Microtest
微测检测

Test Report

FCC ID: 2ALVE-PMO

Date of issue: Apr. 24, 2017

Sample Description:	BLUETOOTH HEADSET
Model(s):	PMO SOUNDBAND, PMO SOUNDBAND BK, PMO SOUNDBAND RE, PMO SOUNDBAND WH, PMO SOUNDBAND GL, PMO SOUNDBAND SV, PMO SOUNDBAND RG
Applicant:	TRI-A Technology and Consulting Co.,Ltd.
Address:	Room 802, No.1009, Yishan Road, Xuhui District, Shanghai, 200233 China
Date of Test:	Apr. 18, 2017 to Apr. 24, 2017

Shenzhen Microtest Co., Ltd.
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Address: No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China

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Test Result Certification	
Applicant's name:	**TRI-A Technology and Consulting Co.,Ltd.**
Address:	Room 802, No.1009, Yishan Road, Xuhui District, Shanghai, 200233 China
Manufacture's Name:	**Dongguan Sambon Electronics Co., Ltd.**
Address:	No.2-52, Xihu Industry Area, Lincun Village, Tangxia Town, Dongguan City, Guangdong Province, China
Product name:	BLUETOOTH HEADSET
Trademark:	N/A
Model name:	PMO SOUNDBAND, PMO SOUNDBAND BK, PMO SOUNDBAND RE, PMO SOUNDBAND WH, PMO SOUNDBAND GL, PMO SOUNDBAND SV, PMO SOUNDBAND RG
Standards:	FCC Part 15.247
Test Procedure:	ANSI C63.10-2013 FCC public notice DA 00-705

This device described above has been tested by Shenzhen Toby Technology Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by: Sangdi Huang

Sangdi Huang Apr. 24, 2017

Reviewed by: Leon Chen

Leon Chen Apr. 24, 2017

Approved by: Tom Xue

Tom Xue Apr. 24, 2017

Summary of Test Result

Item	FCC Part No.	Description of Test	Result
1	15.203	Antenna requirement	Pass
2	15.207	AC power line conducted emission	Pass
3	15.247(b)(1)	Peak output power	Pass
4	15.247(a)(1)	20dB emission bandwidth	Pass
5	15.247(a)(1)	Carrier frequency separation	Pass
6	15.247(a)1	Number of hopping channel	Pass
7	15.247(a)(1)	Time of occupancy (dwell time)	Pass
8	15.247(d)	Band edge spurious emission, conducted spurious emission	Pass
9	15.247(d), 15.205, 15.209	Radiated emission	Pass

1 General description

1.1 Feature of equipment under test (EUT)

Product name:	BLUETOOTH HEADSET
Model name:	PMO SOUNDBAND, PMO SOUNDBAND BK, PMO SOUNDBAND RE, PMO SOUNDBAND WH, PMO SOUNDBAND GL, PMO SOUNDBAND SV, PMO SOUNDBAND RG
Tx/Rx frequency range:	Tx/Rx: 2402MHz~2480MHz
Bluetooth version:	V4.1 Dual mode
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Power Source:	DC 3.7V form Li-ion battery
Antenna designation:	Chip antenna (Antenna Gain: 1.25dBi)

1.2 Operation channel list

Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz
1	2403MHz	21	2423MHz	41	2443MHz
---	---	---	---	---	---
---	---	---	---	---	---
18	2420MHz	38	2440MHz	77	2479MHz
19	2421MHz	39	2441MHz	78	2480MHz

1.3 Test Frequency Channel

Low	2402MHz
Middle	2441MHz
High	2480MHz

1.4 EUT operation mode

During testing, RF test program provided by the manufacture to control the Tx operation followed the test requirement.

1.5 Test conditions

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

- Temperature: 20ºC~30ºC
- Humidity: 30%~70%
- Atmospheric pressure: 98kPa~101kPa

1.6 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
Adapter	HW-050200U01	/	HUAWEI	FCC VOC

1.7 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

2 Testing site

Test Site	Shenzhen Toby Technology Co., Ltd.
Test Site Location	1 A/F., Bldg.6, Yusheng Industrial Zone The National Road No.107 Xixiang Section 467, Shenzhen, Guangdong, China
FCC Registration No.:	811562
CNAS Registration No.:	CNAS L5813

3 List of test equipment

For AC power line conducted emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
LISN	R&S	ENV216	101313	2017.12.06
LISN	SCHWARZBECK	NNLK 8129	8129245	2017.12.25
Pulse Limiter	SCHWARZBECK	VTSD 9561F	9716	2017.12.25
Test Cable	N/A	N/A	C01	2017.12.06
EMI Test Receiver	R&S	ESCI	101160	2017.12.06

For Radiated emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
Log-Bicon Antenna	MESS-ELEKTRONIK	VULB 9160	3058	2017.12.11
Horn Antenna	Schwarzbeck	BBHA 9120D	631	2017.12.05
Horn Antenna	Schwarzbeck	BBHA 9170	373	2017.12.05
Test Cable	United Microwave	57793	1m	2017.12.05
Test Cable	United Microwave	A30A30-5006	10m	2017.12.05
Microwave Pre-amplifier	Agilent	8449B	3008A01714	2017.12.05
Pre-Amplifier	Anritsu	MH648A	M09961	2017.12.05
EMI Test Receiver	R&S	ESPI-7	101318	2017.12.05
Spectrum analyzer	Agient	E4470B	MY41441082	2017.06.01
Spectrum analyzer	Agilent	N9020A	MY49100060	2018/03/03

For RF conducted emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
EMI Test Receiver	R&S	ESCI	101160	2017.12.06

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4 Test Result

4.1 Antenna requirement

4.1.1 Requirement defined in FCC 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.1.2 EUT antenna description

The antenna of EUT is a permanently attached Chip antenna; the maximum gain of the antenna is 1.25dBi. So the antenna meets the requirement of this part.

4.2 Conducted emission

4.2.1. Limit

Frequency (MHz)	Limit	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency from 0.15MHz to 0.5MHz.

4.2.2. Test method

1. 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.

2. 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.

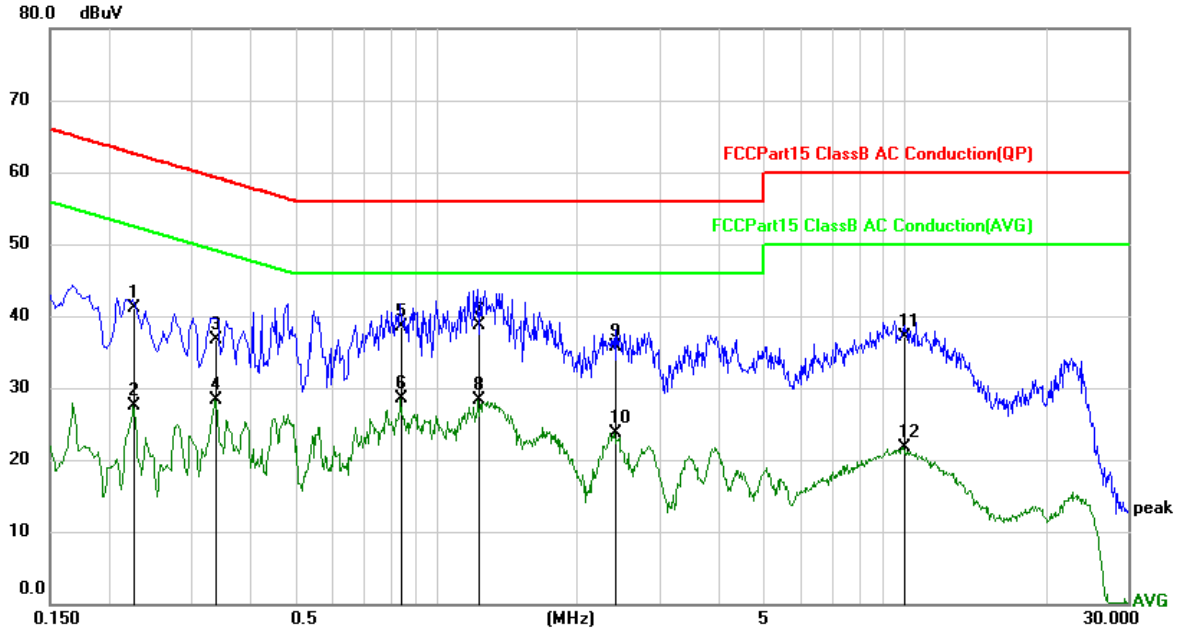
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

4. LISN is at least 80 cm from nearest part of EUT chassis.

5. The resolution bandwidth of EMI test receiver is set at 9kHz.

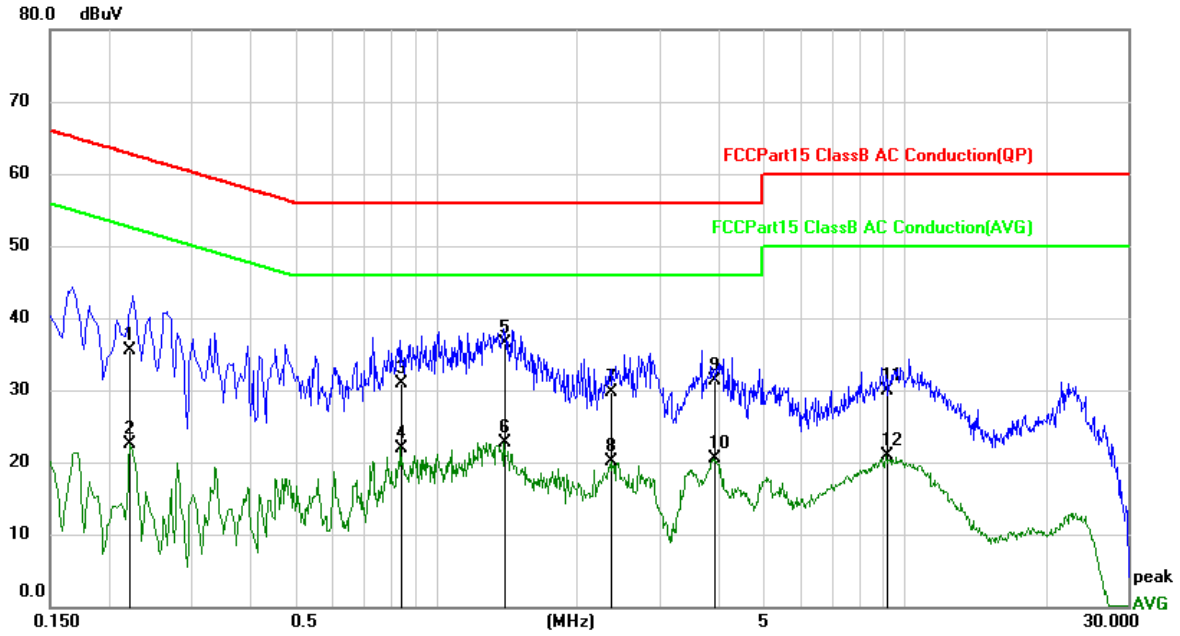
4.2.3. Test Result

Temperature:	26℃	Relative Humidity:	47%
Pressure:	101kPa	Polarization:	L
Test voltage:	AC 120V/60Hz	Test mode:	Transmitting



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2265	41.18	-0.03	41.15	62.58	-21.43	QP	
2		0.2265	27.62	-0.03	27.59	52.58	-24.99	AVG	
3		0.3390	36.74	-0.03	36.71	59.23	-22.52	QP	
4		0.3390	28.31	-0.03	28.28	49.23	-20.95	AVG	
5		0.8427	38.48	-0.03	38.45	56.00	-17.55	QP	
6		0.8427	28.61	-0.03	28.58	46.00	-17.42	AVG	
7	*	1.2338	38.70	-0.04	38.66	56.00	-17.34	QP	
8		1.2338	28.36	-0.04	28.32	46.00	-17.68	AVG	
9		2.4089	35.72	-0.05	35.67	56.00	-20.33	QP	
10		2.4089	23.68	-0.05	23.63	46.00	-22.37	AVG	
11		9.9192	37.26	-0.09	37.17	60.00	-22.83	QP	
12		9.9192	21.73	-0.09	21.64	50.00	-28.36	AVG	

Temperature:	26℃	Relative Humidity:	47%
Pressure:	101kPa	Polarization:	N
Test voltage:	AC 120V/60Hz	Test mode:	Transmitting



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2220	35.57	-0.03	35.54	62.74	-27.20	QP	
2		0.2220	22.52	-0.03	22.49	52.74	-30.25	AVG	
3		0.8427	30.95	-0.03	30.92	56.00	-25.08	QP	
4		0.8427	22.03	-0.03	22.00	46.00	-24.00	AVG	
5	*	1.4008	36.63	-0.04	36.59	56.00	-19.41	QP	
6		1.4008	22.75	-0.04	22.71	46.00	-23.29	AVG	
7		2.3593	29.82	-0.05	29.77	56.00	-26.23	QP	
8		2.3593	20.18	-0.05	20.13	46.00	-25.87	AVG	
9		3.9209	31.38	-0.05	31.33	56.00	-24.67	QP	
10		3.9209	20.50	-0.05	20.45	46.00	-25.55	AVG	
11		9.1317	29.90	-0.07	29.83	60.00	-30.17	QP	
12		9.1317	20.91	-0.07	20.84	50.00	-29.16	AVG	

4.3 Peak output power

4.3.1 Limits

Conducted peak output power limit is 125mW (21dBm)

4.3.2 Test Method

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
RBW > the 20 dB bandwidth of the emission being measured
VBW ≥RBW
Sweep = auto
Detector function = peak
Trace = max hold

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.

4.3.3 Test Result

GFSK

Frequency (MHz)	Peak output power (dBm)	Limit (dBm)
2402	-1.692	21
2441	-0.097	21
2480	-1.434	21

π/4-DQPSK

Frequency (MHz)	Peak output power (dBm)	Limit (dBm)
2402	-4.517	21
2441	-2.962	21
2480	-4.226	21

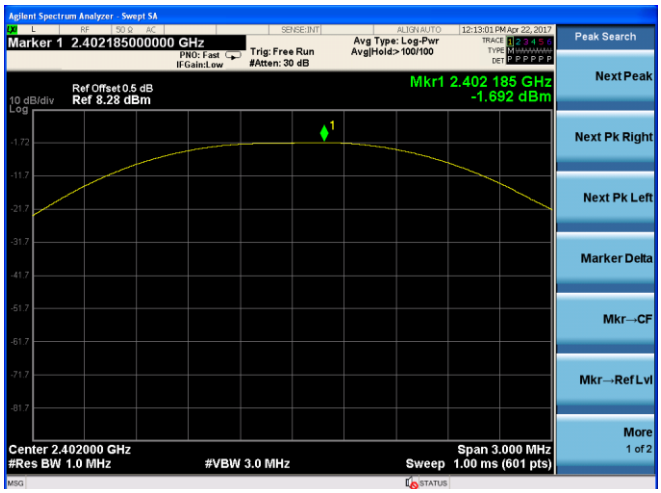
8DPSK

Frequency (MHz)	Peak output power (dBm)	Limit (dBm)
2402	-4.337	21
2441	-2.934	21
2480	-4.183	21

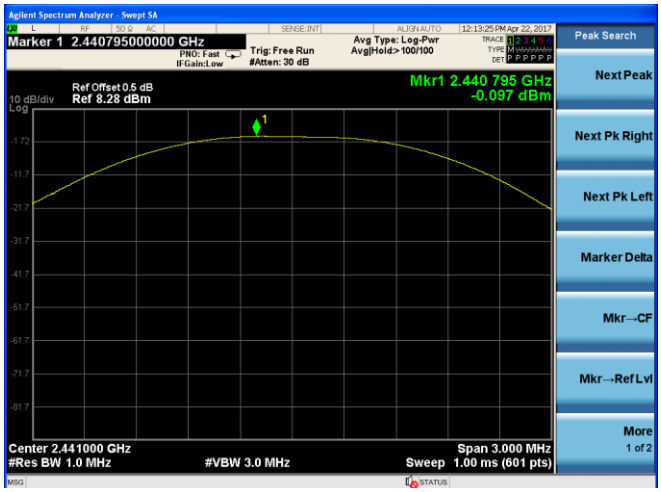
Test plots as below

GFSK

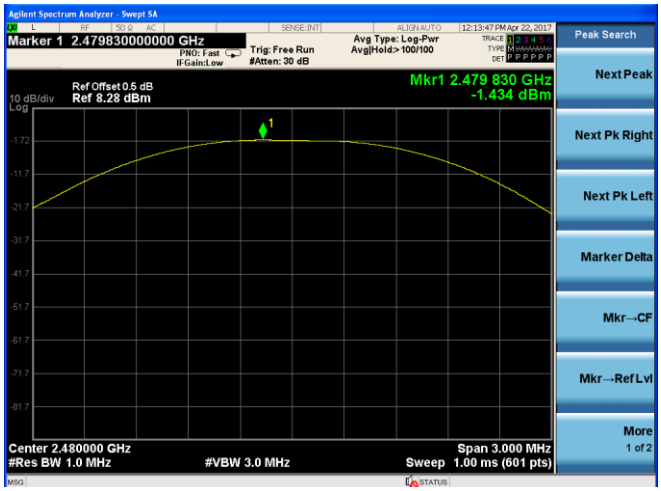
2402MHz



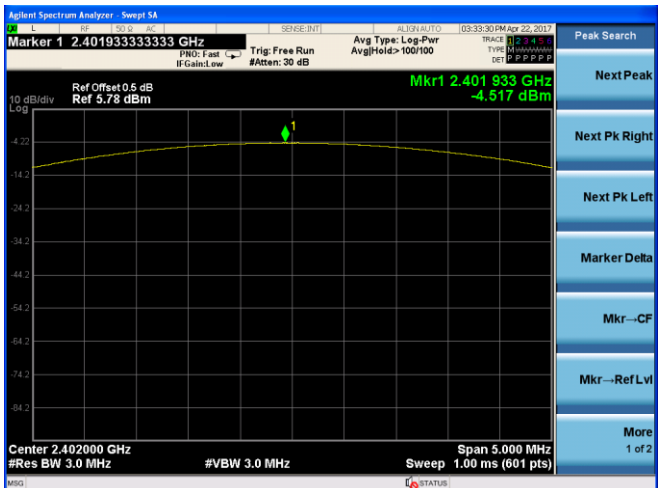
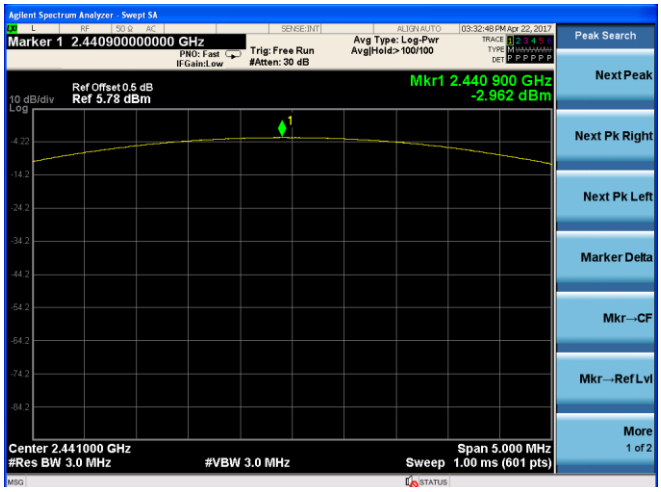
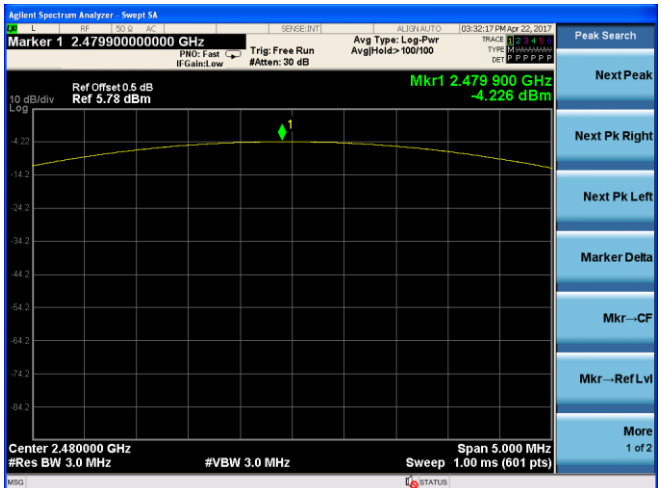
2441MHz



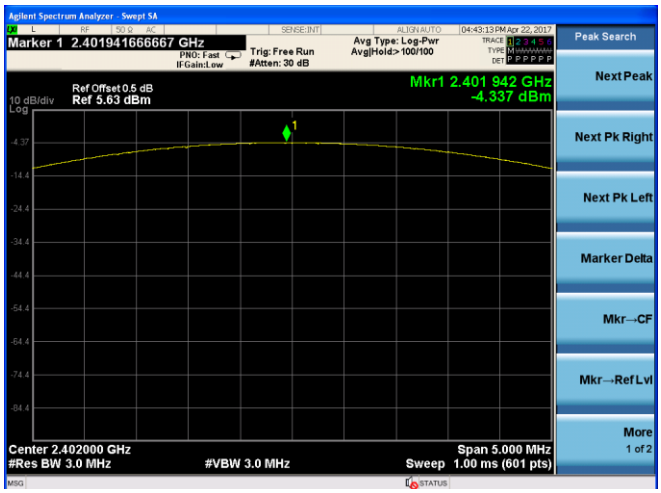
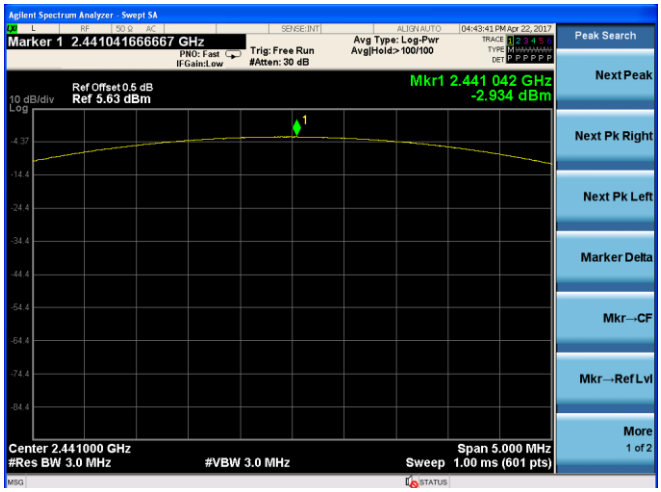
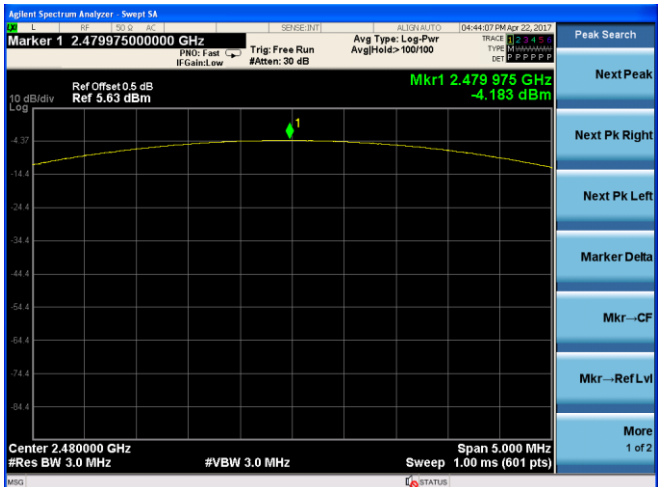
2480MHz



π /4-DQPSK

2402MHz

2441MHz

2480MHz


8DPSK

2402MHz

2441MHz

2480MHz


4.4 20dB emission bandwidth

4.4.1 Test method

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW ≥ 1% of the 20 dB bandwidth
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission.

4.4.2 Test result

GFSK

Frequency (MHz)	20dB emission bandwidth (MHz)
2402	0.9104
2441	0.8856
2480	0.8869

π/4-DQPSK

Frequency (MHz)	20dB emission bandwidth (MHz)
2402	1.211
2441	1.218
2480	1.216

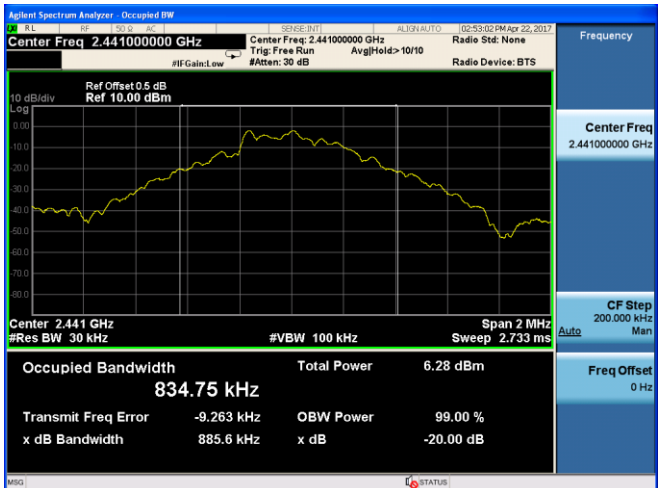
8DPSK

Frequency (MHz)	20dB emission bandwidth (MHz)
2402	1.206
2441	1.208
2480	1.208

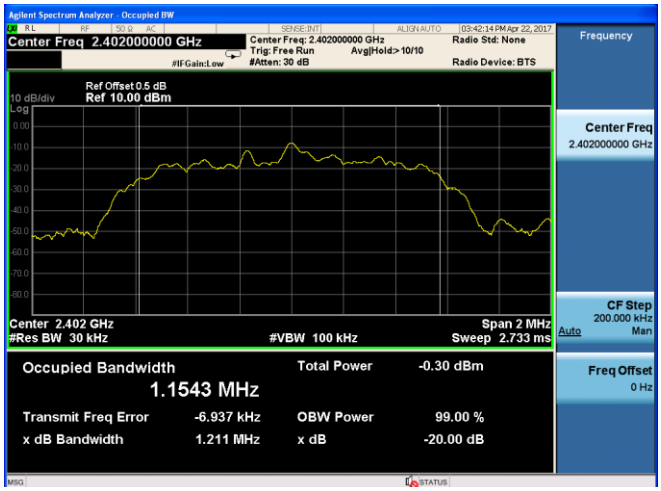
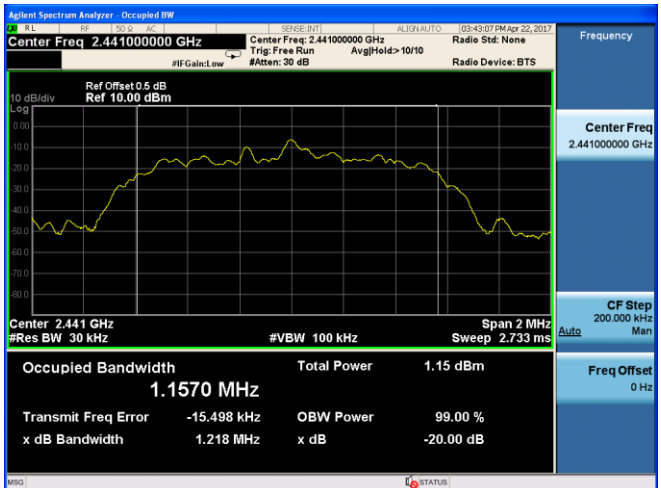
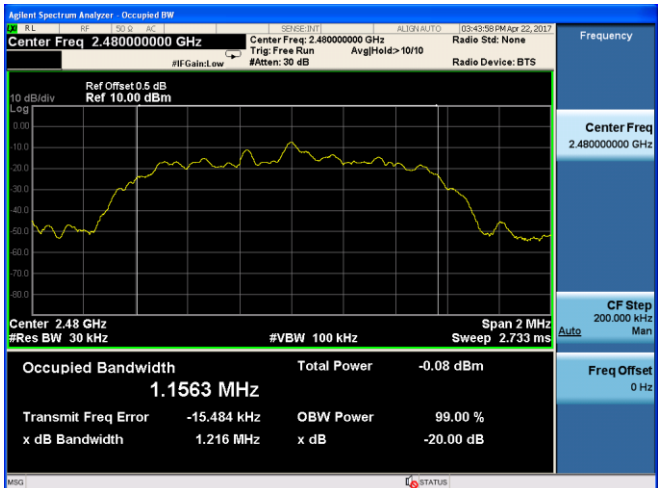
Test plots as below

GFSK

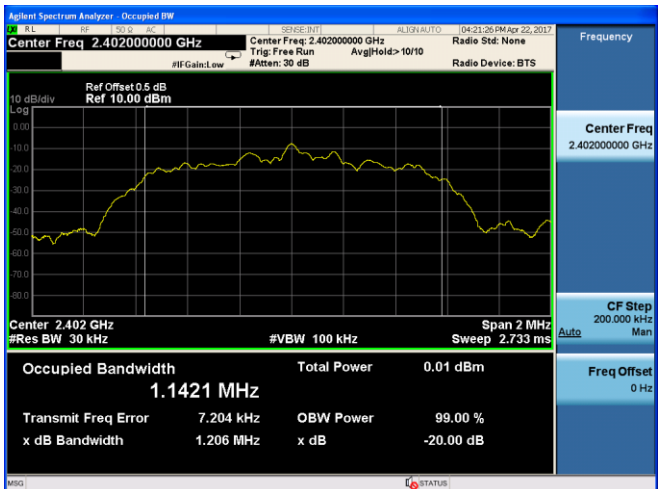
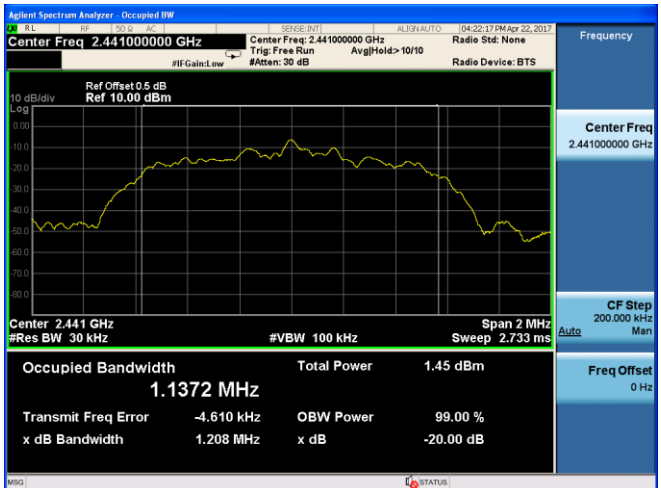
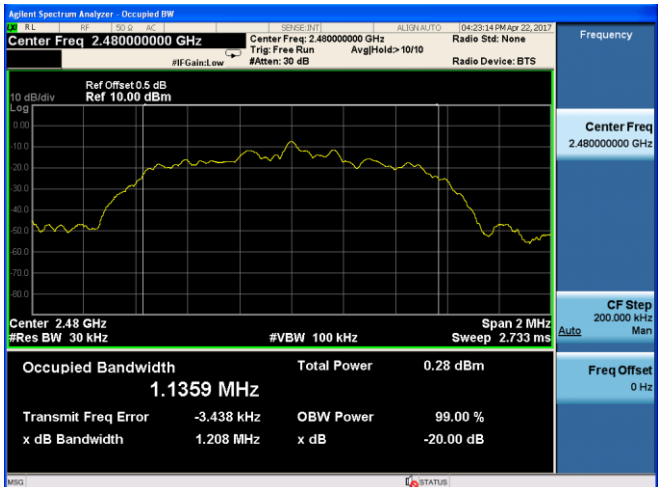
2402MHz

2441MHz

2480MHz


π/4-DQPSK

2402MHz

2441MHz

2480MHz


8DPSK

2402MHz

2441MHz

2480MHz


4.5 Carrier frequency separation

4.5.1 Limits

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, whichever is greater.

4.5.2 Test method

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels
Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span
Video Bandwidth (VBW) ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

4.5.3 Test result

GFSK

Channels (MHz)	Separation (MHz)	Limit (MHz)
2402-2403	1.105	0.607
2441-2442	1.05	0.590
2479-2480	1.105	0.591

π/4-DQPSK

Channels (MHz)	Separation (MHz)	Limit (MHz)
2402-2403	1.06	0.807
2441-2442	1.065	0.812
2479-2480	1.06	0.811

8DPSK

Channels (MHz)	Separation (MHz)	Limit (MHz)
2402-2403	1.06	0.804
2441-2442	1.065	0.805
2479-2480	1.055	0.805

GFSK

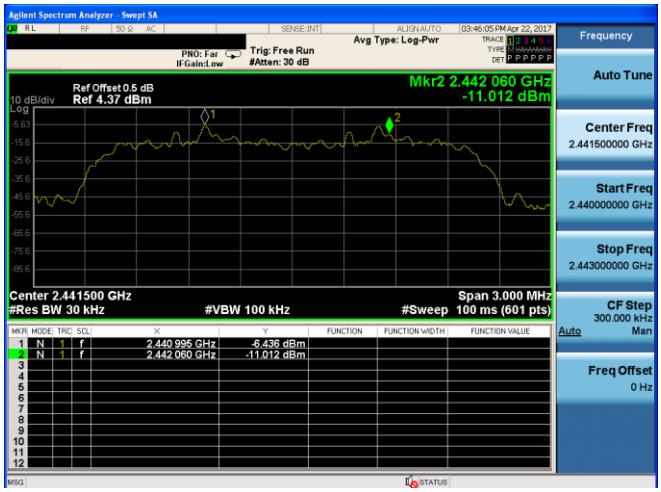
2402MHz~2403MHz

2441MHz~2442MHz

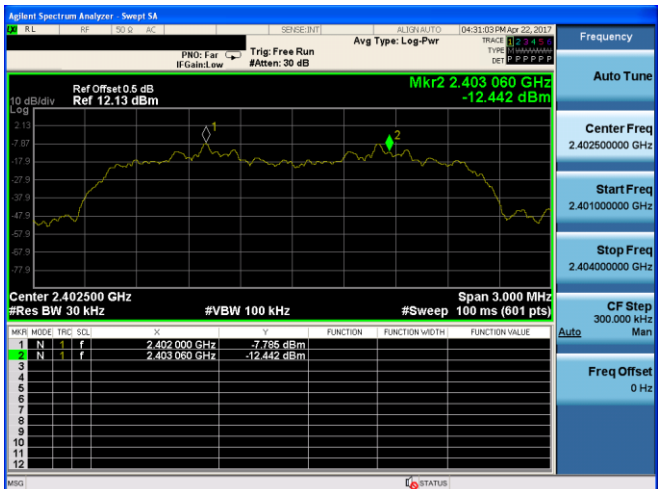
2479MHz~2480MHz

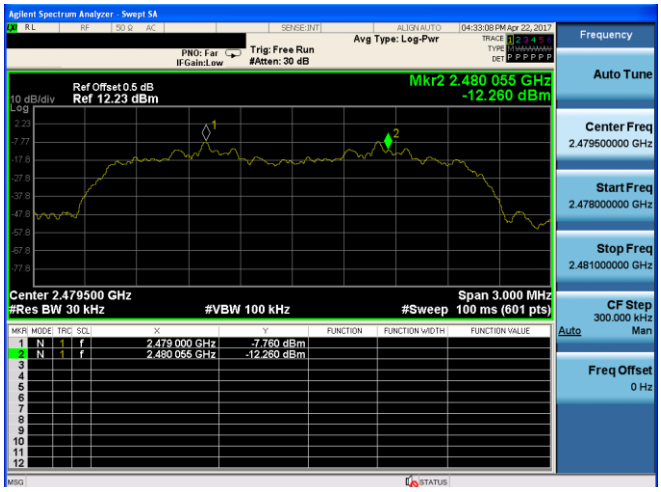

π/4-DQPSK

2402MHz~2403MHz

2441MHz~2442MHz

2479MHz~2480MHz


8DPSK

2402MHz~2403MHz

2441MHz~2442MHz

2479MHz~2480MHz


4.6 Number of hopping channel

4.6.1 Limits

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

4.6.2 Test method

The EUT must have its hopping function enabled. Use the following spectrum analyser settings:

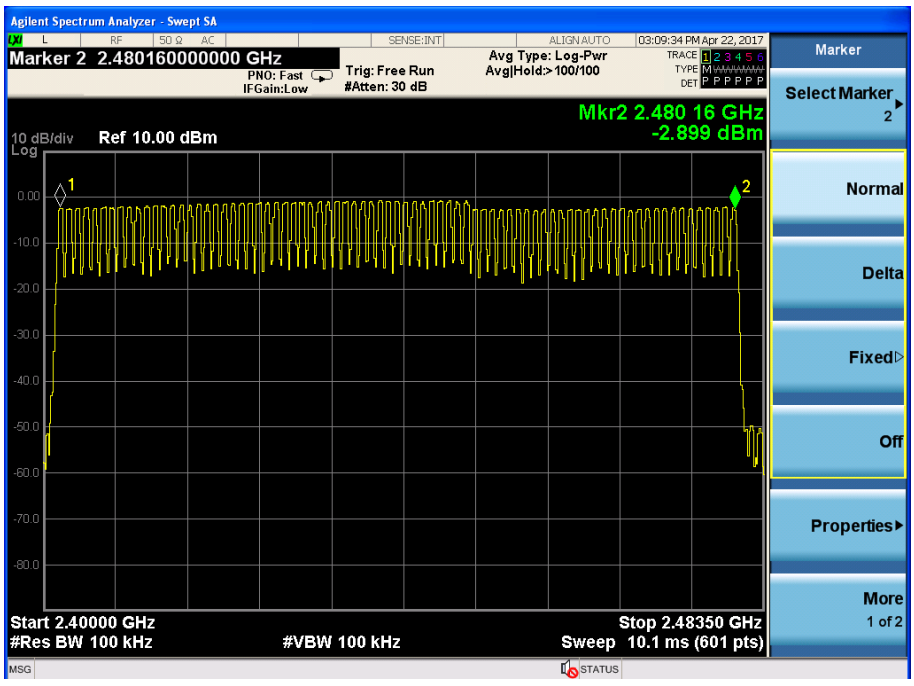
Span = the frequency band of operation
RBW ≥1% of the span
VBW ≥RBW
Sweep = auto
Detector function = peak
Trace = max hold

Allow the trace to stabilize. It

4.6.3 Test Result

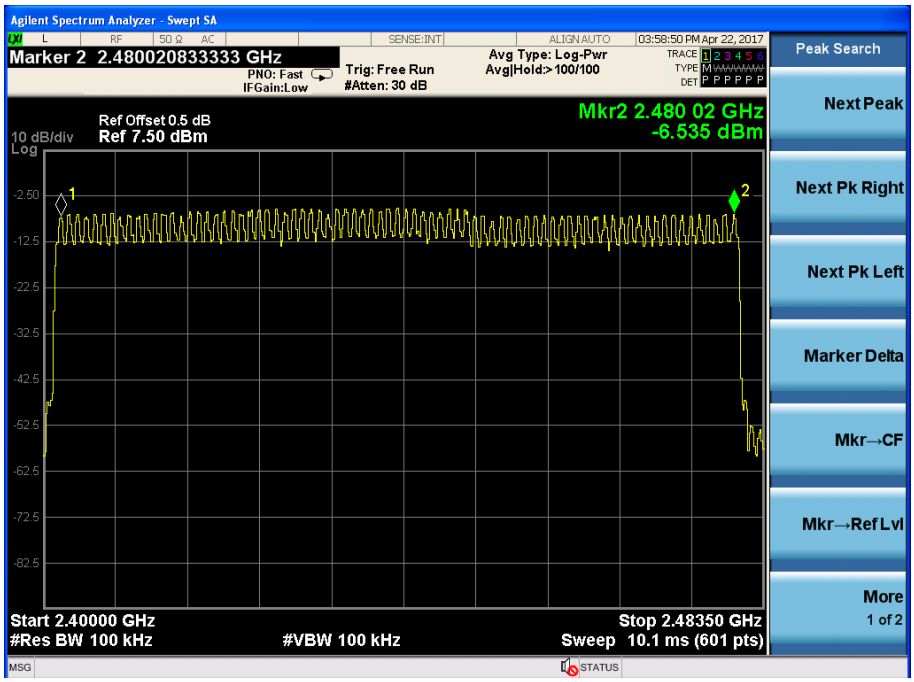
GFSK

Number of hopping channels	79



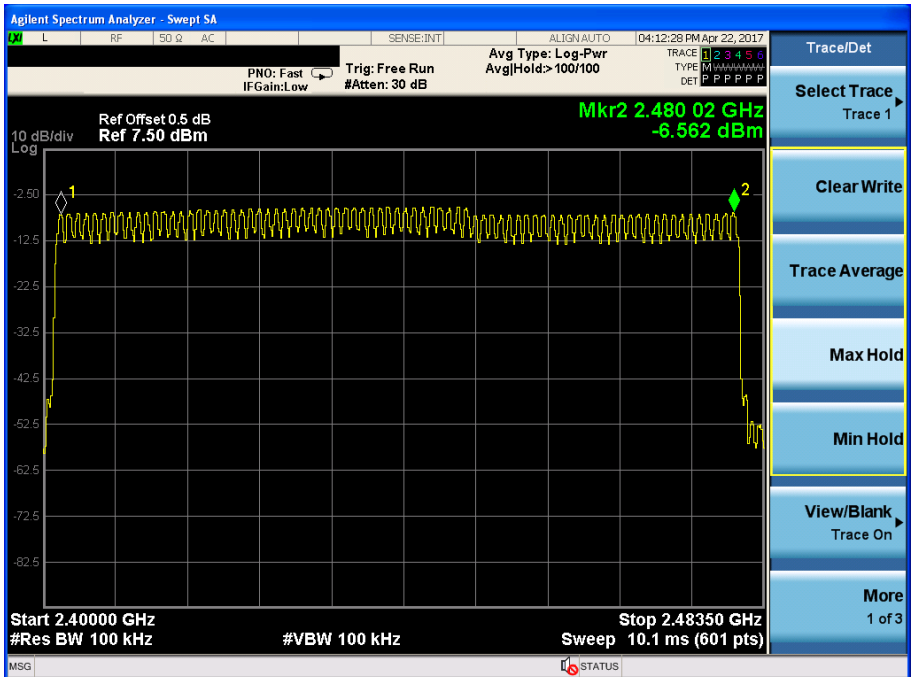
π/4-DQPSK

Number of hopping channels	79



8DPSK

Number of hopping channels	79



4.7 Time of occupancy (dwell time)

4.7.1 Limit

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.

4.7.2 Test method

The EUT must have its hopping function enabled. Use the following spectrum analyser settings:

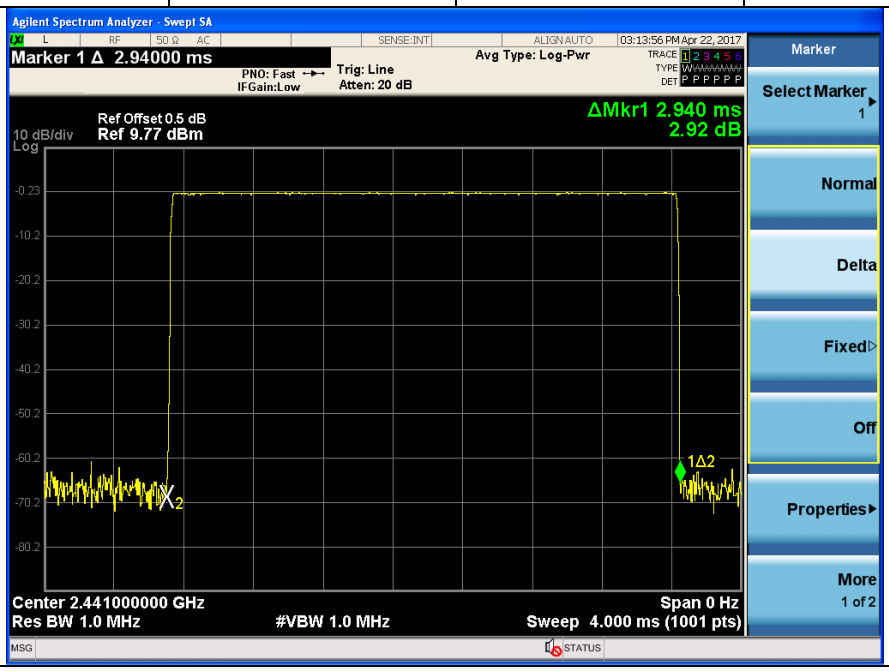
Span = zero span, centered on a hopping channel
RBW = 1 MHz
VBW ≥RBW
Sweep = as necessary to capture the entire dwell time per hopping channel
Detector function = peak
Trace = max hold

Use the marker-delta function to determine the dwell time.

4.7.3 Test Result

GFSK

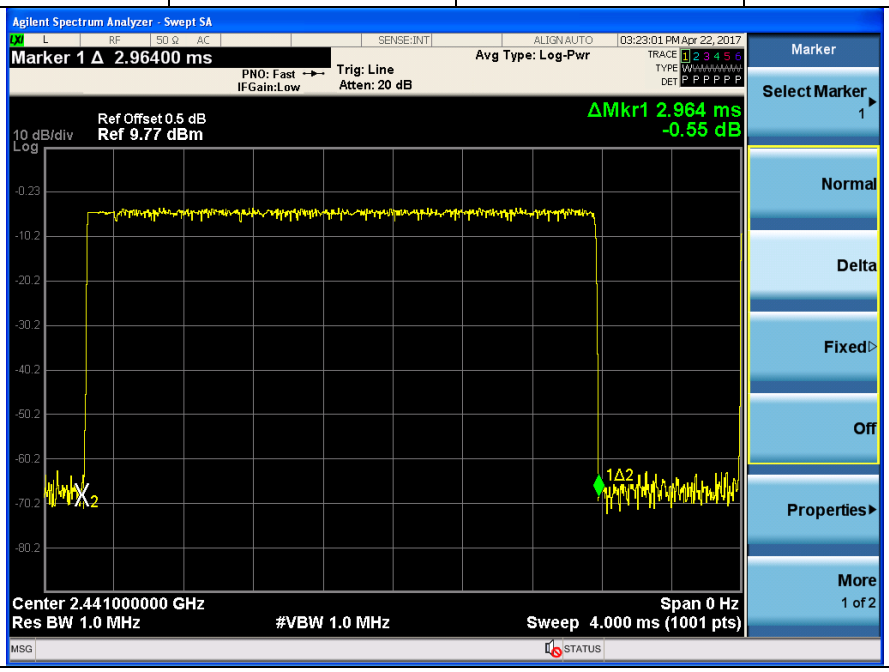
Packet type	Pulse Duration (ms)	Dwell time (s)	Limit (s)
DH5	2.94	0.314	0.4



Note: for the worst mode of DH5 packet type, in normal hopping mode, hopping rate is 1600hops/s with 6 slots in 79 hopping channel

π/4-DQPSK

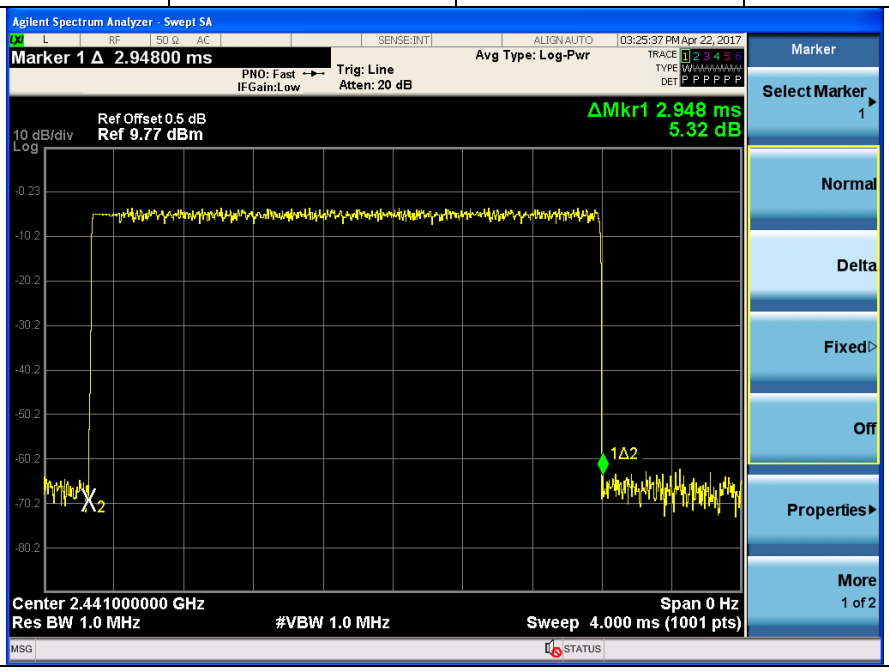
Packet type	Pulse Duration (ms)	Dwell time (s)	Limit (s)
DH5	2.964	0.316	0.4



Note: for the worst mode of DH5 packet type, in normal hopping mode, hopping rate is 1600hops/s with 6 slots in 79 hopping channel

8DPSK

Packet type	Pulse Duration (ms)	Dwell time (s)	Limit (s)
DH5	2.948	0.314	0.4



Note: for the worst mode of DH5 packet type, in normal hopping mode, hopping rate is 1600hops/s with 6 slots in 79 hopping channel

4.8 Band edge emission

4.8.1 Limit

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.

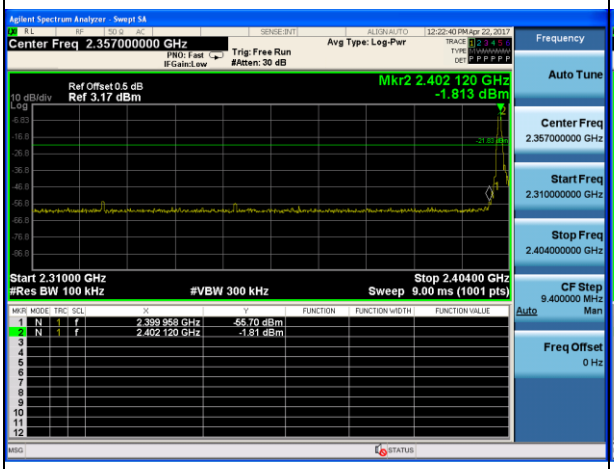
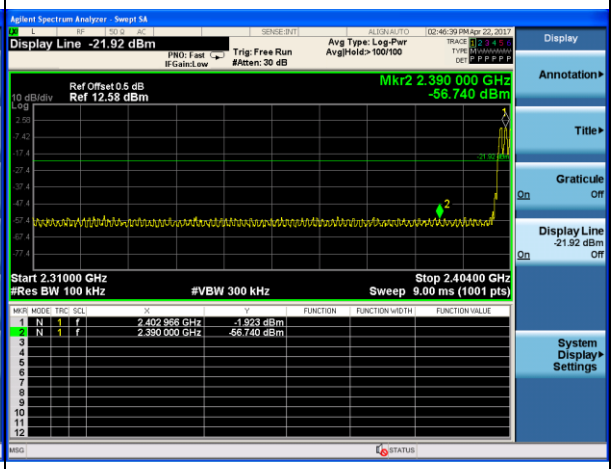
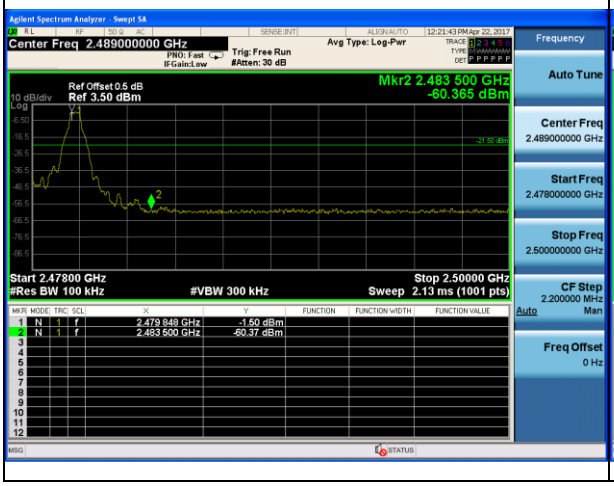
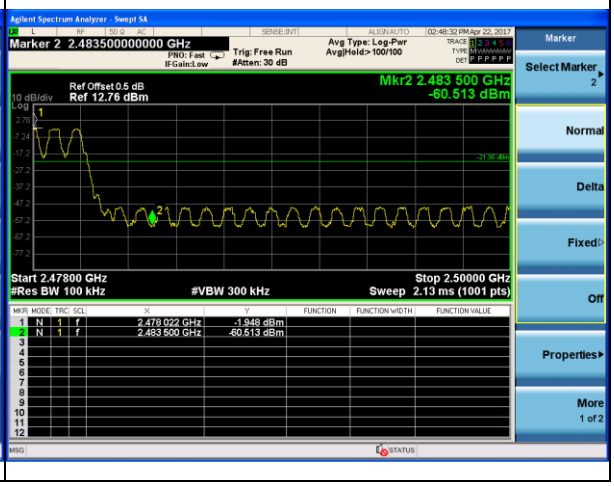
4.8.2 Test method

Use the following spectrum analyser settings:

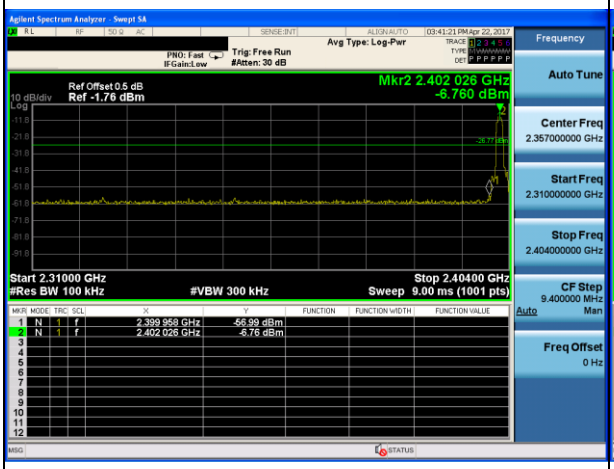
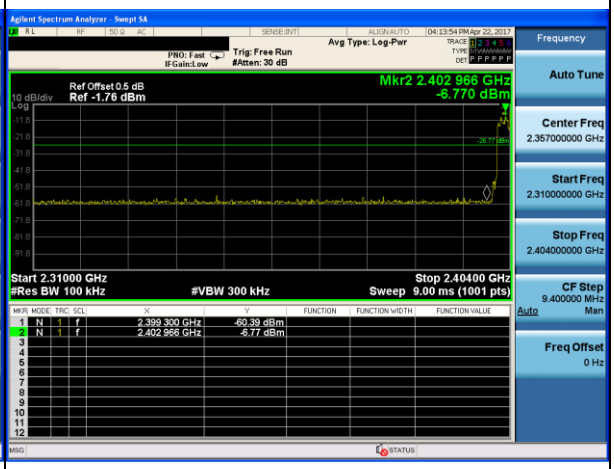
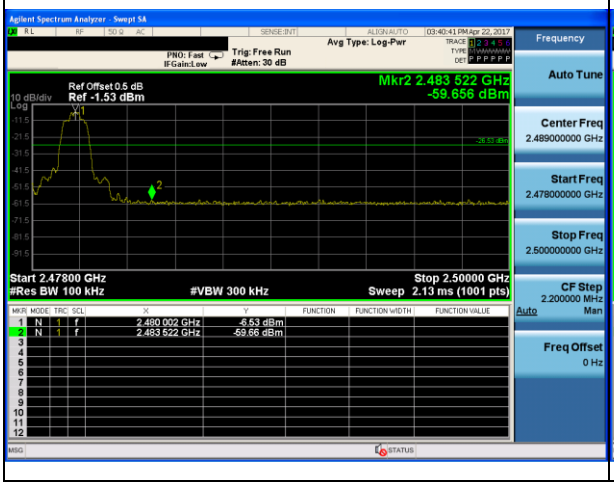
Set RBW =100 kHz. VBW ≥ 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.

4.8.3 Test Result

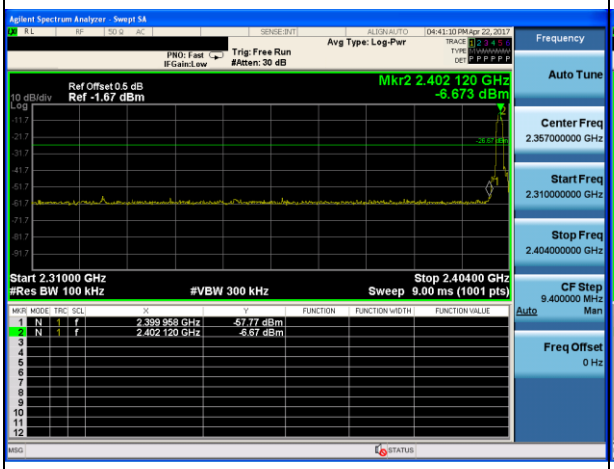
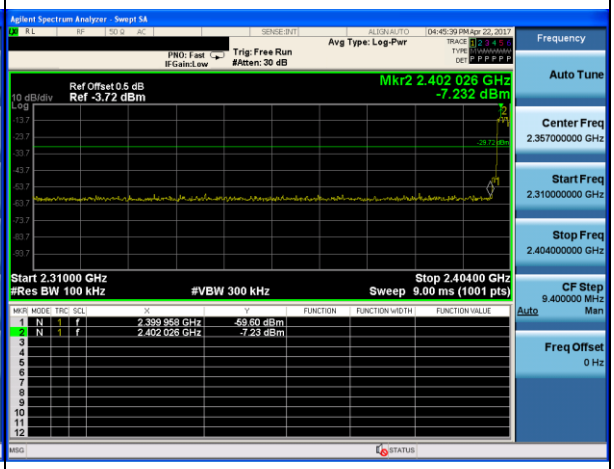
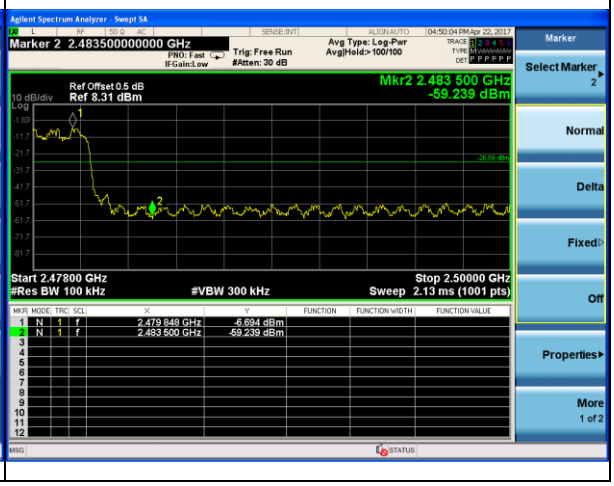
Band edge (GFSK mode)

2402MHz – no hop	2402MHz – hop
	
2480 – no hop	**2480 – hop**
	

Band edge (π/4-DQPSK mode)

2402MHz – no hop	2402MHz – hop
	
2480 – no hop	**2480 – hop**
	

Band edge (8DPSK mode)

2402MHz – no hop	2402MHz – hop
	
2480 – no hop	**2480 – hop**
	

4.9 Radiated emission

4.9.1 Limit

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. 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).

Frequency (MHz)	Field strength μV/m	Field strength dBμV/m	Detector	Measurement distance
30-88	100	40	QP	3m
88-216	150	43.5	QP	
216-960	200	46	QP	
960-1000	500	46	QP	
Above 1000	500	54	AV	
Above 1000	5000	74	PK	

Restricted bands defined in FCC 15.205:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

4.9.2 Test method

1. 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.

2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

3. Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold

4. 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.

5. The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 3MHz, Detector = RMS for AV value, while maintaining all of the other instrument settings.

6. The three orthogonal axis (x, y, z) are pre-tested, only the worst emission were reported.

4.9.3 Test Result

Radiated emission (GFSK mode)

Transmitter channel: 2402MHz					
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result
(MHz)	H / V	dBμV/m	dBμV/m		
159.78	V	32.4	43.5	QP	Pass
159.78	H	34.6	43.5	QP	
2390	V	47.56	74	PK	
2390	H	49.24	74	PK	
4804	V	50.24	74	PK	
4804	H	51.57	74	PK	
Transmitter channel: 2441MHz					
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result
(MHz)	H / V	dBμV/m	dBμV/m		
159.78	V	31.8	43.5	QP	
159.78	H	33.5	43.5	QP	
4882	V	50.68	74	PK	
4882	H	51.83	74	PK	
Transmitter channel: 2480MHz					
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result
(MHz)	H / V	dBμV/m	dBμV/m		
159.78	V	32.1	43.5	QP	
159.78	H	34.2	43.5	QP	
2483.5	V	47.89	74	PK	
2483.5	H	49.68	74	PK	
4960	V	50.41	74	PK	
4960	H	51.62	74	PK	

Note:
If the PK measured values lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
all three modes (GFSK, π/4-DQPSK, 8DPSK modes of EUT have been tested, only the data of worst case GFSK mode is reported.

----END OF REPORT----