



FCC RF Test Report

APPLICANT : Lava Sources LLC
EQUIPMENT : Wireless Remote
MODEL NAME : E4GE9R
FCC ID : 2AYUC-3443
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : May 21, 2021 ~ May 27, 2021

We, Sporton International (Kunshan) Inc., 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|-------------|---------|--|---------------|
| FR150608-01 | Rev. 01 | Initial issue of report | Jun. 09, 2021 |
| FR150608-01 | Rev. 02 | Update test mode | Jun. 23, 2021 |
| FR150608-01 | Rev. 03 | Updated "Bluetooth v5.0 LE" to "Bluetooth LE 2Mbps" on page 27 | Aug. 30, 2021 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result |
|----------------|--------------------|--|-----------------------|--------------|
| 3.1 | 15.247(a)(2) | 6dB Bandwidth | ≥ 0.5MHz | Pass |
| 3.1 | - | 99% Bandwidth | - | N/A |
| 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 |
| - | 15.207 | AC Conducted Emission | 15.207(a) | Not Required |
| 3.6 | 15.203 & 15.247(b) | Antenna Requirement | N/A | N/A |

Remark: Not required means after assessing, test items are not necessary to carry out.

| |
|--|
| Declaration of Conformity: |
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| Comments and Explanations: |
| The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. |



1 General Description

1.1 Applicant

Lava Sources LLC
12 Penns Trail Newtown, PA 18940

1.2 Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|-----------------|
| Equipment | Wireless Remote |
| Model Name | E4GE9R |
| FCC ID | 2AYUC-3443 |
| EUT supports Radios application | Bluetooth LE |

1.3 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 1M: 3.89 dBm (0.0024 W) Bluetooth LE 2M: 3.69 dBm (0.0023 W) |
| 99% Occupied Bandwidth | Bluetooth LE 1M: 1.143MHz Bluetooth LE 2M: 2.098MHz |
| Antenna Type / Gain | PCB Inv F Antenna with gain 3.60 dBi |
| Type of Modulation | Bluetooth LE : GFSK |

1.4 Modification of EUT

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



1.5 Testing Location

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

| | | | |
|---------------------------|--|----------------------------|---------------------------------------|
| Test Firm | Sporton International (Kunshan) Inc. | | |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | 03CH06-KS TH01-KS | CN1257 | 314309 |

1.6 Test Software

| Item | Site | Manufacturer | Name | Version |
|------|-----------|--------------|------|---------------|
| 1. | 03CH06-KS | AUDIX | E3 | 6.2009-8-24a1 |

1.7 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: All test items were verified and recorded according to the standards and without any deviation during the test.



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

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: 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 (X Plane) were recorded in this report.

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 | Mode 1: Bluetooth Tx CH00_2402 MHz |
| | Mode 2: Bluetooth Tx CH19_2440 MHz |
| | Mode 3: Bluetooth Tx CH39_2480 MHz |
| Radiated TCs | Mode 1: Bluetooth Tx CH00_2402 MHz |
| | Mode 2: Bluetooth Tx CH19_2440 MHz |
| | Mode 3: Bluetooth Tx CH39_2480 MHz |

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

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

2.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.20 dB.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.20 \text{ (dB)} \end{aligned}$$

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.

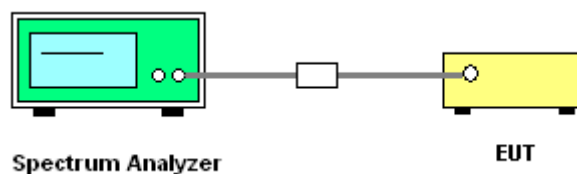
3.1.2 Measuring Instruments

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



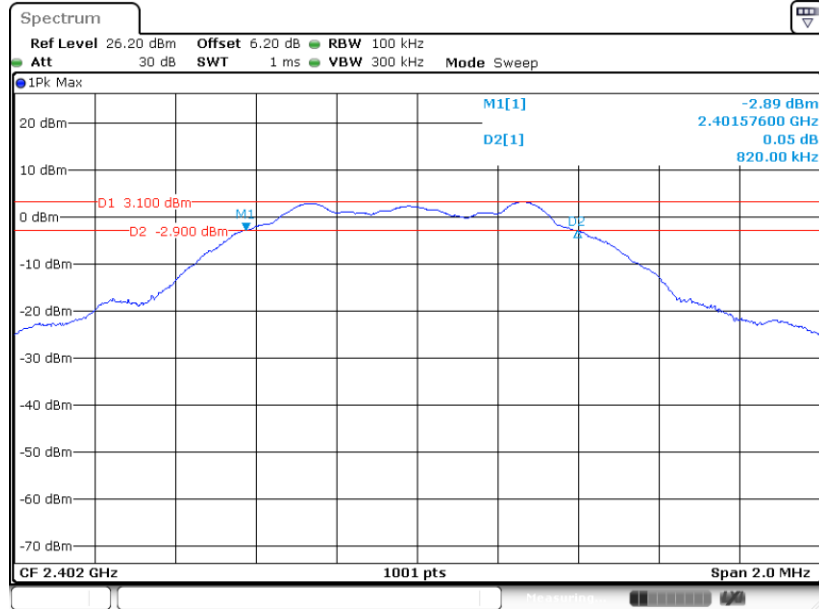


3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

Bluetooth LE 1Mbps

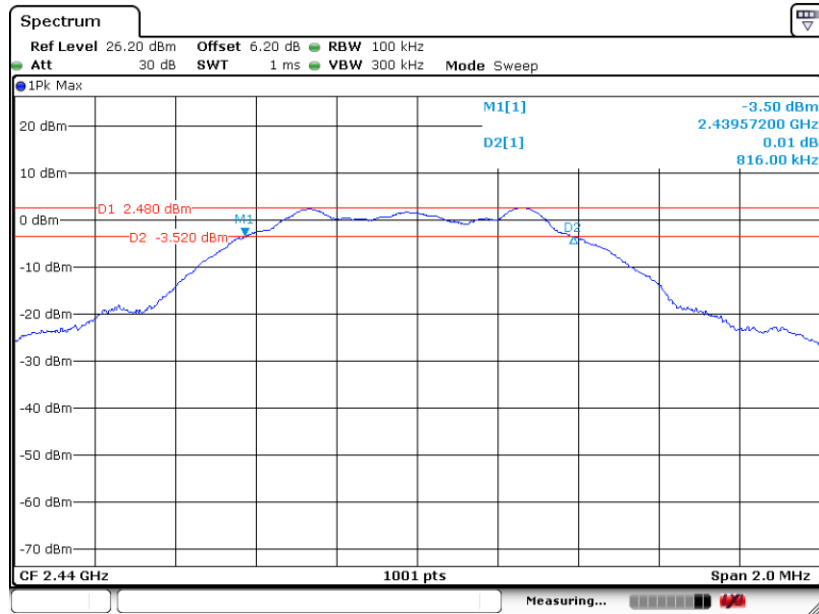
6 dB Bandwidth Plot on Channel 00



Date: 21.MAY.2021 15:13:15

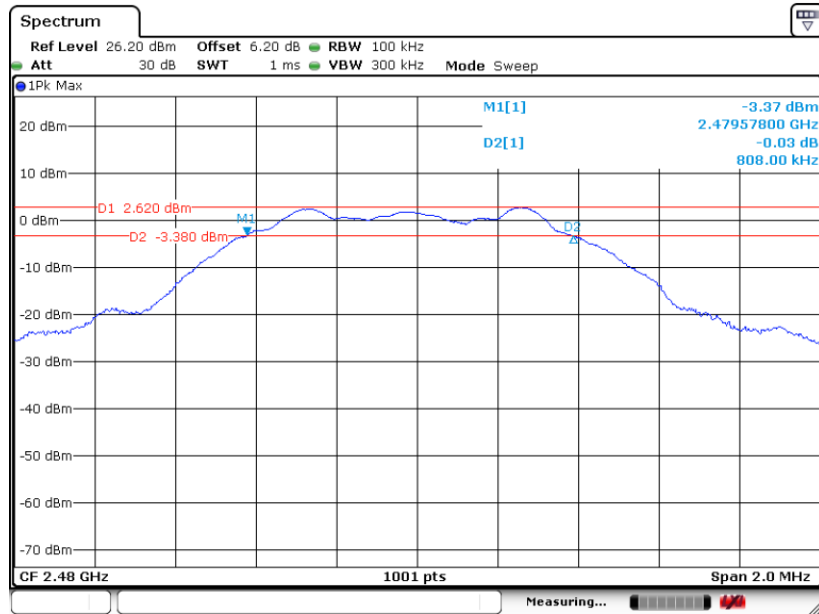


6 dB Bandwidth Plot on Channel 19



Date: 21.MAY.2021 15:17:27

6 dB Bandwidth Plot on Channel 39

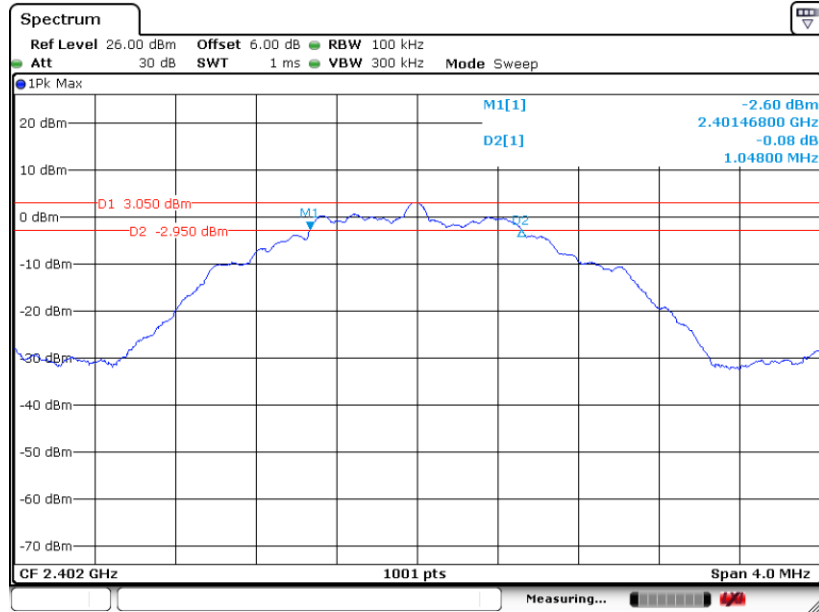


Date: 21.MAY.2021 15:20:50



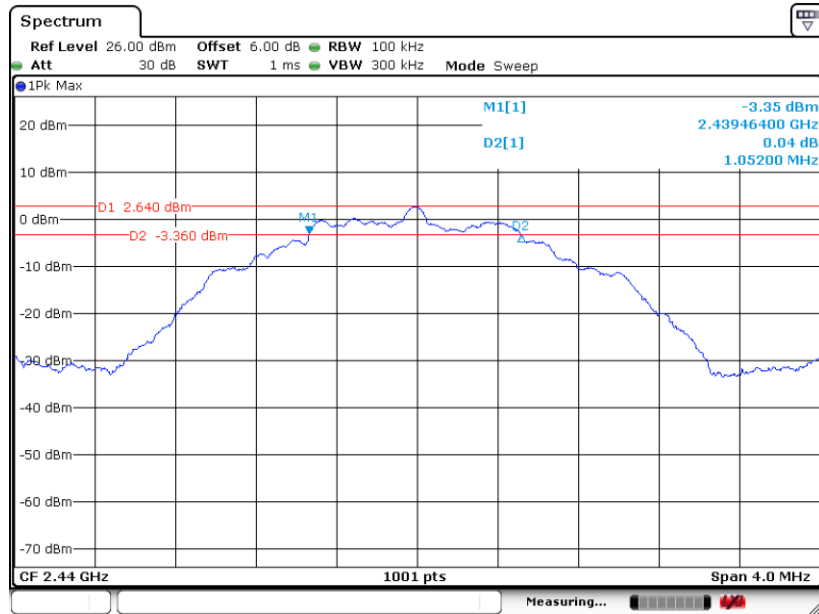
Bluetooth LE 2Mbps

6 dB Bandwidth Plot on Channel 00



Date: 21.MAY.2021 15:29:42

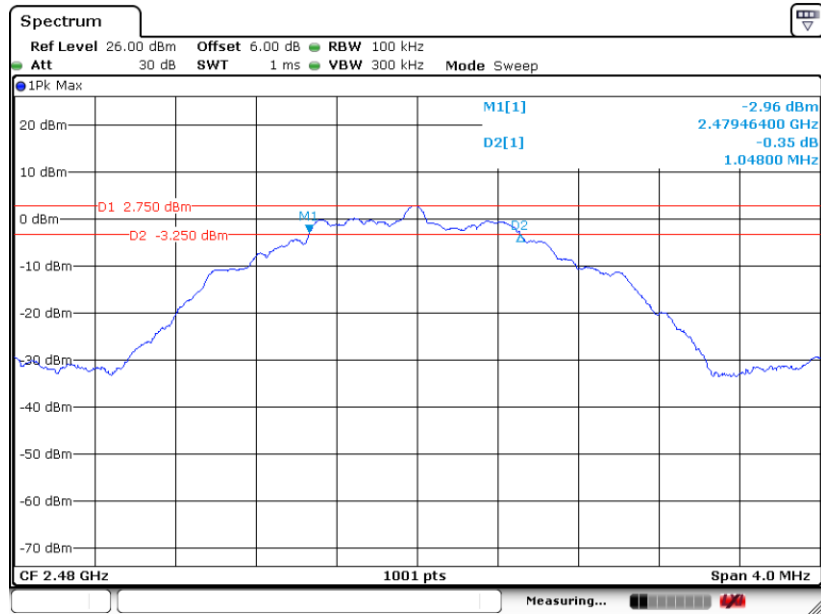
6 dB Bandwidth Plot on Channel 19



Date: 21.MAY.2021 08:55:43



6 dB Bandwidth Plot on Channel 39



Date: 21.MAY.2021 09:00:06

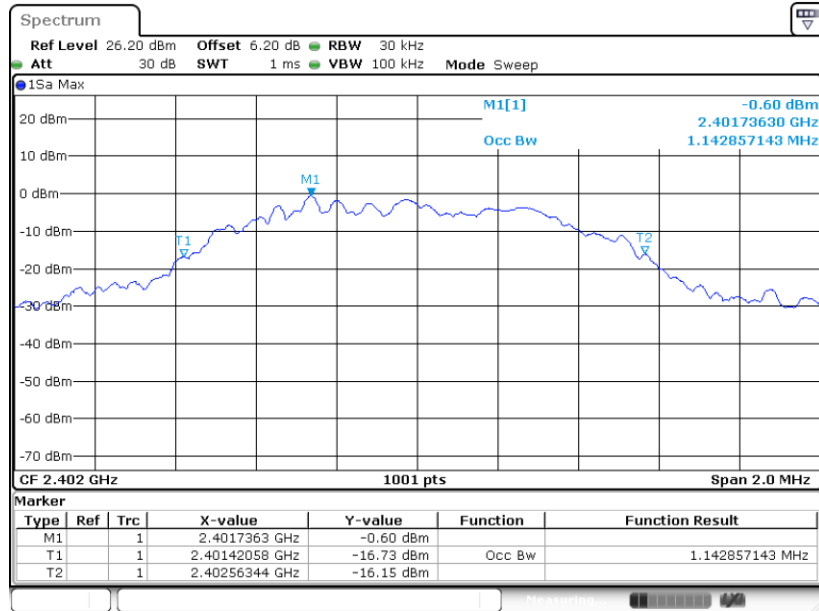


3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

Bluetooth LE 1Mbps

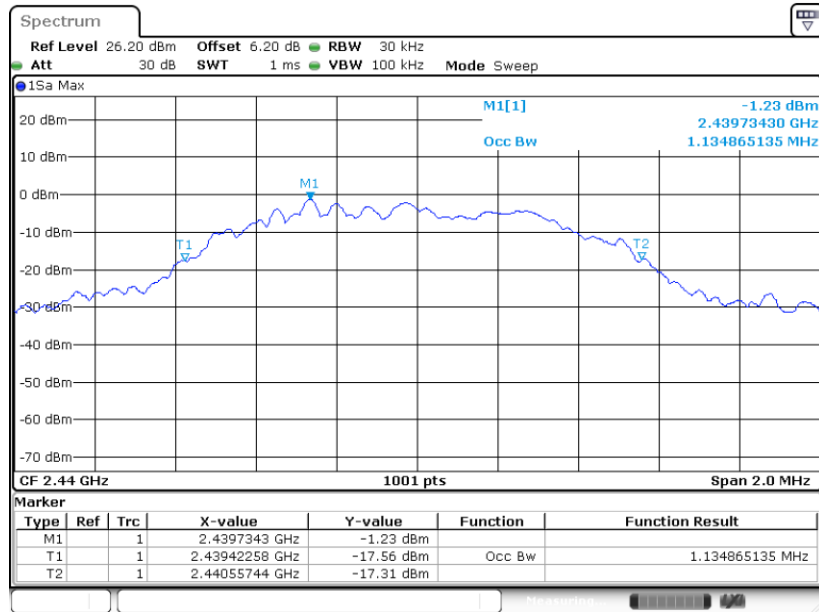
99% Occupied Bandwidth Plot on Channel 00



Date: 21.MAY.2021 15:14:21

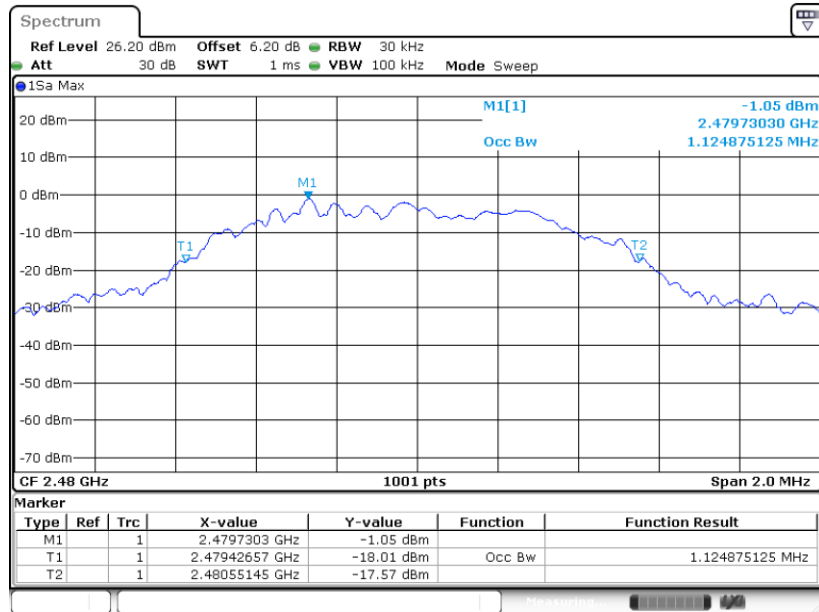


99% Occupied Bandwidth Plot on Channel 19



Date: 21.MAY.2021 15:20:14

99% Occupied Bandwidth Plot on Channel 39

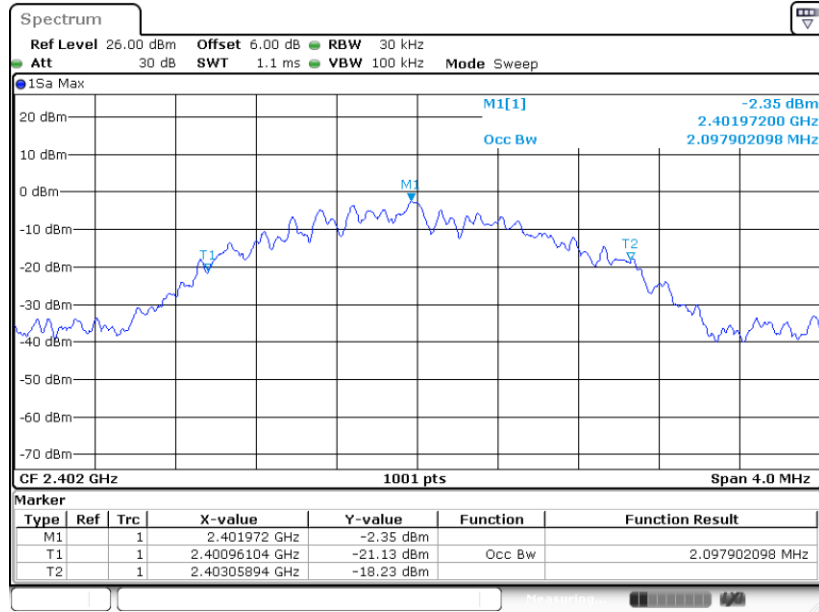


Date: 21.MAY.2021 15:23:34



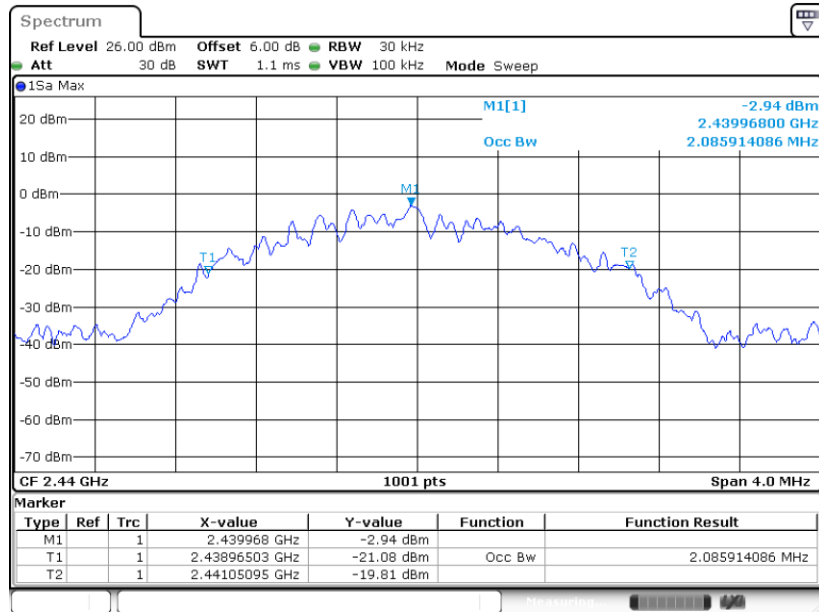
Bluetooth LE 2Mbps

99% Occupied Bandwidth Plot on Channel 00



Date: 21.MAY.2021 08:53:06

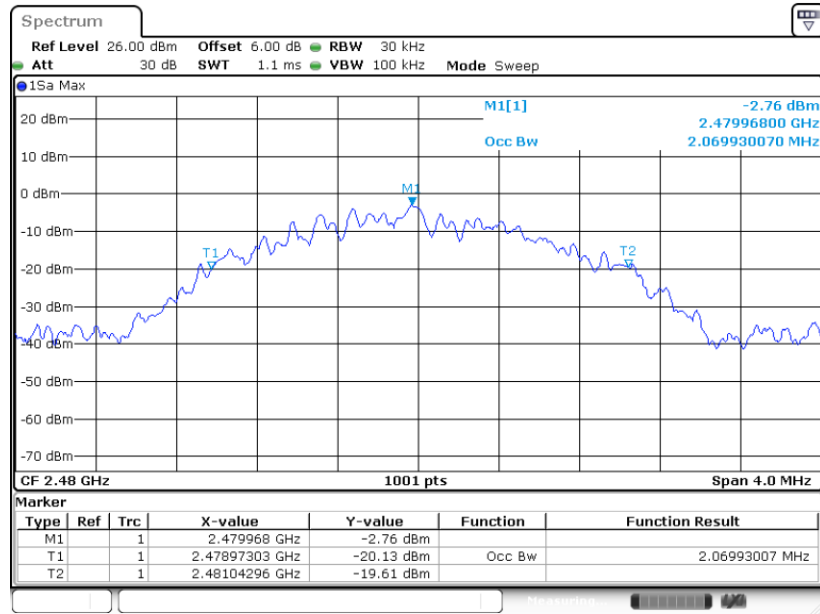
99% Occupied Bandwidth Plot on Channel 19



Date: 21.MAY.2021 08:59:00



99% Occupied Bandwidth Plot on Channel 39



Date: 21.MAY.2021 09:01:40

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.

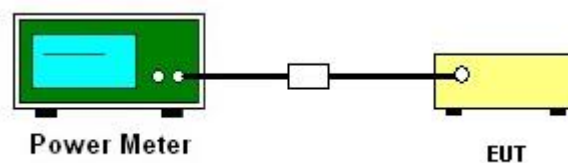
3.2.2 Measuring Instruments

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 11.9.2.3.2 Method AVGPM-G 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.

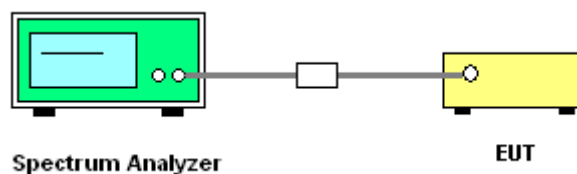
3.3.2 Measuring Instruments

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

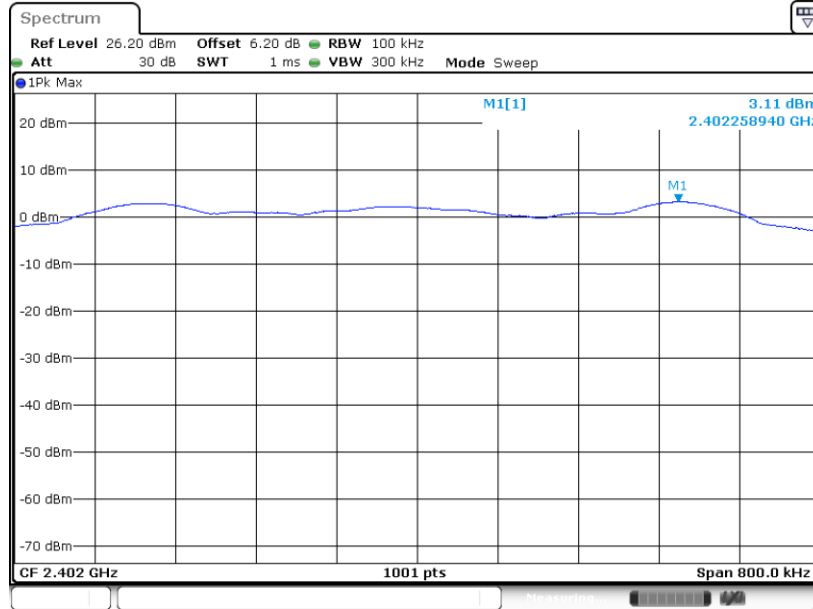
Please refer to Appendix A.



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

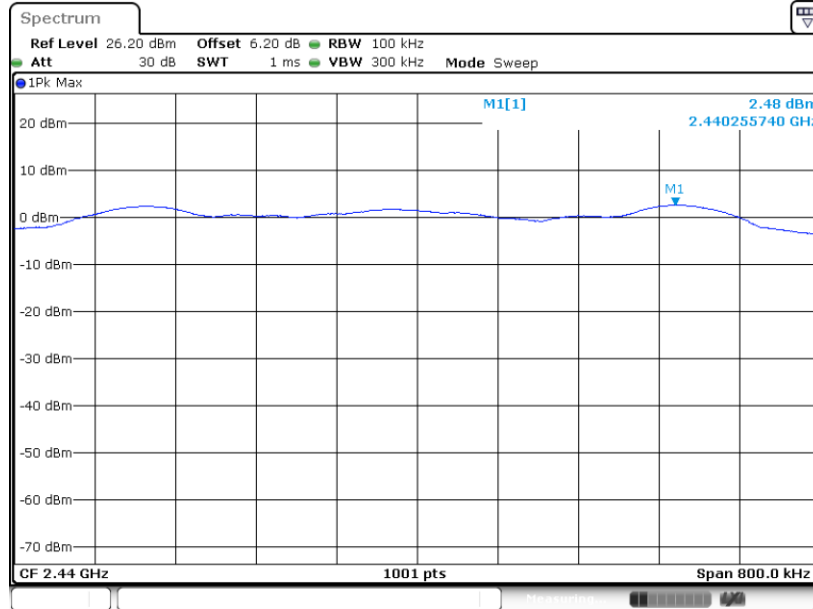
Bluetooth LE 1Mbps

PSD 100kHz Plot on Channel 00



Date: 21.MAY.2021 15:14:46

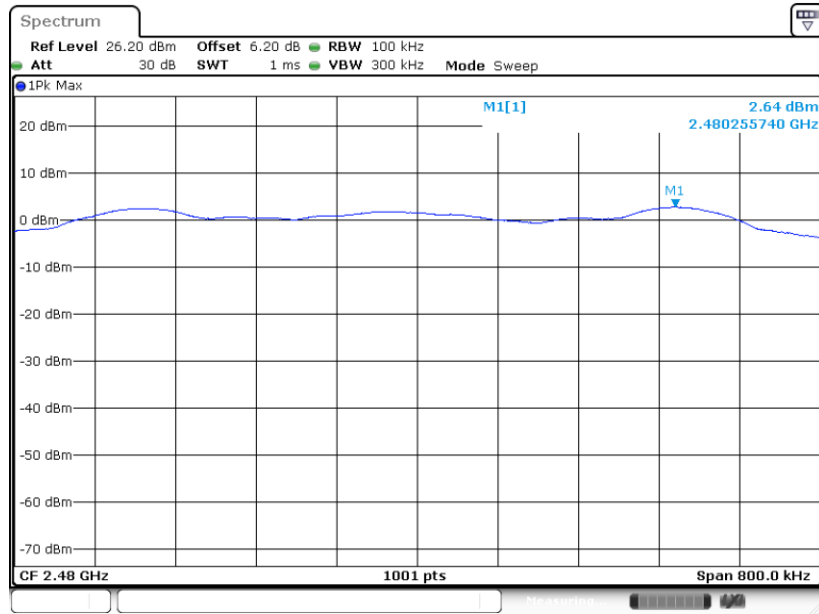
PSD 100kHz Plot on Channel 19



Date: 21.MAY.2021 15:18:43



PSD 100kHz Plot on Channel 39

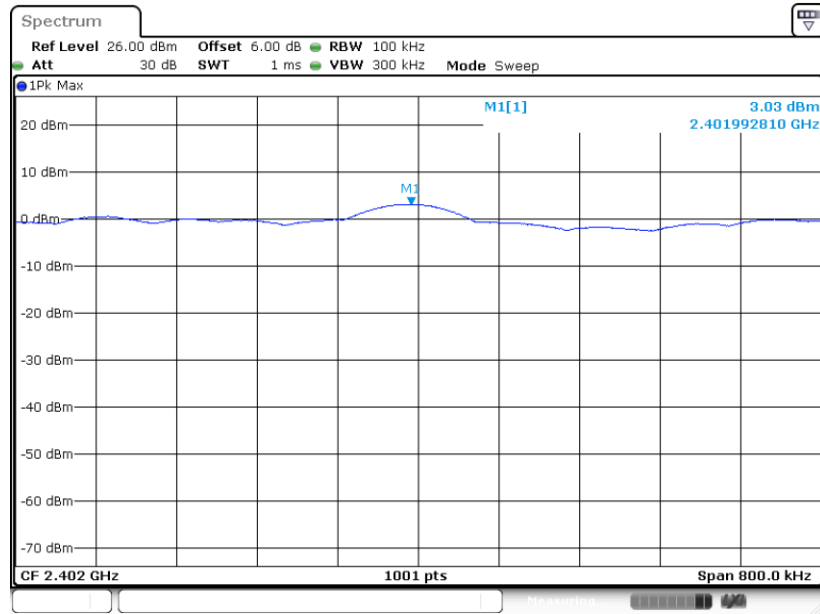


Date: 21.MAY.2021 15:21:33



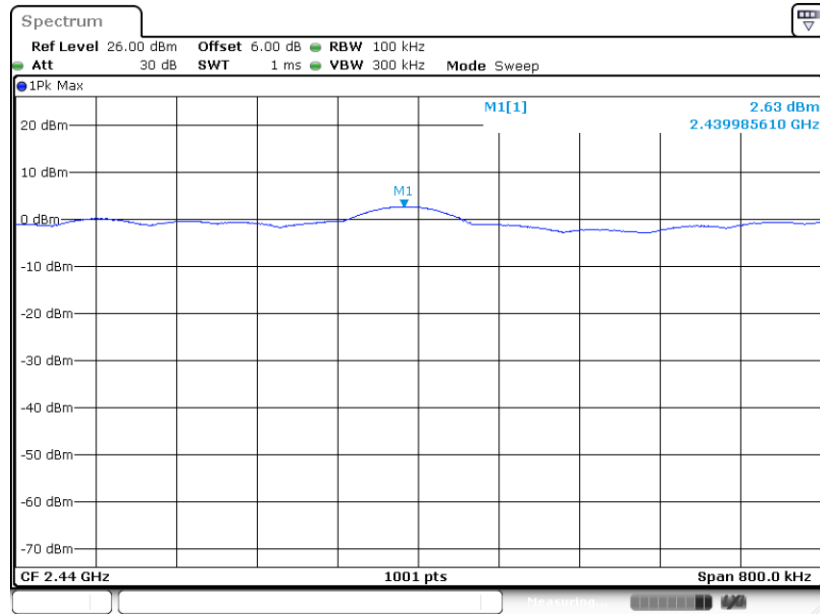
Bluetooth LE 2Mbps

PSD 100kHz Plot on Channel 00



Date: 21.MAY.2021 15:30:46

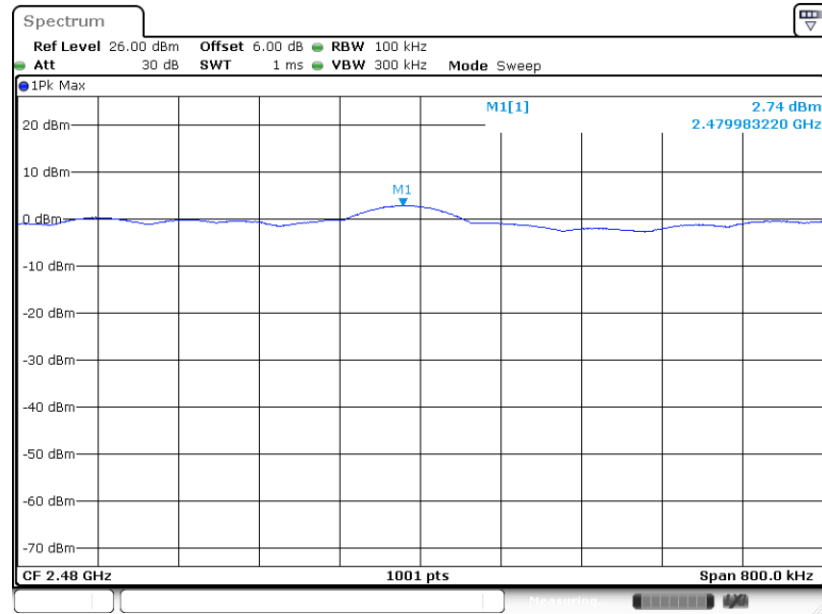
PSD 100kHz Plot on Channel 19



Date: 21.MAY.2021 08:56:36



PSD 100kHz Plot on Channel 39



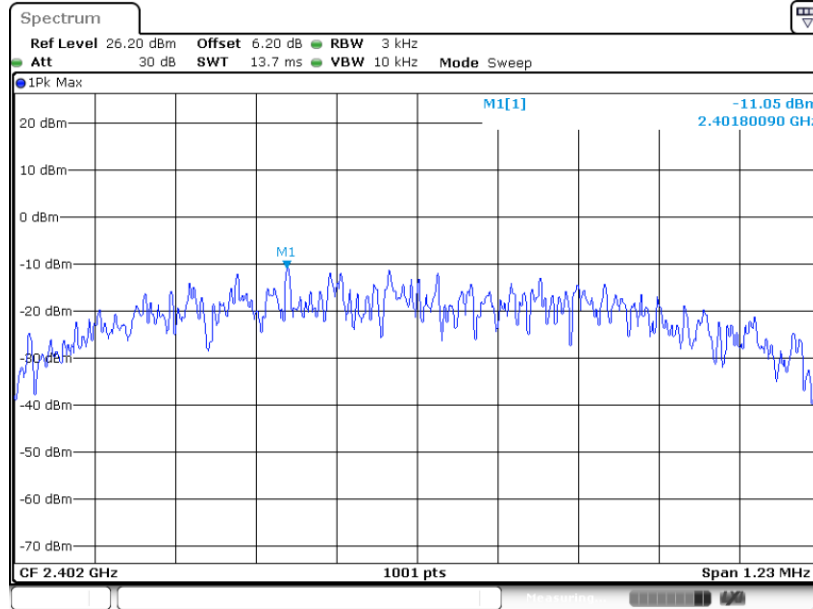
Date: 21.MAY.2021 09:00:46



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

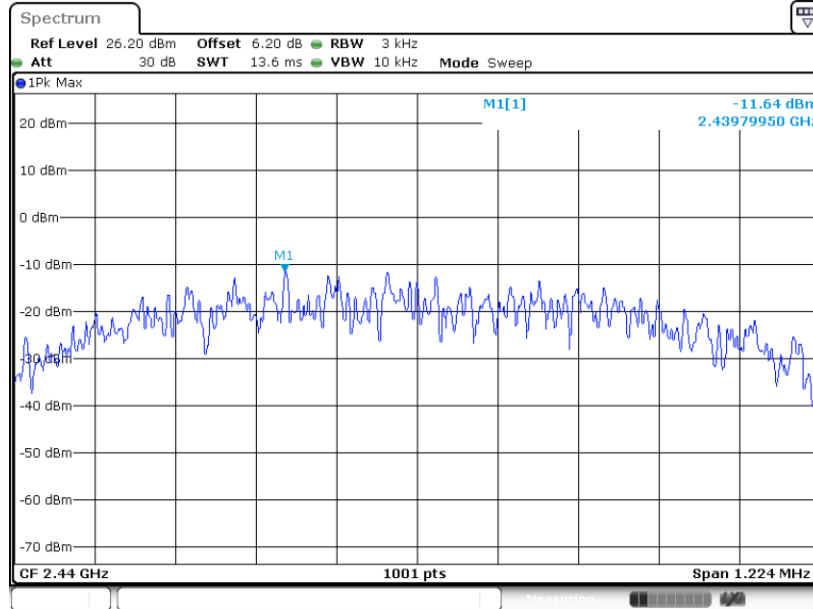
Bluetooth LE 1Mbps

PSD 3kHz Plot on Channel 00



Date: 21.MAY.2021 15:13:34

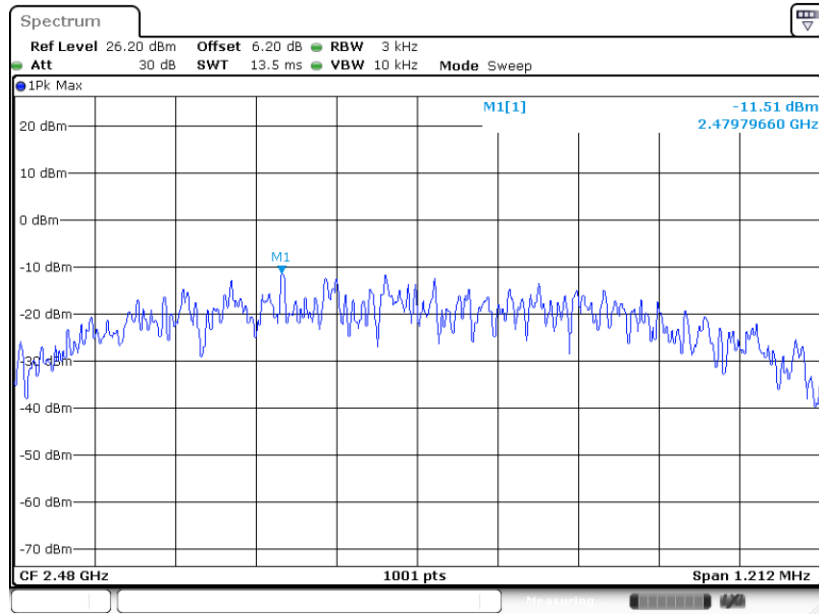
PSD 3kHz Plot on Channel 19



Date: 21.MAY.2021 15:18:12



PSD 3kHz Plot on Channel 39

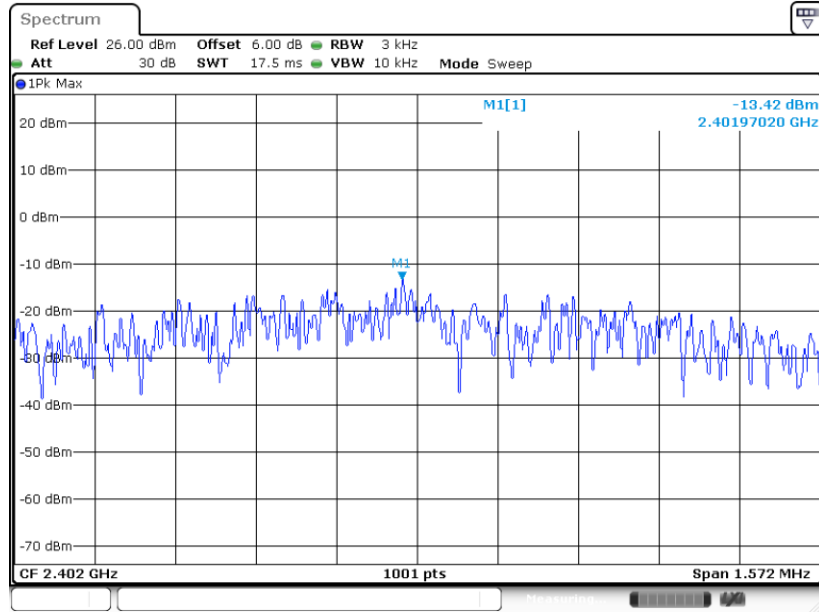


Date: 21.MAY.2021 15:21:05



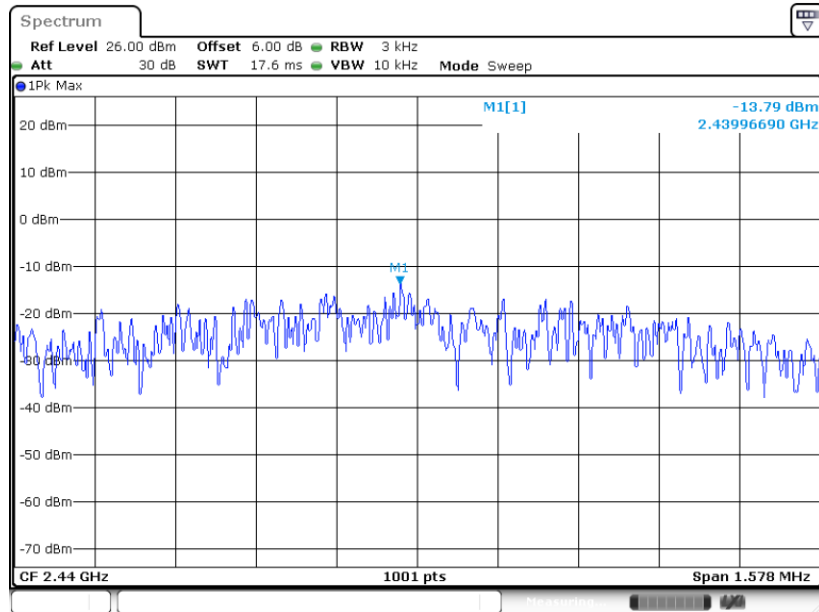
Bluetooth LE 2Mbps

PSD 3kHz Plot on Channel 00



Date: 21.MAY.2021 15:30:18

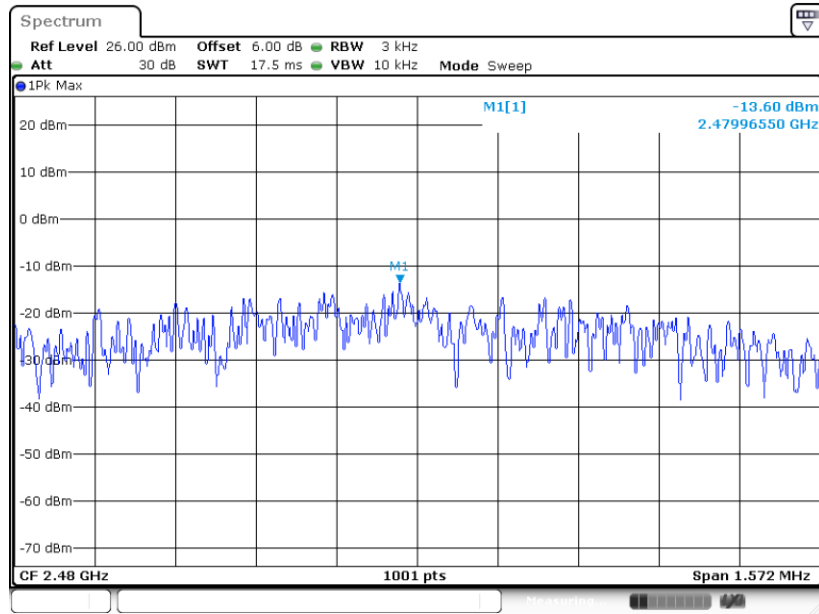
PSD 3kHz Plot on Channel 19



Date: 21.MAY.2021 08:56:05



PSD 3kHz Plot on Channel 39



Date: 21.MAY.2021 09:00:21

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.

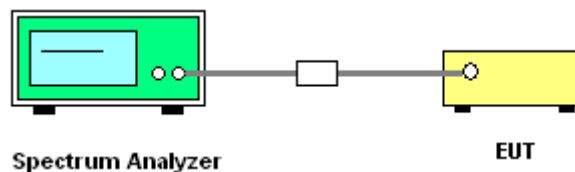
3.4.2 Measuring Instruments

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

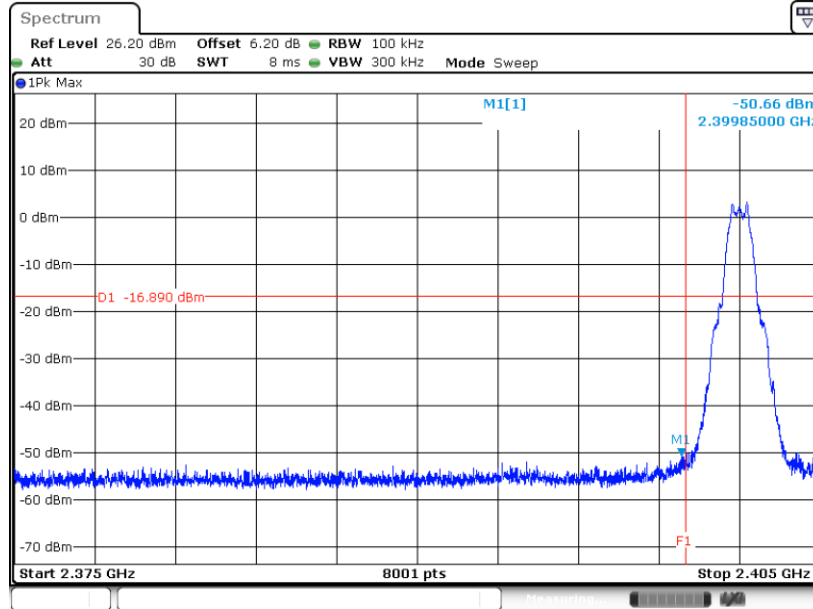




3.4.5 Test Result of Conducted Band Edges Plots

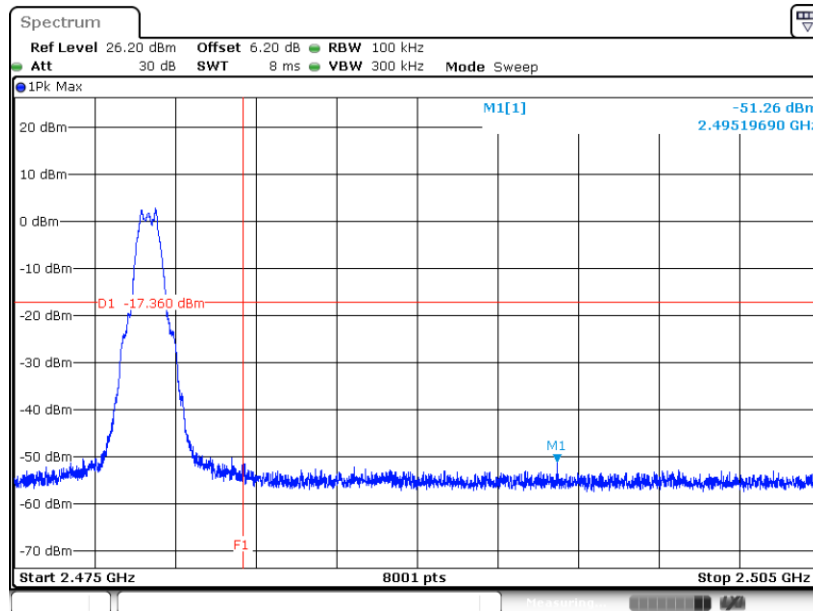
Bluetooth LE 1Mbps

Low Band Edge Plot on Channel 00



Date: 21.MAY.2021 15:15:09

High Band Edge Plot on Channel 39

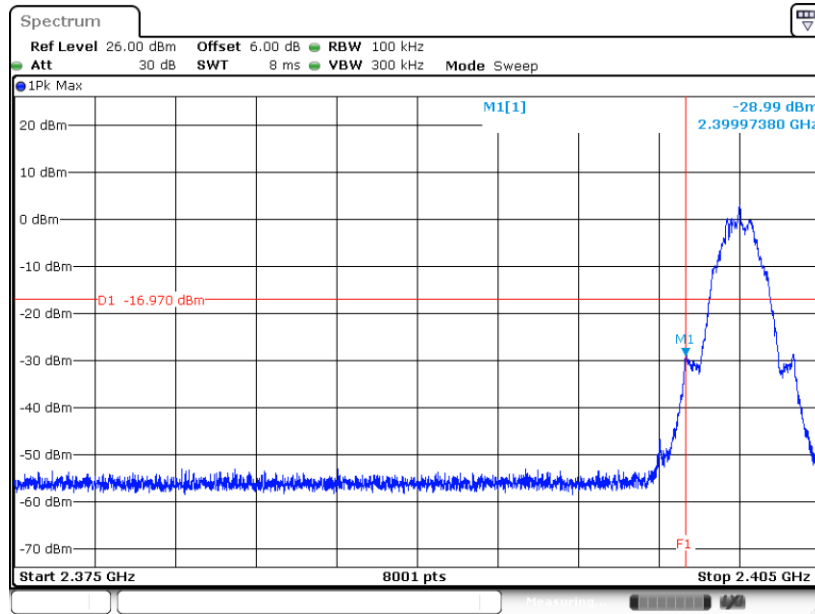


Date: 21.MAY.2021 15:21:45



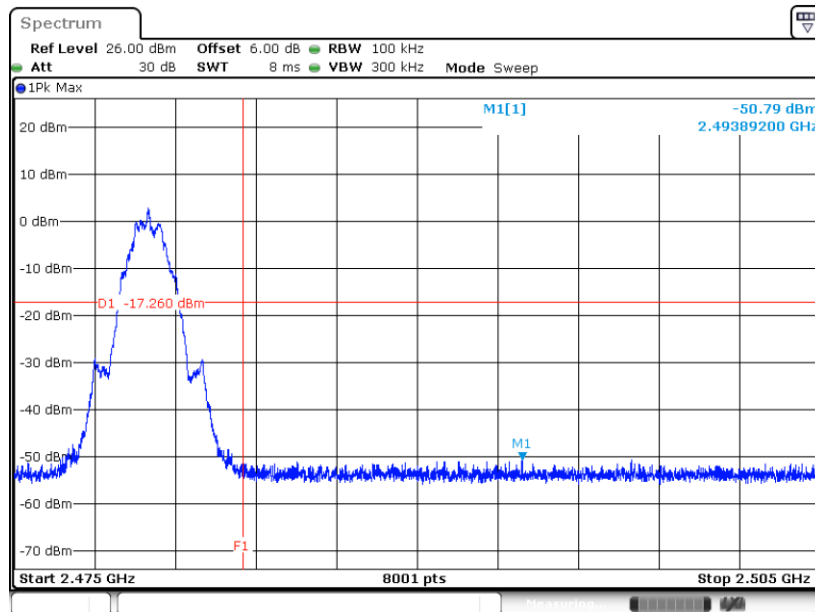
Bluetooth LE 2Mbps

Low Band Edge Plot on Channel 00



Date: 21.MAY.2021 15:30:57

High Band Edge Plot on Channel 39



Date: 21.MAY.2021 09:00:58

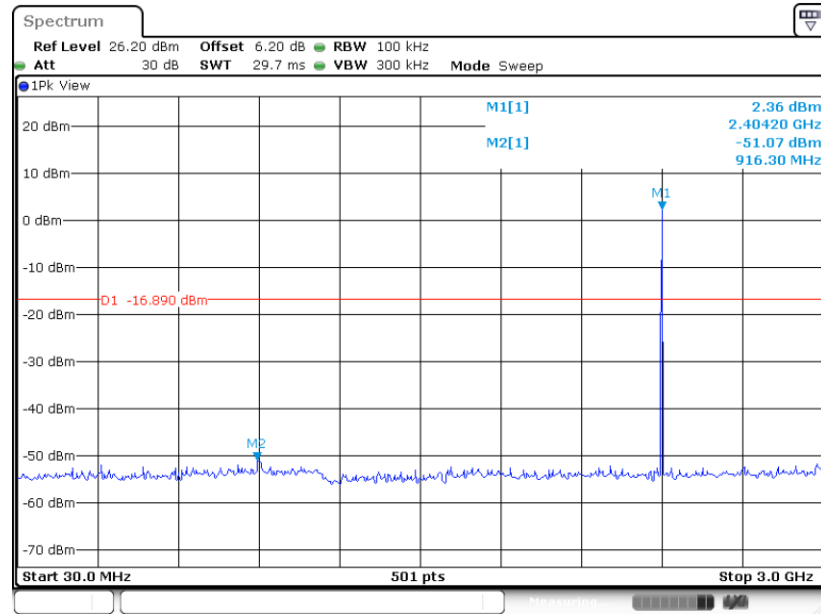


3.4.6 Test Result of Conducted Spurious Emission Plots

Bluetooth LE 1Mbps

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

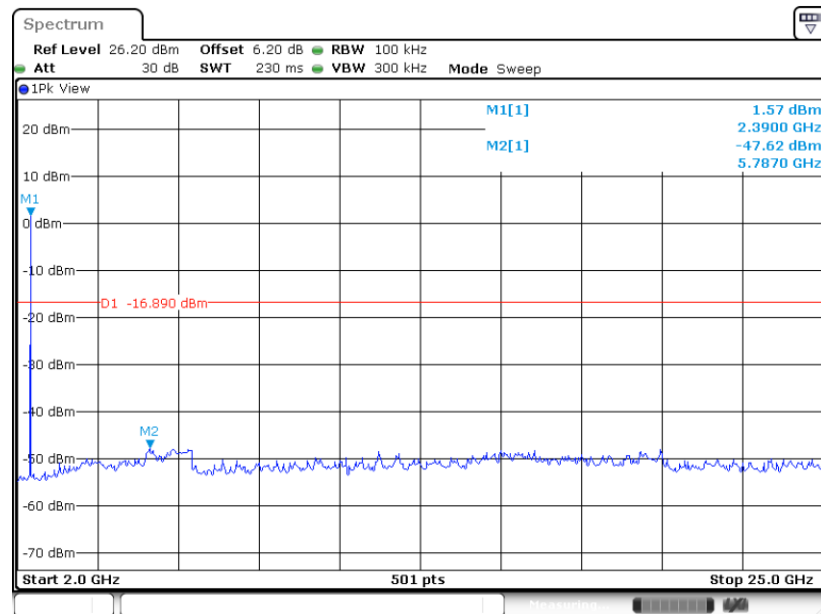
GFSK Channel 00



Date: 21.MAY.2021 15:16:12

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

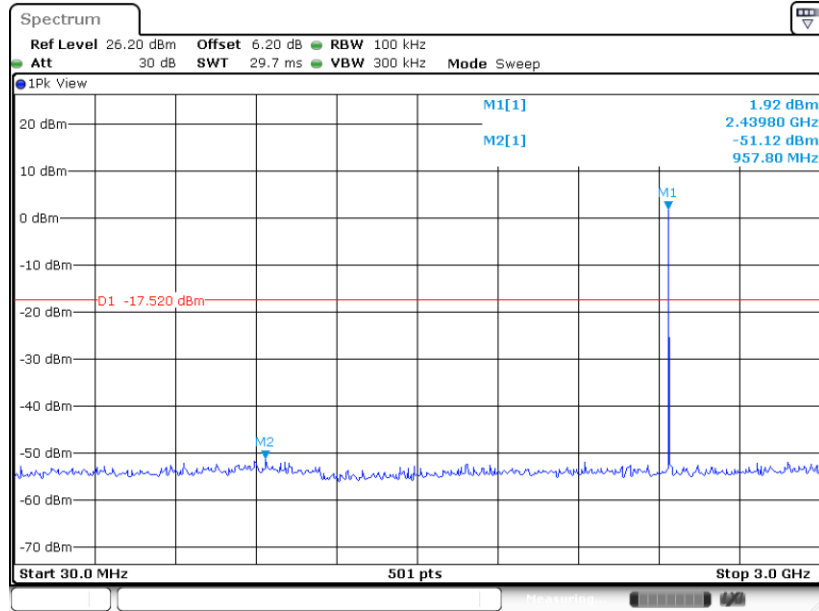
GFSK Channel 00



Date: 21.MAY.2021 15:16:24

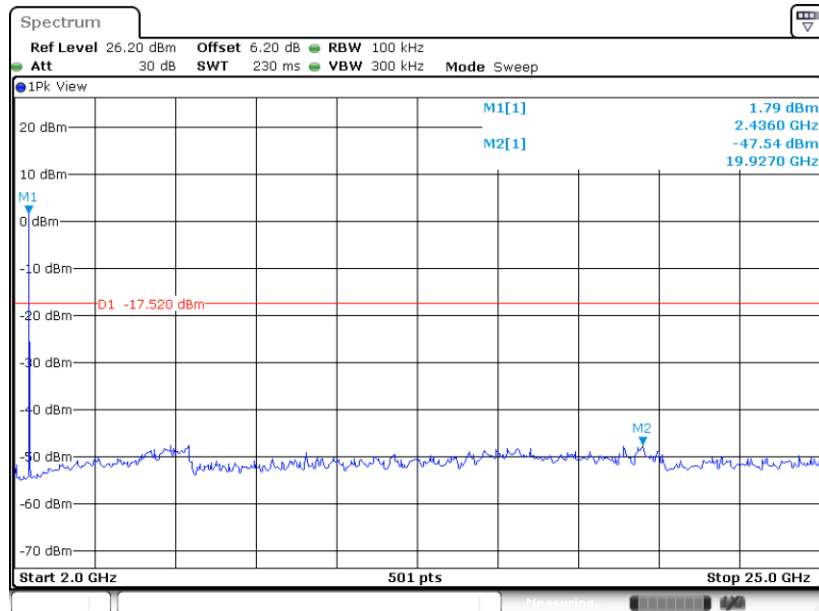


Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 21.MAY.2021 15:19:52

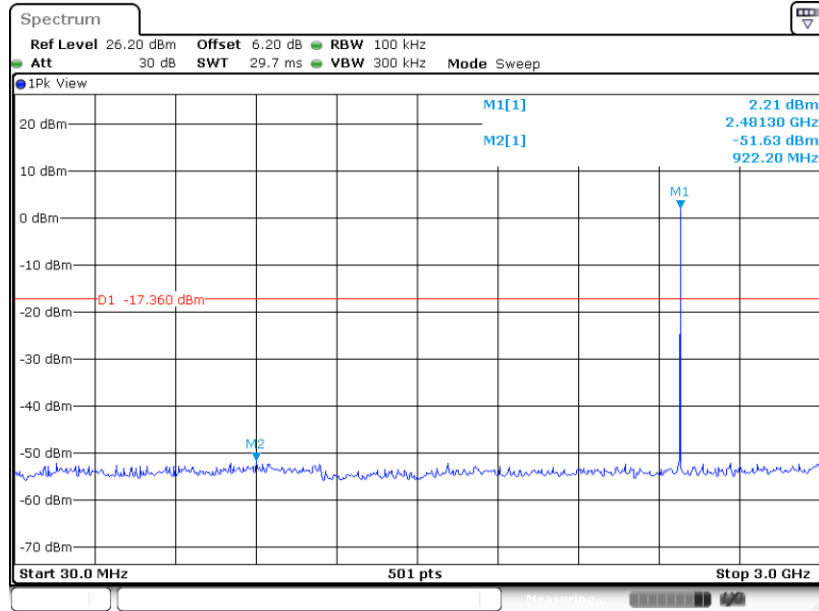
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 21.MAY.2021 15:20:03

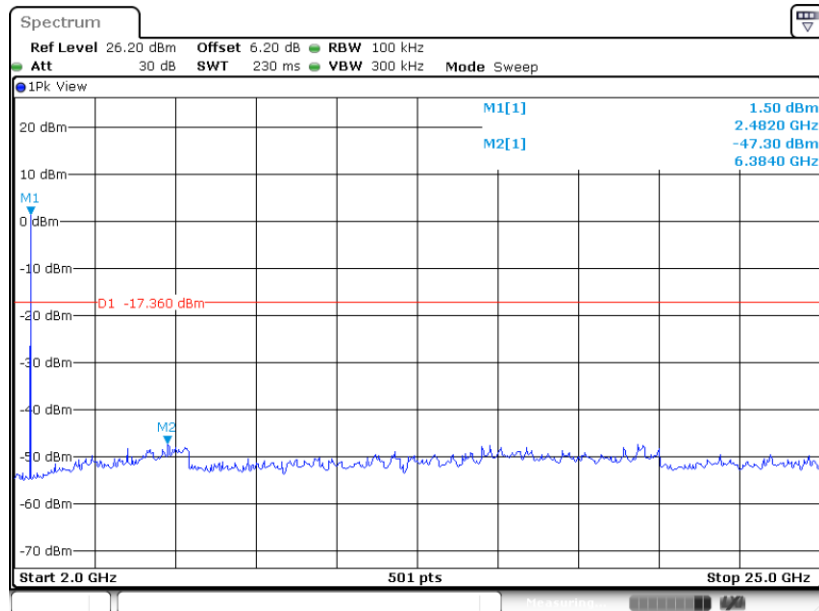


Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 21.MAY.2021 15:23:14

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39

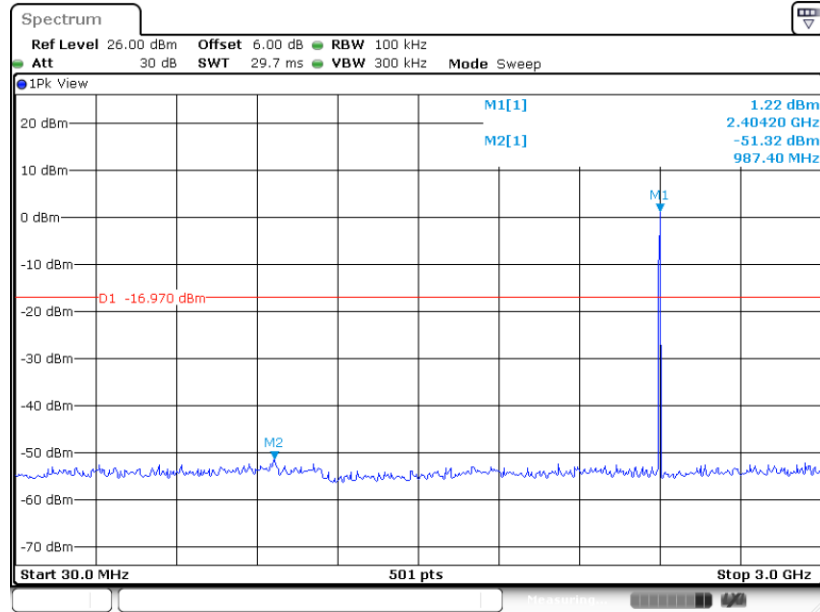


Date: 21.MAY.2021 15:23:24



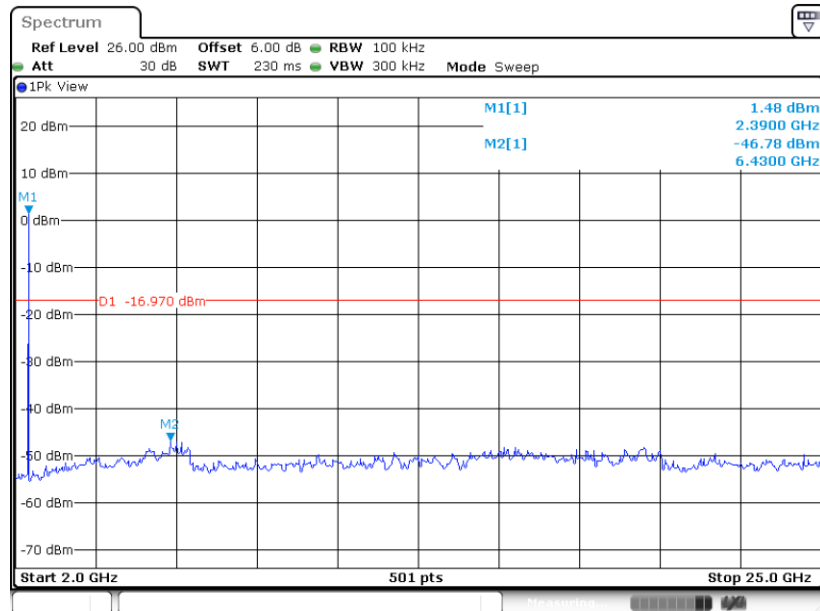
Bluetooth LE 2Mbps

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps
GFSK Channel 00



Date: 21.MAY.2021 15:34:13

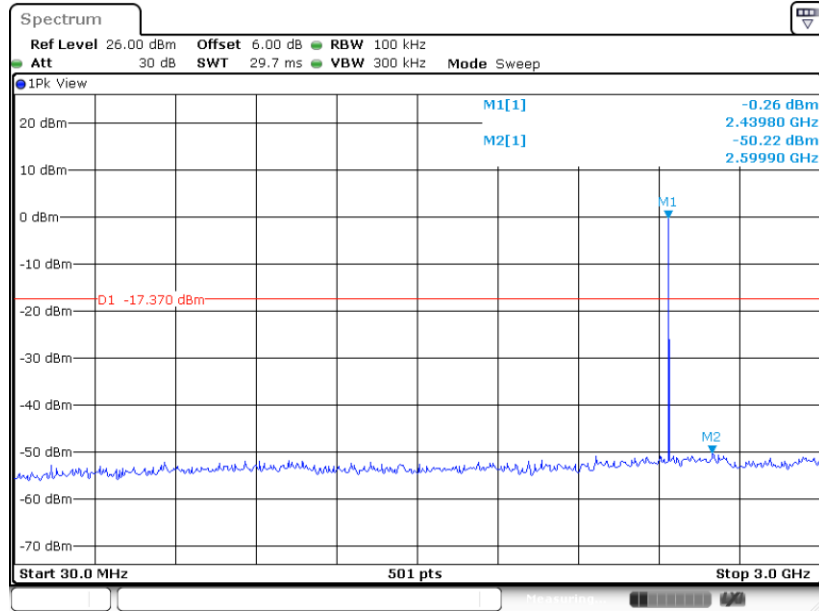
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps
GFSK Channel 01



Date: 21.MAY.2021 15:34:24

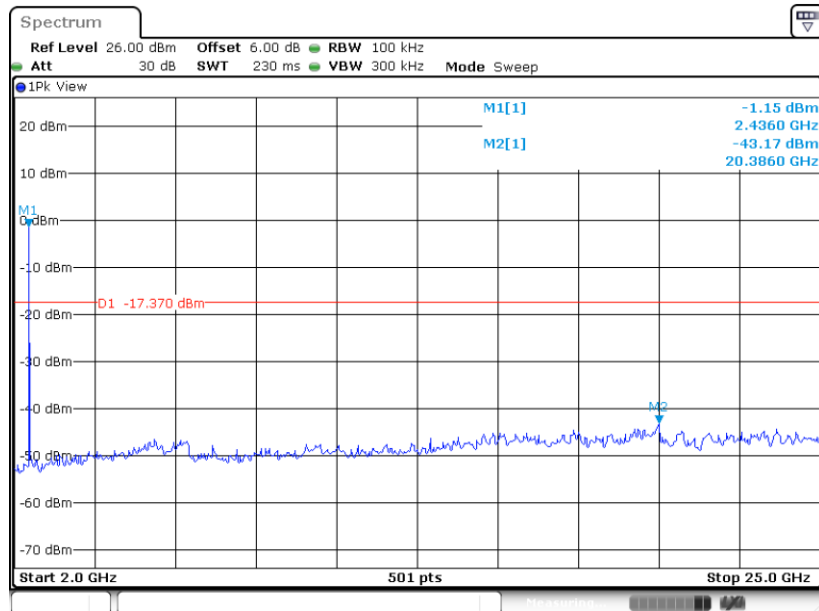


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19



Date: 21.MAY.2021 08:57:52

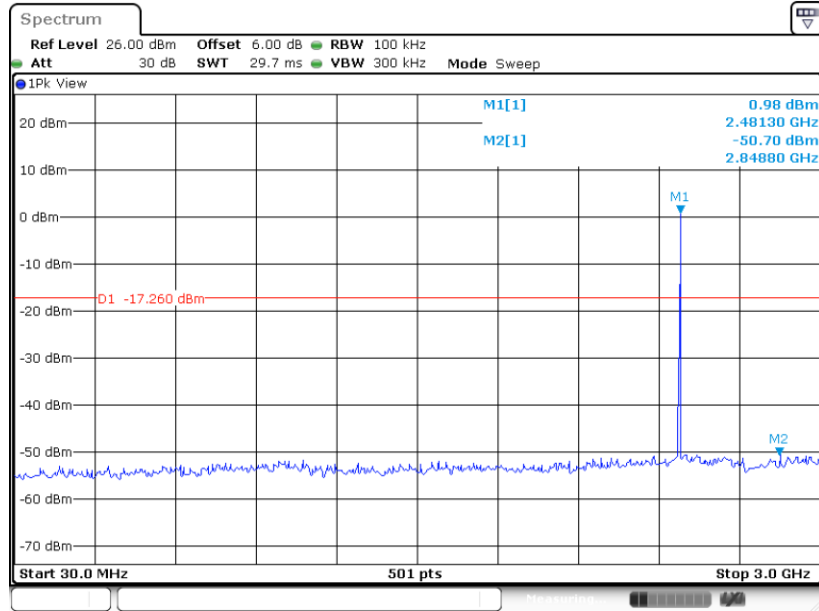
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19



Date: 21.MAY.2021 08:58:04

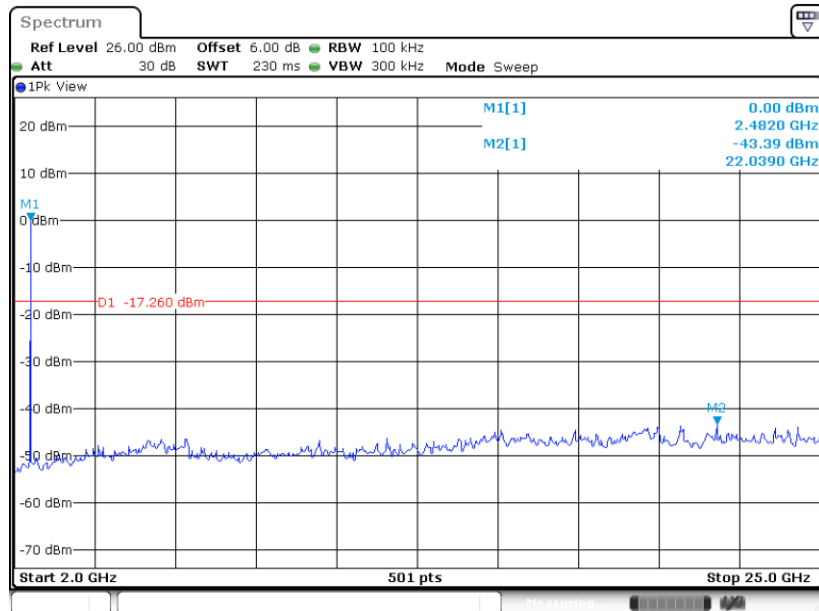


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 39



Date: 21.MAY.2021 09:01:18

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 39



Date: 21.MAY.2021 09:01:29



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.

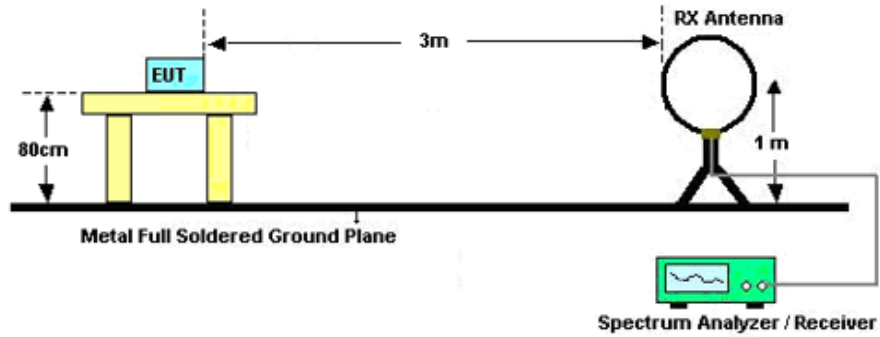


3.5.3 Test Procedures

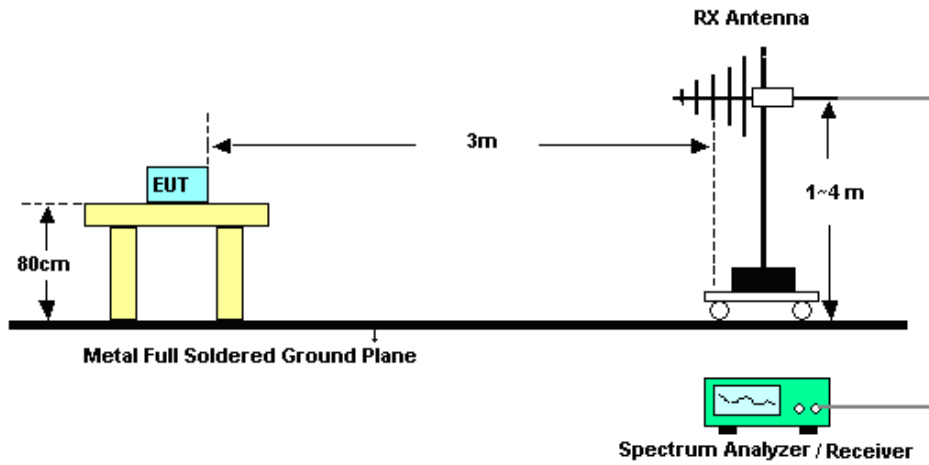
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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

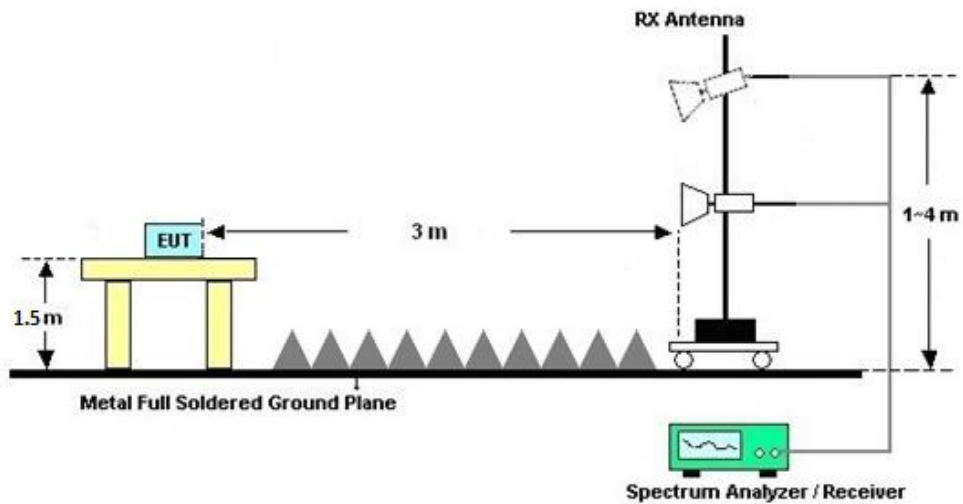
For radiated emissions below 30MHz



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 B & 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 B & C.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 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 | Nov. 01, 2020 | May 21, 2021 | Oct. 31, 2021 | Conducted (TH01-KS) |
| Pulse Power Sensor | Anritsu | MA2411B | 0917070 | 300MHz~40GHz | Jan. 07, 2021 | May 21, 2021 | Jan. 06, 2022 | Conducted (TH01-KS) |
| Power Meter | Anritsu | ML2495A | 1005002 | 50MHz Bandwidth | Jan. 07, 2021 | May 21, 2021 | Jan. 06, 2022 | Conducted (TH01-KS) |
| EMI Test Receiver | Keysight | N9038A | MY56400004 | 3Hz~8.5GHz;Max 30dBm | Oct. 17, 2020 | May 27, 2021 | Oct. 16, 2021 | Radiation (03CH06-KS) |
| EXA Spectrum Analyzer | Keysight | N9010A | MY55150208 | 10Hz-44GHz | Apr. 12, 2021 | May 27, 2021 | Apr. 11, 2022 | Radiation (03CH06-KS) |
| Loop Antenna | R&S | HFH2-Z2 | 100321 | 9kHz~30MHz | Nov. 01, 2020 | May 27, 2021 | Oct. 31, 2021 | Radiation (03CH06-KS) |
| Bilog Antenna | TeseQ | CBL6111D | 49921 | 30MHz-1GHz | May 29, 2020 | May 27, 2021 | May 28, 2021 | Radiation (03CH06-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00218652 | 1GHz~18GHz | Apr. 25, 2021 | May 27, 2021 | Apr. 24, 2022 | Radiation (03CH06-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101115 | 18GHz~40GHz | Nov. 10, 2020 | May 27, 2021 | Nov. 09, 2021 | Radiation (03CH06-KS) |
| Amplifier | SONOMA | 310N | 187289 | 9KHz ~1GHZ | Apr. 12, 2021 | May 27, 2021 | Apr. 11, 2022 | Radiation (03CH06-KS) |
| Amplifier | MITEQ | EM18G40GGA | 060728 | 18~40GHz | Jan. 06, 2021 | May 27, 2021 | Jan. 05, 2022 | Radiation (03CH06-KS) |
| high gain Amplifier | MITEQ | AMF-7D-00101800-30-10P | 2025788 | 1Ghz-18Ghz | Jan. 06, 2021 | May 27, 2021 | Jan. 05, 2022 | Radiation (03CH06-KS) |
| Amplifier | Keysight | 83017A | MY53270203 | 500MHz~26.5GHz | Apr. 13, 2021 | May 27, 2021 | Apr. 12, 2022 | Radiation (03CH06-KS) |
| AC Power Source | Chroma | 61601 | F104090004 | N/A | NCR | May 27, 2021 | NCR | Radiation (03CH06-KS) |
| Turn Table | ChamPro | EM 1000-T | 060762-T | 0~360 degree | NCR | May 27, 2021 | NCR | Radiation (03CH06-KS) |
| Antenna Mast | ChamPro | EM 1000-A | 060762-A | 1 m~4 m | NCR | May 27, 2021 | NCR | Radiation (03CH06-KS) |

NCR: No Calibration Required



5 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0dB |
|---|-------|

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

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0dB |
|---|-------|

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

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0dB |
|---|-------|



Appendix A. Conducted Test Results

Bluetooth Low Energy 1Mbps

| | | | | |
|----------------|-----------|--------------------|-------|----|
| Test Engineer: | Jiang Jun | Temperature: | 20~26 | °C |
| Test Date: | 2021/5/21 | Relative Humidity: | 40~51 | % |

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 | 1Mbps | 1 | 0 | 2402 | 1.143 | 0.820 | 0.50 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 1.135 | 0.816 | 0.50 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 1.125 | 0.808 | 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 | 1Mbps | 1 | 0 | 2402 | 3.89 | 30.00 | 3.60 | 7.49 | 36.00 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 3.22 | 30.00 | 3.60 | 6.82 | 36.00 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 3.43 | 30.00 | 3.60 | 7.03 | 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 | 1Mbps | 1 | 0 | 2402 | 2.04 | 3.52 |
| BLE | 1Mbps | 1 | 19 | 2440 | 2.04 | 2.93 |
| BLE | 1Mbps | 1 | 39 | 2480 | 2.04 | 3.16 |

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 | 1Mbps | 1 | 0 | 2402 | 3.11 | -11.05 | 3.60 | 8.00 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 2.48 | -11.64 | 3.60 | 8.00 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 2.64 | -11.51 | 3.60 | 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 2Mbps

| | | | | |
|----------------|-----------|--------------------|-------|----|
| Test Engineer: | Jiang Jun | Temperature: | 20~26 | °C |
| Test Date: | 2021/5/21 | Relative Humidity: | 40~51 | % |

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 | 2.098 | 1.048 | 0.50 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 2.086 | 1.052 | 0.50 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 2.070 | 1.048 | 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 | 3.69 | 30.00 | 3.60 | 7.29 | 36.00 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 3.03 | 30.00 | 3.60 | 6.63 | 36.00 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 3.23 | 30.00 | 3.60 | 6.83 | 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 | 4.83 | 3.25 |
| BLE | 2Mbps | 1 | 19 | 2440 | 4.83 | 2.97 |
| BLE | 2Mbps | 1 | 39 | 2480 | 4.83 | 3.08 |

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 | 3.03 | -13.42 | 3.60 | 8.00 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 2.63 | -13.79 | 3.60 | 8.00 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 2.74 | -13.60 | 3.60 | 8.00 | Pass |

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



Appendix B. Radiated Spurious Emission

Bluetooth LE 1Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

| BLE | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|-------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| BLE CH 00 2402MHz | | 2358.1 | 54.65 | -19.35 | 74 | 48.03 | 32.05 | 8.02 | 33.45 | 146 | 68 | P | H |
| | | 2384.36 | 44.41 | -9.59 | 54 | 37.65 | 32.15 | 8.06 | 33.45 | 146 | 68 | A | H |
| | * | 2402 | 100.83 | - | - | 93.98 | 32.2 | 8.09 | 33.44 | 146 | 68 | P | H |
| | * | 2402 | 100.06 | - | - | 93.21 | 32.2 | 8.09 | 33.44 | 146 | 68 | A | H |
| | | 2383.45 | 55.74 | -18.26 | 74 | 47.84 | 33.29 | 8.06 | 33.45 | 380 | 111 | P | V |
| | | 2388.13 | 45.64 | -8.36 | 54 | 37.5 | 33.5 | 8.09 | 33.45 | 380 | 111 | A | V |
| | * | 2402 | 98.6 | - | - | 90.45 | 33.5 | 8.09 | 33.44 | 380 | 111 | P | V |
| | * | 2402 | 97.88 | - | - | 89.73 | 33.5 | 8.09 | 33.44 | 380 | 111 | A | V |
| BLE CH 19 2440MHz | | 2349.52 | 54.34 | -19.66 | 74 | 47.75 | 32.05 | 7.99 | 33.45 | 168 | 64 | P | H |
| | | 2372.66 | 44.42 | -9.58 | 54 | 37.71 | 32.1 | 8.06 | 33.45 | 168 | 64 | A | H |
| | | 2488.6 | 54.26 | -19.74 | 74 | 47.74 | 31.7 | 8.24 | 33.42 | 168 | 64 | P | H |
| | | 2484.88 | 44.39 | -9.61 | 54 | 37.8 | 31.8 | 8.22 | 33.43 | 168 | 64 | A | H |
| | * | 2440 | 101.31 | - | - | 94.58 | 32 | 8.16 | 33.43 | 168 | 64 | P | H |
| | * | 2440 | 100.6 | - | - | 93.87 | 32 | 8.16 | 33.43 | 168 | 64 | A | H |
| | | 2375.78 | 55.37 | -18.63 | 74 | 47.47 | 33.29 | 8.06 | 33.45 | 367 | 105 | P | V |
| | | 2389.56 | 45.55 | -8.45 | 54 | 37.41 | 33.5 | 8.09 | 33.45 | 367 | 105 | A | V |
| | | 2494.36 | 55.3 | -18.7 | 74 | 47.75 | 32.73 | 8.24 | 33.42 | 367 | 105 | P | V |
| | | 2490.88 | 45.34 | -8.66 | 54 | 37.79 | 32.73 | 8.24 | 33.42 | 367 | 105 | A | V |
| | * | 2440 | 98.37 | - | - | 90.53 | 33.11 | 8.16 | 33.43 | 367 | 105 | P | V |
| | * | 2440 | 97.53 | - | - | 89.69 | 33.11 | 8.16 | 33.43 | 367 | 105 | A | V |



| | | | | | | | | | | | | | |
|-------------------------|---|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| BLE CH 39 2480MHz | | 2483.74 | 54.42 | -19.58 | 74 | 47.83 | 31.8 | 8.22 | 33.43 | 107 | 62 | P | H |
| | | 2483.5 | 47.05 | -6.95 | 54 | 40.46 | 31.8 | 8.22 | 33.43 | 107 | 62 | A | H |
| | * | 2480 | 100.66 | - | - | 94.07 | 31.8 | 8.22 | 33.43 | 107 | 62 | P | H |
| | * | 2480 | 99.95 | - | - | 93.36 | 31.8 | 8.22 | 33.43 | 107 | 62 | A | H |
| | | 2491.54 | 55.6 | -18.4 | 74 | 48.05 | 32.73 | 8.24 | 33.42 | 353 | 100 | P | V |
| | | 2483.5 | 47.17 | -6.83 | 54 | 39.52 | 32.86 | 8.22 | 33.43 | 353 | 100 | A | V |
| | * | 2480 | 98.7 | - | - | 91.05 | 32.86 | 8.22 | 33.43 | 353 | 100 | P | V |
| | * | 2480 | 97.94 | - | - | 90.29 | 32.86 | 8.22 | 33.43 | 353 | 100 | A | V |
| Remark | <ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz
BLE (Harmonic @ 3m)

Table with 14 columns: BLE, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include BLE CH 00 (2402MHz), BLE CH 19 (2440MHz), and BLE CH 39 (2480MHz) with multiple frequency entries.

Remark

- 1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



Emission below 1GHz

2.4GHz BLE (LF)

| BLE | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---------------------|--|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 2.4GHz BLE LF | | 30 | 20.97 | -19.03 | 40 | 27.79 | 25.3 | 0.58 | 32.7 | - | - | P | H |
| | | 96.93 | 18.88 | -24.62 | 43.5 | 34.39 | 15.68 | 1.59 | 32.78 | - | - | P | H |
| | | 460.68 | 22.78 | -23.22 | 46 | 28.7 | 23.31 | 3.49 | 32.72 | - | - | P | H |
| | | 690.57 | 26.2 | -19.8 | 46 | 28.01 | 26.7 | 4.27 | 32.78 | - | - | P | H |
| | | 831.22 | 28.73 | -17.27 | 46 | 27.75 | 28.84 | 4.7 | 32.56 | 203 | 35 | P | H |
| | | 979.63 | 27.67 | -26.33 | 54 | 24.47 | 30.28 | 5.1 | 32.18 | - | - | P | H |
| | | 30.97 | 21.59 | -18.41 | 40 | 29.66 | 24.04 | 0.59 | 32.7 | 108 | 98 | P | V |
| | | 96.93 | 19.02 | -24.48 | 43.5 | 33.74 | 16.47 | 1.59 | 32.78 | - | - | P | V |
| | | 442.25 | 22.73 | -23.27 | 46 | 29.57 | 22.46 | 3.42 | 32.72 | - | - | P | V |
| | | 557.68 | 25.07 | -20.93 | 46 | 28.86 | 24.95 | 3.84 | 32.58 | - | - | P | V |
| | | 855.47 | 27.56 | -18.44 | 46 | 28.95 | 26.43 | 4.77 | 32.59 | - | - | P | V |
| | | 965.08 | 27.22 | -26.78 | 54 | 27.35 | 27.05 | 5.06 | 32.24 | - | - | P | V |
| Remark | 1. No other spurious found. 2. All results are PASS against limit line. | | | | | | | | | | | | |



Bluetooth LE 2Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

| BLE | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|-------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| BLE CH 00 2402MHz | | 2366.03 | 54.14 | -19.86 | 74 | 47.47 | 32.1 | 8.02 | 33.45 | 146 | 67 | P | H |
| | | 2389.3 | 43.88 | -10.12 | 54 | 37.09 | 32.15 | 8.09 | 33.45 | 146 | 67 | A | H |
| | * | 2402 | 101.37 | - | - | 94.52 | 32.2 | 8.09 | 33.44 | 146 | 67 | P | H |
| | * | 2402 | 99.78 | - | - | 92.93 | 32.2 | 8.09 | 33.44 | 146 | 67 | A | H |
| | | 2386.83 | 55.72 | -18.28 | 74 | 47.58 | 33.5 | 8.09 | 33.45 | 382 | 111 | P | V |
| | | 2388.26 | 45.14 | -8.86 | 54 | 37 | 33.5 | 8.09 | 33.45 | 382 | 111 | A | V |
| | * | 2402 | 99.34 | - | - | 91.19 | 33.5 | 8.09 | 33.44 | 382 | 111 | P | V |
| | * | 2402 | 97.72 | - | - | 89.57 | 33.5 | 8.09 | 33.44 | 382 | 111 | A | V |
| BLE CH 19 2440MHz | | 2381.76 | 55.1 | -18.9 | 74 | 48.39 | 32.1 | 8.06 | 33.45 | 169 | 64 | P | H |
| | | 2382.93 | 44.07 | -9.93 | 54 | 37.31 | 32.15 | 8.06 | 33.45 | 169 | 64 | A | H |
| | | 2489.74 | 53.94 | -20.06 | 74 | 47.42 | 31.7 | 8.24 | 33.42 | 169 | 64 | P | H |
| | | 2483.98 | 43.92 | -10.08 | 54 | 37.33 | 31.8 | 8.22 | 33.43 | 169 | 64 | A | H |
| | * | 2440 | 101.8 | - | - | 95.07 | 32 | 8.16 | 33.43 | 169 | 64 | P | H |
| | * | 2440 | 100.4 | - | - | 93.67 | 32 | 8.16 | 33.43 | 169 | 64 | A | H |
| | | 2381.89 | 55.48 | -18.52 | 74 | 47.58 | 33.29 | 8.06 | 33.45 | 369 | 103 | P | V |
| | | 2389.69 | 45.45 | -8.55 | 54 | 37.31 | 33.5 | 8.09 | 33.45 | 369 | 103 | A | V |
| | | 2499.58 | 55.12 | -18.88 | 74 | 47.57 | 32.73 | 8.24 | 33.42 | 369 | 103 | P | V |
| | | 2486.02 | 44.96 | -9.04 | 54 | 37.3 | 32.86 | 8.22 | 33.42 | 369 | 103 | A | V |
| | * | 2440 | 98.66 | - | - | 90.82 | 33.11 | 8.16 | 33.43 | 369 | 103 | P | V |
| | * | 2440 | 97.23 | - | - | 89.39 | 33.11 | 8.16 | 33.43 | 369 | 103 | A | V |



| | | | | | | | | | | | | | |
|-------------------------|---|---------|--------|-------|----|-------|-------|------|-------|-----|-----|---|---|
| BLE CH 39 2480MHz | | 2483.5 | 56.2 | -17.8 | 74 | 49.61 | 31.8 | 8.22 | 33.43 | 157 | 236 | P | H |
| | | 2483.5 | 50.29 | -3.71 | 54 | 43.7 | 31.8 | 8.22 | 33.43 | 157 | 236 | A | H |
| | * | 2480 | 100.83 | - | - | 94.24 | 31.8 | 8.22 | 33.43 | 157 | 236 | P | H |
| | * | 2480 | 99.59 | - | - | 93 | 31.8 | 8.22 | 33.43 | 157 | 236 | A | H |
| | | 2483.56 | 56.4 | -17.6 | 74 | 48.75 | 32.86 | 8.22 | 33.43 | 353 | 103 | P | V |
| | | 2483.5 | 48.49 | -5.51 | 54 | 40.84 | 32.86 | 8.22 | 33.43 | 353 | 103 | A | V |
| | * | 2480 | 98.26 | - | - | 90.61 | 32.86 | 8.22 | 33.43 | 353 | 103 | P | V |
| | * | 2480 | 96.8 | - | - | 89.15 | 32.86 | 8.22 | 33.43 | 353 | 103 | A | V |
| Remark | <ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

| BLE | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Path Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------|---|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE CH 00 2402MHz | | 4806 | 44.67 | -29.33 | 74 | 59.37 | 34.96 | 11.51 | 61.17 | 300 | 0 | P | H |
| | | 4806 | 45.03 | -28.97 | 74 | 59.85 | 34.84 | 11.51 | 61.17 | 300 | 360 | P | V |
| BLE CH 19 2440MHz | | 4878 | 44.61 | -29.39 | 74 | 59.08 | 35.04 | 11.6 | 61.11 | 300 | 0 | P | H |
| | | 7320 | 43.21 | -30.79 | 74 | 52.73 | 36.86 | 14.69 | 61.07 | 300 | 0 | P | H |
| | | 4878 | 44.02 | -29.98 | 74 | 58.7 | 34.83 | 11.6 | 61.11 | 300 | 360 | P | V |
| BLE CH 39 2480MHz | | 7320 | 42.44 | -31.56 | 74 | 52.42 | 36.4 | 14.69 | 61.07 | 300 | 360 | P | V |
| | | 4962 | 46.14 | -27.86 | 74 | 60.33 | 35.14 | 11.71 | 61.04 | 300 | 0 | P | H |
| | | 7440 | 42.48 | -31.52 | 74 | 51.76 | 36.89 | 14.88 | 61.05 | 300 | 0 | P | H |
| | | 4962 | 44.01 | -29.99 | 74 | 58.53 | 34.81 | 11.71 | 61.04 | 300 | 360 | P | V |
| | | 7440 | 42.2 | -31.8 | 74 | 51.9 | 36.47 | 14.88 | 61.05 | 300 | 360 | P | V |
| Remark | <ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Emission below 1GHz

2.4GHz BLE (LF)

| BLE | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---------------------|--|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 2.4GHz BLE LF | | 30 | 19.97 | -20.03 | 40 | 26.79 | 25.3 | 0.58 | 32.7 | - | - | P | H |
| | | 96.93 | 17.88 | -25.62 | 43.5 | 33.39 | 15.68 | 1.59 | 32.78 | - | - | P | H |
| | | 565.44 | 24.71 | -21.29 | 46 | 28.06 | 25.35 | 3.87 | 32.57 | - | - | P | H |
| | | 690.57 | 25.2 | -20.8 | 46 | 27.01 | 26.7 | 4.27 | 32.78 | - | - | P | H |
| | | 831.22 | 27.73 | -18.27 | 46 | 26.75 | 28.84 | 4.7 | 32.56 | 185 | 65 | P | H |
| | | 979.63 | 26.67 | -27.33 | 54 | 23.47 | 30.28 | 5.1 | 32.18 | - | - | P | H |
| | | 30.97 | 20.59 | -19.41 | 40 | 28.66 | 24.04 | 0.59 | 32.7 | 120 | 36 | P | V |
| | | 96.93 | 22.02 | -21.48 | 43.5 | 36.74 | 16.47 | 1.59 | 32.78 | - | - | P | V |
| | | 557.68 | 24.07 | -21.93 | 46 | 27.86 | 24.95 | 3.84 | 32.58 | - | - | P | V |
| | | 694.45 | 25.4 | -20.6 | 46 | 29.08 | 24.83 | 4.28 | 32.79 | - | - | P | V |
| | | 855.47 | 26.56 | -19.44 | 46 | 27.95 | 26.43 | 4.77 | 32.59 | - | - | P | V |
| | | 982.54 | 26.33 | -27.67 | 54 | 26.17 | 27.23 | 5.1 | 32.17 | - | - | P | V |
| Remark | 1. No other spurious found. 2. All results are PASS against limit line. | | | | | | | | | | | | |



Note symbol

| | |
|-----|--|
| * | Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| ! | Test result is over limit line. |
| P/A | Peak or Average |
| H/V | Horizontal or Vertical |



A calculation example for radiated spurious emission is shown as below:

| BLE | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|-------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| BLE CH 00 2402MHz | | 2390 | 55.45 | -18.55 | 74 | 54.51 | 32.22 | 4.58 | 35.86 | 103 | 308 | P | H |
| | | 2390 | 43.54 | -10.46 | 54 | 42.6 | 32.22 | 4.58 | 35.86 | 103 | 308 | A | H |

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix C. Radiated Spurious Emission Plots

Note symbol

| | |
|----|-----------------------|
| -L | Low channel location |
| -R | High channel location |



Bluetooth LE 1Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|-------------|-------------|--------|--------|--------|----------|----------|------------|------------|-------|------|-------|--------|------|--------|----|-----|-----|-------|----|-------|----|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------------|------------|---|------|-------|-------------|-------|--------|-------|-------|--------|----------|------|-------|------|-------|--------|------|--------|----|-----|-----|-------|----|-------|----|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|-----|------------|------------|
| ANT | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 03DHS-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz YBW:2000.000kHz SRT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cn</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2398.10</td> <td>54.65</td> <td>-19.35</td> <td>74.00</td> <td>48.03</td> <td>32.05</td> <td>8.02</td> <td>33.45</td> <td>146</td> <td>08 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | cn | deg | MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | 1 | 2398.10 | 54.65 | -19.35 | 74.00 | 48.03 | 32.05 | 8.02 | 33.45 | 146 | 08 Peak | HORIZONTAL | <p>Site : 03DHS-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz YBW:2000.000kHz SRT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cn</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</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>100.83</td> <td>26.83</td> <td>74.00</td> <td>93.98</td> <td>32.20</td> <td>8.09</td> <td>33.44</td> <td>146</td> <td>08 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | cn | deg | MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | 1 | 2402.00 | 100.83 | 26.83 | 74.00 | 93.98 | 32.20 | 8.09 | 33.44 | 146 | 08 Peak | HORIZONTAL |
| | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2398.10 | 54.65 | -19.35 | 74.00 | 48.03 | 32.05 | 8.02 | 33.45 | 146 | 08 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 100.83 | 26.83 | 74.00 | 93.98 | 32.20 | 8.09 | 33.44 | 146 | 08 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 03DHS-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz YBW:2.700kHz SRT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cn</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2384.35</td> <td>44.41</td> <td>-9.59</td> <td>54.00</td> <td>37.65</td> <td>32.15</td> <td>8.06</td> <td>33.45</td> <td>146</td> <td>08 Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | cn | deg | MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | 1 | 2384.35 | 44.41 | -9.59 | 54.00 | 37.65 | 32.15 | 8.06 | 33.45 | 146 | 08 Average | HORIZONTAL | <p>Site : 03DHS-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz YBW:2.700kHz SRT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cn</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</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>100.06</td> <td>46.06</td> <td>54.00</td> <td>93.21</td> <td>32.20</td> <td>8.09</td> <td>33.44</td> <td>146</td> <td>08 Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | cn | deg | MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | 1 | 2402.00 | 100.06 | 46.06 | 54.00 | 93.21 | 32.20 | 8.09 | 33.44 | 146 | 08 Average | HORIZONTAL |
| | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2384.35 | 44.41 | -9.59 | 54.00 | 37.65 | 32.15 | 8.06 | 33.45 | 146 | 08 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 100.06 | 46.06 | 54.00 | 93.21 | 32.20 | 8.09 | 33.44 | 146 | 08 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------|-------------|-------------|-------------|--------|--------|--------|-------------|----------|----------|-----|-------|----|-------|-----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|----------|---|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|-------|----|-------|-----|----|----|----|-----|--|--|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-------------|----------|
| ANT | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 03200-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW 1000.000kHz VBW 2000.000kHz SFT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2383.45</td> <td>55.74</td> <td>-18.26</td> <td>74.00</td> <td>47.84</td> <td>33.29</td> <td>8.06</td> <td>33.45</td> <td>380</td> <td>111 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | 1 | 2383.45 | 55.74 | -18.26 | 74.00 | 47.84 | 33.29 | 8.06 | 33.45 | 380 | 111 Peak | VERTICAL | <p>Site : 03200-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW 1000.000kHz VBW 2000.000kHz SFT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>98.60</td> <td>24.60</td> <td>74.00</td> <td>90.45</td> <td>33.50</td> <td>8.09</td> <td>33.44</td> <td>380</td> <td>111 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | 1 | 2402.00 | 98.60 | 24.60 | 74.00 | 90.45 | 33.50 | 8.09 | 33.44 | 380 | 111 Peak | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2383.45 | 55.74 | -18.26 | 74.00 | 47.84 | 33.29 | 8.06 | 33.45 | 380 | 111 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 98.60 | 24.60 | 74.00 | 90.45 | 33.50 | 8.09 | 33.44 | 380 | 111 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg | <p>Site : 03200-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RBW 1000.000kHz VBW 7.000kHz SFT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2388.13</td> <td>45.64</td> <td>-8.36</td> <td>54.00</td> <td>37.50</td> <td>33.50</td> <td>8.09</td> <td>33.45</td> <td>380</td> <td>111 Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | 1 | 2388.13 | 45.64 | -8.36 | 54.00 | 37.50 | 33.50 | 8.09 | 33.45 | 380 | 111 Average | VERTICAL | <p>Site : 03200-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RBW 1000.000kHz VBW 7.000kHz SFT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>97.88</td> <td>43.88</td> <td>54.00</td> <td>89.73</td> <td>33.50</td> <td>8.09</td> <td>33.44</td> <td>380</td> <td>111 Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | 1 | 2402.00 | 97.88 | 43.88 | 54.00 | 89.73 | 33.50 | 8.09 | 33.44 | 380 | 111 Average | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2388.13 | 45.64 | -8.36 | 54.00 | 37.50 | 33.50 | 8.09 | 33.45 | 380 | 111 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 97.88 | 43.88 | 54.00 | 89.73 | 33.50 | 8.09 | 33.44 | 380 | 111 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------------|-------------|--------------|--------|----------------|-----------------------|----------|------|-------|------|-------|--------|------|--------|--|-----|-----|----|----|----|----|----|--------|---|---------|-------|--------|-------|-------|-------|----------------|-----------------------|--|------|-------|-------------|--------------|-------|-------|--------|----------|------|-------|------|-------|--------|------|--------|--|-----|-----|----|----|----|----|----|--------|---|---------|--------|-------|-------|-------|-------|----------------|-----------------------|
| ANT | BLE CH19 2440MHz - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site Condition : 032004-KS FCC PART 15C 3m 3117 SN 75957 HORIZONTAL SMA 1000 200MHz Use 1: 700MHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cn deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2349.52</td> <td>54.34</td> <td>-19.66</td> <td>74.00</td> <td>47.75</td> <td>32.05</td> <td>7.99 33.45 168</td> <td>64 Peak HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | | MHz | dBm | dB | dB | dB | dB | dB | cn deg | 1 | 2349.52 | 54.34 | -19.66 | 74.00 | 47.75 | 32.05 | 7.99 33.45 168 | 64 Peak HORIZONTAL | <p>Site Condition : 032004-KS FCC PART 15C 3m 3117 SN 75957 HORIZONTAL SMA 1000 200MHz Use 1: 700MHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cn deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>101.31</td> <td>27.31</td> <td>74.00</td> <td>94.58</td> <td>32.00</td> <td>8.16 33.43 168</td> <td>64 Peak HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | | MHz | dBm | dB | dB | dB | dB | dB | cn deg | 1 | 2440.00 | 101.31 | 27.31 | 74.00 | 94.58 | 32.00 | 8.16 33.43 168 | 64 Peak HORIZONTAL |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dB | dB | dB | dB | dB | cn deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2349.52 | 54.34 | -19.66 | 74.00 | 47.75 | 32.05 | 7.99 33.45 168 | 64 Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dB | dB | dB | dB | dB | cn deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 101.31 | 27.31 | 74.00 | 94.58 | 32.00 | 8.16 33.43 168 | 64 Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site Condition : 032004-KS FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL SMA 1000 200MHz Use 1: 700MHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cn deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2372.66</td> <td>44.42</td> <td>-9.58</td> <td>54.00</td> <td>37.71</td> <td>32.10</td> <td>8.05 33.45 168</td> <td>64 Average HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | | MHz | dBm | dB | dB | dB | dB | dB | cn deg | 1 | 2372.66 | 44.42 | -9.58 | 54.00 | 37.71 | 32.10 | 8.05 33.45 168 | 64 Average HORIZONTAL | <p>Site Condition : 032004-KS FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL SMA 1000 200MHz Use 1: 700MHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cn deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>100.60</td> <td>46.60</td> <td>54.00</td> <td>93.87</td> <td>32.00</td> <td>8.16 33.43 168</td> <td>64 Average HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | | MHz | dBm | dB | dB | dB | dB | dB | cn deg | 1 | 2440.00 | 100.60 | 46.60 | 54.00 | 93.87 | 32.00 | 8.16 33.43 168 | 64 Average HORIZONTAL |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dB | dB | dB | dB | dB | cn deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2372.66 | 44.42 | -9.58 | 54.00 | 37.71 | 32.10 | 8.05 33.45 168 | 64 Average HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dB | dB | dB | dB | dB | cn deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 100.60 | 46.60 | 54.00 | 93.87 | 32.00 | 8.16 33.43 168 | 64 Average HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------|-------------|-------|-------------|-------|--------|--------|------------|------------|----------|-----|--------|----|--------|----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------------|------------|---|
| ANT | BLE CH19 2440MHz - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 03D04-KS Condition : FCC PART 15C 3m 3117 BW 75957 HORIZONTAL RBM 1000.000kHz VSW:2.000 SMT-Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>HeadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2488.60</td> <td>54.26</td> <td>-19.74</td> <td>74.00</td> <td>47.74</td> <td>31.70</td> <td>8.24</td> <td>33.42</td> <td>168</td> <td>64 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | HeadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Poi/Phas | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | cm | deg | | | 1 | 2488.60 | 54.26 | -19.74 | 74.00 | 47.74 | 31.70 | 8.24 | 33.42 | 168 | 64 Peak | HORIZONTAL | - |
| Freq | Level | Over | Limit | HeadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2488.60 | 54.26 | -19.74 | 74.00 | 47.74 | 31.70 | 8.24 | 33.42 | 168 | 64 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 03D04-KS Condition : FCC PART 15C (AVG) 3m 3117 BW 75957 HORIZONTAL RBM 1000.000kHz VSW:2.700kHz SMT-Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>HeadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2484.88</td> <td>44.29</td> <td>-9.01</td> <td>54.00</td> <td>27.80</td> <td>31.80</td> <td>8.22</td> <td>33.43</td> <td>168</td> <td>64 Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | HeadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Poi/Phas | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | cm | deg | | | 1 | 2484.88 | 44.29 | -9.01 | 54.00 | 27.80 | 31.80 | 8.22 | 33.43 | 168 | 64 Average | HORIZONTAL | - |
| Freq | Level | Over | Limit | HeadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2484.88 | 44.29 | -9.01 | 54.00 | 27.80 | 31.80 | 8.22 | 33.43 | 168 | 64 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------------|--------------|--------------|--------|----------|----------|----------|------|---------|----------|--------------|-------------|--|--|--|-----|--------|----|--------|------|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|----------|---|------|-------|-------------|--------------|-------|-------|--------|----------|------|-------|------|--------------|-------------|--|--|--|-----|--------|----|--------|------|----|----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|
| ANT | BLE CH19 2440MHz - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032040-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RSH-1000 0000Hz YSW-2.700MHz SWT-Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2375.78</td> <td>55.37</td> <td>-18.63</td> <td>74.00</td> <td>47.47</td> <td>33.29</td> <td>8.06</td> <td>33.45</td> <td>367</td> <td>105</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | 1 | 2375.78 | 55.37 | -18.63 | 74.00 | 47.47 | 33.29 | 8.06 | 33.45 | 367 | 105 | Peak | VERTICAL | <p>Site : 032040-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RSH-1000 0000Hz YSW-2.700MHz SWT-Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>98.37</td> <td>24.37</td> <td>74.00</td> <td>90.53</td> <td>33.11</td> <td>8.16</td> <td>33.43</td> <td>367</td> <td>105</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | 1 | 2440.00 | 98.37 | 24.37 | 74.00 | 90.53 | 33.11 | 8.16 | 33.43 | 367 | 105 | Peak | VERTICAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2375.78 | 55.37 | -18.63 | 74.00 | 47.47 | 33.29 | 8.06 | 33.45 | 367 | 105 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 98.37 | 24.37 | 74.00 | 90.53 | 33.11 | 8.16 | 33.43 | 367 | 105 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 032040-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RSH-1000 0000Hz YSW-2.700MHz SWT-Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.56</td> <td>45.55</td> <td>-8.45</td> <td>54.00</td> <td>37.41</td> <td>33.50</td> <td>8.09</td> <td>33.45</td> <td>367</td> <td>105</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | 1 | 2389.56 | 45.55 | -8.45 | 54.00 | 37.41 | 33.50 | 8.09 | 33.45 | 367 | 105 | Average | VERTICAL | <p>Site : 032040-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RSH-1000 0000Hz YSW-2.700MHz SWT-Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>97.53</td> <td>43.53</td> <td>54.00</td> <td>89.69</td> <td>33.11</td> <td>8.16</td> <td>33.43</td> <td>367</td> <td>105</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | 1 | 2440.00 | 97.53 | 43.53 | 54.00 | 89.69 | 33.11 | 8.16 | 33.43 | 367 | 105 | Average | VERTICAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2389.56 | 45.55 | -8.45 | 54.00 | 37.41 | 33.50 | 8.09 | 33.45 | 367 | 105 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 97.53 | 43.53 | 54.00 | 89.69 | 33.11 | 8.16 | 33.43 | 367 | 105 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------|-------------|--------------|-------------|--------------|--------|----------|-------------|----------|-----|-------|----|-------|-----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|----------|---|
| ANT | BLE CH19 2440MHz - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 03060-K3 Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Sweep 1000.000kHz VSW:2000.000Hz SRT:Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2494.36</td> <td>55.30</td> <td>-18.70</td> <td>74.00</td> <td>47.75</td> <td>32.73</td> <td>8.24</td> <td>33.42</td> <td>367</td> <td>105 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | cm | deg | | | 1 | 2494.36 | 55.30 | -18.70 | 74.00 | 47.75 | 32.73 | 8.24 | 33.42 | 367 | 105 Peak | VERTICAL | - |
| Freq | Level | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2494.36 | 55.30 | -18.70 | 74.00 | 47.75 | 32.73 | 8.24 | 33.42 | 367 | 105 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 03060-K3 Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Sweep 1000.000kHz VSW:2.7000kHz SRT:Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2490.88</td> <td>45.34</td> <td>-8.66</td> <td>54.00</td> <td>37.79</td> <td>32.73</td> <td>8.24</td> <td>33.42</td> <td>367</td> <td>105 Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | cm | deg | | | 1 | 2490.88 | 45.34 | -8.66 | 54.00 | 37.79 | 32.73 | 8.24 | 33.42 | 367 | 105 Average | VERTICAL | - |
| Freq | Level | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2490.88 | 45.34 | -8.66 | 54.00 | 37.79 | 32.73 | 8.24 | 33.42 | 367 | 105 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|--------------|--------------|--------------|--------|----------|----------|----------|------|---------|------------|-------|--------|------|--------|--|-----|-------|----|-------|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|----|---------|------------|--|------|-------|-------------|--------------|-------|-------|--------|----------|------|-------|------|-------|--------|------|--------|--|-----|-------|----|-------|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|-----|----|---------|------------|
| ANT | BLE CH39 2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032006-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz VBW:2.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.74</td> <td>54.42</td> <td>-19.58</td> <td>74.00</td> <td>47.83</td> <td>31.80</td> <td>8.22</td> <td>33.43</td> <td>107</td> <td>62</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | | MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | 1 | 2483.74 | 54.42 | -19.58 | 74.00 | 47.83 | 31.80 | 8.22 | 33.43 | 107 | 62 | Peak | HORIZONTAL | <p>Site : 032006-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz VBW:2.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/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>100.66</td> <td>26.66</td> <td>74.00</td> <td>94.07</td> <td>31.80</td> <td>8.22</td> <td>33.43</td> <td>107</td> <td>62</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | | MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | 1 | 2480.00 | 100.66 | 26.66 | 74.00 | 94.07 | 31.80 | 8.22 | 33.43 | 107 | 62 | Peak | HORIZONTAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.74 | 54.42 | -19.58 | 74.00 | 47.83 | 31.80 | 8.22 | 33.43 | 107 | 62 | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 100.66 | 26.66 | 74.00 | 94.07 | 31.80 | 8.22 | 33.43 | 107 | 62 | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 032006-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz VBW:2.700kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/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>47.05</td> <td>-6.95</td> <td>54.00</td> <td>40.46</td> <td>31.80</td> <td>8.22</td> <td>33.43</td> <td>107</td> <td>62</td> <td>Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | | MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | 1 | 2483.50 | 47.05 | -6.95 | 54.00 | 40.46 | 31.80 | 8.22 | 33.43 | 107 | 62 | Average | HORIZONTAL | <p>Site : 032006-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz VBW:2.700kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/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>99.95</td> <td>45.95</td> <td>54.00</td> <td>93.36</td> <td>31.80</td> <td>8.22</td> <td>33.43</td> <td>107</td> <td>62</td> <td>Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level | Factor | Loss | Factor | | MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | 1 | 2480.00 | 99.95 | 45.95 | 54.00 | 93.36 | 31.80 | 8.22 | 33.43 | 107 | 62 | Average | HORIZONTAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 47.05 | -6.95 | 54.00 | 40.46 | 31.80 | 8.22 | 33.43 | 107 | 62 | Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 99.95 | 45.95 | 54.00 | 93.36 | 31.80 | 8.22 | 33.43 | 107 | 62 | Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------------|--------------|--------------|--------|----------|----------|----------|------|---------|----------|--------------|-------------|--|--|--|-----|--------|----|--------|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|----------|---|------|-------|-------------|--------------|-------|-------|--------|----------|------|-------|------|--------------|-------------|--|--|--|-----|--------|----|--------|----|----|----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|
| ANT | BLE CH39 2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032004-KS Condition : FCC PART 15C 3e 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2491.54</td> <td>55.60</td> <td>-18.40</td> <td>74.00</td> <td>48.05</td> <td>32.73</td> <td>8.24</td> <td>33.42</td> <td>353</td> <td>100</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Poi/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | 1 | 2491.54 | 55.60 | -18.40 | 74.00 | 48.05 | 32.73 | 8.24 | 33.42 | 353 | 100 | Peak | VERTICAL | <p>Site : 032004-KS Condition : FCC PART 15C 3e 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/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>98.70</td> <td>24.70</td> <td>74.00</td> <td>91.05</td> <td>32.86</td> <td>8.22</td> <td>33.43</td> <td>353</td> <td>100</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Poi/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | 1 | 2480.00 | 98.70 | 24.70 | 74.00 | 91.05 | 32.86 | 8.22 | 33.43 | 353 | 100 | Peak | VERTICAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2491.54 | 55.60 | -18.40 | 74.00 | 48.05 | 32.73 | 8.24 | 33.42 | 353 | 100 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 98.70 | 24.70 | 74.00 | 91.05 | 32.86 | 8.22 | 33.43 | 353 | 100 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 032004-KS Condition : FCC PART 15C (AVG) 3e 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:2.700kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/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>47.17</td> <td>-6.83</td> <td>54.00</td> <td>39.57</td> <td>32.86</td> <td>8.22</td> <td>33.43</td> <td>353</td> <td>100</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Poi/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | 1 | 2483.50 | 47.17 | -6.83 | 54.00 | 39.57 | 32.86 | 8.22 | 33.43 | 353 | 100 | Average | VERTICAL | <p>Site : 032004-KS Condition : FCC PART 15C (AVG) 3e 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:2.700kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/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>97.94</td> <td>43.94</td> <td>54.00</td> <td>90.29</td> <td>32.86</td> <td>8.22</td> <td>33.43</td> <td>353</td> <td>100</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Poi/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | 1 | 2480.00 | 97.94 | 43.94 | 54.00 | 90.29 | 32.86 | 8.22 | 33.43 | 353 | 100 | Average | VERTICAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 47.17 | -6.83 | 54.00 | 39.57 | 32.86 | 8.22 | 33.43 | 353 | 100 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 97.94 | 43.94 | 54.00 | 90.29 | 32.86 | 8.22 | 33.43 | 353 | 100 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz
BLE (Harmonic @ 3m)

| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|----------|-------|-------------|-------------|-------------|--------|--------|----------|------------|----------|----------|-----|-------|----|-------|----|----|----|----|-----|--|--|-----------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|--|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|-------|----|-------|----|----|----|----|-----|--|--|-----------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|
| ANT | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Avg. | <p>Site : 0320H-K1 Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RFR: 1000.000MHz 100.0000 0000Hz DBT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 4806.00</td> <td>44.38</td> <td>-29.62</td> <td>74.00</td> <td>59.08</td> <td>34.96</td> <td>11.51</td> <td>61.17</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | | | 1 4806.00 | 44.38 | -29.62 | 74.00 | 59.08 | 34.96 | 11.51 | 61.17 | 300 | 0 Peak | HORIZONTAL | <p>Site : 0320H-K1 Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RFR: 1000.000MHz 100.0000 0000Hz DBT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 4806.00</td> <td>44.43</td> <td>-29.67</td> <td>74.00</td> <td>59.35</td> <td>34.84</td> <td>11.51</td> <td>61.17</td> <td>300</td> <td>360 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | | | 1 4806.00 | 44.43 | -29.67 | 74.00 | 59.35 | 34.84 | 11.51 | 61.17 | 300 | 360 Peak | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4806.00 | 44.38 | -29.62 | 74.00 | 59.08 | 34.96 | 11.51 | 61.17 | 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4806.00 | 44.43 | -29.67 | 74.00 | 59.35 | 34.84 | 11.51 | 61.17 | 300 | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|----------|--------|-------------|-------------|-------------|--------|--------|--------|----------|------------|----------|-----|--------|----|--------|------|------|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|---|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|--------|----|--------|------|------|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|
| ANT | BLE CH19 2440MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Avg. | <p>Site : 03D906-KS Condition : 150 PWR1 15C 3m 3117 SW 10957 HORIZONTAL SMA 1000 100kHz VSW 1000 0050Hz SRT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4878.00</td> <td>43.86</td> <td>-30.14</td> <td>74.00</td> <td>58.33</td> <td>35.04</td> <td>11.60</td> <td>61.11</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>7320.00</td> <td>43.13</td> <td>-30.87</td> <td>74.00</td> <td>57.65</td> <td>36.86</td> <td>14.69</td> <td>61.07</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | | | 1 | 4878.00 | 43.86 | -30.14 | 74.00 | 58.33 | 35.04 | 11.60 | 61.11 | 300 | 0 Peak | HORIZONTAL | 2 | 7320.00 | 43.13 | -30.87 | 74.00 | 57.65 | 36.86 | 14.69 | 61.07 | 300 | 0 Peak | HORIZONTAL | <p>Site : 03D906-KS Condition : 150 PWR1 15C 3m 3117 SW 10957 VERTICAL SMA 1000 100kHz VSW 1000 0050Hz SRT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4878.00</td> <td>44.10</td> <td>-29.90</td> <td>74.00</td> <td>58.78</td> <td>34.83</td> <td>11.60</td> <td>61.11</td> <td>300</td> <td>300 Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>7320.00</td> <td>42.62</td> <td>-31.38</td> <td>74.00</td> <td>57.00</td> <td>36.40</td> <td>14.69</td> <td>61.07</td> <td>300</td> <td>300 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | | | 1 | 4878.00 | 44.10 | -29.90 | 74.00 | 58.78 | 34.83 | 11.60 | 61.11 | 300 | 300 Peak | VERTICAL | 2 | 7320.00 | 42.62 | -31.38 | 74.00 | 57.00 | 36.40 | 14.69 | 61.07 | 300 | 300 Peak | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4878.00 | 43.86 | -30.14 | 74.00 | 58.33 | 35.04 | 11.60 | 61.11 | 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7320.00 | 43.13 | -30.87 | 74.00 | 57.65 | 36.86 | 14.69 | 61.07 | 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4878.00 | 44.10 | -29.90 | 74.00 | 58.78 | 34.83 | 11.60 | 61.11 | 300 | 300 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7320.00 | 42.62 | -31.38 | 74.00 | 57.00 | 36.40 | 14.69 | 61.07 | 300 | 300 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|-------------|--------|-------------|--------|--------|--------|----------|--------|----------|------------|------|-------|--------|------|--------|----|----|-----|-----|--------|----|--------|----|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|--|------|-------|-------------|-------|--------|-------|-------|--------|----------|-------|------|-------|--------|------|--------|----|----|-----|-----|--------|----|--------|----|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|
| ANT | BLE CH39 2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032026-KS Condition : FCC PART 15C 3m 3117 ON 10957 HORIZONTAL SMP 1000 00000V VSW 1000 00000L SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>dB</th> <th>on</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4962.00</td> <td>47.44</td> <td>-26.56</td> <td>74.00</td> <td>61.63</td> <td>35.14</td> <td>11.71</td> <td>61.04</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>7440.00</td> <td>43.22</td> <td>-30.78</td> <td>74.00</td> <td>52.50</td> <td>36.89</td> <td>14.88</td> <td>61.05</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Level | Line | Level | Factor | Loss | Factor | dB | on | deg | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | on | deg | 1 | 4962.00 | 47.44 | -26.56 | 74.00 | 61.63 | 35.14 | 11.71 | 61.04 | 300 | 0 Peak | HORIZONTAL | 2 | 7440.00 | 43.22 | -30.78 | 74.00 | 52.50 | 36.89 | 14.88 | 61.05 | 300 | 0 Peak | HORIZONTAL | <p>Site : 032026-KS Condition : FCC PART 15C 3m 3117 ON 10957 VERTICAL SMP 1000 00000V VSW 1000 00000L SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>dB</th> <th>on</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4962.00</td> <td>44.20</td> <td>-29.70</td> <td>74.00</td> <td>58.82</td> <td>34.81</td> <td>11.71</td> <td>61.04</td> <td>300</td> <td>360 Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>7440.00</td> <td>42.85</td> <td>-31.15</td> <td>74.00</td> <td>52.95</td> <td>35.47</td> <td>14.88</td> <td>61.05</td> <td>300</td> <td>360 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Level | Line | Level | Factor | Loss | Factor | dB | on | deg | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | on | deg | 1 | 4962.00 | 44.20 | -29.70 | 74.00 | 58.82 | 34.81 | 11.71 | 61.04 | 300 | 360 Peak | VERTICAL | 2 | 7440.00 | 42.85 | -31.15 | 74.00 | 52.95 | 35.47 | 14.88 | 61.05 | 300 | 360 Peak | VERTICAL |
| Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level | Line | Level | Factor | Loss | Factor | dB | on | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | on | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4962.00 | 47.44 | -26.56 | 74.00 | 61.63 | 35.14 | 11.71 | 61.04 | 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7440.00 | 43.22 | -30.78 | 74.00 | 52.50 | 36.89 | 14.88 | 61.05 | 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level | Line | Level | Factor | Loss | Factor | dB | on | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | on | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4962.00 | 44.20 | -29.70 | 74.00 | 58.82 | 34.81 | 11.71 | 61.04 | 300 | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7440.00 | 42.85 | -31.15 | 74.00 | 52.95 | 35.47 | 14.88 | 61.05 | 300 | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Emission below 1GHz
2.4GHz BLE (LF)

| BLE | 2.4GHz 2400~2483.5MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|-------------|-------------|-------------|--------|--------|--------|----------|----------|------------|------------|------|-------|--------|------|--------|----|----|-----|-------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|-------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|--------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|--------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|--------|-------|--------|-------|-------|-------|------|-------|-----|----|------|------------|--------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|--|------|-------|-------------|-------|--------|-------|-------|--------|----------|-------|------|-------|--------|------|--------|----|----|-----|-------|-------|--------|-------|-------|-------|------|-------|-----|----|------|----------|-------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|--------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|--------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|--------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|--------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|
| ANT | BLE LF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QP / Peak | <p>Site : 03DH0-K3 Condition : FCC PART 15C 3m QBL6111D SN7182 HORIZONTAL R98 100.000MHz V98 300.000MHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>dB</th> <th>dB</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>30.00</td> <td>20.97</td> <td>-19.03</td> <td>40.00</td> <td>27.79</td> <td>25.30</td> <td>0.58</td> <td>32.70</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>46.93</td> <td>18.88</td> <td>-24.43</td> <td>43.50</td> <td>34.39</td> <td>15.68</td> <td>1.59</td> <td>32.78</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>460.68</td> <td>22.18</td> <td>-23.22</td> <td>46.00</td> <td>28.70</td> <td>23.31</td> <td>4.49</td> <td>32.72</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>695.07</td> <td>26.30</td> <td>-18.88</td> <td>46.00</td> <td>28.81</td> <td>24.70</td> <td>3.78</td> <td>32.78</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>831.22</td> <td>28.33</td> <td>-17.29</td> <td>46.00</td> <td>27.75</td> <td>28.34</td> <td>4.77</td> <td>32.56</td> <td>203</td> <td>36</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>976.63</td> <td>27.67</td> <td>-26.33</td> <td>54.00</td> <td>24.47</td> <td>30.28</td> <td>5.10</td> <td>32.18</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Level | Line | Level | Factor | Loss | Factor | dB | dB | deg | 30.00 | 20.97 | -19.03 | 40.00 | 27.79 | 25.30 | 0.58 | 32.70 | --- | Peak | HORIZONTAL | 46.93 | 18.88 | -24.43 | 43.50 | 34.39 | 15.68 | 1.59 | 32.78 | --- | Peak | HORIZONTAL | 460.68 | 22.18 | -23.22 | 46.00 | 28.70 | 23.31 | 4.49 | 32.72 | --- | Peak | HORIZONTAL | 695.07 | 26.30 | -18.88 | 46.00 | 28.81 | 24.70 | 3.78 | 32.78 | --- | Peak | HORIZONTAL | 831.22 | 28.33 | -17.29 | 46.00 | 27.75 | 28.34 | 4.77 | 32.56 | 203 | 36 | Peak | HORIZONTAL | 976.63 | 27.67 | -26.33 | 54.00 | 24.47 | 30.28 | 5.10 | 32.18 | --- | Peak | HORIZONTAL | <p>Site : 03DH0-K3 Condition : FCC PART 15C 3m QBL6111D SN7182 VERTICAL R98 100.000MHz V98 300.000MHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>dB</th> <th>dB</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>30.97</td> <td>21.59</td> <td>-18.41</td> <td>40.00</td> <td>29.66</td> <td>24.04</td> <td>0.59</td> <td>32.70</td> <td>108</td> <td>98</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>46.93</td> <td>19.00</td> <td>-24.48</td> <td>43.50</td> <td>33.74</td> <td>16.47</td> <td>1.59</td> <td>32.78</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>460.70</td> <td>22.75</td> <td>-23.27</td> <td>46.00</td> <td>29.37</td> <td>27.46</td> <td>3.42</td> <td>32.12</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>697.88</td> <td>26.07</td> <td>-19.03</td> <td>46.00</td> <td>28.86</td> <td>24.78</td> <td>3.84</td> <td>32.58</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>855.47</td> <td>27.54</td> <td>-18.44</td> <td>46.00</td> <td>28.95</td> <td>26.43</td> <td>4.77</td> <td>32.59</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>955.08</td> <td>27.22</td> <td>-26.78</td> <td>54.00</td> <td>27.35</td> <td>27.09</td> <td>0.06</td> <td>32.24</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Level | Line | Level | Factor | Loss | Factor | dB | dB | deg | 30.97 | 21.59 | -18.41 | 40.00 | 29.66 | 24.04 | 0.59 | 32.70 | 108 | 98 | Peak | VERTICAL | 46.93 | 19.00 | -24.48 | 43.50 | 33.74 | 16.47 | 1.59 | 32.78 | --- | Peak | VERTICAL | 460.70 | 22.75 | -23.27 | 46.00 | 29.37 | 27.46 | 3.42 | 32.12 | --- | Peak | VERTICAL | 697.88 | 26.07 | -19.03 | 46.00 | 28.86 | 24.78 | 3.84 | 32.58 | --- | Peak | VERTICAL | 855.47 | 27.54 | -18.44 | 46.00 | 28.95 | 26.43 | 4.77 | 32.59 | --- | Peak | VERTICAL | 955.08 | 27.22 | -26.78 | 54.00 | 27.35 | 27.09 | 0.06 | 32.24 | --- | Peak | VERTICAL |
| | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level | Line | Level | Factor | Loss | Factor | dB | dB | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.00 | 20.97 | -19.03 | 40.00 | 27.79 | 25.30 | 0.58 | 32.70 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46.93 | 18.88 | -24.43 | 43.50 | 34.39 | 15.68 | 1.59 | 32.78 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 460.68 | 22.18 | -23.22 | 46.00 | 28.70 | 23.31 | 4.49 | 32.72 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 695.07 | 26.30 | -18.88 | 46.00 | 28.81 | 24.70 | 3.78 | 32.78 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 831.22 | 28.33 | -17.29 | 46.00 | 27.75 | 28.34 | 4.77 | 32.56 | 203 | 36 | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 976.63 | 27.67 | -26.33 | 54.00 | 24.47 | 30.28 | 5.10 | 32.18 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level | Line | Level | Factor | Loss | Factor | dB | dB | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.97 | 21.59 | -18.41 | 40.00 | 29.66 | 24.04 | 0.59 | 32.70 | 108 | 98 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46.93 | 19.00 | -24.48 | 43.50 | 33.74 | 16.47 | 1.59 | 32.78 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 460.70 | 22.75 | -23.27 | 46.00 | 29.37 | 27.46 | 3.42 | 32.12 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 697.88 | 26.07 | -19.03 | 46.00 | 28.86 | 24.78 | 3.84 | 32.58 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.47 | 27.54 | -18.44 | 46.00 | 28.95 | 26.43 | 4.77 | 32.59 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 955.08 | 27.22 | -26.78 | 54.00 | 27.35 | 27.09 | 0.06 | 32.24 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Bluetooth LE 2Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|--------------|--------------|--------------|--------|----------|----------|----------|------------|------------|------|--------------|-------------|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------------|------------|---|------|-------|-------------|--------------|-------|-------|--------|----------|------|-------|------|--------------|-------------|----|-----|--|---|---------|--------|-------|-------|-------|-------|------|-------|-----|------------|------------|
| ANT | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032004-K3 Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW 1000.000kHz VBW 500.000kHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>cn</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2366.03</td> <td>54.14</td> <td>-19.86</td> <td>74.00</td> <td>47.47</td> <td>32.10</td> <td>8.02</td> <td>33.45</td> <td>146</td> <td>67 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | cn | deg | | 1 | 2366.03 | 54.14 | -19.86 | 74.00 | 47.47 | 32.10 | 8.02 | 33.45 | 146 | 67 Peak | HORIZONTAL | <p>Site : 032004-K5 Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW 1000.000kHz VBW 500.000kHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>cn</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>101.37</td> <td>27.37</td> <td>74.00</td> <td>94.52</td> <td>32.20</td> <td>8.09</td> <td>33.44</td> <td>146</td> <td>67 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | cn | deg | | 1 | 2402.00 | 101.37 | 27.37 | 74.00 | 94.52 | 32.20 | 8.09 | 33.44 | 146 | 67 Peak | HORIZONTAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2366.03 | 54.14 | -19.86 | 74.00 | 47.47 | 32.10 | 8.02 | 33.45 | 146 | 67 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 101.37 | 27.37 | 74.00 | 94.52 | 32.20 | 8.09 | 33.44 | 146 | 67 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 032004-K5 Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL RBW 1000.000kHz VBW 5.100kHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>cn</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.30</td> <td>43.88</td> <td>-10.12</td> <td>54.00</td> <td>37.09</td> <td>32.15</td> <td>8.09</td> <td>33.45</td> <td>146</td> <td>67 Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | cn | deg | | 1 | 2389.30 | 43.88 | -10.12 | 54.00 | 37.09 | 32.15 | 8.09 | 33.45 | 146 | 67 Average | HORIZONTAL | <p>Site : 032004-K5 Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL RBW 1000.000kHz VBW 5.100kHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>cn</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>99.78</td> <td>45.78</td> <td>54.00</td> <td>92.93</td> <td>32.20</td> <td>8.09</td> <td>33.44</td> <td>146</td> <td>67 Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | cn | deg | | 1 | 2402.00 | 99.78 | 45.78 | 54.00 | 92.93 | 32.20 | 8.09 | 33.44 | 146 | 67 Average | HORIZONTAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2389.30 | 43.88 | -10.12 | 54.00 | 37.09 | 32.15 | 8.09 | 33.45 | 146 | 67 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 99.78 | 45.78 | 54.00 | 92.93 | 32.20 | 8.09 | 33.44 | 146 | 67 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------------|--------------|--------------|--------|----------|----------|----------|------|---------|----------|--------------|-------------|--|--|--|-----|--------|----|--------|--------|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|----------|---|------|-------|-------------|--------------|-------|-------|--------|----------|------|-------|------|--------------|-------------|--|--|--|-----|--------|----|--------|--------|----|----|-----|-----|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|
| ANT | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032040-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:5000.000kHz SFT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2386.83</td> <td>55.72</td> <td>-18.28</td> <td>74.00</td> <td>47.58</td> <td>33.50</td> <td>8.09</td> <td>33.45</td> <td>382</td> <td>111</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | 1 | 2386.83 | 55.72 | -18.28 | 74.00 | 47.58 | 33.50 | 8.09 | 33.45 | 382 | 111 | Peak | VERTICAL | <p>Site : 032040-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:5000.000kHz SFT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 *</td> <td>2402.00</td> <td>99.34</td> <td>25.34</td> <td>74.00</td> <td>91.19</td> <td>33.50</td> <td>8.09</td> <td>33.44</td> <td>382</td> <td>111</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | 1 * | 2402.00 | 99.34 | 25.34 | 74.00 | 91.19 | 33.50 | 8.09 | 33.44 | 382 | 111 | Peak | VERTICAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2386.83 | 55.72 | -18.28 | 74.00 | 47.58 | 33.50 | 8.09 | 33.45 | 382 | 111 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 2402.00 | 99.34 | 25.34 | 74.00 | 91.19 | 33.50 | 8.09 | 33.44 | 382 | 111 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg | <p>Site : 032040-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:5.100kHz SFT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2388.26</td> <td>45.14</td> <td>-8.86</td> <td>54.00</td> <td>37.00</td> <td>33.50</td> <td>8.09</td> <td>33.45</td> <td>382</td> <td>111</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | 1 | 2388.26 | 45.14 | -8.86 | 54.00 | 37.00 | 33.50 | 8.09 | 33.45 | 382 | 111 | Average | VERTICAL | <p>Site : 032040-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:5.100kHz SFT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 *</td> <td>2402.00</td> <td>97.72</td> <td>43.72</td> <td>54.00</td> <td>89.57</td> <td>33.50</td> <td>8.09</td> <td>33.44</td> <td>382</td> <td>111</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | 1 * | 2402.00 | 97.72 | 43.72 | 54.00 | 89.57 | 33.50 | 8.09 | 33.44 | 382 | 111 | Average | VERTICAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2388.26 | 45.14 | -8.86 | 54.00 | 37.00 | 33.50 | 8.09 | 33.45 | 382 | 111 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 2402.00 | 97.72 | 43.72 | 54.00 | 89.57 | 33.50 | 8.09 | 33.44 | 382 | 111 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|--------------|-------------|--------------|--------|----------|--------|----------|------|------------|------------|------|-------|--------|------|--------|----|-----|-----|-------|----|-------|-------|----|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------------|------------|--|------------|-------------|--------------|-------|-------|--------|----------|------|-------|-------|------|-------|--------|------|--------|----|-----|-----|-------|----|-------|-------|----|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|-----|------------|------------|
| ANT | BLE CH19 2440MHz - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site Condition : 032004-KS FCC PART 15C 3m 3117 SN 79957 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cn</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBW/m</th> <th>dB</th> <th>dBW/m</th> <th>dBW/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cn</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2381.76</td> <td>55.10</td> <td>-18.90</td> <td>74.00</td> <td>48.39</td> <td>32.10</td> <td>8.00</td> <td>33.45</td> <td>169</td> <td>64 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | cn | deg | MHz | dBW/m | dB | dBW/m | dBW/m | dB | dB | dB | cn | deg | 1 | 2381.76 | 55.10 | -18.90 | 74.00 | 48.39 | 32.10 | 8.00 | 33.45 | 169 | 64 Peak | HORIZONTAL | <p>Site Condition : 032004-KS FCC PART 15C 3m 3117 SN 79957 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cn</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBW/m</th> <th>dB</th> <th>dBW/m</th> <th>dBW/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cn</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>101.80</td> <td>27.80</td> <td>74.00</td> <td>95.07</td> <td>32.00</td> <td>8.16</td> <td>33.43</td> <td>169</td> <td>64 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | cn | deg | MHz | dBW/m | dB | dBW/m | dBW/m | dB | dB | dB | cn | deg | 1 | 2440.00 | 101.80 | 27.80 | 74.00 | 95.07 | 32.00 | 8.16 | 33.43 | 169 | 64 Peak | HORIZONTAL |
| Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBW/m | dB | dBW/m | dBW/m | dB | dB | dB | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2381.76 | 55.10 | -18.90 | 74.00 | 48.39 | 32.10 | 8.00 | 33.45 | 169 | 64 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBW/m | dB | dBW/m | dBW/m | dB | dB | dB | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 101.80 | 27.80 | 74.00 | 95.07 | 32.00 | 8.16 | 33.43 | 169 | 64 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site Condition : 032004-KS FCC PART 15C (AVG) 3m 3117 SN 79957 HORIZONTAL RBW:1000.000kHz VBW:5.100kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cn</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBW/m</th> <th>dB</th> <th>dBW/m</th> <th>dBW/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cn</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2383.93</td> <td>44.07</td> <td>-9.93</td> <td>54.00</td> <td>37.31</td> <td>32.10</td> <td>8.00</td> <td>33.45</td> <td>169</td> <td>64 Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | cn | deg | MHz | dBW/m | dB | dBW/m | dBW/m | dB | dB | dB | cn | deg | 1 | 2383.93 | 44.07 | -9.93 | 54.00 | 37.31 | 32.10 | 8.00 | 33.45 | 169 | 64 Average | HORIZONTAL | <p>Site Condition : 032004-KS FCC PART 15C (AVG) 3m 3117 SN 79957 HORIZONTAL RBW:1000.000kHz VBW:5.100kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cn</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBW/m</th> <th>dB</th> <th>dBW/m</th> <th>dBW/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cn</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>100.40</td> <td>46.40</td> <td>54.00</td> <td>93.67</td> <td>32.00</td> <td>8.16</td> <td>33.43</td> <td>169</td> <td>64 Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | cn | deg | MHz | dBW/m | dB | dBW/m | dBW/m | dB | dB | dB | cn | deg | 1 | 2440.00 | 100.40 | 46.40 | 54.00 | 93.67 | 32.00 | 8.16 | 33.43 | 169 | 64 Average | HORIZONTAL |
| Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBW/m | dB | dBW/m | dBW/m | dB | dB | dB | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2383.93 | 44.07 | -9.93 | 54.00 | 37.31 | 32.10 | 8.00 | 33.45 | 169 | 64 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBW/m | dB | dBW/m | dBW/m | dB | dB | dB | cn | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 100.40 | 46.40 | 54.00 | 93.67 | 32.00 | 8.16 | 33.43 | 169 | 64 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------|-------------|-------|-------------|-------|--------|--------|------------|------------|----------|-----|--------|----|--------|------|------|----|----|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------------|------------|---|
| ANT | BLE CH19 2440MHz - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 030604-KS Condition : FCC PART 15C 3m 3117.5M 75957 HORIZONTAL RHM-1000.000MHz VSW-20.00.000MHz SRT-Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</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>2489.74</td> <td>53.94</td> <td>-20.06</td> <td>74.00</td> <td>47.42</td> <td>31.70</td> <td>8.24</td> <td>33.42</td> <td>169</td> <td>64 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Poi/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | | 1 | 2489.74 | 53.94 | -20.06 | 74.00 | 47.42 | 31.70 | 8.24 | 33.42 | 169 | 64 Peak | HORIZONTAL | - |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2489.74 | 53.94 | -20.06 | 74.00 | 47.42 | 31.70 | 8.24 | 33.42 | 169 | 64 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 030604-KS Condition : FCC PART 15C (AVG) 3m 3117.5M 75957 HORIZONTAL RHM-1000.000MHz VSW-20.00.000MHz SRT-Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</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>2483.98</td> <td>43.92</td> <td>-10.08</td> <td>54.00</td> <td>37.33</td> <td>31.80</td> <td>8.22</td> <td>33.43</td> <td>169</td> <td>64 Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Poi/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | | 1 | 2483.98 | 43.92 | -10.08 | 54.00 | 37.33 | 31.80 | 8.22 | 33.43 | 169 | 64 Average | HORIZONTAL | - |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.98 | 43.92 | -10.08 | 54.00 | 37.33 | 31.80 | 8.22 | 33.43 | 169 | 64 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------------|--------------|--------------|--------|----------|----------|----------|------|---------|----------|--------------|-------------|--|--|--|-----|-------|----|-------|-----|------|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|----------|---|------|-------|-------------|--------------|-------|-------|--------|----------|------|-------|------|--------------|-------------|--|--|--|-----|-------|----|-------|-----|------|----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|
| ANT | BLE CH19 2440MHz - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032040-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Sweep 1000 000000- VSW 0.000000 SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB/m</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2381.89</td> <td>55.48</td> <td>-18.92</td> <td>74.00</td> <td>47.58</td> <td>33.29</td> <td>8.06</td> <td>33.45</td> <td>369</td> <td>103</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBV/m | dB | dBV/m | dBV | dB/m | cm | deg | 1 | 2381.89 | 55.48 | -18.92 | 74.00 | 47.58 | 33.29 | 8.06 | 33.45 | 369 | 103 | Peak | VERTICAL | <p>Site : 032040-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Sweep 1000 000000- VSW 0.000000 SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB/m</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>98.66</td> <td>24.66</td> <td>74.00</td> <td>90.82</td> <td>33.11</td> <td>8.16</td> <td>33.43</td> <td>369</td> <td>103</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBV/m | dB | dBV/m | dBV | dB/m | cm | deg | 1 | 2440.00 | 98.66 | 24.66 | 74.00 | 90.82 | 33.11 | 8.16 | 33.43 | 369 | 103 | Peak | VERTICAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB/m | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2381.89 | 55.48 | -18.92 | 74.00 | 47.58 | 33.29 | 8.06 | 33.45 | 369 | 103 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB/m | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 98.66 | 24.66 | 74.00 | 90.82 | 33.11 | 8.16 | 33.43 | 369 | 103 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 032040-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Sweep 1000 000000- VSW 0.100000 SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB/m</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.69</td> <td>45.45</td> <td>-8.55</td> <td>54.00</td> <td>37.31</td> <td>33.50</td> <td>8.09</td> <td>33.45</td> <td>369</td> <td>103</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBV/m | dB | dBV/m | dBV | dB/m | cm | deg | 1 | 2389.69 | 45.45 | -8.55 | 54.00 | 37.31 | 33.50 | 8.09 | 33.45 | 369 | 103 | Average | VERTICAL | <p>Site : 032040-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Sweep 1000 000000- VSW 0.100000 SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB/m</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>97.23</td> <td>43.23</td> <td>54.00</td> <td>89.39</td> <td>33.11</td> <td>8.16</td> <td>33.43</td> <td>369</td> <td>103</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBV/m | dB | dBV/m | dBV | dB/m | cm | deg | 1 | 2440.00 | 97.23 | 43.23 | 54.00 | 89.39 | 33.11 | 8.16 | 33.43 | 369 | 103 | Average | VERTICAL |
| | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB/m | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2389.69 | 45.45 | -8.55 | 54.00 | 37.31 | 33.50 | 8.09 | 33.45 | 369 | 103 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB/m | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 97.23 | 43.23 | 54.00 | 89.39 | 33.11 | 8.16 | 33.43 | 369 | 103 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------------|-------------|--------------|--------|----------|--------|----------|------|---------|----------|-------|------|--------|--------|--|-----|-------|----|-------|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|----------|---|
| ANT | BLE CH19 2440MHz - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 03060-K3 Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW:1000.000kHz YBW:2000.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2499.58</td> <td>55.12</td> <td>-18.88</td> <td>74.00</td> <td>47.57</td> <td>32.73</td> <td>8.24</td> <td>33.42</td> <td>369</td> <td>103</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Level | Level | Loss | Factor | Factor | | MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | 1 | 2499.58 | 55.12 | -18.88 | 74.00 | 47.57 | 32.73 | 8.24 | 33.42 | 369 | 103 | Peak | VERTICAL | - |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Level | Level | Loss | Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2499.58 | 55.12 | -18.88 | 74.00 | 47.57 | 32.73 | 8.24 | 33.42 | 369 | 103 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 03060-K3 Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RBW:1000.000kHz YBW:5.100kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Level</th> <th>Level</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2486.02</td> <td>44.96</td> <td>-9.04</td> <td>54.00</td> <td>37.30</td> <td>32.86</td> <td>8.22</td> <td>33.42</td> <td>369</td> <td>103</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Level | Level | Loss | Factor | Factor | | MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | 1 | 2486.02 | 44.96 | -9.04 | 54.00 | 37.30 | 32.86 | 8.22 | 33.42 | 369 | 103 | Average | VERTICAL | - |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Level | Level | Loss | Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2486.02 | 44.96 | -9.04 | 54.00 | 37.30 | 32.86 | 8.22 | 33.42 | 369 | 103 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|--------------|-------------|--------------|--------|----------|--------|----------|------|---------|------------|--------------|-------------|--|--|--|-----|--------|----|--------|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|------------|--|------|-------|-------------|--------------|-------|-------|--------|----------|------|-------|------|--------------|-------------|--|--|--|-----|--------|----|--------|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|-----|-----|---------|------------|
| ANT | BLE CH39 2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032040-KS Condition : FCC PART 15C 3m 3117 SN 79957 HORIZONTAL R98 1000 0000Hz V98 1000 0000Hz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/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>56.20</td> <td>-17.80</td> <td>74.00</td> <td>49.61</td> <td>31.80</td> <td>8.22</td> <td>33.43</td> <td>157</td> <td>236</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | 1 | 2483.50 | 56.20 | -17.80 | 74.00 | 49.61 | 31.80 | 8.22 | 33.43 | 157 | 236 | Peak | HORIZONTAL | <p>Site : 032040-KS Condition : FCC PART 15C 3m 3117 SN 79957 HORIZONTAL R98 1000 0000Hz V98 1000 0000Hz SRT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/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>100.83</td> <td>26.83</td> <td>74.00</td> <td>94.24</td> <td>31.80</td> <td>8.22</td> <td>33.43</td> <td>157</td> <td>236</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor | | | | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | 1 | 2480.00 | 100.83 | 26.83 | 74.00 | 94.24 | 31.80 | 8.22 | 33.43 | 157 | 236 | Peak | HORIZONTAL |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 56.20 | -17.80 | 74.00 | 49.61 | 31.80 | 8.22 | 33.43 | 157 | 236 | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 100.83 | 26.83 | 74.00 | 94.24 | 31.80 | 8.22 | 33.43 | 157 | 236 | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 50.29 | -3.71 | 54.00 | 43.70 | 31.80 | 8.22 | 33.43 | 157 | 236 | Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Level Factor | Loss Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 99.09 | 45.09 | 54.00 | 93.00 | 31.80 | 8.22 | 33.43 | 157 | 236 | Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|--------|-------------|-------------|-------------|--------|--------|--------|-------------|----------|----------|-----|-------|----|-------|-----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|----------|--|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|-------|----|-------|-----|----|----|----|-----|--|--|-----|---------|-------|-------|-------|-------|-------|------|-------|-----|-------------|----------|
| ANT | BLE CH39 2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 032000-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW 1000.000kHz VBW 5000.000kHz SMT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.56</td> <td>56.40</td> <td>-17.60</td> <td>74.00</td> <td>48.75</td> <td>32.86</td> <td>8.22</td> <td>33.43</td> <td>353</td> <td>103 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | 1 | 2483.56 | 56.40 | -17.60 | 74.00 | 48.75 | 32.86 | 8.22 | 33.43 | 353 | 103 Peak | VERTICAL | <p>Site : 032000-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW 1000.000kHz VBW 5000.000kHz SMT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 *</td> <td>2480.00</td> <td>98.26</td> <td>24.26</td> <td>74.00</td> <td>90.61</td> <td>32.86</td> <td>8.22</td> <td>33.43</td> <td>353</td> <td>103 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | 1 * | 2480.00 | 98.26 | 24.26 | 74.00 | 90.61 | 32.86 | 8.22 | 33.43 | 353 | 103 Peak | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.56 | 56.40 | -17.60 | 74.00 | 48.75 | 32.86 | 8.22 | 33.43 | 353 | 103 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 2480.00 | 98.26 | 24.26 | 74.00 | 90.61 | 32.86 | 8.22 | 33.43 | 353 | 103 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <p>Site : 032000-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RBW 1000.000kHz VBW 5.100kHz SMT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.50</td> <td>48.49</td> <td>-5.51</td> <td>54.00</td> <td>40.84</td> <td>32.86</td> <td>8.22</td> <td>33.43</td> <td>353</td> <td>103 Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | 1 | 2483.50 | 48.49 | -5.51 | 54.00 | 40.84 | 32.86 | 8.22 | 33.43 | 353 | 103 Average | VERTICAL | <p>Site : 032000-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL RBW 1000.000kHz VBW 5.100kHz SMT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBV/m</th> <th>dB</th> <th>dBV/m</th> <th>dBV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 *</td> <td>2480.00</td> <td>96.80</td> <td>42.80</td> <td>54.00</td> <td>89.15</td> <td>32.86</td> <td>8.22</td> <td>33.43</td> <td>353</td> <td>103 Average</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | 1 * | 2480.00 | 96.80 | 42.80 | 54.00 | 89.15 | 32.86 | 8.22 | 33.43 | 353 | 103 Average | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 48.49 | -5.51 | 54.00 | 40.84 | 32.86 | 8.22 | 33.43 | 353 | 103 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBV/m | dB | dBV/m | dBV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 * | 2480.00 | 96.80 | 42.80 | 54.00 | 89.15 | 32.86 | 8.22 | 33.43 | 353 | 103 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz
BLE (Harmonic @ 3m)

| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|----------|--------|-------------|-------------|-------------|--------|--------|--------|-------------------|----------|----------|-----|-----|----|-----|----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|-------------------|--|-----|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|-----|----|-----|----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|-------------------|
| ANT | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Avg. | <p>Site : 032004-K3 Condition : FCC PART 15C 3m 3117 SN 70957 HORIZONTAL RSH-1000-05000Hz-VER-3000-05000Hz-DBT-Ant</p> <table border="1"> <thead> <tr> <th>Frq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBm</th> <th>dB</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4806.00</td> <td>44.67</td> <td>-29.33</td> <td>74.00</td> <td>59.37</td> <td>34.96</td> <td>11.51</td> <td>61.17</td> <td>300</td> <td>0 Peak HORIZONTAL</td> </tr> </tbody> </table> | Frq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm | dB | dBm | dB | dB | dB | cm | deg | | | 1 | 4806.00 | 44.67 | -29.33 | 74.00 | 59.37 | 34.96 | 11.51 | 61.17 | 300 | 0 Peak HORIZONTAL | <p>Site : 032004-K3 Condition : FCC PART 15C 3m 3117 SN 70957 VERTICAL RSH-1000-05000Hz-VER-3000-05000Hz-DBT-Ant</p> <table border="1"> <thead> <tr> <th>Frq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBm</th> <th>dB</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4806.00</td> <td>45.03</td> <td>-28.97</td> <td>74.00</td> <td>59.85</td> <td>34.84</td> <td>11.51</td> <td>61.17</td> <td>300</td> <td>300 Peak VERTICAL</td> </tr> </tbody> </table> | Frq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm | dB | dBm | dB | dB | dB | cm | deg | | | 1 | 4806.00 | 45.03 | -28.97 | 74.00 | 59.85 | 34.84 | 11.51 | 61.17 | 300 | 300 Peak VERTICAL |
| | Frq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dB | dBm | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4806.00 | 44.67 | -29.33 | 74.00 | 59.37 | 34.96 | 11.51 | 61.17 | 300 | 0 Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm | dB | dBm | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4806.00 | 45.03 | -28.97 | 74.00 | 59.85 | 34.84 | 11.51 | 61.17 | 300 | 300 Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|----------|--------|-------------|-------------|-------------|--------|--------|----------|------------|----------|----------|-----|--------|----|--------|------|------|----|----|-----|--|--|-----------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|-----------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|--|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|--------|----|--------|------|------|----|----|-----|--|--|-----------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|-----------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|
| ANT | BLE CH19 2440MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Avg. | <p>Site : 032006-KS Condition : FCC PART 15C 3m 3117 ON 1995 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SFT:Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 4878.00</td> <td>44.61</td> <td>-29.29</td> <td>74.00</td> <td>99.08</td> <td>35.04</td> <td>11.60</td> <td>61.11</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2 7320.00</td> <td>43.21</td> <td>-30.79</td> <td>74.00</td> <td>52.73</td> <td>36.86</td> <td>14.69</td> <td>61.07</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | | | 1 4878.00 | 44.61 | -29.29 | 74.00 | 99.08 | 35.04 | 11.60 | 61.11 | 300 | 0 Peak | HORIZONTAL | 2 7320.00 | 43.21 | -30.79 | 74.00 | 52.73 | 36.86 | 14.69 | 61.07 | 300 | 0 Peak | HORIZONTAL | <p>Site : 032006-KS Condition : FCC PART 15C 3m 3117 ON 1995 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SFT:Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 4878.00</td> <td>44.07</td> <td>-29.98</td> <td>74.00</td> <td>58.70</td> <td>34.83</td> <td>11.60</td> <td>61.11</td> <td>300</td> <td>360 Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2 7320.00</td> <td>42.44</td> <td>-31.56</td> <td>74.00</td> <td>52.42</td> <td>36.40</td> <td>14.69</td> <td>61.07</td> <td>300</td> <td>360 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | | | 1 4878.00 | 44.07 | -29.98 | 74.00 | 58.70 | 34.83 | 11.60 | 61.11 | 300 | 360 Peak | VERTICAL | 2 7320.00 | 42.44 | -31.56 | 74.00 | 52.42 | 36.40 | 14.69 | 61.07 | 300 | 360 Peak | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4878.00 | 44.61 | -29.29 | 74.00 | 99.08 | 35.04 | 11.60 | 61.11 | 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 7320.00 | 43.21 | -30.79 | 74.00 | 52.73 | 36.86 | 14.69 | 61.07 | 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4878.00 | 44.07 | -29.98 | 74.00 | 58.70 | 34.83 | 11.60 | 61.11 | 300 | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 7320.00 | 42.44 | -31.56 | 74.00 | 52.42 | 36.40 | 14.69 | 61.07 | 300 | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------|--------|-------------|--------|--------|--------|----------|--------|----------|-------|------|-------|--------|------|--------|--------|----|----|-----|--|--------|------------|--|--|--|--|--|--|--|--|--------|------------|--|--|--|--|--|--|--|---|------|-------|-------------|-------|--------|-------|-------|--------|----------|-------|------|-------|--------|------|--------|--------|----|----|-----|--|----------|----------|--|--|--|--|--|--|--|--|----------|----------|--|--|--|--|--|--|--|
| ANT | BLE CH39 2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <p>Site : 03D906-KS Condition : FCC PART 15C 3m 3117 SW 10957 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SFT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 4962.00 46.14 -27.88 74.00 60.33 35.14 11.71 61.04 300</td> <td>0 Peak</td> <td>HORIZONTAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2 7440.00 42.48 -31.52 74.00 51.76 36.89 14.88 61.05 300</td> <td>0 Peak</td> <td>HORIZONTAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Level | Line | Level | Factor | Loss | Factor | Factor | dB | cm | deg | 1 4962.00 46.14 -27.88 74.00 60.33 35.14 11.71 61.04 300 | 0 Peak | HORIZONTAL | | | | | | | | 2 7440.00 42.48 -31.52 74.00 51.76 36.89 14.88 61.05 300 | 0 Peak | HORIZONTAL | | | | | | | | <p>Site : 03D906-KS Condition : FCC PART 15C 3m 3117 SW 10957 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SFT:Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 4962.00 46.01 -29.99 74.00 58.53 34.81 11.71 61.04 300</td> <td>300 Peak</td> <td>VERTICAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2 7440.00 42.20 -31.80 74.00 51.90 36.47 14.88 61.05 300</td> <td>300 Peak</td> <td>VERTICAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Level | Line | Level | Factor | Loss | Factor | Factor | dB | cm | deg | 1 4962.00 46.01 -29.99 74.00 58.53 34.81 11.71 61.04 300 | 300 Peak | VERTICAL | | | | | | | | 2 7440.00 42.20 -31.80 74.00 51.90 36.47 14.88 61.05 300 | 300 Peak | VERTICAL | | | | | | | |
| Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level | Line | Level | Factor | Loss | Factor | Factor | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4962.00 46.14 -27.88 74.00 60.33 35.14 11.71 61.04 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 7440.00 42.48 -31.52 74.00 51.76 36.89 14.88 61.05 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level | Line | Level | Factor | Loss | Factor | Factor | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4962.00 46.01 -29.99 74.00 58.53 34.81 11.71 61.04 300 | 300 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 7440.00 42.20 -31.80 74.00 51.90 36.47 14.88 61.05 300 | 300 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Emission below 1GHz
2.4GHz BLE (LF)

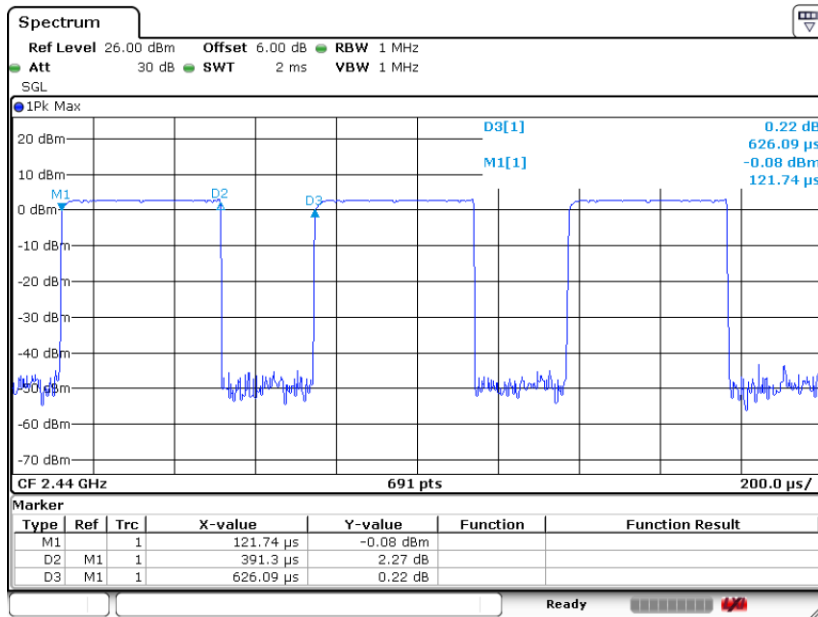
| BLE | 2.4GHz 2400~2483.5MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|----------|--------|-------------|-------------|-------------|--------|--------|--------|---------|------------|---------|-----|--------|----|--------|------|----|----|----|-----|--|--|---|-------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|---|-------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------|------------|--|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|---------|-----|--------|----|--------|------|----|----|----|-----|--|--|---|-------|-------|--------|-------|-------|-------|------|-------|-----|---------|----------|---|-------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------|----------|
| ANT | BLE LF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QP / Peak | <p>Site : 03DH0-K3 Condition : FCC PART 15C In CBL6111D SN7182 HORIZONTAL RRE 100.000MHz VRR 300.000MHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Pha</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30.00</td> <td>19.97</td> <td>-20.03</td> <td>40.00</td> <td>26.79</td> <td>25.30</td> <td>0.58</td> <td>32.70</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>66.93</td> <td>17.98</td> <td>-20.03</td> <td>43.50</td> <td>33.29</td> <td>15.68</td> <td>1.59</td> <td>32.78</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>3</td> <td>160.44</td> <td>24.11</td> <td>-21.28</td> <td>46.00</td> <td>28.00</td> <td>23.20</td> <td>2.82</td> <td>32.57</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>4</td> <td>496.57</td> <td>25.30</td> <td>-18.89</td> <td>46.00</td> <td>27.01</td> <td>26.10</td> <td>4.27</td> <td>32.78</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>5</td> <td>831.22</td> <td>27.73</td> <td>-18.27</td> <td>46.00</td> <td>26.75</td> <td>28.84</td> <td>4.70</td> <td>32.56</td> <td>185</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>6</td> <td>979.03</td> <td>26.61</td> <td>-21.33</td> <td>54.00</td> <td>23.47</td> <td>30.28</td> <td>5.10</td> <td>32.18</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Pha | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | cm | deg | | | 1 | 30.00 | 19.97 | -20.03 | 40.00 | 26.79 | 25.30 | 0.58 | 32.70 | --- | Peak | HORIZONTAL | 2 | 66.93 | 17.98 | -20.03 | 43.50 | 33.29 | 15.68 | 1.59 | 32.78 | --- | Peak | HORIZONTAL | 3 | 160.44 | 24.11 | -21.28 | 46.00 | 28.00 | 23.20 | 2.82 | 32.57 | --- | Peak | HORIZONTAL | 4 | 496.57 | 25.30 | -18.89 | 46.00 | 27.01 | 26.10 | 4.27 | 32.78 | --- | Peak | HORIZONTAL | 5 | 831.22 | 27.73 | -18.27 | 46.00 | 26.75 | 28.84 | 4.70 | 32.56 | 185 | Peak | HORIZONTAL | 6 | 979.03 | 26.61 | -21.33 | 54.00 | 23.47 | 30.28 | 5.10 | 32.18 | --- | Peak | HORIZONTAL | <p>Site : 03DH0-K3 Condition : FCC PART 15C In CBL6111D SN7182 VERTICAL RRE 100.000MHz VRR 300.000MHz SRT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Pha</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30.97</td> <td>20.59</td> <td>-19.41</td> <td>40.00</td> <td>28.66</td> <td>24.04</td> <td>0.59</td> <td>32.70</td> <td>120</td> <td>36 Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>66.93</td> <td>22.02</td> <td>-21.48</td> <td>43.50</td> <td>30.94</td> <td>16.41</td> <td>1.59</td> <td>32.78</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>3</td> <td>162.48</td> <td>24.02</td> <td>-24.93</td> <td>46.00</td> <td>27.80</td> <td>28.95</td> <td>2.84</td> <td>32.58</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>4</td> <td>496.55</td> <td>25.46</td> <td>-20.00</td> <td>46.00</td> <td>28.08</td> <td>24.83</td> <td>4.28</td> <td>32.79</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>5</td> <td>855.47</td> <td>26.56</td> <td>-19.44</td> <td>46.00</td> <td>27.95</td> <td>26.43</td> <td>4.77</td> <td>32.59</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>6</td> <td>982.04</td> <td>26.33</td> <td>-21.67</td> <td>54.00</td> <td>26.17</td> <td>27.22</td> <td>5.10</td> <td>32.17</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Pha | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | cm | deg | | | 1 | 30.97 | 20.59 | -19.41 | 40.00 | 28.66 | 24.04 | 0.59 | 32.70 | 120 | 36 Peak | VERTICAL | 2 | 66.93 | 22.02 | -21.48 | 43.50 | 30.94 | 16.41 | 1.59 | 32.78 | --- | Peak | VERTICAL | 3 | 162.48 | 24.02 | -24.93 | 46.00 | 27.80 | 28.95 | 2.84 | 32.58 | --- | Peak | VERTICAL | 4 | 496.55 | 25.46 | -20.00 | 46.00 | 28.08 | 24.83 | 4.28 | 32.79 | --- | Peak | VERTICAL | 5 | 855.47 | 26.56 | -19.44 | 46.00 | 27.95 | 26.43 | 4.77 | 32.59 | --- | Peak | VERTICAL | 6 | 982.04 | 26.33 | -21.67 | 54.00 | 26.17 | 27.22 | 5.10 | 32.17 | --- | Peak | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Pha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30.00 | 19.97 | -20.03 | 40.00 | 26.79 | 25.30 | 0.58 | 32.70 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 66.93 | 17.98 | -20.03 | 43.50 | 33.29 | 15.68 | 1.59 | 32.78 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 160.44 | 24.11 | -21.28 | 46.00 | 28.00 | 23.20 | 2.82 | 32.57 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 496.57 | 25.30 | -18.89 | 46.00 | 27.01 | 26.10 | 4.27 | 32.78 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 831.22 | 27.73 | -18.27 | 46.00 | 26.75 | 28.84 | 4.70 | 32.56 | 185 | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 979.03 | 26.61 | -21.33 | 54.00 | 23.47 | 30.28 | 5.10 | 32.18 | --- | Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Pha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30.97 | 20.59 | -19.41 | 40.00 | 28.66 | 24.04 | 0.59 | 32.70 | 120 | 36 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 66.93 | 22.02 | -21.48 | 43.50 | 30.94 | 16.41 | 1.59 | 32.78 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 162.48 | 24.02 | -24.93 | 46.00 | 27.80 | 28.95 | 2.84 | 32.58 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 496.55 | 25.46 | -20.00 | 46.00 | 28.08 | 24.83 | 4.28 | 32.79 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 855.47 | 26.56 | -19.44 | 46.00 | 27.95 | 26.43 | 4.77 | 32.59 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 982.04 | 26.33 | -21.67 | 54.00 | 26.17 | 27.22 | 5.10 | 32.17 | --- | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Appendix D. Duty Cycle Plots

| Band | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|--------------------|---------------|-------|----------|-------------|
| Bluetooth LE 1Mbps | 62.50 | 0.391 | 2.578 | 2.7KHz |
| Bluetooth LE 2Mbps | 32.87 | 0.206 | 4.854 | 5.1KHz |

Bluetooth LE 1Mbps





Bluetooth LE 2Mbps

