



FCC RF Test Report

APPLICANT : Satco Products Inc.
EQUIPMENT : Smart Control Panel-10 inch
MODEL NAME : S11576
FCC ID : 2BNMQ-S11576
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : May 16, 2023 ~ May 31, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sportun International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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REVISION HISTORY



SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|----------------|--------------------|--|-----------------------|-------------|---------------------------------------|
| 3.1 | 15.247(a)(2) | 6dB Bandwidth | ≥ 0.5MHz | Pass | - |
| 3.1 | - | 99% Bandwidth | - | Report only | - |
| 3.2 | 15.247(b)(3) | Peak Output Power | ≤ 30dBm | Pass | - |
| 3.3 | 15.247(e) | Power Spectral Density | ≤ 8dBm/3kHz | Pass | - |
| 3.4 | 15.247(d) | Conducted Band Edges and Spurious Emission | ≤ 20dBc | Pass | - |
| 3.5 | 15.247(d) | Radiated Band Edges and Spurious Emission | 15.209(a) & 15.247(d) | Pass | Under limit 4.14 dB at 4804.00 MHz |
| 3.6 | 15.207 | AC Conducted Emission | 15.207(a) | Pass | Under limit 7.09 dB at 0.291 MHz |
| 3.7 | 15.203 & 15.247(b) | Antenna Requirement | 15.203 & 15.247(b) | Pass | - |

Note: This is a change FCC ID report. Since no changes have been made to this device, therefore, all test cases were leveraged from original report (FCC ID: 2A789-TPA10, report number FR350402B).

| Conformity Assessment Condition: |
|---|
| 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty" |
| Disclaimer: |
| The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity. |



1 General Description

1.1 Applicant

Satco Products Inc.

110 Heartland Blvd. Brentwood, NY 11717, USA

1.2 Manufacturer

Satco Products Inc.

110 Heartland Blvd. Brentwood, NY 11717, USA

1.3 Product Feature of Equipment Under Test

| Product Feature | |
|-----------------|--|
| Equipment | Smart Control Panel-10 inch |
| Model Name | S11576 |
| FCC ID | 2BNMQ-S11576 |
| SN | RSE: FWAED13ZJ0007D Conducted: ZNVEC28KL00004 Conduction: ZNVEC28KL00017 |
| HW Version | V1.0 |
| SW Version | V2.X.X |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|--|
| Tx/Rx Frequency Range | 2402 MHz ~ 2480 MHz |
| Number of Channels | 40 |
| Carrier Frequency of Each Channel | 40 Channel (37 hopping + 3 advertising channel) |
| Maximum Output Power to Antenna | Bluetooth LE 1Mbps: 6.78 dBm (0.0048 W) Bluetooth LE 2Mbps: 6.83 dBm (0.0048 W) |
| 99% Occupied Bandwidth | Bluetooth LE 1Mbps: 1.019 MHz Bluetooth LE 2Mbps: 2.054 MHz |
| Antenna Type / Gain | IPEX Antenna type with gain 0.73 dBi |
| Type of Modulation | Bluetooth LE : GFSK |

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sportun International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| | | | |
|---------------------------|--|----------------------------|---------------------------------------|
| Test Firm | Sportun International Inc. (Kunshan) | | |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 | | |
| Test Site No. | Sportun Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | CO01-KS 03CH08-KS TH01-KS | CN1257 | 314309 |

1.7 Test Software

| Item | Site | Manufacturer | Name | Version |
|------|-----------|--------------|------|---------------|
| 1. | 03CH08-KS | AUDIX | E3 | 6.2009-8-24al |
| 2. | CO01-KS | AUDIX | E3 | 6.2009-8-24 |

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|----------------|---------|----------------|
| 2400-2483.5 MHz | 0 | 2402 | 21 | 2444 |
| | 1 | 2404 | 22 | 2446 |
| | 2 | 2406 | 23 | 2448 |
| | 3 | 2408 | 24 | 2450 |
| | 4 | 2410 | 25 | 2452 |
| | 5 | 2412 | 26 | 2454 |
| | 6 | 2414 | 27 | 2456 |
| | 7 | 2416 | 28 | 2458 |
| | 8 | 2418 | 29 | 2460 |
| | 9 | 2420 | 30 | 2462 |
| | 10 | 2422 | 31 | 2464 |
| | 11 | 2424 | 32 | 2466 |
| | 12 | 2426 | 33 | 2468 |
| | 13 | 2428 | 34 | 2470 |
| | 14 | 2430 | 35 | 2472 |
| | 15 | 2432 | 36 | 2474 |
| | 16 | 2434 | 37 | 2476 |
| | 17 | 2436 | 38 | 2478 |
| | 18 | 2438 | 39 | 2480 |
| | 19 | 2440 | - | - |
| | 20 | 2442 | - | - |



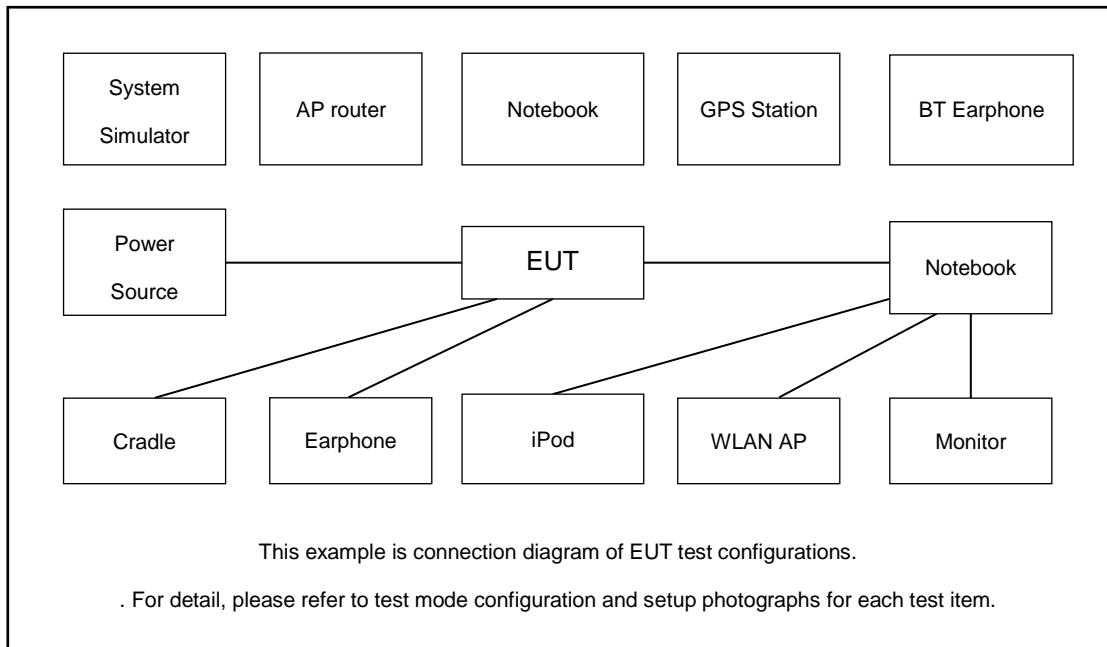
2.2 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

| Summary table of Test Cases | |
|--|---|
| Test Item | Data Rate / Modulation |
| | Bluetooth – LE / GFSK |
| Conducted TCs | Bluetooth Tx CH00_2402 MHz_1Mbps & 2Mbps |
| | Bluetooth Tx CH19_2440 MHz_1Mbps & 2Mbps |
| | Bluetooth Tx CH39_2480 MHz_1Mbps & 2Mbps |
| Radiated TCs | Bluetooth Tx CH00_2402 MHz_1Mbps & 2Mbps |
| | Bluetooth Tx CH19_2440 MHz_1Mbps & 2Mbps |
| | Bluetooth Tx CH39_2480 MHz_1Mbps & 2Mbps |
| Co-location: Bluetooth-LE 1M_CH00 + Zigbee_CH26 + WLAN 11n HT40_CH09 | |
| AC Conducted Emission | Bluetooth Link + WLAN Link(2.4G) + AC 120V/60Hz + Notebook(RJ45 Link) + Lamp bulb(L1) + Lamp bulb(L2) |

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|--------------------|------------|---------------|------------|------------|---|
| 1. | WLAN AP | D-link | DIR-655 | KA21R655B1 | N/A | Unshielded,1.8m |
| 2. | Notebook | Lenovo | V130-15IKB005 | N/A | N/A | shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m |
| 3. | Bluetooth Earphone | Lenovo | LBH308 | N/A | N/A | N/A |
| 4. | Lamp bulb | NA | N/A | N/A | N/A | N/A |
| 5. | Lamp bulb | NA | N/A | N/A | N/A | N/A |



2.5 EUT Operation Test Setup

For BLE function, the engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.60 dB

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 5.60(\text{dB}) \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

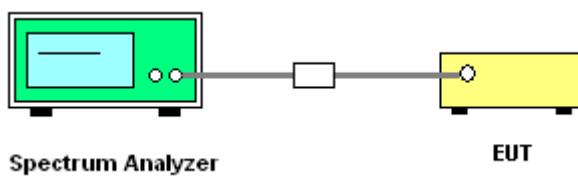
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup

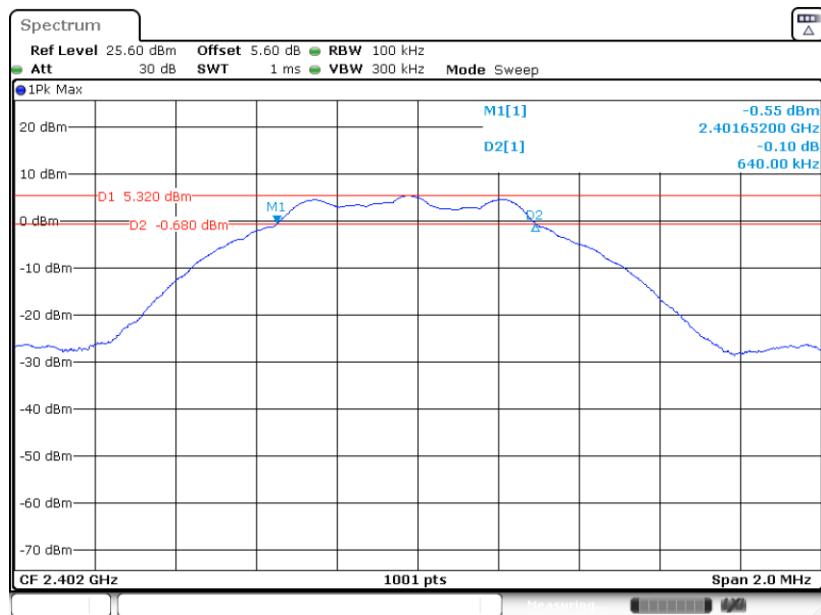


3.1.5 Test Result of 6dB Bandwidth

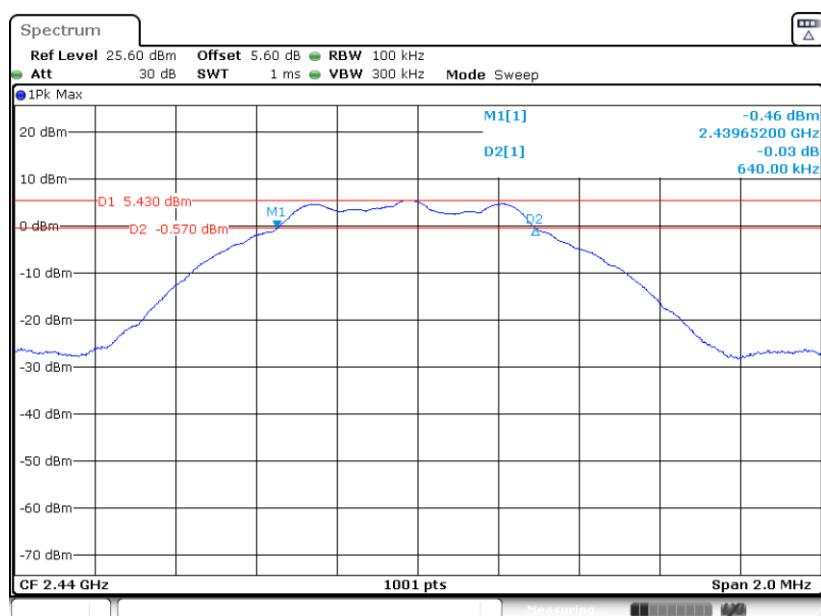
Please refer to Appendix A.

Bluetooth LE 1Mbps

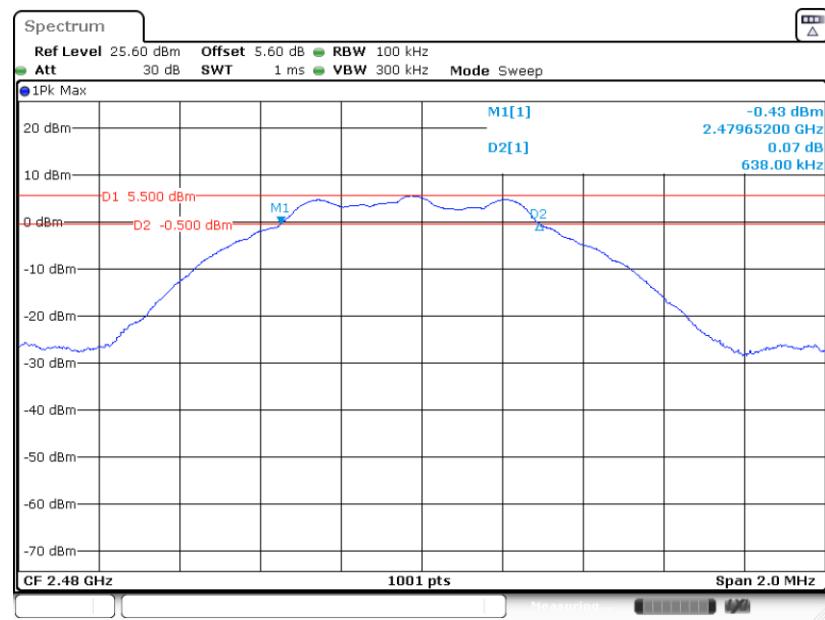
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19

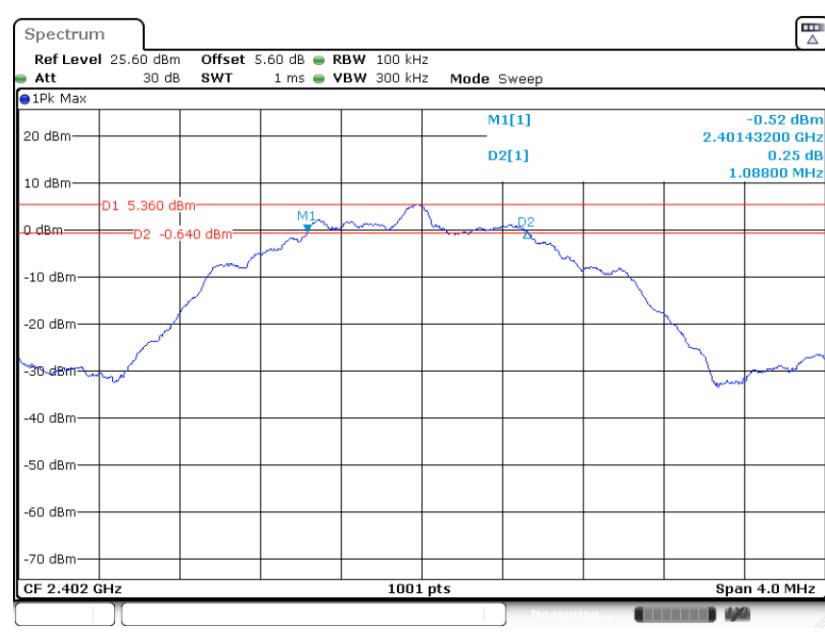


6 dB Bandwidth Plot on Channel 39

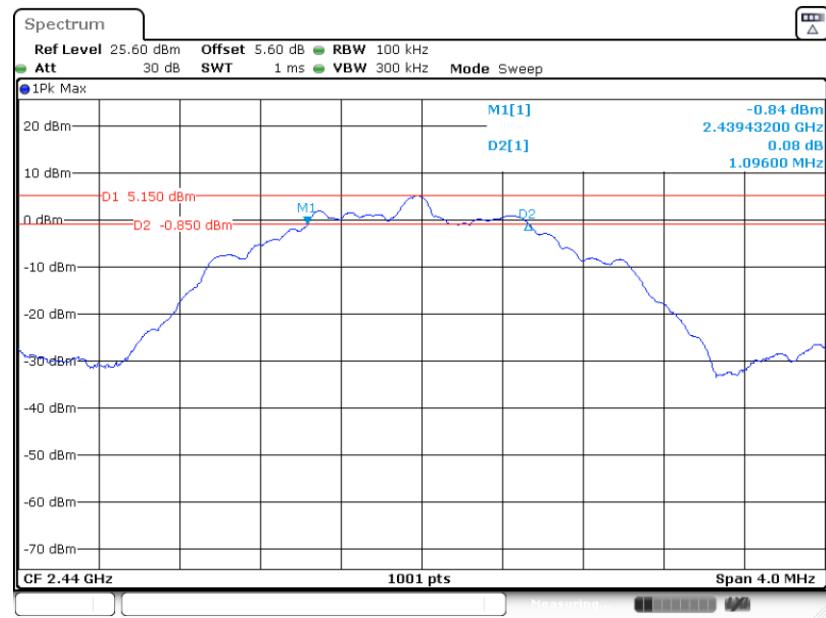


Bluetooth LE 2Mbps

6 dB Bandwidth Plot on Channel 00

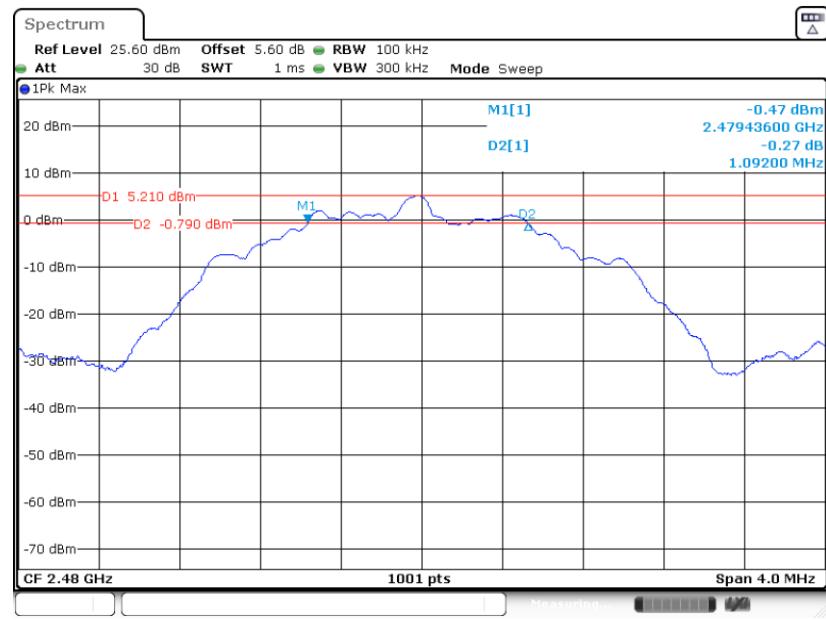


6 dB Bandwidth Plot on Channel 19



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6 dB Bandwidth Plot on Channel 39



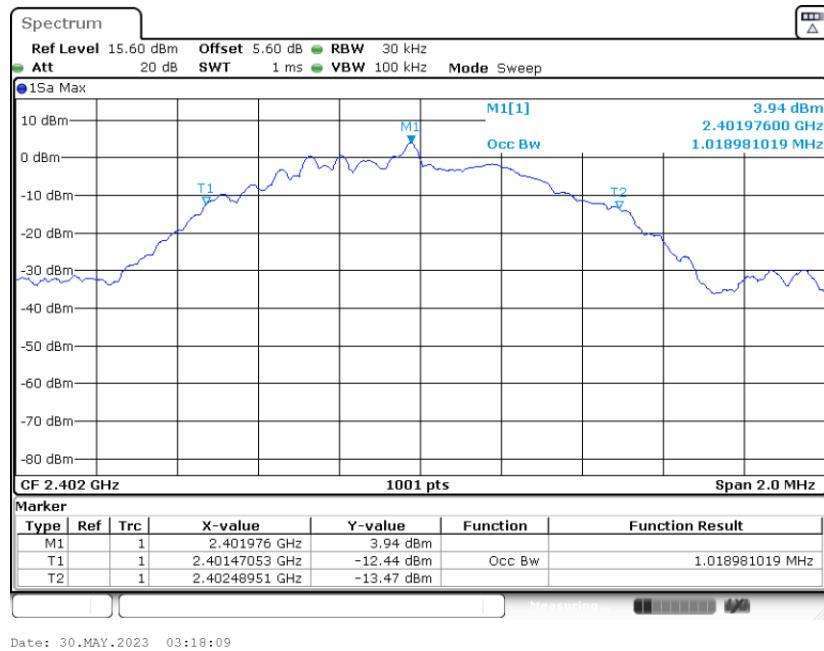
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3.1.6 Test Result of 99% Occupied Bandwidth

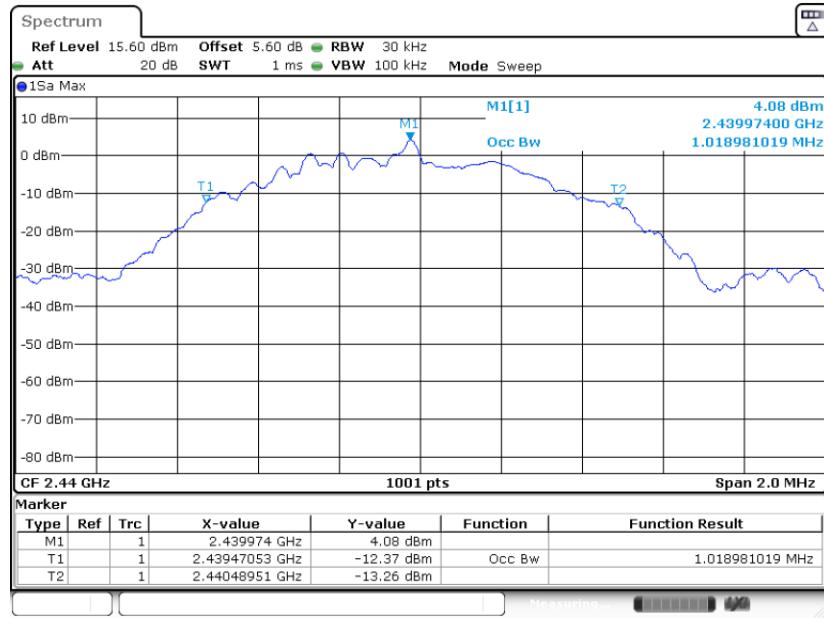
Please refer to Appendix A.

Bluetooth LE 1Mbps

99% Occupied Bandwidth Plot on Channel 00

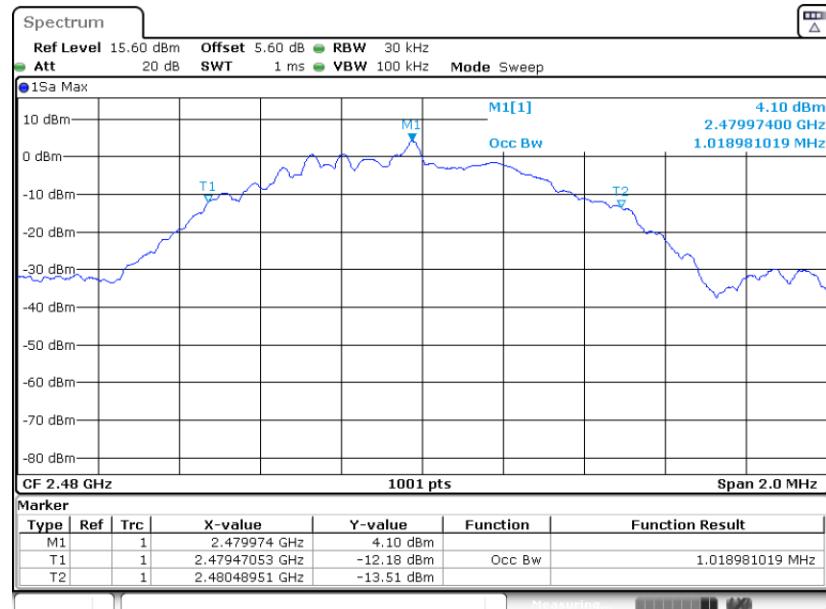


99% Occupied Bandwidth Plot on Channel 19



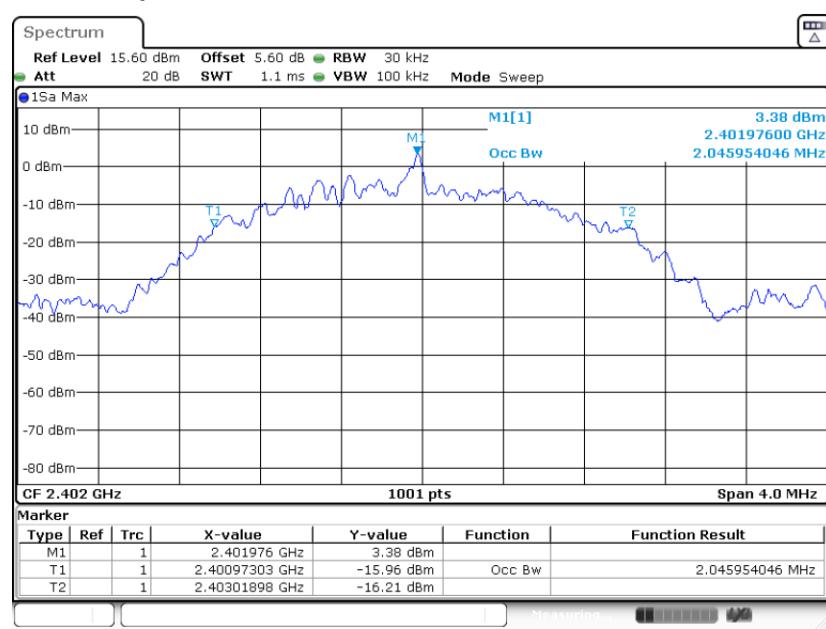


99% Occupied Bandwidth Plot on Channel 39

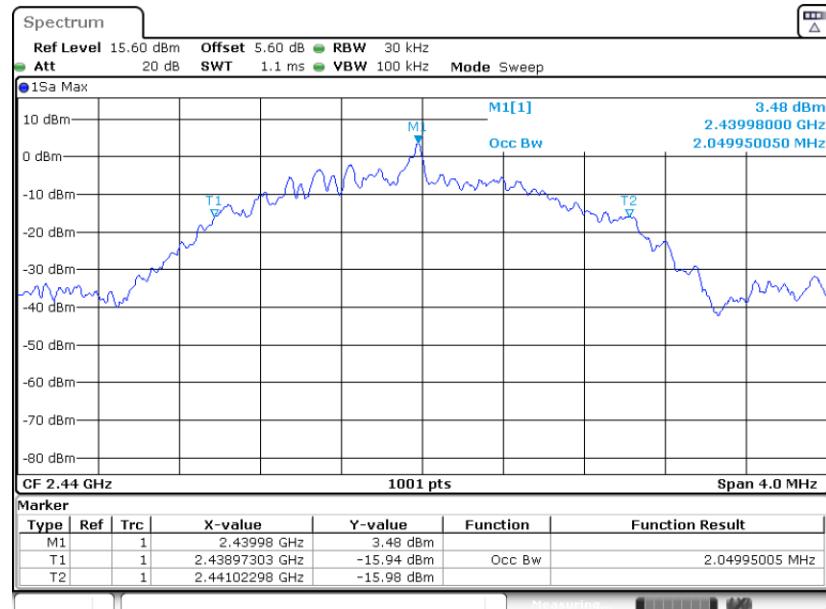


Bluetooth LE 2Mbps

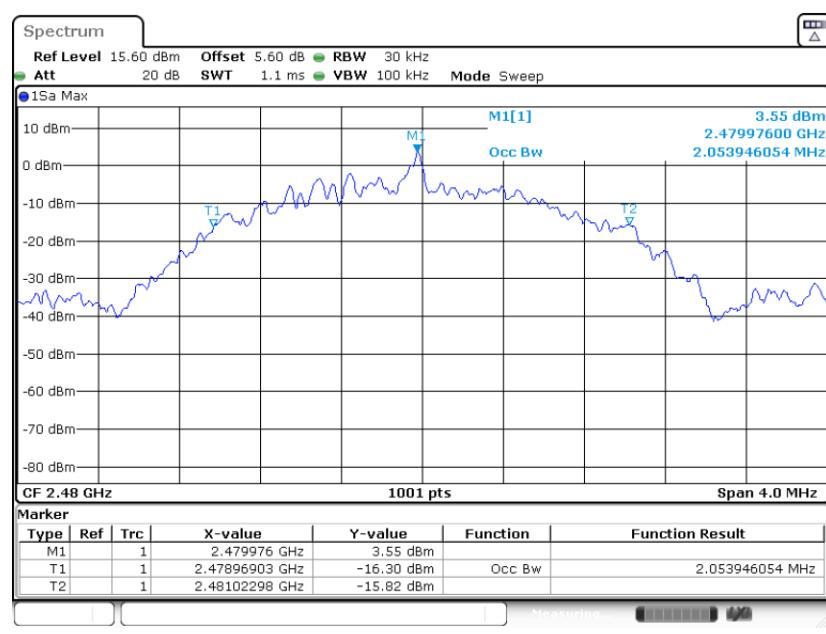
99% Occupied Bandwidth Plot on Channel 00



99% Occupied Bandwidth Plot on Channel 19



99% Occupied Bandwidth Plot on Channel 39



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

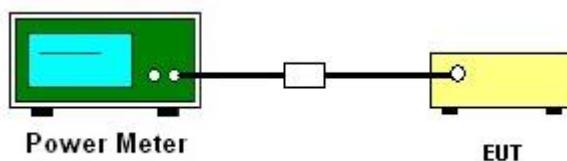
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

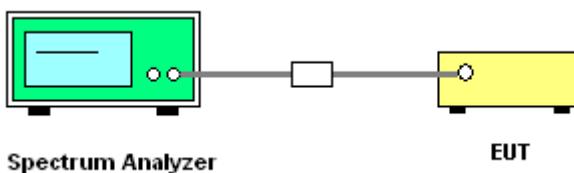
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

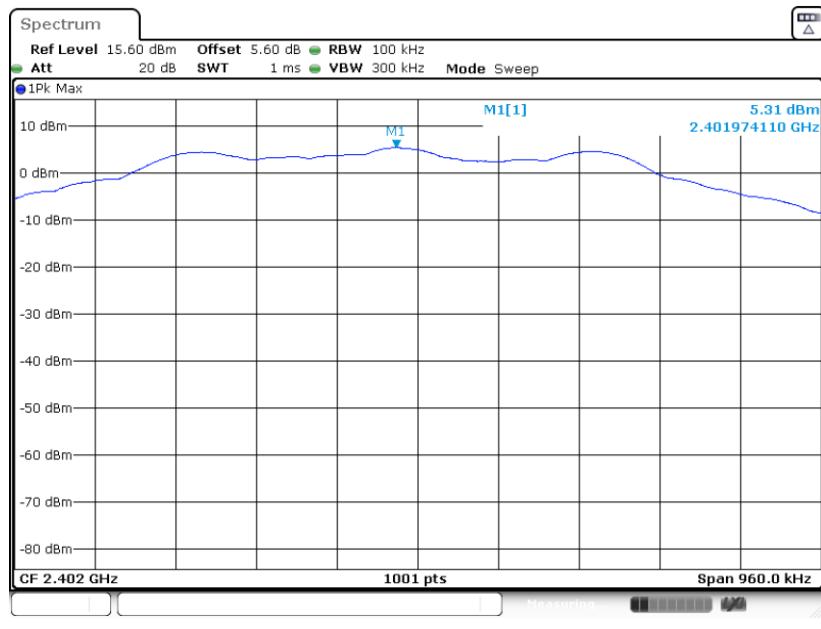
Please refer to Appendix A.



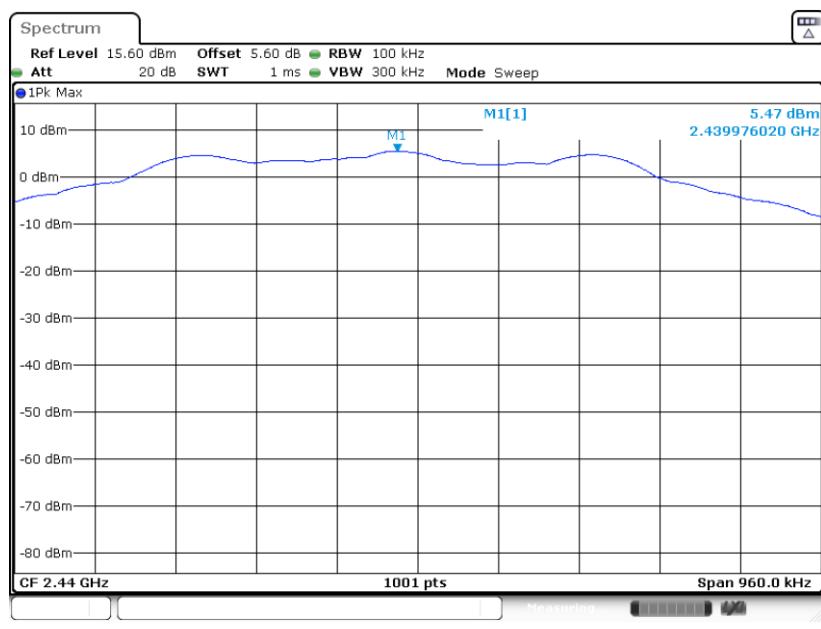
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

Bluetooth LE 1Mbps

PSD 100kHz Plot on Channel 00

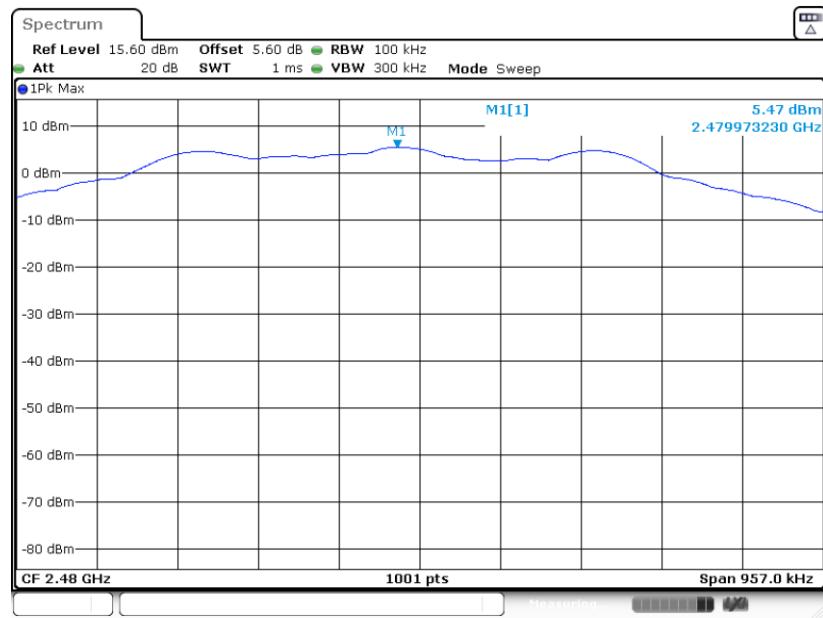


PSD 100kHz Plot on Channel 19



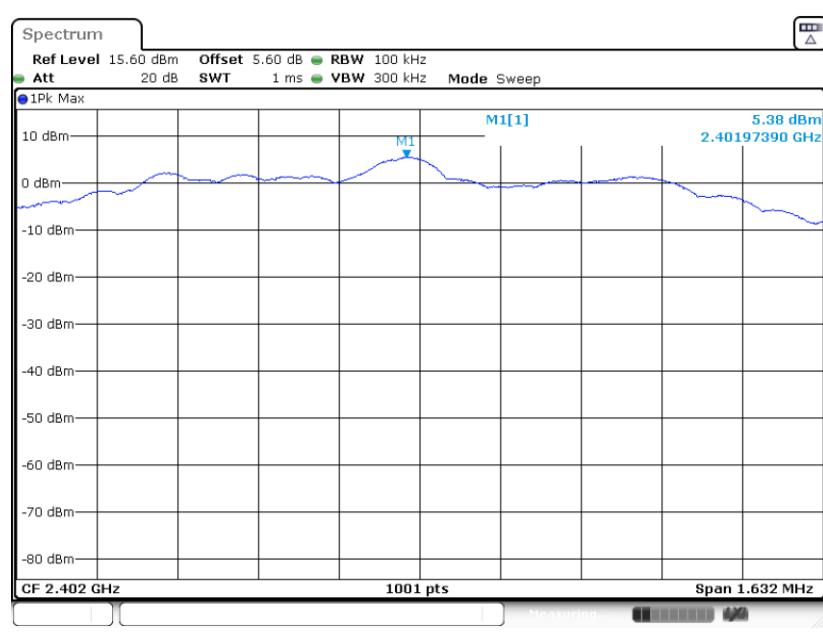


PSD 100kHz Plot on Channel 39



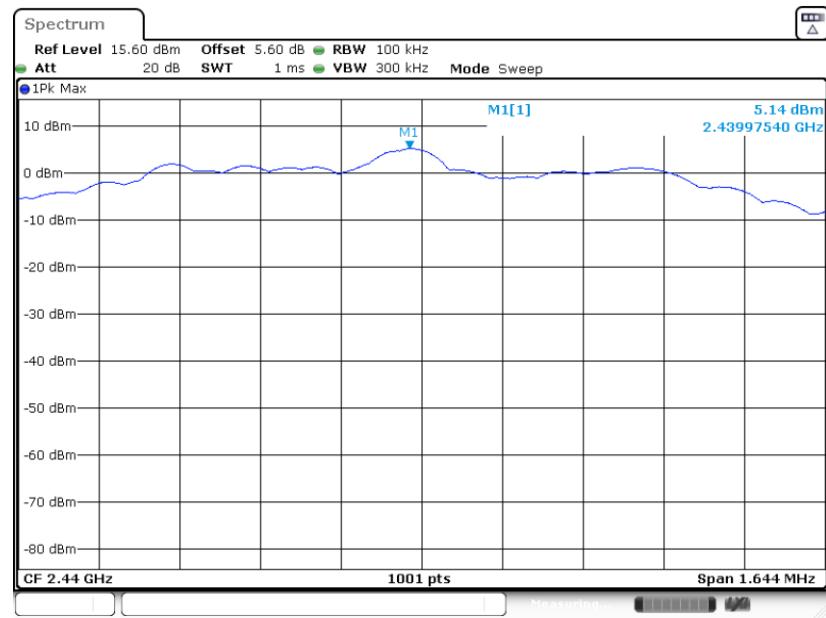
Bluetooth LE 2Mbps

PSD 100kHz Plot on Channel 00

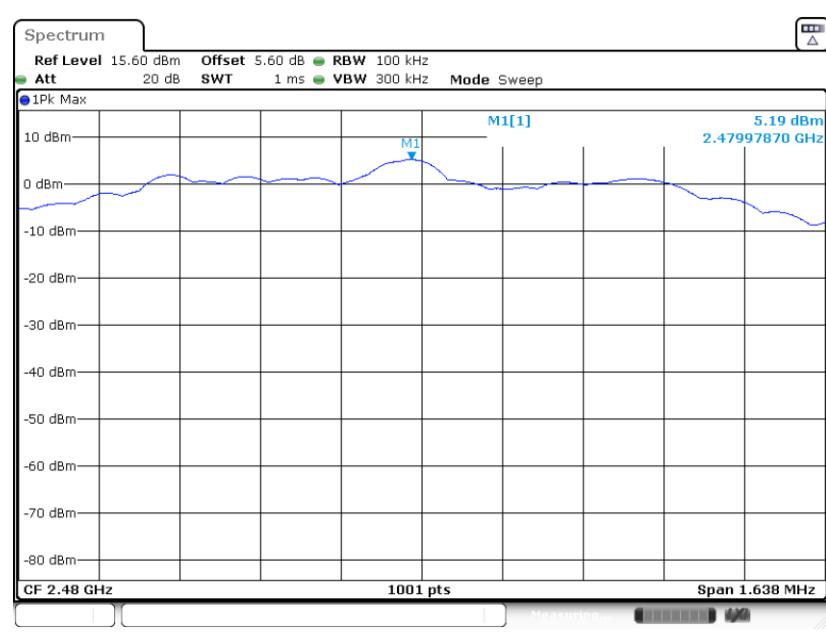




PSD 100kHz Plot on Channel 19



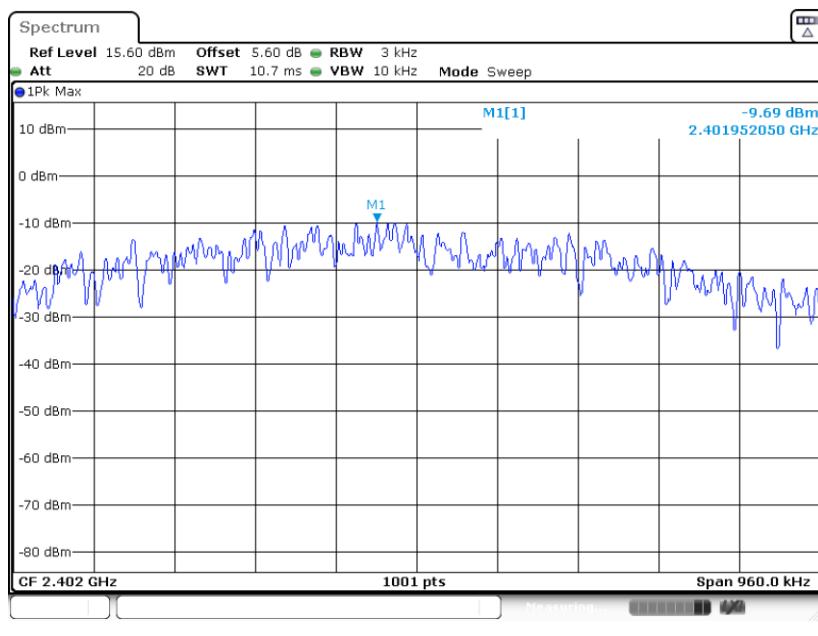
PSD 100kHz Plot on Channel 39



3.3.7 Test Result of Power Spectral Density Plots (3kHz)

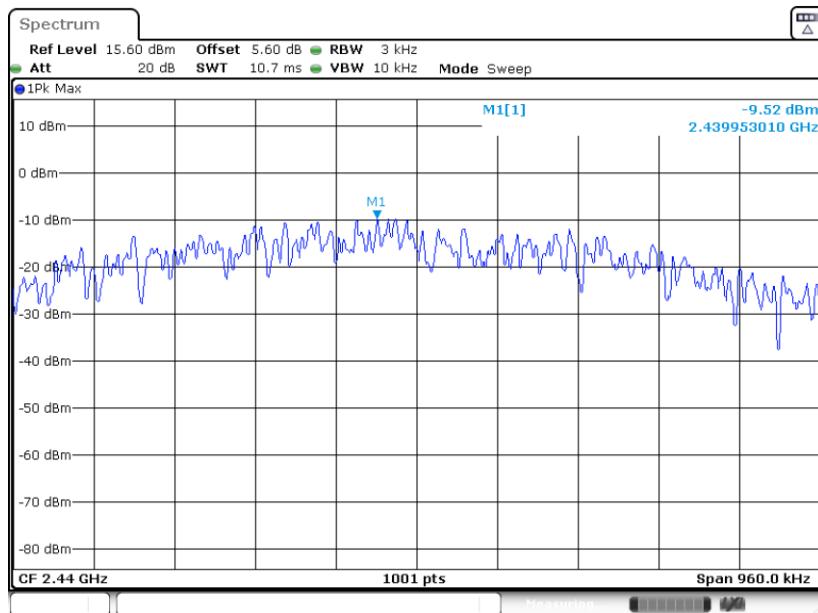
Bluetooth LE 1Mbps

PSD 3kHz Plot on Channel 00



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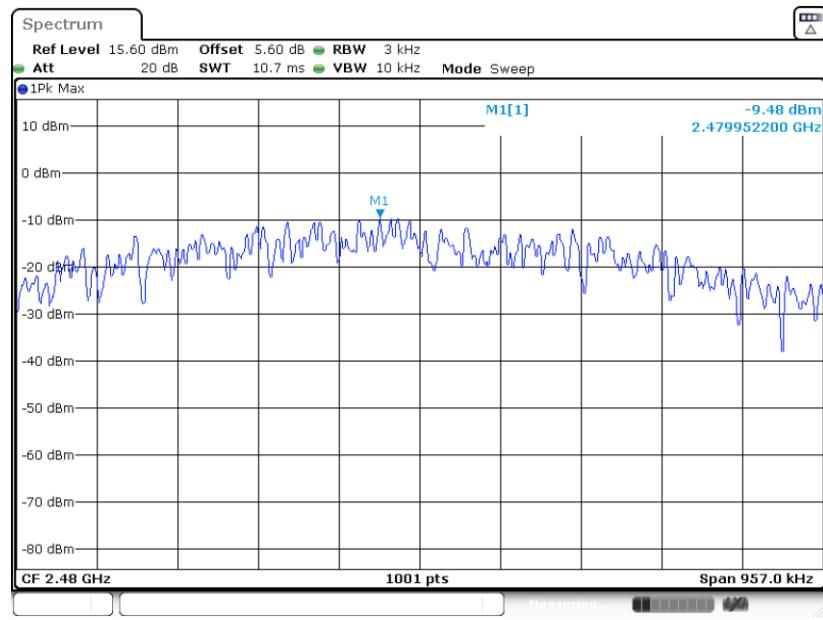
PSD 3kHz Plot on Channel 19



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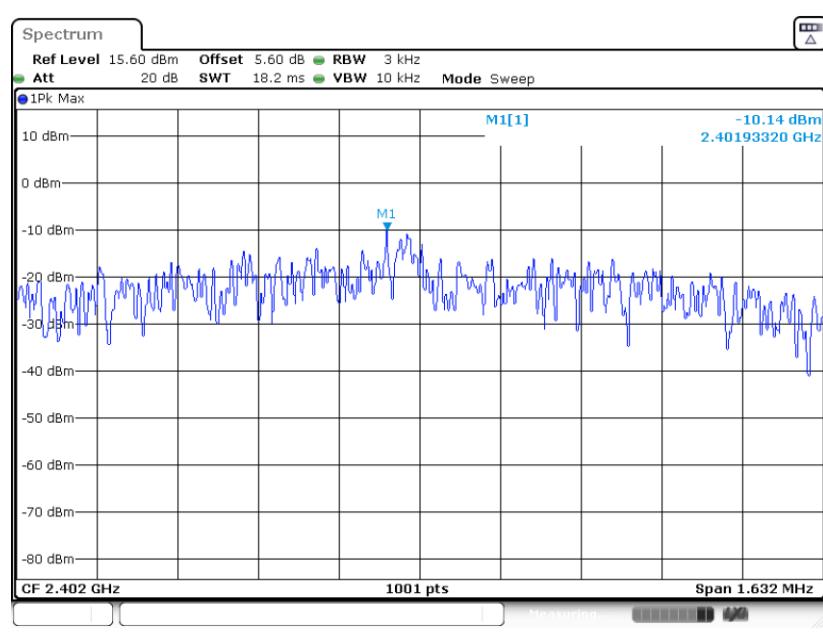


PSD 3kHz Plot on Channel 39



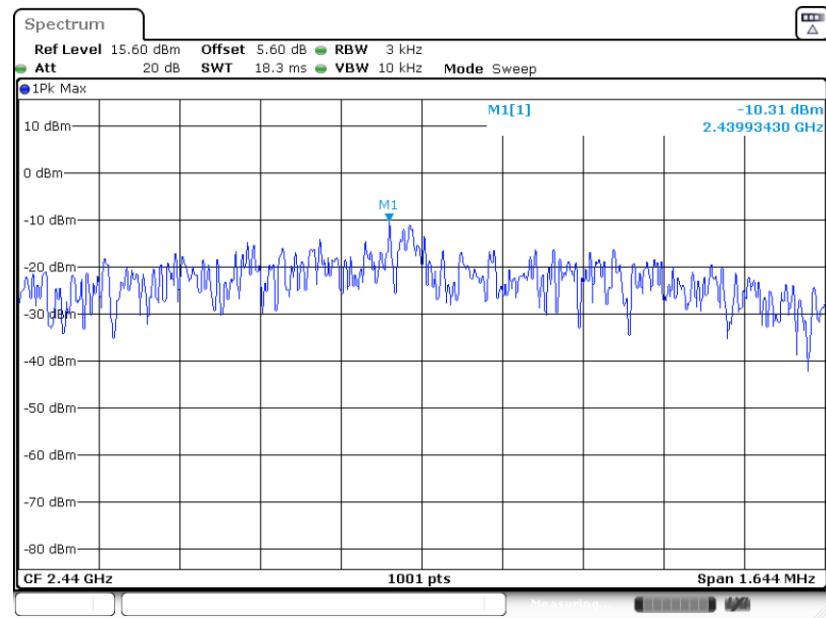
Bluetooth LE 2Mbps

PSD 3kHz Plot on Channel 00

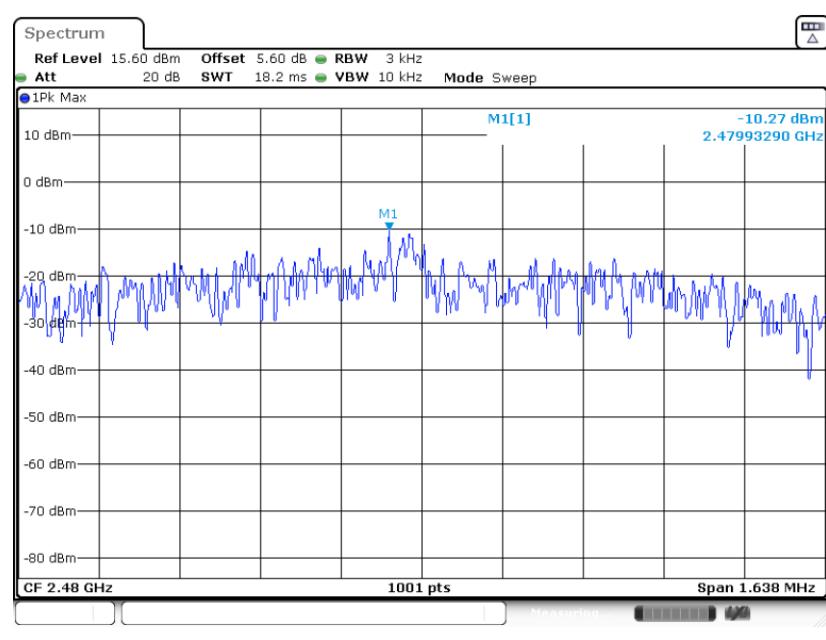




PSD 3kHz Plot on Channel 19



PSD 3kHz Plot on Channel 39



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

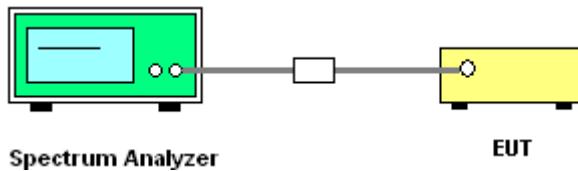
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

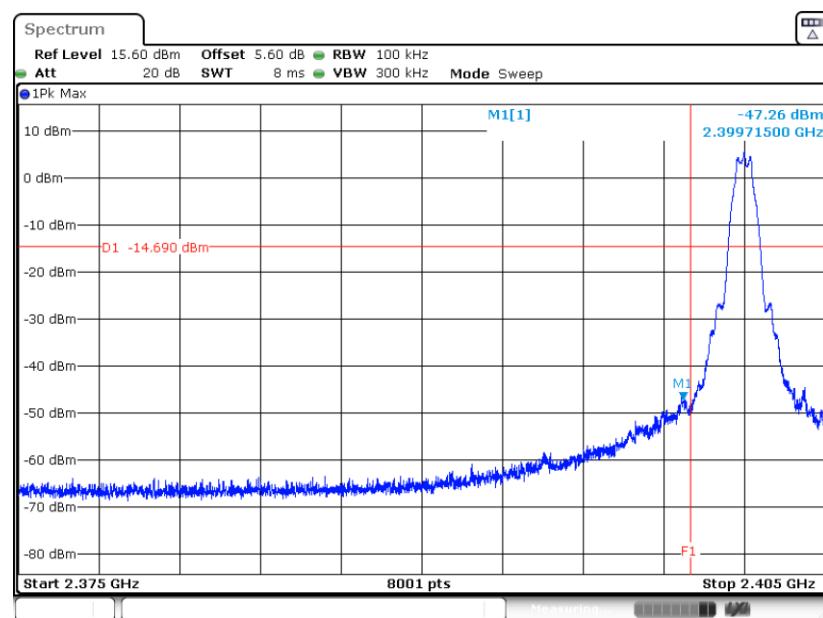
3.4.4 Test Setup



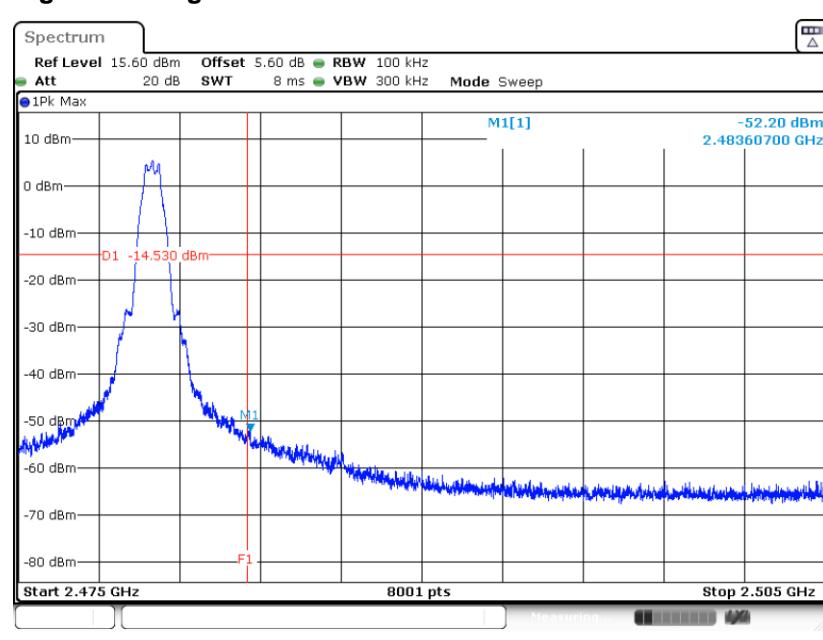
3.4.5 Test Result of Conducted Band Edges Plots

Bluetooth LE 1Mbps

Low Band Edge Plot on Channel 00

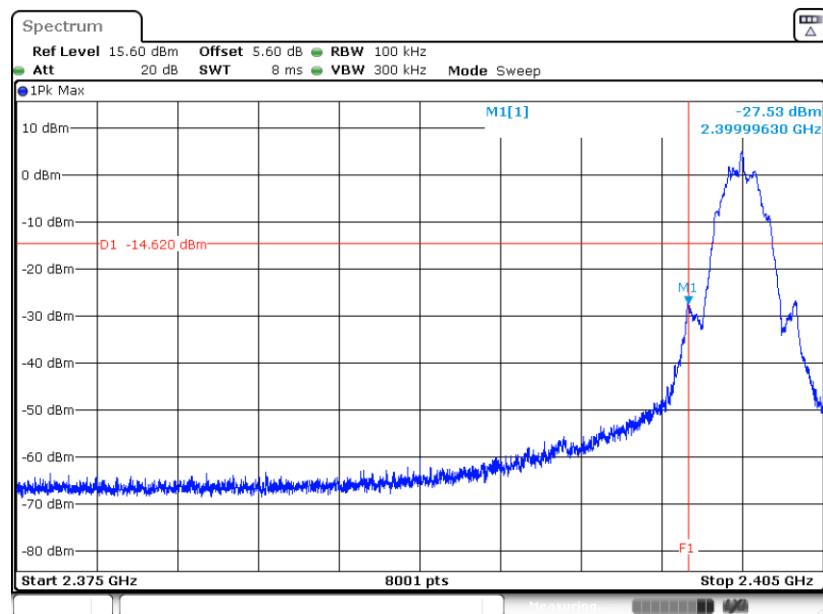


High Band Edge Plot on Channel 39



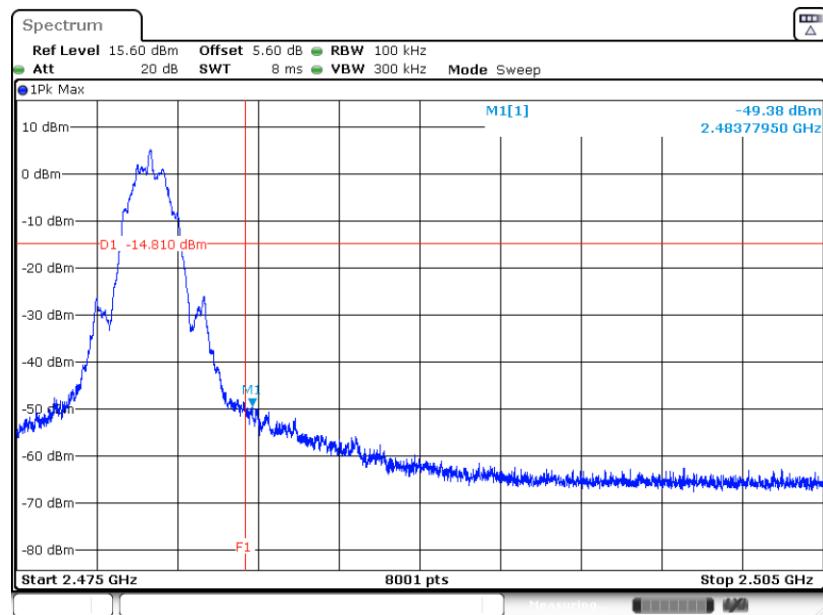
Bluetooth LE 2Mbps

Low Band Edge Plot on Channel 00



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High Band Edge Plot on Channel 39



Date: 30.MAY.2023 03:49:47

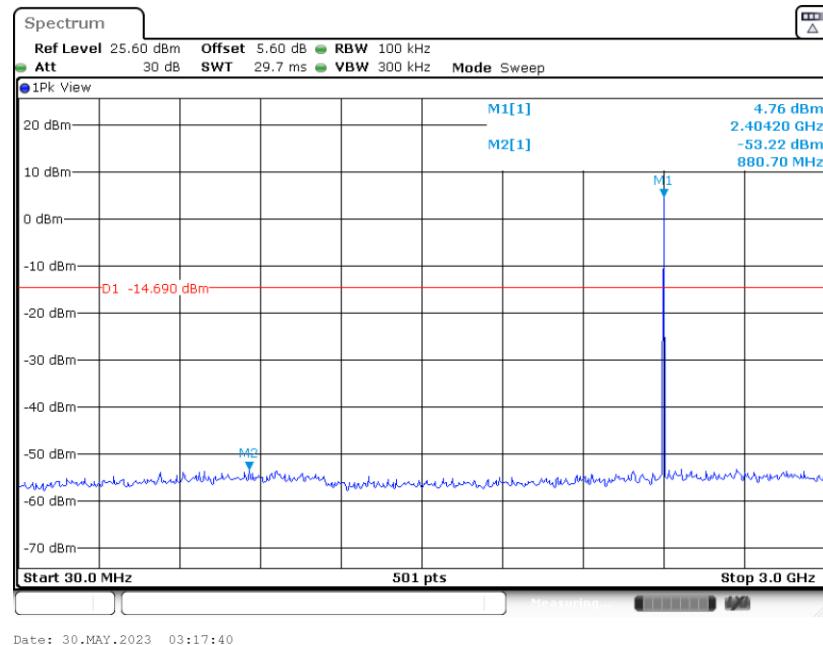


3.4.6 Test Result of Conducted Spurious Emission Plots

Bluetooth LE 1Mbps

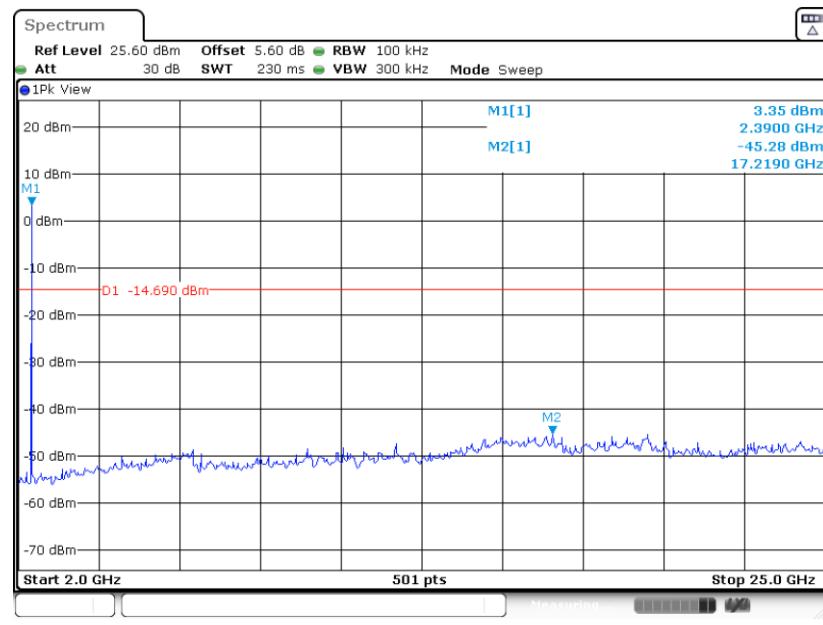
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

GFSK Channel 00



Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

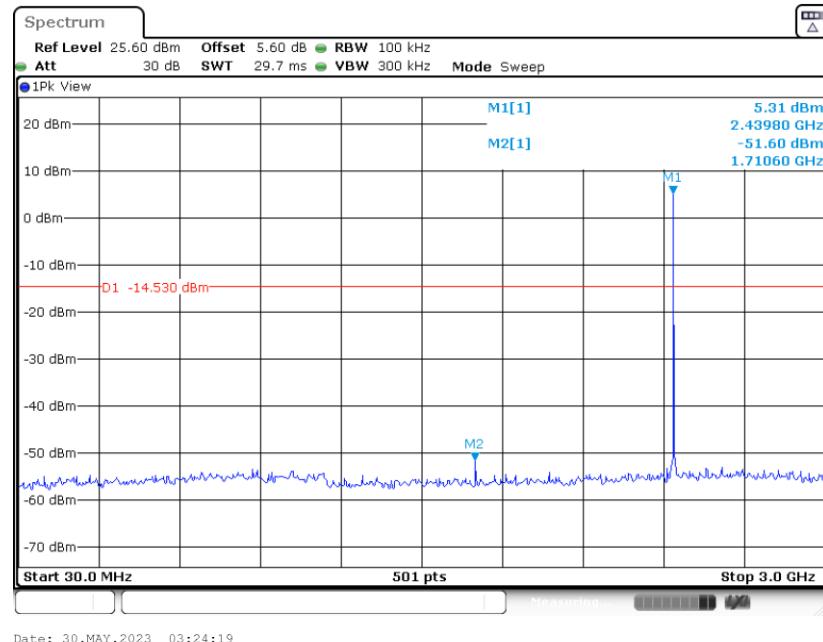
GFSK Channel 00





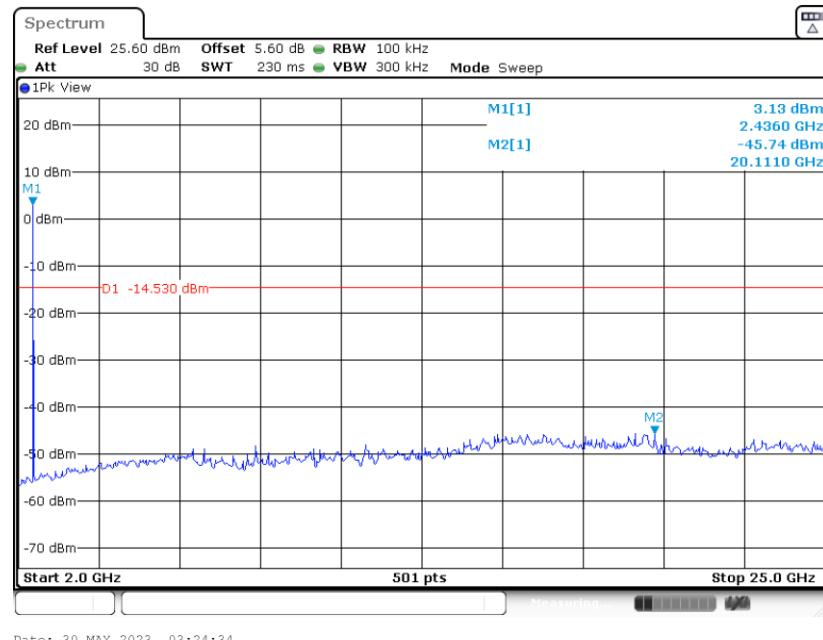
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

GFSK Channel 19



Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

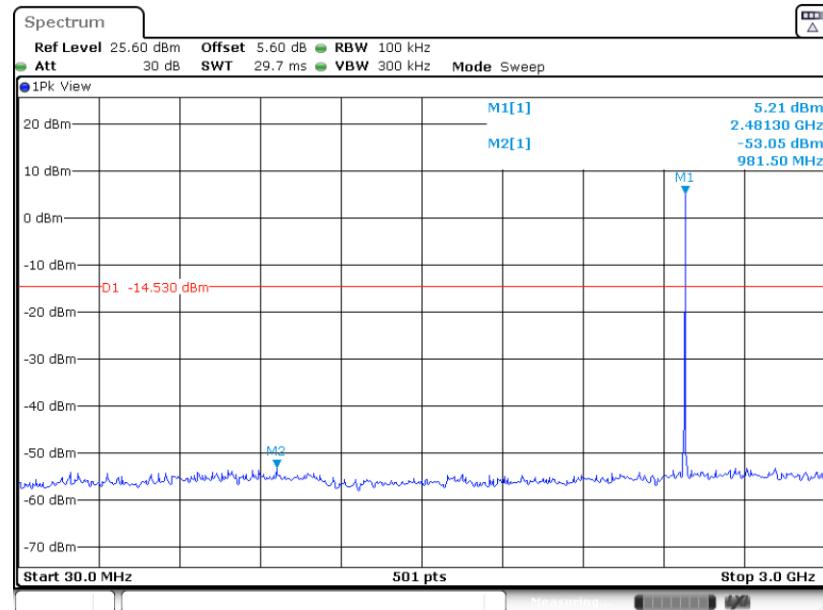
GFSK Channel 19





Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

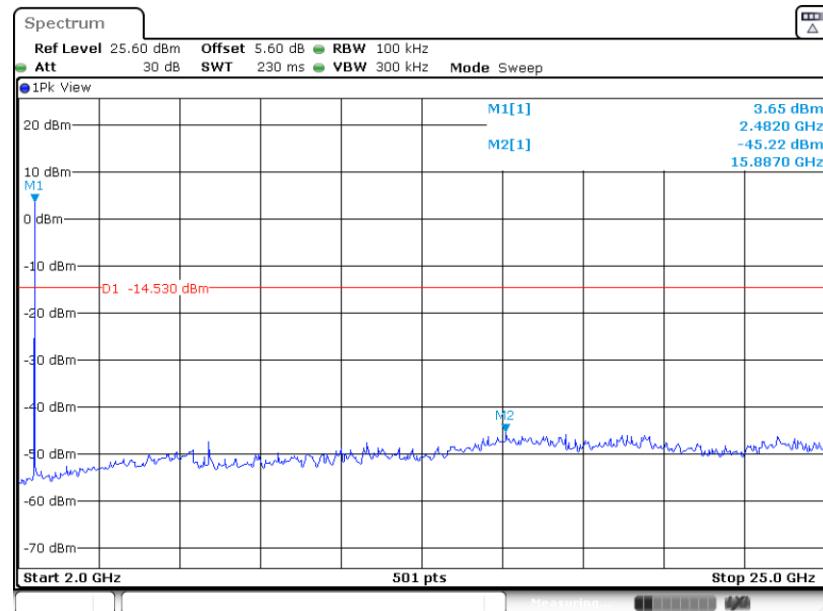
GFSK Channel 39



Date: 30.MAY.2023 03:26:36

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

GFSK Channel 39

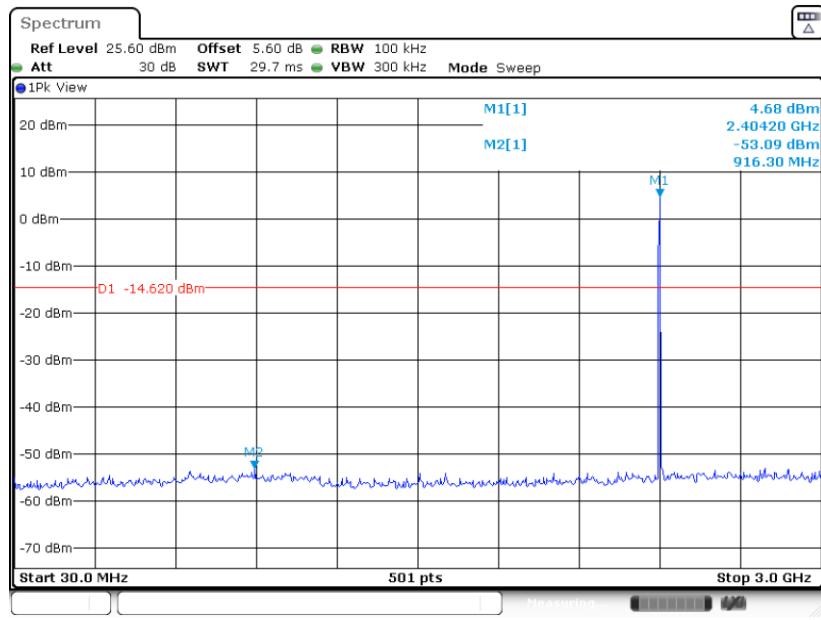


Date: 30.MAY.2023 03:26:56

Bluetooth LE 2Mbps

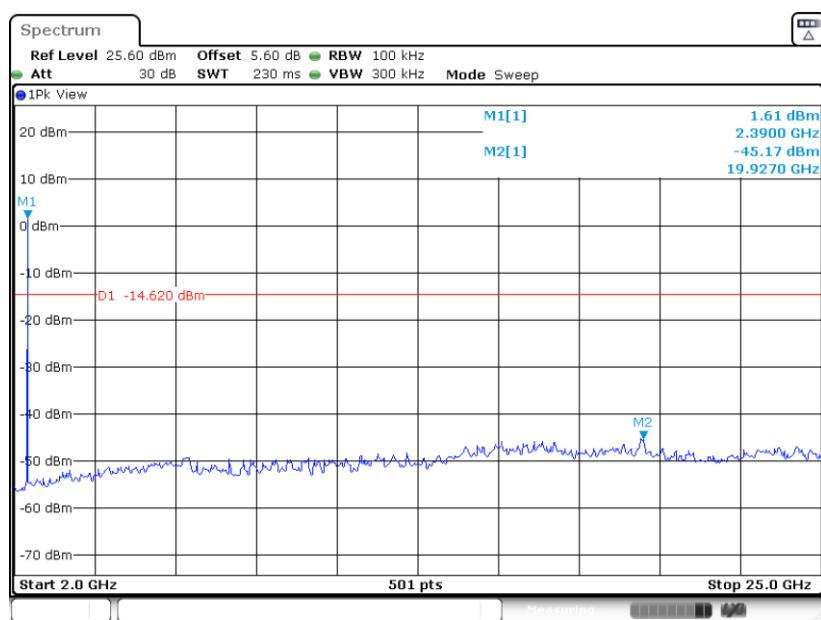
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

GFSK Channel 00



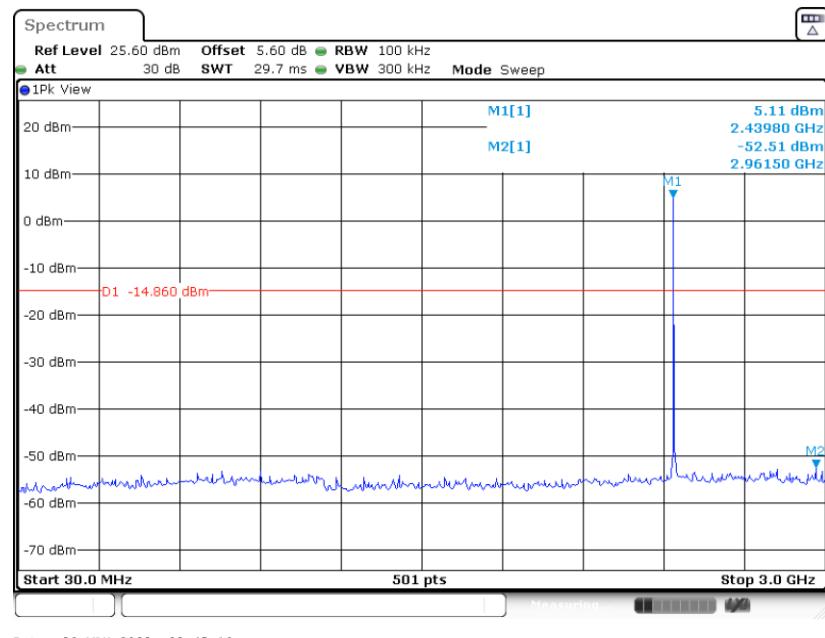
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

GFSK Channel 00



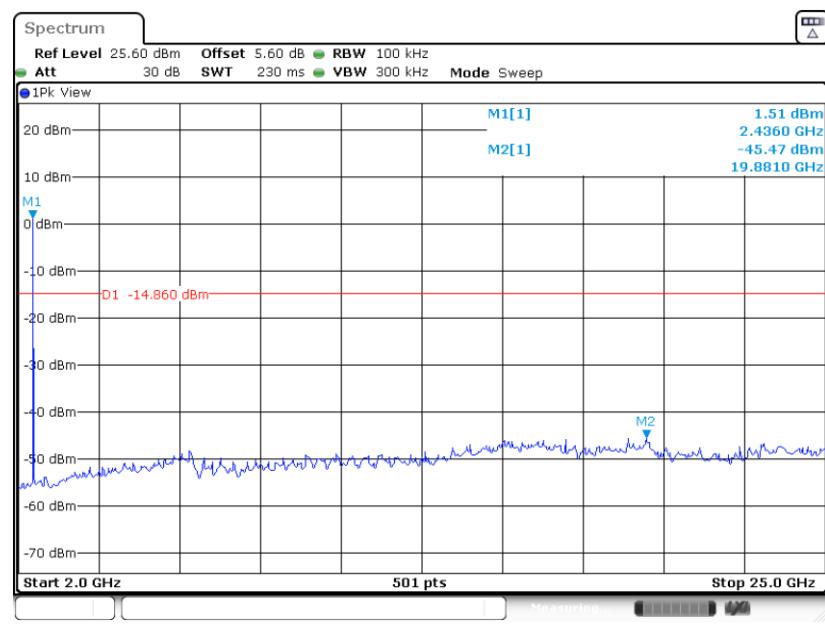
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

GFSK Channel 19



Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

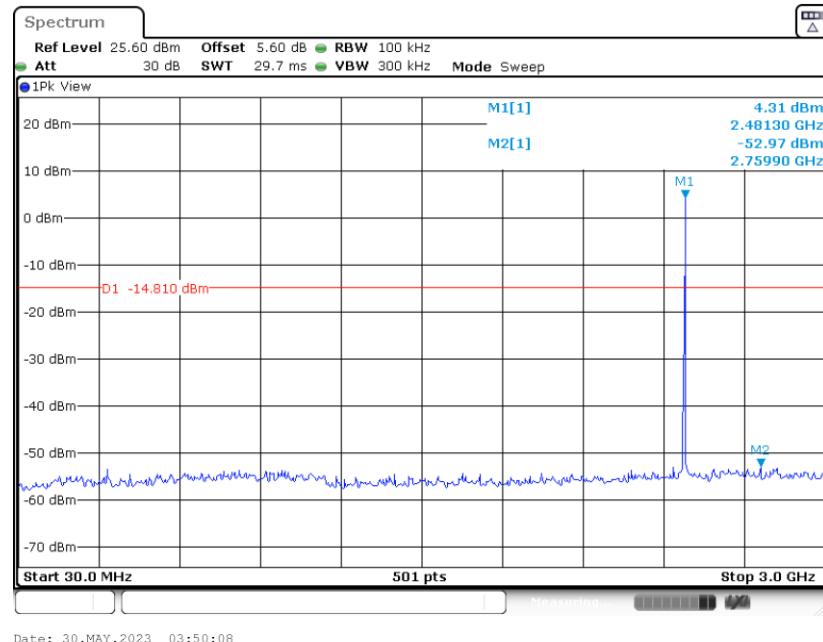
GFSK Channel 19





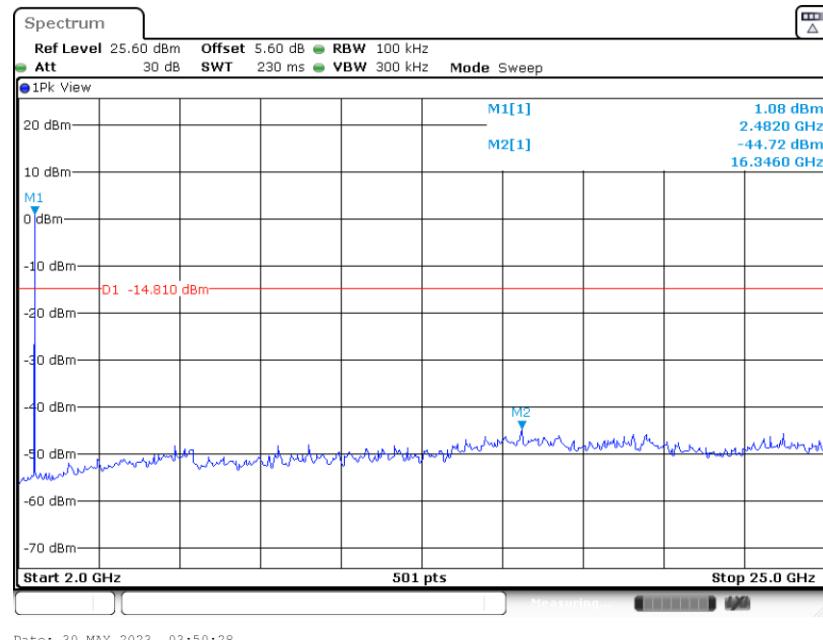
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

GFSK Channel 39



Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

GFSK Channel 39





3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency (MHz) | Field Strength (microvolts/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 |

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.



3.5.3 Test Procedures

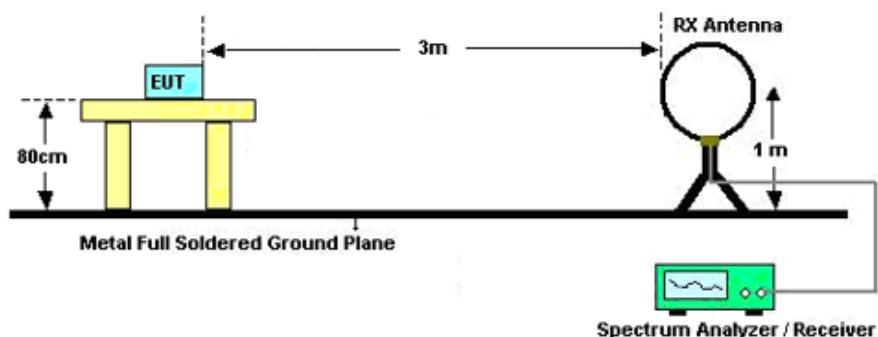
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

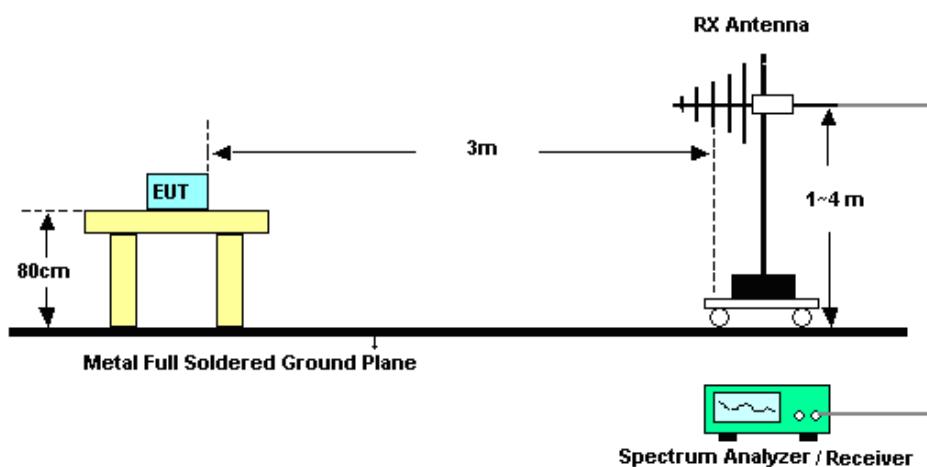
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

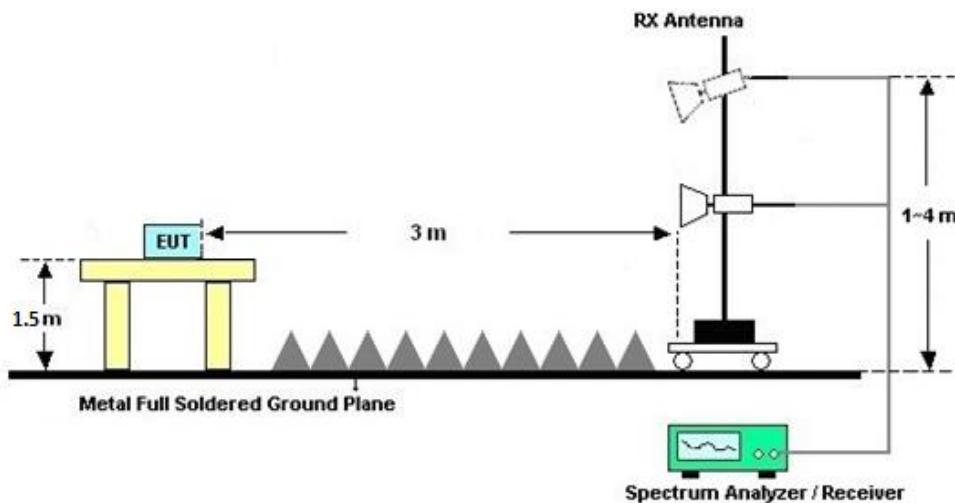
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C



3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, 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 of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

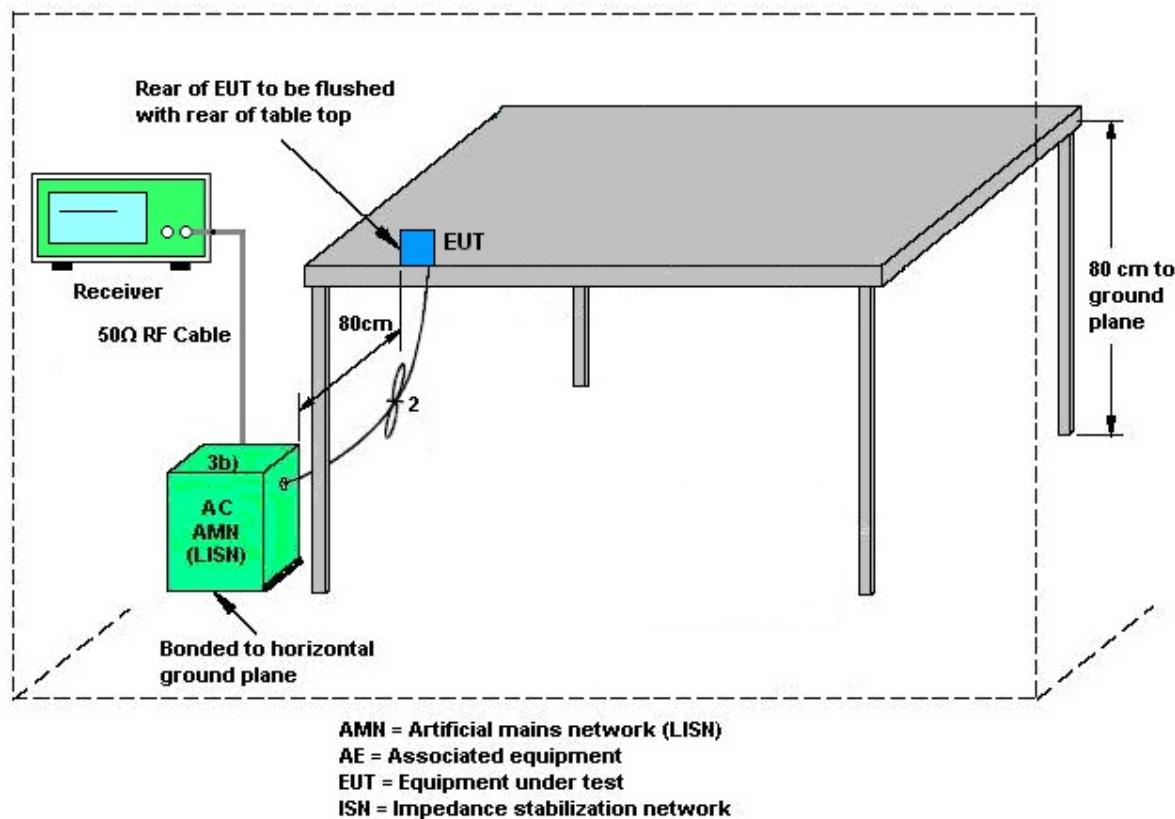
3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|--------------|-------------|---------------|-------------------------|------------------|---------------------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSV40 | 101040 | 10Hz~40GHz | Oct. 12, 2022 | May 30, 2023~May 31, 2023 | Oct. 11, 2023 | Conducted (TH01-KS) |
| Power Meter | Anritsu | ML2495A | 1005002 | 50MHz Bandwidth | Jan. 05, 2023 | May 30, 2023~May 31, 2023 | Jan. 04, 2024 | Conducted (TH01-KS) |
| Pulse Power Senor | Anritsu | MA2411B | 0917070 | 300MHz~40GHz | Jan. 05, 2023 | May 30, 2023~May 31, 2023 | Jan. 04, 2024 | Conducted (TH01-KS) |
| EMI Test Receiver | Keysight | N9038A | MY572901 51 | 3Hz~8.5GHz; Max 30dBm | Jul. 11, 2022 | May 16, 2023~May 24, 2023 | Jul. 10, 2023 | Radiation (03CH08-KS) |
| Spectrum Analyzer | R&S | FSV40 | 101932 | 10kHz~40GHz; Max 30dBm | Oct. 12, 2022 | May 16, 2023~May 24, 2023 | Oct. 11, 2023 | Radiation (03CH08-KS) |
| Loop Antenna | R&S | HFH2-Z2 | 100321 | 9kHz~30MHz | Oct. 16, 2022 | May 16, 2023~May 24, 2023 | Oct. 15, 2023 | Radiation (03CH08-KS) |
| Bilog Antenna | TESEQ& VGT | CBL 61110 | 59915 | 30MHz-1GHz | Aug. 26, 2022 | May 16, 2023~May 24, 2023 | Aug. 25, 2023 | Radiation (03CH08-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00240138 | 1GHz~18GHz | Jul. 08, 2022 | May 16, 2023~May 24, 2023 | Jul. 07, 2023 | Radiation (03CH08-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101070 | 18GHz~40GHz | Jan. 08, 2023 | May 16, 2023~May 24, 2023 | Jan. 07, 2024 | Radiation (03CH08-KS) |
| Amplifier | SONOMA | 310N | 413741 | 9KHz-1GHz | Jan. 05, 2023 | May 16, 2023~May 24, 2023 | Jan. 04, 2024 | Radiation (03CH08-KS) |
| high gain Amplifier | EM | EM01G18GA | 060845 | 1Ghz-18Ghz | Jan. 05, 2023 | May 16, 2023~May 24, 2023 | Jan. 04, 2024 | Radiation (03CH08-KS) |
| Amplifier | EM | EM01G18GA | 060834 | 1Ghz-18Ghz | Oct. 12, 2022 | May 16, 2023~May 24, 2023 | Oct. 11, 2023 | Radiation (03CH08-KS) |
| Amplifier | MITEQ | EM18G40GG A | 060728 | 18~40GHz | Jan. 05, 2023 | May 16, 2023~May 24, 2023 | Jan. 04, 2024 | Radiation (03CH08-KS) |
| AC Power Source | Chroma | 61601 | 616010002 473 | N/A | NCR | May 16, 2023~May 24, 2023 | NCR | Radiation (03CH08-KS) |
| Turn Table | EM | EM 1000-T | N/A | 0~360 degree | NCR | May 16, 2023~May 24, 2023 | NCR | Radiation (03CH08-KS) |
| Antenna Mast | EM | EM 1000-A | N/A | 1 m~4 m | NCR | May 16, 2023~May 24, 2023 | NCR | Radiation (03CH08-KS) |
| EMI Receiver | R&S | ESCI7 | 100768 | 9kHz~7GHz; | May 16, 2023 | May 30, 2023~May 31, 2023 | May 15, 2024 | Conduction (CO01-KS) |
| AC LISN (for auxiliary equipment) | MessTec | AN3016 | 060103 | 9kHz~30MHz | Oct. 13, 2022 | May 30, 2023~May 31, 2023 | Oct. 12, 2023 | Conduction (CO01-KS) |
| AC LISN | MessTec | AN3016 | 060105 | 9kHz~30MHz | May 16, 2023 | May 30, 2023~May 31, 2023 | May 15, 2024 | Conduction (CO01-KS) |
| AC Power Source | Chroma | 61602 | ABP00000 0811 | AC 0V~300V, 45Hz~1000Hz | Oct. 12, 2022 | May 30, 2023~May 31, 2023 | Oct. 11, 2023 | Conduction (CO01-KS) |

NCR: No Calibration Required



5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

| Test Item | Uncertainty |
|----------------------------------|---------------|
| Conducted Power | ± 0.46 dB |
| Conducted Emissions | ± 0.48 dB |
| Occupied Channel Bandwidth | ± 0.1 % |
| Conducted Power Spectral Density | ± 0.40 dB |

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$) | 2.94dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$) | 6.28dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$) | 4.90dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$) | 5.26dB |
|---|--------|

----- THE END -----



Appendix A. Conducted Test Results

Bluetooth Low Energy

| | | | | | | | | |
|----------------|---------------------|--|--|--|--------------------|-------|--|----|
| Test Engineer: | Jacob Zhang | | | | Temperature: | 20~26 | | °C |
| Test Date: | 2023/5/30~2023/5/31 | | | | Relative Humidity: | 40~51 | | % |

BLE1M**TEST RESULTS DATA****6dB and 99% Occupied Bandwidth**

| Mod. | Data Rate | N _{TX} | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----------------|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE | 1Mbps | 1 | 0 | 2402 | 1.019 | 0.64 | 0.50 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 1.019 | 0.64 | 0.50 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 1.019 | 0.64 | 0.50 | Pass |

TEST RESULTS DATA**Peak Power Table**

| Mod. | Data Rate | N _{TX} | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----------------|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE | 1Mbps | 1 | 0 | 2402 | 6.76 | 30.00 | 0.73 | 7.49 | 36.00 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 6.62 | 30.00 | 0.73 | 7.35 | 36.00 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 6.78 | 30.00 | 0.73 | 7.51 | 36.00 | Pass |

TEST RESULTS DATA**Average Power Table****(Reporting Only)**

| Mod. | Data Rate | N _{TX} | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) |
|------|-----------|-----------------|-----|-------------|------------------|-------------------------------|
| BLE | 1Mbps | 1 | 0 | 2402 | 1.81 | 6.35 |
| BLE | 1Mbps | 1 | 19 | 2440 | 1.81 | 6.26 |
| BLE | 1Mbps | 1 | 39 | 2480 | 1.81 | 6.38 |

TEST RESULTS DATA**Peak Power Density**

| Mod. | Data Rate | N _{TX} | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----------------|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE | 1Mbps | 1 | 0 | 2402 | 5.31 | -9.69 | 0.73 | 8.00 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 5.47 | -9.52 | 0.73 | 8.00 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 5.47 | -9.48 | 0.73 | 8.00 | Pass |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Bluetooth Low Energy

| | | | | | | | |
|----------------|---------------------|--|--|--------------------|-------|--|----|
| Test Engineer: | Jacob Zhang | | | Temperature: | 20~26 | | °C |
| Test Date: | 2023/5/30~2023/5/31 | | | Relative Humidity: | 40~51 | | % |

BLE2M**TEST RESULTS DATA**
6dB and 99% Occupied Bandwidth

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE | 2Mbps | 1 | 0 | 2402 | 2.046 | 1.09 | 0.50 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 2.050 | 1.10 | 0.50 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 2.054 | 1.09 | 0.50 | Pass |

TEST RESULTS DATA
Peak Power Table

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE | 2Mbps | 1 | 0 | 2402 | 6.79 | 30.00 | 0.73 | 7.52 | 36.00 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 6.66 | 30.00 | 0.73 | 7.39 | 36.00 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 6.83 | 30.00 | 0.73 | 7.56 | 36.00 | Pass |

TEST RESULTS DATA
Average Power Table
(Reporting Only)

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) |
|------|-----------|-----|-----|-------------|------------------|-------------------------------|
| BLE | 2Mbps | 1 | 0 | 2402 | 4.39 | 6.26 |
| BLE | 2Mbps | 1 | 19 | 2440 | 4.39 | 6.13 |
| BLE | 2Mbps | 1 | 39 | 2480 | 4.39 | 6.30 |

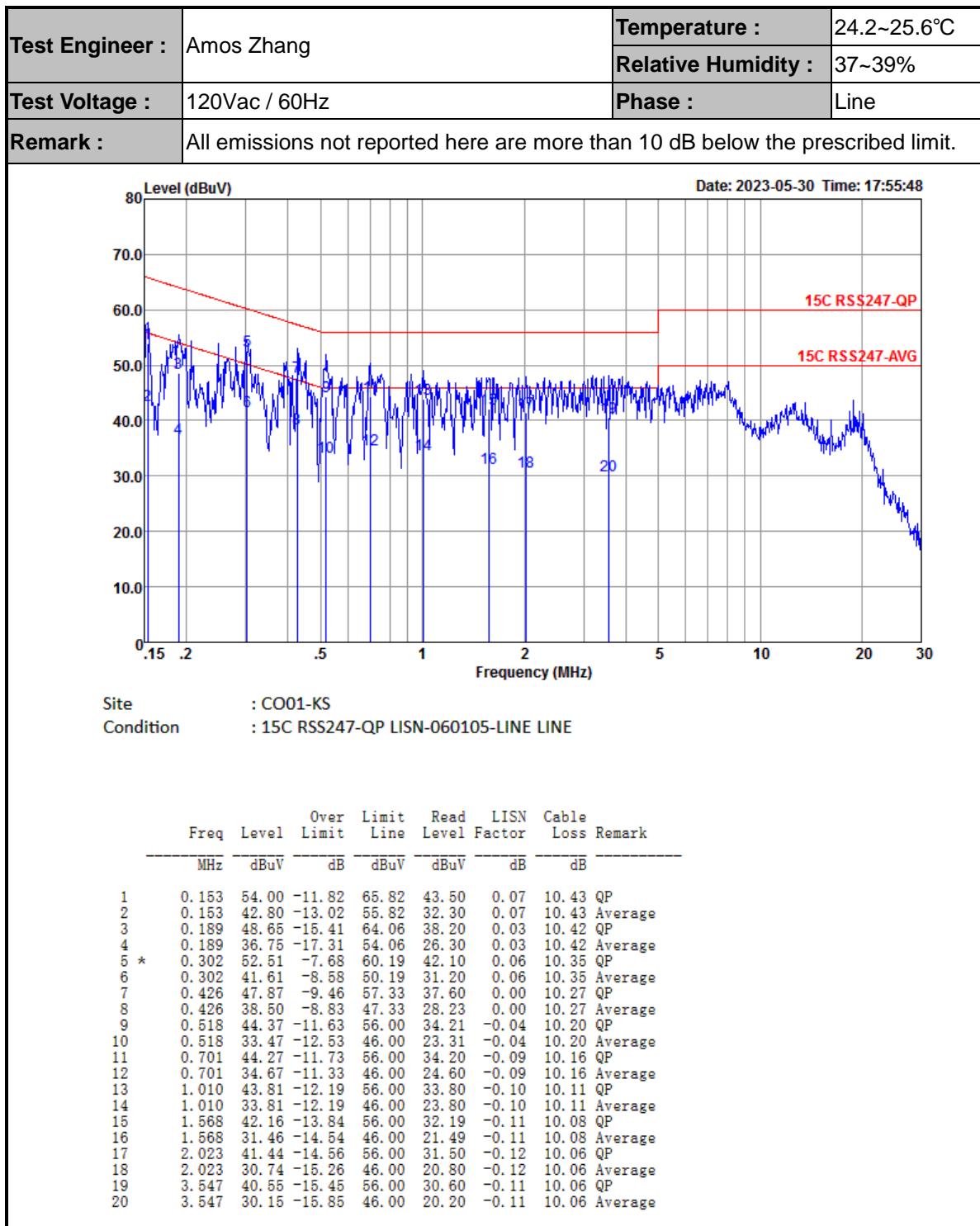
TEST RESULTS DATA
Peak Power Density

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE | 2Mbps | 1 | 0 | 2402 | 5.38 | -10.14 | 0.73 | 8.00 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 5.14 | -10.31 | 0.73 | 8.00 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 5.19 | -10.27 | 0.73 | 8.00 | Pass |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.



Appendix B. AC Conducted Emission Test Results





| Test Engineer : | Amos Zhang | Temperature : | 24.2~25.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----------------------------|---------------|-------------|---------------|---------------|----------------|---------------|----------------|---------------|--------|----|------|------|----|----|-----|-------|-------|-------|-------|-------|-------|----------|---|-------|-------|-------|-------|-------|-------|---------------|---|-------|-------|--------|-------|-------|-------|----------|---|-------|-------|--------|-------|-------|-------|---------------|---|-------|-------|--------|-------|-------|-------|----------|---|-------|-------|--------|-------|-------|-------|---------------|---|-------|-------|--------|-------|-------|-------|----------|---|-------|-------|--------|-------|-------|-------|---------------|---|-------|-------|--------|-------|-------|-------|----------|----|-------|-------|--------|-------|-------|-------|---------------|----|-------|-------|--------|-------|-------|-------|----------|----|-------|-------|--------|-------|-------|-------|---------------|----|-------|-------|--------|-------|-------|-------|----------|----|-------|-------|--------|-------|-------|-------|---------------|----|-------|-------|--------|-------|-------|-------|----------|----|-------|-------|--------|-------|-------|-------|---------------|----|-------|-------|--------|-------|-------|-------|----------|----|-------|-------|--------|-------|-------|-------|---------------|----|-------|-------|--------|-------|-------|-------|----------|----|-------|-------|--------|-------|-------|-------|---------------|
| | | Relative Humidity : | 37~39% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date: 2023-05-30 Time: 17:59:14</p> <p>15C RSS247-QP</p> <p>15C RSS247-AVG</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site | : CO01-KS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Condition | : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Freq MHz</th> <th rowspan="2">Level dBuV</th> <th>Over Limit</th> <th>Limit Line</th> <th>Read Level</th> <th>LISN Factor</th> <th>Cable Loss</th> <th>Remark</th> </tr> <tr> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr><td>1 *</td><td>0.291</td><td>53.41</td><td>-7.09</td><td>60.50</td><td>43.10</td><td>-0.04</td><td>10.35 QP</td></tr> <tr><td>2</td><td>0.291</td><td>41.61</td><td>-8.89</td><td>50.50</td><td>31.30</td><td>-0.04</td><td>10.35 Average</td></tr> <tr><td>3</td><td>0.421</td><td>46.81</td><td>-10.61</td><td>57.42</td><td>36.60</td><td>-0.07</td><td>10.28 QP</td></tr> <tr><td>4</td><td>0.421</td><td>35.11</td><td>-12.31</td><td>47.42</td><td>24.90</td><td>-0.07</td><td>10.28 Average</td></tr> <tr><td>5</td><td>0.541</td><td>45.32</td><td>-10.68</td><td>56.00</td><td>35.20</td><td>-0.08</td><td>10.20 QP</td></tr> <tr><td>6</td><td>0.541</td><td>33.42</td><td>-12.58</td><td>46.00</td><td>23.30</td><td>-0.08</td><td>10.20 Average</td></tr> <tr><td>7</td><td>0.672</td><td>45.28</td><td>-10.72</td><td>56.00</td><td>35.20</td><td>-0.09</td><td>10.17 QP</td></tr> <tr><td>8</td><td>0.672</td><td>34.18</td><td>-11.82</td><td>46.00</td><td>24.10</td><td>-0.09</td><td>10.17 Average</td></tr> <tr><td>9</td><td>0.792</td><td>43.64</td><td>-12.36</td><td>56.00</td><td>33.60</td><td>-0.10</td><td>10.14 QP</td></tr> <tr><td>10</td><td>0.792</td><td>32.14</td><td>-13.86</td><td>46.00</td><td>22.10</td><td>-0.10</td><td>10.14 Average</td></tr> <tr><td>11</td><td>1.129</td><td>43.29</td><td>-12.71</td><td>56.00</td><td>33.30</td><td>-0.11</td><td>10.10 QP</td></tr> <tr><td>12</td><td>1.129</td><td>32.09</td><td>-13.91</td><td>46.00</td><td>22.10</td><td>-0.11</td><td>10.10 Average</td></tr> <tr><td>13</td><td>1.527</td><td>42.56</td><td>-13.44</td><td>56.00</td><td>32.60</td><td>-0.12</td><td>10.08 QP</td></tr> <tr><td>14</td><td>1.527</td><td>30.56</td><td>-15.44</td><td>46.00</td><td>20.60</td><td>-0.12</td><td>10.08 Average</td></tr> <tr><td>15</td><td>2.309</td><td>41.14</td><td>-14.86</td><td>56.00</td><td>31.20</td><td>-0.12</td><td>10.06 QP</td></tr> <tr><td>16</td><td>2.309</td><td>30.14</td><td>-15.86</td><td>46.00</td><td>20.20</td><td>-0.12</td><td>10.06 Average</td></tr> <tr><td>17</td><td>2.678</td><td>41.13</td><td>-14.87</td><td>56.00</td><td>31.20</td><td>-0.13</td><td>10.06 QP</td></tr> <tr><td>18</td><td>2.678</td><td>30.13</td><td>-15.87</td><td>46.00</td><td>20.20</td><td>-0.13</td><td>10.06 Average</td></tr> <tr><td>19</td><td>3.740</td><td>41.44</td><td>-14.56</td><td>56.00</td><td>31.50</td><td>-0.12</td><td>10.06 QP</td></tr> <tr><td>20</td><td>3.740</td><td>30.54</td><td>-15.46</td><td>46.00</td><td>20.60</td><td>-0.12</td><td>10.06 Average</td></tr> </tbody> </table> | | | | Freq MHz | Level dBuV | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark | dB | dBuV | dBuV | dB | dB | 1 * | 0.291 | 53.41 | -7.09 | 60.50 | 43.10 | -0.04 | 10.35 QP | 2 | 0.291 | 41.61 | -8.89 | 50.50 | 31.30 | -0.04 | 10.35 Average | 3 | 0.421 | 46.81 | -10.61 | 57.42 | 36.60 | -0.07 | 10.28 QP | 4 | 0.421 | 35.11 | -12.31 | 47.42 | 24.90 | -0.07 | 10.28 Average | 5 | 0.541 | 45.32 | -10.68 | 56.00 | 35.20 | -0.08 | 10.20 QP | 6 | 0.541 | 33.42 | -12.58 | 46.00 | 23.30 | -0.08 | 10.20 Average | 7 | 0.672 | 45.28 | -10.72 | 56.00 | 35.20 | -0.09 | 10.17 QP | 8 | 0.672 | 34.18 | -11.82 | 46.00 | 24.10 | -0.09 | 10.17 Average | 9 | 0.792 | 43.64 | -12.36 | 56.00 | 33.60 | -0.10 | 10.14 QP | 10 | 0.792 | 32.14 | -13.86 | 46.00 | 22.10 | -0.10 | 10.14 Average | 11 | 1.129 | 43.29 | -12.71 | 56.00 | 33.30 | -0.11 | 10.10 QP | 12 | 1.129 | 32.09 | -13.91 | 46.00 | 22.10 | -0.11 | 10.10 Average | 13 | 1.527 | 42.56 | -13.44 | 56.00 | 32.60 | -0.12 | 10.08 QP | 14 | 1.527 | 30.56 | -15.44 | 46.00 | 20.60 | -0.12 | 10.08 Average | 15 | 2.309 | 41.14 | -14.86 | 56.00 | 31.20 | -0.12 | 10.06 QP | 16 | 2.309 | 30.14 | -15.86 | 46.00 | 20.20 | -0.12 | 10.06 Average | 17 | 2.678 | 41.13 | -14.87 | 56.00 | 31.20 | -0.13 | 10.06 QP | 18 | 2.678 | 30.13 | -15.87 | 46.00 | 20.20 | -0.13 | 10.06 Average | 19 | 3.740 | 41.44 | -14.56 | 56.00 | 31.50 | -0.12 | 10.06 QP | 20 | 3.740 | 30.54 | -15.46 | 46.00 | 20.60 | -0.12 | 10.06 Average |
| Freq MHz | Level dBuV | Over Limit | Limit Line | | | Read Level | LISN Factor | Cable Loss | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | dB | dBuV | dBuV | dB | dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 0.291 | 53.41 | -7.09 | 60.50 | 43.10 | -0.04 | 10.35 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0.291 | 41.61 | -8.89 | 50.50 | 31.30 | -0.04 | 10.35 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0.421 | 46.81 | -10.61 | 57.42 | 36.60 | -0.07 | 10.28 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 0.421 | 35.11 | -12.31 | 47.42 | 24.90 | -0.07 | 10.28 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0.541 | 45.32 | -10.68 | 56.00 | 35.20 | -0.08 | 10.20 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 0.541 | 33.42 | -12.58 | 46.00 | 23.30 | -0.08 | 10.20 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0.672 | 45.28 | -10.72 | 56.00 | 35.20 | -0.09 | 10.17 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 0.672 | 34.18 | -11.82 | 46.00 | 24.10 | -0.09 | 10.17 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 0.792 | 43.64 | -12.36 | 56.00 | 33.60 | -0.10 | 10.14 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 0.792 | 32.14 | -13.86 | 46.00 | 22.10 | -0.10 | 10.14 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 1.129 | 43.29 | -12.71 | 56.00 | 33.30 | -0.11 | 10.10 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1.129 | 32.09 | -13.91 | 46.00 | 22.10 | -0.11 | 10.10 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 1.527 | 42.56 | -13.44 | 56.00 | 32.60 | -0.12 | 10.08 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 1.527 | 30.56 | -15.44 | 46.00 | 20.60 | -0.12 | 10.08 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 2.309 | 41.14 | -14.86 | 56.00 | 31.20 | -0.12 | 10.06 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 2.309 | 30.14 | -15.86 | 46.00 | 20.20 | -0.12 | 10.06 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 2.678 | 41.13 | -14.87 | 56.00 | 31.20 | -0.13 | 10.06 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 2.678 | 30.13 | -15.87 | 46.00 | 20.20 | -0.13 | 10.06 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 3.740 | 41.44 | -14.56 | 56.00 | 31.50 | -0.12 | 10.06 QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 3.740 | 30.54 | -15.46 | 46.00 | 20.60 | -0.12 | 10.06 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note:

1. Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dB μ V) - Limit Line(dB μ V)



Appendix C. Radiated Spurious Emission Test Data

| | | | |
|-----------------|--------|---------------------|------------|
| Test Engineer : | Koi Ji | Relative Humidity : | 41 ~ 42 % |
| | | Temperature : | 22 ~ 23 °C |

Radiated Spurious Emission Test Modes

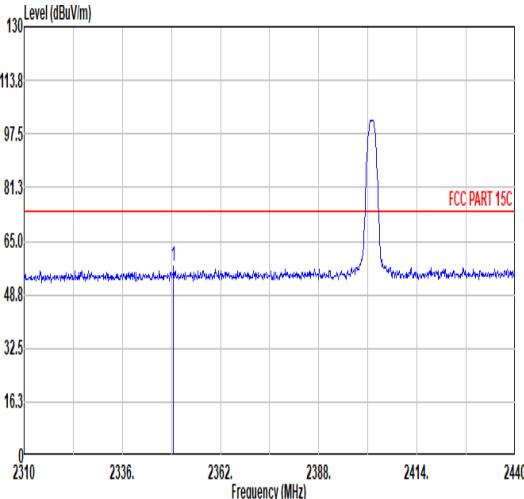
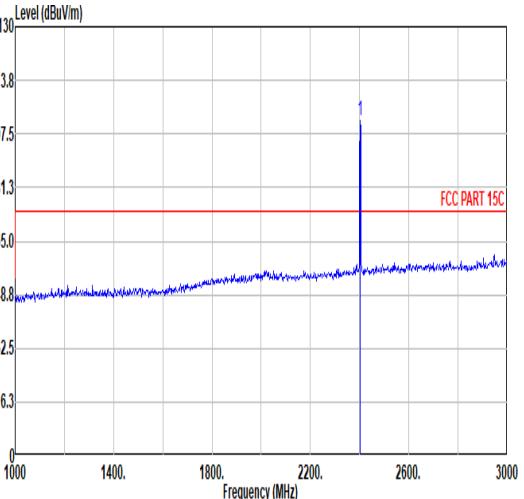
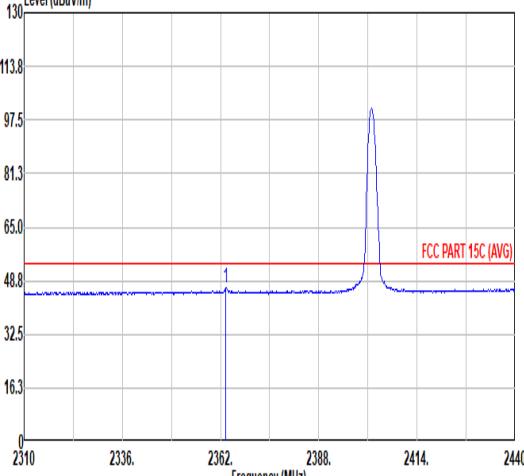
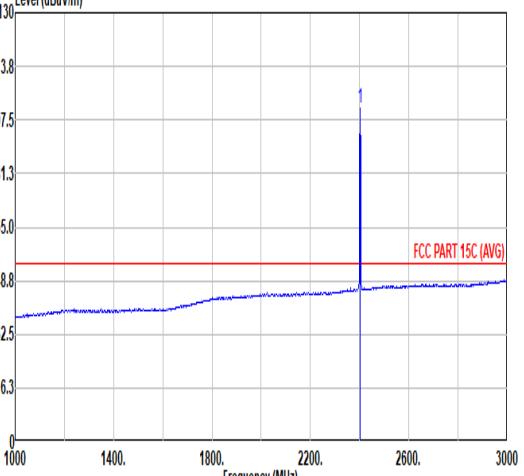
| Mode | Band (MHz) | Modulation | Channel | Frequency | Data Rate | Remark |
|--------|-------------|---|---------|-----------|-----------|-------------|
| Mode 1 | 2400-2483.5 | Bluetooth-LE | 00 | 2402 | 1Mbps | - |
| Mode 2 | 2400-2483.5 | Bluetooth-LE | 19 | 2440 | 1Mbps | - |
| Mode 3 | 2400-2483.5 | Bluetooth-LE | 39 | 2480 | 1Mbps | - |
| Mode 4 | 2400-2483.5 | Bluetooth-LE | 00 | 2402 | 2Mbps | - |
| Mode 5 | 2400-2483.5 | Bluetooth-LE | 19 | 2440 | 2Mbps | - |
| Mode 6 | 2400-2483.5 | Bluetooth-LE | 39 | 2480 | 2Mbps | - |
| Mode 7 | 2400-2483.5 | Bluetooth-LE 1M_CH00 + Zigbee_CH26 + WLAN 11n HT40_CH09 | | | | Co-location |



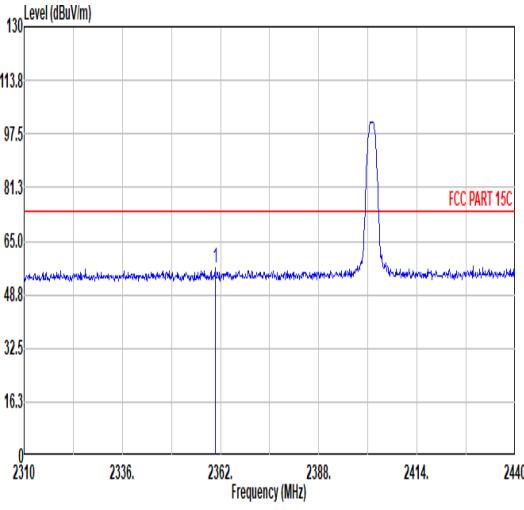
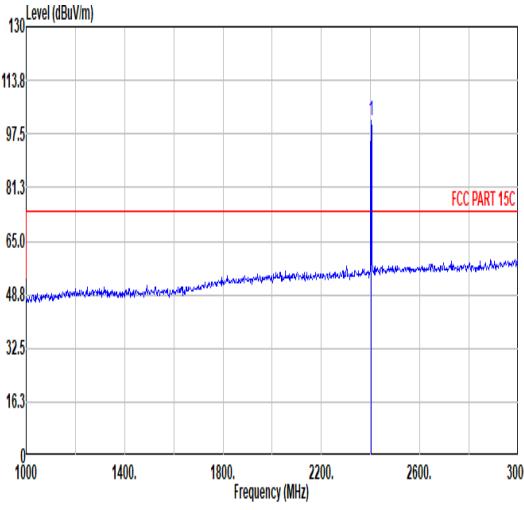
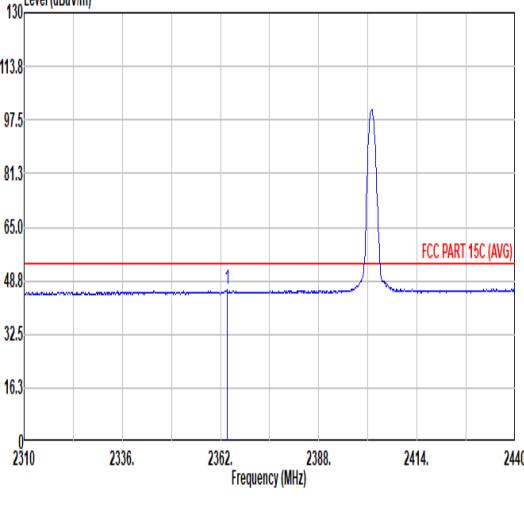
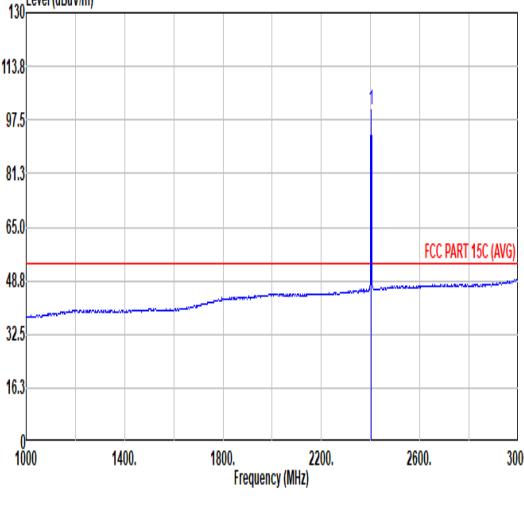
Summary of each worse mode

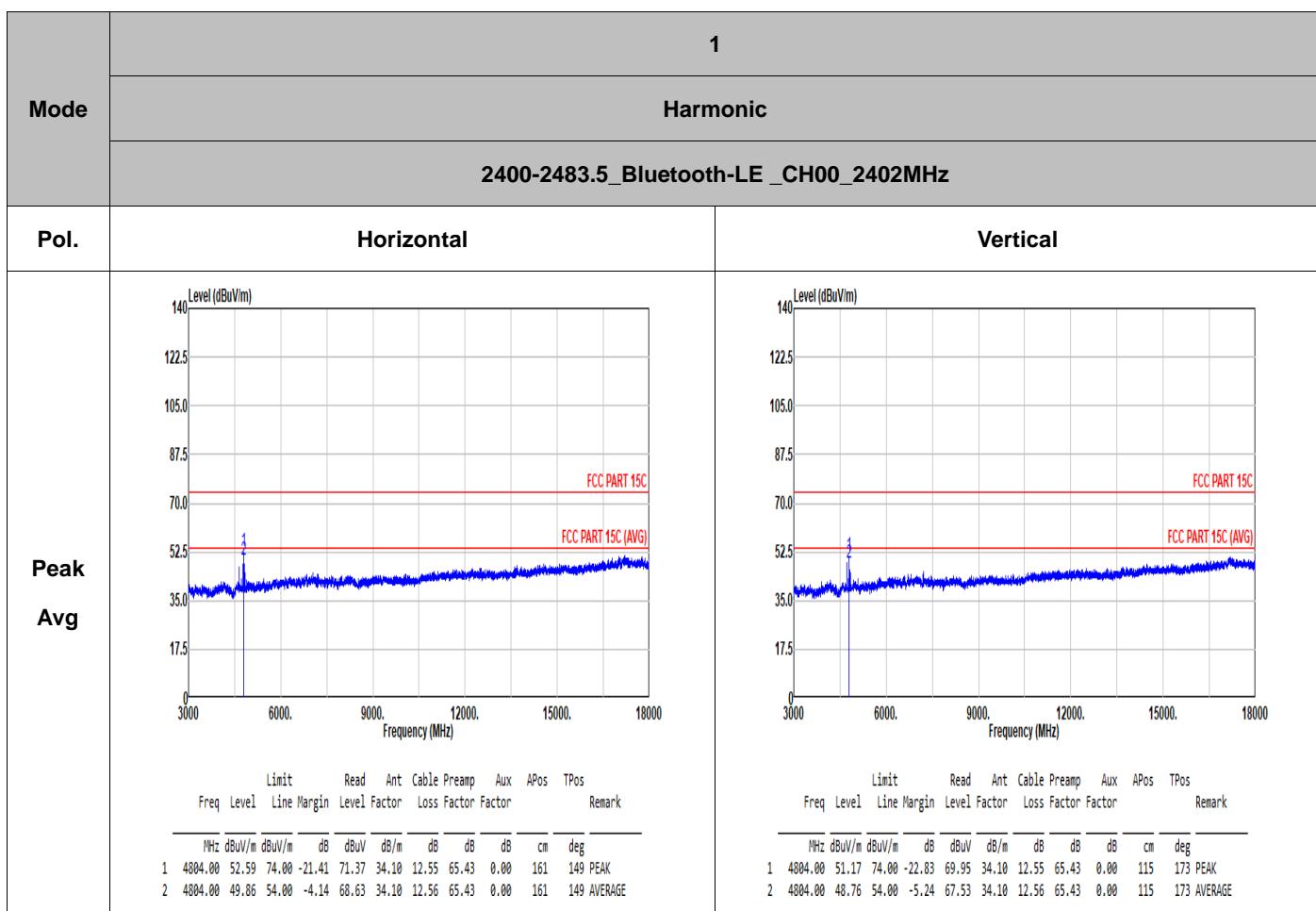
| Mode | Modulation | Ch. | Freq. (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol. | Peak Avg. | Result | Remark |
|------|--------------|-----|----------------|-------------------|-------------------|----------------|------|--------------|--------|-----------|
| 1 | Bluetooth-LE | 00 | 2363.30 | 46.54 | 54.00 | -7.46 | H | AVERAGE | Pass | Band Edge |
| | Bluetooth-LE | 00 | 4804.00 | 49.86 | 54.00 | -4.14 | H | AVERAGE | Pass | Harmonic |
| 2 | Bluetooth-LE | 19 | - | - | - | - | - | - | - | Band Edge |
| | Bluetooth-LE | 19 | 4880.00 | 49.77 | 54.00 | -4.23 | H | AVERAGE | Pass | Harmonic |
| 3 | Bluetooth-LE | 39 | 2483.50 | 48.00 | 54.00 | -6.00 | V | AVERAGE | Pass | Band Edge |
| | Bluetooth-LE | 39 | 4960.00 | 47.37 | 54.00 | -6.63 | H | AVERAGE | Pass | Harmonic |
| 4 | Bluetooth-LE | 00 | 2364.08 | 46.74 | 54.00 | -7.26 | V | AVERAGE | Pass | Band Edge |
| | Bluetooth-LE | 00 | 4804.00 | 49.71 | 54.00 | -4.29 | H | AVERAGE | Pass | Harmonic |
| 5 | Bluetooth-LE | 19 | - | - | - | - | - | - | - | Band Edge |
| | Bluetooth-LE | 19 | 4880.00 | 49.09 | 54.00 | -4.91 | H | AVERAGE | Pass | Harmonic |
| 6 | Bluetooth-LE | 39 | 2483.50 | 49.64 | 54.00 | -4.36 | V | AVERAGE | Pass | Band Edge |
| | Bluetooth-LE | 39 | 4960.00 | 46.69 | 54.00 | -7.31 | H | AVERAGE | Pass | Harmonic |
| 7 | Bluetooth-LE | 00 | 2323.65 | 46.22 | 54 | -7.78 | H | Average | Pass | Band Edge |
| | Bluetooth-LE | 00 | 4804.00 | 48.33 | 74.00 | -25.67 | V | Peak | Pass | Harmonic |

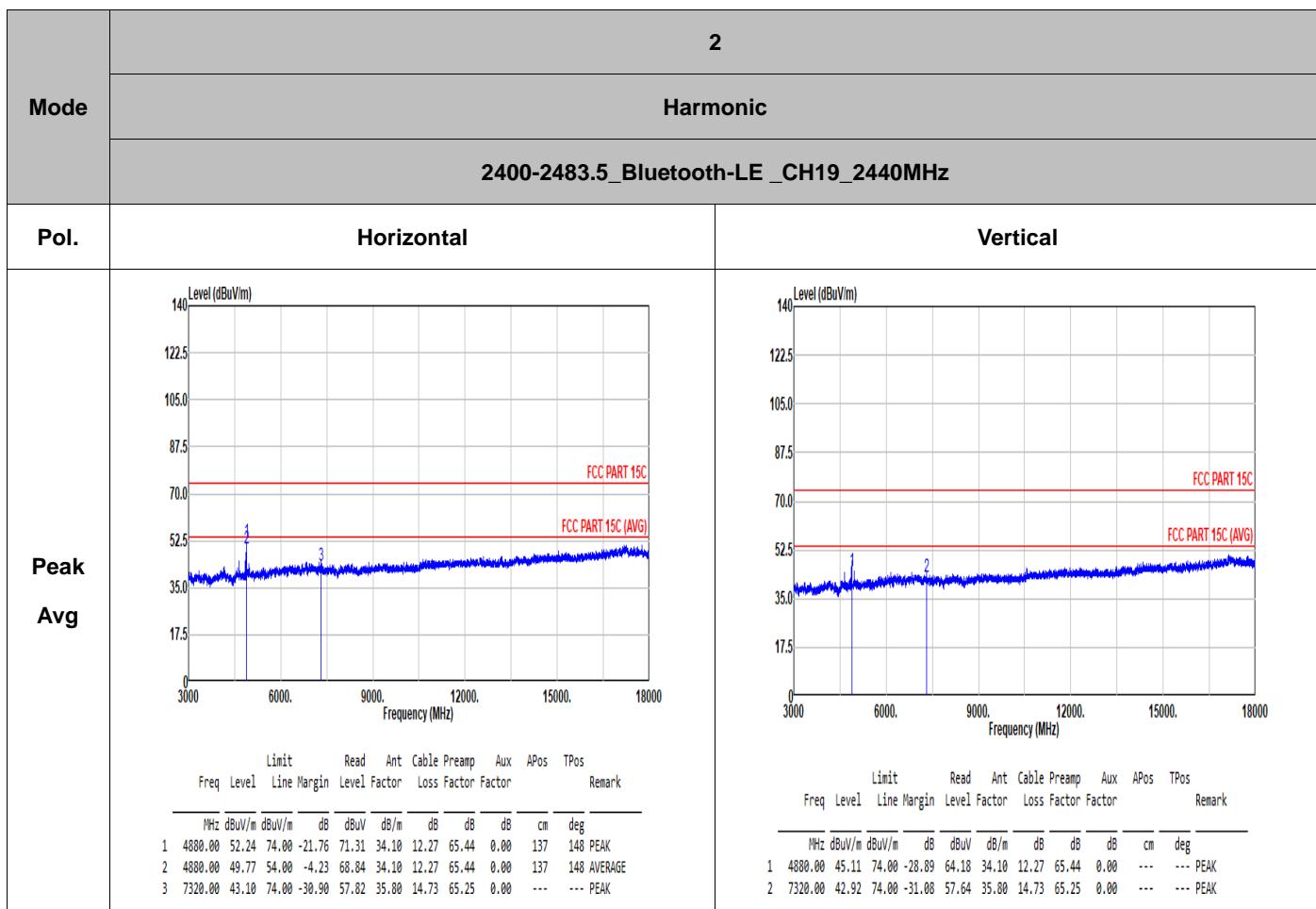


| Mode | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--------------|-------------|--------|--------|--------|--------|---------------------|--|--|------|-------|-------------|------|-----|-------|--------|-----|------|------|------|-------|-------------|--------------|-------------|--------|--------|--------|--------|--|---|---------|-------|-------|--------|-------|-------|------|-------|---------------------|--|-----|--------|--------|----|------|------|----|----|--------|--|---|--|--|--|--|--|--|--|--|--|------|-------|-------------|------|-----|-------|--------|-----|------|------|------|-------|-------------|--------------|-------------|--------|--------|--------|--------|--|---|---------|--------|-------|-------|-------|-------|------|-------|---------------------|--|-----|--------|--------|----|------|------|----|----|--------|
| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_CH00_2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Factor</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2349.52</td> <td>57.22</td> <td>74.00</td> <td>-16.78</td> <td>41.60</td> <td>31.89</td> <td>8.65</td> <td>30.92</td> <td>6.00 146 56 PEAK</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | Remark | | 1 | 2349.52 | 57.22 | 74.00 | -16.78 | 41.60 | 31.89 | 8.65 | 30.92 | 6.00 146 56 PEAK | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Factor</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>101.71</td> <td>-----</td> <td>-----</td> <td>85.77</td> <td>32.00</td> <td>8.81</td> <td>30.87</td> <td>6.00 146 56 PEAK</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | Remark | | 1 | 2402.00 | 101.71 | ----- | ----- | 85.77 | 32.00 | 8.81 | 30.87 | 6.00 146 56 PEAK | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg |
| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2349.52 | 57.22 | 74.00 | -16.78 | 41.60 | 31.89 | 8.65 | 30.92 | 6.00 146 56 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 101.71 | ----- | ----- | 85.77 | 32.00 | 8.81 | 30.87 | 6.00 146 56 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Factor</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2363.30</td> <td>46.54</td> <td>54.00</td> <td>-7.46</td> <td>30.84</td> <td>31.92</td> <td>8.69</td> <td>30.91</td> <td>6.00 146 56 AVERAGE</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | Remark | | 1 | 2363.30 | 46.54 | 54.00 | -7.46 | 30.84 | 31.92 | 8.69 | 30.91 | 6.00 146 56 AVERAGE | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Factor</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>100.91</td> <td>-----</td> <td>-----</td> <td>84.97</td> <td>32.00</td> <td>8.81</td> <td>30.87</td> <td>6.00 146 56 AVERAGE</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | Remark | | 1 | 2402.00 | 100.91 | ----- | ----- | 84.97 | 32.00 | 8.81 | 30.87 | 6.00 146 56 AVERAGE | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg |
| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2363.30 | 46.54 | 54.00 | -7.46 | 30.84 | 31.92 | 8.69 | 30.91 | 6.00 146 56 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 100.91 | ----- | ----- | 84.97 | 32.00 | 8.81 | 30.87 | 6.00 146 56 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

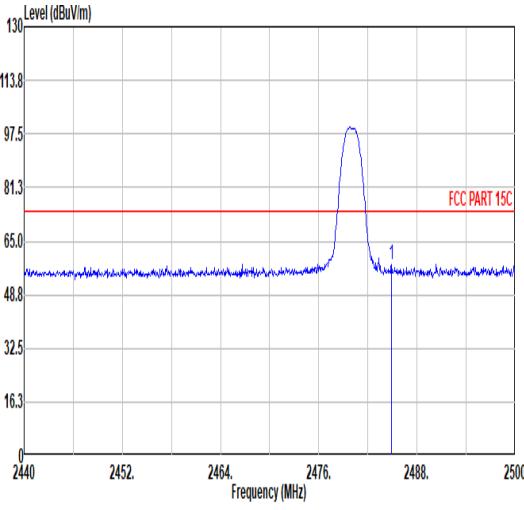
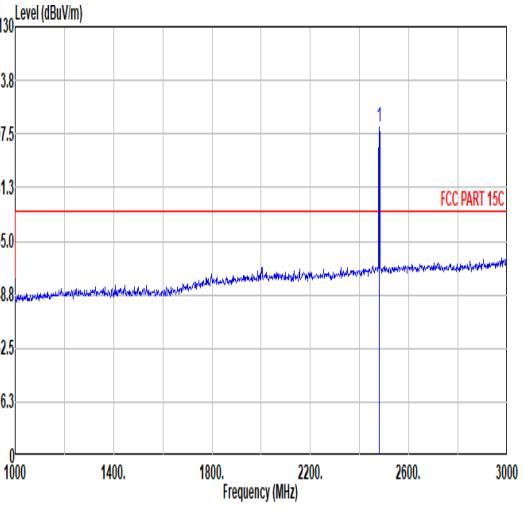
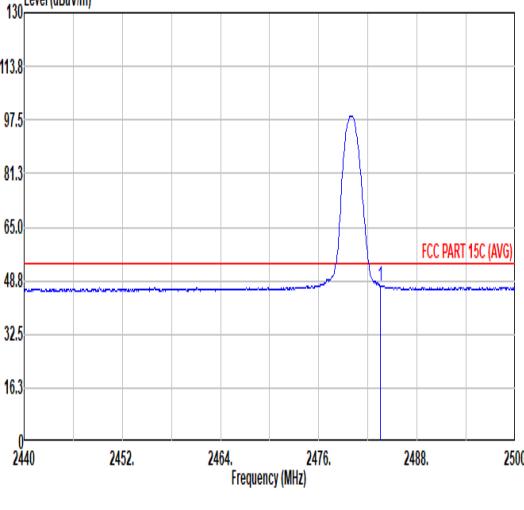
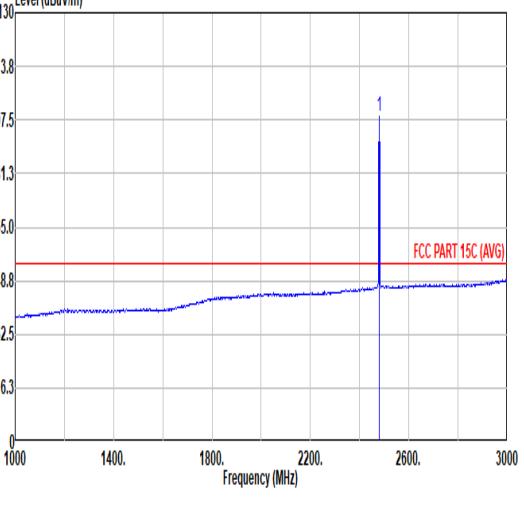


| Mode | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--------|--------|--------|--------|--------|--------|---------------------|--|--|------|-------|-------------|------|-----|-------|--------|-----|------|------|------|-------|-------------|-------|--------|--------|------|--------|--------|--------|---|---------|-------|-------|--------|-------|-------|------|-------|---------------------|--|-----|--------|--------|----|------|------|----|----|--------|--|---|--|--|--|--|--|--|--|--|--|------|-------|-------------|------|-----|-------|--------|-----|------|------|------|-------|-------------|-------|--------|--------|------|--------|--------|--------|---|---------|--------|-------|-------|-------|-------|------|-------|---------------------|--|-----|--------|--------|----|------|------|----|----|--------|
| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_CH00_2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2363.82 | 45.95 | 54.00 | -8.05 | 30.25 | 31.92 | 8.69 | 30.91 | 6.00 296 54 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | 2402.00 | 100.58 | ----- | ----- | 84.64 | 32.00 | 8.81 | 30.87 | 6.00 296 54 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

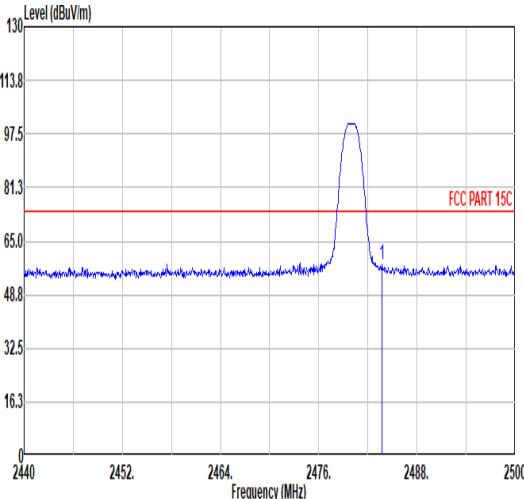
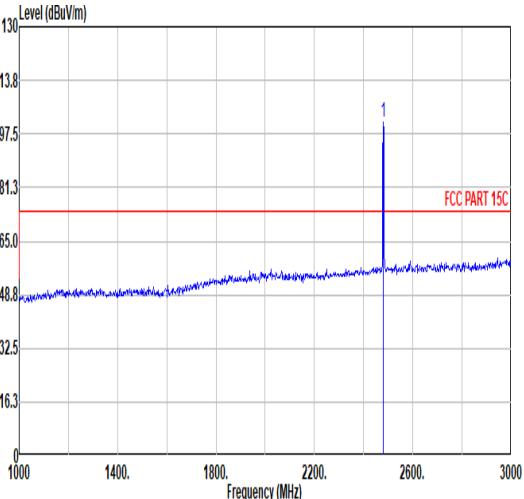
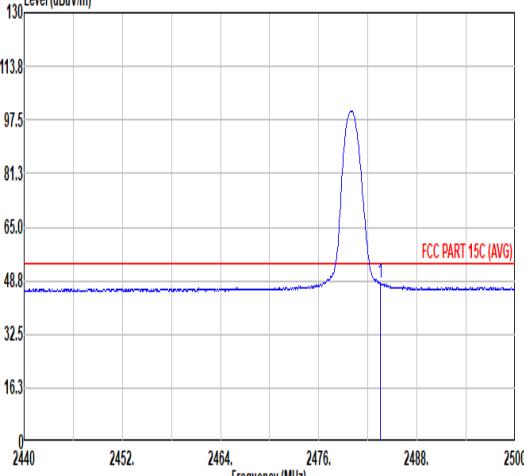
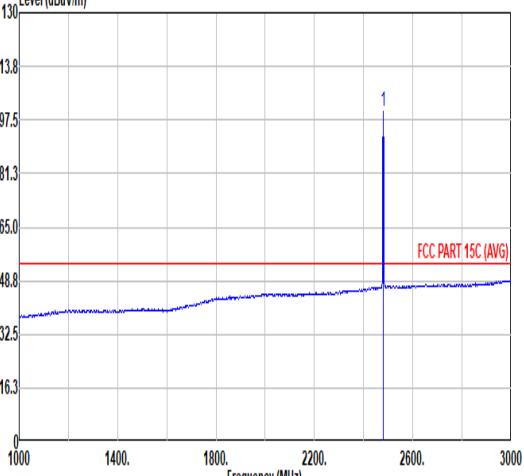


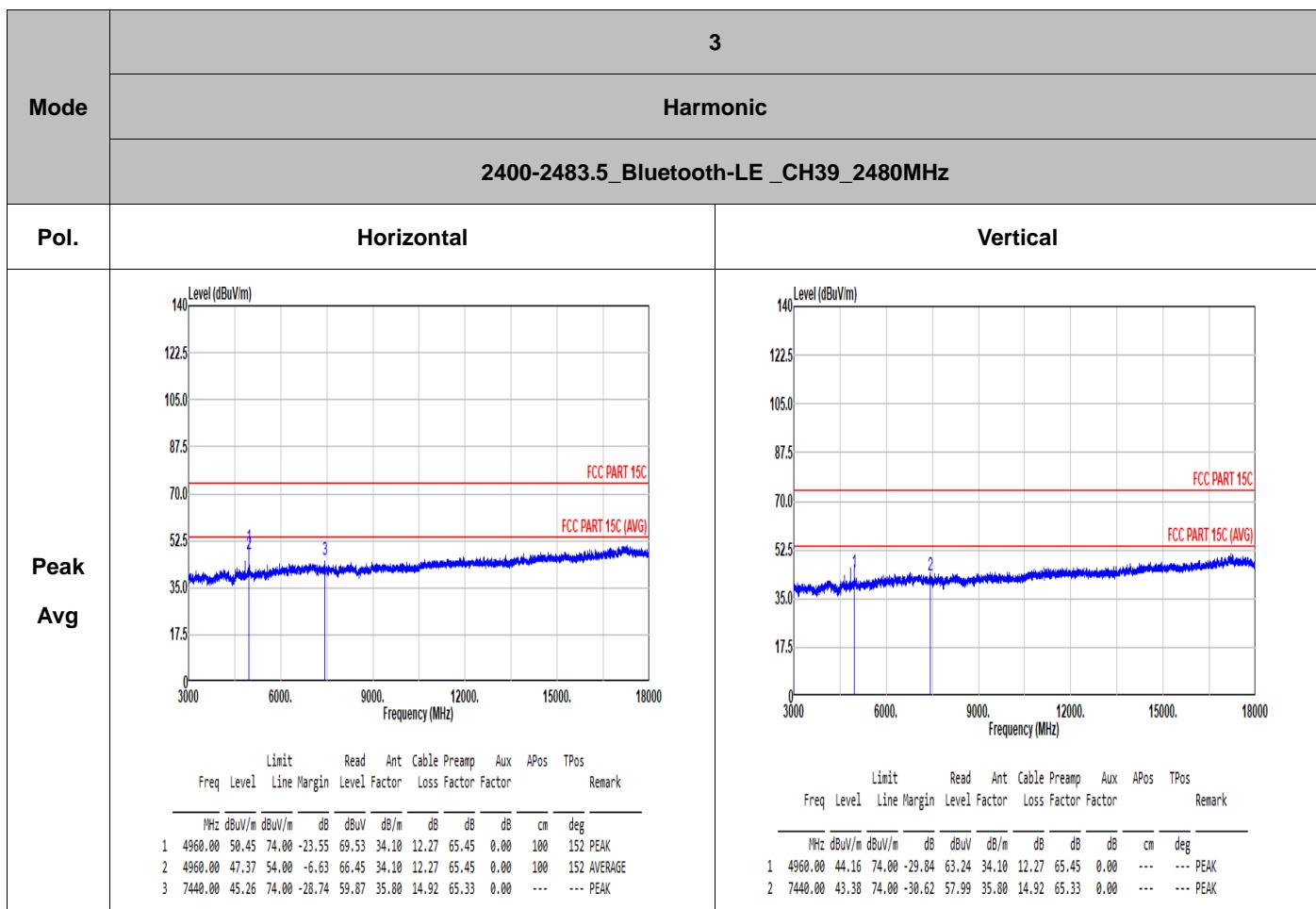




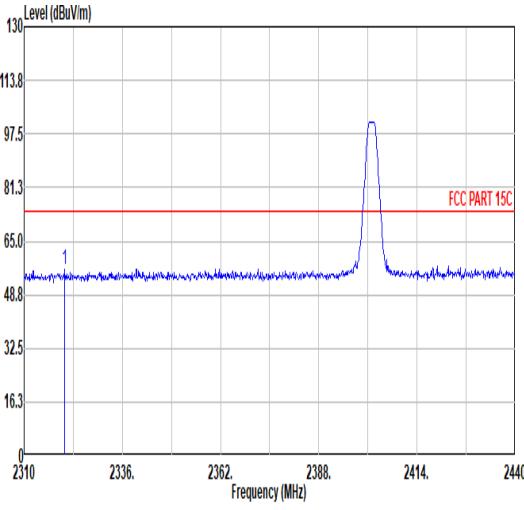
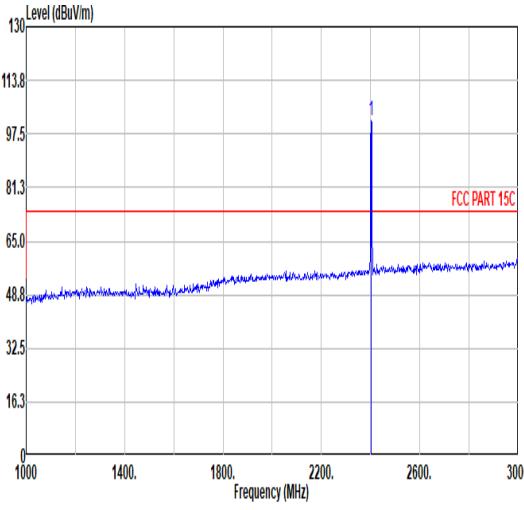
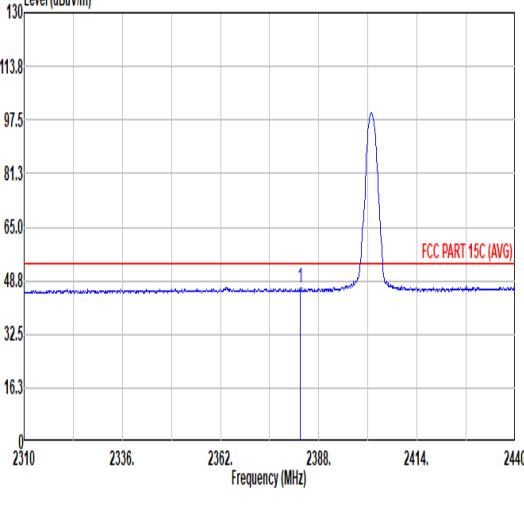
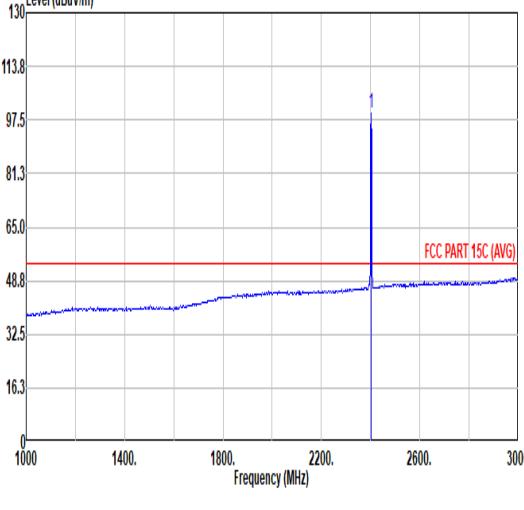
| Mode | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|--------|--------|--------|--------|--------|--------|----------------------|------|--------|------|-------------|-------|--------|--------|------|--------|--------|--------|--------|-----|-----|-----|----|----|----|----|----|-----|--|---|---------|-------|-------|--------|-------|-------|------|-------|----------------------|---|------|-------|------|-----|-------|--------|-----|------|------|--------|------|-------------|-------|--------|--------|------|--------|--------|--------|--------|-----|-----|-----|----|----|----|----|----|-----|--|---|---------|-------|-------|-------|-------|-------|------|-------|----------------------|
| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE _CH39_2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dBm | dB | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dBm | dB | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 99.58 | ----- | ----- | 83.08 | 32.12 | 9.04 | 30.66 | 6.00 100 180 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg |  <table border="1"><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2483.56</td><td>47.27</td><td>54.00</td><td>-6.73</td><td>30.74</td><td>32.13</td><td>9.05</td><td>30.65</td><td>6.00 100 180 AVERAGE</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBm | dBm | dB | dB | dB | dB | cm | deg | | 1 | 2483.56 | 47.27 | 54.00 | -6.73 | 30.74 | 32.13 | 9.05 | 30.65 | 6.00 100 180 AVERAGE |  <table border="1"><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>98.75</td><td>-----</td><td>-----</td><td>82.25</td><td>32.12</td><td>9.04</td><td>30.66</td><td>6.00 100 180 AVERAGE</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBm | dBm | dB | dB | dB | dB | cm | deg | | 1 | 2480.00 | 98.75 | ----- | ----- | 82.25 | 32.12 | 9.04 | 30.66 | 6.00 100 180 AVERAGE |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dBm | dB | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.56 | 47.27 | 54.00 | -6.73 | 30.74 | 32.13 | 9.05 | 30.65 | 6.00 100 180 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dBm | dB | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 98.75 | ----- | ----- | 82.25 | 32.12 | 9.04 | 30.66 | 6.00 100 180 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



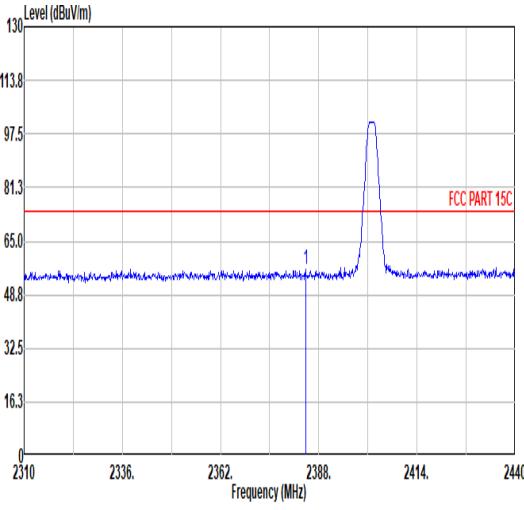
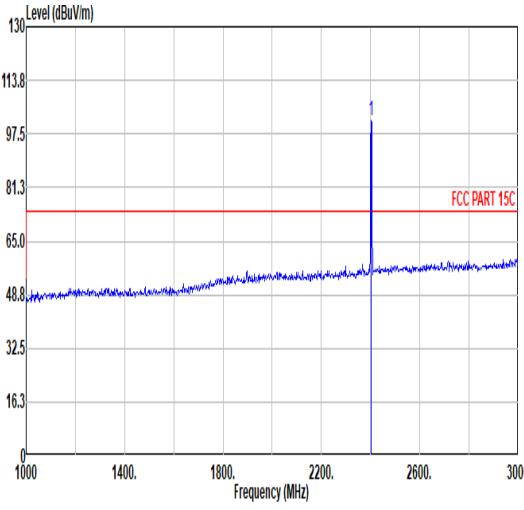
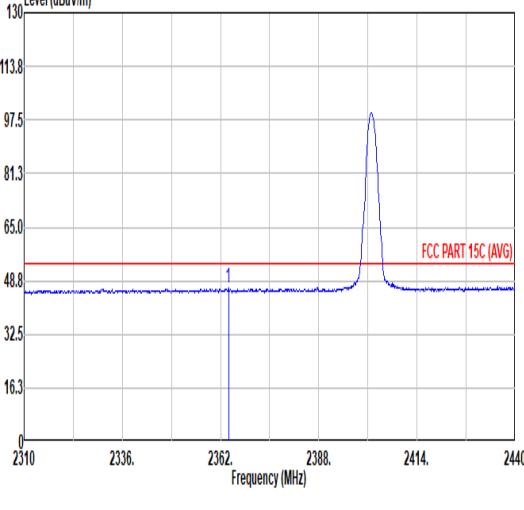
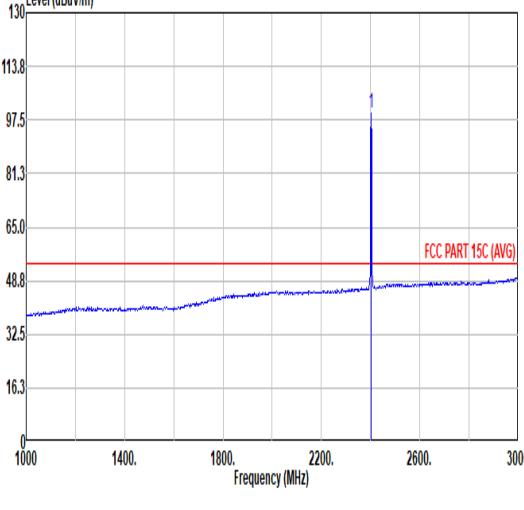
| Mode | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE _CH39_2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Margin</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.74</td> <td>57.66</td> <td>74.00</td> <td>-16.34</td> <td>41.13</td> <td>32.13</td> <td>9.05</td> <td>30.65</td> <td>6.00</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> <tr> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Margin</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2480.00</td> <td>101.01</td> <td>-----</td> <td>-----</td> <td>84.51</td> <td>32.12</td> <td>9.04</td> <td>30.66</td> <td>6.00</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> <tr> <td></td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | 1 | 2483.74 | 57.66 | 74.00 | -16.34 | 41.13 | 32.13 | 9.05 | 30.65 | 6.00 | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | 1 | 2480.00 | 101.01 | ----- | ----- | 84.51 | 32.12 | 9.04 | 30.66 | 6.00 | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Margin</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2480.00</td> <td>101.01</td> <td>-----</td> <td>-----</td> <td>84.51</td> <td>32.12</td> <td>9.04</td> <td>30.66</td> <td>6.00</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> <tr> <td></td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | 1 | 2480.00 | 101.01 | ----- | ----- | 84.51 | 32.12 | 9.04 | 30.66 | 6.00 | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | |
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| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.74 | 57.66 | 74.00 | -16.34 | 41.13 | 32.13 | 9.05 | 30.65 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 101.01 | ----- | ----- | 84.51 | 32.12 | 9.04 | 30.66 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 101.01 | ----- | ----- | 84.51 | 32.12 | 9.04 | 30.66 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Avg |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Margin</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.50</td> <td>48.00</td> <td>54.00</td> <td>-6.00</td> <td>31.47</td> <td>32.13</td> <td>9.05</td> <td>30.65</td> <td>6.00</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> <tr> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Margin</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2480.00</td> <td>100.22</td> <td>-----</td> <td>-----</td> <td>83.72</td> <td>32.12</td> <td>9.04</td> <td>30.66</td> <td>6.00</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> <tr> <td></td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | 1 | 2483.50 | 48.00 | 54.00 | -6.00 | 31.47 | 32.13 | 9.05 | 30.65 | 6.00 | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | 1 | 2480.00 | 100.22 | ----- | ----- | 83.72 | 32.12 | 9.04 | 30.66 | 6.00 | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Margin</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2480.00</td> <td>100.22</td> <td>-----</td> <td>-----</td> <td>83.72</td> <td>32.12</td> <td>9.04</td> <td>30.66</td> <td>6.00</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> <tr> <td></td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | 1 | 2480.00 | 100.22 | ----- | ----- | 83.72 | 32.12 | 9.04 | 30.66 | 6.00 | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | |
| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 48.00 | 54.00 | -6.00 | 31.47 | 32.13 | 9.05 | 30.65 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 100.22 | ----- | ----- | 83.72 | 32.12 | 9.04 | 30.66 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 100.22 | ----- | ----- | 83.72 | 32.12 | 9.04 | 30.66 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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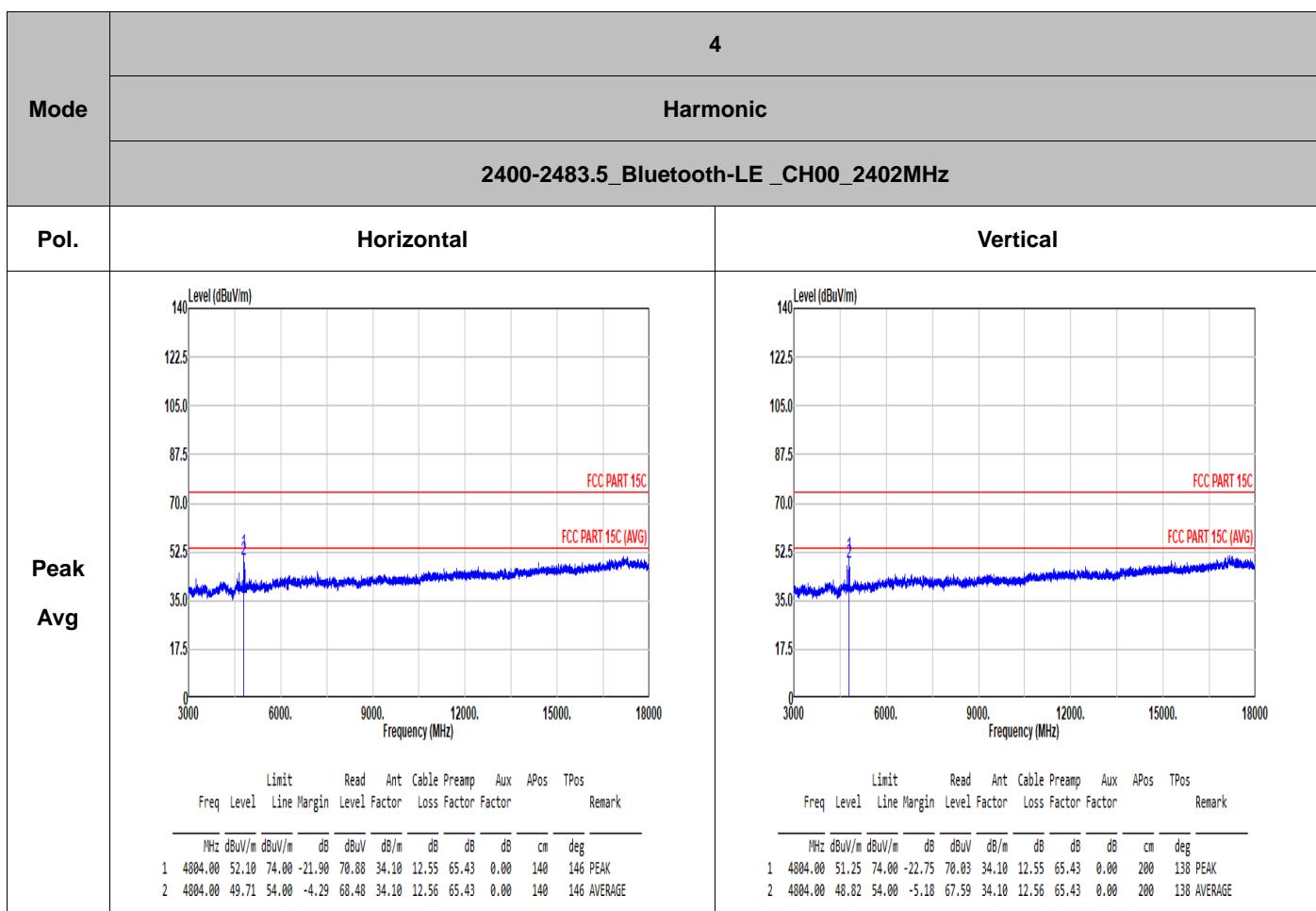


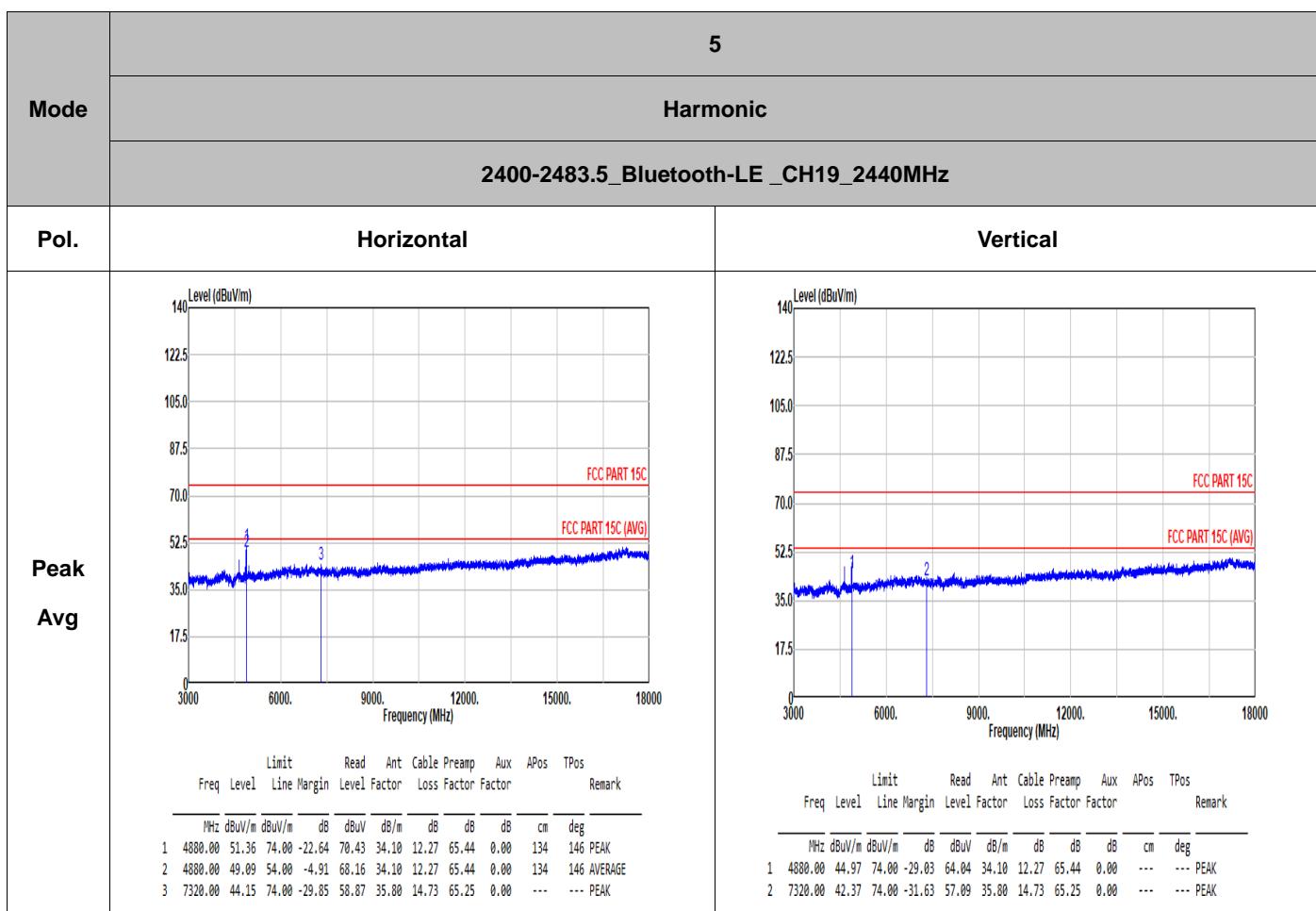


| Mode | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_CH00_2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Margin</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2328.79</td> <td>56.56</td> <td>74.00</td> <td>-17.44</td> <td>41.11</td> <td>31.83</td> <td>8.56</td> <td>30.94</td> <td>6.00 144 55 PEAK</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBm</td> <td>dBm</td> <td>dB</td> <td>dBm</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | 1 | 2328.79 | 56.56 | 74.00 | -17.44 | 41.11 | 31.83 | 8.56 | 30.94 | 6.00 144 55 PEAK | | MHz | dBm | dBm | dB | dBm | dB/m | dB | dB | cm deg |  <table border="1"> <thead> <tr> <th colspan="10">Limit Read Ant Cable Preamp Aux APos TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Margin</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>101.55</td> <td>-----</td> <td>-----</td> <td>85.61</td> <td>32.00</td> <td>8.81</td> <td>30.87</td> <td>6.00 144 55 PEAK</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBm</td> <td>dBm</td> <td>dB</td> <td>dBm</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm deg</td> </tr> </tbody> </table> | Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | 1 | 2402.00 | 101.55 | ----- | ----- | 85.61 | 32.00 | 8.81 | 30.87 | 6.00 144 55 PEAK | | MHz | dBm | dBm | dB | dBm | dB/m | dB | dB | cm deg |
| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2328.79 | 56.56 | 74.00 | -17.44 | 41.11 | 31.83 | 8.56 | 30.94 | 6.00 144 55 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dB | dBm | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 101.55 | ----- | ----- | 85.61 | 32.00 | 8.81 | 30.87 | 6.00 144 55 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dB | dBm | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2383.19 | 46.65 | 54.00 | -7.35 | 30.83 | 31.96 | 8.75 | 30.89 | 6.00 144 55 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dB | dBm | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit Read Ant Cable Preamp Aux APos TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 99.41 | ----- | ----- | 83.47 | 32.00 | 8.81 | 30.87 | 6.00 144 55 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dB | dBm | dB/m | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Mode | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|--------------|-------------|--------|-------|--------|-------|------------|------|--------|------|-------|-------------|--------------|-------------|--------|--|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|--|--|--|--|--|--|--|--|-----|------------|---|------|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|--------------|-------------|--------|--|--|--|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|------|--|--|--|--|--|--|--|--|-----|------------|
| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_CH00_2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak |  <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <table border="1"><thead><tr><th>Freq</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2384.49</td><td>56.46</td><td>74.00</td><td>-17.54</td><td>40.63</td><td>31.97</td><td>8.75</td><td>30.89</td><td>6.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>295</td><td>53 PEAK</td></tr></tbody></table> | Freq | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2384.49 | 56.46 | 74.00 | -17.54 | 40.63 | 31.97 | 8.75 | 30.89 | 6.00 | | | | | | | | | 295 | 53 PEAK |  <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <table border="1"><thead><tr><th>Freq</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2402.00</td><td>101.37</td><td>-----</td><td>-----</td><td>85.43</td><td>32.00</td><td>8.81</td><td>30.87</td><td>6.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>295</td><td>53 PEAK</td></tr></tbody></table> | Freq | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2402.00 | 101.37 | ----- | ----- | 85.43 | 32.00 | 8.81 | 30.87 | 6.00 | | | | | | | | | 295 | 53 PEAK |
| Freq | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2384.49 | 56.46 | 74.00 | -17.54 | 40.63 | 31.97 | 8.75 | 30.89 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 295 | 53 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 101.37 | ----- | ----- | 85.43 | 32.00 | 8.81 | 30.87 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 295 | 53 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg |  <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <table border="1"><thead><tr><th>Freq</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2364.08</td><td>46.74</td><td>54.00</td><td>-7.26</td><td>31.04</td><td>31.92</td><td>8.69</td><td>30.91</td><td>6.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>295</td><td>53 AVERAGE</td></tr></tbody></table> | Freq | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2364.08 | 46.74 | 54.00 | -7.26 | 31.04 | 31.92 | 8.69 | 30.91 | 6.00 | | | | | | | | | 295 | 53 AVERAGE |  <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <table border="1"><thead><tr><th>Freq</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2402.00</td><td>99.50</td><td>-----</td><td>-----</td><td>83.56</td><td>32.00</td><td>8.81</td><td>30.87</td><td>6.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>295</td><td>53 AVERAGE</td></tr></tbody></table> | Freq | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2402.00 | 99.50 | ----- | ----- | 83.56 | 32.00 | 8.81 | 30.87 | 6.00 | | | | | | | | | 295 | 53 AVERAGE |
| Freq | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2364.08 | 46.74 | 54.00 | -7.26 | 31.04 | 31.92 | 8.69 | 30.91 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 295 | 53 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 99.50 | ----- | ----- | 83.56 | 32.00 | 8.81 | 30.87 | 6.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 295 | 53 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

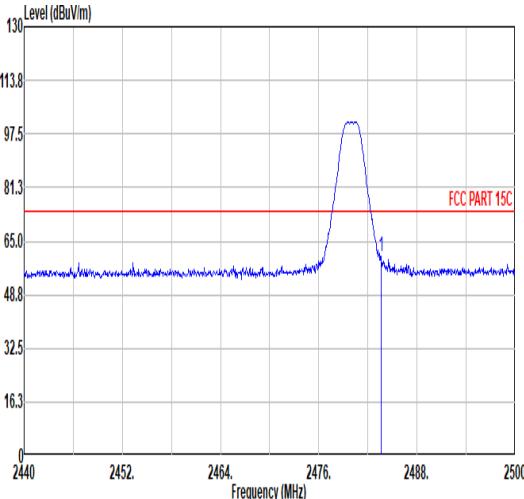
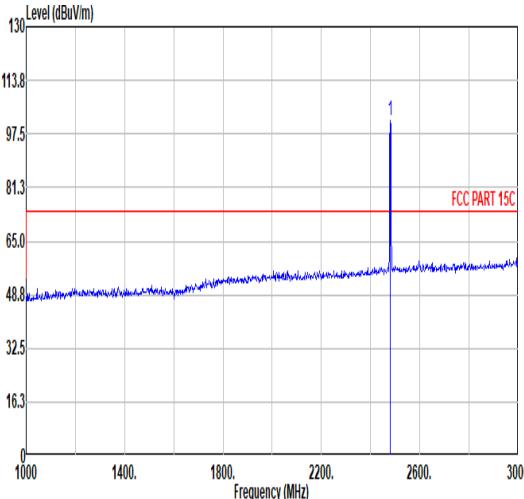
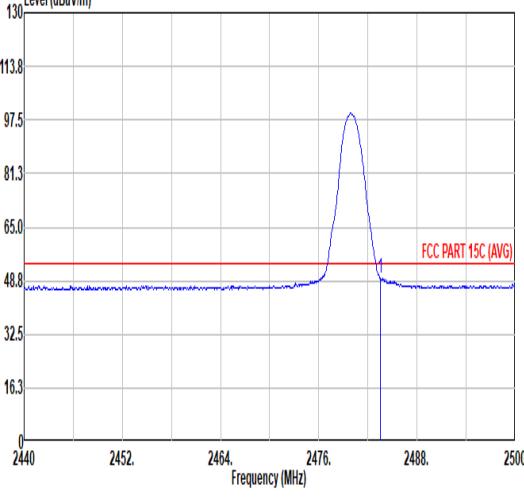
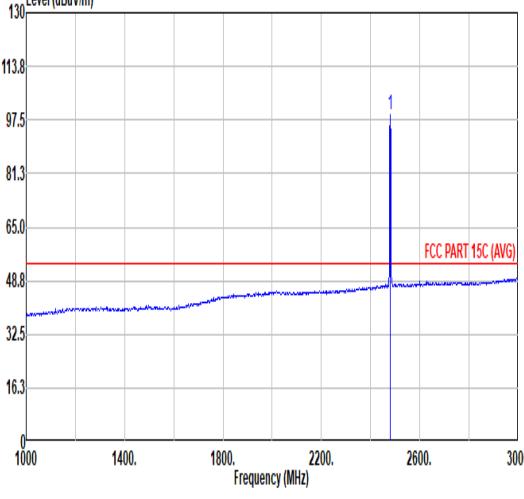


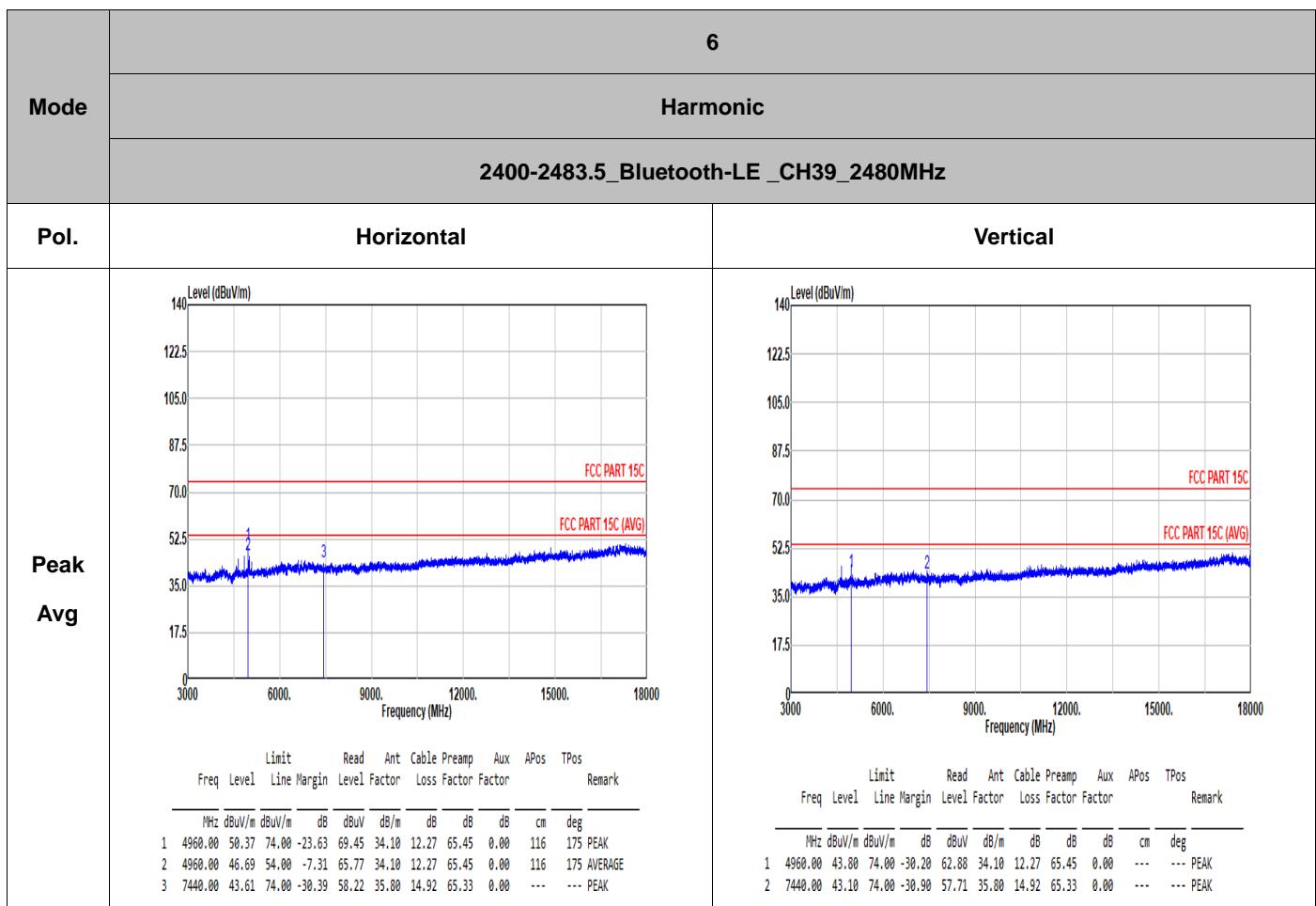


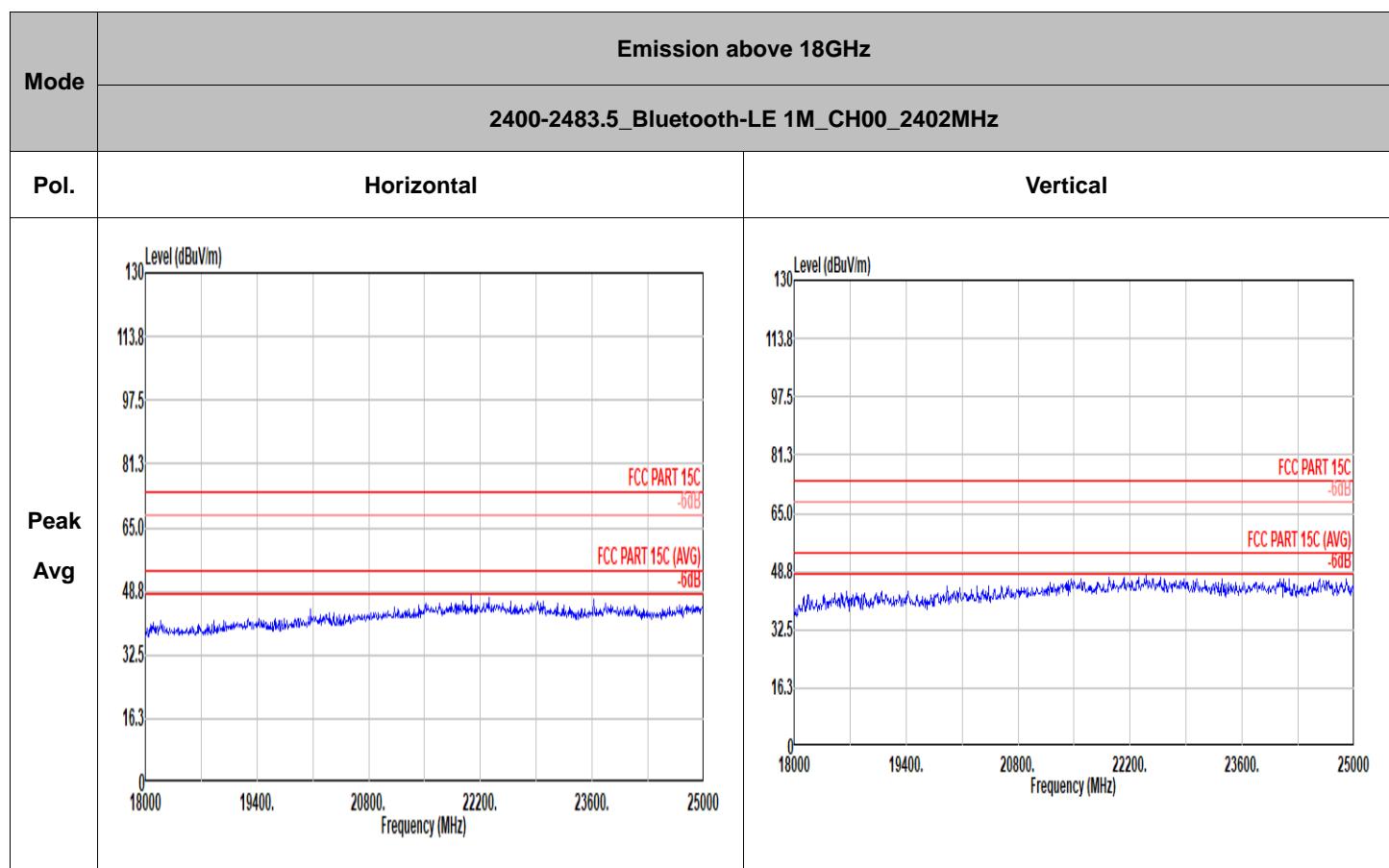


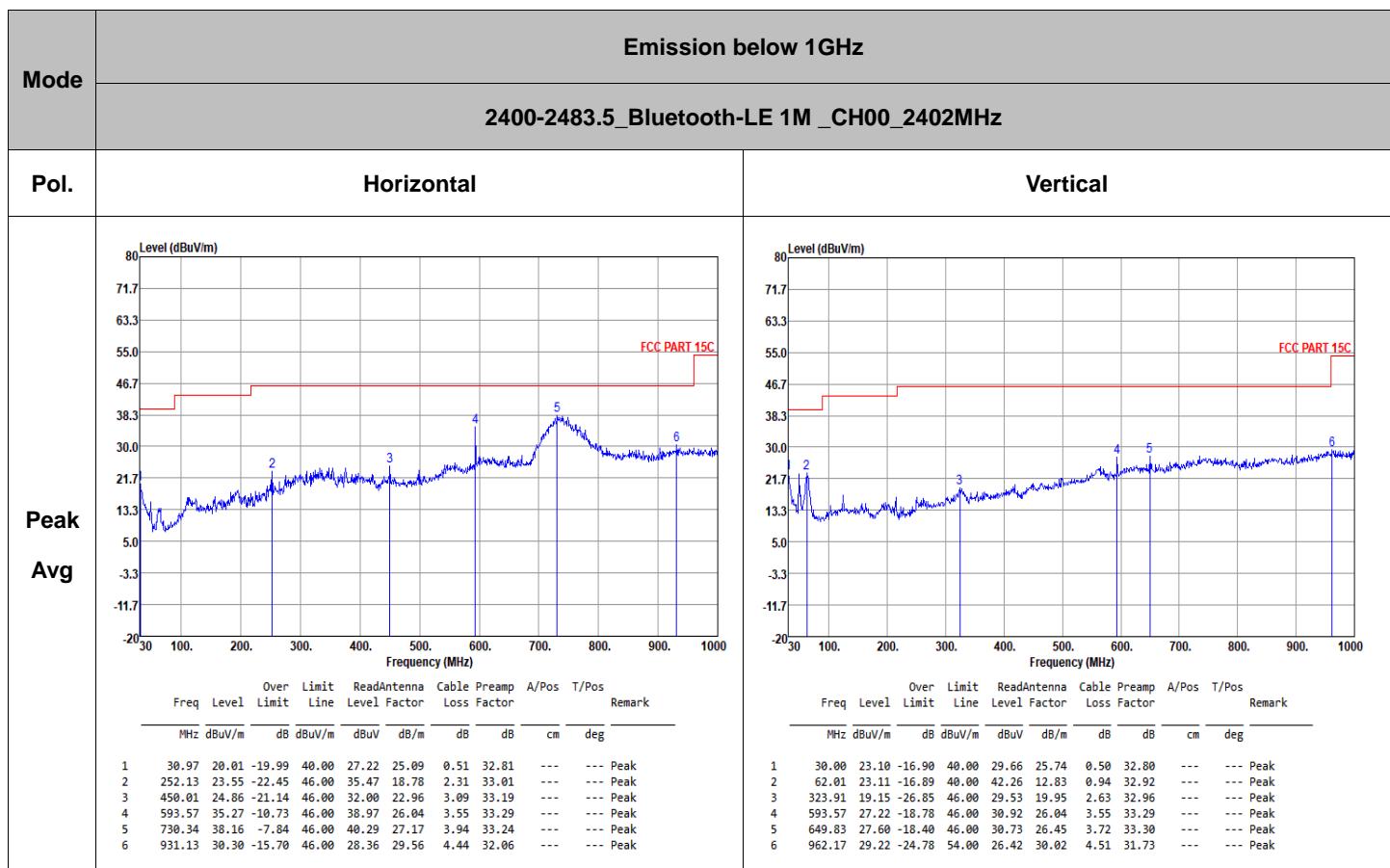
| Mode | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------|--------|--------|--------|--------|--------|----------------------|------|--------|------|-------------|-------|--------|--------|------|--------|--------|--------|--------|-----|--------|--------|----|------|----|----|----|-----|--|---|---------|-------|-------|--------|-------|-------|------|-------|----------------------|---|------|-------|------|-----|-------|--------|-----|------|------|--------|------|-------------|-------|--------|--------|------|--------|--------|--------|--------|-----|--------|--------|----|------|----|----|----|-----|--|---|---------|-------|-------|-------|-------|-------|------|-------|----------------------|
| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE _CH39_2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <table><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2483.74</td><td>58.88</td><td>74.00</td><td>-15.12</td><td>42.35</td><td>32.13</td><td>9.05</td><td>30.65</td><td>6.00 100 120 PEAK</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dB/m | dB | dB | cm | deg | | 1 | 2483.74 | 58.88 | 74.00 | -15.12 | 42.35 | 32.13 | 9.05 | 30.65 | 6.00 100 120 PEAK | <table><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>99.99</td><td>-----</td><td>-----</td><td>83.49</td><td>32.12</td><td>9.04</td><td>30.66</td><td>6.00 100 120 PEAK</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dB/m | dB | dB | cm | deg | | 1 | 2480.00 | 99.99 | ----- | ----- | 83.49 | 32.12 | 9.04 | 30.66 | 6.00 100 120 PEAK |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.74 | 58.88 | 74.00 | -15.12 | 42.35 | 32.13 | 9.05 | 30.65 | 6.00 100 120 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 99.99 | ----- | ----- | 83.49 | 32.12 | 9.04 | 30.66 | 6.00 100 120 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg | <table><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2483.56</td><td>49.32</td><td>54.00</td><td>-4.68</td><td>32.79</td><td>32.13</td><td>9.05</td><td>30.65</td><td>6.00 100 120 AVERAGE</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dB/m | dB | dB | cm | deg | | 1 | 2483.56 | 49.32 | 54.00 | -4.68 | 32.79 | 32.13 | 9.05 | 30.65 | 6.00 100 120 AVERAGE | <table><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>97.92</td><td>-----</td><td>-----</td><td>81.42</td><td>32.12</td><td>9.04</td><td>30.66</td><td>6.00 100 120 AVERAGE</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dB/m | dB | dB | cm | deg | | 1 | 2480.00 | 97.92 | ----- | ----- | 81.42 | 32.12 | 9.04 | 30.66 | 6.00 100 120 AVERAGE |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.56 | 49.32 | 54.00 | -4.68 | 32.79 | 32.13 | 9.05 | 30.65 | 6.00 100 120 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 97.92 | ----- | ----- | 81.42 | 32.12 | 9.04 | 30.66 | 6.00 100 120 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Mode | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|--------|--------|--------|--------|--------|--------|--------|------|-------------|------|-------------|-------|--------|--------|------|--------|--------|--------|--------|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|-------------|---|------|-------|------|-----|-------|--------|-----|------|------|--------|------|-------------|-------|--------|--------|------|--------|--------|--------|--------|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|------|-----|-------------|
| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE _CH39_2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak |  <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <table><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2483.62</td><td>60.16</td><td>74.00</td><td>-13.84</td><td>43.63</td><td>32.13</td><td>9.05</td><td>30.65</td><td>6.00</td><td>300</td><td>113 PEAK</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2483.62 | 60.16 | 74.00 | -13.84 | 43.63 | 32.13 | 9.05 | 30.65 | 6.00 | 300 | 113 PEAK |  <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <table><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>101.33</td><td>-----</td><td>-----</td><td>84.83</td><td>32.12</td><td>9.04</td><td>30.66</td><td>6.00</td><td>300</td><td>113 PEAK</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2480.00 | 101.33 | ----- | ----- | 84.83 | 32.12 | 9.04 | 30.66 | 6.00 | 300 | 113 PEAK |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.62 | 60.16 | 74.00 | -13.84 | 43.63 | 32.13 | 9.05 | 30.65 | 6.00 | 300 | 113 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 101.33 | ----- | ----- | 84.83 | 32.12 | 9.04 | 30.66 | 6.00 | 300 | 113 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg |  <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <table><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2483.50</td><td>49.64</td><td>54.00</td><td>-4.36</td><td>33.11</td><td>32.13</td><td>9.05</td><td>30.65</td><td>6.00</td><td>300</td><td>113 AVERAGE</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2483.50 | 49.64 | 54.00 | -4.36 | 33.11 | 32.13 | 9.05 | 30.65 | 6.00 | 300 | 113 AVERAGE |  <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <table><thead><tr><th>Freq</th><th>Level</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Line Margin</th><th>Level</th><th>Margin</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>99.11</td><td>-----</td><td>-----</td><td>82.61</td><td>32.12</td><td>9.04</td><td>30.66</td><td>6.00</td><td>300</td><td>113 AVERAGE</td></tr></tbody></table> | Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2480.00 | 99.11 | ----- | ----- | 82.61 | 32.12 | 9.04 | 30.66 | 6.00 | 300 | 113 AVERAGE |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 49.64 | 54.00 | -4.36 | 33.11 | 32.13 | 9.05 | 30.65 | 6.00 | 300 | 113 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Line Margin | Level | Margin | Factor | Loss | Factor | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 99.11 | ----- | ----- | 82.61 | 32.12 | 9.04 | 30.66 | 6.00 | 300 | 113 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |







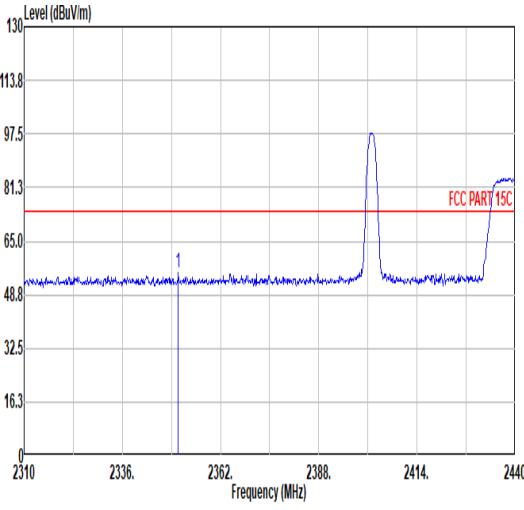
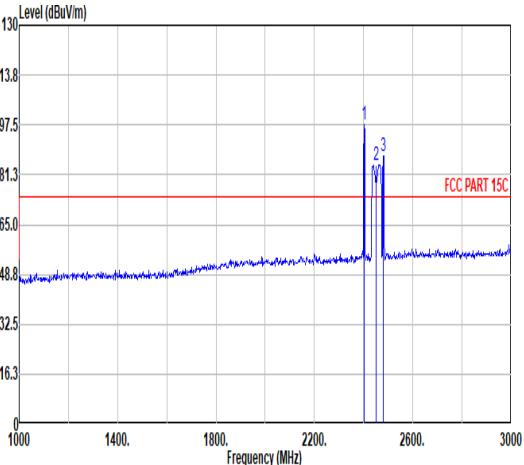
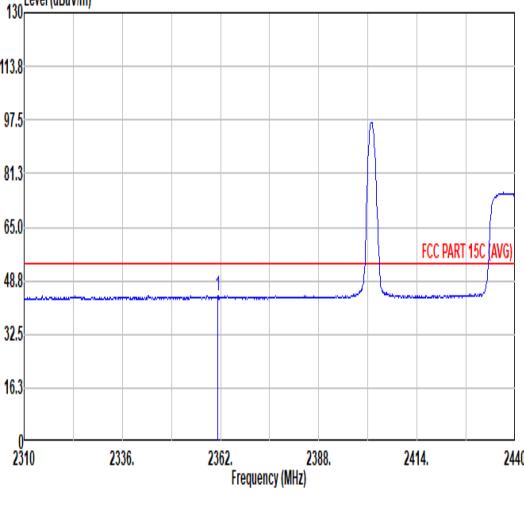
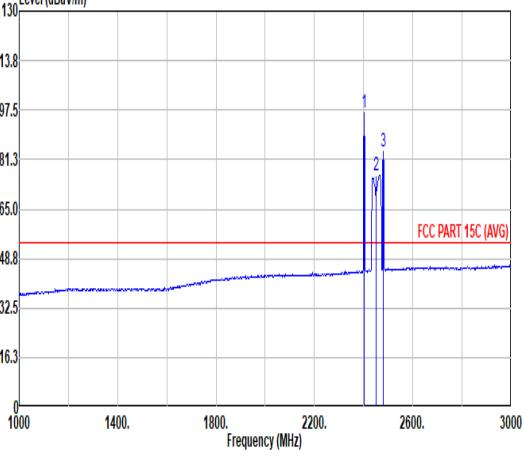


| Mode | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|-------------|--------------|-------------|--------|-------|--------|-------|----------------------|------|--------|------|-------|-------------|--------------|-------------|--------|--|--|--|--|---|---------|-------|-------|--------|-------|-------|------|-------|----------------------|--|-----|-----|-----|----|------|----|----|----|-----|---|-------|--|------|-----|-------|--------|-----|------|------|--------|------|-------|-------------|--------------|-------------|--------|--|--|--|--|---|---------|--------|-------|-------|-------|-------|------|-------|----------------------|---|---------|-------|-------|-------|-------|-------|------|-------|----------------------|---|---------|--------|-------|-------|-------|-------|------|-------|----------------------|--|-----|-----|-----|----|------|----|----|----|-----|
| | Band Edge - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE _CH00_2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <table border="1"> <thead> <tr> <th colspan="2">Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2319.88</td> <td>55.45</td> <td>74.00</td> <td>-18.55</td> <td>41.56</td> <td>31.82</td> <td>7.01</td> <td>30.94</td> <td>6.00 129 177 PEAK</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBm</td> <td>dBm</td> <td>dB</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm</td> <td>deg</td> </tr> </tbody> </table> | Limit | | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | 1 | 2319.88 | 55.45 | 74.00 | -18.55 | 41.56 | 31.82 | 7.01 | 30.94 | 6.00 129 177 PEAK | | MHz | dBm | dBm | dB | dB/m | dB | dB | cm | deg | <table border="1"> <thead> <tr> <th colspan="2">Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>101.71</td> <td>74.00</td> <td>27.71</td> <td>87.45</td> <td>32.00</td> <td>7.13</td> <td>30.87</td> <td>6.00 129 177 Peak</td> </tr> <tr> <td>2</td> <td>2452.00</td> <td>86.98</td> <td>74.00</td> <td>12.98</td> <td>72.40</td> <td>32.08</td> <td>7.23</td> <td>30.73</td> <td>6.00 129 177 Peak</td> </tr> <tr> <td>3</td> <td>2480.00</td> <td>102.45</td> <td>74.00</td> <td>28.45</td> <td>87.71</td> <td>32.12</td> <td>7.28</td> <td>30.66</td> <td>6.00 129 177 Peak</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBm</td> <td>dBm</td> <td>dB</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm</td> <td>deg</td> </tr> </tbody> </table> | Limit | | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | 1 | 2402.00 | 101.71 | 74.00 | 27.71 | 87.45 | 32.00 | 7.13 | 30.87 | 6.00 129 177 Peak | 2 | 2452.00 | 86.98 | 74.00 | 12.98 | 72.40 | 32.08 | 7.23 | 30.73 | 6.00 129 177 Peak | 3 | 2480.00 | 102.45 | 74.00 | 28.45 | 87.71 | 32.12 | 7.28 | 30.66 | 6.00 129 177 Peak | | MHz | dBm | dBm | dB | dB/m | dB | dB | cm | deg |
| Limit | | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2319.88 | 55.45 | 74.00 | -18.55 | 41.56 | 31.82 | 7.01 | 30.94 | 6.00 129 177 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dB | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit | | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 101.71 | 74.00 | 27.71 | 87.45 | 32.00 | 7.13 | 30.87 | 6.00 129 177 Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2452.00 | 86.98 | 74.00 | 12.98 | 72.40 | 32.08 | 7.23 | 30.73 | 6.00 129 177 Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2480.00 | 102.45 | 74.00 | 28.45 | 87.71 | 32.12 | 7.28 | 30.66 | 6.00 129 177 Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dB | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg | <table border="1"> <thead> <tr> <th colspan="2">Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2323.65</td> <td>46.22</td> <td>54.00</td> <td>-7.78</td> <td>32.31</td> <td>31.83</td> <td>7.02</td> <td>30.94</td> <td>6.00 129 177 AVERAGE</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBm</td> <td>dBm</td> <td>dB</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm</td> <td>deg</td> </tr> </tbody> </table> | Limit | | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | 1 | 2323.65 | 46.22 | 54.00 | -7.78 | 32.31 | 31.83 | 7.02 | 30.94 | 6.00 129 177 AVERAGE | | MHz | dBm | dBm | dB | dB/m | dB | dB | cm | deg | <table border="1"> <thead> <tr> <th colspan="2">Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Factor</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>100.89</td> <td>54.00</td> <td>46.89</td> <td>86.63</td> <td>32.00</td> <td>7.13</td> <td>30.87</td> <td>6.00 129 177 Average</td> </tr> <tr> <td>2</td> <td>2452.00</td> <td>77.86</td> <td>54.00</td> <td>23.86</td> <td>63.28</td> <td>32.08</td> <td>7.23</td> <td>30.73</td> <td>6.00 129 177 Average</td> </tr> <tr> <td>3</td> <td>2480.00</td> <td>99.14</td> <td>54.00</td> <td>45.14</td> <td>84.40</td> <td>32.12</td> <td>7.28</td> <td>30.66</td> <td>6.00 129 177 Average</td> </tr> <tr> <td></td> <td>MHz</td> <td>dBm</td> <td>dBm</td> <td>dB</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm</td> <td>deg</td> </tr> </tbody> </table> | Limit | | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | 1 | 2402.00 | 100.89 | 54.00 | 46.89 | 86.63 | 32.00 | 7.13 | 30.87 | 6.00 129 177 Average | 2 | 2452.00 | 77.86 | 54.00 | 23.86 | 63.28 | 32.08 | 7.23 | 30.73 | 6.00 129 177 Average | 3 | 2480.00 | 99.14 | 54.00 | 45.14 | 84.40 | 32.12 | 7.28 | 30.66 | 6.00 129 177 Average | | MHz | dBm | dBm | dB | dB/m | dB | dB | cm | deg |
| Limit | | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2323.65 | 46.22 | 54.00 | -7.78 | 32.31 | 31.83 | 7.02 | 30.94 | 6.00 129 177 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dB | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit | | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 100.89 | 54.00 | 46.89 | 86.63 | 32.00 | 7.13 | 30.87 | 6.00 129 177 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2452.00 | 77.86 | 54.00 | 23.86 | 63.28 | 32.08 | 7.23 | 30.73 | 6.00 129 177 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2480.00 | 99.14 | 54.00 | 45.14 | 84.40 | 32.12 | 7.28 | 30.66 | 6.00 129 177 Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dB | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

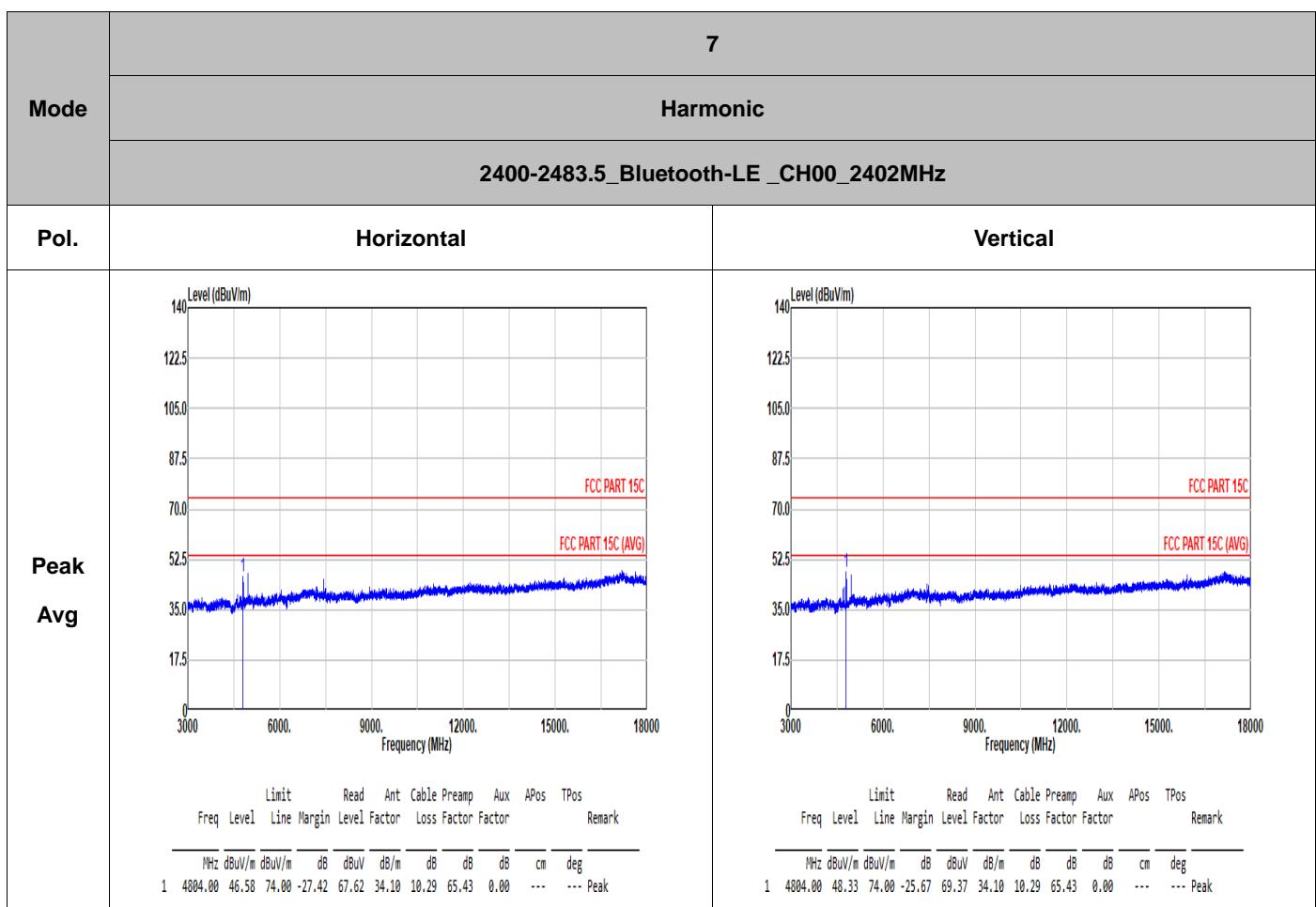
Note: the highest signal over limit are BLE + Zigbee + WLAN co-location fundamental signals.



7

| Mode | Band Edge - L | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|
| | 2400-2483.5_Bluetooth-LE _CH00_2402MHz | | | | | | | | | | | |
| | Vertical | | | | | | Fundamental | | | | | |
| Peak |  | | | | | |  | | | | | |
| Avg |  | | | | | |  | | | | | |
| Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dB/m dB dB cm deg | | | | | | | Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dB/m dB dB cm deg | | | | | |
| 1 2350.82 55.45 74.00 -18.55 41.42 31.89 7.06 30.92 6.00 269 148 PEAK | | | | | | | 1 2402.00 97.69 74.00 23.69 83.43 32.00 7.13 30.87 6.00 269 148 Peak | | | | | |
| | | | | | | | 2 2452.00 84.57 74.00 10.57 69.99 32.08 7.23 30.73 6.00 269 148 Peak | | | | | |
| | | | | | | | 3 2480.00 87.20 74.00 13.20 72.46 32.12 7.28 30.66 6.00 269 148 Peak | | | | | |
| Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dB/m dB dB cm deg | | | | | | | Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dB/m dB dB cm deg | | | | | |
| 1 2361.22 44.09 54.00 -9.91 30.02 31.91 7.07 30.91 6.00 269 148 AVERAGE | | | | | | | 1 2402.00 96.82 54.00 42.82 82.56 32.00 7.13 30.87 6.00 269 148 Average | | | | | |
| | | | | | | | 2 2452.00 75.88 54.00 21.88 61.30 32.08 7.23 30.73 6.00 269 148 Average | | | | | |
| | | | | | | | 3 2480.00 83.94 54.00 29.94 69.20 32.12 7.28 30.66 6.00 269 148 Average | | | | | |

Note: the highest signal over limit are BLE + Zigbee + WLAN co-location fundamental signals.

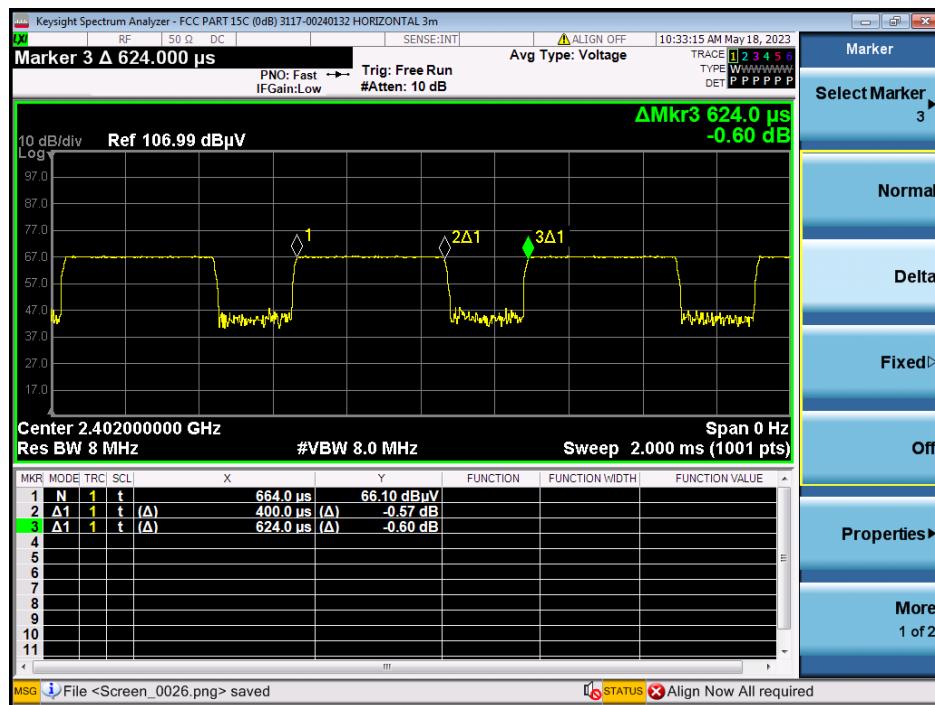




Appendix D. Duty Cycle Plots

| Band | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|--------------------|---------------|-------|----------|-------------|
| Bluetooth LE 1Mbps | 64.10 | 0.400 | 2.500 | 2.7 kHz |
| Bluetooth LE 2Mbps | 33.65 | 0.210 | 4.762 | 5.2 kHz |

Bluetooth LE 1Mbps





Bluetooth LE 2Mbps

