

RF Test Report

Report No.: AGC00552181201EE10

PRODUCT DESIGNATION : Smart Phone
BRAND NAME : CUBOT
MODEL NAME : QUEST
APPLICANT : Shenzhen Huafurui Technology Co., Ltd.
DATE OF ISSUE : Feb. 13, 2019
STANDARD(S) : EN 301 908-1 V11.1.1 (2016-07)
: EN 301 908-13 V11.1.2 (2017-07)
REPORT VERSION : V1.1

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 04, 2019	Invalid	Initial release
V1.1	1 st	Feb. 13, 2019	Valid	Revise report

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TABLE OF CONTENTS

1. TEST REPORT CERTIFICATION.....	7
2. GENERAL INFORMATION.....	8
2.1. DESCRIPTION OF EUT	8
2.2. TYPE OF PICS/PIXIT INFORMATION.....	10
3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION.....	12
4. MEASUREMENT UNCERTAINTY.....	14
5. TEST RESULT	15
5.1. APPLIED REFERENCE DOCUMENTS	15
5.2. TEST ENVIRONMENT/CONDITIONS	15
5.3. ITEMS USED IN THE TEST RESULTS LIST	16
5.4. TEST RESULTS LIST	17
Appendix A for Band 1.....	24
1. Transmitter Maximum Output Power	24
2. Transmitter Minimum Output Power	25
3. Transmitter Spectrum Emission Mask	26
4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)	46
5. Transmitter Spurious Emissions	66
6. Receiver Spurious Emissions	168
7. Radiated spurious emissions - MS in idle mode	172
8. Receiver Adjacent Channel Selectivity (ACS)	173
9. Receiver blocking characteristics	174

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10. Receiver Spurious Response	176
11. Receiver Intermodulation Characteristics	177
12. Receiver Reference Sensitivity Level	178
Appendix B for Band 3.....	179

1. Transmitter Maximum Output Power	179
2. Transmitter Minimum Output Power	181
3. Transmitter Spectrum Emission Mask	182
4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)	209
5. Transmitter Spurious Emissions	236
6. Receiver Spurious Emissions	381
7. Radiated spurious emissions - MS in idle mode	385
8. Receiver Adjacent Channel Selectivity (ACS)	386
9. Receiver blocking characteristics	387
10. Receiver Spurious Response	389
11. Receiver Intermodulation Characteristics	390
12. Receiver Reference Sensitivity Level	391

Appendix C for Band 7.....	392
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1. Transmitter Maximum Output Power	392
2. Transmitter Minimum Output Power	393
3. Transmitter Spectrum Emission Mask	394
4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)	414

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5. Transmitter Spurious Emissions	434
6. Receiver Spurious Emissions	535
7. Radiated spurious emissions - MS in idle mode	539
8. Receiver Adjacent Channel Selectivity (ACS)	540
9. Receiver blocking characteristics	541
10. Receiver Spurious Response	543
11. Receiver Intermodulation Characteristics	544
12. Receiver Reference Sensitivity Level	545
Appendix D for Band 8.....	546
1. Transmitter Maximum Output Power	546
2. Transmitter Minimum Output Power	548
3. Transmitter Spectrum Emission Mask	549
4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)	569
5. Transmitter Spurious Emissions	589
6. Receiver Spurious Emissions	744
7. Radiated spurious emissions - MS in idle mode	748
8. Receiver Adjacent Channel Selectivity (ACS)	749
9. Receiver blocking characteristics	750
10. Receiver Spurious Response	752
11. Receiver Intermodulation Characteristics	753
12. Receiver Reference Sensitivity Level	754

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Appendix E for Band 20..... 755

1. Transmitter Maximum Output Power	755
2. Transmitter Minimum Output Power	756
3. Transmitter Spectrum Emission Mask	757
4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)	778
5. Transmitter Spurious Emissions	798
6. Receiver Spurious Emissions	895
7. Radiated spurious emissions - MS in idle mode	899
8. Receiver Adjacent Channel Selectivity (ACS)	900
9. Receiver blocking characteristics	901
10. Receiver Spurious Response	903
11. Receiver Intermodulation Characteristics	904
12. Receiver Reference Sensitivity Level	905

APPENDIX F. RADIATED SPURIOUS EMISSIONS TEST RESULT 906

APPENDIX G: PHOTOGRAPHS OF TEST SETUP 926

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1. TEST REPORT CERTIFICATION

Applicant	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Manufacturer	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Product Designation	Smart Phone
Brand Name	CUBOT
Test Model	QUEST
Date of test	Dec. 12, 2018 to Jan. 03, 2019
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-EC-LTE2/RF

We, Attestation of Global Compliance (Shenzhen) Co., Ltd., for compliance with the requirements set forth in the European Standard ETSI EN 301 908-1/-13. The results of testing in this report apply to the product system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By

Donjon Huang
 Donjon Huang(Huang Dongyang)

Jan. 03, 2019

Reviewed By

Bart Xie
 Bart Xie(Xie Xiaobin)

Feb. 13, 2019

Approved By

Forrest Lei
 Forrest Lei(Lei Yonggang)
 Authorized Officer

Feb. 13, 2019

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2. GENERAL INFORMATION

2.1. DESCRIPTION OF EUT

2.1.1. FINAL EQUIPMENT BUILD STATUS

Details of technical specification refer to the description in follows:

Product Name	Smart Phone
Brand Name	CUBOT
Test Model	QUEST
Product Type	LTE
Hardware Version	A799_MAIN_PCB_V1.1
Software Version	CUBOT_CUBOT_QUEST_8123C_V01_20181122
LTE Support Band	<input checked="" type="checkbox"/> FDD Band 1 <input checked="" type="checkbox"/> FDD Band 3 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 8 <input checked="" type="checkbox"/> FDD Band 20 <input type="checkbox"/> TDD Band 33 <input type="checkbox"/> TDD Band 34 <input type="checkbox"/> TDD Band 38 <input type="checkbox"/> TDD Band 40 <input type="checkbox"/> TDD Band 42 <input type="checkbox"/> TDD Band 43 (EU Bands) <input checked="" type="checkbox"/> FDD Band 2 <input checked="" type="checkbox"/> FDD Band 4 <input checked="" type="checkbox"/> FDD Band 5 <input checked="" type="checkbox"/> FDD Band 17 <input checked="" type="checkbox"/> FDD Band 12 <input type="checkbox"/> FDD Band 26 <input type="checkbox"/> TDD Band 41 (Non-EU Bands)
TX Frequency Range	FDD Band 1: 1920 MHz – 1980 MHz FDD Band 3: 1710 MHz – 1785 MHz FDD Band 7: 2500 MHz – 2570 MHz FDD Band 8: 880 MHz – 915 MHz FDD Band 20: 832 MHz – 862 MHz
RX Frequency Range	FDD Band 1: 2110 MHz – 2170 MHz FDD Band 3: 1805 MHz – 1880 MHz FDD Band 7: 2620 MHz – 2690 MHz FDD Band 8: 925 MHz – 960 MHz FDD Band 20: 791 MHz – 821 MHz
Modulation Mode	QPSK/16QAM
Antenna Type	PIFA Antenna
LTE Antenna Gain	Band 1:-0.83dBi, Band 3:-0.65dBi, Band 7:1.0dBi, Band 8:-0.75dBi, Band 20:-3.12dBi;
Diversity Antenna Gain	Band 1:-0.07dBi, Band 3:0.47dBi, Band 7:-4.42dBi, Band 8:-2.95dBi, Band 20:-4.62dBi;
Power Class	FDD Band 1:3, FDD Band 3:3, FDD Band 7:3, FDD Band 8:3, FDD Band 20:3
GSM Release Version	N/A
SIM Card Description	There are dual-SIM cards for GSM/WCDMA/LTE.
Diversity Antenna Description	Diversity antenna is only used to receive. Its purpose is to increase sensitivity of LTE. The receiver items test results in the report already contain the diversity antenna test.

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2.1.2. PHOTOGRAPHS OF THE EUT

Please see APPENX A for photographs of the EUT.

2.1.3. IDENTIFICATION OF SAMPLES EUT

The EUT Identity consists of numerical and letter characters (see the table below), the first five numerical characters indicates the Type of the EUT defined by AGC, the next letter character indicates the test sample, and the following two numerical characters indicates the software version of the test sample.

SAMPLE A01

Sample Reference Number	A01
Factory Name	Shenzhen Huafului Technology Co., Ltd.
Test Model	QUEST
Product Type	FDD Band 1, FDD Band 3, FDD Band 7, FDD Band 8, FDD Band 20
Frequency Bands	QPSK/16QAM;

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2.2. TYPE OF PICS/PIXIT INFORMATION

Item	Operating bands RF Baseline Implementation capabilities	Support	Allowed Value	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	YES	Yes/No	Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	NO	Yes/No	Band 2
3	UE Power Class 3 (+23 dBm)	YES	Yes/No	--
4	Frequency band: 1710-1785, 1805-1880 MHz	YES	Yes/No	Band 3
5	Frequency band: 1710-1755, 2110-2155 MHz	NO	Yes/No	Band 4
6	Frequency band: 824-849, 869-894 MHz	NO	Yes/No	Band 5
7	Frequency band: 830-840, 875-885 MHz	NO	Yes/No	Band 6
8	Frequency band: 2500-2570, 2620-2690 MHz	YES	Yes/No	Band 7
9	Frequency band: 880-915, 925-960 MHz	YES	Yes/No	Band 8
10	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	NO	Yes/No	Band 9
11	Frequency band: 1710-1770, 2110-2170 MHz	NO	Yes/No	Band 10
12	Frequency band: 1427.9-1452.9, 1475.9-1500.9 MHz	NO	Yes/No	Band 11
13	Frequency band: 699-716, 729-746 MHz	NO	Yes/No	Band 12
14	Frequency band: 777-787, 746-756 MHz	NO	Yes/No	Band 13
15	Frequency band: 788-798, 758-768 MHz	NO	Yes/No	Band 14
16	Reserved	NO	Yes/No	Band 15
17	Reserved	NO	Yes/No	Band 16
18	Frequency band: 704 – 716 , 734 – 746 MHz	NO	Yes/No	Band 17
19	Frequency band: 815-830, 860-875 MHz	NO	Yes/No	Band 18
20	Frequency band: 830-845, 875-890 MHz	NO	Yes/No	Band 19
21	Frequency band: 832-862, 791-821 MHz	YES	Yes/No	Band 20
22	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	NO	Yes/No	Band 21
23	Frequency band: 3410-3490, 3510-3590 MHz	NO	Yes/No	Band 22
24	Frequency band: 2000-2020, 2180-2200 MHz	NO	Yes/No	Band 23

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25	Frequency band: 1626.5-1660.5,1525-1559 MHz	NO	Yes/No	Band 24
26	Frequency band: 1850-1915,1930-1995 MHz	NO	Yes/No	Band 25
27	Frequency band: 814-849,859-894 MHz	NO	Yes/No	Band 26
28	Frequency band: 807-824,852-869 MHz	NO	Yes/No	Band 27
29	Frequency band: 703-748,758-803 MHz	NO	Yes/No	Band 28
30	Frequency band: N/A,DL: 717-728 MHz	NO	Yes/No	Band 29
31	Frequency band:2305-2315, 2350- 2360 MHz	NO	Yes/No	Band 30
32	Frequency band:452.5-457.5, 462.5 - 467.5MHz	NO	Yes/No	Band 31
33				...
34	Frequency band:1900-1920, 1900-1920 MHz	NO	Yes/No	Band 33
35	Frequency band:2010-2025, 2010-2025 MHz	NO	Yes/No	Band 34
36	Frequency band:18501910, 1850-1910 MHz	NO	Yes/No	Band 35
37	Frequency band:1930-1990, 1930-1990 MHz	NO	Yes/No	Band 36
38	Frequency band:19101930, 1910-1930 MHz	NO	Yes/No	Band 37
39	Frequency band:2570-2620, 2570-2620 MHz	NO	Yes/No	Band 38
40	Frequency band:1880-1920, 1880-1920 MHz	NO	Yes/No	Band 39
41	Frequency band:2300-2400, 2300-2400 MHz	NO	Yes/No	Band 40
42	Frequency band:2496-2690, 2496- 2690 MHz	NO	Yes/No	Band 41
43	Frequency band:3400-3600, 3400-3600 MHz	NO	Yes/No	Band 42
44	Frequency band:3600-3800, 3600-3800 MHz	NO	Yes/No	Band 43
45	Frequency band:703-803, 703-803 MHz	NO	Yes/No	Band 44

Note 1: Band 6 is not applicable.

Note 2: Restricted to E-UTRA operation when carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

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3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

LIST OF EQUIPMENTS USED OF AGC&NETC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Mar. 01, 2018	Feb. 28, 2019
2	Wireless communication test CMW500	R&S	120909	July 13, 2018	July 12, 2019
3	Wireless communication test set 8960	Agilent	GB46200384	July 13, 2018	July 12, 2019
4	Power Splitter 7100LC	KALMUS	04-02/17-06-001	June 12, 2018	June 11, 2019
5	Attenuator	JFW	50FHC-006-50	June 12, 2018	June 11, 2019
6	Vector Signal Generator SMU200A	R&S	104332	Sep. 20, 2018	Sep. 19, 2019
7	Wireless Communications Test Set 8960	AGILENT	GB42361316	Mar. 01, 2018	Feb. 28, 2019
8	EXA Signal Analyzer N9010A	Agilent	MY53470504	Dec. 06, 2018	Dec. 05, 2019
9	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep. 20, 2018	Sep. 19, 2019
10	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep. 20, 2018	Sep. 19, 2019
11	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Mar. 01, 2018	Feb. 28, 2019
12	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
13	RF SHIELD BOX	R&S	1204.7008K02-1 02590-EE	Mar. 01, 2018	Feb. 28, 2019
14	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Aug. 19, 2018	Aug. 18, 2019
15	Vibration Source SCU-200	SUSHI	3000-40-07	Mar. 01, 2018	Feb. 28, 2019
16	Attenuator	JFW	50FHC-006-50	June 12, 2018	June 11, 2019
17	EMI Test Receiver	ESCI	100694	June 12, 2018	June 11, 2019
18	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	Mar. 01, 2018	Feb. 28, 2020

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No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
19	Broadband Antenna VULB9168	SCHWARZBECK	D69250	Mar. 01, 2018	Feb. 28, 2020
20	Triple Loop Antenna RF300	LAPLACE	N/A	Mar. 01, 2018	Feb. 28, 2020
21	Artificial Mains Network ENV4200	R&S	101116	July 13, 2018	July 12, 2019
22	Artificial Mains Network ENV216	R&S	101242	July 13, 2018	July 12, 2019
23	Filter Bank Notch 1(880-915MHz)	MICRO-TRONIC S	010	Mar. 01, 2018	Feb. 28, 2019
24	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONIC S	009	Mar. 01, 2018	Feb. 28, 2019
25	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONIC S	008	Mar. 01, 2018	Feb. 28, 2019

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4. MEASUREMENT UNCERTAINTY

Parameter	Conditions	Test System Uncertainty
Transmitter Maximum Output power	--	±0,7 dB
Transmitter spectrum emissions mask	--	±1,5 dB
Transmitter spurious emissions	9 kHz < f ≤ 4 GHz: ±2,0 dB 4 GHz < f ≤ 12,75 GHz: ±4,0 dB	±2,0 dB ±4,0 dB
Transmitter Minimum output power	--	±1,0 dB
Receiver Adjacent Channel Selectivity(ACS)	--	±1,1 dB
Receiver Blocking characteristics	1 MHz < finterferer ≤ 3 GHz 3 GHz < finterferer ≤ 12,75 GHz	±1,3 dB ±3,2 dB
Receiver spurious response	1 MHz < finterferer ≤ 3 GHz 3 GHz < finterferer ≤ 12,75 GHz	±1,3 dB ±3,2 dB
Receiver intermodulation characteristics	--	±1,4 dB
Receiver spurious emissions	30 MHz ≤ f ≤ 4,0 GHz: ±2,0 dB 4 GHz < f ≤ 12,75 GHz: ±4,0 dB	±2,0 dB ±4,0 dB
Transmitter adjacent channel leakage power ratio	--	±0,8 dB

NOTE 1: For RF tests it should be noted that the uncertainties in table 5.2-1 apply to the test system operating into a nominal 50 Ω load and do not include system effects due to mismatch between the EUT and the test system.

NOTE 2: If the test system for a test is known to have a measurement uncertainty greater than that specified in table 5.2-1, this equipment can still be used provided that an adjustment is made follows: any additional uncertainty in the test system over and above that specified in table 5.2-1 should be used to tighten the test requirements - making the test harder to pass (for some tests, e.g. receiver tests, this may require modification of stimulus signals). This procedure will ensure that a test system not compliant with table 5.2-1 does not increase the probability of passing an EUT that would otherwise have failed a test if a test system compliant with table 5.2-1 had been used.

5. TEST RESULT

5.1. APPLIED REFERENCE DOCUMENTS

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements
2	ETSI EN 301 908-13	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)

Specific reference documents for testing:

No.	Identity	Document Title
3	ETSI TS 136 521-1	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing

5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	15 ... 35 °C
Relative Humidity	20 ... 75 %
Air Pressure	980 ... 1020 hPa
Adapter Test Model Name	QUEST
Details of Power Supply(Rated Input)	AC100-240V, 50/60Hz,0.3A
Details of Power Supply(Rated Output)	DC5.0V,2000mA
Extreme Temperature	Low Temperature (TL) = -20°C Normal Temperature(TN) = 25 °C High Temperature (TH) = +55°C
Extreme Voltage of the EUT	Low Voltage = DC 3.45V Normal Voltage= DC 3.85V High Voltage = DC 4.40V

Note: The Limit Voltage 4.40V was declared by manufacturer,
The EUT couldn't be operate normally with higher voltage.

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5.3. ITEMS USED IN THE TEST RESULTS LIST

Terms in the column “Verdict” for the test results list of the section:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
INC.	EUT did not pass and did not fail this test case, therefore the verdict is inconclusive
FOUR-FAITH	Test case not applicable for the EUT, see the column “Note” for detailed

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5.4. TEST RESULTS LIST

ETSI EN 301 908-1

Test case	Description	Condition	FDD Band 1		FDD Band 3		FDD Band 7	
			Sample	Result	Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS	A01	PASS

Test case	Description	Condition	FDD Band 8		FDD Band 20	
			Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS

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ETSI EN 301 908-13

Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 3	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 20MHz	NTC	A01	PASS

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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 20MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	20MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 20MHz	NTC	A01	PASS

Channel Bandwidths to be tested: lowest, 1.4 MHz and 20 MHz highest channel bandwidth
 Band 3: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz

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Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 8	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 10MHz	NTC	A01	PASS

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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 10MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	10MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 10MHz	NTC	A01	PASS

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel bandwidth
 Band 8: 1.4MHz/3MHz/5MHz/10MHz

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Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 1		FDD Band 7		FDD Band 20		Remark
				Sample	Result	Sample	Result	Sample	Result	
4.2.2	Transmitter Maximum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.5	Transmitter Minimum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.3	Transmitter Spectrum Emission Mask	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.4	Transmitter Spurious Emissions	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

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4.2.6	Receiver Adjacent Channel	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.7	Receiver Blocking Characteristics	5MHz 20MHz	In band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Out Band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Narrow Band	A01	PASS	A01	PASS	A01	PASS	--
4.2.8	Receiver Spurious Response	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.9	Receiver Intermodulation Characteristics	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.10	Receiver Spurious Emissions	20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.12	Receiver Reference Sensitivity Level	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel 20MHz bandwidth.

Note: 1. Test reports have put the diversity antenna coupled together by the power divider test.

2. The worst test case is SIM Card 1.

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Appendix A for Band 1

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	23.91	Pass
					max	23.85	Pass
				Partial	0	23.86	Pass
					max	23.88	Pass
			Mid range	1	0	23.88	Pass
					max	23.90	Pass
				Partial	0	23.98	Pass
					max	23.93	Pass
			High range	1	0	23.88	Pass
					max	23.84	Pass
				Partial	0	23.88	Pass
					max	23.89	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	23.74	Pass
					max	23.68	Pass
				Partial	0	23.71	Pass
					max	23.71	Pass
			Mid range	1	0	23.75	Pass
					max	23.74	Pass
				Partial	0	23.83	Pass
					max	23.80	Pass
			High range	1	0	23.58	Pass
					max	23.56	Pass
				Partial	0	23.83	Pass
					max	23.71	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Full	0	-49.10	Pass
			Mid range	Full	0	-50.54	Pass
			High range	Full	0	-49.87	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Full	0	-49.11	Pass
			Mid range	Full	0	-49.88	Pass
			High range	Full	0	-48.79	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full		0	PUMAX	Pass		
	16QAM		Low range	Partial	0	PUMAX	Pass

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			Mid range		max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

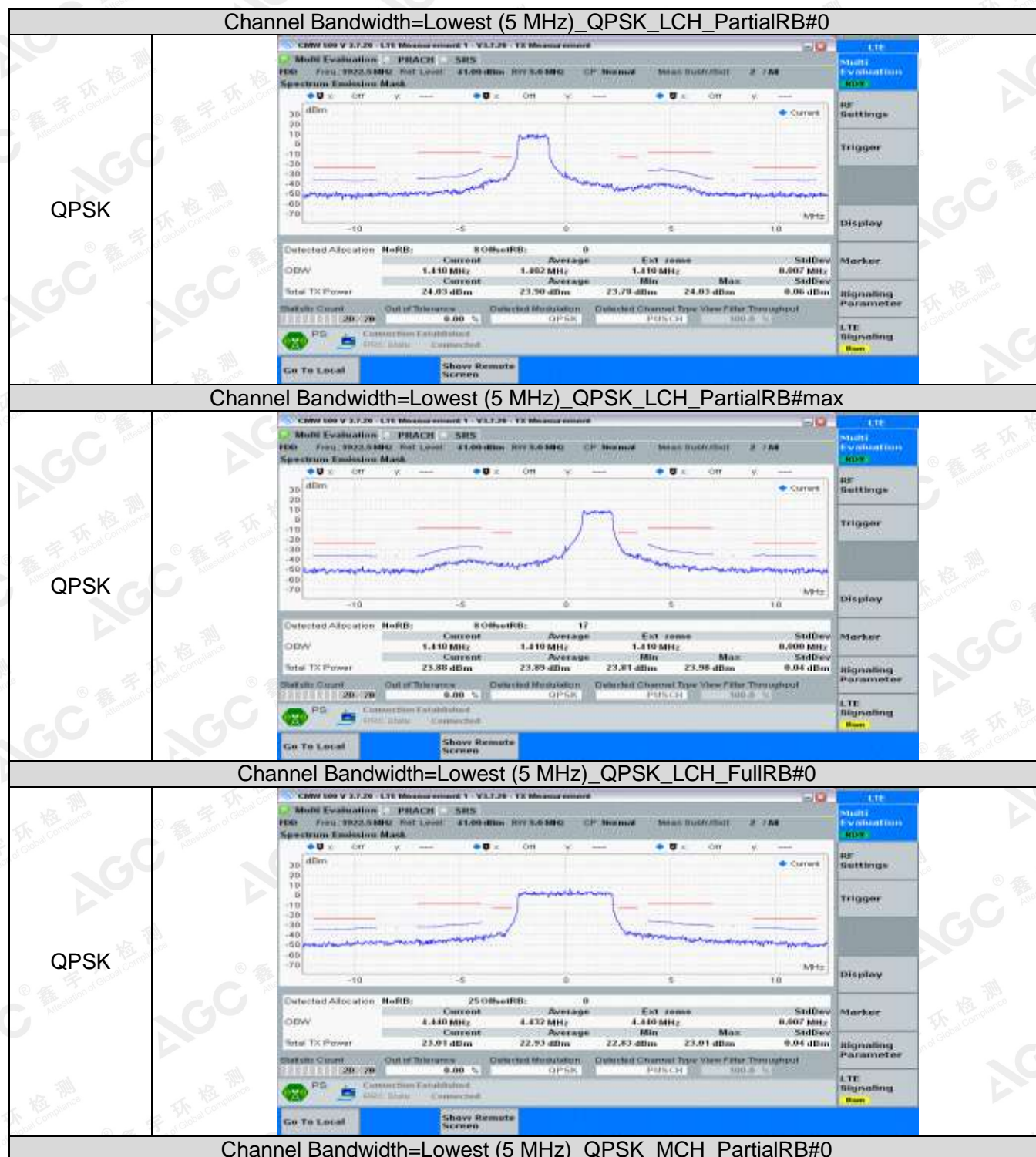
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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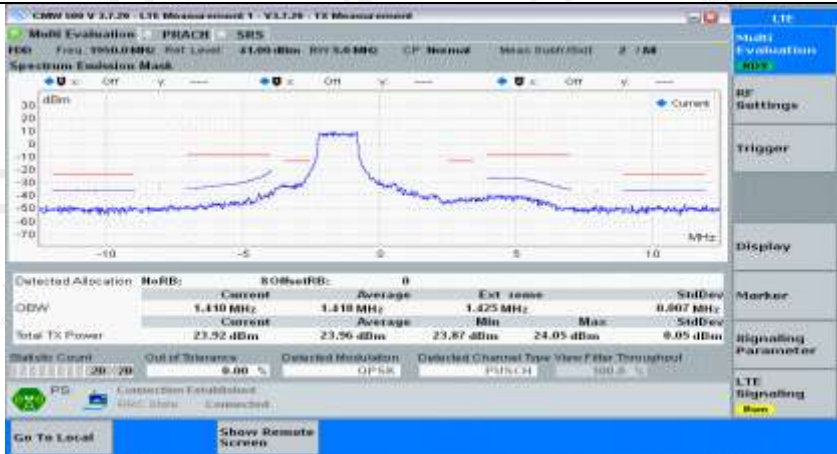
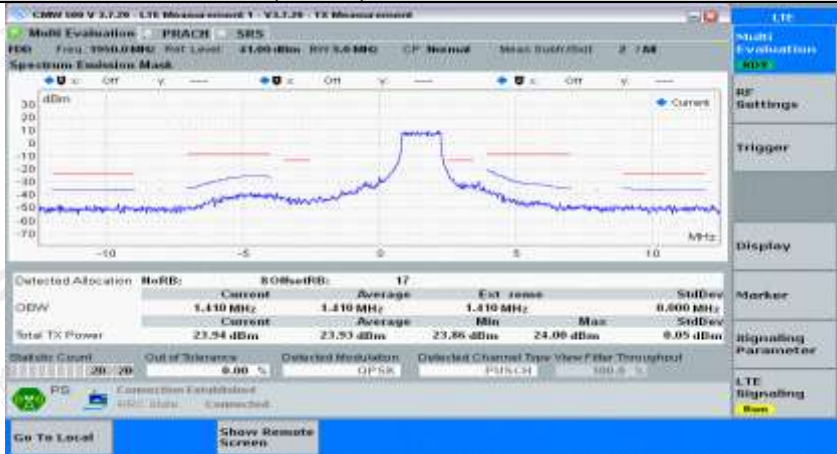
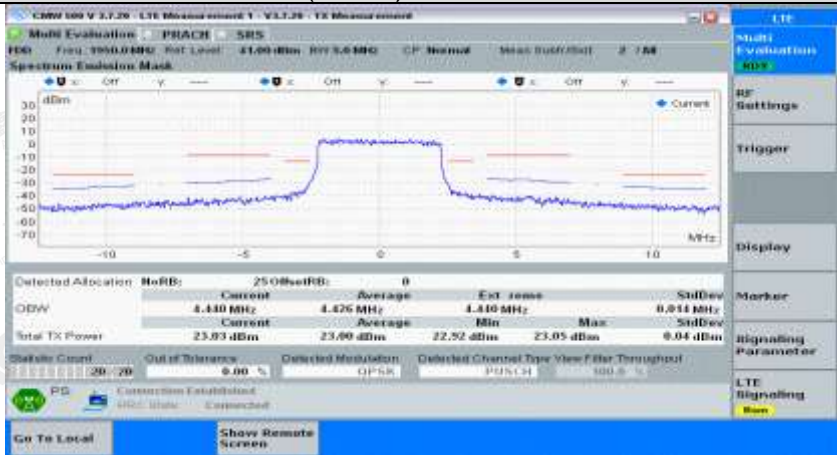
Test Graphs

NTNV

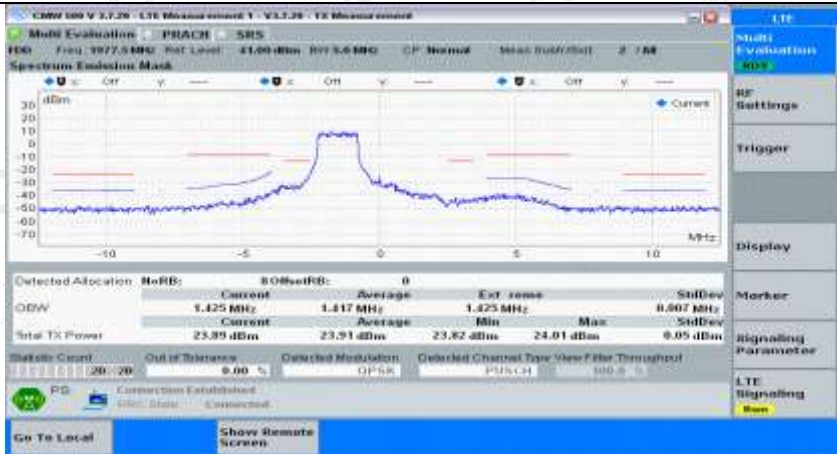
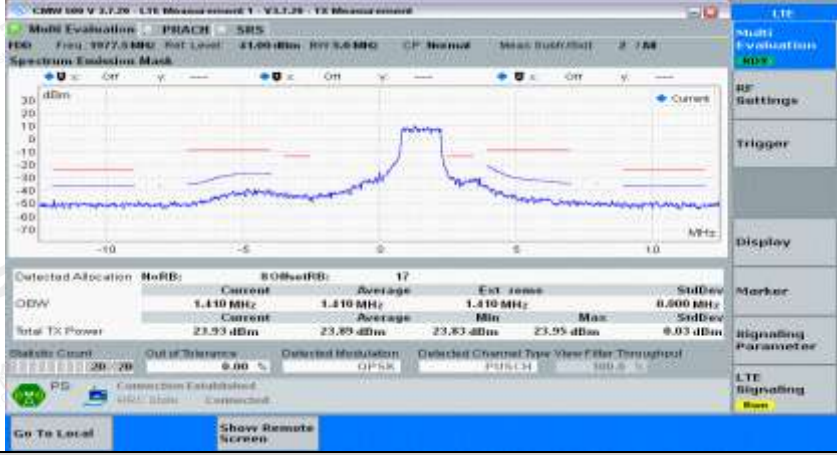
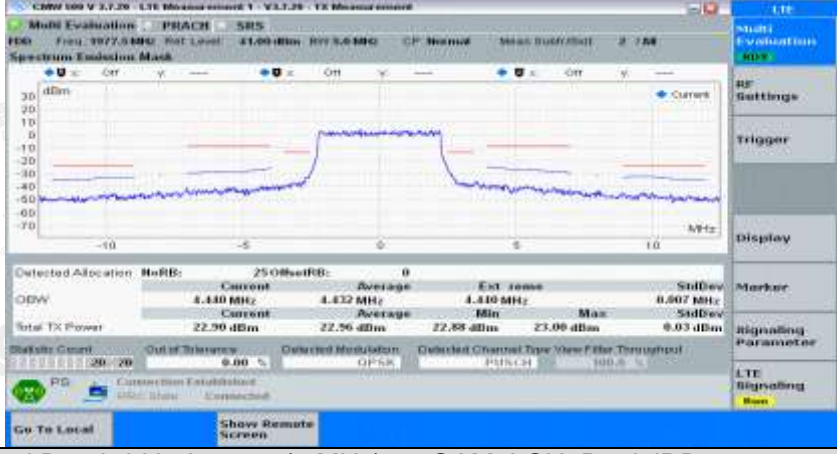
Channel Bandwidth=Lowest (5 MHz)



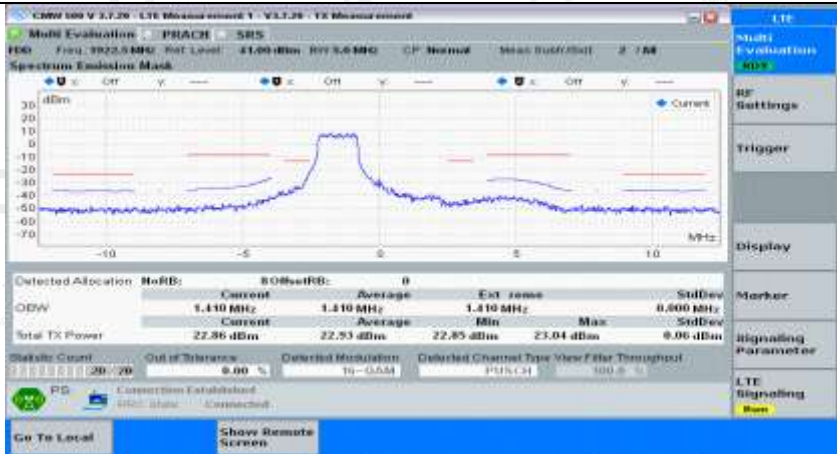
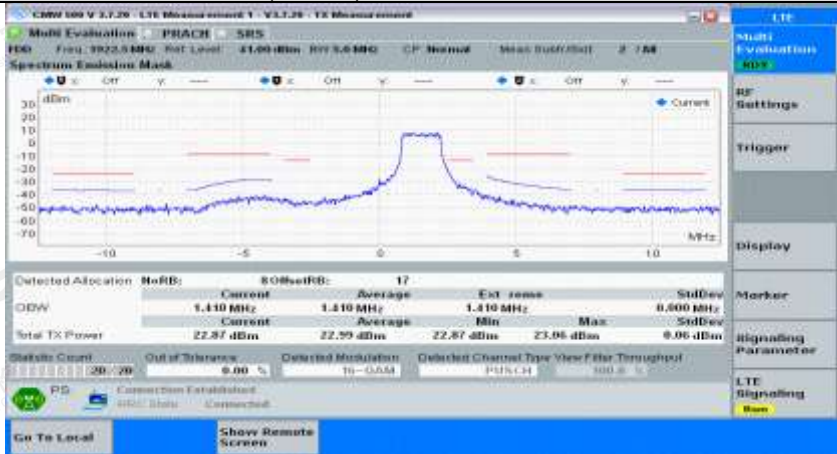
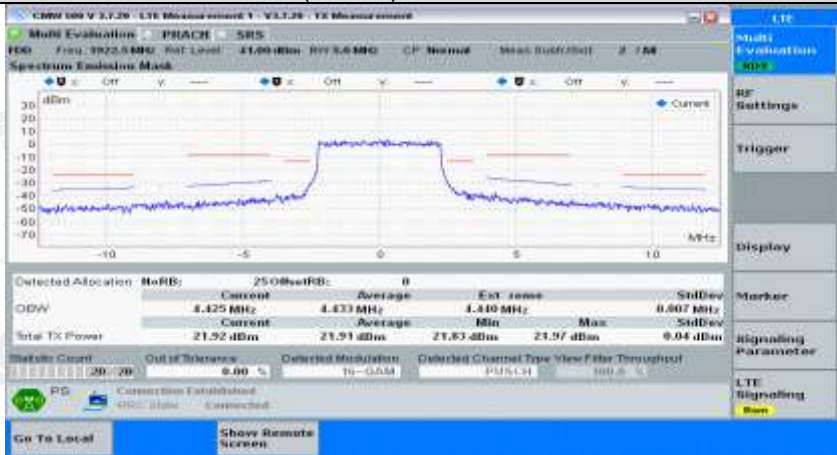
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

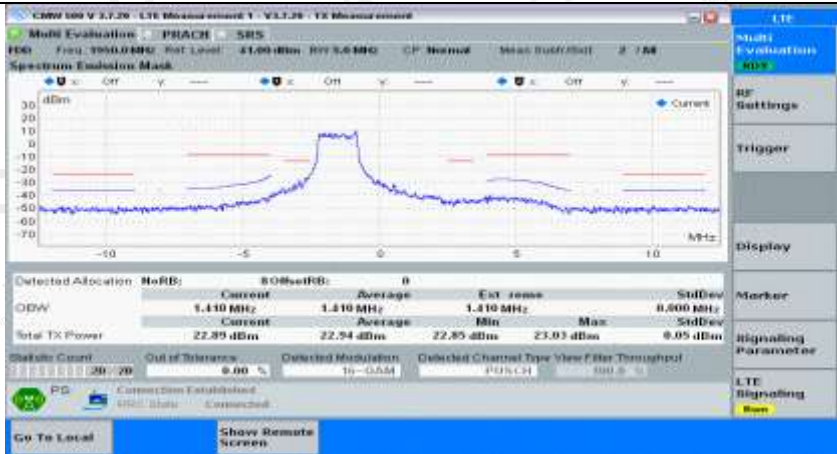
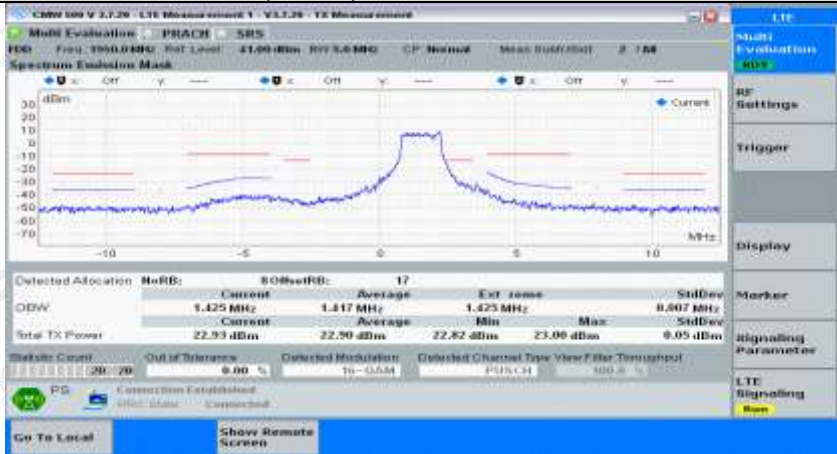
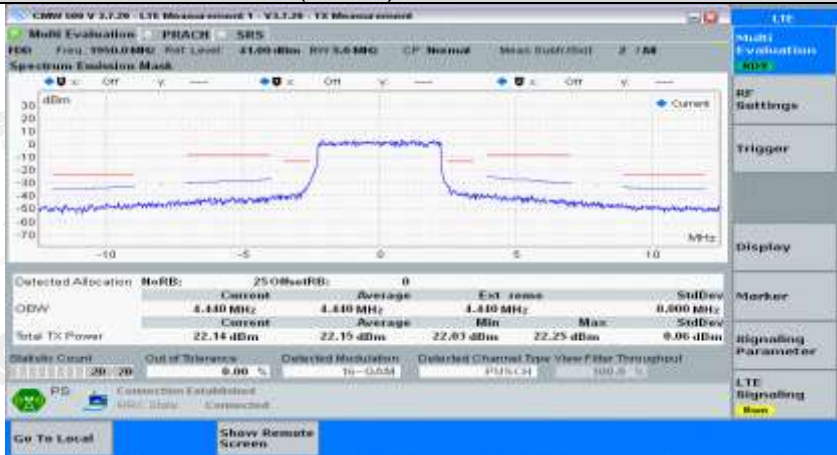
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

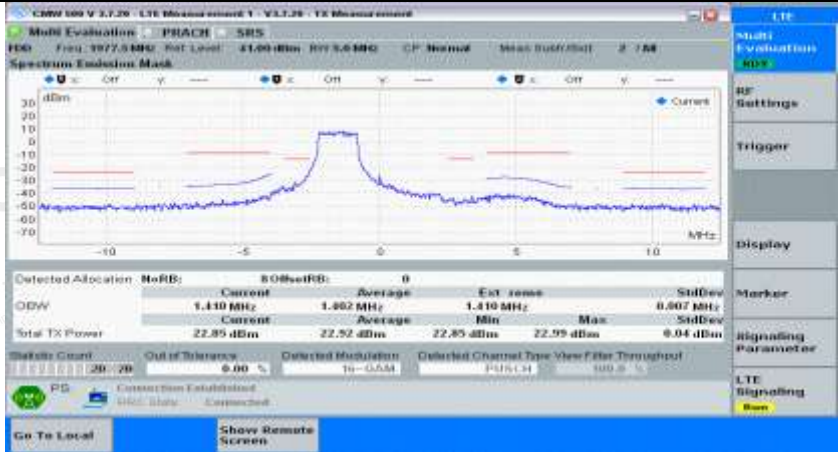
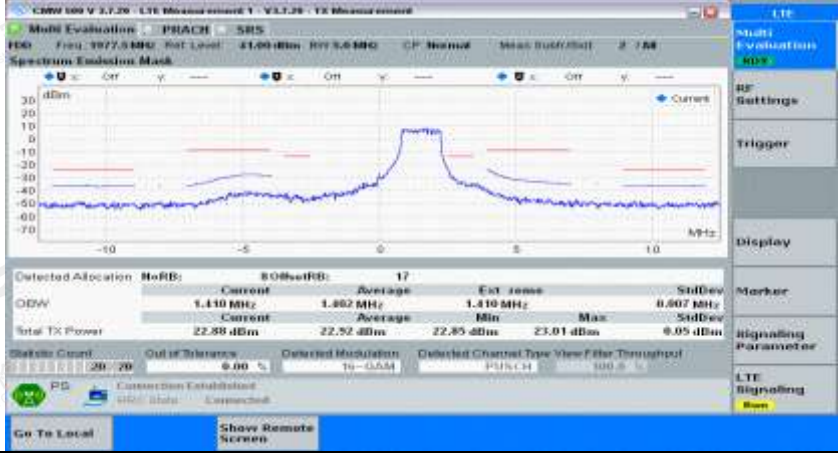
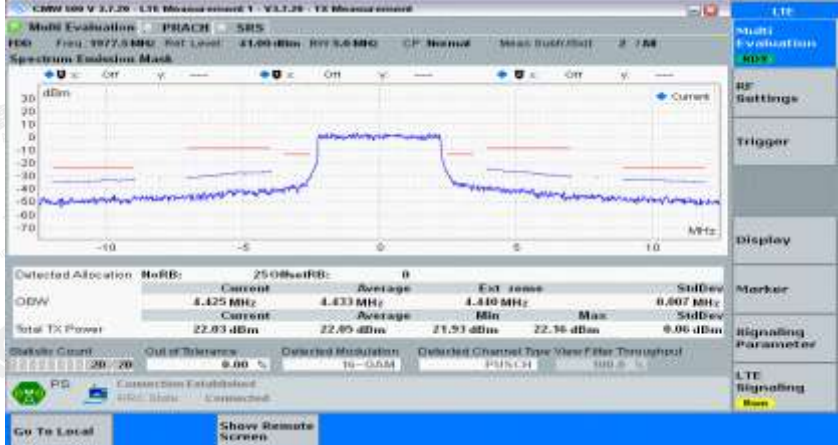
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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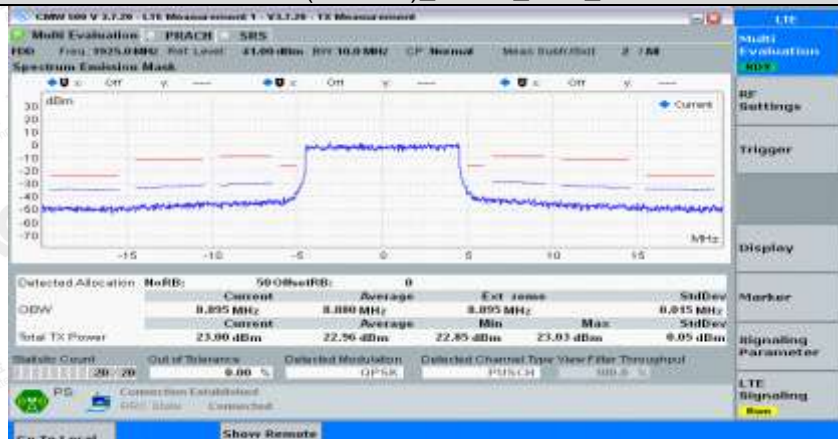
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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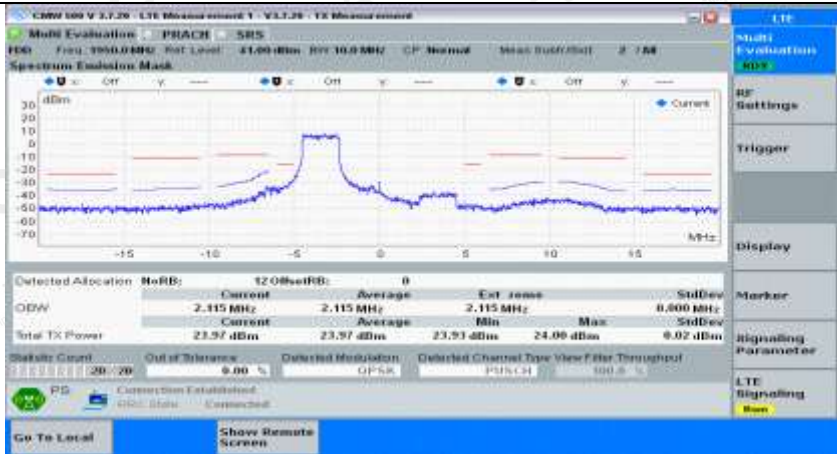
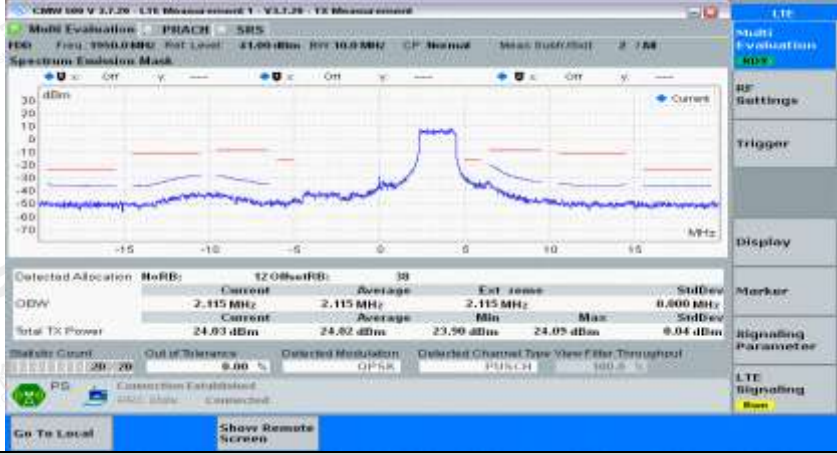
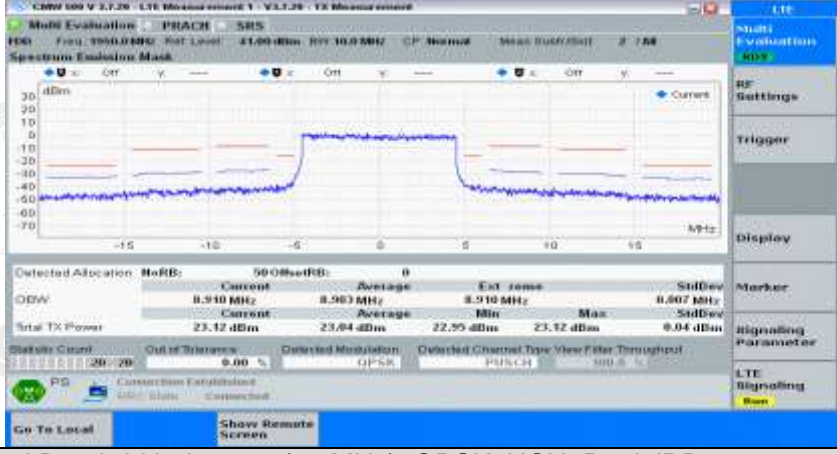
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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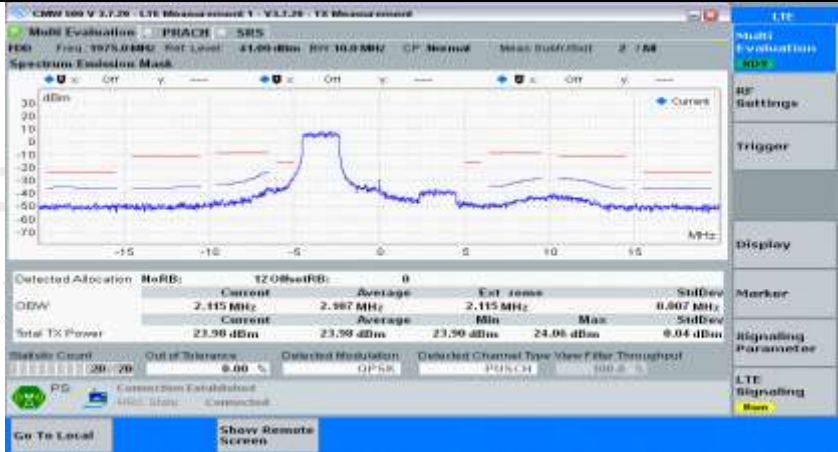
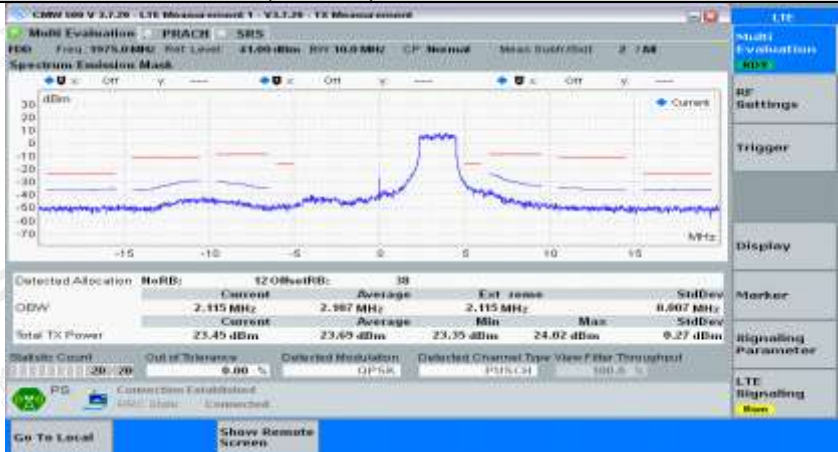
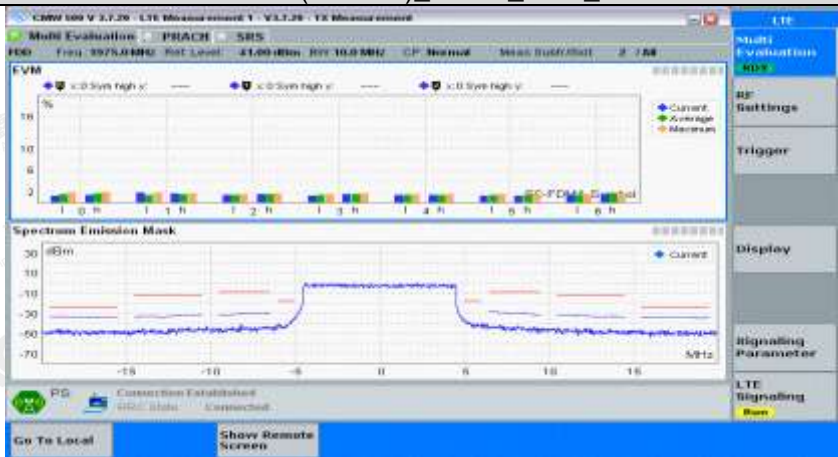
Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0																																											
QPSK																																											
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max																																											
QPSK																																											
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0																																											
QPSK	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB</th><th colspan="2">500RB</th><th colspan="2">IRB</th><th colspan="2">0</th><th colspan="2">Ext. tone</th><th colspan="2">SubBW</th></tr><tr><td>QBW</td><td>8.895 MHz</td><td>Current</td><td>8.880 MHz</td><td>Average</td><td>8.895 MHz</td><td>Min</td><td>8.880 MHz</td><td>Max</td><td>8.895 MHz</td><td>SubBW</td><td>8.895 MHz</td><td>SubBW</td><td>8.895 MHz</td></tr><tr><td>Total TX Power</td><td>23.00 dBm</td><td>Current</td><td>22.96 dBm</td><td>Average</td><td>22.85 dBm</td><td>Min</td><td>23.03 dBm</td><td>Max</td><td>23.03 dBm</td><td>SubBW</td><td>0.05 dBm</td><td>SubBW</td><td>0.05 dBm</td></tr></table>	Detected Allocation		NoRB		500RB		IRB		0		Ext. tone		SubBW		QBW	8.895 MHz	Current	8.880 MHz	Average	8.895 MHz	Min	8.880 MHz	Max	8.895 MHz	SubBW	8.895 MHz	SubBW	8.895 MHz	Total TX Power	23.00 dBm	Current	22.96 dBm	Average	22.85 dBm	Min	23.03 dBm	Max	23.03 dBm	SubBW	0.05 dBm	SubBW	0.05 dBm
Detected Allocation		NoRB		500RB		IRB		0		Ext. tone		SubBW																															
QBW	8.895 MHz	Current	8.880 MHz	Average	8.895 MHz	Min	8.880 MHz	Max	8.895 MHz	SubBW	8.895 MHz	SubBW	8.895 MHz																														
Total TX Power	23.00 dBm	Current	22.96 dBm	Average	22.85 dBm	Min	23.03 dBm	Max	23.03 dBm	SubBW	0.05 dBm	SubBW	0.05 dBm																														
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0																																											

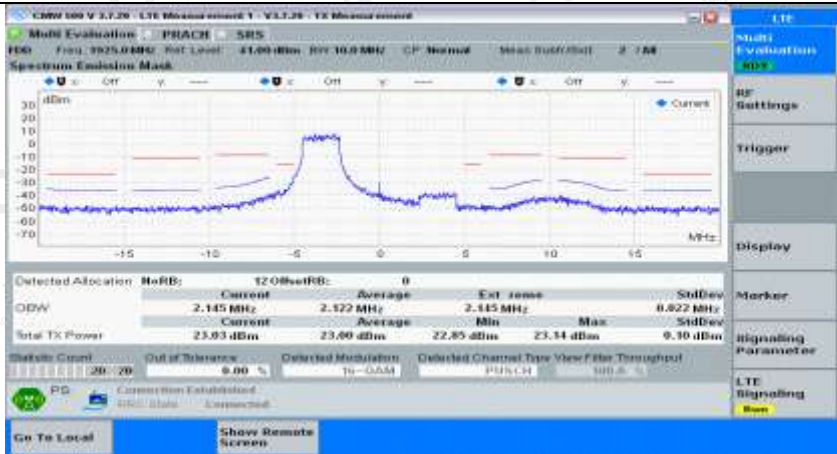
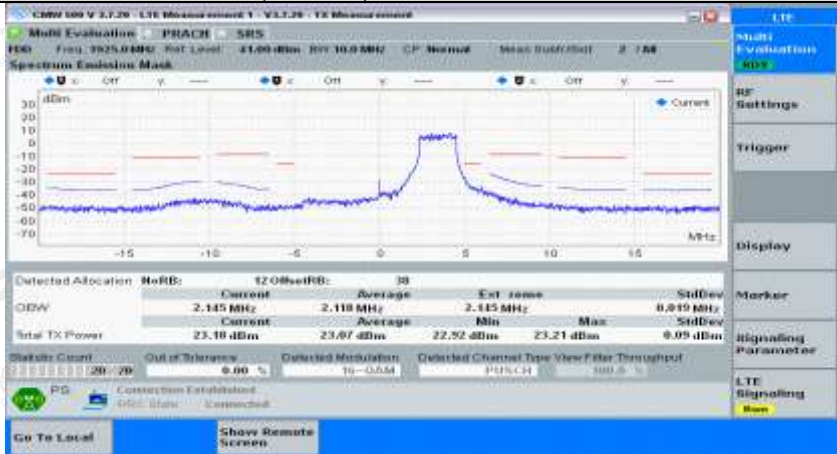
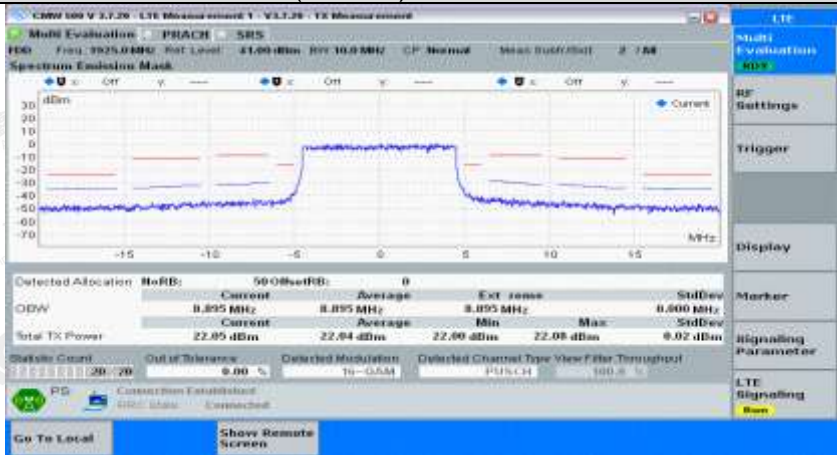
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

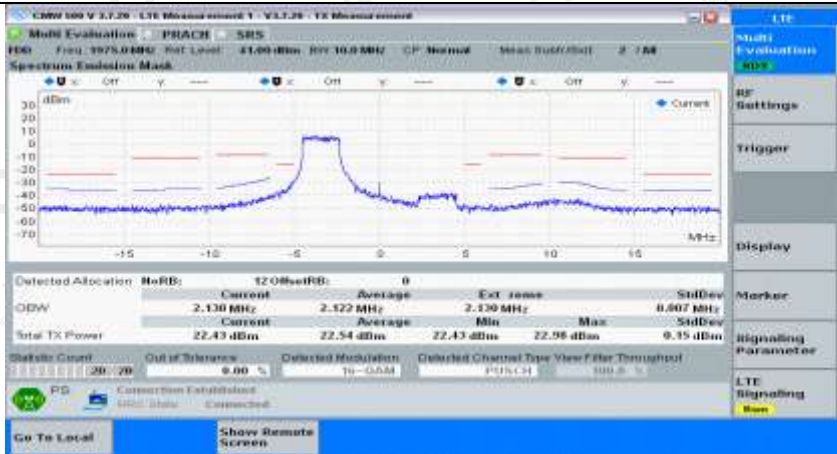
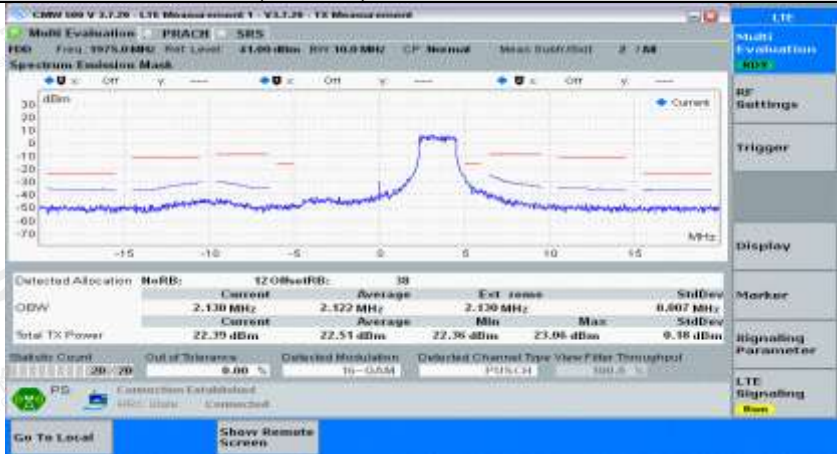
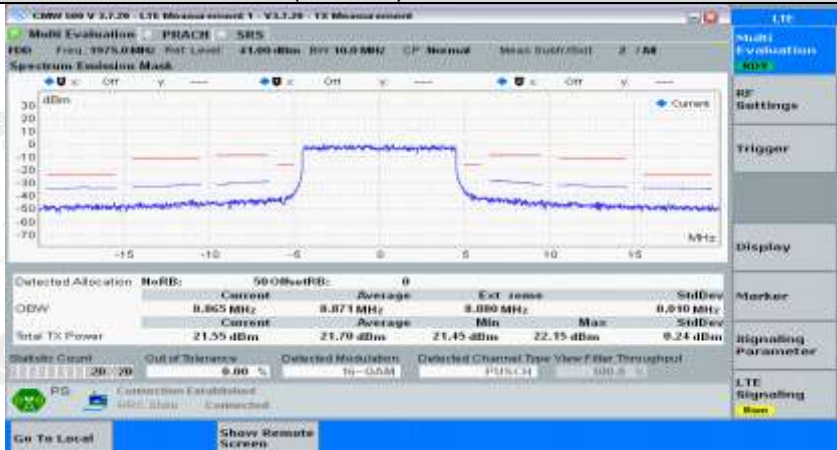
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

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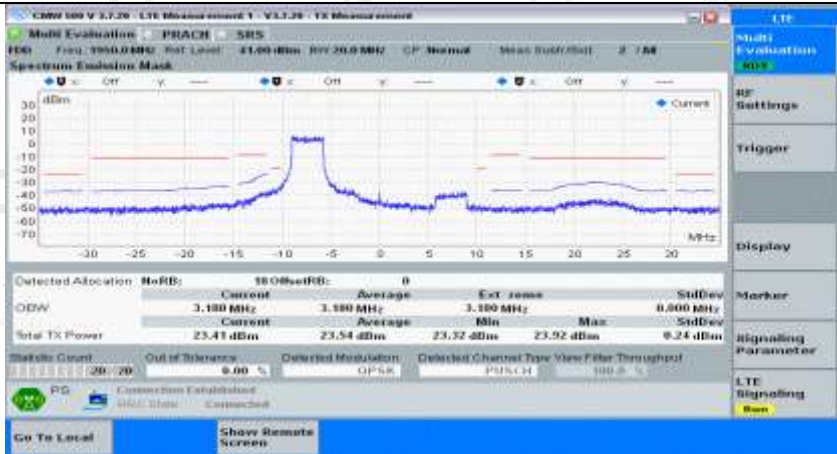
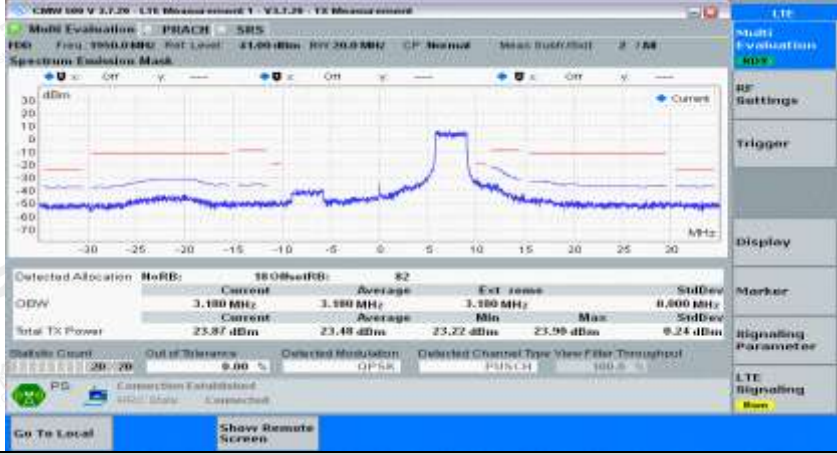

16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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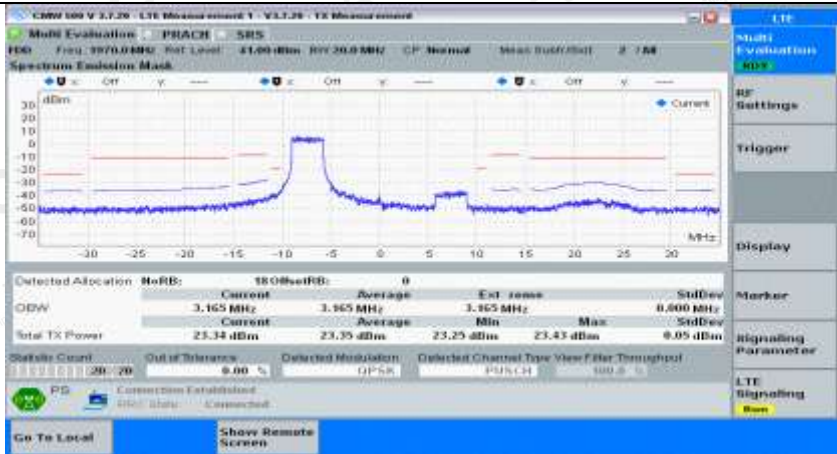
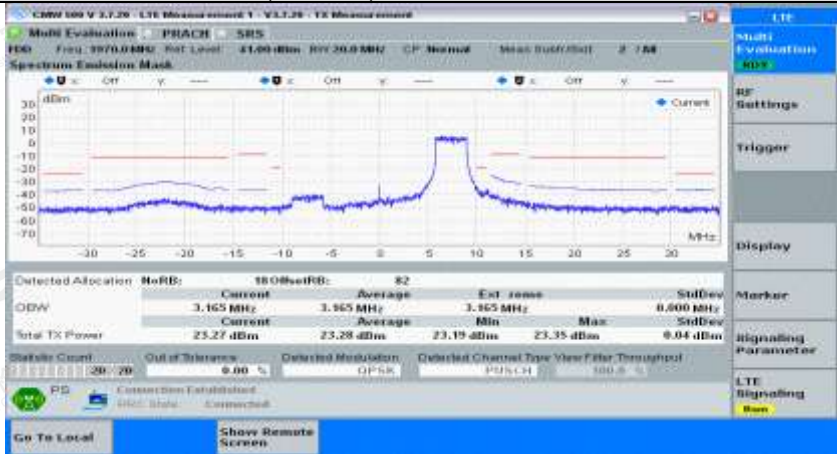
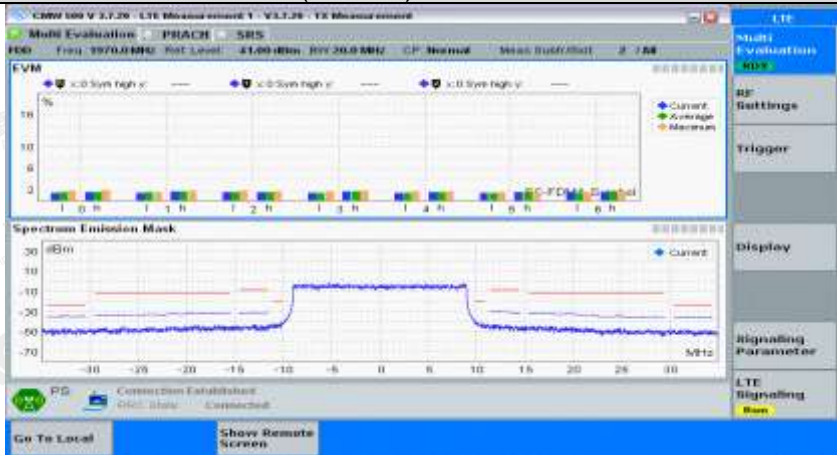
Channel Bandwidth=Highest (20 MHz)

QPSK	<div>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0</div> 																																																
QPSK	<div>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max</div> 																																																
QPSK	<div>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0</div>  <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">HARQ</th><th colspan="2">100.000MHz</th><th colspan="2">0</th><th colspan="2">Ext. sense</th><th colspan="2">Sideband</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th></tr><tr><td>17.730 MHz</td><td>17.778 MHz</td><td>17.730 MHz</td><td>17.778 MHz</td><td>17.730 MHz</td><td>17.778 MHz</td><td>17.730 MHz</td><td>17.778 MHz</td><td>17.730 MHz</td><td>17.778 MHz</td><td>17.730 MHz</td><td>17.778 MHz</td></tr><tr><td>22.37 dBm</td><td>22.80 dBm</td><td>22.37 dBm</td><td>22.80 dBm</td><td>22.37 dBm</td><td>22.80 dBm</td><td>22.37 dBm</td><td>22.80 dBm</td><td>22.37 dBm</td><td>22.80 dBm</td><td>22.37 dBm</td><td>22.80 dBm</td></tr></table>	Detected Allocation		HARQ		100.000MHz		0		Ext. sense		Sideband		Current	Average	Current	Average	Min	Max	Min	Max	Min	Max	Min	Max	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm
Detected Allocation		HARQ		100.000MHz		0		Ext. sense		Sideband																																							
Current	Average	Current	Average	Min	Max	Min	Max	Min	Max	Min	Max																																						
17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz	17.730 MHz	17.778 MHz																																						
22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm	22.37 dBm	22.80 dBm																																						
	<div>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0</div>																																																

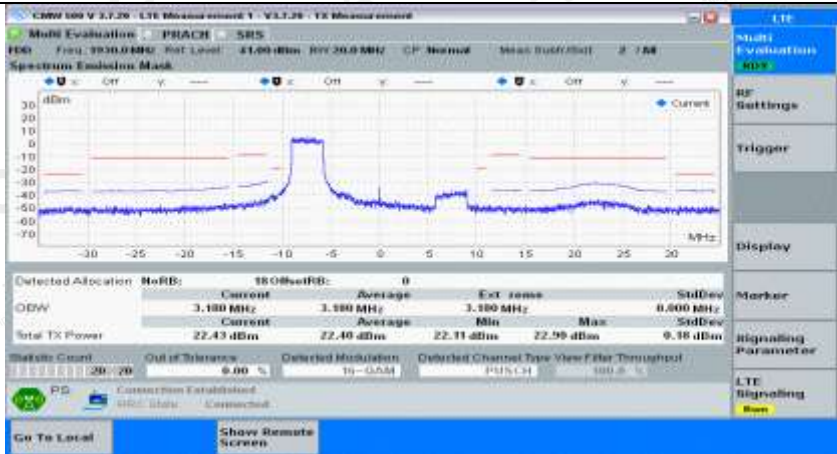
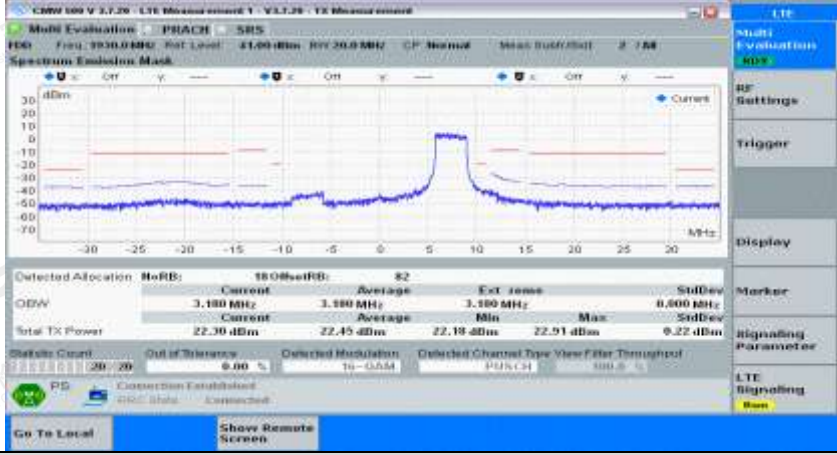
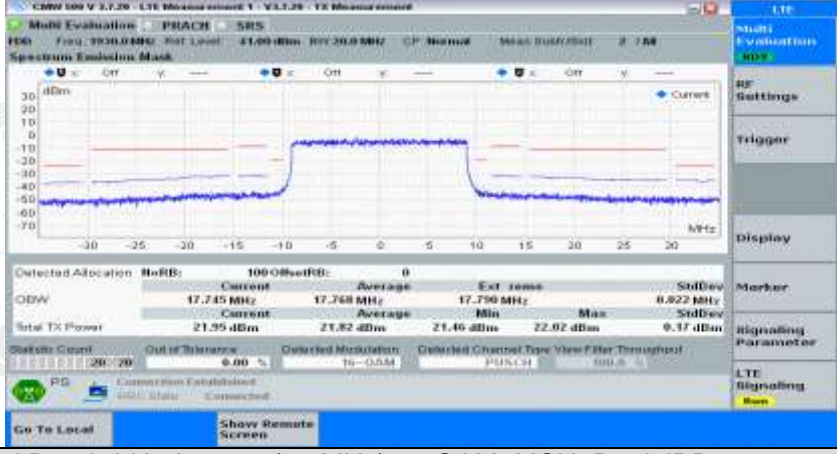
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

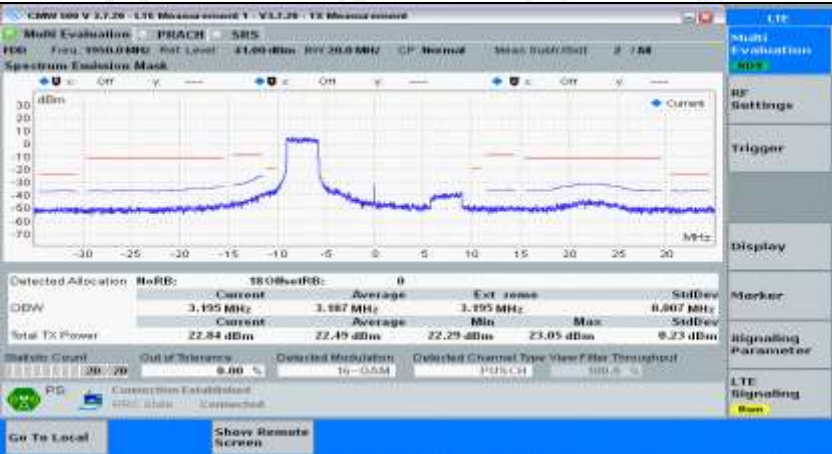
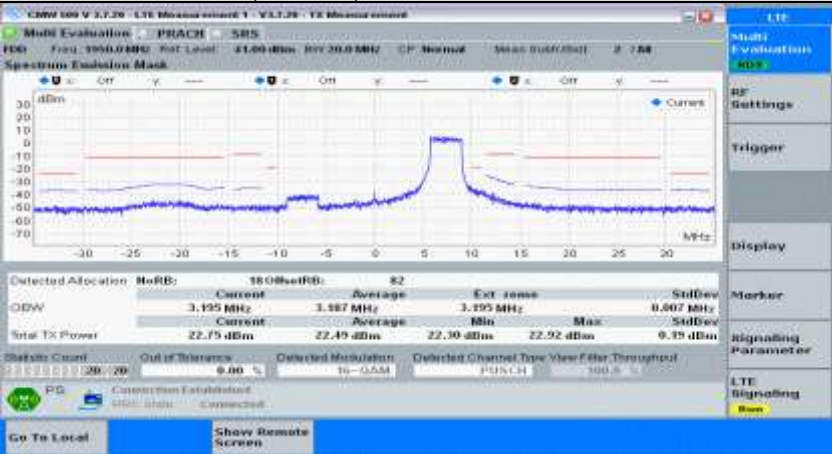
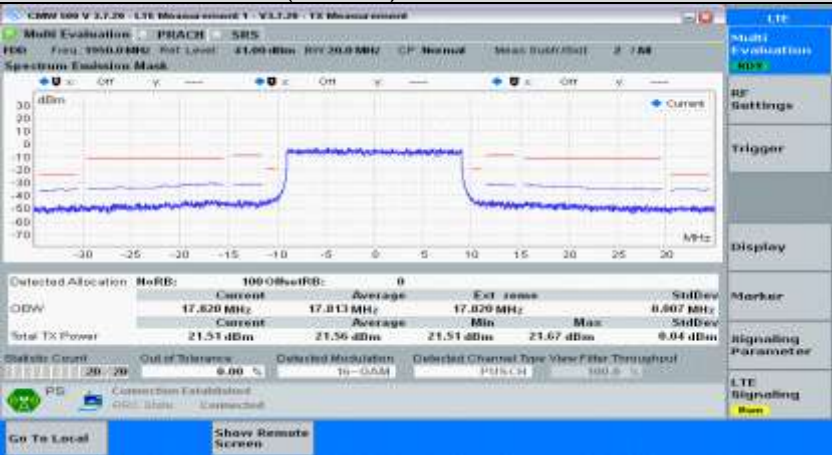
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

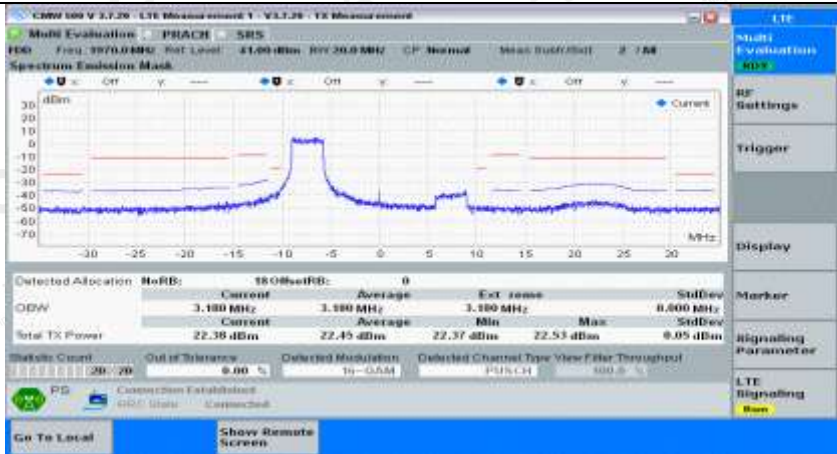
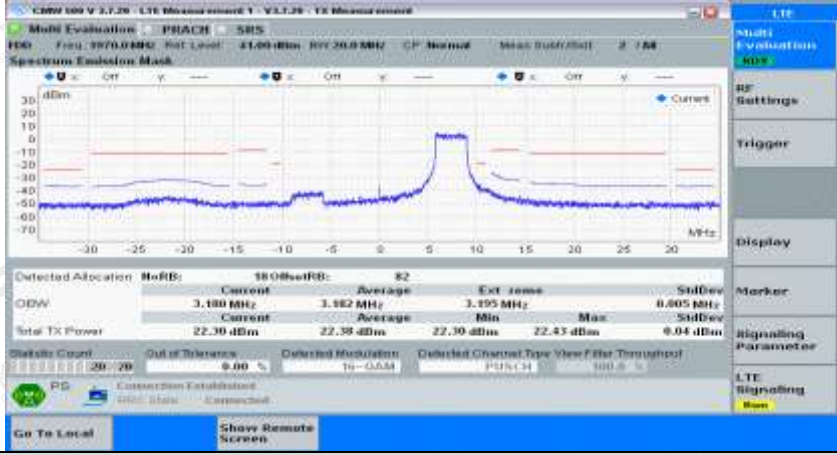
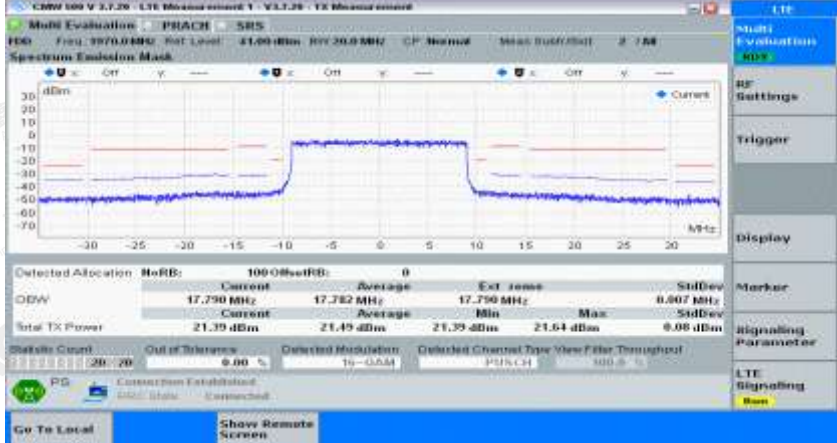
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	High range		Partial	0	PUMAX	Pass	
				max	PUMAX	Pass	
			Full	0	PUMAX	Pass	
				16QAM	Low range	Partial	0
	max		PUMAX				Pass
	Full		0			PUMAX	Pass
	Mid range		Partial		0	PUMAX	Pass
					max	PUMAX	Pass
Full		0	PUMAX		Pass		
High range	Partial	0	PUMAX		Pass		
		max	PUMAX		Pass		
	Full	0	PUMAX	Pass			

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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	16QAM	Low range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

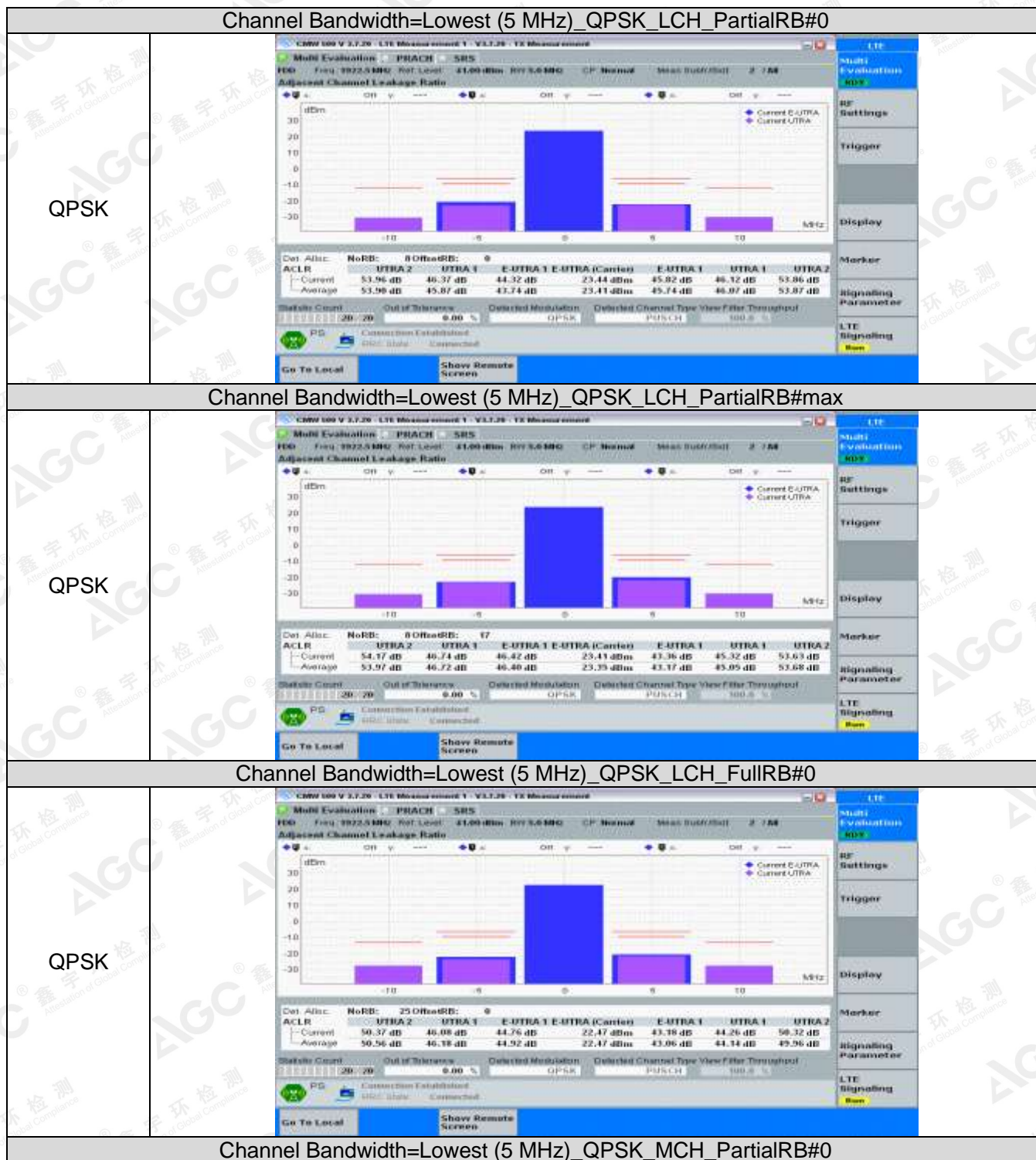
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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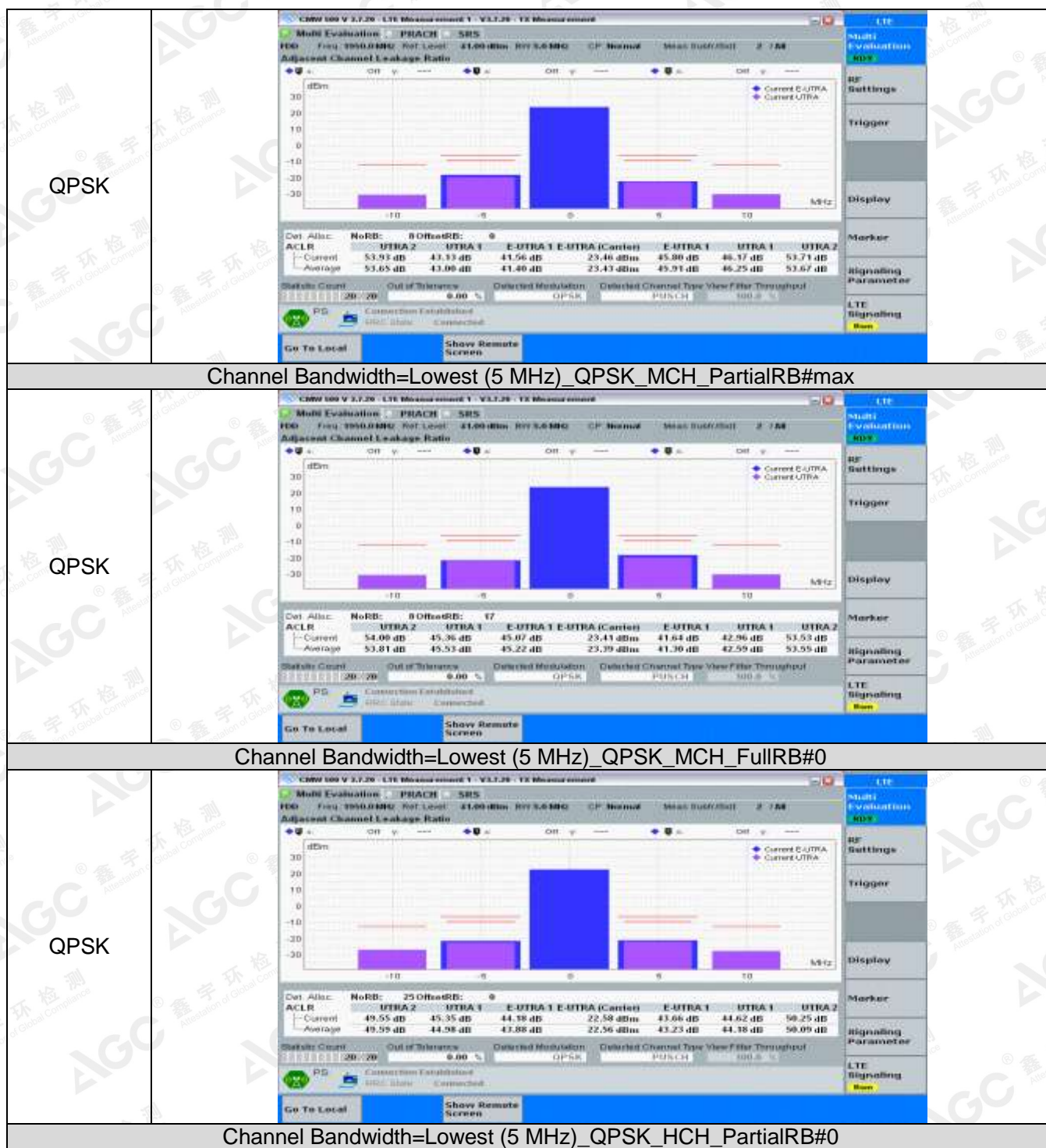
Test Graphs

NTNV

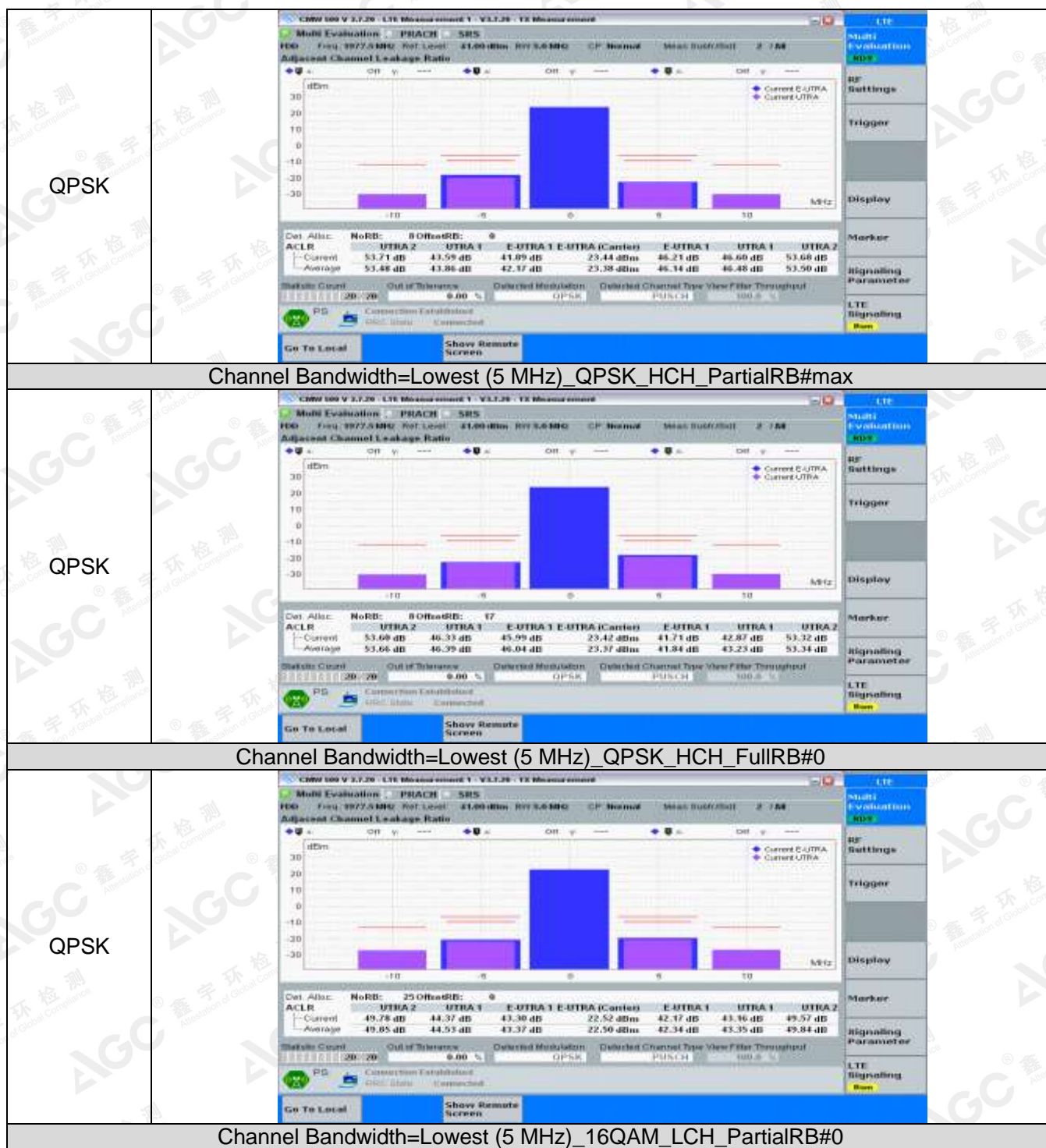
Channel Bandwidth=Lowest (5 MHz)



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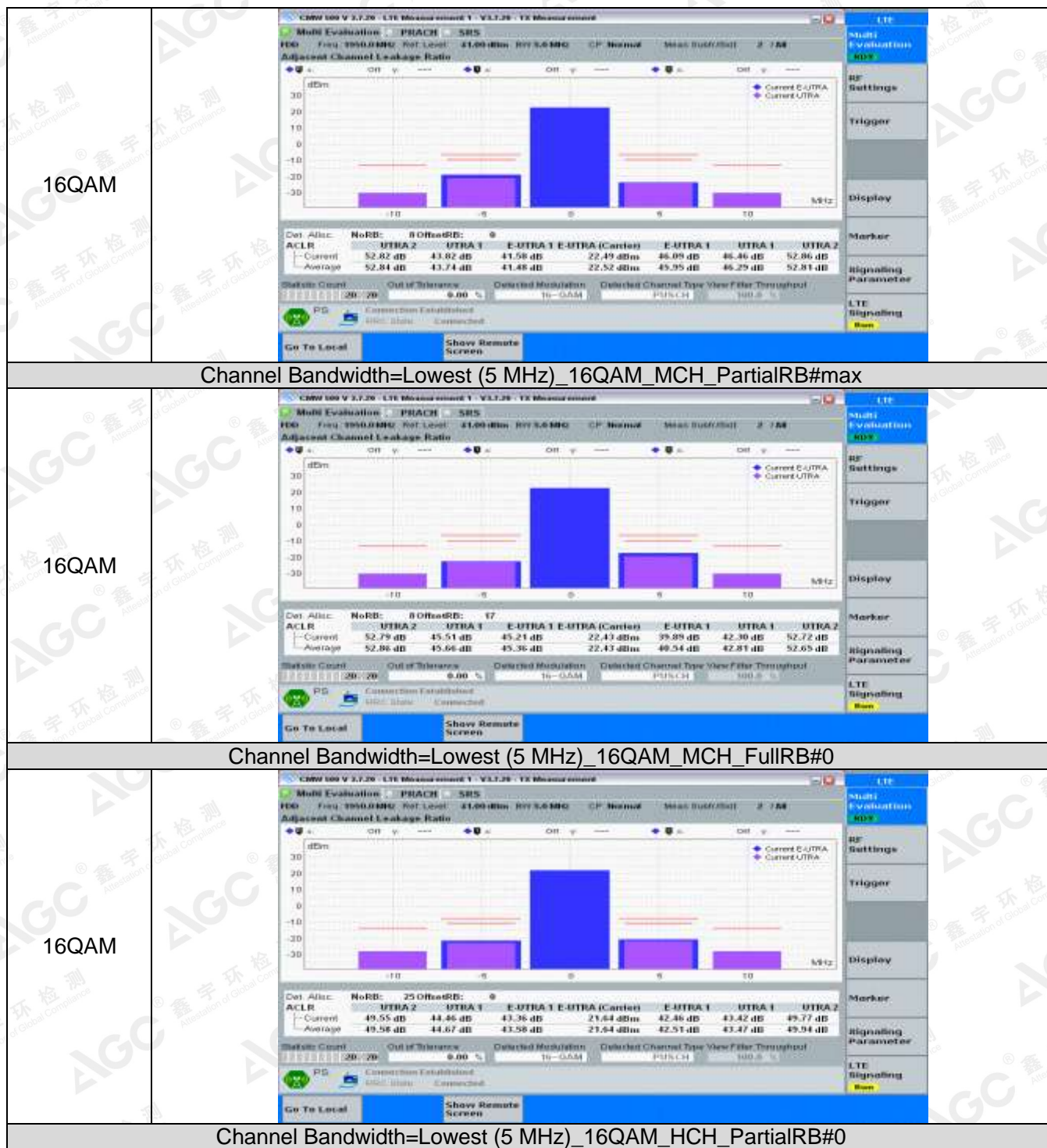
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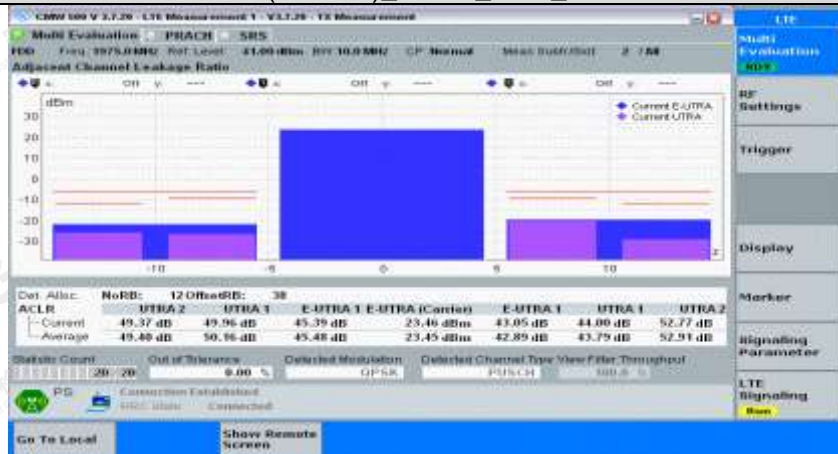

Channel Bandwidth= (10 MHz)



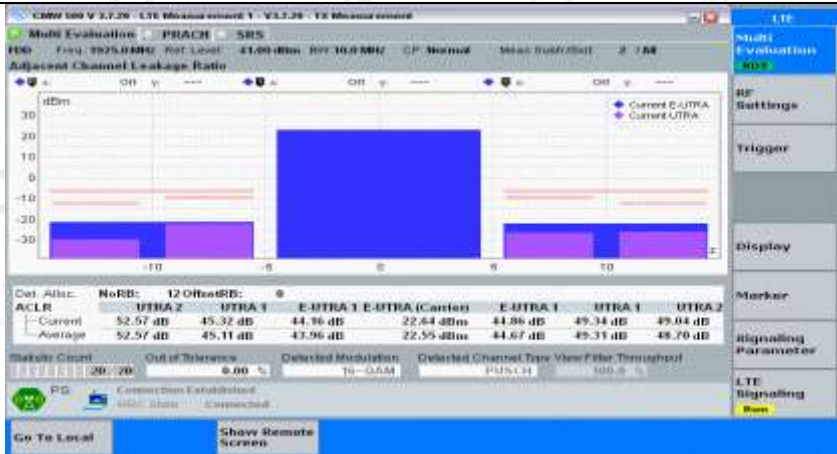

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>

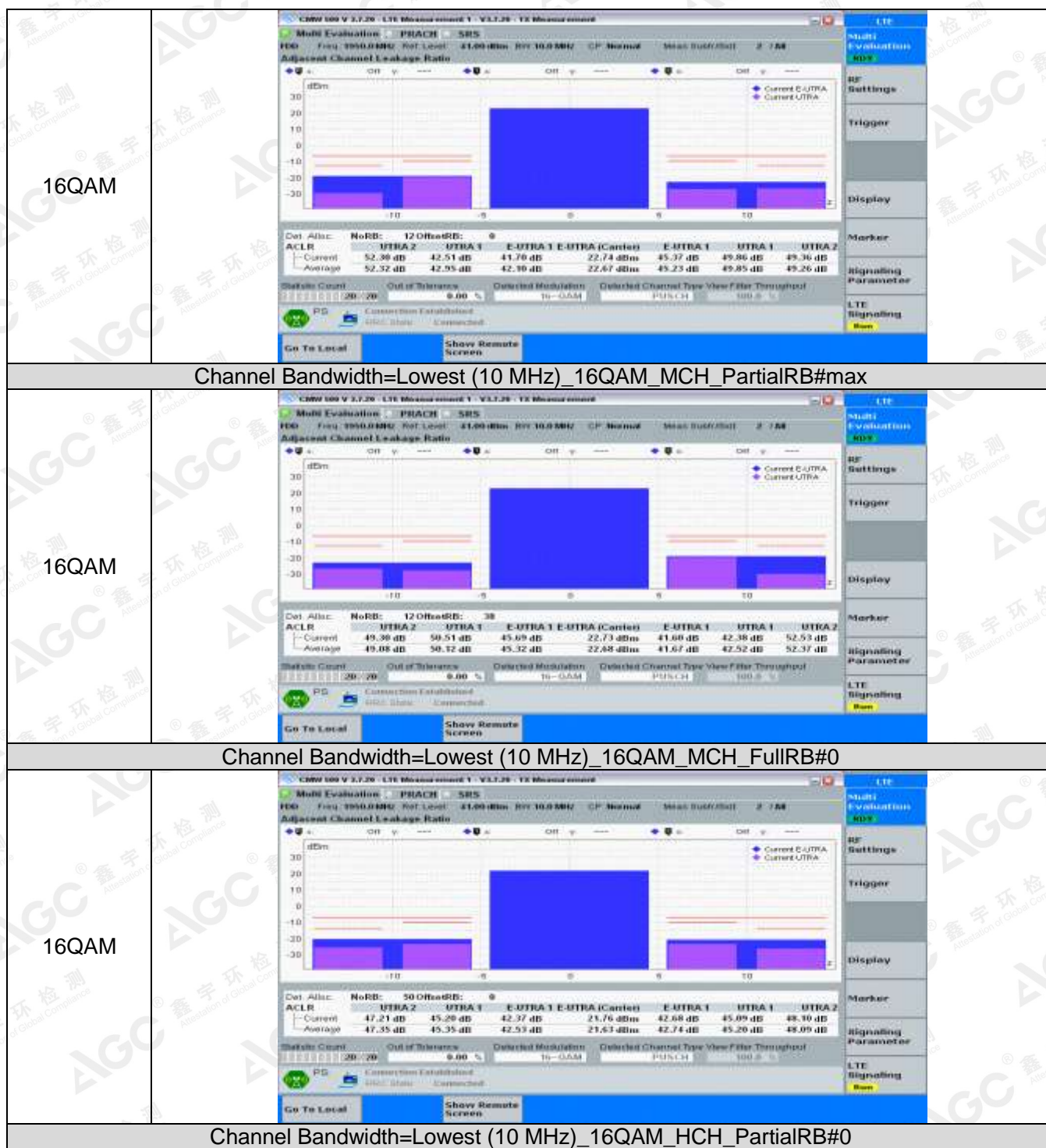
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QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>51.01 dB</td><td>44.87 dB</td><td>43.81 dB</td><td>23.51 dBm</td><td>45.58 dB</td><td>50.33 dB</td><td>49.48 dB</td><td></td></tr><tr><td>Average</td><td>52.95 dB</td><td>44.85 dB</td><td>43.81 dB</td><td>23.46 dBm</td><td>45.37 dB</td><td>50.12 dB</td><td>49.18 dB</td><td></td></tr></table>	Det. Alloc.	NoRB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	51.01 dB	44.87 dB	43.81 dB	23.51 dBm	45.58 dB	50.33 dB	49.48 dB		Average	52.95 dB	44.85 dB	43.81 dB	23.46 dBm	45.37 dB	50.12 dB	49.18 dB	
Det. Alloc.	NoRB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																				
Current	51.01 dB	44.87 dB	43.81 dB	23.51 dBm	45.58 dB	50.33 dB	49.48 dB																					
Average	52.95 dB	44.85 dB	43.81 dB	23.46 dBm	45.37 dB	50.12 dB	49.18 dB																					
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max																												
QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>49.37 dB</td><td>49.96 dB</td><td>45.39 dB</td><td>23.46 dBm</td><td>43.05 dB</td><td>44.00 dB</td><td>52.77 dB</td><td></td></tr><tr><td>Average</td><td>49.49 dB</td><td>50.16 dB</td><td>45.48 dB</td><td>23.45 dBm</td><td>42.89 dB</td><td>43.75 dB</td><td>52.91 dB</td><td></td></tr></table>	Det. Alloc.	NoRB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	49.37 dB	49.96 dB	45.39 dB	23.46 dBm	43.05 dB	44.00 dB	52.77 dB		Average	49.49 dB	50.16 dB	45.48 dB	23.45 dBm	42.89 dB	43.75 dB	52.91 dB	
Det. Alloc.	NoRB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																				
Current	49.37 dB	49.96 dB	45.39 dB	23.46 dBm	43.05 dB	44.00 dB	52.77 dB																					
Average	49.49 dB	50.16 dB	45.48 dB	23.45 dBm	42.89 dB	43.75 dB	52.91 dB																					
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0																												
QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>48.65 dB</td><td>45.93 dB</td><td>43.47 dB</td><td>22.56 dBm</td><td>43.15 dB</td><td>45.28 dB</td><td>49.15 dB</td><td></td></tr><tr><td>Average</td><td>48.75 dB</td><td>46.05 dB</td><td>43.53 dB</td><td>22.51 dBm</td><td>43.21 dB</td><td>45.33 dB</td><td>49.28 dB</td><td></td></tr></table>	Det. Alloc.	NoRB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	48.65 dB	45.93 dB	43.47 dB	22.56 dBm	43.15 dB	45.28 dB	49.15 dB		Average	48.75 dB	46.05 dB	43.53 dB	22.51 dBm	43.21 dB	45.33 dB	49.28 dB	
Det. Alloc.	NoRB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																				
Current	48.65 dB	45.93 dB	43.47 dB	22.56 dBm	43.15 dB	45.28 dB	49.15 dB																					
Average	48.75 dB	46.05 dB	43.53 dB	22.51 dBm	43.21 dB	45.33 dB	49.28 dB																					
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0																												

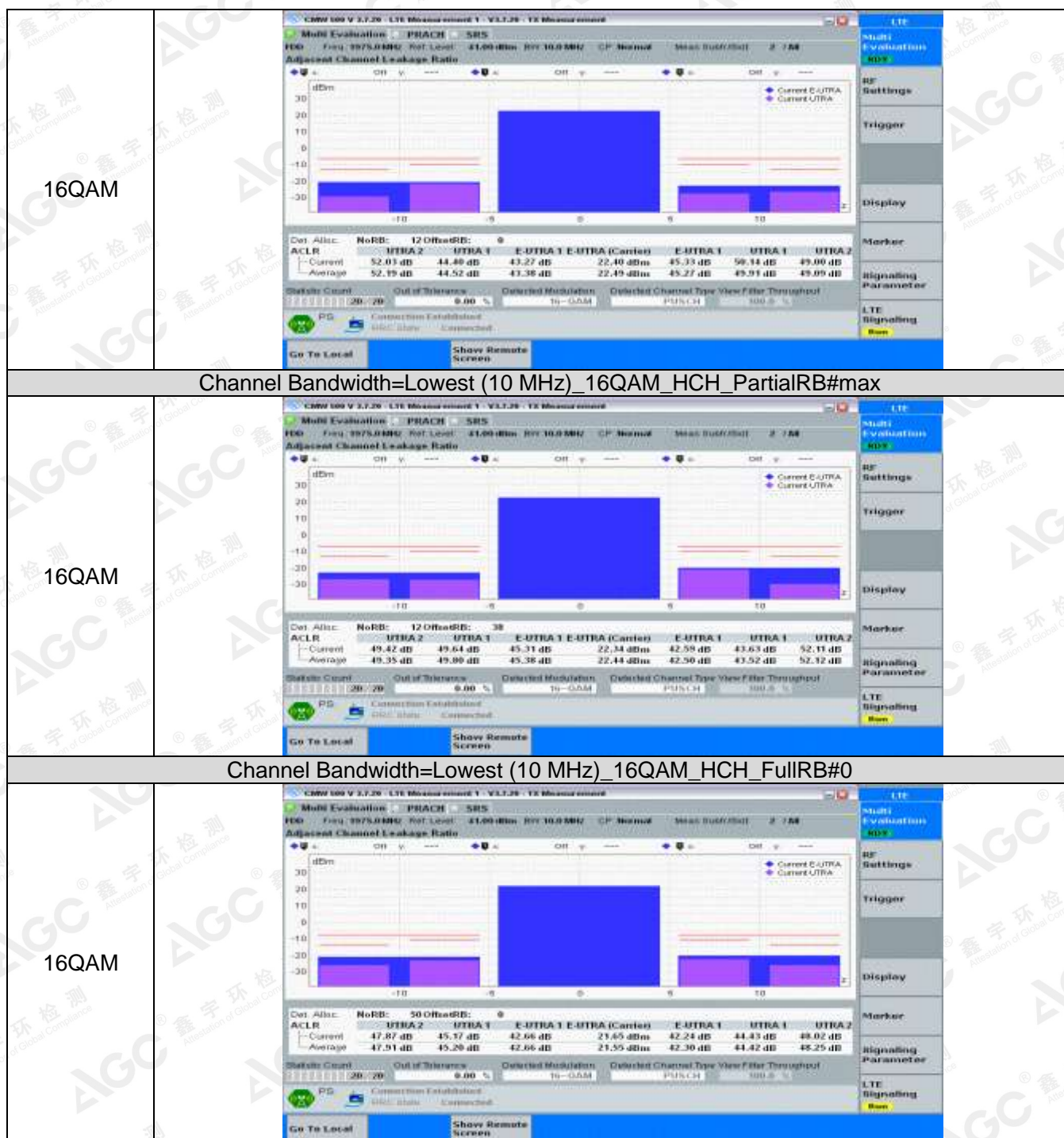
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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>




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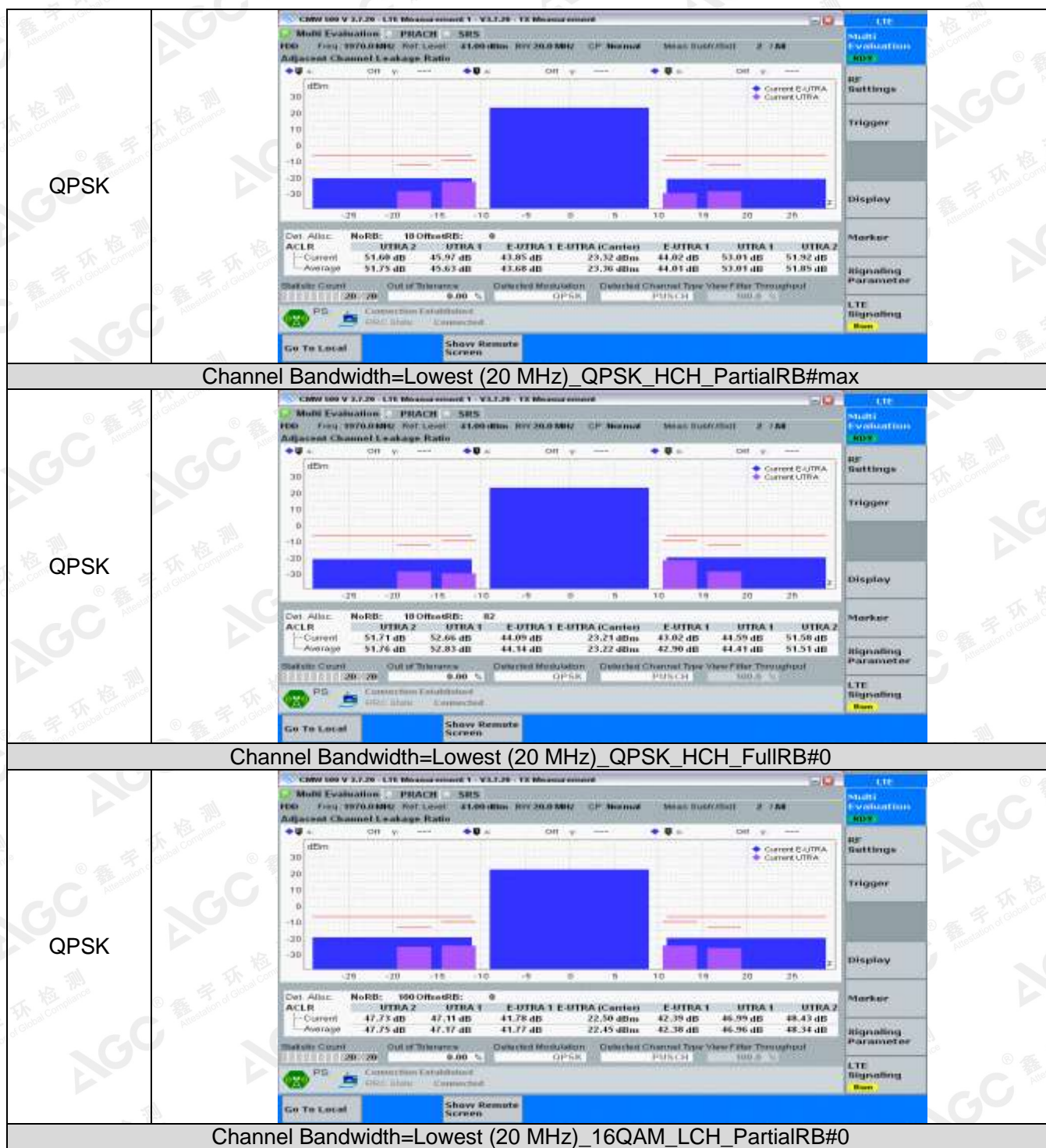
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QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>10 OffsRB</th><th>82</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>51.44 dB</td><td>42.78 dB</td><td>42.16 dB</td><td>23.41 dBm</td><td>44.76 dB</td><td>53.06 dB</td><td>52.01 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>51.62 dB</td><td>43.84 dB</td><td>42.79 dB</td><td>23.35 dBm</td><td>44.16 dB</td><td>51.15 dB</td><td>52.03 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	10 OffsRB	82	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	51.44 dB	42.78 dB	42.16 dB	23.41 dBm	44.76 dB	53.06 dB	52.01 dB				Average	51.62 dB	43.84 dB	42.79 dB	23.35 dBm	44.16 dB	51.15 dB	52.03 dB			
Det. Alloc.	NoRB	10 OffsRB	82	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																								
Current	51.44 dB	42.78 dB	42.16 dB	23.41 dBm	44.76 dB	53.06 dB	52.01 dB																											
Average	51.62 dB	43.84 dB	42.79 dB	23.35 dBm	44.16 dB	51.15 dB	52.03 dB																											
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max																																		
QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>10 OffsRB</th><th>82</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>51.79 dB</td><td>52.68 dB</td><td>44.29 dB</td><td>23.33 dBm</td><td>42.11 dB</td><td>43.11 dB</td><td>51.71 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>51.83 dB</td><td>52.81 dB</td><td>44.32 dB</td><td>23.32 dBm</td><td>42.52 dB</td><td>43.75 dB</td><td>51.63 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	10 OffsRB	82	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	51.79 dB	52.68 dB	44.29 dB	23.33 dBm	42.11 dB	43.11 dB	51.71 dB				Average	51.83 dB	52.81 dB	44.32 dB	23.32 dBm	42.52 dB	43.75 dB	51.63 dB			
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Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0																																		
QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>10 OffsRB</th><th>82</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>49.03 dB</td><td>47.24 dB</td><td>41.87 dB</td><td>22.56 dBm</td><td>42.84 dB</td><td>48.03 dB</td><td>49.02 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>48.22 dB</td><td>47.42 dB</td><td>42.12 dB</td><td>22.51 dBm</td><td>43.06 dB</td><td>48.15 dB</td><td>49.14 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	10 OffsRB	82	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	49.03 dB	47.24 dB	41.87 dB	22.56 dBm	42.84 dB	48.03 dB	49.02 dB				Average	48.22 dB	47.42 dB	42.12 dB	22.51 dBm	43.06 dB	48.15 dB	49.14 dB			
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Average	48.22 dB	47.42 dB	42.12 dB	22.51 dBm	43.06 dB	48.15 dB	49.14 dB																											
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0																																		

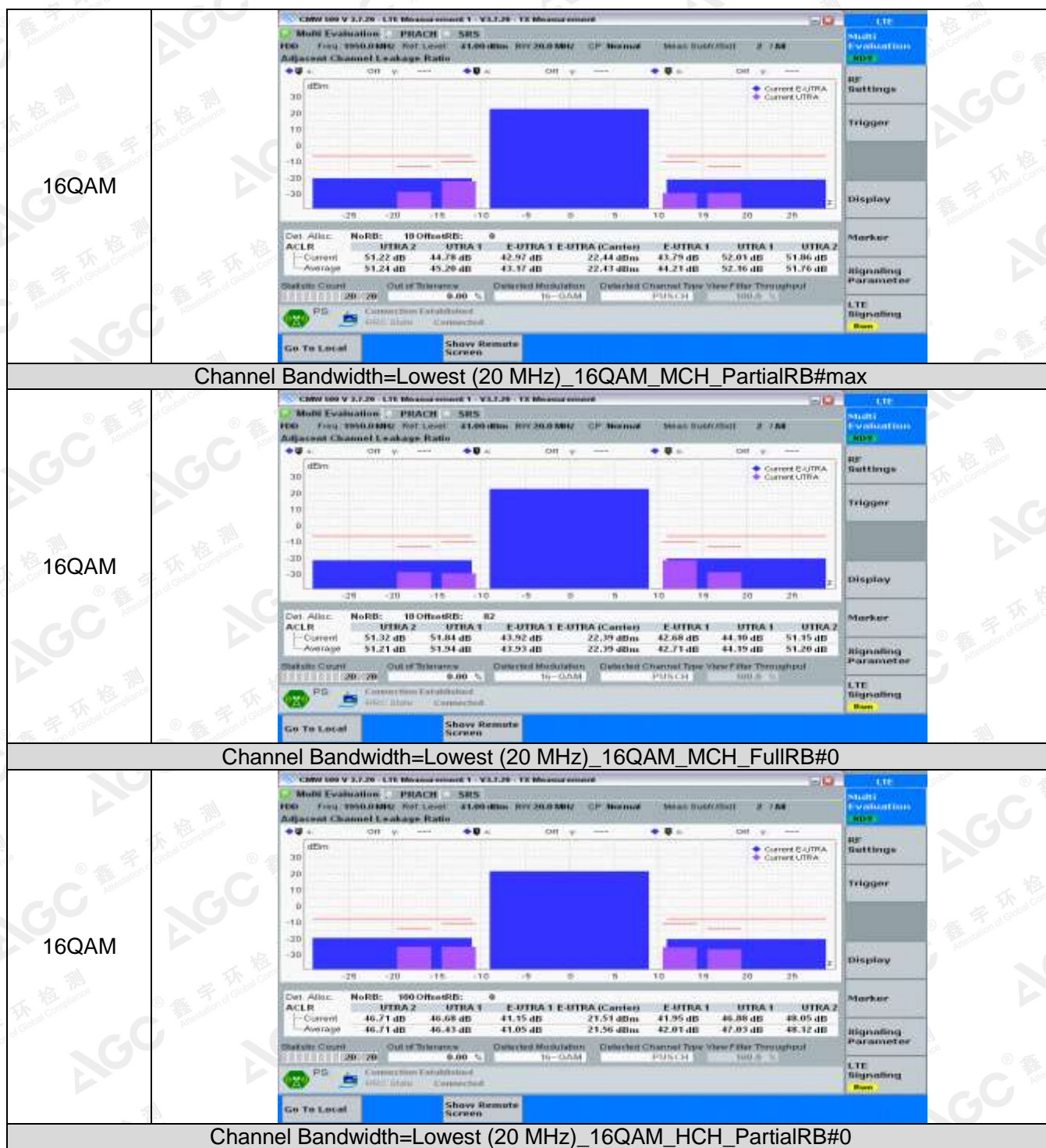
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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

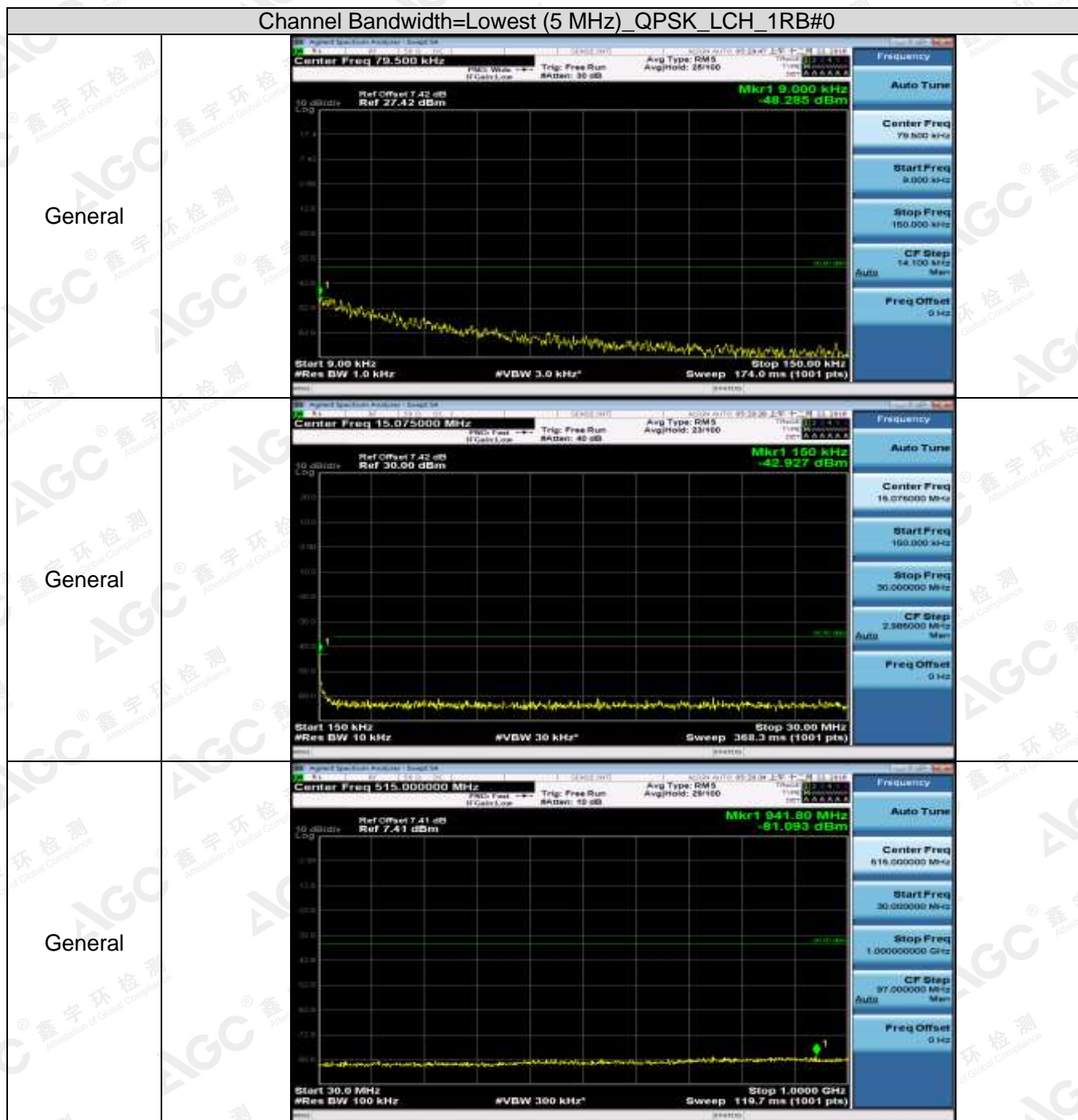
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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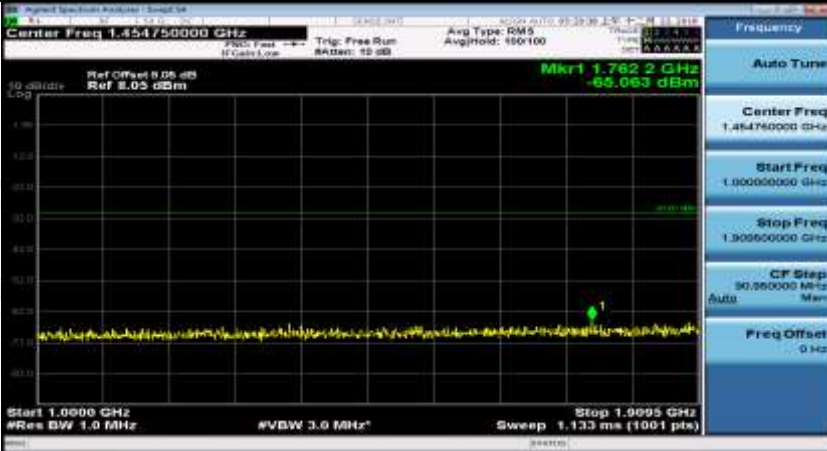
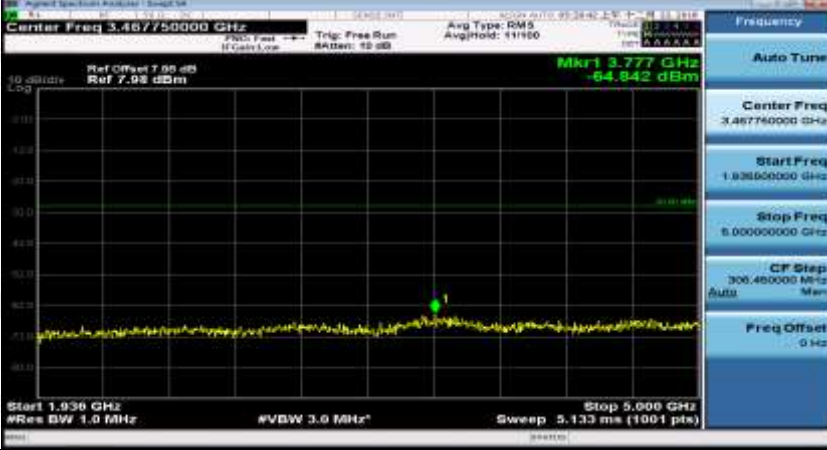
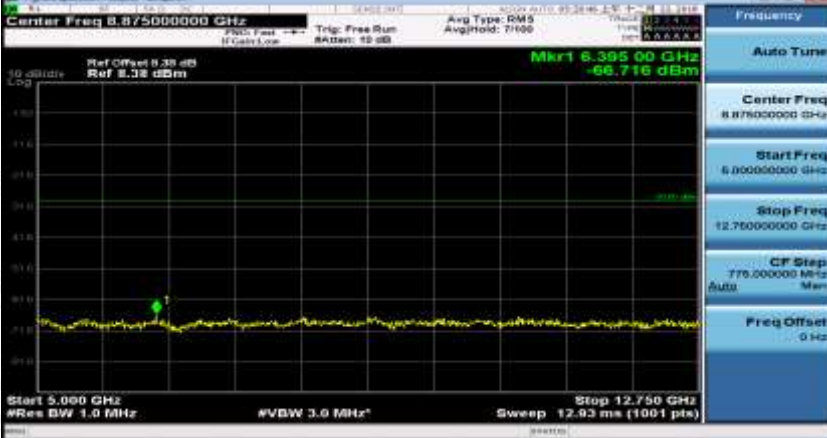
Test Graphs

NTNV


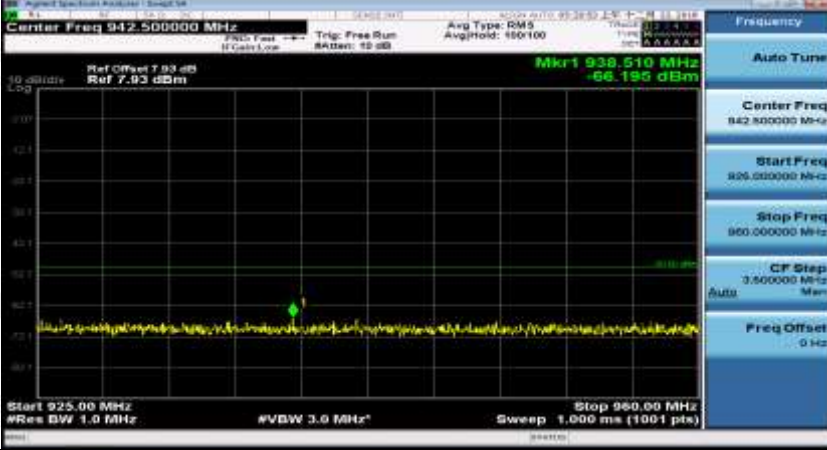
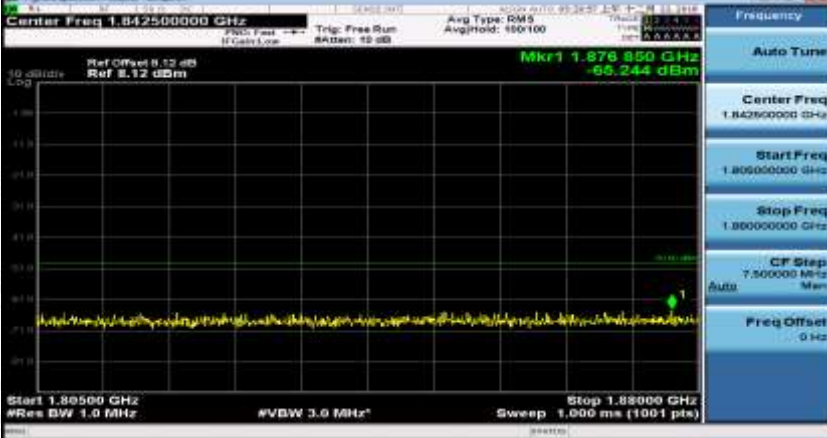
Channel Bandwidth=Lowest (5 MHz)



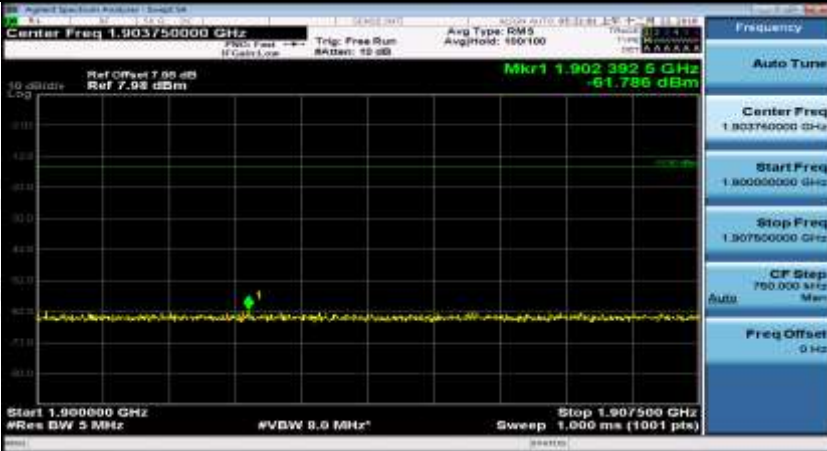
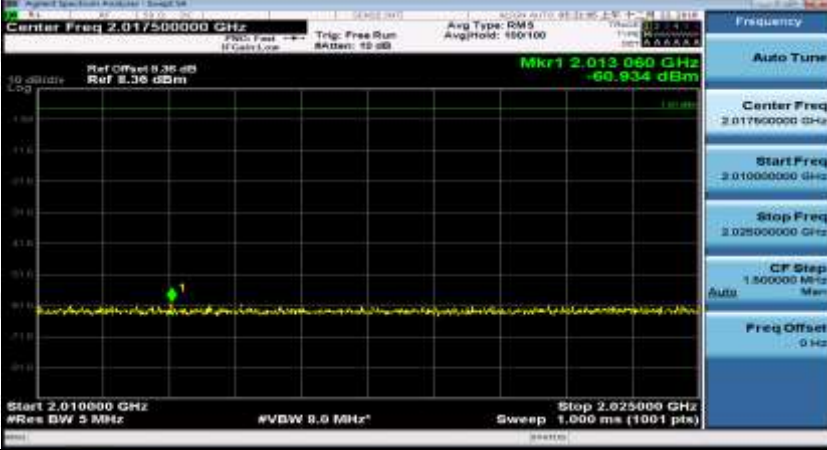
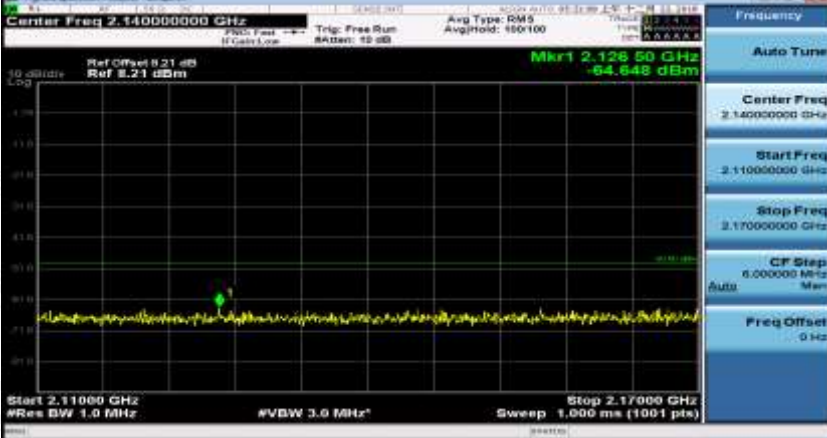
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General	
General	
General	

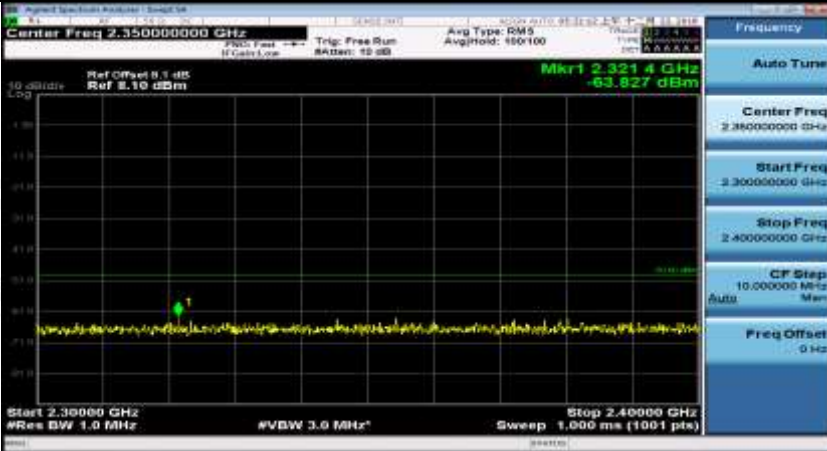
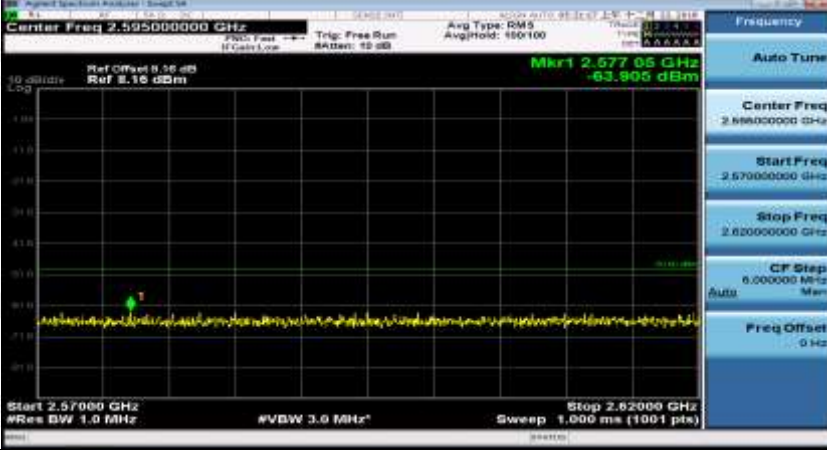
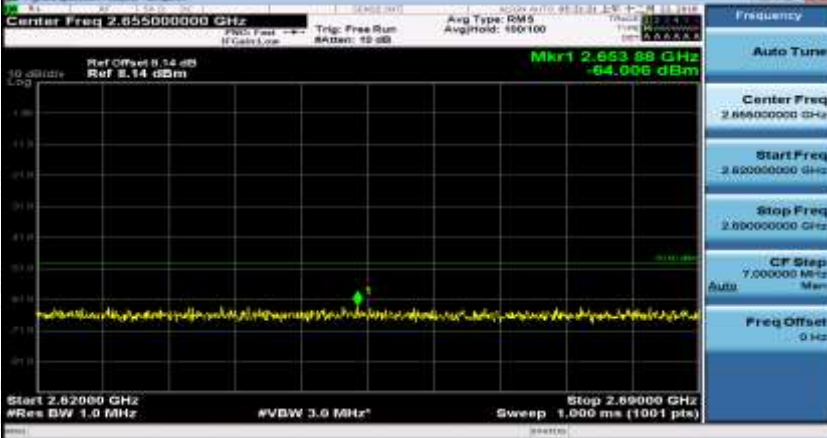
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Co-existence	
Co-existence	
Co-existence	

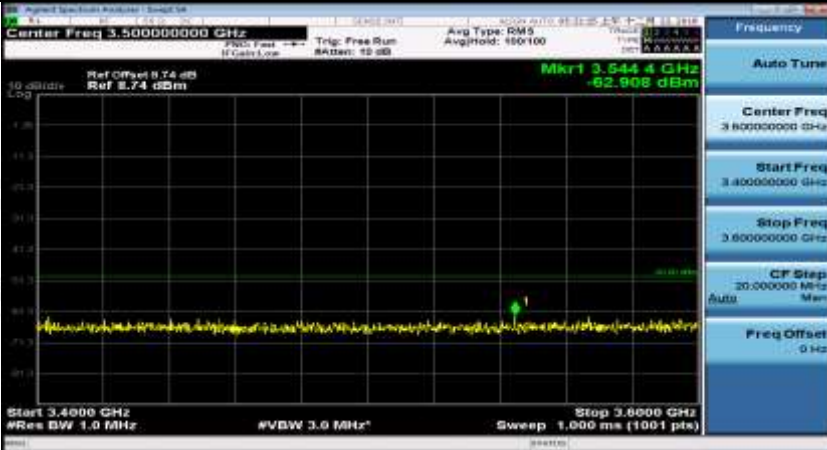
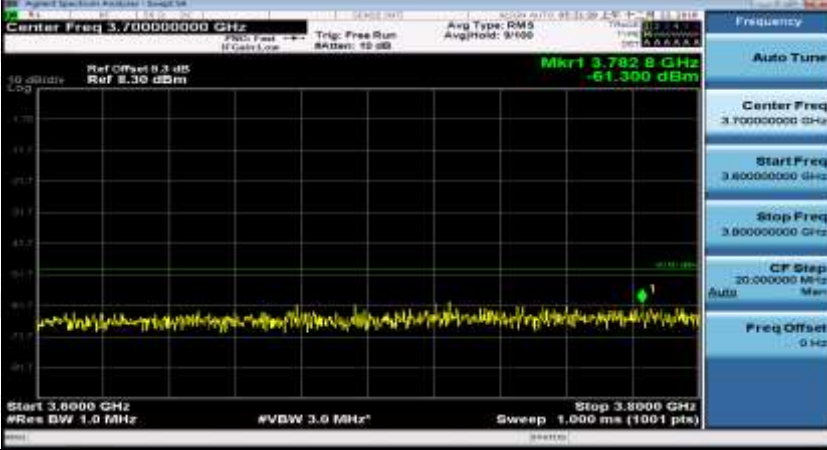
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Co-existence	
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Co-existence	

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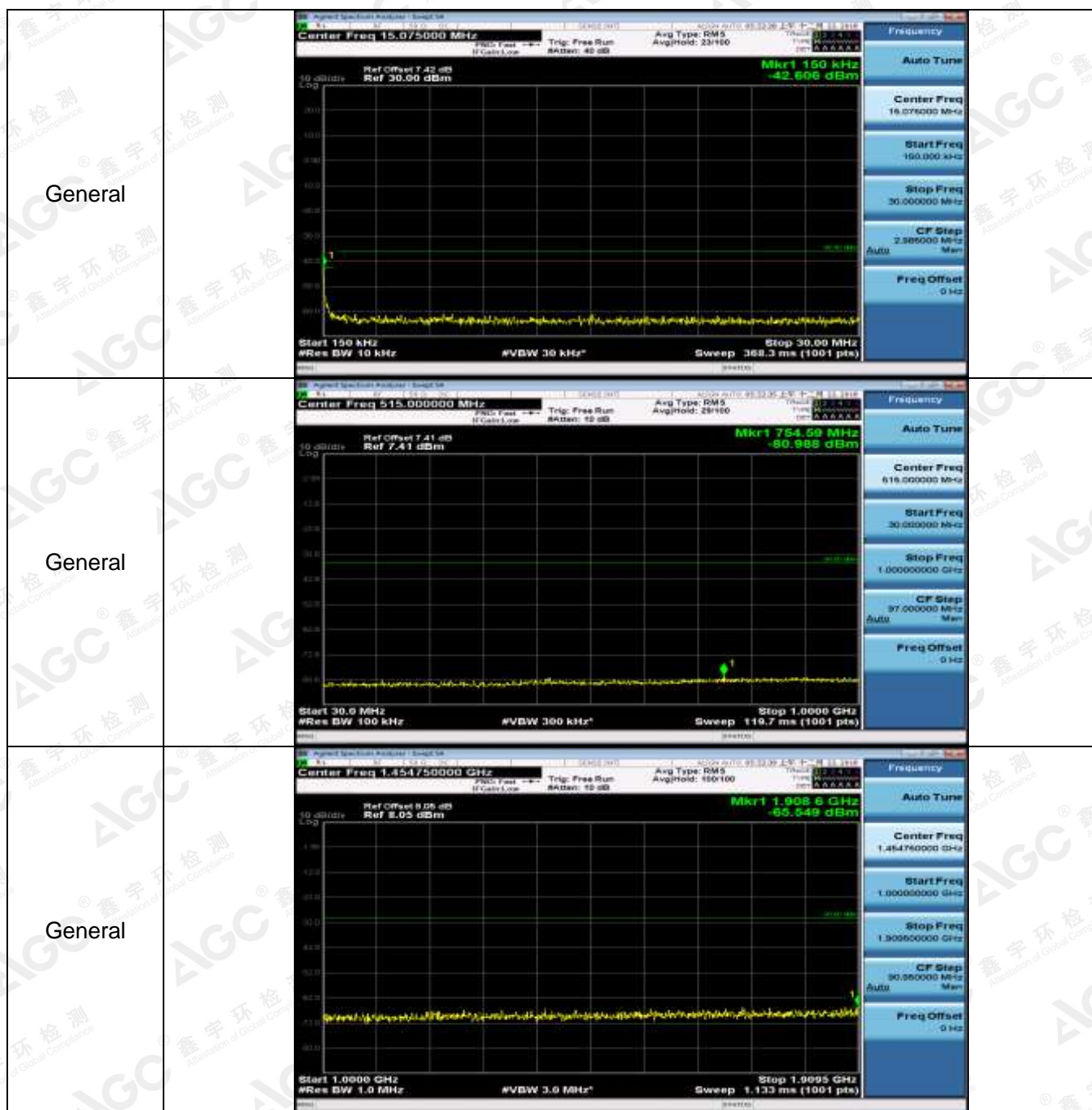
Co-existence	
Co-existence	
Co-existence	

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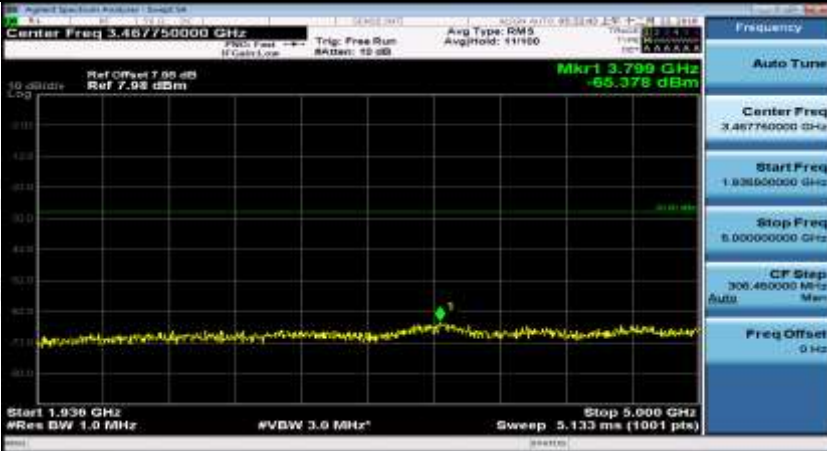

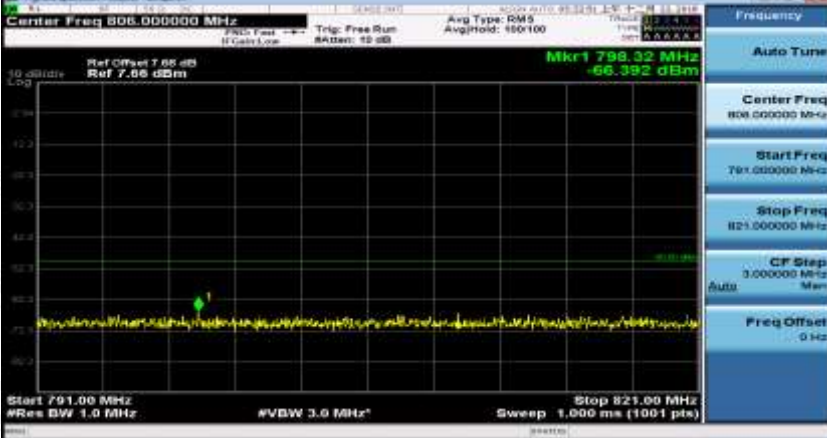
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	

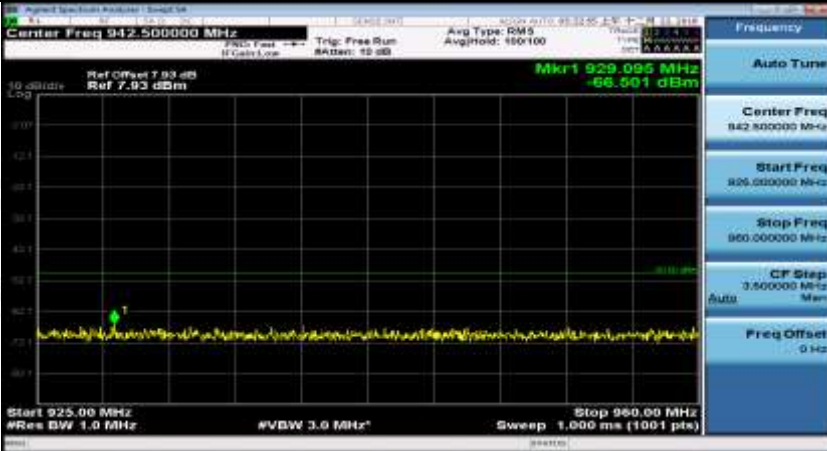
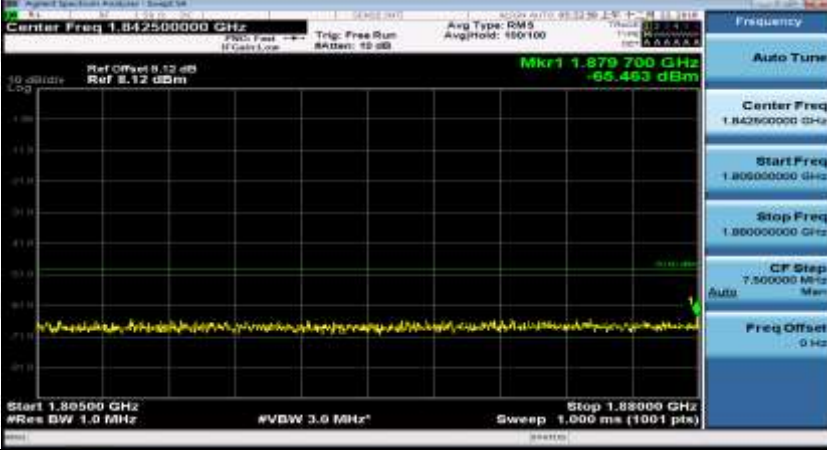

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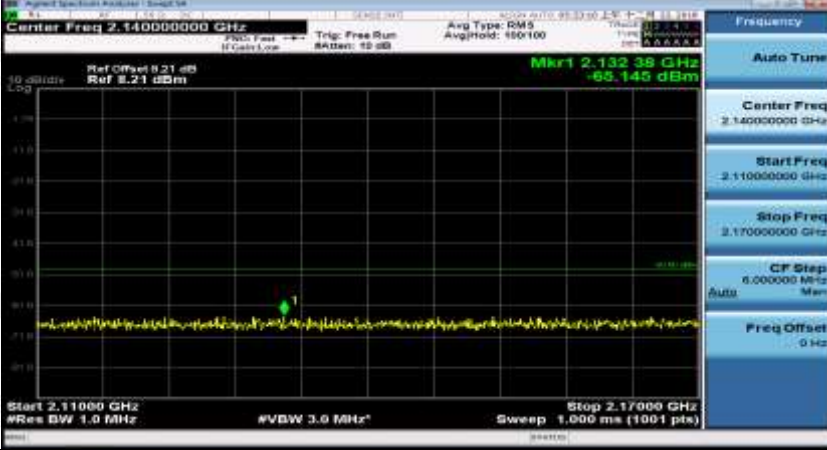
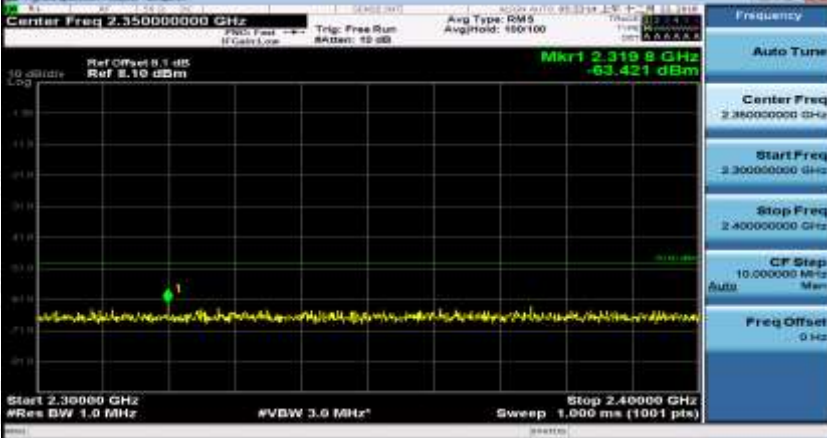
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General	
General	
Co-existence	

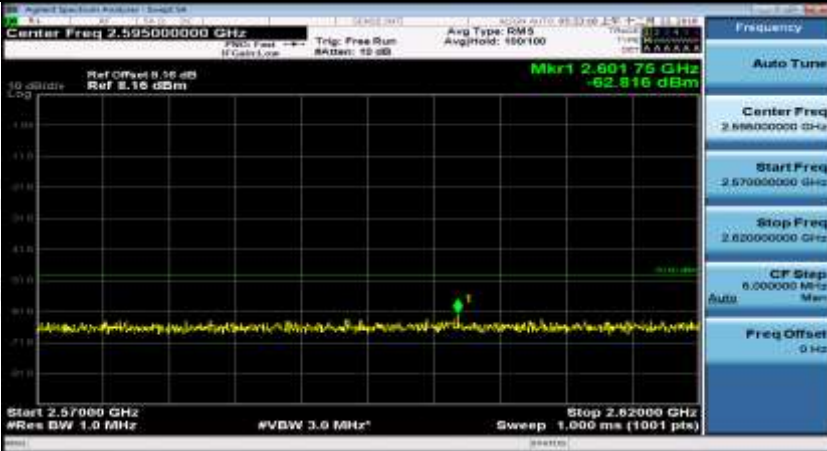
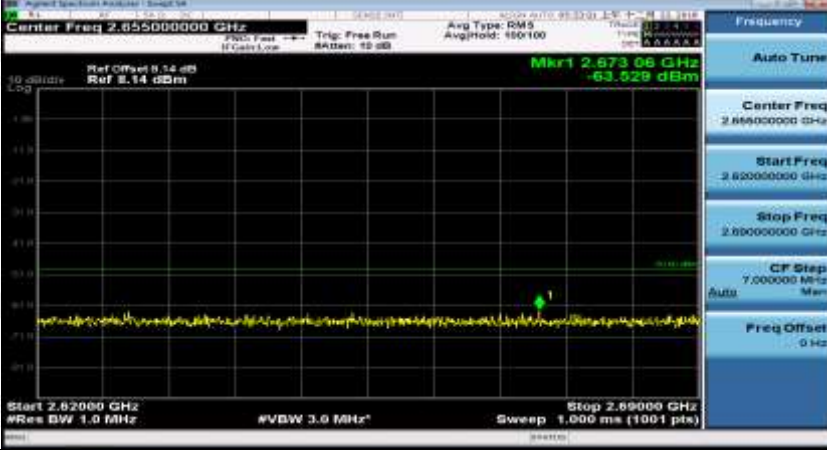
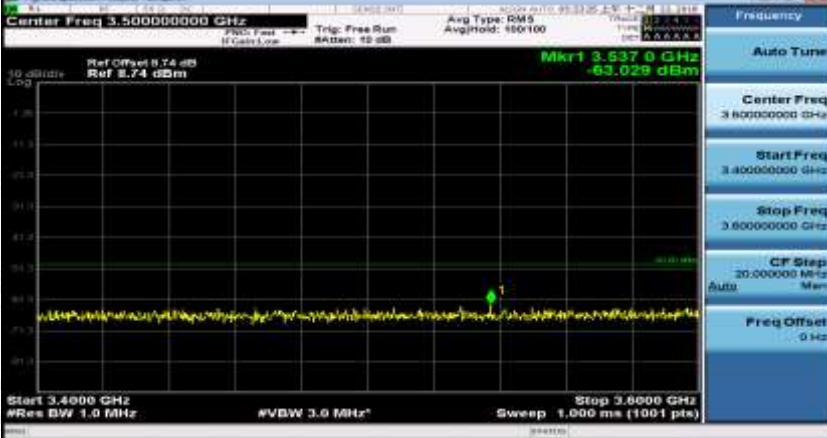
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Co-existence	
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Co-existence	

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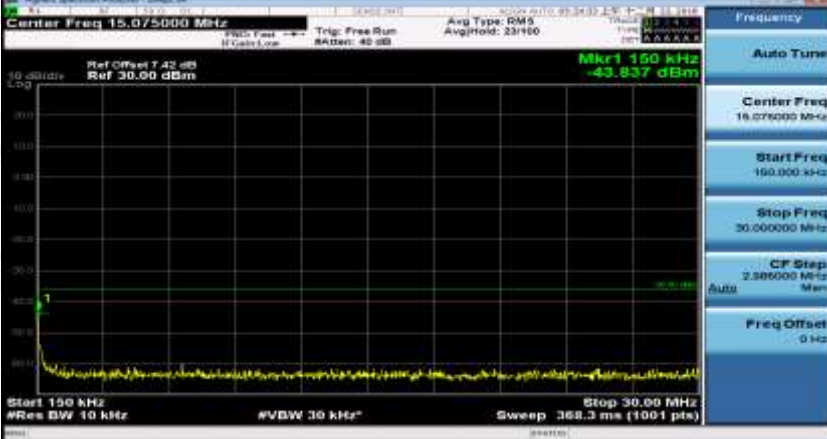
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
General	
General	

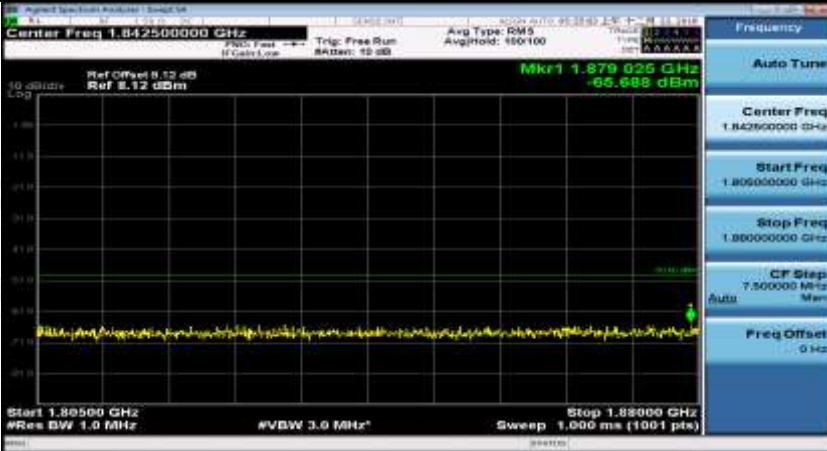
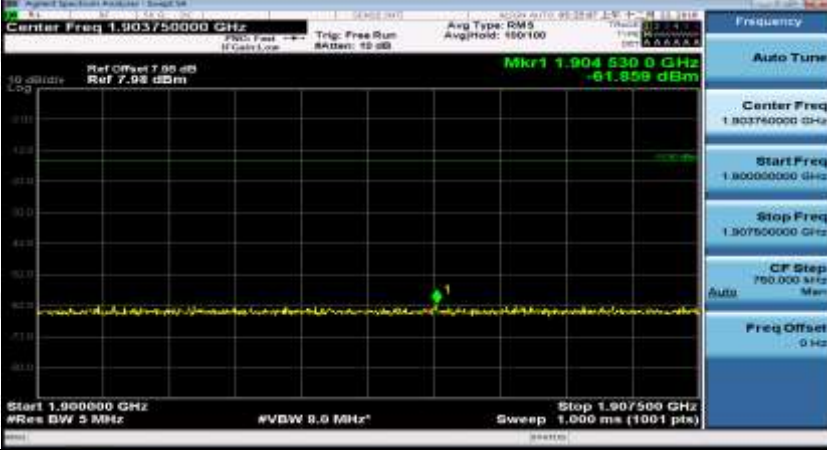

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General			
General			
General			


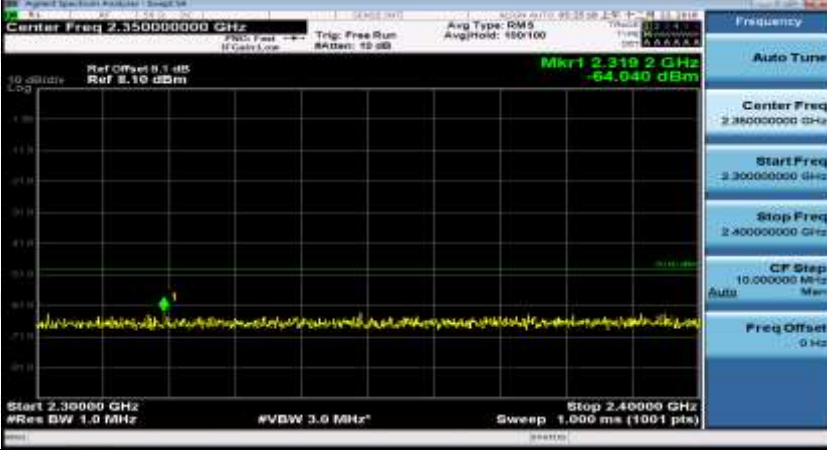
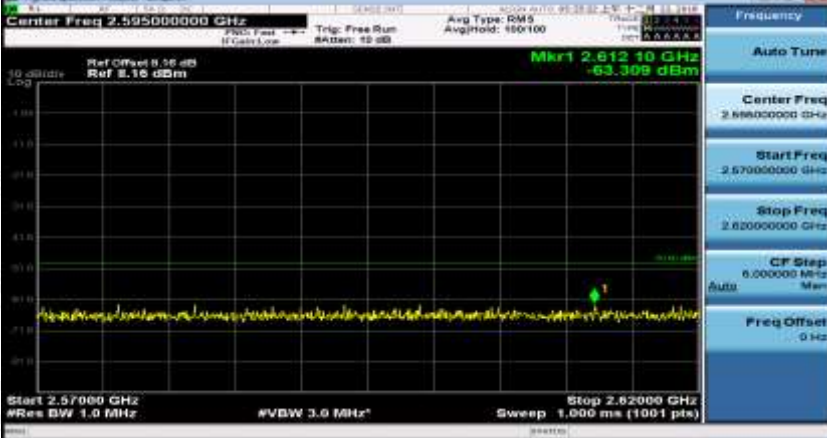
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General	
Co-existence	
Co-existence	


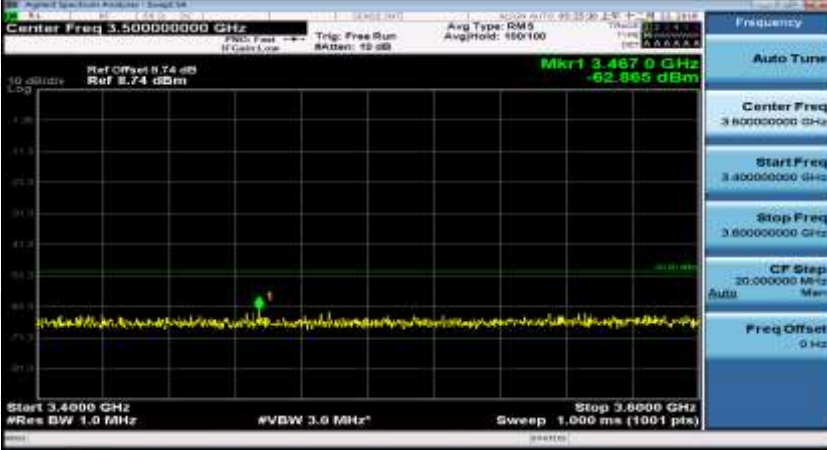
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Co-existence	
Co-existence	
Co-existence	

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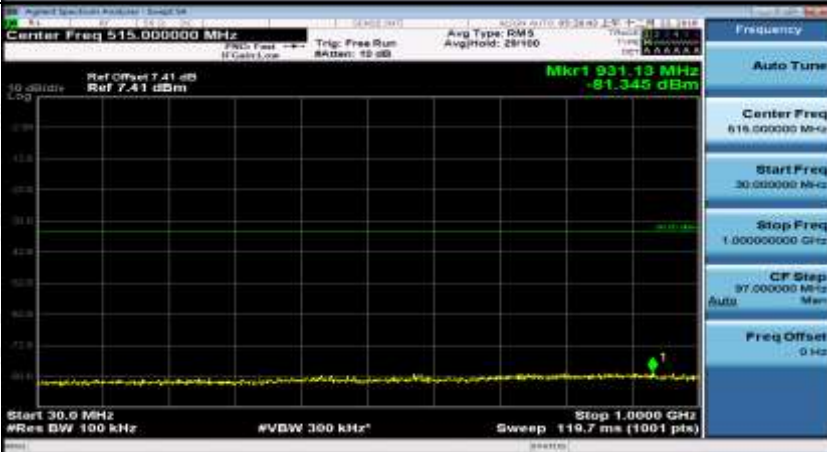
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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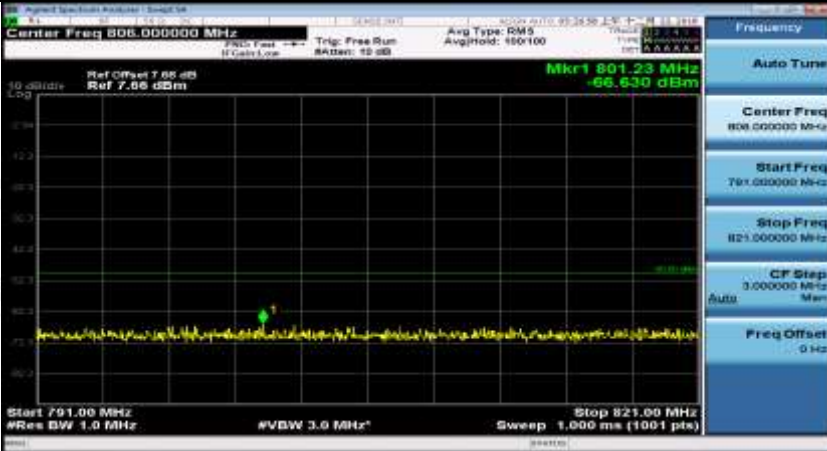
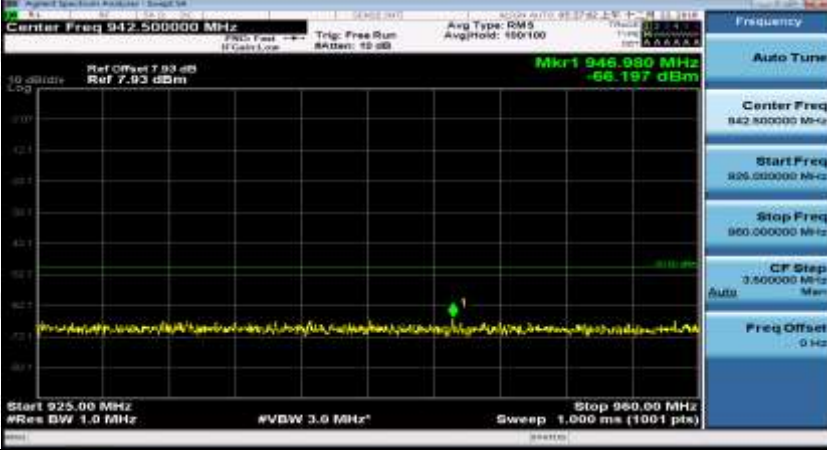
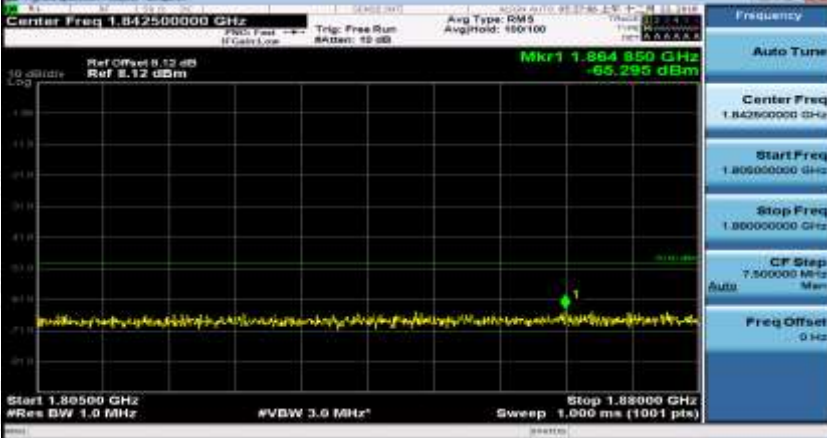
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

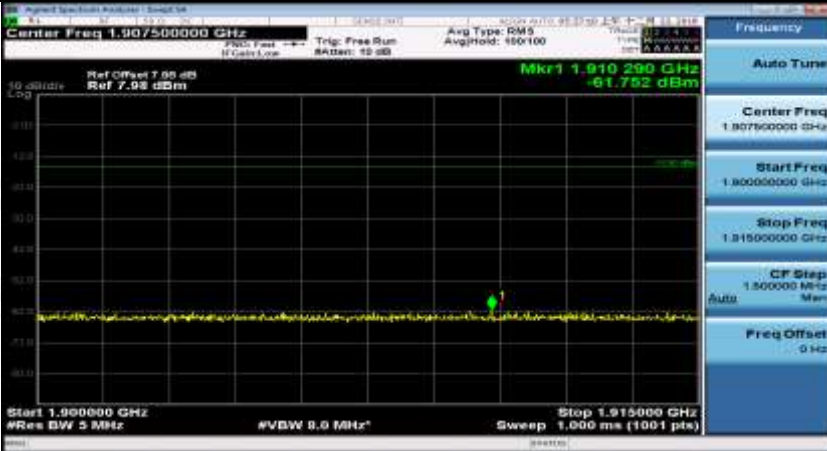
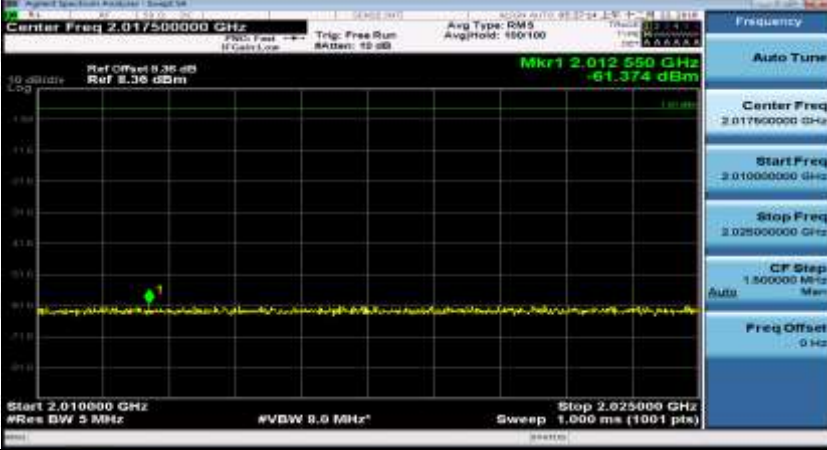
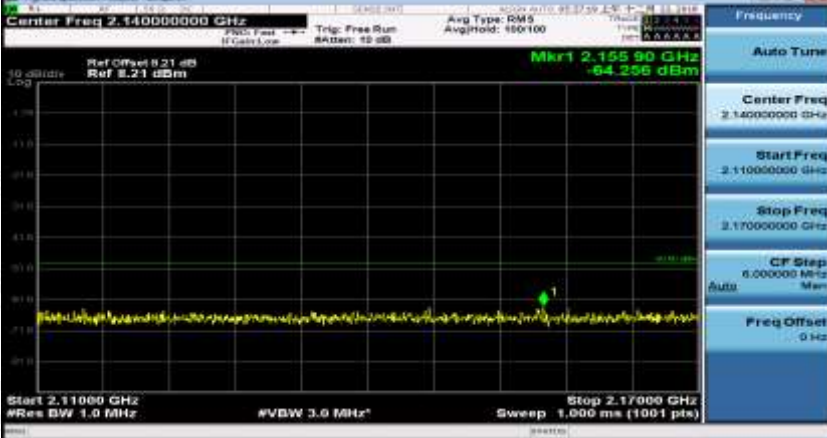
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General	
General	
General	

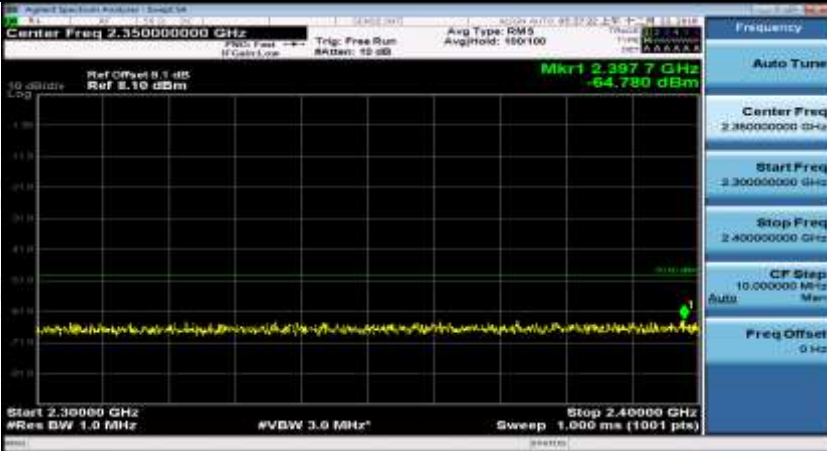
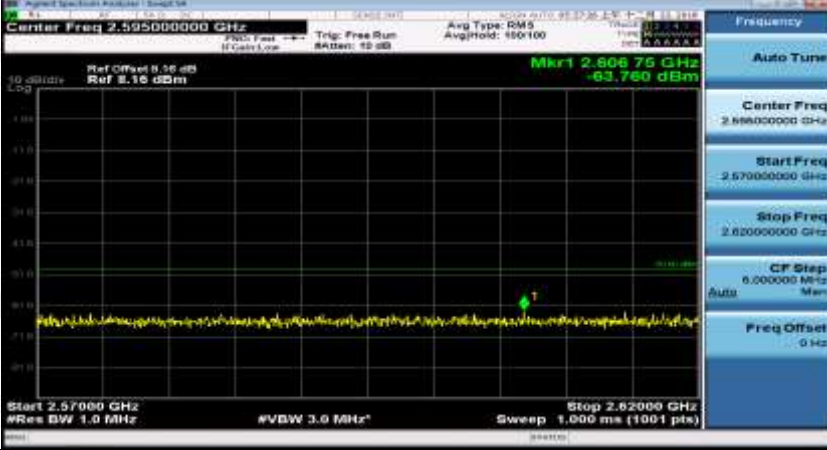
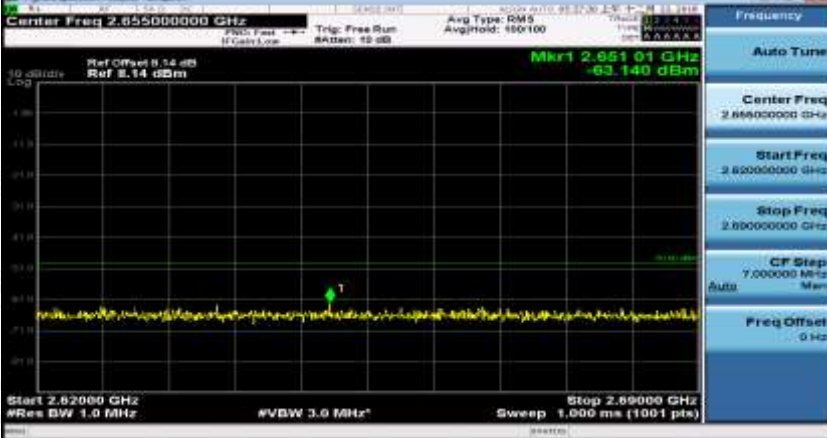
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Co-existence	
Co-existence	
Co-existence	

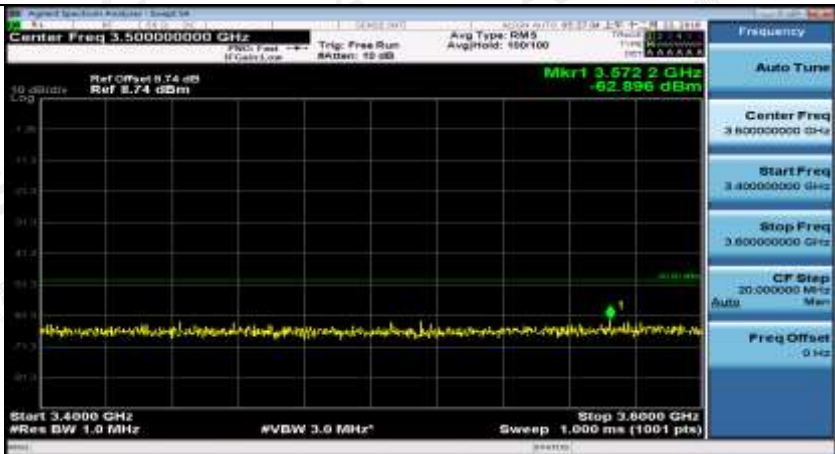
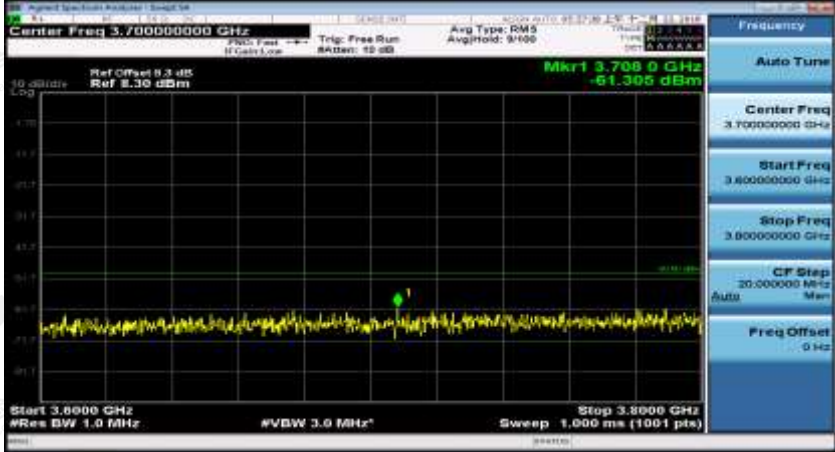
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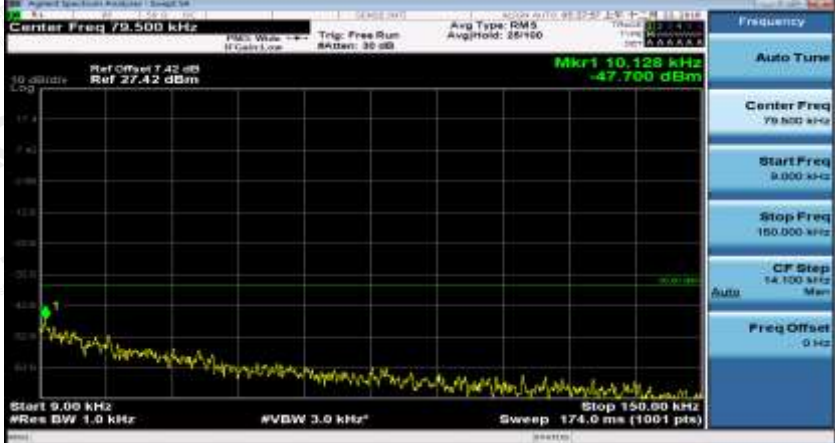
Co-existence	
Co-existence	
Co-existence	

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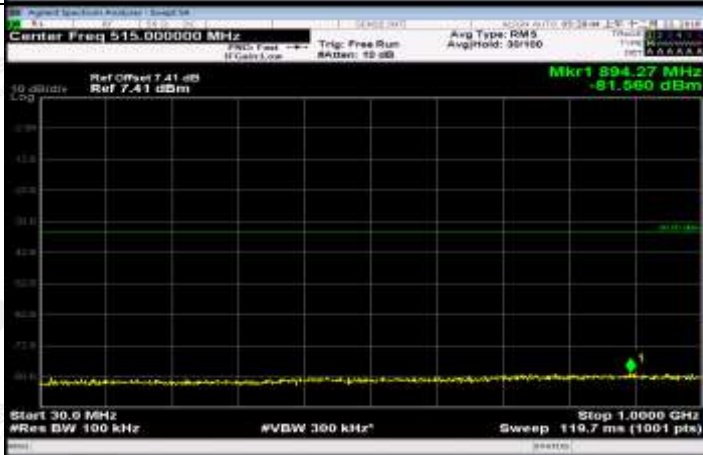

Co-existence	
Co-existence	
Co-existence	

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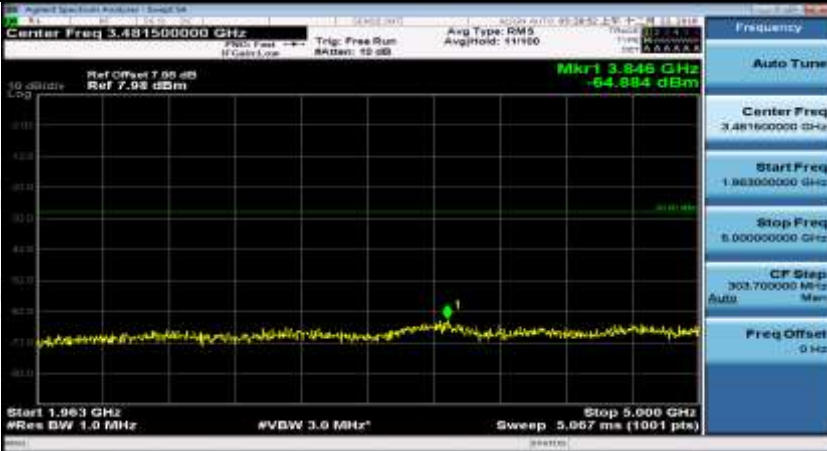

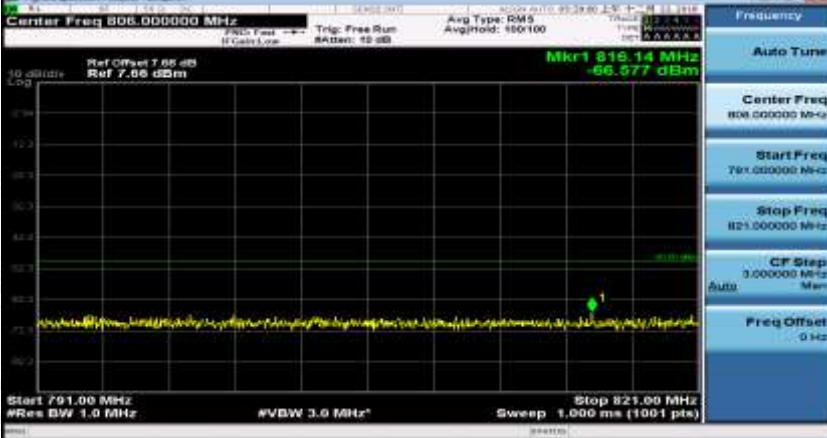
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	

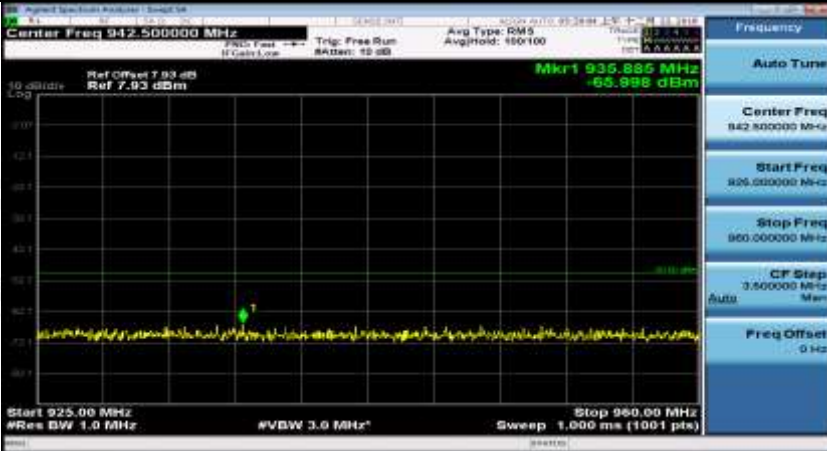
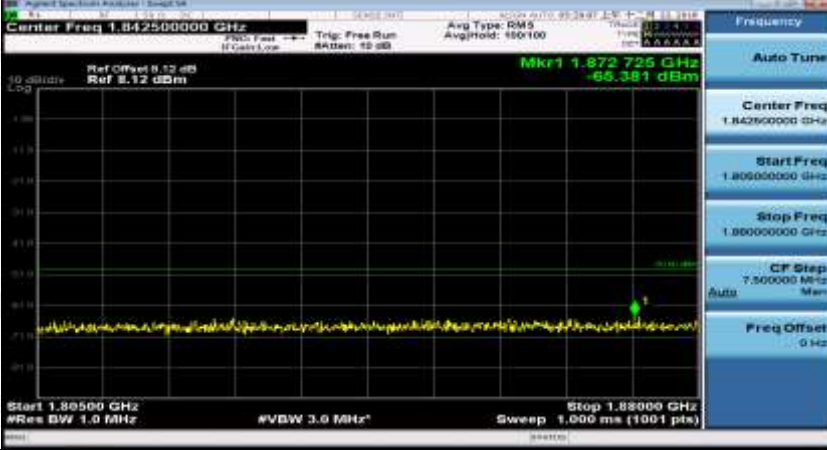
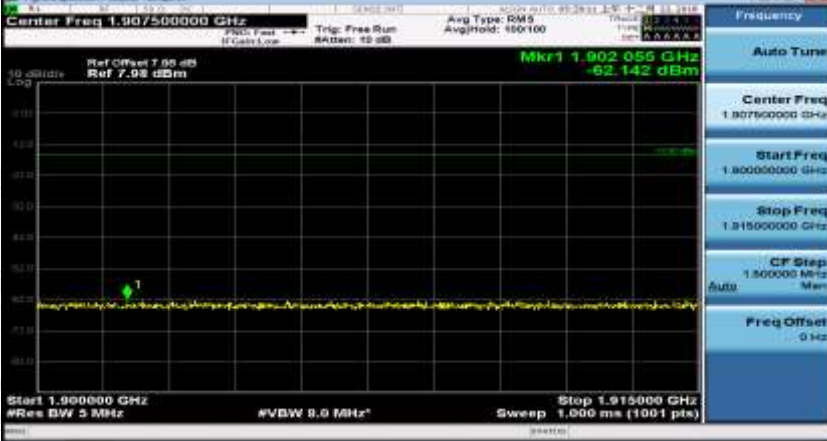
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.0000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.500000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.488500000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.937000000 GHz</p> <p>CF Step 93.700000 MHz</p> <p>Freq Offset 0 Hz</p>

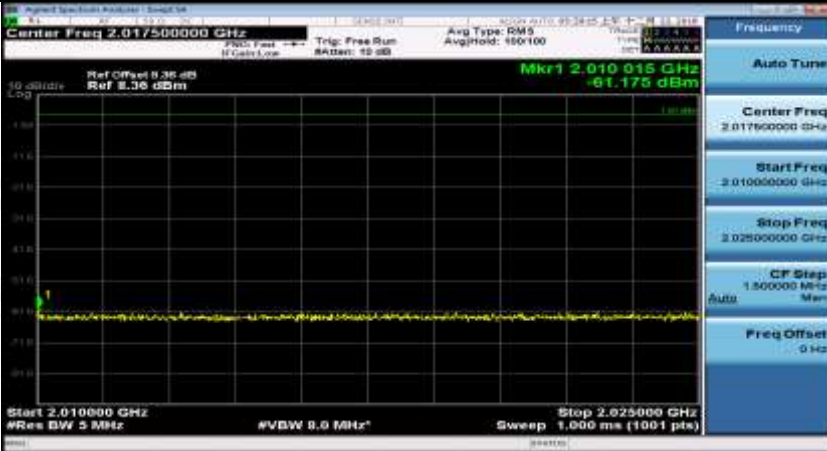
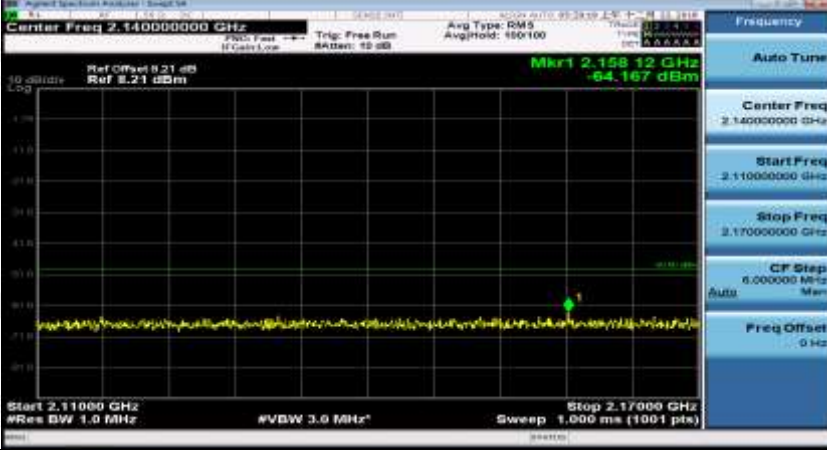
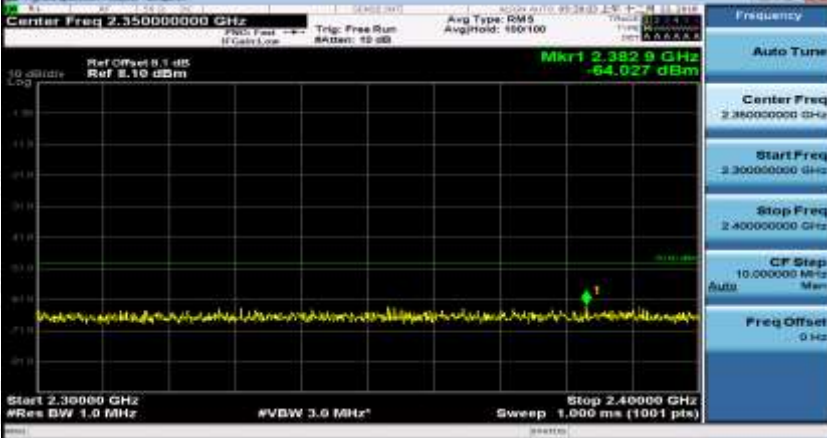
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General	
General	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

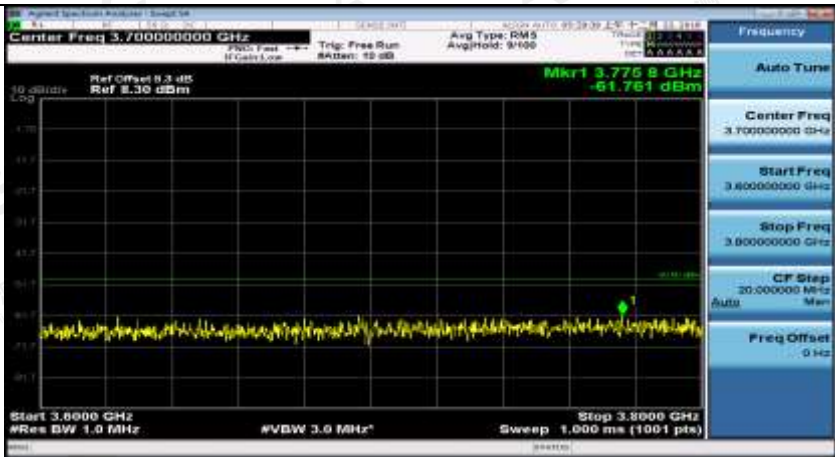
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

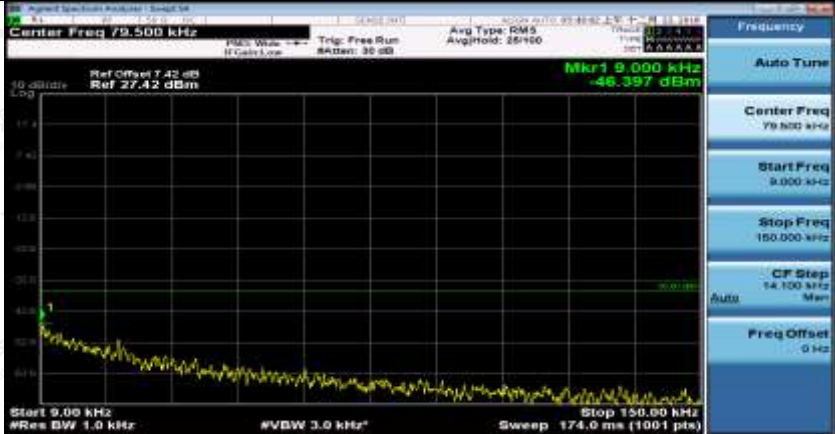
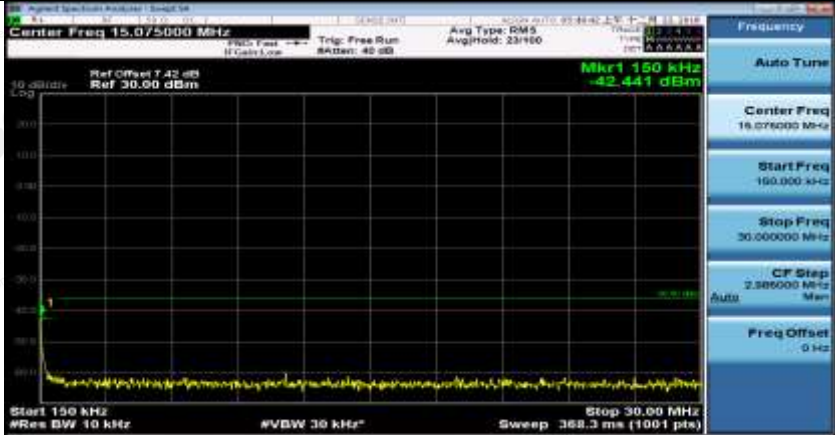
Co-existence	
Co-existence	
Co-existence	

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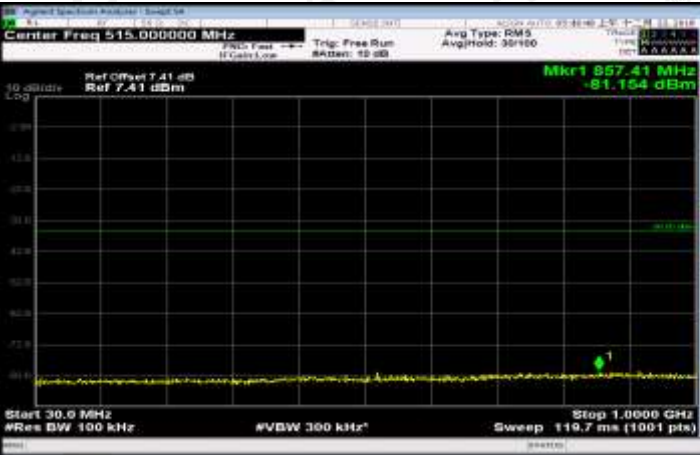
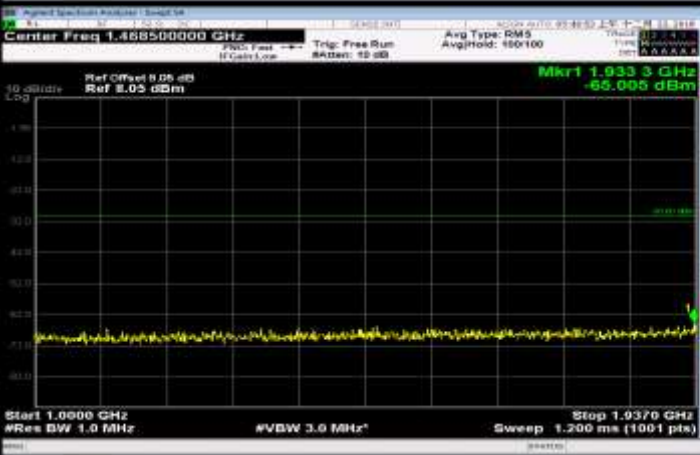

Co-existence	
Co-existence	
Co-existence	

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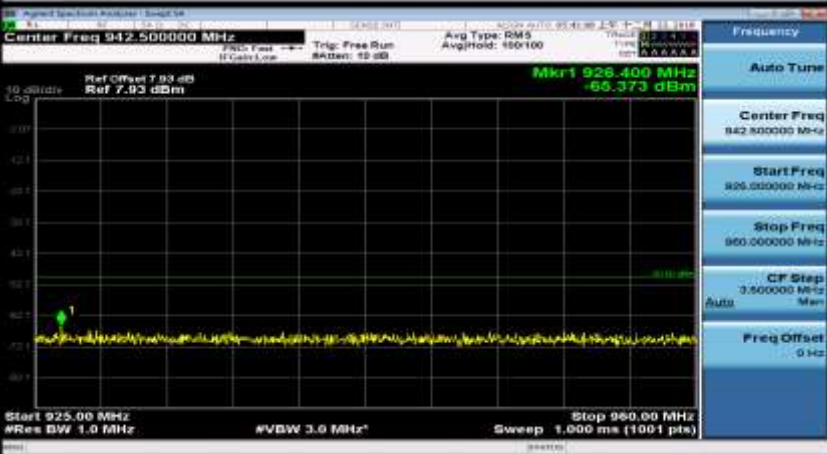
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0	
General	
General	


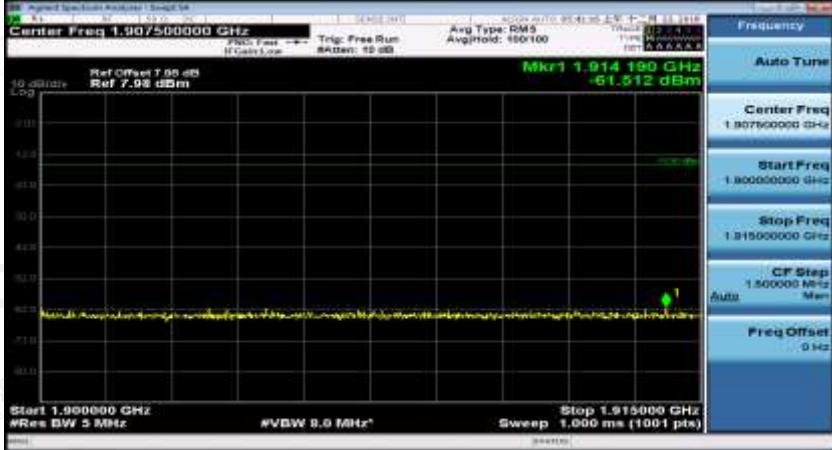
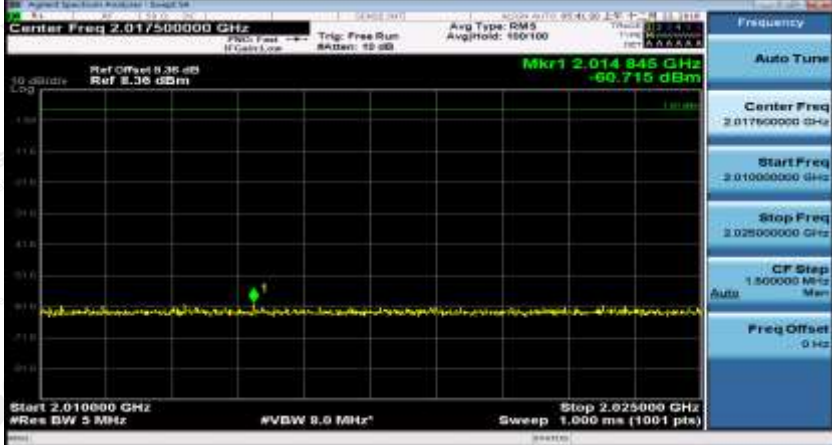
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.468500000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.937000000 GHz</p> <p>CF Step 93.700000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.481500000 GHz</p> <p>Start Freq 1.963000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 303.700000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p>

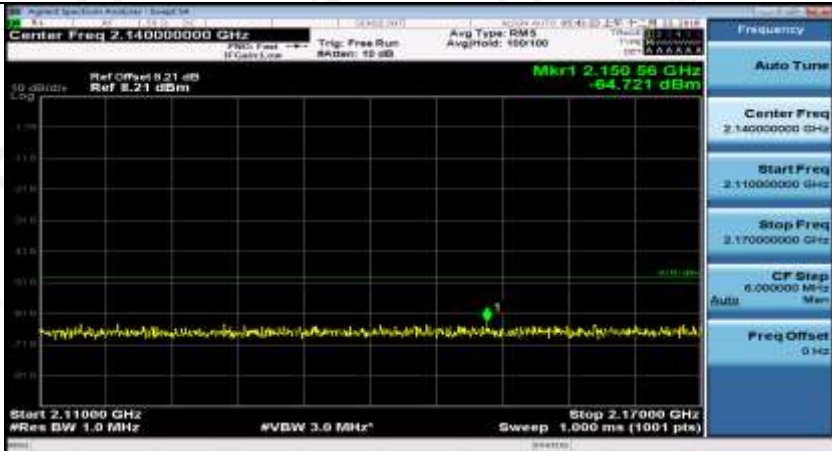
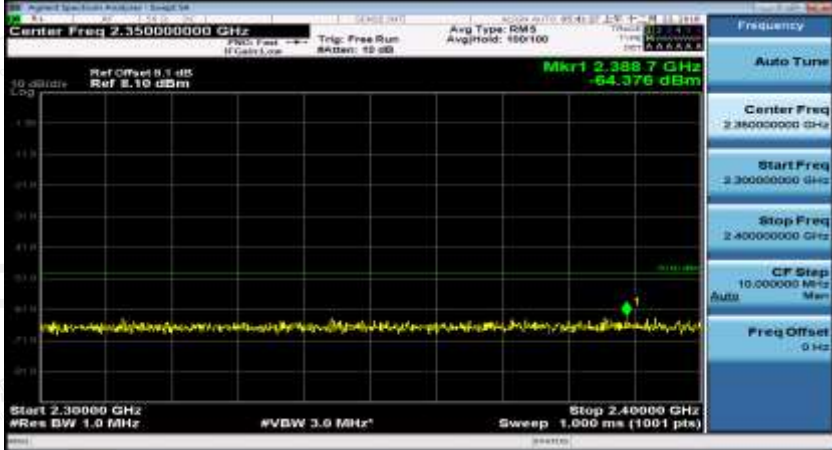
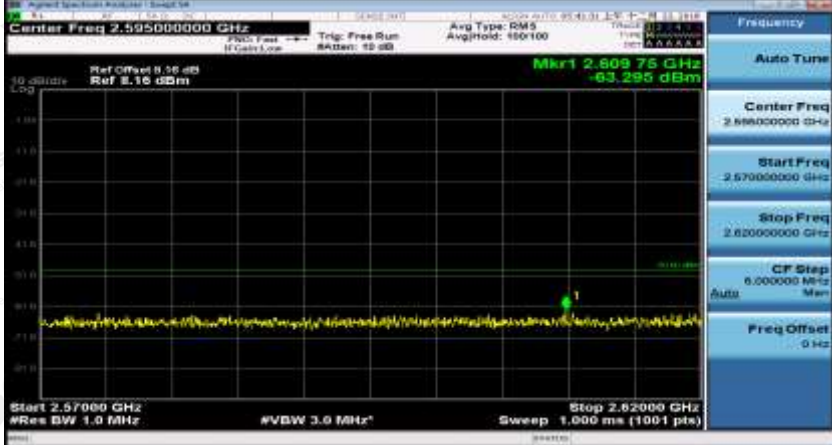
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General		
Co-existence		
Co-existence		

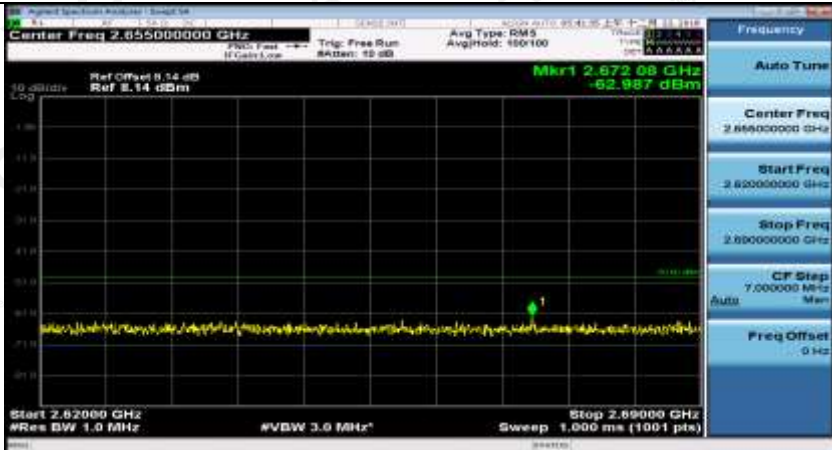

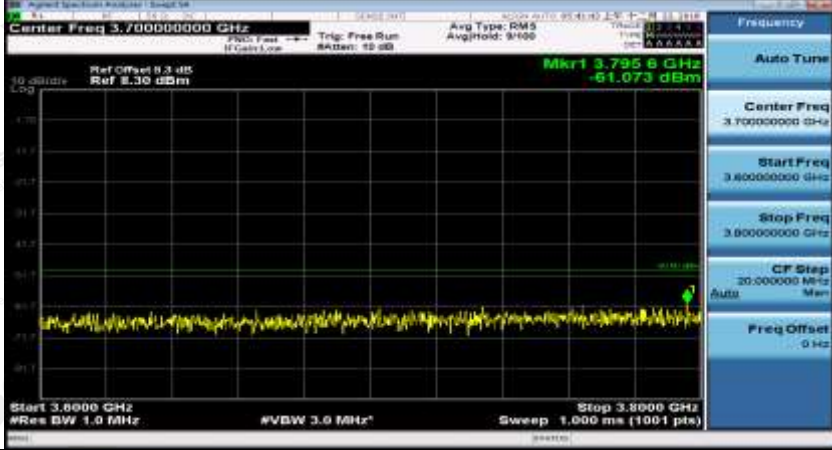
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Co-existence	
Co-existence	
Co-existence	

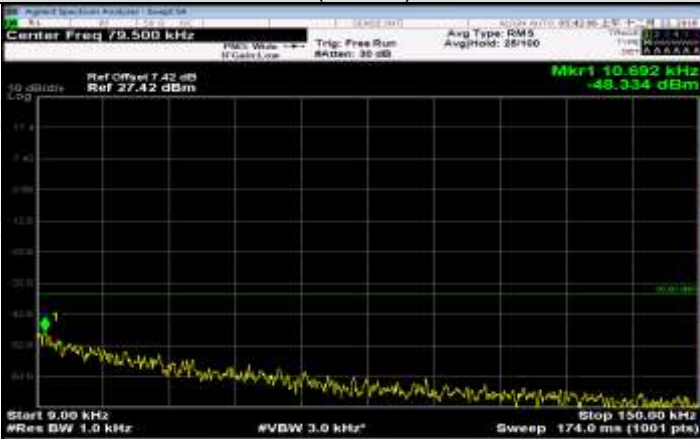

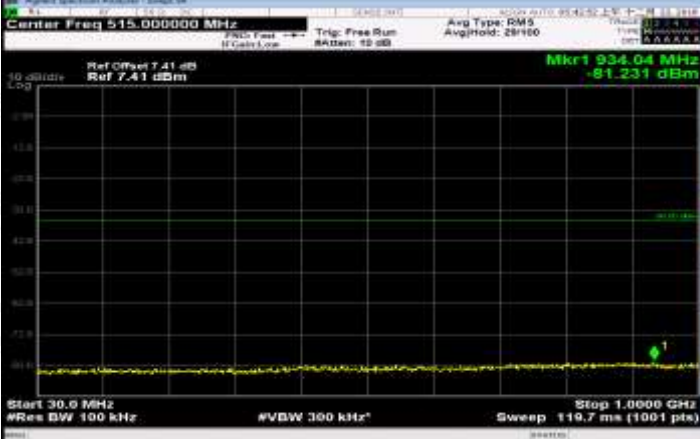
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Co-existence	
Co-existence	
Co-existence	

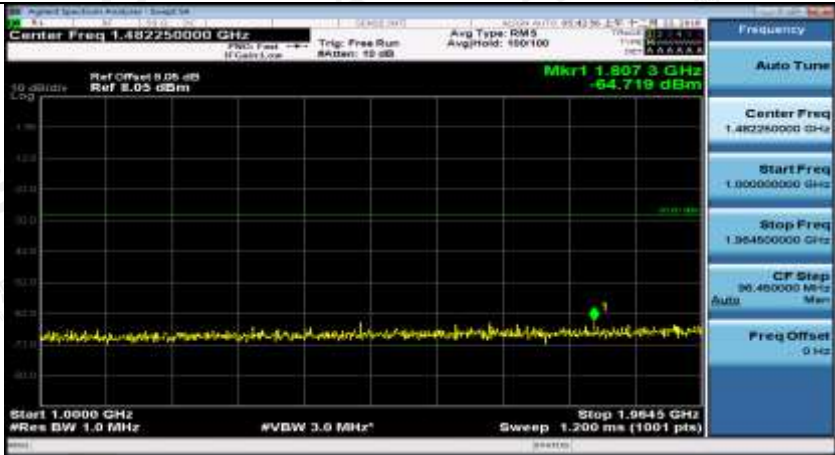
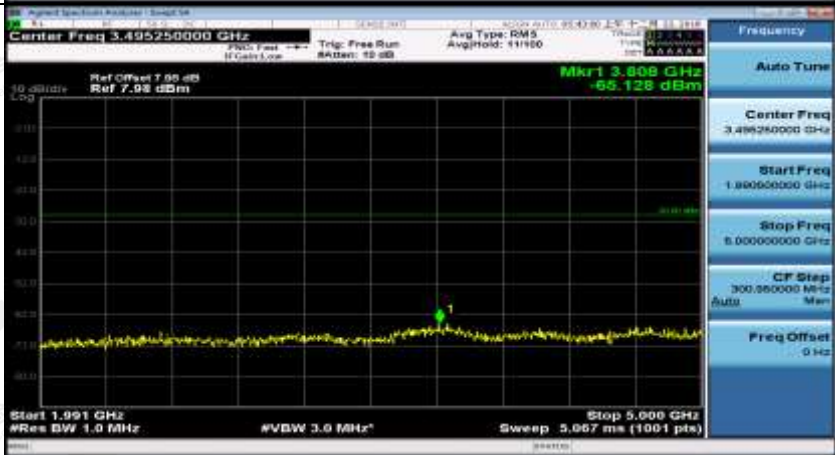

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Co-existence	
Co-existence	
Co-existence	
Additional	NA


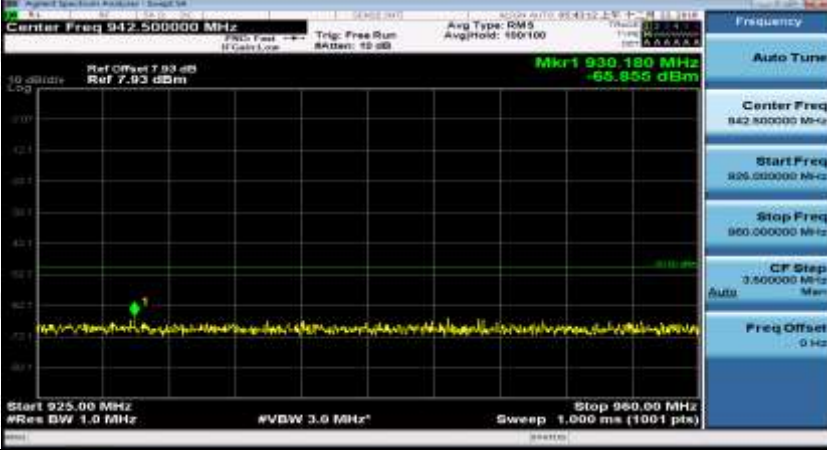
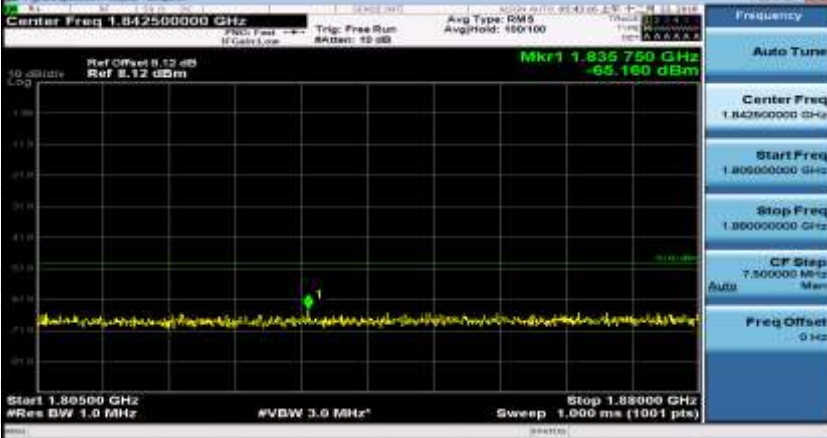
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Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0			
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 9.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.385000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

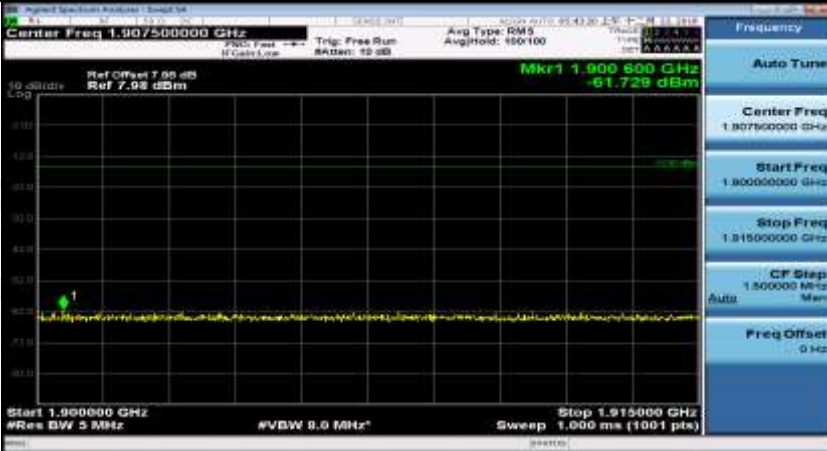
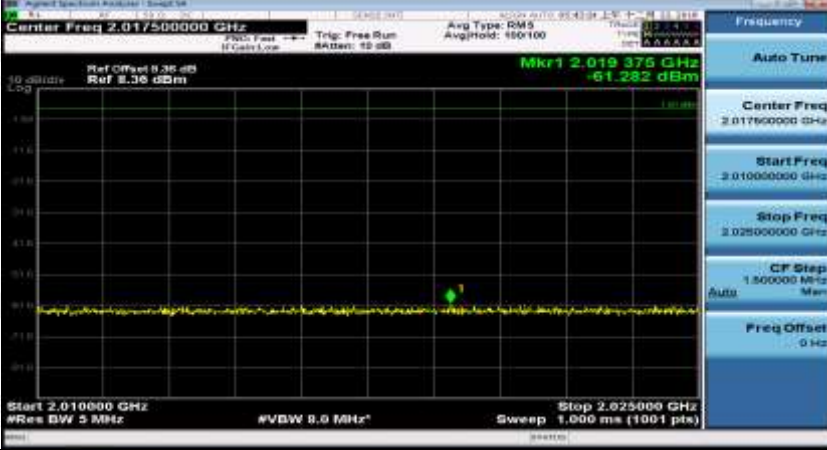
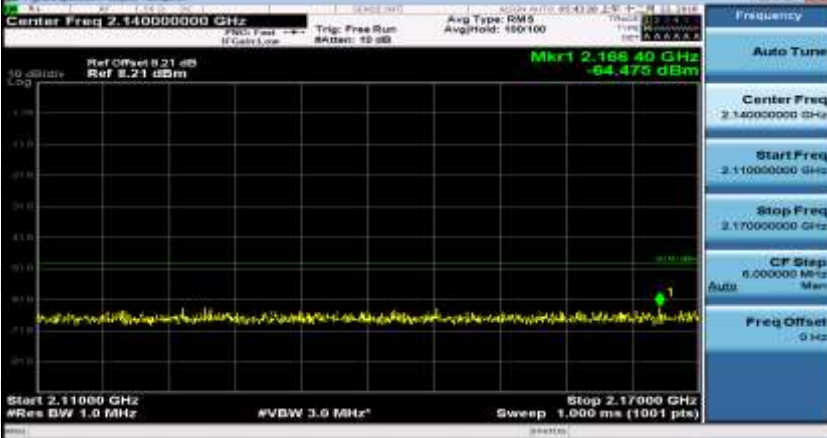
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General			
General			
General			

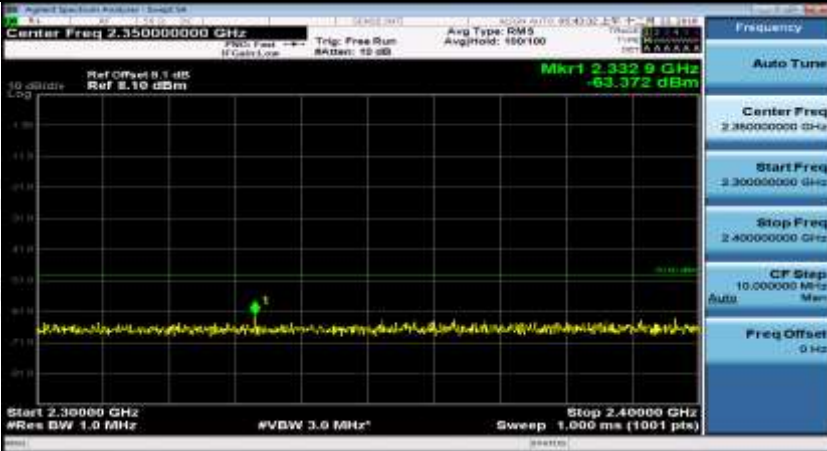
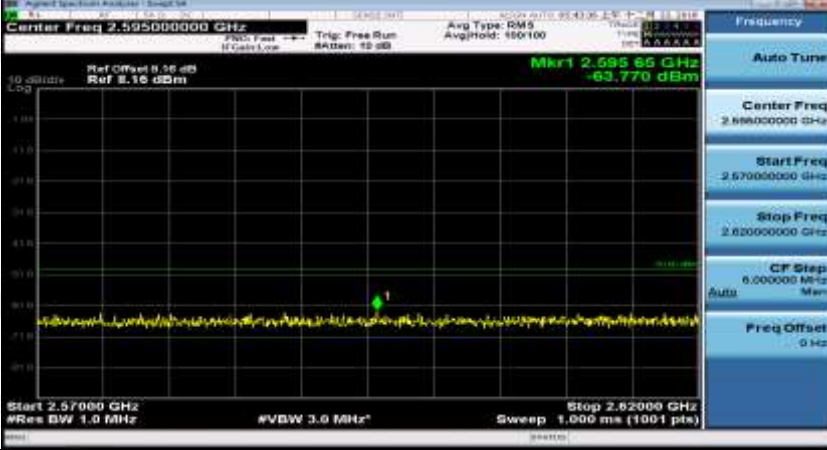
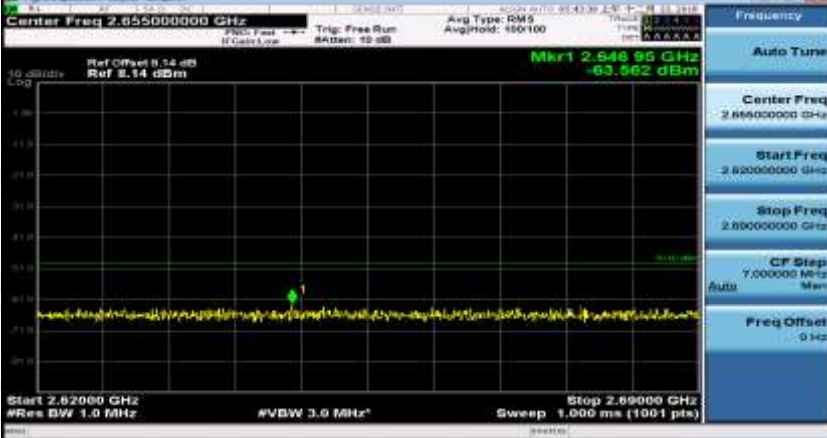
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Co-existence	
Co-existence	
Co-existence	


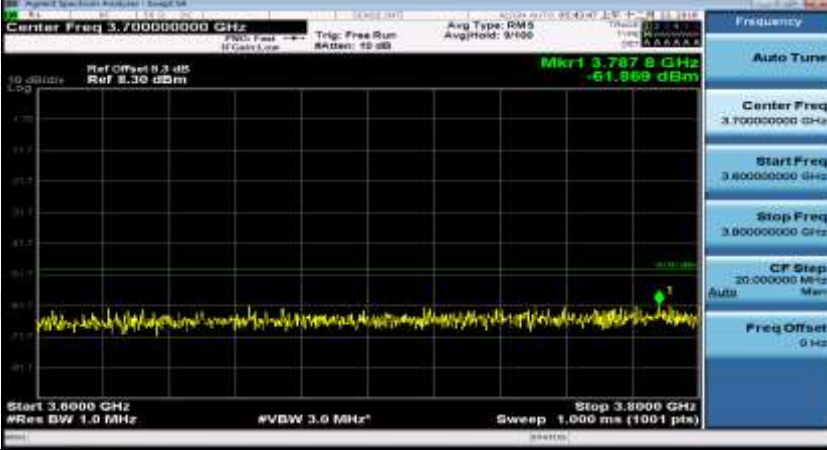
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Co-existence	
Co-existence	
Co-existence	

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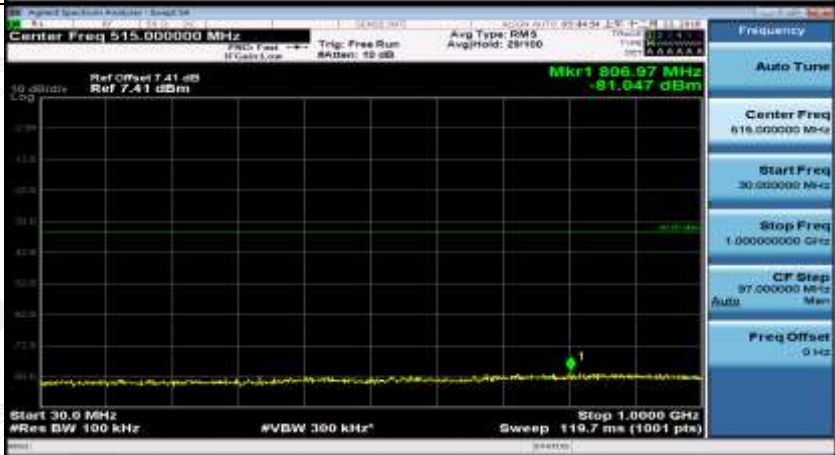
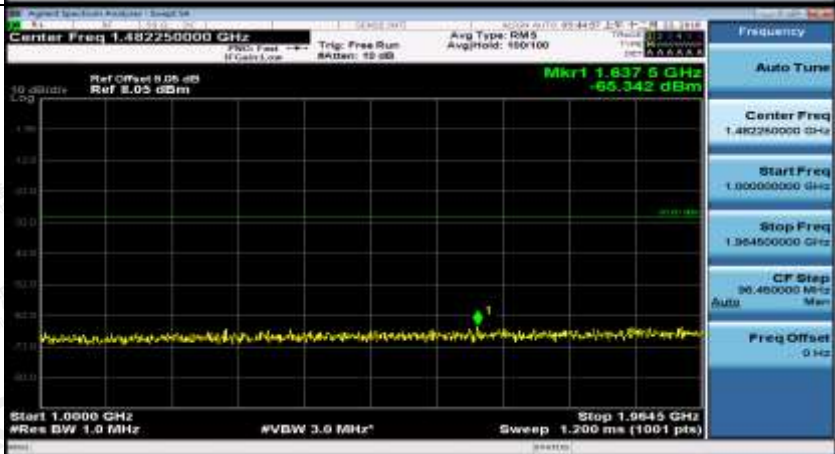
Co-existence	
Co-existence	
Co-existence	

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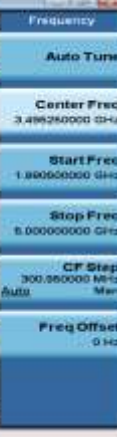

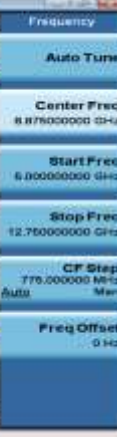

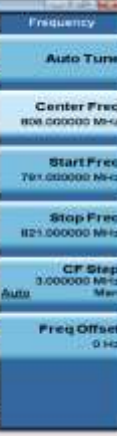
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	

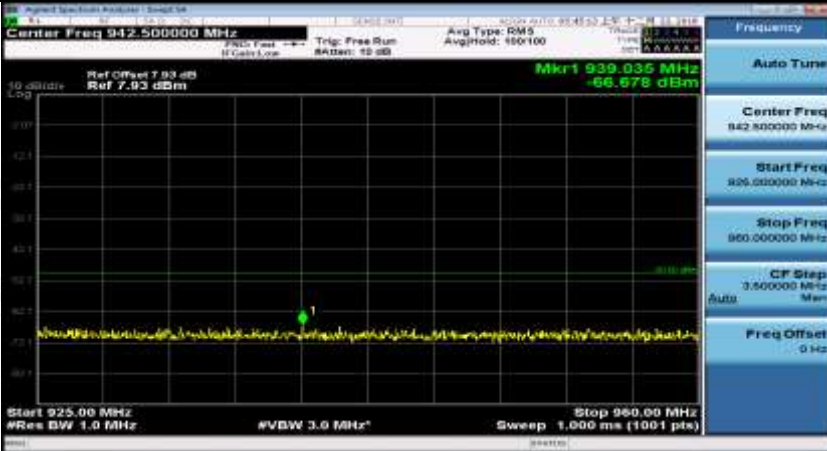
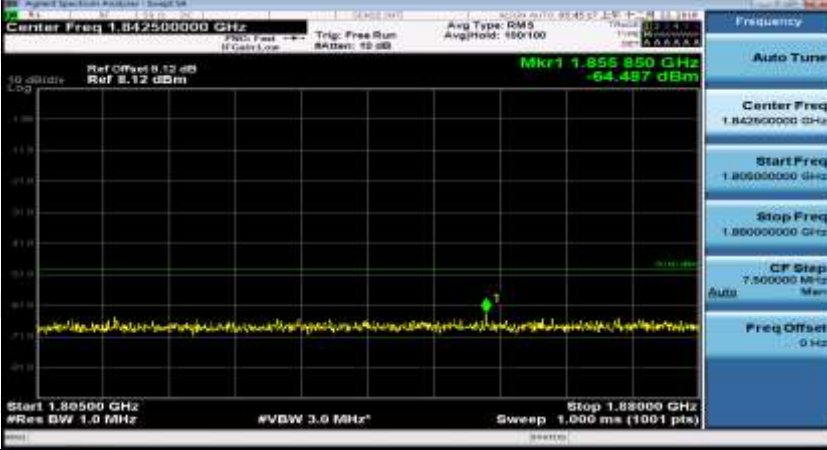

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General			
General			
General			

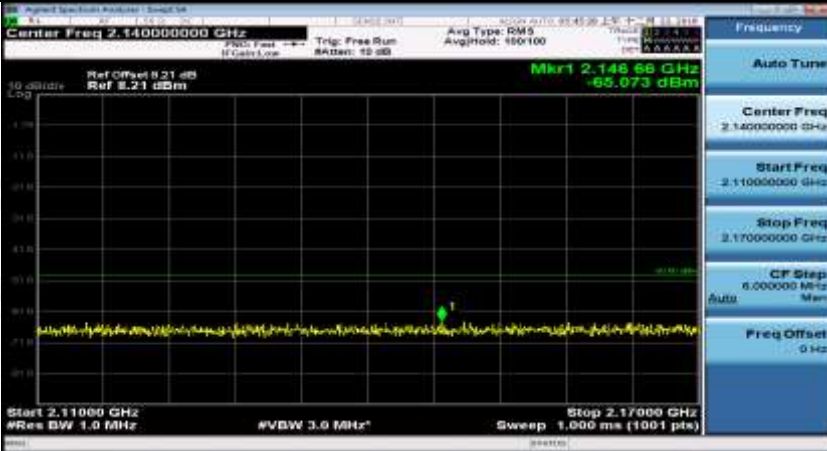
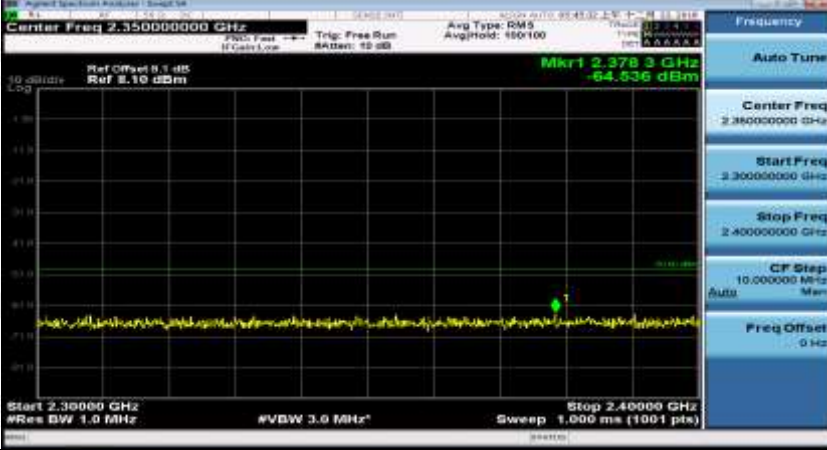
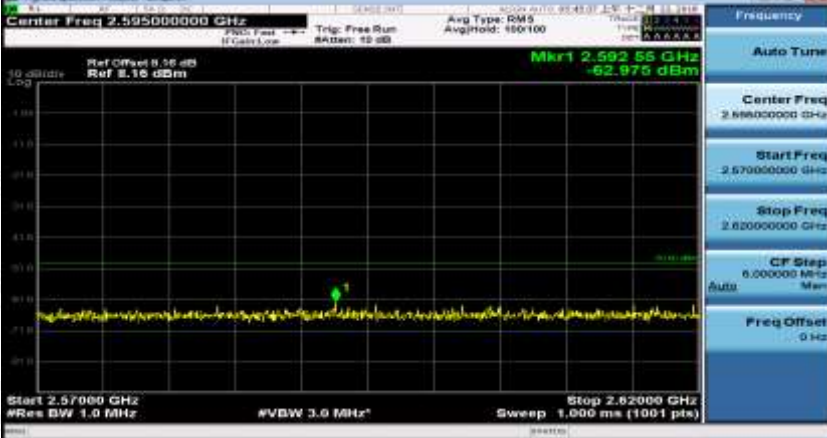
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General			
General			
Co-existence			

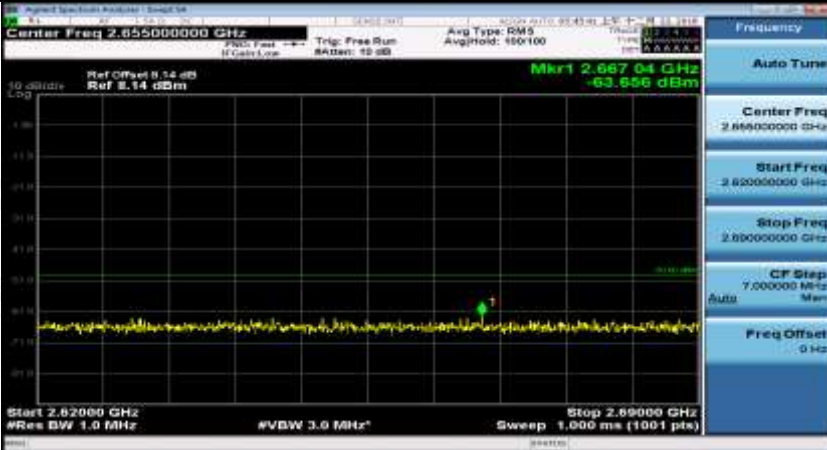
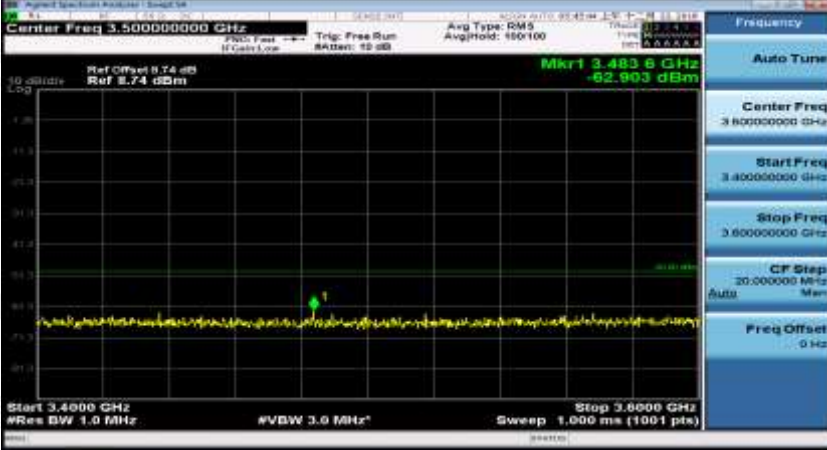
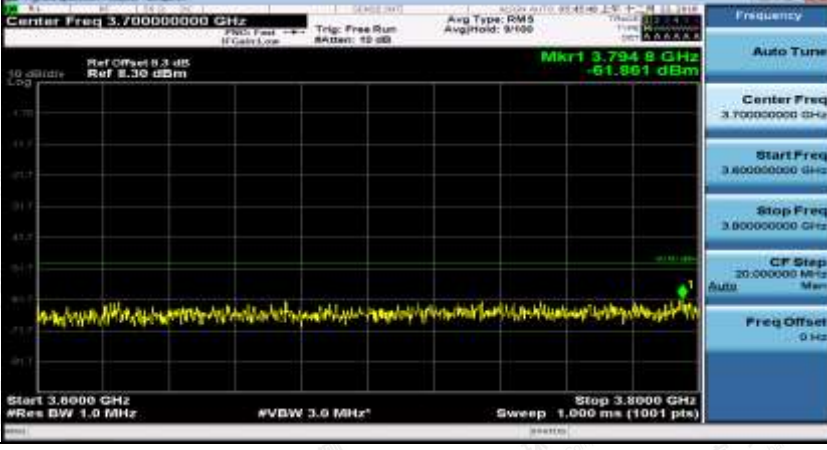
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Co-existence	
Co-existence	
Co-existence	

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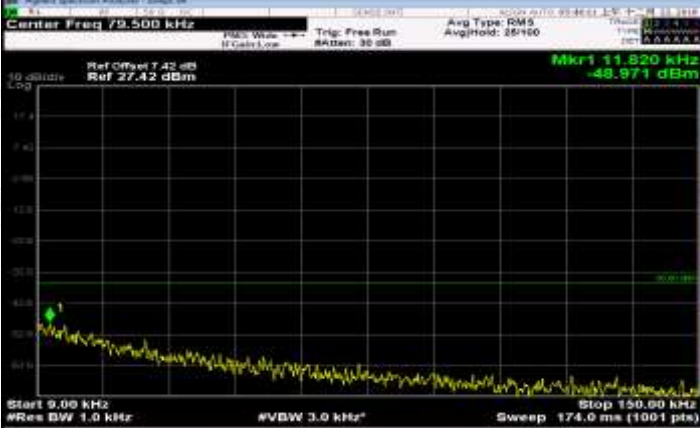
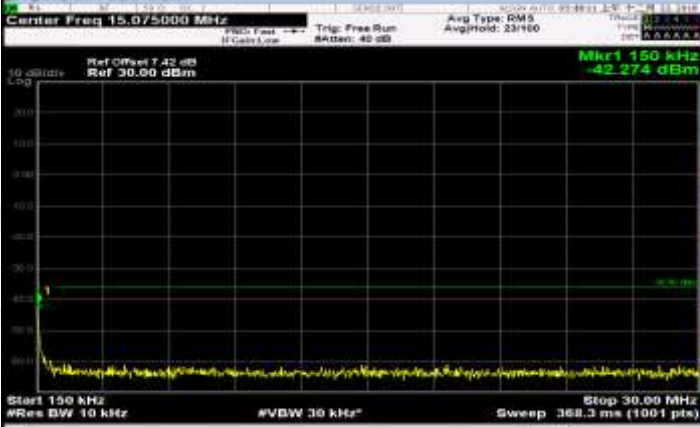
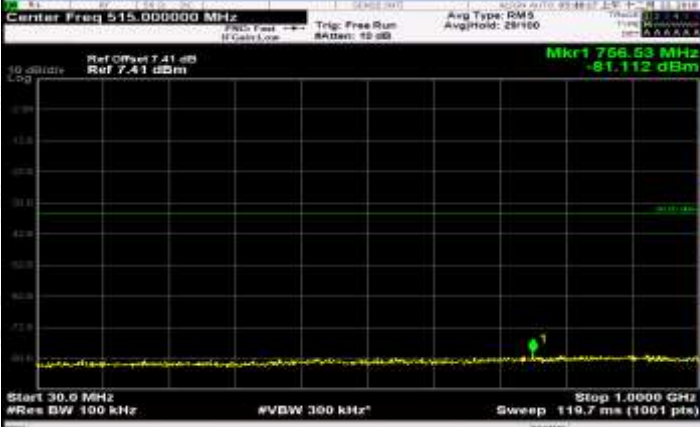
Co-existence	
Co-existence	
Co-existence	

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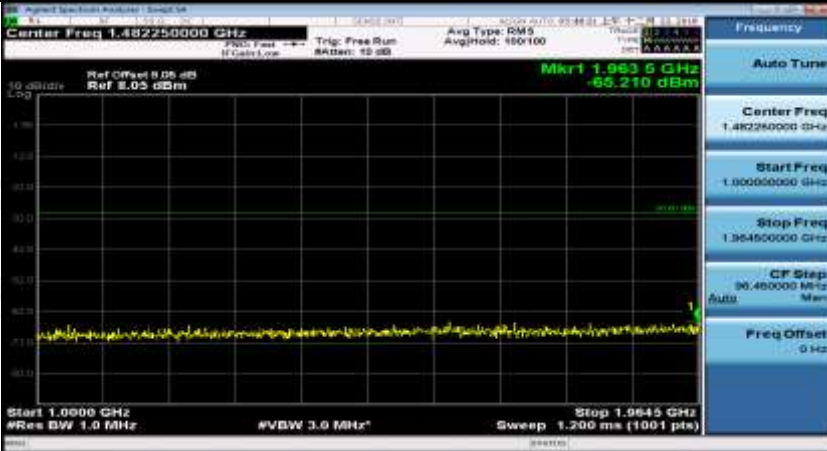
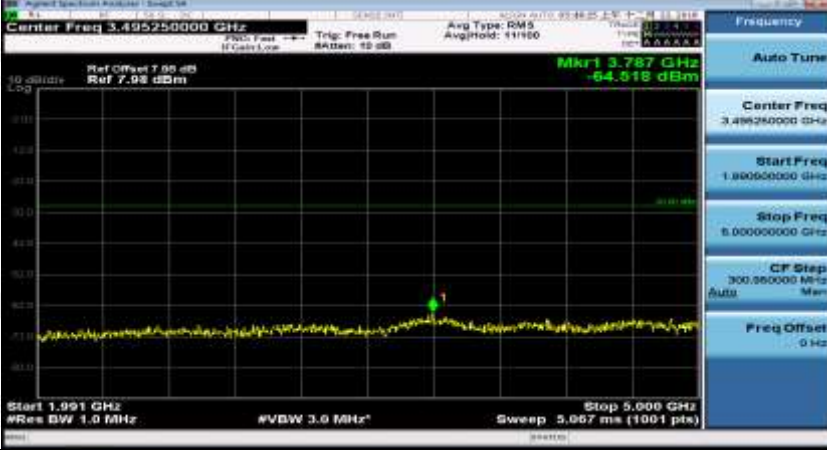

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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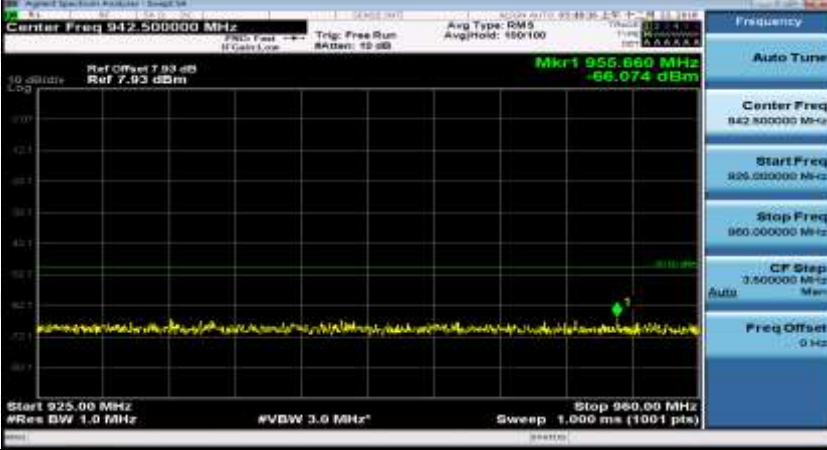
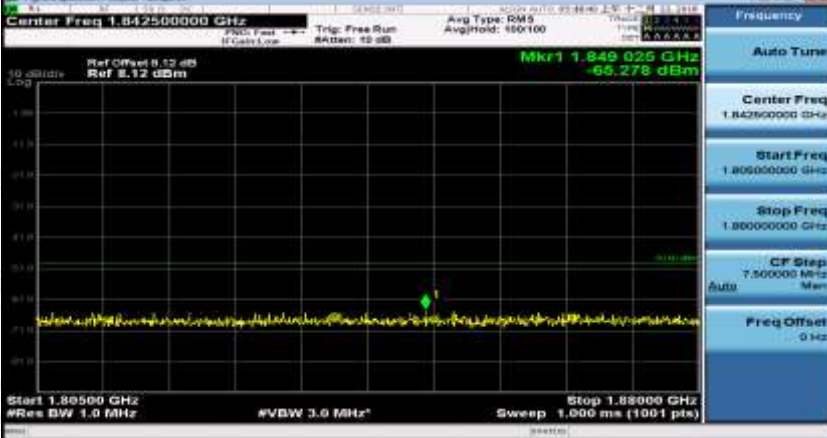
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullIRB#0

General	
General	
General	


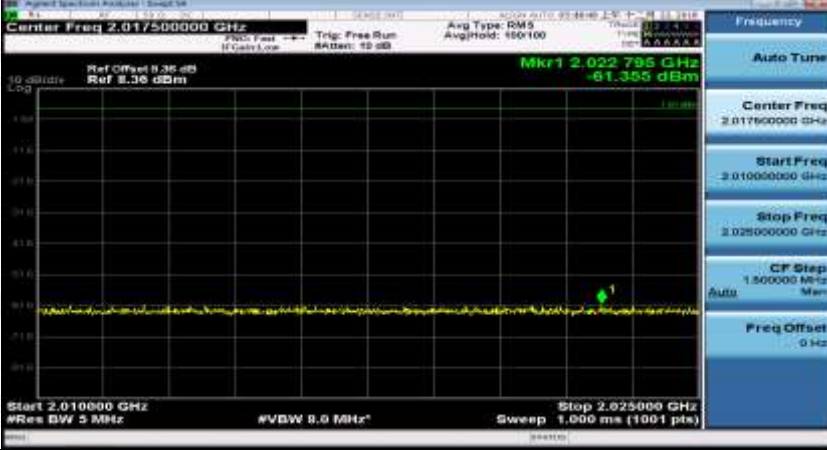
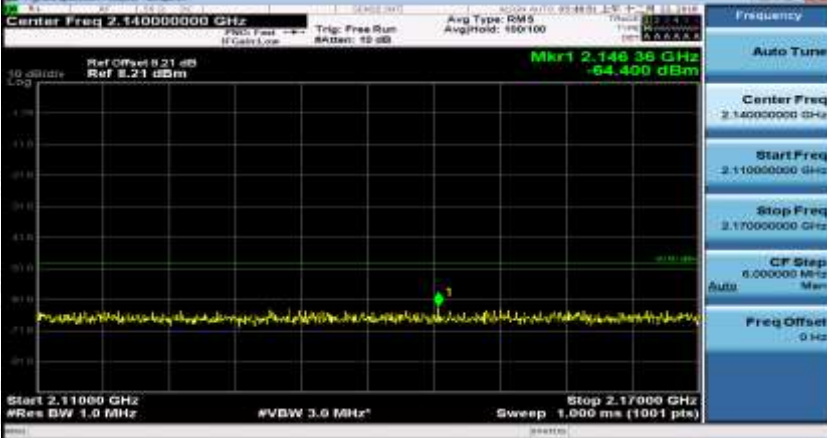
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General	
General	
General	

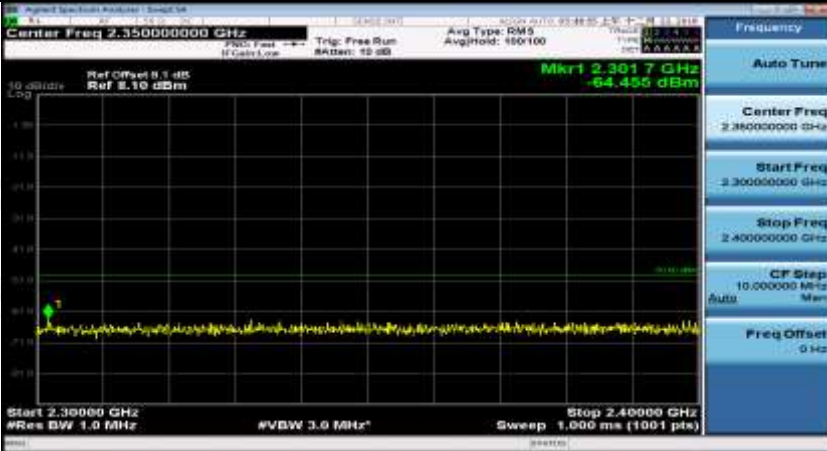

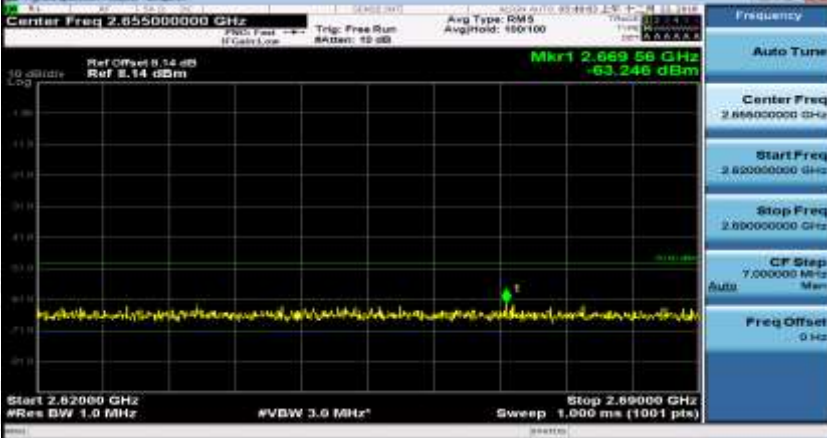
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

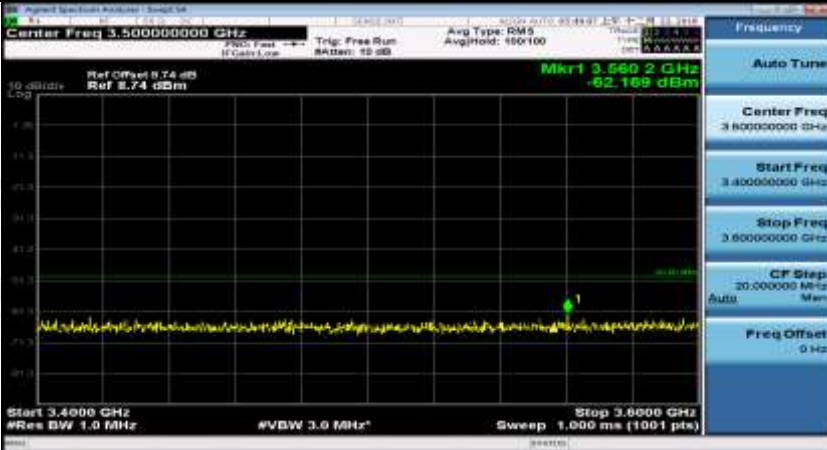
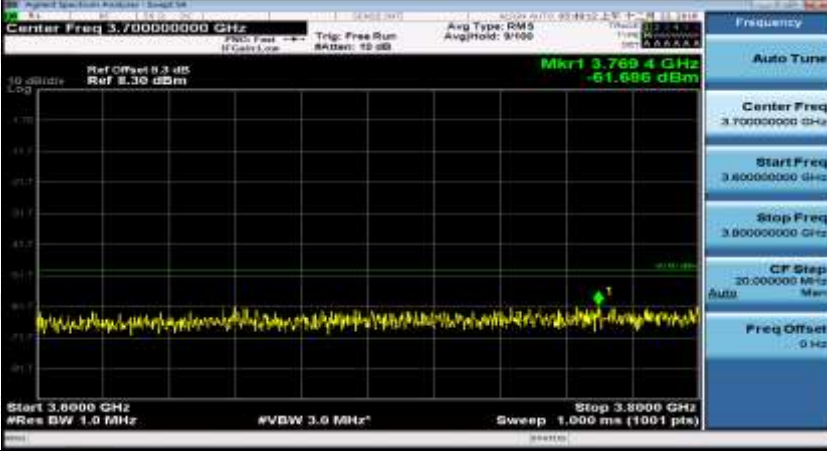
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Co-existence	
Co-existence	
Co-existence	

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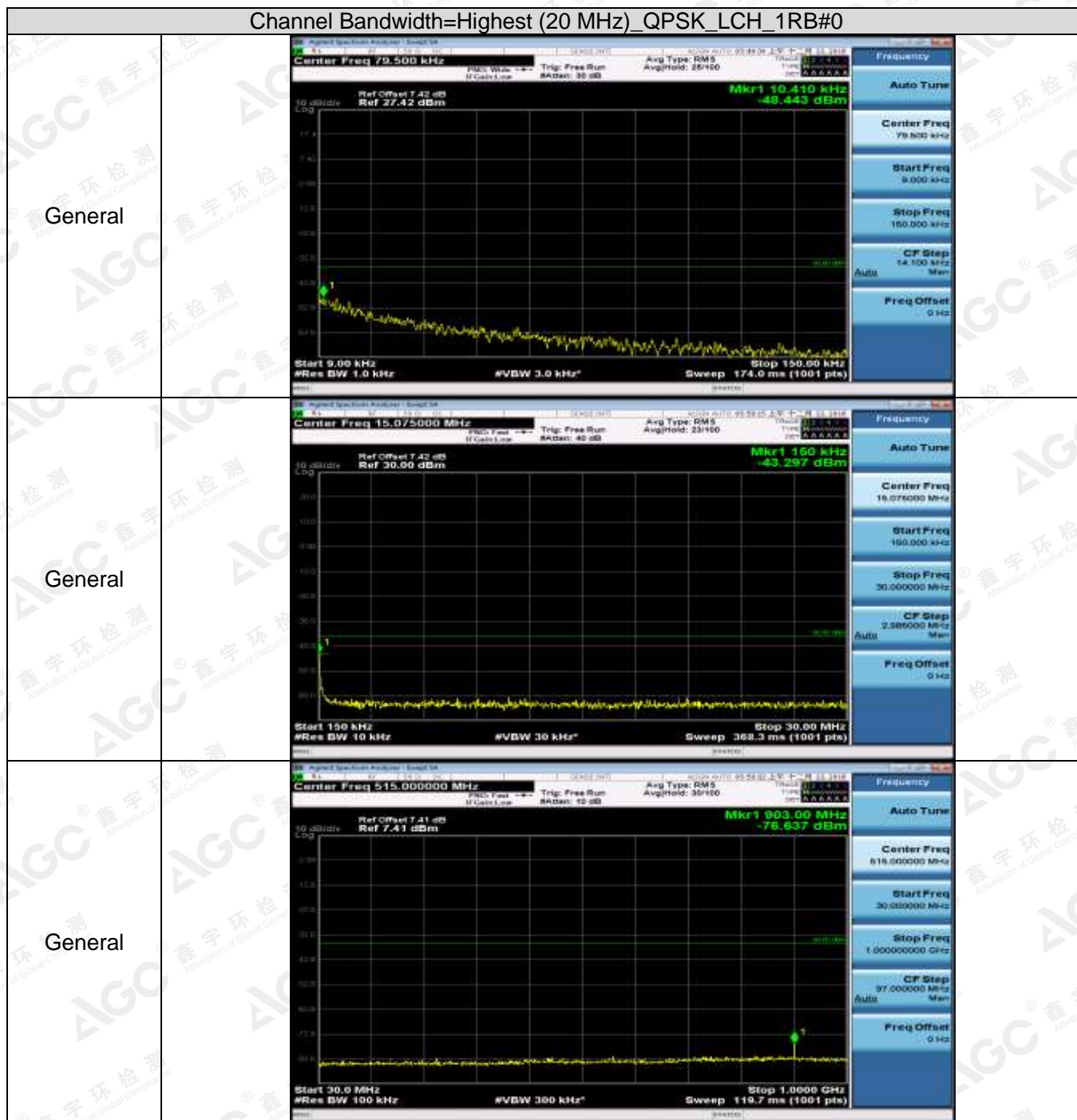
Co-existence	
Co-existence	
Co-existence	

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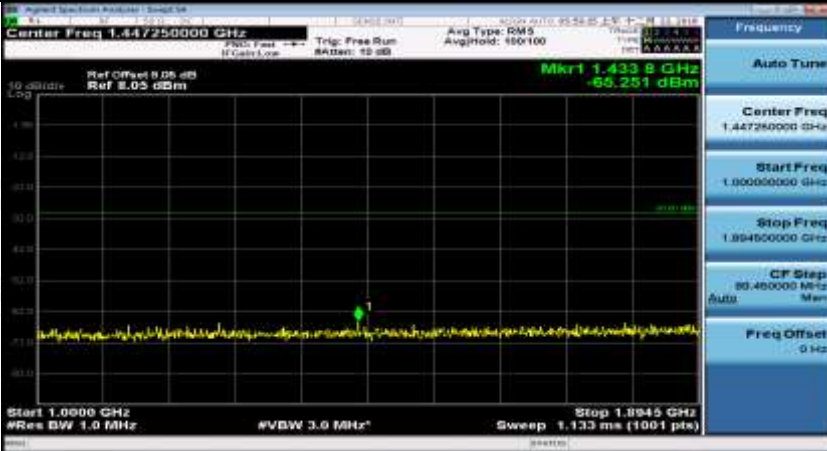
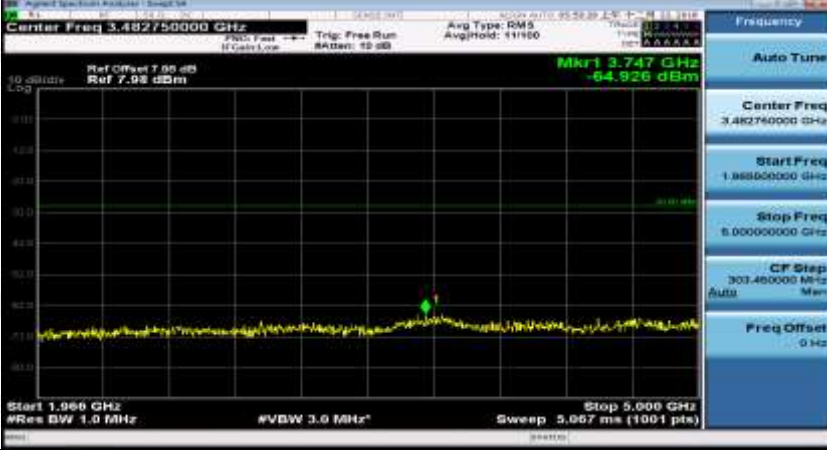
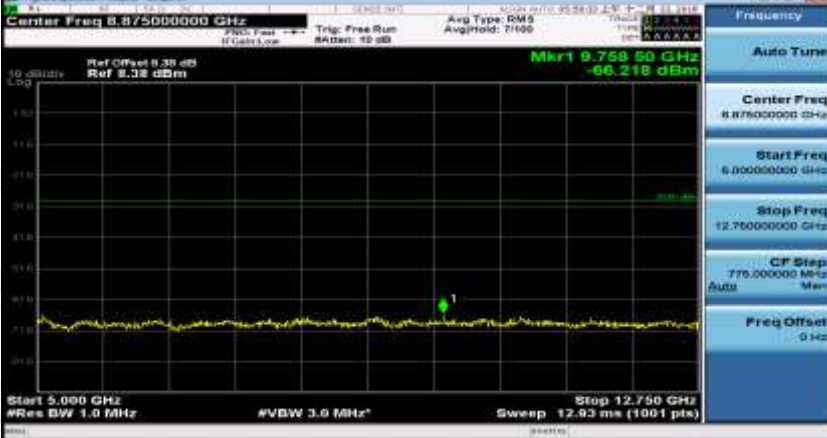
Co-existence	
Co-existence	
Additional	NA

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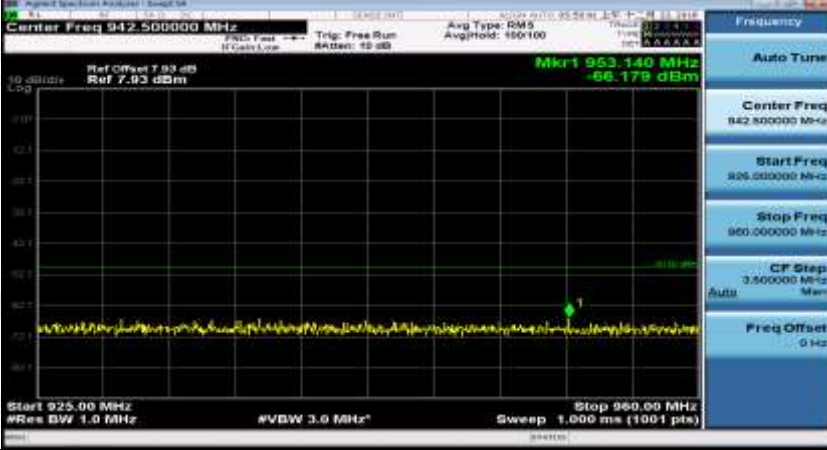
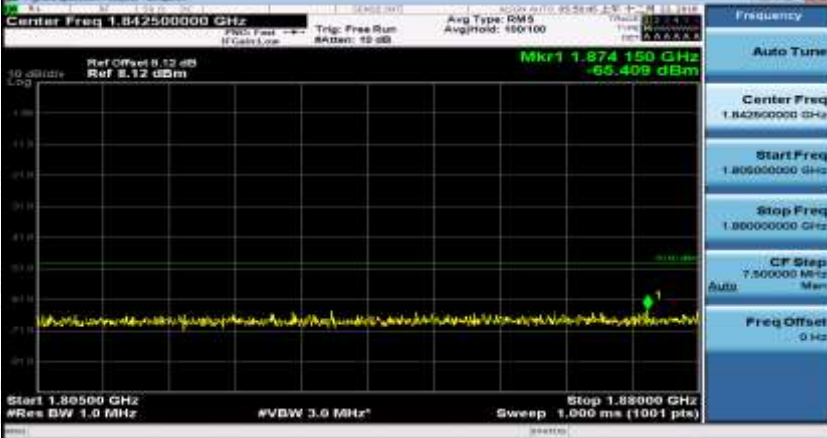
Channel Bandwidth= (20 MHz)



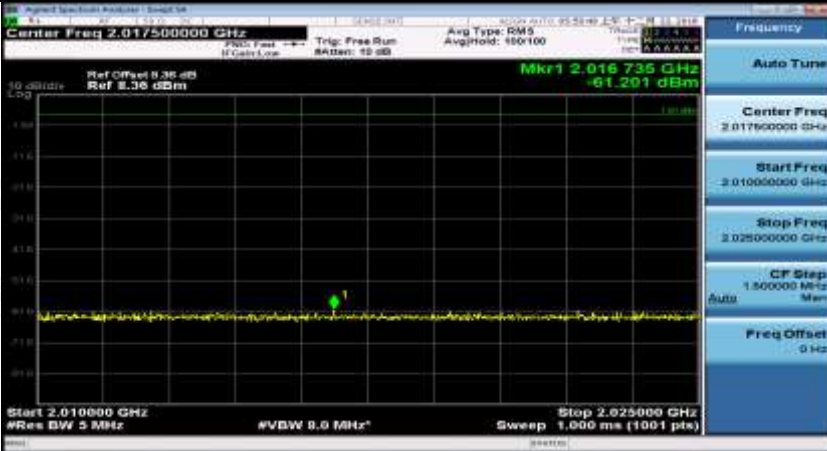

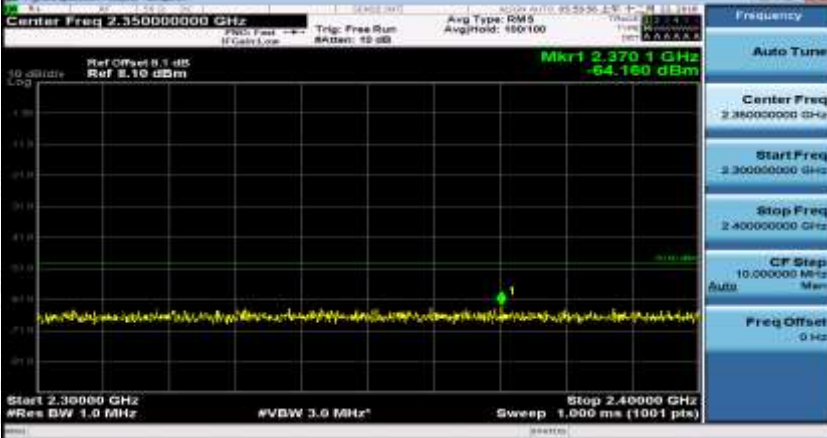
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General	
General	
General	


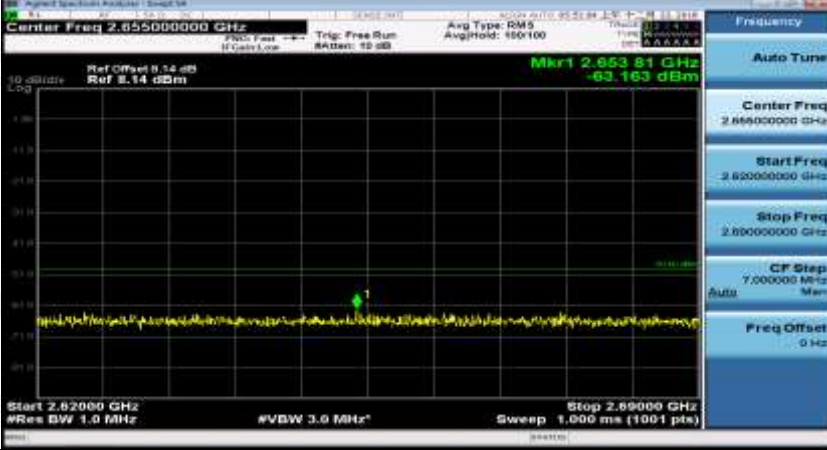

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Co-existence	
Co-existence	
Co-existence	

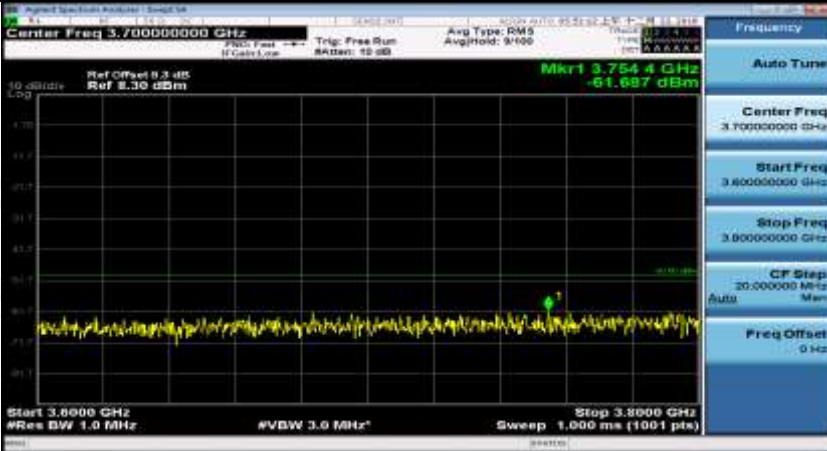
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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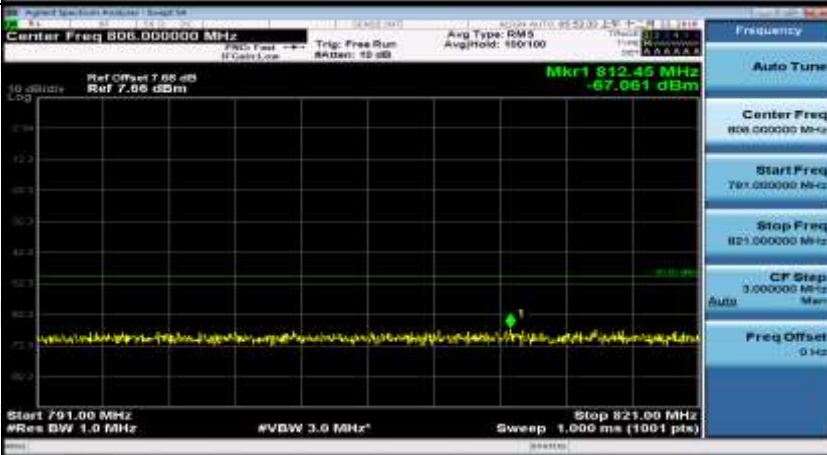

Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	
General	

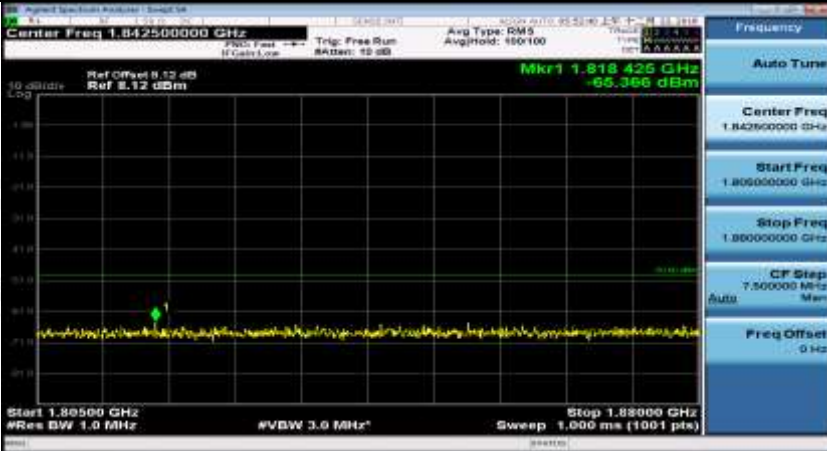
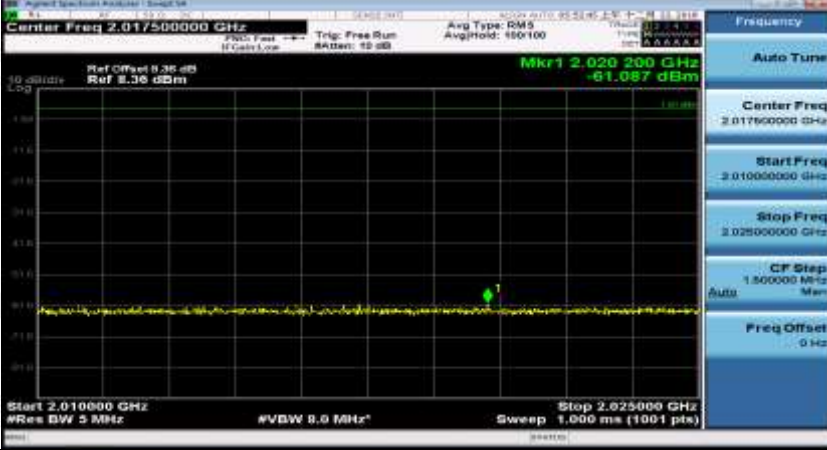
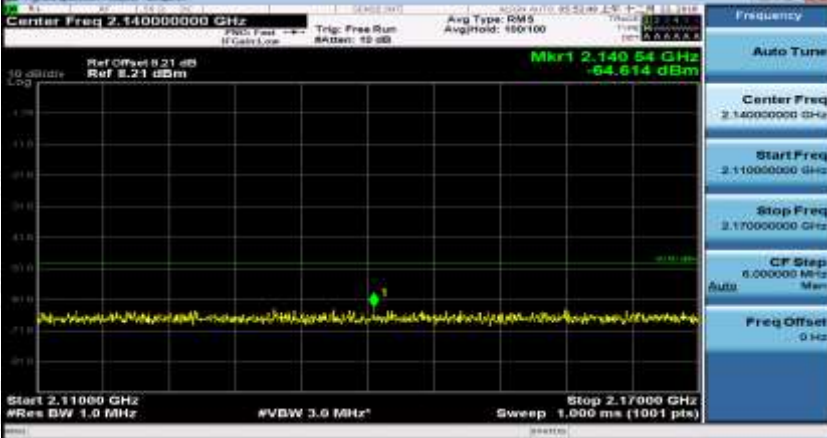
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General	
General	
General	

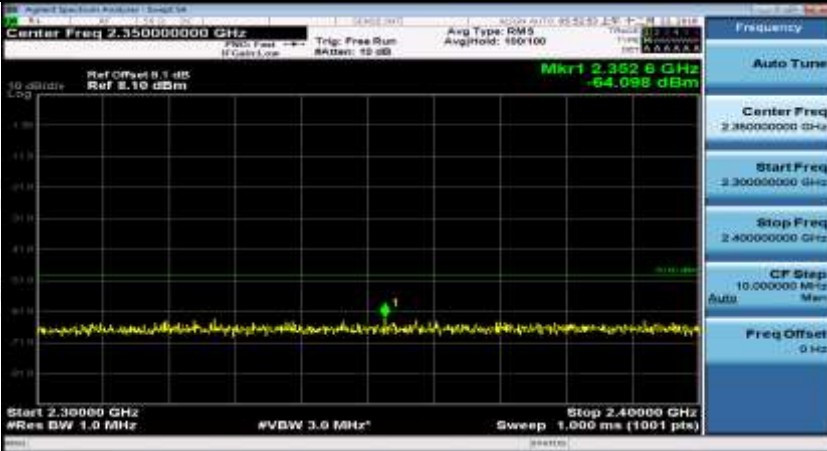
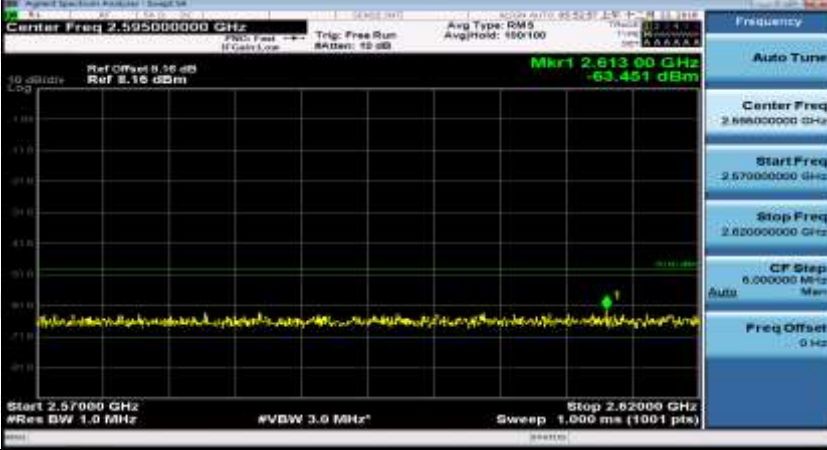
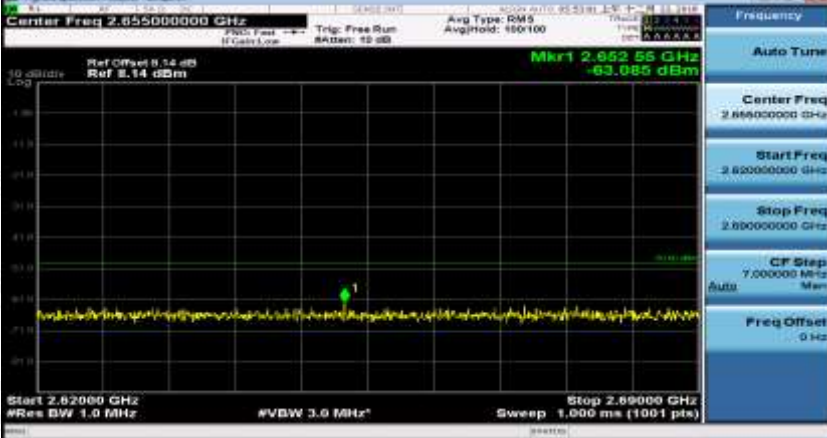
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General	
Co-existence	
Co-existence	

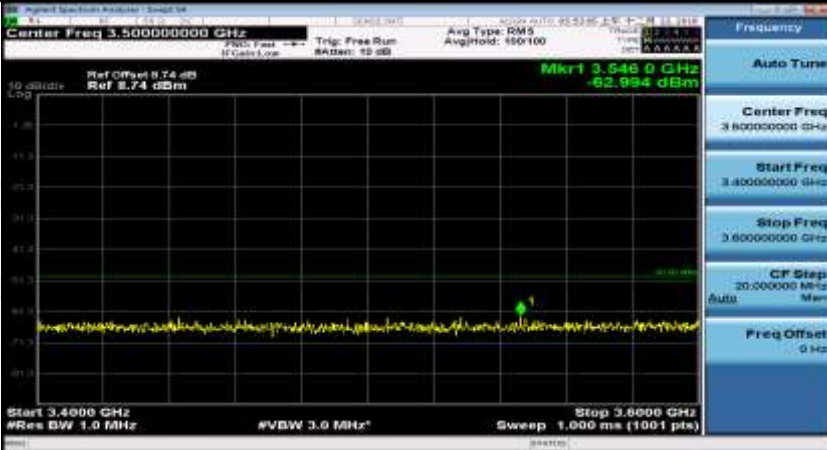
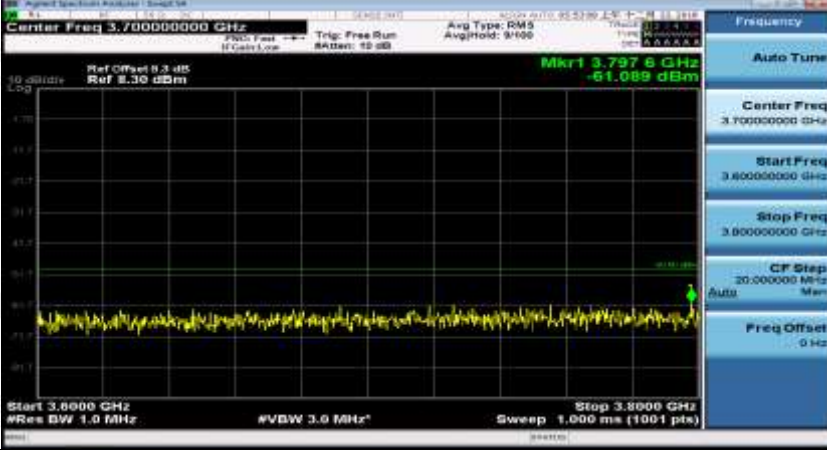
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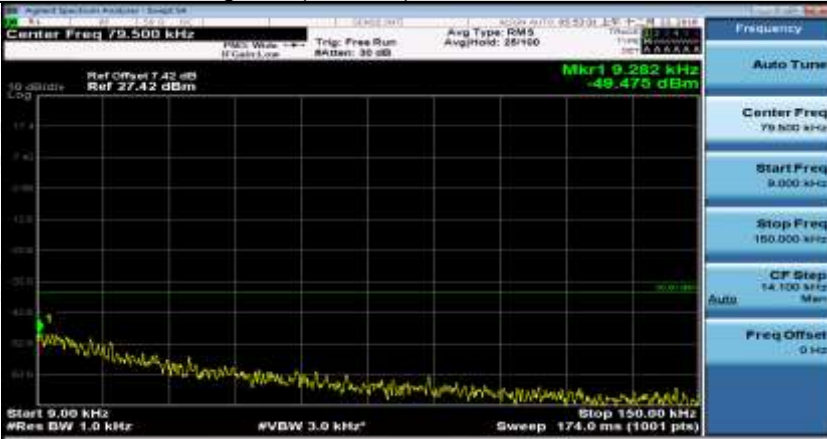
Co-existence	
Co-existence	
Co-existence	

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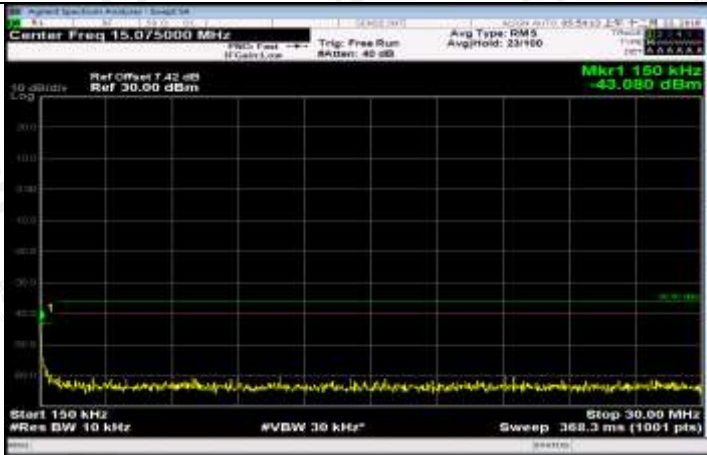
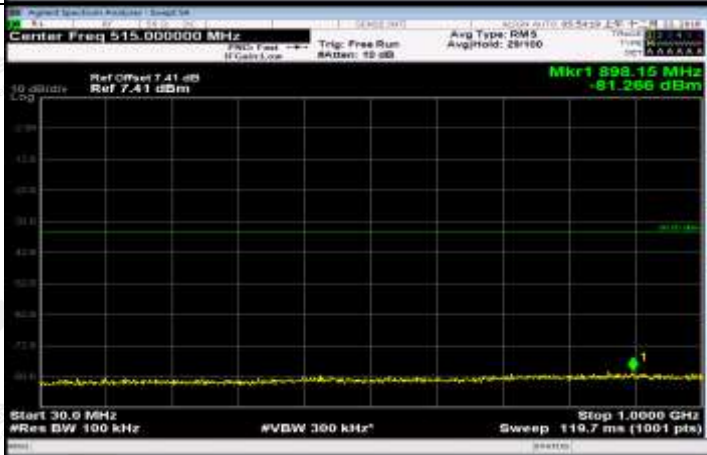
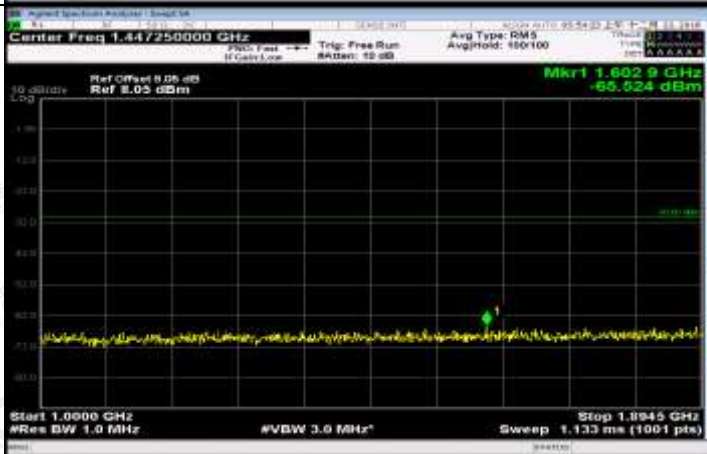
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	


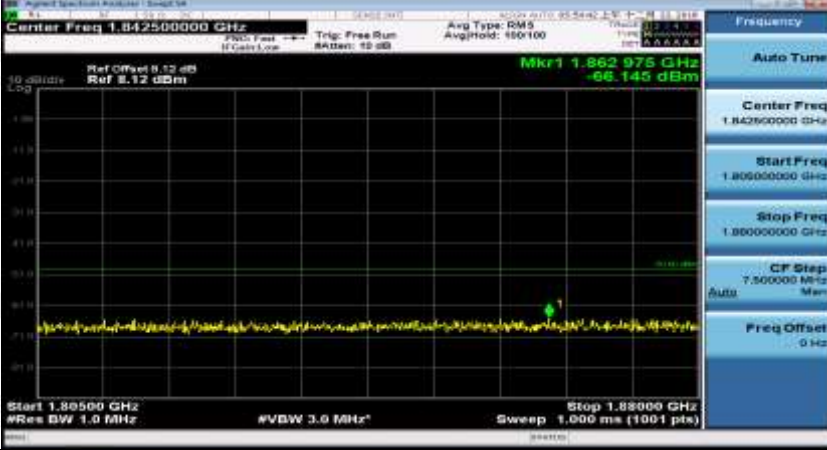

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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.00000 MHz</p> <p>CF Step 2.300000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.44725000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 1.89450000 GHz</p> <p>CF Step 80.400000 MHz</p> <p>Freq Offset 0 Hz</p>

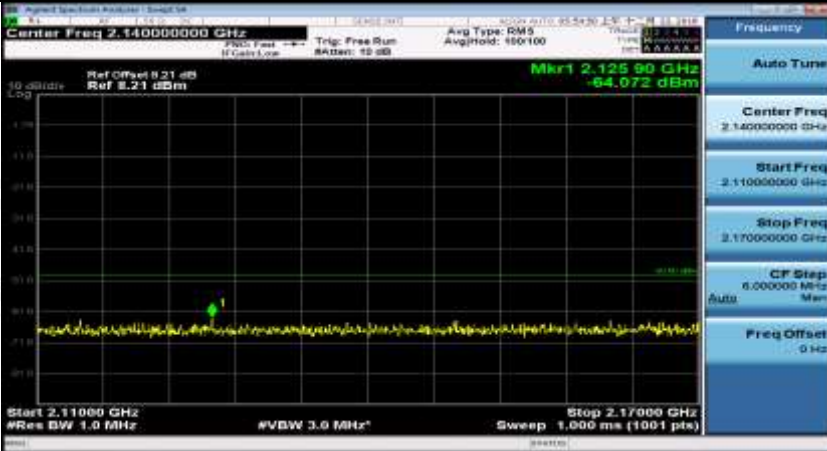
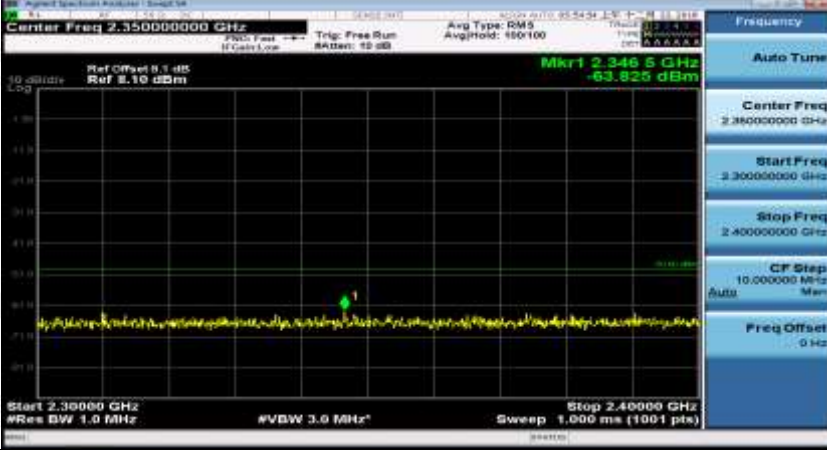
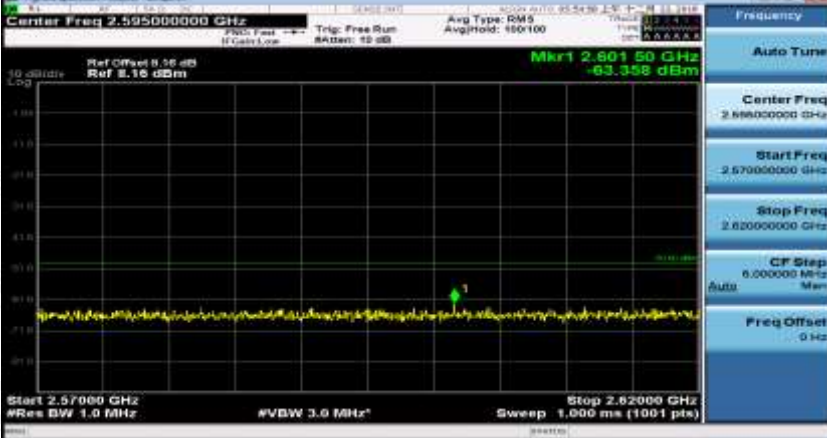
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.482750000 GHz</p> <p>Start Freq 1.966000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 303.460000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

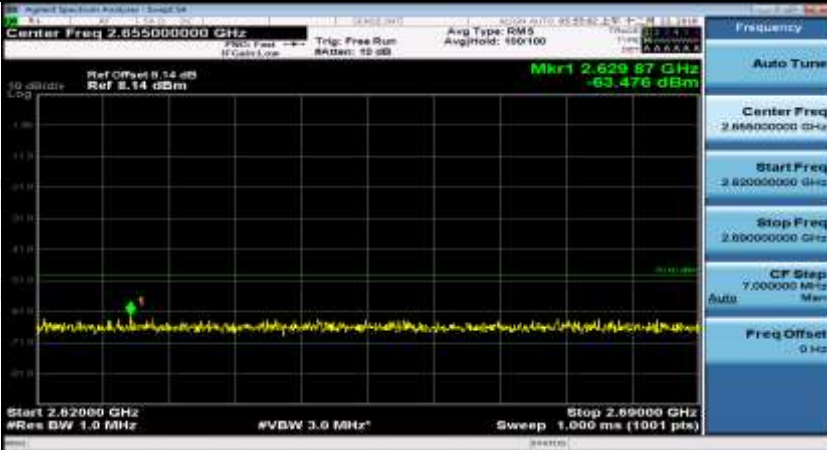
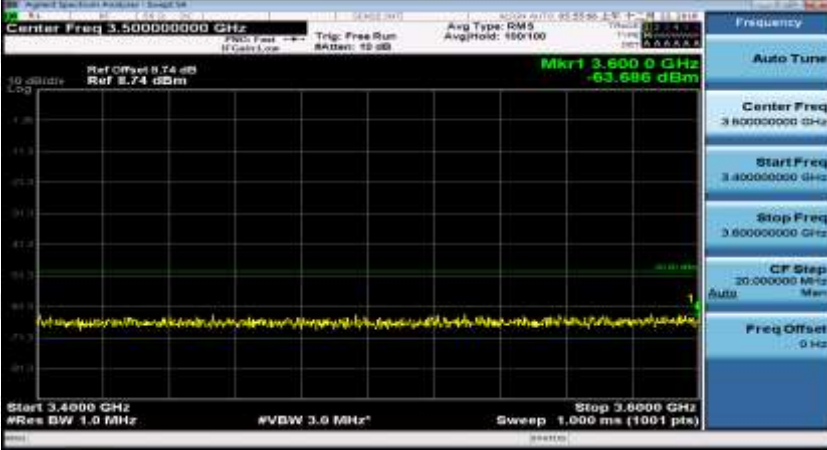
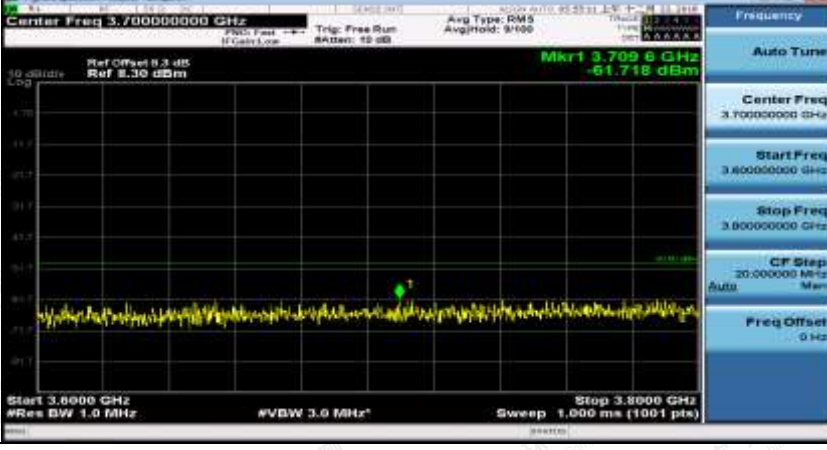
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Co-existence	
Co-existence	
Co-existence	

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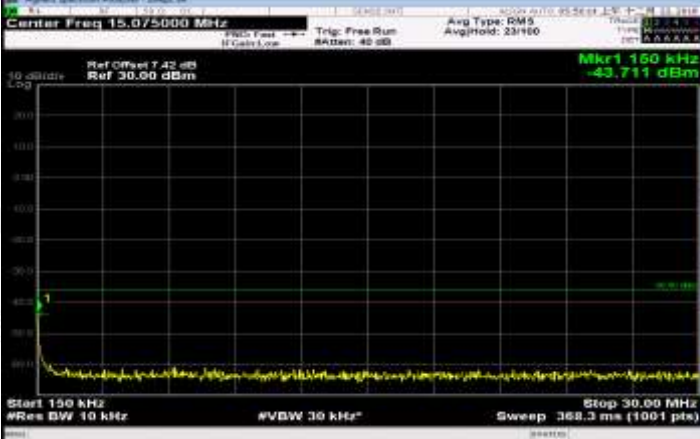

Co-existence	
Co-existence	
Co-existence	

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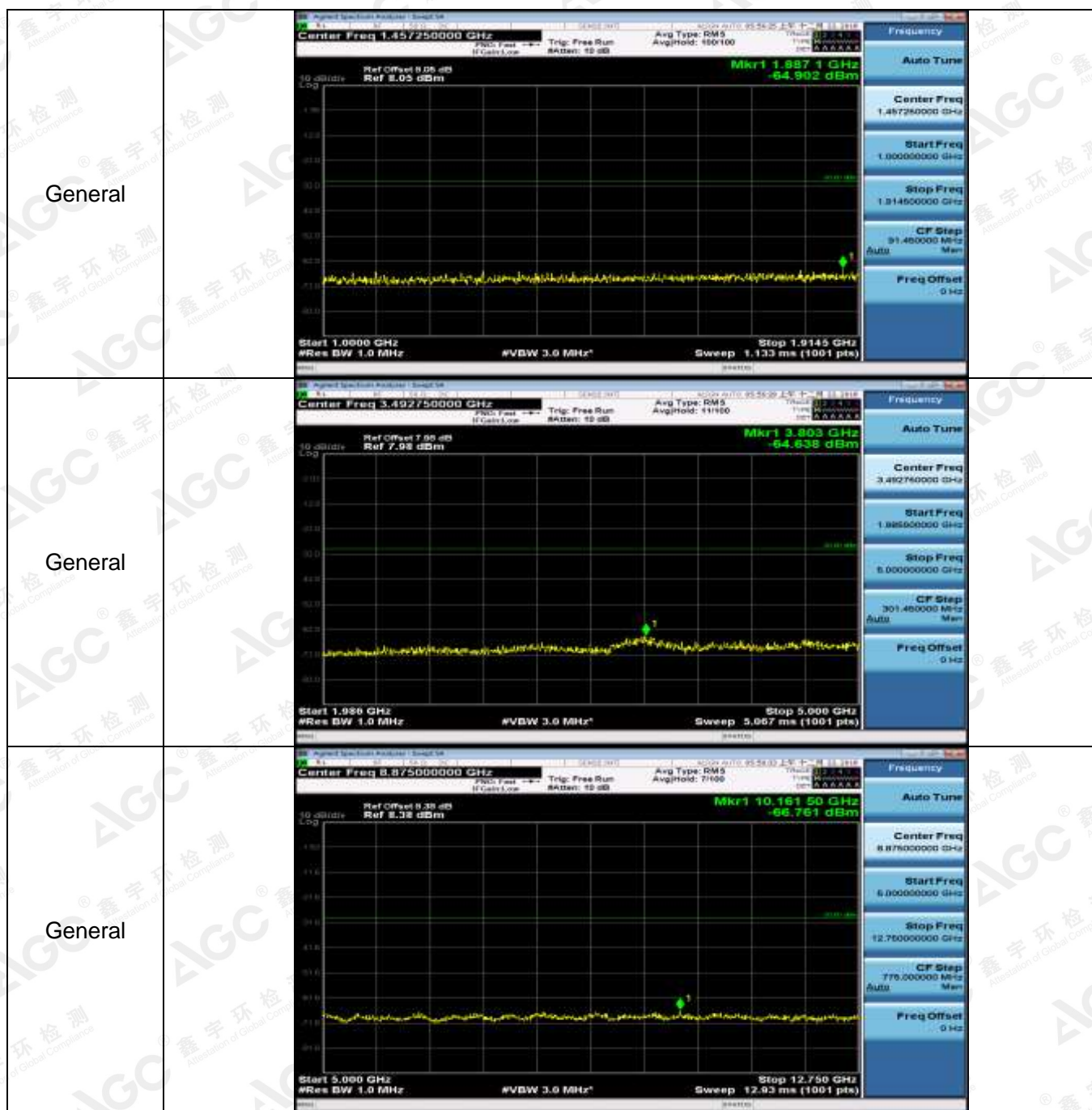
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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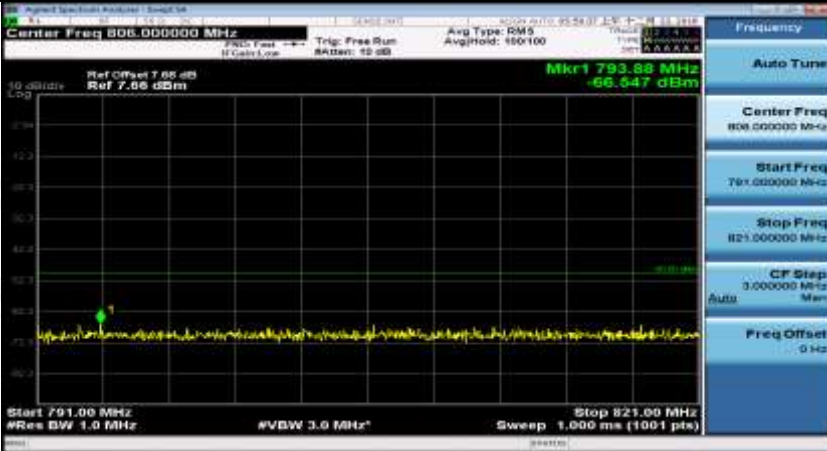
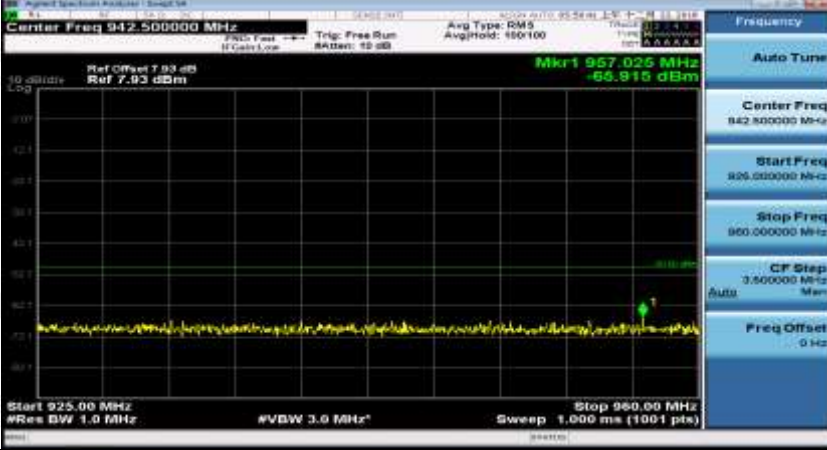
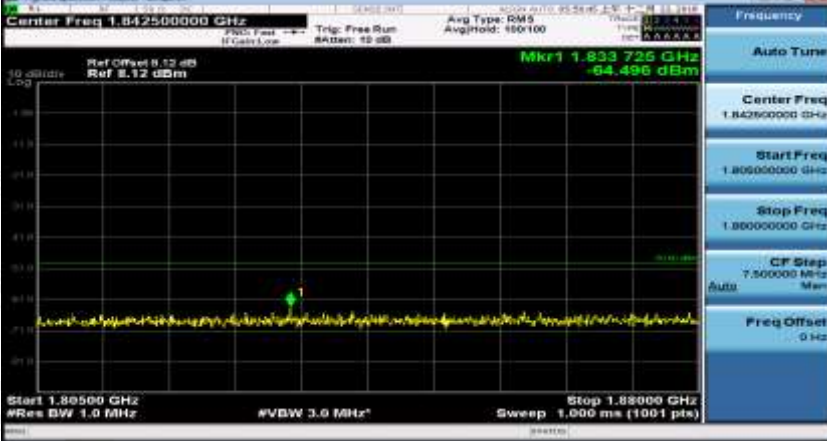
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

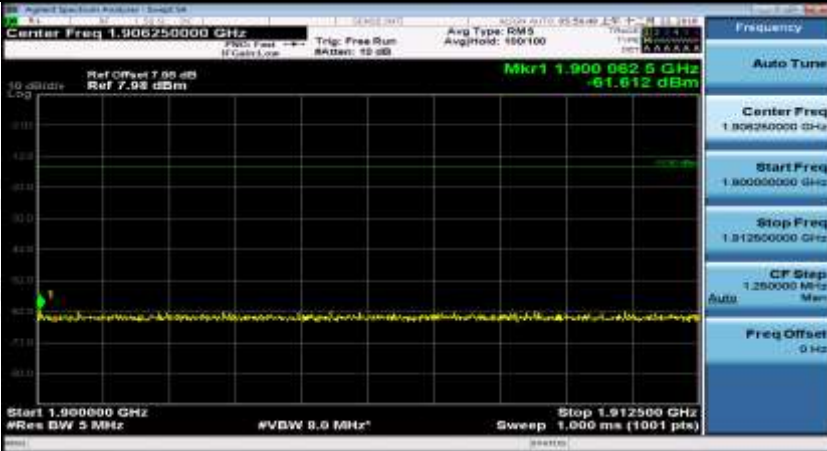
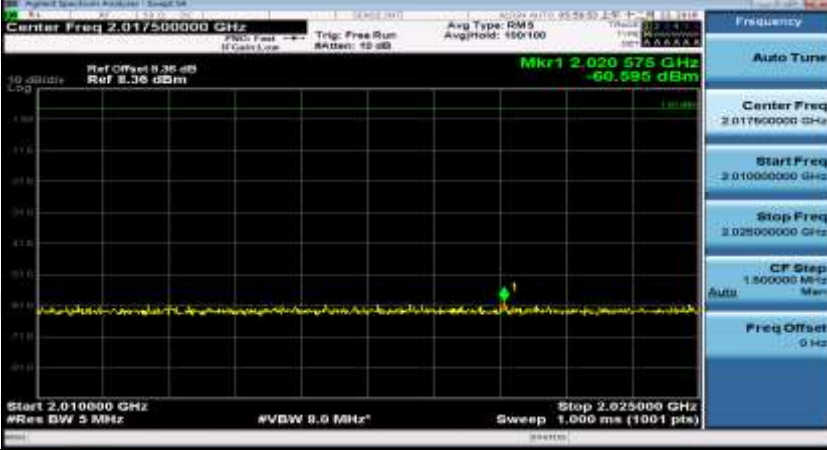
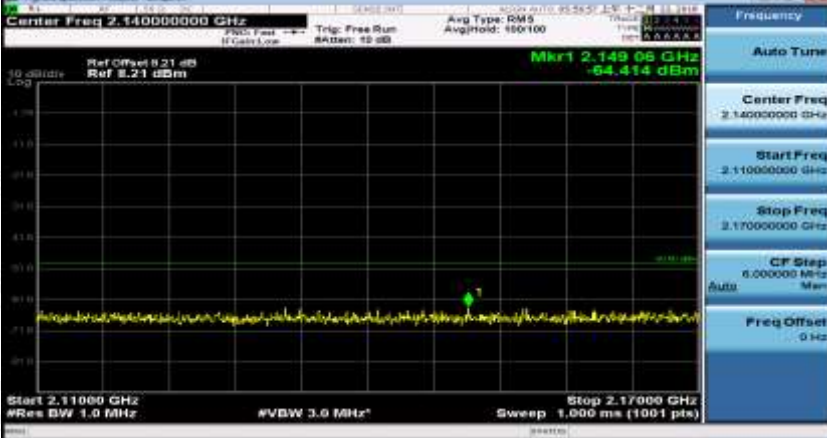
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Co-existence	
Co-existence	
Co-existence	

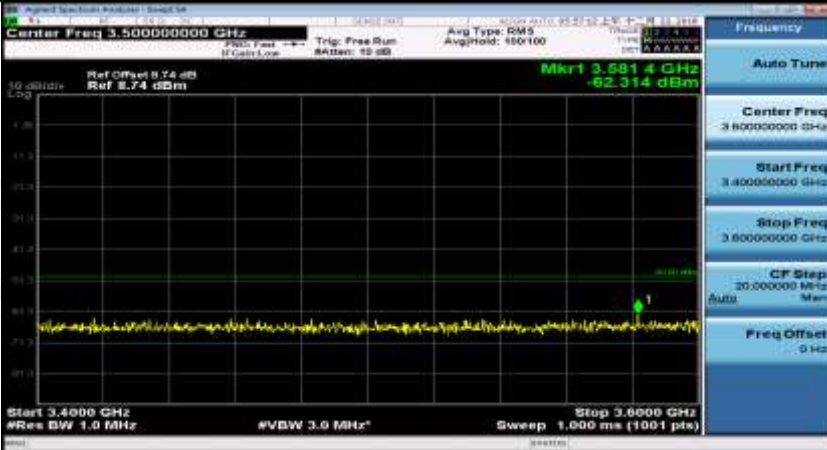
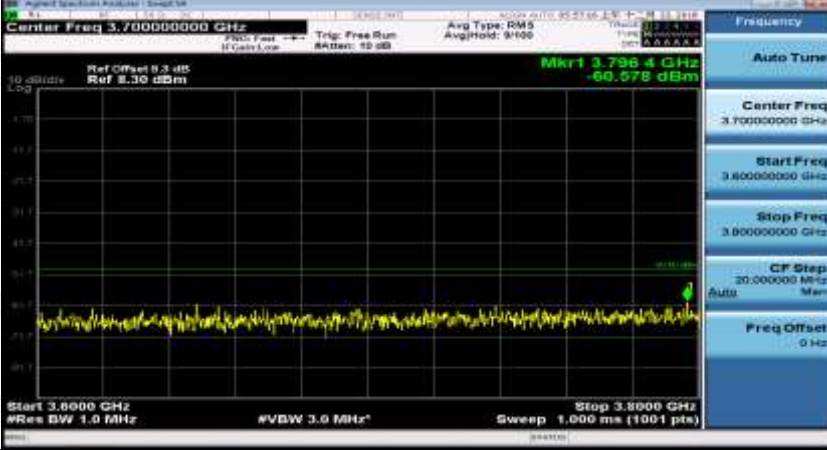
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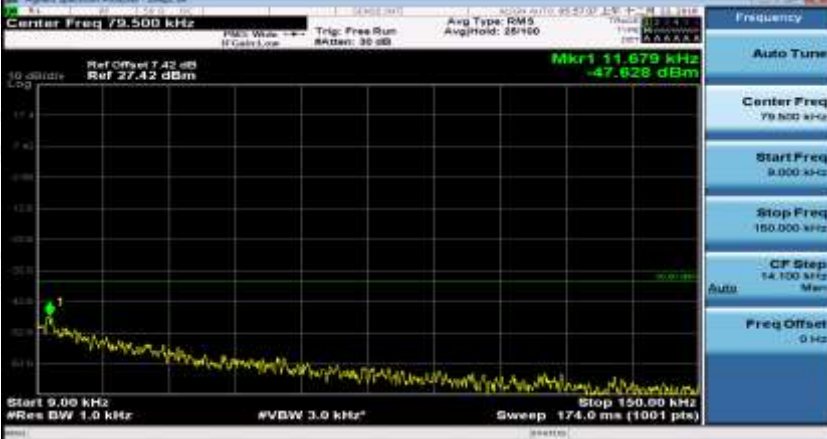
Co-existence	
Co-existence	
Co-existence	

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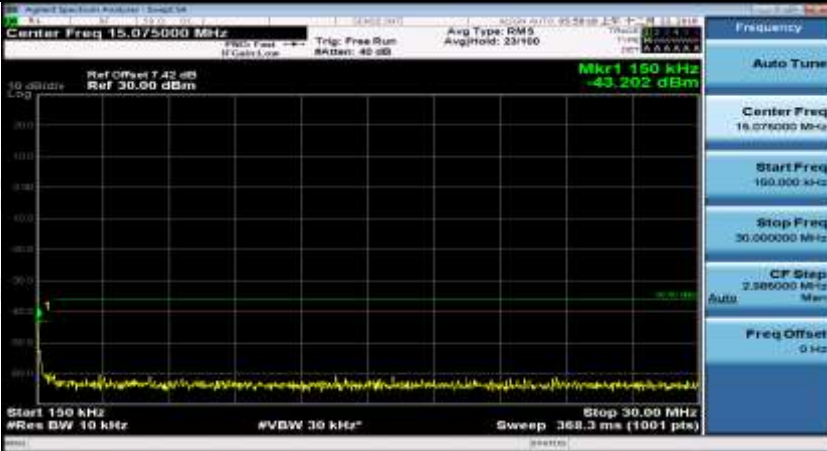
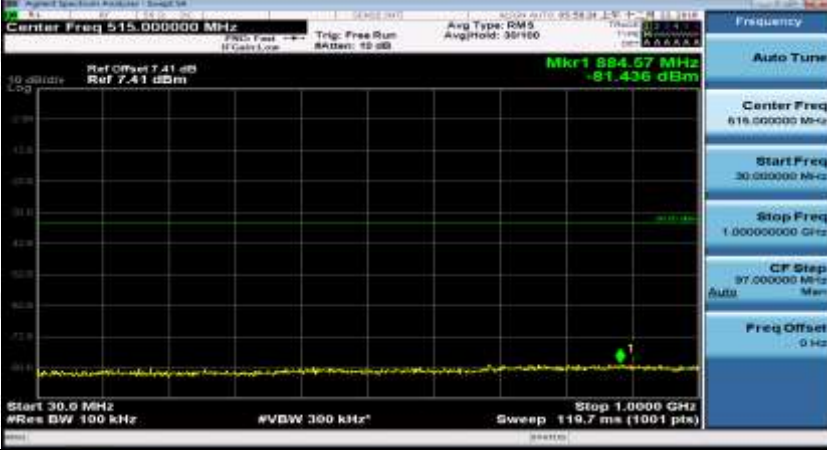
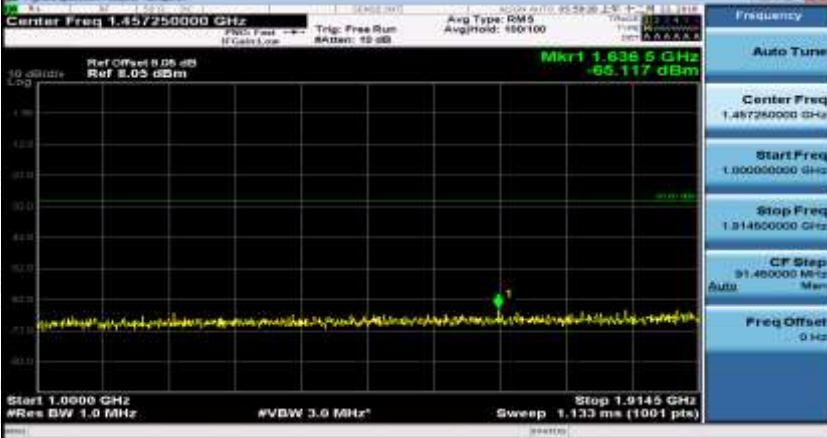
Co-existence	
Co-existence	
Co-existence	

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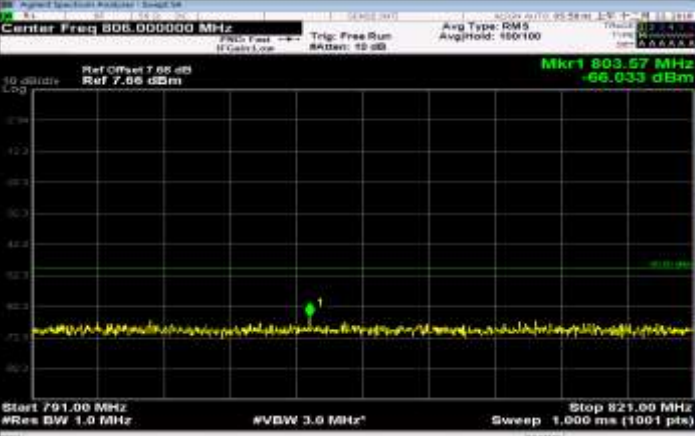
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	

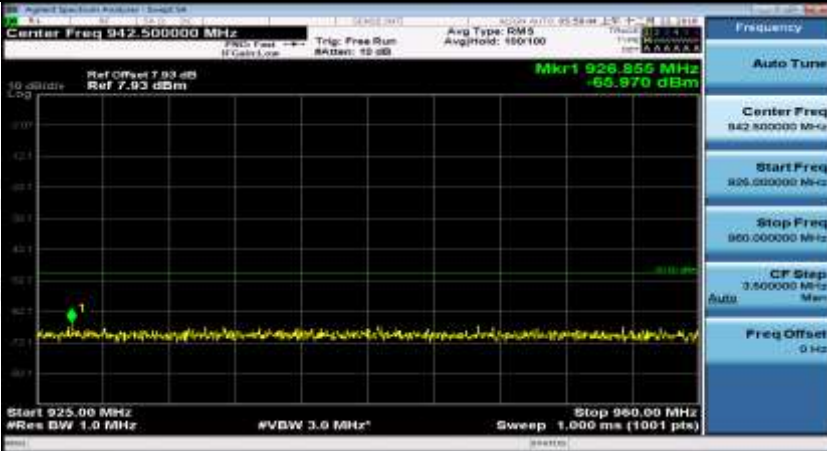
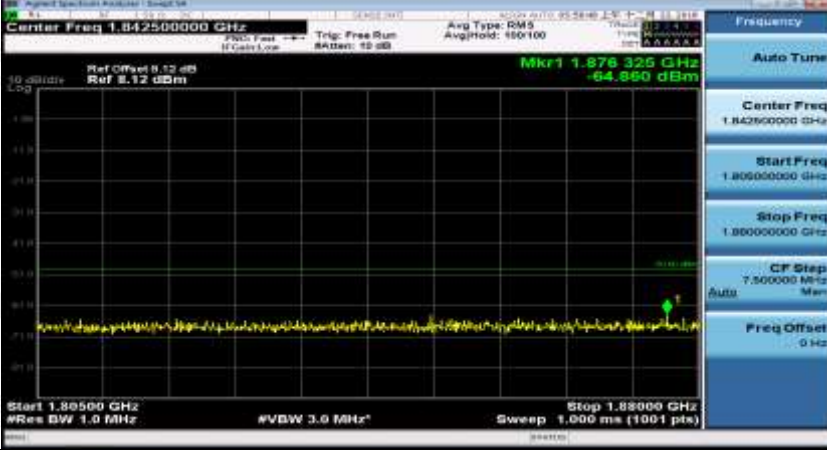
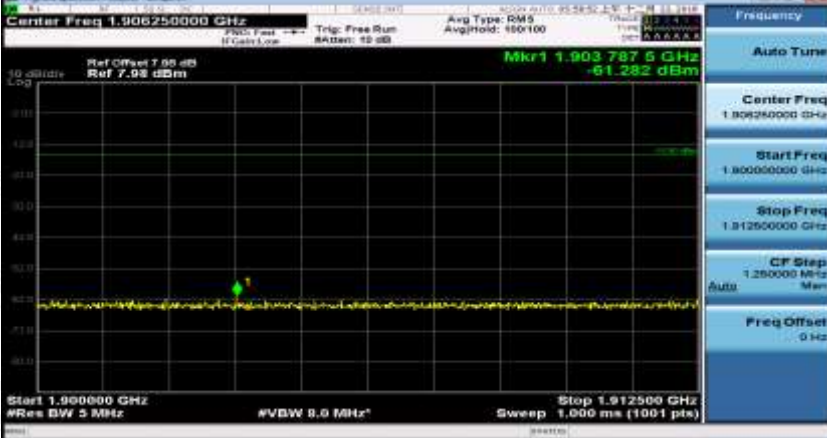
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General	
General	
General	

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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.492750000 GHz</p> <p>Start Freq 1.986000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 301.400000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

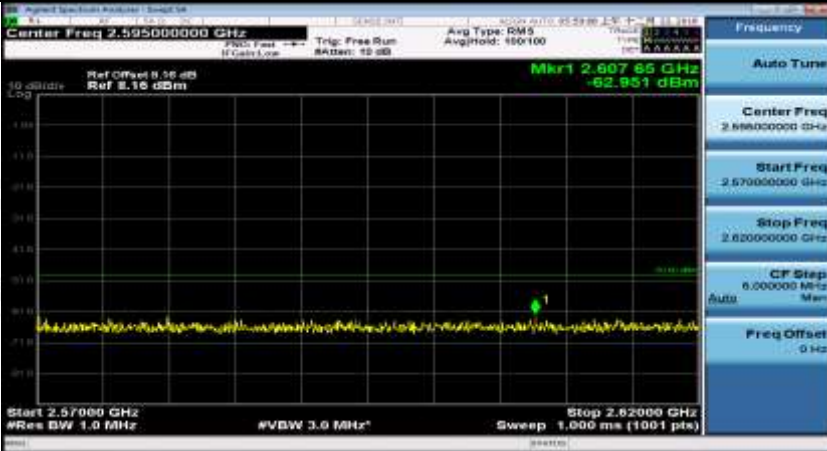
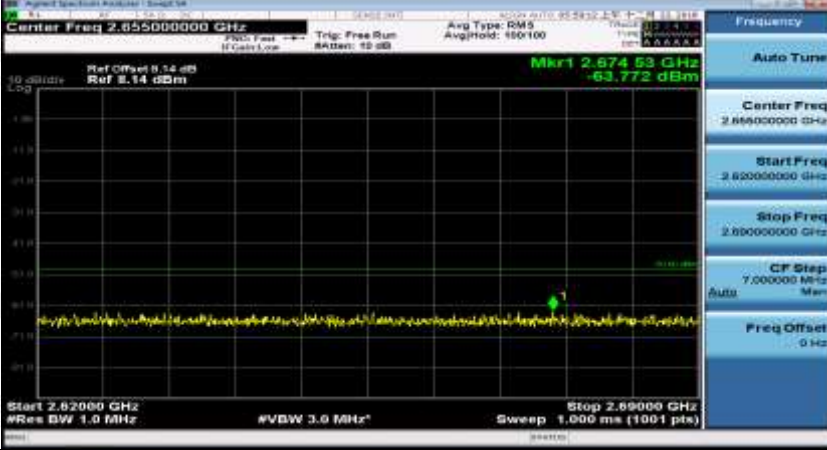
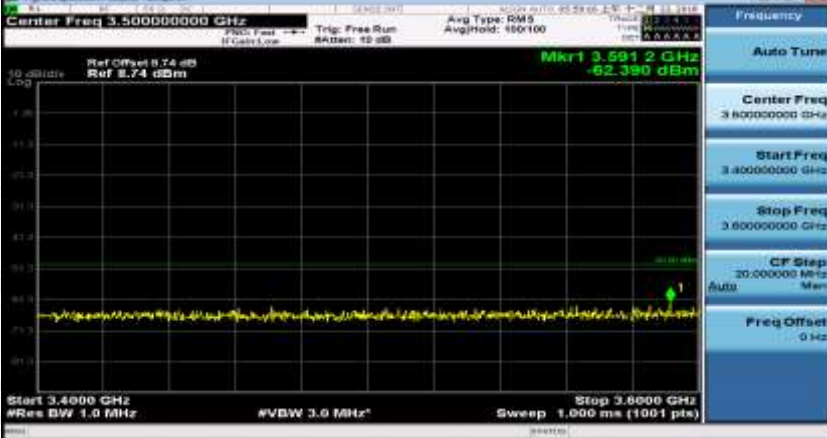
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

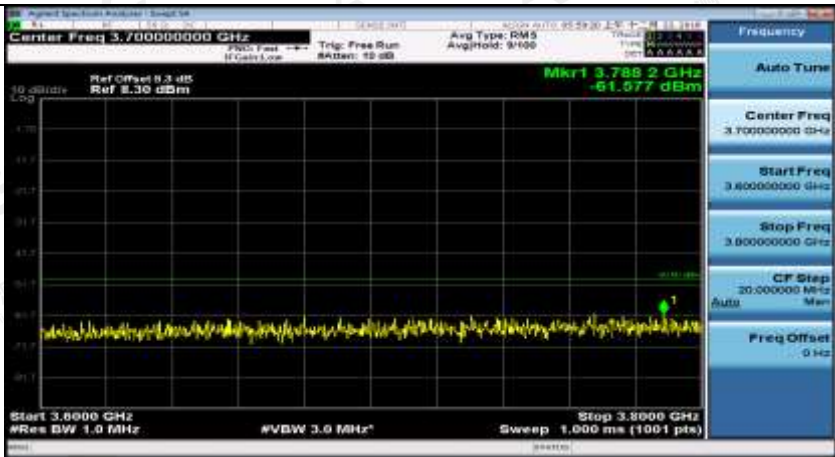
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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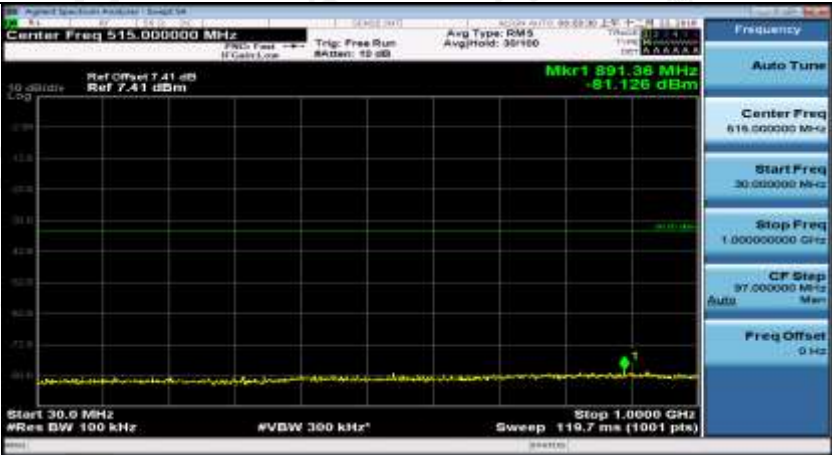
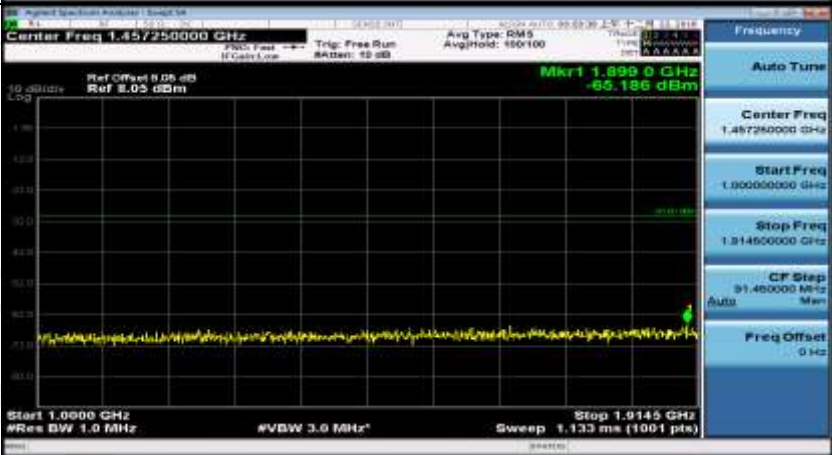

Co-existence	
Co-existence	
Co-existence	

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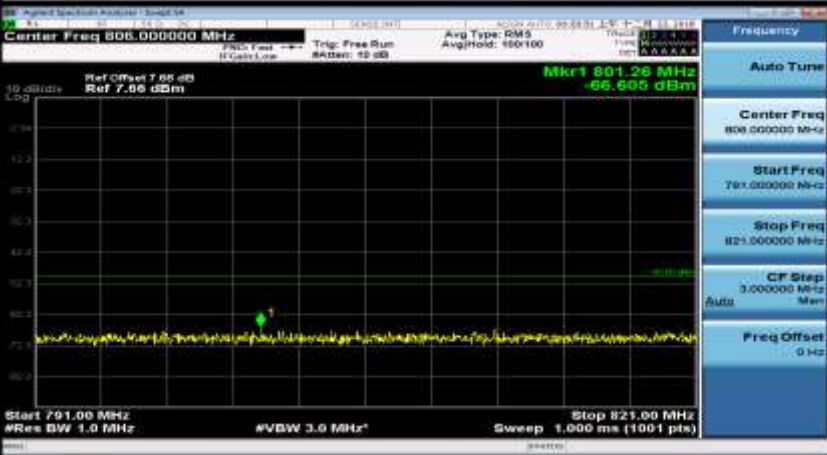
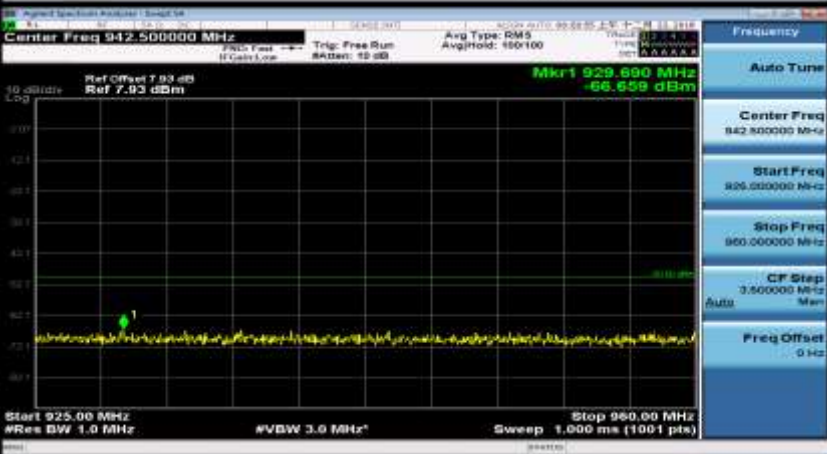
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullRB#0	
General	
General	

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General	
General	
General	

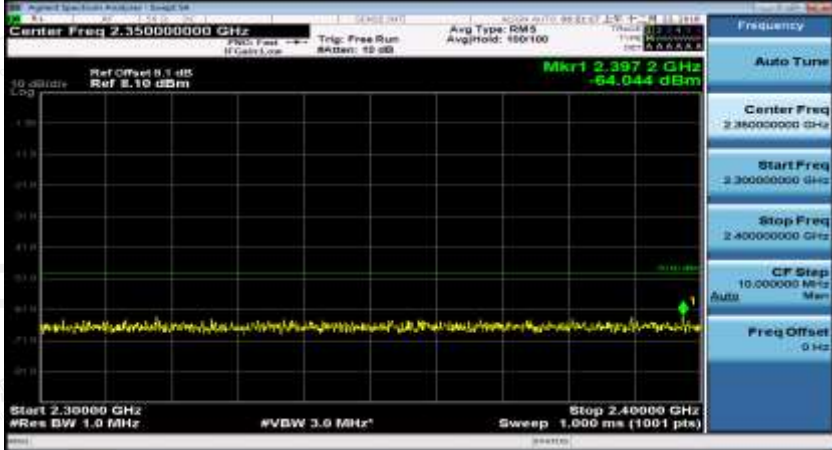

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General		
Co-existence		
Co-existence		

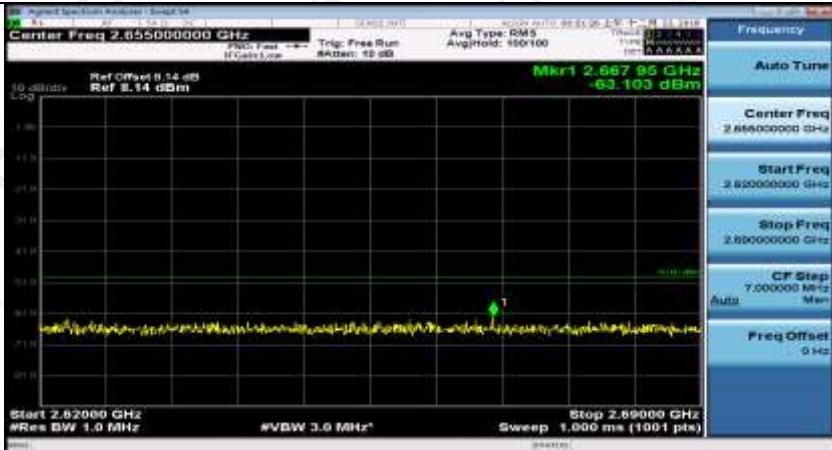
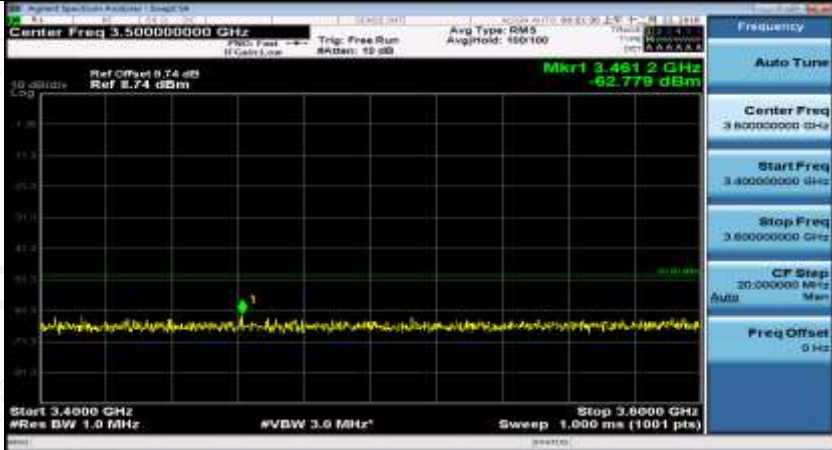
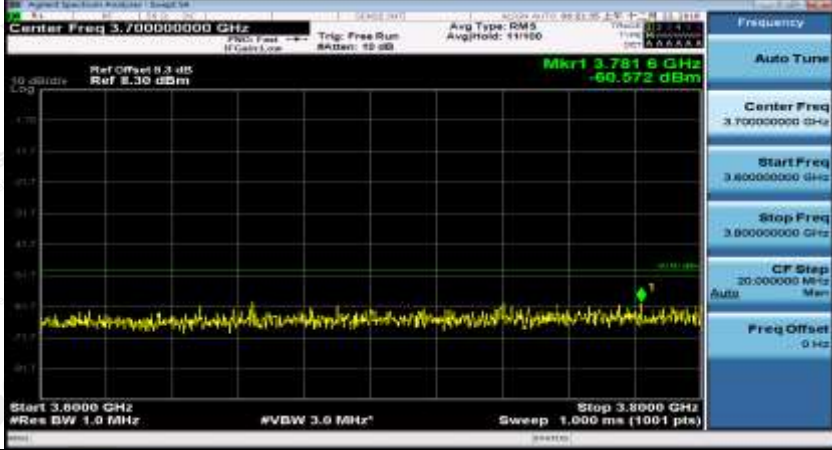
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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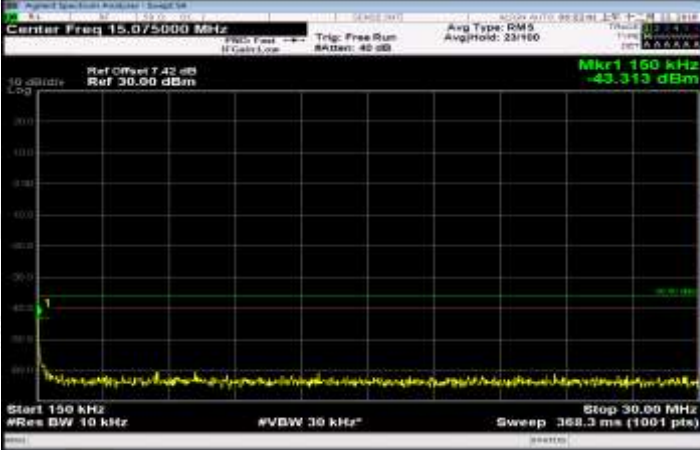
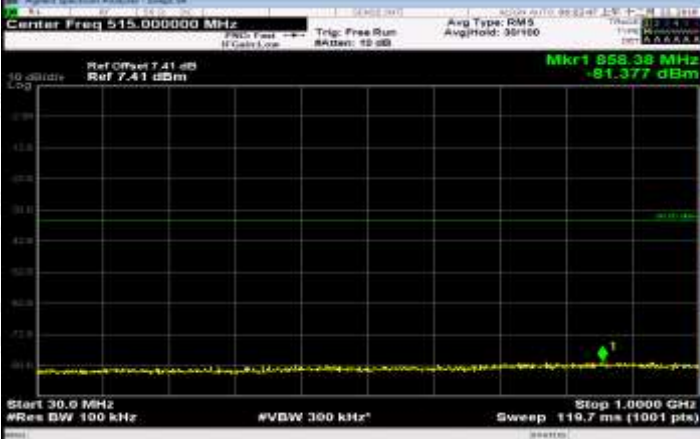
Co-existence	
Co-existence	
Co-existence	

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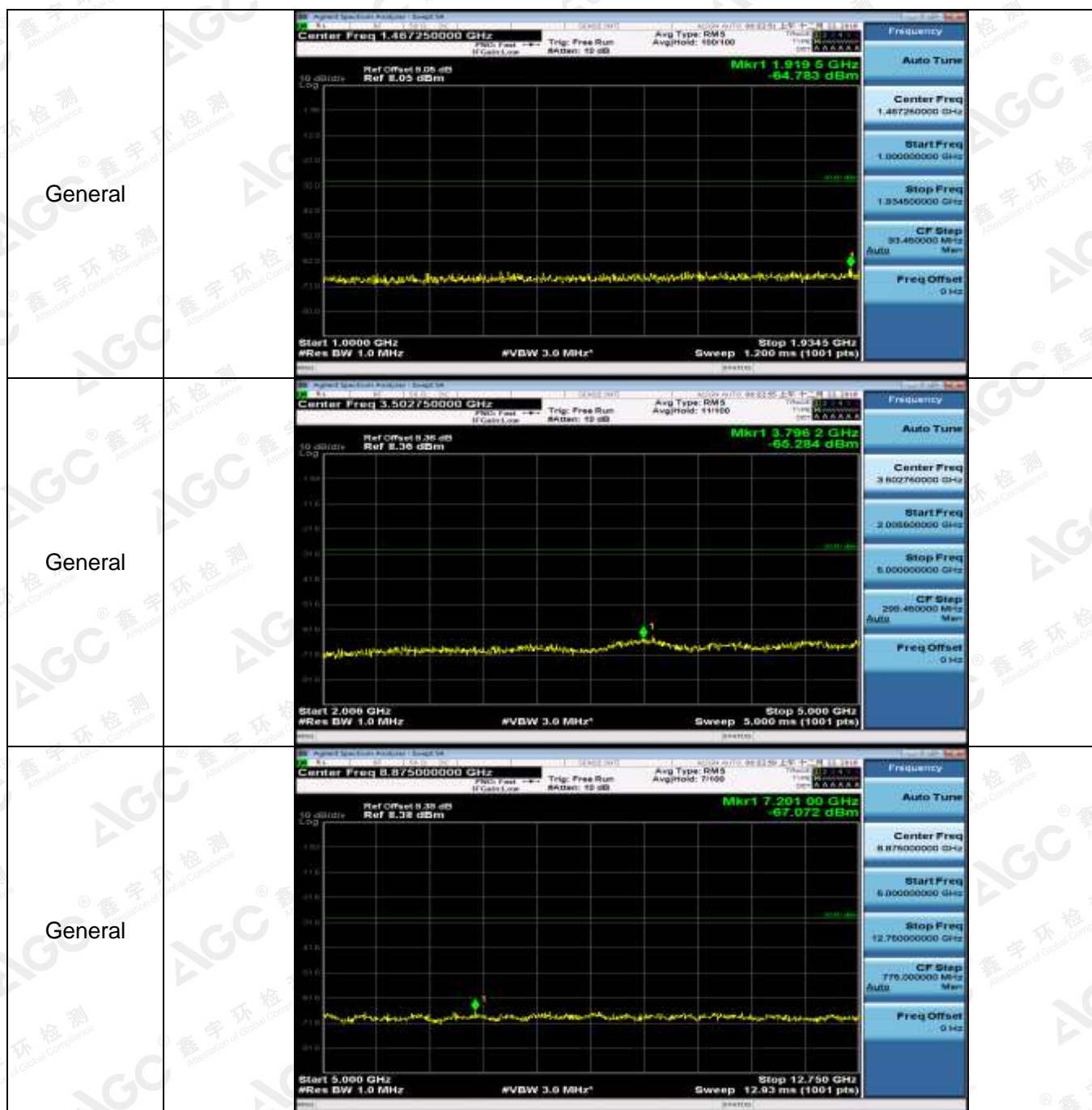
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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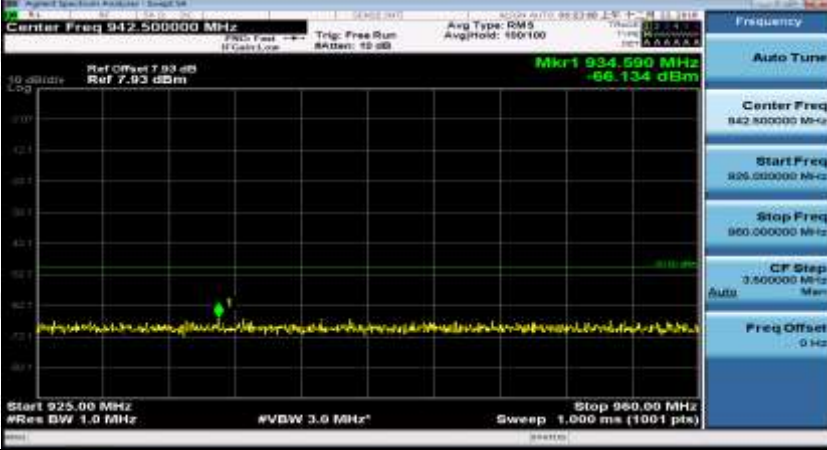
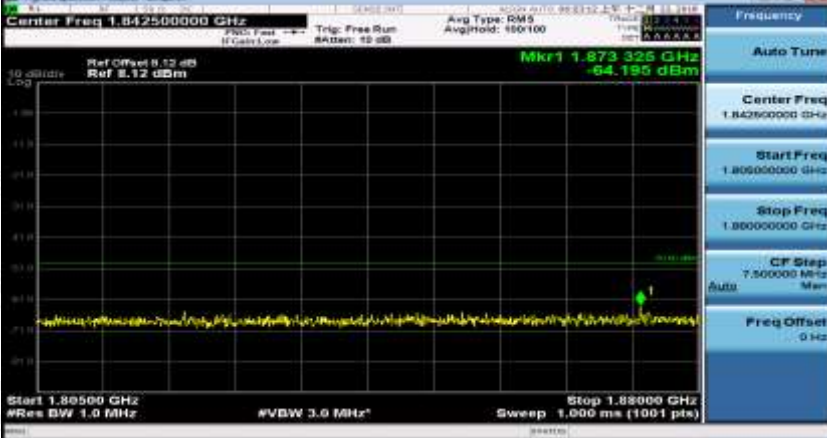
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General	
General	
General	



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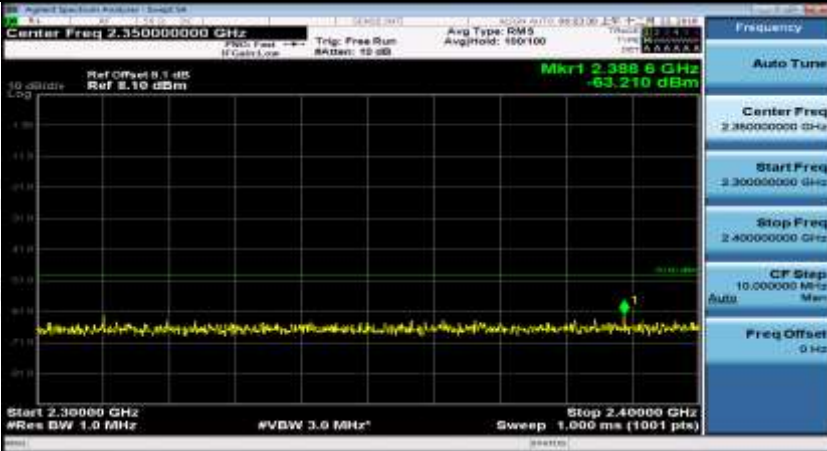
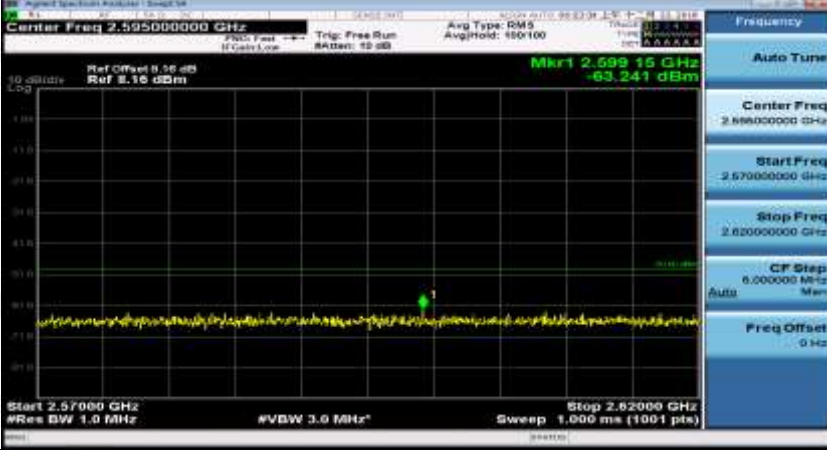
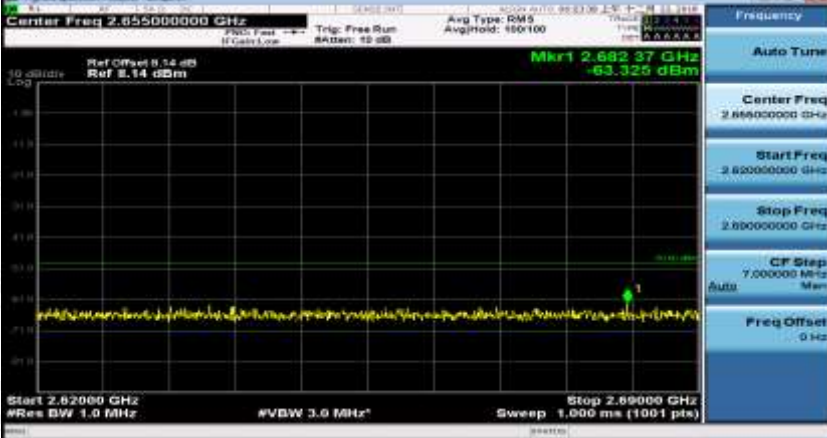
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Co-existence	
Co-existence	
Co-existence	

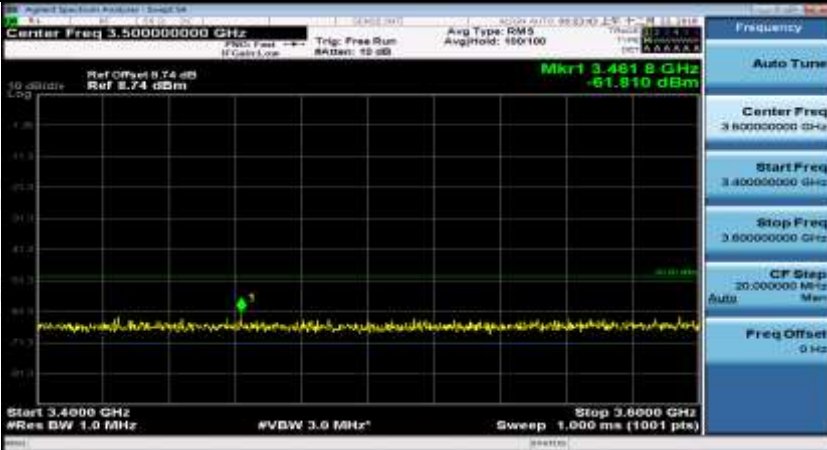
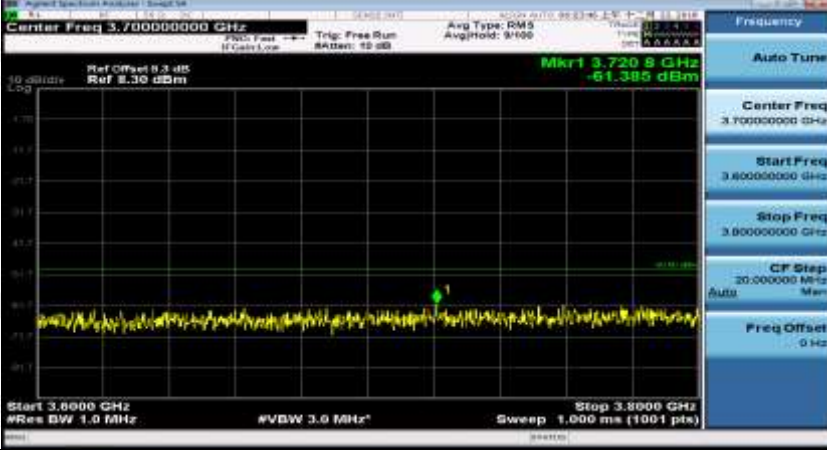
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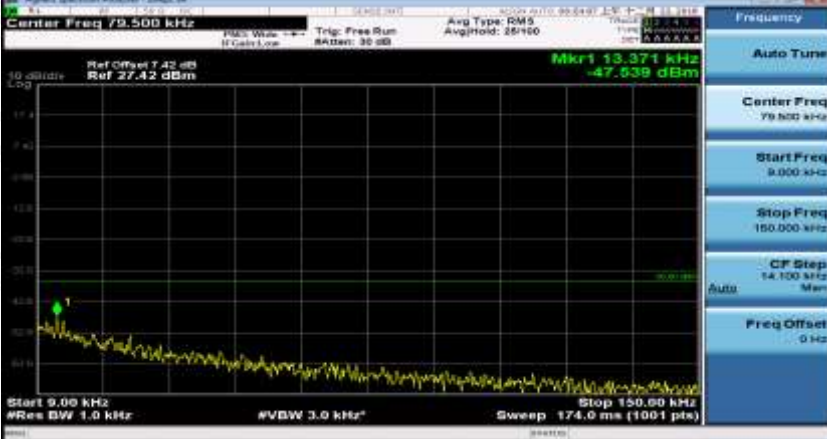
Co-existence	
Co-existence	
Co-existence	

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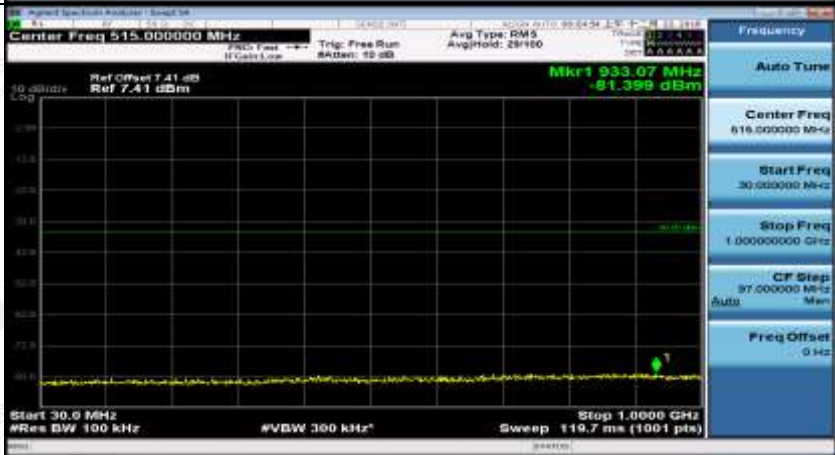
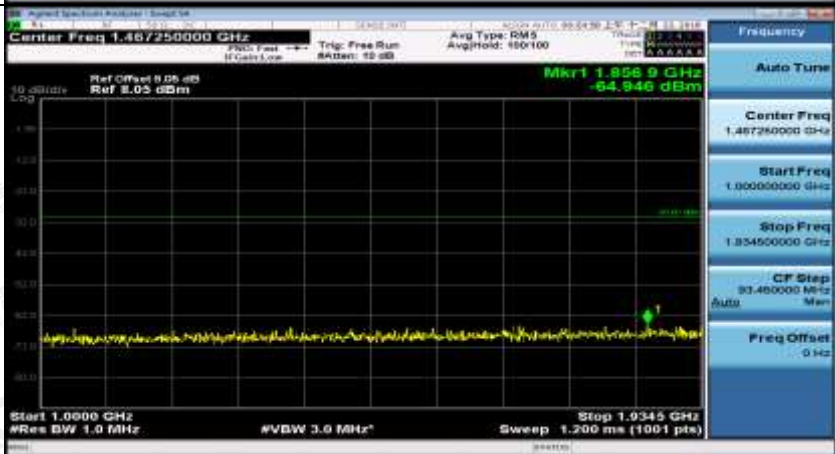
Co-existence	
Co-existence	
Co-existence	

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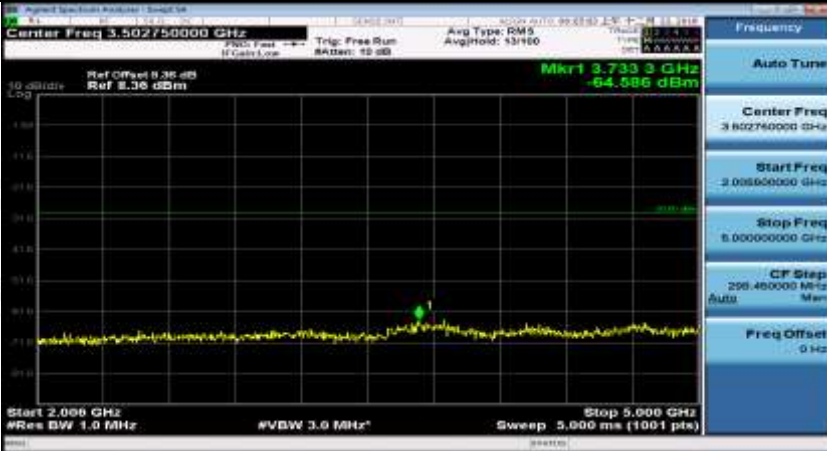
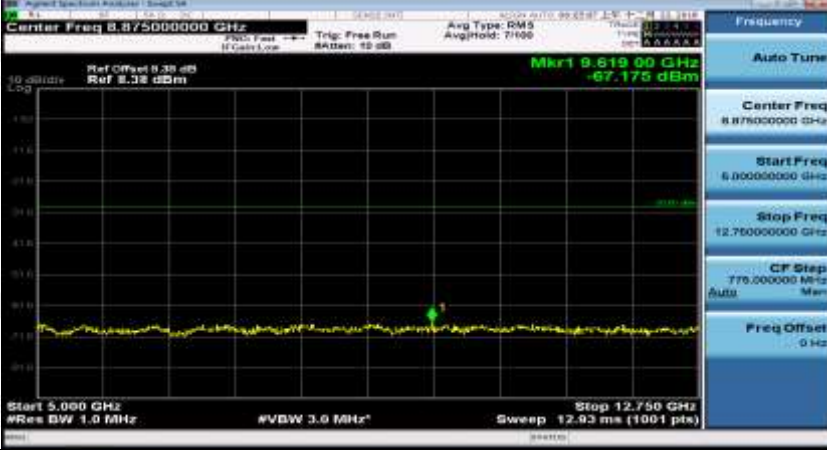
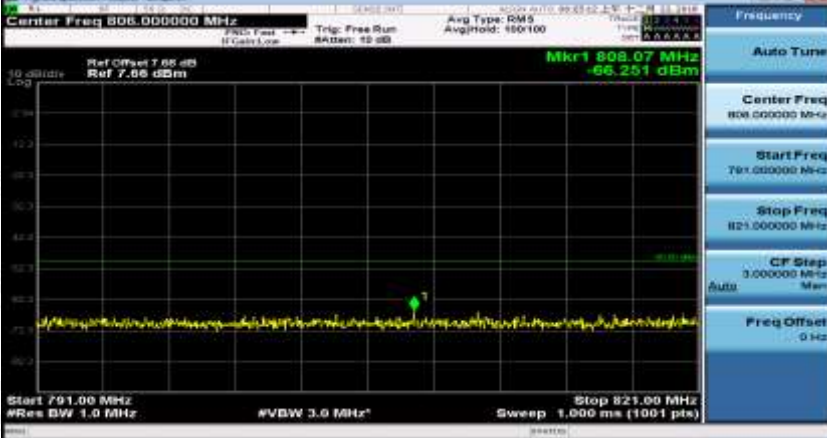
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	


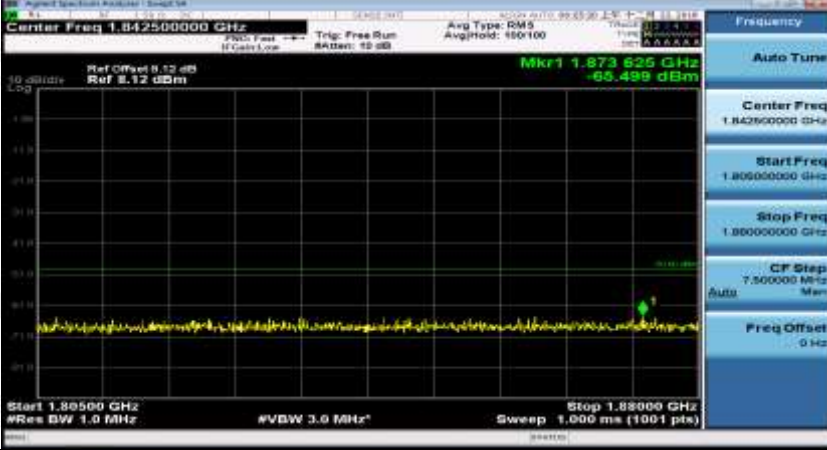

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General			
General			
General			

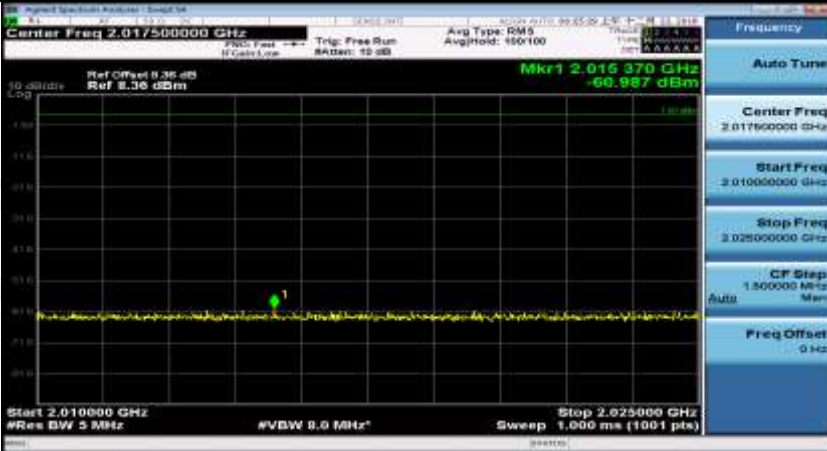
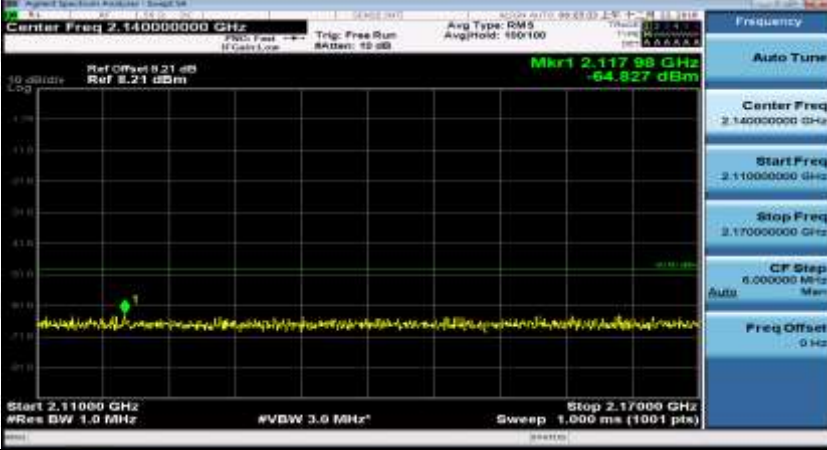
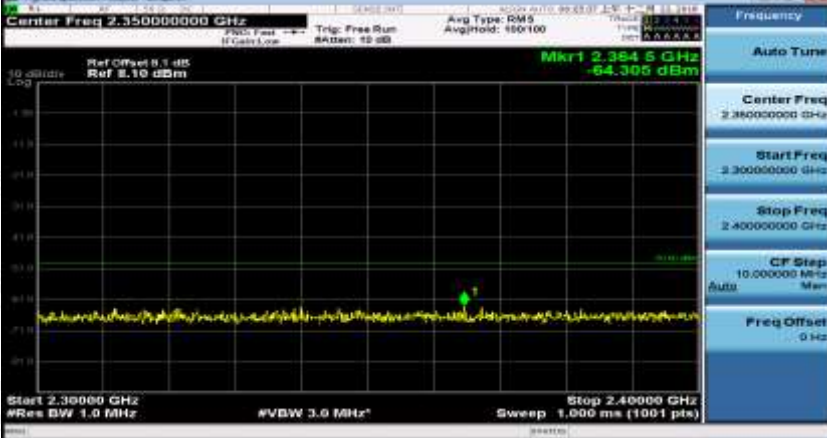
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General	
General	
Co-existence	

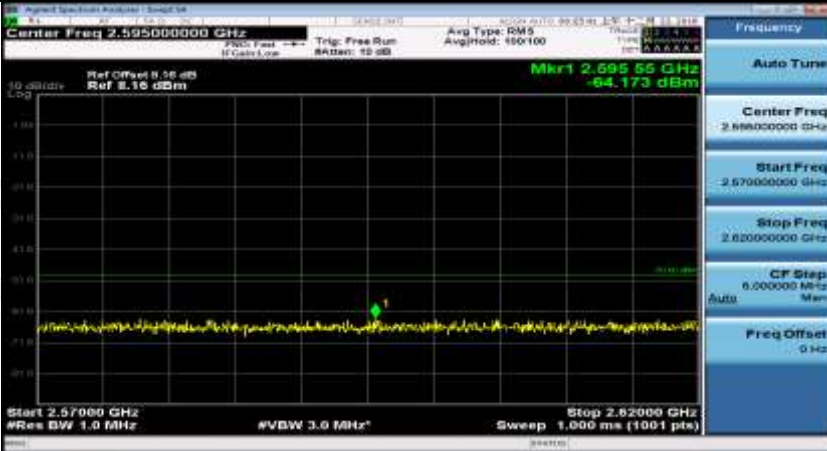

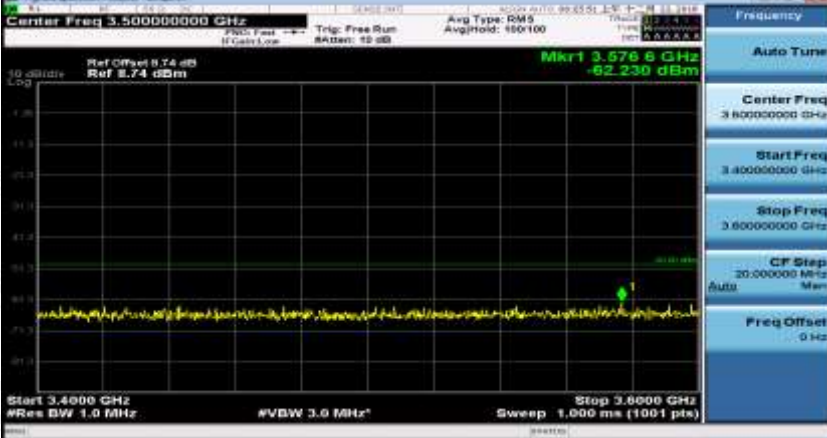
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Co-existence	
Co-existence	
Co-existence	

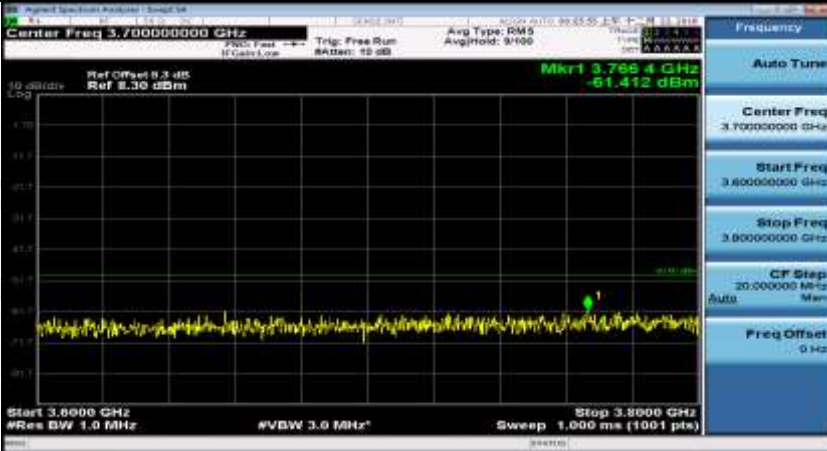
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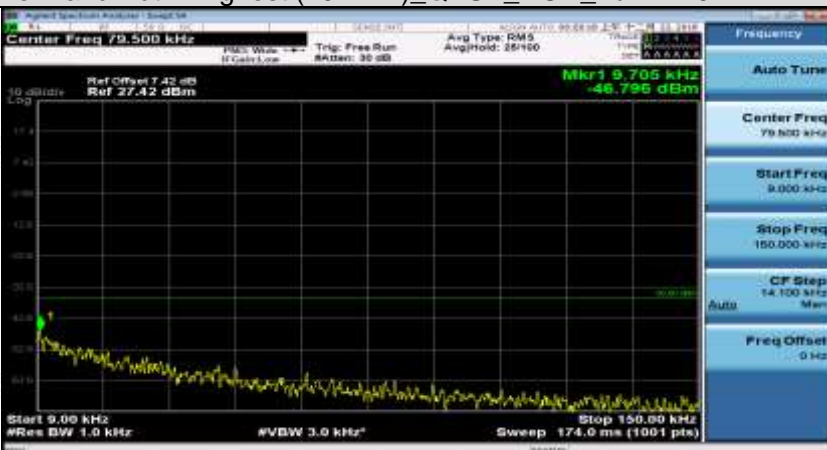

Co-existence	
Co-existence	
Co-existence	

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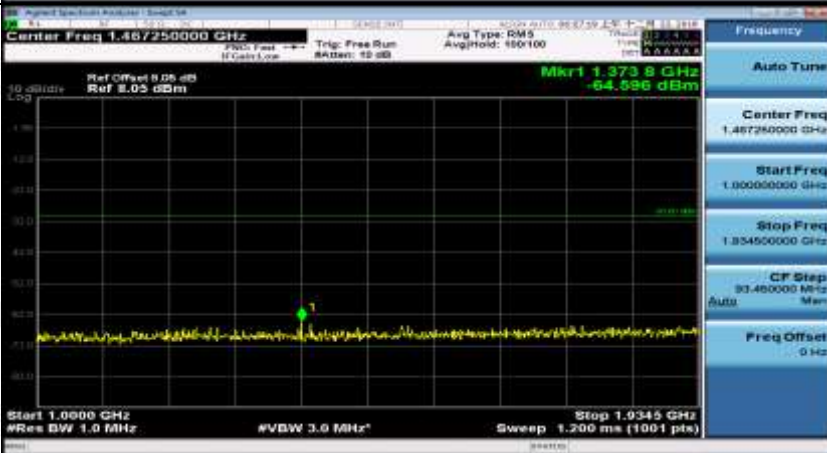
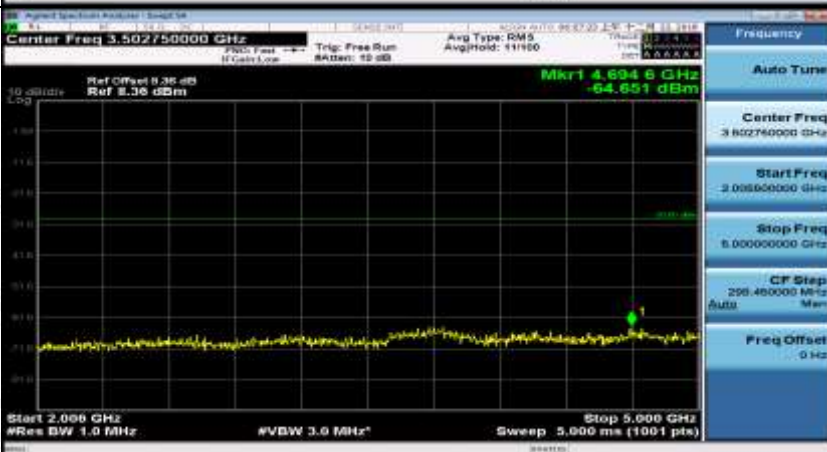
Co-existence	
Co-existence	
Co-existence	

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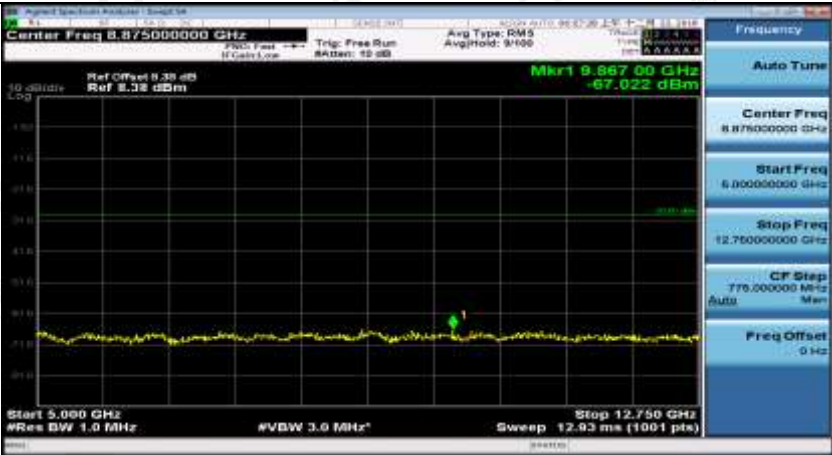
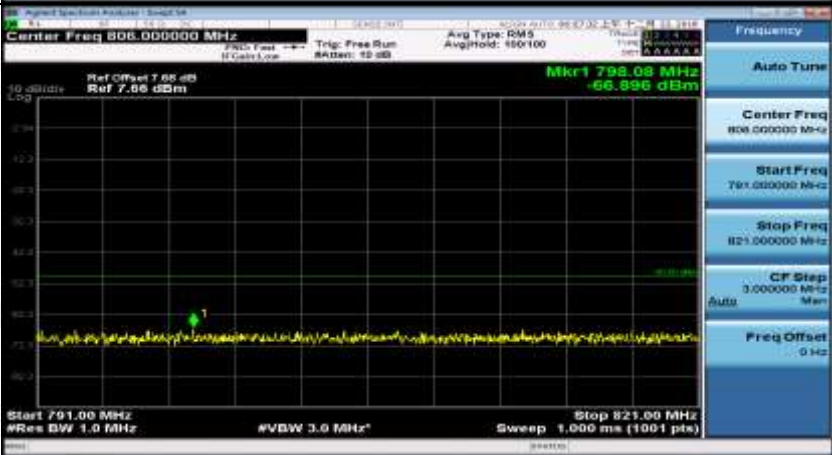
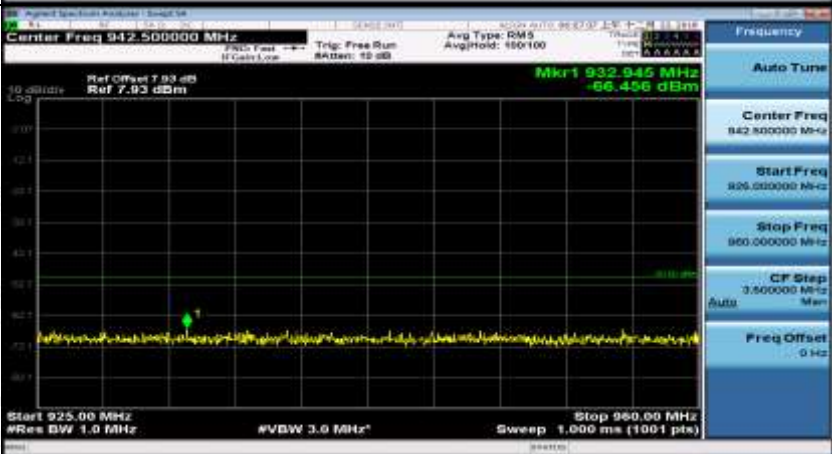
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	
General	

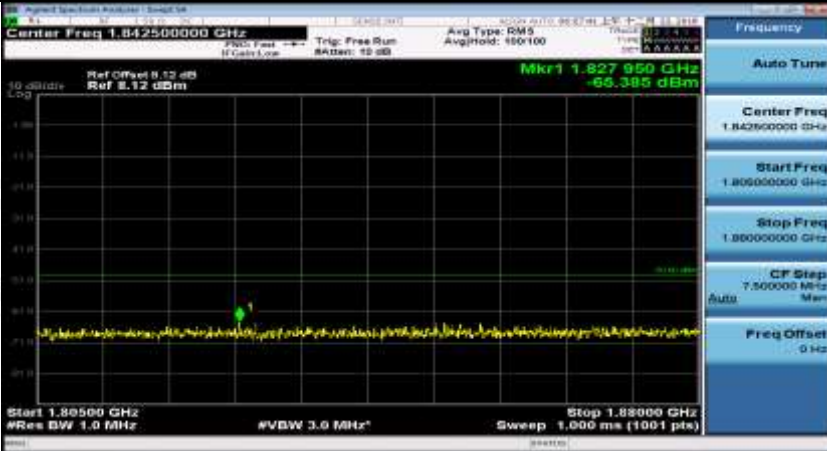
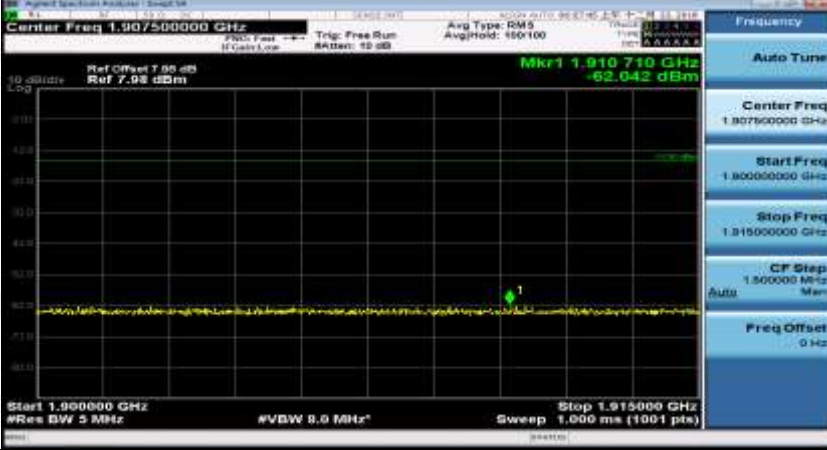

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General	
General	
General	

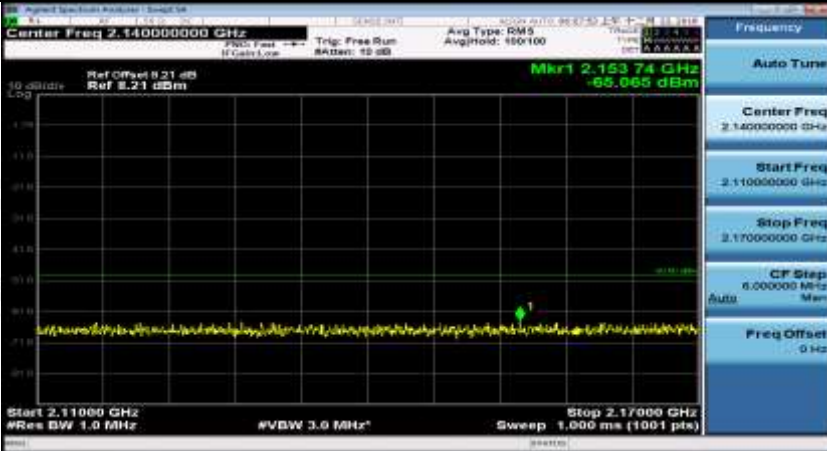
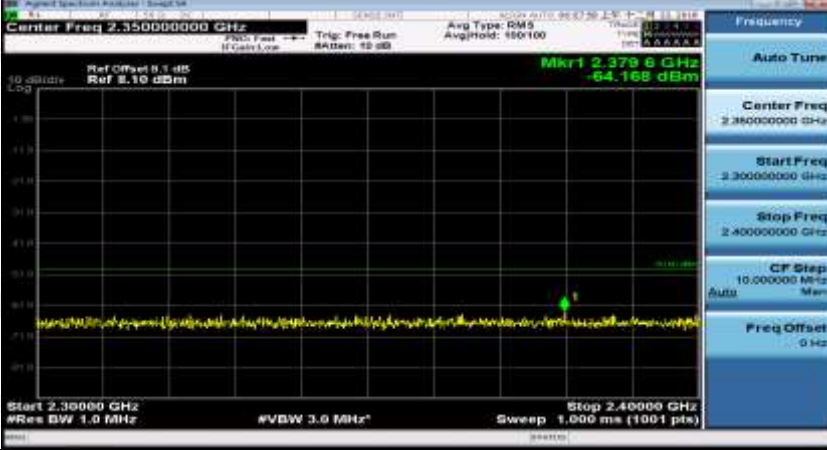
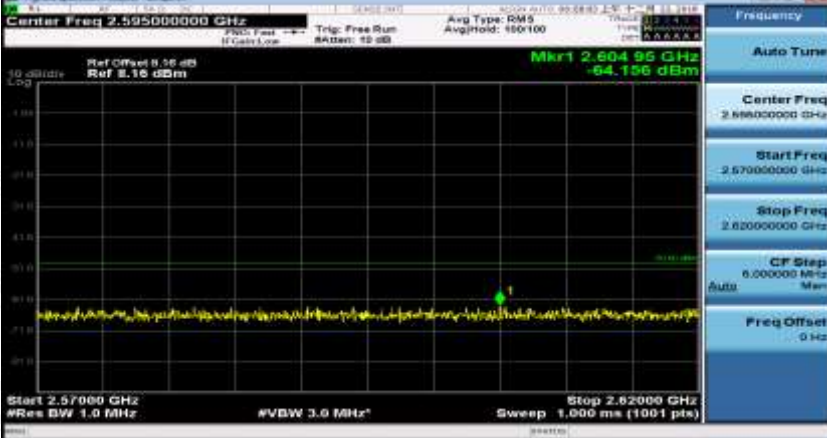
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General	
Co-existence	
Co-existence	

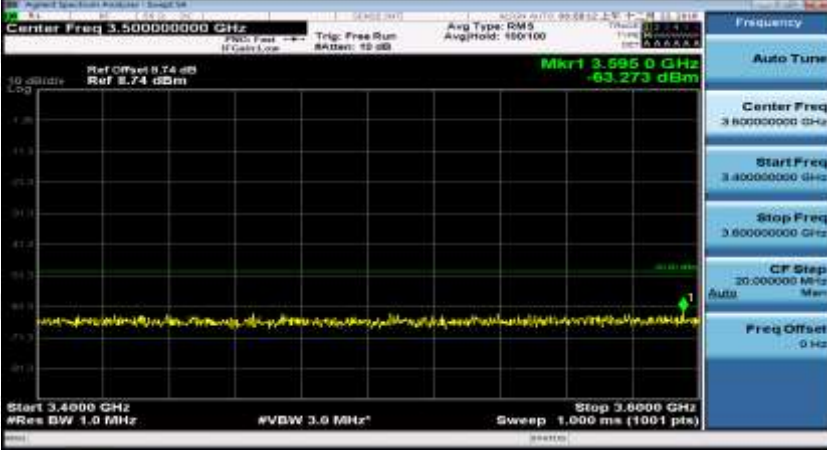
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

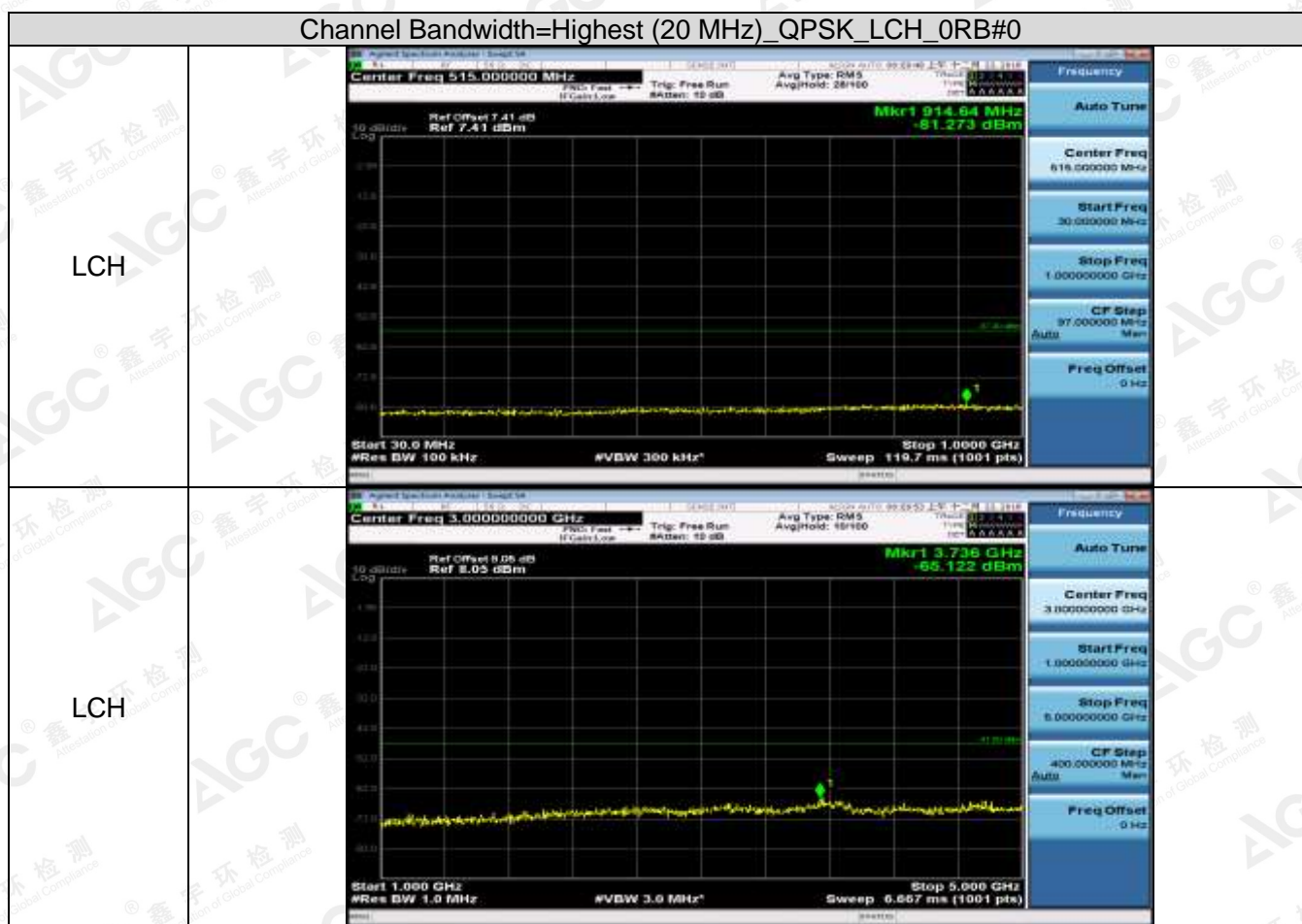
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

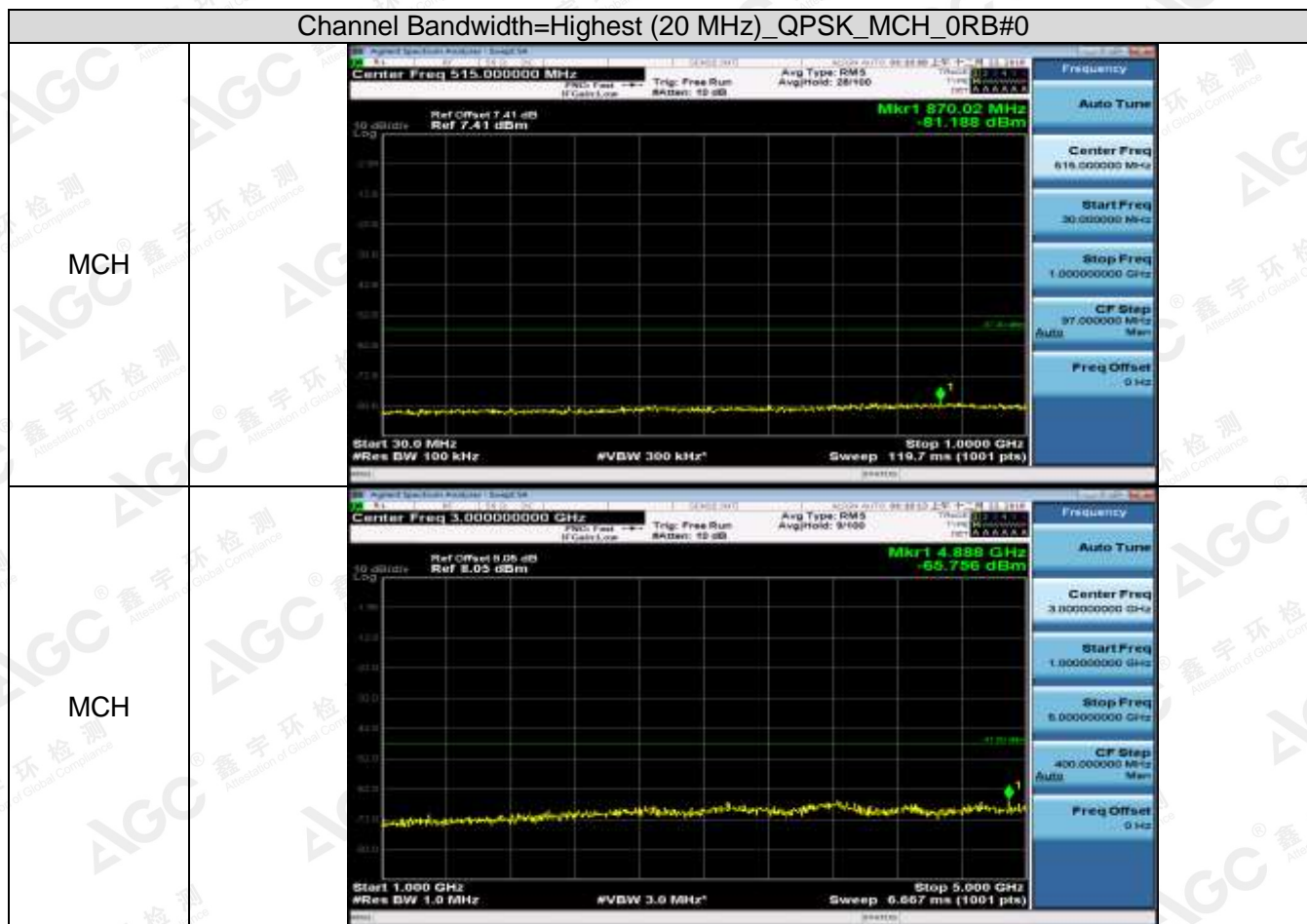
Test Graphs

NTNV

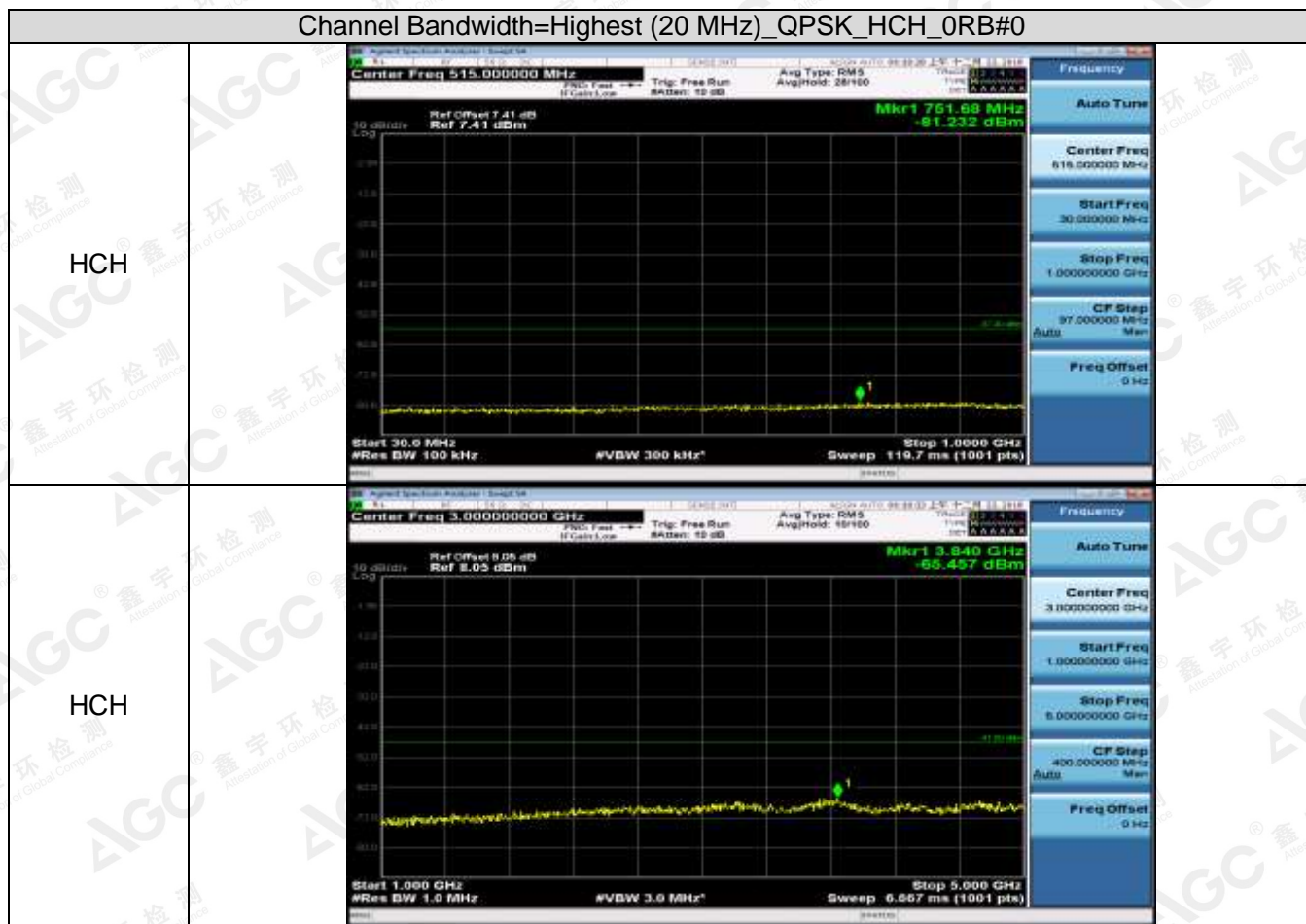
Channel Bandwidth=Highest



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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max .Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-86.12	-86.96	-87.36
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-73.28	-73.85	-73.57
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-71.50	-71.41	-72.60
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment		NC			
Test Frequencies		Mid range			
Test Channel Bandwidths		Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 1			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

NTNV

	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfiguration		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
			FDD		FDD		
TNVN	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					
TL,VL	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					
TL,VH	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					

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Appendix B for Band 3

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	24.12	Pass
					max	24.18	Pass
				Partial	0	23.66	Pass
					max	23.67	Pass
			Mid range	1	0	24.05	Pass
					max	24.01	Pass
				Partial	0	24.04	Pass
					max	23.75	Pass
			High range	1	0	23.86	Pass
					max	23.78	Pass
				Partial	0	23.92	Pass
					max	23.91	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	1	0	23.69	Pass
					max	23.64	Pass
				Partial	0	23.67	Pass
					max	23.69	Pass
			Mid range	1	0	23.74	Pass
					max	23.69	Pass
				Partial	0	23.72	Pass
					max	23.72	Pass
			High range	1	0	23.86	Pass
					max	23.91	Pass
				Partial	0	23.85	Pass
					max	23.87	Pass

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Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	23.48	Pass
					max	23.50	Pass
				Partial	0	23.51	Pass
					max	23.58	Pass
			Mid range	1	0	23.52	Pass
					max	23.63	Pass
				Partial	0	23.58	Pass
					max	23.68	Pass
			High range	1	0	23.46	Pass
					max	23.60	Pass
				Partial	0	23.69	Pass
					max	23.75	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Full	0	-48.73	Pass
			Mid range	Full	0	-49.22	Pass
			High range	Full	0	-49.52	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	Full	0	-49.39	Pass
			Mid range	Full	0	-49.05	Pass
			High range	Full	0	-49.15	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Full	0	-49.00	Pass
			Mid range	Full	0	-48.89	Pass
			High range	Full	0	-49.07	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full		0	PUMAX	Pass		
	16QAM		Low range	Partial	0	PUMAX	Pass

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			Mid range		max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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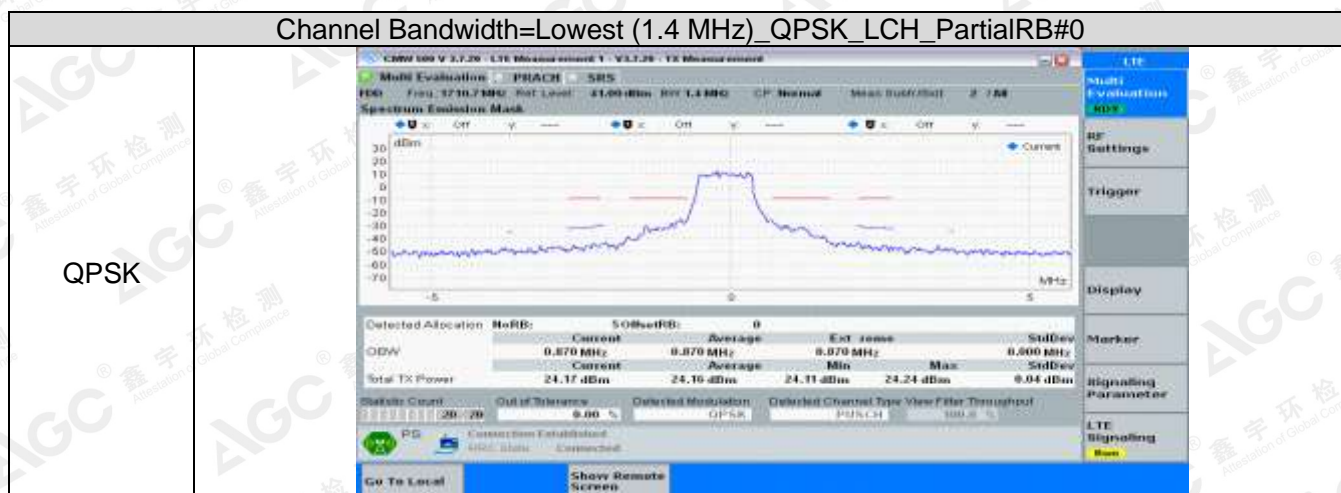
		High range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
		Low range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
	16QAM	Mid range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
		High range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass

Test Graphs

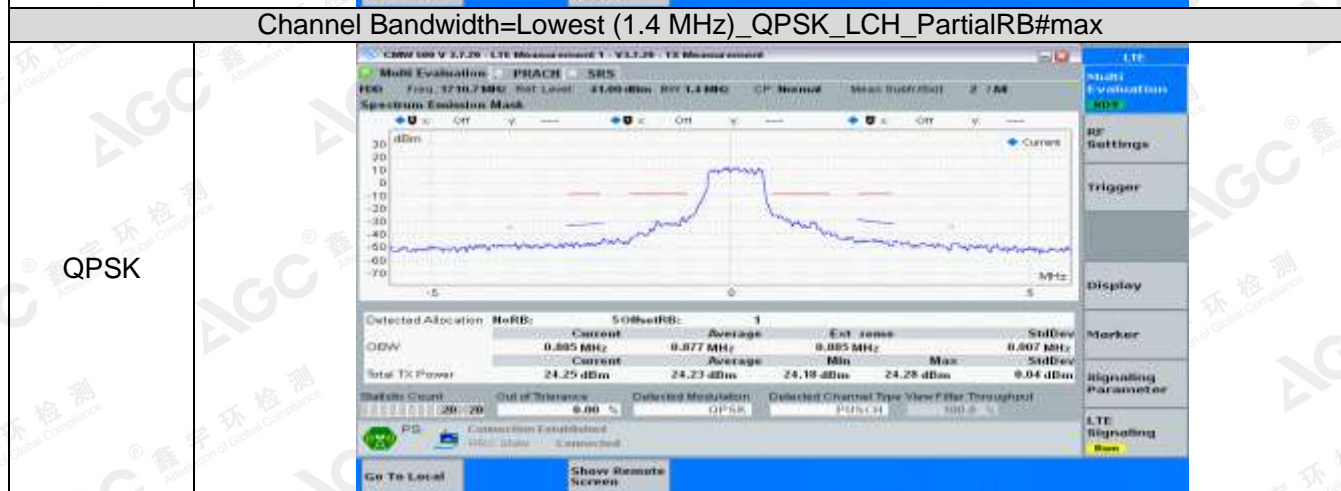
NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#0



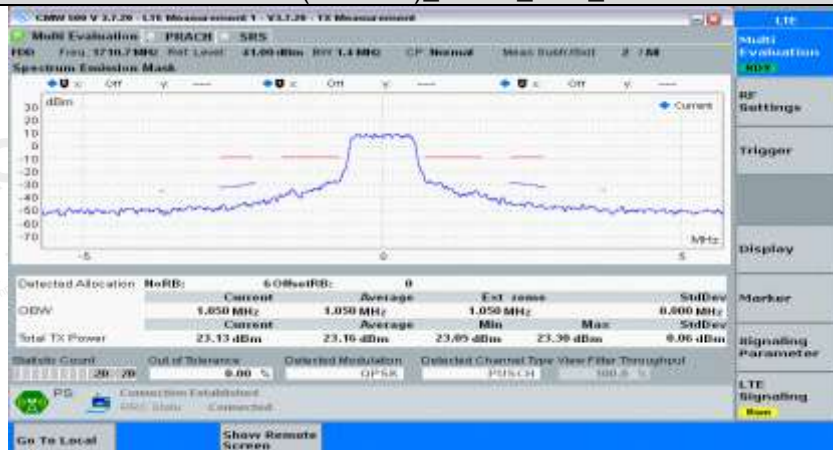
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#max



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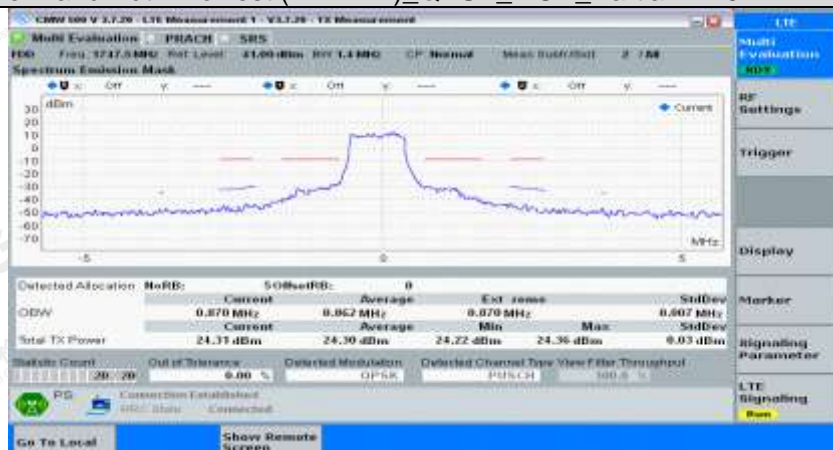
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullRB#0

QPSK



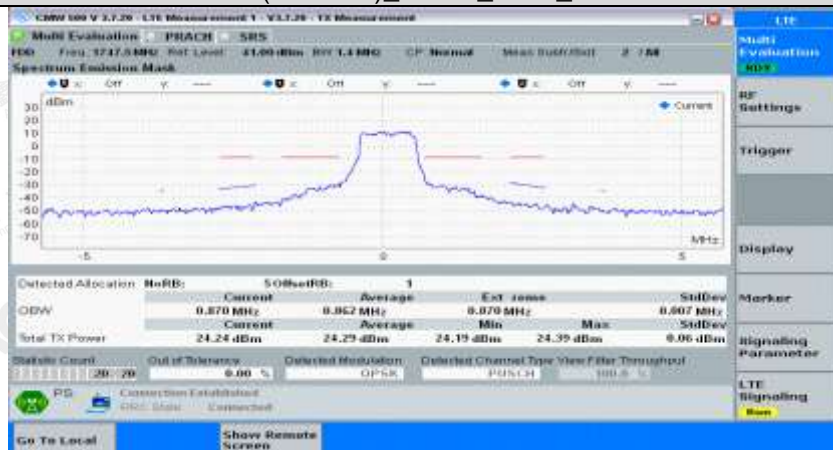
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max

QPSK

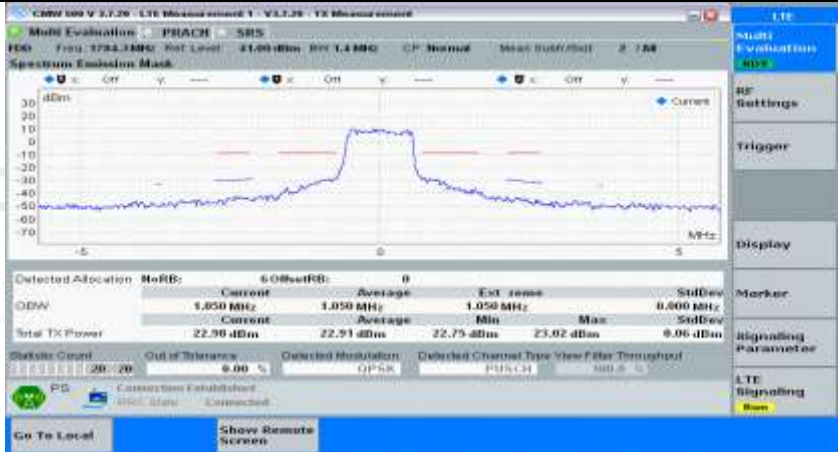
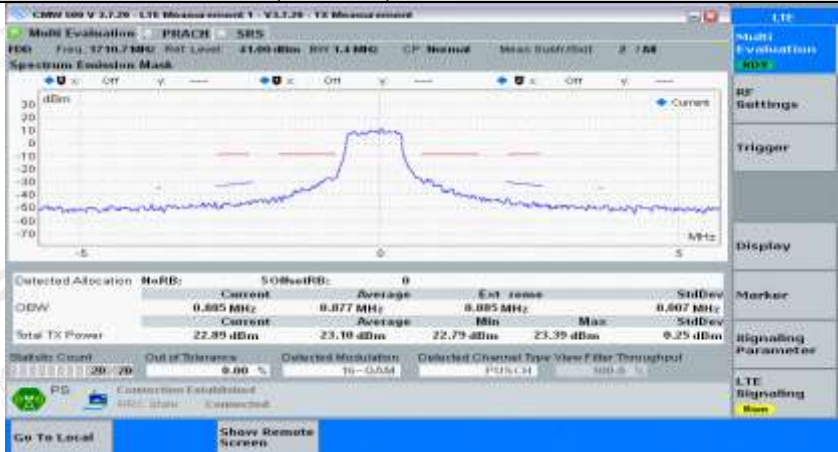
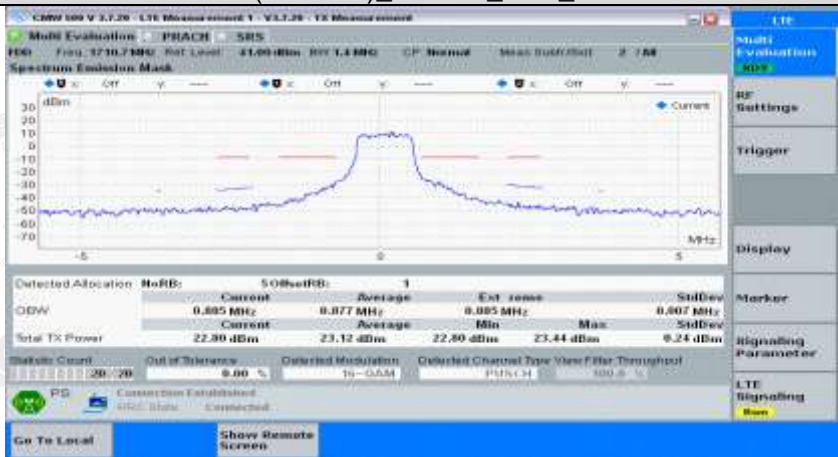


Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0

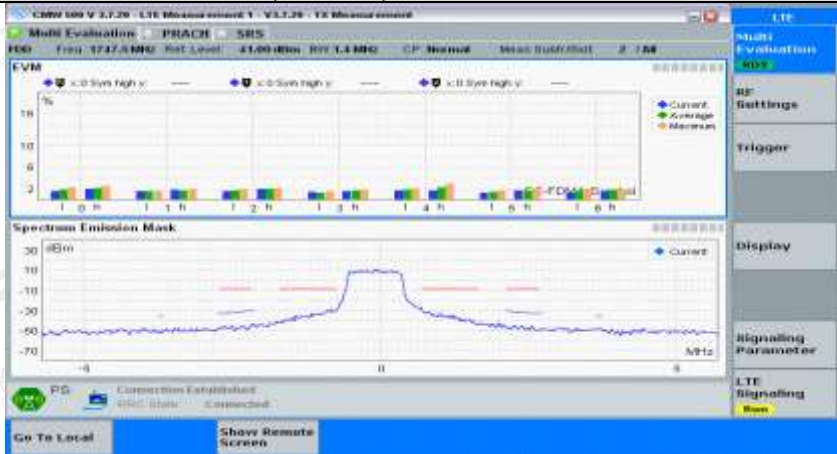
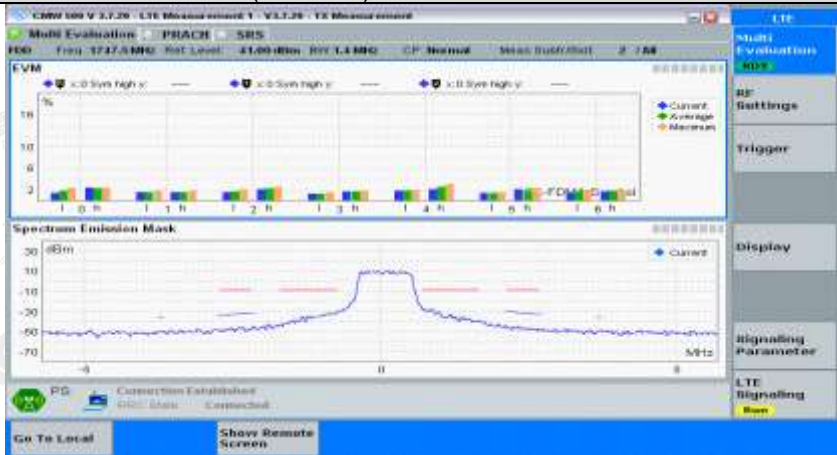
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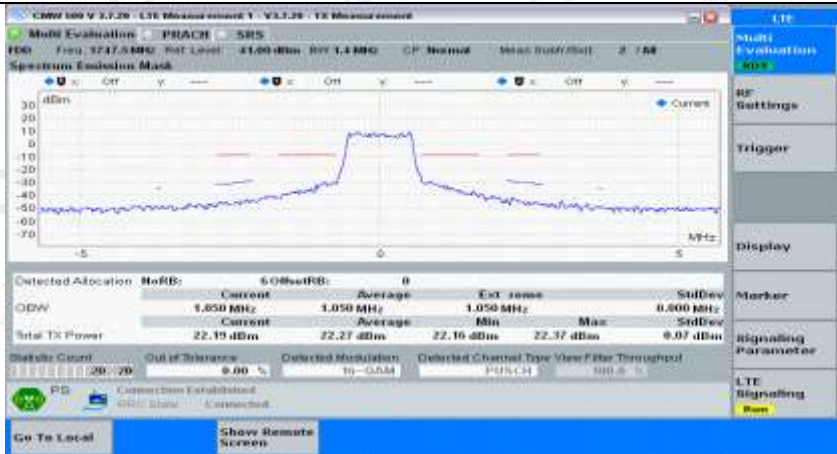
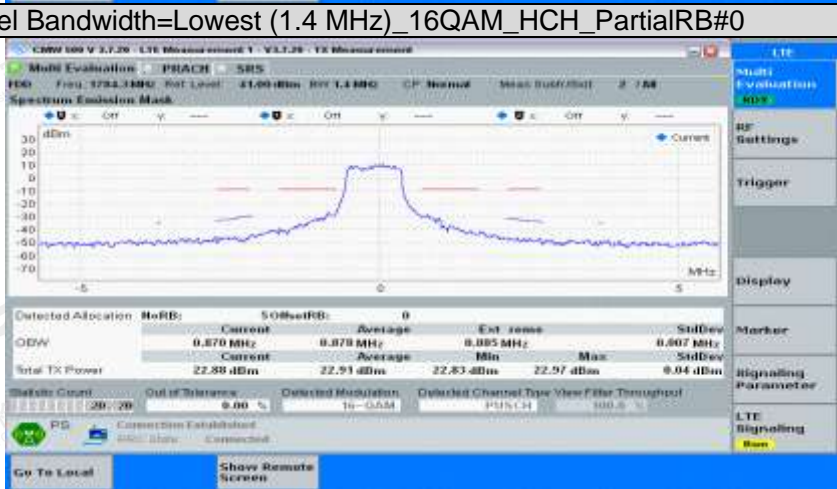
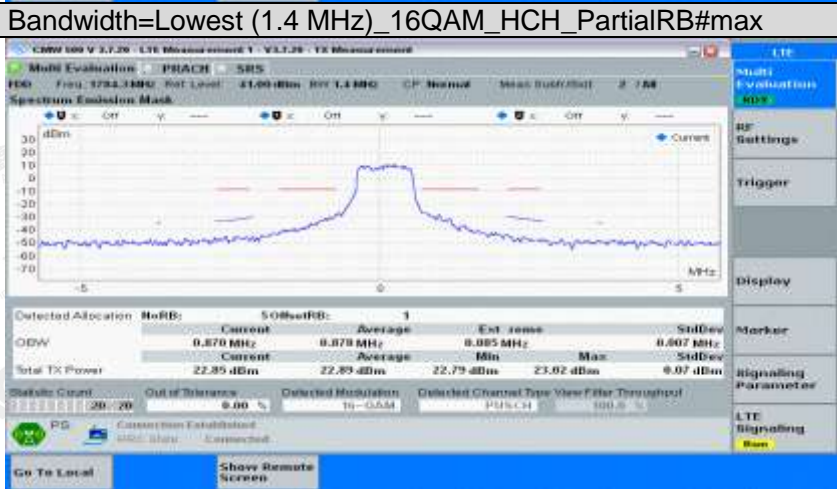
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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0	

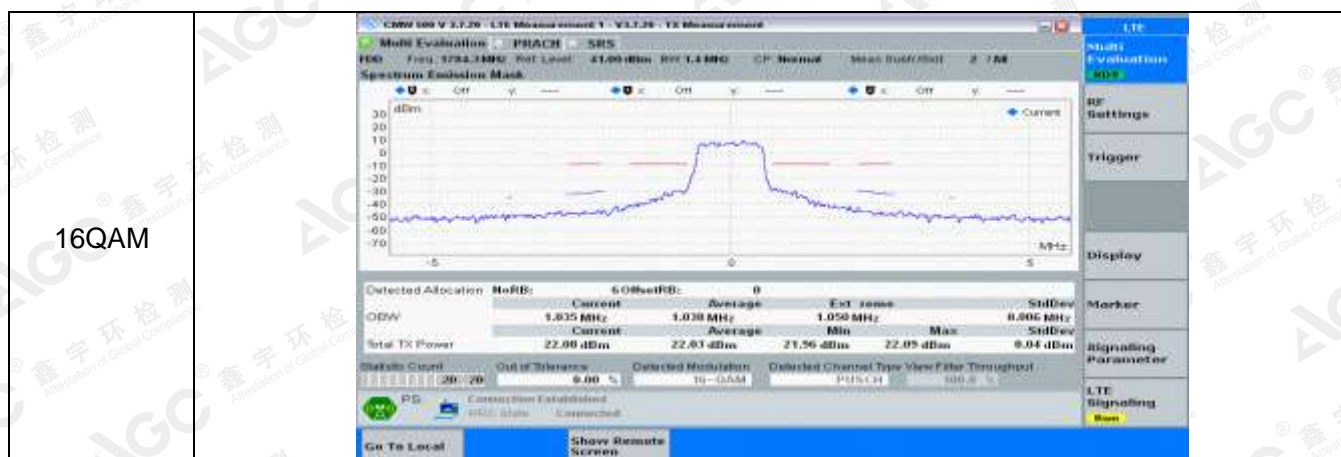
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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0	

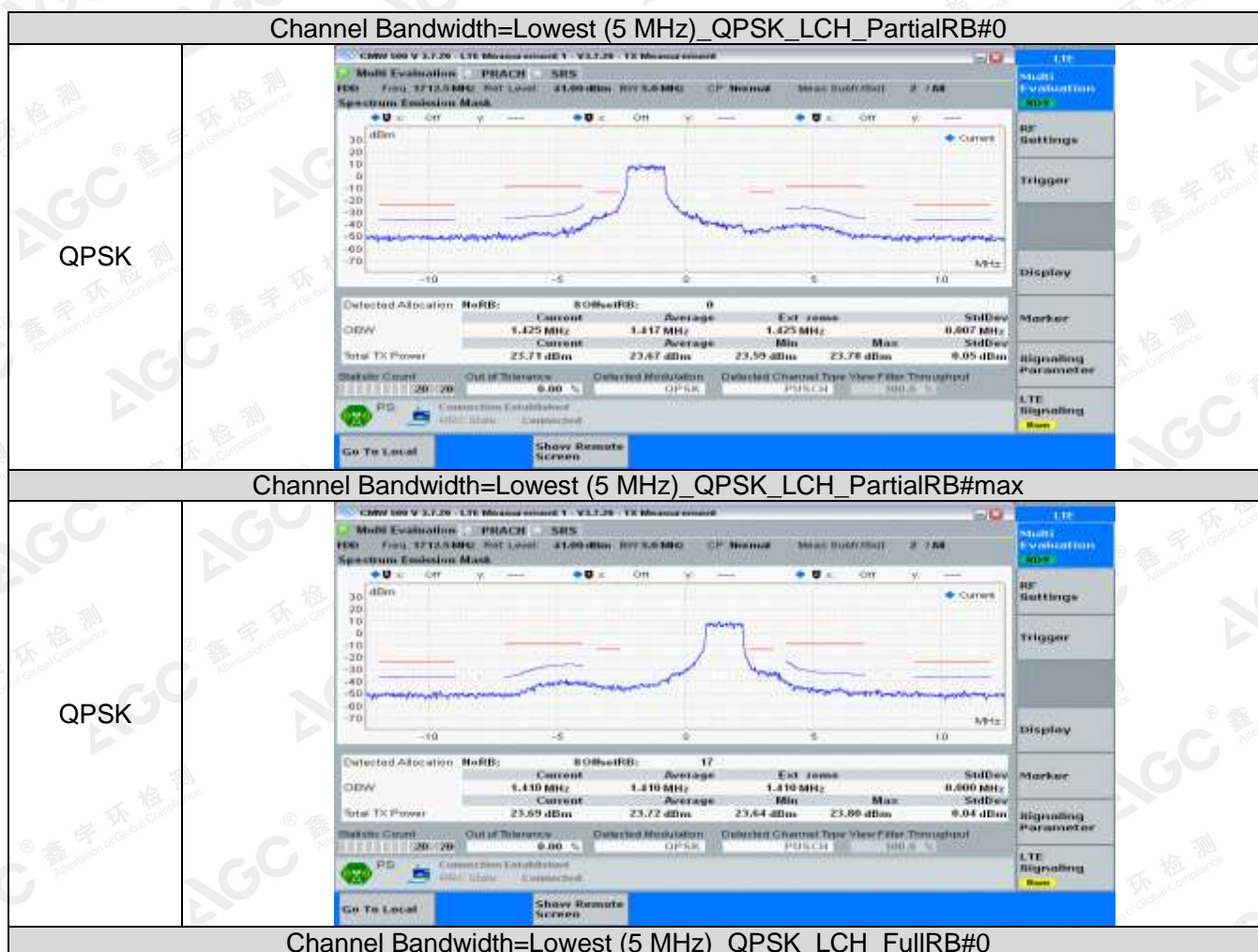
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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullRB#0</p>

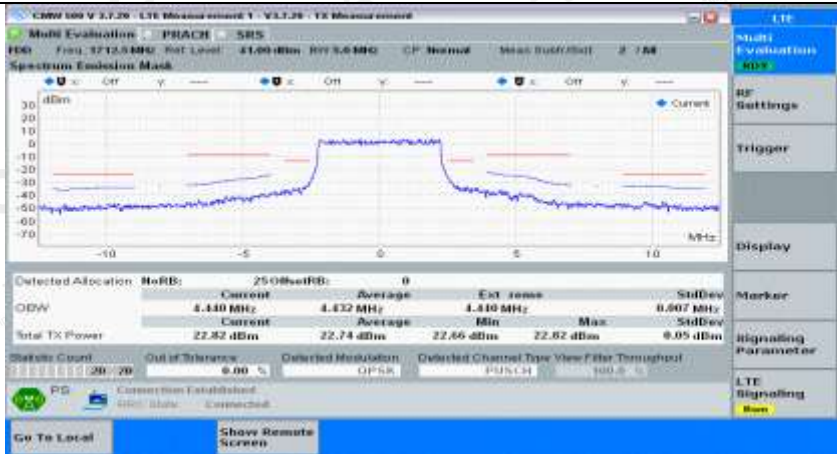
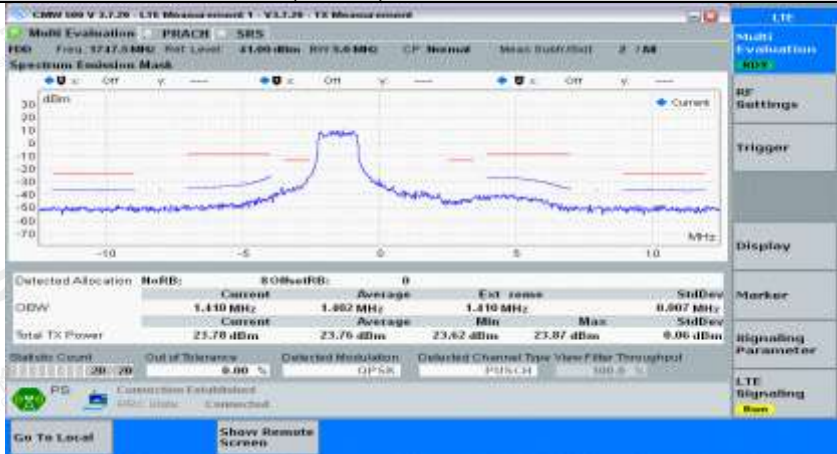
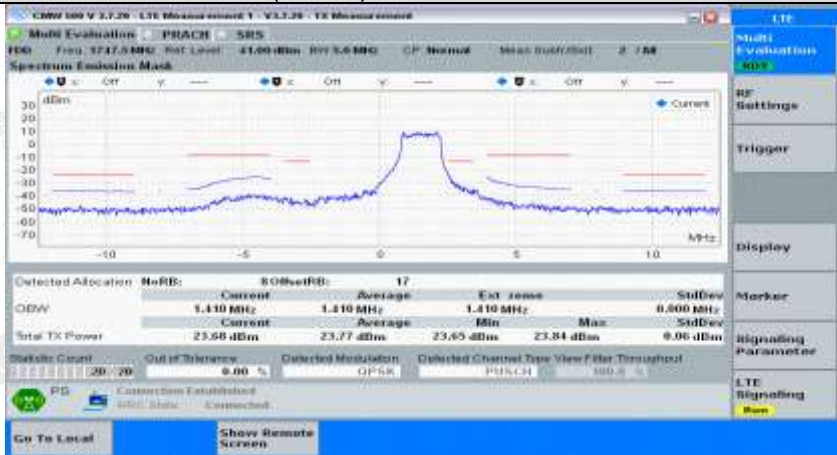
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Channel Bandwidth=(5 MHz)



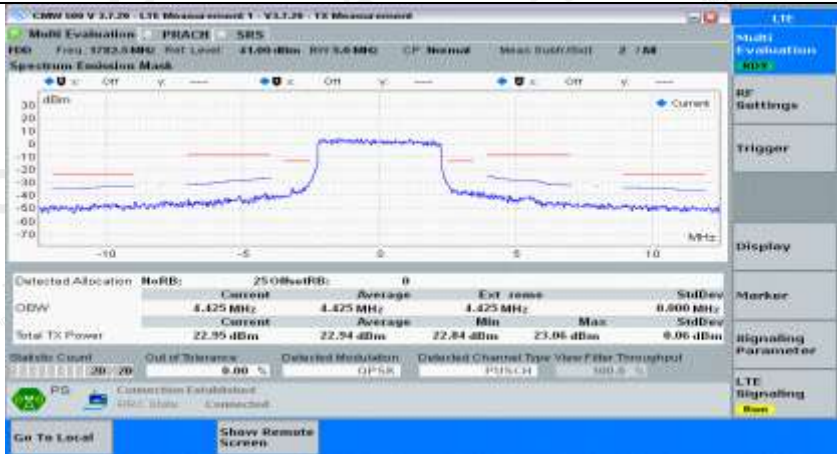
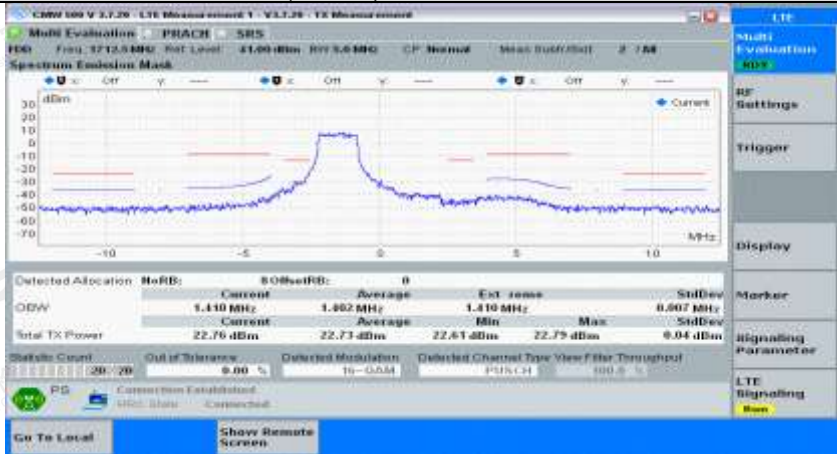
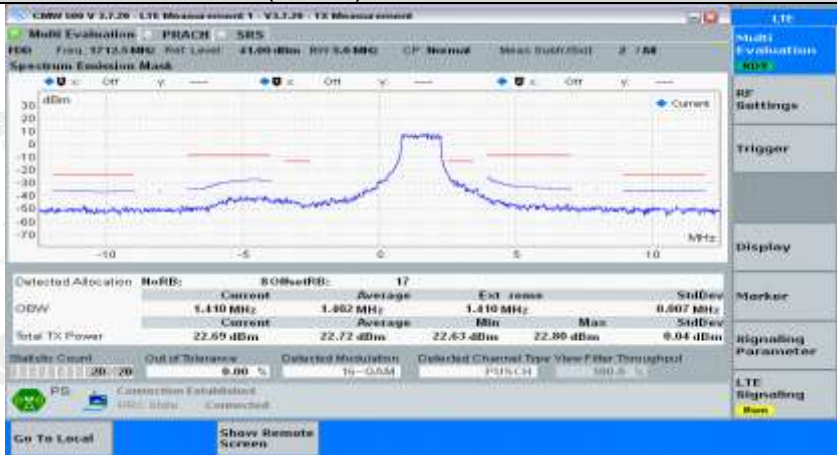
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	

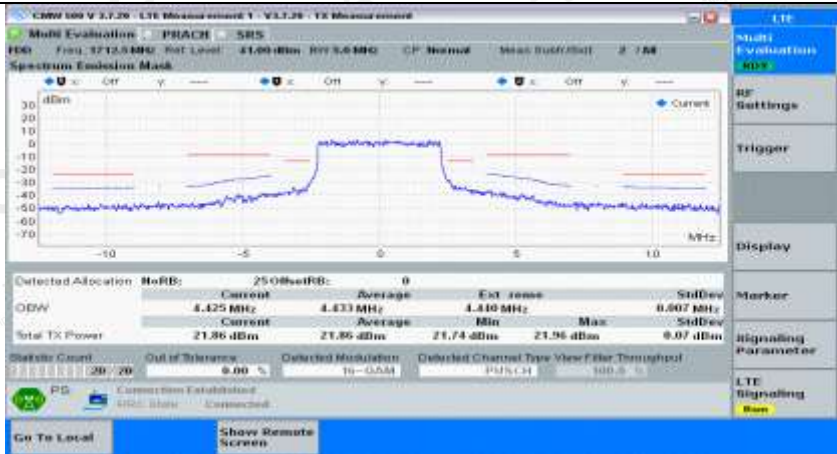
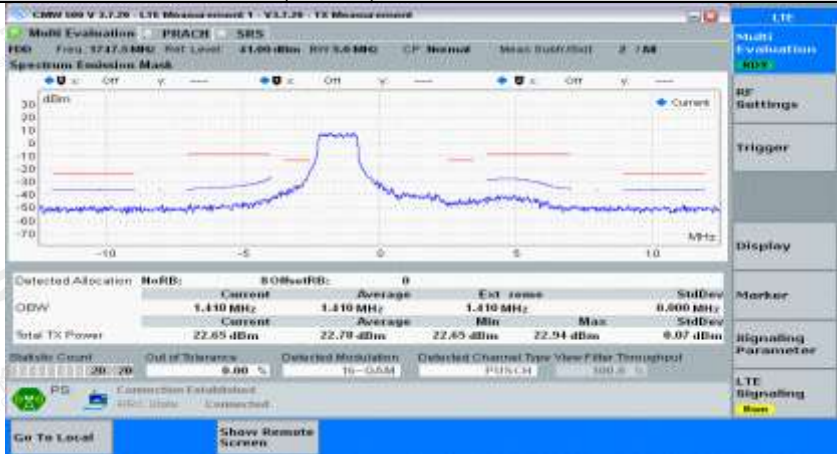
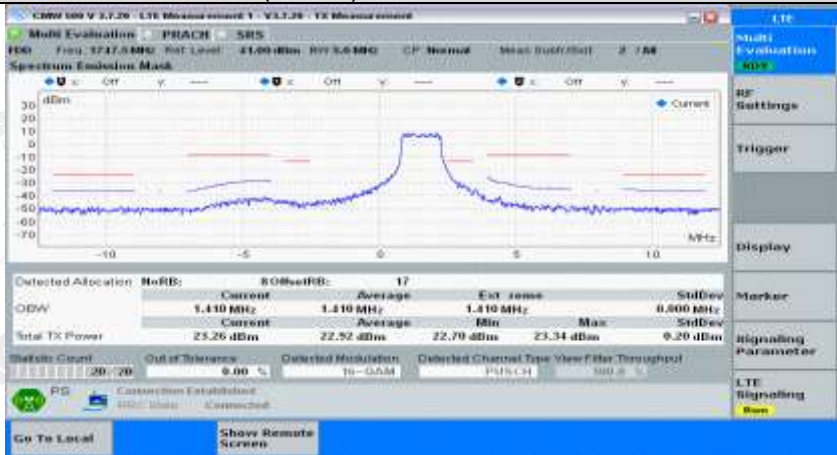
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	

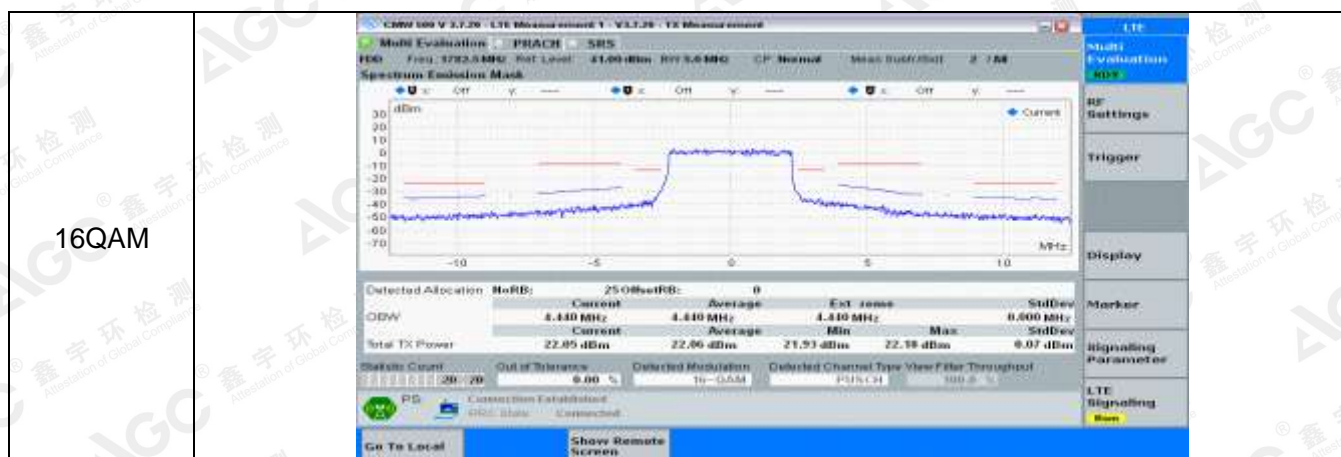
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	

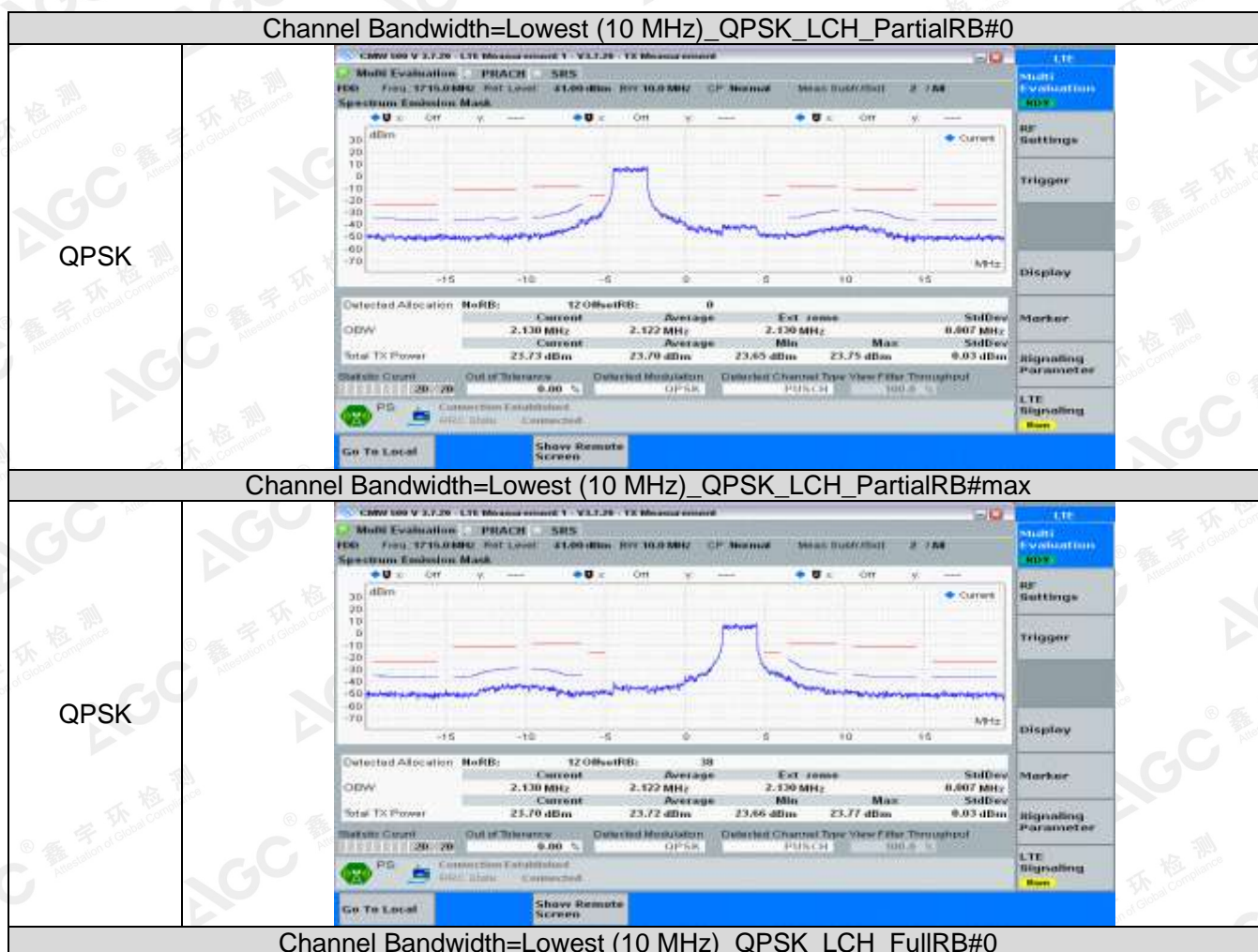
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



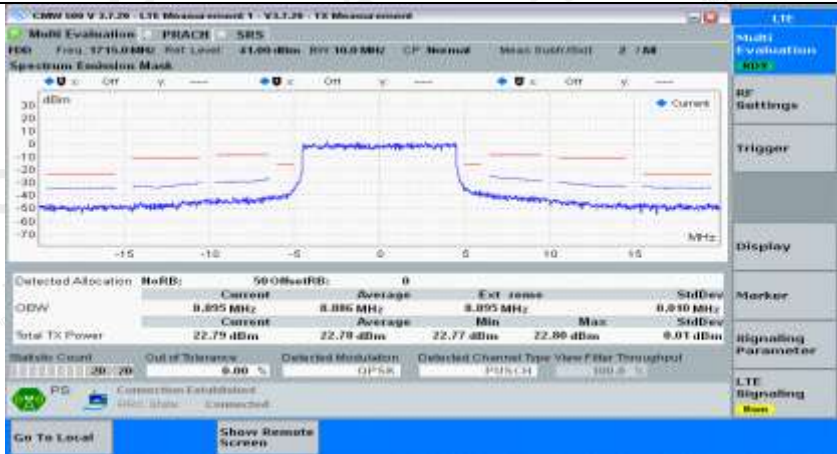
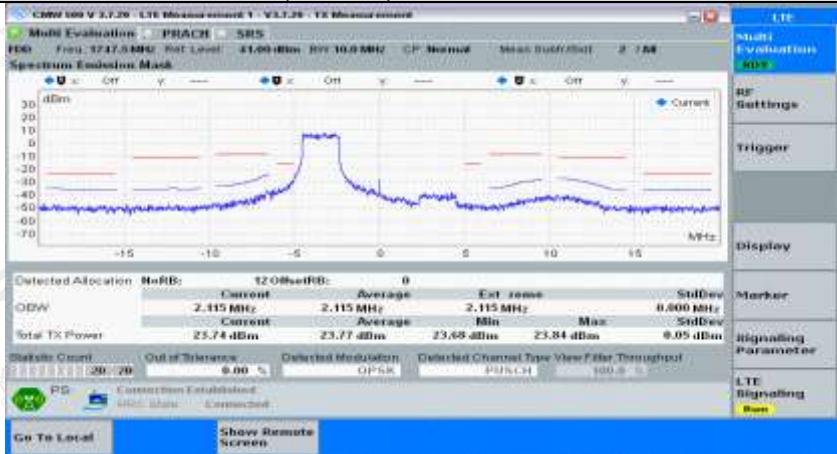
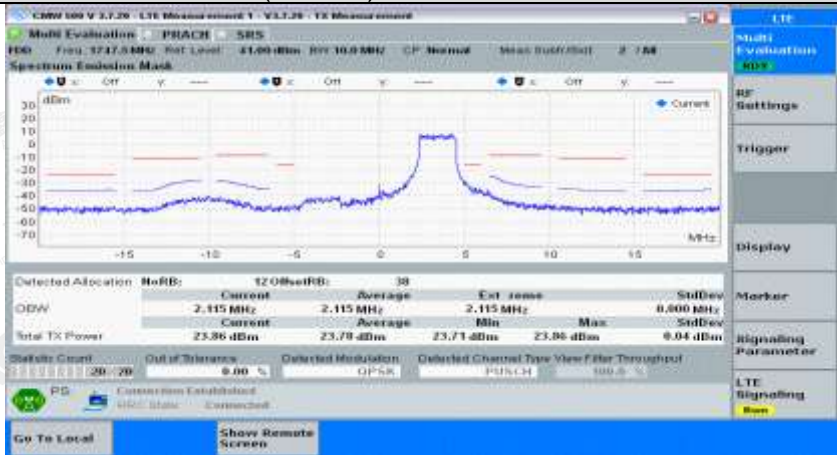
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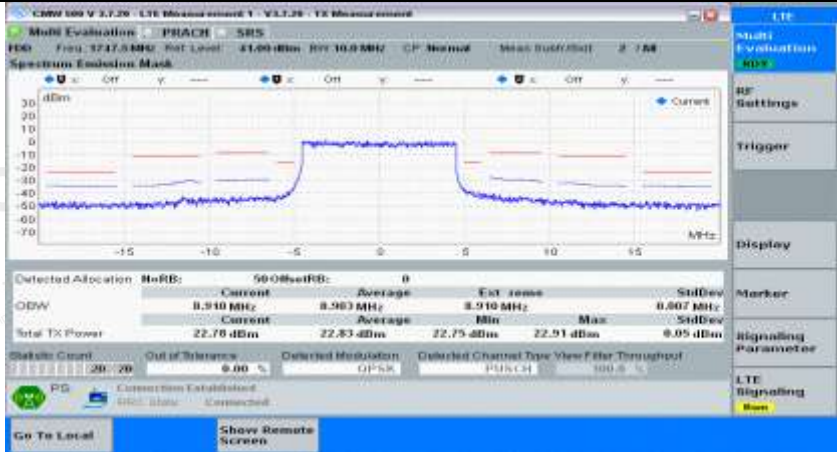
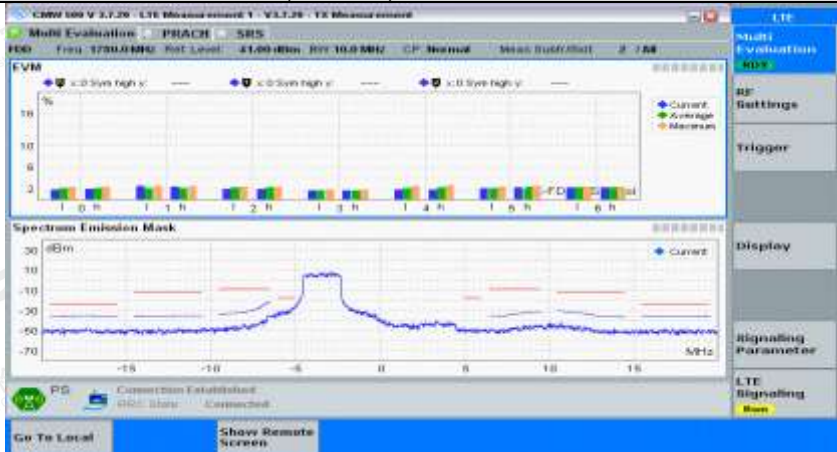
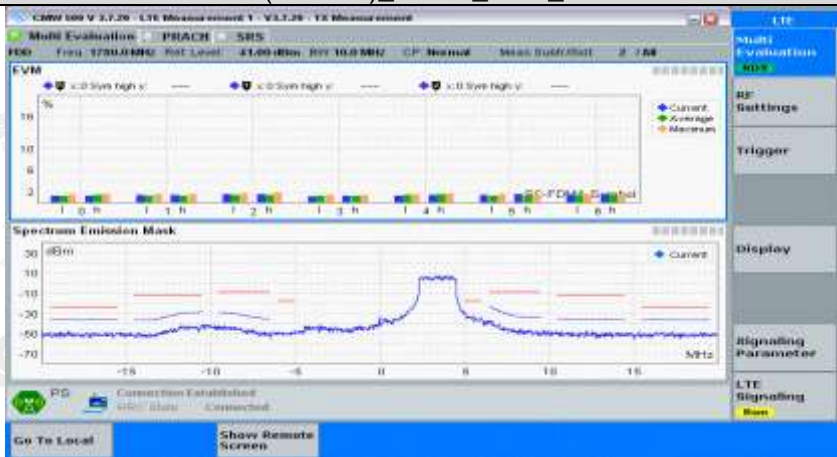
Channel Bandwidth= (10 MHz)



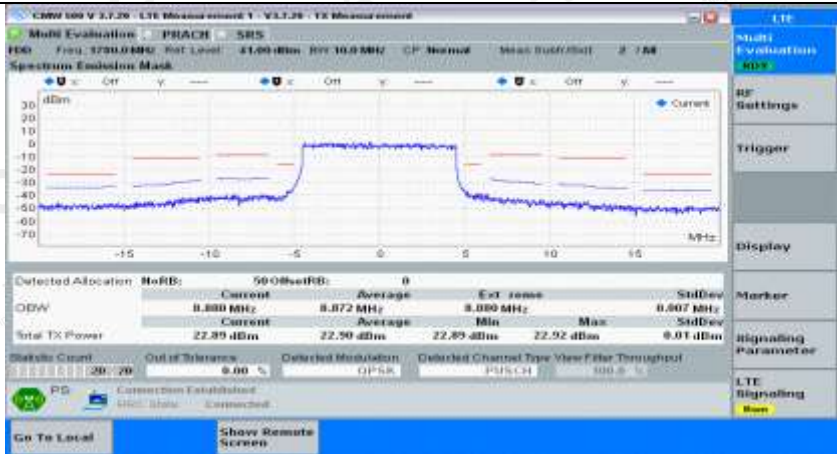
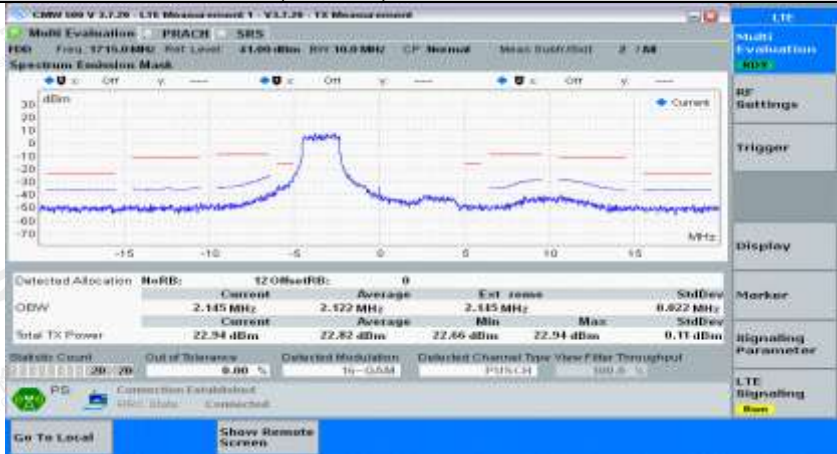
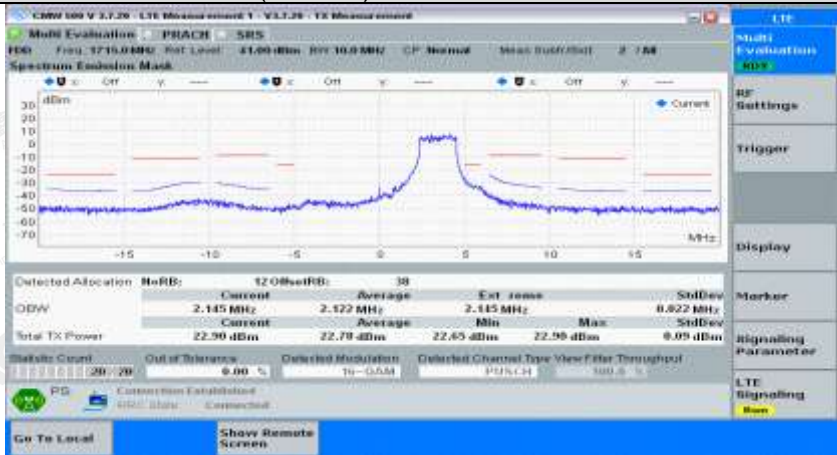
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	

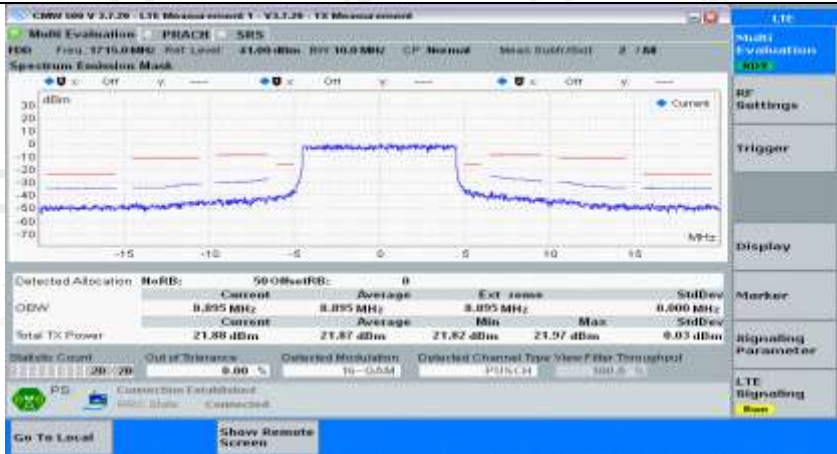
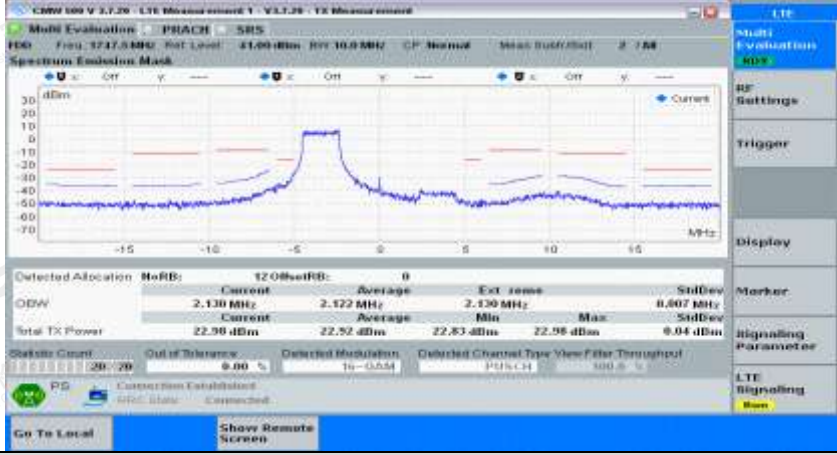
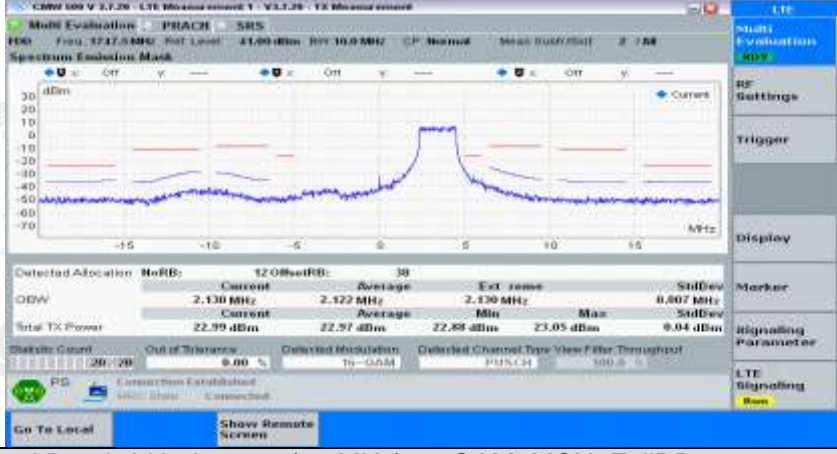
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	

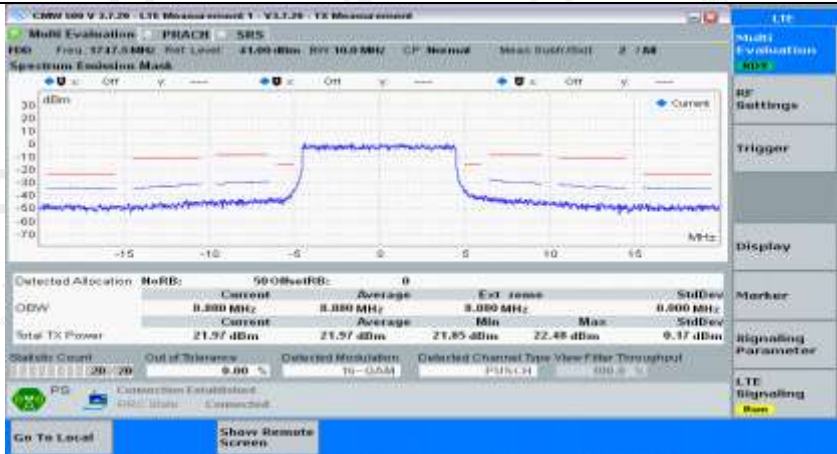
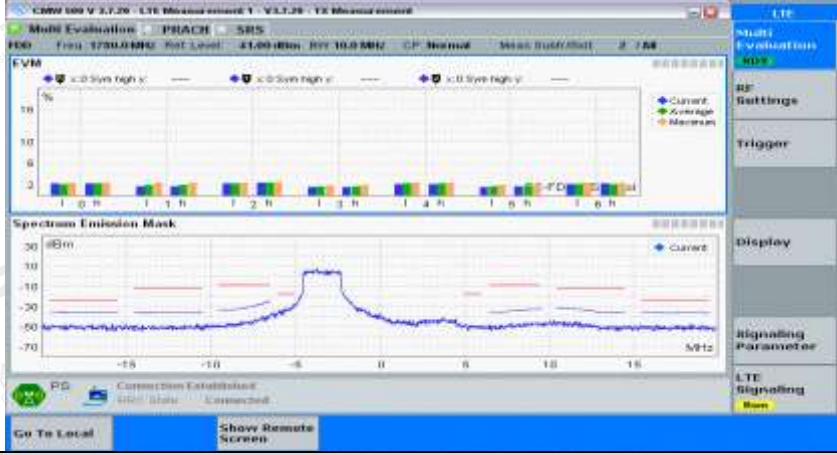
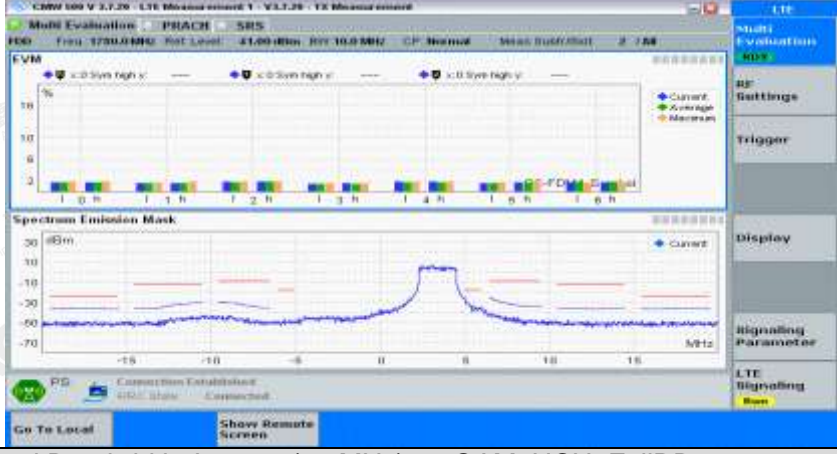
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	

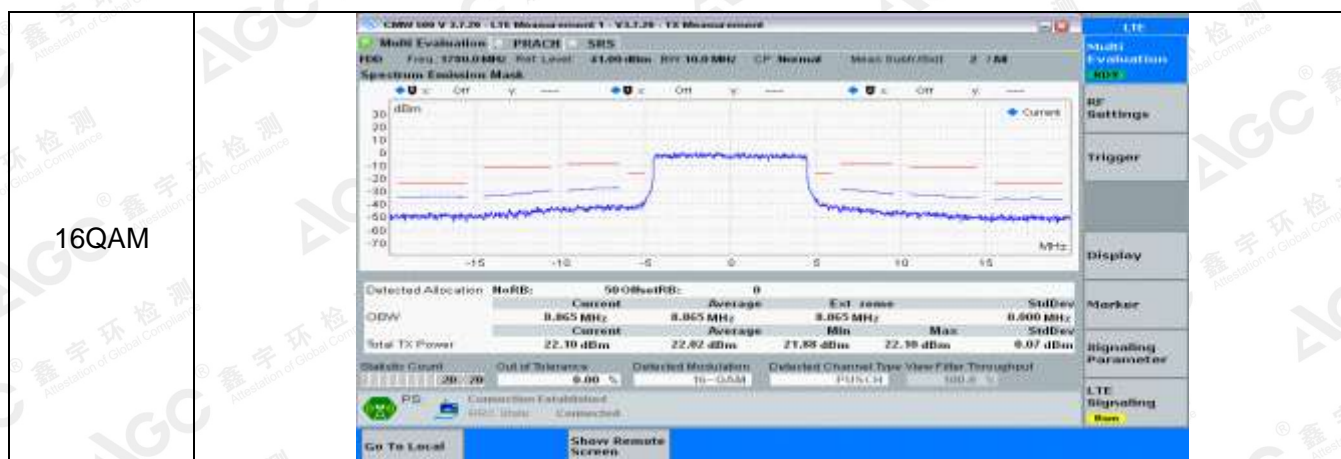
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	

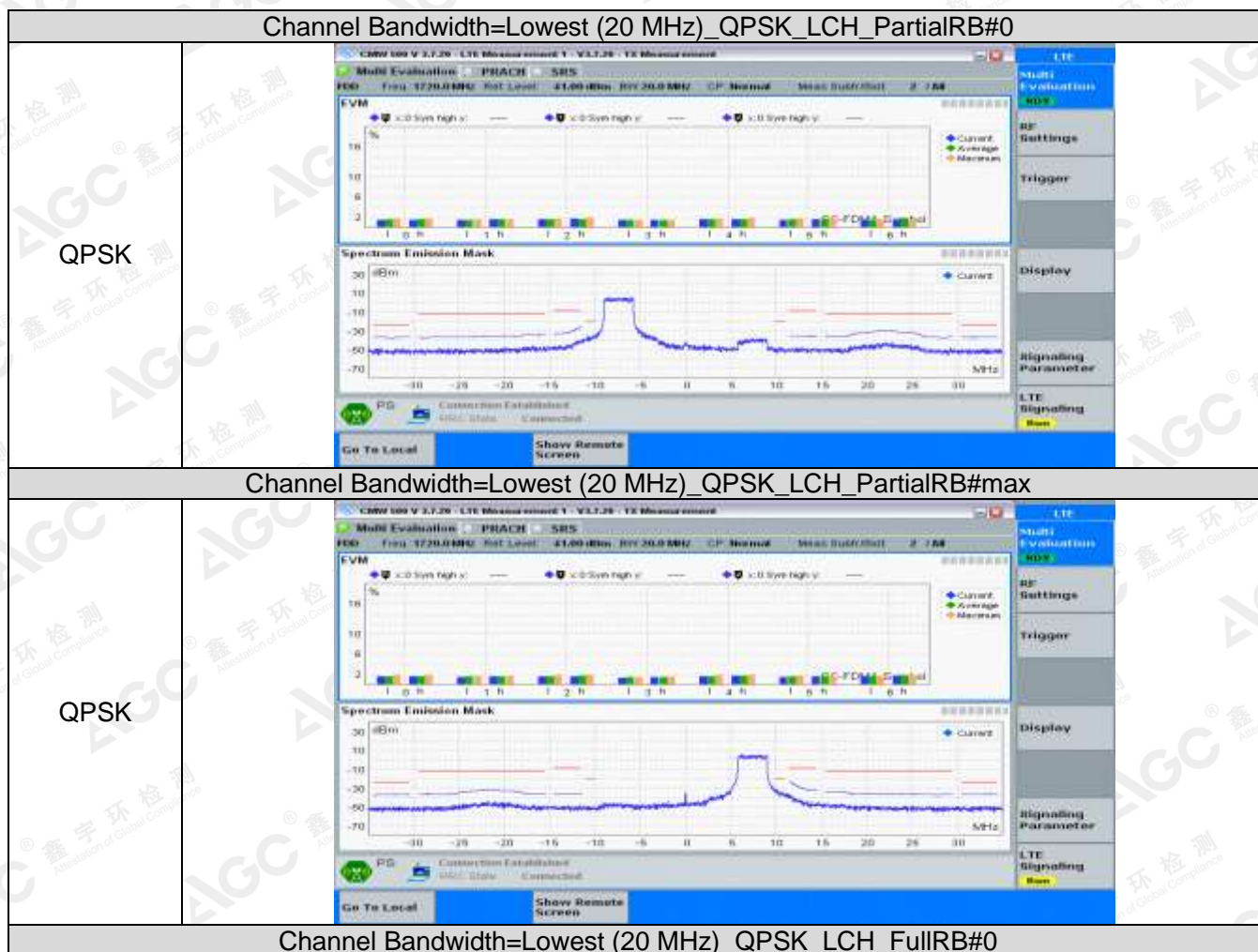
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullIRB#0	

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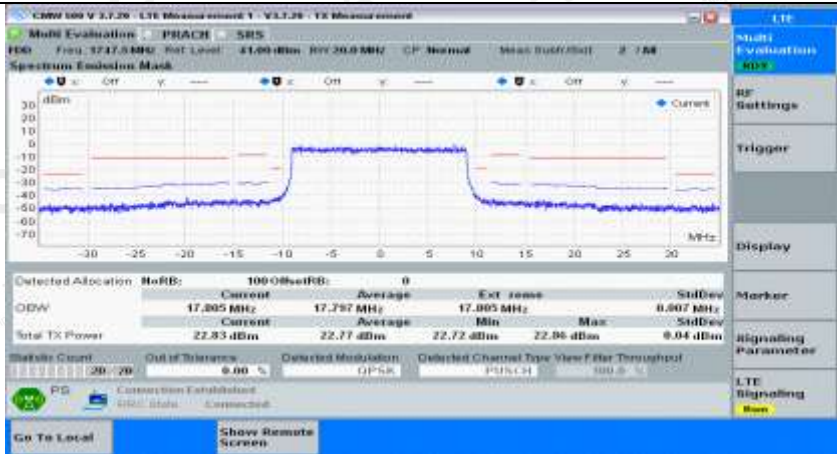
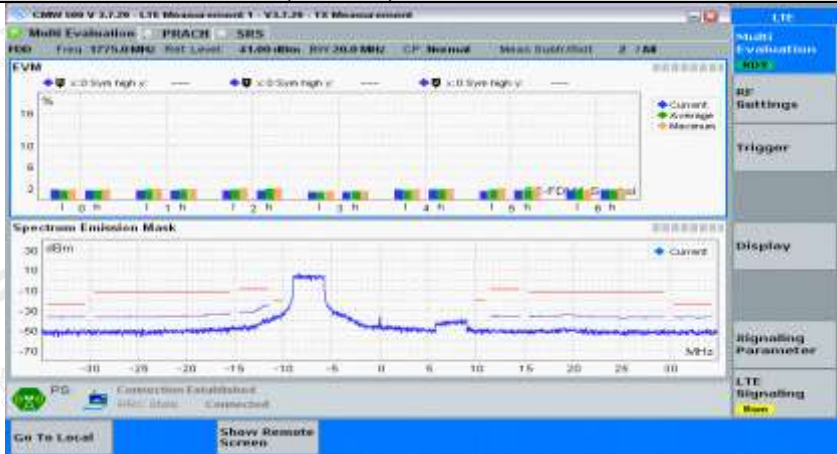
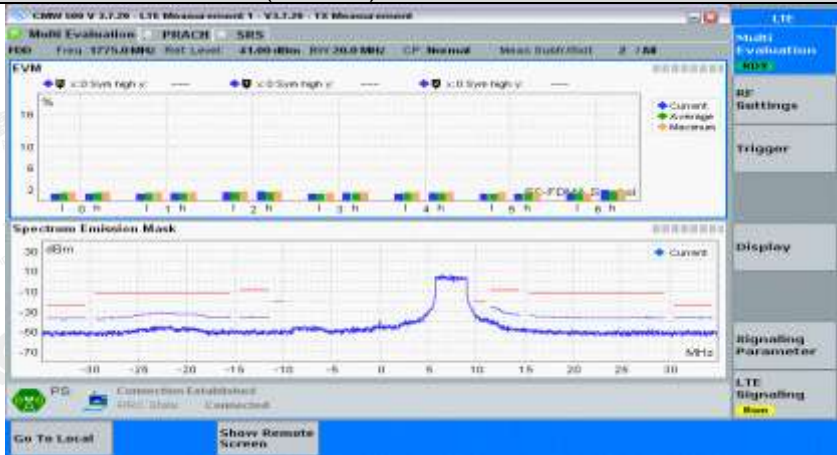
Channel Bandwidth=Highest (20 MHz)



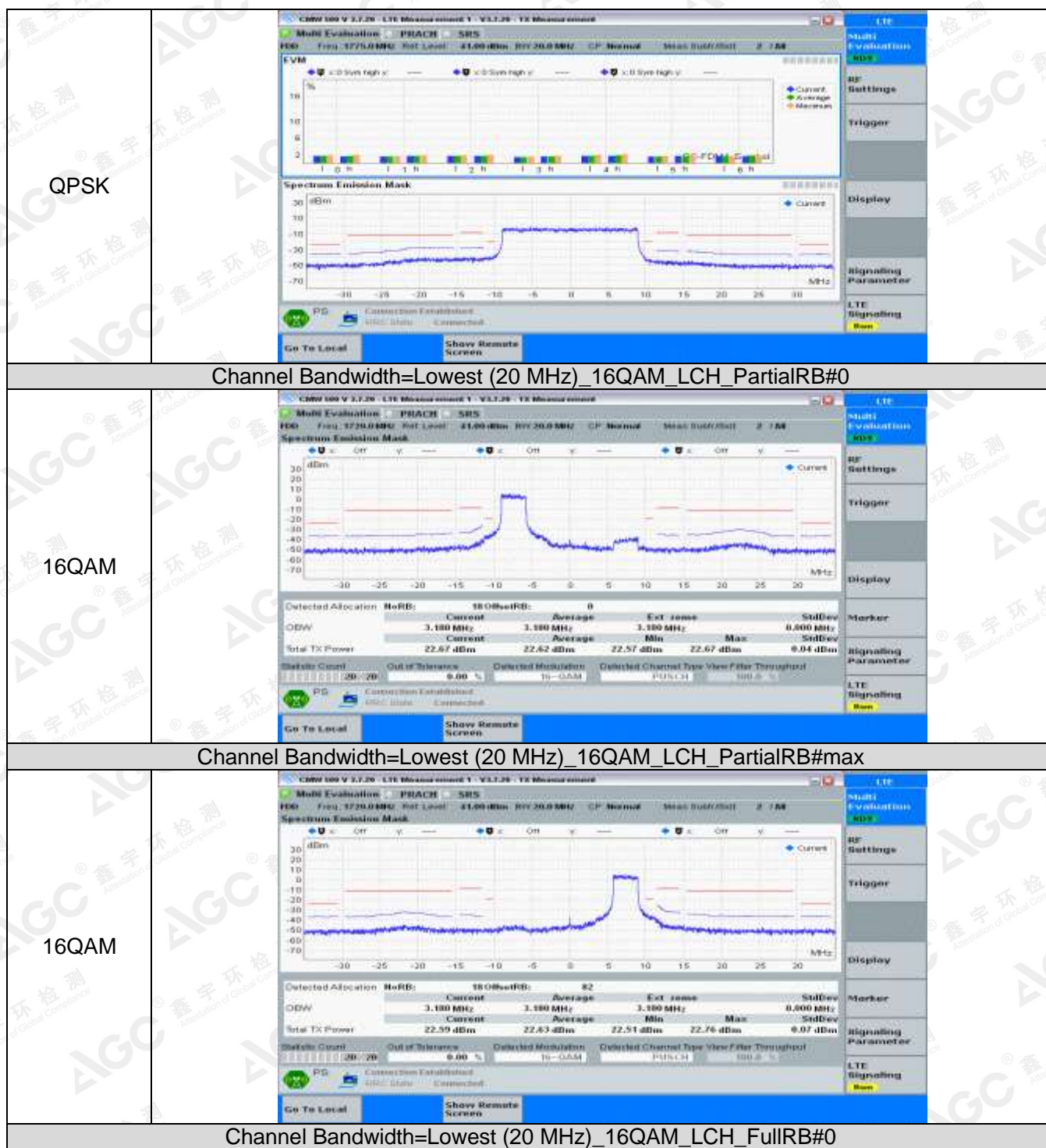
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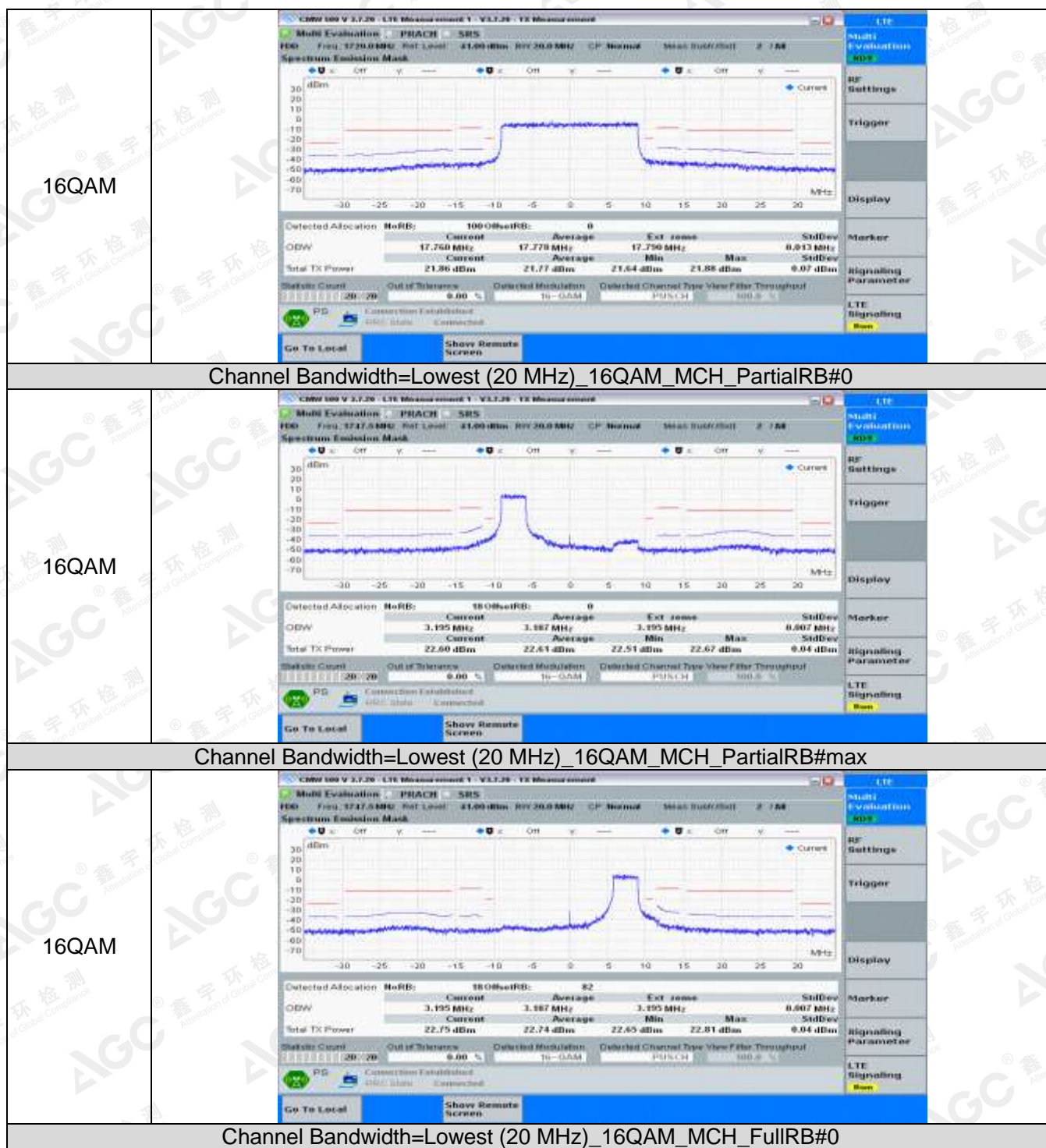
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	

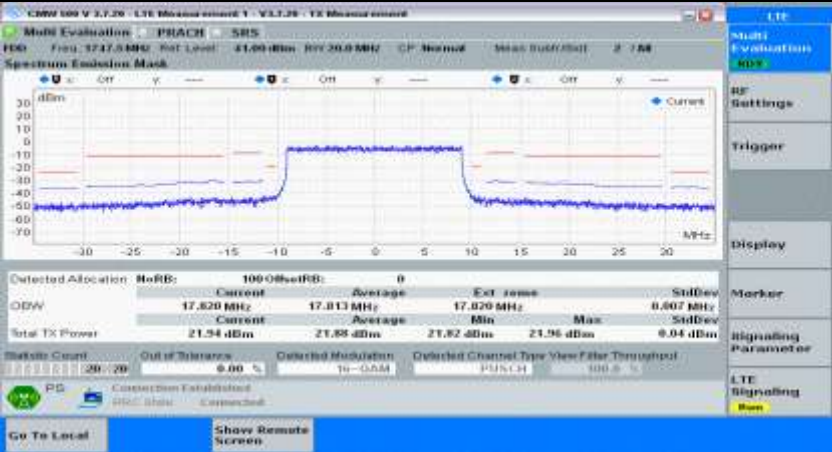
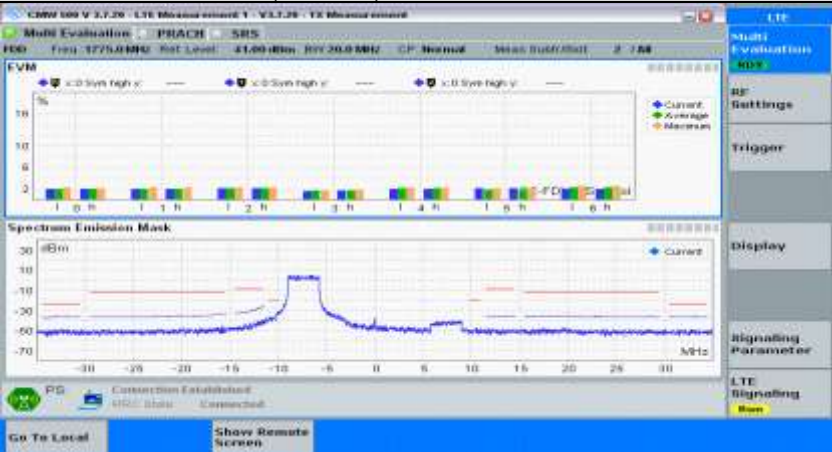
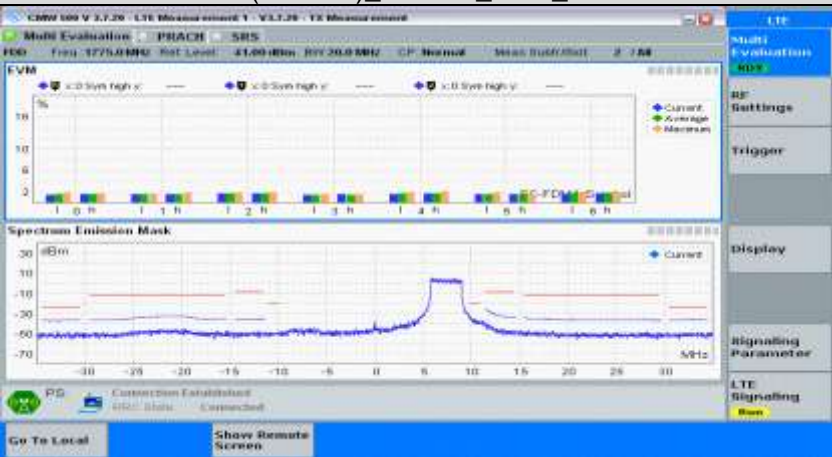
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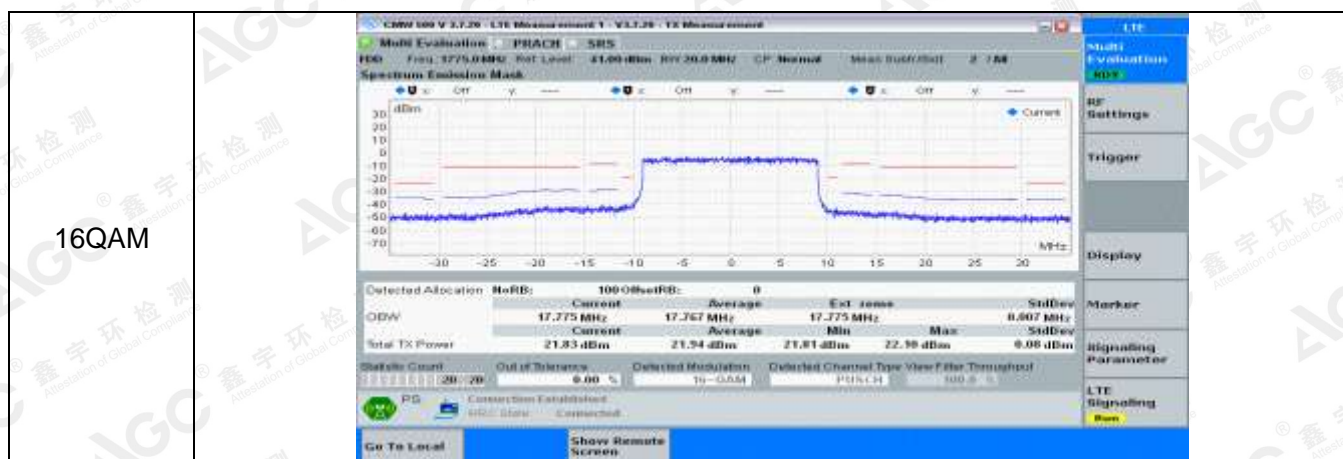
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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	16QAM	Low range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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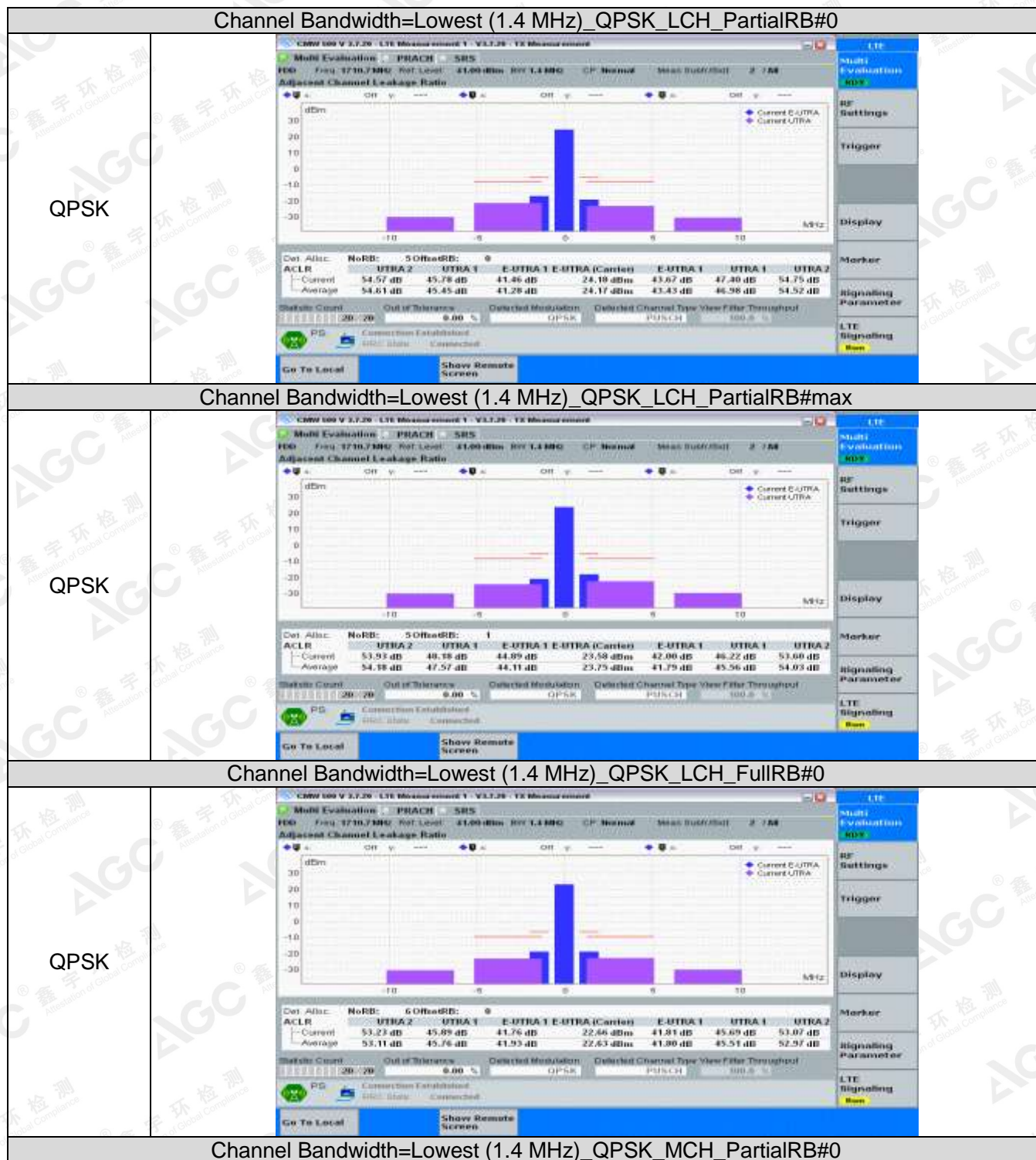
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range		Partial	0	PUMAX
				max		PUMAX	Pass
				Full	0	PUMAX	Pass
	Low range		Partial		0	PUMAX	Pass
				max	PUMAX	Pass	
			Full	0	PUMAX	Pass	
	Mid range			Partial	0	PUMAX	Pass
			max		PUMAX	Pass	
			Full	0	PUMAX	Pass	
High range	Partial	0		PUMAX	Pass		
		max	PUMAX	Pass			
	Full	0	PUMAX	Pass			

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Test Graphs

NTNV

Channel Bandwidth=Lowest (1.4 MHz)



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QPSK



Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max

QPSK






Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0

QPSK






Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0

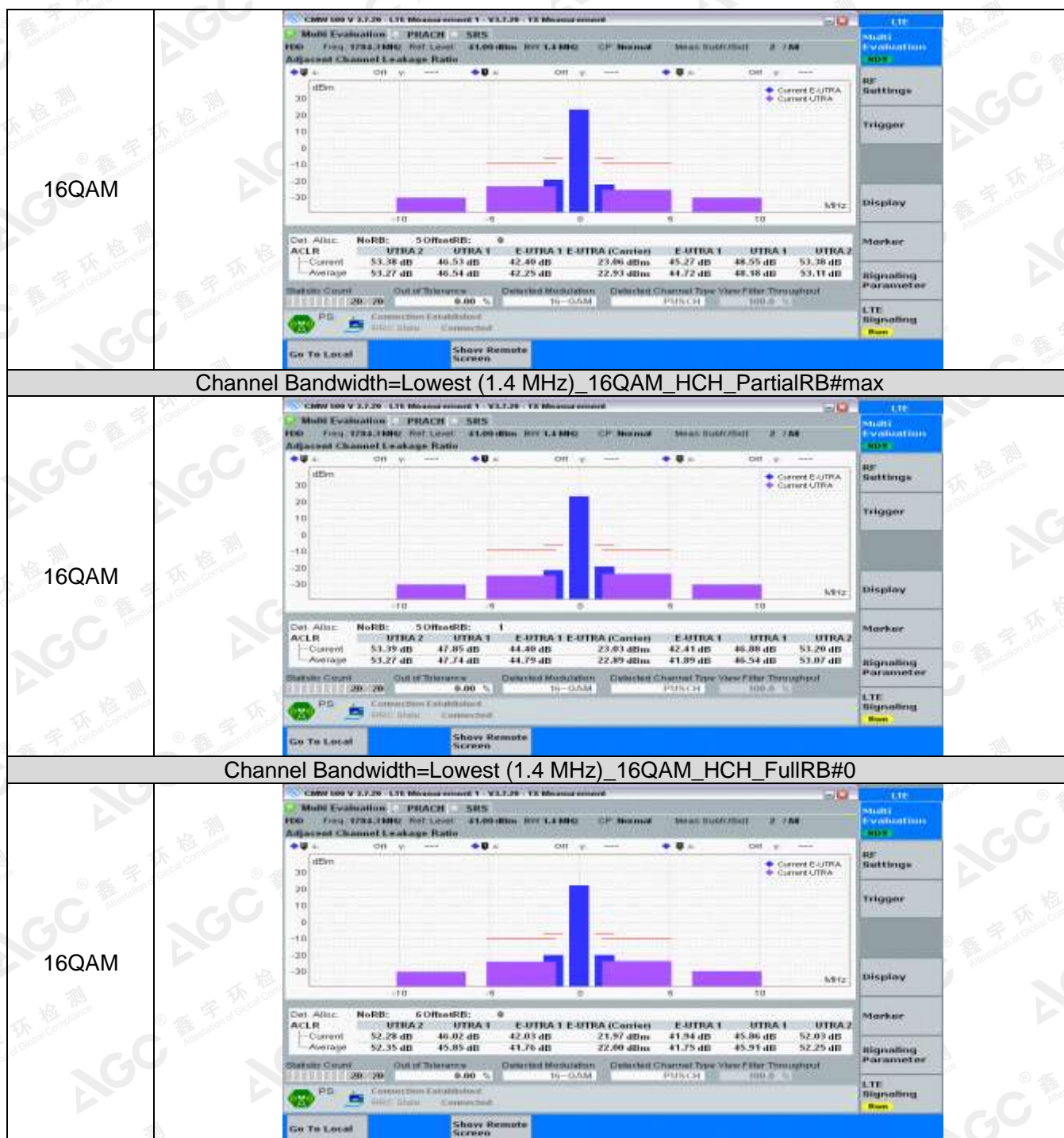
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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>5 Offsets</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td>53.28 dB</td><td>47.36 dB</td><td>43.97 dB</td><td>22.87 dBm</td><td>46.13 dB</td><td>48.32 dB</td><td>53.00 dB</td></tr><tr><td>Average</td><td></td><td></td><td>53.33 dB</td><td>47.07 dB</td><td>43.76 dB</td><td>22.90 dBm</td><td>45.84 dB</td><td>48.32 dB</td><td>53.22 dB</td></tr></table>	Det. Alloc.	NoRB	5 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	ACLR			53.28 dB	47.36 dB	43.97 dB	22.87 dBm	46.13 dB	48.32 dB	53.00 dB	Average			53.33 dB	47.07 dB	43.76 dB	22.90 dBm	45.84 dB	48.32 dB	53.22 dB
Det. Alloc.	NoRB	5 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																						
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Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max																															
16QAM	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>5 Offsets</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td>53.26 dB</td><td>48.56 dB</td><td>46.24 dB</td><td>22.86 dBm</td><td>43.71 dB</td><td>47.39 dB</td><td>53.11 dB</td></tr><tr><td>Average</td><td></td><td></td><td>53.33 dB</td><td>48.17 dB</td><td>45.71 dB</td><td>22.85 dBm</td><td>43.33 dB</td><td>47.15 dB</td><td>53.16 dB</td></tr></table>	Det. Alloc.	NoRB	5 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	ACLR			53.26 dB	48.56 dB	46.24 dB	22.86 dBm	43.71 dB	47.39 dB	53.11 dB	Average			53.33 dB	48.17 dB	45.71 dB	22.85 dBm	43.33 dB	47.15 dB	53.16 dB
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Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0																															
16QAM	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>6 Offsets</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td>52.23 dB</td><td>45.98 dB</td><td>42.92 dB</td><td>21.69 dBm</td><td>42.76 dB</td><td>45.69 dB</td><td>51.82 dB</td></tr><tr><td>Average</td><td></td><td></td><td>52.34 dB</td><td>46.37 dB</td><td>43.33 dB</td><td>21.86 dBm</td><td>42.83 dB</td><td>45.94 dB</td><td>52.17 dB</td></tr></table>	Det. Alloc.	NoRB	6 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	ACLR			52.23 dB	45.98 dB	42.92 dB	21.69 dBm	42.76 dB	45.69 dB	51.82 dB	Average			52.34 dB	46.37 dB	43.33 dB	21.86 dBm	42.83 dB	45.94 dB	52.17 dB
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Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0																															

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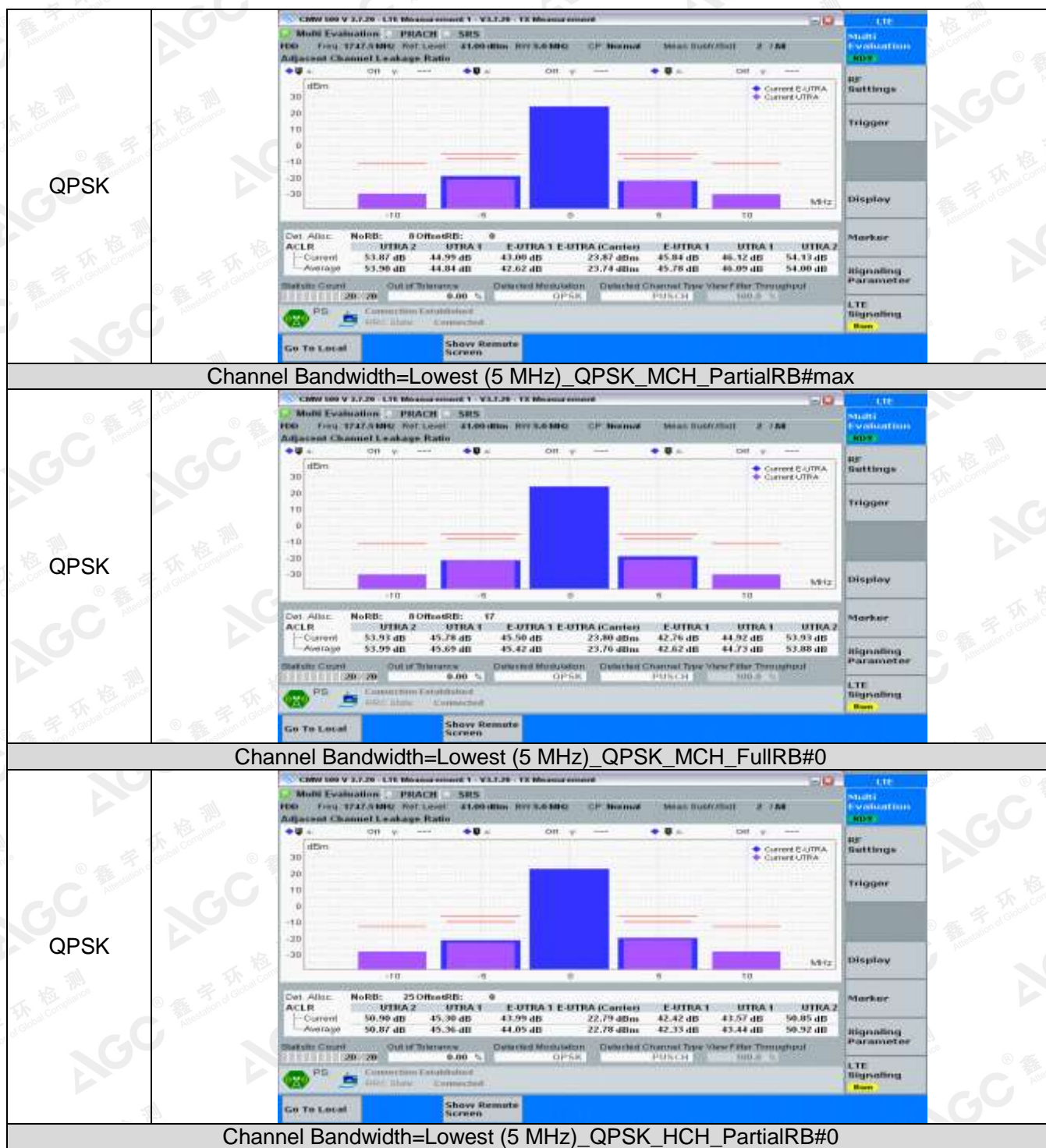


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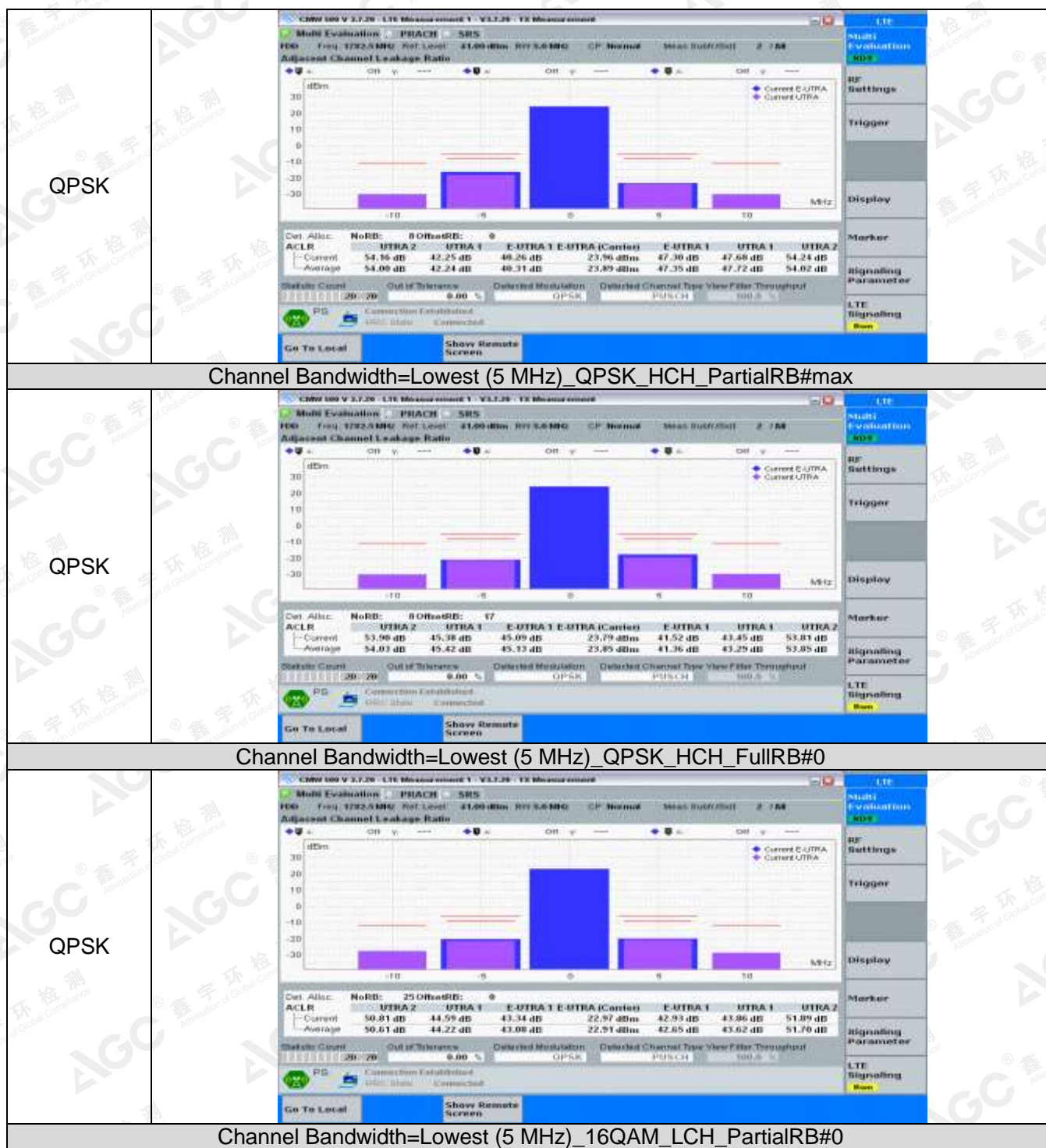
Channel Bandwidth= (5 MHz)



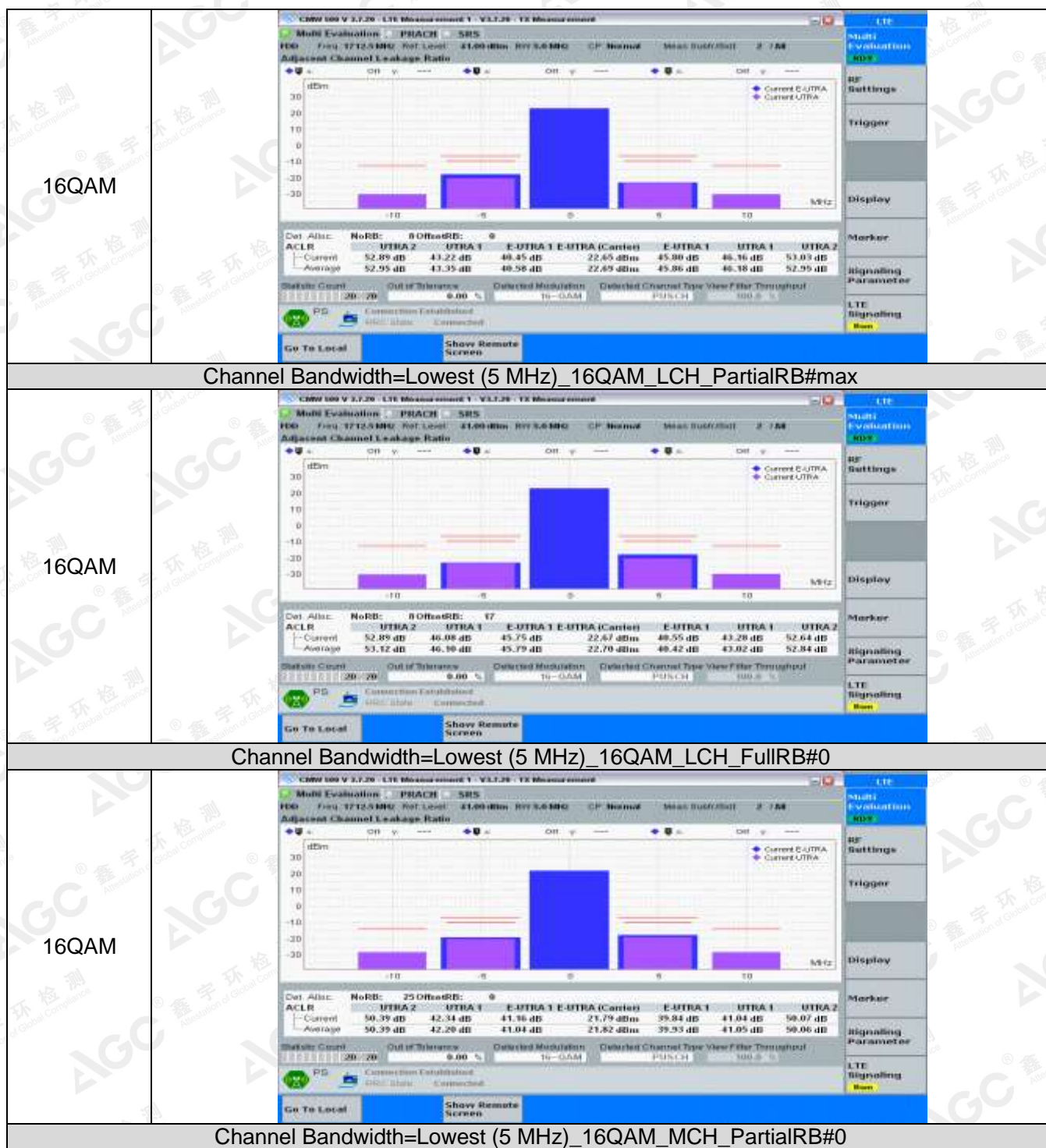
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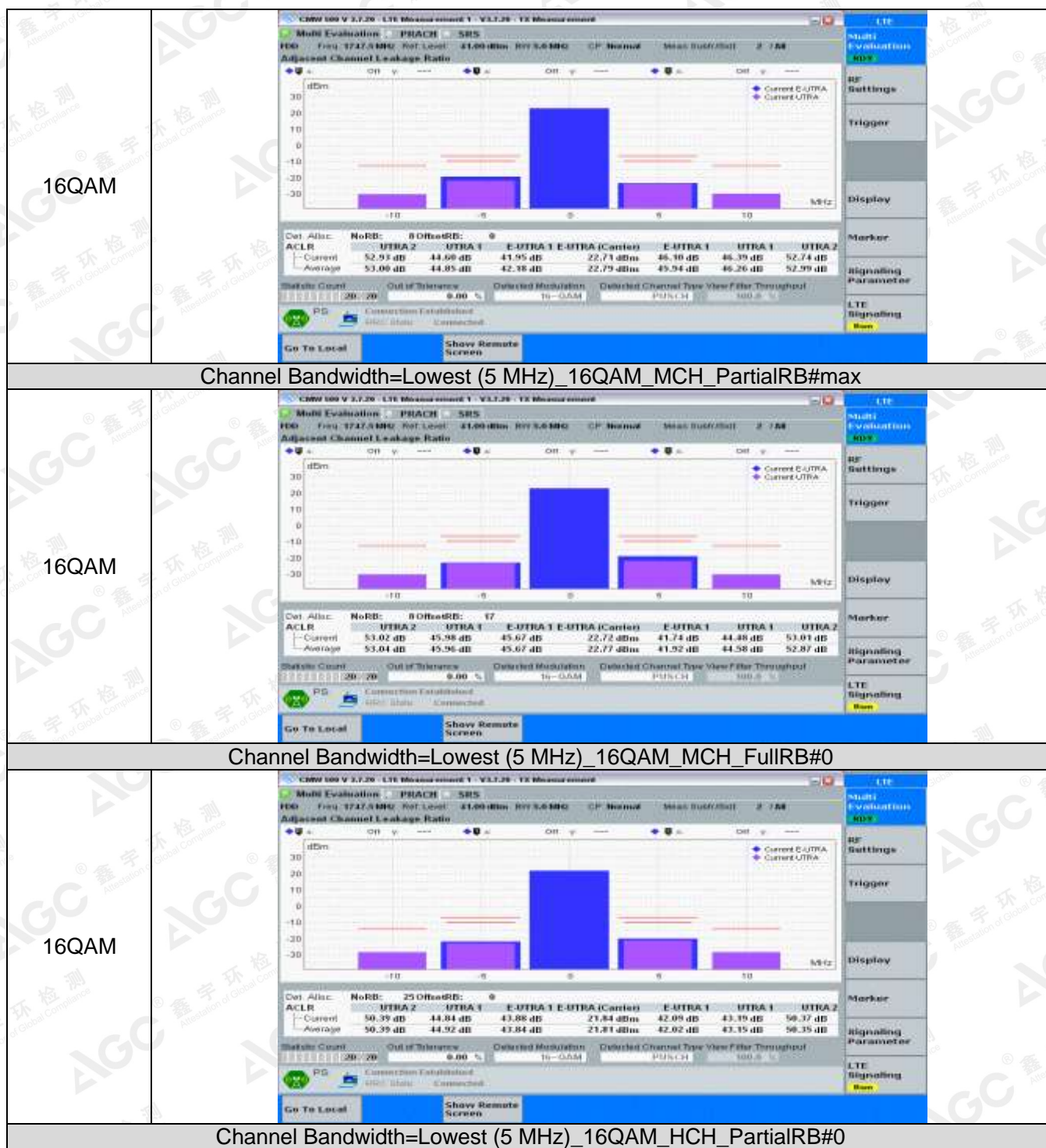
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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0

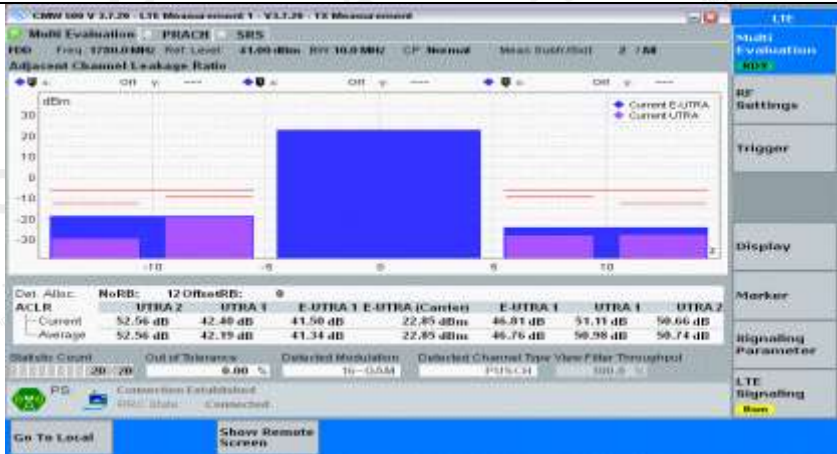


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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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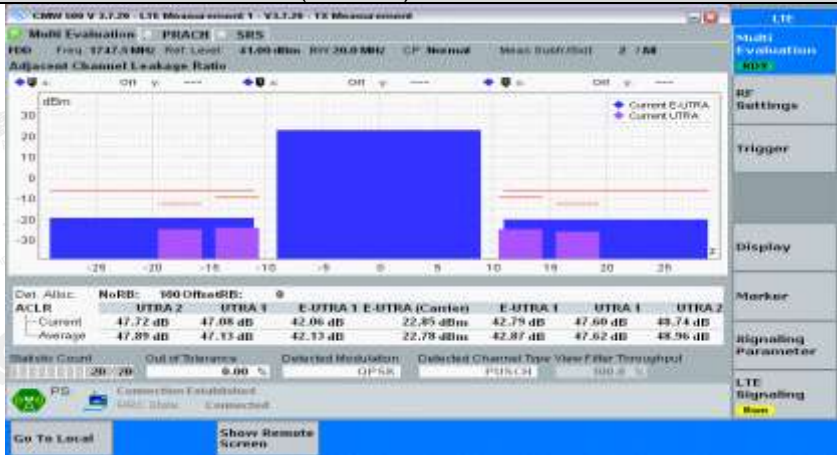
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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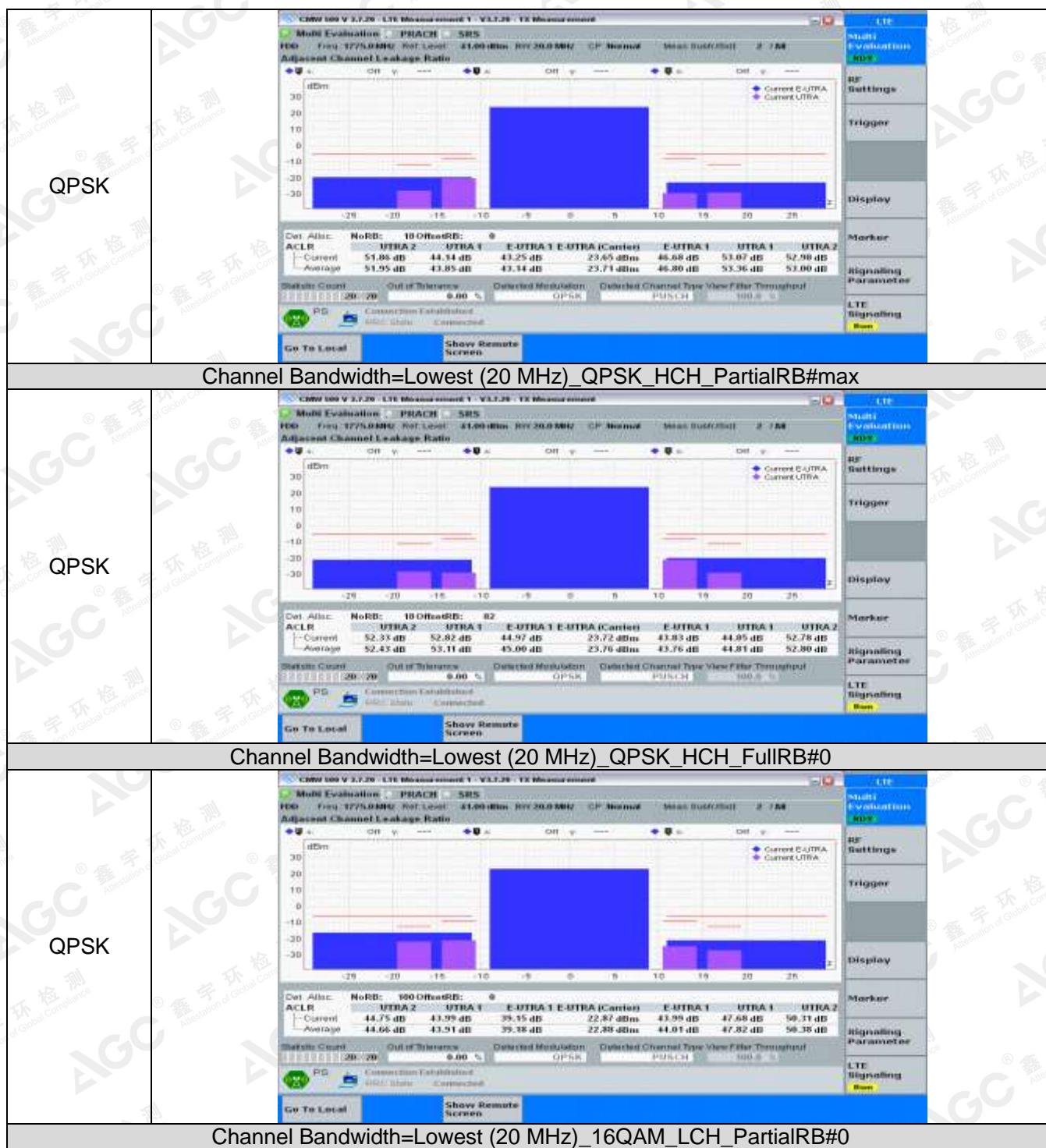
Channel Bandwidth=Highest (20 MHz)

QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0</p> 
	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>


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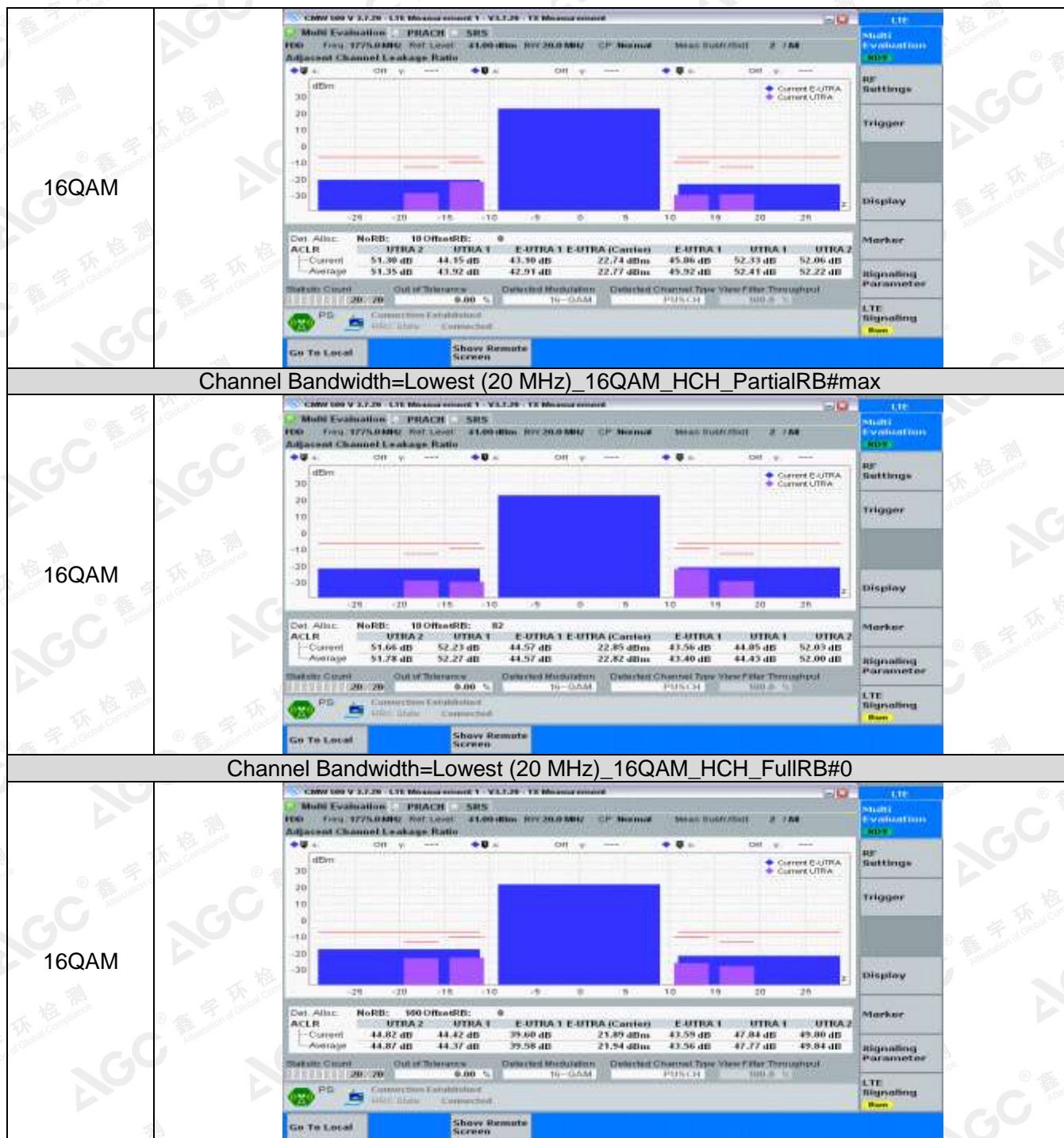
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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

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5. Transmitter Spurious Emissions

Test Result

NTV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass

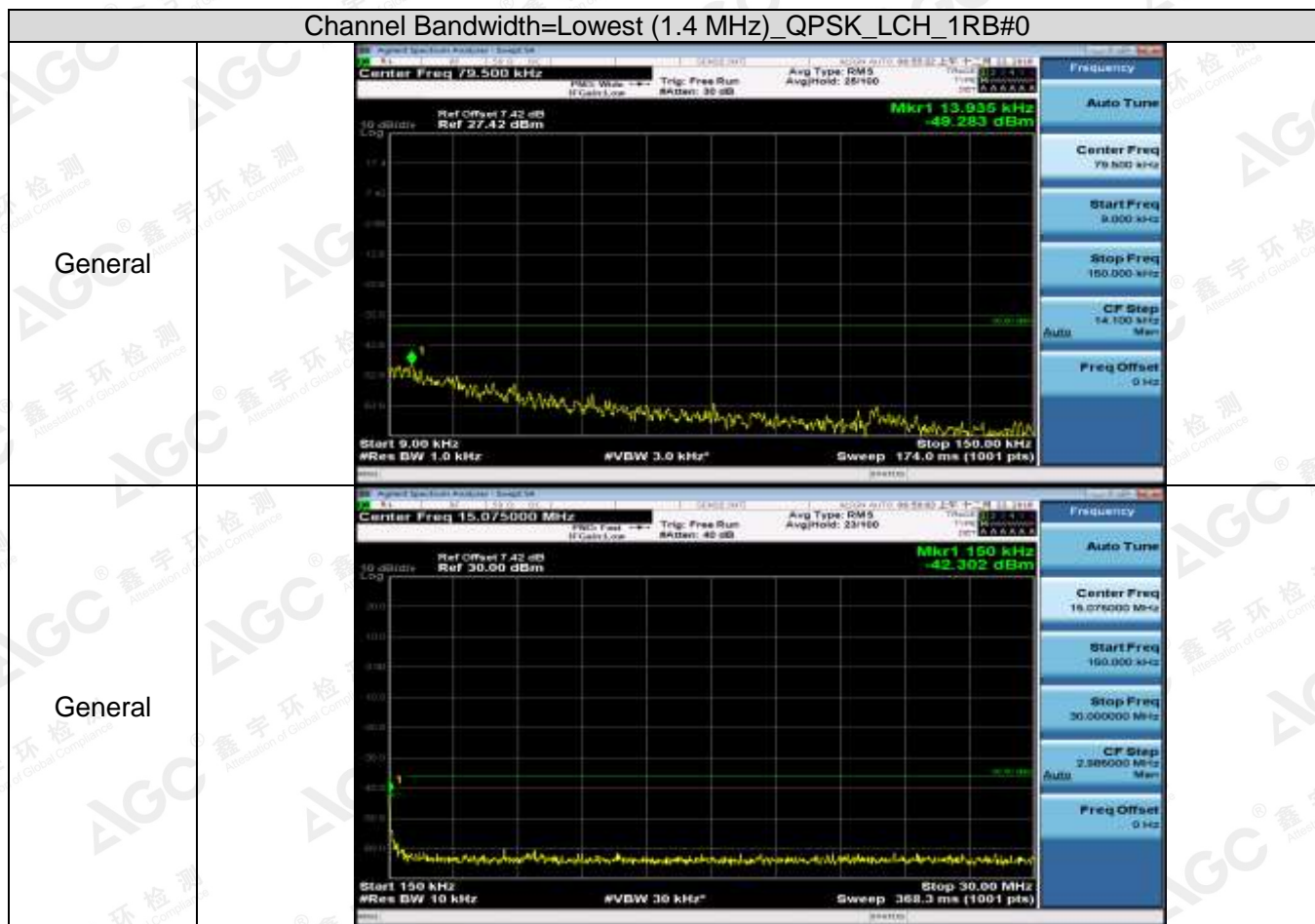
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		Mid range	Full	0	PUMAX	Pass
			1	0	PUMAX	Pass
				max	PUMAX	Pass
		High range	Full	0	PUMAX	Pass
			1	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

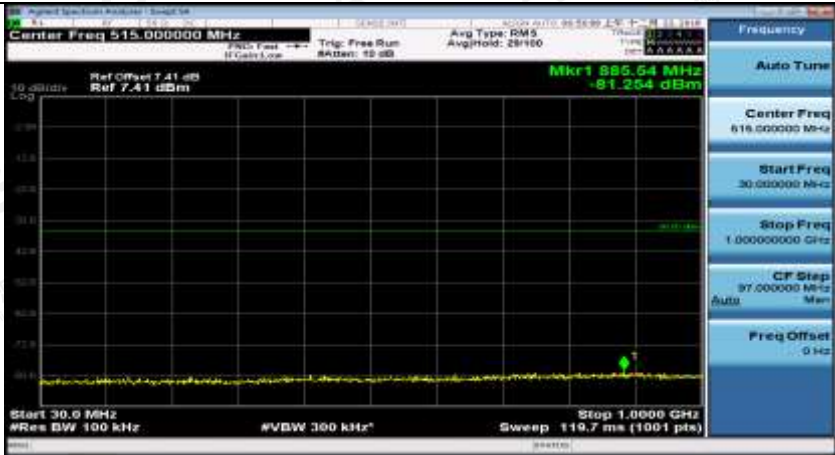
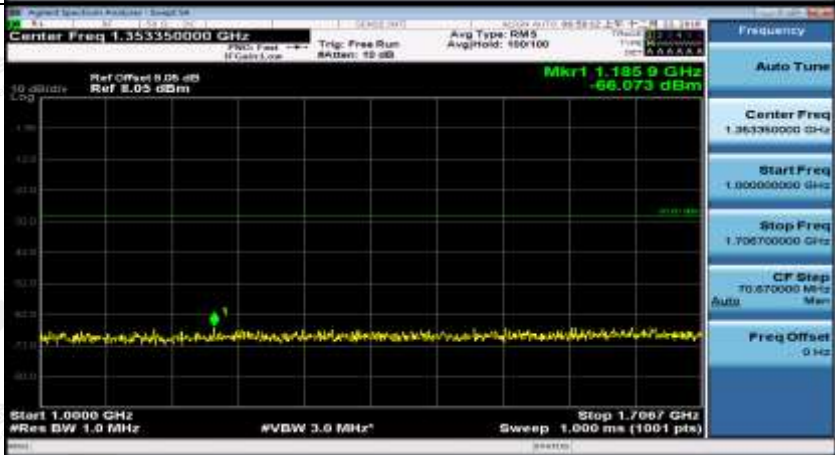
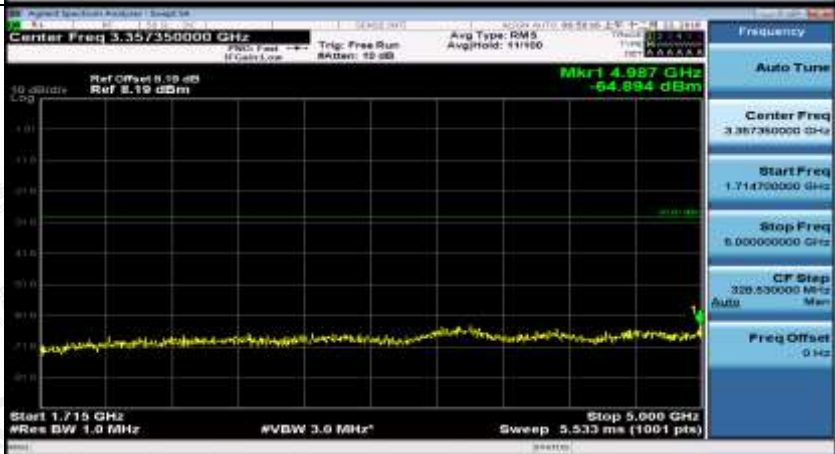
Test Graphs

NTNV


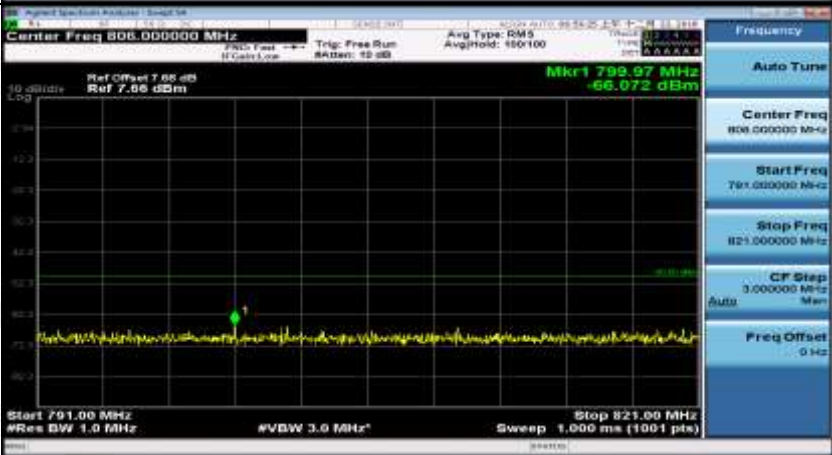

Channel Bandwidth=Lowest (1.4 MHz)



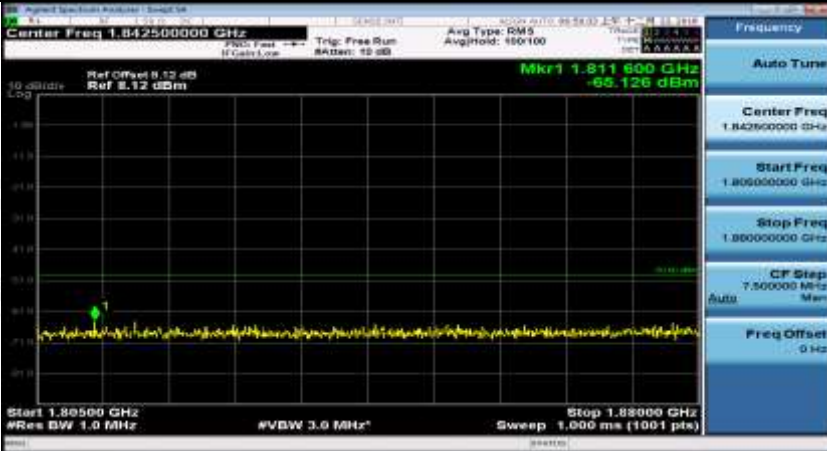
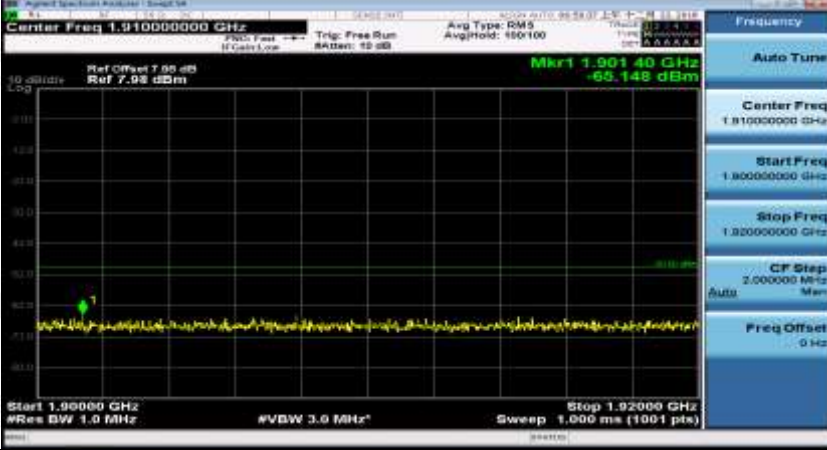

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General			
General			
General			

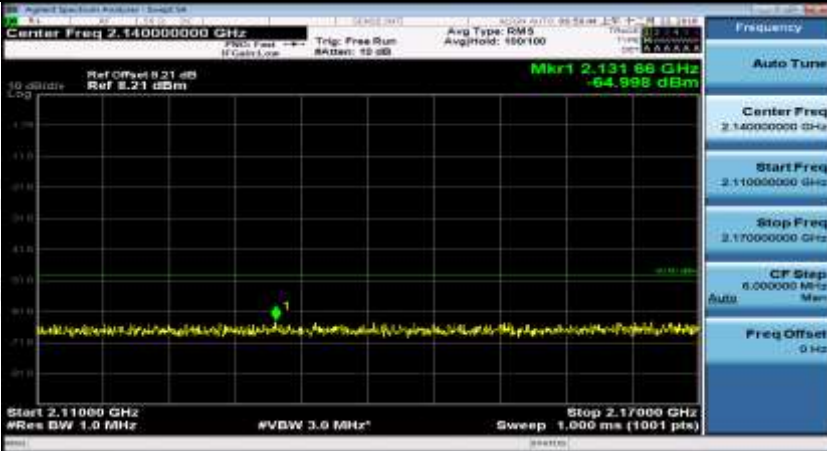
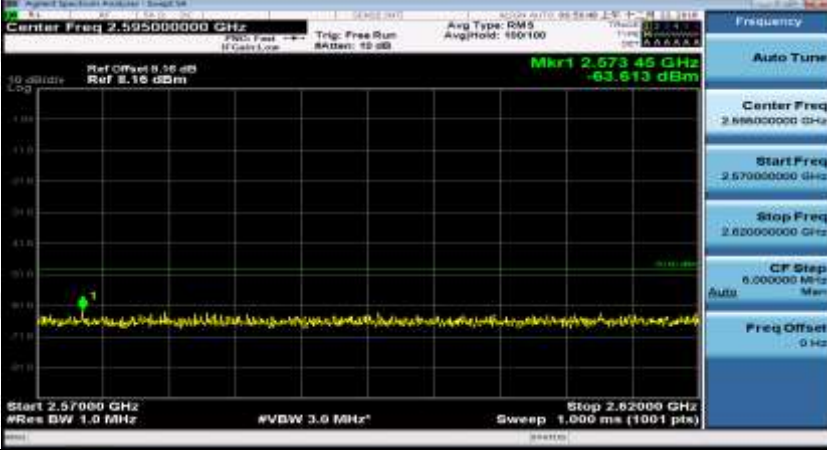
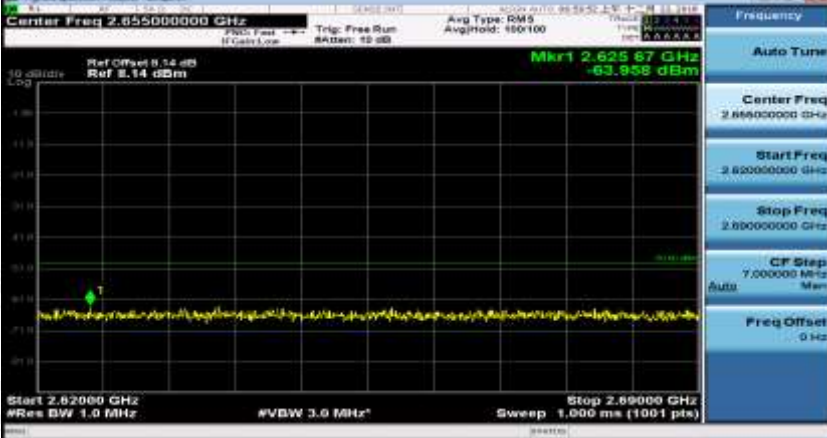
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General	
Co-existence	
Co-existence	

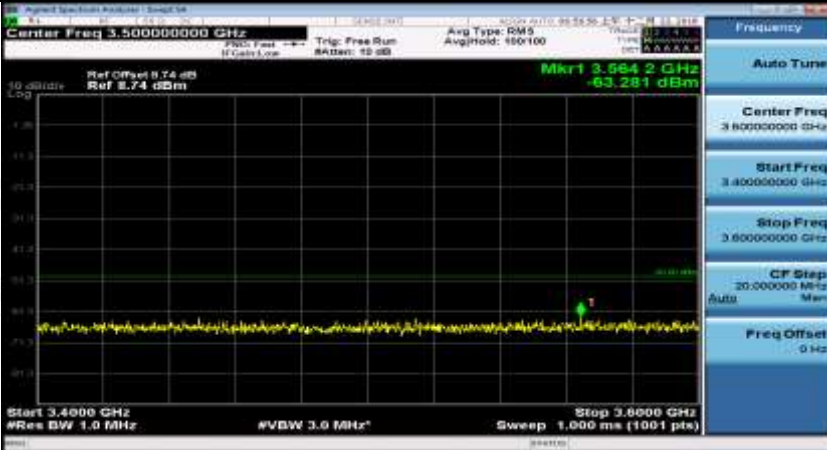
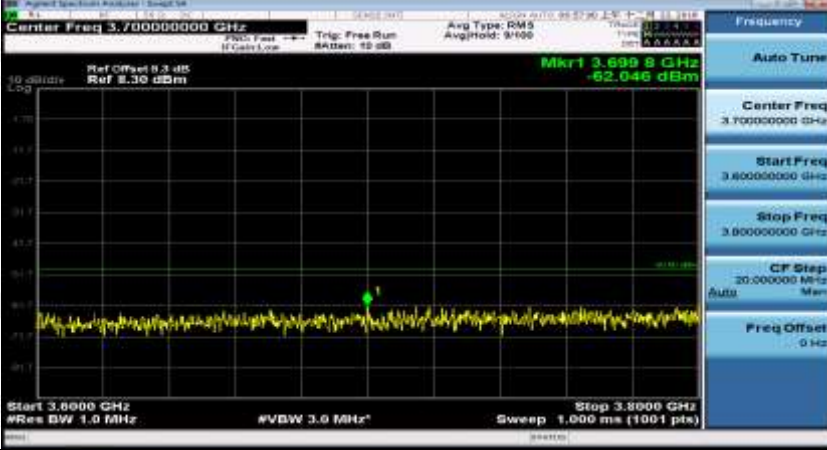
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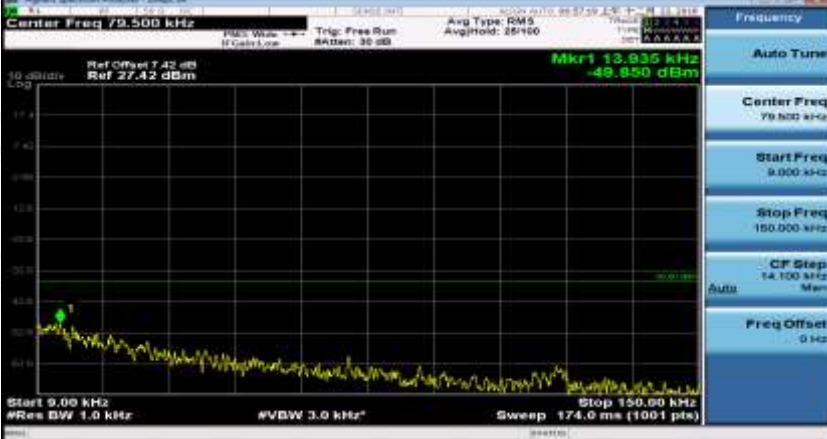
Co-existence	
Co-existence	
Co-existence	

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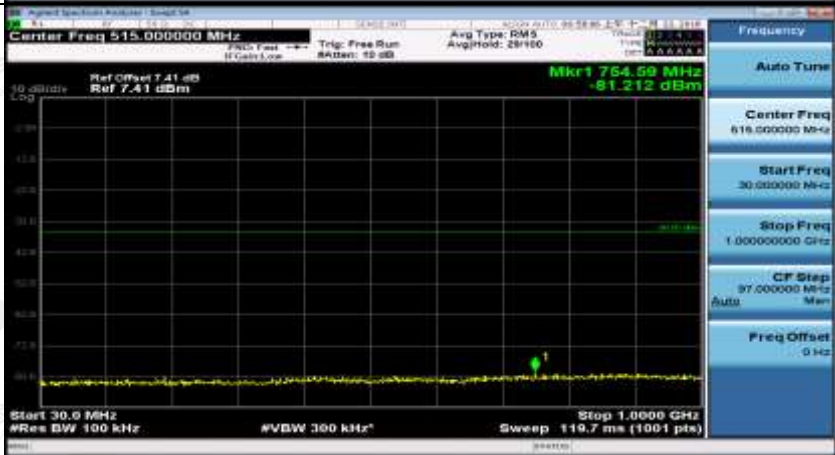
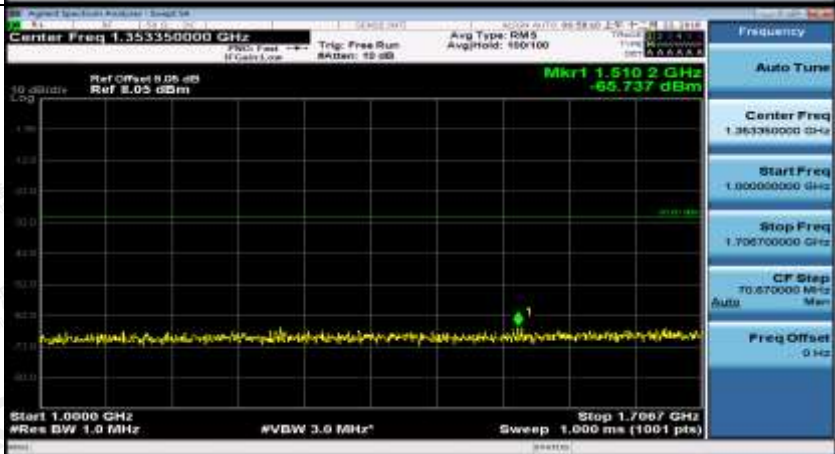
Co-existence	
Co-existence	
Co-existence	

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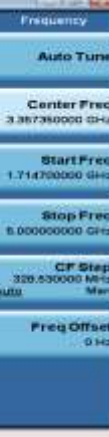

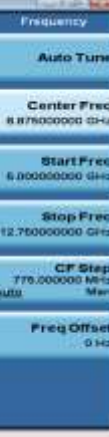
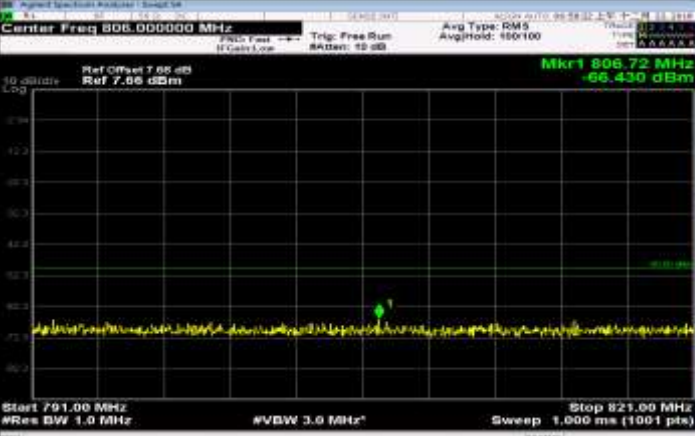
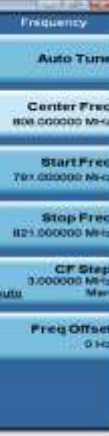
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_1RB#max	
General	


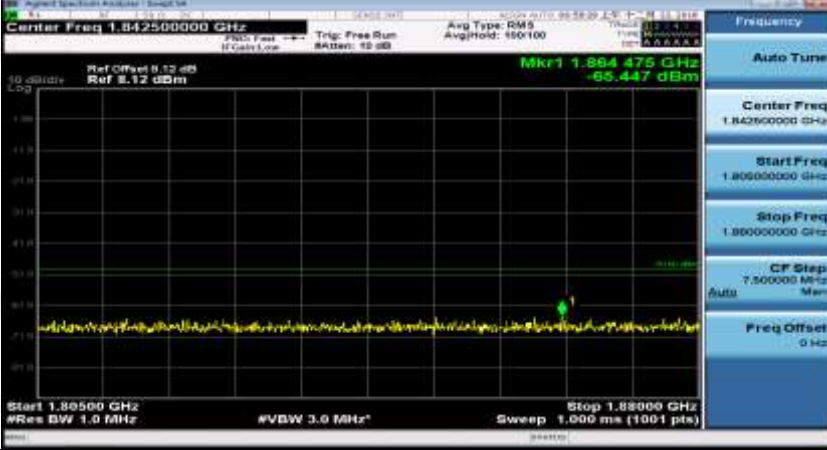
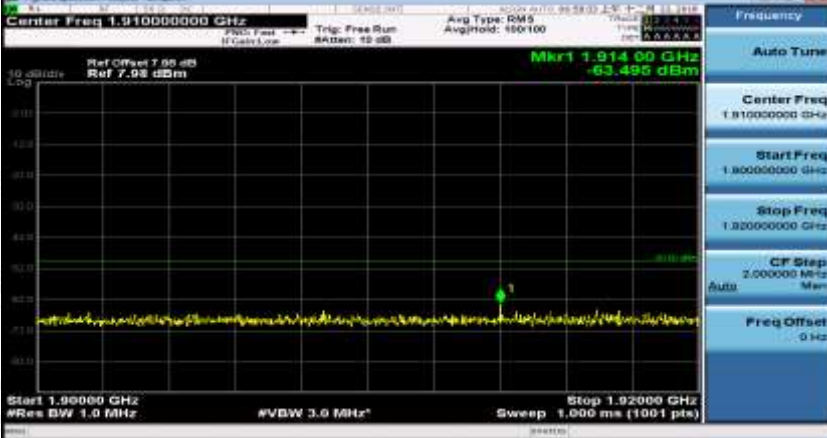
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General			
General			
General			

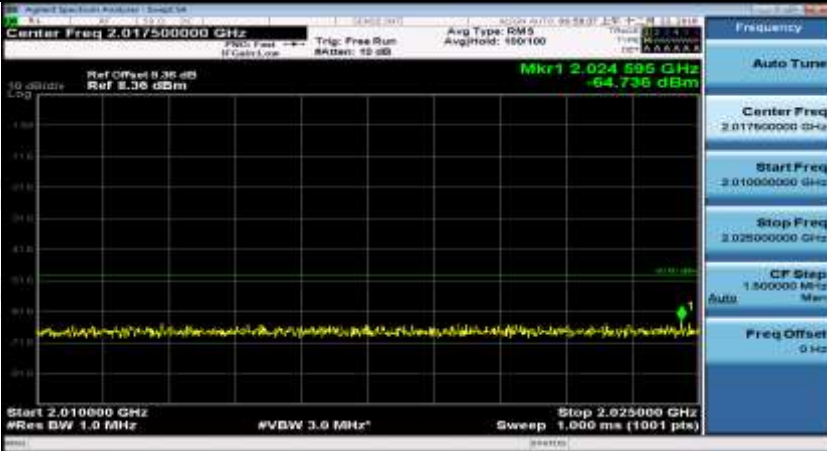
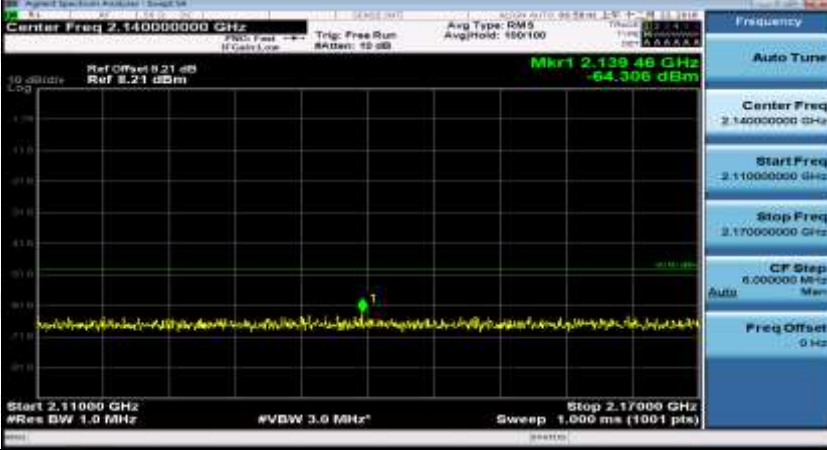
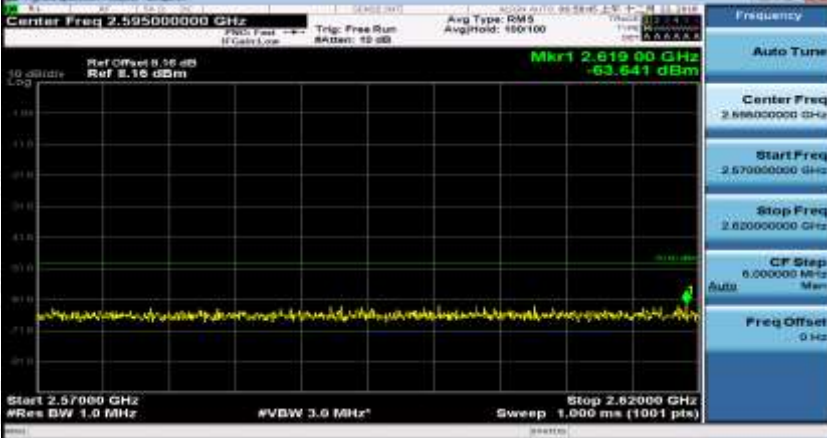
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General			
General			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

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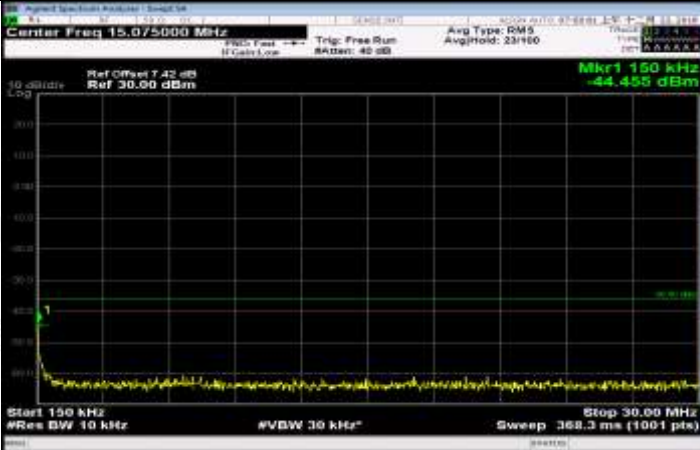
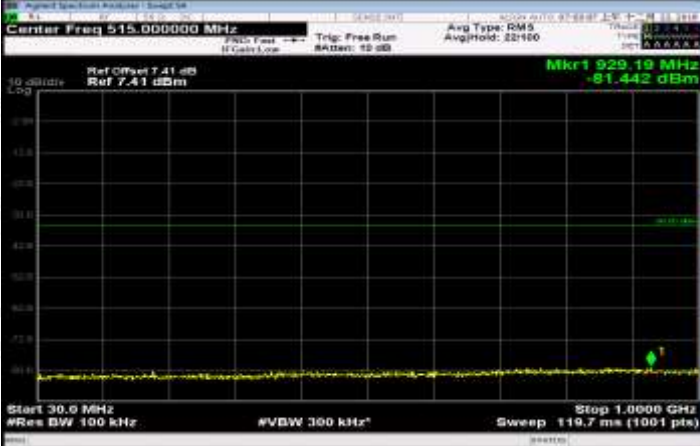
Co-existence	
Co-existence	
Co-existence	

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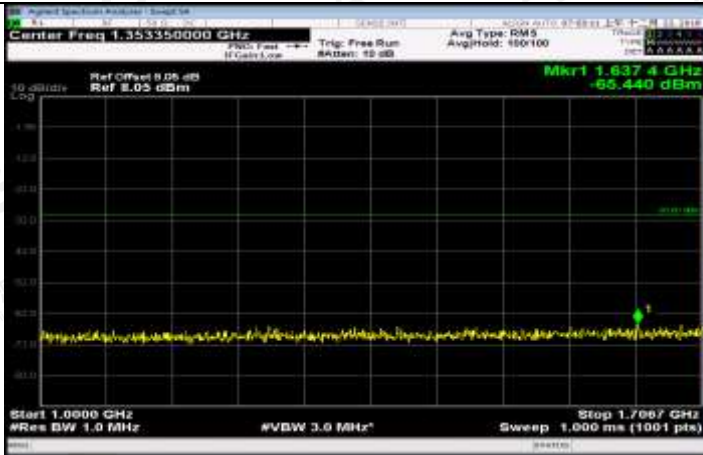


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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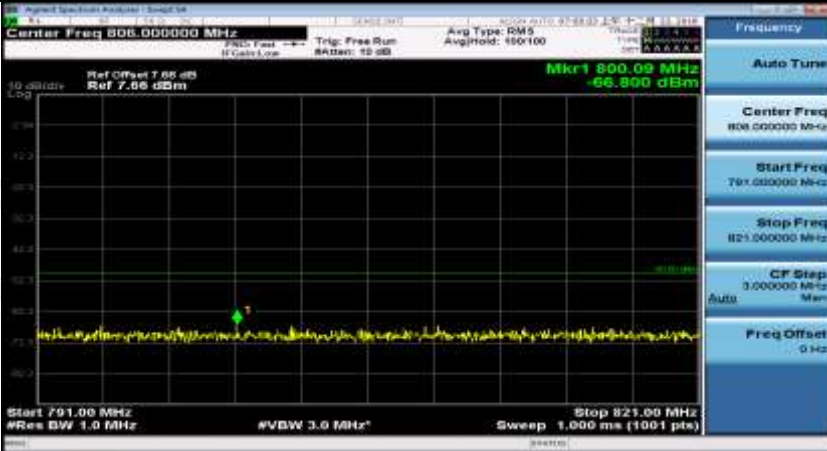
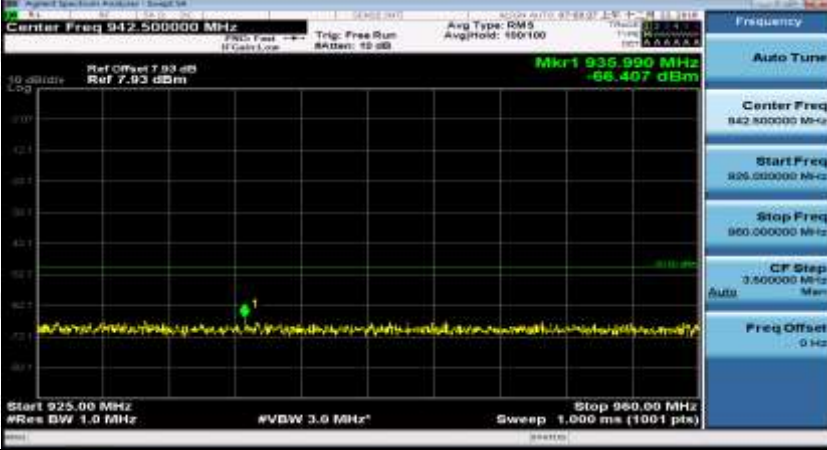
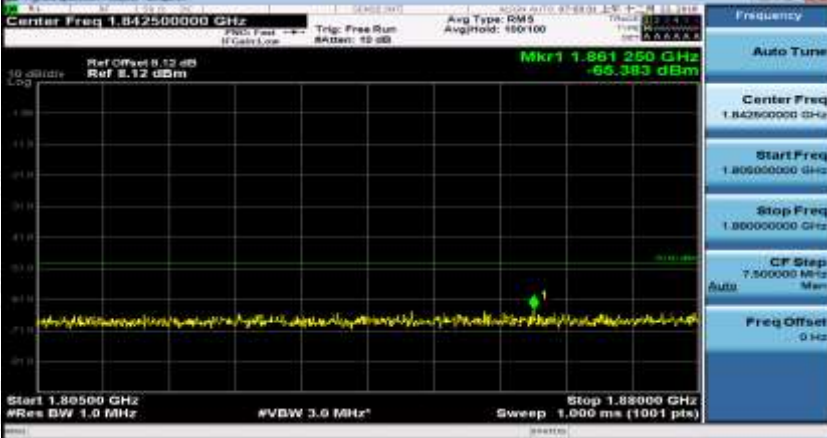
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullIRB#0

General	
General	
General	

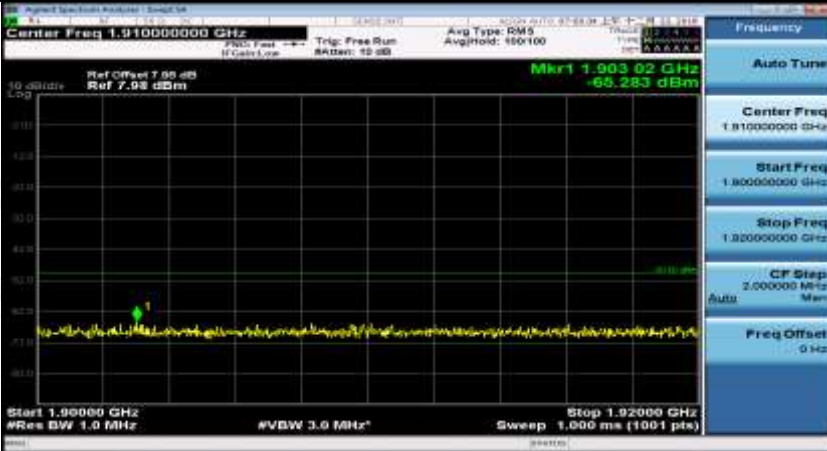
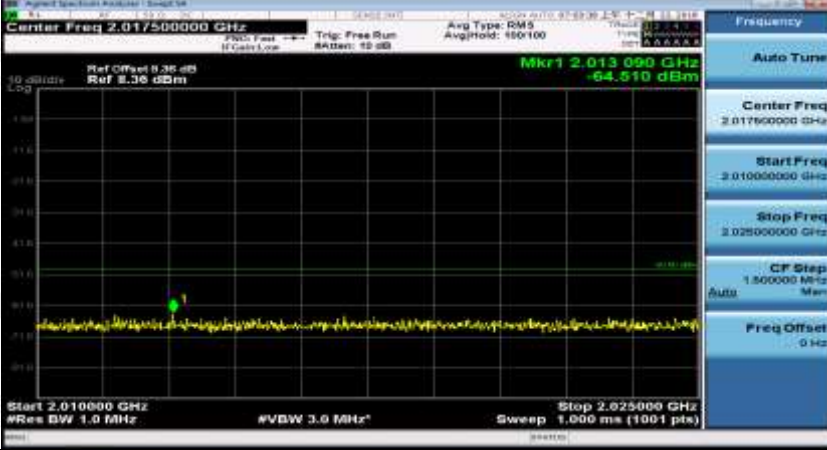
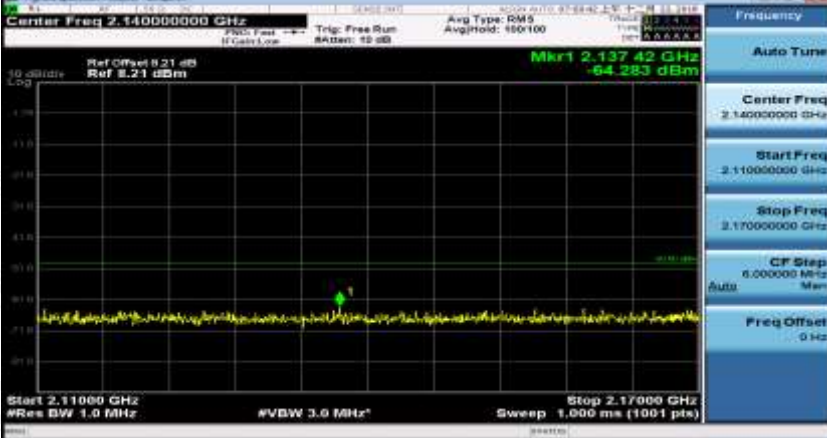
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.353350000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.706700000 GHz</p> <p>CF Step 70.670000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.357350000 GHz</p> <p>Start Freq 1.714700000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 320.530000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>

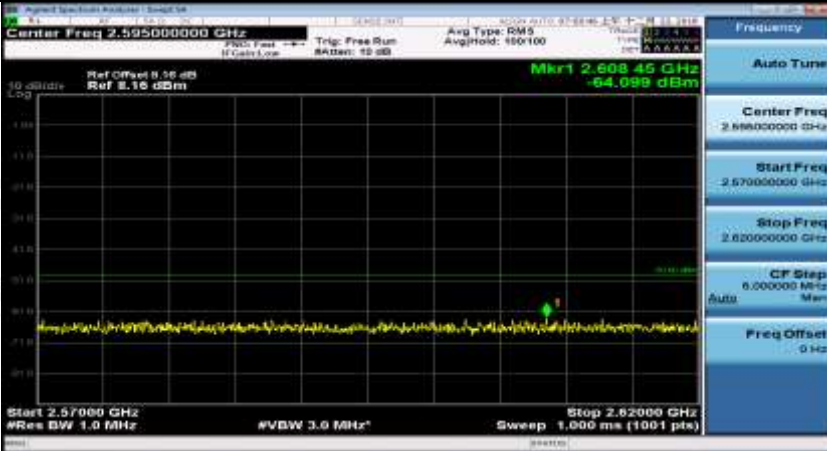
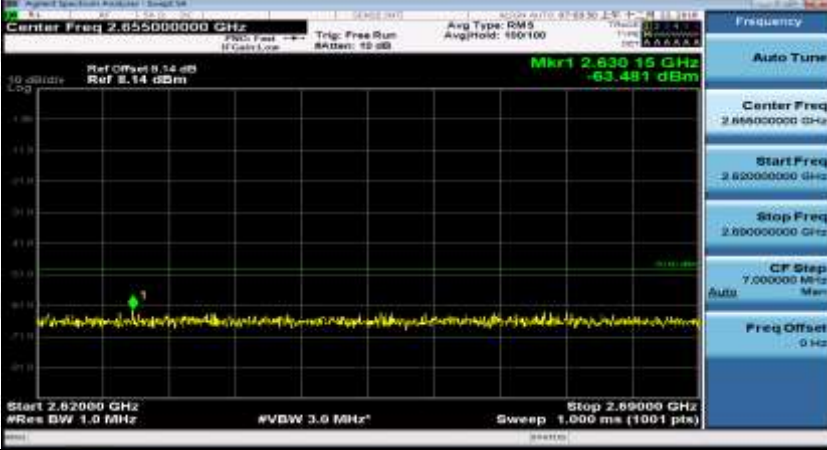
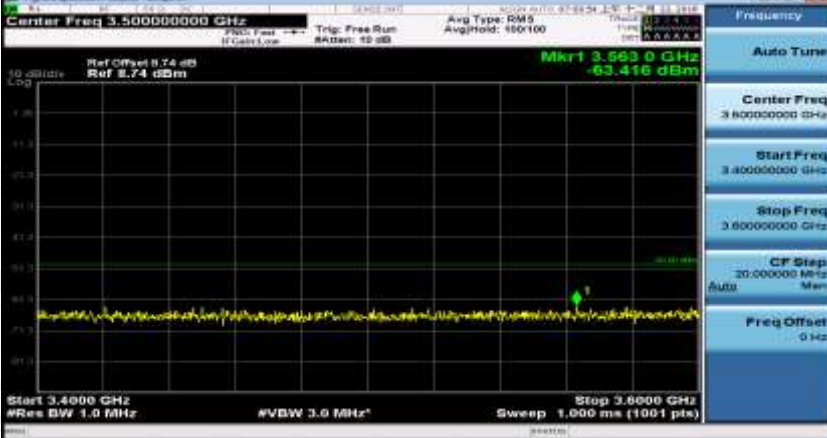
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Co-existence	
Co-existence	
Co-existence	

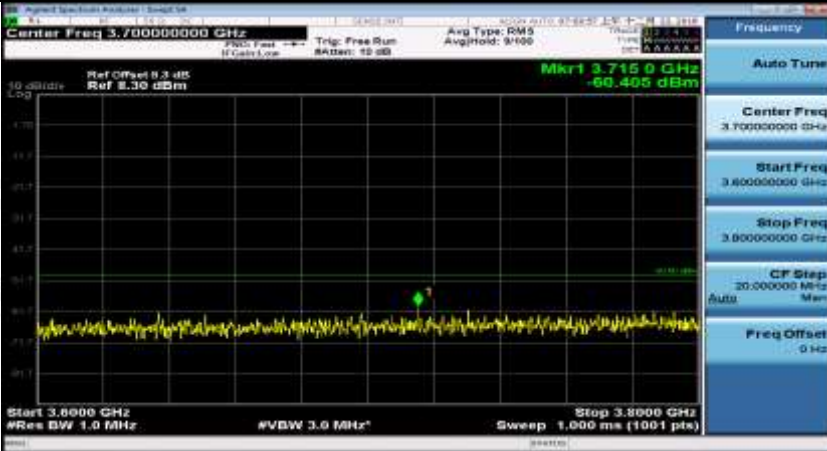
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
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Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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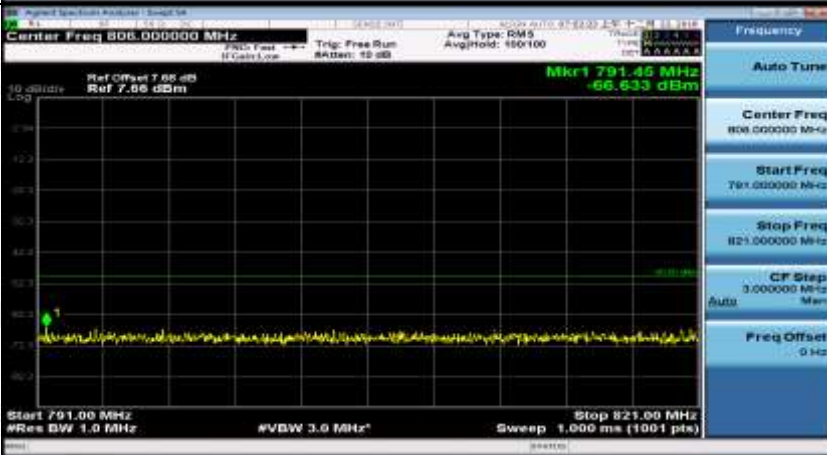
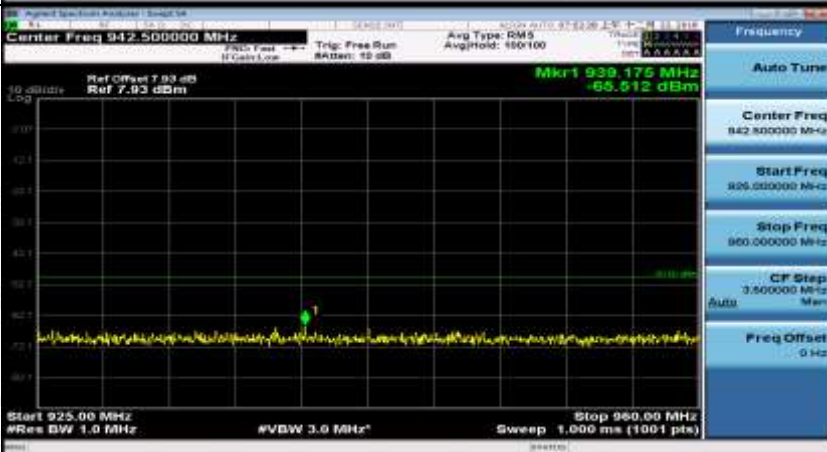
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#0	
General	
General	

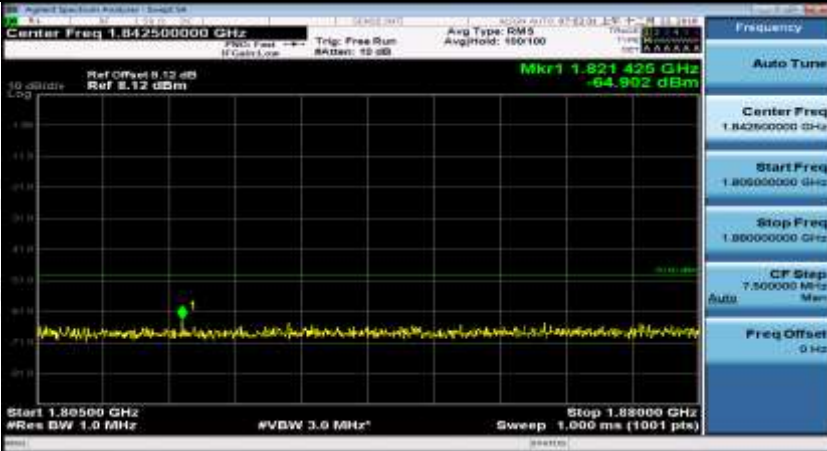
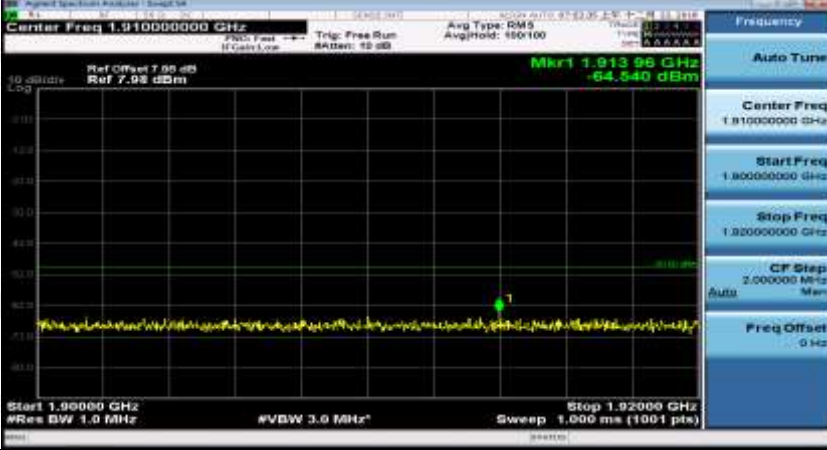

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General	
General	
General	

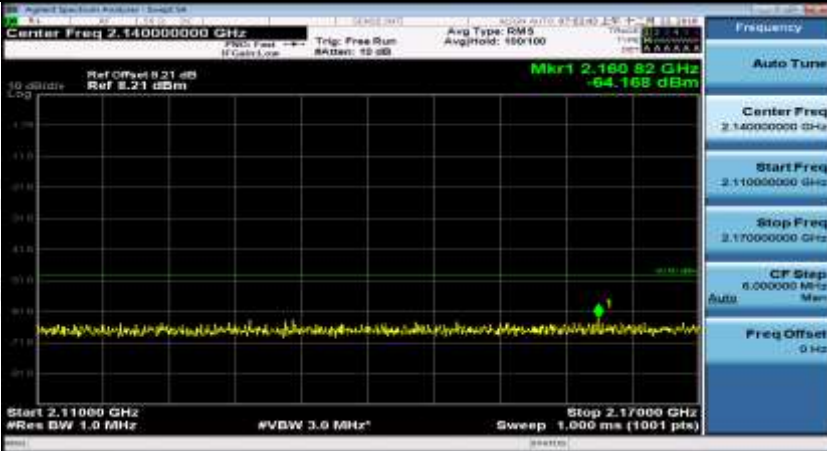
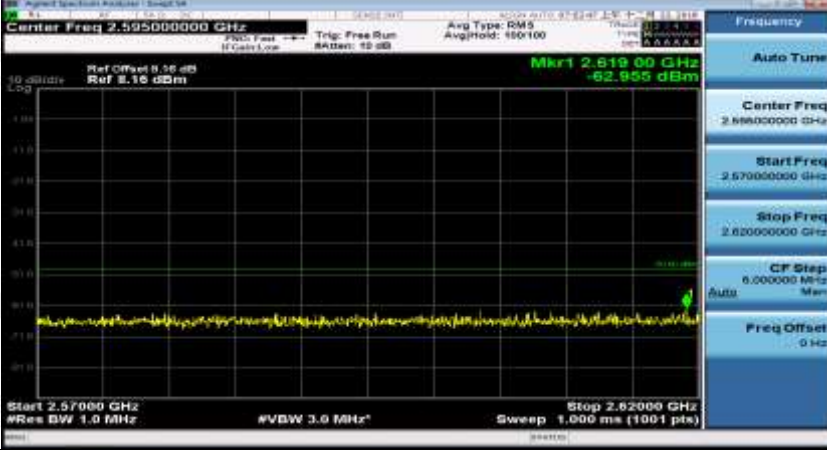
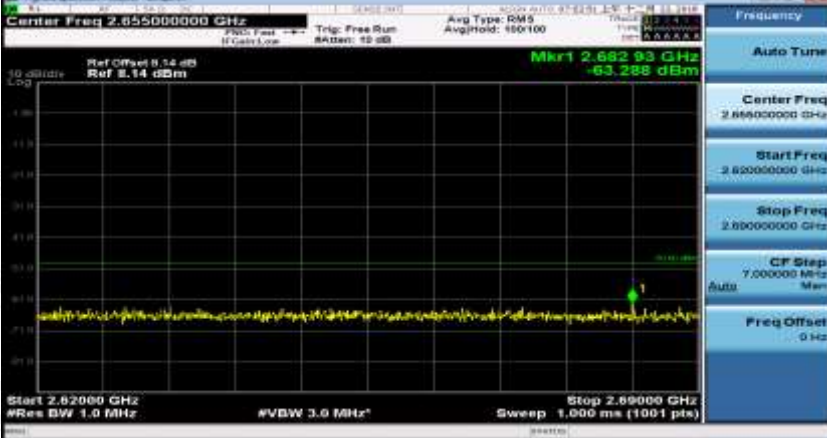
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General	
Co-existence	
Co-existence	


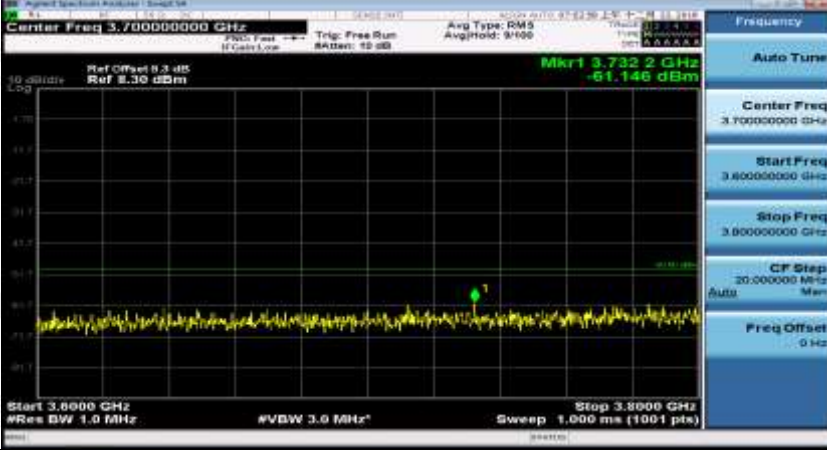
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

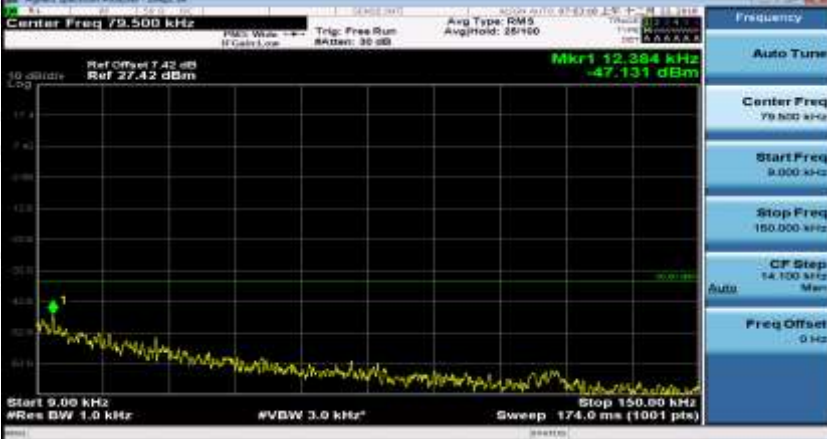
Co-existence	
Co-existence	
Co-existence	

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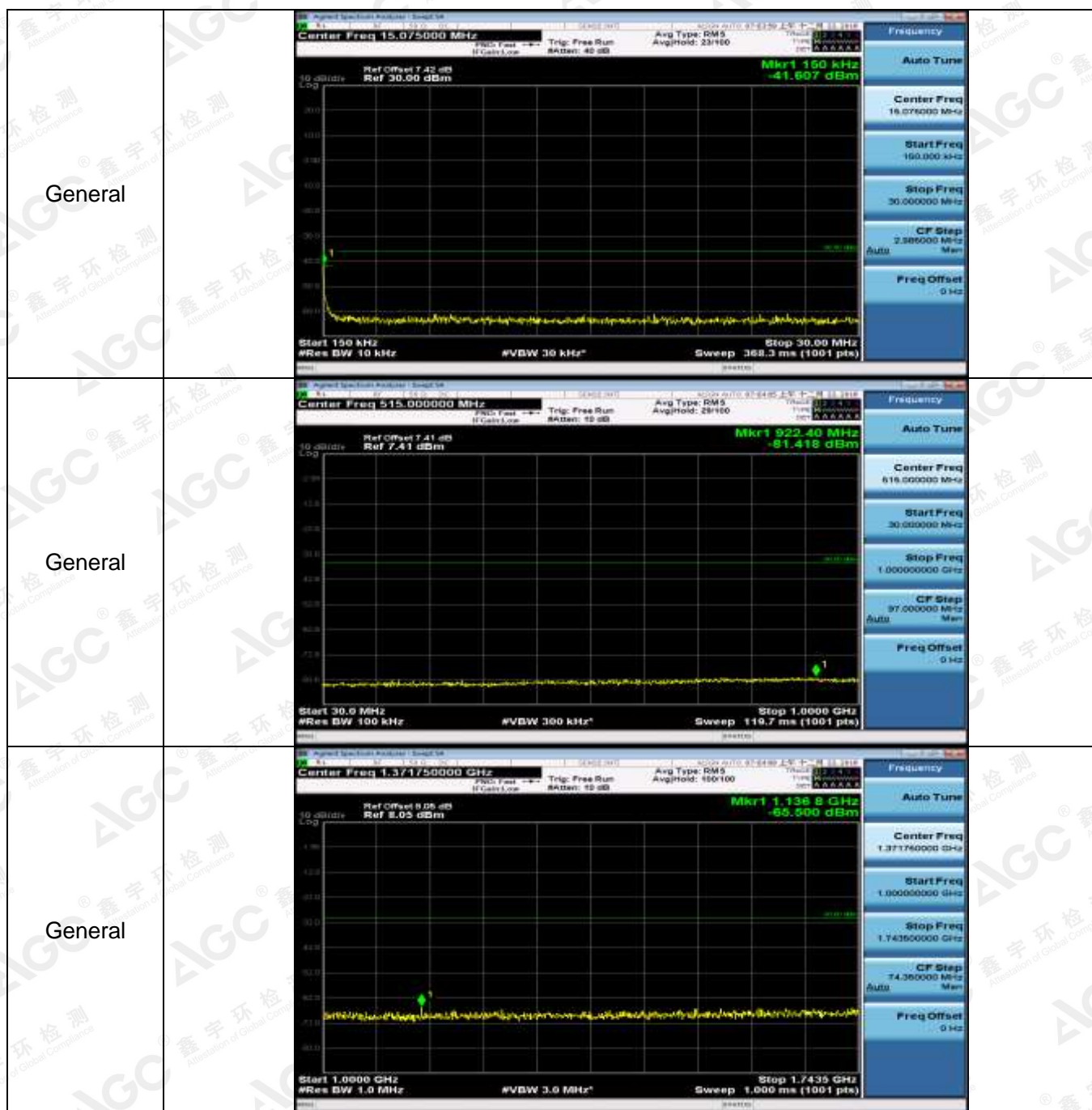
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#max	
General	

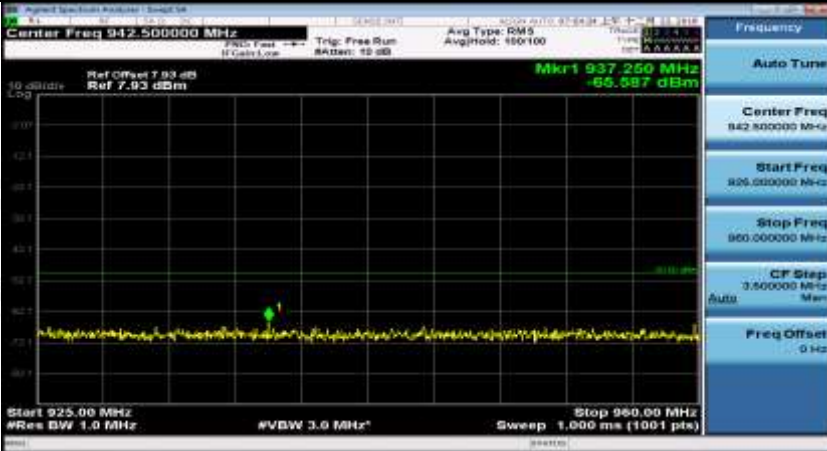
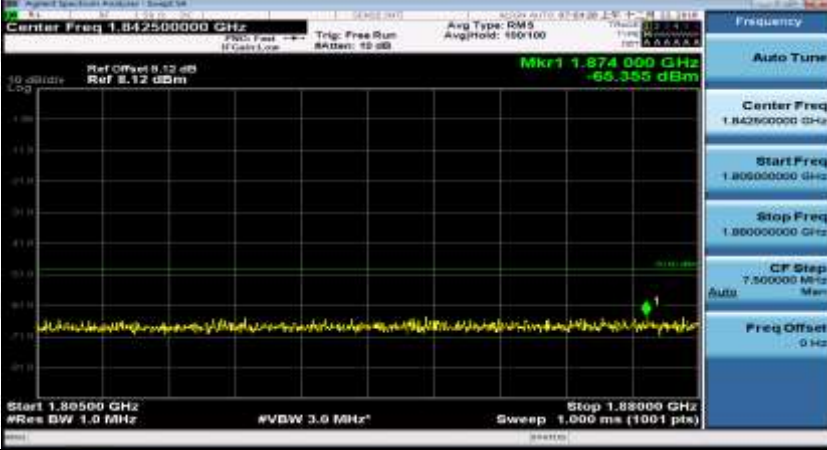
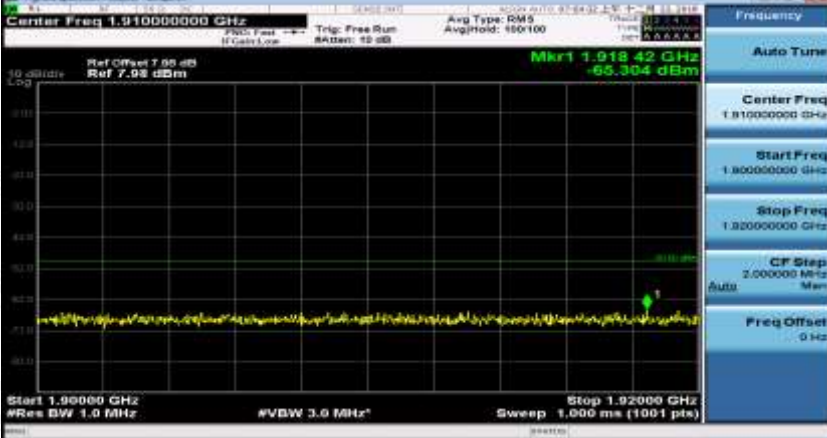
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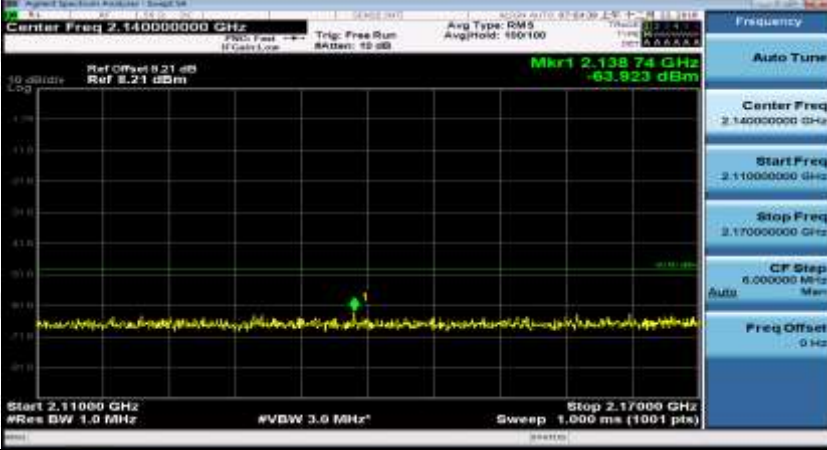
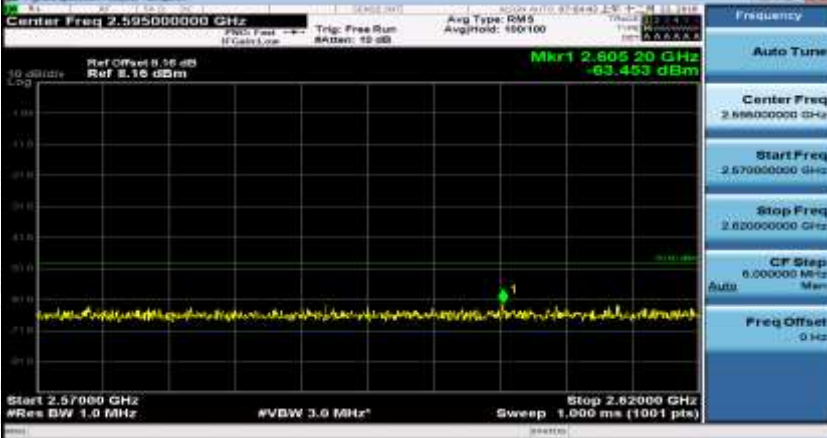
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General	
General	
Co-existence	


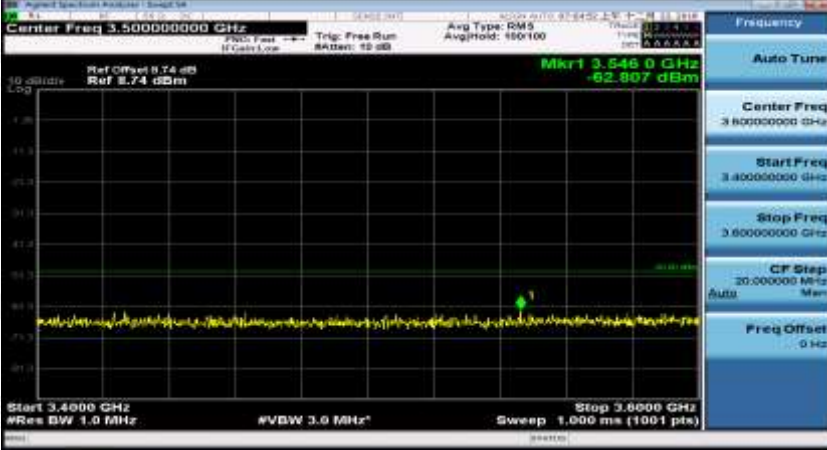
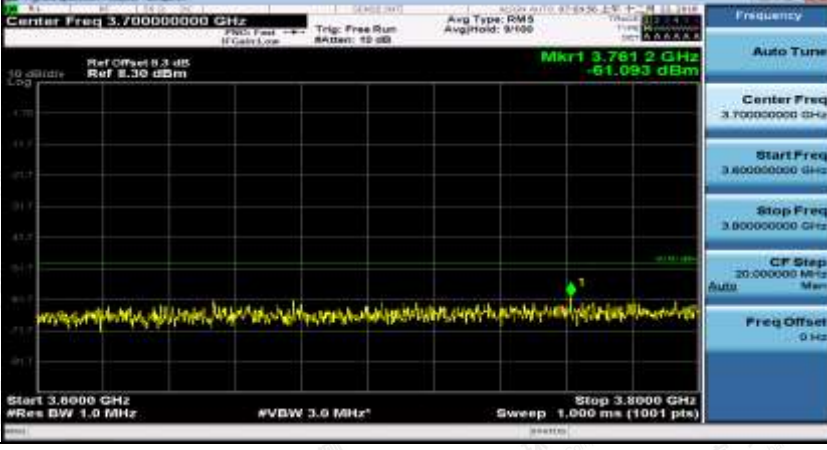
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Co-existence	
Co-existence	
Co-existence	

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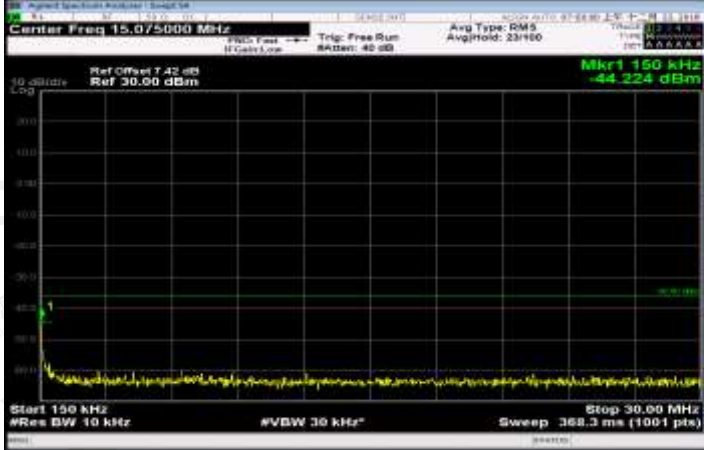
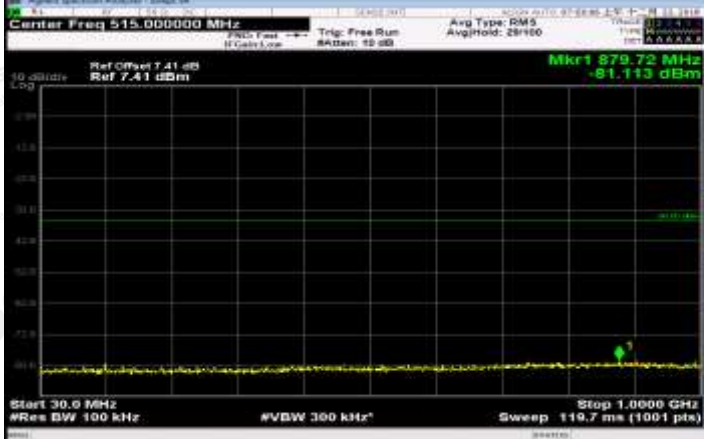
Co-existence	
Co-existence	
Co-existence	

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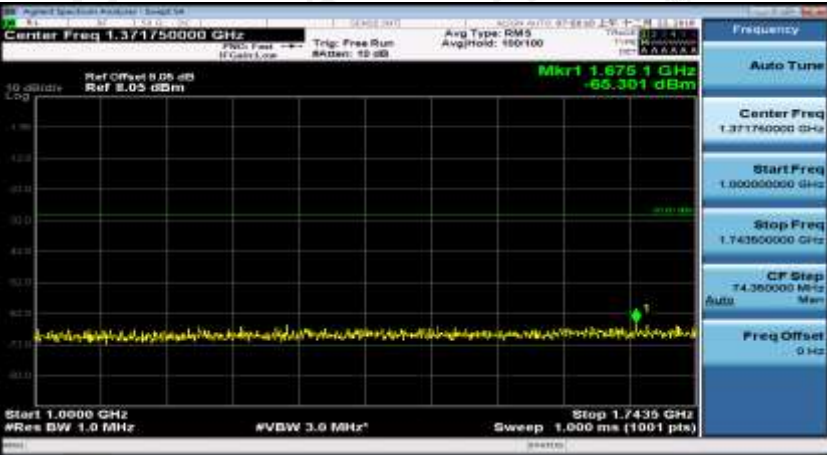
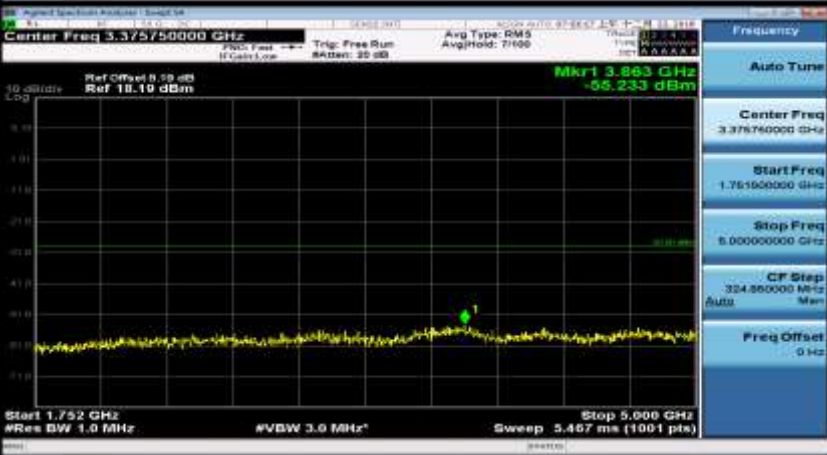

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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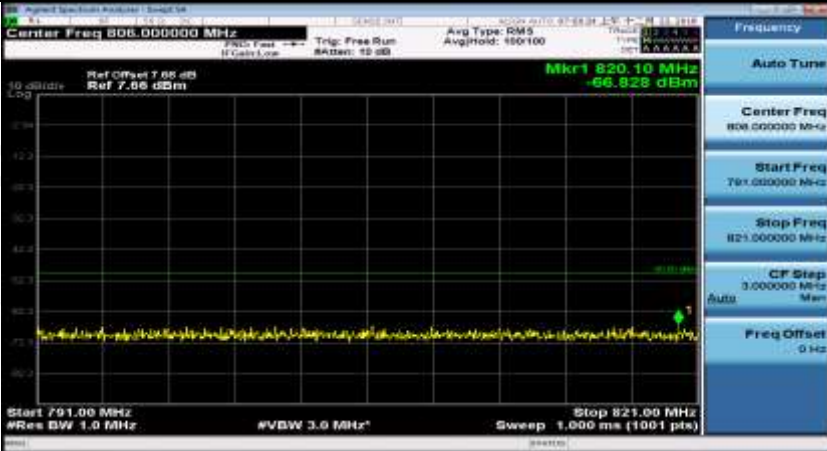
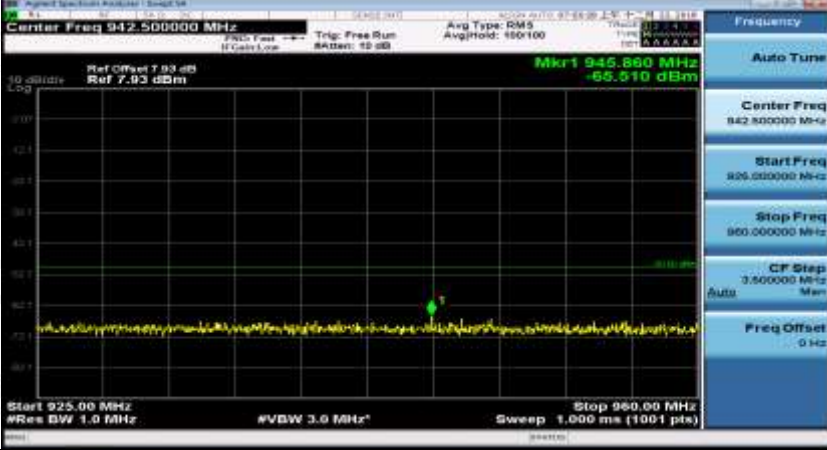
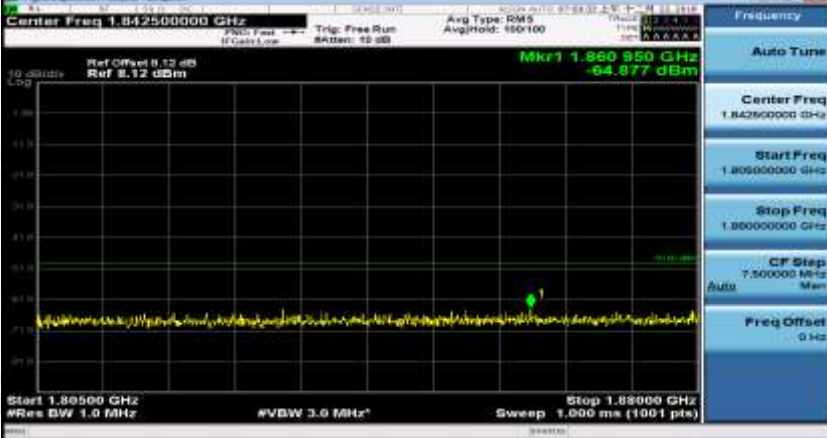
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0

General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 0.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.500000 MHz</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p>

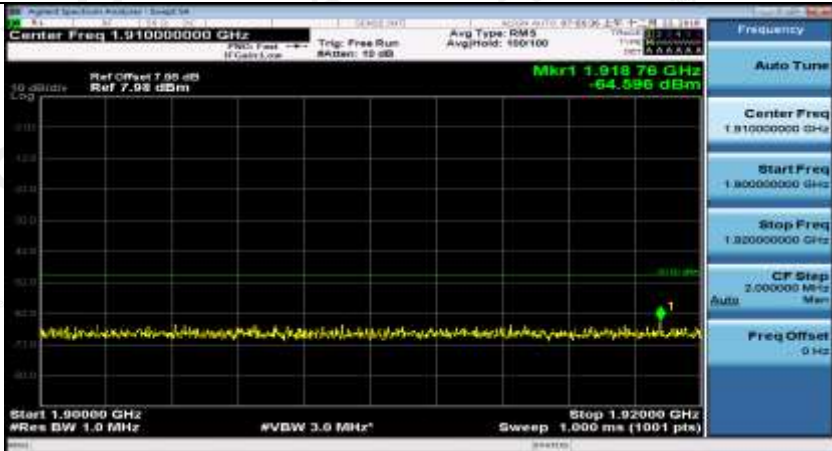

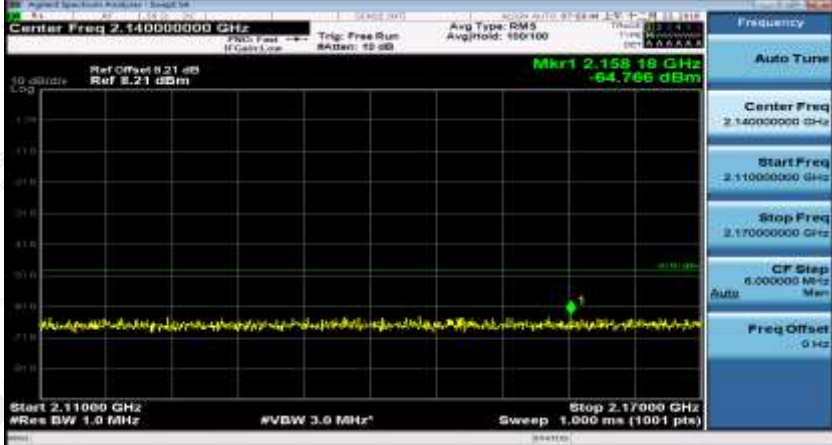
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General		
General		
General		




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Co-existence	
Co-existence	
Co-existence	

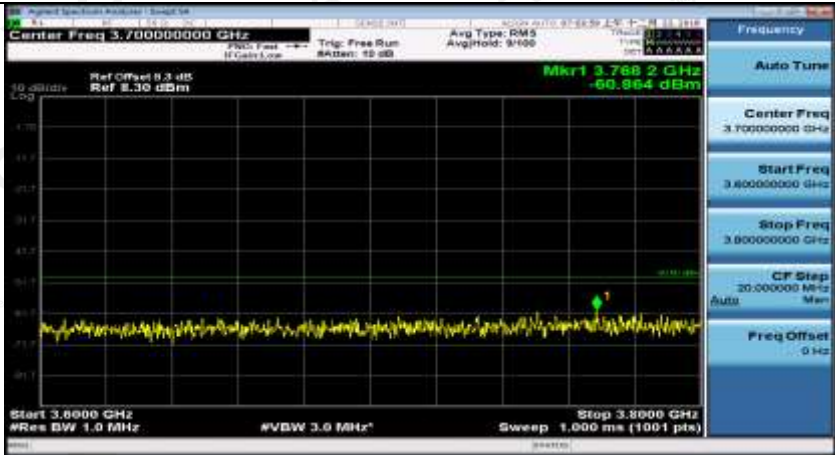
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Co-existence	
Co-existence	
Co-existence	

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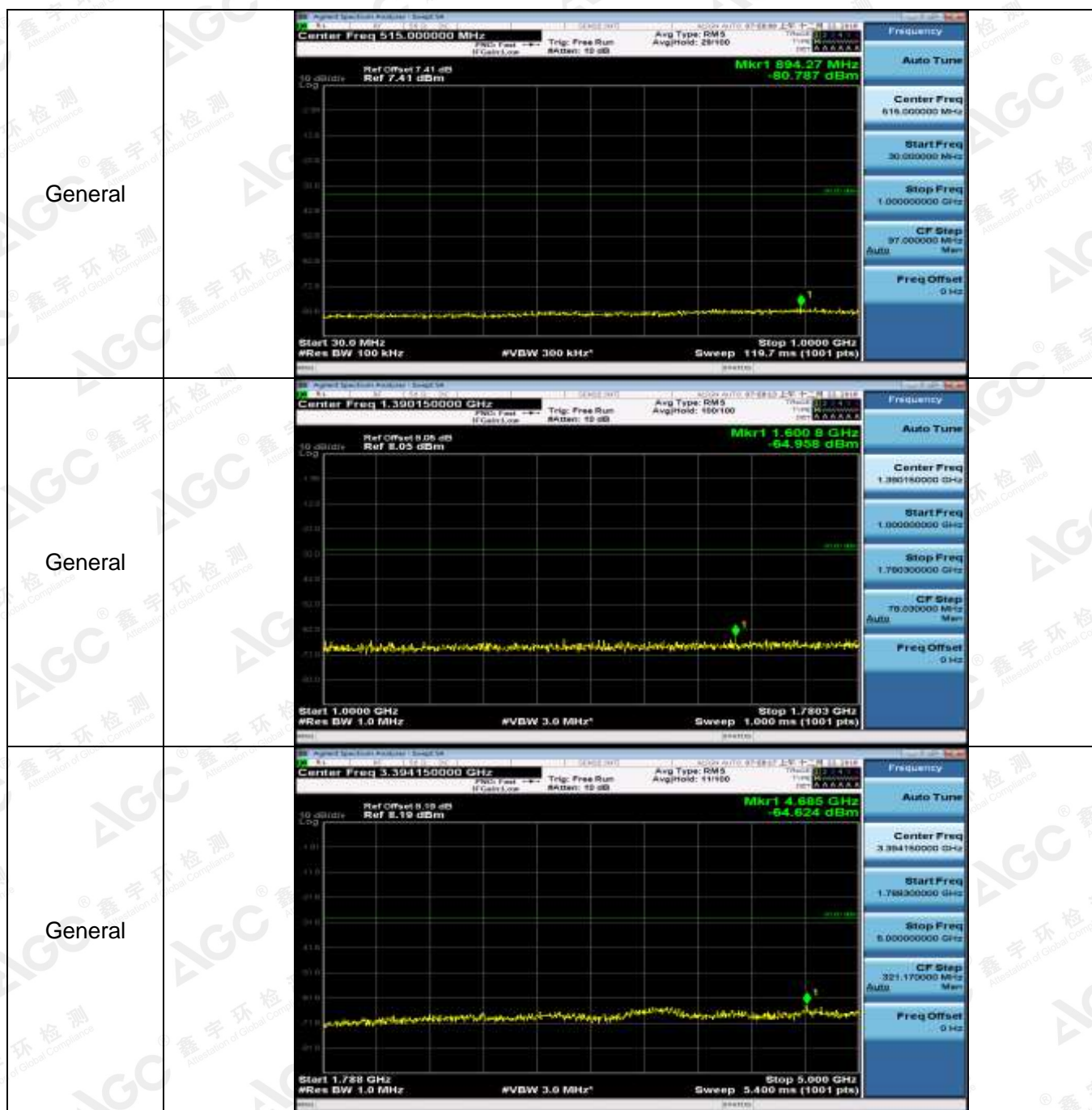
Co-existence	
Co-existence	
Co-existence	

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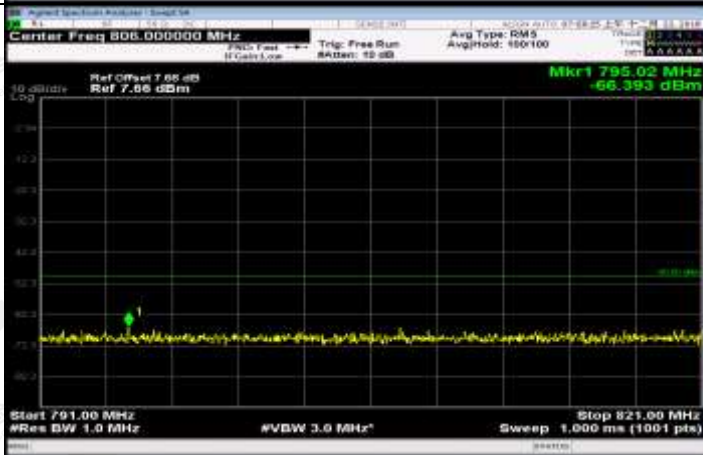
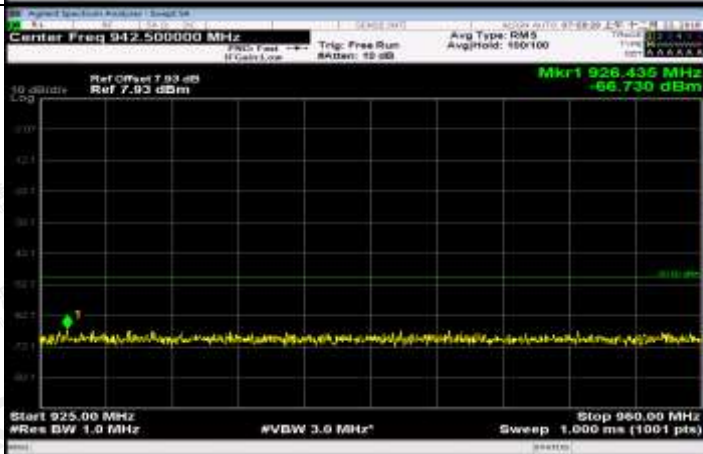
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#0	
General	
General	

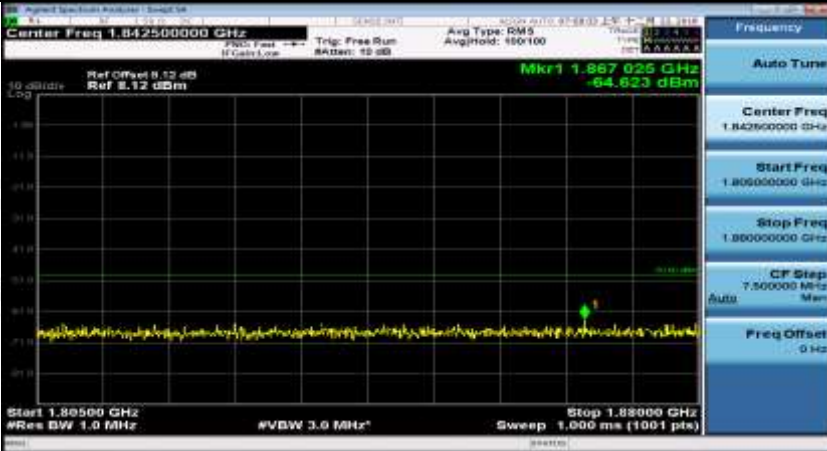
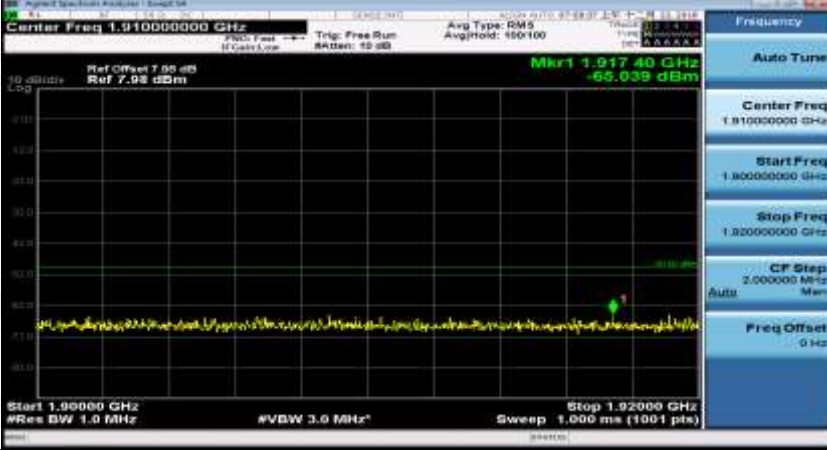

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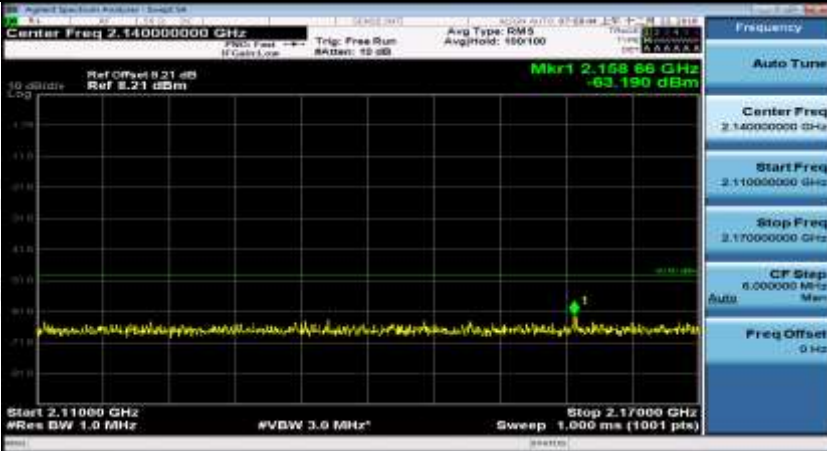
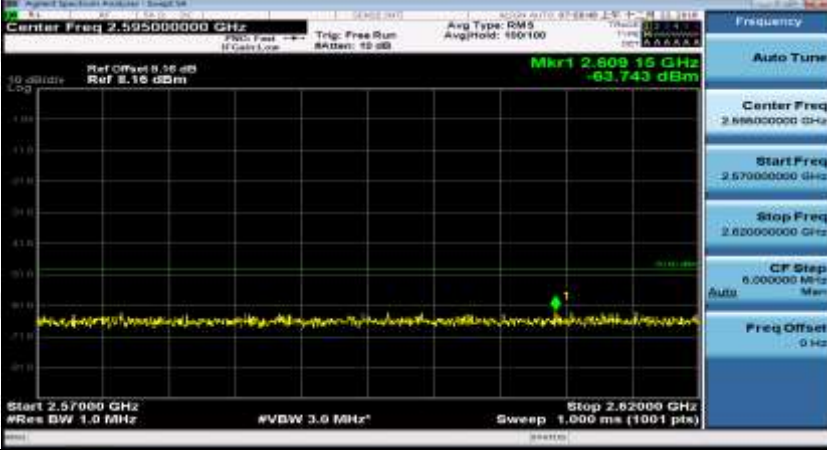
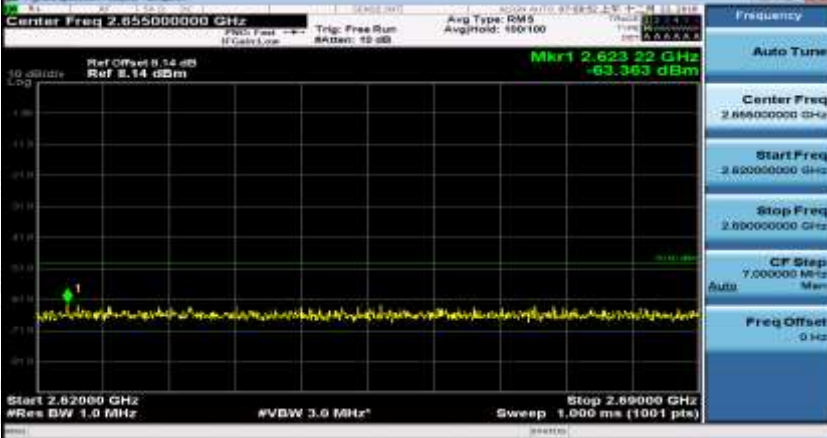
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General		 <p>Center Freq 8.87500000 GHz Ref Offset 8.38 dB Ref 8.38 dBm Mkr1 8.030 00 GHz -66.676 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 12.93 ms (1001 pts)</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 6.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		 <p>Center Freq 806.000000 MHz Ref Offset 7.55 dB Ref 7.55 dBm Mkr1 795.02 MHz -66.393 dBm Start 791.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		 <p>Center Freq 942.500000 MHz Ref Offset 7.93 dB Ref 7.93 dBm Mkr1 926.436 MHz -66.730 dBm Start 925.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 925.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.500000 MHz</p> <p>Freq Offset 0 Hz</p>

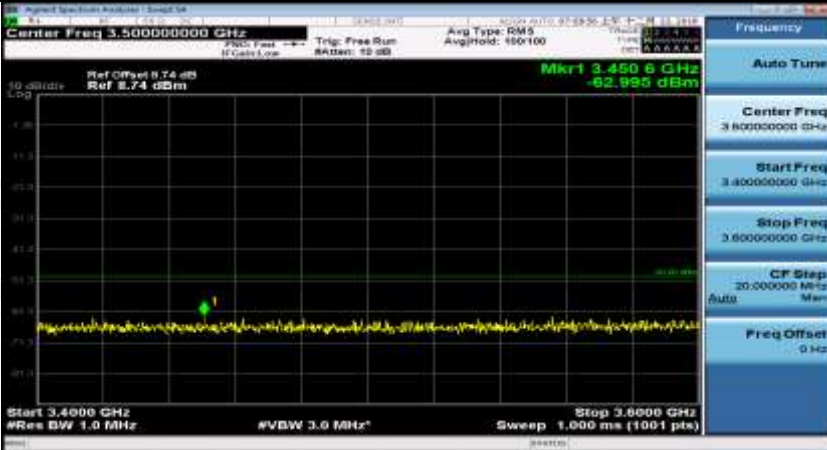
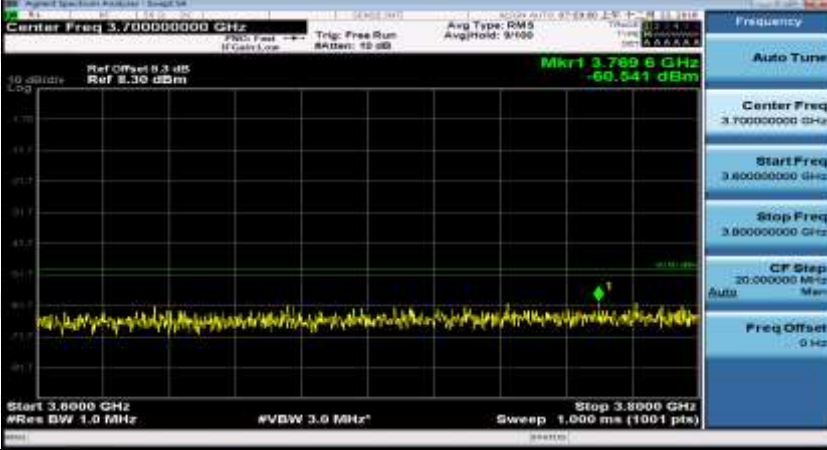
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Co-existence	
Co-existence	
Co-existence	

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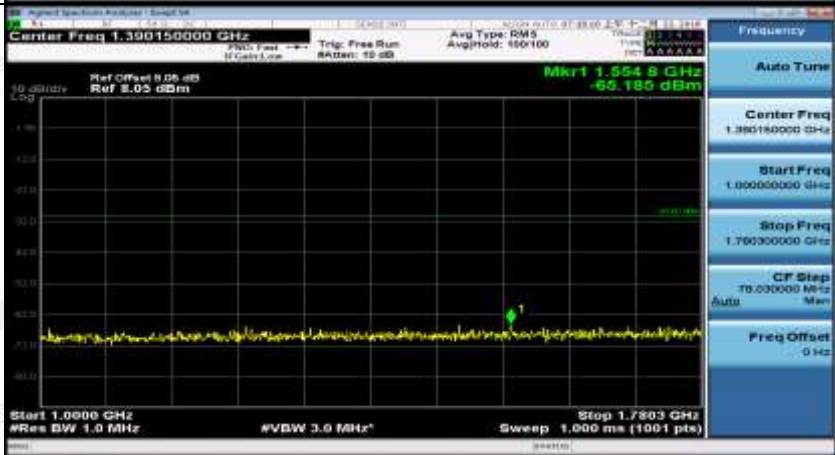

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#max	
General	

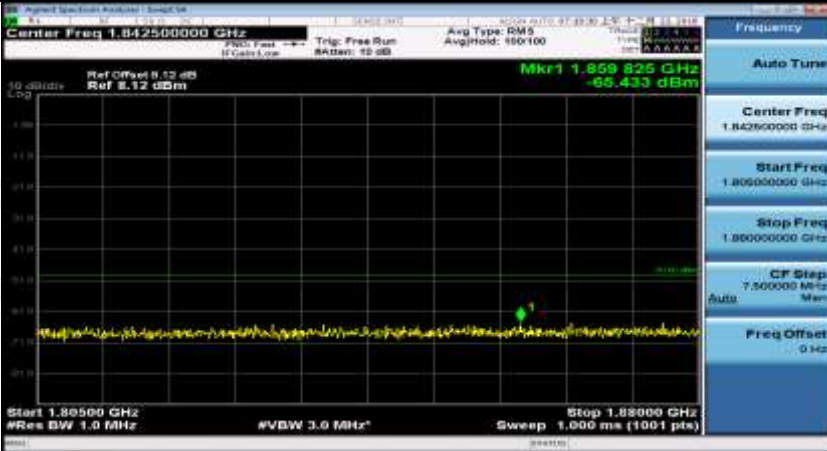
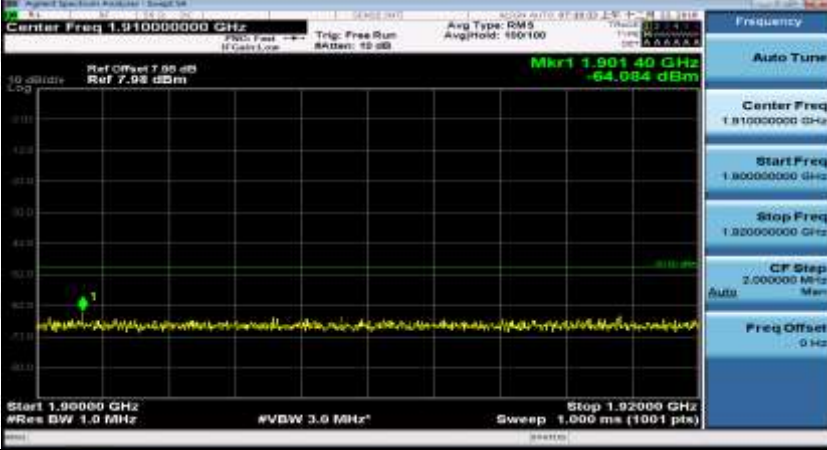
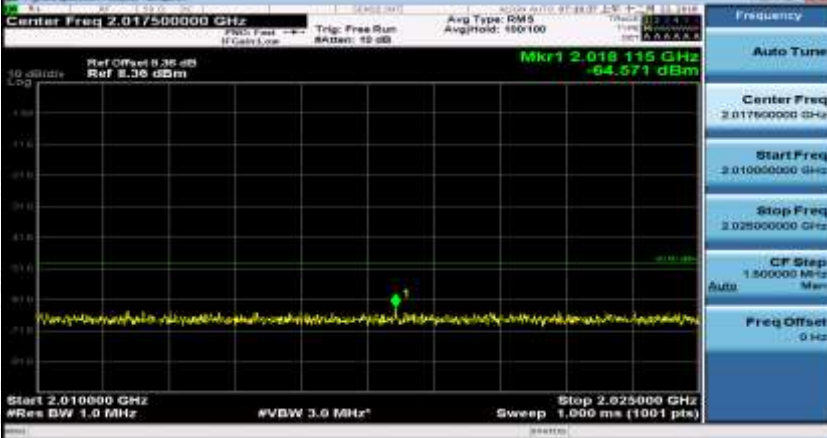
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General			
General			
General			

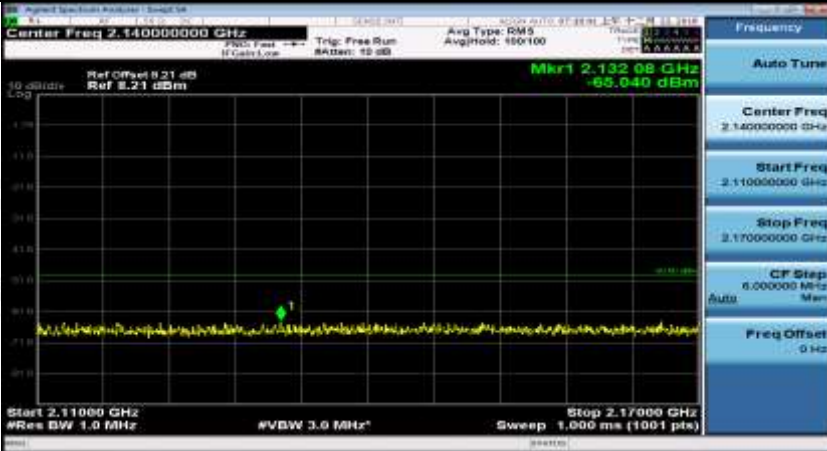
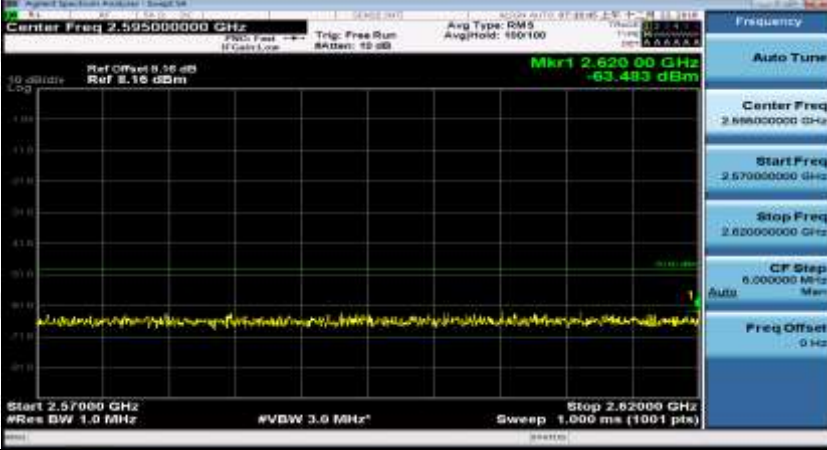
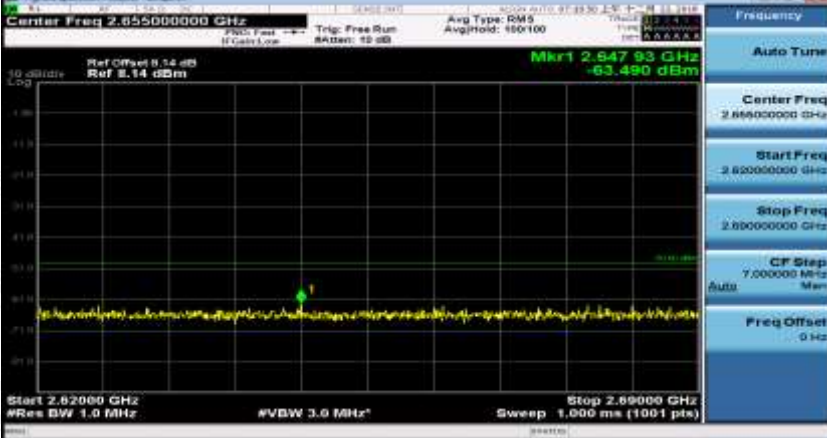
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 6.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 926.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.500000 MHz</p> <p>Freq Offset 0 Hz</p>

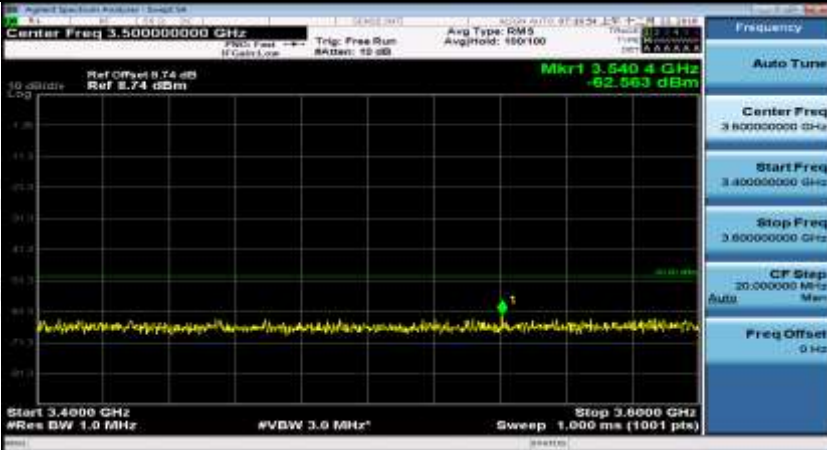
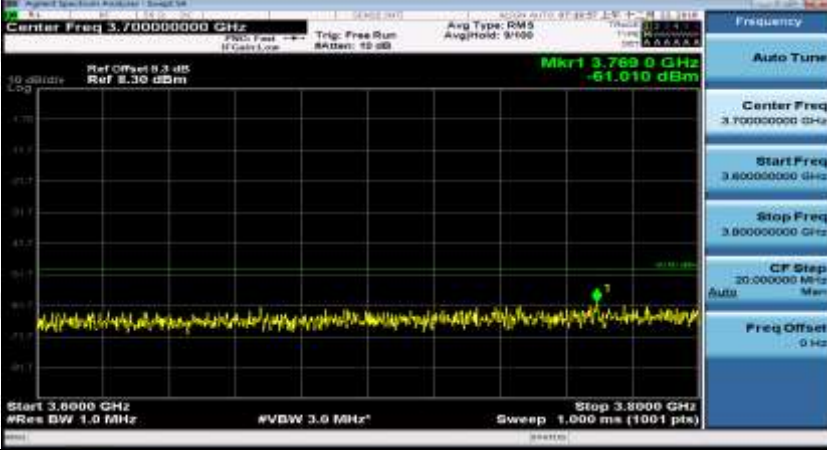
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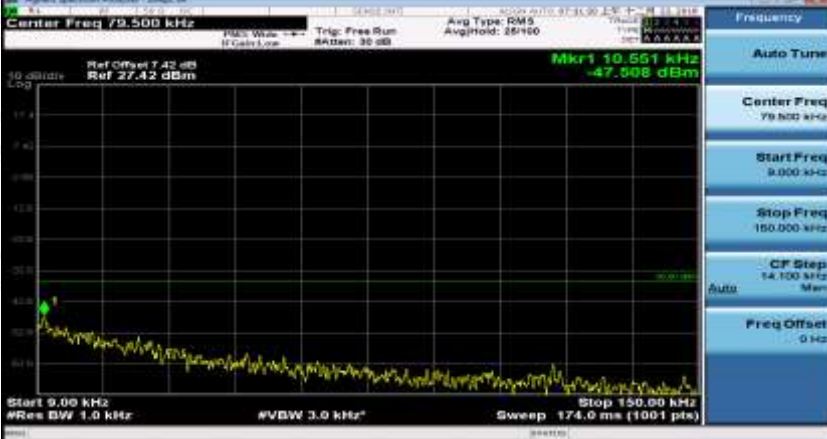
Co-existence	
Co-existence	
Co-existence	

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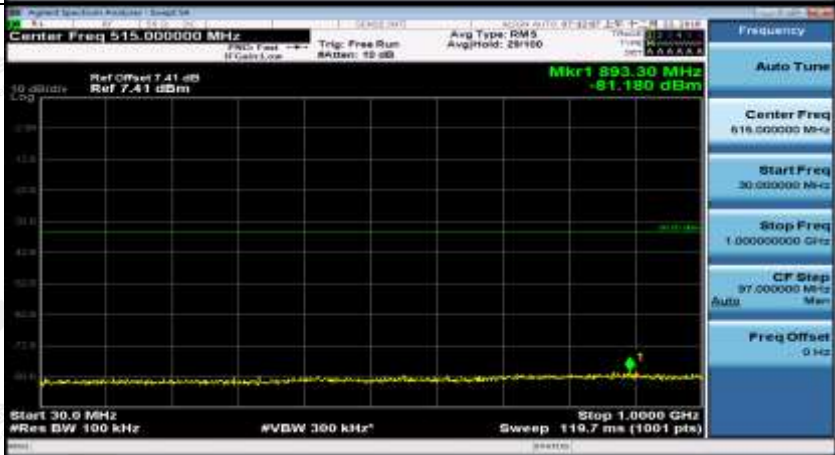
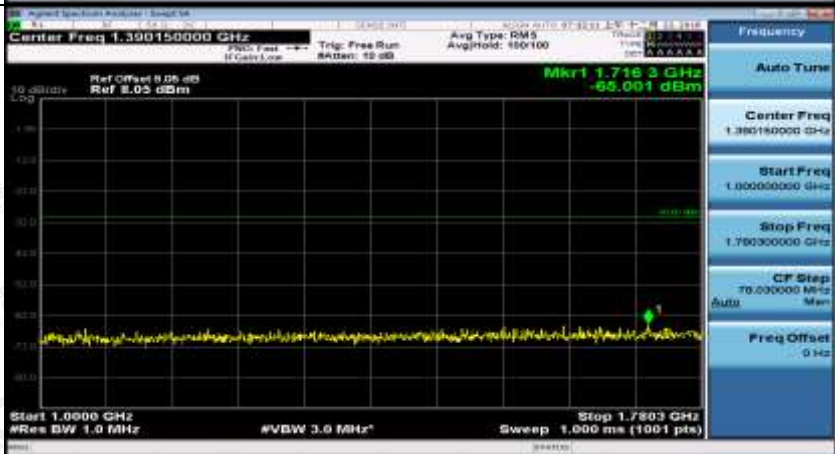
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullIRB#0	
General	

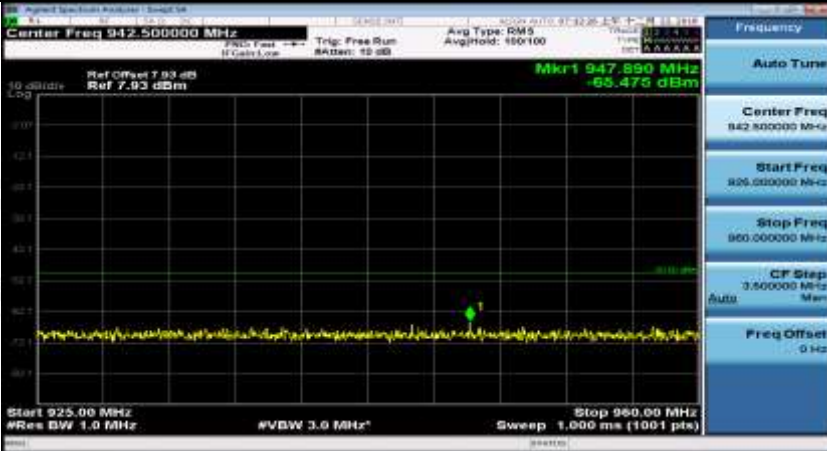
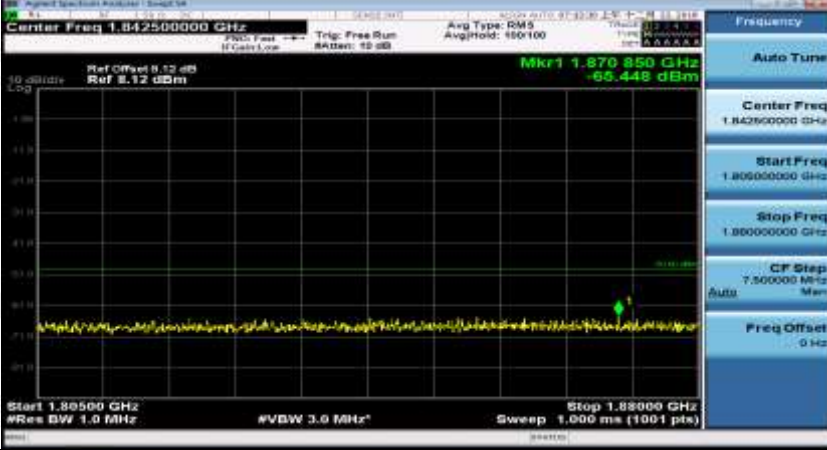
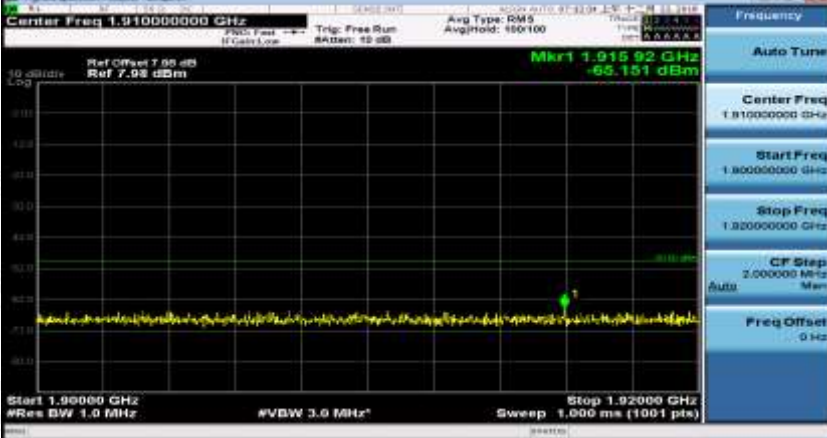
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General			
General			
General			

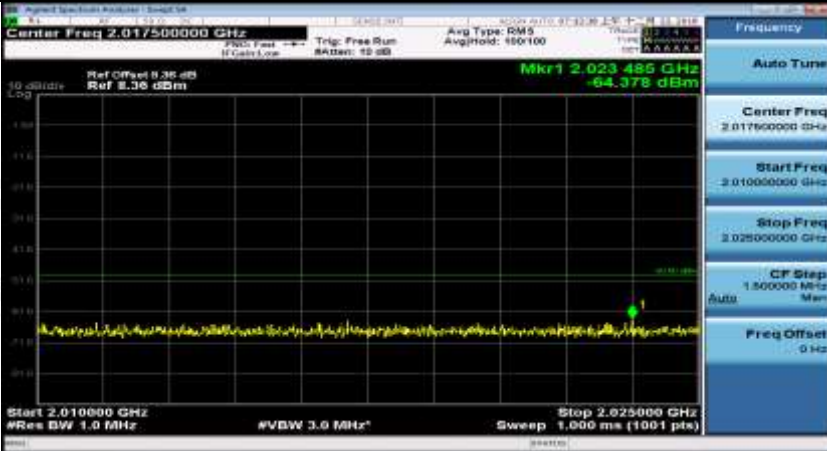
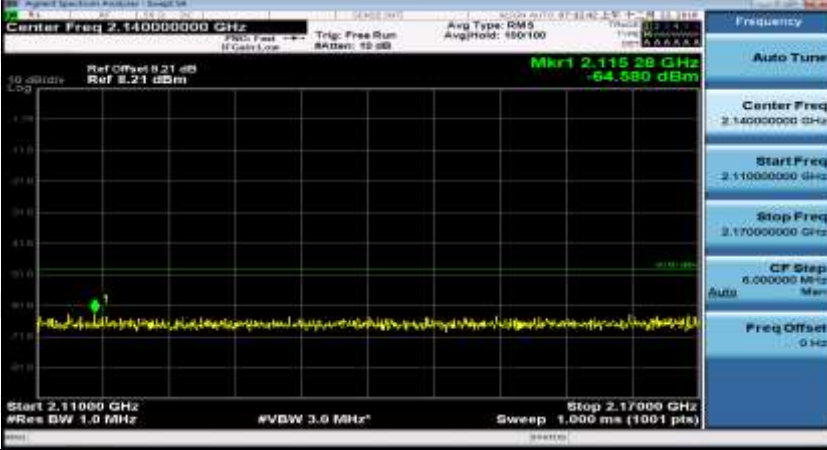
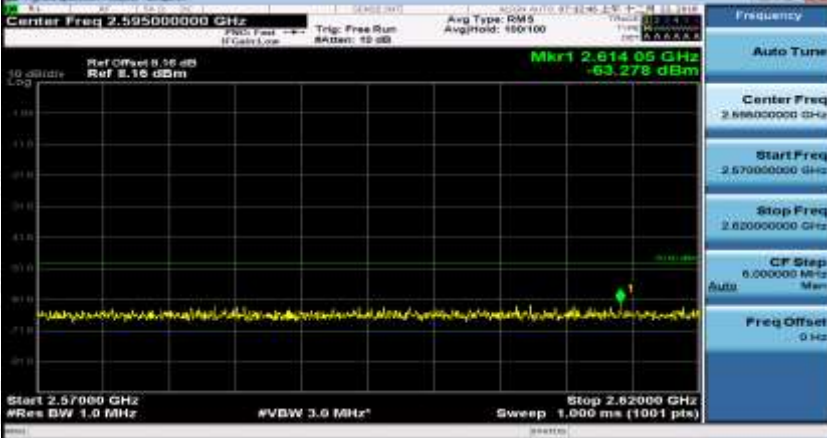
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.394150000 GHz</p> <p>Start Freq 1.728000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 321.1700000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.0000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.0000000 MHz</p> <p>Start Freq 781.0000000 MHz</p> <p>Stop Freq 821.0000000 MHz</p> <p>CF Step 3.0000000 MHz</p> <p>Freq Offset 0 Hz</p>

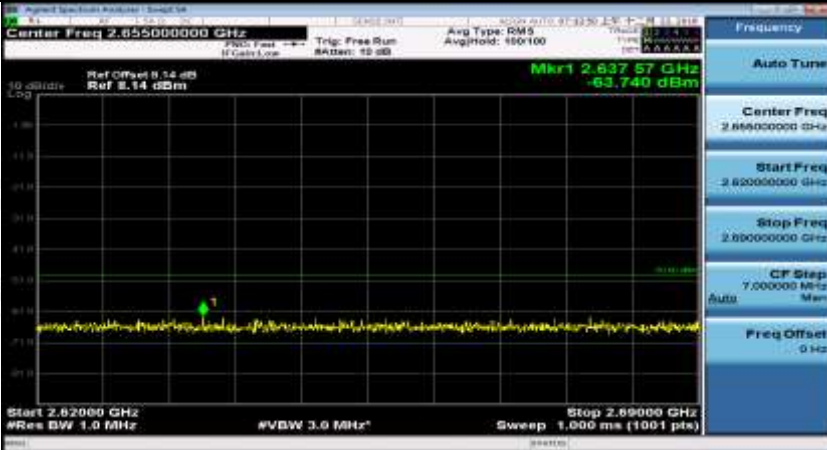
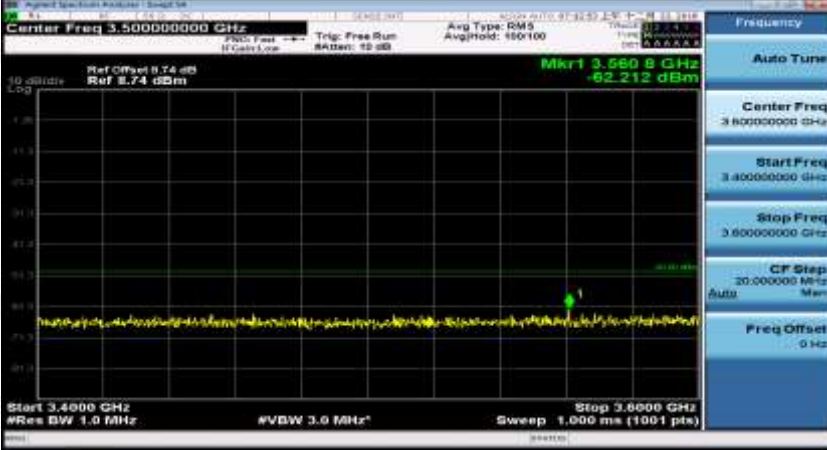
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Co-existence	
Co-existence	
Co-existence	

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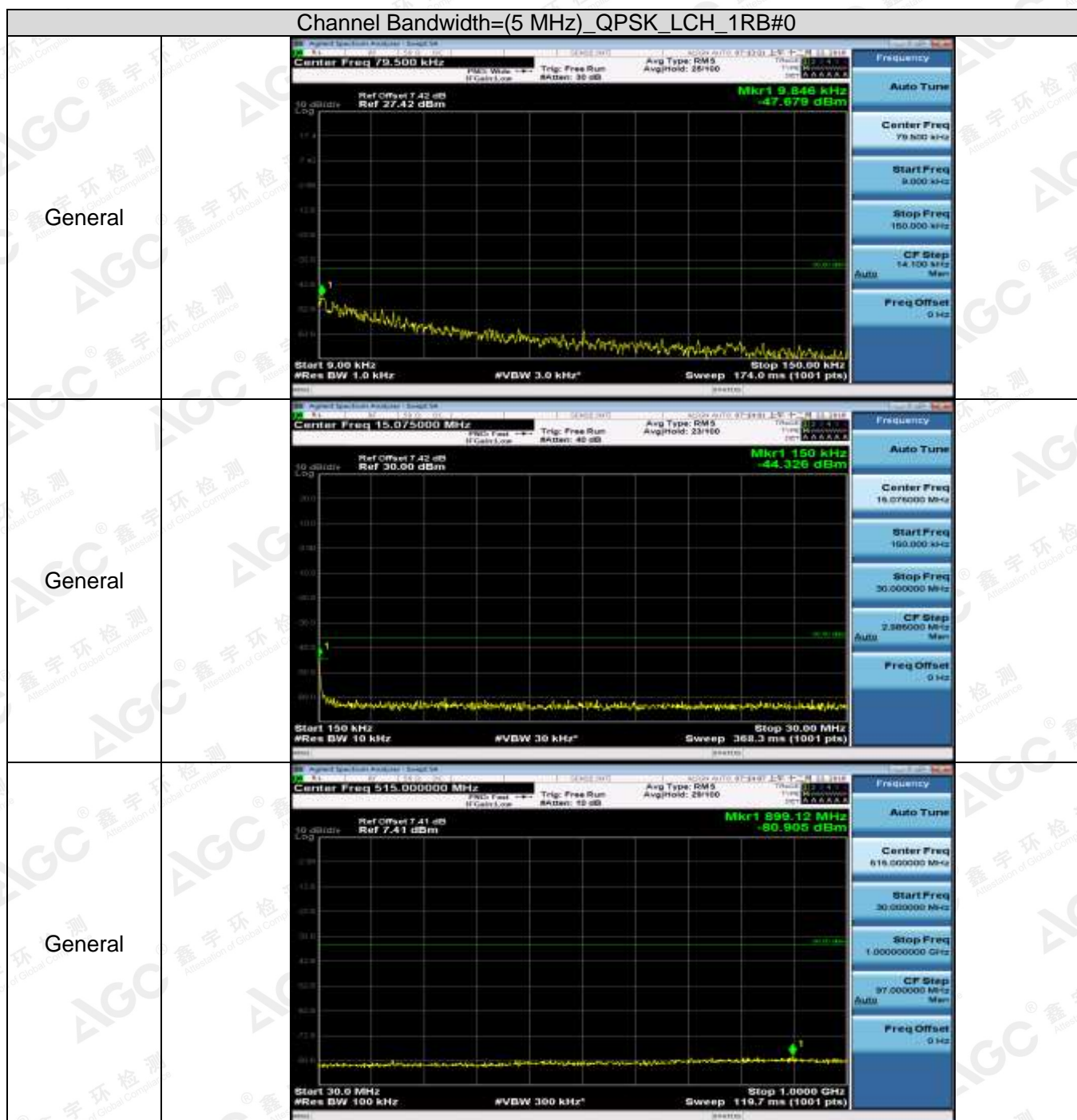
Co-existence	
Co-existence	
Co-existence	

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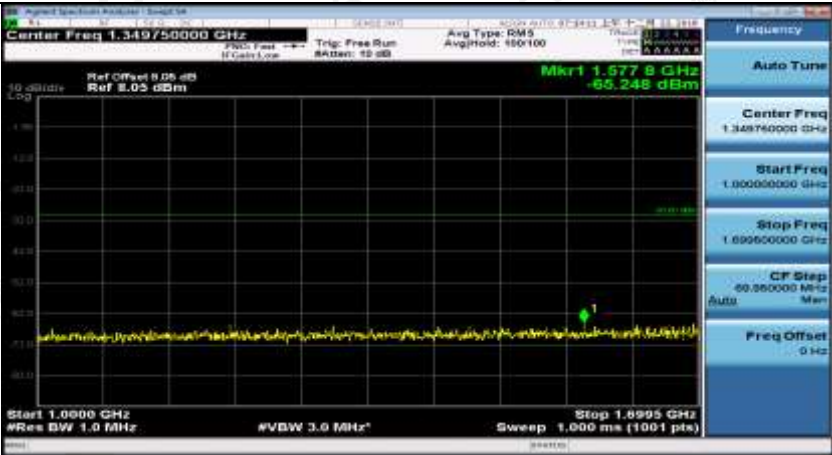
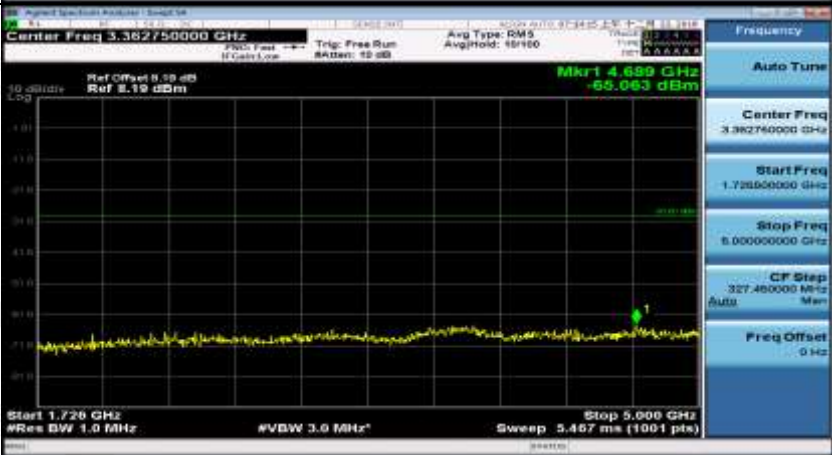

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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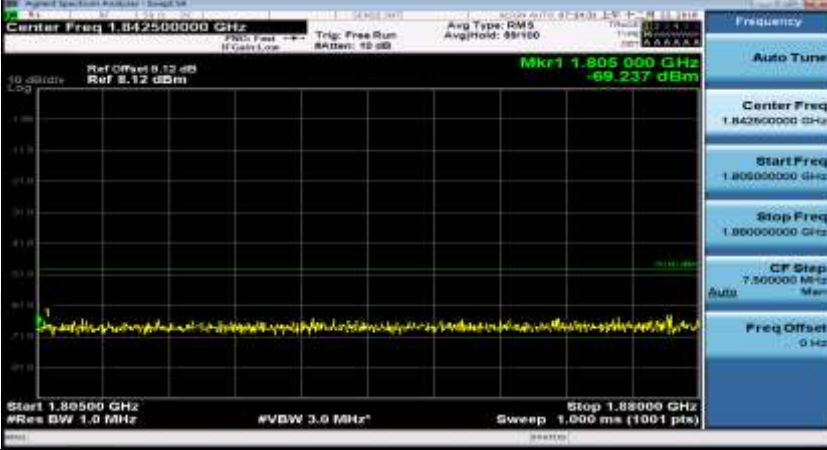
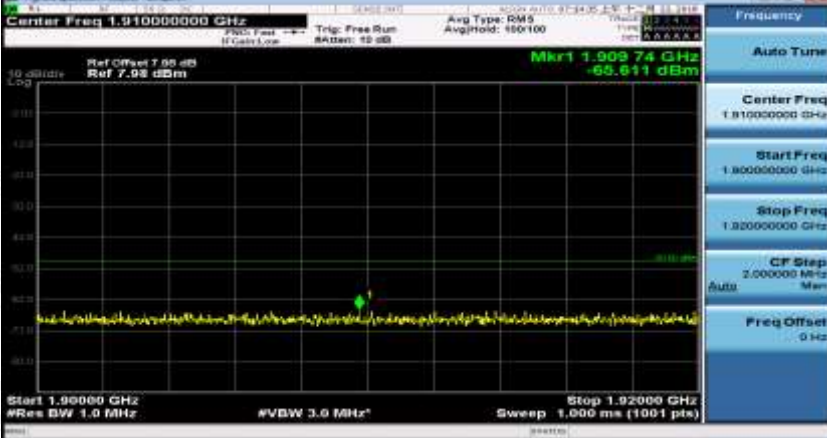
Channel Bandwidth=(5 MHz)



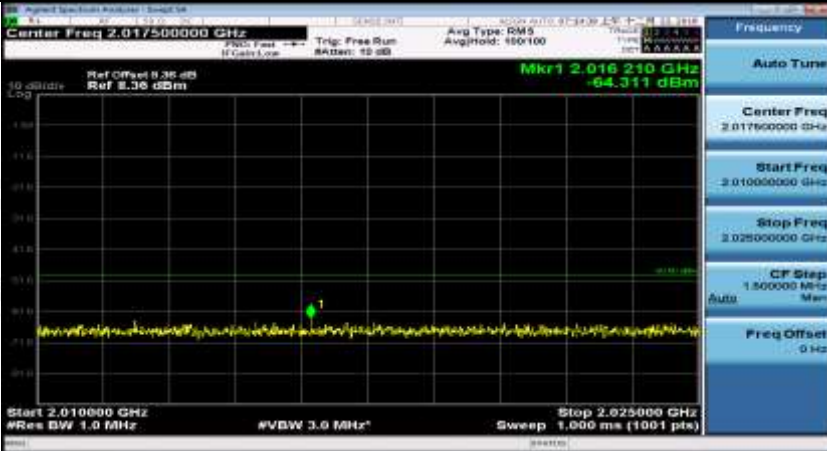
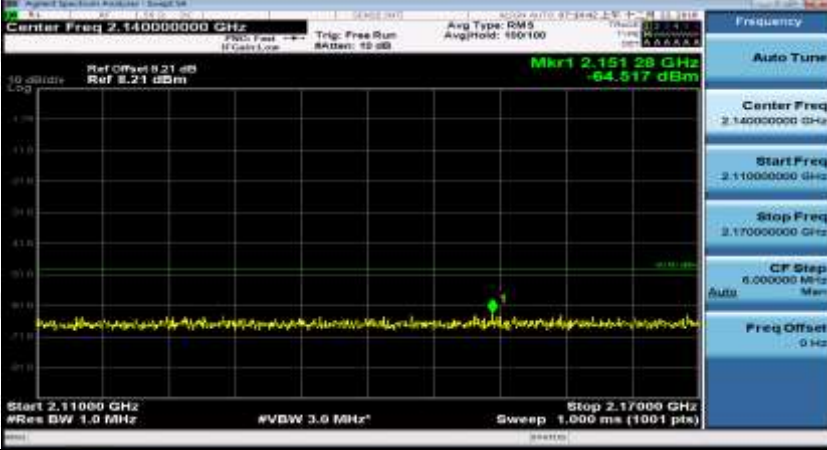
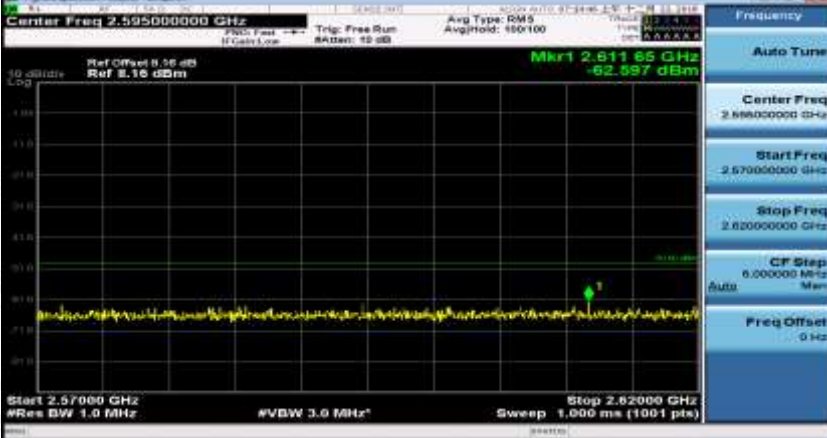
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General	 <p>Center Freq 1.349750000 GHz Mkr1 1.5778 GHz -65.248 dBm Start 1.0000 GHz Stop 1.6995 GHz Sweep 1.000 ms (1001 pts)</p>
General	 <p>Center Freq 3.362750000 GHz Mkr1 4.689 GHz -65.063 dBm Start 1.720 GHz Stop 5.000 GHz Sweep 5.467 ms (1001 pts)</p>
General	 <p>Center Freq 8.875000000 GHz Mkr1 10.67300 GHz -66.817 dBm Start 5.000 GHz Stop 12.750 GHz Sweep 12.93 ms (1001 pts)</p>

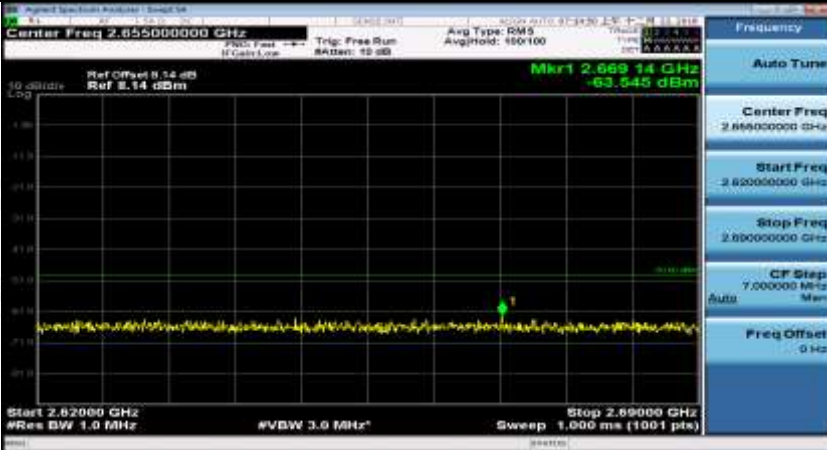
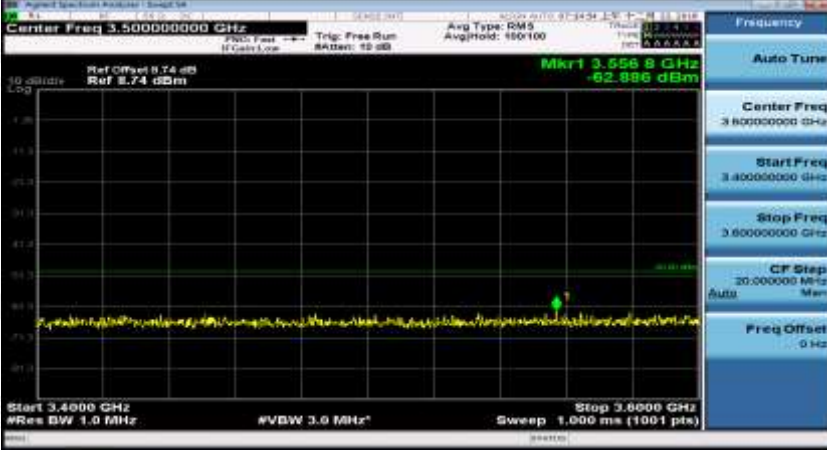
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Co-existence	
Co-existence	
Co-existence	

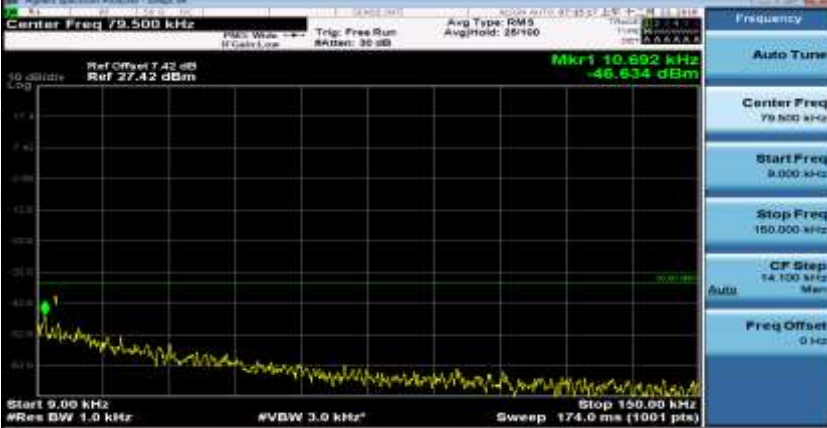


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Co-existence	
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Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA


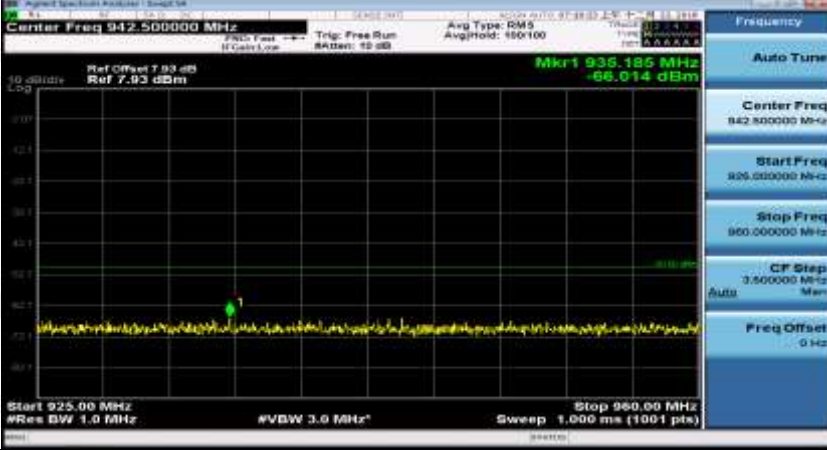
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Channel Bandwidth= (5 MHz)_QPSK_LCH_1RB#max		
General		
General		
General		

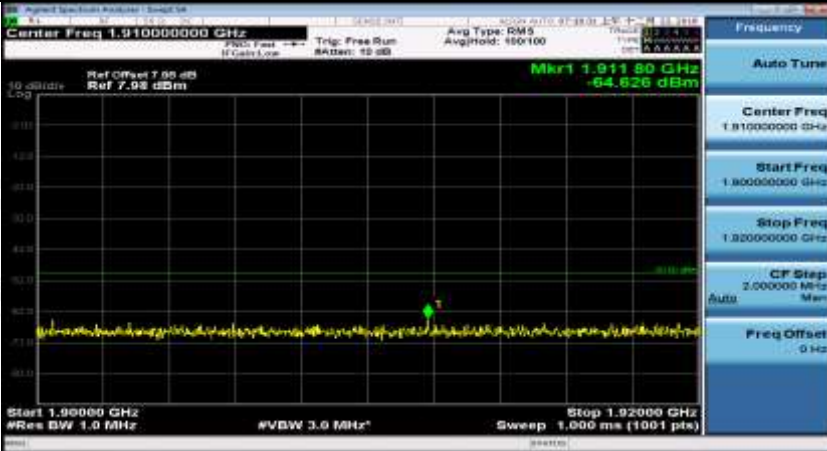
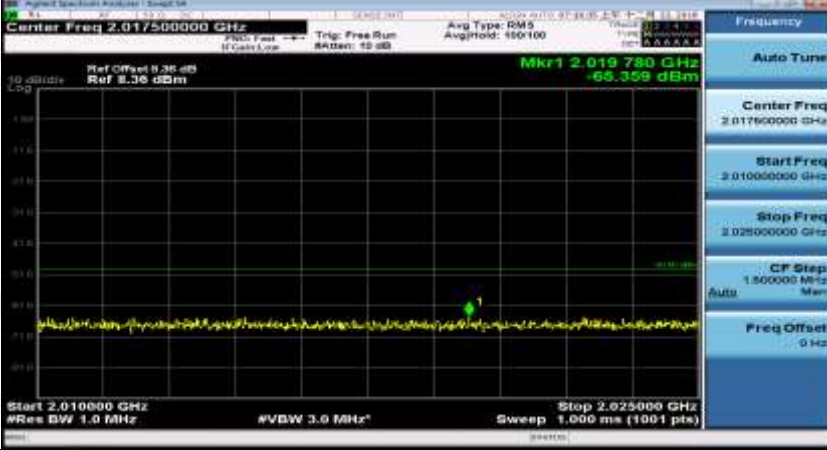
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General	
General	
General	

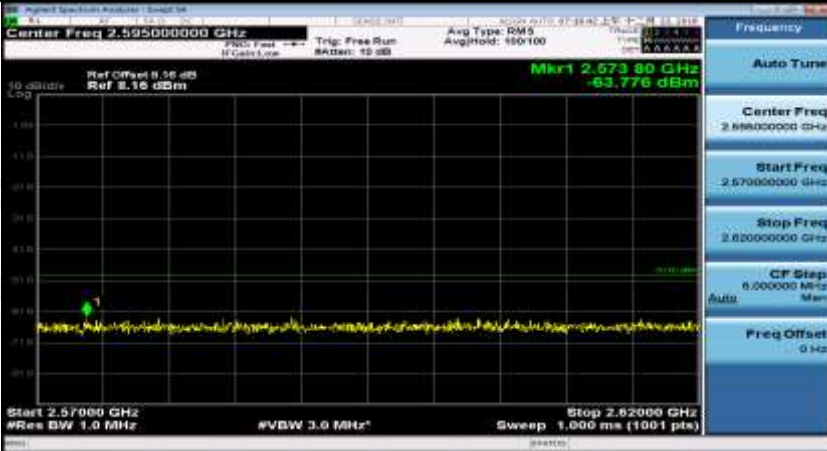
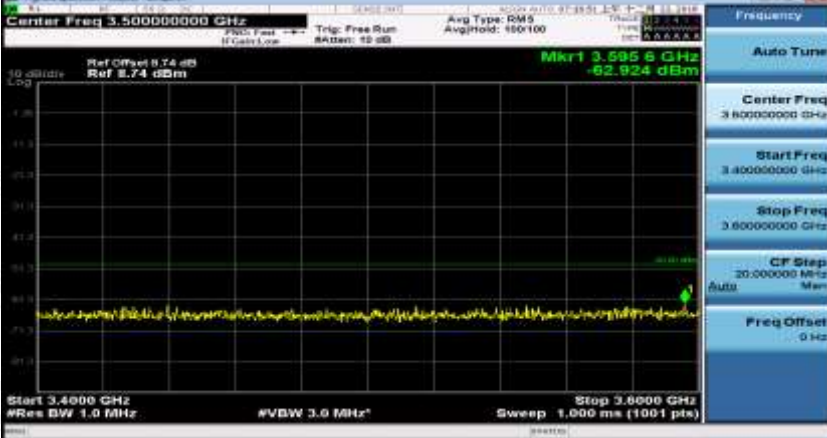
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Co-existence	
Co-existence	
Co-existence	

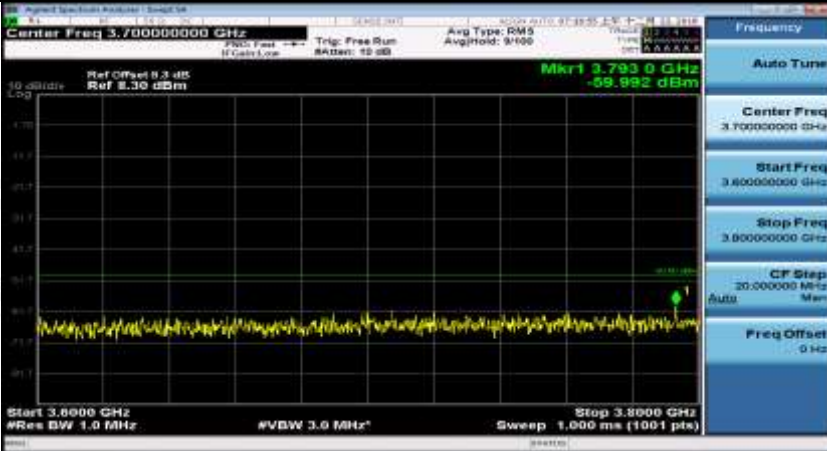
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Co-existence	
Co-existence	
Co-existence	

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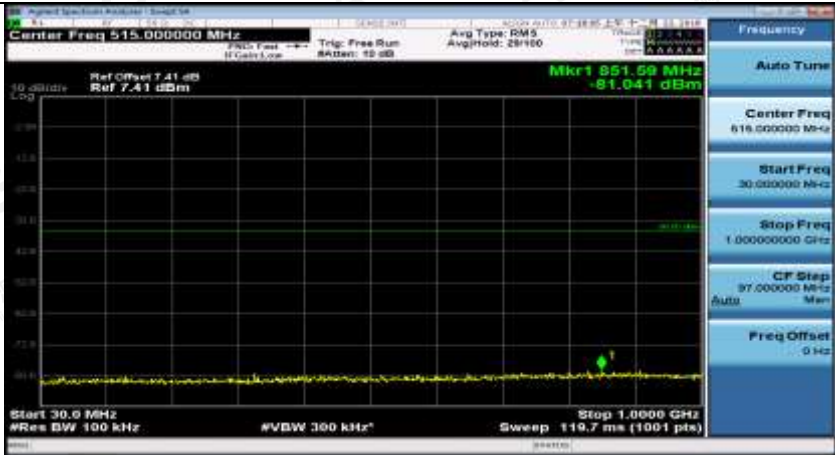
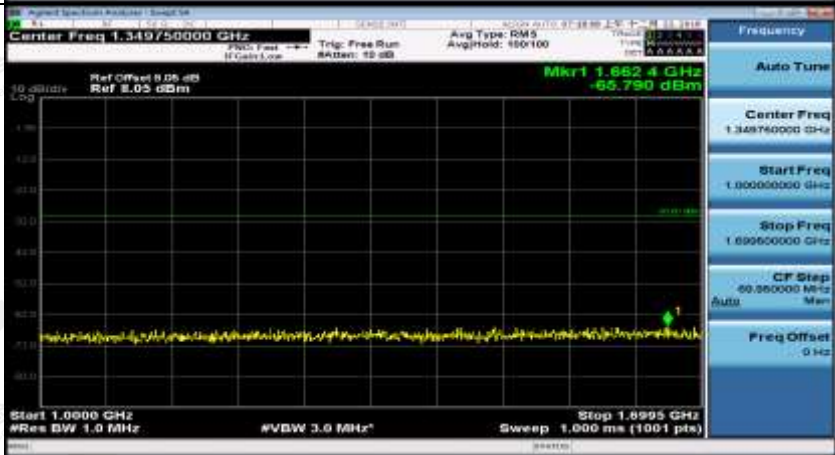
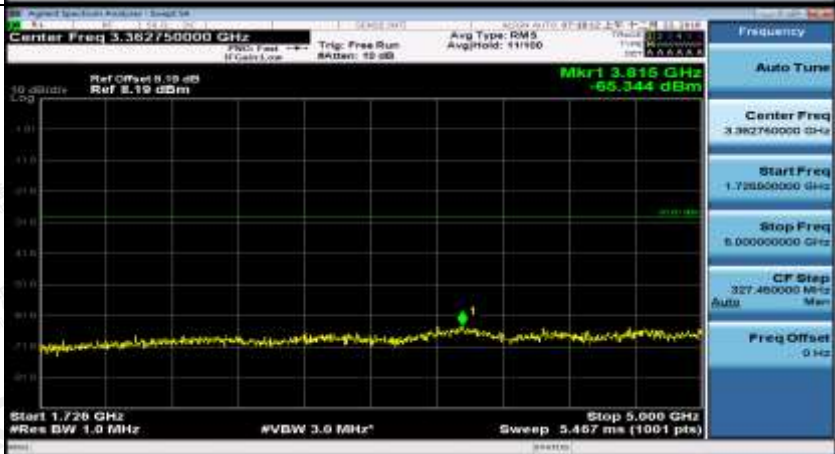
Co-existence	
Co-existence	
Co-existence	

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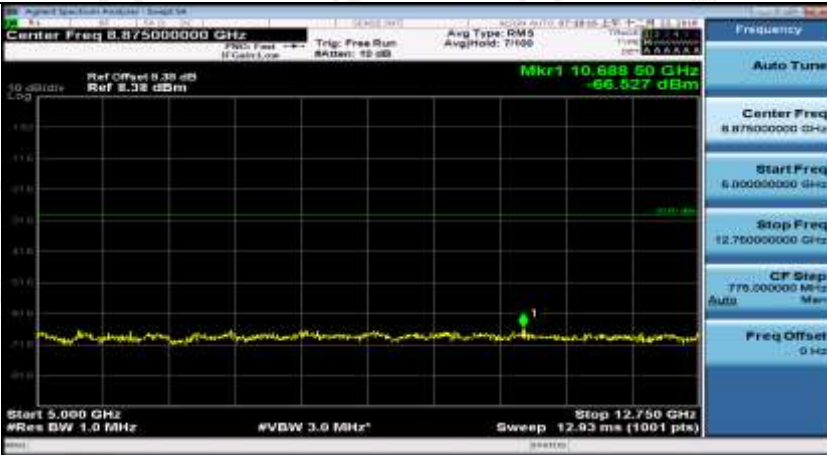

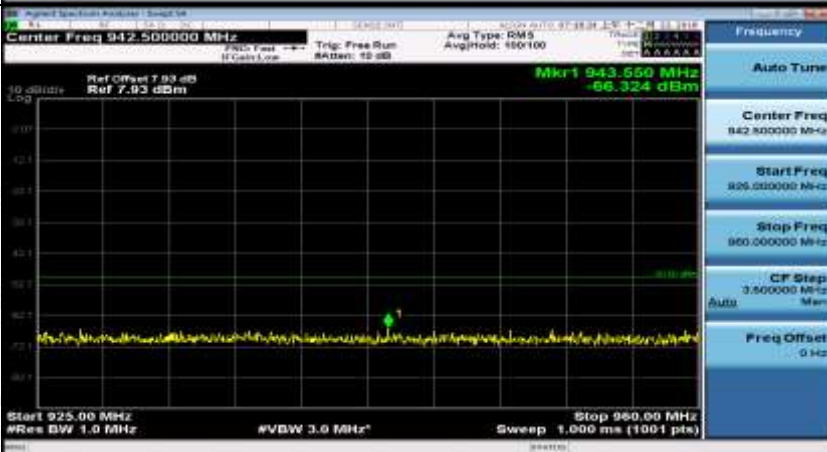
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_LCH_FullRB#0	
General	
General	

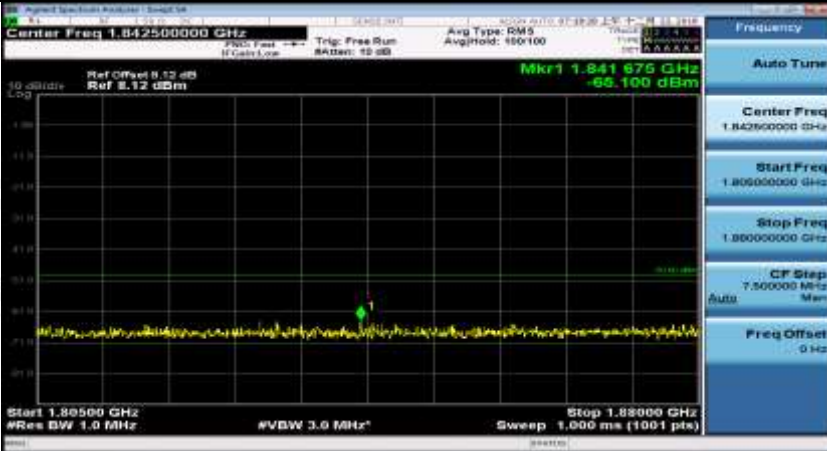
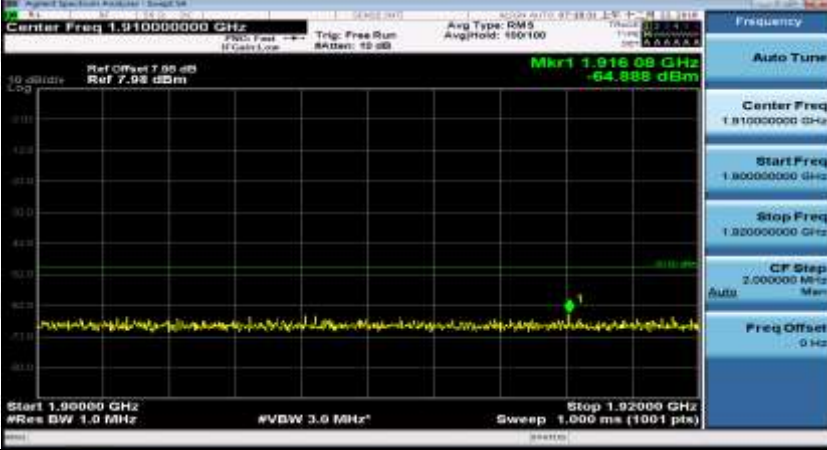

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General			
General			
General			



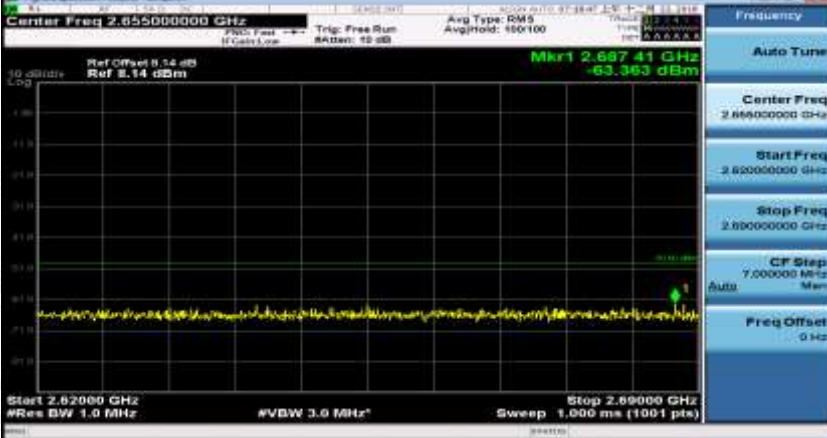
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General	
Co-existence	
Co-existence	

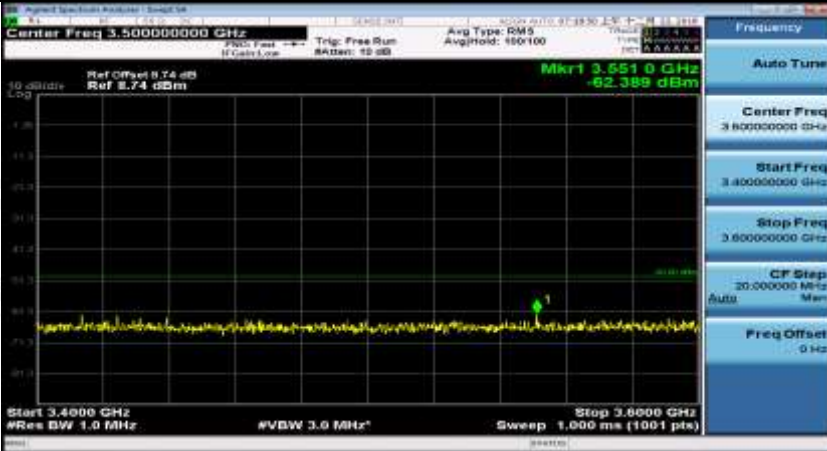

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Co-existence	
Co-existence	
Co-existence	

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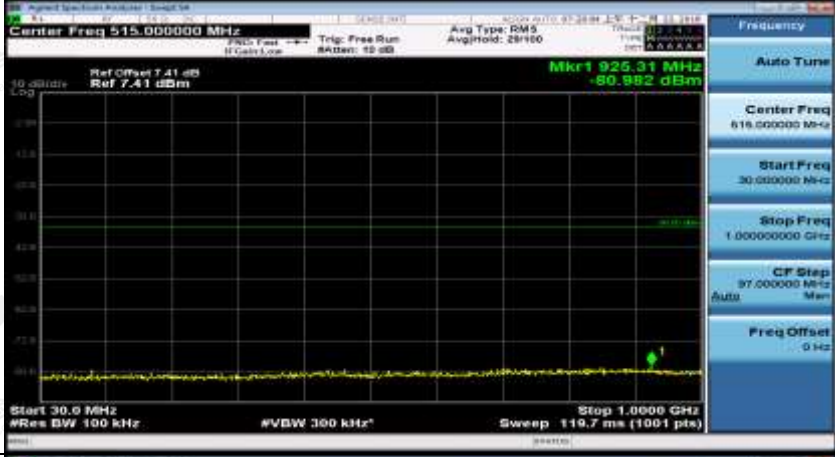
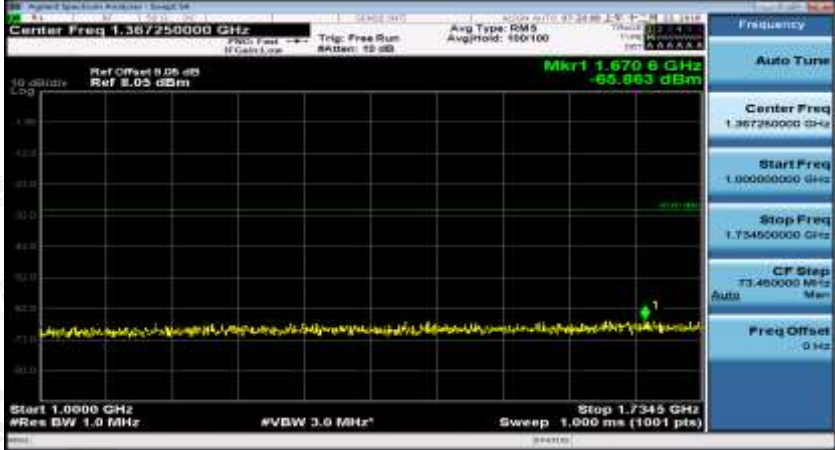
Co-existence	
Co-existence	
Co-existence	

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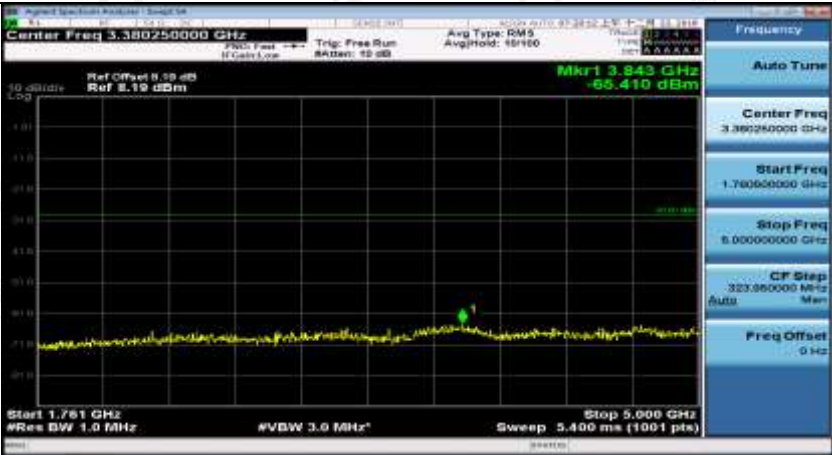

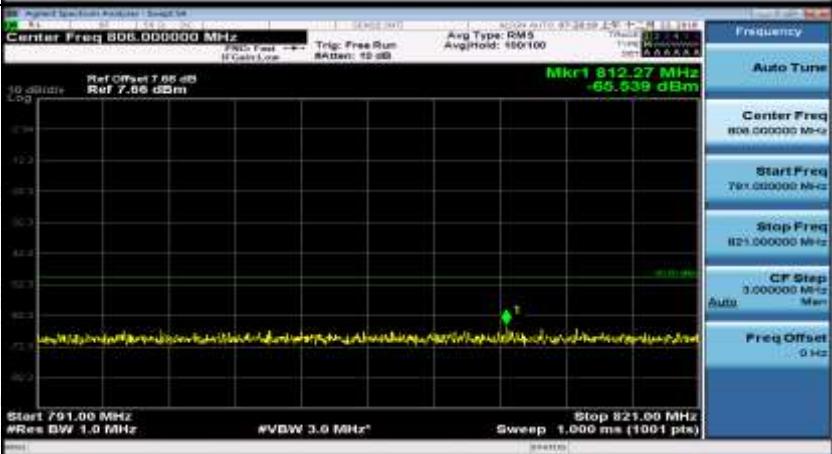
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#0	
General	

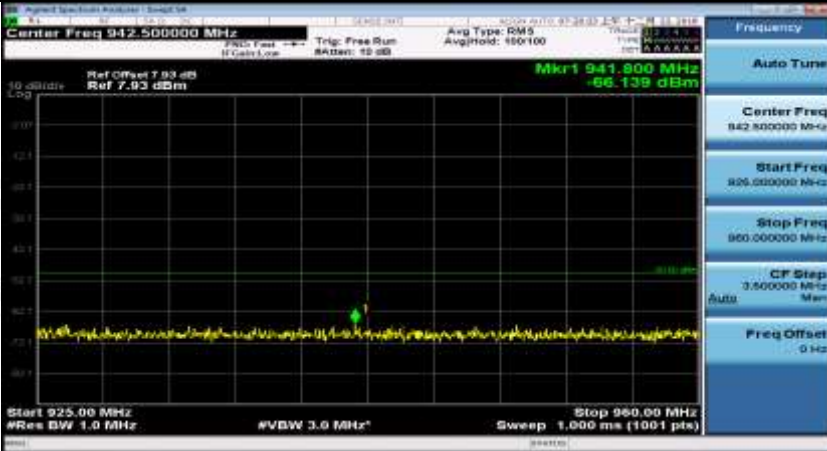
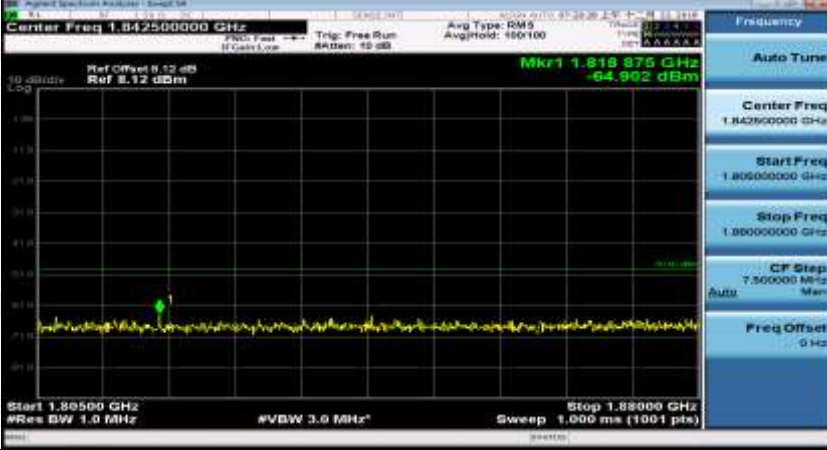
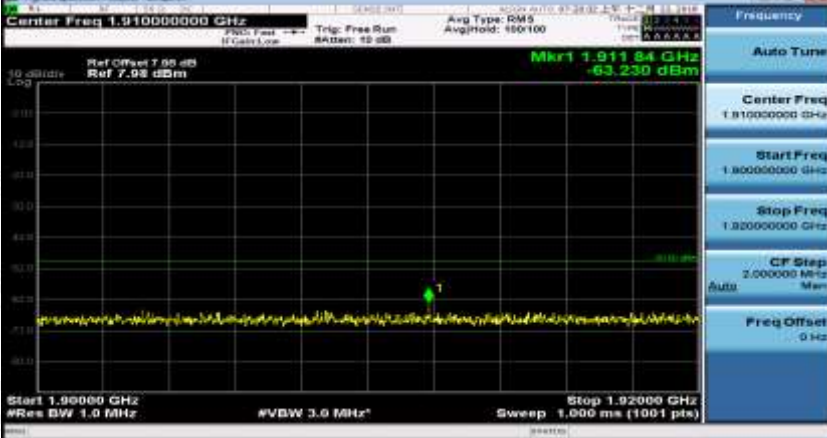
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General			
General			
General			


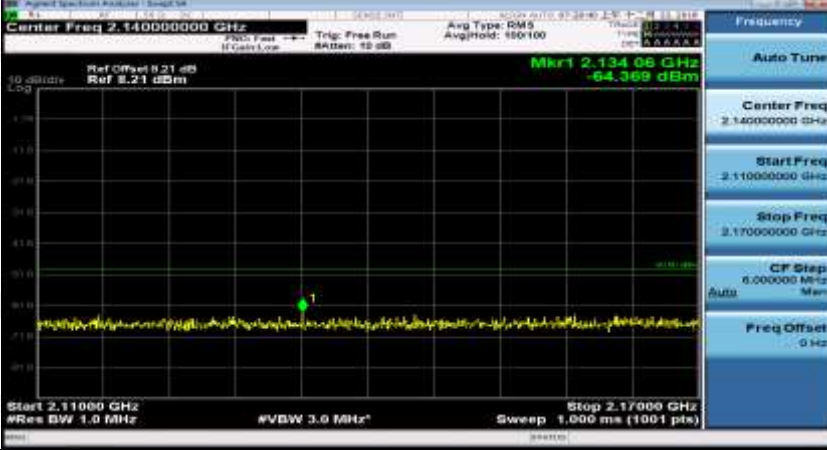
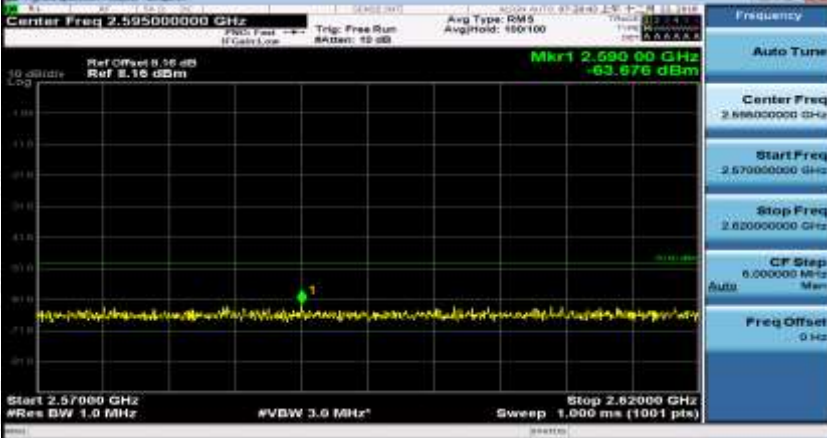
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General	
General	
Co-existence	

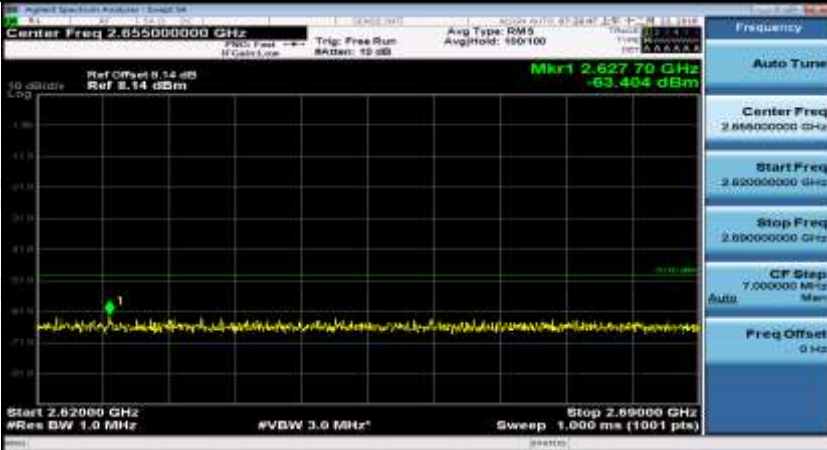
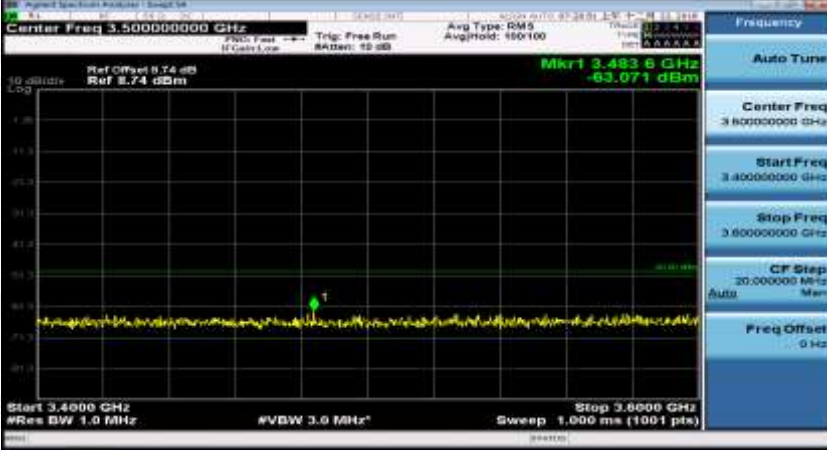
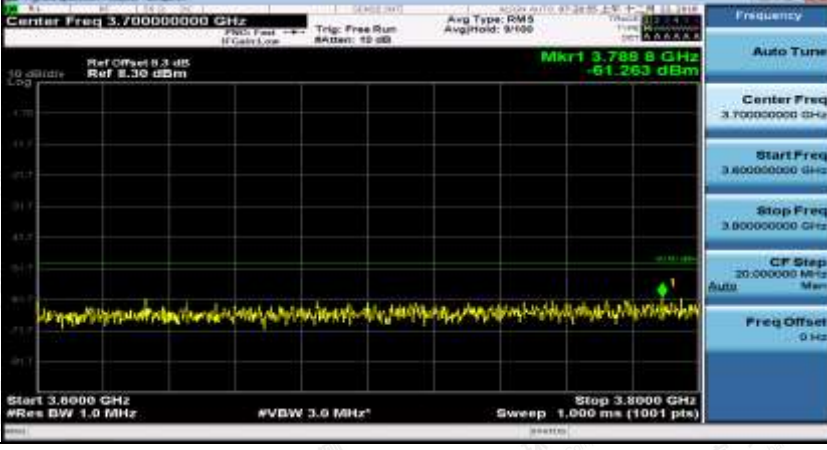
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

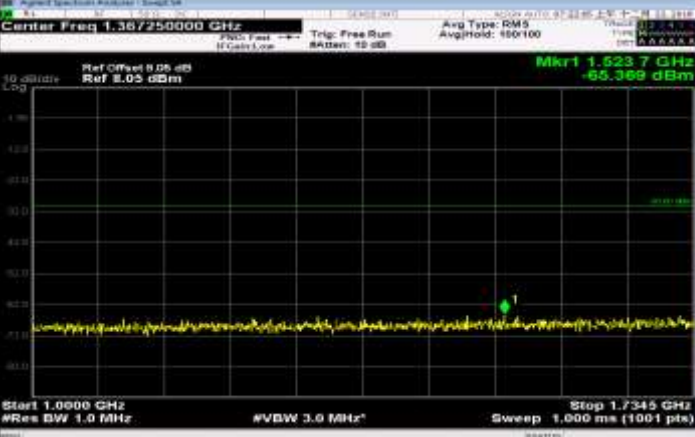


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Co-existence	
Co-existence	
Co-existence	
Additional	NA


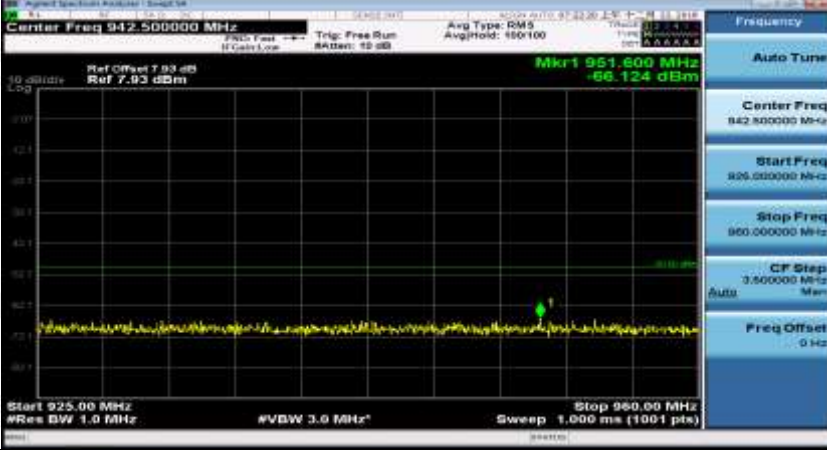
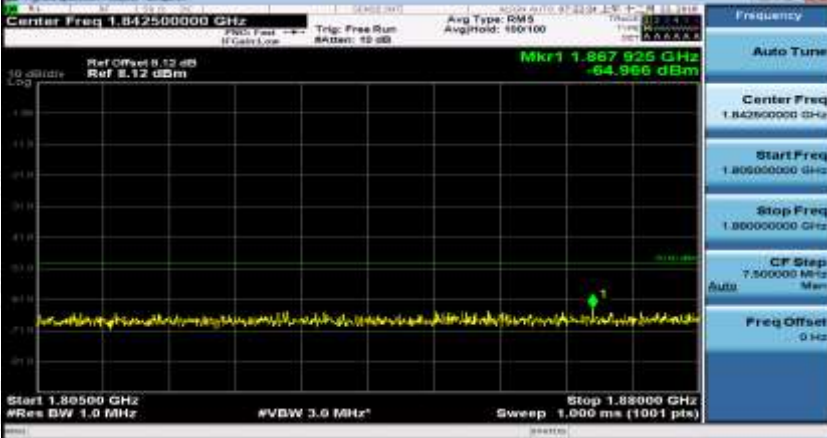
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Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#max		
General		
General		
General		

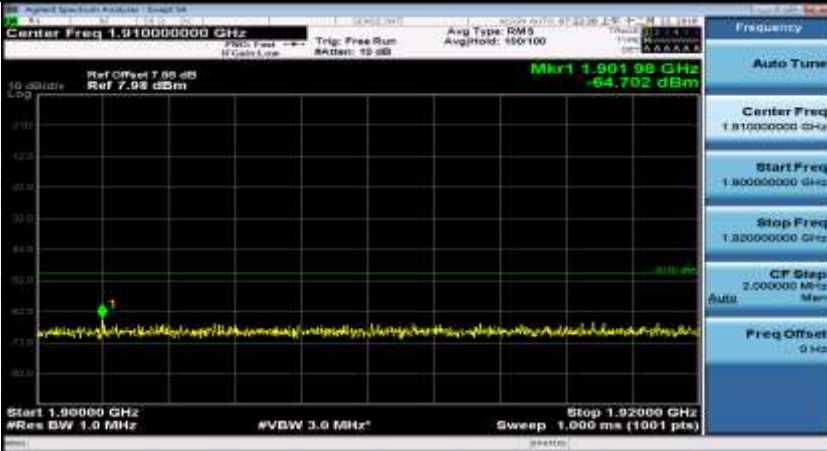
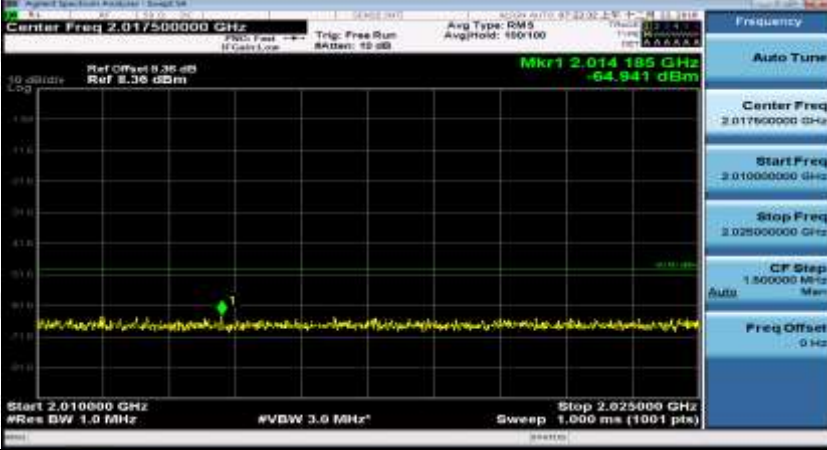
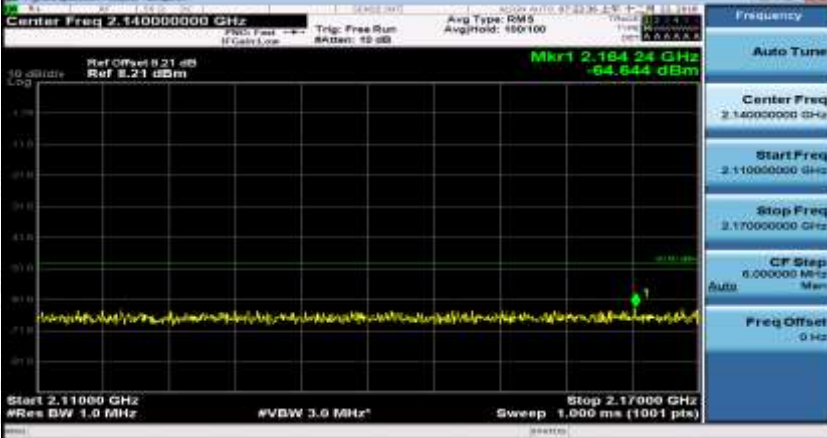
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.367250000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.734500000 GHz</p> <p>CF Step 73.450000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.380250000 GHz</p> <p>Start Freq 1.700000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 323.360000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>

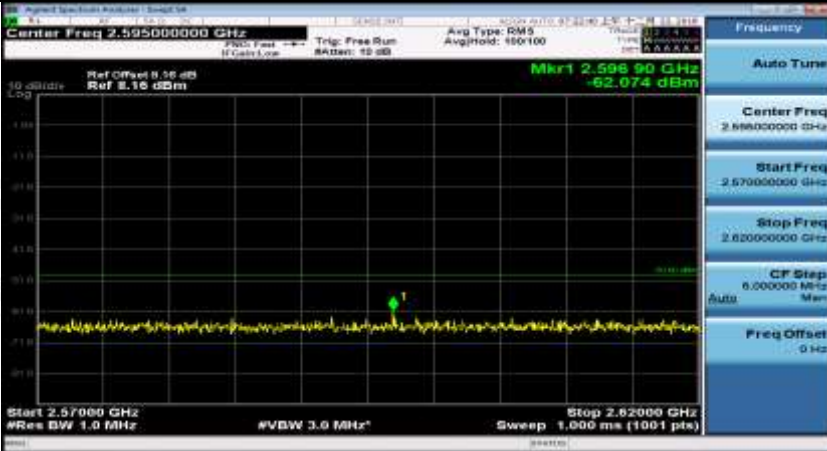
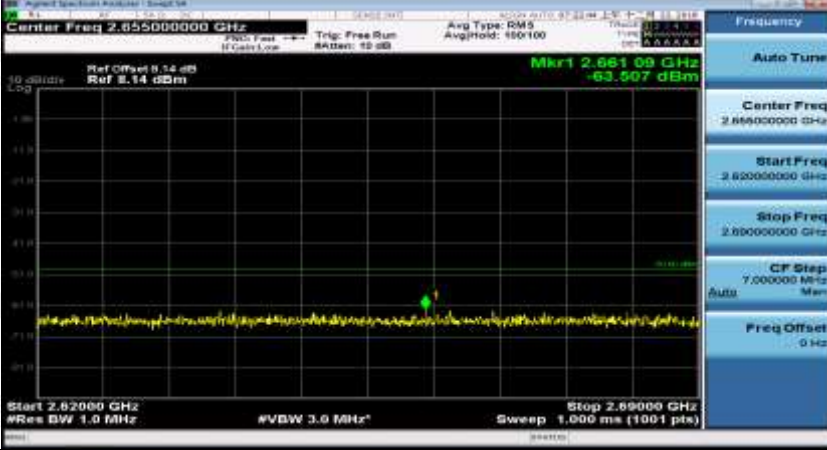
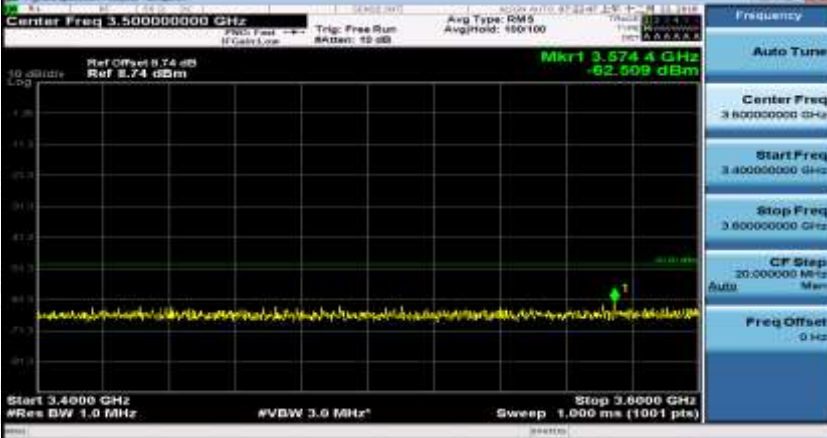
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Co-existence	
Co-existence	
Co-existence	

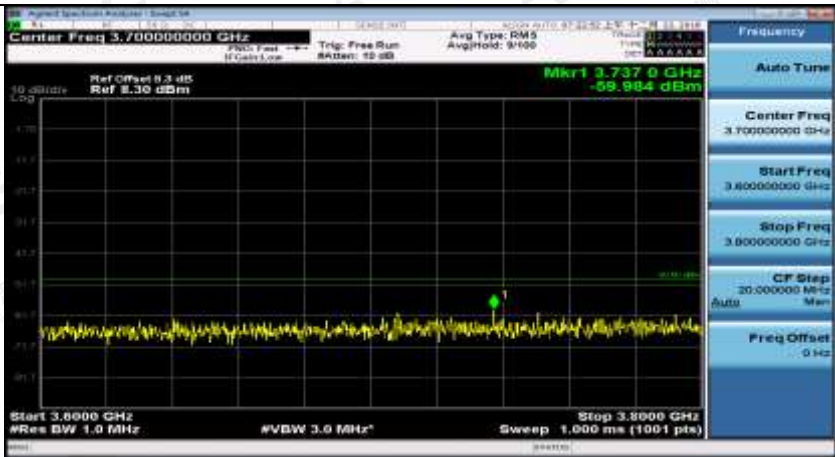
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Co-existence	
Co-existence	
Co-existence	

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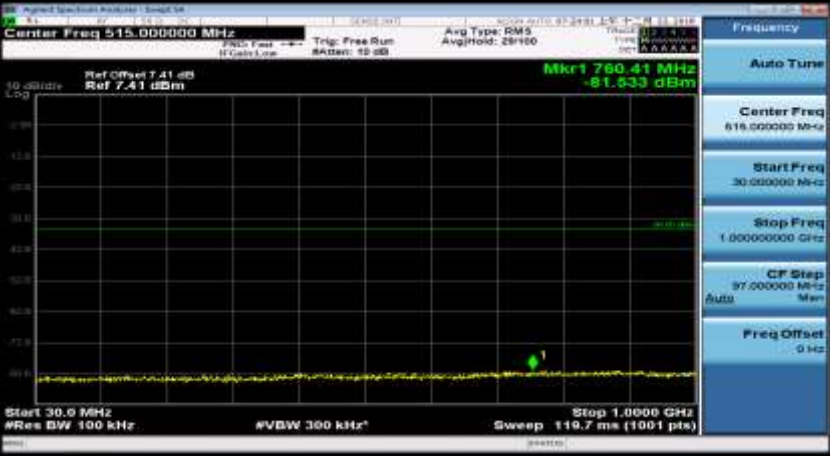

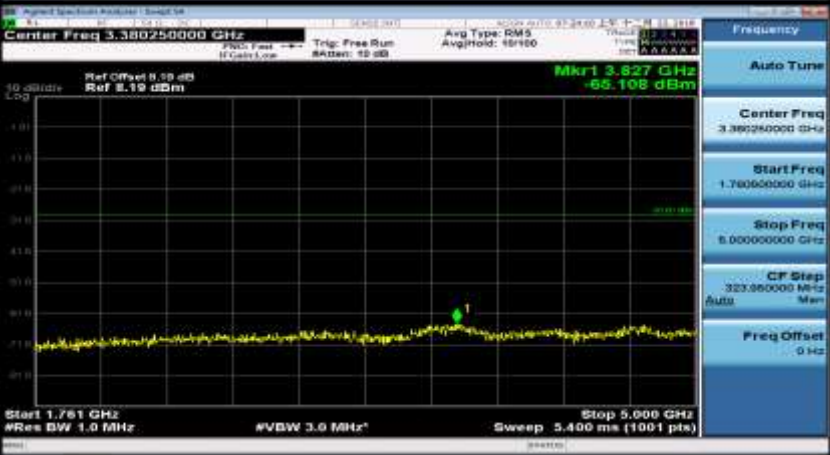
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_FullIRB#0	
General	
General	

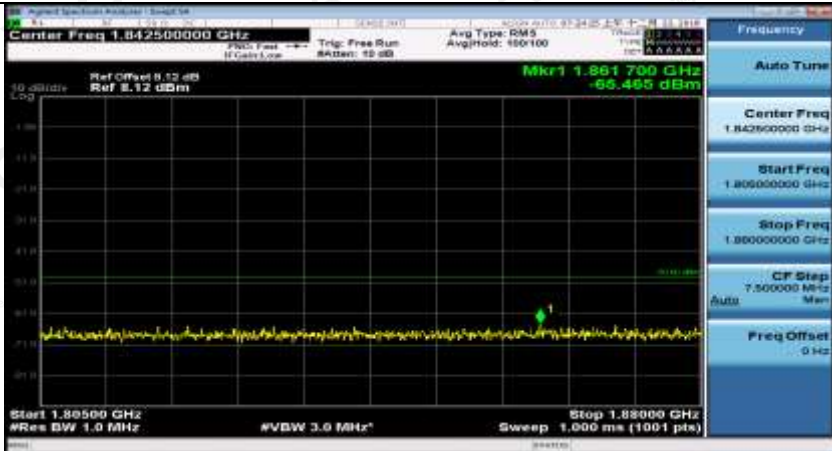
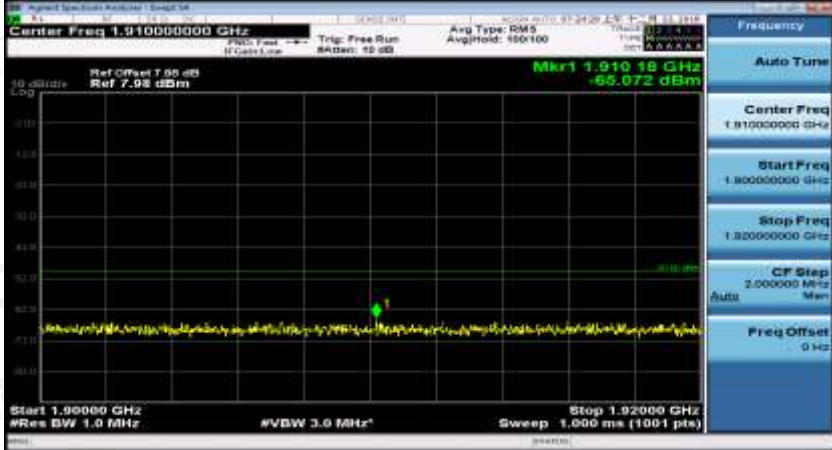
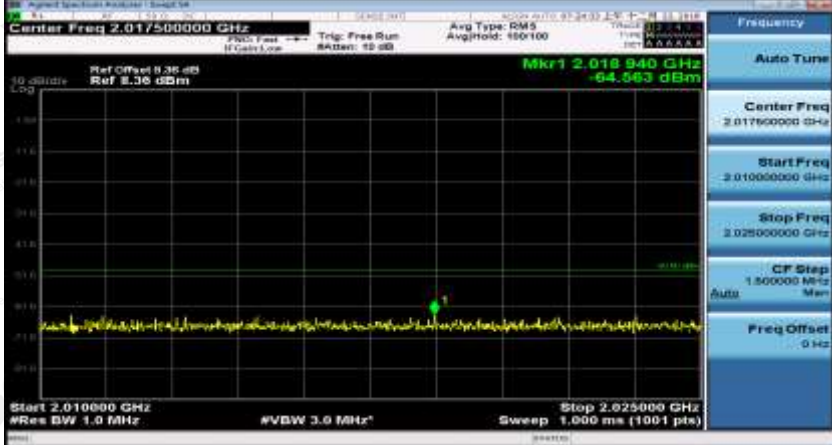
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General		
General		
General		

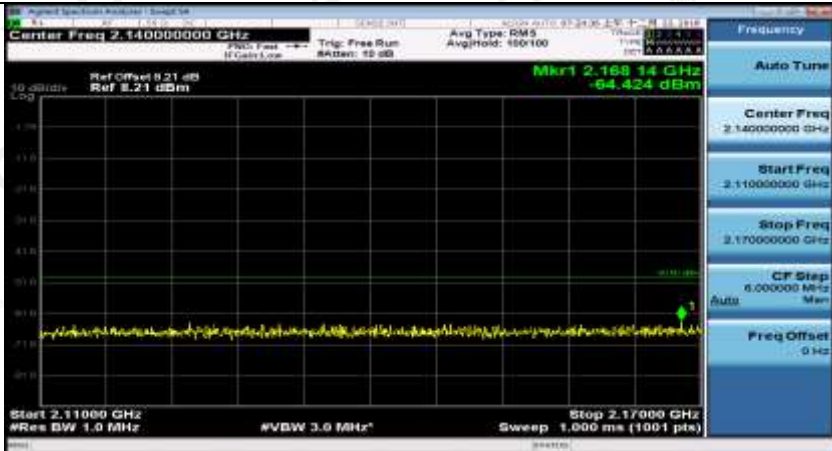
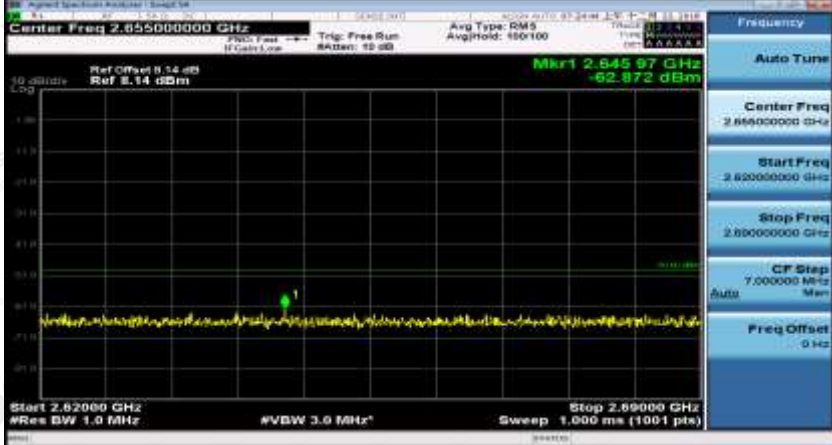
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General		
Co-existence		
Co-existence		

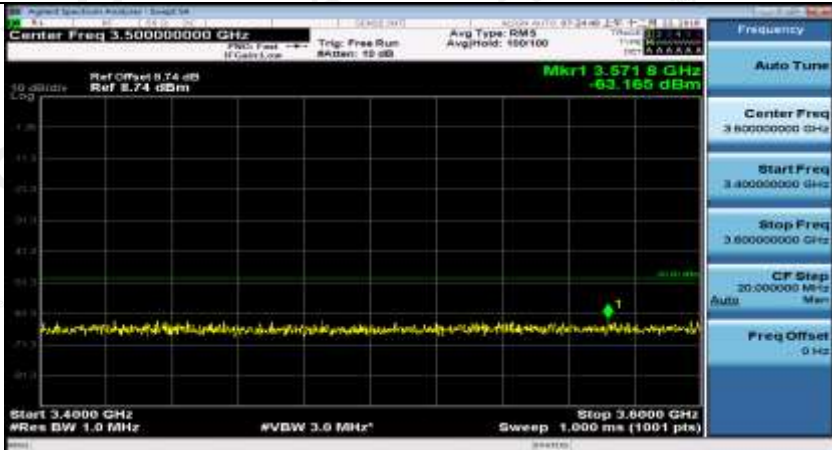
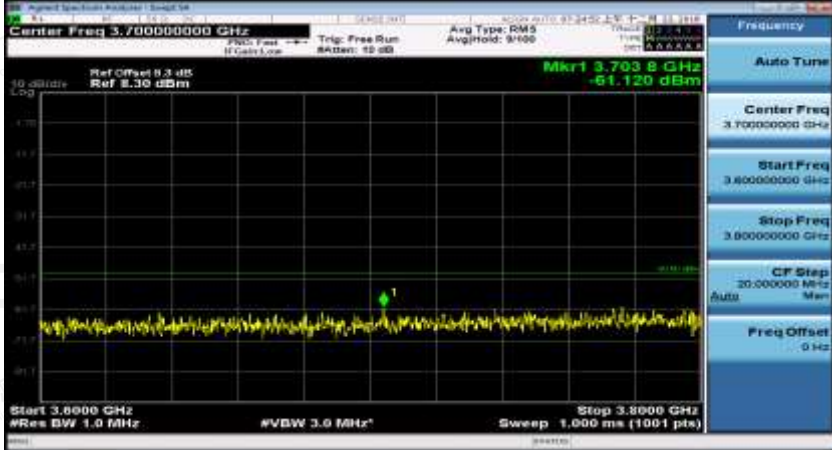
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Co-existence	
Co-existence	
Co-existence	

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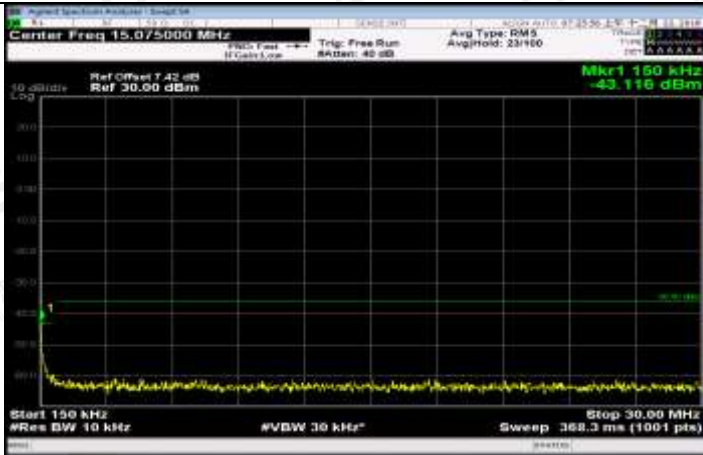
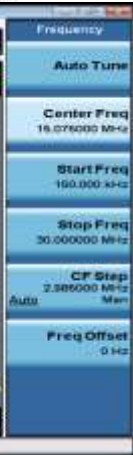
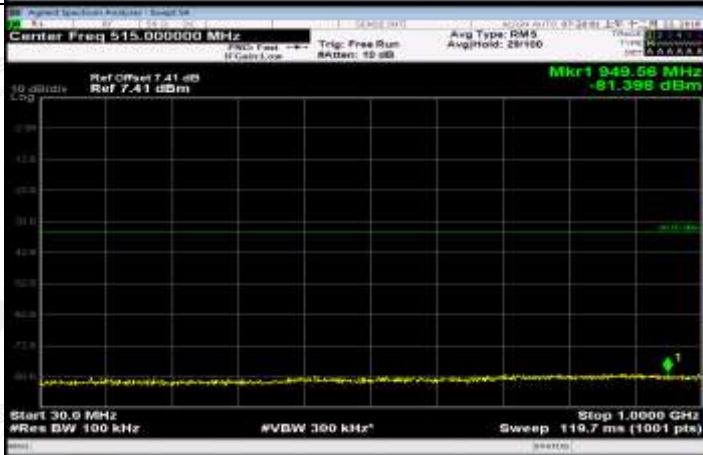

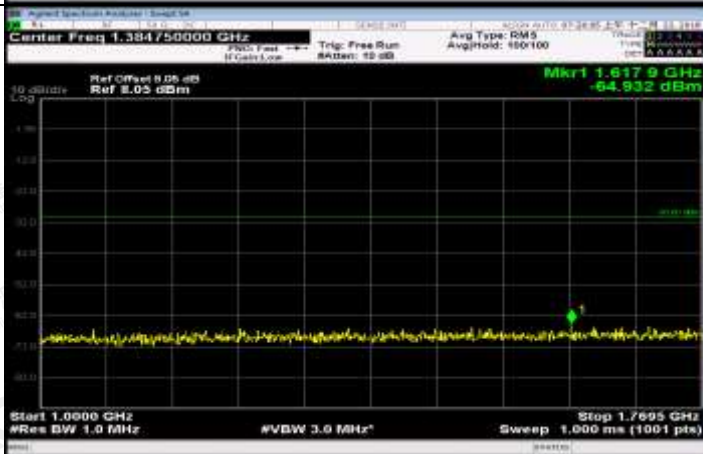

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#0	
General	

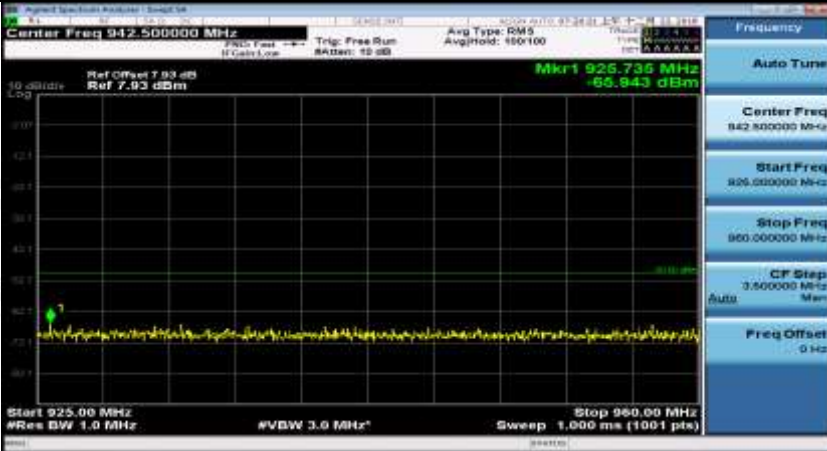
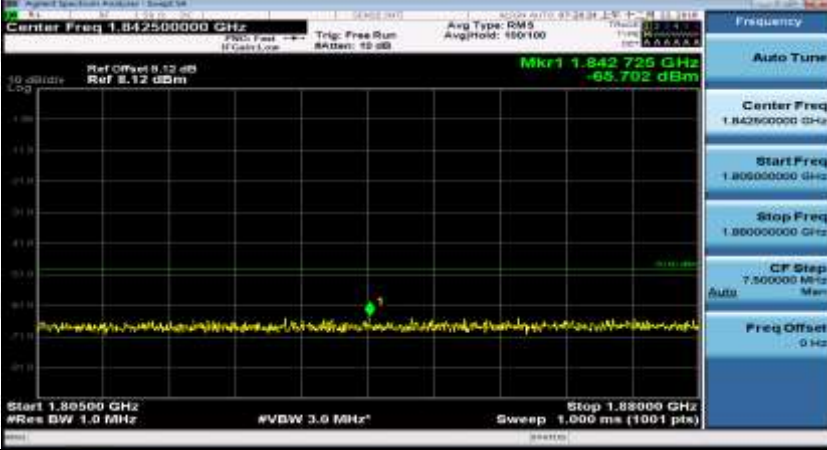
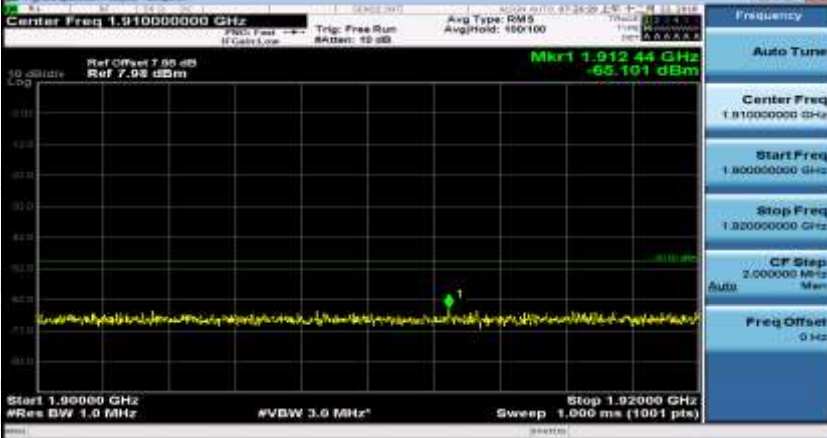
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General			
General			
General			


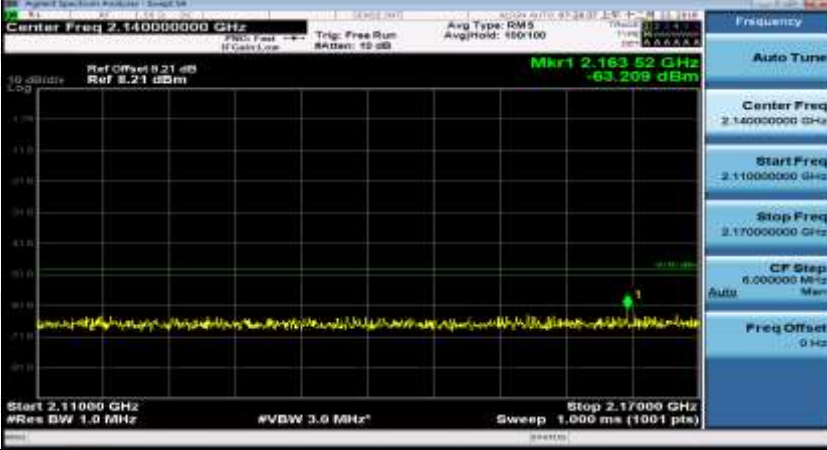
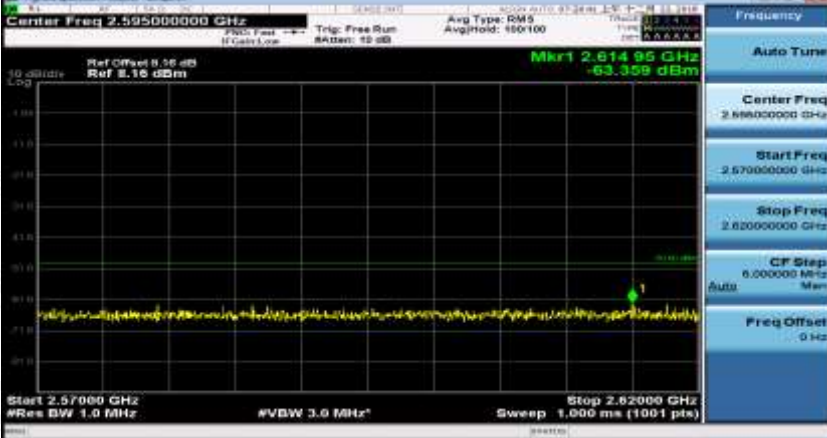
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General	
General	
Co-existence	

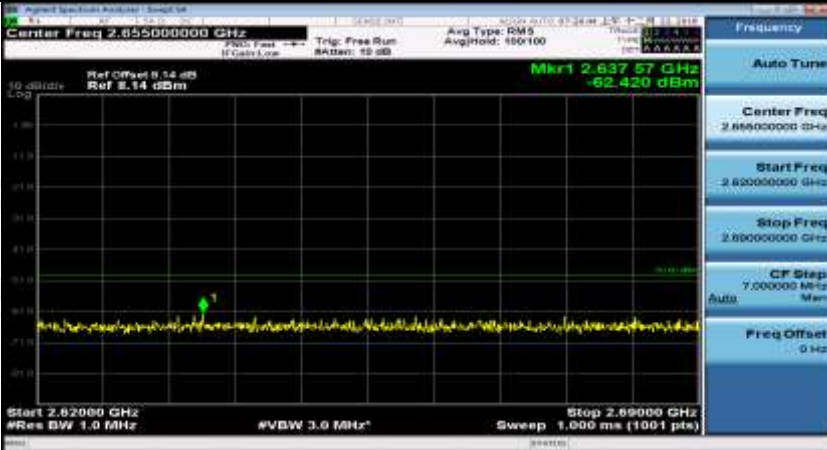
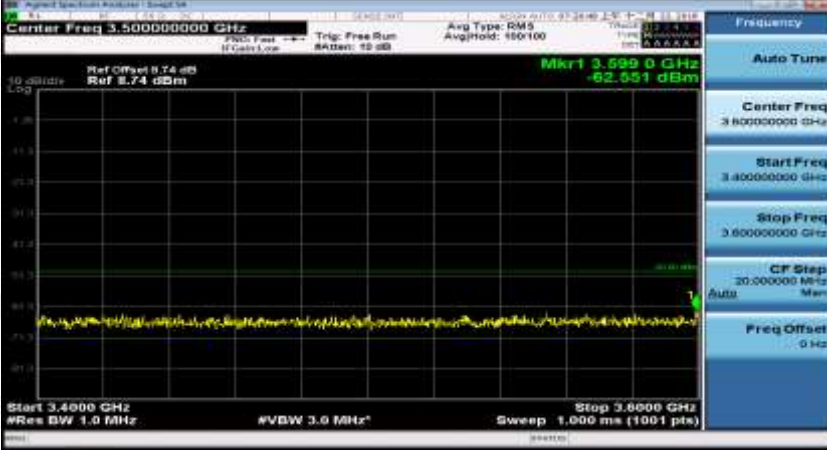
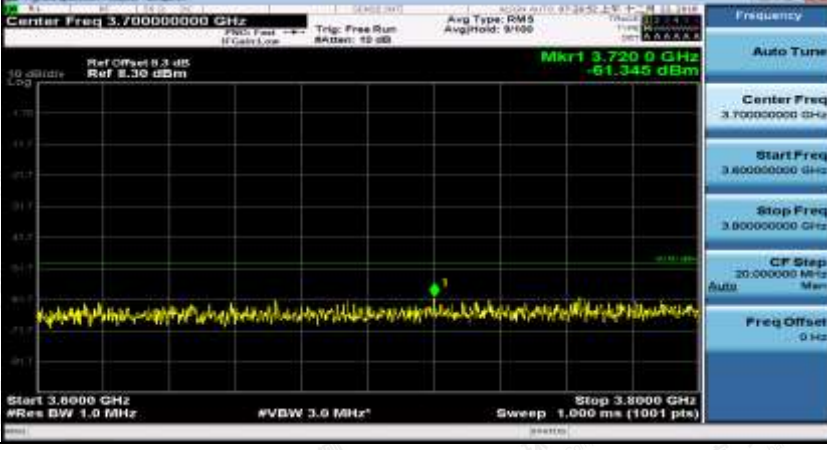
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Co-existence	
Co-existence	
Co-existence	

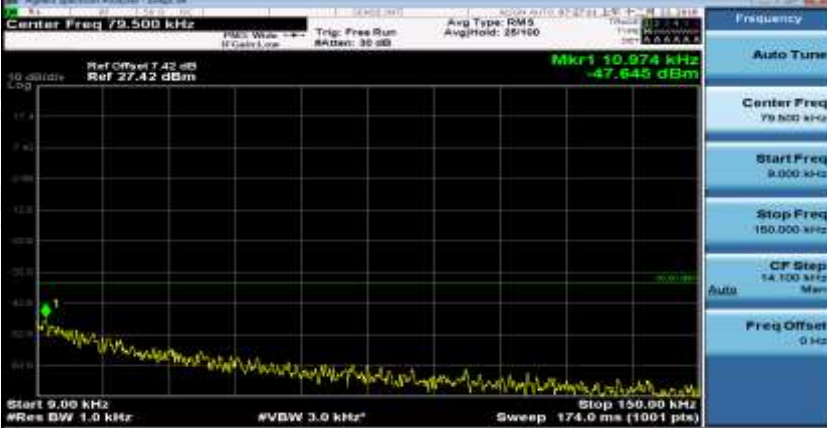


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Co-existence	
Co-existence	
Co-existence	

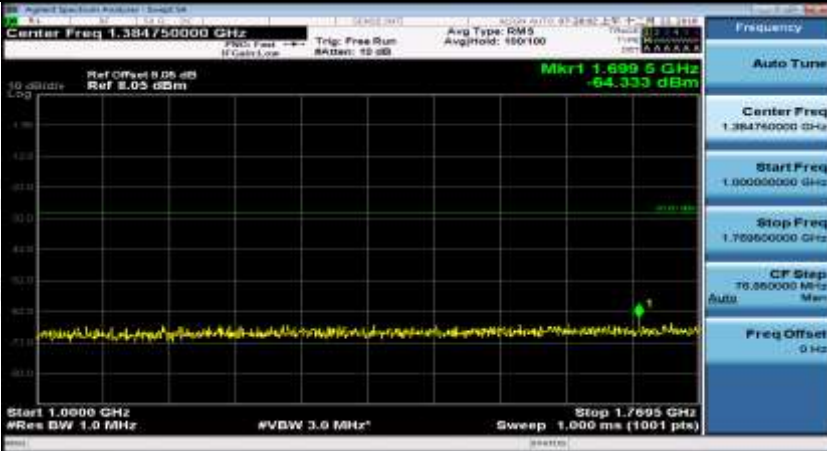

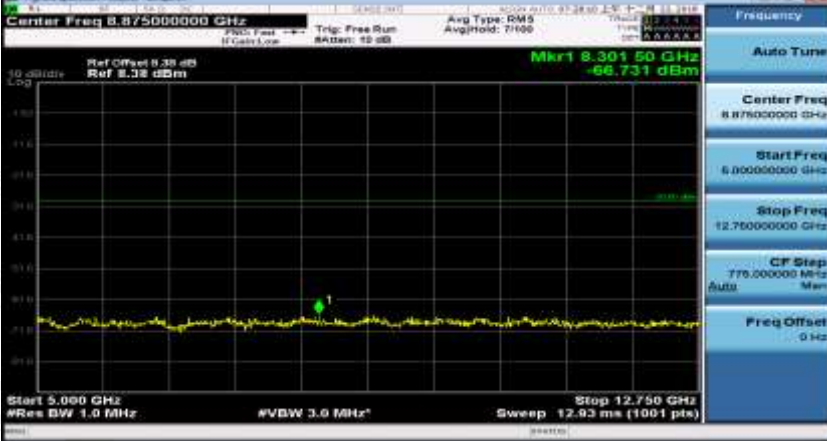
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Co-existence	
Co-existence	
Co-existence	
Additional	NA


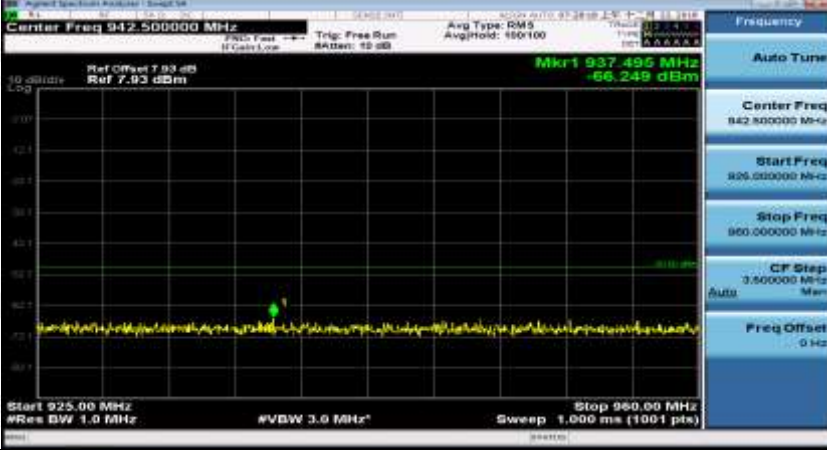
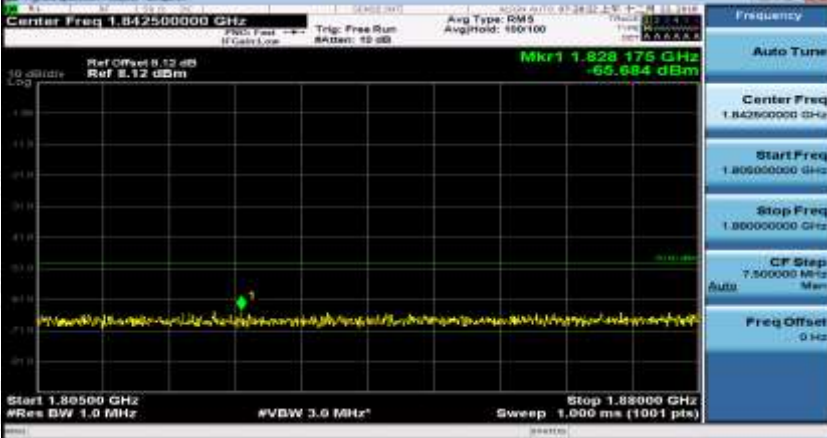
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Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#max		
General		
General		
General		

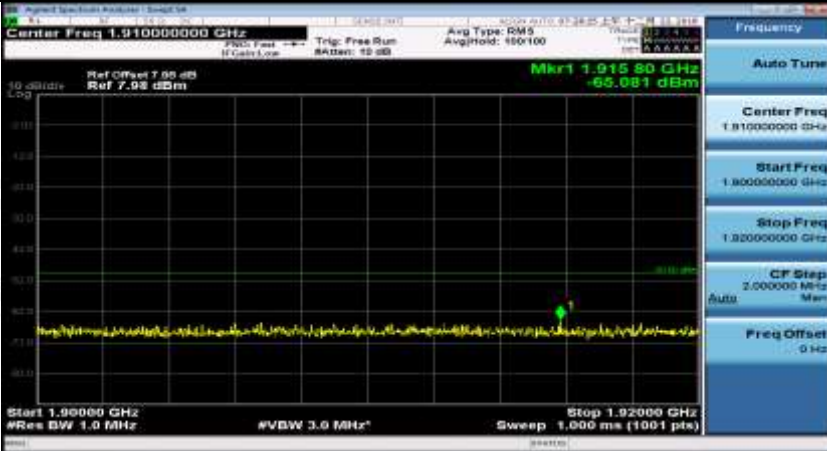
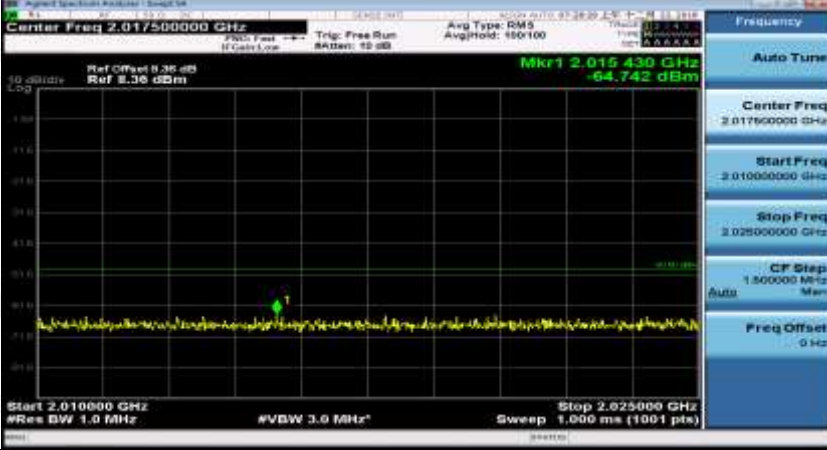
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General	
General	
General	

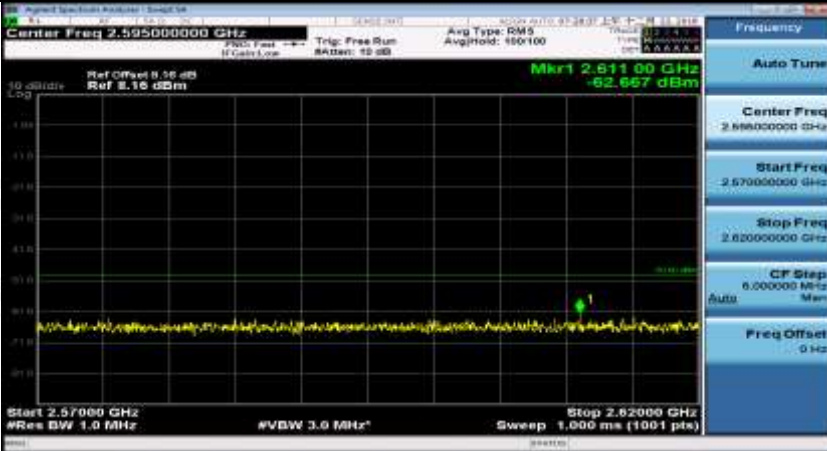
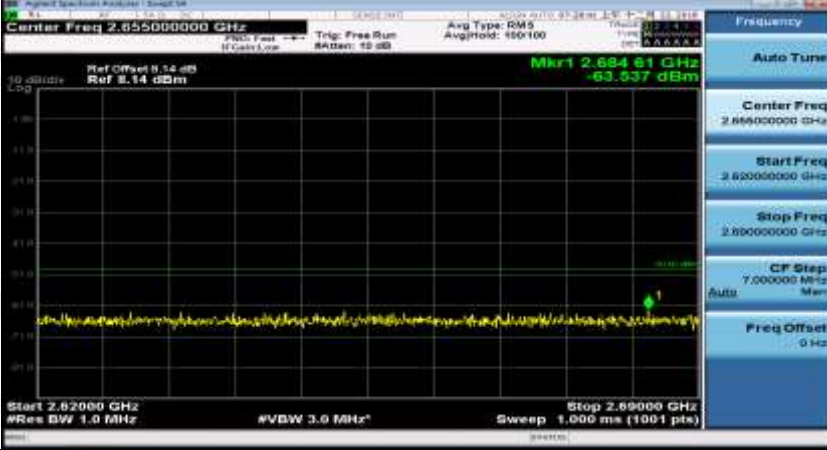
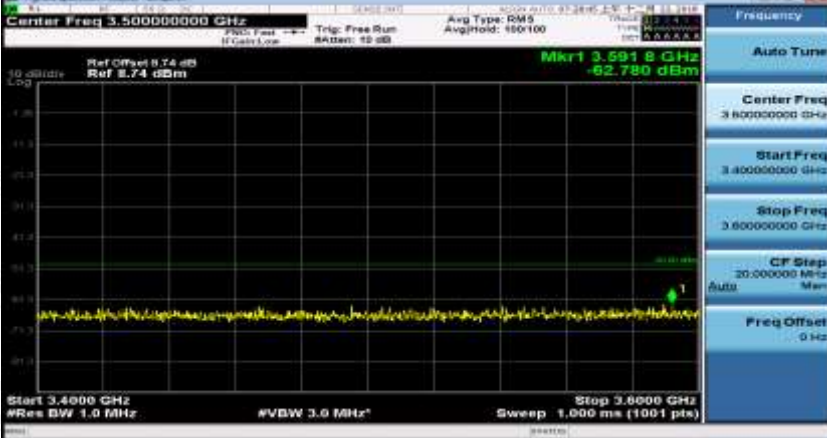
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Co-existence	
Co-existence	
Co-existence	

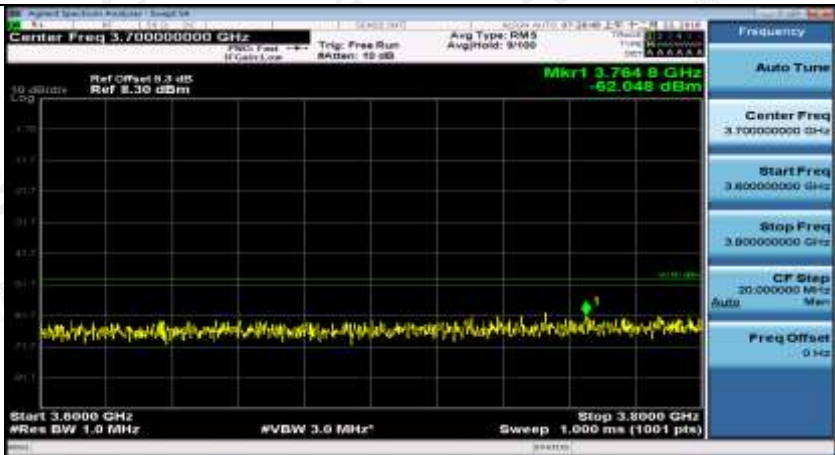
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Co-existence	
Co-existence	
Co-existence	

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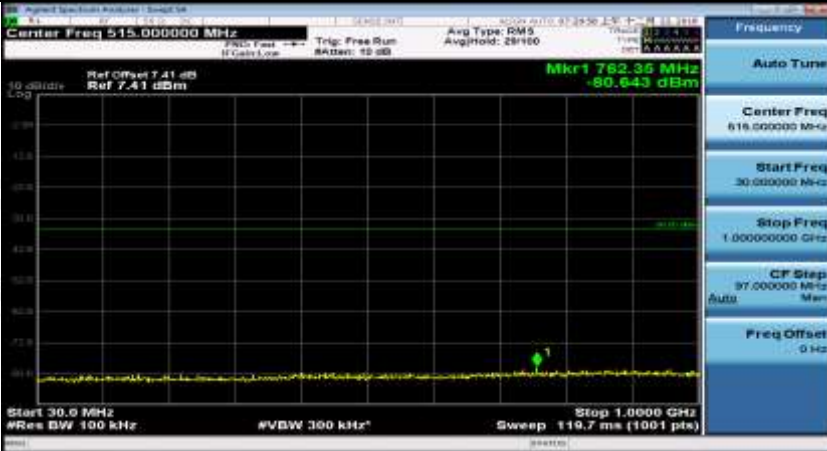
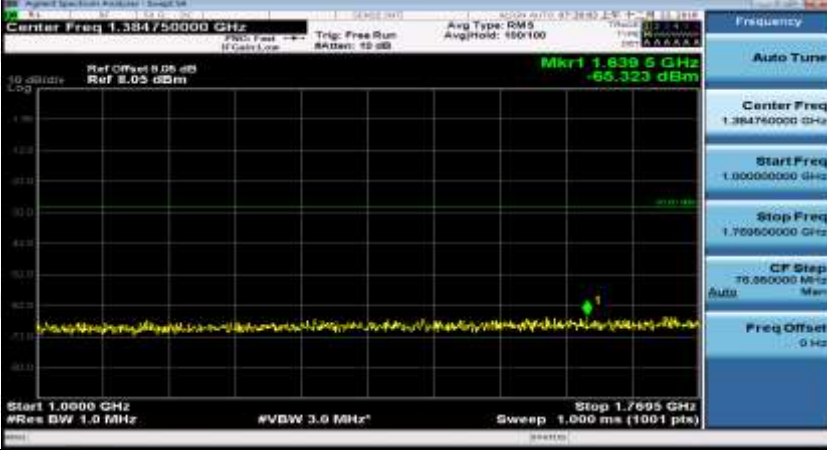
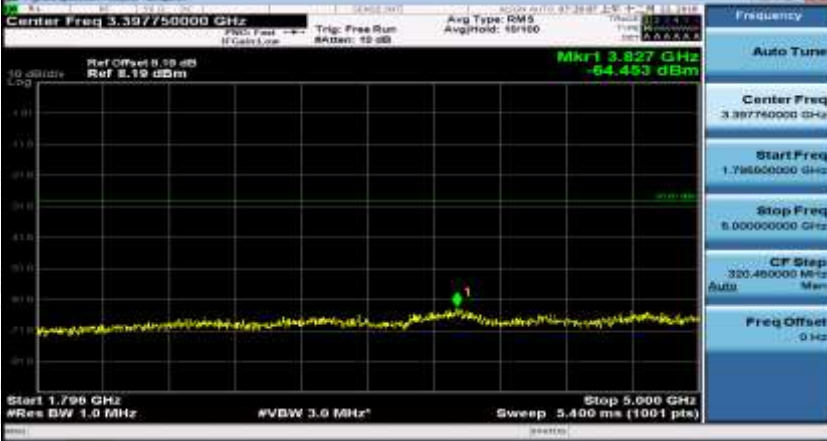
Co-existence	
Co-existence	
Co-existence	

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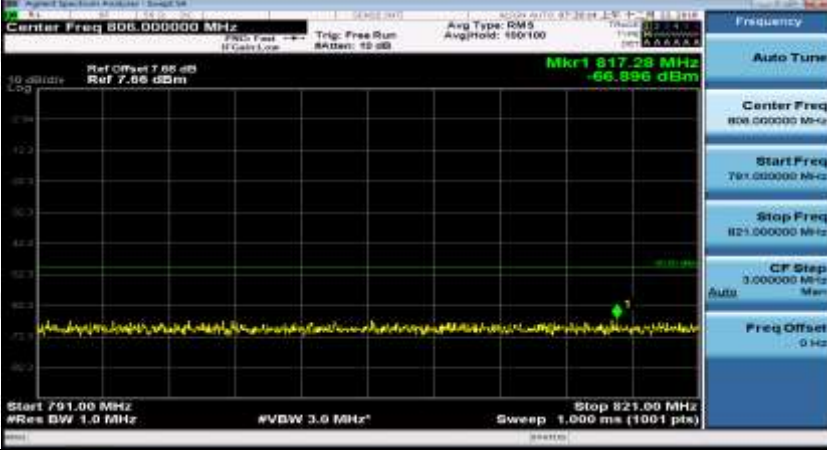
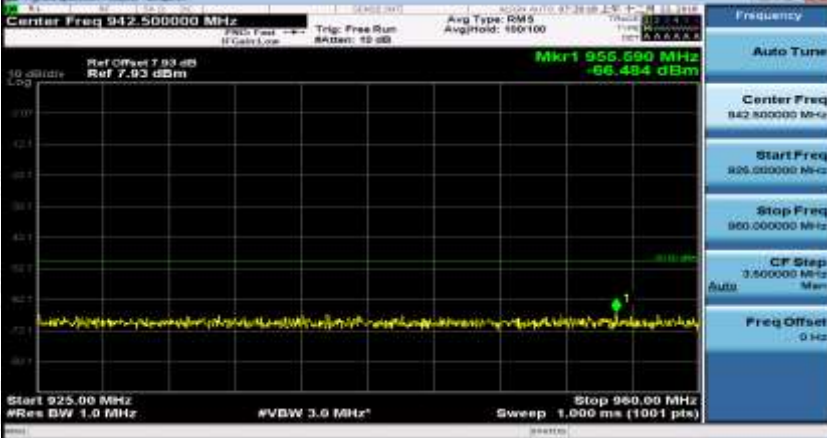
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_FullRB#0	
General	
General	

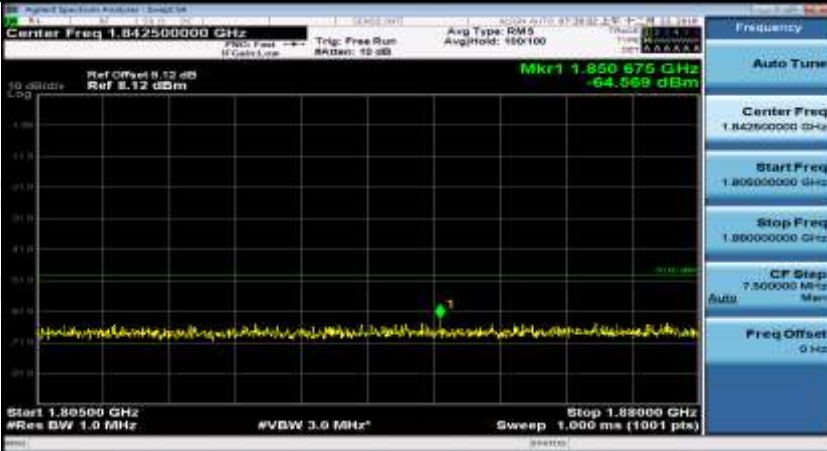
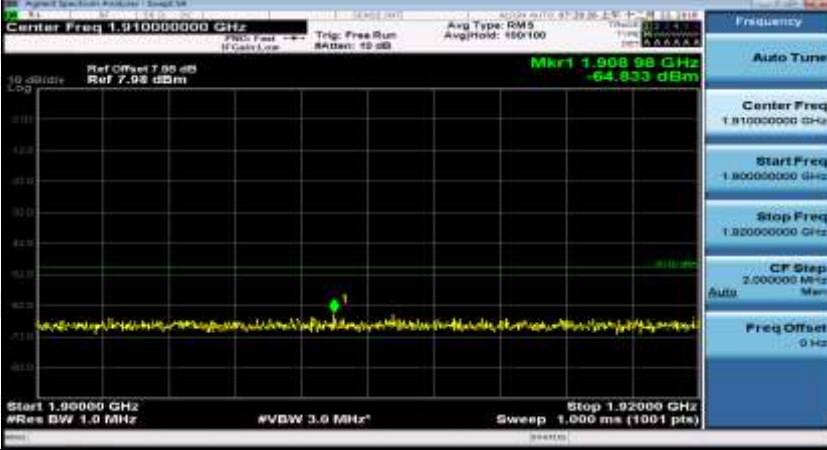

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General	
General	
General	

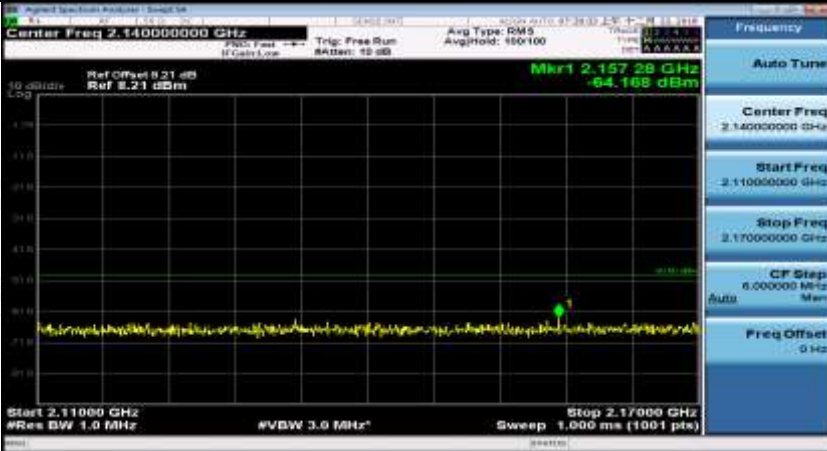
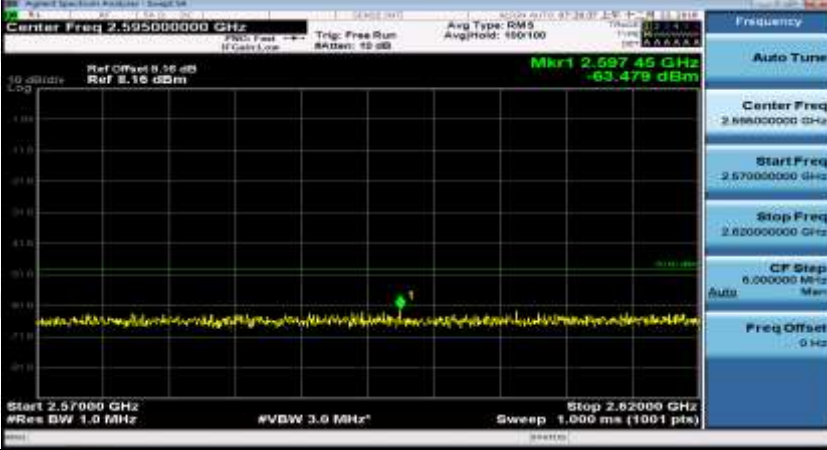
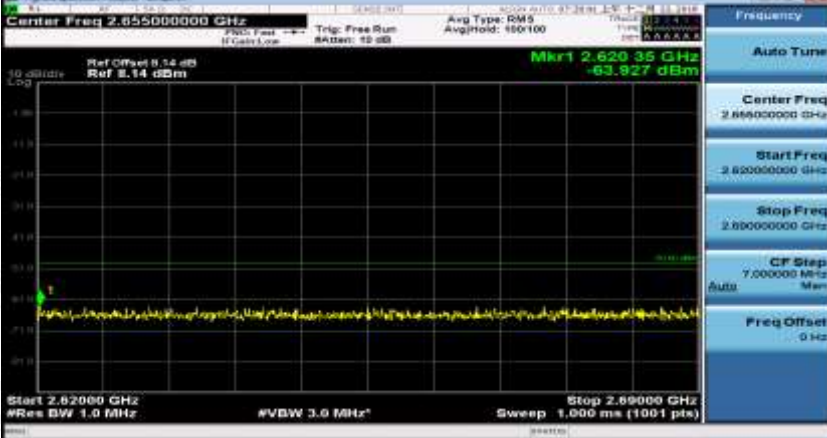
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General	
Co-existence	
Co-existence	

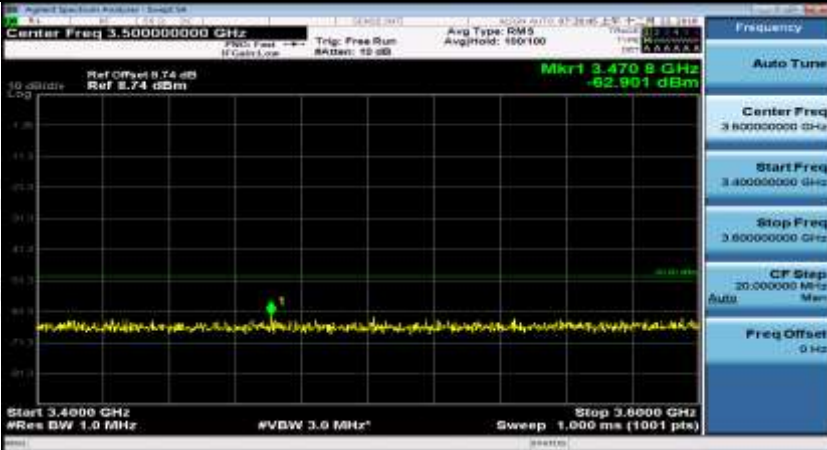

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Co-existence	
Co-existence	
Co-existence	

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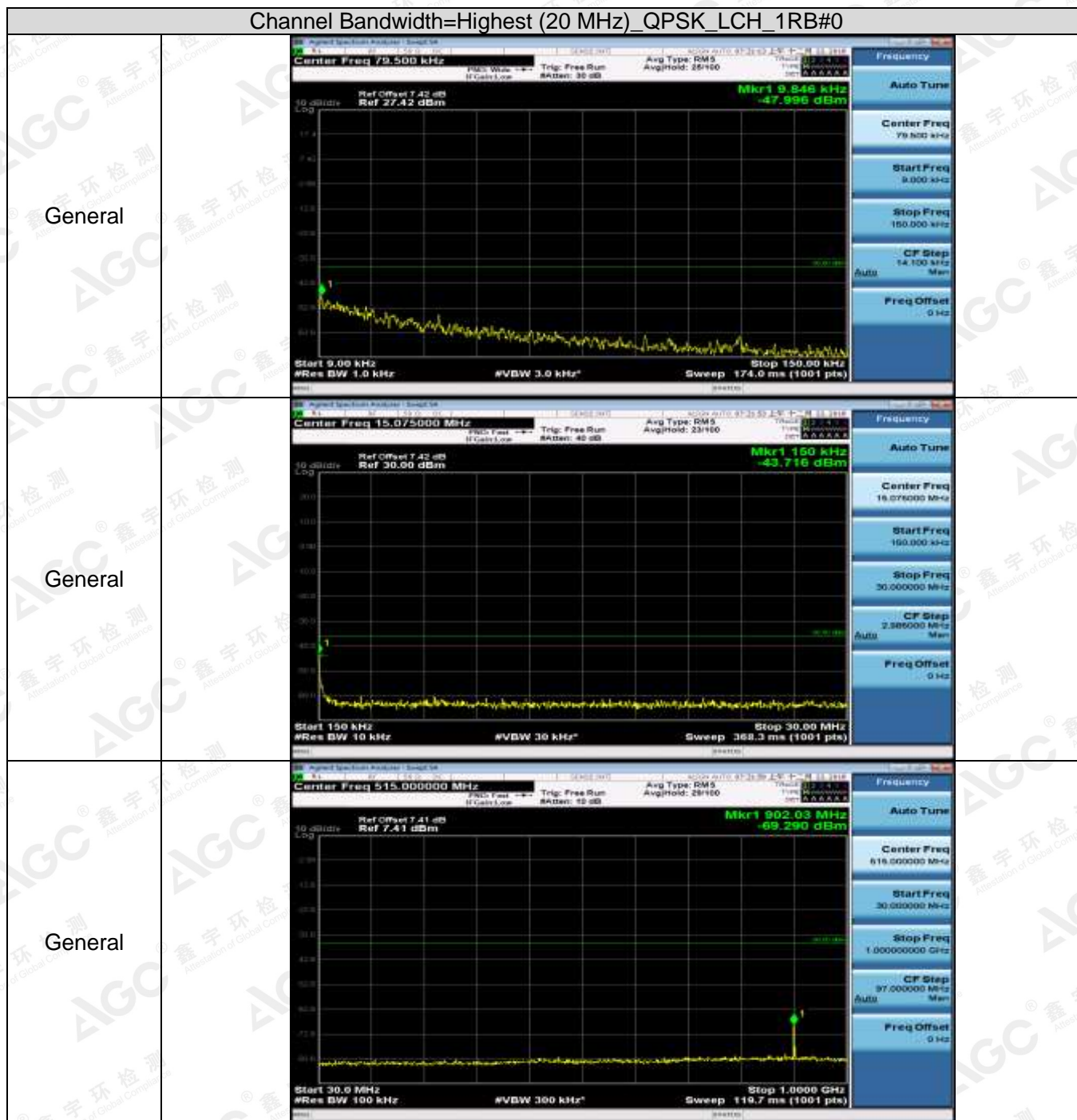
Co-existence	
Co-existence	
Co-existence	

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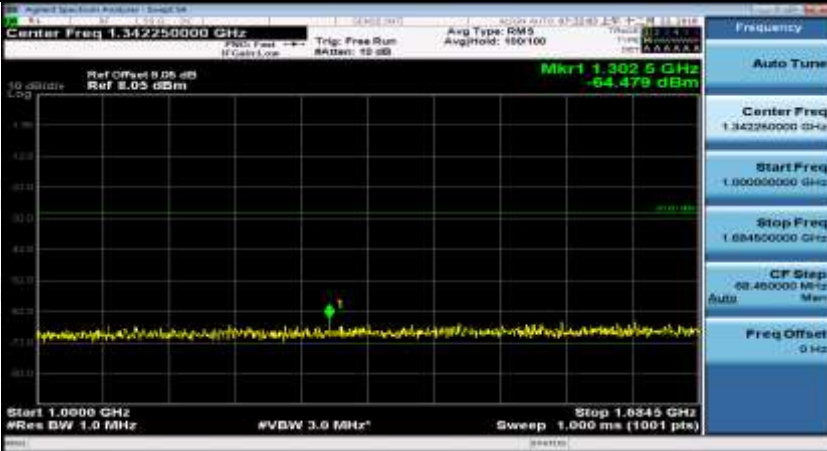

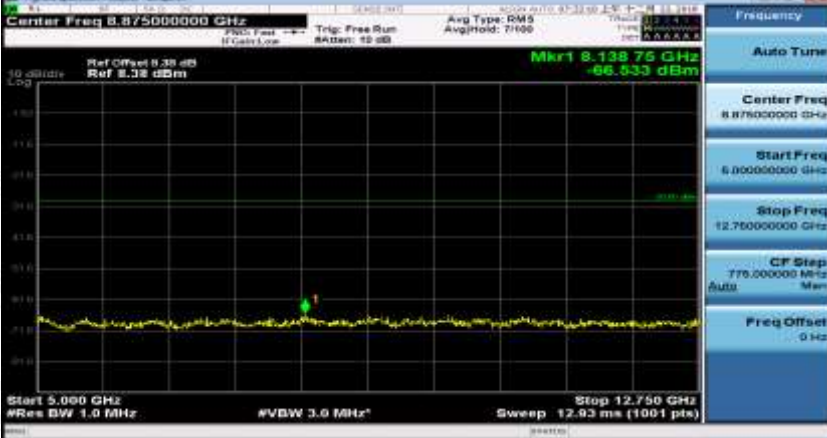
Co-existence	
Co-existence	
Additional	NA

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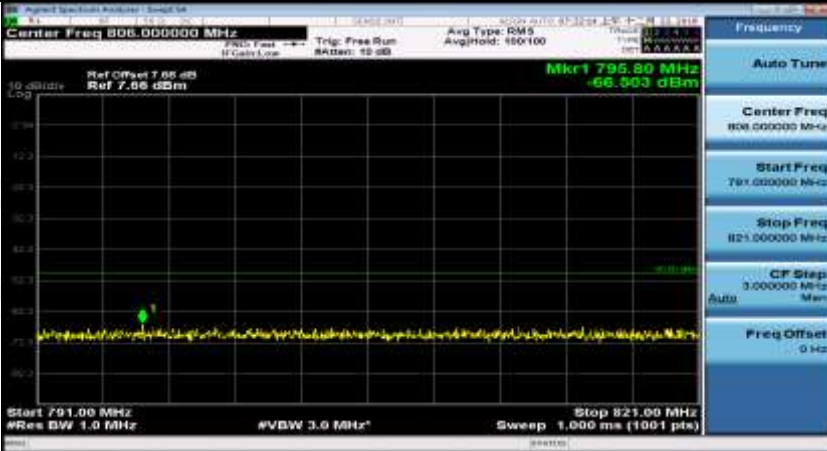
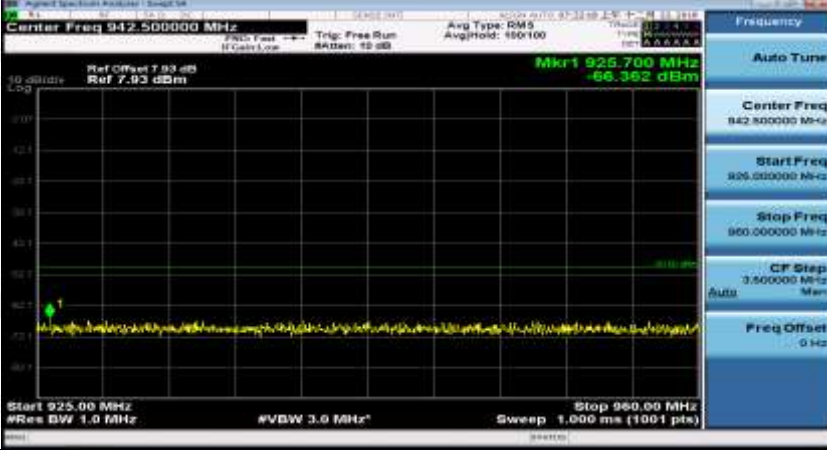
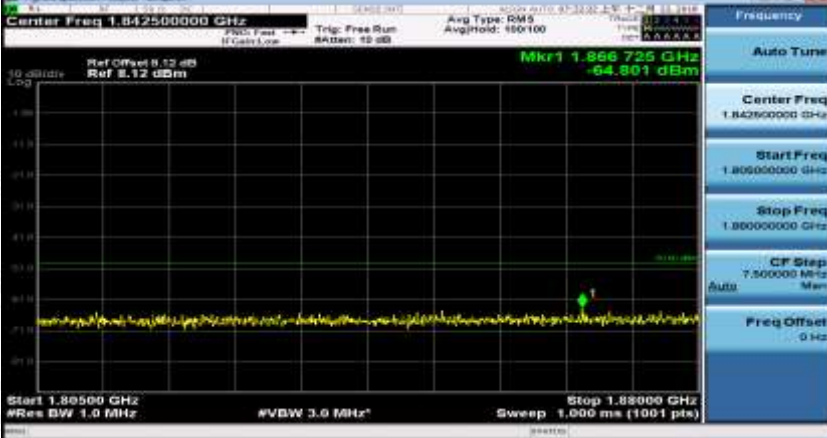
Channel Bandwidth= (20 MHz)



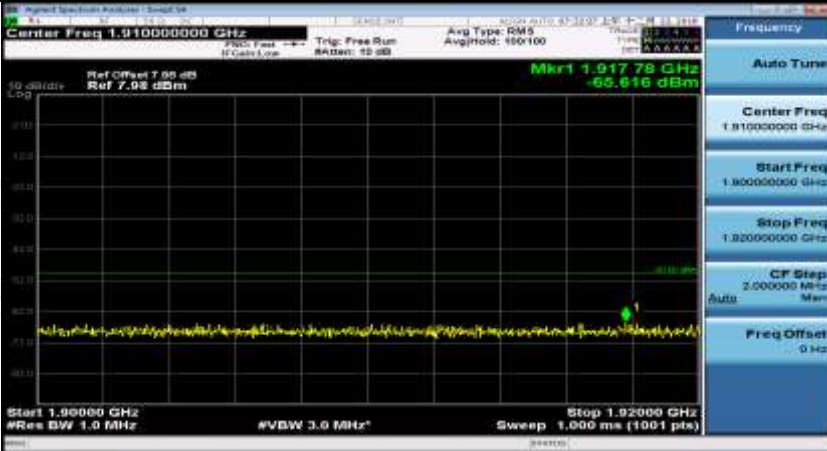
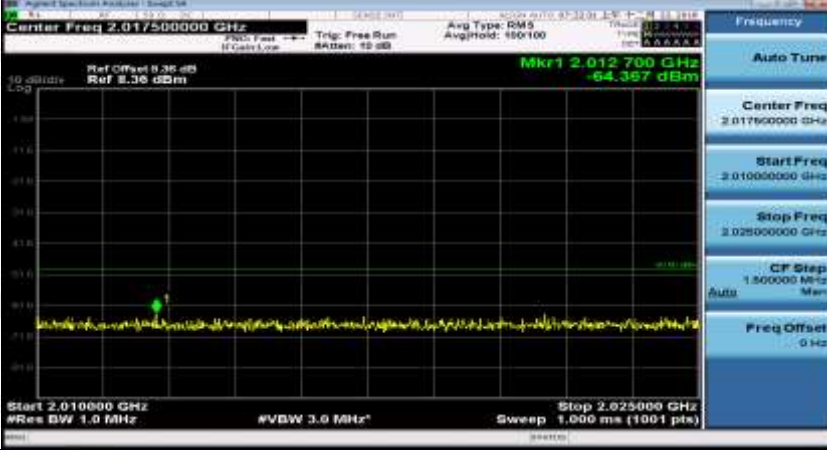
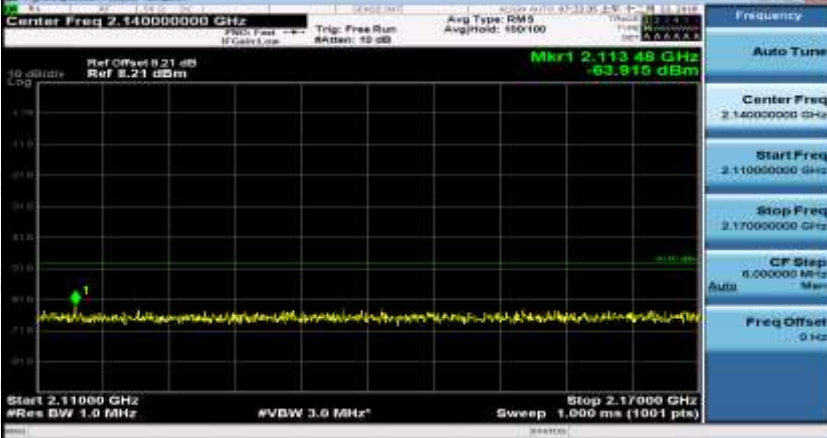
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General	
General	
General	

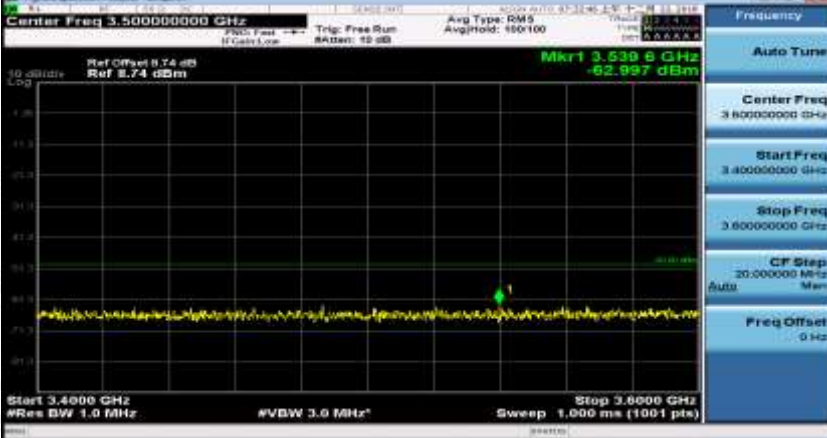
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

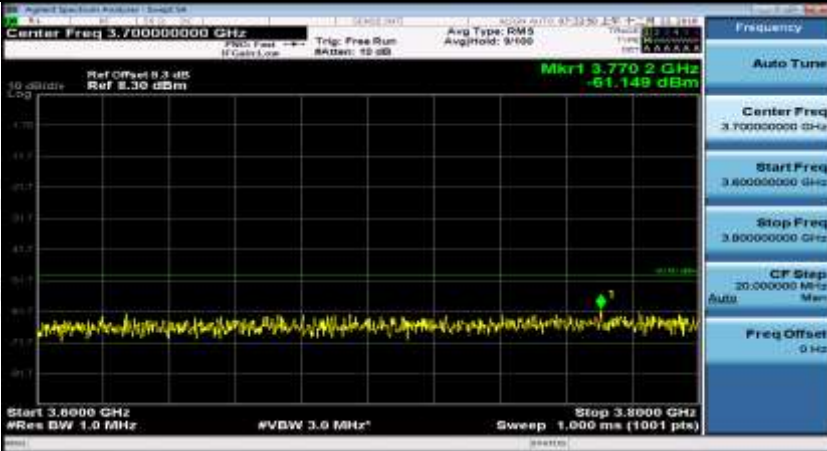
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	


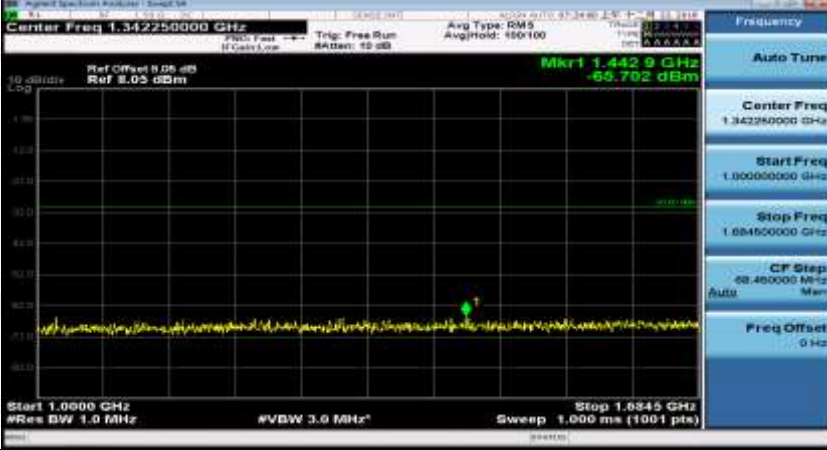
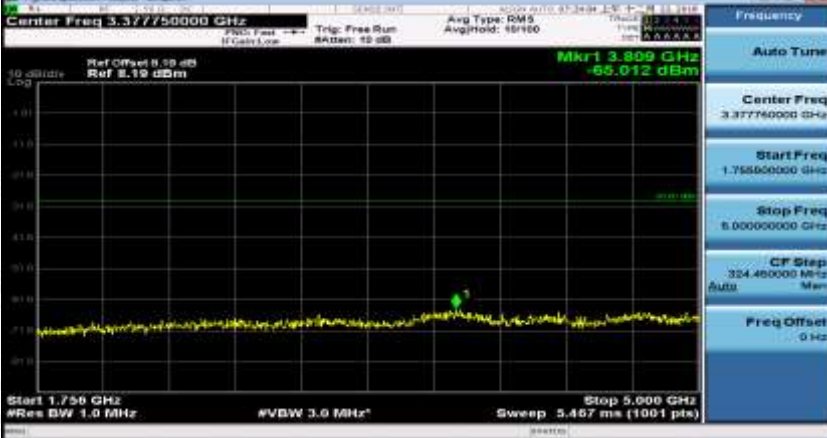
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Co-existence	
Additional	NA


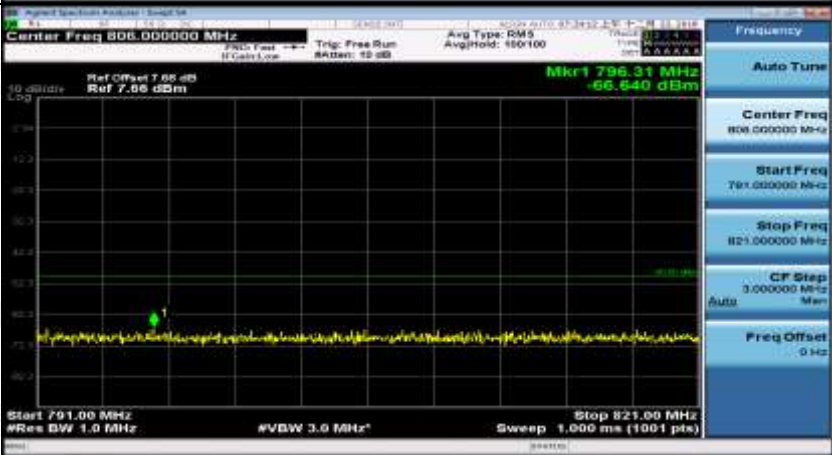

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max

General	
General	

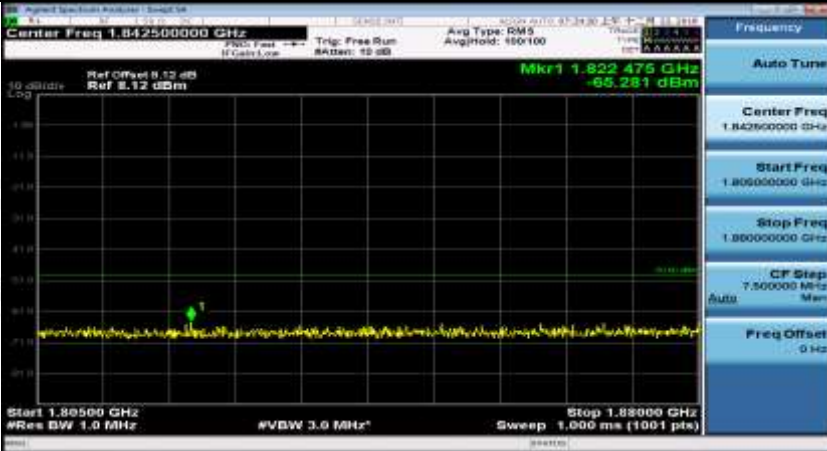
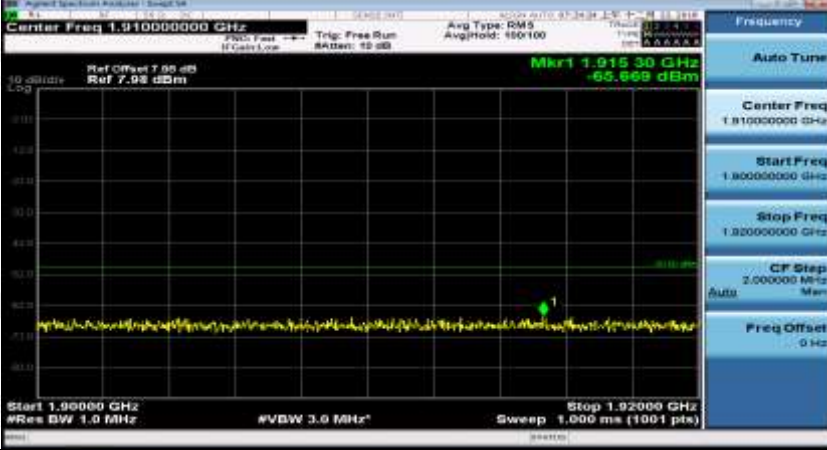

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General	
General	
General	

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General	
Co-existence	
Co-existence	

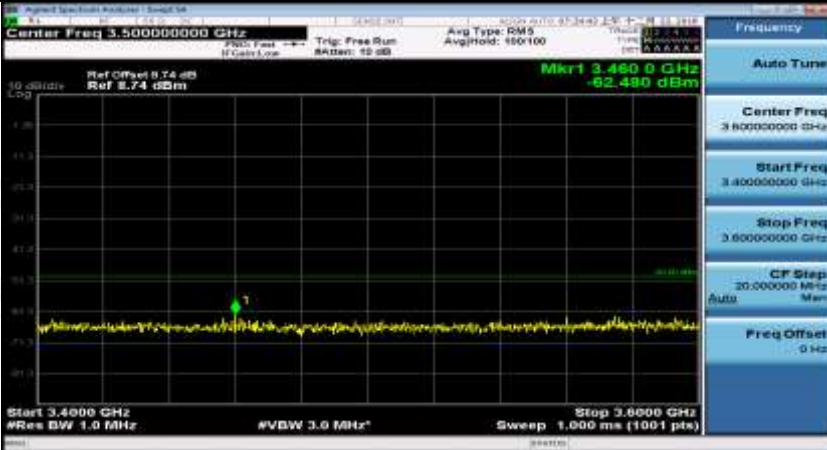
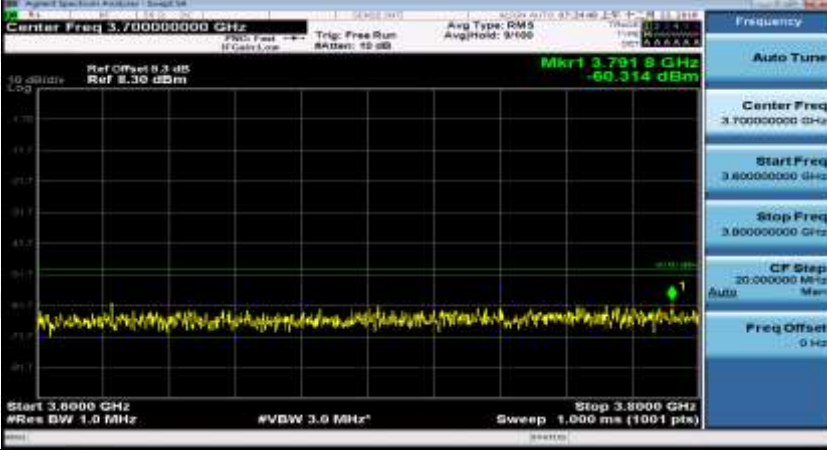
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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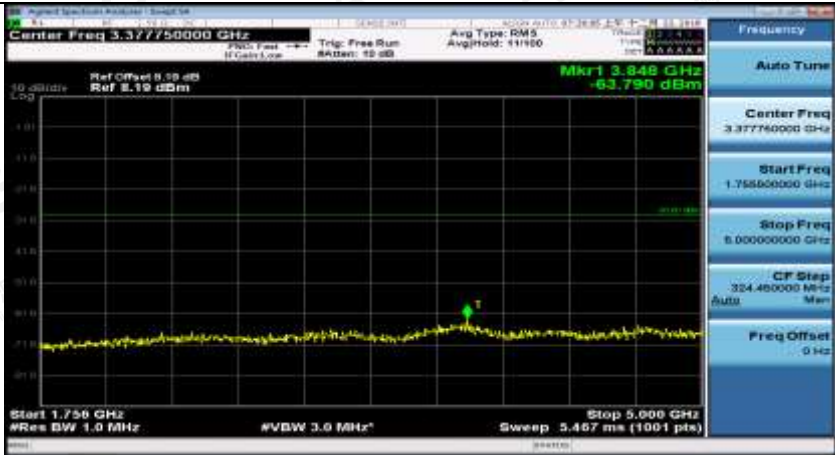

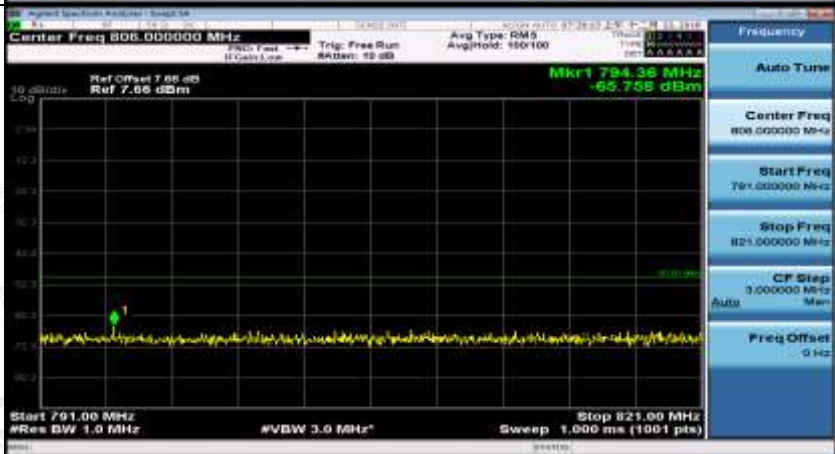
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

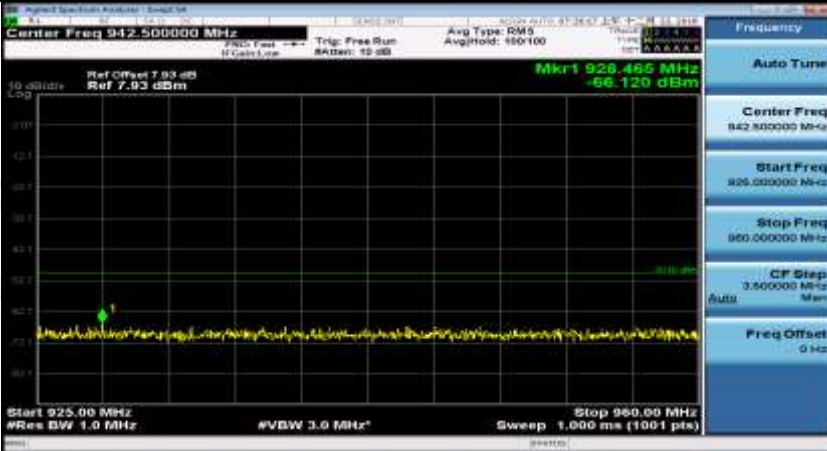
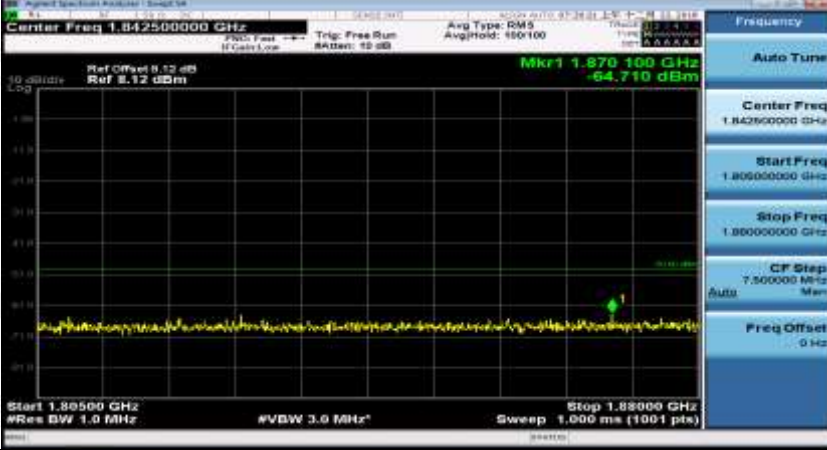
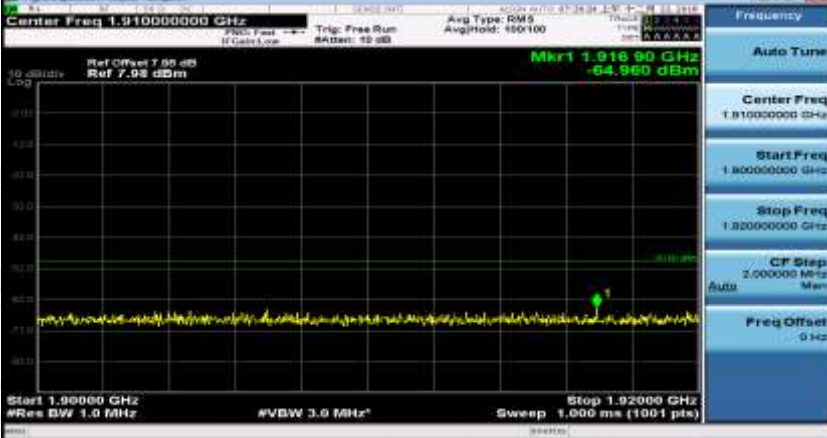
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General			
General			
General			

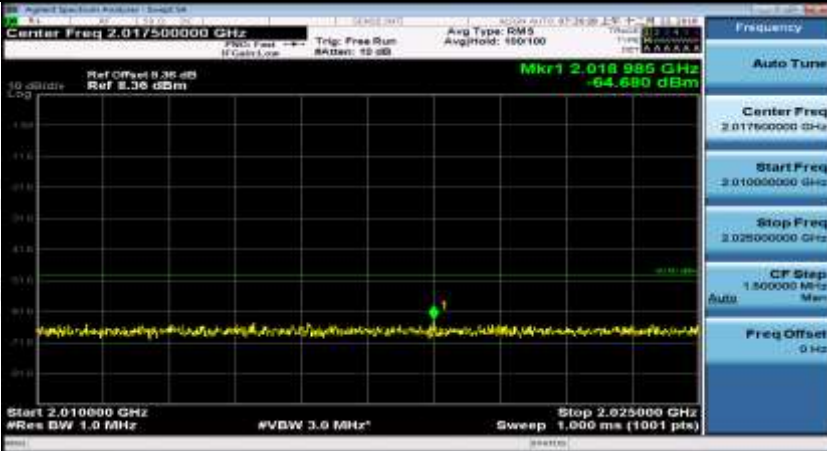
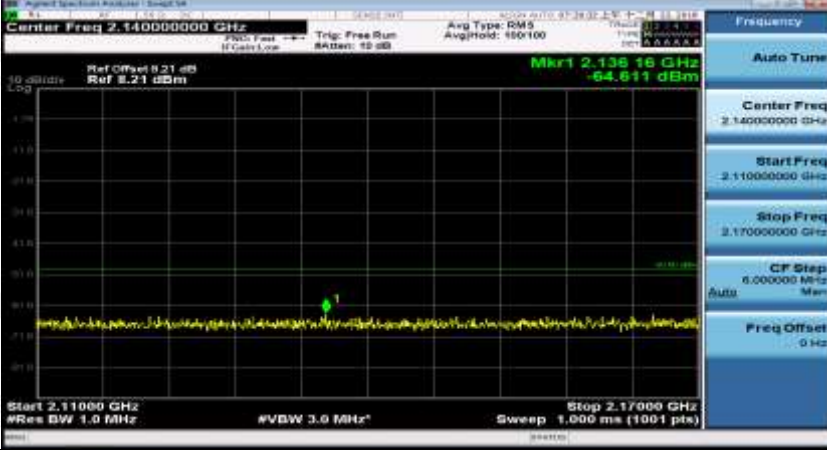
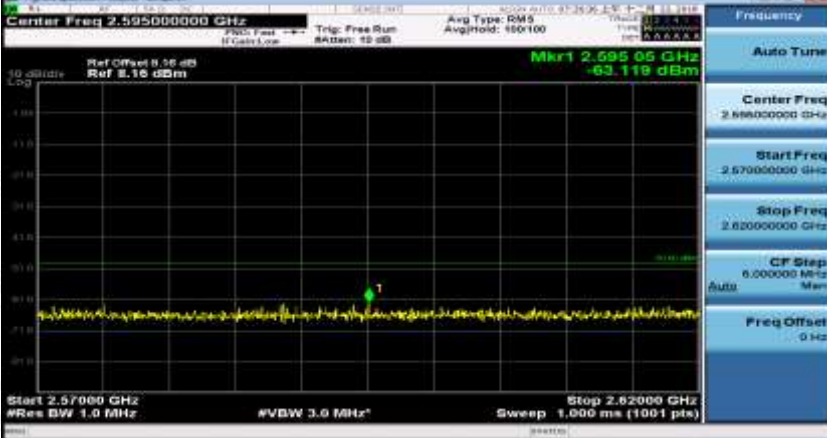
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.37750000 GHz</p> <p>Start Freq 1.75000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 324.400000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

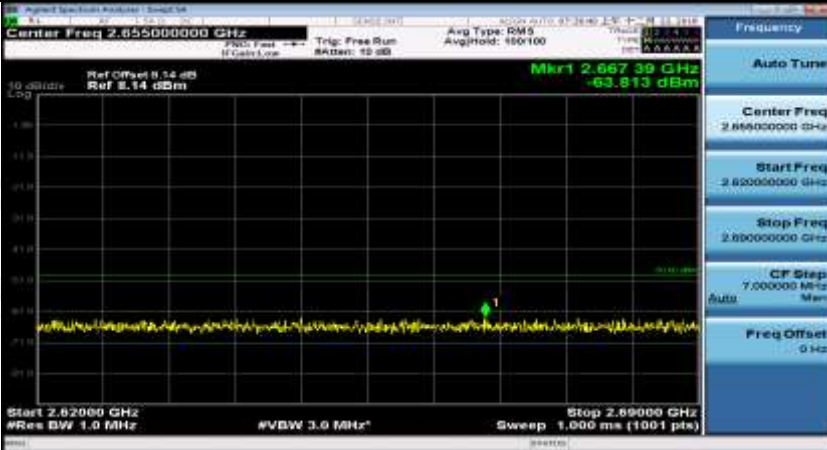
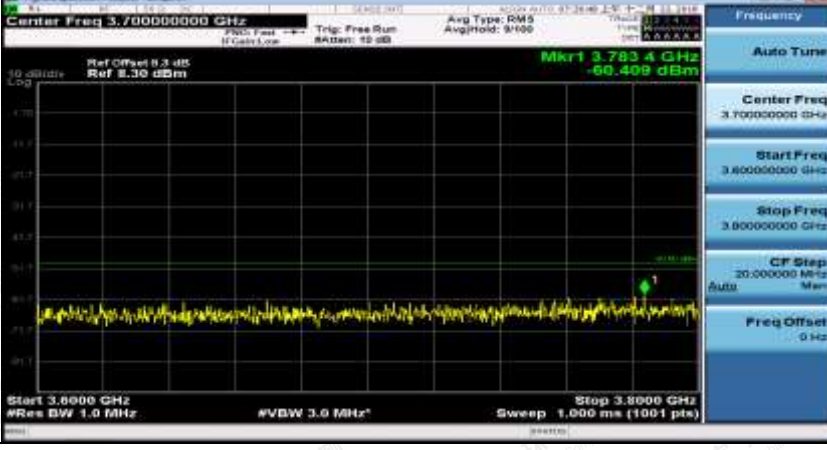
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Co-existence	
Co-existence	
Co-existence	

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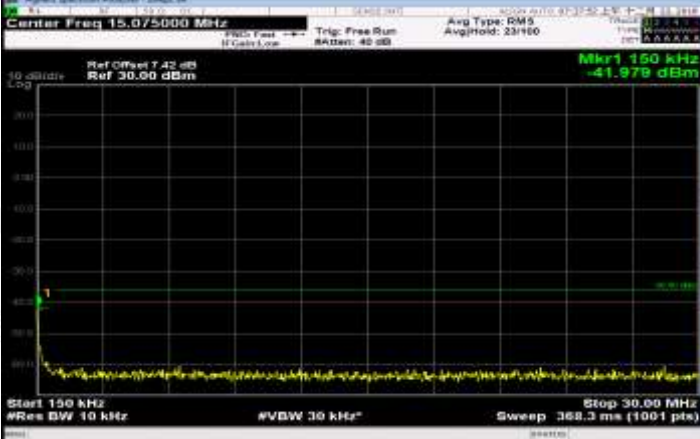
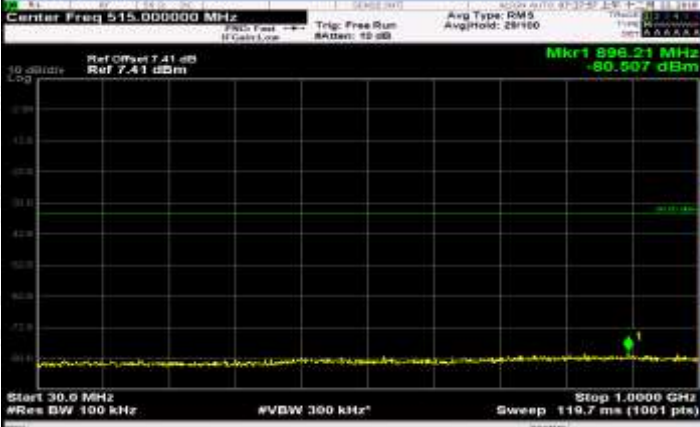
Co-existence	
Co-existence	
Co-existence	

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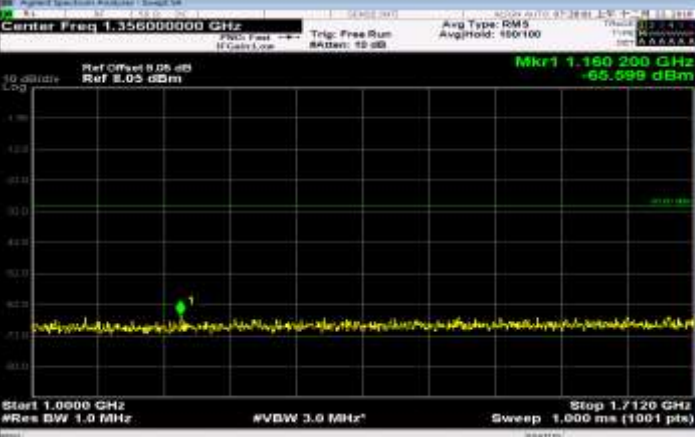


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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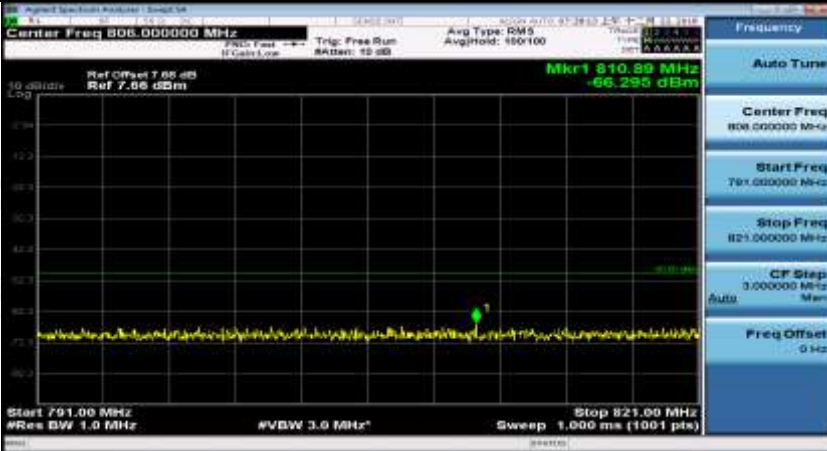
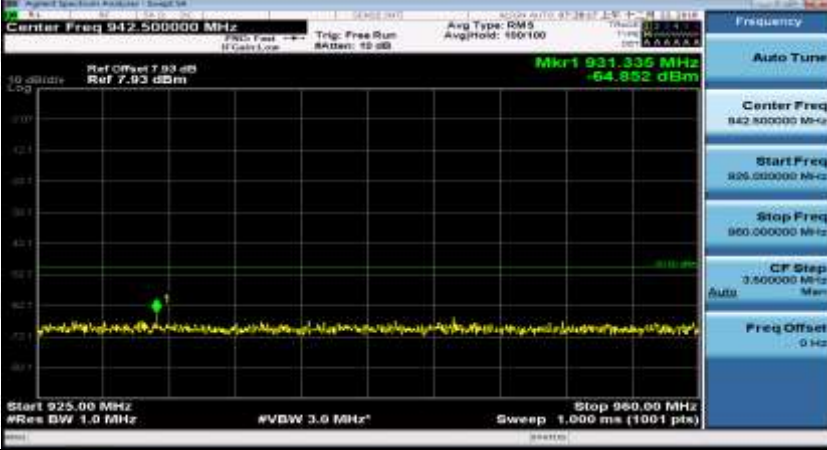
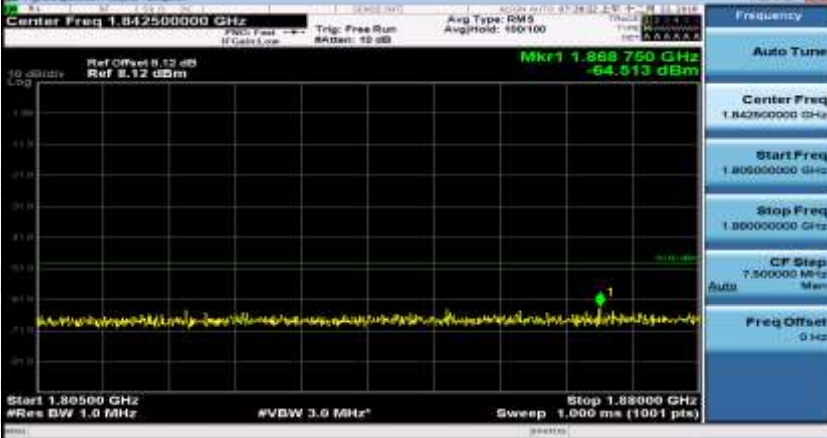
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

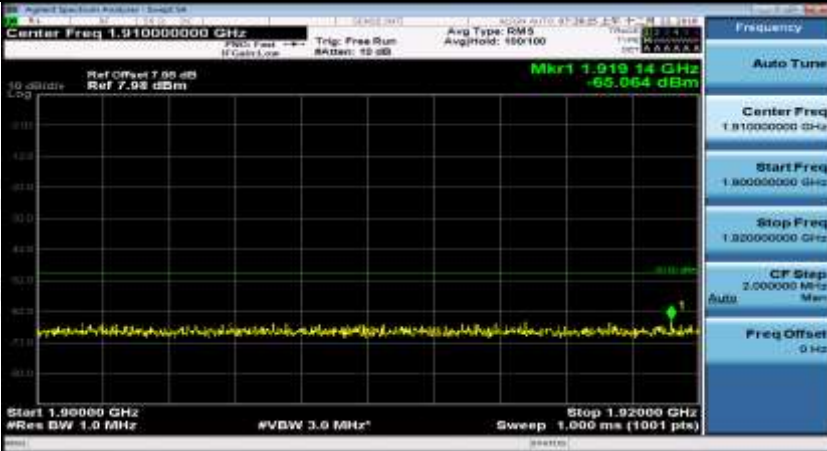
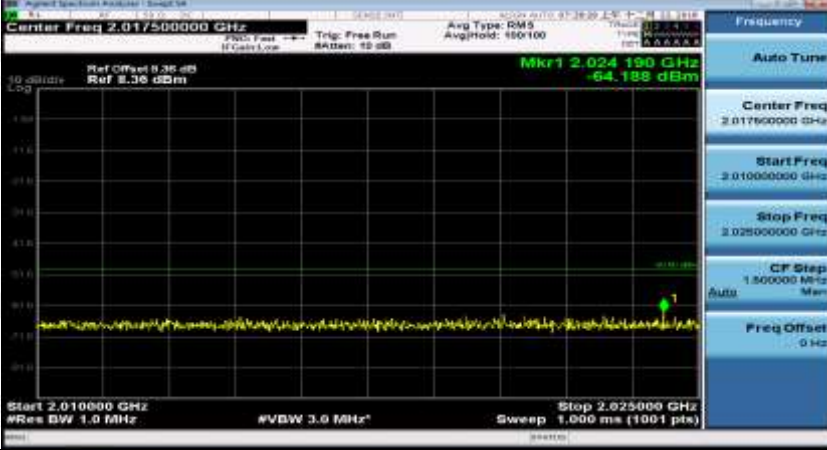
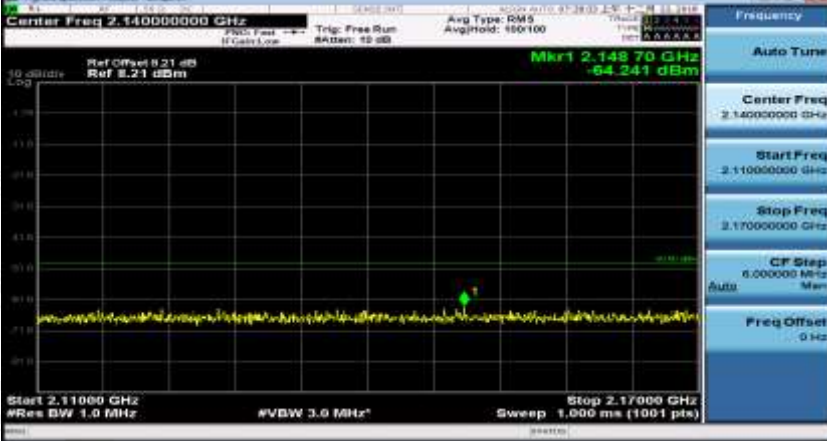
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.356000000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.712000000 GHz</p> <p>CF Step 71.2000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.391500000 GHz</p> <p>Start Freq 1.783000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 321.7000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 6.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.0000000 MHz</p> <p>Freq Offset 0 Hz</p>

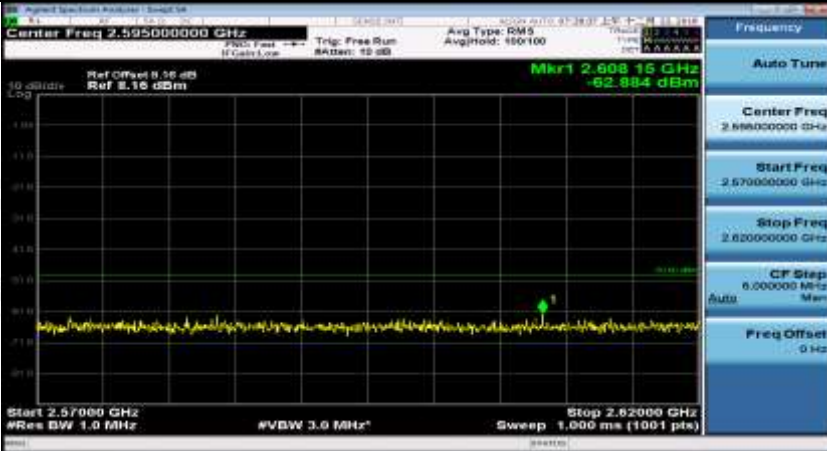
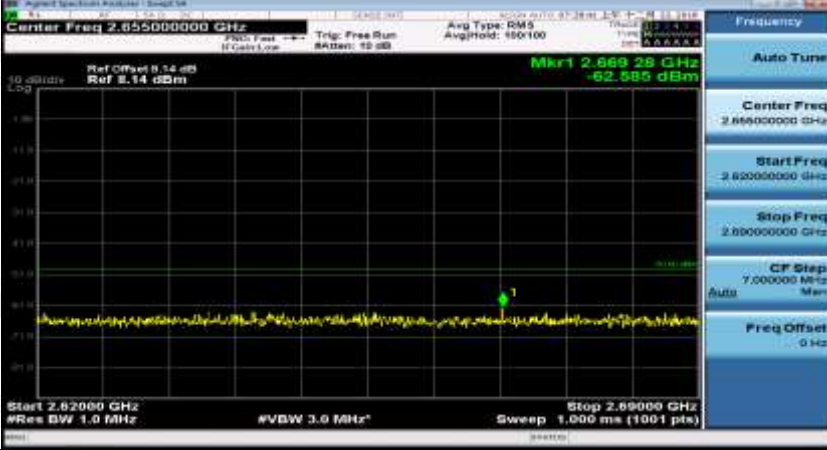
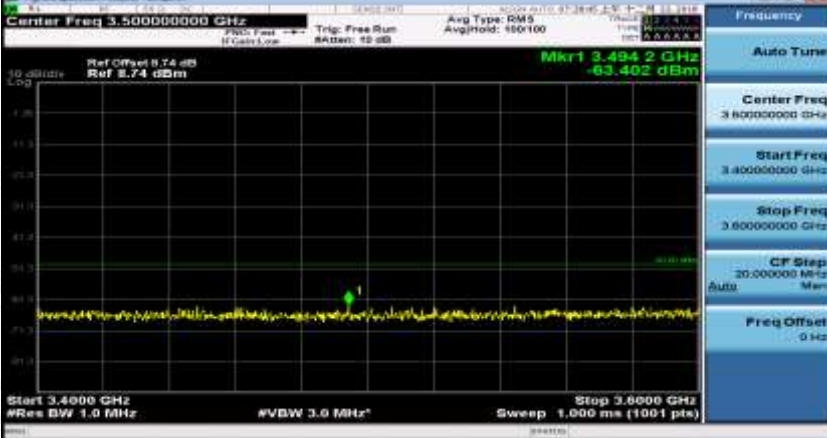
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Co-existence	
Co-existence	
Co-existence	

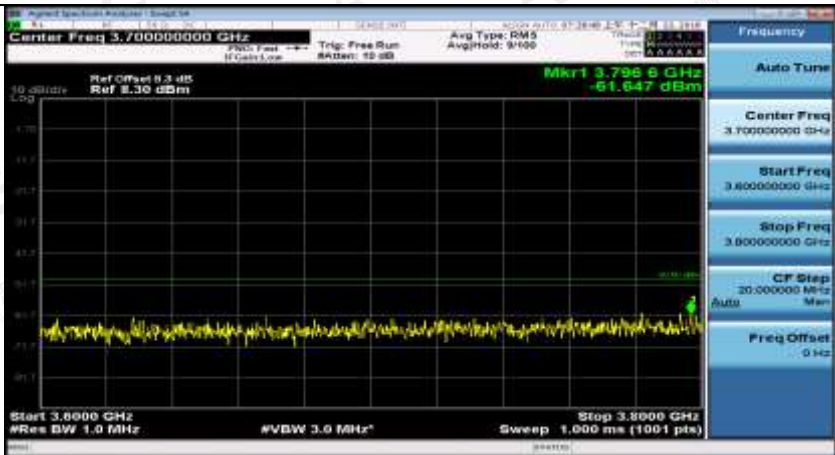
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Co-existence	
Co-existence	
Co-existence	

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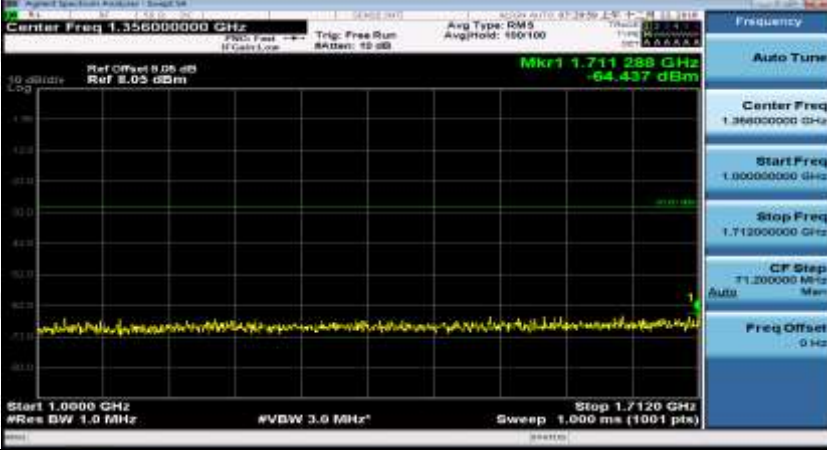
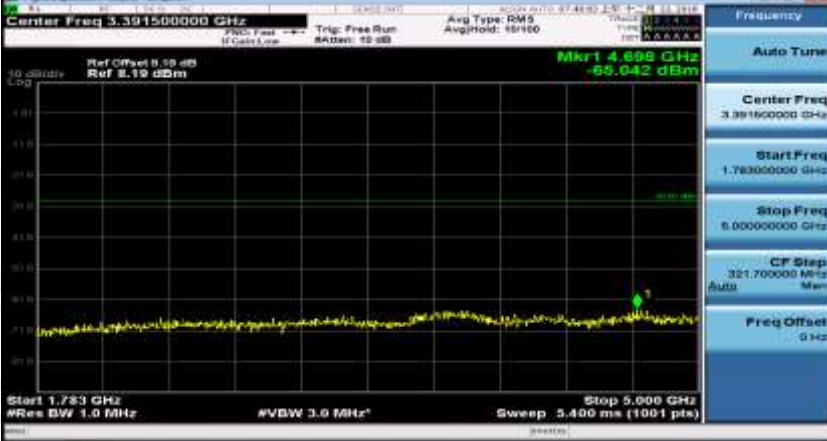
Co-existence	
Co-existence	
Co-existence	

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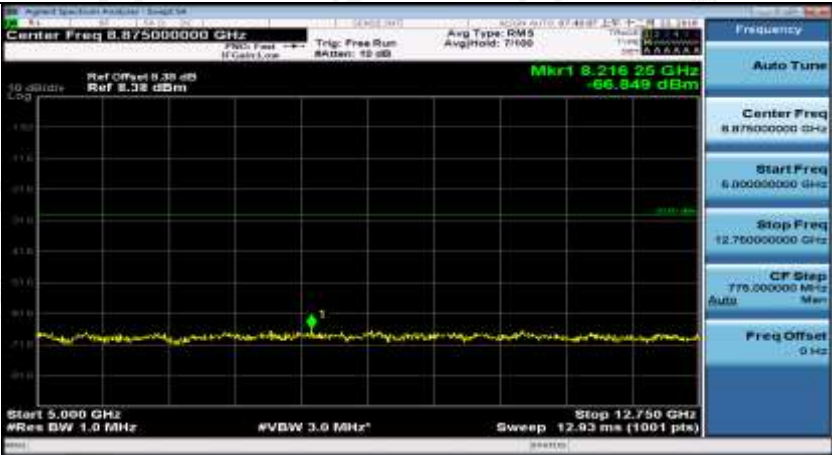


Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	
General	

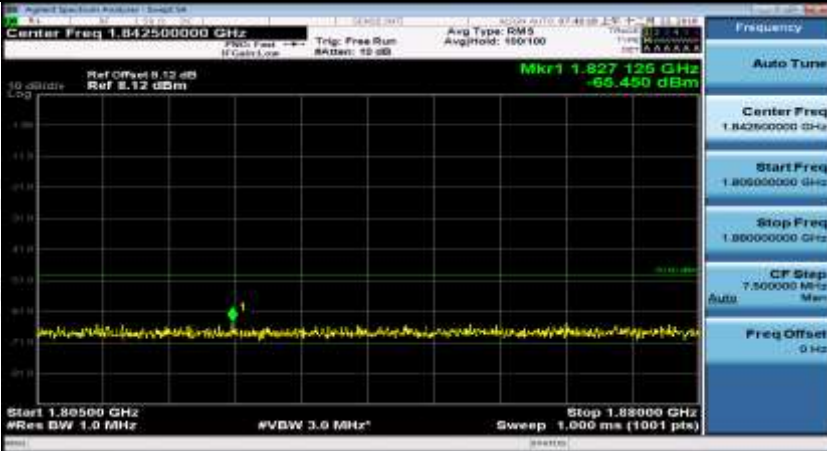
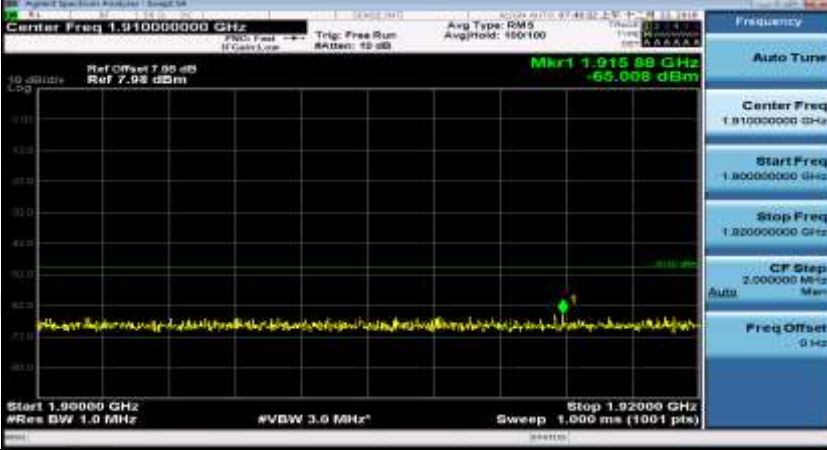

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General	
General	
General	

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General	
Co-existence	
Co-existence	

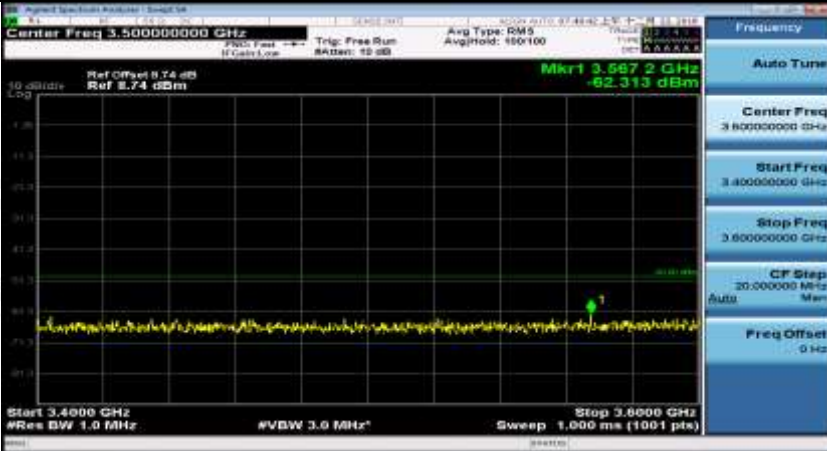
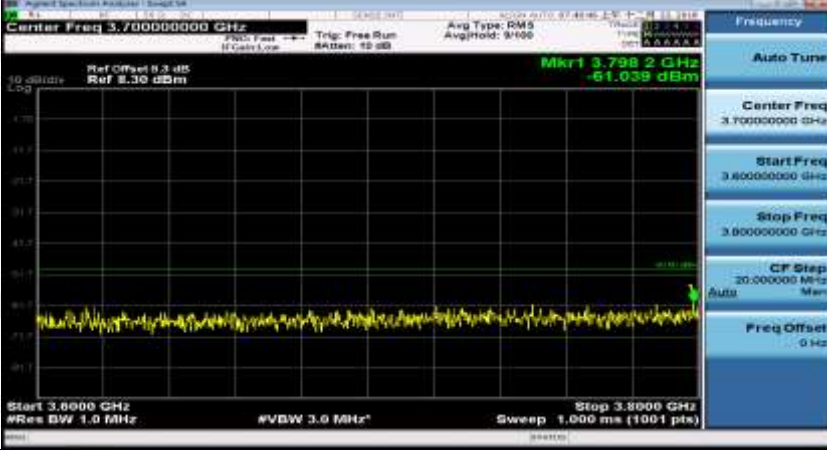
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

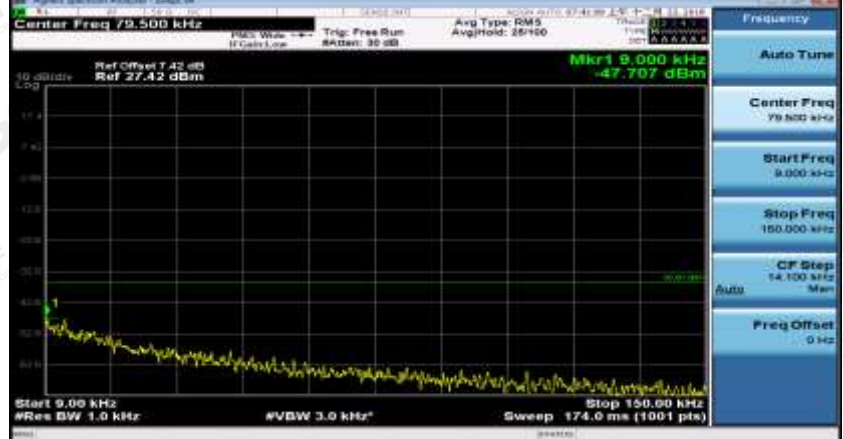
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	



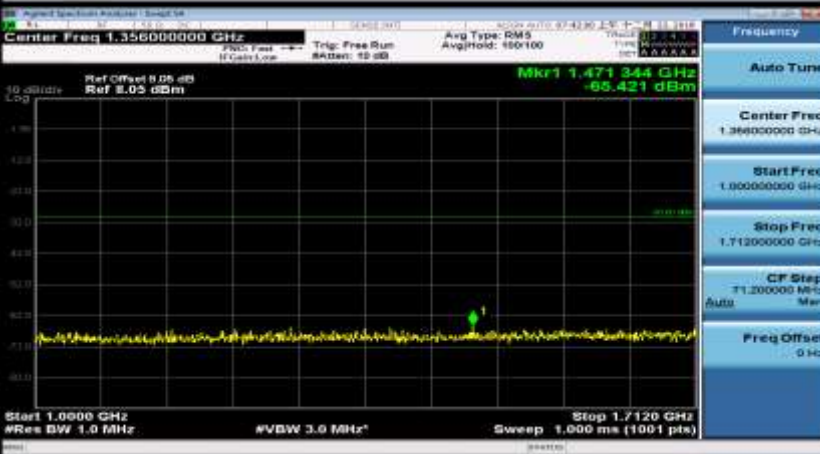
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullIRB#0

General	
---------	--------------------------------------------------------------------------------------

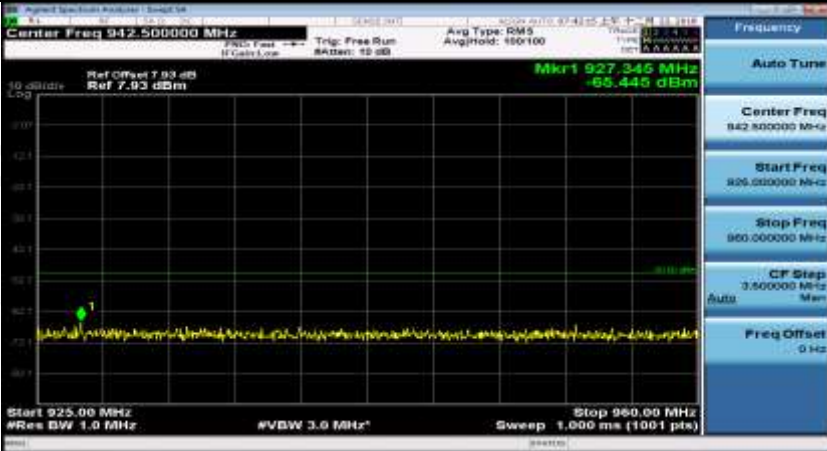
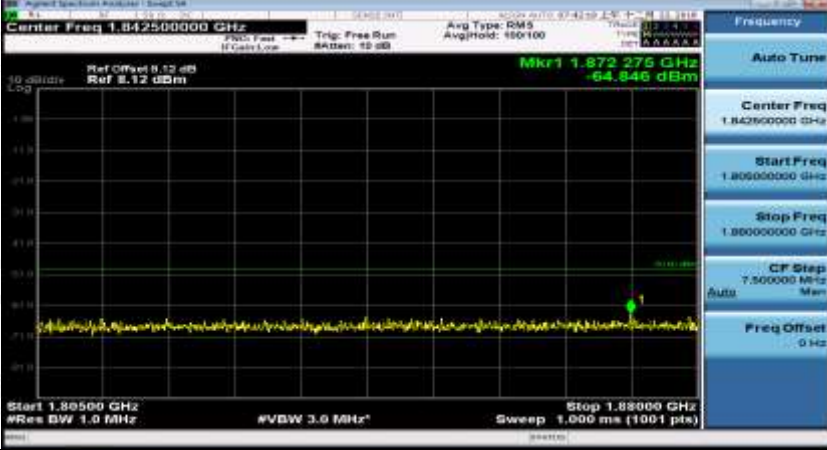
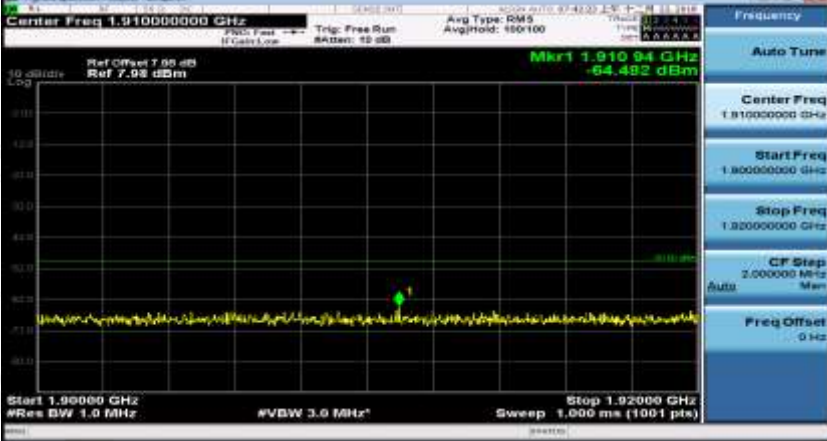
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General		
General		
General		

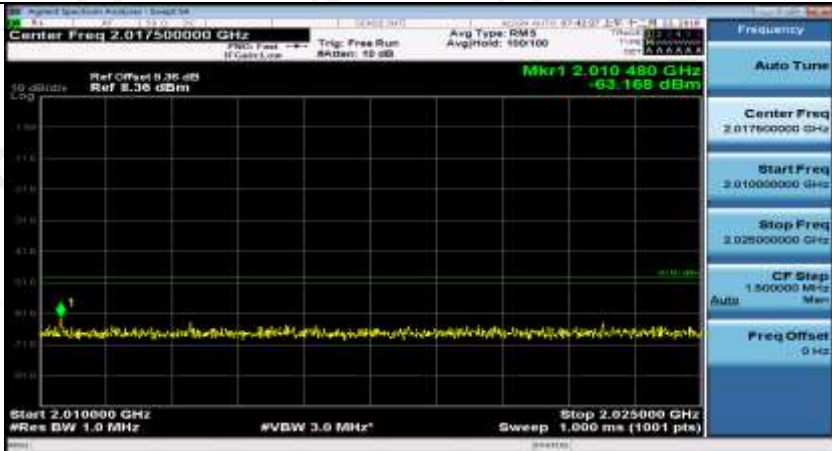
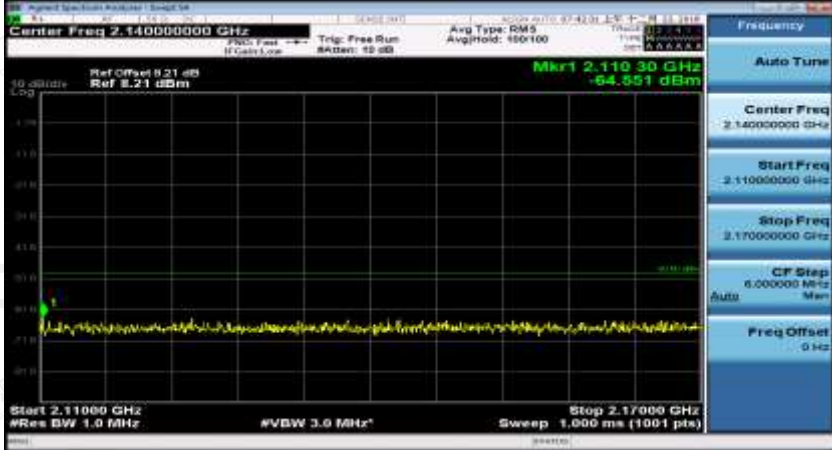

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General	
General	
Co-existence	

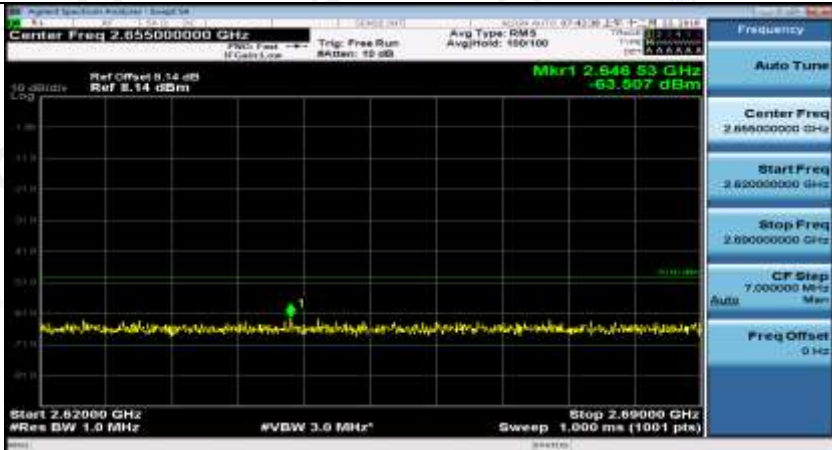

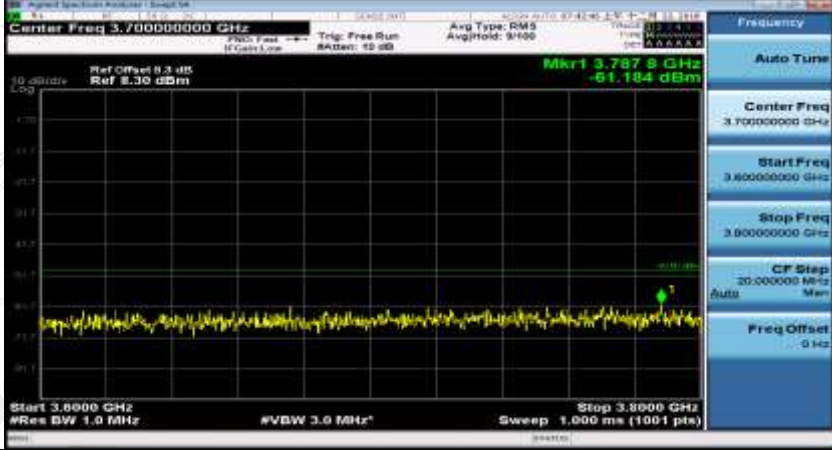
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Co-existence	
Co-existence	
Co-existence	

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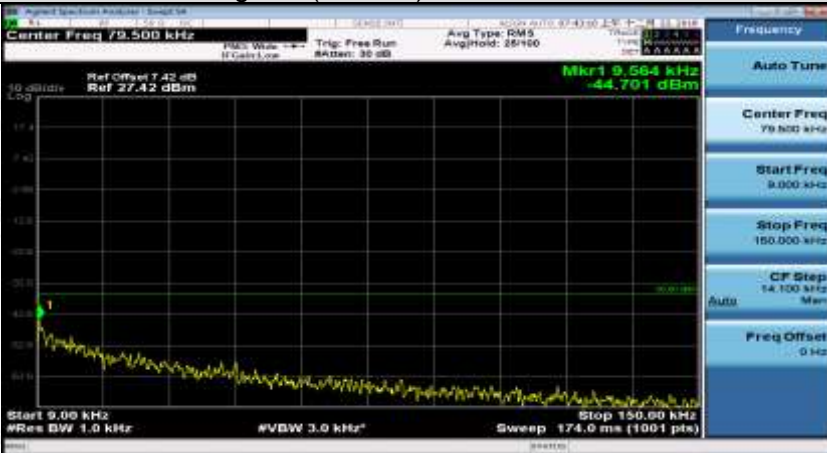

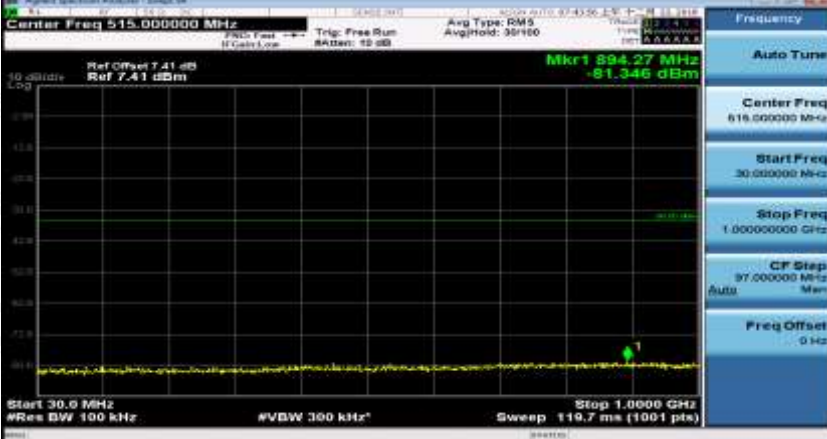
Co-existence	
Co-existence	
Co-existence	

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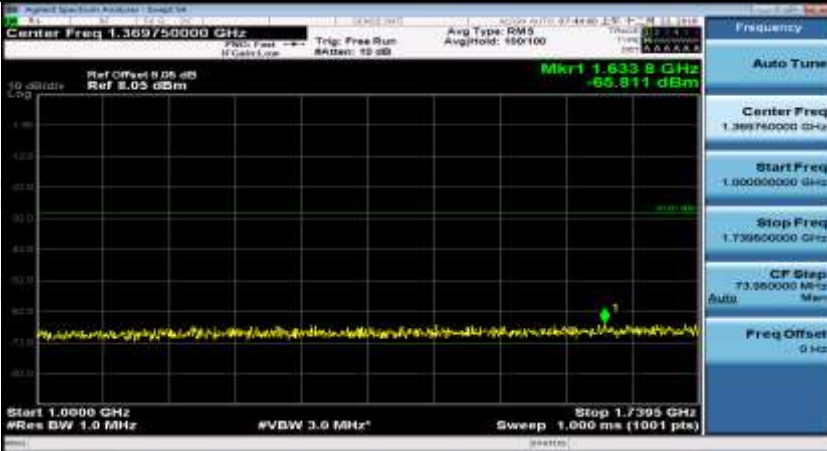
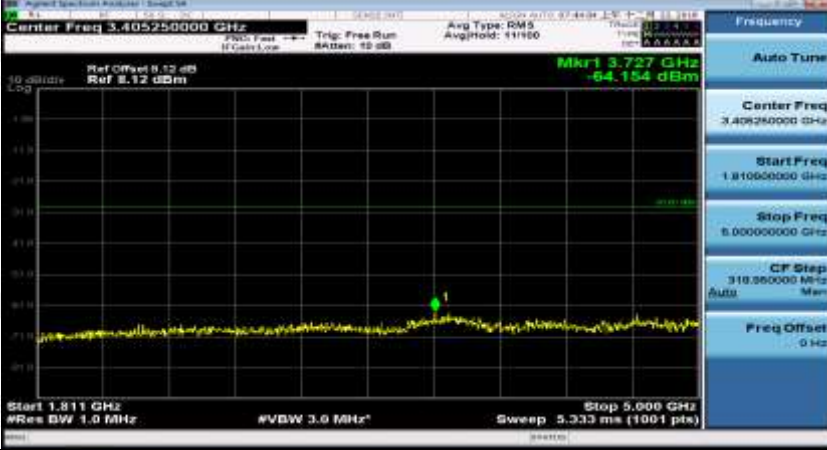

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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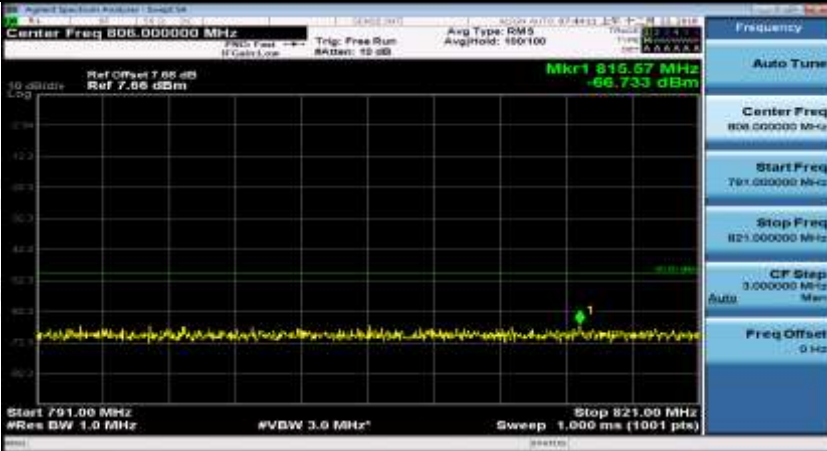
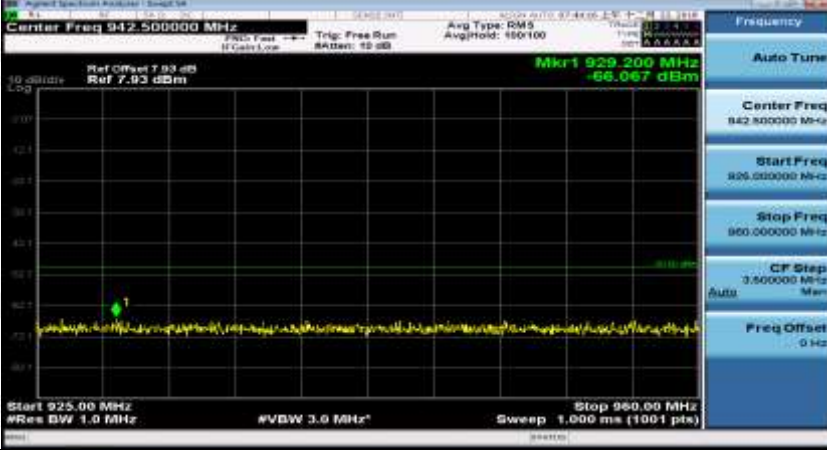
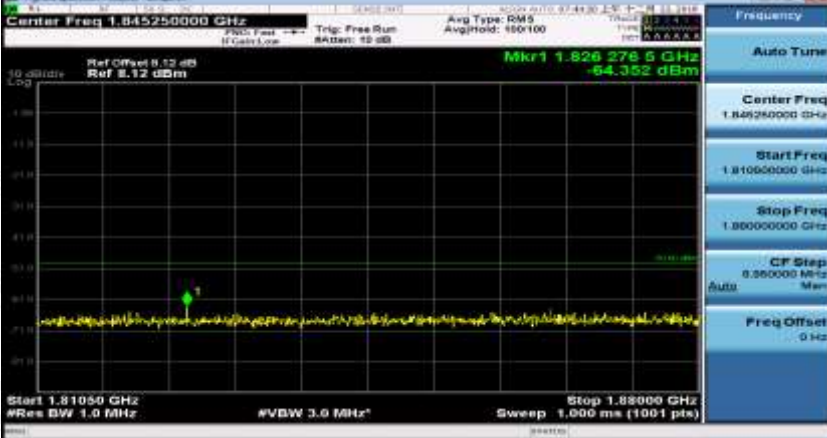
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

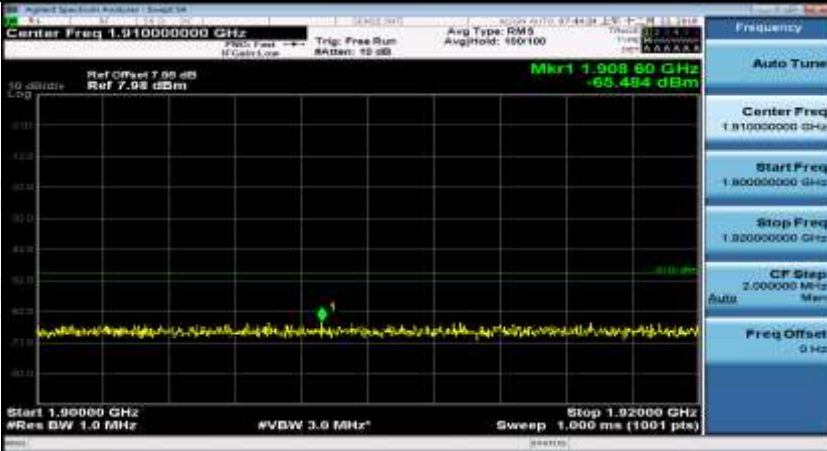
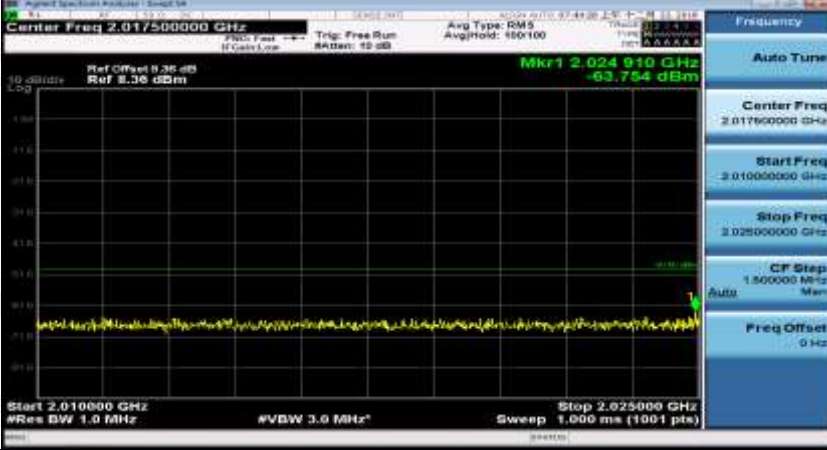
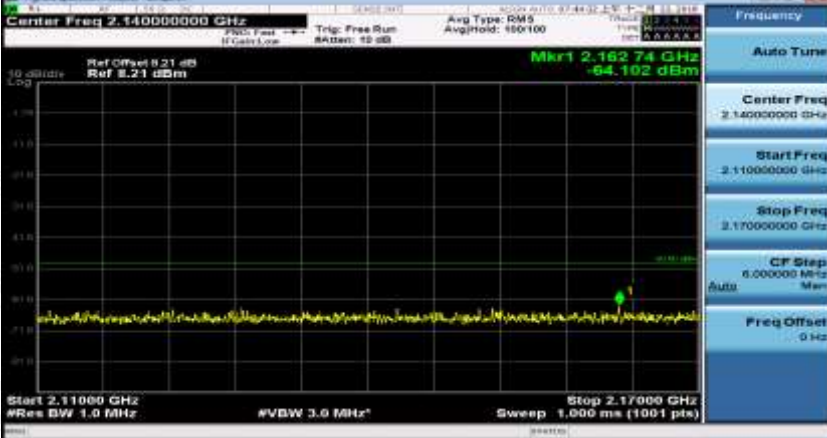
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General	
General	
General	

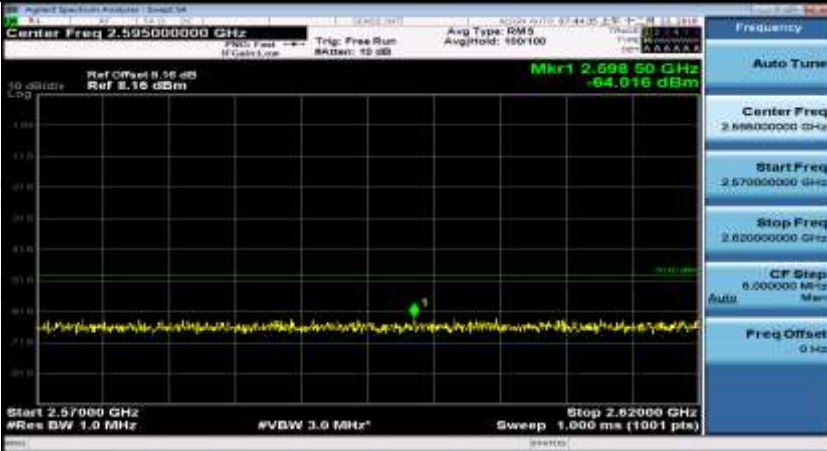
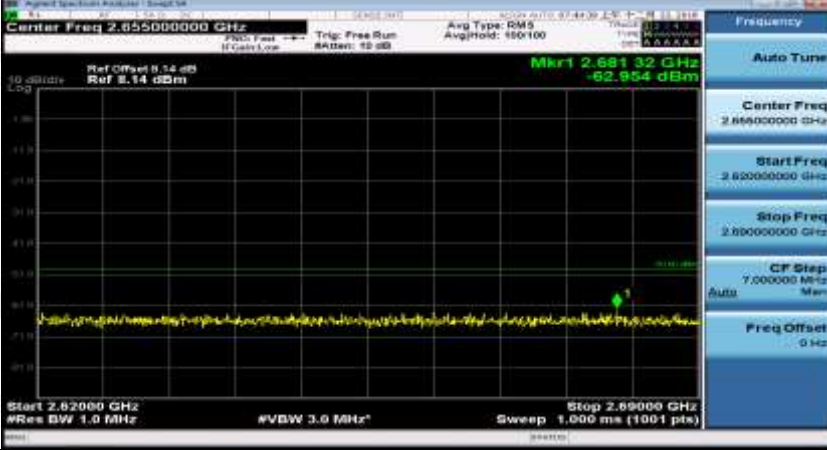
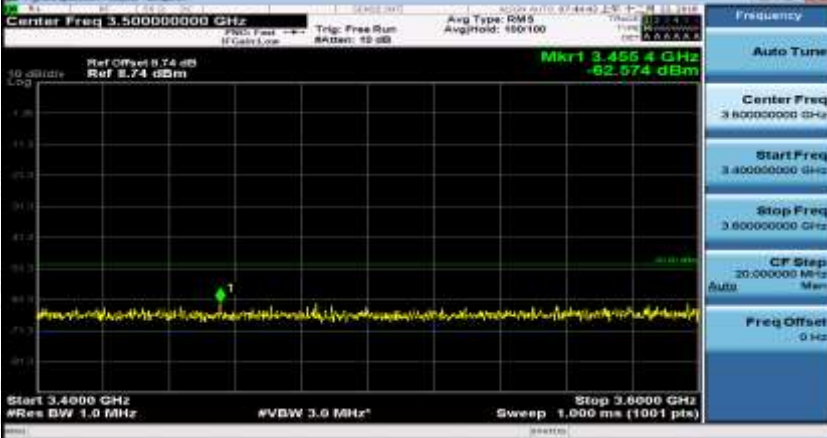
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Co-existence	
Co-existence	
Co-existence	

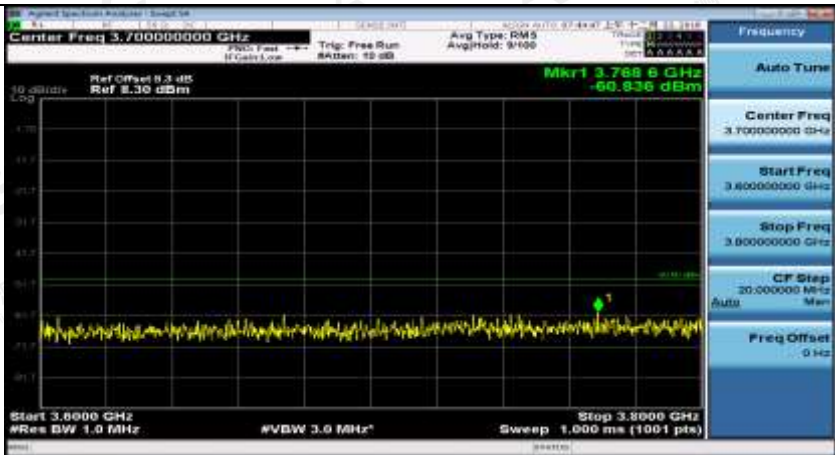
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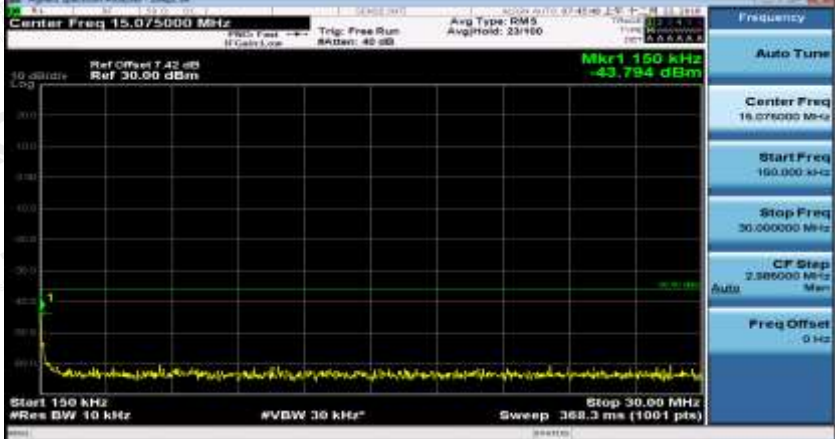
Co-existence	
Co-existence	
Co-existence	

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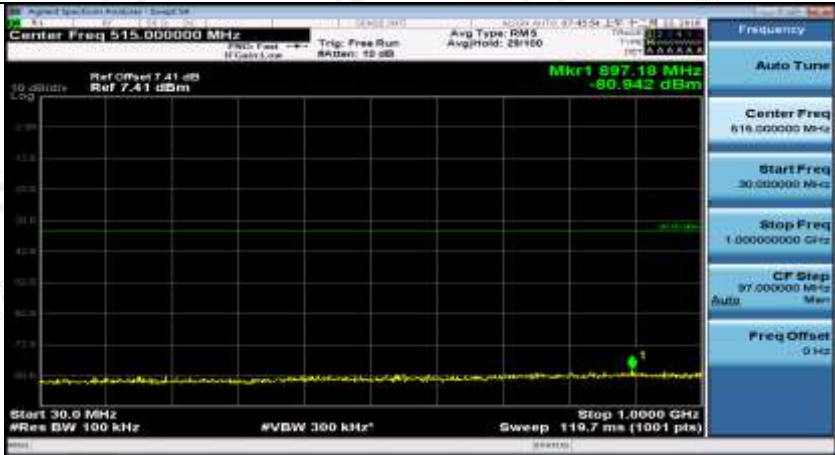
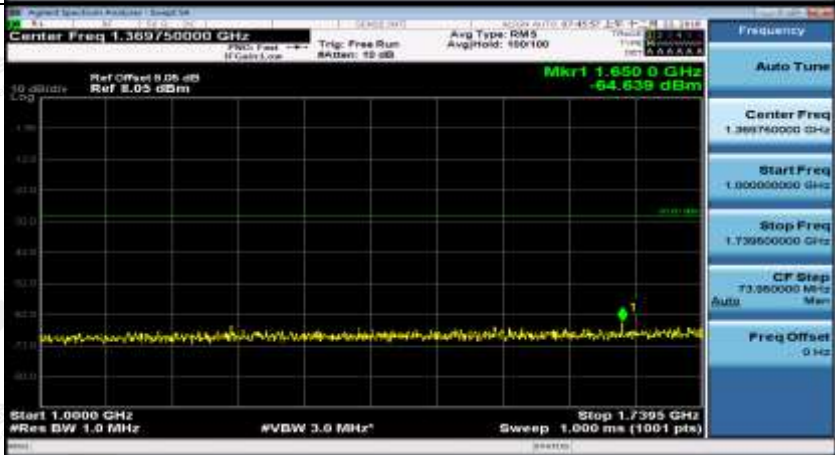

Co-existence	
Co-existence	
Co-existence	

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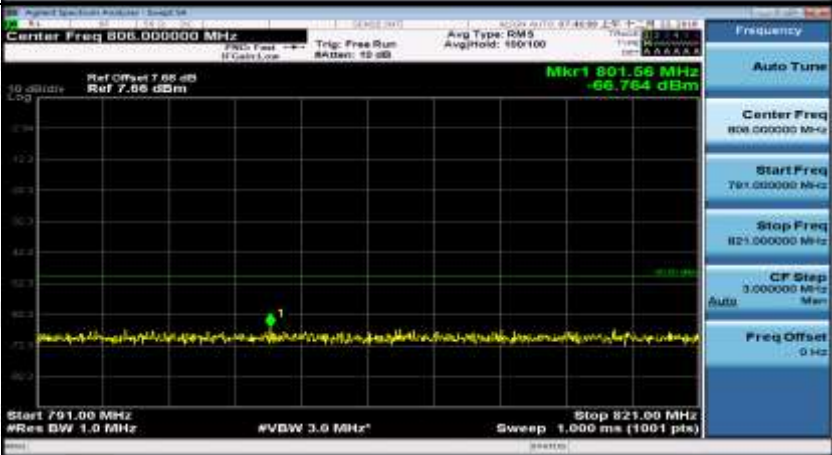
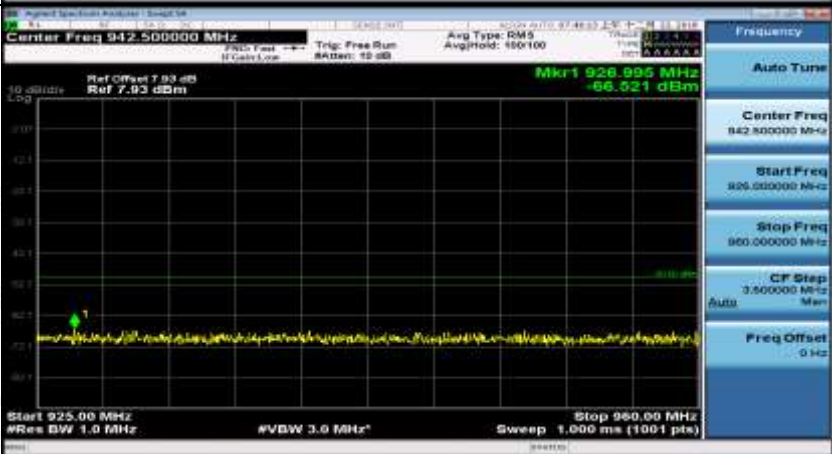
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	
General	

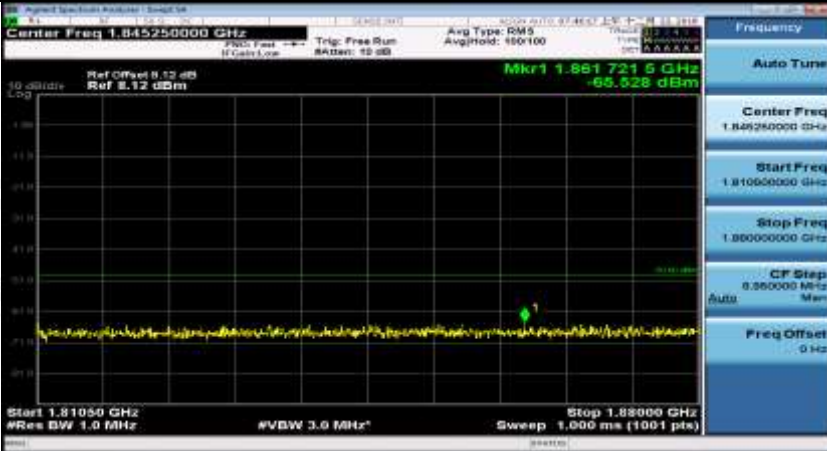
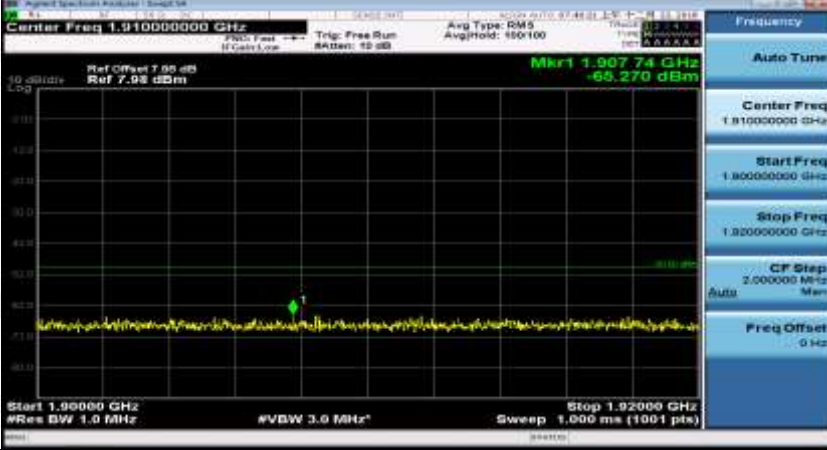

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General			
General			
General			



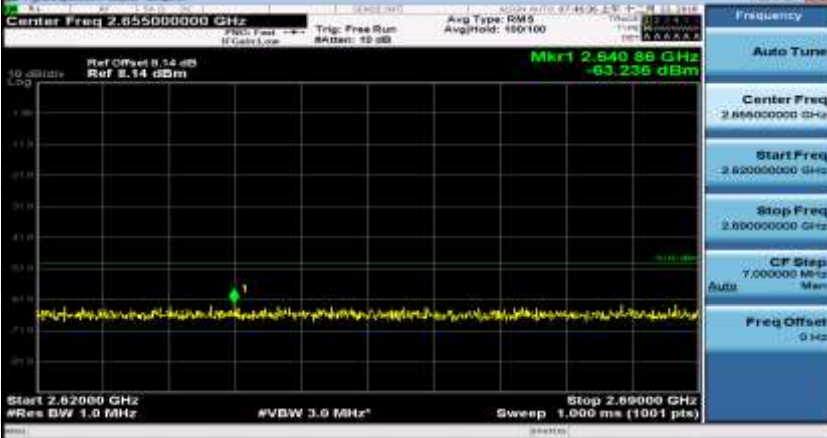
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General	
Co-existence	
Co-existence	

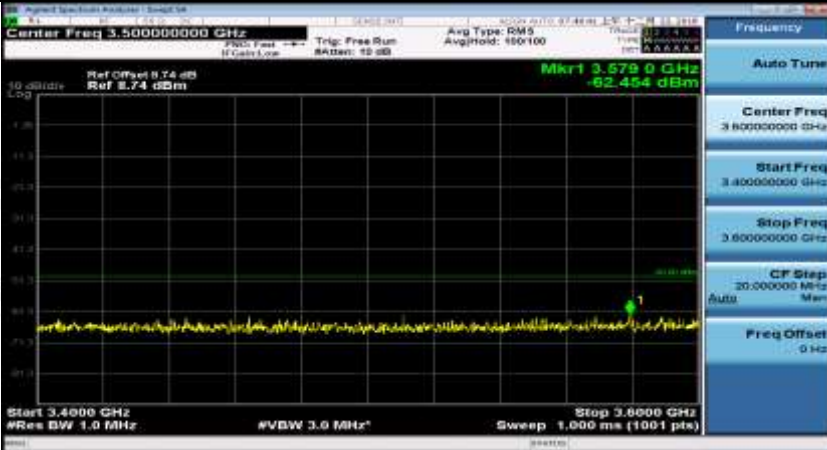
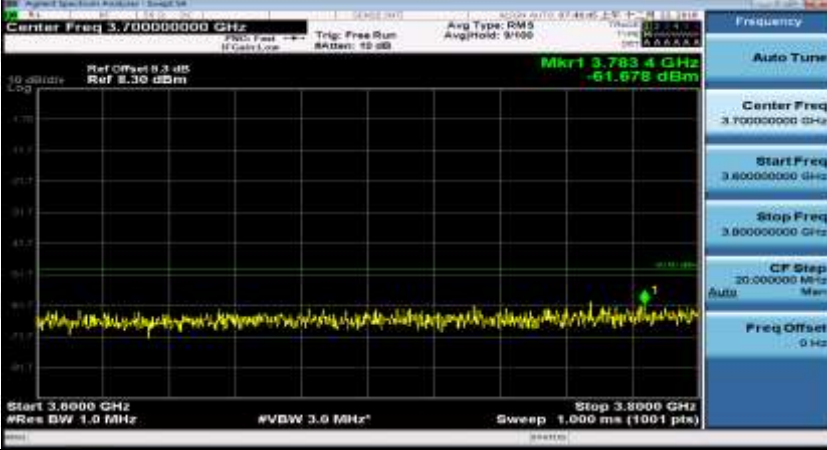
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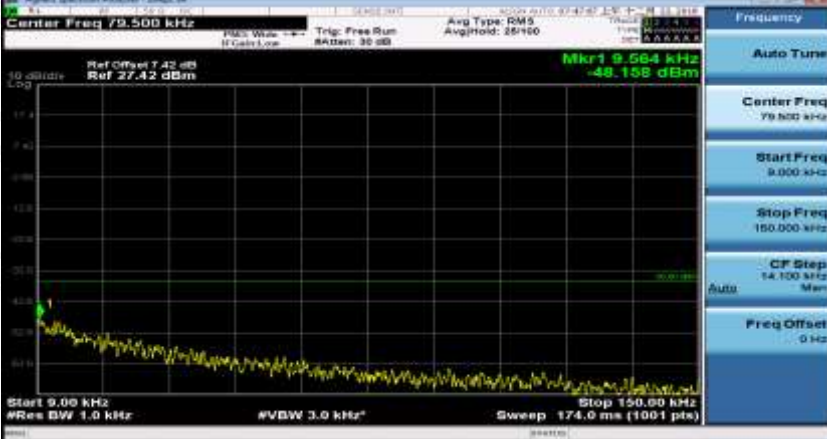
Co-existence	
Co-existence	
Co-existence	

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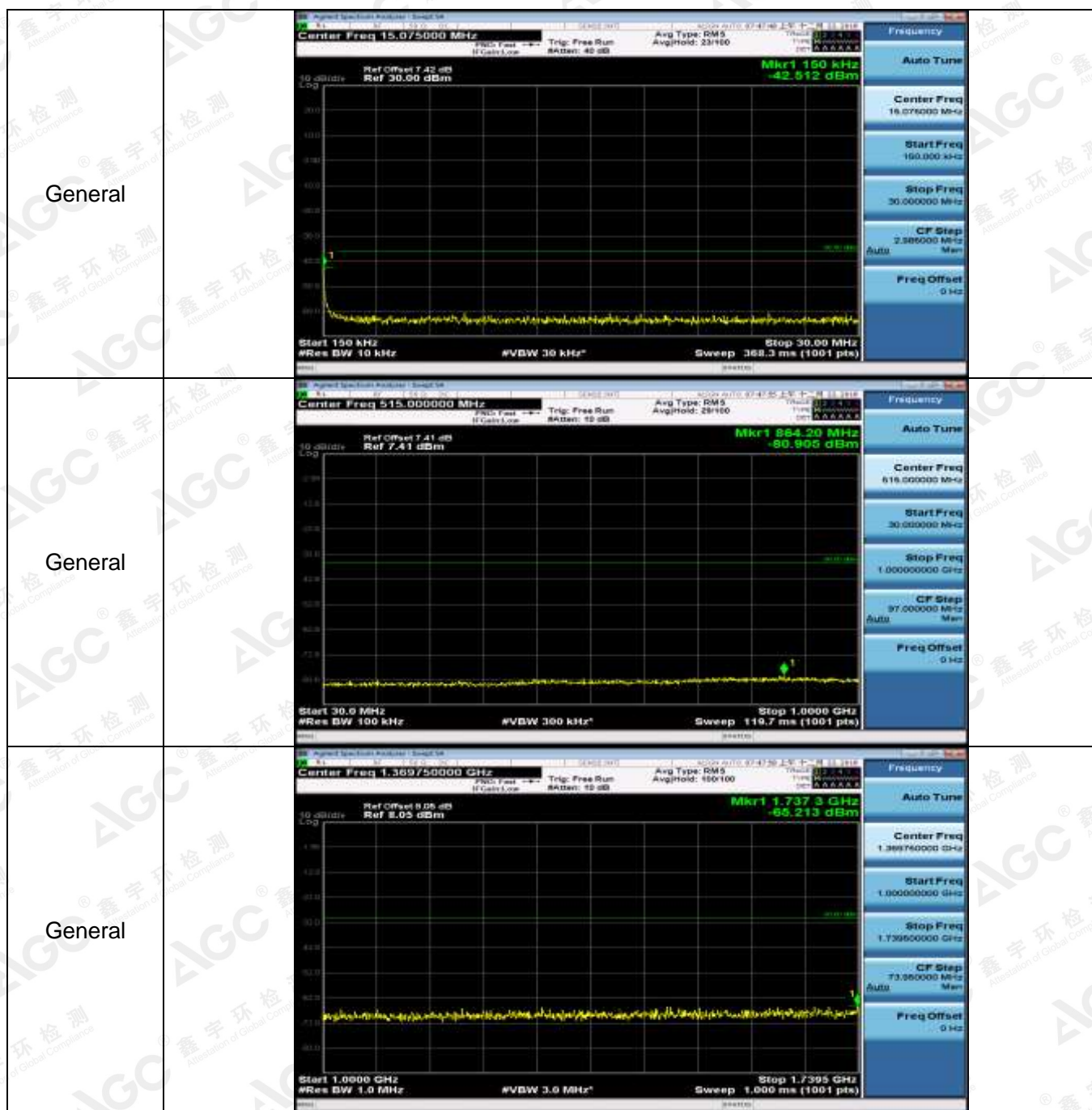
Co-existence	
Co-existence	
Co-existence	

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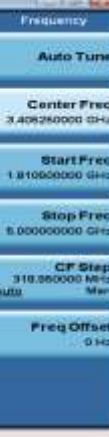

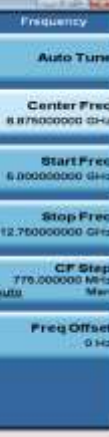

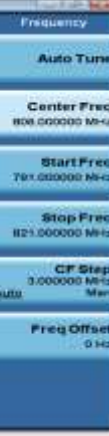
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	

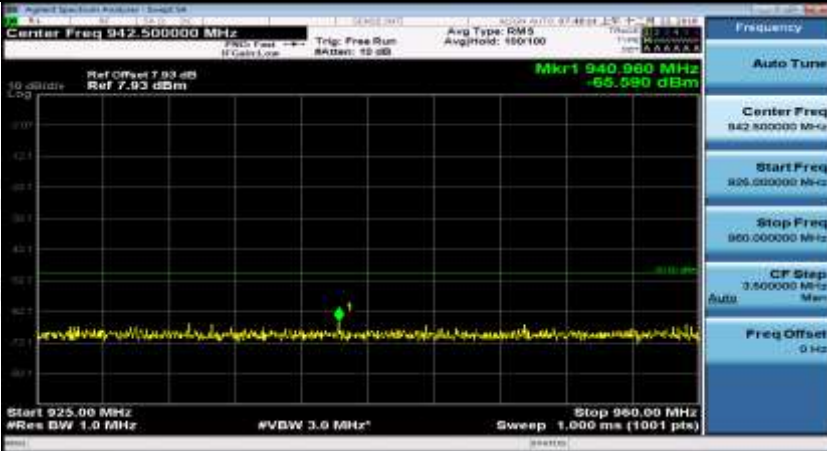
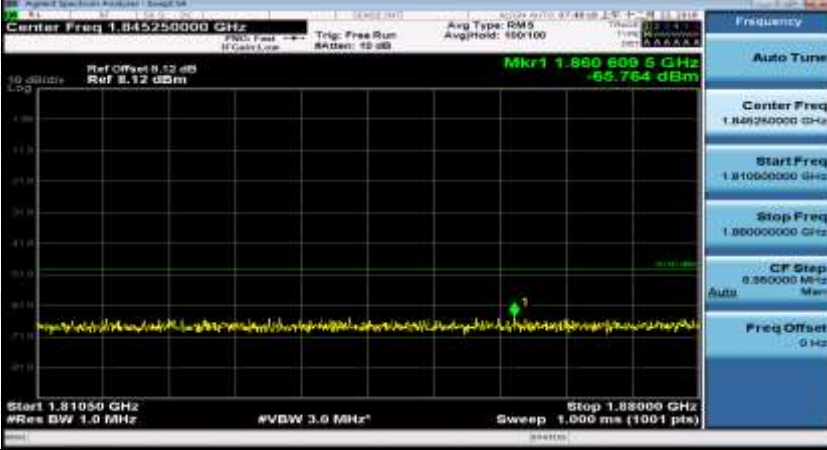
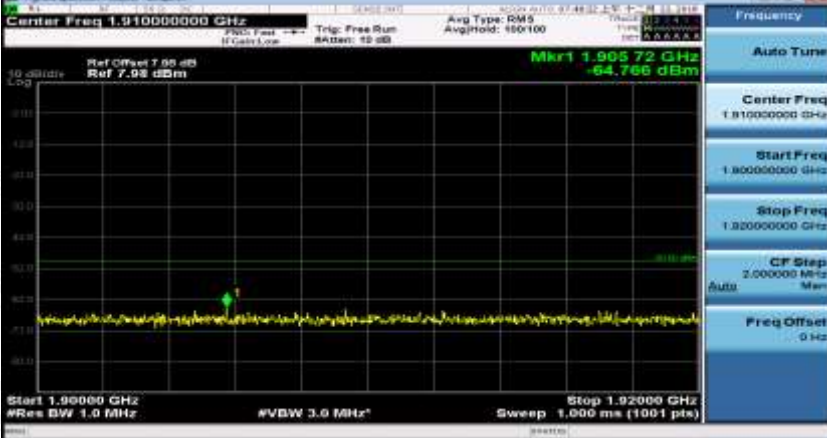
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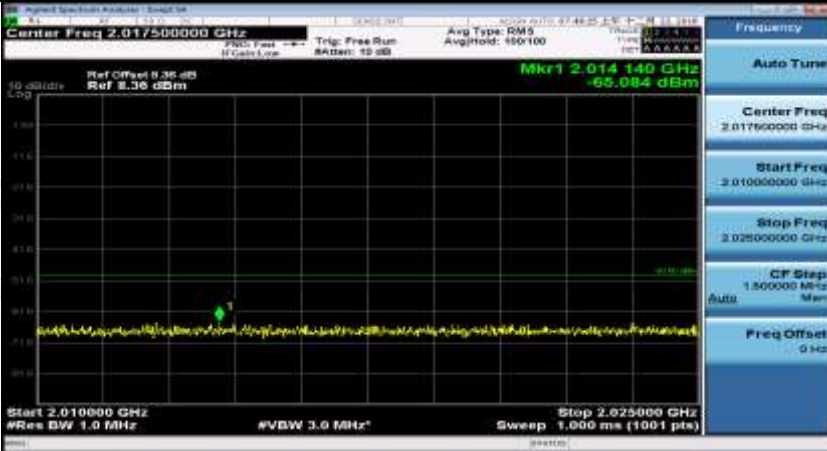
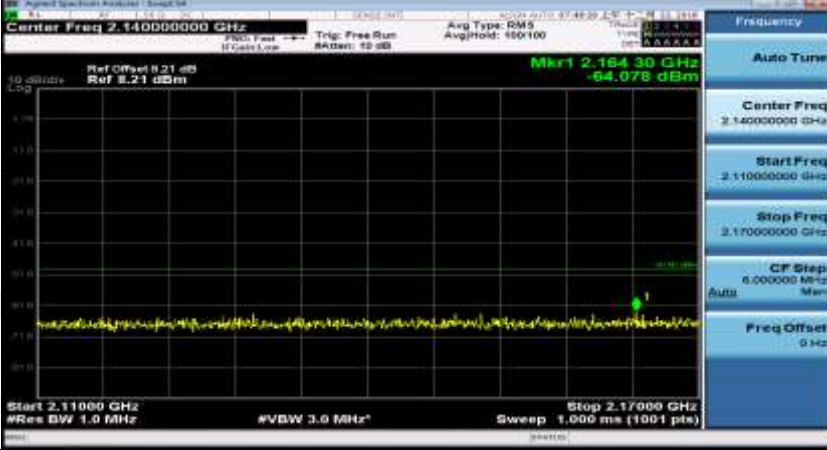
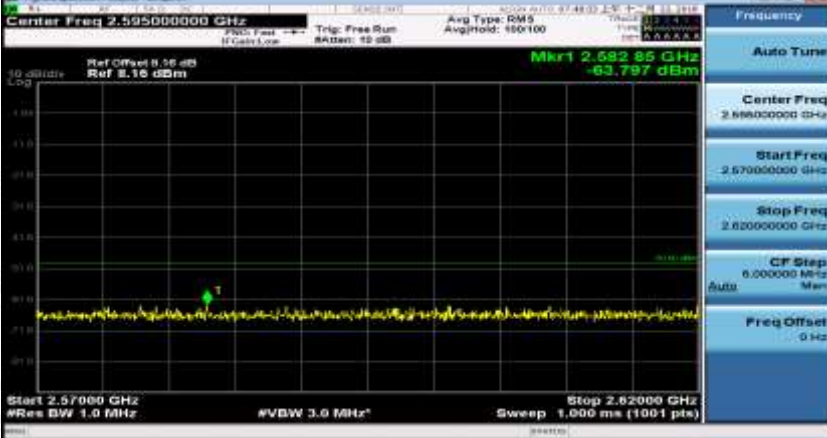
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General			
General			
Co-existence			

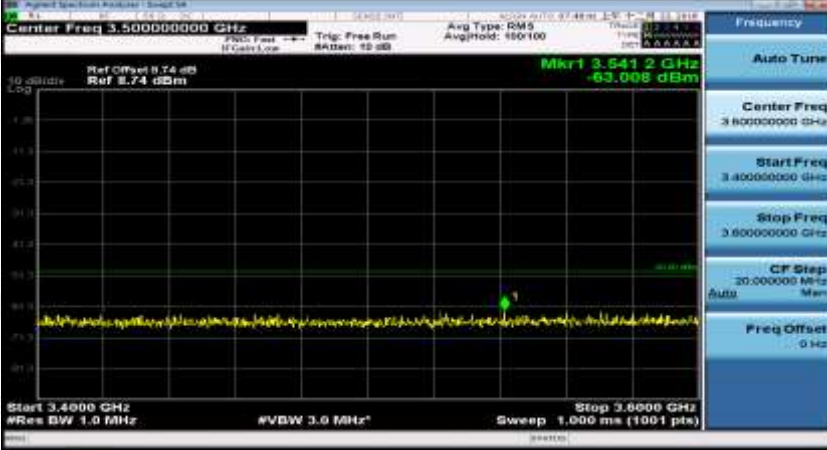
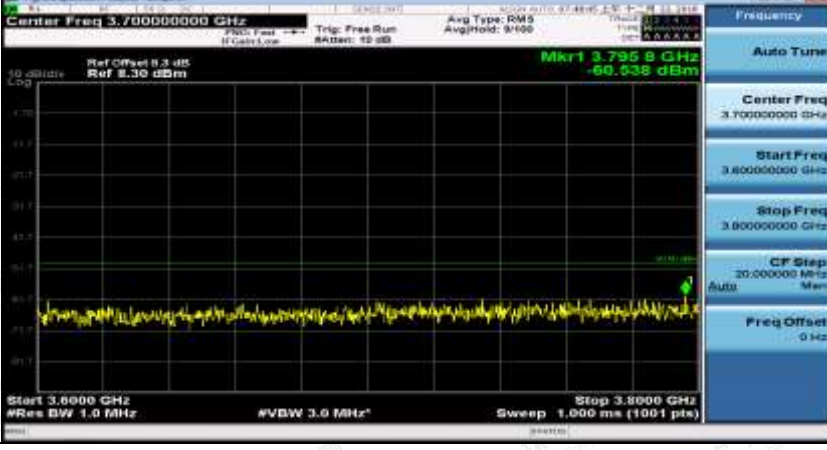
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

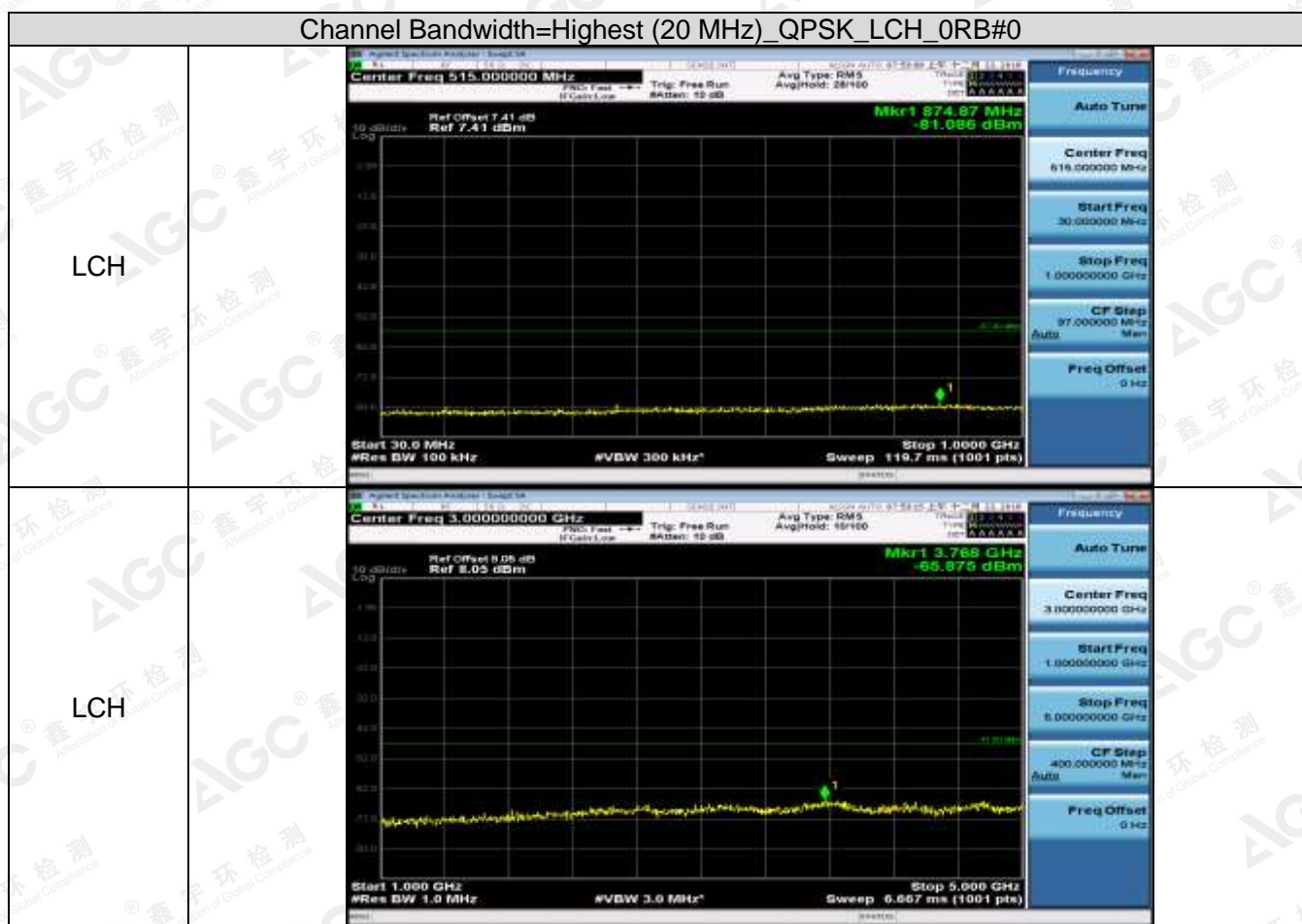
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

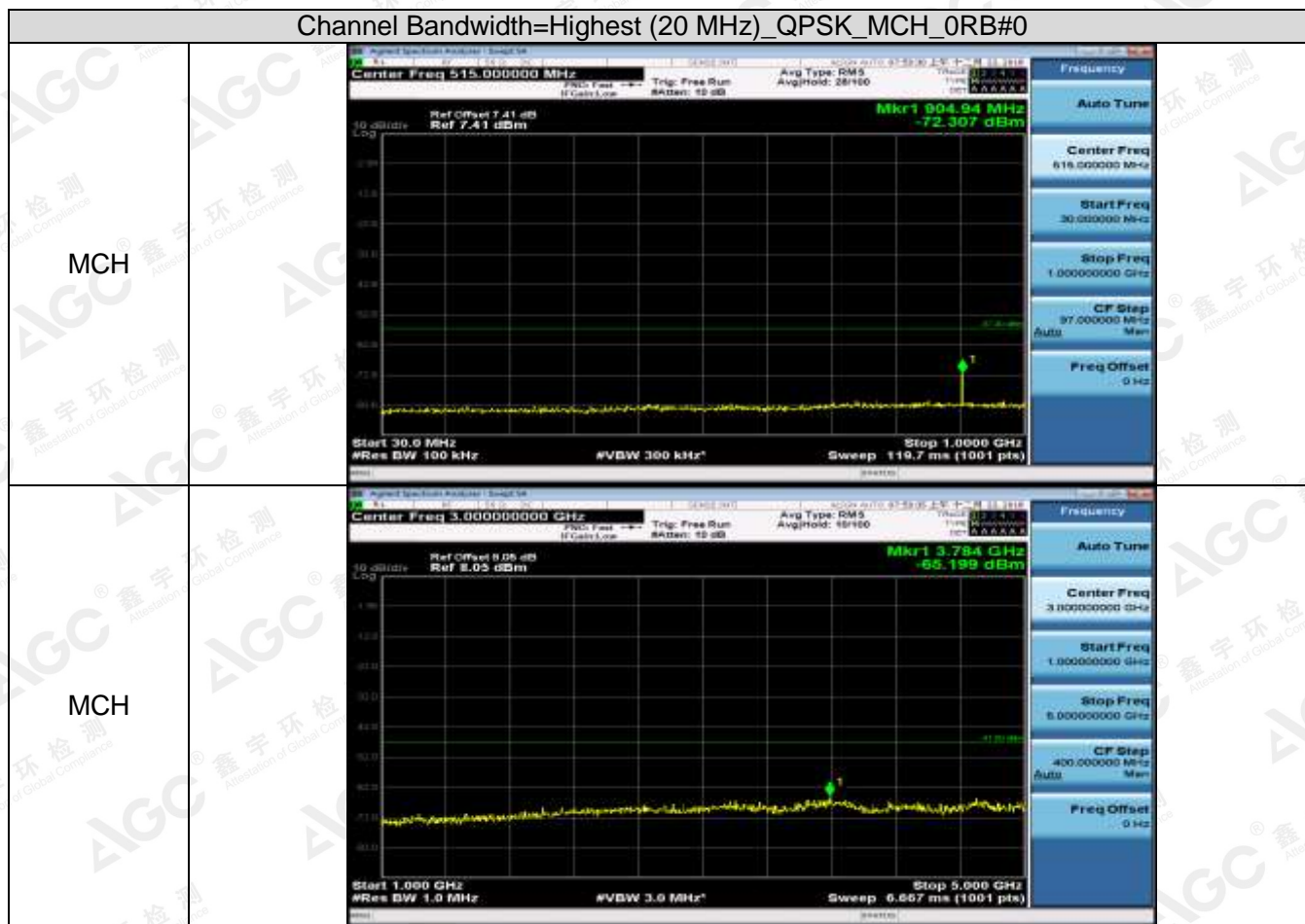
Test Graphs

NTNV

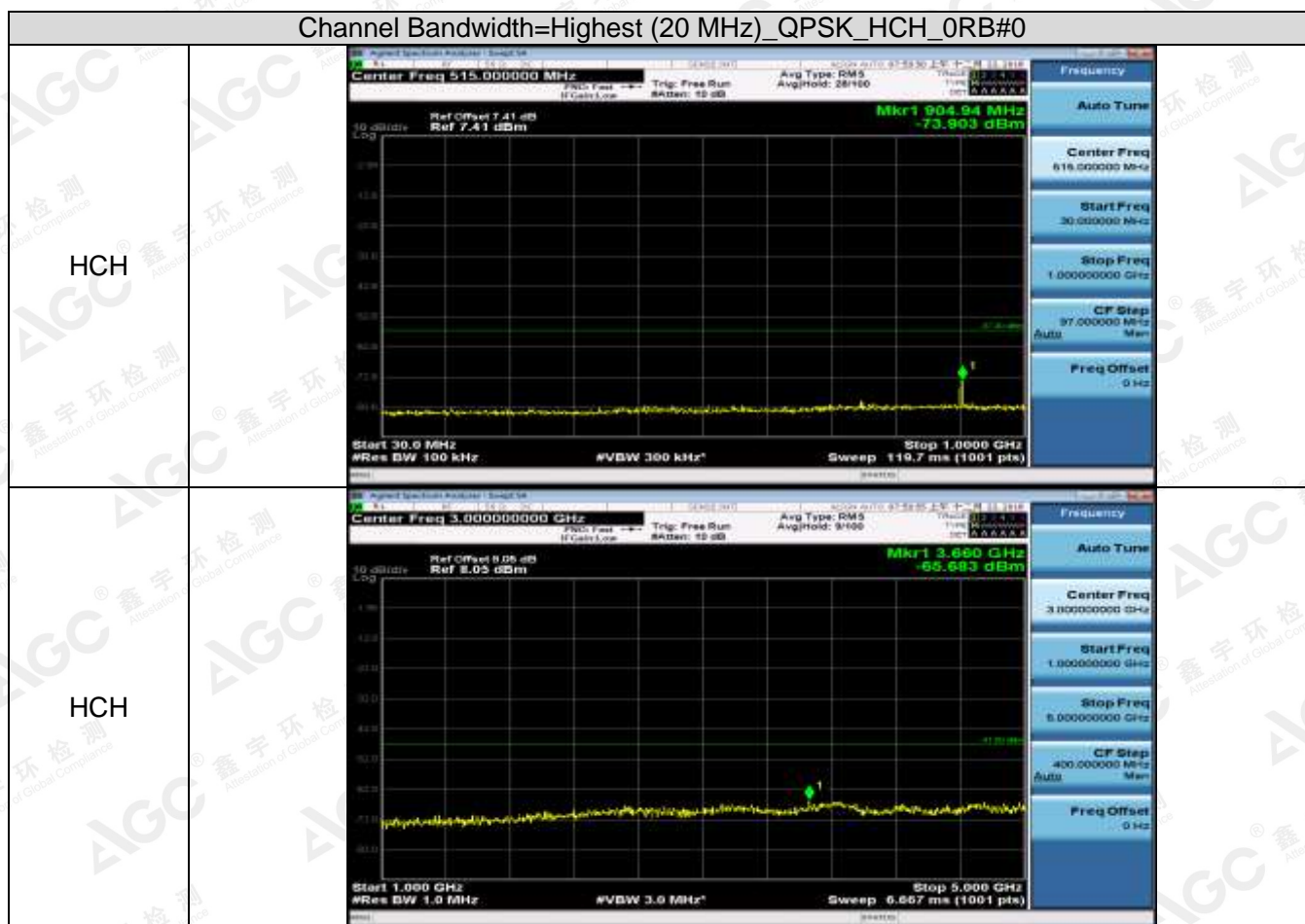
Channel Bandwidth=Highest



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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-86.20	-86.74	-87.10
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-73.37	-73.14	-73.75
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-71.82	-71.26	-72.48
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment	NC				
Test Frequencies	Low range for FInterferer below FDL_low High range for FInterferer above FDL_high				
Test Channel Bandwidths	Lowest, 1.4MHz, Highest 20MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
1.4MHz	QPSK	Full	QPSK	6	pass	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	pass	≥ 95 %
20MHz	QPSK	Full	QPSK	50	pass	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

NTNV

	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,1.4MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfiguration		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
			FDD		FDD		
TNVN	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					
TL,VL	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					
TL,VH	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					

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Appendix C for Band 7

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	23.45	Pass
					max	23.51	Pass
				Partial	0	23.42	Pass
					max	23.48	Pass
			Mid range	1	0	23.60	Pass
					max	23.62	Pass
				Partial	0	23.65	Pass
					max	23.62	Pass
			High range	1	0	23.81	Pass
					max	23.76	Pass
				Partial	0	23.84	Pass
					max	23.83	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	23.24	Pass
					max	23.39	Pass
				Partial	0	23.32	Pass
					max	23.43	Pass
			Mid range	1	0	23.41	Pass
					max	23.50	Pass
				Partial	0	23.49	Pass
					max	23.56	Pass
			High range	1	0	23.43	Pass
					max	23.52	Pass
				Partial	0	23.68	Pass
					max	23.73	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Full	0	-48.91	Pass
			Mid range	Full	0	-50.32	Pass
			High range	Full	0	-49.43	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Full	0	-49.40	Pass
			Mid range	Full	0	-49.43	Pass
			High range	Full	0	-48.51	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass

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			Mid range		max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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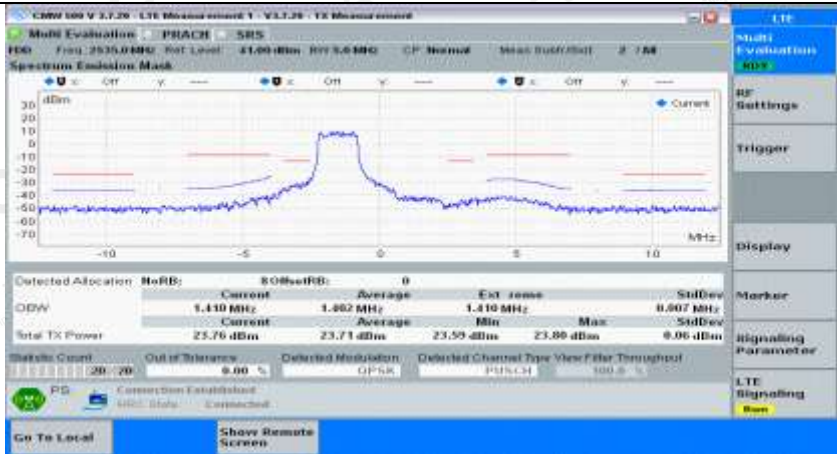
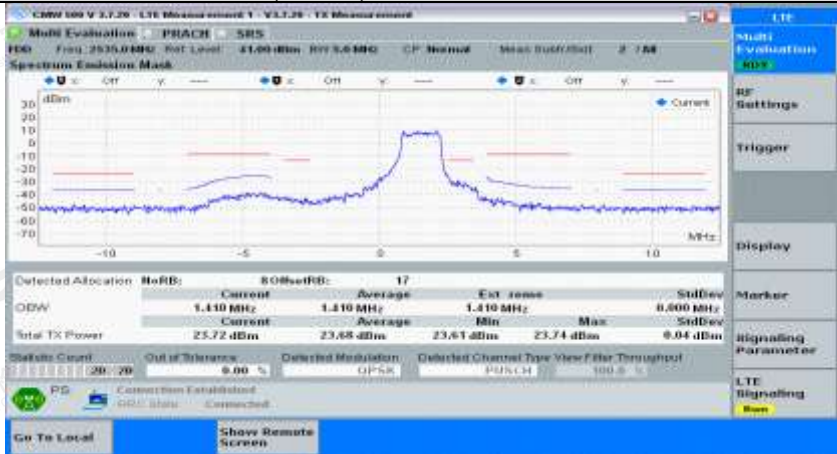
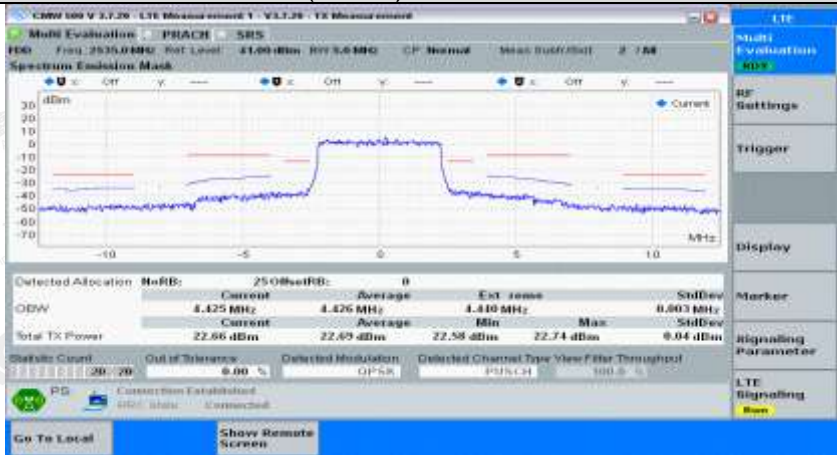
Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)



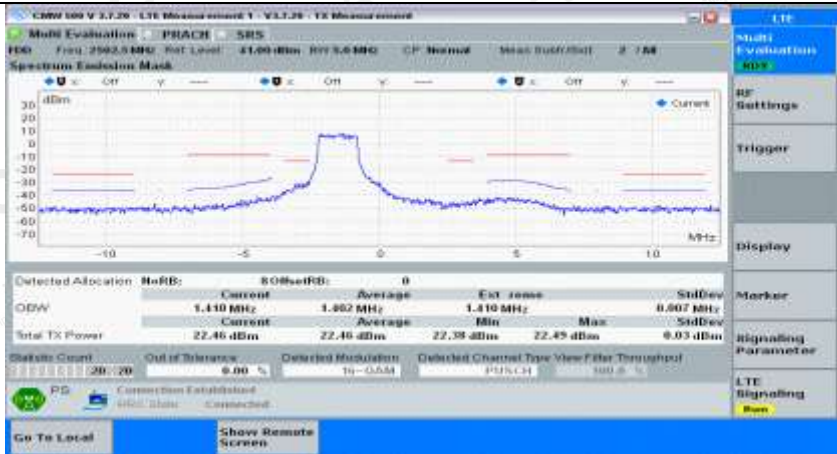
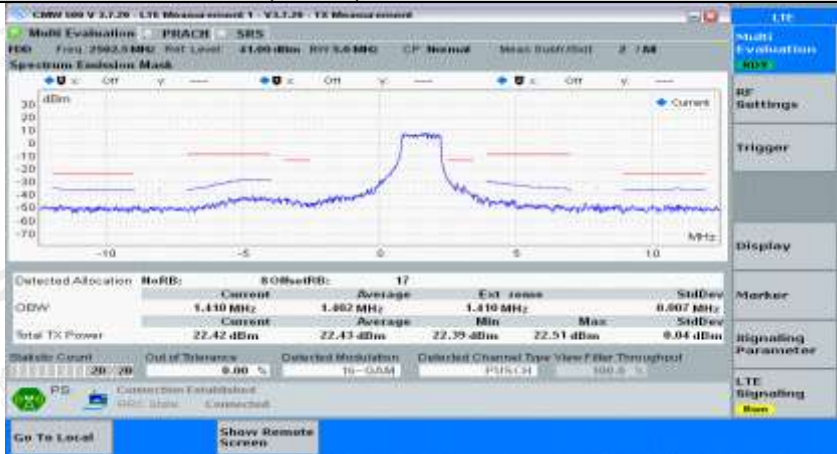
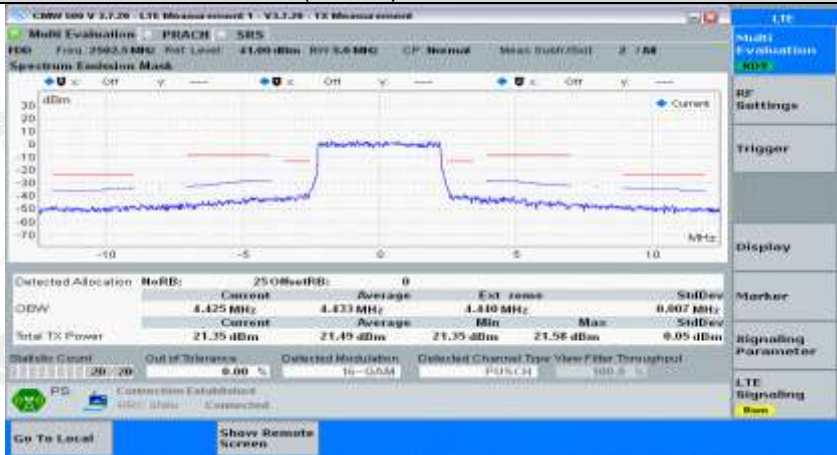
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

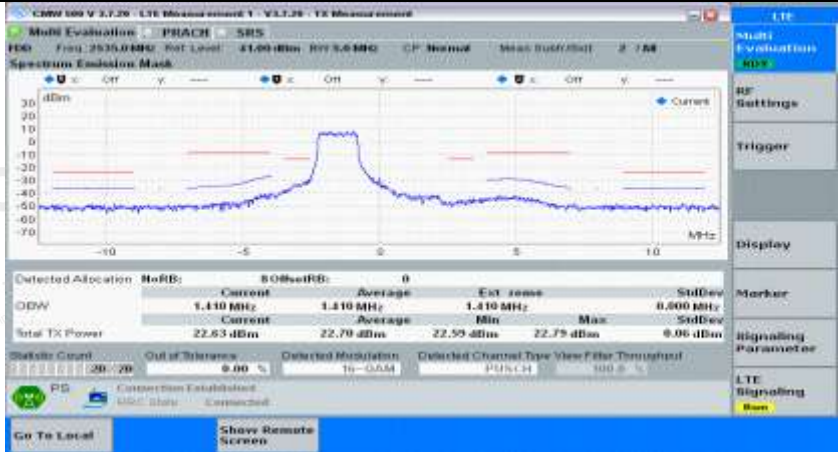
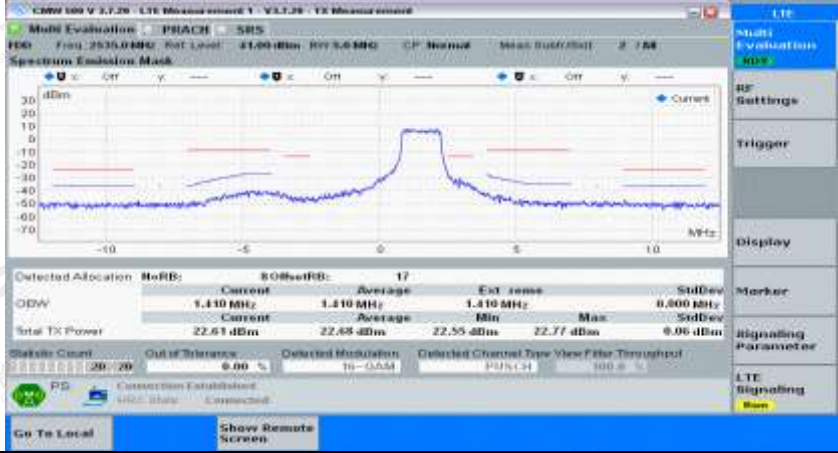
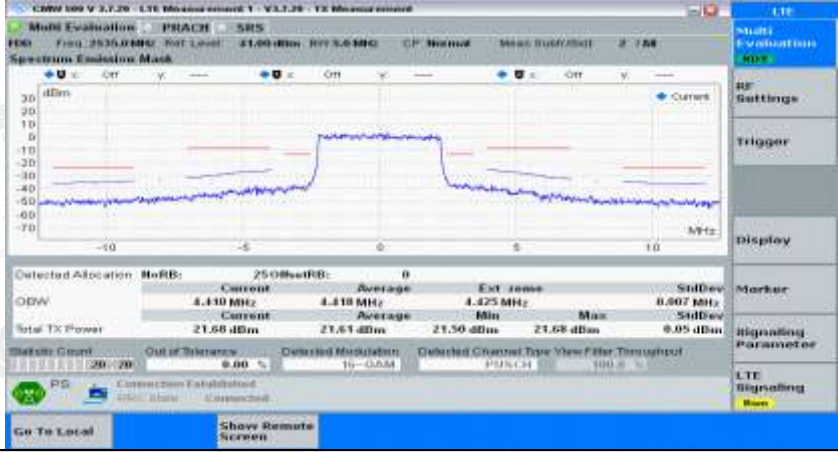
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

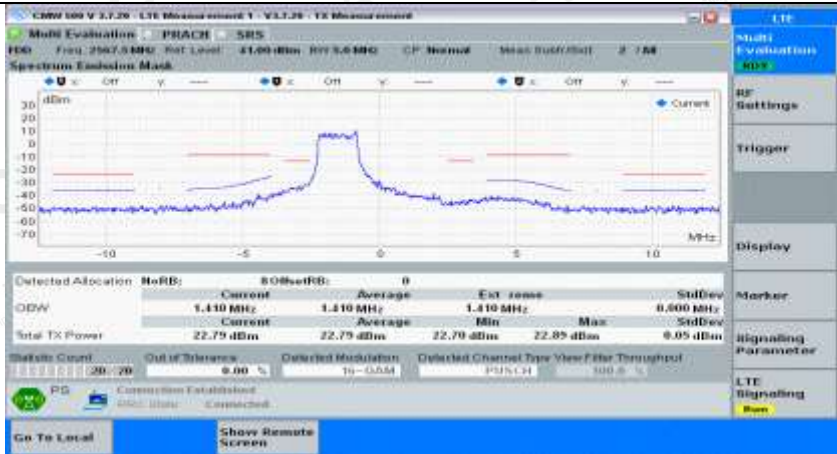
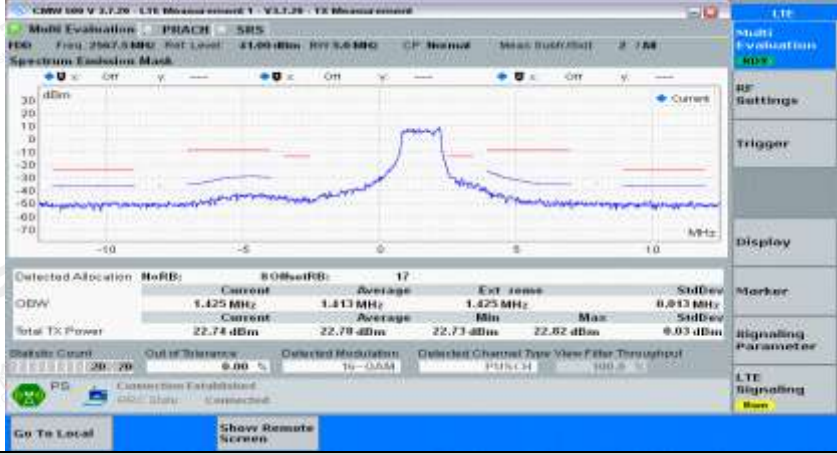
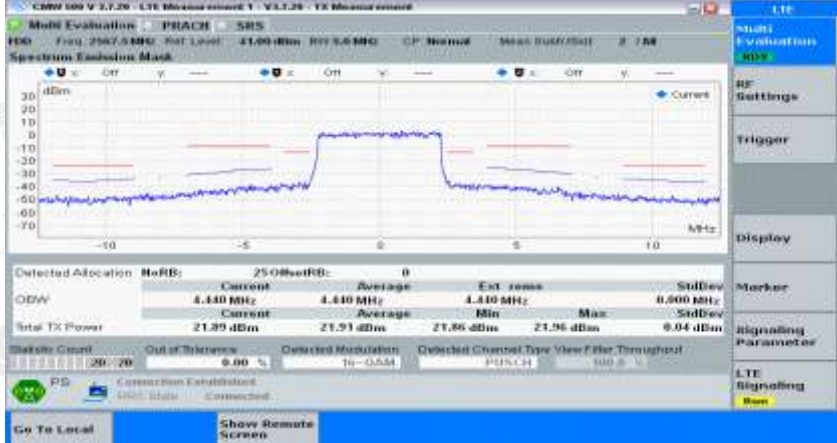
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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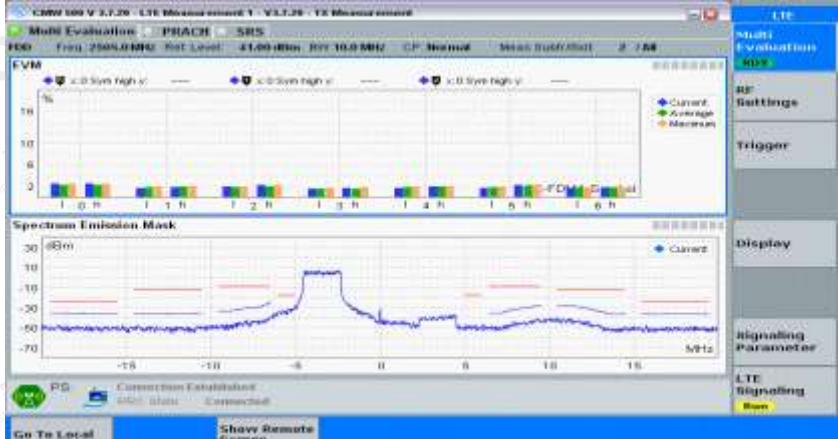

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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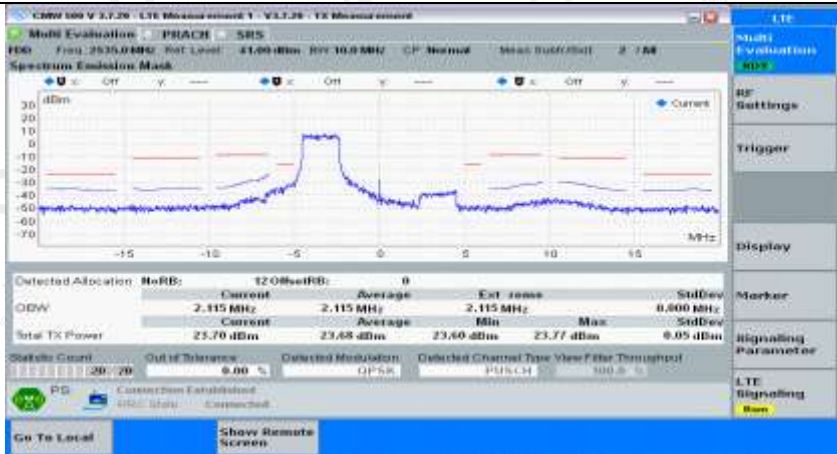
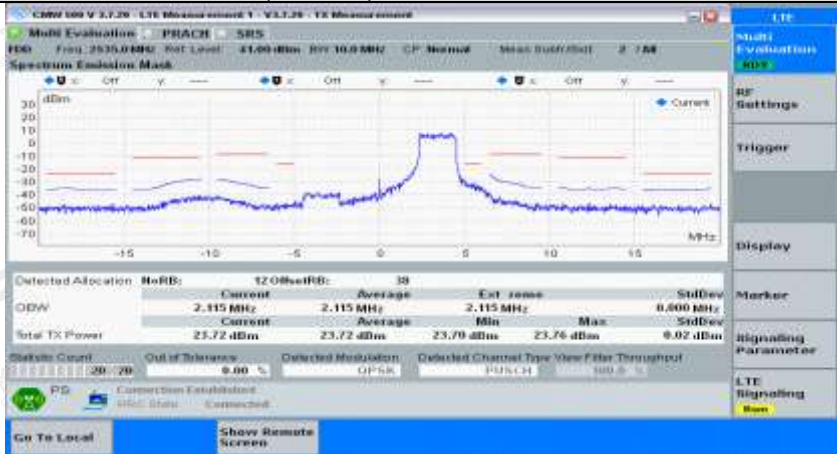
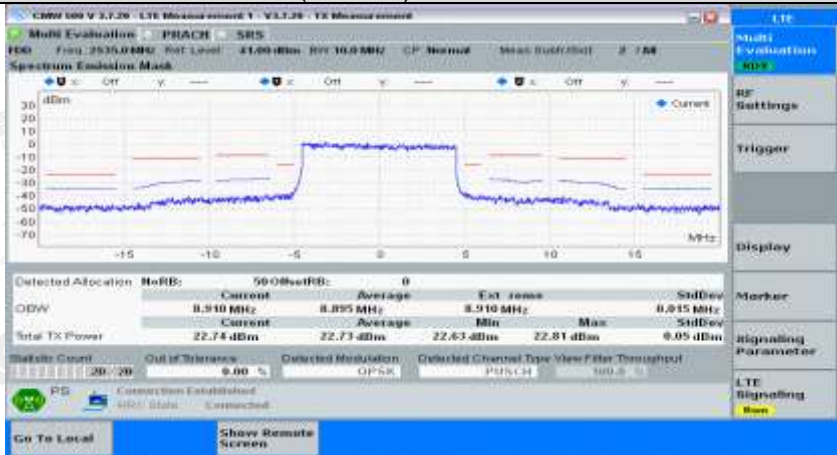
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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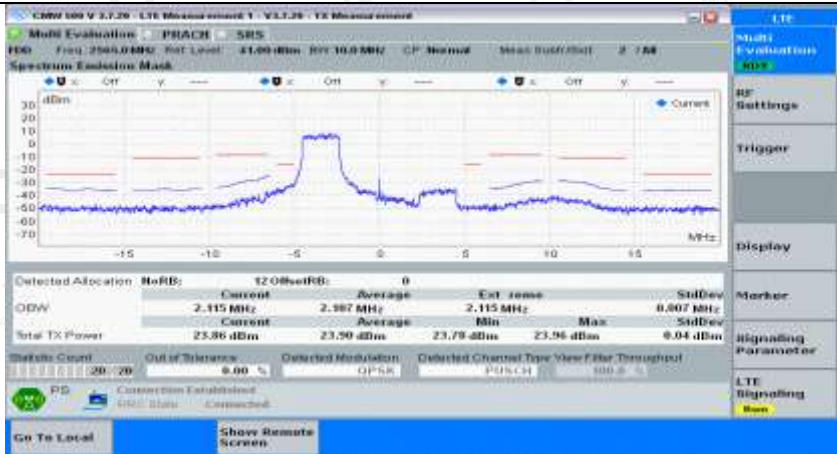
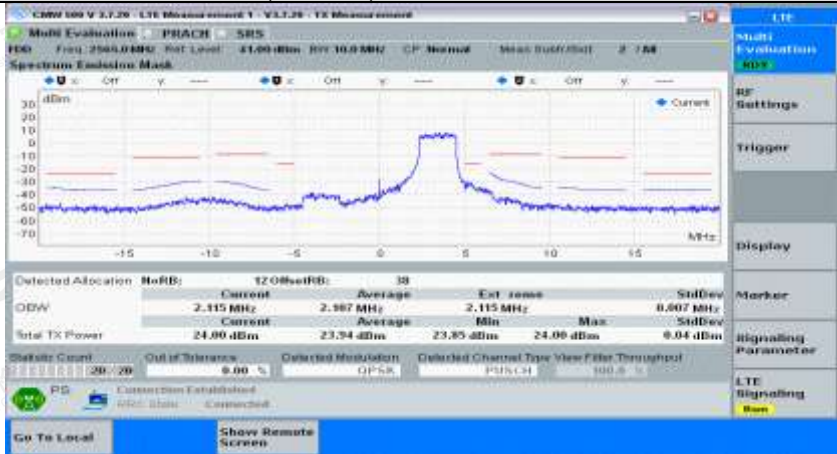

Channel Bandwidth= (10 MHz)

QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0</p> 
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>

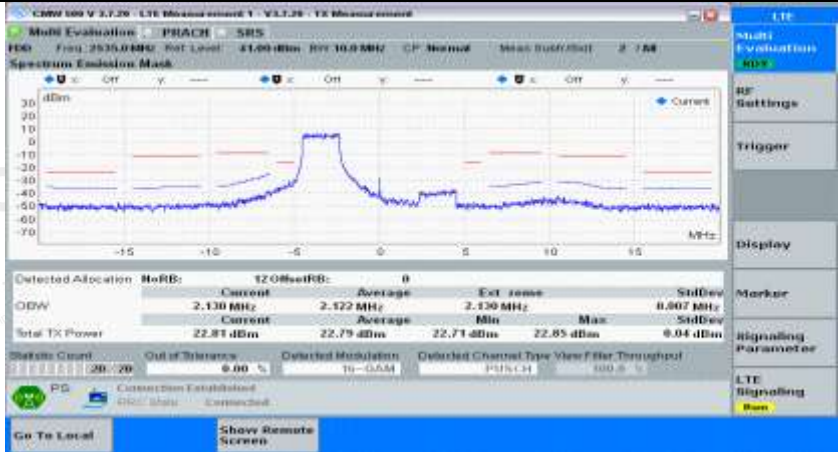
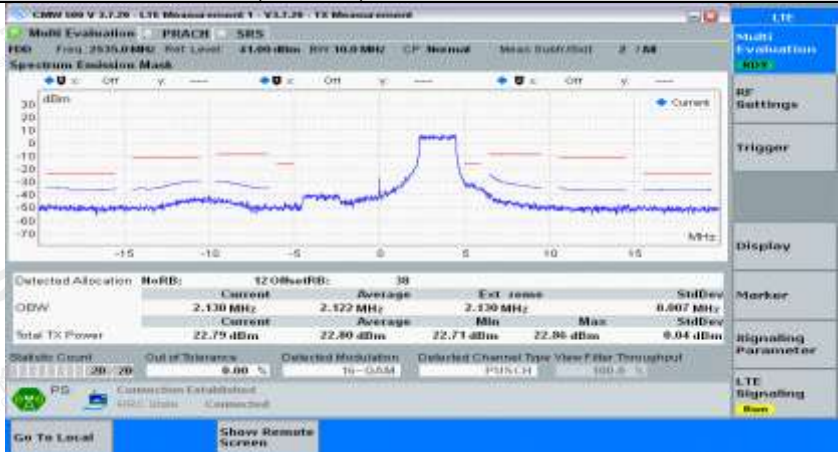
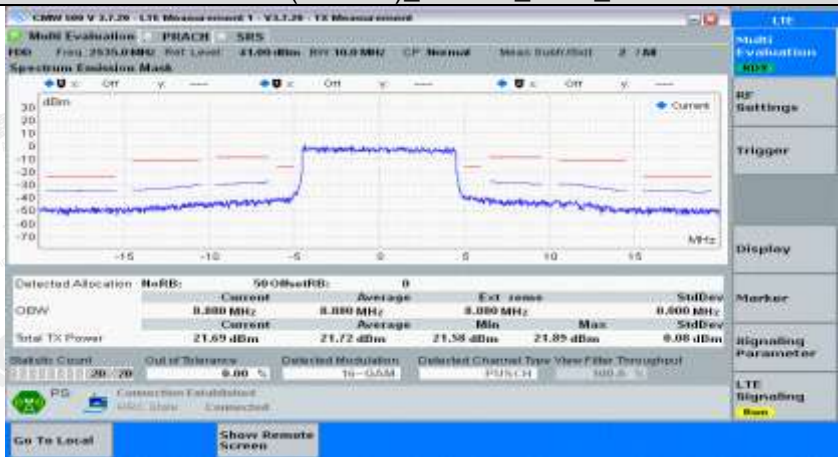
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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>

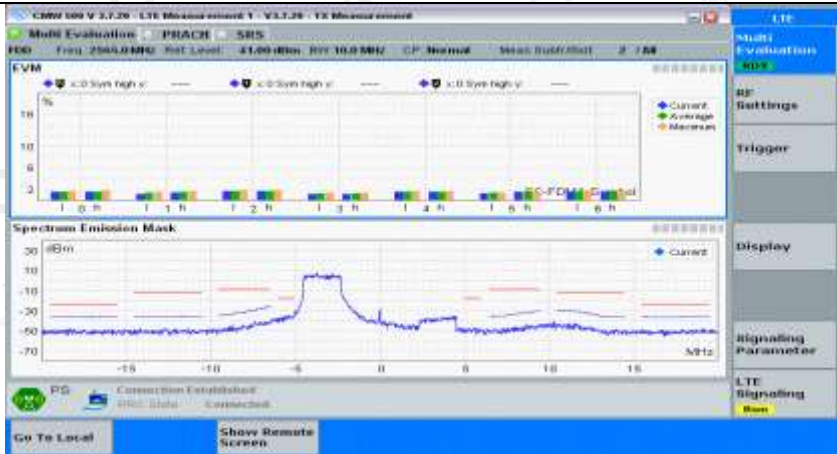
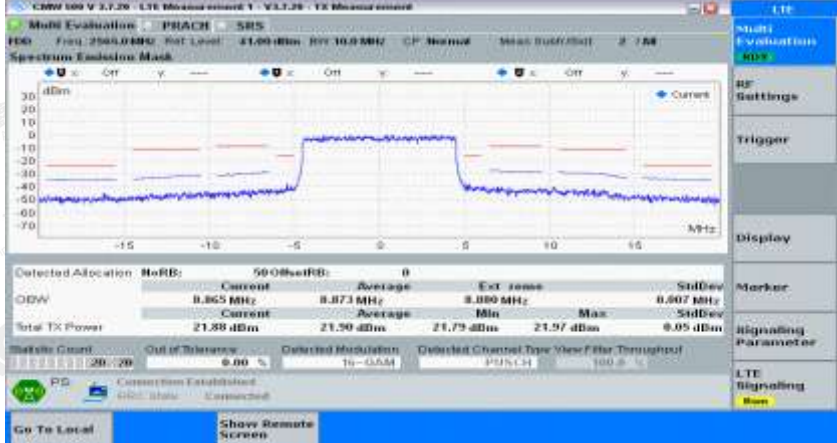
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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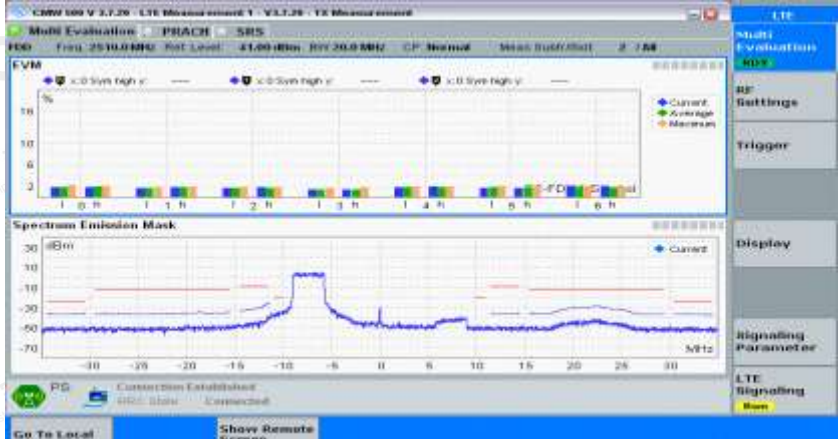
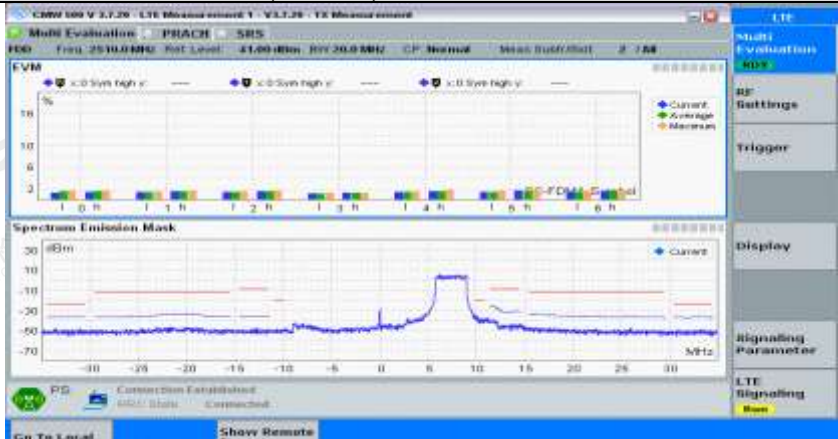
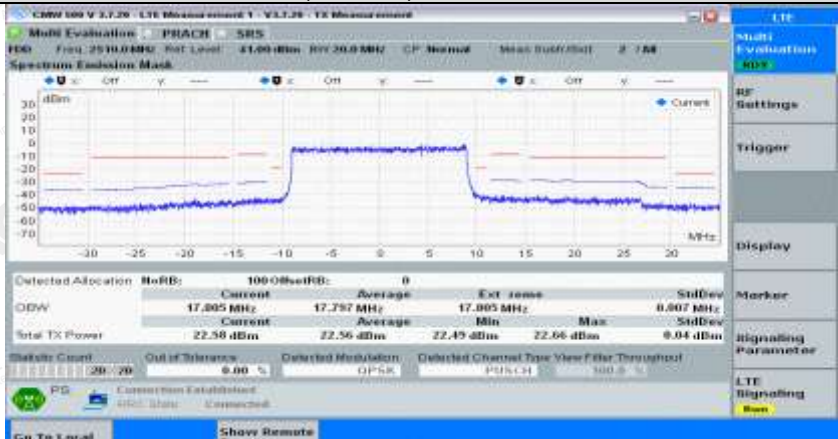
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

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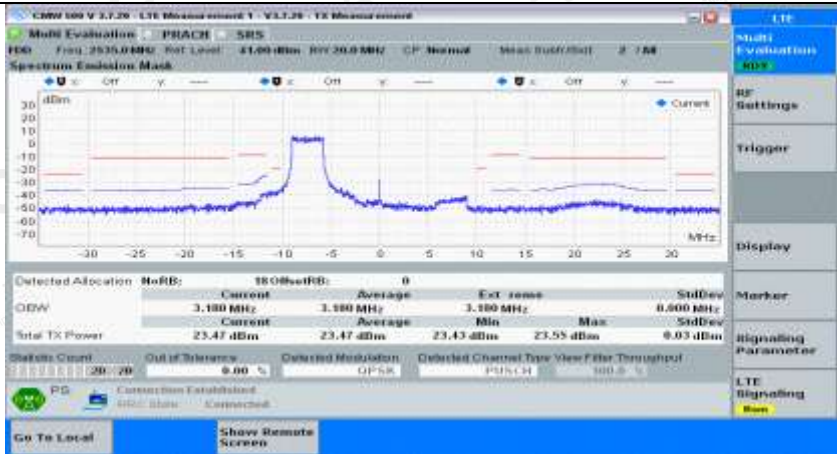
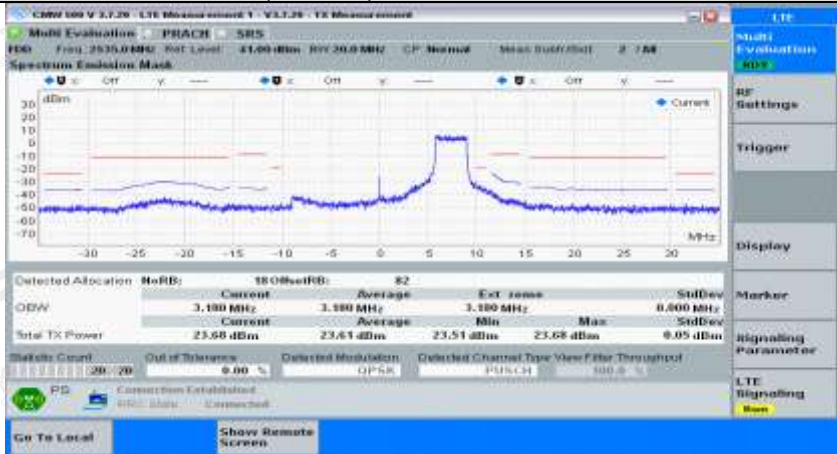
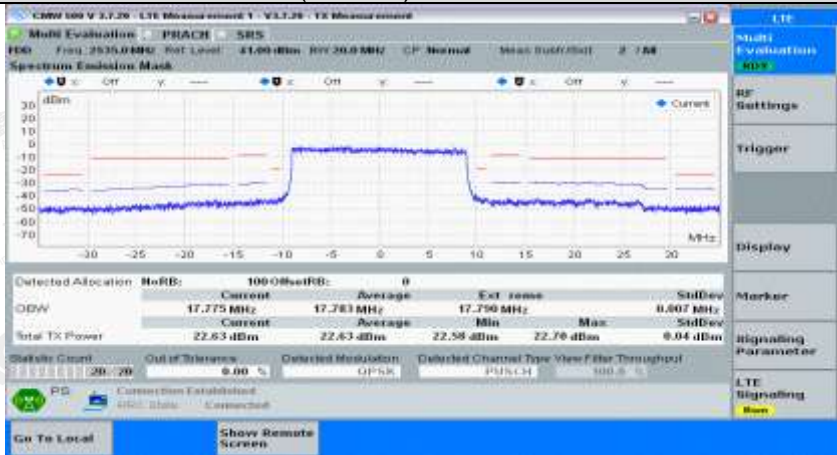
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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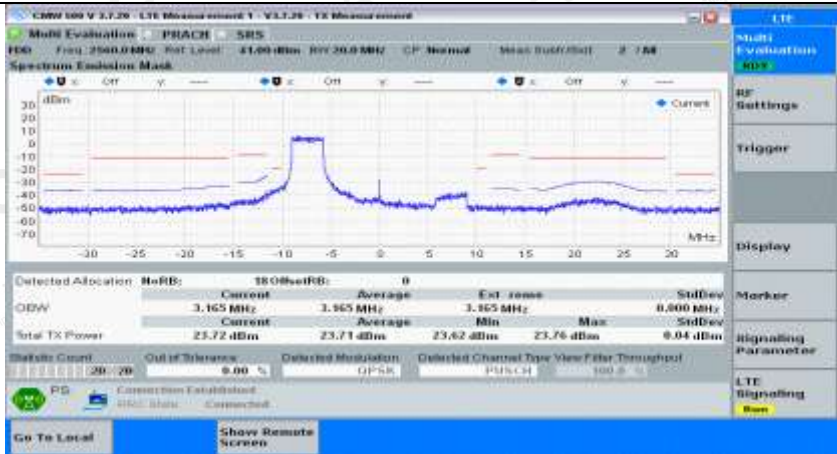
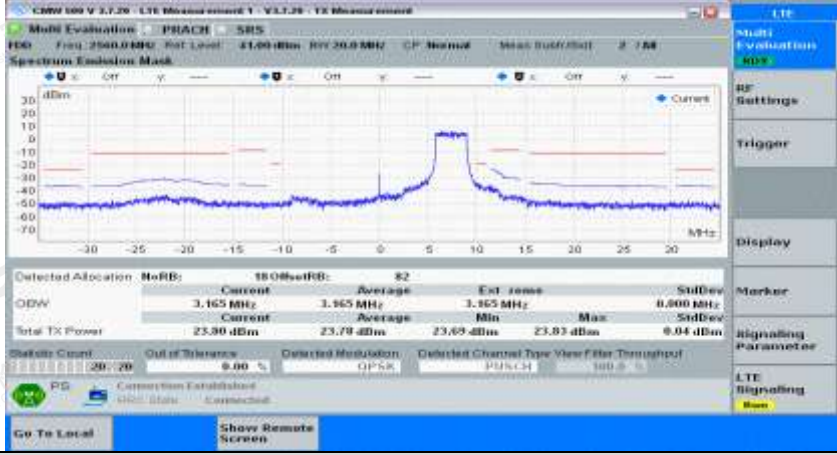
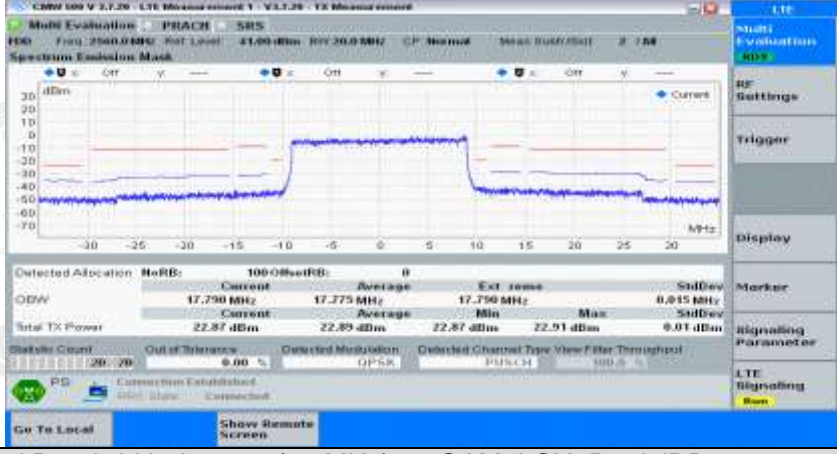
Channel Bandwidth=Highest (20 MHz)

QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0</p> 
	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0</p>

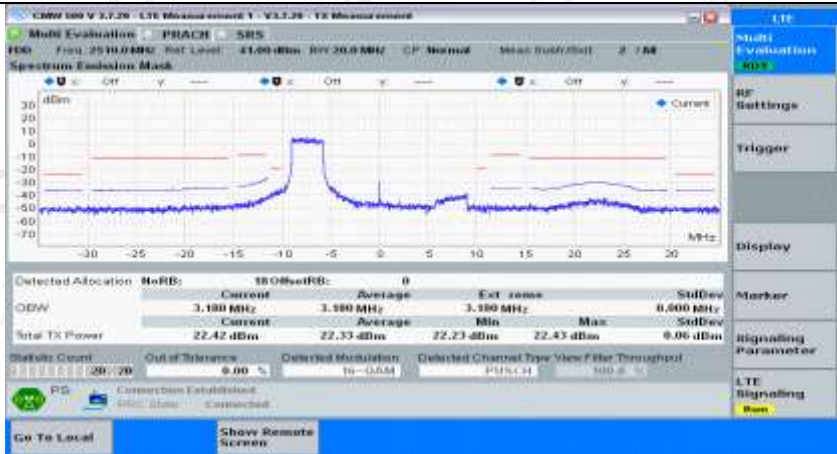
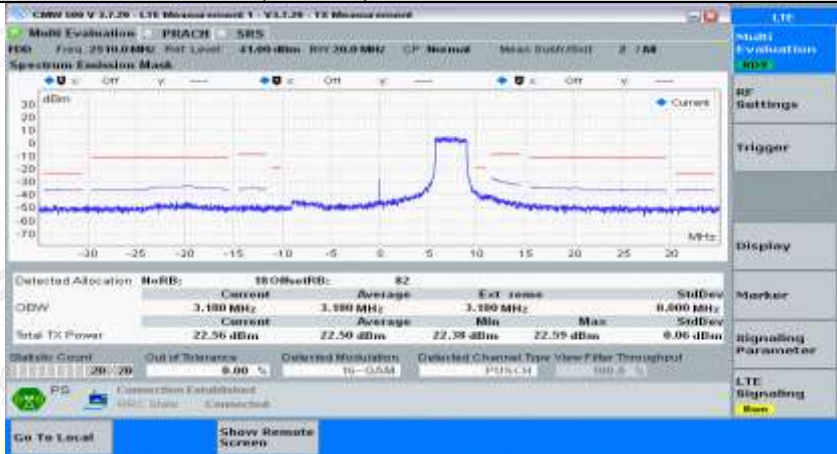
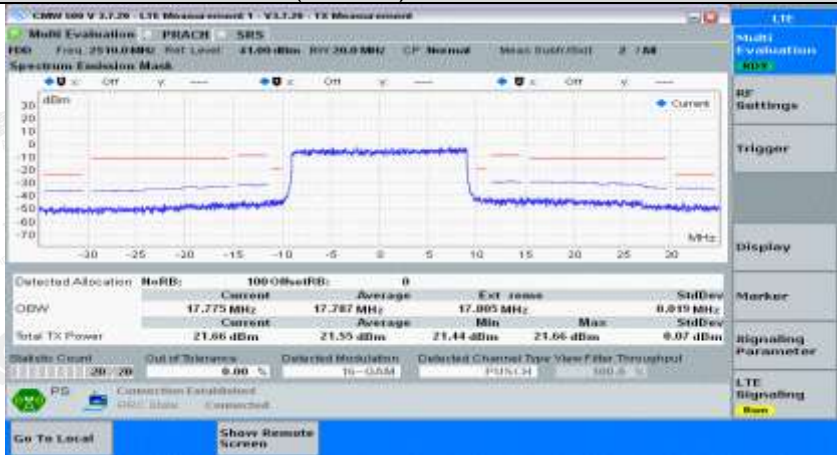
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

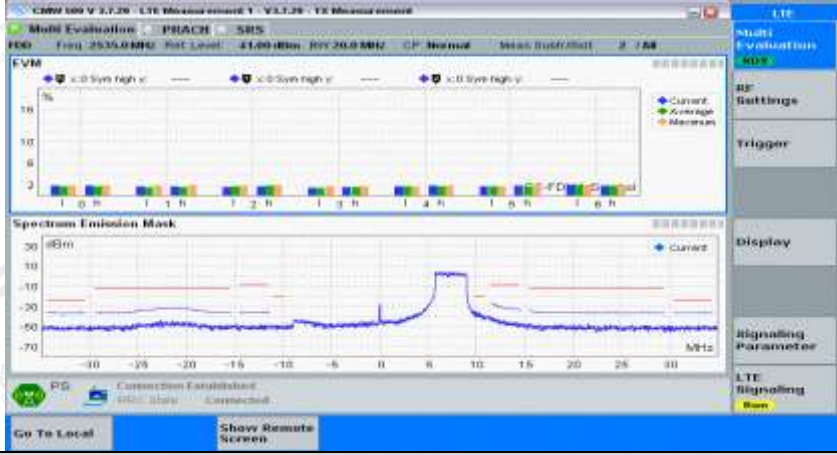
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

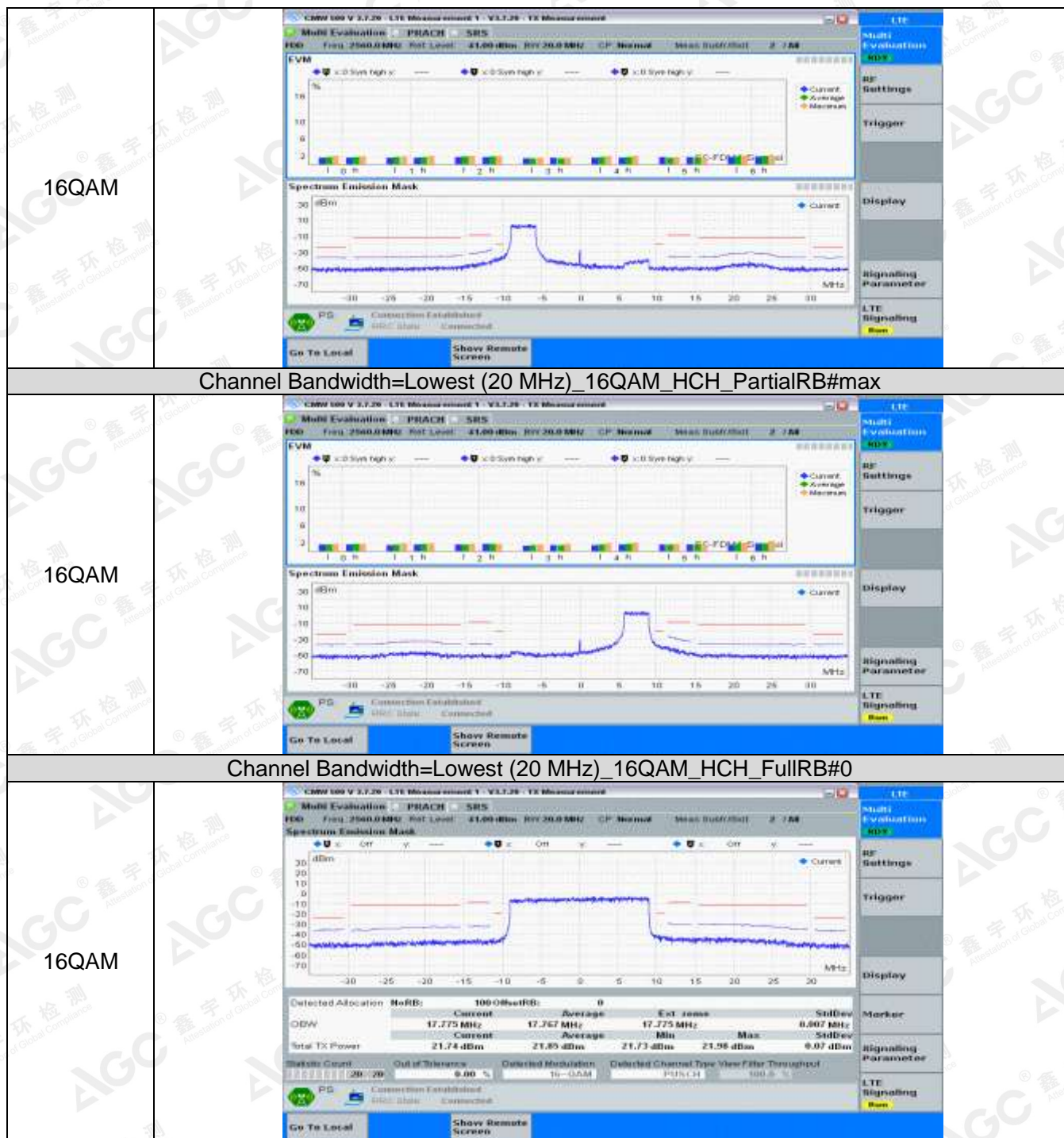
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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	16QAM	Low range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

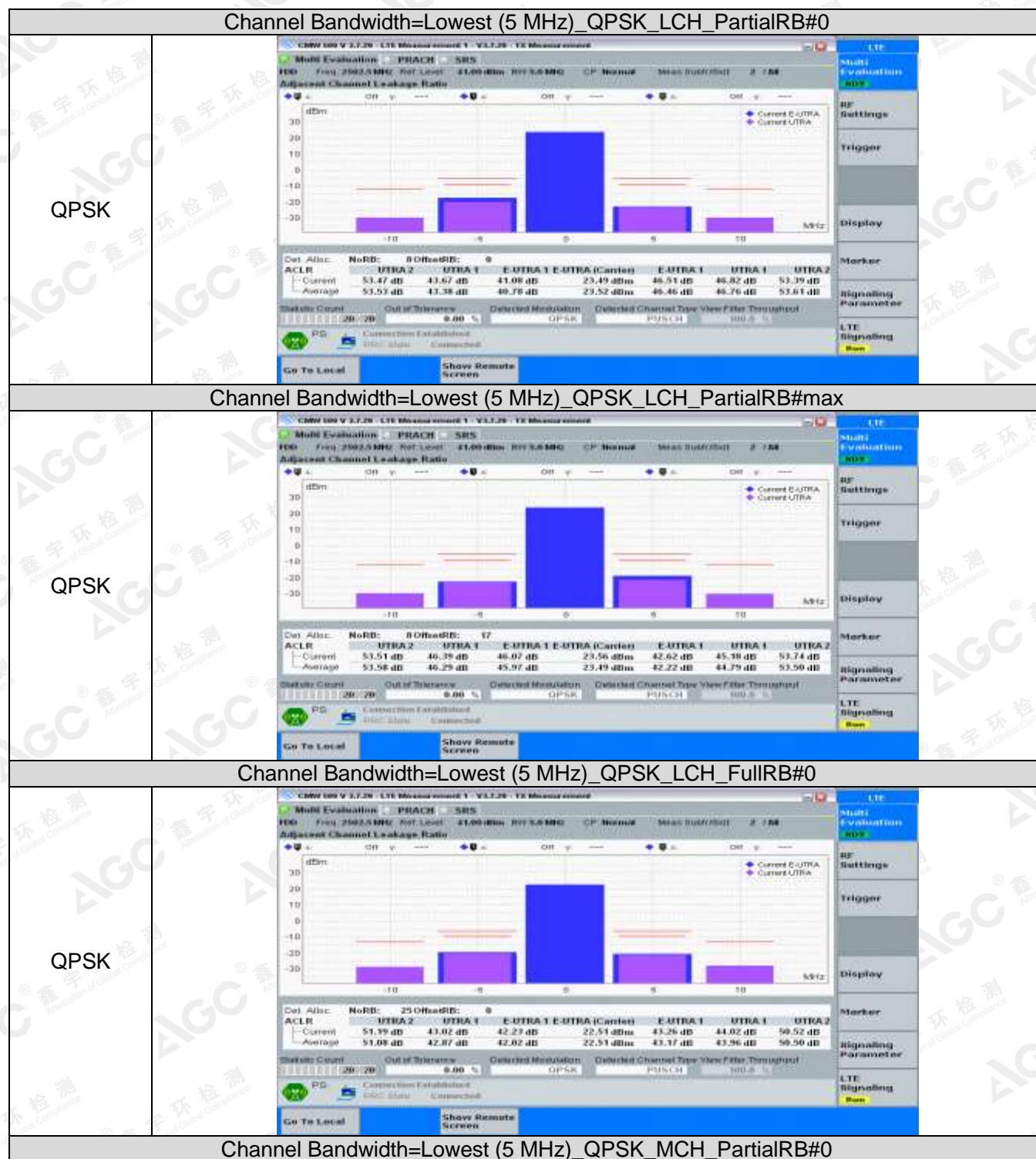
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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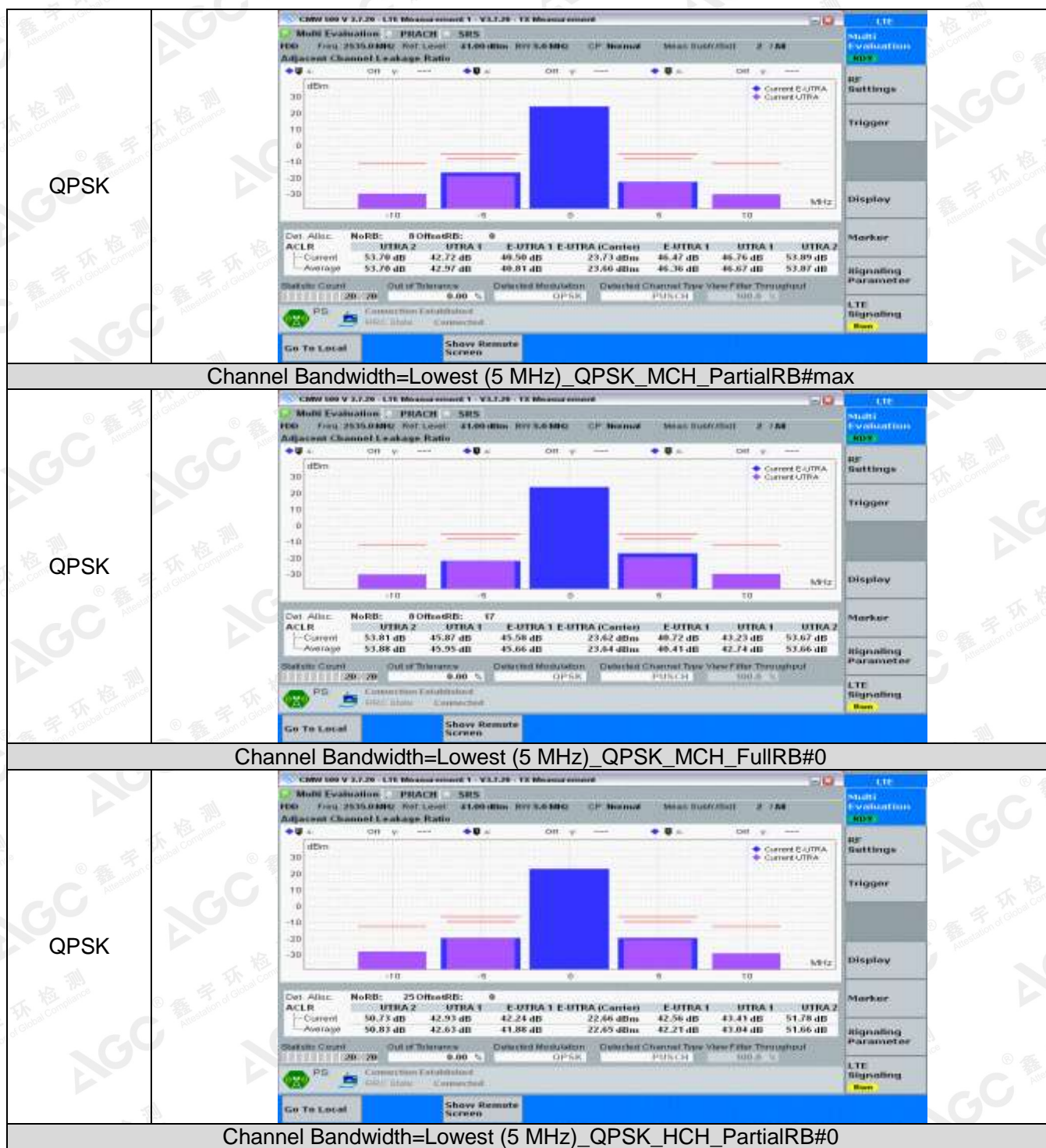
Test Graphs

NTNV

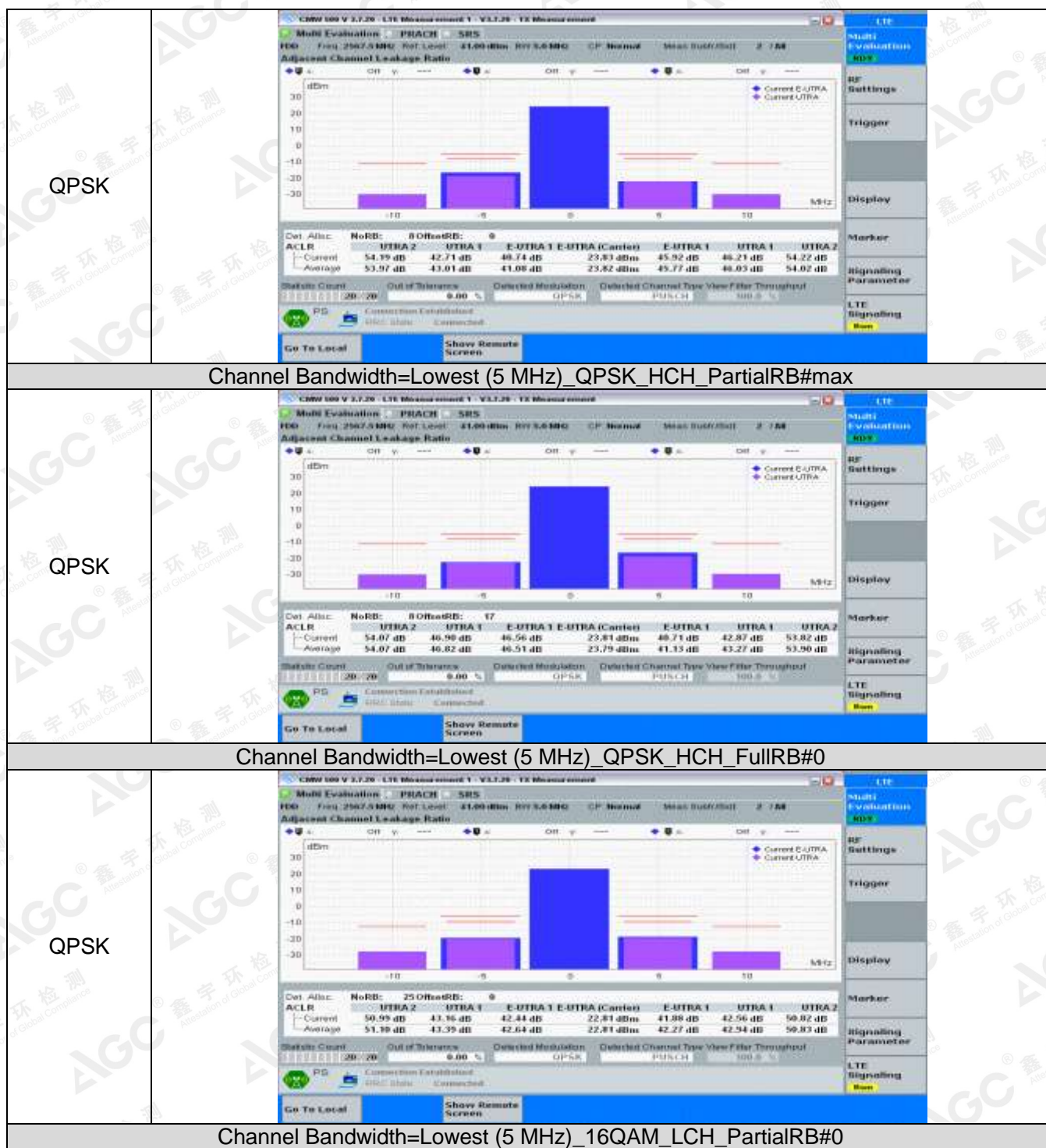
Channel Bandwidth=Lowest (5 MHz)



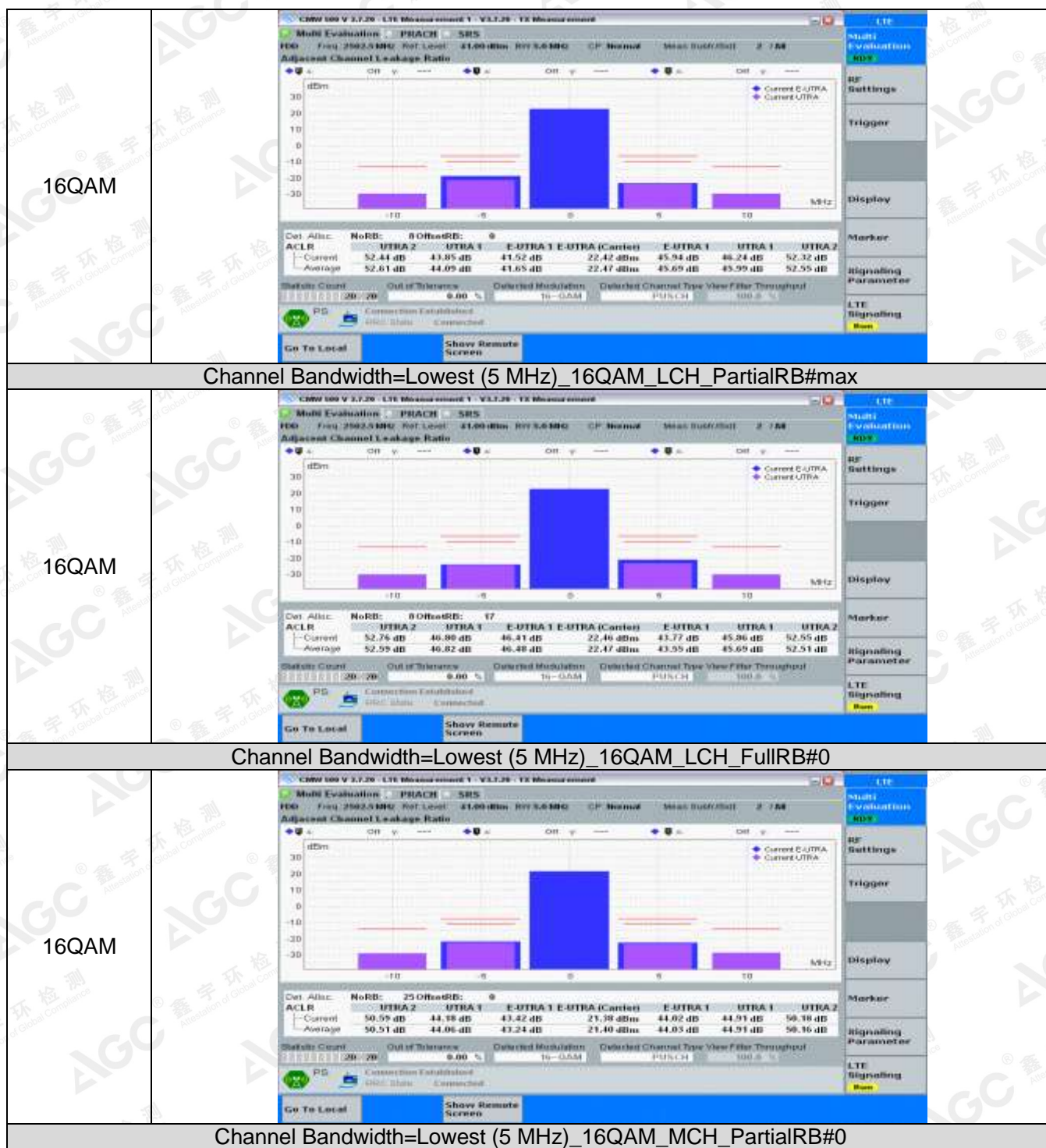
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



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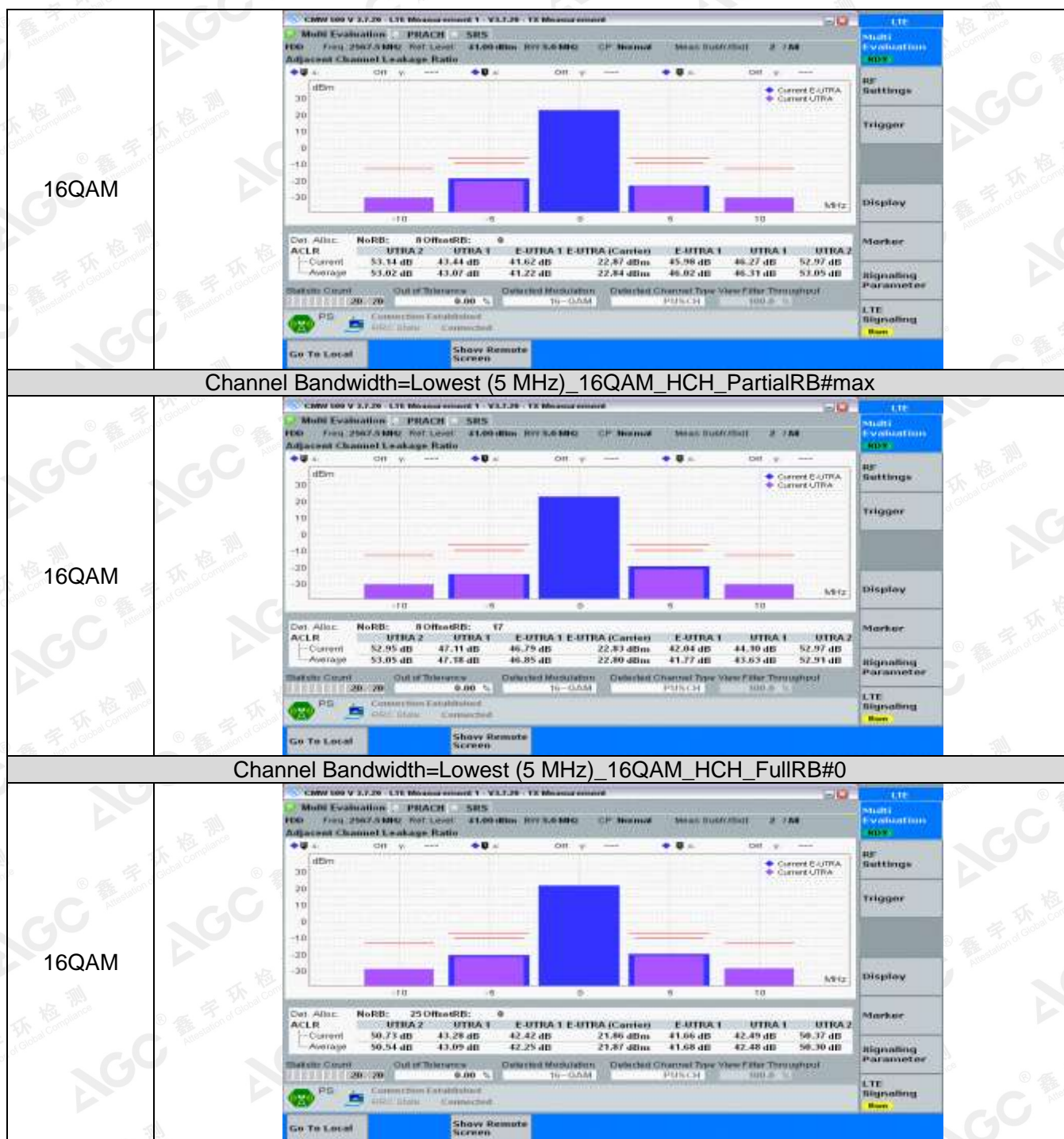
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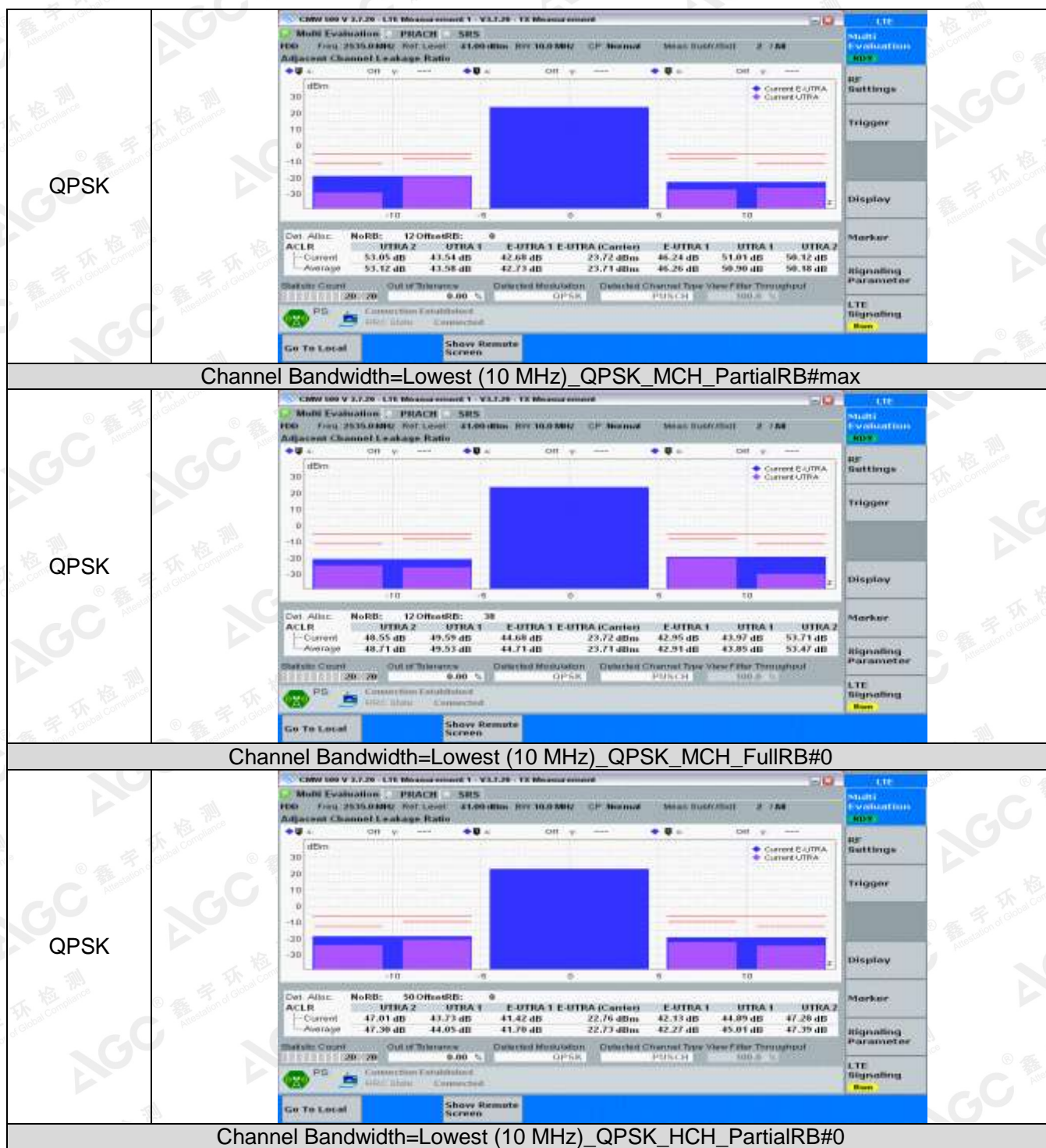
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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>




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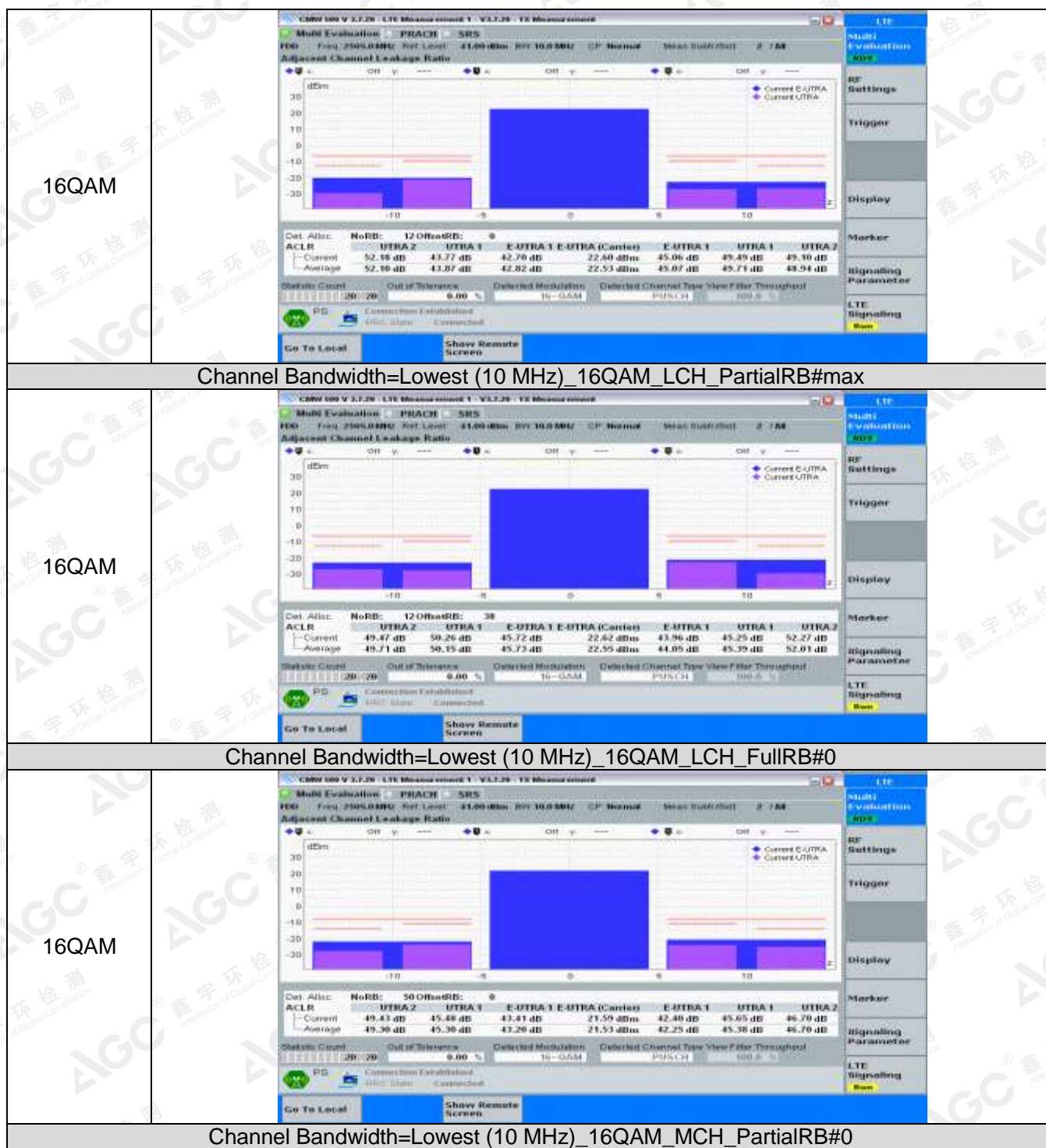
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QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>12 OffRB</th><th>38</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Current</td><td>53.41 dB</td><td>44.09 dB</td><td>43.12 dB</td><td>23.92 dBm</td><td>45.11 dB</td><td>49.80 dB</td><td>49.03 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>53.38 dB</td><td>43.98 dB</td><td>43.11 dB</td><td>23.89 dBm</td><td>45.17 dB</td><td>49.84 dB</td><td>49.14 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	ACLR											Current	53.41 dB	44.09 dB	43.12 dB	23.92 dBm	45.11 dB	49.80 dB	49.03 dB				Average	53.38 dB	43.98 dB	43.11 dB	23.89 dBm	45.17 dB	49.84 dB	49.14 dB			
Det. Alloc.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																																			
ACLR																																													
Current	53.41 dB	44.09 dB	43.12 dB	23.92 dBm	45.11 dB	49.80 dB	49.03 dB																																						
Average	53.38 dB	43.98 dB	43.11 dB	23.89 dBm	45.17 dB	49.84 dB	49.14 dB																																						
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max																																													
QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>12 OffRB</th><th>38</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Current</td><td>50.37 dB</td><td>51.23 dB</td><td>46.43 dB</td><td>23.95 dBm</td><td>43.20 dB</td><td>43.95 dB</td><td>53.64 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>50.23 dB</td><td>50.98 dB</td><td>46.31 dB</td><td>23.94 dBm</td><td>43.10 dB</td><td>43.89 dB</td><td>53.61 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	ACLR											Current	50.37 dB	51.23 dB	46.43 dB	23.95 dBm	43.20 dB	43.95 dB	53.64 dB				Average	50.23 dB	50.98 dB	46.31 dB	23.94 dBm	43.10 dB	43.89 dB	53.61 dB			
Det. Alloc.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																																			
ACLR																																													
Current	50.37 dB	51.23 dB	46.43 dB	23.95 dBm	43.20 dB	43.95 dB	53.64 dB																																						
Average	50.23 dB	50.98 dB	46.31 dB	23.94 dBm	43.10 dB	43.89 dB	53.61 dB																																						
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0																																													
QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>50 OffRB</th><th>9</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Current</td><td>49.01 dB</td><td>46.06 dB</td><td>43.23 dB</td><td>22.84 dBm</td><td>41.26 dB</td><td>44.52 dB</td><td>45.38 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>48.24 dB</td><td>45.95 dB</td><td>43.31 dB</td><td>22.87 dBm</td><td>41.40 dB</td><td>44.62 dB</td><td>45.58 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	50 OffRB	9	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	ACLR											Current	49.01 dB	46.06 dB	43.23 dB	22.84 dBm	41.26 dB	44.52 dB	45.38 dB				Average	48.24 dB	45.95 dB	43.31 dB	22.87 dBm	41.40 dB	44.62 dB	45.58 dB			
Det. Alloc.	NoRB	50 OffRB	9	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																																			
ACLR																																													
Current	49.01 dB	46.06 dB	43.23 dB	22.84 dBm	41.26 dB	44.52 dB	45.38 dB																																						
Average	48.24 dB	45.95 dB	43.31 dB	22.87 dBm	41.40 dB	44.62 dB	45.58 dB																																						
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0																																													

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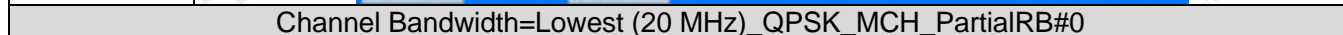
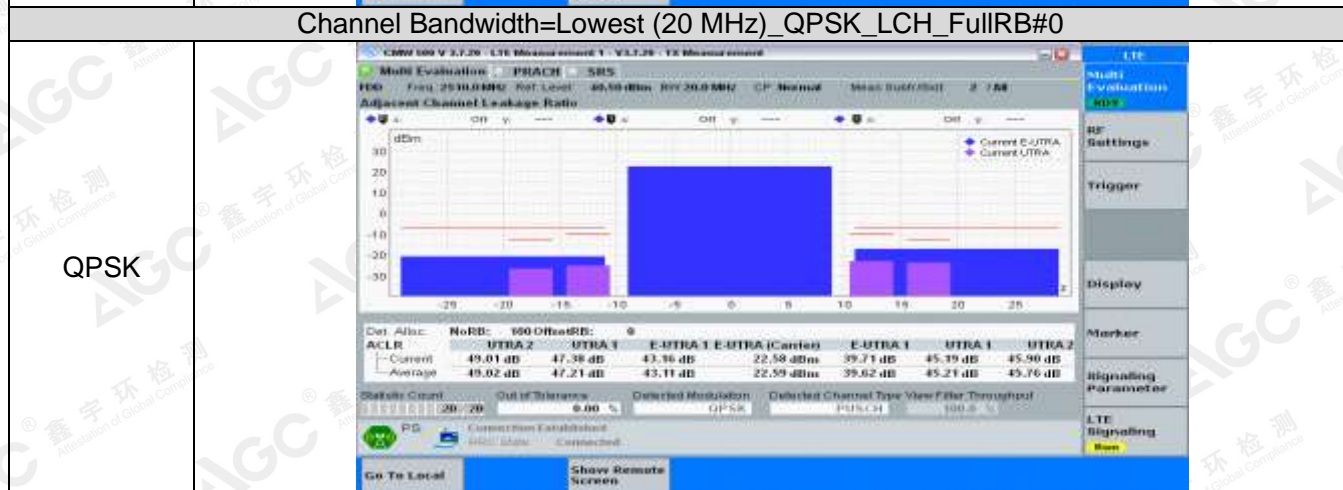
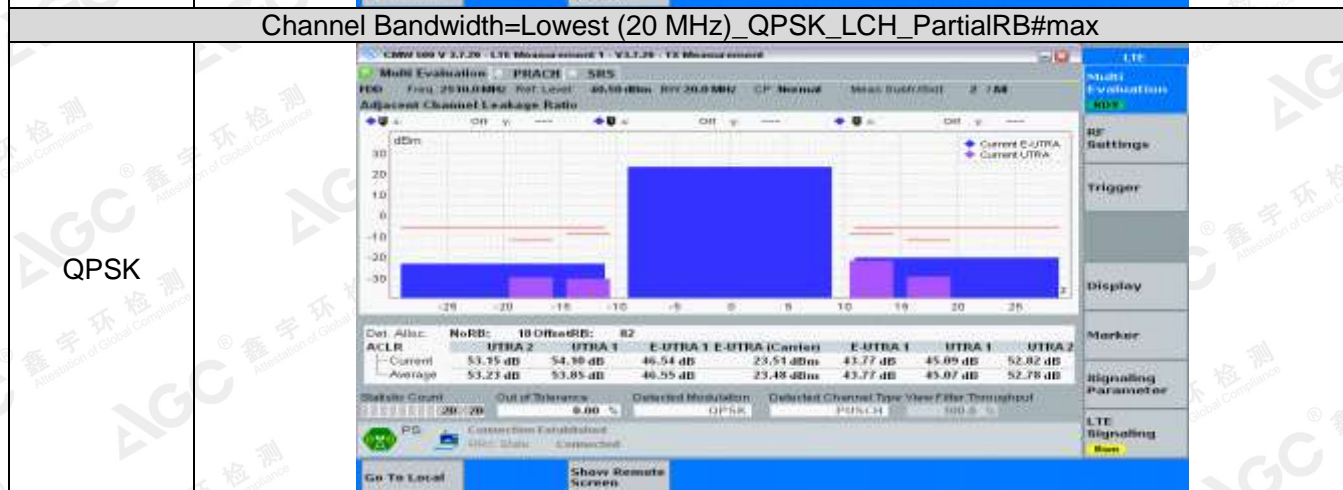
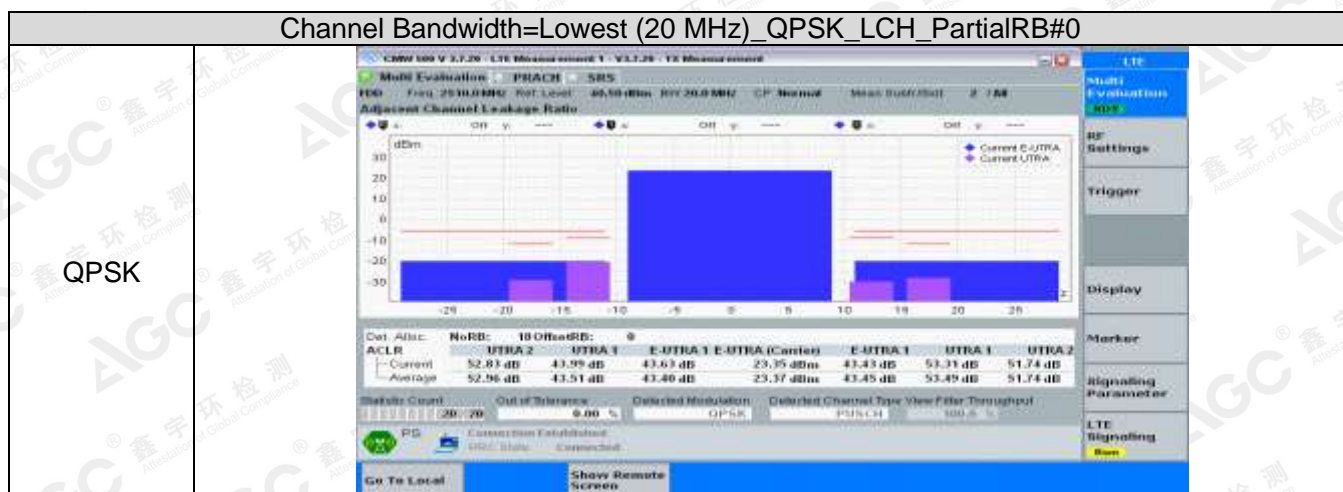


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Channel Bandwidth=Highest (20 MHz)



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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

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QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

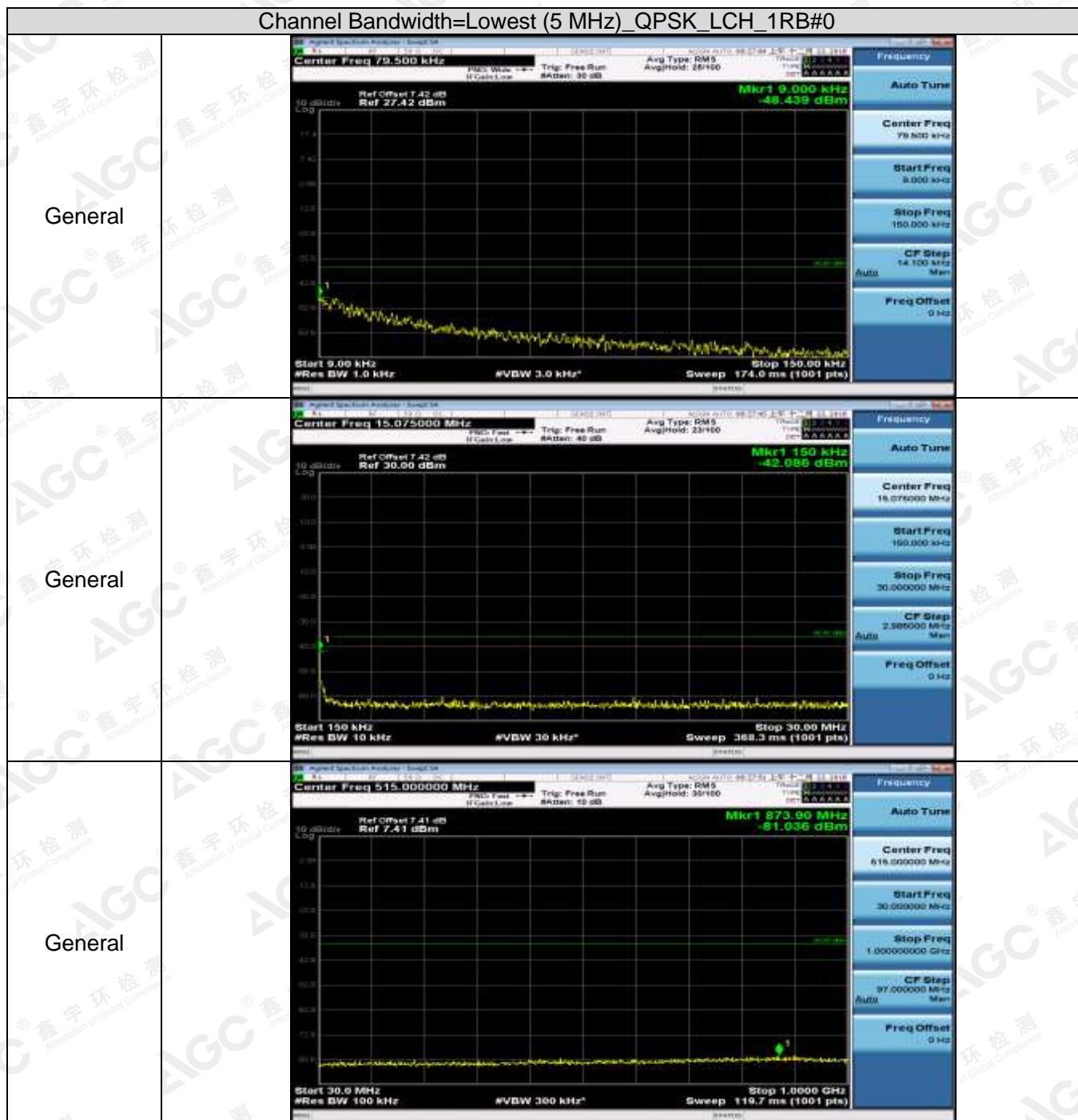
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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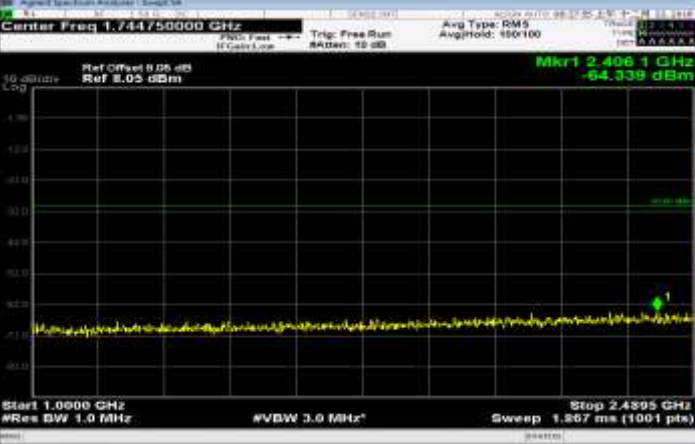
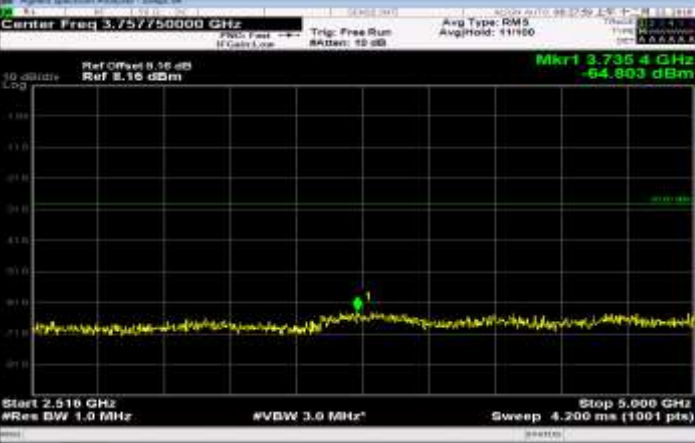

Test Graphs

NTNV


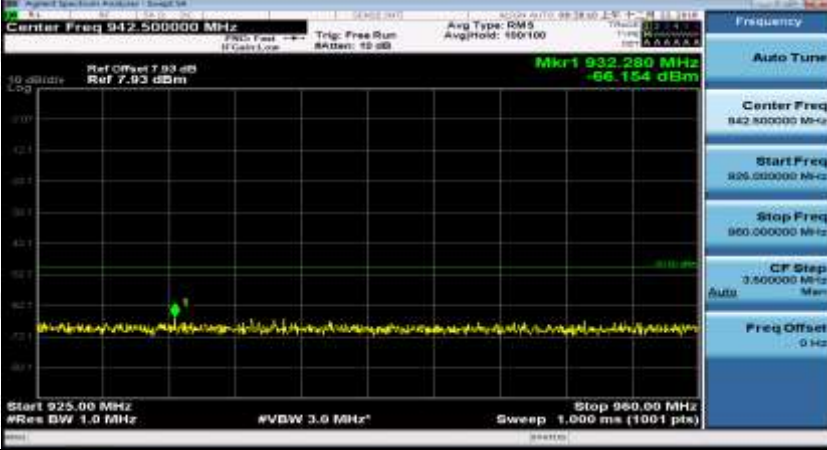
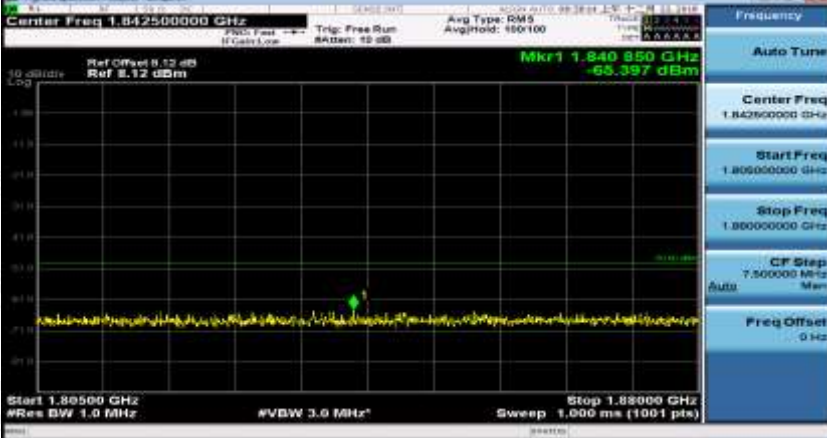
Channel Bandwidth=Lowest (5 MHz)



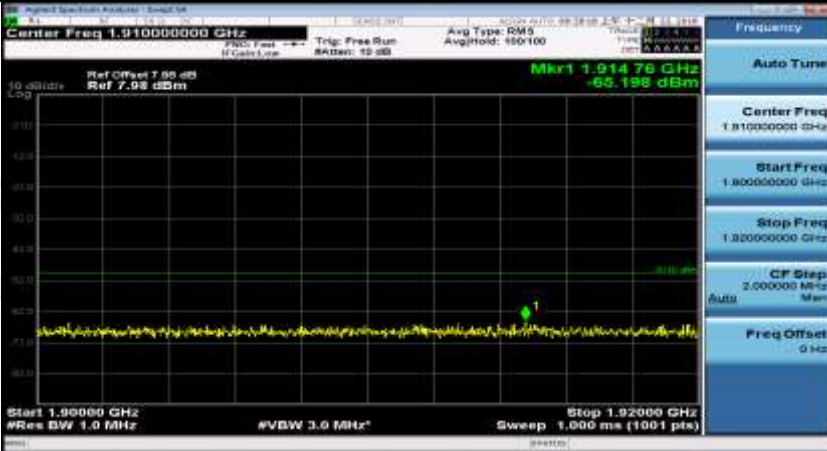
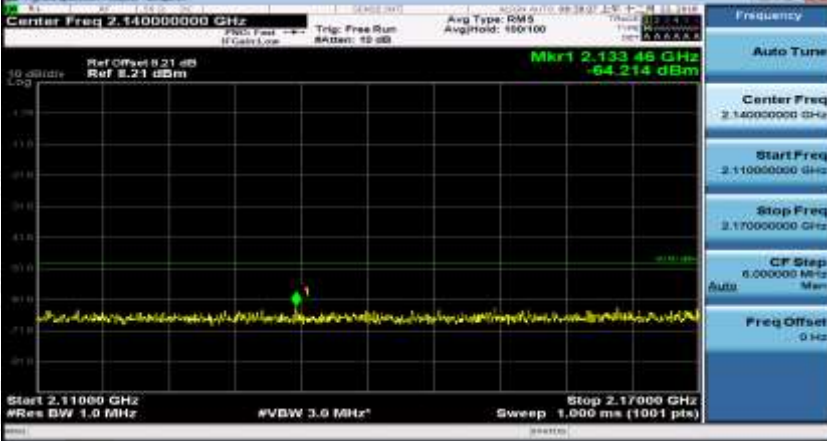
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.74450000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 2.48950000 GHz</p> <p>CF Step 140.360000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.73540000 GHz</p> <p>Start Freq 2.51500000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 348.460000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.91375000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>

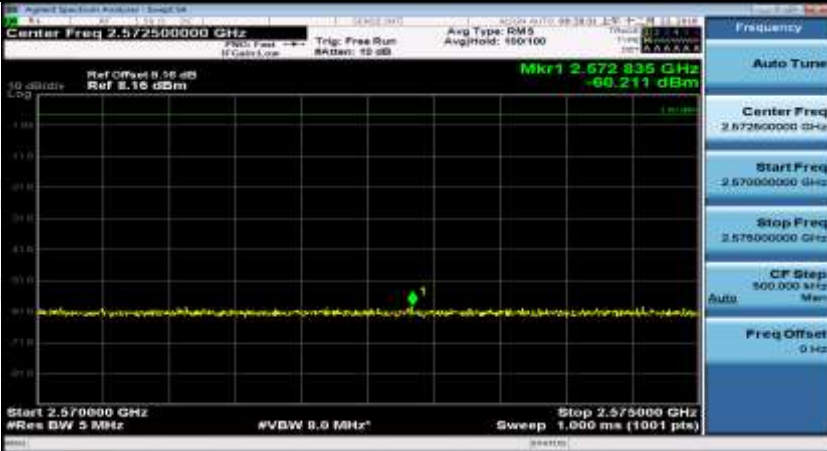
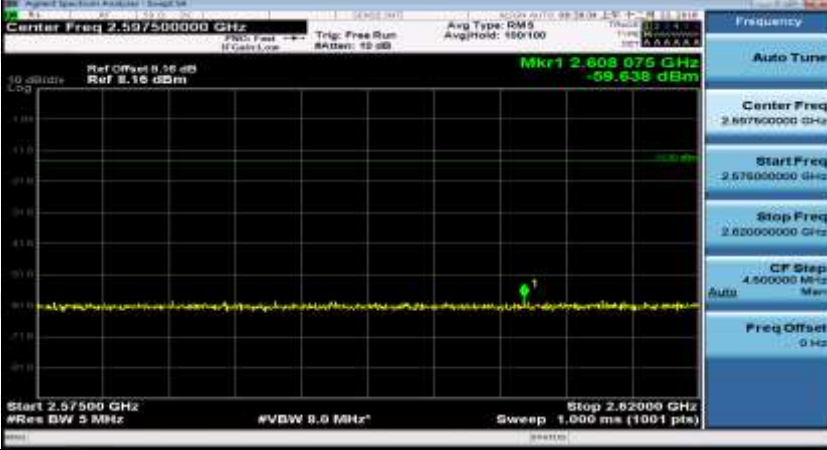
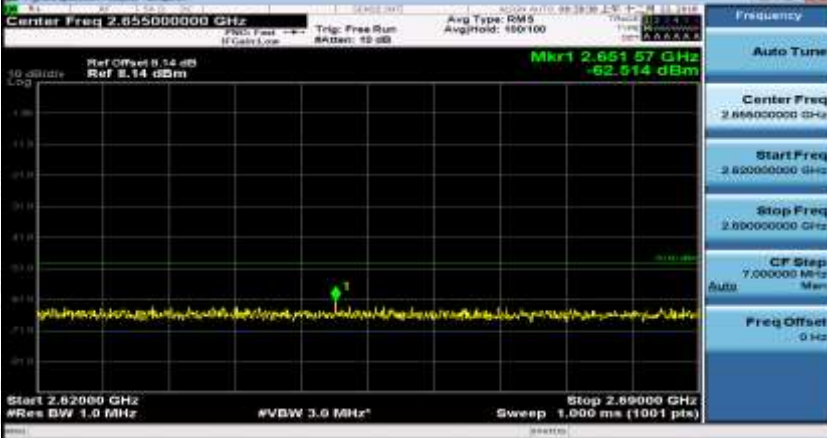
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Co-existence	
Co-existence	
Co-existence	

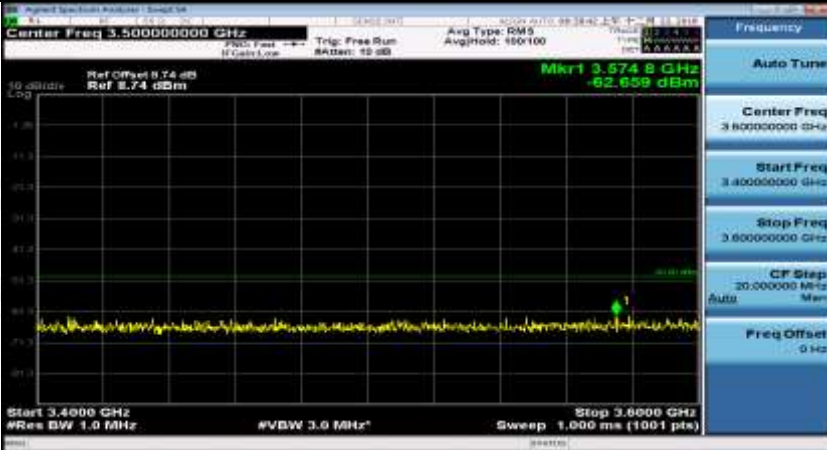
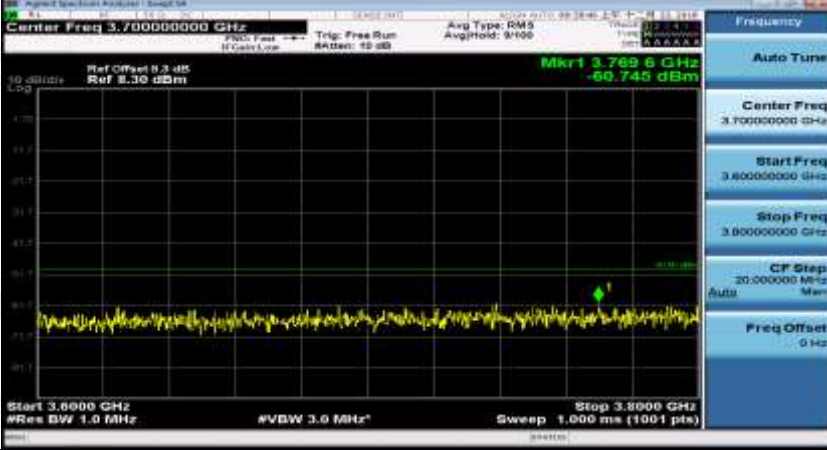
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Co-existence	

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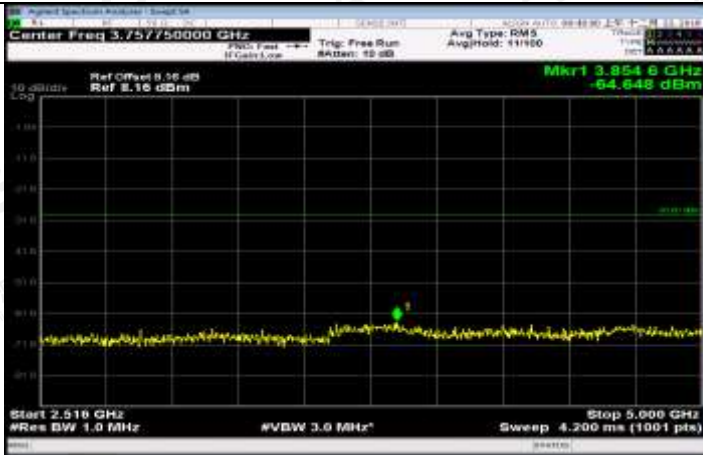
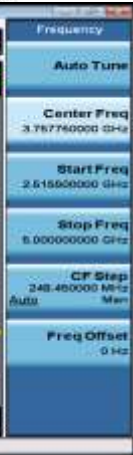


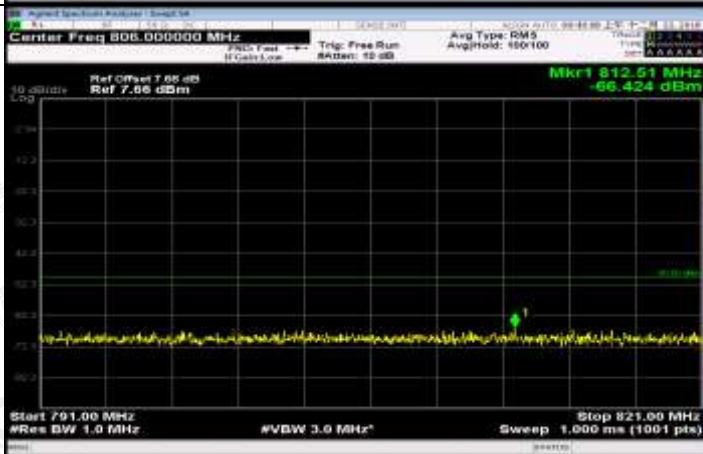

Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	

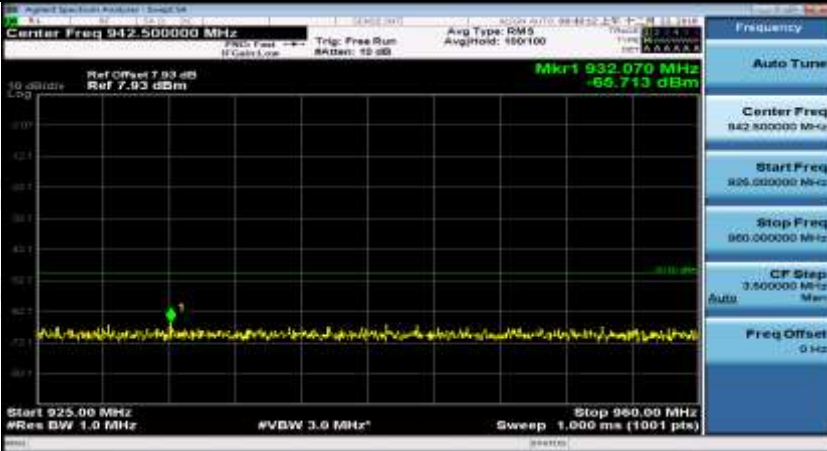
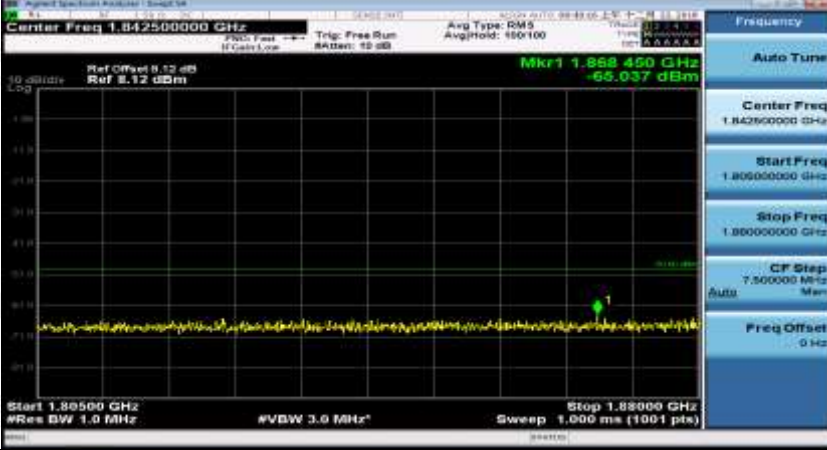
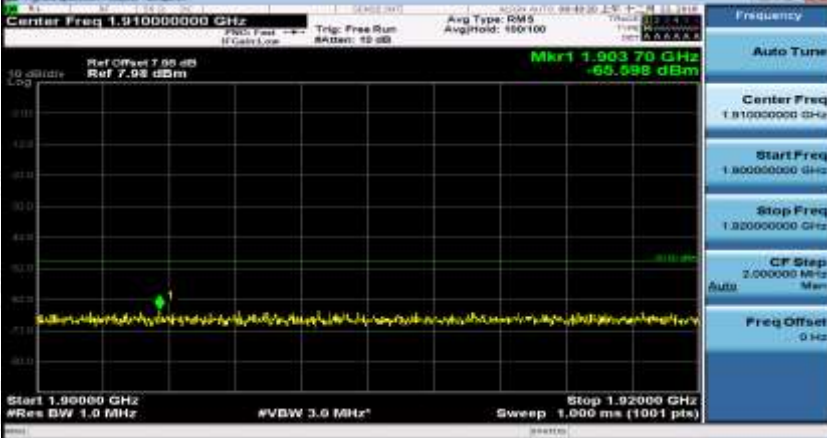
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General			
General			
General			

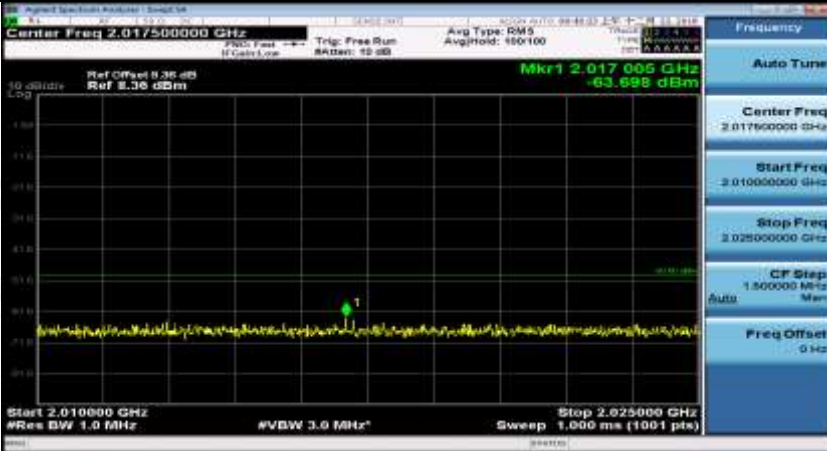
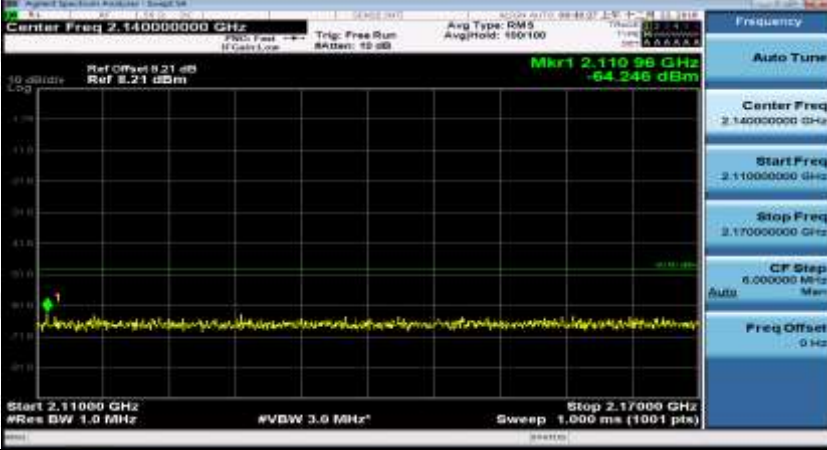

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General			
General			
Co-existence			

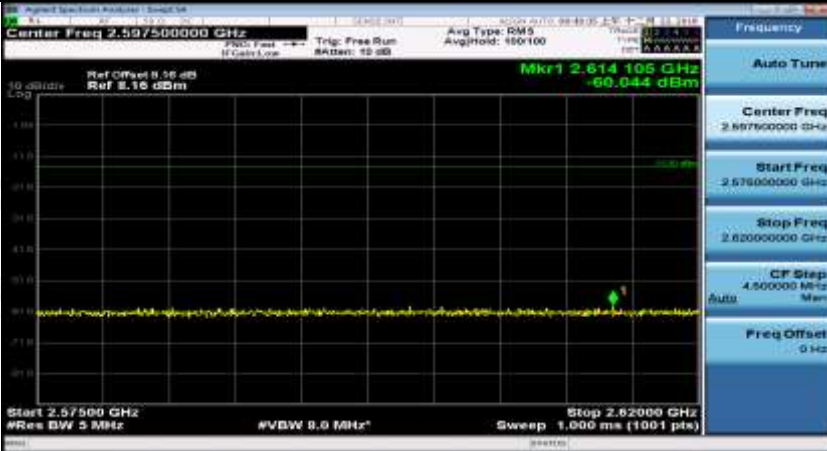
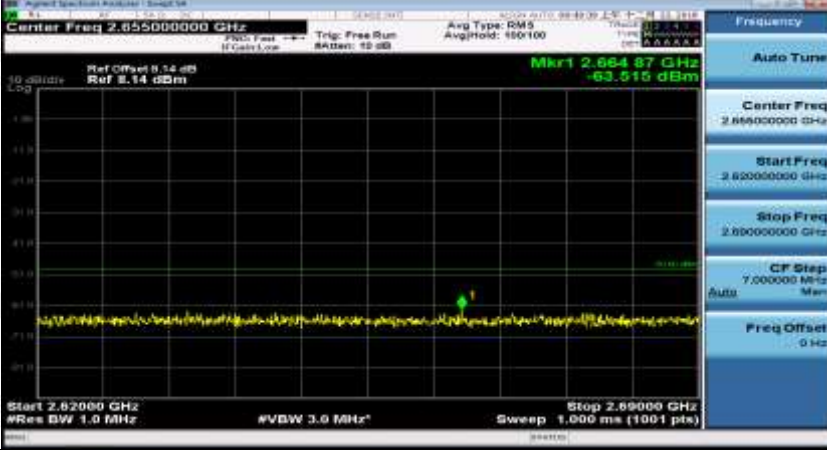
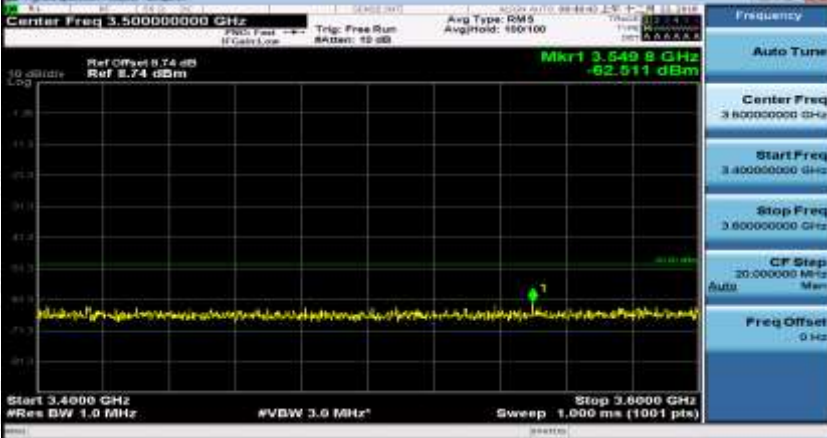
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Co-existence	
Co-existence	
Co-existence	

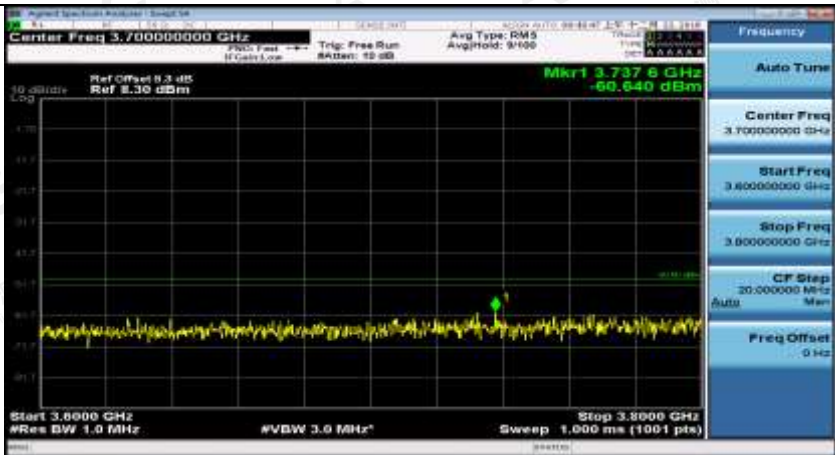
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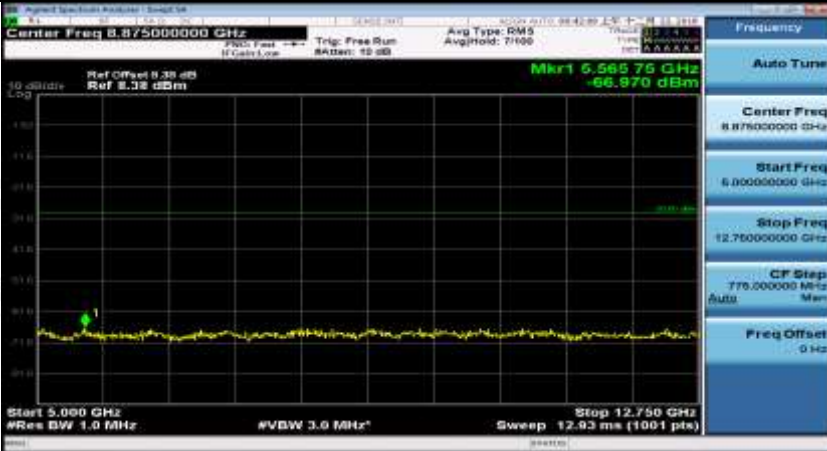
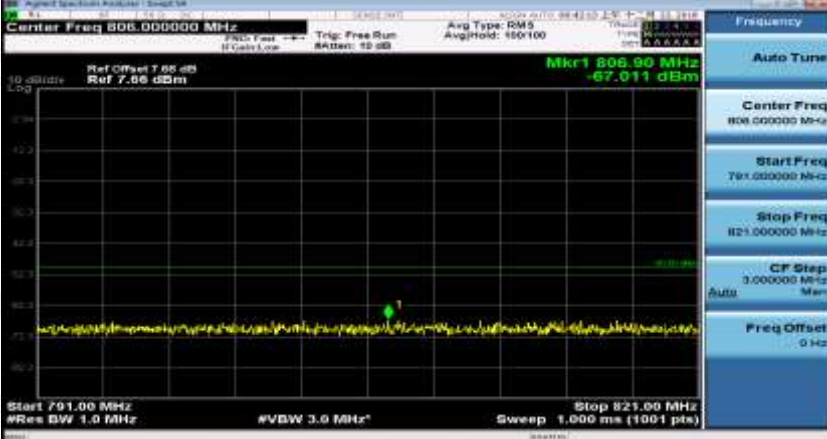

Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
General	
General	

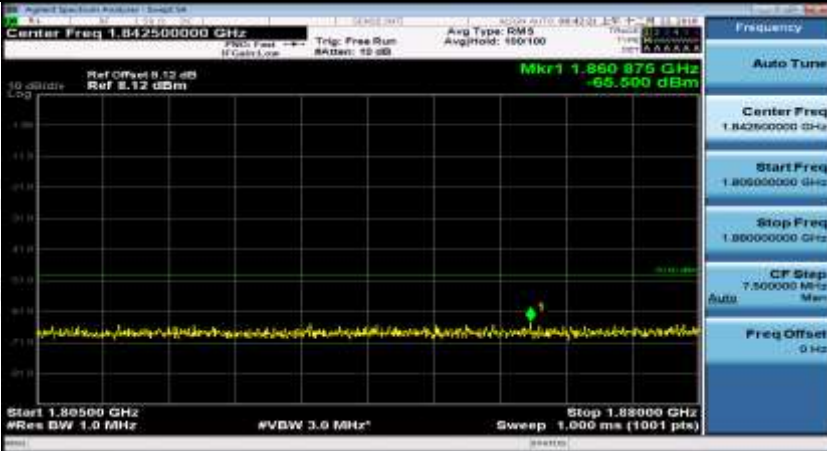
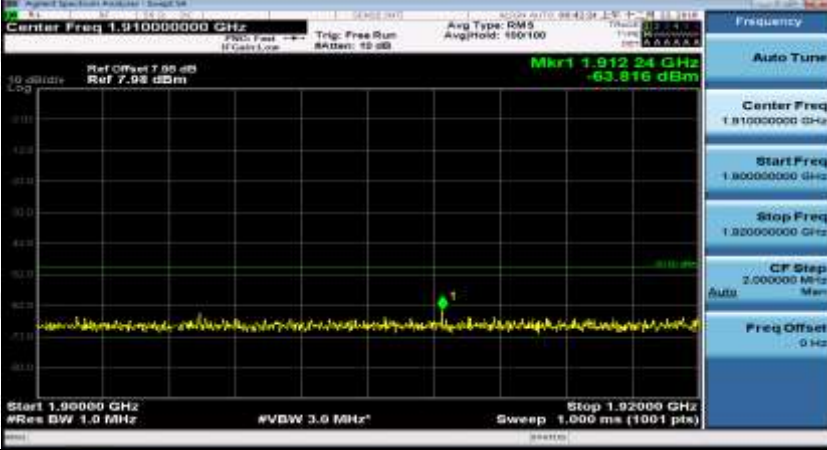
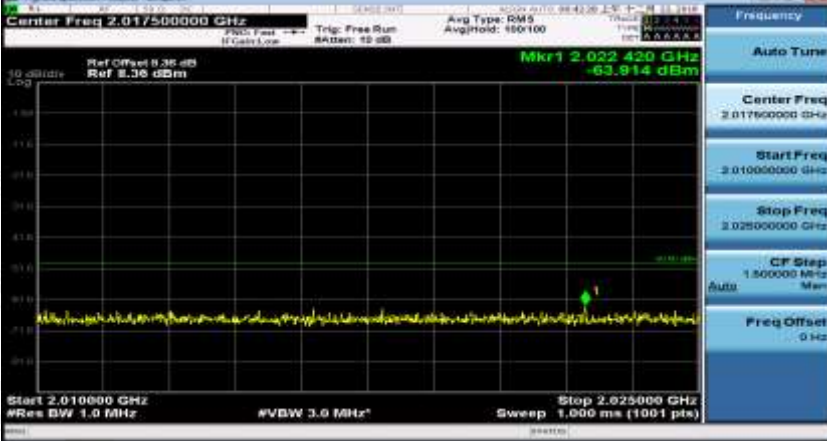
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General	
General	
General	

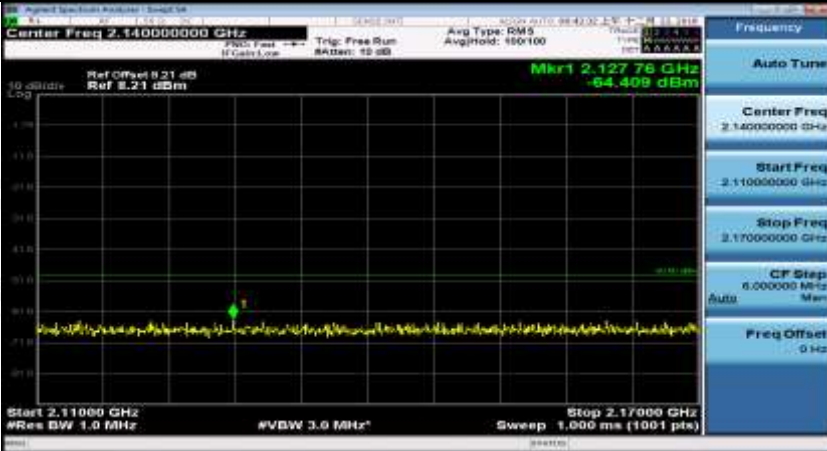
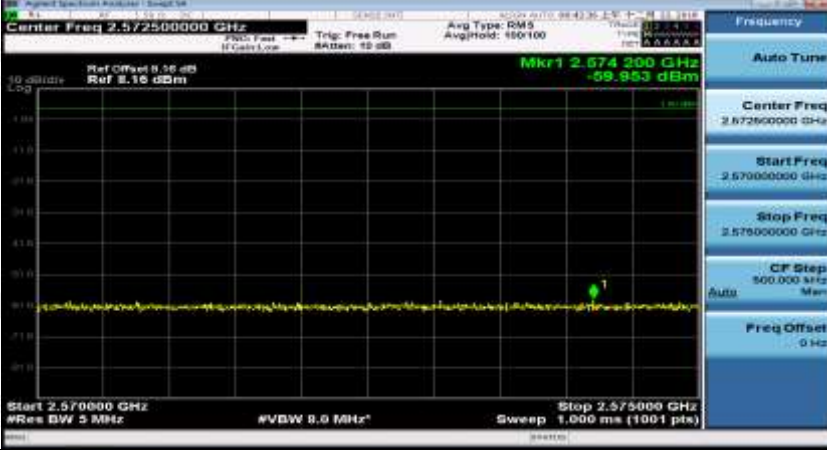
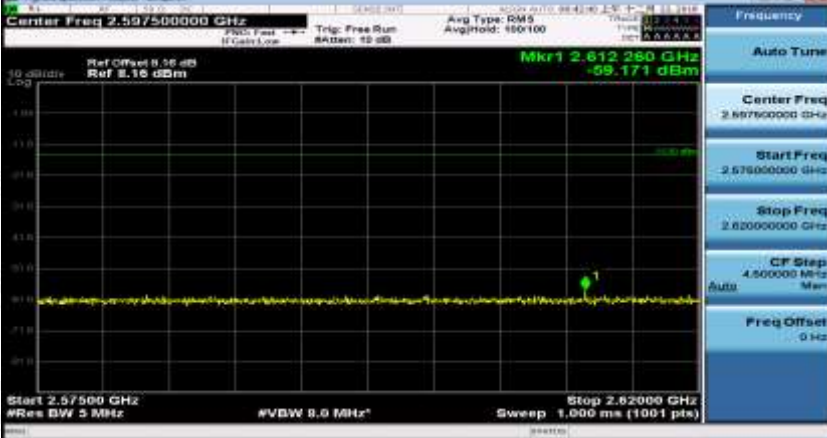
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General	
Co-existence	
Co-existence	

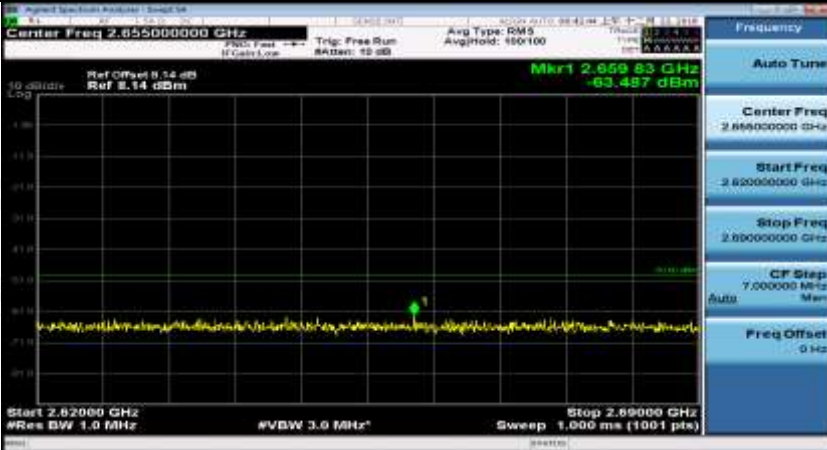

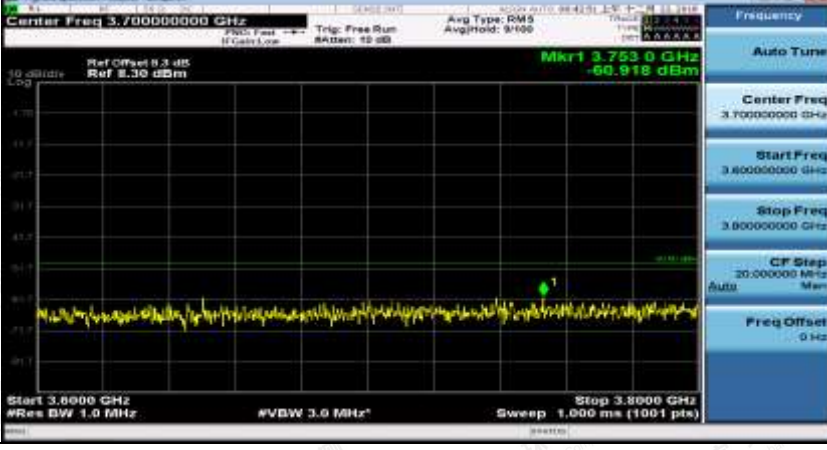
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Co-existence	
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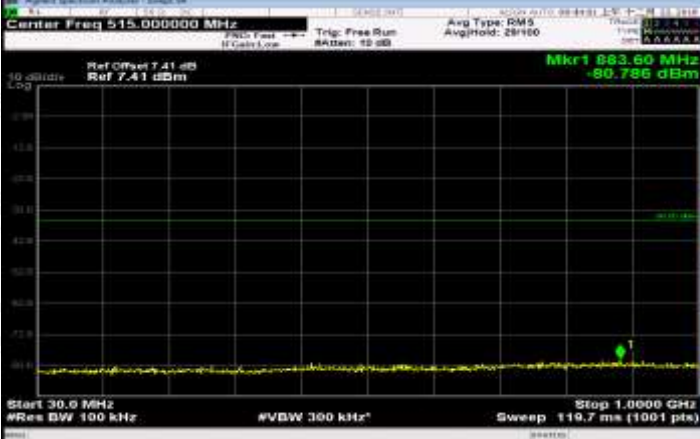
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Co-existence	
Co-existence	
Co-existence	
Additional	NA


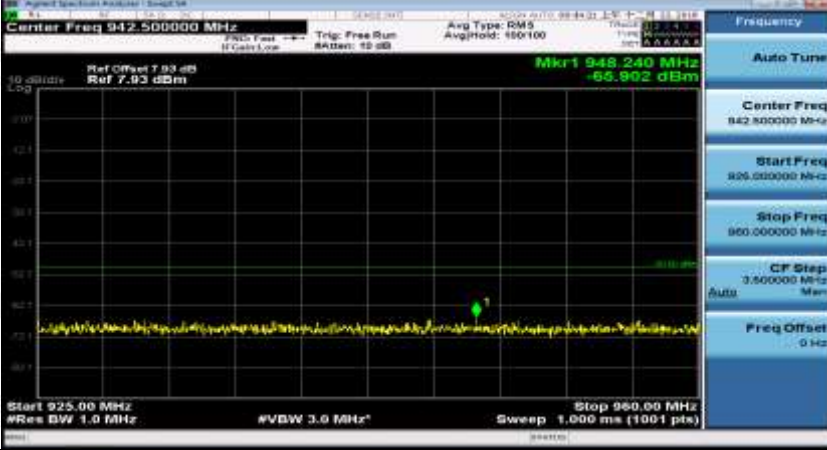

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Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0			
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 9.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.385000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

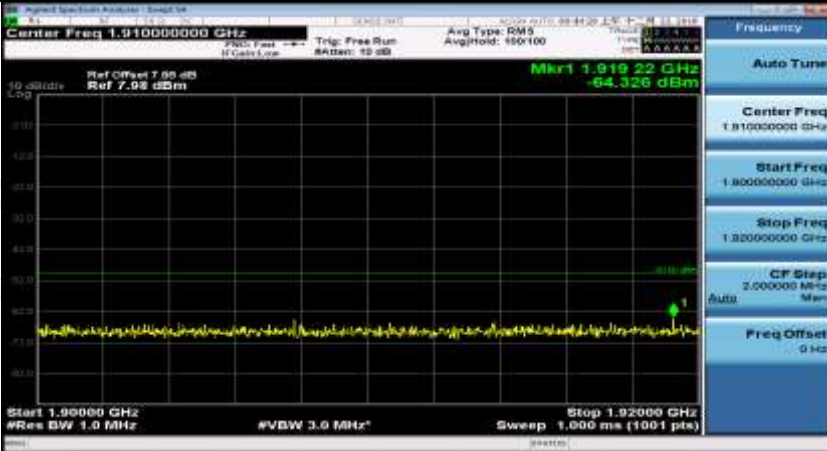
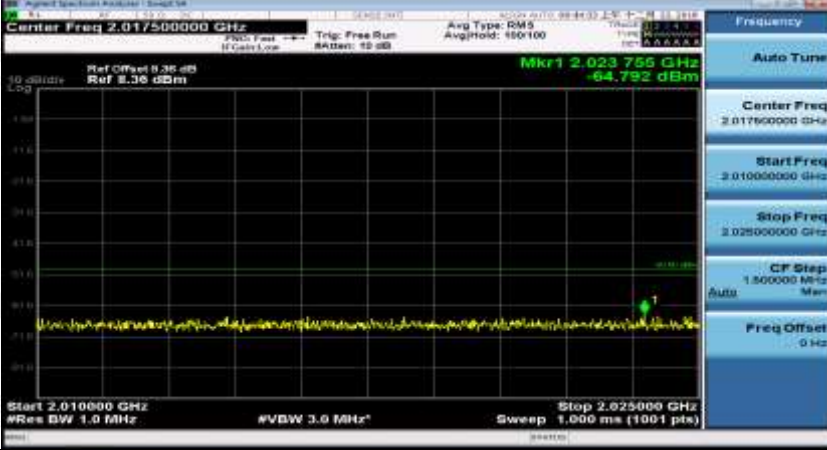
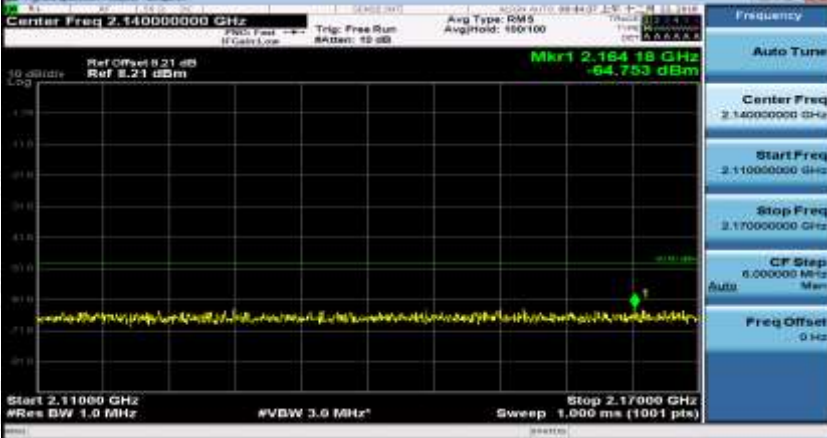
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General	
General	
General	


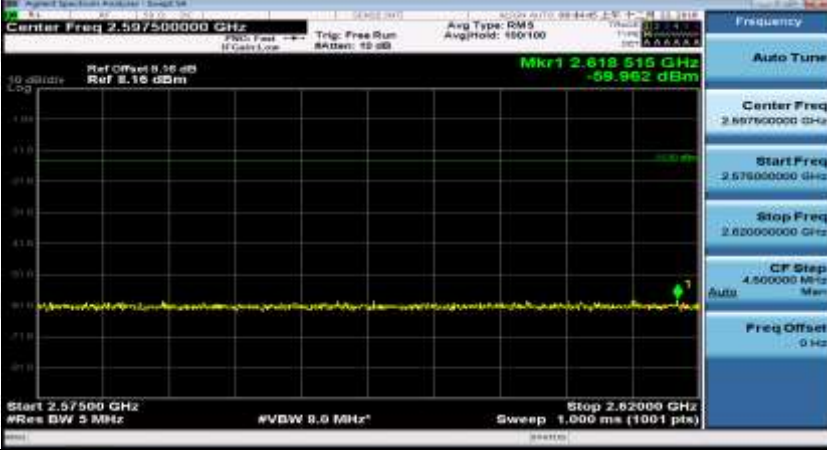
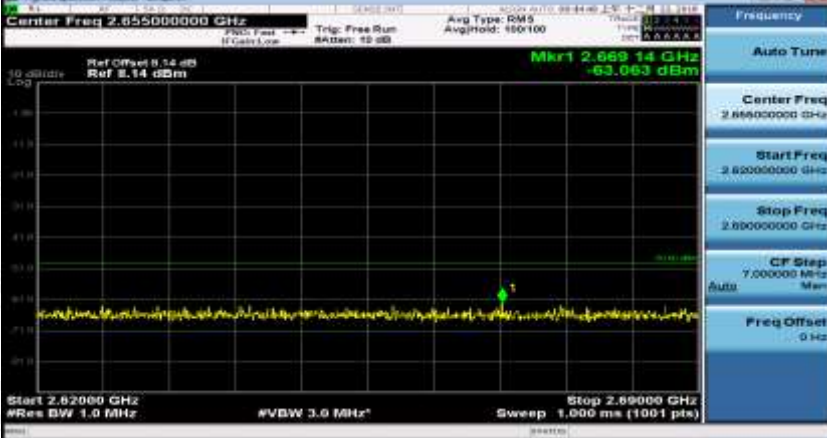
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Co-existence	
Co-existence	
Co-existence	

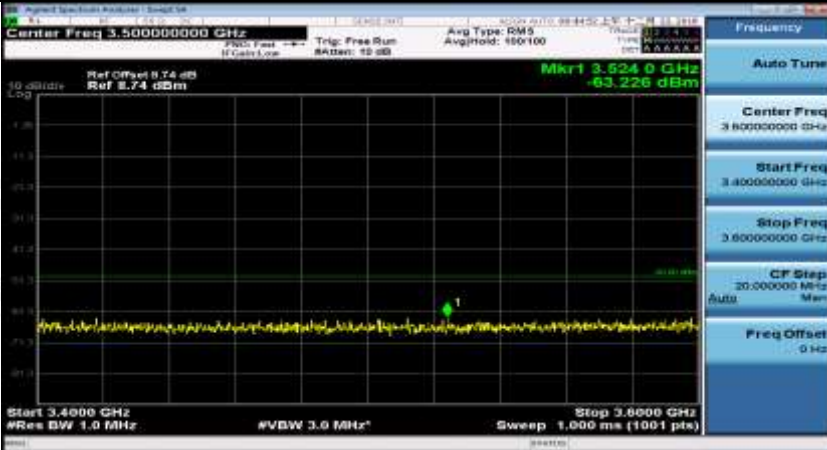
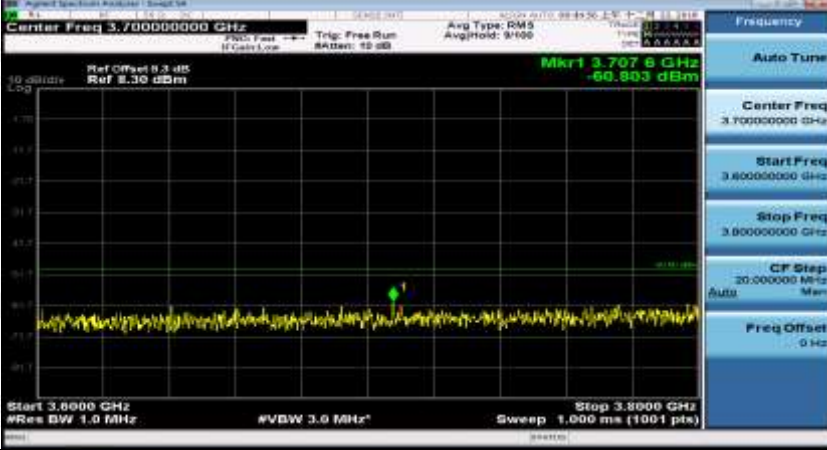
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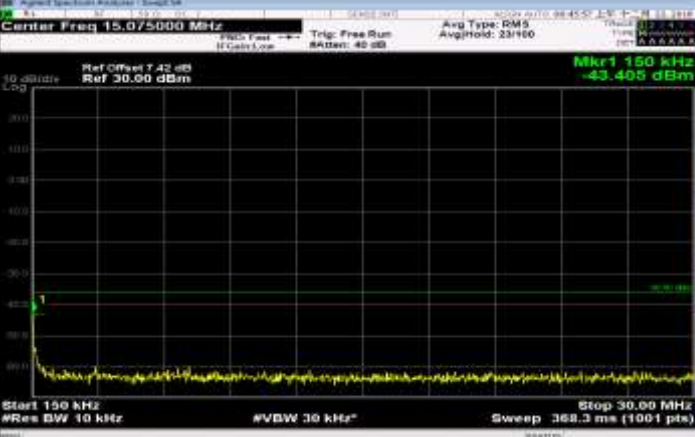

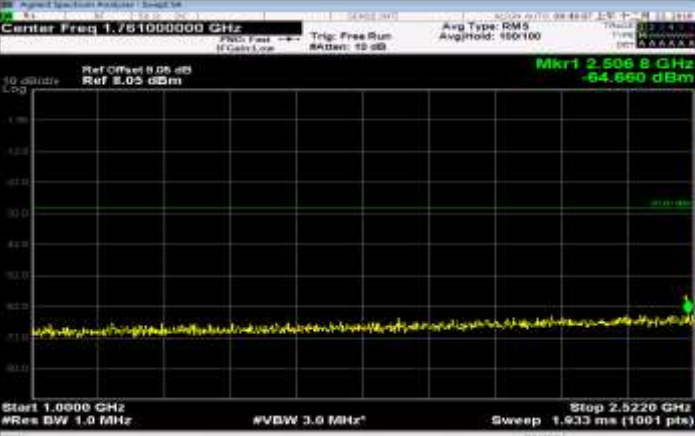
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	


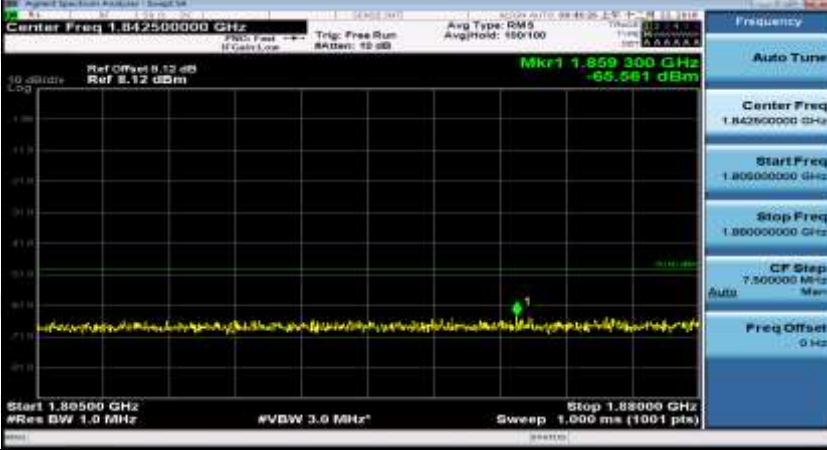
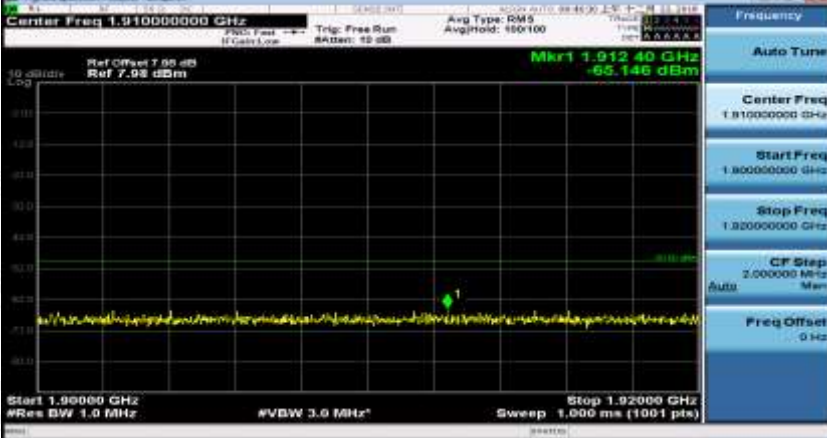
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General			
General			
General			

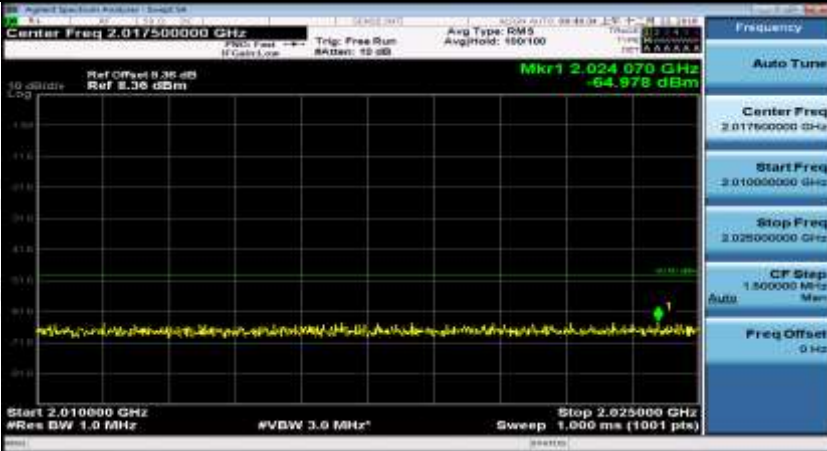
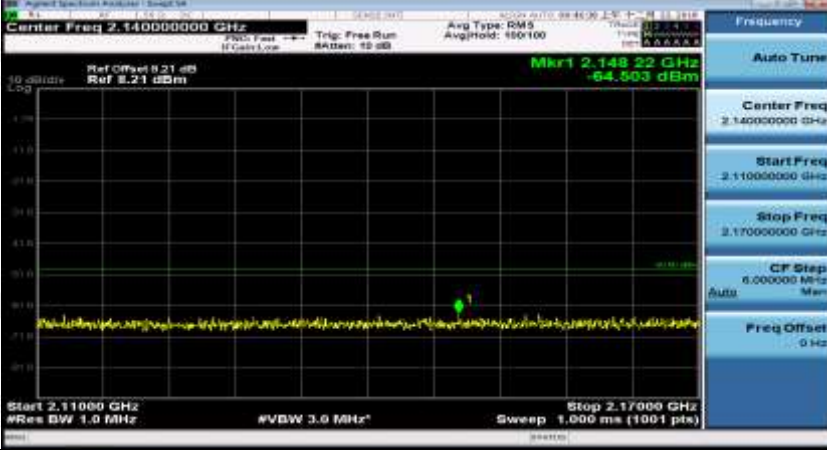

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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.774000000 GHz</p> <p>Start Freq 2.548000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 245.2000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.0000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.0000000 MHz</p> <p>Start Freq 791.0000000 MHz</p> <p>Stop Freq 821.0000000 MHz</p> <p>CF Step 3.0000000 MHz</p> <p>Freq Offset 0 Hz</p>

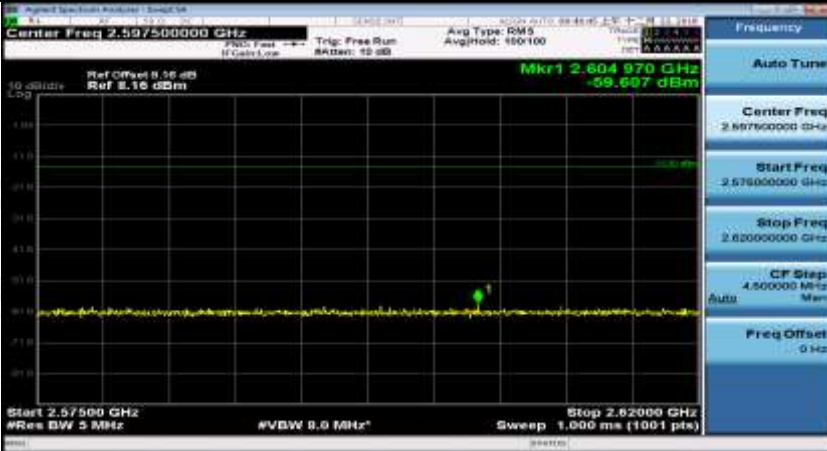

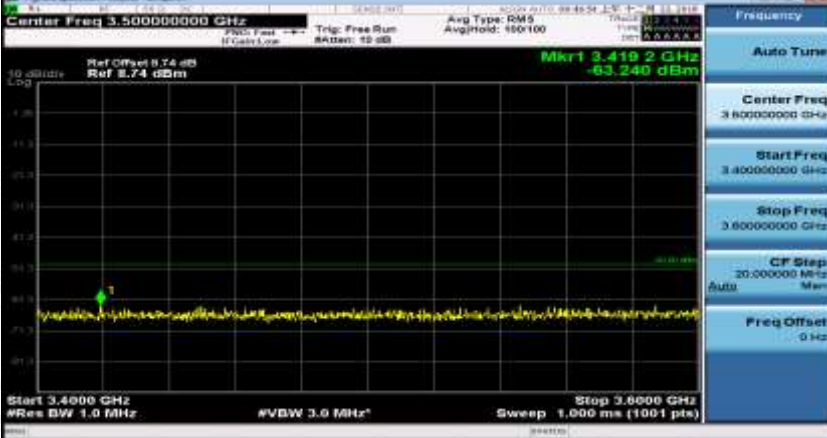
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Co-existence	
Co-existence	
Co-existence	

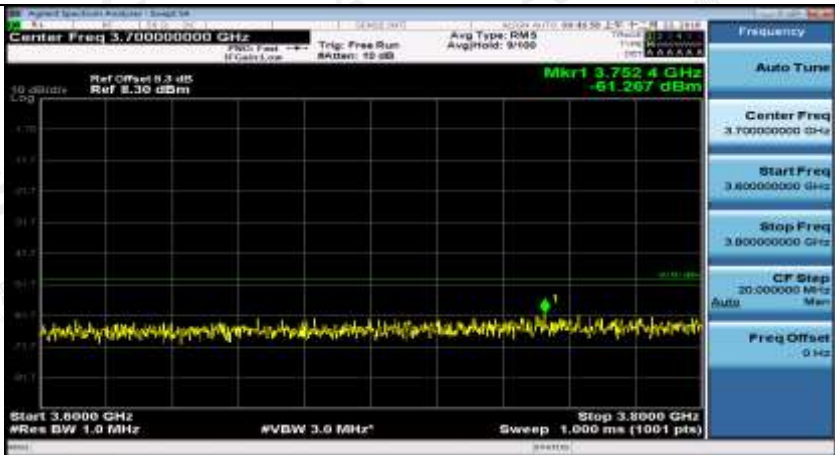
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



Co-existence	
Co-existence	
Co-existence	

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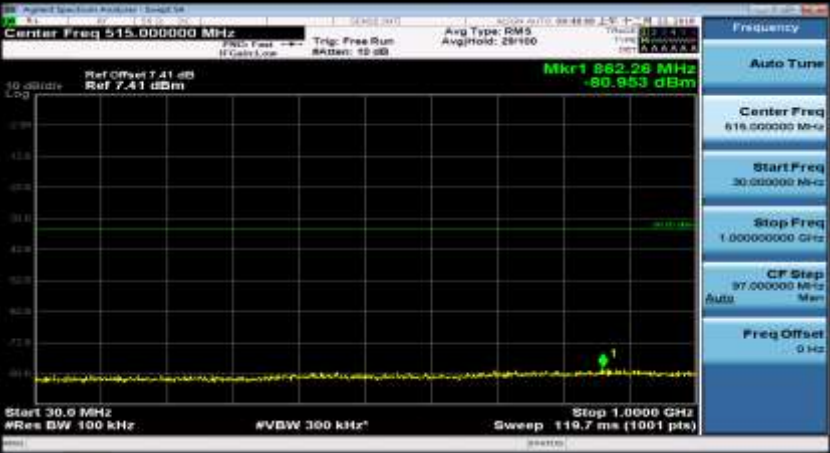


Co-existence	
Co-existence	
Co-existence	

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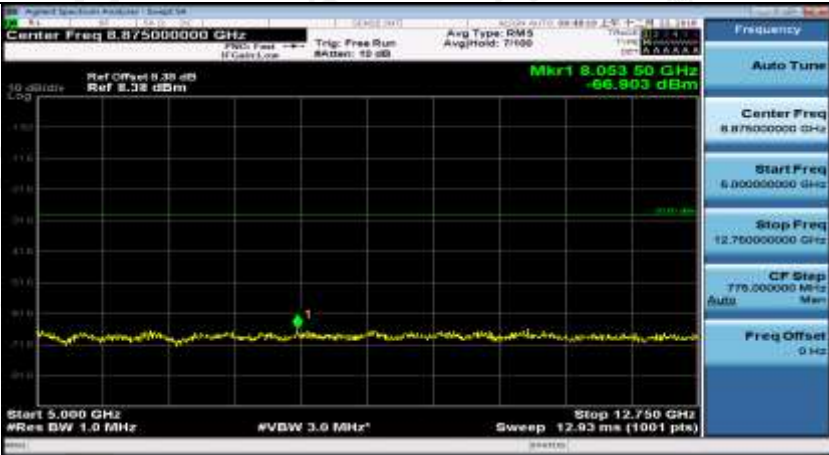
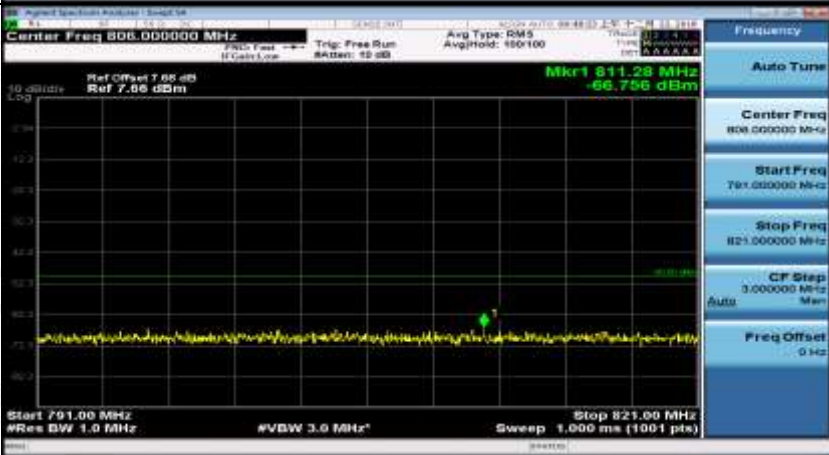
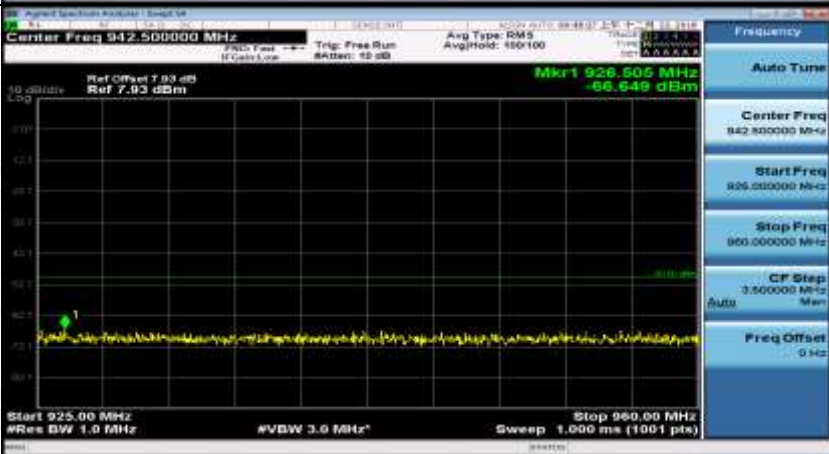
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0	
General	
General	

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General	
General	
General	

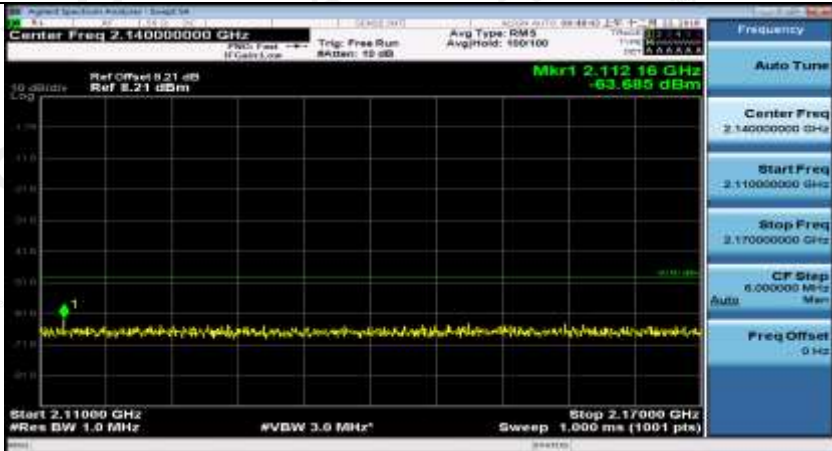
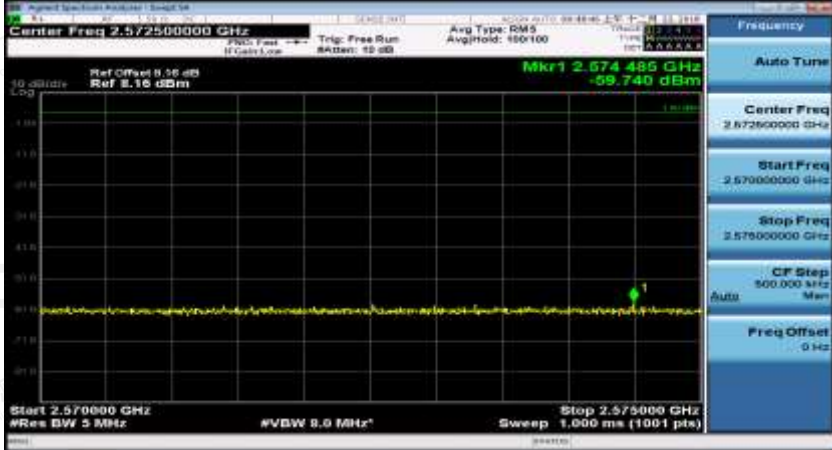
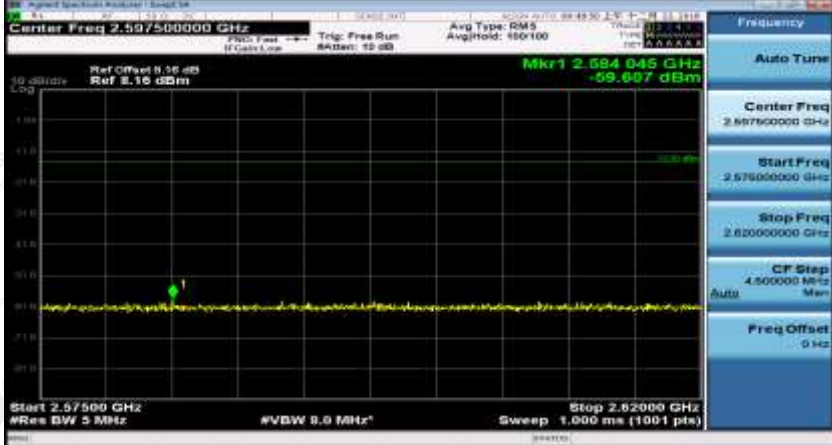
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General		
Co-existence		
Co-existence		

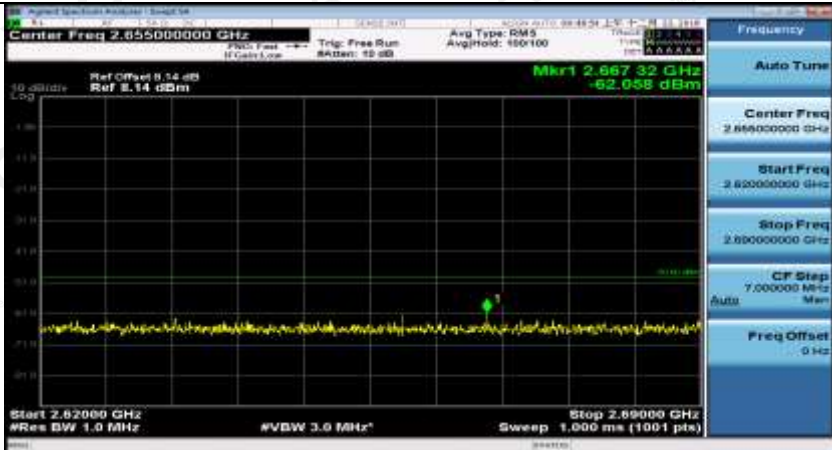


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Co-existence	
Co-existence	
Co-existence	

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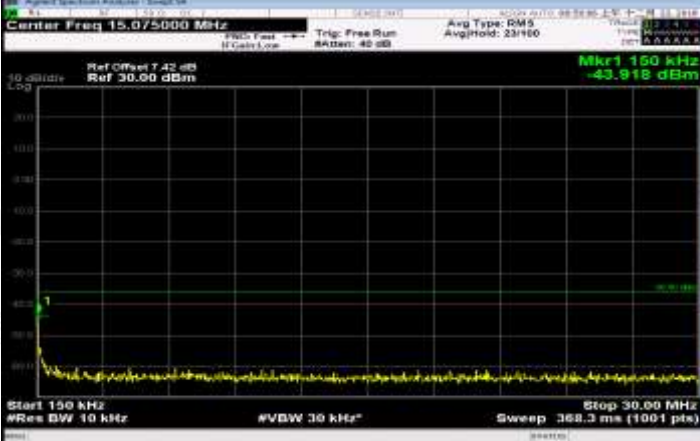
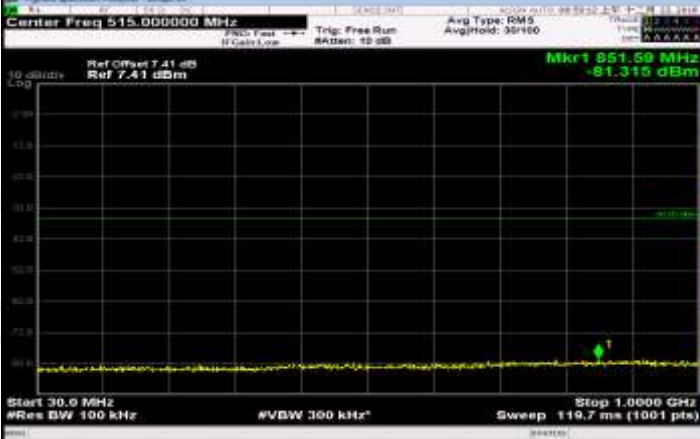
Co-existence	
Co-existence	
Co-existence	

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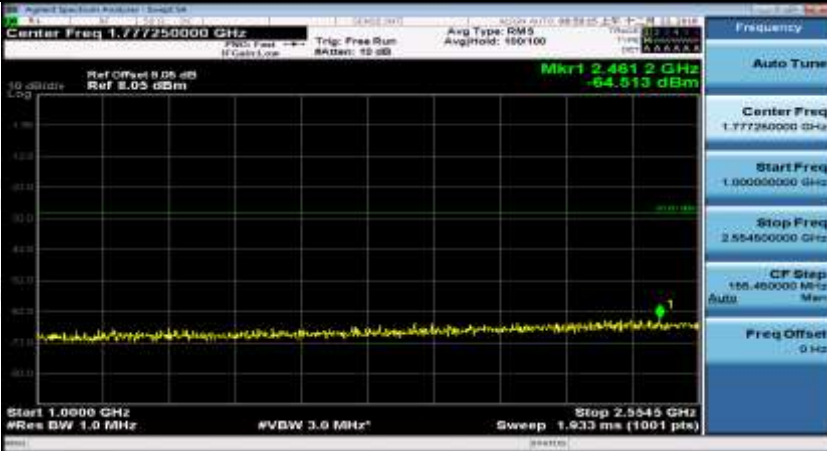

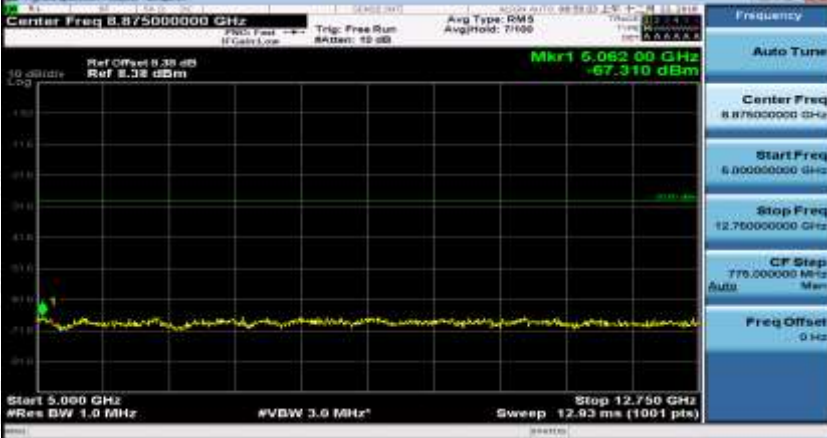
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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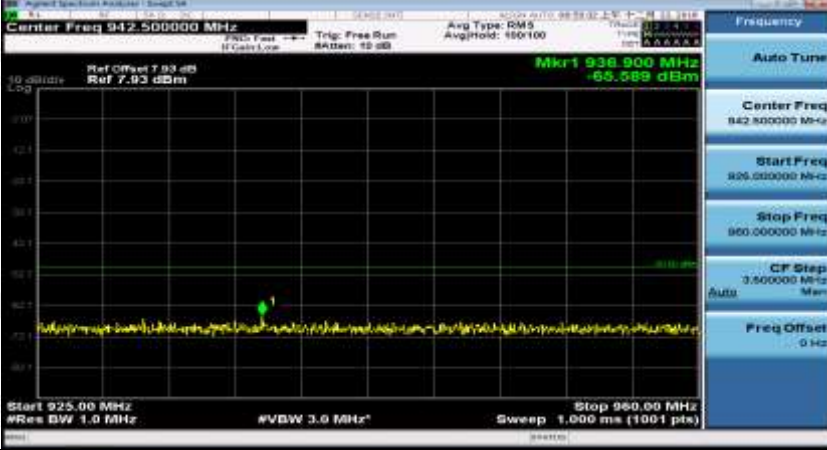
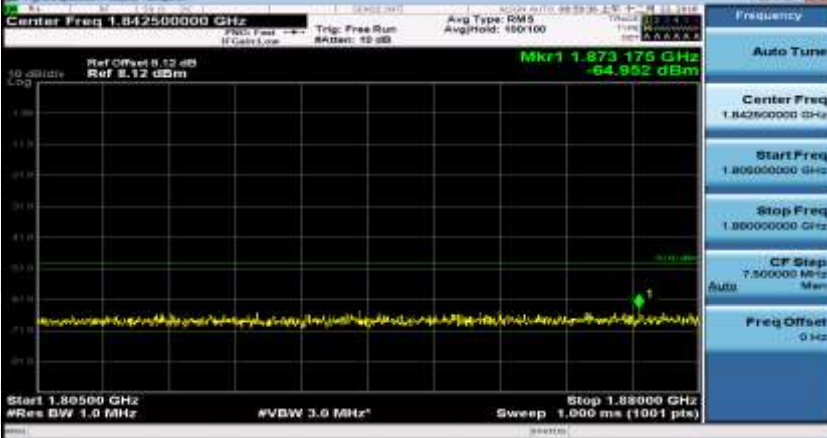
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

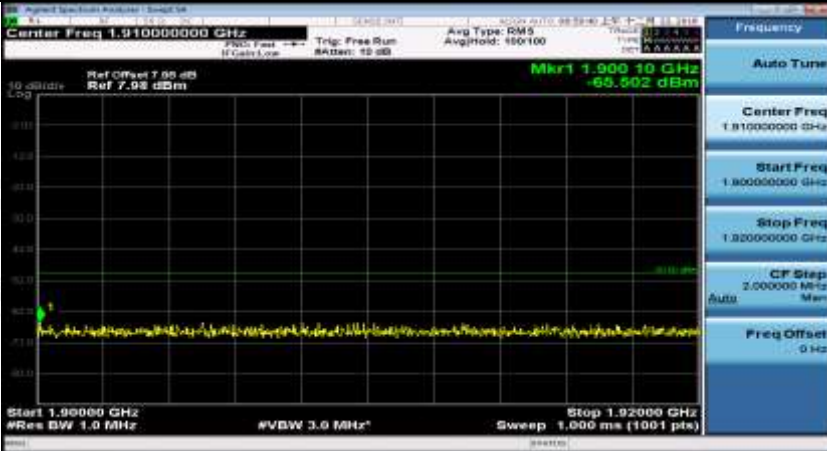
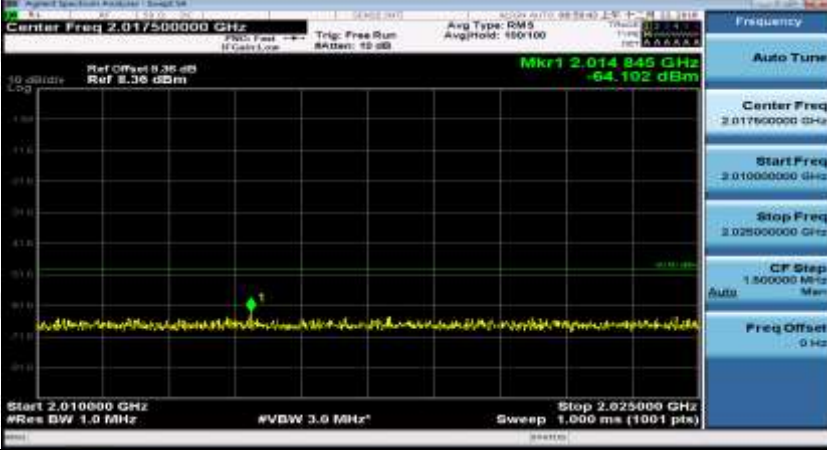
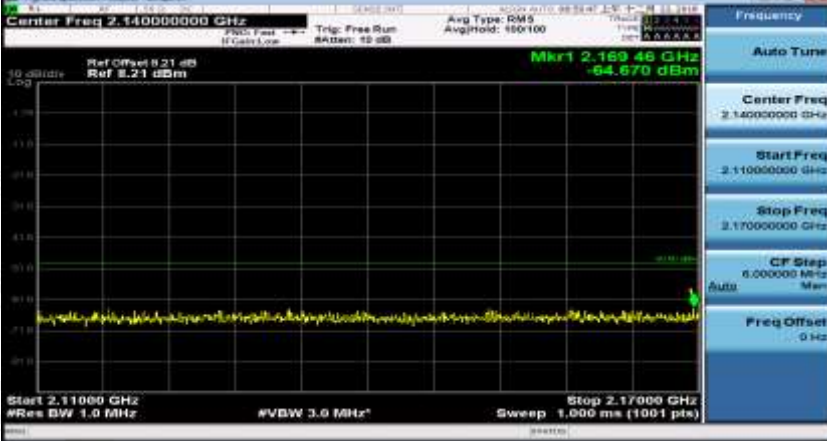
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General	
General	
General	

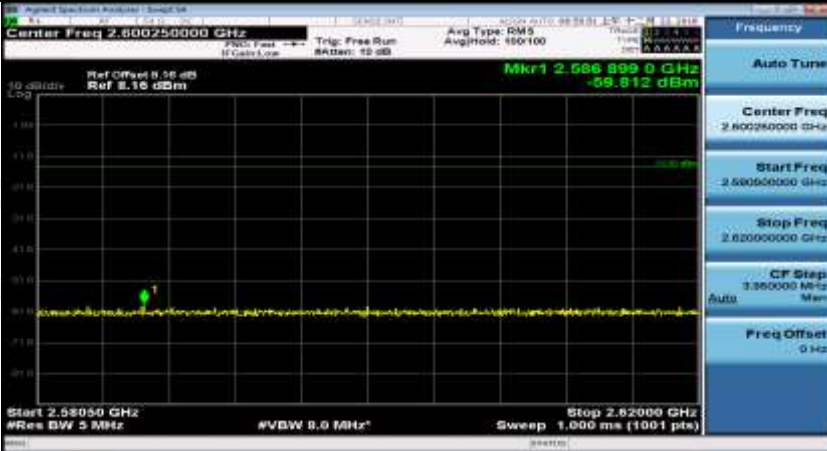
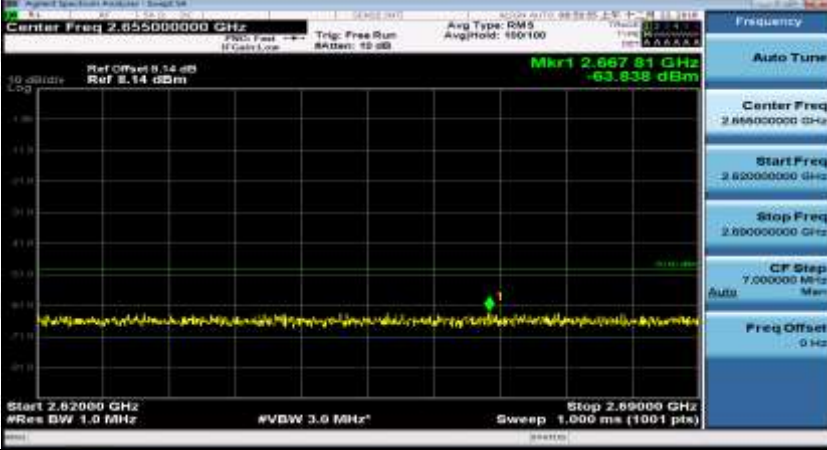
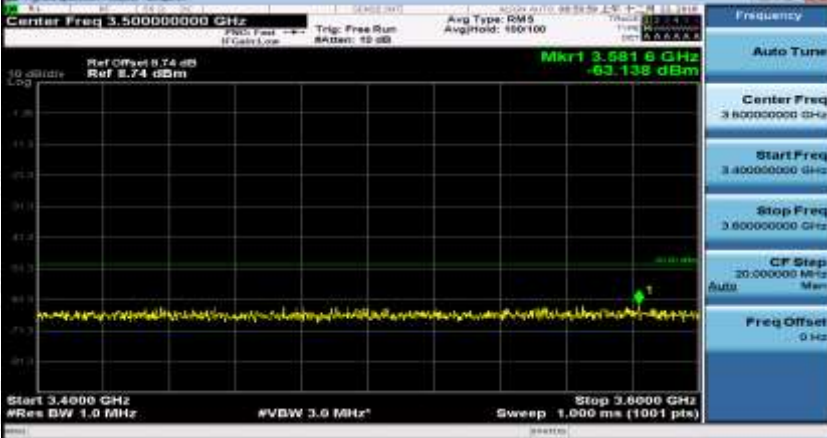
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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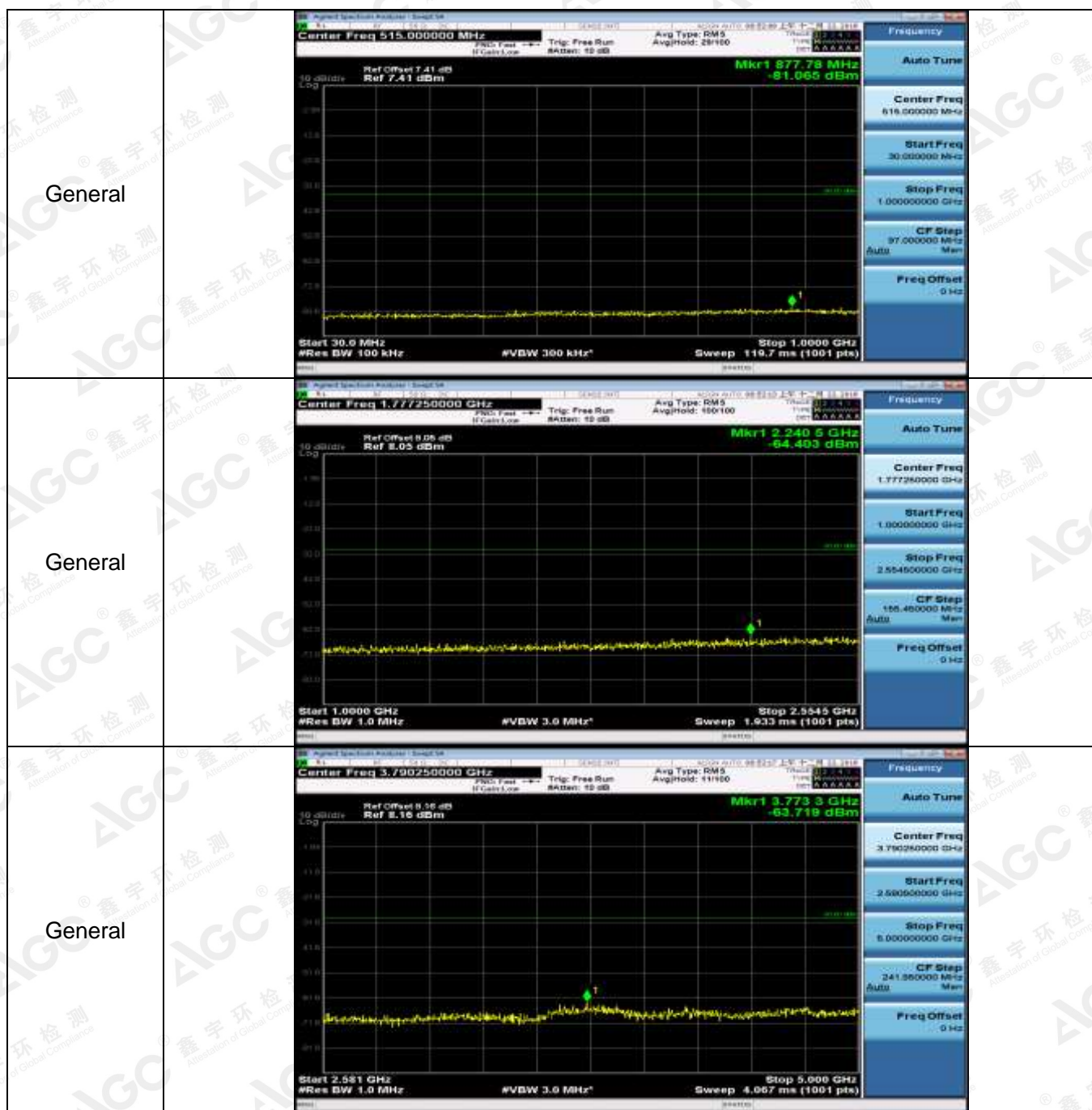
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

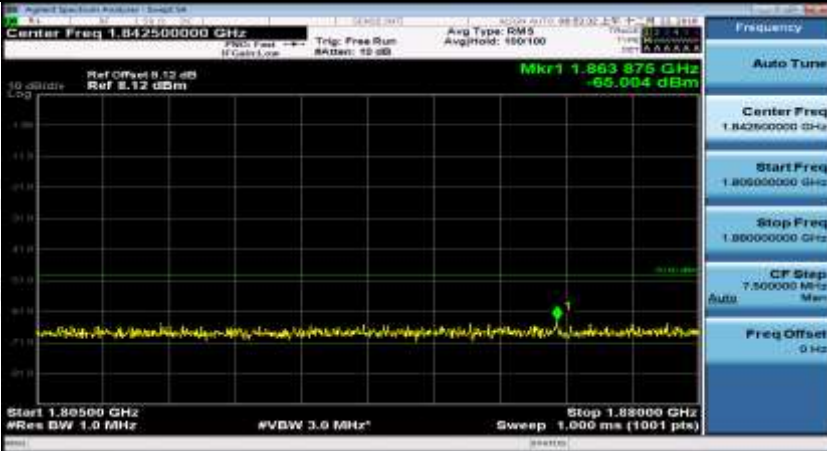
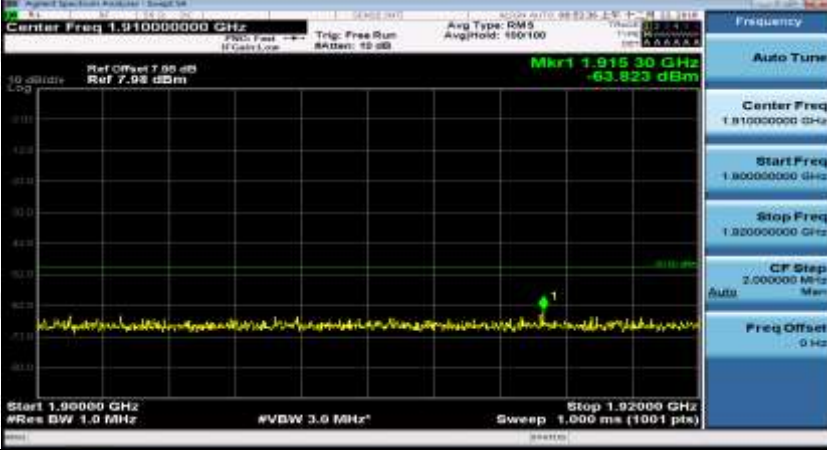

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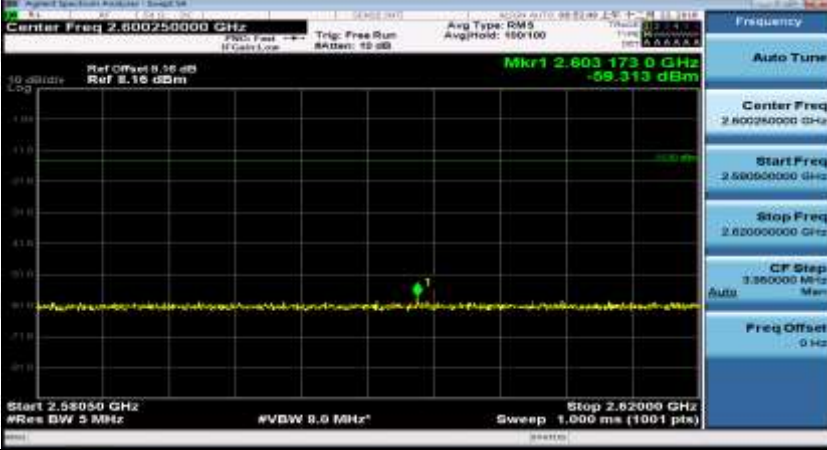
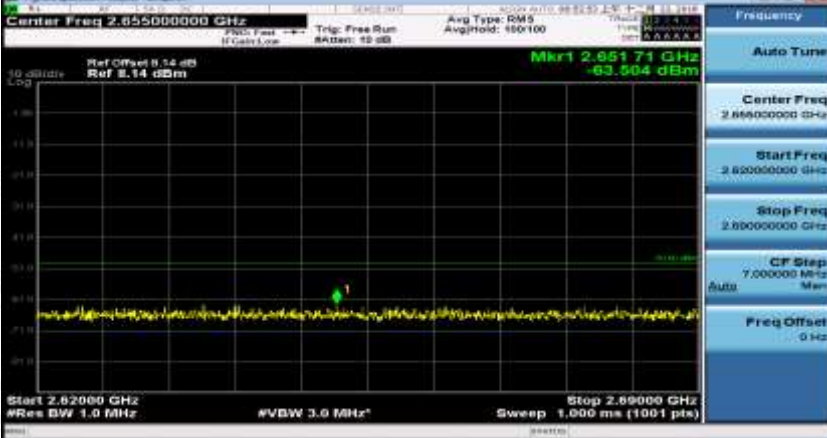
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General			
Co-existence			
Co-existence			


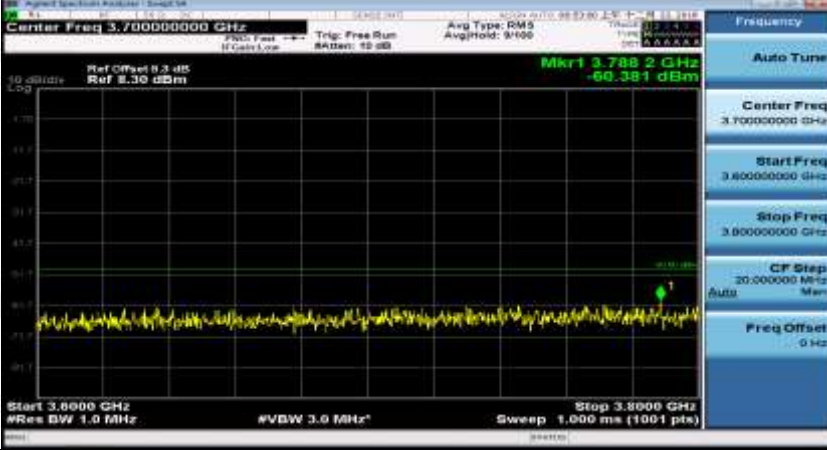
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Co-existence	
Co-existence	
Co-existence	

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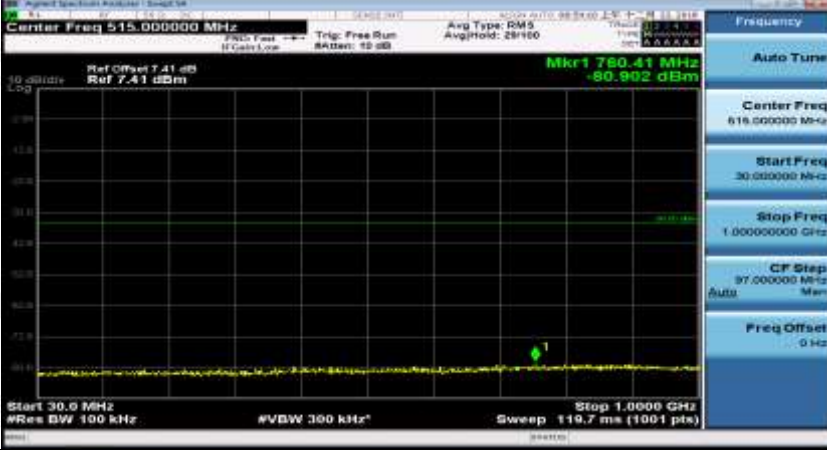
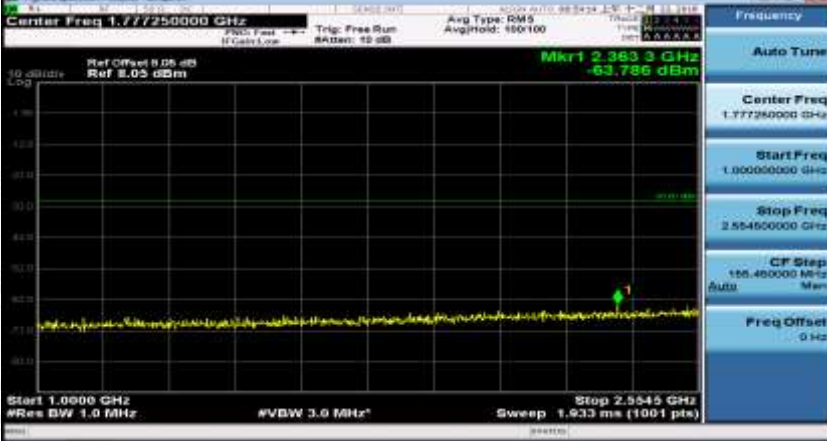
Co-existence	
Co-existence	
Co-existence	

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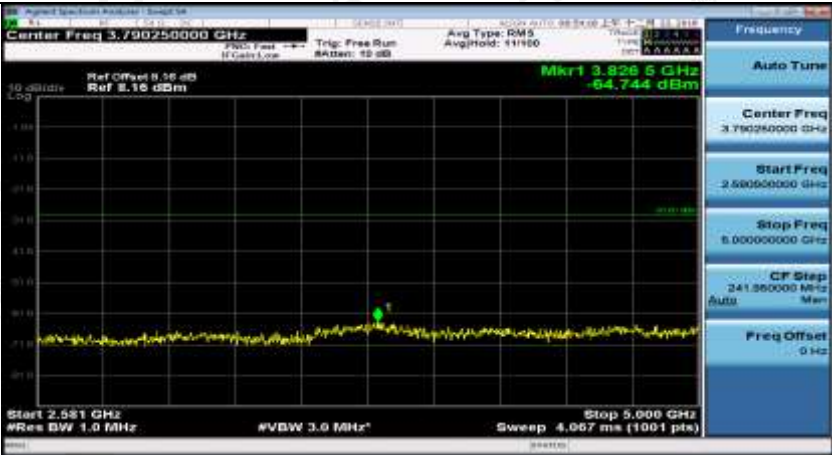


Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
General	


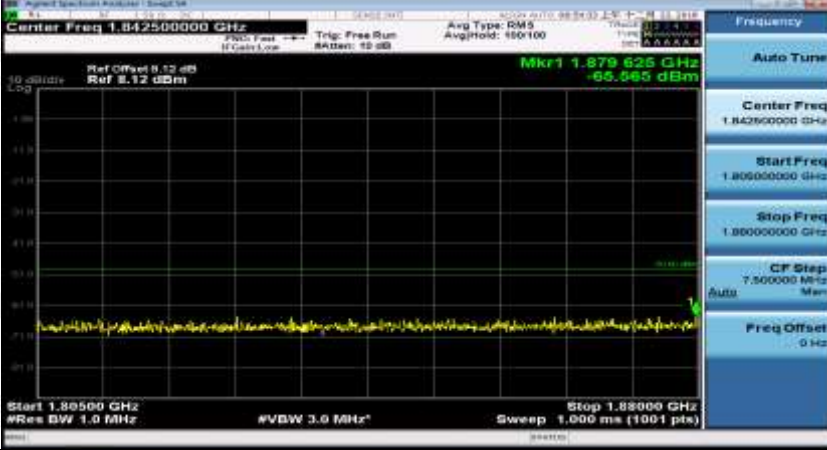
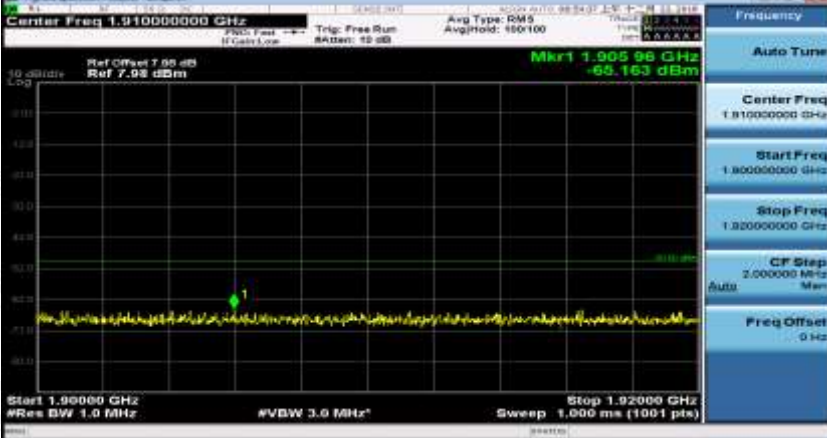
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General	
General	
General	

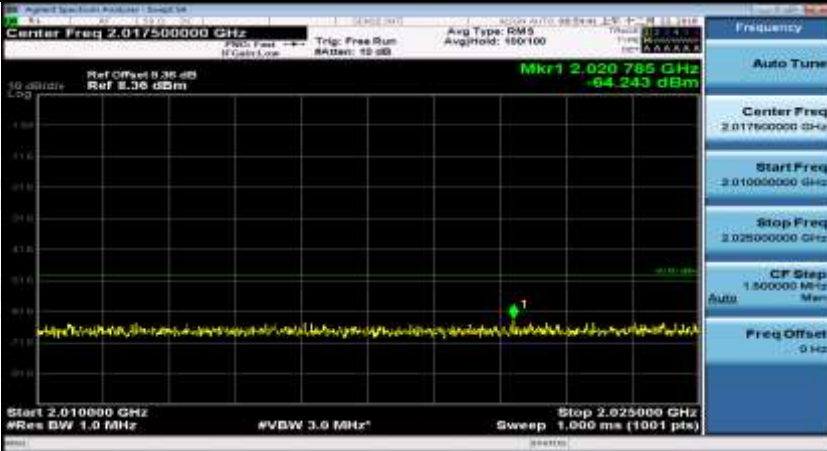
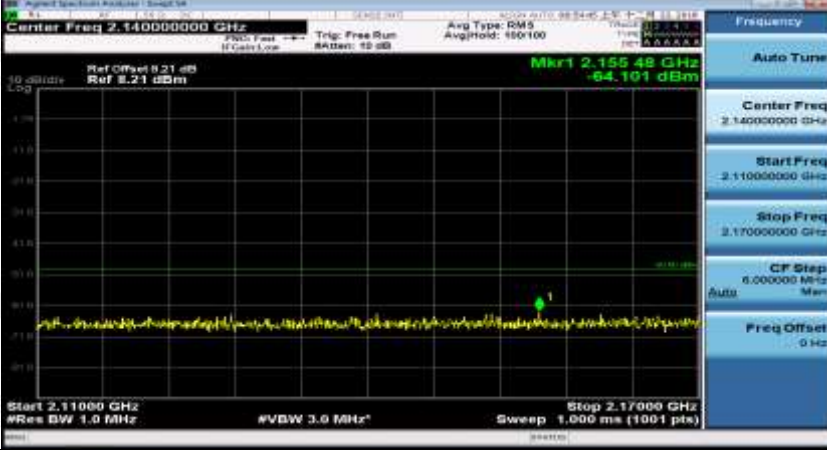

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General	
General	
Co-existence	


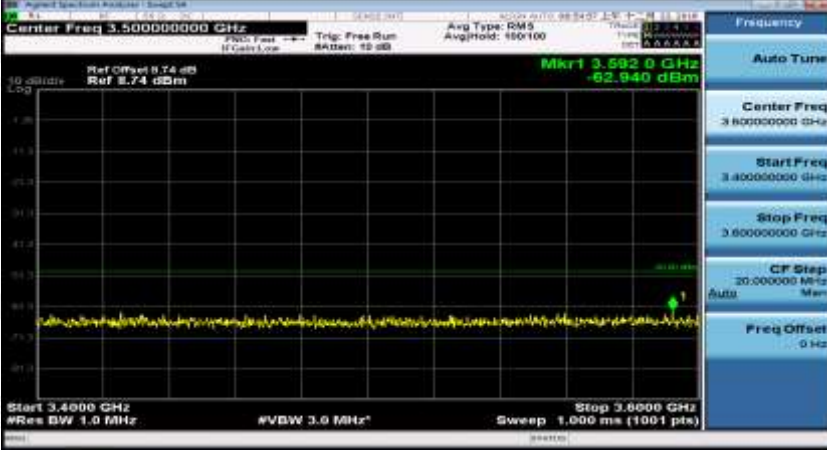
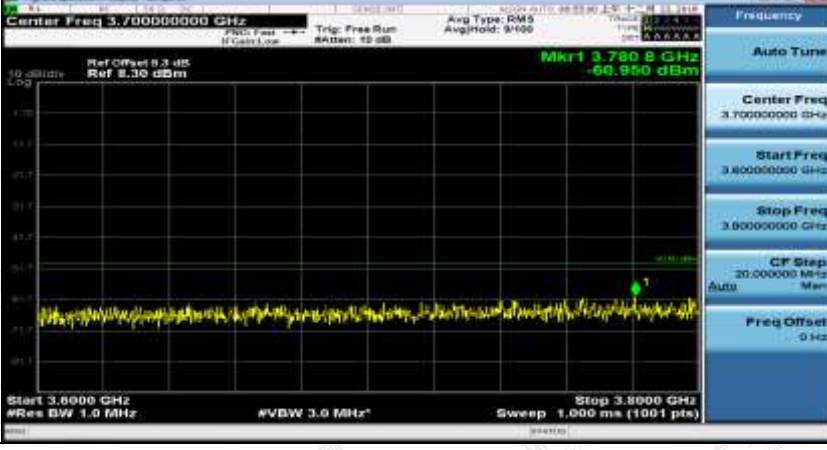
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Co-existence	
Co-existence	
Co-existence	

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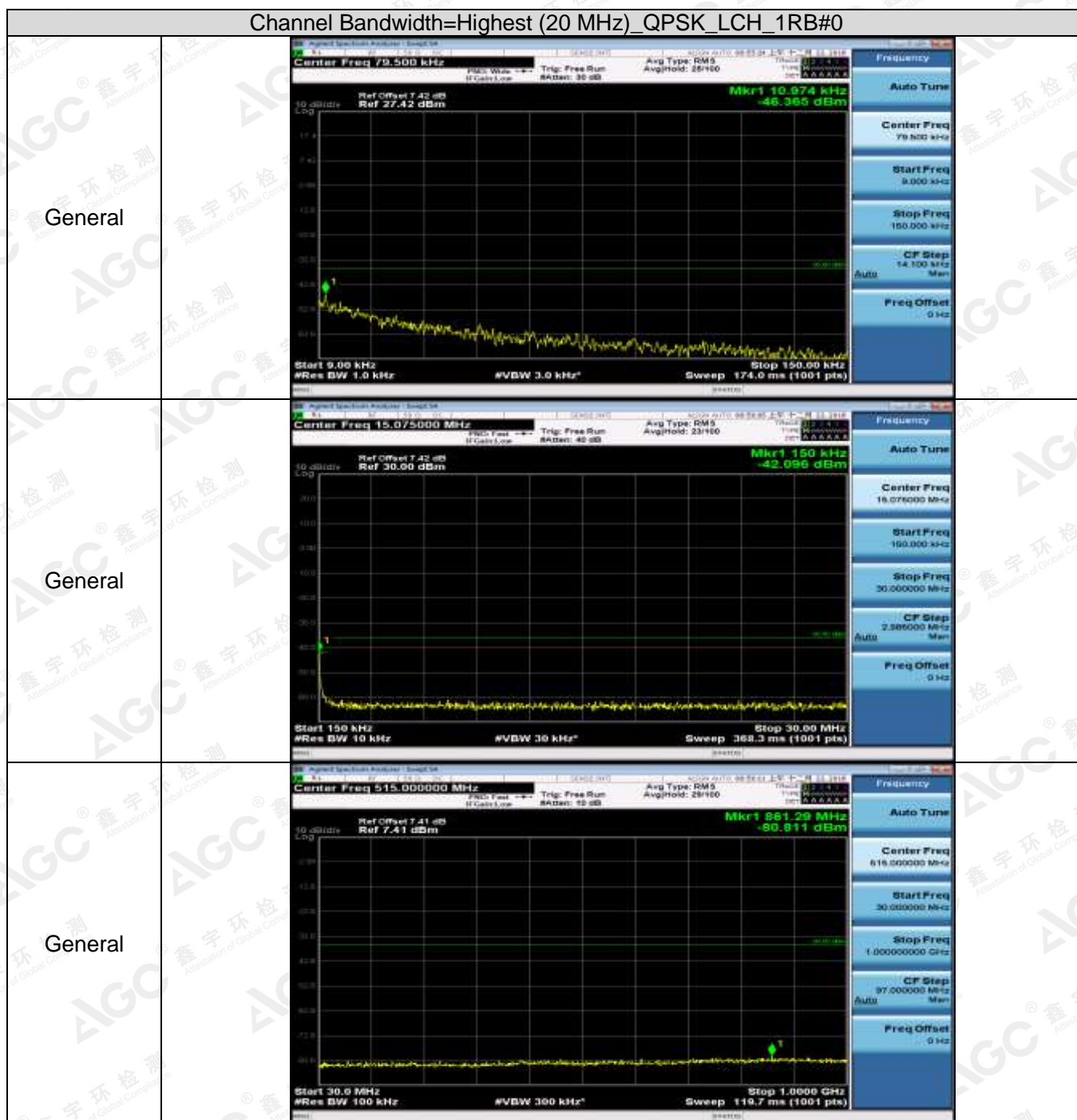
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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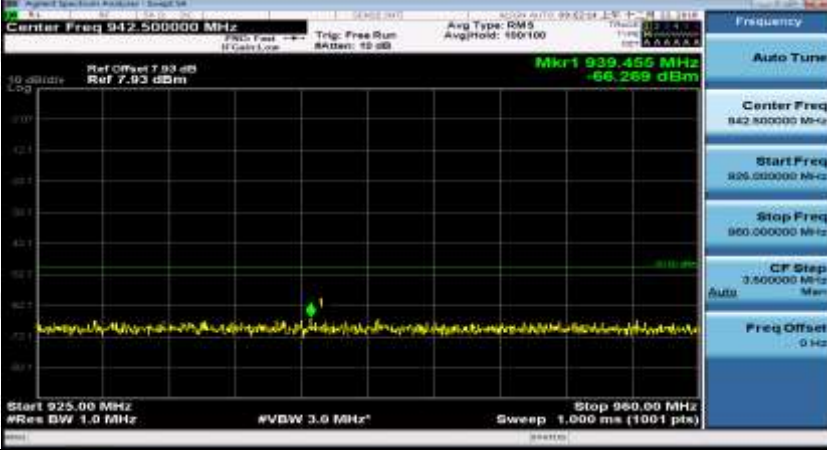
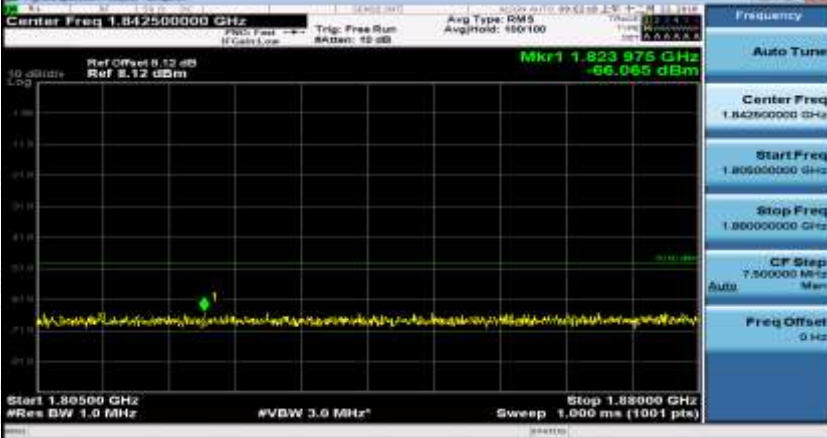
Channel Bandwidth= (20 MHz)



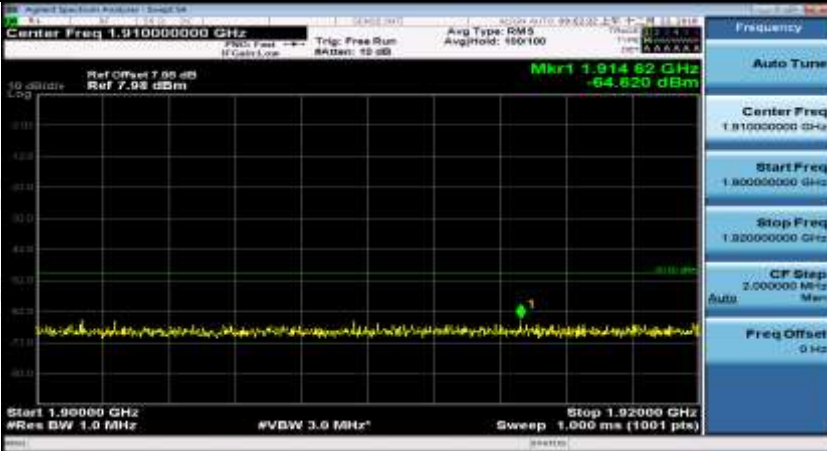
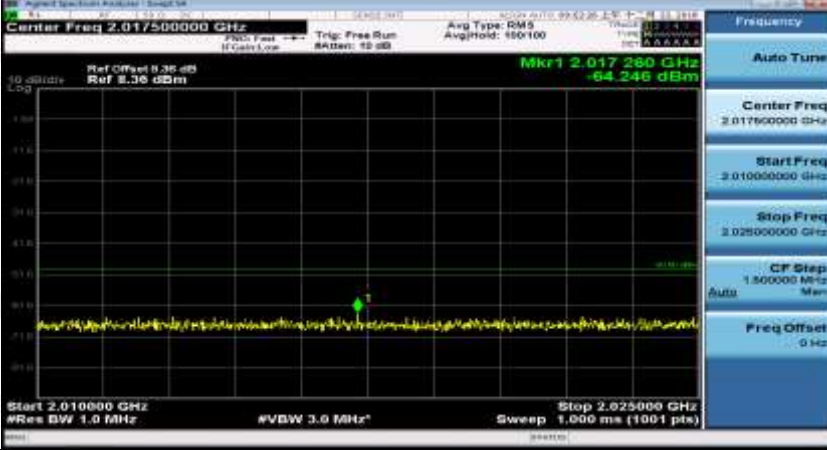
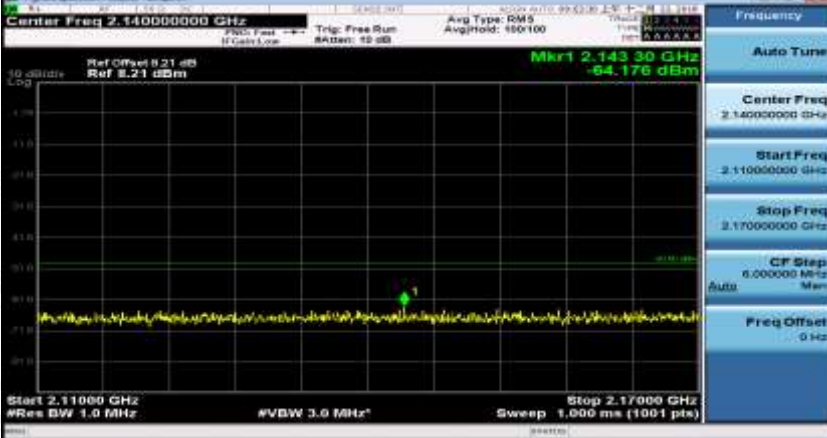
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General	
General	
General	

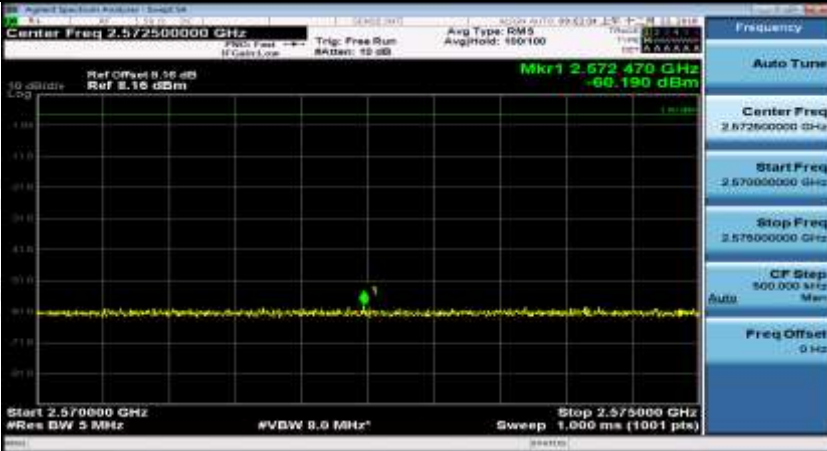
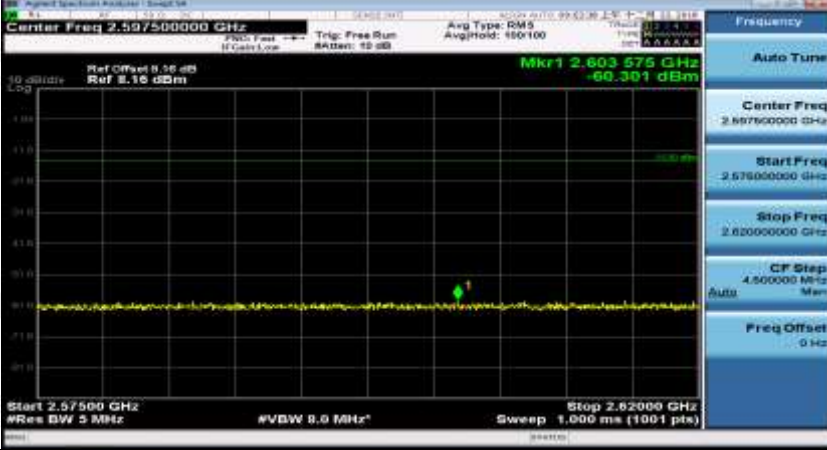
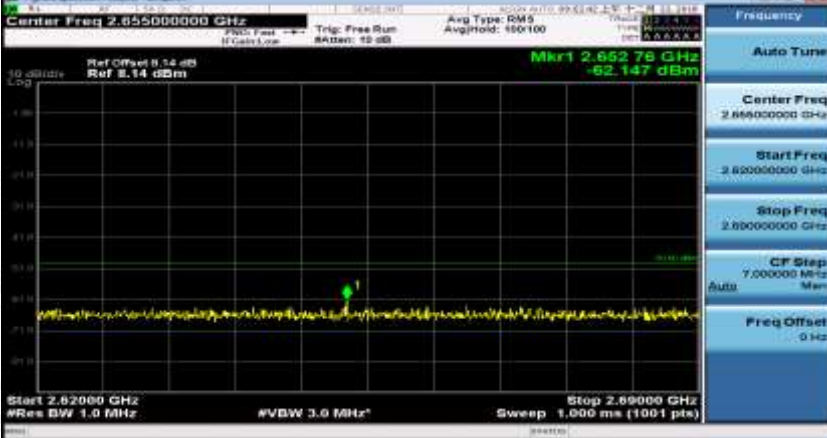
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Co-existence	
Co-existence	
Co-existence	


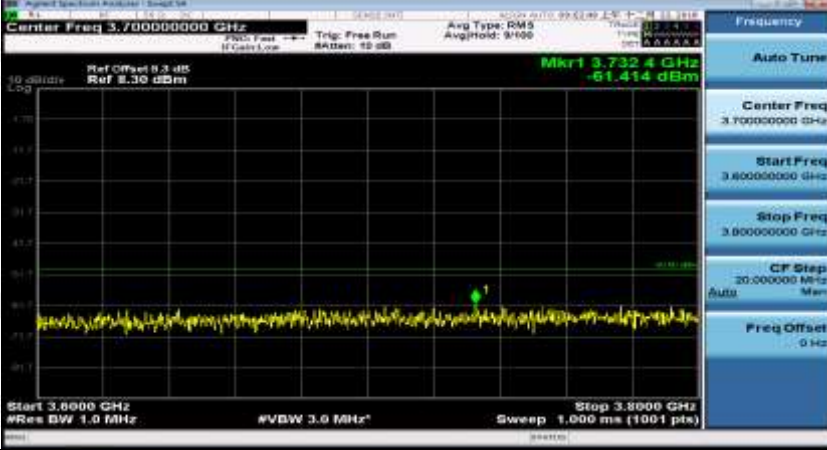
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


Co-existence	
Co-existence	
Co-existence	

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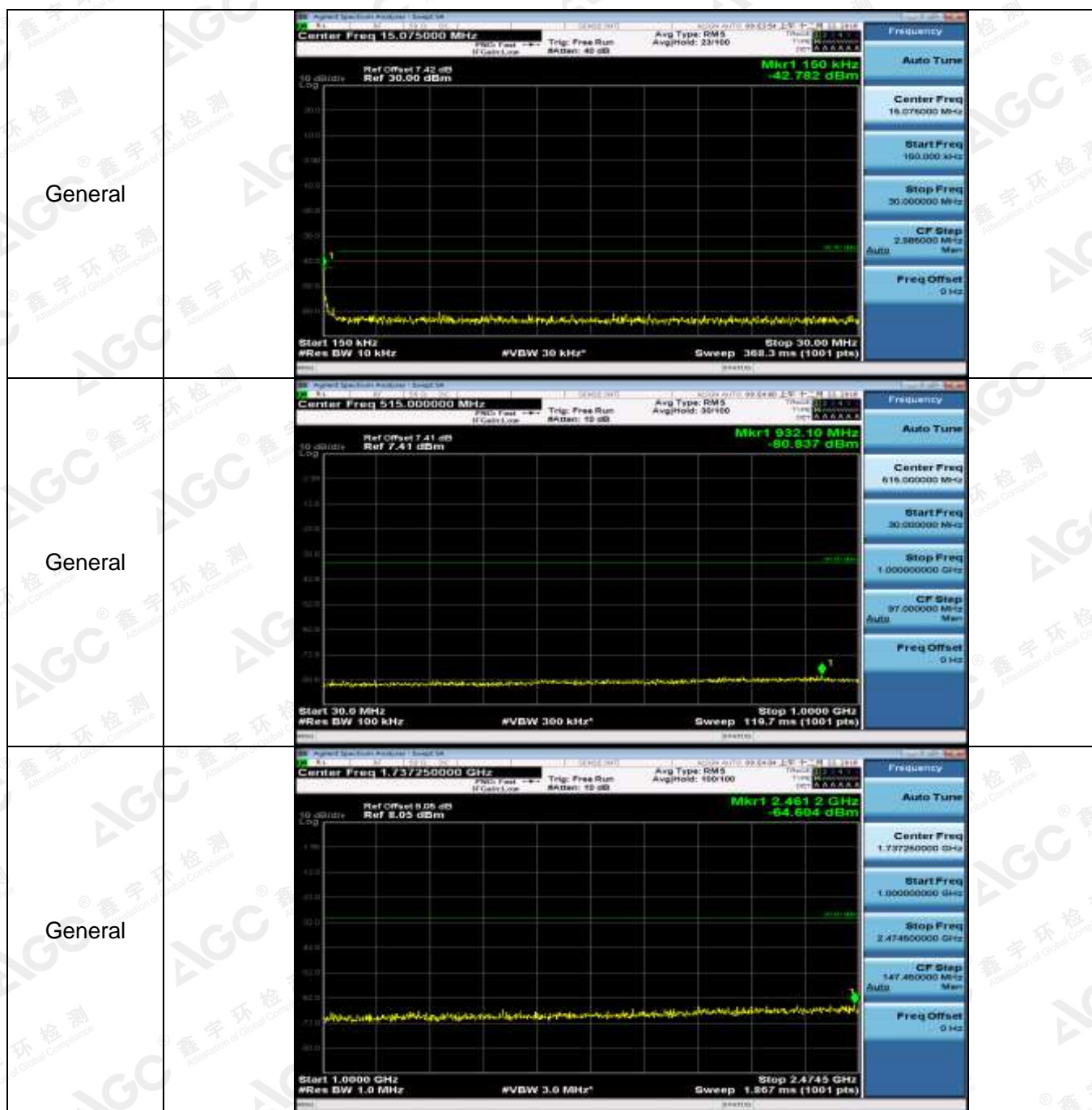
Co-existence	
Co-existence	
Co-existence	

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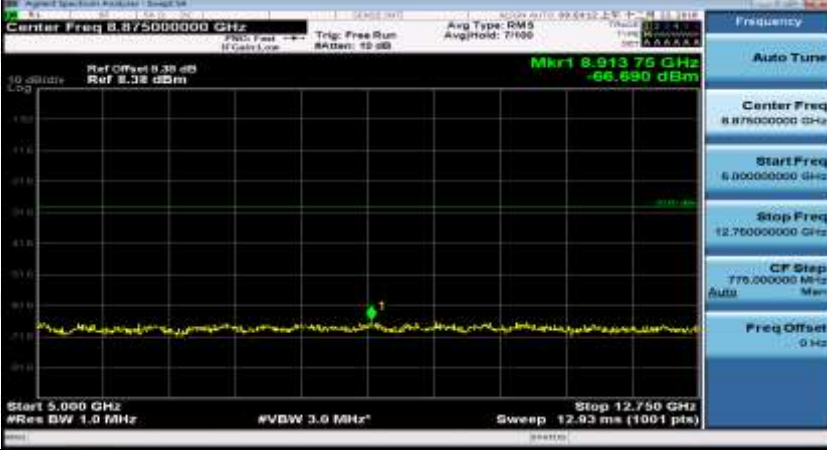
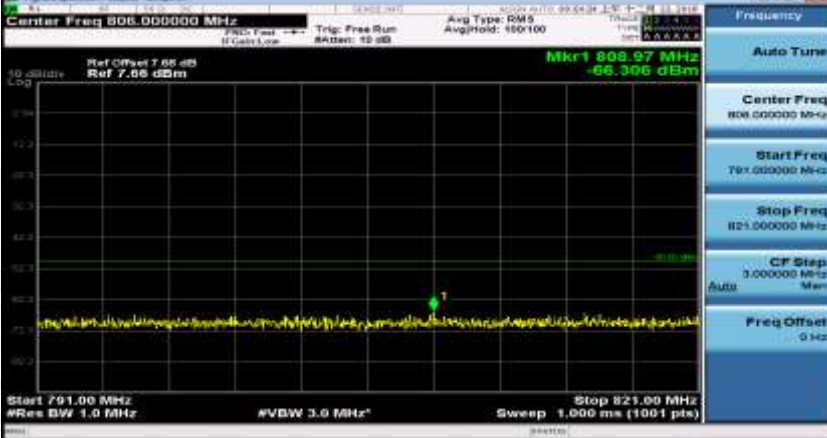
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	

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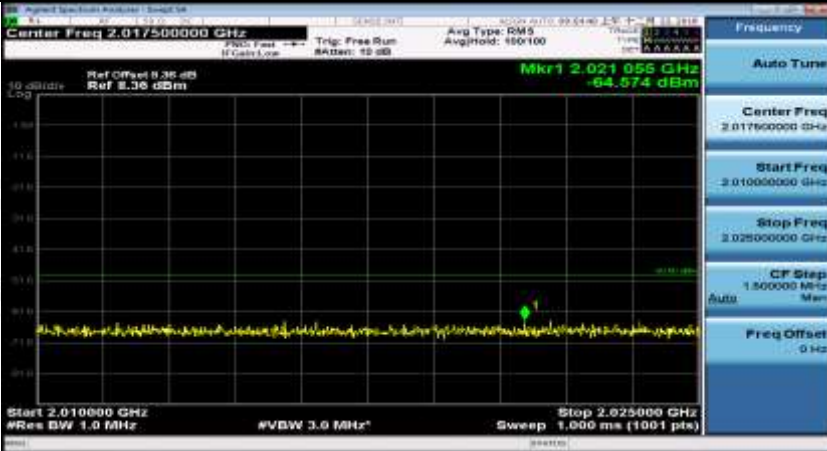
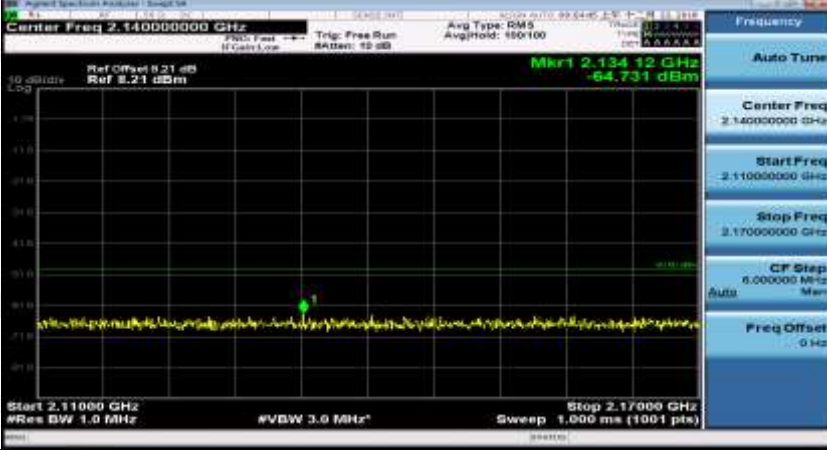

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General	
General	
Co-existence	

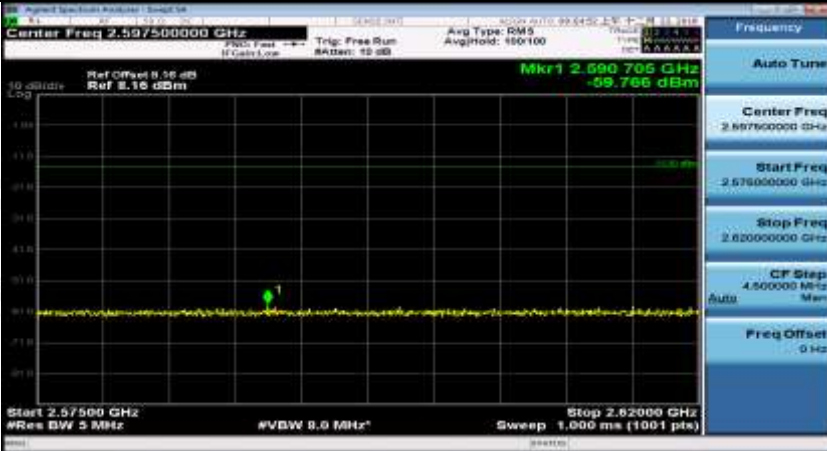
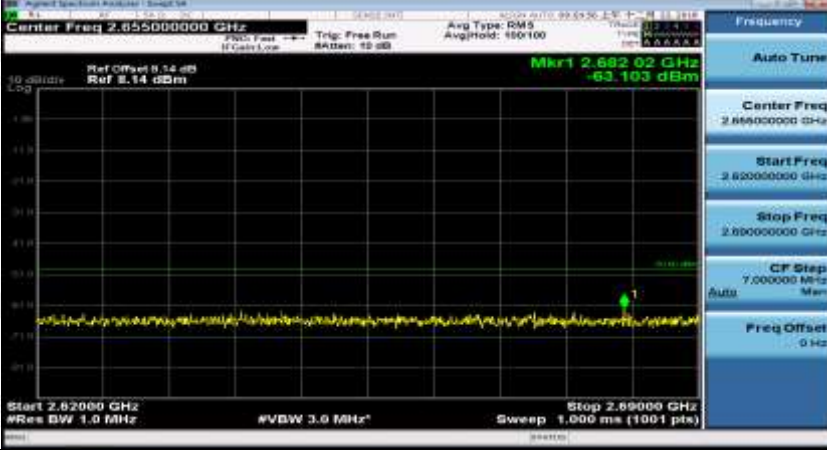
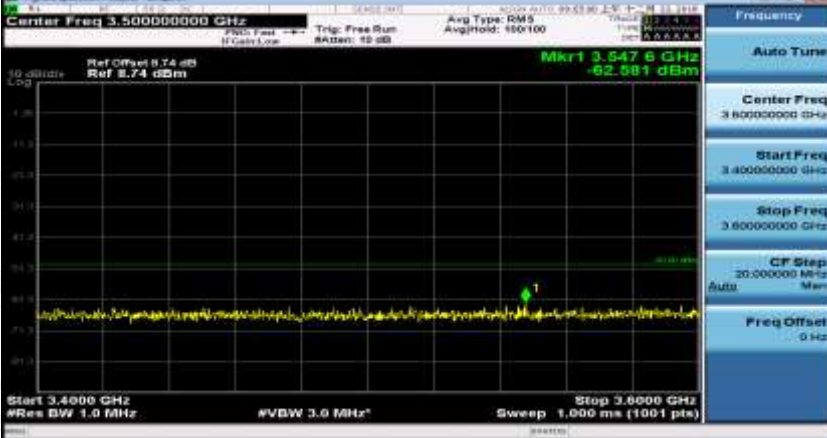
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Co-existence	
Co-existence	
Co-existence	


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Co-existence	
Co-existence	
Co-existence	

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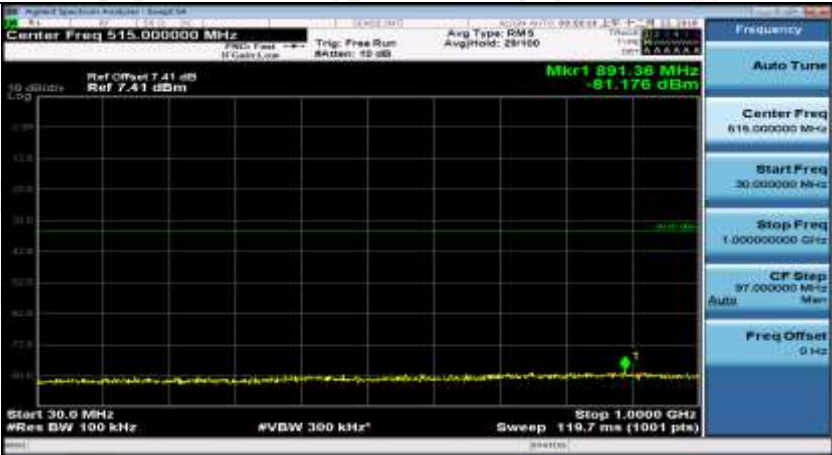
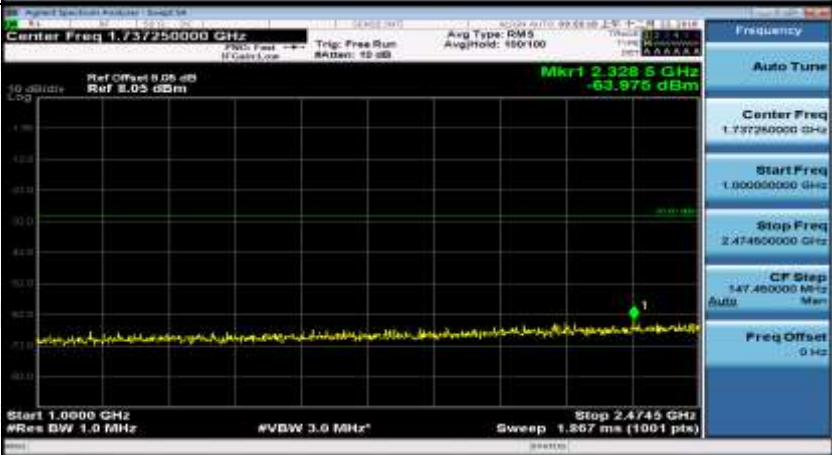
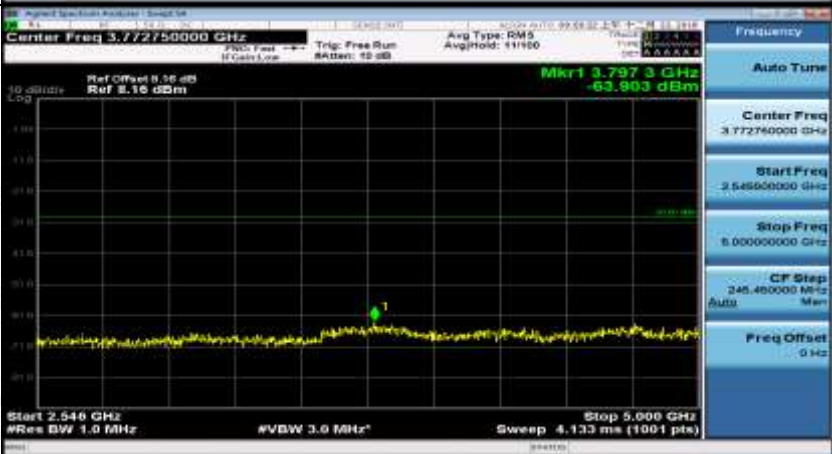
Co-existence	
Co-existence	
Co-existence	

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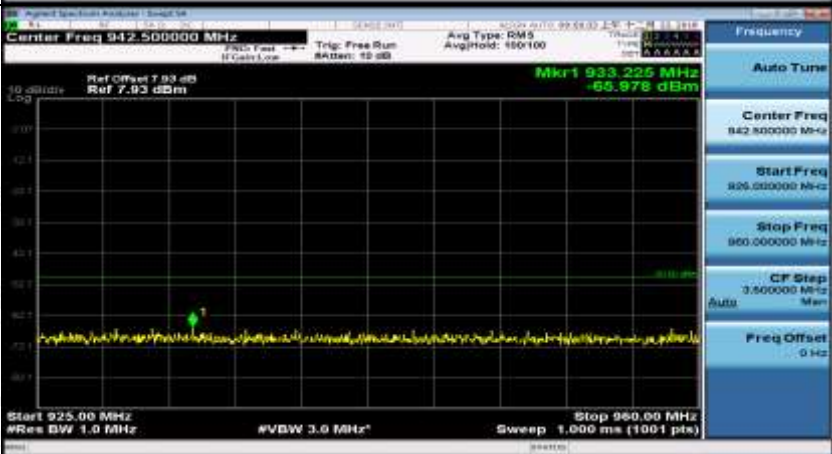
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	
General	

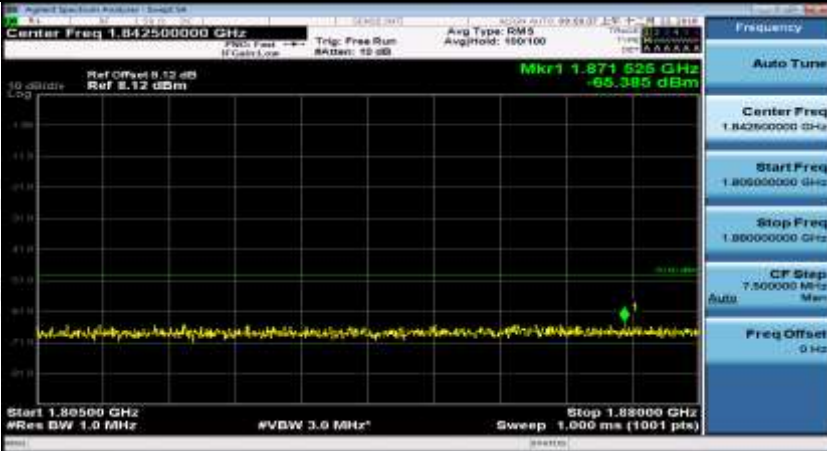
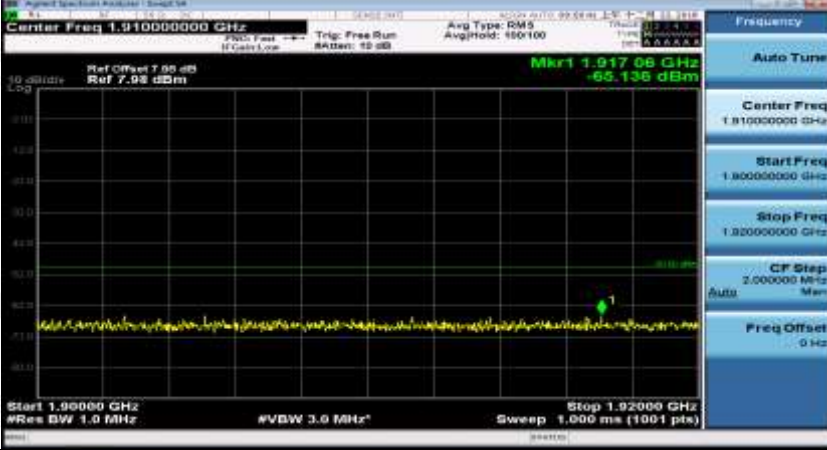
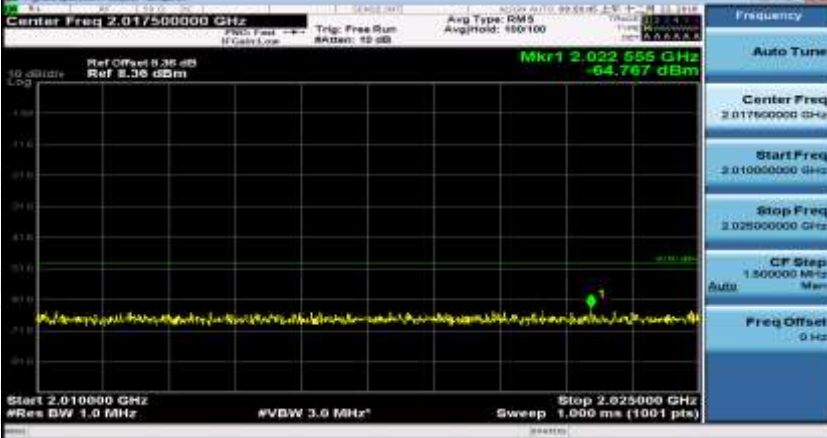
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General	
General	
General	

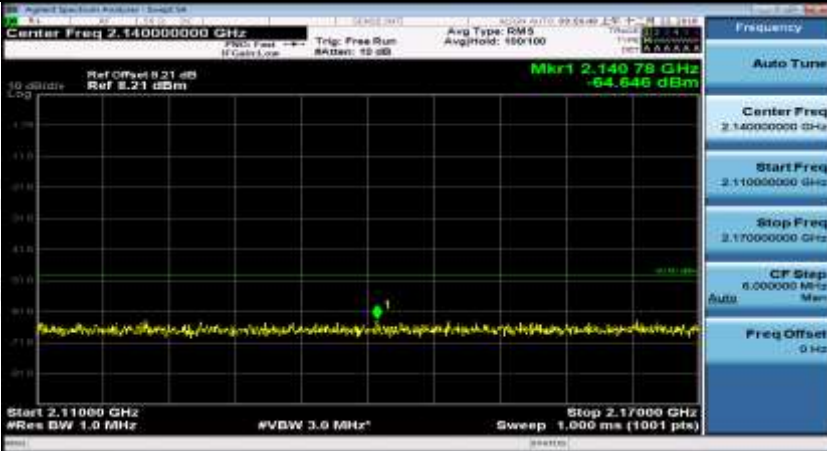
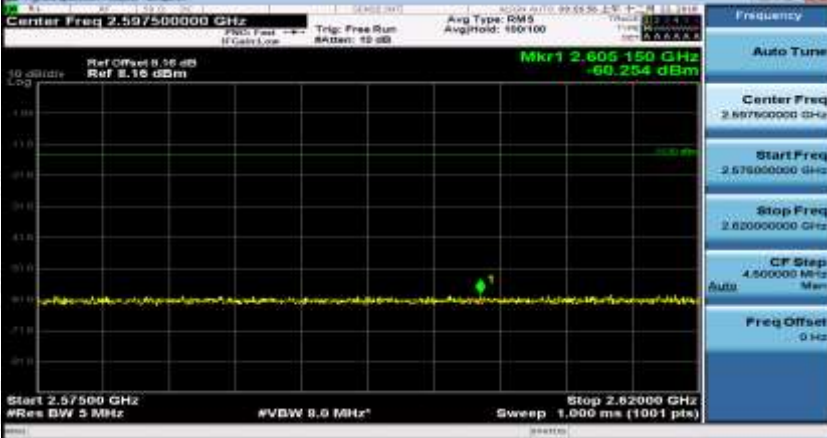
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General	
Co-existence	
Co-existence	

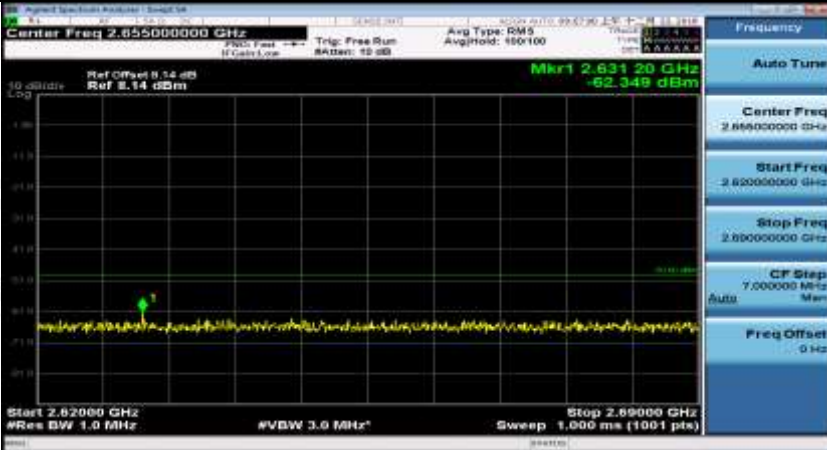
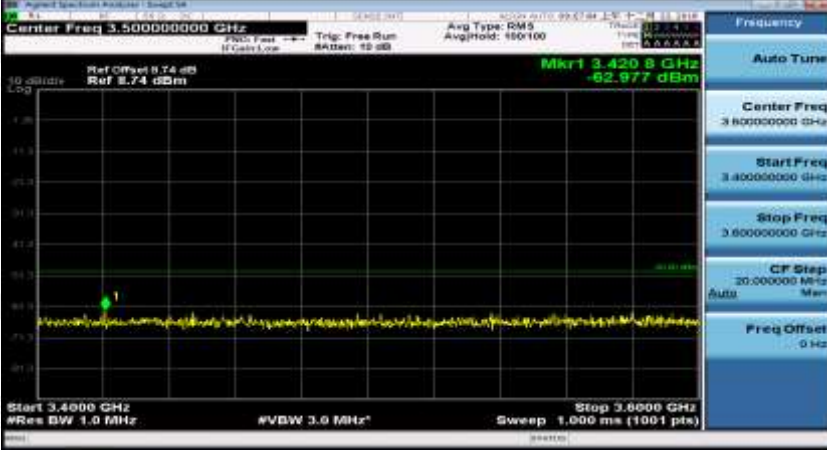
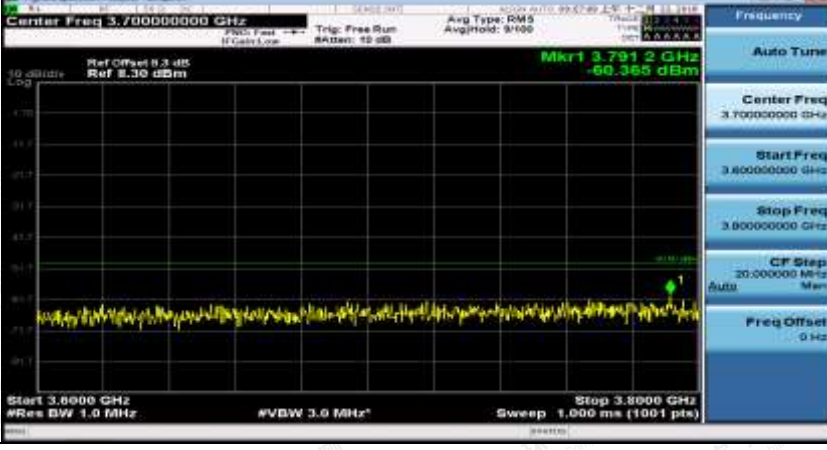
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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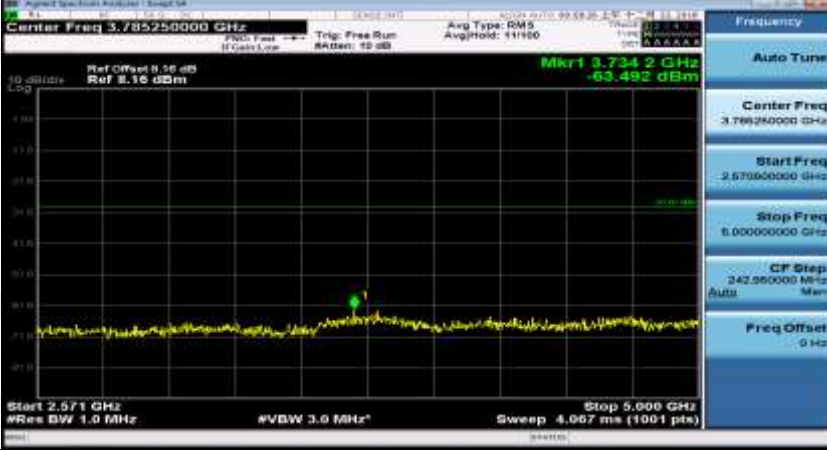
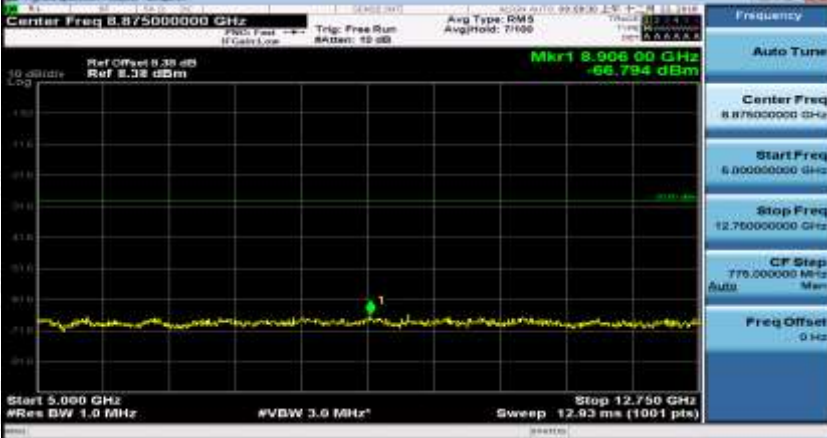
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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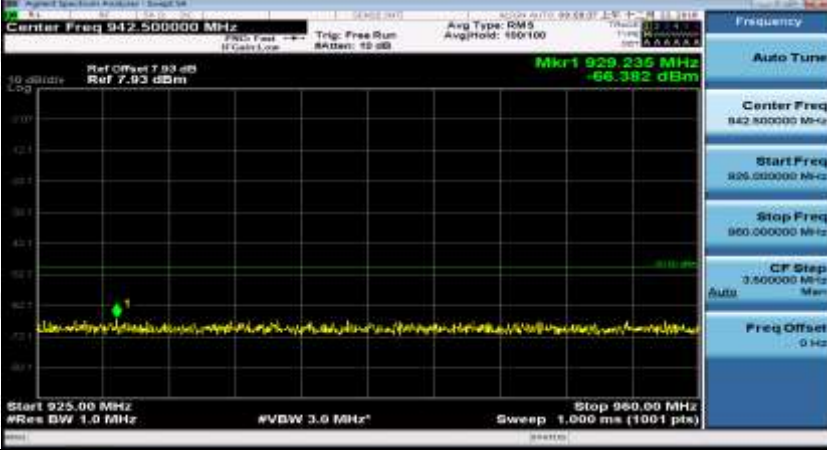
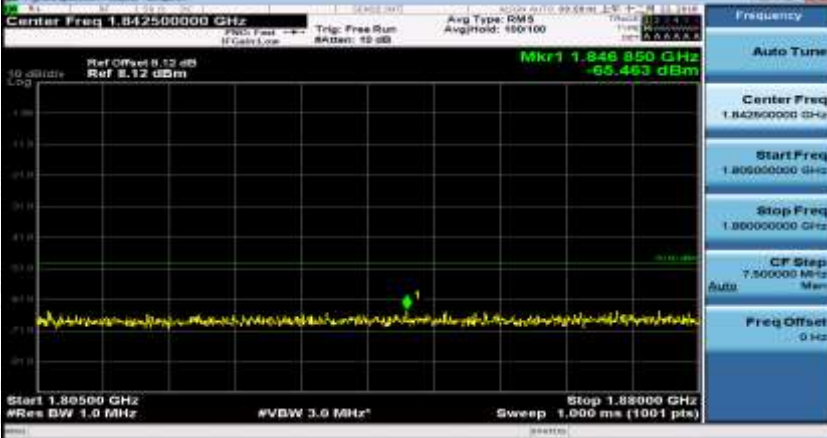
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 9.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 22.00500000 GHz</p> <p>Start Freq 10.000000 MHz</p> <p>Stop Freq 44.00000000 GHz</p> <p>CF Step 4.399000000 GHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

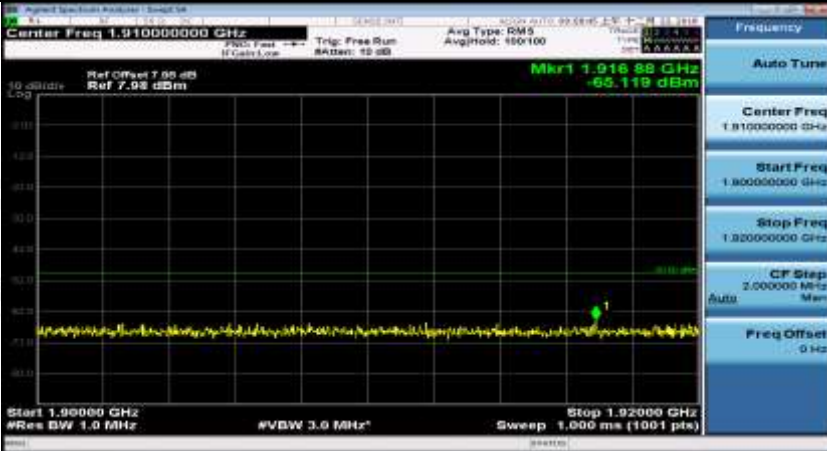
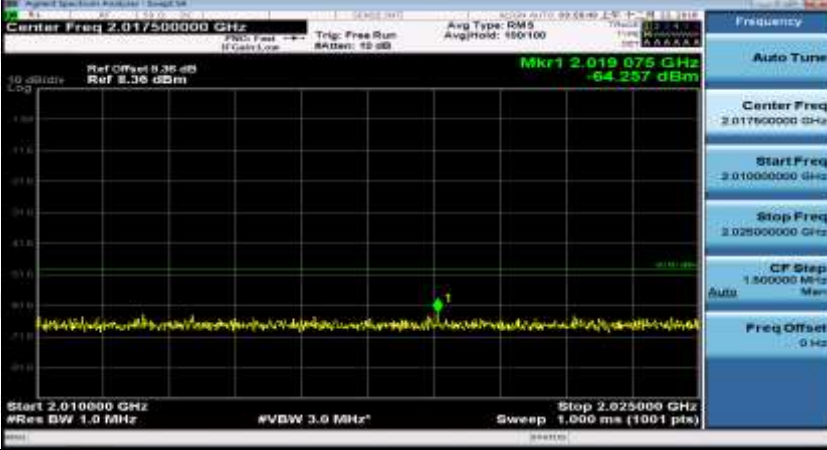
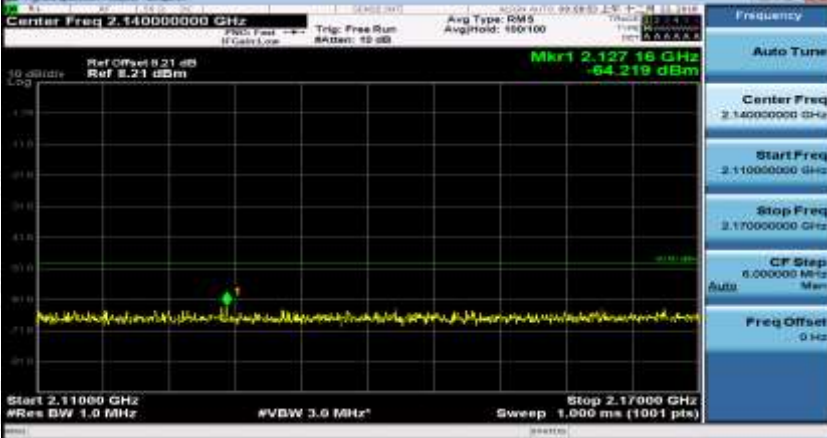
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General	
General	
General	

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Co-existence	
Co-existence	
Co-existence	

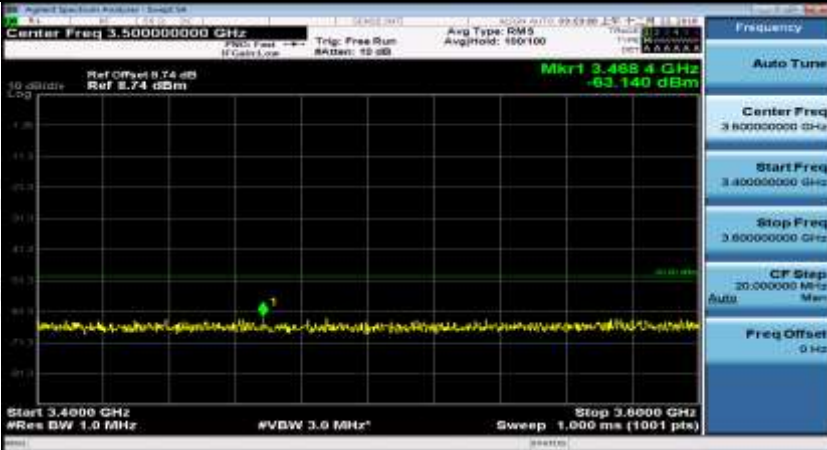
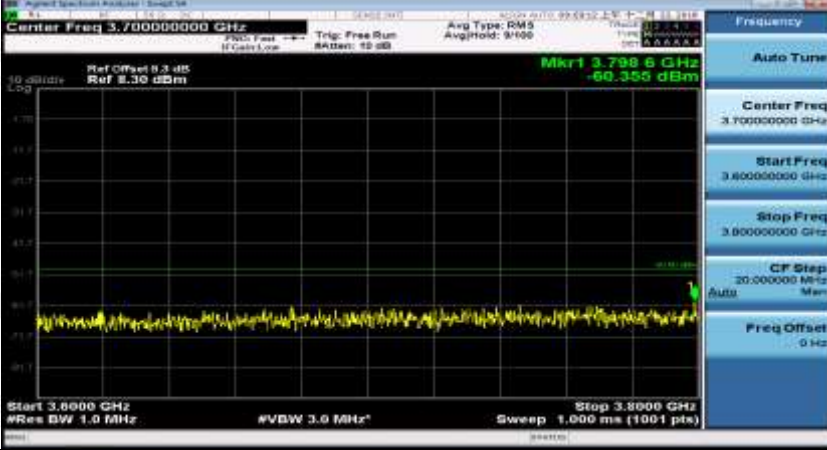
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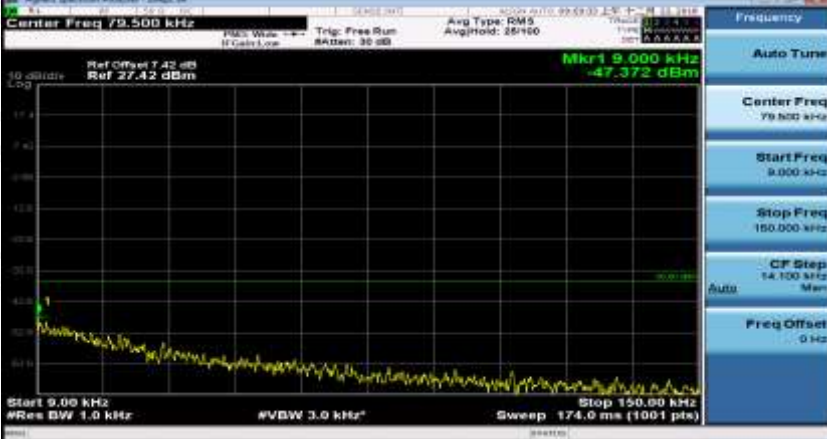
Co-existence	
Co-existence	
Co-existence	

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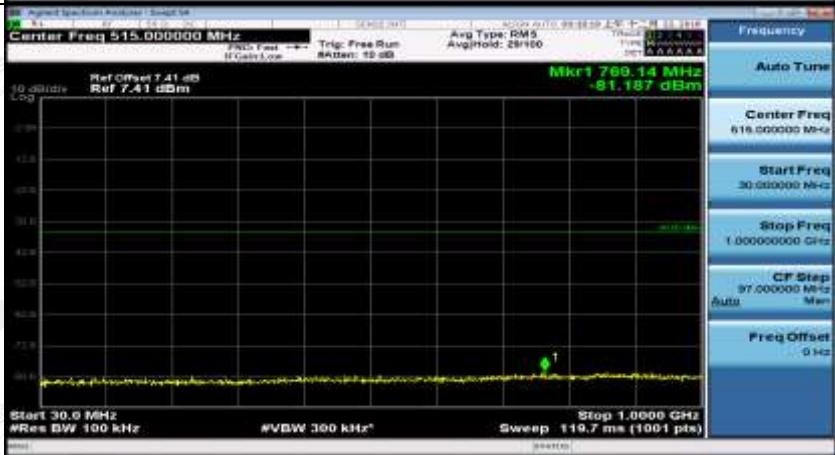

Co-existence	
Co-existence	
Co-existence	

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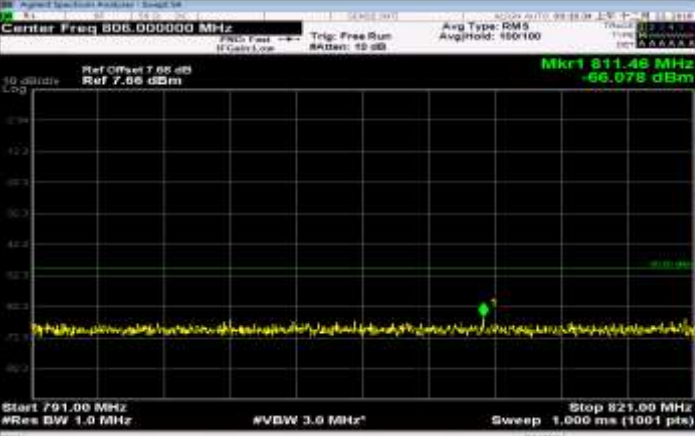
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	


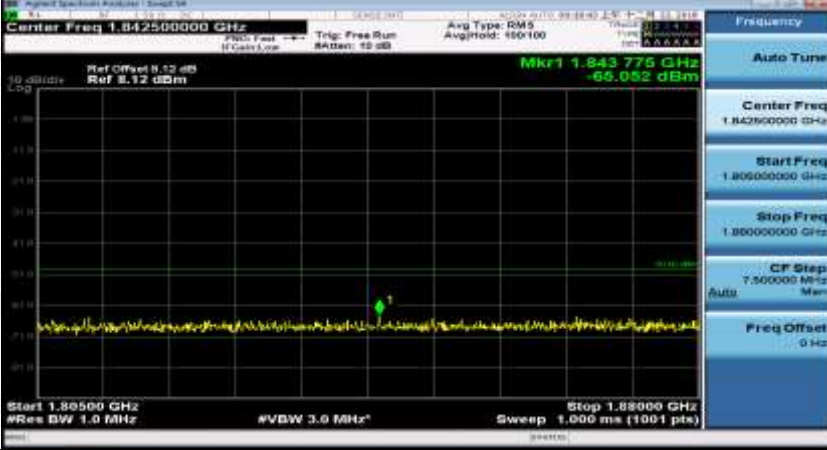
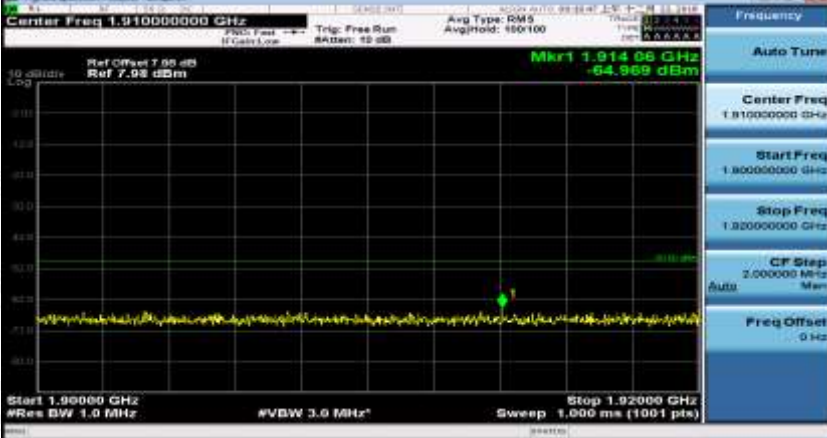
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General			
General			
General			

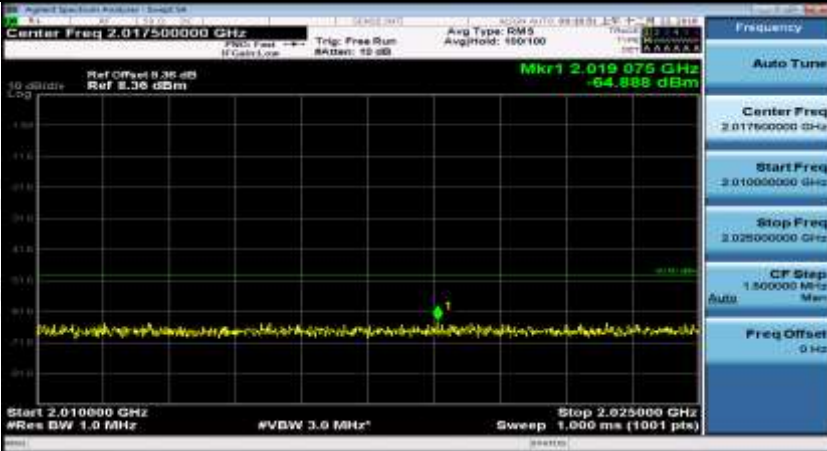
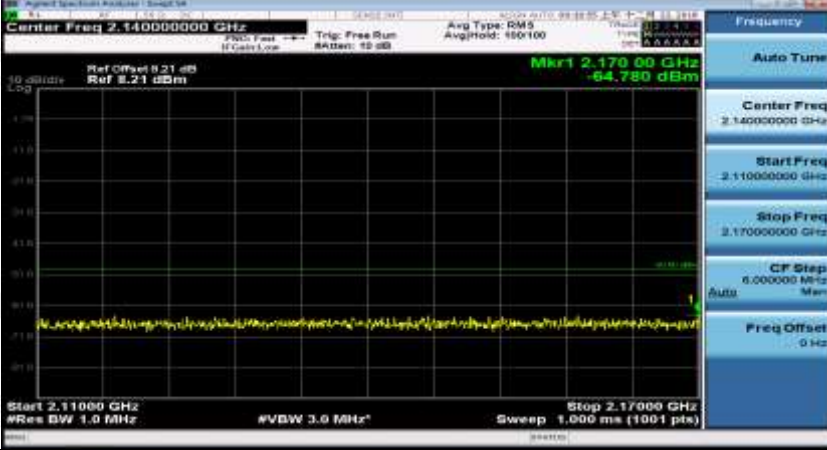

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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.785250000 GHz</p> <p>Start Freq 2.570500000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 242.500000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 781.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

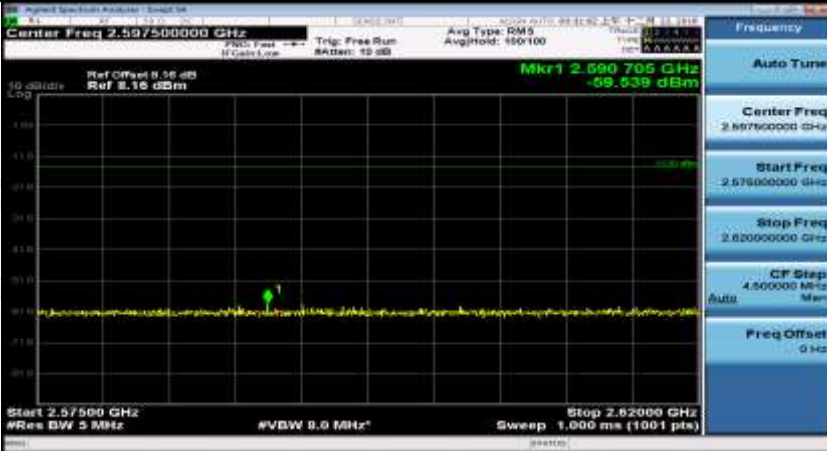
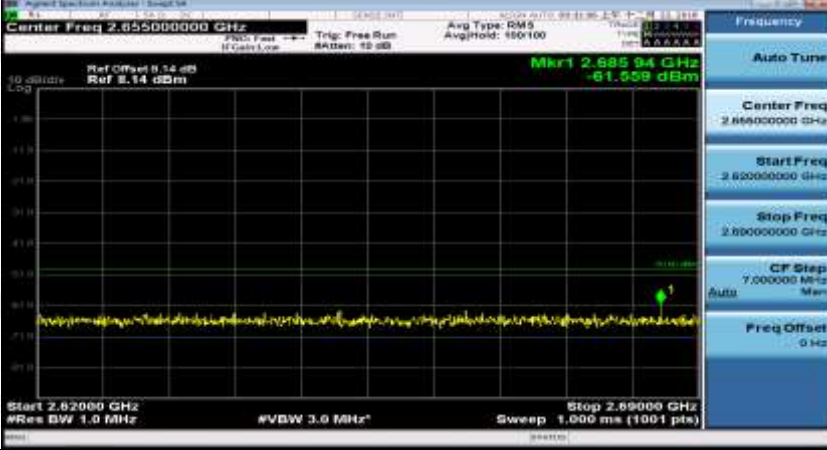
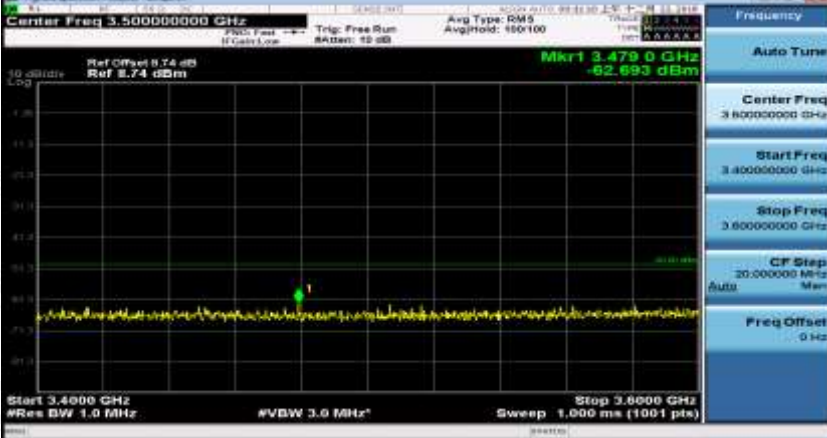
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Co-existence	
Co-existence	
Co-existence	

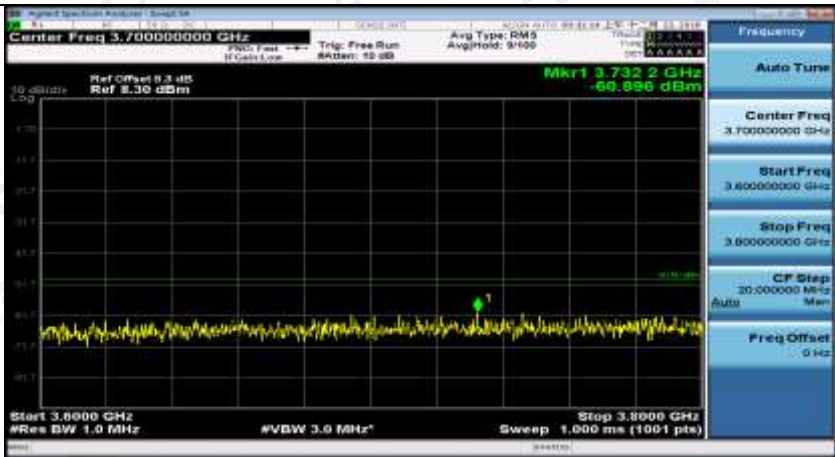
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Co-existence	
Co-existence	
Co-existence	

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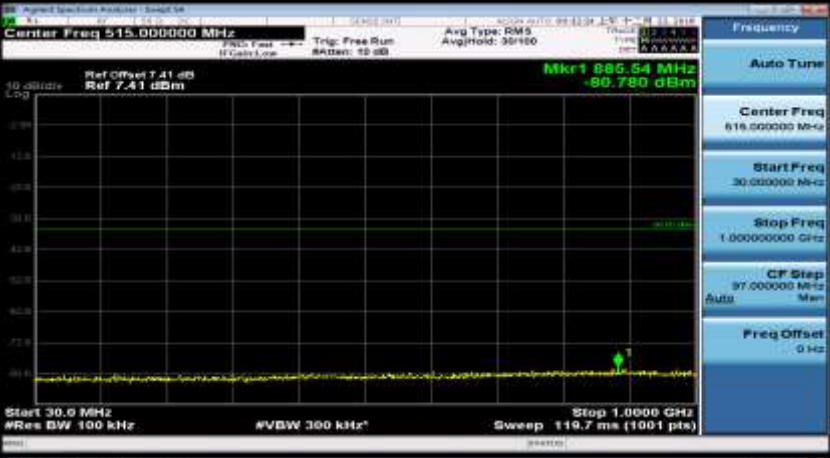
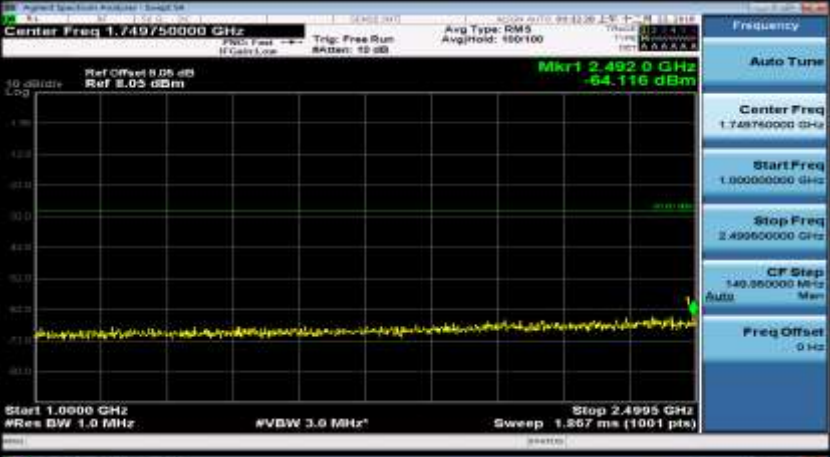
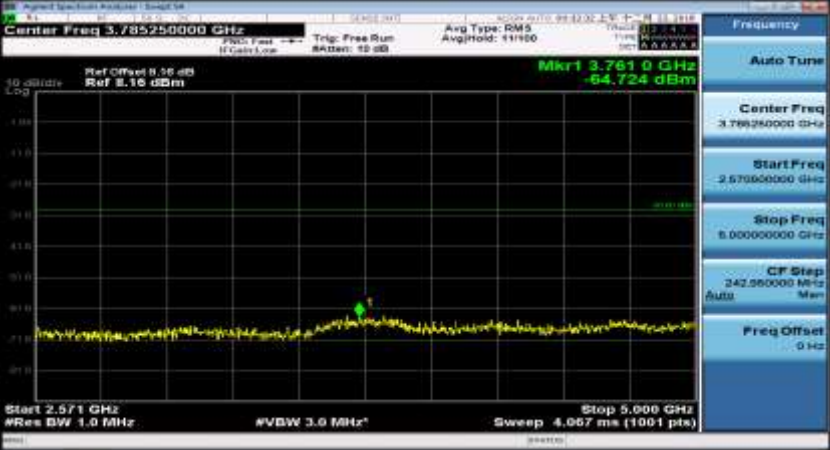
Co-existence	
Co-existence	
Co-existence	

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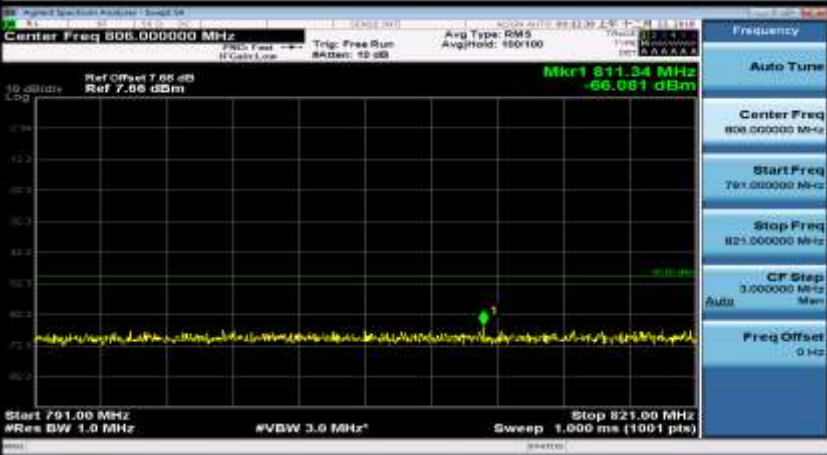
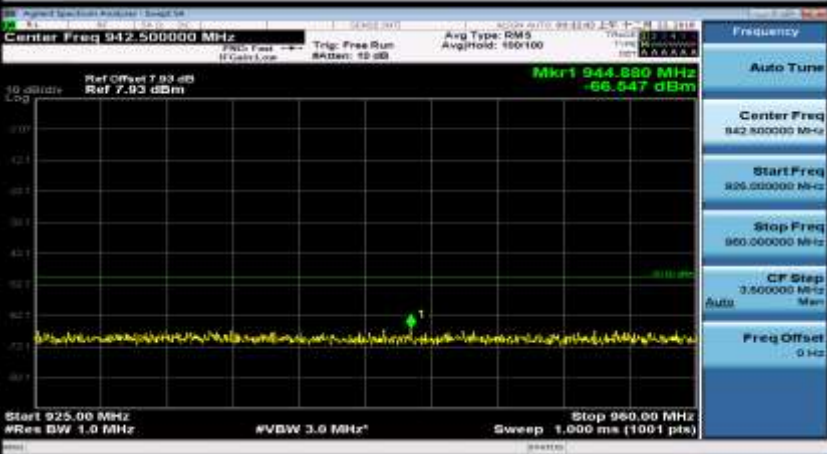
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullRB#0	
General	
General	

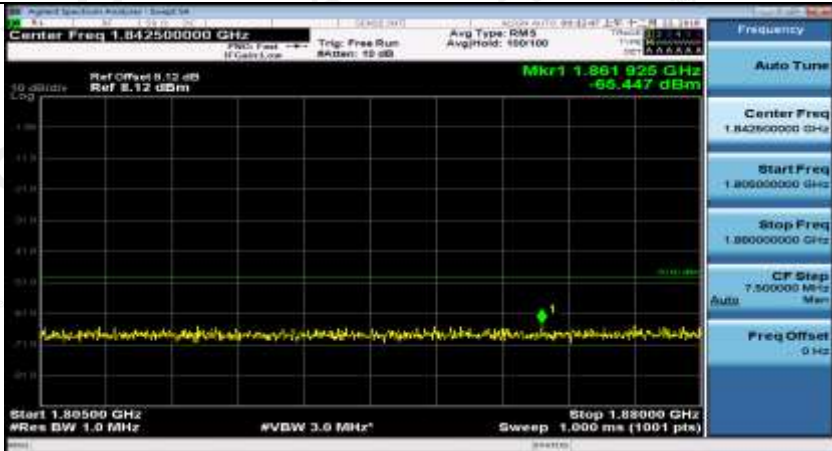
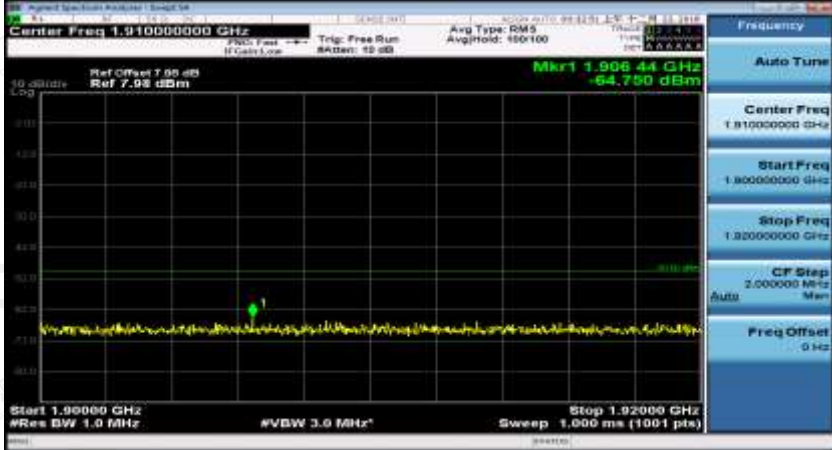

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General	
General	
General	

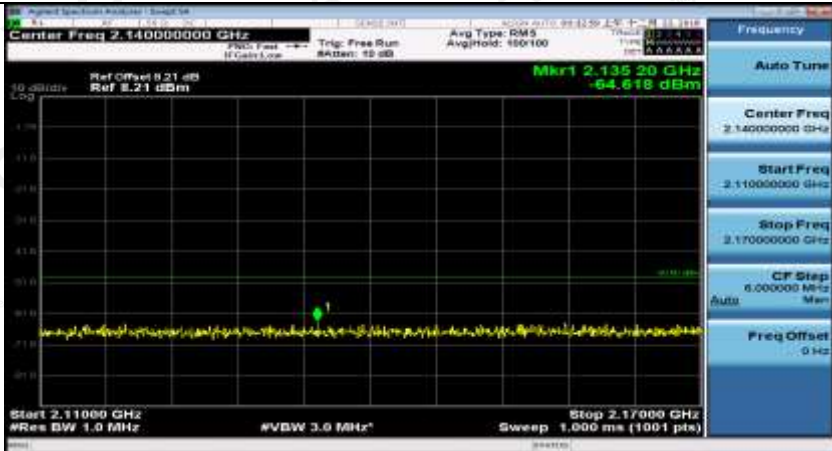

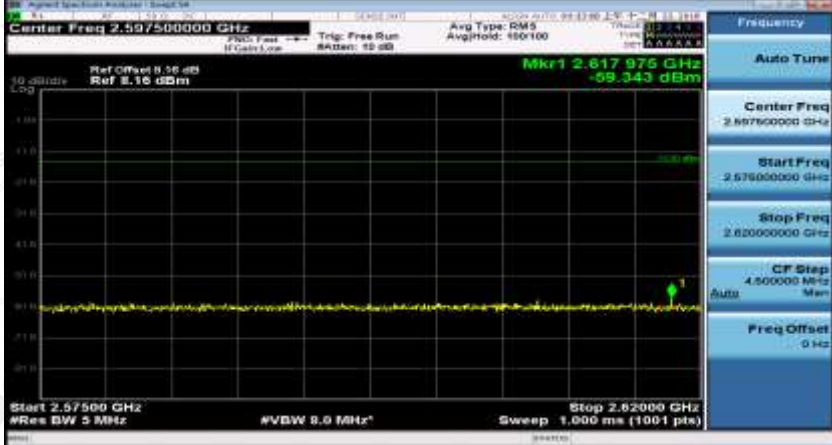
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General		
Co-existence		
Co-existence		

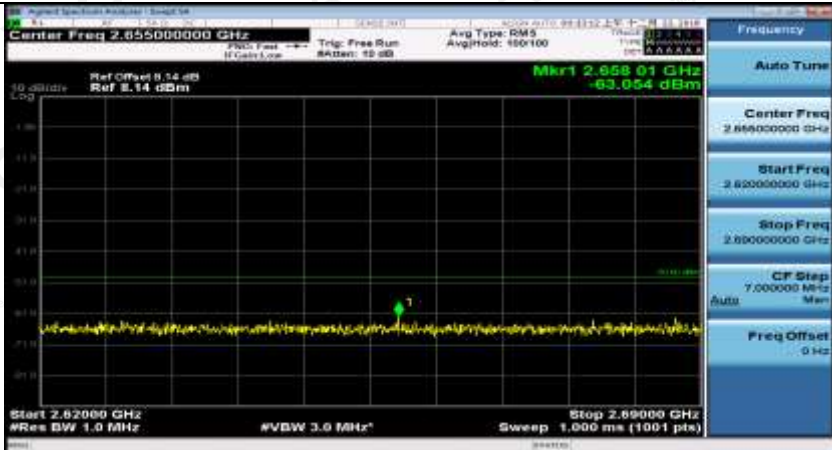
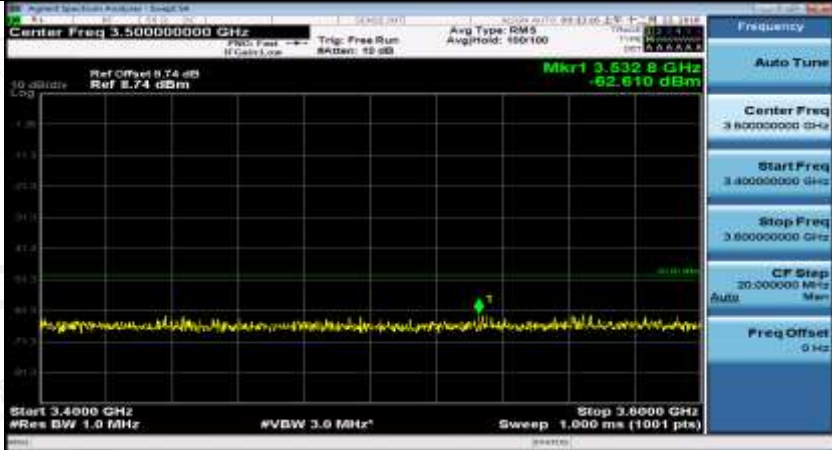
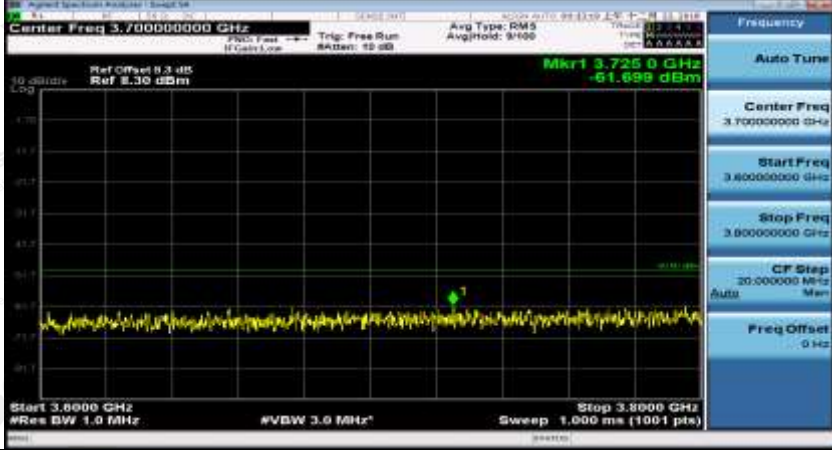
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Co-existence	
Co-existence	
Co-existence	

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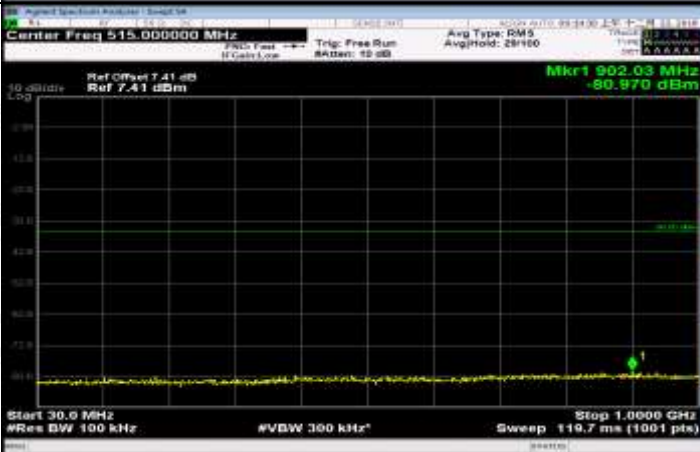
Co-existence	
Co-existence	
Co-existence	

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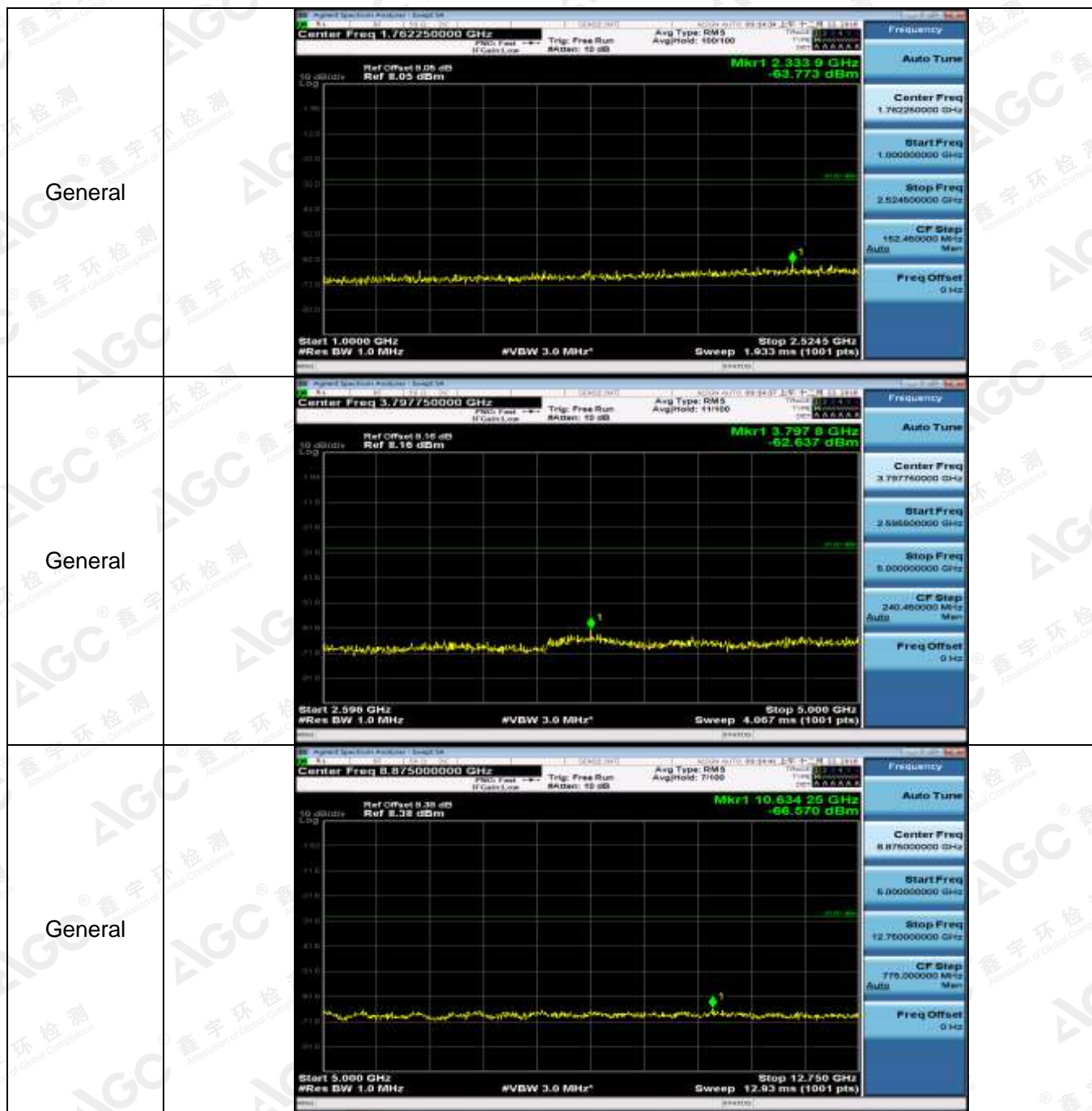
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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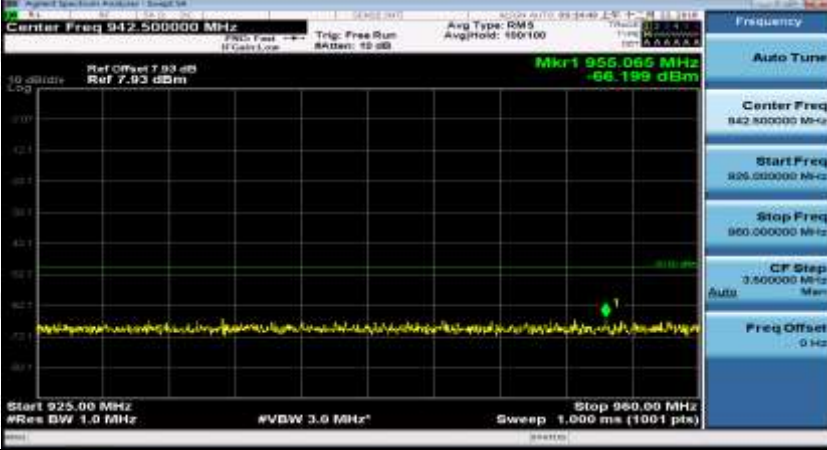
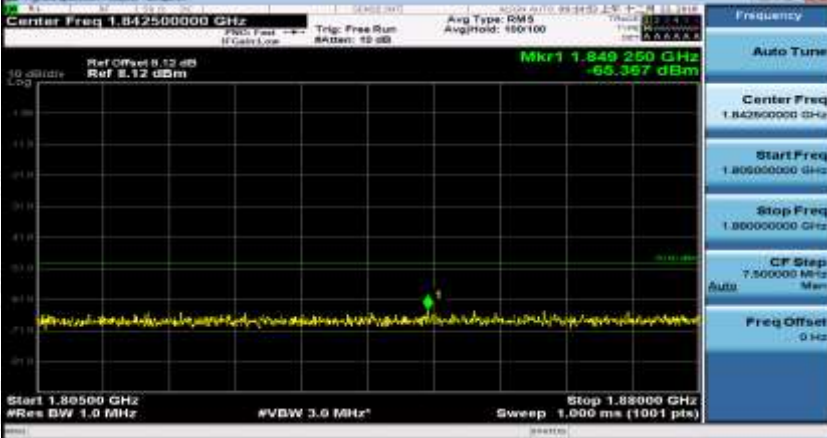
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

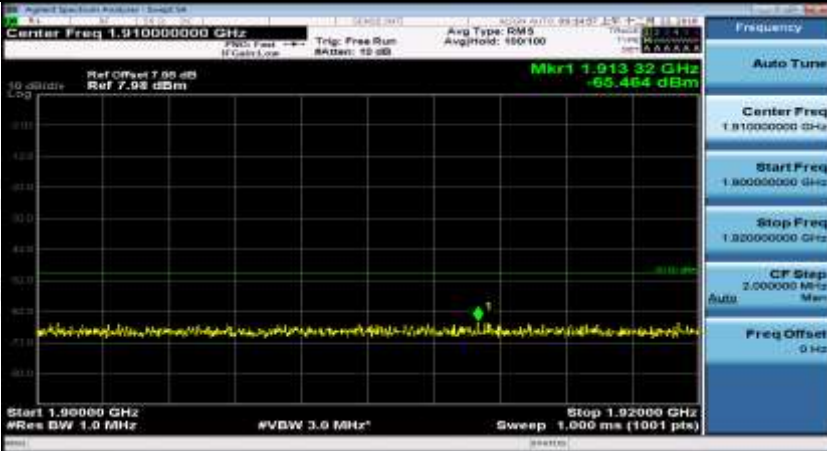
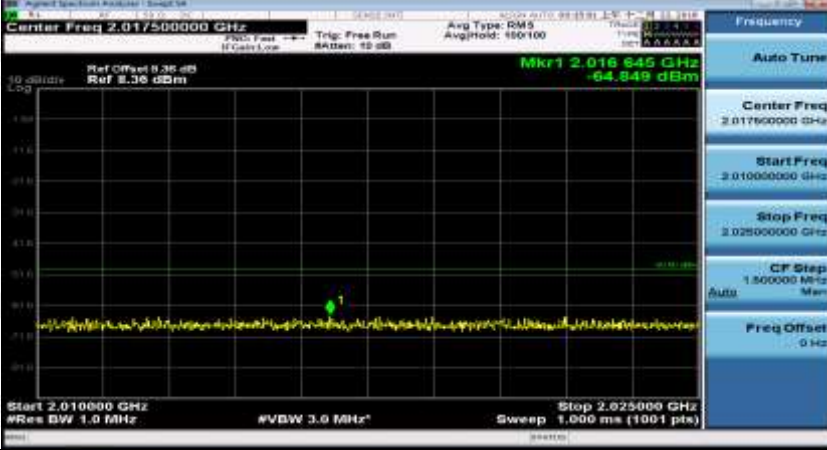
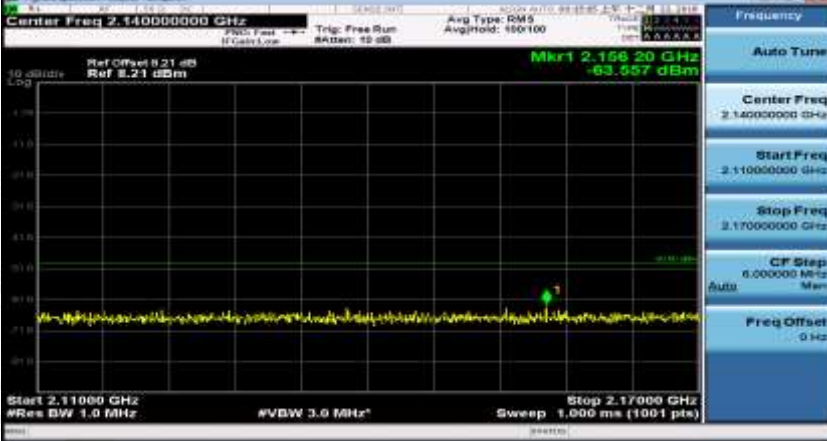
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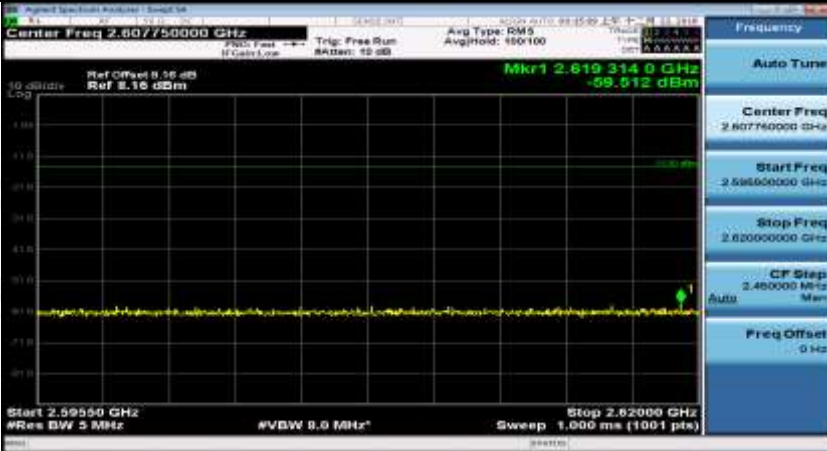

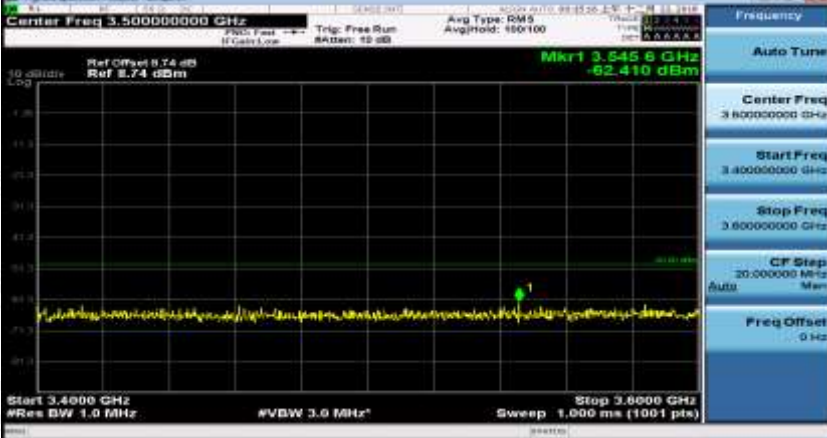
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Co-existence	
Co-existence	
Co-existence	

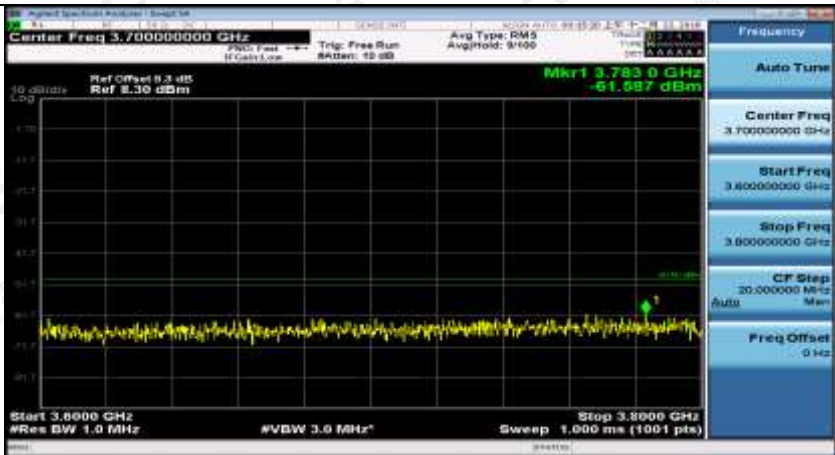
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Co-existence	
Co-existence	
Co-existence	

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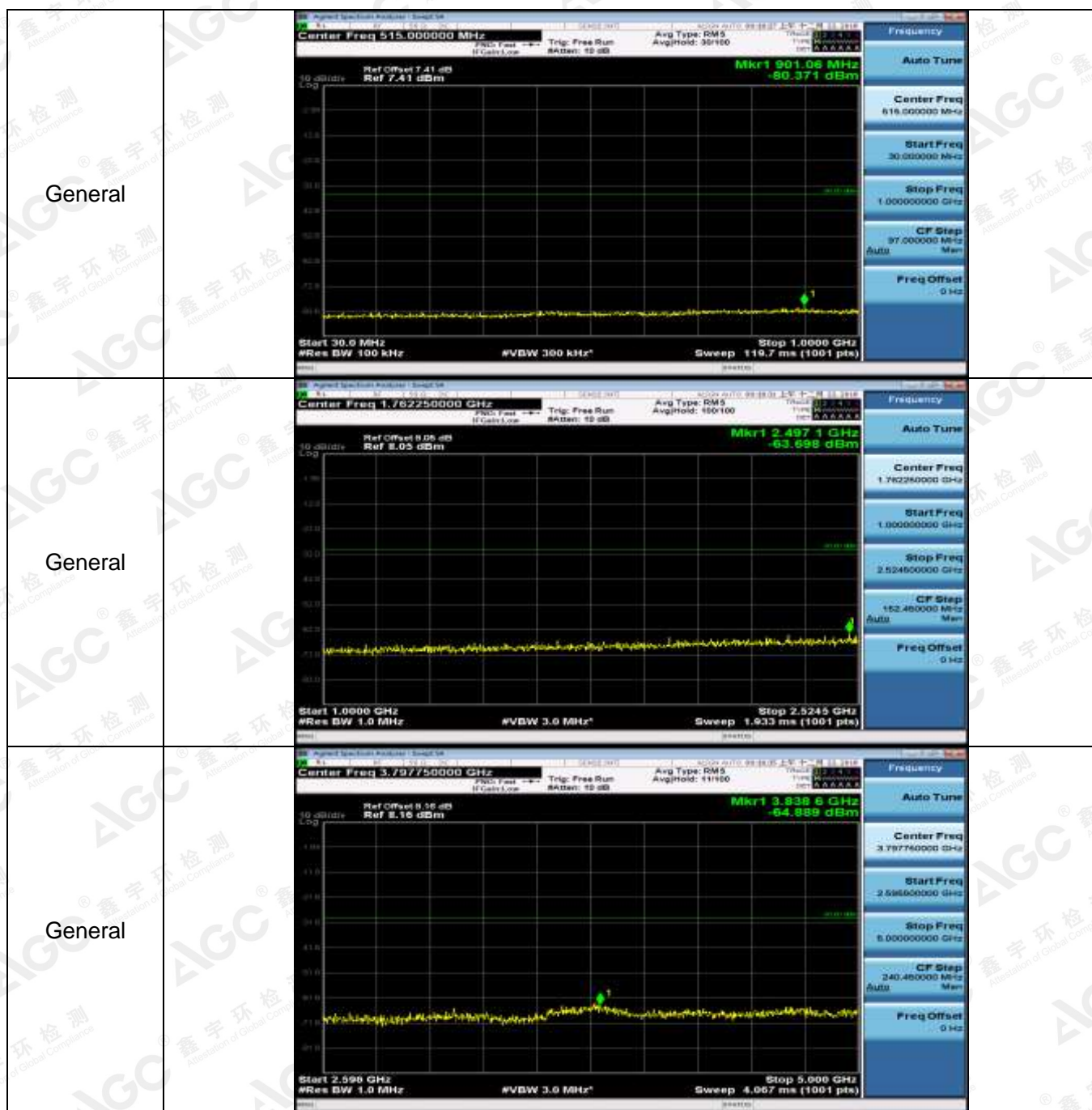
Co-existence	
Co-existence	
Co-existence	

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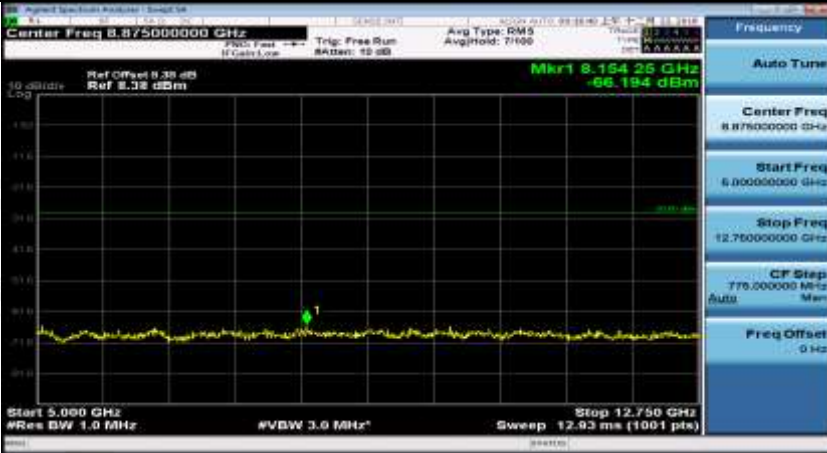
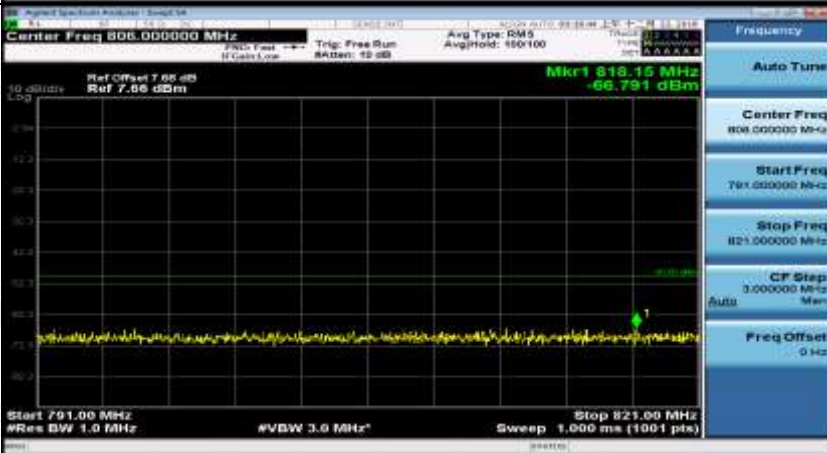
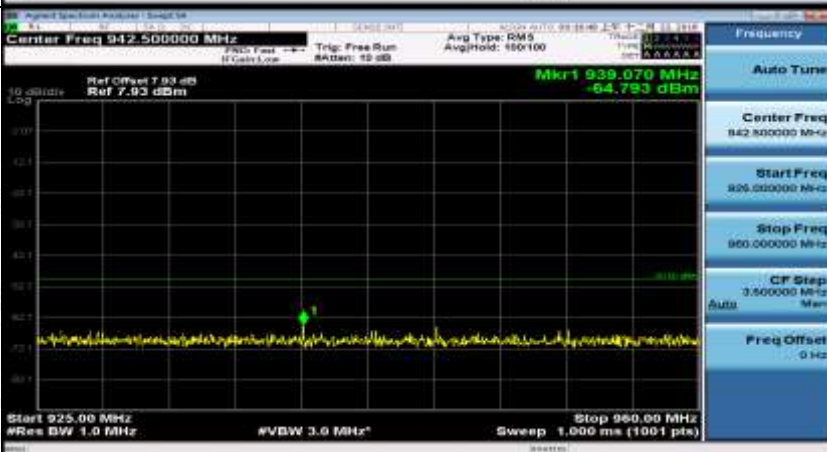
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	
General	

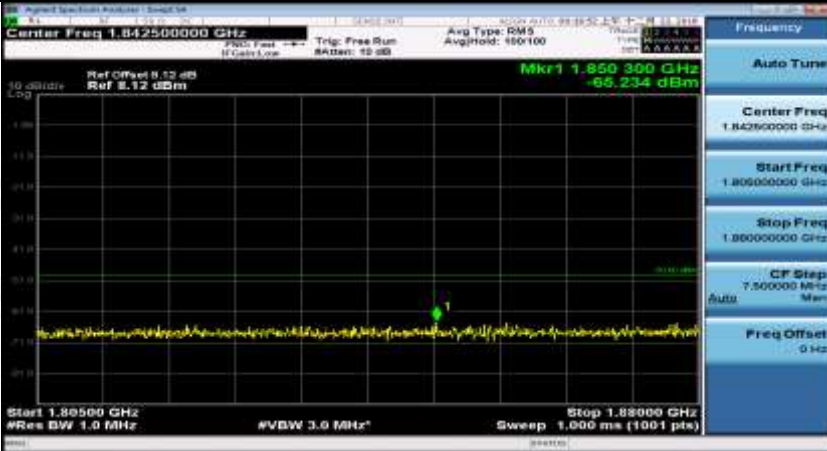
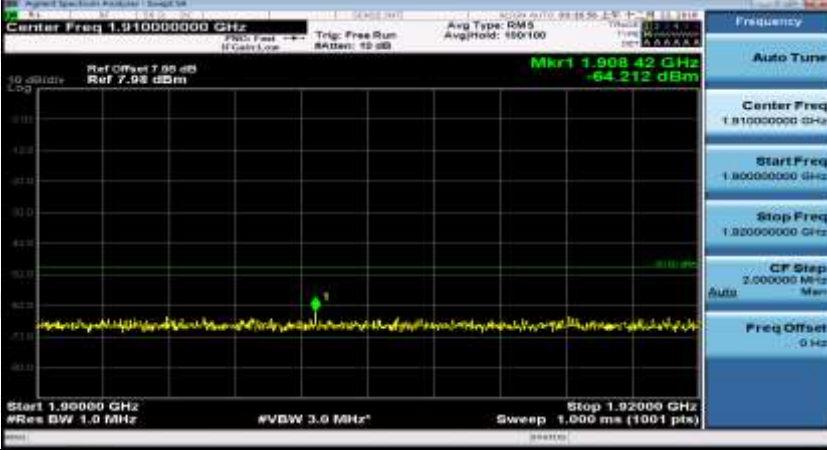
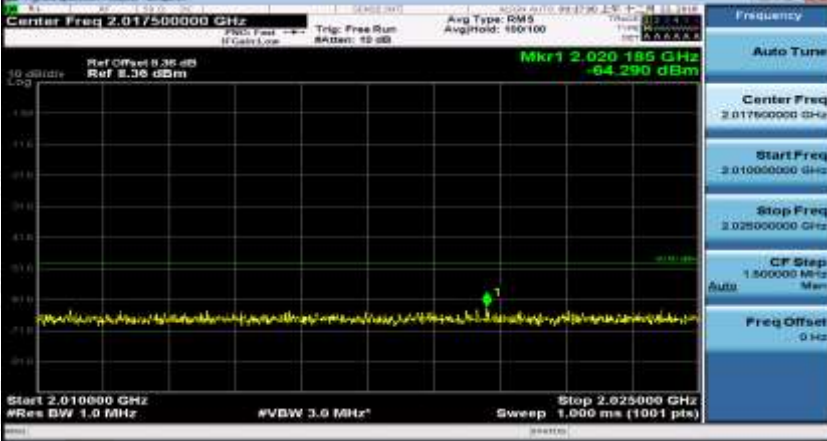
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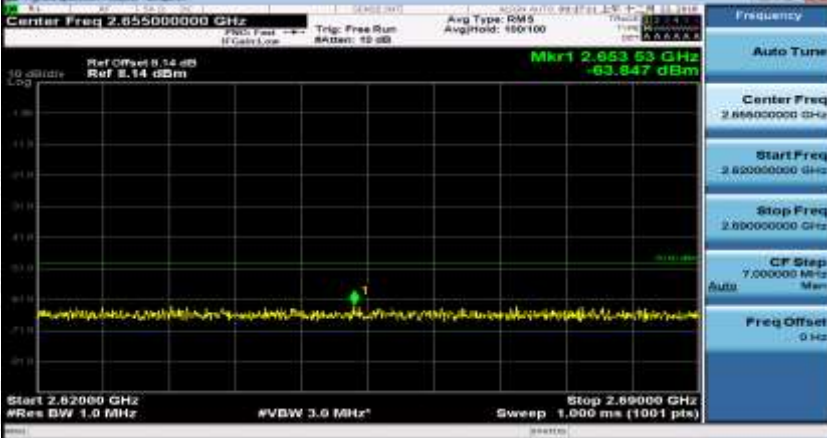
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General	
Co-existence	
Co-existence	


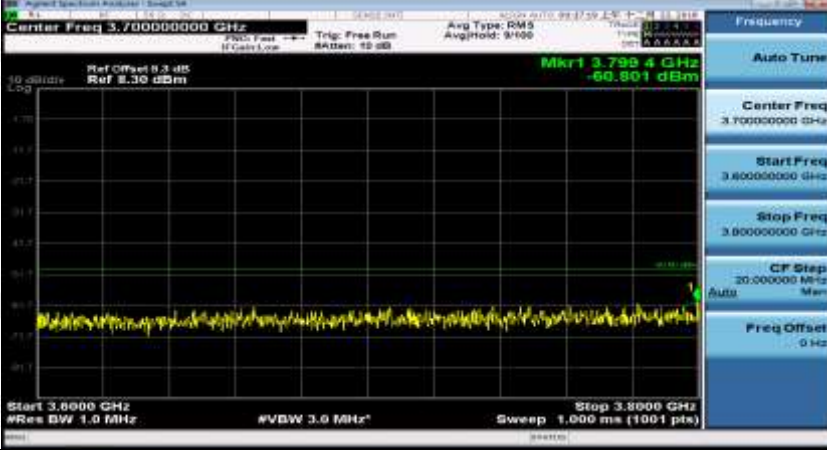
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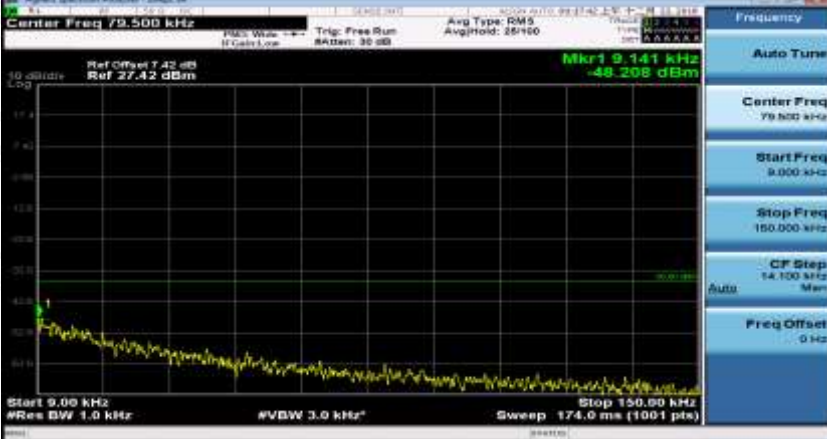
Co-existence	
Co-existence	
Co-existence	

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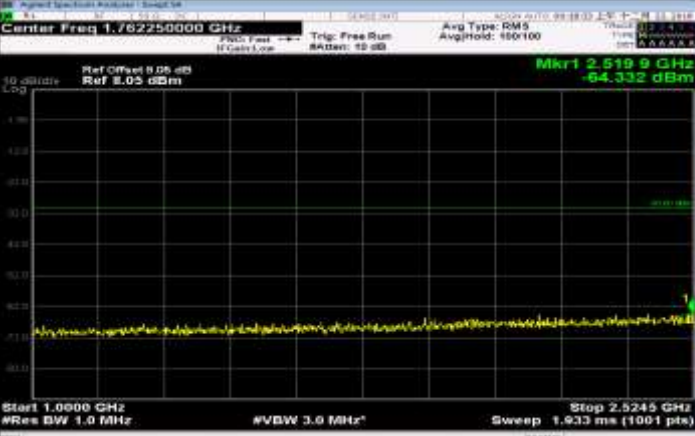
Co-existence	
Co-existence	
Co-existence	

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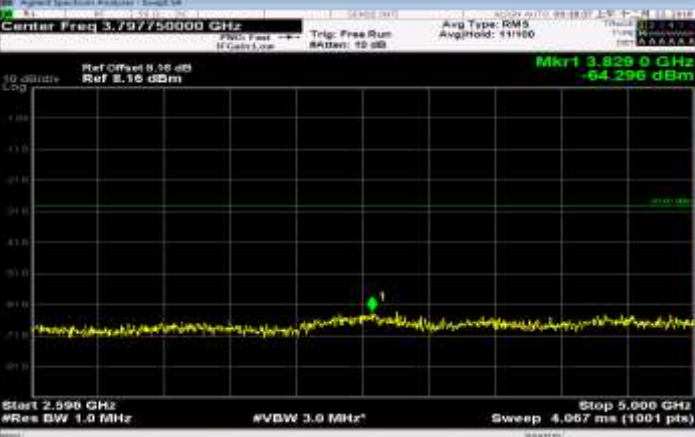

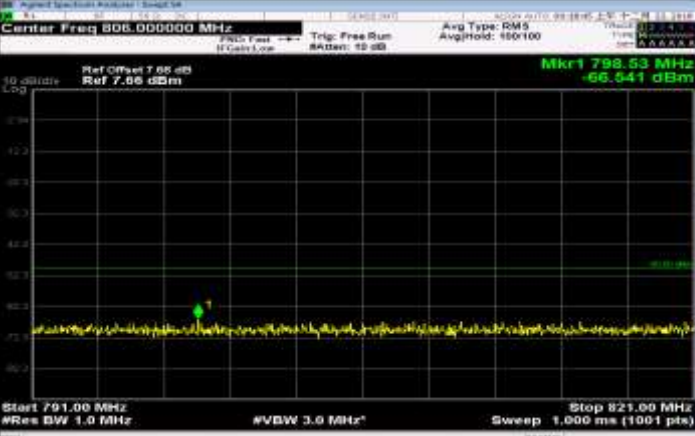
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	


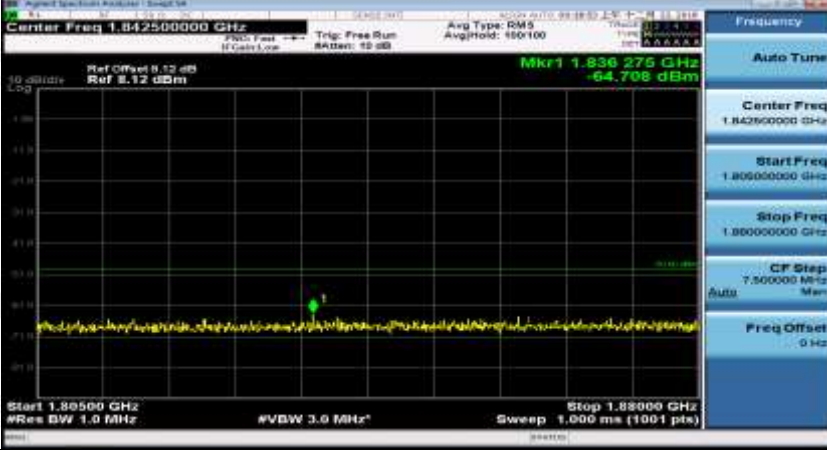
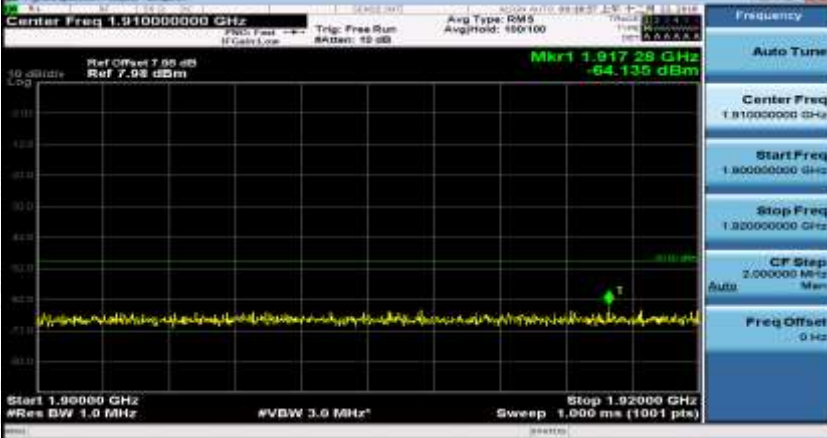
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.500000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.762250000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 2.524500000 GHz</p> <p>CF Step 152.450000 MHz</p> <p>Freq Offset 0 Hz</p>

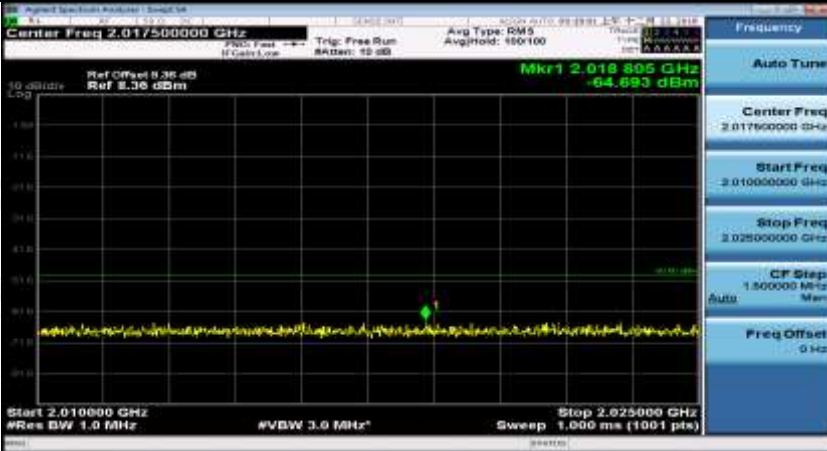
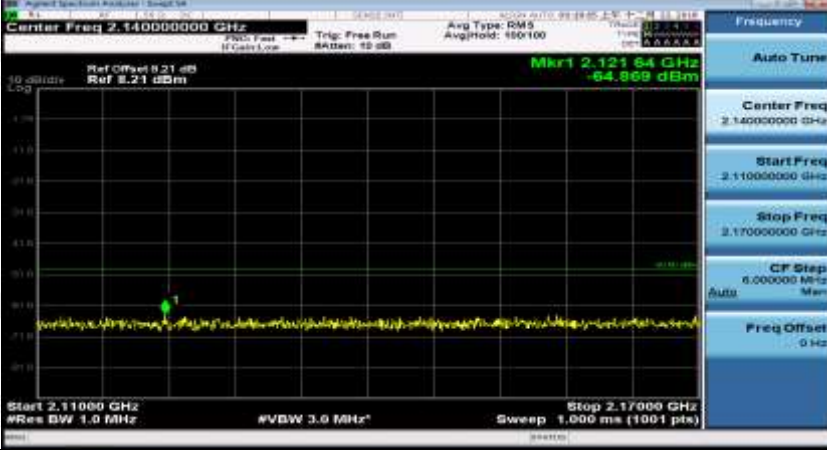
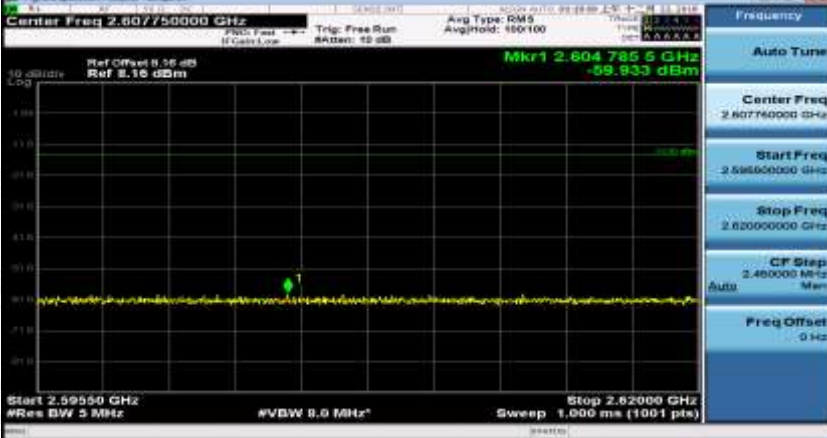
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.97750000 GHz</p> <p>Start Freq 2.98000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 240.480000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 6.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 781.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

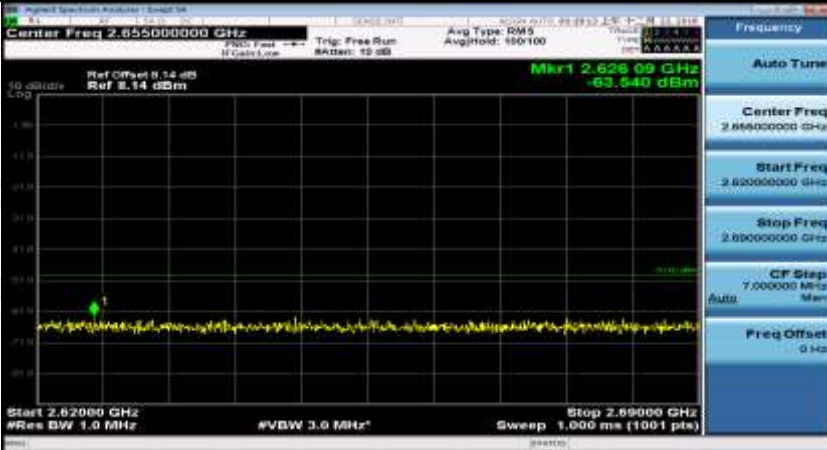
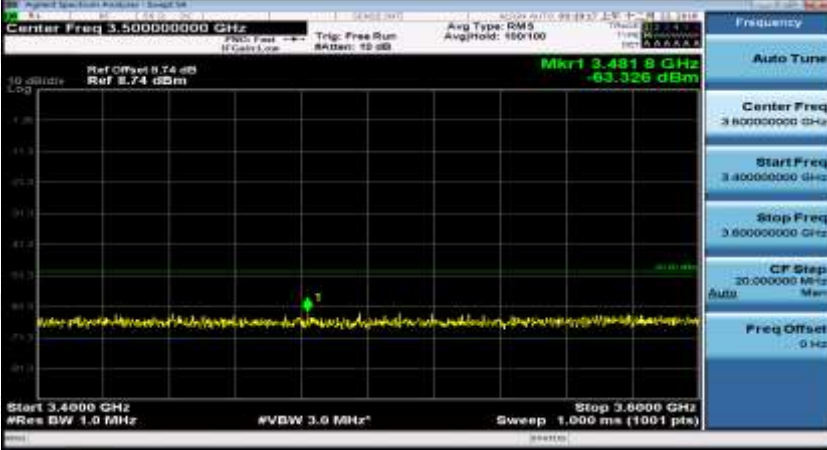
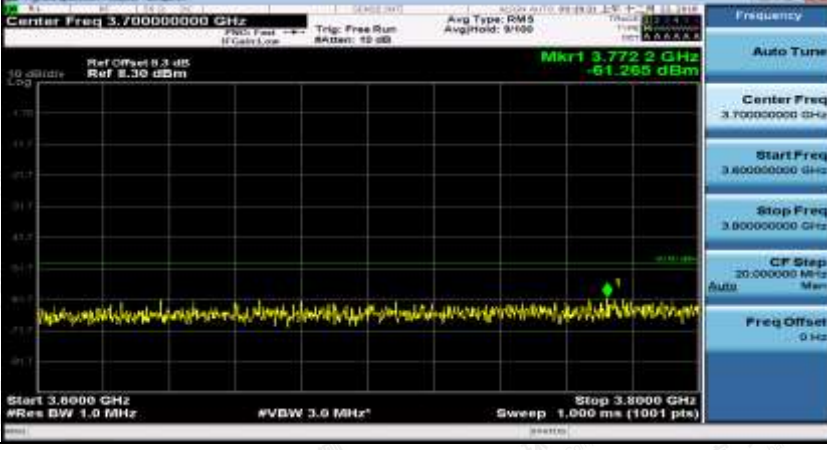
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

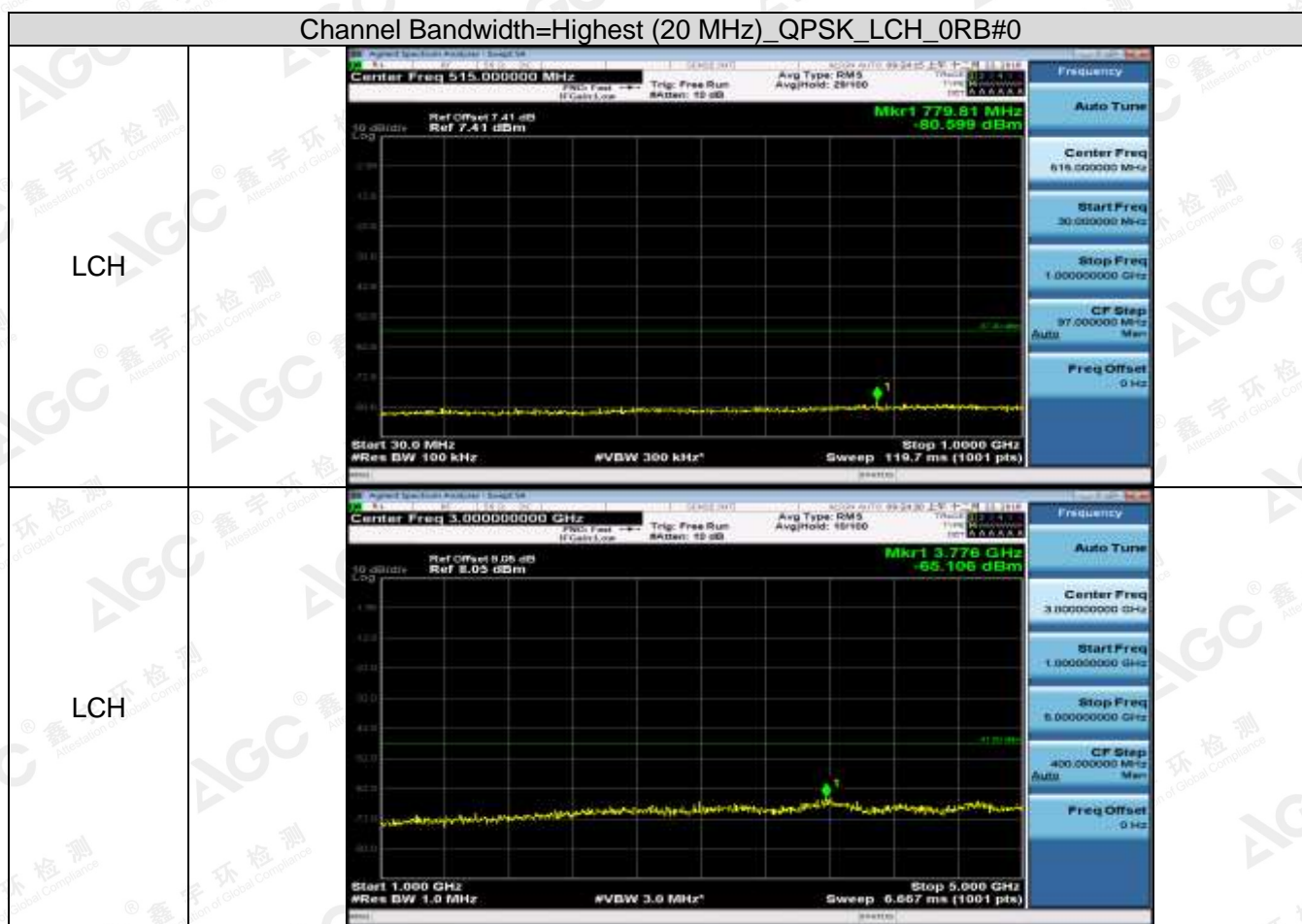
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

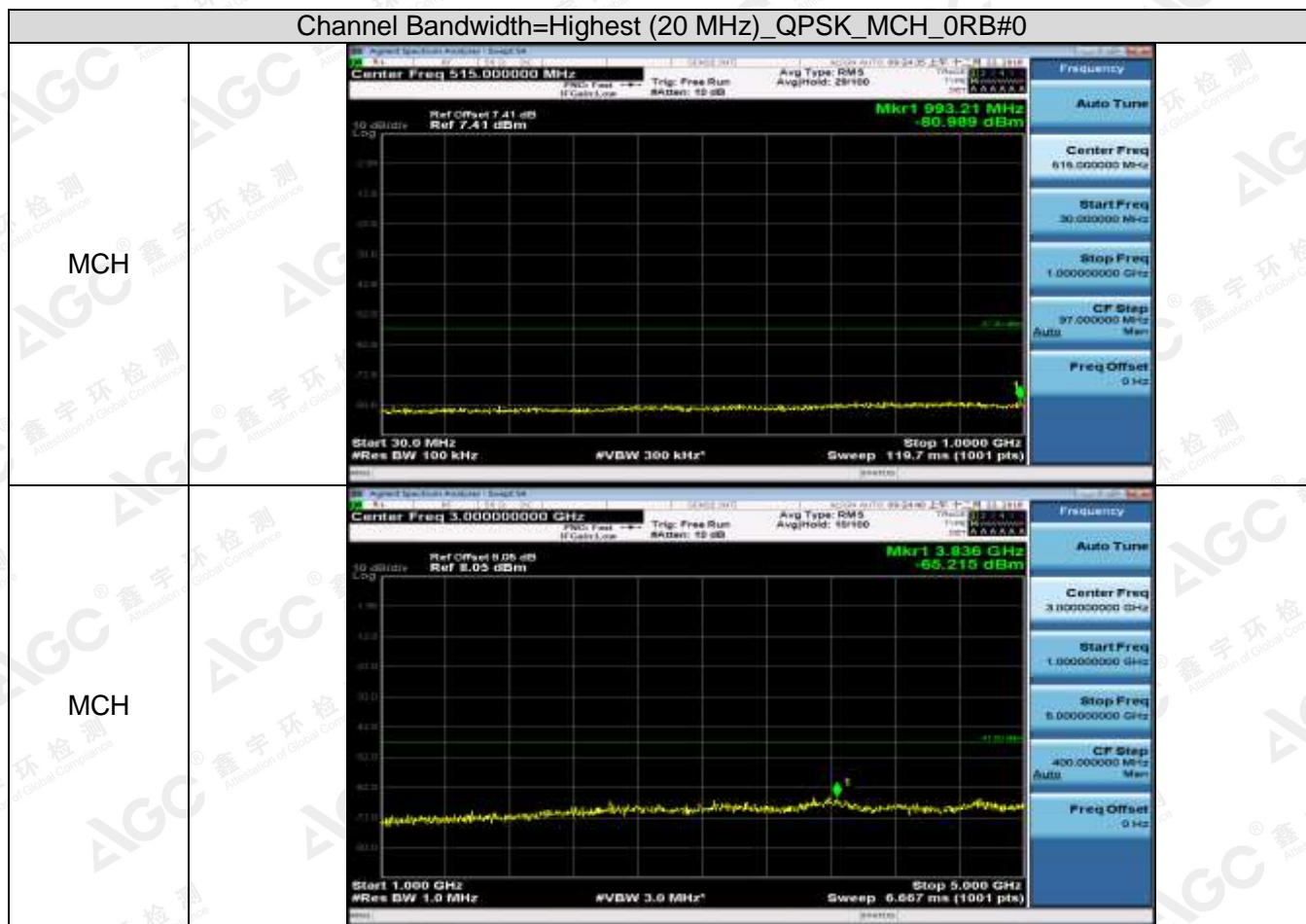
Test Graphs

NTNV

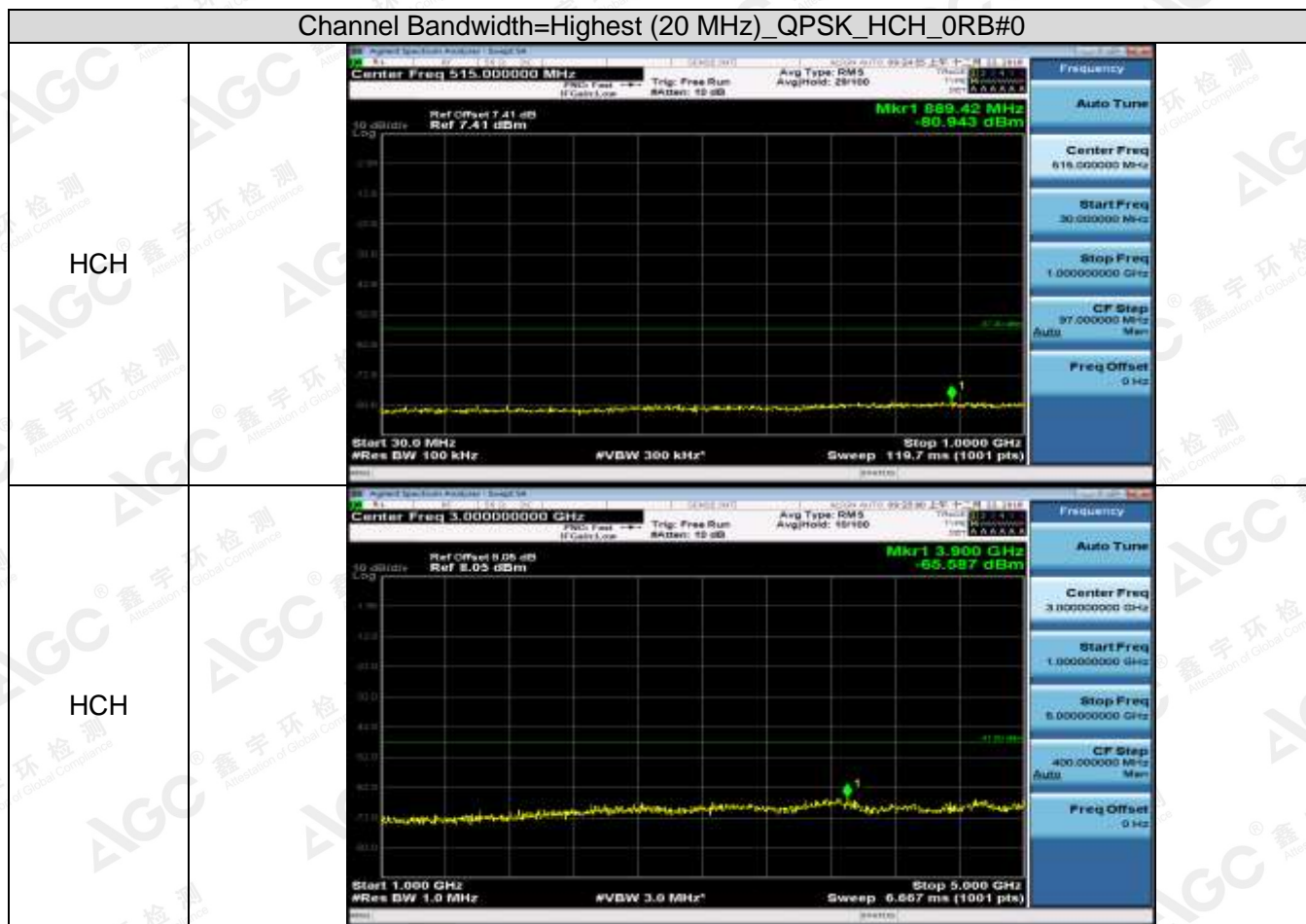
Channel Bandwidth=Highest



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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max .Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-86.85	-87.52	-86.39
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-73.40	-72.45	-72.16
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-71.76	-70.32	-70.84
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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Out-of Band Blocking

Test Environment	NC				
Test Frequencies	Low range for FInterferer below FDL_low High range for FInterferer above FDL_high				
Test Channel Bandwidths	Lowest, 5MHz, Highest 20MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 7			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

NTNV

	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfiguration		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
			FDD		FDD		
TNVN	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					
TL,VL	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					
TL,VH	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					

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Appendix D for Band 8

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	23.67	Pass
					max	23.51	Pass
				Partial	0	23.54	Pass
					max	23.55	Pass
			Mid range	1	0	23.65	Pass
					max	23.50	Pass
				Partial	0	23.54	Pass
					max	23.53	Pass
			High range	1	0	23.68	Pass
					max	23.67	Pass
				Partial	0	23.76	Pass
					max	23.84	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	1	0	23.48	Pass
					max	23.49	Pass
				Partial	0	23.47	Pass
					max	23.49	Pass
			Mid range	1	0	23.56	Pass
					max	23.51	Pass
				Partial	0	23.53	Pass
					max	23.47	Pass
			High range	1	0	23.58	Pass
					max	23.66	Pass
				Partial	0	23.73	Pass
					max	23.71	Pass

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Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	1	0	23.47	Pass
					max	23.53	Pass
				Partial	0	23.52	Pass
					max	23.58	Pass
			Mid range	1	0	23.55	Pass
					max	23.54	Pass
				Partial	0	23.54	Pass
					max	23.55	Pass
			High range	1	0	23.65	Pass
					max	23.65	Pass
				Partial	0	23.72	Pass
					max	23.65	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Full	0	-48.98	Pass
			Mid range	Full	0	-49.80	Pass
			High range	Full	0	-49.62	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	Full	0	-49.58	Pass
			Mid range	Full	0	-49.61	Pass
			High range	Full	0	-49.42	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Full	0	-49.49	Pass
			Mid range	Full	0	-49.52	Pass
			High range	Full	0	-49.22	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full		0	PUMAX	Pass		
	16QAM		Low range	Partial	0	PUMAX	Pass

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			Mid range		max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

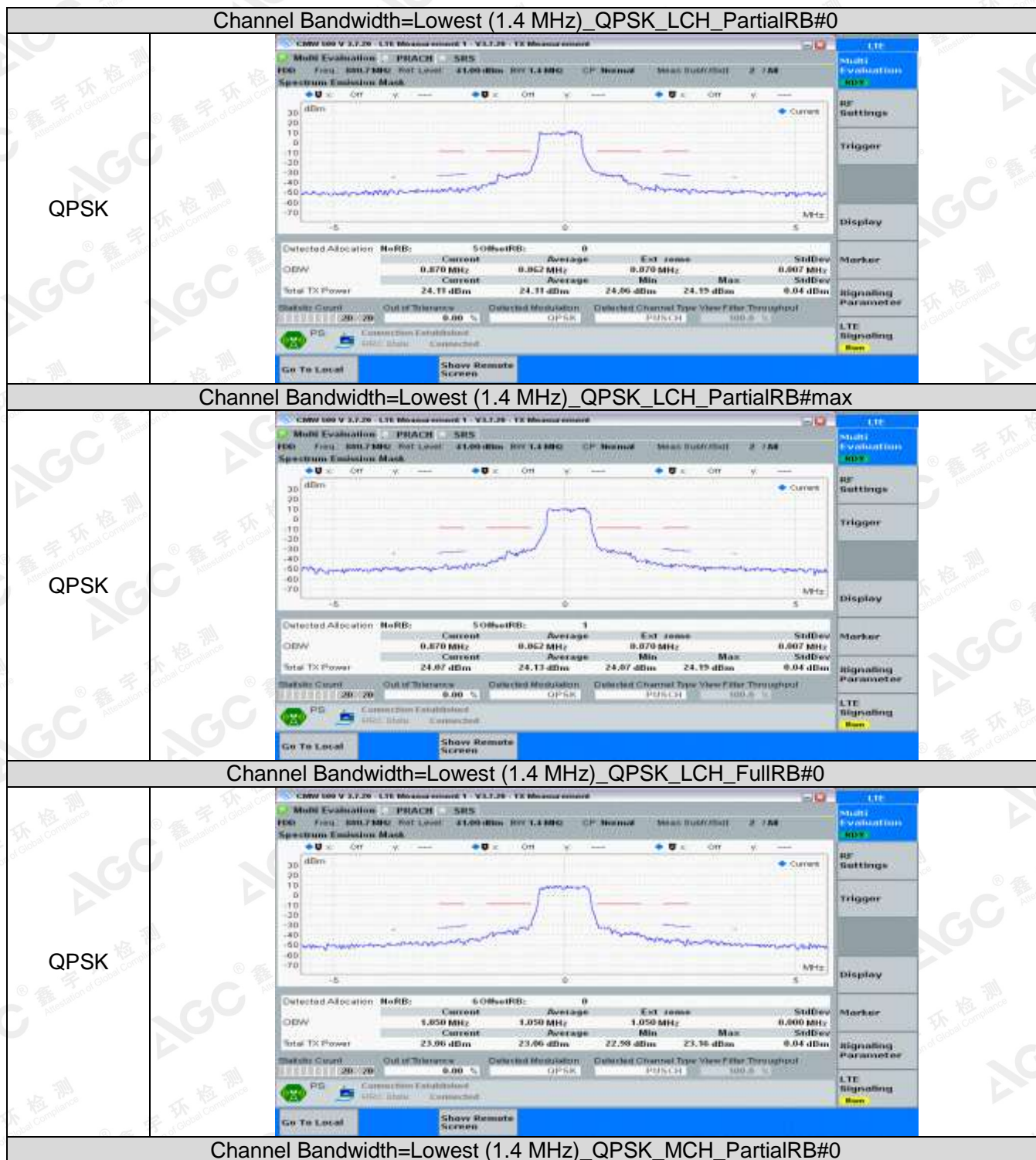
Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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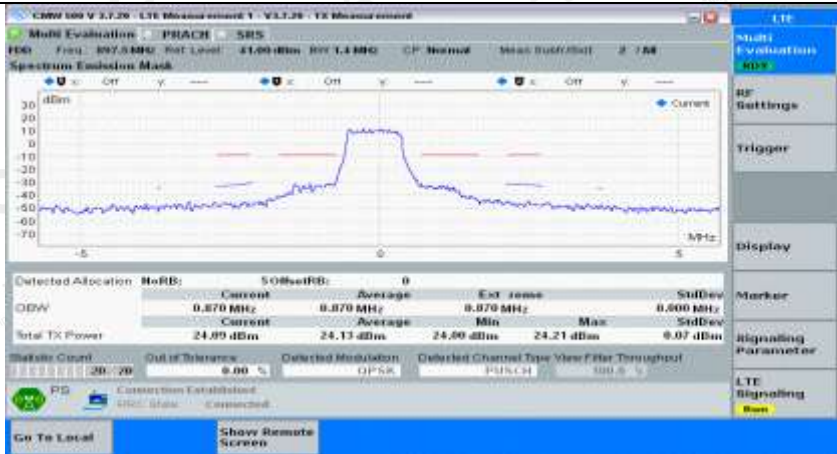
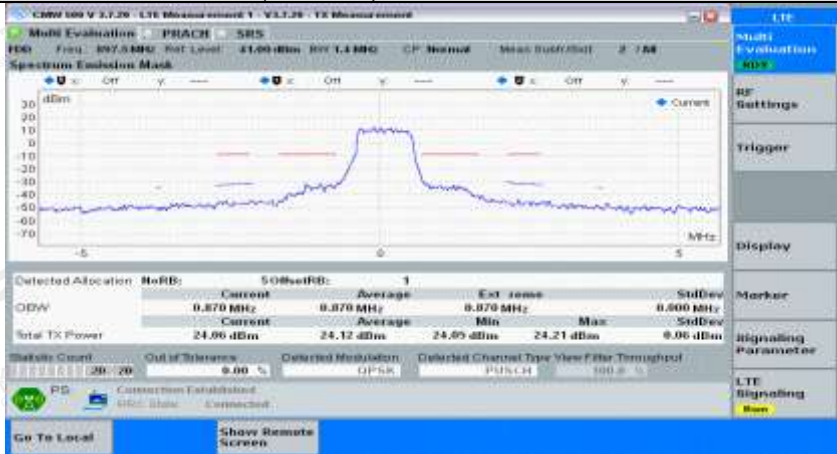
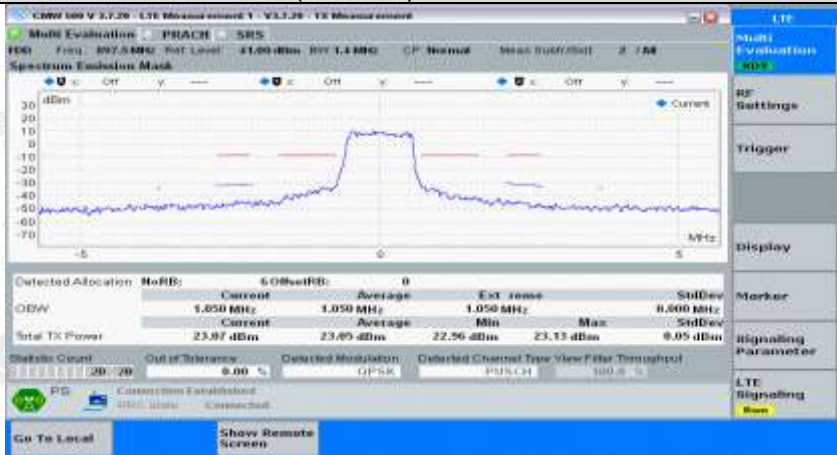
Test Graphs

NTNV

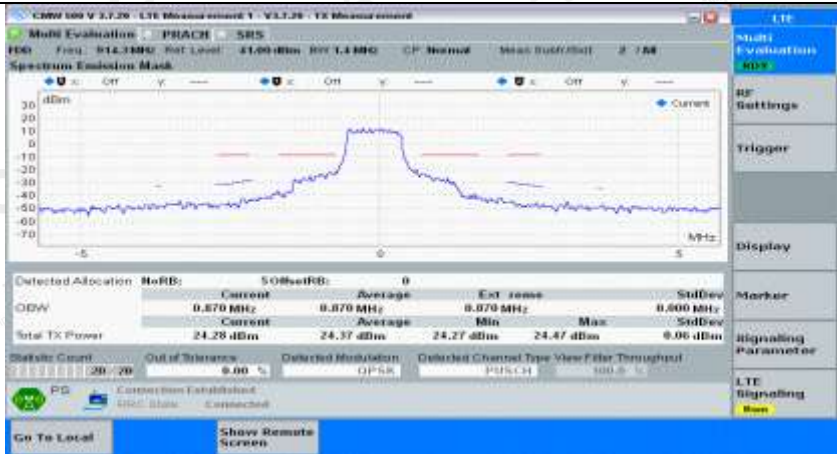
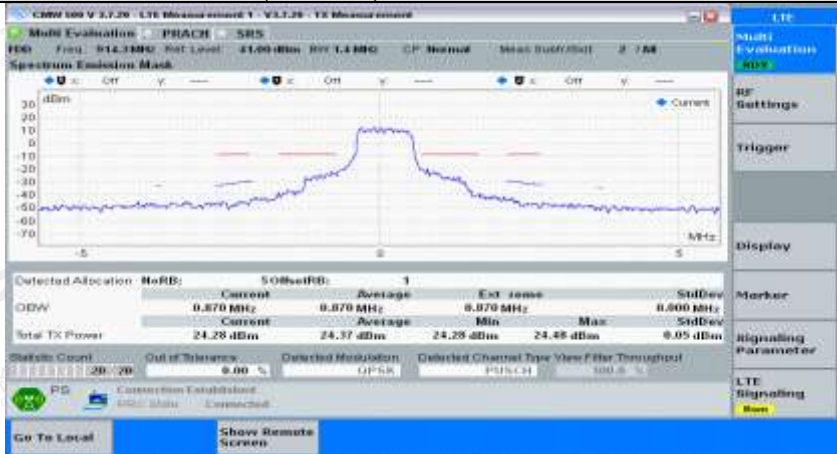
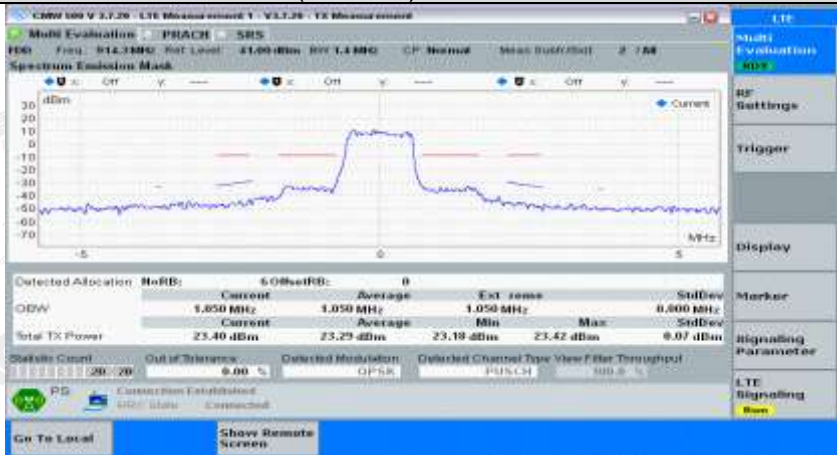
Channel Bandwidth=Lowest (1.4 MHz)



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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0	

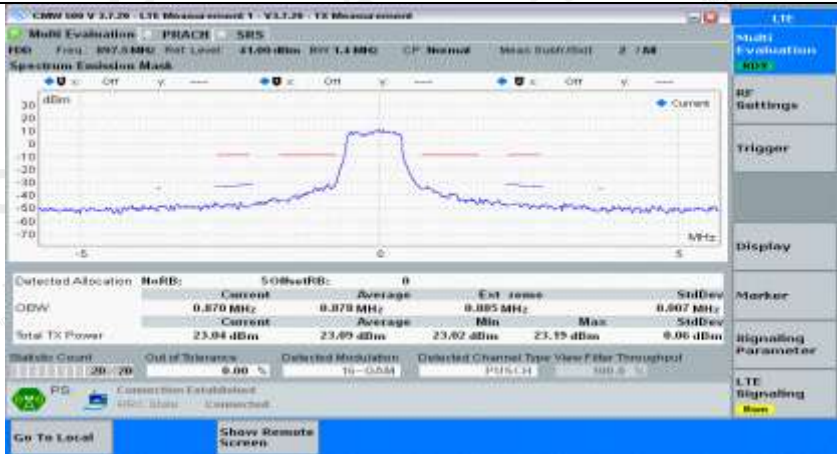
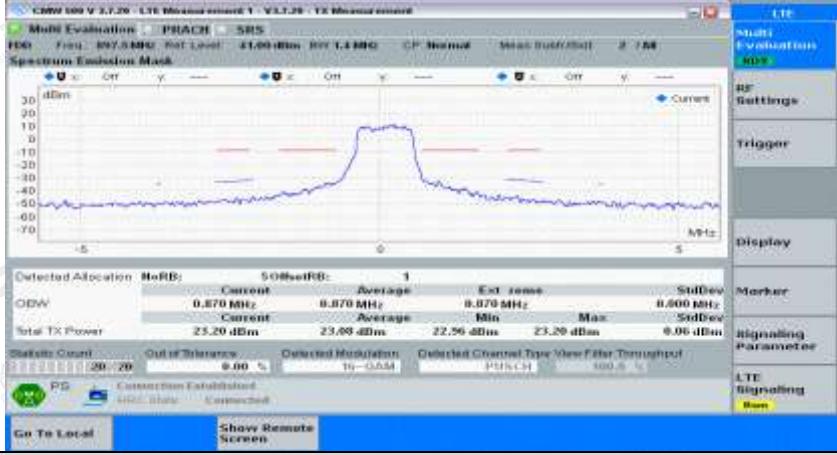
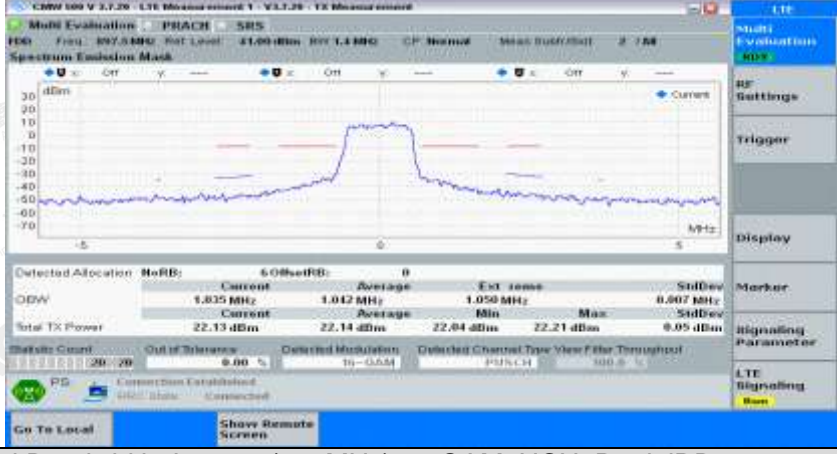
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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0</p>

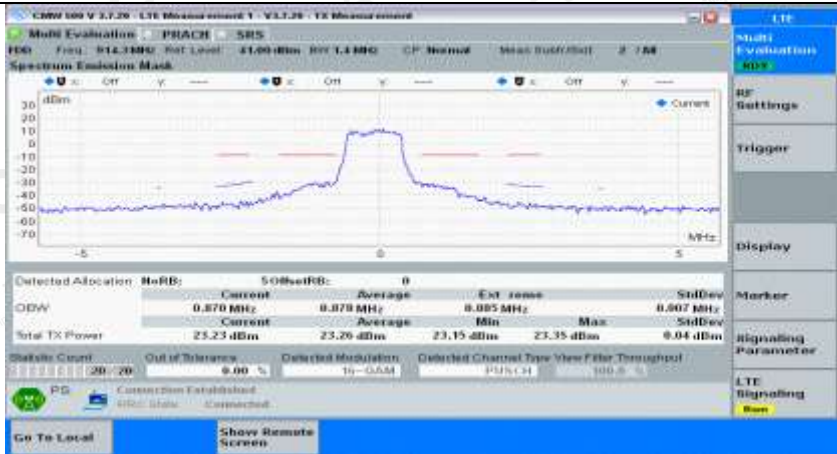
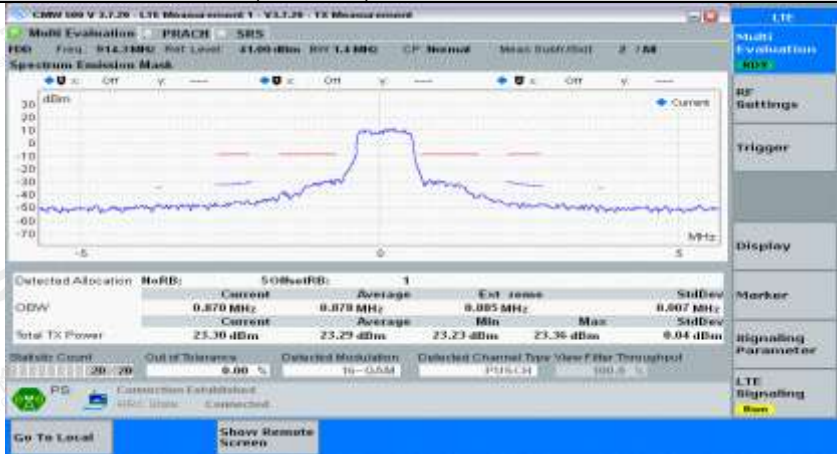
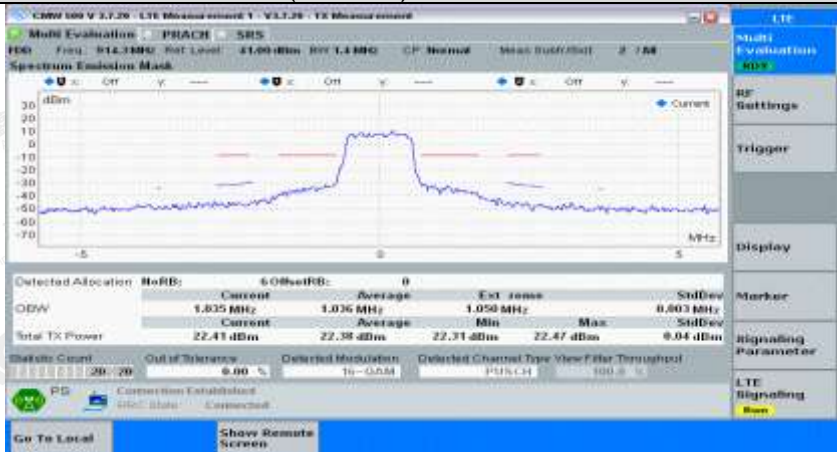
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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0	

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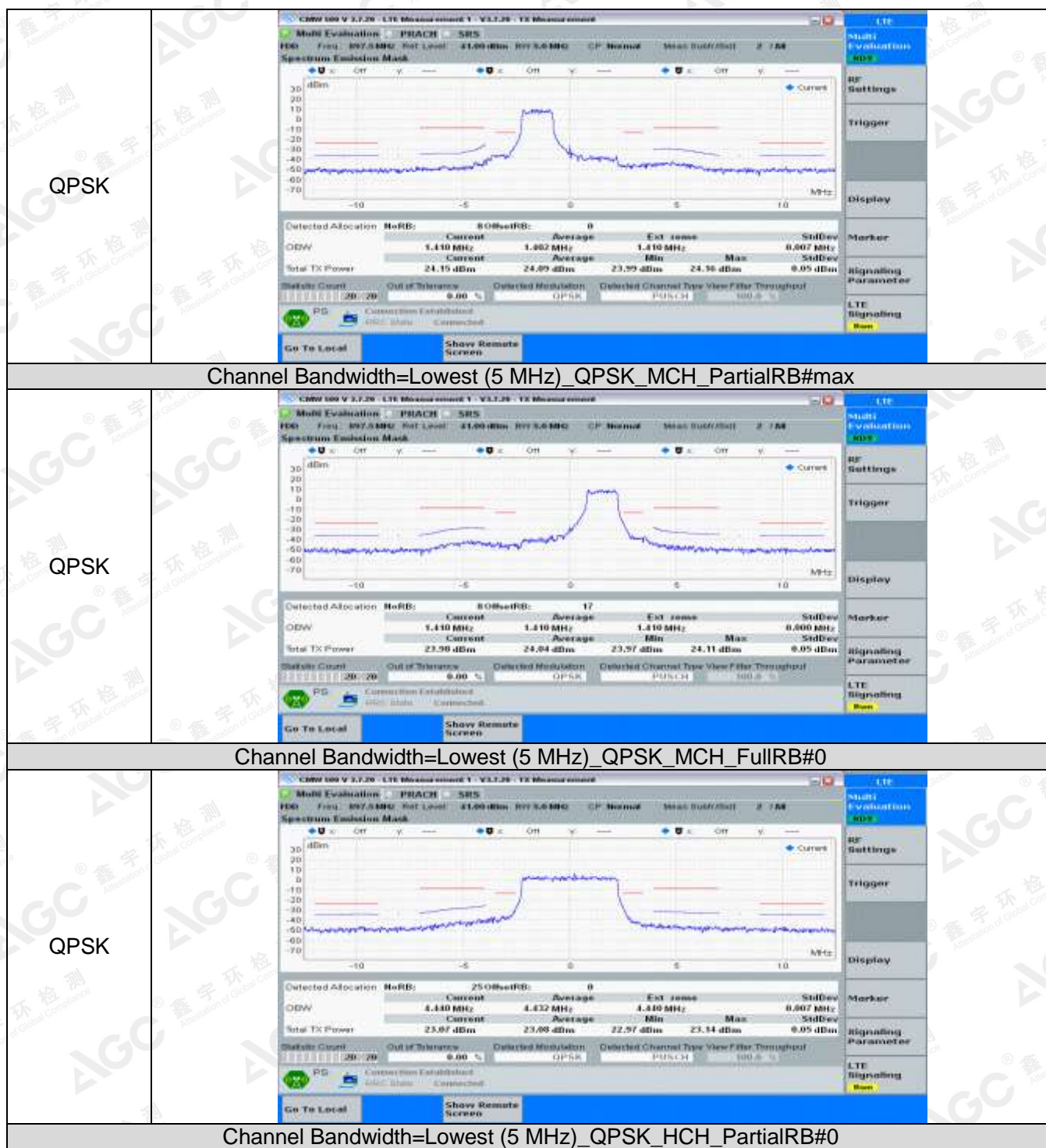
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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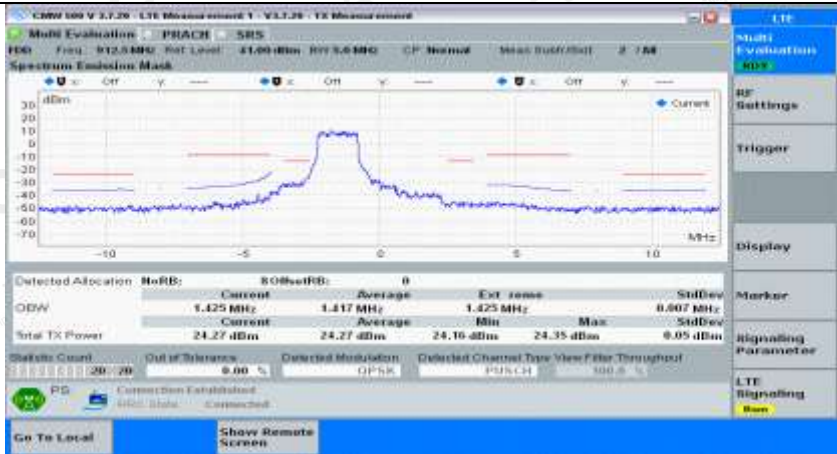
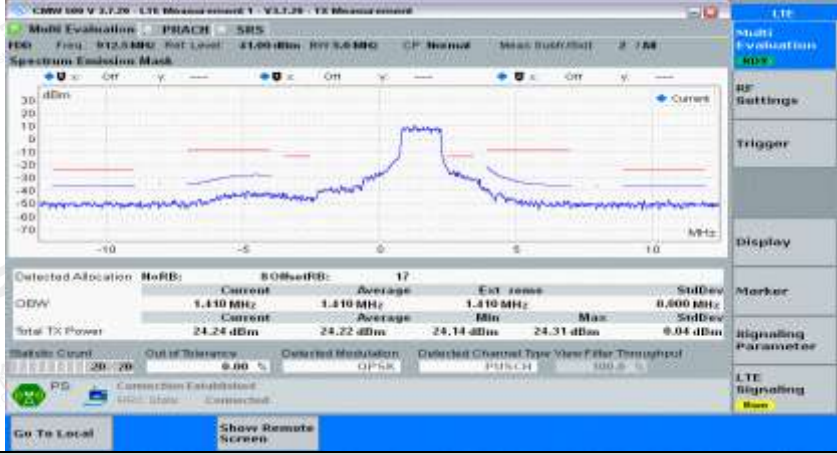
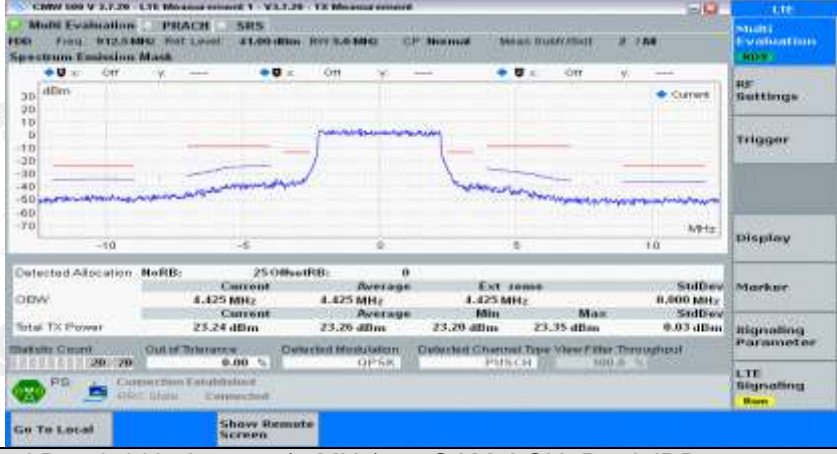
Channel Bandwidth= (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	

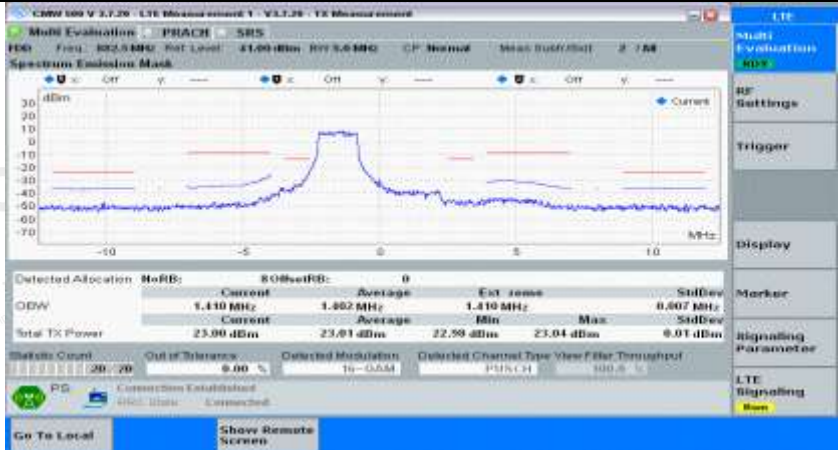
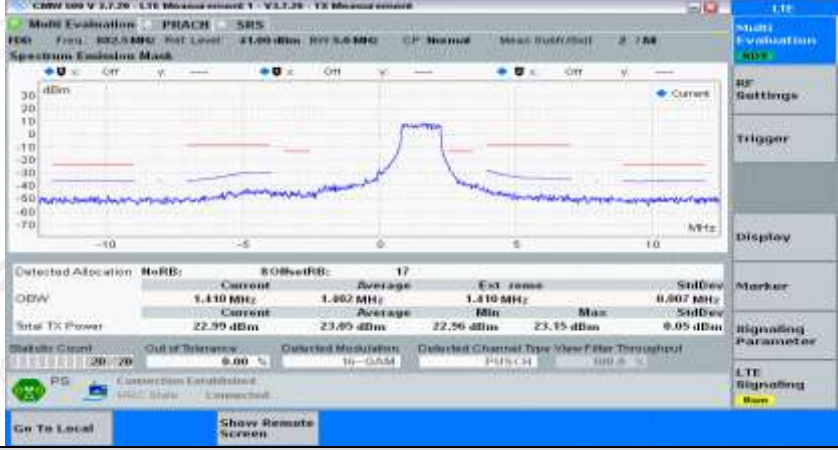
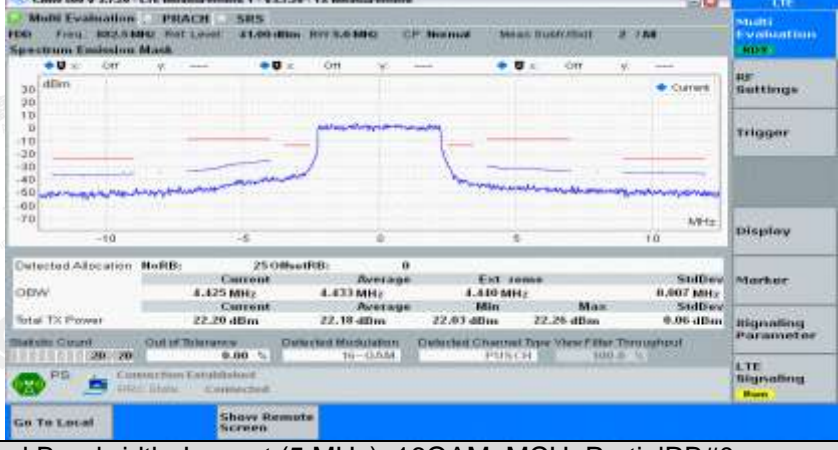
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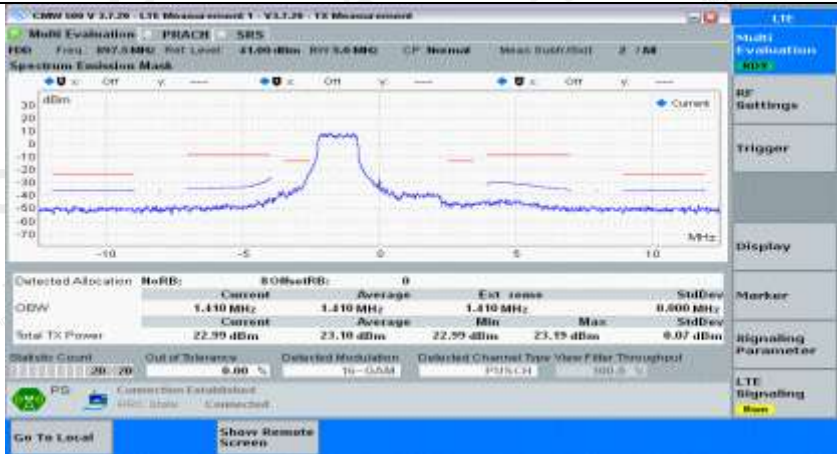
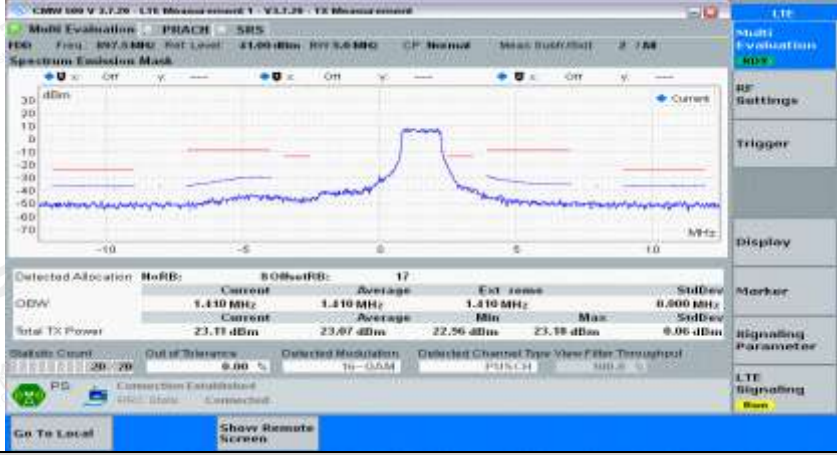
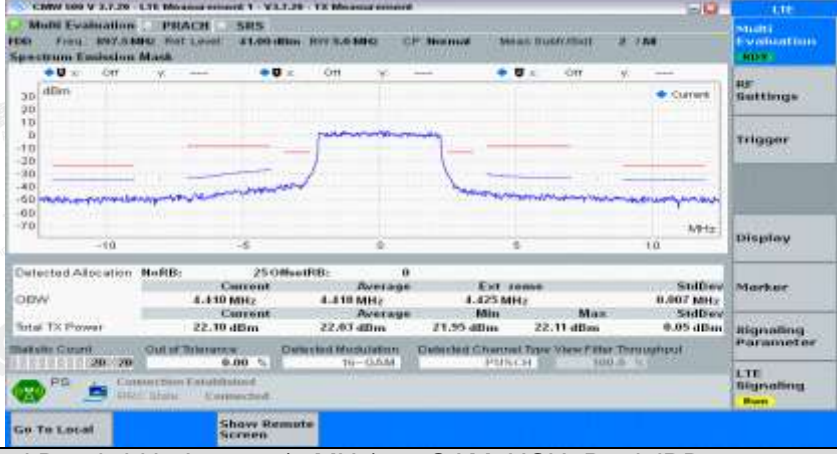
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

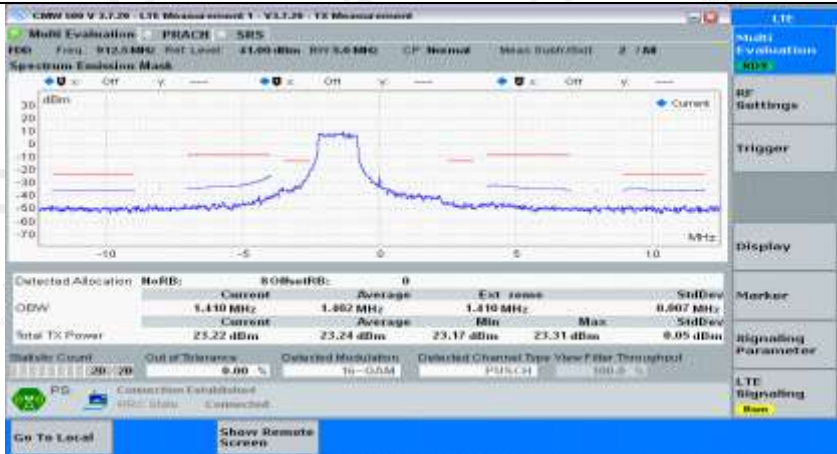
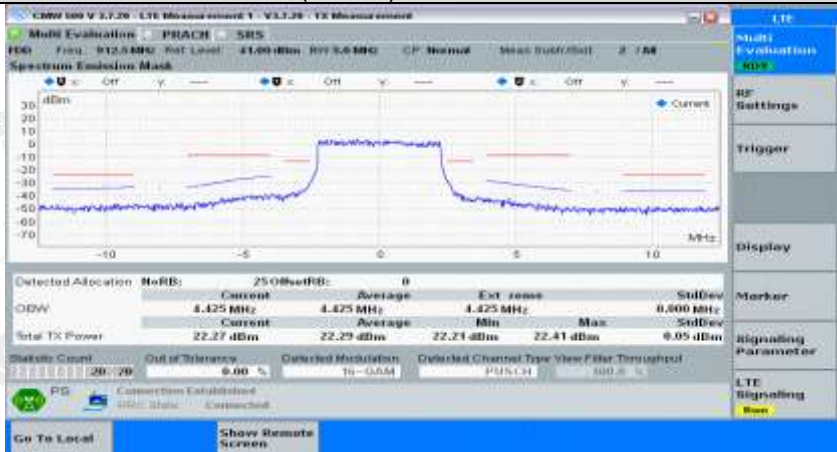
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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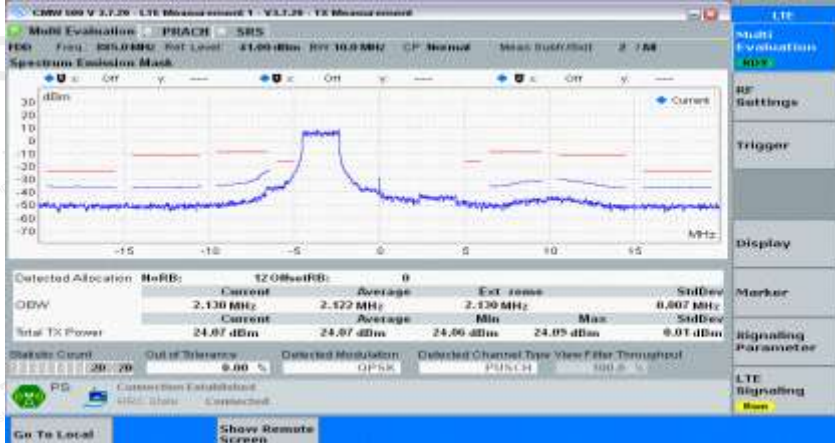
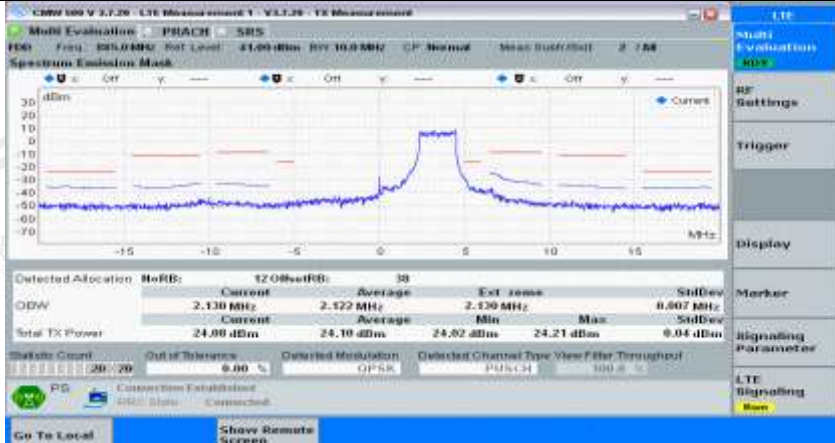
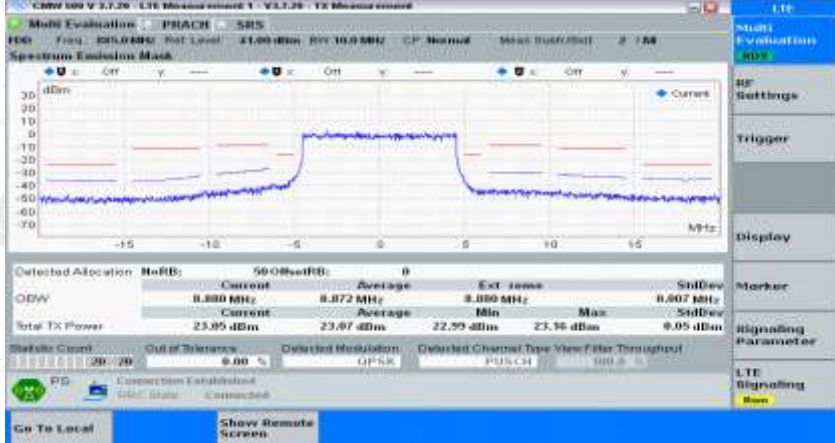
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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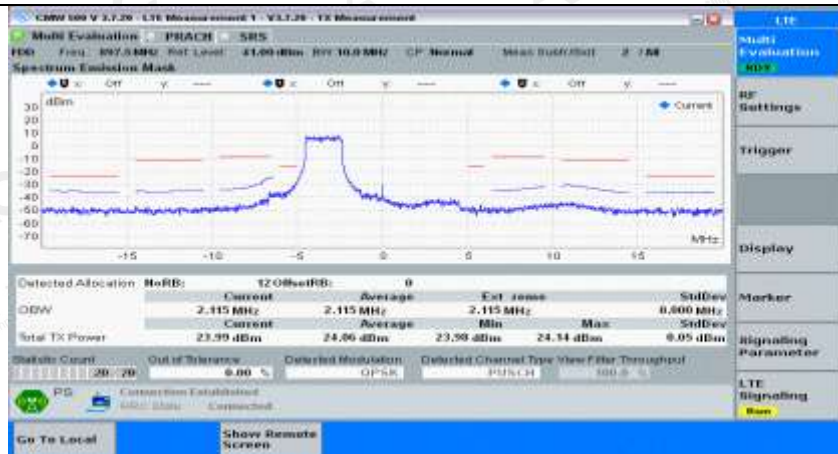
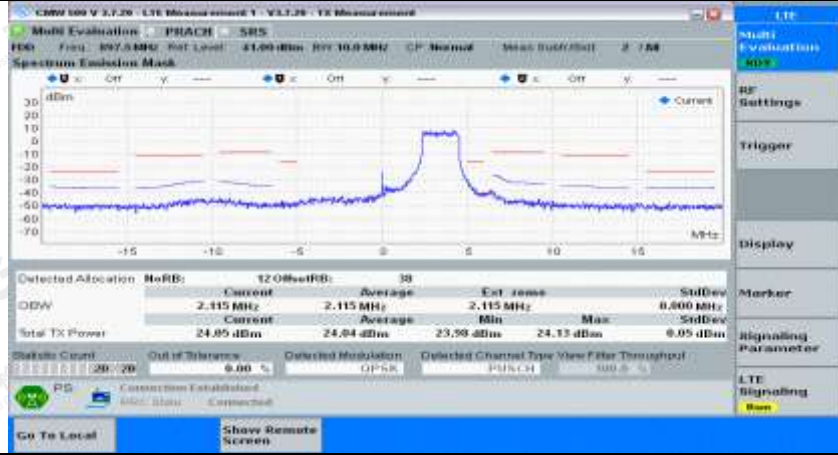
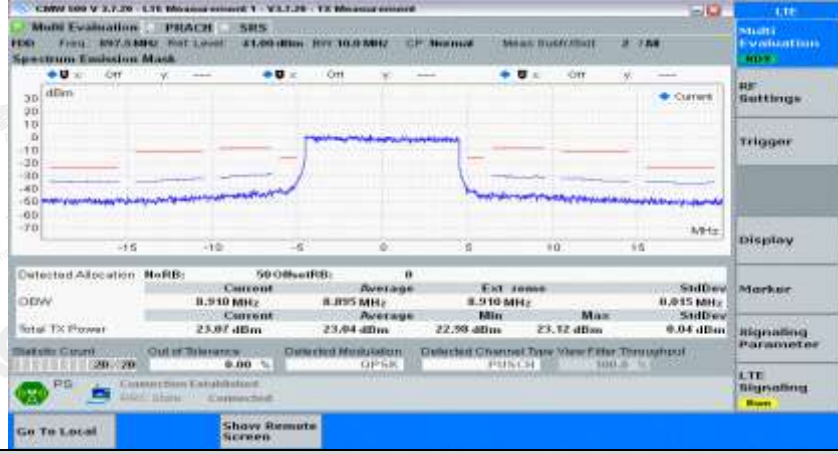
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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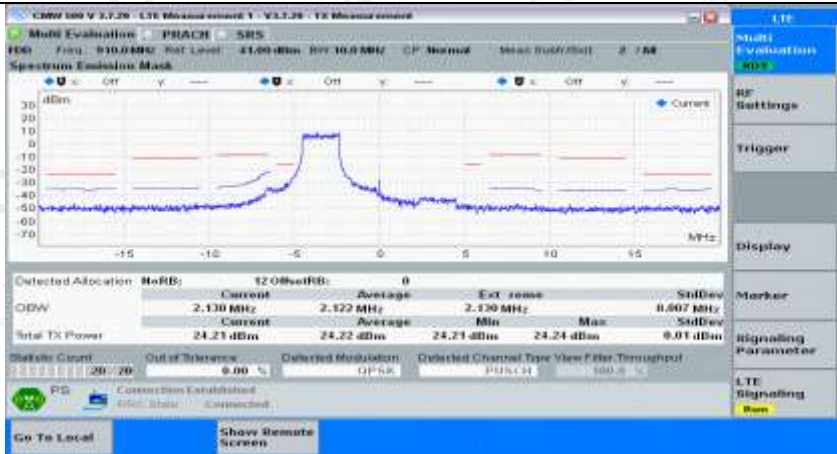
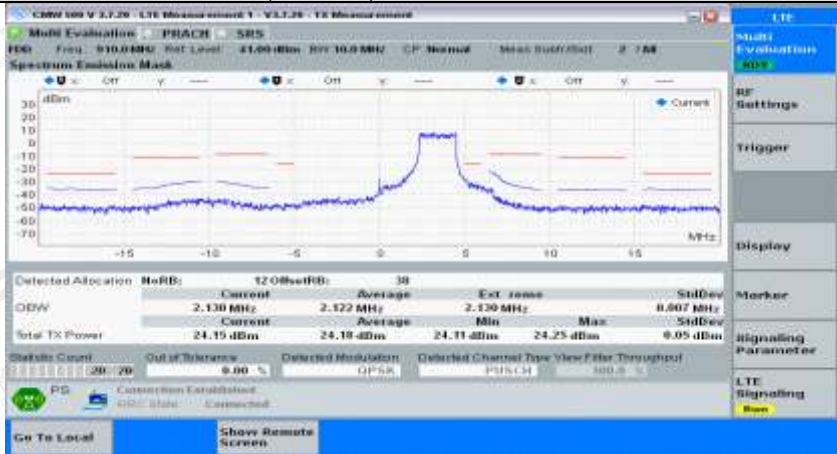
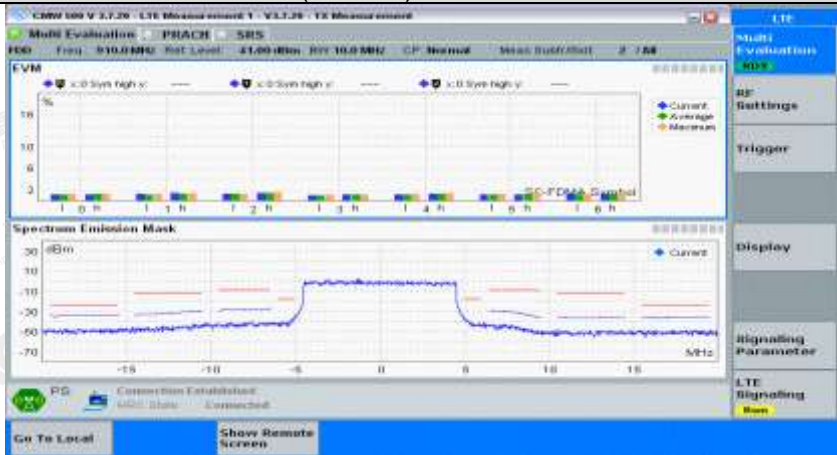
Channel Bandwidth=Highest (10 MHz)

QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0</p> 
	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0</p>

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QPSK	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">120 Subcarriers</th><th colspan="2">Ext. zones</th><th colspan="2">SubDev</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Min</th><th>Max</th><th>Current</th><th>Average</th></tr><tr><td>2.115 MHz</td><td>2.115 MHz</td><td>2.115 MHz</td><td>2.115 MHz</td><td>0.000 MHz</td><td>0.000 MHz</td><td>0.05 dBm</td><td>0.05 dBm</td></tr><tr><td>23.99 dBm</td><td>24.04 dBm</td><td>23.99 dBm</td><td>24.14 dBm</td><td></td><td></td><td></td><td></td></tr></table>	Detected Allocation		120 Subcarriers		Ext. zones		SubDev		Current	Average	Current	Average	Min	Max	Current	Average	2.115 MHz	2.115 MHz	2.115 MHz	2.115 MHz	0.000 MHz	0.000 MHz	0.05 dBm	0.05 dBm	23.99 dBm	24.04 dBm	23.99 dBm	24.14 dBm				
Detected Allocation		120 Subcarriers		Ext. zones		SubDev																											
Current	Average	Current	Average	Min	Max	Current	Average																										
2.115 MHz	2.115 MHz	2.115 MHz	2.115 MHz	0.000 MHz	0.000 MHz	0.05 dBm	0.05 dBm																										
23.99 dBm	24.04 dBm	23.99 dBm	24.14 dBm																														
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max																																	
QPSK	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">38 Subcarriers</th><th colspan="2">Ext. zones</th><th colspan="2">SubDev</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Min</th><th>Max</th><th>Current</th><th>Average</th></tr><tr><td>2.115 MHz</td><td>2.115 MHz</td><td>2.115 MHz</td><td>2.115 MHz</td><td>0.000 MHz</td><td>0.000 MHz</td><td>0.05 dBm</td><td>0.05 dBm</td></tr><tr><td>24.05 dBm</td><td>24.04 dBm</td><td>23.99 dBm</td><td>24.13 dBm</td><td></td><td></td><td></td><td></td></tr></table>	Detected Allocation		38 Subcarriers		Ext. zones		SubDev		Current	Average	Current	Average	Min	Max	Current	Average	2.115 MHz	2.115 MHz	2.115 MHz	2.115 MHz	0.000 MHz	0.000 MHz	0.05 dBm	0.05 dBm	24.05 dBm	24.04 dBm	23.99 dBm	24.13 dBm				
Detected Allocation		38 Subcarriers		Ext. zones		SubDev																											
Current	Average	Current	Average	Min	Max	Current	Average																										
2.115 MHz	2.115 MHz	2.115 MHz	2.115 MHz	0.000 MHz	0.000 MHz	0.05 dBm	0.05 dBm																										
24.05 dBm	24.04 dBm	23.99 dBm	24.13 dBm																														
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0																																	
QPSK	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">50 Subcarriers</th><th colspan="2">Ext. zones</th><th colspan="2">SubDev</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Min</th><th>Max</th><th>Current</th><th>Average</th></tr><tr><td>8.910 MHz</td><td>8.915 MHz</td><td>8.910 MHz</td><td>8.915 MHz</td><td>0.015 MHz</td><td>0.015 MHz</td><td>0.04 dBm</td><td>0.04 dBm</td></tr><tr><td>23.97 dBm</td><td>23.94 dBm</td><td>22.99 dBm</td><td>23.12 dBm</td><td></td><td></td><td></td><td></td></tr></table>	Detected Allocation		50 Subcarriers		Ext. zones		SubDev		Current	Average	Current	Average	Min	Max	Current	Average	8.910 MHz	8.915 MHz	8.910 MHz	8.915 MHz	0.015 MHz	0.015 MHz	0.04 dBm	0.04 dBm	23.97 dBm	23.94 dBm	22.99 dBm	23.12 dBm				
Detected Allocation		50 Subcarriers		Ext. zones		SubDev																											
Current	Average	Current	Average	Min	Max	Current	Average																										
8.910 MHz	8.915 MHz	8.910 MHz	8.915 MHz	0.015 MHz	0.015 MHz	0.04 dBm	0.04 dBm																										
23.97 dBm	23.94 dBm	22.99 dBm	23.12 dBm																														
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0																																	

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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

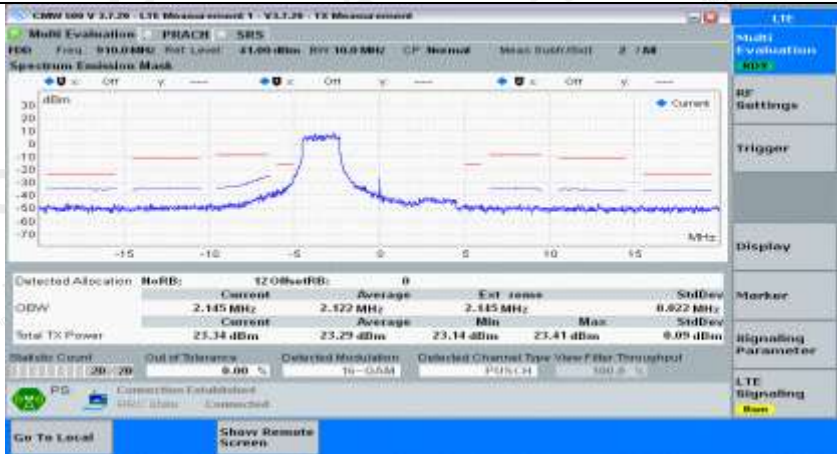
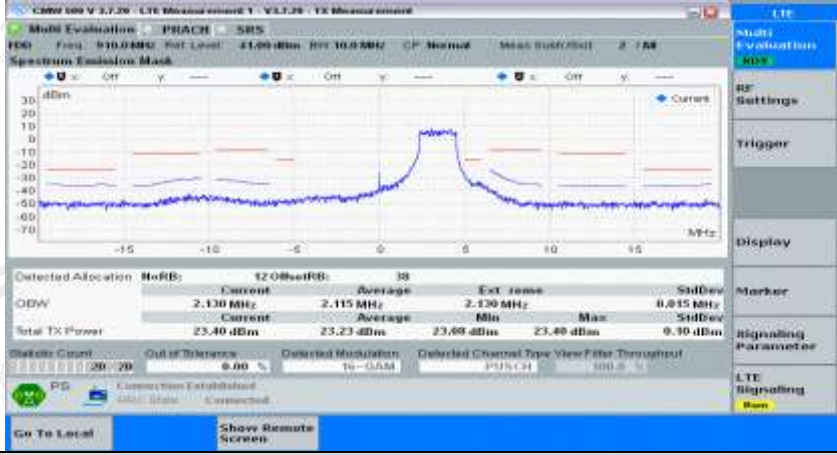
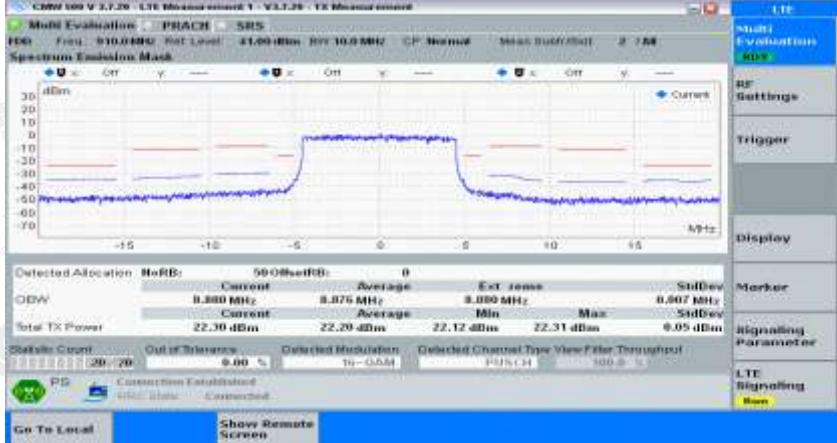
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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	16QAM	Low range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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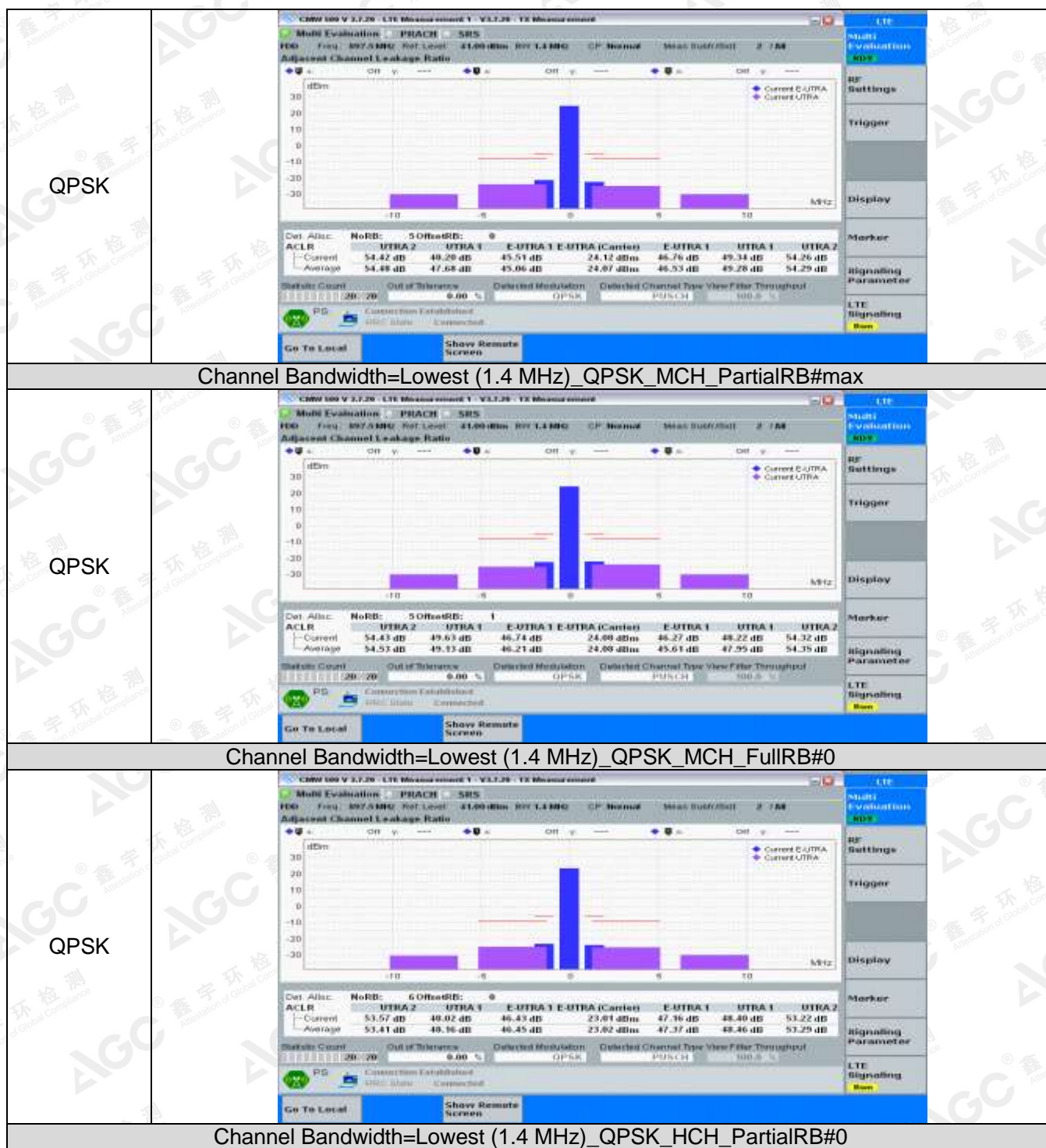
Test Graphs

NTNV




Channel Bandwidth=Lowest (1.4 MHz)



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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0</p>

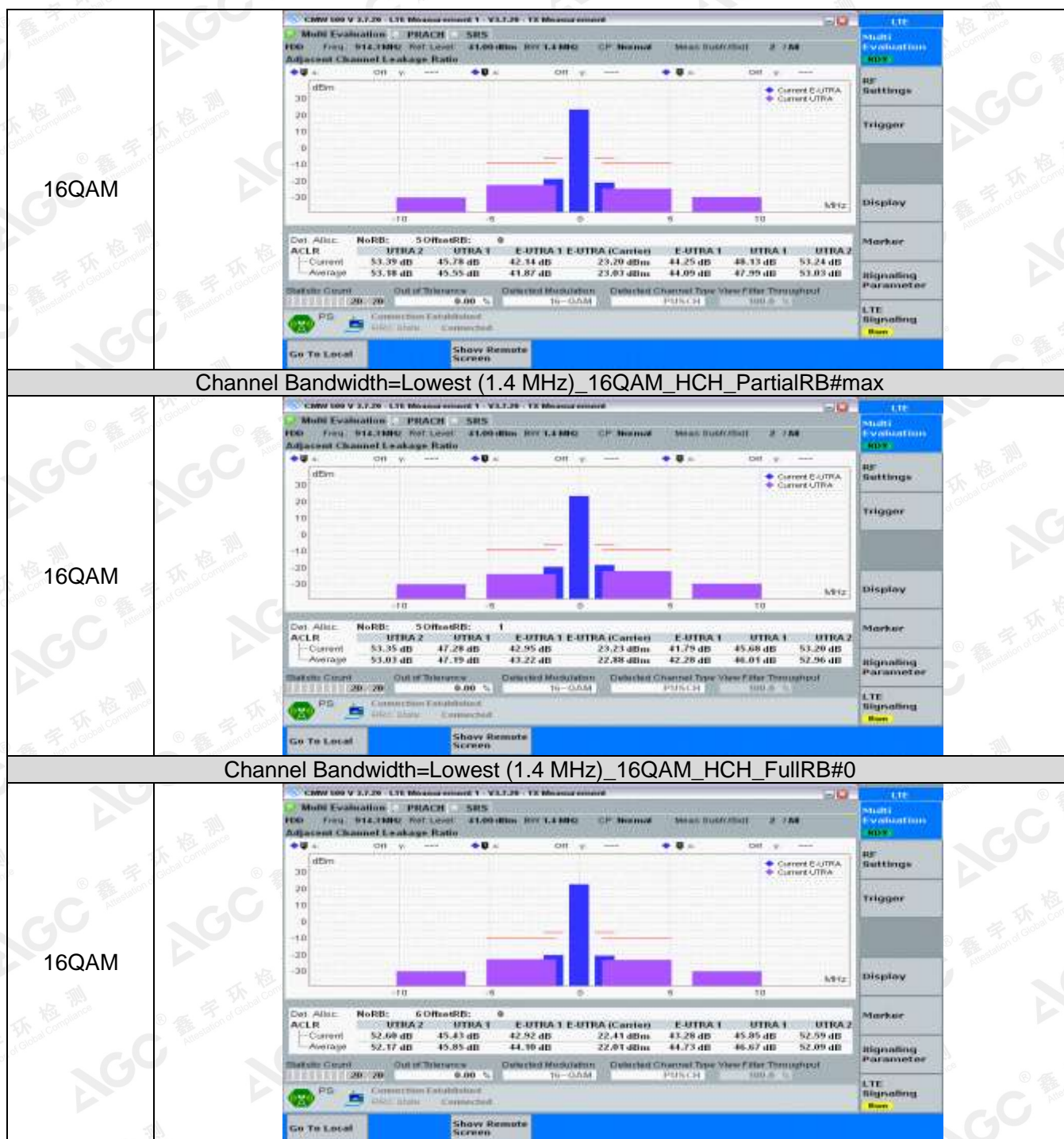
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16QAM	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>5 Offsets</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Center)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td>52.98 dB</td><td>49.52 dB</td><td>45.03 dB</td><td>22.46 dBm</td><td>47.47 dB</td><td>48.88 dB</td><td>53.27 dB</td></tr><tr><td>Average</td><td></td><td></td><td>53.45 dB</td><td>47.81 dB</td><td>44.35 dB</td><td>22.93 dBm</td><td>46.30 dB</td><td>48.85 dB</td><td>53.32 dB</td></tr></table>	Det. Alloc.	NoRB	5 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2	ACLR			52.98 dB	49.52 dB	45.03 dB	22.46 dBm	47.47 dB	48.88 dB	53.27 dB	Average			53.45 dB	47.81 dB	44.35 dB	22.93 dBm	46.30 dB	48.85 dB	53.32 dB
Det. Alloc.	NoRB	5 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2																						
ACLR			52.98 dB	49.52 dB	45.03 dB	22.46 dBm	47.47 dB	48.88 dB	53.27 dB																						
Average			53.45 dB	47.81 dB	44.35 dB	22.93 dBm	46.30 dB	48.85 dB	53.32 dB																						
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max																															
16QAM	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>5 Offsets</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Center)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td>53.11 dB</td><td>49.63 dB</td><td>47.54 dB</td><td>22.78 dBm</td><td>45.00 dB</td><td>48.02 dB</td><td>53.10 dB</td></tr><tr><td>Average</td><td></td><td></td><td>53.44 dB</td><td>49.11 dB</td><td>46.58 dB</td><td>22.93 dBm</td><td>44.44 dB</td><td>47.67 dB</td><td>53.23 dB</td></tr></table>	Det. Alloc.	NoRB	5 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2	ACLR			53.11 dB	49.63 dB	47.54 dB	22.78 dBm	45.00 dB	48.02 dB	53.10 dB	Average			53.44 dB	49.11 dB	46.58 dB	22.93 dBm	44.44 dB	47.67 dB	53.23 dB
Det. Alloc.	NoRB	5 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2																						
ACLR			53.11 dB	49.63 dB	47.54 dB	22.78 dBm	45.00 dB	48.02 dB	53.10 dB																						
Average			53.44 dB	49.11 dB	46.58 dB	22.93 dBm	44.44 dB	47.67 dB	53.23 dB																						
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0																															
16QAM	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>6 Offsets</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Center)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>ACLR</td><td></td><td></td><td>52.43 dB</td><td>47.11 dB</td><td>44.26 dB</td><td>21.84 dBm</td><td>44.58 dB</td><td>47.74 dB</td><td>52.42 dB</td></tr><tr><td>Average</td><td></td><td></td><td>52.61 dB</td><td>47.24 dB</td><td>44.15 dB</td><td>22.00 dBm</td><td>44.72 dB</td><td>47.32 dB</td><td>52.44 dB</td></tr></table>	Det. Alloc.	NoRB	6 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2	ACLR			52.43 dB	47.11 dB	44.26 dB	21.84 dBm	44.58 dB	47.74 dB	52.42 dB	Average			52.61 dB	47.24 dB	44.15 dB	22.00 dBm	44.72 dB	47.32 dB	52.44 dB
Det. Alloc.	NoRB	6 Offsets	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2																						
ACLR			52.43 dB	47.11 dB	44.26 dB	21.84 dBm	44.58 dB	47.74 dB	52.42 dB																						
Average			52.61 dB	47.24 dB	44.15 dB	22.00 dBm	44.72 dB	47.32 dB	52.44 dB																						
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0																															

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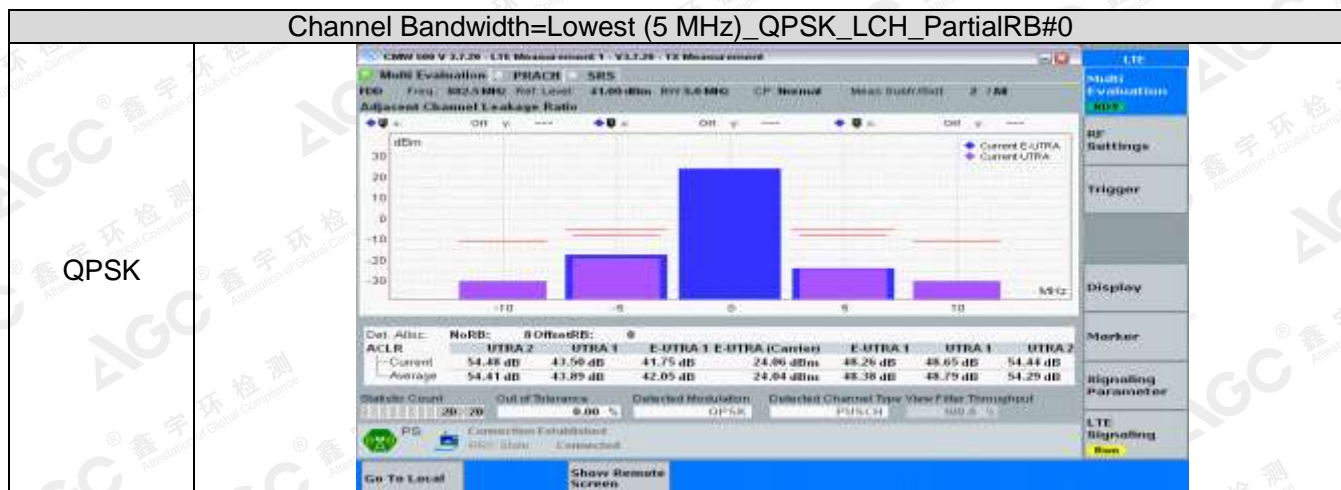
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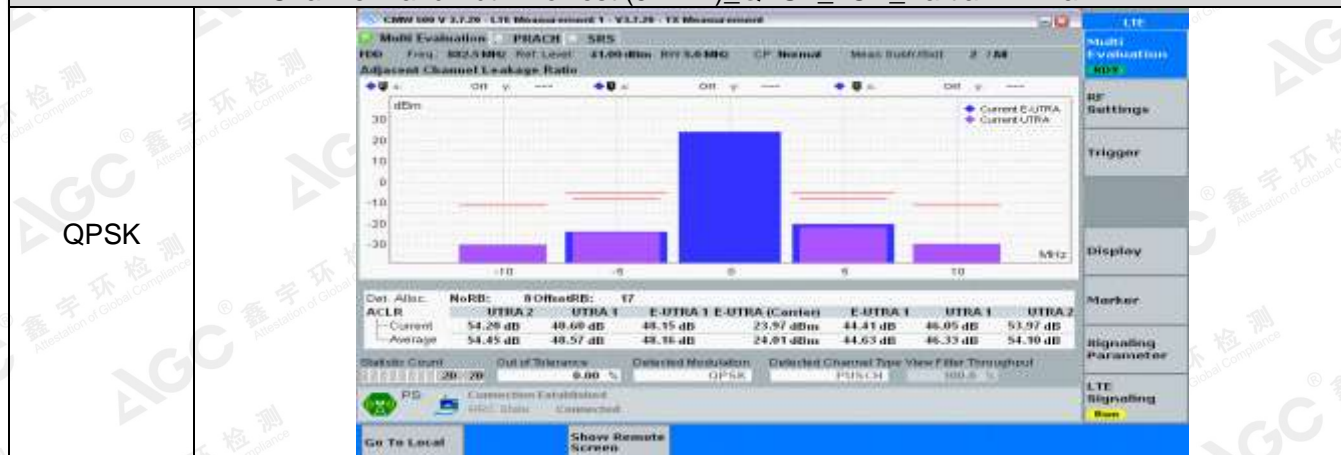
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Channel Bandwidth= (5 MHz)

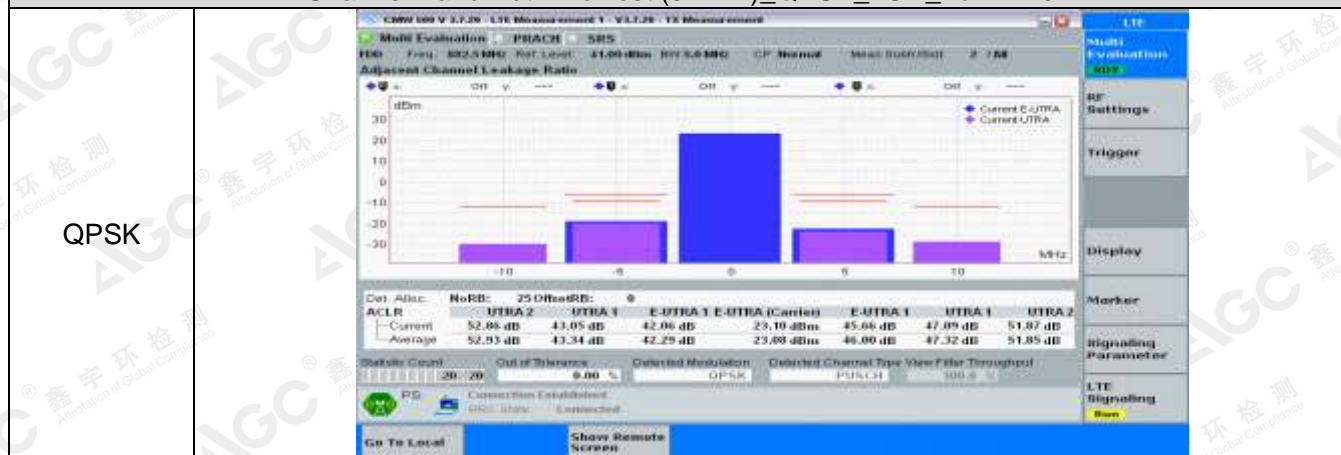
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

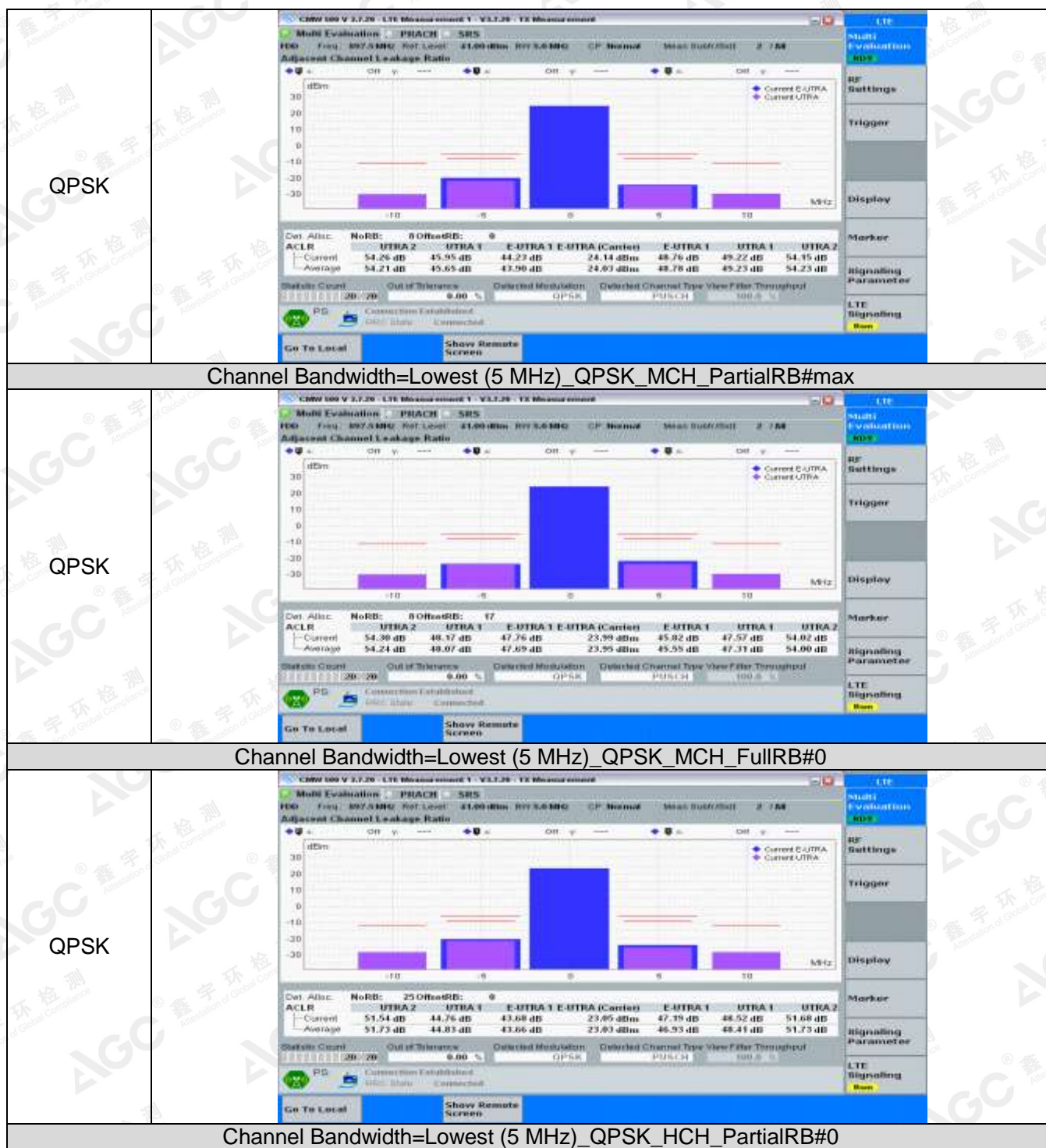


Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0



Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0

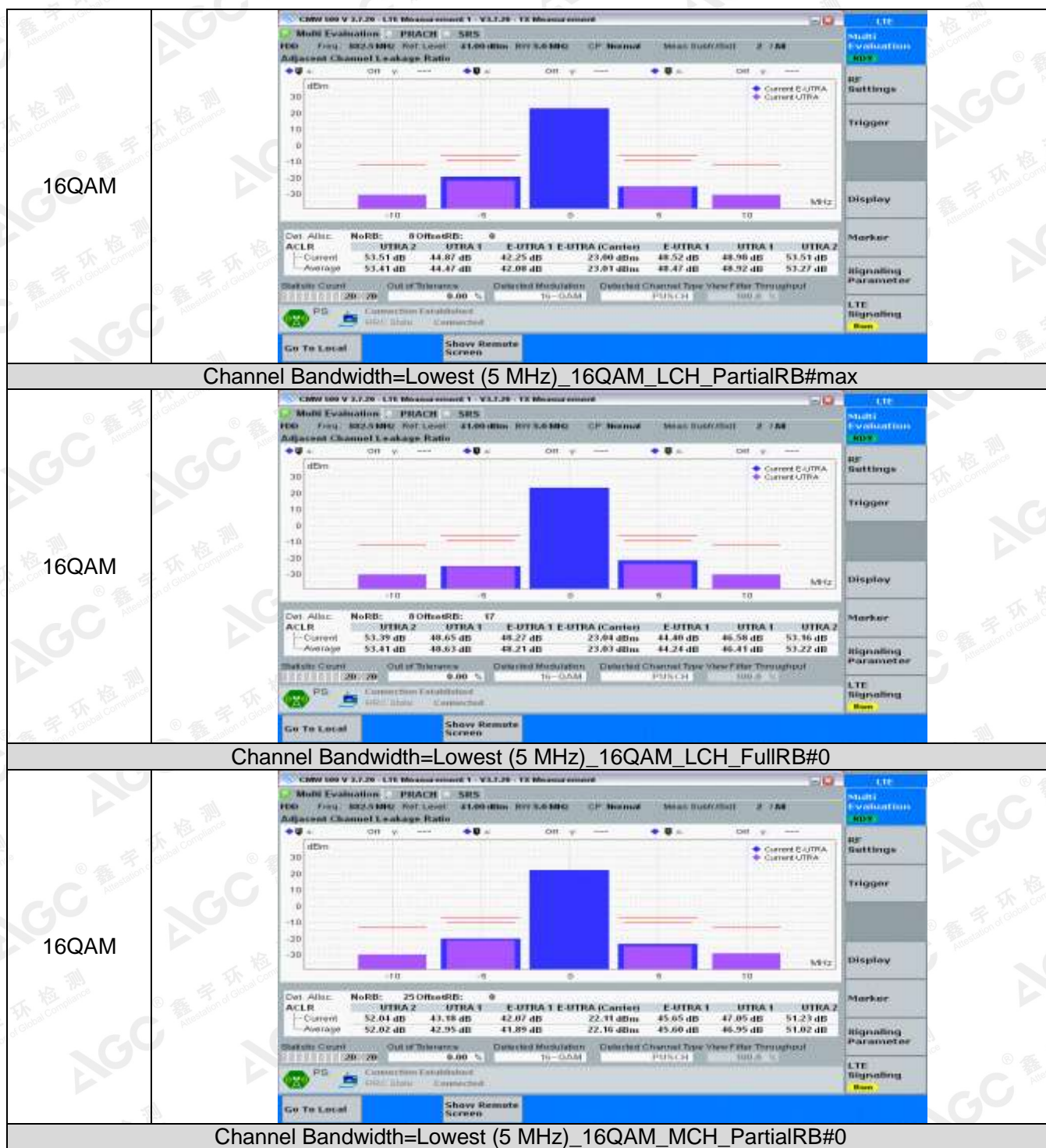
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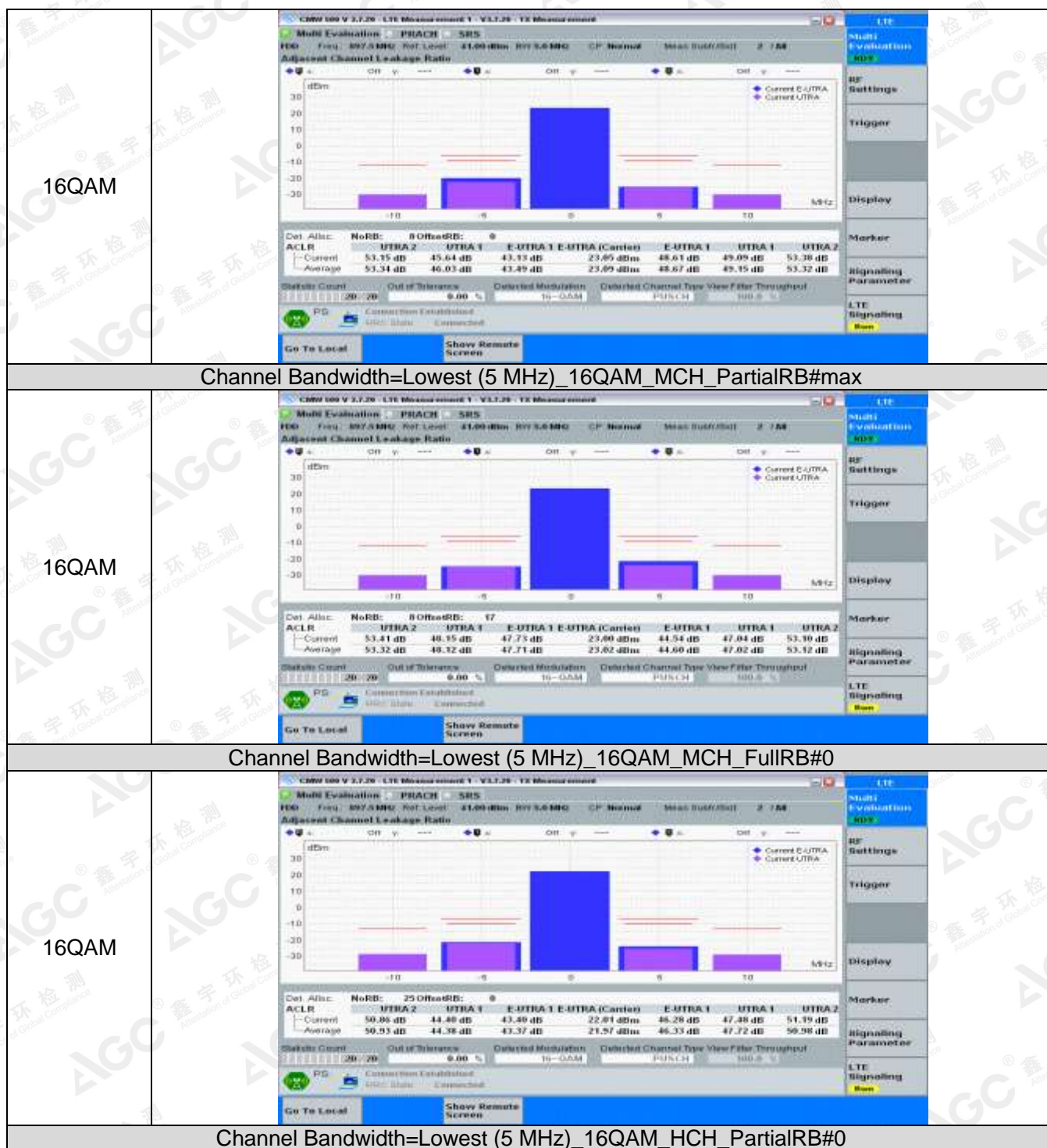
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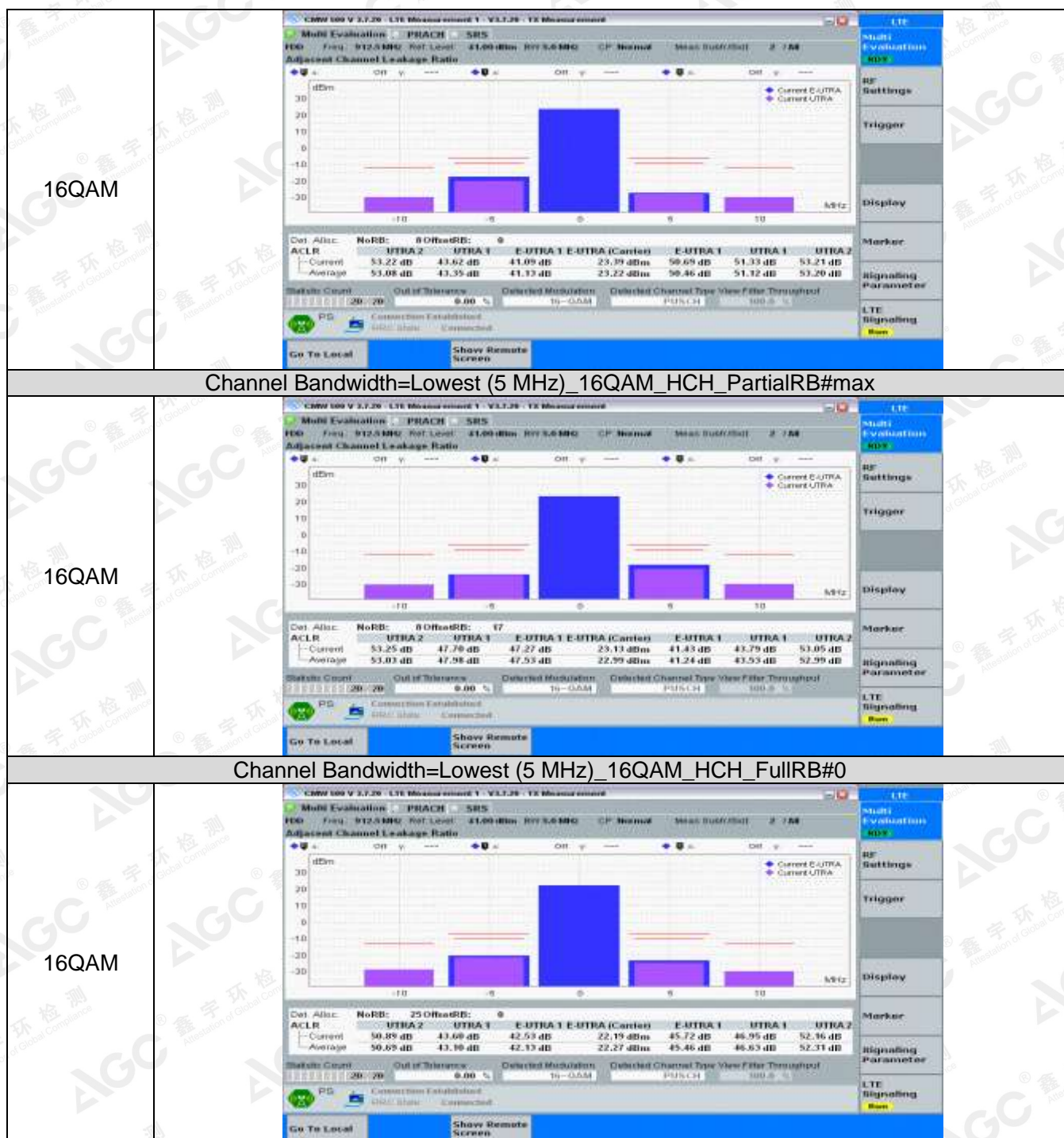
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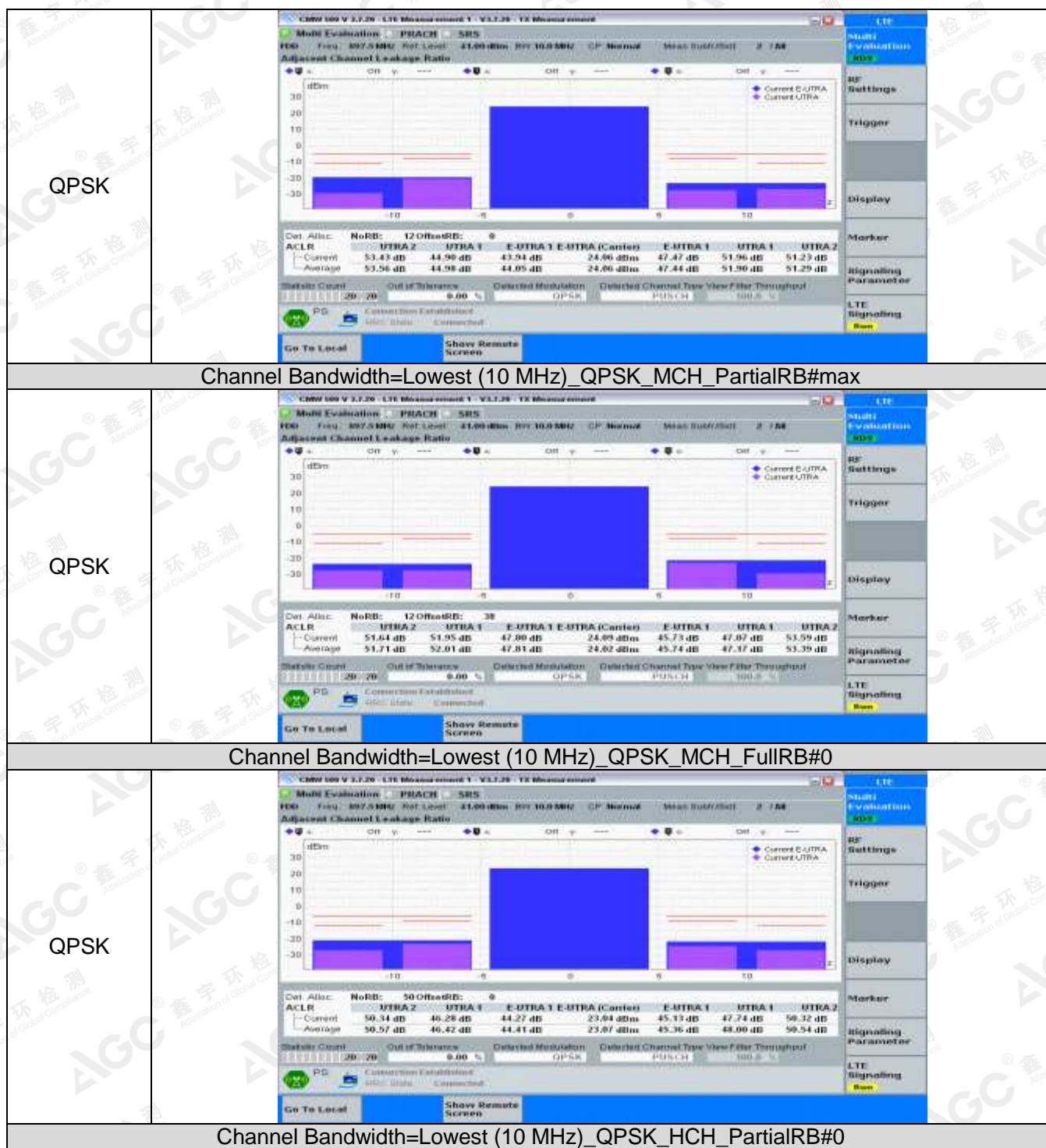
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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>

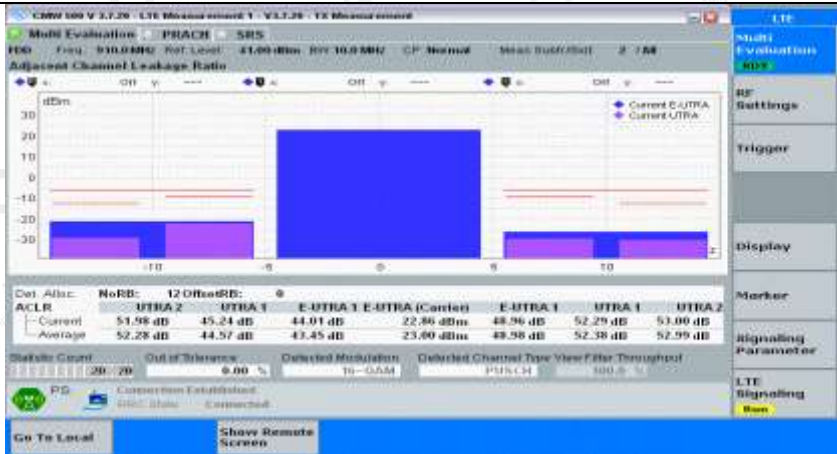
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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass

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			Full	0	PUMAX	Pass
		Mid range	1	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	1	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass


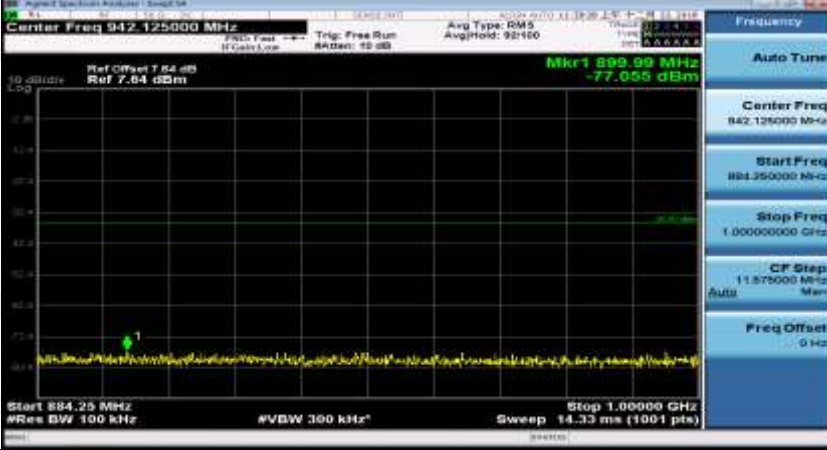
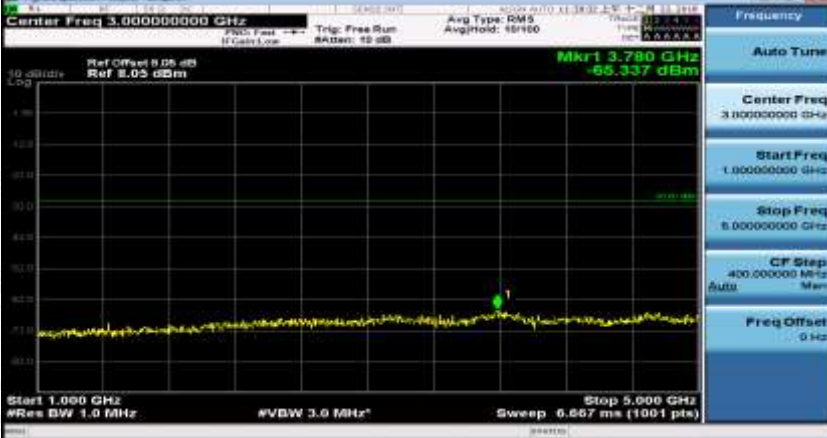
Test Graphs

NTNV

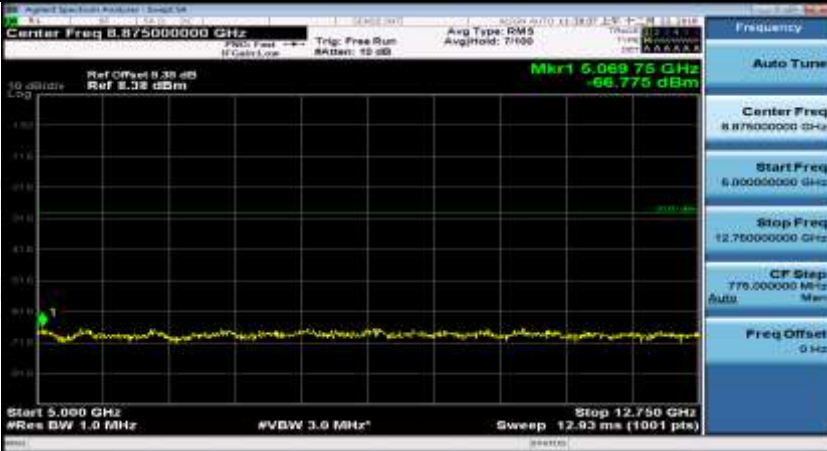
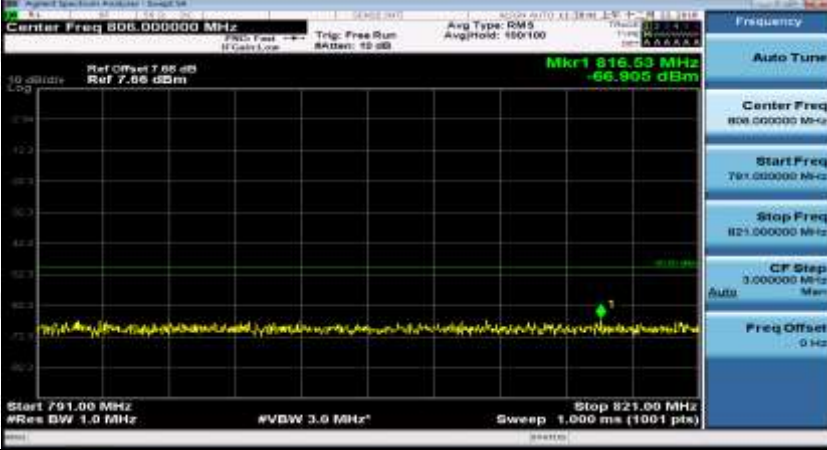
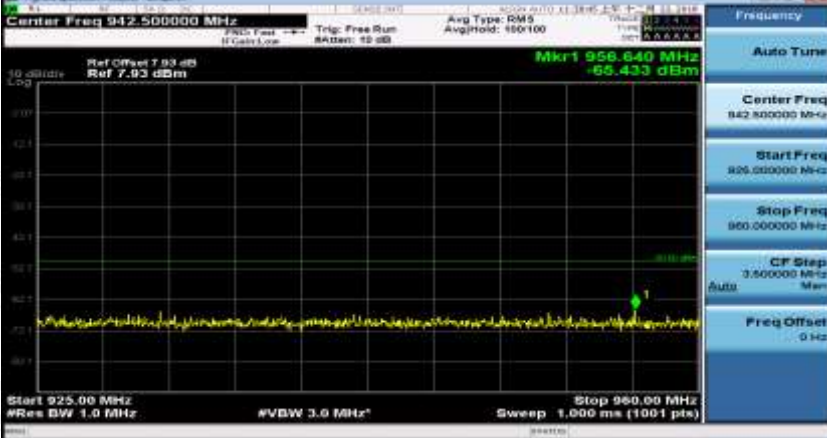
Channel Bandwidth=Lowest (1.4 MHz)



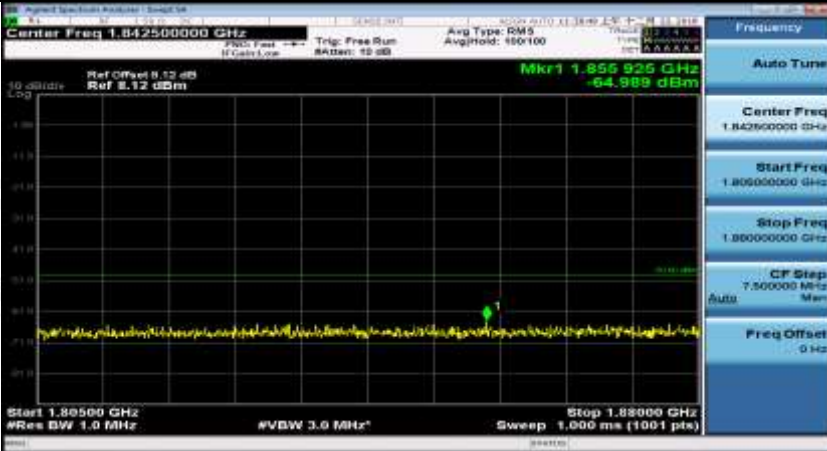
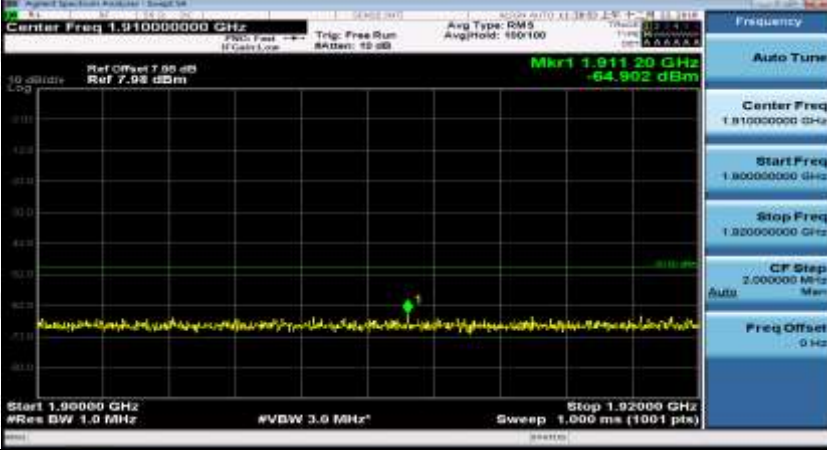
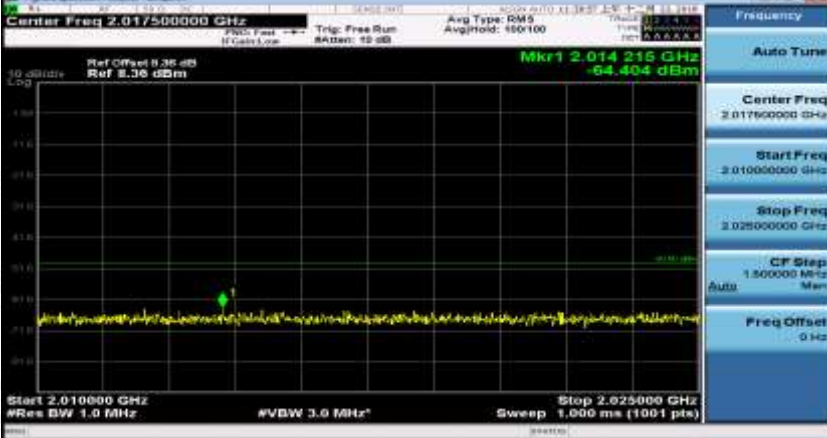
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General	
General	
General	

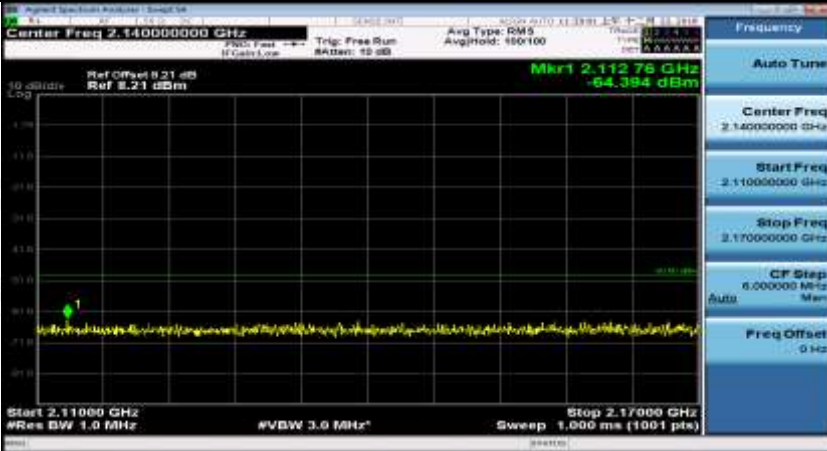
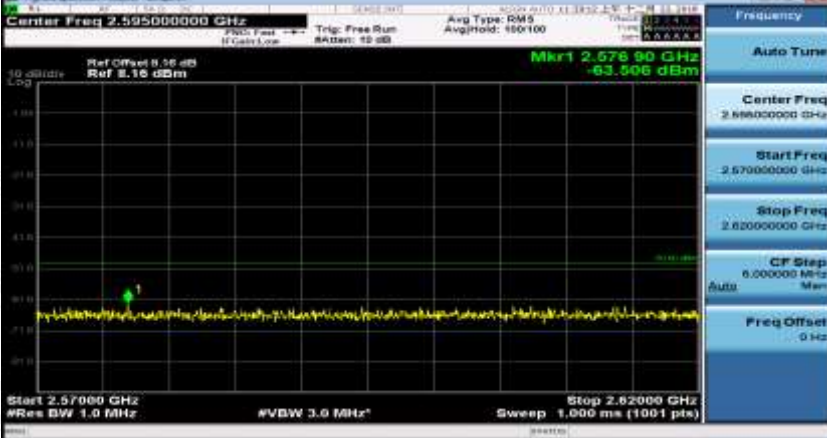
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General	
Co-existence	
Co-existence	

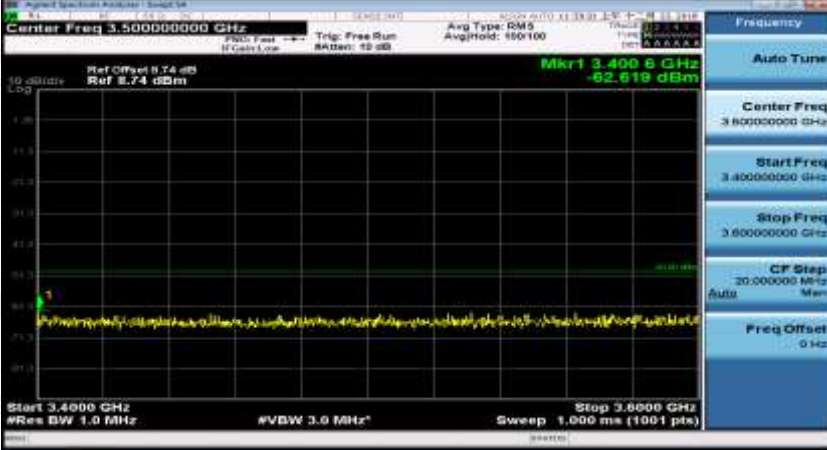
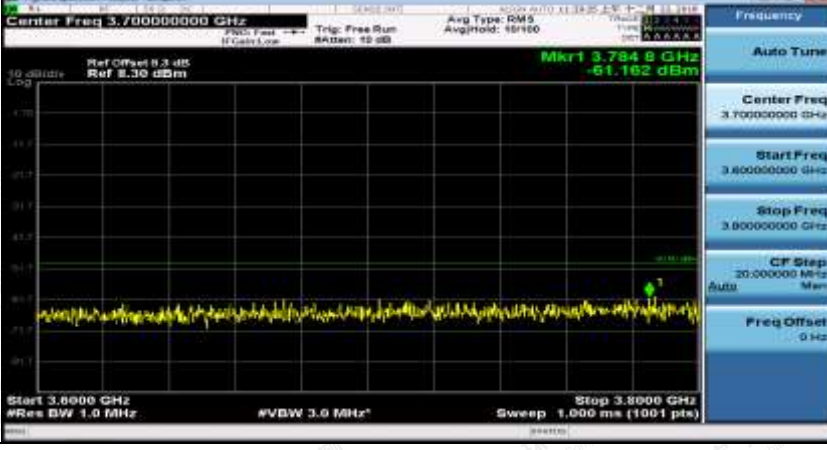
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Co-existence	
Co-existence	
Co-existence	

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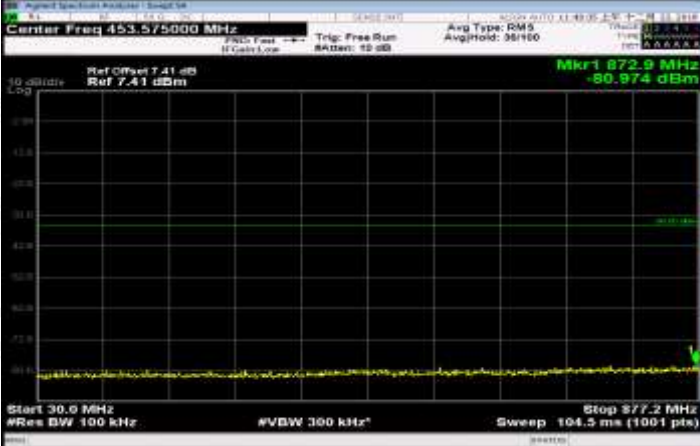
Co-existence	
Co-existence	
Co-existence	

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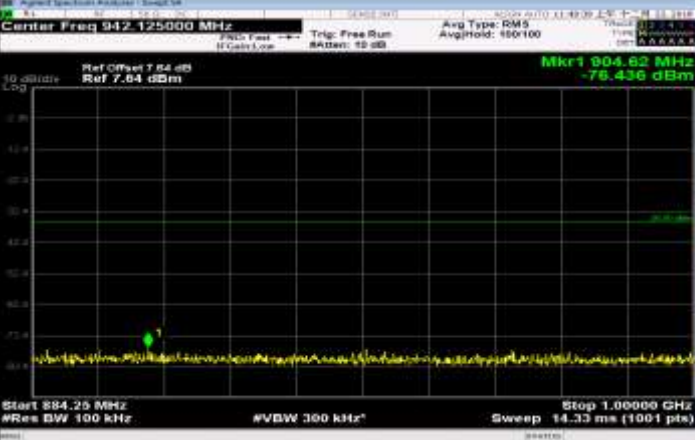
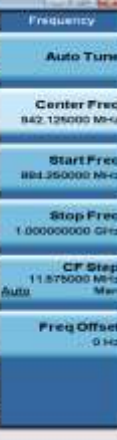

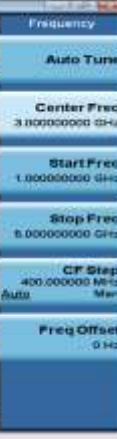

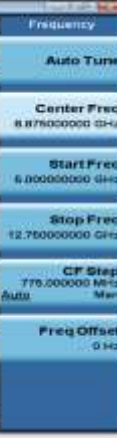
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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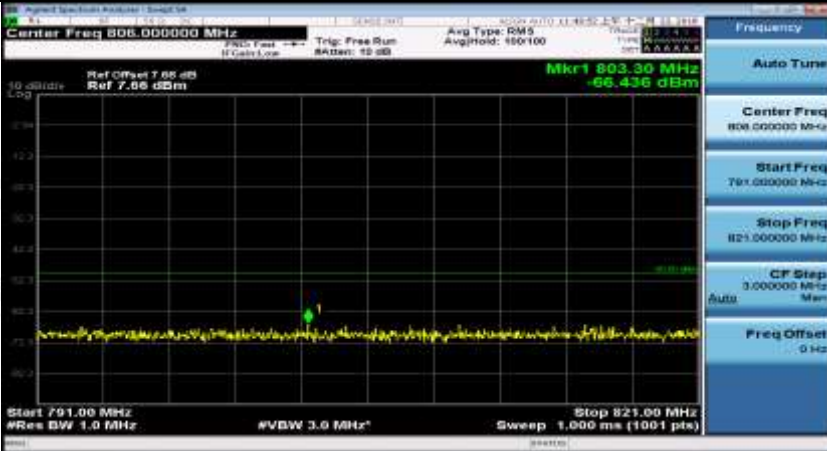
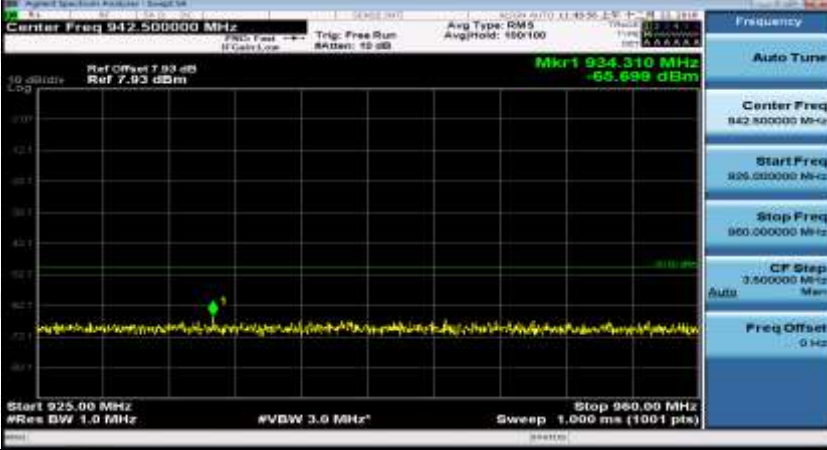
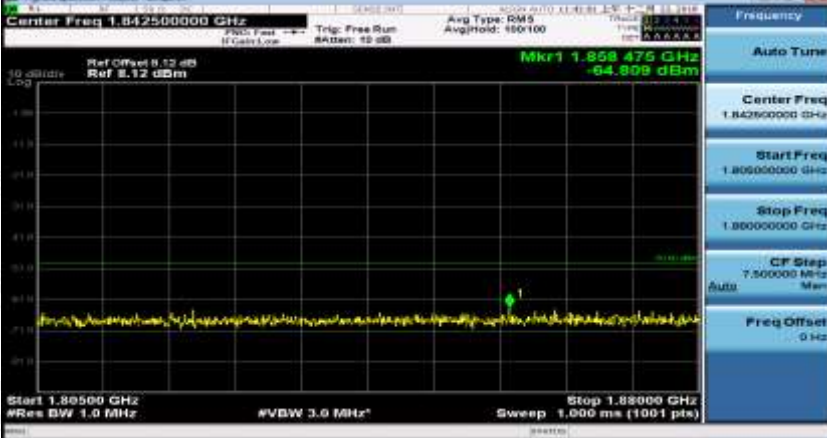
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_1RB#max

General	
General	
General	

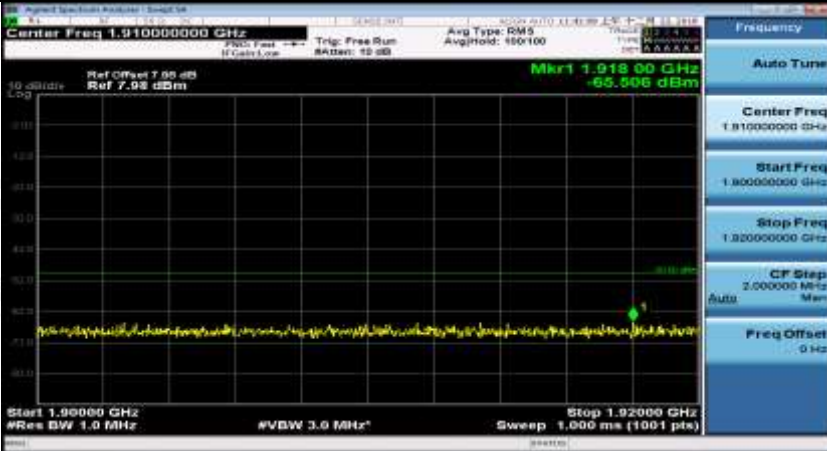
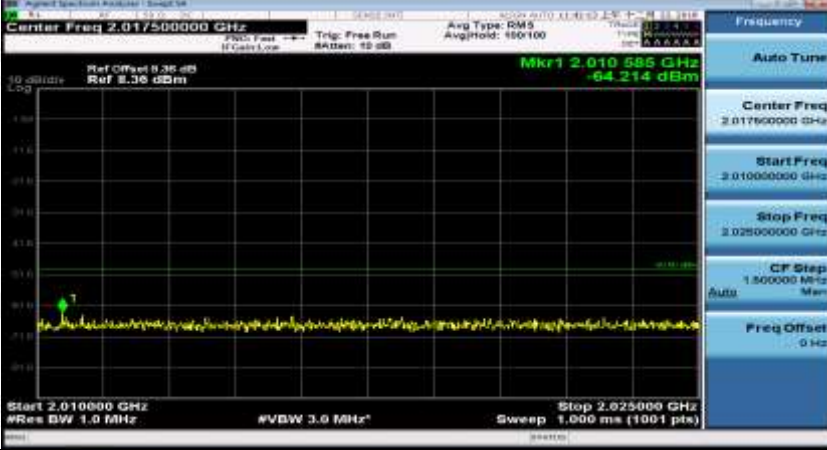
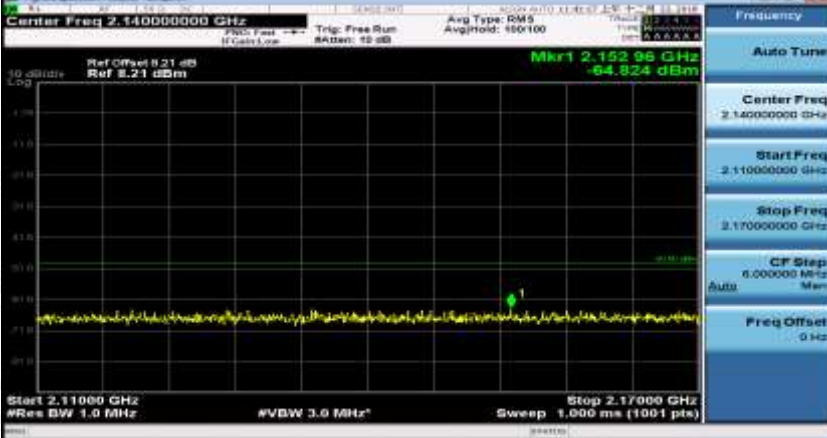
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General			
General			
General			

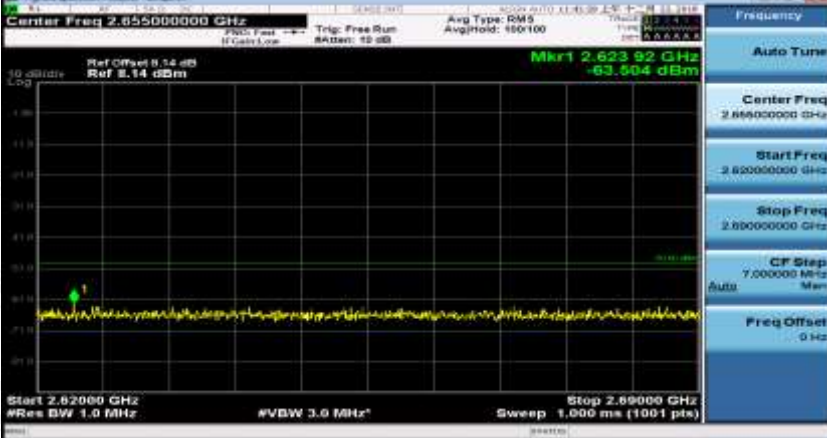
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Co-existence	
Co-existence	
Co-existence	

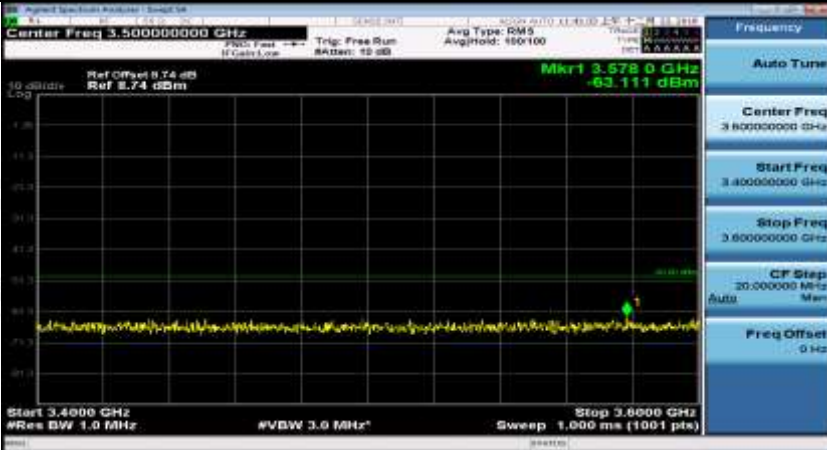
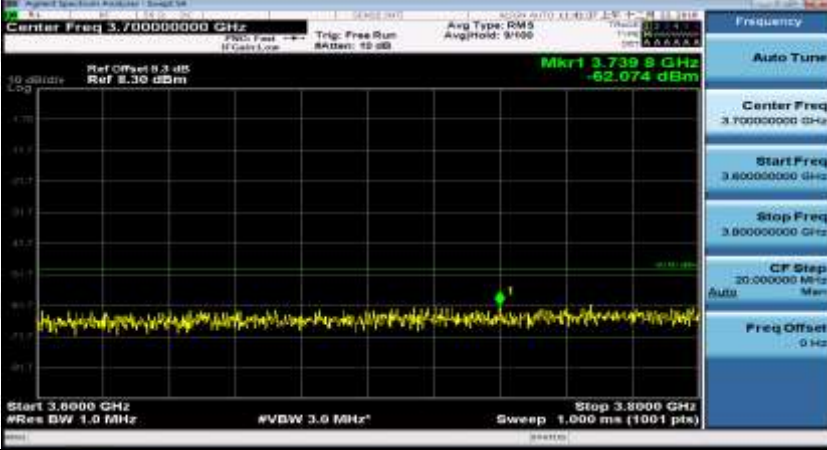
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Co-existence	
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Co-existence	

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Co-existence	
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Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullIRB#0	
General	


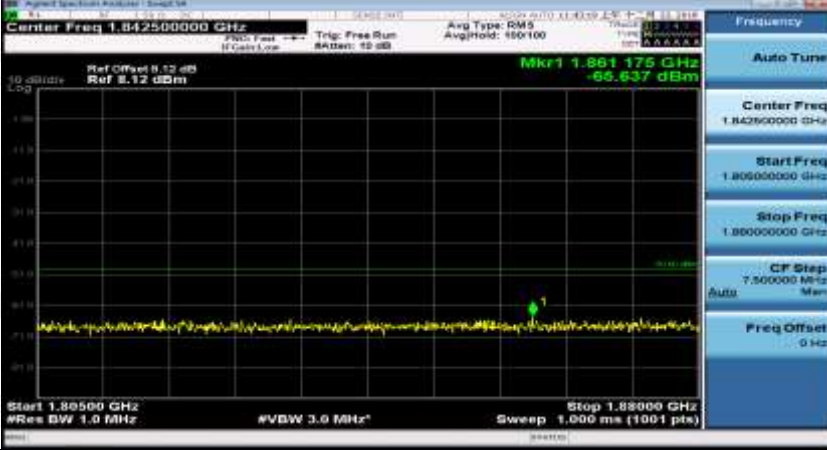
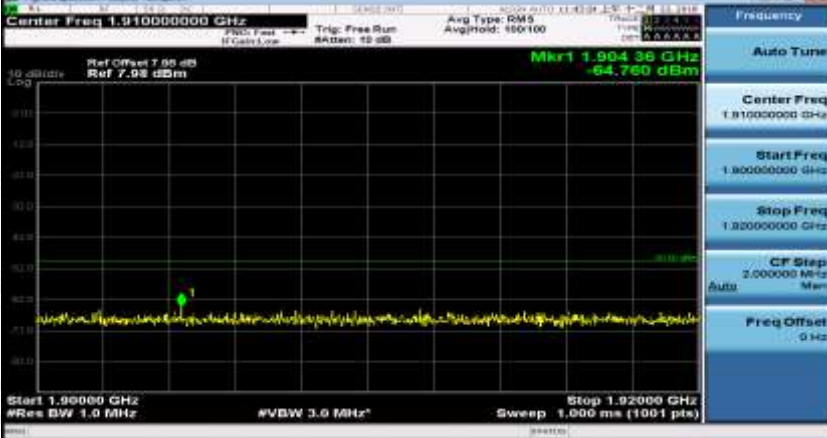
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General			
General			
General			

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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.00000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 781.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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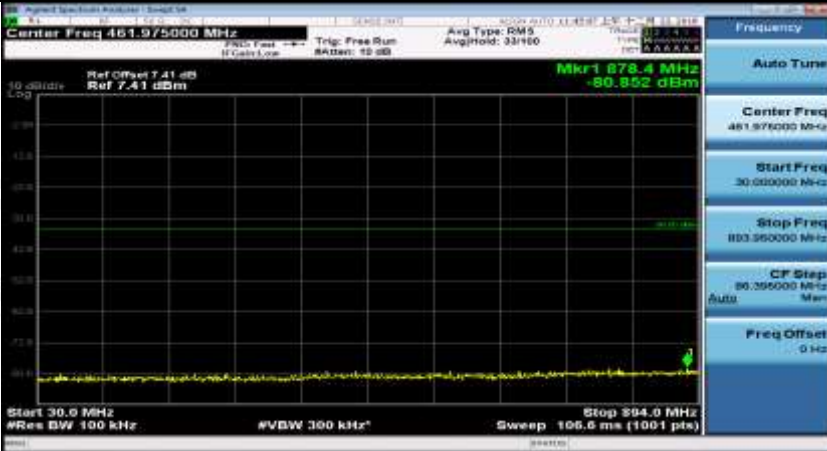
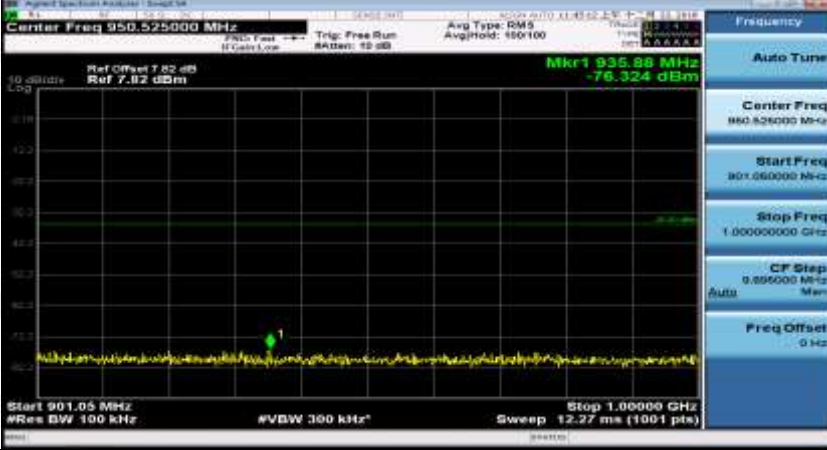
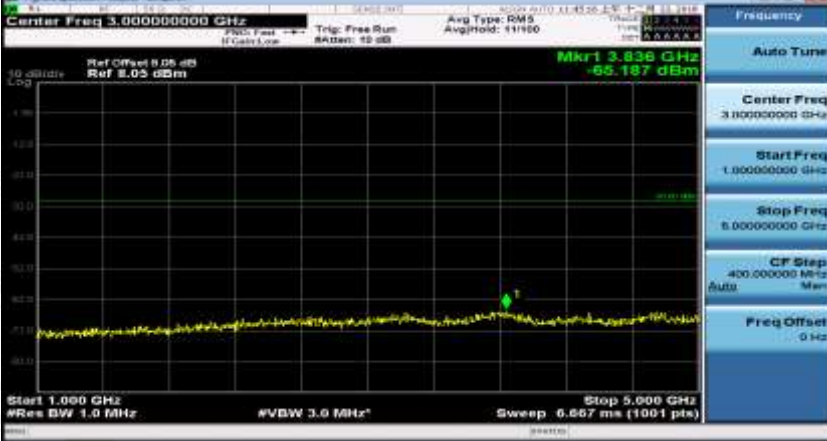
Co-existence	
Co-existence	
Co-existence	

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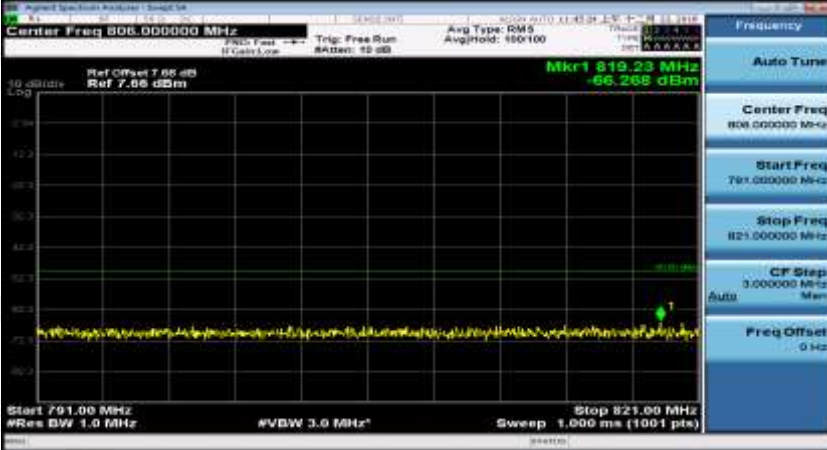
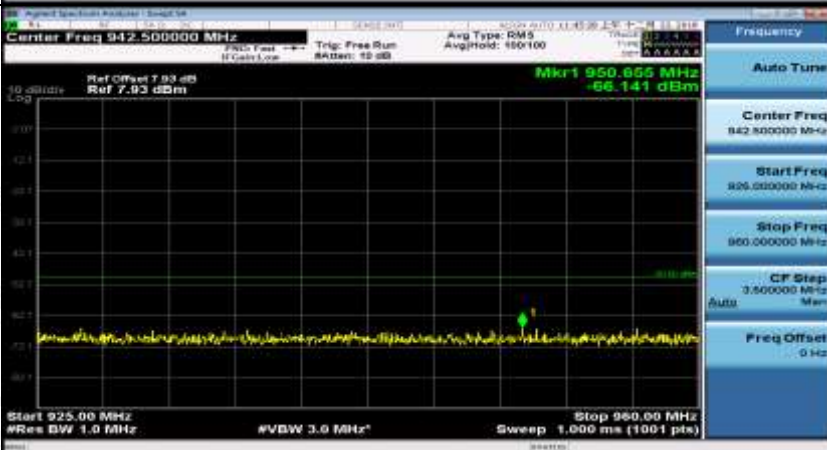
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#0	
General	
General	


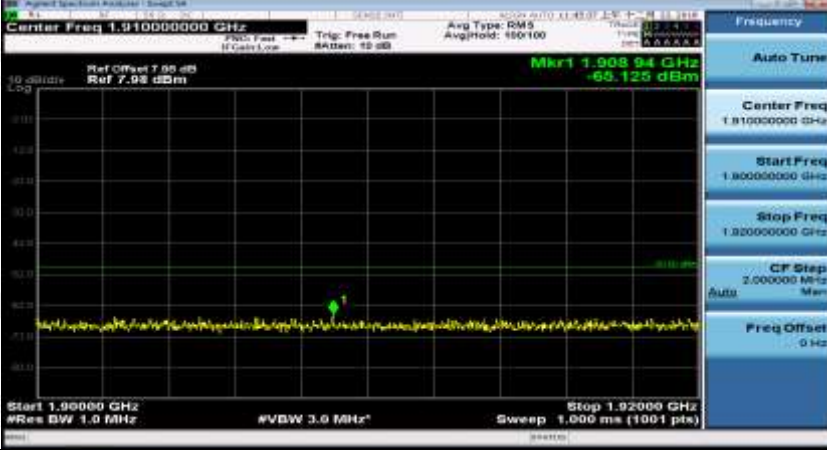

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General	
General	
General	

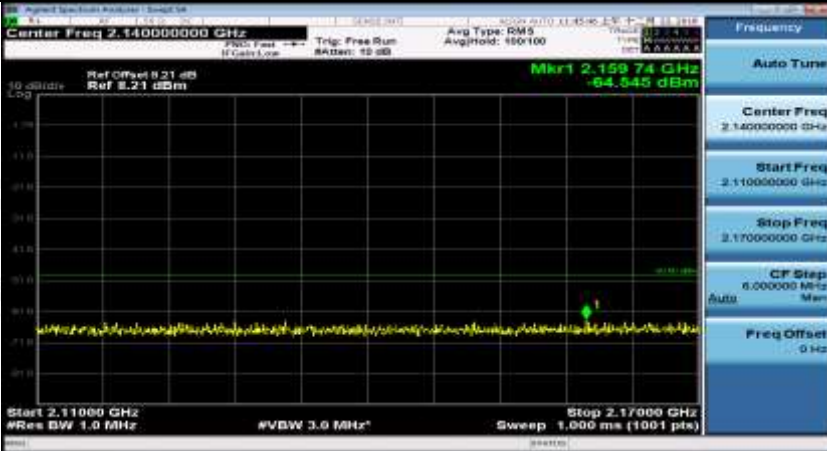
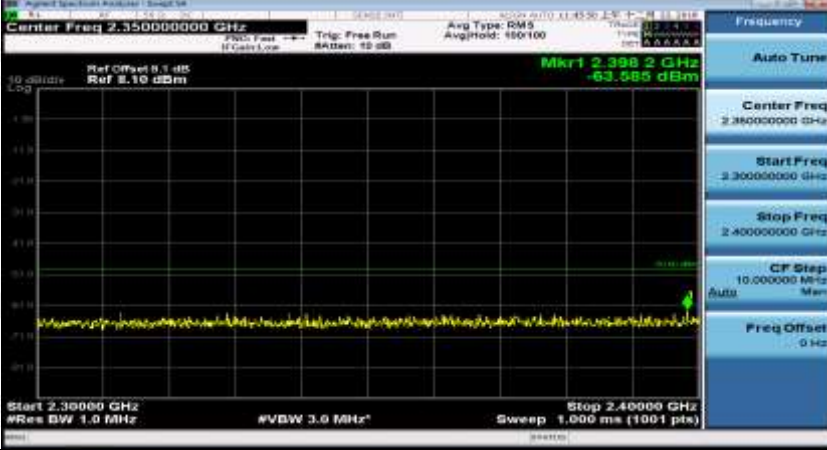
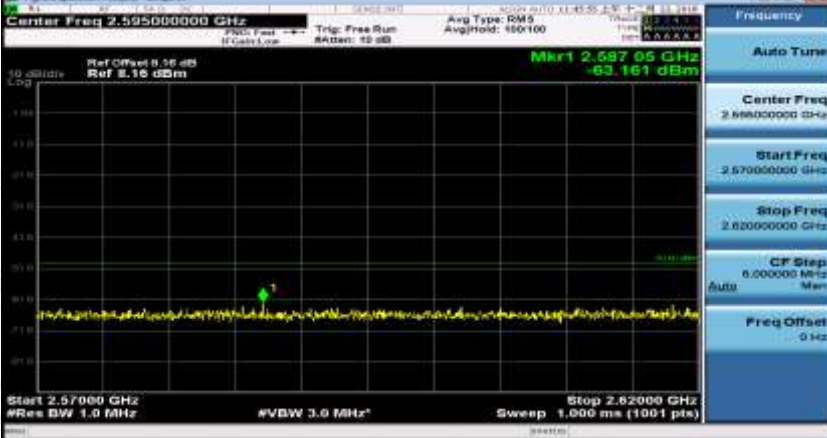
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General	
Co-existence	
Co-existence	

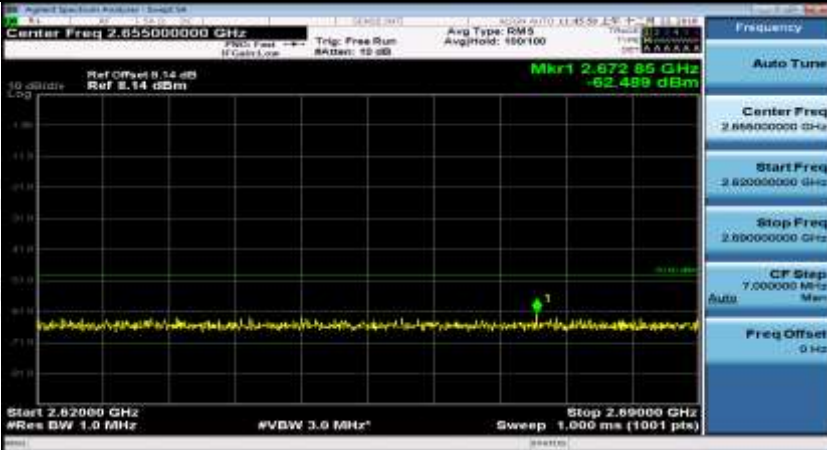
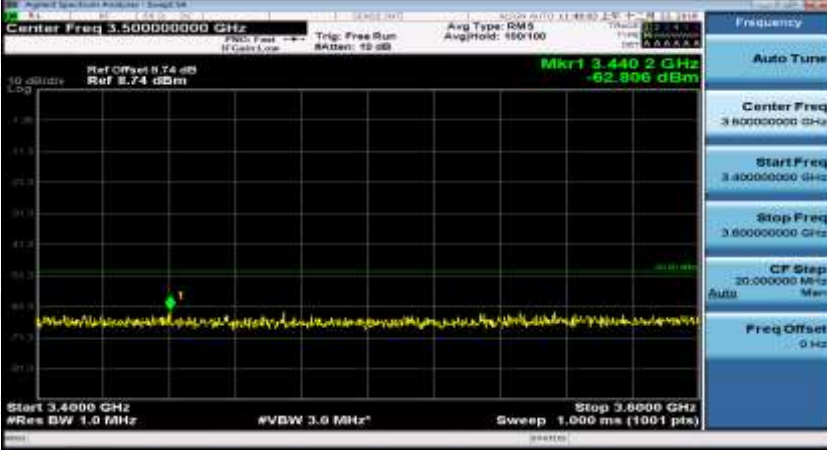
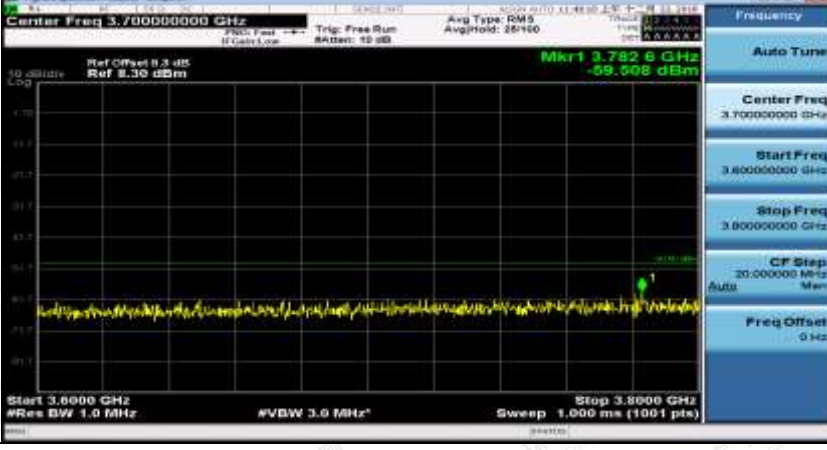
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Co-existence	
Co-existence	
Co-existence	

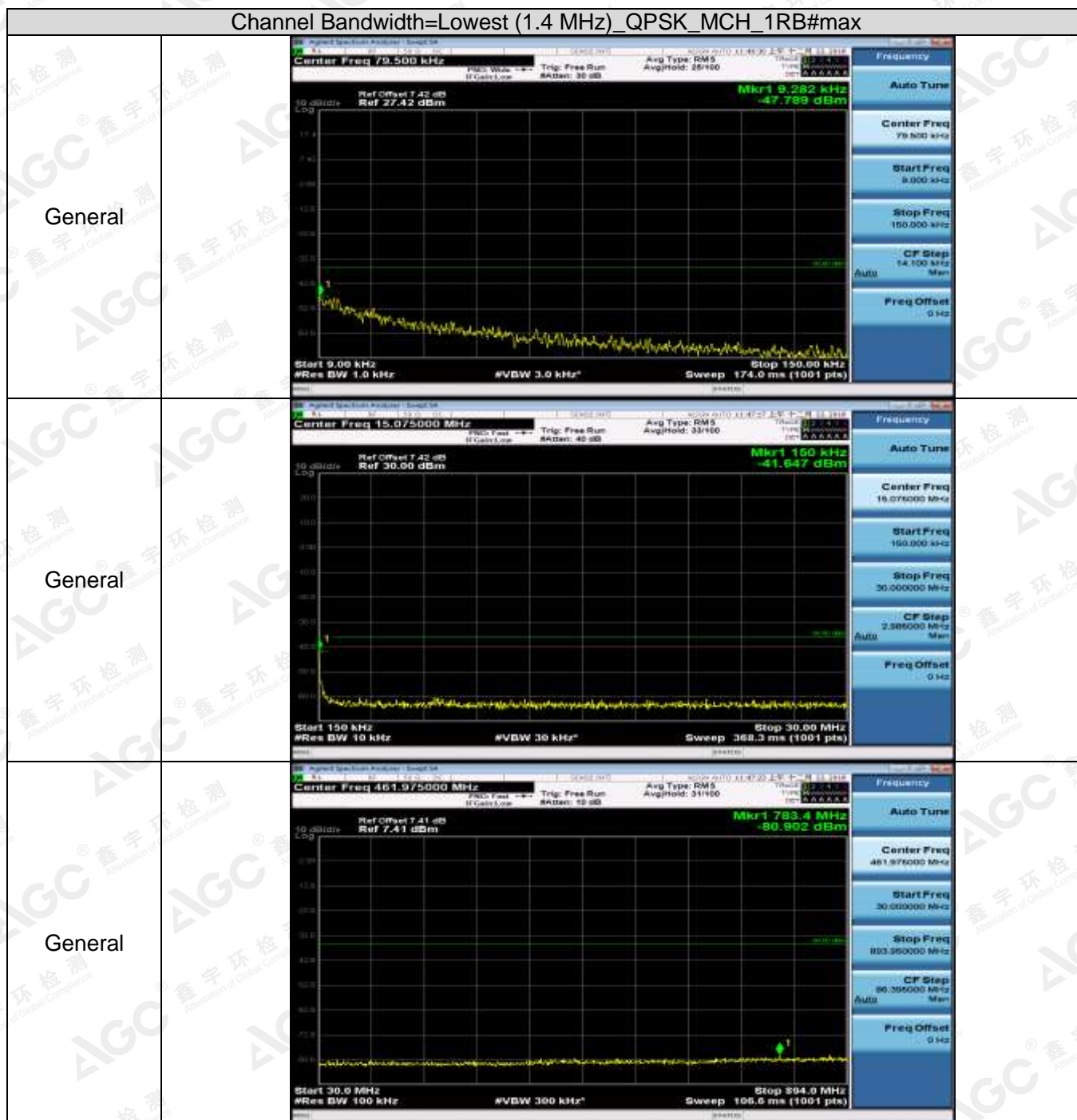
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

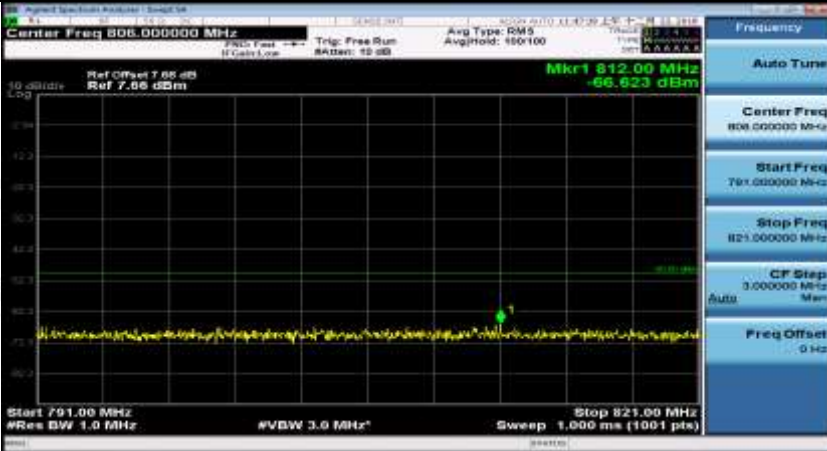
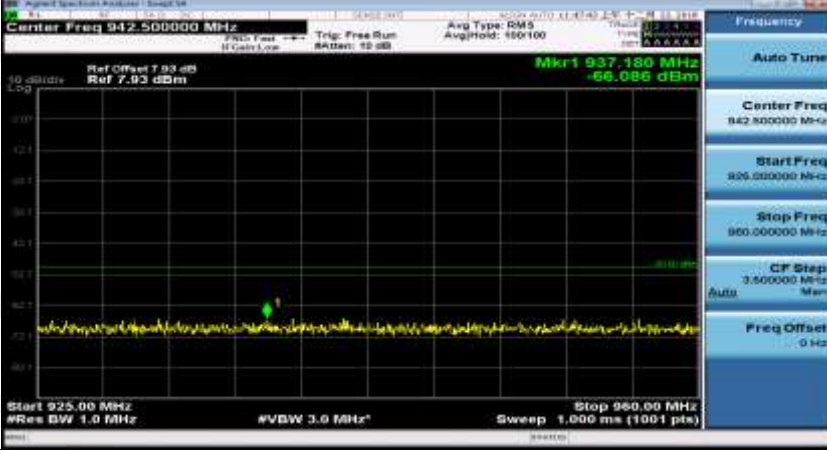
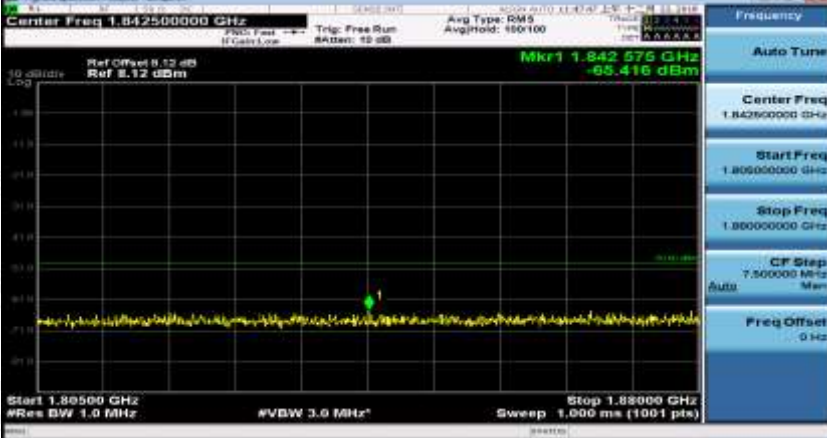
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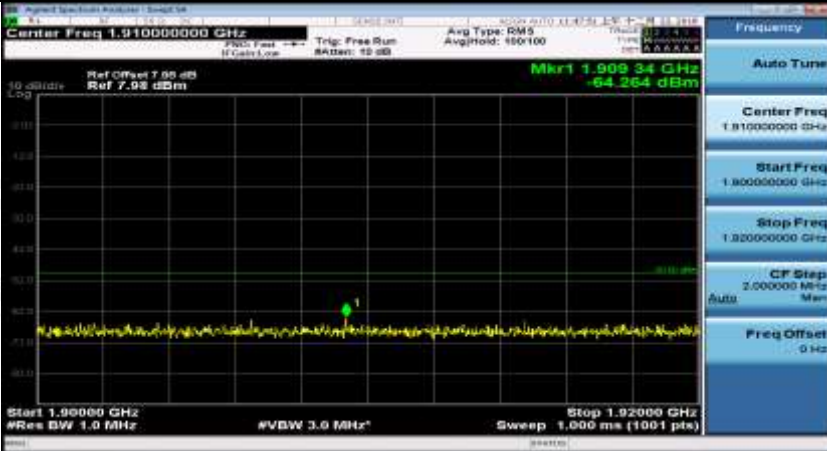
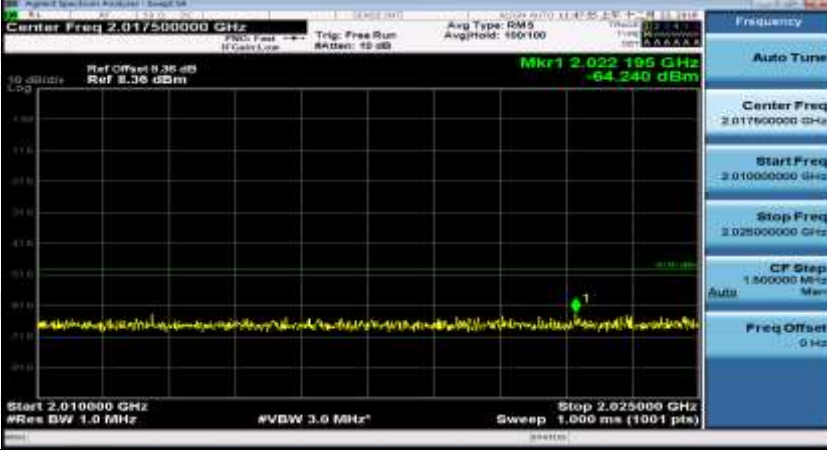
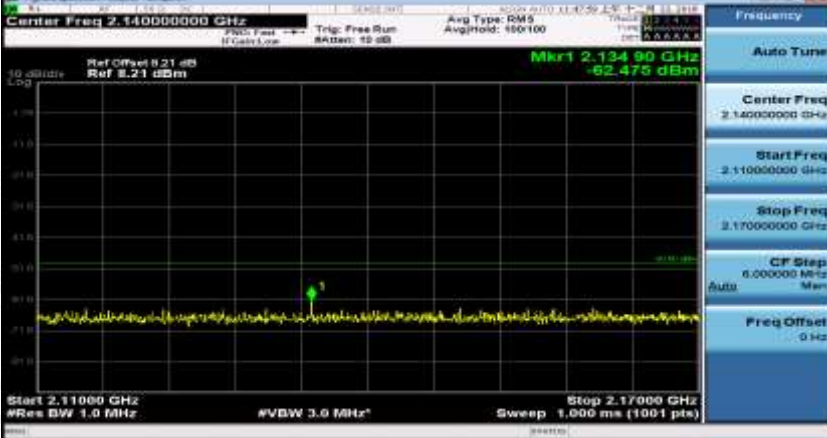
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 950.525000 MHz</p> <p>Start Freq 901.050000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 9.995000 MHz Auto</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.000000000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 400.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 775.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p>

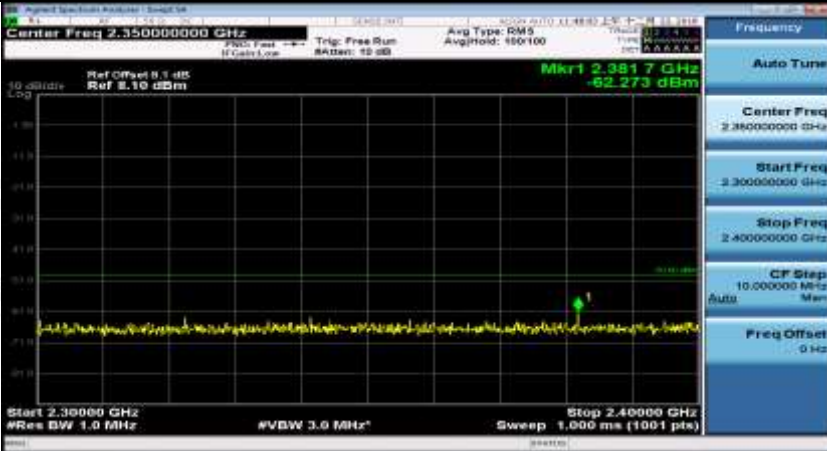
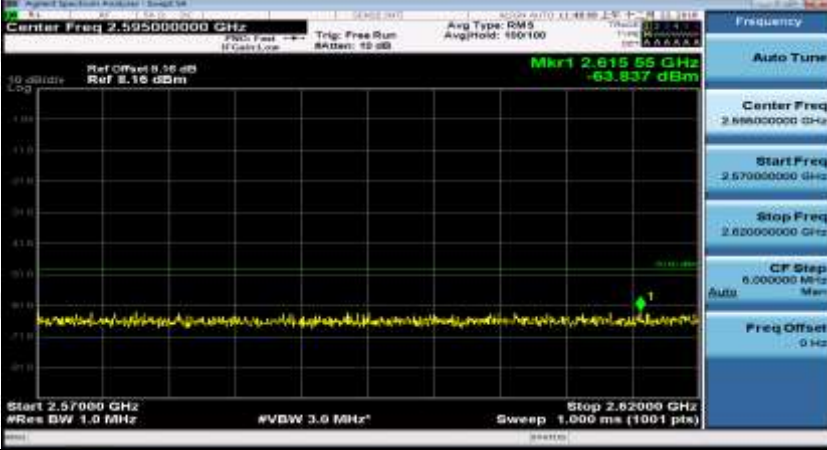
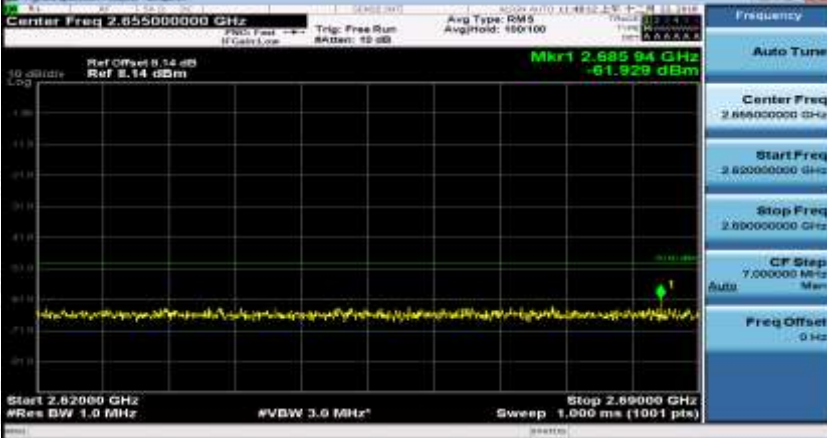
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Co-existence	
Co-existence	
Co-existence	

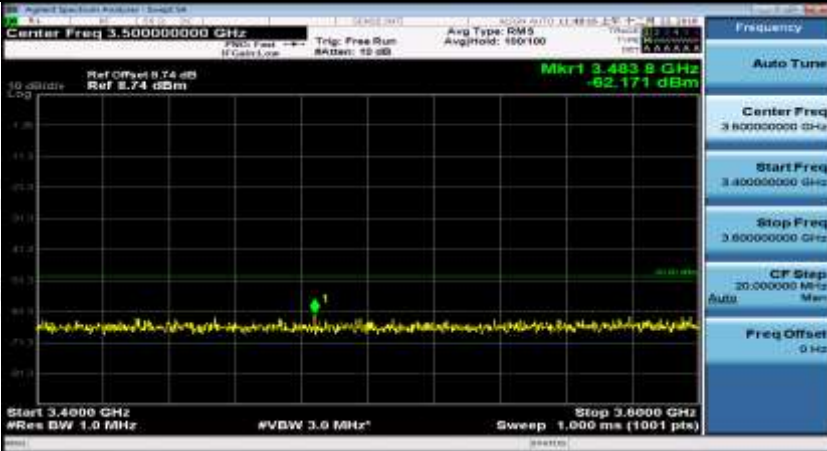
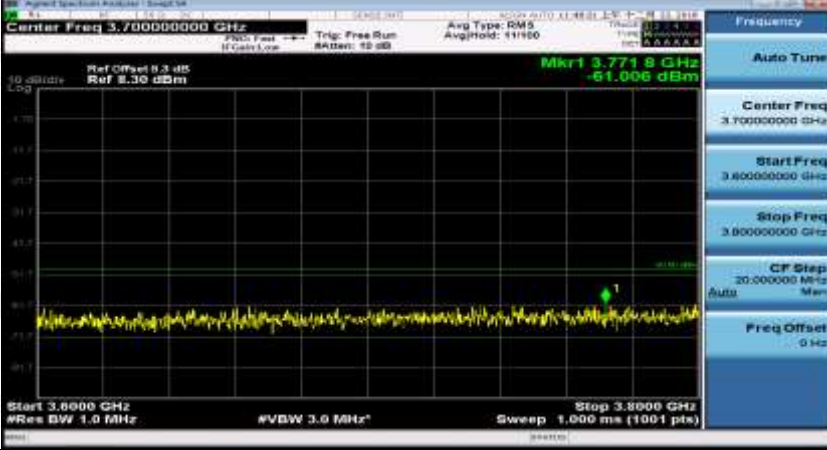
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Co-existence	
Co-existence	
Co-existence	

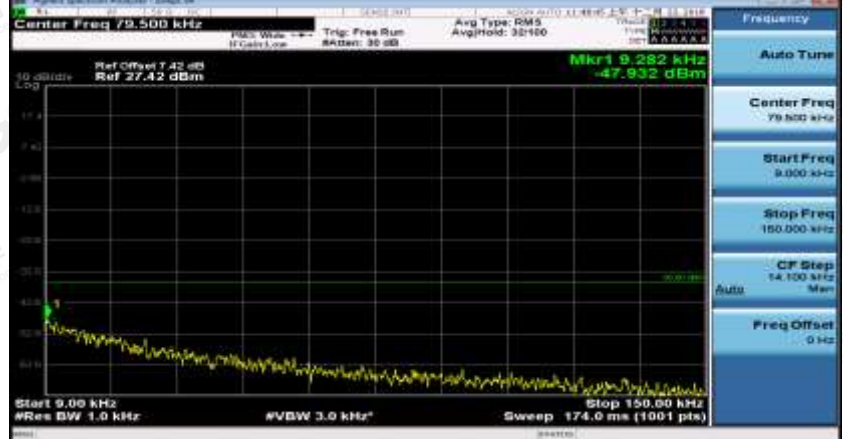
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Co-existence	
Co-existence	
Co-existence	


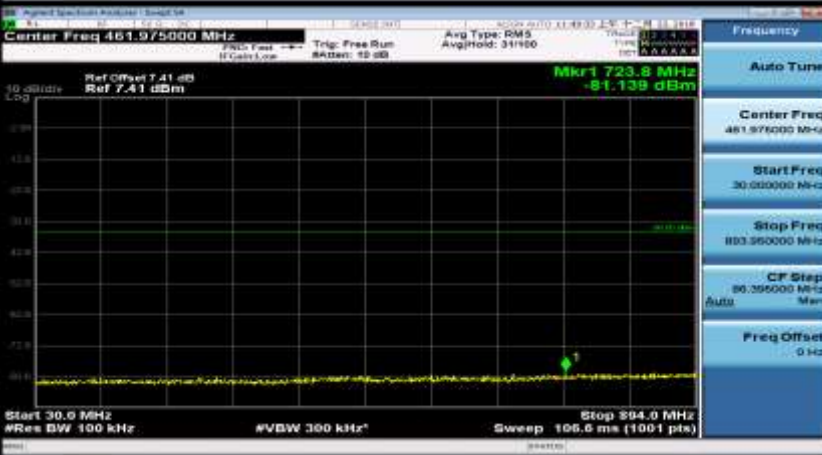

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Co-existence	
Co-existence	
Additional	NA

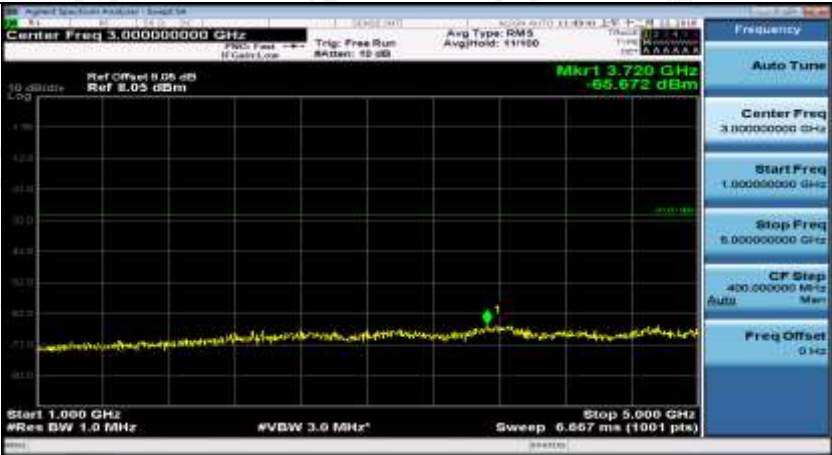
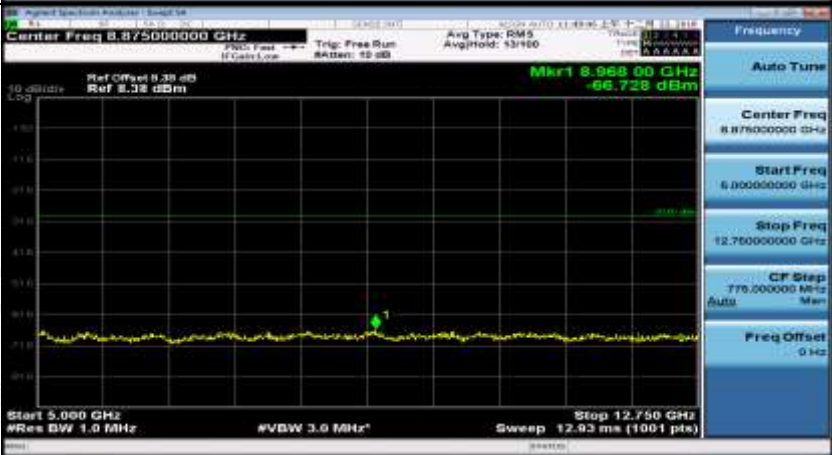

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0

General	
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General		
General		
General		

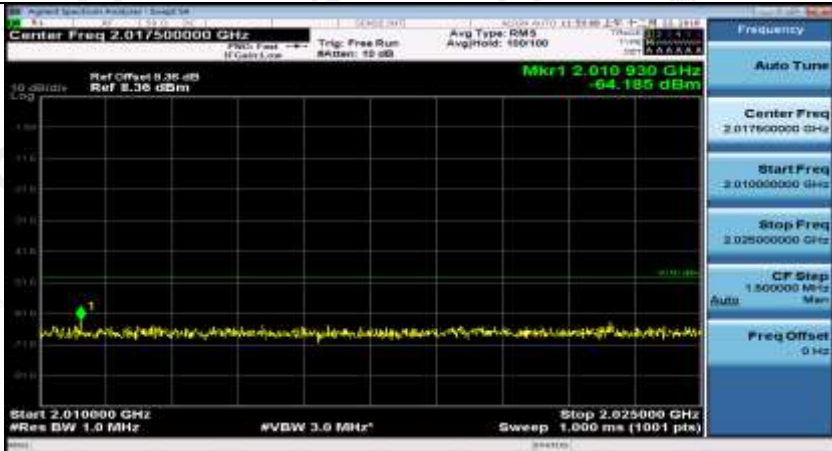
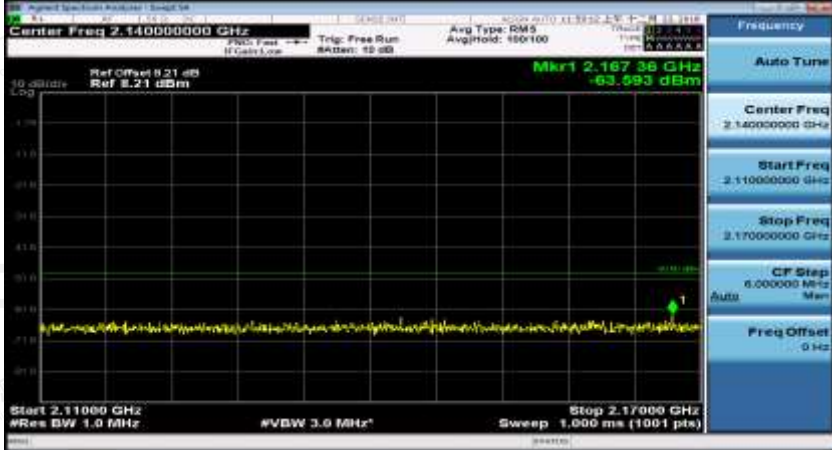

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General		
General		
Co-existence		

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Co-existence	
Co-existence	
Co-existence	

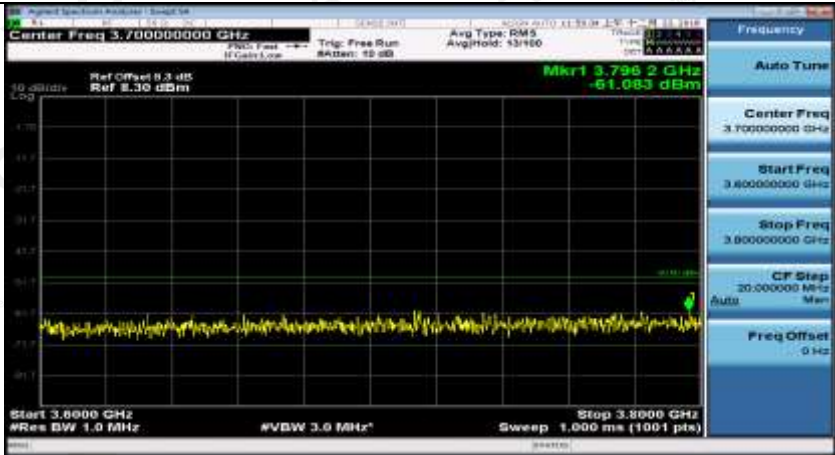
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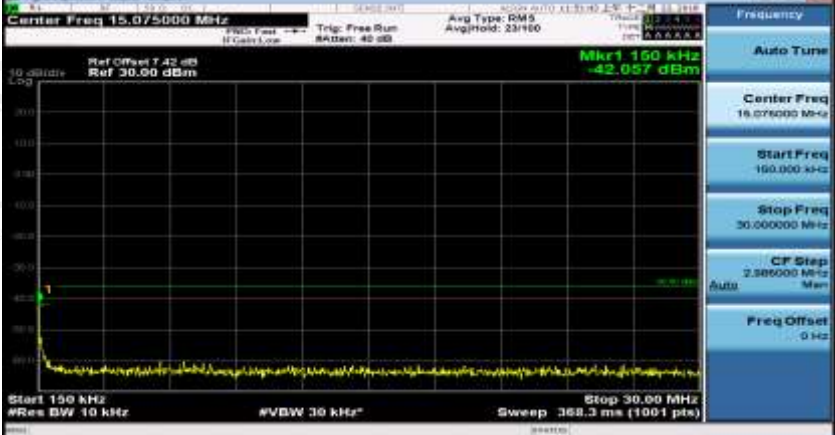
Co-existence	
Co-existence	
Co-existence	

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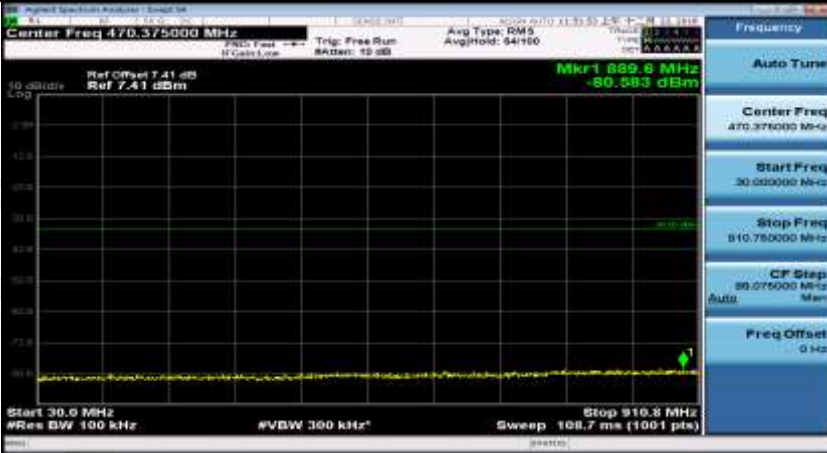


Co-existence	 <p>Agilent Spectrum Analyzer Screenshot 1</p> <p>Center Freq 2.595000000 GHz</p> <p>Ref Offset 0.16 dB</p> <p>Ref 0.16 dBm</p> <p>Mkr1 2.59760 GHz</p> <p>-63.308 dBm</p> <p>Start 2.57000 GHz</p> <p>#Res BW 1.0 MHz</p> <p>#VBW 3.0 MHz</p> <p>Sweep 1.000 ms (1001 pts)</p> <p>Stop 2.62000 GHz</p>
Co-existence	 <p>Agilent Spectrum Analyzer Screenshot 2</p> <p>Center Freq 2.655000000 GHz</p> <p>Ref Offset 0.14 dB</p> <p>Ref 0.14 dBm</p> <p>Mkr1 2.63608 GHz</p> <p>-63.581 dBm</p> <p>Start 2.62000 GHz</p> <p>#Res BW 1.0 MHz</p> <p>#VBW 3.0 MHz</p> <p>Sweep 1.000 ms (1001 pts)</p> <p>Stop 2.69000 GHz</p>
Co-existence	 <p>Agilent Spectrum Analyzer Screenshot 3</p> <p>Center Freq 3.500000000 GHz</p> <p>Ref Offset 0.14 dB</p> <p>Ref 0.14 dBm</p> <p>Mkr1 3.5878 GHz</p> <p>-62.278 dBm</p> <p>Start 3.4000 GHz</p> <p>#Res BW 1.0 MHz</p> <p>#VBW 3.0 MHz</p> <p>Sweep 1.000 ms (1001 pts)</p> <p>Stop 3.6000 GHz</p>

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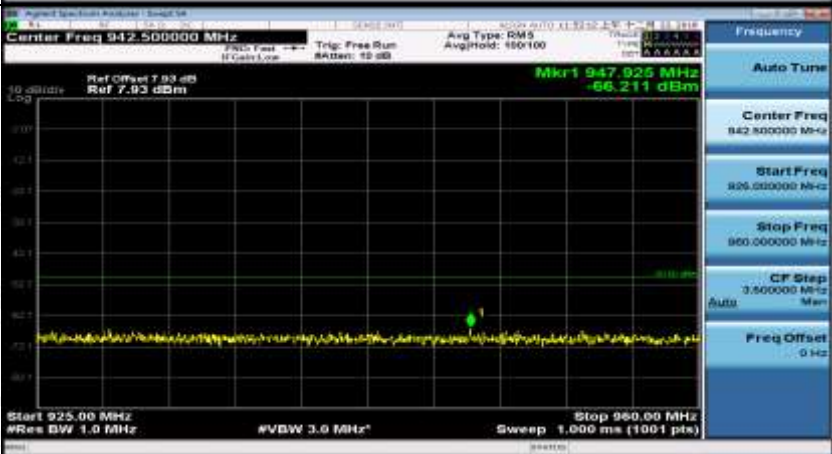
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#0	
General	
General	

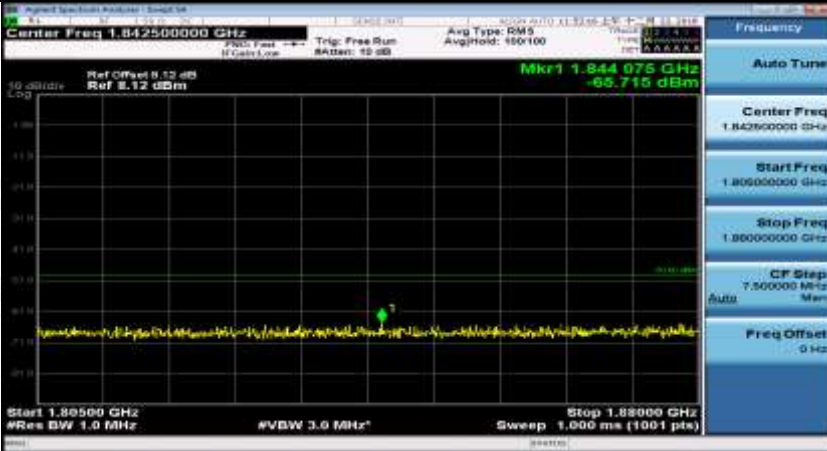
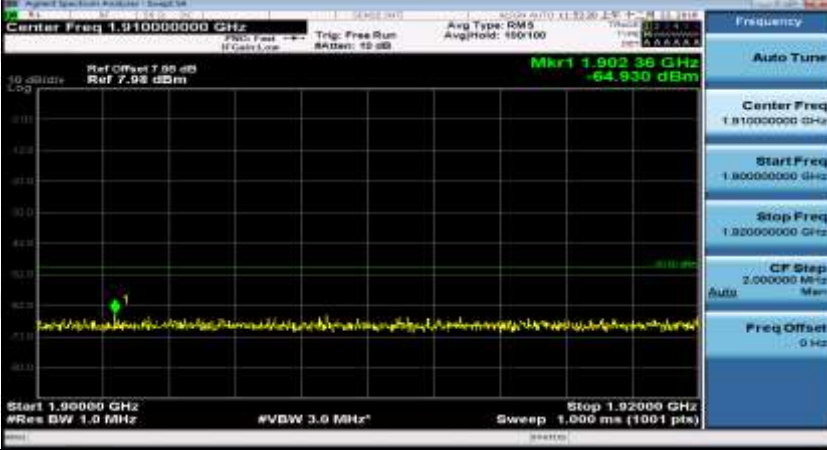
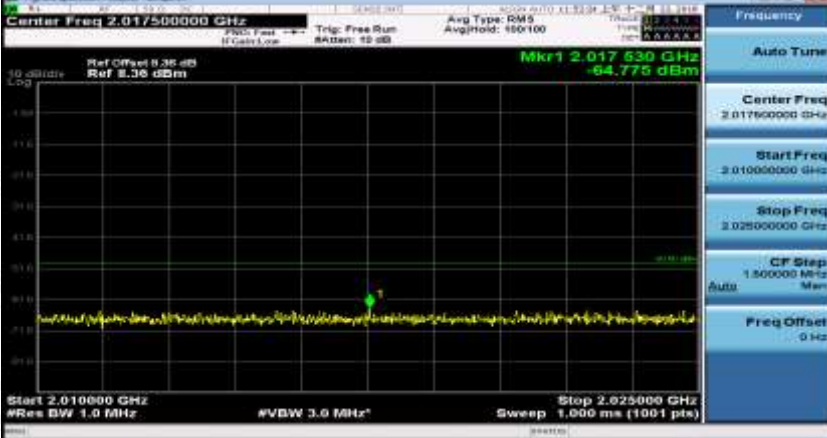
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General	
General	
General	

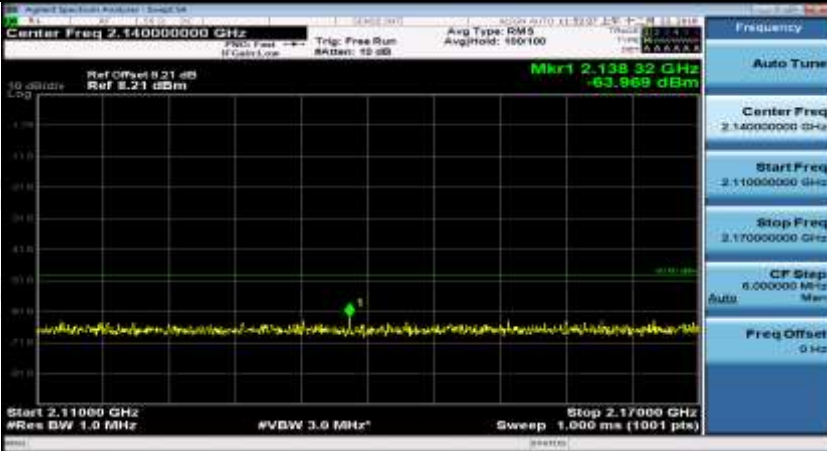
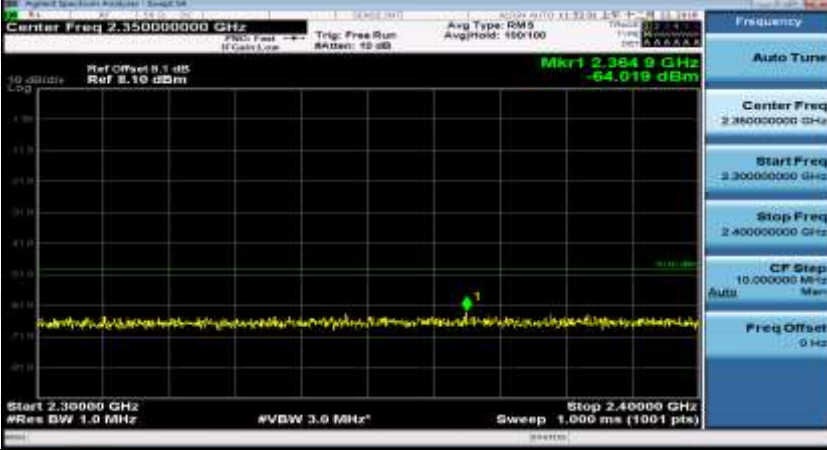
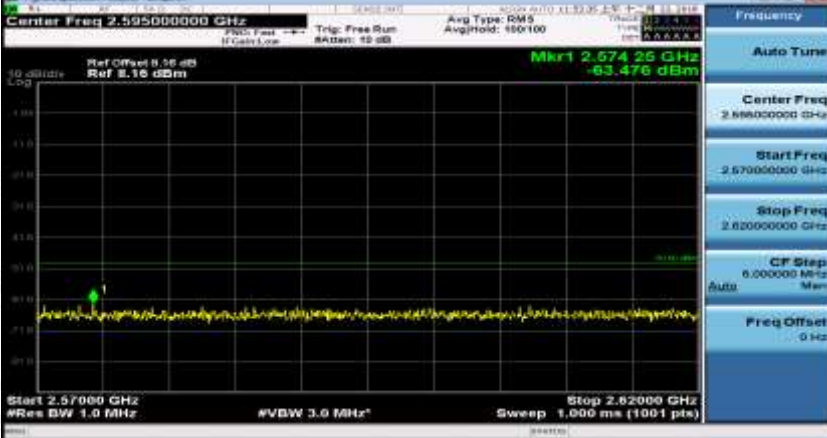
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General	
Co-existence	
Co-existence	

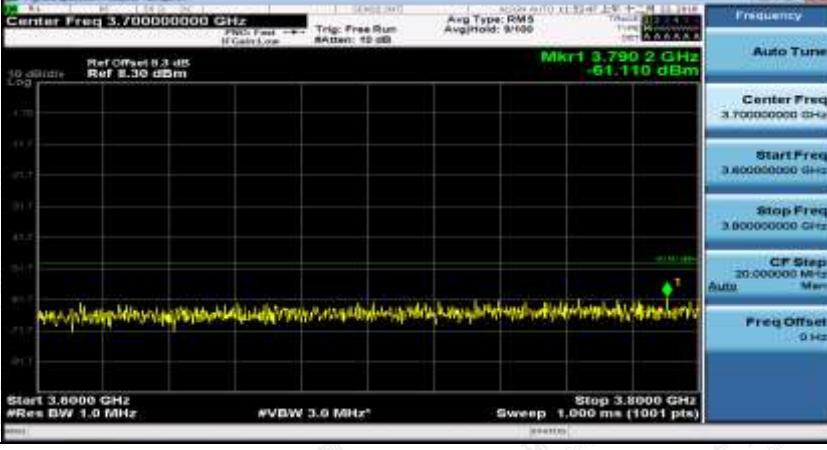
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

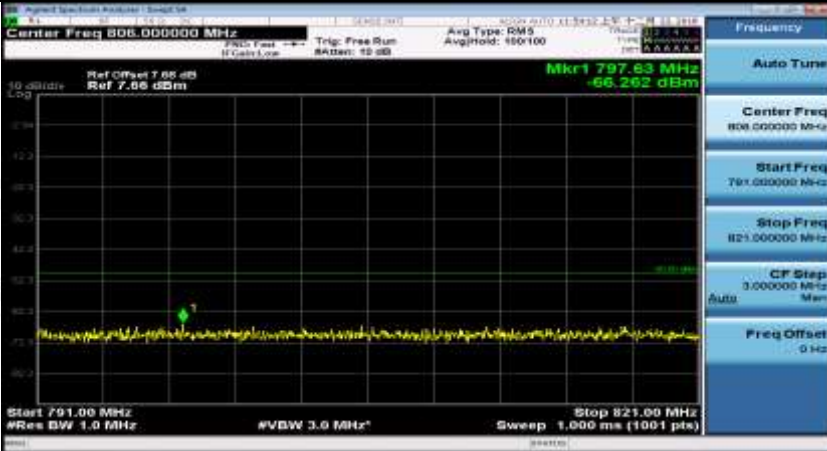
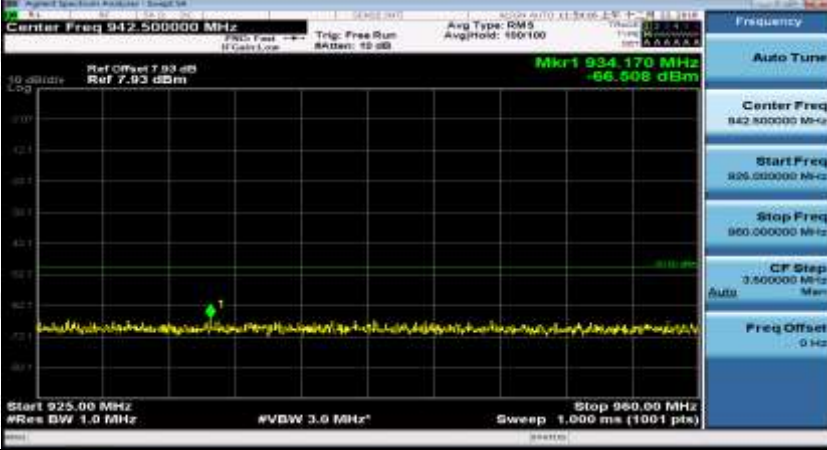
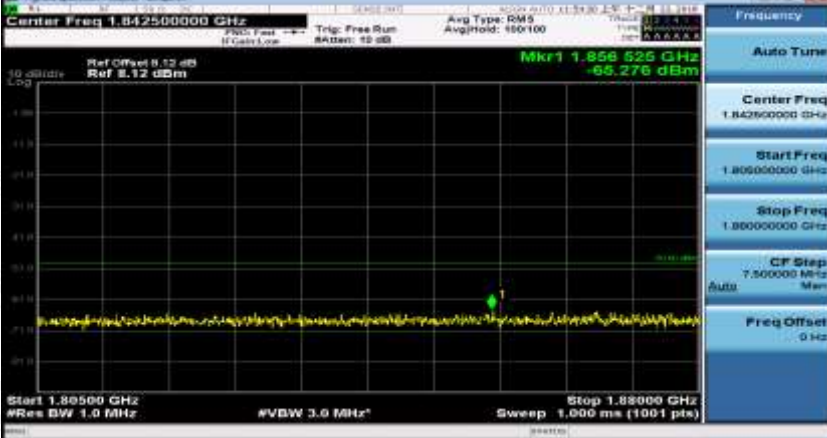
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Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#max			
General			
General			
General			

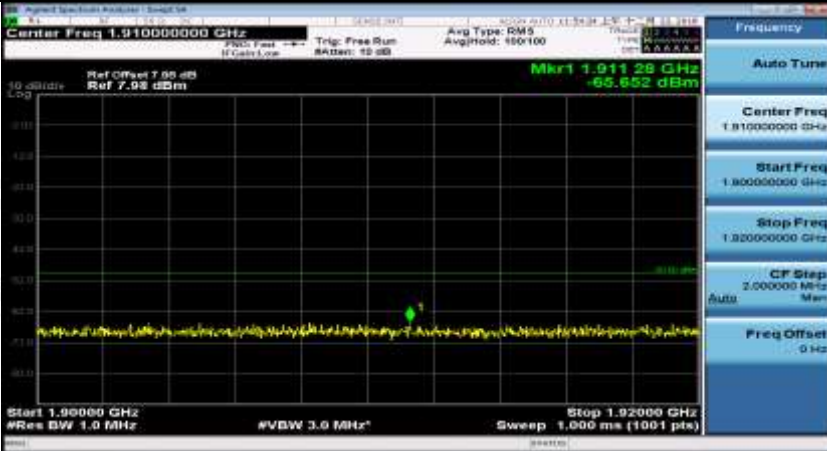
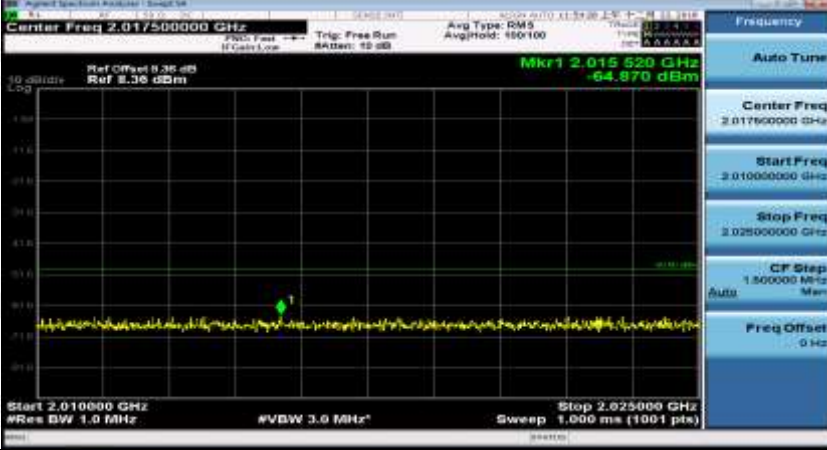
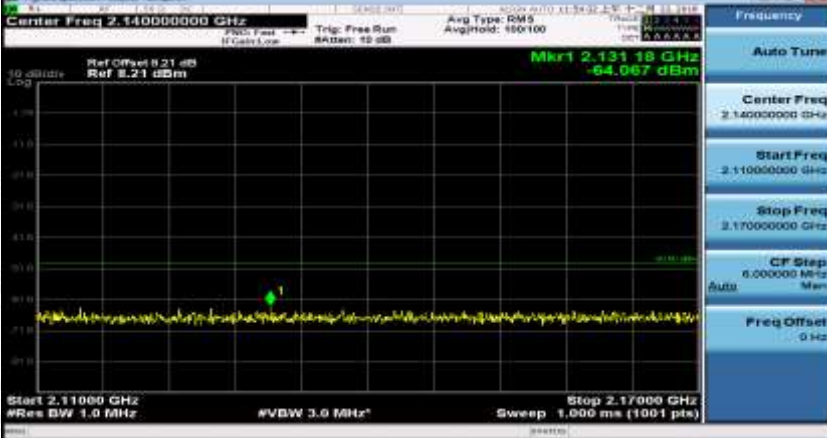
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General	
General	
General	

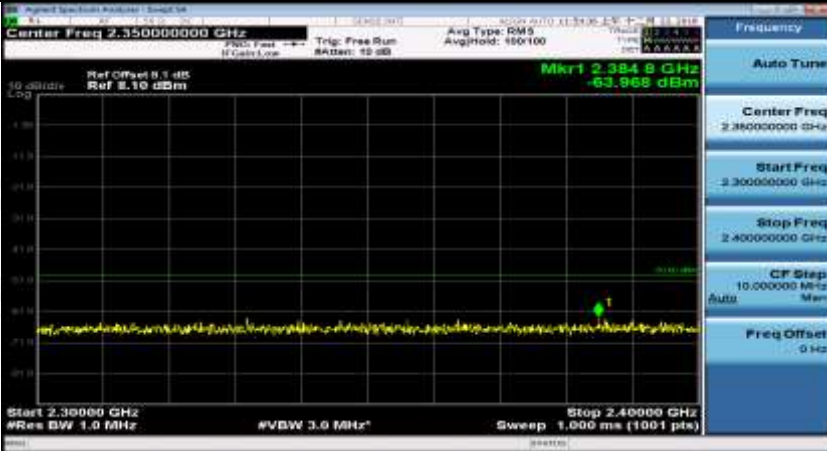

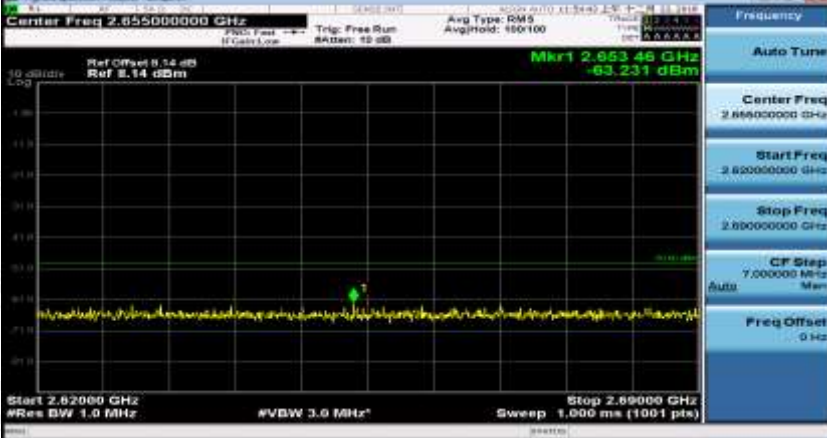
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Co-existence	
Co-existence	
Co-existence	

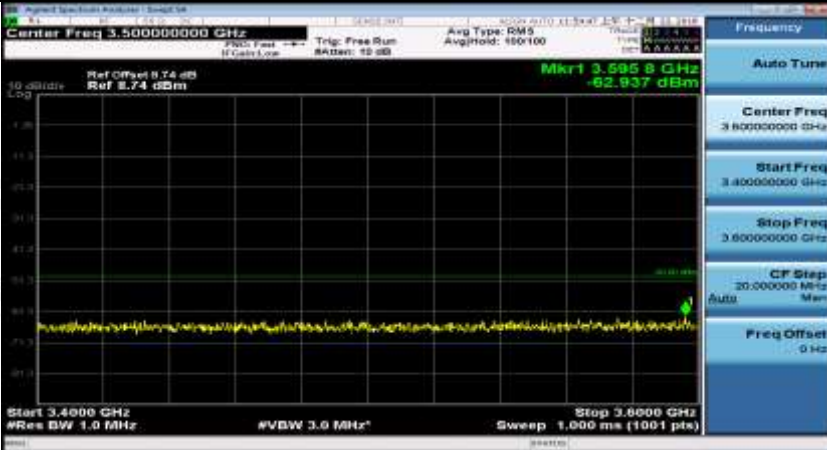
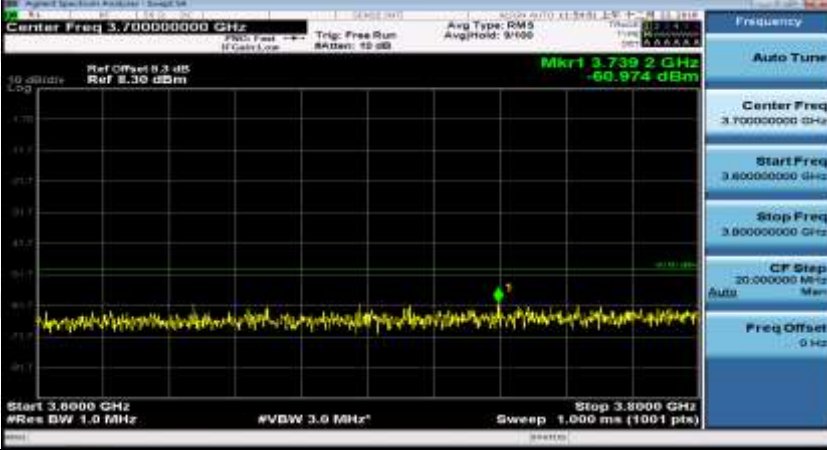
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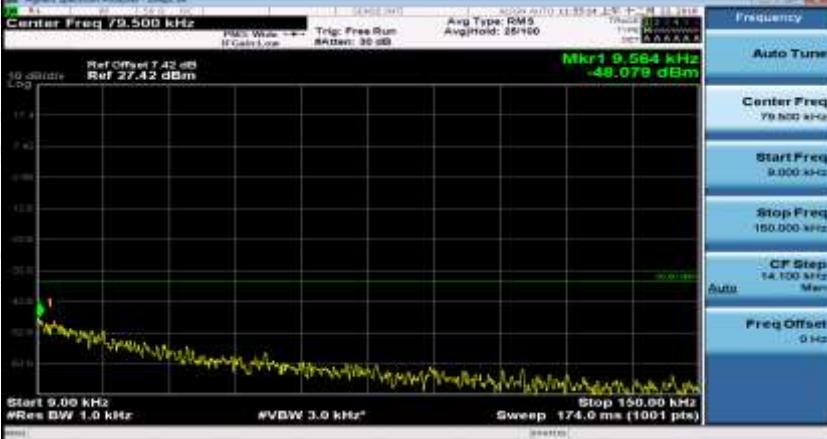
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
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Co-existence	

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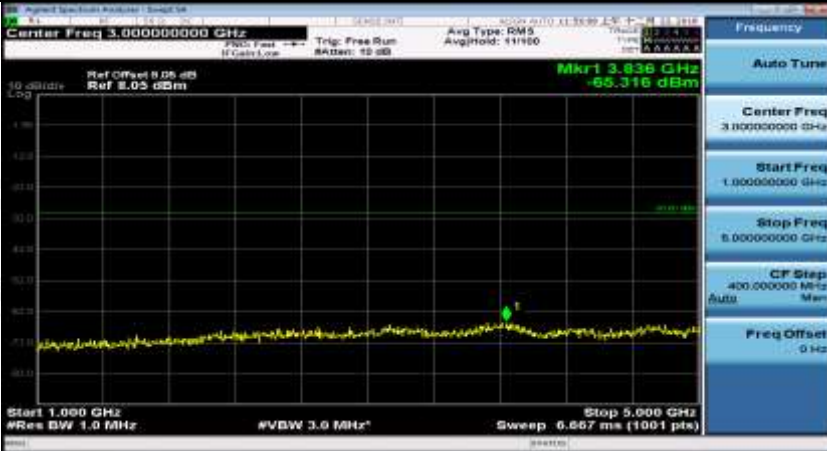

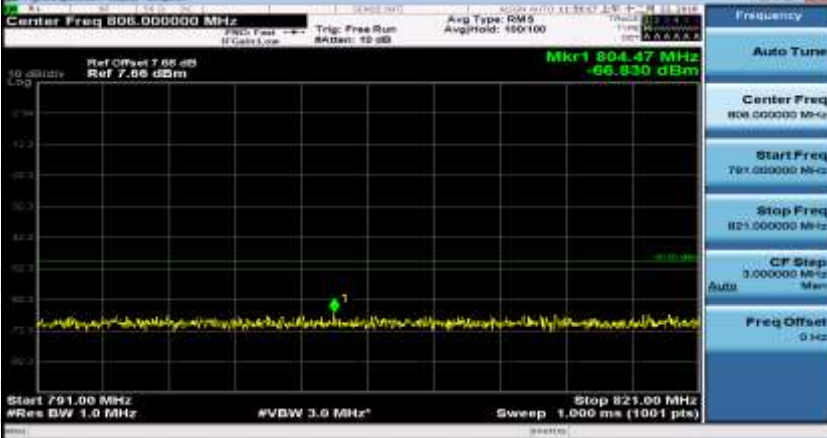
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullIRB#0	
General	


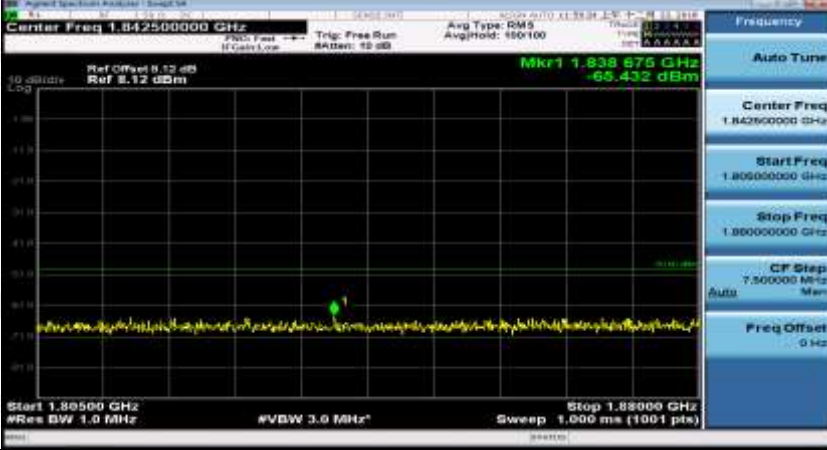
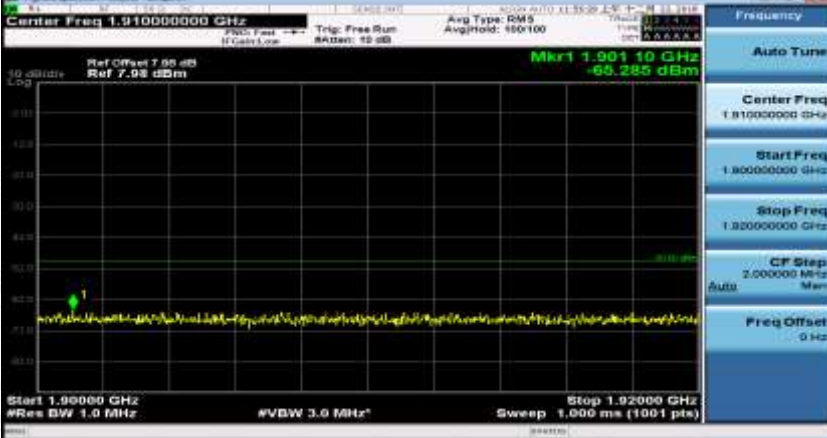
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General			
General			
General			

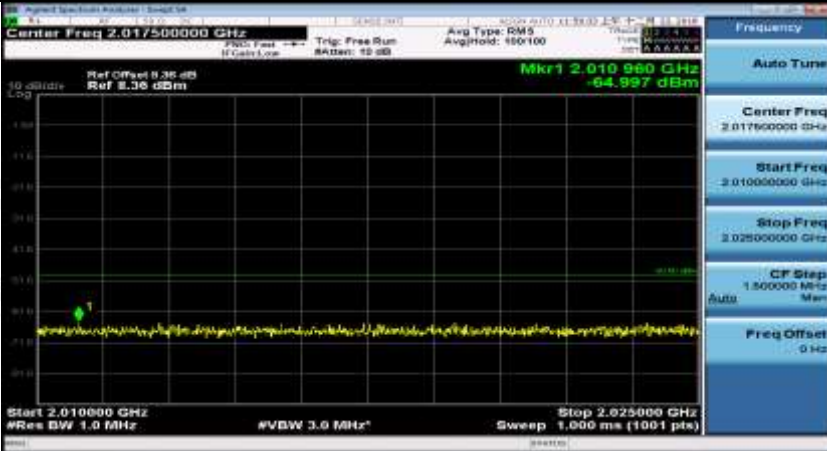
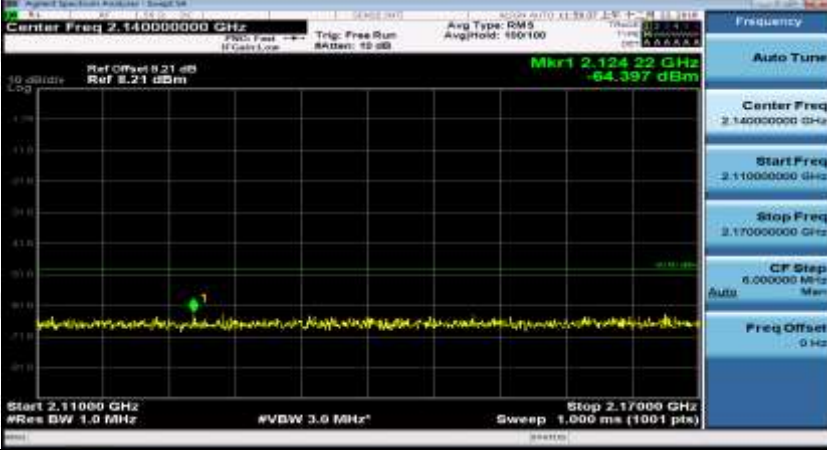
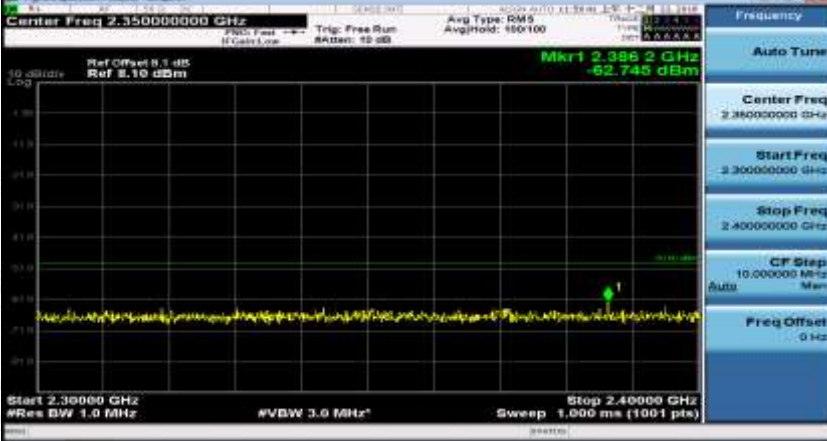
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General	
General	
Co-existence	

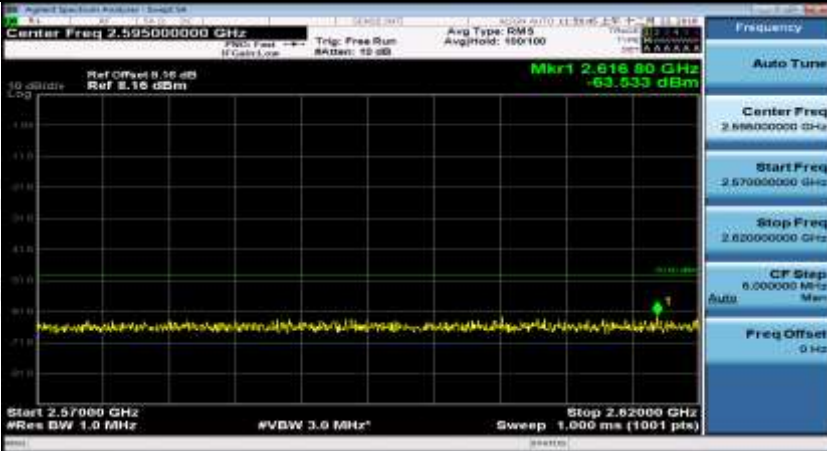
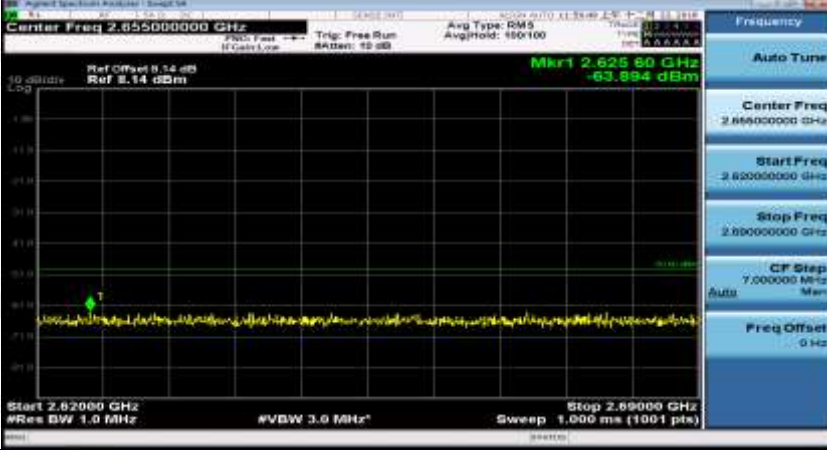
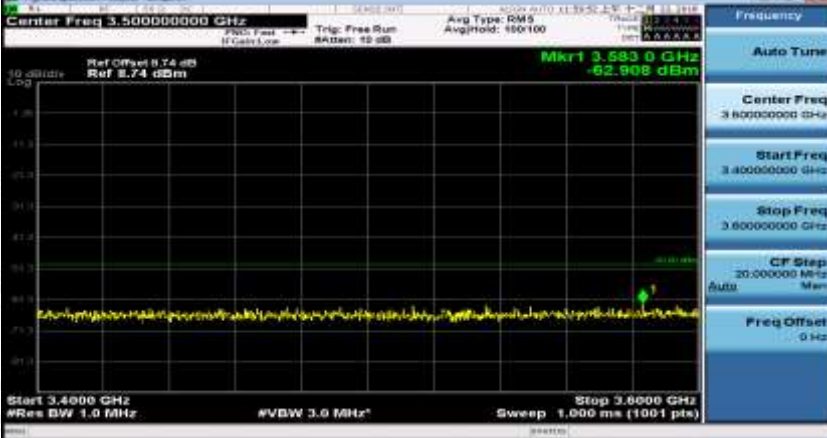
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Co-existence	
Co-existence	
Co-existence	

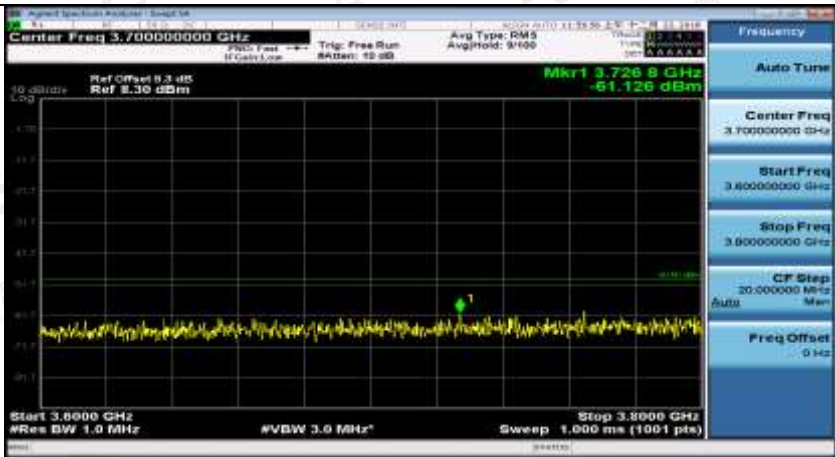
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Co-existence	
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Co-existence	
Co-existence	
Co-existence	



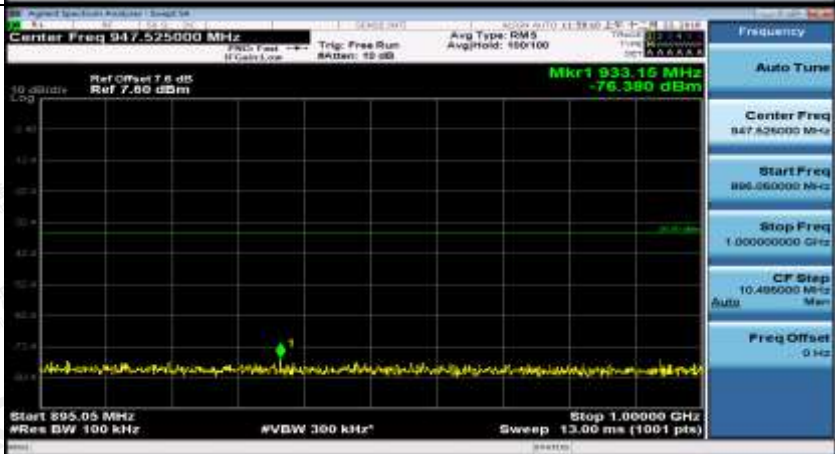
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Co-existence	
Additional	NA

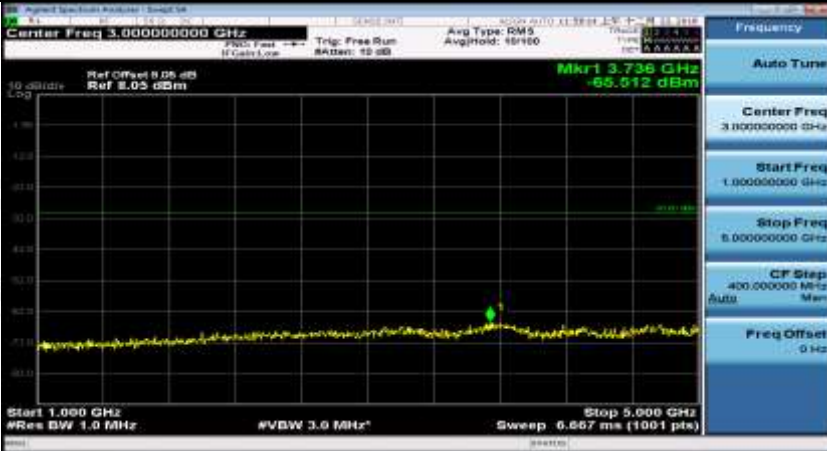
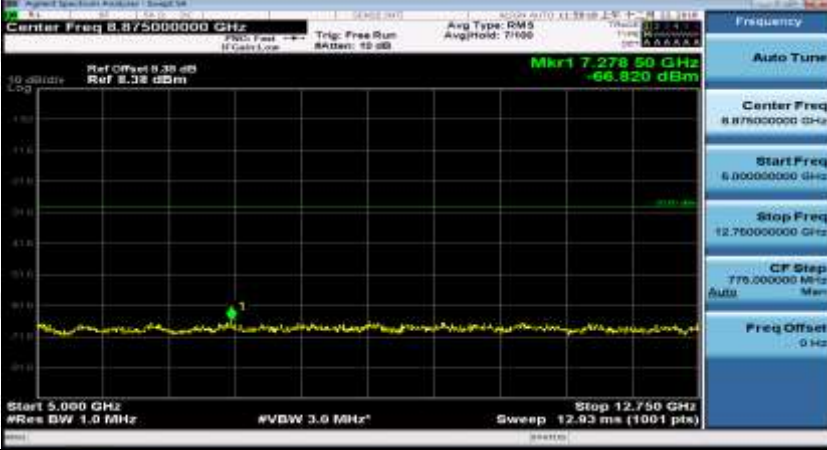
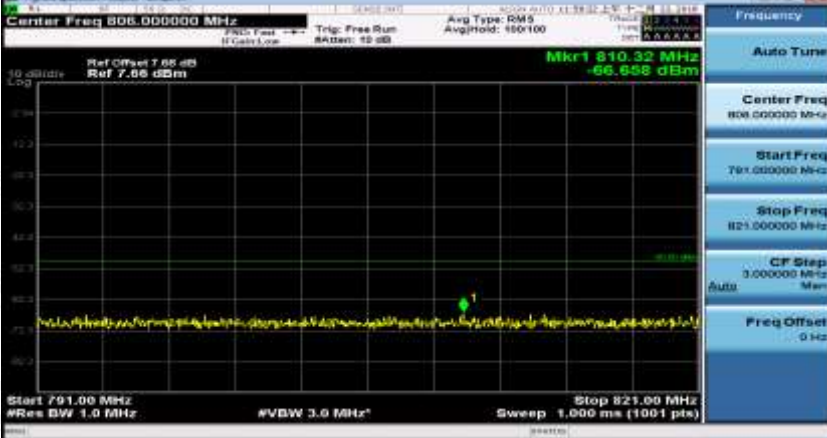
Channel Bandwidth= (5 MHz)

Channel Bandwidth=(5 MHz)_QPSK_LCH_1RB#0	
General	


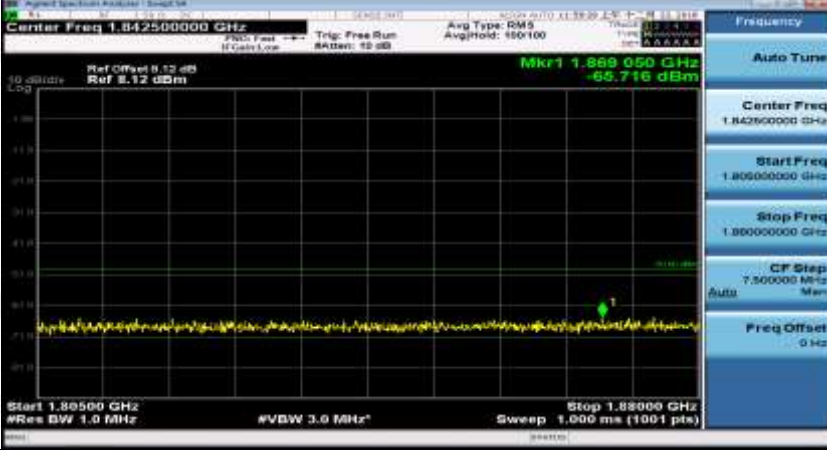
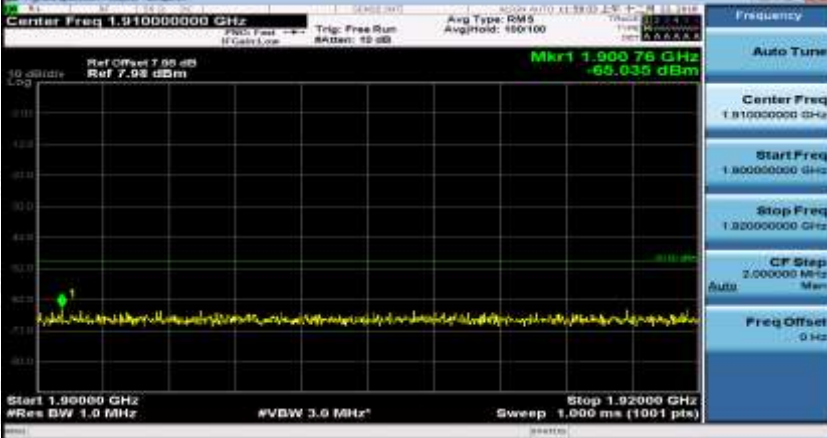
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General			
General			
General			


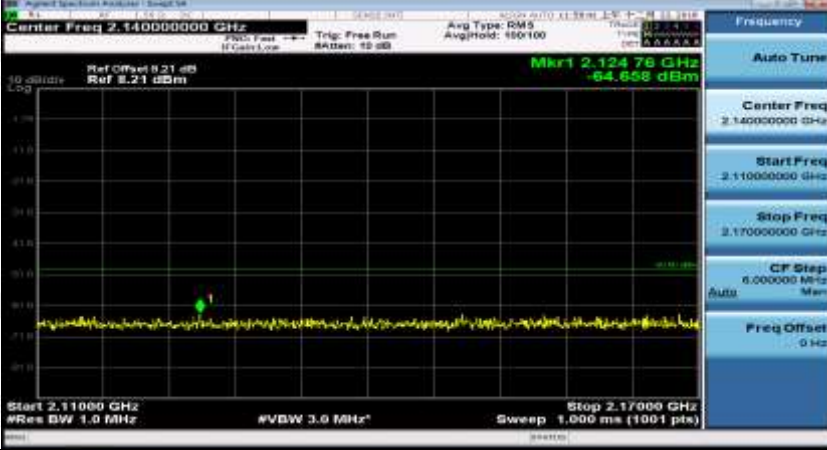
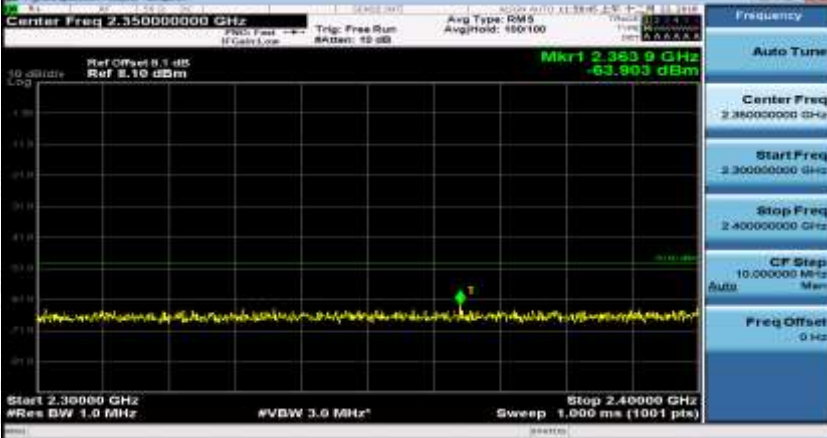
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General	
General	
Co-existence	

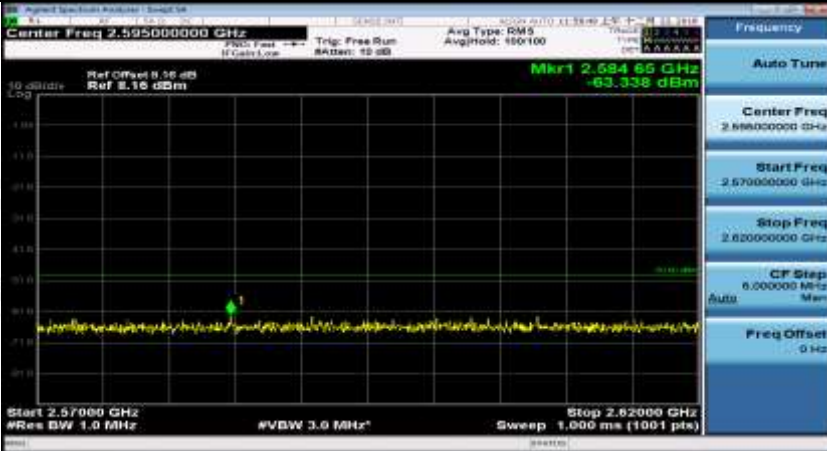
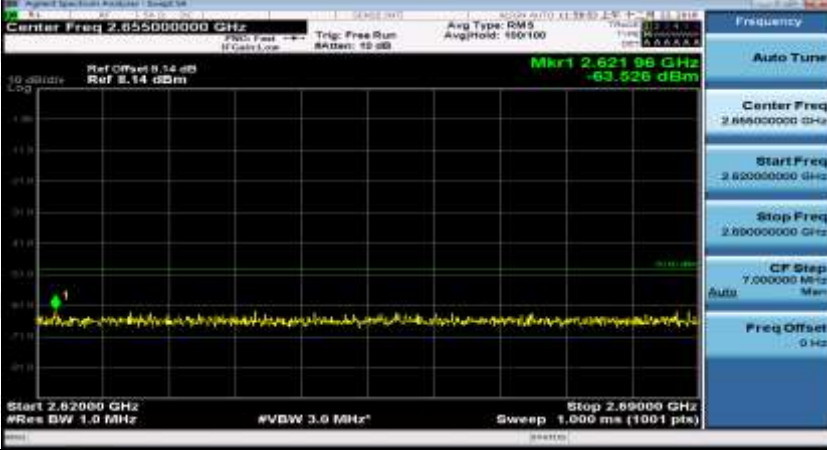
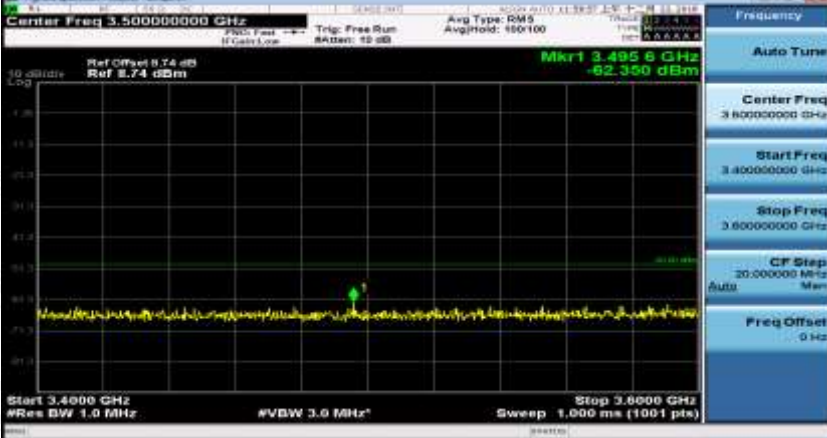
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Co-existence	
Co-existence	
Co-existence	

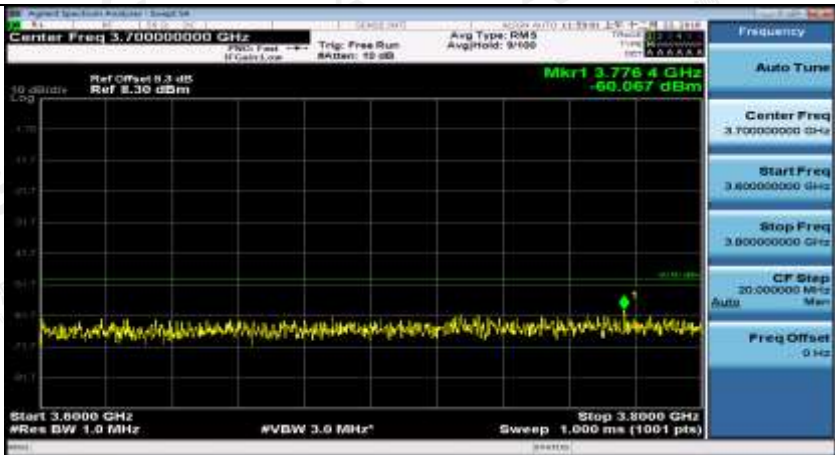
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Co-existence	
Co-existence	
Co-existence	

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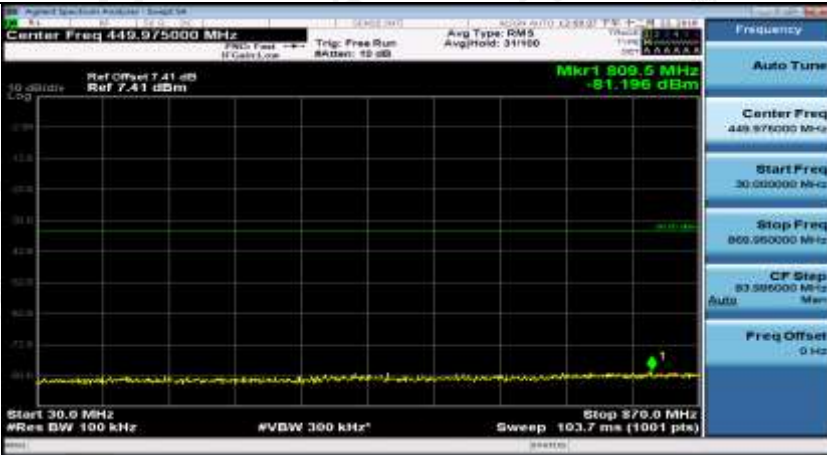
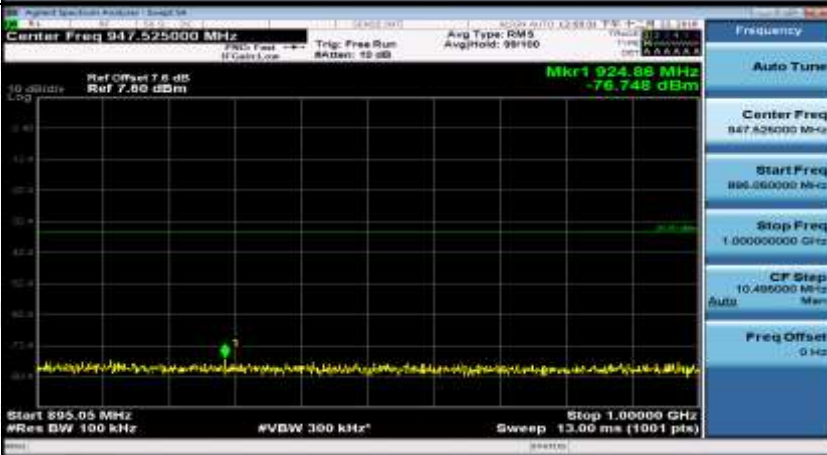

Co-existence	
Co-existence	
Co-existence	

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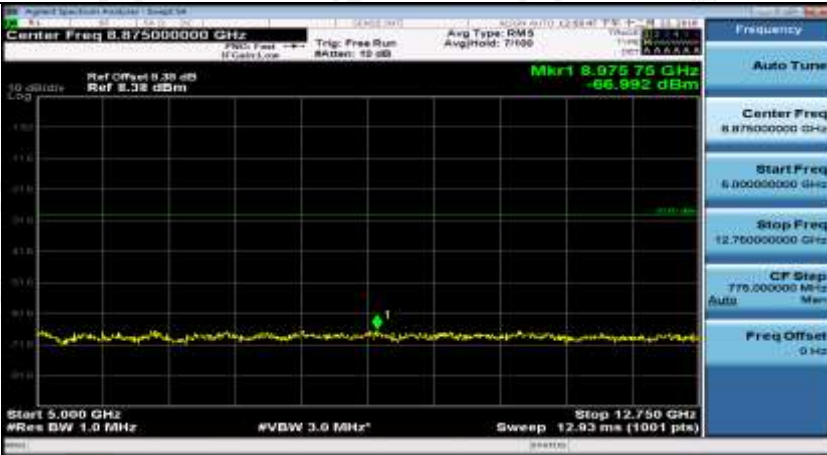


Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_LCH_1RB#max	
General	
General	

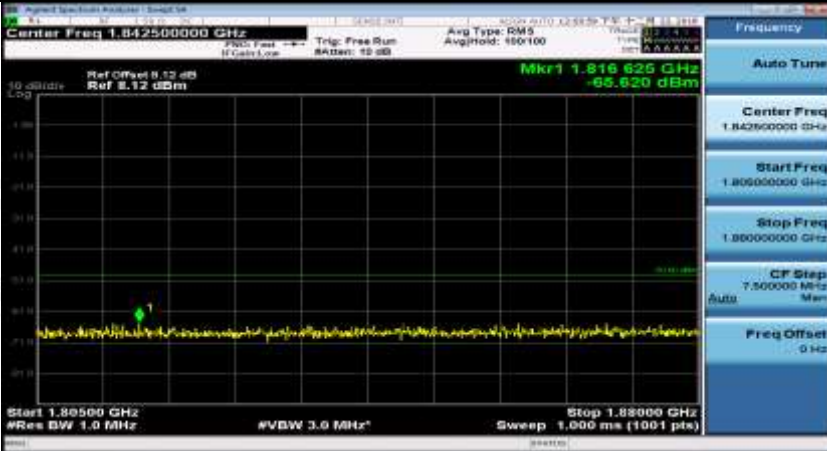
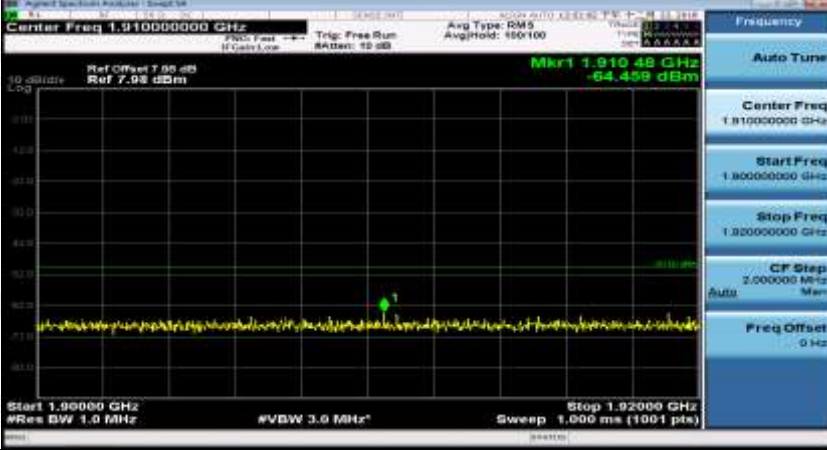
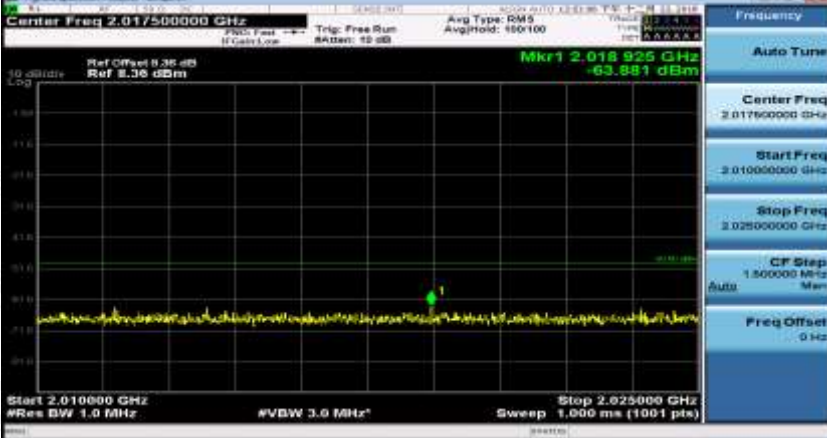
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General	
General	
General	

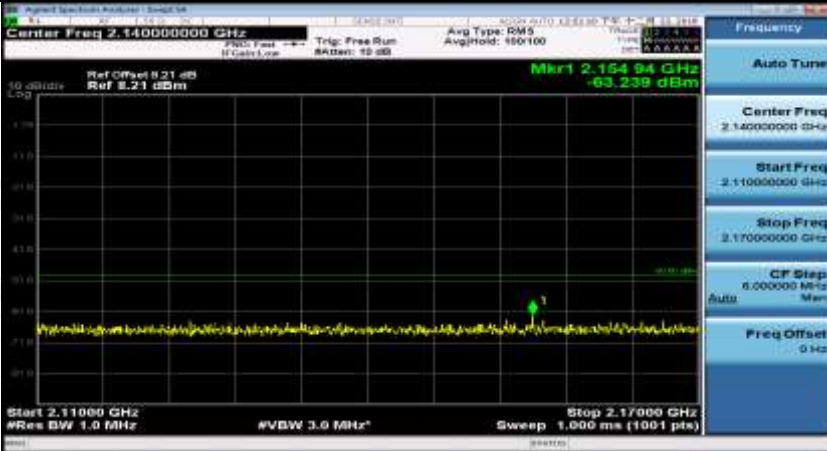
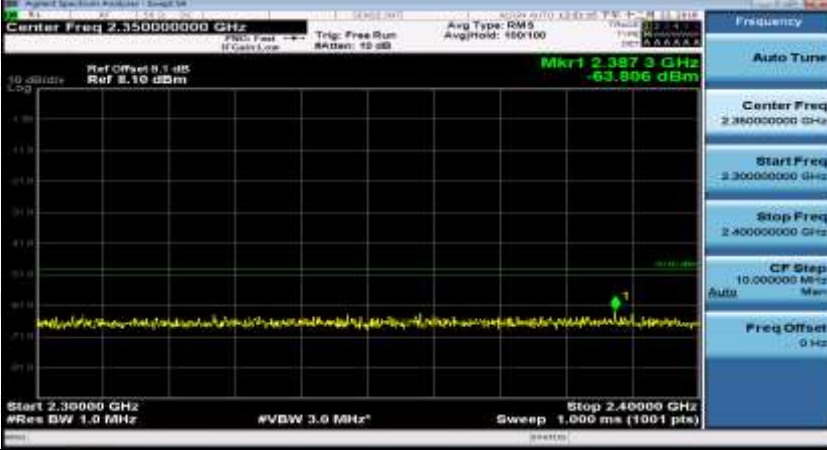
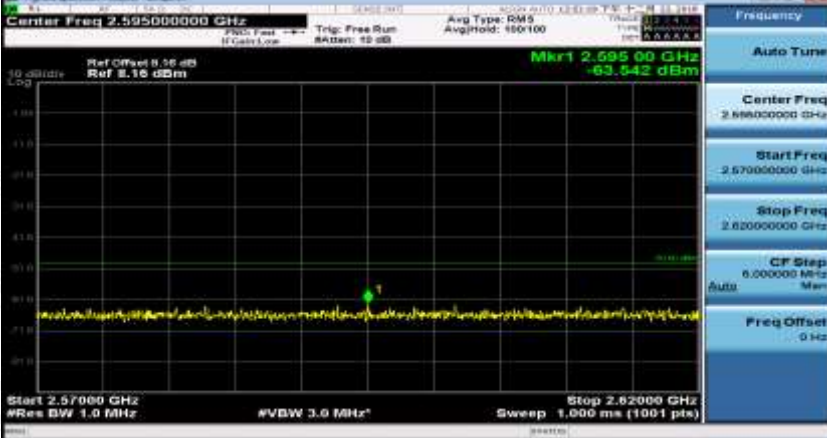
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General	
Co-existence	
Co-existence	

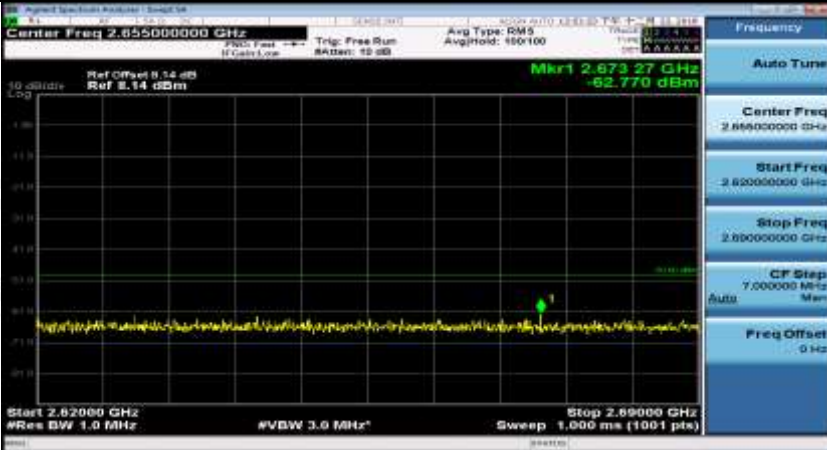
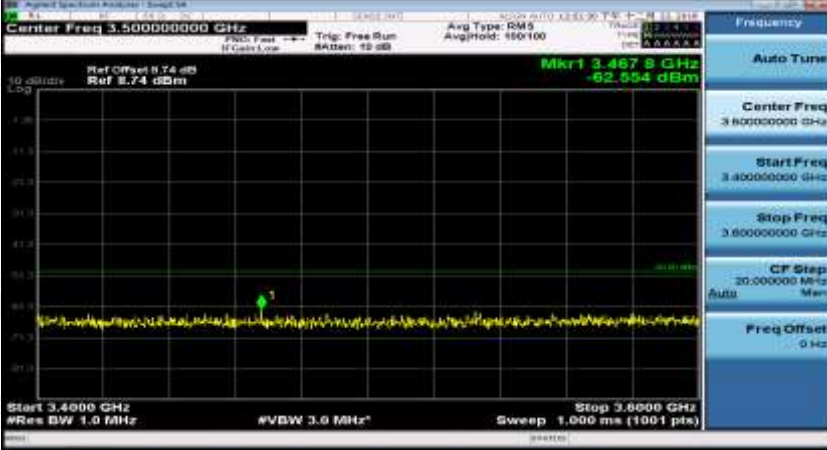
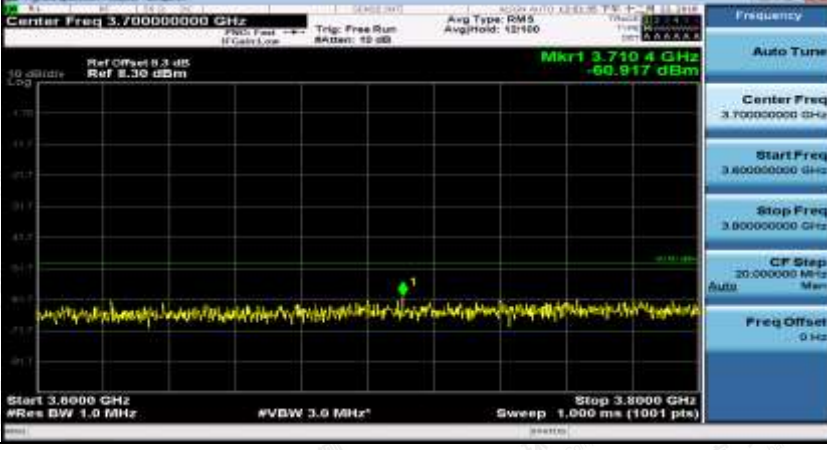
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Co-existence	
Co-existence	
Co-existence	

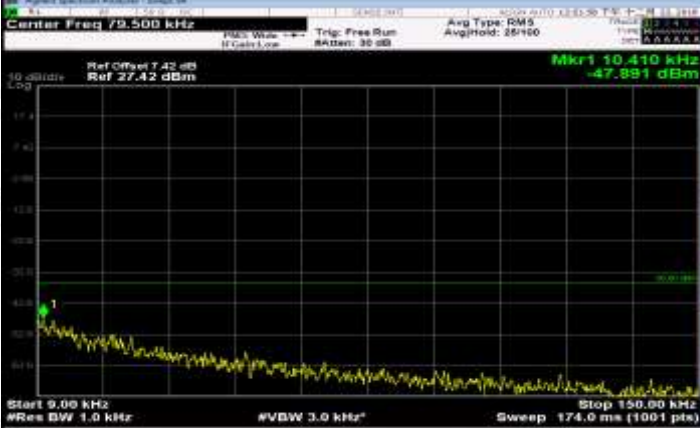


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Co-existence	
Co-existence	
Co-existence	

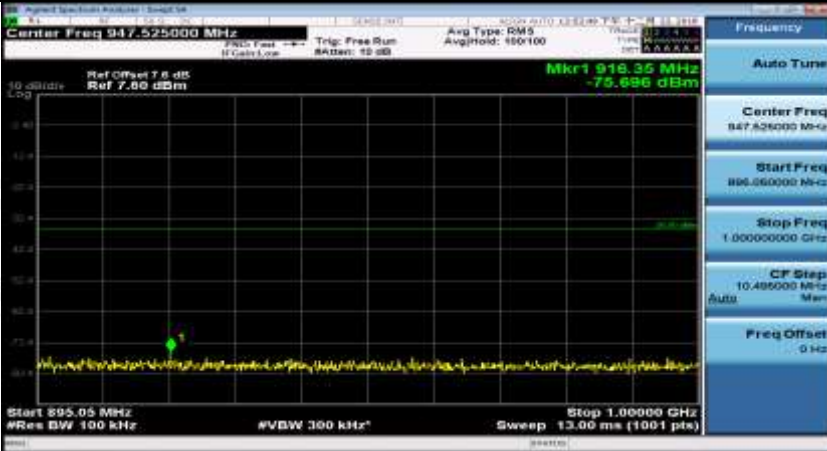


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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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Channel Bandwidth= (5 MHz)_QPSK_LCH_FullIRB#0			
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 9.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 kHz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.385000 MHz</p> <p>Man</p> <p>Freq Offset 0 kHz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 449.975000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 800.000000 MHz</p> <p>CF Step 83.385000 MHz</p> <p>Man</p> <p>Freq Offset 0 kHz</p>


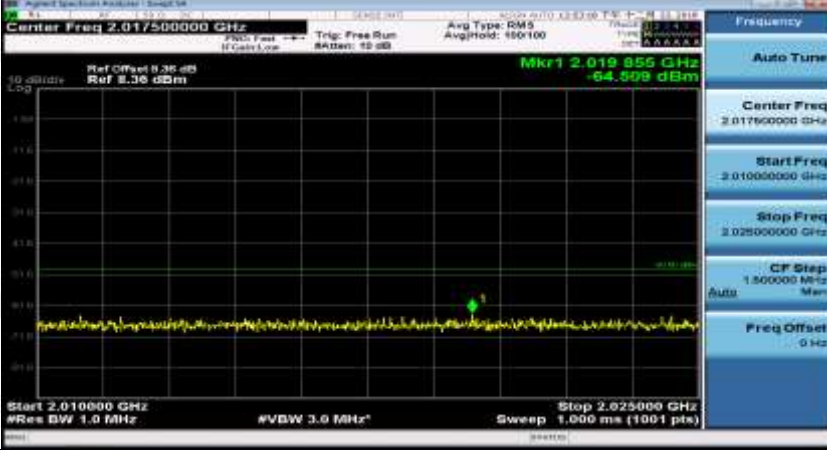
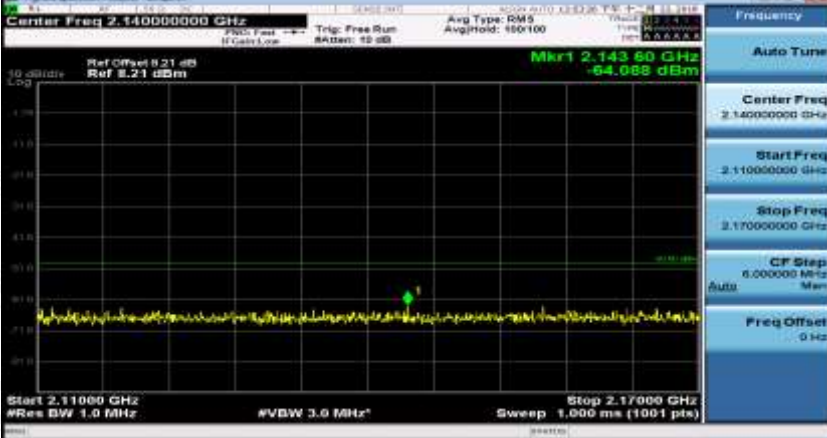
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General	
General	
General	

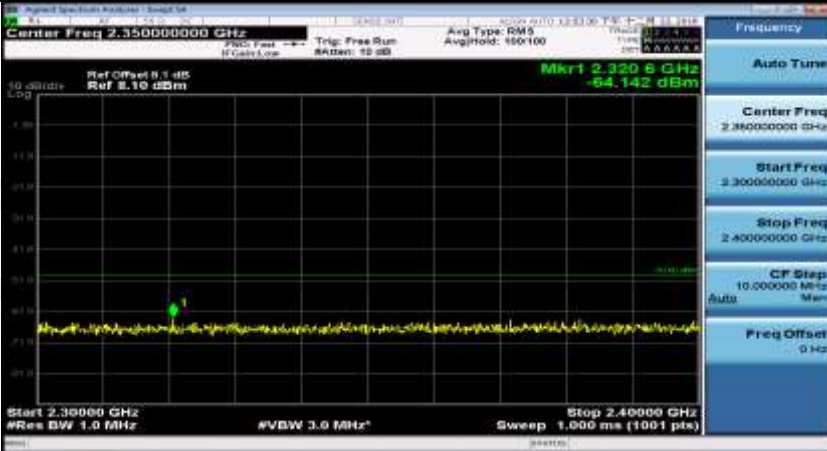
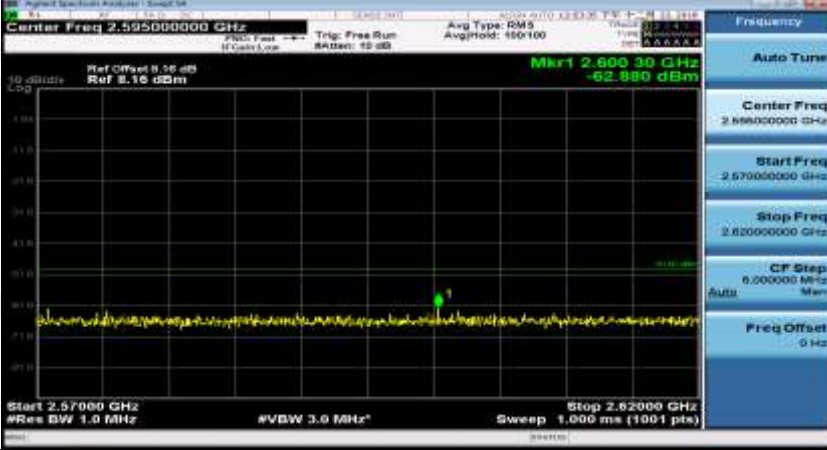
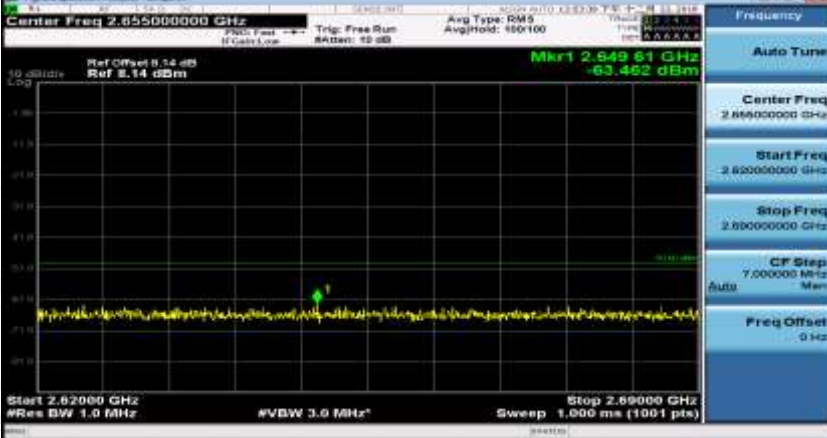
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Co-existence	
Co-existence	
Co-existence	

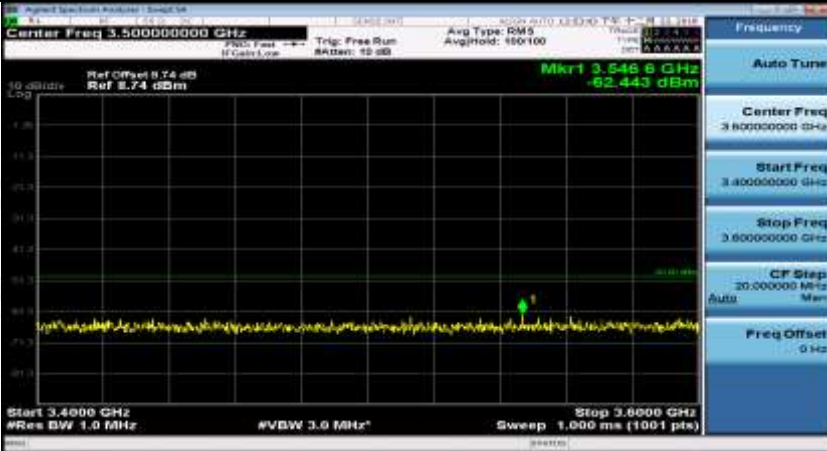

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Co-existence	
Co-existence	
Co-existence	

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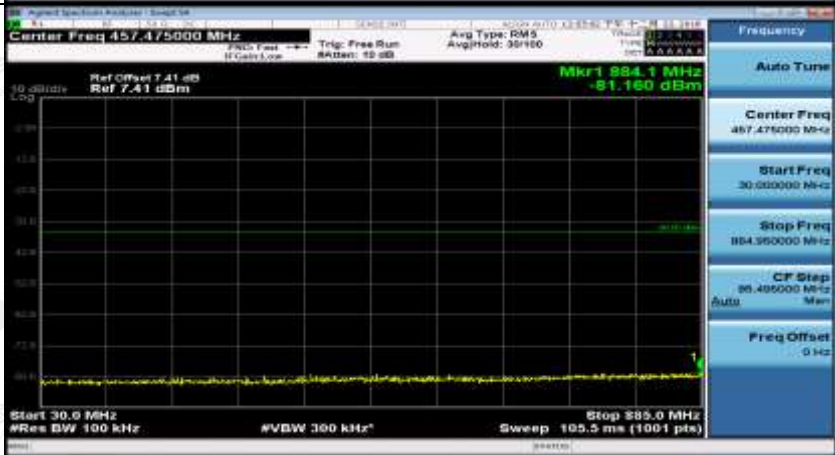

Co-existence	
Co-existence	
Co-existence	

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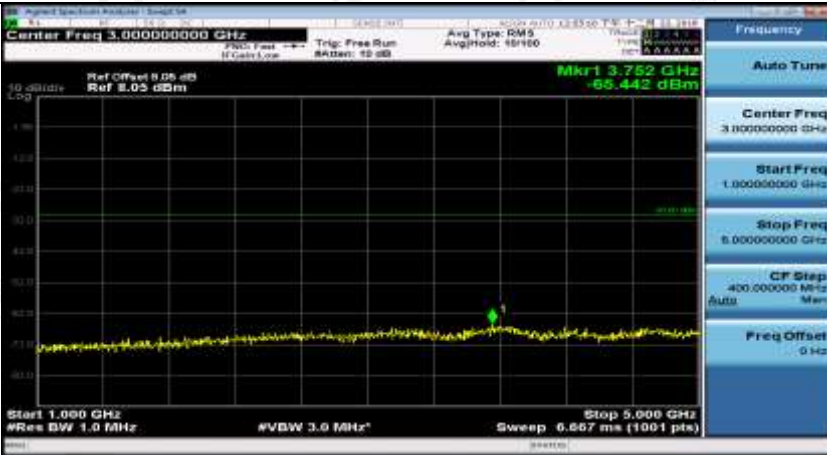


Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#0	
General	

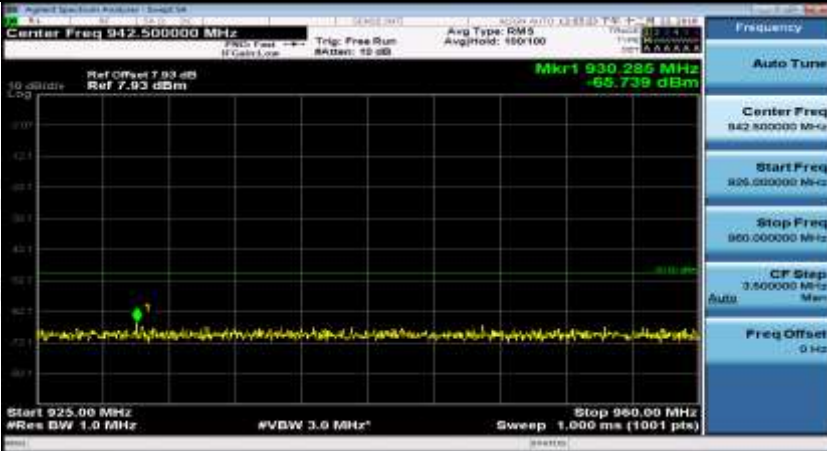
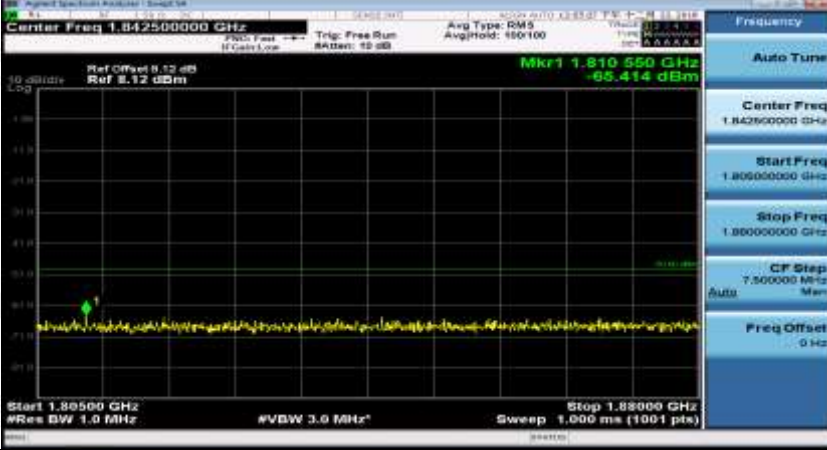
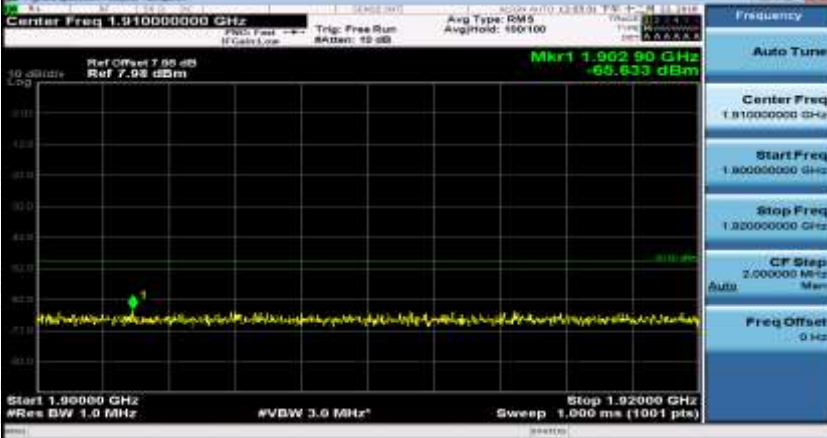
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General			
General			
General			


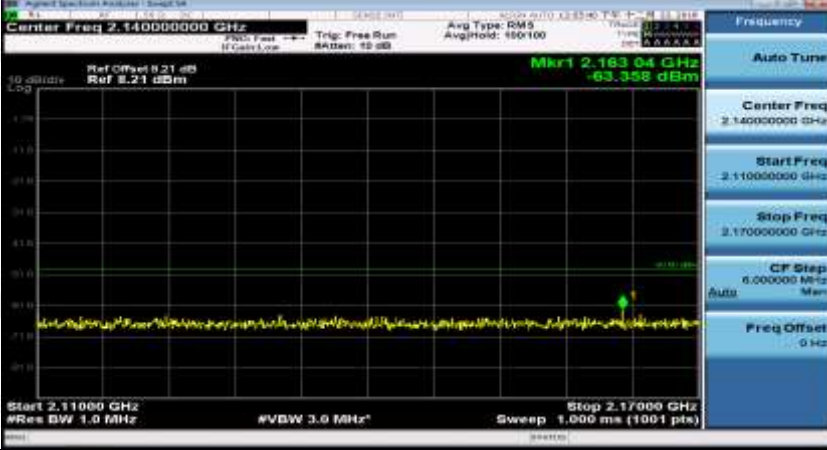
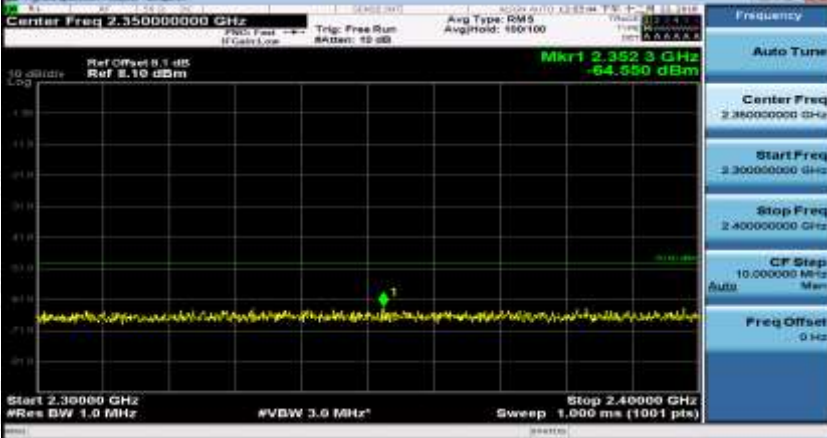
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General	
General	
Co-existence	

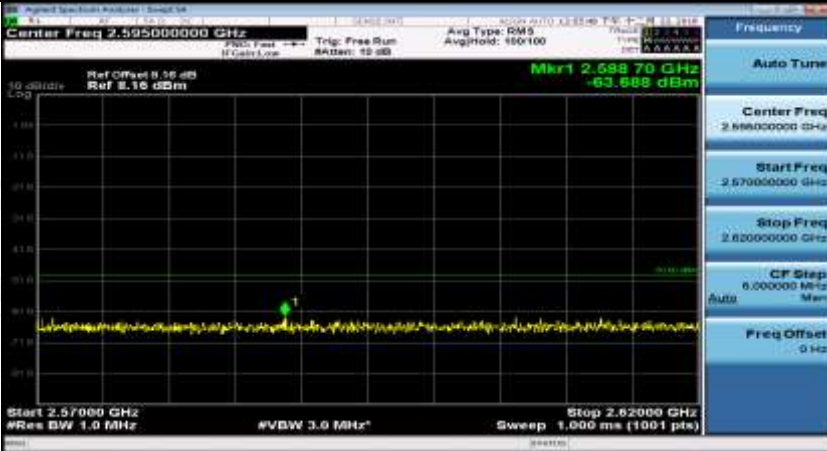
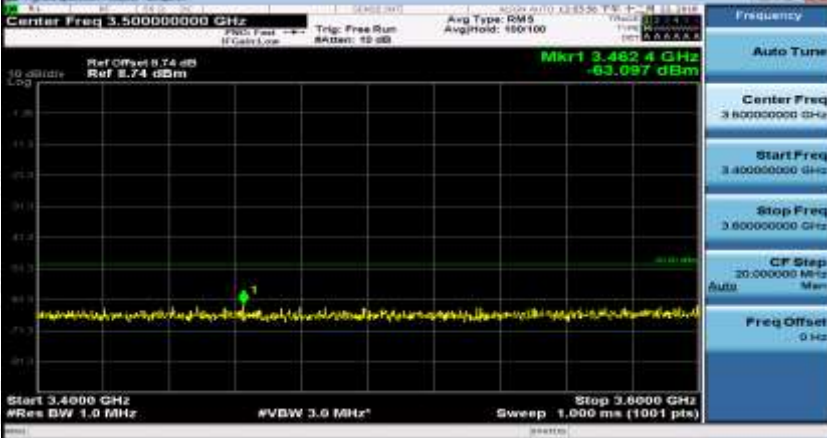
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Co-existence	
Co-existence	
Co-existence	

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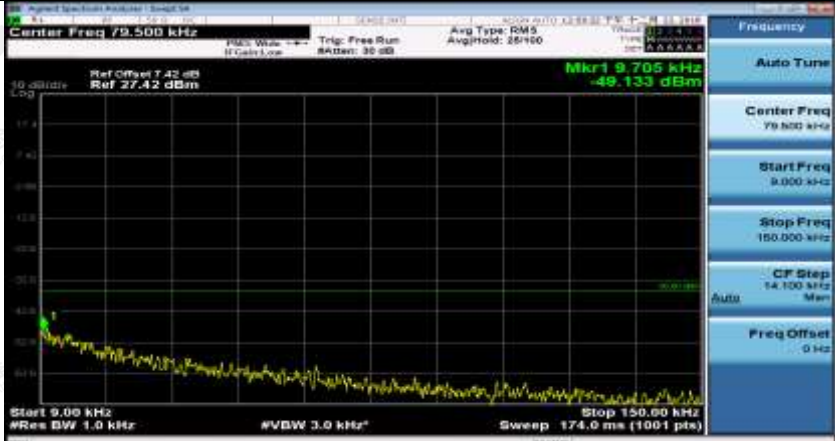

Co-existence	
Co-existence	
Co-existence	

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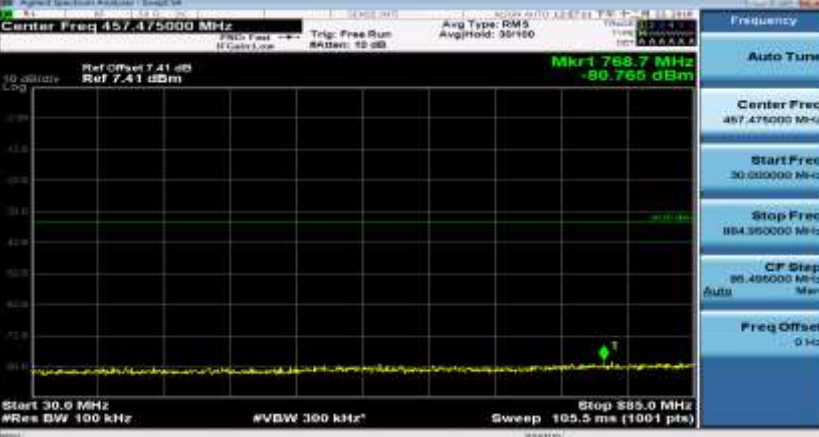


Co-existence	
Co-existence	
Co-existence	

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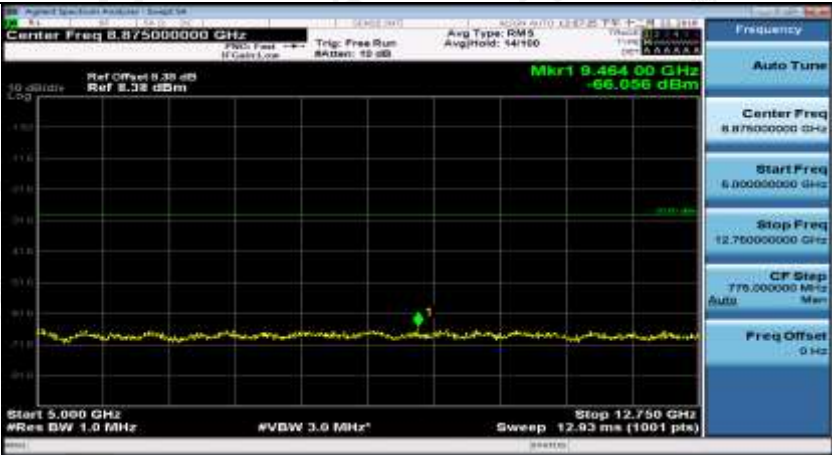

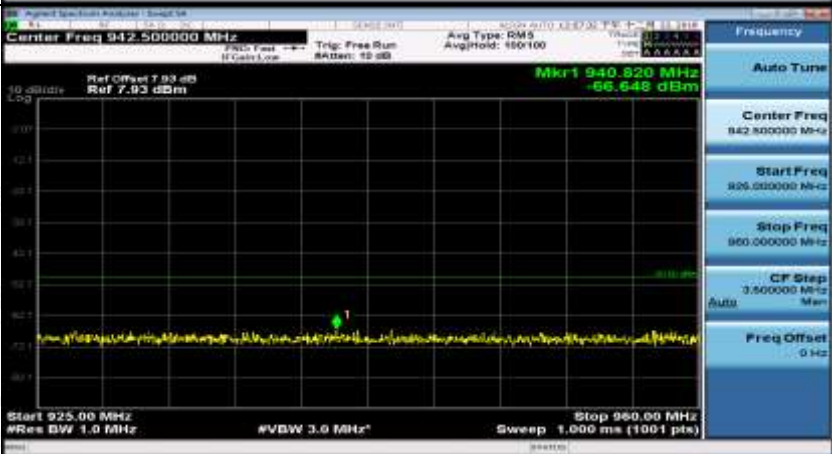
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#max	
General	
General	

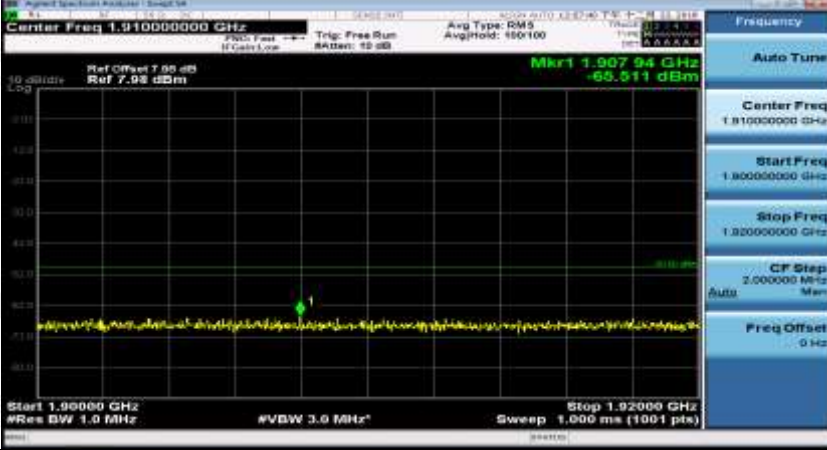

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General			
General			
General			

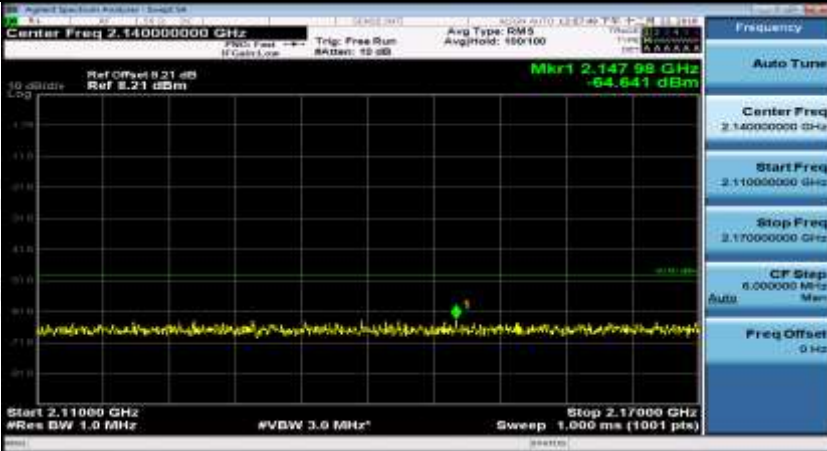
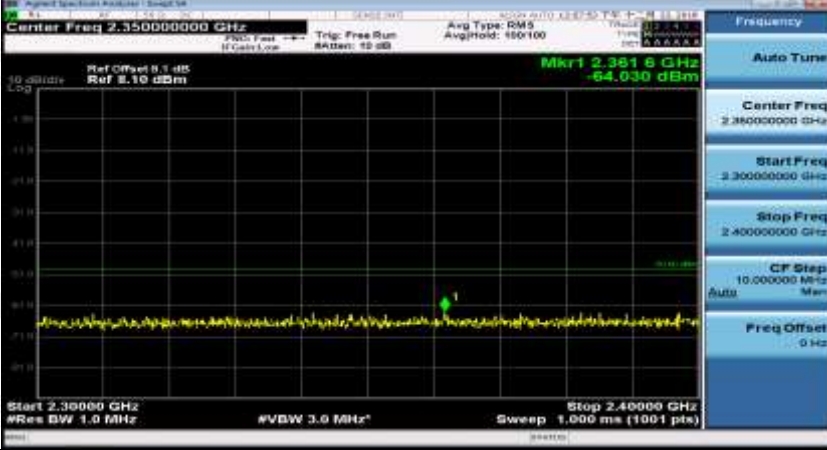
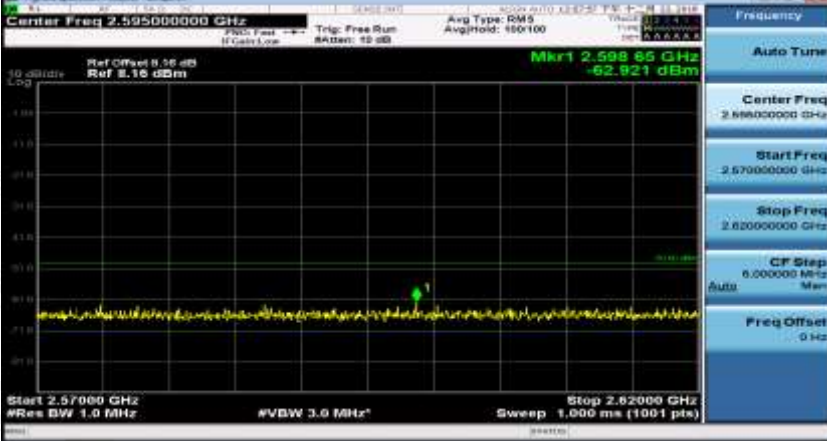
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General	
Co-existence	
Co-existence	


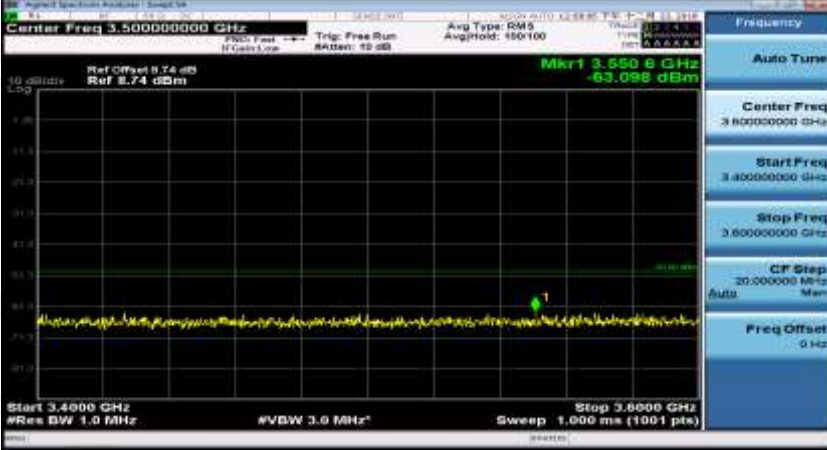
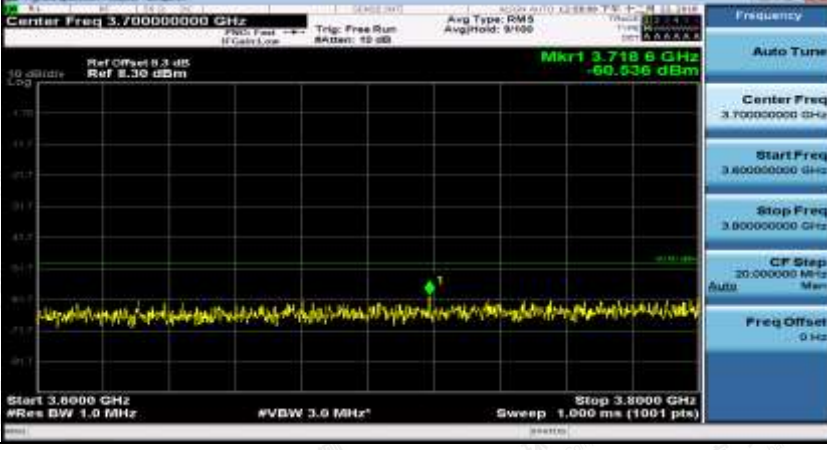
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Co-existence	
Co-existence	
Co-existence	




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Co-existence	
Co-existence	
Co-existence	

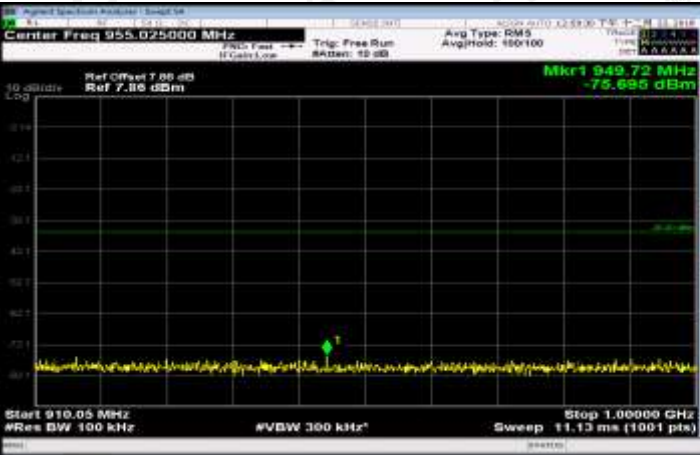

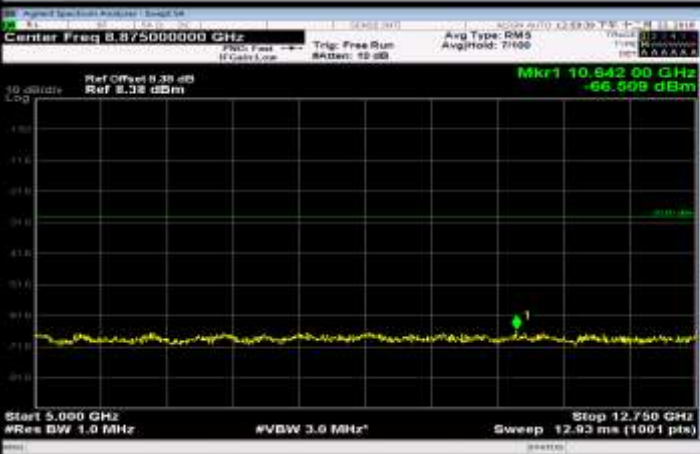
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Co-existence	
Co-existence	
Co-existence	
Additional	NA


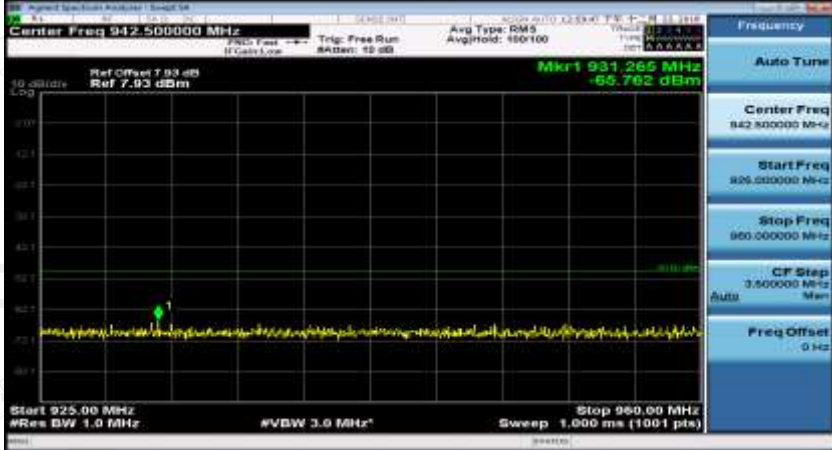

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Channel Bandwidth=(5 MHz)_QPSK_MCH_FullIRB#0		
General		
General		
General		

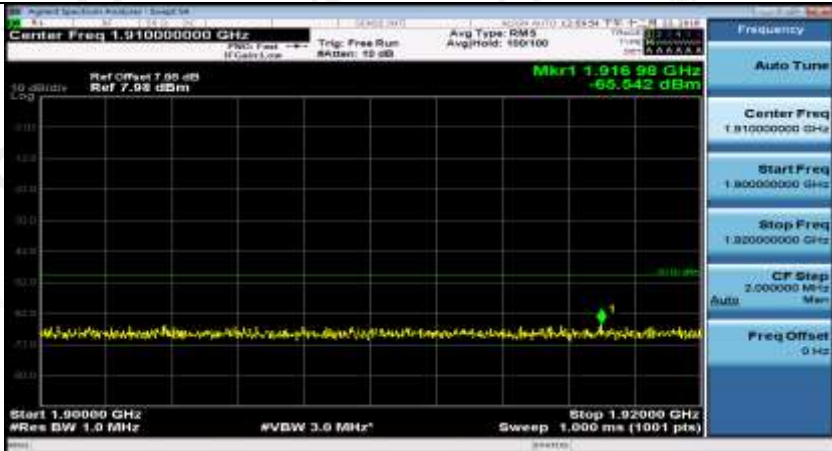
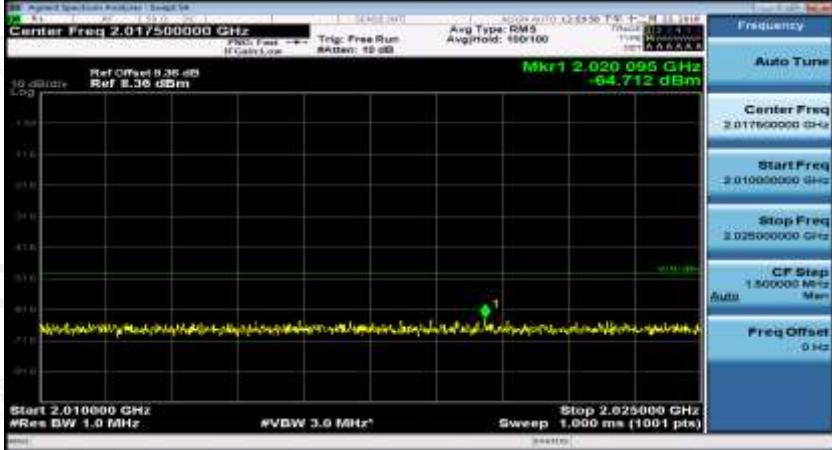
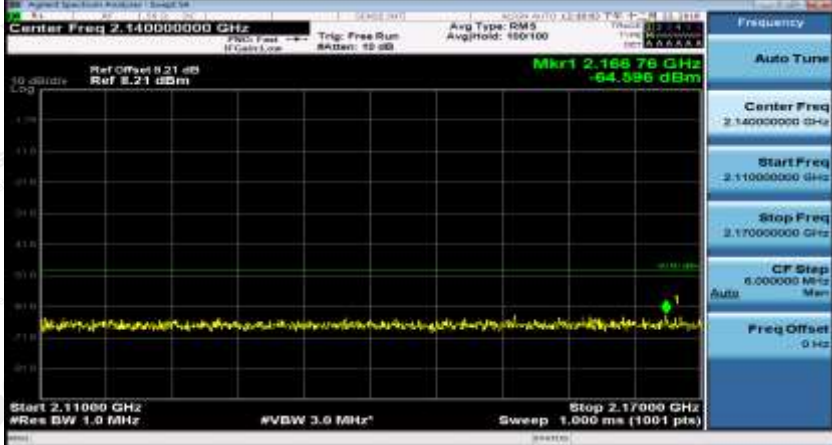
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 955.025000 MHz</p> <p>Start Freq 910.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 9.596000 MHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.000000000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 5.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>

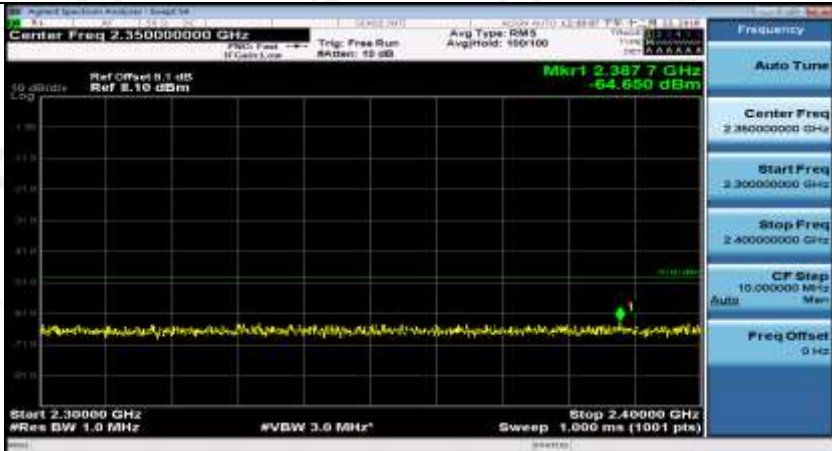
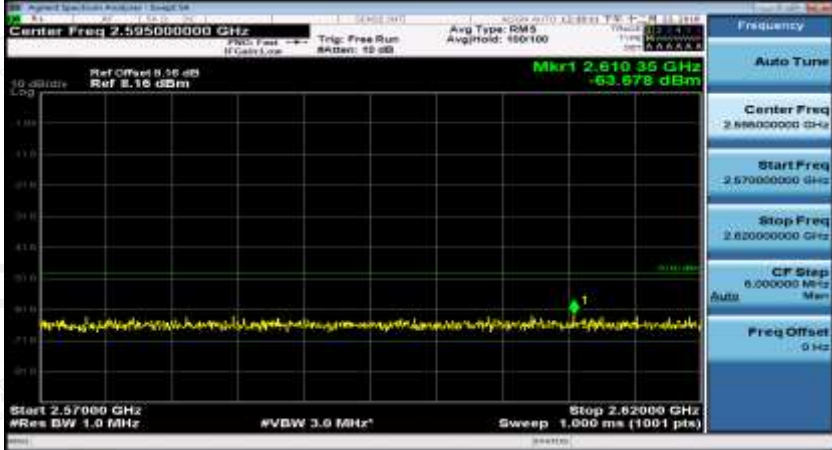

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Co-existence	
Co-existence	
Co-existence	


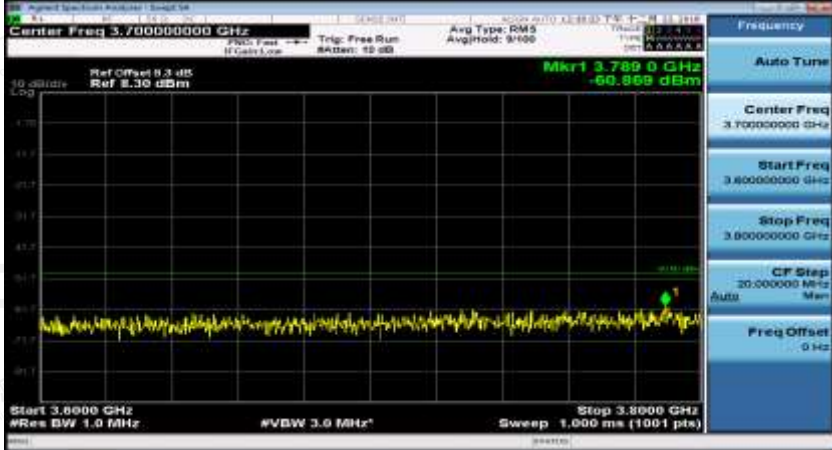
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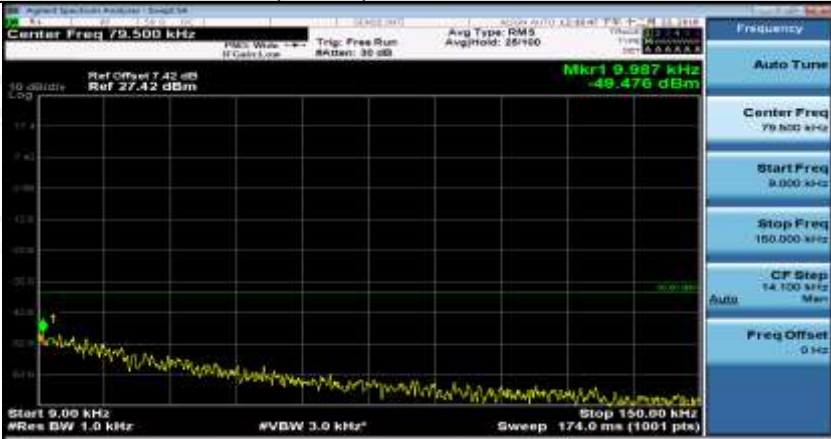
Co-existence	
Co-existence	
Co-existence	

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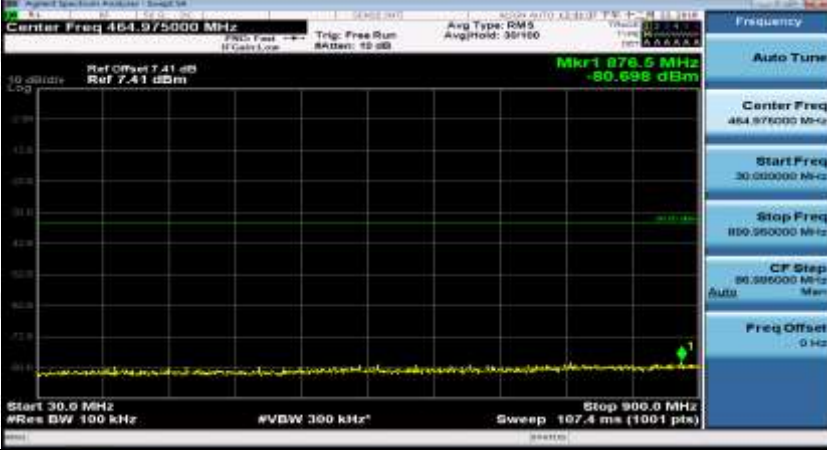
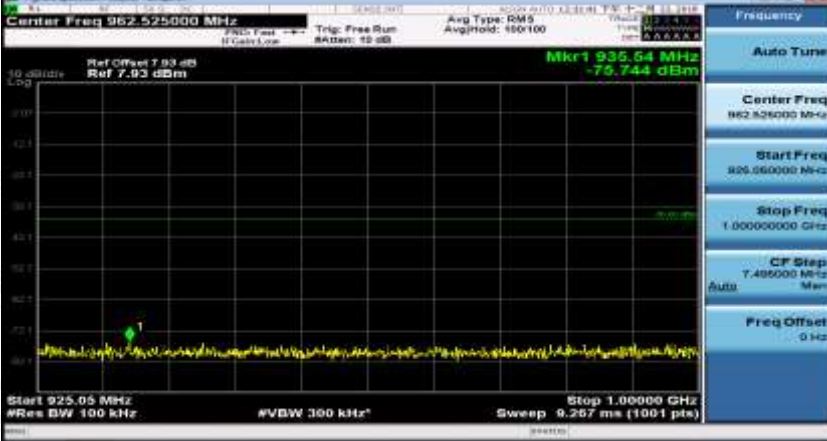
Co-existence	
Co-existence	
Co-existence	

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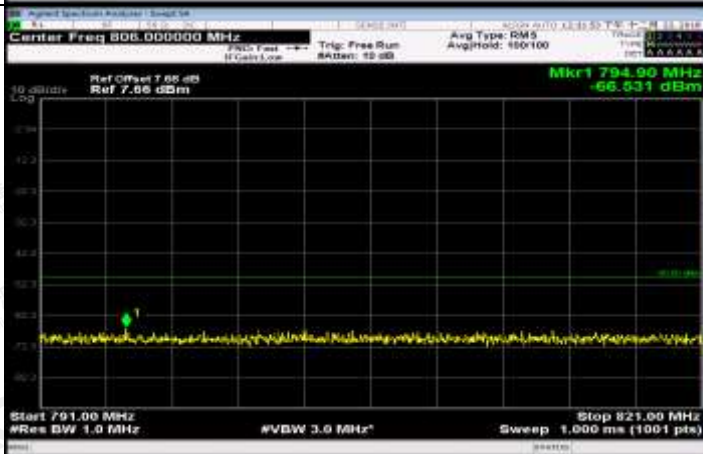
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#0	
General	


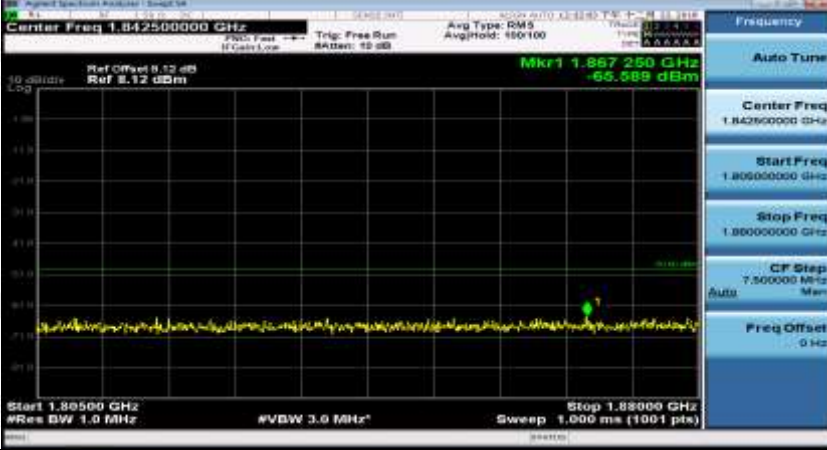
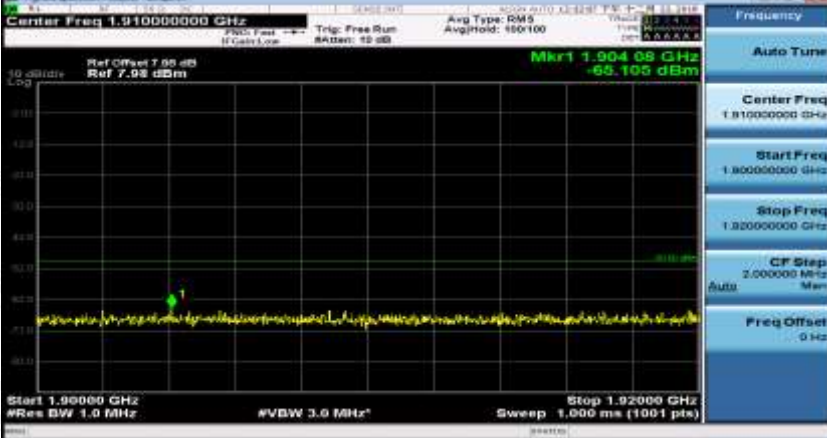
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General	
General	
General	

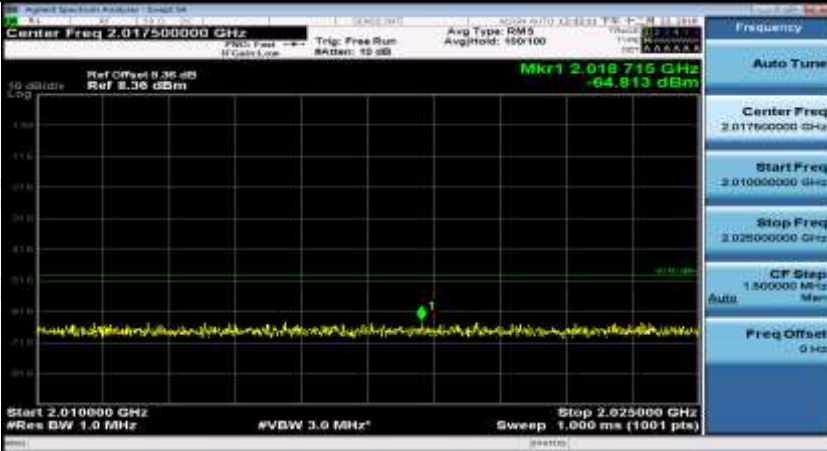
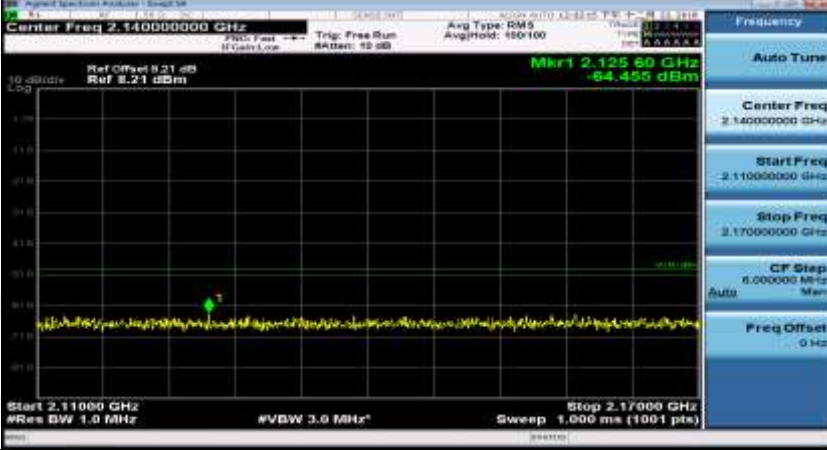
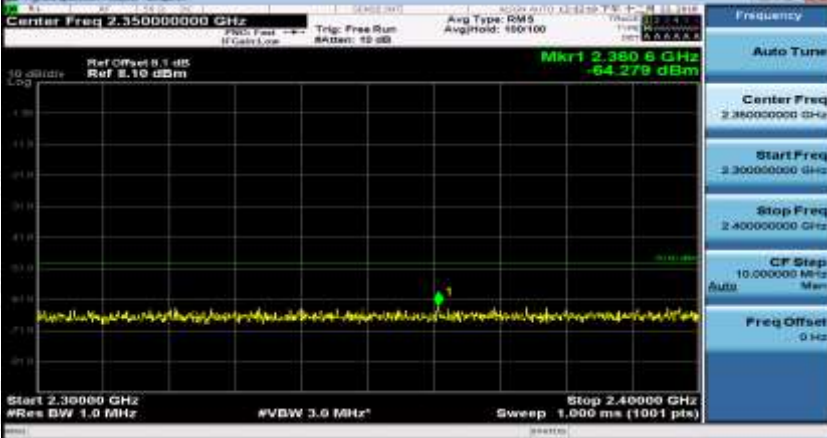
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.00000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>


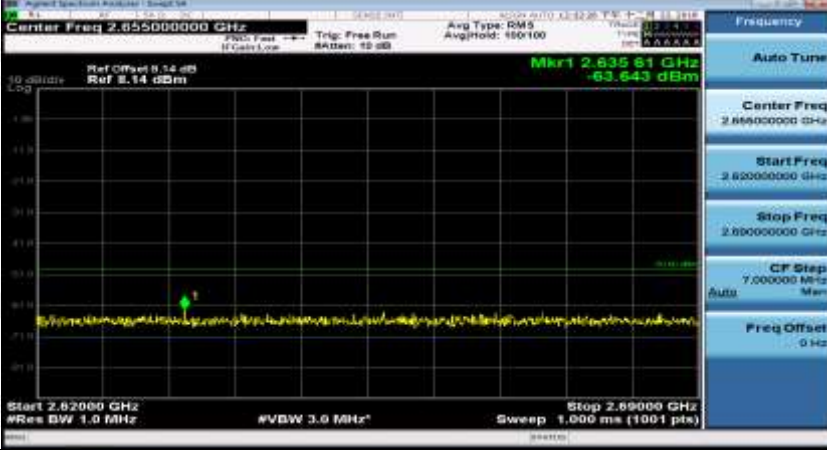
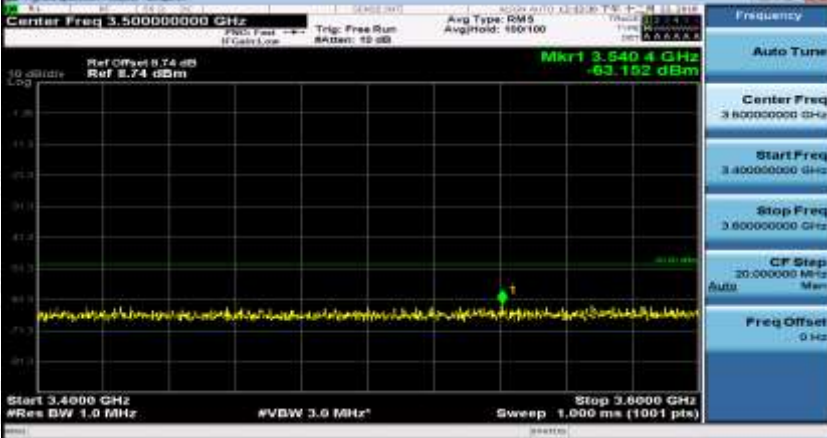
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Co-existence	
Co-existence	
Co-existence	

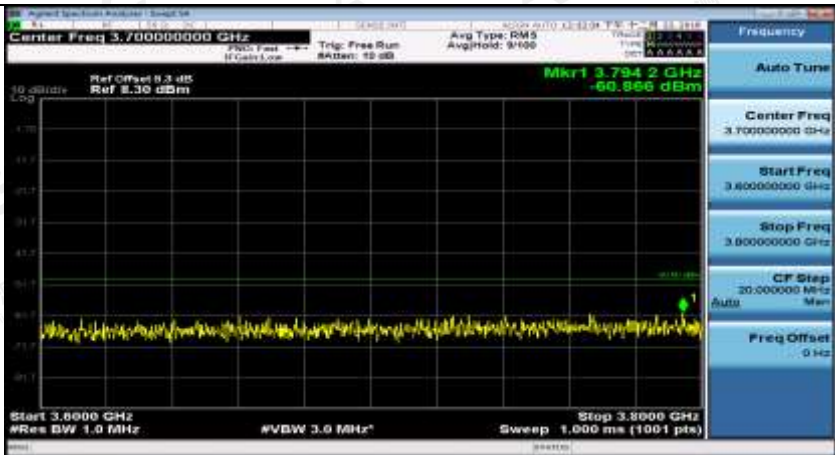
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



Co-existence	
Co-existence	
Co-existence	

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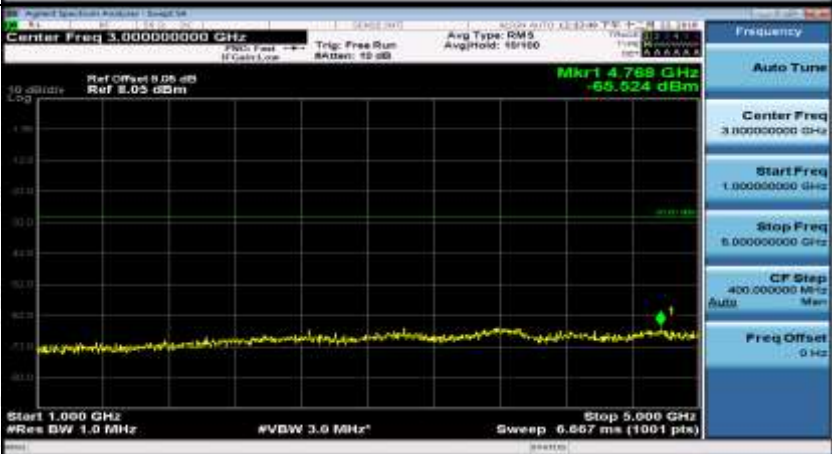
Co-existence	
Co-existence	
Co-existence	

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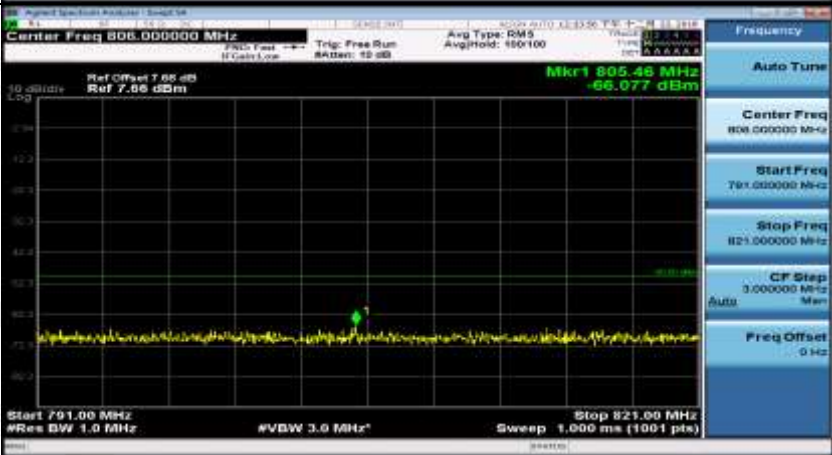
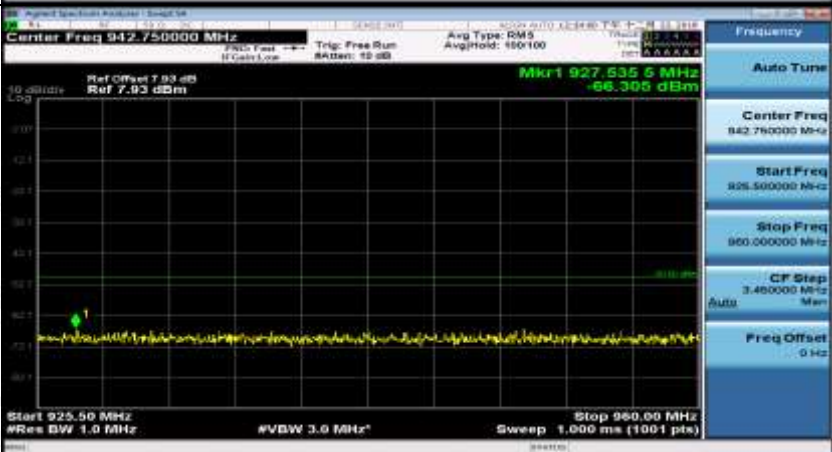
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

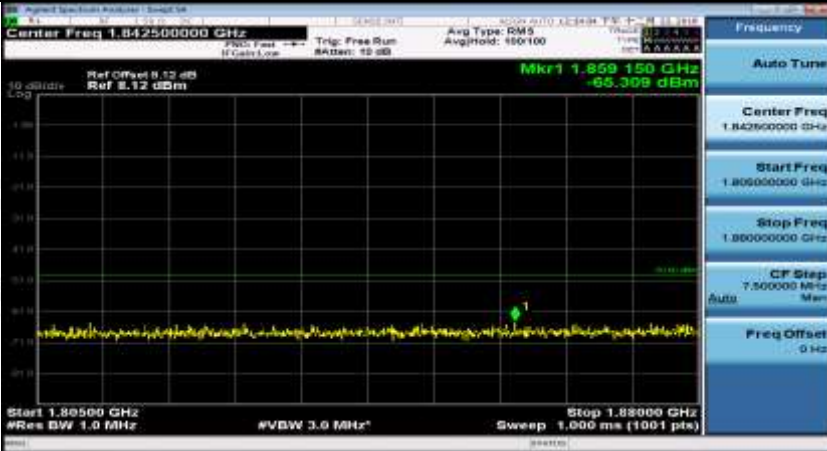
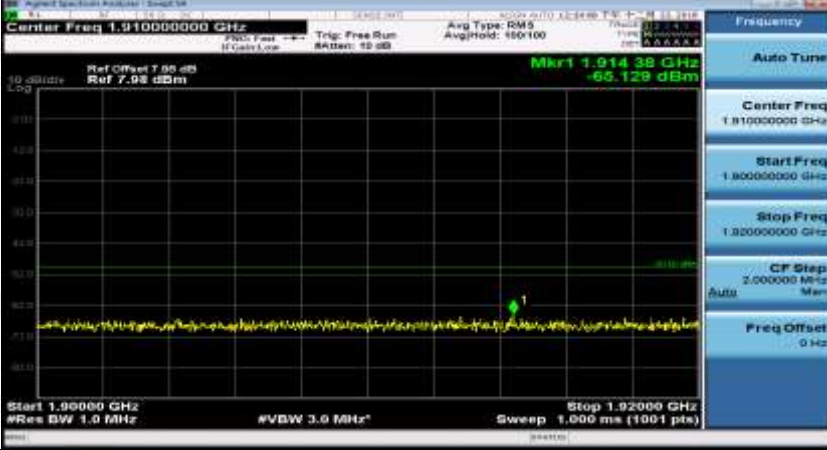

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General	
General	
General	


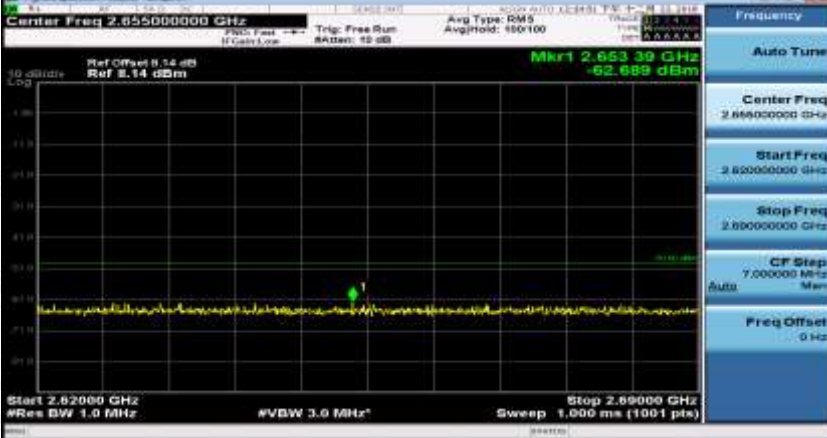
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General	
Co-existence	
Co-existence	


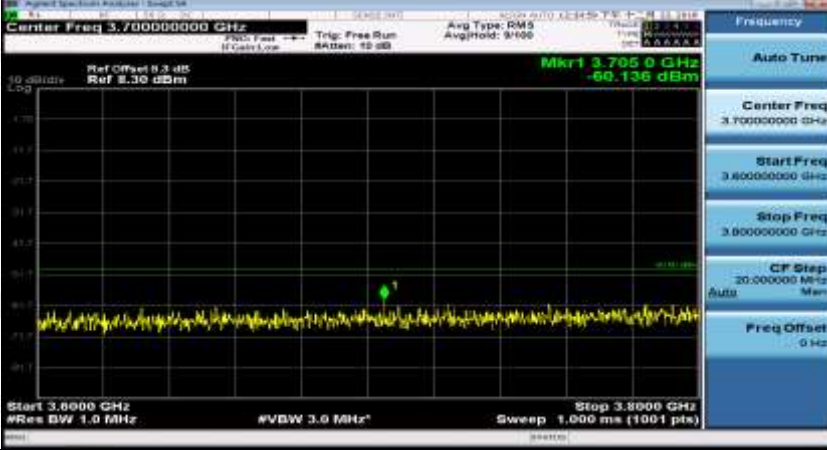
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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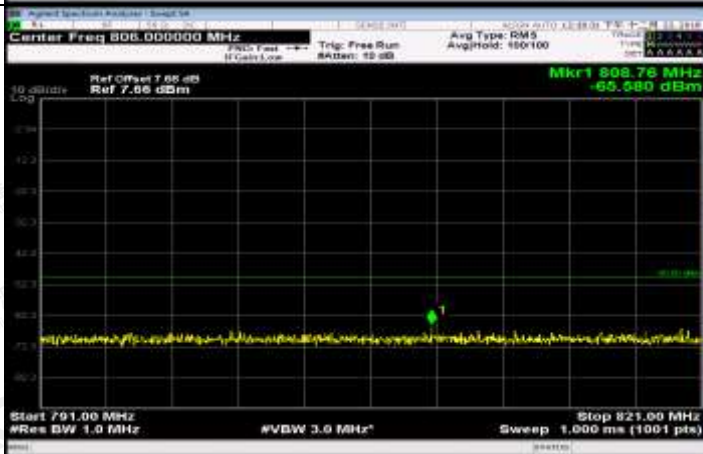
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_FullIRB#0	
General	

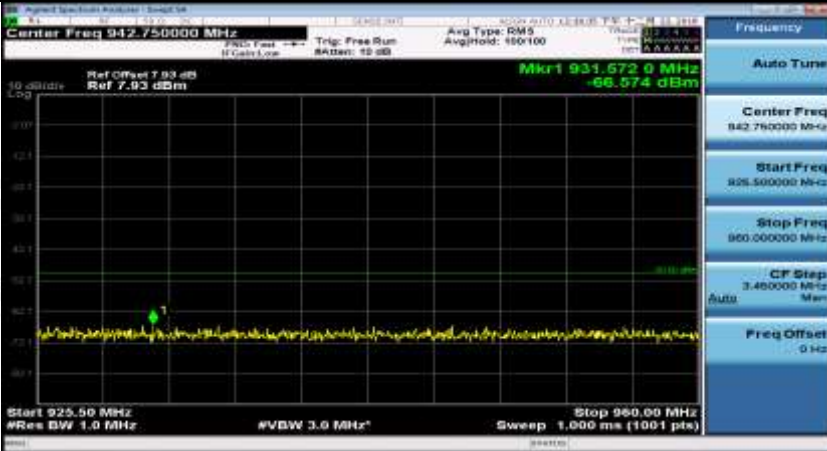
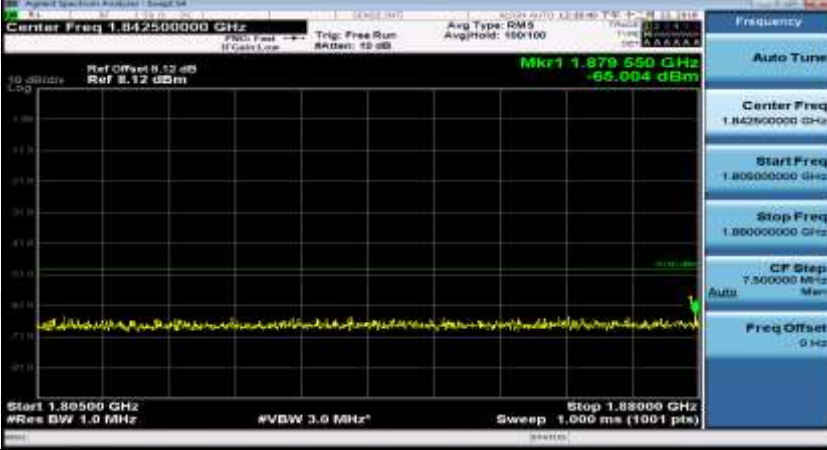
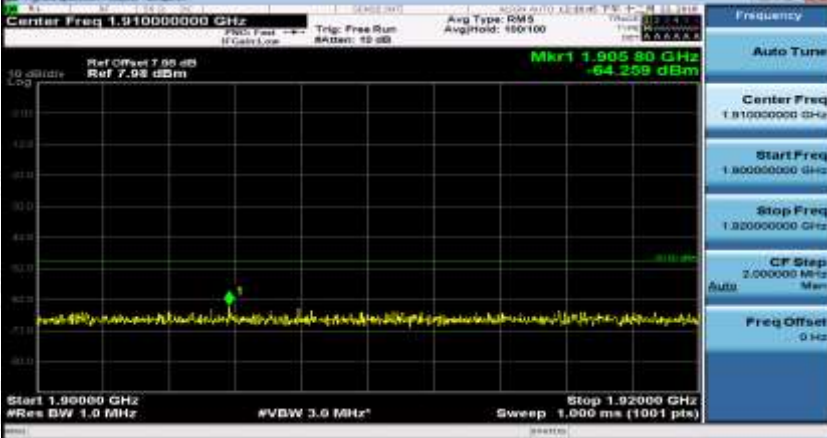
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General			
General			
General			

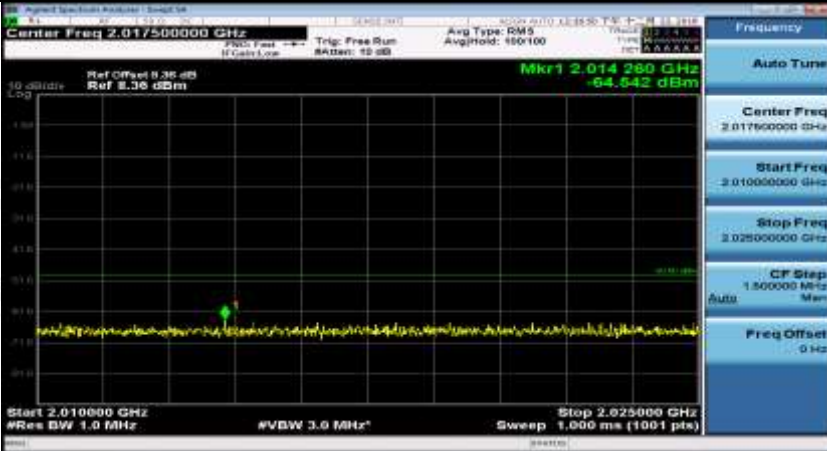
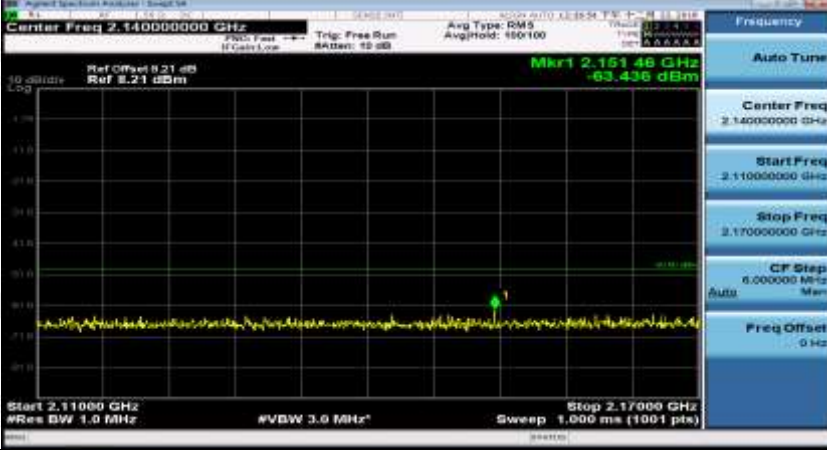
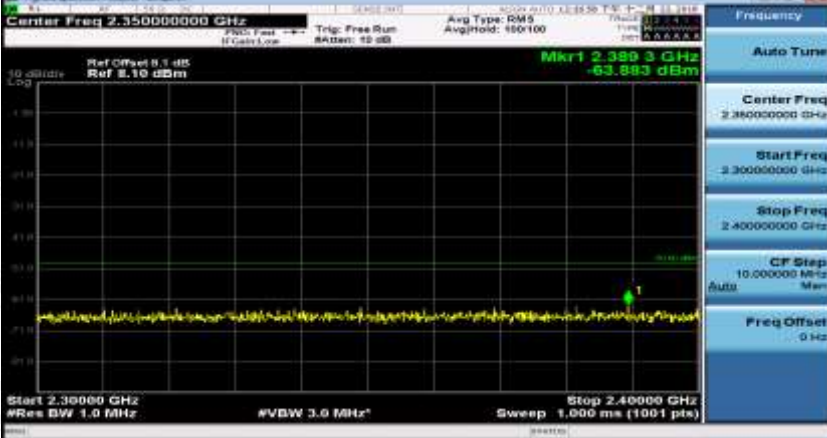
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.00000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 781.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

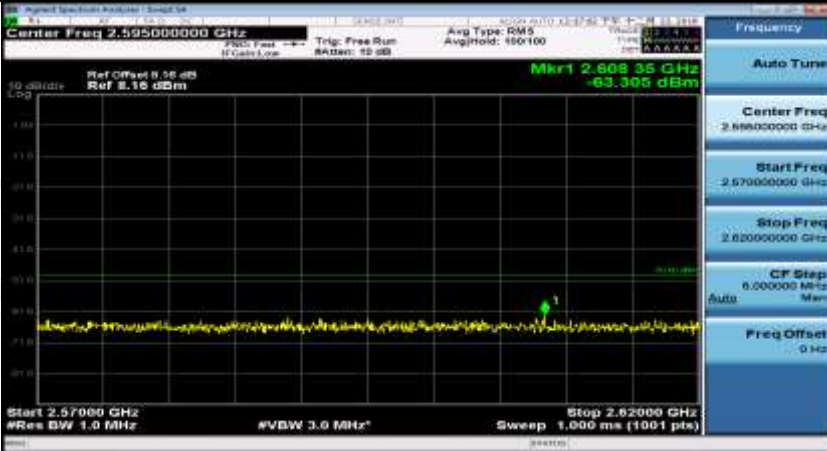
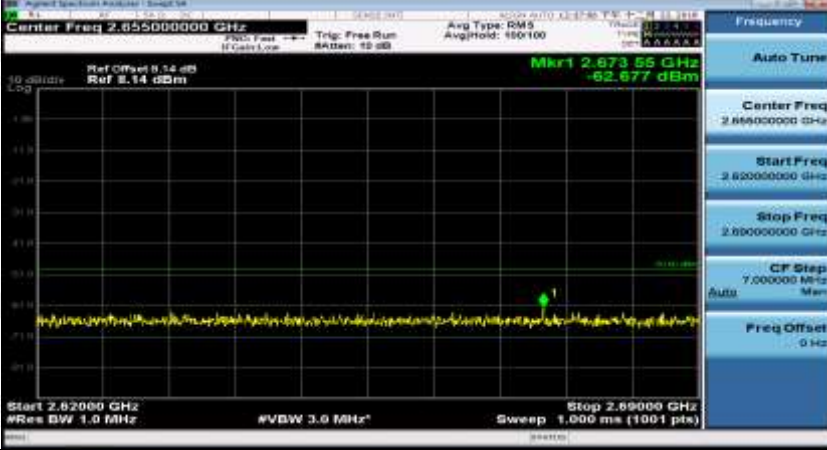
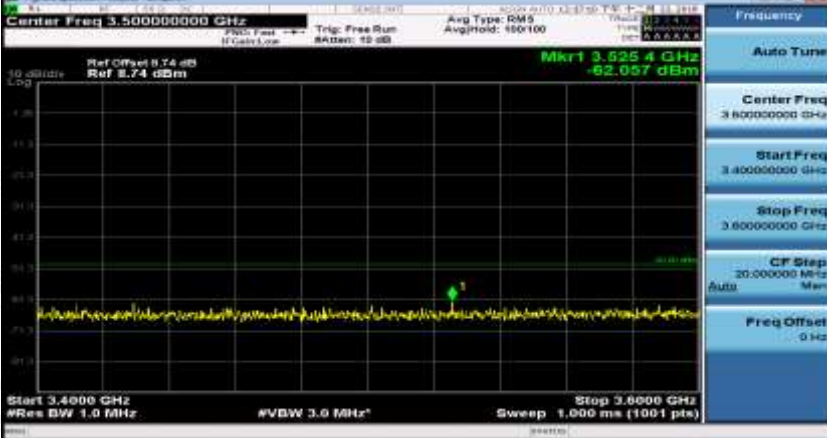
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Co-existence	
Co-existence	
Co-existence	

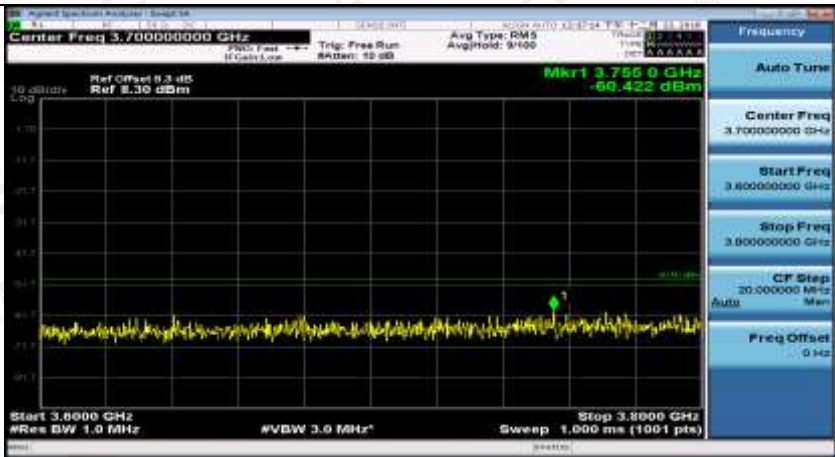
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Co-existence	
Co-existence	
Co-existence	


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Co-existence	
Co-existence	
Co-existence	


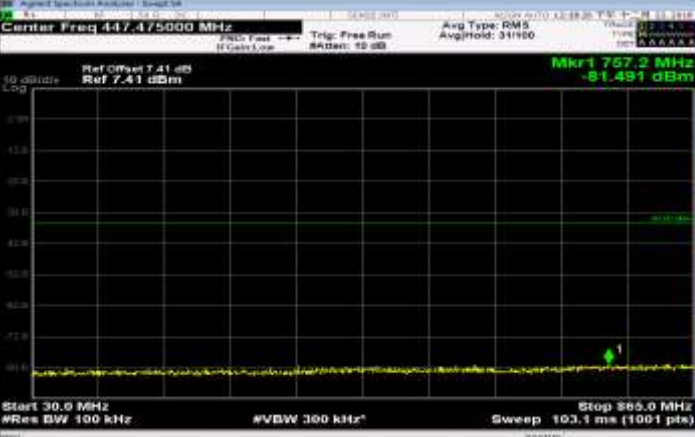
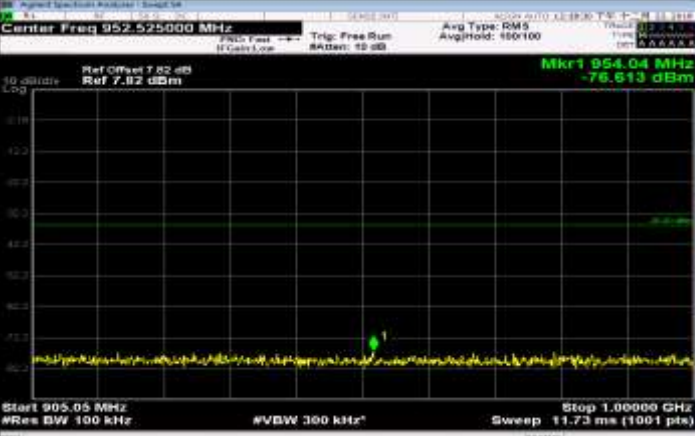
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Co-existence	
Additional	NA

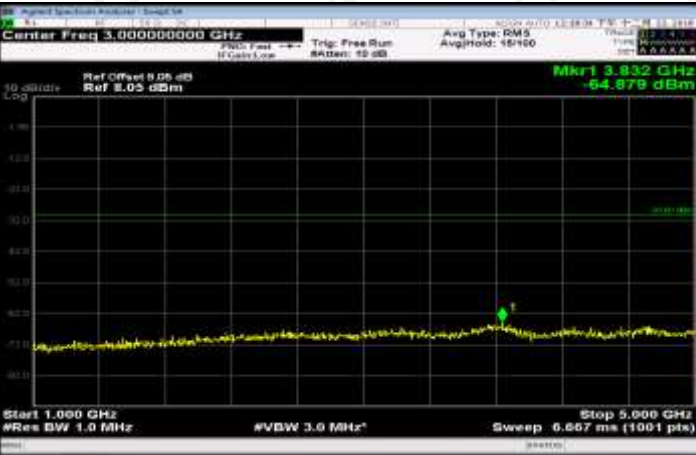

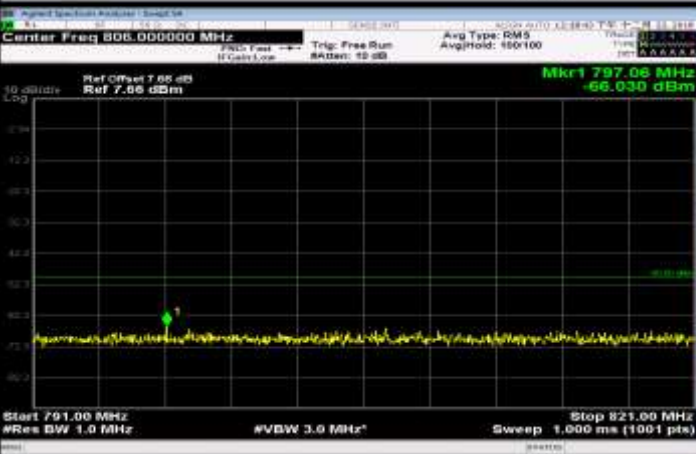
Channel Bandwidth= (10 MHz)

Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_1RB#0	
General	

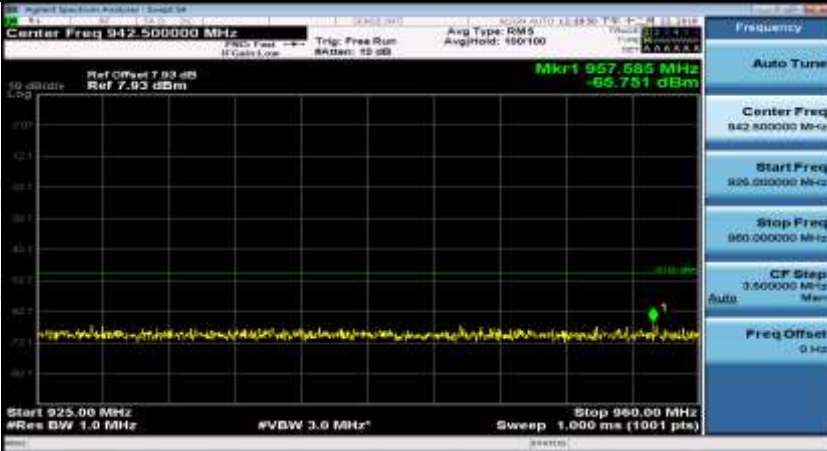
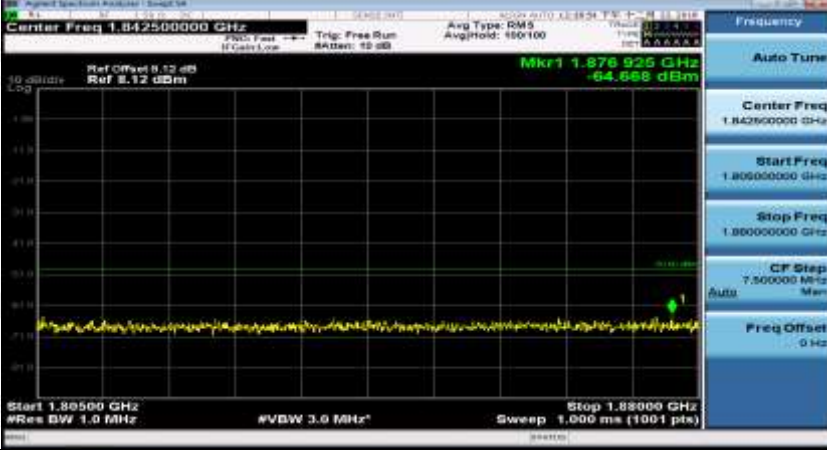
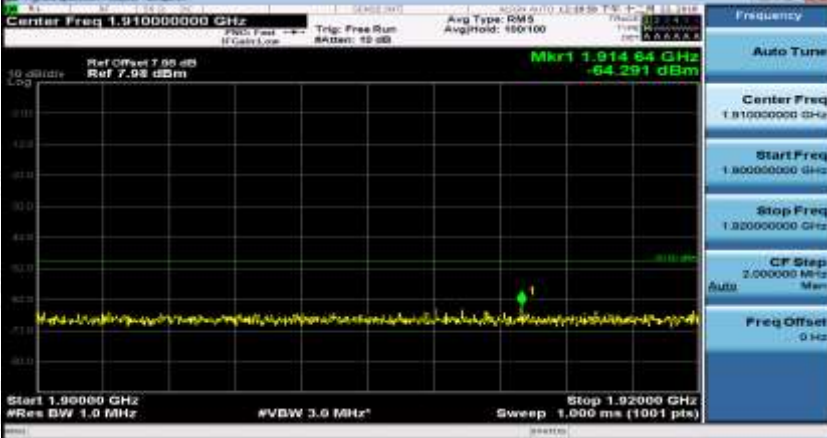
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General			
General			
General			


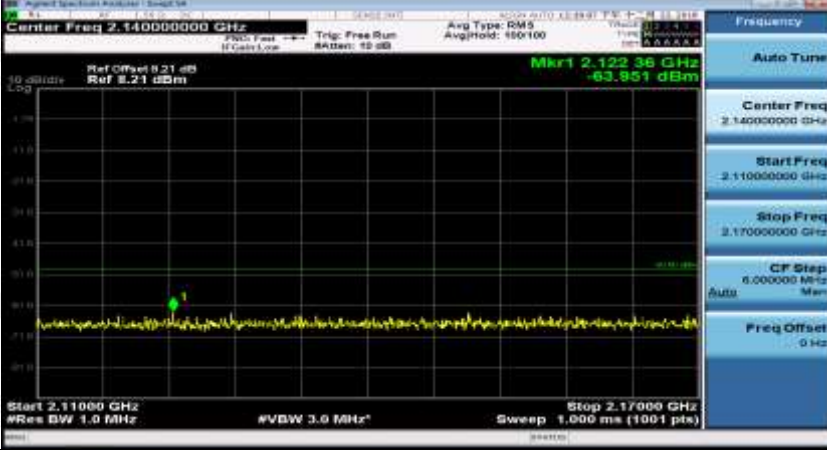
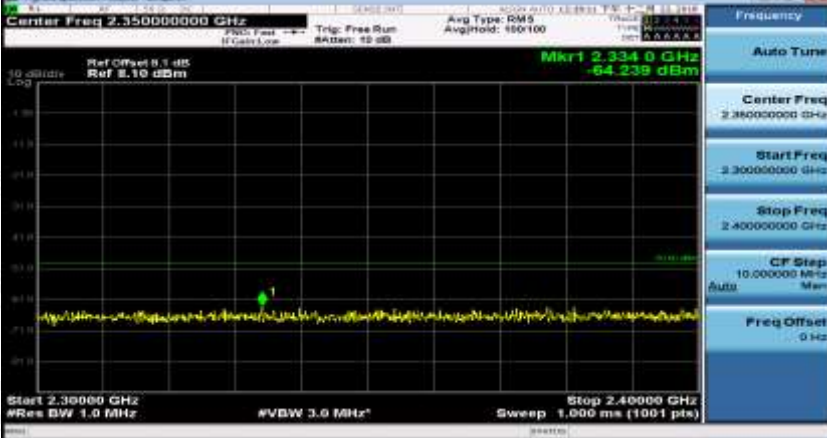
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.00000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

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Co-existence	
Co-existence	
Co-existence	


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Co-existence	
Co-existence	
Co-existence	

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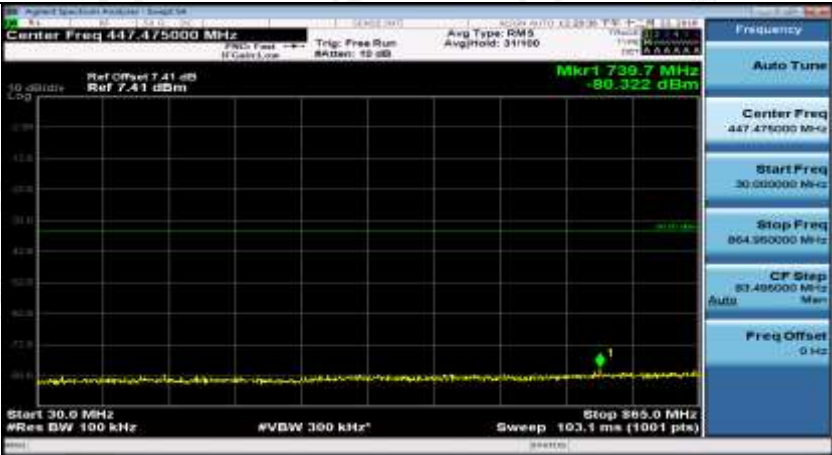
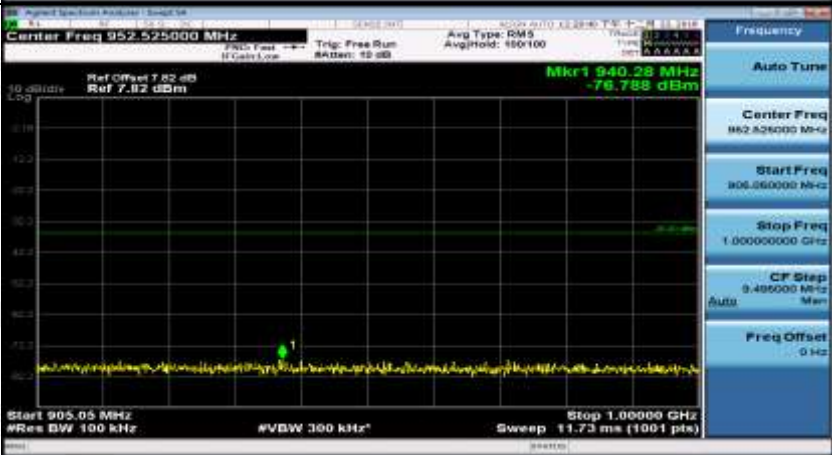
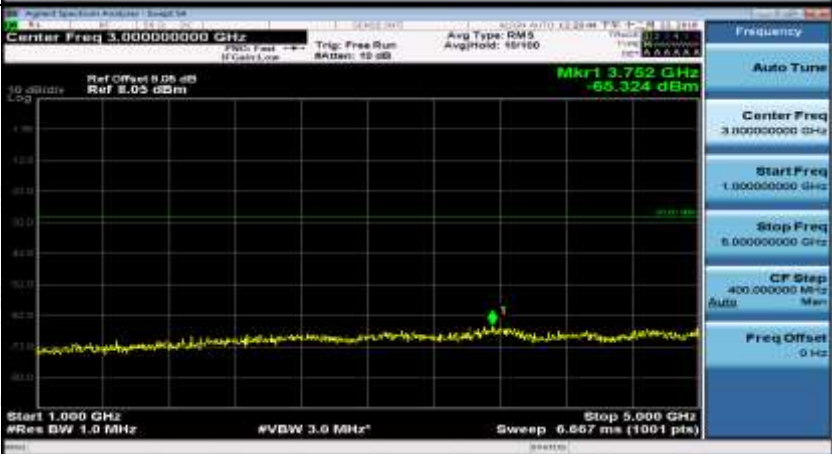
Co-existence	
Co-existence	
Co-existence	

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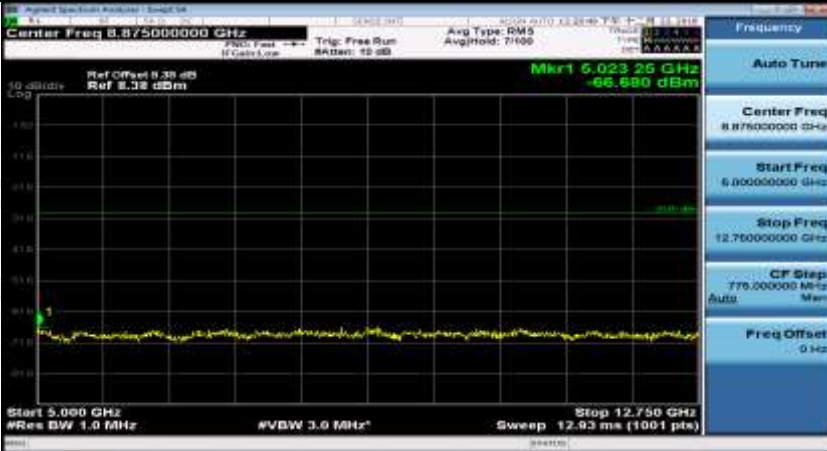
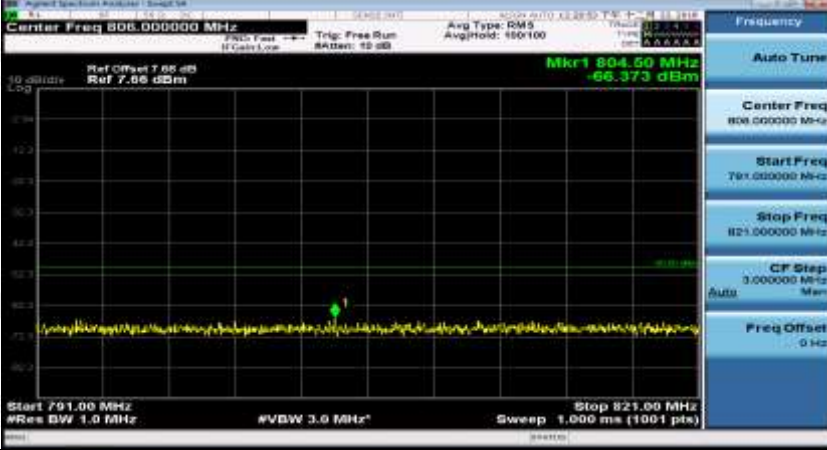
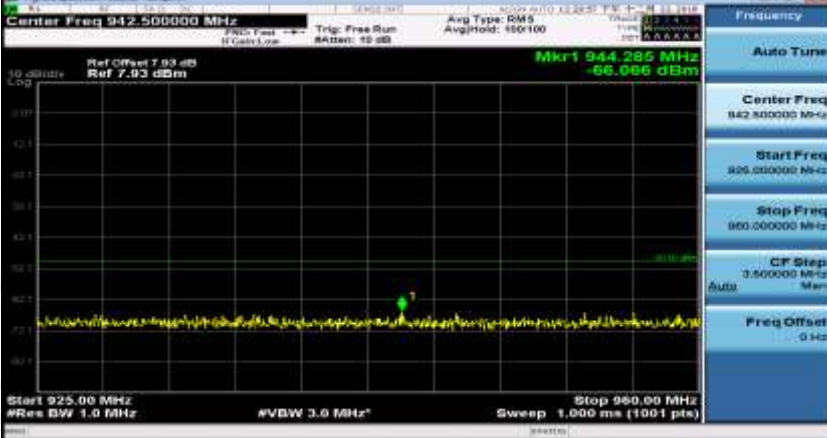
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_1RB#max	
General	
General	

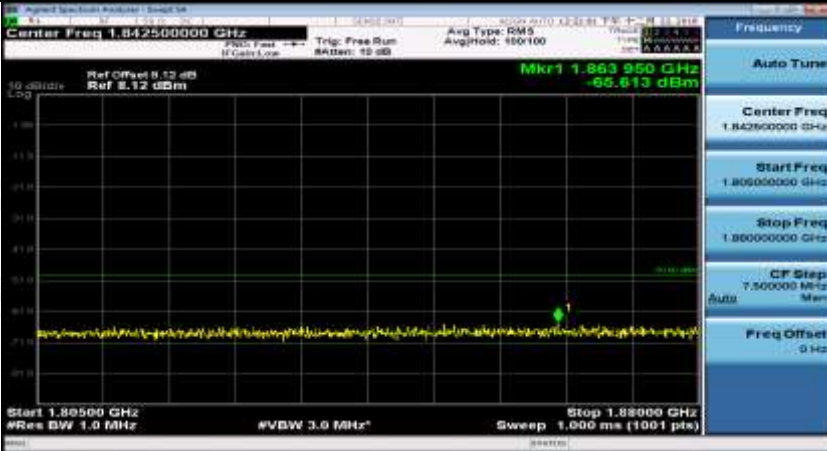
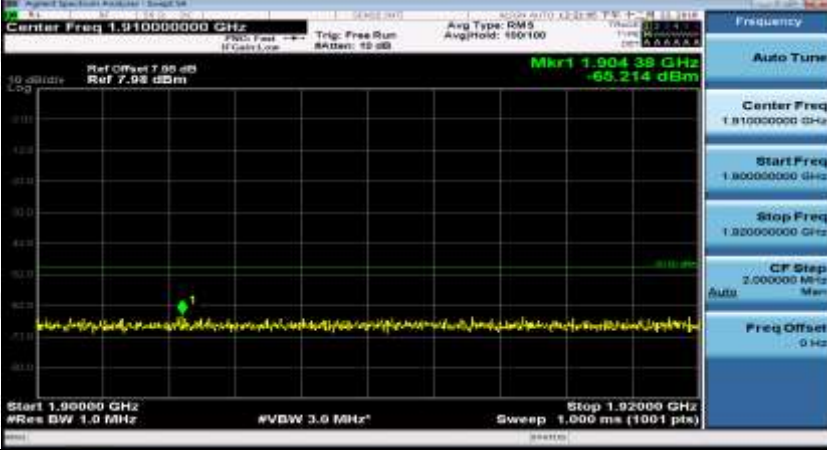
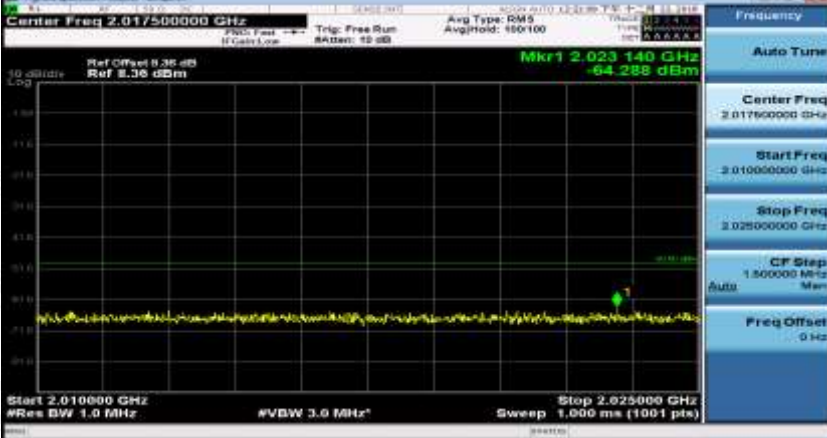
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General	
General	
General	


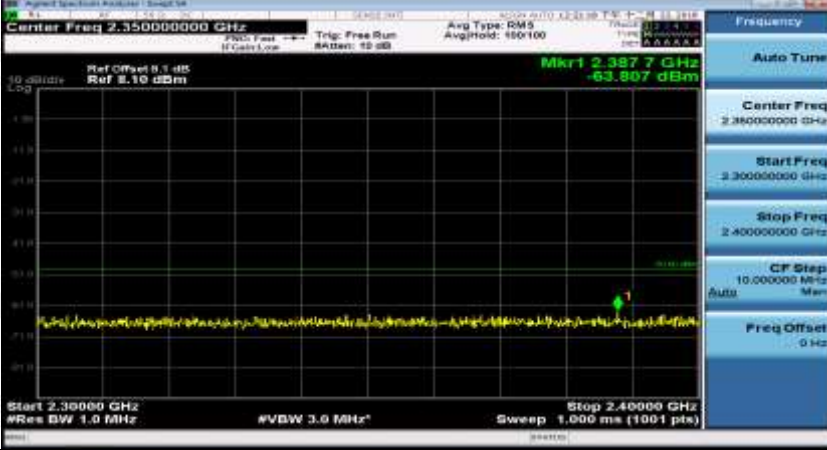
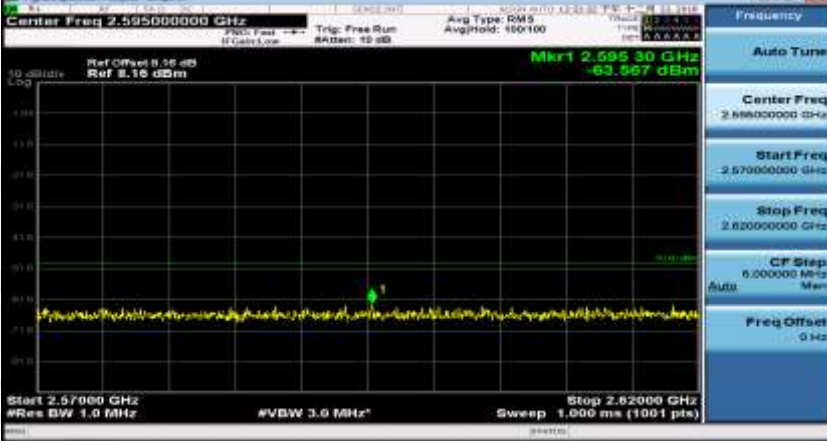
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General	
Co-existence	
Co-existence	

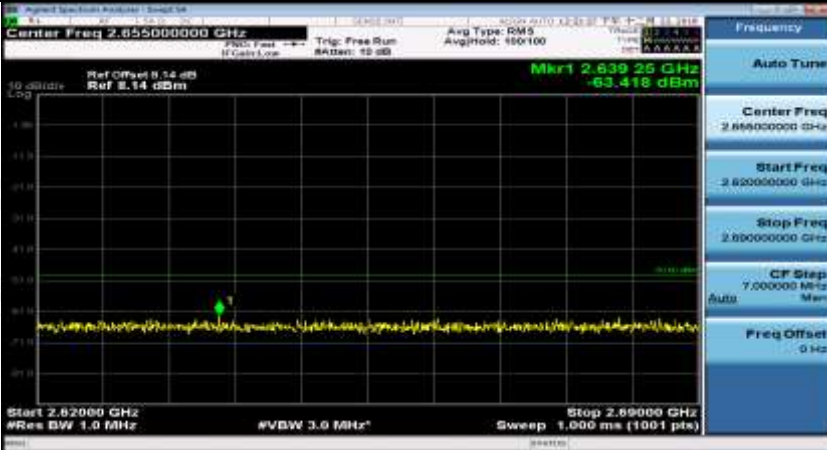
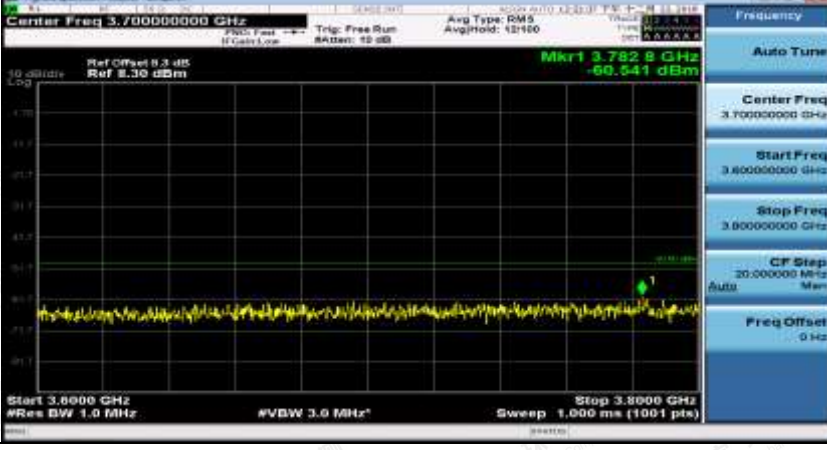
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Co-existence	
Co-existence	
Co-existence	

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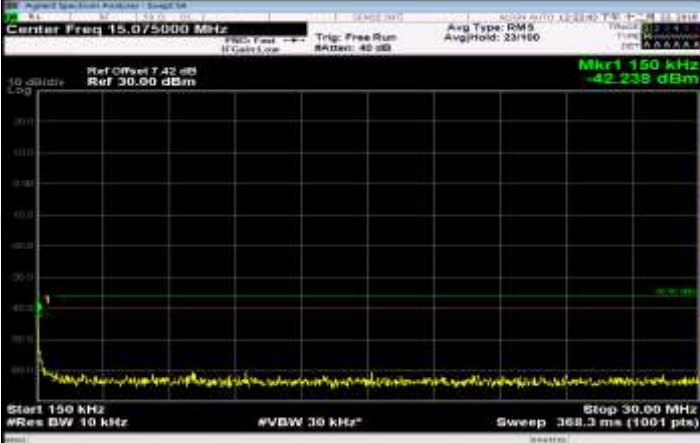
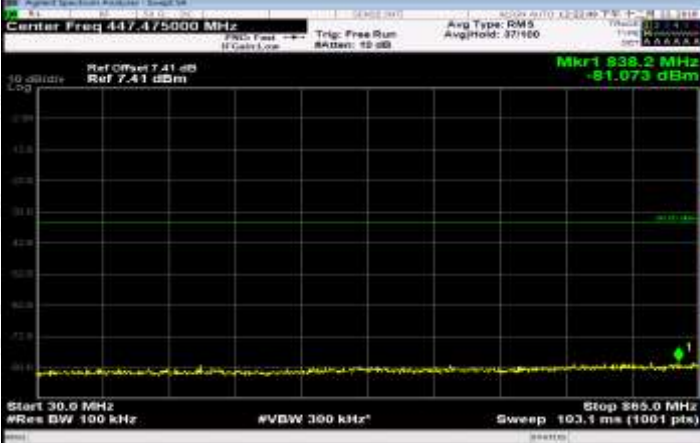
Co-existence	
Co-existence	
Co-existence	

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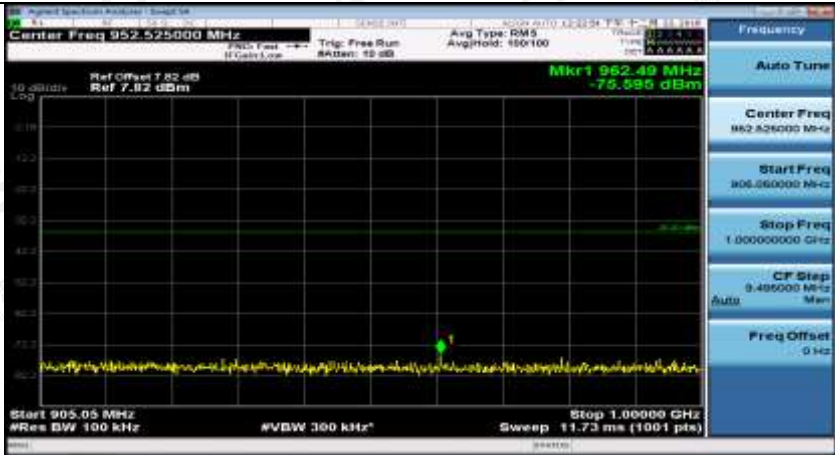

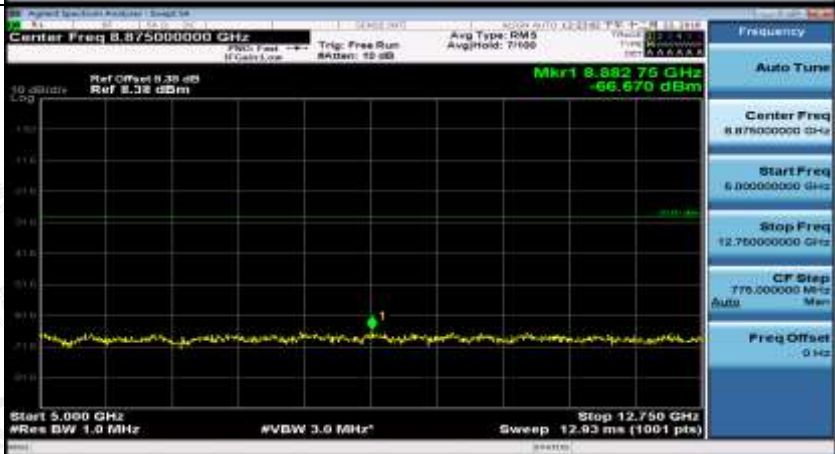
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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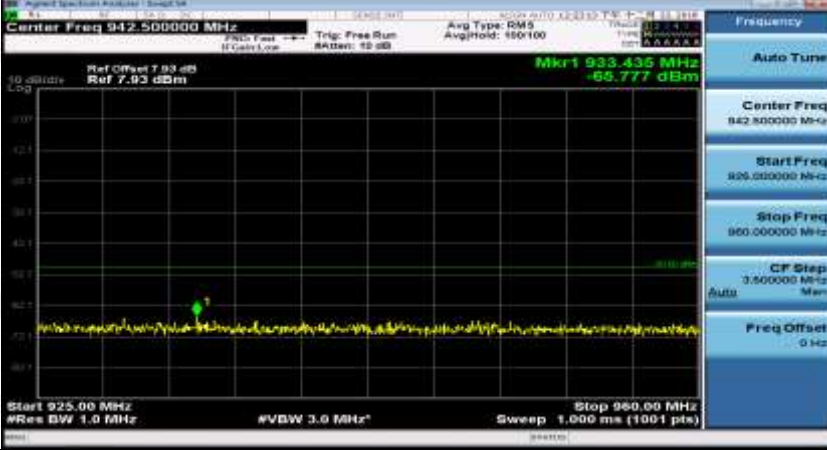
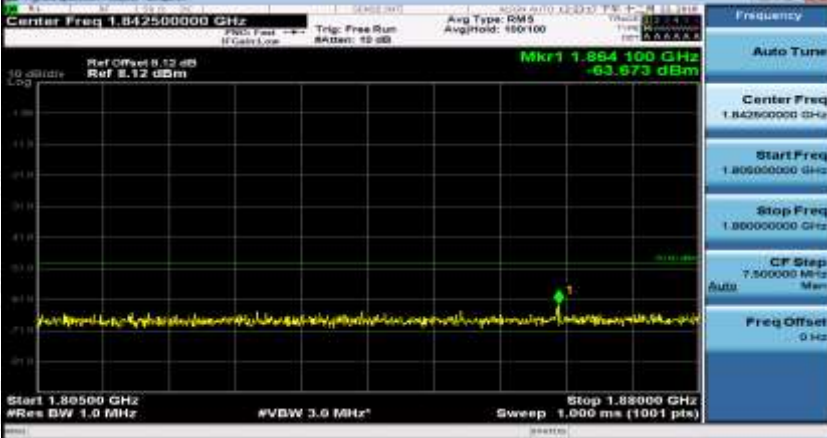
Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_FullRB#0

General	
General	
General	

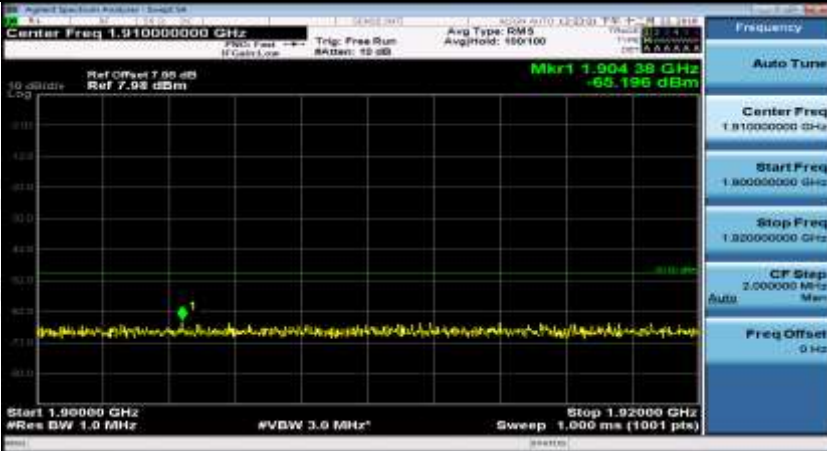
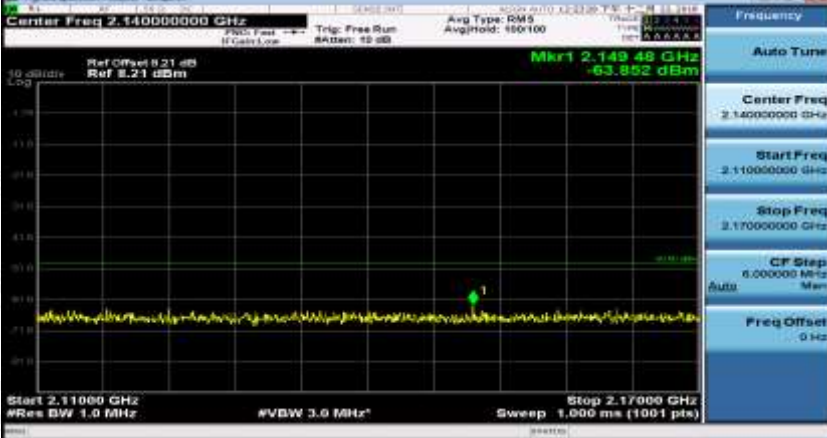
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General			
General			
General			

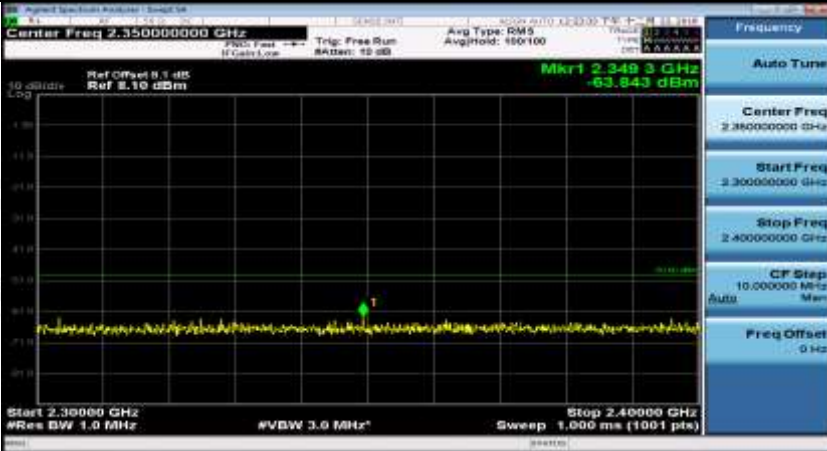
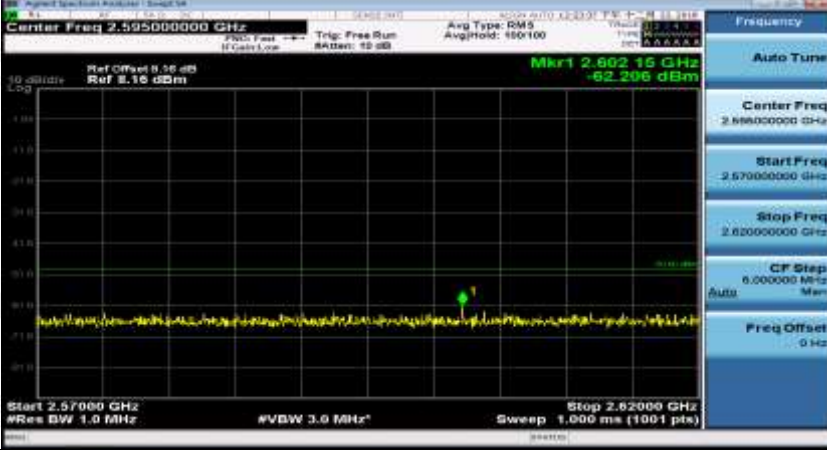
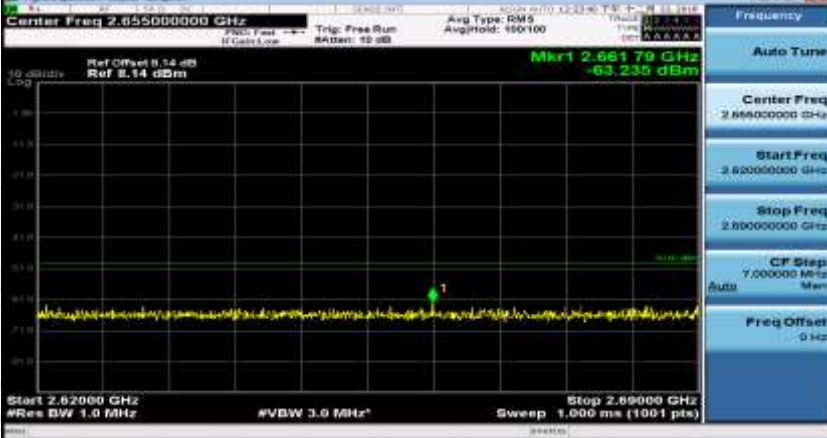
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Co-existence	
Co-existence	
Co-existence	

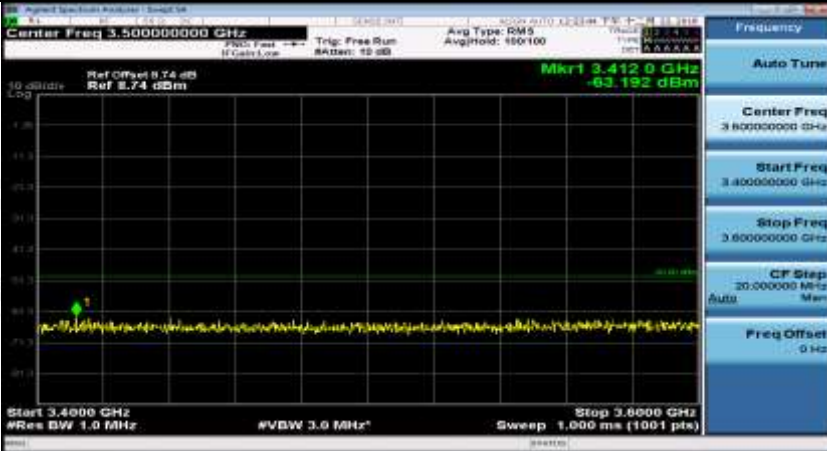
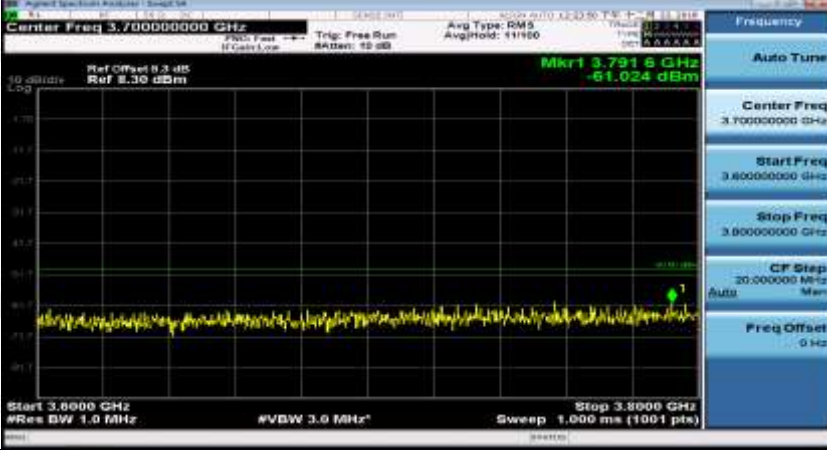
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Co-existence	
Co-existence	
Co-existence	

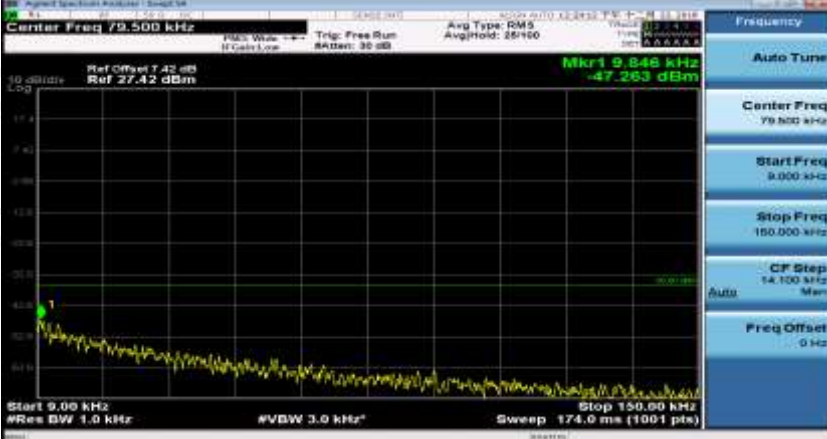
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Co-existence	
Co-existence	
Co-existence	

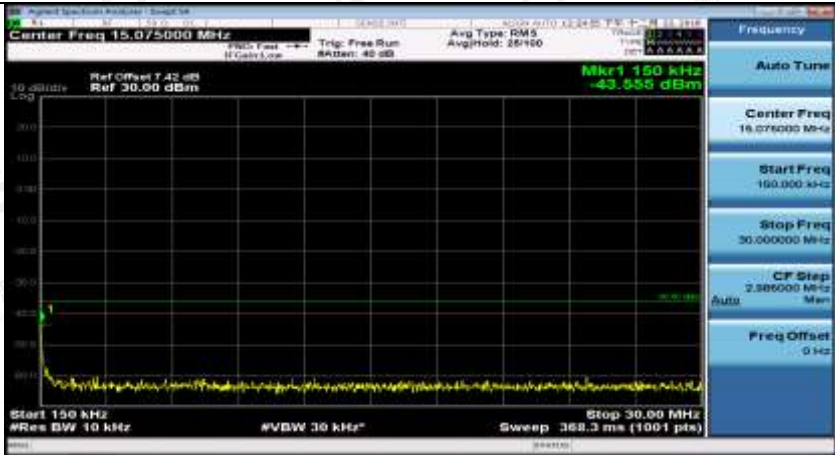
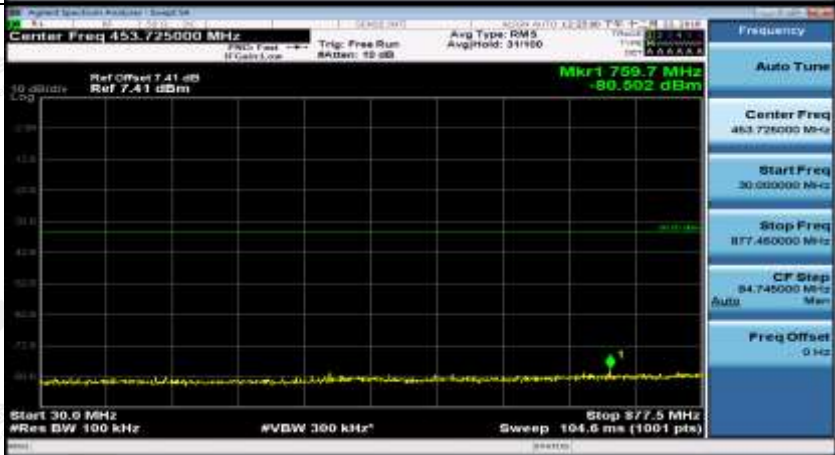

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Co-existence	
Co-existence	
Additional	NA

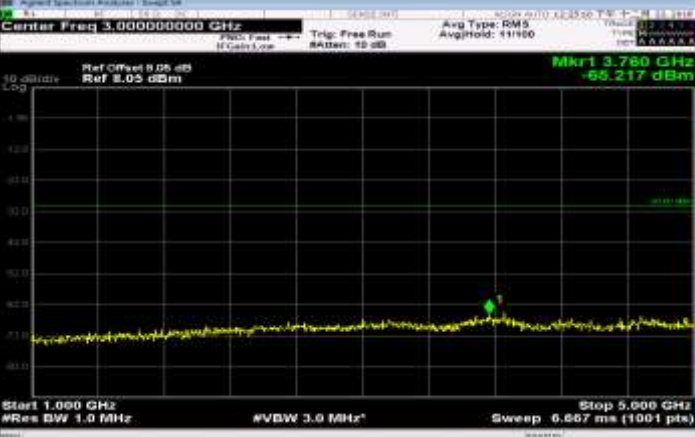
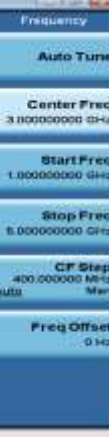

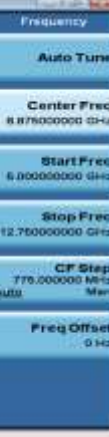
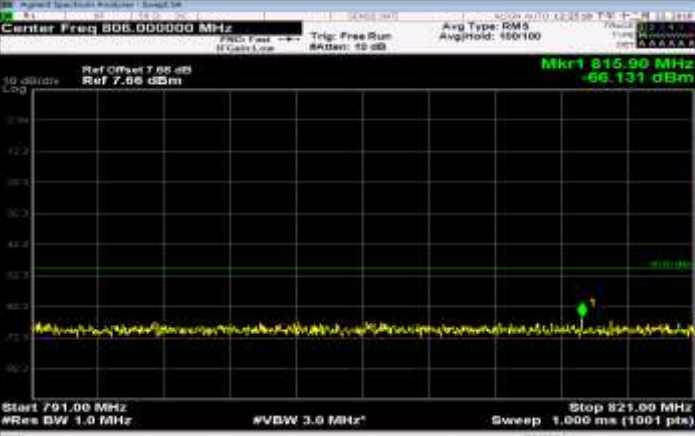
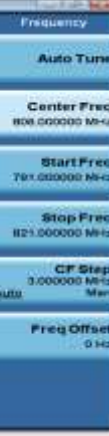
Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_1RB#0

General	
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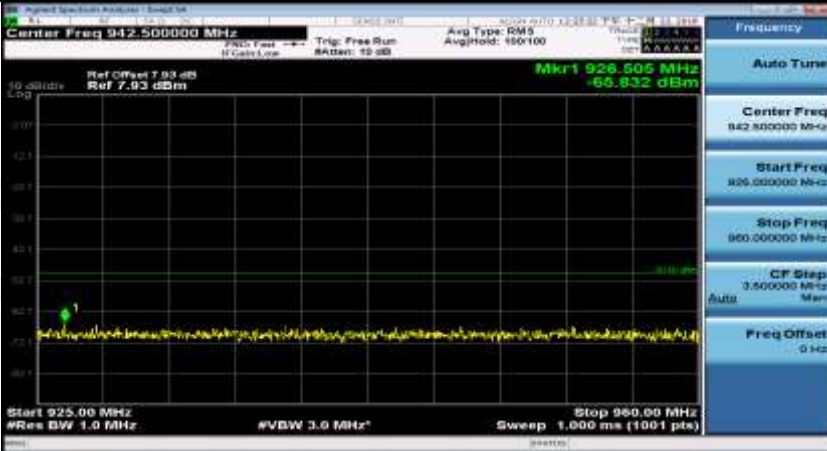
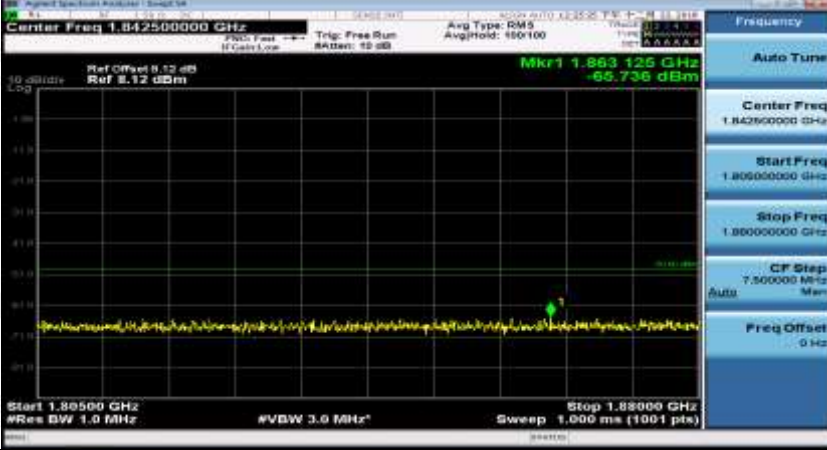
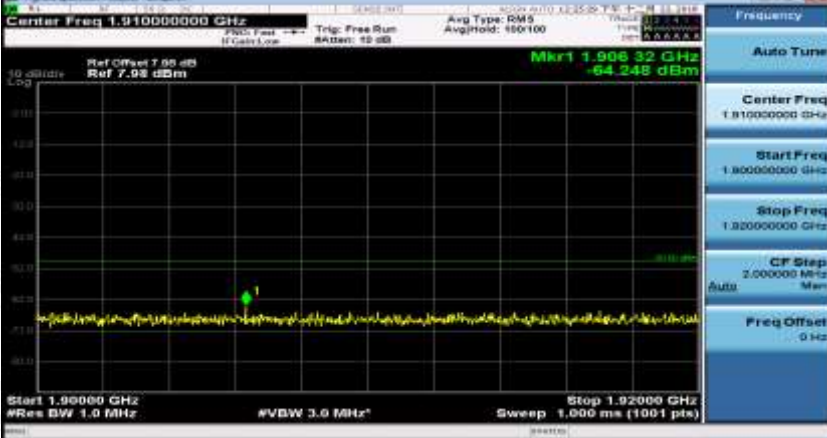
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General			
General			
General			

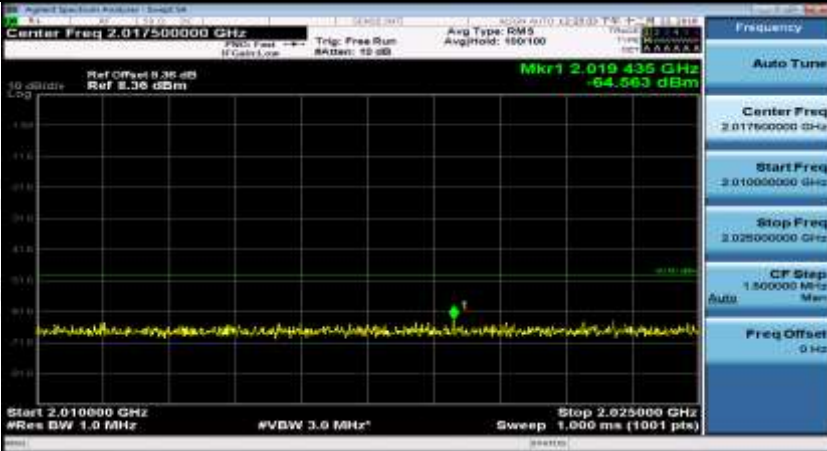

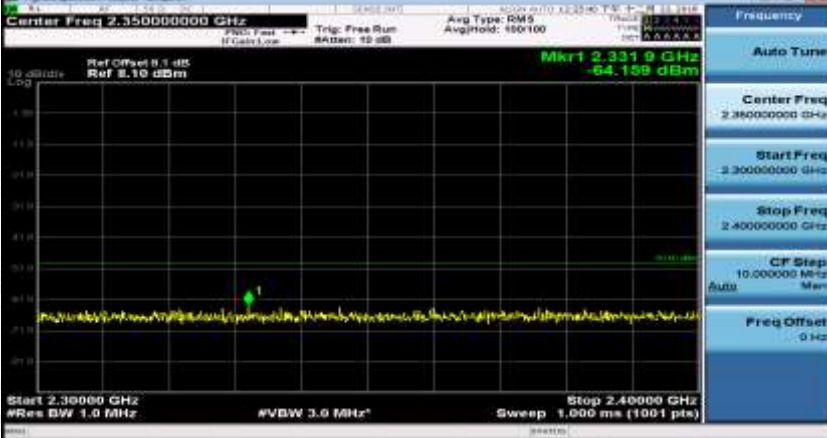
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General			
General			
Co-existence			

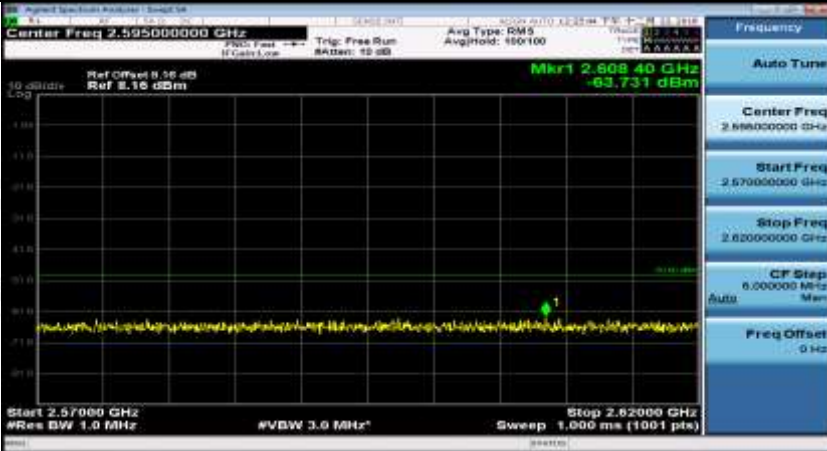
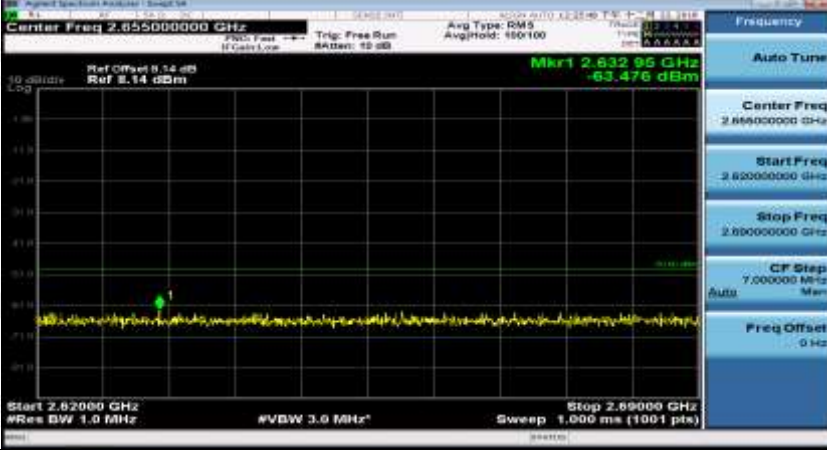
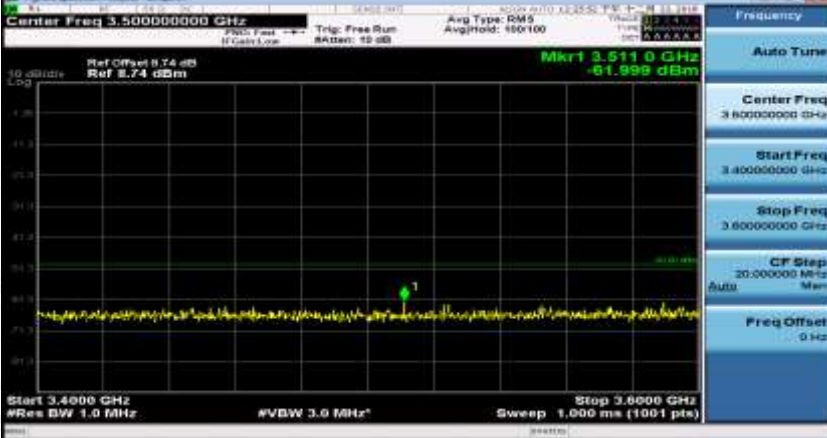
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Co-existence	
Co-existence	
Co-existence	

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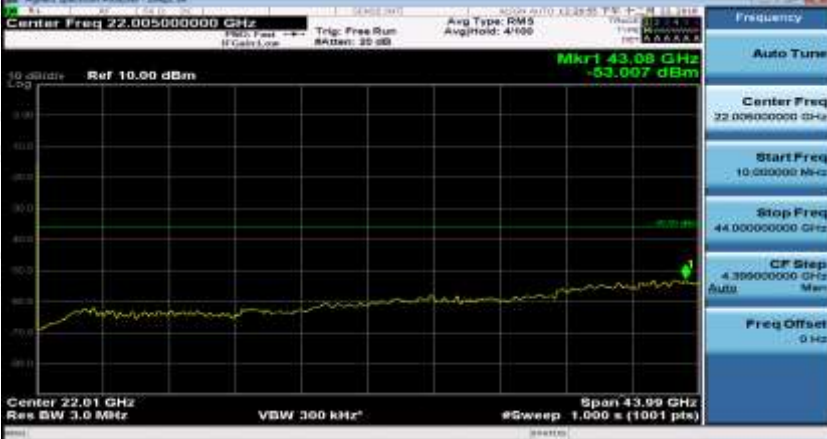
Co-existence	
Co-existence	
Co-existence	

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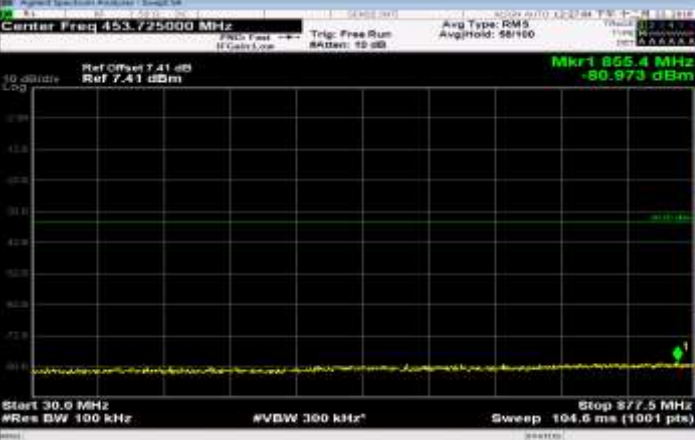
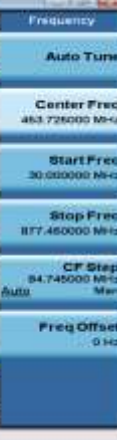
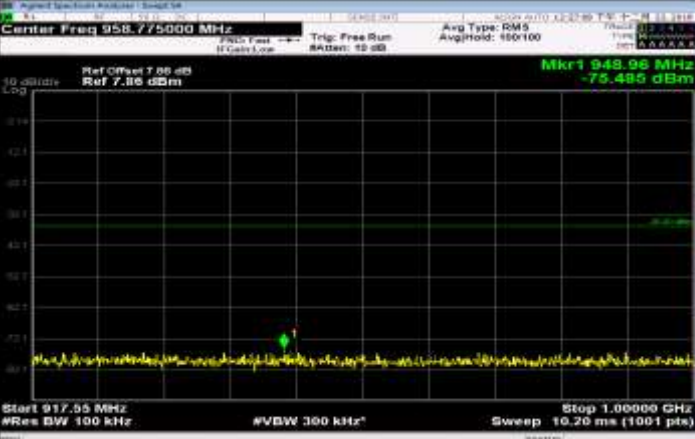
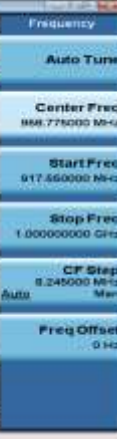

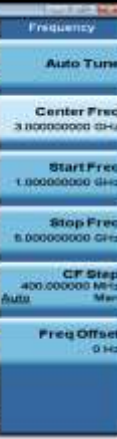
Co-existence	
Co-existence	
Co-existence	

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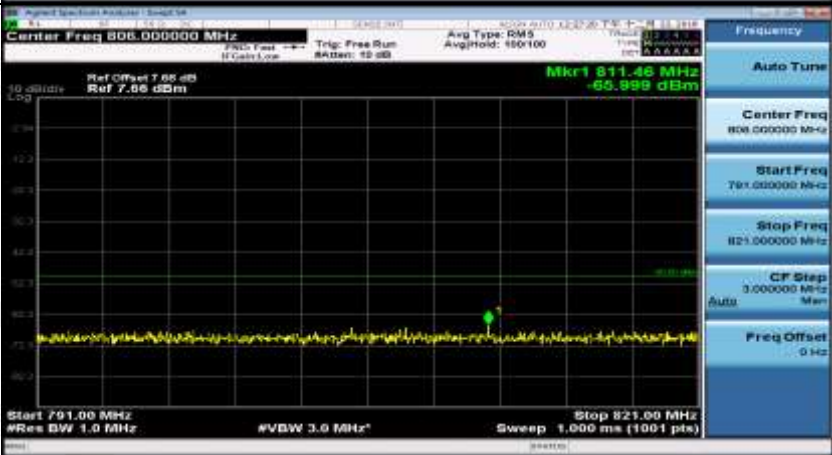
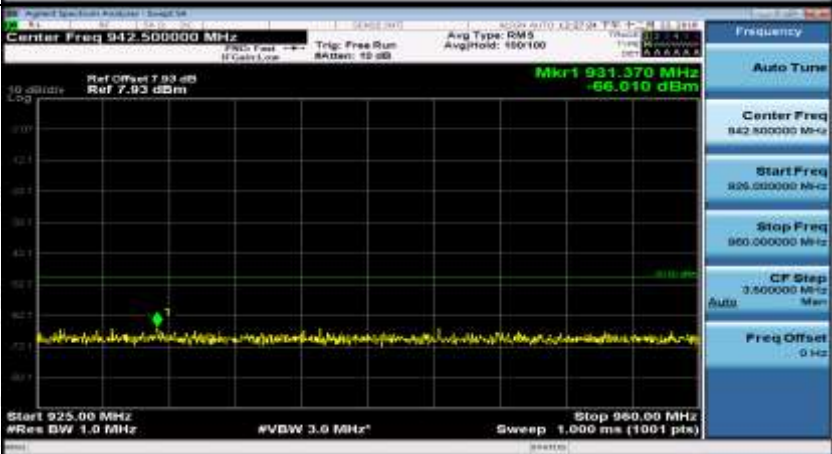
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_1RB#max	
General	
General	

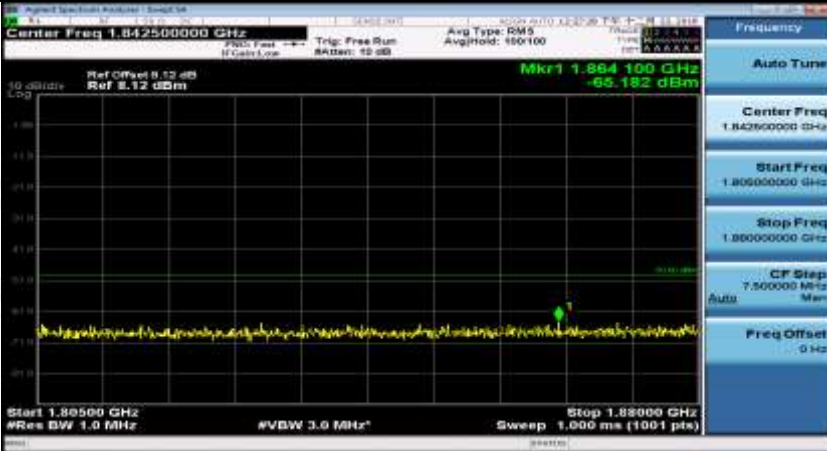
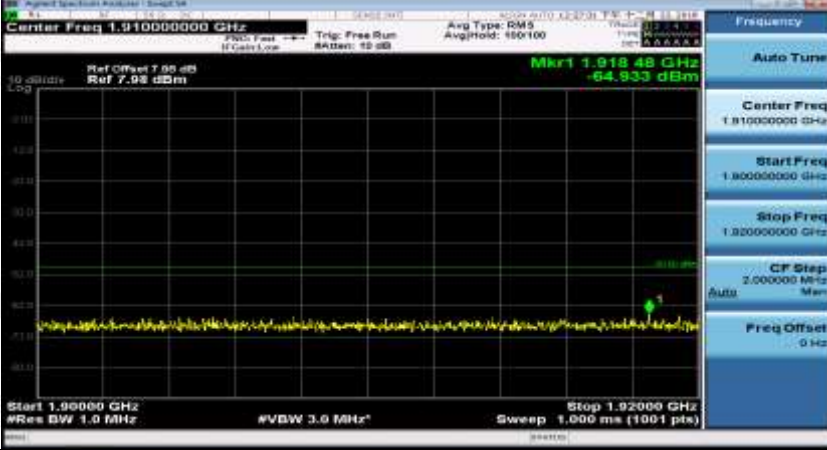
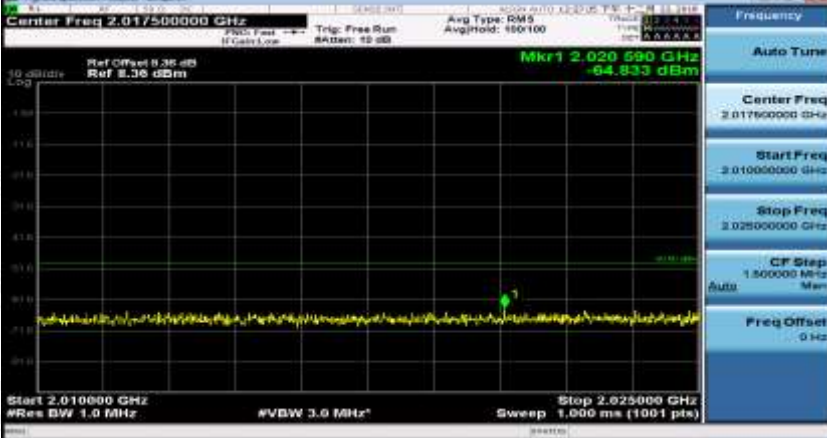
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General			
General			
General			

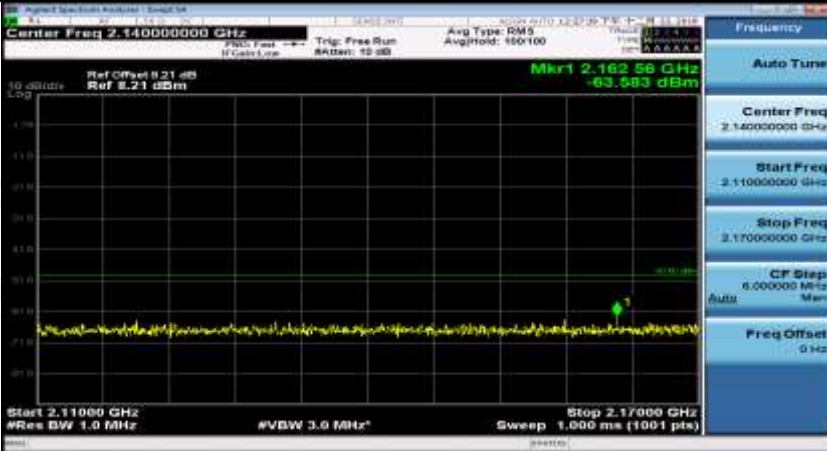
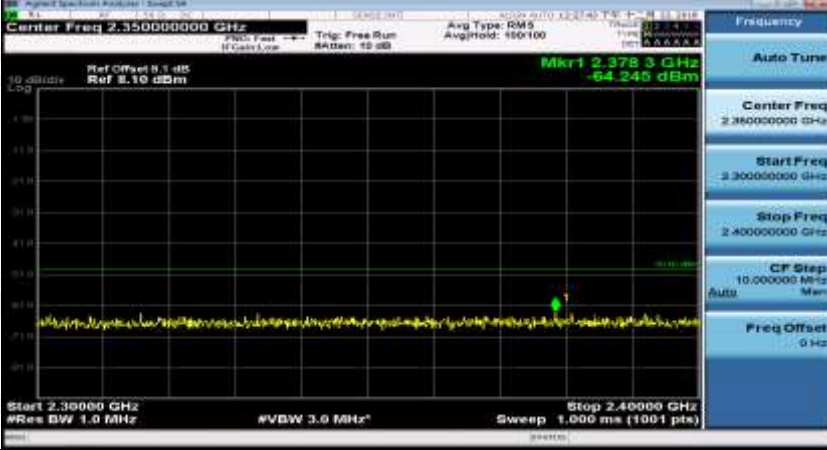
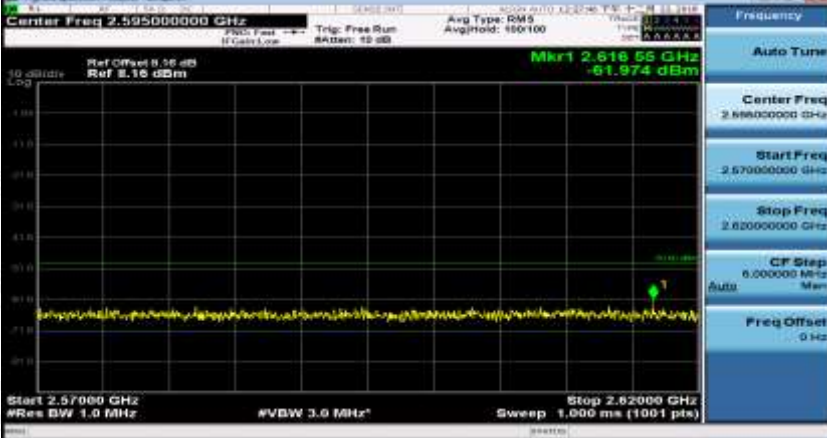
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General	
Co-existence	
Co-existence	

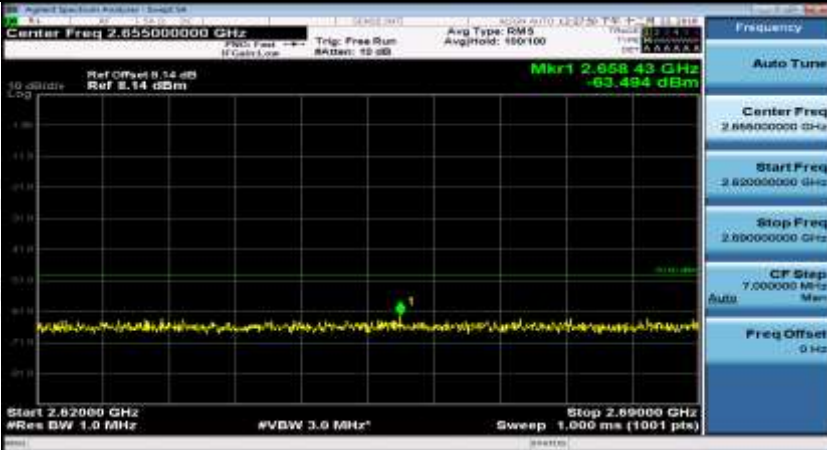
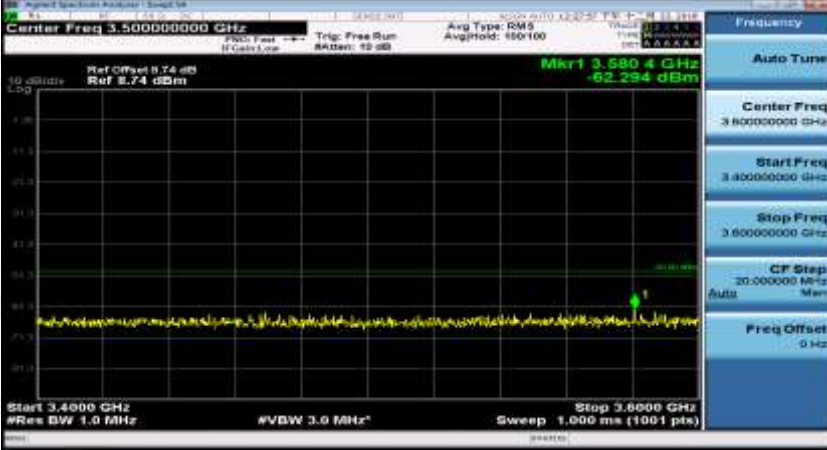
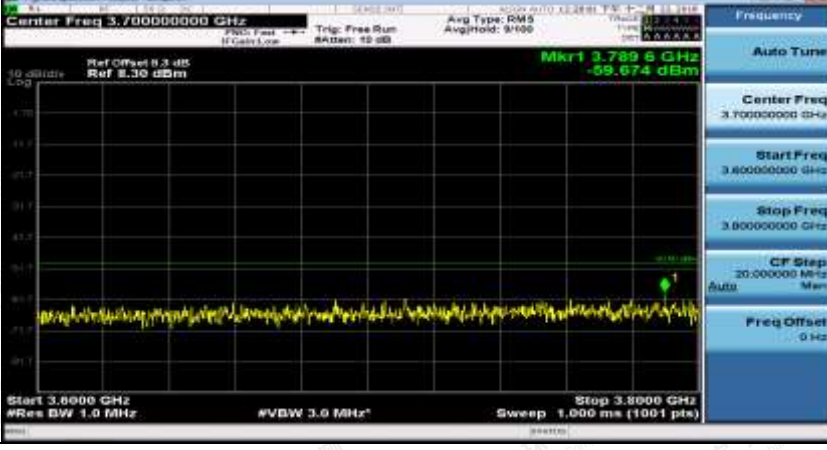
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Co-existence	
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Co-existence	

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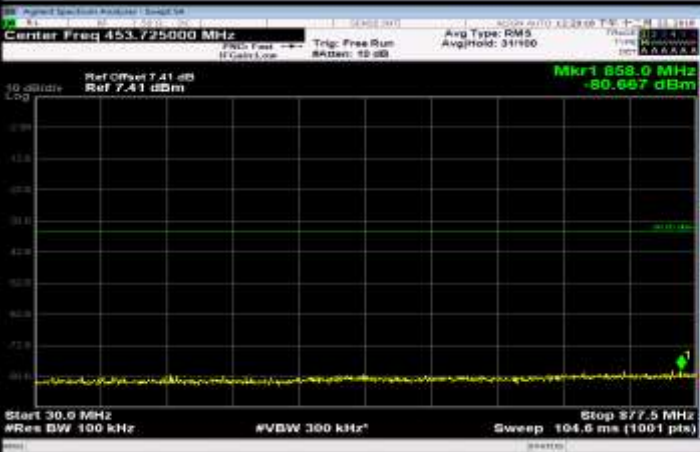
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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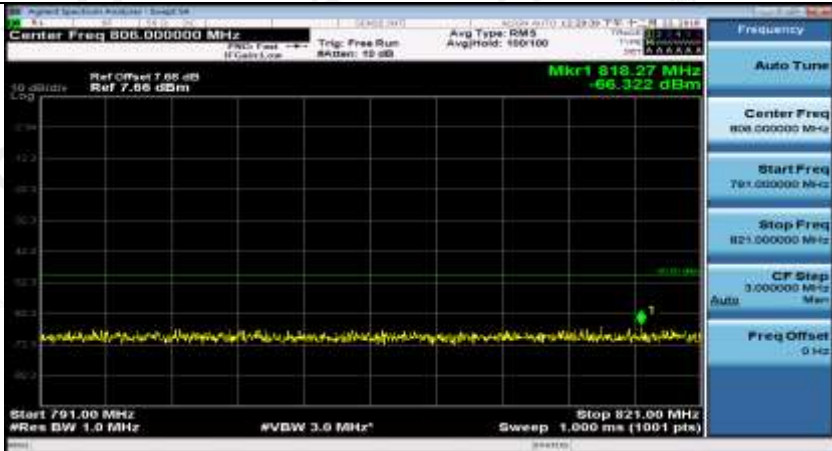
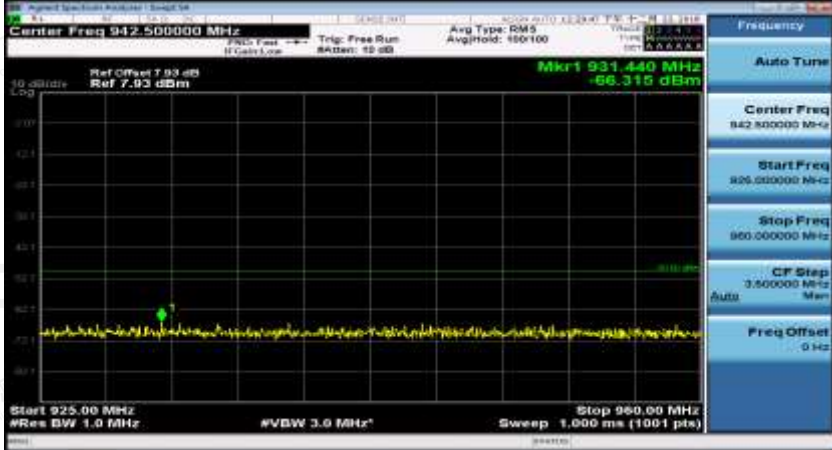

Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_FullRB#0

General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 9.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.500000 MHz</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 453.725000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 877.450000 MHz</p> <p>CF Step 84.745000 MHz</p> <p>Freq Offset 0 Hz</p>

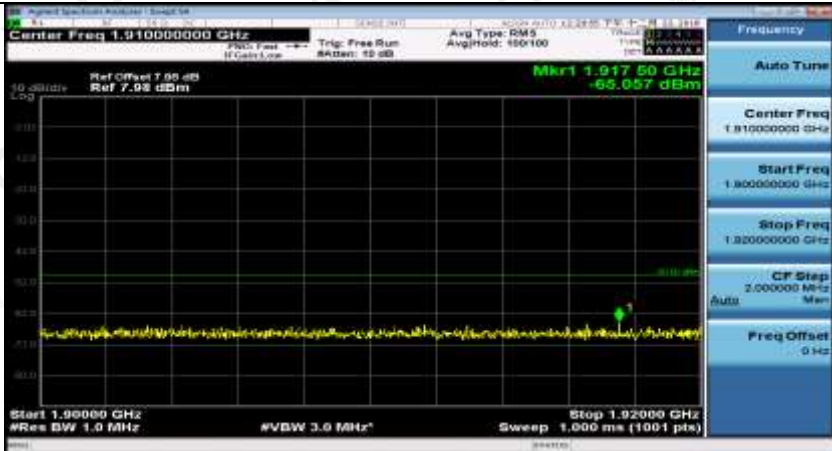

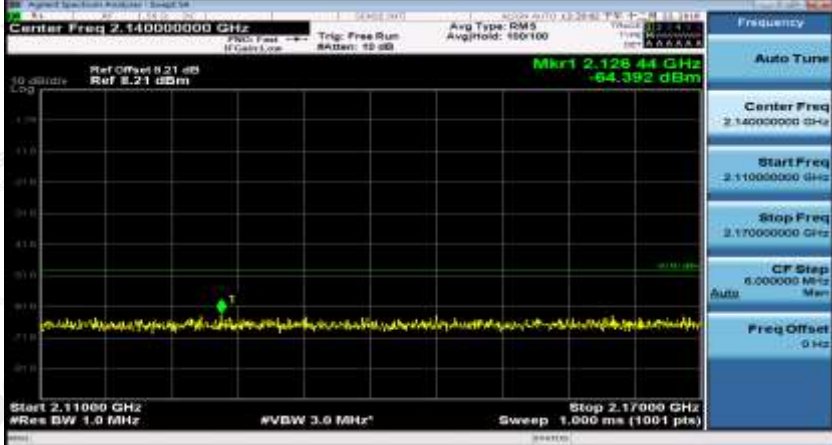
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General		
General		
General		

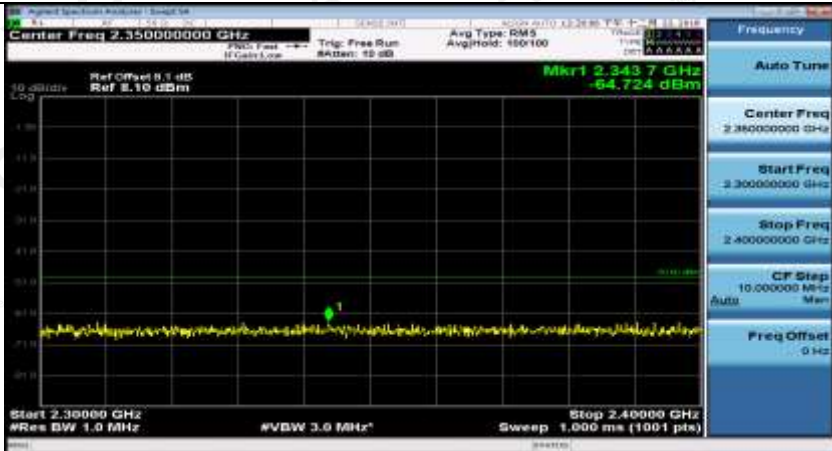
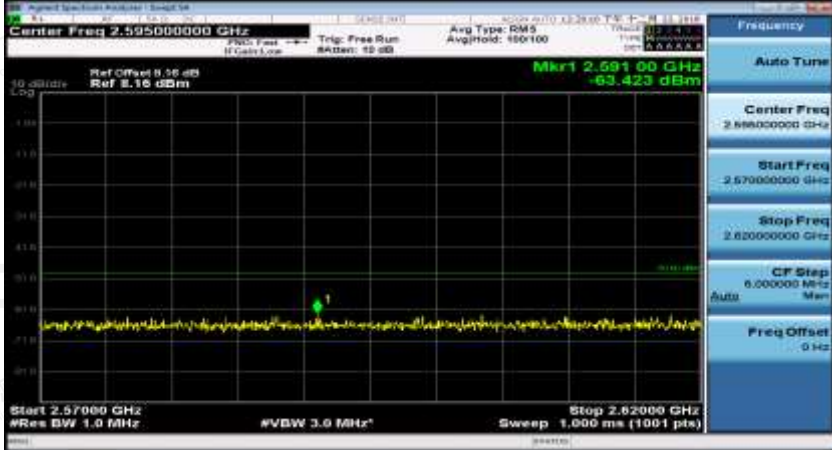

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Co-existence	
Co-existence	
Co-existence	


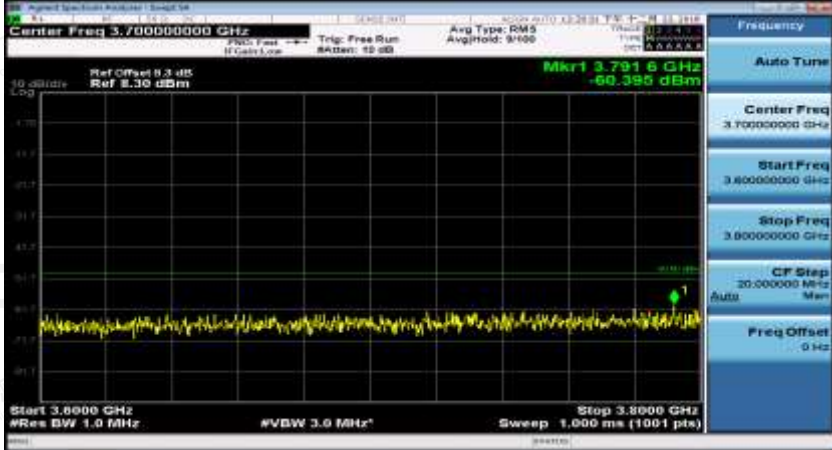
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Co-existence	
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Co-existence	
Co-existence	
Co-existence	


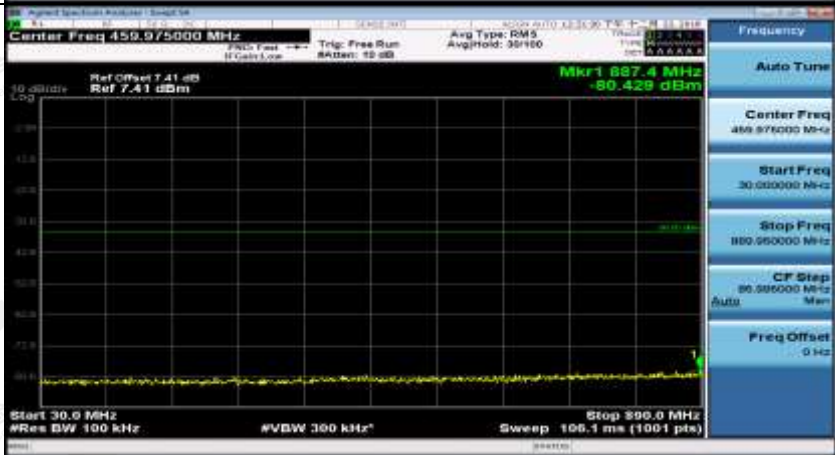
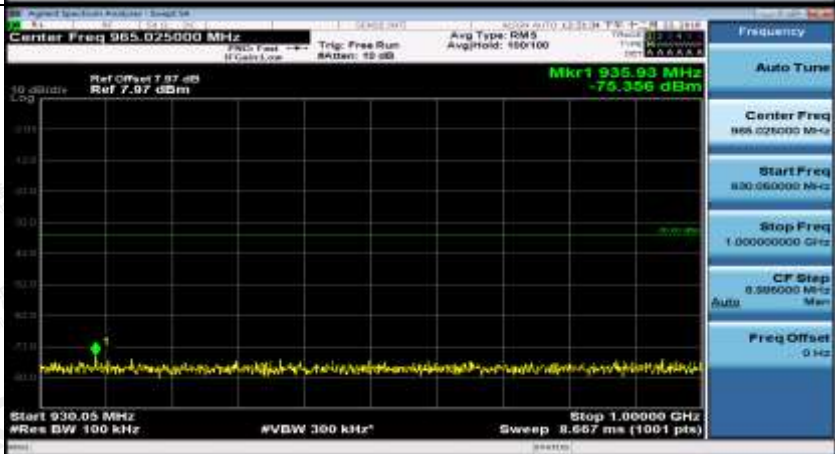
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Co-existence	
Co-existence	
Additional	NA

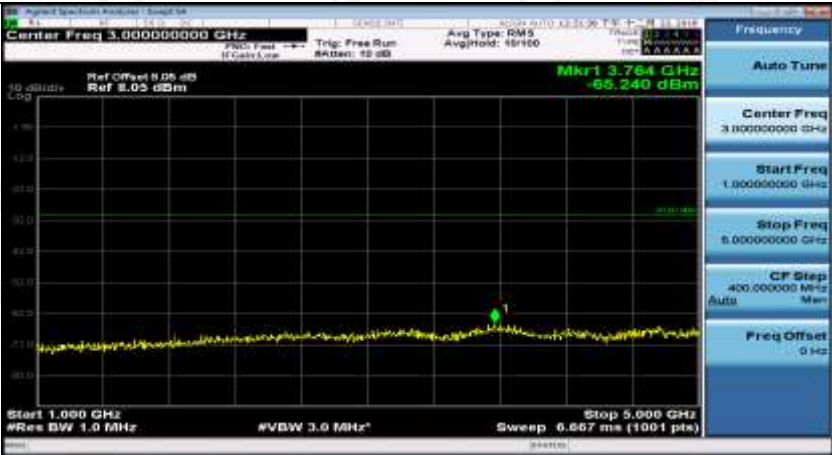

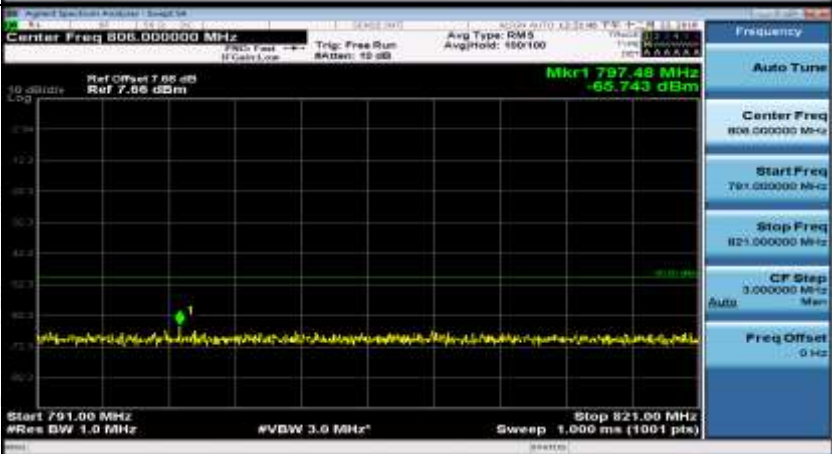
Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_1RB#0

General	
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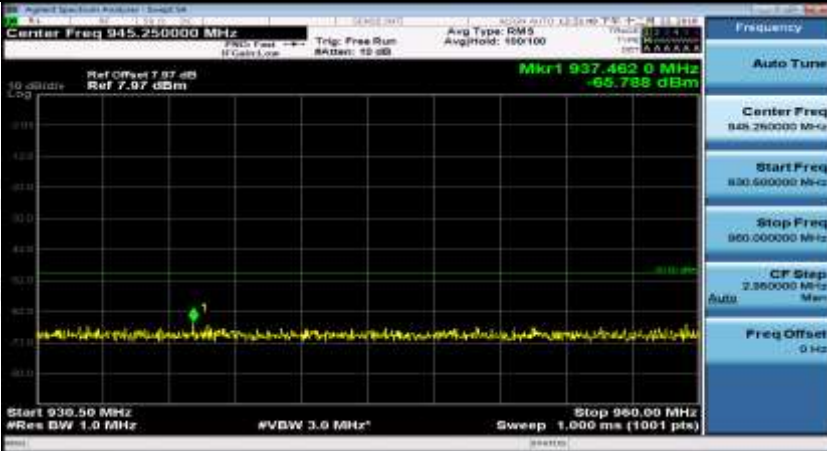
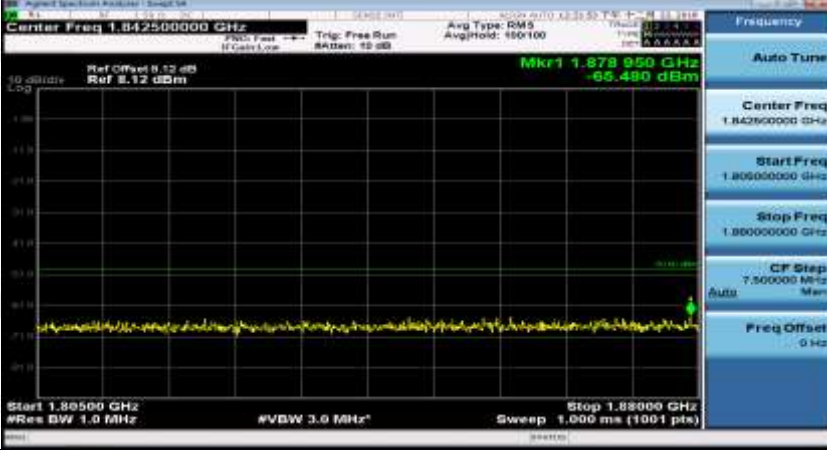
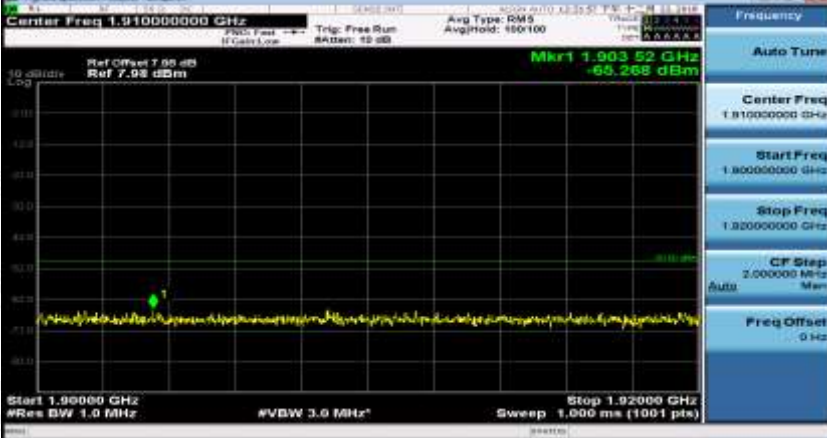
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General			
General			
General			

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General	
General	
Co-existence	

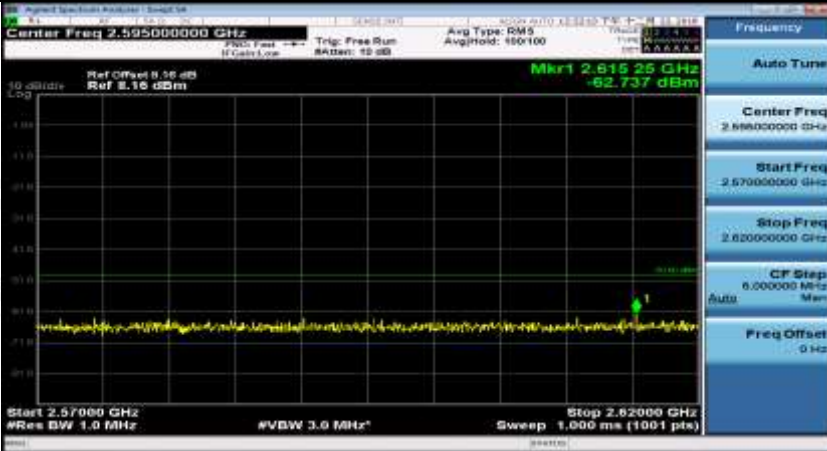
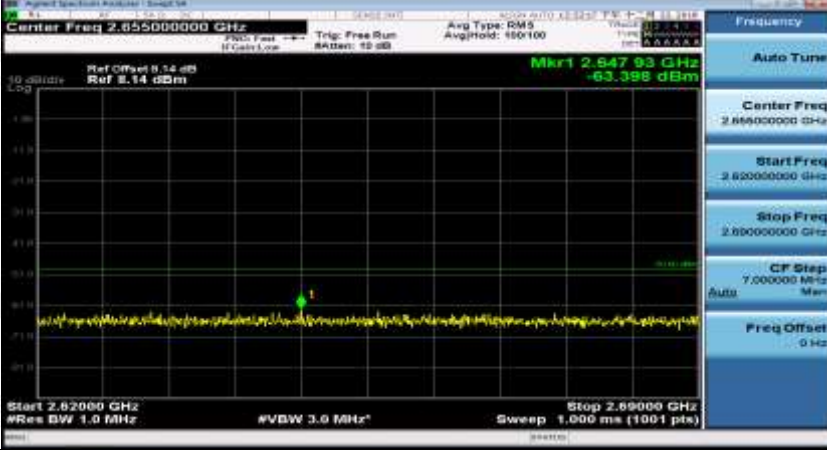
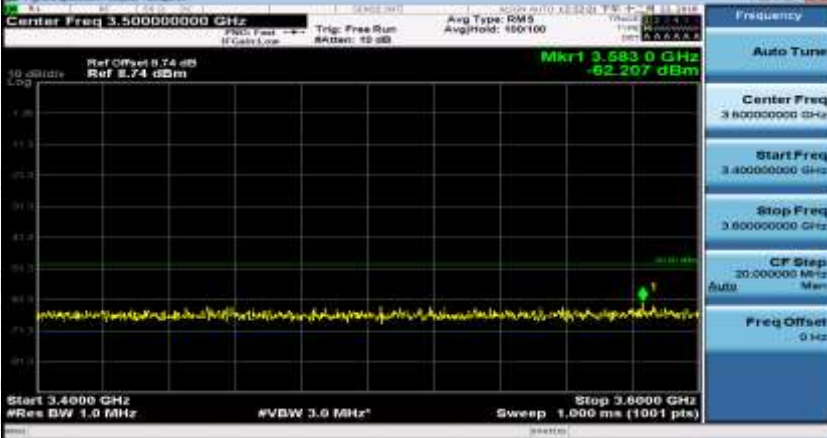
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Co-existence	
Co-existence	
Co-existence	


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Co-existence	
Co-existence	
Co-existence	

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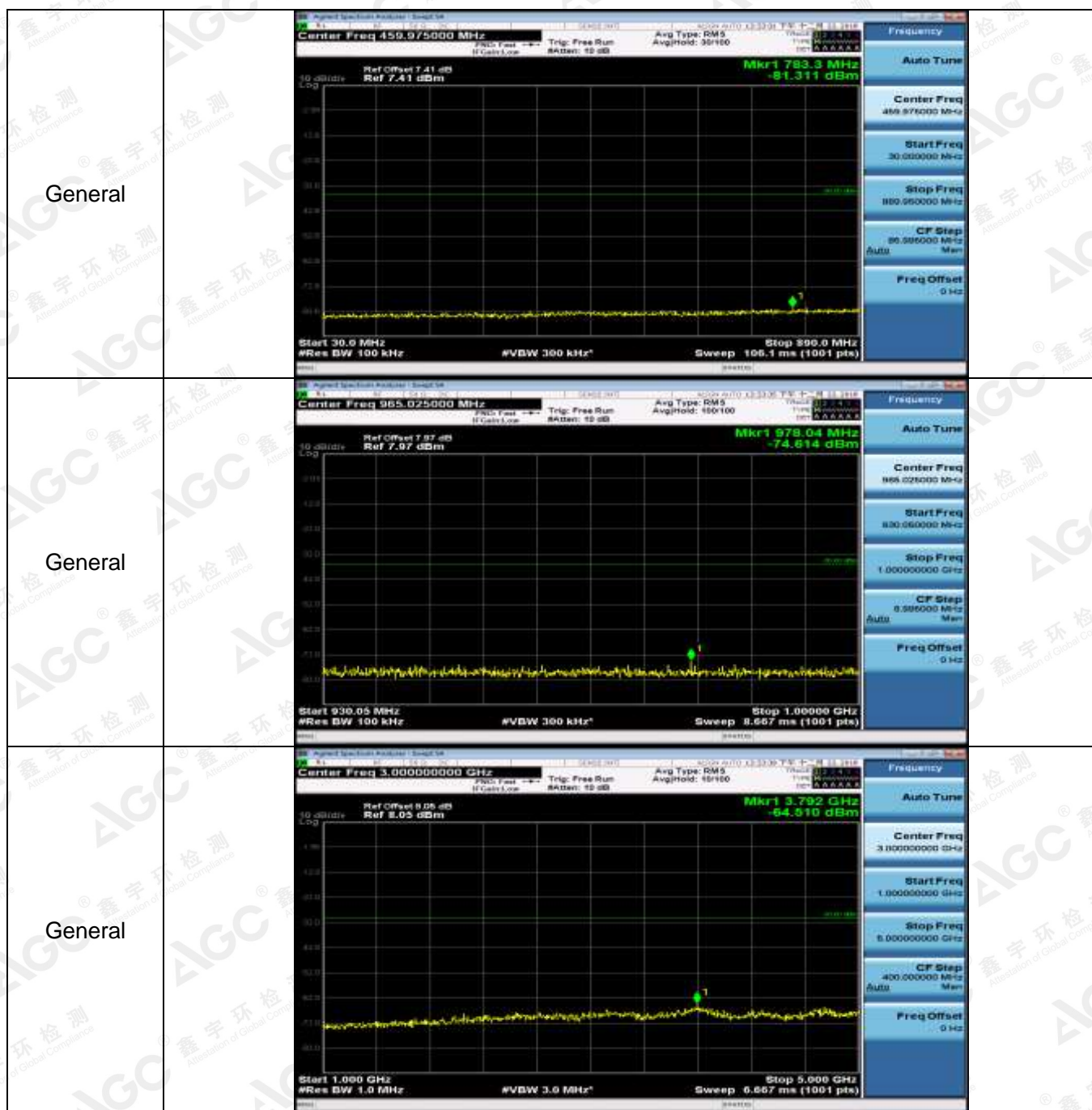
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_1RB#max	
General	
General	

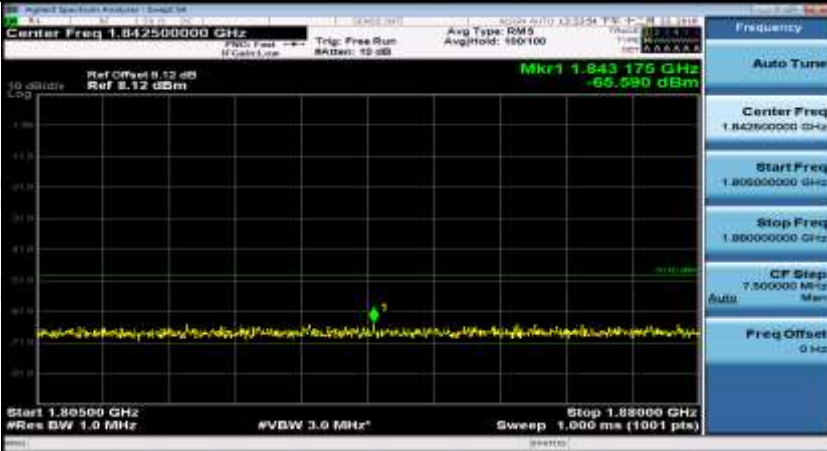
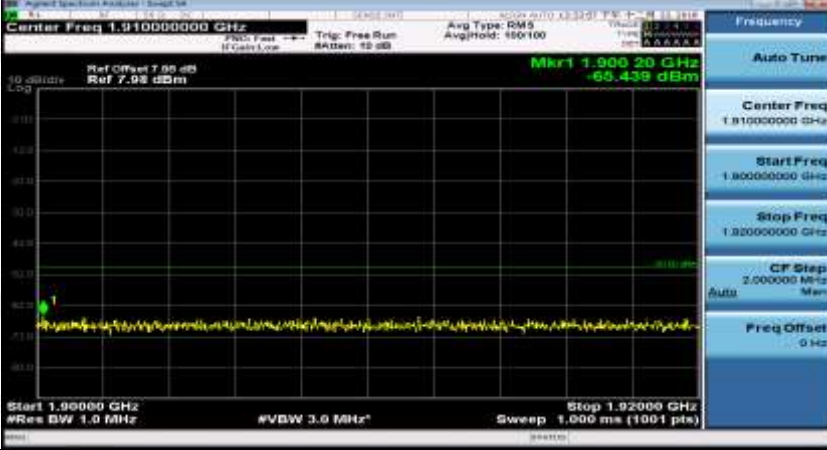
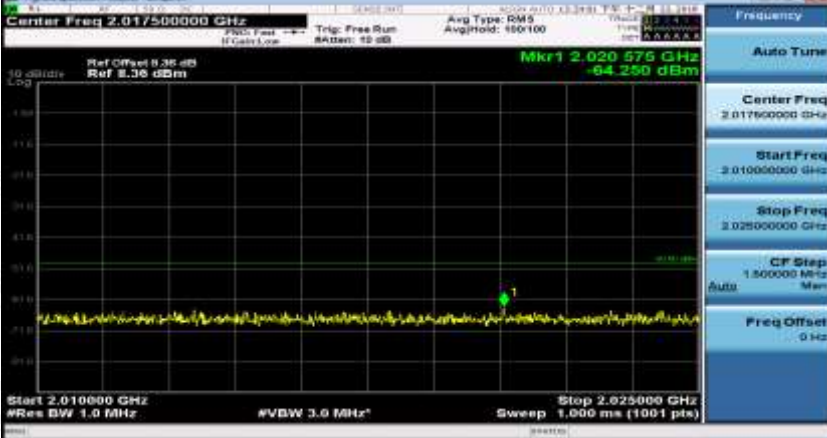
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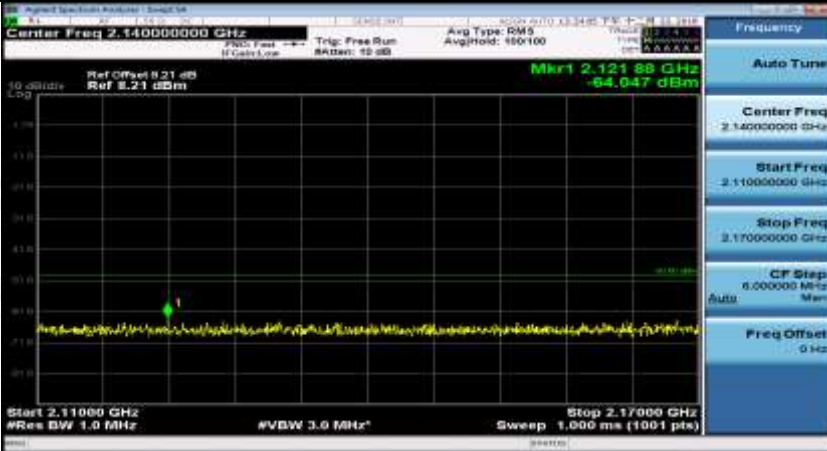
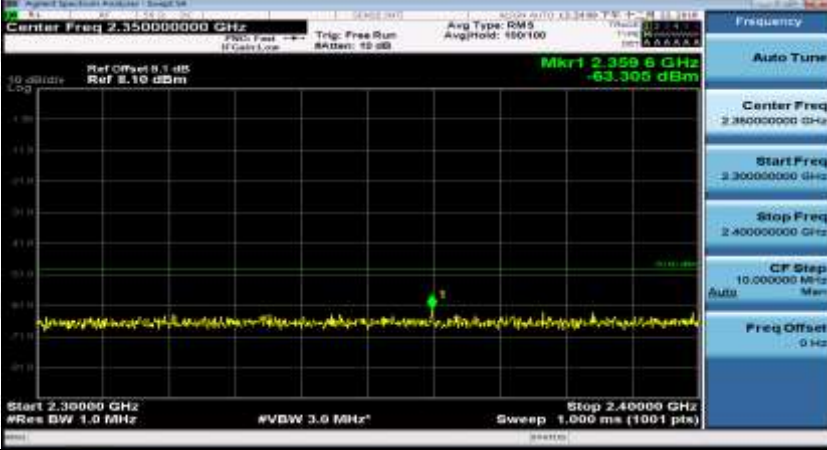
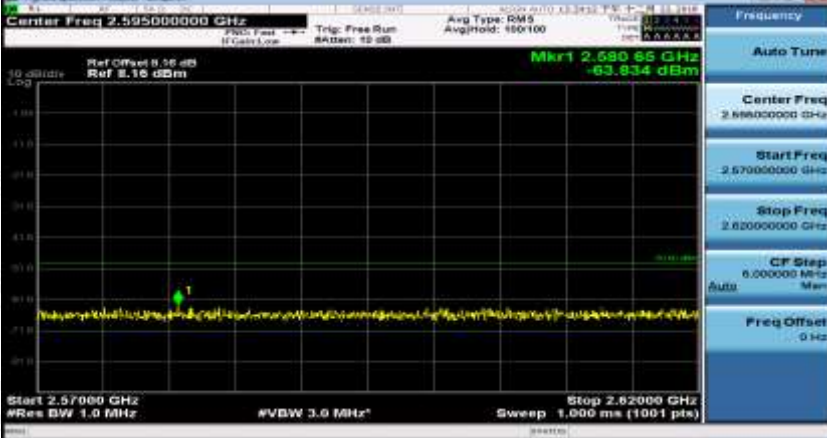
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 6.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 945.250000 MHz</p> <p>Start Freq 930.500000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 2.350000 MHz</p> <p>Freq Offset 0 Hz</p>


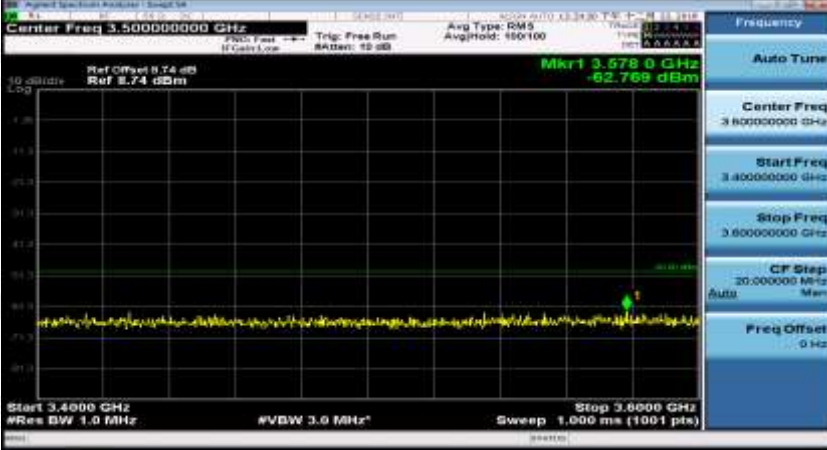
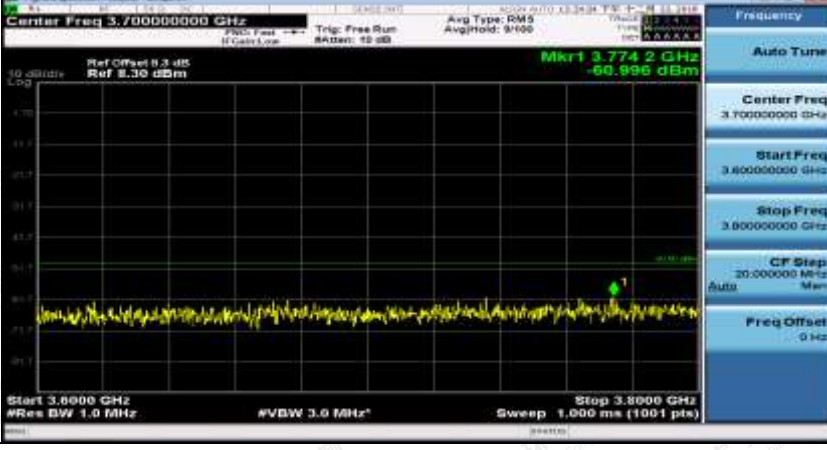
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Co-existence	
Co-existence	
Co-existence	

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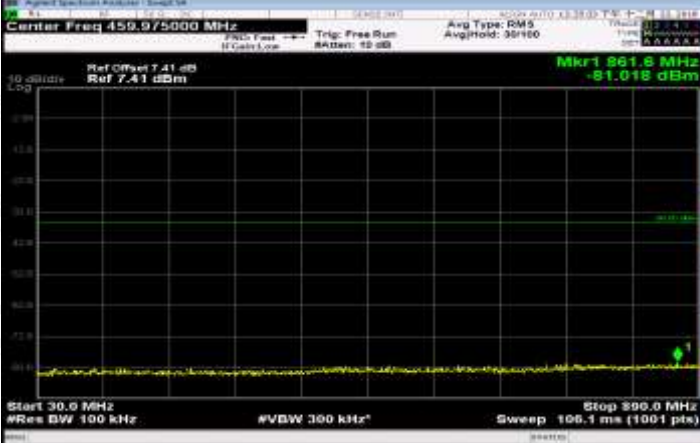
Co-existence	
Co-existence	
Co-existence	

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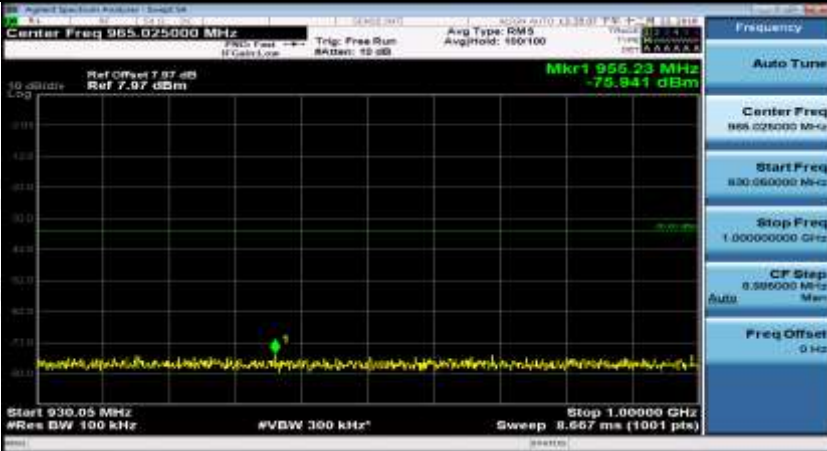
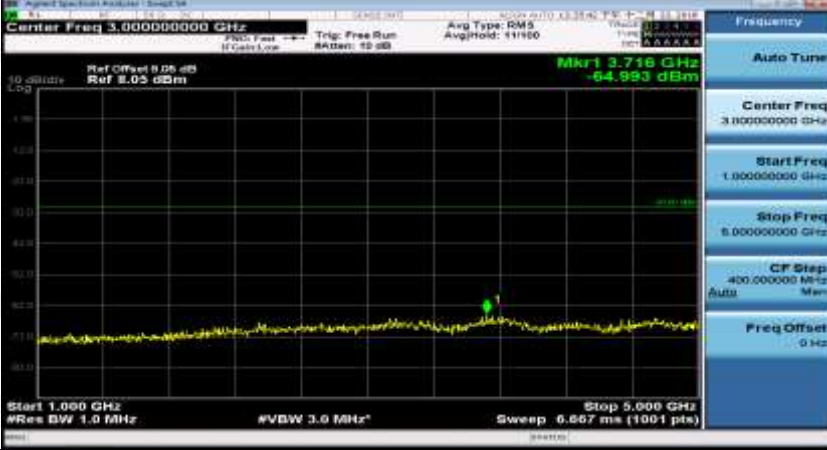
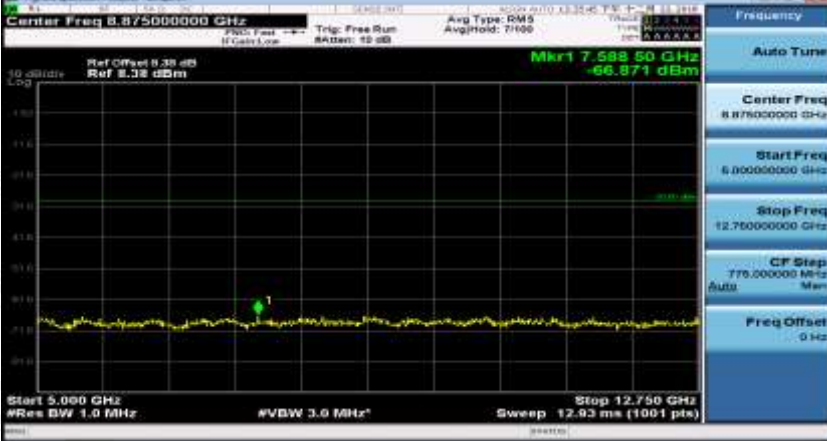
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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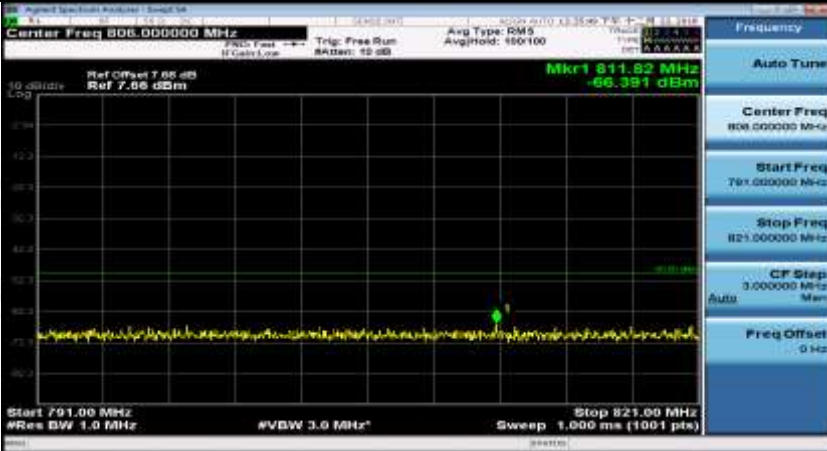
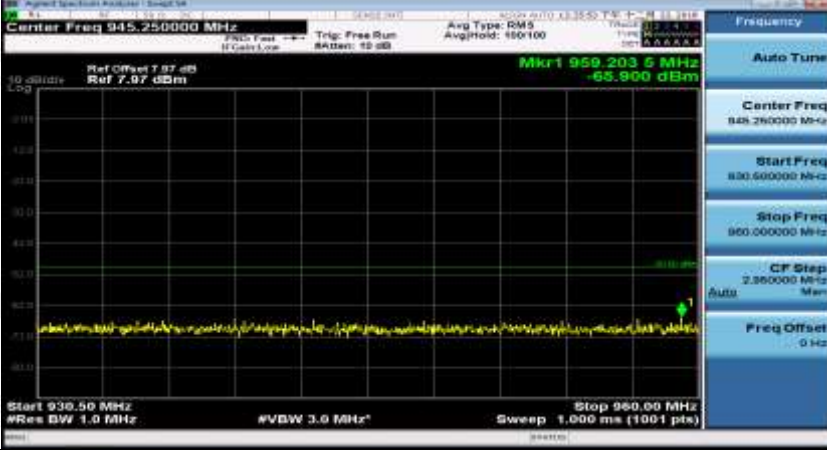
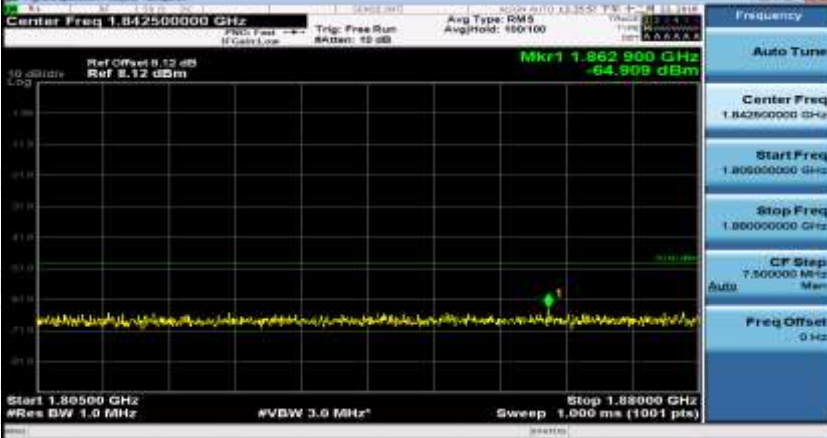
Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_FullIRB#0

General	
General	
General	


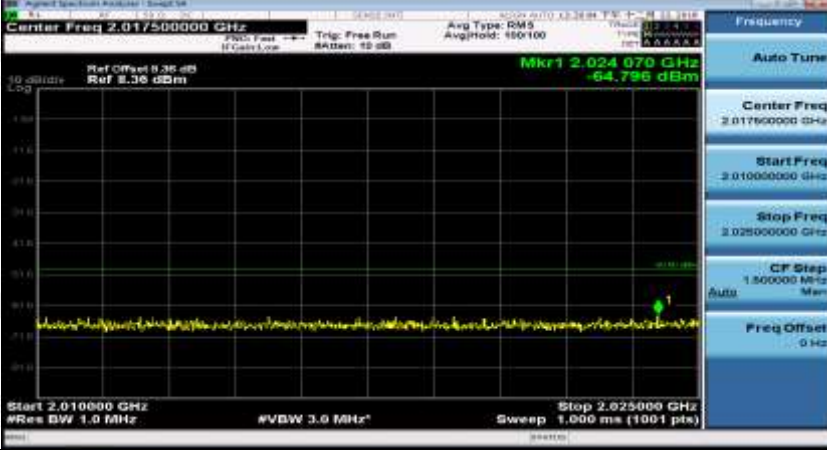
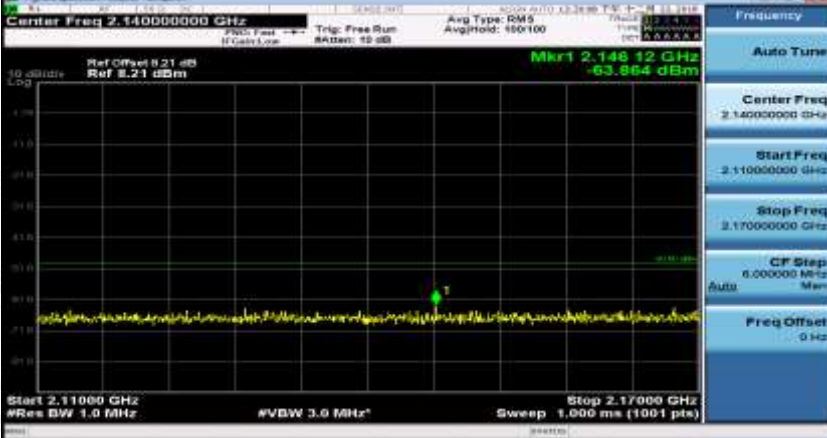
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General	
General	
General	

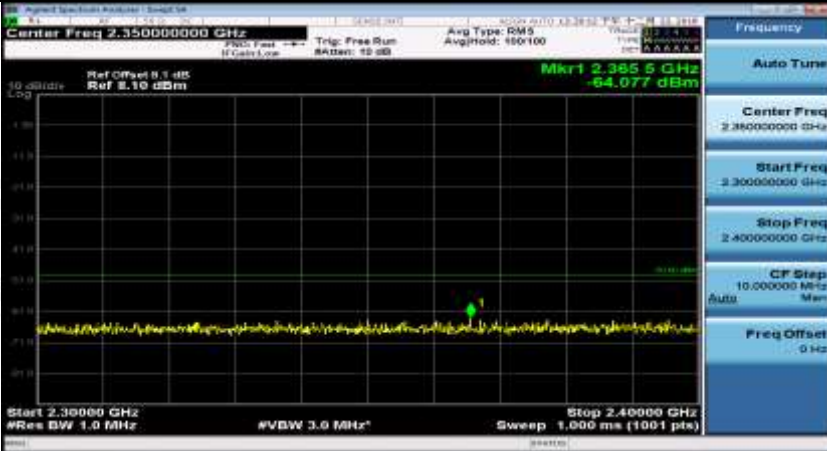
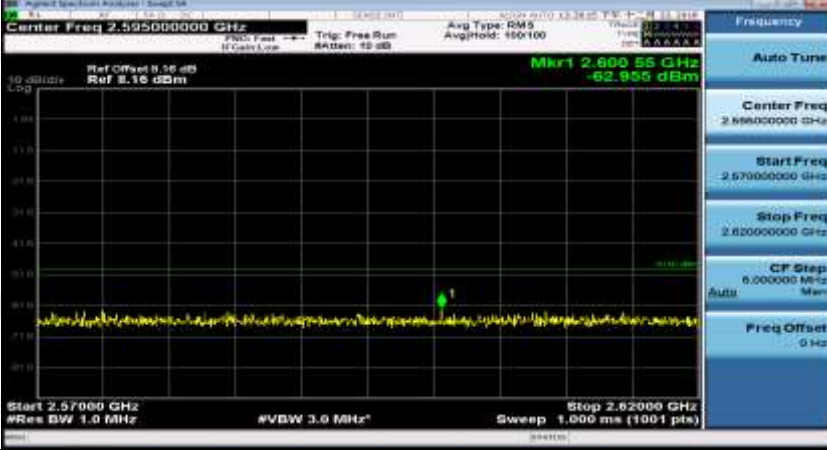
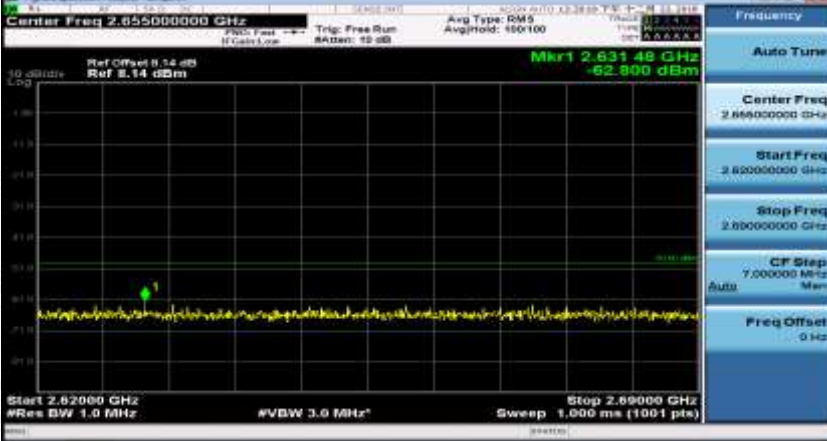
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Co-existence	
Co-existence	
Co-existence	


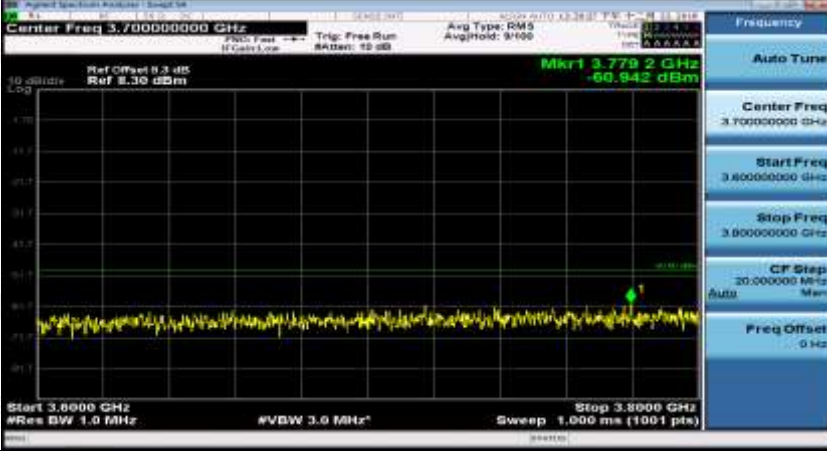
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

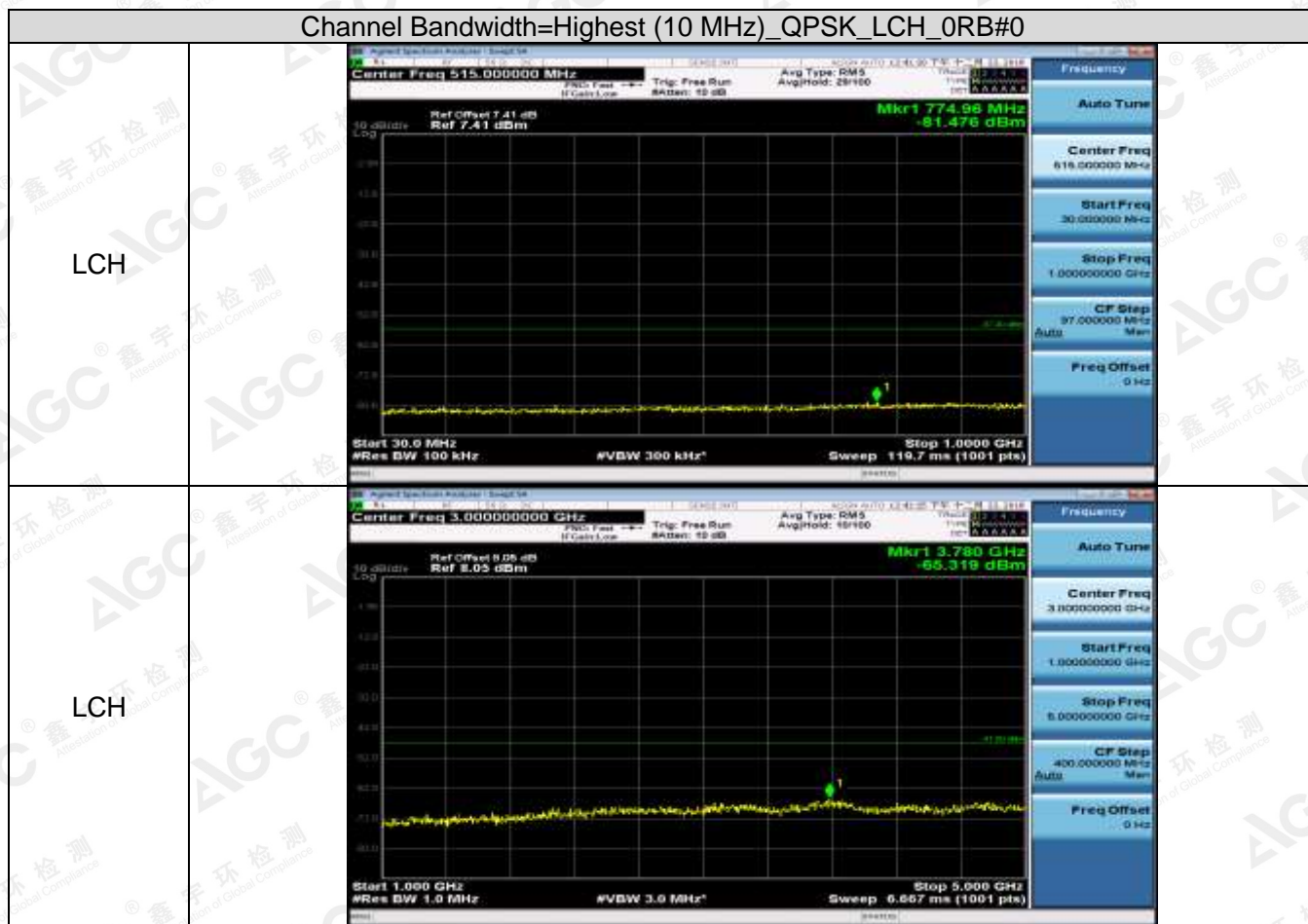
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	10 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

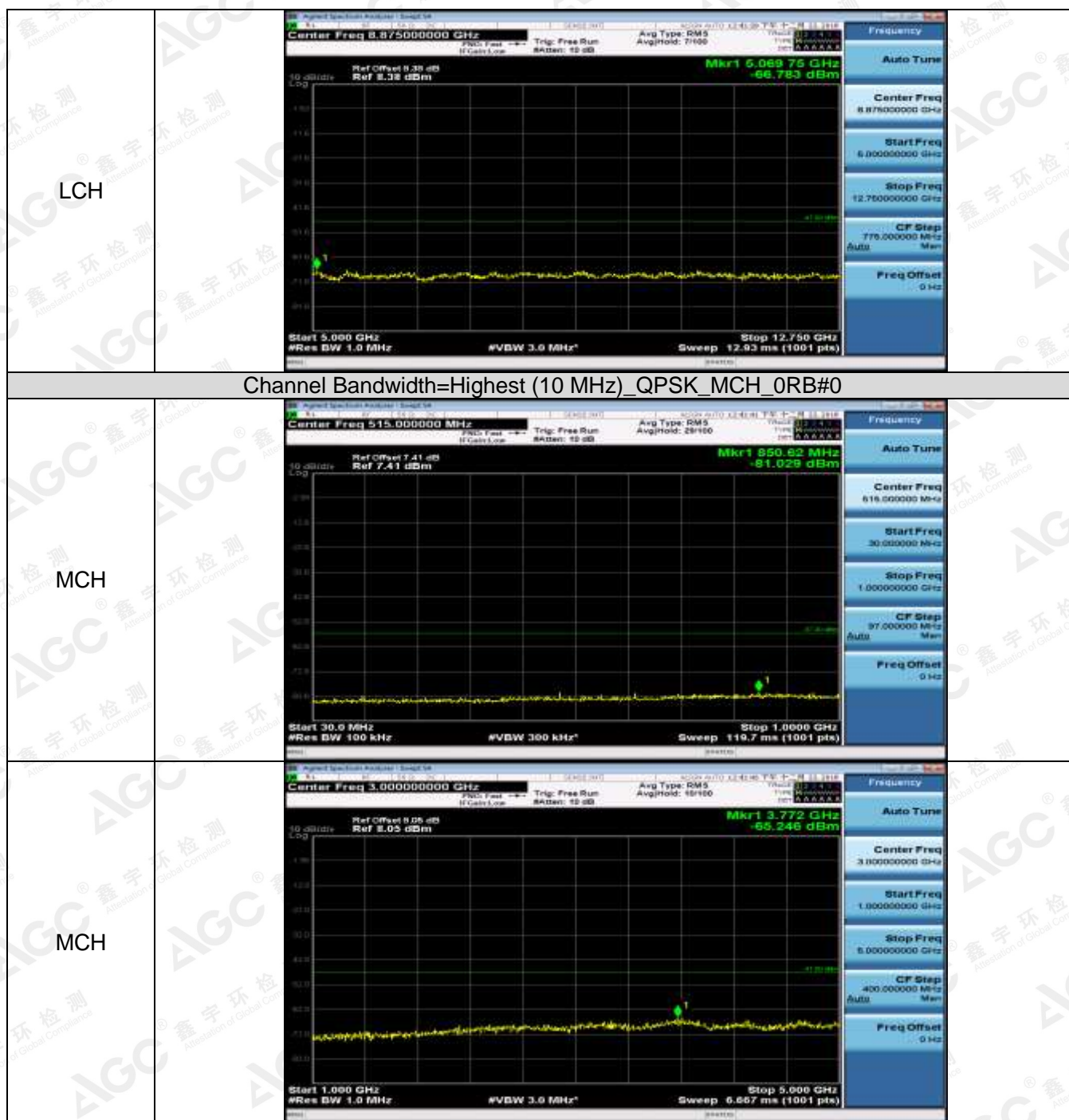
Test Graphs

NTNV

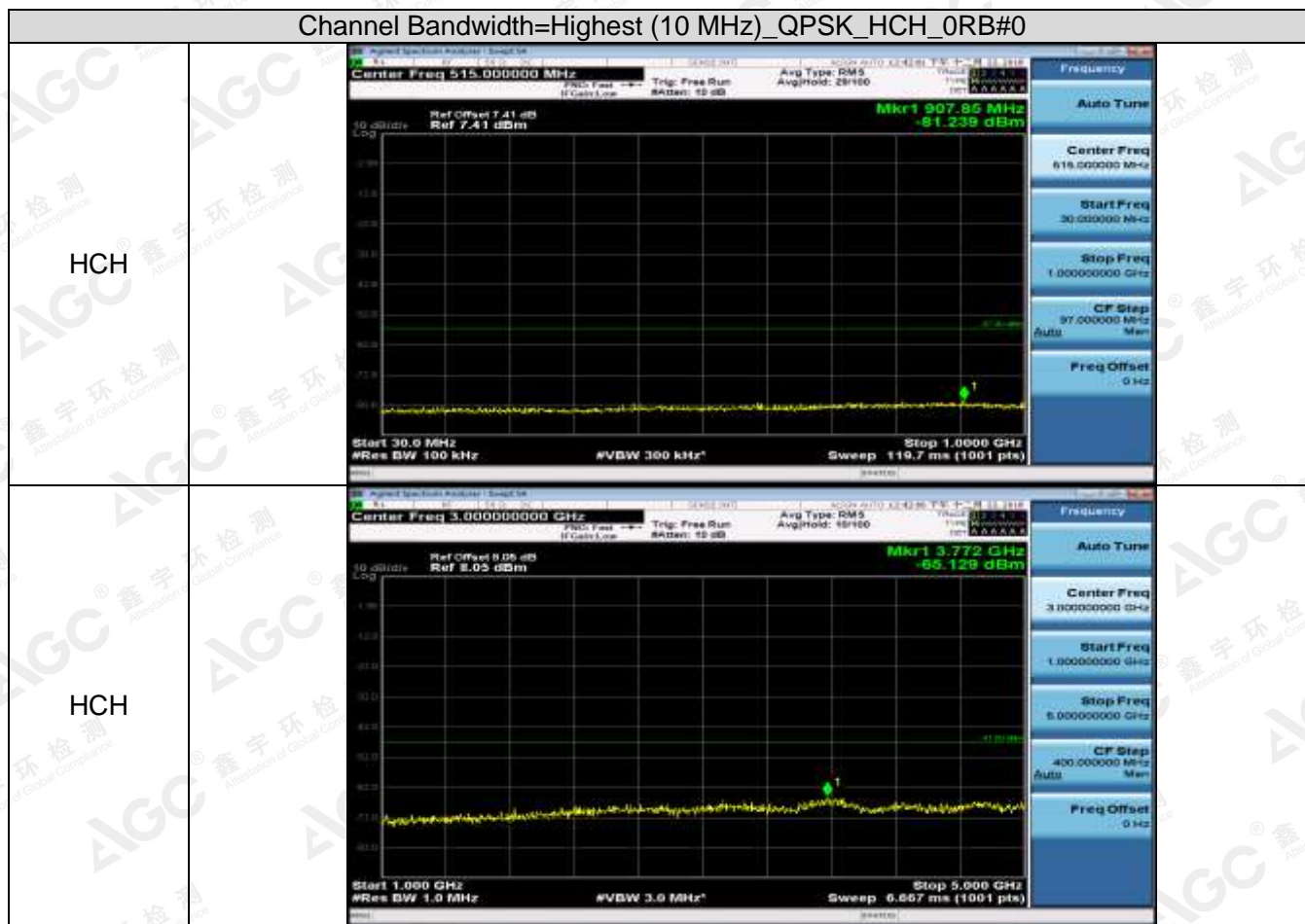
Channel Bandwidth=Highest



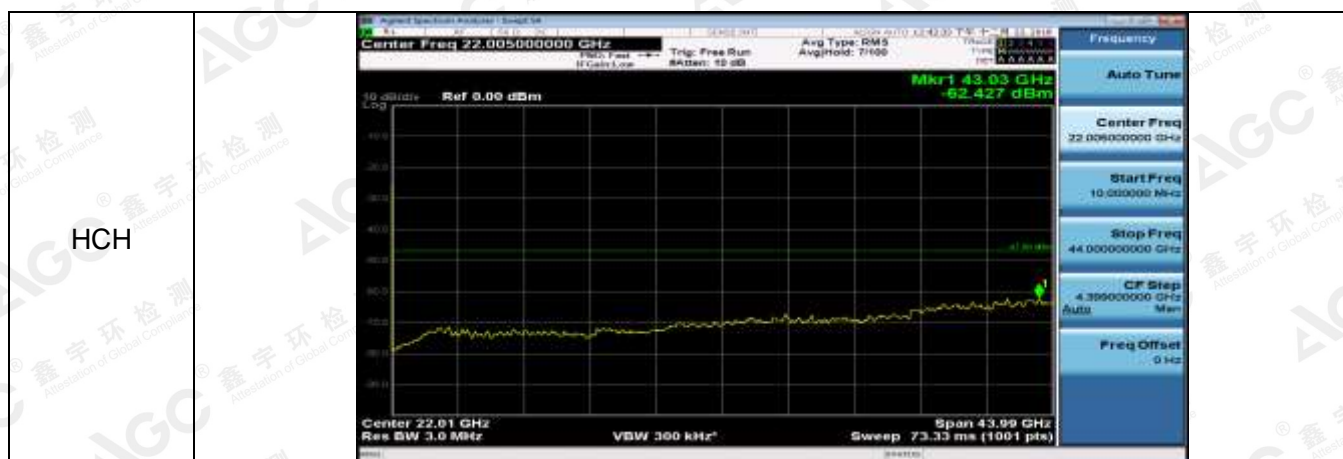
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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (10 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-74.17	-74.07	-74.75
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-69.16	-69.14	-69.80
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-72.09	-71.67	-71.65
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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Out-of Band Blocking

Test Environment		NC			
Test Frequencies		Low range for FInterferer below FDL_low High range for FInterferer above FDL_high			
Test Channel Bandwidths		Lowest, 1.4MHz, Highest 10MHz			
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
1.4MHz	QPSK	Full	QPSK	6	pass	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	pass	≥ 95 %
10MHz	QPSK	Full	QPSK	50	pass	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

NTNV

	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,1.4MHz,Highest 10MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TNVN	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					
TL,VL	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					
TL,VH	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					

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Appendix E for Band 20

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	25.60	Pass
					max	25.54	Pass
				Partial	0	25.64	Pass
					max	25.66	Pass
			Mid range	1	0	25.49	Pass
					max	25.40	Pass
				Partial	0	25.51	Pass
					max	25.56	Pass
			High range	1	0	25.33	Pass
					max	25.27	Pass
				Partial	0	25.32	Pass
					max	25.27	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	25.37	Pass
					max	25.10	Pass
				Partial	0	25.36	Pass
					max	25.05	Pass
			Mid range	1	0	25.36	Pass
					max	25.20	Pass
				Partial	0	25.35	Pass
					max	25.19	Pass
			High range	1	0	25.21	Pass
					max	24.98	Pass
				Partial	0	25.10	Pass
					max	24.81	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Full	0	-46.68	Pass
			Mid range	Full	0	-39.99	Pass
			High range	Full	0	-40.30	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Full	0	-39.72	Pass
			Mid range	Full	0	-39.50	Pass
			High range	Full	0	-39.62	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass

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			Mid range		max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

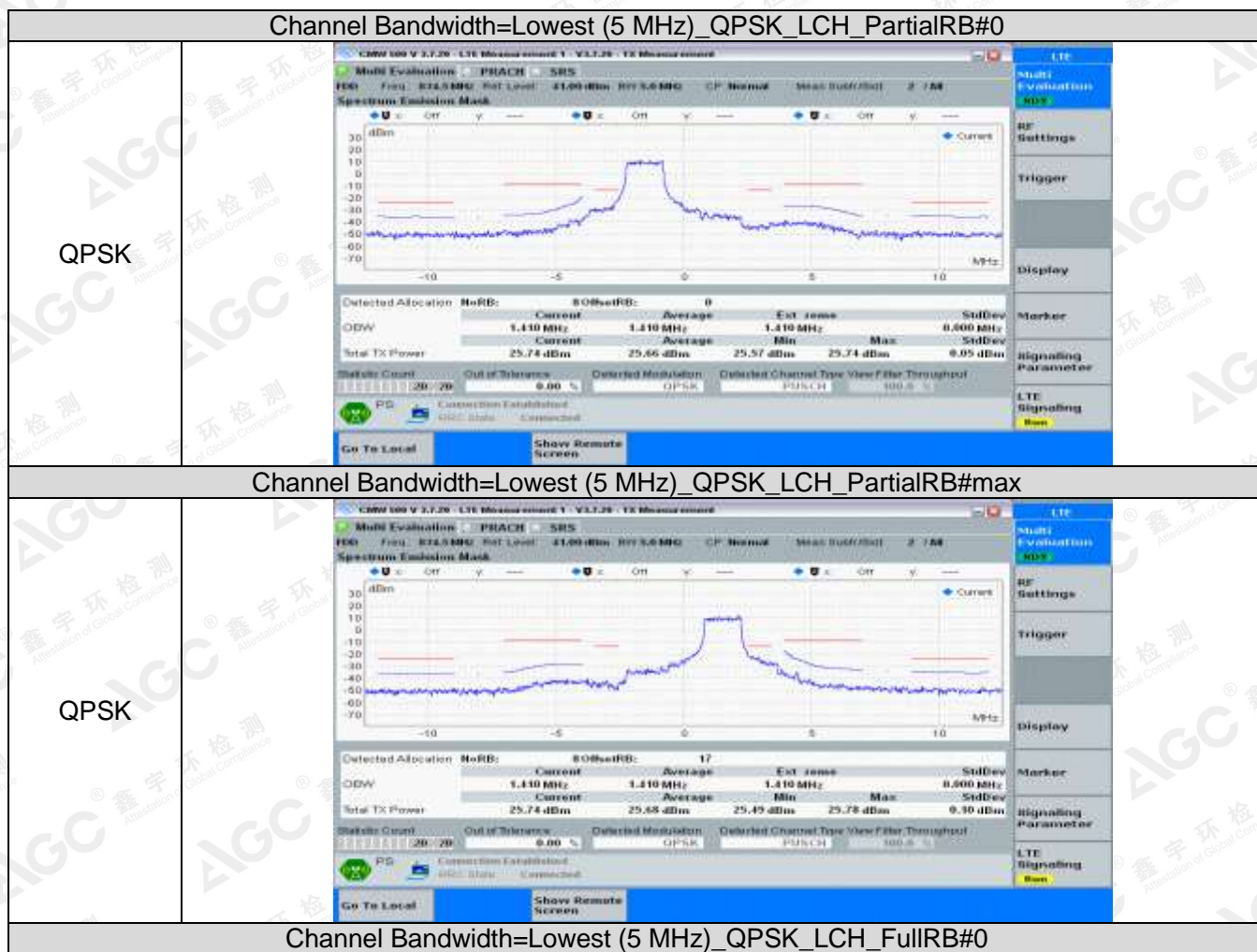
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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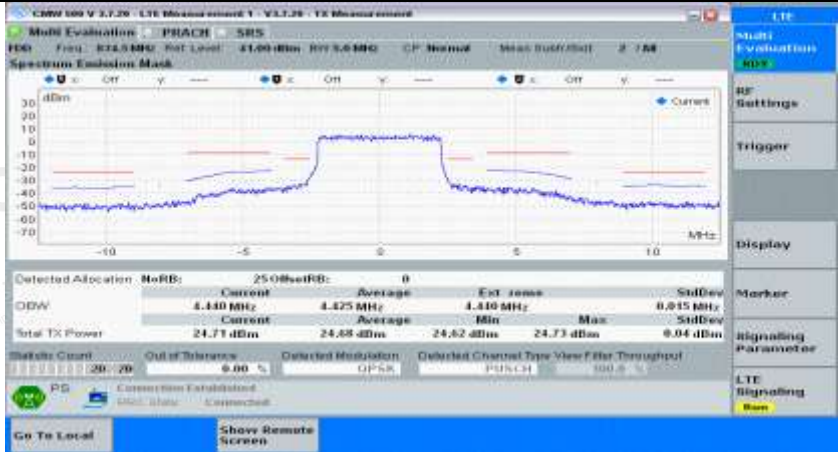
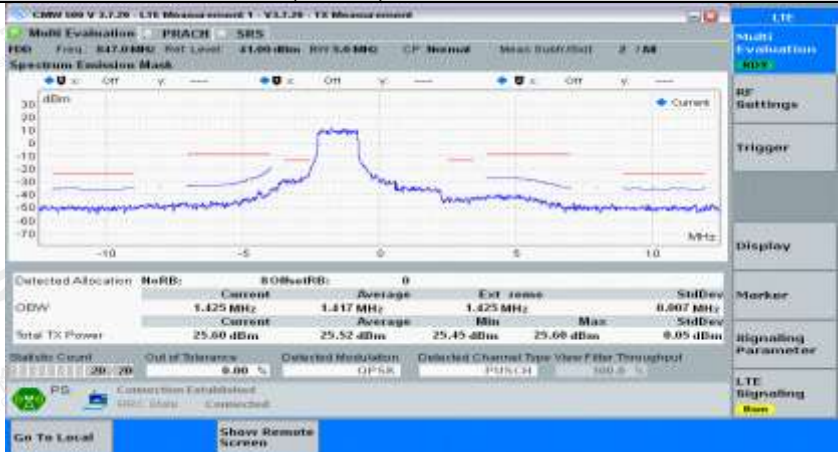

Test Graphs

NTNV

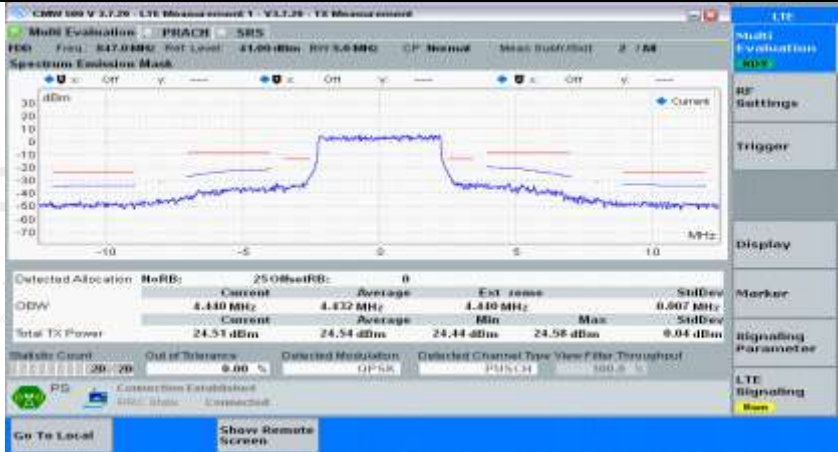
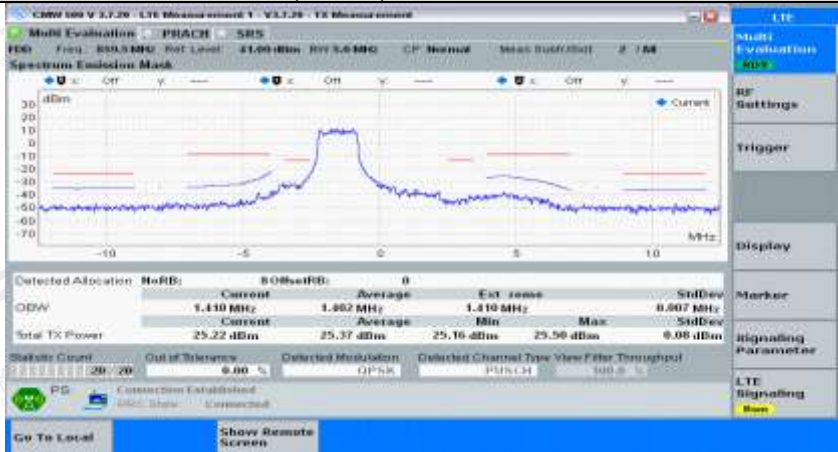
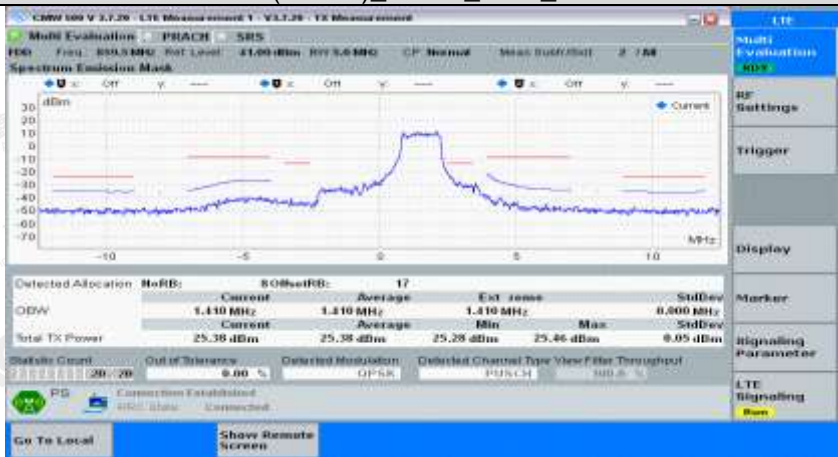
Channel Bandwidth=Lowest (5 MHz)



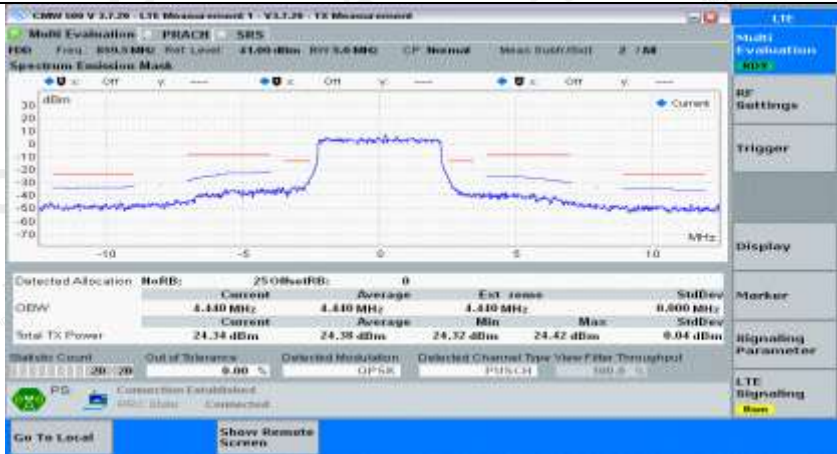
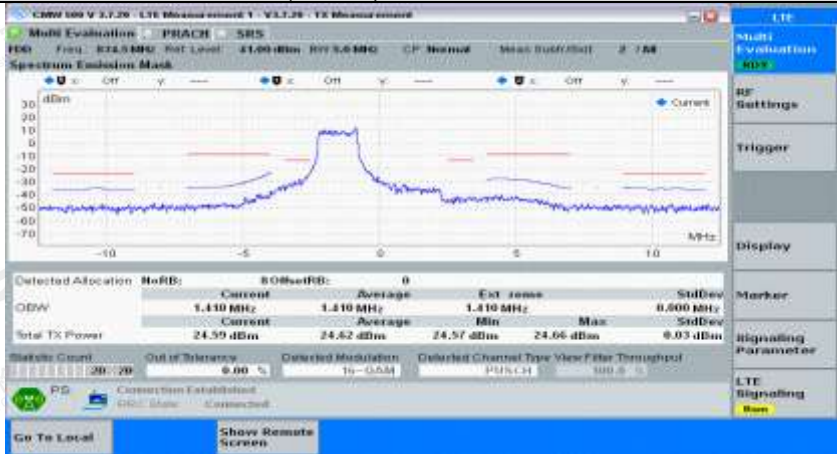
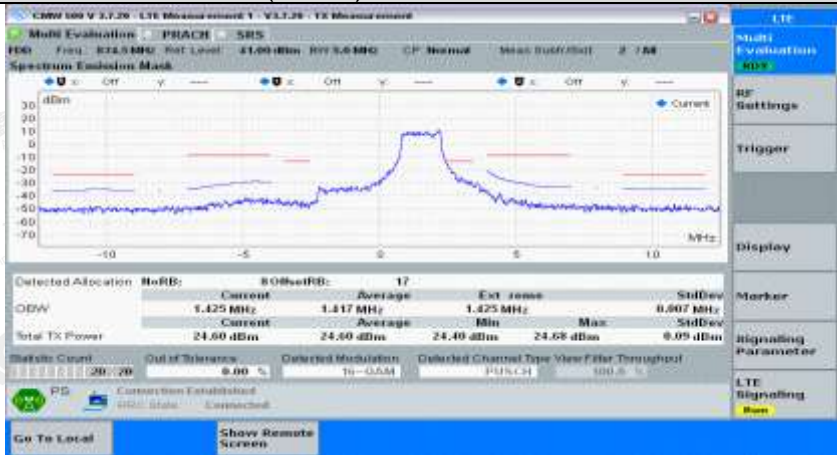
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	

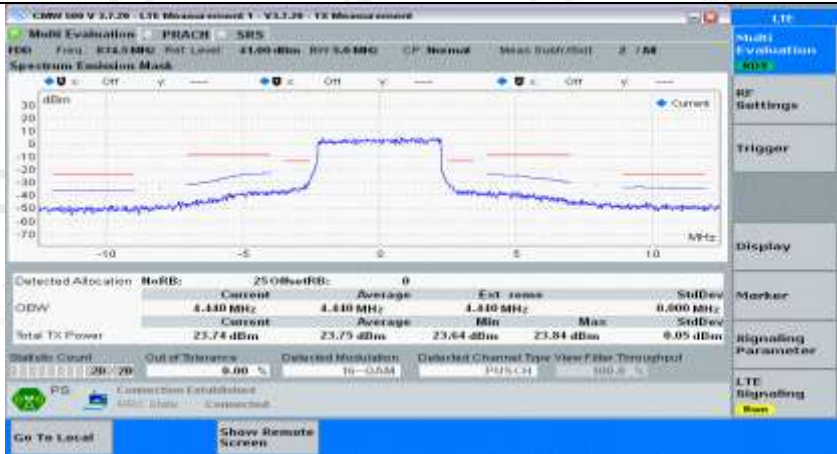
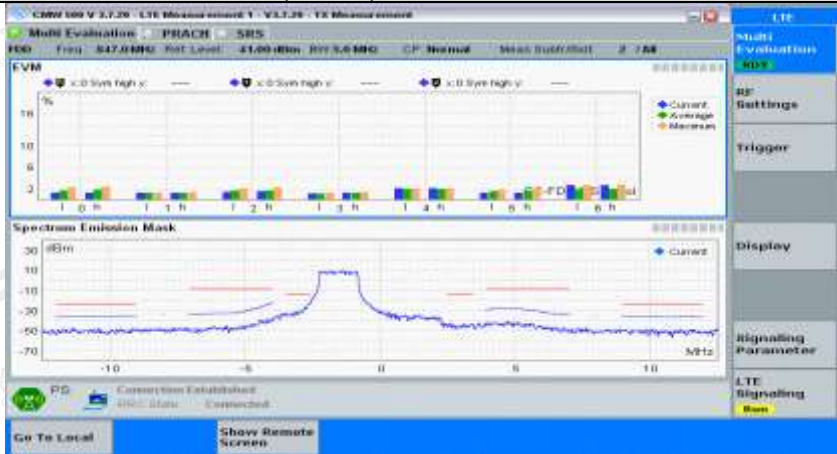
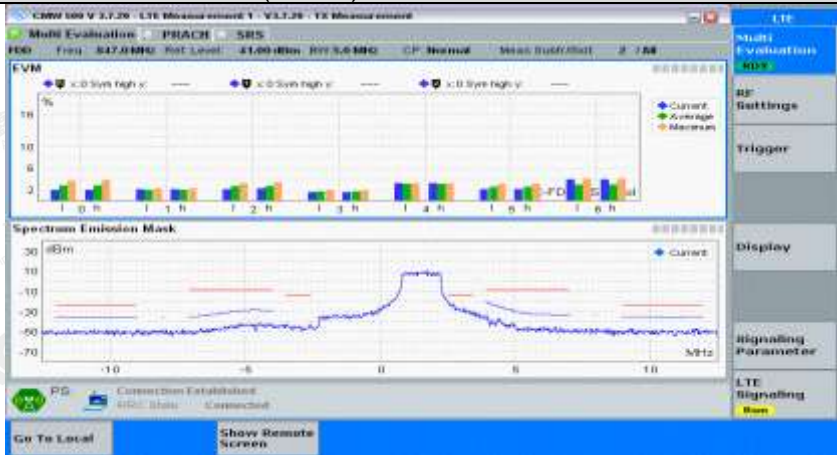
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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullIRB#0</p>

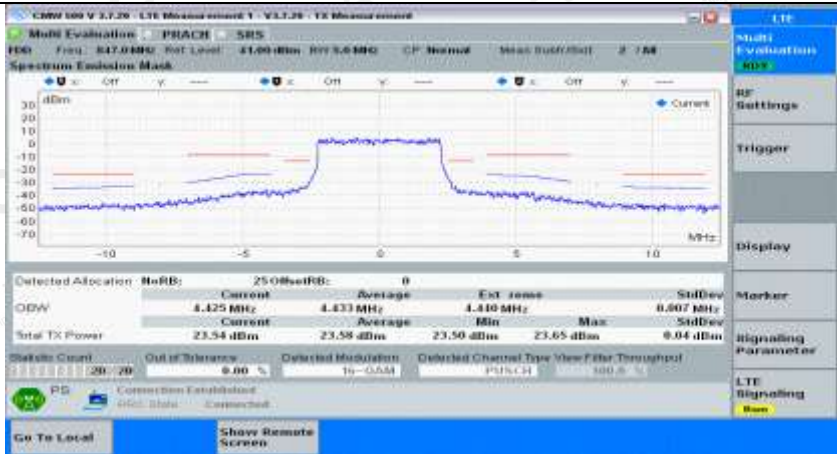
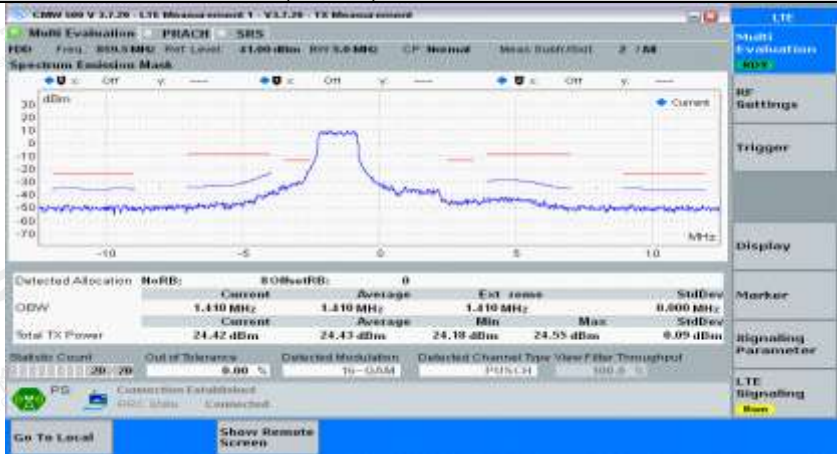
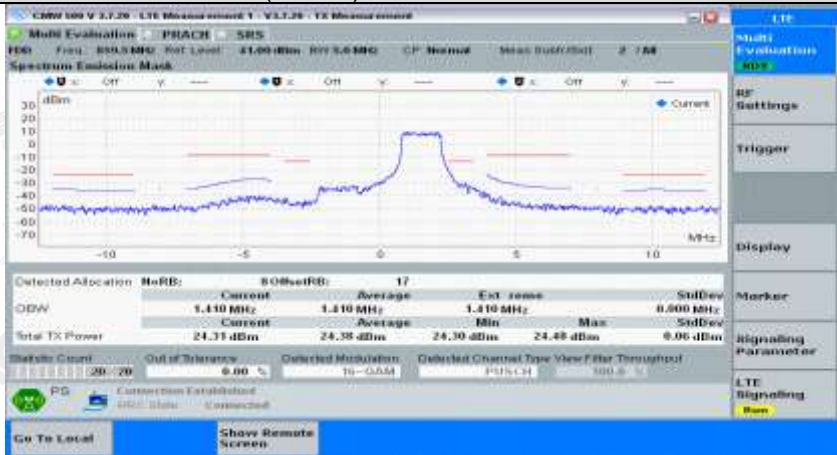
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	

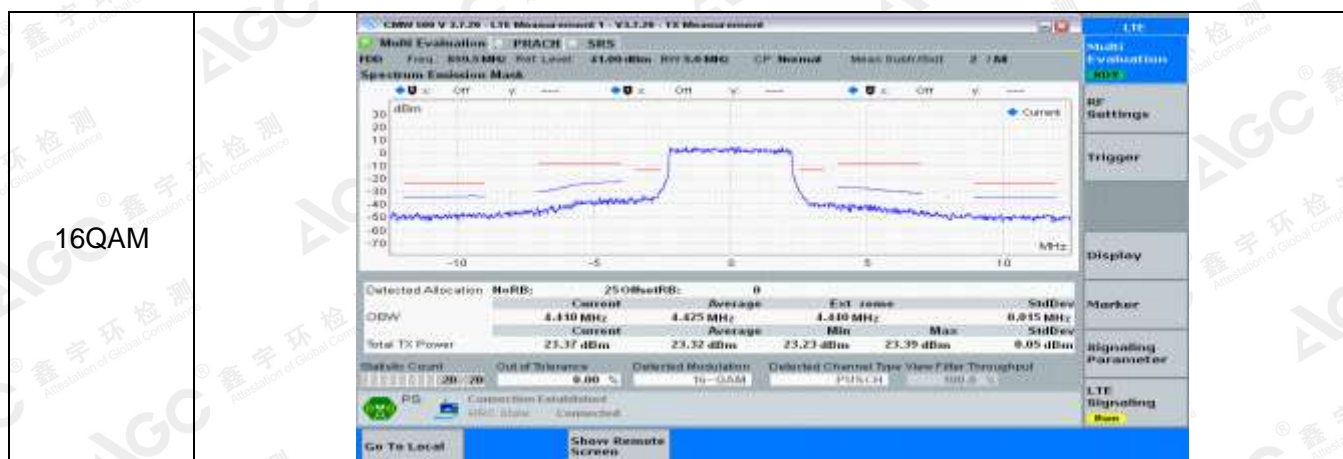
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	

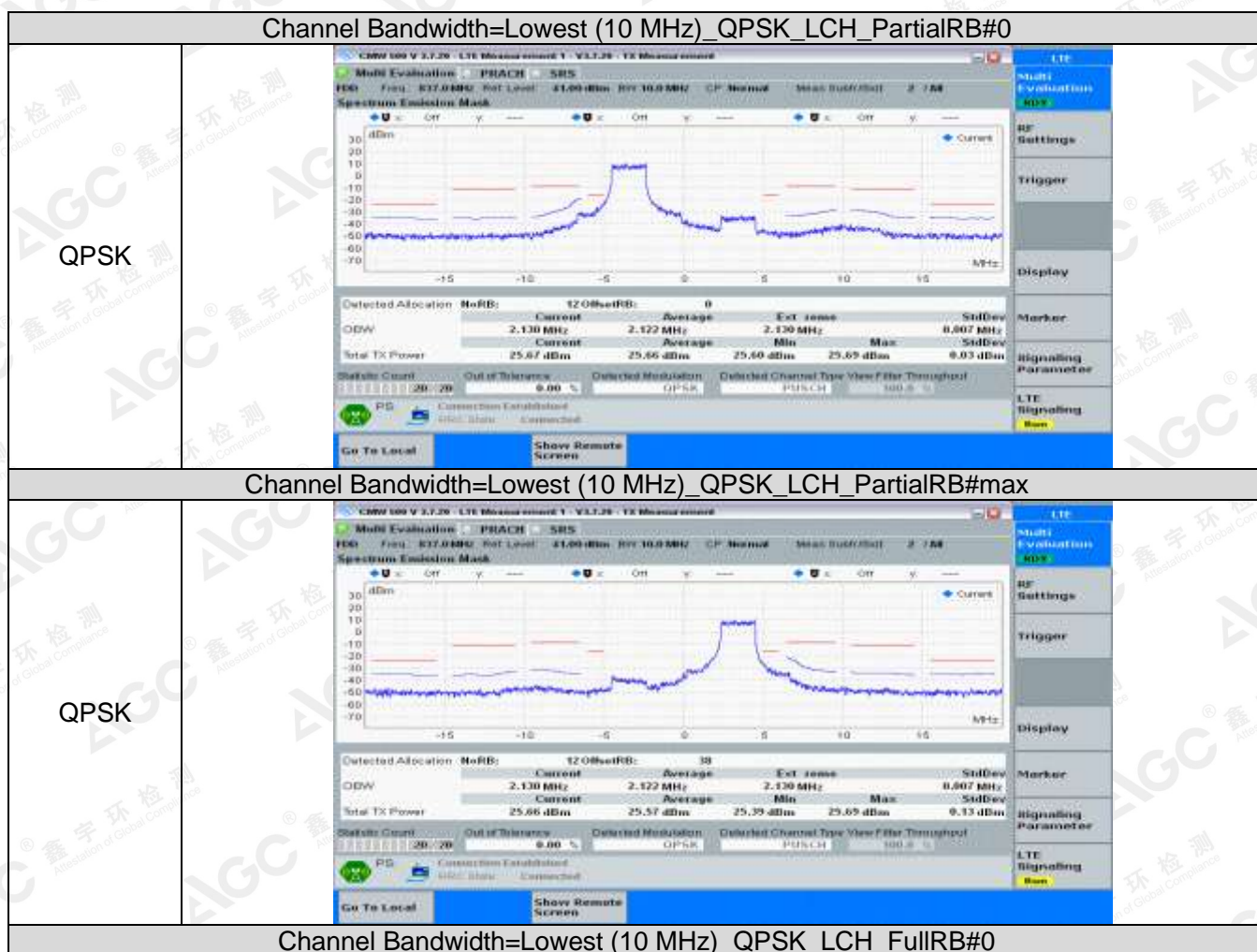
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	

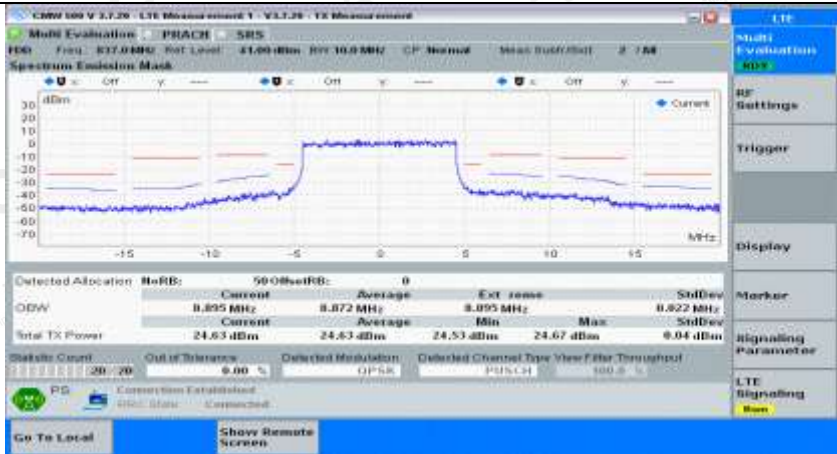
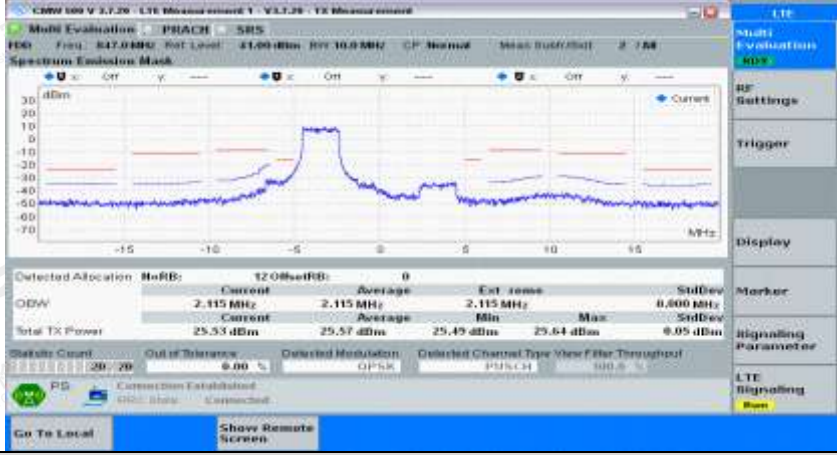
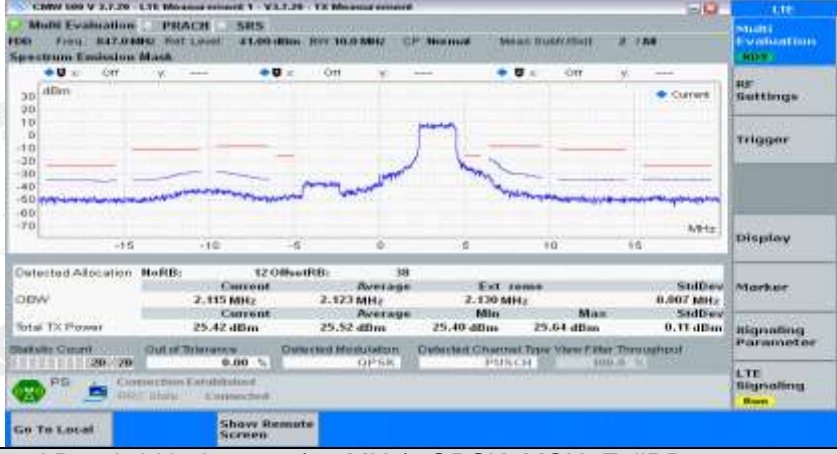
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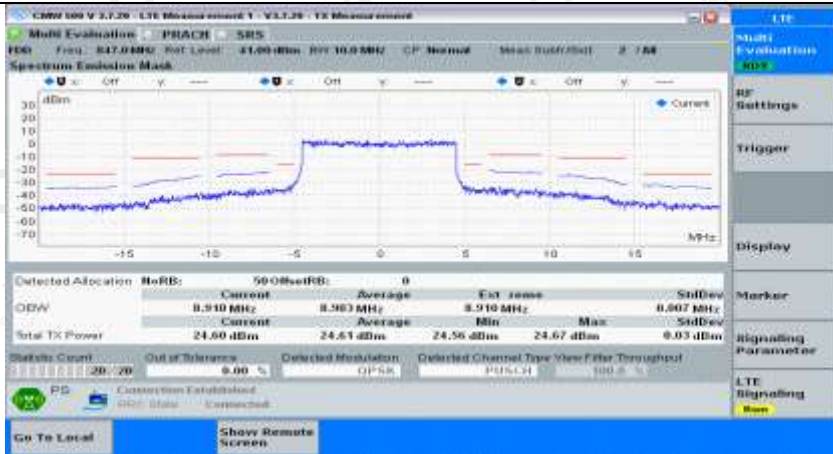
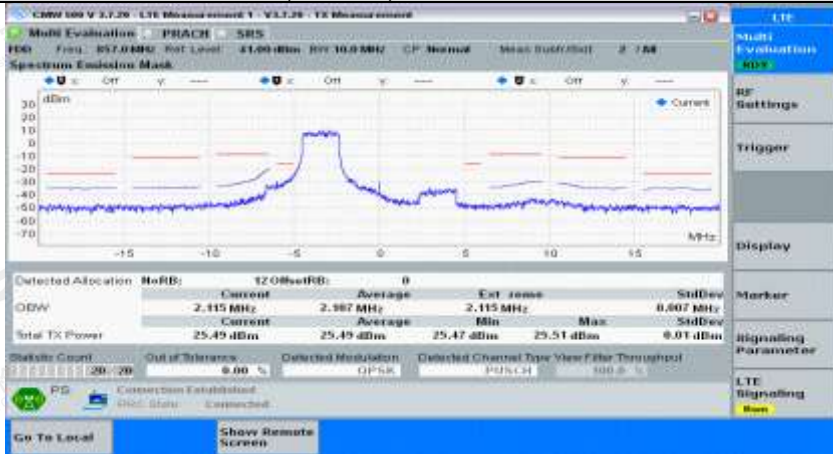
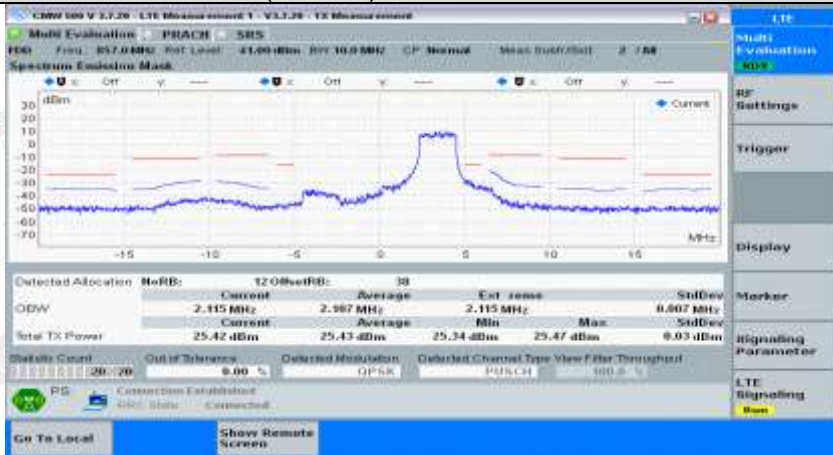
Channel Bandwidth= (10 MHz)



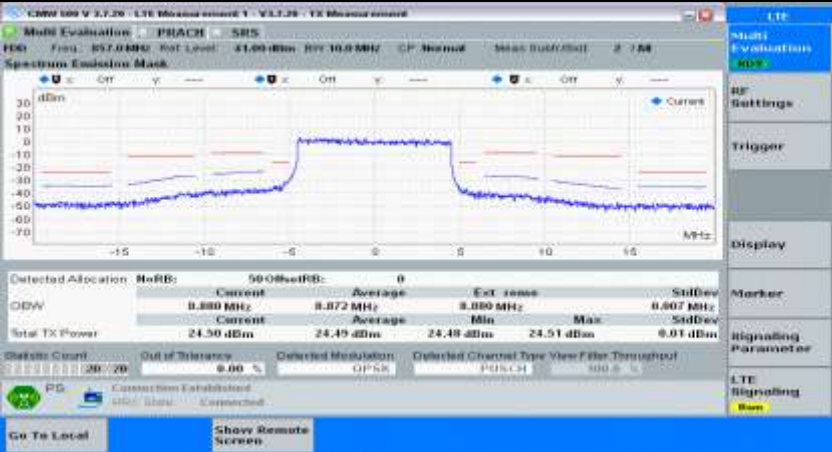
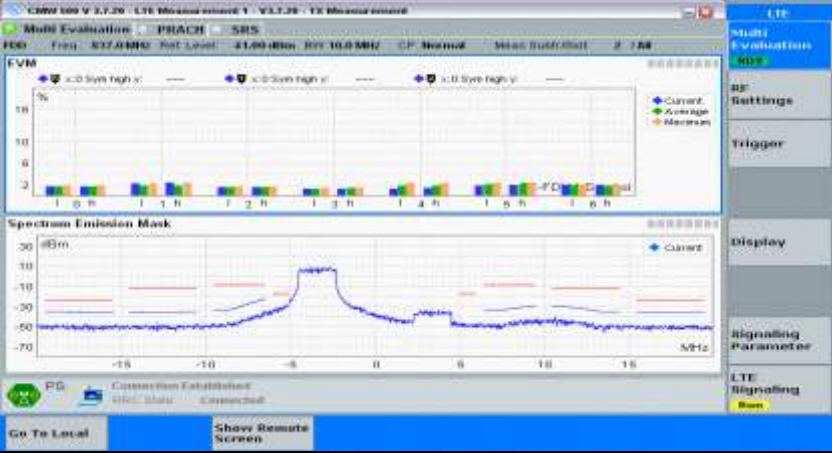
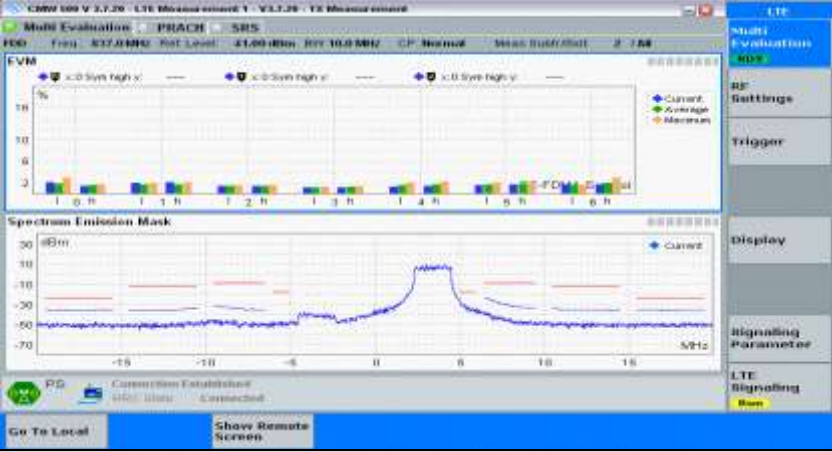
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	

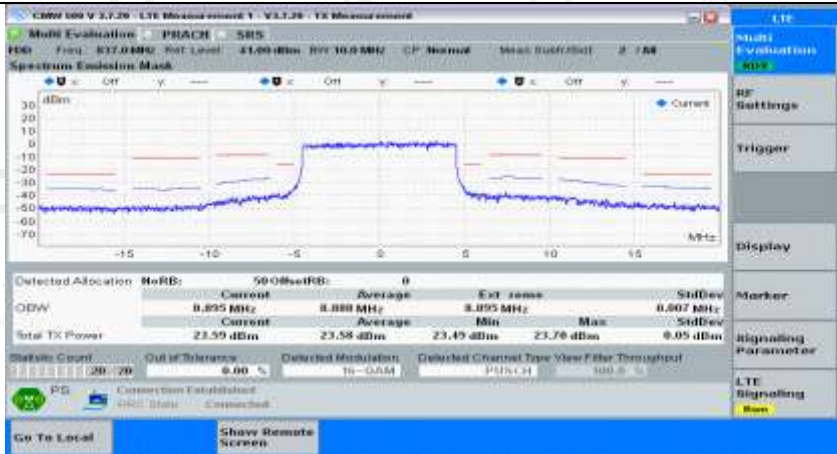

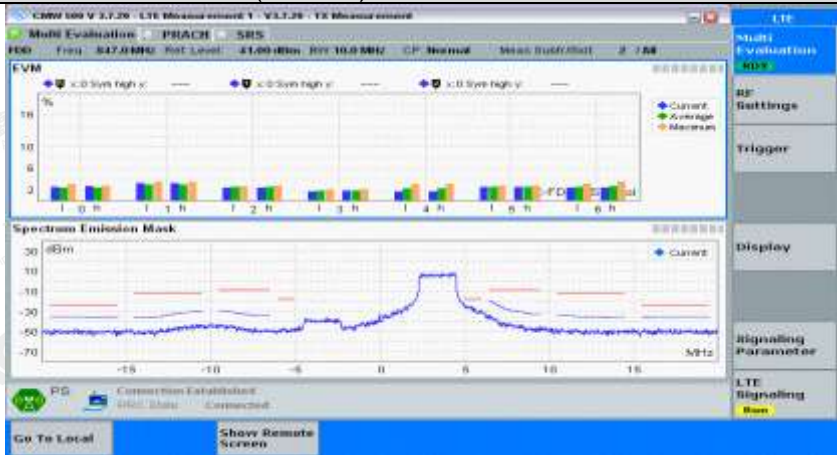
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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0</p>

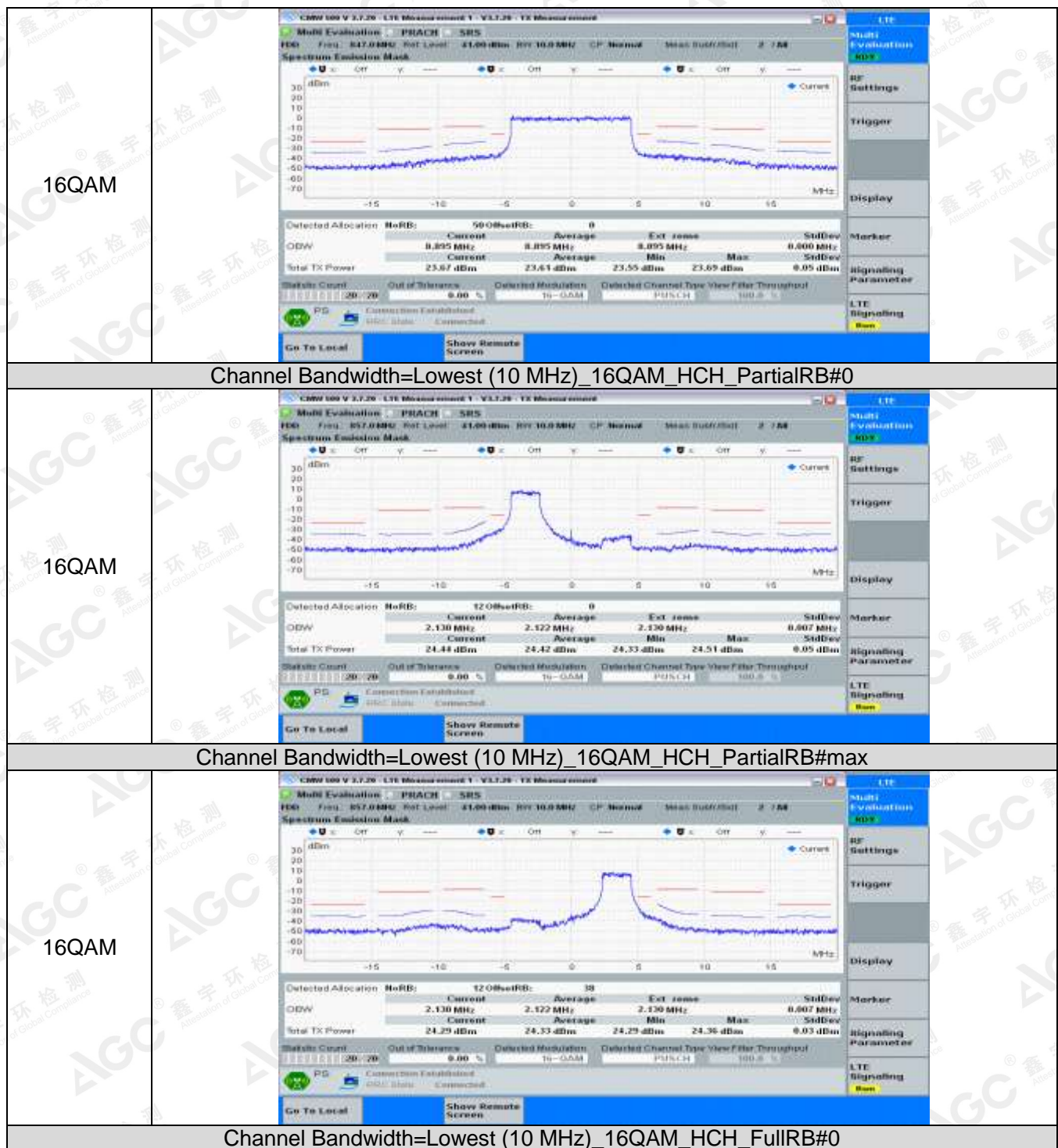
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	

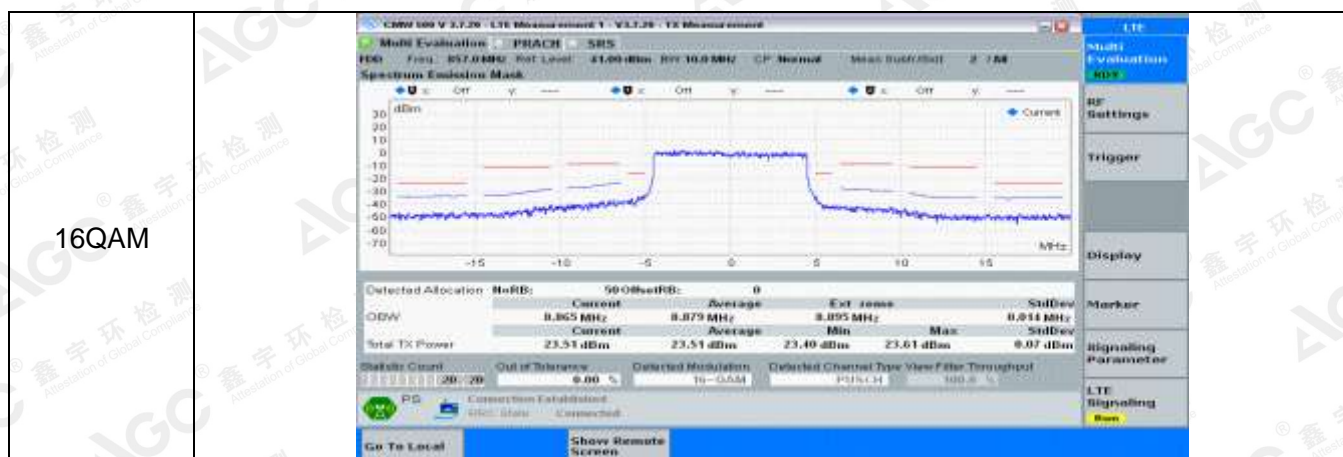
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	

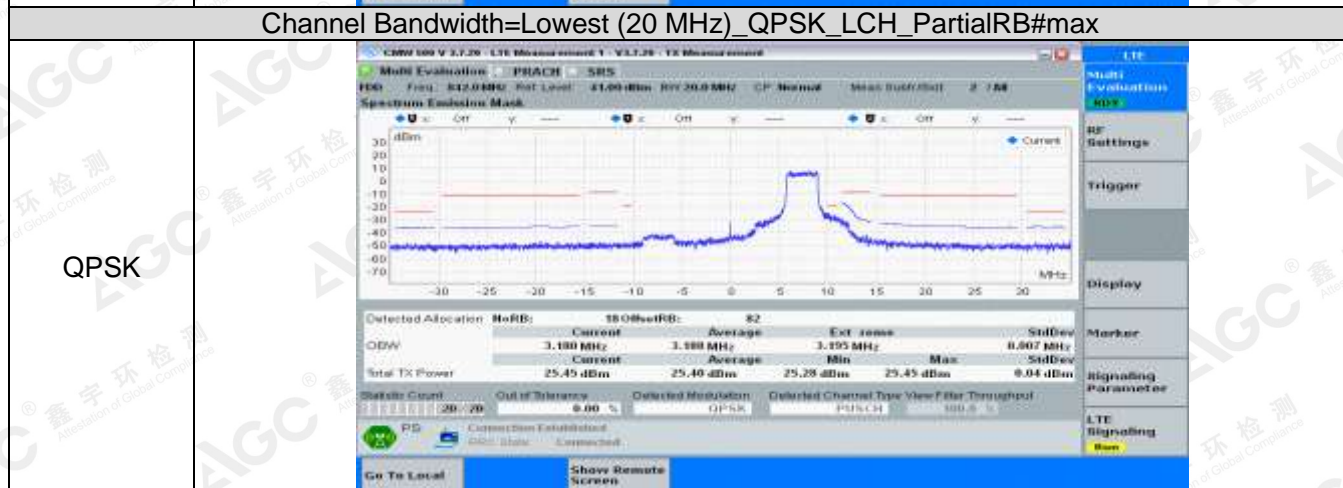
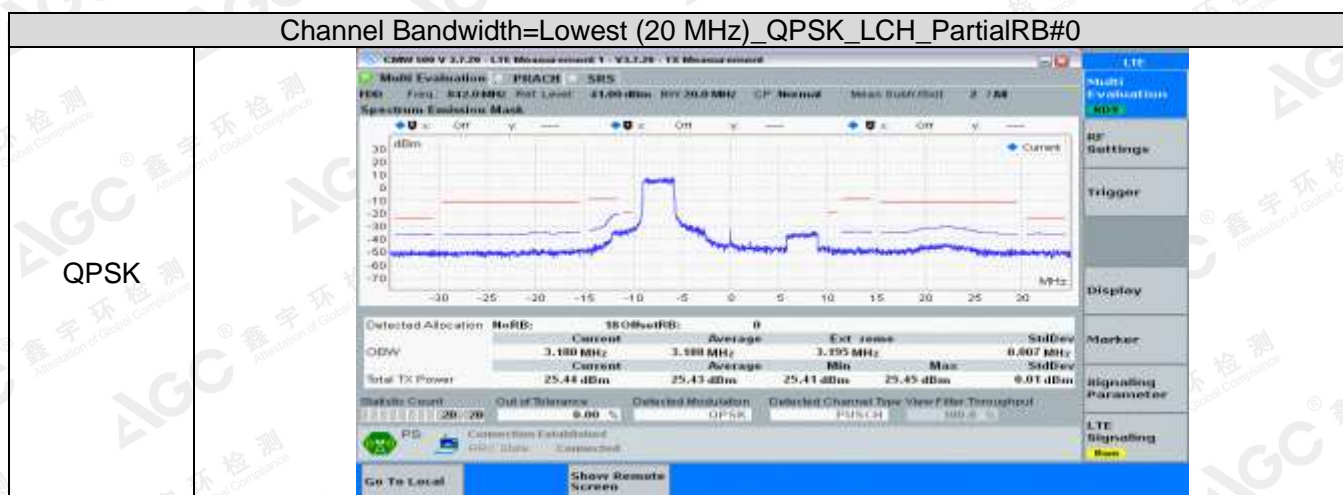
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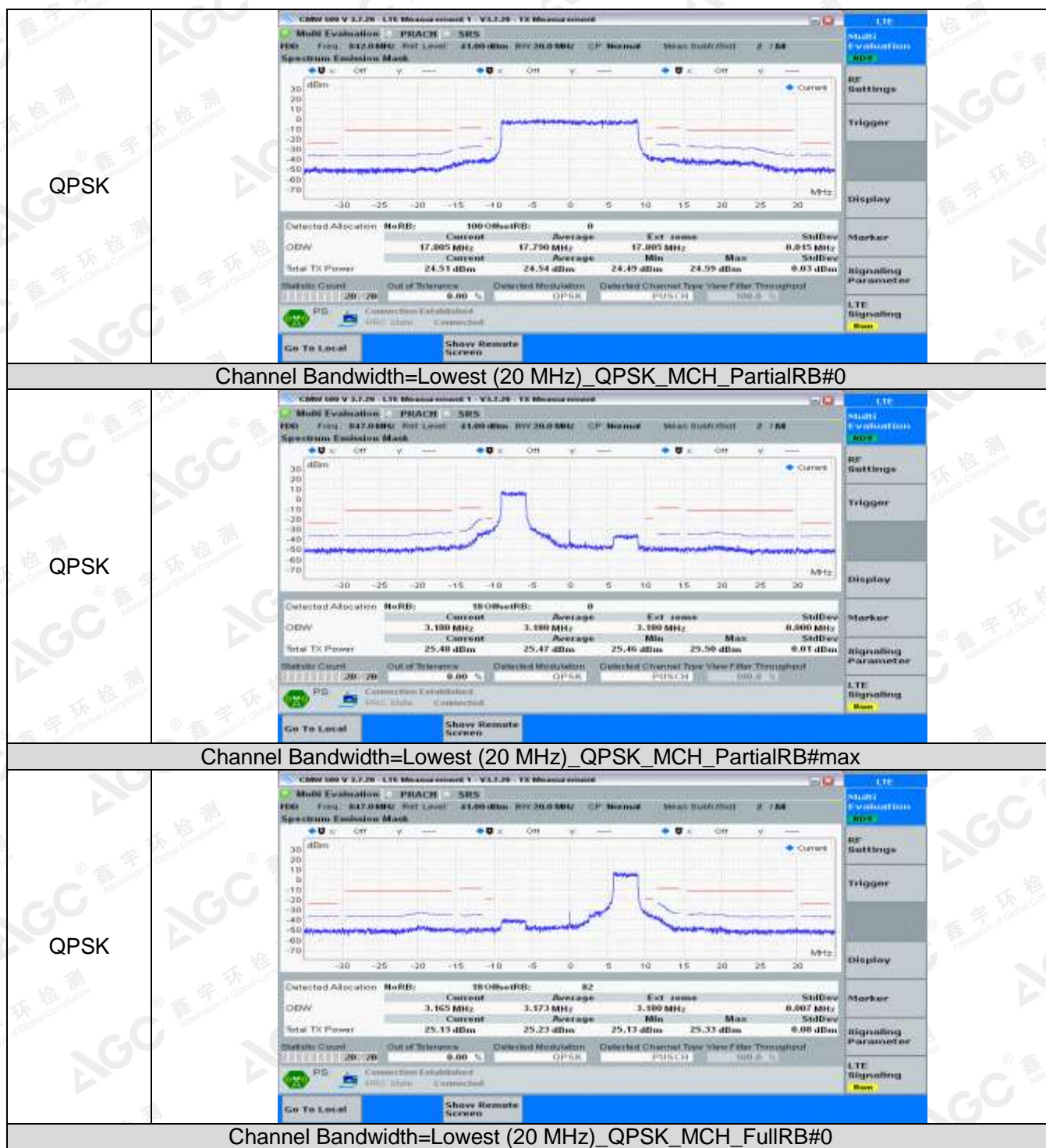


Channel Bandwidth=Highest (20 MHz)



Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0

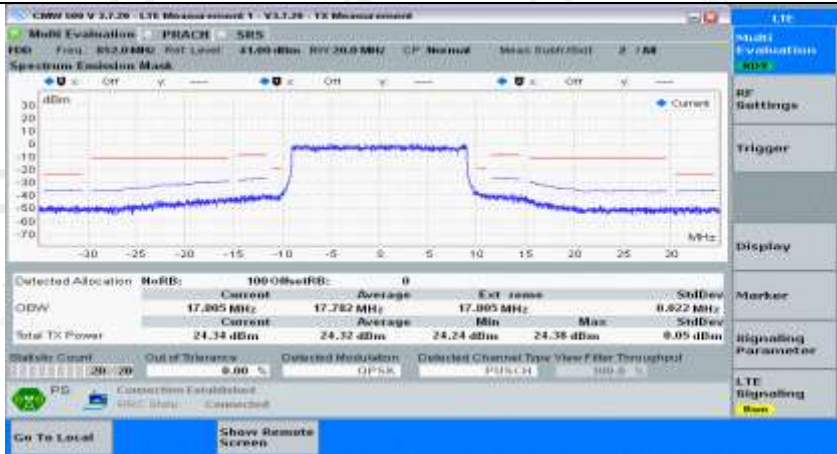
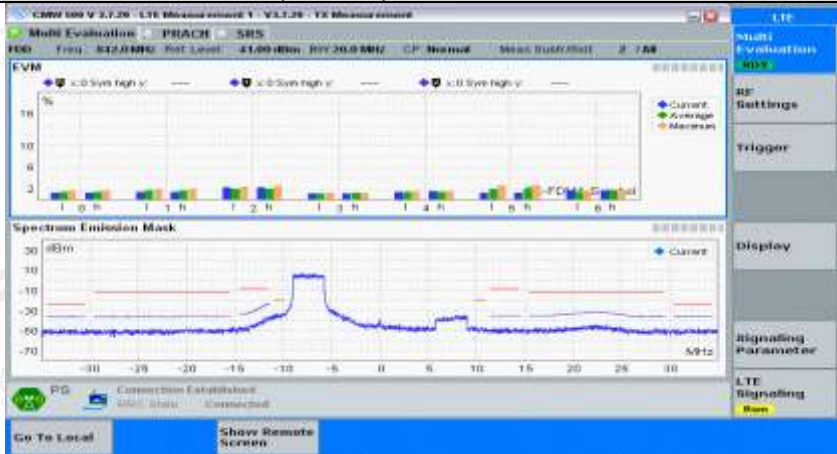
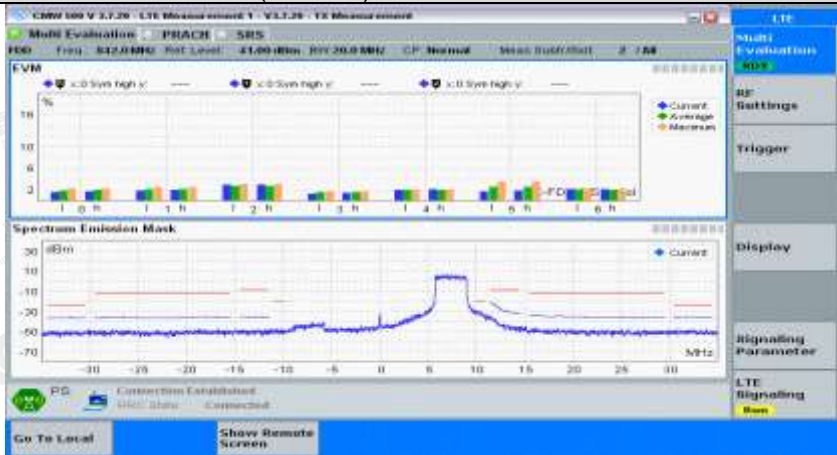
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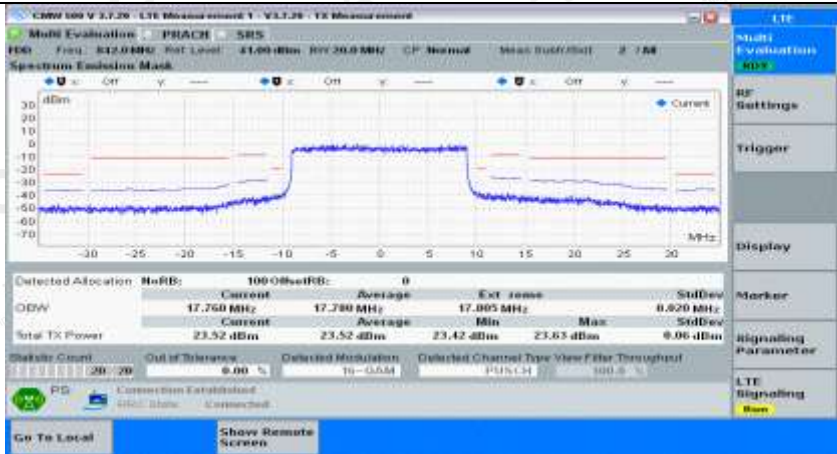
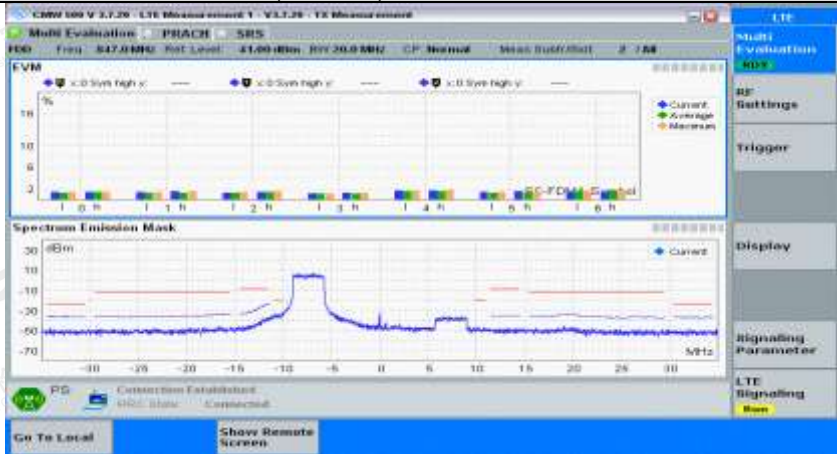
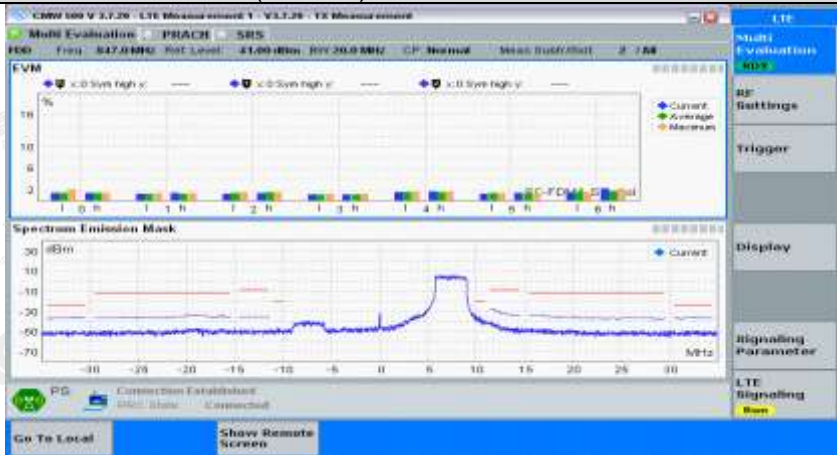
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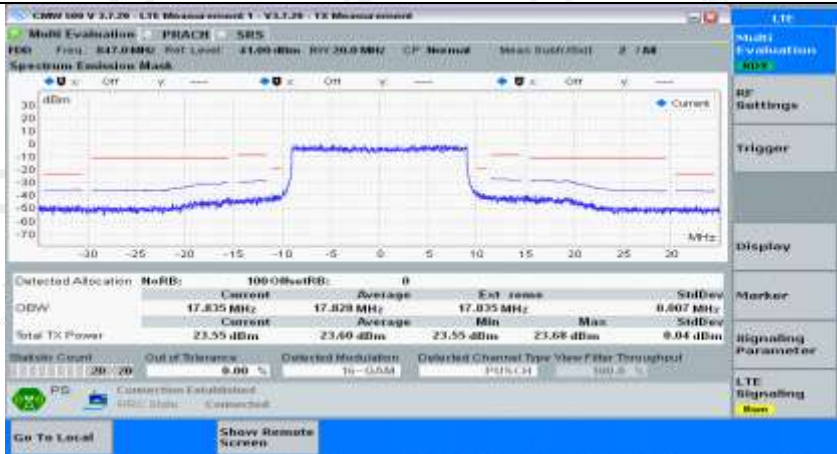
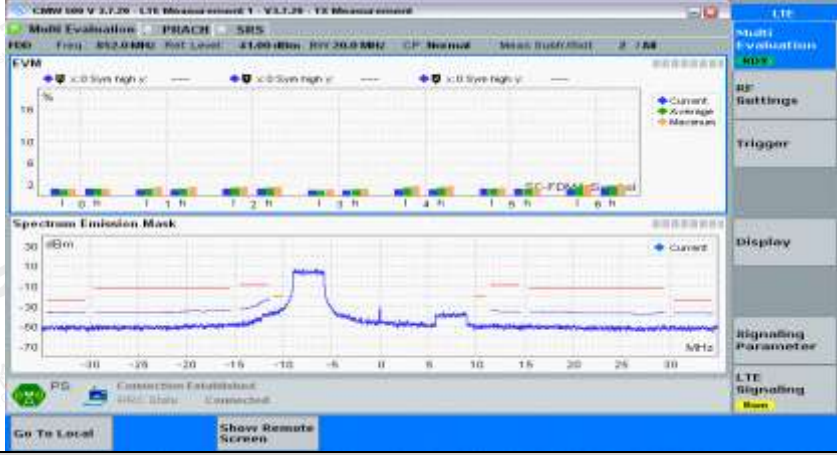
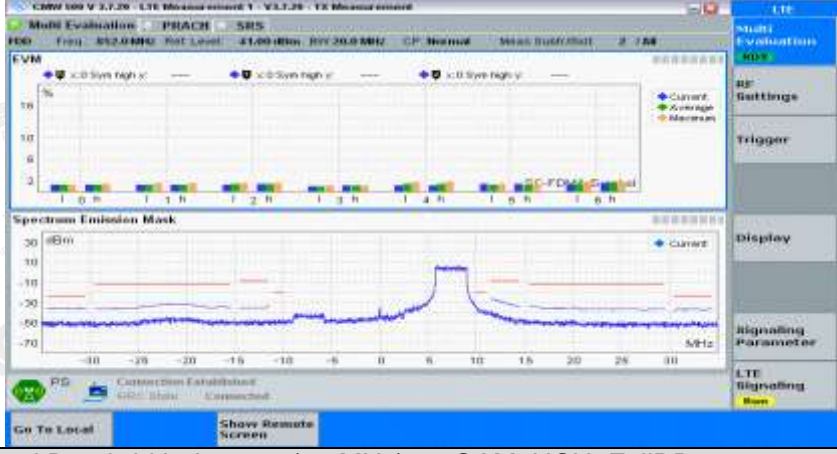
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	

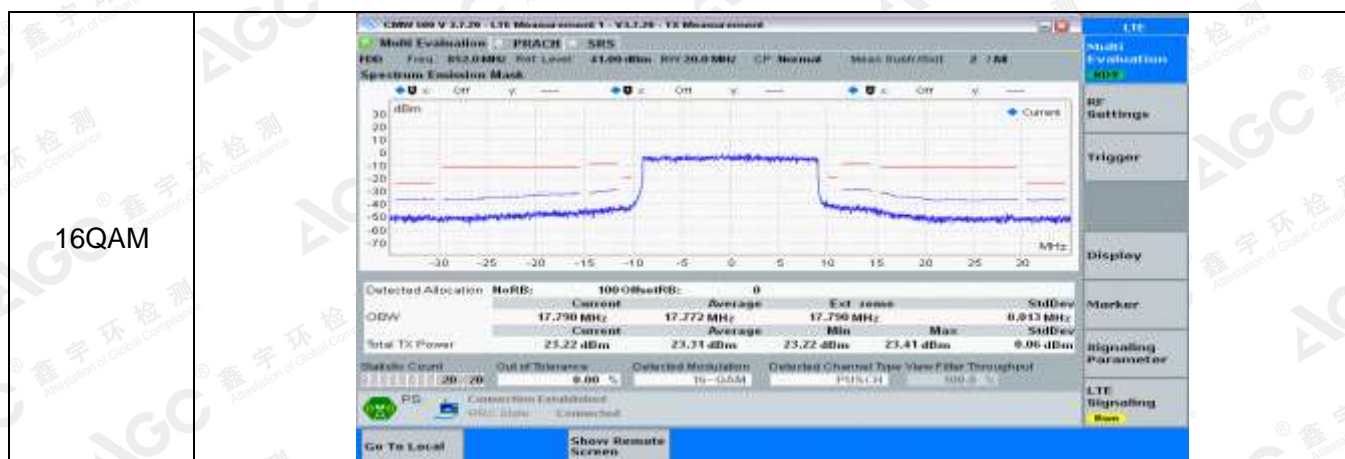
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	High range		Partial	0	PUMAX	Pass	
				max	PUMAX	Pass	
			Full	0	PUMAX	Pass	
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
Full		0		PUMAX	Pass		
High range		Partial	0	PUMAX	Pass		
			max	PUMAX	Pass		
	Full	0	PUMAX	Pass			

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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	16QAM	Low range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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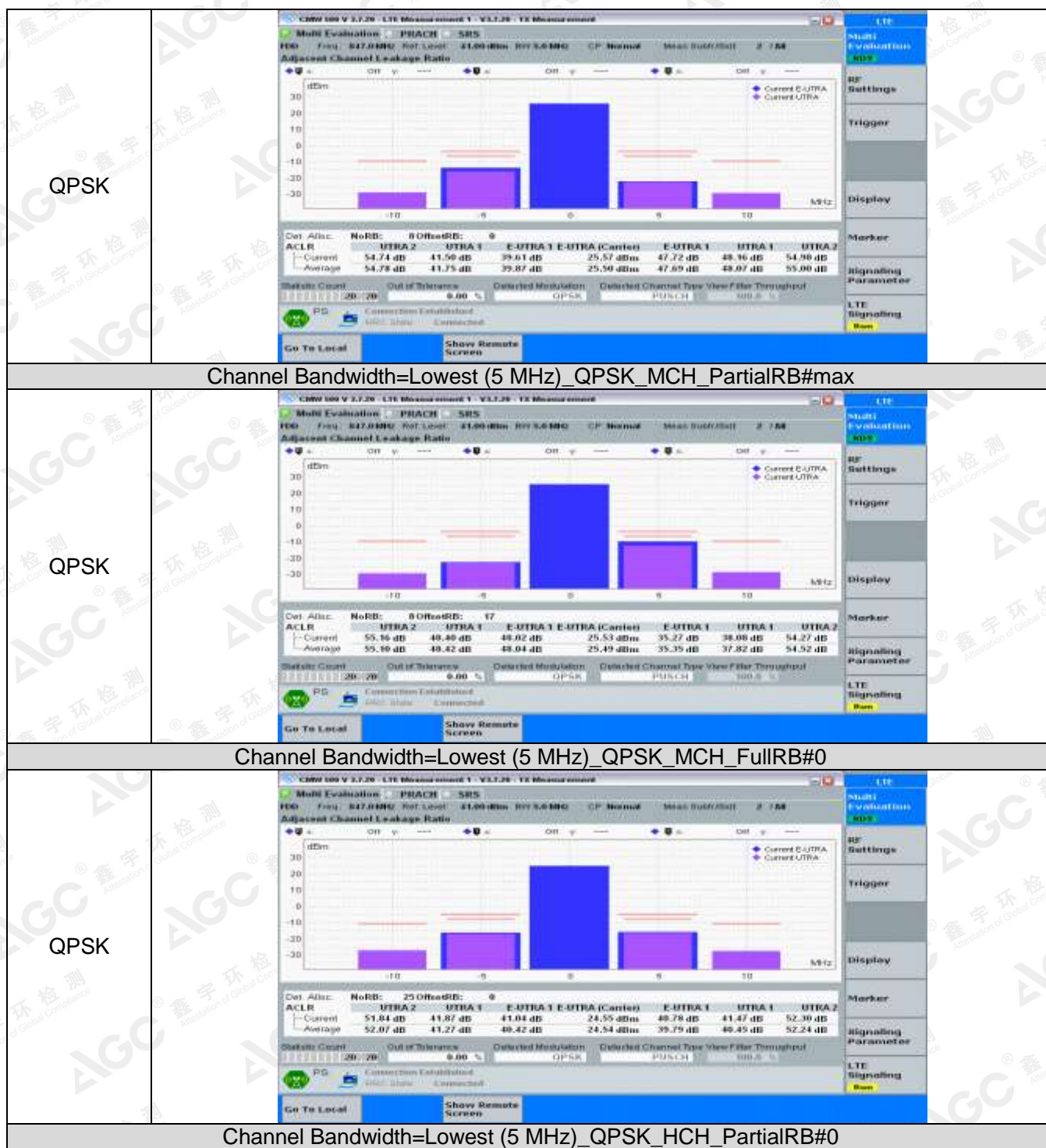
Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)



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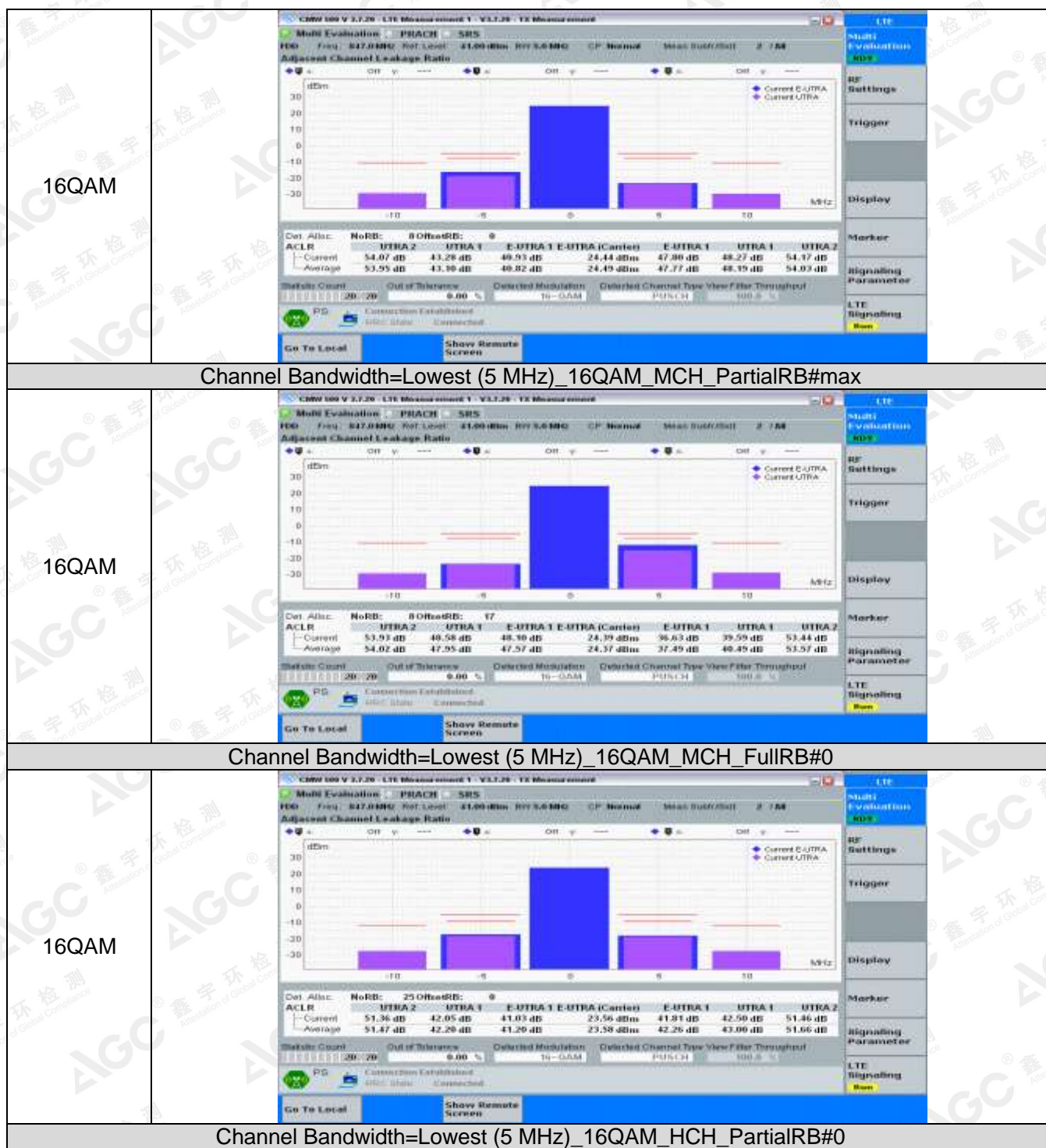
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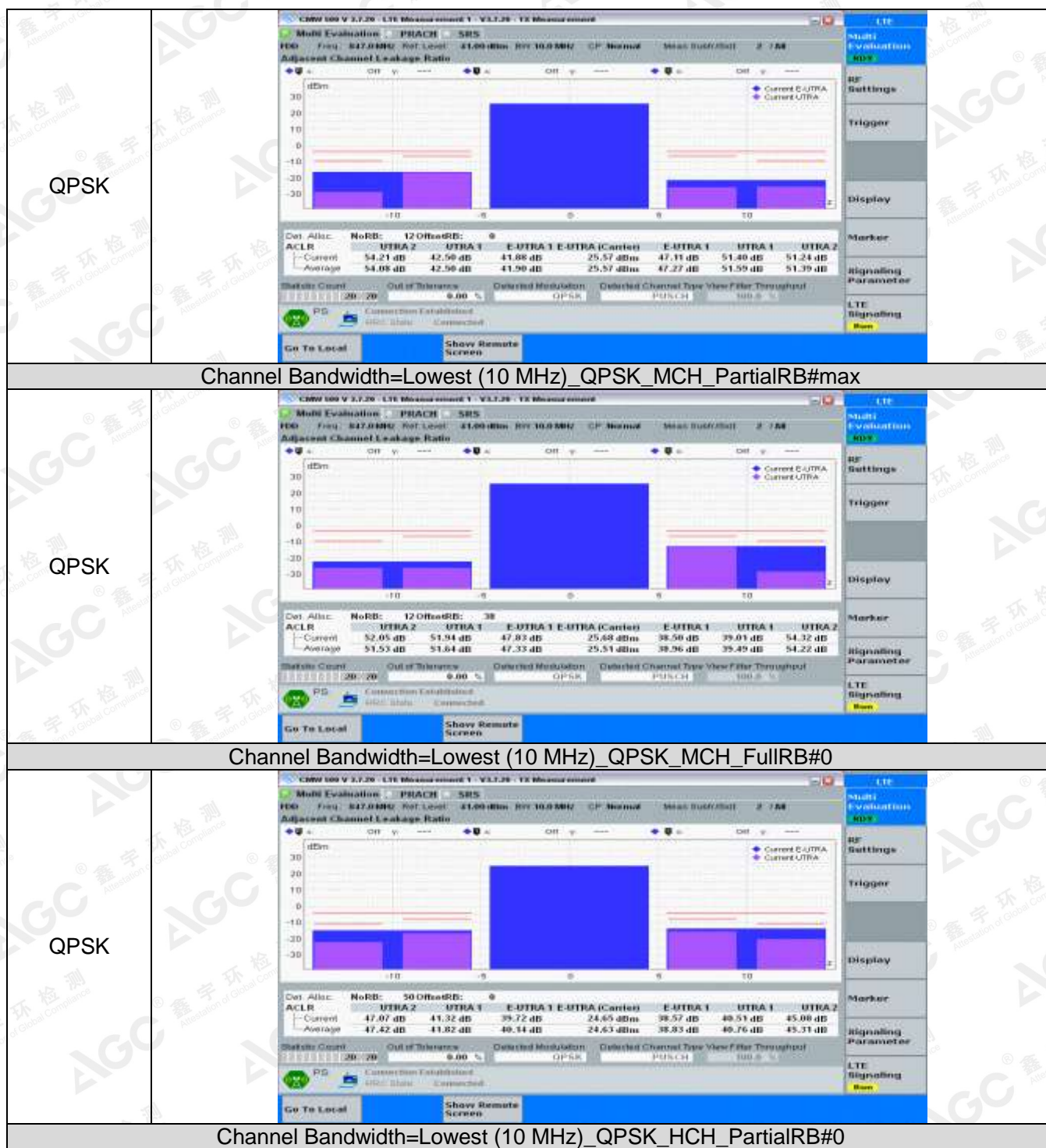
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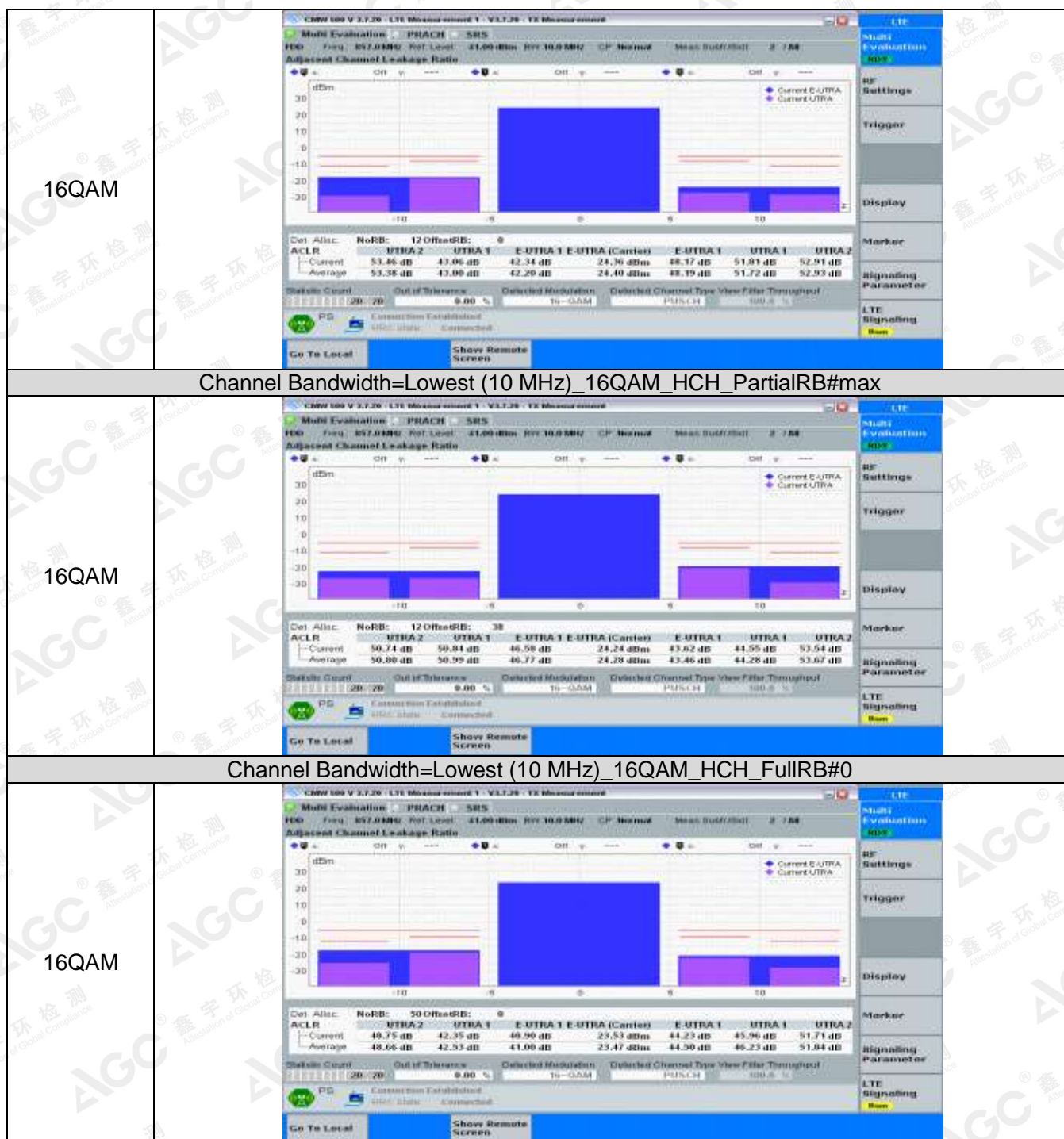
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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

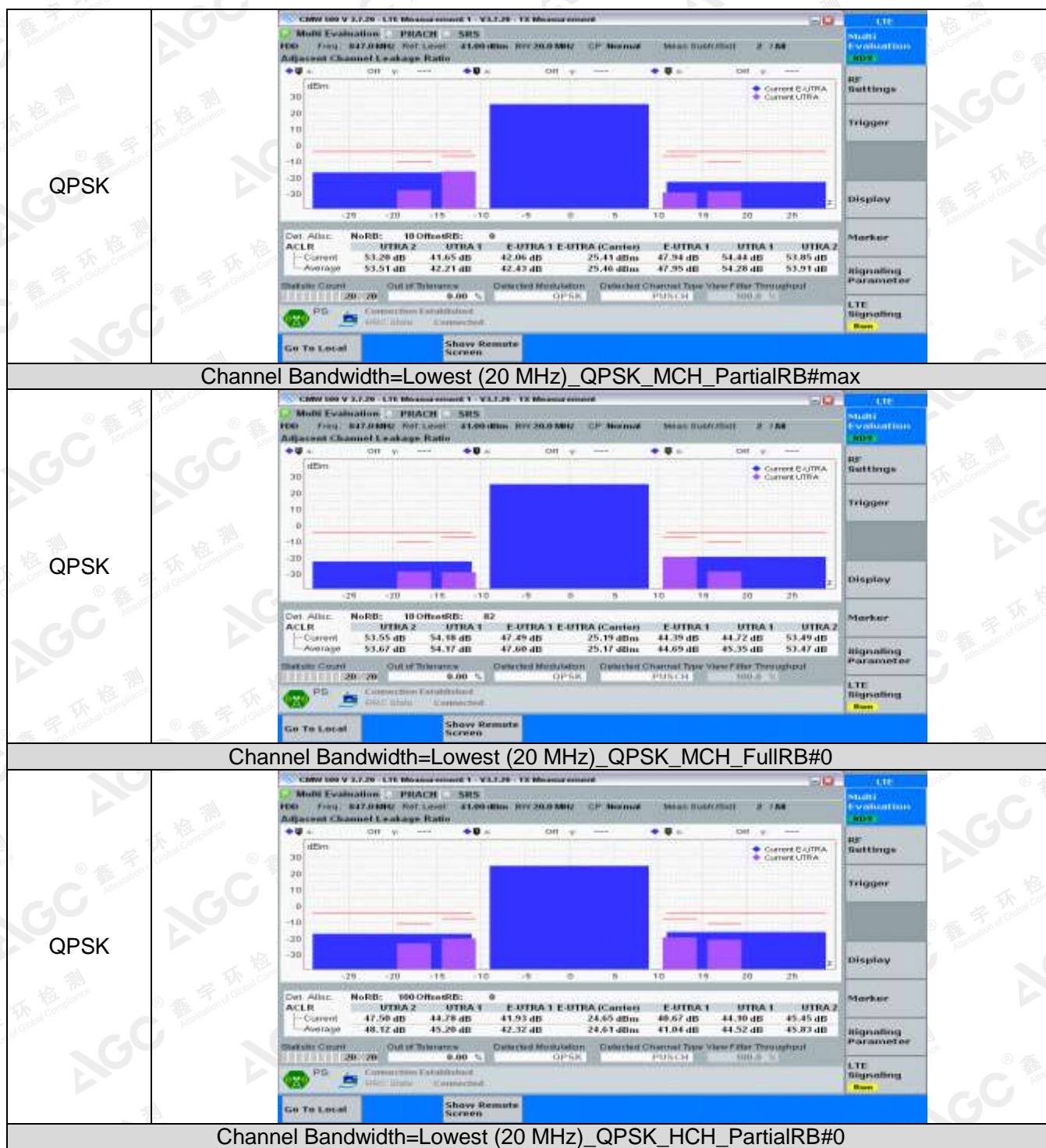
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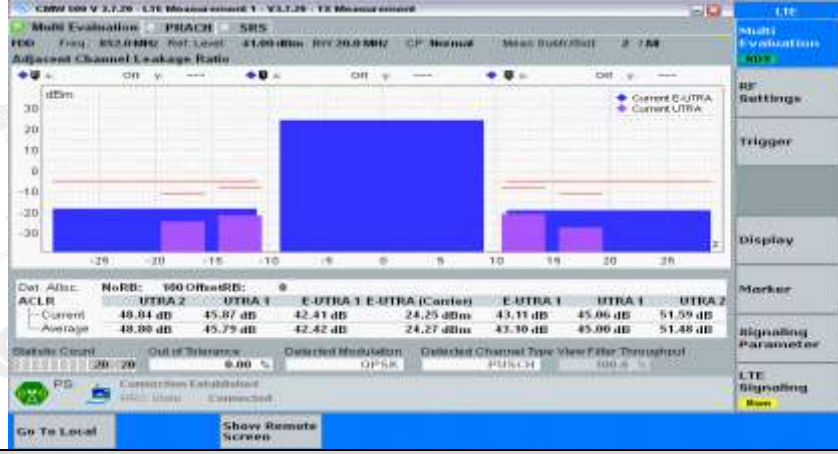
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QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>10 Offs</th><th>8RB</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Center)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>53.23 dB</td><td>42.52 dB</td><td>42.42 dB</td><td>25.49 dBm</td><td>48.50 dB</td><td>54.32 dB</td><td>54.75 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>53.26 dB</td><td>42.52 dB</td><td>42.30 dB</td><td>25.44 dBm</td><td>48.47 dB</td><td>54.13 dB</td><td>54.65 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	10 Offs	8RB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2	Current	53.23 dB	42.52 dB	42.42 dB	25.49 dBm	48.50 dB	54.32 dB	54.75 dB				Average	53.26 dB	42.52 dB	42.30 dB	25.44 dBm	48.47 dB	54.13 dB	54.65 dB			
Det. Alloc.	NoRB	10 Offs	8RB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2																								
Current	53.23 dB	42.52 dB	42.42 dB	25.49 dBm	48.50 dB	54.32 dB	54.75 dB																											
Average	53.26 dB	42.52 dB	42.30 dB	25.44 dBm	48.47 dB	54.13 dB	54.65 dB																											
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max																																		
QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>10 Offs</th><th>8RB</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Center)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>53.27 dB</td><td>54.05 dB</td><td>45.91 dB</td><td>25.25 dBm</td><td>43.92 dB</td><td>44.07 dB</td><td>54.13 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>53.17 dB</td><td>53.94 dB</td><td>45.89 dB</td><td>25.25 dBm</td><td>43.84 dB</td><td>44.06 dB</td><td>54.34 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	10 Offs	8RB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2	Current	53.27 dB	54.05 dB	45.91 dB	25.25 dBm	43.92 dB	44.07 dB	54.13 dB				Average	53.17 dB	53.94 dB	45.89 dB	25.25 dBm	43.84 dB	44.06 dB	54.34 dB			
Det. Alloc.	NoRB	10 Offs	8RB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2																								
Current	53.27 dB	54.05 dB	45.91 dB	25.25 dBm	43.92 dB	44.07 dB	54.13 dB																											
Average	53.17 dB	53.94 dB	45.89 dB	25.25 dBm	43.84 dB	44.06 dB	54.34 dB																											
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullIRB#0																																		
QPSK	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>10 Offs</th><th>8RB</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Center)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>48.84 dB</td><td>45.87 dB</td><td>42.41 dB</td><td>24.25 dBm</td><td>43.11 dB</td><td>45.06 dB</td><td>51.59 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>48.80 dB</td><td>45.73 dB</td><td>42.42 dB</td><td>24.27 dBm</td><td>43.30 dB</td><td>45.00 dB</td><td>51.48 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	10 Offs	8RB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2	Current	48.84 dB	45.87 dB	42.41 dB	24.25 dBm	43.11 dB	45.06 dB	51.59 dB				Average	48.80 dB	45.73 dB	42.42 dB	24.27 dBm	43.30 dB	45.00 dB	51.48 dB			
Det. Alloc.	NoRB	10 Offs	8RB	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Center)	E-UTRA 1	UTRA 1	UTRA 2																								
Current	48.84 dB	45.87 dB	42.41 dB	24.25 dBm	43.11 dB	45.06 dB	51.59 dB																											
Average	48.80 dB	45.73 dB	42.42 dB	24.27 dBm	43.30 dB	45.00 dB	51.48 dB																											
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0																																		

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

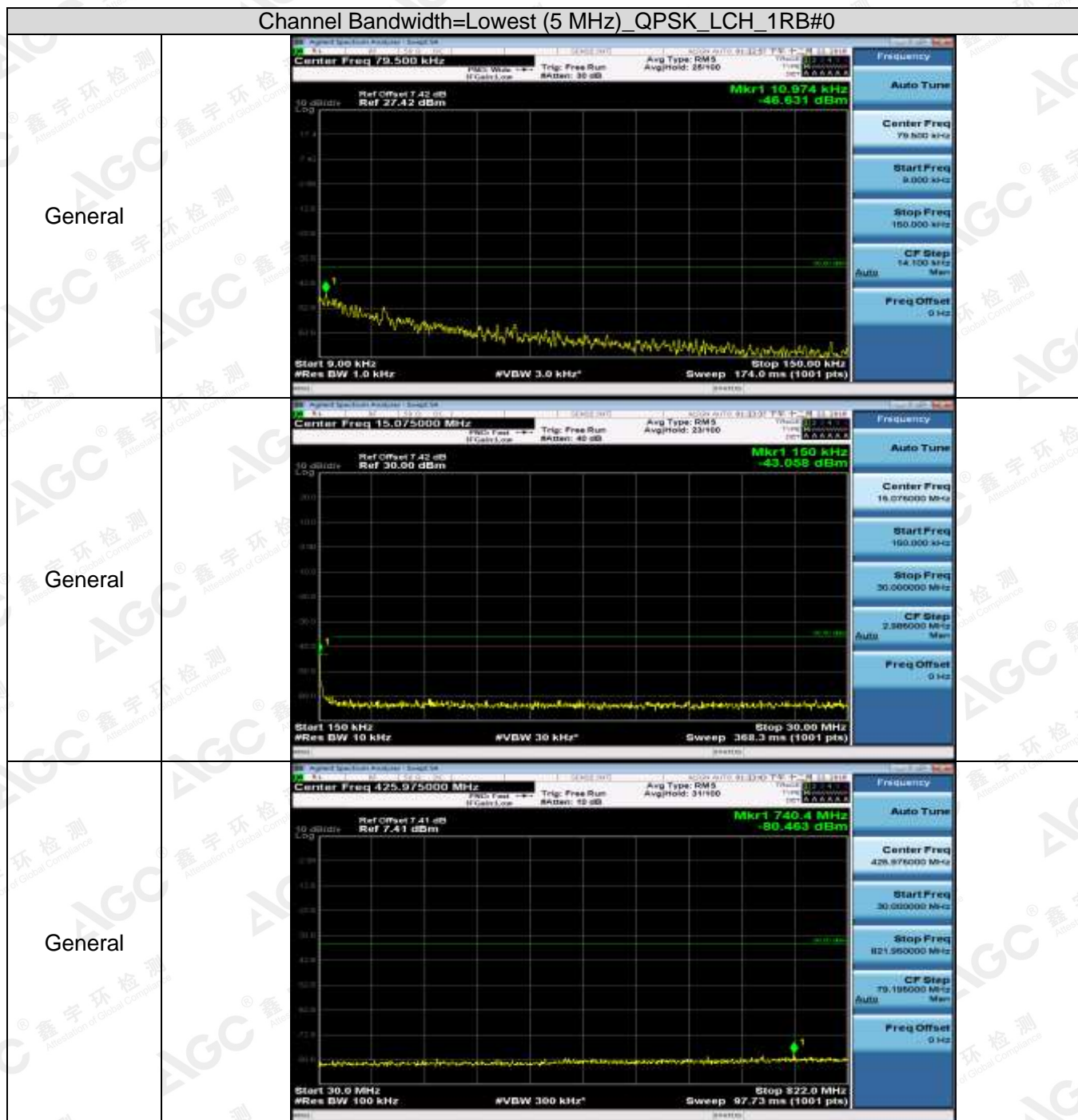
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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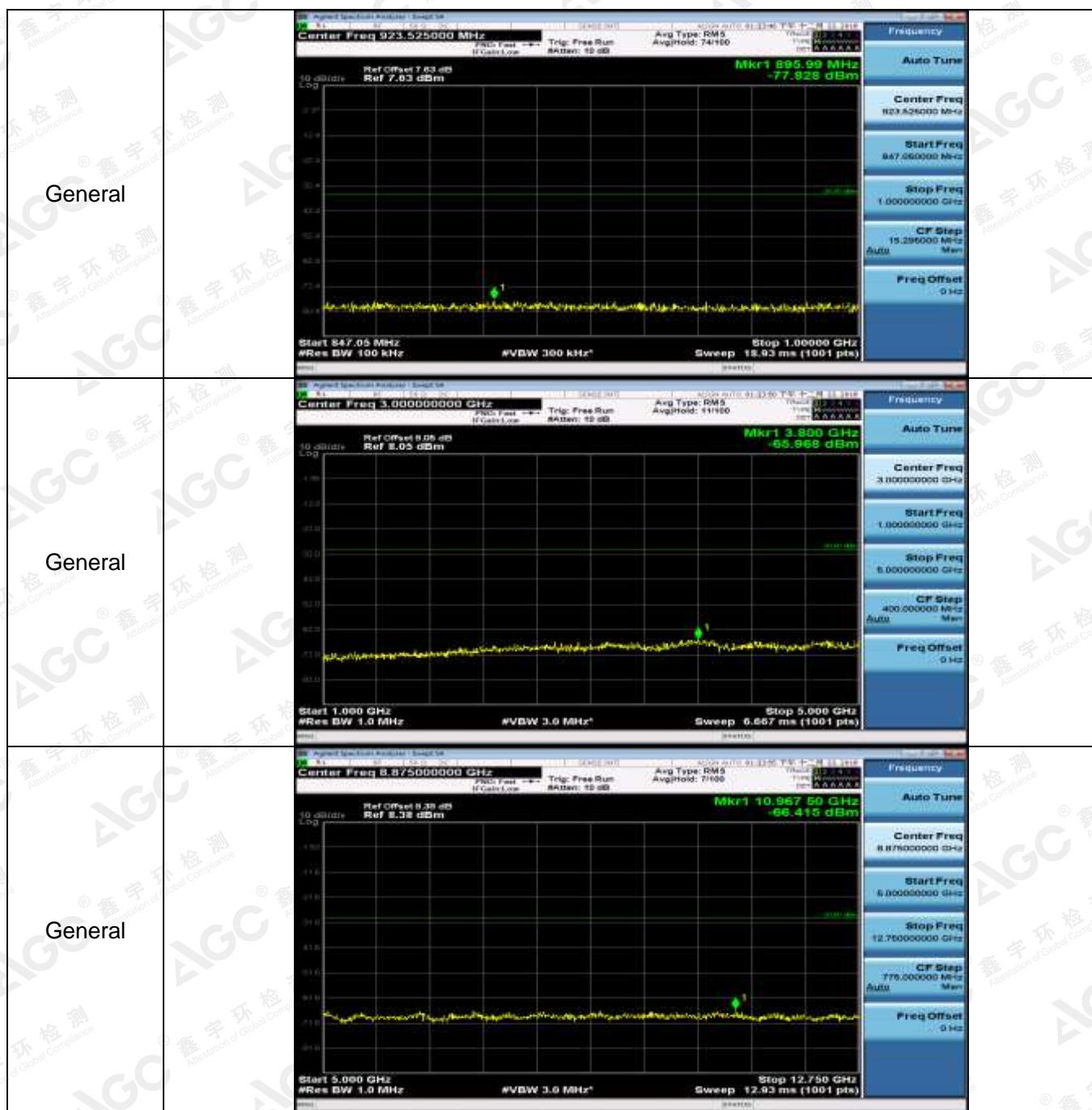
Test Graphs

NTNV

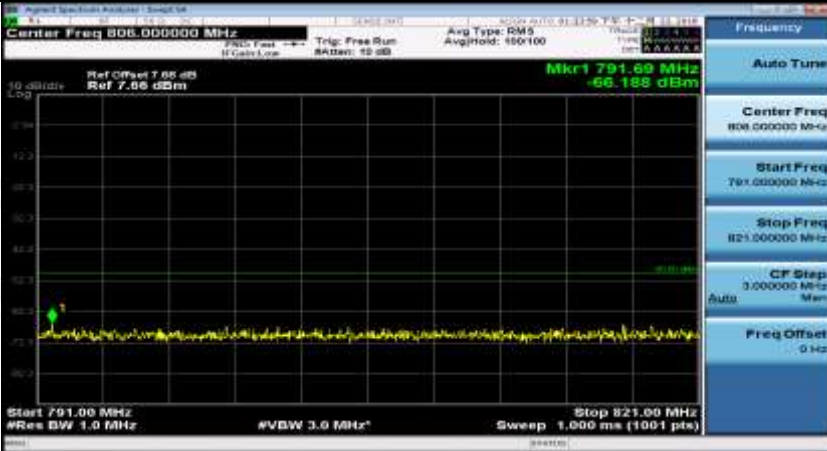
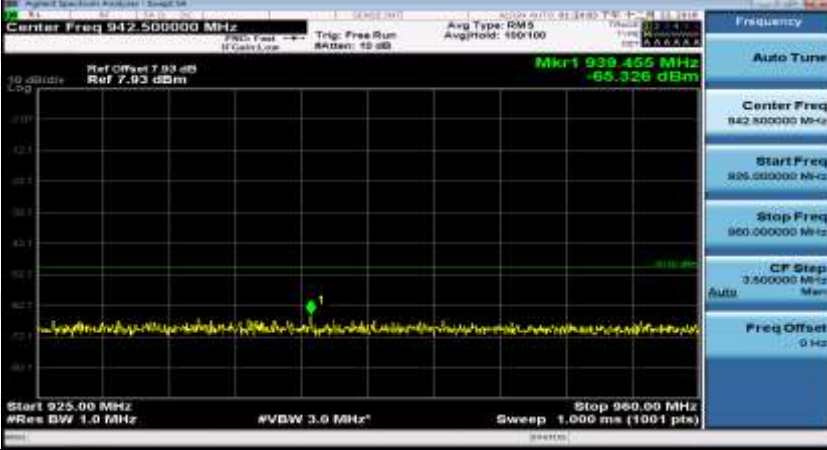
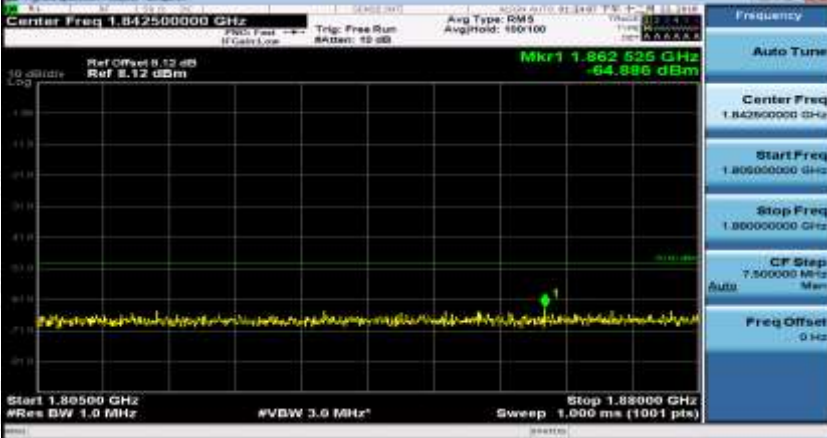
Channel Bandwidth=Lowest (5 MHz)



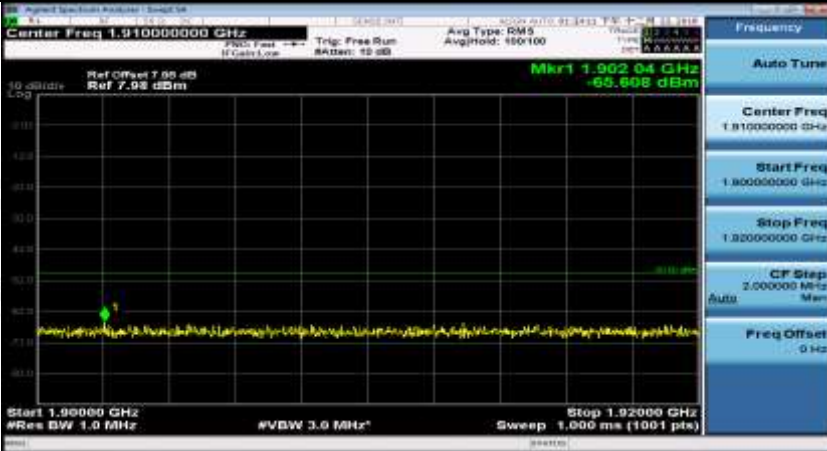
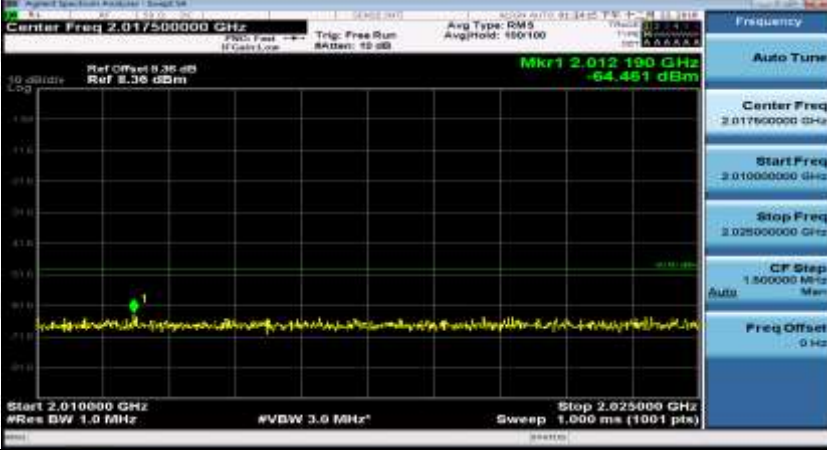
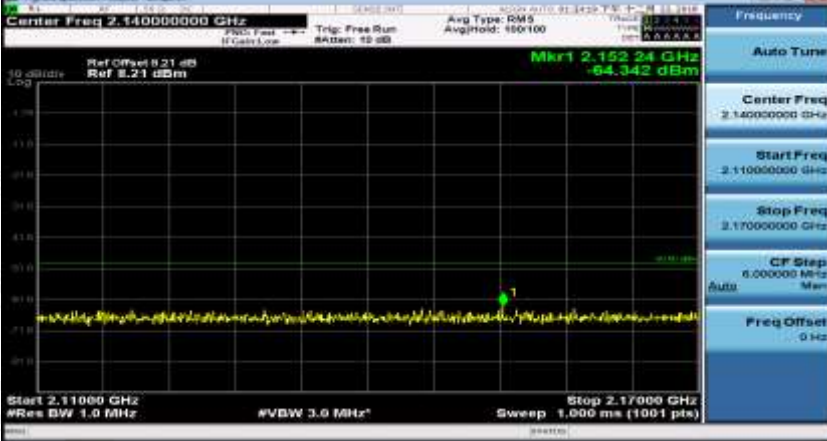
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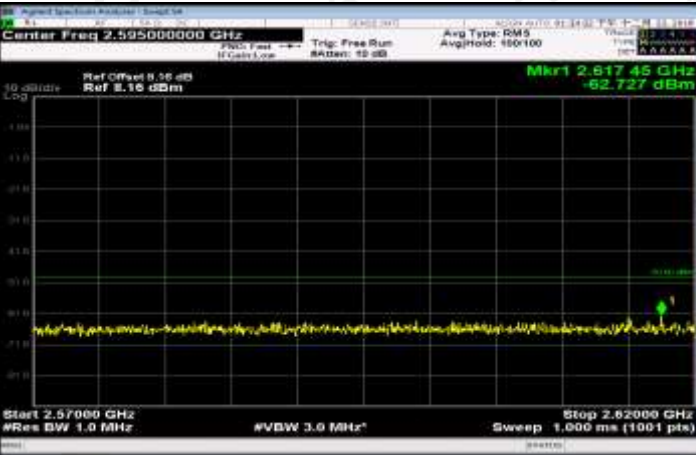
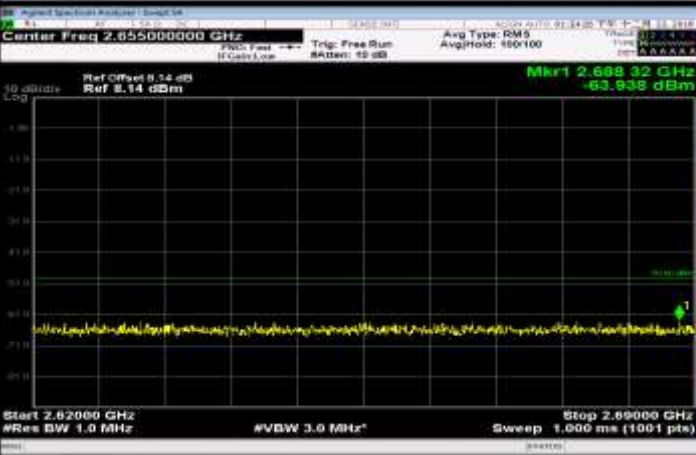
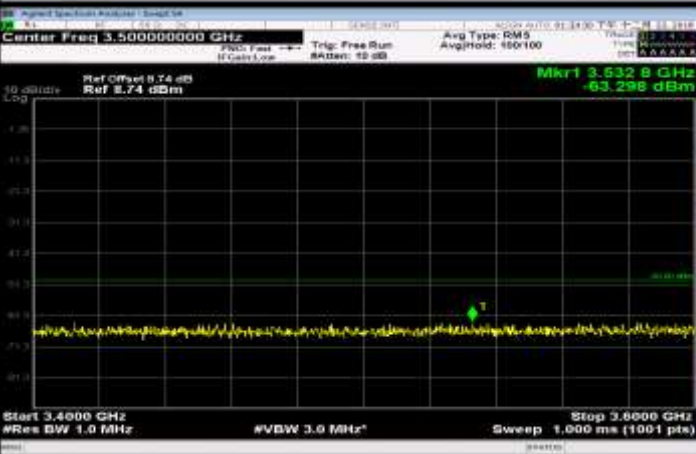
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Co-existence	
Co-existence	
Co-existence	

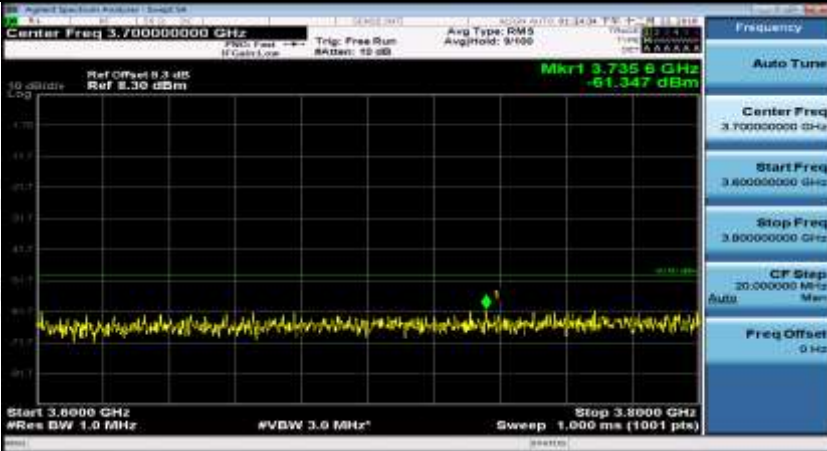
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Co-existence	
Co-existence	
Co-existence	

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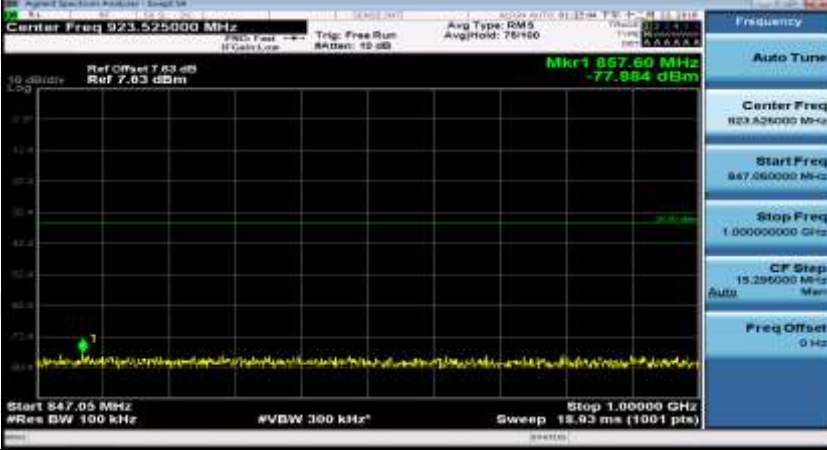
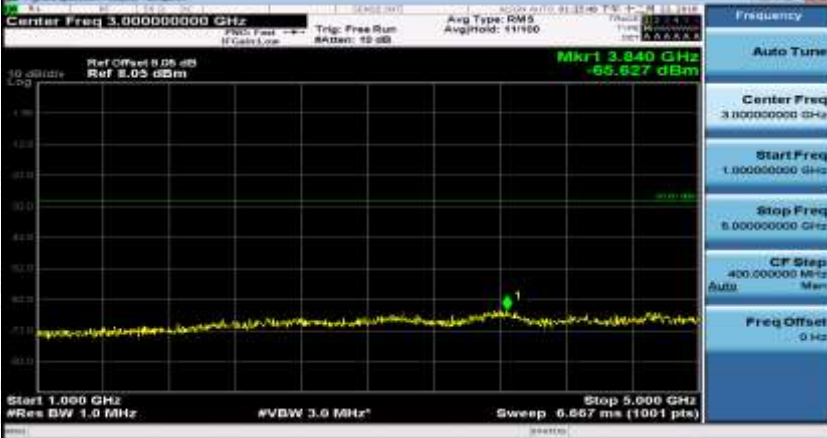
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.55000000 GHz</p> <p>Start Freq 2.57000000 GHz</p> <p>Stop Freq 2.62000000 GHz</p> <p>CF Step 6.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.65000000 GHz</p> <p>Start Freq 2.62000000 GHz</p> <p>Stop Freq 2.68000000 GHz</p> <p>CF Step 7.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.50000000 GHz</p> <p>Start Freq 3.40000000 GHz</p> <p>Stop Freq 3.60000000 GHz</p> <p>CF Step 20.000000 MHz</p> <p>Freq Offset 0 Hz</p>

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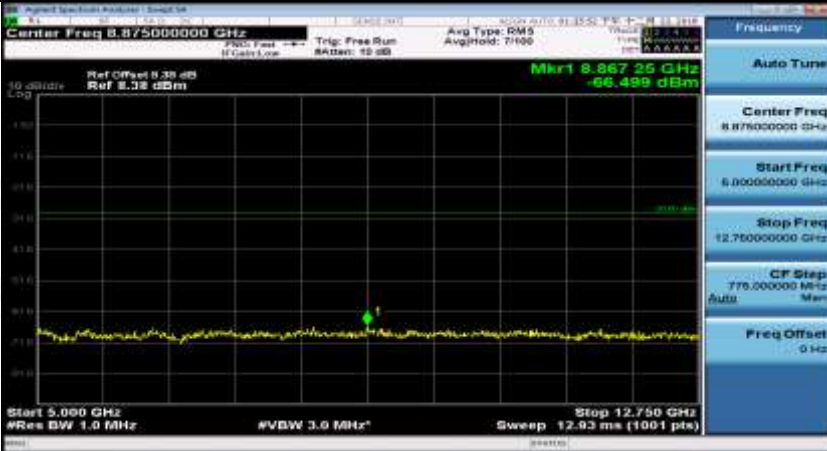
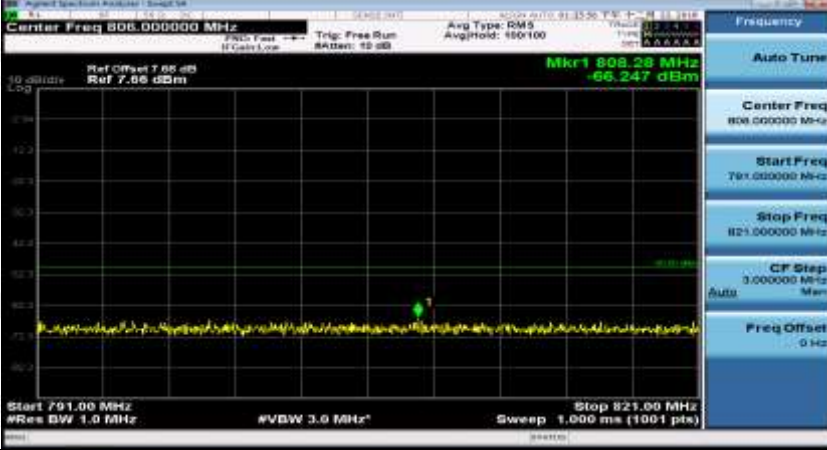
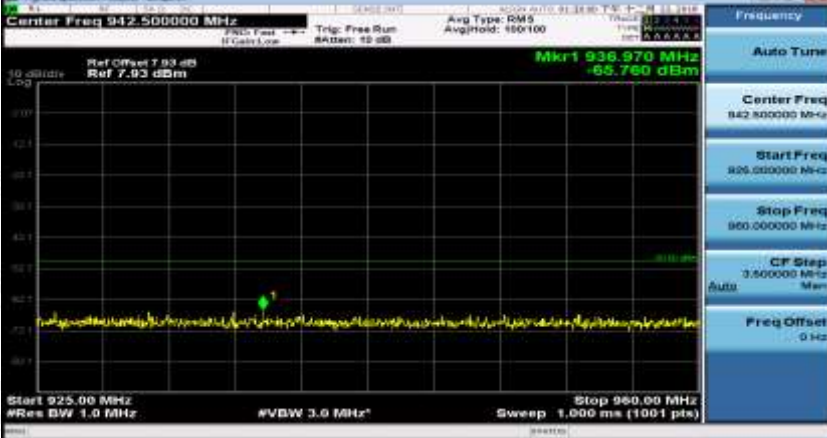
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	
General	

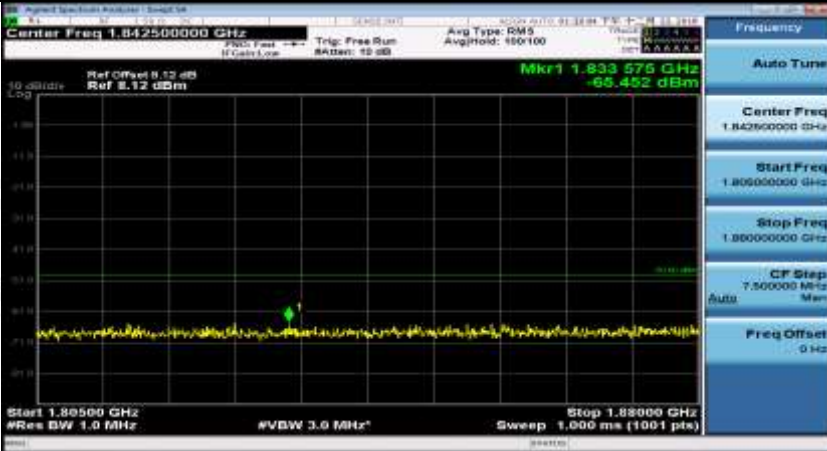
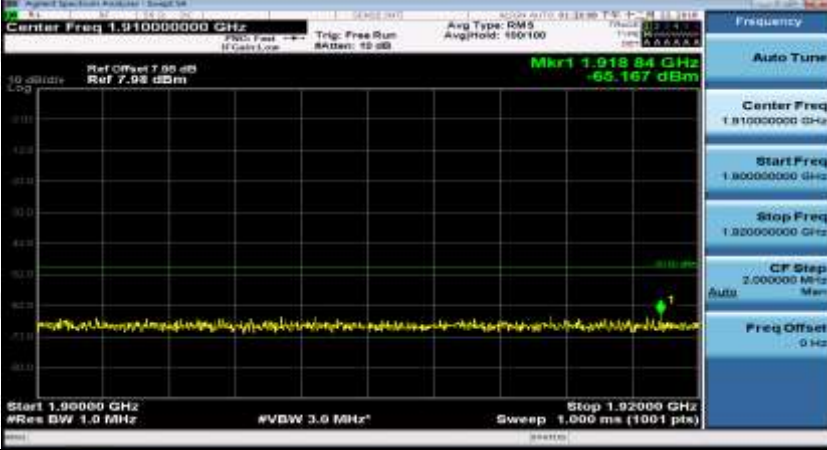
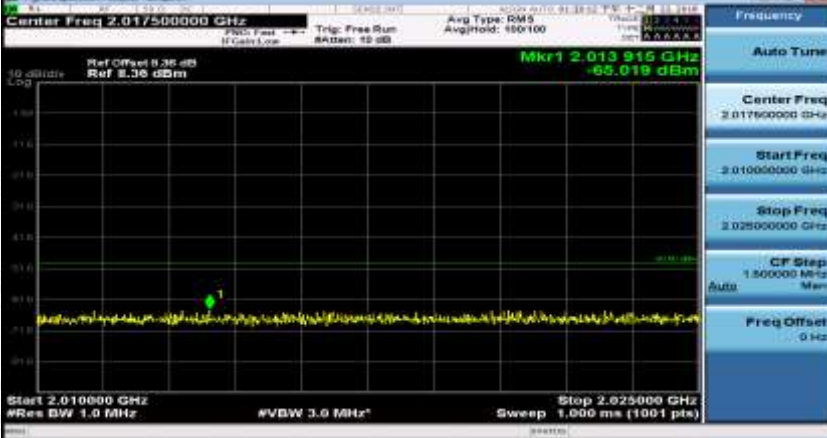
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General	
General	
General	

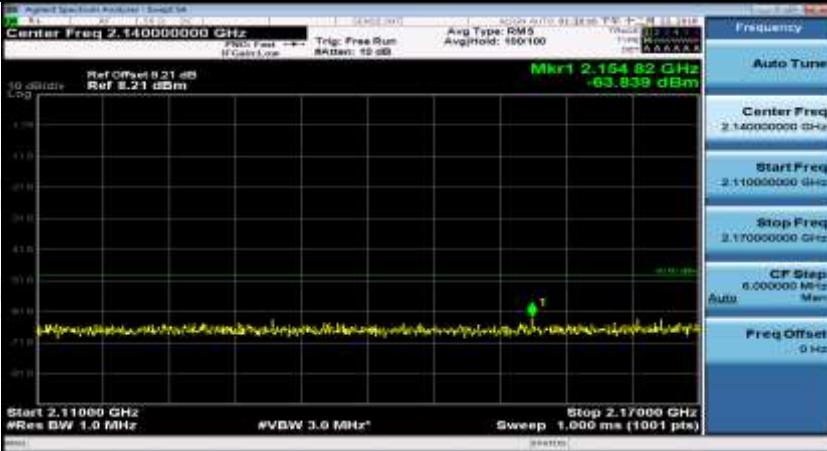
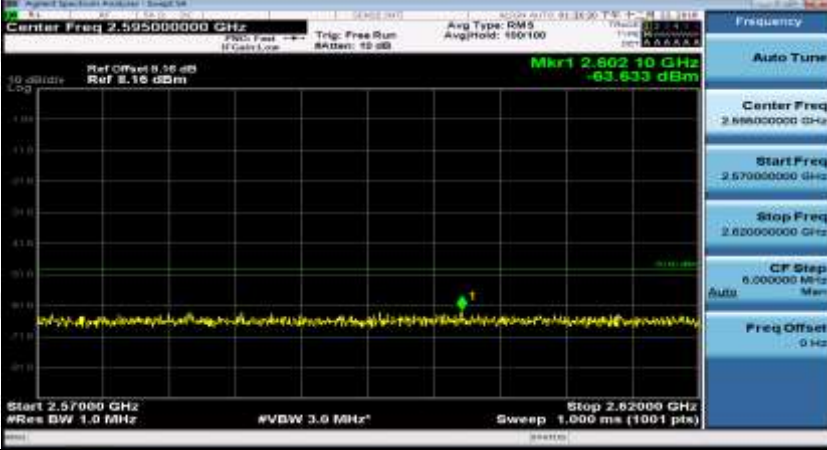
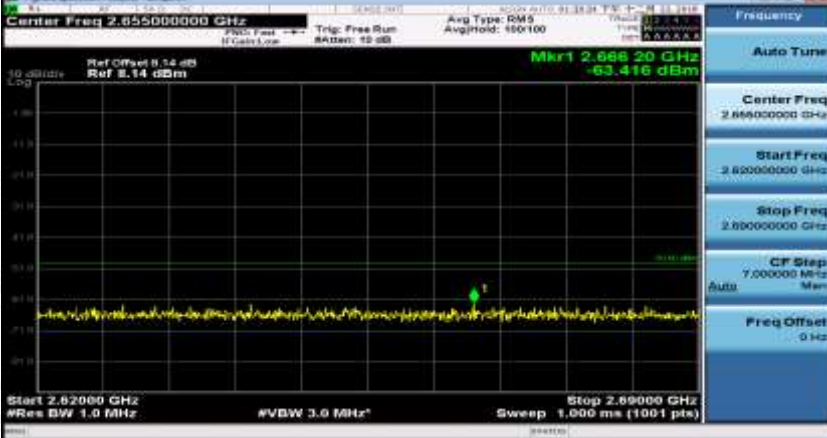
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General	
Co-existence	
Co-existence	


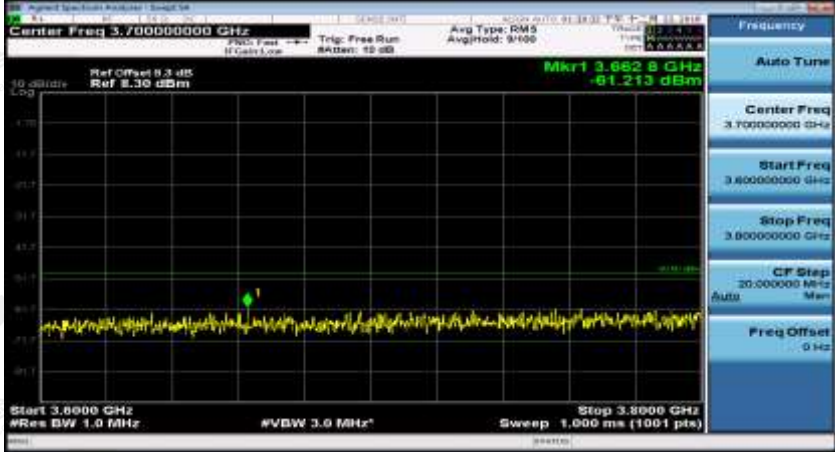
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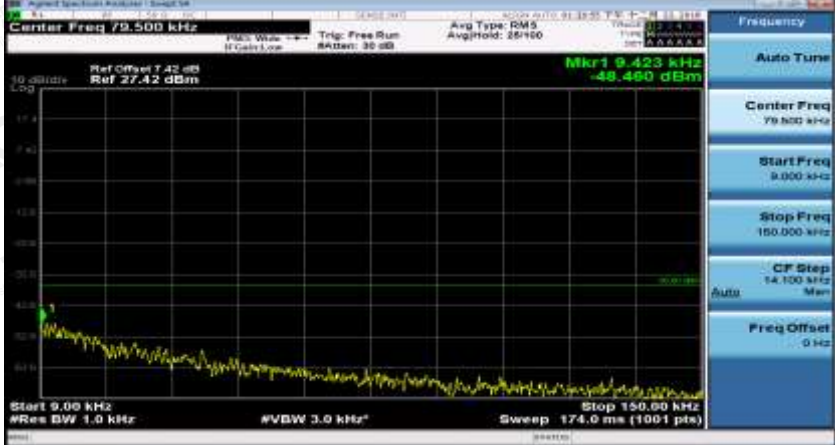
Co-existence	
Co-existence	
Co-existence	

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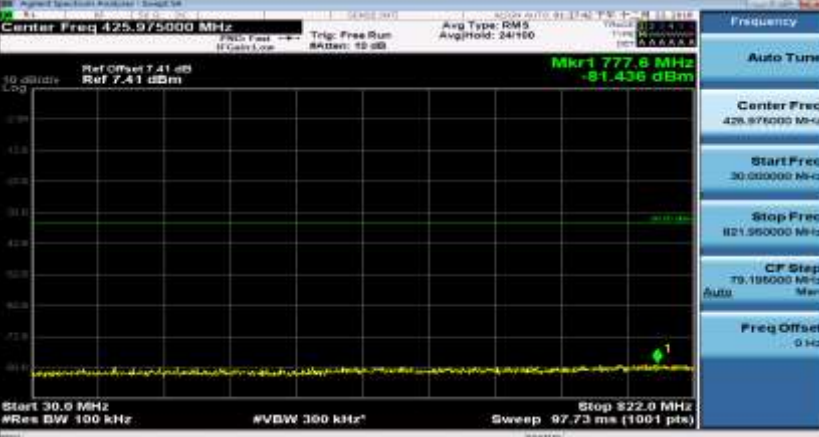
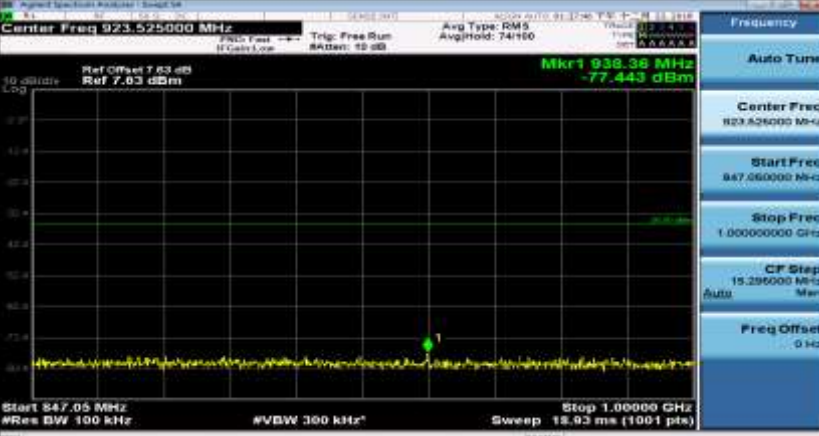
Co-existence	
Co-existence	
Co-existence	

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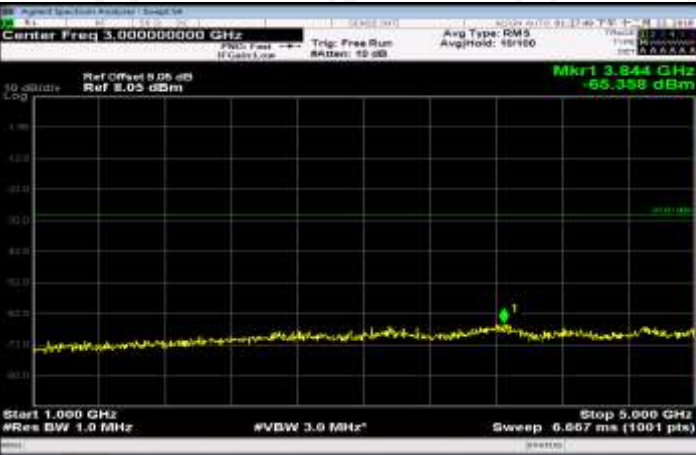

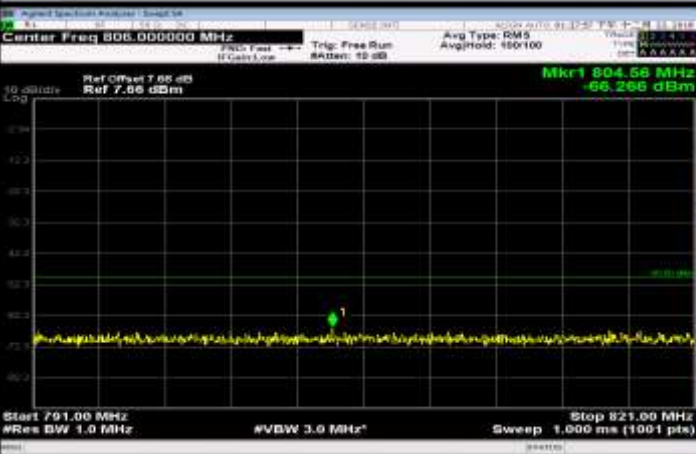
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
General	


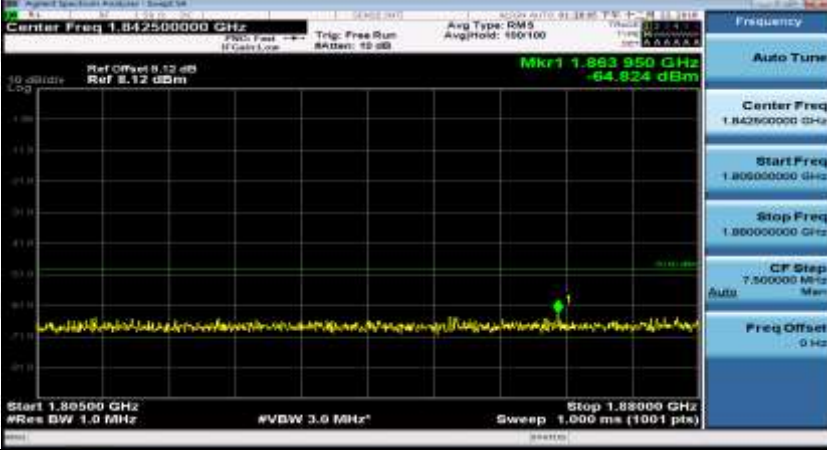
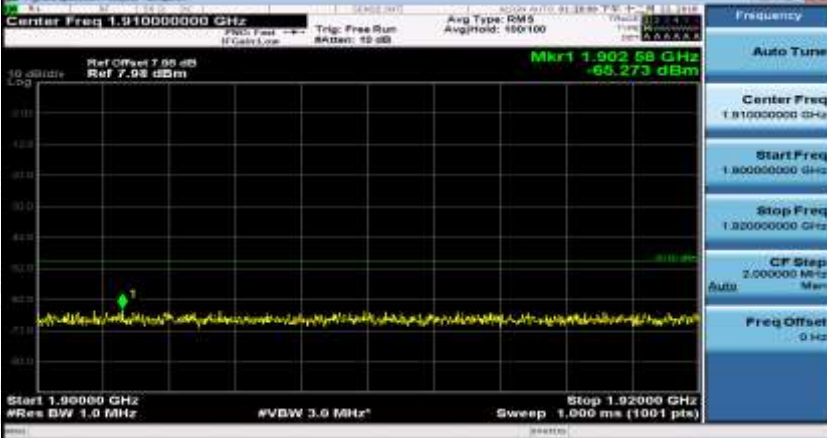
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General			
General			
General			

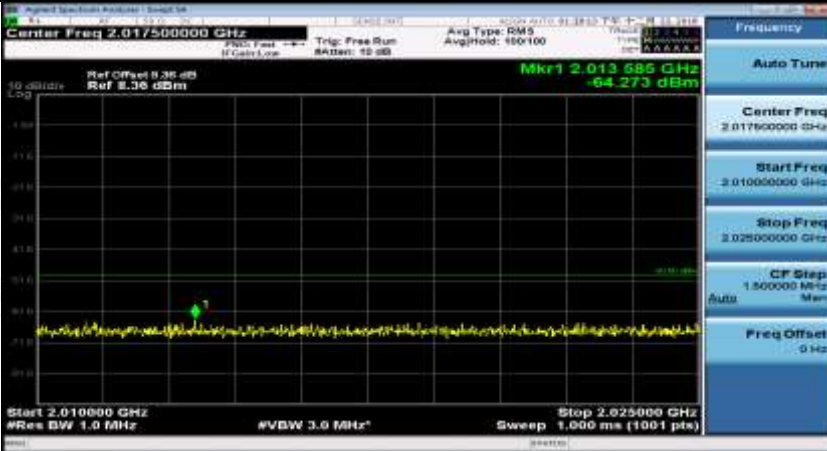
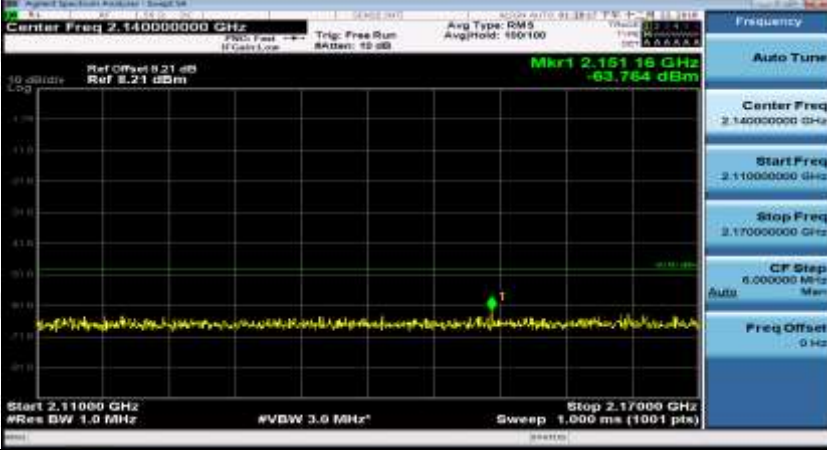
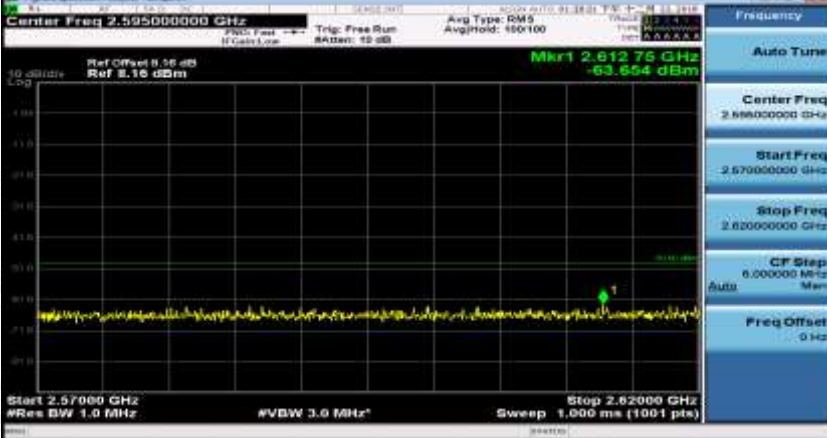
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.00000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 784.000000 MHz</p> <p>Stop Freq 824.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

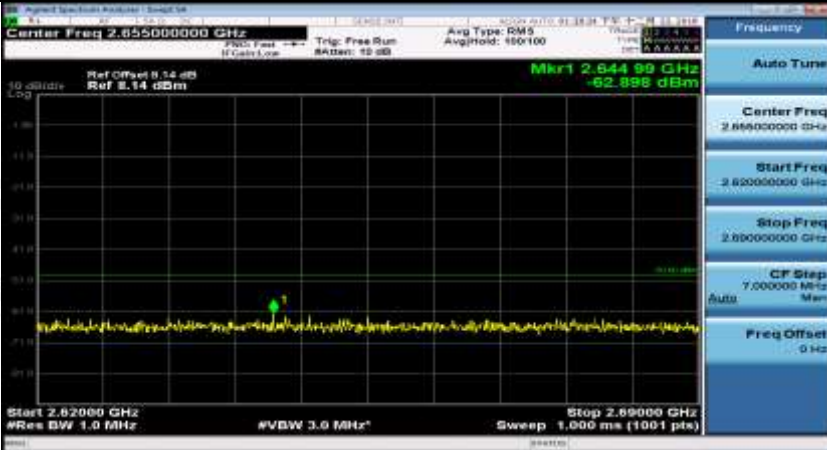
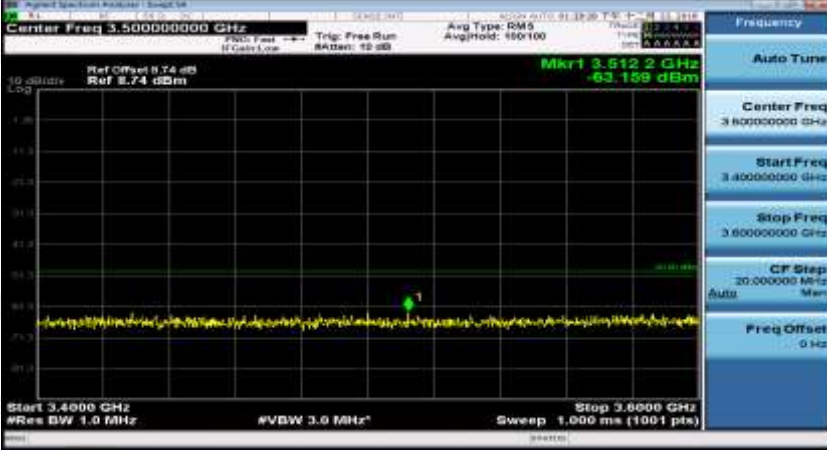
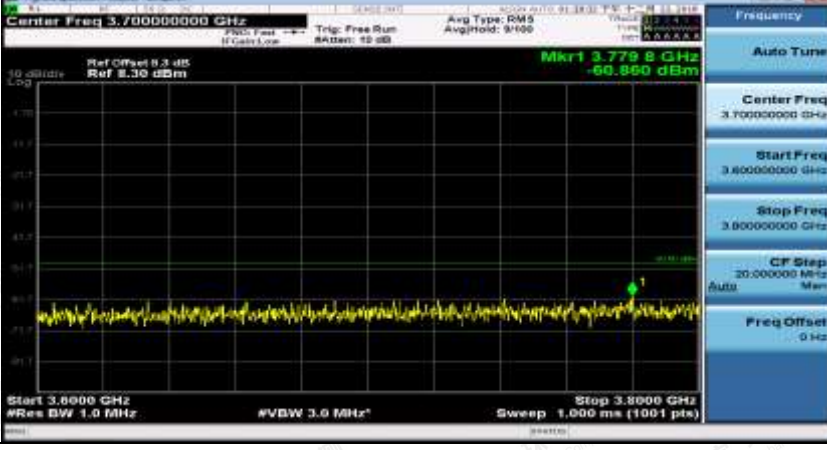
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Co-existence	
Co-existence	
Co-existence	

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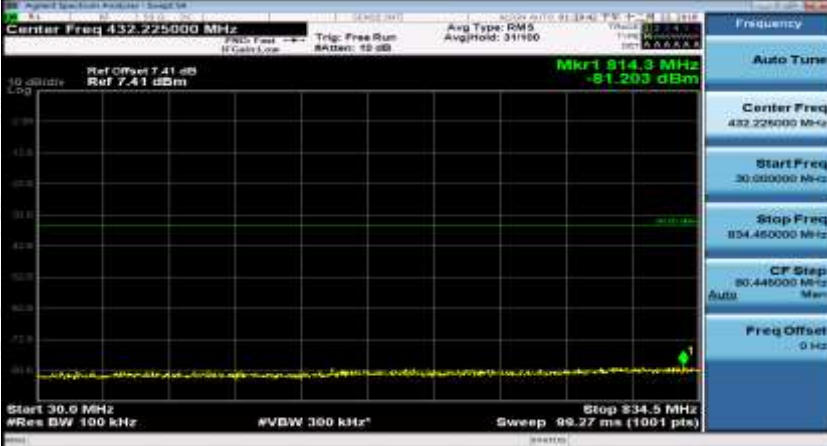
Co-existence	
Co-existence	
Co-existence	

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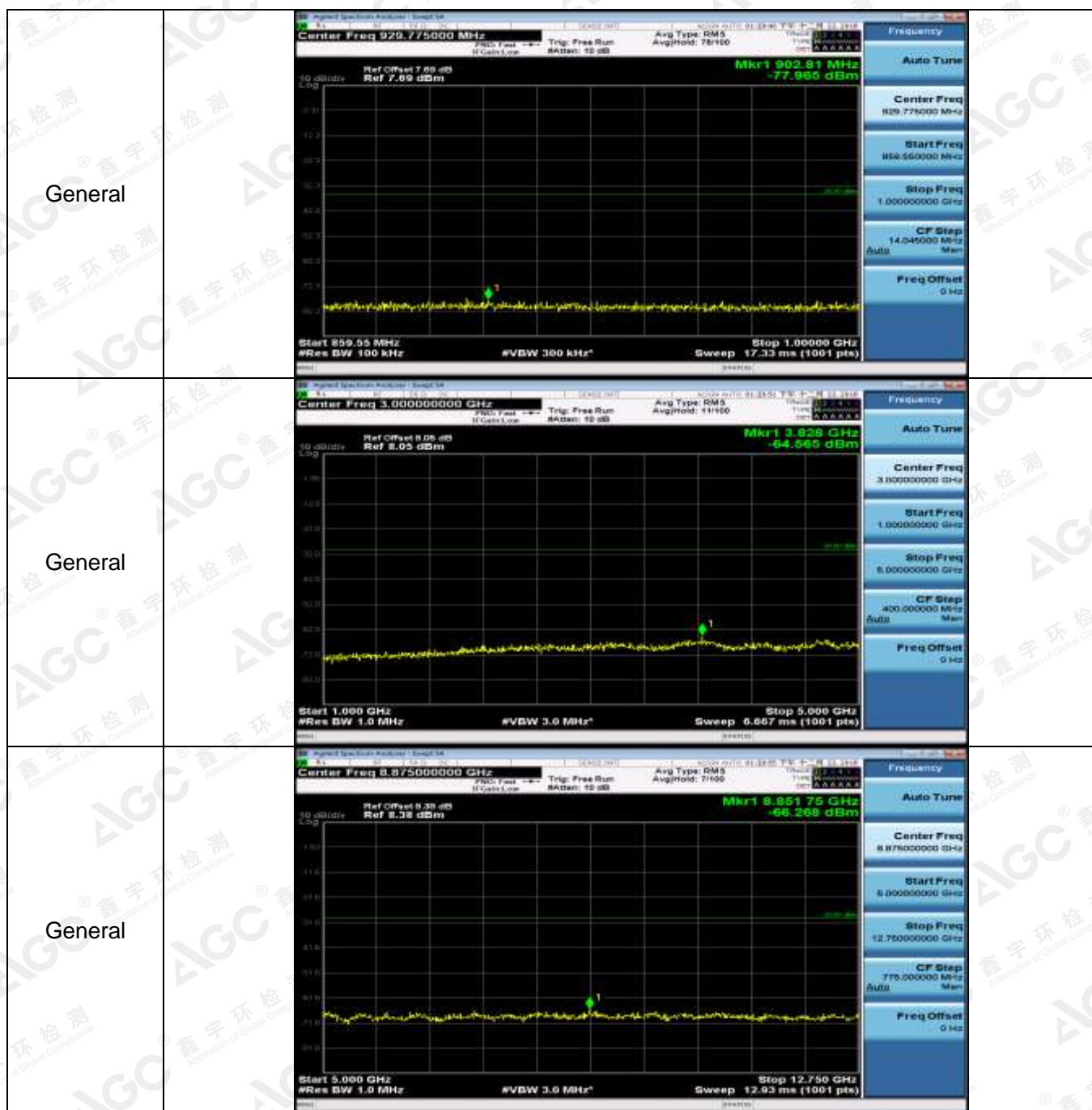
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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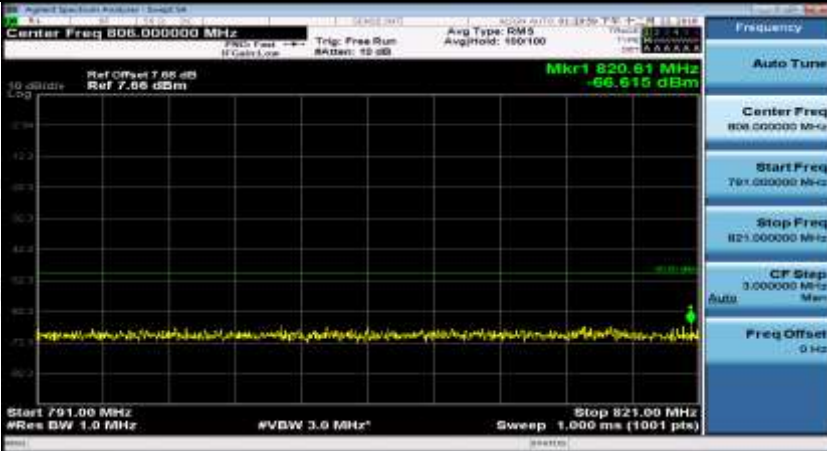
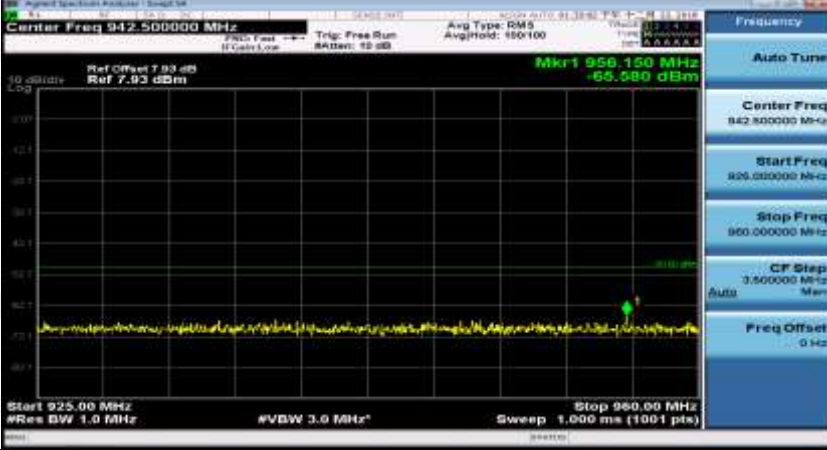
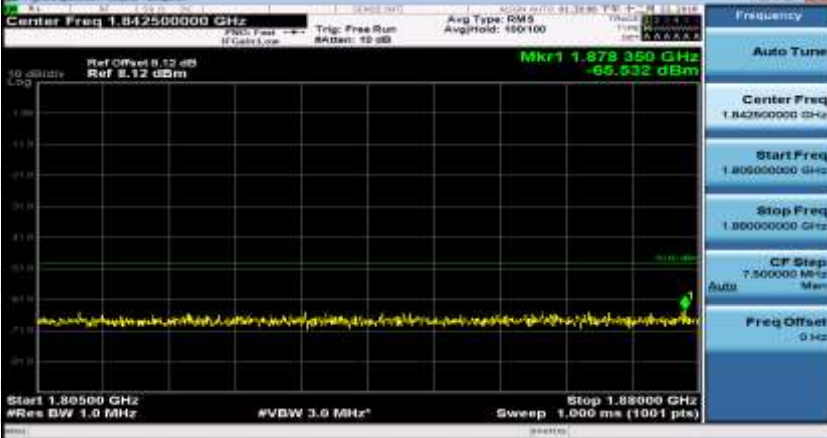
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

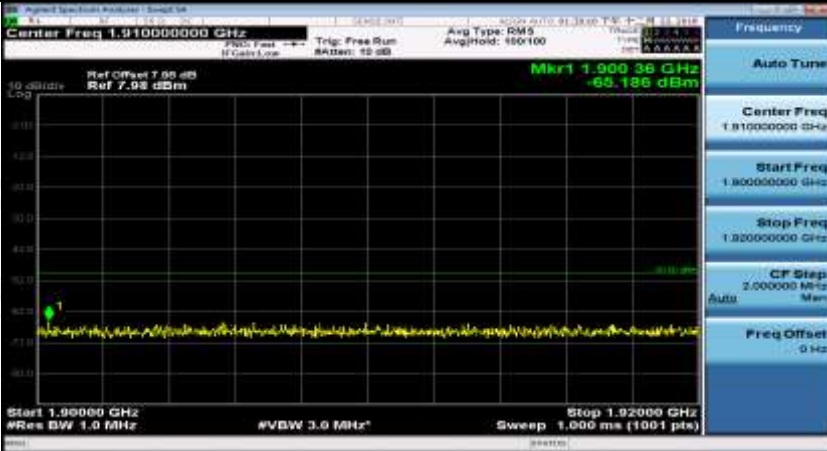
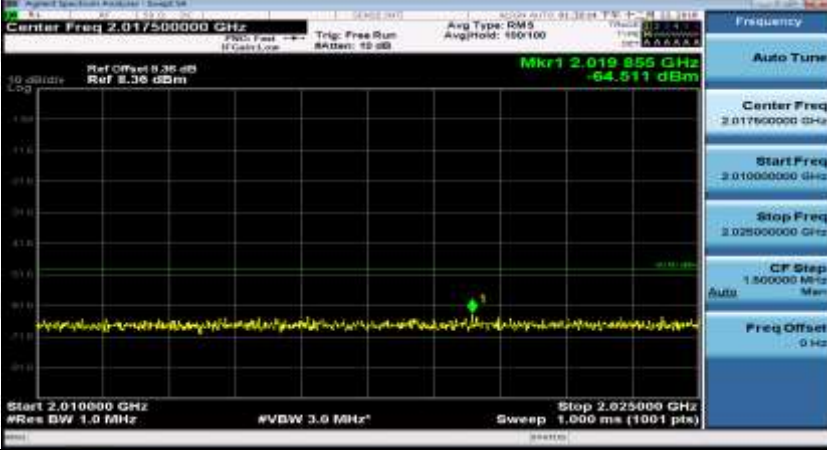
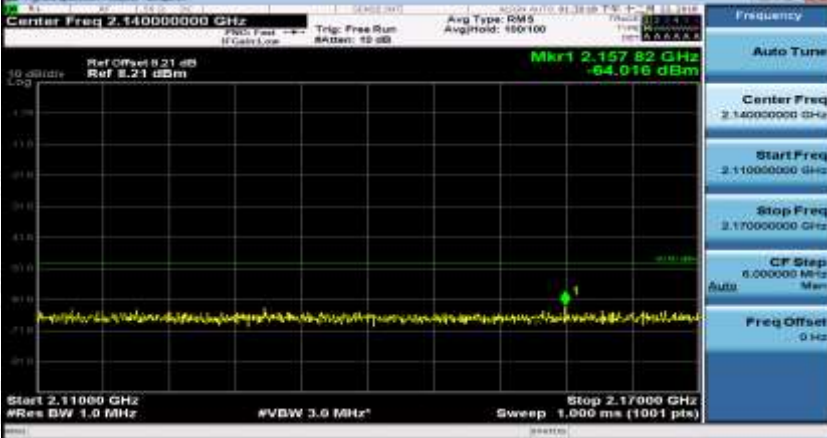
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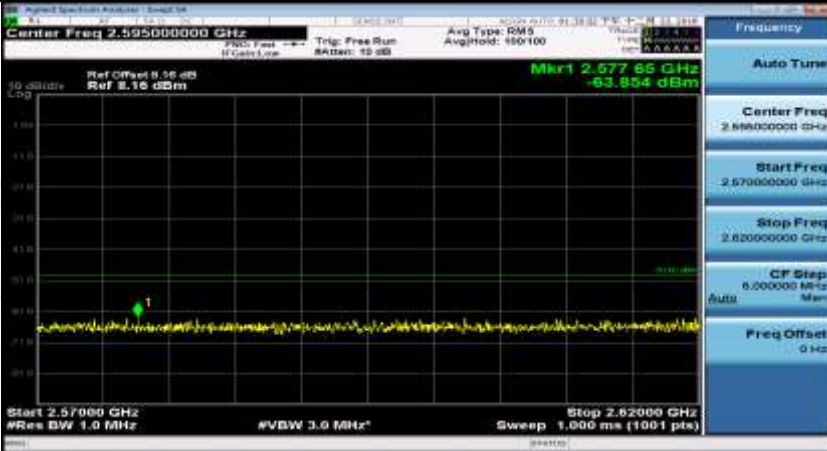
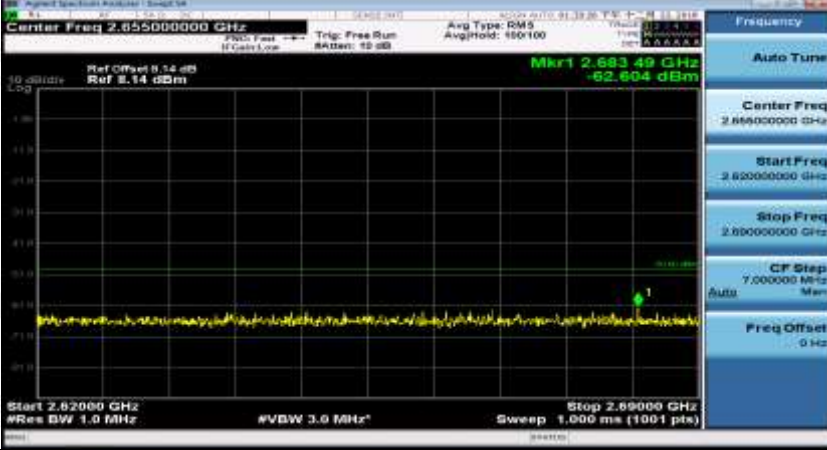
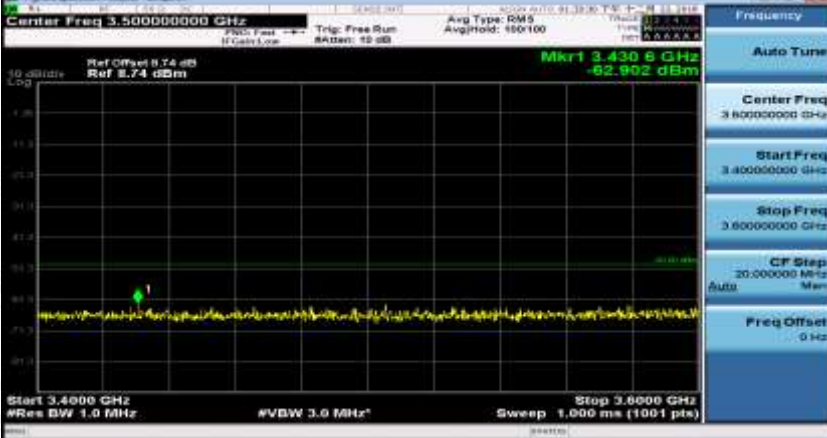
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Co-existence	
Co-existence	
Co-existence	

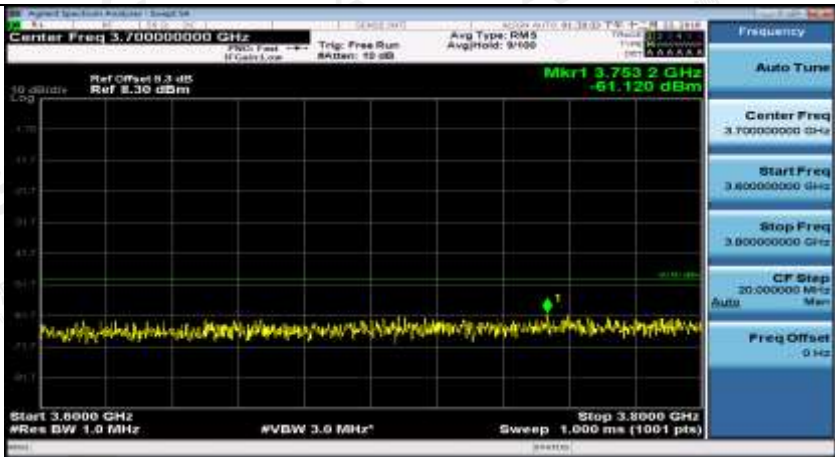
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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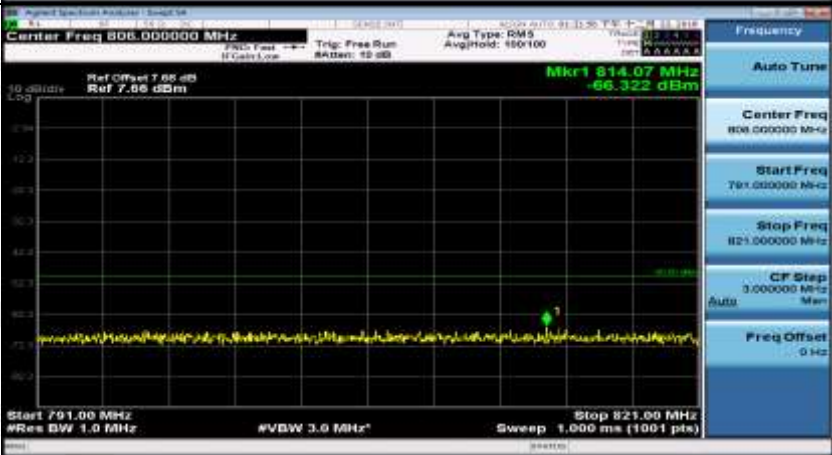
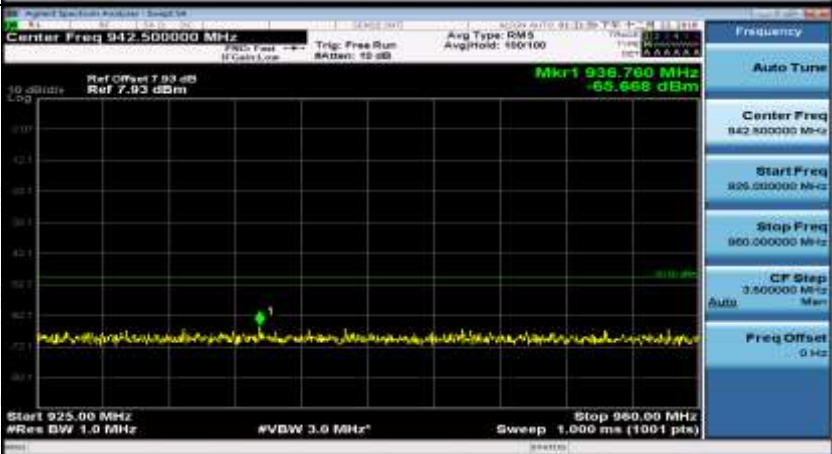
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	
General	

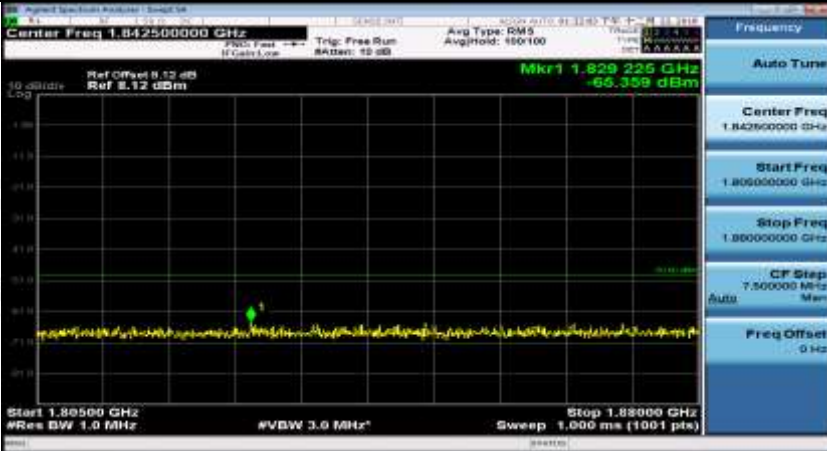
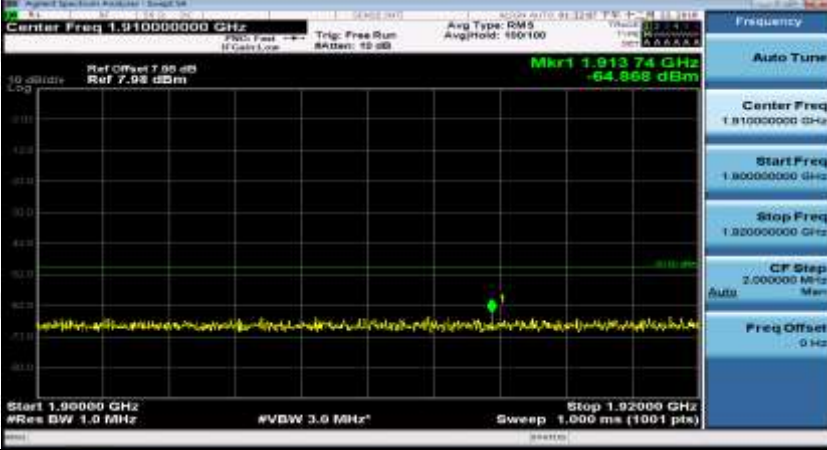

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General	
General	
General	



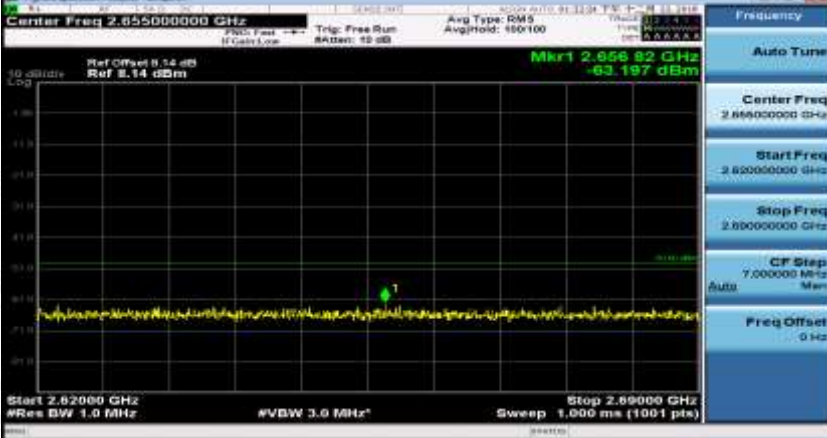
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General	
Co-existence	
Co-existence	



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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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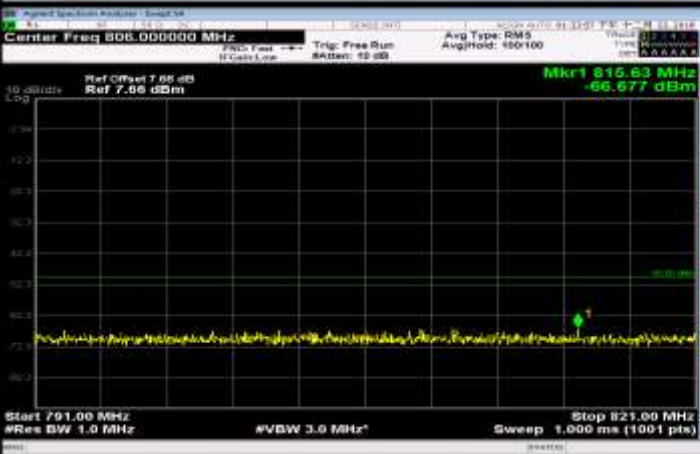
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
General	

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General	
General	
General	

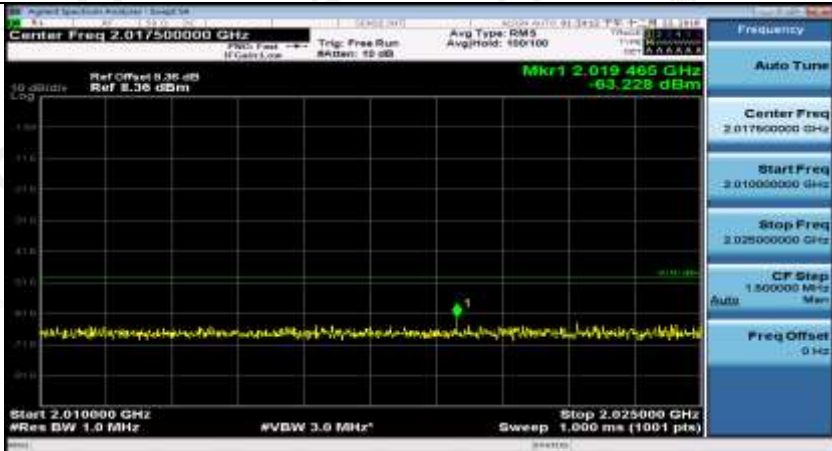
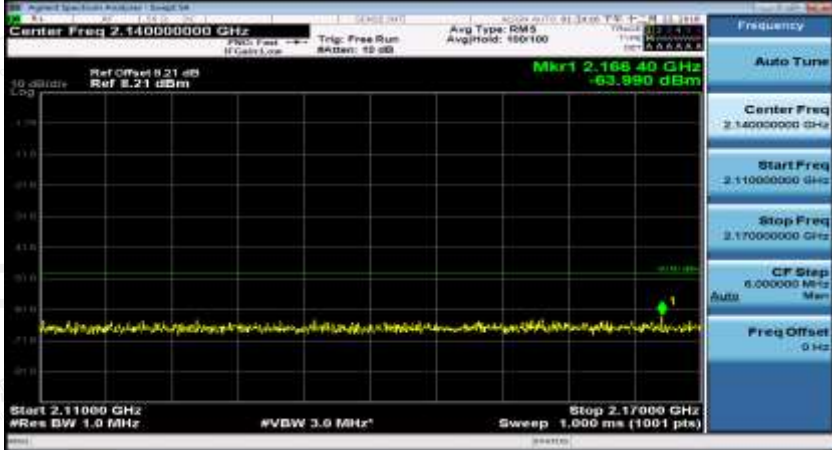
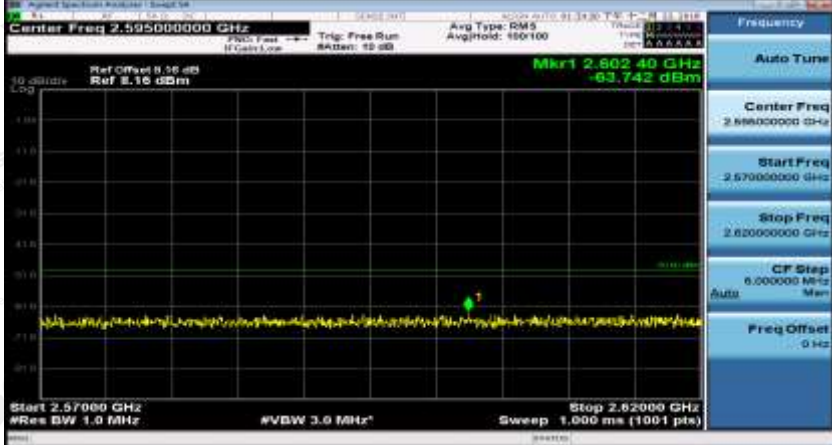
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.00000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 775.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

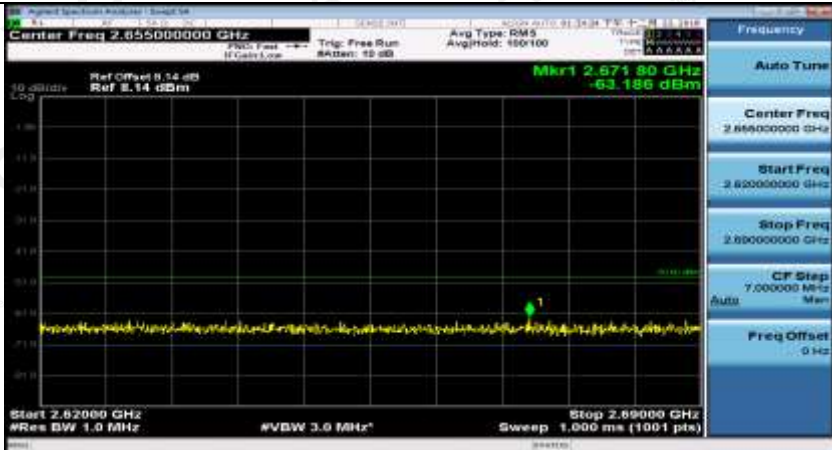
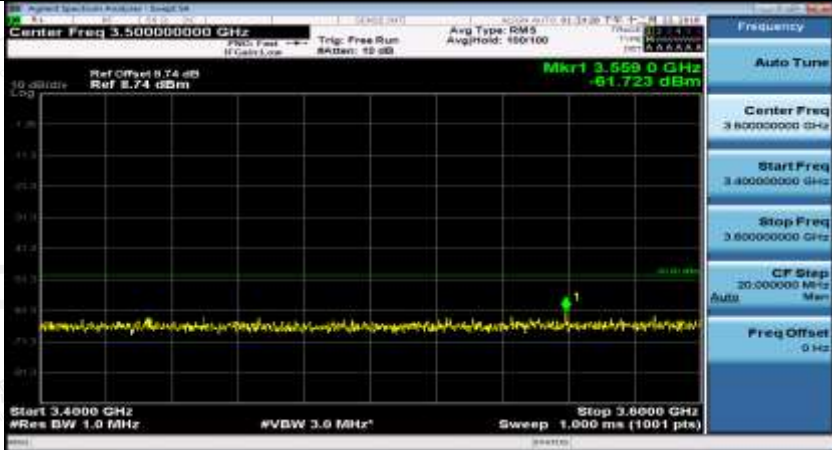

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

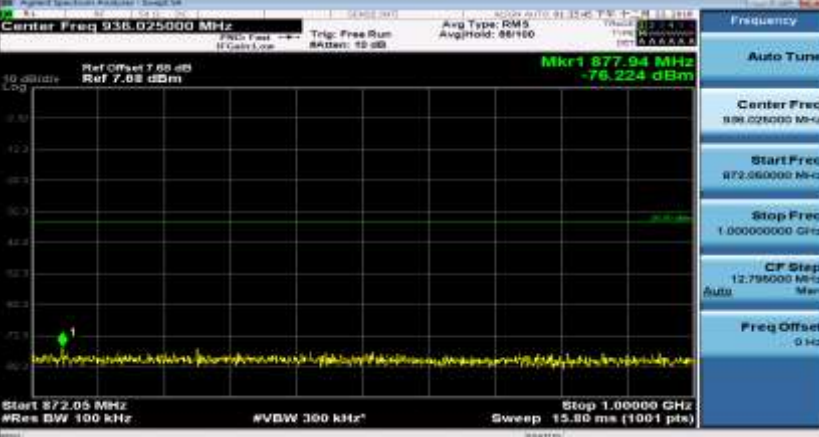


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Co-existence	
Co-existence	
Co-existence	
Additional	NA


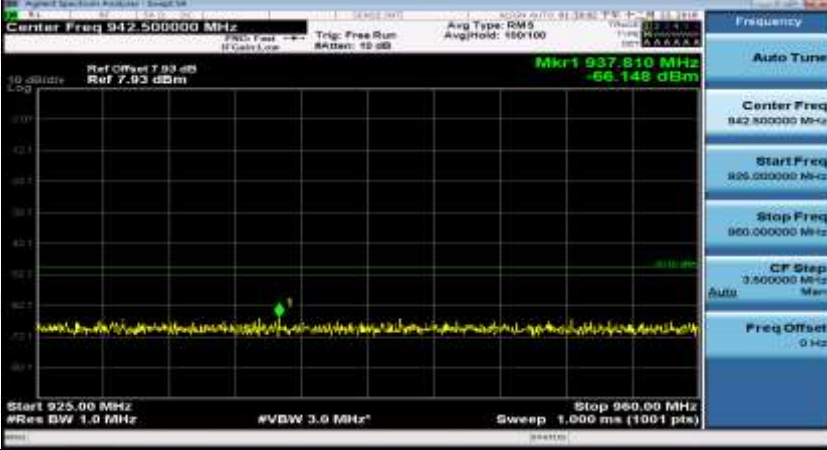
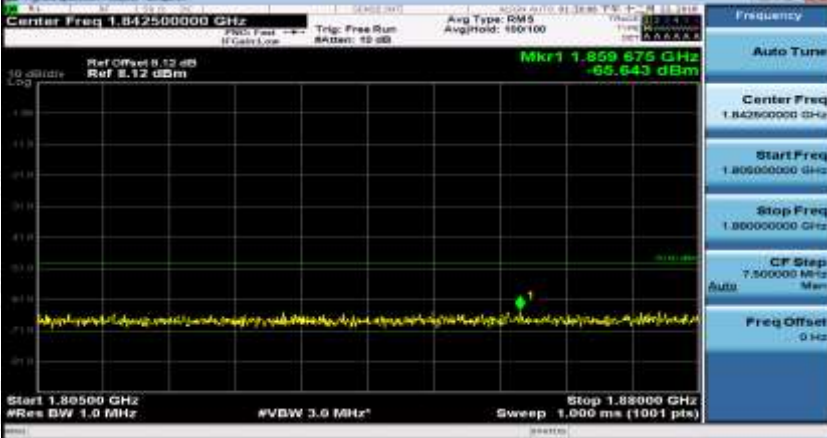
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Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0			
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 9.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 kHz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.385000 MHz</p> <p>Man</p> <p>Freq Offset 0 kHz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 438.475000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 646.950000 MHz</p> <p>CF Step 91.895000 MHz</p> <p>Man</p> <p>Freq Offset 0 kHz</p>

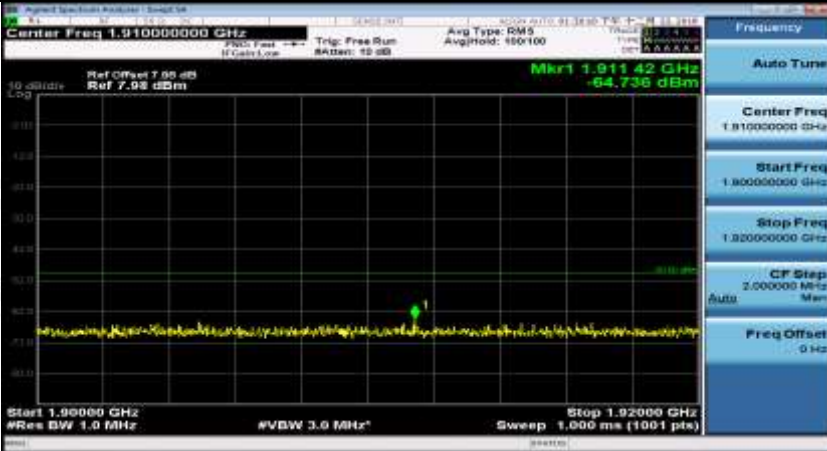
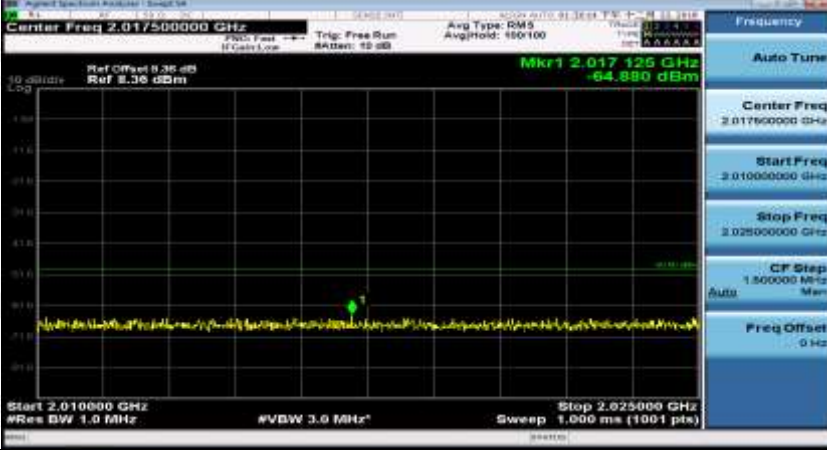
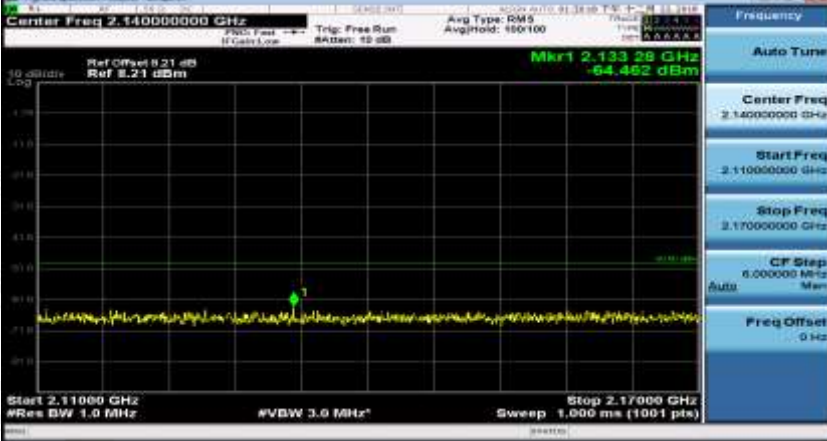
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General			
General			
General			

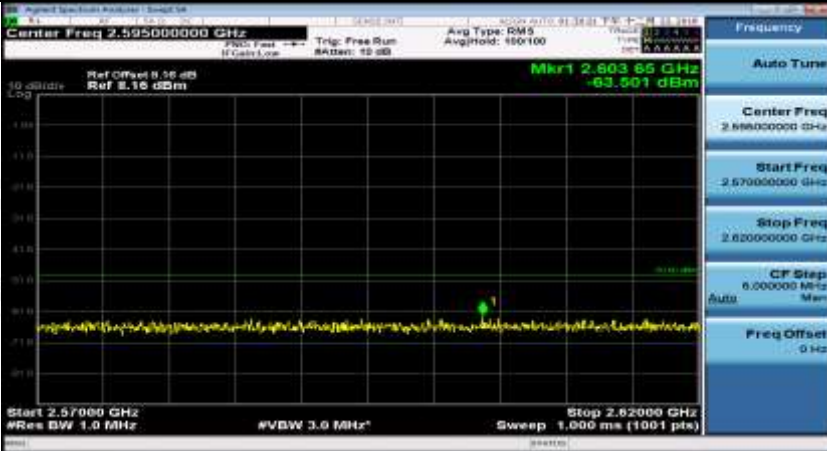
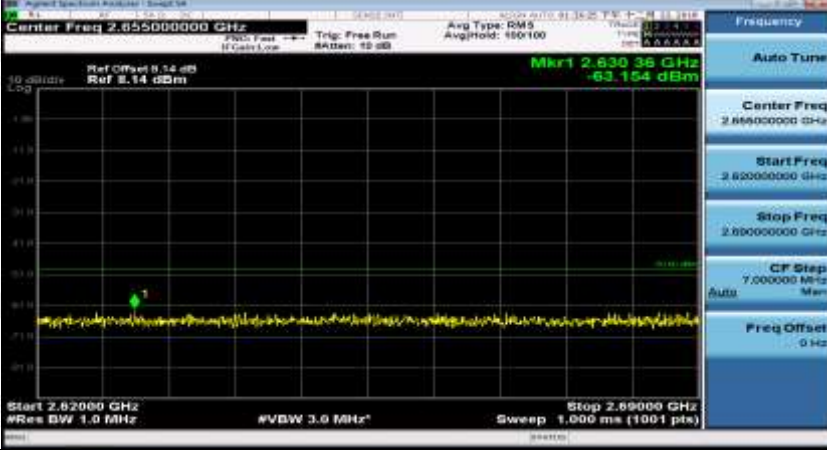
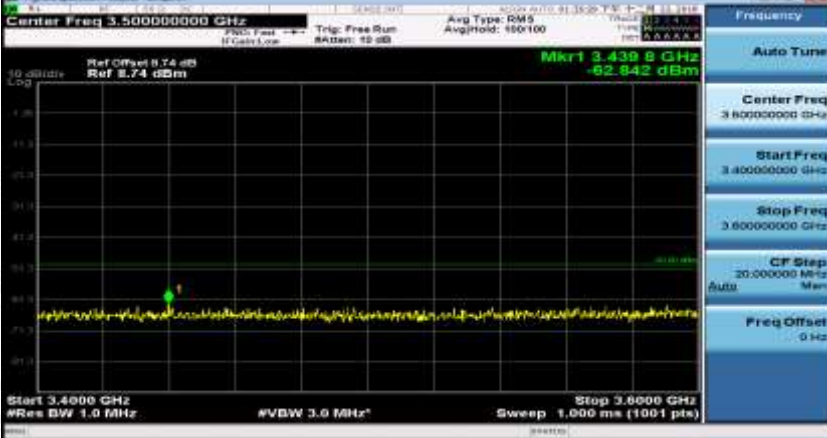
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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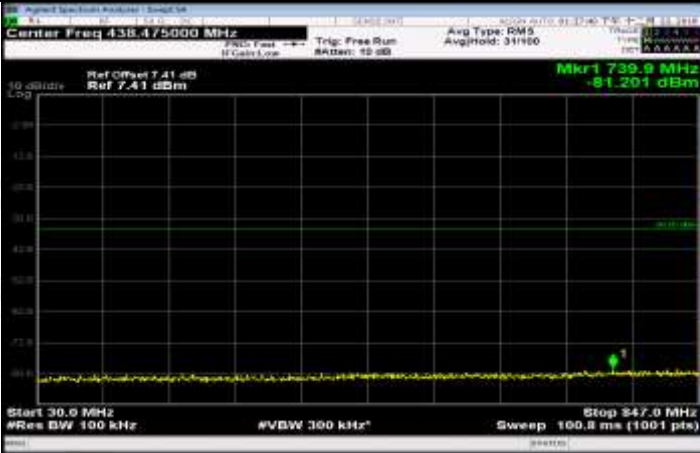


Co-existence	
Co-existence	
Co-existence	

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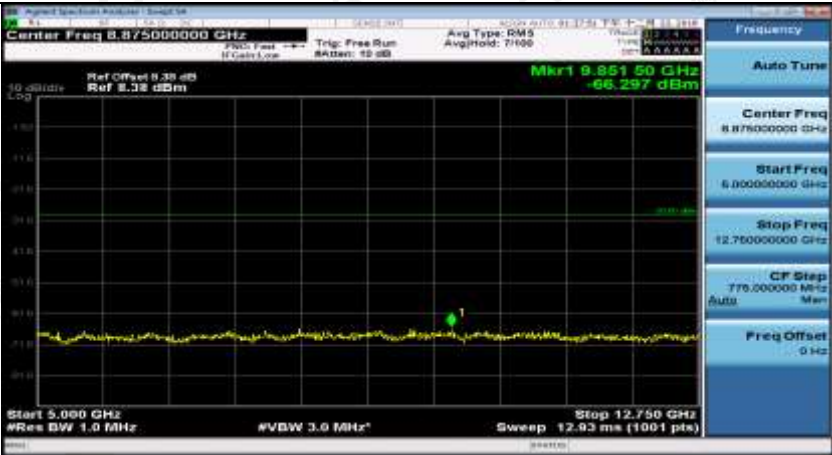
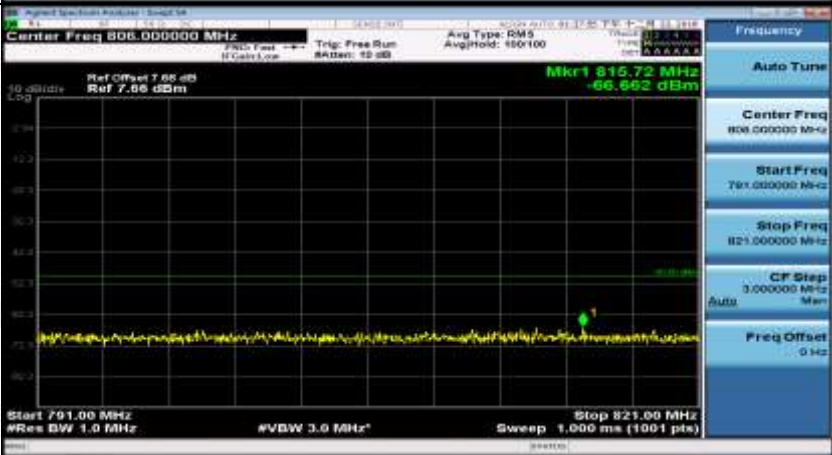

Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

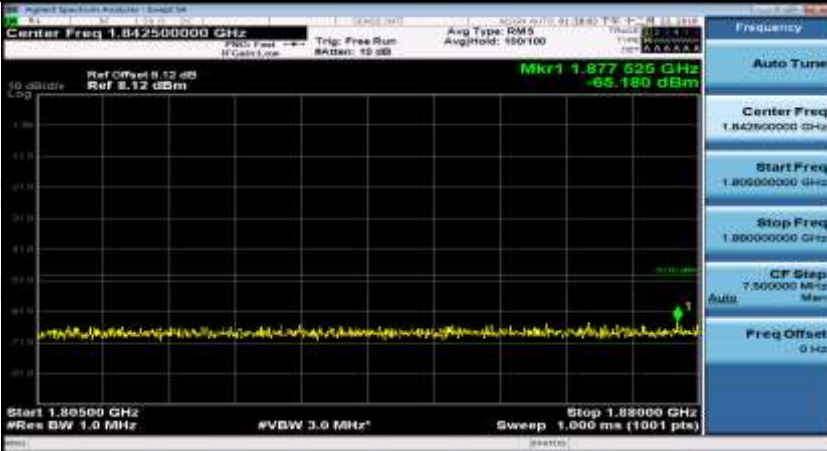
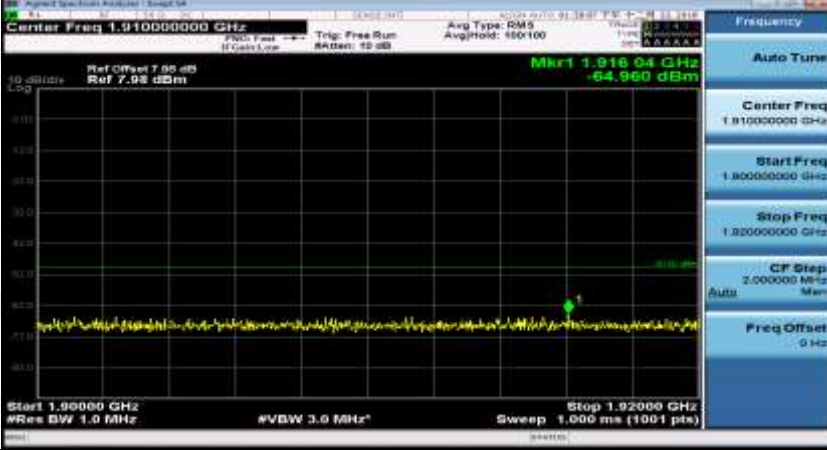

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 438.475000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 547.000000 MHz</p> <p>CF Step 91.895000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 936.025000 MHz</p> <p>Start Freq 872.050000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 12.795000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.000000000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 400.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>


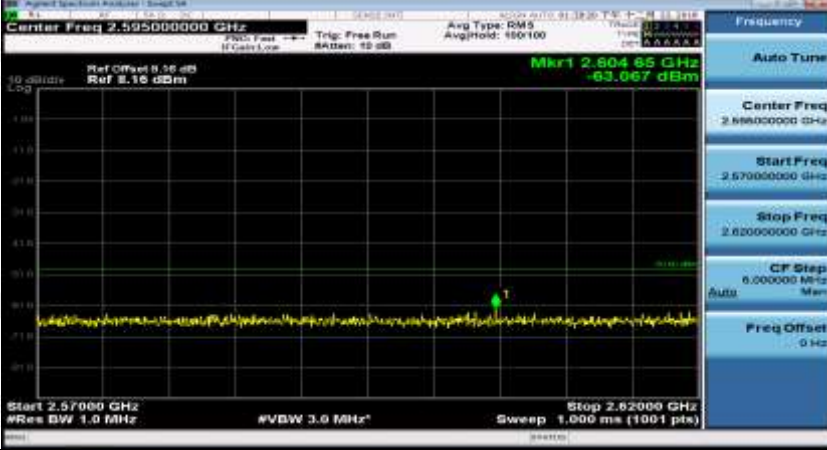
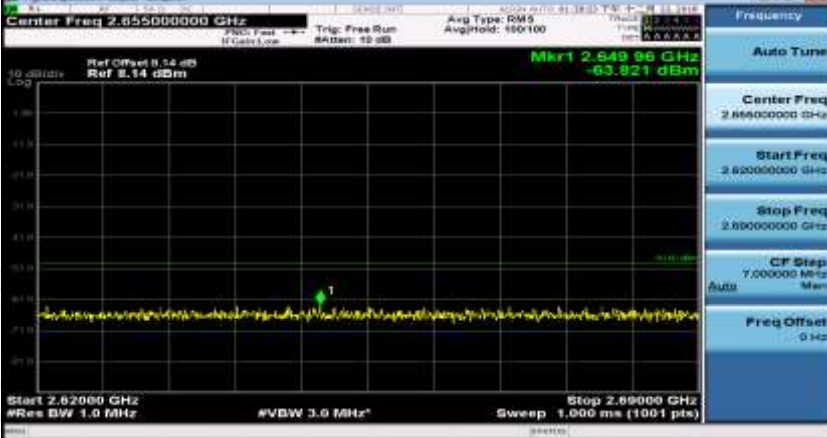
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General	
Co-existence	
Co-existence	

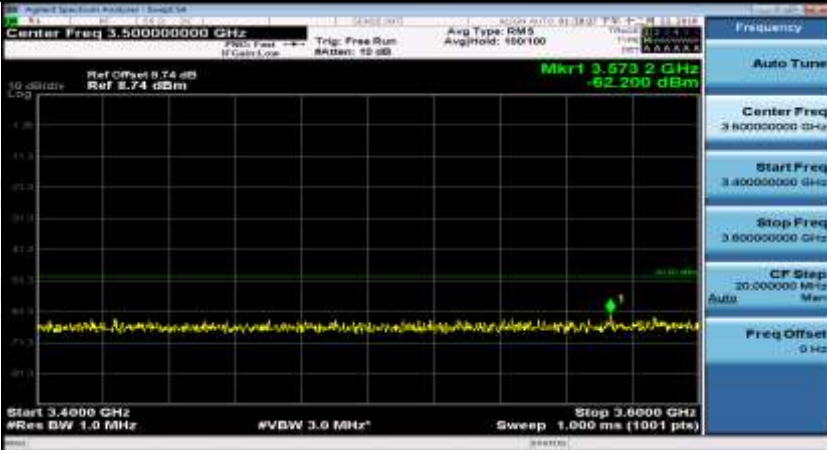
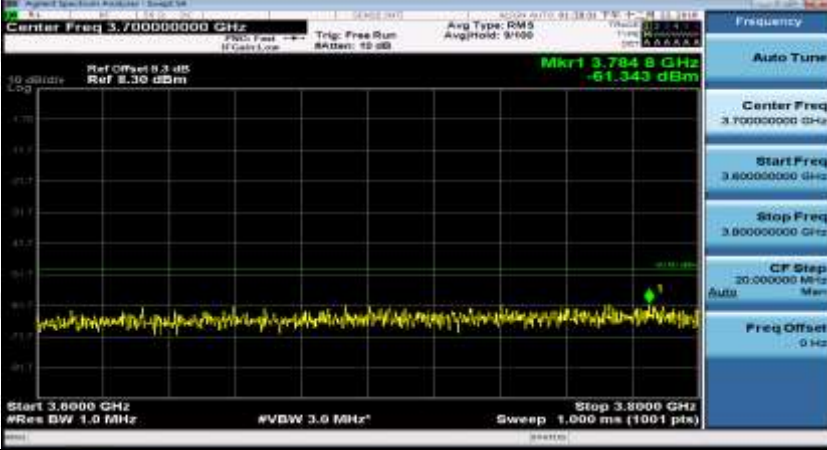
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Co-existence	
Co-existence	
Co-existence	

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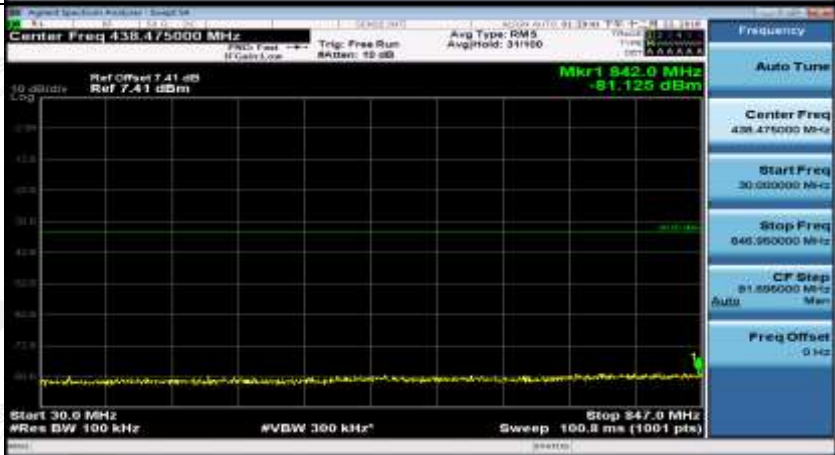
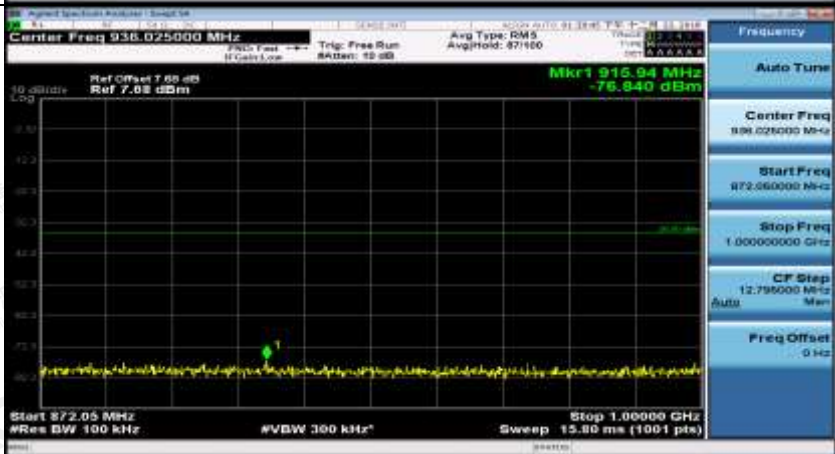
Co-existence	
Co-existence	
Co-existence	

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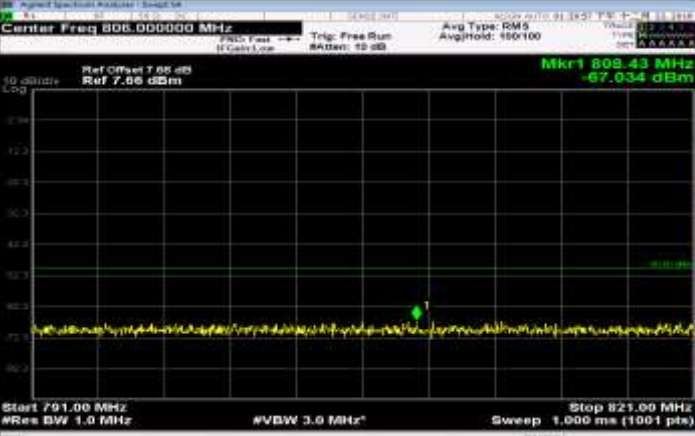
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullIRB#0	
General	

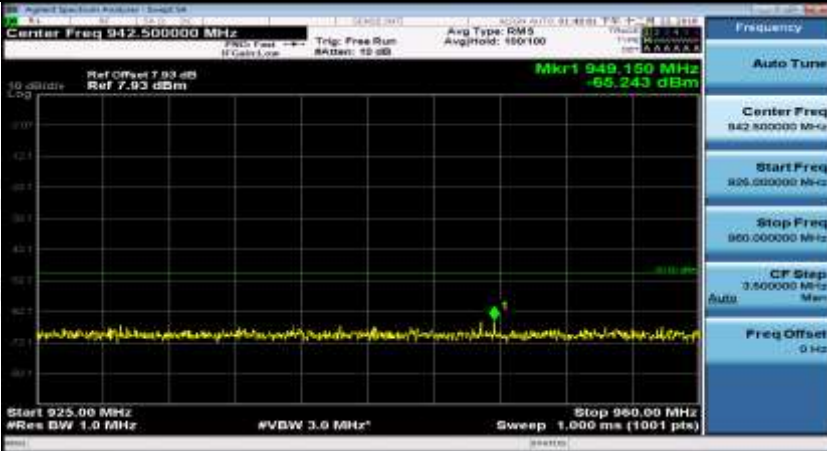
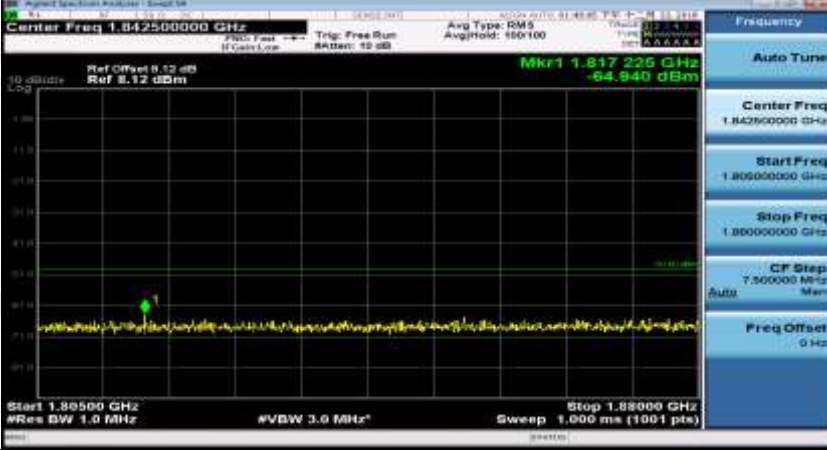
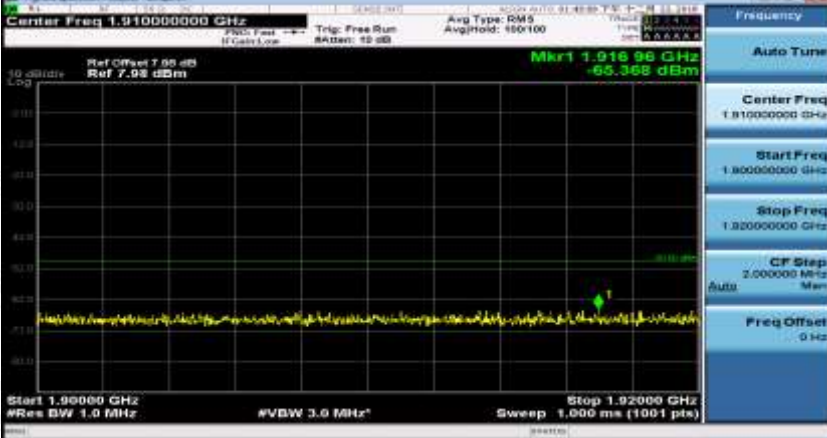
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General			
General			
General			

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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.80000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 808.000000 MHz</p> <p>Start Freq 781.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

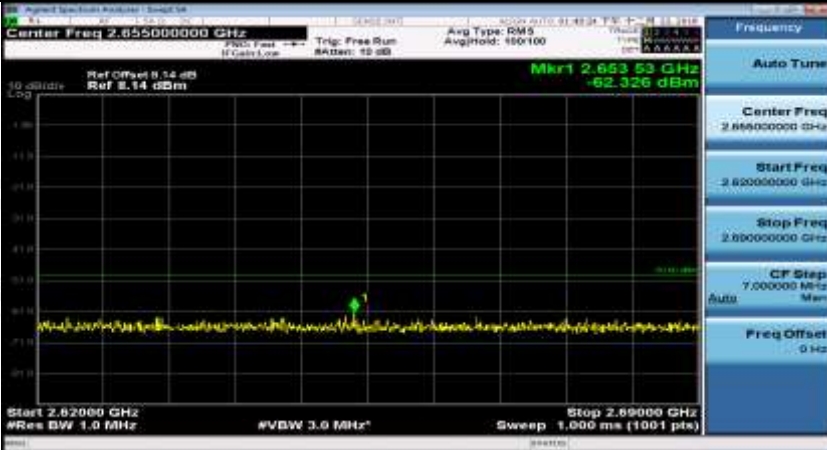
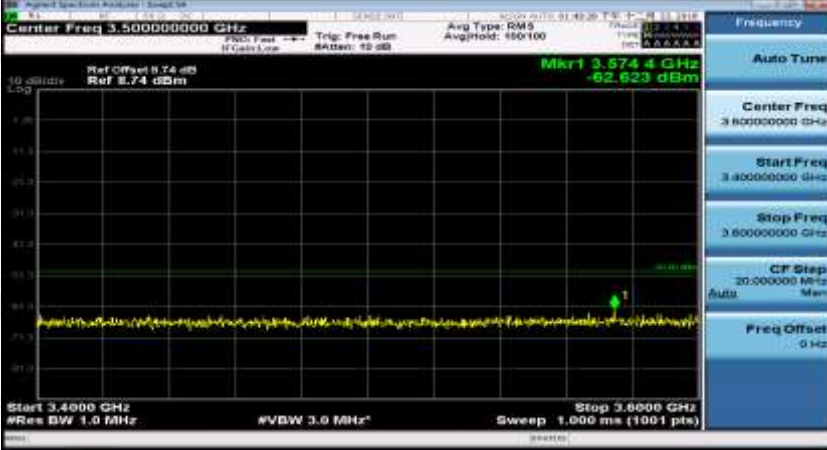
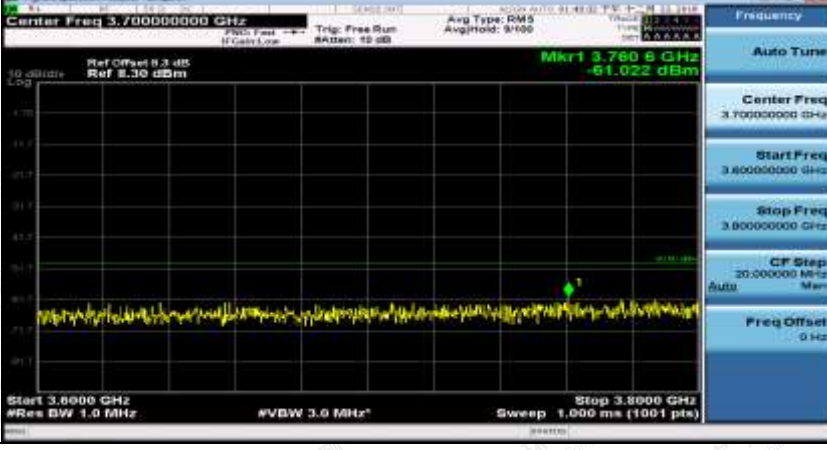
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Co-existence	
Co-existence	
Co-existence	

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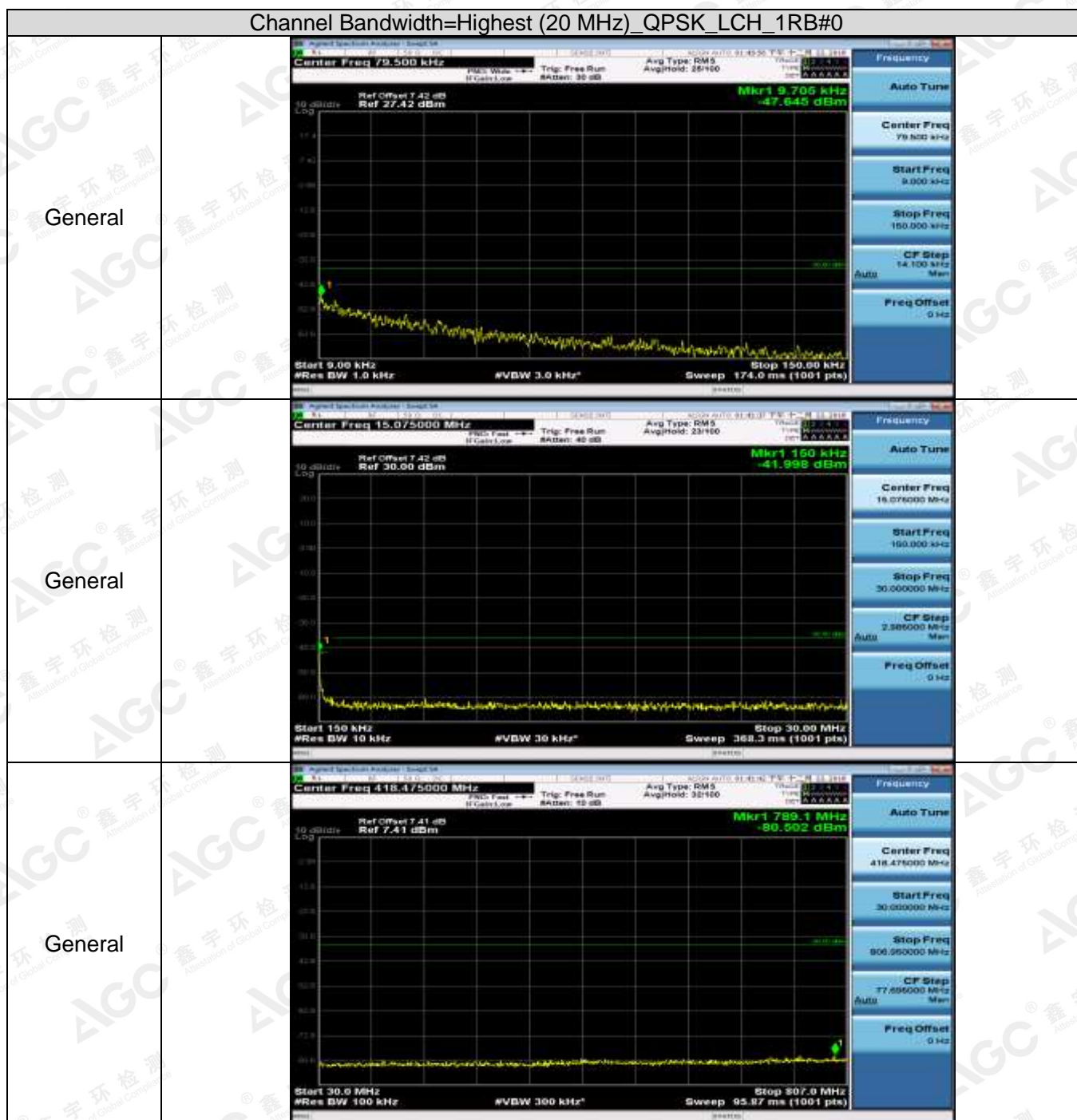
Co-existence	
Co-existence	
Co-existence	

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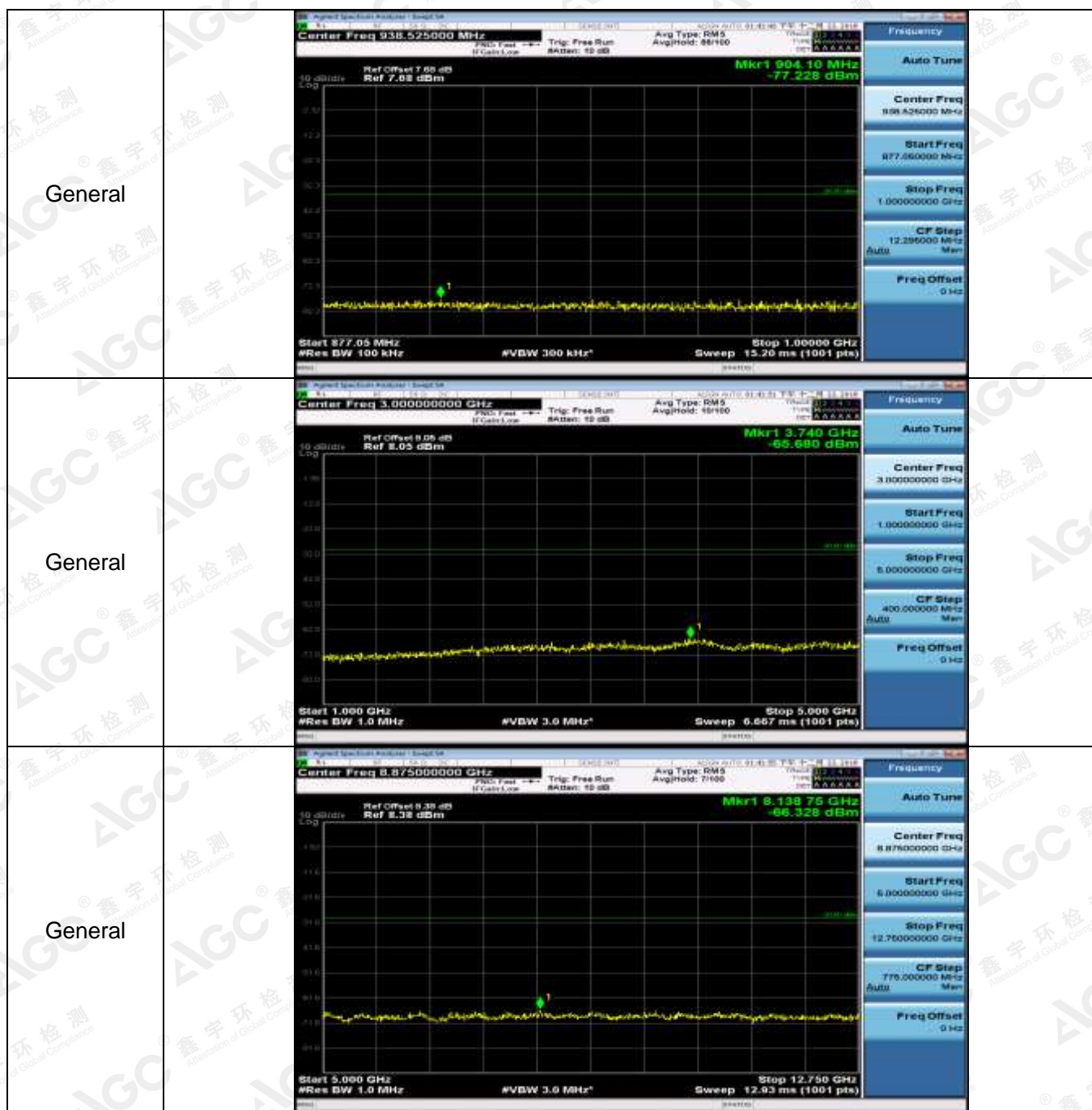
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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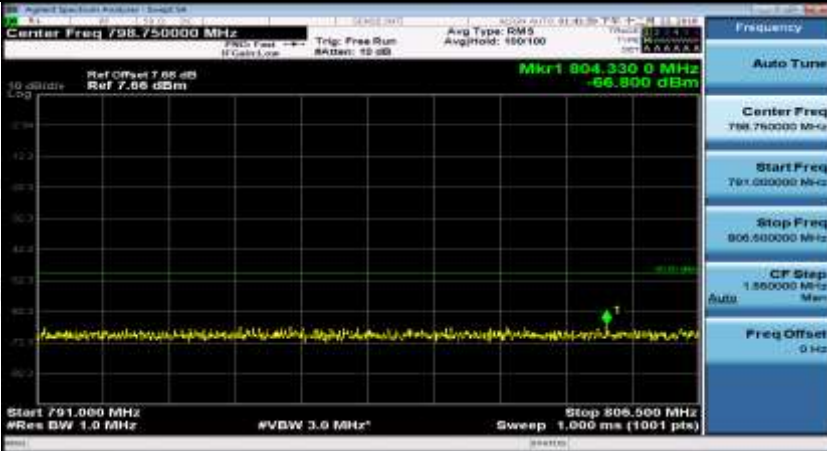
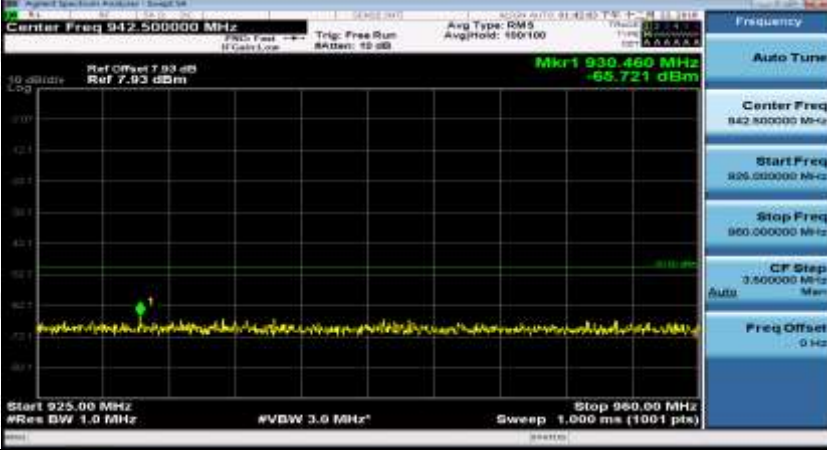
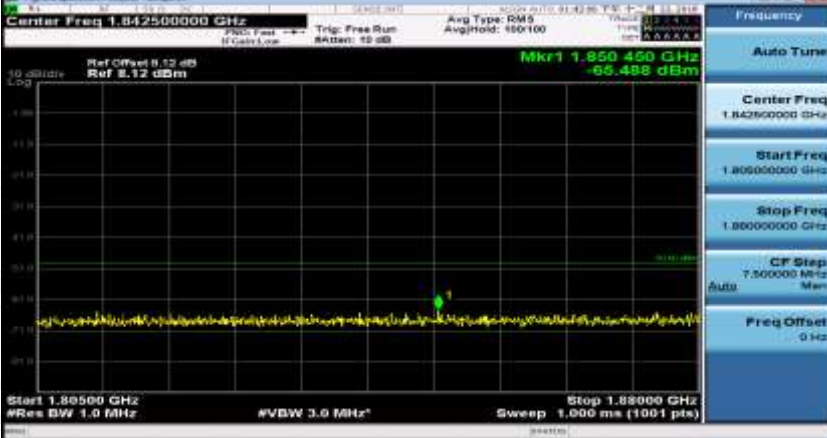
Channel Bandwidth= (20 MHz)



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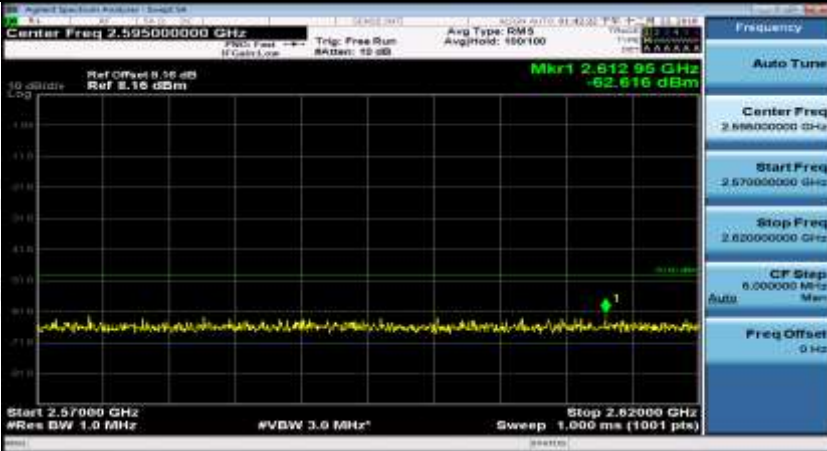
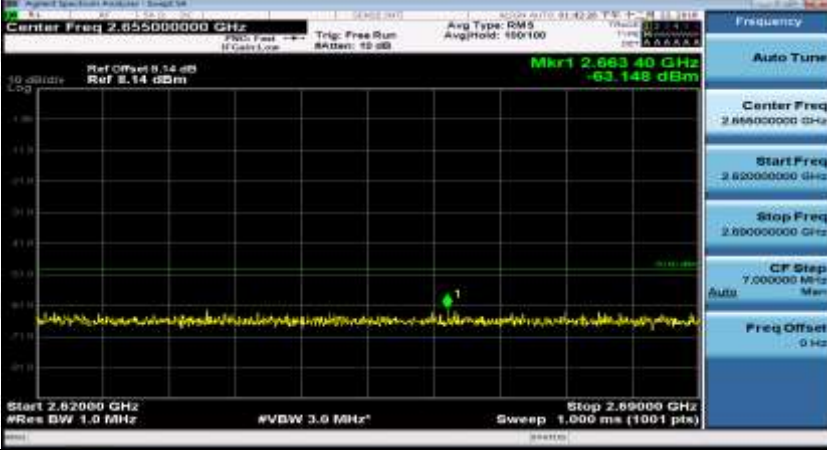
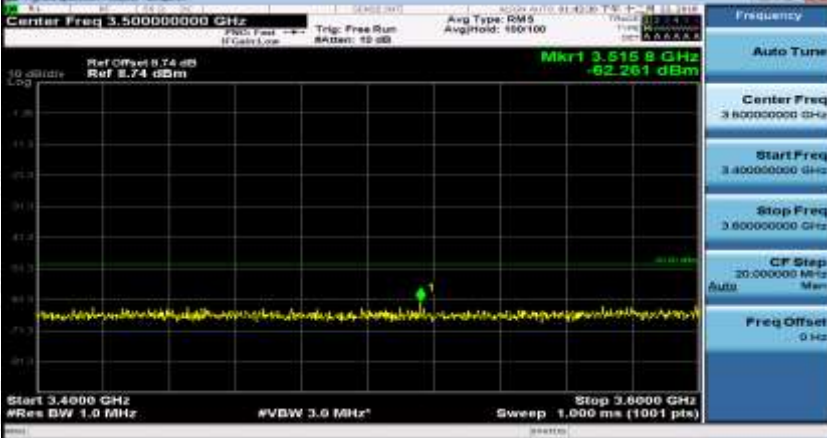
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Co-existence	
Co-existence	
Co-existence	

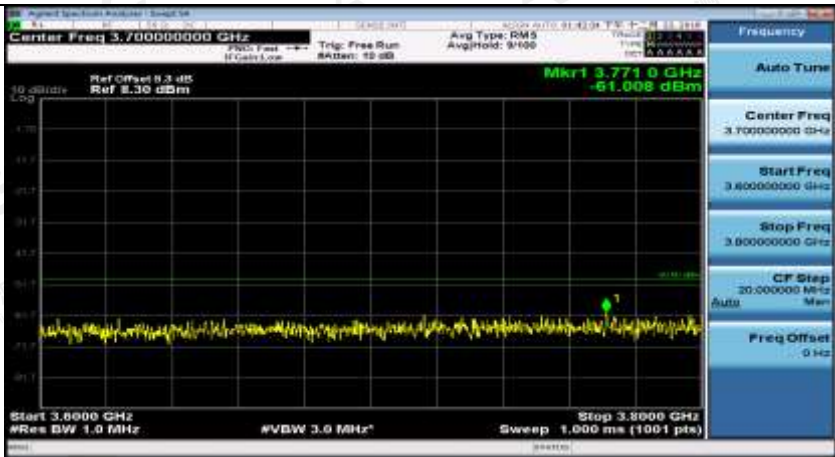
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



Co-existence	
Co-existence	
Co-existence	

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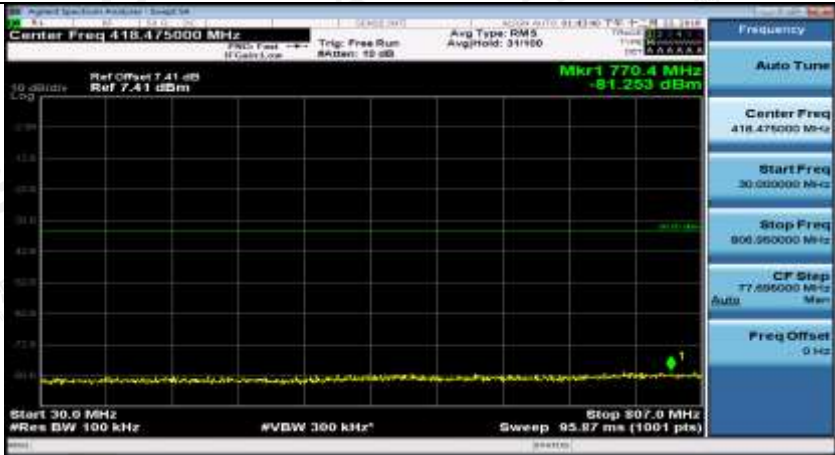
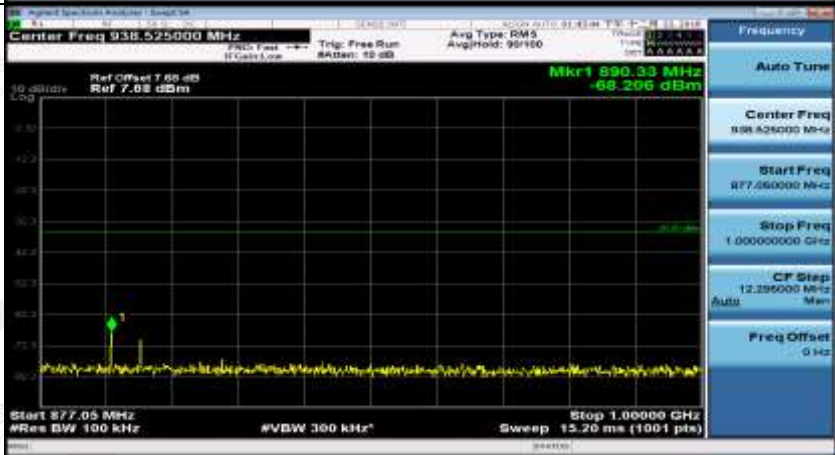
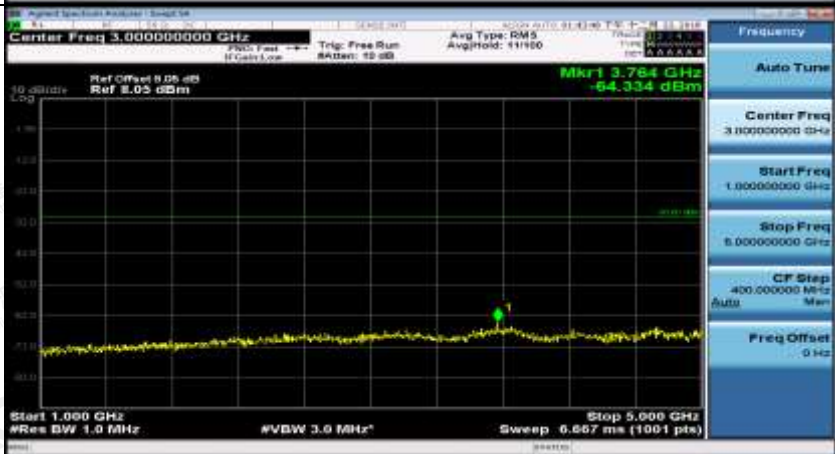
Co-existence	
Co-existence	
Co-existence	

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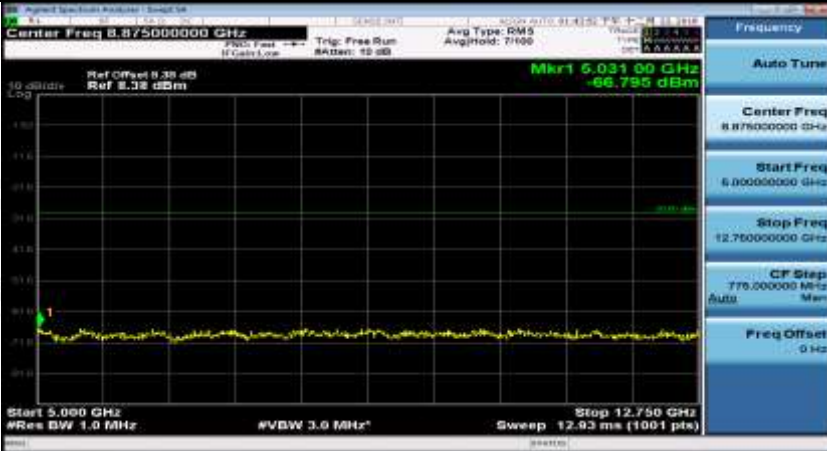
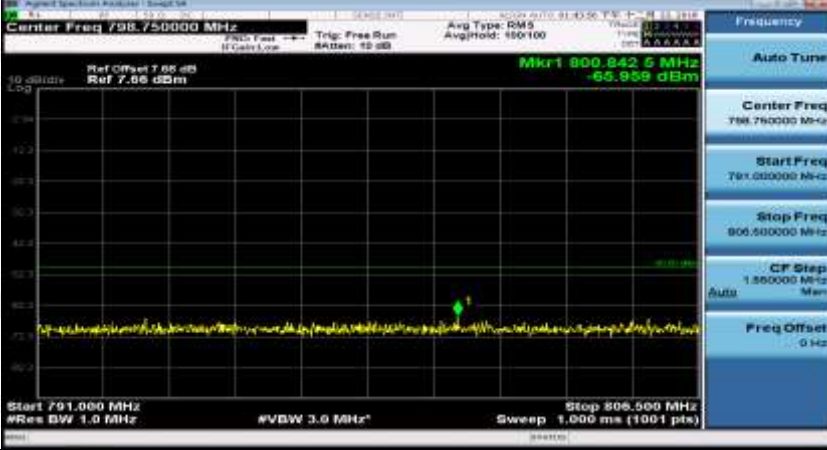
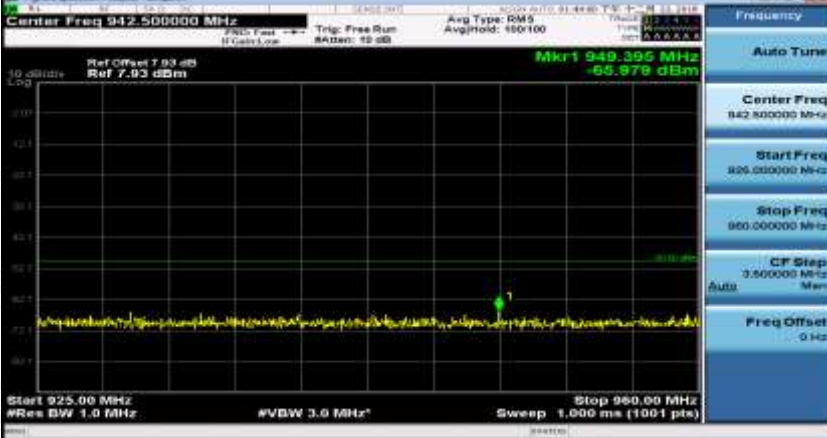
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	
General	

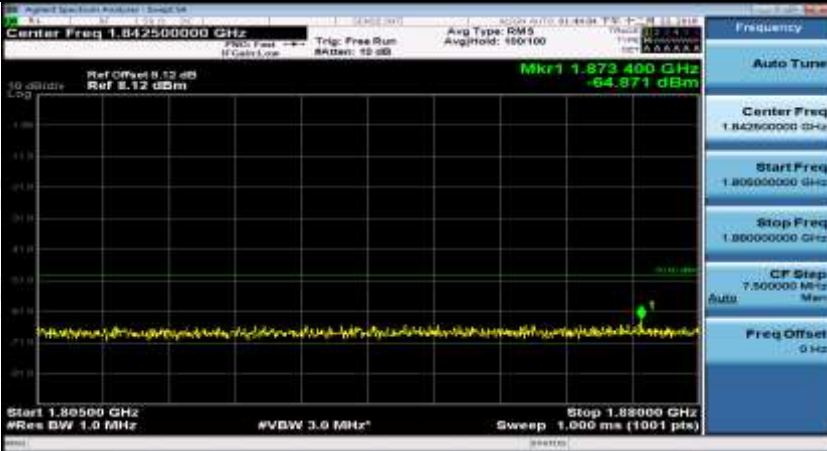
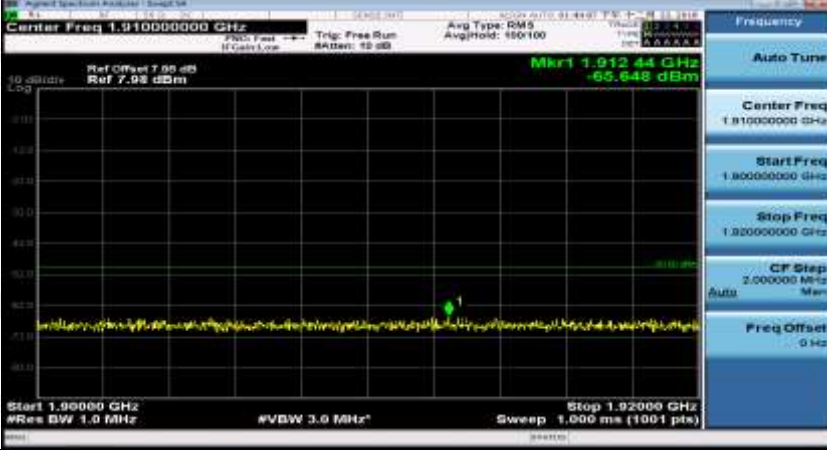
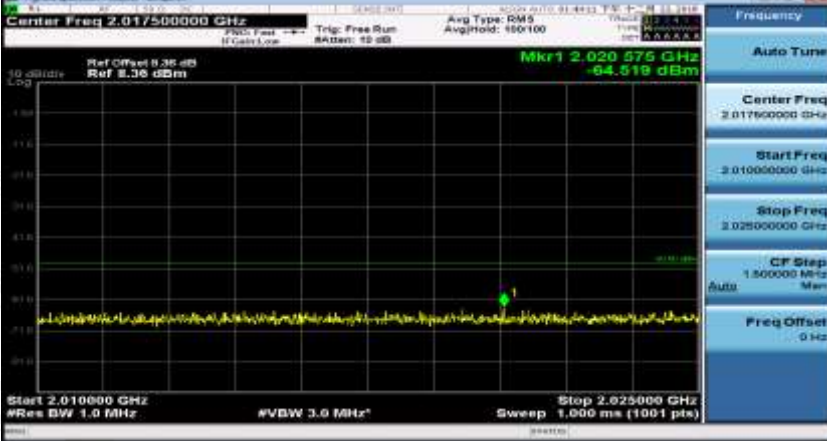
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General			
General			
General			

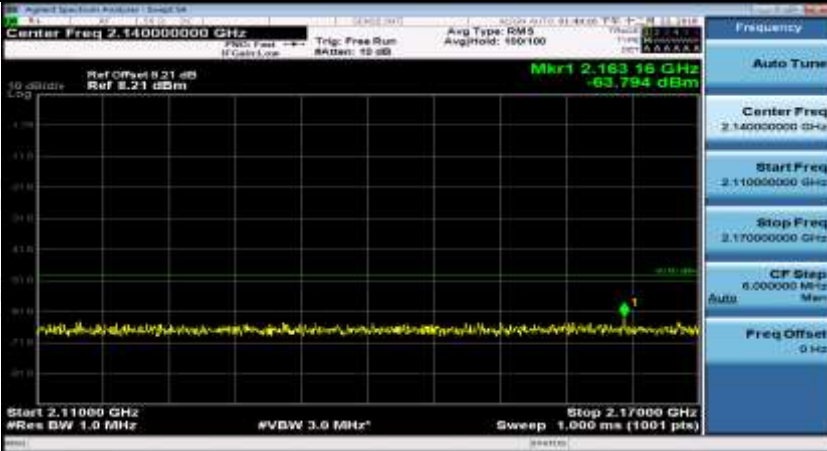
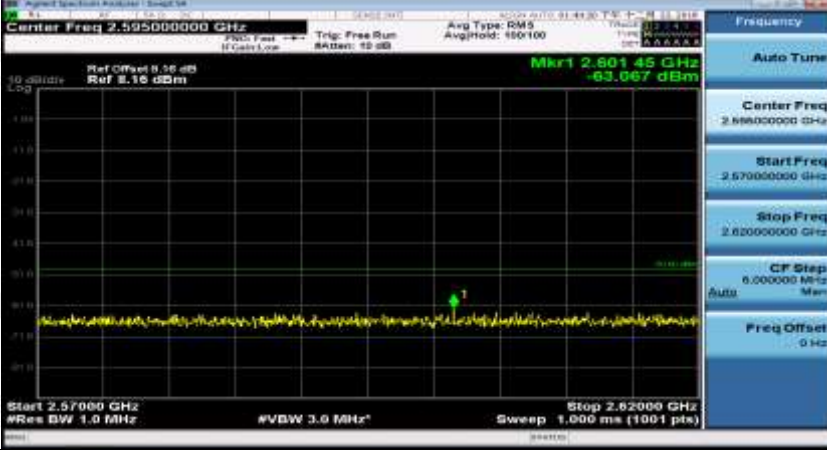
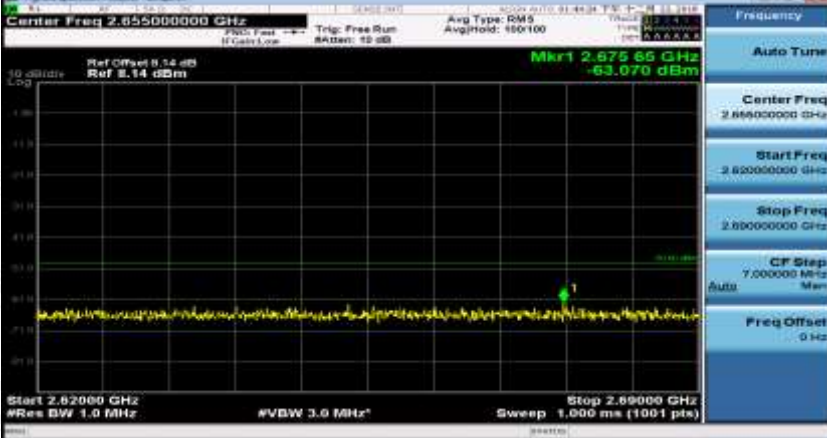
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General	
Co-existence	
Co-existence	


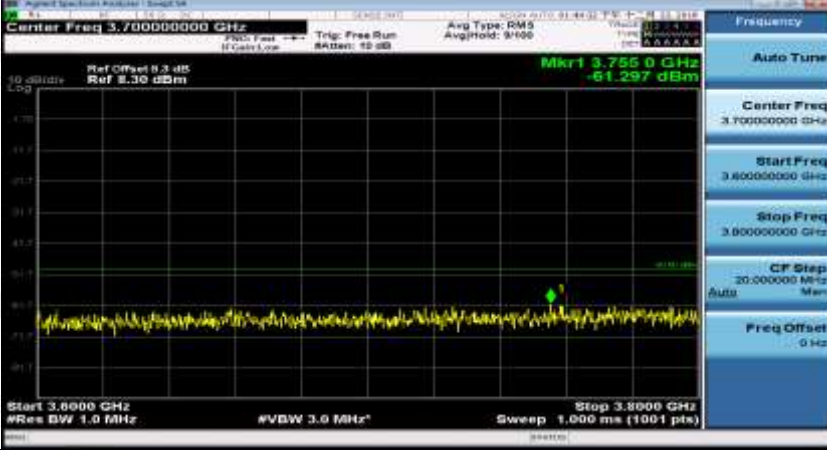
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Co-existence	
Co-existence	
Co-existence	

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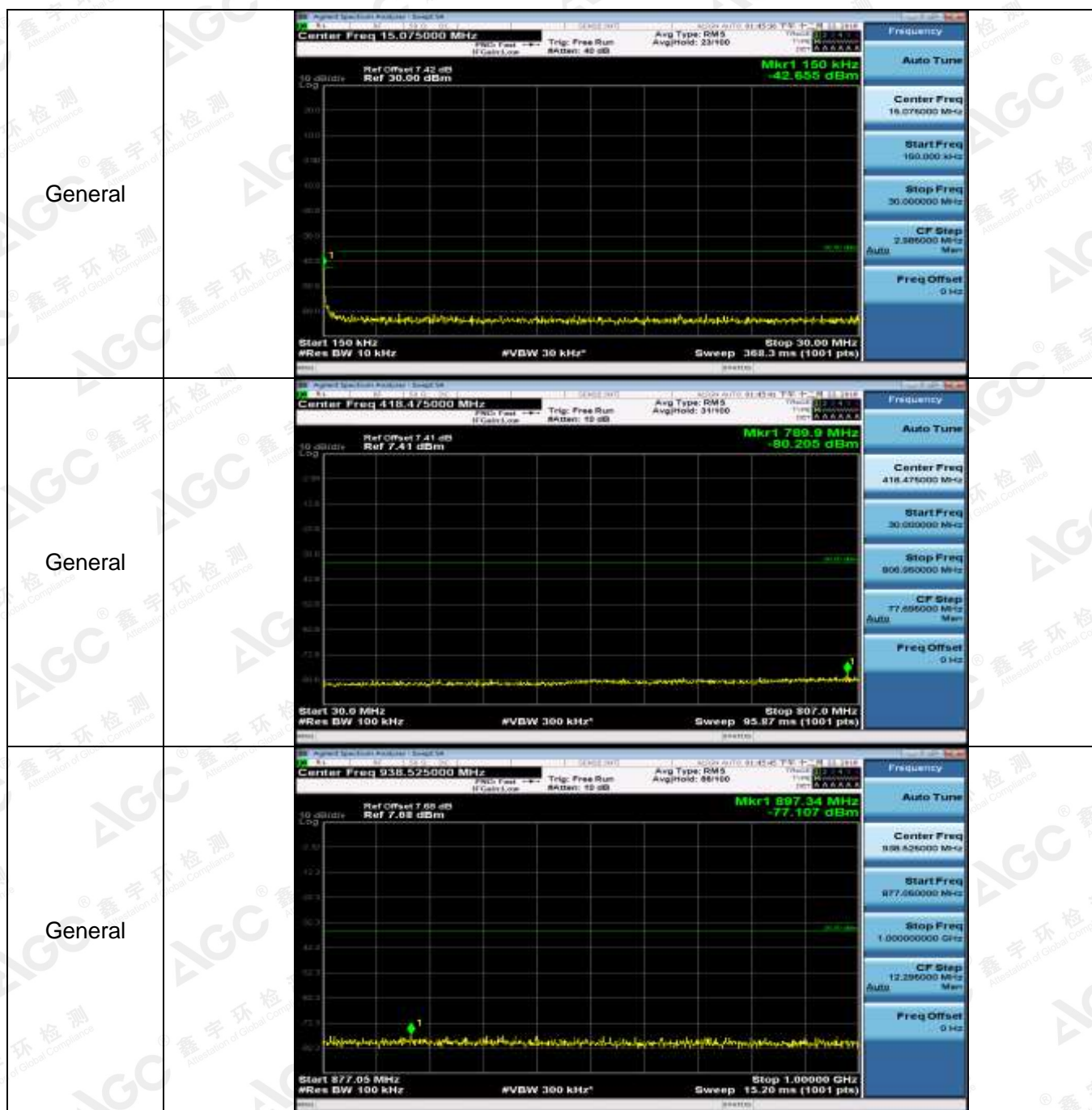
Co-existence	
Co-existence	
Co-existence	

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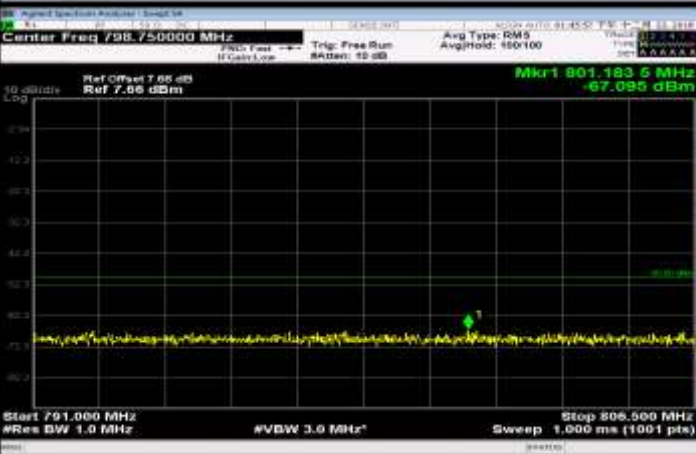
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

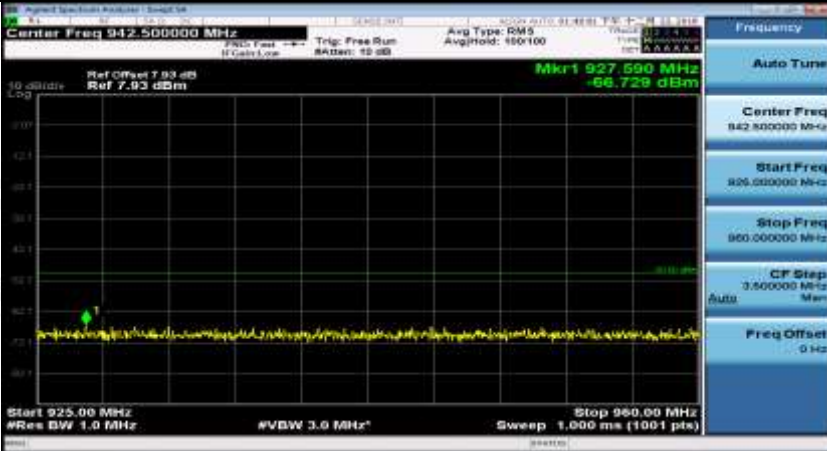
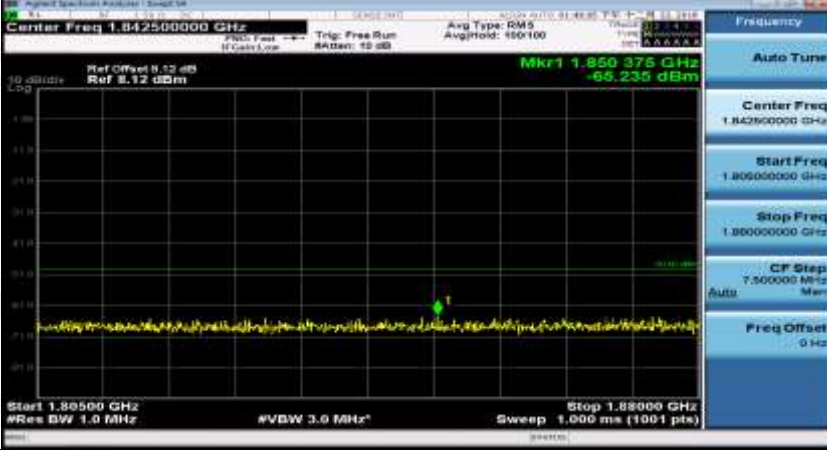
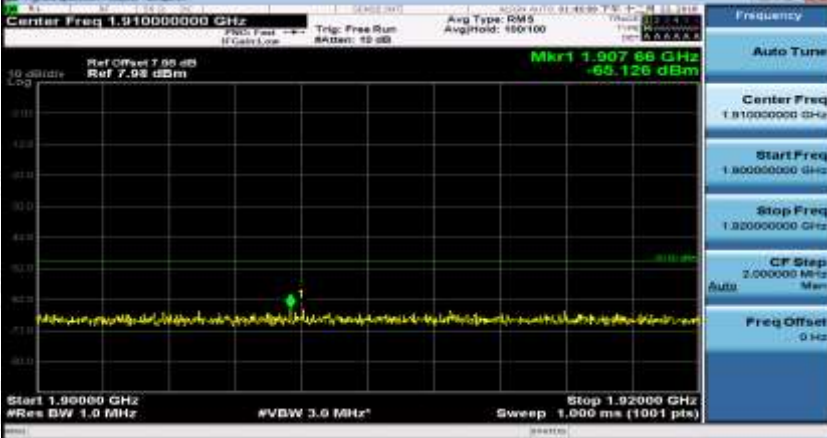
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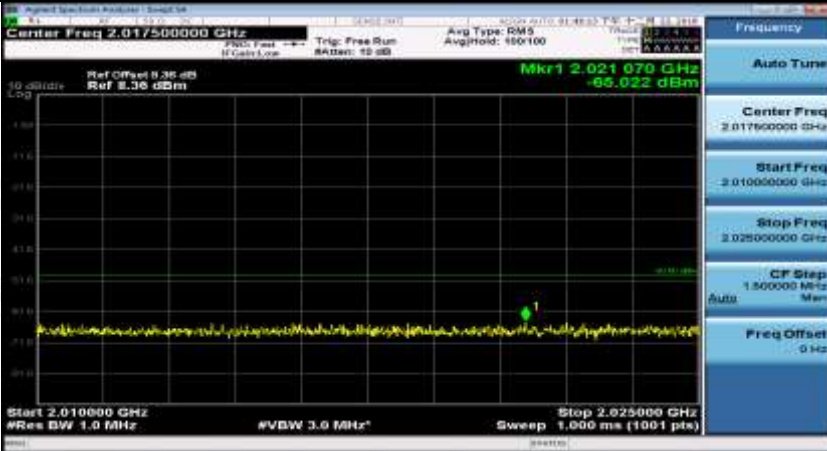
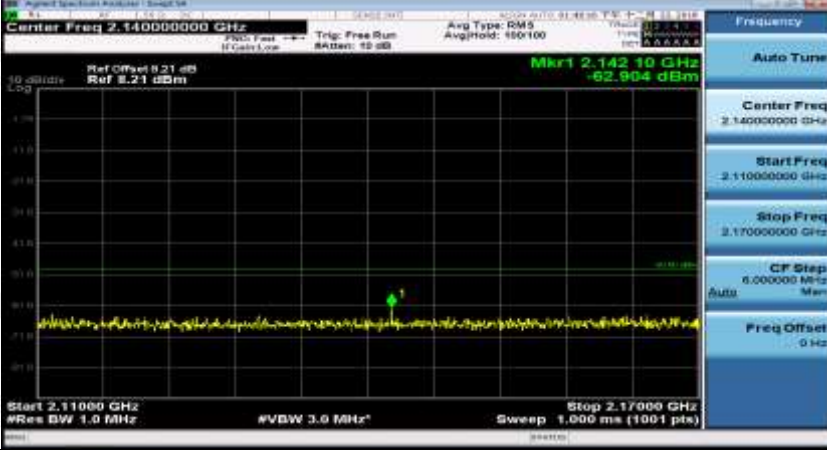
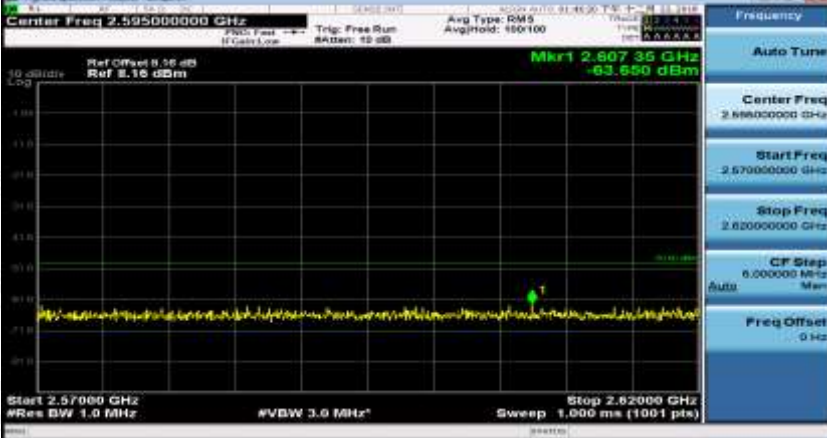
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General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.00000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 400.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 770.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 798.750000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 806.500000 MHz</p> <p>CF Step 1.500000 MHz</p> <p>Freq Offset 0 Hz</p>

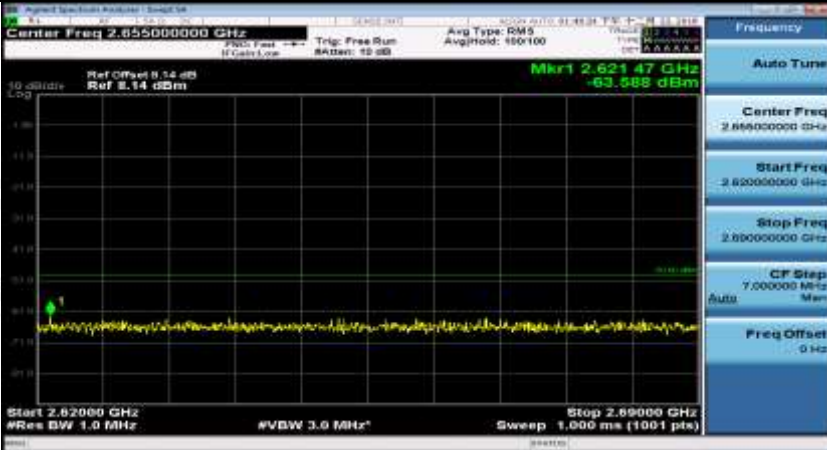
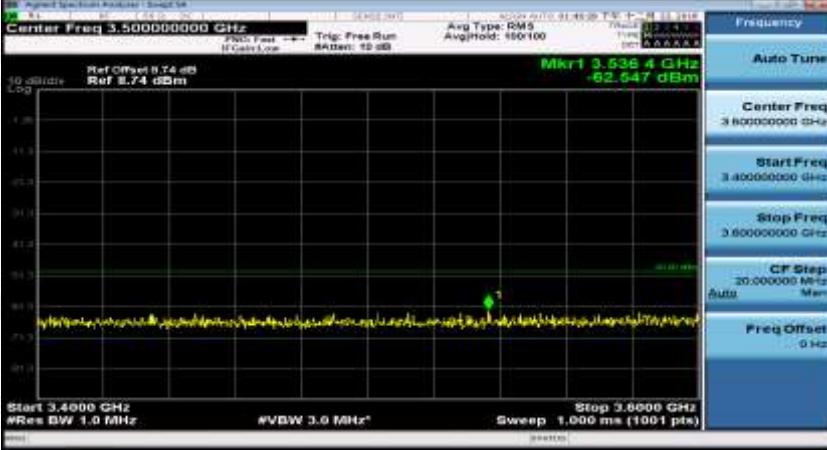
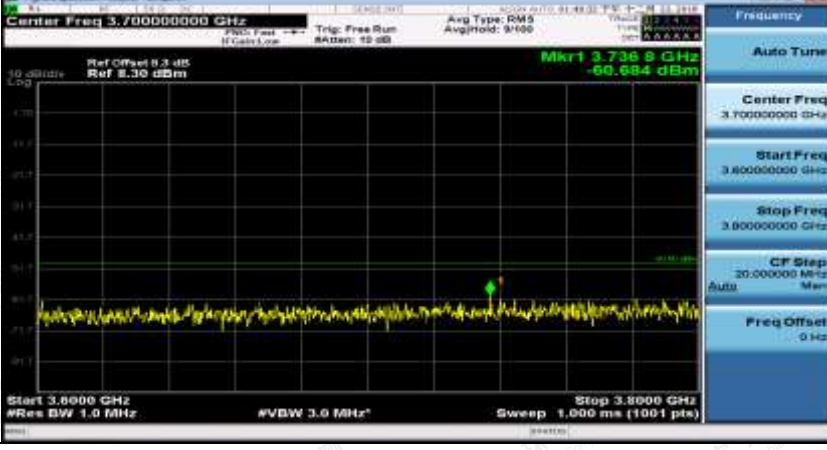
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Co-existence	
Co-existence	
Co-existence	

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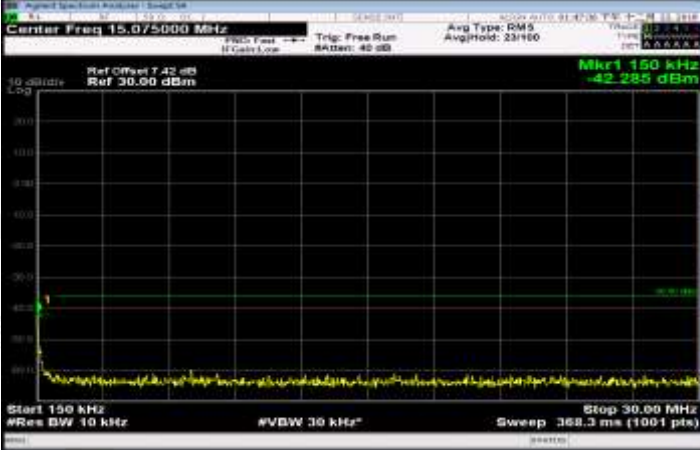
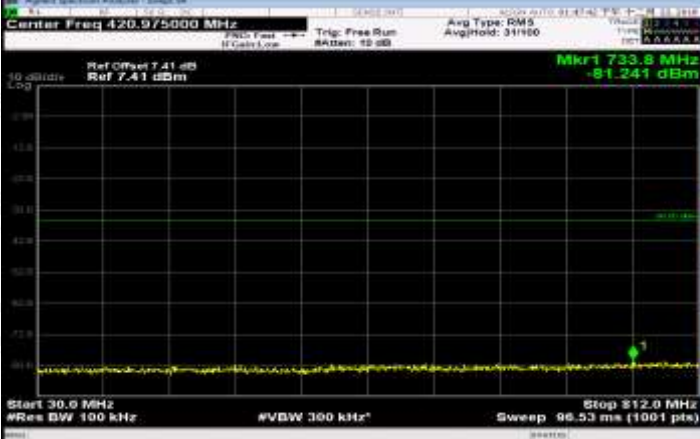
Co-existence	
Co-existence	
Co-existence	

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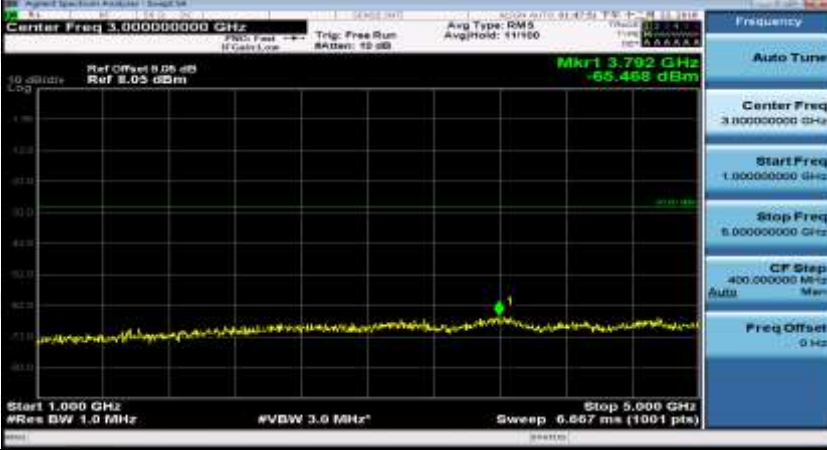

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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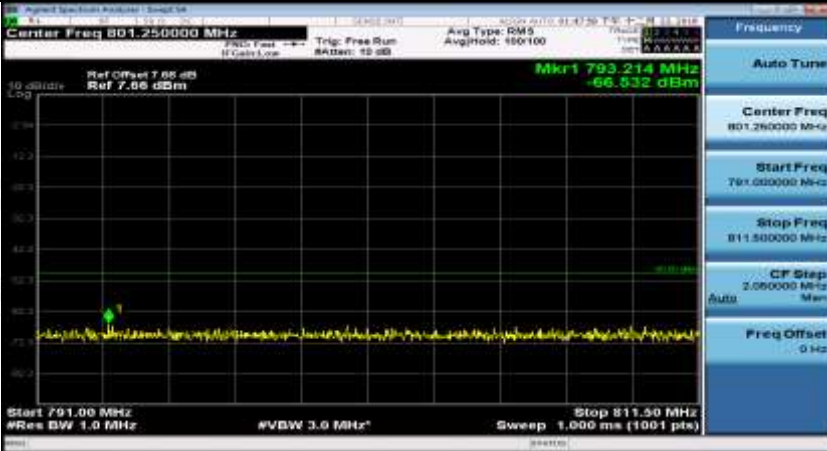
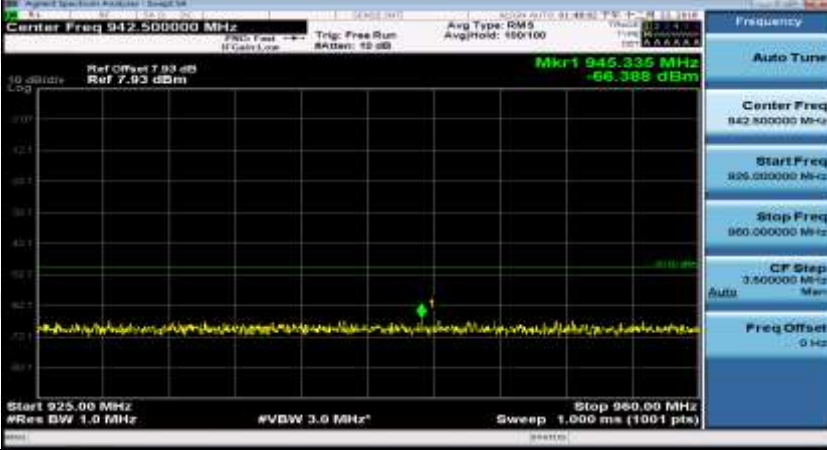
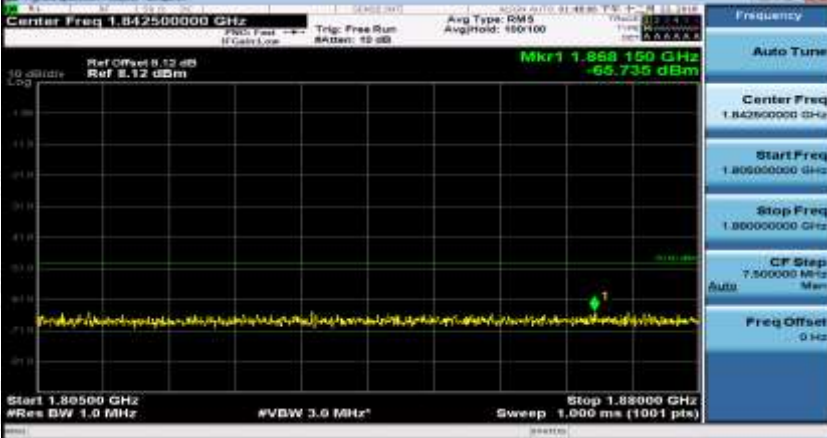
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

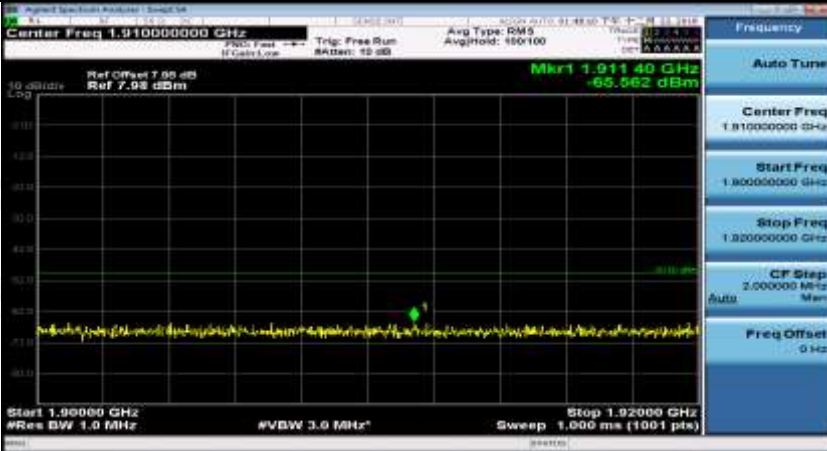
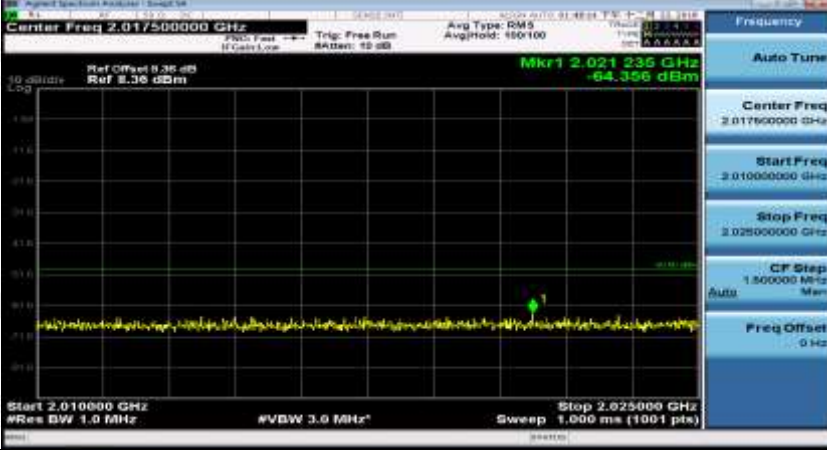
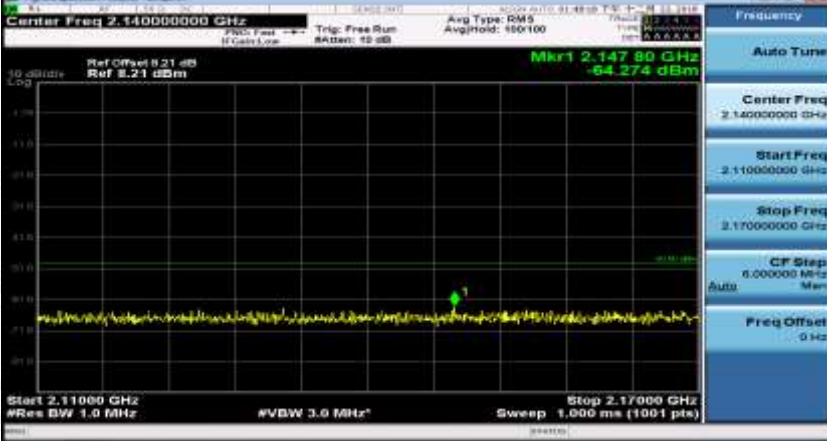
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General	
General	
General	

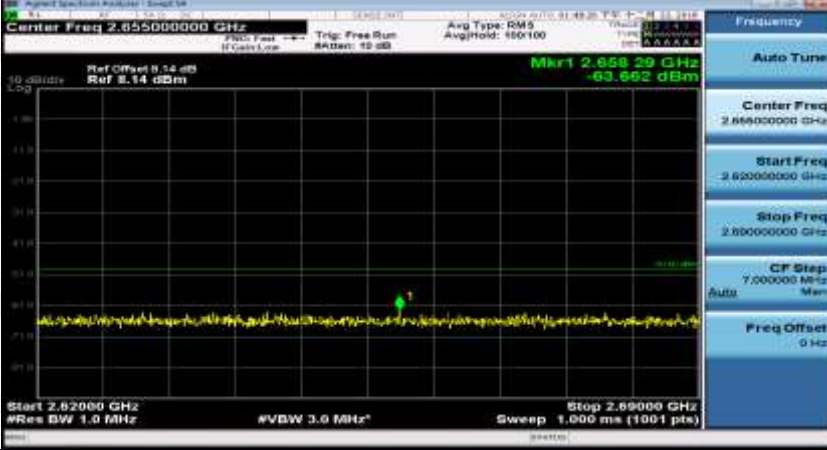
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Co-existence	
Co-existence	
Co-existence	

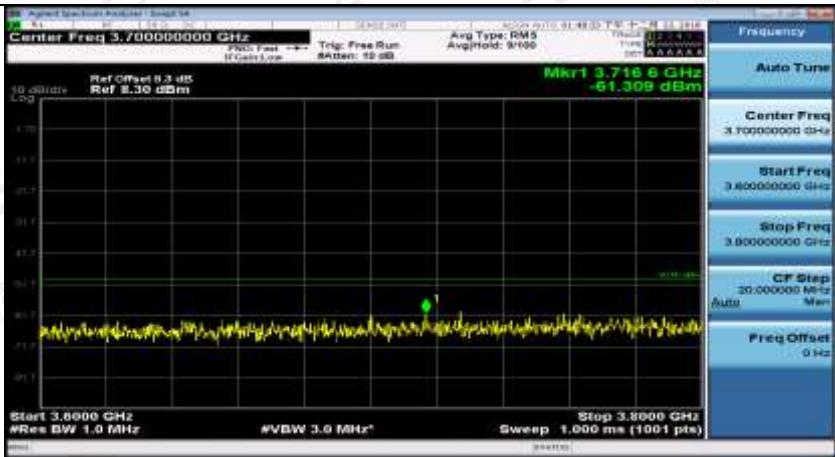
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Co-existence	
Co-existence	
Co-existence	

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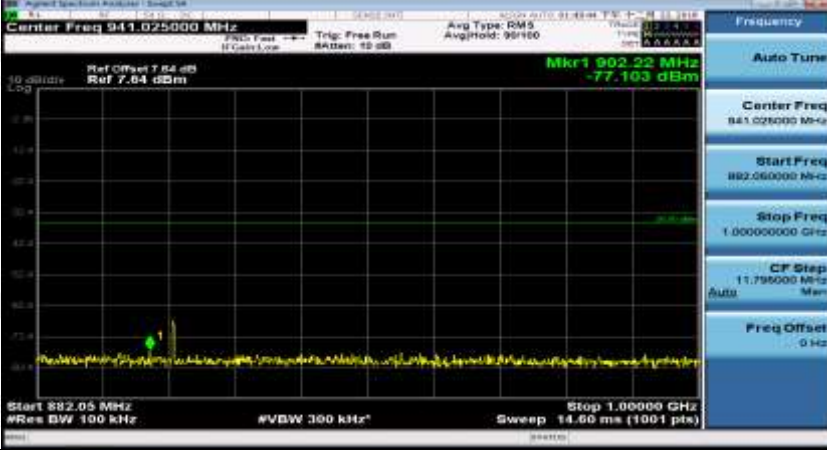

Co-existence	
Co-existence	
Co-existence	

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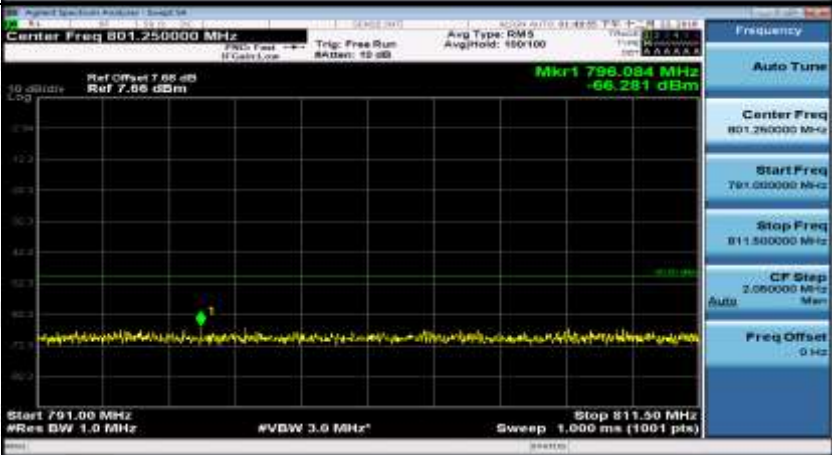
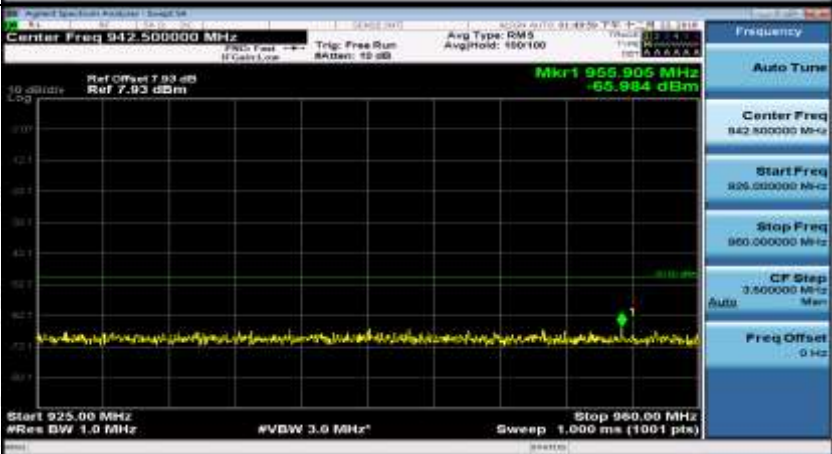
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	
General	


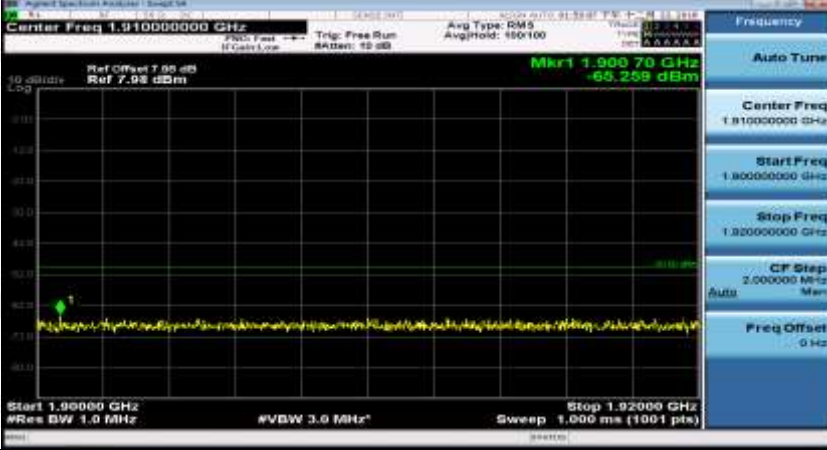

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General	
General	
General	

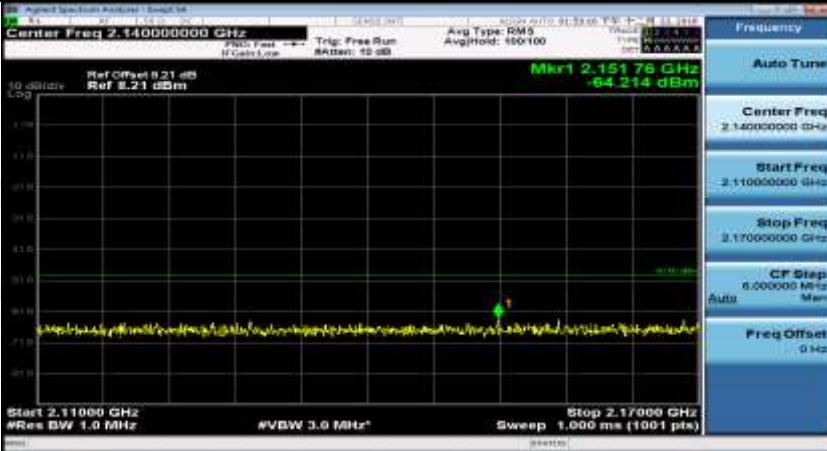
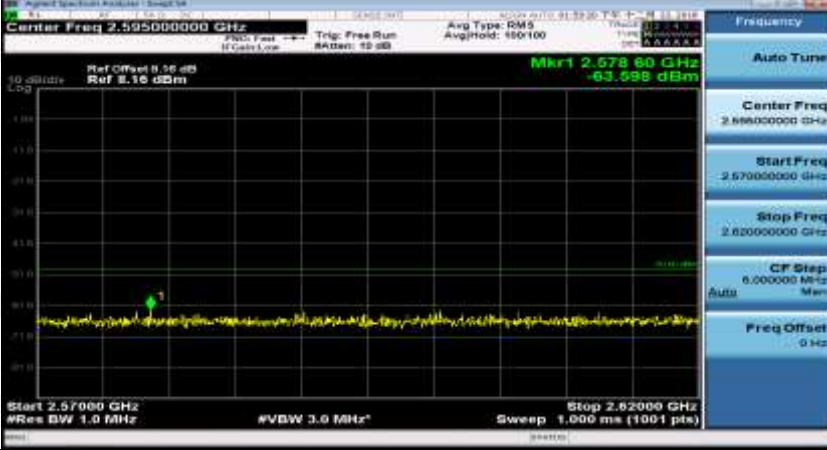
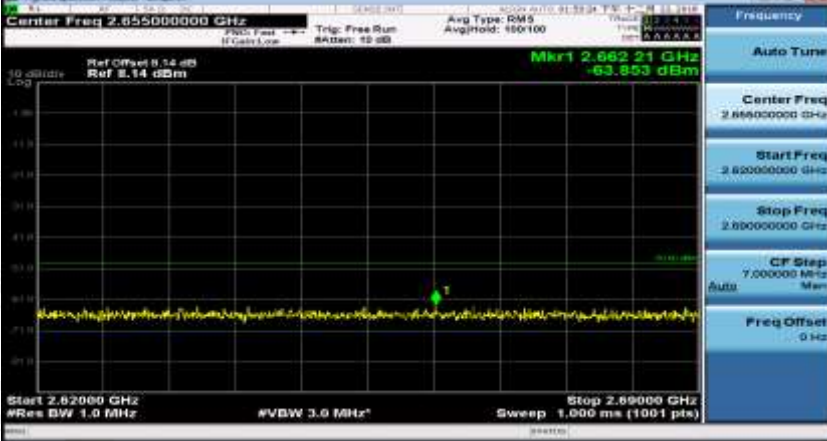
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General	
Co-existence	
Co-existence	

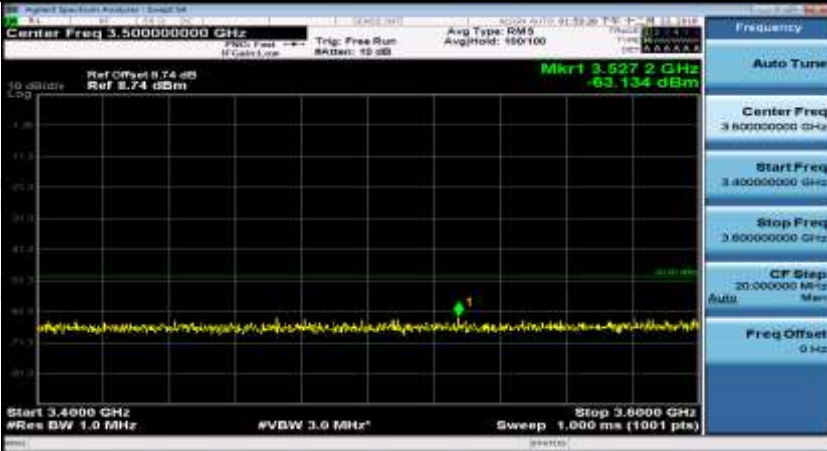
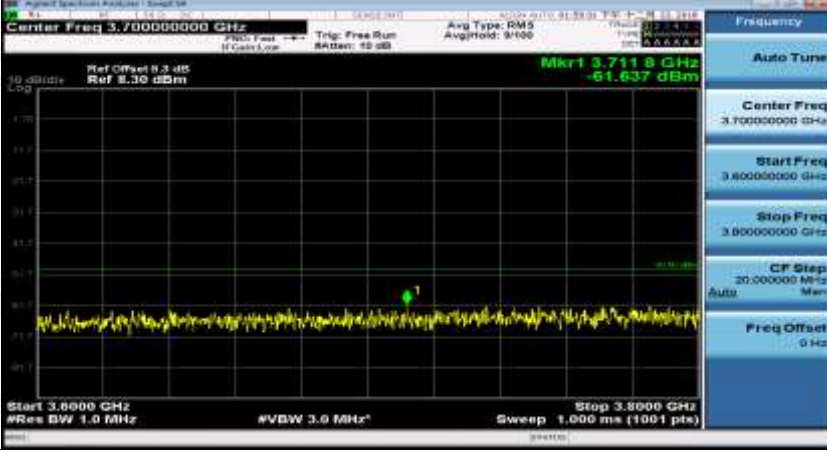
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


Co-existence	
Co-existence	
Co-existence	

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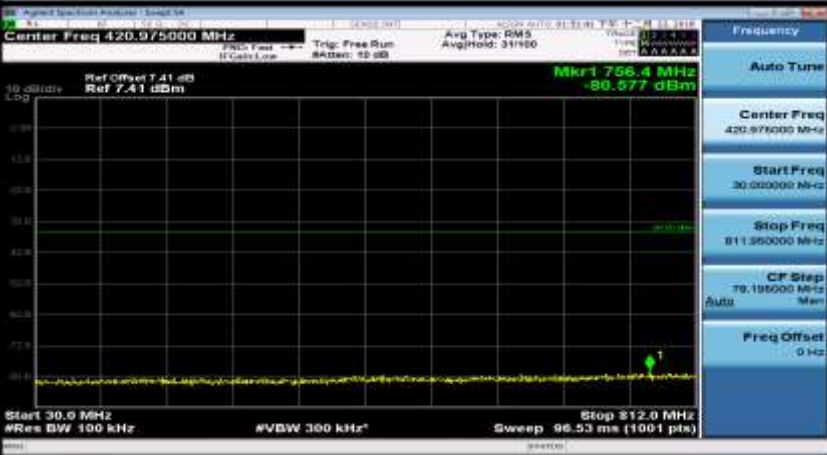

Co-existence	
Co-existence	
Co-existence	

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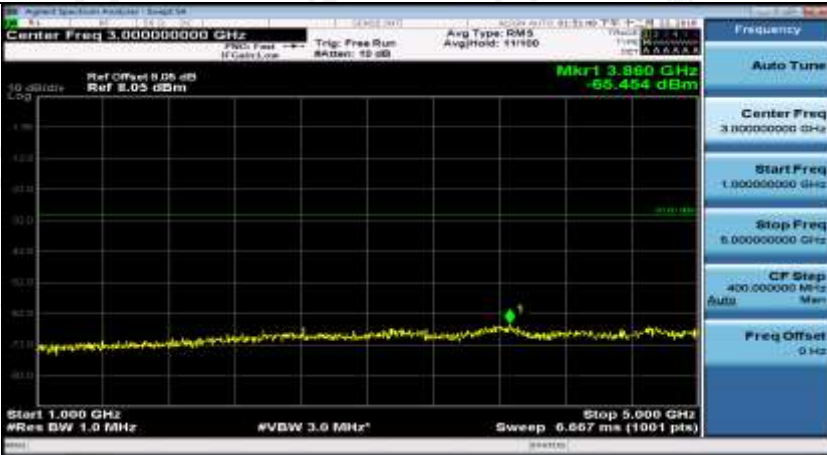

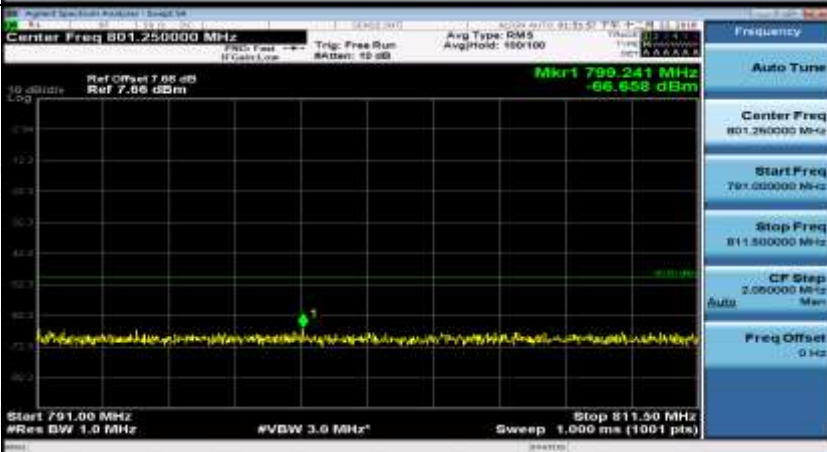
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullIRB#0	
General	




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General		
General		
General		


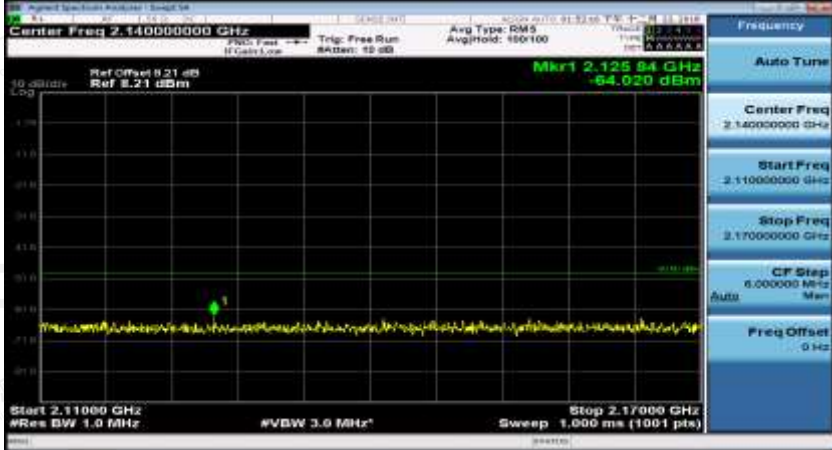

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General	
General	
Co-existence	

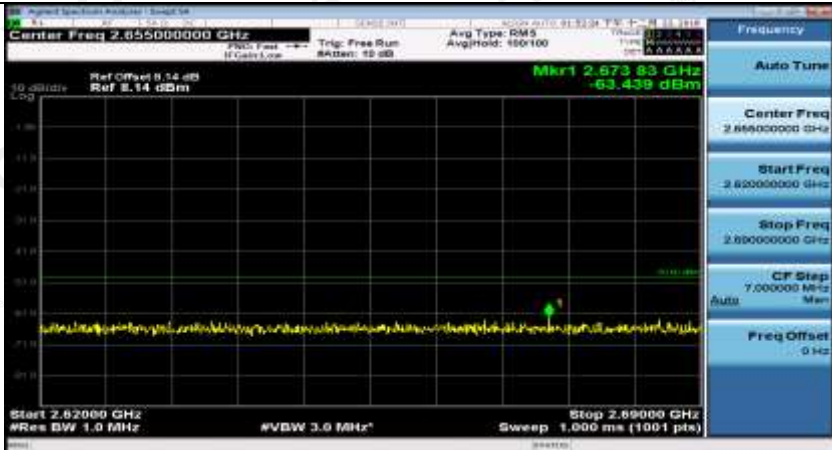
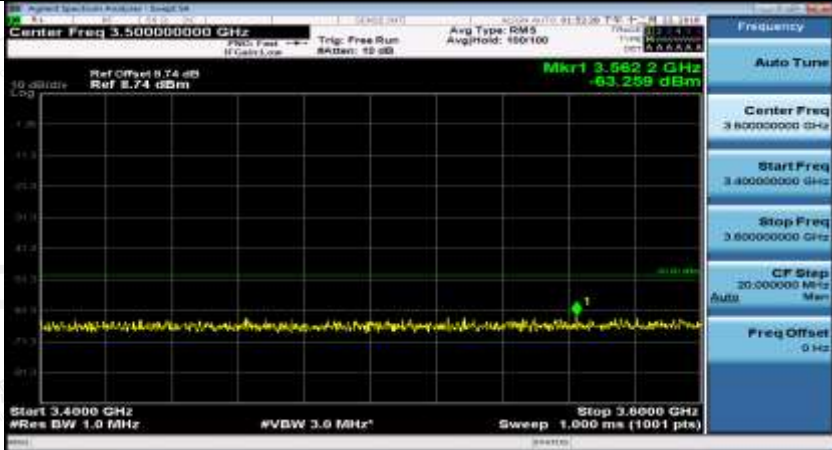
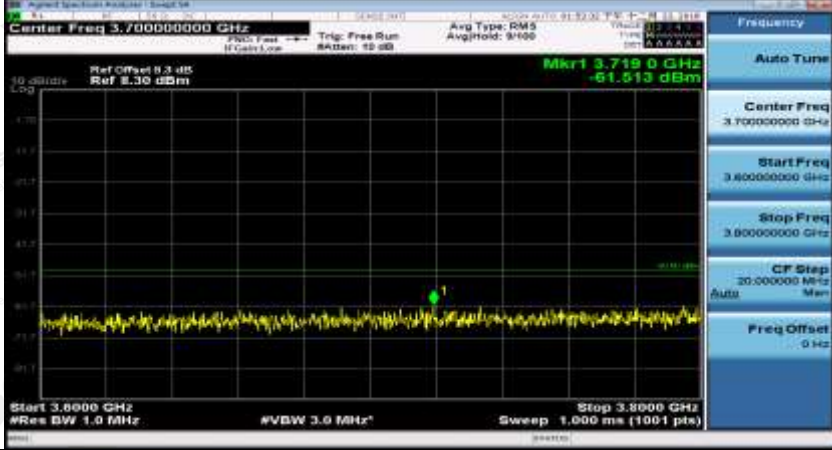
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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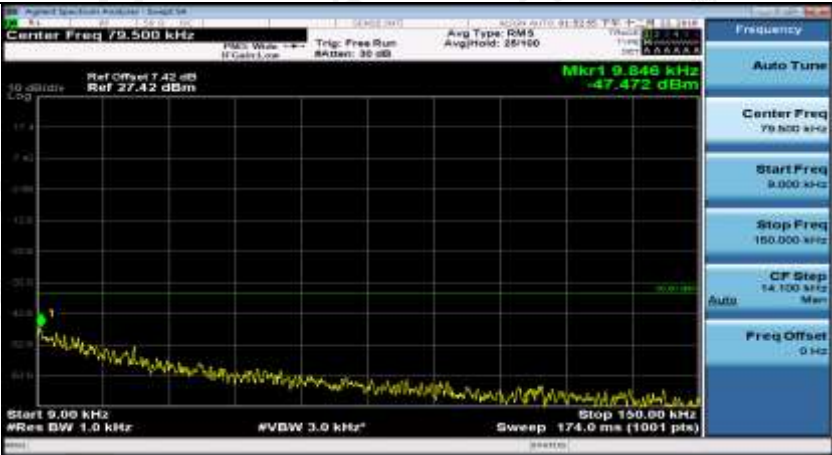


Co-existence	
Co-existence	
Co-existence	

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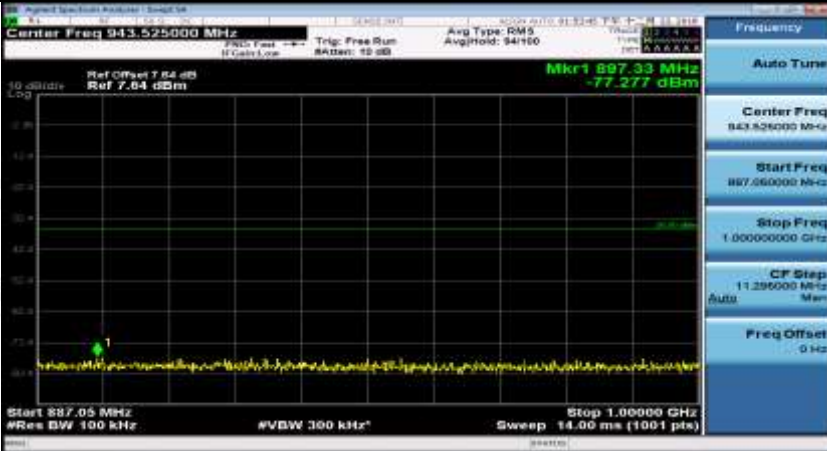

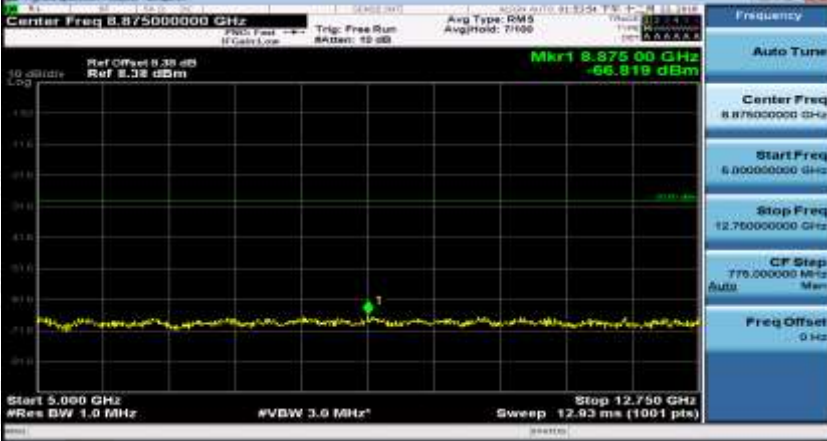
Co-existence	
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

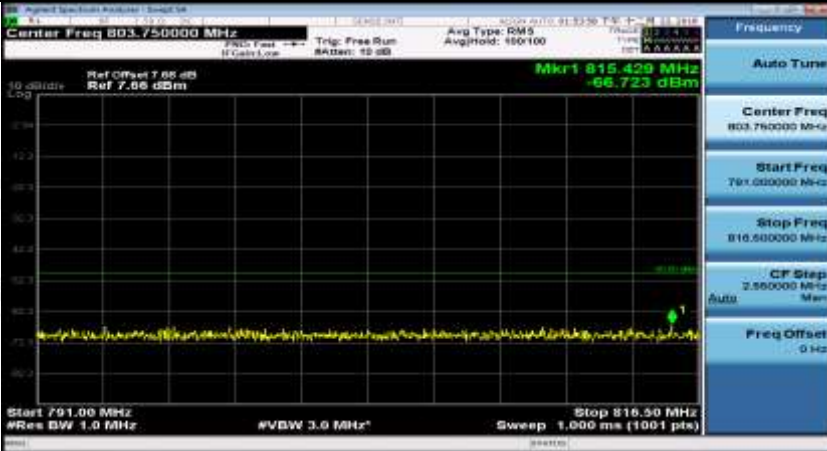
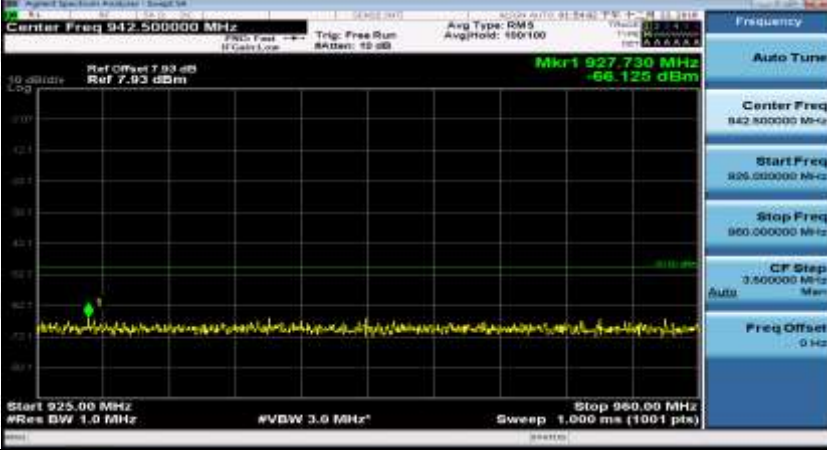
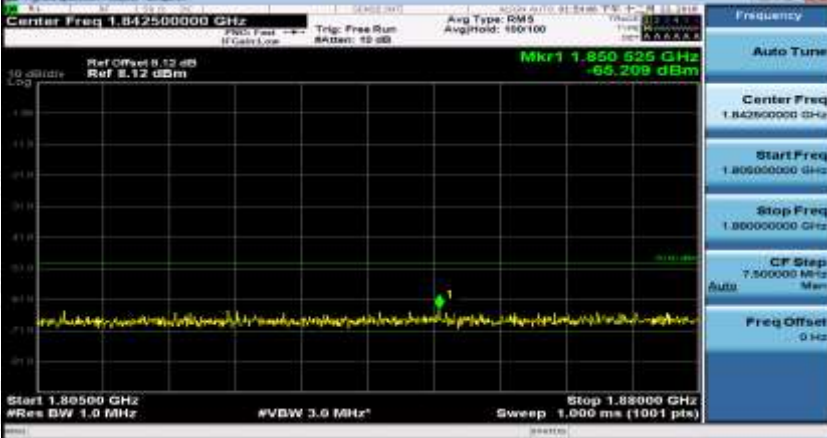
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General	
General	
General	

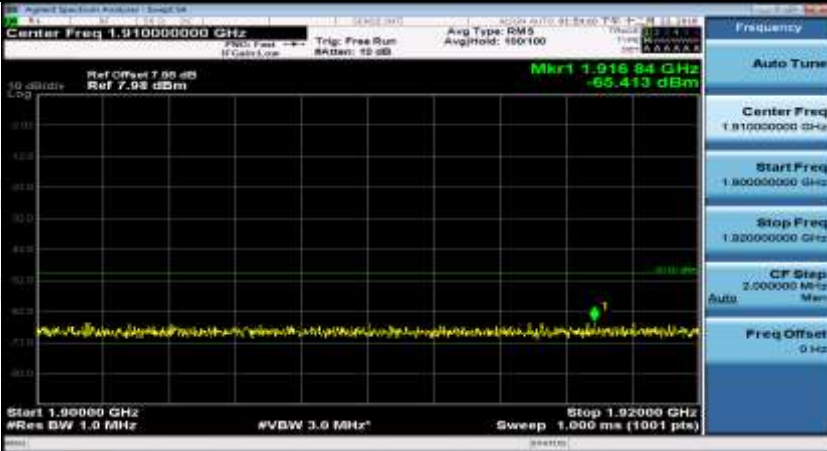
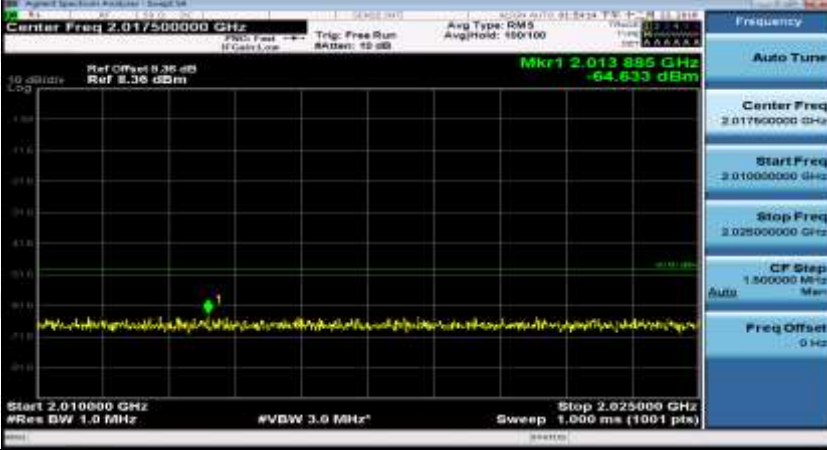
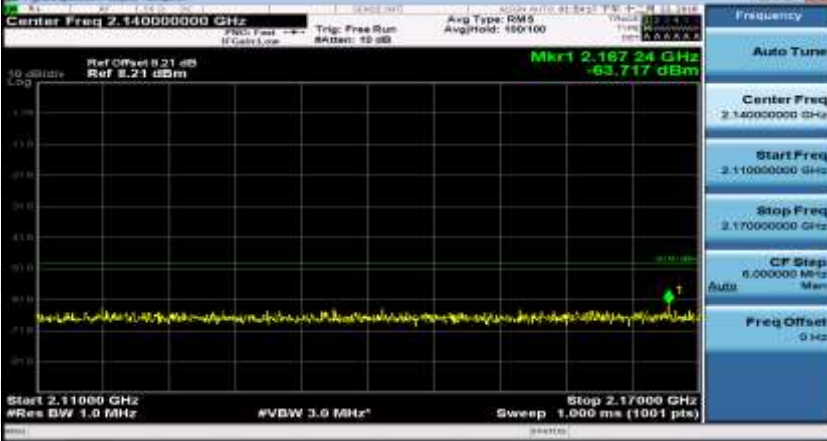
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General	
General	
General	


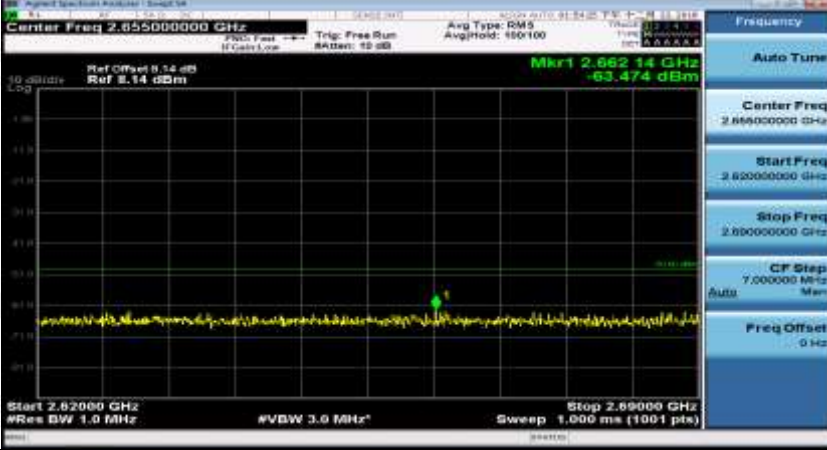
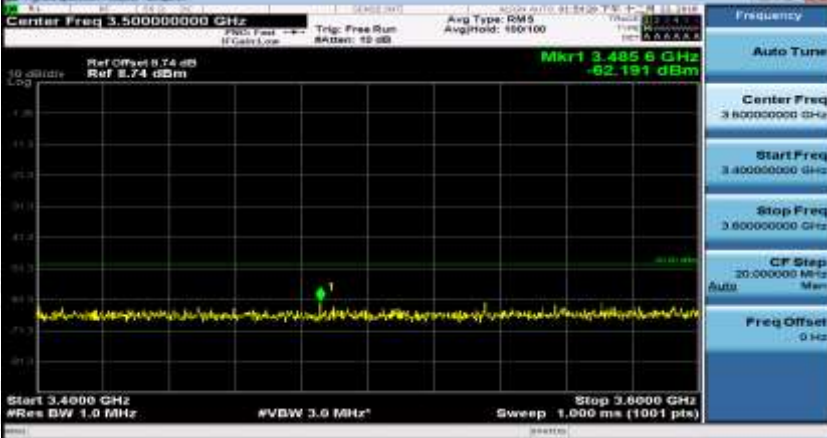
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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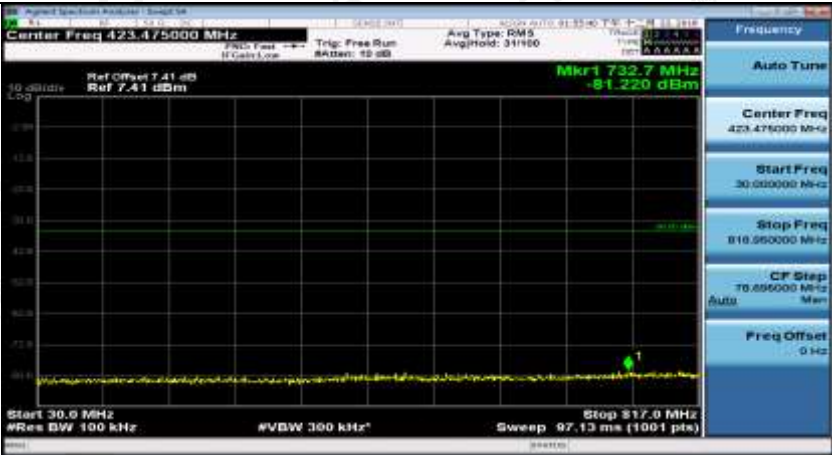
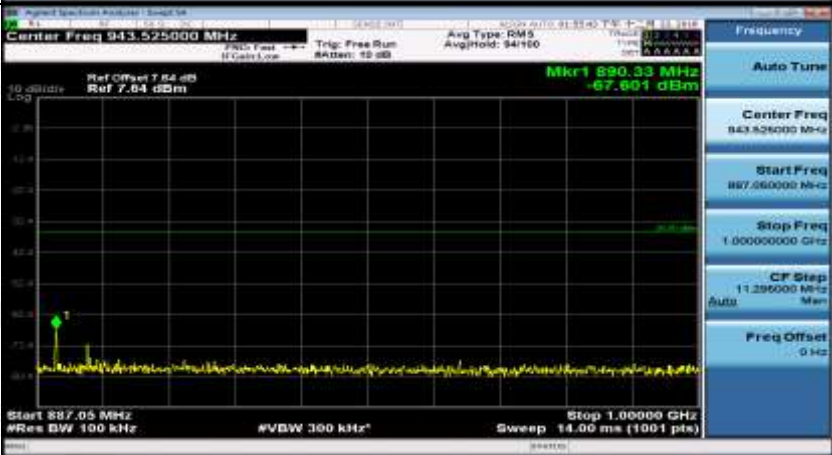
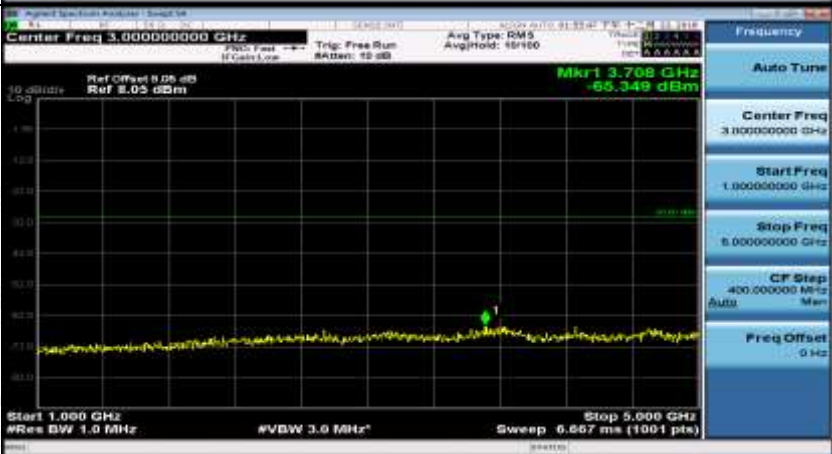
Co-existence	
Co-existence	
Co-existence	

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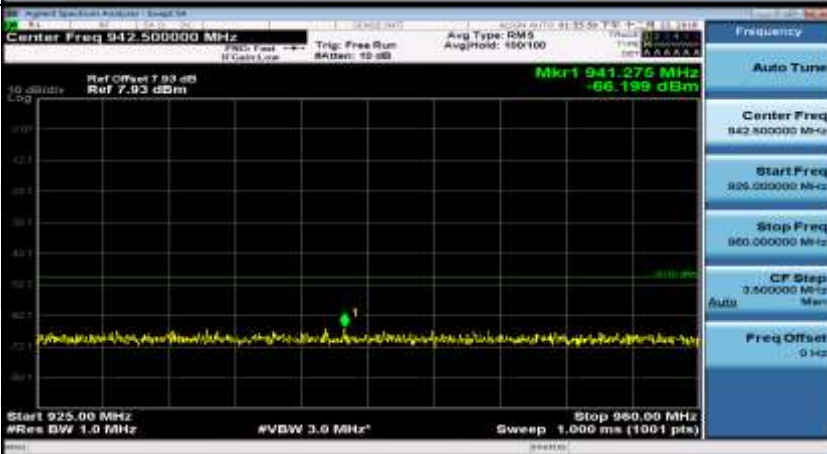
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	
General	


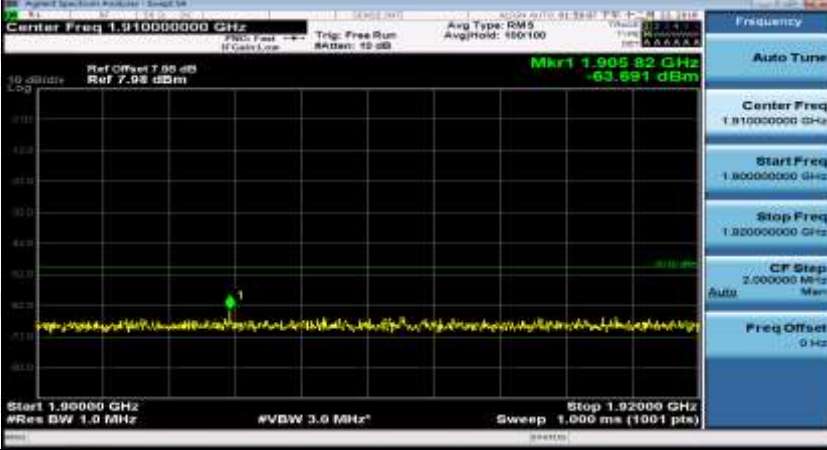

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General	
General	
General	

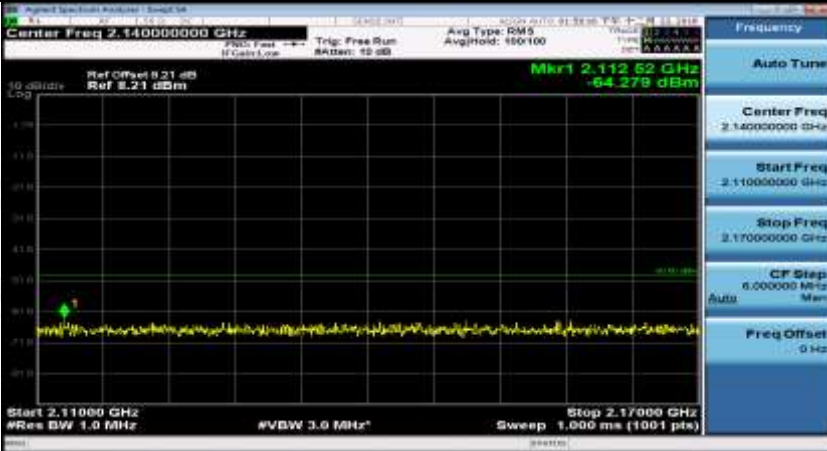
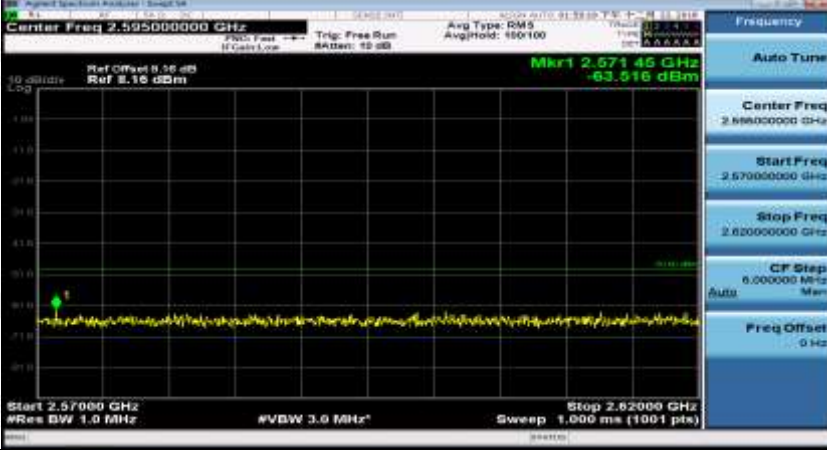
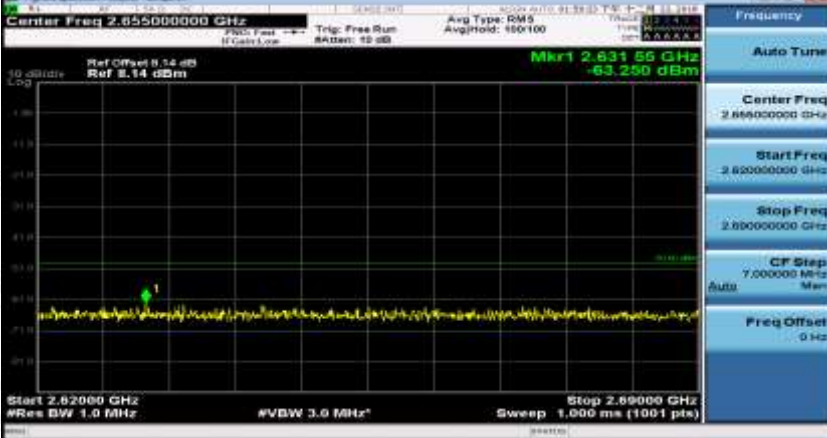
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General	
Co-existence	
Co-existence	

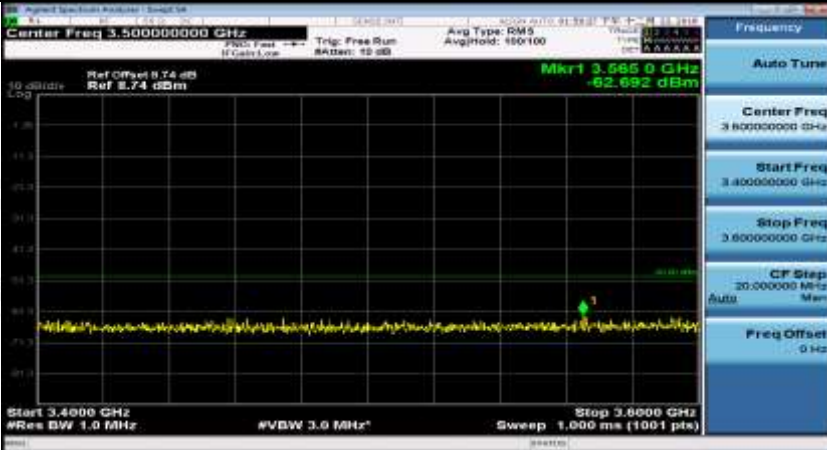
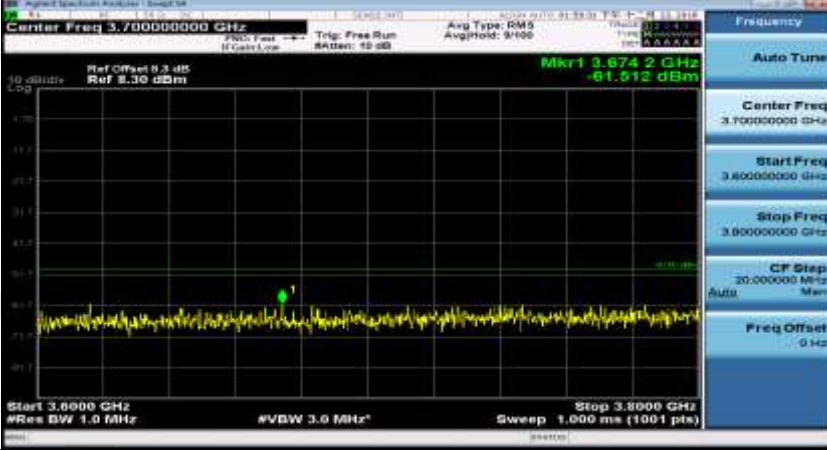
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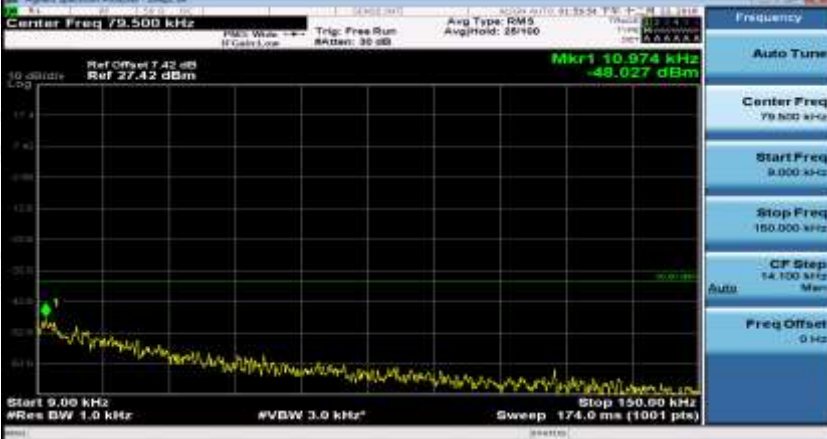
Co-existence	
Co-existence	
Co-existence	

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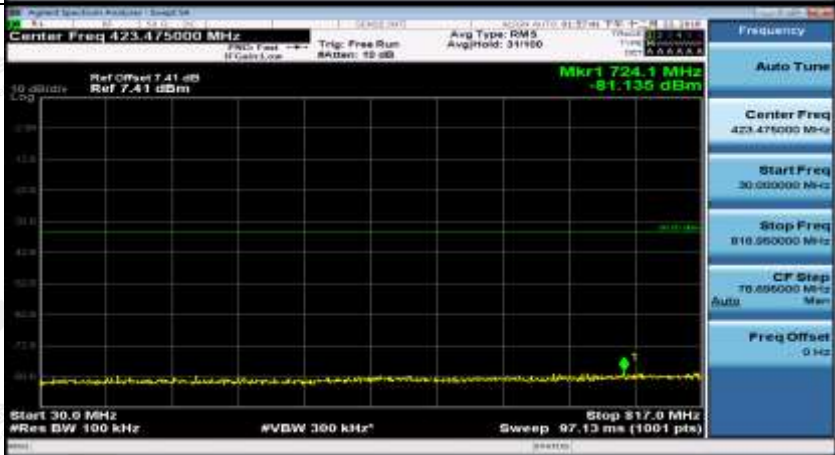

Co-existence	
Co-existence	
Co-existence	

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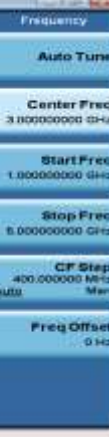

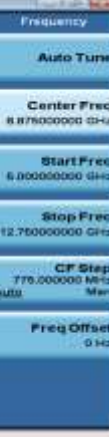
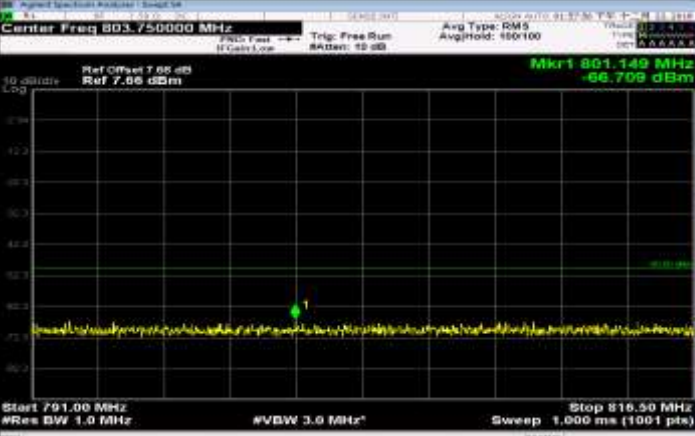
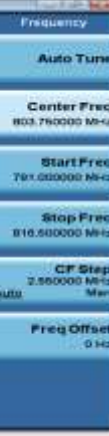
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	


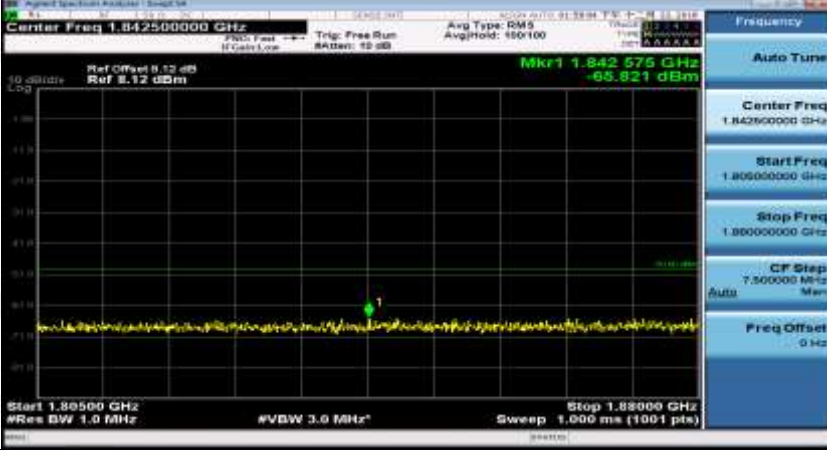
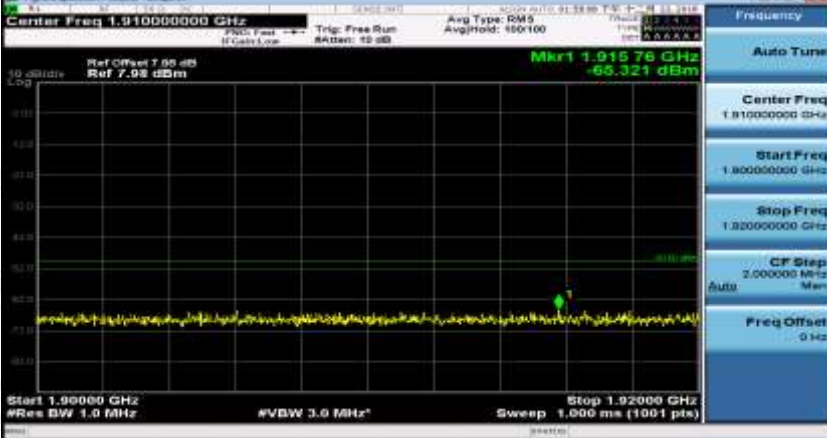
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General			
General			
General			

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General			
General			
Co-existence			

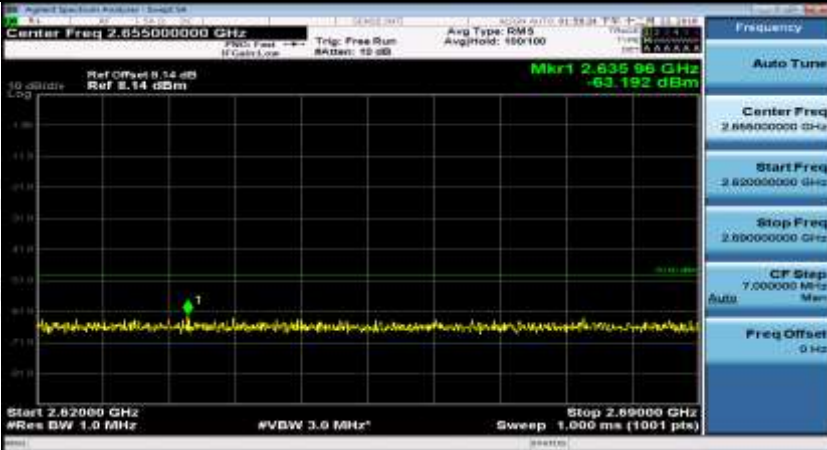
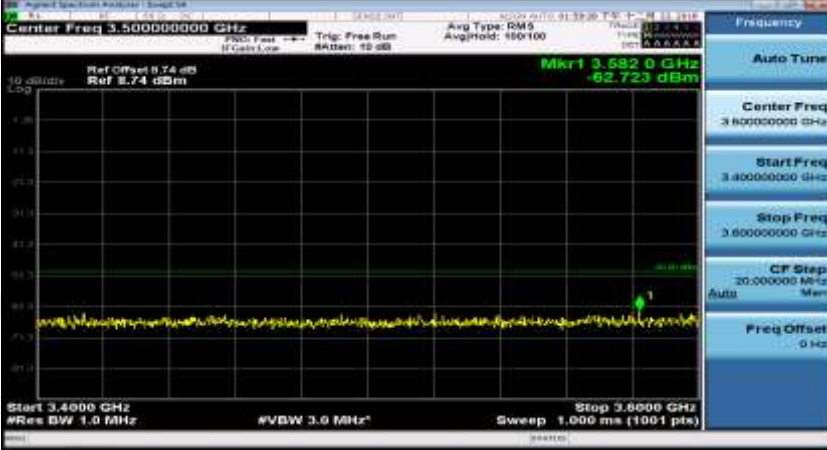
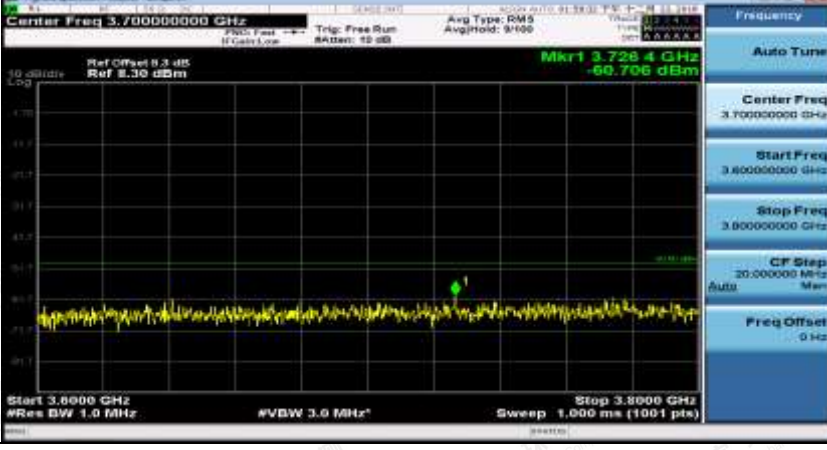
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

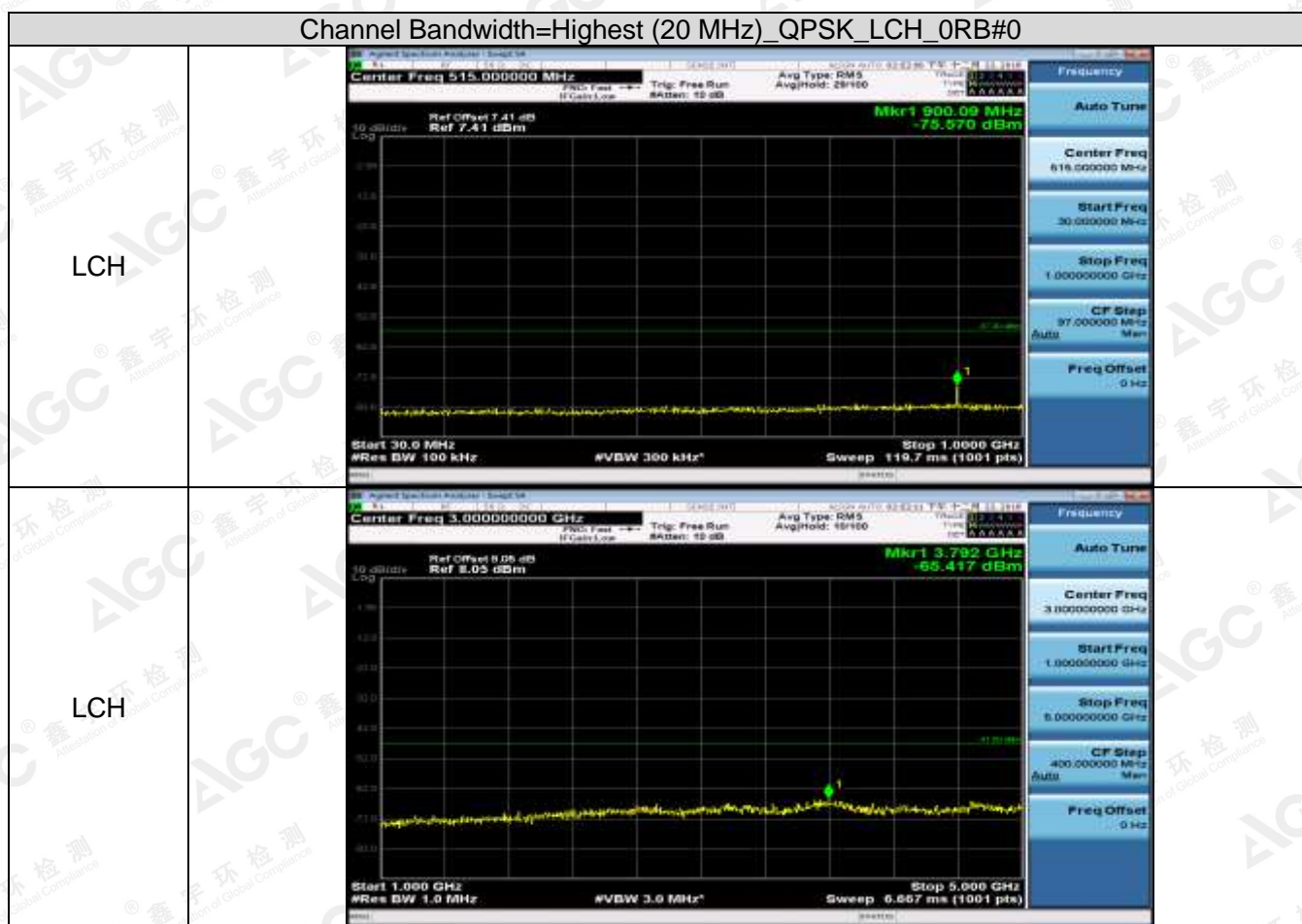
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

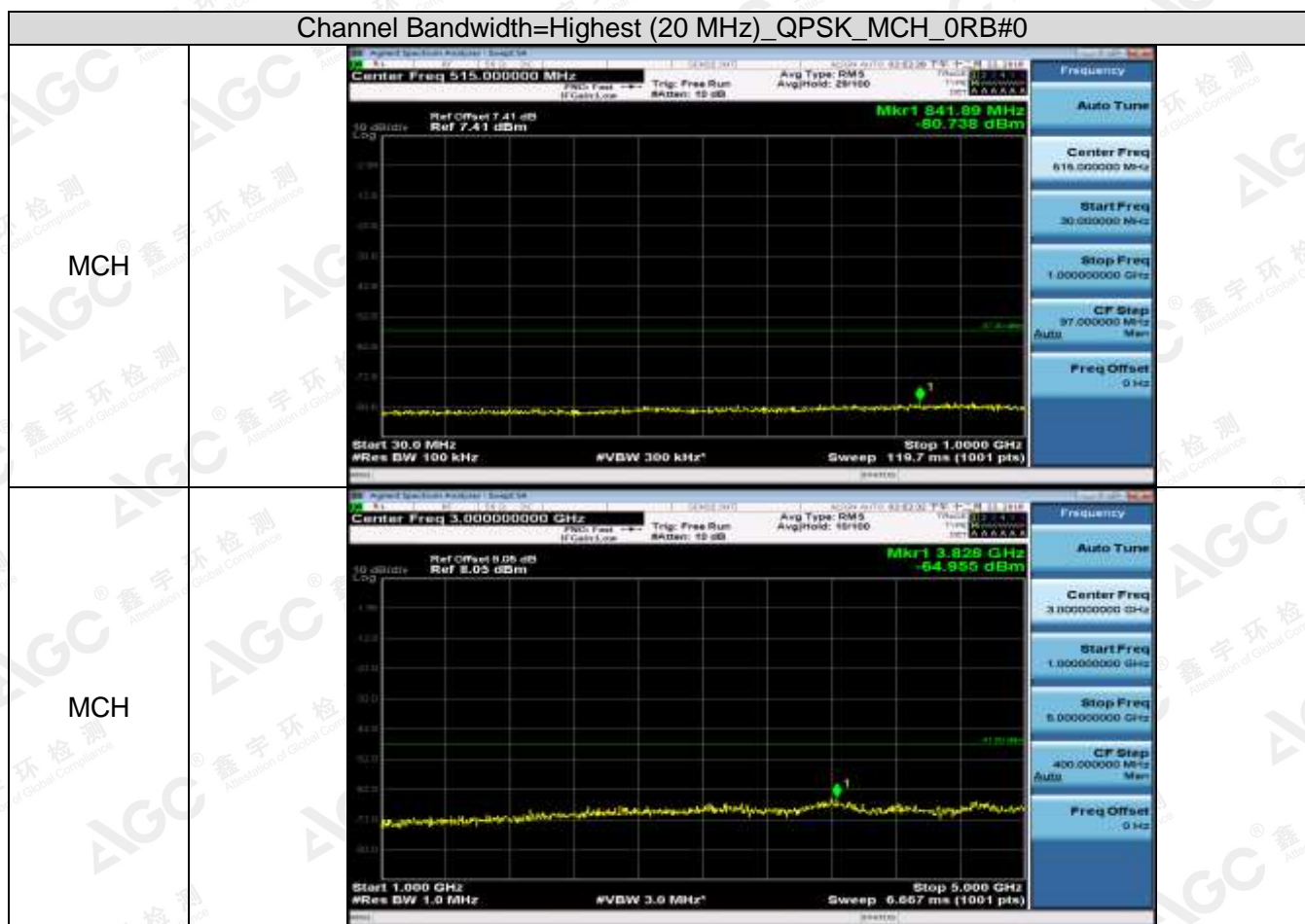
Test Graphs

NTNV

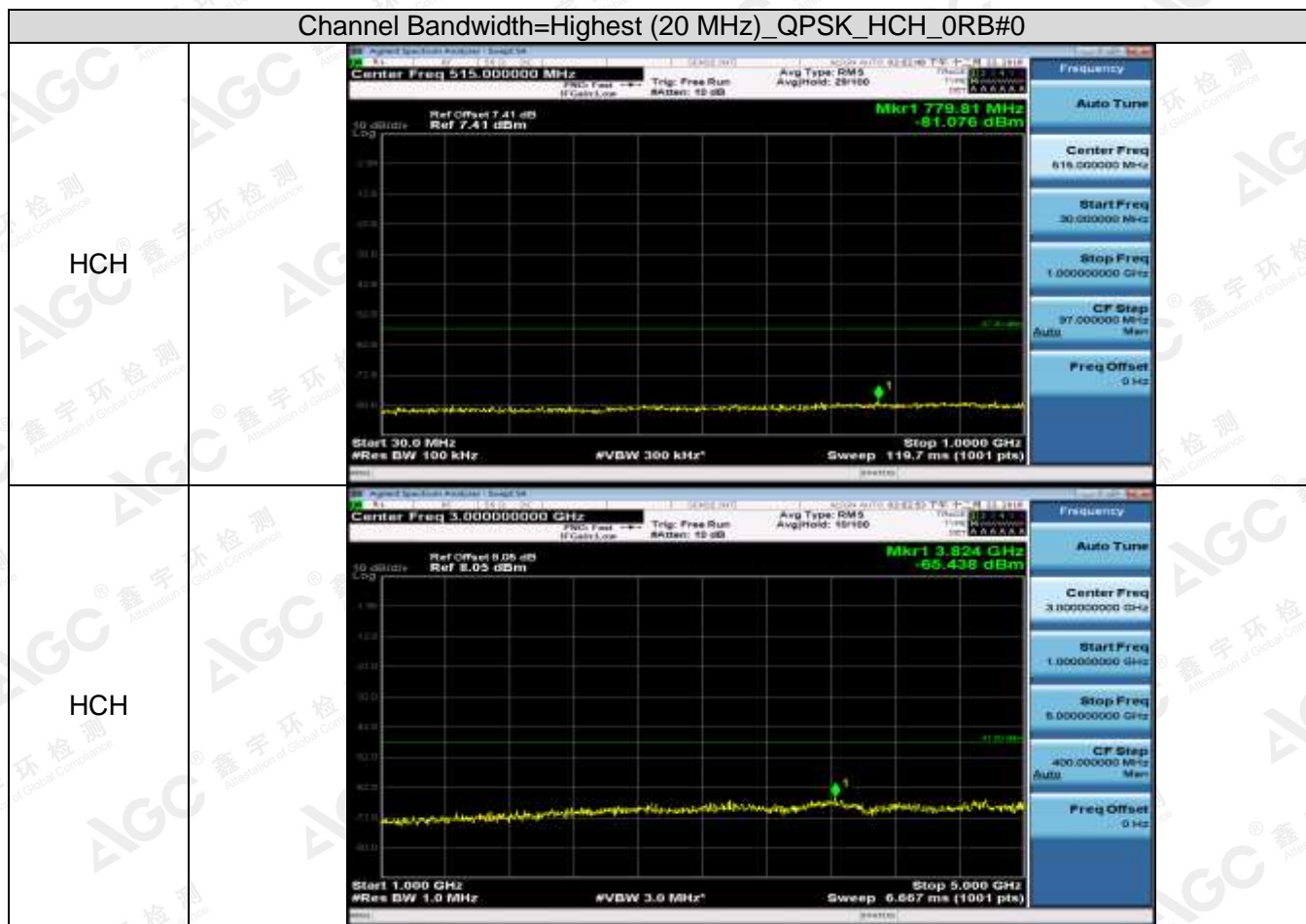
Channel Bandwidth=Highest



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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-86.74	-86.85	-87.32
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-73.50	-73.34	-73.96
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-71.23	-71.28	-72.59
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment		NC			
Test Frequencies		Mid range			
Test Channel Bandwidths		Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 20			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

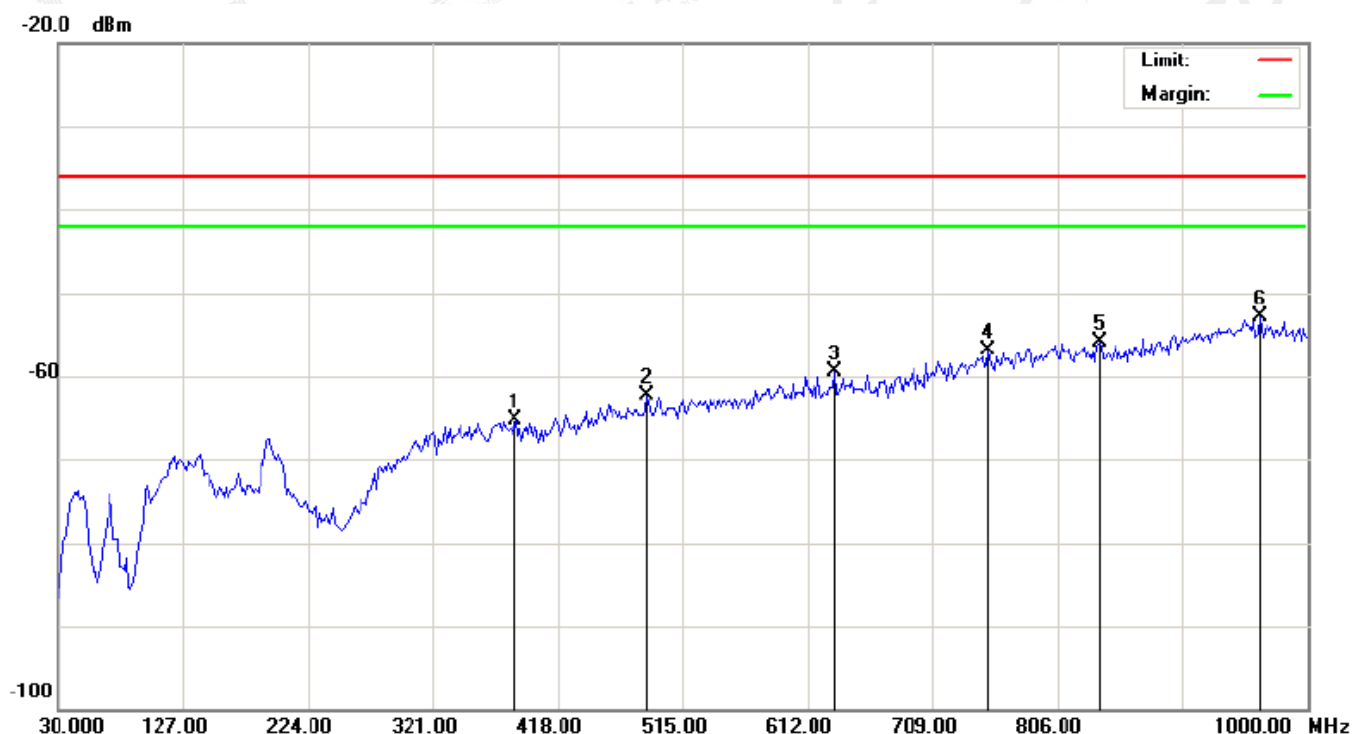
NTNV

	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfiguration		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
			FDD		FDD		
TNVN	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					
TL,VL	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					
TL,VH	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					

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APPENDIX F. RADIATED SPURIOUS EMISSIONS TEST RESULT

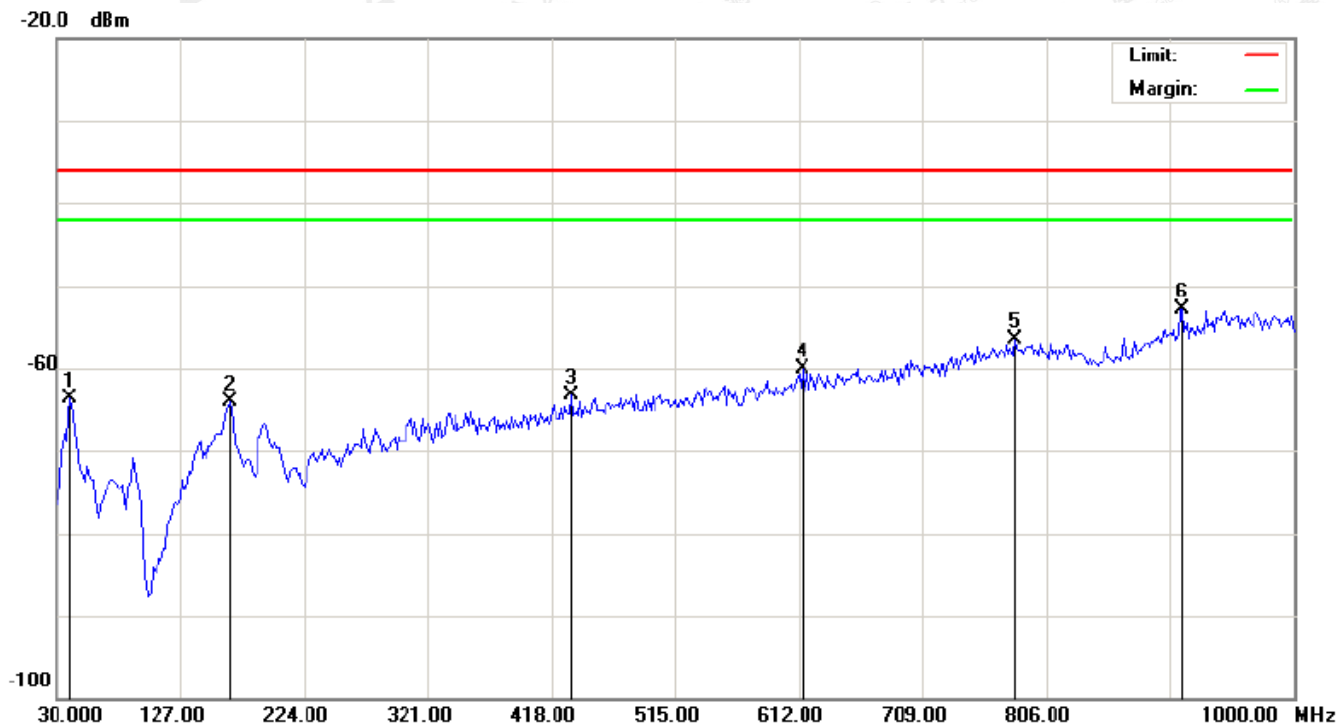
Radiated spurious emissions LTE band 1 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		385.6666	-106.18	40.89	-65.29	-36.00	-29.29	peak			
2		487.5167	-105.36	43.08	-62.28	-36.00	-26.28	peak			
3		633.0167	-105.27	45.68	-59.59	-36.00	-23.59	peak			
4		752.6500	-105.26	48.34	-56.92	-36.00	-20.92	peak			
5		838.3333	-105.14	49.31	-55.83	-36.00	-19.83	peak			
6	*	962.8167	-104.86	51.88	-52.98	-36.00	-16.98	peak			

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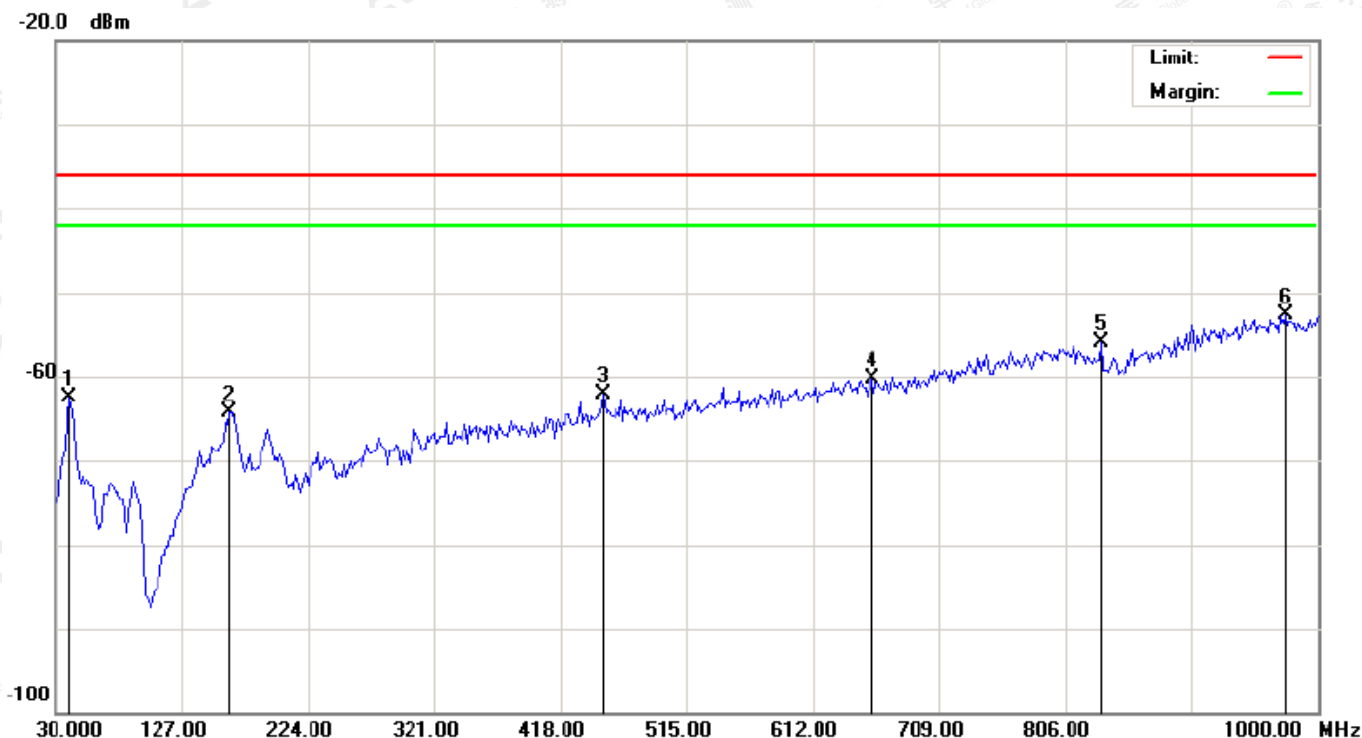
Radiated spurious emissions LTE band 1 Below 1GHz- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-94.27	30.63	-63.64	-36.00	-27.64	peak			
2		165.8000	-101.02	36.89	-64.13	-36.00	-28.13	peak			
3		434.1667	-105.53	42.20	-63.33	-36.00	-27.33	peak			
4		615.2333	-105.26	45.07	-60.19	-36.00	-24.19	peak			
5		781.7500	-105.37	48.89	-56.48	-36.00	-20.48	peak			
6	*	912.7000	-103.76	50.96	-52.80	-36.00	-16.80	peak			

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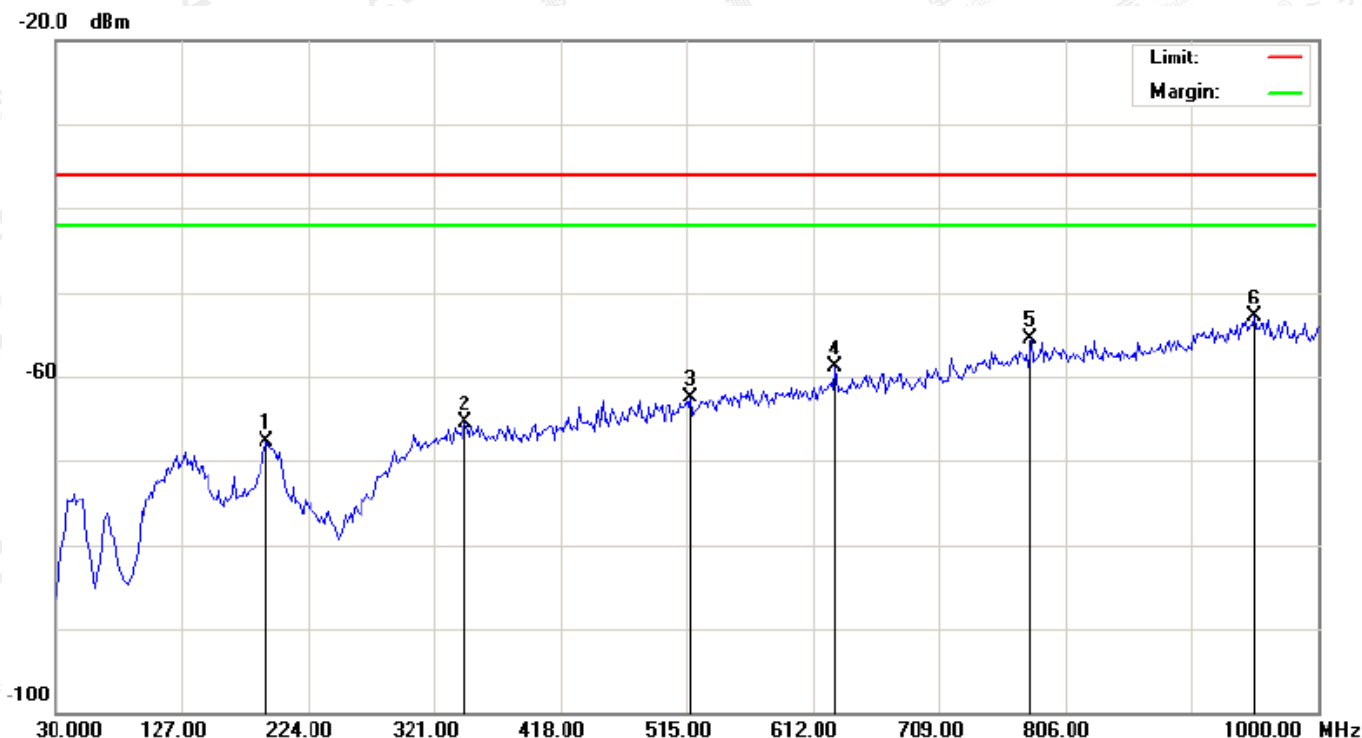
Radiated spurious emissions LTE band 3 Below 1GHZ-H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-93.15	30.63	-62.52	-36.00	-26.52	peak			
2		164.1833	-101.23	36.99	-64.24	-36.00	-28.24	peak			
3		450.3333	-104.60	42.59	-62.01	-36.00	-26.01	peak			
4		657.2667	-106.41	46.04	-60.37	-36.00	-24.37	peak			
5		833.4833	-103.77	47.97	-55.80	-36.00	-19.80	peak			
6	*	975.7500	-105.02	52.27	-52.75	-36.00	-16.75	peak			

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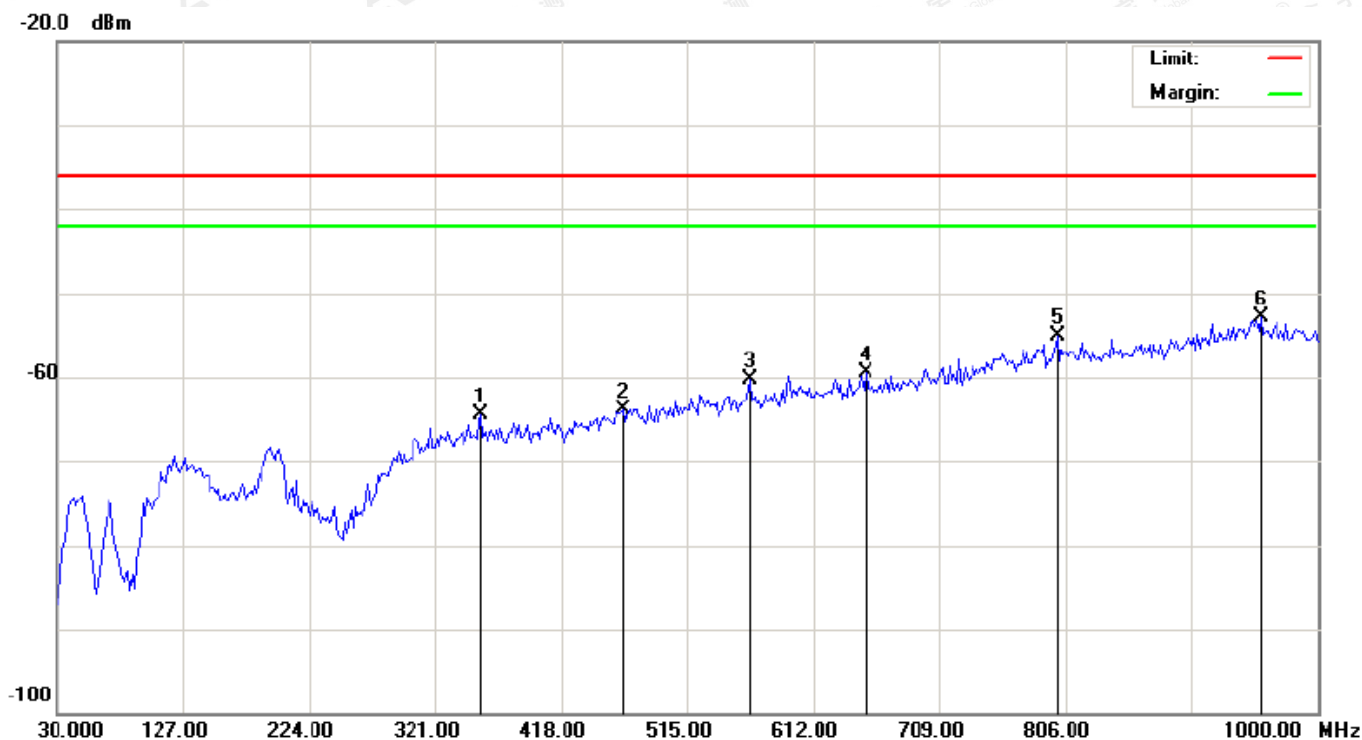
Radiated spurious emissions LTE band 3 Below 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		191.6667	-101.73	34.03	-67.70	-36.00	-31.70	peak			
2		345.2500	-105.66	40.12	-65.54	-36.00	-29.54	peak			
3		518.2333	-106.35	43.82	-62.53	-36.00	-26.53	peak			
4		629.7833	-104.61	45.65	-58.96	-36.00	-22.96	peak			
5		780.1332	-104.40	48.91	-55.49	-36.00	-19.49	peak			
6	*	951.5000	-104.97	51.99	-52.98	-36.00	-16.98	peak			

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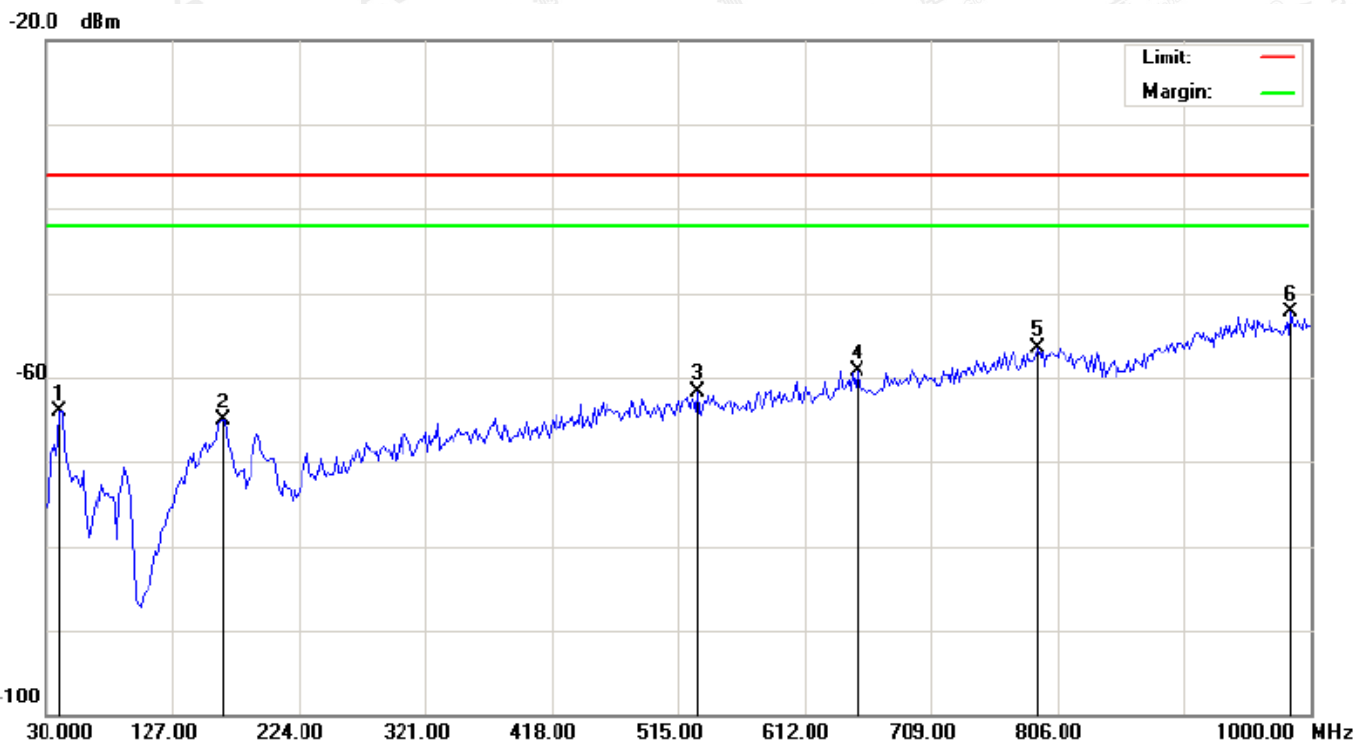
Radiated spurious emissions LTE band 7 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		356.5667	-105.07	40.50	-64.57	-36.00	-28.57	peak			
2		466.5000	-106.44	42.62	-63.82	-36.00	-27.82	peak			
3		563.5000	-105.17	44.82	-60.35	-36.00	-24.35	peak			
4		652.4167	-105.45	45.91	-59.54	-36.00	-23.54	peak			
5		799.5333	-104.49	49.31	-55.18	-36.00	-19.18	peak			
6	*	956.3500	-104.77	51.94	-52.83	-36.00	-16.83	peak			

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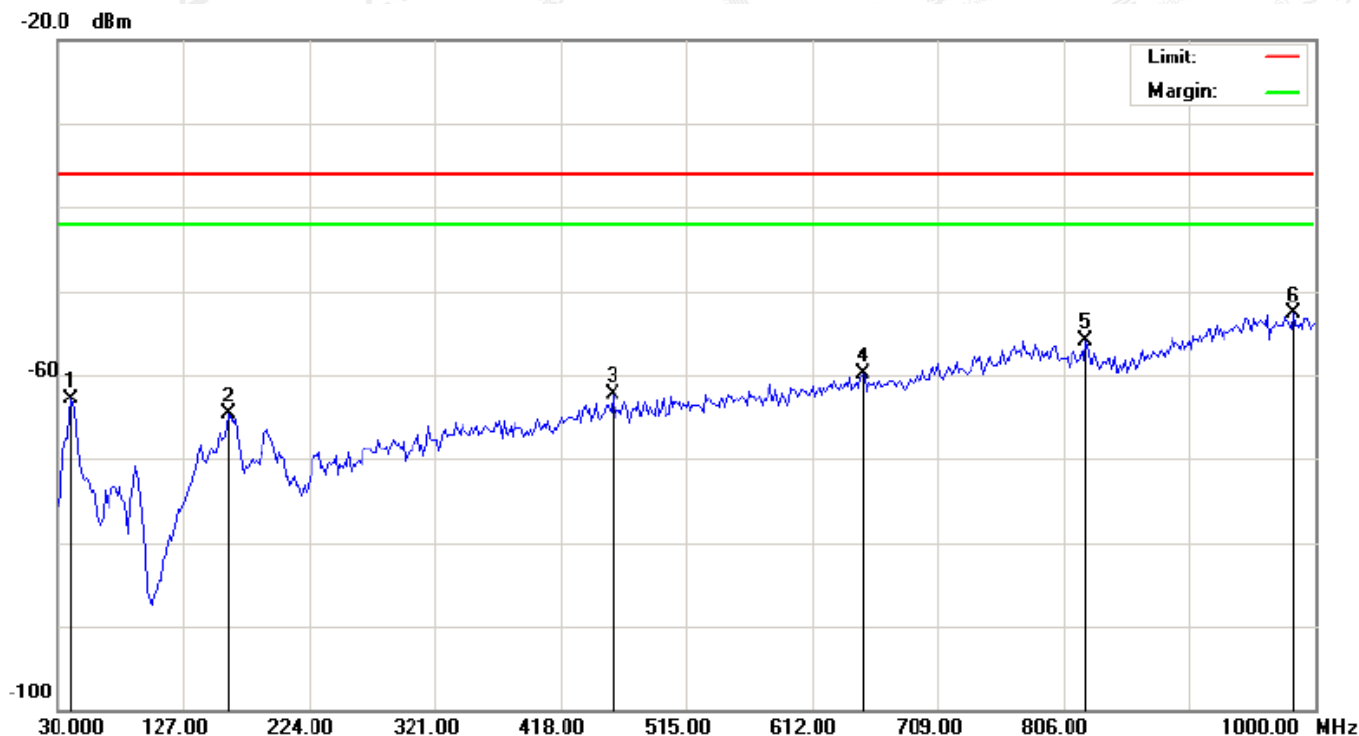
Radiated spurious emissions LTE band 7 Below 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-94.66	30.63	-64.03	-36.00	-28.03	peak			
2		165.8000	-101.94	36.89	-65.05	-36.00	-29.05	peak			
3		529.5500	-105.72	43.94	-61.78	-36.00	-25.78	peak			
4		652.4167	-105.13	45.91	-59.22	-36.00	-23.22	peak			
5		791.4500	-105.55	49.12	-56.43	-36.00	-20.43	peak			
6	*	985.4500	-104.68	52.37	-52.31	-36.00	-16.31	peak			

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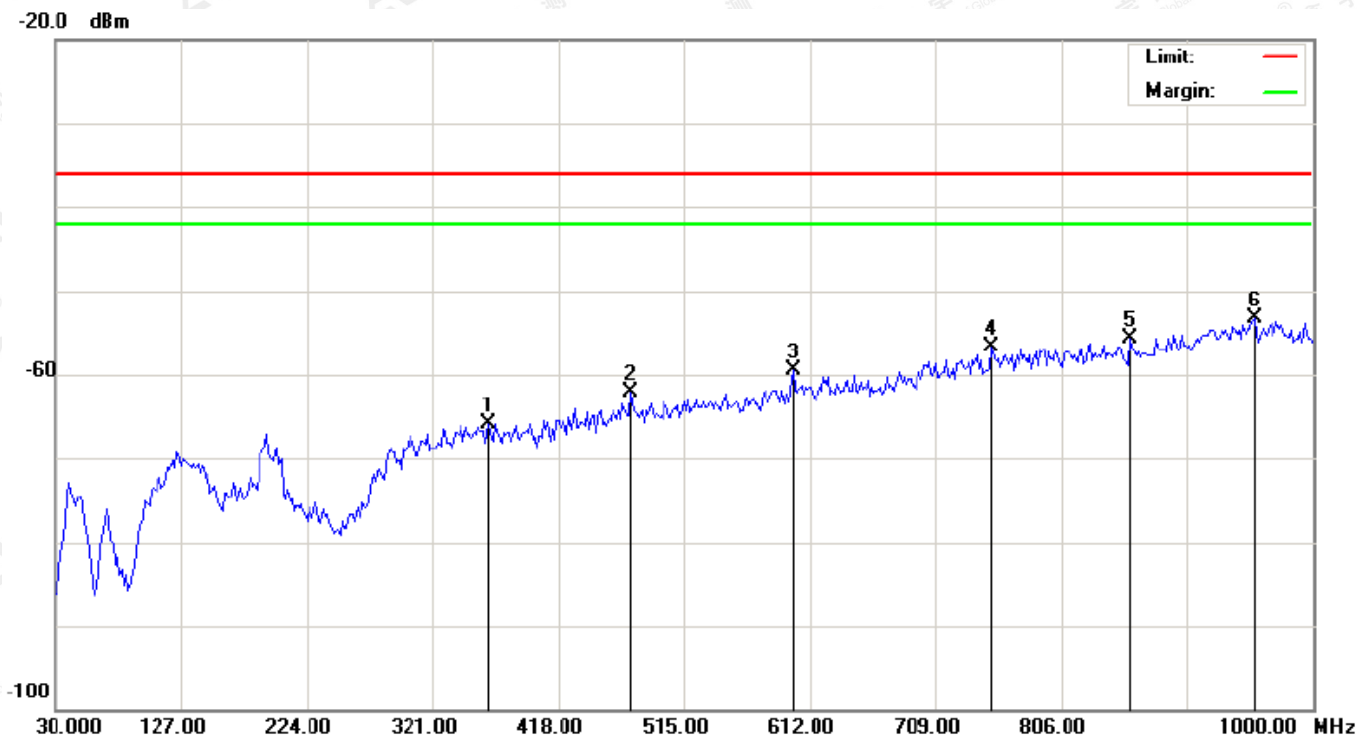
Radiated spurious emissions LTE band 8 Below 1GHZ- H



No.	Mk	Freq. MHz	Reading dBm	Factor dB	Measurement dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		41.3167	-93.61	30.63	-62.98	-36.00	-26.98	peak			
2		162.5667	-101.81	37.08	-64.73	-36.00	-28.73	peak			
3		458.4167	-105.02	42.69	-62.33	-36.00	-26.33	peak			
4		650.8000	-105.78	45.87	-59.91	-36.00	-23.91	peak			
5		823.7833	-104.24	48.36	-55.88	-36.00	-19.88	peak			
6	*	983.8333	-105.00	52.35	-52.65	-36.00	-16.65	peak			

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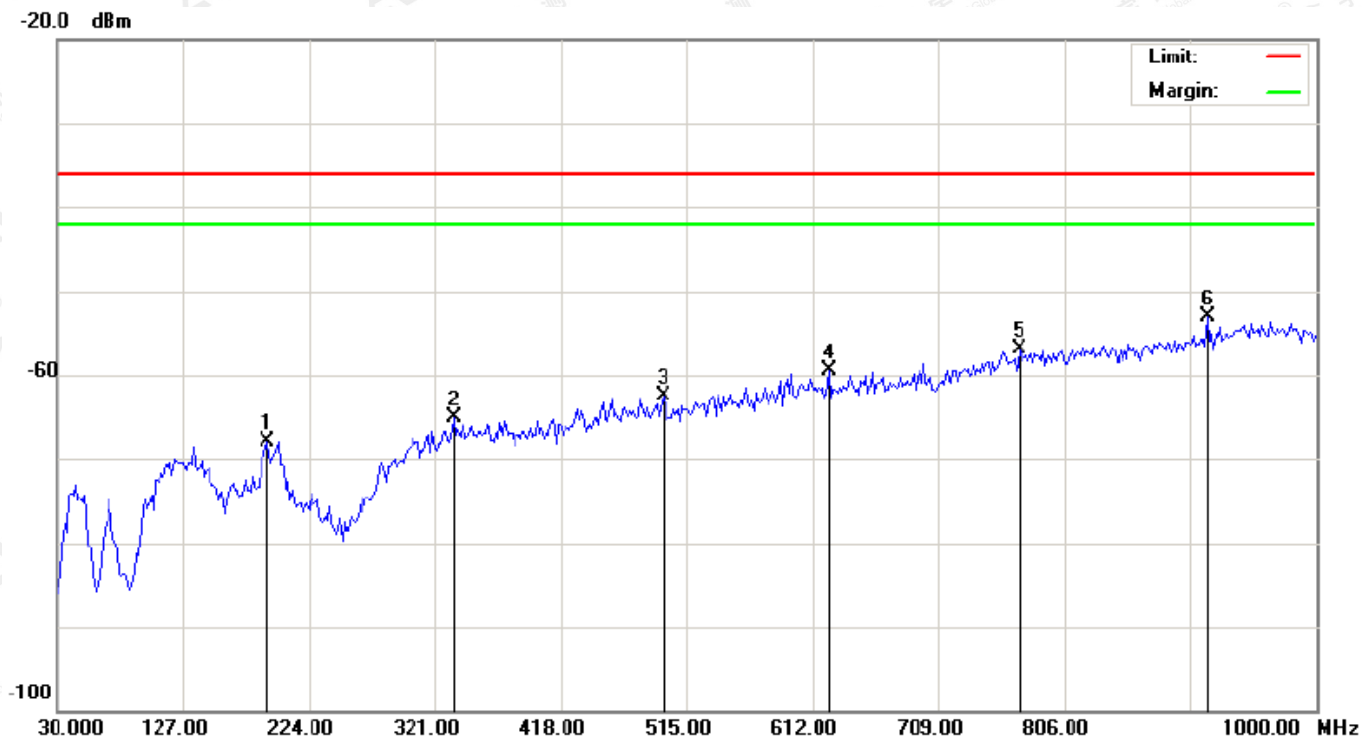
Radiated spurious emissions LTE band 8 Below 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		364.6500	-106.52	40.61	-65.91	-36.00	-29.91	peak			
2		474.5833	-104.90	42.80	-62.10	-36.00	-26.10	peak			
3		599.0667	-104.84	45.34	-59.50	-36.00	-23.50	peak			
4		752.6500	-105.03	48.34	-56.69	-36.00	-20.69	peak			
5		859.3500	-105.33	49.55	-55.78	-36.00	-19.78	peak			
6	*	954.7333	-105.33	51.95	-53.38	-36.00	-17.38	peak			

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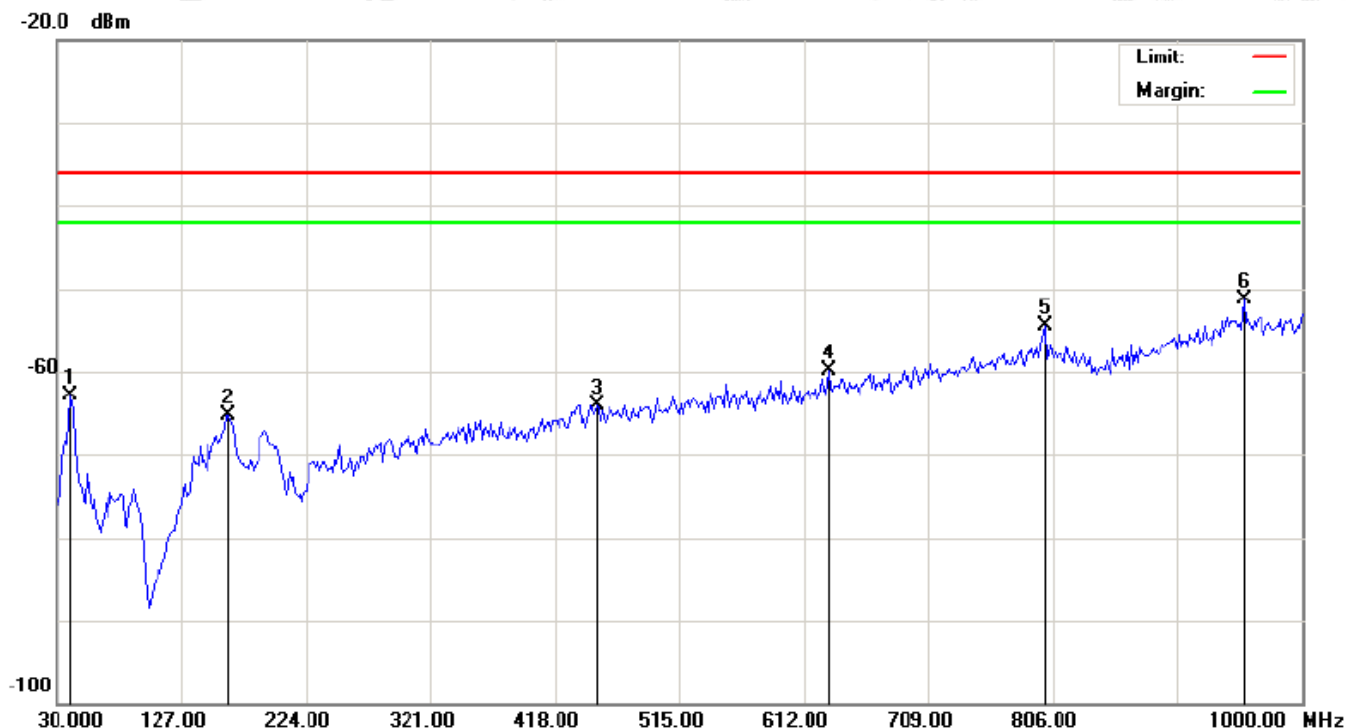
Radiated spurious emissions LTE band 20 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		191.6667	-101.84	34.03	-67.81	-36.00	-31.81	peak			
2		335.5500	-104.55	39.54	-65.01	-36.00	-29.01	peak			
3		497.2167	-105.81	43.30	-62.51	-36.00	-26.51	peak			
4		624.9333	-105.15	45.60	-59.55	-36.00	-23.55	peak			
5		772.0500	-105.64	48.74	-56.90	-36.00	-20.90	peak			
6	*	915.9333	-104.22	51.05	-53.17	-36.00	-17.17	peak			

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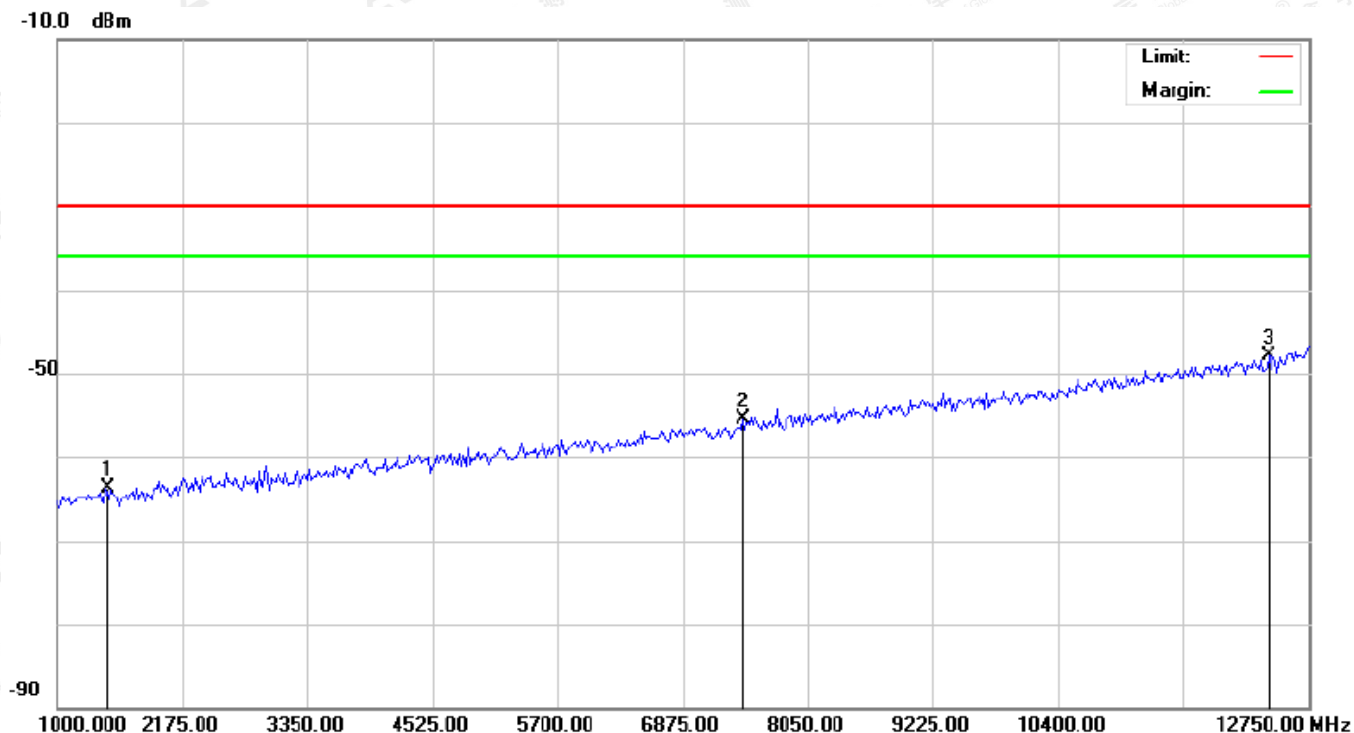
Radiated spurious emissions LTE band 20 Below 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-93.61	30.63	-62.98	-36.00	-26.98	peak			
2		164.1833	-102.27	36.99	-65.28	-36.00	-29.28	peak			
3		450.3333	-106.61	42.59	-64.02	-36.00	-28.02	peak			
4		631.4000	-105.30	45.43	-59.87	-36.00	-23.87	peak			
5		799.5333	-103.87	49.31	-54.56	-36.00	-18.56	peak			
6	*	954.7333	-103.37	52.05	-51.32	-36.00	-15.32	peak			

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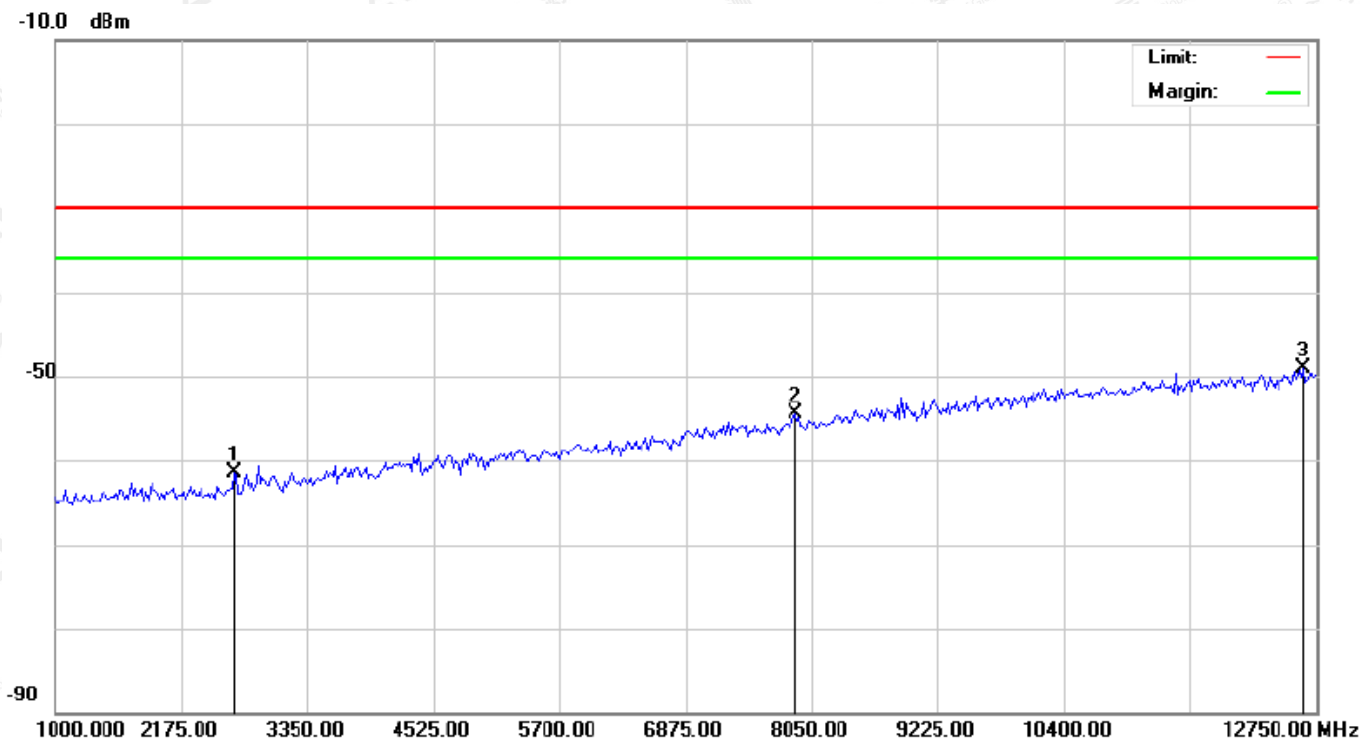
Radiated spurious emissions LTE band 1 Above 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		1450.417	-79.14	15.48	-63.66	-30.00	-33.66	peak			
2		7442.917	-70.84	15.42	-55.42	-30.00	-25.42	peak			
3	*	12377.917	-66.58	18.66	-47.92	-30.00	-17.92	peak			

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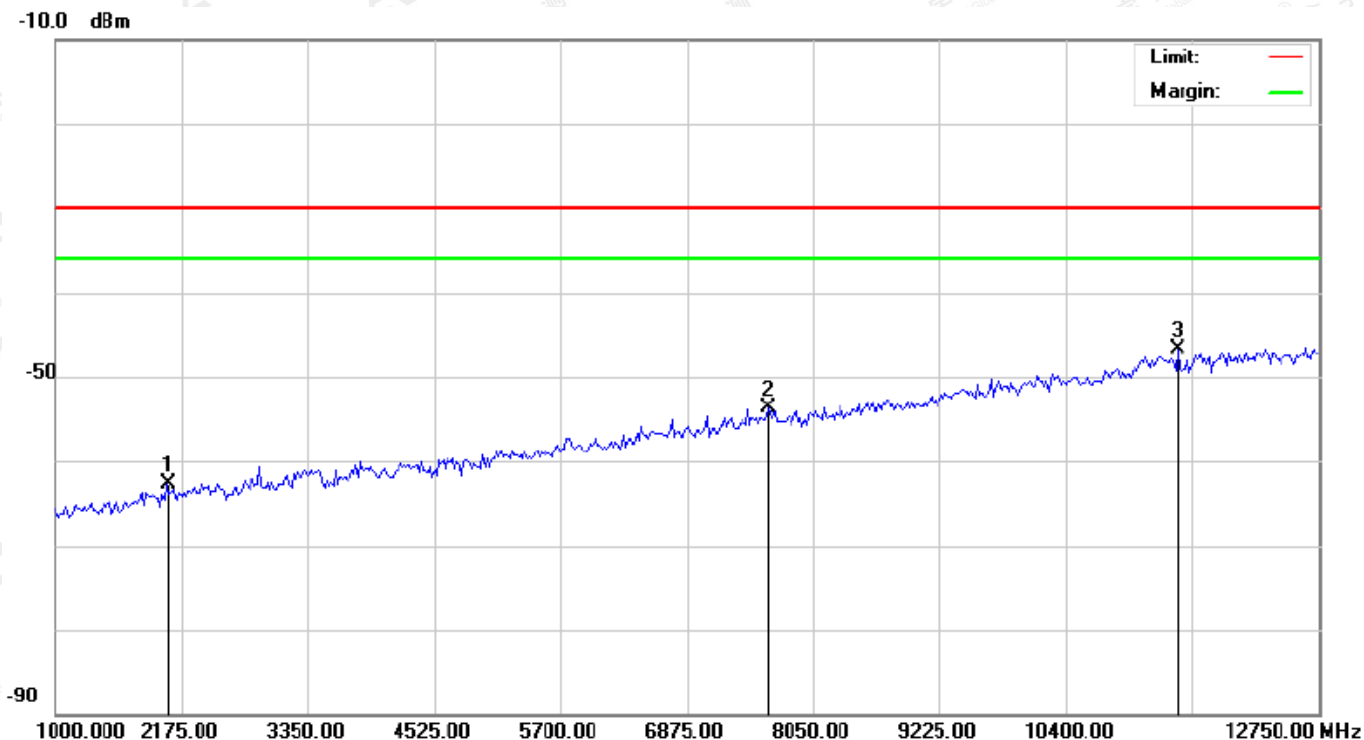
Radiated spurious emissions LTE band 1 Above 1GHZ- V



No.	Mk	Freq. MHz	Reading dBm	Factor dBm	Measurement dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2664.583	-77.44	15.87	-61.57	-30.00	-31.57	peak			
2		7893.333	-69.88	15.30	-54.58	-30.00	-24.58	peak			
3	*	12632.500	-68.14	19.12	-49.02	-30.00	-19.02	peak			

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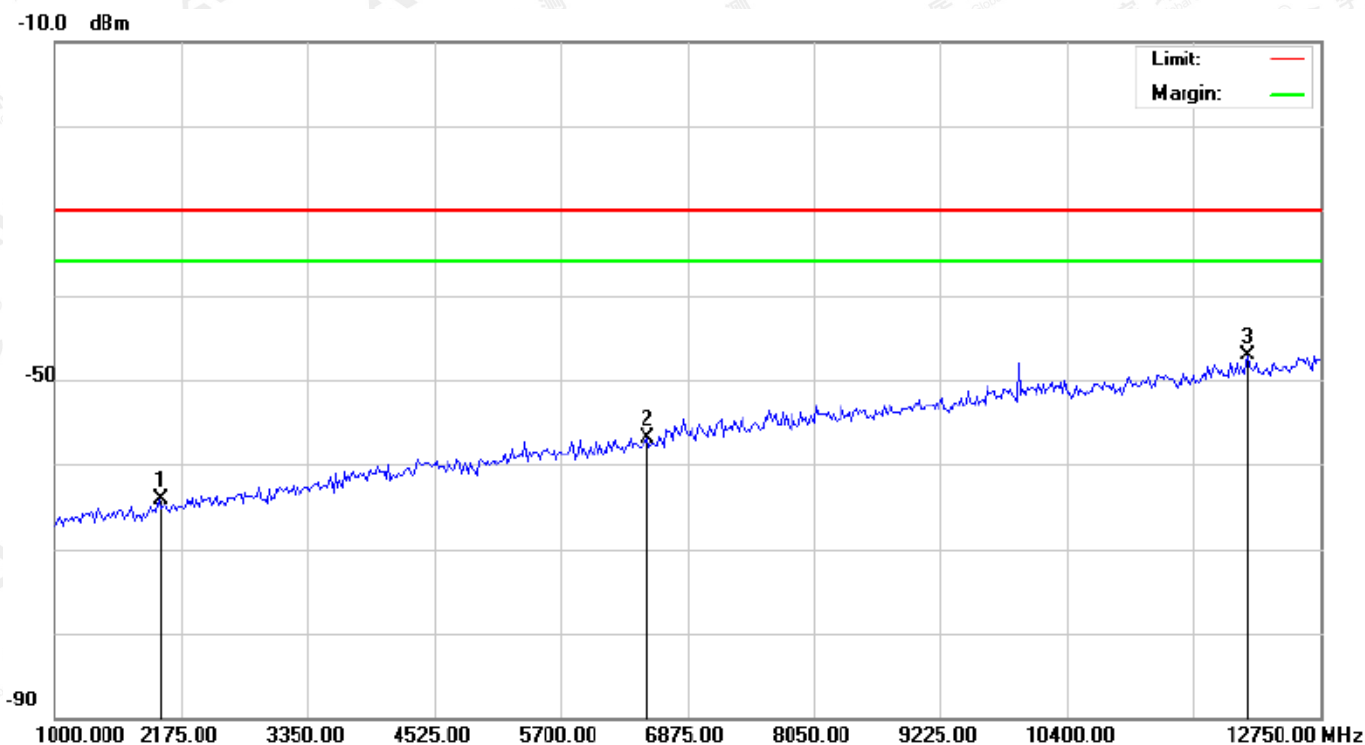
Radiated spurious emissions LTE band 3 Above 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		2037.917	-78.24	15.59	-62.65	-30.00	-32.65	peak			
2		7638.750	-69.09	15.37	-53.72	-30.00	-23.72	peak			
3	*	11437.917	-63.50	16.77	-46.73	-30.00	-16.73	peak			

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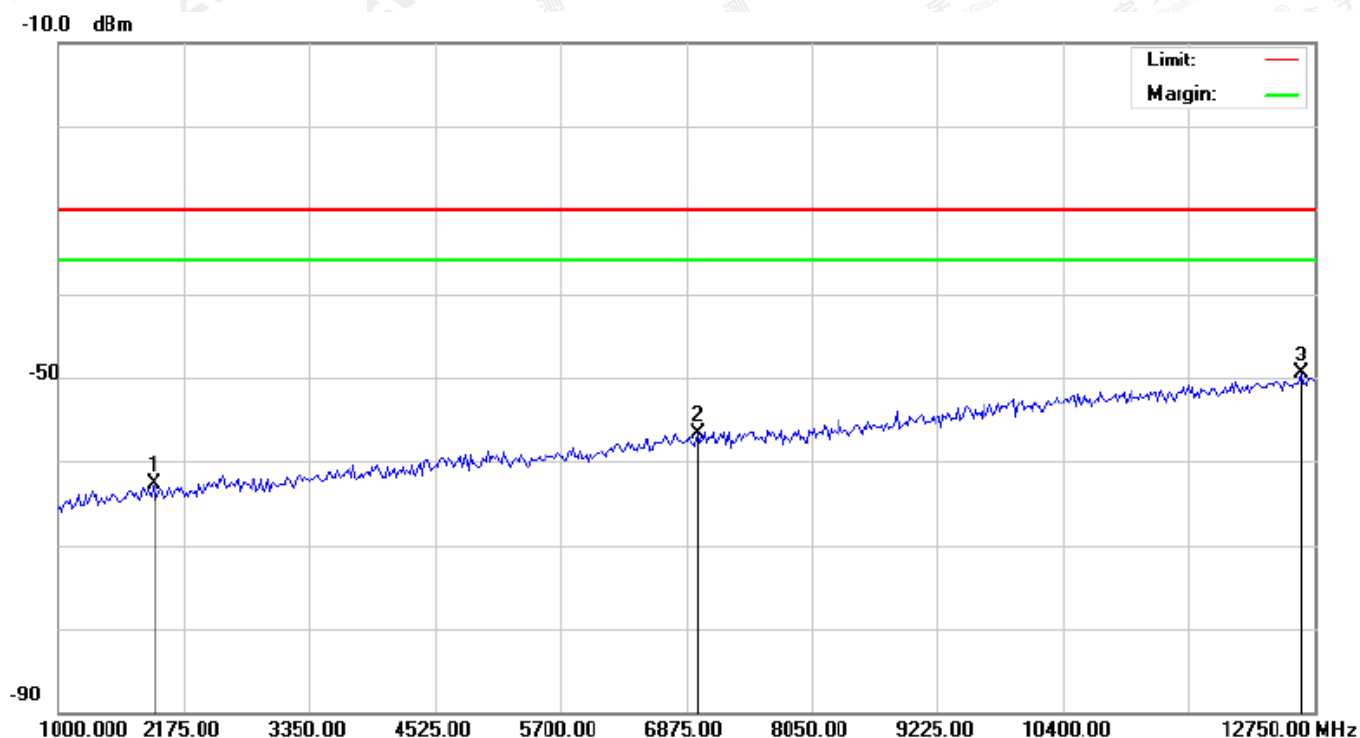
Radiated spurious emissions LTE band 3 Above 1GHZ- V



No.	Mk	Freq. MHz	Reading dBm	Factor dBm	Measurement dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		1979.167	-79.66	15.57	-64.09	-30.00	-34.09	peak			
2		6502.917	-71.21	14.34	-56.87	-30.00	-26.87	peak			
3	*	12084.167	-65.25	18.11	-47.14	-30.00	-17.14	peak			

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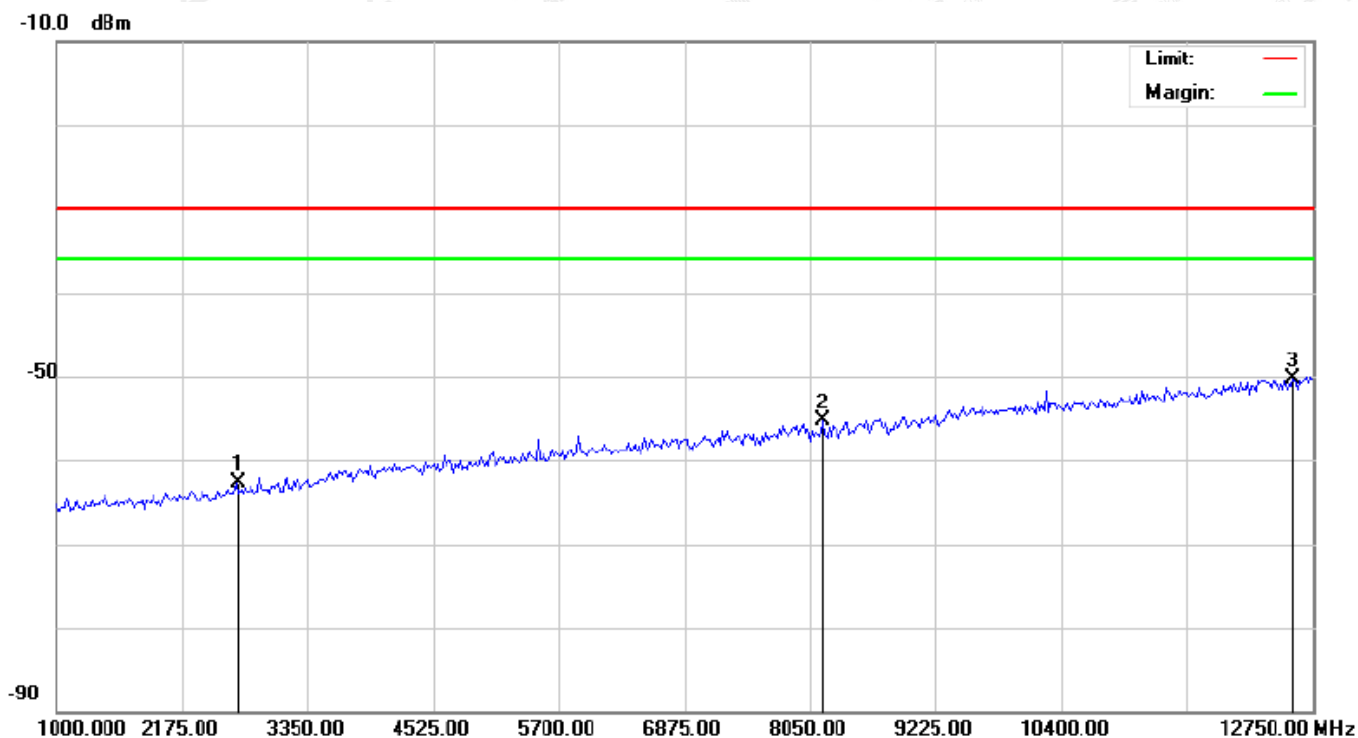
Radiated spurious emissions LTE band 7 Above 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		1900.833	-78.16	15.54	-62.62	-30.00	-32.62	peak			
2		6992.500	-72.22	15.52	-56.70	-30.00	-26.70	peak			
3	*	12632.500	-68.64	19.12	-49.52	-30.00	-19.52	peak			

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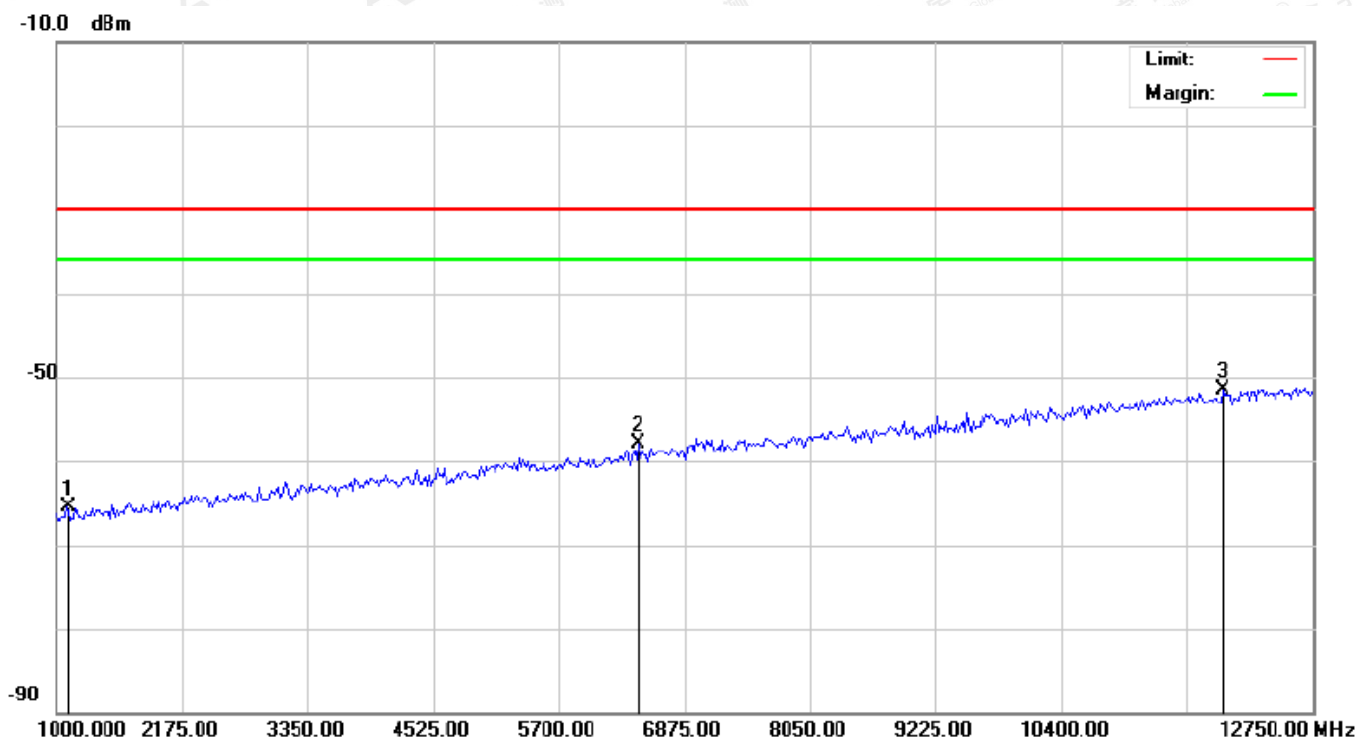
Radiated spurious emissions LTE band 7 Above 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		2684.167	-78.49	15.89	-62.60	-30.00	-32.60	peak			
2		8167.500	-70.51	15.23	-55.28	-30.00	-25.28	peak			
3	*	12573.750	-69.29	19.01	-50.28	-30.00	-20.28	peak			

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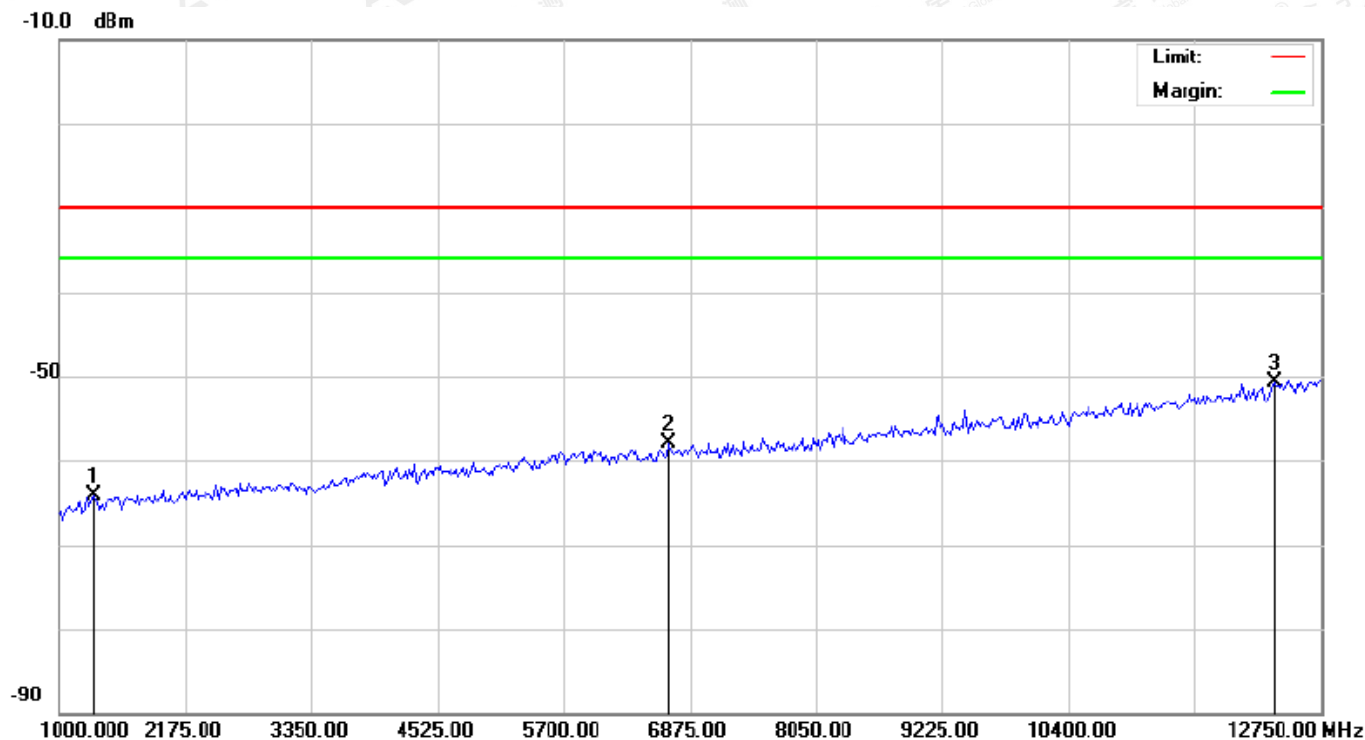
Radiated spurious emissions LTE band 8 Above 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		1097.917	-81.80	16.21	-65.59	-30.00	-35.59	peak			
2		6444.167	-72.32	14.51	-57.81	-30.00	-27.81	peak			
3	*	11907.917	-69.32	17.77	-51.55	-30.00	-21.55	peak			

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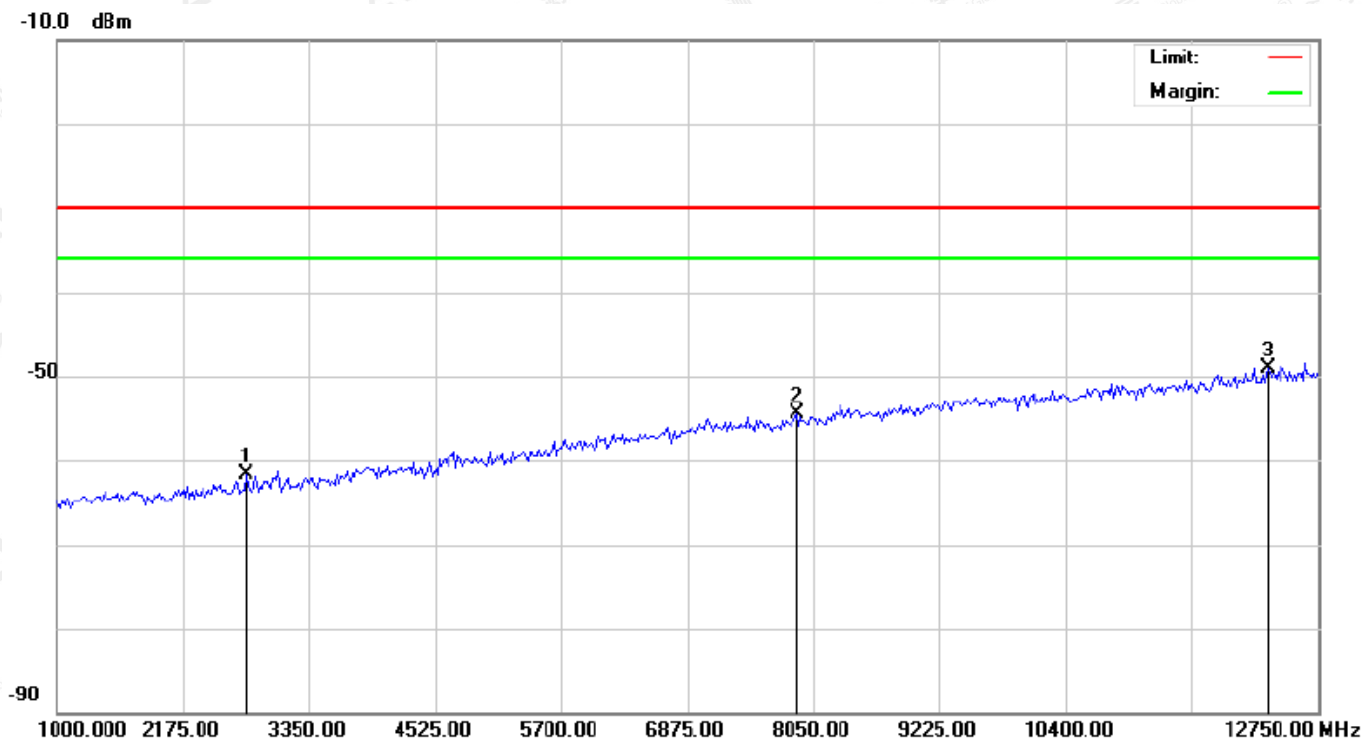
Radiated spurious emissions LTE band 8 Above 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		1313.333	-79.83	15.76	-64.07	-30.00	-34.07	peak			
2		6679.167	-72.68	14.76	-57.92	-30.00	-27.92	peak			
3	*	12319.167	-69.20	18.55	-50.65	-30.00	-20.65	peak			

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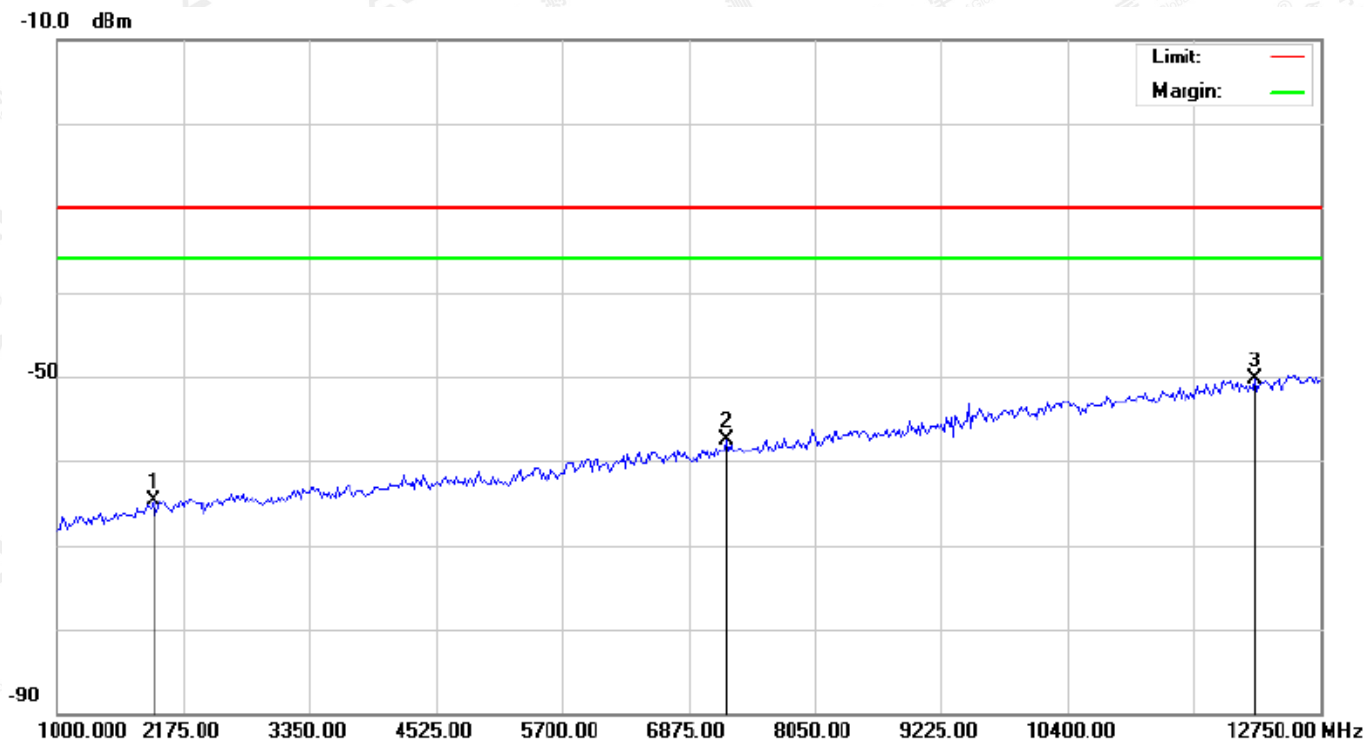
Radiated spurious emissions LTE band 20 Above 1GHz- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		2762.500	-77.76	15.99	-61.77	-30.00	-31.77	peak			
2		7893.333	-69.88	15.30	-54.58	-30.00	-24.58	peak			
3	*	12280.000	-67.48	18.47	-49.01	-30.00	-19.01	peak			

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Radiated spurious emissions LTE band 20 Above 1GHz- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		1900.833	-80.16	15.54	-64.62	-30.00	-34.62	peak			
2		7227.500	-72.95	15.48	-57.47	-30.00	-27.47	peak			
3	*	12142.917	-68.48	18.22	-50.26	-30.00	-20.26	peak			

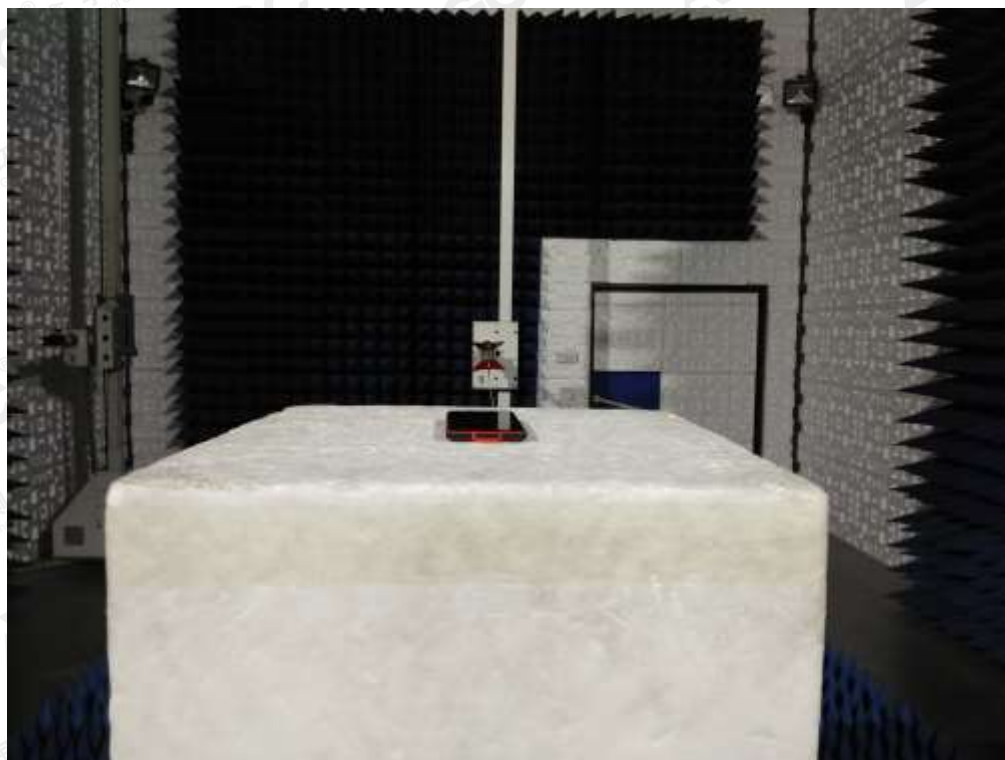
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APPENDIX G: PHOTOGRAPHS OF TEST SETUP

RADIATED SPURIOUS EMISSION TEST SETUP



RADIATED SPURIOUS EMISSION_ABOVE 1G TEST SETUP



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SAMPLE LABEL



----END OF REPORT----

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