

FCC RADIO TEST REPORT

FCC ID:2AJNJ-T08P

Product: True wireless Sports Bluetooth Headphone

Trade Name: N/A

Model Name: T08P

GL022, T08, T08S, T08Pro, H10, H12, lezii T08,

Serial Model: SoundSport Free 08, A8, YH-08, WAVEFUN

X-Pods 6, fullpower TWS-08

Report No.: UNIA19112204ER-02

Prepared for

SHENZHEN WAHCHING TECHNOLOGY CO., LTD.

Penglongpan Hi-Tech Industrial Park, Dafu Industrial Zone, Guanlan Street, Longhua New District, Shenzhen, China

Prepared by

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TEST RESULTCERTIFICATION

Page 2 of 39

Applicant's name:	SHENZHEN WAHCHING TECHNOLOGY CO., LTD.
Address:	Penglongpan Hi-Tech Industiral Park, Dafu Industrial Zone, Guanlan Street, Longhua New District, Shenzhen, China
Manufacture's Name:	SHENZHEN WAHCHING TECHNOLOGY CO., LTD.
Address:	Penglongpan Hi-Tech Industiral Park, Dafu Industrial Zone, Guanlan Street, Longhua New District, Shenzhen, China
Product description	
Product name:	True wireless Sports Bluetooth Headphone
Trade Mark:	N/A
Model and/or type reference .:	T08P, GL022, T08, T08S, T08Pro, H10, H12, lezii T08, SoundSport Free 08, A8, YH-08, WAVEFUN X-Pods 6, fullpower TWS-08
Standards	FCC Rules and Regulations Part 15 Subpart C Section 15.249, ANSI C63.10: 2013
Co., Ltd., and the test results with the FCC requirements. A report. This report shall not be reproducument may be altered or the state of the stat	has been tested by Shenzhen United Testing Technology show that the equipment under test (EUT) is in compliance and it is applicable only to the tested sample identified in the duced except in full, without the written approval of UNI, this revised by Shenzhen United Testing Technology Co., Ltd., noted in the revision of the document.
Date of Test	
Date of Issue Test Result	
Test Result	: Pass
	Kaln Yang
Prepared by:	TOTAL STATE OF THE PARTY OF THE
n. n.	Kahn yang/Editor
Reviewer:	
	Sherwin Qian/Supervisor
Approved & Authorized Signo	Jintle Vinte
Approved a Authorized Signi	Liuze/Manager







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1. TEST SUMMARY

TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT	STANGARD
CONDUCTED EMISSIONS TEST	COMPLIANT	FCC Part 15.207
RADIATED EMISSION TEST	COMPLIANT	FCC Part 15.209/15.249
BAND EDGE	COMPLIANT	FCC Part 15.249/15.205
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT	FCC Part 15.249
ANTENNA REQUIREMENT	COMPLIANT	FCC Part 15.203

TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.

Address : 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang

Community, Xixiang Str, Bao'an District, Shenzhen, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

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

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 21947

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

MEASUREMENT UNCERTAINTY

Measurement Uncertainty

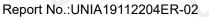
Conducted Emission Expanded Uncertainty = 2.23dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



2. GENERAL INFORMATION

2.1GENERAL DESCRIPTION OF EUT

Equipment	True wireless Sports Bluetooth Headphone
Trade Mark	N/A
Model Name	T08P
Serial No.	GL022, T08, T08S, T08Pro, H10, H12, lezii T08, SoundSport Free 08, A8, YH-08, WAVEFUN X-Pods 6, fullpower TWS-08
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: T08P.
FCC ID	2AJNJ-T08P
Antenna Type	Ceramic antenna
Antenna Gain	1dBi
Frequency Range	2402~2480MHz
Number of Channels	79CH
Modulation Type	GFSK, π/4 DQPSK, 8DPSK
Battery	DC3.7V 50mAh
PowerSource	AC 100-240V~50/60Hz





2.2 Carrier Frequency of Channels

			Chann	el List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	21	2423	42	2444	63	2465
01	2403	22	2424	43	2445	64	2466
02	2404	23	2425	44	2446	65	2467
03	2405	24	2426	45	2447	66	2468
04	2406	25	2427	46	2448	67	2469
05	2407	26	2428	47	2449	68	2470
06	2408	27	2429	48	2450	69	2471
07	2409	28	2430	49	2451	70	2472
08	2410	29	2431	50	2452	71	2473
09	2411	30	2432	51	2453	72	2474
10	2412	31	2433	52	2454	73	2475
11	2413	32	2434	53	2455	74	2476
12	2414	33	2435	54	2456	75	2477
13	2415	34	2436	55	2457	76	2478
14	2416	35	2437	56	2458	77	2479
15	2417	36	2438	57	2459	78	2480
16	2418	37	2439	58	2460		
17	2419	38	2440	59	2461		, N
18	2420	39	2441	60	2462		
19	2421	40	2442	61	2463		
20	2422	41	2443	62	2464		



2.3 Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz Middle Channel: 2441MHz High Channel: 2480MHz

2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted testing:

AC Power	Adapter	EUT

Operation of EUT duringRadiation testing:



Table forauxiliary equipment:

Equipment Description	Manufacturer	Model	Calibration Due Date
Adapter	HuaWei	HW-050200C01	N/A



2.5 MEASUREMENT INSTRUMENTS LIST

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Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated unti
		CONDUCTED	EMISSIONS TEST	4.	•
1	AMN	Schwarzbeck	NNLK8121	8121370	2020.9.6
2	AMN	ETS	3810/2	00020199	2020.9.6
3	EMI TEST RECEIVER	Rohde&Schwarz	ESCI	101210	2020.9.6
4	AAN	TESEQ	T8-Cat6	38888	2020.9.6
	1 1	RADIATED E	MISSION TEST	8	
1	Horn Antenna	Sunol	DRH-118	A101415	2020.9.6
2	BicoNILog Antenna	Sunol	JB1 Antenna	A090215	2020.9.6
3	PREAMP	HP	8449B	3008A00160	2020.9.6
4	PREAMP	HP	8447D	2944A07999	2020.9.6
5	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2020.9.6
6	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2020.9.6
7	Signal Generator	Agilent	E4421B	MY4335105	2020.9.6
8	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2020.9.6
9	MXA Signal Analyzer	Agilent	N9020A	MY51110104	2020.9.6
10	ANT Tower&Turn table Controller	Champro	EM 1000	60764	2020.9.6
11	Anechoic Chamber	Taihe Maorui	9m*6m*6m	966A0001	2020.9.6
12	Shielding Room	Taihe Maorui	6.4m*4m*3m	643A0001	2020.9.6
13	RF Power sensor	DARE	RPR3006W	15I00041SNO88	2020.3.14
14	RF Power sensor	DARE	RPR3006W	15I00041SNO89	2020.3.14
15	RF power divider	Anritsu	K241B	992289	2020.9.6
16	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2020.9.6
17	Biconical antenna	Schwarzbeck	VHA 9103	91032360	2020.9.6
18	Biconical antenna	Schwarzbeck	VHA 9103	91032361	2020.9.6
19	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2020.9.6
20	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2020.1.12
21	Active Receive Loop Antenna	Schwarzbeck	FMZB 1919B	00023	2020.9.6
22	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170651	2020.03.14
23	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2019.10.24
24	Active Loop Antenna	Com-Power	AL-130R	10160009	2020.05.10
25	Power Meter	KEYSIGHT	N1911A	MY50520168	2020.05.10
26	Frequency Meter	VICTOR	VC2000	997406086	2020.05.10
27	DC Power Source	HYELEC	HY5020E	055161818	2020.05.10



3. CONDUCTED EMISSIONS TEST

3.1 Conducted Power Line Emission Limit

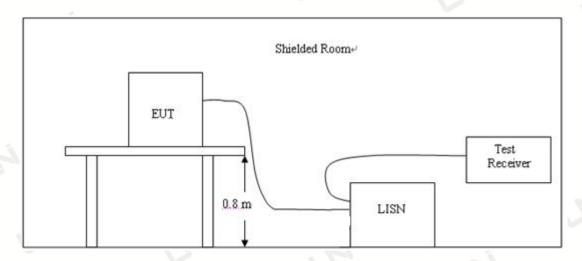
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For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

_	Maximum RF Line Voltage(dBμV)					
Frequency	CLA	SS A	CLASS B			
(MHz)	Q.P.	Ave.	Q.P.	Ave.		
0.15~0.50	79	66	66~56*	56~46*		
0.50~5.00	73	60	56	46		
5.00~30.0	73	60	60	50		

^{*} Decreasing linearly with the logarithm of the frequency
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1,The equipment was set up as per the test configuration to simulate typical actual usage per the user'smanual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed onthe ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4,If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hzpower through a Line Impedance Stabilization Network (LISN) which supplied power source and wasgrounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUTusing a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has twomonitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

Pass

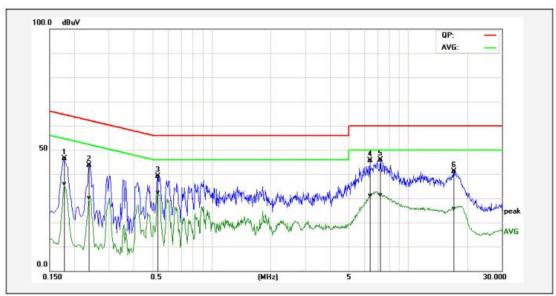
Remark

- 1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.
- 2. All modes of Low, Middle, and High channel were tested, only the worst result of High Channel was reported as below:





Temperature:	24°C	Relative Humidity:	45%
Test Date:	Dec. 02, 2019	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Line
Test Mode:	Transmitting mode of GFSK 2480	MHz	, ri



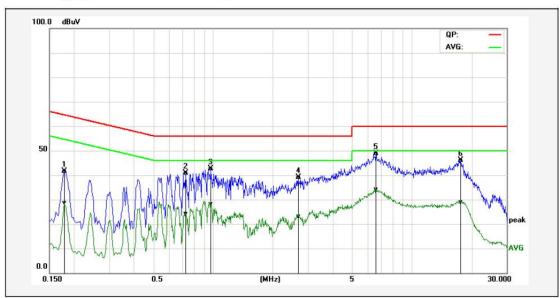
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak Iimit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.1780	36.60	26.10	9.69	46.29	35.79	64.57	54.58	-18.28	-18.79	Pass
2P	0.2380	33.97	20.35	9.77	43.74	30.12	62.16	52.17	-18.42	-22.05	Pass
3*	0.5340	29.22	22.64	9.80	39.02	32.44	56.00	46.00	-16.98	-13.56	Pass
4P	6.4140	35.74	21.25	9.93	45.67	31.18	60.00	50.00	-14.33	-18.82	Pass
5P	7.2340	36.07	21.52	9.93	46.00	31.45	60.00	50.00	-14.00	-18.55	Pass
6P	17.1620	40.66	25.21	0.38	41.04	25.59	60.00	50.00	-18.96	-24.41	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result=Reading + Factor, Margin=Result – Limit.





Temperature:	24°C	Relative Humidity:	45%
Test Date:	Dec. 02, 2019	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral
Test Mode:	Transmitting mode of GFSK 2480	MHz	, N



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.1780	31.92	18.97	9.69	41.61	28.66	64.58	54.58	-22.97	-25.92	Pass
2P	0.7300	31.17	14.43	9.82	40.99	24.25	56.00	46.00	-15.01	-21.75	Pass
3P	0.9780	32.76	18.21	9.87	42.63	28.08	56.00	46.00	-13.37	-17.92	Pass
4P	2.6900	29.10	13.18	9.92	39.02	23.10	56.00	46.00	-16.98	-22.90	Pass
5*	6.6180	38.95	24.25	9.91	48.86	34.16	60.00	50.00	-11.14	-15.84	Pass
6P	17.6380	35.98	18.66	10.13	46.11	28.79	60.00	50.00	-13.89	-21.21	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result=Reading + Factor, Margin=Result – Limit.



4 RADIATED EMISSION TEST

4.1 Radiation Limit

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength ofradiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limit calculation and transfer to 3m distance as showed in the following table:

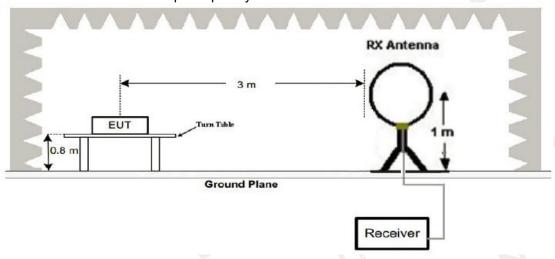
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Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	20log(2400/F(KHz))+40log(300/3)	3
0.490-1.705	20log(24000/F(KHz))+40log(30/3)	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

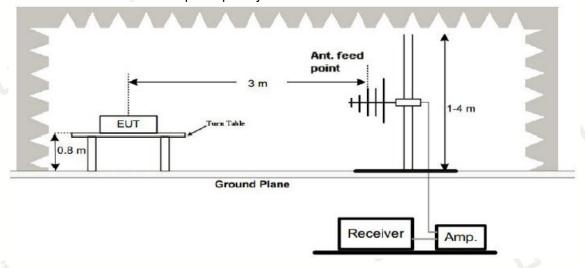
For intentional device, according to § 15.209(a), the general requirement of field strength of radiatedemissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

1. Radiated Emission Test-Up Frequency Below 30MHz



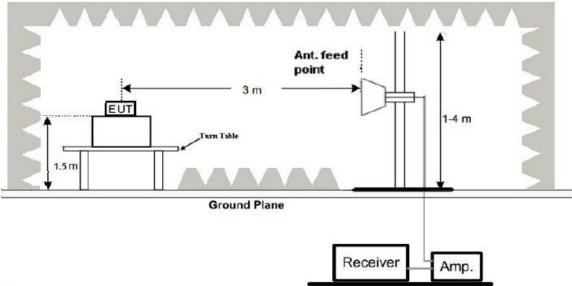
2. Radiated Emission Test-Up Frequency 30MHz~1GHz





3. Radiated Emission Test-Up Frequency Above 1GHz

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4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highestemissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna bothhorizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

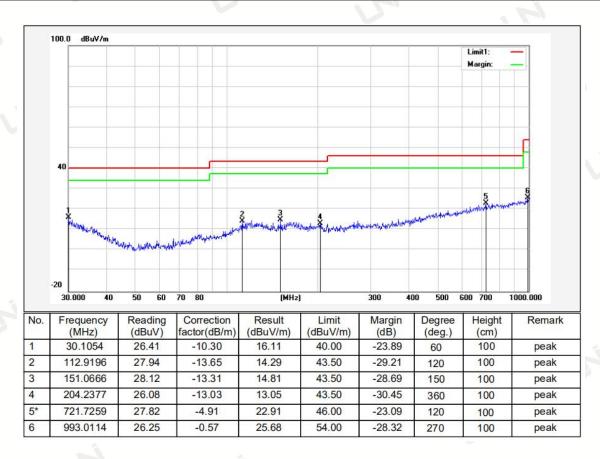
Remark:

- 1. All the test modes completed for test. The worst case of Radiated Emissionis High channel, the test data of this mode was reported.
- 2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.
- 3. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9KHz to 30MHz and not recorded in this report.

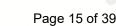


Below 1GHz Test Results:

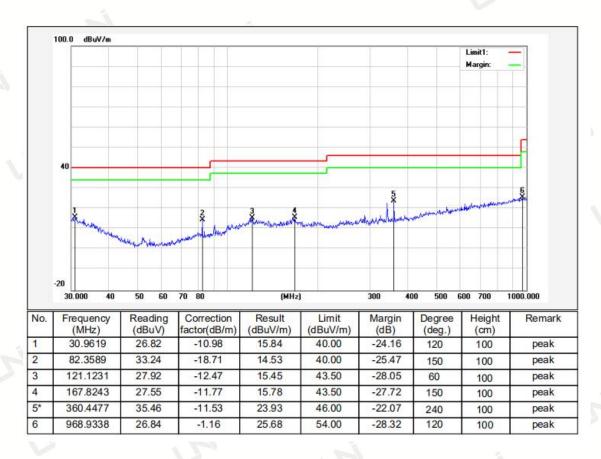
Temperature:	24°C	Relative Humidity:	45%			
Test Date:	Dec. 02, 2019	Pressure:	1010hPa			
Test Voltage:	AC 120V, 60Hz	Polarization:	Horizontal			
Test Mode:	ransmitting mode of GFSK 2480MHz					



Remark: Absolute Level= Reading Level+ Factor, Margin= Absolute Level – Limit Factor=Ant. Factor + Cable Loss – Pre-amplifier



Temperature:	24°C	Relative Humidity:	45%			
Test Date:	Dec. 02, 2019	Pressure:	1010hPa			
Test Voltage:	AC 120V, 60Hz	Polarization:	Vertical			
Test Mode:	Transmitting mode of GFSK 2480MHz					



Remark: Absolute Level= Reading Level+ Factor, Margin= Absolute Level – Limit Factor=Ant. Factor + Cable Loss – Pre-amplifier

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHzwas verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



Above 1 GHz Test Results: CH Low (2402MHz)

GFSK

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	107.52	-5.84	101.68	114	-12.32	PK
2402	78.26	-5.84	72.42	94	-21.58	AV
4804	61.35	-3.64	57.71	74	-16.29	PK
4804	49.52	-3.64	45.88	54	-8.12	AV
7206	57.23	-0.95	56.28	74	-17.72	PK
7206	46.71	-0.95	45.76	54	-8.24	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin= Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	107.15	-5.84	101.31	114	-12.69	PK
2402	76.32	-5.84	70.48	94	-23.52	AV
4804	65.24	-3.64	61.60	74	-12.40	PK
4804	49.58	-3.64	45.94	54	-8.06	AV
7206	57.16	-0.95	56.21	74	-17.79	PK
7206	47.25	-0.95	46.30	54	-7.70	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit



CH Middle (2441MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	108.06	-5.71	102.35	114	-11.65	PK
2441	79.62	-5.71	73.91	94	-20.09	AV
4882	61.21	-3.51	57.70	74	-16.30	PK
4882	47.85	-3.51	44.34	54	-9.66	AV
7323	57.62	-0.82	56.80	74	-17.20	PK
7323	47.31	-0.82	46.49	54	-7.51	AV

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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	107.62	-5.71	101.91	114	-12.09	PK
2441	80.06	-5.71	74.35	94	-19.65	AV
4882	61.31	-3.51	57.80	74	-16.20	PK
4882	48.62	-3.51	45.11	54	-8.89	AV
7323	57.64	-0.82	56.82	74	-17.18	PK
7323	46.88	-0.82	46.06	54	-7.94	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit

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CH High (2480MHz) Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	108.21	-5.65	102.56	114	-11.44	PK
2480	80.23	-5.65	74.58	94	-19.42	AV
4960	62.15	-3.43	58.72	74	-15.28	PK
4960	48.25	-3.43	44.82	54	-9.18	AV
7440	57.64	-0.75	56.89	74	-17.11	PK
7440	46.19	-0.75	45.44	54	-8.56	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit

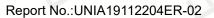
Vertical:

Reading					
Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
107.52	-5.65	101.87	114	-12.13	PK
79.26	-5.65	73.61	94	-20.39	AV
61.23	-3.43	57.80	74	-16.20	PK
46.29	-3.43	42.86	54	-11.14	AV
57.46	-0.75	56.71	74	-17.29	PK
47.23	-0.75	46.48	54	-7.52	AV
	(dBμV) 107.52 79.26 61.23 46.29 57.46	Result (dBμV) (dB) 107.52 -5.65 79.26 -5.65 61.23 -3.43 46.29 -3.43 57.46 -0.75	Result (dBμV) (dB) (dBμV/m) 107.52 -5.65 101.87 79.26 -5.65 73.61 61.23 -3.43 57.80 46.29 -3.43 42.86 57.46 -0.75 56.71	Result (dBμV) (dB) (dBμV/m) (dBμV/m) 107.52 -5.65 101.87 114 79.26 -5.65 73.61 94 61.23 -3.43 57.80 74 46.29 -3.43 42.86 54 57.46 -0.75 56.71 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 107.52 -5.65 101.87 114 -12.13 79.26 -5.65 73.61 94 -20.39 61.23 -3.43 57.80 74 -16.20 46.29 -3.43 42.86 54 -11.14 57.46 -0.75 56.71 74 -17.29

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range ,that the value more than 20dB below limit is not record in the form.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 3MHz for peak measurement with peak detectorat frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.





π /4 DQPSK Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	107.46	-5.84	101.62	114	-12.38	PK
2402	80.59	-5.84	74.75	94	-19.25	AV
4804	61.24	-3.64	57.60	74	-16.40	PK
4804	48.27	-3.64	44.63	54	-9.37	AV
7206	56.37	-0.95	55.42	74	-18.58	PK
7206	47.22	-0.95	46.27	54	-7.73	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin= Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	106.46	-5.84	100.62	114	-13.38	PK
2402	79.24	-5.84	73.40	94	-20.60	AV
4804	61.45	-3.64	57.81	74	-16.19	PK
4804	47.62	-3.64	43.98	54	-10.02	AV
7206	57.42	-0.95	56.47	74	-17.53	PK
7206	46.21	-0.95	45.26	54	-8.74	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit



CH Middle (2441MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	108.21	-5.71	102.50	114	-11.50	PK
2441	80.36	-5.71	74.65	94	-19.35	AV
4882	61.24	-3.51	57.73	74	-16.27	PK
4882	47.69	-3.51	44.18	54	-9.82	AV
7323	56.23	-0.82	55.41	74	-18.59	PK
7323	47.19	-0.82	46.37	54	-7.63	AV

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Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	107.29	-5.71	101.58	114	-12.42	PK
2441	79.69	-5.71	73.98	94	-20.02	AV
4882	61.02	-3.51	57.51	74	-16.49	PK
4882	49.63	-3.51	46.12	54	-7.88	AV
7323	57.18	-0.82	56.36	74	-17.64	PK
7323	47.36	-0.82	46.54	54	-7.46	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit



Reading Result (dBµV)	Factor (dB)	Emission Level	Limits (dBµV/m)	Margin	Detector
,	(dB)	(dBµV/m)	(dBu\//m)	(ID)	I
107 31			(αυμν/ΙΙΙ)	(dB)	Туре
107.31	-5.65	101.66	114	-12.34	PK
79.61	-5.65	73.96	94	-20.04	AV
61.25	-3.43	57.82	74	-16.18	PK
49.38	-3.43	45.95	54	-8.05	AV
57.29	-0.75	56.54	74	-17.46	PK
47.16	-0.75	46.41	54	-7.59	AV
	79.61 61.25 49.38 57.29	79.61 -5.65 61.25 -3.43 49.38 -3.43 57.29 -0.75	79.61 -5.65 73.96 61.25 -3.43 57.82 49.38 -3.43 45.95 57.29 -0.75 56.54	79.61 -5.65 73.96 94 61.25 -3.43 57.82 74 49.38 -3.43 45.95 54 57.29 -0.75 56.54 74	79.61 -5.65 73.96 94 -20.04 61.25 -3.43 57.82 74 -16.18 49.38 -3.43 45.95 54 -8.05 57.29 -0.75 56.54 74 -17.46

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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit

Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
107.62	-5.65	101.97	114	-12.03	PK
79.21	-5.65	73.56	94	-20.44	AV
64.35	-3.43	60.92	74	-13.08	PK
48.62	-3.43	45.19	54	-8.81	AV
57.32	-0.75	56.57	74	-17.43	PK
46.51	-0.75	45.76	54	-8.24	AV
	Result (dBµV) 107.62 79.21 64.35 48.62 57.32	Result Factor (dBμV) (dB) 107.62 -5.65 79.21 -5.65 64.35 -3.43 48.62 -3.43 57.32 -0.75	Result Factor Emission Level (dBμV) (dB) (dBμV/m) 107.62 -5.65 101.97 79.21 -5.65 73.56 64.35 -3.43 60.92 48.62 -3.43 45.19 57.32 -0.75 56.57	Result Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 107.62 -5.65 101.97 114 79.21 -5.65 73.56 94 64.35 -3.43 60.92 74 48.62 -3.43 45.19 54 57.32 -0.75 56.57 74	Result Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 107.62 -5.65 101.97 114 -12.03 79.21 -5.65 73.56 94 -20.44 64.35 -3.43 60.92 74 -13.08 48.62 -3.43 45.19 54 -8.81 57.32 -0.75 56.57 74 -17.43

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range ,that the value more than 20dB below limit is not record in the form.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 3MHz for peak measurement with peak detectorat frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.



8DPSK Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре			
2402	106.85	-5.84	101.01	114	-12.99	PK			
2402	78.62	-5.84	72.78	94	-21.22	AV			
4804	61.23	-3.64	57.59	74	-16.41	PK			
4804	48.51	-3.64	44.87	54	-9.13	AV			
7206	57.29	-0.95	56.34	74	-17.66	PK			
7206	47.51	-0.95	46.56	54	-7.44	AV			
Remark: Fact	or = Antenna	Factor + Cabl	e Loss – Pre-ampli	ifier. Margin=	Absolute Le	vel – Limit			

Report No.:UNIA19112204ER-02

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	107.62	-5.84	101.78	114	-12.22	PK
2402	79.25	-5.84	73.41	94	-20.59	AV
4804	61.42	-3.64	57.78	74	-16.22	PK
4804	48.65	-3.64	45.01	54	-8.99	AV
7206	57.16	-0.95	56.21	74	-17.79	PK
7206	46.38	-0.95	45.43	54	-8.57	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit



CH Middle (2441MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	107.52	-5.71	101.81	114	-12.19	PK
2441	80.63	-5.71	74.92	94	-19.08	AV
4882	60.18	-3.51	56.67	74	-17.33	PK
4882	47.65	-3.51	44.14	54	-9.86	AV
7323	56.88	-0.82	56.06	74	-17.94	PK
7323	47.34	-0.82	46.52	54	-7.48	AV

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Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2441	108.22	-5.71	102.51	114	-11.49	PK
2441	81.34	-5.71	75.63	94	-18.37	AV
4882	61.59	-3.51	58.08	74	-15.92	PK
4882	47.51	-3.51	44.00	54	-10.00	AV
7323	57.31	-0.82	56.49	74	-17.51	PK
7323	48.03	-0.82	47.21	54	-6.79	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit



Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	107.42	-5.65	101.77	114	-12.23	PK
2480	79.65	-5.65	74.00	94	-20.00	AV
4960	61.25	-3.43	57.82	74	-16.18	PK
4960	48.34	-3.43	44.91	54	-9.09	AV
7440	57.26	-0.75	56.51	74	-17.49	PK
7440	47.68	-0.75	46.93	54	-7.07	AV

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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit

Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
108.06	-5.65	102.41	114	-11.59	PK
80.79	-5.65	75.14	94	-18.86	AV
61.24	-3.43	57.81	74	-16.19	PK
47.61	-3.43	44.18	54	-9.82	AV
57.34	-0.75	56.59	74	-17.41	PK
47.26	-0.75	46.51	54	-7.49	AV
	Result (dBµV) 108.06 80.79 61.24 47.61 57.34	Result Factor (dBμV) (dB) 108.06 -5.65 80.79 -5.65 61.24 -3.43 47.61 -3.43 57.34 -0.75	Result Factor Emission Level (dBμV) (dB) (dBμV/m) 108.06 -5.65 102.41 80.79 -5.65 75.14 61.24 -3.43 57.81 47.61 -3.43 44.18 57.34 -0.75 56.59	Result Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 108.06 -5.65 102.41 114 80.79 -5.65 75.14 94 61.24 -3.43 57.81 74 47.61 -3.43 44.18 54 57.34 -0.75 56.59 74	Result Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 108.06 -5.65 102.41 114 -11.59 80.79 -5.65 75.14 94 -18.86 61.24 -3.43 57.81 74 -16.19 47.61 -3.43 44.18 54 -9.82 57.34 -0.75 56.59 74 -17.41

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin= Absolute Level – Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range ,that the value more than 20dB below limit is not record in the form.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 3MHz for peak measurement with peak detectorat frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.

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5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emissionlimits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSIC63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT issituated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and setRBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

GFSK

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	54.63	-5.81	48.82	74	-25.18	PK
2310		-5.81		54	1	AV
2390	55.68	-5.84	49.84	74	-24.16	PK
2390	1	-5.84	1	54	1	AV
2400	57.41	-5.84	51.57	74	-22.43	PK
2400	1	-5.84	1	54	/	AV

Vertical:

vertical.		I				
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2310	54.19	-5.81	48.38	74	-25.62	PK
2310	1	-5.81	1	54	1	AV
2390	56.28	-5.84	50.44	74	-23.56	PK
2390	1	-5.84	1	54		AV
2400	57.82	-5.84	51.98	74	-22.02	PK
2400	1	-5.84	1	54	1	AV
					•	

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2480MHz)

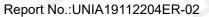
Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.23	-5.65	51.58	74	-22.42	PK
2483.5	1	-5.65	1	54	1	AV
2500	56.21	-5.72	50.49	74	-23.51	PK
2500	1	-5.72		54	1	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.46	-5.65	51.81	74	-22.19	PK
2483.5	1 1	-5.65	1	54	/	AV
2500	55.46	-5.72	49.74	74	-24.26	PK
2500	1	-5.72	1	54	1	AV





π /4 DQPSK

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	54.31	-5.81	48.50	74	-25.50	PK
2310	1	-5.81	/	54	1	AV
2390	55.64	-5.84	49.80	74	-24.20	PK
2390	I	-5.84	N 1	54	1	AV
2400	57.49	-5.84	51.65	74	-22.35	PK
2400	1	-5.84	1	54	1	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

v ortioui.				4		
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	54.26	-5.81	48.45	74	-25.55	PK
2310	1	-5.81	1	54	1	AV
2390	55.19	-5.84	49.35	74	-24.65	PK
2390	1	-5.84	1	54	1	AV
2400	57.39	-5.84	51.55	74	-22.45	PK
2400	1	-5.84	1	54	1	AV



Operation Mode: TX CH High (2480MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.68	-5.65	52.03	74	-21.97	PK
2483.5	1	-5.65	1	54	1	AV
2500	54.19	-5.72	48.47	74	-25.53	PK
2500	1	-5.72		54	1	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
57.82	-5.65	52.17	74	-21.83	PK
1	-5.65	1	54	1	AV
54.36	-5.72	48.64	74	-25.36	PK
1	-5.72	1	54	1	AV
	(dBμV) 57.82	(dBµV) (dB) 57.82 -5.65 / -5.65 54.36 -5.72	(dBμV) (dB) (dBμV/m) 57.82 -5.65 52.17 / -5.65 / 54.36 -5.72 48.64	(dBμV) (dB) (dBμV/m) (dBμV/m) 57.82 -5.65 52.17 74 / -5.65 / 54 54.36 -5.72 48.64 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 57.82 -5.65 52.17 74 -21.83 / -5.65 / 54 / 54.36 -5.72 48.64 74 -25.36

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8DPSK

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	55.34	-5.81	49.53	74	-24.47	PK
2310	1	-5.81	1	54	1	AV
2390	56.48	-5.84	50.64	74	-23.36	PK
2390		-5.84	1	54	1	AV
2400	57.69	-5.84	51.85	74	-22.15	PK
2400	/	-5.84	1	54	1	AV

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	54.36	-5.81	48.55	74	-25.45	PK
2310	1	-5.81	1	54	1	AV
2390	55.91	-5.84	50.07	74	-23.93	PK
2390	/	-5.84	1	54	1	AV
2400	57.84	-5.84	52.00	74	-22.00	PK
2400	1	-5.84	1	54	1	AV



Operation Mode: TX CH High (2480MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.64	-5.65	51.99	74	-22.01	PK
2483.5	1	-5.65	1	54	1	AV
2500	55.34	-5.72	49.62	74	-24.38	PK
2500	1	-5.72		54	1	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	58.16	-5.65	52.51	74	-21.49	PK
2483.5	1	-5.65	1	54	/	AV
2500	55.49	-5.72	49.77	74	-24.23	PK
2500	1	-5.72	1	54	1	AV



6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same asRadiated Emission Measurement

6.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.

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- 2. Set EUT as normal operation.
- 3. Based on ANSI C63.10 section 6.9.2: RBW=30KHz. VBW=100KHz, Span=3MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement. The two headset circuits of the prototype are the same, so only one headset is tested.

6.4 Test Result

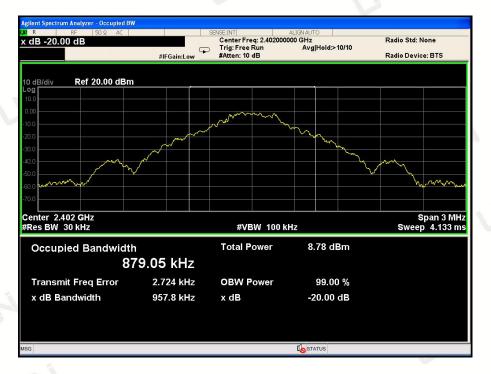
PASS

Left earphone

DH5

Frequency (MHz)	20dB Bandwidth (MHz)	Result
2402	0.9578	PASS
2441	0.9363	PASS
2480	0.9616	PASS

CH:2402MHz





CH:2441MHz



CH:2480MHz







2DH5

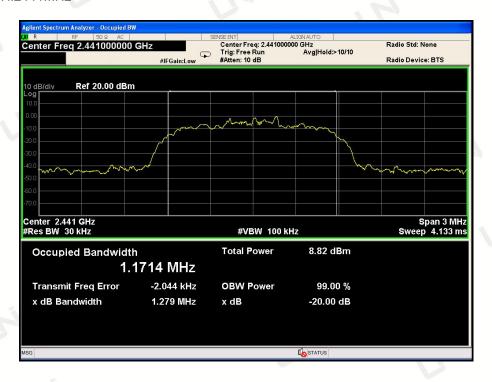
Frequency (MHz)	20dB Bandwidth (MHz)	Result
2402	1.283	PASS
2441	1.279	PASS
2480	1.283	PASS

CH:2402MHz

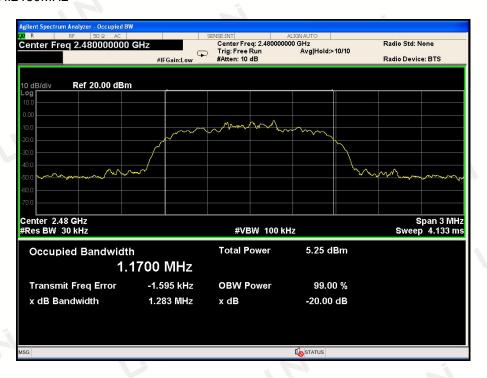




CH:2441MHz



CH:2480MHz



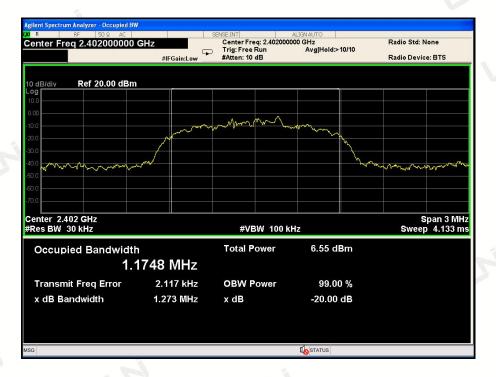




3DH5

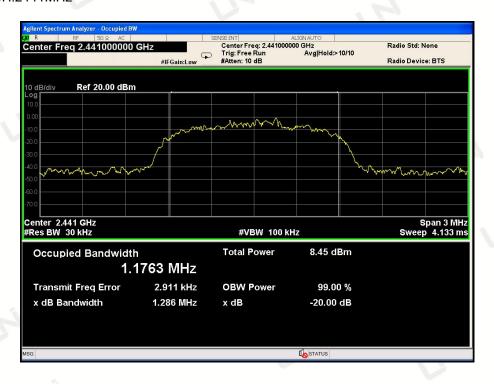
Frequency (MHz)	20dB Bandwidth (MHz)	Result
2402	1.273	PASS
2441	1.286	PASS
2480	1.278	PASS

CH:2402MHz

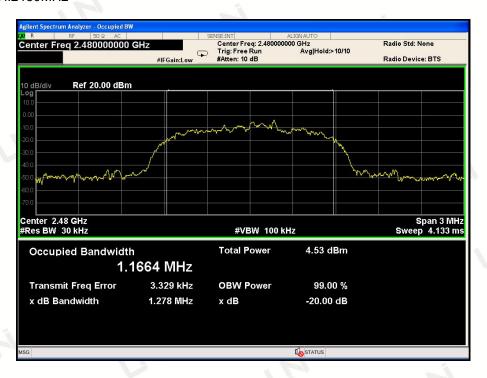




CH:2441MHz



CH:2480MHz



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7 ANTENNA REQUIREMENT

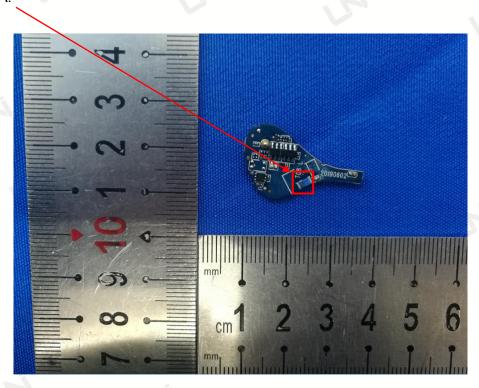
Standard Applicable:

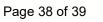
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed toensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna used in this product is a Ceramic Antenna, The directional gains of antenna used for transmitting is 1dBi.

ANTENNA:







8 PHOTOGRAPH OF TEST

8.1Radiated Emission







8.2Conducted Emission



End of Report