


FCC RF EXPOSURE EVALUATION REPORT

Product Name: Arm-mounted Tablet

Trade Mark: Oneview or 

Model No.: OV2219

Report Number: 201110043RFC-7

Test Standards: FCC 47 CFR Part 1 Subpart I

FCC ID: 2AX57OV2219

Test Result: PASS

Date of Issue: February 3, 2021

Prepared for:

Oneview Healthcare Inc

**Block 2, Blackrock Business Park, Blackrock, Co. Dublin, A94 H2X4
Ireland**

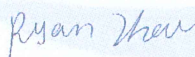
Prepared by:

Shenzhen UnionTrust Quality and Technology Co., Ltd.

**Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and
technology park, Longhua district, Shenzhen, China**

TEL: +86-755-2823 0888

FAX: +86-755-2823 0886

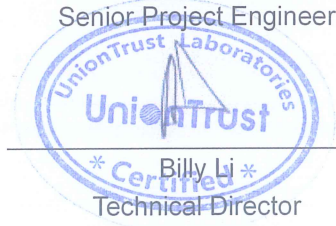
Prepared by: 

Ryan Zhou
Senior Project Engineer

Reviewed by: 

Kevin Liang
Assistant Manager

Approved by: _____



Billy Li
Technical Director

Date: February 3, 2021

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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UTTR-RF-FCCPART1-V1.1

Version

Version No.	Date	Description
V1.0	February 3, 2021	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Oneview Healthcare Inc
Address of Applicant:	Block 2, Blackrock Business Park, Blackrock, Co. Dublin, A94 H2X4 Ireland
Manufacturer:	Oneview Healthcare Inc
Address of Manufacturer:	Block 2, Blackrock Business Park, Blackrock, Co. Dublin, A94 H2X4 Ireland

1.2 EUT INFORMATION

Product Name:	Arm-mounted Tablet		
Model No.:	OV2219		
Trade Mark:	Oneview or 		
DUT Stage:	Production Unit		
EUT Supports Function:	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth V4.2	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac
5 725 MHz to 5 850 MHz		IEEE 802.11a/n/ac	
RFID	125 kHz, 13.56 MHz		
Sample Received Date:	November 11, 2020		
Sample Tested Date:	November 17, 2020 to December 16, 2020		

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

For BT_LE	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	0.5 dBi
Maximum Peak Power:	6.89 dBm

For BT_EDR	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	0.5 dBi
Maximum Peak Power:	6.25dBm

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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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For 2.4 GHz ISM Band of Wi-Fi	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7
Number of Channels:	IEEE 802.11b: 11 IEEE 802.11g: 11 IEEE 802.11n-HT20: 11
Channel Separation:	5 MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	0.5 dBi
Maximum Peak Power:	IEEE 802.11b: 20.24 dBm IEEE 802.11g: 23.87 dBm IEEE 802.11n-HT20: 24.75 dBm

For 5 GHz U-NII Bands of Wi-Fi	
Frequency Bands:	5150 MHz to 5250 MHz (U-NII-1)
	5250 MHz to 5350 MHz (U-NII-2A)
	5470 MHz to 5725 MHz (U-NII-2C)
	5 725 MHz to 5 850 MHz (U-NII-3)
Frequency Ranges:	5180 MHz to 5240 MHz
	5260 MHz to 5320 MHz
	5500 MHz to 5700 MHz
	5 745 MHz to 5 825 MHz
Support Standards:	IEEE 802.11a/n/ac
TPC Function:	Not Support
DFS Operational mode:	Slave without radar Interference detection function
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20: 20 MHz
	IEEE 802.11n-HT40/ac-VHT40: 40 MHz
	IEEE 802.11ac-VHT80: 80 MHz
Data Rate:	IEEE 802.11a: Up to 54 Mbps
	IEEE 802.11n-HT20: Up to MCS15
	IEEE 802.11n-HT40: Up to MCS15
	IEEE 802.11ac-VHT20: Up to MCS8
	IEEE 802.11ac-VHT40: Up to MCS9
Number of Channels:	5150 MHz to 5250 MHz:
	4 for IEEE 802.11a/n-HT20/ac-VHT20
	2 for IEEE 802.11n-HT40/ac-VHT40
	1 for IEEE 802.11acVHT80

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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	5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11acVHT80				
	5470 MHz to 5725 MHz: 11 for IEEE 802.11a/n-HT20/ac-VHT20 5 for IEEE 802.11n-HT40/ac-VHT40 2 for IEEE 802.11ac-VHT80				
	5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11ac-VHT80				
Antenna Type:	PIFA Antenna				
Antenna Gain:	5150 MHz to 5250 MHz	0.8 dBi			
	5250 MHz to 5350 MHz	0.6 dBi			
	5470 MHz to 5725 MHz	0.8 dBi			
	5725 MHz to 5850 MHz	0.7 dBi			
Maximum conducted output power (dBm):		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	15.73	15.53	15.67	13.18
	IEEE 802.11n-HT20:	15.36	15.31	15.29	12.61
	IEEE 802.11n-HT40:	15.61	15.18	15.31	12.50
	IEEE 802.11ac-VHT20:	15.40	15.29	15.25	12.56
	IEEE 802.11ac-VHT40:	15.56	15.20	15.25	12.40
	IEEE 802.11ac-VHT80:	11.90	11.80	14.72	12.25

1.4 OTHER INFORMATION

Test channels for BT_LE				
Type of Modulation	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 19	Channel 39
		2402 MHz	2440 MHz	2480 MHz

Test channels for BT_LE				
Type of Modulation	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 19	Channel 39
		2402 MHz	2440 MHz	2480 MHz

Test channels for BT_EDR				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
GFSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz
π /4DQPSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz
8DPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

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Fax: +86-755-28230886

E-mail: info@uttlab.com

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(DH1, DH3, DH5)	2402 MHz	2441 MHz	2480 MHz
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Test channels for 2.4 GHz ISM Band of Wi-Fi				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11b	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n-HT20	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n-HT40	2422 MHz to 2452 MHz	Channel 3	Channel 6	Channel 9
		2422 MHz	2437 MHz	2452 MHz

Test channels for 5 GHz U-NII Bands of Wi-Fi				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5150 MHz to 5250 MHz	Channel 36	Channel 44	Channel 48
		5180 MHz	5220 MHz	5240 MHz
	5250 MHz to 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5470 MHz to 5725 MHz	Channel 100	Channel 116	Channel 140
		5500 MHz	5580 MHz	5700 MHz
5725 MHz to 5850 MHz	Channel 149	Channel 157	Channel 161	
	5745 MHz	5785 MHz	5805 MHz	
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5150 MHz to 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 MHz to 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 MHz to 5725 MHz	Channel 102	Channel 110	Channel 134
		5510 MHz	5550 MHz	5670 MHz
5725 MHz to 5850 MHz	Channel 151	--	Channel 159	
	5755 MHz	--	5795 MHz	
IEEE 802.11ac-HT80	5150 MHz to 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 MHz to 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 MHz to 5725 MHz	Channel 106	--	Channel 122
		5530 MHz	--	5610 MHz
5725 MHz to 5850 MHz	--	Channel 155	--	
	--	5775 MHz	--	

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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Fax: +86-755-28230886

E-mail: info@uttlab.com

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1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I

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

1.6 TEST LOCATION

All tests were performed at:

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China 518109

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

1.7 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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Fax: +86-755-28230886

E-mail: info@uttlab.com

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None.

2. EQUIPMENT LIST

Please refer to the RF test report.



3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title
1	FCC 47 CFR Part 1 Subpart I	PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969
2	KDB 447498 D01 General RF Exposure Guidance v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100000	/	/	1	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION METHOD

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

S = power density (in appropriate units, e.g., mw/cm²)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

3.4 MPE CALCULATION RESULTS

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

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Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 For WLAN

For Wi-Fi function, operating at 2412MHz to 2462 MHz for IEEE802.11b/g/n and operating at 5150 MHz to 5250 MHz for IEEE802.11a/n/ac and operating at 5250 MHz to 5350 MHz for IEEE802.11a/n/ac and operating at 5470 MHz to 5725 MHz for IEEE802.11a/n/ac and operating at 5725 MHz to 5850 MHz for IEEE802.11a/n/ac.

3.4.1.1 Antenna Type:

Chain 0: PFIA Antenna

3.4.1.2 Antenna Gain:

Chain 0: 2412MHz to 2462 MHz: 0.5 dBi
 5150 MHz to 5250 MHz: 0.8 dBi
 5250 MHz to 5350 MHz: 0.6 dBi
 5470 MHz to 5725 MHz: 0.8 dBi
 5725 MHz to 5850 MHz: 0.7 dBi

3.4.1.3 Results for WLAN

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)		(dBi)	(dBm)	(mW)	(mw/cm ²)	
IEEE 802.11b IEEE 802.11g	2412	22	2.0	0.5	24.5	281.838	1	0.0561
	2437	22	2.0	0.5	24.5	281.838	1	0.0561
	2462	22	2.0	0.5	24.5	281.838	1	0.0561
IEEE 802.11n-HT20	2412	24	2.0	0.5	26.5	446.684	1	0.0889
	2437	24	2.0	0.5	26.5	446.684	1	0.0889
	2462	24	2.0	0.5	26.5	446.684	1	0.0889
IEEE 802.11a	5180	15	2.0	0.8	17.8	60.256	1	0.0120
	5220	15	2.0	0.8	17.8	60.256	1	0.0120
	5240	15	2.0	0.8	17.8	60.256	1	0.0120
	5260	15	2.0	0.6	17.6	57.544	1	0.0114
	5300	15	2.0	0.6	17.6	57.544	1	0.0114
	5320	15	2.0	0.6	17.6	57.544	1	0.0114
	5500	15	2.0	0.8	17.8	60.256	1	0.0120
	5580	15	2.0	0.8	17.8	60.256	1	0.0120
	5700	15	2.0	0.8	17.8	60.256	1	0.0120
	5745	13	2.0	0.7	15.7	37.154	1	0.0074
	5785	13	2.0	0.7	15.7	37.154	1	0.0074
5805	13	2.0	0.7	15.7	37.154	1	0.0074	
IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5180	15	2.0	0.8	17.8	60.256	1	0.0120
	5220	15	2.0	0.8	17.8	60.256	1	0.0120
	5240	15	2.0	0.8	17.8	60.256	1	0.0120
	5260	15	2.0	0.6	17.6	57.544	1	0.0114
	5300	15	2.0	0.6	17.6	57.544	1	0.0114
	5320	15	2.0	0.6	17.6	57.544	1	0.0114
	5500	15	2.0	0.8	17.8	60.256	1	0.0120
	5580	15	2.0	0.8	17.8	60.256	1	0.0120

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)	(mW)	(mw/cm ²)	
	5700	15	2.0	0.8	17.8	60.256	1	0.0120
	5745	12	2.0	0.7	14.7	29.512	1	0.0059
	5785	12	2.0	0.7	14.7	29.512	1	0.0059
	5805	12	2.0	0.7	14.7	29.512	1	0.0059
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5190	15	2.0	0.8	17.8	60.256	1	0.0120
	5230	15	2.0	0.8	17.8	60.256	1	0.0120
	5270	15	2.0	0.6	17.6	57.544	1	0.0114
	5310	15	2.0	0.6	17.6	57.544	1	0.0114
	5510	15	2.0	0.8	17.8	60.256	1	0.0120
	5550	15	2.0	0.8	17.8	60.256	1	0.0120
	5670	15	2.0	0.8	17.8	60.256	1	0.0120
	5755	12	2.0	0.7	14.7	29.512	1	0.0059
5795	12	2.0	0.7	14.7	29.512	1	0.0059	
IEEE 802.11ac-VHT80	5230	11	2.0	0.8	13.8	23.988	1	0.0048
	5290	11	2.0	0.6	13.6	22.909	1	0.0046
	5530	14	2.0	0.8	16.8	47.863	1	0.0095
	5610	14	2.0	0.8	16.8	47.863	1	0.0095
	5775	12	2.0	0.7	14.7	29.512	1	0.0059

Remark: The minimum mobile separation distance to the center of radiation of the antenna, R=20cm.

3.4.2 For BT

For BT_LE function, operating at 2402MHz to 2480 MHz for GFSK and

For BT_EDR function, operating at 2402MHz to 2480 MHz for GFSK, $\pi/4$ DQPSK, 8DPSK

3.4.2.1 Antenna Type:

Chain 0: PFIA Antenna

3.4.2.2 Antenna Gain:

Chain 0: 2402MHz to 2480 MHz: 0.5 dBi

3.4.2.3 Results for BT

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)	(mW)	(mw/cm ²)	
LE	2402	6	2.0	0.5	8.5	7.079	1	0.0014
	2440	6	2.0	0.5	8.5	7.079	1	0.0014
	2480	6	2.0	0.5	8.5	7.079	1	0.0014
EDR	2402	6	2.0	0.5	8.5	7.079	1	0.0014
	2441	6	2.0	0.5	8.5	7.079	1	0.0014
	2480	6	2.0	0.5	8.5	7.079	1	0.0014

Remark: The minimum mobile separation distance to the center of radiation of the antenna, R=20cm.

3.4.3 Simultaneous Multi-band Transmission MPE Analysis

List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Support/Not Support
1	WLAN + BT	Not Support

Results for transmit simultaneously
Not applicable.



APPENDIX 1 PHOTOS OF TEST SETUP

N/A

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
