

## TEST REPORT

|           |                                                               |
|-----------|---------------------------------------------------------------|
| Applicant | Bosch Security Systems Inc                                    |
| Address   | 130 Perinton Parkway, Fairport, New York, 14450 United States |

|                                     |                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------|
| Manufacturer or Supplier            | Bosch Security Systems Inc                                                                             |
| Address                             | 130 Perinton Parkway, Fairport, New York, 14450 United States                                          |
| Product                             | EVERSE Powered Speaker                                                                                 |
| Brand Name                          |  <b>Electro-Voice</b> |
| Model                               | EVERSE 8                                                                                               |
| Additional Model & Model Difference | EVERSE 12, see item 3.1                                                                                |
| Date of tests                       | Aug. 31, 2021 ~ Nov. 05, 2021<br>Mar. 25, 2023 ~ Apr. 06, 2023                                         |

the tests have been carried out according to the requirements of the following standards:

☒ **FCC Part 15, Subpart C, Section 15.247**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

|                                                                                     |                                                                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Tested by Loren Luo<br>Project Engineer / EMC Department                            | Approved by Glyn He<br>Assistant Manager / EMC Department                                                      |
|  | <br><br>Date: May 08, 2023 |

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## RELEASE CONTROL RECORD

| ISSUE NO.       | REASON FOR CHANGE                                                                                                                                                                                                                                                                                                                                                                                                                               | DATE ISSUED   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| RF2108WDG0406-1 | Original release                                                                                                                                                                                                                                                                                                                                                                                                                                | Dec. 09, 2021 |
| RF2302WDG0253-1 | <p>Based on the original report RF2108WDG0406-1 to updated:</p> <ol style="list-style-type: none"><li>1.Increase the appearance size of the product,</li><li>2.Rechange the loudspeakers model,</li><li>3.Rechange the BT antenna model and antenna gain,</li><li>4.Add additional model,</li></ol> <p>After evaluated.it needed to be retest below items:</p> <ul style="list-style-type: none"><li>• Transmitter Spurious Emissions</li></ul> | May 08, 2023  |

## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart C |                               |        |                                |
|------------------------------------------|-------------------------------|--------|--------------------------------|
| STANDARD SECTION                         | TEST TYPE AND LIMIT           | RESULT | REMARK                         |
| 15.247(d)&<br>15.209                     | Transmitter Radiated Emission | PASS   | Meet the requirement of limit. |

## 2 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     | UNCERTAINTY |
|---------------------|---------------|-------------|
| Conducted emissions | 9kHz~30MHz    | 3.05dB      |
| Radiated emissions  | 9KHz ~ 30MHz  | 2.72dB      |
|                     | 30MHz ~ 1GMHz | 4.24dB      |
|                     | 1GHz ~ 18GHz  | 4.78dB      |
|                     | 18GHz ~ 40GHz | 4.50dB      |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                              |                                                               |
|------------------------------|---------------------------------------------------------------|
| <b>PRODUCT</b>               | EVERSE Powered Speaker                                        |
| <b>MODEL NO.</b>             | EVERSE 8                                                      |
| <b>ADDITIONAL MODEL</b>      | EVERSE 12                                                     |
| <b>FCC ID</b>                | ESVEVERSE                                                     |
| <b>POWER SUPPLY</b>          | Input: AC 100-240V~50-60Hz 1.2~0.6A<br>Battery: 14.4V 6000mAh |
| <b>MODULATION TECHNOLOGY</b> | FHSS                                                          |
| <b>MODULATION TYPE</b>       | GFSK, $\pi/4$ DQPSK, 8DPSK                                    |
| <b>OPERATING FREQUENCY</b>   | 2402MHz~2480MHz                                               |
| <b>NUMBER OF CHANNEL</b>     | 79                                                            |
| <b>PEAK OUTPUT POWER</b>     | 3.148mW (Max. Measured)                                       |
| <b>ANTENNA TYPE</b>          | PCB Antenna, 4.02dBi Gain                                     |
| <b>I/O PORTS</b>             | Refer to user's manual                                        |
| <b>CABLE SUPPLIED</b>        | Refer to user's manual                                        |

#### NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 2302WDG0253) for detailed product photo.
4. The product has two colors, black and white, it's the same material and inside circuit.
5. Additional model EVERSE 12 is identical with the test model EVERSE 8 except the appearance size of the product, loudspeakers, BT antenna model and model of the product for trading purpose.

### 3.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

| CHANNEL | FREQ.<br>(MHz) | CHANNEL | FREQ.<br>(MHz) | CHANNEL | FREQ.<br>(MHz) | CHANNEL | FREQ.<br>(MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 0       | 2402           | 20      | 2422           | 40      | 2442           | 60      | 2462           |
| 1       | 2403           | 21      | 2423           | 41      | 2443           | 61      | 2463           |
| 2       | 2404           | 22      | 2424           | 42      | 2444           | 62      | 2464           |
| 3       | 2405           | 23      | 2425           | 43      | 2445           | 63      | 2465           |
| 4       | 2406           | 24      | 2426           | 44      | 2446           | 64      | 2466           |
| 5       | 2407           | 25      | 2427           | 45      | 2447           | 65      | 2467           |
| 6       | 2408           | 26      | 2428           | 46      | 2448           | 66      | 2468           |
| 7       | 2409           | 27      | 2429           | 47      | 2449           | 67      | 2469           |
| 8       | 2410           | 28      | 2430           | 48      | 2450           | 68      | 2470           |
| 9       | 2411           | 29      | 2431           | 49      | 2451           | 69      | 2471           |
| 10      | 2412           | 30      | 2432           | 50      | 2452           | 70      | 2472           |
| 11      | 2413           | 31      | 2433           | 51      | 2453           | 71      | 2473           |
| 12      | 2414           | 32      | 2434           | 52      | 2454           | 72      | 2474           |
| 13      | 2415           | 33      | 2435           | 53      | 2455           | 73      | 2475           |
| 14      | 2416           | 34      | 2436           | 54      | 2456           | 74      | 2476           |
| 15      | 2417           | 35      | 2437           | 55      | 2457           | 75      | 2477           |
| 16      | 2418           | 36      | 2438           | 56      | 2458           | 76      | 2478           |
| 17      | 2419           | 37      | 2439           | 57      | 2459           | 77      | 2479           |
| 18      | 2420           | 38      | 2440           | 58      | 2460           | 78      | 2480           |
| 19      | 2421           | 39      | 2441           | 59      | 2461           |         |                |

### 3.2.1. CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photograph of the test configuration for reference.

### 3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, power supply voltage range and antenna ports. The worst case was found when positioned on X axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE<br>MODE | APPLICABLE TO |       |     |      | DESCRIPTION                   |
|-----------------------|---------------|-------|-----|------|-------------------------------|
|                       | RE<1G         | RE≥1G | PLC | APCM |                               |
| A                     | √             | √     | -   | -    | AC 120V/60Hz with BT function |

Where **RE<1G**: Radiated Emission below 1GHz  
**PLC**: Power Line Conducted Emission

**RE≥1G**: Radiated Emission above 1GHz  
**APCM**: Antenna Port Conducted Measurement

#### RADIATED EMISSION TEST (BELOW 1 GHz):

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

| EUT CONFIGURE<br>MODE | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION<br>TYPE | PACKET TYPE |
|-----------------------|----------------------|-------------------|--------------------------|--------------------|-------------|
| A                     | 0 to 78              | 39                | FHSS                     | GFSK               | DH5         |

For the test results, only the worst case was shown in test report.

#### RADIATED EMISSION TEST (ABOVE 1 GHz):

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

| EUT CONFIGURE<br>MODE | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION<br>TYPE | PACKET TYPE |
|-----------------------|----------------------|-------------------|--------------------------|--------------------|-------------|
| A                     | 0 to 78              | 0, 39, 78         | FHSS                     | GFSK               | DH5         |
| A                     | 0 to 78              | 0, 39, 78         | FHSS                     | 8DPSK              | 3DH5        |



Test Report No.: RF2302WDG0253-1

**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL<br>CONDITIONS | TEST VOLTAGE<br>(SYSTEM) | TESTED BY |
|---------------|-----------------------------|--------------------------|-----------|
| RE<1G         | 25deg. C, 55%RH             | AC 120V 60Hz             | Ryker     |
| RE≥1G         | 25deg. C, 55%RH             | AC 120V 60Hz             | Ryker     |



### **3.3 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. Section 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.

### **3.4 DESCRIPTION OF SUPPORT UNITS**

The EUT has been tested as an independent unit without any other necessary accessory or support units.

## 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, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

| FREQUENCIES (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. As shown in 15.35(b), 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

| Equipment                   | Manufacturer  | Model No.                | Serial No.   | Next Cal.    |
|-----------------------------|---------------|--------------------------|--------------|--------------|
| Spectrum Analyzer           | Rohde&Schwarz | FSV3044                  | 101326       | July 20, 23  |
| EMI Test Receiver           | Rohde&Schwarz | ESU8                     | 100372       | Jun. 14, 23  |
| Bilog Antenna               | SCHWARZBECK   | VULB 9168                | 01281        | Jun. 19, 23  |
| Pre-Amplifier               | Agilent       | 8447D                    | 2944A10488   | Aug. 03, 23  |
| 3m Semi-anechoic Chamber    | ETS-Lindgren  | 9m*6m*6m                 | D3040003DG-1 | July 30, 24  |
| Coaxial RF Cable            | Joinfront     | JFAA6-NMNM-8000          | 2100033742   | July. 11, 23 |
| Coaxial RF Cable            | Joinfront     | JFAR-NMBNCM-2000         | 2100033742   | July. 11, 23 |
| Coaxial RF Cable            | Joinfront     | JFAR-BNCMSMM-500         | 2100033742   | July. 11, 23 |
| Test software               | ADT           | ADT_Radiated_V7.6.15.9.2 | N/A          | N/A          |
| Horn Antenna                | ETS-Lindgren  | 3117                     | 00240041     | Jun. 19, 23  |
| Horn Antenna                | SCHWARZBECK   | BBHA 9170                | 01024        | Oct. 16, 23  |
| Pre-Amplifier (1GHz-18GHz)  | SCHWARZBECK   | BBV 9718C                | 00142        | Jun. 14, 23  |
| Pre-Amplifier (18GHz-40GHz) | Rohde&Schwarz | SCU40                    | 100437       | Oct. 27, 23  |
| Coaxial RF Cable            | Joinfront     | JFAA6-NMNM-8000          | 2100033742   | July. 11, 23 |
| Coaxial RF Cable            | Joinfront     | JFAA6-NMSMM-2000         | 2100033742   | July. 11, 23 |
| Coaxial RF Cable            | Joinfront     | JFAA6-NMSMM-800          | 2100033742   | July. 11, 23 |

#### NOTES:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 749762..
5. Test site: No. 122, Houjie Avenue West Houjie Town, Dongguan City Guangdong Province, 523960, People's Republic of China.

#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1.3m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

#### NOTE:

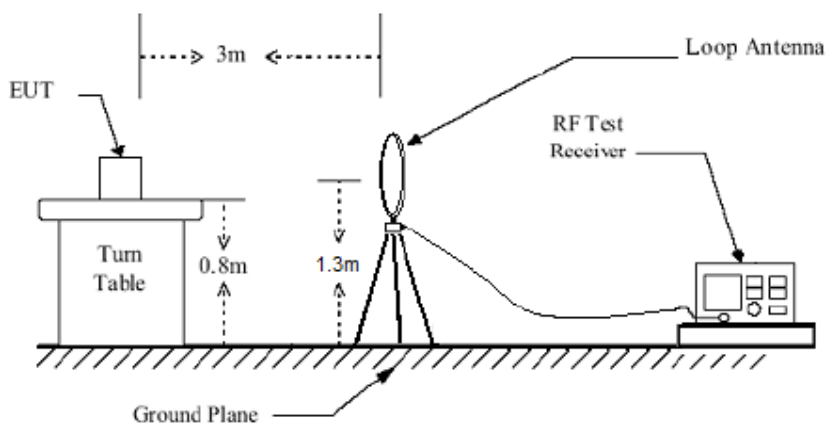
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

#### 4.1.4 DEVIATION FROM TEST STANDARD

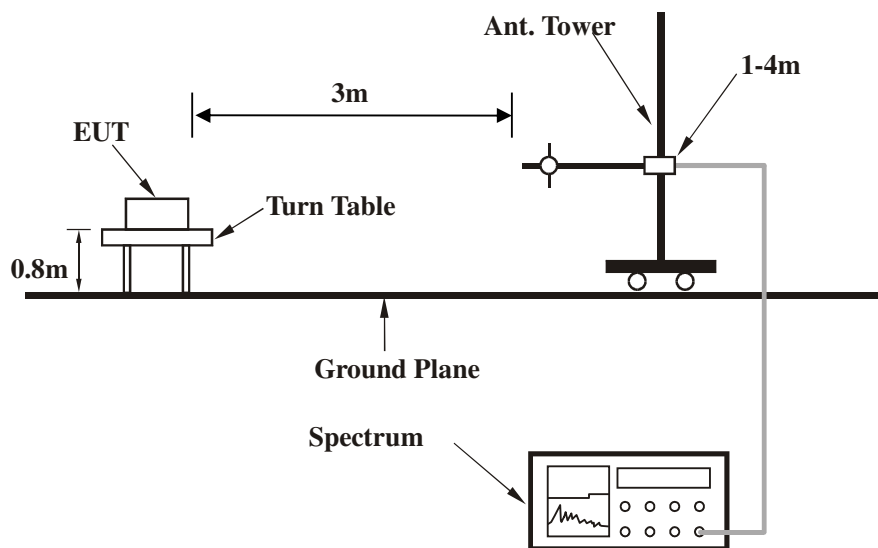
No deviation.

#### 4.1.5 TEST SETUP

##### Below 30MHz test setup

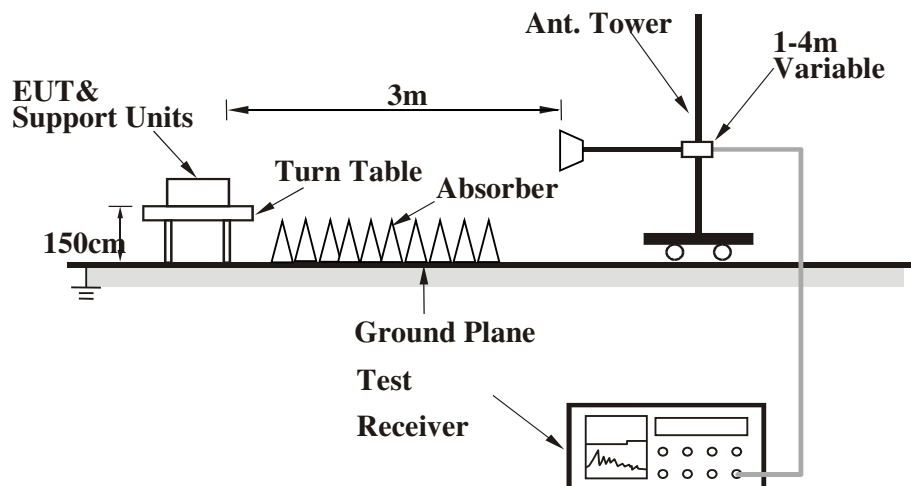


##### Below 1GHz test setup



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

### Above 1GHz test setup



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

#### 4.1.6 EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

#### 4.1.7 TEST RESULTS

##### BELOW 1GHz WORST-CASE DATA:

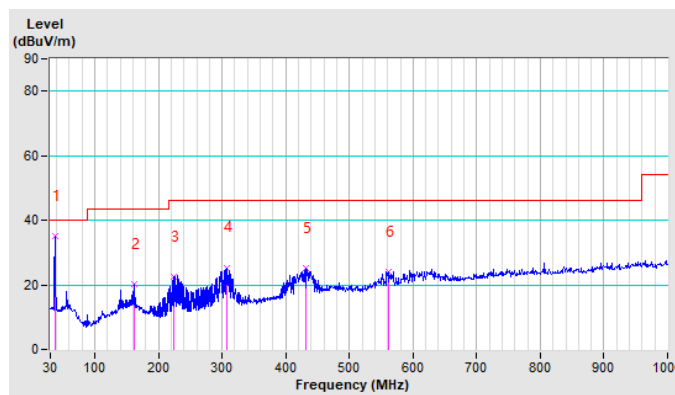
##### GFSK DH5

|                        |             |                              |                 |
|------------------------|-------------|------------------------------|-----------------|
| <b>CHANNEL</b>         | Channel 39  | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 9KHz ~ 1GHz |                              |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                 |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|---------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTIO<br>N FACTOR<br>(dB/m) |
| 1                                                   | 36.79          | 35.03 QP                      | 40.00             | -4.97          | 1.00 H                   | 26                         | 49.92                  | -14.89                          |
| 2                                                   | 160.95         | 20.31 QP                      | 43.50             | -23.19         | 1.00 H                   | 51                         | 33.40                  | -13.09                          |
| 3                                                   | 224.00         | 22.43 QP                      | 46.00             | -23.57         | 1.00 H                   | 122                        | 37.39                  | -14.96                          |
| 4                                                   | 307.42         | 25.33 QP                      | 46.00             | -20.67         | 1.00 H                   | 10                         | 37.31                  | -11.98                          |
| 5                                                   | 431.58         | 25.31 QP                      | 46.00             | -20.69         | 1.00 H                   | 203                        | 34.82                  | -9.51                           |
| 6                                                   | 562.53         | 24.12 QP                      | 46.00             | -21.88         | 1.00 H                   | 114                        | 31.44                  | -7.32                           |

##### 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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value

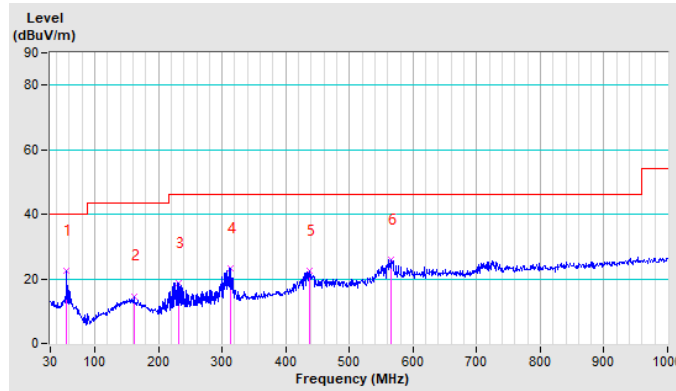


|                        |             |                              |                 |
|------------------------|-------------|------------------------------|-----------------|
| <b>CHANNEL</b>         | Channel 39  | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 9KHz ~ 1GHz |                              |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                 |
|---------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|---------------------------------|
| NO.                                               | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTIO<br>N FACTOR<br>(dB/m) |
| 1                                                 | 55.22          | 22.56 QP                      | 40.00             | -17.44         | 1.00 V                   | 124                        | 36.44                  | -13.88                          |
| 2                                                 | 160.95         | 14.65 QP                      | 43.50             | -28.85         | 1.00 V                   | 176                        | 27.74                  | -13.09                          |
| 3                                                 | 231.76         | 18.70 QP                      | 46.00             | -27.30         | 1.00 V                   | 36                         | 33.31                  | -14.61                          |
| 4                                                 | 313.24         | 23.09 QP                      | 46.00             | -22.91         | 1.00 V                   | 116                        | 34.98                  | -11.89                          |
| 5                                                 | 436.43         | 22.36 QP                      | 46.00             | -23.64         | 1.00 V                   | 27                         | 31.72                  | -9.36                           |
| 6                                                 | 565.44         | 25.86 QP                      | 46.00             | -20.14         | 1.00 V                   | 84                         | 33.10                  | -7.24                           |

**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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value





**ABOVE 1GHz DATA**

**BT\_GFSK**

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 44.16 PK                      | 74.00             | -29.84         | 1.20 H                   | 150                        | 42.60                  | 1.56                           |
| 2                                                   | 2390.00        | 34.90 AV                      | 54.00             | -19.10         | 1.20 H                   | 150                        | 33.34                  | 1.56                           |
| 3                                                   | *2402.00       | 102.31 PK                     |                   |                | 1.20 H                   | 150                        | 100.75                 | 1.56                           |
| 4                                                   | *2402.00       | 100.00 AV                     |                   |                | 1.20 H                   | 150                        | 98.44                  | 1.56                           |
| 5                                                   | 4804.00        | 51.51 PK                      | 74.00             | -22.49         | 1.56 H                   | 248                        | 44.27                  | 7.24                           |
| 6                                                   | 4804.00        | 40.52 AV                      | 54.00             | -13.48         | 1.56 H                   | 248                        | 33.28                  | 7.24                           |
| 7                                                   | 7206.00        | 55.76 PK                      | 74.00             | -18.24         | 1.46 H                   | 50                         | 44.31                  | 11.45                          |
| 8                                                   | 7206.00        | 41.33 AV                      | 54.00             | -12.67         | 1.46 H                   | 50                         | 29.88                  | 11.45                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 45.80 PK                      | 74.00             | -28.20         | 1.45 V                   | 136                        | 44.24                  | 1.56                           |
| 2                                                   | 2390.00        | 33.56 AV                      | 54.00             | -20.44         | 1.45 V                   | 136                        | 32.00                  | 1.56                           |
| 3                                                   | *2402.00       | 102.21 PK                     |                   |                | 1.45 V                   | 136                        | 100.65                 | 1.56                           |
| 4                                                   | *2402.00       | 101.67 AV                     |                   |                | 1.45 V                   | 136                        | 100.11                 | 1.56                           |
| 5                                                   | 4804.00        | 50.28 PK                      | 74.00             | -23.72         | 1.20 V                   | 140                        | 43.04                  | 7.24                           |
| 6                                                   | 4804.00        | 39.56 AV                      | 54.00             | -14.44         | 1.20 V                   | 140                        | 32.32                  | 7.24                           |
| 7                                                   | 7206.00        | 54.26 PK                      | 74.00             | -19.74         | 1.50 V                   | 36                         | 42.81                  | 11.45                          |
| 8                                                   | 7206.00        | 42.68 AV                      | 54.00             | -11.32         | 1.50 V                   | 36                         | 31.23                  | 11.45                          |

**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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2441.00       | 102.36 PK                     |                   |                | 1.40 H                   | 160                        | 100.78                 | 1.58                           |
| 2                                                   | *2441.00       | 100.54 AV                     |                   |                | 1.40 H                   | 160                        | 98.96                  | 1.58                           |
| 3                                                   | 4882.00        | 52.32 PK                      | 74.00             | -21.68         | 1.80 H                   | 164                        | 44.66                  | 7.66                           |
| 4                                                   | 4882.00        | 41.36 AV                      | 54.00             | -12.64         | 1.80 H                   | 164                        | 33.70                  | 7.66                           |
| 5                                                   | 7323.00        | 50.48 PK                      | 74.00             | -23.52         | 1.45 H                   | 360                        | 38.89                  | 11.59                          |
| 6                                                   | 7323.00        | 39.48 AV                      | 54.00             | -14.52         | 1.45 H                   | 360                        | 27.89                  | 11.59                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2441.00       | 101.88 PK                     |                   |                | 1.20 V                   | 130                        | 100.30                 | 1.58                           |
| 2                                                   | *2441.00       | 100.36 AV                     |                   |                | 1.20 V                   | 130                        | 98.78                  | 1.58                           |
| 3                                                   | 4882.00        | 49.26 PK                      | 74.00             | -24.74         | 1.40 V                   | 150                        | 41.60                  | 7.66                           |
| 4                                                   | 4882.00        | 40.22 AV                      | 54.00             | -13.78         | 1.40 V                   | 150                        | 32.56                  | 7.66                           |
| 5                                                   | 7323.00        | 50.27 PK                      | 74.00             | -23.73         | 1.47 V                   | 258                        | 38.68                  | 11.59                          |
| 6                                                   | 7323.00        | 41.84 AV                      | 54.00             | -12.16         | 1.47 V                   | 258                        | 30.25                  | 11.59                          |

**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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 78 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2480.00       | 103.14 PK                     |                   |                | 1.20 H                   | 130                        | 101.55                 | 1.59                           |
| 2                                                   | *2480.00       | 100.56 AV                     |                   |                | 1.20 H                   | 130                        | 98.97                  | 1.59                           |
| 3                                                   | 2483.50        | 45.23 PK                      | 74.00             | -28.77         | 1.20 H                   | 130                        | 43.64                  | 1.59                           |
| 4                                                   | 2483.50        | 35.26 AV                      | 54.00             | -18.74         | 1.20 H                   | 130                        | 33.67                  | 1.59                           |
| 5                                                   | 4960.00        | 53.14 PK                      | 74.00             | -20.86         | 1.20 H                   | 147                        | 45.07                  | 8.07                           |
| 6                                                   | 4960.00        | 40.26 AV                      | 54.00             | -13.74         | 1.20 H                   | 147                        | 32.19                  | 8.07                           |
| 7                                                   | 7440.00        | 51.26 PK                      | 74.00             | -22.74         | 1.23 H                   | 48                         | 39.52                  | 11.74                          |
| 8                                                   | 7440.00        | 40.27 AV                      | 54.00             | -13.73         | 1.23 H                   | 48                         | 28.53                  | 11.74                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2480.00       | 102.36 PK                     |                   |                | 1.20 V                   | 140                        | 100.77                 | 1.59                           |
| 2                                                   | *2480.00       | 100.47 AV                     |                   |                | 1.20 V                   | 140                        | 98.88                  | 1.59                           |
| 3                                                   | 2483.50        | 45.28 PK                      | 74.00             | -28.72         | 1.20 V                   | 140                        | 43.69                  | 1.59                           |
| 4                                                   | 2483.50        | 36.27 AV                      | 54.00             | -17.73         | 1.20 V                   | 140                        | 34.68                  | 1.59                           |
| 5                                                   | 4960.00        | 53.88 PK                      | 74.00             | -20.12         | 1.59 V                   | 350                        | 45.81                  | 8.07                           |
| 6                                                   | 4960.00        | 41.51 AV                      | 54.00             | -12.49         | 1.59 V                   | 350                        | 33.44                  | 8.07                           |
| 7                                                   | 7440.00        | 50.36 PK                      | 74.00             | -23.64         | 1.40 V                   | 258                        | 38.62                  | 11.74                          |
| 8                                                   | 7440.00        | 39.87 AV                      | 54.00             | -14.13         | 1.40 V                   | 258                        | 28.13                  | 11.74                          |

**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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 44.34 PK                      | 74.00             | -29.66         | 1.40 H                   | 180                        | 42.78                  | 1.56                           |
| 2                                                   | 2390.00        | 31.98 AV                      | 54.00             | -22.02         | 1.40 H                   | 180                        | 30.42                  | 1.56                           |
| 3                                                   | *2402.00       | 93.77 PK                      |                   |                | 1.40 H                   | 180                        | 92.21                  | 1.56                           |
| 4                                                   | *2402.00       | 92.74 AV                      |                   |                | 1.40 H                   | 180                        | 91.18                  | 1.56                           |
| 5                                                   | 4804.00        | 50.89 PK                      | 74.00             | -23.11         | 1.25 H                   | 147                        | 43.65                  | 7.24                           |
| 6                                                   | 4804.00        | 38.20 AV                      | 54.00             | -15.80         | 1.25 H                   | 147                        | 30.96                  | 7.24                           |
| 7                                                   | 7206.00        | 54.56 PK                      | 74.00             | -19.44         | 1.36 H                   | 150                        | 43.11                  | 11.45                          |
| 8                                                   | 7206.00        | 43.22 AV                      | 54.00             | -10.78         | 1.36 H                   | 150                        | 31.77                  | 11.45                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 45.62 PK                      | 74.00             | -28.38         | 1.20 V                   | 150                        | 44.06                  | 1.56                           |
| 2                                                   | 2390.00        | 32.45 AV                      | 54.00             | -21.55         | 1.20 V                   | 150                        | 30.89                  | 1.56                           |
| 3                                                   | *2402.00       | 95.92 PK                      |                   |                | 1.20 V                   | 150                        | 94.36                  | 1.56                           |
| 4                                                   | *2402.00       | 94.27 AV                      |                   |                | 1.20 V                   | 150                        | 92.71                  | 1.56                           |
| 5                                                   | 4804.00        | 58.37 PK                      | 74.00             | -15.63         | 1.07 V                   | 148                        | 51.13                  | 7.24                           |
| 6                                                   | 4804.00        | 41.47 AV                      | 54.00             | -12.53         | 1.07 V                   | 148                        | 34.23                  | 7.24                           |
| 7                                                   | 7206.00        | 54.83 PK                      | 74.00             | -19.17         | 1.54 V                   | 193                        | 43.38                  | 11.45                          |
| 8                                                   | 7206.00        | 42.62 AV                      | 54.00             | -11.38         | 1.54 V                   | 193                        | 31.17                  | 11.45                          |

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2441.00       | 90.36 PK                      |                   |                | 1.45 H                   | 128                        | 88.78                  | 1.58                           |
| 2                                                   | *2441.00       | 89.28 AV                      |                   |                | 1.45 H                   | 128                        | 87.70                  | 1.58                           |
| 3                                                   | 4882.00        | 51.24 PK                      | 74.00             | -22.76         | 1.56 H                   | 254                        | 43.58                  | 7.66                           |
| 4                                                   | 4882.00        | 37.61 AV                      | 54.00             | -16.39         | 1.56 H                   | 254                        | 29.95                  | 7.66                           |
| 5                                                   | 7323.00        | 54.34 PK                      | 74.00             | -19.66         | 1.59 H                   | 45                         | 42.75                  | 11.59                          |
| 6                                                   | 7323.00        | 40.61 AV                      | 54.00             | -13.39         | 1.59 H                   | 45                         | 29.02                  | 11.59                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2441.00       | 91.71 PK                      |                   |                | 1.20 V                   | 130                        | 90.13                  | 1.58                           |
| 2                                                   | *2441.00       | 90.82 AV                      |                   |                | 1.20 V                   | 130                        | 89.24                  | 1.58                           |
| 3                                                   | 4882.00        | 50.31 PK                      | 74.00             | -23.69         | 1.40 V                   | 156                        | 42.65                  | 7.66                           |
| 4                                                   | 4882.00        | 38.29 AV                      | 54.00             | -15.71         | 1.40 V                   | 156                        | 30.63                  | 7.66                           |
| 5                                                   | 7323.00        | 53.22 PK                      | 74.00             | -20.78         | 1.45 V                   | 36                         | 41.63                  | 11.59                          |
| 6                                                   | 7323.00        | 39.68 AV                      | 54.00             | -14.32         | 1.45 V                   | 36                         | 28.09                  | 11.59                          |

**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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 78 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> |               |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2480.00       | 91.21 PK                      |                   |                | 1.20 H                   | 130                        | 89.62                  | 1.59                           |
| 2                                                   | *2480.00       | 90.85 AV                      |                   |                | 1.20 H                   | 130                        | 89.26                  | 1.59                           |
| 3                                                   | 2483.50        | 43.16 PK                      | 74.00             | -30.84         | 1.20 H                   | 130                        | 41.57                  | 1.59                           |
| 4                                                   | 2483.50        | 30.28 AV                      | 54.00             | -23.72         | 1.20 H                   | 130                        | 28.69                  | 1.59                           |
| 5                                                   | 4960.00        | 50.36 PK                      | 74.00             | -23.64         | 1.45 H                   | 254                        | 42.29                  | 8.07                           |
| 6                                                   | 4960.00        | 39.18 AV                      | 54.00             | -14.82         | 1.45 H                   | 254                        | 31.11                  | 8.07                           |
| 7                                                   | 7440.00        | 53.11 PK                      | 74.00             | -20.89         | 1.20 H                   | 39                         | 41.37                  | 11.74                          |
| 8                                                   | 7440.00        | 40.38 AV                      | 54.00             | -13.62         | 1.20 H                   | 39                         | 28.64                  | 11.74                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2480.00       | 92.63 PK                      |                   |                | 1.40 V                   | 150                        | 91.04                  | 1.59                           |
| 2                                                   | *2480.00       | 90.15 AV                      |                   |                | 1.40 V                   | 150                        | 88.56                  | 1.59                           |
| 3                                                   | 2483.50        | 44.81 PK                      | 74.00             | -29.19         | 1.40 V                   | 150                        | 43.22                  | 1.59                           |
| 4                                                   | 2483.50        | 32.62 AV                      | 54.00             | -21.38         | 1.40 V                   | 150                        | 31.03                  | 1.59                           |
| 5                                                   | 4960.00        | 51.28 PK                      | 74.00             | -22.72         | 1.56 V                   | 34                         | 43.21                  | 8.07                           |
| 6                                                   | 4960.00        | 40.69 AV                      | 54.00             | -13.31         | 1.56 V                   | 34                         | 32.62                  | 8.07                           |
| 7                                                   | 7440.00        | 52.19 PK                      | 74.00             | -21.81         | 1.46 V                   | 269                        | 40.45                  | 11.74                          |
| 8                                                   | 7440.00        | 41.18 AV                      | 54.00             | -12.82         | 1.46 V                   | 269                        | 29.44                  | 11.74                          |

**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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



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## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



Test Report No.: RF2302WDG0253-1

## 5 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---