

|                                                                                                                                                                                                                                                         |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Prüfbericht - Nr.:</b>                                                                                                                                                                                                                               |                                              | <b>ULR-TC568819300000030F 001</b>                                                   |                                                        | <b>Seite 1 von 27</b>                            |                                                                                       |
| <i>Test Report No.:</i>                                                                                                                                                                                                                                 |                                              |                                                                                     |                                                        | <i>Page 1 of 27</i>                              |                                                                                       |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                  |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| Hill-rom Services Private Limited<br>1 Yishun Avenue 7, Singapore 768923                                                                                                                                                                                |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| <b>Gegenstand der Prüfung:</b><br><i>Test item:</i>                                                                                                                                                                                                     |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| Airway clearance device                                                                                                                                                                                                                                 |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| <b>Bezeichnung:</b><br><i>Identification:</i>                                                                                                                                                                                                           |                                              | <b>POPT1</b>                                                                        |                                                        | <b>Serien-Nr.:</b><br><i>Serial No.</i>          |                                                                                       |
|                                                                                                                                                                                                                                                         |                                              |                                                                                     |                                                        | U044OP0050                                       |                                                                                       |
| <b>Wareneingangs-Nr.:</b><br><i>Receipt No.:</i>                                                                                                                                                                                                        |                                              | <b>166120073</b>                                                                    |                                                        | <b>Eingangsdatum:</b><br><i>Date of receipt:</i> |                                                                                       |
|                                                                                                                                                                                                                                                         |                                              |                                                                                     |                                                        | 01-04-2019                                       |                                                                                       |
| <b>Prüfort:</b><br><i>Testing location:</i>                                                                                                                                                                                                             |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| Refer Page 5 of 27 for Test site details                                                                                                                                                                                                                |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                     |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| FCC Part 15: Subpart C<br>ANSI C63.10-2013                                                                                                                                                                                                              |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| <b>Prüfergebnis:</b><br><i>Test Result:</i>                                                                                                                                                                                                             |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).<br><i>The test items passed the test specification(s).</i>                                                                                                                               |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| <b>Prüflaboratorium:</b><br><i>Testing Laboratory:</i>                                                                                                                                                                                                  |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| TÜV Rheinland (India) Pvt. Ltd.<br>27/B, 2nd corss, Electronic City Phase 1<br>Bangalore – 560 100. India<br>FCC Test Site Registration no.: 496599                                                                                                     |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| <b>geprüft / tested by:</b>                                                                                                                                                                                                                             |                                              |                                                                                     | <b>kontrolliert / reviewed by:</b>                     |                                                  |                                                                                       |
| 03.04.2019   Pramod Sharma R<br>Engineer                                                                                                                                                                                                                |                                              |                                                                                     | 25.06.2019   Mahammadgouse Kaladagi<br>Senior Engineer |                                                  |                                                                                       |
| <b>Datum</b><br><i>Date</i>                                                                                                                                                                                                                             | <b>Name/Stellung</b><br><i>Name/Position</i> | <b>Unterschrift</b><br><i>Signature</i>                                             | <b>Datum</b><br><i>Date</i>                            | <b>Name/Stellung</b><br><i>Name/Position</i>     | <b>Unterschrift</b><br><i>Signature</i>                                               |
|                                                                                                                                                                                                                                                         |                                              |  |                                                        |                                                  |  |
| <b>Sonstiges / Other Aspects:</b>                                                                                                                                                                                                                       |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| FCC ID: 2AJKO-OPTIMUS                                                                                                                                                                                                                                   |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| <b>Abkürzungen:</b>                                                                                                                                                                                                                                     |                                              |                                                                                     | <b>Abbreviations:</b>                                  |                                                  |                                                                                       |
| P(ass) = entspricht Prüfgrundlage                                                                                                                                                                                                                       |                                              |                                                                                     | P(ass) = passed                                        |                                                  |                                                                                       |
| F(ail) = entspricht nicht Prüfgrundlage                                                                                                                                                                                                                 |                                              |                                                                                     | F(ail) = failed                                        |                                                  |                                                                                       |
| N/A = nicht anwendbar                                                                                                                                                                                                                                   |                                              |                                                                                     | N/A = not applicable                                   |                                                  |                                                                                       |
| N/T = nicht getestet                                                                                                                                                                                                                                    |                                              |                                                                                     | N/T = not tested                                       |                                                  |                                                                                       |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>                                |                                              |                                                                                     |                                                        |                                                  |                                                                                       |
| <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i> |                                              |                                                                                     |                                                        |                                                  |                                                                                       |

## Test Summary

| Section                        | Test item                                                                  | Result |
|--------------------------------|----------------------------------------------------------------------------|--------|
| 15.247 (b) (3)                 | Maximum Conducted Output Power                                             | Pass   |
| 15.247 (a) (2)                 | 6 dB / DTS Bandwidth                                                       | NA     |
| 15.247 (e)                     | Maximum Power Spectral Density                                             | NA     |
| 15.247 (d)                     | Emissions in non – restricted band                                         | NA     |
| 15.247 (a)(1)                  | Conducted Spurious Emissions                                               | NA     |
| 15.247 (d) / (15.209 & 15.205) | Radiated spurious emissions and emissions in Restricted bands of operation | Pass   |
| 15.207                         | Conducted emission on A.C power lines                                      | Pass   |

NA-Not applicable

### Product Variants:

| Variant | Model Number | Modes available        |
|---------|--------------|------------------------|
| 1       | POPT1        | Maximus™ System        |
| 2       | PSC1         | Synclara™ Cough System |
| 3       | PVL1         | Volara™ Cough System   |

### Note:

1. Model POPT1 is the highest configuration where it has both synclara and volara modes available , hence the testing is carried out on this model.
2. This product contains approved WiFi and Bluetooth module. Only radiated spurious emission tests will be performed for both Wi-Fi and Bluetooth . For other Wi-Fi and Bluetooth test results, please refer FCC ID XF6-RS9113DB and SQGBT900 respectively.
3. This Product also contains Unapproved RFID Module with frequency 13.56MHz, for test results refer test report number ULR-TC568819300000029F 001.

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# 1 GENERAL REMARKS

## 1.1 Complimentary Materials

All attachments are integral part of this test report. This applies especially to the following appendix:

1. TEST SETUP PHOTOS
- 2: EUT EXTERNAL PHOTOS
- 3: EUT INTERNAL PHOTOS
- 4: FCC LABEL AND LABEL LOCATION
- 5: BLOCK DIAGRAM
- 6: SPECIFICATION OF EUT
- 7: SCHEMATIC DIAGRAM
- 8: BILL OF MATERIAL
- 9: USER MANUAL

## 2 TEST SITES

### 2.1 Testing Facilities

- 1) TÜV Rheinland (India) Private Limited  
108 , Beside ISBR Business School,  
Electronic city Phase I  
Bangalore - 560 100.
- 2) TÜV Rheinland (India) Private Limited  
27/B, 2<sup>nd</sup> Cross,  
Electronic City Phase 1, Bangalore- 560100

### 2.2 List of Test and Measurement Instruments

**Table 1: List of test and measurement instruments**

| Equipment              | Manufacturer                | Model Name  | Serial Number | Calibration Due Date | Periodicity | Used for Test Items                 |
|------------------------|-----------------------------|-------------|---------------|----------------------|-------------|-------------------------------------|
| USB Peak power sensor  | AIMIL Ltd                   | 55006       | 10231         | 22-12-2019           | Yearly      | Antenna-Port conducted Measurements |
| EMI Test Receiver      | Rohde & Schwarz             | ESU 40      | 100288        | 11/10/2019           | Yearly      | Radiated Spurious Emission          |
| Active loop antenna    | Frankonia                   | LAX-10      | LAX-10-800    | 15-01-2020           | Yearly      |                                     |
| Biconical Antenna      | ETS                         | 3142D       | 81354         | 09/07/2019           | Yearly      |                                     |
| Log-Periodic Antenna   | Schwarzbeck mess-elektronik | VUSLP-9111B | 9111B-111     | 17-01-2020           | Yearly      |                                     |
| Broadband Horn Antenna | Frankonia                   | HAX-18      | HAX18-802     | 17-05-2019           | Yearly      |                                     |
| Semi Anechoic Chamber  | Frankonia                   | -           | -             | -                    | -           |                                     |

## 3 GENERAL PRODUCT INFORMATION

### 3.1 Product Function and Intended Use

The **Synclara™ Cough System** is intended for use on patients who are unable to cough or clear secretions effectively due to reduced peak cough expiratory flow, as a result of high spinal cord injuries, neuromuscular deficits, or severe fatigue associated with intrinsic lung disease.

The **Volara™ System** is intended for the mobilization of secretions, lung expansion therapy, the treatment and prevention of pulmonary atelectasis, and has the ability to provide supplemental oxygen when used with oxygen supply.

The **Maximus™ System, when used as a Synclara™ Cough System** is indicated for, but is not limited to patients with these conditions:

- Muscular dystrophy
- Spinal muscular atrophy
- Amyotrophic lateral sclerosis
- Spinal cord injuries
- Myasthenia gravis
- Post-polio
- COPD patient with a weak and ineffective cough

The **Maximus™ System, when used as a Volara™ System** is indicated for, but is not limited to patients with these conditions:

- Difficulty in clearance of secretions
- Pulmonary atelectasis

#### Model differences:

The model POPT1 (Maximus™ System) provides features of both the Synclara™ System and the Volara™ System. The model PSC1 (Synclara™ System) only provides feature of Synclara™ System. It doesn't have the OLE-module. And it's identical to model POPT1 (Maximus™ System) with same rated voltage and rated power, same power supply unit, same output character, except for the circuit diagram, PCB layout and construction.

The model PVL1 (Volara™ System) only provides feature of Volara™ System. And it's identical to model POPT1 (Maximus™ System) with same rated voltage and rated power, same power supply unit, same output character, same the circuit diagram, same PCB layout and same construction.

### 3.2 Ratings and System Details

**Table 2: Ratings and System Details**

|                                  |                                                                         |                                |                            |
|----------------------------------|-------------------------------------------------------------------------|--------------------------------|----------------------------|
| <b>Operating frequency range</b> | Wi-Fi_2.4GHz:2400 MHz to 2483.5 MHz                                     |                                |                            |
|                                  | Wi-Fi_5GHz U-NII-1 : 5150MHz to 5250MHz<br>U-NII-3 : 5725MHz to 5850MHz |                                |                            |
|                                  | Bluetooth:2400 MHz to 2483.5 MHz                                        |                                |                            |
| <b>Radio Protocol</b>            | <b>Wi-Fi_2.4GHz</b>                                                     | <b>Wi-Fi_5GHz</b>              | <b>Bluetooth</b>           |
| <b>Bandwidth</b>                 | 20 MHz                                                                  | 20 MHz                         | 1 MHz                      |
| <b>Modulation</b>                | 802.11b: DSSS<br>802.11g: OFDM<br>802.11n: OFDM                         | 802.11a: OFDM<br>802.11n: OFDM | GFSK<br>π/4 DQPSK<br>8DPSK |
| <b>Number of antennas</b>        | 1                                                                       |                                | 1                          |
| <b>Antenna type</b>              | Ceramic                                                                 |                                |                            |
| <b>Antenna gain</b>              | Wi-Fi_2.4GHz                                                            |                                | 0.99dBi                    |
|                                  | Wi-Fi_5GHz                                                              |                                | 4.42dBi                    |
|                                  | Bluetooth                                                               |                                | 0.5dBi                     |
| <b>Supply Voltage to Product</b> | 100-240VAC/50-60Hz                                                      |                                |                            |
| <b>Dimensions</b>                | 22.3cm x 23.3cm x 27cm                                                  |                                |                            |
| <b>Environmental conditions</b>  | Operating: +5 °C to +35 °C                                              |                                |                            |

### 3.3 Measurement Uncertainty:

**Table 3: Measurement Uncertainty**

| <b>Parameter</b>              | <b>Uncertainty</b> |
|-------------------------------|--------------------|
| RF output power, conducted    | ±1.5 dB            |
| Unwanted Emissions, conducted | ±3 dB              |
| All emissions, radiated       | ±6 dB              |
| Temperature                   | ±3 °C              |
| Supply Voltages               | ±3 %               |
| Time                          | ±5 %               |

## 4 TEST SET-UP AND OPERATION MODE

### 4.1 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle transmission on low, mid and high channel.

### 4.2 Test Operation and Test Software

- Hardware version 1
- Software version MCB 0.0.21.0
- Software version DCB 0.0.21.0

### 4.3 Special Accessories and Auxiliary Equipment

- Test Laptop was used to configure the device in transmission mode and module was tested with following accessories.
  1. Stand Mount
  2. Foot switch

### 4.4 Countermeasures to achieve EMC Compliance

- None

### 4.5 Test modes – data rates and modulations

For Radiated spurious emissions only the worst case results and are reported in this report.

### 4.6 List of frequencies

| Frequency Band (MHz) | Channel No. | Channel Frequency (MHz) |
|----------------------|-------------|-------------------------|
| 2400 – 2483.5        | 1           | 2412                    |
|                      | 2           | 2417                    |
|                      | 3           | 2422                    |
|                      | 4           | 2427                    |
|                      | 5           | 2432                    |
|                      | 6           | 2437                    |
|                      | 7           | 2437                    |
|                      | 8           | 2447                    |
|                      | 9           | 2452                    |
|                      | 10          | 2457                    |
|                      | 11          | 2462                    |

Table 4: List of Wi-Fi\_2.4GHz center Frequencies

| Frequency Band (MHz)         | Channel Number | Channel Frequency |
|------------------------------|----------------|-------------------|
| U-NII-1<br>5.15 – 5.25 GHz   | 36             | 5180              |
|                              | 48             | 5240              |
| U-NII-1<br>5.725 – 5.850 GHz | 149            | 5745              |
|                              | 165            | 5825              |

Table 5:: List of Wi-Fi\_5GHz center Frequencie

| Frequency Band             | Channel No. | Frequency (MHz) |
|----------------------------|-------------|-----------------|
| Bluetooth (2.4-2.4835 GHz) | 0           | 2402            |
|                            | 1           | 2404            |
|                            | 2           | 2406            |
|                            | 3           | 2408            |
|                            | :           | :               |
|                            | :           | :               |
|                            | 18          | 2438            |
|                            | 19          | 2440            |
|                            | 20          | 2437            |
|                            | :           | :               |
|                            | :           | :               |
|                            | 36          | 2474            |
|                            | 37          | 2476            |
|                            | 38          | 2478            |
|                            | 39          | 2480            |

Table 6:: List of Bluetooth center Frequencie

Note:

**EUT serial number:**

Conducted measurement sample: U044OP0052

Radiated measurement sample : U044OP0050

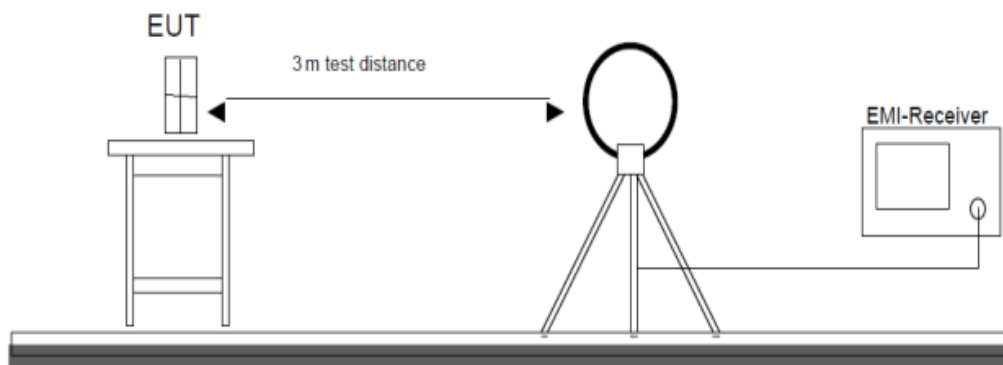
## 5 TEST METHODOLOGY

### 5.1 Radiated Emission Test

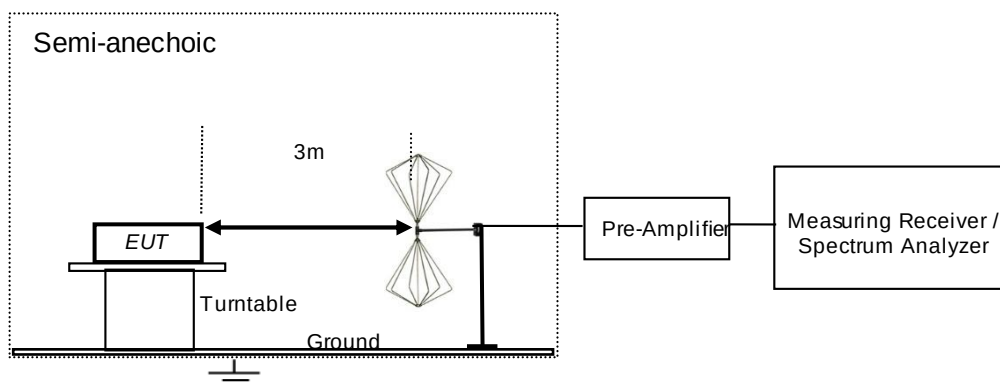
The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000 MHz was performed by horn antenna, The measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 200 MHz was performed by Baloon and Biconical Antenna, and mesurement from 200 MHz to 1 GHz was performed by Log-Periodic Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded.

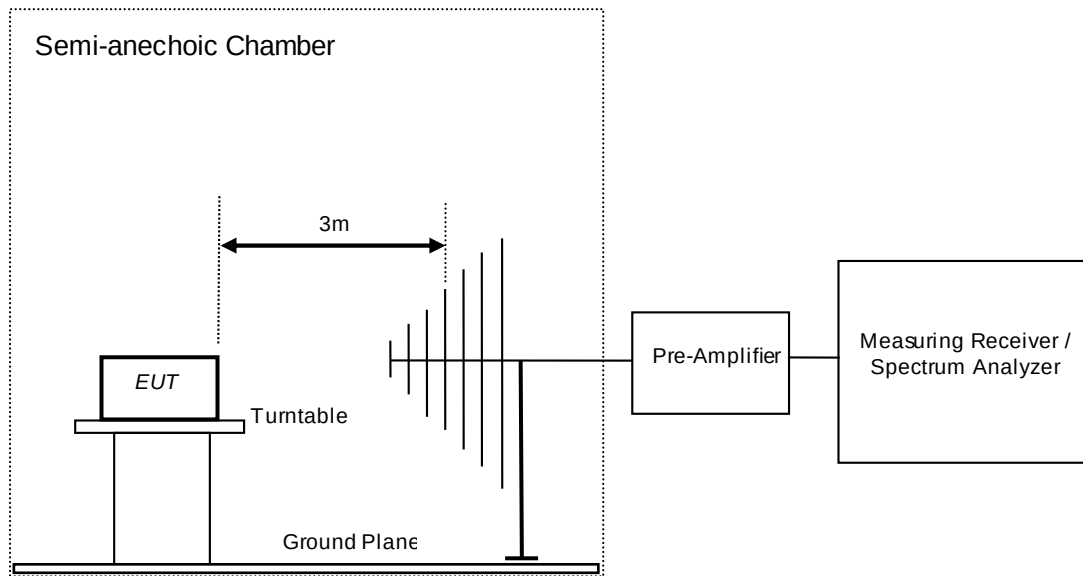
#### 5.1.1 Test Setup Configuration



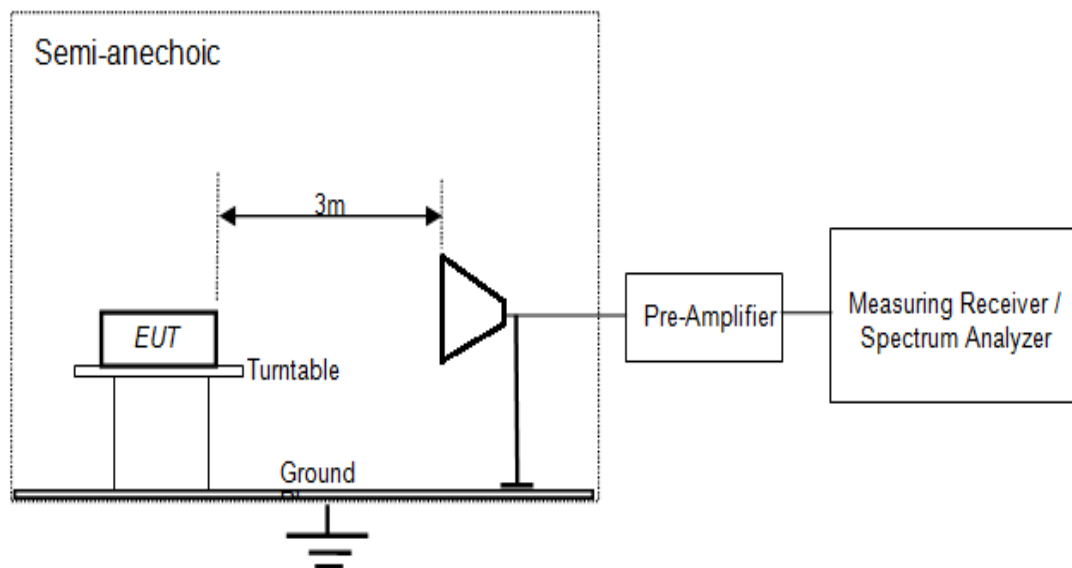
**Figure 1: Frequency Range 9 kHz- 30 MHz**



**Figure 2: Frequency Range 30 MHz – 200 MHz**



**Figure 3: Frequency Range 200 MHz - 1GHz**



**Figure 4: Frequency Range above 1 GHz**

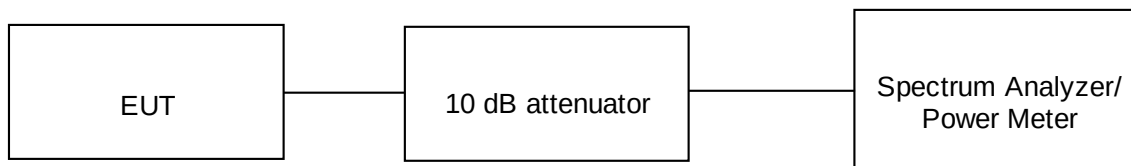
## 6 TEST RESULTS

### 6.1 Maximum Peak Conducted Output Power

**Result**

**Pass**

|                       |                                     |
|-----------------------|-------------------------------------|
| Test Specification    | FCC part 15 Subpart C 15.247 (b)(3) |
| Measurement Bandwidth | 1 MHz                               |
| Detector              | Peak                                |
| Requirement           | $\leq 1 \text{ W (30 dBm)}$         |



Cable Loss & attenuation loss are considered in the test results

**Normal Test Condition:**

Temperature (Norm) = + 25 °C      Voltage (Vnorm) = 230 VAC      RH= 62 %

**Test results:**

**Note:**

Measurements were made as per section 9.1.1 in KDB 558074 D01 DTS Measurement Guidance v04.

11 dB attenuator + 0.4 dB Cable loss = 11.4 dB offset is considered in below results

**Table 7: Maximum peak conducted output power verified Test Results**

**Wi-Fi-2.4GHz**

| Mode | Data rate (Mbps) | Channel Frequency (MHz) | Power (dBm) |
|------|------------------|-------------------------|-------------|
| b    | 11               | 2437                    | 17.31       |
| g    | 54               | 2437                    | 17.79       |
| n    | MCS7             | 2437                    | 17.3        |

**Wi-Fi-5GHz**

| Mode | Data rate (Mbps) | Channel Frequency (MHz) | Power (dBm) |
|------|------------------|-------------------------|-------------|
| a    | 6                | 5180                    | -1.48       |
|      |                  | 5240                    | -3.2        |
|      |                  | 5745                    | -4.39       |
|      |                  | 5825                    | -1.85       |
| n    | MCS0             | 5180                    | -1.01       |
|      |                  | 5240                    | -2.29       |
|      |                  | 5745                    | -6.94       |
|      |                  | 5825                    | -4.01       |

**BT**

| Data rate (Mbps) | Channel Frequency (MHz) | Power (dBm) |
|------------------|-------------------------|-------------|
| 1                | 2402                    | -4.28       |
|                  | 2440                    | -1.92       |
|                  | 2480                    | -0.19       |
| 2                | 2402                    | -7.46       |
|                  | 2440                    | -1.92       |
|                  | 2480                    | -0.19       |
| 3                | 2402                    | -7.38       |
|                  | 2440                    | -1.93       |
|                  | 2480                    | -0.15       |

## 6.2 Radiated spurious emissions and emissions in restricted bands of operation

**Result**

**Pass**

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Test Specification   | FCC part 15 Subpart C Section 15.247 (d) / (15.209 & 15.205)    |
| Test Method          | ANSI C 63.10 - 2013                                             |
| Measurement Location | Semi Anechoic Chamber                                           |
| Measuring Distance   | 3 m                                                             |
| Detector             | QP for frequency below 1 GHz, average for frequency above 1 GHz |
| Requirement          | As per the limits mentioned in the below table                  |

**Table 8: Transmitter limits for Radiated emission**

| Frequency (MHz) | Field strength ( $\mu\text{V/m}$ ) | Field strength ( $\text{dB}\mu\text{V/m}$ ) | Distance of Measurement (m) |
|-----------------|------------------------------------|---------------------------------------------|-----------------------------|
| 0.009 – 0.490   | 2400/F(kHz)                        | 48.50 – 13.80                               | 300*                        |
| 0.490 – 1.705   | 24000/F(kHz)                       | 33.80 – 23.00                               | 30*                         |
| 1.705 -30       | 30                                 | 29.54                                       | 30*                         |
| 30-88           | 100                                | 40.0                                        | 3                           |
| 88-216          | 150                                | 43.5                                        | 3                           |
| 216-960         | 200                                | 46.0                                        | 3                           |
| Above 960       | 500                                | 54.0                                        | 3                           |

Remark: \* The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54  $\text{dB}\mu\text{V/m}$  at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

### Test Conditions:

Supply Voltage: 230V AC

### Environmental conditions:

Temperature: +25°C      RH: 54.6 %

**Test results:**

No emissions found in frequency range 9 kHz to 30MHz.

**Table 9: Test results for frequencies in the range 30MHz – 1GHz**

**Table Top:**

Volara Mode:

| Polarization | Frequency (MHz) | Measured value(dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------|-----------------|------------------------|----------------|-------------|
| Vertical     | 40.676          | 33.67                  | 40             | -6.33       |
|              | 46.88           | 34.09                  | 40             | -5.91       |
|              | 83.992          | 33.55                  | 40             | -6.45       |
|              | 221.36          | 40.12                  | 46             | -5.88       |
|              | 336.02          | 36.73                  | 46             | -9.27       |
| Horizontal   | 89.98           | 31.9                   | 43.5           | -11.6       |
|              | 193.9           | 35.19                  | 43.5           | -8.31       |
|              | 335.95          | 39.33                  | 46             | -6.67       |

Syncara Mode:

| Polarization | Frequency (MHz) | Measured value(dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------|-----------------|------------------------|----------------|-------------|
| Vertical     | 42.24           | 21.75                  | 40             | -18.25      |
|              | 81.87           | 22.92                  | 40             | -17.08      |
|              | 163.35          | 16.87                  | 43.5           | -26.63      |
|              | 503.9           | 22.64                  | 46             | -23.36      |
|              | 672.11          | 28.46                  | 46             | -17.54      |
| Horizontal   | 42.36           | 21.83                  | 40             | -18.17      |
|              | 45.27           | 21.12                  | 40             | -18.88      |
|              | 73.68           | 17.19                  | 40             | -22.81      |
|              | 504.02          | 25.92                  | 46             | -20.08      |
|              | 672.14          | 26.14                  | 46             | -19.86      |

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**Stand Mount:**

| Polarization | Frequency (MHz) | Measured value(dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------|-----------------|------------------------|----------------|-------------|
| Vertical     | 89.96           | 34.83                  | 40             | -5.17       |
|              | 149.95          | 34.8                   | 40             | -5.2        |
|              | 233.68          | 37.13                  | 40             | -2.87       |
|              | 755.78          | 37.15                  | 46             | -8.85       |
| Horizontal   | 89.98           | 32.05                  | 43.5           | -11.45      |
|              | 191.55          | 33.81                  | 43.5           | -9.69       |
|              | 238.85          | 44.02                  | 46             | -1.98       |
|              | 335.94          | 38.8                   | 46             | -7.2        |

Test results for frequencies in the range 1 GHz - 26.5 GHz

**Table 10: Radiated spurious emissions and emissions in restricted bands of operation Test Results**

Data rate:11Mbps

| Channel Frequency (MHz) | Polarization | Measured Frequency (MHz) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-------------------------|--------------|--------------------------|-------------------------|----------------|-------------|
| 2412                    | Vertical     | 2390(Pk)                 | 47.83                   | 74             | -26.17      |
|                         |              | 2390(Av)                 | 29.79                   | 54             | -24.21      |
|                         |              | 2412(Pk)                 | 83.34                   | *              | -           |
|                         |              | 2412(Av)                 | 75.2                    | *              | -           |
|                         |              | 4824(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4824(Av)                 |                         |                |             |
|                         | Horizontal   | 2390(Pk)                 | 47.97                   | 74             | -26.03      |
|                         |              | 2390(Av)                 | 29.35                   | 54             | -24.65      |
|                         |              | 2412(Pk)                 | 83.69                   | *              | -           |
|                         |              | 2412(Av)                 | 75.07                   | *              | -           |
|                         |              | 4824(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4824(Av)                 |                         |                |             |
| 2437                    | Vertical     | 2437(Pk)                 | 90.8                    | *              | -           |
|                         |              | 2437(Av)                 | 82.99                   | *              | -           |
|                         |              | 4874(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4874(Av)                 |                         |                |             |
|                         | Horizontal   | 2437(Pk)                 | 92.09                   | *              | -           |
|                         |              | 2437(Av)                 | 84.28                   | *              | -           |
|                         |              | 4874(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4874(Av)                 |                         |                |             |
| 2462                    | Vertical     | 2462(Pk)                 | 90.24                   | *              | -           |
|                         |              | 2462(Av)                 | 82.34                   | *              | -           |
|                         |              | 4924(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4924(Av)                 |                         |                |             |
|                         |              | 2483.5(Pk)               | 34.58                   | 74             | -39.42      |
|                         |              | 2483.5(Av)               | 24.37                   | 54             | -29.63      |
|                         | Horizontal   | 2462(Pk)                 | 92.11                   | *              | -           |
|                         |              | 2462(Av)                 | 84.23                   | *              | -           |
|                         |              | 4924(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4924(Av)                 |                         |                |             |
|                         |              | 2483.5(Pk)               | 35.51                   | 74             | -38.49      |
|                         |              | 2483.5(Av)               | 24.71                   | 54             | -29.29      |

Note:

Pk: Peak Detector  
Av: Average Detector

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**Data rate:54Mbps**

| Channel Frequency (MHz) | Polarization | Measured Frequency (MHz) | Field Strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-------------------------|--------------|--------------------------|-------------------------|----------------|-------------|
| 2412                    | Vertical     | 2390(Pk)                 | 47.22                   | 74             | -26.78      |
|                         |              | 2390(Av)                 | 29.97                   | 54             | -24.03      |
|                         |              | 2412(Pk)                 | 85.28                   | *              | -           |
|                         |              | 2412(Av)                 | 74.95                   | *              | -           |
|                         |              | 4824(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4824(Av)                 |                         |                |             |
|                         | Horizontal   | 2390(Pk)                 | 49.53                   | 74             | -24.47      |
|                         |              | 2390(Av)                 | 32.24                   | 54             | -21.76      |
|                         |              | 2412(Pk)                 | 87.24                   | *              | -           |
|                         |              | 2412(Av)                 | 76.96                   | *              | -           |
|                         |              | 4824(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4824(Av)                 |                         |                |             |
| 2437                    | Vertical     | 2437(Pk)                 | 87.37                   | *              | -           |
|                         |              | 2437(Av)                 | 77.76                   | *              | -           |
|                         |              | 4874(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4874(Av)                 |                         |                |             |
|                         | Horizontal   | 2437(Pk)                 | 89.6                    | *              | -           |
|                         |              | 2437(Av)                 | 79.72                   | *              | -           |
|                         |              | 4874(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4874(Av)                 |                         |                |             |
| 2462                    | Vertical     | 2462(Pk)                 | 84.28                   | *              | -           |
|                         |              | 2462(Av)                 | 73.8                    | *              | -           |
|                         |              | 4924(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4924(Av)                 |                         |                |             |
|                         |              | 2483.5(Pk)               | 47.01                   | 74             | -26.99      |
|                         |              | 2483.5(Av)               | 29.91                   | 54             | -24.09      |
|                         | Horizontal   | 2462(Pk)                 | 84.26                   | *              | -           |
|                         |              | 2462(Av)                 | 74.35                   | *              | -           |
|                         |              | 4924(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4924(Av)                 |                         |                |             |
|                         |              | 2483.5(Pk)               | 48.7                    | 74             | -25.3       |
|                         |              | 2483.5(Av)               | 30.98                   | 54             | -23.02      |

Note:

Pk: Peak Detector  
Av: Average Detector

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**Data rate:MCS7**

| Channel Frequency (MHz) | Polarization | Measured Frequency (MHz) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-------------------------|--------------|--------------------------|-------------------------|----------------|-------------|
| 2412                    | Vertical     | 2390(Pk)                 | 49.15                   | 74             | -24.85      |
|                         |              | 2390(Av)                 | 30.55                   | 54             | -23.45      |
|                         |              | 2412(Pk)                 | 84.47                   | *              | -           |
|                         |              | 2412(Av)                 | 75.9                    | *              | -           |
|                         |              | 4824(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4824(Av)                 |                         |                |             |
|                         | Horizontal   | 2390(Pk)                 | 49.69                   | 74             | -24.31      |
|                         |              | 2390(Av)                 | 31.22                   | 54             | -22.78      |
|                         |              | 2412(Pk)                 | 84.41                   | *              | -           |
|                         |              | 2412(Av)                 | 75.98                   | *              | -           |
|                         |              | 4824(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4824(Av)                 |                         |                |             |
| 2437                    | Vertical     | 2437(Pk)                 | 87.44                   | *              | -           |
|                         |              | 2437(Av)                 | 77.22                   | *              | -           |
|                         |              | 4874(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4874(Av)                 |                         |                |             |
|                         | Horizontal   | 2437(Pk)                 | 88.46                   | *              | -           |
|                         |              | 2437(Av)                 | 77.97                   | *              | -           |
|                         |              | 4874(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4874(Av)                 |                         |                |             |
| 2462                    | Vertical     | 2462(Pk)                 | 81.76                   | *              | -           |
|                         |              | 2462(Av)                 | 71.7                    | *              | -           |
|                         |              | 4924(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4924(Av)                 |                         |                |             |
|                         |              | 2483.5(Pk)               | 47.51                   | 74             | -26.49      |
|                         |              | 2483.5(Av)               | 29.77                   | 54             | -24.23      |
|                         | Horizontal   | 2462(Pk)                 | 83.1                    | *              | -           |
|                         |              | 2462(Av)                 | 72.67                   | *              | -           |
|                         |              | 4924(Pk)                 | No Harmonics found      |                |             |
|                         |              | 4924(Av)                 |                         |                |             |
|                         |              | 2483.5(Pk)               | 47.92                   | 74             | -26.08      |
|                         |              | 2483.5(Av)               | 30.84                   | 54             | -23.16      |

Note:

Pk: Peak Detector  
Av: Average Detector

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**Wi-Fi-5GHz**

**Data rate:6Mbps**

| Band | Channel | Frequency (MHz) | Polarization | Field Strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|------|---------|-----------------|--------------|-------------------------|----------------|-------------|
| 1    | Low     | 5150(Pk)        | Vertical     | 31.29                   | 68.23          | -36.94      |
|      |         | 5150(Av)        |              | 17.83                   | 54             | -36.17      |
|      |         | 5180 (Pk)       |              | 72.99                   | *              | -           |
|      |         | 5180 (Av)       |              | 64.28                   | *              | -           |
|      |         | 10360 (Pk)      | Horizontal   | No Harmonics found      |                |             |
|      |         | 10360 (Av)      |              | 35.47                   | 68.23          | -32.76      |
|      |         | 5150(Pk)        |              | 18.58                   | 54             | -35.42      |
|      |         | 5150(Av)        |              | 79.65                   | *              | -           |
|      |         | 5180 (Pk)       |              | 70.85                   | *              | -           |
|      |         | 5180 (Av)       |              | No Harmonics found      |                |             |
|      |         | 10360 (Pk)      | Vertical     | 28.87                   | 68.23          | -39.36      |
|      |         | 10360 (Av)      |              | 17.21                   | 54             | -36.79      |
|      | High    | 5350(Pk)        |              | 76.12                   | *              | -           |
|      |         | 5350(Av)        |              | 67.55                   | *              | -           |
|      |         | 5240 (Pk)       | Horizontal   | No Harmonics found      |                |             |
|      |         | 5240 (Av)       |              | 28.56                   | 68.23          | -39.67      |
|      |         | 10480 (Pk)      |              | 17.13                   | 54             | -36.87      |
|      |         | 10480 (Av)      |              | 77.17                   | *              | -           |
|      |         | 5350(Pk)        |              | 69.13                   | *              | -           |
|      |         | 5350(Av)        |              | No Harmonics found      |                |             |
|      |         | 5240 (Pk)       | Vertical     | 73.84                   | *              | -           |
|      |         | 5240 (Av)       |              | 64.98                   | *              | -           |
|      |         | 10480 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 10480 (Av)      |              | 79.73                   | *              | -           |

Note:

Pk: Peak Detector  
Av: Average Detector

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**Data rate:MCS0**

| Band | Channel | Frequency (MHz) | Polarization | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|------|---------|-----------------|--------------|-------------------------|----------------|-------------|
| 1    | Low     | 5150(Pk)        | Vertical     | 32.57                   | 68.23          | -35.66      |
|      |         | 5150(Av)        |              | 18                      | 54             | -36         |
|      |         | 5180 (Pk)       |              | 75.22                   | *              |             |
|      |         | 5180 (Av)       |              | 66.57                   | *              |             |
|      |         | 10360 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 10360 (Av)      |              |                         |                |             |
|      |         | 5150(Pk)        | Horizontal   | 37.86                   | 68.23          | -30.37      |
|      |         | 5150(Av)        |              | 19.13                   | 54             | -34.87      |
|      |         | 5180 (Pk)       |              | 80.44                   | *              |             |
|      |         | 5180 (Av)       |              | 72.16                   | *              |             |
|      |         | 10360 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 10360 (Av)      |              |                         |                |             |
|      | High    | 5350(Pk)        | Vertical     | 28.77                   | 68.23          | -39.46      |
|      |         | 5350(Av)        |              | 17.22                   | 54             | -36.78      |
|      |         | 5240 (Pk)       |              | 75.41                   | *              |             |
|      |         | 5240 (Av)       |              | 66.35                   | *              |             |
|      |         | 10480 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 10480 (Av)      |              |                         |                |             |
|      |         | 5350(Pk)        | Horizontal   | 29.71                   | 68.23          | -38.52      |
|      |         | 5350(Av)        |              | 17.22                   | 54             | -36.78      |
|      |         | 5240 (Pk)       |              | 78.05                   | *              |             |
|      |         | 5240 (Av)       |              | 68.43                   | *              |             |
|      |         | 10480 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 10480 (Av)      |              |                         |                |             |
| 3    | Low     | 5745 (Pk)       | Vertical     | 73.45                   | *              |             |
|      |         | 5745(Av)        |              | 63.73                   | *              |             |
|      |         | 11490 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 11490 (Av)      |              |                         |                |             |
|      |         | 5745 (Pk)       | Horizontal   | 79.1                    | *              |             |
|      |         | 5745(Av)        |              | 69.37                   | *              |             |
|      |         | 11490 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 11490 (Av)      |              |                         |                |             |
|      | High    | 5825 (Pk)       | Vertical     | 76                      | *              |             |
|      |         | 5825(Av)        |              | 66.2                    | *              |             |
|      |         | 11650 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 11650 (Pk)      |              |                         |                |             |
|      |         | 5825 (Pk)       | Horizontal   | 79.45                   | *              |             |
|      |         | 5825(Av)        |              | 69.74                   | *              |             |
|      |         | 11650 (Pk)      |              | No Harmonics found      |                |             |
|      |         | 11650 (Pk)      |              |                         |                |             |

Note:

Pk: Peak Detector  
Av: Average Detector

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**Bluetooth**

**Data rate:1Mbps**

| Channel Frequency (MHz) | Polarization | Measured Frequency (MHz) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-------------------------|--------------|--------------------------|-------------------------|----------------|-------------|
| 2402                    | Vertical     | 2390(Pk)                 | 38.64                   | 74             | -35.36      |
|                         |              | 2390(Av)                 | 22.15                   | 54             | -31.85      |
|                         |              | 2402(Pk)                 | 93.42                   | *              |             |
|                         |              | 2402(Av)                 | 88.21                   | *              |             |
|                         |              | 4804(Pk)                 | 53.89                   | 74             | -20.11      |
|                         |              | 4804(Av)                 | 46.2                    | 54             | -7.8        |
|                         | Horizontal   | 2390(Pk)                 | 34.09                   | 74             | -39.91      |
|                         |              | 2390(Av)                 | 22.2                    | 54             | -31.8       |
|                         |              | 2402(Pk)                 | 95.13                   | *              |             |
|                         |              | 2402(Av)                 | 89.91                   | *              |             |
|                         |              | 4804(Pk)                 | 49.57                   | 74             | -24.43      |
|                         |              | 4804(Av)                 | 41.07                   | 54             | -12.93      |
| 2440                    | Vertical     | 2441(Pk)                 | 96.51                   | *              |             |
|                         |              | 2441(Av)                 | 85.91                   | *              |             |
|                         |              | 4882(Pk)                 | 55.24                   | 74             | -18.76      |
|                         |              | 4882(Av)                 | 43.94                   | 54             | -10.06      |
|                         | Horizontal   | 2441(Pk)                 | 99.19                   | *              |             |
|                         |              | 2441(Av)                 | 88.59                   | *              |             |
|                         |              | 4882(Pk)                 | 51.3                    | 74             | -22.7       |
|                         |              | 4882(Av)                 | 40                      | 54             | -14         |
| 2480                    | Vertical     | 2480(Pk)                 | 97.68                   | *              |             |
|                         |              | 2480(Av)                 | 87.1                    | *              |             |
|                         |              | 4960(Pk)                 | 56.15                   | 74             | -17.85      |
|                         |              | 4960(Av)                 | 44.85                   | 54             | -9.15       |
|                         |              | 2483.5(Pk)               | 49.29                   | 74             | -24.71      |
|                         |              | 2483.5(Av)               | 32.55                   | 54             | -21.45      |
|                         | Horizontal   | 2480(Pk)                 | 97.67                   | *              |             |
|                         |              | 2480(Av)                 | 87.07                   | *              |             |
|                         |              | 4960(Pk)                 | 53.31                   | 74             | -20.69      |
|                         |              | 4960(Av)                 | 42.05                   | 54             | -11.95      |
|                         |              | 2483.5(Pk)               | 49.86                   | 74             | -24.14      |
|                         |              | 2483.5(Av)               | 32.43                   | 54             | -21.57      |

Note:

Pk: Peak Detector  
Av: Average Detector

**Data rate: 2Mbps**

| Channel Frequency (MHz) | Polarization | Measured Frequency (MHz) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-------------------------|--------------|--------------------------|-------------------------|----------------|-------------|
| 2402                    | Vertical     | 2376(Pk)                 | 39.02                   | 74             | -34.98      |
|                         |              | 2376(Av)                 | 29.63                   | 54             | -24.37      |
|                         |              | 2402(Pk)                 | 93.09                   | *              |             |
|                         |              | 2402(Av)                 | 84.72                   | *              |             |
|                         |              | 4804(Pk)                 | 49.38                   | 74             | -24.62      |
|                         |              | 4804(Av)                 | 37.69                   | 54             | -16.31      |
|                         | Horizontal   | 2390(Pk)                 | 34.71                   | 74             | -39.29      |
|                         |              | 2390(Av)                 | 23.01                   | 54             | -30.99      |
|                         |              | 2402(Pk)                 | 90.88                   | *              |             |
|                         |              | 2402(Av)                 | 81.98                   | *              |             |
|                         |              | 4804(Pk)                 | 46.04                   | 74             | -27.96      |
|                         |              | 4804(Av)                 | 33.95                   | 54             | -20.05      |
| 2440                    | Vertical     | 2441(Pk)                 | 93.94                   | *              |             |
|                         |              | 2441(Av)                 | 86.27                   | *              |             |
|                         |              | 4882(Pk)                 | 53.13                   | 74             | -20.87      |
|                         |              | 4882(Av)                 | 43.31                   | 54             | -10.69      |
|                         | Horizontal   | 2441(Pk)                 | 94.2                    | *              |             |
|                         |              | 2441(Av)                 | 86.06                   | *              |             |
|                         |              | 4882(Pk)                 | 48.87                   | 74             | -25.13      |
|                         |              | 4882(Av)                 | 37.13                   | 54             | -16.87      |
| 2480                    | Vertical     | 2480(Pk)                 | 97.75                   | *              |             |
|                         |              | 2480(Av)                 | 87.16                   | *              |             |
|                         |              | 4960(Pk)                 | 56.42                   | 74             | -17.58      |
|                         |              | 4960(Av)                 | 44.97                   | 54             | -9.03       |
|                         |              | 2483.5(Pk)               | 48.92                   | 74             | -25.08      |
|                         |              | 2483.5(Av)               | 32.59                   | 54             | -21.41      |
|                         | Horizontal   | 2480(Pk)                 | 97                      | *              |             |
|                         |              | 2480(Av)                 | 86.4                    | *              |             |
|                         |              | 4960(Pk)                 | 55.36                   | 74             | -18.64      |
|                         |              | 4960(Av)                 | 44.07                   | 54             | -9.93       |
|                         |              | 2483.5(Pk)               | 47.88                   | 74             | -26.12      |
|                         |              | 2483.5(Av)               | 31.48                   | 54             | -22.52      |

Note:

Pk: Peak Detector  
Av: Average Detector

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**Data rate: 3Mbps**

| Channel Frequency (MHz) | Polarization | Measured Frequency (MHz) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-------------------------|--------------|--------------------------|-------------------------|----------------|-------------|
| 2402                    | Vertical     | 2390(Pk)                 | 38.65                   | 74             | -35.35      |
|                         |              | 2390(Av)                 | 22.46                   | 54             | -31.54      |
|                         |              | 2402(Pk)                 | 94.1                    | *              |             |
|                         |              | 2402(Av)                 | 85.97                   | *              |             |
|                         |              | 4804(Pk)                 | 54.35                   | 74             | -19.65      |
|                         |              | 4804(Av)                 | 42.35                   | 54             | -11.65      |
|                         | Horizontal   | 2387(Pk)                 | 40.63                   | 74             | -33.37      |
|                         |              | 2387(Av)                 | 28.06                   | 54             | -25.94      |
|                         |              | 2402(Pk)                 | 96.45                   | *              |             |
|                         |              | 2402(Av)                 | 87.01                   | *              |             |
|                         |              | 4804(Pk)                 | 49.77                   | 74             | -24.23      |
|                         |              | 4804(Av)                 | 38.15                   | 54             | -15.85      |
| 2440                    | Vertical     | 2441(Pk)                 | 94.91                   | *              |             |
|                         |              | 2441(Av)                 | 87.17                   | *              |             |
|                         |              | 4882(Pk)                 | 55.1                    | 74             | -18.9       |
|                         |              | 4882(Av)                 | 43.73                   | 54             | -10.27      |
|                         | Horizontal   | 2441(Pk)                 | 95.52                   | *              |             |
|                         |              | 2441(Av)                 | 84.12                   | *              |             |
|                         |              | 4882(Pk)                 | 51.7                    | 74             | -22.3       |
|                         |              | 4882(Av)                 | 40                      | 54             | -14         |
| 2480                    | Vertical     | 2480(Pk)                 | 94.91                   | *              |             |
|                         |              | 2480(Av)                 | 87.17                   | *              |             |
|                         |              | 4960(Pk)                 | 54.01                   | 74             | -19.99      |
|                         |              | 4960(Av)                 | 45.27                   | 54             | -8.73       |
|                         |              | 2483.5(Pk)               | 42.93                   | 74             | -31.07      |
|                         |              | 2483.5(Av)               | 29.05                   | 54             | -24.95      |
|                         | Horizontal   | 2480(Pk)                 | 95.52                   | *              |             |
|                         |              | 2480(Av)                 | 84.12                   | *              |             |
|                         |              | 4960(Pk)                 | 54.03                   | 74             | -19.97      |
|                         |              | 4960(Av)                 | 40.86                   | 54             | -13.14      |
|                         |              | 2483.5(Pk)               | 42.4                    | 74             | -31.6       |
|                         |              | 2483.5(Av)               | 28.09                   | 54             | -25.91      |

Note:

Pk: Peak Detector  
Av: Average Detector

**Simultaneous transmission of Wi-Fi and Bluetooth Modules**

**All the radio modules operating in Low channel**

| Channel | Polarization | Frequency (MHz) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin(dB) |
|---------|--------------|-----------------|-------------------------|----------------|------------|
| Low     | Vertical     | 2390(Pk)        | 47.73                   | 74             | -26.27     |
|         |              | 2390(Av)        | 32.83                   | 54             | -21.17     |
|         |              | 2402(Pk)        | 87.64                   | -              | *          |
|         |              | 2402(Av)        | 79.29                   | -              | *          |
|         |              | 2412(Pk)        | 81.98                   | -              | *          |
|         |              | 2412(Av)        | 72.49                   | -              | *          |
|         |              | 4804(Pk)        | 39.12                   | 74             | -34.88     |
|         |              | 4804(Av)        | 31.43                   | 54             | -22.57     |
|         |              | 4824(Pk)        | No Harmonics found      |                |            |
|         |              | 4824(Av)        |                         |                |            |
|         | Horizontal   | 2390(Pk)        | 50.14                   | 74             | -23.86     |
|         |              | 2390(Av)        | 33.09                   | 54             | -20.91     |
|         |              | 2402(Av)        | 86.72                   | -              | *          |
|         |              | 2402(Pk)        | 80.88                   | -              | *          |
|         |              | 2412(Av)        | 85.55                   | -              | *          |
|         |              | 2412(Av)        | 77.19                   | -              | *          |
|         |              | 4804(Pk)        | 36.55                   | 74             | -37.45     |
|         |              | 4804(Av)        | 26.68                   | 54             | -27.32     |
|         |              | 4824(Pk)        | No Harmonics found      |                |            |
|         |              | 4824(Av)        |                         |                |            |

Note:

Pk: Peak Detector

Av: Average Detector

**All the radio modules operating in High channel**

| Channel | Polarization | Frequency (MHz) | Field strength (dBµV/m) | Limit (dBµV/m) | Margin(dB) |
|---------|--------------|-----------------|-------------------------|----------------|------------|
| High    | Vertical     | 2462(Pk)        | 86.24                   | -              | *          |
|         |              | 2462(Av)        | 78.99                   | -              | *          |
|         |              | 2480(Pk)        | 90.48                   | -              | *          |
|         |              | 2480(Av)        | 79.88                   | -              | *          |
|         |              | 2483.5(Pk)      | 41.62                   | 74             | -32.38     |
|         |              | 2483.5(Av)      | 25.22                   | 54             | -28.78     |
|         |              | 4924(Pk)        | No Harmonics found      |                |            |
|         |              | 4924(Av)        |                         |                |            |
|         |              | 4960(Pk)        | 43.3                    | 74             | -30.7      |
|         |              | 4960(Av)        | 31.77                   | 54             | -22.23     |
|         | Horizontal   | 2462(Pk)        | 92.28                   | -              |            |
|         |              | 2462(Av)        | 84.37                   | -              |            |
|         |              | 2480(Pk)        | 89.94                   | -              |            |
|         |              | 2480(Av)        | 79.05                   | -              |            |
|         |              | 2483.5(Pk)      | 47.25                   | 74             | -26.75     |
|         |              | 2483.5(Av)      | 29.67                   | 54             | -24.33     |
|         |              | 4924(Pk)        | No Harmonics found      |                |            |
|         |              | 4924(Av)        |                         |                |            |
|         |              | 4960(Pk)        | 41.35                   | 74             | -32.65     |
|         |              | 4960(Av)        | 29.56                   | 54             | -24.44     |

Note:

Pk: Peak Detector  
Av. Average Detector

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