

**Shenzhen Global Test Service Co.,Ltd.**

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

**RF Exposure evaluation****Report Reference No. .... : GTS20250603010-2-09****FCC ID. .... : 2AYD5-I25D02**

Compiled by

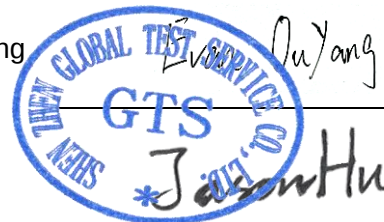
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Date of issue ..... : Aug.8, 2025

**Representative Laboratory Name : Shenzhen Global Test Service Co.,Ltd.**

..... :

Address .....

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

**Applicant's name..... : Imin Technology Pte Ltd**

Address ..... : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

**Test specification .....**

Standard..... : 47CFR §1.1310 Basis and purpose  
47CFR §2.1091 Radiofrequency radiation exposure evaluation: mobile devices

TRF Originator ..... : Shenzhen Global Test Service Co.,Ltd.

Master TRF ..... : Dated 2014-12

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**Test item description ..... : POS Device**

Trade Mark .....



Manufacturer ..... : Imin Technology Pte Ltd

Model/Type reference ..... : I25D02

Listed Models ..... : N/A

Hardware Version ..... : N/A

Software Version..... : N/A

Rating ..... : DC 24V/2.5A by Adapter

Result ..... : **PASS**

TEST REPORT

|                   |                     |               |
|-------------------|---------------------|---------------|
| Test Report No. : | GTS20250603010-2-09 | Aug.8, 2025   |
|                   |                     | Date of issue |

Equipment under Test : POS Device

Model /Type : I25D02

Listed model : N/A

**Applicant** : **Imin Technology Pte Ltd**

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

**Manufacturer** : **Imin Technology Pte Ltd**

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

|              |      |
|--------------|------|
| Test Result: | PASS |
|--------------|------|

The test report merely corresponds to the test sample.  
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1. SUMMARY

### 1.1 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

|   |     |               |     |
|---|-----|---------------|-----|
| ● | N/A | M/N:          | N/A |
|   |     | Manufacturer: | N/A |

### 1.2 Product Description

|                          |                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:            | POS Device                                                                                                                                                                                                                                                                                                                                            |
| Trade Mark:              |                                                                                                                                                                                                                                                                      |
| Model/Type reference:    | I25D02                                                                                                                                                                                                                                                                                                                                                |
| List Model:              | N/A                                                                                                                                                                                                                                                                                                                                                   |
| Model Declaration        | N/A                                                                                                                                                                                                                                                                                                                                                   |
| Power supply:            | DC 24V/2.5A by Adapter                                                                                                                                                                                                                                                                                                                                |
| Hardware Version         | N/A                                                                                                                                                                                                                                                                                                                                                   |
| Software Version         | N/A                                                                                                                                                                                                                                                                                                                                                   |
| Sample ID                | GTS20250603010-2-S001-1#<br>GTS20250603010-2-S001-2#( Version A )<br>GTS20250603010-2-S001-3#( Version B )<br>GTS20250603010-2-S001-4#( Version C )                                                                                                                                                                                                   |
| Bluetooth                |                                                                                                                                                                                                                                                                                                                                                       |
| Frequency Range          | 2402MHz ~ 2480MHz                                                                                                                                                                                                                                                                                                                                     |
| Channel Number           | 79 channels for Bluetooth (DSS)<br>40 channels for Bluetooth (DTS)                                                                                                                                                                                                                                                                                    |
| Channel Spacing          | 1MHz for Bluetooth (DSS)<br>2MHz for Bluetooth (DTS)                                                                                                                                                                                                                                                                                                  |
| Modulation Type          | GFSK, $\pi/4$ -DQPSK, 8DPSK for Bluetooth (DSS)<br>GFSK for Bluetooth (DTS)                                                                                                                                                                                                                                                                           |
| 2.4GWLAN                 |                                                                                                                                                                                                                                                                                                                                                       |
| WLAN Operation frequency | IEEE 802.11b:2412-2462MHz<br>IEEE 802.11g:2412-2462MHz<br>IEEE 802.11n HT20:2412-2462MHz<br>IEEE 802.11n HT40:2422-2452MHz<br>IEEE 802.11ax HE20:2412-2462MHz<br>IEEE 802.11ax HE40:2422-2452MHz                                                                                                                                                      |
| WLAN Modulation Type     | IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Channel number:          | 11 Channel for IEEE 802.11b/g/n/ax (HT20)<br>7 Channel for IEEE 802.11n/ax (HT40)                                                                                                                                                                                                                                                                     |
| Channel separation:      | 5MHz                                                                                                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI(5.2G/5.3G/5.7G/5.8G Band)                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| WLAN Operation frequency                                                                                                                                                  | 5180-5240MHz/ 5260MHz to 5320MHz/ 5500MHz to 5700MHz/ 5745MHz to 5825MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| WLAN Modulation Type                                                                                                                                                      | IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11acVHT20: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11ax HE20: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11acVHT40: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11ax HE40: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11acVHT80: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11ax HE80: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)                |
| Channel number:                                                                                                                                                           | 4 Channels for 20MHz bandwidth(5180-5240MHz)<br>4 Channels for 20MHz bandwidth(5260-5320MHz)<br>11 Channels for 20MHz bandwidth(5500-5700MHz)<br>5 channels for 20MHz bandwidth(5745-5825MHz)<br>2 channels for 40MHz bandwidth(5190~5230MHz)<br>2 channels for 40MHz bandwidth(5270~5310MHz)<br>5 Channels for 40MHz bandwidth(5510-5670MHz)<br>2 channels for 40MHz bandwidth(5755~5795MHz)<br>1 channels for 80MHz bandwidth(5210MHz)<br>1 channels for 80MHz bandwidth(5290MHz)<br>2 Channels for 80MHz bandwidth(5530-5610MHz)<br>1 channels for 80MHz bandwidth(5775MHz) |
| Antenna Description                                                                                                                                                       | Internal Antenna, 3.36dBi(Max.) for 2.4G Band and 5.11dBi(Max.) for 5G Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RFID(13.56MHz) (Optional)                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Frequency Range                                                                                                                                                           | 13.56MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Channel Number                                                                                                                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Modulation Type                                                                                                                                                           | ASK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Antenna Description                                                                                                                                                       | Internal Antenna, 0dBi (Max.), NFC has three optional antennas, antenna 1(Model:DS2-52), antenna 2 (Model:DS2-51) and antenna 3 (Model:DS2-55).                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remark:The I25D02 model has 3 versions;<br>Version A: One large display and one small display;<br>Version B: Double large display ;<br>Version C: Only one large display; |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 2. TEST ENVIRONMENT

### 2.1 Address of the test laboratory

**Shenzhen Global Test Service Co.,Ltd.**

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

### 2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCCDesignationNumberisCN1401.

FCC Registered Test Site Number is 684561.

### 2.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 15-35 ° C    |
|                       |              |
| Humidity:             | 30-60 %      |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

### 2.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Global Test Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

| Test Items                  | Measurement Uncertainty | Notes |
|-----------------------------|-------------------------|-------|
| Transmitter power conducted | 0.57 dB                 | (1)   |

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

### 3. METHOD OF MEASUREMENT

#### 3.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

#### 3.2 Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498 D01 General RF Exposure Guidance v06 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is  $\leq 1.0$ . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

#### 3.3 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                   | 614                          | 1.63                         | (100) *                             | 6                       |
| 3.0 – 30                                    | 1842/f                       | 4.89/f                       | (900/f <sup>2</sup> )*              | 6                       |
| 30 – 300                                    | 61.4                         | 0.163                        | 1.0                                 | 6                       |
| 300 – 1500                                  | /                            | /                            | f/300                               | 6                       |
| 1500 – 100,000                              | /                            | /                            | 5                                   | 6                       |

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                   | 614                          | 1.63                         | (100) *                             | 30                      |
| 3.0 – 30                                    | 824/f                        | 2.19/f                       | (180/f <sup>2</sup> )*              | 30                      |
| 30 – 300                                    | 27.5                         | 0.073                        | 0.2                                 | 30                      |
| 300 – 1500                                  | /                            | /                            | f/1500                              | 30                      |
| 1500 – 100,000                              | /                            | /                            | 1.0                                 | 30                      |

F=frequency in MHz

\*=Plane-wave equivalent power density

### 3.4 MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

As declared by the Applicant, the EUT transmits with the maximum source-based Duty Cycle of 100%-see the User manual, and the EUT is a wireless device used in a mobile application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum mobile separation distance,  $r = 20\text{cm}$ , as well as the gain of the used antenna is 3.36dBi & 5.11dBi for BT&WLAN, and the power drift from Turn-up Procedure provide by manufacturer as following states, the RF power density can be obtained.

### 3.5 Antenna Information

I25D02 can only use antennas certificated as follows provided by manufacturer;

| Internal Identification | Antenna Identification in Internal photos | Antenna type and antenna number | Operate frequency band         | Maximum antenna gain                                     |
|-------------------------|-------------------------------------------|---------------------------------|--------------------------------|----------------------------------------------------------|
| Antenna1                | BT&WLAN                                   | Internal Antenna                | 2.4 – 2.5 GHz<br>5.0 – 6.0 GHz | 3.36dBi(Max.) for 2.4G band<br>5.11dBi(Max.) for 5G band |
| Antenna2                | NFC                                       | Internal Antenna                | 13.0 – 14.0 MHz                | 0 dBi                                                    |

#### 4. Conducted Power Results

##### NFC

| Mode | Channel | Frequency (MHz) | Field strength of fundamental (dBuV/m) @3m |
|------|---------|-----------------|--------------------------------------------|
| ASK  | 1       | 13.23           | 71.00                                      |

##### Bluetooth

| Mode          | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|---------------|---------|-----------------|-----------------------------------|
| GFSK          | 0       | 2402            | 8.55                              |
|               | 39      | 2441            | 10.45                             |
|               | 78      | 2480            | 10.24                             |
| $\pi/4$ DQPSK | 0       | 2402            | 8.02                              |
|               | 39      | 2441            | 9.87                              |
|               | 78      | 2480            | 9.71                              |
| 8DPSK         | 0       | 2402            | 8.22                              |
|               | 39      | 2440            | 9.98                              |
|               | 78      | 2480            | 9.92                              |
| GFSK(BT LE)   | 0       | 2402            | 8.46                              |
|               | 19      | 2440            | 10.26                             |
|               | 39      | 2480            | 10.04                             |

##### 2.4GWLAN

| Mode           | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|----------------|---------|-----------------|-----------------------------------|
| 802.11b        | 01      | 2412            | 13.58                             |
|                | 06      | 2437            | 13.47                             |
|                | 11      | 2462            | 14.07                             |
| 802.11g        | 01      | 2412            | 17.22                             |
|                | 06      | 2437            | 17.68                             |
|                | 11      | 2462            | 17.70                             |
| 802.11n(HT20)  | 01      | 2412            | 14.87                             |
|                | 06      | 2437            | 16.63                             |
|                | 11      | 2462            | 16.52                             |
| 802.11n(HT40)  | 03      | 2422            | 14.26                             |
|                | 06      | 2437            | 15.10                             |
|                | 09      | 2452            | 14.98                             |
| 802.11ax(HE20) | 01      | 2412            | 16.40                             |
|                | 06      | 2437            | 17.20                             |
|                | 11      | 2462            | 16.96                             |
| 802.11ax(HE40) | 03      | 2422            | 15.72                             |
|                | 06      | 2437            | 17.19                             |
|                | 09      | 2452            | 16.94                             |

**5.2GWLAN**

| Mode       | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|------------|---------|-----------------|--------------------------------------|
| 802.11a    | 36      | 5180            | 11.62                                |
|            | 40      | 5200            | 11.71                                |
|            | 48      | 5240            | 11.78                                |
| 802.11n20  | 36      | 5180            | 11.94                                |
|            | 40      | 5200            | 12.60                                |
|            | 48      | 5240            | 11.59                                |
| 802.11n40  | 38      | 5190            | 11.80                                |
|            | 46      | 5230            | 12.17                                |
| 802.11ac20 | 36      | 5180            | 10.14                                |
|            | 40      | 5200            | 9.98                                 |
|            | 48      | 5240            | 8.67                                 |
| 802.11ac40 | 38      | 5190            | 9.95                                 |
|            | 46      | 5230            | 9.93                                 |
| 802.11ac80 | 42      | 5210            | 9.32                                 |
| 802.11ax20 | 36      | 5180            | 11.22                                |
|            | 40      | 5200            | 10.76                                |
|            | 48      | 5240            | 9.60                                 |
| 802.11ax40 | 38      | 5190            | 11.08                                |
|            | 46      | 5230            | 10.66                                |
| 802.11ax80 | 42      | 5210            | 10.41                                |

**5.3GWLAN**

| Mode       | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|------------|---------|-----------------|--------------------------------------|
| 802.11a    | 52      | 5260            | 9.91                                 |
|            | 56      | 5280            | 9.10                                 |
|            | 64      | 5320            | 7.85                                 |
| 802.11n20  | 52      | 5260            | 12.14                                |
|            | 56      | 5280            | 9.80                                 |
|            | 64      | 5320            | 8.85                                 |
| 802.11n40  | 54      | 5270            | 10.38                                |
|            | 58      | 5310            | 8.82                                 |
| 802.11ac20 | 52      | 5260            | 10.99                                |
|            | 56      | 5280            | 9.98                                 |
|            | 64      | 5320            | 8.70                                 |
| 802.11ac40 | 54      | 5270            | 11.41                                |
|            | 58      | 5310            | 8.78                                 |
| 802.11ac80 | 62      | 5290            | 9.99                                 |
| 802.11ax20 | 52      | 5260            | 8.99                                 |
|            | 56      | 5280            | 8.22                                 |
|            | 64      | 5320            | 8.89                                 |
| 802.11ax40 | 54      | 5270            | 10.20                                |
|            | 58      | 5310            | 9.17                                 |
| 802.11ax80 | 62      | 5290            | 9.86                                 |

**5.7G WLAN**

| Mode       | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|------------|---------|-----------------|--------------------------------------|
| 802.11a    | 100     | 5500            | 12.17                                |
|            | 120     | 5600            | 10.38                                |
|            | 140     | 5700            | 10.75                                |
| 802.11n20  | 100     | 5500            | 13.14                                |
|            | 120     | 5600            | 11.97                                |
|            | 140     | 5700            | 11.99                                |
| 802.11n40  | 102     | 5510            | 13.21                                |
|            | 118     | 5590            | 11.24                                |
|            | 134     | 5670            | 11.58                                |
| 802.11ac20 | 100     | 5500            | 13.53                                |
|            | 120     | 5600            | 12.32                                |
|            | 140     | 5700            | 12.05                                |
| 802.11ac40 | 102     | 5510            | 11.71                                |
|            | 118     | 5590            | 10.76                                |
|            | 134     | 5670            | 11.52                                |
| 802.11ac80 | 106     | 5530            | 13.25                                |
|            | 122     | 5610            | 10.14                                |
| 802.11ax20 | 100     | 5500            | 13.12                                |
|            | 120     | 5600            | 11.13                                |
|            | 140     | 5700            | 11.66                                |
| 802.11ax40 | 102     | 5510            | 11.73                                |
|            | 118     | 5590            | 10.27                                |
|            | 134     | 5670            | 11.81                                |
| 802.11ax80 | 106     | 5530            | 11.99                                |
|            | 122     | 5610            | 10.45                                |

**5.8G WLAN**

| Mode       | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|------------|---------|-----------------|--------------------------------------|
| 802.11a    | 149     | 5745            | 10.51                                |
|            | 157     | 5785            | 12.28                                |
|            | 165     | 5825            | 12.36                                |
| 802.11n20  | 149     | 5745            | 10.28                                |
|            | 157     | 5785            | 12.00                                |
|            | 165     | 5825            | 12.36                                |
| 802.11n40  | 151     | 5755            | 10.39                                |
|            | 159     | 5795            | 12.09                                |
| 802.11ac20 | 149     | 5745            | 10.41                                |
|            | 157     | 5785            | 11.71                                |
|            | 165     | 5825            | 12.24                                |
| 802.11ac40 | 151     | 5755            | 11.64                                |
|            | 159     | 5795            | 12.90                                |
| 802.11ac80 | 155     | 5775            | 11.46                                |
| 802.11ax20 | 149     | 5745            | 9.46                                 |
|            | 157     | 5785            | 11.14                                |
|            | 165     | 5825            | 11.51                                |
| 802.11ax40 | 151     | 5755            | 9.79                                 |
|            | 159     | 5795            | 10.31                                |
| 802.11ax80 | 155     | 5775            | 10.66                                |

## 5. Manufacturing Tolerance

| Bluetooth            |           |            |            |
|----------------------|-----------|------------|------------|
| GFSK (Peak)          |           |            |            |
| Channel              | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)         | 8.00      | 10.00      | 10.00      |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |
| $\pi/4$ DQPSK (Peak) |           |            |            |
| Channel              | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)         | 8.00      | 9.00       | 9.00       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |
| 8DPSK (Peak)         |           |            |            |
| Channel              | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)         | 8.00      | 9.00       | 9.00       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |
| GFSK BT LE (Peak)    |           |            |            |
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | 8.00      | 10.00      | 10.00      |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |

| 2.4G WLAN                 |            |            |            |
|---------------------------|------------|------------|------------|
| IEEE 802.11b (Peak)       |            |            |            |
| Channel                   | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)              | 13.00      | 13.00      | 14.00      |
| Tolerance $\pm$ (dB)      | 1.0        | 1.0        | 1.0        |
| IEEE 802.11g (Peak)       |            |            |            |
| Channel                   | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)              | 17.00      | 17.00      | 17.00      |
| Tolerance $\pm$ (dB)      | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT20 (Peak)  |            |            |            |
| Channel                   | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)              | 14.00      | 16.00      | 16.00      |
| Tolerance $\pm$ (dB)      | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT40 (Peak)  |            |            |            |
| Channel                   | Channel 03 | Channel 06 | Channel 09 |
| Target (dBm)              | 14.00      | 15.00      | 14.00      |
| Tolerance $\pm$ (dB)      | 1.0        | 1.0        | 1.0        |
| IEEE 802.11ax HE20 (Peak) |            |            |            |
| Channel                   | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)              | 16.00      | 17.00      | 16.00      |
| Tolerance $\pm$ (dB)      | 1.0        | 1.0        | 1.0        |
| IEEE 802.11ax HE40 (Peak) |            |            |            |
| Channel                   | Channel 03 | Channel 06 | Channel 09 |
| Target (dBm)              | 15.00      | 17.00      | 16.00      |
| Tolerance $\pm$ (dB)      | 1.0        | 1.0        | 1.0        |

**5.2GWLAN**

| IEEE 802.11a (Average)        |            |            |            |
|-------------------------------|------------|------------|------------|
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 11.00      | 11.00      | 11.00      |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT20 (Average)   |            |            |            |
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 11.00      | 12.00      | 11.00      |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n VHT40 (Average)  |            |            |            |
| Channel                       | Channel 38 | Channel 46 | /          |
| Target (dBm)                  | 11.00      | 12.00      | /          |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | /          |
| IEEE 802.11ac VHT20 (Average) |            |            |            |
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 10.00      | 9.00       | 8.00       |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | 1.0        |
| IEEE 802.11ac VHT40 (Average) |            |            |            |
| Channel                       | Channel 38 | Channel 46 | /          |
| Target (dBm)                  | 9.00       | 9.00       | /          |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | /          |
| IEEE 802.11ac VHT80 (Average) |            |            |            |
| Channel                       | Channel 42 | /          | /          |
| Target (dBm)                  | 9.00       | /          | /          |
| Tolerance $\pm$ (dB)          | 1.0        | /          | /          |
| IEEE 802.11ax HE20 (Average)  |            |            |            |
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 11.00      | 10.00      | 9.00       |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | 1.0        |
| IEEE 802.11ax HE40 (Average)  |            |            |            |
| Channel                       | Channel 38 | Channel 46 | /          |
| Target (dBm)                  | 11.00      | 10.00      | /          |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | /          |
| IEEE 802.11ax HE80 (Average)  |            |            |            |
| Channel                       | Channel 42 | /          | /          |
| Target (dBm)                  | 10.00      | /          | /          |
| Tolerance $\pm$ (dB)          | 1.0        | /          | /          |

**5.3GWLAN**

| IEEE 802.11a (Average)        |            |            |            |
|-------------------------------|------------|------------|------------|
| Channel                       | Channel 52 | Channel 56 | Channel 64 |
| Target (dBm)                  | 9.00       | 9.00       | 7.00       |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT20 (Average)   |            |            |            |
| Channel                       | Channel 52 | Channel 56 | Channel 64 |
| Target (dBm)                  | 12.00      | 9.00       | 8.00       |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT40 (Average)   |            |            |            |
| Channel                       | Channel 52 | Channel 56 | /          |
| Target (dBm)                  | 10.00      | 8.00       | /          |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | /          |
| IEEE 802.11ac VHT20 (Average) |            |            |            |
| Channel                       | Channel 52 | Channel 56 | Channel 64 |
| Target (dBm)                  | 10.00      | 9.00       | 8.00       |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | 1.0        |
| IEEE 802.11ac VHT40 (Average) |            |            |            |
| Channel                       | Channel 54 | Channel 58 | /          |
| Target (dBm)                  | 11.00      | 8.00       | /          |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | /          |
| IEEE 802.11ac VHT80 (Average) |            |            |            |
| Channel                       | Channel 62 | /          | /          |
| Target (dBm)                  | 9.00       | /          | /          |
| Tolerance $\pm$ (dB)          | 1.0        | /          | /          |
| IEEE 802.11ax HE20 (Average)  |            |            |            |
| Channel                       | Channel 52 | Channel 56 | Channel 64 |
| Target (dBm)                  | 8.00       | 8.00       | 8.00       |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | 1.0        |
| IEEE 802.11ax HE40 (Average)  |            |            |            |
| Channel                       | Channel 54 | Channel 58 | /          |
| Target (dBm)                  | 10.00      | 9.00       | /          |
| Tolerance $\pm$ (dB)          | 1.0        | 1.0        | /          |
| IEEE 802.11ax HE80 (Average)  |            |            |            |
| Channel                       | Channel 62 | /          | /          |
| Target (dBm)                  | 9.00       | /          | /          |
| Tolerance $\pm$ (dB)          | 1.0        | /          | /          |

**5.7GWLAN**

| IEEE 802.11a (Average)        |             |             |             |
|-------------------------------|-------------|-------------|-------------|
| Channel                       | Channel 100 | Channel 120 | Channel 140 |
| Target (dBm)                  | 12.00       | 10.00       | 10.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11n HT20 (Average)   |             |             |             |
| Channel                       | Channel 100 | Channel 120 | Channel 140 |
| Target (dBm)                  | 13.00       | 11.00       | 11.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11n HT40 (Average)   |             |             |             |
| Channel                       | Channel 102 | Channel 118 | Channel 134 |
| Target (dBm)                  | 13.00       | 11.00       | 11.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ac VHT20 (Average) |             |             |             |
| Channel                       | Channel 100 | Channel 120 | Channel 140 |
| Target (dBm)                  | 13.00       | 12.00       | 12.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ac VHT40 (Average) |             |             |             |
| Channel                       | Channel 102 | Channel 118 | Channel 134 |
| Target (dBm)                  | 11.00       | 10.00       | 11.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ac VHT80 (Average) |             |             |             |
| Channel                       | Channel 106 | Channel 122 | /           |
| Target (dBm)                  | 13.00       | 10.00       | /           |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | /           |
| IEEE 802.11ax HE20 (Average)  |             |             |             |
| Channel                       | Channel 100 | Channel 120 | Channel 140 |
| Target (dBm)                  | 13.00       | 11.00       | 11.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ax HE40 (Average)  |             |             |             |
| Channel                       | Channel 102 | Channel 118 | Channel 134 |
| Target (dBm)                  | 11.00       | 10.00       | 11.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ax HE80 (Average)  |             |             |             |
| Channel                       | Channel 106 | Channel 122 | /           |
| Target (dBm)                  | 11.00       | 10.00       | /           |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | /           |

**5.8GWLAN**

| IEEE 802.11a (Average)        |             |             |             |
|-------------------------------|-------------|-------------|-------------|
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 10.00       | 12.00       | 12.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11n HT20 (Average)   |             |             |             |
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 10.00       | 12.00       | 12.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11n HT40 (Average)   |             |             |             |
| Channel                       | Channel 151 | Channel 159 | /           |
| Target (dBm)                  | 10.00       | 12.00       | /           |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | /           |
| IEEE 802.11ac VHT20 (Average) |             |             |             |
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 10.00       | 11.00       | 12.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ac VHT40 (Average) |             |             |             |
| Channel                       | Channel 151 | Channel 159 | /           |
| Target (dBm)                  | 11.00       | 12.00       | /           |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | /           |
| IEEE 802.11ac VHT80 (Average) |             |             |             |
| Channel                       | Channel 155 | /           | /           |
| Target (dBm)                  | 11.00       | /           | /           |
| Tolerance $\pm$ (dB)          | 1.0         | /           | /           |
| IEEE 802.11ax HE20 (Average)  |             |             |             |
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 9.00        | 11.00       | 11.00       |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ax HE40 (Average)  |             |             |             |
| Channel                       | Channel 151 | Channel 159 | /           |
| Target (dBm)                  | 9.00        | 10.00       | /           |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | /           |
| IEEE 802.11ax HE80 (Average)  |             |             |             |
| Channel                       | Channel 155 | /           | /           |
| Target (dBm)                  | 10.00       | /           | /           |
| Tolerance $\pm$ (dB)          | 1.0         | /           | /           |

## 6. Measurement Results

### 6.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance,  $r = 20\text{cm}$ , as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

#### NFC

| Mode | Channel | Frequency (MHz) | Field strength of fundamental @ 3m |        | Field strength of fundamental @ 0.2m |        | Electric Field Strength (V/m) |
|------|---------|-----------------|------------------------------------|--------|--------------------------------------|--------|-------------------------------|
|      |         |                 | (dBuV/m)                           | V/m    | (dBuV/m)                             | V/m    |                               |
| ASK  | 1       | 13.56           | 71.00                              | 0.0035 | 118.04                               | 0.7980 | 60.77                         |

#### BT

| Modulation Type | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW      |                    |                       |                           |                                  |
| GFSK            | 11.00        | 12.5893 | 3.36               | 2.1677                | 0.0054                    | 1.0000                           |
| $\pi/4$ DQPSK   | 10.00        | 10.0000 | 3.36               | 2.1677                | 0.0043                    | 1.0000                           |
| 8DPSK           | 10.00        | 10.0000 | 3.36               | 2.1677                | 0.0043                    | 1.0000                           |
| GFSK(BT LE)     | 11.00        | 12.5893 | 3.36               | 2.1677                | 0.0054                    | 1.0000                           |

#### 2.4GWLAN

| Modulation Type | Output power |          | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|----------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW       |                    |                       |                           |                                  |
| 802.11b         | 15.00        | 100.0000 | 3.36               | 2.1677                | 0.0431                    | 1.0000                           |
| 802.11g         | 18.00        | 63.0957  | 3.36               | 2.1677                | 0.0272                    | 1.0000                           |
| 802.11n(HT20)   | 17.00        | 50.1187  | 3.36               | 2.1677                | 0.0216                    | 1.0000                           |
| 802.11n(HT40)   | 16.00        | 39.8107  | 3.36               | 2.1677                | 0.0172                    | 1.0000                           |
| 802.11ax(HE20)  | 18.00        | 63.0957  | 3.36               | 2.1677                | 0.0272                    | 1.0000                           |
| 802.11ax(HE40)  | 18.00        | 63.0957  | 3.36               | 2.1677                | 0.0272                    | 1.0000                           |

#### 5.2GWLAN

| Modulation Type | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW      |                    |                       |                           |                                  |
| 802.11a         | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                           |
| 802.11n20       | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                           |
| 802.11n40       | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                           |
| 802.11ac20      | 11.00        | 12.5893 | 5.11               | 3.2434                | 0.0081                    | 1.0000                           |
| 802.11ac40      | 10.00        | 10.0000 | 5.11               | 3.2434                | 0.0065                    | 1.0000                           |
| 802.11ac80      | 10.00        | 10.0000 | 5.11               | 3.2434                | 0.0065                    | 1.0000                           |
| 802.11ax20      | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                           |
| 802.11ax40      | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                           |
| 802.11ax80      | 11.00        | 12.5893 | 5.11               | 3.2434                | 0.0081                    | 1.0000                           |

**5.3GWLAN**

| Modulation Type | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MP20 Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|---------|--------------------|-----------------------|---------------------------|-----------------------------------|
|                 | dBm          | mW      |                    |                       |                           |                                   |
| 802.11a         | 10.00        | 10.0000 | 5.11               | 3.2434                | 0.0065                    | 1.0000                            |
| 802.11n20       | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                            |
| 802.11n40       | 11.00        | 12.5893 | 5.11               | 3.2434                | 0.0081                    | 1.0000                            |
| 802.11ac20      | 11.00        | 12.5893 | 5.11               | 3.2434                | 0.0081                    | 1.0000                            |
| 802.11ac40      | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                            |
| 802.11ac80      | 10.00        | 10.0000 | 5.11               | 3.2434                | 0.0065                    | 1.0000                            |
| 802.11ax20      | 9.00         | 7.9433  | 5.11               | 3.2434                | 0.0051                    | 1.0000                            |
| 802.11ax40      | 11.00        | 12.5893 | 5.11               | 3.2434                | 0.0081                    | 1.0000                            |
| 802.11ax80      | 10.00        | 10.0000 | 5.11               | 3.2434                | 0.0065                    | 1.0000                            |

**5.7GWLAN**

| Modulation Type | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MP20 Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|---------|--------------------|-----------------------|---------------------------|-----------------------------------|
|                 | dBm          | mW      |                    |                       |                           |                                   |
| 802.11a         | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                            |
| 802.11n20       | 14.00        | 25.1189 | 5.11               | 3.2434                | 0.0162                    | 1.0000                            |
| 802.11n40       | 14.00        | 25.1189 | 5.11               | 3.2434                | 0.0162                    | 1.0000                            |
| 802.11ac20      | 14.00        | 25.1189 | 5.11               | 3.2434                | 0.0162                    | 1.0000                            |
| 802.11ac40      | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                            |
| 802.11ac80      | 14.00        | 25.1189 | 5.11               | 3.2434                | 0.0162                    | 1.0000                            |
| 802.11ax20      | 14.00        | 25.1189 | 5.11               | 3.2434                | 0.0162                    | 1.0000                            |
| 802.11ax40      | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                            |
| 802.11ax80      | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                            |

**5.8GWLAN**

| Modulation Type | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW      |                    |                       |                           |                                  |
| 802.11a         | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                           |
| 802.11n20       | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                           |
| 802.11n40       | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                           |
| 802.11ac20      | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                           |
| 802.11ac40      | 13.00        | 19.9526 | 5.11               | 3.2434                | 0.0129                    | 1.0000                           |
| 802.11ac80      | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                           |
| 802.11ax20      | 12.00        | 15.8489 | 5.11               | 3.2434                | 0.0102                    | 1.0000                           |
| 802.11ax40      | 11.00        | 12.5893 | 5.11               | 3.2434                | 0.0081                    | 1.0000                           |
| 802.11ax80      | 11.00        | 12.5893 | 5.11               | 3.2434                | 0.0081                    | 1.0000                           |

Remark:

1. Output power including tune-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

## 6.2 Simultaneous Transmission MPE

WLAN and BT share same modular and antenna, WLAN and BT cannot support simultaneously transmission.

WLAN/BT and NFC share difference modular and antenna, WLAN/BT and NFC can support simultaneitytransmission.

According to KDB447498 D01 General RF Exposure Guidance v06 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

$\sum$  of MPE ratios  $\leq 1.0$

### 6.2.1 Summary simultaneous transmission results

Maximum Simultaneous transmission MPE Ratios forNFC,2.4GWLAN

| Maximum MPE ratio NFC | Maximum MPE ratio 2.4GWLAN | $\sum$ MPE ratios | Limit | Results |
|-----------------------|----------------------------|-------------------|-------|---------|
| 0.0131                | 0.0431                     | 0.0562            | 1.0   | PASS    |

## 7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB447498 D01 General RF Exposure Guidance v06, No SAR is required.

.....End of Report.....