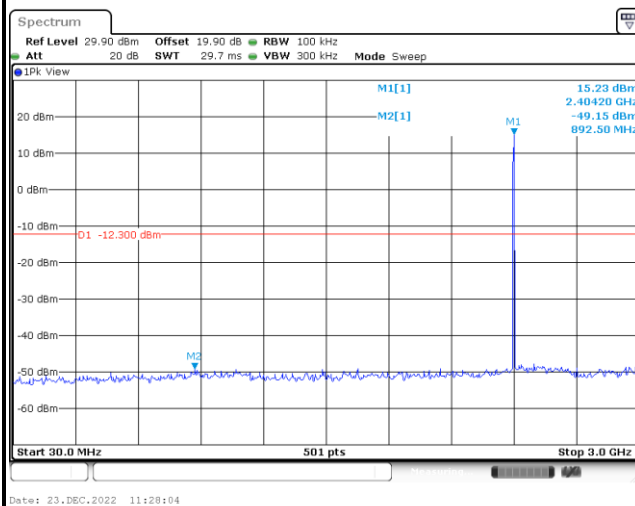
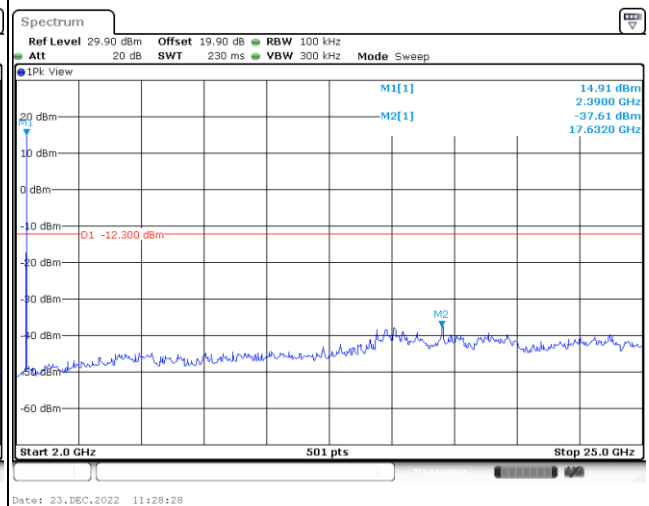
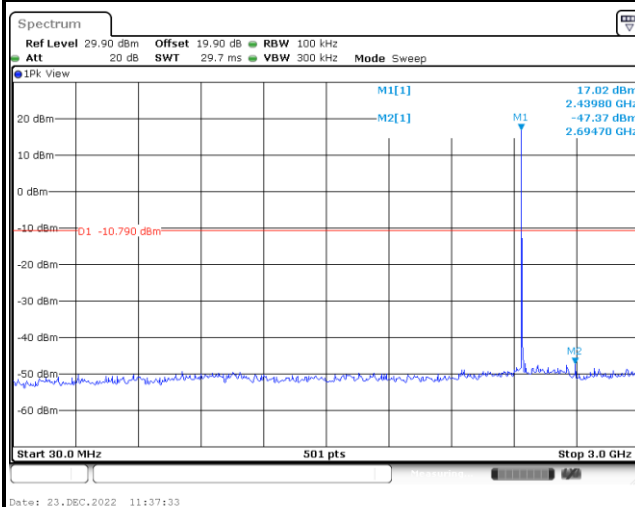
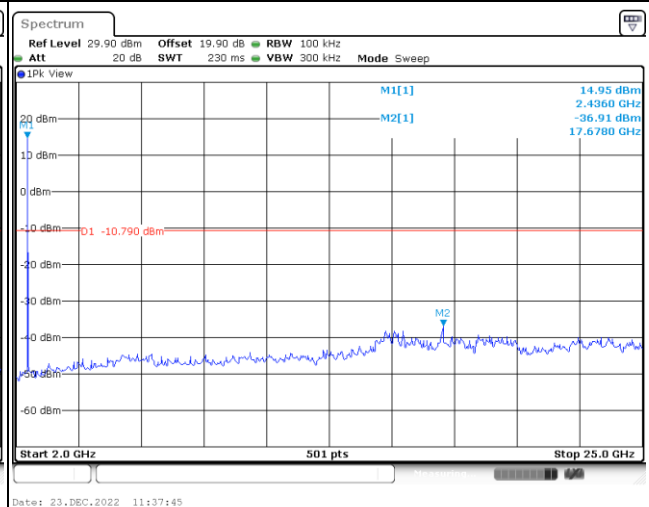


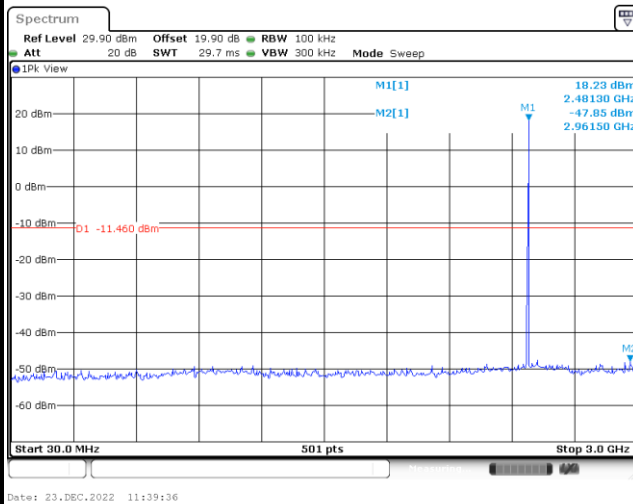


&lt;2Mbps&gt;

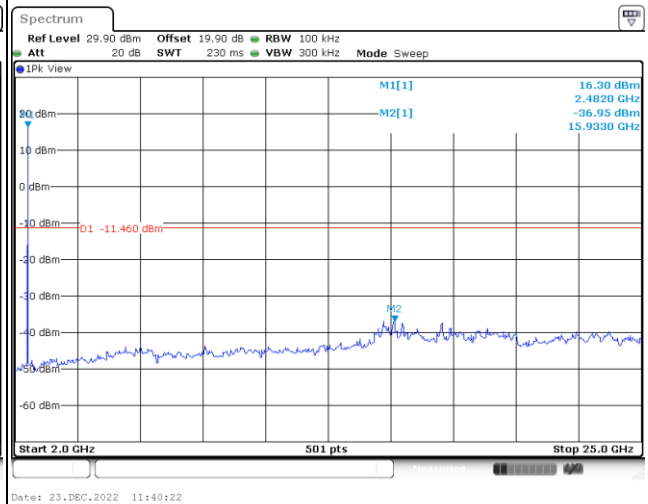
**Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 19****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 19**



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



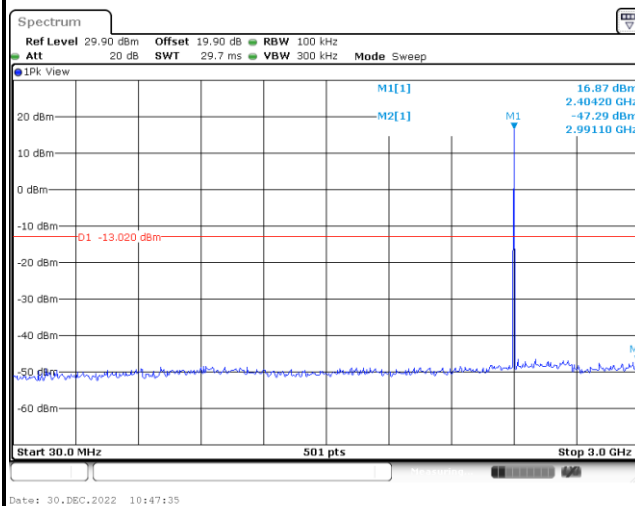
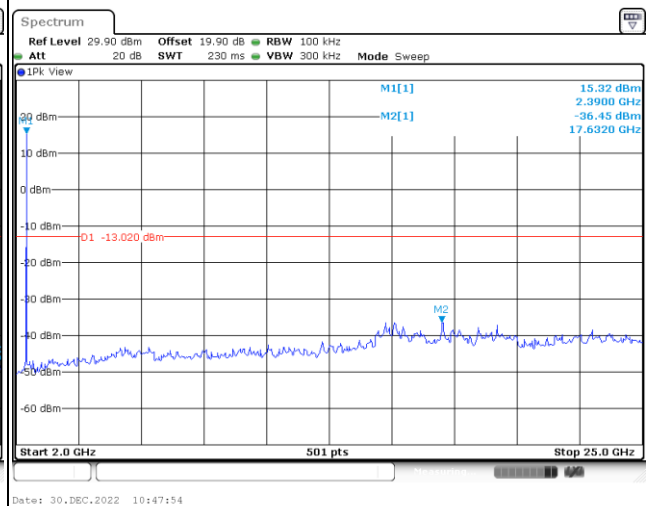
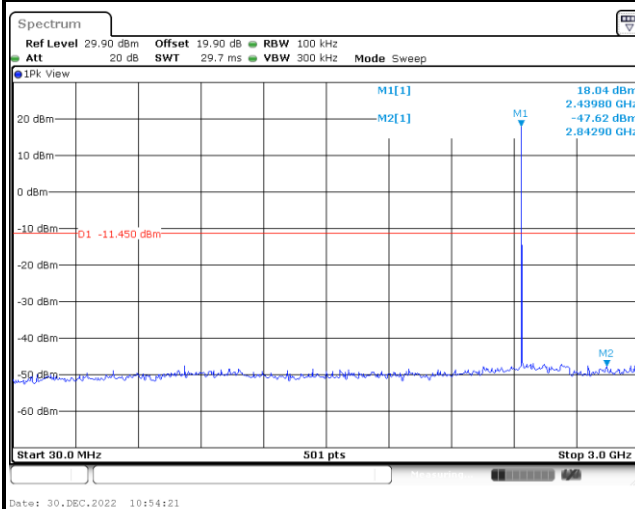
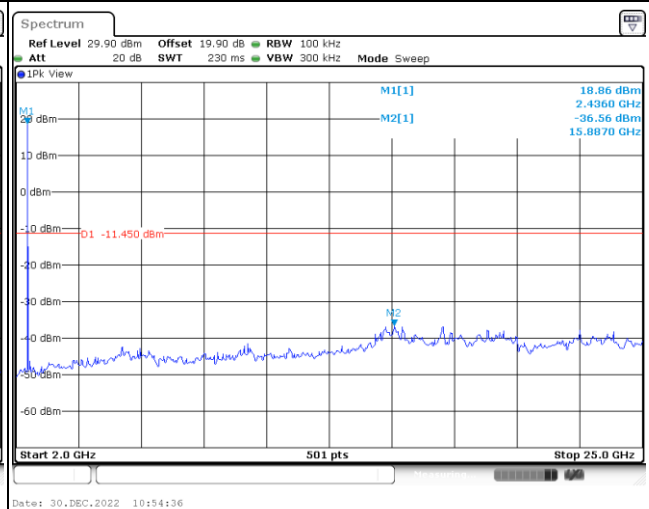
Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 39





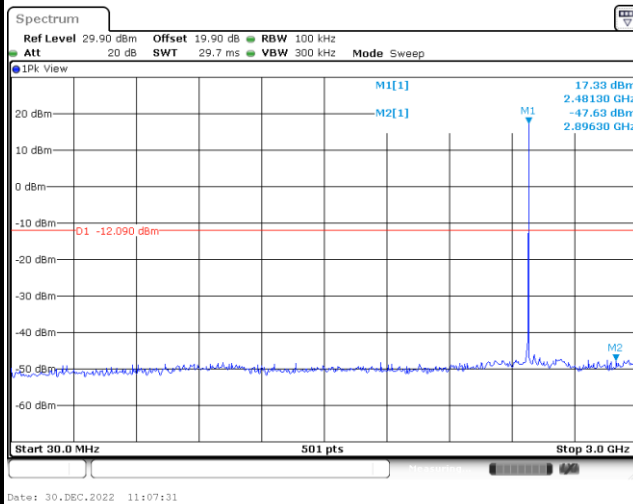
MIMO&lt;Ant.3&gt;

&lt;1Mbps&gt;

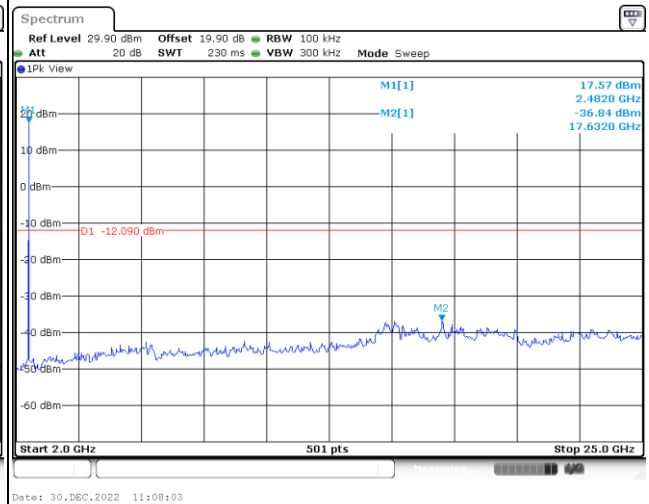
**Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 19****Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 19**



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

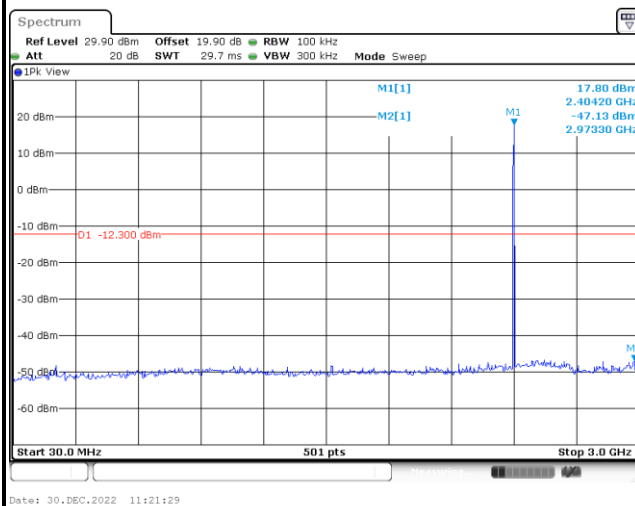
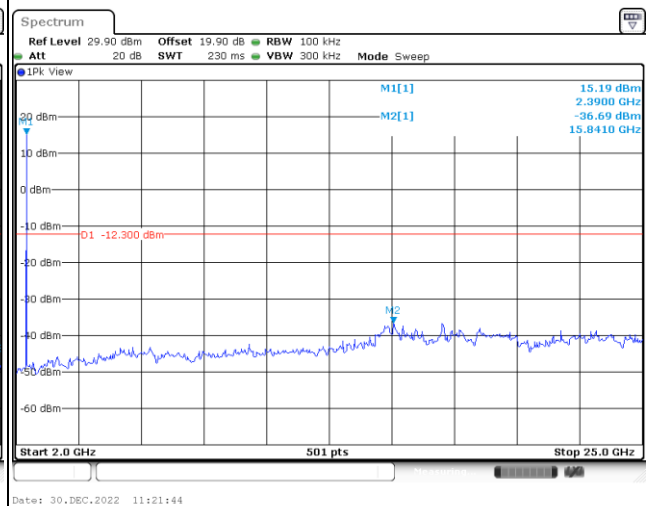
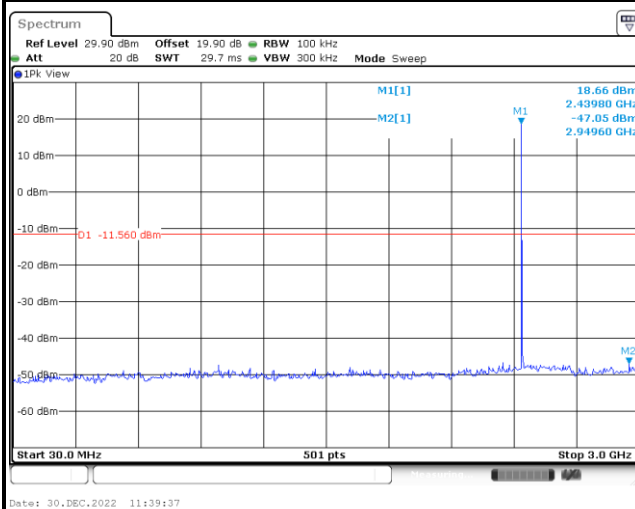
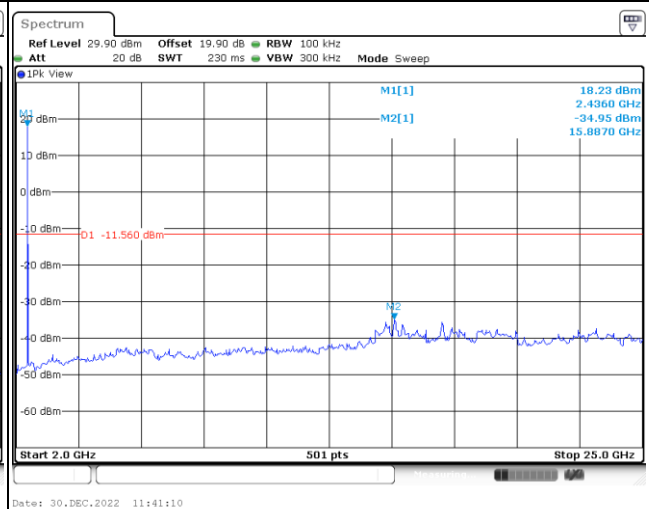


Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 39



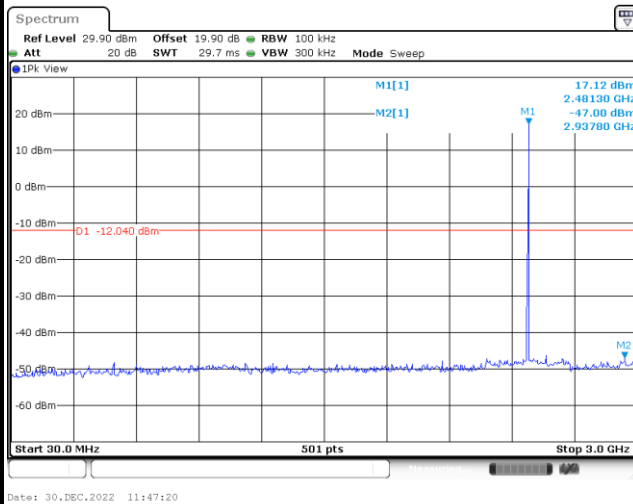


&lt;2Mbps&gt;

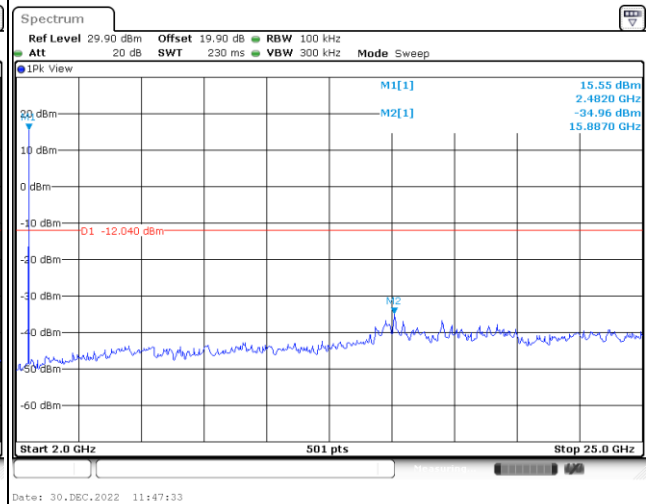
**Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 19****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 19**



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



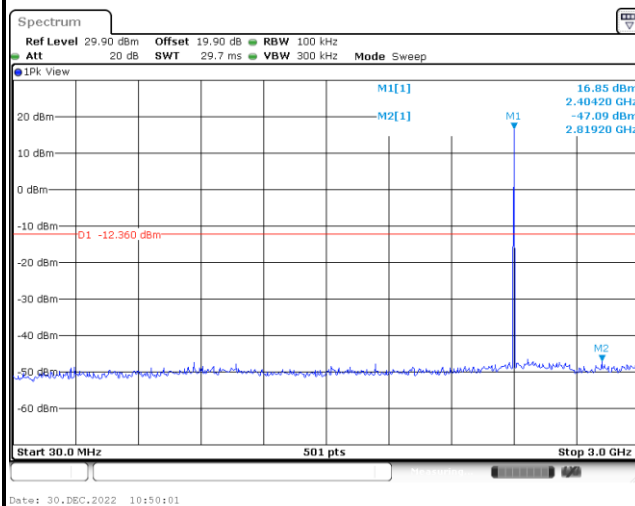
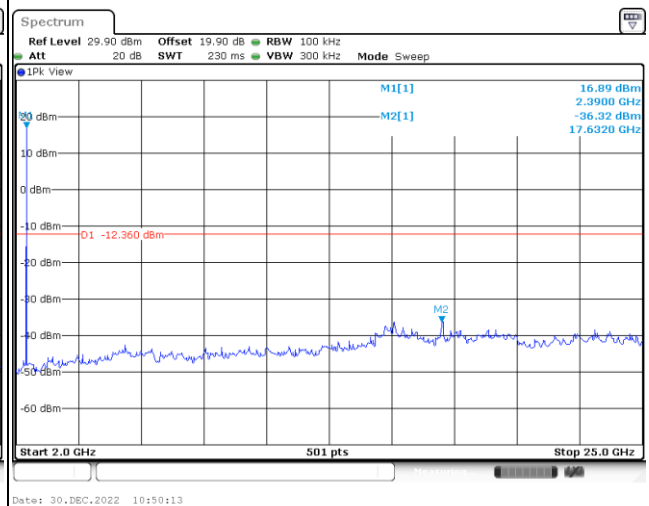
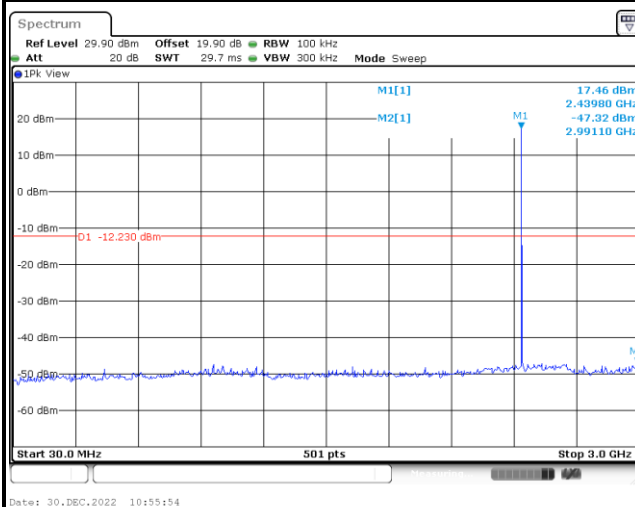
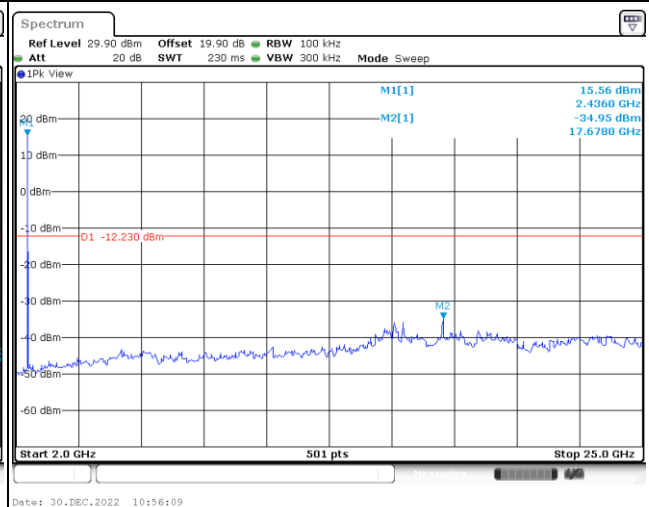
Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 39





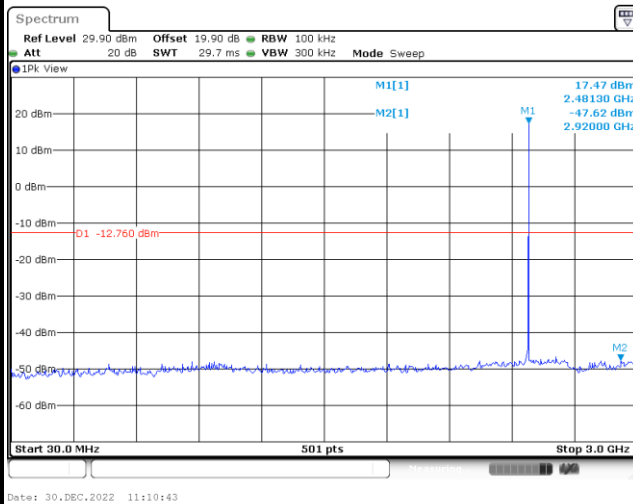
MIMO&lt;Ant.4&gt;

&lt;1Mbps&gt;

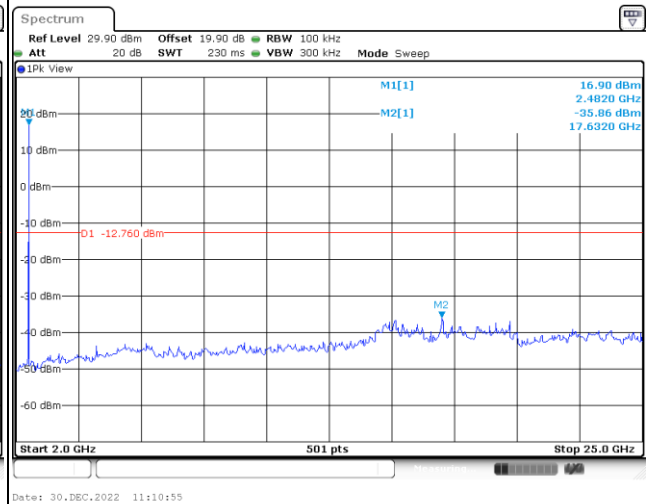
**Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 19****Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 19**



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

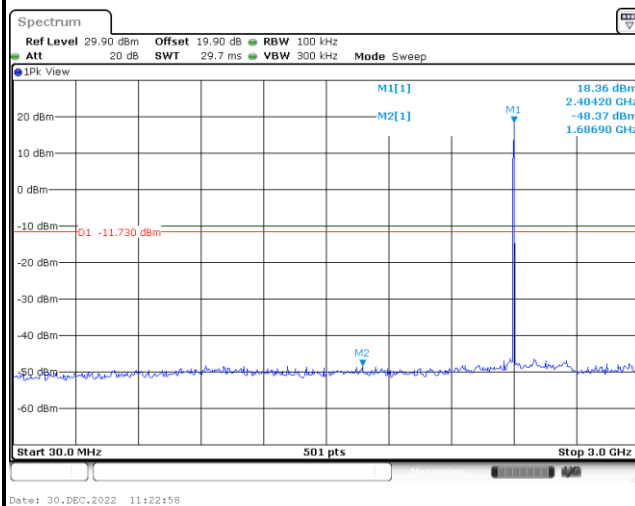
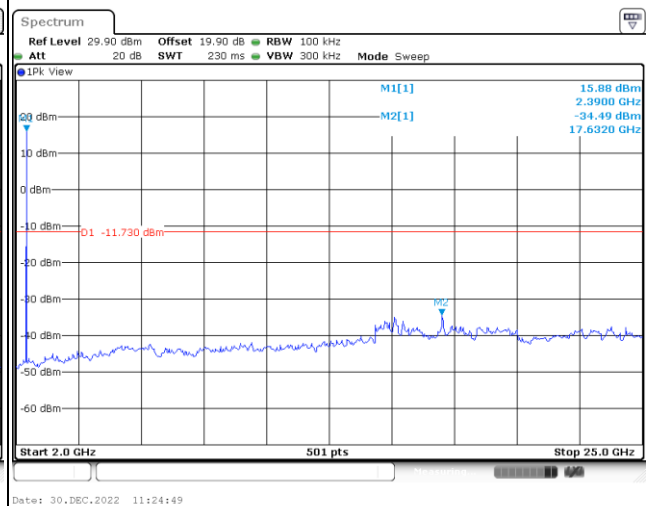
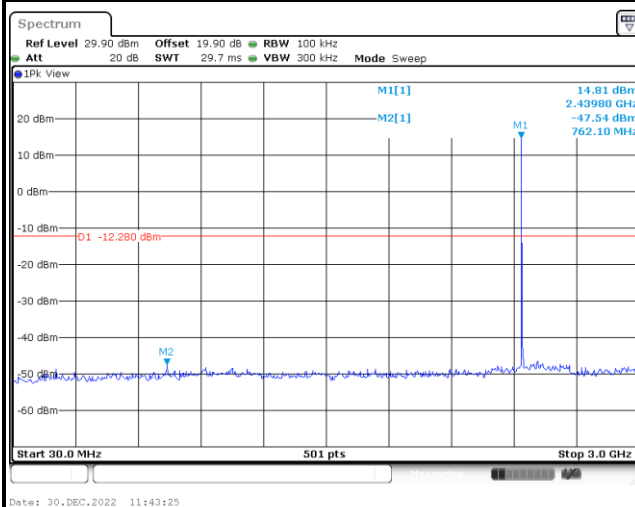
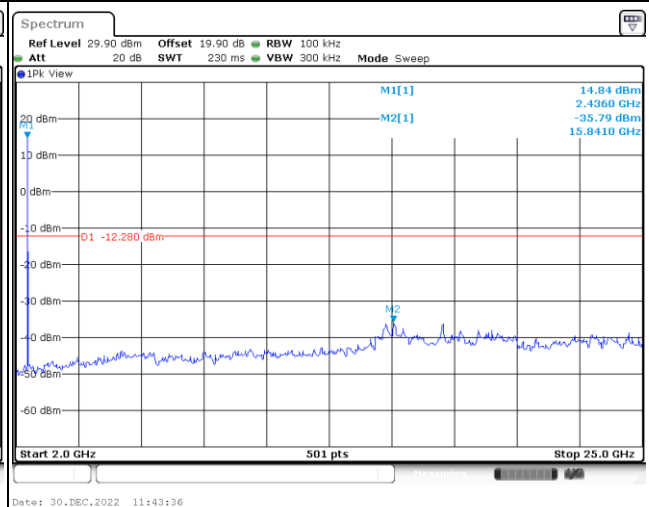


Conducted Spurious Emission Plot on  
Bluetooth LE 1Mbps GFSK Channel 39



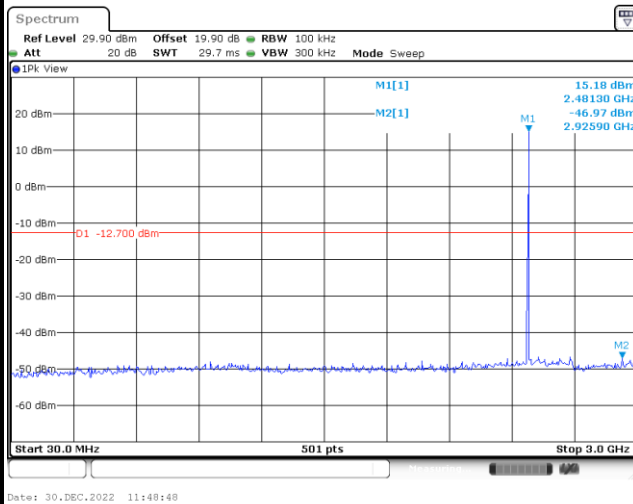


&lt;2Mbps&gt;

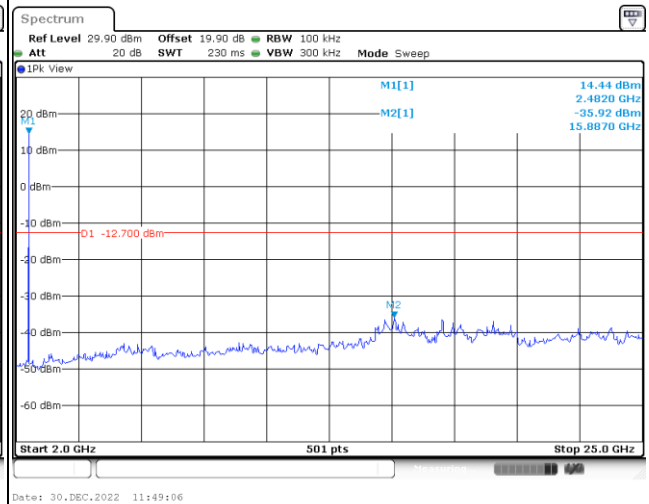
**Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 00****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 19****Conducted Spurious Emission Plot on  
Bluetooth LE 2Mbps GFSK Channel 19**



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



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



### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is 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<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(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

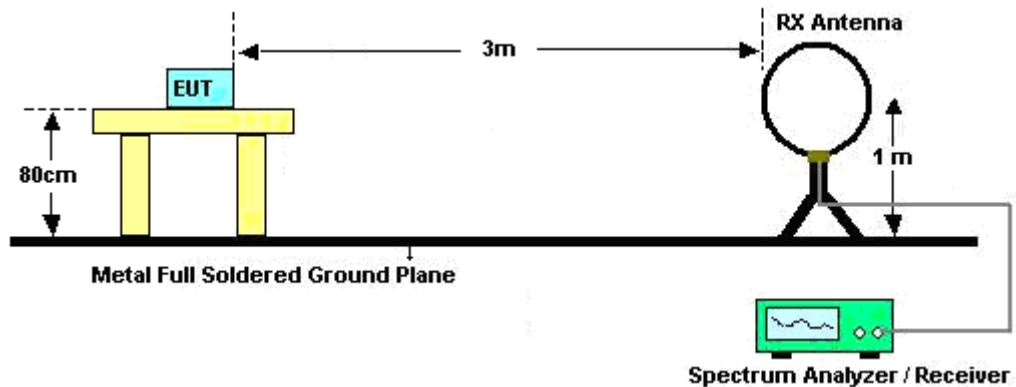
Please refer to the measuring equipment list in this test report.

### 3.5.3 Test Procedures

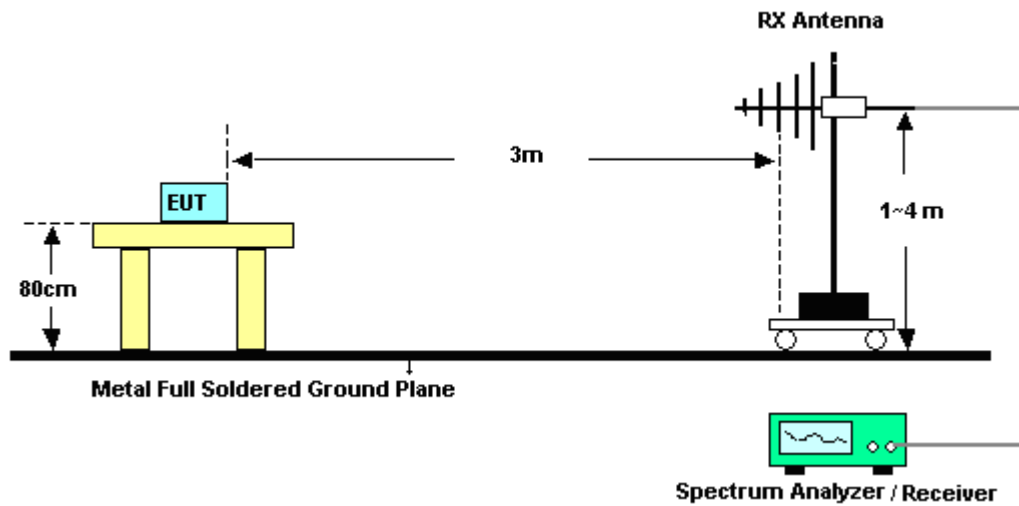
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
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 = 3 MHz 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

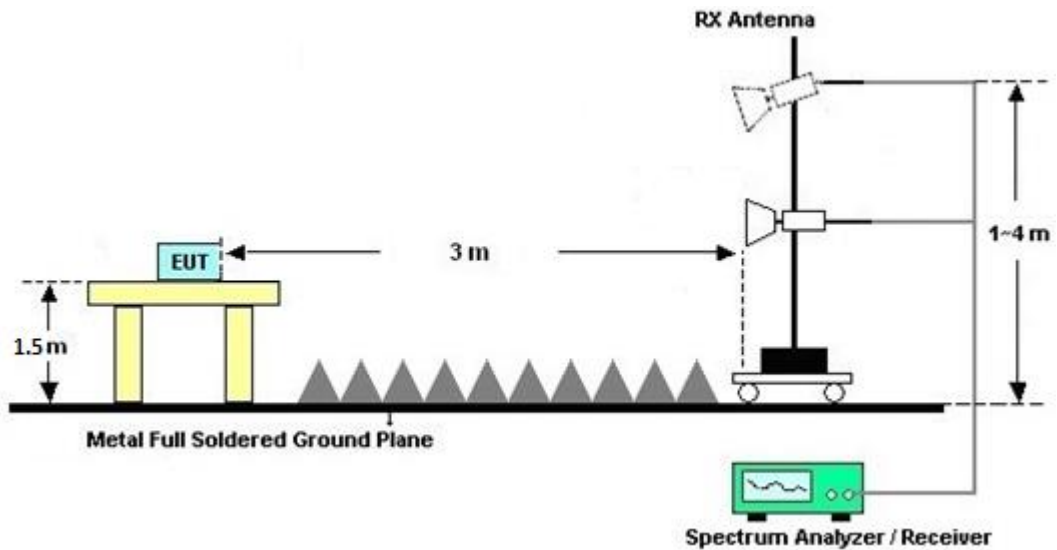
For radiated test below 30MHz



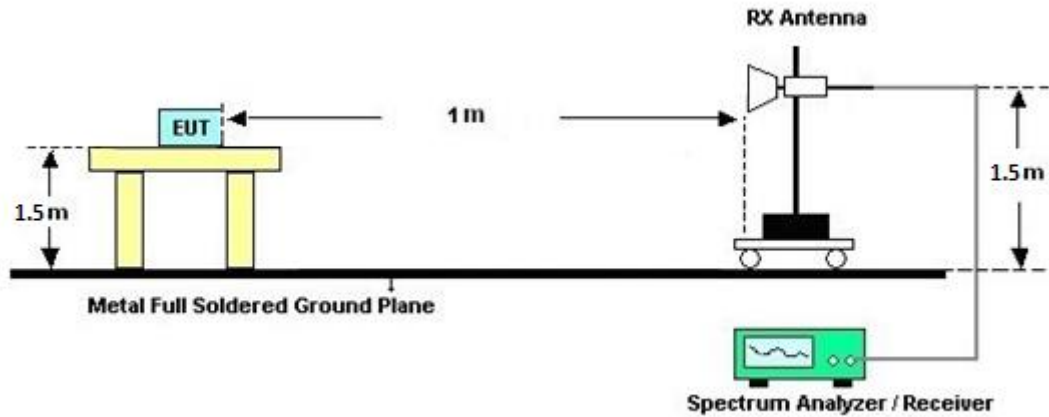
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

### 3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

### 3.5.7 Duty Cycle

Please refer to Appendix E.

### 3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

## 3.6 AC Conducted Emission Measurement

### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15-0.5                    | 66 to 56*                    | 56 to 46* |
| 0.5-5                       | 56                           | 46        |
| 5-30                        | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

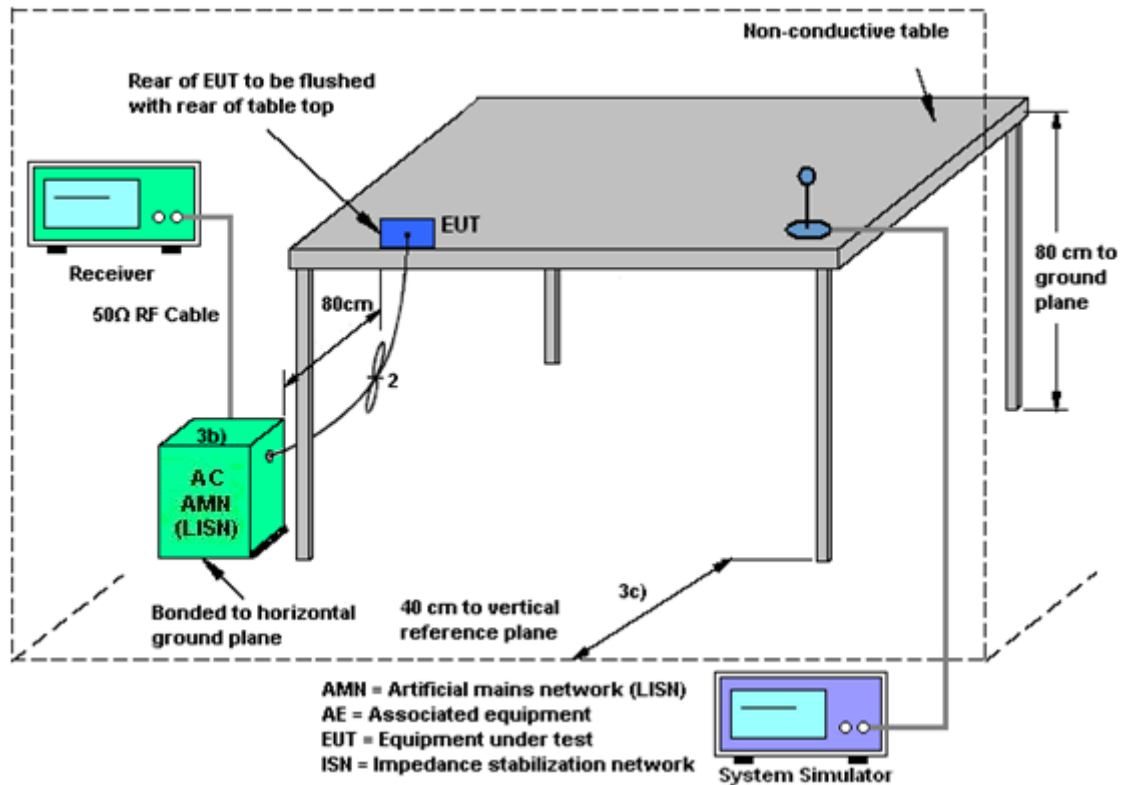
### 3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.6.3 Test Procedures

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

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



## 4 List of Measuring Equipment

| Instrument           | Brand Name      | Model No.                     | Serial No.                | Characteristics                  | Calibration Date | Test Date                       | Due Date      | Remark                   |
|----------------------|-----------------|-------------------------------|---------------------------|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna         | Rohde & Schwarz | HFH2-Z2                       | 100488                    | 9 kHz~30 MHz                     | Sep. 20, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Sep. 19, 2023 | Radiation<br>(03CH16-HY) |
| Preamplifier         | EMEC            | EM18G40G                      | 060715                    | 18GHz~40GHz                      | Dec. 24, 2021    | Nov. 27, 2022~<br>Dec. 22, 2022 | Dec. 23, 2022 | Radiation<br>(03CH16-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK     | BBHA9170                      | 00993                     | 18GHz~40GHz                      | Nov. 24, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Nov. 23, 2023 | Radiation<br>(03CH16-HY) |
| Amplifier            | SONOMA          | 310N                          | 371607                    | 9kHz~1GHz                        | Jul. 04, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Jul. 03, 2023 | Radiation<br>(03CH16-HY) |
| Bilog Antenna        | TESEQ           | CBL 6111D &<br>00802N1D01N-06 | 47020 & 06                | 30MHz~1GHz                       | Oct. 08, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Oct. 07, 2023 | Radiation<br>(03CH16-HY) |
| EMI Test Receiver    | Keysight        | N9038A(MXE)                   | MY57290111                | 3Hz~26.5GHz                      | Dec. 15, 2021    | Nov. 27, 2022~<br>Dec. 13, 2022 | Dec. 14, 2022 | Radiation<br>(03CH16-HY) |
| Signal Analyzer      | Keysight        | N9010B                        | MY62170278                | 10Hz~44GHz                       | Sep. 11, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Sep. 10, 2023 | Radiation<br>(03CH16-HY) |
| Horn Antenna         | SCHWARZBECK     | BBHA 9120 D                   | 9120D-1522                | 1GHz~18GHz                       | Mar. 10, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Mar. 09, 2023 | Radiation<br>(03CH16-HY) |
| Preamplifier         | Keysight        | 83017A                        | MY53270264                | 1GHz~26.5GHz                     | Dec. 09, 2021    | Nov. 27, 2022~<br>Dec. 07, 2022 | Dec. 08, 2022 | Radiation<br>(03CH16-HY) |
| Preamplifier         | EMEC            | EM1G18G                       | 060812                    | 1GHz~18GHz                       | Dec. 27, 2021    | Nov. 27, 2022~<br>Dec. 22, 2022 | Dec. 26, 2022 | Radiation<br>(03CH16-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 104                  | 805935/4                  | N/A                              | Aug. 09, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Aug. 08, 2023 | Radiation<br>(03CH16-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 104                  | 802434/4                  | N/A                              | Aug. 09, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Aug. 08, 2023 | Radiation<br>(03CH16-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                  | EC-A5-300-5757            | N/A                              | Aug. 09, 2022    | Nov. 27, 2022~<br>Dec. 22, 2022 | Aug. 08, 2023 | Radiation<br>(03CH16-HY) |
| Controller           | ChainTek        | 3000-1                        | N/A                       | Control Turn<br>table & Ant Mast | N/A              | Nov. 27, 2022~<br>Dec. 22, 2022 | N/A           | Radiation<br>(03CH16-HY) |
| Antenna Mast         | ChainTek        | MBS-520-1                     | N/A                       | 1m~4m                            | N/A              | Nov. 27, 2022~<br>Dec. 22, 2022 | N/A           | Radiation<br>(03CH16-HY) |
| Turn Table           | ChainTek        | T-200-S-1                     | N/A                       | 0~360 Degree                     | N/A              | Nov. 27, 2022~<br>Dec. 22, 2022 | N/A           | Radiation<br>(03CH16-HY) |
| Software             | Audix           | E3 6.2009-8-24                | RK-001136                 | N/A                              | N/A              | Nov. 27, 2022~<br>Dec. 22, 2022 | N/A           | Radiation<br>(03CH16-HY) |
| AC Power Source      | ChainTek        | APC-1000W                     | N/A                       | N/A                              | N/A              | Dec. 07, 2022                   | N/A           | Conduction<br>(CO05-HY)  |
| EMI Test Receiver    | Rohde & Schwarz | ESR3                          | 102388                    | 9kHz~3.6GHz                      | Dec. 01, 2022    | Dec. 07, 2022                   | Nov. 30, 2023 | Conduction<br>(CO05-HY)  |
| Hygrometer           | Testo           | 608-H1                        | 34913912                  | N/A                              | Nov. 17, 2022    | Dec. 07, 2022                   | Nov. 16, 2023 | Conduction<br>(CO05-HY)  |
| LISN                 | Rohde & Schwarz | ENV216                        | 100081                    | 9kHz~30MHz                       | Nov. 17, 2022    | Dec. 07, 2022                   | Nov. 16, 2023 | Conduction<br>(CO05-HY)  |
| Software             | Rohde & Schwarz | EMC32                         | N/A                       | N/A                              | N/A              | Dec. 07, 2022                   | N/A           | Conduction<br>(CO05-HY)  |
| Pulse Limiter        | SCHWARZBECK     | VTSD 9561-F N                 | 00691                     | N/A                              | Aug. 01, 2022    | Dec. 07, 2022                   | Jul. 31, 2023 | Conduction<br>(CO05-HY)  |
| LISN Cable           | MVE             | RG-400                        | 260260                    | N/A                              | Dec. 30, 2021    | Dec. 07, 2022                   | Dec. 29, 2022 | Conduction<br>(CO05-HY)  |
| Hygrometer           | TECPEL          | DTM-303A                      | TP201996                  | N/A                              | Nov. 17, 2022    | Dec. 16, 2022~<br>Dec. 30, 2022 | Nov. 16, 2023 | Conducted<br>(TH05-HY)   |
| Power Sensor         | DARE            | RPR3006W                      | 15100041SNO10<br>(NO:248) | 10MHz~6GHz                       | Dec. 29, 2021    | Dec. 16, 2022~<br>Dec. 27, 2022 | Dec. 28, 2022 | Conducted<br>(TH05-HY)   |
| Power Sensor         | DARE            | RPR3006W                      | 17100015SNO36<br>(NO:35)  | 10MHz~6GHz                       | Sep. 04, 2022    | Dec. 28, 2022~<br>Dec. 30, 2022 | Sep. 03, 2023 | Conducted<br>(TH05-HY)   |
| Signal Analyzer      | Rohde & Schwarz | FSV40                         | 101905                    | 10Hz -<br>40GHz(amp)             | Aug. 03, 2022    | Dec. 16, 2022~<br>Dec. 30, 2022 | Aug. 02, 2023 | Conducted<br>(TH05-HY)   |

## 5 Uncertainty of Evaluation

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.50 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.50 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.60 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.50 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.60 dB |
|-------------------------------------------------------------------------|---------|

**Appendix A. Test Result of Conducted Test Items**

|                |                       |                    |       |    |
|----------------|-----------------------|--------------------|-------|----|
| Test Engineer: | Hank Hsu              | Temperature:       | 21~25 | °C |
| Test Date:     | 2022/12/16~2022/12/30 | Relative Humidity: | 51~54 | %  |

&lt;Ant.3&gt;

**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        | 1.035                 | 0.714        | 0.50               | Pass      |
| BLE  | 1Mbps     | 1   | 19  | 2440        | 1.035                 | 0.718        | 0.50               | Pass      |
| BLE  | 1Mbps     | 1   | 39  | 2480        | 1.035                 | 0.718        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE  | 1Mbps     | 1   | 0   | 2402        | 20.20                         | 30.00                       | -3.20    | 17.00            | 36.00                  | Pass       |
| BLE  | 1Mbps     | 1   | 19  | 2440        | 20.40                         | 30.00                       | -3.20    | 17.20            | 36.00                  | Pass       |
| BLE  | 1Mbps     | 1   | 39  | 2480        | 20.20                         | 30.00                       | -3.20    | 17.00            | 36.00                  | Pass       |

**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        | 18.30                  | 3.53                 | -3.20    | 8.00                       | Pass      |
| BLE  | 1Mbps     | 1   | 19  | 2440        | 18.30                  | 3.64                 | -3.20    | 8.00                       | Pass      |
| BLE  | 1Mbps     | 1   | 39  | 2480        | 18.64                  | 4.06                 | -3.20    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

**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        | 2.042                 | 1.192        | 0.50               | Pass      |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 2.046                 | 1.244        | 0.50               | Pass      |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 2.042                 | 1.248        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 20.60                         | 30.00                       | -3.20    | 17.40            | 36.00                  | Pass       |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 20.60                         | 30.00                       | -3.20    | 17.40            | 36.00                  | Pass       |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 20.30                         | 30.00                       | -3.20    | 17.10            | 36.00                  | Pass       |

**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        | 18.33                  | 0.04                 | -3.20    | 8.00                       | Pass      |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 18.34                  | 0.08                 | -3.20    | 8.00                       | Pass      |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 18.53                  | 0.33                 | -3.20    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

&lt;Ant.4&gt;

**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        | 1.033                 | 0.712        | 0.50               | Pass      |
| BLE  | 1Mbps     | 1   | 19  | 2440        | 1.035                 | 0.712        | 0.50               | Pass      |
| BLE  | 1Mbps     | 1   | 39  | 2480        | 1.035                 | 0.718        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE  | 1Mbps     | 1   | 0   | 2402        | 20.70                         | 30.00                       | -2.10    | 18.60            | 36.00                  | Pass       |
| BLE  | 1Mbps     | 1   | 19  | 2440        | 20.80                         | 30.00                       | -2.10    | 18.70            | 36.00                  | Pass       |
| BLE  | 1Mbps     | 1   | 39  | 2480        | 19.90                         | 30.00                       | -2.10    | 17.80            | 36.00                  | Pass       |

**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        | 18.35                  | 3.67                 | -2.10    | 8.00                       | Pass      |
| BLE  | 1Mbps     | 1   | 19  | 2440        | 19.27                  | 4.65                 | -2.10    | 8.00                       | Pass      |
| BLE  | 1Mbps     | 1   | 39  | 2480        | 18.60                  | 3.99                 | -2.10    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

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

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 2.046                 | 1.196        | 0.50               | Pass      |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 2.046                 | 1.236        | 0.50               | Pass      |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 2.042                 | 1.244        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 21.00                         | 30.00                       | -2.10    | 18.90            | 36.00                  | Pass       |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 20.90                         | 30.00                       | -2.10    | 18.80            | 36.00                  | Pass       |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 20.00                         | 30.00                       | -2.10    | 17.90            | 36.00                  | Pass       |

**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        | 17.70                  | -0.54                | -2.10    | 8.00                       | Pass      |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 19.21                  | 1.03                 | -2.10    | 8.00                       | Pass      |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 18.54                  | 0.38                 | -2.10    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

MIMO&lt;Ant.3+4&gt;

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

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW Ant 3 (MHz) | 99% Occupied BW Ant 4 (MHz) | 6dB BW Ant 3 (MHz) | 6dB BW Ant 4 (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------------|-----------------------------|--------------------|--------------------|--------------------|-----------|
| BLE  | 1Mbps     | 2   | 0   | 2402        | 1.037                       | 1.031                       | 0.714              | 0.710              | 0.50               | Pass      |
| BLE  | 1Mbps     | 2   | 19  | 2440        | 1.037                       | 1.035                       | 0.716              | 0.720              | 0.50               | Pass      |
| BLE  | 1Mbps     | 2   | 39  | 2480        | 1.035                       | 1.035                       | 0.718              | 0.722              | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power Ant 3 (dBm) | Average Conducted Power Ant 4 (dBm) | Total Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | Total EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|-------------------------------------|-------------------------------------|-----------------------------|-----------------------------|----------|------------------------|------------------------|------------|
| BLE  | 1Mbps     | 2   | 0   | 2402        | 17.70                               | 18.40                               | 21.07                       | 30.00                       | -2.10    | 18.97                  | 36.00                  | Pass       |
| BLE  | 1Mbps     | 2   | 19  | 2440        | 19.40                               | 18.70                               | 22.07                       | 30.00                       | -2.10    | 19.97                  | 36.00                  | Pass       |
| BLE  | 1Mbps     | 2   | 39  | 2480        | 18.60                               | 17.90                               | 21.27                       | 30.00                       | -2.10    | 19.17                  | 36.00                  | Pass       |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD Ant 3 (dBm /100kHz) | Peak PSD Ant 3 (dBm /3kHz) | Peak PSD Ant 4 (dBm /100kHz) | Peak PSD Ant 4 (dBm /3kHz) | Peak PSD Worst +3.01 (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------------|----------------------------|------------------------------|----------------------------|----------------------------------|----------|----------------------------|-----------|
| BLE  | 1Mbps     | 2   | 0   | 2402        | 16.98                        | 2.23                       | 17.64                        | 2.98                       | 5.99                             | 0.38     | 8.00                       | Pass      |
| BLE  | 1Mbps     | 2   | 19  | 2440        | 18.55                        | 3.85                       | 17.77                        | 3.12                       | 6.86                             | 0.38     | 8.00                       | Pass      |
| BLE  | 1Mbps     | 2   | 39  | 2480        | 17.91                        | 3.46                       | 17.24                        | 2.62                       | 6.47                             | 0.38     | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

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

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW Ant 3 (MHz) | 99% Occupied BW Ant 4 (MHz) | 6dB BW Ant 3 (MHz) | 6dB BW Ant 4 (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------------|-----------------------------|--------------------|--------------------|--------------------|-----------|
| BLE  | 2Mbps     | 2   | 0   | 2402        | 2.046                       | 2.038                       | 1.188              | 1.192              | 0.50               | Pass      |
| BLE  | 2Mbps     | 2   | 19  | 2440        | 2.046                       | 2.046                       | 1.204              | 1.244              | 0.50               | Pass      |
| BLE  | 2Mbps     | 2   | 39  | 2480        | 2.046                       | 2.046                       | 1.240              | 1.244              | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power Ant 3 (dBm) | Average Conducted Power Ant 4 (dBm) | Total Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | Total EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|-------------------------------------|-------------------------------------|-----------------------------|-----------------------------|----------|------------------------|------------------------|------------|
| BLE  | 2Mbps     | 2   | 0   | 2402        | 18.50                               | 19.10                               | 21.82                       | 30.00                       | -2.10    | 19.72                  | 36.00                  | Pass       |
| BLE  | 2Mbps     | 2   | 19  | 2440        | 20.10                               | 19.40                               | 22.77                       | 30.00                       | 2.10     | 24.87                  | 36.00                  | Pass       |
| BLE  | 2Mbps     | 2   | 39  | 2480        | 18.80                               | 18.20                               | 21.52                       | 30.00                       | -2.10    | 19.42                  | 36.00                  | Pass       |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD Ant 3 (dBm /100kHz) | Peak PSD Ant 3 (dBm /3kHz) | Peak PSD Ant 4 (dBm /100kHz) | Peak PSD Ant 4 (dBm /3kHz) | Peak PSD Worst +3.01 (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------------|----------------------------|------------------------------|----------------------------|----------------------------------|----------|----------------------------|-----------|
| BLE  | 2Mbps     | 2   | 0   | 2402        | 17.70                        | 18.27                      | -0.63                        | 0.12                       | 3.13                             | 0.38     | 8.00                       | Pass      |
| BLE  | 2Mbps     | 2   | 19  | 2440        | 18.44                        | 17.72                      | 0.32                         | -0.52                      | 3.33                             | 0.38     | 8.00                       | Pass      |
| BLE  | 2Mbps     | 2   | 39  | 2480        | 17.96                        | 17.30                      | -0.21                        | -0.92                      | 2.80                             | 0.38     | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.



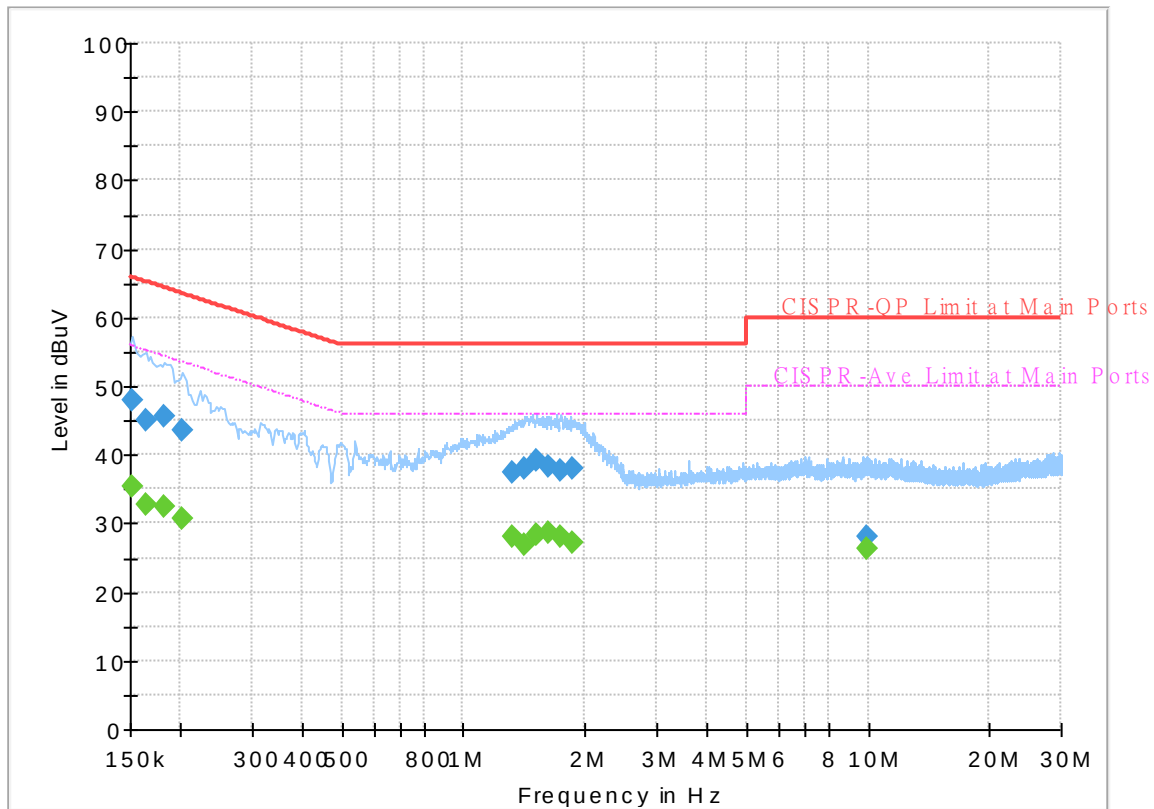
## **Appendix B. AC Conducted Emission Test Results**

|                        |         |                            |        |
|------------------------|---------|----------------------------|--------|
| <b>Test Engineer :</b> | Tom Lee | <b>Temperature :</b>       | 23~26℃ |
|                        |         | <b>Relative Humidity :</b> | 45~55% |

## EUT Information

Report NO : 262403-04  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

Full Spectrum



## Final Result

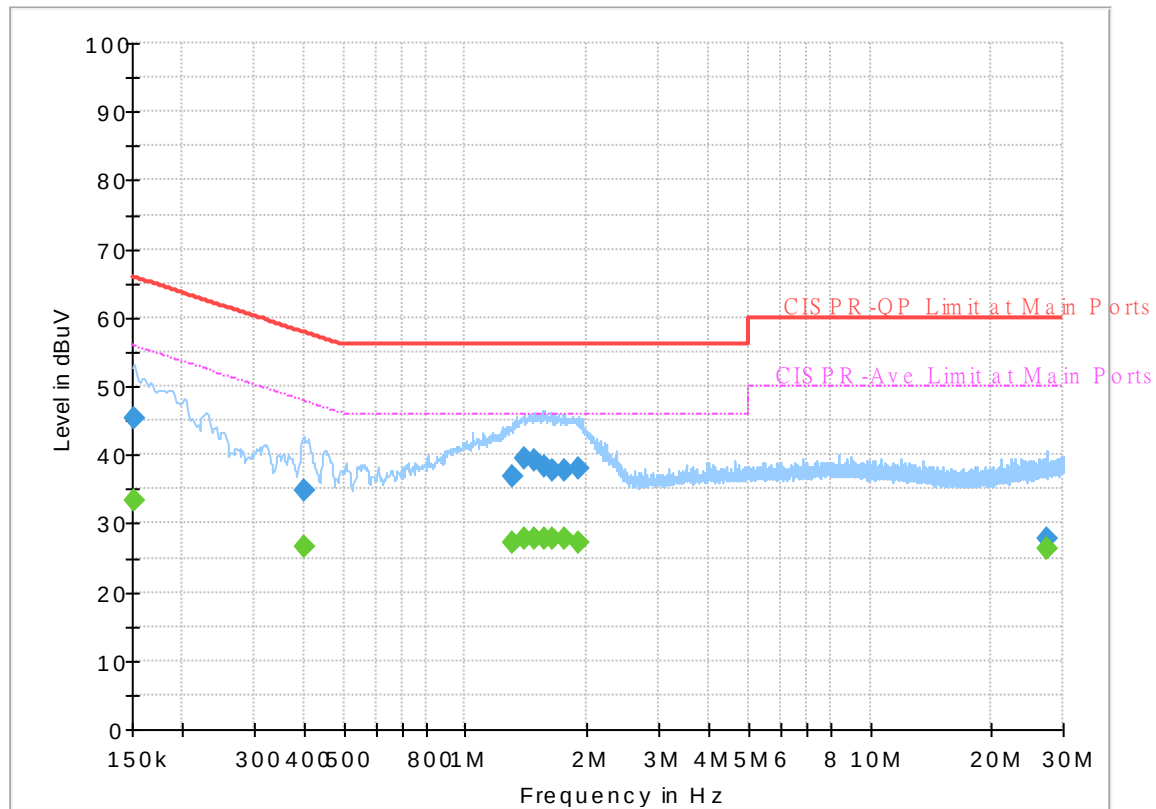
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250        | ---              | 35.44           | 55.88        | 20.44       | L1   | OFF    | 19.8       |
| 0.152250        | 48.02            | ---             | 65.88        | 17.86       | L1   | OFF    | 19.8       |
| 0.163500        | ---              | 32.62           | 55.28        | 22.66       | L1   | OFF    | 19.8       |
| 0.163500        | 45.06            | ---             | 65.28        | 20.22       | L1   | OFF    | 19.8       |
| 0.181500        | ---              | 32.53           | 54.42        | 21.89       | L1   | OFF    | 19.8       |
| 0.181500        | 45.49            | ---             | 64.42        | 18.93       | L1   | OFF    | 19.8       |
| 0.201750        | ---              | 30.57           | 53.54        | 22.97       | L1   | OFF    | 19.8       |
| 0.201750        | 43.55            | ---             | 63.54        | 19.99       | L1   | OFF    | 19.8       |
| 1.322250        | ---              | 28.00           | 46.00        | 18.00       | L1   | OFF    | 19.8       |
| 1.322250        | 37.52            | ---             | 56.00        | 18.48       | L1   | OFF    | 19.8       |
| 1.410000        | ---              | 26.95           | 46.00        | 19.05       | L1   | OFF    | 19.9       |
| 1.410000        | 38.11            | ---             | 56.00        | 17.89       | L1   | OFF    | 19.9       |
| 1.515750        | ---              | 28.44           | 46.00        | 17.56       | L1   | OFF    | 19.9       |
| 1.515750        | 39.20            | ---             | 56.00        | 16.80       | L1   | OFF    | 19.9       |
| 1.623750        | ---              | 28.68           | 46.00        | 17.32       | L1   | OFF    | 19.9       |
| 1.623750        | 38.27            | ---             | 56.00        | 17.73       | L1   | OFF    | 19.9       |
| 1.747500        | ---              | 27.97           | 46.00        | 18.03       | L1   | OFF    | 19.9       |
| 1.747500        | 37.76            | ---             | 56.00        | 18.24       | L1   | OFF    | 19.9       |
| 1.864500        | ---              | 27.33           | 46.00        | 18.67       | L1   | OFF    | 19.9       |
| 1.864500        | 37.88            | ---             | 56.00        | 18.12       | L1   | OFF    | 19.9       |
| 9.980250        | ---              | 26.42           | 50.00        | 23.58       | L1   | OFF    | 20.2       |

|          |       |     |       |       |    |     |      |
|----------|-------|-----|-------|-------|----|-----|------|
| 9.980250 | 28.16 | --- | 60.00 | 31.84 | L1 | OFF | 20.2 |
|----------|-------|-----|-------|-------|----|-----|------|

## EUT Information

Report NO : 262403-04  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

Full Spectrum



## Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250        | ---              | 33.31           | 55.88        | 22.57       | N    | OFF    | 19.8       |
| 0.152250        | 45.38            | ---             | 65.88        | 20.50       | N    | OFF    | 19.8       |
| 0.397500        | ---              | 26.60           | 47.91        | 21.31       | N    | OFF    | 19.8       |
| 0.397500        | 34.84            | ---             | 57.91        | 23.07       | N    | OFF    | 19.8       |
| 1.302000        | ---              | 27.08           | 46.00        | 18.92       | N    | OFF    | 19.8       |
| 1.302000        | 36.98            | ---             | 56.00        | 19.02       | N    | OFF    | 19.8       |
| 1.394250        | ---              | 27.65           | 46.00        | 18.35       | N    | OFF    | 19.8       |
| 1.394250        | 39.51            | ---             | 56.00        | 16.49       | N    | OFF    | 19.8       |
| 1.475250        | ---              | 27.82           | 46.00        | 18.18       | N    | OFF    | 19.8       |
| 1.475250        | 39.14            | ---             | 56.00        | 16.86       | N    | OFF    | 19.8       |
| 1.567500        | ---              | 27.88           | 46.00        | 18.12       | N    | OFF    | 19.8       |
| 1.567500        | 38.29            | ---             | 56.00        | 17.71       | N    | OFF    | 19.8       |
| 1.648500        | ---              | 27.84           | 46.00        | 18.16       | N    | OFF    | 19.8       |
| 1.648500        | 37.81            | ---             | 56.00        | 18.19       | N    | OFF    | 19.8       |
| 1.756500        | ---              | 27.73           | 46.00        | 18.27       | N    | OFF    | 19.8       |
| 1.756500        | 37.73            | ---             | 56.00        | 18.27       | N    | OFF    | 19.8       |
| 1.902750        | ---              | 27.22           | 46.00        | 18.78       | N    | OFF    | 19.8       |
| 1.902750        | 38.08            | ---             | 56.00        | 17.92       | N    | OFF    | 19.8       |
| 27.435750       | ---              | 26.21           | 50.00        | 23.79       | N    | OFF    | 20.9       |
| 27.435750       | 27.77            | ---             | 60.00        | 32.23       | N    | OFF    | 20.9       |



## **Appendix C. Radiated Spurious Emission**

|                        |                                   |                            |         |
|------------------------|-----------------------------------|----------------------------|---------|
| <b>Test Engineer :</b> | Andy Yang, Karl Hou and Steven Wu | <b>Temperature :</b>       | 18~23°C |
|                        |                                   | <b>Relative Humidity :</b> | 50~65%  |



&lt;Open Mode &gt;

## 2.4GHz 2400~2483.5MHz

## BLE (Band Edge @ 3m)

| BLE Ant                 | Note | Frequency | Level      | Margin | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-------------------------|------|-----------|------------|--------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
| 3                       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| BLE<br>CH 00<br>2402MHz |      | 2337.825  | 54.83      | -19.17 | 74         | 40.86      | 27.2           | 17.25     | 30.48         | 144     | 146       | P         | H     |
|                         |      | 2387.175  | 45.07      | -8.93  | 54         | 30.84      | 27.35          | 17.35     | 30.47         | 144     | 146       | A         | H     |
|                         | *    | 2402      | 113.12     | -      | -          | 98.79      | 27.41          | 17.38     | 30.46         | 144     | 146       | P         | H     |
|                         | *    | 2402      | 112.54     | -      | -          | 98.21      | 27.41          | 17.38     | 30.46         | 144     | 146       | A         | H     |
|                         |      |           |            |        |            |            |                |           |               |         |           |           | H     |
|                         |      |           |            |        |            |            |                |           |               |         |           |           | H     |
|                         |      | 2386.86   | 54.47      | -19.53 | 74         | 40.24      | 27.35          | 17.35     | 30.47         | 388     | 38        | P         | V     |
|                         |      | 2387.805  | 44.99      | -9.01  | 54         | 30.76      | 27.35          | 17.35     | 30.47         | 388     | 38        | A         | V     |
|                         | *    | 2402      | 109.07     | -      | -          | 94.74      | 27.41          | 17.38     | 30.46         | 388     | 38        | P         | V     |
|                         | *    | 2402      | 108.36     | -      | -          | 94.03      | 27.41          | 17.38     | 30.46         | 388     | 38        | A         | V     |
|                         |      |           |            |        |            |            |                |           |               |         |           |           | V     |
|                         |      |           |            |        |            |            |                |           |               |         |           |           | V     |
| BLE<br>CH 19<br>2440MHz |      | 2323.44   | 54.66      | -19.34 | 74         | 40.73      | 27.2           | 17.22     | 30.49         | 166     | 147       | P         | H     |
|                         |      | 2387.84   | 45.04      | -8.96  | 54         | 30.81      | 27.35          | 17.35     | 30.47         | 166     | 147       | A         | H     |
|                         | *    | 2440      | 114.96     | -      | -          | 100.33     | 27.64          | 17.44     | 30.45         | 166     | 147       | P         | H     |
|                         | *    | 2440      | 114.41     | -      | -          | 99.78      | 27.64          | 17.44     | 30.45         | 166     | 147       | A         | H     |
|                         |      | 2491.18   | 56.24      | -17.76 | 74         | 41.29      | 27.86          | 17.52     | 30.43         | 166     | 147       | P         | H     |
|                         |      | 2486.07   | 46.08      | -7.92  | 54         | 31.16      | 27.84          | 17.51     | 30.43         | 166     | 147       | A         | H     |
|                         |      | 2361.8    | 54.95      | -19.05 | 74         | 40.87      | 27.25          | 17.3      | 30.47         | 378     | 52        | P         | V     |
|                         |      | 2364.74   | 45.02      | -8.98  | 54         | 30.92      | 27.26          | 17.31     | 30.47         | 378     | 52        | A         | V     |
|                         | *    | 2440      | 112.62     | -      | -          | 97.99      | 27.64          | 17.44     | 30.45         | 378     | 52        | P         | V     |
|                         | *    | 2440      | 112.04     | -      | -          | 97.41      | 27.64          | 17.44     | 30.45         | 378     | 52        | A         | V     |
|                         |      | 2496.78   | 55.7       | -18.3  | 74         | 40.71      | 27.89          | 17.53     | 30.43         | 378     | 52        | P         | V     |
|                         |      | 2499.51   | 46.44      | -7.56  | 54         | 31.44      | 27.9           | 17.53     | 30.43         | 378     | 52        | A         | V     |

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|                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|----------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>BLE<br/>CH 39<br/>2480MHz</b> | *                                                                                           | 2480    | 114.56 | -      | -  | 99.68 | 27.82 | 17.5  | 30.44 | 100 | 143 | P | H |
|                                  | *                                                                                           | 2480    | 114    | -      | -  | 99.12 | 27.82 | 17.5  | 30.44 | 100 | 143 | A | H |
|                                  |                                                                                             | 2485.56 | 56.83  | -17.17 | 74 | 41.91 | 27.84 | 17.51 | 30.43 | 100 | 143 | P | H |
|                                  |                                                                                             | 2485.4  | 46.75  | -7.25  | 54 | 31.83 | 27.84 | 17.51 | 30.43 | 100 | 143 | A | H |
|                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                  | *                                                                                           | 2480    | 112.7  | -      | -  | 97.82 | 27.82 | 17.5  | 30.44 | 400 | 48  | P | V |
|                                  | *                                                                                           | 2480    | 112.05 | -      | -  | 97.17 | 27.82 | 17.5  | 30.44 | 400 | 48  | A | V |
|                                  |                                                                                             | 2487.12 | 56.48  | -17.52 | 74 | 41.55 | 27.85 | 17.51 | 30.43 | 400 | 48  | P | V |
|                                  |                                                                                             | 2483.56 | 46.16  | -7.84  | 54 | 31.26 | 27.83 | 17.51 | 30.44 | 400 | 48  | A | V |
|                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## BLE (Harmonic @ 3m)

| BLE<br>Ant<br>3         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE<br>CH 00<br>2402MHz |      | 4804                 | 40.17               | -33.83           | 74                          | 62.72                     | 32.32                         | 11.3                   | 66.17                      | 400                  | 0                       | P                       | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      | 4804                 | 40.97               | -33.03           | 74                          | 63.52                     | 32.32                         | 11.3                   | 66.17                      | 100                  | 0                       | P                       | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



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| BLE<br>Ant<br>3         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE<br>CH 19<br>2440MHz |      | 4880                 | 41.43               | -32.57           | 74                          | 63.48                     | 32.72                         | 11.35                  | 66.12                      | 400                  | 0                       | P                       | H               |
|                         |      | 7320                 | 44.48               | -29.52           | 74                          | 59.63                     | 37.08                         | 13.49                  | 65.72                      | 400                  | 0                       | P                       | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      | 4880                 | 40.85               | -33.15           | 74                          | 62.9                      | 32.72                         | 11.35                  | 66.12                      | 100                  | 0                       | P                       | V               |
|                         |      | 7320                 | 44.08               | -29.92           | 74                          | 59.23                     | 37.08                         | 13.49                  | 65.72                      | 100                  | 0                       | P                       | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



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| BLE<br>Ant<br>3         | Note                                                                                                                                                                                                                                   | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE<br>CH 39<br>2480MHz |                                                                                                                                                                                                                                        | 4960                 | 44.57               | -29.43           | 74                          | 66.1                      | 33.12                         | 11.41                  | 66.06                      | 400                  | 0                       | P                       | H               |
|                         |                                                                                                                                                                                                                                        | 7440                 | 44.06               | -29.94           | 74                          | 59.9                      | 36.46                         | 13.49                  | 65.79                      | 400                  | 0                       | P                       | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |                                                                                                                                                                                                                                        | 4960                 | 42.71               | -31.29           | 74                          | 64.24                     | 33.12                         | 11.41                  | 66.06                      | -                    | -                       | P                       | V               |
|                         |                                                                                                                                                                                                                                        | 7440                 | 44.03               | -29.97           | 74                          | 59.87                     | 36.46                         | 13.49                  | 65.79                      | -                    | -                       | P                       | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                         |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |

**2.4GHz 2400~2483.5MHz**
**BLE (Band Edge @ 3m)**

| BLE<br>Ant<br>4                  | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|----------------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>BLE<br/>CH 00<br/>2402MHz</b> |      | 2349.585             | 55.71               | -18.29           | 74                          | 41.72                     | 27.2                          | 17.27                  | 30.48                      | 142                  | 303                     | P                     | H             |
|                                  |      | 2375.73              | 45.39               | -8.61            | 54                          | 31.23                     | 27.3                          | 17.33                  | 30.47                      | 142                  | 303                     | A                     | H             |
|                                  | *    | 2402                 | 111.09              | -                | -                           | 96.76                     | 27.41                         | 17.38                  | 30.46                      | 142                  | 303                     | P                     | H             |
|                                  | *    | 2402                 | 110.47              | -                | -                           | 96.14                     | 27.41                         | 17.38                  | 30.46                      | 142                  | 303                     | A                     | H             |
|                                  |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                                  |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                                  |      | 2375.94              | 56.52               | -17.48           | 74                          | 42.36                     | 27.3                          | 17.33                  | 30.47                      | 384                  | 148                     | P                     | V             |
|                                  |      | 2386.965             | 45.28               | -8.72            | 54                          | 31.05                     | 27.35                         | 17.35                  | 30.47                      | 384                  | 148                     | A                     | V             |
|                                  | *    | 2402                 | 105.64              | -                | -                           | 91.31                     | 27.41                         | 17.38                  | 30.46                      | 384                  | 148                     | P                     | V             |
|                                  | *    | 2402                 | 104.96              | -                | -                           | 90.63                     | 27.41                         | 17.38                  | 30.46                      | 384                  | 148                     | A                     | V             |
|                                  |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                                  |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
| <b>BLE<br/>CH 19<br/>2440MHz</b> |      | 2342.9               | 55.08               | -18.92           | 74                          | 41.1                      | 27.2                          | 17.26                  | 30.48                      | 100                  | 302                     | P                     | H             |
|                                  |      | 2385.18              | 45.18               | -8.82            | 54                          | 30.96                     | 27.34                         | 17.35                  | 30.47                      | 100                  | 302                     | A                     | H             |
|                                  | *    | 2440                 | 113.62              | -                | -                           | 98.99                     | 27.64                         | 17.44                  | 30.45                      | 100                  | 302                     | P                     | H             |
|                                  | *    | 2440                 | 113                 | -                | -                           | 98.37                     | 27.64                         | 17.44                  | 30.45                      | 100                  | 302                     | A                     | H             |
|                                  |      | 2493.84              | 55.89               | -18.11           | 74                          | 40.92                     | 27.88                         | 17.52                  | 30.43                      | 100                  | 302                     | P                     | H             |
|                                  |      | 2491.11              | 46.41               | -7.59            | 54                          | 31.46                     | 27.86                         | 17.52                  | 30.43                      | 100                  | 302                     | A                     | H             |
|                                  |      | 2384.9               | 54.87               | -19.13           | 74                          | 40.65                     | 27.34                         | 17.35                  | 30.47                      | 374                  | 146                     | P                     | V             |
|                                  |      | 2387.42              | 45.23               | -8.77            | 54                          | 31                        | 27.35                         | 17.35                  | 30.47                      | 374                  | 146                     | A                     | V             |
|                                  | *    | 2440                 | 108.23              | -                | -                           | 93.6                      | 27.64                         | 17.44                  | 30.45                      | 374                  | 146                     | P                     | V             |
|                                  | *    | 2440                 | 107.66              | -                | -                           | 93.03                     | 27.64                         | 17.44                  | 30.45                      | 374                  | 146                     | A                     | V             |
|                                  |      | 2498.18              | 56.47               | -17.53           | 74                          | 41.48                     | 27.89                         | 17.53                  | 30.43                      | 374                  | 146                     | P                     | V             |
|                                  |      | 2483.5               | 45.87               | -8.13            | 54                          | 30.97                     | 27.83                         | 17.51                  | 30.44                      | 374                  | 146                     | A                     | V             |



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|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| BLE<br>CH 39<br>2480MHz | *                                                                                           | 2480    | 113.33 | -      | -  | 98.45 | 27.82 | 17.5  | 30.44 | 100 | 305 | P | H |
|                         | *                                                                                           | 2480    | 112.75 | -      | -  | 97.87 | 27.82 | 17.5  | 30.44 | 100 | 305 | A | H |
|                         |                                                                                             | 2488.4  | 55.35  | -18.65 | 74 | 40.42 | 27.85 | 17.51 | 30.43 | 100 | 305 | P | H |
|                         |                                                                                             | 2483.72 | 46.42  | -7.58  | 54 | 31.52 | 27.83 | 17.51 | 30.44 | 100 | 305 | A | H |
|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                         | *                                                                                           | 2480    | 109.6  | -      | -  | 94.72 | 27.82 | 17.5  | 30.44 | 400 | 163 | P | V |
|                         | *                                                                                           | 2480    | 109.04 | -      | -  | 94.16 | 27.82 | 17.5  | 30.44 | 400 | 163 | A | V |
|                         |                                                                                             | 2489.28 | 56.57  | -17.43 | 74 | 41.63 | 27.86 | 17.51 | 30.43 | 400 | 163 | P | V |
|                         |                                                                                             | 2484    | 46.08  | -7.92  | 54 | 31.17 | 27.84 | 17.51 | 30.44 | 400 | 163 | A | V |
|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |

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

| BLE<br>Ant<br>4         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| BLE<br>CH 00<br>2402MHz |      | 4804                 | 45.12               | -28.88           | 74                          | 67.67                     | 32.32                         | 11.3                   | 66.17                      | -                    | -                       | P                     | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                         |      | 4804                 | 44.18               | -29.82           | 74                          | 66.73                     | 32.32                         | 11.3                   | 66.17                      | -                    | -                       | P                     | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                       | V             |



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| BLE<br>Ant<br>4         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE<br>CH 19<br>2440MHz |      | 4880                 | 46.04               | -27.96           | 74                          | 68.09                     | 32.72                         | 11.35                  | 66.12                      | -                    | -                       | P                       | H               |
|                         |      | 7320                 | 45.22               | -28.78           | 74                          | 60.37                     | 37.08                         | 13.49                  | 65.72                      | -                    | -                       | P                       | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      | 4880                 | 44.79               | -29.21           | 74                          | 66.84                     | 32.72                         | 11.35                  | 66.12                      | -                    | -                       | P                       | V               |
|                         |      | 7320                 | 45.64               | -28.36           | 74                          | 60.79                     | 37.08                         | 13.49                  | 65.72                      | -                    | -                       | P                       | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |





## 2.4GHz 2400~2483.5MHz

## BLE (Band Edge @ 3m)

| BLE                     | Note | Frequency | Level      | Margin | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant                     |      |           |            |        | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 3+4                     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| BLE<br>CH 00<br>2402MHz |      | 2351.16   | 55.04      | -18.96 | 74         | 41.04    | 27.2     | 17.28  | 30.48  | 144    | 153     | P     | H     |
|                         |      | 2370.06   | 46.02      | -7.98  | 54         | 31.89    | 27.28    | 17.32  | 30.47  | 144    | 153     | A     | H     |
|                         | *    | 2402      | 113.22     | -      | -          | 98.89    | 27.41    | 17.38  | 30.46  | 144    | 153     | P     | H     |
|                         | *    | 2402      | 112.39     | -      | -          | 98.06    | 27.41    | 17.38  | 30.46  | 144    | 153     | A     | H     |
|                         |      |           |            |        |            |          |          |        |        |        |         |       | H     |
|                         |      |           |            |        |            |          |          |        |        |        |         |       | H     |
|                         |      | 2378.88   | 55.05      | -18.95 | 74         | 40.86    | 27.32    | 17.34  | 30.47  | 388    | 64      | P     | V     |
|                         |      | 2383.71   | 46.05      | -7.95  | 54         | 31.84    | 27.33    | 17.35  | 30.47  | 388    | 64      | A     | V     |
|                         | *    | 2402      | 110.01     | -      | -          | 95.68    | 27.41    | 17.38  | 30.46  | 388    | 64      | P     | V     |
|                         | *    | 2402      | 109.34     | -      | -          | 95.01    | 27.41    | 17.38  | 30.46  | 388    | 64      | A     | V     |
|                         |      |           |            |        |            |          |          |        |        |        |         |       | V     |
|                         |      |           |            |        |            |          |          |        |        |        |         |       | V     |
| BLE<br>CH 19<br>2440MHz |      | 2384.62   | 55.08      | -18.92 | 74         | 40.86    | 27.34    | 17.35  | 30.47  | 165    | 151     | P     | H     |
|                         |      | 2379.3    | 46         | -8     | 54         | 31.81    | 27.32    | 17.34  | 30.47  | 165    | 151     | A     | H     |
|                         | *    | 2440      | 114.07     | -      | -          | 99.44    | 27.64    | 17.44  | 30.45  | 165    | 151     | P     | H     |
|                         | *    | 2440      | 113.45     | -      | -          | 98.82    | 27.64    | 17.44  | 30.45  | 165    | 151     | A     | H     |
|                         |      | 2496.78   | 56.7       | -17.3  | 74         | 41.71    | 27.89    | 17.53  | 30.43  | 165    | 151     | P     | H     |
|                         |      | 2484.81   | 46.9       | -7.1   | 54         | 31.98    | 27.84    | 17.51  | 30.43  | 165    | 151     | A     | H     |
|                         |      | 2353.26   | 55.5       | -18.5  | 74         | 41.49    | 27.21    | 17.28  | 30.48  | 374    | 51      | P     | V     |
|                         |      | 2383.36   | 46.13      | -7.87  | 54         | 31.92    | 27.33    | 17.35  | 30.47  | 374    | 51      | A     | V     |
|                         | *    | 2440      | 112.1      | -      | -          | 97.47    | 27.64    | 17.44  | 30.45  | 374    | 51      | P     | V     |
|                         | *    | 2440      | 111.54     | -      | -          | 96.91    | 27.64    | 17.44  | 30.45  | 374    | 51      | A     | V     |
|                         |      | 2485.16   | 56.32      | -17.68 | 74         | 41.4     | 27.84    | 17.51  | 30.43  | 374    | 51      | P     | V     |
|                         |      | 2494.54   | 46.8       | -7.2   | 54         | 31.83    | 27.88    | 17.52  | 30.43  | 374    | 51      | A     | V     |



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|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| BLE<br>CH 39<br>2480MHz | *                                                                                           | 2480    | 113.47 | -      | -  | 98.59 | 27.82 | 17.5  | 30.44 | 163 | 147 | P | H |
|                         | *                                                                                           | 2480    | 112.71 | -      | -  | 97.83 | 27.82 | 17.5  | 30.44 | 163 | 147 | A | H |
|                         |                                                                                             | 2483.56 | 56.8   | -17.2  | 74 | 41.9  | 27.83 | 17.51 | 30.44 | 163 | 147 | P | H |
|                         |                                                                                             | 2483.56 | 47.02  | -6.98  | 54 | 32.12 | 27.83 | 17.51 | 30.44 | 163 | 147 | A | H |
|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                         | *                                                                                           | 2480    | 111.61 | -      | -  | 96.73 | 27.82 | 17.5  | 30.44 | 367 | 46  | P | V |
|                         | *                                                                                           | 2480    | 110.97 | -      | -  | 96.09 | 27.82 | 17.5  | 30.44 | 367 | 46  | A | V |
|                         |                                                                                             | 2493.4  | 56.09  | -17.91 | 74 | 41.13 | 27.87 | 17.52 | 30.43 | 367 | 46  | P | V |
|                         |                                                                                             | 2485.6  | 46.92  | -7.08  | 54 | 32    | 27.84 | 17.51 | 30.43 | 367 | 46  | A | V |
|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                         |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |

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

| BLE<br>Ant<br>3+4       | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE<br>CH 00<br>2402MHz |      | 4804                 | 39.44               | -34.56           | 74                          | 61.99                     | 32.32                         | 11.3                   | 66.17                      | -                    | -                       | P                       | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      | 4804                 | 41                  | -33              | 74                          | 63.55                     | 32.32                         | 11.3                   | 66.17                      | -                    | -                       | P                       | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |



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| BLE<br>Ant<br>3+4       | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE<br>CH 19<br>2440MHz |      | 4880                 | 42.4                | -31.6            | 74                          | 64.45                     | 32.72                         | 11.35                  | 66.12                      | -                    | -                       | P                       | H               |
|                         |      | 7320                 | 44.28               | -29.72           | 74                          | 59.43                     | 37.08                         | 13.49                  | 65.72                      | -                    | -                       | P                       | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                         |      | 4880                 | 40.08               | -33.92           | 74                          | 62.13                     | 32.72                         | 11.35                  | 66.12                      | -                    | -                       | P                       | V               |
|                         |      | 7320                 | 44.17               | -29.83           | 74                          | 59.32                     | 37.08                         | 13.49                  | 65.72                      | -                    | -                       | P                       | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                         |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |

| BLE<br>Ant<br>3+4       | Note | Frequency<br><br>( MHz ) | Level<br><br>( dBμV/m ) | Margin<br><br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br><br>(H/V) |
|-------------------------|------|--------------------------|-------------------------|----------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|-------------------|
| BLE<br>CH 39<br>2480MHz |      | 4960                     | 42.61                   | -31.39               | 74                          | 64.14                     | 33.12                         | 11.41                  | 66.06                      | -                    | -                       | P                     | H                 |
|                         |      | 7440                     | 43.8                    | -30.2                | 74                          | 59.64                     | 36.46                         | 13.49                  | 65.79                      | -                    | -                       | P                     | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                         |      | 4960                     | 41.39                   | -32.61               | 74                          | 62.92                     | 33.12                         | 11.41                  | 66.06                      | -                    | -                       | P                     | V                 |
|                         |      | 7440                     | 43                      | -31                  | 74                          | 58.84                     | 36.46                         | 13.49                  | 65.79                      | -                    | -                       | P                     | V                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         | V                     |                   |
|                         |      |                          |                         |                      |                             |                           |                               |                        |                            |                      |                         |                       |                   |



## Emission above 18GHz

## 2.4GHz BLE (SHF)

| BLE                  | Note                                                                                                                                                                                                                  | Frequency | Level      | Margin | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant                  |                                                                                                                                                                                                                       |           |            |        | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 3+4                  |                                                                                                                                                                                                                       | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>BLE<br>SHF |                                                                                                                                                                                                                       | 19864     | 39.46      | -34.54 | 74         | 59.61  | 37.69    | -2.89  | 54.95  | -      | -       | P     | H     |
|                      |                                                                                                                                                                                                                       | 33672     | 43.17      | -45.03 | 88.2       | 61.24  | 40.89    | -1.25  | 57.71  | -      | -       | P     | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                      |                                                                                                                                                                                                                       | 23224     | 41.79      | -46.41 | 88.2       | 59.89  | 38.8     | -2.68  | 54.22  | -      | -       | P     | V     |
|                      |                                                                                                                                                                                                                       | 34876     | 47         | -41.2  | 88.2       | 64.99  | 41.55    | -0.99  | 58.55  | -      | -       | P     | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                      |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark               | 1. No other spurious found.<br>2. All results are PASS against limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |

## Emission below 1GHz

## 2.4GHz BLE (LF)

| BLE                         | Note                                                                                                                                                               | Frequency | Level      | Margin | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant                         |                                                                                                                                                                    |           |            |        | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 3+4                         |                                                                                                                                                                    | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br><br>BLE<br><br>LF |                                                                                                                                                                    | 31.62     | 21.97      | -18.03 | 40         | 29.96  | 23.64    | 0.56   | 32.19  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 94.8      | 29.94      | -13.56 | 43.5       | 45.52  | 15.18    | 1.5    | 32.26  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 272.19    | 21.18      | -24.82 | 46         | 32.1   | 18.9     | 2.52   | 32.34  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 489.7     | 25.53      | -20.47 | 46         | 30.94  | 23.73    | 3.39   | 32.53  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 690.6     | 28.16      | -17.84 | 46         | 30.62  | 26.06    | 4.05   | 32.57  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    | 943.3     | 33.66      | -12.34 | 46         | 30.24  | 30.02    | 4.79   | 31.39  | -      | -       | P     | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |                                                                                                                                                                    | 72.93     | 25.83      | -14.17 | 40         | 44.37  | 12.48    | 1.26   | 32.28  | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 169.32    | 27.28      | -16.22 | 43.5       | 41.88  | 15.68    | 2.02   | 32.3   | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 282.72    | 20.39      | -25.61 | 46         | 31.16  | 18.99    | 2.57   | 32.33  | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 457.5     | 25.57      | -20.43 | 46         | 31.53  | 23.21    | 3.31   | 32.48  | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 661.2     | 28.16      | -17.84 | 46         | 30.83  | 25.95    | 3.98   | 32.6   | -      | -       | P     | V     |
|                             |                                                                                                                                                                    | 950.3     | 33.4       | -12.6  | 46         | 29.78  | 30.16    | 4.8    | 31.34  | -      | -       | P     | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                      | 1. No other spurious found.                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       |       |
|                             | 2. All results are PASS against limit line.                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       |       |
|                             | 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |
|                             |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       |       |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>P</b> eak or <b>A</b> verage                                                                                                                          |
| H/V | <b>H</b> orizontal or <b>V</b> ertical                                                                                                                   |

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

| BLE                     | Note | Frequency | Level      | Margin | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| ANT                     |      |           |            |        | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 3+4                     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| BLE<br>CH 00<br>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. Margin(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. Margin(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. Margin(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 D. Radiated Spurious Emission Plots**

|                        |                                   |                            |         |
|------------------------|-----------------------------------|----------------------------|---------|
| <b>Test Engineer :</b> | Andy Yang, Karl Hou and Steven Wu | <b>Temperature :</b>       | 18~23°C |
|                        |                                   | <b>Relative Humidity :</b> | 50~65%  |

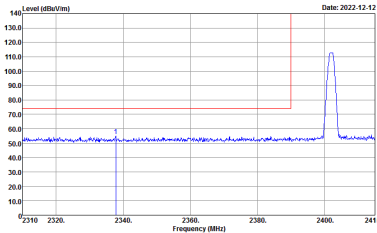
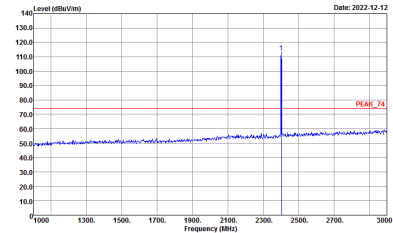
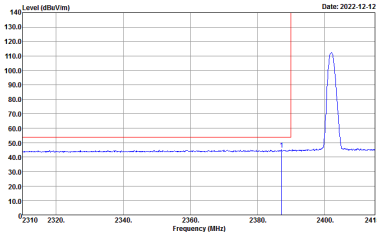
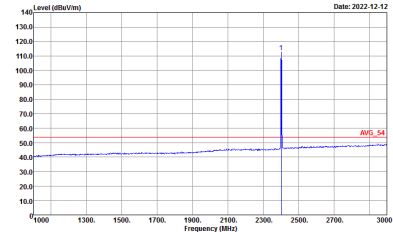
### **Note symbol**

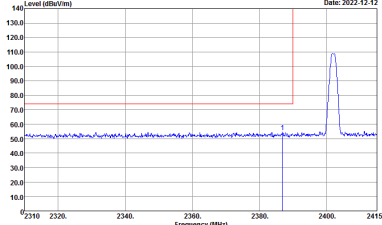
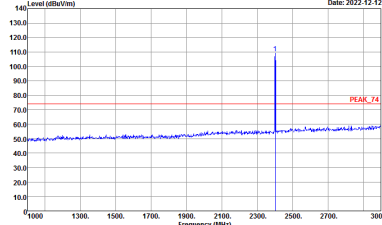
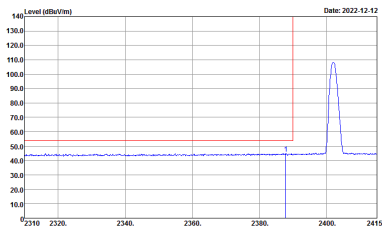
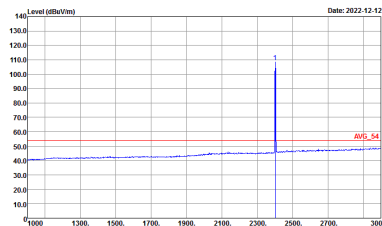
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

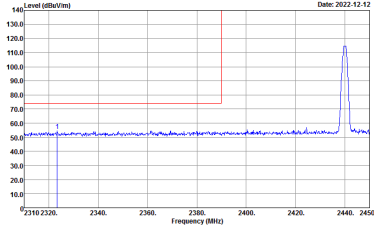
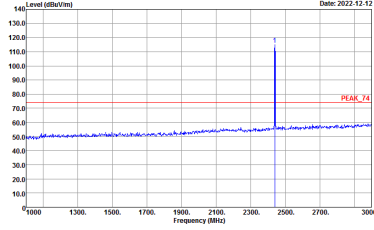
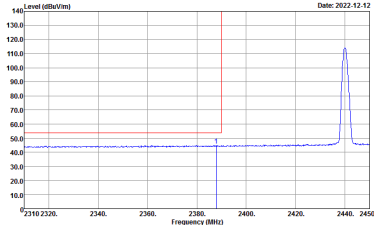
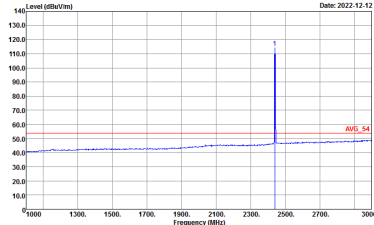
<Open Mode>

**2.4GHz 2400~2483.5MHz**

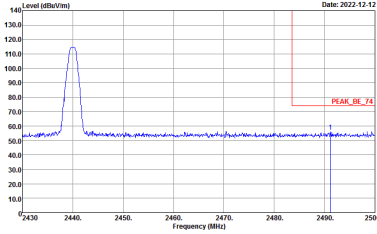
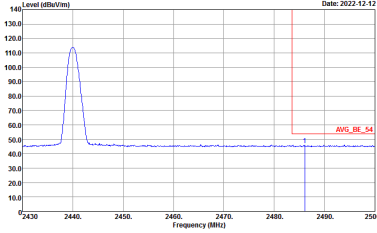
**BLE (Band Edge @ 3m)**

| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH00 2402MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                   |
| 3    | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |

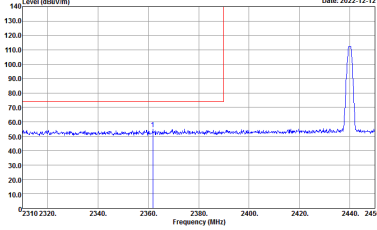
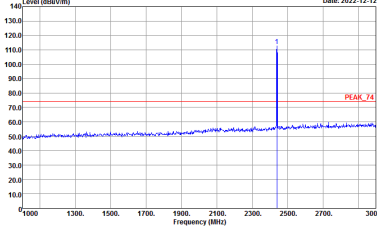
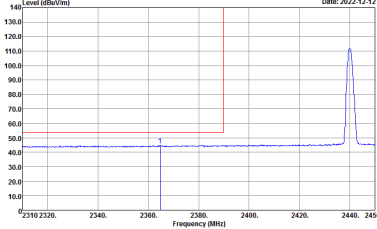
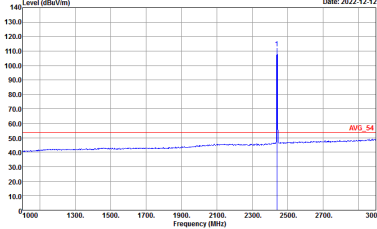
| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                               |                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH00 2402MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                  |
| 3    | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |
|      |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  |                                                                                                                                                                                                                    |                                                                                                                                                                                                                  |

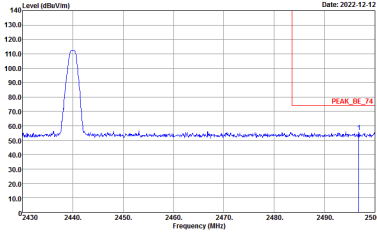
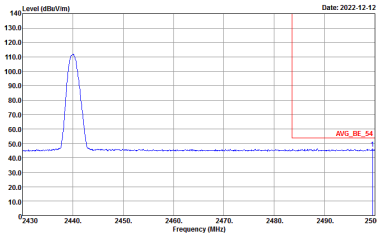
| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                  |                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH19 2440MHz - L                                                                                                                                                  |                                                                                                                                                                     |
| 3    | Horizontal                                                                                                                                                            | Fundamental                                                                                                                                                         |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL</p>  |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL</p>  |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL</p> |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL</p> |



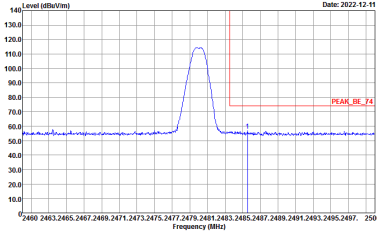
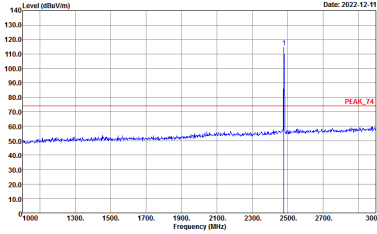
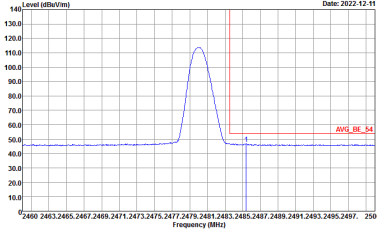
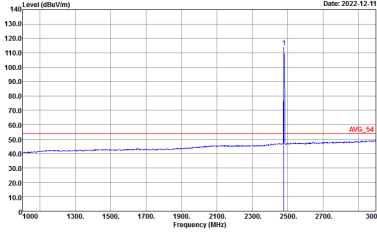
| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                  |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | BLE CH19 2440MHz - R                                                                                                                                                  |             |
| 3    | Horizontal                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL</p> | Left blank  |

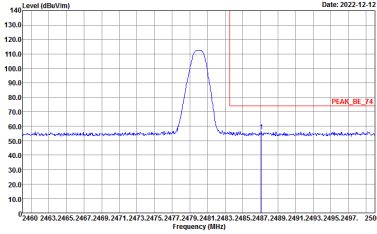
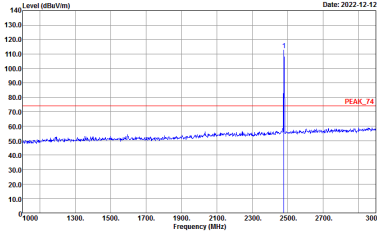
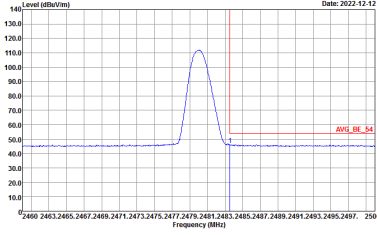
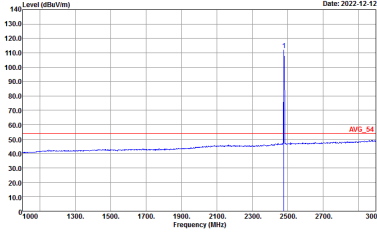


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                          |                                                                                                                                                                             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH19 2440MHz - L                                                                                                                                                          |                                                                                                                                                                             |
| 3    | Vertical                                                                                                                                                                      | Fundamental                                                                                                                                                                 |
| Peak | <div><p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL</p></div>  | <div><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL</p></div>  |
| Avg. | <div><p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL</p></div> | <div><p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL</p></div> |

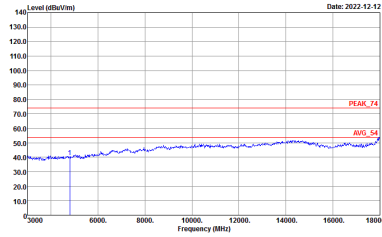
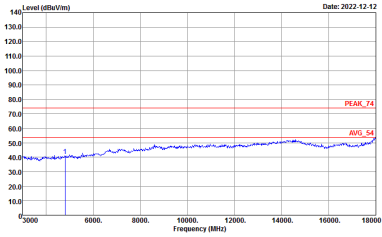
| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | BLE CH19 2440MHz - R                                                                                                                                                |             |
| 3    | Vertical                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL</p>  | Left blank  |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL</p> | Left blank  |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH39 2480MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                   |
| 3    | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |

| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                             |                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH39 2480MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                |
| 3    | Vertical                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |
|      |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |                                                                                                                                                                                                                  |                                                                                                                                                                                                                |

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

| BLE                        | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                        | BLE CH00 2402MHz                                                                                                                                                  |                                                                                                                                                                  |
| 3                          | Horizontal                                                                                                                                                        | Vertical                                                                                                                                                         |
| <b>Peak</b><br><b>Avg.</b> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL</p> |
|                            |                                                                                                                                                                   |                                                                                                                                                                  |

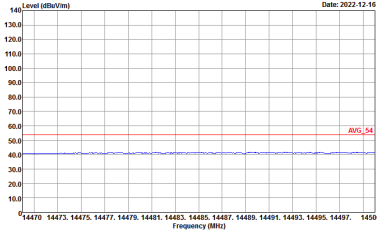
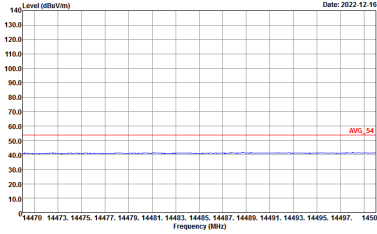
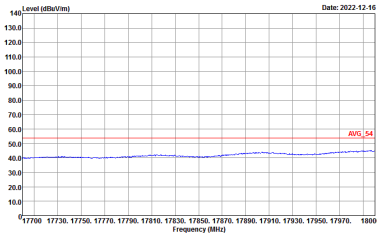
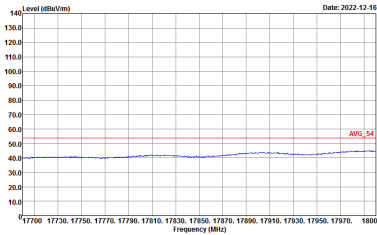


| BLE                               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                            |                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| ANT                               | BLE CH00 2402MHz                                                               |                                                                              |
| 3                                 | Horizontal                                                                     | Vertical                                                                     |
| <b>14.47G<br/>~14.5G<br/>Avg.</b> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |
|                                   | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |



|              |                                                                                                                               |                                                                                                                             |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| BLE          | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                           |                                                                                                                             |
| ANT          | BLE CH19 2440MHz                                                                                                              |                                                                                                                             |
| 3            | Horizontal                                                                                                                    | Vertical                                                                                                                    |
| Peak<br>Avg. | <p>Level (dBuV/m)</p> <p>Date: 2022-12-12</p> <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m)</p> <p>Date: 2022-12-12</p> <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 VERTICAL</p> |



| BLE                               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                |                                                                                                                                                                   |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                               | BLE CH19 2440MHz                                                                                                                                                   |                                                                                                                                                                   |
| 3                                 | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| <b>14.47G<br/>~14.5G<br/>Avg.</b> |  <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>   |  <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>   |
|                                   |  <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> |  <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |



|      |                                                                                                                                        |                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| BLE  | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                    |                                                                                                                                      |
| ANT  | BLE CH39 2480MHz                                                                                                                       |                                                                                                                                      |
| 3    | Horizontal                                                                                                                             | Vertical                                                                                                                             |
| Peak | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-12</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 HORIZONTAL</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-12</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 VERTICAL</p></div> |

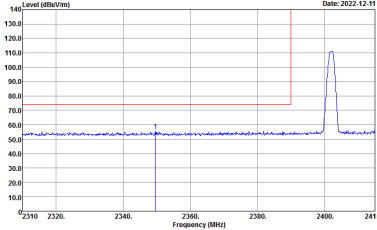
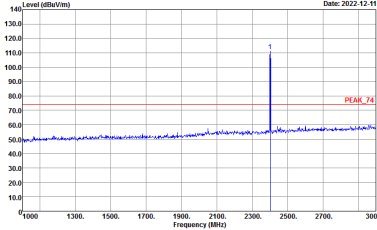
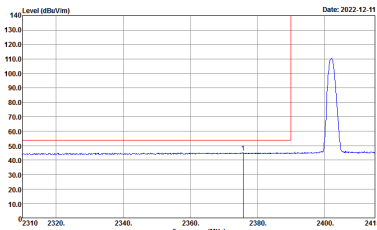
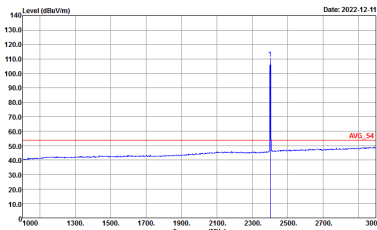


| BLE                               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                            |                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| ANT                               | BLE CH39 2480MHz                                                               |                                                                              |
| 3                                 | Horizontal                                                                     | Vertical                                                                     |
| <b>14.47G<br/>~14.5G<br/>Avg.</b> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |
|                                   | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |

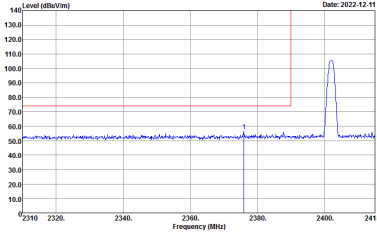
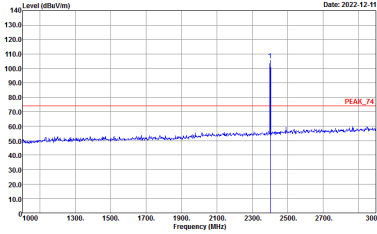
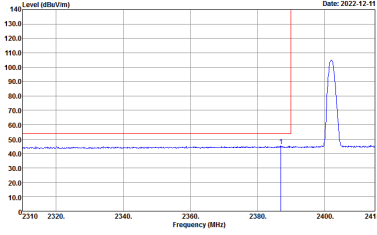
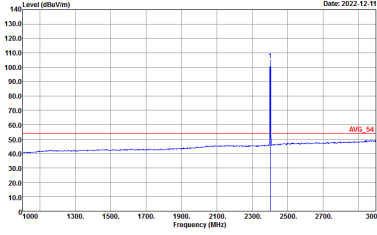


## 2.4GHz 2400~2483.5MHz

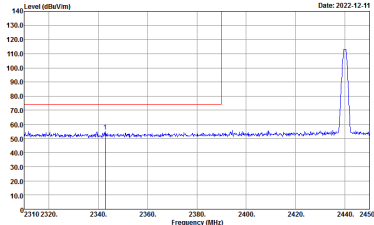
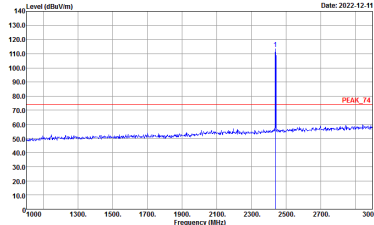
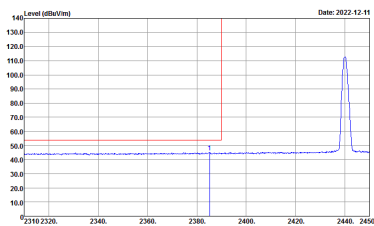
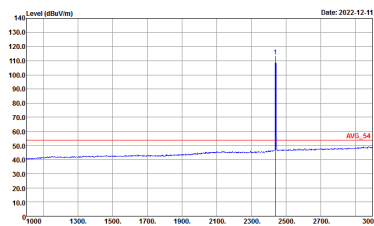
## BLE (Band Edge @ 3m)

| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH00 2402MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                   |
| 4    | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |
| Avg. |                                                                                                                                                                                                                     |                                                                                                                                                                                                                   |

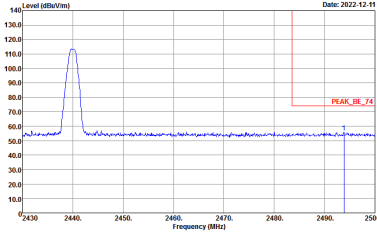
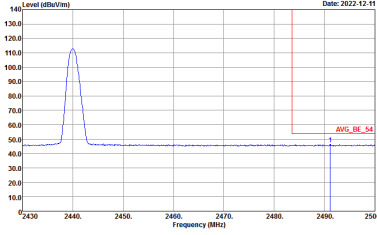


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                               |                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH00 2402MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                  |
| 4    | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>  |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>  |
|      |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg  |                                                                                                                                                                                                                    |                                                                                                                                                                                                                  |

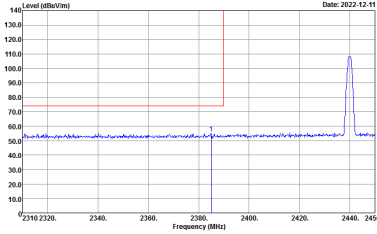
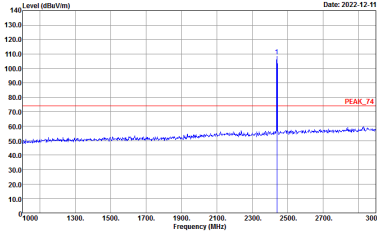
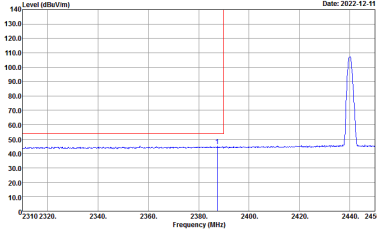
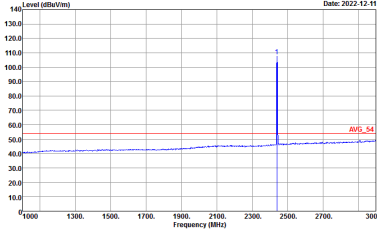


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH19 2440MHz - L                                                                                                                                                                                                 |                                                                                                                                                                                                                    |
| 4    | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |

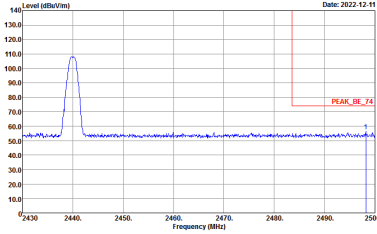
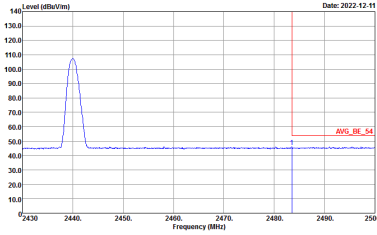


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | BLE CH19 2440MHz - R                                                                                                                                                                                                |             |
| 4    | Horizontal                                                                                                                                                                                                          | Fundamental |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank  |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   | Left blank  |

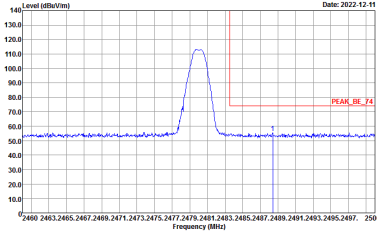
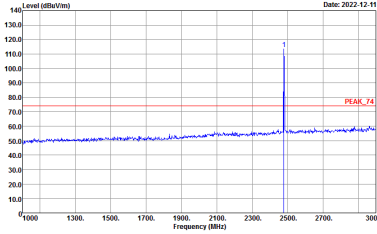
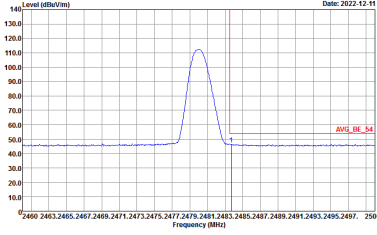
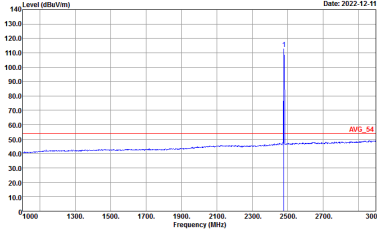


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                         |                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH19 2440MHz - L                                                                                                                                                                                                         |                                                                                                                                                                                                                            |
| 4    | Vertical                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div>  | <div><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div>  |
| Avg. | <div><p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | <div><p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> |

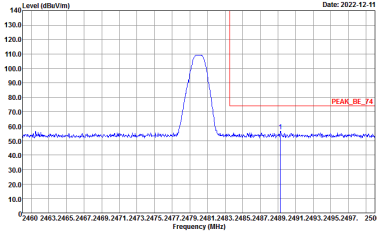
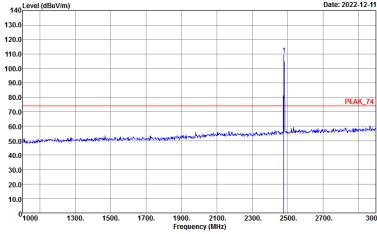
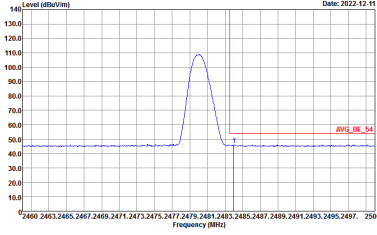
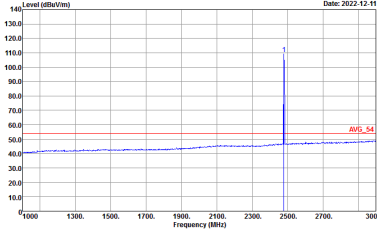


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                        |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | BLE CH19 2440MHz - R                                                                                                                                                                                                        |             |
| 4    | Vertical                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p></div>   | Left blank  |

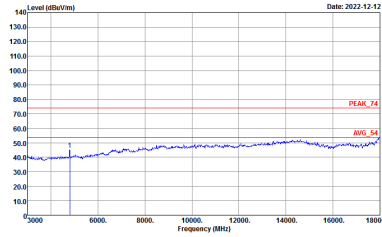
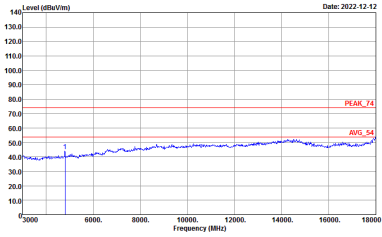


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH39 2480MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                   |
| 4    | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH39 2480MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                 |
| 4    | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |

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

| BLE                            | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                               |                                                                                                                                                                  |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | BLE CH00 2402MHz                                                                                                                                                  |                                                                                                                                                                  |
| 4                              | Horizontal                                                                                                                                                        | Vertical                                                                                                                                                         |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL</p> |
|                                |                                                                                                                                                                   |                                                                                                                                                                  |

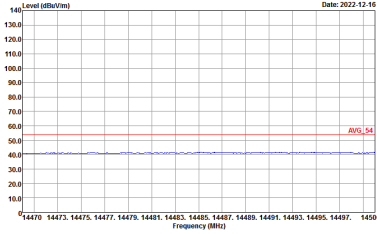
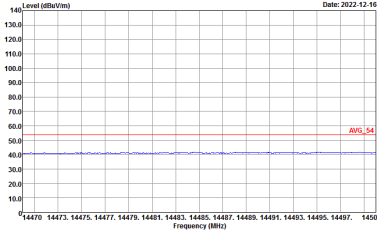
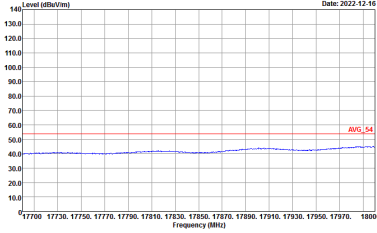
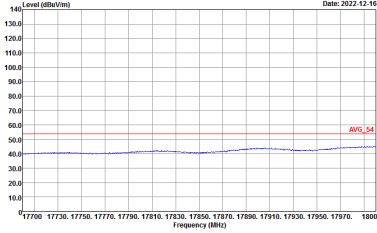


| BLE                               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                               | BLE CH00 2402MHz                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                           |
| 4                                 | Horizontal                                                                                                                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                                                                                                                  |
| <b>14.47G<br/>~14.5G<br/>Avg.</b> | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 14470 to 14500 MHz. A blue line shows the spectrum, and a red line indicates the average level at approximately 55 dBuV/m. The plot is dated 2022-12-16.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 14470 to 14500 MHz. A blue line shows the spectrum, and a red line indicates the average level at approximately 55 dBuV/m. The plot is dated 2022-12-16.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |
|                                   | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 17700 to 18000 MHz. A blue line shows the spectrum, and a red line indicates the average level at approximately 55 dBuV/m. The plot is dated 2022-12-16.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 17700 to 18000 MHz. A blue line shows the spectrum, and a red line indicates the average level at approximately 55 dBuV/m. The plot is dated 2022-12-16.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |



|              |                                                                                                                                        |                                                                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| BLE          | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                    |                                                                                                                                      |
| ANT          | BLE CH19 2440MHz                                                                                                                       |                                                                                                                                      |
| 4            | Horizontal                                                                                                                             | Vertical                                                                                                                             |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-12</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 HORIZONTAL</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-12</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 VERTICAL</p></div> |



| BLE                               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                |                                                                                                                                                                   |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                               | BLE CH19 2440MHz                                                                                                                                                   |                                                                                                                                                                   |
| 4                                 | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                          |
| <b>14.47G<br/>~14.5G<br/>Avg.</b> |  <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p>   |  <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p>   |
|                                   |  <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> |  <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |

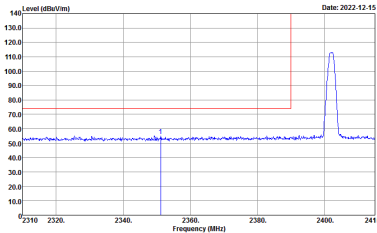
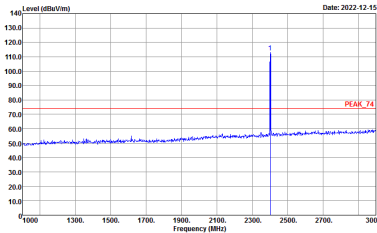
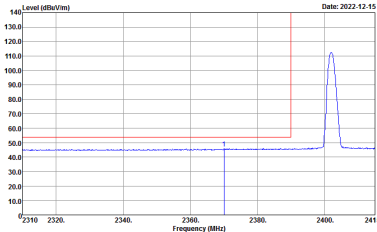
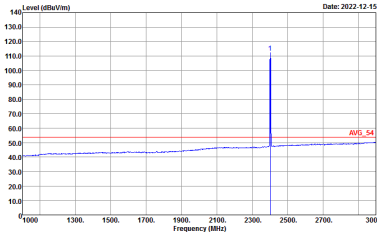


|      |                                                                                                                                        |                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| BLE  | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                    |                                                                                                                                      |
| ANT  | BLE CH39 2480MHz                                                                                                                       |                                                                                                                                      |
| 4    | Horizontal                                                                                                                             | Vertical                                                                                                                             |
| Peak | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-12</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 HORIZONTAL</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-12</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 VERTICAL</p></div> |

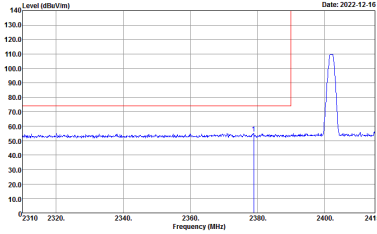
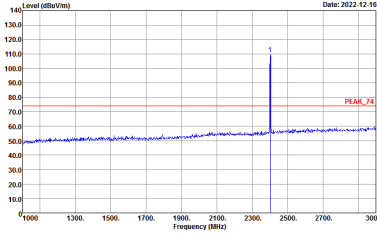
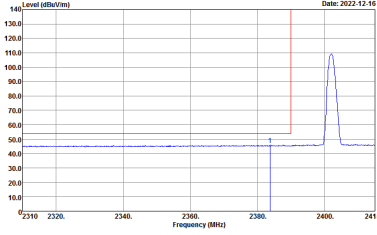
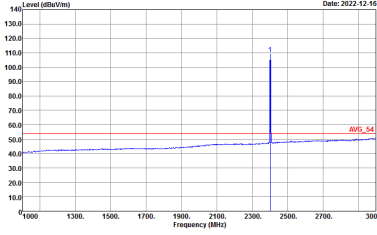


| BLE                      | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | BLE CH39 2480MHz                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                           |
| 4                        | Horizontal                                                                                                                                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                                                                                                                                  |
| 14.47G<br>~14.5G<br>Avg. | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 14470 to 14500 MHz. A blue line shows the measured signal, and a red line indicates the limit at approximately 55 dBuV/m. The text 'AVG_54' is visible in the plot area.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 9120D_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 14470 to 14500 MHz. A blue line shows the measured signal, and a red line indicates the limit at approximately 55 dBuV/m. The text 'AVG_54' is visible in the plot area.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 9120D_1522_220310 VERTICAL</p> |
|                          | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 17700 to 18000 MHz. A blue line shows the measured signal, and a red line indicates the limit at approximately 55 dBuV/m. The text 'AVG_54' is visible in the plot area.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 9120D_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 17700 to 18000 MHz. A blue line shows the measured signal, and a red line indicates the limit at approximately 55 dBuV/m. The text 'AVG_54' is visible in the plot area.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 9120D_1522_220310 VERTICAL</p> |

**2.4GHz 2400~2483.5MHz**
**BLE (Band Edge @ 3m)**

| BLE         | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | BLE CH00 2402MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                 |
| 3+4         | Horizontal                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                     |
| <b>Peak</b> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|             |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |

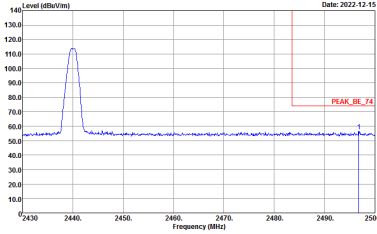
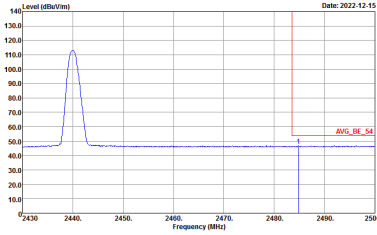


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                               |                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH00 2402MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                  |
| 3+4  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |
|      |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg  |                                                                                                                                                                                                                    |                                                                                                                                                                                                                  |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                              |                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH19 2440MHz - L                                                                                                              |                                                                                                                                |
| 3+4  | Horizontal                                                                                                                        | Fundamental                                                                                                                    |
| Peak | <p>Site : 03CH16-HV<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH16-HV<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH16-HV<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  | <p>Site : 03CH16-HV<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |

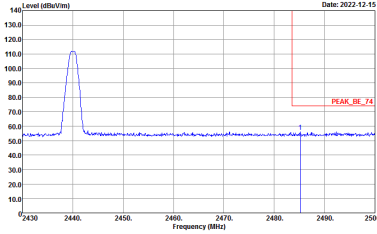
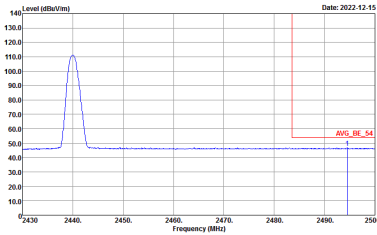


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | BLE CH19 2440MHz - R                                                                                                                                                                                                |             |
| 3+4  | Horizontal                                                                                                                                                                                                          | Fundamental |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank  |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   | Left blank  |

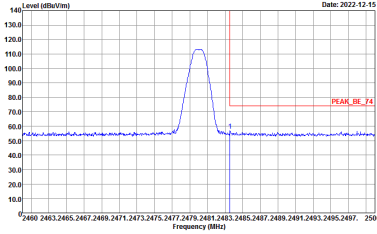
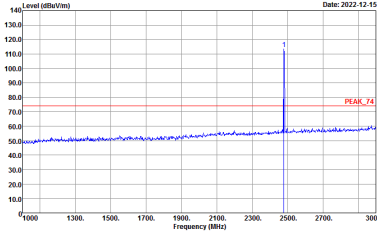
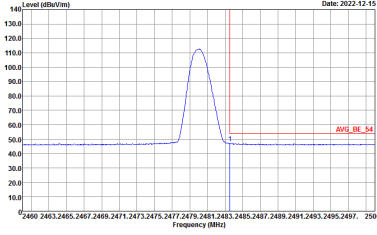
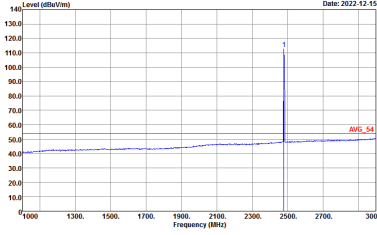


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                            |                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH19 2440MHz - L                                                                                                            |                                                                                                                              |
| 3+4  | Vertical                                                                                                                        | Fundamental                                                                                                                  |
| Peak | <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  | <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |

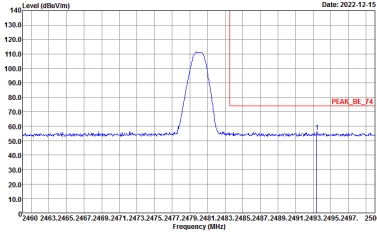
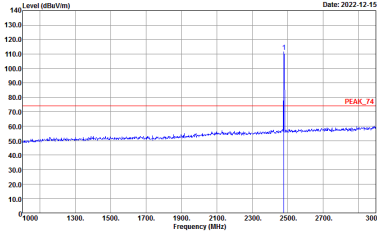
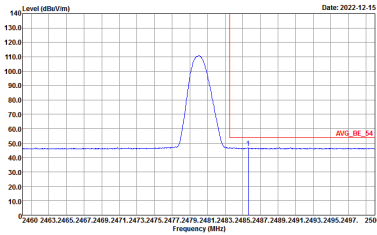
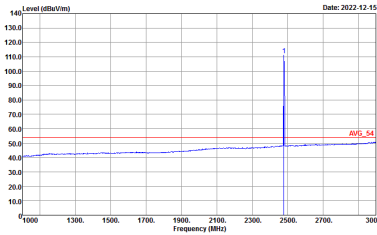


| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | BLE CH19 2440MHz - R                                                                                                                                                                                              |             |
| 3+4  | Vertical                                                                                                                                                                                                          | Fundamental |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank  |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   | Left blank  |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH39 2480MHz                                                                                                                                                                                                     |                                                                                                                                                                                                                    |
| 3+4  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>  |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |



| BLE  | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                            |                                                                                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | BLE CH39 2480MHz                                                                                                                                                                                                |                                                                                                                                                                                                               |
| 3+4  | Vertical                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH16-HY<br/>Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH16-HY<br/>Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |  <p>Site : 03CH16-HY<br/>Condition : AVG_54 3m 91200_1522_220310 VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>   |



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

|              |                                                                                                                                        |                                                                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| BLE          | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                    |                                                                                                                                      |
| ANT          | BLE CH00 2402MHz                                                                                                                       |                                                                                                                                      |
| 3+4          | Horizontal                                                                                                                             | Vertical                                                                                                                             |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-16</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-16</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL</p></div> |



| BLE                               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                               | BLE CH00 2402MHz                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                             |
| 3+4                               | Horizontal                                                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                                                    |
| <b>14.47G<br/>~14.5G<br/>Avg.</b> | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 14470 to 14500 MHz. A blue line shows the signal level, and a red line indicates the limit. The signal is below the limit.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 14470 to 14500 MHz. A blue line shows the signal level, and a red line indicates the limit. The signal is below the limit.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |
|                                   | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 17700 to 18000 MHz. A blue line shows the signal level, and a red line indicates the limit. The signal is below the limit.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 17700 to 18000 MHz. A blue line shows the signal level, and a red line indicates the limit. The signal is below the limit.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |



|              |                                                                                                                                        |                                                                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| BLE          | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                    |                                                                                                                                      |
| ANT          | BLE CH19 2440MHz                                                                                                                       |                                                                                                                                      |
| 3+4          | Horizontal                                                                                                                             | Vertical                                                                                                                             |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-16</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 HORIZONTAL</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-16</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 9120D_1522_220310 VERTICAL</p></div> |



| BLE                               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                               | BLE CH19 2440MHz                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                      |
| 3+4                               | Horizontal                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                             |
| <b>14.47G<br/>~14.5G<br/>Avg.</b> | <p>Level (dBuV/m) vs Frequency (MHz) from 14470 to 14500. The plot shows a flat line at approximately 40 dBuV/m. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2022-12-16.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) from 14470 to 14500. The plot shows a flat line at approximately 40 dBuV/m. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2022-12-16.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |
|                                   | <p>Level (dBuV/m) vs Frequency (MHz) from 17700 to 18000. The plot shows a flat line at approximately 40 dBuV/m. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2022-12-16.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) from 17700 to 18000. The plot shows a flat line at approximately 40 dBuV/m. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2022-12-16.</p> <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |



|      |                                                                                                                                        |                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| BLE  | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                    |                                                                                                                                      |
| ANT  | BLE CH39 2480MHz                                                                                                                       |                                                                                                                                      |
| 3+4  | Horizontal                                                                                                                             | Vertical                                                                                                                             |
| Peak | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-16</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2022-12-16</p><p>Site : 03CH16-HY<br/>Condition : PEAK_74 3m 91200_1522_220310 VERTICAL</p></div> |

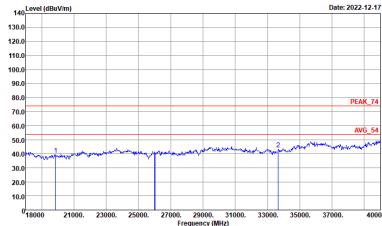
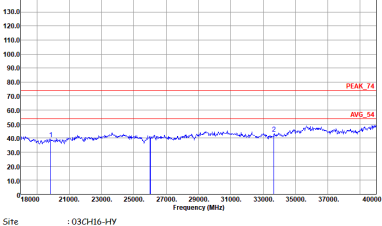


| BLE                               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                            |                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| ANT                               | BLE CH39 2480MHz                                                               |                                                                              |
| 3+4                               | Horizontal                                                                     | Vertical                                                                     |
| <b>14.47G<br/>~14.5G<br/>Avg.</b> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |
|                                   | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL</p> | <p>Site : 03CH16-HY<br/>Condition : AV6_54 3m 91200_1522_220310 VERTICAL</p> |

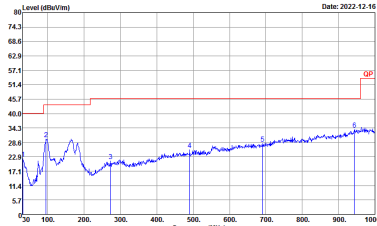
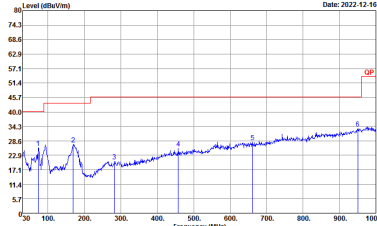


Emission above 18GHz

2.4GHz BLE (SHF @ 1m)

| BLE          | 2.4GHz 2400~2483.5MHz                                                                                                                                              |                                                                                                                                                                     |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | BLE SHF                                                                                                                                                            |                                                                                                                                                                     |
| 3+4          | Horizontal                                                                                                                                                         | Vertical                                                                                                                                                            |
| Peak<br>Avg. |  <p>Site : 03CH16-HY<br/>Condition : PEAK_T4 1m SHF ANT_9170_00993 HORIZONTAL</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_T4 1m SHF ANT_9170_00993 HORIZONTAL</p> |
|              |                                                                                                                                                                    |                                                                                                                                                                     |

**Emission below 1GHz**
**2.4GHz BLE (LF)**

| BLE                  | 2.4GHz 2400~2483.5MHz                                                                                                                                           |                                                                                                                                                                |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | BLE LF                                                                                                                                                          |                                                                                                                                                                |
| 3+4                  | Horizontal                                                                                                                                                      | Vertical                                                                                                                                                       |
| <b>QP /<br/>Peak</b> |  <p>Site : 03CH16-HY<br/>Condition : QP 3m B1LO6_47020_221008_H HORIZONTAL</p> |  <p>Site : 03CH16-HY<br/>Condition : QP 3m B1LO6_47020_221008_H VERTICAL</p> |
|                      |                                                                                                                                                                 |                                                                                                                                                                |

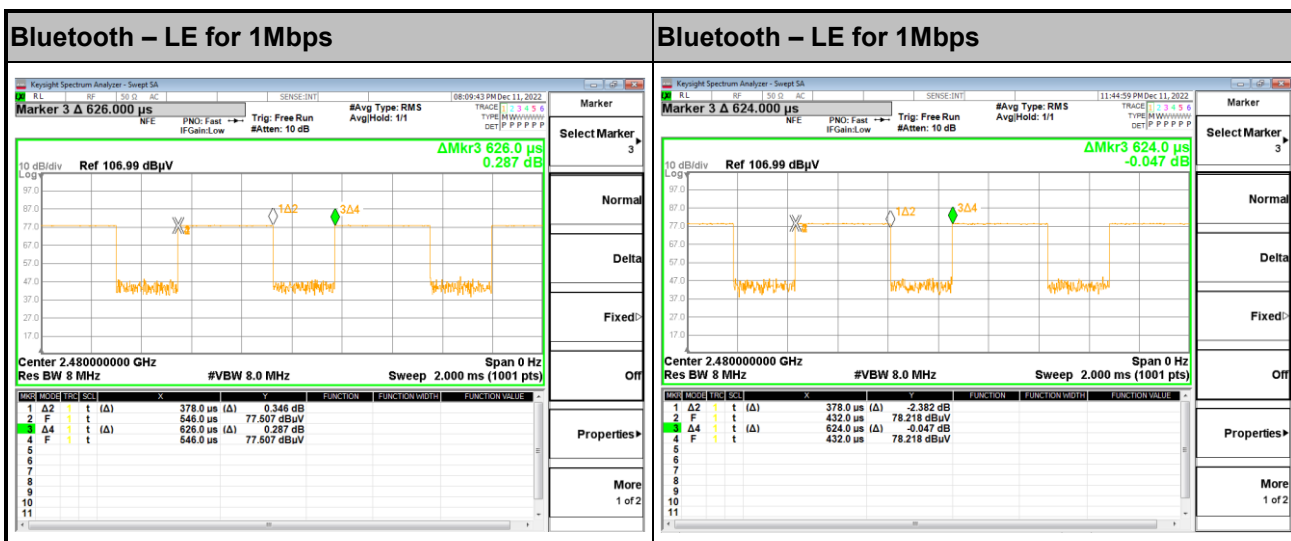


## Appendix E. Duty Cycle Plots

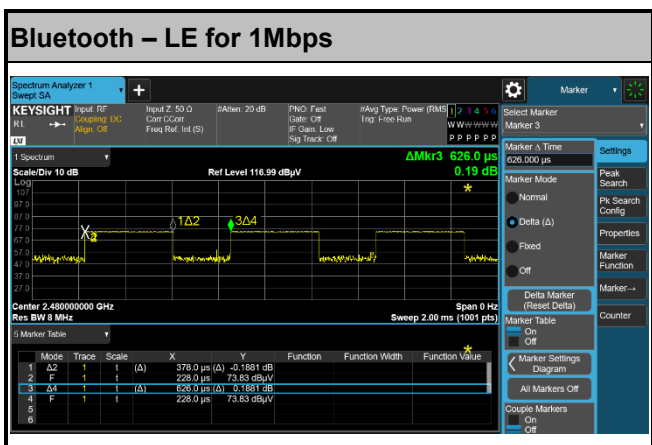
| Antenna | Band                     | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---------|--------------------------|---------------|-------|----------|-------------|
| 4       | Bluetooth - LE for 1Mbps | 60.38         | 378   | 2.65     | 3kHz        |
| 3       | Bluetooth - LE for 1Mbps | 60.58         | 378   | 2.65     | 3kHz        |
| 3+4     | Bluetooth - LE for 1Mbps | 60.38         | 378   | 2.65     | 3kHz        |

&lt;Ant. 4&gt;

&lt;Ant. 3&gt;



MIMO &lt;Ant. 3+4&gt;



—THE END—