FCC TEST REPORT

Report No: SSP23090157-2E

FCC ID: 2BFRU-Q32

Report No. : SSP23090157-2E

Applicant : Shenzhen ZhiHuiJu Technology Co.,Ltd

Product Name : Smart watch

Model Name : Q32

Test Standard: FCC Part 15.247

Date of Issue : 2024-05-27



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

FCC Test Report Page 1 of 50

APPROVE

Test Report Basic Information

Applicant...... Shenzhen ZhiHuiJu Technology Co.,Ltd

Room A315, Block A, Huafeng International Robot Industrial Park, Gushu

Address of Applicant...... Xixiang, Baoan District, Shenzhen, China

Manufacturer...... Shenzhen ZhiHuiJu Technology Co.,Ltd

Room A315, Block A, Huafeng International Robot Industrial Park, Gushu

Address of Manufacturer......: Xixiang, Baoan District, Shenzhen, China

Product Name Smart watch

Brand Name..... -

Main Model...... Q32

Series Models...... Q19 MAX

FCC Part 15 Subpart C

ANSI C63.4-2014

Test Standard...... ANSI C63.10-2013

Test Result..... Passed

Tested Ry . Larrix Lua (Lorrix Lua)

Reviewed By...... Lieber Ouyang)

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

FCC Test Report Page 2 of 50

CONTENTS

1. General Information	5
1.1 Product Information	5
1.2 Test Setup Information	6
1.3 Compliance Standards	
1.4 Test Facilities	
1.5 List of Measurement Instruments	
2. Summary of Test Results	
3. Antenna Requirement	
3.1 Standard and Limit.	
3.2 Test Result	
4. Conducted Emissions	-
4.1 Standard and Limit	
4.2 Test Procedure	
4.3 Test Data and Results	12
5. Radiated Emissions	15
5.1 Standard and Limit	15
5.2 Test Procedure	
5.3 Test Data and Results	
6. Band-edge Emissions(Radiated)	
6.1 Standard and Limit	
6.2 Test Procedure	
7. Frequency Hopping System	
7.1 Standard and Limit	
7.2 Test Procedure	
7.3 Test Data and Results	
8. Dwell Time	25
8.1 Standard and Limit	25
8.2 Test Procedure	
8.3 Test Data and Results	
9. Maximum Peak Conducted Output Power	
9.1 Standard and Limit	
9.2 Test Procedure	
9.3 Test Data and Results	
10.1 Standard and Limit.	
10.1 Standard and Limit	
10.3 Test Data and Results	
11. Carrier Frequencies Separation	
11.1 Standard and Limit	
11.2 Test Procedure	36
11.3 Test Data and Results	36
12. Number of Hopping Channel	
12.1 Standard and Limit	
12.2 Test Procedure	
12.3 Test Data and Results	
13. Band-edge Emission(Conducted)	
13.1 Standard and Limit	
13.3 Test Data and Results	
14. Conducted RF Spurious Emissions	
14.1 Standard and Limit	
14.2 Test Procedure	
14.3 Test Data and Results	

Report No: SSP23090157-2E

Revision	Issue Date	Description	Revised By
V1.0	2024-05-27	Initial Release	Lahm Peng

FCC Test Report Page 4 of 50

1. General Information

1.1 Product Information

Product Name:	Smart watch
Trade Name:	-
Main Model:	Q32
Series Models:	Q19 MAX
Rated Voltage:	DC 3.8V by battery, USB 5V Charging
Battery:	DC 3.8V, 370mAh
Hardware Version:	Q32-PCB-V1.5
Software Version:	V1.0

Report No: SSP23090157-2E

Note 1: The test data is gathered from a production sample, provided by the manufacturer.

Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.

Wireless Specification	
Wireless Standard:	Bluetooth BR/EDR
Operating Frequency:	2402MHz ~2480MHz
RF Output Power:	-0.18 dBm
Number of Channel:	79
Channel Separation:	1MHz
Modulation:	GFSK, π/4 DQPSK, 8DPSK
Antenna Gain:	-0.18dBi
Type of Antenna:	Integral Antenna
Type of Device:	☐ Portable Device ☐ Mobile Device ☐ Modular Device

FCC Test Report Page 5 of 50

1.2 Test Setup Information

List of Test Modes						
Test Mode	De	escription		Remark		
TM1	Low	est Channel		2402MHz(DH5/2DH5/3DH5)		
TM2	Mide	dle Channel		2441MHz(DH5/2DH5/3DH5)		
TM3	High	est Channel		2480MHz(DH5/2D	H5/3DH5)	
TM4	ŀ	Hopping		2402MHz~2480MHz		
List and Detai	List and Details of Auxiliary Cable					
Descrip	ption	Length (cm)		Shielded/Unshielded	With/Without Ferrite	
-		-		-	-	
-	-			-	-	
List and Details of Auxiliary Equipment						
Descrip	ption	Manufacturer		Model	Serial Number	
Adap	ter	Huawei		HW-100225C00	N/A	
-		-		-	-	

Report No: SSP23090157-2E

List of Channels							
No. of	Frequency	No. of	Frequency	No. of	Frequency	No. of	Frequency
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)	Channel	(MHz)
01	2402	21	2422	41	2442	61	2462
02	2403	22	2423	42	2443	62	2463
03	2404	23	2424	43	2444	63	2464
04	2405	24	2425	44	2445	64	2465
05	2406	25	2426	45	2446	65	2466
~	~	~	~	~	~	~	~
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461		

FCC Test Report Page 6 of 50

1.3 Compliance Standards

Compliance Standards			
ECC Post 15 Colorest C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,		
FCC Part 15 Subpart C	Intentional Radiators		
All measurements contained in this	s report were conducted with all above standards		
According to standards for test	methodology		
FCC Post 15 Colorest C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,		
FCC Part 15 Subpart C	Intentional Radiators		
	American National Standard for Methods of Measurement of Radio-Noise Emissions		
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40		
	GHz.		
ANCI CC2 10 2012	American National Standard of Procedures for Compliance Testing of Unlicensed		
ANSI C63.10-2013	Wireless Devices		
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which			
result is lowering the emission, should be checked to ensure compliance has been maintained.			

Report No: SSP23090157-2E

1.4 Test Facilities

Shenzhen CCUT Quality Technology Co., Ltd.			
1F, Building 35, Changxing Technology Industrial Park, Yutang Street,			
Guangming District, Shenzhen, Guangdong, China			
L18863			
6893.01			
CN1373			
CN0164			

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

FCC Test Report Page 7 of 50

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date	
Conducted Emissions						
AMN	ROHDE&SCHWARZ	ENV216	101097	2023-07-31	2024-07-30	
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30	
		Radiated Emission	ons			
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2023-07-31	2024-07-30	
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30	
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2023-07-31	2024-07-30	
Amplifier	SCHWARZBECK	BBV 9743B	00251	2023-07-31	2024-07-30	
Amplifier	HUABO	YXL0518-2.5-45		2023-07-31	2024-07-30	
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2023-07-31	2024-07-30	
Loop Antenna	DAZE	ZN30900C	21104	2023-08-07	2024-08-06	
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2023-08-07	2024-08-06	
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-07	2024-08-06	
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2023-08-07	2024-08-06	
Conducted RF Testing						
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2023-07-31	2024-07-30	
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2023-07-31	2024-07-30	

Report No: SSP23090157-2E

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
	9kHz ~ 30MHz	±2.88 dB
Radiated Emissions	30MHz ∼ 1GHz	±3.32 dB
Radiated Emissions	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Conducted Output Power	9kHz ~ 26GHz	±0.50 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %
Conducted Spurious Emission	9kHz ~ 26GHz	±1.32 dB

FCC Test Report Page 8 of 50

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.247(i)	RF Exposure(see the RF exposure report)	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.247(d)	Radiated Emissions	Passed
FCC Part 15.247(d)	Band-edge Emissions(Radiated)	Passed
FCC Part 15.247(a)(1), (g), (h)	Frequency Hopping System	Passed
FCC Part 15.247(a)(1)(iii)	Dwell Time	Passed
FCC Part 15.247(b)(1)	Maximum Peak Conducted Output Power	Passed
FCC Part 15.215(c)	Occupied Bandwidth(-20dB)	Passed
FCC Part 15.247(a)(1)	Carrier Frequencies Separation	Passed
FCC Part 15.247(a)(1)(iii)	Number of Hopping Channel	Passed
FCC Part 15.247(d)	Band-edge Emissions(Conducted)	Passed
FCC Part 15.247(d)	Conducted RF Spurious Emissions	Passed

Report No: SSP23090157-2E

Passed: The EUT complies with the essential requirements in the standard

Failed: The EUT does not comply with the essential requirements in the standard

N/A: Not applicable

FCC Test Report Page 9 of 50

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Report No: SSP23090157-2E

3.2 Test Result

This product has an Integral antenna, fulfill the requirement of this section.

FCC Test Report Page 10 of 50

4. Conducted Emissions

4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission	Conducted emissions (dBuV)		
(MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56	56 to 46	
0.5-5	56	46	
5-30	60	50	

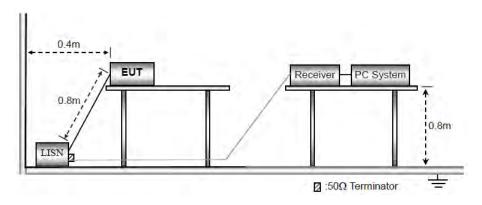
Report No: SSP23090157-2E

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

Note 2: The lower limit applies at the band edges

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

- a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
- b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz Stop Frequency: 30MHz IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

FCC Test Report Page 11 of 50

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

Report No: SSP23090157-2E

- e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item photographs of the test setup.

4.3 Test Data and Results

All of the GFSK, $\pi/4$ DQPSK and 8DPSK modes have been tested, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case GFSK_2402MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

FCC Test Report Page 12 of 50

Test Voltage: AC 120V/60Hz Test Power Line: Neutral Remark: 90.0 dBw/ 90 70 60 50 No. Frequency (MHz) Reading (MHz) S,000 No. (MHz) Reading (MHz) S,000 No. (MHz) Reading (MHz) S,000 1 0,2265 28.41 9.63 38.04 62.58 24.54 QP P 2 0,2265 12.93 9.63 22.56 52.58 30.02 AVG P 3 * 0,7035 31.93 9.62 41.55 56.00 -14.45 QP P 4 0,7035 16.55 9.62 26.17 46.00 -19.83 AVG P	
Test Power Line: Neutral Remark: 90.0 dBuV 60 70 60 10 10 10 10 10 10 10 10 1	
Remark: 90.0 dBuV 70 60 50 10 0.150 0.500 (MHz) 5,000 (MHz) 6,000	
90.0 dBuV 80 70 60 10 No. Frequency (MHz) (dBuV) (dBu	
80 70 60 50 10 0.150 0.500 (MHz) 5.000 (MHz) 5.000 No. Frequency (MHz) (ABUV)	
70 60 50 40 30 20 10 0.150 0.500 (MHz) 5.000 No. Frequency (MHz) (dBuV)	
70 60 50 40 30 20 10 0.150 0.500 (MHz) 5.000 No. Frequency (MHz) (dBuV)	
FCC Part15 CE-Class B FCC	
50 40 30 20 10 0.150 0.500 0.600 0.150 0.500 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.60000 0.6000 0.6000 0.6000 0.6000 0.60000 0.60000 0.60000 0	
No. Frequency (MHz) 5.000 No. V(MHz) (ABUV)	IP.
No. Frequency Reading Factor (dBuV)	We
30 20 10 0 -10 0.150 0.500 (MHz) 5.000 No. Frequency (MHz) (MHz) 1 0.2265 28.41 9.63 38.04 62.58 -24.54 QP P 2 0.2265 12.93 9.63 22.56 52.58 -30.02 AVG P 3 * 0.7035 31.93 9.62 41.55 56.00 -14.45 QP P 4 0.7035 16.55 9.62 26.17 46.00 -19.83 AVG P	
20 10 0.150 0.500 (MHz) 5.000 No. Frequency (MHz) (dBuV) (dB) (dBuV) (d	11
20 10 0 -10 0.150 0.500 (MHz) 5.000 No. Frequency (MHz) (dBuV) (dB) (dBuV) (dB	 1 2
No. Frequency (MHz) Reading (dBuV) Factor (dBuV) Level (dBuV) Limit (dBuV) Margin (dBuV) Detector P/F Remark 1 0.2265 28.41 9.63 38.04 62.58 -24.54 QP P 2 0.2265 12.93 9.63 22.56 52.58 -30.02 AVG P 3 * 0.7035 31.93 9.62 41.55 56.00 -14.45 QP P 4 0.7035 16.55 9.62 26.17 46.00 -19.83 AVG P	
No. Frequency (MHz) Reading (dBuV) Factor (dBuV) Level (dBuV) Limit (dBuV) Margin (dBuV) Detector P/F Remark 1 0.2265 28.41 9.63 38.04 62.58 -24.54 QP P 2 0.2265 12.93 9.63 22.56 52.58 -30.02 AVG P 3 * 0.7035 31.93 9.62 41.55 56.00 -14.45 QP P 4 0.7035 16.55 9.62 26.17 46.00 -19.83 AVG P	
No. Frequency (MHz) Reading (dBuV) Factor (dBuV) Level (dBuV) Limit (dBuV) Margin (dBuV) Detector P/F Remark 1 0.2265 28.41 9.63 38.04 62.58 -24.54 QP P 2 0.2265 12.93 9.63 22.56 52.58 -30.02 AVG P 3 * 0.7035 31.93 9.62 41.55 56.00 -14.45 QP P 4 0.7035 16.55 9.62 26.17 46.00 -19.83 AVG P	peak
No. Frequency (MHz) Reading (dBuV) Factor (dBuV) Level (dBuV) Limit (dBuV) Margin (dB) Detector P/F Remark 1 0.2265 28.41 9.63 38.04 62.58 -24.54 QP P 2 0.2265 12.93 9.63 22.56 52.58 -30.02 AVG P 3 * 0.7035 31.93 9.62 41.55 56.00 -14.45 QP P 4 0.7035 16.55 9.62 26.17 46.00 -19.83 AVG P	AVG
No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) Detector P/F Remark	30.000
No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) Detector P/F Remark 1	
1 0.2265 28.41 9.63 38.04 62.58 -24.54 QP P 2 0.2265 12.93 9.63 22.56 52.58 -30.02 AVG P 3 * 0.7035 31.93 9.62 41.55 56.00 -14.45 QP P 4 0.7035 16.55 9.62 26.17 46.00 -19.83 AVG P	
3 * 0.7035 31.93 9.62 41.55 56.00 -14.45 QP P 4 0.7035 16.55 9.62 26.17 46.00 -19.83 AVG P	
4 0.7035 16.55 9.62 26.17 46.00 -19.83 AVG P	
5 1.6845 24.16 10.04 34.20 56.00 -21.80 QP P	
6 1.6845 11.13 10.04 21.17 46.00 -24.83 AVG P	
7 3.0615 22.84 10.09 32.93 56.00 -23.07 QP P	
8 3.0615 11.53 10.09 21.62 46.00 -24.38 AVG P	
9 7.9530 21.05 10.25 31.30 60.00 -28.70 QP P	
10 7.9530 12.24 10.25 22.49 50.00 -27.51 AVG P	
11 22.0290 22.15 10.41 32.56 60.00 -27.44 QP P	
12 22.0290 17.11 10.41 27.52 50.00 -22.48 AVG P	

FCC Test Report Page 13 of 50

Test 1	Plot	ts and Data	of Conduc	ted Emissi	ons						
Tested Mode: TM1											
Test Voltage: AC 120V/60Hz											
Test	Pow	ver Line:	Live	· ·							
Rema	Remark:										
90.0	d	ßu∀									
80											
70											
60										FCC Part15 CE-Cla	ss B_QP
50										FCC Part15 CE-Cla	ss B_AVe
40		1		5							
			MAAA	A.A.A.A.A.A.	الاراد المالية	Lagrange Maria	7		<u>.</u>	9	11 X2
30	,	*	A A MANA		the think the state of the stat	A AND AND A SHAPE	Way Are	And Mary of		TO THE STATE OF TH	
20 10				Martha Caellana	A STATE OF THE STA	Margaret Land Market Strange	Carried Control		\		peak
0								+			AVG
-10 0	150					(MHz)			100		30.000
U.	130		0.5	UU		(MIIZ)		5.0	JUU		30.000
No).	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1		0.1860	30.68	9.01	39.69	64.21	-24.52	QP	Р		
2		0.1860	14.29	9.01	23.30	54.21	-30.91	AVG	Р		
3		0.3165	26.67	9.78	36.45	59.80	-23.35	QP	Р		
4		0.3165	11.98	9.78	21.76	49.80	-28.04	AVG	Р		
5	*	0.6945	30.05	9.84	39.89	56.00	-16.11	QP	Р		
6	\perp	0.6945	15.04	9.84	24.88	46.00	-21.12	AVG	Р		
7	\perp	3.0570	23.43	10.11	33.54	56.00	-22.46	QP	Р		
8	\perp	3.0570	15.53	10.11	25.64	46.00	-20.36	AVG	Р		
9		7.9485	23.24	10.20	33.44	60.00	-26.56	QP	Р		
10	\rightarrow	7.9485	14.81	10.20	25.01	50.00	-24.99	AVG	Р		
11	_	22.0200	22.83	10.44	33.27	60.00	-26.73	QP	Р		
12		22.0200	18.18	10.44	28.62	50.00	-21.38	AVG	Р		

FCC Test Report Page 14 of 50

5. Radiated Emissions

5.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Report No: SSP23090157-2E

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

For any and of any indication (MHz)	Radiated emissions (3m)				
Frequency of emission (MHz)	Quasi-peak (dBuV/m)				
30-88	40				
88-216	43.5				
216-960	46				
Above 960	54				
Note: The more stringent limit applies at transition frequencies.					

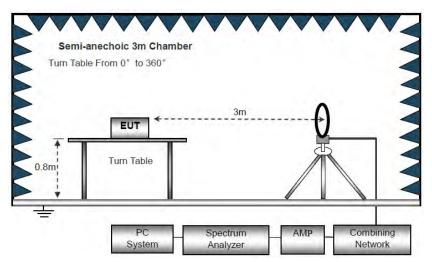
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

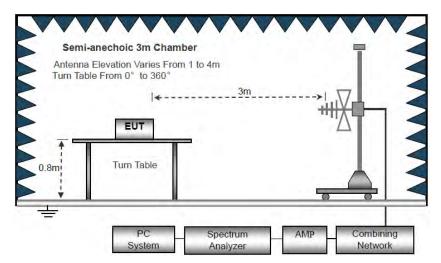
5.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.

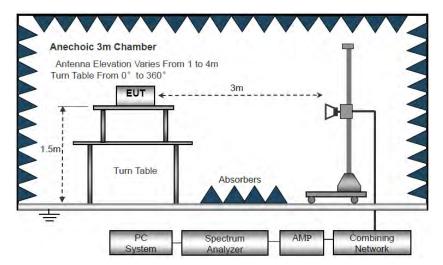
FCC Test Report Page 15 of 50



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

FCC Test Report Page 16 of 50

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range blew 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

Report No: SSP23090157-2E

- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz

VBW ≥ RBW, Sweep = auto

Detector function = peak

Trace = max hold

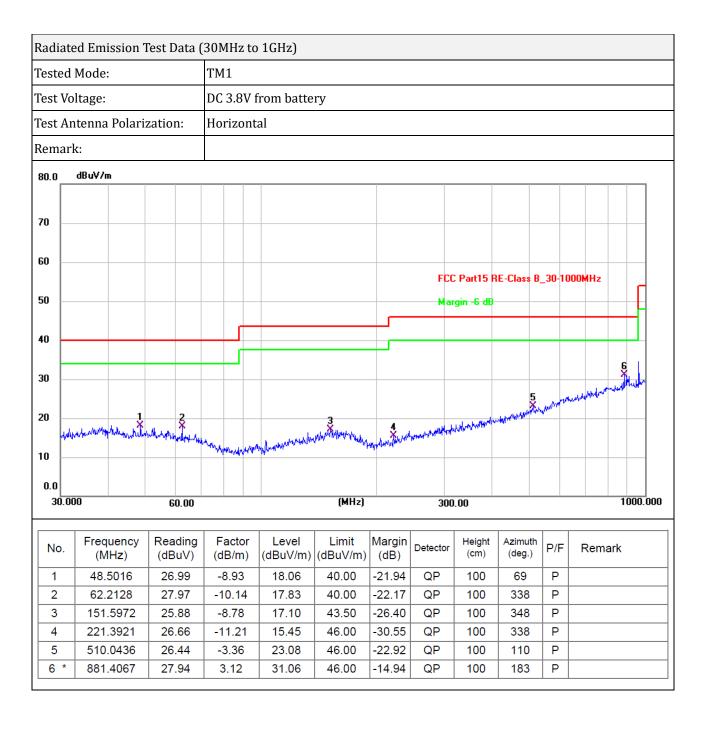
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.
- f) For the actual test configuration, please refer to the related item EUT test photos.

5.3 Test Data and Results

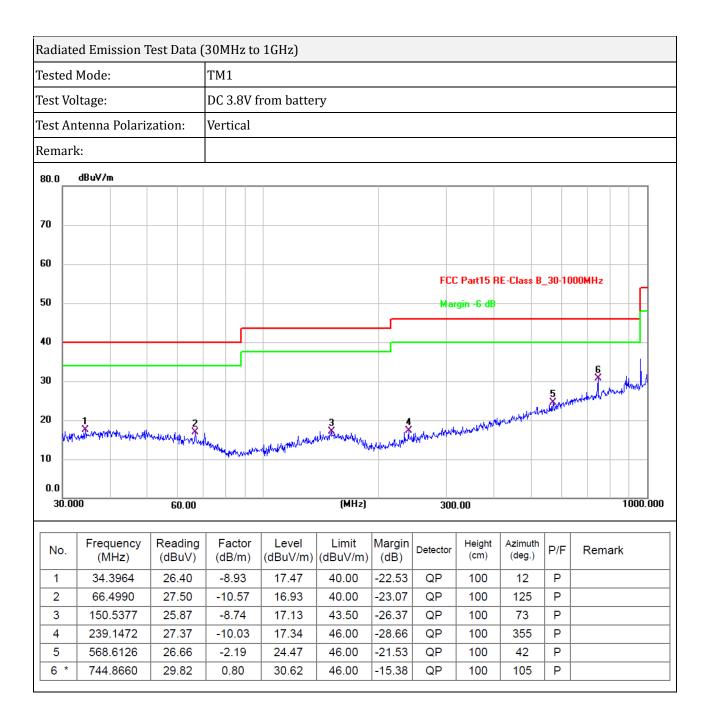
All of the GFSK, $\pi/4$ DQPSK and 8DPSK modes have been tested, the EUT complied with the FCC Part 15.247 standard limit for a wireless device, and with the worst case GFSK_2402MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

FCC Test Report Page 17 of 50



FCC Test Report Page 18 of 50



FCC Test Report Page 19 of 50

Radiated Emi	ission Test Dat	a (Above 1GH	z)				
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
		Lo	west Channel (GFSK_2402M	Hz)		
4804	76.32	-14.72	61.6	74	-12.4	Н	PK
4804	62.48	-14.72	47.76	54	-6.24	Н	AV
7206	64.6	-8.41	56.19	74	-17.81	Н	PK
7206	46.94	-8.41	38.53	54	-15.47	Н	AV
4804	74.66	-14.72	59.94	74	-14.06	V	PK
4804	59.67	-14.72	44.95	54	-9.05	V	AV
7206	65.12	-8.41	56.71	74	-17.29	V	PK
7206	50.09	-8.41	41.68	54	-12.32	V	AV
		Mi	ddle Channel (GFSK_2441Ml	Hz)		
4882	76.46	-14.64	61.82	74	-12.18	Н	PK
4882	62.92	-14.64	48.28	54	-5.72	Н	AV
7323	65.77	-8.28	57.49	74	-16.51	Н	PK
7323	45.7	-8.28	37.42	54	-16.58	Н	AV
4882	76.46	-14.64	61.82	74	-12.18	V	PK
4882	58.38	-14.64	43.74	54	-10.26	V	AV
7323	65.66	-8.28	57.38	74	-16.62	V	PK
7323	48.49	-8.28	40.21	54	-13.79	V	AV
		Hig	hest Channel ((GFSK_2480M	Hz)		
4960	74.92	-14.53	60.39	74	-13.61	Н	PK
4960	62.52	-14.53	47.99	54	-6.01	Н	AV
7440	62.64	-8.13	54.51	74	-19.49	Н	PK
7440	48.22	-8.13	40.09	54	-13.91	Н	AV
4960	73.67	-14.53	59.14	74	-14.86	V	PK
4960	59.9	-14.53	45.37	54	-8.63	V	AV
7440	65.14	-8.13	57.01	74	-16.99	V	PK
7440	50.31	-8.13	42.18	54	-11.82	V	AV

Note 1: All of the GFSK, $\pi/4$ DQPSK and 8DPSK modes have been tested. This EUT was tested in 3 orthogonal positions and the worst case position data of GFSK was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

FCC Test Report Page 20 of 50

6. Band-edge Emissions(Radiated)

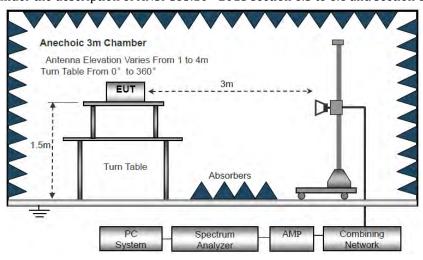
6.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Report No: SSP23090157-2E

6.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, than mark the higher-level emission for comparing with the FCC rules.

6.3 Test Data and Results

All of the GFSK, $\pi/4$ DQPSK and 8DPSK modes have been tested, the EUT complied with the FCC Part 15.247 standard limit, and with the worst case GFSK as below:

FCC Test Report Page 21 of 50

Test Mode	Frequency	Limit	Result	
rest Mode	MHz	dBuV/dBc	Result	
Lavyagt	2310.00	<54 dBuV	Pass	
Lowest	2390.00	<54 dBuV	Pass	
Highost	2483.50	<54 dBuV	Pass	
Highest	2500.00	<54 dBuV	Pass	

Radiated Emission Test Data (Band edge emissions)									
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector		
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV		
		Lo	west Channel (GFSK_2402MI	Hz)				
2310	65.41	-21.34	44.07	74	-29.93	Н	PK		
2310	51.23	-21.34	29.89	54	-24.11	Н	AV		
2390	65.82	-20.96	44.86	74	-29.14	Н	PK		
2390	51.49	-20.96	30.53	54	-23.47	Н	AV		
2400	72.69	-20.91	51.78	74	-22.22	Н	PK		
2400	56.94	-20.91	36.03	54	-17.97	Н	AV		
2310	65.95	-21.34	44.61	74	-29.39	V	PK		
2310	51.82	-21.34	30.48	54	-23.52	V	AV		
2390	69	-20.96	48.04	74	-25.96	V	PK		
2390	49.1	-20.96	28.14	54	-25.86	V	AV		
2400	67.07	-20.91	46.16	74	-27.84	V	PK		
2400	55.2	-20.91	34.29	54	-19.71	V	AV		
		Hig	hest Channel ((GFSK_2480M)	Hz)				
2483.50	71.72	-20.51	51.21	74	-22.79	Н	PK		
2483.50	52.48	-20.51	31.97	54	-22.03	Н	AV		
2500	64.58	-20.43	44.15	74	-29.85	Н	PK		
2500	52.92	-20.43	32.49	54	-21.51	Н	AV		
2483.50	68	-20.51	47.49	74	-26.51	V	PK		
2483.50	54.69	-20.51	34.18	54	-19.82	V	AV		
2500	67.55	-20.43	47.12	74	-26.88	V	PK		
2500	51.64	-20.43	31.21	54	-22.79	V	AV		

Remark: Level = Reading + Factor, Margin = Level - Limit

FCC Test Report Page 22 of 50

7. Frequency Hopping System

7.1 Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Report No: SSP23090157-2E

- (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.
- (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

7.2 Test Procedure

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for DA 00-705 and FCC Part 15.247 rule.

FCC Test Report Page 23 of 50

7.3 Test Data and Results

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

Report No: SSP23090157-2E

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

FCC Test Report Page 24 of 50

8. Dwell Time

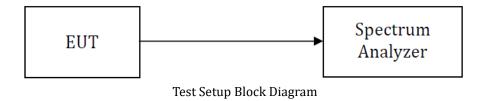
8.1 Standard and Limit

According to 15.247 (a)(1)(iii), Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed..

Report No: SSP23090157-2E

8.2 Test Procedure

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Spectrum Setting: RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
- 3) Use video trigger with the trigger level set to enable triggering only on full pulses.
- 4) Sweep Time is more than once pulse time.
- 5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- 6) Measure the maximum time duration of one single pulse.
- 7) Set the EUT for packet transmitting.
- 8) Measure the maximum time duration of one single pulse.
- 9) The EUT was set to the Hopping Mode for Dwell Time Test.



FCC Test Report Page 25 of 50

8.3 Test Data and Results

Test Mode	Data Packet	Channel (MHz)	Pulse Duration (ms)	Dwell Time (ms)	Limit (ms)	Result
	DH1	2441	0.373	119.36	<400	Pass
GFSK	DH3	2441	1.621	259.36	<400	Pass
	DH5	2441	2.868	305.92	<400	Pass
	2DH1	2441	0.38	121.60	<400	Pass
Pi/4 DQPSK	2DH3	2441	1.628	260.48	<400	Pass
	2DH5	2441	2.88	307.20	<400	Pass
8DPSK	3DH1	2441	0.38	121.60	<400	Pass
	3DH3	2441	1.63	260.80	<400	Pass
	3DH5	2441	2.879	307.09	<400	Pass

Report No: SSP23090157-2E

Note:

- 1. A period time = 0.4 (s) * 79 = 31.6(s)
- 2. DH1 time slot = Pulse Duration * (1600/(2*79)) * A period time DH3 time slot = Pulse Duration * (1600/(4*79)) * A period time DH5 time slot = Pulse Duration * (1600/(6*79)) * A period time
- 3. For GFSK, $\pi/4$ -DQPSK and 8DPSK: The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

FCC Test Report Page 26 of 50



FCC Test Report Page 27 of 50

8DPSK (2441MHz) Burst(3DH1) Burst(3DH3) Burst(3DH5) Ref Offset 1.71 dB Ref 20.00 dBm

FCC Test Report Page 28 of 50

9. Maximum Peak Conducted Output Power

9.1 Standard and Limit

According to 15.247(b)(1). For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Report No: SSP23090157-2E

9.2 Test Procedure

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 2MHz, VBW = 6MHz, Sweep = Auto, Detector = RMS.
- 4) Measure the highest amplitude appearing on spectral display and mark the value.
- 5) Repeat the above procedures until all frequencies measured were complete.

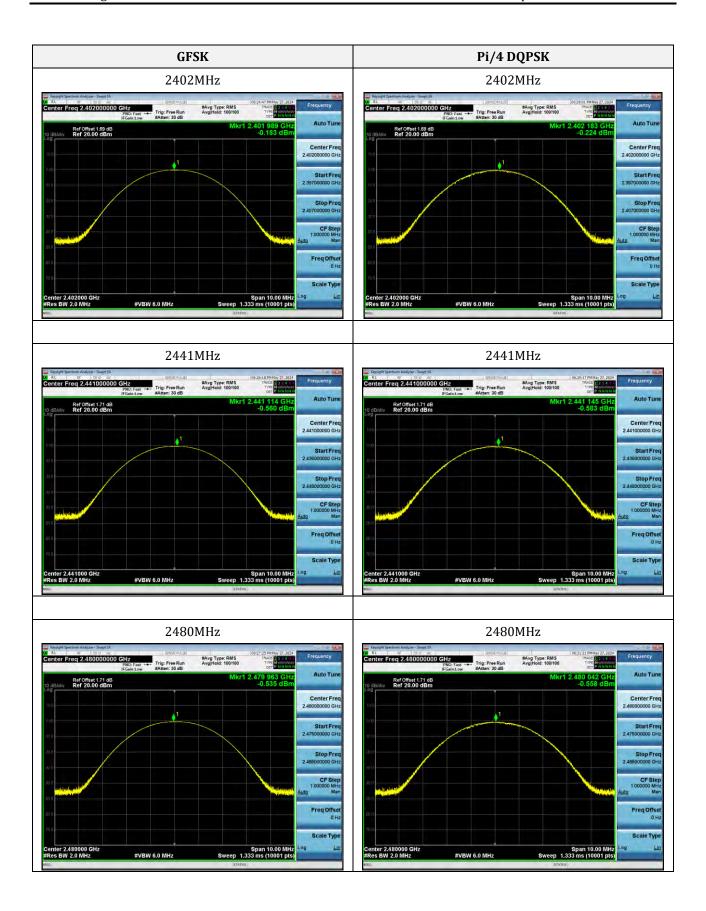


Test Setup Block Diagram

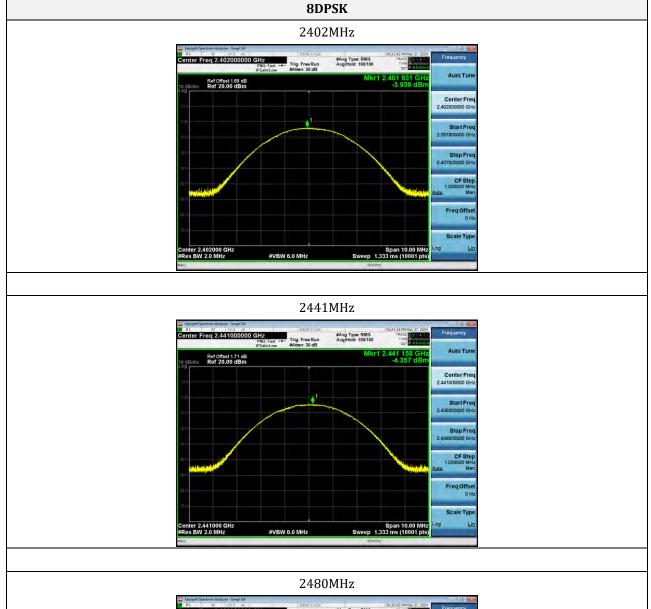
9.3 Test Data and Results

Test Mode	Test Channel Conducted Output Power MHz (dBm)		Limit (dBm)	Test Result
	2402	-0.18	21	Pass
GFSK	2441	-0.56	21	Pass
	2480	-0.54	21	Pass
	2402	-0.22	21	Pass
Pi/4 DQPSK	2441	-0.58	21	Pass
	2480	-0.56	21	Pass
	2402	-3.94	21	Pass
8DPSK	2441	-4.36	21	Pass
	2480	-4.26	21	Pass

FCC Test Report Page 29 of 50



FCC Test Report Page 30 of 50





FCC Test Report Page 31 of 50

10. Occupied Bandwidth(-20dB)

10.1 Standard and Limit

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Report No: SSP23090157-2E

10.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 30kHz, VBW = 100kHz, Sweep = Auto.
- 4) Set a reference level on the measuring instrument equal to the highest peak value.
- 5) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- 6) Repeat the above procedures until all frequencies measured were complete.



10.3 Test Data and Results

FCC Test Report Page 32 of 50

Report No: SSP23090157-2E

FCC Test Report Page 33 of 50



FCC Test Report Page 34 of 50



FCC Test Report Page 35 of 50

11. Carrier Frequencies Separation

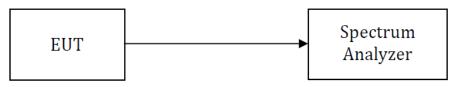
11.1 Standard and Limit

According to FCC 15.247(a)(1), frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, and frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

Report No: SSP23090157-2E

11.2 Test Procedure

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 30kHz, VBW = 100kHz, Sweep = Auto, Detector = RMS.
- 4) By using the Max Hold function, record the separation of two adjacent channels.
- 5) Measure the frequency difference of these two adjacent channels by spectrum analyzer mark function. and then plot the result on the screen of the spectrum analyzer.
- 6) Repeat above procedures until all frequencies measured were complete.



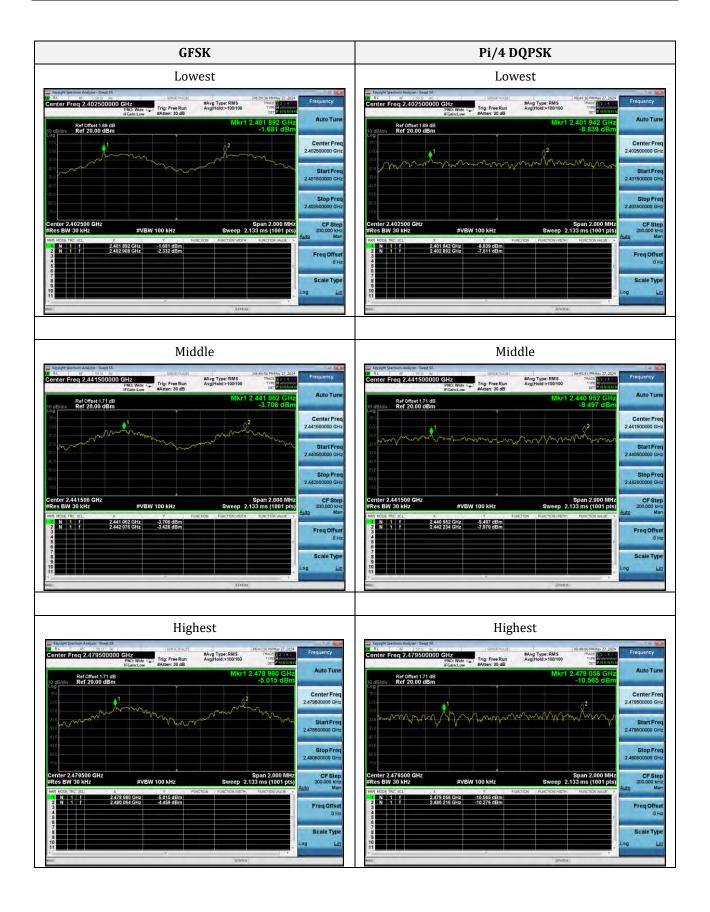
Test Setup Block Diagram

11.3 Test Data and Results

Test Mode	Test Channel	Test Freq. 1	Test Freq. 2	CFS	Limit
		(MHz)	(MHz)	(MHz)	(MHz)
	Lowest	2401.892	2402.908	1.016	0.626
GFSK	Middle	2441.062	2442.076	1.014	0.624
	Highest	2478.98	2480.064	1.084	0.633
	Lowest	2401.942	2402.892	0.95	0.856
Pi/4 DQPSK	Middle	2440.952	2442.234	1.282	0.841
	Highest	2479.056	2480.216	1.16	0.869
	Lowest	2401.896	2402.89	0.994	0.783
8DPSK	Middle	2441.014	2441.914	0.9	0.843
	Highest	2479.04	2479.976	0.936	0.829

Note: CFS(Channel Frequency Separation) = Test Freq. 2 - Test Freq. 1

FCC Test Report Page 36 of 50



FCC Test Report Page 37 of 50



FCC Test Report Page 38 of 50

12. Number of Hopping Channel

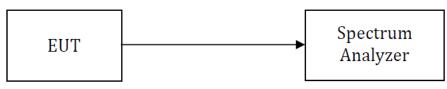
12.1 Standard and Limit

According to FCC 15.247(a)(1), frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, and frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

Report No: SSP23090157-2E

12.2 Test Procedure

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = RMS.
- 4) Set the spectrum analyzer on Max hold mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- 5) Set the spectrum analyzer on View mode and then plot the result on the screen of the spectrum analyzer.
- 6) Repeat the above procedures until all frequencies measured were complete.



Test Setup Block Diagram

12.3 Test Data and Results

Test Mode	Number of Hopping Channel	Limit	Test Result
GFSK	79	15	Pass
Pi/4 DQPSK	79	15	Pass
8DPSK	79	15	Pass

FCC Test Report Page 39 of 50



FCC Test Report Page 40 of 50

13. Band-edge Emission(Conducted)

13.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Report No: SSP23090157-2E

13.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.10.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = RMS.
- 4) Measure the highest amplitude appearing on spectral display and set it as a reference level.
- 5) Set a convenient frequency span including 100 kHz bandwidth from band edge.
- 6) Measure the emission and marking the edge frequency.
- 7) Repeat above procedures until all frequencies measured were complete.

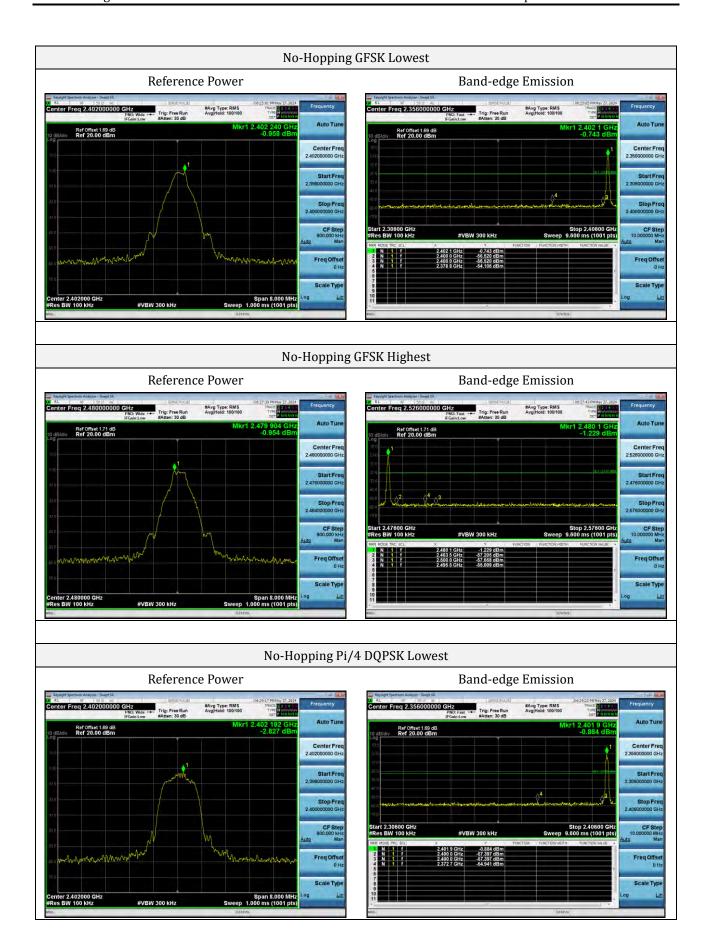


13.3 Test Data and Results

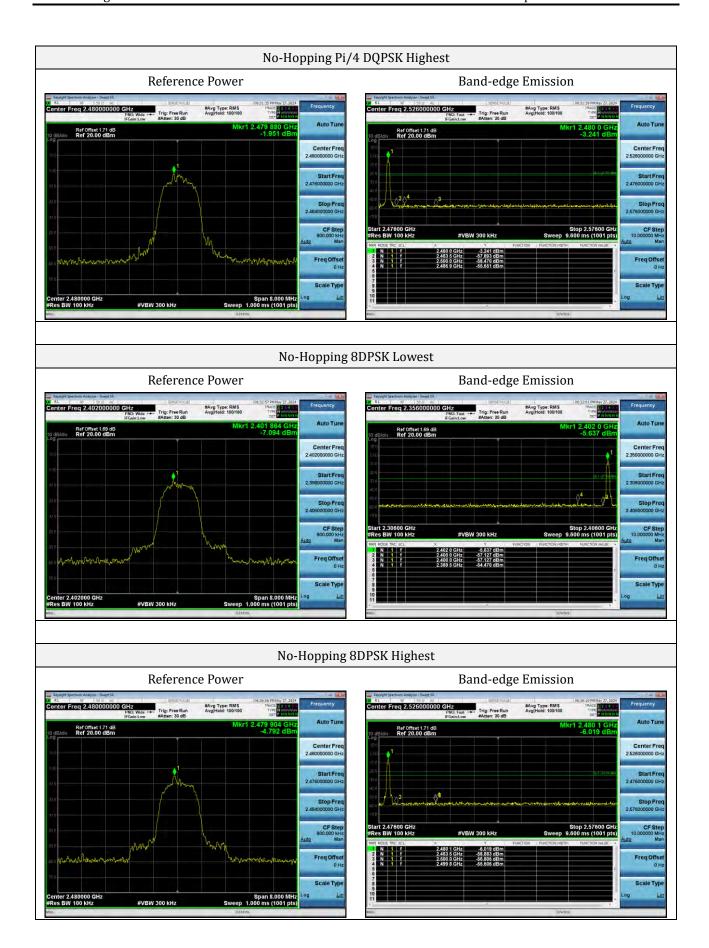
FCC Test Report Page 41 of 50

Test Mode	Band-edge	Test Channel (MHz)	Max. Value (dBc)	Limit (dBc)	Test Result	
No-Hopping						
GFSK -	Lowest	2402	-53.14	-20	Pass	
	Highest	2480	-54.05	-20	Pass	
Pi/4 DQPSK	Lowest	2402	-52.11	-20	Pass	
	Highest	2480	-53.7	-20	Pass	
8DPSK	Lowest	2402	-47.37	-20	Pass	
	Highest	2480	-50.81	-20	Pass	
Hopping						
GFSK -	Lowest	2402	-53.9	-20	Pass	
	Highest	2480	-53.24	-20	Pass	
Pi/4 DQPSK	Lowest	2402	-53.17	-20	Pass	
	Highest	2480	-51.55	-20	Pass	
8DPSK	Lowest	2402	-53.84	-20	Pass	
	Highest	2480	-53.36	-20	Pass	

FCC Test Report Page 42 of 50



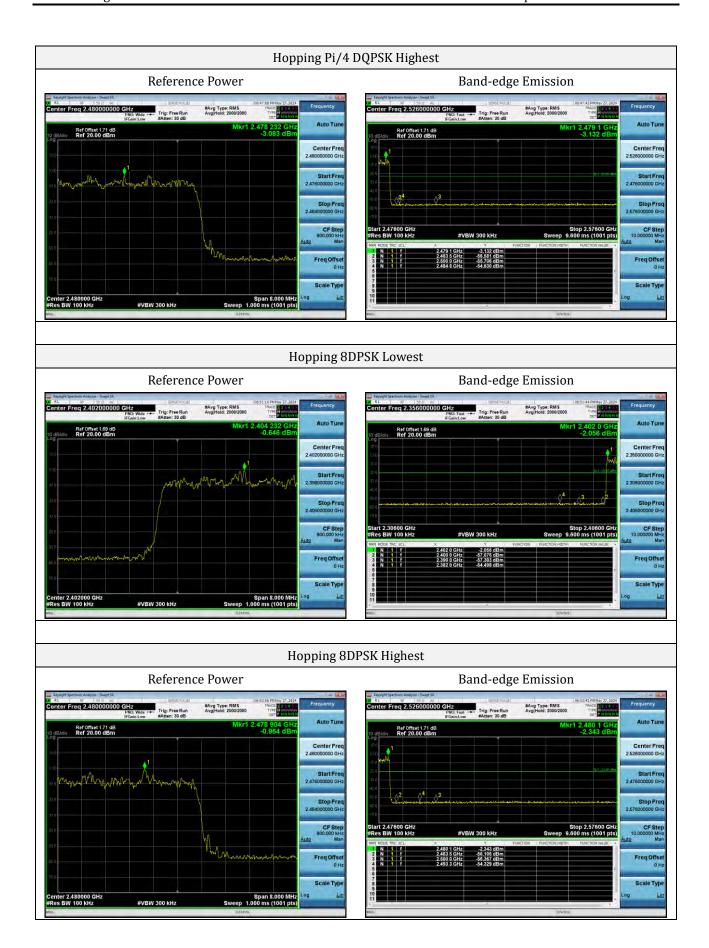
FCC Test Report Page 43 of 50



FCC Test Report Page 44 of 50



FCC Test Report Page 45 of 50



FCC Test Report Page 46 of 50

14. Conducted RF Spurious Emissions

14.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Report No: SSP23090157-2E

14.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.7.

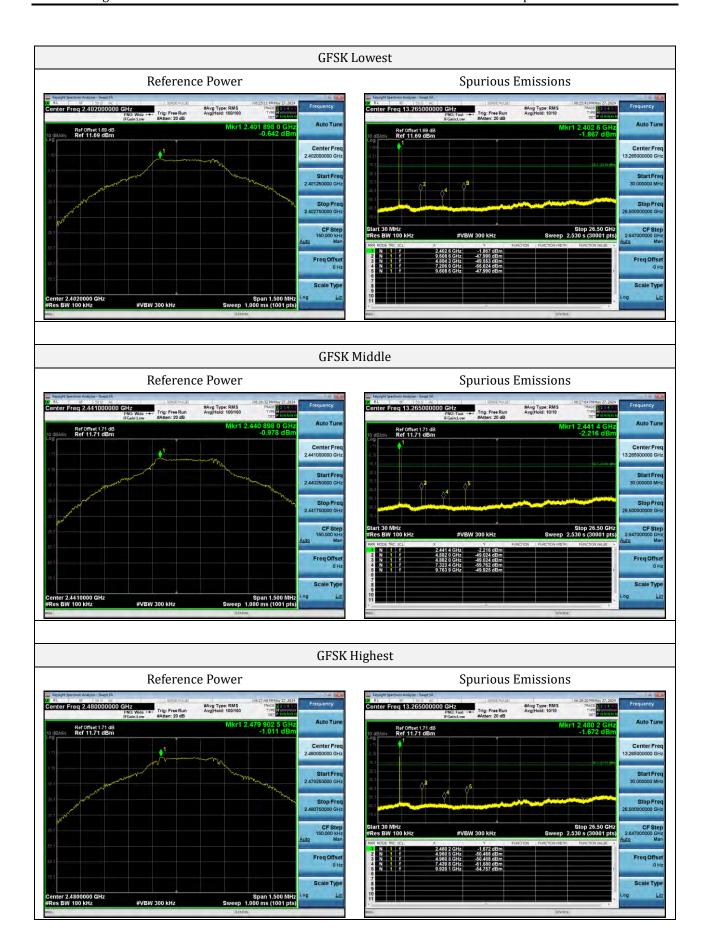
- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = RMS.
- 4) Measure the highest amplitude appearing on spectral display and set it as a reference level.
- 5) Measure the spurious emissions with frequency range from 9kHz to 26.5GHz.
- 6) Repeat above procedures until all measured frequencies were complete.



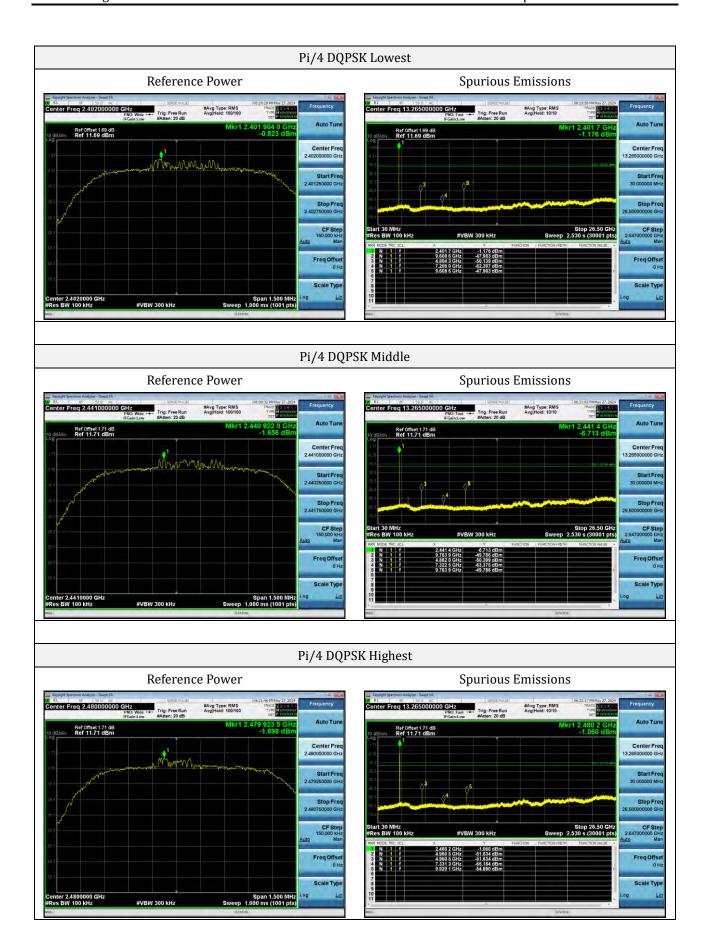
14.3 Test Data and Results

Note: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions measurement data.

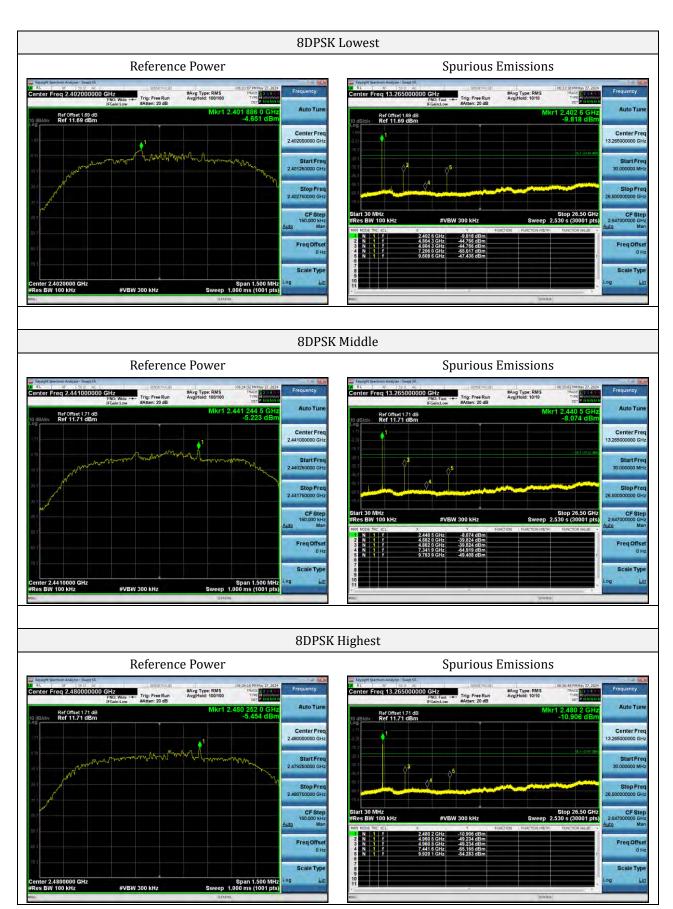
FCC Test Report Page 47 of 50



FCC Test Report Page 48 of 50



FCC Test Report Page 49 of 50



***** END OF REPORT *****

FCC Test Report Page 50 of 50