



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. : **GTS20231018011-1-90**

FCC ID. : **2AYD5-I23I01**

Compiled by

(position+printed name+signature): File administrators Peter Xiao

Supervised by

(position+printed name+signature): Test Engineer Evan Ouyang

Approved by

(position+printed name+signature) .: Manager Jason Hu



Date of issue : Jan. 29, 2024

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 : I23I01

Listed Models : I23I02, I23I03, I23I01-01, I23I01-02, I23I01-03

Hardware Version : N/A

Software Version..... : N/A

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

Result : **PASS**

TEST REPORT

Test Report No. : GTS20231018011-1-90	Jan. 29, 2024
	Date of issue

Equipment under Test : POS Device

Model /Type : I23I01

Listed model : I23I02, I23I03, I23I01-01, I23I01-02, I23I01-03

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
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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

Manufacturer	Description	Model	Serial Number	Certificate
Jiangsu Chenyang Electron Co.,Ltd.	Adapter	CYSE65-240250	--	SDOC
Shenzhen SOY Technology Co.,Ltd.	Adapter	SOY-2400250-332-A	--	SDOC
SHENZHEN HONOR ELECTRONIC CO.,LTD.	Adapter	ADS-65HI-19A-1 24060F	--	SDOC
LENOVO	PC	DESKYOP-EUIVCNR	--	SDOC
LENOVO	Keyboard	T460S	--	SDOC
LENOVO	Mouse	Howard	--	SDOC
SONY	Earphone	MDR-XB550AP	--	SDOC
aigo	USB flash disk	U330	--	SDOC
N/A	TF Card	N/A	--	SDOC
N/A	Electronic Scale	N/A	--	SDOC
N/A	Cashbox	N/A	--	SDOC

Note: The PC, Keyboard, Mouse, Earphone, USB flash disk, TF Card, Electronic Scale and Cashbox is only used for auxiliary testing.

1.2 Product Description

Product Name:	POS Device
Trade Mark:	
Model/Type reference:	I23I01
List Model:	I23I02, I23I03, I23I01-01, I23I01-02, I23I01-03
Model Declaration	<p>PCB board, structure and internal of these model(s) are the same, Only the model name different, So no additional models were tested.</p> <p>All modes are available in three versions, Different sizes of display and interface board are used. The transmitter part of the variants are identical and the Different sizes of display and interface board have no influence on the RF characteristics of the device which is proofed by performing EMC tests on the variants.</p>
Power supply:	DC 24V/2.5A by adapter
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20231018011-1-S0001-5# & GTS20231018011-1-S0001-6#
Bluetooth	
Frequency Range	2402MHz ~ 2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
2.4GWLAN	
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11ax HE20:2412-2462MHz
WLAN Modulation Type	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM,256QAM,64QAM,16QAM, QPSK,BPSK)
Channel number:	11 Channel for IEEE 802.11b/g/n/ax (HT20)
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) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE80: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM,

	QPSK, BPSK)
Channel number:	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz) 1 channels for 80MHz bandwidth(5775MHz)
Antenna Description	Three Internal antenna respectively. WLAN support 2*2MIMO technology. ANT0 used for WIFI TX/RX, 2.00 dBi(Max.) for 2.4G Band and 2.00dBi(Max.) for 5G Band ANT1 used for WIFI TX/RX, 2.00 dBi(Max.) for 2.4G Band and 2.00dBi (Max.) for 5G Band ANT2 used for BT TX/RX, 2.00 dBi(Max.) for 2.4G Band
Remark:The EUT has 3 versions; Version A: 27 "display Version B: 21 "display Version C: 16 "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.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

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 ≤ 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 ²)	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 ²)*	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 ²)	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 ²)*	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

$$S = \frac{PG}{4\pi R^2}$$

- 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 soure-baed 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 =20cm, as well as the gain of the used antenna is 2.00dBi 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

I23D01 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
/	BT ANT2	Internal antenna	2.4 – 2.5 GHz	2.00dBi(Max.) for 2.4G band
Antenna 0	WLAN ANT0	Internal antenna	2.4 – 2.5 GHz 5.0 – 6.0 GHz	2.00dBi(Max.) for 2.4G band 2.00dBi(Max.) for 5G band
Antenna 1	WLAN ANT1	Internal antenna	2.4 – 2.5 GHz 5.0 – 6.0 GHz	2.00dBi(Max.) for 2.4G band 2.00dBi(Max.) for 5G band

4. Conducted Power Results

Bluetooth

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	10.90
	39	2441	11.54
	78	2480	11.59
$\pi/4$ DQPSK	0	2402	10.77
	39	2441	11.60
	78	2480	11.42
8DPSK	0	2402	10.89
	39	2440	11.56
	78	2480	11.45
GFSK(BT LE)	0	2402	10.75
	19	2440	11.36
	39	2480	11.35

Antenna 0:

2.4GWLAN

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
802.11b	01	2412	18.46
	06	2437	19.13
	11	2462	19.20
802.11g	01	2412	21.16
	06	2437	22.02
	11	2462	21.83
802.11n(HT20)	01	2412	21.28
	06	2437	22.33
	11	2462	19.84
802.11ax(HE20)	01	2412	21.37
	06	2437	21.41
	11	2462	22.21

5.2GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	12.72
	40	5200	13.30
	48	5240	14.07
802.11n20	36	5180	12.79
	40	5200	13.45
	48	5240	14.27
802.11n40	38	5190	10.42
	46	5230	11.21
802.11ac20	36	5180	11.42
	40	5200	11.83
	48	5240	12.76
802.11ac40	38	5190	10.37
	46	5230	11.15
802.11ac80	42	5210	9.01
802.11ax20	36	5180	11.52
	40	5200	11.95
	48	5240	12.99
802.11ax40	38	5190	10.49
	46	5230	11.67
802.11ax80	42	5210	10.05

5.3GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	52	5260	13.11
	56	5280	12.70
	64	5320	13.80
802.11n20	52	5260	13.09
	56	5280	12.58
	64	5320	13.91
802.11n40	54	5270	8.05
	58	5310	9.07
802.11ac20	52	5260	11.72
	56	5280	10.25
	64	5320	11.46
802.11ac40	54	5270	8.12
	58	5310	9.03
802.11ac80	62	5290	6.88
802.11ax20	52	5260	10.94
	56	5280	10.38
	64	5320	11.69
802.11ax40	54	5270	10.33
	58	5310	11.40
802.11ax80	62	5290	10.29

5.7GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	100	5500	10.04
	120	5600	7.97
	140	5700	7.75
802.11n20	100	5500	12.03
	120	5600	10.10
	140	5700	10.54
802.11n40	102	5510	8.91
	118	5590	7.87
	134	5670	7.39
802.11ac20	100	5500	10.73
	120	5600	8.76
	140	5700	8.14
802.11ac40	102	5510	8.92
	118	5590	7.71
	134	5670	7.49
802.11ac80	106	5530	7.44
	122	5610	6.36
802.11ax20	100	5500	10.49
	120	5600	8.91
	140	5700	8.38
802.11ax40	102	5510	8.67
	118	5590	8.93
	134	5670	8.77
802.11ax80	106	5530	7.36
	122	5610	8.17

5.8GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	12.00
	157	5785	12.59
	165	5825	12.84
802.11n20	149	5745	11.86
	157	5785	11.42
	165	5825	12.24
802.11n40	151	5755	9.35
	159	5795	9.96
802.11ac20	149	5745	10.70
	157	5785	11.56
	165	5825	11.56
802.11ac40	151	5755	9.04
	159	5795	9.63
802.11ac80	155	5775	6.91
802.11ax20	149	5745	8.92
	157	5785	10.07
	165	5825	10.06
802.11ax40	151	5755	8.90
	159	5795	9.86
802.11ax80	155	5775	10.54

Antenna 1:

2.4GWLAN

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
802.11b	01	2412	19.04
	06	2437	19.39
	11	2462	19.35
802.11g	01	2412	21.50
	06	2437	21.86
	11	2462	22.27
802.11n(HT20)	01	2412	21.15
	06	2437	22.08
	11	2462	20.00
802.11ax(HE20)	01	2412	21.70
	06	2437	22.08
	11	2462	22.27

5.2GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	12.44
	40	5200	12.99
	48	5240	12.52
802.11n20	36	5180	11.54
	40	5200	12.01
	48	5240	11.56
802.11n40	38	5190	9.82
	46	5230	9.91
802.11ac20	36	5180	11.04
	40	5200	11.72
	48	5240	10.83
802.11ac40	38	5190	10.61
	46	5230	9.84
802.11ac80	42	5210	6.79
802.11ax20	36	5180	10.22
	40	5200	10.72
	48	5240	10.05
802.11ax40	38	5190	10.67
	46	5230	10.03
802.11ax80	42	5210	10.29

5.3GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	52	5260	12.63
	56	5280	12.10
	64	5320	12.54
802.11n20	52	5260	11.71
	56	5280	11.08
	64	5320	11.37
802.11n40	54	5270	9.74
	58	5310	9.43
802.11ac20	52	5260	11.26
	56	5280	10.23
	64	5320	10.58
802.11ac40	54	5270	9.79
	58	5310	9.47
802.11ac80	62	5290	6.58
802.11ax20	52	5260	10.00
	56	5280	9.43
	64	5320	9.66
802.11ax40	54	5270	10.04
	58	5310	9.66
802.11ax80	62	5290	9.83

5.7GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	100	5500	11.96
	120	5600	10.37
	140	5700	10.34
802.11n20	100	5500	12.31
	120	5600	10.78
	140	5700	10.12
802.11n40	102	5510	9.26
	118	5590	8.03
	134	5670	8.54
802.11ac20	100	5500	10.68
	120	5600	8.93
	140	5700	8.42
802.11ac40	102	5510	9.15
	118	5590	8.14
	134	5670	8.42
802.11ac80	106	5530	7.02
	122	5610	5.95
802.11ax20	100	5500	9.91
	120	5600	8.59
	140	5700	7.79
802.11ax40	102	5510	9.57
	118	5590	8.48
	134	5670	8.81
802.11ax80	106	5530	7.71
	122	5610	8.63

5.8G WLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	10.25
	157	5785	10.86
	165	5825	11.85
802.11n20	149	5745	10.02
	157	5785	10.93
	165	5825	11.84
802.11n40	151	5755	7.48
	159	5795	8.56
802.11ac20	149	5745	8.46
	157	5785	9.34
	165	5825	10.08
802.11ac40	151	5755	7.86
	159	5795	8.41
802.11ac80	155	5775	6.31
802.11ax20	149	5745	7.88
	157	5785	8.24
	165	5825	9.49
802.11ax40	151	5755	7.89
	159	5795	8.56
802.11ax80	155	5775	9.82

5. Manufacturing Tolerance

Bluetooth			
GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	10.00	11.00	11.00
Tolerance \pm (dB)	1.0	1.0	1.0
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	10.00	11.00	11.00
Tolerance \pm (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	10.00	11.00	11.00
Tolerance \pm (dB)	1.0	1.0	1.0
GFSK BT LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	10.00	11.00	11.00
Tolerance \pm (dB)	1.0	1.0	1.0

Antenna 0:

2.4G WLAN			
IEEE 802.11b (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	18.00	19.00	19.00
Tolerance \pm (dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	21.00	22.00	21.00
Tolerance \pm (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	21.00	22.00	19.00
Tolerance \pm (dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	21.00	21.00	22.00
Tolerance \pm (dB)	1.0	1.0	1.0

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.00	13.00	14.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.00	13.00	14.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	10.00	11.00	
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.00	11.00	12.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	10.00	11.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	9.00		
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.00	11.00	12.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	10.00	11.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	10.00		
Tolerance ±(dB)	1.0	/	/

5.3GWLAN

IEEE 802.11a (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	13.00	12.00	13.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	13.00	12.00	13.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	8.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	11.00	10.00	11.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	8.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 62	/	/
Target (dBm)	6.00	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	10.00	10.00	11.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	10.00	11.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 62	/	/
Target (dBm)	10.00	/	/
Tolerance ±(dB)	1.0	/	/

5.7GWLAN

IEEE 802.11a (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	10.00	7.00	7.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	12.00	10.00	10.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	8.00	7.00	7.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	10.00	8.00	8.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	8.00	7.00	7.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 106	Channel 122	/
Target (dBm)	7.00	6.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	10.00	8.00	8.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	8.00	8.00	8.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE80 (Average)			
Channel	Channel 106	Channel 122	/
Target (dBm)	7.00	8.00	/
Tolerance ±(dB)	1.0	1.0	/

5.8G WLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.00	12.00	12.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.00	11.00	12.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	9.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	10.00	11.00	11.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	9.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	6.00	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	8.00	10.00	10.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	8.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	10.00	/	/
Tolerance ±(dB)	1.0	/	/

Antenna 1:

2.4G WLAN

IEEE 802.11b (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	19.00	19.00	19.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	21.00	21.00	22.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	21.00	22.00	20.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	21.00	22.00	22.00
Tolerance ±(dB)	1.0	1.0	1.0

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.00	12.00	12.00
Tolerance ±(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 ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	9.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.00	11.00	10.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	10.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	6.00	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	10.00	10.00	10.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	10.00	10.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	10.00	/	/
Tolerance ±(dB)	1.0	/	/

5.3GWLAN

IEEE 802.11a (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	12.00	12.00	12.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	11.00	11.00	11.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	9.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	11.00	10.00	10.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	9.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 62	/	/
Target (dBm)	6.00	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	10.00	9.00	9.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	10.00	9.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 62	/	/
Target (dBm)	9.00	/	/
Tolerance ±(dB)	1.0	/	/

5.7GWLAN

IEEE 802.11a (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	11.00	10.00	10.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	12.00	10.00	10.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	9.00	8.00	8.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	10.00	8.00	8.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	9.00	8.00	8.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 106	Channel 122	/
Target (dBm)	7.00	5.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	9.00	8.00	7.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	9.00	8.00	8.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE80 (Average)			
Channel	Channel 106	Channel 122	/
Target (dBm)	7.00	8.00	/
Tolerance ±(dB)	1.0	1.0	/

5.8G WLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	10.00	10.00	11.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	10.00	10.00	11.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	7.00	8.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	8.00	9.00	10.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	7.00	8.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	6.00	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	7.00	8.00	9.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	7.00	8.00	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	9.00	/	/
Tolerance ±(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.

BT

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
GFSK	12.00	15.8489	2.00	1.5849	0.0050	1.0000
$\pi/4$ DQPSK	12.00	15.8489	2.00	1.5849	0.0050	1.0000
8DPSK	12.00	15.8489	2.00	1.5849	0.0050	1.0000
GFSK(BT LE)	12.00	15.8489	2.00	1.5849	0.0050	1.0000

Antenna 0:

2.4GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
802.11b	20.00	100.0000	2.00	1.5849	0.0315	1.0000
802.11g	23.00	199.5262	2.00	1.5849	0.0629	1.0000
802.11n(HT20)	23.00	199.5262	2.00	1.5849	0.0629	1.0000
802.11ax(HE20)	23.00	199.5262	2.00	1.5849	0.0629	1.0000

5.2GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11a	15.00	31.6228	2.00	1.5849	0.0100	1.0000
802.11n20	15.00	31.6228	2.00	1.5849	0.0100	1.0000
802.11n40	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ac20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11ac40	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ac80	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ax20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11ax40	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ax80	11.00	12.5893	2.00	1.5849	0.0040	1.0000

5.3GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	14.00	25.1189	2.00	1.5849	0.0079	1.0000
802.11n20	14.00	25.1189	2.00	1.5849	0.0079	1.0000
802.11n40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac20	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ac40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac80	7.00	5.0119	2.00	1.5849	0.0016	1.0000
802.11ax20	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ax40	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ax80	11.00	12.5893	2.00	1.5849	0.0040	1.0000

5.7G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11n20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n40	9.00	7.9433	2.00	1.5849	0.0025	1.0000
802.11ac20	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ac40	9.00	7.9433	2.00	1.5849	0.0025	1.0000
802.11ac80	8.00	6.3096	2.00	1.5849	0.0020	1.0000
802.11ax20	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ax40	9.00	7.9433	2.00	1.5849	0.0025	1.0000
802.11ax80	9.00	7.9433	2.00	1.5849	0.0025	1.0000

5.8G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11a	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac20	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ac40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac80	7.00	5.0119	2.00	1.5849	0.0016	1.0000
802.11ax20	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ax40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ax80	11.00	12.5893	2.00	1.5849	0.0040	1.0000

Antenna 1:

2.4G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11b	20.00	100.0000	2.00	1.5849	0.0315	1.0000
802.11g	23.00	199.5262	2.00	1.5849	0.0629	1.0000
802.11n(HT20)	23.00	199.5262	2.00	1.5849	0.0629	1.0000
802.11ax(HE20)	23.00	199.5262	2.00	1.5849	0.0629	1.0000

5.2G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11a	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac20	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ac40	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ac80	7.00	5.0119	2.00	1.5849	0.0016	1.0000
802.11ax20	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ax40	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ax80	11.00	12.5893	2.00	1.5849	0.0040	1.0000

5.3G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n20	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11n40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac20	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11ac40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac80	7.00	5.0119	2.00	1.5849	0.0016	1.0000
802.11ax20	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ax40	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ax80	10.00	10.0000	2.00	1.5849	0.0032	1.0000

5.7G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11n20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac20	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ac40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac80	8.00	6.3096	2.00	1.5849	0.0020	1.0000
802.11ax20	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ax40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ax80	9.00	7.9433	2.00	1.5849	0.0025	1.0000

5.8GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11a	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11n20	12.00	15.8489	2.00	1.5849	0.0050	1.0000
802.11n40	9.00	7.9433	2.00	1.5849	0.0025	1.0000
802.11ac20	11.00	12.5893	2.00	1.5849	0.0040	1.0000
802.11ac40	9.00	7.9433	2.00	1.5849	0.0025	1.0000
802.11ac80	7.00	5.0119	2.00	1.5849	0.0016	1.0000
802.11ax20	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ax40	9.00	7.9433	2.00	1.5849	0.0025	1.0000
802.11ax80	10.00	10.0000	2.00	1.5849	0.0032	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

The sample support one Bluetooth & WLAN modular and one Bluetooth antenna, and two WLAN antennas, WLAN support MIMO, Need consider simultaneous transmission ;

The sample supports 2T2R MIMO technology for WLAN.

According to KDB447498 D01 General RF Exposure Guidance v06 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;
 Σ of MPE ratios ≤ 1.0

8.2.1 Summary simultaneous transmission information

Modulation Type	Work Frequency Band	Transmit Antenna		Antenna 0, Antenna 1 Synchronization transmits
		Antenna 0	Antenna 1	
802.11b	2.4GHz	Yes	Yes	No
802.11g	2.4GHz	Yes	Yes	No
802.11n(HT20)	2.4GHz	Yes	Yes	Yes
802.11x(HE20)	2.4GHz	Yes	Yes	Yes

Modulation Type	Work Frequency Band	Transmit Antenna		Antenna 0, Antenna 1 Synchronization transmits
		Antenna 0	Antenna 1	
802.11a	5GHz	Yes	Yes	No
802.11n20	5GHz	Yes	Yes	Yes
802.11n40	5GHz	Yes	Yes	Yes
802.11ac20	5GHz	Yes	Yes	Yes
802.11ac40	5GHz	Yes	Yes	Yes
802.11ac80	5GHz	Yes	Yes	Yes
802.11ax20	5GHz	Yes	Yes	Yes
802.11ax40	5GHz	Yes	Yes	Yes
802.11ax80	5GHz	Yes	Yes	Yes

Modulation Type	Work Frequency Band	Transmit Antenna			Antenna 0, Antenna 1, Antenna 2 Synchronization transmits
		Antenna 0	Antenna 1	Antenna 2	
BT	2.4GHz	Yes	No	No	Yes
WLAN	2.4GHz	No	Yes	Yes	Yes
WLAN	5GHz	No	Yes	Yes	Yes
		Antenna 0	Antenna 1	Antenna 2	2.4GHzWLAN + 5GHzWLAN Synchronization transmits
WLAN	2.4GHz	No	Yes	Yes	No
WLAN	5GHz	No	Yes	Yes	No

8.2.2 Summary simultaneous transmission results

Maximum Simultaneous transmission MPE Ratios for BT, 2.4GWLAN(ANT 0), 2.4GWLAN(ANT 1)

Maximum MPE ratio BT (ANT 2)	Maximum MPE ratio 2.4GWLAN (ANT 0)	Maximum MPE ratio 2.4GWLAN (ANT 1)	Σ MPE ratios	Limit	Results
0.0050	0.0629	0.0629	0.1308	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.....