



RADIO TEST REPORT

For

Shenzhen Huafurui Technology Co., Ltd.

Smartphone

Test Model: KINGKONG ES

Prepared for : Shenzhen Huafurui Technology Co., Ltd.
Address : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : May 21, 2024
Number of tested samples : 2
Sample No. : A240520136-1, A240520136-2
Serial number : Prototype
Date of Test : May 21, 2024 ~ June 07, 2024
Date of Report : June 13, 2024



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: (+86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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| RADIO TEST REPORT | |
|---|--|
| ETSI EN 301 908-1 V15.2.1 (2023-01)&ETSI EN 301 908-2 V13.1.1 (2020-06) | |
| Report Reference No. | LCSA05204088EI |
| Date of Issue..... | June 13, 2024 |
| Testing Laboratory Name..... | Shenzhen LCS Compliance Testing Laboratory Ltd. |
| Address..... | Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China |
| Testing Location/ Procedure.... | Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/> |
| Applicant's Name..... | Shenzhen Huafurui Technology Co., Ltd. |
| Address..... | Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China |
| Test Specification | |
| Standard..... | ETSI EN 301 908-1 V15.2.1 (2023-01) ETSI EN 301 908-2 V13.1.1 (2020-06) |
| Test Report Form No..... | LCSEMC-1.0 |
| TRF Originator..... | Shenzhen LCS Compliance Testing Laboratory Ltd. |
| Master TRF..... | Dated 2017-06 |
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| Test Item Description..... | Smartphone |
| Trade Mark..... | CUBOT |
| Test Model..... | KINGKONG ES |
| Ratings | Please Refer to Page 6 |
| Result | Positive |

Compiled by:

Kevin Huang

Kevin Huang/ Administrator

Supervised by:

Cary Luo

Cary Luo/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager



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RADIO -- TEST REPORT

| | |
|---|---------------------------------------|
| Test Report No. : LCSA05204088EI | June 13, 2024 Date of issue |
|---|---------------------------------------|

Test Model..... : KINGKONG ES

EUT..... : Smartphone

Applicant..... : Shenzhen Huafurui Technology Co., Ltd.

Address..... : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Telephone..... : /

Fax..... : /

Manufacturer..... : Shenzhen Huafurui Technology Co., Ltd.

Address..... : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Telephone..... : /

Fax..... : /

Factory..... : Shenzhen Huafurui Technology Co., Ltd.

Address..... : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Telephone..... : /

Fax..... : /

| | |
|--------------------|-----------------|
| Test Result | Positive |
|--------------------|-----------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

| Report Version | Issue Date | Revision Content | Revised By |
|----------------|---------------|------------------|------------|
| 000 | June 13, 2024 | Initial Issue | --- |
| | | | |
| | | | |





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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

| | |
|---------------------|---|
| EUT | : Smartphone |
| Test Model | : KINGKONG ES |
| Ratings | : Input: DC 5V, 2000mA Adapter1 Model: HJ-0502000W2-EU For AC Adapter Input: 100-240V~, 50/60Hz, 0.3A Adapter Output: 5.0V=2.0A Output Power: 10W Adapter2 Model: QZ-01001EA00 For AC Adapter Input: 100-240V~, 50/60Hz, 0.3A Adapter Output: 5.0V=2.0A(10.0W) DC 3.87V by Rechargeable Li-ion Battery, 5100mAh |
| Hardware Version | : Q16-MB-V2.0 |
| Software Version | : CUBOT_KINGKONG ES_E081_V01 |
| Bluetooth | : |
| Frequency Range | : 2402MHz~2480MHz |
| Channel Number | : 79 channels for Bluetooth V5.0 (BDR/EDR) 40 channels for Bluetooth V5.0 (BT LE/ BT 2LE) |
| Channel Spacing | : 1MHz for Bluetooth V5.0 (BDR/EDR) 2MHz for Bluetooth V5.0 (BT LE/ BT 2LE) |
| Modulation Type | : GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (BDR/EDR) GFSK for Bluetooth V5.0 (BT LE/ BT 2LE) |
| Bluetooth Version | : V5.0 |
| Antenna Description | : PIFA Antenna, 2.64dBi(Max.) |
| WIFI(2.4G Band) | : |
| Frequency Range | : 2412MHz~2472MHz |
| Channel Spacing | : 5MHz |
| Channel Number | : 13 Channel for 20MHz bandwidth(2412~2472MHz) 9 channels for 40MHz bandwidth(2422~2462MHz) |
| Modulation Type | : 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description | : PIFA Antenna, 2.64dBi(Max.) |
| WIFI(5.2G Band) | : |
| Frequency Range | : 5180MHz~5240MHz |
| Channel Number | : 4 channels for 20MHz bandwidth(5180~5240MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 1 channels for 80MHz bandwidth(5210MHz) |
| Modulation Type | : 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |



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| | |
|---------------------|--|
| | 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description | : PIFA Antenna, 5.40dBi(Max.) |
| WIFI(5.8G Band) | : |
| Frequency Range | : 5745MHz~5825MHz |
| Channel Number | : 5 channels for 20MHz bandwidth(5745~5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz) |
| Modulation Type | : 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description | : PIFA Antenna, 5.40dBi(Max.) |
| 2G | : |
| Support Band | : <input checked="" type="checkbox"/> GSM 900 (EU-Band) <input checked="" type="checkbox"/> DCS 1800 (EU-Band) <input checked="" type="checkbox"/> GSM 850 (U.S.-Band) <input checked="" type="checkbox"/> PCS 1900 (U.S.-Band) |
| Release Version | : R99 |
| GPRS Class | : Class 12 |
| EGPRS Class | : Class 12 |
| Uplink | : GSM 900: 880MHz~915MHz DCS 1800: 1710MHz~1785MHz |
| Downlink | : GSM 900: 925MHz~960MHz DCS 1800: 1805MHz~1880MHz |
| Type Of Modulation | : GMSK for GSM/GPRS; GMSK/8PSK for EGPRS |
| Antenna Description | : PIFA Antenna 0.03dBi (max.) For GSM 900 -2.58dBi (max.) For DCS 1800 |
| Power Class | : GSM 900: Level 5, DCS 1800: Level 0 EGPRS 900: Level 8, EGPRS 1800: Level 2 |
| 3G | : |
| Support Band | : <input checked="" type="checkbox"/> WCDMA Band I (EU-Band) <input checked="" type="checkbox"/> WCDMA Band VIII (EU-Band) |
| Release Version | : R9 |
| Uplink | : WCDMA Band I: 1920MHz~1980MHz WCDMA Band VIII: 880MHz~915MHz |
| Downlink | : WCDMA Band I: 2110MHz~2170MHz WCDMA Band VIII: 925MHz~960MHz |
| Type Of Modulation | : QPSK/16QAM |
| Antenna Description | : PIFA Antenna -2.31dBi (max.) For WCDMA Band I 0.03dBi (max.) For WCDMA Band VIII |
| Power Class | : Level 3 |
| LTE | : |
| Support Band | : <input checked="" type="checkbox"/> E-UTRA Band 1(EU-Band) |



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- ☒ E-UTRA Band 3(EU-Band)
- ☒ E-UTRA Band 7(EU-Band)
- ☒ E-UTRA Band 8(EU-Band)
- ☒ E-UTRA Band 20(EU-Band)
- ☒ E-UTRA Band 28(EU-Band)
- ☒ E-UTRA Band 41(Non EU-Band)

LTE Release Version : R9

FDD Band : Uplink: E-UTRA Band 1: 1920MHz~1980MHz
E-UTRA Band 3: 1710MHz~1785MHz
E-UTRA Band 7: 2500MHz~2570MHz
E-UTRA Band 8: 880MHz~915MHz
E-UTRA Band 20: 832MHz~862MHz
E-UTRA Band 28: 703MHz~748MHz
Downlink: E-UTRA Band 1: 2110MHz~2170MHz
E-UTRA Band 3: 1805MHz~1880MHz
E-UTRA Band 7: 2620MHz~2690MHz
E-UTRA Band 8: 925MHz~960MHz
E-UTRA Band 20: 791MHz~821MHz
E-UTRA Band 28: 758MHz~803MHz

Type Of Modulation : QPSK/16QAM

Antenna Description : PIFA Antenna

- 2.31dBi (max.) For E-UTRA Band 1
- 2.93dBi (max.) For E-UTRA Band 3
- 1.67dBi (max.) For E-UTRA Band 7
- 0.03dBi (max.) For E-UTRA Band 8
- 6.25dBi (max.) For E-UTRA Band 20
- 0.03dBi (max.) For E-UTRA Band 28

Power Class : Class 3

GPS Receiver :

Receive Frequency : 1575.42MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0dBi(Max.)

GLONASS Receiver :

Receive Frequency : 1602.5625MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0dBi(Max.)

Galileo Receiver :

Receive Frequency : 1589.74MHz

Channel Number : 1

Antenna Description : PIFA Antenna, 0dBi(Max.)



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1.2. Support Equipment List

| Manufacturer | Description | Model | Serial Number | Certificate |
|---------------------------------------|------------------|------------------|---------------|-------------|
| ShenZhen HuaJin Electronics CO.,LTD | AC Power Adapter | HJ-0502000 W2-EU | --- | CE |
| Guangdong Quanzhi Technology Co, Ltd. | AC Adapter | QZ-01001E A00 | --- | CE |

1.3. External I/O

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-----------------------------|
| Type-C USB Port | 1 | USB Cable: 0.8m, unshielded |

1.4. Objective

| Standard Referenced | Standard Title | Standard Version |
|---------------------|--|-------------------|
| ETSI EN 301 908-1 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; Release 15 | V15.2.1 (2023-01) |
| ETSI EN 301 908-2 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE) | V13.1.1 (2020-06) |

The objective is to determine compliance with ETSI EN 301 908-1 V15.2.1 (2023-01) & ETSI EN 301 908-2 V13.1.1 (2020-06).

1.5. Test Conditions

| Conditions | Temperature | Voltage |
|--|-------------|----------|
| Normal | 21-25°C | DC 3.87V |
| Low extreme Temperature/Low extreme Voltage (TL/VL); | -20°C | DC 3.48V |
| Low extreme Temperature/High extreme Voltage (TL/VH); | -20°C | DC 4.45V |
| High extreme Temperature/Low extreme Voltage (TH/VL); | 45°C | DC 3.48V |
| High extreme Temperature/High extreme Voltage (TH/VH). | 45°C | DC 4.45V |

Note1: For all conditions, the humidity range is:40-75%, the pressure range is 86-106kPa. The High Voltage DC 4.45V and Low Voltage DC 3.48V was declared by manufacturer





1.6. Description Of Test Mode

1. WCDMA Band I

- 1). Low Channel Operation(9612Channel)
- 2). Middle Channel Operation(9750Channel)
- 3). High Channel Operation(9888Channel)

2. WCDMA Band VIII

- 1). Low Channel Operation(2713Channel)
- 2). Middle Channel Operation(2788Channel)
- 3). High Channel Operation(2862Channel)

1.7. Measurement Uncertainty (95% confidence levels, k=2)

| Test Item | | Uncertainty |
|-------------------------------|---|----------------------|
| Radio Frequency | : | 0.9×10^{-4} |
| Total RF Power, Conducted | : | 1.0 dB |
| RF Power Density, Conducted | : | 1.8 dB |
| Spurious Emissions, Conducted | : | 1.8 dB |
| All Emissions, Radiated | : | 3.1 dB |
| Temperature | : | 0.5°C |
| Humidity | : | 1 % |
| DC And Low Frequency Voltages | : | 1 % |

1.8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.



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2. SYSTEM TEST CONFIGURATION

2.1. Justification

N/A

2.2. EUT Exercise Software

N/A

2.3. Special Accessories

The special accessories were supplied by Shenzhen LCS Compliance Testing Laboratory Ltd.

2.4. Block Diagram/Schematics

Please refer to the related document.

2.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

2.6. Test Setup

Please refer to the test setup photo.





3. SUMMARY OF TEST RESULTS

| | | |
|------------------------|---|---------------|
| Test Engineer | : | Paddi Chen |
| Temperature/ Humidity: | : | 23.0°C/ 53.0% |

| Reference Clause No. (ETSI EN 301 908-2) | Description of Test Items | WCDMA Band VIII | WCDMA Band I |
|---|---|-----------------|--------------|
| | | Result | Result |
| 4.2.2 | Transmitter maximum output power | | |
| | Normal | Pass | Pass |
| | TL/VL | Pass | Pass |
| | TL/VH | Pass | Pass |
| | TH/VL | Pass | Pass |
| | TH/VH | Pass | Pass |
| | Transmitter maximum output power for HSDPA & HSUPA | | |
| | Normal | Pass | Pass |
| | TL/VL | Pass | Pass |
| | TL/VH | Pass | Pass |
| | TH/VL | Pass | Pass |
| | TH/VH | Pass | Pass |
| 4.2.3 | Transmitter spectrum emission mask | | |
| | Normal | Pass | Pass |
| | Transmitter spectrum emission mask for HSDPA & HSUPA | | |
| | Normal | Pass | Pass |
| 4.2.4 | Transmitter spurious emissions | | |
| | Normal | Pass | Pass |
| | Transmitter spurious emission for HSDPA & HSUPA | | |
| | Normal | Pass | Pass |
| 4.2.5 | Transmitter minimum output power | | |
| | Normal | Pass | Pass |
| | TL/VL | Pass | Pass |
| | TL/VH | Pass | Pass |
| | TH/VL | Pass | Pass |
| | TH/VH | Pass | Pass |
| 4.2.6 | Receiver Adjacent Channel Selectivity (ACS) | | |
| | NT / NV | Pass | Pass |
| | Receiver Adjacent Channel Selectivity for HSDPA & HSUPA | | |
| | NT / NV | Pass | Pass |
| 4.2.7 | Receiver blocking characteristics | | |
| | Normal | Pass | Pass |
| 4.2.8 | Receiver spurious response | | |
| | Normal | Pass | Pass |
| 4.2.9 | Receiver intermodulation characteristics | | |



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| | | | |
|--------|---|------|------|
| | Normal | Pass | Pass |
| 4.2.10 | Receiver spurious emissions | | |
| | Normal | Pass | Pass |
| 4.2.11 | Out-of-synchronization handling of output power | | |
| | Normal | Pass | Pass |
| 4.2.12 | Transmitter Adjacent Channel Leakage power Ratio (ACLR) | | |
| | Normal | Pass | Pass |
| | TL/VL | Pass | Pass |
| | TL/VH | Pass | Pass |
| | TH/VL | Pass | Pass |
| | TH/VH | Pass | Pass |
| | Transmitter Adjacent Channel Leakage power Ratio (ACLR) for HSDPA & HSUPA | | |
| | Normal | Pass | Pass |
| | TL/VL | Pass | Pass |
| | TL/VH | Pass | Pass |
| | TH/VL | Pass | Pass |
| | TH/VH | Pass | Pass |
| 4.2.13 | Receiver Reference Sensitivity level | | |
| | Normal | Pass | Pass |
| | TL/VL | Pass | Pass |
| | TL/VH | Pass | Pass |
| | TH/VL | Pass | Pass |
| | TH/VH | Pass | Pass |
| | Receiver Reference Sensitivity level for HSDPA & HSUPA | | |
| | Normal | Pass | Pass |
| | TL/VL | Pass | Pass |
| | TL/VH | Pass | Pass |
| | TH/VL | Pass | Pass |
| | TH/VH | Pass | Pass |

| Reference Clause No. (ETSI EN 301 908-1) | Description of Test Items | WCDMA Band VIII | WCDMA Band I |
|---|---------------------------------------|-----------------|--------------|
| | | Result | Result |
| 4.2.2 | Radiated emissions (UE) | | |
| | Normal | Pass | Pass |
| 4.2.4 | Control and monitoring functions (UE) | | |
| | Normal | Pass | Pass |

***Note:

Result: Describes test result of Test Case.

Pass: Test Case passed on specified conformance test platform.

Normal(TN/VN): Normal temperature – 25°C; Normal voltage. – DC 3.87V

TH: High extreme Temperature – +45°C

VH: High extreme Voltage – DC 4.45V

TL: Low extreme Temperature – -20°C

VL: Low extreme Voltage – DC 3.48V

N/A: Not applicable.

—: Not test.



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4. LIST OF MEASURING EQUIPMENT

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|-------------------------------------|-------------------|------------|-------------|------------|------------|
| 1 | LTE Test Software | Tonscend | JS1120-1 | N/A | N/A | N/A |
| 2 | RF Control Unit | Tonscend | JS0806-1 | 158060009 | 2023-10-18 | 2024-10-17 |
| 3 | MXA Signal Analyzer | Agilent | N9020A | MY51250905 | 2023-10-18 | 2024-10-17 |
| 4 | DC Power Supply | Agilent | E3642A | N/A | 2023-10-18 | 2024-10-17 |
| 5 | MXG Vector Signal Generator | Agilent | N5182A | MY47071151 | 2023-06-09 | 2024-06-08 |
| 6 | PSG Analog Signal Generator | Agilent | E8257D | MY4520521 | 2023-06-09 | 2024-06-08 |
| 7 | Temperature & Humidity Chamber | GUANGZHOU GOGNWEN | GDS-100 | 70932 | 2023-10-05 | 2024-10-04 |
| 8 | EMI Test Software | Farad | EZ | / | N/A | N/A |
| 9 | 3m Full Anechoic Chamber | MRDIANZI | FAC-3M | MR009 | 2022-08-17 | 2025-08-16 |
| 10 | Positioning Controller | Max-Full | MF7802BS | MF780208586 | N/A | N/A |
| 11 | Active Loop Antenna | SCHWARZBECK | FMZB 1519B | 00005 | 2021-08-29 | 2024-08-28 |
| 12 | By-log Antenna | SCHWARZBECK | VULB9163 | 9163-470 | 2021-09-12 | 2024-09-11 |
| 13 | Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-1925 | 2021-09-05 | 2024-09-04 |
| 14 | Broadband Horn Antenna | SCHWARZBECK | BBHA 9170 | 791 | 2021-08-29 | 2024-08-28 |
| 15 | Broadband Preamplifier | SCHWARZBECK | BBV9719 | 9719-025 | 2021-08-29 | 2024-08-28 |
| 16 | EMI Test Receiver | R&S | ESR 7 | 101181 | 2023-08-15 | 2024-08-14 |
| 17 | RS SPECTRUM ANALYZER | R&S | FSP40 | 100503 | 2023-07-17 | 2024-07-16 |
| 18 | Low-frequency amplifier | SchwarzZBECK | BBV9745 | 00253 | 2023-10-18 | 2024-10-17 |
| 19 | High-frequency amplifier | JS Denki Pte | PA0118-43 | JSPA21009 | 2023-10-18 | 2024-10-17 |
| 20 | WIDEBAND RADIO COMMUNICATION TESTER | R&S | CMW 500 | 103818 | 2023-06-09 | 2024-06-08 |
| 21 | RF Filter | Micro-Tronics | BRC50718 | 017 | 2023-10-18 | 2024-10-17 |
| 22 | RF Filter | Micro-Tronics | BRC50719 | 011 | 2023-10-18 | 2024-10-17 |
| 23 | RF Filter | Micro-Tronics | BRC50720 | 011 | 2023-10-18 | 2024-10-17 |
| 24 | RF Filter | Micro-Tronics | BRC50721 | 013 | 2023-10-18 | 2024-10-17 |
| 25 | RF Filter | Micro-Tronics | BRM50702 | 195 | 2023-08-15 | 2024-08-14 |
| 26 | 6dB Attenuator | / | 100W/6dB | 1172040 | 2023-06-09 | 2024-06-08 |
| 27 | 3dB Attenuator | / | 2N-3dB | / | 2023-10-18 | 2024-10-17 |





5. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix D for Photographs of Test Setup_RF.

6. PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix C for Photographs of The EUT.





Annex A

Transmitter maximum output power

The worst test result of maximum output power for WCDMA Band I

| Test Condition | | Measure Result (dBm) | | | Nominal Output Power (dBm) | Conclusion |
|------------------|---------------|----------------------|---------------------|-------------------|----------------------------|------------|
| Temperature (°C) | Voltage (Vdc) | Low Channel 9612 | Middle Channel 9750 | High Channel 9888 | | |
| TL | VL | 22.70 | 22.69 | 22.68 | 24 | Pass |
| | VN | 23.18 | 23.17 | 23.21 | | Pass |
| | VH | 23.09 | 23.07 | 23.07 | | Pass |
| TN | VL | 23.57 | 23.50 | 23.48 | | Pass |
| | VN | 23.51 | 23.58 | 23.54 | | Pass |
| | VH | 22.96 | 23.00 | 23.03 | | Pass |
| TH | VL | 23.06 | 23.08 | 23.03 | | Pass |
| | VN | 22.76 | 22.71 | 22.66 | | Pass |
| | VH | 22.99 | 22.98 | 23.01 | | Pass |

The worst test result of maximum output power for WCDMA Band I (HSUPA)

| Test Condition | | Measure Result (dBm) | | | Nominal Output Power (dBm) | Conclusion |
|------------------|---------------|----------------------|---------------------|-------------------|----------------------------|------------|
| Temperature (°C) | Voltage (Vdc) | Low Channel 9612 | Middle Channel 9750 | High Channel 9888 | | |
| TL | VL | 21.46 | 21.49 | 21.57 | 24 | Pass |
| | VN | 22.15 | 22.14 | 22.07 | | Pass |
| | VH | 21.96 | 21.92 | 21.94 | | Pass |
| TN | VL | 22.07 | 22.16 | 22.14 | | Pass |
| | VN | 22.31 | 22.34 | 22.29 | | Pass |
| | VH | 22.01 | 21.99 | 22.05 | | Pass |
| TH | VL | 21.81 | 21.80 | 21.85 | | Pass |
| | VN | 21.95 | 21.95 | 21.94 | | Pass |
| | VH | 21.65 | 21.56 | 21.60 | | Pass |

The worst test result of maximum output power for WCDMA Band I (HSDPA)

| Test Condition | | Measure Result (dBm) | | | Nominal Output Power (dBm) | Conclusion |
|------------------|---------------|----------------------|---------------------|-------------------|----------------------------|------------|
| Temperature (°C) | Voltage (Vdc) | Low Channel 9612 | Middle Channel 9750 | High Channel 9888 | | |
| TL | VL | 21.90 | 21.96 | 21.96 | 24 | Pass |
| | VN | 22.18 | 22.24 | 22.20 | | Pass |
| | VH | 21.88 | 21.89 | 21.88 | | Pass |
| TN | VL | 22.26 | 22.31 | 22.33 | | Pass |
| | VN | 22.67 | 22.70 | 22.66 | | Pass |
| | VH | 22.08 | 22.04 | 22.00 | | Pass |
| TH | VL | 22.06 | 22.05 | 22.08 | | Pass |
| | VN | 21.69 | 21.67 | 21.66 | | Pass |
| | VH | 21.56 | 21.55 | 21.59 | | Pass |



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The worst test result of maximum output power for WCDMA Band VIII

| Test Condition | | Measure Result (dBm) | | | Nominal Output Power (dBm) | Conclusion |
|------------------|---------------|----------------------|---------------------|-------------------|----------------------------|------------|
| Temperature (°C) | Voltage (Vdc) | Low Channel 2713 | Middle Channel 2788 | High Channel 2862 | | |
| TL | VL | 22.54 | 22.58 | 22.51 | 24 | Pass |
| | VN | 22.92 | 22.92 | 22.96 | | Pass |
| | VH | 23.01 | 23.04 | 23.00 | | Pass |
| TN | VL | 23.02 | 23.04 | 23.02 | | Pass |
| | VN | 23.56 | 23.51 | 23.48 | | Pass |
| | VH | 23.19 | 23.14 | 23.17 | | Pass |
| TH | VL | 22.97 | 22.93 | 22.97 | | Pass |
| | VN | 22.78 | 22.86 | 22.79 | | Pass |
| | VH | 22.99 | 22.92 | 22.95 | | Pass |

The worst test result of maximum output power for WCDMA Band VIII (HSUPA)

| Test Condition | | Measure Result (dBm) | | | Nominal Output Power (dBm) | Conclusion |
|------------------|---------------|----------------------|---------------------|-------------------|----------------------------|------------|
| Temperature (°C) | Voltage (Vdc) | Low Channel 2713 | Middle Channel 2788 | High Channel 2862 | | |
| TL | VL | 21.74 | 21.73 | 21.68 | 24 | Pass |
| | VN | 21.92 | 21.90 | 21.86 | | Pass |
| | VH | 21.82 | 21.81 | 21.80 | | Pass |
| TN | VL | 22.68 | 22.73 | 22.67 | | Pass |
| | VN | 21.98 | 21.96 | 21.95 | | Pass |
| | VH | 22.09 | 22.11 | 22.04 | | Pass |
| TH | VL | 21.71 | 21.70 | 21.71 | | Pass |
| | VN | 21.59 | 21.62 | 21.61 | | Pass |
| | VH | 22.08 | 22.12 | 22.14 | | Pass |

The worst test result of maximum output power for WCDMA Band VIII (HSDPA)

| Test Condition | | Measure Result (dBm) | | | Nominal Output Power (dBm) | Conclusion |
|------------------|---------------|----------------------|---------------------|-------------------|----------------------------|------------|
| Temperature (°C) | Voltage (Vdc) | Low Channel 2713 | Middle Channel 2788 | High Channel 2862 | | |
| TL | VL | 22.21 | 22.21 | 22.18 | 24 | Pass |
| | VN | 21.88 | 21.94 | 21.96 | | Pass |
| | VH | 22.06 | 22.04 | 22.04 | | Pass |
| TN | VL | 22.52 | 22.55 | 22.55 | | Pass |
| | VN | 22.10 | 22.04 | 22.00 | | Pass |
| | VH | 21.89 | 21.98 | 22.02 | | Pass |
| TH | VL | 22.10 | 22.05 | 22.06 | | Pass |
| | VN | 21.60 | 21.60 | 21.58 | | Pass |
| | VH | 21.87 | 21.96 | 21.90 | | Pass |



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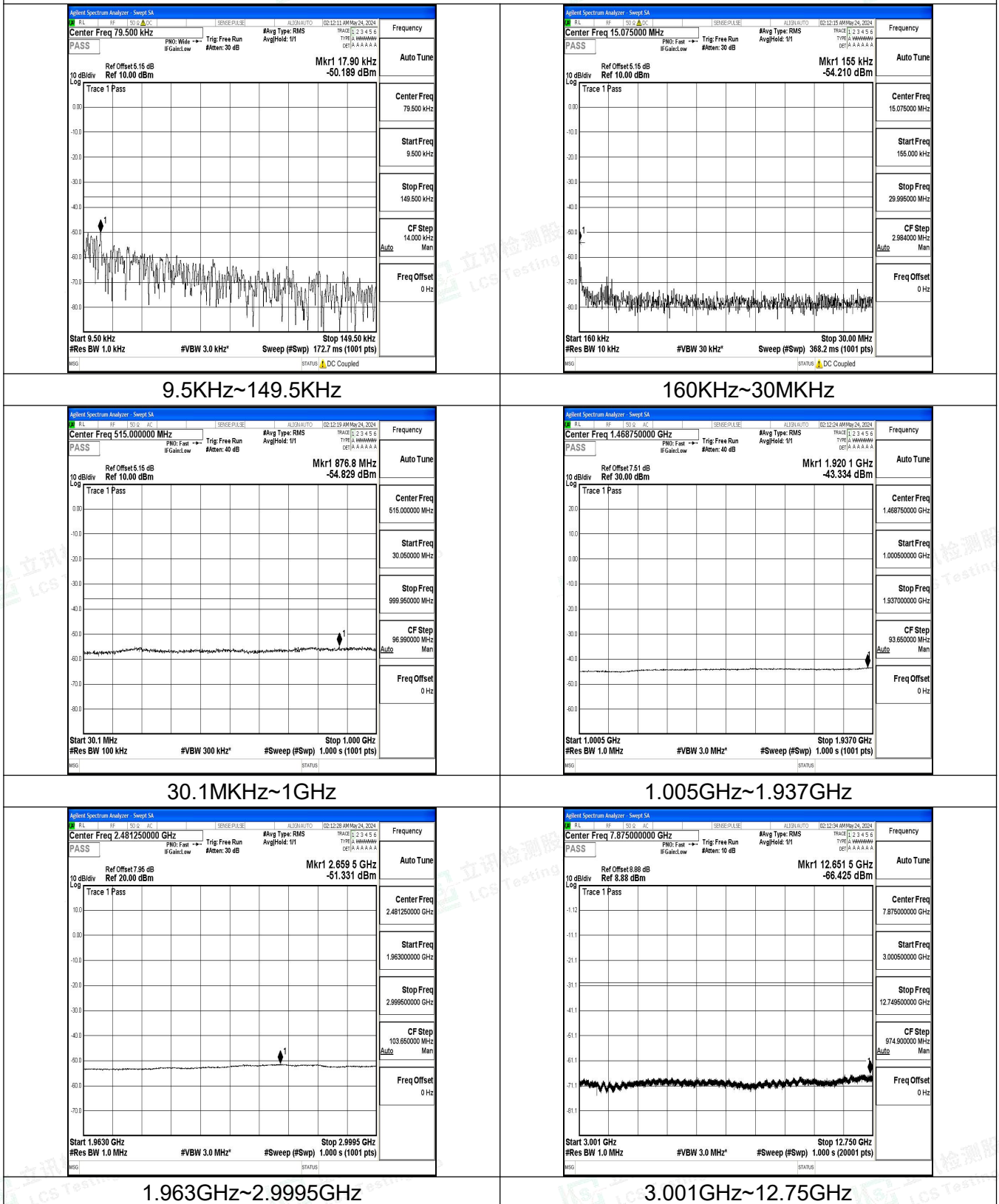
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Transmitter spurious emissions

(Note: Only Record The Worst Test Result.)

The Worst Test Result of Spurious Emissions for Band I (Middle Channel, Traffic)

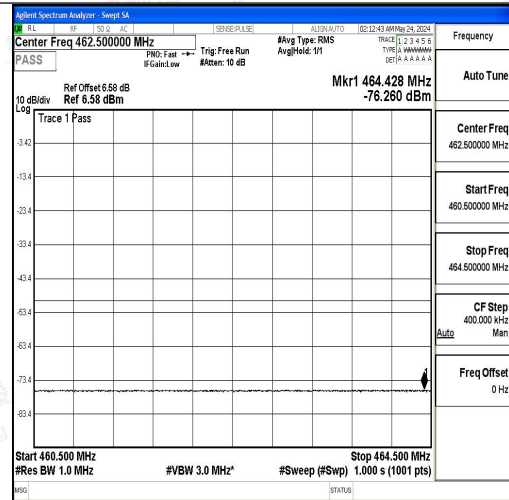
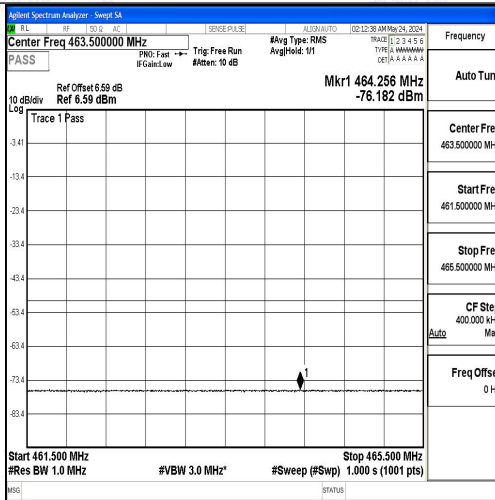


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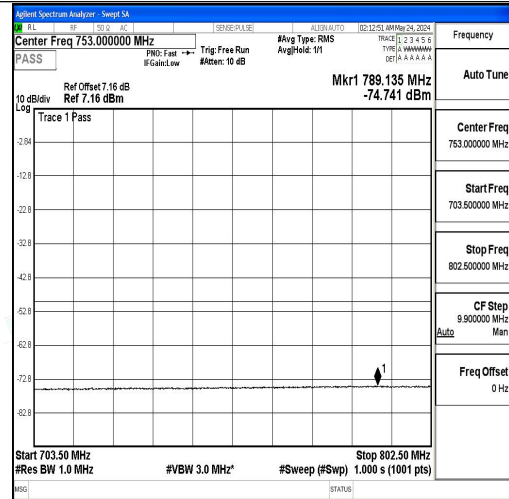
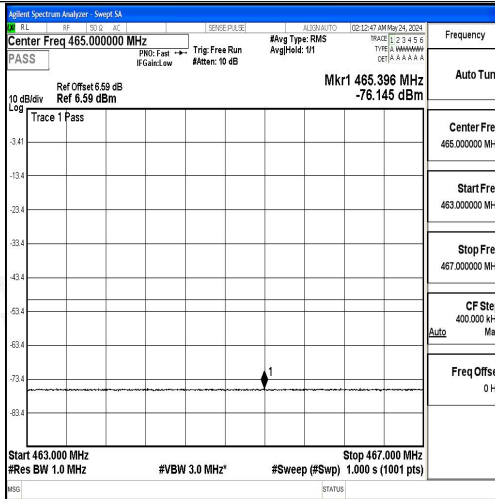
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**The Worst Test Result of Spurious Emissions for Band I (Middle Channel, Traffic)**

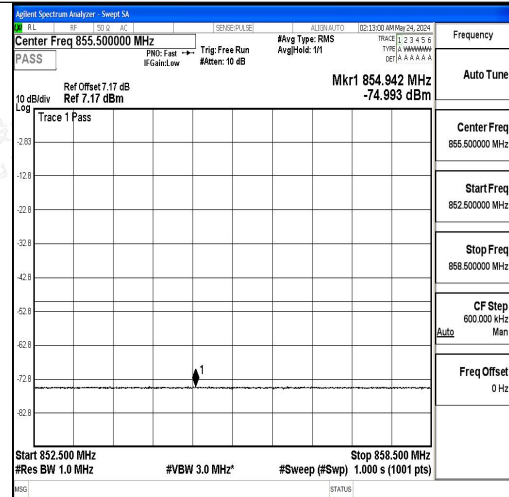
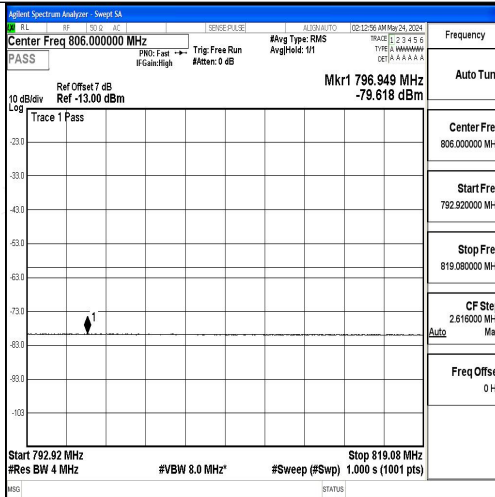
461.5MHz~465.5MHz

460.5MHz~464.5MHz



463MHz~467MHz

703.5MHz~802.5MHz



792.92MHz~819.08MHz

852.5MHz~858.5MHz



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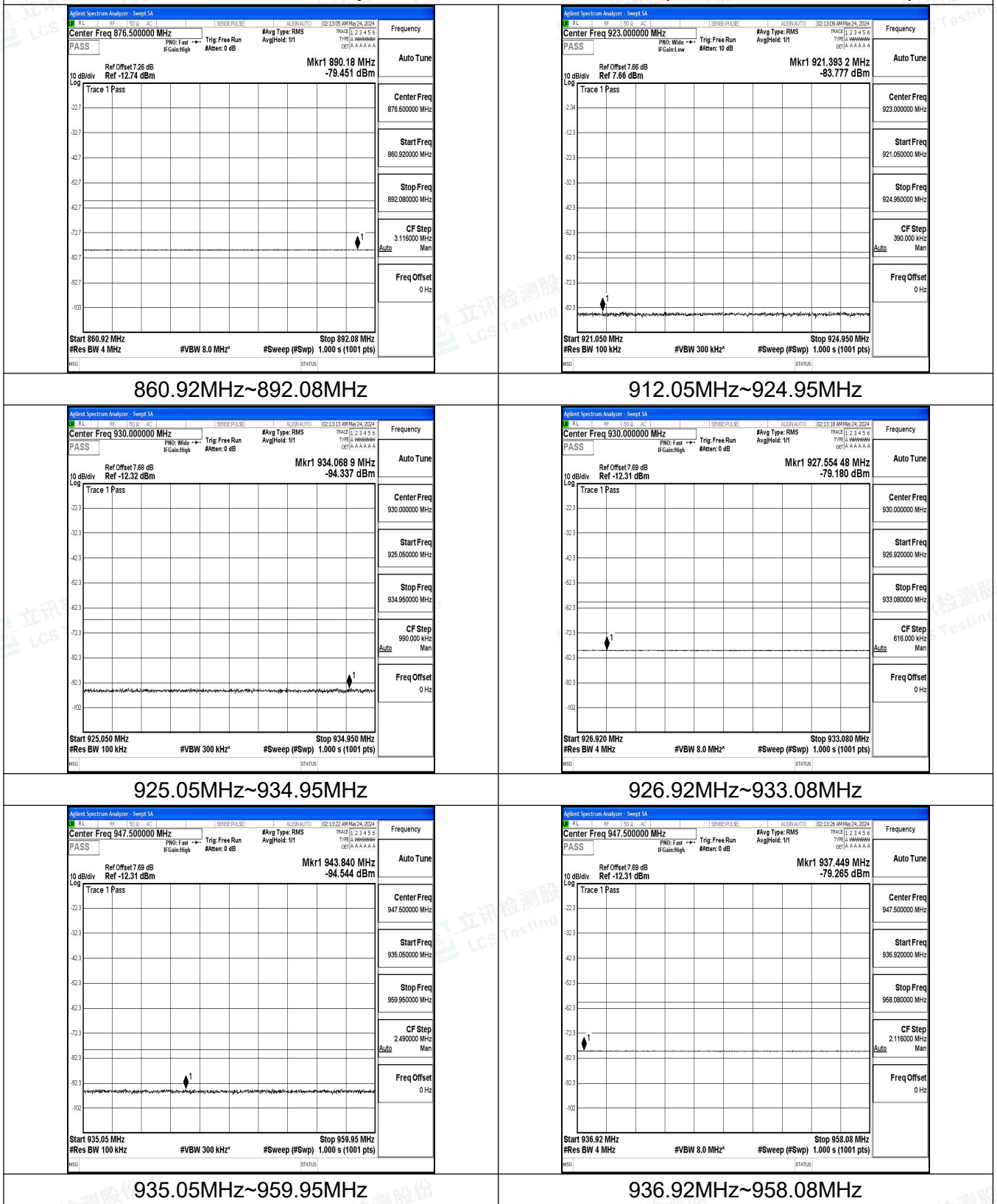
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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The Worst Test Result of Spurious Emissions for Band I (Middle Channel, Traffic)



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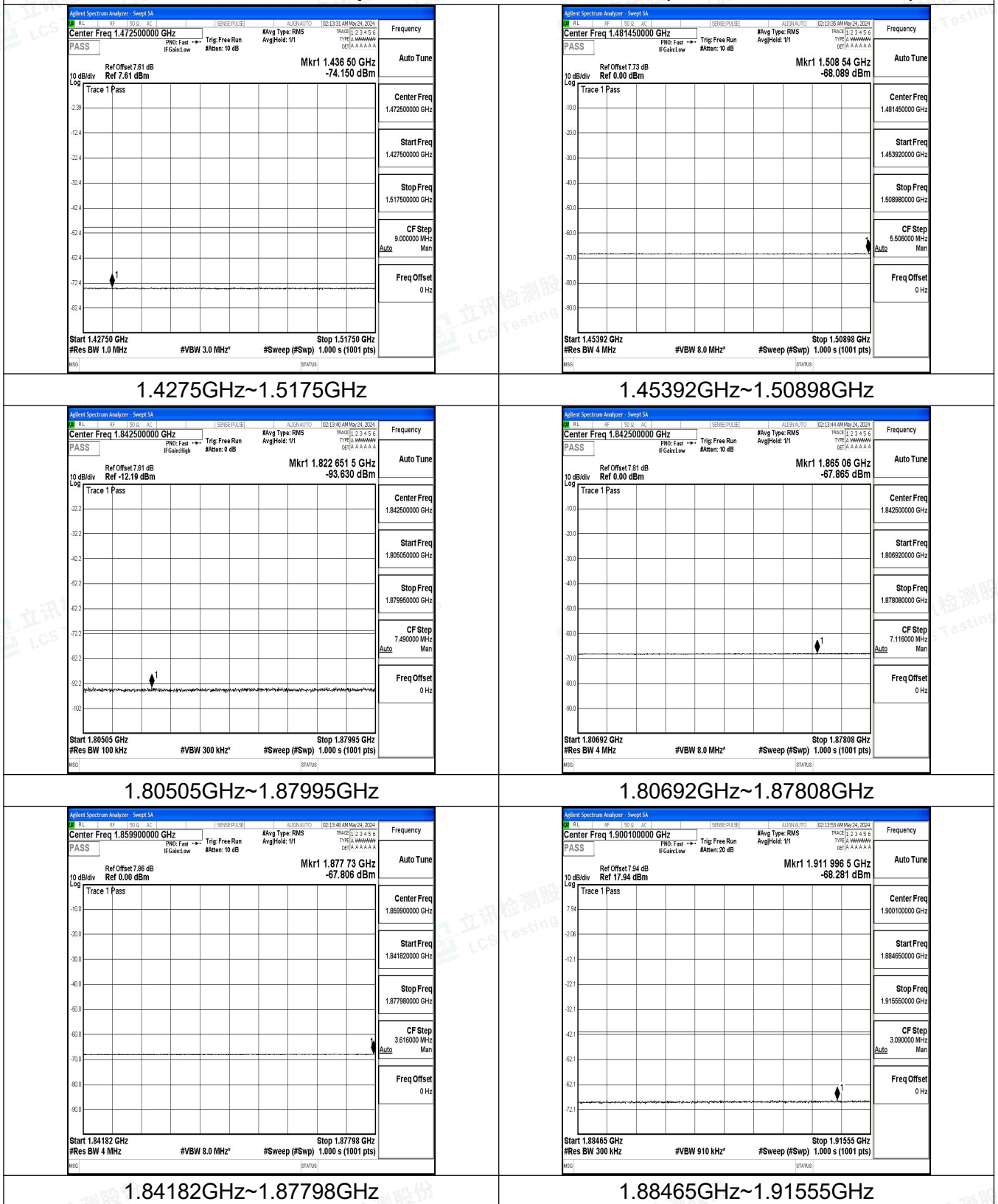
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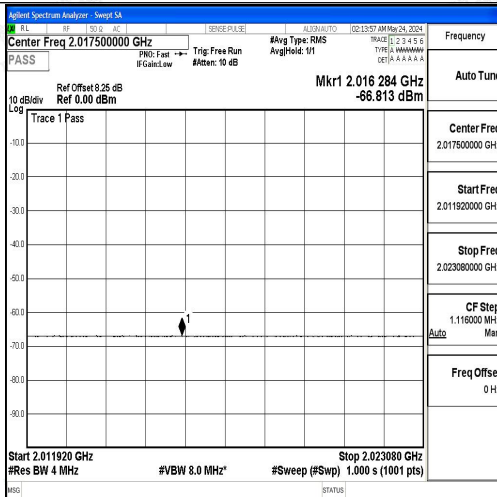
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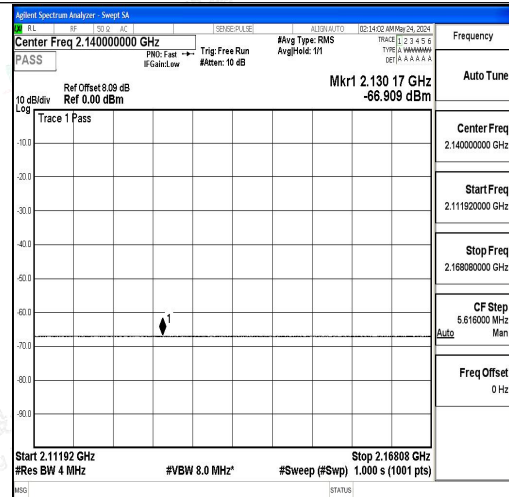


The Worst Test Result of Spurious Emissions for Band I (Middle Channel, Traffic)

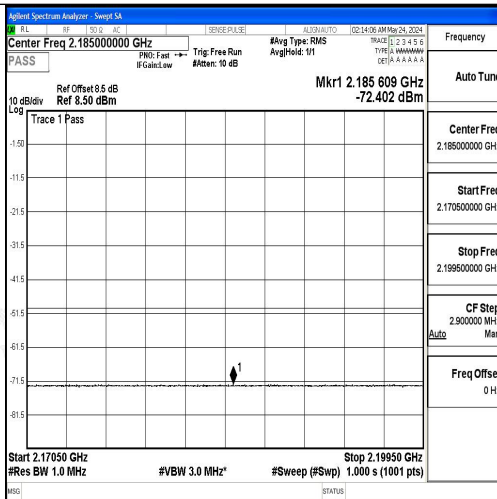


**The Worst Test Result of Spurious Emissions for Band I (Middle Channel, Traffic)**

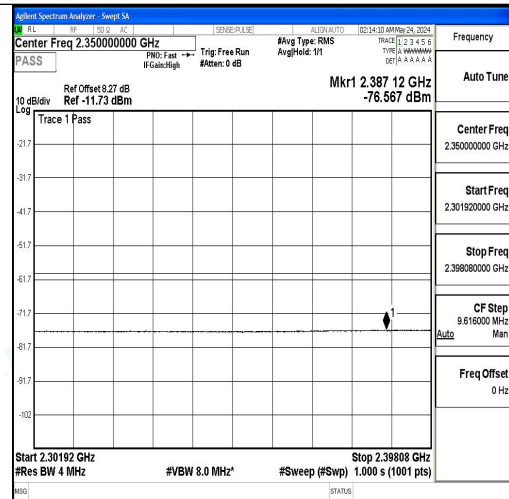
2.01192GHz~2.02308GHz



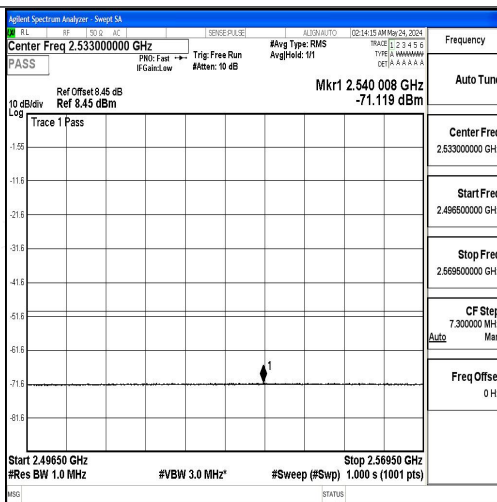
2.11192GHz~2.16808GHz



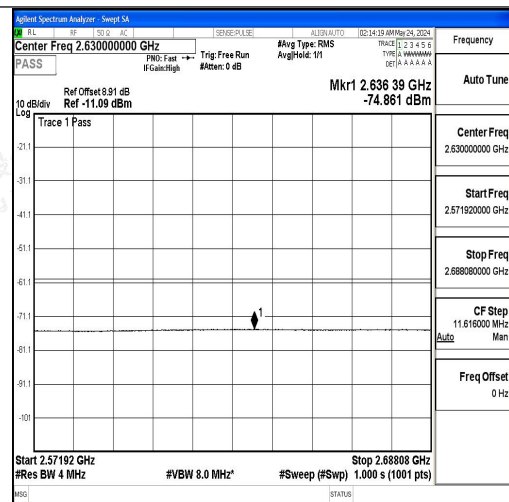
2.1705GHz~2.1995GHz



2.30192GHz~2.39808GHz



2.4965GHz~2.5695GHz



2.57192GHz~2.68808GHz

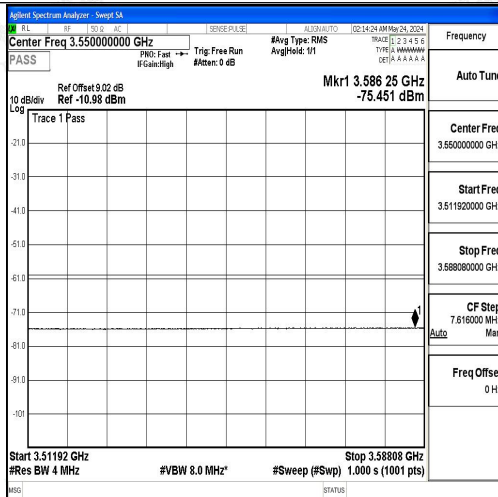


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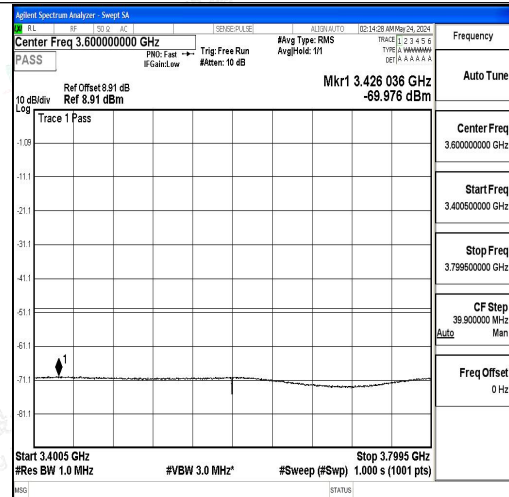
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**The Worst Test Result of Spurious Emissions for Band I (Middle Channel, Traffic)**

3.51192GHz~3.58808GHz

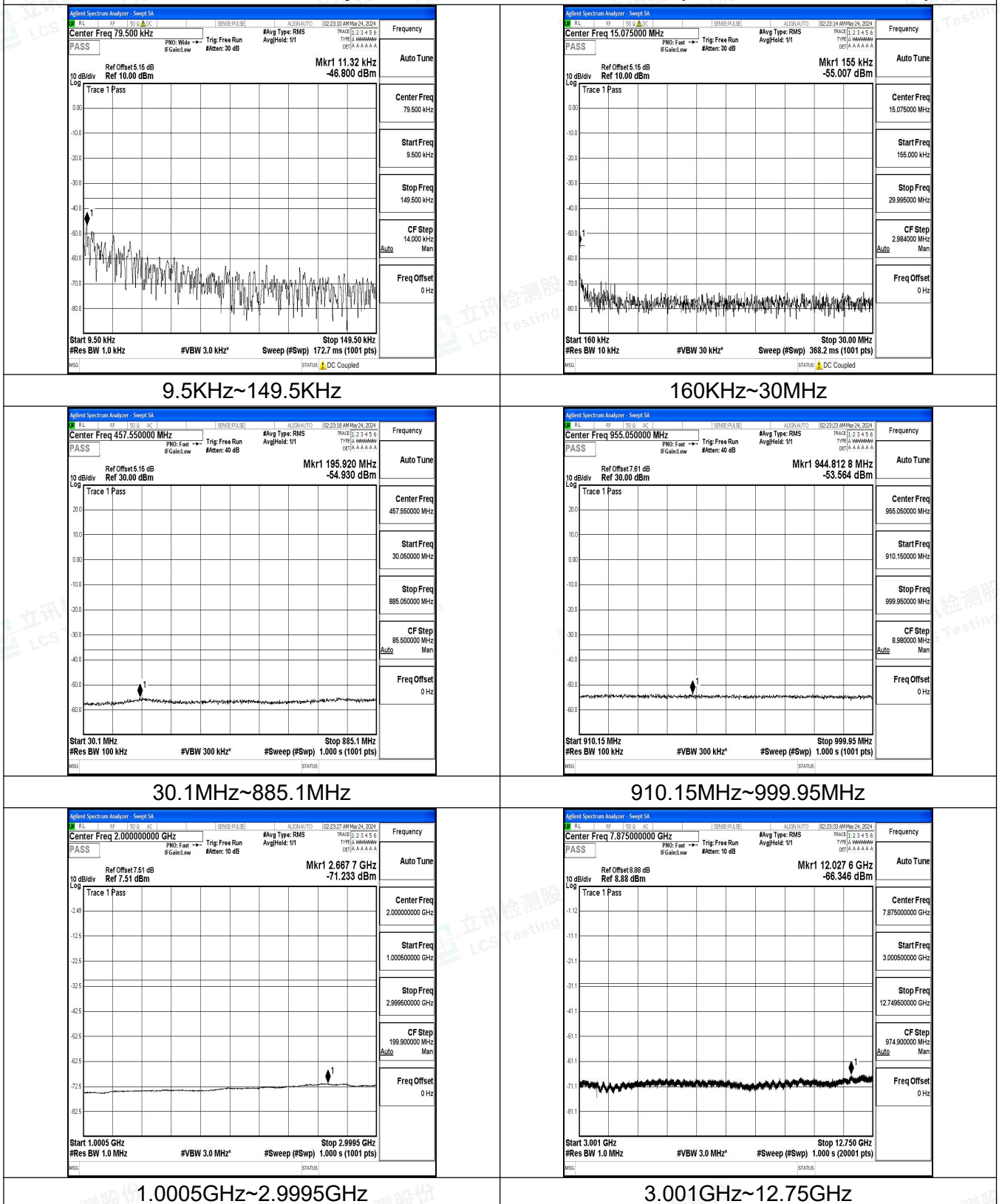


3.4005GHz~3.7995GHz





The Worst Test Result of Spurious Emissions for Band VIII (Middle Channel, Traffic)



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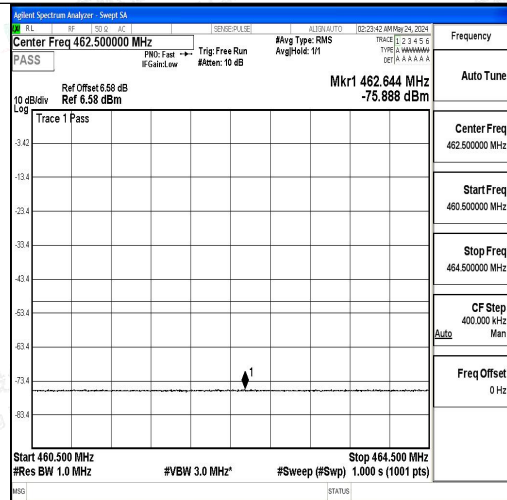
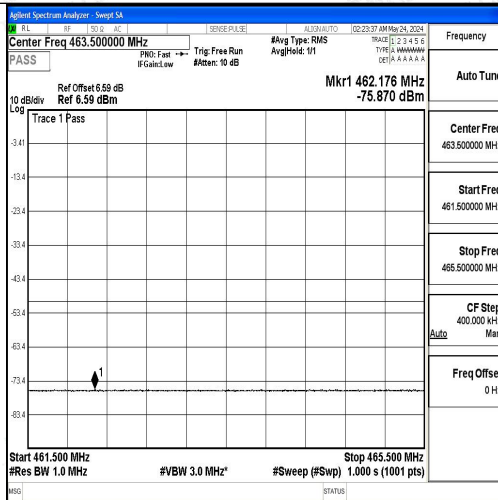
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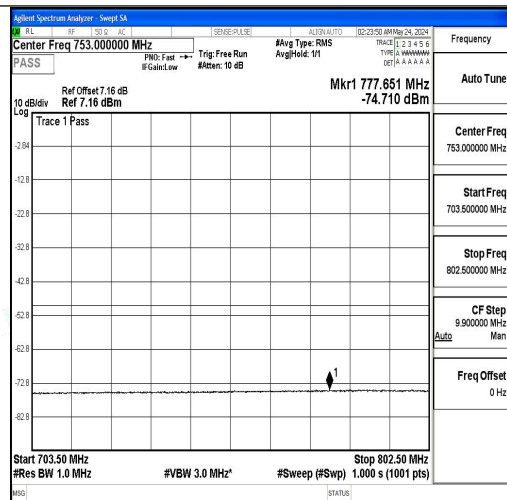
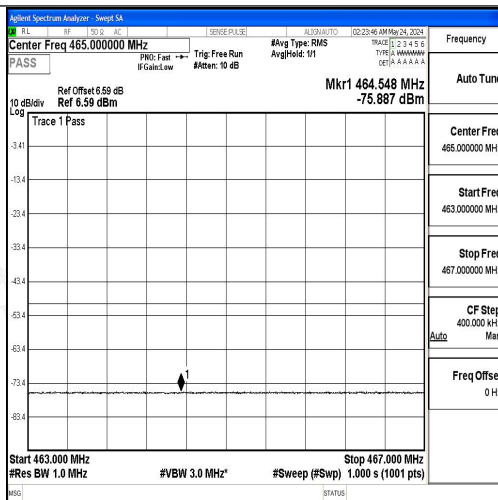


The Worst Test Result of Spurious Emissions for Band VIII (Middle Channel, Traffic)



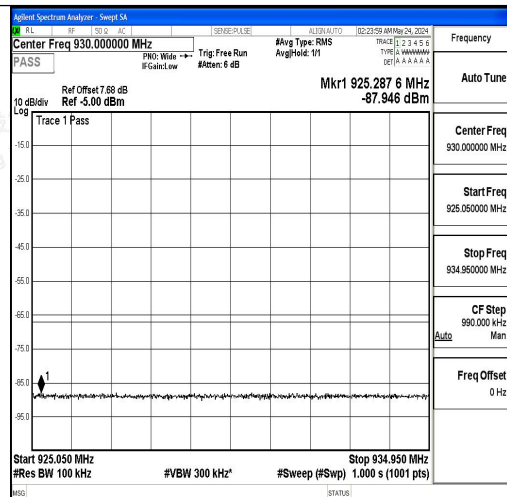
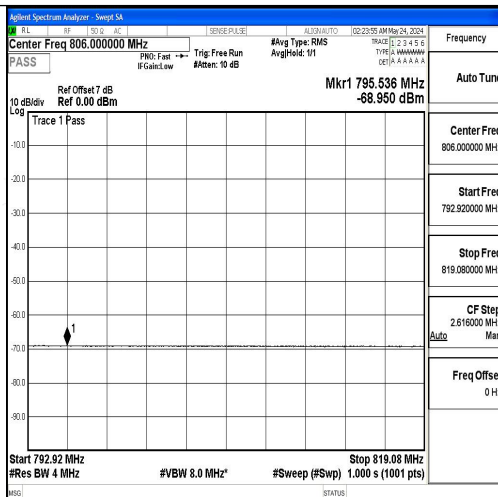
461.5MHz~465.5MHz

460.5MHz~464.5MHz



463MHz~467MHz

703.5MHz~802.5MHz



792.92MHz~819.08MHz

952.05MHz~934.95MHz

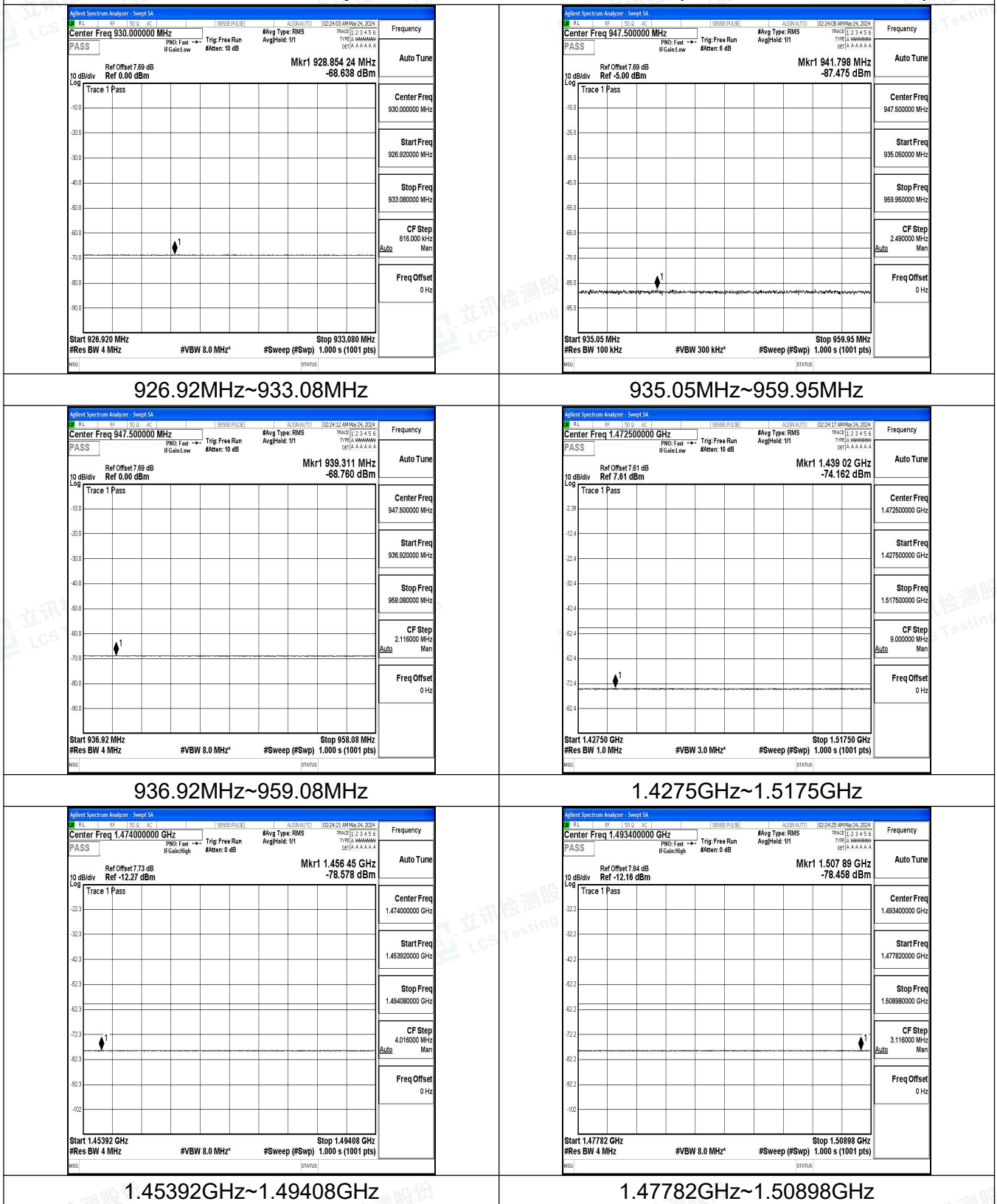


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**The Worst Test Result of Spurious Emissions for Band VIII (Middle Channel, Traffic)**

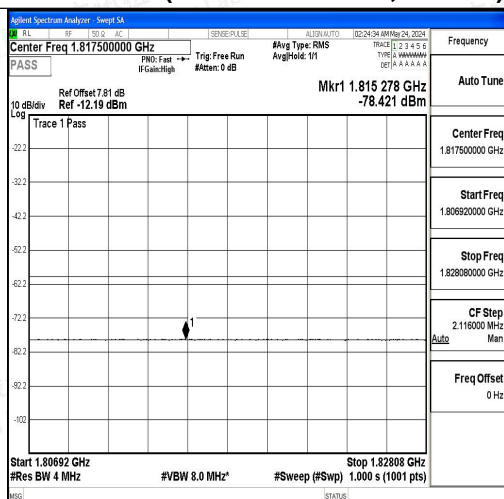
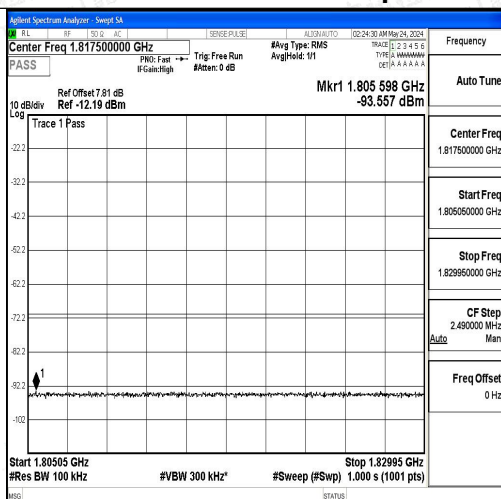
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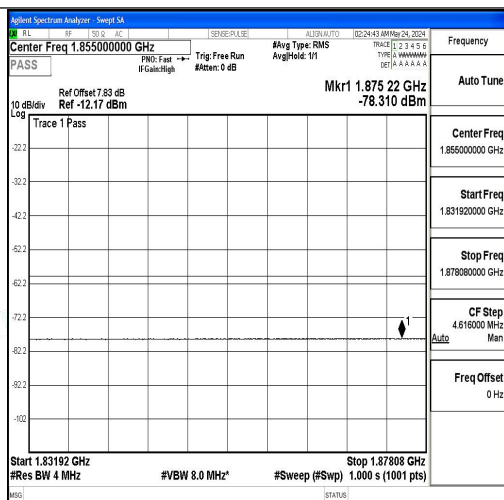
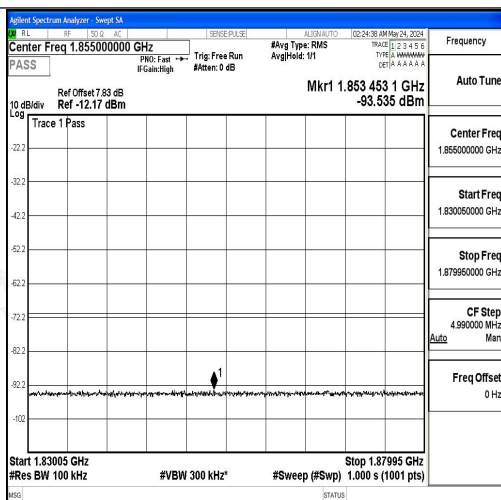
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The Worst Test Result of Spurious Emissions for Band VIII (Middle Channel, Traffic)



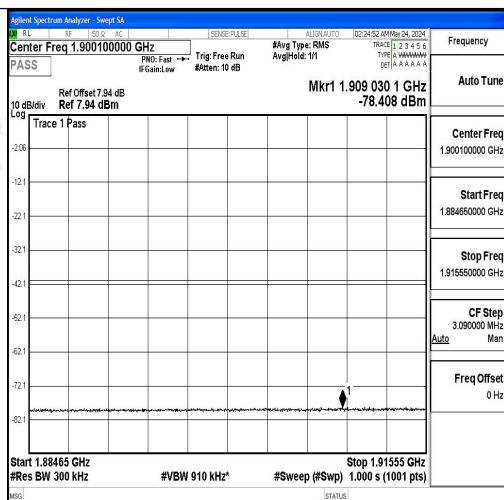
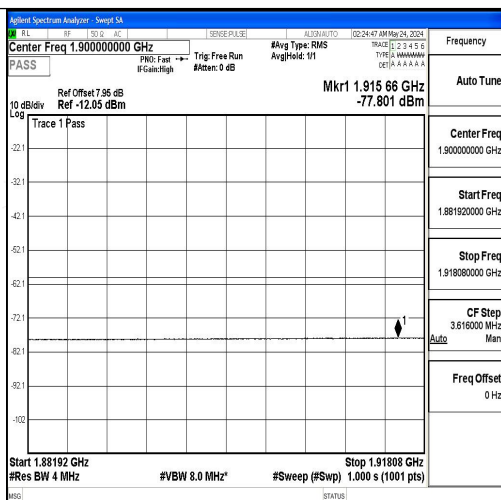
1.80505GHz~1.82995GHz

1.80692GHz~1.82808GHz



1.83005GHz~1.87995GHz

1.83192GHz~1.87808GHz



1.88192GHz~1.91808GHz

1.88465GHz~1.91555GHz

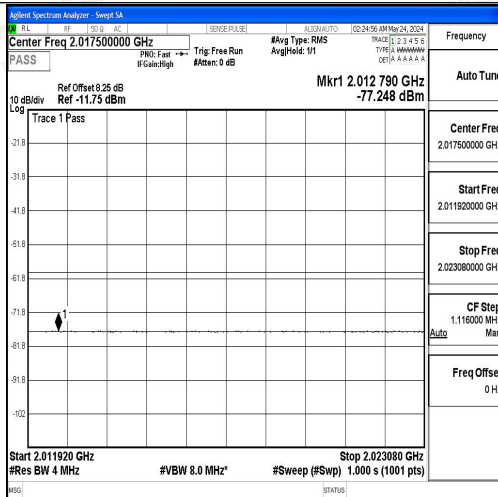


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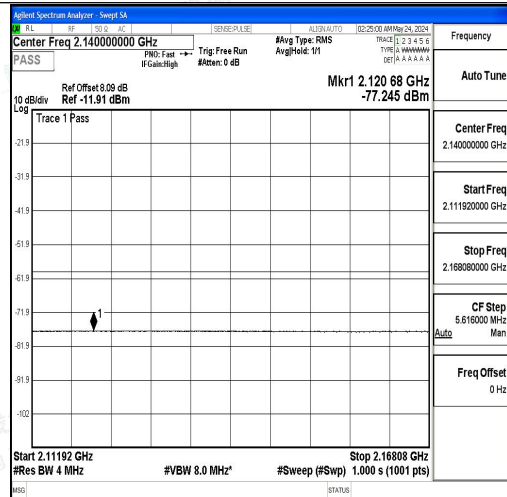
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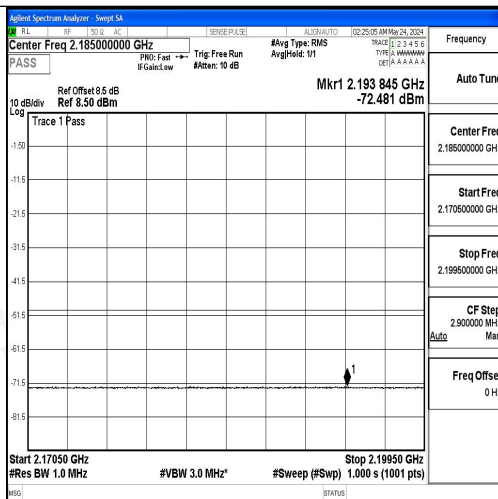
Scan code to check authenticity

**The Worst Test Result of Spurious Emissions for Band VIII (Middle Channel, Traffic)**

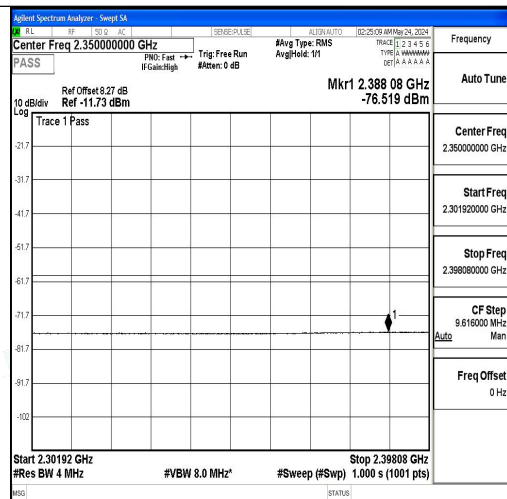
2.01192GHz~2.02308GHz



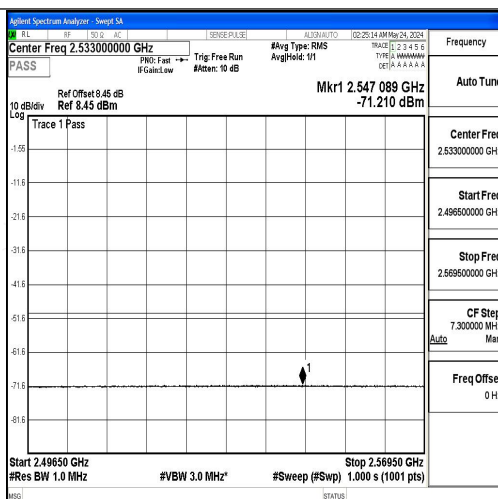
2.11192GHz~2.16808GHz



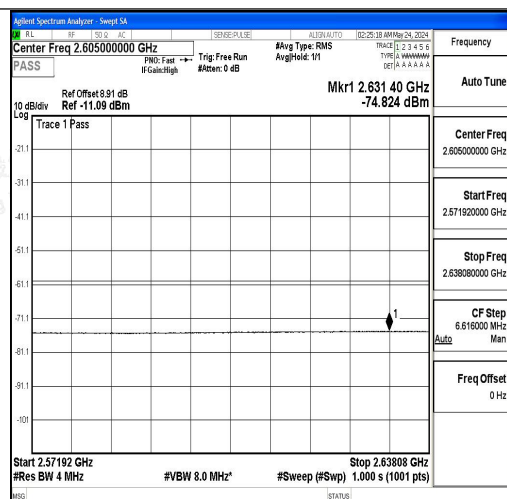
2.1705GHz~2.1995GHz



2.30192GHz~2.39808GHz



2.4965GHz~2.5695GHz



2.57192GHz~2.63808GHz

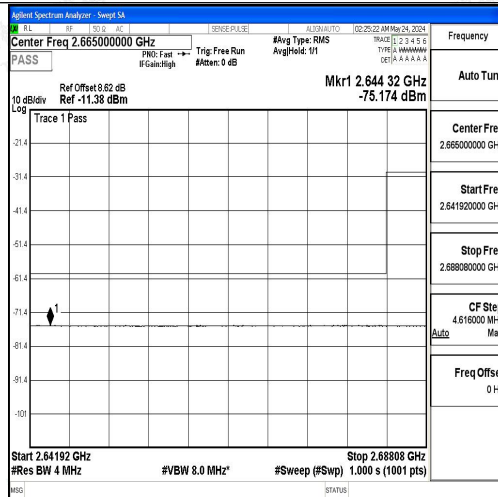


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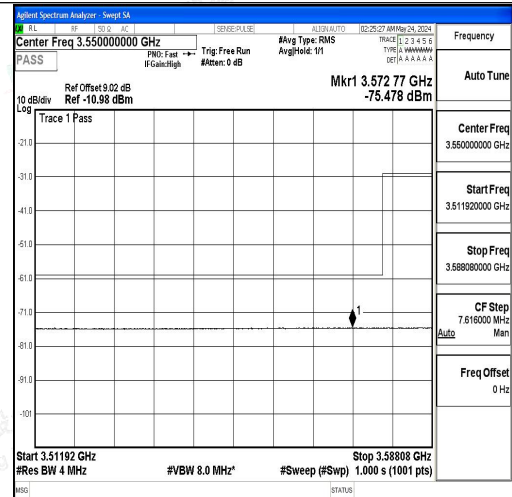
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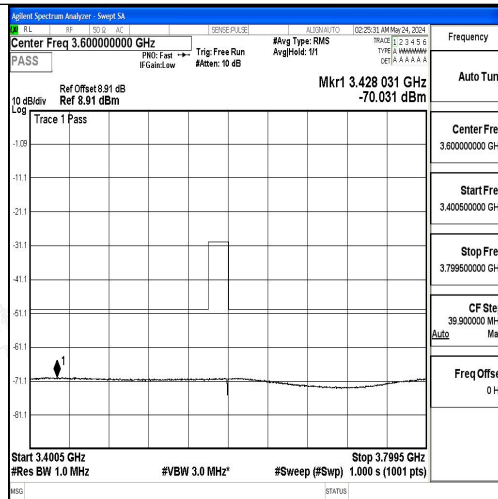
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**The Worst Test Result of Spurious Emissions for Band VIII (Middle Channel, Traffic)**

2.64192GHz~2.68808GHz



3.51192GHz~3.58808GHz



3.4005GHz~3.7995GHz



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Transmitter spurious emissions

Radiated spurious emissions - MS allocated a channel(Worst Case)

| WCDMA Band I: Middle Channel, Normal condition | | | | |
|--|----------------------------|------------|-------------|-------------|
| Frequency (MHz) | Radiated Spurious Emission | | Limit (dBm) | Test Result |
| | Polarization | Level(dBm) | | |
| 50.44 | Horizontal | -71.18 | -36.00 | Pass |
| 970.92 | H | -70.37 | -36.00 | |
| 3821.33 | H | -65.18 | -30.00 | |
| 5732.34 | H | -50.61 | -30.00 | |
| 7644.42 | H | -55.54 | -30.00 | |
| WCDMA Band I: Middle Channel, Normal condition | | | | |
| Frequency (MHz) | Radiated Spurious Emission | | Limit (dBm) | Test Result |
| | Polarization | Level(dBm) | | |
| 50.41 | Vertical | -74.60 | -36.00 | Pass |
| 882.52 | V | -80.45 | -36.00 | |
| 3823.55 | V | -63.96 | -30.00 | |
| 5730.11 | V | -54.95 | -30.00 | |
| 7641.98 | V | -58.24 | -30.00 | |

| WCDMA Band VIII: Middle Channel, Normal condition | | | | |
|---|----------------------------|------------|-------------|-------------|
| Frequency (MHz) | Radiated Spurious Emission | | Limit (dBm) | Test Result |
| | Polarization | Level(dBm) | | |
| 52.16 | Horizontal | -78.89 | -36.00 | Pass |
| 786.55 | H | -78.67 | -36.00 | |
| 1284.00 | H | -66.33 | -30.00 | |
| 2580.38 | H | -55.05 | -30.00 | |
| 3504.17 | H | -59.64 | -30.00 | |
| WCDMA Band VIII: Middle Channel, Normal condition | | | | |
| Frequency (MHz) | Radiated Spurious Emission | | Limit (dBm) | Test Result |
| | Polarization | Level(dBm) | | |
| 56.79 | Vertical | -79.27 | -36.00 | Pass |
| 875.49 | V | -73.27 | -36.00 | |
| 1281.33 | V | -61.66 | -30.00 | |
| 2583.63 | V | -57.39 | -30.00 | |
| 3501.58 | V | -60.44 | -30.00 | |



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Radiated spurious emissions - MS in Idle Mode(Worst Case)

| WCDMA Band I: Middle Channel, Normal condition | | | | |
|--|----------------------------|------------|-------------|-------------|
| Frequency (MHz) | Radiated Spurious Emission | | Limit (dBm) | Test Result |
| | Polarization | Level(dBm) | | |
| 53.31 | Horizontal | -78.00 | -57.00 | Pass |
| 831.91 | H | -78.71 | -57.00 | |
| 1793.24 | H | -63.17 | -47.00 | |
| 2702.41 | H | -55.50 | -47.00 | |
| 3618.59 | H | -55.79 | -47.00 | |
| WCDMA Band I: Middle Channel, Normal condition | | | | |
| Frequency (MHz) | Radiated Spurious Emission | | Limit (dBm) | Test Result |
| | Polarization | Level(dBm) | | |
| 58.27 | Vertical | -79.56 | -57.00 | Pass |
| 859.01 | V | -78.41 | -57.00 | |
| 1792.20 | V | -61.96 | -47.00 | |
| 2704.68 | V | -51.06 | -47.00 | |
| 3620.11 | V | -55.44 | -47.00 | |

| WCDMA Band VIII: Middle Channel, Normal condition | | | | |
|---|----------------------------|------------|-------------|-------------|
| Frequency (MHz) | Radiated Spurious Emission | | Limit (dBm) | Test Result |
| | Polarization | Level(dBm) | | |
| 55.29 | Horizontal | -77.38 | -57.00 | Pass |
| 957.15 | H | -78.63 | -57.00 | |
| 1692.92 | H | -66.53 | -47.00 | |
| 2677.42 | H | -57.86 | -47.00 | |
| 3249.20 | H | -54.21 | -47.00 | |
| WCDMA Band VIII: Middle Channel, Normal condition | | | | |
| Frequency (MHz) | Radiated Spurious Emission | | Limit (dBm) | Test Result |
| | Polarization | Level(dBm) | | |
| 53.52 | Vertical | -79.65 | -57.00 | Pass |
| 966.50 | V | -78.32 | -57.00 | |
| 1692.06 | V | -61.76 | -47.00 | |
| 2672.87 | V | -58.42 | -47.00 | |
| 3248.96 | V | -51.82 | -47.00 | |



-----THE END OF REPORT-----



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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