

FCC Test Report

Part 15 subpart C

Client Information:

Applicant: BOOMPODS (HK) LTD.

RM 303-304 Hankow Centre 5-15, Hankow Road T.S.T. Kowloon, HONG

KONG.

Product Information:

Applicant add.:

EUT Name: Waterproof Wireless Speaker

Model No.: Rokpod

Brand Name: N/A

FCC ID: 2AFAX-ROKPOD

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: Feb 23, 2017 Date of Test: Feb 24~ Feb 27, 2017

Date of Issue: Mar 01, 2017 Test Result: Pass

This device described above has been tested by ATT Product Service 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: Look Hum

Approved by: Simon Zerg



1 Contents

	COVE	R PA	AGE	Page
1			ENTS	
2	TES	ST S	SUMMARY	4
	2.1	Con	MPLIANCE WITH FCC PART 15 SUBPART C	4
	2.2	TES	ST LOCATION	
	2.3	MEA	ASUREMENT UNCERTAINTY	
3	GE	NER	RAL INFORMATION	6
	3.1	GEN	NERAL DESCRIPTION OF EUT	6
	3.2	DES	SCRIPTION OF TEST CONDITIONS	8
	3.3		ST PERIPHERAL LIST	
	3.4		T Peripheral List	
4	EQ	UIP	MENTS LIST FOR ALL TEST ITEMS	10
5	TES	ST R	RESULT	1 ²
	5.1		TENNA REQUIREMENT	
	5.1 5.1		Standard requirement	
	5.1. 5.1.		EUT Antenna	
	_		NDUCTION EMISSIONS MEASUREMENT	
	5.2		Applied procedures / Limit	
	5.2		Test procedure	
	5.2		Test setup	
	5.2		Test results	
	5.3		DIATED EMISSIONS MEASUREMENT	
	5.3		Applied procedures / Limit	
	5.3		Test setup	
	5.3		Test procedure	
	5.3		Test Result	
	5.3		TEST RESULTS (Restricted Bands Requirements)	
	5.4		NDWIDTH TEST	
	5.4		Applied procedures / Limit	
	5.4		Test procedure	
	5.4		Deviation from standard	
	5.4		Test setup	
	5.4		Test results	
	5.5		RRIER FREQUENCIES SEPARATED	
	5.5		Applied procedures / Limit	
	5.5		Test procedure	
	0.0			



•		DIATED SPURIOUS EMISSION TEST SETUP	
6		OGRAPHS	
		Test results	
		Test setup	
	5.10.3	Deviation from standard	
		Test procedure	
		Applied procedures / Limit	
		NDUCTED SPURIOUS EMISSIONS	
	5.9.4 5.9.5	Test results	
	5.9.3 5.9.4	Test setup	
	5.9.2 5.9.3	Deviation from standard	
	5.9.1 5.9.2	Applied procedures / Limit	
		ND EDGE	
	5.8.5	Test results	
	5.8.4	Test setup	
	5.8.3	Deviation from standard	
	5.8.2	Test procedure	
	5.8.1	Applied procedures / Limit	
		XIMUM PEAK OUTPUT POWER	
	5.7.5	Test result	
	5.7.4	Test setup	
	5.7.3	Deviation from standard	
	5.7.2	Test procedure	
	5.7.1	Applied procedures / Limit	40
	5.7 Dw	ELL TIME	40
	5.6.5	Test result	39
	5.6.4	Test setup	38
	5.6.3	Deviation from standard	
	5.6.2	Test procedure	
	5.6.1	Applied procedures / Limit	
		PPING CHANNEL NUMBER	
	5.5.5	Test results	
	5.5.4	Test setup	
	5.5.3	Deviation from standard	33



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

4 / 64



2.2 Test Location

All tests were performed at:

ATT Product Service Co., Ltd.

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

5 / 64

The FCC Registration: 923232

2.3 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

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.44dB
Uncertainty for Radiation Emission test (150KHz-30MHz)	3.21dB
Uncertainty for Radiction Emission test (20MHz 10Hz)	3.52 dB (Polarize: V)
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.54 dB (Polarize: H)
Uppertainty for Radiation Emission test (10Hz to 250Hz)	5.54dB (Polarize: V)
Uncertainty for Radiation Emission test (1GHz to 25GHz)	3.56dB (Polarize: H)
Uncertainty for radio frequency	1×10-9
Uncertainty for conducted RF Power	0.65dB



3 General Information

3.1 General Description of EUT

Manufacturer:	BOOMPODS (HK) LTD.
Manufacturer Address:	RM 303-304 Hankow Centre 5-15, Hankow Road T.S.T. Kowloon, HONG KONG.
EUT Name:	Waterproof Wireless Speaker
Model No:	Rokpod
Derivative model No.:	N/A
Brand Name:	N/A
Operation frequency:	2402 MHz to 2480 MHz
Number of channel:	79
Modulation Technology:	GFSK, π/4-DQPSK, 8DPSK(1/2/3Mbps)
Bluetooth version:	Bluetooth 4.1 Without BLE mode
H/W No.:	V2.0
S/W No.:	V1.0
Antenna Type:	Integral Antenna
Antenna Gain:	Maximum 0 dBi
Power Supply Range:	5Vdc from micro-USB or 3.7Vdc from battery
Power Supply:	5Vdc from computer 3.7Vdc from battery
Power Cord:	N/A
	1Mbps: -2.04dBm
Output power (max):	3Mbps: -0.95dBm
Model description:	
Note:	
,	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



		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)

<u>'</u>					
1. Block diagram of EUT config	uration(TX N	Mode)			
	EUT	USB Line	Laptop		
			1		

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 adiated 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	2	1 near top, 1 near middle and
More than 10 MHz	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.



3.3 Test Peripheral List

No.	Equipment	Manufacturer	FCC approved	Model No.	Serial No.	Power cord	signal cable
1	Lap top	lenovo	DOC	7457	7457A82	N/A	N/A
2	AC adapter	Stos	VOC	QX6.5W7 5100FG	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	2016.12.24	2017.12.24
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

10 / 64

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

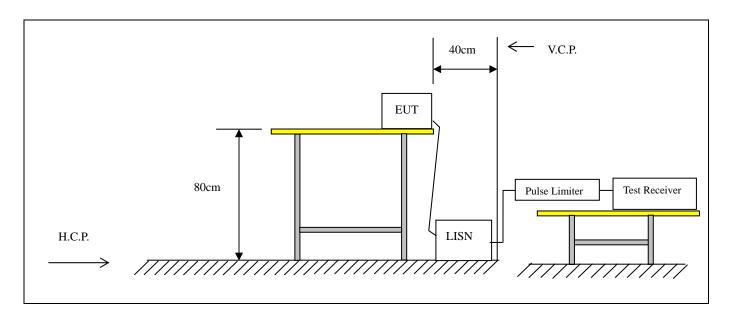
12 / 64

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

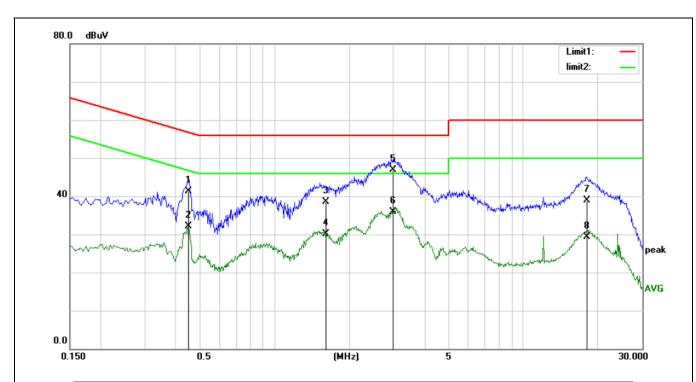




5.2.4 Test results

EUT:	Waterproof Wireless Speaker	Model Name. :	Rokpod
Temperature:	24 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Date :	2017-02-26
Test Mode:	TX (1Mbps) CH00 (worst case)	Phase :	Line
Test Voltage :	5Vdc from computer		

13 / 64



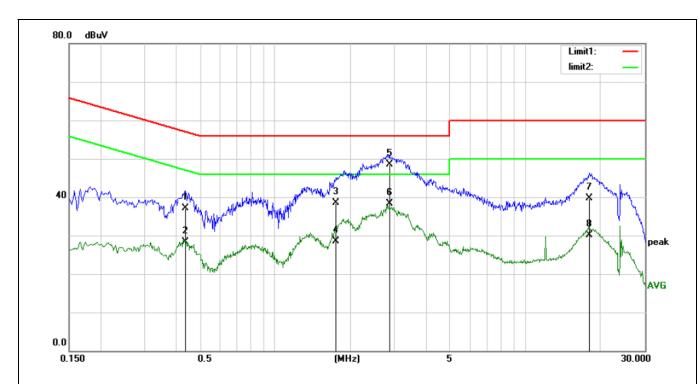
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dB	dB	Detector	Comment
1	0.4485	31.26	9.98	41.24	56.90	-15.66	QP	
2	0.4485	22.07	9.98	32.05	46.90	-14.85	AVG	
3	1.6013	23.46	14.97	38.43	56.00	-17.57	QP	
4	1.6013	15.13	14.97	30.10	46.00	-15.90	AVG	
5 *	2.9770	31.94	15.00	46.94	56.00	-9.06	QP	
6	2.9770	20.92	15.00	35.92	46.00	-10.08	AVG	
7	17.9923	21.80	17.12	38.92	60.00	-21.08	QP	
8	17.9923	12.17	17.12	29.29	50.00	-20.71	AVG	

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



EUT:	Waterproof Wireless Speaker	Model Name. :	Rokpod
Temperature:	24 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Date :	2017-02-26
Test Mode:	TX (1Mbps) CH00 (worst case)	Phase :	Neutral
Test Voltage :	5Vdc from computer		

14 / 64



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dB	dB	Detector	Comment
1		0.4388	27.03	9.98	37.01	57.08	-20.07	QP	
2		0.4388	18.36	9.98	28.34	47.08	-18.74	AVG	
3		1.7509	23.48	14.97	38.45	56.00	-17.55	QP	
4		1.7509	13.59	14.97	28.56	46.00	-17.44	AVG	
5	*	2.8745	33.46	15.00	48.46	56.00	-7.54	QP	
6		2.8745	23.35	15.00	38.35	46.00	-7.65	AVG	
7		17.9946	22.52	17.12	39.64	60.00	-20.36	QP	
8		17.9946	12.98	17.12	30.10	50.00	-19.90	AVG	

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



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)).

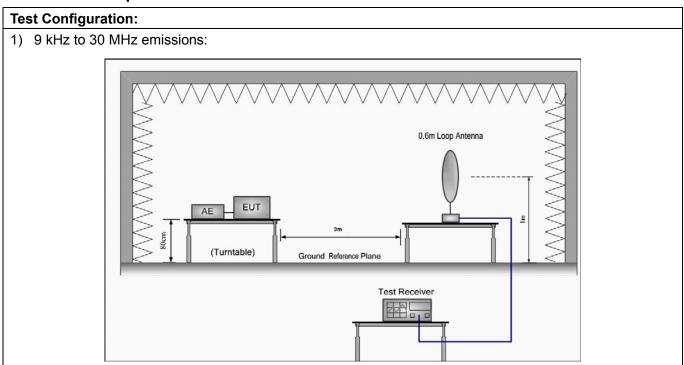
	Field Stre	Measurement	
Frequency of Emission (MHz)	μV/m	dΒμV/m	Distance (meters)
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

DongGuan City, GuangDong, P.R.China

Phone: 86-769-3897 5958; Fax: 86-769-38975968; E-mail:ats@dgats.com

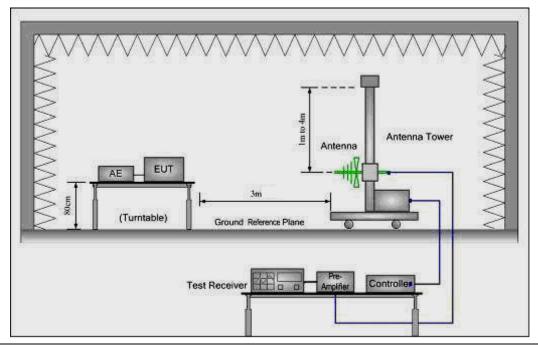


5.3.2 Test setup



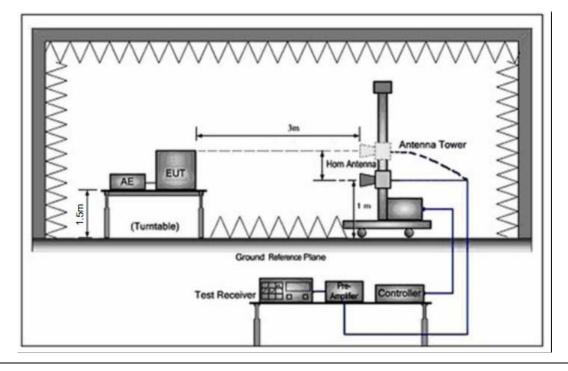


2) 30 MHz to 1 GHz emissions:



17 / 64

3) 1 GHz to 25 GHz emissions:



Report No.: ATSE170205221 18 / 64



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.

DongGuan City, GuangDong, P.R.China

Report No.: ATSE170205221 19 / 64



5.3.4 Test Result

Radiated Emissions Test Data Below 30MHz

EUT:	Waterproof Wireless Speaker	Model Name:	Rokpod			
Temperature:	25 ℃	Test Data	2017-02-26			
Pressure:	1005 hPa	Relative Humidity:	60%			
Test Mode :	TX	Test Voltage:	3.7Vdc from battery			
Measurement Distance	3 m	Frenqucy Range	9KHz to 30MHz			
RBW/VBW	9KHz~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:	Waterproof Wireless Speaker	Model Name:	Rokpod
Temperature:	25 ℃	Test Data	2017-02-26
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	TX (1Mbps) CH00 (worst case)	Test Voltage:	3.7Vdc from battery
Measurement Distance	3 m	Frenqucy Range	30MHz to 1GHz
RBW/VBW	RBW=120KHz/ VBW=300KHz		

20 / 64

(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Over	Detector Type
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	
	(dBuV)	(dB)	(dBuV/m)			
58.39908	32.87	-19.35	13.52	40	-26.48	QP
123.27893	31.04	-13.39	17.65	43.5	-25.85	QP
193.48319	34.8	-14.54	20.26	43.5	-23.24	QP
307.78928	32.18	-10.96	21.22	46	-24.78	QP

(b) Antenna polarization: vertical

Frequency	Reading	Correct	Measure	Limit	Over	Detector Type
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	
	(dBuV)	(dB)	(dBuV/m)			
101.4749	27.13	-15.89	11.24	43.5	-32.26	QP
182.94516	32.63	-11.10	21.53	43.5	-21.97	QP
291.17756	34	-10.20	23.80	46	-22.20	QP
395.91708	32.95	-6.79	26.16	46	-19.84	QP

Note:

Measurement Level = Reading Level + Factor

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



Radiated Emissions Test Data Above 1GHz

EUT:	Waterproof Wireless Speaker	Model Name:	Rokpod
Temperature:	25 ℃	Test Data	2017-02-26
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode:	1Mbps	Test Voltage:	3.7Vdc from battery
Measurement Distance	3 m	Frenqucy Range	1GHz to 25GHz
RBW/VBW	Spurious emission: 1MHz/3MHz fo	r Peak, 1MHz/10Hz	PK detector is for AV value

(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	51.21	5.06	56.27	74.00	-17.73	peak
4804.00	38.20	5.06	43.26	54.00	-10.74	AVG
7206.00	43.91	7.03	50.94	74.00	-23.06	peak
7206.00	36.61	7.03	43.64	54.00	-10.36	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	51.25	5.06	56.31	74.00	-17.69	peak
4804.00	39.15	5.06	44.21	54.00	-9.79	AVG
7206.00	44.39	7.03	51.42	74.00	-22.58	peak
7206.00	36.73	7.03	43.76	54.00	-10.24	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

Phone: 86-769-3897 5958; Fax: 86-769-38975968; E-mail:ats@dgats.com



(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	52.40	5.14	57.54	74.00	-16.46	peak
4882.00	40.28	5.14	45.42	54.00	-8.58	AVG
7323.00	43.00	7.54	50.54	74.00	-23.46	peak
7323.00	35.40	7.54	42.94	54.00	-11.06	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	51.22	5.14	56.36	74.00	-17.64	peak
4882.00	38.99	5.14	44.13	54.00	-9.87	AVG
7323.00	43.87	7.54	51.41	74.00	-22.59	peak
7323.00	36.47	7.54	44.01	54.00	-9.99	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	50.87	5.22	56.09	74.00	-17.91	peak
4960.00	37.88	5.22	43.10	54.00	-10.90	AVG
7440.00	42.79	8.06	50.85	74.00	-23.15	peak
7440.00	35.98	8.06	44.04	54.00	-9.96	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	50.96	5.22	56.18	74.00	-17.82	peak
4960.00	37.86	5.22	43.08	54.00	-10.92	AVG
7440.00	42.80	8.06	50.86	74.00	-23.14	peak
7440.00	36.10	8.06	44.16	54.00	-9.84	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:	Waterproof Wireless Speaker	Model Name:	Rokpod			
Temperature:	25 ℃	Test Data	2017-02-27			
Pressure:	1010 hPa	Relative Humidity:	60%			
Test Mode :	3Mbps	Test Voltage:	3.7Vdc from battery			
Measurement Distance	3 m	Frenqucy Range	1GHz to 25GHz			
RBW/VBW	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz PK detector is for AV value.					

24 / 64

(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	53.80	5.06	58.86	74.00	-15.14	peak
4804.00	41.52	5.06	46.58	54.00	-7.42	AVG
7206.00	47.74	7.03	54.77	74.00	-19.23	peak
7206.00	34.18	7.03	41.21	54.00	-12.79	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	53.84	5.06	58.90	74.00	-15.10	peak
4804.00	42.47	5.06	47.53	54.00	-6.47	AVG
7206.00	48.22	7.03	55.25	74.00	-18.75	peak
7206.00	34.30	7.03	41.33	54.00	-12.67	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	54.99	5.14	60.13	74.00	-13.87	peak
4882.00	43.60	5.14	48.74	54.00	-5.26	AVG
7323.00	46.83	7.54	54.37	74.00	-19.63	peak
7323.00	32.97	7.54	40.51	54.00	-13.49	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	53.00	5.14	58.14	74.00	-15.86	peak
4882.00	42.82	5.14	47.96	54.00	-6.04	AVG
7323.00	45.41	7.54	52.95	74.00	-21.05	peak
7323.00	32.50	7.54	40.04	54.00	-13.96	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	52.65	5.22	57.87	74.00	-16.13	peak
4960.00	41.71	5.22	46.93	54.00	-7.07	AVG
7440.00	44.33	8.06	52.39	74.00	-21.61	peak
7440.00	32.01	8.06	40.07	54.00	-13.93	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	52.74	5.22	57.96	74.00	-16.04	peak
4960.00	41.69	5.22	46.91	54.00	-7.09	AVG
7440.00	44.34	8.06	52.40	74.00	-21.60	peak
7440.00	32.13	8.06	40.19	54.00	-13.81	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:	Waterproof Wireless Speaker	Model Name:	Rokpod			
Temperature:	25 ℃	Test Data	2017-02-27			
Pressure:	1010 hPa	Relative Humidity:	60%			
Test Mode :	TX 1Mbps\ 3Mbps	Test Voltage :	3.7Vdc from battery			
RBW/VBW	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz PK detector is for AV value.					
	 The transmitter was setup to strength was measured at 23° The transmitter was setup to strength was measured at 248 The data of 2390MHz and 248 	10-2390 MHz. transmit at the highe 33.5-2500 MHz.	st channel. Then the field			

Test	Ant Dol	Eroa	Reading		Ant/CE	Act		Limit	
	Ant.Pol. H/V	Freq.	Peak	AV	Ant/CF CF(dB)	Peak	AV	Peak	AV
Mode	П/ V	(MHz)	(dBuv)	(dBuv)	CF(ub)	(dBuv/m)	(dBuv/m)	(dBuv/m)	(dBuv/m)
	V	2390.0	45.22	34.07	-5.79	39.43	28.28	74.00	54.00
Data rate	Н	2390.0	43.53	32.48	-5.79	37.74	26.69	74.00	54.00
1Mbps	V	2483.5	44.78	32.19	-4.98	39.80	27.21	74.00	54.00
	Н	2483.5	41.78	30.57	-4.98	36.80	25.59	74.00	54.00
	V	2390.0	41.78	30.06	-5.79	35.99	24.27	74.00	54.00
Data rate 3Mbps	Н	2390.0	45.08	34.19	-5.79	39.29	28.40	74.00	54.00
	V	2483.5	43.60	32.52	-4.98	38.62	27.54	74.00	54.00
	Н	2483.5	44.50	31.57	-4.98	39.52	26.59	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.

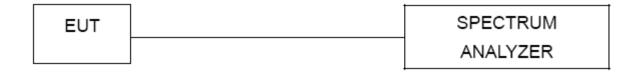
5.4.2 Test procedure

- 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 ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW, Sweep = auto, Detector function = peak Trace = max hold

5.4.3 Deviation from standard

No deviation.

5.4.4 Test setup



Report No.: ATSE170205221 29 / 64



5.4.5 Test results

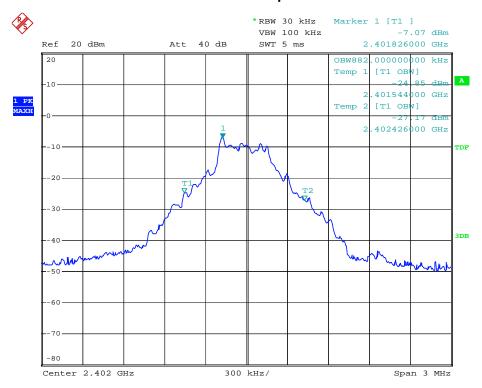
EUT:	Waterproof Wireless Speaker	Model Name:	Rokpod
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	3.7Vdc from battery
Test Mode:	TX 1Mbps/ 3Mbps		

Channel		Channel frenqucy (MHz)	Bandwidth (KHz)	Limit (KHz)	Conclusion
	Low	2402	882	N/A	Pass
1Mbps	Middle	2441	888	N/A	Pass
	High	2480	888	N/A	Pass
3Mbps	Low	2402	1176	N/A	Pass
	Middle	2441	1176	N/A	Pass
	High	2480	1182	N/A	Pass

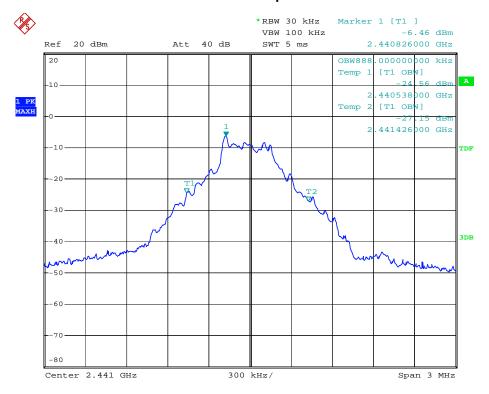


CH00-1Mbps

30 / 64



CH 39-1Mbps

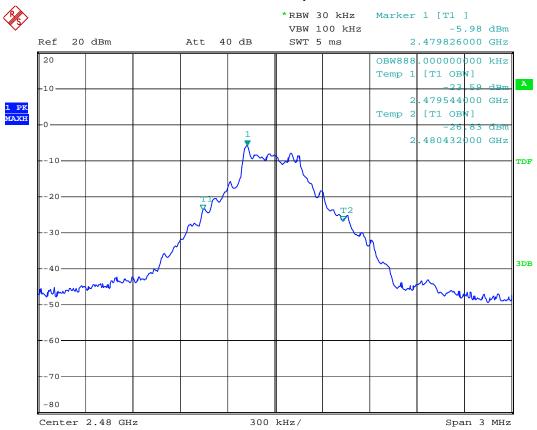


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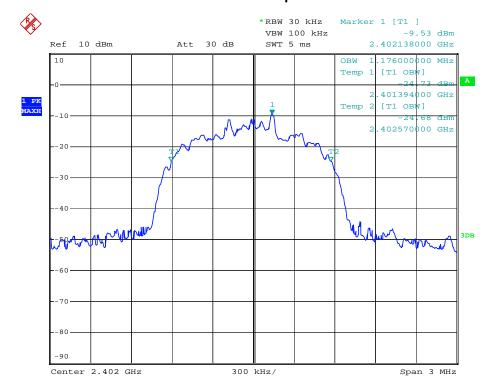




31 / 64



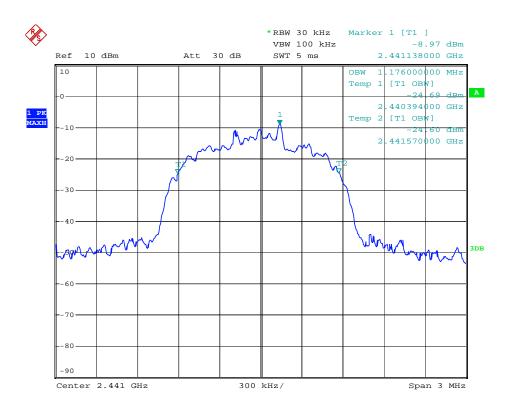
CH 00-3Mbps



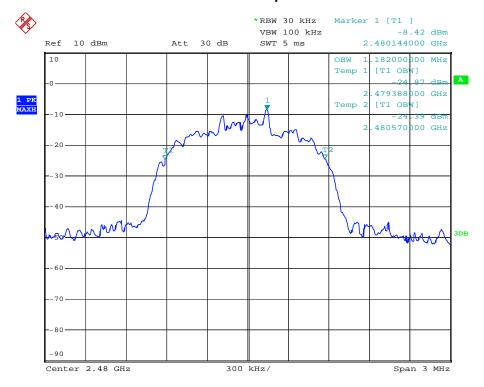


CH 39-3Mbps

32 / 64



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

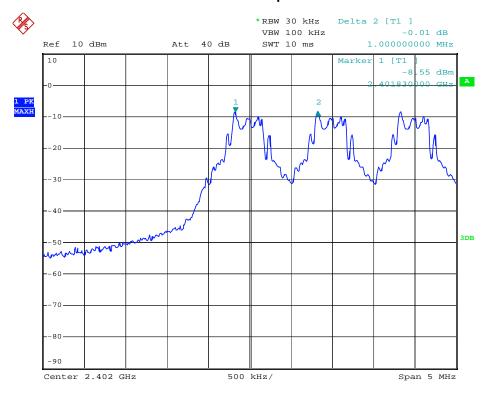
EUT:	Waterproof Wireless Speaker	Model Name:	Rokpod
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	3.7Vdc from battery
Test Mode:	TX 1Mbps/ 3Mbps		

Channel		Channel frenqucy (MHz)	Channel Separation (MHz)	Conclusion
	Low	2402	1.0	Pass
1Mbps	Middle	2441	1.0	Pass
	Highest	2480	1.0	Pass
	Low	2402	1.0	Pass
3Mbps	Middle	2441	0.99	Pass
	Highest	2480	1.0	Pass

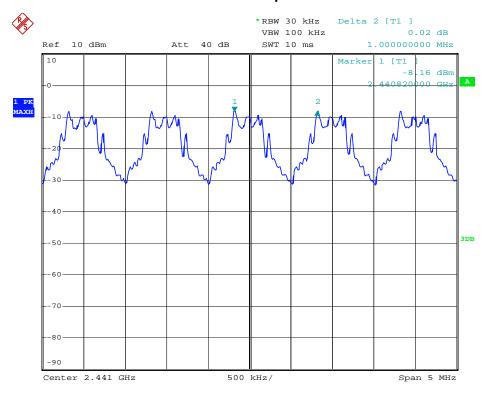
Ch. Separation >2/3(20dB bandwidth)

CH 00-1Mbps

35 / 64

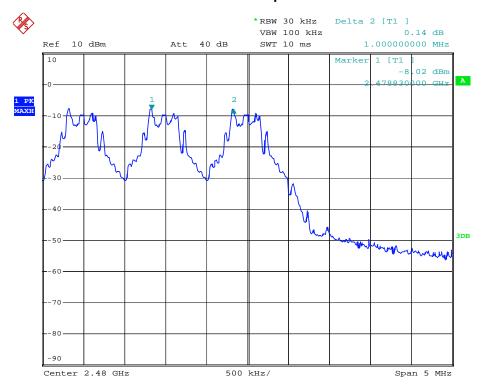


CH 39-1Mbps

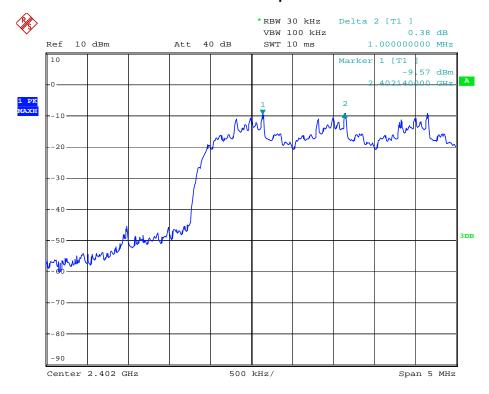




CH 78-1Mbps

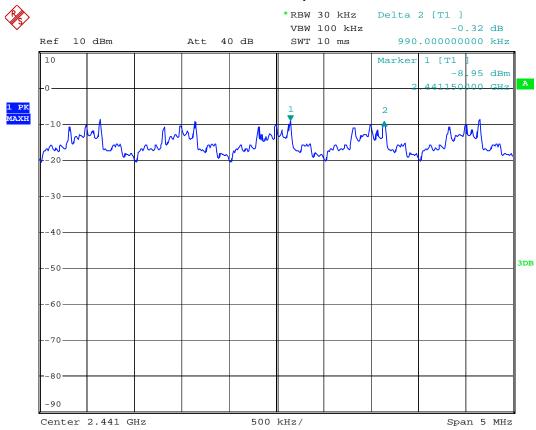


CH 00-3Mbps

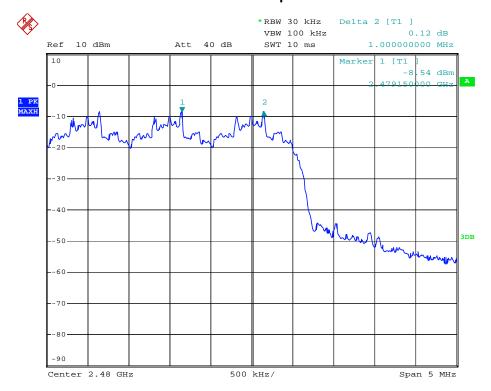








CH 78-3Mbps





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.

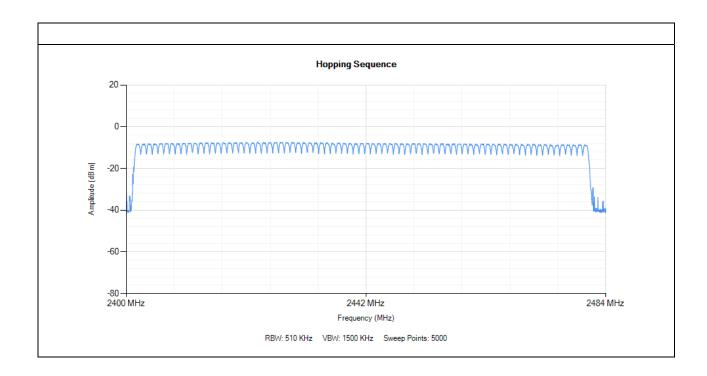
5.6.4 Test setup

EUT	SPECTRUM
	ANALYZER



5.6.5 Test result

Hopping Channel Number result				
Operating Mode: Hopping Mode Test date:2017-02-26				
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



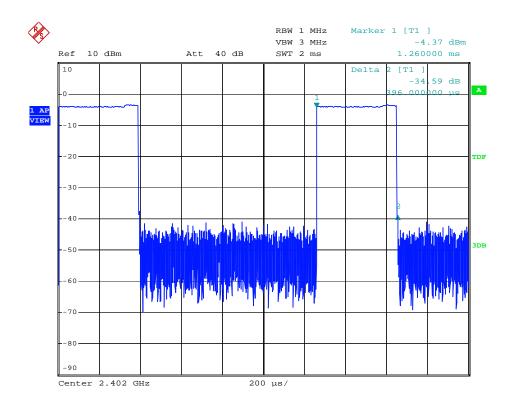


5.7.5 Test result

EUT:	Waterproof Wireless Speaker	Model Name:	Rokpod
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	3.7Vdc from battery
Test Mode:	CH00-DH1/DH3/DH5 (1Mbps Mode)		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2402 MHz	0.396	0.127	0.4000
DH3	2402 MHz	1.660	0.266	0.4000
DH5	2402 MHz	2.900	0.309	0.4000

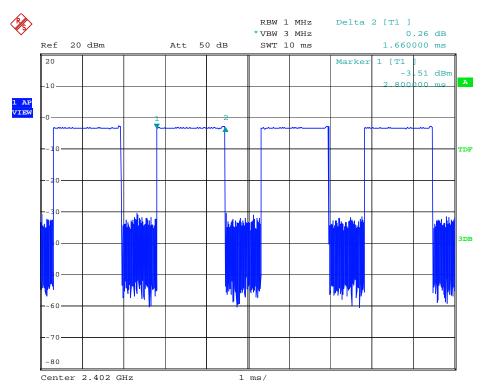
CH 00- DH1



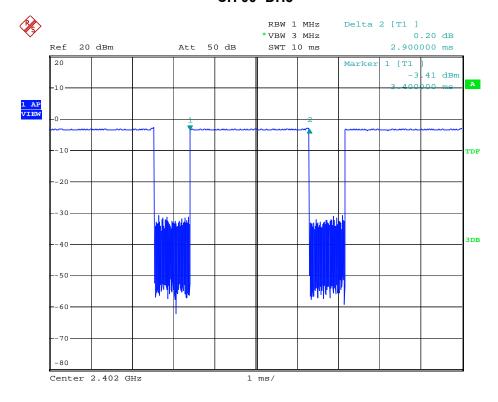




42 / 64



CH 00- DH5

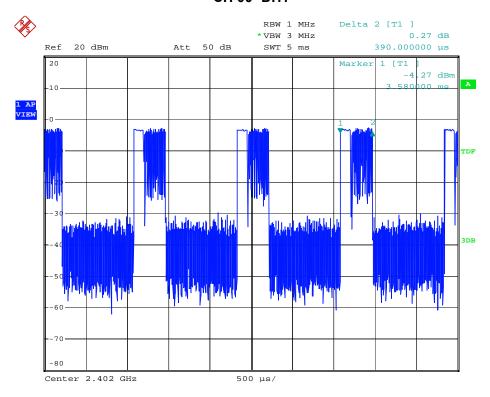




EUT:	Waterproof Wireless Speaker	Model Name:	Rokpod
Temperature:	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	3.7Vdc from battery
Test Mode :	CH00-3DH1/3DH3/3DH5 (3Mbps Mode)		

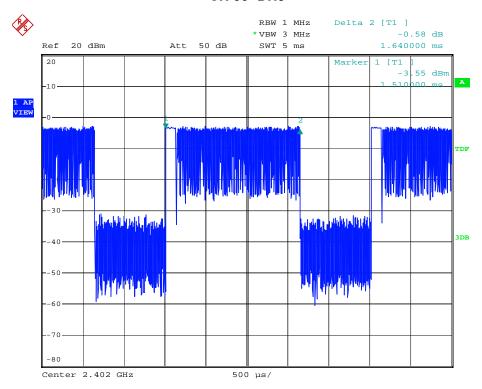
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
3DH1	2402 MHz	0.39	0.125	0.4000
3DH3	2402 MHz	1.64	0.262	0.4000
3DH5	2402 MHz	2.89	0.308	0.4000

CH 00- DH1

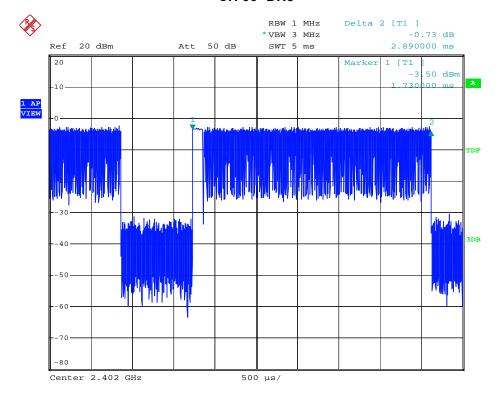








CH 00- DH5





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



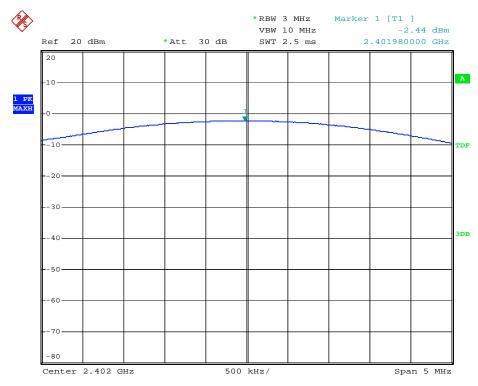
5.8.5 **Test results**

EUT:	Waterproof Wireless Speaker	Model Name:	Rokpod	
Temperature:	26 ℃	Relative Humidity:	60%	
Pressure:	1010 hPa	Test Voltage:	3.7Vdc from battery	
Test Mode:	est Mode : TX			
Note: All the data rates have be tested and the worst-case as the table below.				

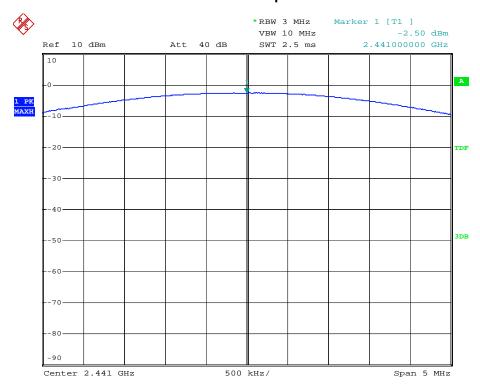
Test Mode	Frequency	Peak Output Power (dBm)	Limit (dBm)	Result
	2402 MHz	-2.44	21	Pass
Data rate 1Mbps	2441 MHz	-2.50	21	Pass
	2480 MHz	-2.04	21	Pass
	2402 MHz	-1.81	21	Pass
Data rate 3Mbps	2441 MHz	-1.44	21	Pass
	2480 MHz	-0.95	21	Pass
Cable loss = 1.0 dBm: Cable loss include in frequency spectrum offset				





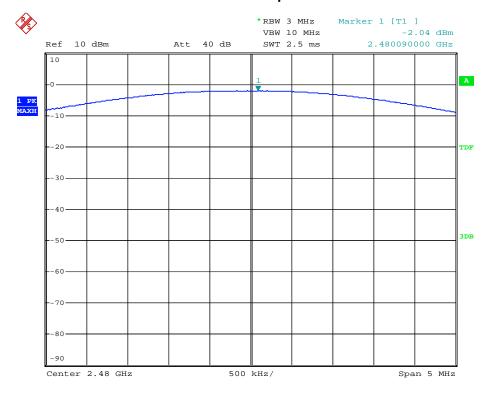


CH 39-1Mbps

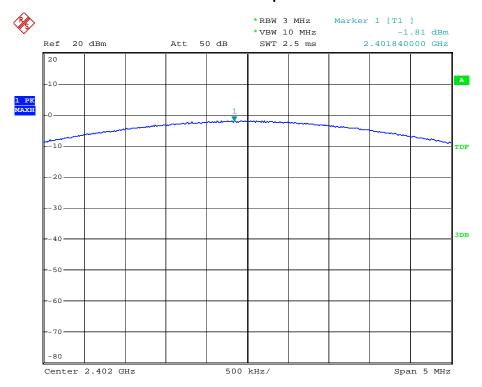




CH 78-1Mbps

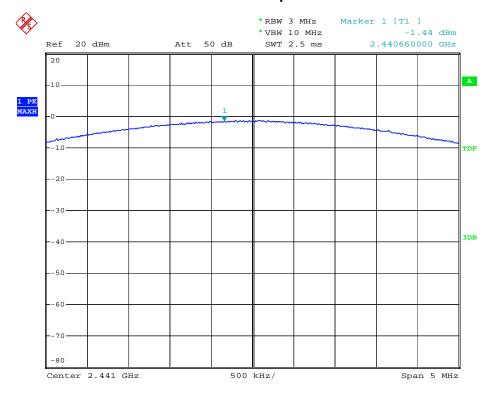


CH 00-3Mbps

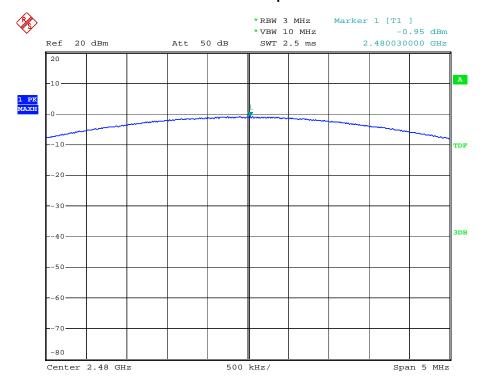




CH 39-3Mbps



CH 78-3Mbps





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)).

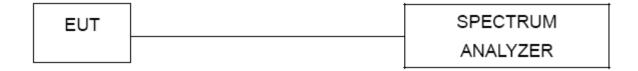
5.9.2 Test procedure

- 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 =300KHz, Sweep = auto, Detector function = peak, Trace = max hold

5.9.3 Deviation from standard

No deviation.

5.9.4 Test setup



NOTE: All modulations have been tested, only worse case is reported

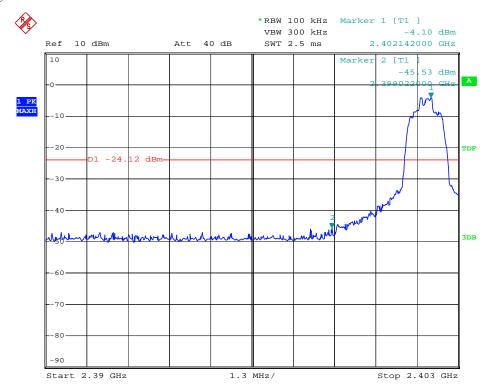
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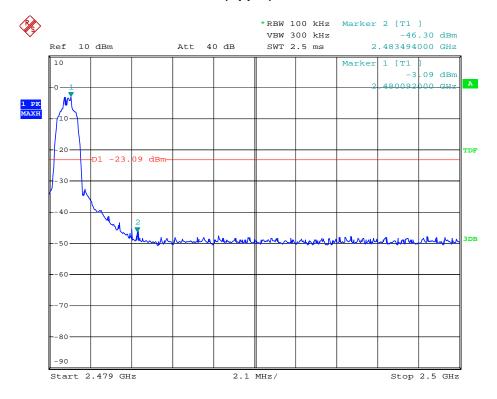
5.9.5 Test results

NON hopping

CH00 (Lower) Data rate



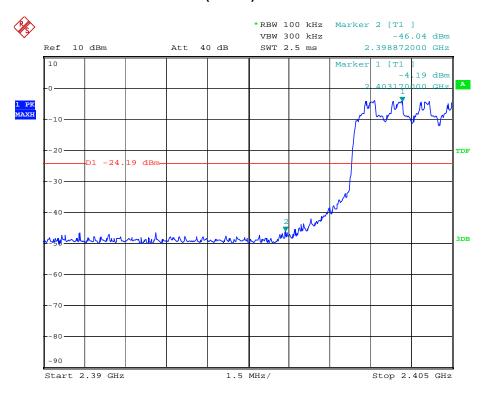
CH 78 (Upper) Data rate



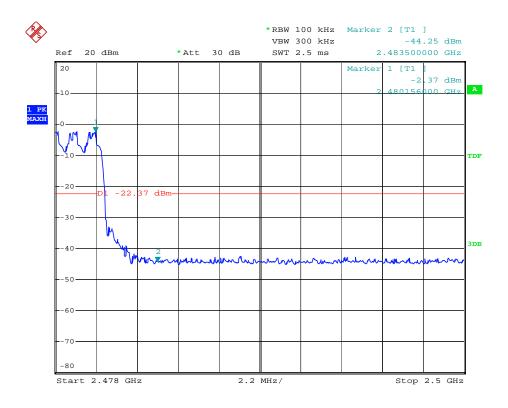


Hopping mode

CH00 (Lower) Data rate



CH 78 (Upper) Data rate





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

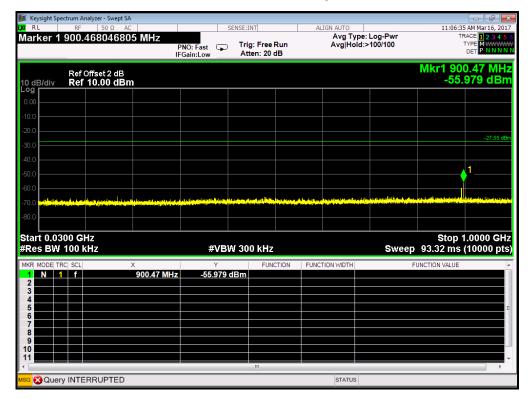
EUT	SPECTRUM
	ANALYZER

DongGuan City, GuangDong, P.R.China

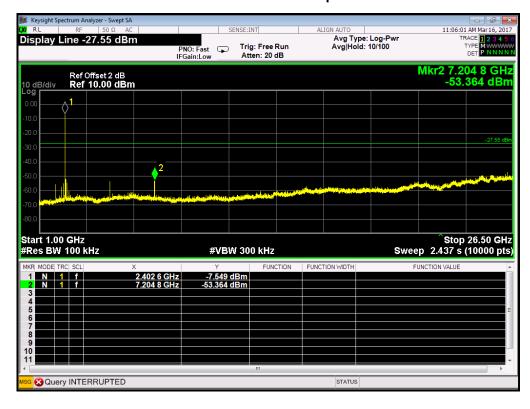


5.10.5Test results

CH00 Data rate 1Mbps



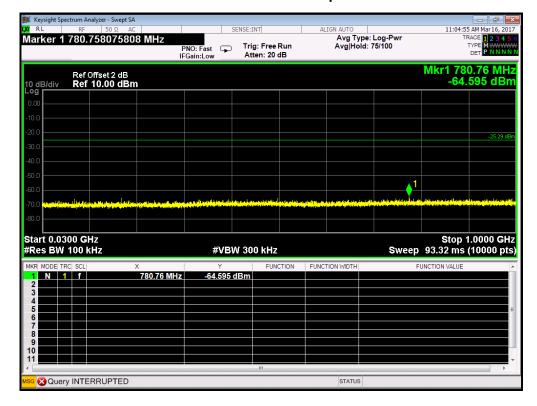
CH00 Data rate 1Mbps



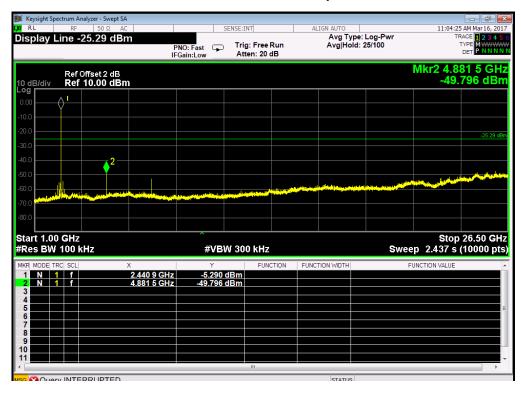
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CH39 Data rate 1Mbps



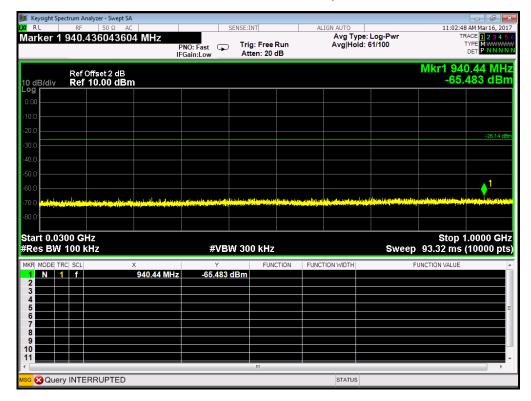
CH39 Data rate 1Mbps



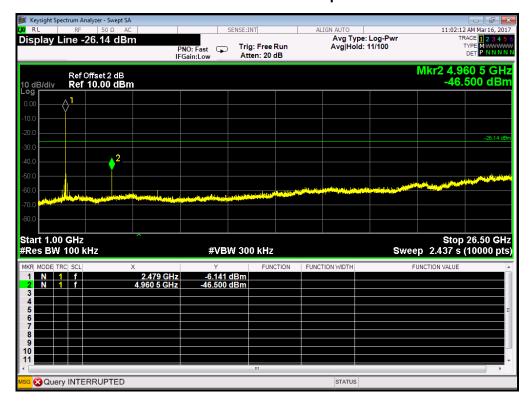
DongGuan City, GuangDong, P.R.China



CH78 Data rate 1Mbps



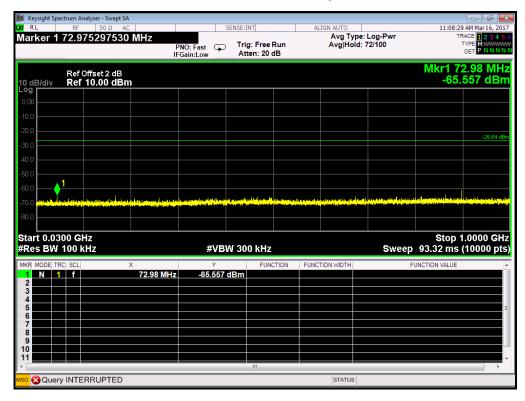
CH78 Data rate 1Mbps



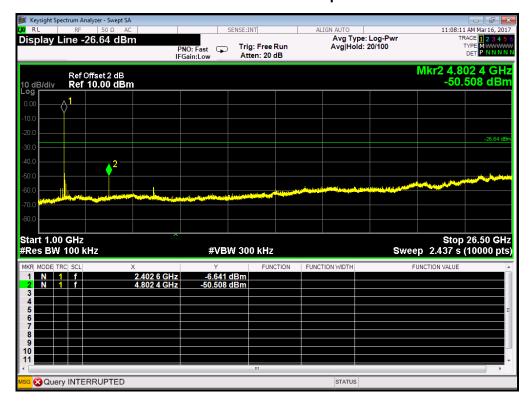
DongGuan City, GuangDong, P.R.China



CH00 Data rate 3Mbps



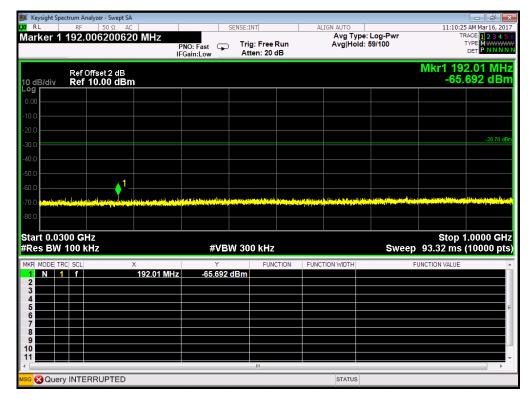
CH00 Data rate 3Mbps



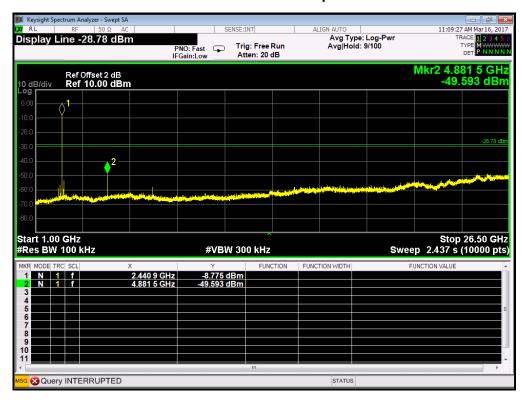
DongGuan City, GuangDong, P.R.China



CH39 Data rate 3Mbps



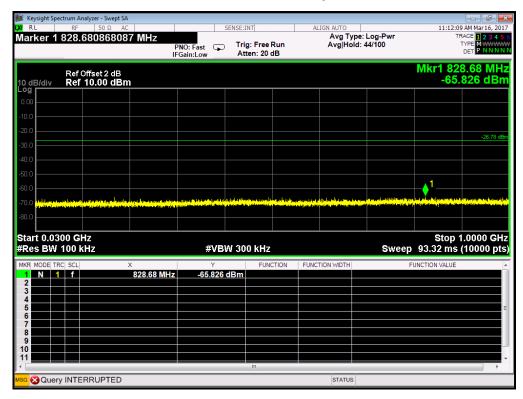
CH39 Data rate 3Mbps



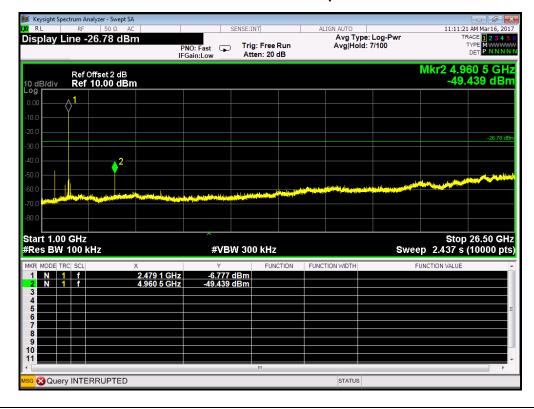
DongGuan City, GuangDong, P.R.China



CH78 Data rate 3Mbps



CH78 Data rate 3Mbps

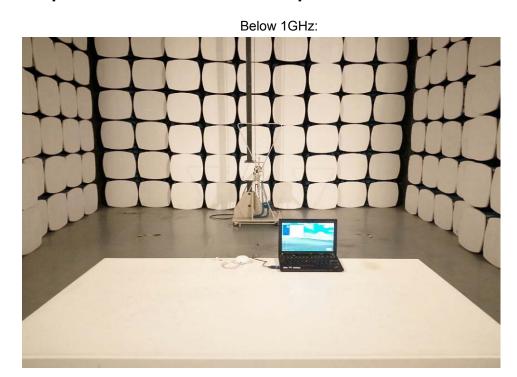


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6 Photographs

6.1 Radiated Spurious Emission Test Setup



Above 1GHz:





6.2 Conducted Emission Test Setup





7 APPENDIX-Photographs of EUT Constructional Details

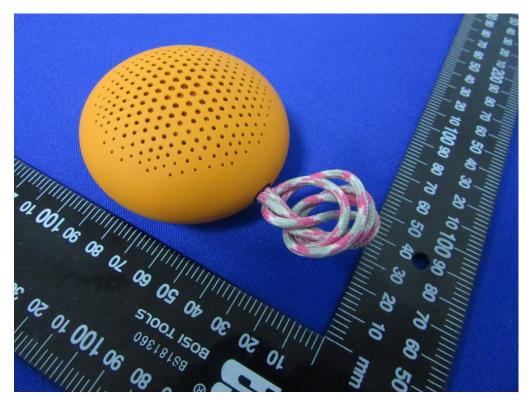
62 / 64

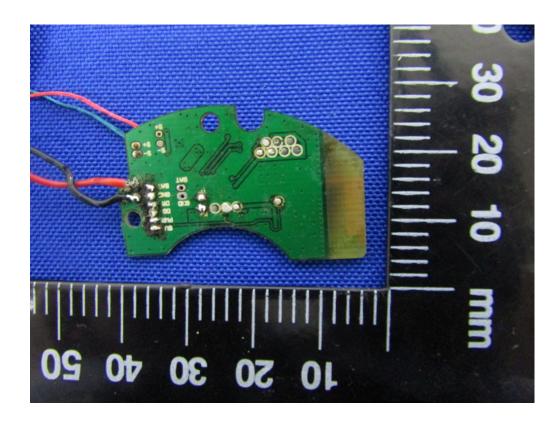




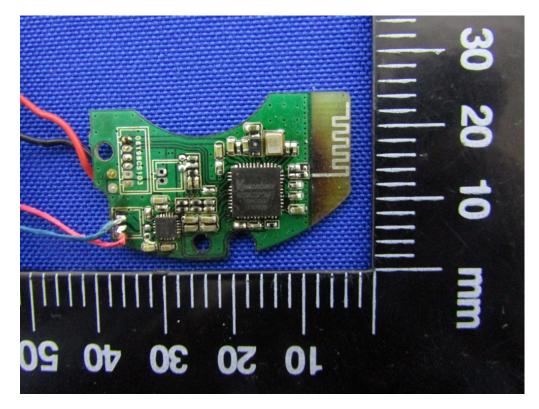








64 / 64



** End of report **