

S

T

S

L

A

B



RADIO TEST REPORT

Report No.:STS2201154W05

Issued for

SICHUAN AEE AVIATION TECHNOLOGY CO.,LTD.

No. 17, section 3, west section of Changjiang North
Road,Lingang Economic Development Zone,
YibinCity ,SICHUAN,PR.C

| | |
|-----------------------|-----------------|
| Product Name: | MACH6 |
| Brand Name: | AEE |
| Model Name: | X100 |
| Series Model: | N/A |
| FCC ID: | 2AWQGX10001 |
| Test Standard: | FCC Part 15.247 |

Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from STS, all test data presented in this report is only applicable to presented test sample.

Shenzhen STS Test Services Co., Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,
Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com





TEST RESULT CERTIFICATION

Applicant's Name.....: SICHUAN AEE AVIATION TECHNOLOGY CO.,LTD.
Address: No. 17, section 3, west section of Changjiang North Road,Lingang
Economic Development Zone, YibinCity ,SICHUAN,PR.C
Manufacturer's Name: SICHUAN AEE AVIATION TECHNOLOGY CO.,LTD.
Address: No. 17, section 3, west section of Changjiang North Road,Lingang
Economic Development Zone, YibinCity ,SICHUAN,PR.C

Product Description

Product Name.....: MACH6
Brand Name: AEE
Model Name: X100
Series Model.....: N/A

Test Standards.....: FCC Part15.247
Test Procedure: ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document.

Date of Test.....:

Date of receipt of test item: 19 Jan. 2022
Date (s) of performance of tests: 19 Jan. 2022 ~ 09 Apr. 2022
Date of Issue.....: 09 Apr. 2022
Test Result.....: **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Bovey Yang)





Table of Contents

| | |
|--|-----------|
| 1. SUMMARY OF TEST RESULTS | 6 |
| 1.1 TEST FACTORY | 7 |
| 1.2 MEASUREMENT UNCERTAINTY | 7 |
| 2. GENERAL INFORMATION | 8 |
| 2.1 GENERAL DESCRIPTION OF THE EUT | 8 |
| 2.2 DESCRIPTION OF THE TEST MODES | 10 |
| 2.3 TEST SOFTWARE AND POWER LEVEL | 10 |
| 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 10 |
| 2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS | 11 |
| 2.6 EQUIPMENTS LIST | 12 |
| 3. EMC EMISSION TEST | 13 |
| 3.1 CONDUCTED EMISSION MEASUREMENT | 13 |
| 3.2 TEST PROCEDURE | 14 |
| 3.3 TEST SETUP | 14 |
| 3.4 TEST RESULTS | 14 |
| 4. RADIATED EMISSION MEASUREMENT | 15 |
| 4.1 RADIATED EMISSION LIMITS | 15 |
| 4.2 TEST PROCEDURE | 17 |
| 4.3 TEST SETUP | 18 |
| 4.4 EUT OPERATING CONDITIONS | 18 |
| 4.5 FIELD STRENGTH CALCULATION | 19 |
| 4.6 TEST RESULTS | 20 |
| 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION | 27 |
| 5.1 LIMIT | 27 |
| 5.2 TEST PROCEDURE | 27 |
| 5.3 TEST SETUP | 27 |
| 5.4 EUT OPERATION CONDITIONS | 27 |
| 5.5 TEST RESULTS | 28 |
| 6. POWER SPECTRAL DENSITY TEST | 32 |
| 6.1 LIMIT | 32 |
| 6.2 TEST PROCEDURE | 32 |
| 6.3 TEST SETUP | 32 |
| 6.4 EUT OPERATION CONDITIONS | 32 |



Table of Contents

| | |
|----------------------------------|-----------|
| 6.5 TEST RESULTS | 33 |
| 7. BANDWIDTH TEST | 37 |
| 7.1 LIMIT | 37 |
| 7.2 TEST PROCEDURE | 37 |
| 7.3 TEST SETUP | 37 |
| 7.4 EUT OPERATION CONDITIONS | 37 |
| 7.5 TEST RESULTS | 38 |
| 8. PEAK OUTPUT POWER TEST | 40 |
| 8.1 LIMIT | 40 |
| 8.2 TEST PROCEDURE | 40 |
| 8.3 TEST SETUP | 41 |
| 8.4 EUT OPERATION CONDITIONS | 41 |
| 8.5 TEST RESULTS | 42 |
| 9. ANTENNA REQUIREMENT | 43 |
| 9.1 STANDARD REQUIREMENT | 43 |
| 9.2 EUT ANTENNA | 43 |
| 10. EUT TEST PHOTO | 44 |

**Revision History**

| Rev. | Issue Date | Report NO. | Effect Page | Contents |
|------|--------------|---------------|-------------|---------------|
| 00 | 09 Apr. 2022 | STS2201154W05 | ALL | Initial Issue |
| | | | | |





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

| FCC Part 15.247, Subpart C | | | |
|-----------------------------------|---|----------|--------|
| Standard Section | Test Item | Judgment | Remark |
| 15.207 | Conducted Emission | N/A | -- |
| 15.247 (a)(2) | 6dB Bandwidth | PASS | -- |
| 15.247 (b)(3) | Output Power | PASS | -- |
| 15.209 | Radiated Spurious Emission | PASS | -- |
| 15.247 (d) | Conducted Spurious & Band Edge Emission | PASS | -- |
| 15.247 (e) | Power Spectral Density | PASS | -- |
| 15.205 | Restricted bands of operation | PASS | -- |
| Part 15.247(d)/ Part 15.209(a) | Band Edge Emission | PASS | -- |
| 15.203 | Antenna Requirement | PASS | -- |

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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 | RF output power, conducted | $\pm 0.87\text{dB}$ |
| 2 | Unwanted Emissions, conducted | $\pm 2.895\text{dB}$ |
| 3 | All emissions, radiated 9K-30MHz | $\pm 3.80\text{dB}$ |
| 4 | All emissions, radiated 30M-1GHz | $\pm 4.09\text{dB}$ |
| 5 | All emissions, radiated 1G-6GHz | $\pm 4.92\text{dB}$ |
| 6 | All emissions, radiated >6G | $\pm 5.49\text{dB}$ |
| 7 | Conducted Emission (9KHz-30MHz) | $\pm 2.73\text{dB}$ |



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

| | | |
|-------------------------|---|---|
| Product Name | MACH6 | |
| Trade Name | AEE | |
| Model Name | X100 | |
| Series Model | N/A | |
| Model Difference | N/A | |
| Product Description | The EUT is a MACH6 | |
| | Operation Frequency: | 2406-2466 MHz |
| | Modulation Type: | QPSK |
| | Number Of Channel: | 07 |
| | Antenna Designation: | Please refer to the Note 3. |
| | Antenna Gain (dBi) | ANT A: 1.5dBi, ANT B: 1.5dBi MIMO: 4.51dBi |
| Channel List | Please refer to the Note 2. | |
| Adapter | Input: AC 100V~240V Output: 25.2V ~26.1V | |
| Battery | Rated Voltage: 25.2V Capacity: 22000mAh | |
| Hardware version number | V1.4 | |
| Software version number | X100_FC_V1.3.8_20211231 | |
| Connecting I/O Port(s) | Please refer to the Note 1. | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2.

| Channel List | | | | | |
|--------------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01 | 2406 | 02 | 2416 | 03 | 2426 |
| 04 | 2436 | 05 | 2446 | 06 | 2456 |
| 07 | 2466 | | | | |



3. KDB 662911 D01 Multiple Transmitter Output v02r01

2) Directional Gain Calculations for In-Band Measurements

a) Basic methodology with NANT transmit antennas, each with the same directional gain G ANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

(i) If any transmit signals are correlated with each other,

Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi

(ii) If all transmit signals are completely uncorrelated with each other,

Directional gain = G_{ANT}

ANT A: 1.5dBi, ANT B: 1.5dBi

$G_{ANT} + 10 \log(N_{ANT})$ dBi

Directional gain = $1.5 + 10 \log 2 = 4.51$ dBi

Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|------|-------|------------|--------------|-----------|--|------|
| 1 | AEE | X100 | External | N/A | ANT A: 1.5dBi, ANT B: 1.5dBi MIMO: 4.51dBi | ANT |

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions
Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

| Worst Mode | Description | Modulation |
|------------|------------------|------------|
| Mode 1 | TX CH01(2406MHz) | QPSK |
| Mode 2 | TX CH04(2436MHz) | QPSK |
| Mode 3 | TX CH07(2466MHz) | QPSK |

Note:

(1) The battery is fully-charged during the radiated and RF conducted test.

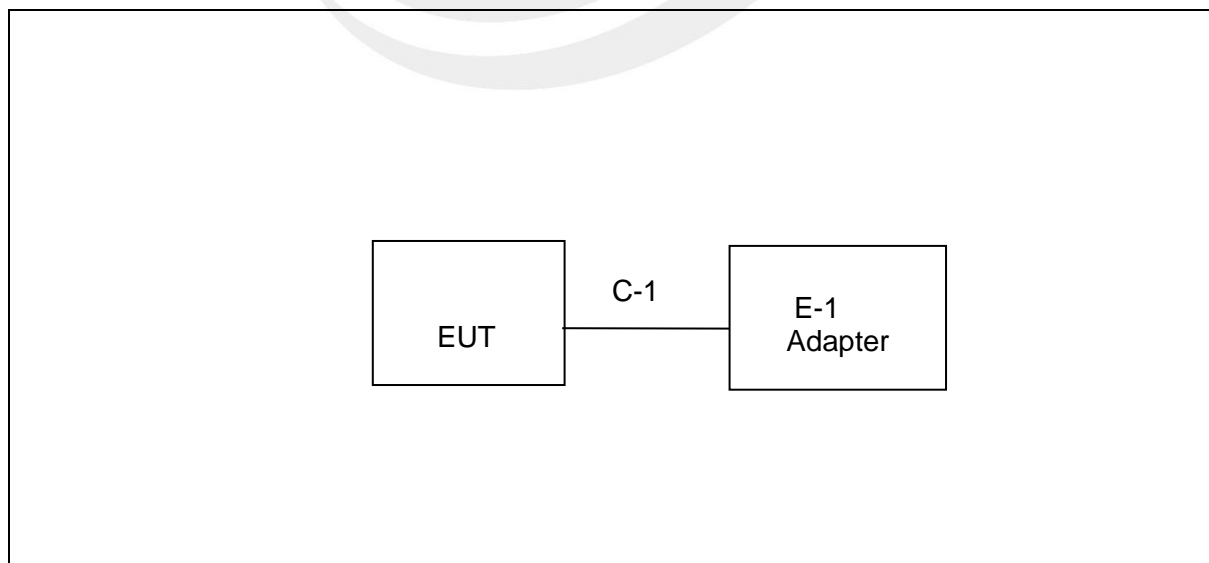
2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

| RF Function | Mode Or Modulation type | ANT Gain(dBi) | Power Class | Software For Testing |
|-------------|-------------------------|--|-------------|--------------------------|
| 2.4G | QPSK | ANT A: 1.5dBi, ANT B: 1.5dBi MIMO: 4.51dBi | Default | Artosyn8020PCTool-v4.4.6 |

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

| Item | Equipment | Mfr/Brand | Model/Type No. | Length | Note |
|------|-----------|-----------|----------------|--------|------|
| N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | |
| | | | | | |
| | | | | | |

Support units

| Item | Equipment | Mfr/Brand | Model/Type No. | Length | Note |
|------|-----------|-----------|----------------|--------|------|
| E-1 | Notebook | DELL | VOSTRO.3800 | N/A | N/A |
| C-1 | USB Cable | N/A | N/A | 120cm | N/A |
| | | | | | |

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.6 EQUIPMENTS LIST

Radiation Test equipment

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|----------------------------------|--------------|----------------------------|--------------|------------------|------------------|
| Test Receiver | R&S | ESCI | 101427 | 2021.09.30 | 2022.09.29 |
| Signal Analyzer | R&S | FSV 40-N | 101823 | 2021.09.30 | 2022.09.29 |
| Active loop Antenna | ZHINAN | ZN30900C | 16035 | 2021.04.11 | 2023.04.10 |
| Bilog Antenna | TESEQ | CBL6111D | 34678 | 2020.10.12 | 2022.10.11 |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 02014 | 2021.10.11 | 2023.10.10 |
| SHF-EHF Horn Antenna (18G-40GHz) | A-INFO | LB-180400-KF | J211020657 | 2020.10.12 | 2022.10.11 |
| Pre-Amplifier (0.1M-3GHz) | EM | EM330 | 060665 | 2021.10.08 | 2022.10.07 |
| Pre-Amplifier (1G-18GHz) | SKET | LNPA-01018G-45 | SK2018080901 | 2021.09.30 | 2022.09.29 |
| Pre-Amplifier (18G-40GHz) | SKET | LNPA-1840-50 | SK2018101801 | 2021.09.28 | 2022.09.27 |
| Temperature & Humidity | HH660 | Mieo | N/A | 2021.10.09 | 2022.10.08 |
| Turn table | EM | SC100_1 | 60531 | N/A | N/A |
| Antenna mast | EM | SC100 | N/A | N/A | N/A |
| Test SW | FARAD | EZ-EMC(Ver.STSLAB-03A1 RE) | | | |

RF Connected Test

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------------------------|--------------|----------------------------|------------|------------------|------------------|
| Power Sensor | Keysight | U2021XA | MY55520005 | 2021.09.30 | 2022.09.29 |
| | | | MY55520006 | 2021.09.30 | 2022.09.29 |
| | | | MY56120038 | 2021.09.30 | 2022.09.29 |
| | | | MY56280002 | 2021.09.30 | 2022.09.29 |
| Signal Analyzer | Agilent | N9020A | MY51110105 | 2022.03.01 | 2023.02.28 |
| Temperature & Humidity | HH660 | Mieo | N/A | 2021.10.09 | 2022.10.08 |
| Test SW | FARAD | EZ-EMC(Ver.STSLAB-03A1 RE) | | | |



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

| FREQUENCY (MHz) | Conducted Emission limit (dBuV) | |
|-----------------|---------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

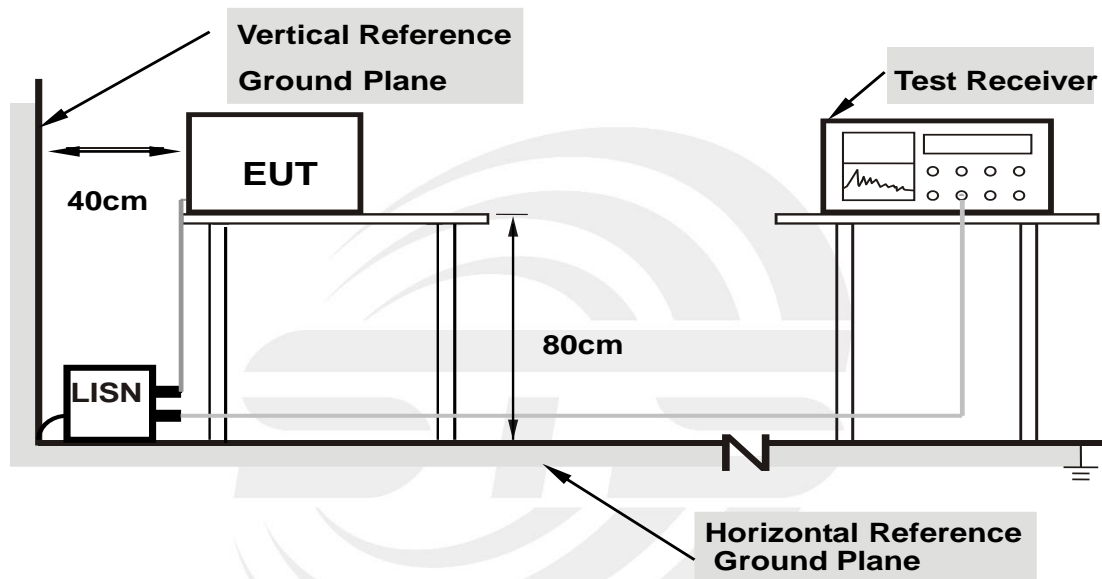
The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 TEST RESULTS

| | | | |
|---------------|-----|--------------------|-----|
| Temperature: | N/A | Relative Humidity: | N/A |
| Test Voltage: | N/A | Phase: | L/N |
| Test Mode: | N/A | | |

Note: The BT function will be disabled (not transmitting) when the EUT is charging, the test is not available.



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | (dBuV/m) (at 3M) | |
|-----------------|------------------|---------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

| FREQUENCY (MHz) | FREQUENCY (MHz) | FREQUENCY (MHz) | FREQUENCY (GHz) |
|-------------------|---------------------|-----------------|-----------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | Above 38.6 |
| 13.36-13.41 | | | |



For Radiated Emission

| Spectrum Parameter | Setting |
|---------------------------------------|---|
| Attenuation | Auto |
| Detector | Peak/QP/AV |
| Start Frequency | 9 KHz/150KHz(Peak/QP/AV) |
| Stop Frequency | 150KHz/30MHz(Peak/QP/AV) |
| RB / VB (emission in restricted band) | 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz) |

| Spectrum Parameter | Setting |
|---------------------------------------|--------------------|
| Attenuation | Auto |
| Detector | Peak/QP |
| Start Frequency | 30 MHz(Peak/QP) |
| Stop Frequency | 1000 MHz (Peak/QP) |
| RB / VB (emission in restricted band) | 120 KHz / 300 KHz |

| Spectrum Parameter | Setting |
|---------------------------------------|---|
| Attenuation | Auto |
| Detector | Peak/AV |
| Start Frequency | 1000 MHz(Peak/AV) |
| Stop Frequency | 10th carrier hamonic(Peak/AV) |
| RB / VB (emission in restricted band) | 1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG) |

For Restricted band

| Spectrum Parameter | Setting |
|----------------------|--|
| Detector | Peak/AV |
| Start/Stop Frequency | Lower Band Edge: 2310 to 2410 MHz Upper Band Edge: 2475 to 2500 MHz |
| RB / VB | 1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG) |



| Receiver Parameter | Setting |
|------------------------|--------------------------------------|
| Start ~ Stop Frequency | 9kHz~90kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 90kHz~110kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 110kHz~490kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 490kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

4.2 TEST PROCEDURE

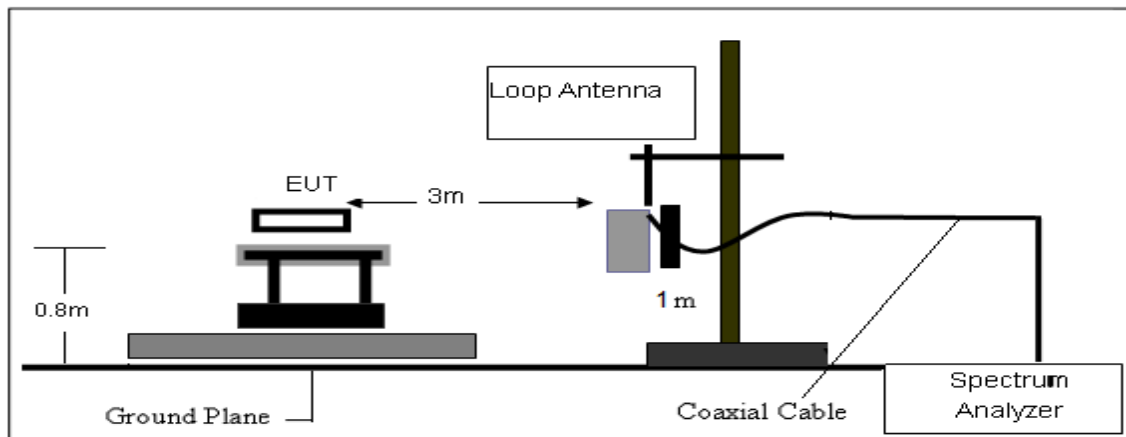
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

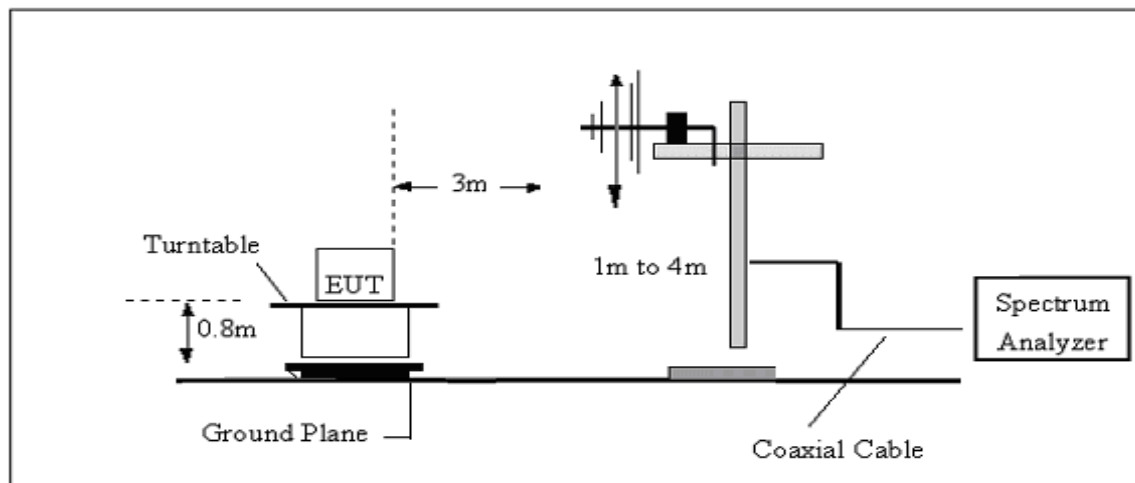
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

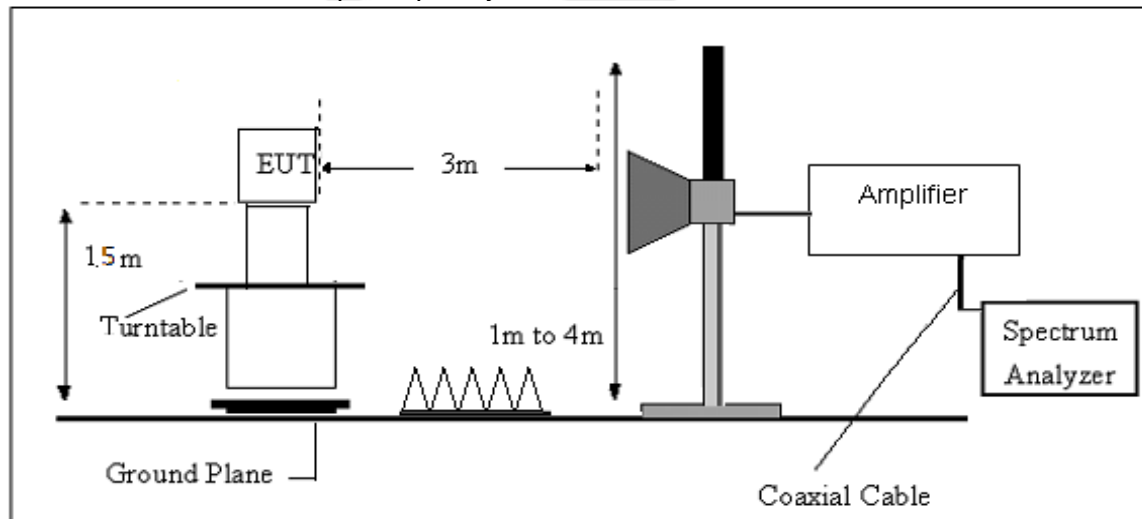
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

| Frequency | FS | RA | AF | CL | AG | Factor |
|-----------|----------|----------|------|------|------|--------|
| (MHz) | (dBμV/m) | (dBμV/m) | (dB) | (dB) | (dB) | (dB) |
| 300 | 40 | 58.1 | 12.2 | 1.6 | 31.9 | -18.1 |

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$





4.6 TEST RESULTS

(Between 9KHz – 30 MHz)

| | | | |
|---------------|----------|--------------------|-------|
| Temperature: | 23.1(C) | Relative Humidity: | 60%RH |
| Test Voltage: | DC 25.2V | Polarization: | -- |
| Test Mode: | TX Mode | | |

| Freq. | Reading | Limit | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| -- | -- | -- | -- | PASS |
| -- | -- | -- | -- | PASS |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



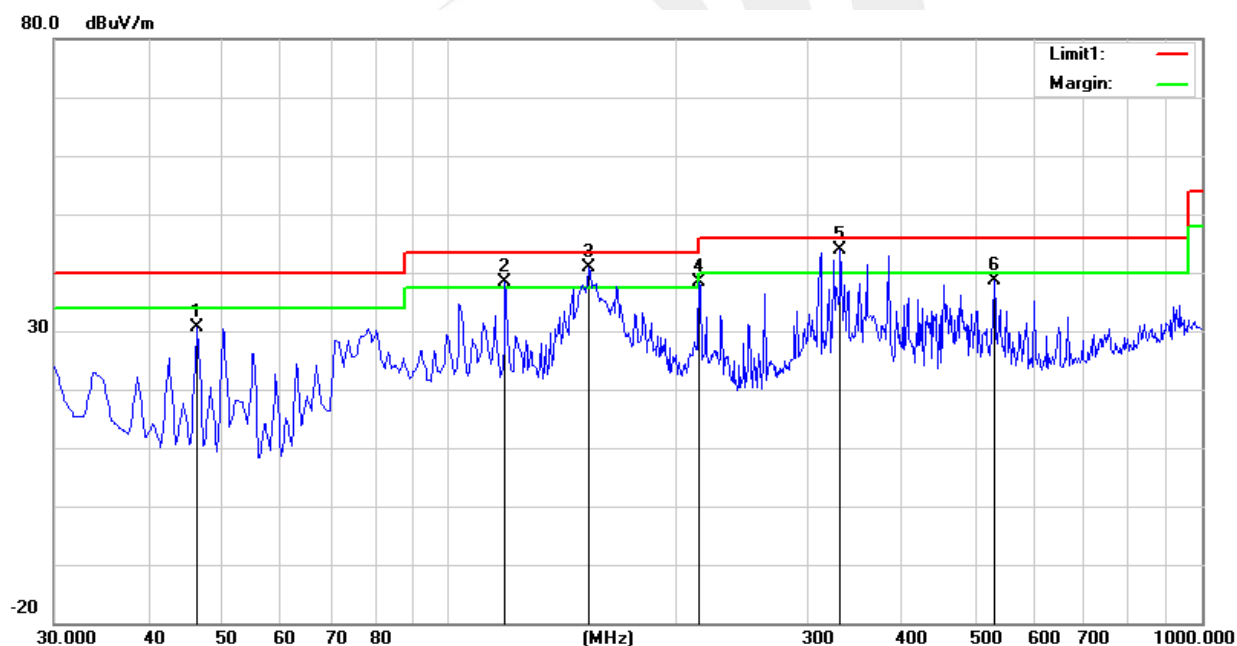
(30MHz -1000MHz)

| | | | |
|---------------|--------------------------------|--------------------|------------|
| Temperature: | 23.1(C) | Relative Humidity: | 60%RH |
| Test Voltage: | DC 25.2V | Phase: | Horizontal |
| Test Mode: | Mode 1/2/3 (Mode 2 worst mode) | | |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/ m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 1 | 46.4900 | 52.14 | -21.41 | 30.73 | 40.00 | -9.27 | peak |
| 2 | 119.2400 | 56.78 | -18.38 | 38.40 | 43.50 | -5.10 | peak |
| 3 | 154.1600 | 59.42 | -18.60 | 40.82 | 43.50 | -2.68 | peak |
| 4 | 215.2700 | 58.48 | -20.17 | 38.31 | 43.50 | -5.19 | peak |
| 5 | 331.6700 | 57.63 | -13.65 | 43.98 | 46.00 | -2.02 | peak |
| 6 | 531.4900 | 46.07 | -7.37 | 38.70 | 46.00 | -7.30 | peak |

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



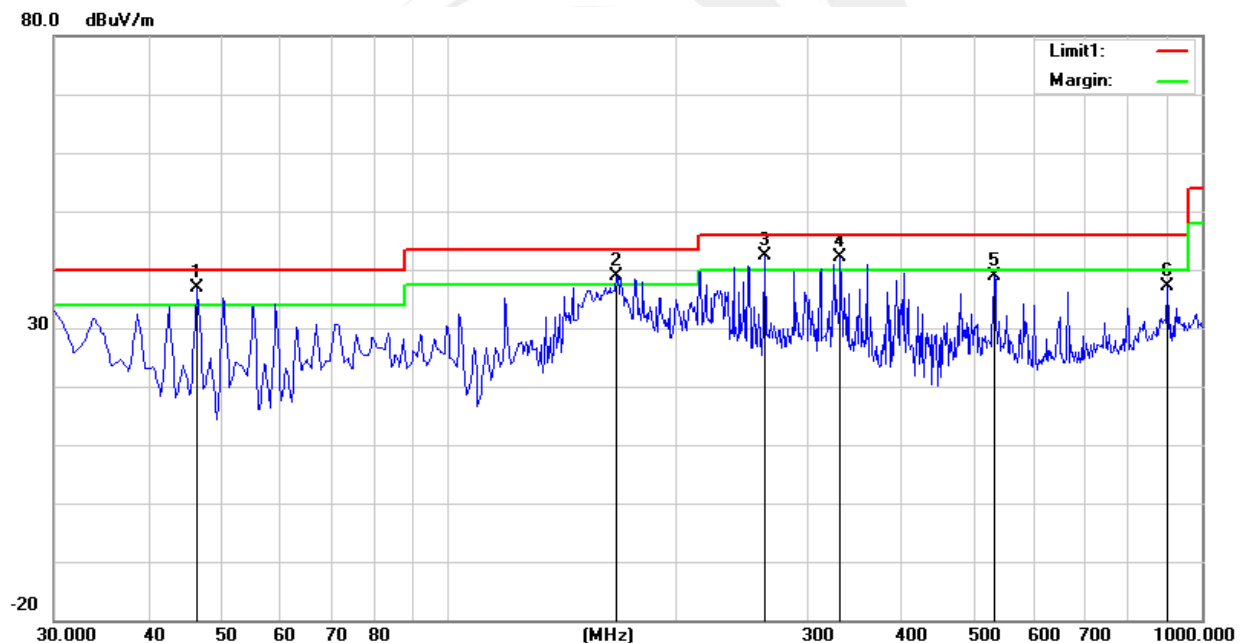


| | | | |
|---------------|--------------------------------|--------------------|----------|
| Temperature: | 23.1(C) | Relative Humidity: | 60%RH |
| Test Voltage: | DC 25.2V | Phase: | Vertical |
| Test Mode: | Mode 1/2/3 (Mode 2 worst mode) | | |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/ m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 1 | 46.4900 | 58.18 | -21.41 | 36.77 | 40.00 | -3.23 | peak |
| 2 | 167.7400 | 58.56 | -19.58 | 38.98 | 43.50 | -4.52 | peak |
| 3 | 263.7700 | 57.20 | -14.75 | 42.45 | 46.00 | -3.55 | peak |
| 4 | 331.6700 | 55.74 | -13.65 | 42.09 | 46.00 | -3.91 | peak |
| 5 | 531.4900 | 46.26 | -7.37 | 38.89 | 46.00 | -7.11 | peak |
| 6 | 901.0600 | 37.44 | -0.43 | 37.01 | 46.00 | -8.99 | peak |

Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain





(1GHz-25GHz) Spurious emission Requirements

| Frequency | Meter Reading | Amplifier | Loss | Antenna Factor | Corrected Factor | Emission Level | Limits | Margin | Detector | Comment |
|--------------------------------|---------------|-----------|-------|----------------|------------------|----------------|----------|--------|----------|------------|
| (MHz) | (dBμV) | (dB) | (dB) | (dB/m) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | Type | |
| Low Channel (2.4G/2406 MHz) | | | | | | | | | | |
| 3256.66 | 62.22 | 44.70 | 6.70 | 28.20 | -9.80 | 52.42 | 74.00 | -21.58 | PK | Vertical |
| 3256.66 | 50.09 | 44.70 | 6.70 | 28.20 | -9.80 | 40.29 | 54.00 | -13.71 | AV | Vertical |
| 3256.58 | 61.10 | 44.70 | 6.70 | 28.20 | -9.80 | 51.30 | 74.00 | -22.70 | PK | Horizontal |
| 3256.58 | 51.13 | 44.70 | 6.70 | 28.20 | -9.80 | 41.33 | 54.00 | -12.67 | AV | Horizontal |
| 4812.48 | 58.13 | 44.20 | 9.04 | 31.60 | -3.56 | 54.57 | 74.00 | -19.43 | PK | Vertical |
| 4812.48 | 50.46 | 44.20 | 9.04 | 31.60 | -3.56 | 46.90 | 54.00 | -7.10 | AV | Vertical |
| 4812.41 | 59.44 | 44.20 | 9.04 | 31.60 | -3.56 | 55.88 | 74.00 | -18.12 | PK | Horizontal |
| 4812.41 | 49.45 | 44.20 | 9.04 | 31.60 | -3.56 | 45.89 | 54.00 | -8.11 | AV | Horizontal |
| 5346.27 | 49.25 | 44.20 | 9.86 | 32.00 | -2.34 | 46.91 | 74.00 | -27.09 | PK | Vertical |
| 5346.27 | 39.31 | 44.20 | 9.86 | 32.00 | -2.34 | 36.97 | 54.00 | -17.03 | AV | Vertical |
| 5346.25 | 47.57 | 44.20 | 9.86 | 32.00 | -2.34 | 45.23 | 74.00 | -28.77 | PK | Horizontal |
| 5346.25 | 38.68 | 44.20 | 9.86 | 32.00 | -2.34 | 36.33 | 54.00 | -17.67 | AV | Horizontal |
| 7217.78 | 54.90 | 43.50 | 11.40 | 35.50 | 3.40 | 58.30 | 74.00 | -15.70 | PK | Vertical |
| 7217.78 | 44.92 | 43.50 | 11.40 | 35.50 | 3.40 | 48.32 | 54.00 | -5.68 | AV | Vertical |
| 7217.84 | 54.86 | 43.50 | 11.40 | 35.50 | 3.40 | 58.26 | 74.00 | -15.74 | PK | Horizontal |
| 7217.84 | 44.34 | 43.50 | 11.40 | 35.50 | 3.40 | 47.74 | 54.00 | -6.26 | AV | Horizontal |
| Middle Channel (2.4G/2436 MHz) | | | | | | | | | | |
| 3263.50 | 61.70 | 44.70 | 6.70 | 28.20 | -9.80 | 51.90 | 74.00 | -22.10 | PK | Vertical |
| 3263.50 | 50.33 | 44.70 | 6.70 | 28.20 | -9.80 | 40.53 | 54.00 | -13.47 | AV | Vertical |
| 3263.35 | 61.80 | 44.70 | 6.70 | 28.20 | -9.80 | 52.00 | 74.00 | -22.00 | PK | Horizontal |
| 3263.35 | 51.24 | 44.70 | 6.70 | 28.20 | -9.80 | 41.44 | 54.00 | -12.56 | AV | Horizontal |
| 4872.35 | 59.57 | 44.20 | 9.04 | 31.60 | -3.56 | 56.01 | 74.00 | -17.99 | PK | Vertical |
| 4872.35 | 50.05 | 44.20 | 9.04 | 31.60 | -3.56 | 46.49 | 54.00 | -7.51 | AV | Vertical |
| 4872.32 | 58.43 | 44.20 | 9.04 | 31.60 | -3.56 | 54.87 | 74.00 | -19.13 | PK | Horizontal |
| 4872.32 | 49.49 | 44.20 | 9.04 | 31.60 | -3.56 | 45.93 | 54.00 | -8.07 | AV | Horizontal |
| 5357.58 | 49.07 | 44.20 | 9.86 | 32.00 | -2.34 | 46.72 | 74.00 | -27.28 | PK | Vertical |
| 5357.58 | 40.16 | 44.20 | 9.86 | 32.00 | -2.34 | 37.82 | 54.00 | -16.18 | AV | Vertical |
| 5357.64 | 48.13 | 44.20 | 9.86 | 32.00 | -2.34 | 45.79 | 74.00 | -28.21 | PK | Horizontal |
| 5357.64 | 38.64 | 44.20 | 9.86 | 32.00 | -2.34 | 36.30 | 54.00 | -17.70 | AV | Horizontal |
| 7307.78 | 54.29 | 43.50 | 11.40 | 35.50 | 3.40 | 57.69 | 74.00 | -16.31 | PK | Vertical |
| 7307.78 | 43.75 | 43.50 | 11.40 | 35.50 | 3.40 | 47.15 | 54.00 | -6.85 | AV | Vertical |
| 7307.80 | 53.48 | 43.50 | 11.40 | 35.50 | 3.40 | 56.88 | 74.00 | -17.12 | PK | Horizontal |
| 7307.80 | 44.95 | 43.50 | 11.40 | 35.50 | 3.40 | 48.35 | 54.00 | -5.65 | AV | Horizontal |



| High Channel (2.4G/2466 MHz) | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|----|------------|
| 3269.91 | 61.10 | 44.70 | 6.70 | 28.20 | -9.80 | 51.30 | 74.00 | -22.70 | PK | Vertical |
| 3269.91 | 50.65 | 44.70 | 6.70 | 28.20 | -9.80 | 40.85 | 54.00 | -13.15 | AV | Vertical |
| 3270.00 | 61.88 | 44.70 | 6.70 | 28.20 | -9.80 | 52.08 | 74.00 | -21.92 | PK | Horizontal |
| 3270.00 | 49.92 | 44.70 | 6.70 | 28.20 | -9.80 | 40.12 | 54.00 | -13.88 | AV | Horizontal |
| 4932.32 | 58.22 | 44.20 | 9.04 | 31.60 | -3.56 | 54.66 | 74.00 | -19.34 | PK | Vertical |
| 4932.32 | 50.38 | 44.20 | 9.04 | 31.60 | -3.56 | 46.82 | 54.00 | -7.18 | AV | Vertical |
| 4932.53 | 58.73 | 44.20 | 9.04 | 31.60 | -3.56 | 55.17 | 74.00 | -18.83 | PK | Horizontal |
| 4932.53 | 49.80 | 44.20 | 9.04 | 31.60 | -3.56 | 46.24 | 54.00 | -7.76 | AV | Horizontal |
| 5368.43 | 48.74 | 44.20 | 9.86 | 32.00 | -2.34 | 46.40 | 74.00 | -27.60 | PK | Vertical |
| 5368.43 | 39.87 | 44.20 | 9.86 | 32.00 | -2.34 | 37.52 | 54.00 | -16.48 | AV | Vertical |
| 5368.56 | 47.53 | 44.20 | 9.86 | 32.00 | -2.34 | 45.18 | 74.00 | -28.82 | PK | Horizontal |
| 5368.56 | 38.31 | 44.20 | 9.86 | 32.00 | -2.34 | 35.97 | 54.00 | -18.03 | AV | Horizontal |
| 7397.73 | 54.07 | 43.50 | 11.40 | 35.50 | 3.40 | 57.47 | 74.00 | -16.53 | PK | Vertical |
| 7397.73 | 44.22 | 43.50 | 11.40 | 35.50 | 3.40 | 47.62 | 54.00 | -6.38 | AV | Vertical |
| 7397.73 | 53.87 | 43.50 | 11.40 | 35.50 | 3.40 | 57.27 | 74.00 | -16.73 | PK | Horizontal |
| 7397.73 | 44.53 | 43.50 | 11.40 | 35.50 | 3.40 | 47.93 | 54.00 | -6.07 | AV | Horizontal |

Note:

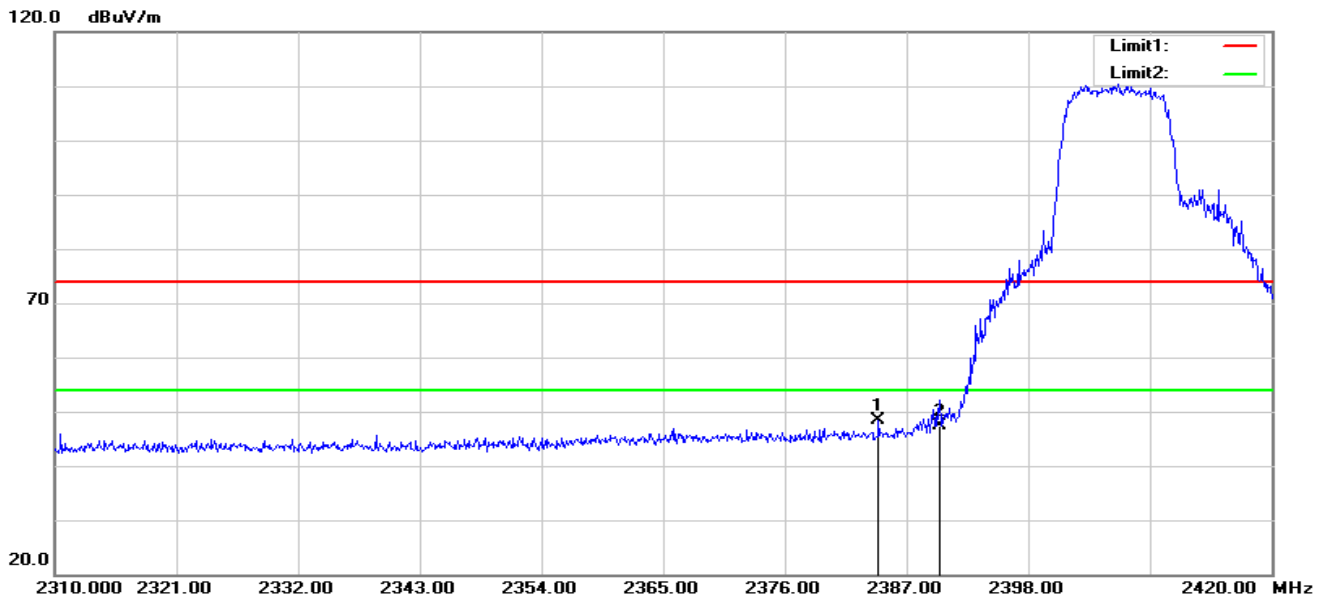
1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

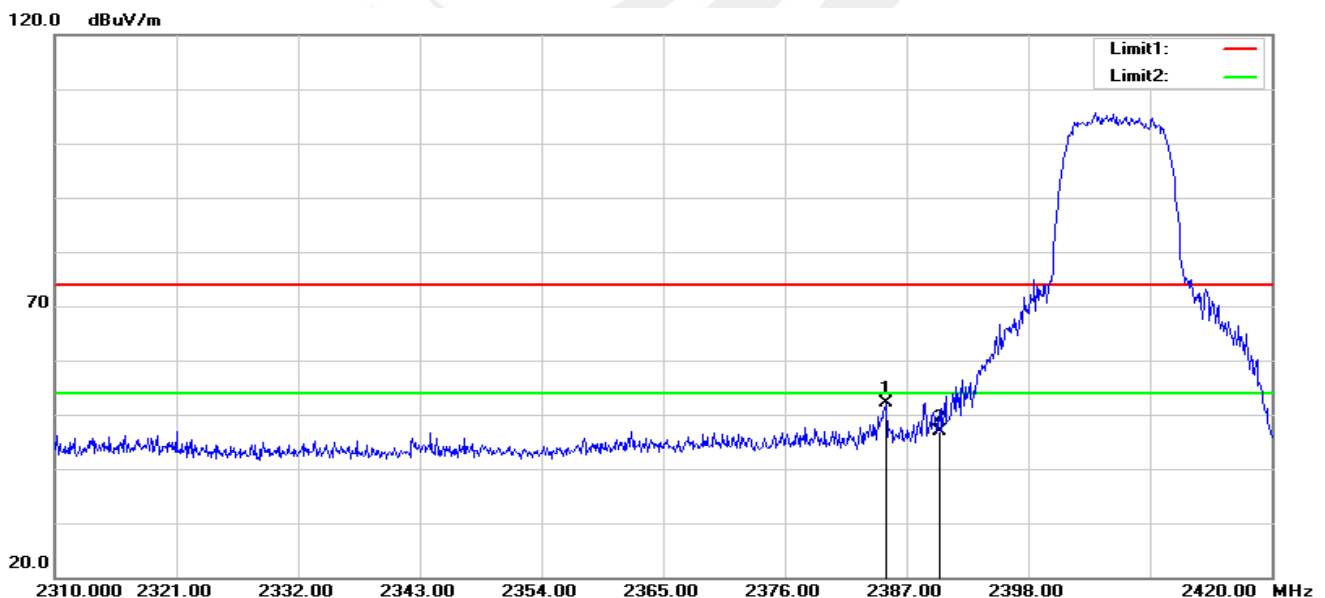


4.6 TEST RESULTS (Restricted Bands Requirements)

Low
Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 2384.470 | 44.04 | 4.26 | 48.30 | 74.00 | -25.70 | peak |
| 2 | 2390.000 | 43.11 | 4.34 | 47.45 | 74.00 | -26.55 | peak |

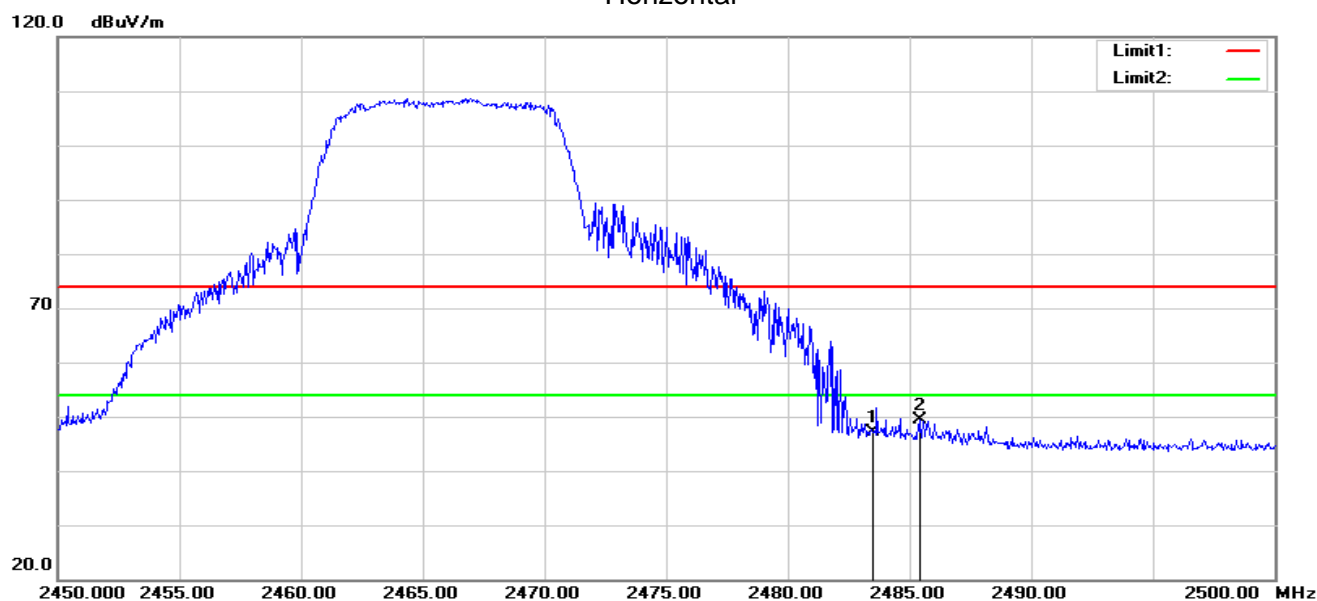
Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 2385.130 | 47.86 | 4.27 | 52.13 | 74.00 | -21.87 | peak |
| 2 | 2390.000 | 42.65 | 4.34 | 46.99 | 74.00 | -27.01 | peak |

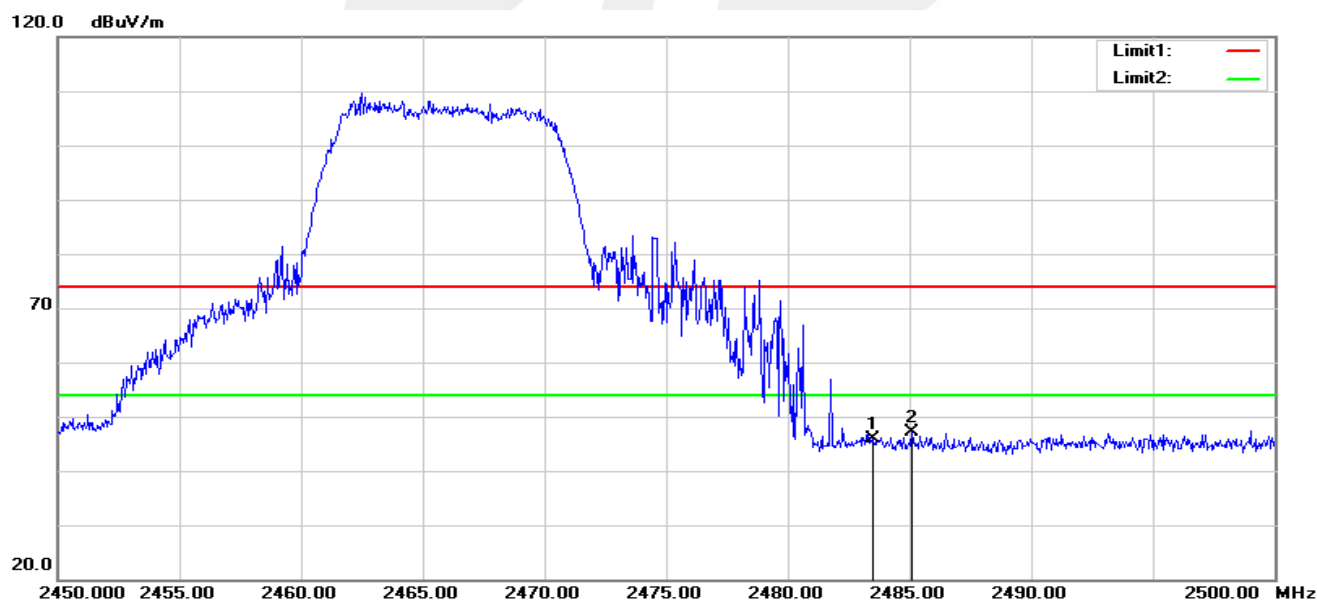


High Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 42.46 | 4.60 | 47.06 | 74.00 | -26.94 | peak |
| 2 | 2485.450 | 44.68 | 4.61 | 49.29 | 74.00 | -24.71 | peak |

Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 2483.500 | 41.29 | 4.60 | 45.89 | 74.00 | -28.11 | peak |
| 2 | 2485.100 | 42.40 | 4.61 | 47.01 | 74.00 | -26.99 | peak |

5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

| Spectrum Parameter | Setting |
|---------------------------------------|---------------------------------|
| Detector | Peak |
| Start/Stop Frequency | 30 MHz to 10th carrier harmonic |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz |
| Trace-Mode: | Max hold |

For Band edge

| Spectrum Parameter | Setting |
|---------------------------------------|--|
| Detector | Peak |
| Start/Stop Frequency | Lower Band Edge: 2300 – 2407 MHz Upper Band Edge: 2475 – 2500 MHz |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz |
| Trace-Mode: | Max hold |

5.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.



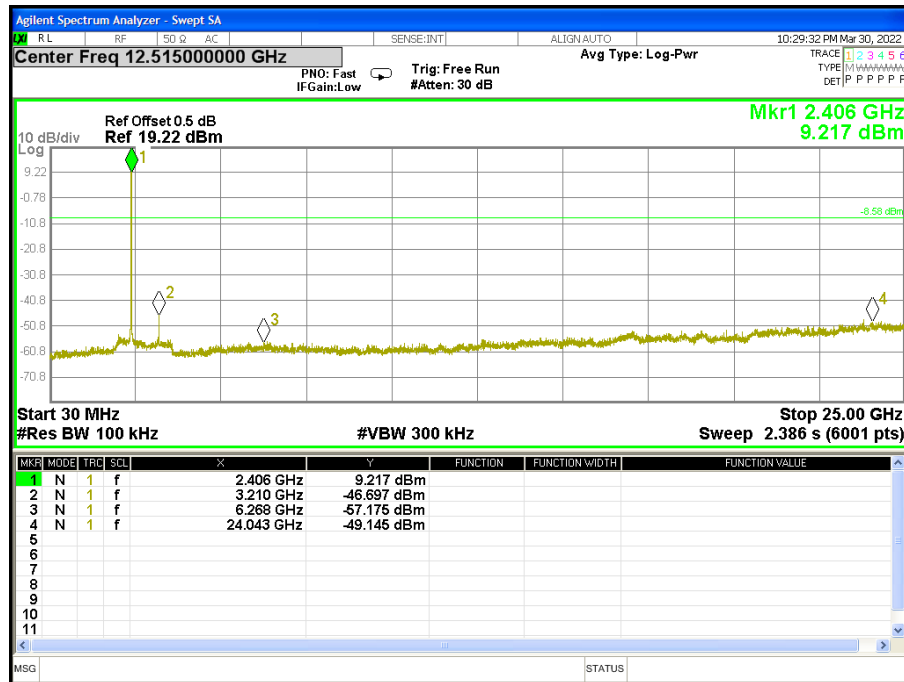
5.5 TEST RESULTS

Note: ANT B Power > ANT A Power, Both ANT A and B have been test, Only show the worst data of ANT B

| | | | |
|---------------|----------|--------------------|---------------------------|
| Temperature: | 25 °C | Relative Humidity: | 50% |
| Test Voltage: | DC 25.2V | Test Mode: | TX Mode /CH01, CH04, CH06 |

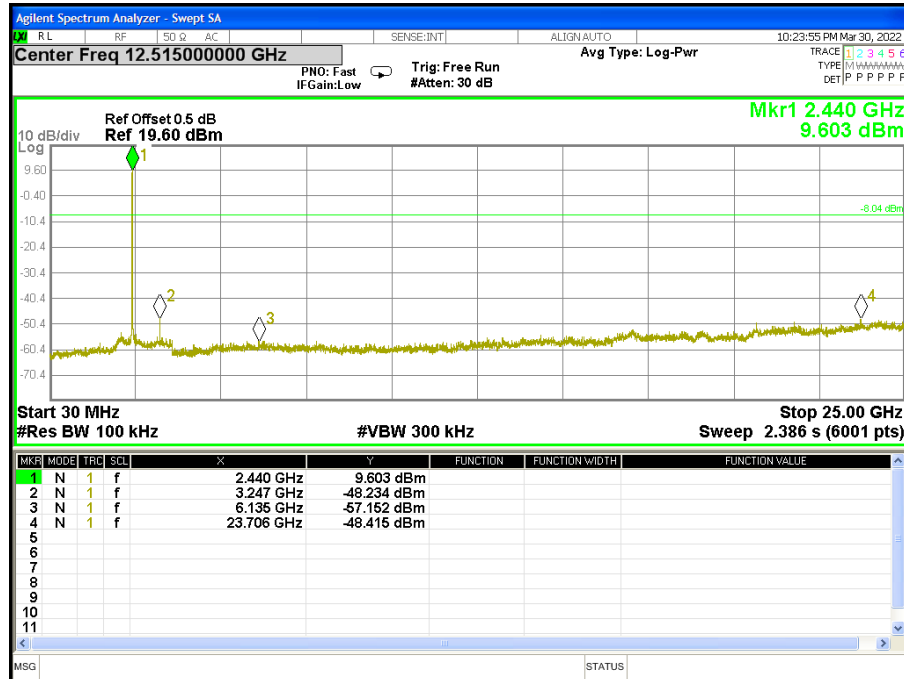
ANT B

01 CH

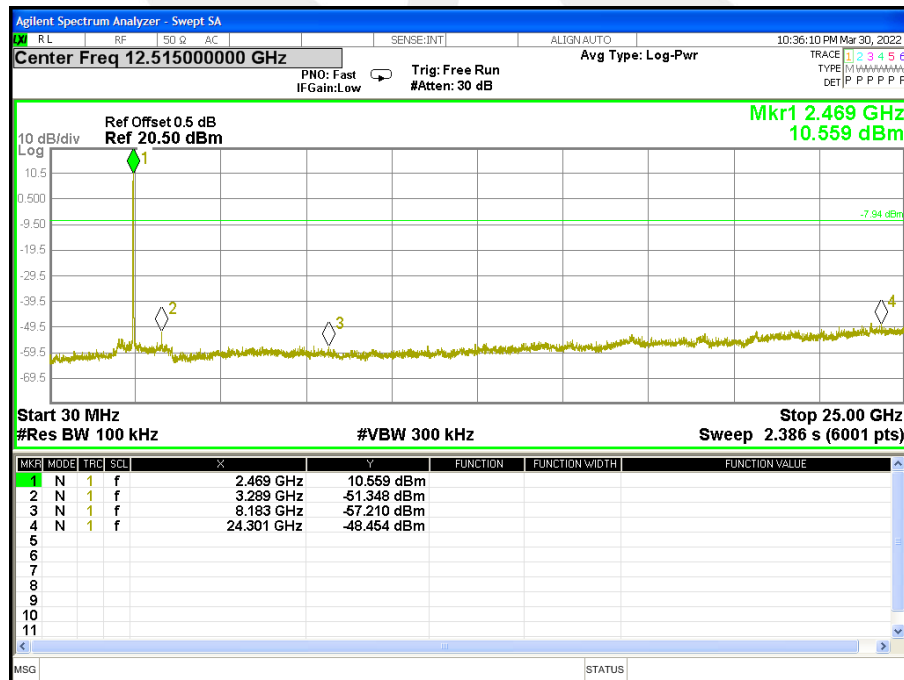




04 CH



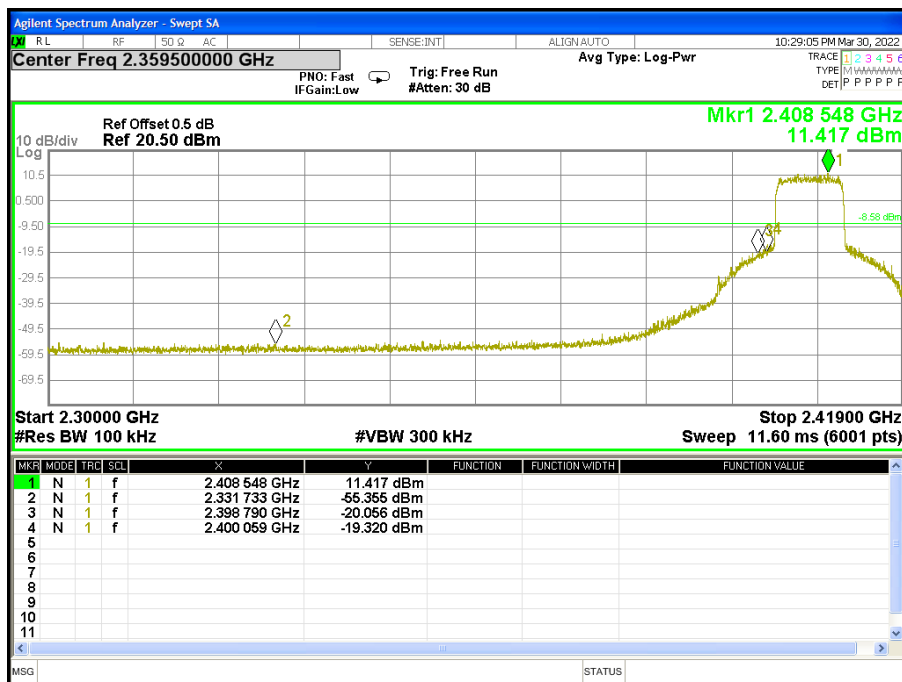
06 CH



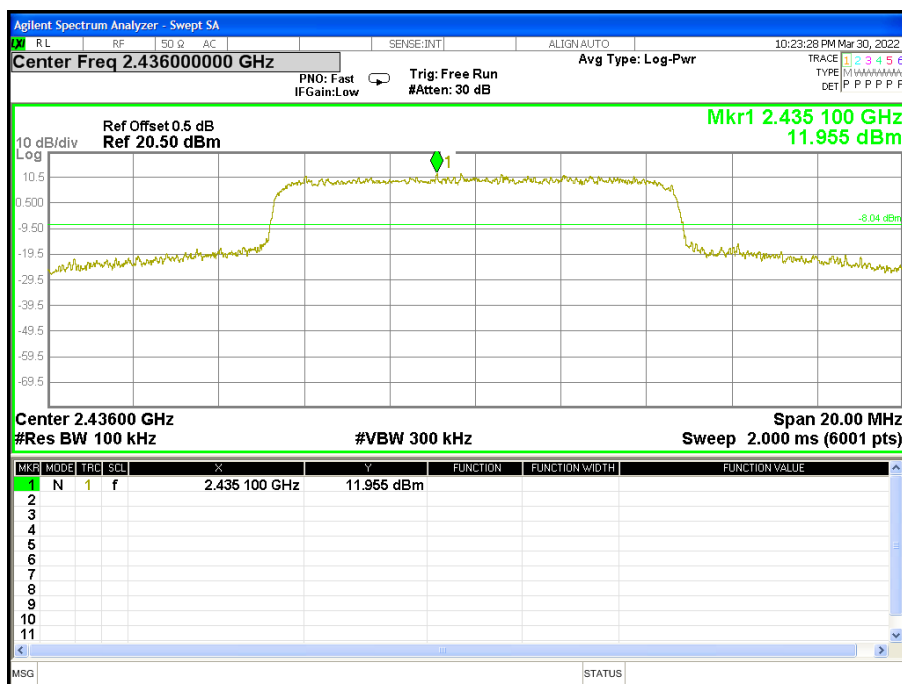


For Band edge(it's also the reference level for conducted spurious emission)

01 CH

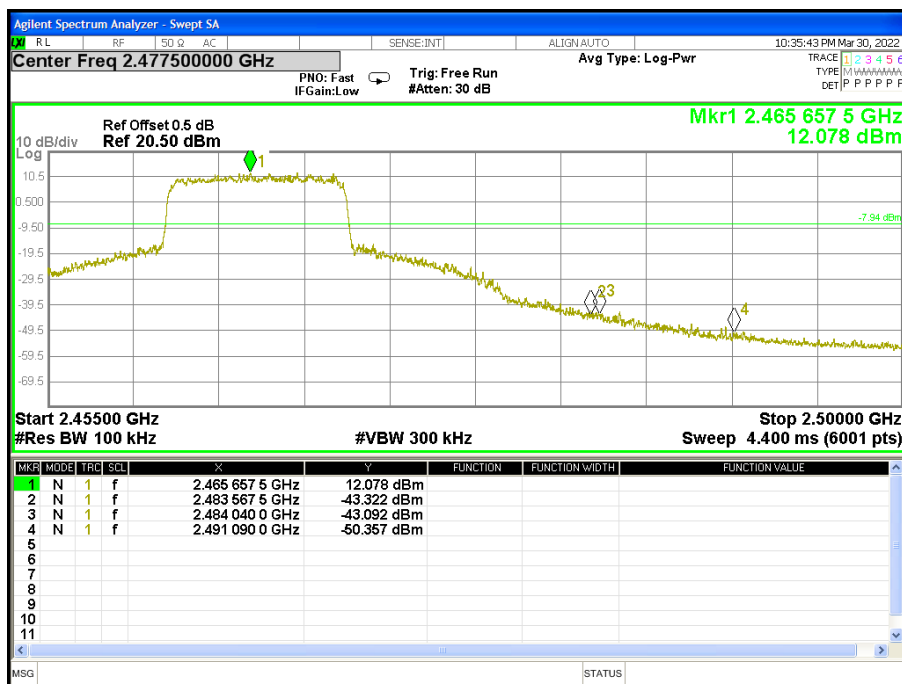


04 CH





06 CH





6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

| FCC Part 15.247, Subpart C | | | | |
|----------------------------|------------------------|------------------------------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(e) | Power Spectral Density | ≤ 8 dBm (RBW ≥ 3 KHz) | 2400-2483.5 | PASS |

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

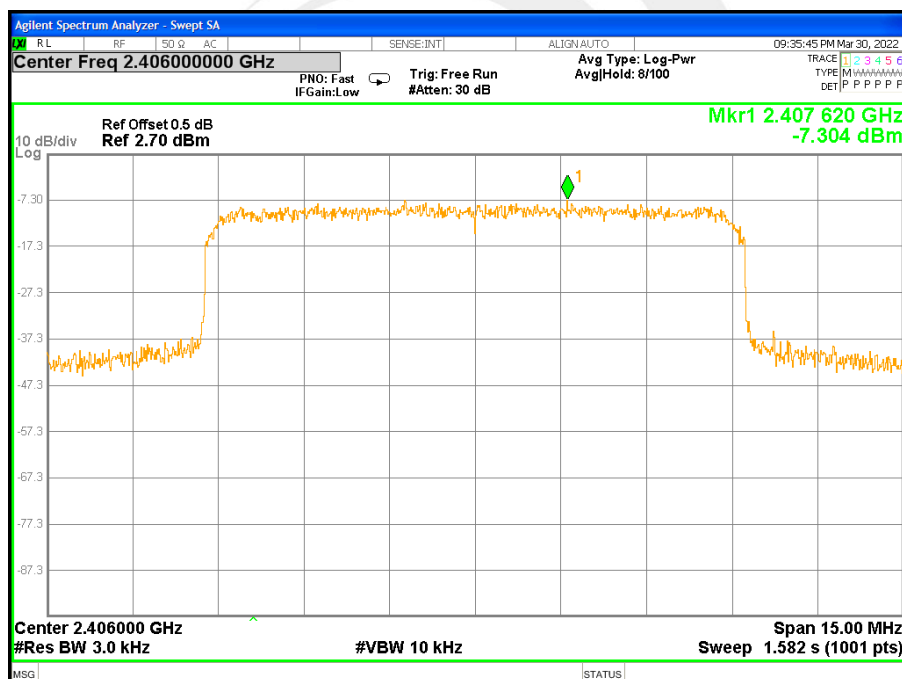


6.5 TEST RESULTS

| | | | |
|---------------|----------|--------------------|---------------------------|
| Temperature: | 25 °C | Relative Humidity: | 60% |
| Test Voltage: | DC 25.2V | Test Mode: | TX Mode /CH01, CH04, CH06 |

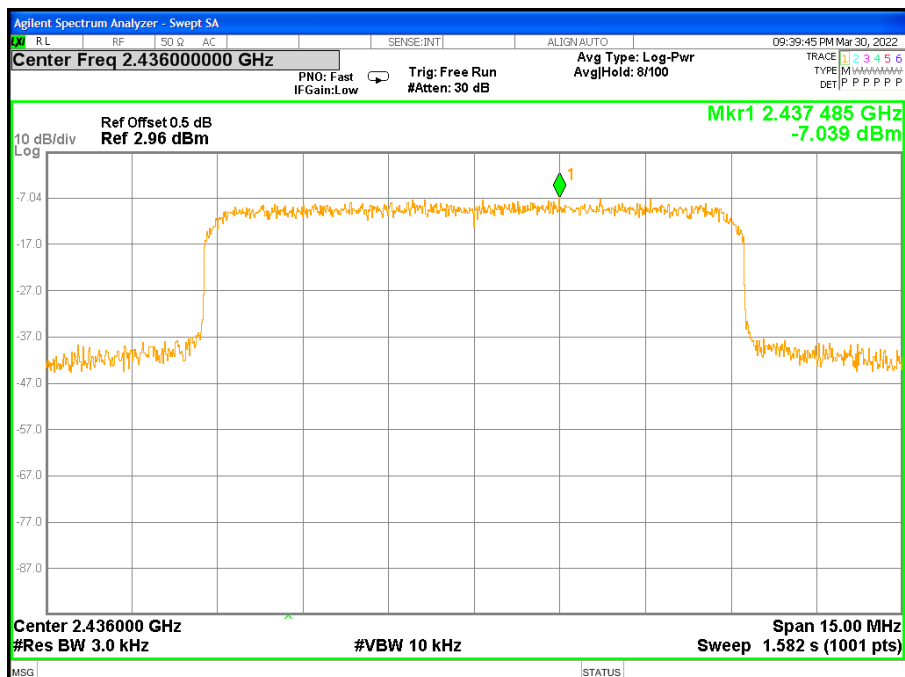
| Frequency (MHz) | Power Density (dBm/3KHz) | | | Limit (dBm/3KHz) | Result |
|--------------------|-----------------------------|-------|---------|---------------------|--------|
| | Ant_A | Ant_B | Ant A+B | | |
| 2406 | -7.30 | -6.23 | -3.73 | 8 | PASS |
| 2436 | -7.04 | -6.12 | -3.54 | 8 | PASS |
| 2466 | -7.01 | -5.88 | -3.39 | 8 | PASS |

ANT A
TX CH01

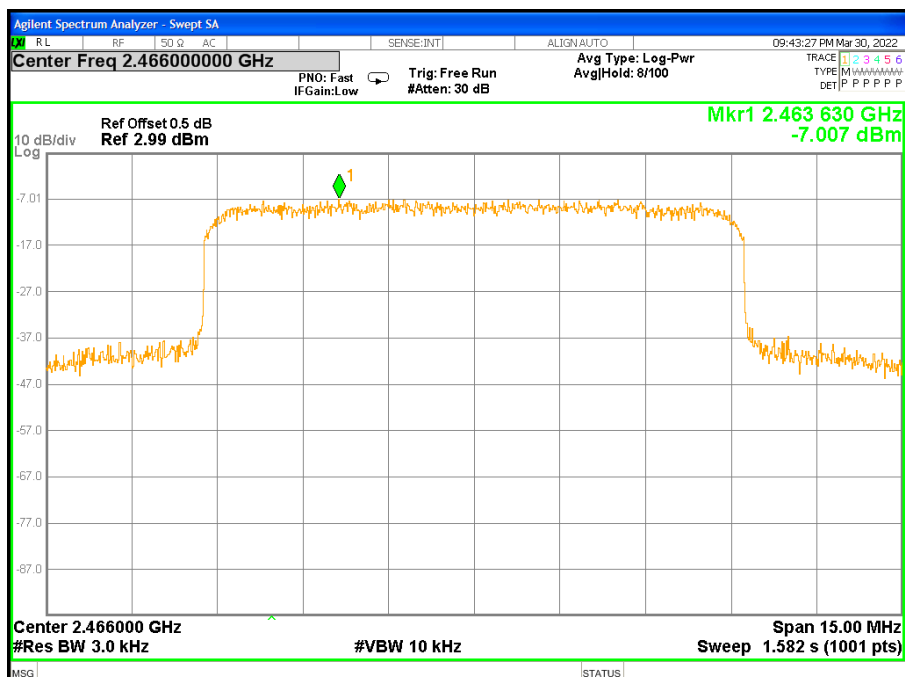




TX CH04



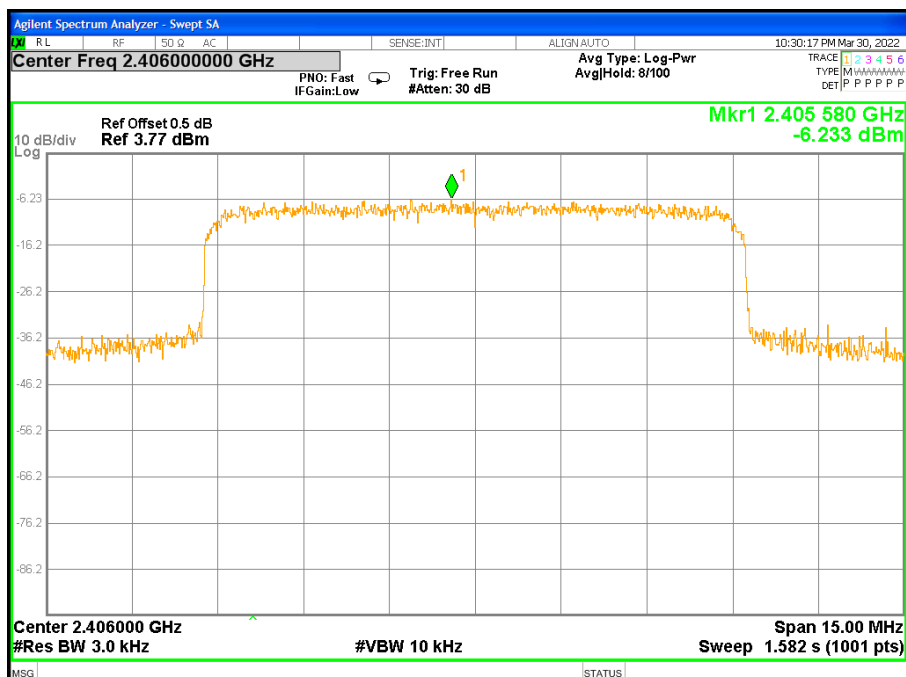
TX CH06



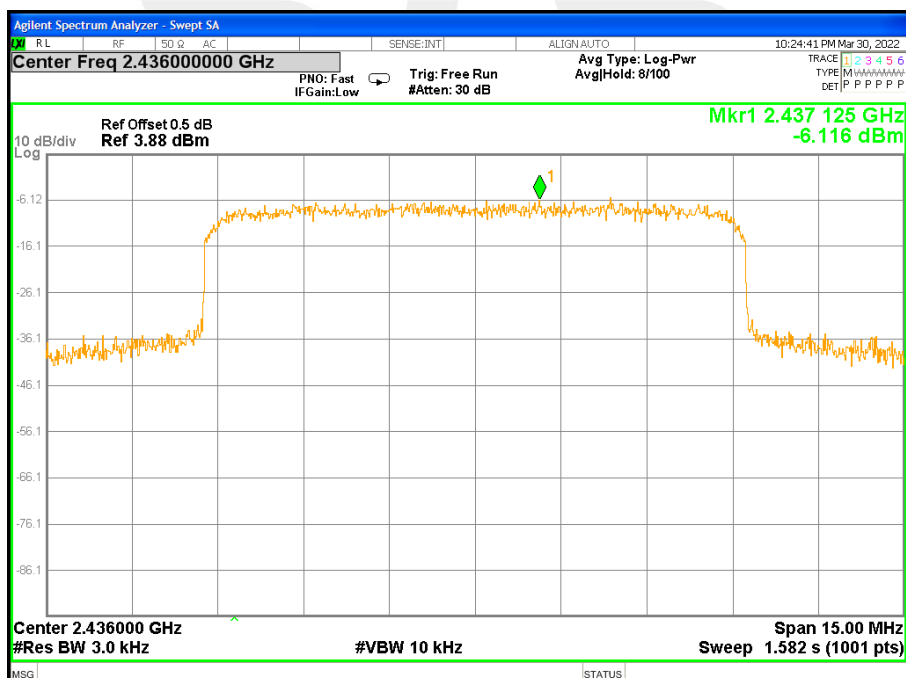


ANT B

TX CH01

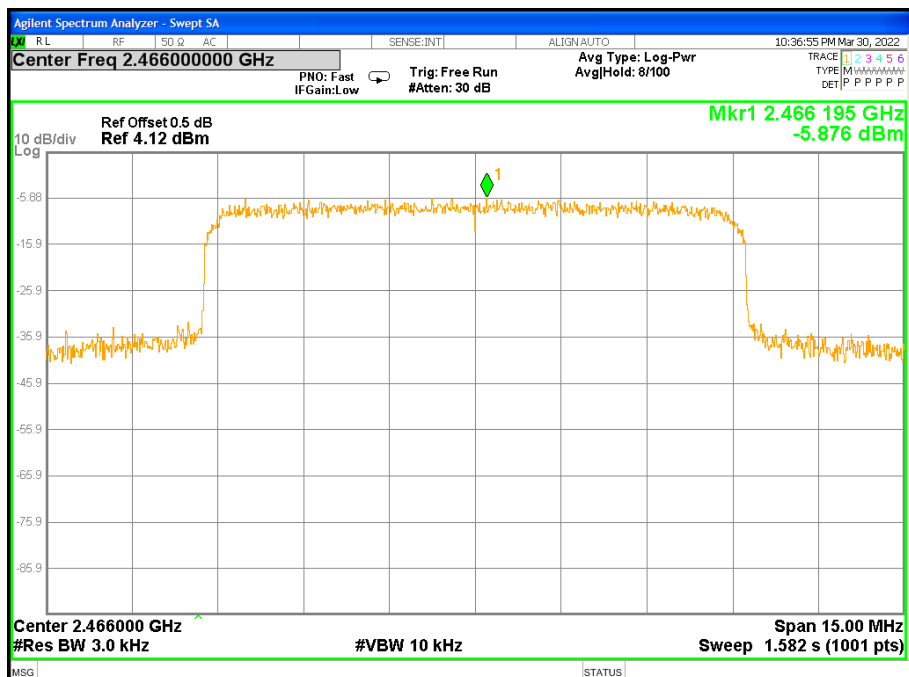


TX CH04





TX CH06





7. BANDWIDTH TEST

7.1 LIMIT

| FCC Part 15.247, Subpart C | | | | |
|----------------------------|-----------|---|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(2) | Bandwidth | $\geq 500\text{KHz}$ (6dB bandwidth) | 2400-2483.5 | PASS |

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW ≥ 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.



7.5 TEST RESULTS

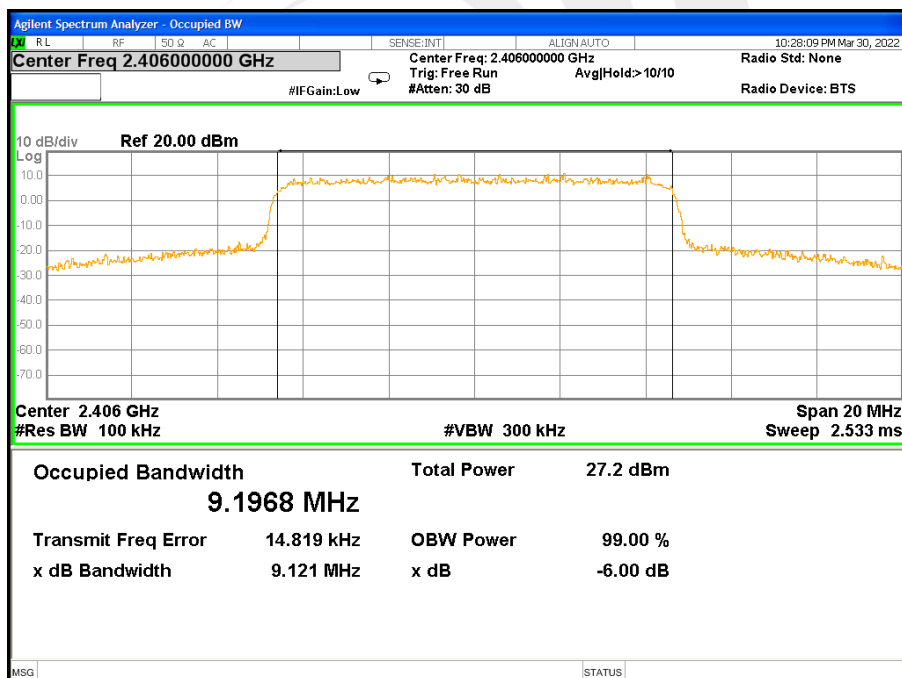
Note: ANT B Power > ANT A Power, Both ANT A and B have been test, Only show the worst data of ANT B.

| | | | |
|---------------|----------|--------------------|---------------------------|
| Temperature: | 25 °C | Relative Humidity: | 60% |
| Test Voltage: | DC 25.2V | Test Mode: | TX Mode /CH01, CH04, CH06 |

ANT B

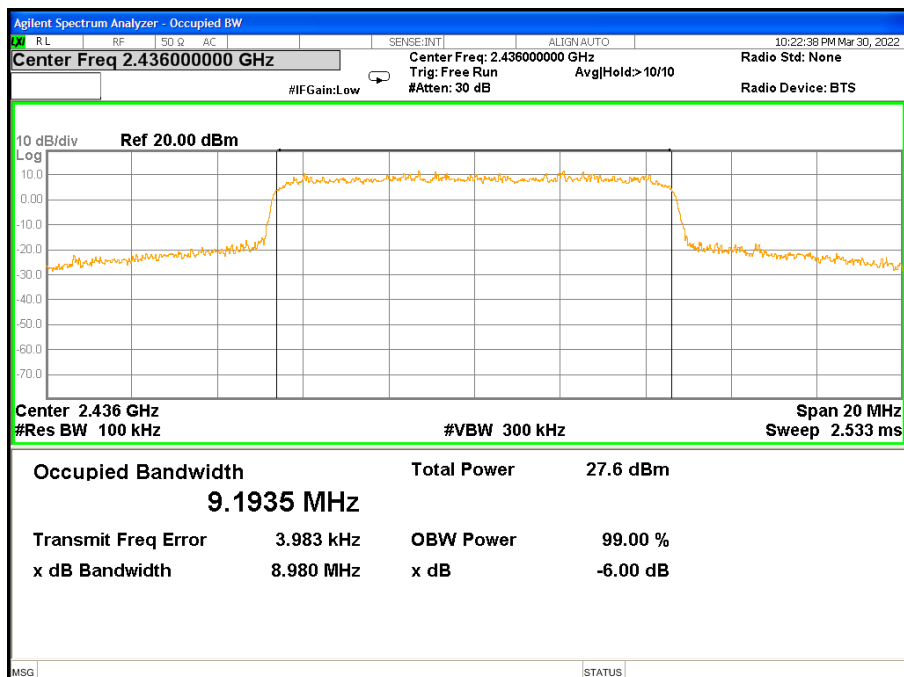
| Modulation | Frequency (MHz) | -6 dB Bandwidth (MHz) | Limit (KHz) | Result |
|------------|-----------------|-----------------------|-------------|--------|
| QPSK | 2406 | 9.195 | 500 | PASS |
| | 2436 | 9.017 | 500 | PASS |
| | 2466 | 9.024 | 500 | PASS |

TX CH 01

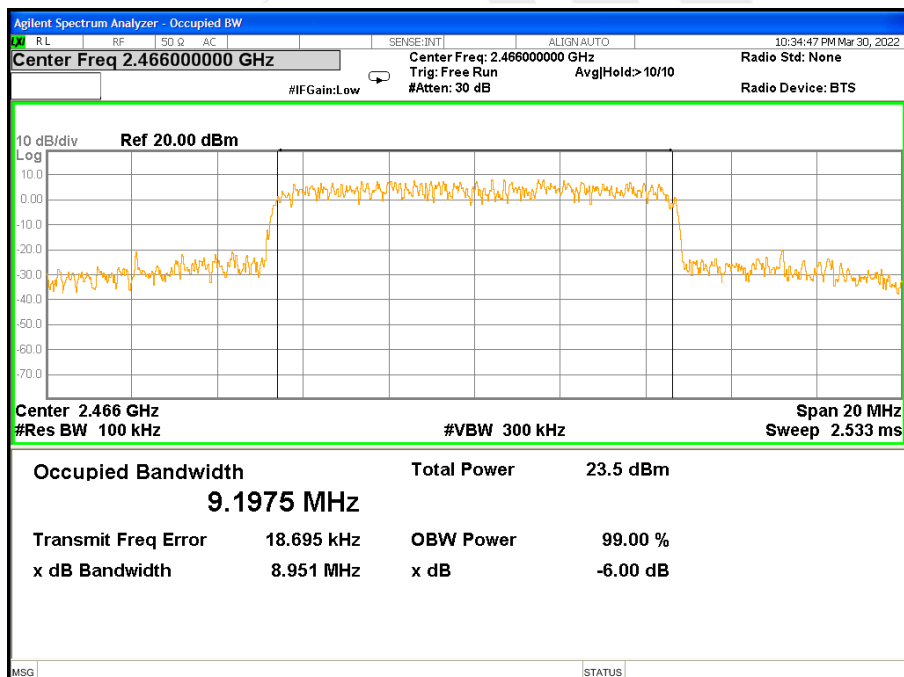




TX CH 04



TX CH 06





8. PEAK OUTPUT POWER TEST

8.1 LIMIT

| FCC Part 15.247, Subpart C | | | | |
|----------------------------|--------------|-----------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(3) | Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW \geq DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW \geq DTS bandwidth.
- Set VBW \geq [3 \times RBW].
- Set span \geq [3 \times RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

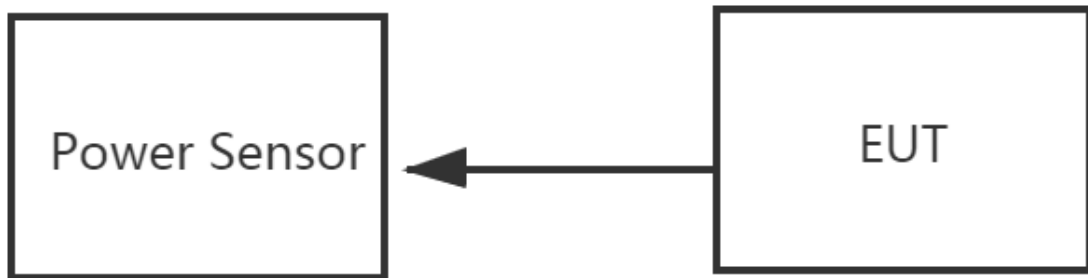
- Set the RBW = 1 MHz.
- Set the VBW \geq [3 \times RBW].
- Set the span \geq [1.5 \times DTS bandwidth].
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.



8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.



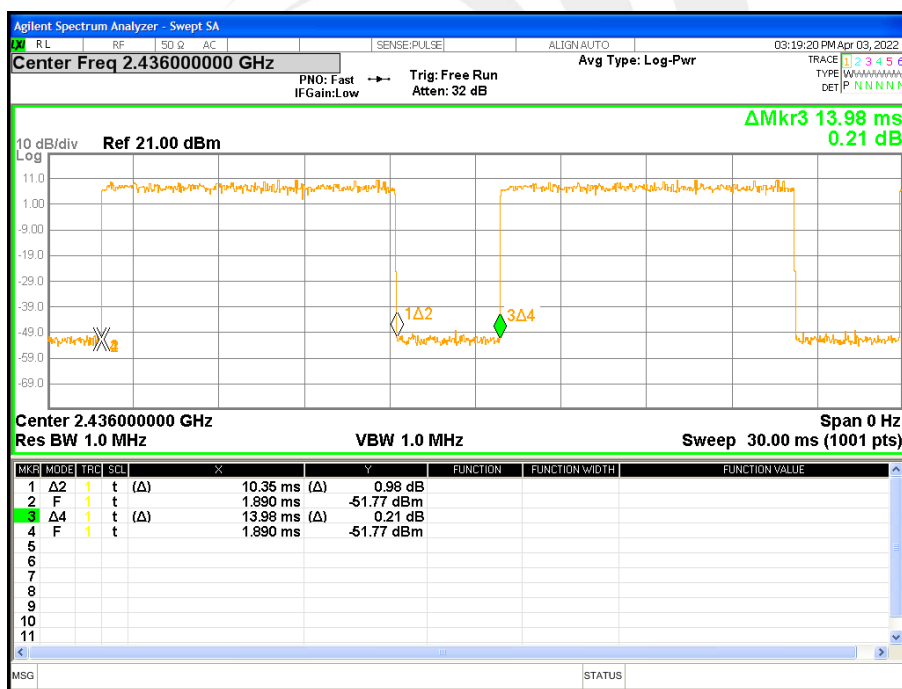


8.5 TEST RESULTS

| | | | |
|---------------|----------|--------------------|---------------------------|
| Temperature: | 25 °C | Relative Humidity: | 60% |
| Test Voltage: | DC 25.2V | Test Mode: | TX Mode /CH01, CH04, CH06 |

| Frequency (MHz) | Ant_A Peak Output Power (dBm) | Ant_B Peak Output Power (dBm) | ANT A+B Peak Output Power (dBm) | Ant_A Average Reading Power (dBm) | Ant_B Average Reading Power (dBm) | Duty Cycle Factor (dB) | Ant_A Final Average Output Power (dBm) | Ant_B Final Average Output Power (dBm) | Ant_A+B Final Average Output Power (dBm) | Limit (dBm) | Result |
|-----------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------------|-----------------------------------|------------------------|--|--|--|-------------|--------|
| 2406 | 26.23 | 27.26 | 29.79 | 17.41 | 18.62 | 1.31 | 18.72 | 19.93 | 22.37 | 30 | Pass |
| 2436 | 26.28 | 27.35 | 29.86 | 17.77 | 19.22 | 1.31 | 19.08 | 20.53 | 22.87 | 30 | Pass |
| 2466 | 26.36 | 27.32 | 29.88 | 18.30 | 19.35 | 1.31 | 19.61 | 20.66 | 23.17 | 30 | Pass |

Duty cycle



| Frequency (MHz) | TON (ms) | TP (ms) | Duty cycle (%) | Duty Cycle Factor (dB) |
|-----------------|----------|---------|----------------|------------------------|
| 2436 | 10.3500 | 13.9800 | 74.03% | 1.31 |



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

9.2 EUT ANTENNA

The EUT antenna is External Antenna. It comply with the standard requirement.





10. EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

XXXXXXXXEND OF THE REPORTXXXXXXXX

