

## FCC Test Report

**Report No.:** RF190211C09-2

**FCC ID:** 2AHBN-AP43

**Test Model:** AP43E, AP43

**Received Date:** Feb. 11, 2019

**Test Date:** Apr. 02 ~ Apr. 16, 2019

**Issued Date:** Apr. 18, 2019

**Applicant:** Mist Systems, Inc.

**Address:** 1601 South De Anza Blvd. Suite 248 Cupertino California United States  
95014

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan  
(R.O.C.)

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN (R.O.C.)

**FCC Registration /** 788550 / TW0003  
**Designation Number:**



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### Release Control Record

| Issue No.     | Description      | Date Issued   |
|---------------|------------------|---------------|
| RF190211C09-2 | Original release | Apr. 18, 2019 |

## 1 Certificate of Conformity

**Product:** Premium 802.11ax WiFi and BLE AP

**Brand:** Mist

**Test Model:** AP43E, AP43

**Sample Status:** Engineering sample

**Applicant:** Mist Systems, Inc.

**Test Date:** Apr. 02 ~ Apr. 16, 2019

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.247)  
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Celine Chou , **Date:** Apr. 18, 2019  
Celine Chou / Senior Specialist

**Approved by :** Bruce Chen , **Date:** Apr. 18, 2019  
Bruce Chen / Project Engineer

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.247) |                                              |        |                                                                                    |
|------------------------------------------------|----------------------------------------------|--------|------------------------------------------------------------------------------------|
| FCC Clause                                     | Test Item                                    | Result | Remarks                                                                            |
| 15.207                                         | AC Power Conducted Emission                  | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -4.93dB at 0.34560MHz. |
| 15.205 /<br>15.209 /<br>15.247(d)              | Radiated Emissions and Band Edge Measurement | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -3.0dB at 2483.50MHz.  |
| 15.247(d)                                      | Antenna Port Emission                        | Pass   | Meet the requirement of limit.                                                     |
| 15.247(a)(2)                                   | 6dB bandwidth                                | Pass   | Meet the requirement of limit.                                                     |
| 15.247(b)                                      | Conducted power                              | Pass   | Meet the requirement of limit.                                                     |
| 15.247(e)                                      | Power Spectral Density                       | Pass   | Meet the requirement of limit.                                                     |
| 15.203                                         | Antenna Requirement                          | Pass   | Antenna connector is IPEX not a standard connector.                                |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                        | Frequency        | Expanded Uncertainty (k=2) ( $\pm$ ) |
|------------------------------------|------------------|--------------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz   | 2.94 dB                              |
| Radiated Emissions up to 1 GHz     | 9kHz ~ 30MHz     | 3.04 dB                              |
|                                    | 30MHz ~ 200MHz   | 3.63 dB                              |
|                                    | 200MHz ~ 1000MHz | 3.64 dB                              |
| Radiated Emissions above 1 GHz     | 1GHz ~ 18GHz     | 2.29 dB                              |
|                                    | 18GHz ~ 40GHz    | 2.29 dB                              |

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                     |                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product             | Premium 802.11ax WiFi and BLE AP                                                                                                                                                          |
| Brand               | Mist                                                                                                                                                                                      |
| Test Model          | AP43E, AP43                                                                                                                                                                               |
| Power Supply rating | Refer to note                                                                                                                                                                             |
| Sample Status       | Engineering sample                                                                                                                                                                        |
| Power Supply Rating | 12Vdc from adapter<br>55Vdc from POE                                                                                                                                                      |
| Modulation Type     | GFSK                                                                                                                                                                                      |
| Transfer Rate       | Bluetooth LE 4.0: 1Mbps<br>Bluetooth LE 5.0: 2Mbps                                                                                                                                        |
| Operating Frequency | 2402 ~ 2480MHz                                                                                                                                                                            |
| Number of Channel   | 40                                                                                                                                                                                        |
| Channel Spacing     | 2MHz                                                                                                                                                                                      |
| Output Power        | Test Mode E (BT-Omni antenna)<br>Bluetooth LE 4.0: 4.345mW<br>Bluetooth LE 5.0: 4.355mW<br>Test Mode G (BT-Directional antenna)<br>Bluetooth LE 4.0: 4.345mW<br>Bluetooth LE 5.0: 4.355mW |
| Antenna Type        | Refer to note                                                                                                                                                                             |
| Antenna Connector   | Refer to note                                                                                                                                                                             |
| Accessory Device    | N/A                                                                                                                                                                                       |
| Cable Supplied      | N/A                                                                                                                                                                                       |

Note:

1. All models are listed as below. Model AP43 is the representative for final test.

| Brand | Model | Difference           |
|-------|-------|----------------------|
| Mist  | AP43E | For External Antenna |
|       | AP43  | For Internal Antenna |

2. The EUT consumes power from the following adapter and PoE.

| Adapter (support unit only) |                                                 |
|-----------------------------|-------------------------------------------------|
| Brand                       | Channel Well Technology                         |
| Model                       | 2ABN036F                                        |
| Input                       | 100-240Vac, 50-60Hz 1.7A                        |
| Output                      | 12.0Vdc, 3.0A, 36W                              |
| Power Line                  | 1.5m DC cable with one core attached on adapter |

| PoE (support unit only) |                           |
|-------------------------|---------------------------|
| Brand                   | Microsemi                 |
| Model                   | PD9001GR                  |
| Input Power             | 100-240Vac, 50/60Hz 0.67A |
| Output Power            | 55Vdc, 0.6A               |

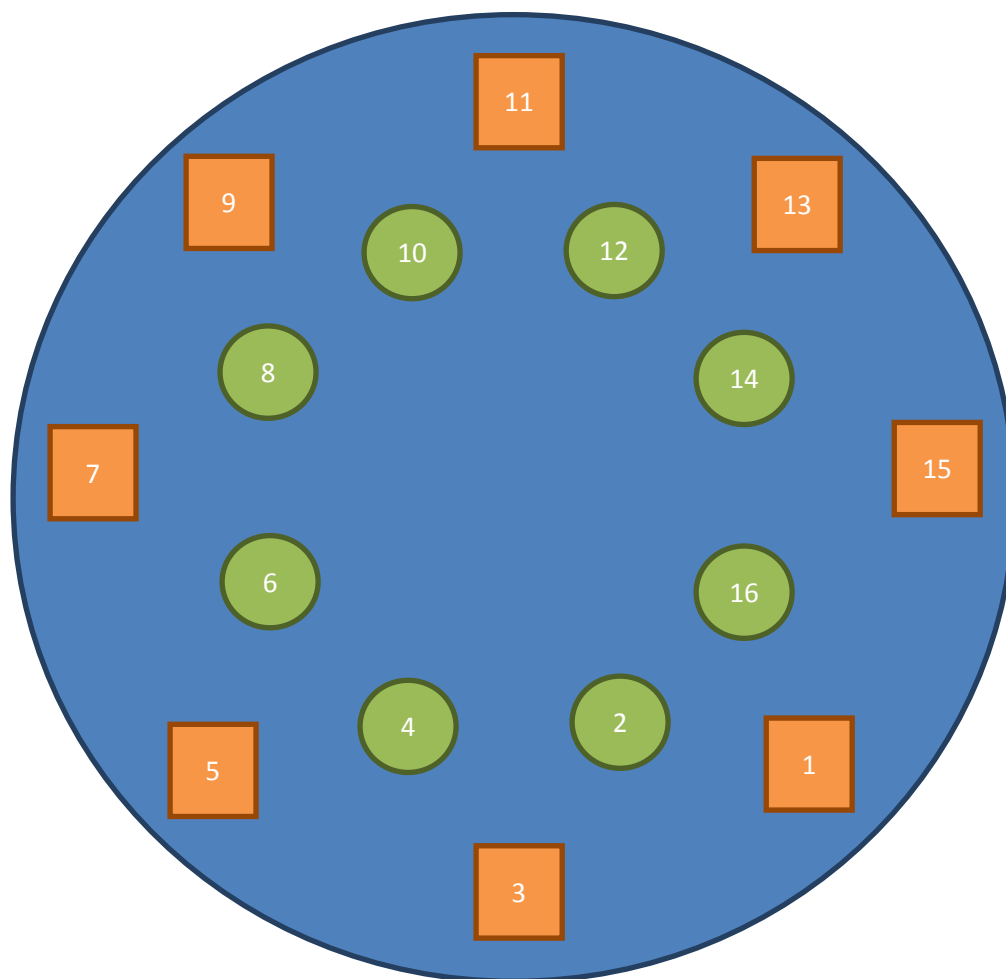
3. There are four radios for the EUT.

| Radio | Brand    | Model    | Function               |                        | TX/RX Function |
|-------|----------|----------|------------------------|------------------------|----------------|
|       |          |          | Internal Antenna       | External Antenna       |                |
| Eth6  | Broadcom | BCM43694 | WLAN 5G B1, 4          | WLAN 5G B1, 4          | 4x4            |
| Eth7  | Broadcom | BCM43694 | WLAN 2.4G,<br>5G B1, 4 | WLAN 2.4G,<br>5G B1, 4 | 2x2            |
| Eth8  | Broadcom | BCM43694 | WLAN 2.4G,<br>5G B4    | WLAN 2.4G              | 4x4            |
| BT LE | Nordic   | NRF52832 | BT LE                  | -                      | 1X1            |

4. The following antennas were provided to the EUT.

|                     |      |
|---------------------|------|
| Antenna Type        | PIFA |
| Antenna Connector   | IPEX |
| Gain (dBi)          |      |
| BT-Omni Ant.        | 0.1  |
| BT-Directional Ant. | 4.5  |

\*The device is composition of 8 directional antenna. 1, 3, 5, 7, 9, 11, 13, 15 are the driven elements. 2, 4, 6, 8, 10, 12, 14, 16 are acting as the reflectors. 1x driven element + 2x adjacent reflector will be a directional antenna. At each time, the central control circuit will create one beam by triggering 4 driven elements. It will further enhance the directivity. Based on the pretest result, beam 1 (composition of ant 1, 3, 5, 7), beam 2 (composition of ant 3, 5, 7, 9), beam 3 (composition of ant 5, 7, 9, 11), beam 4 (composition of ant 7, 9, 11, 13), beam 5 (composition of ant 9, 11, 13, 15), beam 6 (composition of ant 11, 13, 15, 1), beam 7 (composition of ant 13, 15, 1, 3), beam 8 (composition of ant 15, 1, 3, 5) and beam 8 was the worst case. Thus, this case was chosen for the final test.





### 3.2 Description of Test Modes

40 channels are provided to this EUT:

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

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable to |       |     |      | Description                              |
|--------------------|---------------|-------|-----|------|------------------------------------------|
|                    | RE $\geq$ 1G  | RE<1G | PLC | APCM |                                          |
| A                  | √             | √     | √   | -    | AP43 (BT-Omni antenna) + POE             |
| B                  | -             | √     | √   | -    | AP43 (BT-Omni antenna) + Adapter         |
| C                  | √             | √     | √   | -    | AP43 (BT-Directional antenna) + POE      |
| D                  | -             | √     | √   | -    | AP43 (BT-Directional antenna) + Adapter  |
| E                  | √             | √     | √   | √    | AP43E (BT-Omni antenna) + POE            |
| F                  | -             | √     | √   | -    | AP43E (BT-Omni antenna) + Adapter        |
| G                  | √             | √     | √   | √    | AP43E (BT-Directional antenna) + POE     |
| H                  | -             | √     | √   | -    | AP43E (BT-Directional antenna) + Adapter |

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement

PLC: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

APCM: Antenna Port Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

#### **Radiated Emission Test (Above 1GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Data Rate (Mbps) |
|--------------------|-------------------|----------------|-----------------|------------------|
| A, C, E, G         | 0 to 39           | 0, 19, 39      | GFSK            | 1, 2             |

#### **Radiated Emission Test (Below 1GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode     | Available Channel | Tested Channel | Modulation Type | Data Rate (Mbps) |
|------------------------|-------------------|----------------|-----------------|------------------|
| A, B, C, D, E, F, G, H | 0 to 39           | 39             | GFSK            | 2                |

#### **Power Line Conducted Emission Test:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode     | Available Channel | Tested Channel | Modulation Type | Data Rate (Mbps) |
|------------------------|-------------------|----------------|-----------------|------------------|
| A, B, C, D, E, F, G, H | 0 to 39           | 39             | GFSK            | 2                |

#### **Antenna Port Conducted Measurement:**

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Data Rate (Mbps) |
|--------------------|-------------------|----------------|-----------------|------------------|
| E, G               | 0 to 39           | 0, 19, 39      | GFSK            | 1, 2             |

**Test Condition:**

| Applicable to | Environmental Conditions               | Input Power           | Tested by                |
|---------------|----------------------------------------|-----------------------|--------------------------|
| RE $\geq$ 1G  | 25 deg. C, 70% RH<br>25 deg. C, 71% RH | 55Vdc                 | Luis Lee<br>Noah Chang   |
| RE<1G         | 25 deg. C, 70% RH                      | 120Vac, 60Hz<br>55Vdc | Luis Lee                 |
| PLC           | 25 deg. C, 75% RH<br>22 deg. C, 66% RH | 120Vac, 60Hz<br>55Vdc | Noah Chang<br>Adair Peng |
| APCM          | 25 deg. C, 60% RH                      | 55Vdc                 | Ted Chang                |

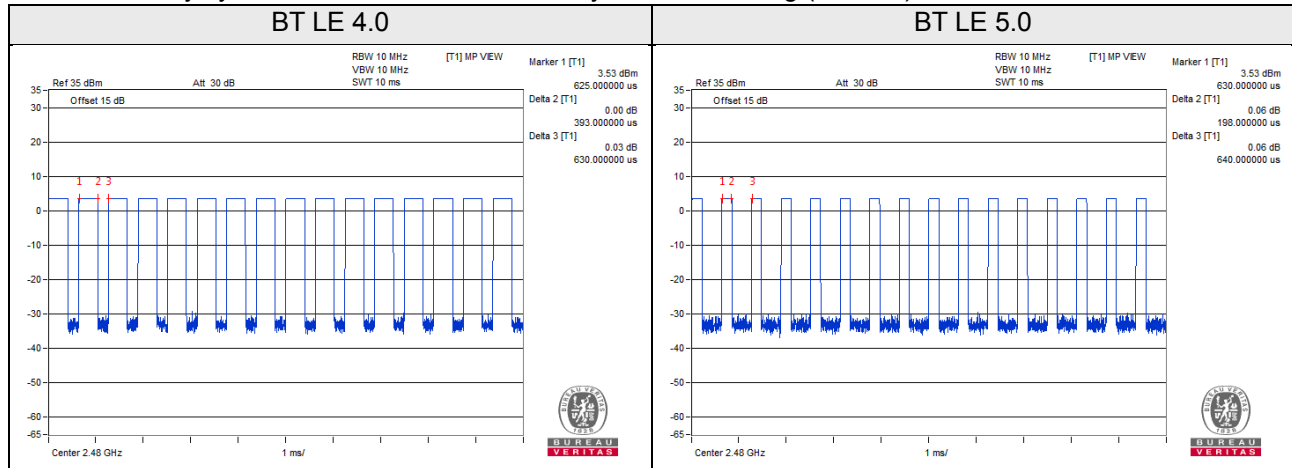
### 3.3 Duty Cycle of Test Signal

#### Test Mode E (BT-Omni antenna)

Duty cycle of test signal is < 98%.

BT LE 4.0: Duty cycle =  $0.393/0.630 = 0.624$ , Duty factor =  $10 * \log(1/0.624) = 2.05$

BT LE 5.0: Duty cycle =  $0.198/0.640 = 0.309$ , Duty factor =  $10 * \log(1/0.309) = 5.10$

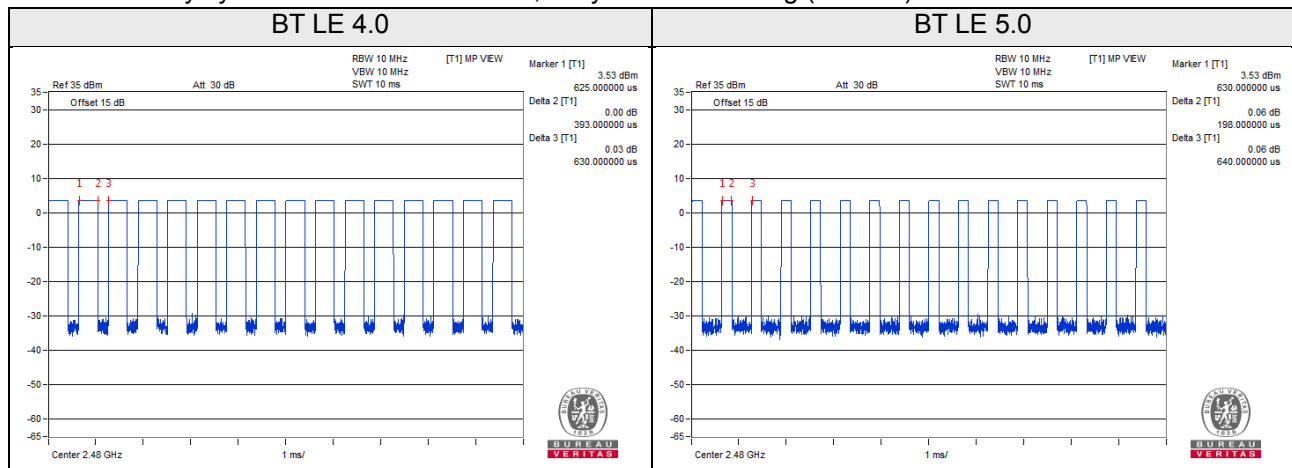


#### Test Mode G (BT-Directional antenna)

Duty cycle of test signal is < 98%.

BT LE 4.0: Duty cycle =  $0.393/0.630 = 0.624$ , Duty factor =  $10 * \log(1/0.624) = 2.05$

BT LE 5.0: Duty cycle =  $0.198/0.640 = 0.309$ , Duty factor =  $10 * \log(1/0.309) = 5.10$



### 3.4 Description of Support Units

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

| ID | Product  | Brand                   | Model No. | Serial No. | FCC ID           | Remarks                  |
|----|----------|-------------------------|-----------|------------|------------------|--------------------------|
| A. | Notebook | DELL                    | E5410     | 1HC2XM1    | FCC DoC Approved | -                        |
| B. | Adapter  | Channel Well Technology | 2ABN036F  | NA         | NA               | Provided by manufacturer |
| C. | POE      | Microsemi               | PD9001GR  | NA         | NA               | Provided by manufacturer |

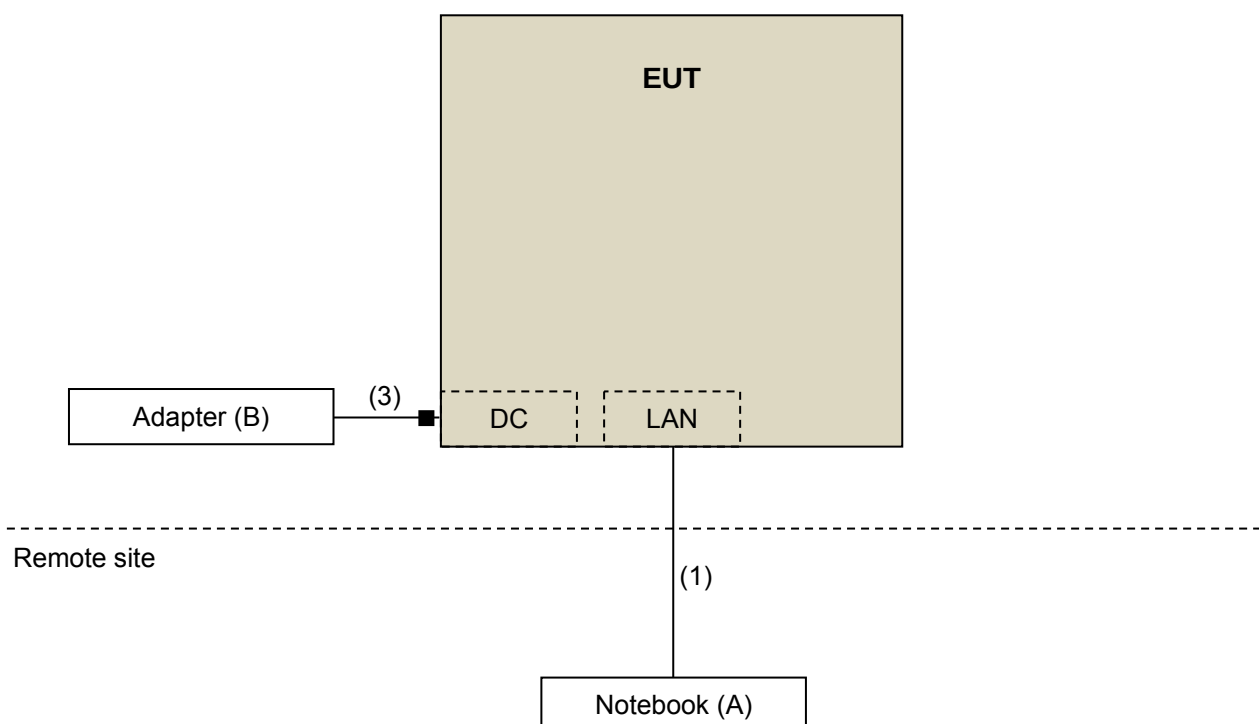
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

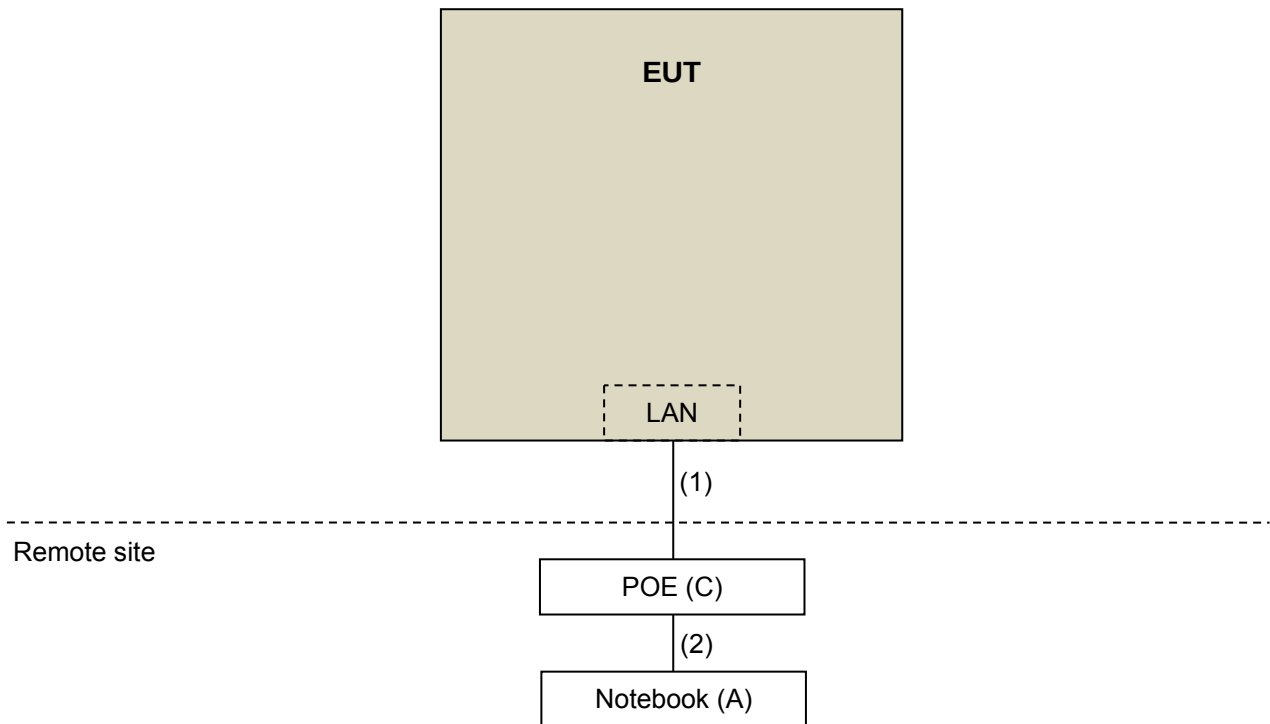
| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks                  |
|----|--------------|------|------------|--------------------|--------------|--------------------------|
| 1. | RJ45 cable   | 1    | 6          | N                  | 0            | Cat5e                    |
| 2. | RJ45 cable   | 1    | 1.5        | N                  | 0            | Cat5e                    |
| 3. | DC cable     | 1    | 1.5        | -                  | 1            | Provided by manufacturer |

#### 3.4.1 Configuration of System under Test

Adapter Mode



POE Mode



### 3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart C (15.247)**

**KDB 558074 D01 15.247 Meas Guidance v05r02**

ANSI C63.10:2013

All test items have been performed and recorded as per the above standards.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

| Frequencies<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                                |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

#### 4.1.2 Test Instruments

| Description & Manufacturer               | Model No.                    | Serial No.                                          | Cal. Date     | Cal. Due      |
|------------------------------------------|------------------------------|-----------------------------------------------------|---------------|---------------|
| Test Receiver<br>ROHDE & SCHWARZ         | ESCI                         | 100424                                              | Jan. 03, 2019 | Jan. 02, 2020 |
| Spectrum Analyzer<br>ROHDE & SCHWARZ     | FSP40                        | 100040                                              | Sep. 25, 2018 | Sep. 24, 2019 |
| BILOG Antenna<br>SCHWARZBECK             | VULB9168                     | 9168-155                                            | Nov. 21, 2018 | Nov. 20, 2019 |
| HORN Antenna<br>SCHWARZBECK              | BBHA 9120D                   | 9120D-1170                                          | Nov. 25, 2018 | Nov. 24, 2019 |
| HORN Antenna<br>SCHWARZBECK              | BBHA 9170                    | BBHA9170241                                         | Nov. 25, 2018 | Nov. 24, 2019 |
| Loop Antenna<br>TESEQ                    | HLA 6121                     | 45745                                               | Jun. 14, 2018 | Jun. 13, 2019 |
| Preamplifier<br>Agilent<br>(Below 1GHz)  | 8447D                        | 2944A10631                                          | Aug. 08, 2018 | Aug. 07, 2019 |
| Preamplifier<br>KEYSIGHT<br>(Above 1GHz) | 83017A                       | MY53270295                                          | Jul. 02, 2018 | Jul. 01, 2019 |
| RF signal cable<br>HUBER+SUHNER          | SUCOFLEX 104                 | MY 13380+295012/04                                  | Aug. 08, 2018 | Aug. 07, 2019 |
| RF signal cable<br>HUBER+SUHNER          | SUCOFLEX 104                 | Cable-CH4-03 (250724)                               | Aug. 08, 2018 | Aug. 07, 2019 |
| Software<br>BV ADT                       | ADT_Radiated_<br>V7.6.15.9.5 | NA                                                  | NA            | NA            |
| Antenna Tower<br>inn-co GmbH             | MA 4000                      | 010303                                              | NA            | NA            |
| Antenna Tower Controller<br>BV ADT       | AT100                        | AT93021703                                          | NA            | NA            |
| Turn Table<br>BV ADT                     | TT100                        | TT93021703                                          | NA            | NA            |
| Turn Table Controller<br>BV ADT          | SC100                        | SC93021703                                          | NA            | NA            |
| Boresight Antenna Fixture                | FBA-01                       | FBA-SIP01                                           | NA            | NA            |
| Pre-amplifier (18GHz-40GHz)<br>EMC       | EMC184045B                   | 980175                                              | Nov. 14, 2018 | Nov. 13, 2019 |
| USB Wideband Power Sensor<br>KEYSIGHT    | U2021XA                      | MY55050005/MY5519000<br>4/MY55190007/MY55210<br>005 | Jul. 17, 2018 | Jul. 16, 2019 |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. The test was performed in HwaYa Chamber 4.



#### 4.1.3 Test Procedures

##### For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

##### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

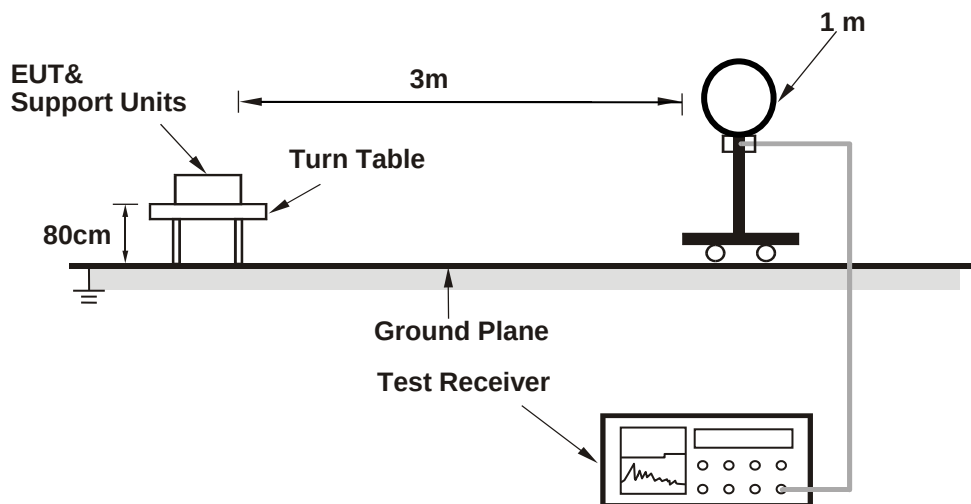
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Deviation from Test Standard

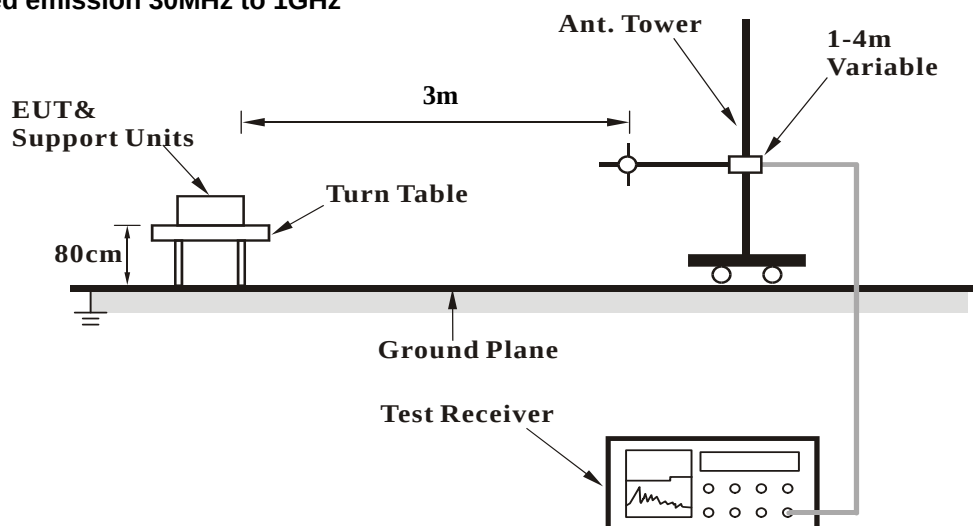
No deviation.

#### 4.1.5 Test Setup

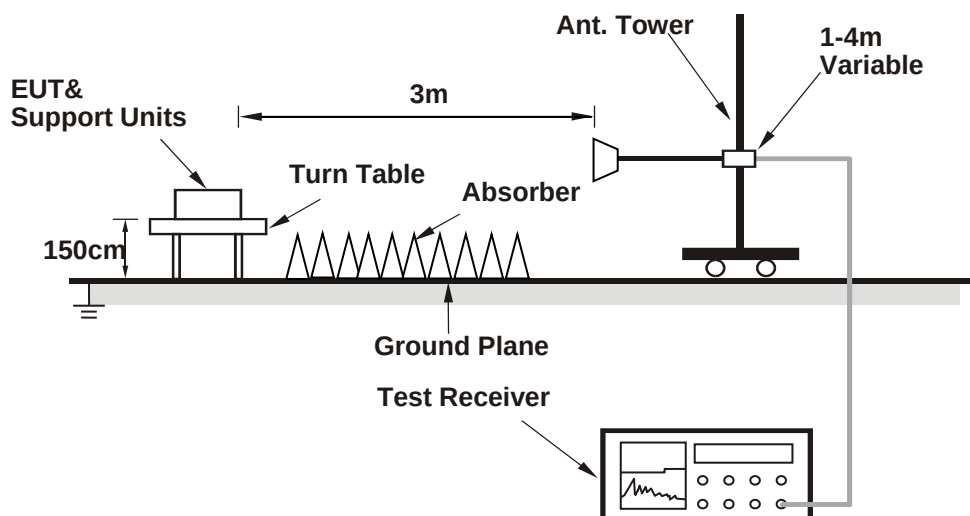
##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



### For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Prepared a notebook to act as a communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The communication partner sent data to EUT by command "PING".

#### 4.1.7 Test Results

Above 1 GHz Data:

Test Mode A (BT-Omni antenna)

BT LE 4.0

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 0 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.3 PK                 | 74.0           | -16.7       | 1.28 H             | 303                  | 23.5             | 33.8                     |
| 2                                                   | 2390.00     | 45.8 AV                 | 54.0           | -8.2        | 1.28 H             | 303                  | 12.0             | 33.8                     |
| 3                                                   | *2402.00    | 82.9 PK                 |                |             | 1.16 H             | 309                  | 49.2             | 33.7                     |
| 4                                                   | *2402.00    | 78.8 AV                 |                |             | 1.16 H             | 309                  | 45.1             | 33.7                     |
| 5                                                   | 4804.00     | 51.5 PK                 | 74.0           | -22.5       | 1.63 H             | 255                  | 38.2             | 13.3                     |
| 6                                                   | 4804.00     | 39.3 AV                 | 54.0           | -14.7       | 1.63 H             | 255                  | 26.0             | 13.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 58.0 PK                 | 74.0           | -16.0       | 3.15 V             | 336                  | 24.2             | 33.8                     |
| 2                                                   | 2390.00     | 46.6 AV                 | 54.0           | -7.4        | 3.15 V             | 336                  | 12.8             | 33.8                     |
| 3                                                   | *2402.00    | 96.7 PK                 |                |             | 3.21 V             | 327                  | 63.0             | 33.7                     |
| 4                                                   | *2402.00    | 92.7 AV                 |                |             | 3.21 V             | 327                  | 59.0             | 33.7                     |
| 5                                                   | 4804.00     | 51.9 PK                 | 74.0           | -22.1       | 2.20 V             | 126                  | 38.6             | 13.3                     |
| 6                                                   | 4804.00     | 39.8 AV                 | 54.0           | -14.2       | 2.20 V             | 126                  | 26.5             | 13.3                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 19 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 83.6 PK                 |                |             | 1.11 H             | 305                  | 49.8             | 33.8                     |
| 2                                                   | *2440.00    | 79.4 AV                 |                |             | 1.11 H             | 305                  | 45.6             | 33.8                     |
| 3                                                   | 4880.00     | 51.7 PK                 | 74.0           | -22.3       | 1.96 H             | 230                  | 38.5             | 13.2                     |
| 4                                                   | 4880.00     | 39.3 AV                 | 54.0           | -14.7       | 1.96 H             | 230                  | 26.1             | 13.2                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 97.6 PK                 |                |             | 3.16 V             | 320                  | 63.8             | 33.8                     |
| 2                                                   | *2440.00    | 93.4 AV                 |                |             | 3.16 V             | 320                  | 59.6             | 33.8                     |
| 3                                                   | 4880.00     | 51.7 PK                 | 74.0           | -22.3       | 2.50 V             | 163                  | 38.5             | 13.2                     |
| 4                                                   | 4880.00     | 39.8 AV                 | 54.0           | -14.2       | 2.50 V             | 163                  | 26.6             | 13.2                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 84.6 PK                 |                |             | 1.28 H             | 316                  | 50.7             | 33.9                     |
| 2                                                   | *2480.00    | 80.3 AV                 |                |             | 1.28 H             | 316                  | 46.4             | 33.9                     |
| 3                                                   | 2483.50     | 58.2 PK                 | 74.0           | -15.8       | 1.05 H             | 315                  | 24.3             | 33.9                     |
| 4                                                   | 2483.50     | 47.6 AV                 | 54.0           | -6.4        | 1.05 H             | 315                  | 13.7             | 33.9                     |
| 5                                                   | 4960.00     | 51.4 PK                 | 74.0           | -22.6       | 2.21 H             | 154                  | 37.9             | 13.5                     |
| 6                                                   | 4960.00     | 39.3 AV                 | 54.0           | -14.7       | 2.21 H             | 154                  | 25.8             | 13.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 98.6 PK                 |                |             | 3.24 V             | 319                  | 64.7             | 33.9                     |
| 2                                                   | *2480.00    | 94.3 AV                 |                |             | 3.24 V             | 319                  | 60.4             | 33.9                     |
| 3                                                   | 2483.50     | 59.6 PK                 | 74.0           | -14.4       | 3.35 V             | 317                  | 25.7             | 33.9                     |
| 4                                                   | 2483.50     | 48.3 AV                 | 54.0           | -5.7        | 3.35 V             | 317                  | 14.4             | 33.9                     |
| 5                                                   | 4960.00     | 51.9 PK                 | 74.0           | -22.1       | 2.58 V             | 196                  | 38.4             | 13.5                     |
| 6                                                   | 4960.00     | 39.8 AV                 | 54.0           | -14.2       | 2.58 V             | 196                  | 26.3             | 13.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

# BT LE 5.0

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 0 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.2 PK                 | 74.0           | -16.8       | 1.22 H             | 310                  | 23.4             | 33.8                     |
| 2                                                   | 2390.00     | 47.4 AV                 | 54.0           | -6.6        | 1.22 H             | 310                  | 13.6             | 33.8                     |
| 3                                                   | *2402.00    | 82.6 PK                 |                |             | 1.07 H             | 296                  | 48.9             | 33.7                     |
| 4                                                   | *2402.00    | 79.1 AV                 |                |             | 1.07 H             | 296                  | 45.4             | 33.7                     |
| 5                                                   | 4804.00     | 51.3 PK                 | 74.0           | -22.7       | 2.67 H             | 143                  | 38.0             | 13.3                     |
| 6                                                   | 4804.00     | 39.4 AV                 | 54.0           | -14.6       | 2.67 H             | 143                  | 26.1             | 13.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.6 PK                 | 74.0           | -16.4       | 3.21 V             | 335                  | 23.8             | 33.8                     |
| 2                                                   | 2390.00     | 47.8 AV                 | 54.0           | -6.2        | 3.21 V             | 335                  | 14.0             | 33.8                     |
| 3                                                   | *2402.00    | 96.6 PK                 |                |             | 3.29 V             | 329                  | 62.9             | 33.7                     |
| 4                                                   | *2402.00    | 93.5 AV                 |                |             | 3.29 V             | 329                  | 59.8             | 33.7                     |
| 5                                                   | 4804.00     | 51.7 PK                 | 74.0           | -22.3       | 2.14 V             | 162                  | 38.4             | 13.3                     |
| 6                                                   | 4804.00     | 39.6 AV                 | 54.0           | -14.4       | 2.14 V             | 162                  | 26.3             | 13.3                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 19 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 83.0 PK                 |                |             | 1.15 H             | 308                  | 49.2             | 33.8                     |
| 2                                                   | *2440.00    | 79.3 AV                 |                |             | 1.15 H             | 308                  | 45.5             | 33.8                     |
| 3                                                   | 4880.00     | 51.5 PK                 | 74.0           | -22.5       | 2.98 H             | 182                  | 38.3             | 13.2                     |
| 4                                                   | 4880.00     | 39.1 AV                 | 54.0           | -14.9       | 2.98 H             | 182                  | 25.9             | 13.2                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 97.0 PK                 |                |             | 3.19 V             | 322                  | 63.2             | 33.8                     |
| 2                                                   | *2440.00    | 93.3 AV                 |                |             | 3.19 V             | 322                  | 59.5             | 33.8                     |
| 3                                                   | 4880.00     | 51.8 PK                 | 74.0           | -22.2       | 2.33 V             | 147                  | 38.6             | 13.2                     |
| 4                                                   | 4880.00     | 40.0 AV                 | 54.0           | -14.0       | 2.33 V             | 147                  | 26.8             | 13.2                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.



|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 85.7 PK                 |                |             | 1.11 H             | 304                  | 51.8             | 33.9                     |
| 2                                                   | *2480.00    | 82.7 AV                 |                |             | 1.11 H             | 304                  | 48.8             | 33.9                     |
| 3                                                   | 2483.50     | 57.3 PK                 | 74.0           | -16.7       | 1.20 H             | 309                  | 23.4             | 33.9                     |
| 4                                                   | 2483.50     | 47.4 AV                 | 54.0           | -6.6        | 1.20 H             | 309                  | 13.5             | 33.9                     |
| 5                                                   | 4960.00     | 51.6 PK                 | 74.0           | -22.4       | 2.85 H             | 177                  | 38.1             | 13.5                     |
| 6                                                   | 4960.00     | 39.8 AV                 | 54.0           | -14.2       | 2.85 H             | 177                  | 26.3             | 13.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 99.4 PK                 |                |             | 3.70 V             | 325                  | 65.5             | 33.9                     |
| 2                                                   | *2480.00    | 96.4 AV                 |                |             | 3.70 V             | 325                  | 62.5             | 33.9                     |
| 3                                                   | 2483.50     | 60.3 PK                 | 74.0           | -13.7       | 3.55 V             | 330                  | 26.4             | 33.9                     |
| 4                                                   | 2483.50     | 49.0 AV                 | 54.0           | -5.0        | 3.55 V             | 330                  | 15.1             | 33.9                     |
| 5                                                   | 4960.00     | 51.9 PK                 | 74.0           | -22.1       | 2.61 V             | 158                  | 38.4             | 13.5                     |
| 6                                                   | 4960.00     | 40.3 AV                 | 54.0           | -13.7       | 2.61 V             | 158                  | 26.8             | 13.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

# Test Mode C (BT-Directional antenna)

## BT LE 4.0

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 0 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.6 PK                 | 74.0           | -16.4       | 1.17 H             | 302                  | 23.8             | 33.8                     |
| 2                                                   | 2390.00     | 45.9 AV                 | 54.0           | -8.1        | 1.17 H             | 302                  | 12.1             | 33.8                     |
| 3                                                   | *2402.00    | 87.9 PK                 |                |             | 1.29 H             | 311                  | 54.2             | 33.7                     |
| 4                                                   | *2402.00    | 83.5 AV                 |                |             | 1.29 H             | 311                  | 49.8             | 33.7                     |
| 5                                                   | 4804.00     | 51.8 PK                 | 74.0           | -22.2       | 2.63 H             | 115                  | 38.5             | 13.3                     |
| 6                                                   | 4804.00     | 39.6 AV                 | 54.0           | -14.4       | 2.63 H             | 115                  | 26.3             | 13.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 58.5 PK                 | 74.0           | -15.5       | 2.66 V             | 27                   | 24.7             | 33.8                     |
| 2                                                   | 2390.00     | 46.2 AV                 | 54.0           | -7.8        | 2.66 V             | 27                   | 12.4             | 33.8                     |
| 3                                                   | *2402.00    | 102.2 PK                |                |             | 2.58 V             | 8                    | 68.5             | 33.7                     |
| 4                                                   | *2402.00    | 97.4 AV                 |                |             | 2.58 V             | 8                    | 63.7             | 33.7                     |
| 5                                                   | 4804.00     | 53.2 PK                 | 74.0           | -20.8       | 2.04 V             | 158                  | 39.9             | 13.3                     |
| 6                                                   | 4804.00     | 40.0 AV                 | 54.0           | -14.0       | 2.04 V             | 158                  | 26.7             | 13.3                     |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 19 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 89.5 PK                 |                |             | 1.16 H             | 311                  | 55.7             | 33.8                     |
| 2                                                   | *2440.00    | 84.8 AV                 |                |             | 1.16 H             | 311                  | 51.0             | 33.8                     |
| 3                                                   | 4880.00     | 51.7 PK                 | 74.0           | -22.3       | 1.89 H             | 214                  | 38.5             | 13.2                     |
| 4                                                   | 4880.00     | 39.3 AV                 | 54.0           | -14.7       | 1.89 H             | 214                  | 26.1             | 13.2                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 102.8 PK                |                |             | 2.57 V             | 12                   | 69.0             | 33.8                     |
| 2                                                   | *2440.00    | 98.9 AV                 |                |             | 2.57 V             | 12                   | 65.1             | 33.8                     |
| 3                                                   | 4880.00     | 52.7 PK                 | 74.0           | -21.3       | 1.88 V             | 241                  | 39.5             | 13.2                     |
| 4                                                   | 4880.00     | 40.0 AV                 | 54.0           | -14.0       | 1.88 V             | 241                  | 26.8             | 13.2                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 87.7 PK                 |                |             | 1.33 H             | 320                  | 53.8             | 33.9                     |
| 2                                                   | *2480.00    | 83.5 AV                 |                |             | 1.33 H             | 320                  | 49.6             | 33.9                     |
| 3                                                   | 2483.50     | 58.0 PK                 | 74.0           | -16.0       | 1.05 H             | 319                  | 24.1             | 33.9                     |
| 4                                                   | 2483.50     | 46.5 AV                 | 54.0           | -7.5        | 1.05 H             | 319                  | 12.6             | 33.9                     |
| 5                                                   | 4960.00     | 51.7 PK                 | 74.0           | -22.3       | 1.99 H             | 245                  | 38.2             | 13.5                     |
| 6                                                   | 4960.00     | 39.4 AV                 | 54.0           | -14.6       | 1.99 H             | 245                  | 25.9             | 13.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 101.9 PK                |                |             | 2.75 V             | 9                    | 68.0             | 33.9                     |
| 2                                                   | *2480.00    | 96.9 AV                 |                |             | 2.75 V             | 9                    | 63.0             | 33.9                     |
| 3                                                   | 2483.50     | 61.2 PK                 | 74.0           | -12.8       | 2.71 V             | 5                    | 27.3             | 33.9                     |
| 4                                                   | 2483.50     | 47.8 AV                 | 54.0           | -6.2        | 2.71 V             | 5                    | 13.9             | 33.9                     |
| 5                                                   | 4960.00     | 52.3 PK                 | 74.0           | -21.7       | 1.74 V             | 265                  | 38.8             | 13.5                     |
| 6                                                   | 4960.00     | 40.0 AV                 | 54.0           | -14.0       | 1.74 V             | 265                  | 26.5             | 13.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

## BT LE 5.0

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 0 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 56.9 PK                 | 74.0           | -17.1       | 1.11 H             | 319                  | 23.1             | 33.8                     |
| 2                                                   | 2390.00     | 46.6 AV                 | 54.0           | -7.4        | 1.11 H             | 319                  | 12.8             | 33.8                     |
| 3                                                   | *2402.00    | 88.2 PK                 |                |             | 1.14 H             | 306                  | 54.5             | 33.7                     |
| 4                                                   | *2402.00    | 85.3 AV                 |                |             | 1.14 H             | 306                  | 51.6             | 33.7                     |
| 5                                                   | 4804.00     | 51.4 PK                 | 74.0           | -22.6       | 2.39 H             | 147                  | 38.1             | 13.3                     |
| 6                                                   | 4804.00     | 39.2 AV                 | 54.0           | -14.8       | 2.39 H             | 147                  | 25.9             | 13.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.7 PK                 | 74.0           | -16.3       | 2.77 V             | 16                   | 23.9             | 33.8                     |
| 2                                                   | 2390.00     | 47.6 AV                 | 54.0           | -6.4        | 2.77 V             | 16                   | 13.8             | 33.8                     |
| 3                                                   | *2402.00    | 102.4 PK                |                |             | 2.68 V             | 5                    | 68.7             | 33.7                     |
| 4                                                   | *2402.00    | 99.5 AV                 |                |             | 2.68 V             | 5                    | 65.8             | 33.7                     |
| 5                                                   | 4804.00     | 51.6 PK                 | 74.0           | -22.4       | 1.49 V             | 211                  | 38.3             | 13.3                     |
| 6                                                   | 4804.00     | 39.6 AV                 | 54.0           | -14.4       | 1.49 V             | 211                  | 26.3             | 13.3                     |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 19 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 88.9 PK                 |                |             | 1.38 H             | 320                  | 55.1             | 33.8                     |
| 2                                                   | *2440.00    | 85.9 AV                 |                |             | 1.38 H             | 320                  | 52.1             | 33.8                     |
| 3                                                   | 4880.00     | 51.3 PK                 | 74.0           | -22.7       | 2.66 H             | 196                  | 38.1             | 13.2                     |
| 4                                                   | 4880.00     | 39.1 AV                 | 54.0           | -14.9       | 2.66 H             | 196                  | 25.9             | 13.2                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 103.0 PK                |                |             | 2.71 V             | 7                    | 69.2             | 33.8                     |
| 2                                                   | *2440.00    | 100.2 AV                |                |             | 2.71 V             | 7                    | 66.4             | 33.8                     |
| 3                                                   | 4880.00     | 51.9 PK                 | 74.0           | -22.1       | 1.63 V             | 254                  | 38.7             | 13.2                     |
| 4                                                   | 4880.00     | 39.7 AV                 | 54.0           | -14.3       | 1.63 V             | 254                  | 26.5             | 13.2                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz)    | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00       | 87.7 PK                 |                |             | 1.36 H             | 338                  | 53.8             | 33.9                     |
| 2                                                   | *2480.00       | 84.3 AV                 |                |             | 1.36 H             | 338                  | 50.4             | 33.9                     |
| 3                                                   | 2483.50        | 58.1 PK                 | 74.0           | -15.9       | 1.16 H             | 311                  | 24.2             | 33.9                     |
| 4                                                   | 2483.50        | 47.7 AV                 | 54.0           | -6.3        | 1.16 H             | 311                  | 13.8             | 33.9                     |
| 5                                                   | 4960.00        | 51.3 PK                 | 74.0           | -22.7       | 1.85 H             | 222                  | 37.8             | 13.5                     |
| 6                                                   | 4960.00        | 39.4 AV                 | 54.0           | -14.6       | 1.85 H             | 222                  | 25.9             | 13.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz)    | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00       | 102.0 PK                |                |             | 2.66 V             | 10                   | 68.1             | 33.9                     |
| 2                                                   | *2480.00       | 99.2 AV                 |                |             | 2.66 V             | 10                   | 65.3             | 33.9                     |
| 3                                                   | 2483.50        | 60.7 PK                 | 74.0           | -13.3       | 2.70 V             | 3                    | 26.8             | 33.9                     |
| 4                                                   | <b>2483.50</b> | <b>51.0 AV</b>          | <b>54.0</b>    | <b>-3.0</b> | <b>2.70 V</b>      | <b>3</b>             | <b>17.1</b>      | <b>33.9</b>              |
| 5                                                   | 4960.00        | 51.6 PK                 | 74.0           | -22.4       | 2.10 V             | 144                  | 38.1             | 13.5                     |
| 6                                                   | 4960.00        | 40.2 AV                 | 54.0           | -13.8       | 2.10 V             | 144                  | 26.7             | 13.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

Test Mode E (BT-Omni antenna)

BT LE 4.0

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 0 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.7 PK                 | 74.0           | -16.3       | 3.02 H             | 306                  | 23.9             | 33.8                     |
| 2                                                   | 2390.00     | 45.8 AV                 | 54.0           | -8.2        | 3.02 H             | 306                  | 12.0             | 33.8                     |
| 3                                                   | *2402.00    | 85.1 PK                 |                |             | 3.00 H             | 300                  | 51.4             | 33.7                     |
| 4                                                   | *2402.00    | 80.7 AV                 |                |             | 3.00 H             | 300                  | 47.0             | 33.7                     |
| 5                                                   | 4804.00     | 51.8 PK                 | 74.0           | -22.2       | 1.11 H             | 121                  | 38.5             | 13.3                     |
| 6                                                   | 4804.00     | 39.8 AV                 | 54.0           | -14.2       | 1.11 H             | 121                  | 26.5             | 13.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 58.0 PK                 | 74.0           | -16.0       | 2.99 V             | 350                  | 24.2             | 33.8                     |
| 2                                                   | 2390.00     | 46.2 AV                 | 54.0           | -7.8        | 2.99 V             | 350                  | 12.4             | 33.8                     |
| 3                                                   | *2402.00    | 99.1 PK                 |                |             | 3.08 V             | 353                  | 65.4             | 33.7                     |
| 4                                                   | *2402.00    | 94.7 AV                 |                |             | 3.08 V             | 353                  | 61.0             | 33.7                     |
| 5                                                   | 4804.00     | 52.4 PK                 | 74.0           | -21.6       | 2.52 V             | 152                  | 39.1             | 13.3                     |
| 6                                                   | 4804.00     | 40.2 AV                 | 54.0           | -13.8       | 2.52 V             | 152                  | 26.9             | 13.3                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.



|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 19 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 84.5 PK                 |                |             | 3.07 H             | 302                  | 50.7             | 33.8                     |
| 2                                                   | *2440.00    | 79.8 AV                 |                |             | 3.07 H             | 302                  | 46.0             | 33.8                     |
| 3                                                   | 4880.00     | 51.2 PK                 | 74.0           | -22.8       | 2.12 H             | 2                    | 38.0             | 13.2                     |
| 4                                                   | 4880.00     | 38.7 AV                 | 54.0           | -15.3       | 2.12 H             | 2                    | 25.5             | 13.2                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 98.5 PK                 |                |             | 3.07 V             | 351                  | 64.7             | 33.8                     |
| 2                                                   | *2440.00    | 93.8 AV                 |                |             | 3.07 V             | 351                  | 60.0             | 33.8                     |
| 3                                                   | 4880.00     | 51.8 PK                 | 74.0           | -22.2       | 2.55 V             | 211                  | 38.6             | 13.2                     |
| 4                                                   | 4880.00     | 39.0 AV                 | 54.0           | -15.0       | 2.55 V             | 211                  | 25.8             | 13.2                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 84.8 PK                 |                |             | 3.12 H             | 302                  | 50.9             | 33.9                     |
| 2                                                   | *2480.00    | 80.6 AV                 |                |             | 3.12 H             | 302                  | 46.7             | 33.9                     |
| 3                                                   | 2483.50     | 58.4 PK                 | 74.0           | -15.6       | 3.50 H             | 320                  | 24.5             | 33.9                     |
| 4                                                   | 2483.50     | 46.1 AV                 | 54.0           | -7.9        | 3.50 H             | 320                  | 12.2             | 33.9                     |
| 5                                                   | 4960.00     | 51.6 PK                 | 74.0           | -22.4       | 2.63 H             | 125                  | 38.1             | 13.5                     |
| 6                                                   | 4960.00     | 38.7 AV                 | 54.0           | -15.3       | 2.63 H             | 125                  | 25.2             | 13.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 98.8 PK                 |                |             | 3.56 V             | 340                  | 64.9             | 33.9                     |
| 2                                                   | *2480.00    | 94.6 AV                 |                |             | 3.56 V             | 340                  | 60.7             | 33.9                     |
| 3                                                   | 2483.50     | 60.4 PK                 | 74.0           | -13.6       | 3.55 V             | 340                  | 26.5             | 33.9                     |
| 4                                                   | 2483.50     | 46.6 AV                 | 54.0           | -7.4        | 3.55 V             | 340                  | 12.7             | 33.9                     |
| 5                                                   | 4960.00     | 52.0 PK                 | 74.0           | -22.0       | 1.55 V             | 242                  | 38.5             | 13.5                     |
| 6                                                   | 4960.00     | 39.1 AV                 | 54.0           | -14.9       | 1.55 V             | 242                  | 25.6             | 13.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

## BT LE 5.0

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 0 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.9 PK                 | 74.0           | -16.1       | 2.52 H             | 320                  | 24.1             | 33.8                     |
| 2                                                   | 2390.00     | 46.7 AV                 | 54.0           | -7.3        | 2.52 H             | 320                  | 12.9             | 33.8                     |
| 3                                                   | *2402.00    | 84.3 PK                 |                |             | 2.32 H             | 300                  | 50.6             | 33.7                     |
| 4                                                   | *2402.00    | 71.2 AV                 |                |             | 2.32 H             | 300                  | 37.5             | 33.7                     |
| 5                                                   | 4804.00     | 51.0 PK                 | 74.0           | -23.0       | 1.02 H             | 122                  | 37.7             | 13.3                     |
| 6                                                   | 4804.00     | 40.6 AV                 | 54.0           | -13.4       | 1.02 H             | 122                  | 27.3             | 13.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 58.5 PK                 | 74.0           | -15.5       | 2.89 V             | 350                  | 24.7             | 33.8                     |
| 2                                                   | 2390.00     | 47.7 AV                 | 54.0           | -6.3        | 2.89 V             | 350                  | 13.9             | 33.8                     |
| 3                                                   | *2402.00    | 98.3 PK                 |                |             | 2.91 V             | 357                  | 64.6             | 33.7                     |
| 4                                                   | *2402.00    | 83.9 AV                 |                |             | 2.91 V             | 357                  | 50.2             | 33.7                     |
| 5                                                   | 4804.00     | 51.4 PK                 | 74.0           | -22.6       | 1.51 V             | 152                  | 38.1             | 13.3                     |
| 6                                                   | 4804.00     | 41.0 AV                 | 54.0           | -13.0       | 1.51 V             | 152                  | 27.7             | 13.3                     |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 19 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 84.0 PK                 |                |             | 3.65 H             | 300                  | 50.2             | 33.8                     |
| 2                                                   | *2440.00    | 69.8 AV                 |                |             | 3.65 H             | 300                  | 36.0             | 33.8                     |
| 3                                                   | 4880.00     | 51.4 PK                 | 74.0           | -22.6       | 2.22 H             | 21                   | 38.2             | 13.2                     |
| 4                                                   | 4880.00     | 40.0 AV                 | 54.0           | -14.0       | 2.22 H             | 21                   | 26.8             | 13.2                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 98.0 PK                 |                |             | 2.91 V             | 339                  | 64.2             | 33.8                     |
| 2                                                   | *2440.00    | 83.8 AV                 |                |             | 2.91 V             | 339                  | 50.0             | 33.8                     |
| 3                                                   | 4880.00     | 51.8 PK                 | 74.0           | -22.2       | 2.52 V             | 263                  | 38.6             | 13.2                     |
| 4                                                   | 4880.00     | 40.7 AV                 | 54.0           | -13.3       | 2.52 V             | 263                  | 27.5             | 13.2                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 85.2 PK                 |                |             | 3.77 H             | 299                  | 51.3             | 33.9                     |
| 2                                                   | *2480.00    | 73.8 AV                 |                |             | 3.77 H             | 299                  | 39.9             | 33.9                     |
| 3                                                   | 2483.50     | 58.7 PK                 | 74.0           | -15.3       | 2.52 H             | 300                  | 24.8             | 33.9                     |
| 4                                                   | 2483.50     | 48.1 AV                 | 54.0           | -5.9        | 2.52 H             | 300                  | 14.2             | 33.9                     |
| 5                                                   | 4960.00     | 52.0 PK                 | 74.0           | -22.0       | 3.33 H             | 101                  | 38.5             | 13.5                     |
| 6                                                   | 4960.00     | 40.4 AV                 | 54.0           | -13.6       | 3.33 H             | 101                  | 26.9             | 13.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 98.4 PK                 |                |             | 2.91 V             | 341                  | 64.5             | 33.9                     |
| 2                                                   | *2480.00    | 84.0 AV                 |                |             | 2.91 V             | 341                  | 50.1             | 33.9                     |
| 3                                                   | 2483.50     | 58.9 PK                 | 74.0           | -15.1       | 2.99 V             | 344                  | 25.0             | 33.9                     |
| 4                                                   | 2483.50     | 49.3 AV                 | 54.0           | -4.7        | 2.99 V             | 344                  | 15.4             | 33.9                     |
| 5                                                   | 4960.00     | 52.2 PK                 | 74.0           | -21.8       | 2.56 V             | 122                  | 38.7             | 13.5                     |
| 6                                                   | 4960.00     | 41.0 AV                 | 54.0           | -13.0       | 2.56 V             | 122                  | 27.5             | 13.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

# Test Mode G (BT-Directional antenna)

## BT LE 4.0

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 0 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.0 PK                 | 74.0           | -17.0       | 2.88 H             | 11                   | 23.2             | 33.8                     |
| 2                                                   | 2390.00     | 45.8 AV                 | 54.0           | -8.2        | 2.88 H             | 11                   | 12.0             | 33.8                     |
| 3                                                   | *2402.00    | 89.5 PK                 |                |             | 2.71 H             | 14                   | 55.8             | 33.7                     |
| 4                                                   | *2402.00    | 84.2 AV                 |                |             | 2.71 H             | 14                   | 50.5             | 33.7                     |
| 5                                                   | 4804.00     | 51.1 PK                 | 74.0           | -22.9       | 2.52 H             | 322                  | 37.8             | 13.3                     |
| 6                                                   | 4804.00     | 39.1 AV                 | 54.0           | -14.9       | 2.52 H             | 322                  | 25.8             | 13.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.4 PK                 | 74.0           | -16.6       | 3.12 V             | 15                   | 23.6             | 33.8                     |
| 2                                                   | 2390.00     | 46.1 AV                 | 54.0           | -7.9        | 3.12 V             | 15                   | 12.3             | 33.8                     |
| 3                                                   | *2402.00    | 103.5 PK                |                |             | 3.05 V             | 8                    | 69.8             | 33.7                     |
| 4                                                   | *2402.00    | 98.2 AV                 |                |             | 3.05 V             | 8                    | 64.5             | 33.7                     |
| 5                                                   | 4804.00     | 51.2 PK                 | 74.0           | -22.8       | 2.52 V             | 115                  | 37.9             | 13.3                     |
| 6                                                   | 4804.00     | 38.9 AV                 | 54.0           | -15.1       | 2.52 V             | 115                  | 25.6             | 13.3                     |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 19 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 89.0 PK                 |                |             | 2.86 H             | 21                   | 55.2             | 33.8                     |
| 2                                                   | *2440.00    | 84.1 AV                 |                |             | 2.86 H             | 21                   | 50.3             | 33.8                     |
| 3                                                   | 4880.00     | 51.3 PK                 | 74.0           | -22.7       | 2.52 H             | 142                  | 38.1             | 13.2                     |
| 4                                                   | 4880.00     | 38.4 AV                 | 54.0           | -15.6       | 2.52 H             | 142                  | 25.2             | 13.2                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 103.0 PK                |                |             | 3.08 V             | 6                    | 69.2             | 33.8                     |
| 2                                                   | *2440.00    | 98.1 AV                 |                |             | 3.08 V             | 6                    | 64.3             | 33.8                     |
| 3                                                   | 4880.00     | 51.7 PK                 | 74.0           | -22.3       | 2.15 V             | 241                  | 38.5             | 13.2                     |
| 4                                                   | 4880.00     | 38.8 AV                 | 54.0           | -15.2       | 2.15 V             | 241                  | 25.6             | 13.2                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 86.8 PK                 |                |             | 2.89 H             | 30                   | 52.9             | 33.9                     |
| 2                                                   | *2480.00    | 81.9 AV                 |                |             | 2.89 H             | 30                   | 48.0             | 33.9                     |
| 3                                                   | 2483.50     | 59.0 PK                 | 74.0           | -15.0       | 2.70 H             | 15                   | 25.1             | 33.9                     |
| 4                                                   | 2483.50     | 47.1 AV                 | 54.0           | -6.9        | 2.70 H             | 15                   | 13.2             | 33.9                     |
| 5                                                   | 4960.00     | 51.9 PK                 | 74.0           | -22.1       | 1.58 H             | 53                   | 38.4             | 13.5                     |
| 6                                                   | 4960.00     | 39.0 AV                 | 54.0           | -15.0       | 1.58 H             | 53                   | 25.5             | 13.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 100.8 PK                |                |             | 3.24 V             | 10                   | 66.9             | 33.9                     |
| 2                                                   | *2480.00    | 95.9 AV                 |                |             | 3.24 V             | 10                   | 62.0             | 33.9                     |
| 3                                                   | 2483.50     | 59.7 PK                 | 74.0           | -14.3       | 3.15 V             | 15                   | 25.8             | 33.9                     |
| 4                                                   | 2483.50     | 47.7 AV                 | 54.0           | -6.3        | 3.15 V             | 15                   | 13.8             | 33.9                     |
| 5                                                   | 4960.00     | 52.2 PK                 | 74.0           | -21.8       | 2.22 V             | 152                  | 38.7             | 13.5                     |
| 6                                                   | 4960.00     | 39.3 AV                 | 54.0           | -14.7       | 2.22 V             | 152                  | 25.8             | 13.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.



# BT LE 5.0

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 0 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 56.7 PK                 | 74.0           | -17.3       | 3.00 H             | 35                   | 22.9             | 33.8                     |
| 2                                                   | 2390.00     | 45.9 AV                 | 54.0           | -8.1        | 3.00 H             | 35                   | 12.1             | 33.8                     |
| 3                                                   | *2402.00    | 88.8 PK                 |                |             | 2.71 H             | 10                   | 55.1             | 33.7                     |
| 4                                                   | *2402.00    | 86.0 AV                 |                |             | 2.71 H             | 10                   | 52.3             | 33.7                     |
| 5                                                   | 4804.00     | 51.4 PK                 | 74.0           | -22.6       | 2.11 H             | 174                  | 38.1             | 13.3                     |
| 6                                                   | 4804.00     | 38.3 AV                 | 54.0           | -15.7       | 2.11 H             | 174                  | 25.0             | 13.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 57.0 PK                 | 74.0           | -17.0       | 3.00 V             | 12                   | 23.2             | 33.8                     |
| 2                                                   | 2390.00     | 46.3 AV                 | 54.0           | -7.7        | 3.00 V             | 12                   | 12.5             | 33.8                     |
| 3                                                   | *2402.00    | 102.8 PK                |                |             | 3.04 V             | 5                    | 69.1             | 33.7                     |
| 4                                                   | *2402.00    | 100.0 AV                |                |             | 3.04 V             | 5                    | 66.3             | 33.7                     |
| 5                                                   | 4804.00     | 51.7 PK                 | 74.0           | -22.3       | 3.00 V             | 12                   | 38.4             | 13.3                     |
| 6                                                   | 4804.00     | 38.4 AV                 | 54.0           | -15.6       | 3.00 V             | 12                   | 25.1             | 13.3                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 19 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 89.1 PK                 |                |             | 2.75 H             | 20                   | 55.3             | 33.8                     |
| 2                                                   | *2440.00    | 86.4 AV                 |                |             | 2.75 H             | 20                   | 52.6             | 33.8                     |
| 3                                                   | 4880.00     | 51.2 PK                 | 74.0           | -22.8       | 2.15 H             | 241                  | 38.0             | 13.2                     |
| 4                                                   | 4880.00     | 38.3 AV                 | 54.0           | -15.7       | 2.15 H             | 241                  | 25.1             | 13.2                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2440.00    | 103.1 PK                |                |             | 3.09 V             | 2                    | 69.3             | 33.8                     |
| 2                                                   | *2440.00    | 100.4 AV                |                |             | 3.09 V             | 2                    | 66.6             | 33.8                     |
| 3                                                   | 4880.00     | 51.4 PK                 | 74.0           | -22.6       | 2.58 V             | 241                  | 38.2             | 13.2                     |
| 4                                                   | 4880.00     | 38.8 AV                 | 54.0           | -15.2       | 2.58 V             | 241                  | 25.6             | 13.2                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

|                 |               |                   |                           |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz  |                   |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 86.6 PK                 |                |             | 2.80 H             | 21                   | 52.7             | 33.9                     |
| 2                                                   | *2480.00    | 83.6 AV                 |                |             | 2.80 H             | 21                   | 49.7             | 33.9                     |
| 3                                                   | 2483.50     | 57.5 PK                 | 74.0           | -16.5       | 2.79 H             | 14                   | 23.6             | 33.9                     |
| 4                                                   | 2483.50     | 47.4 AV                 | 54.0           | -6.6        | 2.79 H             | 14                   | 13.5             | 33.9                     |
| 5                                                   | 4960.00     | 51.6 PK                 | 74.0           | -22.4       | 1.52 H             | 144                  | 38.1             | 13.5                     |
| 6                                                   | 4960.00     | 38.7 AV                 | 54.0           | -15.3       | 1.52 H             | 144                  | 25.2             | 13.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2480.00    | 100.4 PK                |                |             | 3.35 V             | 10                   | 66.5             | 33.9                     |
| 2                                                   | *2480.00    | 97.9 AV                 |                |             | 3.35 V             | 10                   | 64.0             | 33.9                     |
| 3                                                   | 2483.50     | 61.4 PK                 | 74.0           | -12.6       | 3.25 V             | 12                   | 27.5             | 33.9                     |
| 4                                                   | 2483.50     | 50.4 AV                 | 54.0           | -3.6        | 3.25 V             | 12                   | 16.5             | 33.9                     |
| 5                                                   | 4960.00     | 51.9 PK                 | 74.0           | -22.1       | 2.51 V             | 142                  | 38.4             | 13.5                     |
| 6                                                   | 4960.00     | 38.8 AV                 | 54.0           | -15.2       | 2.51 V             | 142                  | 25.3             | 13.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

Below 1GHz worst-case data:

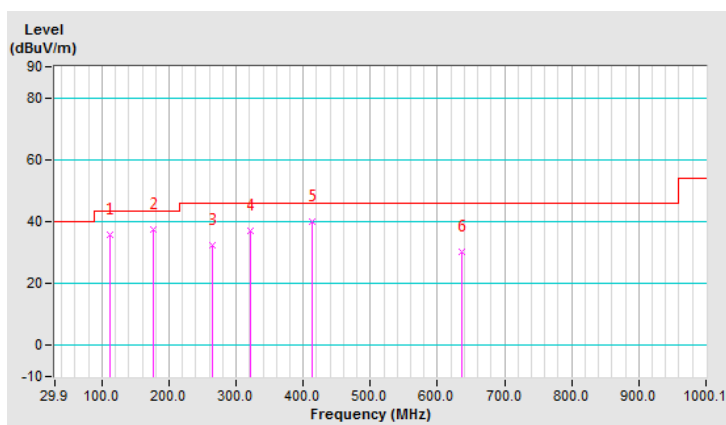
Test Mode A (BT-Omni antenna)

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 111.56      | 35.8 QP                 | 43.5           | -7.7        | 1.50 H             | 72                   | 47.7             | -11.9                    |
| 2                                                   | 175.72      | 37.5 QP                 | 43.5           | -6.0        | 1.00 H             | 68                   | 47.3             | -9.8                     |
| 3                                                   | 265.16      | 32.5 QP                 | 46.0           | -13.5       | 1.00 H             | 108                  | 41.5             | -9.0                     |
| 4                                                   | 321.54      | 37.0 QP                 | 46.0           | -9.0        | 1.50 H             | 171                  | 44.4             | -7.4                     |
| 5                                                   | 412.92      | 39.9 QP                 | 46.0           | -6.1        | 2.00 H             | 199                  | 46.3             | -6.4                     |
| 6                                                   | 636.52      | 30.1 QP                 | 46.0           | -15.9       | 1.00 H             | 98                   | 31.8             | -1.7                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

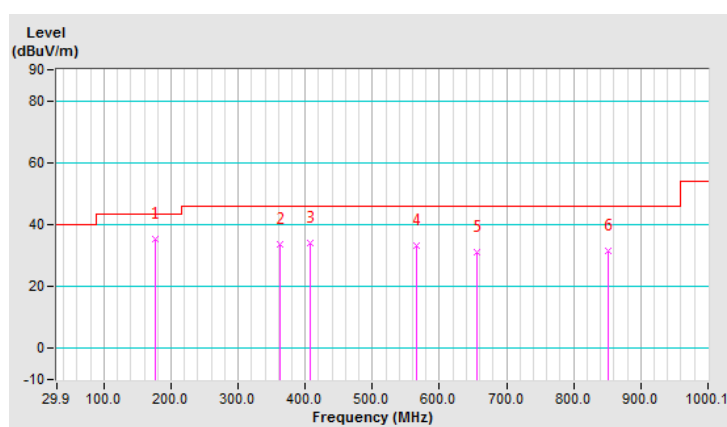


|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                               | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                 | 175.72      | 35.2 QP                 | 43.5           | -8.3        | 1.50 V             | 263                  | 45.0             | -9.8                     |
| 2                                                 | 362.37      | 33.8 QP                 | 46.0           | -12.2       | 1.00 V             | 224                  | 41.0             | -7.2                     |
| 3                                                 | 407.09      | 34.0 QP                 | 46.0           | -12.0       | 1.00 V             | 263                  | 40.5             | -6.5                     |
| 4                                                 | 566.52      | 33.2 QP                 | 46.0           | -12.8       | 1.50 V             | 99                   | 37.0             | -3.8                     |
| 5                                                 | 655.96      | 31.0 QP                 | 46.0           | -15.0       | 1.00 V             | 190                  | 32.5             | -1.5                     |
| 6                                                 | 852.33      | 31.4 QP                 | 46.0           | -14.6       | 1.00 V             | 190                  | 28.8             | 2.6                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



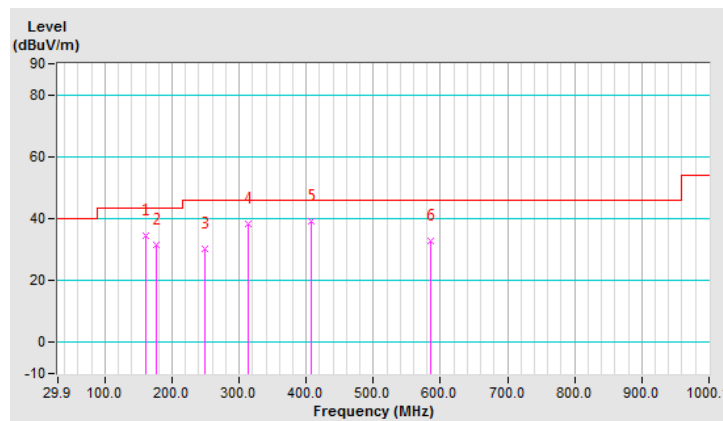
### Test Mode B (BT-Omni antenna)

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 160.17      | 34.7 QP                 | 43.5           | -8.8        | 1.00 H             | 92                   | 43.6             | -8.9                     |
| 2                                                   | 175.72      | 31.7 QP                 | 43.5           | -11.8       | 1.00 H             | 79                   | 41.5             | -9.8                     |
| 3                                                   | 249.60      | 30.4 QP                 | 46.0           | -15.6       | 1.50 H             | 96                   | 39.8             | -9.4                     |
| 4                                                   | 313.77      | 38.3 QP                 | 46.0           | -7.7        | 1.50 H             | 171                  | 45.8             | -7.5                     |
| 5                                                   | 407.09      | 39.2 QP                 | 46.0           | -6.8        | 1.00 H             | 194                  | 45.7             | -6.5                     |
| 6                                                   | 585.97      | 32.9 QP                 | 46.0           | -13.1       | 1.00 H             | 107                  | 35.9             | -3.0                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

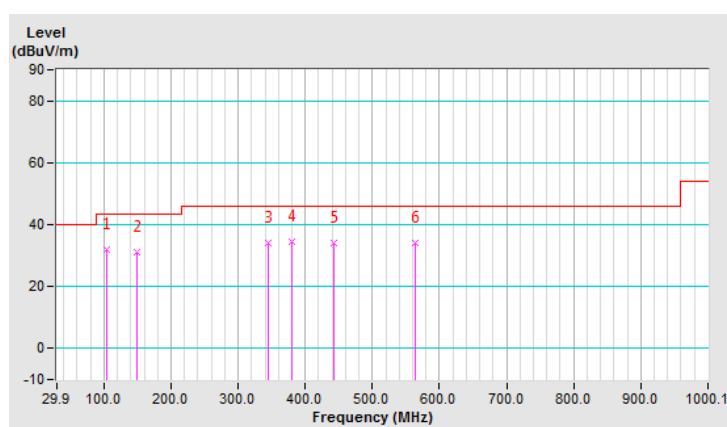


|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                               | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                 | 103.78      | 31.8 QP                 | 43.5           | -11.7       | 1.00 V             | 7                    | 44.5             | -12.7                    |
| 2                                                 | 148.50      | 30.9 QP                 | 43.5           | -12.6       | 1.00 V             | 7                    | 39.7             | -8.8                     |
| 3                                                 | 344.87      | 33.9 QP                 | 46.0           | -12.1       | 1.00 V             | 116                  | 41.3             | -7.4                     |
| 4                                                 | 379.87      | 34.4 QP                 | 46.0           | -11.6       | 2.00 V             | 200                  | 41.2             | -6.8                     |
| 5                                                 | 442.09      | 34.1 QP                 | 46.0           | -11.9       | 1.50 V             | 203                  | 39.9             | -5.8                     |
| 6                                                 | 564.58      | 34.2 QP                 | 46.0           | -11.8       | 1.00 V             | 100                  | 38.1             | -3.9                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



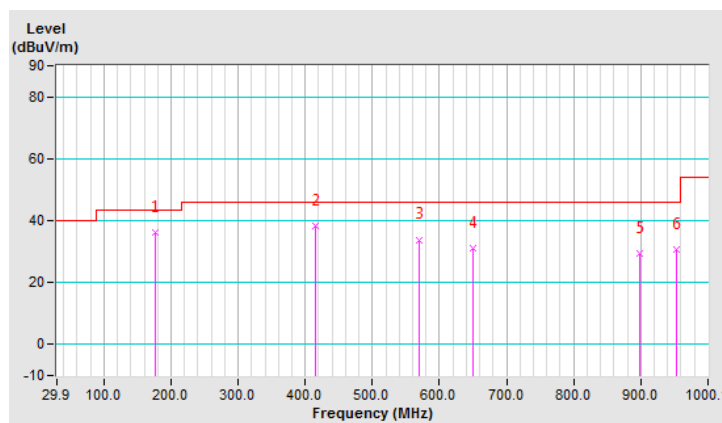
### Test Mode C (BT-Directional antenna)

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 175.72      | 36.2 QP                 | 43.5           | -7.3        | 2.00 H             | 98                   | 46.0             | -9.8                     |
| 2                                                   | 414.87      | 38.2 QP                 | 46.0           | -7.8        | 1.00 H             | 196                  | 44.6             | -6.4                     |
| 3                                                   | 570.41      | 33.9 QP                 | 46.0           | -12.1       | 1.00 H             | 104                  | 37.5             | -3.6                     |
| 4                                                   | 650.13      | 31.3 QP                 | 46.0           | -14.7       | 2.00 H             | 95                   | 32.9             | -1.6                     |
| 5                                                   | 899.00      | 29.4 QP                 | 46.0           | -16.6       | 1.00 H             | 351                  | 26.0             | 3.4                      |
| 6                                                   | 953.44      | 30.6 QP                 | 46.0           | -15.4       | 1.00 H             | 85                   | 26.3             | 4.3                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



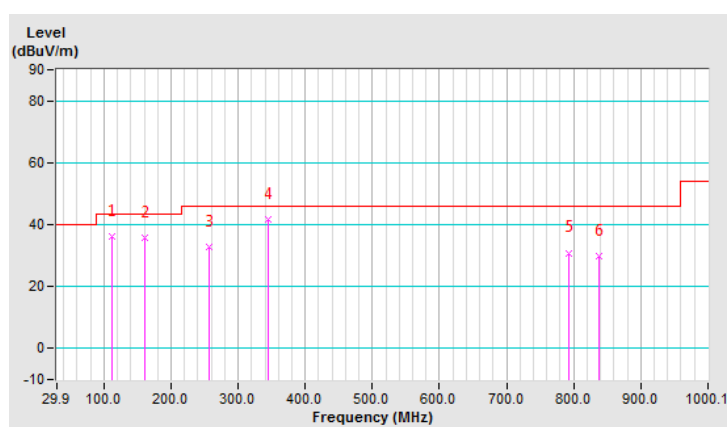


|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                               | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                 | 111.56      | 36.3 QP                 | 43.5           | -7.2        | 1.50 V             | 70                   | 48.2             | -11.9                    |
| 2                                                 | 160.17      | 35.7 QP                 | 43.5           | -7.8        | 1.00 V             | 57                   | 44.6             | -8.9                     |
| 3                                                 | 257.38      | 32.7 QP                 | 46.0           | -13.3       | 1.00 V             | 87                   | 41.9             | -9.2                     |
| 4                                                 | 344.87      | 41.8 QP                 | 46.0           | -4.2        | 1.50 V             | 168                  | 49.2             | -7.4                     |
| 5                                                 | 792.06      | 30.9 QP                 | 46.0           | -15.1       | 1.00 V             | 204                  | 29.2             | 1.7                      |
| 6                                                 | 838.72      | 29.7 QP                 | 46.0           | -16.3       | 1.00 V             | 334                  | 27.3             | 2.4                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



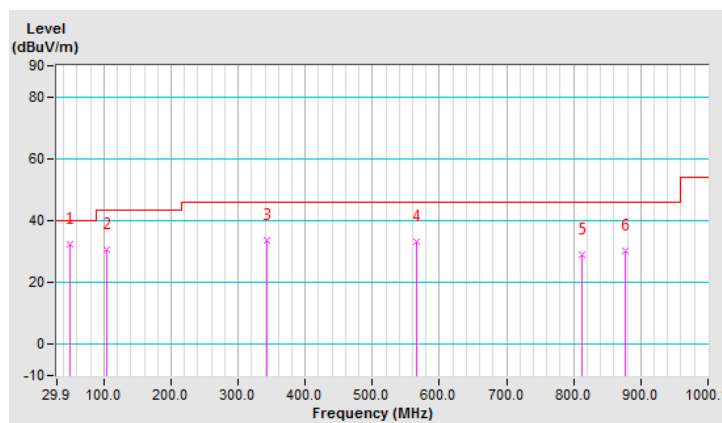
# Test Mode D (BT-Directional antenna)

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 49.34       | 32.3 QP                 | 40.0           | -7.7        | 1.50 H             | 95                   | 41.2             | -8.9                     |
| 2                                                   | 103.78      | 30.6 QP                 | 43.5           | -12.9       | 1.00 H             | 255                  | 43.3             | -12.7                    |
| 3                                                   | 342.93      | 33.7 QP                 | 46.0           | -12.3       | 1.00 H             | 112                  | 41.1             | -7.4                     |
| 4                                                   | 566.52      | 33.2 QP                 | 46.0           | -12.8       | 1.50 H             | 103                  | 37.0             | -3.8                     |
| 5                                                   | 811.50      | 28.8 QP                 | 46.0           | -17.2       | 1.00 H             | 91                   | 26.8             | 2.0                      |
| 6                                                   | 877.61      | 30.3 QP                 | 46.0           | -15.7       | 1.00 H             | 169                  | 27.4             | 2.9                      |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

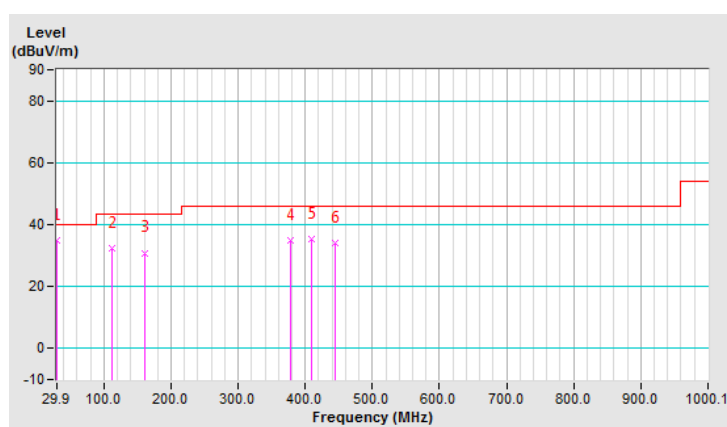


|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                               | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                 | 29.90       | 34.8 QP                 | 40.0           | -5.2        | 1.50 V             | 137                  | 45.9             | -11.1                    |
| 2                                                 | 111.56      | 32.3 QP                 | 43.5           | -11.2       | 1.00 V             | 304                  | 44.2             | -11.9                    |
| 3                                                 | 160.17      | 30.9 QP                 | 43.5           | -12.6       | 1.00 V             | 252                  | 39.8             | -8.9                     |
| 4                                                 | 377.93      | 35.0 QP                 | 46.0           | -11.0       | 1.50 V             | 196                  | 41.9             | -6.9                     |
| 5                                                 | 409.04      | 35.5 QP                 | 46.0           | -10.5       | 1.00 V             | 286                  | 41.9             | -6.4                     |
| 6                                                 | 444.03      | 34.2 QP                 | 46.0           | -11.8       | 1.00 V             | 191                  | 40.0             | -5.8                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



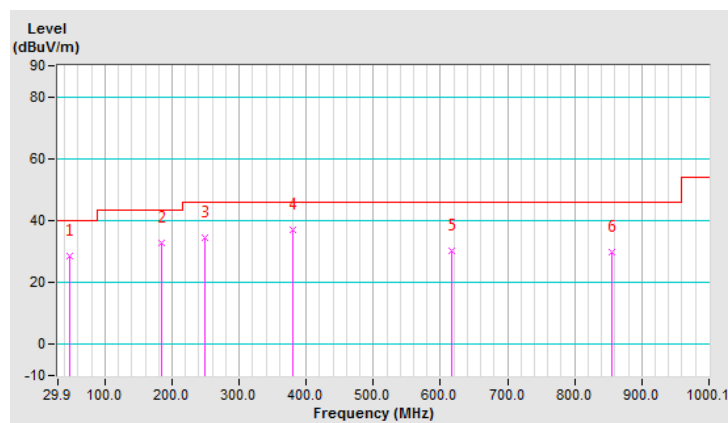
### Test Mode E (BT-Omni antenna)

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 47.36       | 28.7 QP                 | 40.0           | -11.3       | 1.00 H             | 3                    | 37.7             | -9.0                     |
| 2                                                   | 185.13      | 32.7 QP                 | 43.5           | -10.8       | 1.00 H             | 324                  | 43.5             | -10.8                    |
| 3                                                   | 249.17      | 34.5 QP                 | 46.0           | -11.5       | 2.00 H             | 201                  | 43.9             | -9.4                     |
| 4                                                   | 379.17      | 37.2 QP                 | 46.0           | -8.8        | 1.50 H             | 83                   | 44.0             | -6.8                     |
| 5                                                   | 615.90      | 30.1 QP                 | 46.0           | -15.9       | 1.50 H             | 247                  | 32.1             | -2.0                     |
| 6                                                   | 854.57      | 29.9 QP                 | 46.0           | -16.1       | 1.00 H             | 11                   | 27.3             | 2.6                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

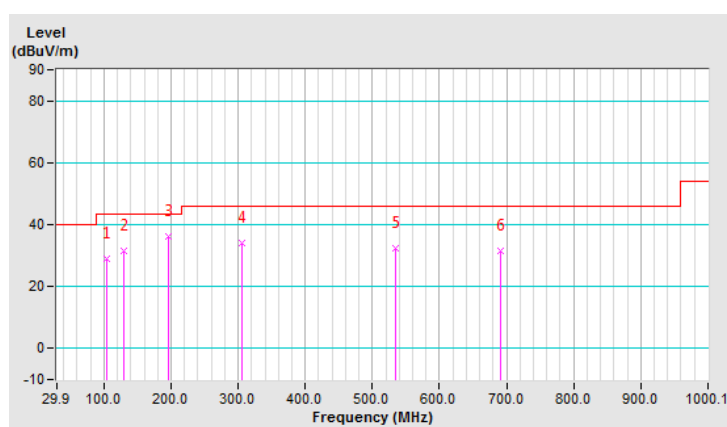


|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                               | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                 | 103.64      | 29.1 QP                 | 43.5           | -14.4       | 1.50 V             | 305                  | 41.8             | -12.7                    |
| 2                                                 | 128.86      | 31.6 QP                 | 43.5           | -11.9       | 1.50 V             | 334                  | 42.0             | -10.4                    |
| 3                                                 | 196.77      | 36.0 QP                 | 43.5           | -7.5        | 1.00 V             | 133                  | 47.3             | -11.3                    |
| 4                                                 | 305.44      | 34.2 QP                 | 46.0           | -11.8       | 1.00 V             | 70                   | 42.1             | -7.9                     |
| 5                                                 | 534.40      | 32.5 QP                 | 46.0           | -13.5       | 2.00 V             | 203                  | 36.9             | -4.4                     |
| 6                                                 | 691.58      | 31.6 QP                 | 46.0           | -14.4       | 1.00 V             | 342                  | 32.4             | -0.8                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



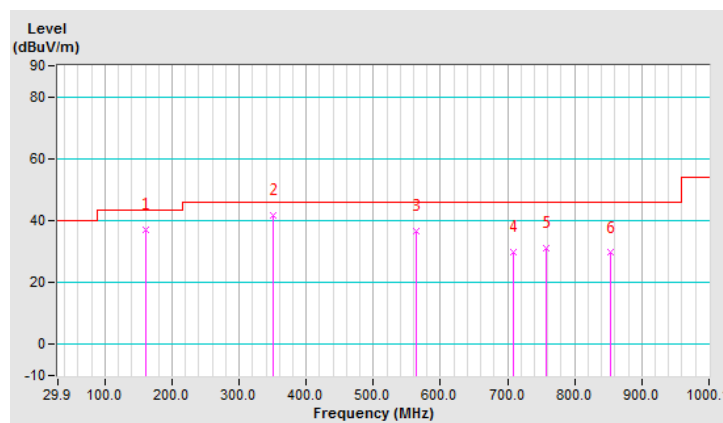
### Test Mode F (BT-Omni antenna)

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 160.17      | 37.2 QP                 | 43.5           | -6.3        | 1.50 H             | 43                   | 46.1             | -8.9                     |
| 2                                                   | 350.71      | 41.9 QP                 | 46.0           | -4.1        | 1.00 H             | 145                  | 49.2             | -7.3                     |
| 3                                                   | 564.58      | 36.7 QP                 | 46.0           | -9.3        | 1.50 H             | 334                  | 40.6             | -3.9                     |
| 4                                                   | 708.46      | 29.8 QP                 | 46.0           | -16.2       | 1.50 H             | 13                   | 30.1             | -0.3                     |
| 5                                                   | 757.06      | 30.9 QP                 | 46.0           | -15.1       | 1.00 H             | 239                  | 29.7             | 1.2                      |
| 6                                                   | 854.28      | 29.6 QP                 | 46.0           | -16.4       | 1.50 H             | 220                  | 27.0             | 2.6                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

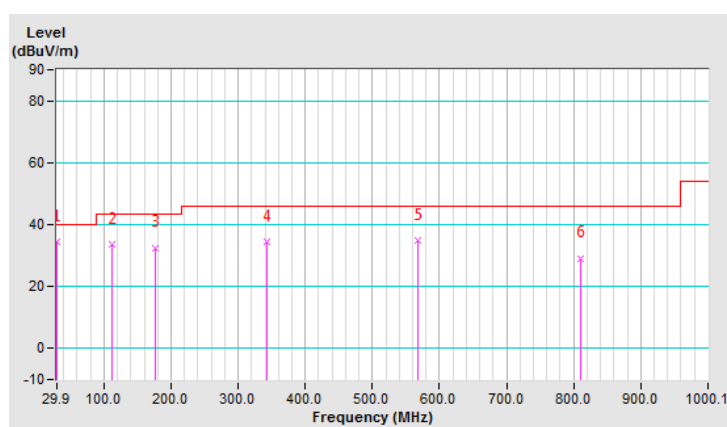


|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                               | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                 | 29.90       | 34.5 QP                 | 40.0           | -5.5        | 1.01 V             | 139                  | 45.6             | -11.1                    |
| 2                                                 | 111.56      | 33.7 QP                 | 43.5           | -9.8        | 1.50 V             | 289                  | 45.6             | -11.9                    |
| 3                                                 | 175.72      | 32.6 QP                 | 43.5           | -10.9       | 1.50 V             | 134                  | 42.4             | -9.8                     |
| 4                                                 | 342.93      | 34.6 QP                 | 46.0           | -11.4       | 1.01 V             | 103                  | 42.0             | -7.4                     |
| 5                                                 | 568.47      | 34.9 QP                 | 46.0           | -11.1       | 1.01 V             | 103                  | 38.7             | -3.8                     |
| 6                                                 | 809.56      | 29.2 QP                 | 46.0           | -16.8       | 1.01 V             | 67                   | 27.2             | 2.0                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



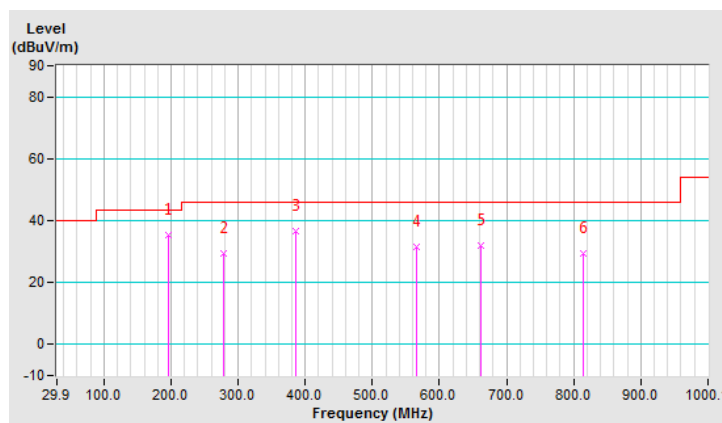
# Test Mode G (BT-Directional antenna)

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 196.77      | 35.4 QP                 | 43.5           | -8.1        | 1.50 H             | 120                  | 46.7             | -11.3                    |
| 2                                                   | 278.27      | 29.5 QP                 | 46.0           | -16.5       | 1.00 H             | 292                  | 37.9             | -8.4                     |
| 3                                                   | 384.99      | 36.6 QP                 | 46.0           | -9.4        | 1.00 H             | 74                   | 43.4             | -6.8                     |
| 4                                                   | 565.45      | 31.6 QP                 | 46.0           | -14.4       | 1.50 H             | 166                  | 35.4             | -3.8                     |
| 5                                                   | 662.47      | 31.8 QP                 | 46.0           | -14.2       | 1.00 H             | 166                  | 33.2             | -1.4                     |
| 6                                                   | 813.82      | 29.5 QP                 | 46.0           | -16.5       | 1.00 H             | 185                  | 27.5             | 2.0                      |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



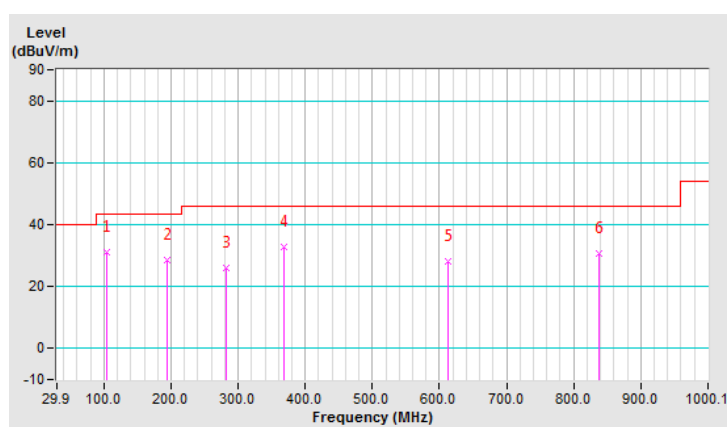


|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                               | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                 | 103.64      | 31.1 QP                 | 43.5           | -12.4       | 1.00 V             | 196                  | 43.8             | -12.7                    |
| 2                                                 | 194.83      | 28.4 QP                 | 43.5           | -15.1       | 1.00 V             | 194                  | 39.7             | -11.3                    |
| 3                                                 | 282.15      | 26.0 QP                 | 46.0           | -20.0       | 2.00 V             | 114                  | 34.3             | -8.3                     |
| 4                                                 | 367.53      | 32.8 QP                 | 46.0           | -13.2       | 2.00 V             | 280                  | 39.8             | -7.0                     |
| 5                                                 | 612.02      | 28.2 QP                 | 46.0           | -17.8       | 1.00 V             | 325                  | 30.3             | -2.1                     |
| 6                                                 | 837.11      | 30.8 QP                 | 46.0           | -15.2       | 1.00 V             | 231                  | 28.4             | 2.4                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



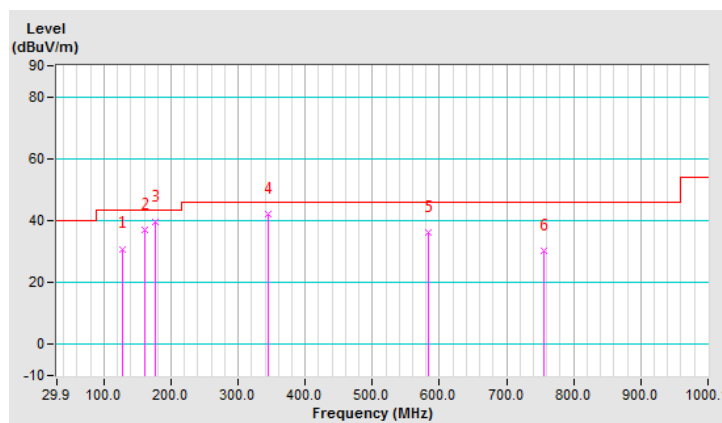
# Test Mode H (BT-Directional antenna)

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 127.11      | 30.9 QP                 | 43.5           | -12.6       | 1.50 H             | 54                   | 41.5             | -10.6                    |
| 2                                                   | 160.17      | 37.0 QP                 | 43.5           | -6.5        | 1.50 H             | 66                   | 45.9             | -8.9                     |
| 3                                                   | 175.72      | 39.7 QP                 | 43.5           | -3.8        | 1.50 H             | 234                  | 49.5             | -9.8                     |
| 4                                                   | 344.87      | 42.0 QP                 | 46.0           | -4.0        | 1.01 H             | 154                  | 49.4             | -7.4                     |
| 5                                                   | 584.02      | 36.3 QP                 | 46.0           | -9.7        | 1.50 H             | 113                  | 39.4             | -3.1                     |
| 6                                                   | 755.12      | 30.1 QP                 | 46.0           | -15.9       | 1.01 H             | 184                  | 29.0             | 1.1                      |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

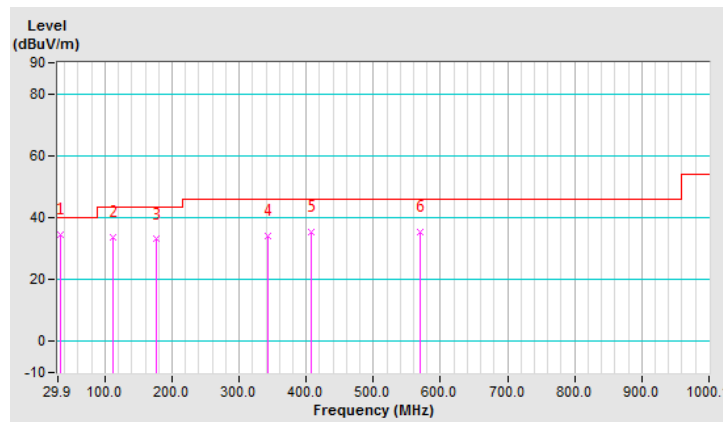


|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz   |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                               | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                 | 33.79       | 34.7 QP                 | 40.0           | -5.3        | 1.50 V             | 32                   | 45.3             | -10.6                    |
| 2                                                 | 111.56      | 33.6 QP                 | 43.5           | -9.9        | 1.00 V             | 280                  | 45.5             | -11.9                    |
| 3                                                 | 175.72      | 33.0 QP                 | 43.5           | -10.5       | 1.50 V             | 140                  | 42.8             | -9.8                     |
| 4                                                 | 342.93      | 34.2 QP                 | 46.0           | -11.8       | 1.00 V             | 110                  | 41.6             | -7.4                     |
| 5                                                 | 407.09      | 35.4 QP                 | 46.0           | -10.6       | 1.00 V             | 257                  | 41.9             | -6.5                     |
| 6                                                 | 570.41      | 35.2 QP                 | 46.0           | -10.8       | 1.00 V             | 110                  | 38.8             | -3.6                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Note: 1. The lower limit shall apply at the transition frequencies.  
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

| Description & Manufacturer              | Model No.             | Serial No.     | Cal. Date     | Cal. Due      |
|-----------------------------------------|-----------------------|----------------|---------------|---------------|
| Test Receiver<br>ROHDE & SCHWARZ        | ESCS 30               | 100288         | Jan. 03, 2019 | Jan. 02, 2020 |
| RF signal cable<br>Woken                | 5D-FB                 | Cable-cond1-01 | Sep. 05, 2018 | Sep. 04, 2019 |
| LISN<br>ROHDE & SCHWARZ<br>(EUT)        | ENV216                | 101826         | Feb. 21, 2019 | Feb. 20, 2020 |
| LISN<br>ROHDE & SCHWARZ<br>(Peripheral) | ESH3-Z5               | 100311         | Aug. 19, 2018 | Aug. 18, 2019 |
| Software<br>ADT                         | BV ADT_Conf_ V7.3.7.4 | NA             | NA            | NA            |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. The test was performed in HwaYa Shielded Room 1.  
3. The VCCI Site Registration No. is C-12040.

#### 4.2.3 Test Procedures

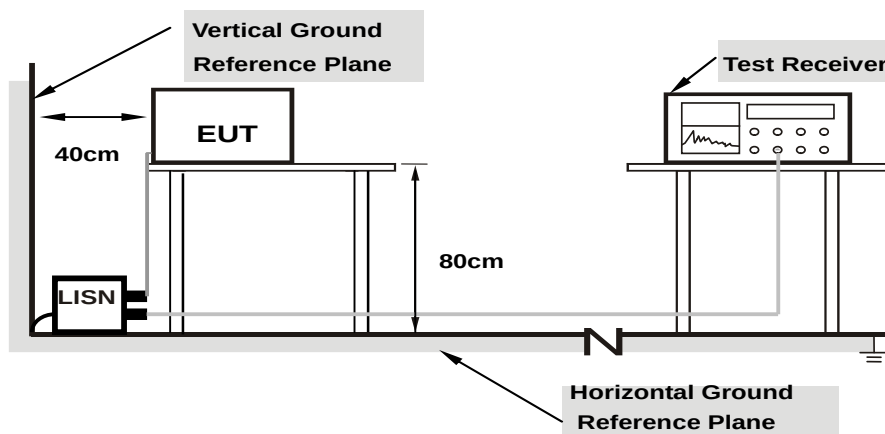
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT Operating Conditions

Same as 4.1.6.

#### 4.2.7 Test Results

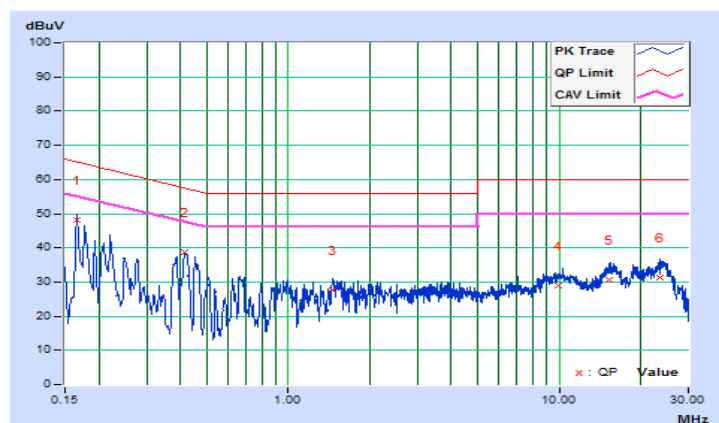
##### Test Mode A (BT-Omni antenna)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) /<br>Average (AV) |
|-------|----------|-------------------|-----------------------------------|
|-------|----------|-------------------|-----------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.16569        | 9.66                    | 38.49                      | 26.58 | 48.15                       | 36.24 | 65.17              | 55.17 | -17.02         | -18.93 |
| 2  | 0.41560        | 9.65                    | 29.04                      | 22.26 | 38.69                       | 31.91 | 57.54              | 47.54 | -18.85         | -15.63 |
| 3  | 1.45594        | 9.65                    | 18.05                      | 10.37 | 27.70                       | 20.02 | 56.00              | 46.00 | -28.30         | -25.98 |
| 4  | 9.94846        | 9.83                    | 19.03                      | 13.43 | 28.86                       | 23.26 | 60.00              | 50.00 | -31.14         | -26.74 |
| 5  | 15.38727       | 9.86                    | 20.78                      | 15.17 | 30.64                       | 25.03 | 60.00              | 50.00 | -29.36         | -24.97 |
| 6  | 23.70384       | 9.88                    | 21.53                      | 16.23 | 31.41                       | 26.11 | 60.00              | 50.00 | -28.59         | -23.89 |

##### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

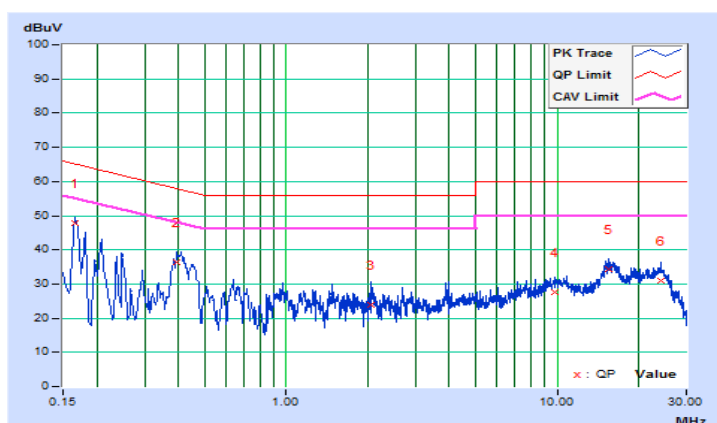


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.16569        | 9.66                    | 38.02                      | 25.97 | 47.68                       | 35.63 | 65.17              | 55.17 | -17.49         | -19.54 |
| 2  | 0.39635        | 9.65                    | 26.57                      | 13.47 | 36.22                       | 23.12 | 57.93              | 47.93 | -21.71         | -24.81 |
| 3  | 2.06199        | 9.66                    | 14.27                      | 6.01  | 23.93                       | 15.67 | 56.00              | 46.00 | -32.07         | -30.33 |
| 4  | 9.79206        | 9.84                    | 17.76                      | 12.08 | 27.60                       | 21.92 | 60.00              | 50.00 | -32.40         | -28.08 |
| 5  | 15.44983       | 9.90                    | 24.35                      | 20.17 | 34.25                       | 30.07 | 60.00              | 50.00 | -25.75         | -19.93 |
| 6  | 24.10266       | 9.96                    | 21.01                      | 15.81 | 30.97                       | 25.77 | 60.00              | 50.00 | -29.03         | -24.23 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



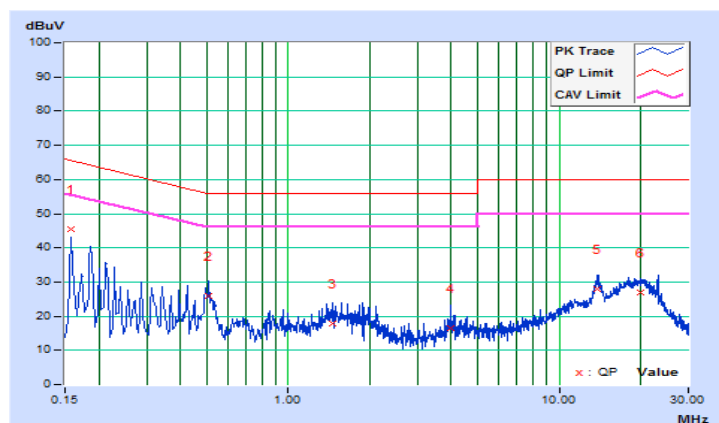
### Test Mode B (BT-Omni antenna)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15782        | 9.66                    | 35.84                      | 21.19 | 45.50                       | 30.85 | 65.58              | 55.58 | -20.08         | -24.73 |
| 2  | 0.50972        | 9.65                    | 16.25                      | 6.33  | 25.90                       | 15.98 | 56.00              | 46.00 | -30.10         | -30.02 |
| 3  | 1.45985        | 9.65                    | 8.03                       | 2.14  | 17.68                       | 11.79 | 56.00              | 46.00 | -38.32         | -34.21 |
| 4  | 3.97398        | 9.71                    | 6.92                       | 0.05  | 16.63                       | 9.76  | 56.00              | 46.00 | -39.37         | -36.24 |
| 5  | 13.85064       | 9.85                    | 18.04                      | 11.85 | 27.89                       | 21.70 | 60.00              | 50.00 | -32.11         | -28.30 |
| 6  | 19.94242       | 9.87                    | 17.17                      | 11.56 | 27.04                       | 21.43 | 60.00              | 50.00 | -32.96         | -28.57 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



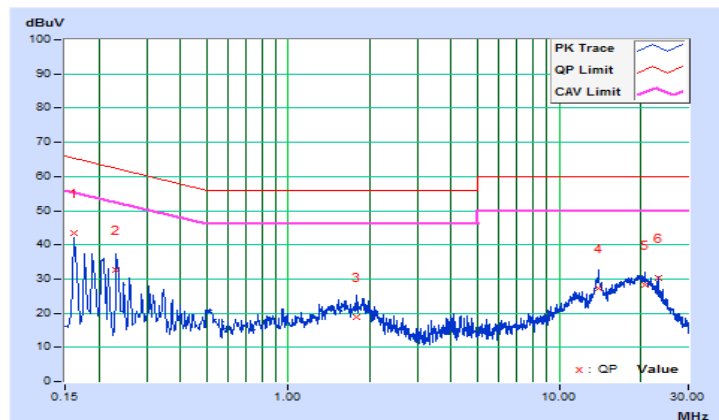


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.16173        | 9.66                    | 33.89                      | 18.28 | 43.55                       | 27.94 | 65.37              | 55.37 | -21.82         | -27.43 |
| 2  | 0.23216        | 9.66                    | 22.91                      | 7.36  | 32.57                       | 17.02 | 62.37              | 52.37 | -29.80         | -35.35 |
| 3  | 1.78829        | 9.65                    | 9.13                       | 2.74  | 18.78                       | 12.39 | 56.00              | 46.00 | -37.22         | -33.61 |
| 4  | 14.01095       | 9.88                    | 17.26                      | 10.79 | 27.14                       | 20.67 | 60.00              | 50.00 | -32.86         | -29.33 |
| 5  | 20.80653       | 9.94                    | 18.34                      | 12.96 | 28.28                       | 22.90 | 60.00              | 50.00 | -31.72         | -27.10 |
| 6  | 23.12907       | 9.96                    | 20.24                      | 16.48 | 30.20                       | 26.44 | 60.00              | 50.00 | -29.80         | -23.56 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



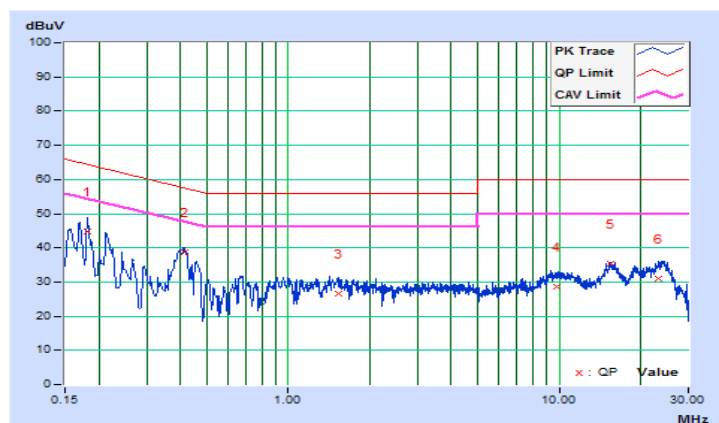
### Test Mode C (BT-Directional antenna)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.18128        | 9.66                    | 35.20                      | 19.67 | 44.86                       | 29.33 | 64.43              | 54.43 | -19.57         | -25.10 |
| 2  | 0.41233        | 9.65                    | 29.11                      | 20.85 | 38.76                       | 30.50 | 57.60              | 47.60 | -18.84         | -17.10 |
| 3  | 1.53414        | 9.65                    | 17.05                      | 10.03 | 26.70                       | 19.68 | 56.00              | 46.00 | -29.30         | -26.32 |
| 4  | 9.79988        | 9.83                    | 18.78                      | 13.29 | 28.61                       | 23.12 | 60.00              | 50.00 | -31.39         | -26.88 |
| 5  | 15.44592       | 9.86                    | 25.39                      | 21.83 | 35.25                       | 31.69 | 60.00              | 50.00 | -24.75         | -18.31 |
| 6  | 23.23855       | 9.88                    | 21.13                      | 15.73 | 31.01                       | 25.61 | 60.00              | 50.00 | -28.99         | -24.39 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

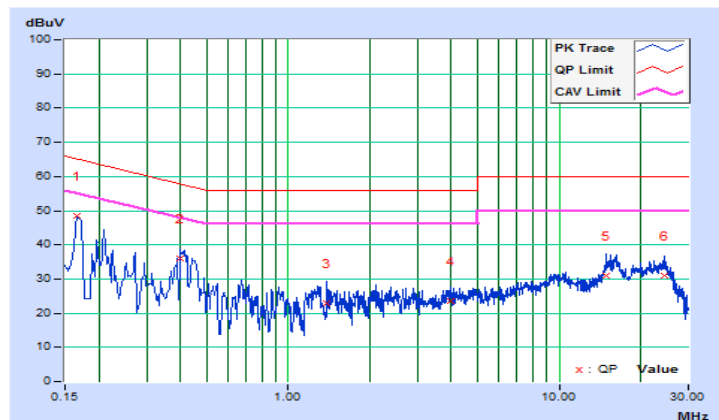


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.16569        | 9.66                    | 38.68                      | 26.52 | 48.34                       | 36.18 | 65.17              | 55.17 | -16.83         | -18.99 |
| 2  | 0.40055        | 9.65                    | 26.24                      | 14.28 | 35.89                       | 23.93 | 57.84              | 47.84 | -21.95         | -23.91 |
| 3  | 1.39338        | 9.64                    | 13.42                      | 5.60  | 23.06                       | 15.24 | 56.00              | 46.00 | -32.94         | -30.76 |
| 4  | 3.98180        | 9.71                    | 13.90                      | 6.88  | 23.61                       | 16.59 | 56.00              | 46.00 | -32.39         | -29.41 |
| 5  | 14.97672       | 9.89                    | 21.15                      | 15.68 | 31.04                       | 25.57 | 60.00              | 50.00 | -28.96         | -24.43 |
| 6  | 24.36463       | 9.97                    | 20.89                      | 15.68 | 30.86                       | 25.65 | 60.00              | 50.00 | -29.14         | -24.35 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



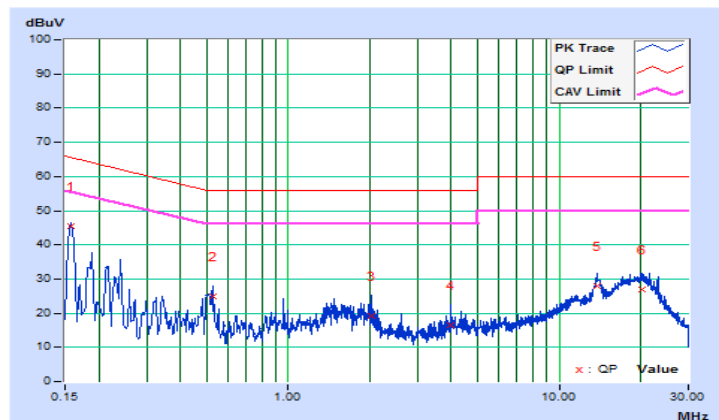
# Test Mode D (BT-Directional antenna)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15802        | 9.66                    | 35.74                      | 20.79 | 45.40                       | 30.45 | 65.57              | 55.57 | -20.17         | -25.12 |
| 2  | 0.52544        | 9.65                    | 15.38                      | 8.60  | 25.03                       | 18.25 | 56.00              | 46.00 | -30.97         | -27.75 |
| 3  | 2.01898        | 9.66                    | 9.57                       | 1.60  | 19.23                       | 11.26 | 56.00              | 46.00 | -36.77         | -34.74 |
| 4  | 3.97789        | 9.71                    | 6.86                       | 1.17  | 16.57                       | 10.88 | 56.00              | 46.00 | -39.43         | -35.12 |
| 5  | 13.84673       | 9.85                    | 18.20                      | 11.98 | 28.05                       | 21.83 | 60.00              | 50.00 | -31.95         | -28.17 |
| 6  | 20.14183       | 9.87                    | 17.13                      | 11.53 | 27.00                       | 21.40 | 60.00              | 50.00 | -33.00         | -28.60 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

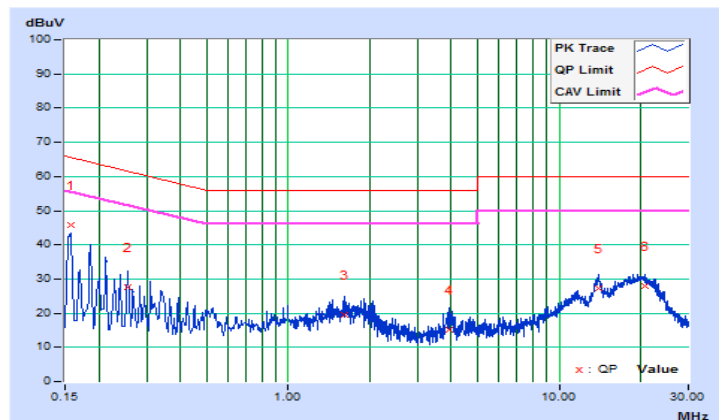


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15719        | 9.66                    | 35.97                      | 21.13 | 45.63                       | 30.79 | 65.61              | 55.61 | -19.98         | -24.82 |
| 2  | 0.25557        | 9.66                    | 17.79                      | 0.51  | 27.45                       | 10.17 | 61.57              | 51.57 | -34.12         | -41.40 |
| 3  | 1.60452        | 9.65                    | 9.88                       | 4.08  | 19.53                       | 13.73 | 56.00              | 46.00 | -36.47         | -32.27 |
| 4  | 3.93488        | 9.71                    | 5.47                       | 2.80  | 15.18                       | 12.51 | 56.00              | 46.00 | -40.82         | -33.49 |
| 5  | 13.97576       | 9.88                    | 17.52                      | 11.40 | 27.40                       | 21.28 | 60.00              | 50.00 | -32.60         | -28.72 |
| 6  | 20.86909       | 9.95                    | 17.91                      | 12.44 | 27.86                       | 22.39 | 60.00              | 50.00 | -32.14         | -27.61 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



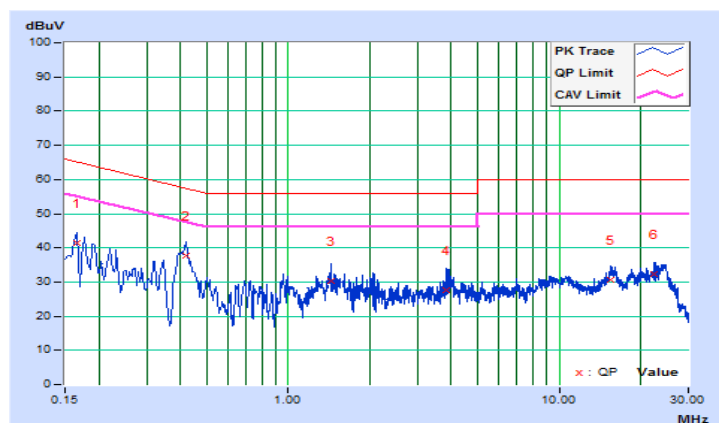
### Test Mode E (BT-Omni antenna)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.16564        | 9.66                    | 31.88                      | 16.42 | 41.54                       | 26.08 | 65.18              | 55.18 | -23.64         | -29.10 |
| 2  | 0.42000        | 9.65                    | 28.15                      | 21.28 | 37.80                       | 30.93 | 57.45              | 47.45 | -19.65         | -16.52 |
| 3  | 1.43248        | 9.65                    | 20.82                      | 14.04 | 30.47                       | 23.69 | 56.00              | 46.00 | -25.53         | -22.31 |
| 4  | 3.83322        | 9.71                    | 17.77                      | 9.94  | 27.48                       | 19.65 | 56.00              | 46.00 | -28.52         | -26.35 |
| 5  | 15.45765       | 9.86                    | 20.67                      | 15.87 | 30.53                       | 25.73 | 60.00              | 50.00 | -29.47         | -24.27 |
| 6  | 22.45655       | 9.87                    | 22.53                      | 17.09 | 32.40                       | 26.96 | 60.00              | 50.00 | -27.60         | -23.04 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

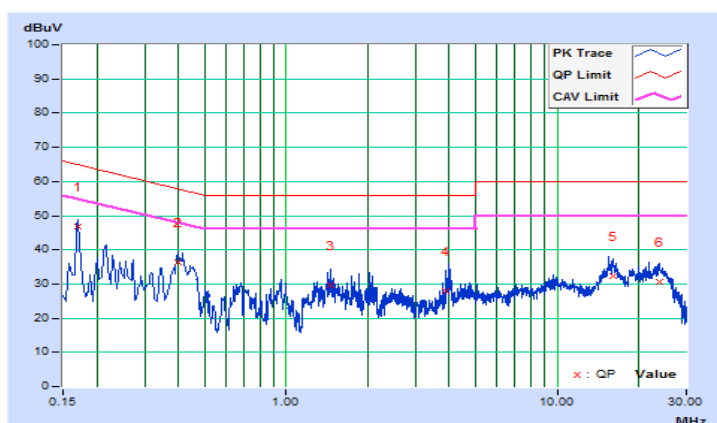


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.16955        | 9.66                    | 37.18                      | 26.10 | 46.84                       | 35.76 | 64.98              | 54.98 | -18.14         | -19.22 |
| 2  | 0.40024        | 9.65                    | 26.79                      | 15.02 | 36.44                       | 24.67 | 57.85              | 47.85 | -21.41         | -23.18 |
| 3  | 1.45594        | 9.64                    | 20.07                      | 13.04 | 29.71                       | 22.68 | 56.00              | 46.00 | -26.29         | -23.32 |
| 4  | 3.88796        | 9.71                    | 18.18                      | 9.11  | 27.89                       | 18.82 | 56.00              | 46.00 | -28.11         | -27.18 |
| 5  | 15.99723       | 9.90                    | 22.54                      | 17.00 | 32.44                       | 26.90 | 60.00              | 50.00 | -27.56         | -23.10 |
| 6  | 23.84851       | 9.96                    | 20.83                      | 15.47 | 30.79                       | 25.43 | 60.00              | 50.00 | -29.21         | -24.57 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



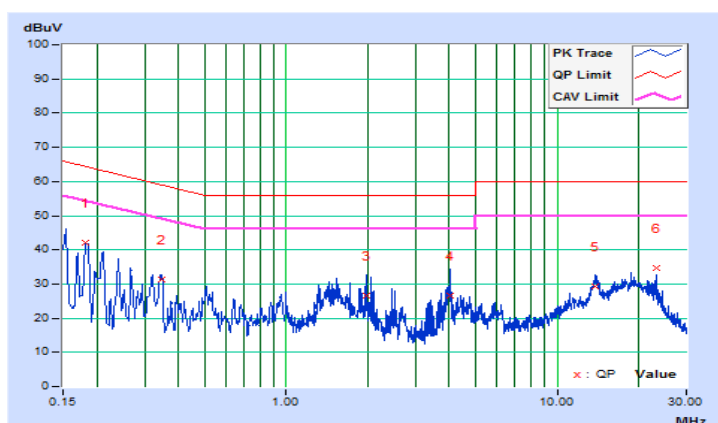
# Test Mode F (BT-Omni antenna)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.18122        | 9.66                    | 32.36                      | 19.23 | 42.02                       | 28.89 | 64.43              | 54.43 | -22.41         | -25.54 |
| 2  | 0.34560        | 9.65                    | 21.70                      | 20.48 | 31.35                       | 30.13 | 59.07              | 49.07 | -27.72         | -18.94 |
| 3  | 1.97988        | 9.66                    | 16.82                      | 5.67  | 26.48                       | 15.33 | 56.00              | 46.00 | -29.52         | -30.67 |
| 4  | 4.00526        | 9.71                    | 16.82                      | 8.35  | 26.53                       | 18.06 | 56.00              | 46.00 | -29.47         | -27.94 |
| 5  | 13.87801       | 9.85                    | 19.32                      | 13.26 | 29.17                       | 23.11 | 60.00              | 50.00 | -30.83         | -26.89 |
| 6  | 23.12907       | 9.88                    | 24.86                      | 21.58 | 34.74                       | 31.46 | 60.00              | 50.00 | -25.26         | -18.54 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



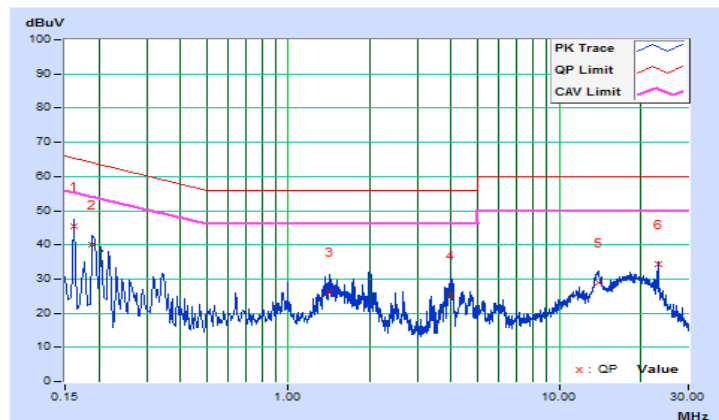


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.16181        | 9.66                    | 35.74                      | 21.94 | 45.40                       | 31.60 | 65.37              | 55.37 | -19.97         | -23.77 |
| 2  | 0.18910        | 9.66                    | 30.41                      | 15.64 | 40.07                       | 25.30 | 64.08              | 54.08 | -24.01         | -28.78 |
| 3  | 1.41684        | 9.64                    | 16.71                      | 9.98  | 26.35                       | 19.62 | 56.00              | 46.00 | -29.65         | -26.38 |
| 4  | 4.00135        | 9.71                    | 15.65                      | 7.01  | 25.36                       | 16.72 | 56.00              | 46.00 | -30.64         | -29.28 |
| 5  | 13.90929       | 9.88                    | 19.02                      | 12.66 | 28.90                       | 22.54 | 60.00              | 50.00 | -31.10         | -27.46 |
| 6  | 23.12907       | 9.96                    | 24.24                      | 20.92 | 34.20                       | 30.88 | 60.00              | 50.00 | -25.80         | -19.12 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



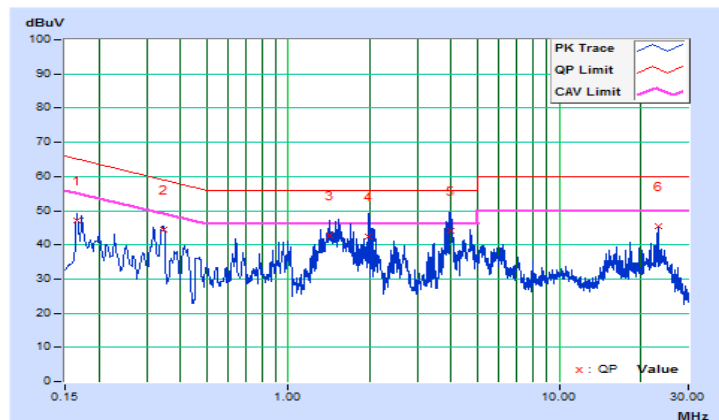
# Test Mode G (BT-Directional antenna)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |              | Emission Level<br>[dB (uV)] |              | Limit<br>[dB (uV)] |              | Margin<br>(dB) |              |
|----|----------------|-------------------------|----------------------------|--------------|-----------------------------|--------------|--------------------|--------------|----------------|--------------|
|    |                |                         |                            |              |                             |              |                    |              |                |              |
|    |                |                         | Q.P.                       | AV.          | Q.P.                        | AV.          | Q.P.               | AV.          | Q.P.           | AV.          |
| 1  | 0.16569        | 9.66                    | 37.35                      | 26.97        | 47.01                       | 36.63        | 65.17              | 55.17        | -18.16         | -18.54       |
| 2  | <b>0.34560</b> | <b>9.65</b>             | <b>34.77</b>               | <b>34.49</b> | <b>44.42</b>                | <b>44.14</b> | <b>59.07</b>       | <b>49.07</b> | <b>-14.65</b>  | <b>-4.93</b> |
| 3  | 1.41293        | 9.65                    | 33.15                      | 26.33        | 42.80                       | 35.98        | 56.00              | 46.00        | -13.20         | -10.02       |
| 4  | 1.97206        | 9.66                    | 32.75                      | 20.24        | 42.41                       | 29.90        | 56.00              | 46.00        | -13.59         | -16.10       |
| 5  | 3.99744        | 9.71                    | 34.49                      | 25.62        | 44.20                       | 35.33        | 56.00              | 46.00        | -11.80         | -10.67       |
| 6  | 23.12907       | 9.88                    | 35.65                      | 32.44        | 45.53                       | 42.32        | 60.00              | 50.00        | -14.47         | -7.68        |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

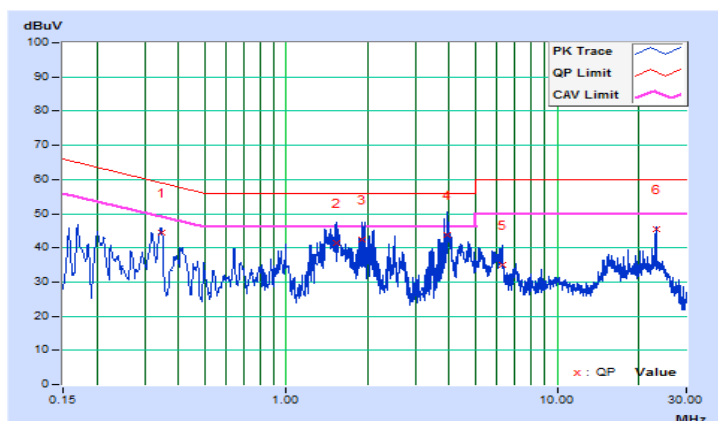


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.34560        | 9.65                    | 34.83                      | 34.47 | 44.48                       | 44.12 | 59.07              | 49.07 | -14.59         | -4.95  |
| 2  | 1.53805        | 9.65                    | 31.67                      | 25.30 | 41.32                       | 34.95 | 56.00              | 46.00 | -14.68         | -11.05 |
| 3  | 1.90168        | 9.66                    | 32.93                      | 25.58 | 42.59                       | 35.24 | 56.00              | 46.00 | -13.41         | -10.76 |
| 4  | 3.94270        | 9.71                    | 33.93                      | 24.91 | 43.64                       | 34.62 | 56.00              | 46.00 | -12.36         | -11.38 |
| 5  | 6.26524        | 9.76                    | 25.39                      | 17.23 | 35.15                       | 26.99 | 60.00              | 50.00 | -24.85         | -23.01 |
| 6  | 23.12907       | 9.96                    | 35.34                      | 32.20 | 45.30                       | 42.16 | 60.00              | 50.00 | -14.70         | -7.84  |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



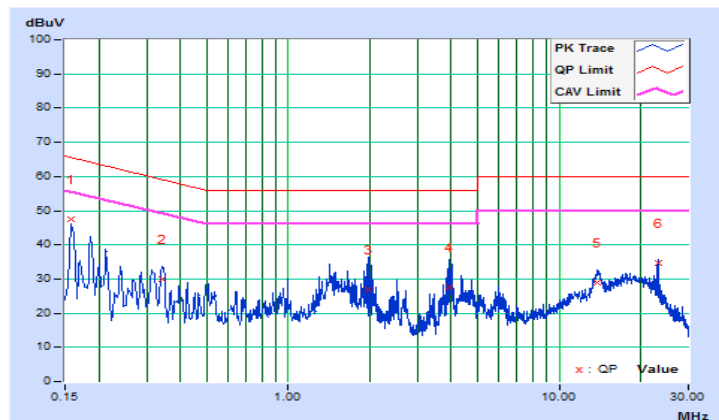
# Test Mode H (BT-Directional antenna)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15802        | 9.66                    | 37.70                      | 24.66 | 47.36                       | 34.32 | 65.57              | 55.57 | -18.21         | -21.25 |
| 2  | 0.34198        | 9.65                    | 20.23                      | 17.98 | 29.88                       | 27.63 | 59.16              | 49.16 | -29.28         | -21.53 |
| 3  | 1.98379        | 9.66                    | 17.41                      | 5.82  | 27.07                       | 15.48 | 56.00              | 46.00 | -28.93         | -30.52 |
| 4  | 3.93879        | 9.71                    | 17.95                      | 7.84  | 27.66                       | 17.55 | 56.00              | 46.00 | -28.34         | -28.45 |
| 5  | 13.76462       | 9.85                    | 19.10                      | 12.90 | 28.95                       | 22.75 | 60.00              | 50.00 | -31.05         | -27.25 |
| 6  | 23.12907       | 9.88                    | 24.88                      | 21.69 | 34.76                       | 31.57 | 60.00              | 50.00 | -25.24         | -18.43 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

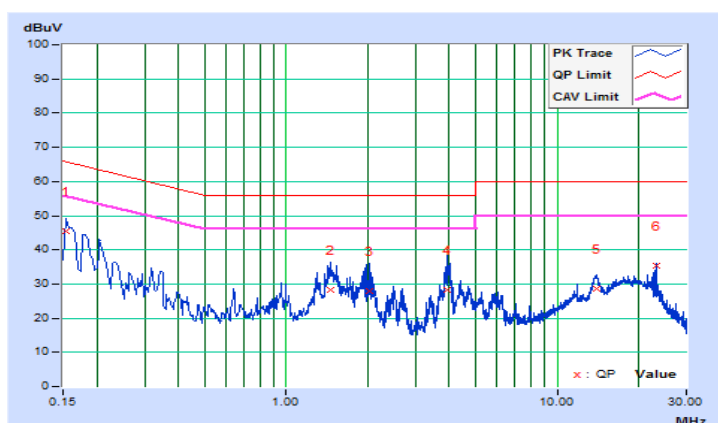


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15391        | 9.66                    | 35.91                      | 21.13 | 45.57                       | 30.79 | 65.79              | 55.79 | -20.22         | -25.00 |
| 2  | 1.46376        | 9.64                    | 18.78                      | 11.60 | 28.42                       | 21.24 | 56.00              | 46.00 | -27.58         | -24.76 |
| 3  | 2.02680        | 9.66                    | 18.37                      | 6.14  | 28.03                       | 15.80 | 56.00              | 46.00 | -27.97         | -30.20 |
| 4  | 3.93097        | 9.71                    | 18.42                      | 8.12  | 28.13                       | 17.83 | 56.00              | 46.00 | -27.87         | -28.17 |
| 5  | 14.03050       | 9.88                    | 18.67                      | 12.59 | 28.55                       | 22.47 | 60.00              | 50.00 | -31.45         | -27.53 |
| 6  | 23.12907       | 9.96                    | 25.40                      | 22.31 | 35.36                       | 32.27 | 60.00              | 50.00 | -24.64         | -17.73 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

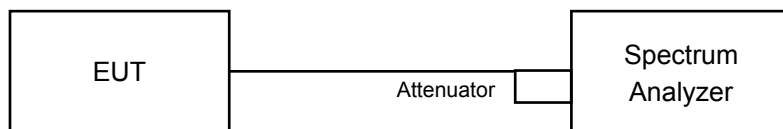


### 4.3 6dB Bandwidth Measurement

#### 4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 Test Setup



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.3.7 Test Result

Test Mode E (BT-Omni antenna)

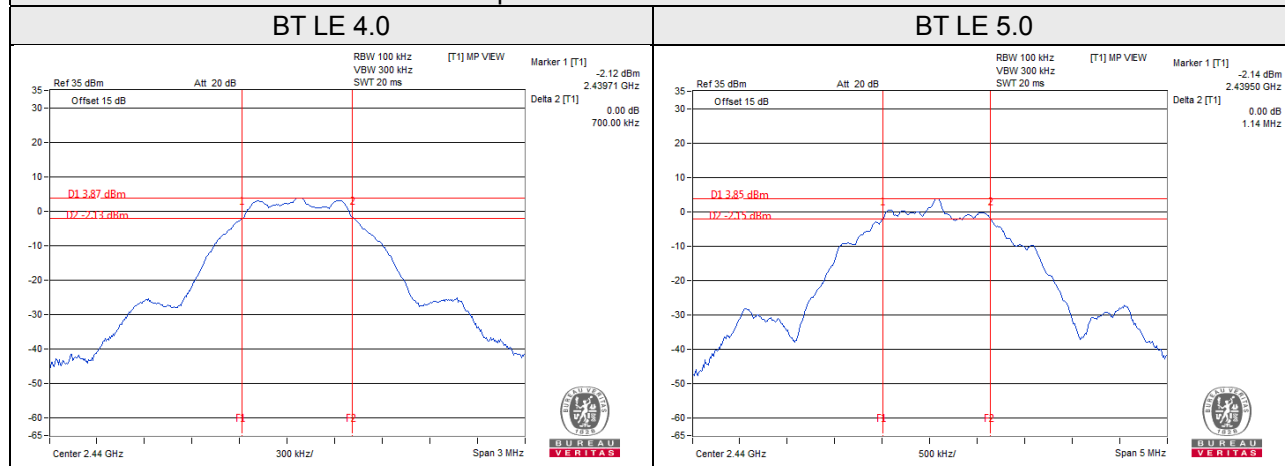
##### BT LE 4.0

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 0       | 2402            | 0.71                | 0.5                 | Pass        |
| 19      | 2440            | 0.70                | 0.5                 | Pass        |
| 39      | 2480            | 0.72                | 0.5                 | Pass        |

##### BT LE 5.0

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 0       | 2402            | 1.14                | 0.5                 | Pass        |
| 19      | 2440            | 1.14                | 0.5                 | Pass        |
| 39      | 2480            | 1.16                | 0.5                 | Pass        |

#### Spectrum Plot of Worst Value



## Test Mode G (BT-Directional antenna)

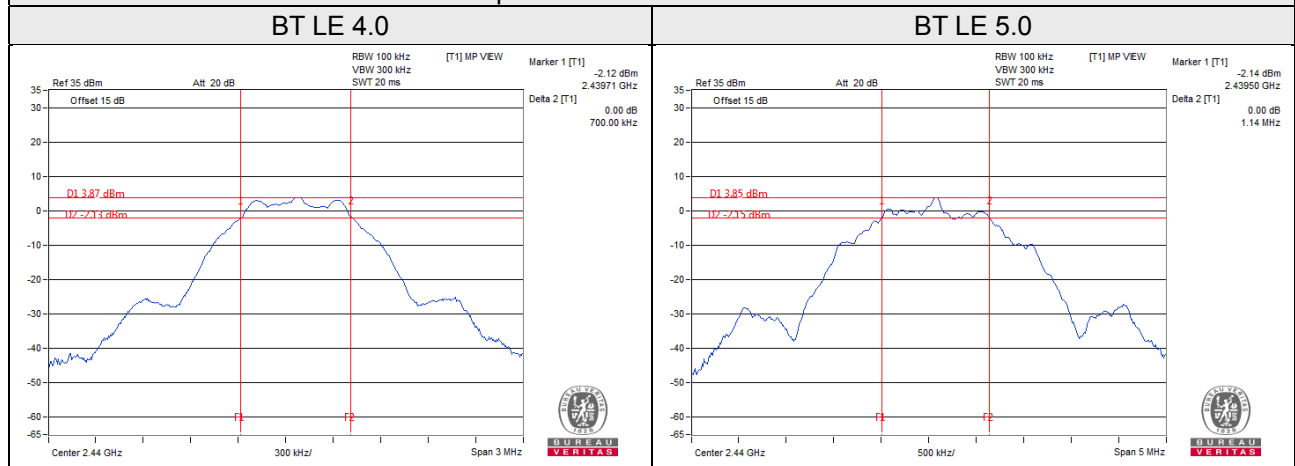
### BT LE 4.0

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 0       | 2402            | 0.71                | 0.5                 | Pass        |
| 19      | 2440            | 0.70                | 0.5                 | Pass        |
| 39      | 2480            | 0.72                | 0.5                 | Pass        |

### BT LE 5.0

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 0       | 2402            | 1.14                | 0.5                 | Pass        |
| 19      | 2440            | 1.14                | 0.5                 | Pass        |
| 39      | 2480            | 1.16                | 0.5                 | Pass        |

## Spectrum Plot of Worst Value



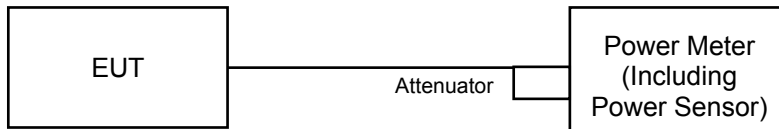


#### 4.4 Conducted Output Power Measurement

##### 4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

##### 4.4.2 Test Setup



##### 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

##### 4.4.4 Test Procedures

For Peak Power

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

For Average Power

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

##### 4.4.5 Deviation from Test Standard

No deviation.

##### 4.4.6 EUT Operating Conditions

Same as item 4.3.6.

#### 4.4.7 Test Results

For Peak Power

Test Mode E (BT-Omni antenna)

BT LE 4.0

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass/Fail |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 0       | 2402            | 4.093           | 6.12             | 30.00       | Pass      |
| 19      | 2440            | 4.207           | 6.24             | 30.00       | Pass      |
| 39      | 2480            | <b>4.345</b>    | 6.38             | 30.00       | Pass      |

BT LE 5.0

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass/Fail |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 0       | 2402            | 4.102           | 6.13             | 30.00       | Pass      |
| 19      | 2440            | 4.217           | 6.25             | 30.00       | Pass      |
| 39      | 2480            | <b>4.355</b>    | 6.39             | 30.00       | Pass      |

Test Mode G (BT-Directional antenna)

BT LE 4.0

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass/Fail |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 0       | 2402            | 4.093           | 6.12             | 30.00       | Pass      |
| 19      | 2440            | 4.207           | 6.24             | 30.00       | Pass      |
| 39      | 2480            | <b>4.345</b>    | 6.38             | 30.00       | Pass      |

BT LE 5.0

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass/Fail |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 0       | 2402            | 4.102           | 6.13             | 30.00       | Pass      |
| 19      | 2440            | 4.217           | 6.25             | 30.00       | Pass      |
| 39      | 2480            | <b>4.355</b>    | 6.39             | 30.00       | Pass      |

For Average Power

Test Mode E (BT-Omni antenna)

BT LE 4.0

| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 0       | 2402            | 2.449              | 3.89                |
| 19      | 2440            | 2.495              | 3.97                |
| 39      | 2480            | 2.518              | 4.01                |

BT LE 5.0

| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 0       | 2402            | 2.443              | 3.88                |
| 19      | 2440            | 2.483              | 3.95                |
| 39      | 2480            | 2.512              | 4.00                |

Test Mode G (BT-Directional antenna)

BT LE 4.0

| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 0       | 2402            | 2.449              | 3.89                |
| 19      | 2440            | 2.495              | 3.97                |
| 39      | 2480            | 2.518              | 4.01                |

BT LE 5.0

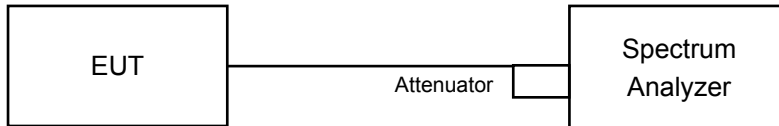
| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 0       | 2402            | 2.443              | 3.88                |
| 19      | 2440            | 2.483              | 3.95                |
| 39      | 2480            | 2.512              | 4.00                |

## 4.5 Power Spectral Density Measurement

### 4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm.

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set the VBW  $\geq 3 \times \text{RBW}$ .
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

### 4.5.5 Deviation from Test Standard

No deviation.

### 4.5.6 EUT Operating Condition

Same as item 4.3.6

## 4.5.7 Test Results

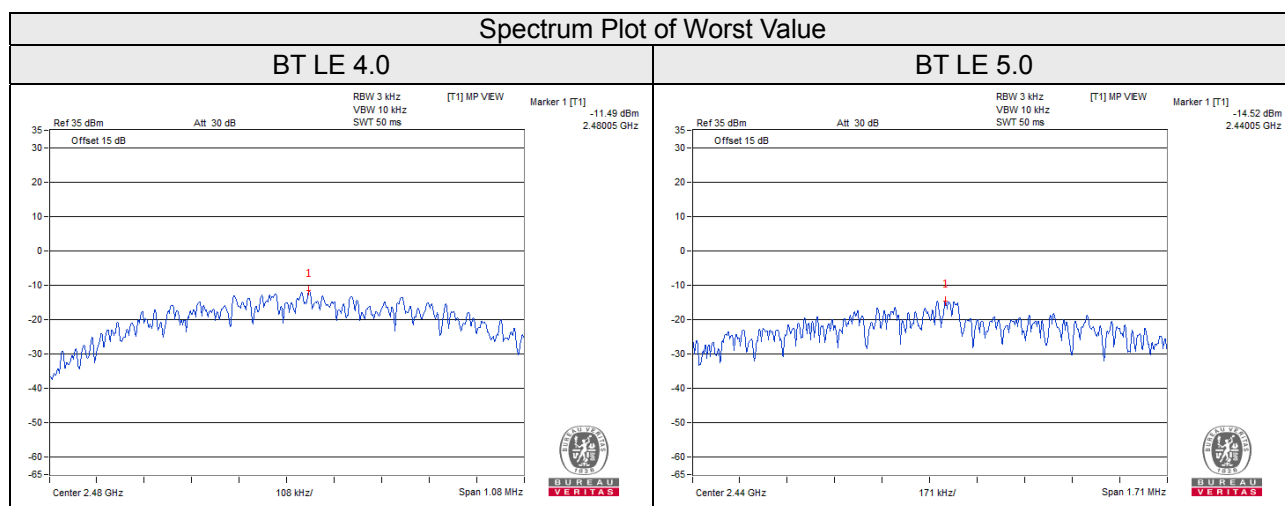
Test Mode E (BT-Omni antenna)

### BT LE 4.0

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass / Fail |
|---------|-------------|----------------|------------------|-------------|
| 0       | 2402        | -11.66         | 8.00             | Pass        |
| 19      | 2440        | -11.61         | 8.00             | Pass        |
| 39      | 2480        | -11.49         | 8.00             | Pass        |

### BT LE 5.0

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass / Fail |
|---------|-------------|----------------|------------------|-------------|
| 0       | 2402        | -14.74         | 8.00             | Pass        |
| 19      | 2440        | -14.52         | 8.00             | Pass        |
| 39      | 2480        | -14.72         | 8.00             | Pass        |



# Test Mode G (BT-Directional antenna)

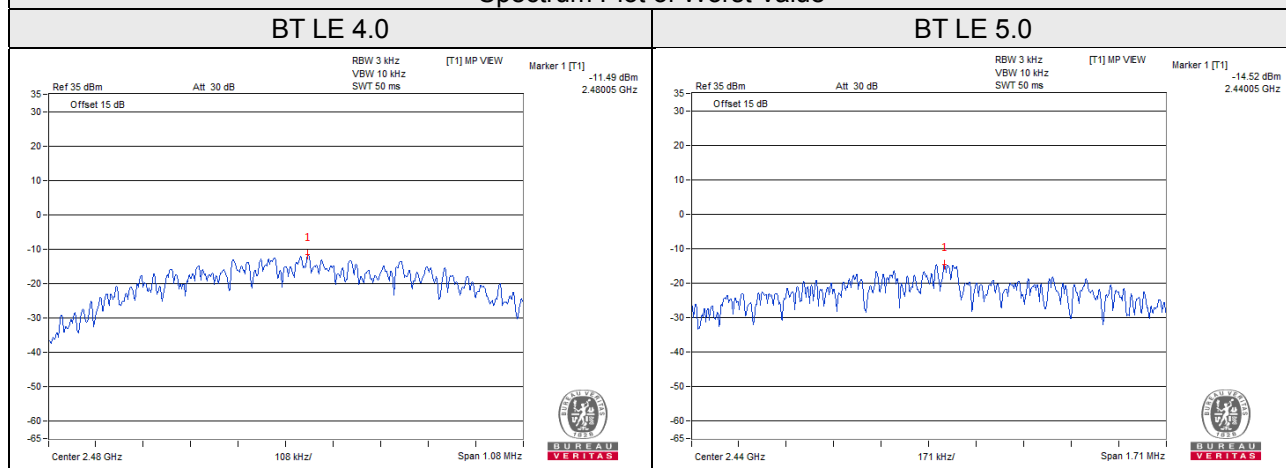
## BT LE 4.0

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass / Fail |
|---------|-------------|----------------|------------------|-------------|
| 0       | 2402        | -11.66         | 8.00             | Pass        |
| 19      | 2440        | -11.61         | 8.00             | Pass        |
| 39      | 2480        | -11.49         | 8.00             | Pass        |

## BT LE 5.0

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass / Fail |
|---------|-------------|----------------|------------------|-------------|
| 0       | 2402        | -14.74         | 8.00             | Pass        |
| 19      | 2440        | -14.52         | 8.00             | Pass        |
| 39      | 2480        | -14.72         | 8.00             | Pass        |

### Spectrum Plot of Worst Value

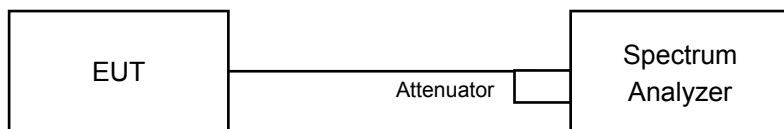


## 4.6 Conducted Out of Band Emission Measurement

### 4.6.1 Limits of Conducted Out of Band Emission Measurement

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 Test Setup



### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

#### MEASUREMENT PROCEDURE REF

- Set the RBW = 100 kHz.
- Set the VBW  $\geq$  300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

#### MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW  $\geq$  300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

### 4.6.5 Deviation from Test Standard

No deviation.

### 4.6.6 EUT Operating Condition

Same as item 4.3.6

### 4.6.7 Test Results

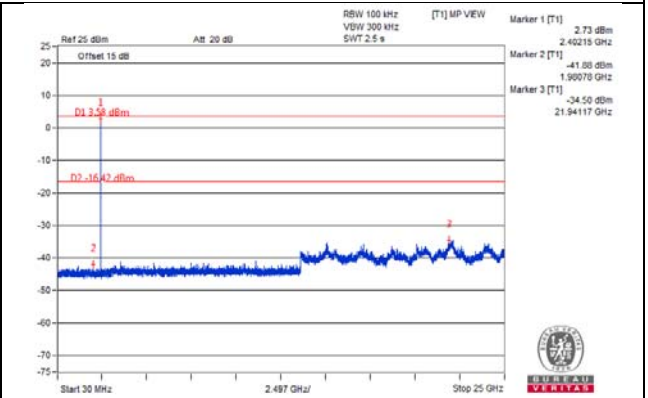
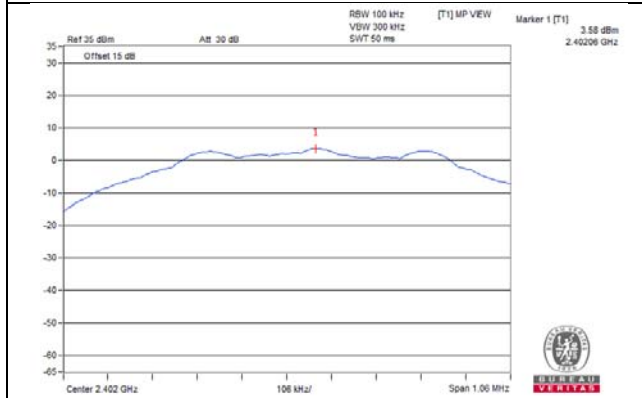
The conducted emission test is performed on each TX port of operating mode without summing or adding 10log (N) since the limit is relative emission limit.

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

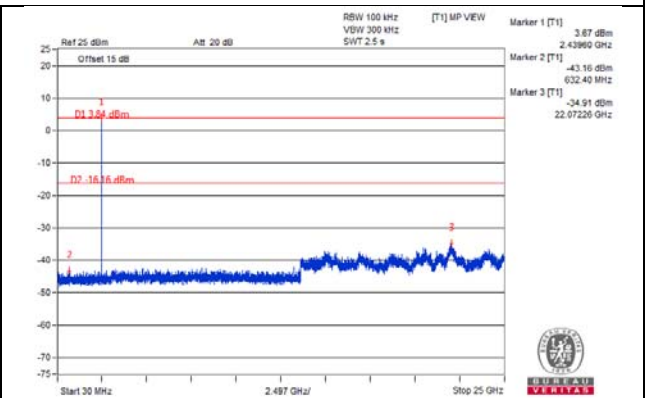
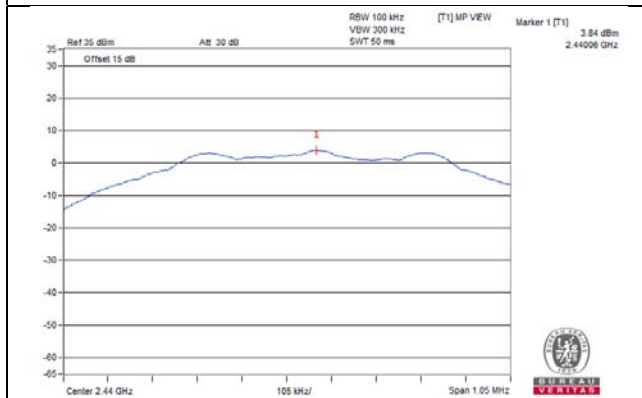
# Test Mode E (BT-Omni antenna)

## BT LE 4.0

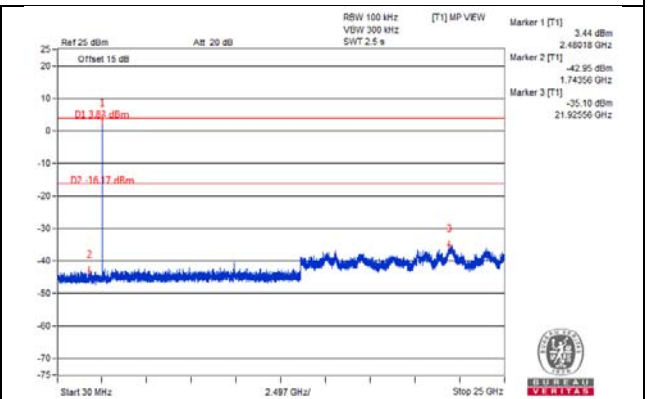
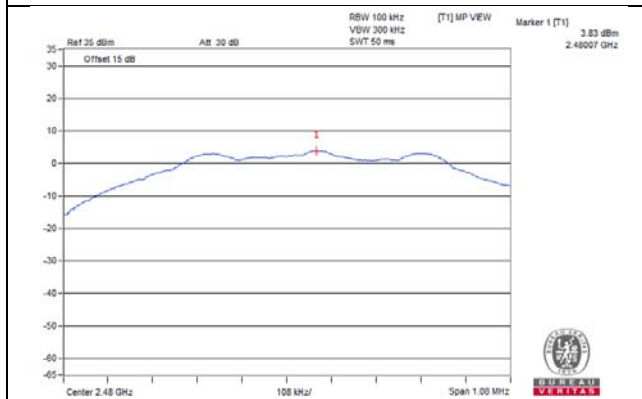
### CH 0



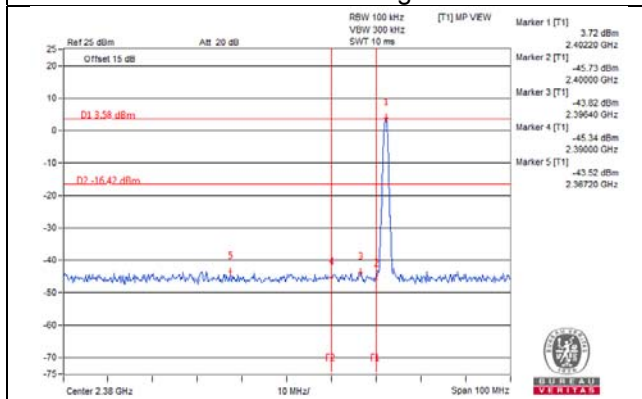
### CH 19



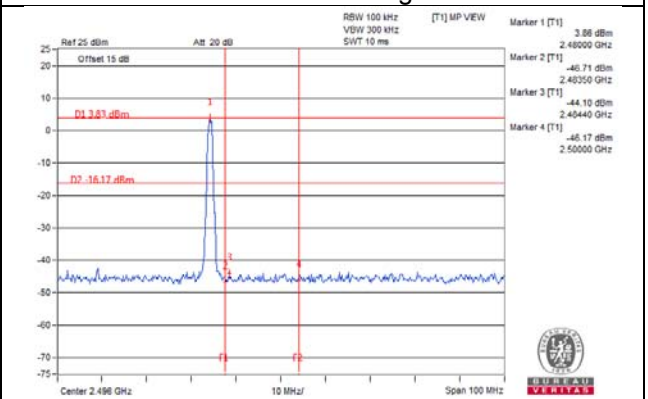
### CH 39



### CH 0 Band edge



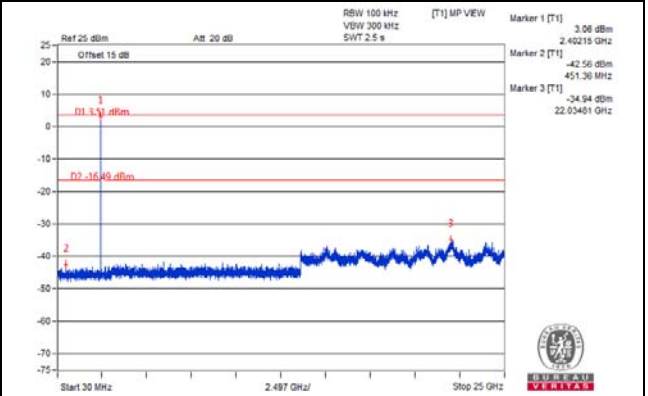
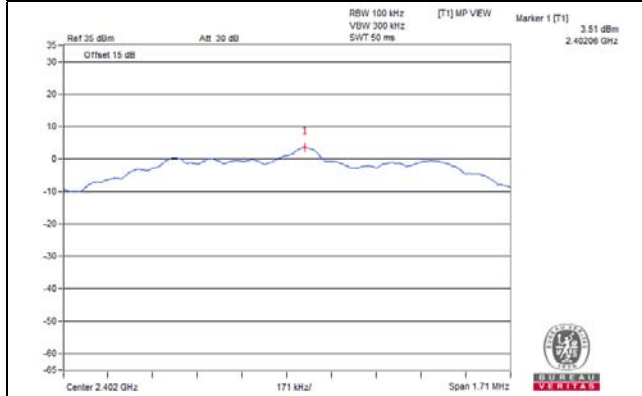
### CH 39 Band edge



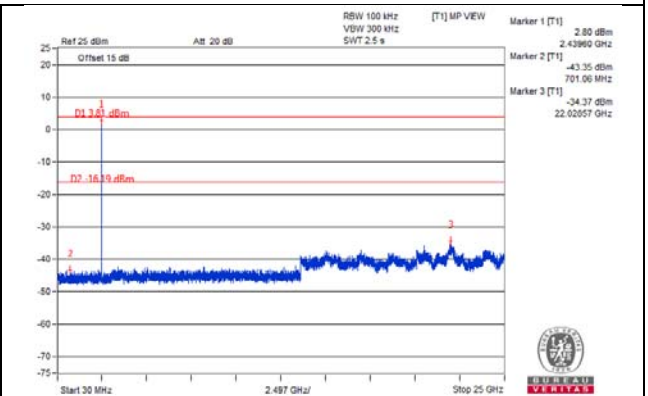
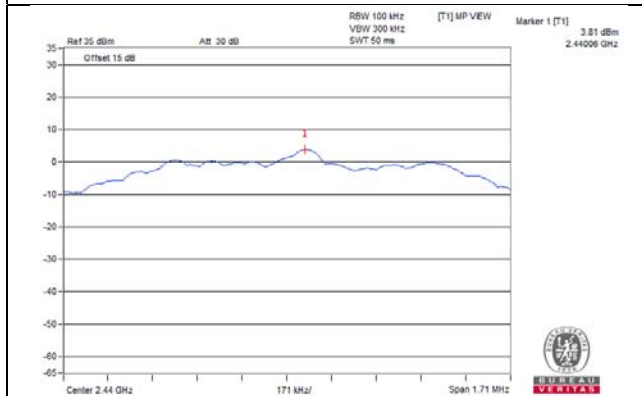


## BT LE 5.0

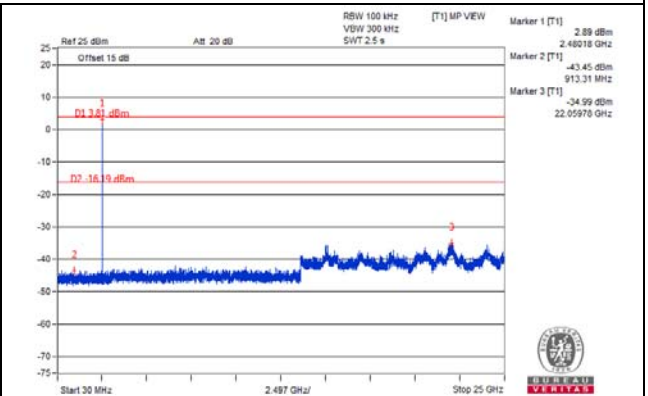
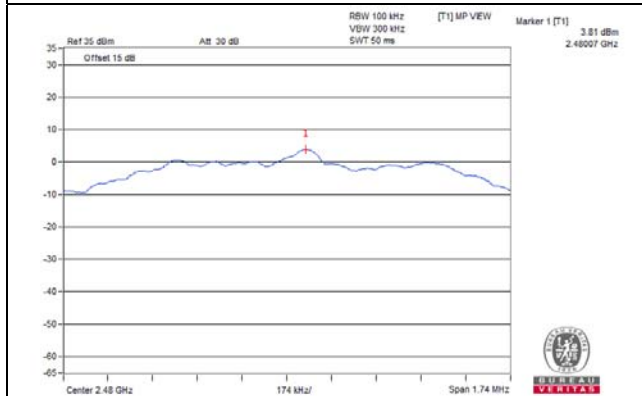
### CH 0



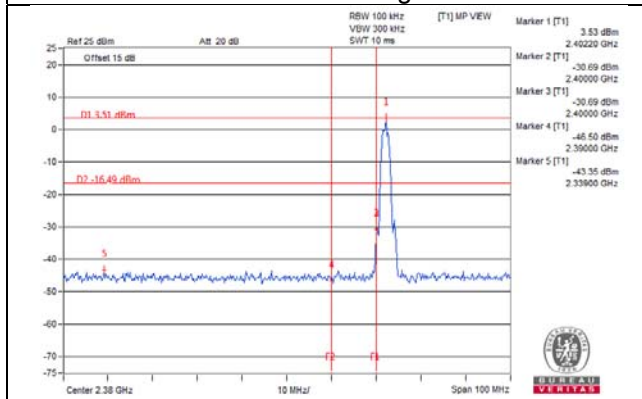
### CH 19



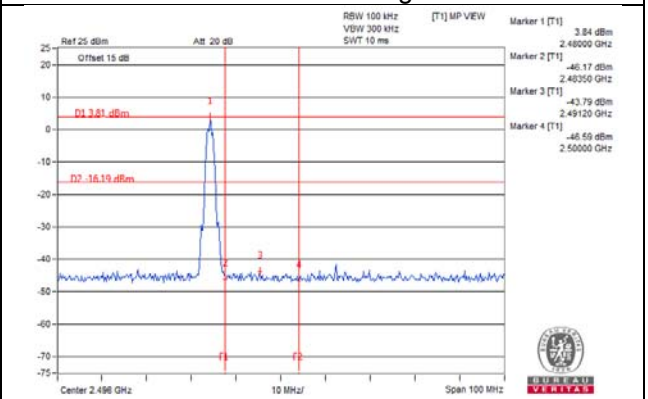
### CH 39



### CH 0 Band edge

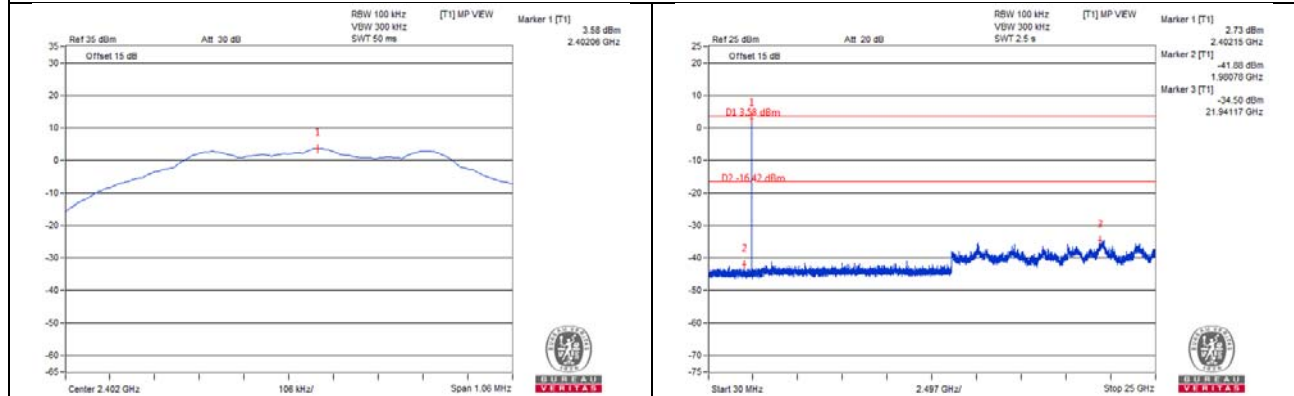


### CH 39 Band edge

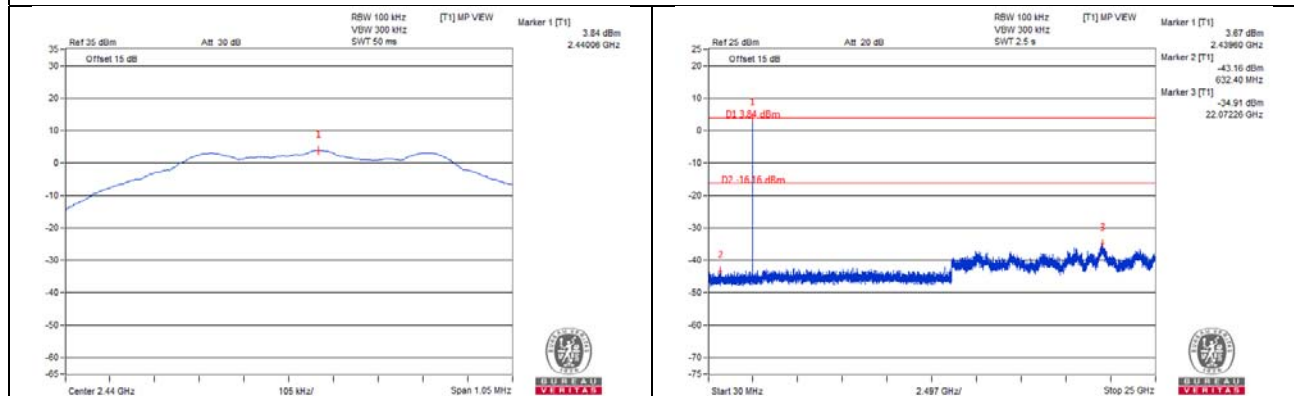


Test Mode G (BT-Directional antenna)  
BT LE 4.0

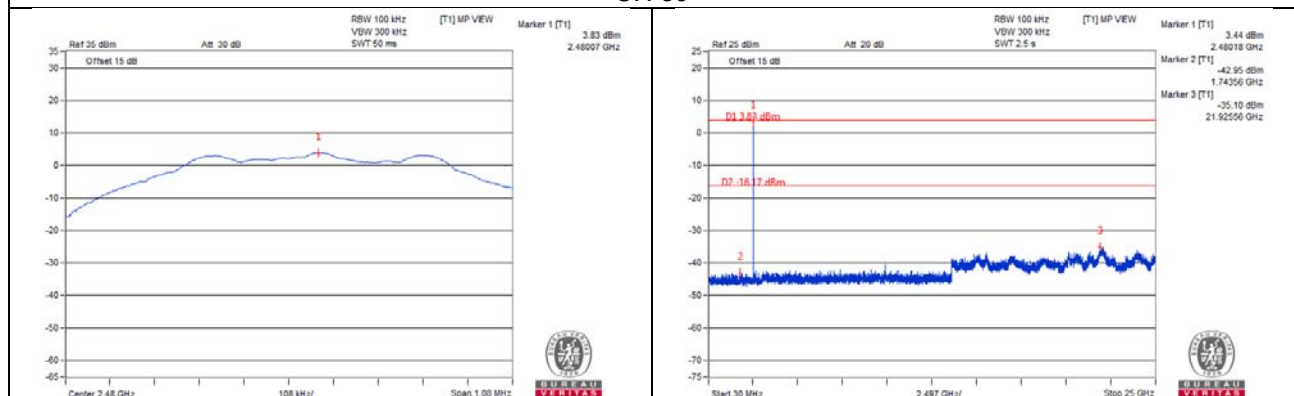
CH 0



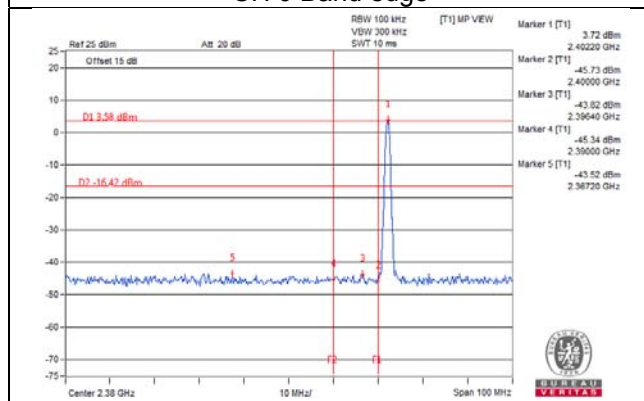
CH 19



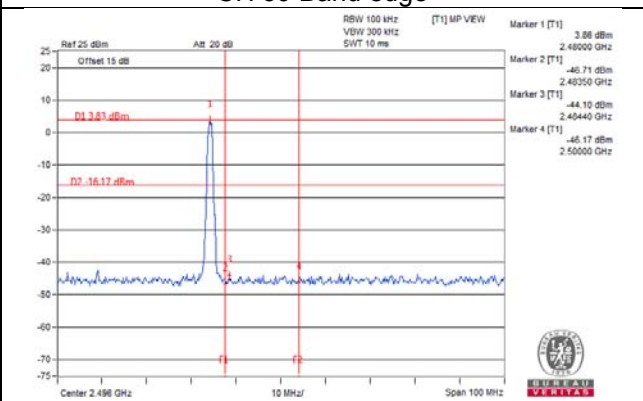
CH 39



CH 0 Band edge

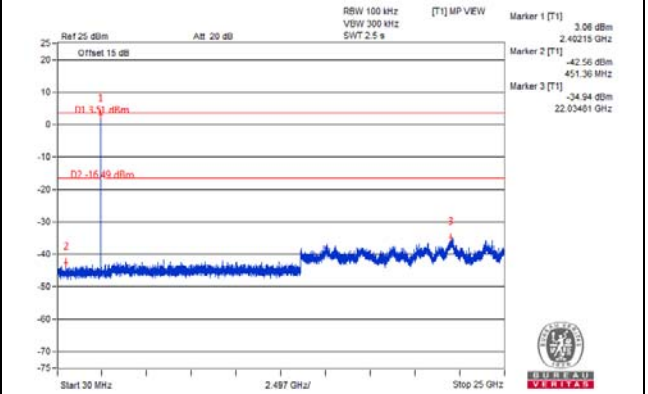
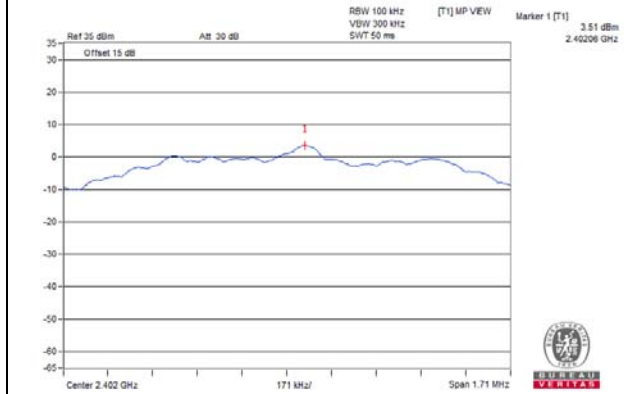


CH 39 Band edge

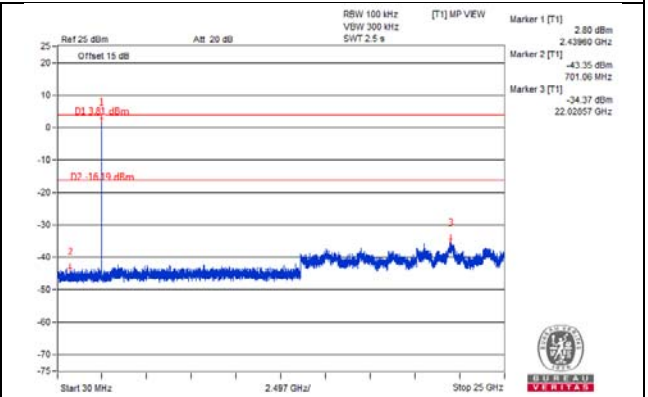
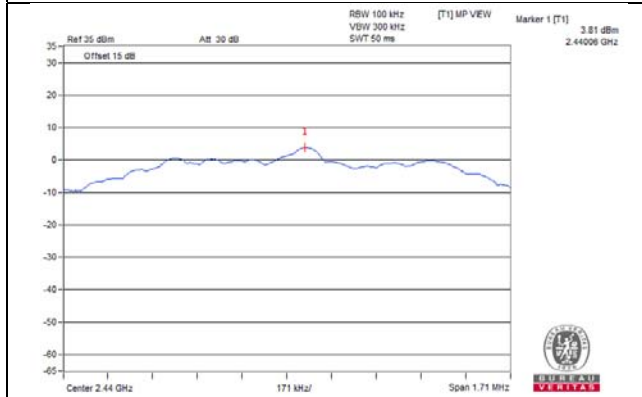


# BT LE 5.0

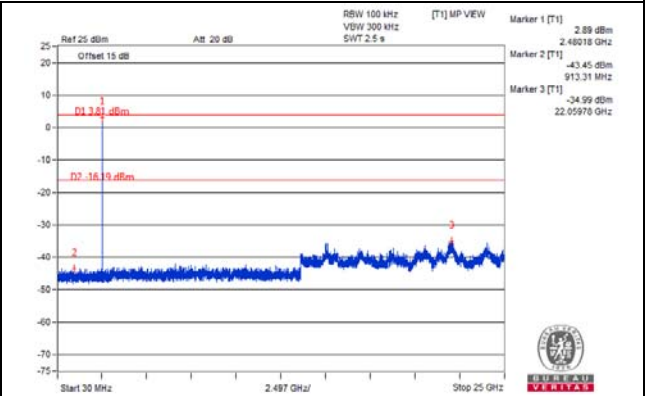
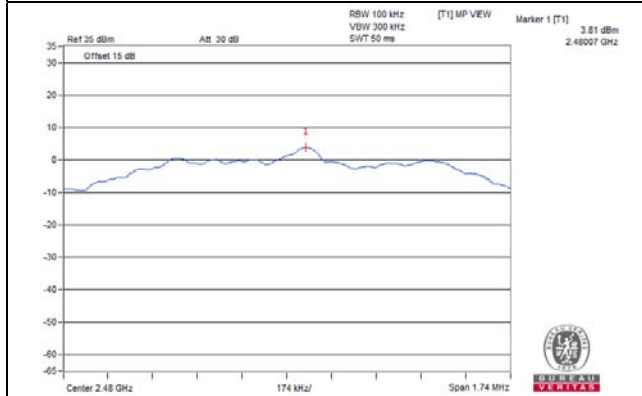
## CH 0



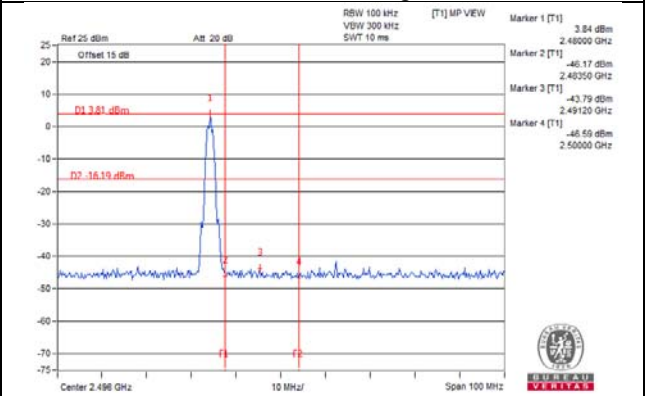
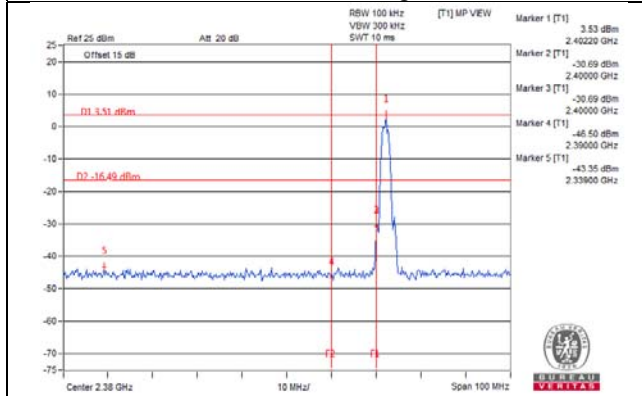
## CH 19



## CH 39



## CH 0 Band edge



## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

The address and road map of all our labs can be found in our web site also.

--- END ---