

FCC Test Report

Part 15 subpart C

Client Information:

Applicant: Shenzhen Pakesen Electronics Co., Ltd.

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No.15, the First Industrial Park, Junquan Street, Xikeng Community,

Applicant add.: Shenzhen, China.

Product Information:

EUT Name: Bluetooth headset

Model No.: M807-BT

Brand Name: Pakesn

FCC ID: 2AE9WM807-BT

Standards: FCC PART 15 Subpart C: 2016 section 15.247

Test procedure used: ANSI C63.10-2013

Prepared By:

ATS Electronic Technology Co., Ltd.

Add.: 3/F, Building A, No. 1 Hedong Three Road, Jinxia Communityt, Changan Town,

DongGuan City, GuangDong, P.R.China

Date of Receipt: 2017.05.23 Date of Test: 2017.05.24-2017.05.31

Date of Issue: 2017.06.02 Test Result: Pass

This device described above has been tested by ATS Electronic 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.

*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by: Reviewed by:

Approved by:



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2 Test Summary

2.1 Compliance with FCC Part 15 subpart C

Test	Test Requirement	Standard Paragraph	Result
Antenna Requirement	FCC Part 15 C:2016	Section 15.247(c)	PASS
Conduction Emissions	FCC Part 15 C:2016	Section 15.207(a)	PASS
Radiated Emissions	FCC Part 15 C:2016	Section 15.247(d)	PASS
Carrier Frequencies Separated	FCC Part 15 C:2016	Section 15.247(a)(1)	PASS
Hopping Channel Number	FCC Part 15 C:2016	Section 15.247(a)(1) (iii)	PASS
Dwell Time	FCC Part 15 C:2016	Section 15.247(a)(1) (iii)	PASS
Maximum Peak Output Power	FCC Part 15 C:2016	Section 15.247(b)	PASS
Band edge	FCC Part 15 C:2016	Section 15.247(d)	PASS
Conducted Spurious Emissions	FCC Part 15 C:2016	Section 15.247(d)	PASS

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2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, The following measurements uncertainty Levels have estimated based on ANSI C63.10:2013, the maximum value of the uncertainty as below

No.	Item	Uncertainty
1	Conducted Emission Test	2.40dB
2	Radiated Emission Test	3.56dB

2.3 Test Location

All tests were performed at:

ATT Product Service Co., Ltd.

No. 3, ChangLianShan Industrial Park, ChangAn Town, DongGuan City, GuangDong, China.

The FCC Registration: 923232



3 General Information

3.1 General Description of EUT

No.15, the First Industrial Park, Junquan Street, Xikeng Community, Shenzhen, China.		
Bluetooth headset		
M807-BT		
N/A		
Pakesn		
2402 MHz to 2480 MHz		
79		
GFSK, π/4-DQPSK, 8DPSK		
Bluetooth 2.1+EDR		
V 1.0		
V 2.1		
Integral Antenna		
Maximum 0 dBi		
3.7Vdc by battery or 5Vdc by USB port		
3.7Vdc or 5Vdc		
N/A		
1Mbps: 1.324dBm		
3Mbps: 1.156dBm		
For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		
The USB port is just for charging, can not exchange data with PC.		



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



3.2 Description of Test conditions

(1) EUT was tested in normal configuration (Please See following Block diagram)

Block diagram of EUT configuration(TX Mode) Bluetooth				٠ ,		<u> </u>	,			
Bluetooth	1.	Block diagram of EUT configuration(TX Mode)								
EUT USB Line Laptop Test Board		EUT		Bluetooth Test Board	USB Line	Laptop				

Note:

- 1.Connect the EUT as above block diagram of configuration, Run the software, set the transmit serial port/power/channel/packet type/data type/hopping or not, send configuration, than EUT enter the TX mode.
- 2.Set EUT in continuous transmission signal mode.
- 3.Using the laptop and the transform board to control the fixed transmitting frequency and other test mode. After finishing the test setting, the notebook and the transform board will be removed during measurements.
- 4. This product is performing independent test under the battery is fully charged.
- (2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over	Number of	Location in
which device operates	frequencies	the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and
INDIE MAIT TO MINZ	3	1 near bottom

- (4) Frequency range of radiated measurements:
 - According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency.
- (5) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode, only the worst-case results(1Mbps/3Mbps) are recorded in this report.
- (6) The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

DongGuan City, GuangDong, P.R.China



3.3 Test Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	Lap top	ASUS	N/A	X401A	X16-96072	N/A	N/A
2	AC adapter	Stos	CE	QX6.5W7 5100FG	N/A	N/A	N/A
3	Bluetooth test board	N/A	N/A	N/A	N/A	N/A	N/A

3.4 EUT Peripheral List

No	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A



4 Equipments List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	ADVANTEST	R3182	150900201	2016.06.28	2017.06.27
2	EMI Measuring Receiver	Schaffner	SCR3501	235	2016.06.28	2017.06.27
3	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2016.06.28	2017.06.27
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2016.06.28	2017.06.27
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2016.06.28	2017.06.27
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2016.06.28	2017.06.27
7	SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170367	2016.06.28	2017.06.27
8	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.28	2017.06.27
9	EMI Test Receiver	R&S	ESCI	100124	2016.06.28	2017.06.27
10	LISN	Kyoritsu	KNW-242	8-837-4	2016.06.28	2017.06.27
11	LISN	Kyoritsu	KNW-407	8-1789-3	2016.06.28	2017.06.27
12	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.28	2017.06.27
13	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.28	2017.06.27
14	EMI Test Receiver	Rohde & Schwarz	ESIB26	100394	2016.06.28	2017.06.27
15	Radiated Cable 1# (30MHz-1GHz)	FUJIKURA	5D-2W	01	2016.01.04	2018.01.03
16	Radiated Cable 2# (1GHz -25GHz)	FUJIKURA	10D2W	02	2016.01.04	2018.01.03
17	Conducted Cable 1#(9KHz-30MHz)	FUJIKURA	1D-2W	01	2016.01.04	2018.01.03
18	SMA Antenna connector (Impedance:50OHM, cable loss:0.5dBm)	Dosin	Dosin-SMA	N/A	N/A	N/A

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Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



Test Result

5.1 **Antenna Requirement**

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 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.

15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

5.1.2 EUT Antenna

The antenna is Integral Antenna and no consideration of replacement. Antenna gain is Maximum 0 dBi from 2.4GHz to 2.5GHz.



5.2 Conduction Emissions Measurement

5.2.1 Applied procedures / Limit

Frequency of Emission (MHz)	Conducte	d Limit (dΒμV)
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

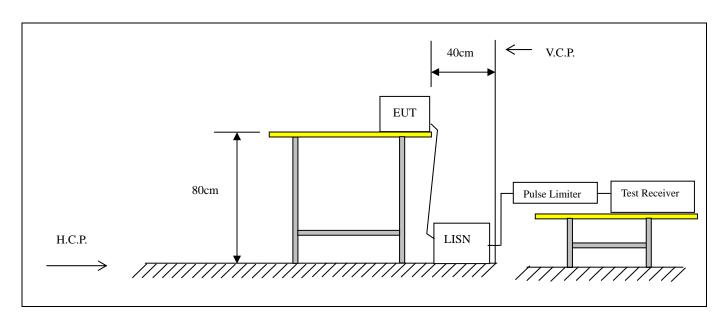
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Note: Decreases with the logarithm of the frequency.

5.2.2 Test procedure

EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

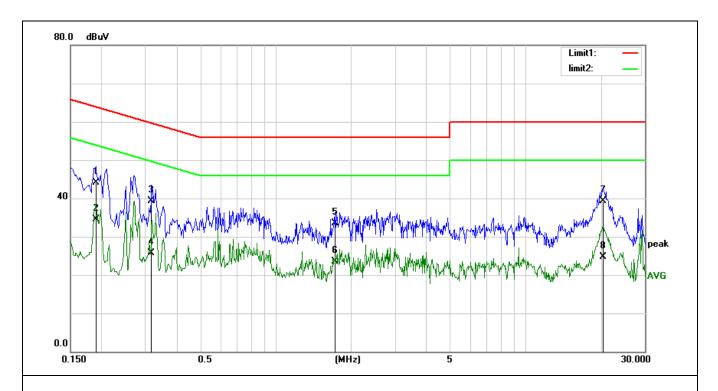
5.2.3 Test setup





5.2.4 Test results

EUT:	Bluetooth headset	Model Name. :	M807-BT
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2017-05-24
Test Mode:	TX (1Mbps) CH00 (worst case)	Phase :	Line
Test Voltage :	5Vdc by computer input 120V^60Hz		

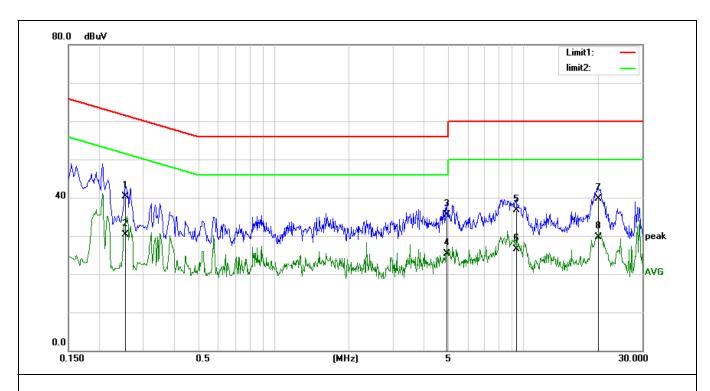


Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dB	dB	Detector	Comment
1	0.1894	43.86	0.34	44.20	64.87	-20.67	QP	
2 *	0.1894	34.08	0.34	34.42	54.87	-20.45	AVG	
3	0.3165	39.08	0.32	39.40	61.24	-21.84	QP	
4	0.3165	25.40	0.32	25.72	51.24	-25.52	AVG	
5	1.7161	28.20	5.30	33.50	56.00	-22.50	QP	
6	1.7161	18.29	5.30	23.59	46.00	-22.41	AVG	
7	20.3773	31.93	7.44	39.37	60.00	-20.63	QP	
8	20.3773	17.22	7.44	24.66	50.00	-25.34	AVG	



EUT:	Bluetooth headset	Model Name. :	M807-BT			
Temperature:	26 ℃	Relative Humidity:	54%			
Pressure:	1010hPa	Test Date :	2017-05-24			
Test Mode:	TX (1Mbps) CH00 (worst case)	Phase :	Neutral			
Test Voltage :	5Vdc by computer input 120V^60Hz					



Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dB	dB	Detector	Comment
1	0.2535	39.89	0.33	40.22	63.04	-22.82	QP	
2	0.2535	29.97	0.33	30.30	53.04	-22.74	AVG	
3	4.9257	28.20	7.34	35.54	56.00	-20.46	QP	
4	4.9257	17.99	7.34	25.33	46.00	-20.67	AVG	
5	9.3518	29.31	7.33	36.64	60.00	-23.36	QP	
6	9.3518	19.13	7.33	26.46	50.00	-23.54	AVG	
7	19.9500	32.22	7.44	39.66	60.00	-20.34	QP	
8 *	19.9500	22.33	7.44	29.77	50.00	-20.23	AVG	



5.3 Radiated Emissions Measurement

5.3.1 Applied procedures / Limit

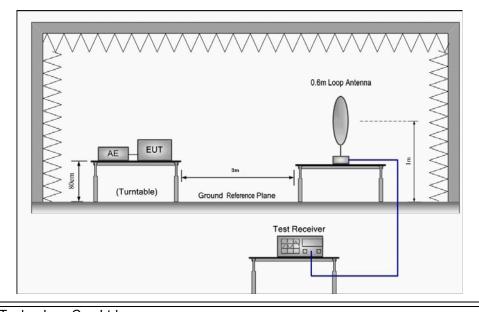
15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

	Field Stre	Measurement	
Frequency of Emission (MHz)	μV/m	dBμV/m	Distance (meters)
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

5.3.2 Test setup

Test Configuration:

1) 9 kHz to 30 MHz emissions:



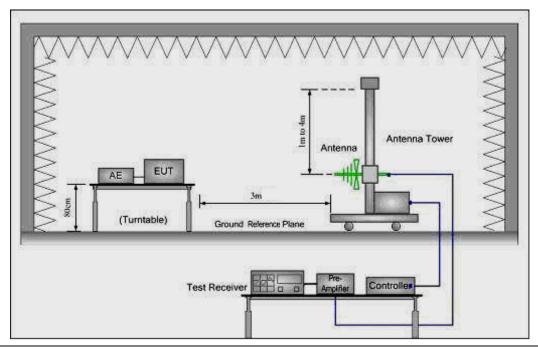
ATS Electronic Technology Co., Ltd.

3/F, Building A, No. 1 Hedong Three Road, Jinxia Community, Changan Town,

DongGuan City, GuangDong, P.R.China

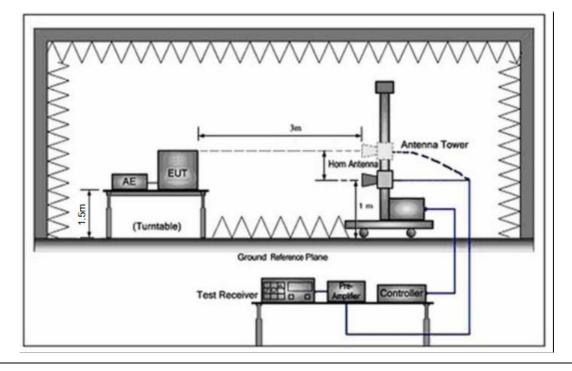


2) 30 MHz to 1 GHz emissions:



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3) 1 GHz to 25 GHz emissions:



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5.3.3 Test procedure

EUT was placed upon a wooden test table which was placed on the turn table and operating in the mode as mentioned above. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested. The worst case emissions were reported.

For measurement at frequency above 1GHz

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

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5.3.4 Test Result

Radiated Emissions Test Data Below 30MHz

EUT:	Bluetooth headset	Model Name:	M807-BT			
Temperature:	25 ℃	Test Data	2017-05-24			
Pressure:	1005 hPa	Relative Humidity:	60%			
Test Mode :	TX	Test Voltage:	3.7Vdc			
Measurement Distance	3 m	Frequency Range	9KHz to 30MHz			
RBW/VBW	KHz~150KHz/RB 200Hz for QP, 150KHz~30MHz/RB 9KHz for QP					

No emission found between lowest internal used/generated frequencies to 30MHz.



Radiated Emissions Test Data Below 1GHz

EUT:	Bluetooth headset	Model Name:	M807-BT			
Temperature:	25 ℃	Test Data	2017-05-24			
Pressure:	1010 hPa	Relative Humidity:	60%			
Test Mode :	TX (1Mbps) CH00 (worst case)	Test Voltage:	3.7Vdc			
Measurement Distance	3 m	Frequency Range	30MHz to 1GHz			
RBW/VBW	00KHz / 300KHz for spectrum, RBW=120KHz for receiver.					

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(a) Antenna polarization: Horizontal

(a), memo posmestom relization								
Frequency	Reading	Correct	Measure	Limit	Over	Detector Type		
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)			
	(dBuV)	(dB)	(dBuV/m)					
37.59	44.37	-19.26	25.11	40.00	-14.89	QP		
73.51	42.19	-13.74	28.45	40.00	-11.55	QP		
139.59	38.43	-14.32	24.11	43.50	-19.39	QP		
171.52	39.36	-11.28	28.08	43.50	-15.42	QP		
195.96	30.20	-6.49	23.71	43.50	-19.79	QP		
275.79	31.09	2.45	33.54	46.00	-12.46	QP		

(b) Antenna polarization: vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector Type
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	
	(dBuV)	(dB)	(dBuV/m)			
36.57	43.97	-14.75	29.22	40.00	-10.78	QP
71.28	37.44	-15.22	22.22	40.00	-17.78	QP
184.37	45.64	-11.03	34.61	43.50	-8.89	QP
294.06	42.99	-10.26	32.73	46.00	-13.27	QP
308.49	32.22	-6.67	25.55	46.00	-20.45	QP
373.86	30.54	-1.63	28.91	46.00	-17.09	QP

Note:

Measurement Level = Reading Level + Factor

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



Radiated Emissions Test Data Above 1GHz

EUT:	Bluetooth headset	Model Name:	M807-BT			
Temperature:	25 ℃	Test Data	2017-05-24			
Pressure:	1010 hPa	Relative Humidity:	60%			
Test Mode :	1Mbps	Test Voltage:	3.7Vdc			
Measurement Distance	3 m	Frequency Range	1GHz to 25GHz			
RBW/VBW	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz PK detector for					
KDVV/VDVV	Average.					

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(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4804.00	55.00	5.06	60.06	74.00	-13.94	peak
4804.00	42.37	5.06	47.43	54.00	-6.57	AVG
7206.00	48.13	7.03	55.16	74.00	-18.84	peak
7206.00	38.10	7.03	45.13	54.00	-8.87	AVG

(b) Antenna polarization: Vertical

b) / titorina polanzation. Vortical								
Frequency	Reading	Correct	Measure	Limit	Over	Detector		
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре		
	(dBuV)	(dB)	(dBuV/m)					
4804.00	55.04	5.06	60.10	74.00	-13.90	peak		
4804.00	43.32	5.06	48.38	54.00	-5.62	AVG		
7206.00	48.61	7.03	55.64	74.00	-18.36	peak		
7206.00	38.22	7.03	45.25	54.00	-8.75	AVG		

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

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

Lowest channel: 2402 MHz

Data rate: 1Mbps



(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4882.00	51.59	5.14	56.73	74.00	-17.27	peak
4882.00	41.90	5.14	47.04	54.00	-6.96	AVG
7323.00	43.73	7.54	51.27	74.00	-22.73	peak
7323.00	33.05	7.54	40.59	54.00	-13.41	AVG

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4882.00	50.41	5.14	55.55	74.00	-18.45	peak
4882.00	40.61	5.14	45.75	54.00	-8.25	AVG
7323.00	44.60	7.54	52.14	74.00	-21.86	peak
7323.00	34.12	7.54	41.66	54.00	-12.34	AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

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

Middle Channel: 2441 MHz

Data rate: 1Mbps



(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4960.00	55.49	5.22	60.71	74.00	-13.29	peak
4960.00	42.10	5.22	47.32	54.00	-6.68	AVG
7440.00	48.25	8.06	56.31	74.00	-17.69	peak
7440.00	32.74	8.06	40.80	54.00	-13.20	AVG

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(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4960.00	54.88	5.22	60.10	74.00	-13.90	peak
4960.00	38.59	5.22	43.81	54.00	-10.19	AVG
7440.00	44.42	8.06	52.48	74.00	-21.52	peak
7440.00	38.56	8.06	46.62	54.00	-7.38	AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

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

Highest Channel: 2480 MHz

Data rate: 1Mbps



EUT:	Bluetooth headset	Model Name:	M807-BT		
Temperature:	25 ℃	Test Data	2017-05-24		
Pressure:	1010 hPa	Relative Humidity:	60%		
Test Mode :	3Mbps	Test Voltage:	3.7Vdc		
Measurement Distance	3 m	Frequency Range	1GHz to 25GHz		
RBW/VBW	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz PK detector				
KDVV/ V DVV	for Average.				

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(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4804.00	53.07	5.06	58.13	74.00	-15.87	peak
4804.00	41.04	5.06	46.10	54.00	-7.90	AVG
7206.00	46.54	7.03	53.57	74.00	-20.43	peak
7206.00	35.96	7.03	42.99	54.00	-11.01	AVG

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4804.00	52.55	5.06	57.61	74.00	-16.39	peak
4804.00	41.78	5.06	46.84	54.00	-7.16	AVG
7206.00	47.71	7.03	54.74	74.00	-19.26	peak
7206.00	37.32	7.03	44.35	54.00	-9.65	AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

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

Lowest Channel: 2402 MHz

Data rate: 3Mbps



(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4882.00	53.49	5.14	58.63	74.00	-15.37	peak
4882.00	43.60	5.14	48.74	54.00	-5.26	AVG
7323.00	47.56	7.54	55.10	74.00	-18.90	peak
7323.00	34.87	7.54	42.41	54.00	-11.59	AVG

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4882.00	52.52	5.14	57.66	74.00	-16.34	peak
4882.00	41.62	5.14	46.76	54.00	-7.24	AVG
7323.00	47.19	7.54	54.73	74.00	-19.27	peak
7323.00	37.06	7.54	44.60	54.00	-9.40	AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

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

Middle Channel: 2441 MHz

Data rate: 3Mbps



(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4960.00	52.73	5.22	57.95	74.00	-16.05	peak
4960.00	40.72	5.22	45.94	54.00	-8.06	AVG
7440.00	45.42	8.06	53.48	74.00	-20.52	peak
7440.00	35.33	8.06	43.39	54.00	-10.61	AVG

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
4960.00	52.05	5.22	57.27	74.00	-16.73	peak
4960.00	41.18	5.22	46.40	54.00	-7.60	AVG
7440.00	47.36	8.06	55.42	74.00	-18.58	peak
7440.00	35.57	8.06	43.63	54.00	-10.37	AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

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

Highest channel: 2480 MHz

Data rate: 3Mbps



5.3.5 TEST RESULTS (Restricted Bands Requirements)

EUT:	Bluetooth headset	Model Name:	M807-BT			
Temperature:	25 ℃	Test Data	2017-05-24			
Pressure:	1010 hPa	Relative Humidity:	60%			
Test Mode :	TX 1Mbps\ 3Mbps	Test Voltage:	3.7Vdc			
RBW/VBW	1MHz/3MHz PK detector is for P	K value,1MHz/10Hz	PK detector for AV.			
Note:	1. The transmitter was setup to	transmit at the lowe	st channel. Then the field			
	strength was measured at 23°	10-2390 MHz.				
	2. The transmitter was setup to transmit at the highest channel. Then the field					
	strength was measured at 2483.5-2500 MHz.					
	3. The data of 2390MHz and 248	83.5MHz was the wors	t.			

Test	Ant.Pol. H/V	Freq. (MHz)	Reading		A not/CC	Act		Limit	
Mode			Peak (dBuv)	AV (dBuv)	Ant/CF CF(dB)	Peak (dBuv/m)	AV (dBuv/m)	Peak (dBuv/m)	AV (dBuv/m)
Data rate 1Mbps	V	2390	45.22	34.07	-5.79	39.43	28.28	74.00	54.00
	Н	2390	43.61	32.56	-5.79	37.82	26.77	74.00	54.00
	V	2483.5	43.79	31.20	-4.98	38.81	26.22	74.00	54.00
	Н	2483.5	42.87	31.66	-4.98	37.89	26.68	74.00	54.00
	V	2390	45.10	33.38	-5.79	39.31	27.59	74.00	54.00
Data rate 3Mbps	Н	2390	45.67	34.78	-5.79	39.88	28.99	74.00	54.00
	V	2483.5	43.72	32.64	-4.98	38.74	27.66	74.00	54.00
	Н	2483.5	44.07	31.14	-4.98	39.09	26.16	74.00	54.00

Remark:	
(1)	Radiated emissions measured in frequency range above 1000MHz were made with an instrument
	using Peak detector mode.
(2)	During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB
	cone of radiation BW of the used antenna
(3)	Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.



5.4 BANDWIDTH TEST

5.4.1 Applied procedures / Limit

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

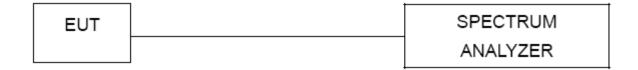
5.4.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector function = peak Trace = max hold

5.4.3 Deviation from standard

No deviation.

5.4.4 Test setup



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5.4.5 Test results

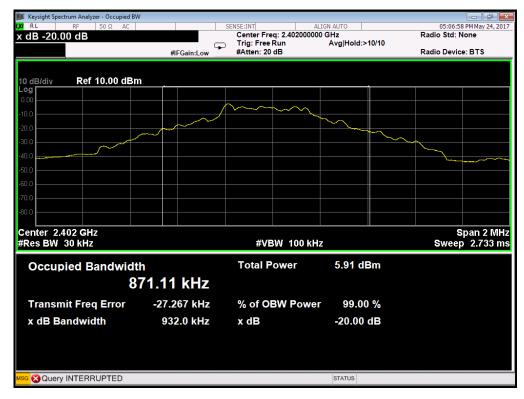
EUT:	Bluetooth headset	Model Name:	M807-BT
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	3.7Vdc
Test Mode:	TX 1Mbps/ 3Mbps		

Channel		Channel frequency (MHz)	20dB bandwidth (KHz)	Limit (KHz)	Conclusion
1Mbps	Low	2402.0	932.0	N/A	Pass
	Middle	2441.0	930.0	N/A	Pass
	High	2480.0	932.1	N/A	Pass
3Mbps	Low	2402.0	1259.0	N/A	Pass
	Middle	2441.0	1259.0	N/A	Pass
	High	2480.0	1259.0	N/A	Pass



CH00-1Mbps

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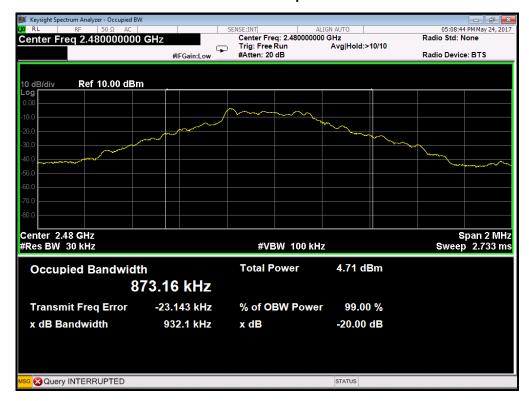
CH 39-1Mbps



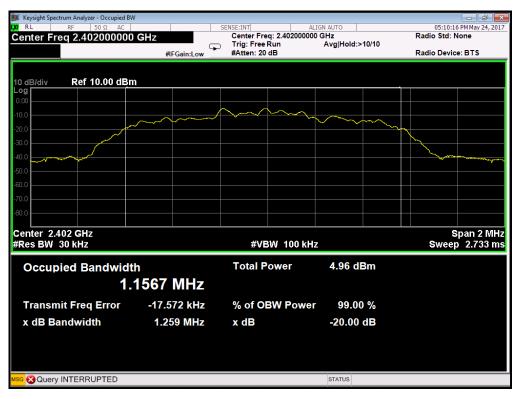
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CH 78-1Mbps



CH 00-3Mbps



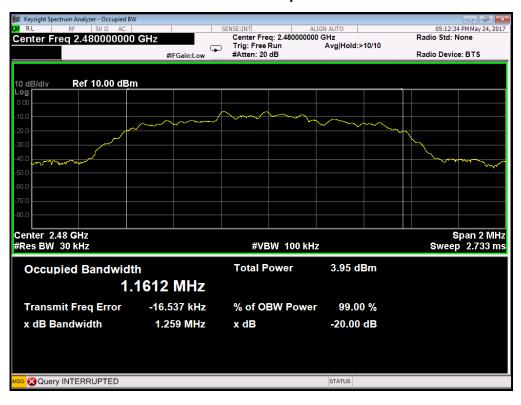
DongGuan City, GuangDong, P.R.China



CH 39-3Mbps



CH 78-3Mbps



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5.5 Carrier Frequencies Separated

5.5.1 Applied procedures / Limit

15.247(a) (1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

5.5.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as Span = wide enough to capture the peaks of two adjacent channels, Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span, Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto, Detector function = peak, Trace = max hold
- (2) The EUT should be transmitting at its maximum data rate. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. also shall be performed at different modes of operation.

5.5.3 Deviation from standard

No deviation.

5.5.4 Test setup

EUT	SPECTRUM
	ANALYZER



5.5.5 Test results

EUT:	Bluetooth headset	Model Name:	M807-BT
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	3.7Vdc
Test Mode:	TX 1Mbps/ 3Mbps		

Channel		Channel frequency (MHz)	Channel Separation (MHz)	Conclusion
	Low	2402.0	0.943	Pass
1Mbps	Middle	2441.0	0.997	Pass
	Highest	2480.0	1.001	Pass
	Low	2402.0	0.999	Pass
3Mbps	Middle	2441.0	0.994	Pass
	Highest	2480.0	1.001	Pass

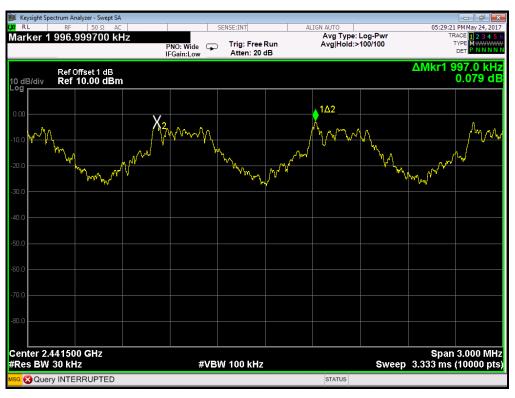
Ch. Separation >2/3(20dB bandwidth)



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5.6 Hopping Channel Number

5.6.1 Applied procedures / Limit

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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.6.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer , set the Spectrum Analyzer as Span = the frequency band of operation, RBW ≥ 1% of the span, VBW ≥ RBW Sweep = auto Detector function = peak, Trace = max hold
- (2) The EUT should be have its hopping function enabled. Maxhold and record hopping channels It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.

5.6.3 Deviation from standard

No deviation.

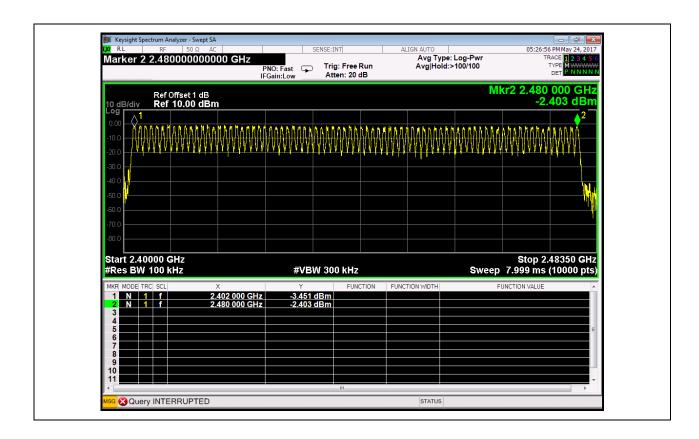
5.6.4 Test setup

EUT	SPECTRUM
	ANALYZER



5.6.5 Test result

Hopping Channel Number result				
Operating Mode: Hopping Mode Test date:2017-05-25				
Result Limi		t	Conclusion	
79	15		Pass	





5.7 Dwell time

5.7.1 Applied procedures / Limit

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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.7.2 Test procedure

- (1) Place the EUT on the table in the chamber or connect the antenna port of the EUT to spectrum analyzer and set it in transmitting mode.
- (2) Set RBW of spectrum analyzer to 1MHz, VBW ≥ RBW
- (3) Use a 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 DH5, DH3 and DH1 packet transmitting.
- (8) Measure the maximum time duration of one single pulse.
- (9) A Period Time = 79*0.4=31.6 S

DH1 Time Slot: Reading * (1600/2)*31.6/79 DH3 Time Slot: Reading * (1600/4)*31.6/79

DH5 Time Slot: Reading * (1600/6)*31.6/79

5.7.3 Deviation from standard

No deviation.

5.7.4 Test setup



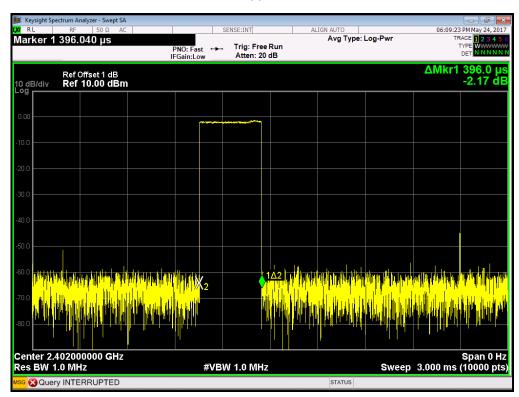


5.7.5 Test result

EUT:	Bluetooth headset	Model Name:	M807-BT
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	3.7Vdc
Test Mode:	CH00-DH1/DH3/DH5 (1Mbps Mode)		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (ms)	Limits (ms)
DH1	2402 MHz	0.396	0.127	400
DH3	2402 MHz	1.650	0.264	400
DH5	2402 MHz	2.939	0.313	400

CH 00- DH1

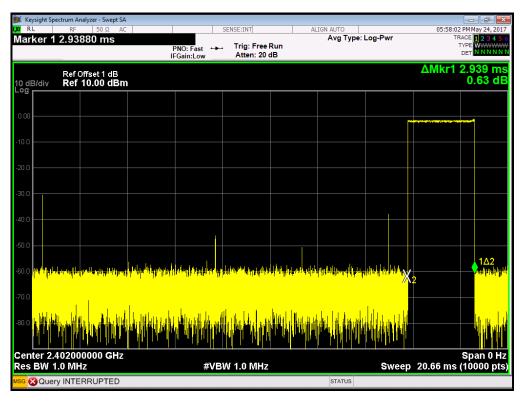




CH 00- DH3



CH 00- DH5

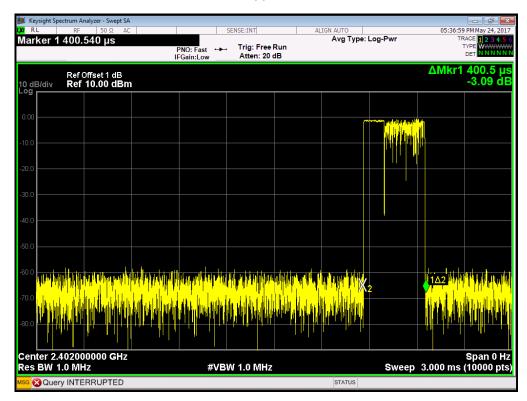




EUT:	Bluetooth headset	Model Name:	M807-BT
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	010 hPa Test Power: 3.7Vdc		
Test Mode:	CH00-3DH1/3DH3/3DH5 (3Mbps Mode)		

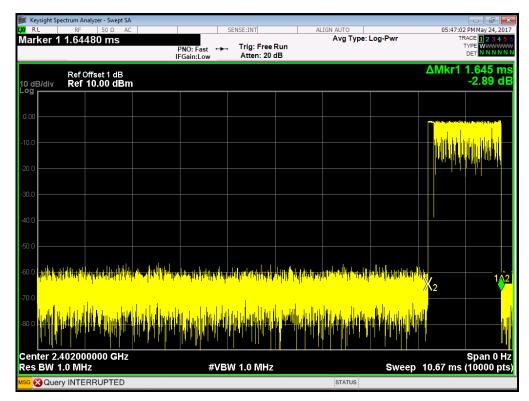
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (ms)	Limits (ms)
3DH1	2402 MHz	0.401	0.128	400
3DH3	2402 MHz	1.645	0.263	400
3DH5	2402 MHz	3.050	0.325	400

CH 00- DH1

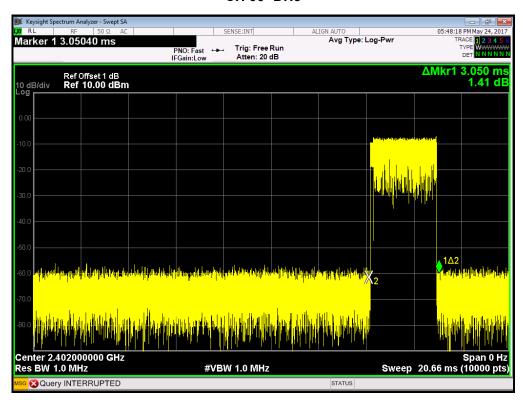




CH 00- DH3



CH 00- DH5





5.8 Maximum Peak Output Power

5.8.1 Applied procedures / Limit

15.247(a) (1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

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: 1watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.8.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as 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
- (2) 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. The indicated level is the peak output power.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. Also shall be performed at different modes of operation.

5.8.3 Deviation from standard

No deviation.

5.8.4 Test setup

EUT	SPECTRUM
	ANALYZER



5.8.5 **Test results**

EUT:	Bluetooth headset	Model Name:	M807-BT	
Temperature:	26 ℃	Relative Humidity:	60%	
Pressure:	1010 hPa	Test Voltage:	3.7Vdc	
Test Mode :	Mode : TX			
Note: All the data rates have be tested and the worst-case as the table below				

Test Mode	Frequency	Peak Output Power (dBm)	Limit (dBm)	Result
	2402 MHz	1.324	21	Pass
Data rate 1Mbps	2441 MHz	-0.656	21	Pass
	2480 MHz	-1.525	21	Pass
	2402 MHz	1.156	21	Pass
Data rate 3Mbps	2441 MHz	-0.853	21	Pass
	2480 MHz	-2.170	21	Pass
Cable loss = 1.0 dBm				

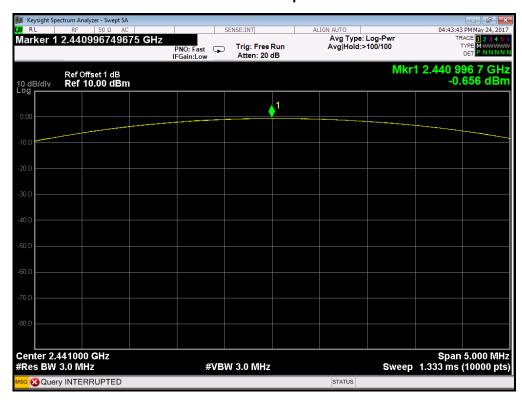


CH 00-1Mbps

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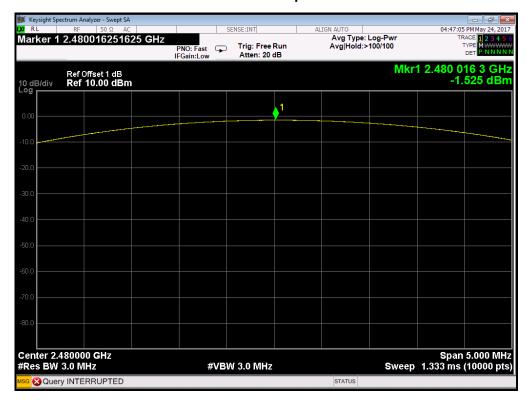
CH 39-1Mbps



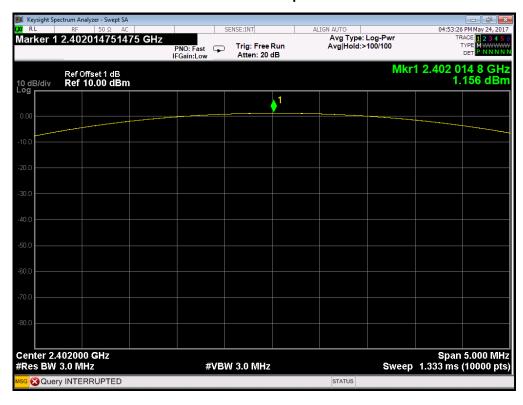
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CH 78-1Mbps



CH 00-3Mbps

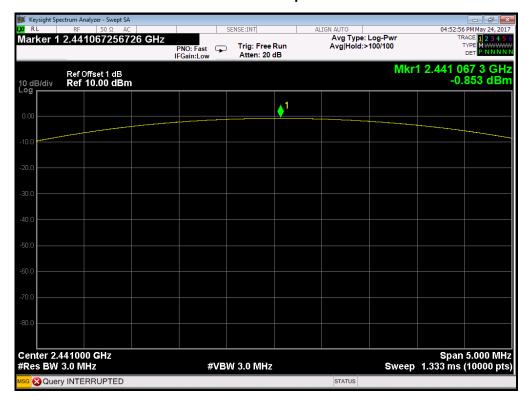


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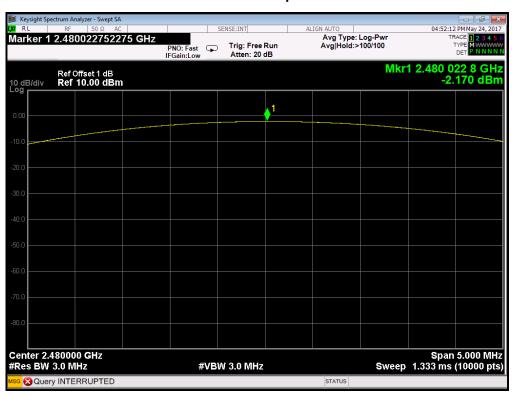


CH 39-3Mbps

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CH 78-3Mbps



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5.9 Band edge

5.9.1 Applied procedures / Limit

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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.9.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation, RBW =100kHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold

5.9.3 Deviation from standard

No deviation.

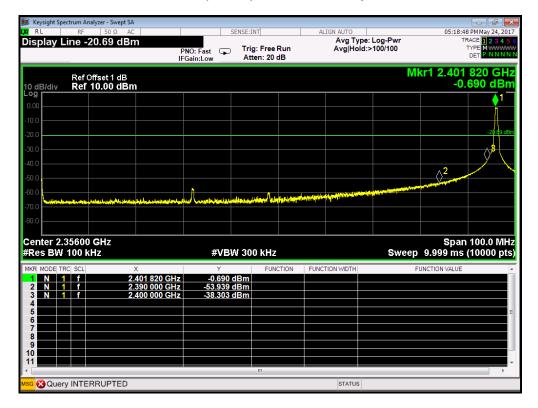
5.9.4 Test setup

EUT	SPECTRUM
	ANALYZER

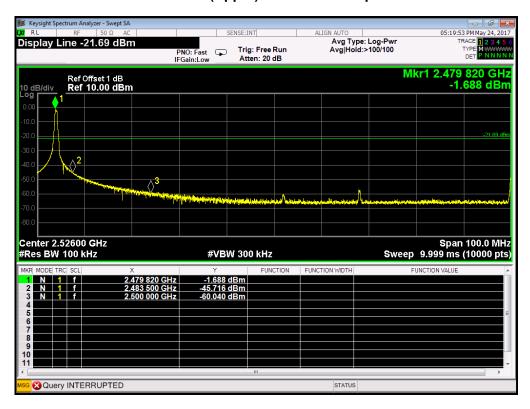


5.9.5 Test results

CH00 (Lower) Data rate 1Mbps



CH 78 (Upper) Data rate 1Mbps

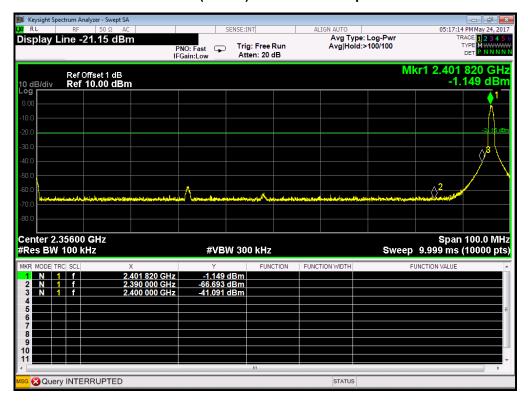


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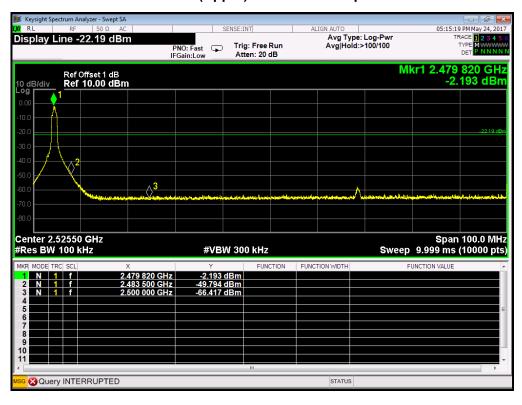


CH00 (Lower) Data rate 3Mbps

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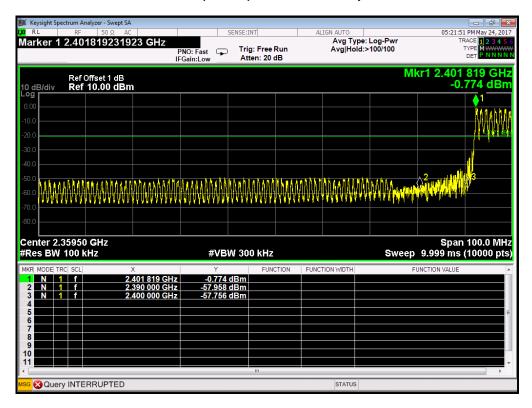


CH 78 (Upper) Data rate 3Mbps

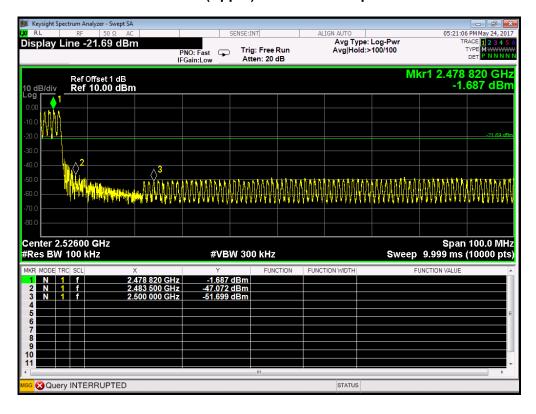




CH00 (Lower) Data rate 1Mbps



CH 78 (Upper) Data rate 1Mbps

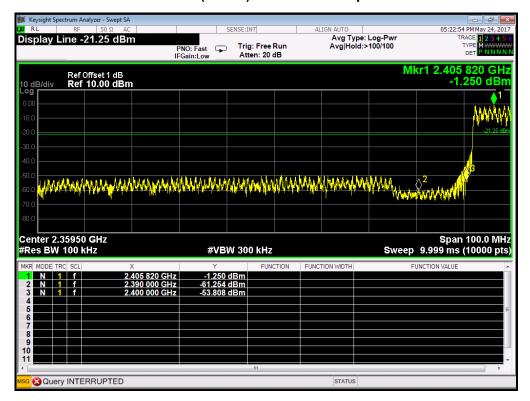


DongGuan City, GuangDong, P.R.China

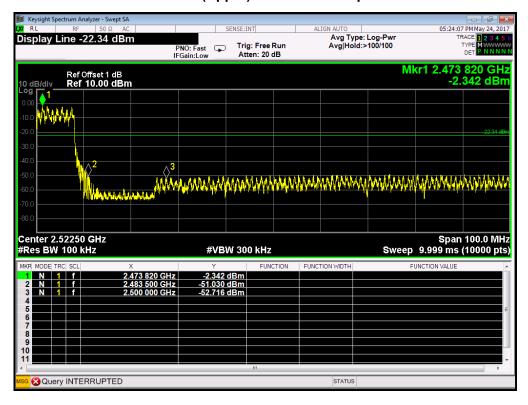


CH00 (Lower) Data rate 3Mbps

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CH 78 (Upper) Data rate 3Mbps



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5.10 Conducted Spurious Emissions

5.10.1 Applied procedures / Limit

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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.10.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span. RBW = 100 kHz VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold sweep points ≥ investigated frequency range/RBW.

5.10.3 Deviation from standard

No deviation.

5.10.4 Test setup

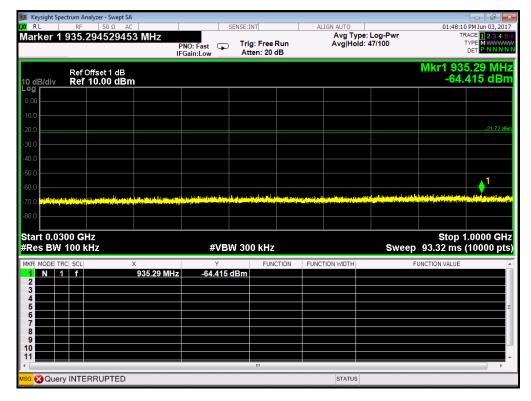
EUT	SPECTRUM
	ANALYZER

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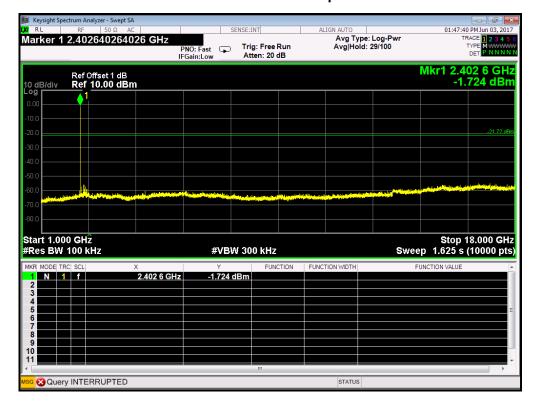


5.10.5Test results

CH00 Data rate 1Mbps



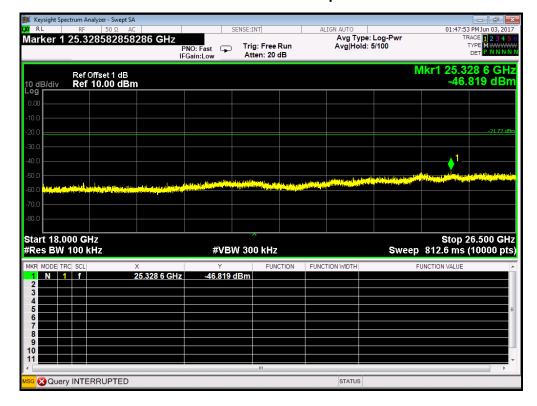
CH00 Data rate 1Mbps



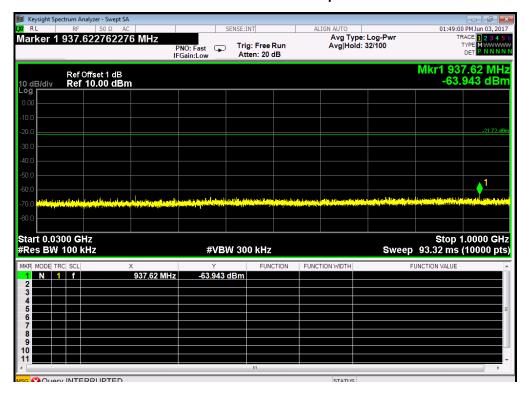
DongGuan City, GuangDong, P.R.China



CH00 Data rate 1Mbps



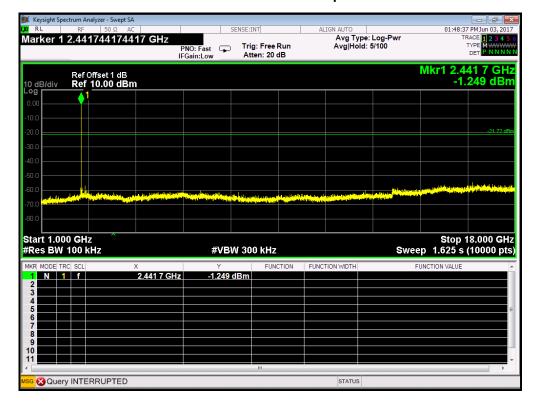
CH39 Data rate 1Mbps



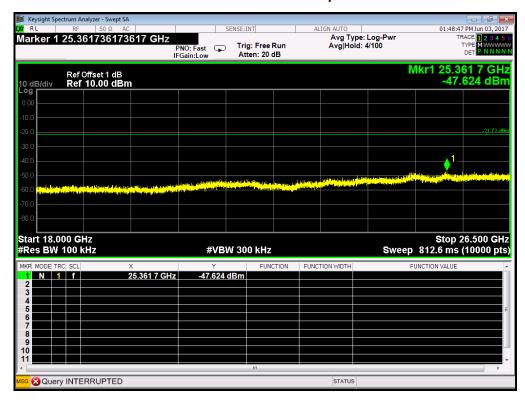
DongGuan City, GuangDong, P.R.China



CH39 Data rate 1Mbps



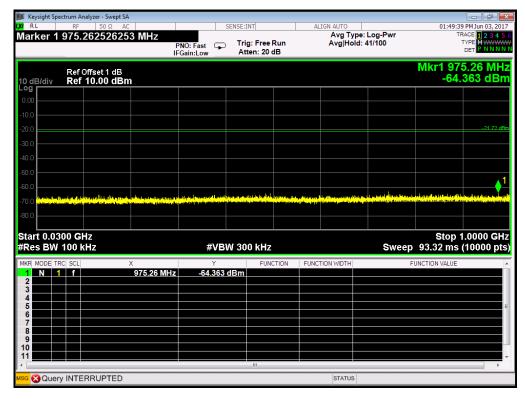
CH39 Data rate 1Mbps



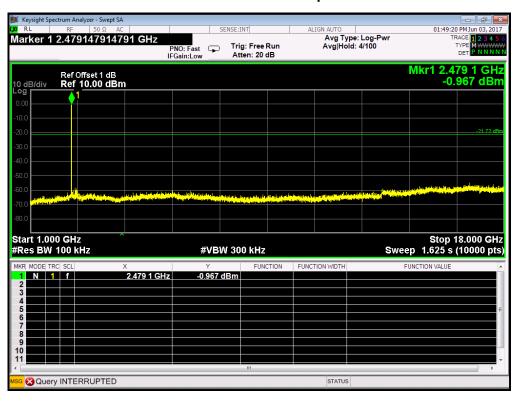
DongGuan City, GuangDong, P.R.China



CH78 Data rate 1Mbps



CH78 Data rate 1Mbps

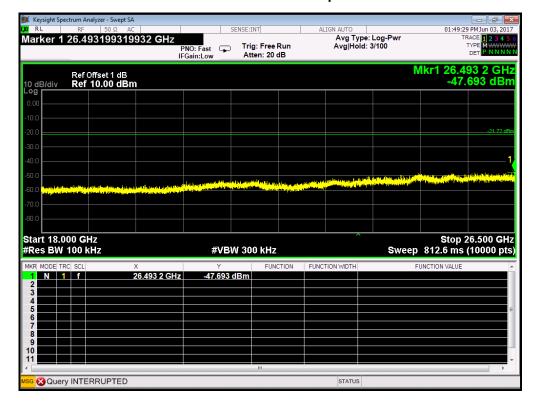


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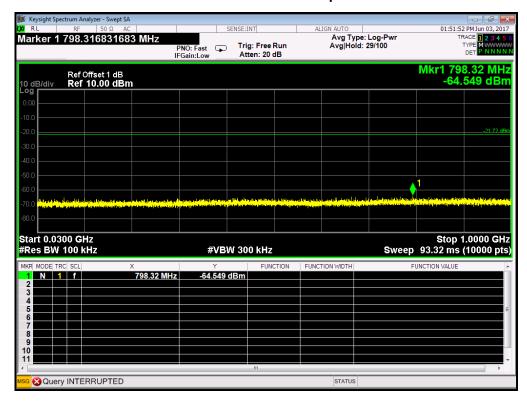


CH78 Data rate 1Mbps

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CH00 Data rate 3Mbps

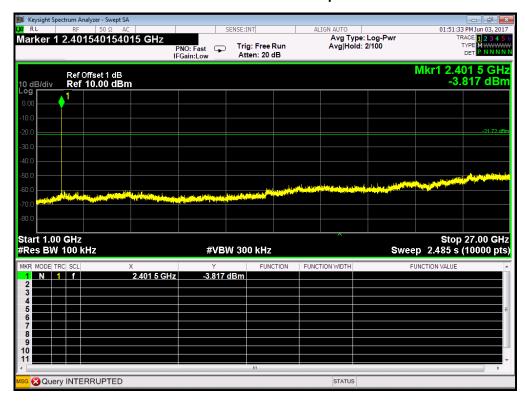


DongGuan City, GuangDong, P.R.China



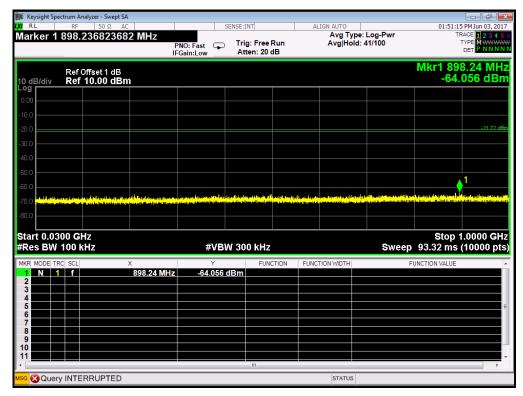
CH00 Data rate 3Mbps

60 / 68

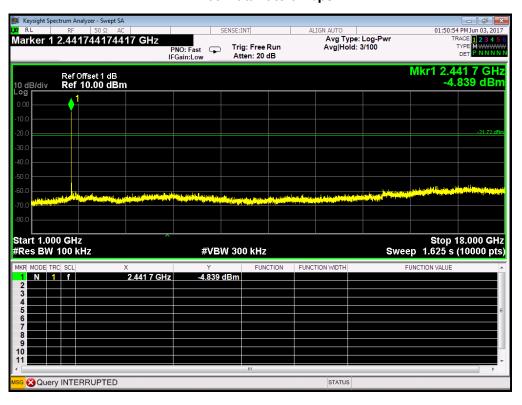


CH39 Data rate 3Mbps

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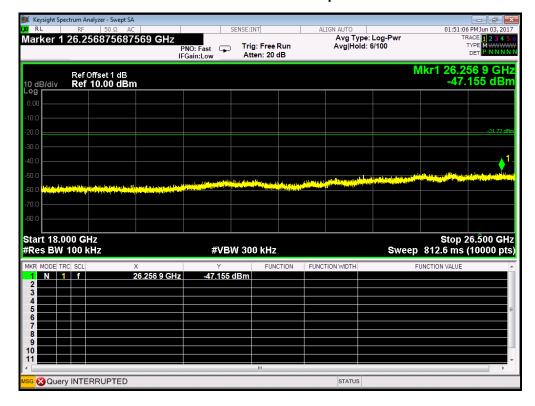
CH39 Data rate 3Mbps



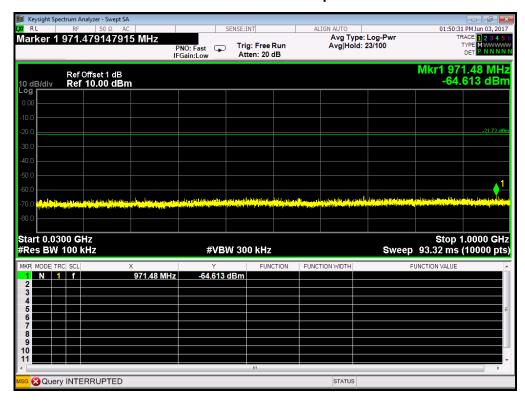


CH39 Data rate 3Mbps

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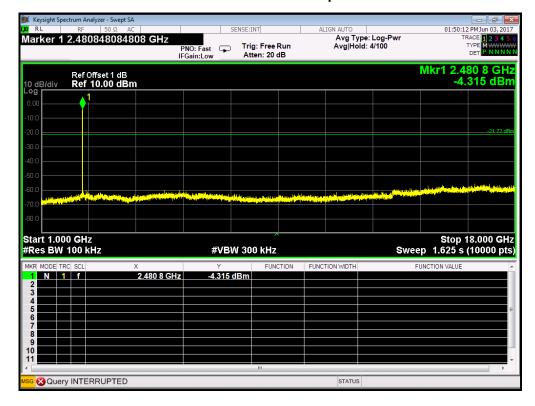


CH78 Data rate 3Mbps

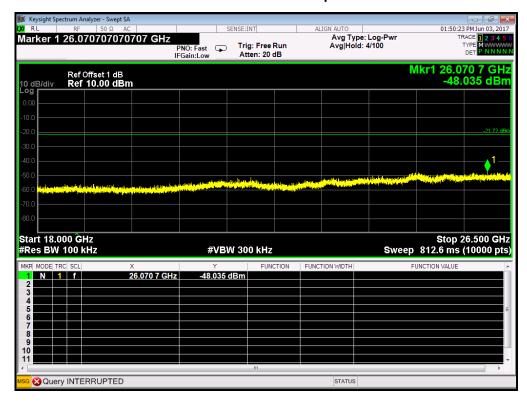




CH78 Data rate 3Mbps



CH78 Data rate 3Mbps



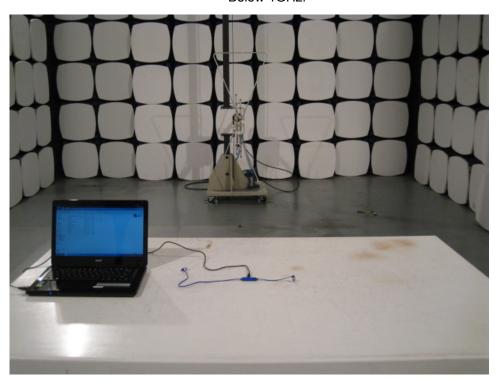
DongGuan City, GuangDong, P.R.China



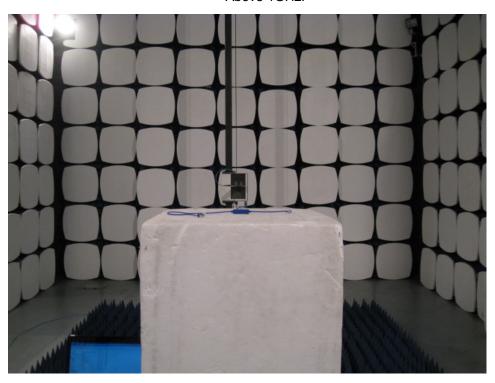
Photographs

6.1 Radiated Spurious Emission Test Setup

Below 1GHz:



Above 1GHz:



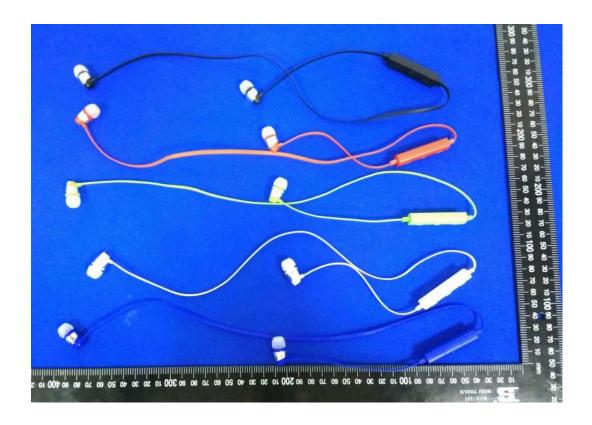


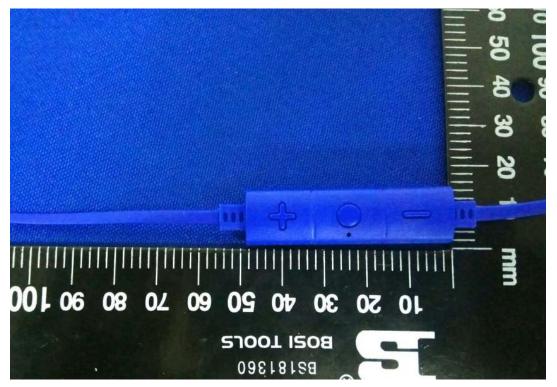
6.2 Conducted Emission Test Setup



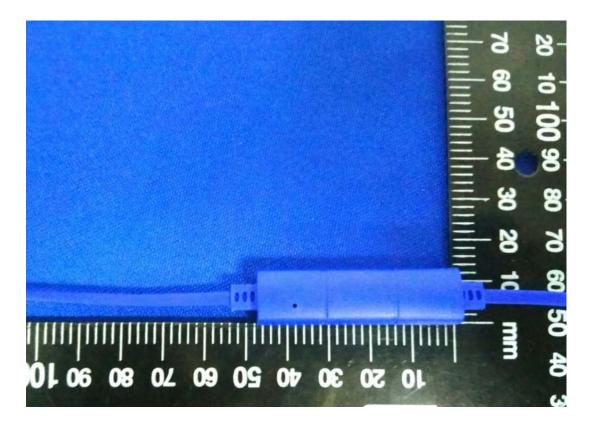


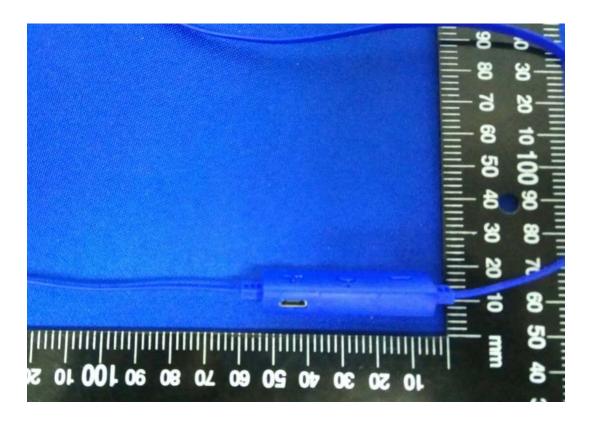
7 EUT Photos



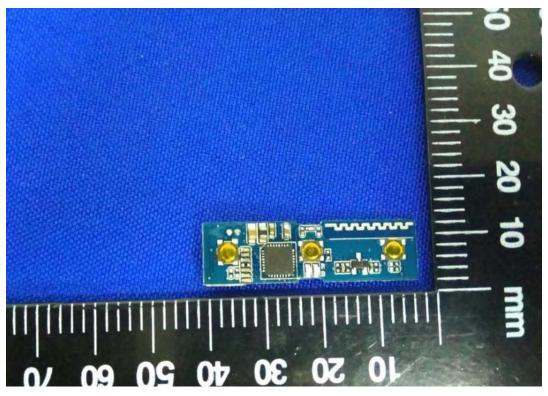


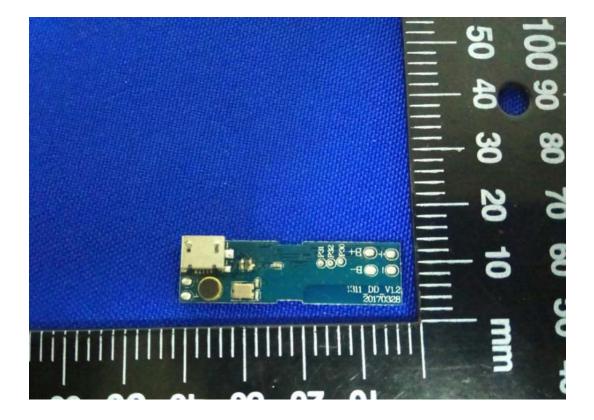












** End of report **