



# **RADIO TEST REPORT**

## **ETSI EN 301 908-1 V13.1.1 (2019-11)**

## **ETSI EN 301 908-13 V13.1.1 (2019-11)**

**Product :** Smartphone

**Trade Mark :** CUBOT

**Model Name :** J20

**Family Model :** N/A

**Report No. :** S22090900502008

### **Prepared for**

Shenzhen Huafurui Technology Co., Ltd  
Unit 1401 &1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden),  
Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan  
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### **Prepared by**

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**TEST RESULT CERTIFICATION**

**Applicant's name** ..... : Shenzhen Huafurui Technology Co., Ltd  
**Address** ..... : Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China  
**Manufacturer's Name** ..... : Shenzhen Huafurui Technology Co., Ltd  
**Address** ..... : Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

**Product description**

**Product name** ..... : Smartphone  
**Trademark** ..... : CUBOT  
**Model Name** ..... : J20  
**Family Model** ..... : N/A

**Sample number** ..... S220909005009

**Standards** ..... : ETSI EN 301 908-1 V13.1.1 (2019-11)  
ETSI EN 301 908-13 V13.1.1 (2019-11)

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the article 3.2 of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test** .....

**Date (s) of performance of tests** ..... Sep 14. 2022 ~ Oct 21. 2022

**Date of Issue** ..... Oct 24. 2022

**Test Result** ..... **Pass**

**Testing Engineer** :



(Allen Liu)

**Authorized Signatory** :



(Alex Li)

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## Revision History

[illegible]

## 1.SUMMARY OF TEST RESULTS

### 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 301908-13	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	3GPP TS 36.521-1	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance Testing
4	3GPP TS 36.521-2	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)

## 1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.

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FCC Registered No.: 463705 IC Registered No.:9270A-1

CNAS Registration No.:L5516

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

## 2.GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone
Trade Mark	CUBOT
Model Name	J20
Family Model:	N/A
Model Difference:	N/A
Frequency Bands:	E-UTRA FDD I, III, VII, VIII, XX
Frequency Bands:	<p>FDD Band I: Uplink: 1920 MHz to 1980MHz Downlink: 2110 MHz to 2170 MHz</p> <p>FDD Band III: Uplink:1710 MHz to 1785 MHz Downlink: 1805 MHz to 1880 MHz</p> <p>FDD Band VII: Uplink: 2500 MHz to 2570 MHz Downlink: 2620 MHz to 2690 MHz</p> <p>FDD Band VIII: Uplink: 880MHz to 915 MHz Downlink: 925 MHz to 960 MHz</p> <p>FDD Band XX: Uplink: 832 MHz to 862 MHz Downlink: 791 MHz to 821 MHz</p>
Power Class:	E-UTRA :3
SIM CARD :	SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.
Modulation Mode:	QPSK, 16QAM
Adapter	Model: TPA-97050100VU Input: 100-240V~50/60Hz, 0.15A Output: 5.0V---1.0A 5.0W
Battery	DC 3.8V, 2350mAh
Rating	DC 3.8V from battery or DC 5V from Adapter.
Antenna:	PIFA Antenna
Antenna Gain:	-1dBi
Hardware Version	G2241E-MH-V1.1
Software Version	CUBOT_J20_C041C_V01_20221026



## 2.2 LIST OF TEST EQUIPMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2022.04.06	2023.04.05	1 year
2	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	Spectrum Analyzer	Agilent	N9020A	MY46471732	2022.04.06	2023.04.05	1 year
6	Horn Antenna	EM	EM-AH-20180	2011071402	2022.03.31	2023.03.30	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.04.06	2023.04.05	1 year
8	Amplifier	EMC	EMC051835S E	980246	2022.06.17	2023.06.16	1 year
9	Loop Antenna	ARA	PLA-2030/B	1029	2022.04.06	2023.04.05	1 year
10	Temperature & Humidity Chamber	GIANT FORCE	GTH-056P	GF-94454-1	2022.06.16	2023.06.15	1 year
11	LTE Wireless Communications Test Set	R&S	CMW500	1100.008.02	2022.06.17	2023.06.16	1 year
12	Power Splitter	Mini-Circuits	ZN2PD-63-S+	SF025101428	2020.04..07	2023.04.06	3 year
13	Wireless Communication Test	Anritsu	MT8821C	6262192315	2021.11.04	2022.11.03	1 year
14	Power Meter	DARE	RPR3006W	15I00041SNO8 4	2022.06.16	2023.06.15	1 year
15	ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2022.04.06	2023.04.05	1 year
16	Spectrum Analyzer	R&S	FSV40	101417	2022.04.06	2023.04.05	1 year



## 2.3 TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT):	15 ... 35 °C		
Relative Humidity:	30 ... 75 %		
Air Pressure:	980 ... 1020 hPa		
Details of Power Supply:	DC 3.8V		
Extreme Temperature:	Low Temperature (LT)	=	-10°C
	High Temperature (HT)	=	40°C
Extreme Voltage of the EUT (Declared by manufacturer):	Normal Voltage (NV)	=	DC 3.8V
	Low Voltage (LV)	=	DC 3.4V
	High Voltage (HV)	=	DC 4.2V

Note: The High Voltage DC 4.2V and Low Voltage DC 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage. The High temperature and Low temperature was declared by manufacturer.

## 2.4 TEST MODE

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS36.521-1 V11.4.0 specification. The EUT supports power Class 3. Power control set to All bits up. A summary of these settings are illustrated below:

Test Mode	Band Width	Modulation Mode	Test Channel
LTE FDD Band I mode	5MHz	QPSK/ 16QAM	Ch 18025
			Ch 18300
			Ch 18575
	10MHz	QPSK/ 16QAM	Ch 18050
			Ch 18300
			Ch 18550
	20MHz	QPSK/ 16QAM	Ch 18100
			Ch 18300
			Ch 18500
LTE FDD Band III mode	1.4MHz	QPSK/ 16QAM	Ch 19207
			Ch 19575
			Ch 19943
	5MHz	QPSK/ 16QAM	Ch 19225
			Ch 19575
			Ch 19925
	10MHz	QPSK/ 16QAM	Ch 19250
			Ch 19575
			Ch 19900
	20MHz	QPSK/ 16QAM	Ch 19300
			Ch 19575
			Ch 19825
LTE FDD Band VII mode	5MHz	QPSK/ 16QAM	Ch 20775
			Ch 21100
			Ch 21425
	10MHz	QPSK/ 16QAM	Ch 20800
			Ch 21100
			Ch 21400
	20MHz	QPSK/ 16QAM	Ch 20850
			Ch 21100
			Ch 21350
LTE FDD Band VIII mode	1.4MHz	QPSK/ 16QAM	Ch 21457
			Ch 21625
			Ch 21793
	5MHz	QPSK/ 16QAM	Ch 21475
			Ch 21625
			Ch 21775
	10MHz	QPSK/ 16QAM	Ch 21500
			Ch 21625
			Ch 21750

LTE FDD Band XX mode	5MHz	QPSK/ 16QAM	Ch 24175
			Ch 24300
			Ch 24425
	10MHz	QPSK/ 16QAM	Ch 24200
			Ch 24300
			Ch 24400
	20MHz	QPSK/ 16QAM	Ch 24250
			Ch 24300
			Ch 24350

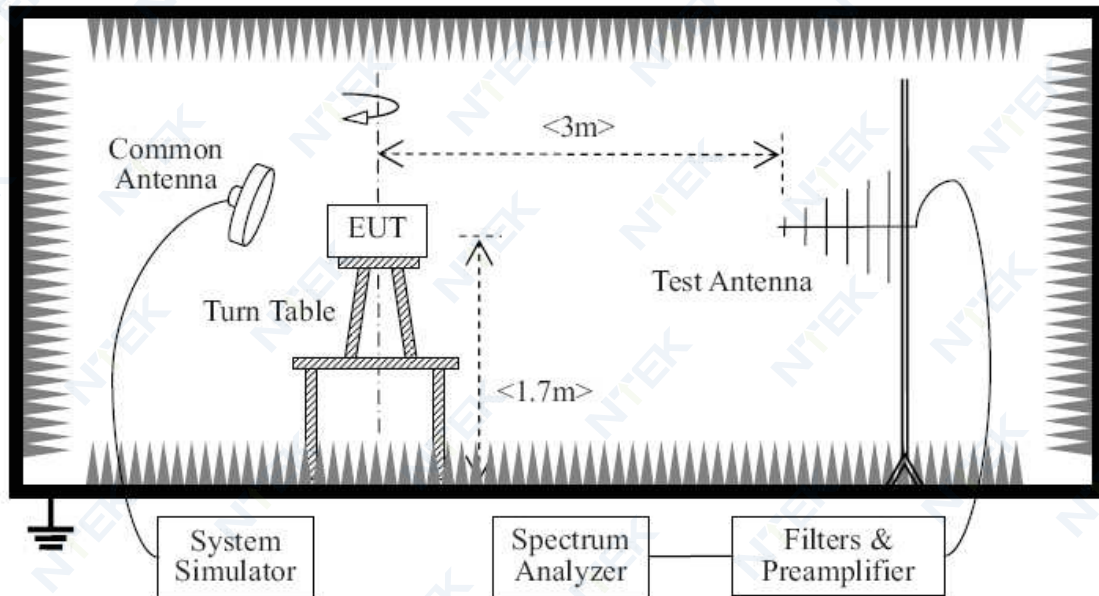
Table 2

Test standard	test items	FDD Band I	FDD Band III	FDD Band VII	FDD Band VIII
		test Band Width			
ETSI EN 301908-1 4.2.2	Radiated emission (UE)	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz, 5MHz, 10 MHz
ETSI EN 301908-13 4.2.2	Transmitter Maximum Output Power	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz, 5MHz, 10 MHz
ETSI EN 301908-13 4.2.3	Transmitter Spectrum Emission Mask	5MHz,10MHz, 20 MHz	1.4MHz, 5MHz,10MHz, 20 MHz	5MHz,10MHz, ,20 MHz	1.4MHz,5MHz, 10 MHz
ETSI EN 301908-13 4.2.4	Transmitter Spurious Emissions	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz, 5MHz,10 MHz
ETSI EN 301908-13 4.2.5	Transmitter Minimum Output Power	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz,5MHz, 0 MHz
ETSI EN 301908-13 4.2.6	Receiver Adjacent Channel Selectivity (ACS)	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz, 5MHz,10 MHz
ETSI EN 301908-13 4.2.7	Receiver Blocking Characteristics	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz, 5MHz,10 MHz
ETSI EN 301908-13 4.2.8	Receiver Spurious Response	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz, 5MHz,10 MHz
ETSI EN 301908-13 4.2.9	Receiver Intermodulation Characteristics	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz, 5MHz,10 MHz
ETSI EN 301908-13 4.2.10	Receiver Spurious Emissions	20 MHz	20 MHz	20 MHz	10 MHz
ETSI EN 301908-13 4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	5MHz,10MHz, ,20 MHz	1.4MHz, 5MHz,10MHz, 20 MHz	5MHz,10MHz, ,20 MHz	1.4MHz,5MHz, 10 MHz
ETSI EN 301908-13 4.2.12	Receiver Reference Sensitivity Level	5MHz,20 MHz	1.4MHz, 5MHz, 20 MHz	5MHz,20 MHz	1.4MHz,10 MHz

Test standard	test items	FDD Band XX
		test Band Width
ETSI EN 301908-1 4.2.2	Radiated emission (UE)	5MHz,20 MHz
ETSI EN 301908-13 4.2.2	Transmitter Maximum Output Power	5MHz,20 MHz
ETSI EN 301908-13 4.2.3	Transmitter Spectrum Emission Mask	5MHz,10MHz, ,20 MHz
ETSI EN 301908-13 4.2.4	Transmitter Spurious Emissions	5MHz,20 MHz
ETSI EN 301908-13 4.2.5	Transmitter Minimum Output Power	5MHz,20 MHz
ETSI EN 301908-13 4.2.6	Receiver Adjacent Channel Selectivity (ACS)	5MHz,20 MHz
ETSI EN 301908-13 4.2.7	Receiver Blocking Characteristics	5MHz,20 MHz
ETSI EN 301908-13 4.2.8	Receiver Spurious Response	5MHz,20 MHz
ETSI EN 301908-13 4.2.9	Receiver Intermodulation Characteristics	5MHz,20 MHz
ETSI EN 301908-13 4.2.10	Receiver Spurious Emissions	20 MHz
ETSI EN 301908-13 4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	5MHz,10MHz, ,20 MHz
ETSI EN 301908-13 4.2.12	Receiver Reference Sensitivity Level	5MHz,20 MHz

## 2.5 TEST SETUP

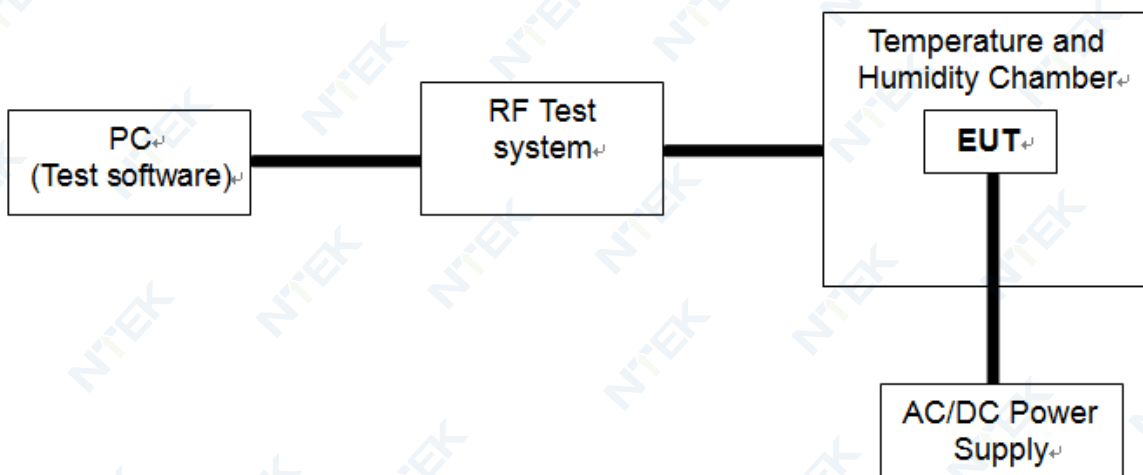
### 1. Radiated Spurious Emission Test Setup



The EUT, which is powered by the Battery charged with the AC Adapter, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. LTE FDD band Power Control Level = 3), and only the test result of the maximum output power was recorded.

### 2. Conducted Test



### 3. SUMMARY OF THE REPORT

#### 3.1 TERMS IN THE COLUMN “VERDICT” FOR THE TEST RESULTS LIST OF THIS SECTION:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
Decl.	“Declaration”: NTEK has received documents from the applicant and/or manufacturer which show conformity to the applied standards for this test case.
N/A	Test case not applicable for the EUT, please see the column “Note” for detailed

**Table 1** EN Requirements Table (Ref. ETSI EN 301 908-1 Annex D)

Testcase in ETSI EN 301908-1	Description	Condition	Test Band	Sample	Result	Test Data
4.2.2	Radiated emission (UE)	NTC	FDD Band I	A01	PASS	Ref. ETSI EN 301 908-1 Annex D)
			FDD Band III			
			FDD Band VII			
			FDD Band VIII			
			FDD Band XX			



**Table 2** EN Requirements Table

The test data please refer to the APPENDIX A &amp; APPENDIX B &amp; APPENDIX C

Testcase in ETSI EN 301908-13	Testcase in 3GPP TS 36.521	Description	Condition	Test Band	Sample	Result	Test Data
4.2.2	6.2.2	Transmitter Maximum Output Power	NT / NV	FDD Band I	A01	PASS	Appendix A - LTE - Normal
			LT / LV	FDD Band III	A01	PASS	Appendix B - LTE - Extreme
			LT / HV	FDD Band VII	A01	PASS	Appendix B - LTE - Extreme
			HT / LV	FDD Band VIII	A01	PASS	Appendix B - LTE - Extreme
			HT / HV	FDD Band XX	A01	PASS	Appendix B - LTE - Extreme
4.2.5	6.3.2	Transmitter Minimum Output Power	NT / NV	FDD Band I	A01	PASS	Appendix A - LTE - Normal
			LT / LV	FDD Band III	A01	PASS	Appendix B - LTE - Extreme
			LT / HV	FDD Band VII	A01	PASS	Appendix B - LTE - Extreme
			HT / LV	FDD Band VIII	A01	PASS	Appendix B - LTE - Extreme
			HT / HV	FDD Band XX	A01	PASS	Appendix B - LTE - Extreme
4.2.3	6.6.2.1	Transmitter Spectrum Emission Mask	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix A - LTE - Normal
4.2.4	6.6.3.1	Transmitter Spurious Emissions	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix A - LTE - Normal
4.2.6	7.5	Receiver Adjacent Channel Selectivity (ACS)	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix A - LTE - Normal

Testcase in ETSI EN 301908-13	Testcase in 3GPP TS 36.521	Description	Condition	Test Band			Test Data
					Sample	Result	
4.2.11	6.6.2.3	Transmitter Adjacent Channel Leakage Power Ratio	NT / NV	FDD Band I	A01	PASS	Appendix A - LTE - Normal
			LT / LV	FDD Band III	A01	PASS	Appendix B - LTE - Extreme
			LT / HV	FDD Band VII	A01	PASS	Appendix B - LTE - Extreme
			HT / LV	FDD Band VIII	A01	PASS	Appendix B - LTE - Extreme
			HT / HV	FDD Band XX	A01	PASS	Appendix B - LTE - Extreme
4.2.7	7.6.1	Receiver Blocking Characteristics (In band)	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix A - LTE - Normal
4.2.7	7.6.2	Receiver Blocking Characteristics (Out band)	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix C - LTE - Blocking
4.2.7	7.6.3	Receiver Blocking Characteristics (Narrow band)	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix C - LTE - Blocking
4.2.8	7.7	Receiver Spurious Response	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	N/A	N/A <sup>(Note 1)</sup>
4.2.9	7.8	Receiver Intermodulation Characteristics	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix A - LTE - Normal
4.2.10	7.9	Receiver Spurious Emissions	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix A - LTE - Normal

4.2.12	7.3	Receiver Reference Sensitivity Level	NTC	FDD Band I FDD Band III FDD Band VII FDD Band VIII FDD Band XX	A01	PASS	Appendix A - LTE - Normal
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Note 1: Receiver Spurious Response is just for the out-of-band blocking limit is not met.

## **APPENDIX D——TEST DATA FOR SPURIOUS EMISSIONS**

**D.1. RADIATED SPURIOUS EMISSIONS.**

Band 1 CH L 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
36.89	-65.13	3.91	-61.22	-36	-25.22	PASS
170.25	-74.48	6.95	-67.53	-36	-31.53	PASS
504.77	-69.55	9.27	-60.28	-36	-24.28	PASS
655.66	-63.14	9.75	-53.39	-36	-17.39	PASS
Remark:						
1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH L 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1520.33	-69.37	18.05	-51.32	-30	-21.32	PASS
2158.02	-59.24	15.75	-43.49	-30	-13.49	PASS
3795.23	-57.64	13.06	-44.58	-30	-14.58	PASS
6351.08	-52.26	12.52	-39.74	-30	-9.74	PASS
Remark:						
1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH L 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
42.33	-63.76	3.91	-59.85	-36	-23.85	PASS
97.81	-73.9	6.95	-66.95	-36	-30.95	PASS
340.28	-74.27	9.27	-65.00	-36	-29.00	PASS
649.54	-74.6	9.75	-64.85	-36	-28.85	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH L 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1395.02	-63.82	18.05	-45.77	-30	-15.77	PASS
2733.29	-54.1	15.75	-38.35	-30	-8.35	PASS
3945.93	-49.62	13.06	-36.56	-30	-6.56	PASS
6093.06	-62.67	12.52	-50.15	-30	-20.15	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH M 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
40.39	-65.61	3.91	-61.70	-36	-25.70	PASS
145.18	-67.46	6.95	-60.51	-36	-24.51	PASS
321.38	-74.26	9.27	-64.99	-36	-28.99	PASS
634.02	-75.25	9.75	-65.50	-36	-29.50	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH M 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1306.99	-58.24	18.05	-40.19	-30	-10.19	PASS
2349.12	-65.27	15.75	-49.52	-30	-19.52	PASS
3622.87	-49.12	13.06	-36.06	-30	-6.06	PASS
6535.07	-56.4	12.52	-43.88	-30	-13.88	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						



Band 1 CH M 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
36.40	-75.4	3.91	-71.49	-36	-35.49	PASS
178.23	-74.49	6.95	-67.54	-36	-31.54	PASS
518.73	-65.44	9.27	-56.17	-36	-20.17	PASS
716.67	-63.39	9.75	-53.64	-36	-17.64	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH M 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1675.86	-65.77	18.05	-47.72	-30	-17.72	PASS
2661.24	-67.29	15.75	-51.54	-30	-21.54	PASS
3008.65	-65.18	13.06	-52.12	-30	-22.12	PASS
7866.13	-62.94	12.52	-50.42	-30	-20.42	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH H 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
73.22	-64.84	3.91	-60.93	-36	-24.93	PASS
121.41	-66.18	6.95	-59.23	-36	-23.23	PASS
222.04	-71.14	9.27	-61.87	-36	-25.87	PASS
784.05	-59.74	9.75	-49.99	-36	-13.99	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH H 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1993.76	-68.72	18.05	-50.67	-30	-20.67	PASS
2293.40	-53.58	15.75	-37.83	-30	-7.83	PASS
3015.56	-54.35	13.06	-41.29	-30	-11.29	PASS
11743.51	-64.56	12.52	-52.04	-30	-22.04	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH H 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
78.27	-75.69	3.91	-71.78	-36	-35.78	PASS
121.50	-60.8	6.95	-53.85	-36	-17.85	PASS
220.04	-65.56	9.27	-56.29	-36	-20.29	PASS
790.16	-63.33	9.75	-53.58	-36	-17.58	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH H 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1156.58	-68.3	18.05	-50.25	-30	-20.25	PASS
2315.32	-66.63	15.75	-50.88	-30	-20.88	PASS
3781.59	-58.98	13.06	-45.92	-30	-15.92	PASS
11236.05	-63.29	12.52	-50.77	-30	-20.77	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH L 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
65.96	-70.99	3.91	-67.08	-36	-31.08	PASS
135.83	-71.73	6.95	-64.78	-36	-28.78	PASS
505.89	-67	9.27	-57.73	-36	-21.73	PASS
619.91	-75.2	9.75	-65.45	-36	-29.45	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH L 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1125.11	-57.67	18.05	-39.62	-30	-9.62	PASS
2074.78	-49.88	15.75	-34.13	-30	-4.13	PASS
3642.65	-56.85	13.06	-43.79	-30	-13.79	PASS
7261.54	-62.09	12.52	-49.57	-30	-19.57	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH L 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
67.16	-65.68	3.91	-61.77	-36	-25.77	PASS
200.57	-60.63	6.95	-53.68	-36	-17.68	PASS
516.11	-66.69	9.27	-57.42	-36	-21.42	PASS
723.66	-70.61	9.75	-60.86	-36	-24.86	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH L 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1813.34	-52.88	18.05	-34.83	-30	-4.83	PASS
2289.85	-63.28	15.75	-47.53	-30	-17.53	PASS
3239.56	-61.56	13.06	-48.50	-30	-18.50	PASS
11906.06	-68.91	12.52	-56.39	-30	-26.39	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH M 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
86.88	-60.30	2.35	-57.95	-36	-21.95	PASS
175.57	-58.10	1.38	-56.72	-36	-20.72	PASS
280.24	-50.21	5.45	-44.76	-36	-8.76	PASS
859.87	-54.60	1.45	-53.15	-36	-17.15	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH M 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1813.09	-66.39	14.81	-51.58	-30	-21.58	PASS
2046.33	-67.08	15.91	-51.17	-30	-21.17	PASS
3710.07	-57.15	14.93	-42.22	-30	-12.22	PASS
6653.06	-63.83	16.55	-47.28	-30	-17.28	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH M 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
71.20	-59.77	5.93	-53.84	-36	-17.84	PASS
168.95	-57.83	9.25	-48.58	-36	-12.58	PASS
328.80	-60.79	4.35	-56.44	-36	-20.44	PASS
631.00	-55.99	8.47	-47.52	-36	-11.52	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH M 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1148.71	-57.99	18.25	-39.74	-30	-9.74	PASS
2612.55	-64.51	18.87	-45.64	-30	-15.64	PASS
3730.76	-51.83	13.86	-37.97	-30	-7.97	PASS
6699.35	-67.07	10.24	-56.83	-30	-26.83	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						



Band 1 CH H 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
34.77	-51.91	6.38	-45.53	-36	-9.53	PASS
192.45	-58.45	8.65	-49.80	-36	-13.80	PASS
367.52	-68.87	1.51	-67.36	-36	-31.36	PASS
641.59	-60.51	9.03	-51.48	-36	-15.48	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH H 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1446.68	-51.48	11.72	-39.76	-30	-9.76	PASS
2617.16	-65.54	15.95	-49.59	-30	-19.59	PASS
4000.66	-66.71	12.25	-54.46	-30	-24.46	PASS
8128.10	-58.20	15.98	-42.22	-30	-12.22	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH H 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
48.53	-50.34	1.69	-48.65	-36	-12.65	PASS
140.90	-60.87	3.80	-57.07	-36	-21.07	PASS
494.29	-49.10	3.93	-45.17	-36	-9.17	PASS
701.65	-60.59	8.89	-51.70	-36	-15.70	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 1 CH H 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1419.51	-67.67	15.40	-52.27	-30	-22.27	PASS
2604.51	-58.86	14.23	-44.63	-30	-14.63	PASS
3034.32	-58.73	18.65	-40.08	-30	-10.08	PASS
6513.64	-57.68	16.16	-41.52	-30	-11.52	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

### Band 3 CH L 1.4M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
53.61	-75.08	3.91	-71.17	-36	-35.17	PASS
91.80	-64.52	6.95	-57.57	-36	-21.57	PASS
398.72	-71.74	9.27	-62.47	-36	-26.47	PASS
656.28	-68.02	9.75	-58.27	-36	-22.27	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH L 1.4M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1672.91	-53.02	18.05	-34.97	-30	-4.97	PASS
2091.80	-54.75	15.75	-39.00	-30	-9.00	PASS
3852.73	-61.42	13.06	-48.36	-30	-18.36	PASS
5111.40	-69.23	12.52	-56.71	-30	-26.71	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 3 CH L 1.4M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
48.66	-72.93	3.91	-69.02	-36	-33.02	PASS
146.80	-64.71	6.95	-57.76	-36	-21.76	PASS
238.21	-76.56	9.27	-67.29	-36	-31.29	PASS
711.10	-71.56	9.75	-61.81	-36	-25.81	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 3 CH L 1.4M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1649.21	-52.93	18.05	-34.88	-30	-4.88	PASS
2875.21	-57.83	15.75	-42.08	-30	-12.08	PASS
3269.60	-67.26	13.06	-54.20	-30	-24.20	PASS
8414.34	-67.12	12.52	-54.60	-30	-24.60	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH M 1.4M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
43.09	-68.07	3.91	-64.16	-36	-28.16	PASS
180.38	-59.45	6.95	-52.50	-36	-16.50	PASS
285.96	-72.58	9.27	-63.31	-36	-27.31	PASS
834.82	-68.77	9.75	-59.02	-36	-23.02	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH M 1.4M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1673.28	-51.44	18.05	-33.39	-30	-3.39	PASS
2153.26	-61.4	15.75	-45.65	-30	-15.65	PASS
3001.61	-61.51	13.06	-48.45	-30	-18.45	PASS
7472.21	-60.14	12.52	-47.62	-30	-17.62	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH M 1.4M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
69.80	-74.37	3.91	-70.46	-36	-34.46	PASS
159.22	-62.14	6.95	-55.19	-36	-19.19	PASS
423.28	-62.93	9.27	-53.66	-36	-17.66	PASS
678.06	-63.65	9.75	-53.90	-36	-17.90	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH M 1.4M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1873.91	-59.85	18.05	-41.80	-30	-11.80	PASS
2403.67	-63.98	15.75	-48.23	-30	-18.23	PASS
3163.46	-49.34	13.06	-36.28	-30	-6.28	PASS
10342.62	-66.16	12.52	-53.64	-30	-23.64	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH H 1.4M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
68.40	-74.00	3.91	-70.09	-36	-34.09	PASS
143.62	-71.60	6.95	-64.65	-36	-28.65	PASS
577.03	-69.25	9.27	-59.98	-36	-23.98	PASS
614.96	-74.35	9.75	-64.60	-36	-28.60	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH H 1.4M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1063.20	-59.89	18.05	-41.84	-30	-11.84	PASS
2879.58	-64.72	15.75	-48.97	-30	-18.97	PASS
3257.76	-57.87	13.06	-44.81	-30	-14.81	PASS
8514.07	-58.73	12.52	-46.21	-30	-16.21	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



## Band 3 CH H 1.4M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
44.13	-63.21	3.91	-59.30	-36	-23.30	PASS
104.09	-74.78	6.95	-67.83	-36	-31.83	PASS
597.90	-68.62	9.27	-59.35	-36	-23.35	PASS
692.29	-66.54	9.75	-56.79	-36	-20.79	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 3 CH H 1.4M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1978.70	-67.09	18.05	-49.04	-30	-19.04	PASS
2913.91	-49.24	15.75	-33.49	-30	-3.49	PASS
3247.90	-52.06	13.06	-39.00	-30	-9.00	PASS
5642.81	-57.74	12.52	-45.22	-30	-15.22	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH L 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
53.55	-59.15	3.91	-55.24	-36	-19.24	PASS
149.37	-71.82	6.95	-64.87	-36	-28.87	PASS
277.14	-67.22	9.27	-57.95	-36	-21.95	PASS
864.96	-62.45	9.75	-52.70	-36	-16.70	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH L 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1874.40	-60.03	18.05	-41.98	-30	-11.98	PASS
2761.34	-69.54	15.75	-53.79	-30	-23.79	PASS
3126.18	-62.09	13.06	-49.03	-30	-19.03	PASS
11544.11	-68.26	12.52	-55.74	-30	-25.74	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 3 CH L 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
63.88	-70.06	3.91	-66.15	-36	-30.15	PASS
200.18	-67.36	6.95	-60.41	-36	-24.41	PASS
381.82	-65.48	9.27	-56.21	-36	-20.21	PASS
840.27	-77.61	9.75	-67.86	-36	-31.86	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

## Band 3 CH L 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1930.33	-52.36	18.05	-34.31	-30	-4.31	PASS
2252.99	-50.8	15.75	-35.05	-30	-5.05	PASS
3932.67	-50.51	13.06	-37.45	-30	-7.45	PASS
5315.60	-49.23	12.52	-36.71	-30	-6.71	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 3 CH M 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
67.03	-64.41	3.91	-60.50	-36	-24.50	PASS
90.75	-75.87	6.95	-68.92	-36	-32.92	PASS
281.07	-76.54	9.27	-67.27	-36	-31.27	PASS
790.03	-76.04	9.75	-66.29	-36	-30.29	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 3 CH M 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1866.90	-53.56	18.05	-35.51	-30	-5.51	PASS
2658.35	-56.58	15.75	-40.83	-30	-10.83	PASS
3531.88	-68.44	13.06	-55.38	-30	-25.38	PASS
5695.37	-56.81	12.52	-44.29	-30	-14.29	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

## Band 3 CH M 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
50.07	-66.39	3.91	-62.48	-36	-26.48	PASS
174.47	-64.72	6.95	-57.77	-36	-21.77	PASS
422.42	-73.03	9.27	-63.76	-36	-27.76	PASS
825.34	-75.25	9.75	-65.50	-36	-29.50	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 3 CH M 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1057.44	-51.27	18.05	-33.22	-30	-3.22	PASS
2536.51	-68.95	15.75	-53.20	-30	-23.20	PASS
3596.42	-62.42	13.06	-49.36	-30	-19.36	PASS
8113.20	-56.83	12.52	-44.31	-30	-14.31	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH H 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
87.49	-76.08	3.91	-72.17	-36	-36.17	PASS
177.36	-61.92	6.95	-54.97	-36	-18.97	PASS
537.57	-60.74	9.27	-51.47	-36	-15.47	PASS
629.08	-66.48	9.75	-56.73	-36	-20.73	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH H 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1314.29	-61.2	18.05	-43.15	-30	-13.15	PASS
2801.79	-54.53	15.75	-38.78	-30	-8.78	PASS
3392.91	-58.73	13.06	-45.67	-30	-15.67	PASS
6829.47	-62.79	12.52	-50.27	-30	-20.27	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 3 CH H 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
43.14	-60.30	3.91	-56.39	-36	-20.39	PASS
112.91	-70.44	6.95	-63.49	-36	-27.49	PASS
544.38	-73.20	9.27	-63.93	-36	-27.93	PASS
696.81	-70.24	9.75	-60.49	-36	-24.49	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 3 CH H 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1430.50	-61.12	18.05	-43.07	-30	-13.07	PASS
2291.85	-52.24	15.75	-36.49	-30	-6.49	PASS
3197.95	-54.91	13.06	-41.85	-30	-11.85	PASS
7760.13	-51.15	12.52	-38.63	-30	-8.63	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Note: This report records the worst test results, test results only QPSK Mode worst

### Band 3 CH L 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
67.50	-68.74	3.91	-64.83	-36	-28.83	PASS
195.54	-72.12	6.95	-65.17	-36	-29.17	PASS
596.42	-60.55	9.27	-51.28	-36	-15.28	PASS
726.34	-76.75	9.75	-67.00	-36	-31.00	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH L 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1219.59	-65.62	18.05	-47.57	-30	-17.57	PASS
2772.75	-61.48	15.75	-45.73	-30	-15.73	PASS
3341.32	-50.43	13.06	-37.37	-30	-7.37	PASS
11247.98	-62.15	12.52	-49.63	-30	-19.63	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



### Band 3 CH L 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
90.03	-72.61	3.91	-68.70	-36	-32.70	PASS
111.17	-77.18	6.95	-70.23	-36	-34.23	PASS
205.19	-61.03	9.27	-51.76	-36	-15.76	PASS
762.63	-73.94	9.75	-64.19	-36	-28.19	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

### Band 3 CH L 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1734.19	-61.56	18.05	-43.51	-30	-13.51	PASS
2638.20	-56.62	15.75	-40.87	-30	-10.87	PASS
3998.38	-49.45	13.06	-36.39	-30	-6.39	PASS
11123.43	-51.22	12.52	-38.70	-30	-8.70	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

## Band 3 CH M 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
71.99	-64.02	3.91	-60.11	-36	-24.11	PASS
166.53	-65.67	6.95	-58.72	-36	-22.72	PASS
581.61	-76.41	9.27	-67.14	-36	-31.14	PASS
692.23	-67.89	9.75	-58.14	-36	-22.14	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 3 CH M 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1265.72	-66	18.05	-47.95	-30	-17.95	PASS
2053.81	-65.67	15.75	-49.92	-30	-19.92	PASS
3840.60	-62.76	13.06	-49.70	-30	-19.70	PASS
7259.76	-60.34	12.52	-47.82	-30	-17.82	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH M 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
45.89	-68.04	3.91	-64.13	-36	-28.13	PASS
174.85	-60.37	6.95	-53.42	-36	-17.42	PASS
407.75	-73.88	9.27	-64.61	-36	-28.61	PASS
755.48	-62.31	9.75	-52.56	-36	-16.56	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH M 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1965.97	-53.48	18.05	-35.43	-30	-5.43	PASS
2799.94	-55.46	15.75	-39.71	-30	-9.71	PASS
3914.41	-50.58	13.06	-37.52	-30	-7.52	PASS
11125.94	-65.64	12.52	-53.12	-30	-23.12	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH H 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
46.33	-71.83	3.91	-67.92	-36	-31.92	PASS
200.63	-63.06	6.95	-56.11	-36	-20.11	PASS
244.70	-73.33	9.27	-64.06	-36	-28.06	PASS
605.99	-64.95	9.75	-55.20	-36	-19.20	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

### Band 3 CH H 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1800.80	-69.2	18.05	-51.15	-30	-21.15	PASS
2659.85	-67.78	15.75	-52.03	-30	-22.03	PASS
3160.69	-65.22	13.06	-52.16	-30	-22.16	PASS
4968.00	-50.95	12.52	-38.43	-30	-8.43	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

### Band 3 CH H 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
70.84	-68.66	3.91	-64.75	-36	-28.75	PASS
193.60	-78.22	6.95	-71.27	-36	-35.27	PASS
495.46	-69.17	9.27	-59.90	-36	-23.90	PASS
769.50	-74.31	9.75	-64.56	-36	-28.56	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 3 CH H 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1557.87	-52.93	18.05	-34.88	-30	-4.88	PASS
2474.28	-54.46	15.75	-38.71	-30	-8.71	PASS
3905.06	-57.62	13.06	-44.56	-30	-14.56	PASS
8729.44	-53.28	12.52	-40.76	-30	-10.76	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 7 CH L 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
76.78	-55.39	3.91	-51.48	-36	-15.48	PASS
113.41	-51.35	6.95	-44.40	-36	-8.40	PASS
359.74	-50.44	9.27	-41.17	-36	-5.17	PASS
883.96	-52.39	9.75	-42.64	-36	-6.64	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 7 CH L 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1929.03	-51.03	18.05	-32.98	-30	-2.98	PASS
2979.21	-56.64	15.75	-40.89	-30	-10.89	PASS
3451.01	-49.52	13.06	-36.46	-30	-6.46	PASS
6192.85	-53.82	12.52	-41.30	-30	-11.30	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 7 CH L 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
45.88	-49.05	3.91	-45.14	-36	-9.14	PASS
166.95	-53.55	6.95	-46.60	-36	-10.60	PASS
446.95	-56.97	9.27	-47.70	-36	-11.70	PASS
900.29	-49.39	9.75	-39.64	-36	-3.64	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 7 CH L 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1378.82	-58.75	18.05	-40.70	-30	-10.70	PASS
2344.74	-53.95	15.75	-38.20	-30	-8.20	PASS
3941.05	-54.75	13.06	-41.69	-30	-11.69	PASS
8187.76	-55.40	12.52	-42.88	-30	-12.88	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 7 CH M 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
48.63	-56.65	3.91	-52.74	-36	-16.74	PASS
154.05	-58.30	6.95	-51.35	-36	-15.35	PASS
493.95	-58.27	9.27	-49.00	-36	-13.00	PASS
638.98	-53.00	9.75	-43.25	-36	-7.25	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 7 CH M 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1488.71	-59.31	18.05	-41.26	-30	-11.26	PASS
2869.86	-59.38	15.75	-43.63	-30	-13.63	PASS
3559.62	-53.48	13.06	-40.42	-30	-10.42	PASS
11824.37	-51.45	12.52	-38.93	-30	-8.93	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



Band 7 CH M 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
57.33	-57.37	3.91	-53.46	-36	-17.46	PASS
168.21	-57.49	6.95	-50.54	-36	-14.54	PASS
249.73	-59.71	9.27	-50.44	-36	-14.44	PASS
791.26	-59.32	9.75	-49.57	-36	-13.57	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

Band 7 CH M 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1247.51	-59.11	18.05	-41.06	-30	-11.06	PASS
2401.80	-50.72	15.75	-34.97	-30	-4.97	PASS
3463.01	-56.47	13.06	-43.41	-30	-13.41	PASS
9279.83	-56.61	12.52	-44.09	-30	-14.09	PASS
Remark: 1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit						

### Band 7 CH H 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
68.49	-58.02	3.91	-54.11	-36	-18.11	PASS
199.69	-55.88	6.95	-48.93	-36	-12.93	PASS
403.30	-50.80	9.27	-41.53	-36	-5.53	PASS
736.35	-49.04	9.75	-39.29	-36	-3.29	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH H 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1880.89	-56.82	18.05	-38.77	-30	-8.77	PASS
2798.91	-59.38	15.75	-43.63	-30	-13.63	PASS
3460.31	-59.10	13.06	-46.04	-30	-16.04	PASS
5859.18	-49.32	12.52	-36.80	-30	-6.80	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH H 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
61.64	-49.46	3.91	-45.55	-36	-9.55	PASS
97.08	-51.83	6.95	-44.88	-36	-8.88	PASS
467.44	-56.39	9.27	-47.12	-36	-11.12	PASS
651.89	-53.19	9.75	-43.44	-36	-7.44	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH H 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1993.81	-57.78	18.05	-39.73	-30	-9.73	PASS
2344.71	-57.16	15.75	-41.41	-30	-11.41	PASS
3229.07	-50.34	13.06	-37.28	-30	-7.28	PASS
11359.99	-56.95	12.52	-44.43	-30	-14.43	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 7 CH L 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
46.22	-74.09	3.91	-70.18	-36	-34.18	PASS
185.54	-69.28	6.95	-62.33	-36	-26.33	PASS
580.38	-79.44	9.27	-70.17	-36	-34.17	PASS
682.15	-62.20	9.75	-52.45	-36	-16.45	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 7 CH L 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1690.89	-65.82	18.05	-47.77	-30	-17.77	PASS
2559.07	-60.63	15.75	-44.88	-30	-14.88	PASS
3314.18	-57.91	13.06	-44.85	-30	-14.85	PASS
5122.59	-66.84	12.52	-54.32	-30	-24.32	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH L 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
44.25	-72.26	3.91	-68.35	-36	-32.35	PASS
110.17	-77.63	6.95	-70.68	-36	-34.68	PASS
306.88	-69.12	9.27	-59.85	-36	-23.85	PASS
883.21	-79.21	9.75	-69.46	-36	-33.46	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH L 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1066.13	-56.79	18.05	-38.74	-30	-8.74	PASS
2210.41	-62.18	15.75	-46.43	-30	-16.43	PASS
3192.05	-50.01	13.06	-36.95	-30	-6.95	PASS
8163.37	-55.31	12.52	-42.79	-30	-12.79	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH M 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
44.92	-65.63	3.91	-61.72	-36	-25.72	PASS
187.40	-67.85	6.95	-60.90	-36	-24.90	PASS
442.03	-78.26	9.27	-68.99	-36	-32.99	PASS
764.88	-69.86	9.75	-60.11	-36	-24.11	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH M 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1956.20	-69.57	18.05	-51.52	-30	-21.52	PASS
2647.16	-56.68	15.75	-40.93	-30	-10.93	PASS
3603.65	-65.03	13.06	-51.97	-30	-21.97	PASS
4134.17	-53.26	12.52	-40.74	-30	-10.74	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH M 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
75.32	-79.27	3.91	-75.36	-36	-39.36	PASS
106.49	-59.03	6.95	-52.08	-36	-16.08	PASS
234.84	-62.77	9.27	-53.50	-36	-17.50	PASS
855.50	-67.39	9.75	-57.64	-36	-21.64	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH M 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1208.25	-66.31	18.05	-48.26	-30	-18.26	PASS
2628.10	-63.04	15.75	-47.29	-30	-17.29	PASS
3784.19	-69.65	13.06	-56.59	-30	-26.59	PASS
10101.92	-60.69	12.52	-48.17	-30	-18.17	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH H 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
76.88	-71.38	3.91	-67.47	-36	-31.47	PASS
185.62	-61.32	6.95	-54.37	-36	-18.37	PASS
500.08	-76.02	9.27	-66.75	-36	-30.75	PASS
895.03	-60.81	9.75	-51.06	-36	-15.06	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH H 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1664.39	-52.35	18.05	-34.30	-30	-4.30	PASS
2434.50	-57.41	15.75	-41.66	-30	-11.66	PASS
3406.39	-65.72	13.06	-52.66	-30	-22.66	PASS
10662.01	-60.4	12.52	-47.88	-30	-17.88	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



### Band 7 CH H 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
81.73	-71.36	3.91	-67.45	-36	-31.45	PASS
93.29	-66.31	6.95	-59.36	-36	-23.36	PASS
291.16	-78.36	9.27	-69.09	-36	-33.09	PASS
846.73	-79.58	9.75	-69.83	-36	-33.83	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 7 CH H 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1050.67	-66.98	18.05	-48.93	-30	-18.93	PASS
2494.17	-50.13	15.75	-34.38	-30	-4.38	PASS
3399.14	-60.49	13.06	-47.43	-30	-17.43	PASS
11990.75	-69.13	12.52	-56.61	-30	-26.61	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH L 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
44.94	-60.42	3.91	-56.51	-36	-20.51	PASS
171.29	-79.98	6.95	-73.03	-36	-37.03	PASS
289.84	-73.39	9.27	-64.12	-36	-28.12	PASS
616.43	-75.89	9.75	-66.14	-36	-30.14	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH L 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1393.41	-60.53	18.05	-42.48	-30	-12.48	PASS
2361.79	-52.24	15.75	-36.49	-30	-6.49	PASS
3682.54	-50.38	13.06	-37.32	-30	-7.32	PASS
9550.44	-64.65	12.52	-52.13	-30	-22.13	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH L 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
62.52	-65.38	3.91	-61.47	-36	-25.47	PASS
124.22	-61.38	6.95	-54.43	-36	-18.43	PASS
242.32	-63.93	9.27	-54.66	-36	-18.66	PASS
621.39	-64.19	9.75	-54.44	-36	-18.44	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH L 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1920.85	-58.19	18.05	-40.14	-30	-10.14	PASS
2158.58	-53.14	15.75	-37.39	-30	-7.39	PASS
3912.58	-68.63	13.06	-55.57	-30	-25.57	PASS
5558.69	-51.56	12.52	-39.04	-30	-9.04	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH M 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
40.47	-72.36	3.91	-68.45	-36	-32.45	PASS
147.16	-70.61	6.95	-63.66	-36	-27.66	PASS
246.55	-72.97	9.27	-63.70	-36	-27.70	PASS
798.19	-65.13	9.75	-55.38	-36	-19.38	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH M 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1570.38	-55.1	18.05	-37.05	-30	-7.05	PASS
2915.66	-63.81	15.75	-48.06	-30	-18.06	PASS
3158.31	-59.59	13.06	-46.53	-30	-16.53	PASS
10628.08	-61.49	12.52	-48.97	-30	-18.97	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH M 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
64.92	-75.21	3.91	-71.30	-36	-35.30	PASS
124.49	-71.69	6.95	-64.74	-36	-28.74	PASS
509.11	-62.49	9.27	-53.22	-36	-17.22	PASS
866.20	-65.63	9.75	-55.88	-36	-19.88	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH M 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1081.45	-55.04	18.05	-36.99	-30	-6.99	PASS
2795.17	-57.48	15.75	-41.73	-30	-11.73	PASS
3314.16	-69.71	13.06	-56.65	-30	-26.65	PASS
4181.58	-52.75	12.52	-40.23	-30	-10.23	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH H 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
82.23	-61.34	3.91	-57.43	-36	-21.43	PASS
178.70	-78.87	6.95	-71.92	-36	-35.92	PASS
351.84	-67.06	9.27	-57.79	-36	-21.79	PASS
872.99	-76.57	9.75	-66.82	-36	-30.82	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH H 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1986.19	-58.22	18.05	-40.17	-30	-10.17	PASS
2298.63	-53.7	15.75	-37.95	-30	-7.95	PASS
3739.14	-57.96	13.06	-44.90	-30	-14.90	PASS
10662.10	-67.84	12.52	-55.32	-30	-25.32	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH H 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
77.19	-61.60	3.91	-57.69	-36	-21.69	PASS
161.31	-70.06	6.95	-63.11	-36	-27.11	PASS
247.32	-61.99	9.27	-52.72	-36	-16.72	PASS
796.95	-71.91	9.75	-62.16	-36	-26.16	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH H 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1844.99	-53.22	18.05	-35.17	-30	-5.17	PASS
2085.16	-57.09	15.75	-41.34	-30	-11.34	PASS
3100.18	-51.31	13.06	-38.25	-30	-8.25	PASS
4221.16	-61.26	12.52	-48.74	-30	-18.74	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH L 10M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
76.44	-62.85	3.91	-58.94	-36	-22.94	PASS
93.64	-78.24	6.95	-71.29	-36	-35.29	PASS
485.57	-63.30	9.27	-54.03	-36	-18.03	PASS
710.18	-66.20	9.75	-56.45	-36	-20.45	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH L 10M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1021.74	-52.7	18.05	-34.65	-30	-4.65	PASS
2733.93	-59.75	15.75	-44.00	-30	-14.00	PASS
3632.26	-53.5	13.06	-40.44	-30	-10.44	PASS
7928.09	-65.61	12.52	-53.09	-30	-23.09	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



## Band 8 CH L 10M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
34.42	-70.23	3.91	-66.32	-36	-30.32	PASS
109.06	-78.82	6.95	-71.87	-36	-35.87	PASS
351.07	-70.40	9.27	-61.13	-36	-25.13	PASS
704.43	-72.72	9.75	-62.97	-36	-26.97	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH L 10M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1607.05	-69.72	18.05	-51.67	-30	-21.67	PASS
2551.29	-55.52	15.75	-39.77	-30	-9.77	PASS
3103.18	-61.76	13.06	-48.70	-30	-18.70	PASS
4756.51	-60.43	12.52	-47.91	-30	-17.91	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH M 10M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
68.99	-74.36	3.91	-70.45	-36	-34.45	PASS
135.77	-74.55	6.95	-67.60	-36	-31.60	PASS
561.17	-68.81	9.27	-59.54	-36	-23.54	PASS
854.28	-68.77	9.75	-59.02	-36	-23.02	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH M 10M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1602.97	-50.14	18.05	-32.09	-30	-2.09	PASS
2433.37	-60.55	15.75	-44.80	-30	-14.80	PASS
3130.22	-68.18	13.06	-55.12	-30	-25.12	PASS
9311.07	-65	12.52	-52.48	-30	-22.48	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH M 10M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
38.58	-74.66	3.91	-70.75	-36	-34.75	PASS
120.77	-64.59	6.95	-57.64	-36	-21.64	PASS
425.23	-68.23	9.27	-58.96	-36	-22.96	PASS
862.40	-69.66	9.75	-59.91	-36	-23.91	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH M 10M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1059.85	-56.22	18.05	-38.17	-30	-8.17	PASS
2403.20	-57.43	15.75	-41.68	-30	-11.68	PASS
3445.26	-49.5	13.06	-36.44	-30	-6.44	PASS
5448.51	-65.46	12.52	-52.94	-30	-22.94	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH H 10M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
64.73	-76.80	3.91	-72.89	-36	-36.89	PASS
167.37	-71.66	6.95	-64.71	-36	-28.71	PASS
394.51	-66.23	9.27	-56.96	-36	-20.96	PASS
636.72	-64.25	9.75	-54.50	-36	-18.50	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 8 CH H 10M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1330.28	-69.06	18.05	-51.01	-30	-21.01	PASS
2632.04	-55.15	15.75	-39.40	-30	-9.40	PASS
3706.57	-57.04	13.06	-43.98	-30	-13.98	PASS
7933.32	-61.1	12.52	-48.58	-30	-18.58	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH H 10M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
52.26	-67.61	3.91	-63.70	-36	-27.70	PASS
147.96	-65.79	6.95	-58.84	-36	-22.84	PASS
293.78	-79.48	9.27	-70.21	-36	-34.21	PASS
611.22	-62.83	9.75	-53.08	-36	-17.08	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 8 CH H 10M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1941.83	-52.53	18.05	-34.48	-30	-4.48	PASS
2936.56	-49.03	15.75	-33.28	-30	-3.28	PASS
3866.52	-51.49	13.06	-38.43	-30	-8.43	PASS
6142.07	-65.05	12.52	-52.53	-30	-22.53	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH L 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
60.93	-75.46	3.91	-71.55	-36	-35.55	PASS
104.38	-73.22	6.95	-66.27	-36	-30.27	PASS
338.20	-76.09	9.27	-66.82	-36	-30.82	PASS
770.47	-71.06	9.75	-61.31	-36	-25.31	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH L 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1556.47	-69.26	18.05	-51.21	-30	-21.21	PASS
2728.38	-61.31	15.75	-45.56	-30	-15.56	PASS
3638.86	-50.03	13.06	-36.97	-30	-6.97	PASS
9168.72	-60.75	12.52	-48.23	-30	-18.23	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 20 CH L 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
61.91	-65.69	3.91	-61.78	-36	-25.78	PASS
155.92	-71.79	6.95	-64.84	-36	-28.84	PASS
410.99	-76.62	9.27	-67.35	-36	-31.35	PASS
624.20	-75.09	9.75	-65.34	-36	-29.34	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 20 CH L 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1723.55	-68.64	18.05	-50.59	-30	-20.59	PASS
2710.06	-58.45	15.75	-42.70	-30	-12.70	PASS
3845.73	-66.04	13.06	-52.98	-30	-22.98	PASS
5205.98	-64.51	12.52	-51.99	-30	-21.99	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH M 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
46.35	-60.54	3.91	-56.63	-36	-20.63	PASS
121.24	-73.03	6.95	-66.08	-36	-30.08	PASS
552.23	-73.23	9.27	-63.96	-36	-27.96	PASS
644.28	-67.82	9.75	-58.07	-36	-22.07	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH M 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1689.92	-66.41	18.05	-48.36	-30	-18.36	PASS
2800.31	-52.87	15.75	-37.12	-30	-7.12	PASS
3190.55	-51.15	13.06	-38.09	-30	-8.09	PASS
7140.99	-65.58	12.52	-53.06	-30	-23.06	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



### Band 20 CH M 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
75.41	-60.40	3.91	-56.49	-36	-20.49	PASS
119.73	-70.93	6.95	-63.98	-36	-27.98	PASS
226.62	-74.46	9.27	-65.19	-36	-29.19	PASS
878.80	-62.76	9.75	-53.01	-36	-17.01	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH M 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1179.32	-52.01	18.05	-33.96	-30	-3.96	PASS
2303.04	-51.25	15.75	-35.50	-30	-5.50	PASS
3892.64	-57.03	13.06	-43.97	-30	-13.97	PASS
11180.37	-65.28	12.52	-52.76	-30	-22.76	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH H 5M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
33.19	-69.88	3.91	-65.97	-36	-29.97	PASS
96.08	-71.47	6.95	-64.52	-36	-28.52	PASS
555.57	-68.36	9.27	-59.09	-36	-23.09	PASS
824.97	-74.71	9.75	-64.96	-36	-28.96	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH H 5M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1035.91	-58.75	18.05	-40.70	-30	-10.70	PASS
2862.93	-52.77	15.75	-37.02	-30	-7.02	PASS
3342.26	-57.51	13.06	-44.45	-30	-14.45	PASS
10456.78	-62.9	12.52	-50.38	-30	-20.38	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH H 5M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
44.79	-69.15	3.91	-65.24	-36	-29.24	PASS
153.63	-70.84	6.95	-63.89	-36	-27.89	PASS
362.83	-61.82	9.27	-52.55	-36	-16.55	PASS
883.56	-78.92	9.75	-69.17	-36	-33.17	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH H 5M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1556.53	-55.72	18.05	-37.67	-30	-7.67	PASS
2893.79	-68.1	15.75	-52.35	-30	-22.35	PASS
3308.29	-53.44	13.06	-40.38	-30	-10.38	PASS
6702.06	-55.81	12.52	-43.29	-30	-13.29	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH L 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
49.67	-72.60	3.91	-68.69	-36	-32.69	PASS
150.61	-68.17	6.95	-61.22	-36	-25.22	PASS
481.76	-61.12	9.27	-51.85	-36	-15.85	PASS
842.75	-77.69	9.75	-67.94	-36	-31.94	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH L 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1197.72	-69.08	18.05	-51.03	-30	-21.03	PASS
2378.70	-62.05	15.75	-46.30	-30	-16.30	PASS
3541.80	-51.47	13.06	-38.41	-30	-8.41	PASS
7212.12	-65.77	12.52	-53.25	-30	-23.25	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH L 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
40.62	-68.54	3.91	-64.63	-36	-28.63	PASS
128.05	-78.11	6.95	-71.16	-36	-35.16	PASS
545.56	-75.31	9.27	-66.04	-36	-30.04	PASS
754.51	-72.94	9.75	-63.19	-36	-27.19	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH L 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1284.21	-60.21	18.05	-42.16	-30	-12.16	PASS
2930.38	-58.34	15.75	-42.59	-30	-12.59	PASS
3625.18	-52.07	13.06	-39.01	-30	-9.01	PASS
9836.84	-64.1	12.52	-51.58	-30	-21.58	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 20 CH M 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
40.01	-65.61	3.91	-61.70	-36	-25.70	PASS
100.23	-76.35	6.95	-69.40	-36	-33.40	PASS
325.28	-66.69	9.27	-57.42	-36	-21.42	PASS
716.29	-78.86	9.75	-69.11	-36	-33.11	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 20 CH M 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1295.45	-56.49	18.05	-38.44	-30	-8.44	PASS
2511.10	-51.8	15.75	-36.05	-30	-6.05	PASS
3413.93	-49.02	13.06	-35.96	-30	-5.96	PASS
4368.80	-58.16	12.52	-45.64	-30	-15.64	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH M 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
79.85	-68.05	3.91	-64.14	-36	-28.14	PASS
181.49	-76.91	6.95	-69.96	-36	-33.96	PASS
412.89	-62.87	9.27	-53.60	-36	-17.60	PASS
892.53	-68.60	9.75	-58.85	-36	-22.85	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH M 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1782.94	-59.02	18.05	-40.97	-30	-10.97	PASS
2731.97	-57.5	15.75	-41.75	-30	-11.75	PASS
3299.90	-54.81	13.06	-41.75	-30	-11.75	PASS
8277.32	-69.81	12.52	-57.29	-30	-27.29	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 20 CH H 20M QPSK H 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
75.34	-63.12	3.91	-59.21	-36	-23.21	PASS
180.88	-77.60	6.95	-70.65	-36	-34.65	PASS
298.88	-73.11	9.27	-63.84	-36	-27.84	PASS
827.72	-71.94	9.75	-62.19	-36	-26.19	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Band 20 CH H 20M QPSK H 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1590.09	-65.34	18.05	-47.29	-30	-17.29	PASS
2350.61	-52.18	15.75	-36.43	-30	-6.43	PASS
3026.60	-64.01	13.06	-50.95	-30	-20.95	PASS
7733.01	-65.49	12.52	-52.97	-30	-22.97	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



### Band 20 CH H 20M QPSK V 30M-1G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
40.95	-62.95	3.91	-59.04	-36	-23.04	PASS
165.36	-66.96	6.95	-60.01	-36	-24.01	PASS
355.93	-75.80	9.27	-66.53	-36	-30.53	PASS
810.60	-60.40	9.75	-50.65	-36	-14.65	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

### Band 20 CH H 20M QPSK V 1-12.75G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1812.74	-53.32	18.05	-35.27	-30	-5.27	PASS
2164.96	-54.25	15.75	-38.50	-30	-8.50	PASS
3457.83	-49.26	13.06	-36.20	-30	-6.20	PASS
10133.46	-54.44	12.52	-41.92	-30	-11.92	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

## Idle Mode

Band 1 CH L 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
76.44	H	-83.87	8.07	-75.80	-57	-18.80	PASS
167.15	H	-77.77	7.62	-70.15	-57	-13.15	PASS
446.32	H	-77.64	5.62	-72.02	-57	-15.02	PASS
894.12	H	-88.55	8.80	-79.75	-57	-22.75	PASS
51.88	V	-69.43	2.77	-66.66	-57	-9.66	PASS
195.00	V	-72.53	7.04	-65.49	-57	-8.49	PASS
405.39	V	-82.07	5.42	-76.65	-57	-19.65	PASS
801.42	V	-85.51	4.44	-81.07	-57	-24.07	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 1 CH L 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1699.38	V	-74.21	8.92	-65.29	-47	-18.29	PASS
2140.07	V	-64.13	14.79	-49.34	-47	-2.34	PASS
3385.20	V	-71.45	11.97	-59.48	-47	-12.48	PASS
8847.31	V	-74.57	14.58	-59.99	-47	-12.99	PASS
1224.38	H	-77.30	11.13	-66.17	-47	-19.17	PASS
2701.28	H	-64.13	8.20	-55.93	-47	-8.93	PASS
3646.11	H	-71.83	11.93	-59.90	-47	-12.90	PASS
11276.63	H	-70.48	14.12	-56.36	-47	-9.36	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 1 CH M 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
31.62	H	-87.62	8.07	-79.55	-57	-22.55	PASS
148.82	H	-84.41	7.62	-76.79	-57	-19.79	PASS
530.73	H	-75.78	5.62	-70.16	-57	-13.16	PASS
772.13	H	-71.26	8.80	-62.46	-57	-5.46	PASS
65.71	V	-86.93	2.77	-84.16	-57	-27.16	PASS
129.90	V	-88.88	7.04	-81.84	-57	-24.84	PASS
567.01	V	-86.96	5.42	-81.54	-57	-24.54	PASS
808.01	V	-74.27	4.44	-69.83	-57	-12.83	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 1 CH M 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1403.55	V	-69.45	8.92	-60.53	-47	-13.53	PASS
2075.72	V	-77.87	14.79	-63.08	-47	-16.08	PASS
3719.71	V	-77.21	11.97	-65.24	-47	-18.24	PASS
7365.59	V	-69.23	14.58	-54.65	-47	-7.65	PASS
1595.63	H	-78.25	11.13	-67.12	-47	-20.12	PASS
2377.97	H	-67.75	8.20	-59.55	-47	-12.55	PASS
3399.91	H	-73.83	11.93	-61.90	-47	-14.90	PASS
7489.42	H	-77.19	14.12	-63.07	-47	-16.07	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 1 CH H 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
90.86	H	-77.53	8.07	-69.46	-57	-12.46	PASS
128.70	H	-81.36	7.62	-73.74	-57	-16.74	PASS
512.48	H	-89.33	5.62	-83.71	-57	-26.71	PASS
662.04	H	-85.31	8.80	-76.51	-57	-19.51	PASS
39.71	V	-84.42	2.77	-81.65	-57	-24.65	PASS
116.10	V	-80.58	7.04	-73.54	-57	-16.54	PASS
290.97	V	-69.11	5.42	-63.69	-57	-6.69	PASS
817.11	V	-69.25	4.44	-64.81	-57	-7.81	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 1 CH H 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1892.53	V	-73.14	8.92	-64.22	-47	-17.22	PASS
2913.46	V	-71.52	14.79	-56.73	-47	-9.73	PASS
3008.38	V	-78.62	11.97	-66.65	-47	-19.65	PASS
4980.03	V	-70.88	14.58	-56.30	-47	-9.30	PASS
1893.54	H	-76.99	11.13	-65.86	-47	-18.86	PASS
2863.87	H	-76.66	8.20	-68.46	-47	-21.46	PASS
3019.40	H	-68.38	11.93	-56.45	-47	-9.45	PASS
11038.58	H	-68.33	14.12	-54.21	-47	-7.21	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Note: The test band 1 for 5M and 20M have tested, the worst case is 20M, and the data have record.

Band 3 CH L 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
50.90	H	-79.44	8.07	-71.37	-57	-14.37	PASS
168.92	H	-82.09	7.62	-74.47	-57	-17.47	PASS
566.83	H	-84.11	5.62	-78.49	-57	-21.49	PASS
843.75	H	-69.52	8.80	-60.72	-57	-3.72	PASS
36.18	V	-70.64	2.77	-67.87	-57	-10.87	PASS
189.98	V	-70.26	7.04	-63.22	-57	-6.22	PASS
503.83	V	-78.89	5.42	-73.47	-57	-16.47	PASS
781.03	V	-85.95	4.44	-81.51	-57	-24.51	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 3 CH L 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1129.36	V	-71.43	8.92	-62.51	-47	-15.51	PASS
2608.86	V	-72.00	14.79	-57.21	-47	-10.21	PASS
3715.45	V	-69.71	11.97	-57.74	-47	-10.74	PASS
10013.49	V	-68.02	14.58	-53.44	-47	-6.44	PASS
1891.48	H	-64.44	11.13	-53.31	-47	-6.31	PASS
2682.18	H	-69.81	8.20	-61.61	-47	-14.61	PASS
3670.13	H	-64.42	11.93	-52.49	-47	-5.49	PASS
9549.27	H	-71.47	14.12	-57.35	-47	-10.35	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 3 CH M 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
82.12	H	-69.73	8.07	-61.66	-57	-4.66	PASS
148.88	H	-78.97	7.62	-71.35	-57	-14.35	PASS
442.55	H	-83.53	5.62	-77.91	-57	-20.91	PASS
697.11	H	-89.18	8.80	-80.38	-57	-23.38	PASS
86.18	V	-70.11	2.77	-67.34	-57	-10.34	PASS
135.40	V	-89.45	7.04	-82.41	-57	-25.41	PASS
431.76	V	-87.82	5.42	-82.40	-57	-25.40	PASS
793.52	V	-74.49	4.44	-70.05	-57	-13.05	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 3 CH M 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1604.44	V	-76.47	8.92	-67.55	-47	-20.55	PASS
2729.90	V	-67.49	14.79	-52.70	-47	-5.70	PASS
3421.15	V	-66.89	11.97	-54.92	-47	-7.92	PASS
11553.60	V	-64.43	14.58	-49.85	-47	-2.85	PASS
1578.76	H	-79.08	11.13	-67.95	-47	-20.95	PASS
2432.79	H	-69.93	8.20	-61.73	-47	-14.73	PASS
3369.46	H	-70.43	11.93	-58.50	-47	-11.50	PASS
5766.81	H	-71.12	14.12	-57.00	-47	-10.00	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 3 CH H 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
52.41	H	-70.41	8.07	-62.34	-57	-5.34	PASS
98.55	H	-73.53	7.62	-65.91	-57	-8.91	PASS
245.47	H	-88.97	5.62	-83.35	-57	-26.35	PASS
672.76	H	-76.27	8.80	-67.47	-57	-10.47	PASS
85.62	V	-88.17	2.77	-85.40	-57	-28.40	PASS
160.78	V	-69.24	7.04	-62.20	-57	-5.20	PASS
424.78	V	-79.81	5.42	-74.39	-57	-17.39	PASS
625.99	V	-84.44	4.44	-80.00	-57	-23.00	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 3 CH H 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1733.33	V	-76.37	8.92	-67.45	-47	-20.45	PASS
2698.84	V	-67.93	14.79	-53.14	-47	-6.14	PASS
3666.28	V	-64.60	11.97	-52.63	-47	-5.63	PASS
6796.78	V	-72.18	14.58	-57.60	-47	-10.60	PASS
1801.58	H	-76.08	11.13	-64.95	-47	-17.95	PASS
2948.54	H	-71.85	8.20	-63.65	-47	-16.65	PASS
3124.15	H	-73.10	11.93	-61.17	-47	-14.17	PASS
4142.99	H	-79.93	14.12	-65.81	-47	-18.81	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Note: The test band 3 for 1.4M, 5M and 20M have tested, the worst case is 20M, and the data have record.



Band 7 CH L 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
32.47	H	-72.45	8.07	-64.38	-57	-7.38	PASS
122.53	H	-76.71	7.62	-69.09	-57	-12.09	PASS
315.38	H	-71.06	5.62	-65.44	-57	-8.44	PASS
797.64	H	-73.78	8.80	-64.98	-57	-7.98	PASS
54.32	V	-73.80	2.77	-71.03	-57	-14.03	PASS
94.00	V	-78.94	7.04	-71.90	-57	-14.90	PASS
224.28	V	-77.24	5.42	-71.82	-57	-14.82	PASS
654.38	V	-76.24	4.44	-71.80	-57	-14.80	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 7 CH L 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1730.72	V	-67.17	8.92	-58.25	-47	-11.25	PASS
2713.45	V	-66.28	14.79	-51.49	-47	-4.49	PASS
3303.20	V	-69.34	11.97	-57.37	-47	-10.37	PASS
9181.55	V	-65.35	14.58	-50.77	-47	-3.77	PASS
1470.76	H	-64.69	11.13	-53.56	-47	-6.56	PASS
2406.15	H	-64.96	8.20	-56.76	-47	-9.76	PASS
3496.64	H	-68.07	11.93	-56.14	-47	-9.14	PASS
4596.91	H	-66.83	14.12	-52.71	-47	-5.71	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



Band 7 CH M 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
51.43	H	-77.54	8.07	-69.47	-57	-12.47	PASS
116.80	H	-74.94	7.62	-67.32	-57	-10.32	PASS
253.72	H	-79.13	5.62	-73.51	-57	-16.51	PASS
778.17	H	-72.79	8.80	-63.99	-57	-6.99	PASS
62.58	V	-76.39	2.77	-73.62	-57	-16.62	PASS
175.50	V	-74.82	7.04	-67.78	-57	-10.78	PASS
394.98	V	-77.64	5.42	-72.22	-57	-15.22	PASS
869.30	V	-76.35	4.44	-71.91	-57	-14.91	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 7 CH M 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1195.21	V	-68.84	8.92	-59.92	-47	-12.92	PASS
2212.86	V	-65.99	14.79	-51.20	-47	-4.20	PASS
3456.12	V	-68.47	11.97	-56.50	-47	-9.50	PASS
6060.15	V	-67.42	14.58	-52.84	-47	-5.84	PASS
1607.91	H	-64.32	11.13	-53.19	-47	-6.19	PASS
2958.74	H	-69.01	8.20	-60.81	-47	-13.81	PASS
3386.07	H	-66.00	11.93	-54.07	-47	-7.07	PASS
10789.74	H	-67.40	14.12	-53.28	-47	-6.28	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 7 CH H 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
48.22	H	-78.59	8.07	-70.52	-57	-13.52	PASS
123.84	H	-76.13	7.62	-68.51	-57	-11.51	PASS
414.88	H	-75.71	5.62	-70.09	-57	-13.09	PASS
843.01	H	-79.12	8.80	-70.32	-57	-13.32	PASS
72.35	V	-78.59	2.77	-75.82	-57	-18.82	PASS
197.04	V	-74.25	7.04	-67.21	-57	-10.21	PASS
488.00	V	-72.37	5.42	-66.95	-57	-9.95	PASS
777.31	V	-75.18	4.44	-70.74	-57	-13.74	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 7 CH H 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1287.00	V	-64.09	8.92	-55.17	-47	-8.17	PASS
2346.51	V	-69.63	14.79	-54.84	-47	-7.84	PASS
3216.14	V	-67.63	11.97	-55.66	-47	-8.66	PASS
11916.26	V	-68.45	14.58	-53.87	-47	-6.87	PASS
1618.79	H	-67.67	11.13	-56.54	-47	-9.54	PASS
2124.76	H	-69.82	8.20	-61.62	-47	-14.62	PASS
3111.55	H	-69.71	11.93	-57.78	-47	-10.78	PASS
7248.41	H	-68.72	14.12	-54.60	-47	-7.60	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Note: The test band 7 for 5M and 20M have tested, the worst case is 20M, and the data have record.

Band 8 CH L 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
47.83	H	-89.73	8.07	-81.66	-57	-24.66	PASS
117.90	H	-70.44	7.62	-62.82	-57	-5.82	PASS
565.30	H	-76.17	5.62	-70.55	-57	-13.55	PASS
653.75	H	-78.47	8.80	-69.67	-57	-12.67	PASS
74.42	V	-72.09	2.77	-69.32	-57	-12.32	PASS
97.11	V	-70.68	7.04	-63.64	-57	-6.64	PASS
241.70	V	-88.39	5.42	-82.97	-57	-25.97	PASS
861.68	V	-76.95	4.44	-72.51	-57	-15.51	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 8 CH L 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1754.57	V	-65.24	8.92	-56.32	-47	-9.32	PASS
2281.21	V	-79.20	14.79	-64.41	-47	-17.41	PASS
3571.12	V	-66.63	11.97	-54.66	-47	-7.66	PASS
8824.75	V	-70.48	14.58	-55.90	-47	-8.90	PASS
1910.21	H	-76.17	11.13	-65.04	-47	-18.04	PASS
2158.52	H	-75.10	8.20	-66.90	-47	-19.90	PASS
3971.59	H	-76.13	11.93	-64.20	-47	-17.20	PASS
8143.10	H	-72.32	14.12	-58.20	-47	-11.20	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 8 CH M 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
78.24	H	-83.92	8.07	-75.85	-57	-18.85	PASS
147.58	H	-73.12	7.62	-65.50	-57	-8.50	PASS
340.70	H	-88.33	5.62	-82.71	-57	-25.71	PASS
623.56	H	-80.64	8.80	-71.84	-57	-14.84	PASS
69.01	V	-79.77	2.77	-77.00	-57	-20.00	PASS
177.59	V	-79.33	7.04	-72.29	-57	-15.29	PASS
557.26	V	-73.50	5.42	-68.08	-57	-11.08	PASS
658.29	V	-77.01	4.44	-72.57	-57	-15.57	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 8 CH M 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1714.03	V	-77.61	8.92	-68.69	-47	-21.69	PASS
2176.54	V	-73.40	14.79	-58.61	-47	-11.61	PASS
3109.60	V	-73.16	11.97	-61.19	-47	-14.19	PASS
5425.98	V	-73.96	14.58	-59.38	-47	-12.38	PASS
1836.87	H	-77.91	11.13	-66.78	-47	-19.78	PASS
2535.12	H	-66.30	8.20	-58.10	-47	-11.10	PASS
3191.03	H	-68.96	11.93	-57.03	-47	-10.03	PASS
6443.09	H	-70.59	14.12	-56.47	-47	-9.47	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 8 CH H 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
32.96	H	-72.81	8.07	-64.74	-57	-7.74	PASS
138.55	H	-69.08	7.62	-61.46	-57	-4.46	PASS
588.80	H	-84.13	5.62	-78.51	-57	-21.51	PASS
745.55	H	-82.81	8.80	-74.01	-57	-17.01	PASS
77.23	V	-79.50	2.77	-76.73	-57	-19.73	PASS
187.88	V	-76.58	7.04	-69.54	-57	-12.54	PASS
580.60	V	-79.29	5.42	-73.87	-57	-16.87	PASS
602.39	V	-72.89	4.44	-68.45	-57	-11.45	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 8 CH H 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1555.18	V	-72.93	8.92	-64.01	-47	-17.01	PASS
2205.71	V	-75.21	14.79	-60.42	-47	-13.42	PASS
3945.31	V	-67.25	11.97	-55.28	-47	-8.28	PASS
11319.33	V	-71.13	14.58	-56.55	-47	-9.55	PASS
1574.01	H	-71.18	11.13	-60.05	-47	-13.05	PASS
2594.12	H	-79.58	8.20	-71.38	-47	-24.38	PASS
3005.65	H	-78.99	11.93	-67.06	-47	-20.06	PASS
5964.08	H	-74.81	14.12	-60.69	-47	-13.69	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Note: The test band 8 for 1.4M, 5M and 10M have tested, the worst case is 20M, and the data have record.

Band 20 CH L 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
42.83	H	-69.48	8.07	-61.41	-57	-4.41	PASS
181.77	H	-87.88	7.62	-80.26	-57	-23.26	PASS
225.05	H	-83.86	5.62	-78.24	-57	-21.24	PASS
634.14	H	-79.52	8.80	-70.72	-57	-13.72	PASS
60.48	V	-73.21	2.77	-70.44	-57	-13.44	PASS
194.04	V	-69.38	7.04	-62.34	-57	-5.34	PASS
303.42	V	-71.83	5.42	-66.41	-57	-9.41	PASS
656.80	V	-74.80	4.44	-70.36	-57	-13.36	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 20 CH L 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1589.06	V	-65.96	8.92	-57.04	-47	-10.04	PASS
2250.40	V	-64.78	14.79	-49.99	-47	-2.99	PASS
3683.45	V	-75.52	11.97	-63.55	-47	-16.55	PASS
7158.09	V	-67.57	14.58	-52.99	-47	-5.99	PASS
1604.16	H	-75.99	11.13	-64.86	-47	-17.86	PASS
2620.52	H	-78.90	8.20	-70.70	-47	-23.70	PASS
3837.65	H	-73.86	11.93	-61.93	-47	-14.93	PASS
5824.73	H	-64.19	14.12	-50.07	-47	-3.07	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 20 CH M 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
76.79	H	-77.36	8.07	-69.29	-57	-12.29	PASS
102.71	H	-89.86	7.62	-82.24	-57	-25.24	PASS
421.39	H	-89.47	5.62	-83.85	-57	-26.85	PASS
821.65	H	-75.77	8.80	-66.97	-57	-9.97	PASS
60.47	V	-80.61	2.77	-77.84	-57	-20.84	PASS
98.88	V	-81.08	7.04	-74.04	-57	-17.04	PASS
340.06	V	-71.51	5.42	-66.09	-57	-9.09	PASS
773.89	V	-75.17	4.44	-70.73	-57	-13.73	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 20 CH M 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1006.79	V	-75.93	8.92	-67.01	-47	-20.01	PASS
2673.45	V	-77.19	14.79	-62.40	-47	-15.40	PASS
3973.73	V	-76.29	11.97	-64.32	-47	-17.32	PASS
8934.01	V	-74.60	14.58	-60.02	-47	-13.02	PASS
1345.20	H	-70.59	11.13	-59.46	-47	-12.46	PASS
2137.03	H	-74.81	8.20	-66.61	-47	-19.61	PASS
3796.93	H	-68.21	11.93	-56.28	-47	-9.28	PASS
7954.20	H	-71.29	14.12	-57.17	-47	-10.17	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit



Band 20 CH H 20M QPSK 30M-1G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
60.36	H	-69.06	8.07	-60.99	-57	-3.99	PASS
109.92	H	-84.66	7.62	-77.04	-57	-20.04	PASS
232.97	H	-75.48	5.62	-69.86	-57	-12.86	PASS
834.14	H	-83.95	8.80	-75.15	-57	-18.15	PASS
56.54	V	-86.43	2.77	-83.66	-57	-26.66	PASS
115.13	V	-76.79	7.04	-69.75	-57	-12.75	PASS
481.06	V	-85.60	5.42	-80.18	-57	-23.18	PASS
820.34	V	-78.56	4.44	-74.12	-57	-17.12	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Band 20 CH H 20M QPSK 1-12.75G

Frequency	Polarity	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	H/V	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1941.21	V	-74.20	8.92	-65.28	-47	-18.28	PASS
2303.40	V	-76.72	14.79	-61.93	-47	-14.93	PASS
3413.45	V	-64.93	11.97	-52.96	-47	-5.96	PASS
8823.72	V	-64.55	14.58	-49.97	-47	-2.97	PASS
1078.50	H	-69.33	11.13	-58.20	-47	-11.20	PASS
2394.81	H	-67.70	8.20	-59.50	-47	-12.50	PASS
3932.00	H	-77.73	11.93	-65.80	-47	-18.80	PASS
5909.12	H	-76.44	14.12	-62.32	-47	-15.32	PASS

Remark:

1. Emission Level= Meter Reading + Factor, Margin= Emission Level- Limit

Note: The test band 20 for 5M and 20M have tested, the worst case is 20M, and the data have record.



## D.2. CONTROL AND MONITORING FUNCTIONS (UE)

### Definition & Limits

This requirement, together with other control and monitoring technical requirements identified in the table of cross references in the applicable part, verifies that the control and monitoring functions of the UE prevent it from transmitting in the absence of a valid network.

This test is applicable to radio communications equipment and ancillary equipment in the operating band defined in the applicable part of this multi-part harmonised standard.

This test shall be performed on the radio communications equipment and/or a representative configuration of the ancillary equipment.

### Limits:

The maximum measured power during the duration of the test shall not exceed -30 dBm.

### Test method

a) At the start of the test, the UE shall be switched off. The UE antenna connector shall be connected to a power measuring equipment, with the following characteristics:

- the RF bandwidth shall exceed the total operating transmit frequency range of the UE for operation with an applicable part;
- the response time of the power measuring equipment shall be such that the measured power has reached within 1 dB of its steady state value within 100  $\mu$ s of a CW signal being applied;
- it shall record the maximum power measured.

NOTE: The equipment may include a video low pass filter to minimize its response to transients or Gaussian noise peaks.

b) The UE shall be switched on for a period of approximately fifteen minutes, and then switched off.

c) The EUT shall remain switched off for a period of at least thirty seconds, and shall then be switched on for a period of approximately one minute.

d) The maximum power emitted from the UE throughout the duration of the test shall be recorded. The results obtained shall be compared to the limits in clause 4.2.4.2 in order to prove compliance.

### Test Data

Test Condition	Monitoring band	Max Measured Power(dBm)	Limit(dBm)	Result
Normal	The whole band range	-44.31	-30	Pass

### D.3. OUT-OF-SYNCHRONIZATION HANDLING OF OUTPUT POWER

#### Definition

The UE shall monitor the DPCCH quality in order to detect a loss of the signal on Layer 1.

The threshold  $Q_{out}$  specifies at what DPCCH quality levels the UE shall shut its power off.

The threshold is not defined explicitly, but is defined by the conditions under which the UE shall shut its transmitter off, as stated in this clause.

The DPCCH quality shall be monitored in the UE and compared to the threshold  $Q_{out}$  for the purpose of monitoring synchronization. The threshold  $Q_{out}$  should correspond to a level of DPCCH quality where no reliable detection of the TPC commands transmitted on the downlink DPCCH can be made. This can be at a TPC command error ratio level of e.g. 20 %.

#### Limits

When the UE estimates the DPCCH quality over the last 160 ms period to be worse than a threshold  $Q_{out}$ , the UE shall shut its transmitter off within 40 ms.

The quality level at the thresholds  $Q_{out}$  correspond to different signal levels depending on the downlink conditions DCH parameters. For the conditions in table 4.2.11.2-1, a signal with the quality at the level  $Q_{out}$  can be generated by a  $DPCCH\_E_c/I_{or}$  ratio of -25 dB. The DL reference measurement channel 12,2 kbit/s is specified in ETSI TS 134 121-1 [1], clause C.3.1 and with static propagation conditions. The downlink physical channels, other than those specified in table 4.2.11.2-1, are as specified in table E.3.3 of annex E in ETSI TS 134 121-1 [1].

Parameter	Value	Unit
$\hat{I}_{or}/I_{oc}$	-1	dB
$I_{oc}$	-60	dBm/3,84 MHz
$\frac{DPDCH\_E_c}{I_{or}}$	See figure 4.2.11.2-1: Before point A: <ul style="list-style-type: none"> <li>-16,6 for UEs not supporting enhanced receiver performance type 1 for DCH</li> <li>-19,6 for UEs supporting enhanced receiver performance type 1 for DCH</li> </ul> After point A not defined	dB
$\frac{DPCCH\_E_c}{I_{or}}$	See figure 4.2.11.2-1	dB
Information Data Rate	12,2	kbit/s

Figure 4.2.11.2-1 and table 4.2.11.2-2 show an example scenario where the  $DPCCH\_E_c/I_{or}$  ratio varies from a level where the DPCH is demodulated under normal conditions, down to a level below  $Q_{out}$  where the UE shall shut its power off.

#### Test Procedure

##### Initial conditions

Test environment: normal (see annex B).

The frequencies to be tested are mid range as defined in ETSI TS 134 108 [2], clause 5.1:

- 1) Connect the SS to the UE antenna connector.
- 2) A call is set up according to the Generic call setup procedure, with the following exception according to table 5.3.10.1.1-1 for information elements in System Information Block type 1 found in ETSI TS 134 108 [2].

**Table 5.3.10.1.1-1: System Information Block type 1 message**

Information Element	Value
UE Timers and constants in connected mode	
- T313	15 s
- N313	200

- 3) RF parameters are set up according to table 4.2.11.2-1 with DPCCH\_Ec/Ior ratio level according To table 4.2.11.2-2, 'before A'.
- 4) Enter the UE into loopback test mode and start the loopback test using the procedure defined in ETSI TS 134 109 [3], clause 5.3.

Test Data

Environmental Conditions

Temperature	18~22° C
Relative Humidity	45~66%
ATM Pressure	101.1~101.7kPa

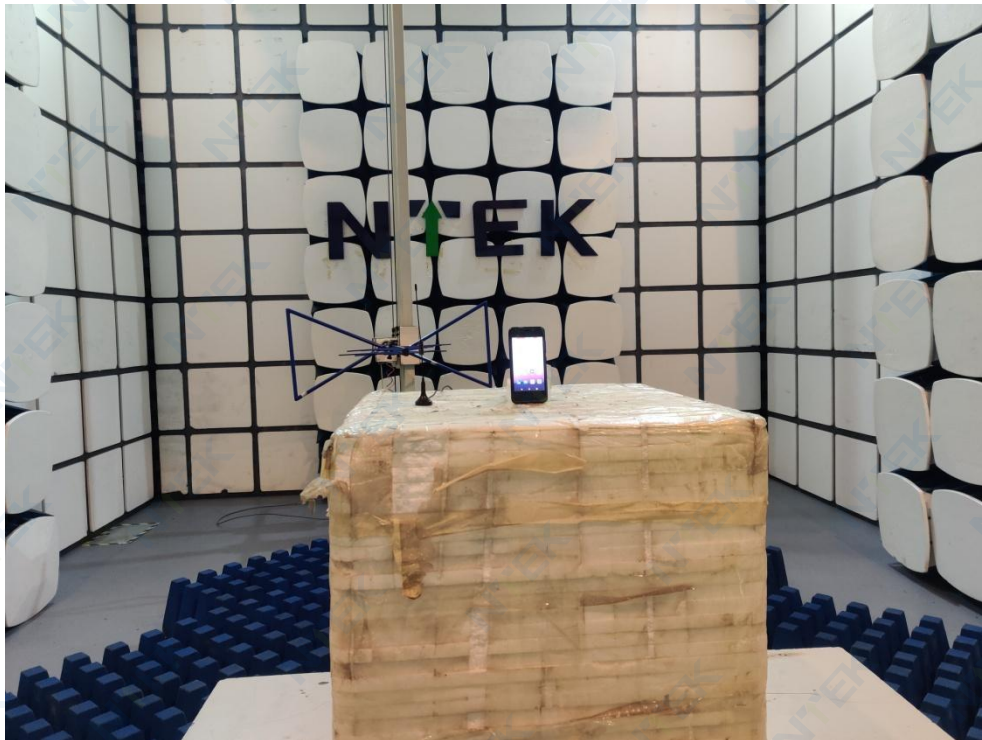
Test Result: Pass.

## **CONDUCTED TEST DATA**

Refer to APPENDIX A& APPENDIX B& APPENDIX C for LTE Test data

## **PHOTOGRAPHS OF THE TEST SETUP**



**Radiated Spurious Emission Test**

END OF REPORT