FCC RF TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

Head-Mounted Virtual Reality Equipment

ISSUED TO
Chengdu Idealsee Technology Co., Ltd.

Tower B, New Hope Building, No. 69, Tianfu No. 3 Street, Mid Section, Tianfu Avenue, High-Tech Zone, Chengdu, China

Tested by: Zou Liu
Zou Liu
(Engineer)
Date Jul. 03, 2017

Approved by:
Liao Jianming
(Technical Director)
Date Jul. 03. 2017

Report No.:	BL-SZ1740297-601
EUT Name:	Head-Mounted Virtual Reality Equipment
Model Name:	K2+
Brand Name:	IDEALENS
Test Standard:	47 CFR Part 15 Subpart C
FCC ID:	2AI35-K2
Test conclusion:	Pass
Test Date:	Jul. 10, 2016 ~ Jun. 01, 2017
Date of Issue:	Jul. 03, 2017

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Jul. 03, 2017	Initial Issue

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20 to 25℃
Ambient Relative Humidity	45% - 55%
Ambient Pressure	100 kPa - 102 kPa

1.4 Announce

(1) The test report reference to the report template version v5.6.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.

(5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.

(6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Chengdu Idealsee Technology Co., Ltd.
Address	Tower B, New Hope Building, No.69, Tianfu No.3 Street, Mid Section, Tianfu Avenue, High-Tech Zone, Chengdu, China

2.2 Manufacturer Information

Manufacturer	Chengdu Idealens Technology Co., Ltd.
Address	Room 101, Building C2, District C of Tianfu Software Park, No.219 of Tianhua 2nd Road, High-tech Zone, Chengdu, Sichuan, China

2.3 Factory Information

Factory	Foxconn science and Ji Zhun Precision Industry(Huizhou) Co., Ltd.
Address	Ditch Village, Longxi Town, Boluo County, Huizhou City, Guangdong Province.

2.4 General Description for Equipment under Test (EUT)

EUT Name	Head-Mounted Virtual Reality Equipment
Model Name Under Test	K2+
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	P2
Software Version	0.7.0.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
Network and Wireless connectivity	Bluetooth 3.0, Bluetooth 4.0 Low Energy (BLE) WIFI 802.11a, 802.11b, 802.11g and 802.11n(HT20/40), 802.11ac

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	IDEALENS
	Model No.	904764P
	Serial No.	N/A
	Capacitance	3800 mAh
	Rated Voltage	3.8 V
	Limited Voltage	4.35 V
Ancillary Equipment 2	Charger	
	Brand Name	IDEALENS
	Model No.	TUUS050200-L00
	Serial No.	N/A
	Rated Input	100-240 V~, 0.35 A, 50/60 Hz
	Rated Output	5 V⎓, 2 A
Ancillary Equipment 3	USB Data Cable	
	Length	1.0 m

2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	FHSS
Modulation Type	GFSK, ∏/4-DQPSK, 8-DPSK
Product Type	☒ Fix Location
Transfer Rate	DH5: 1 Mbps 2DH5: 2 Mbps 3DH5: 3 Mbps
Frequency Range	The frequency range used is 2400 MHz to 2483.5 MHz.
Number of channel	79 (at intervals of 1 MHz)
Tested Channel	0 (2402 MHz), 39 (2441 MHz), 78 (2480 MHz)
Antenna Type	Coupling Ceramics Antenna
Antenna Gain	3 dBi (All involve the antenna gain test item, has been included in the final results)
Antenna System(MIMO Smart Antenna)	N/A

All channel was listed on the following table:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
0	**2402**	21	2423	42	2444	63	2465
1	2403	22	2424	43	2445	64	2466
2	2404	23	2425	44	2446	65	2467
3	2405	24	2426	45	2447	66	2468
4	2406	25	2427	46	2448	67	2469
5	2407	26	2428	47	2449	68	2470
6	2408	27	2429	48	2450	69	2471
7	2409	28	2430	49	2451	70	2472
8	2410	29	2431	50	2452	71	2473
9	2411	30	2432	51	2453	72	2474
10	2412	31	2433	52	2454	73	2475
11	2413	32	2434	53	2455	74	2476
12	2414	33	2435	54	2456	75	2477
13	2415	34	2436	55	2457	76	2478
14	2416	35	2437	56	2458	77	2479
15	2417	36	2438	57	2459	**78**	**2480**
16	2418	37	2439	58	2460	-	-
17	2419	38	2440	59	2461	-	-
18	2420	**39**	**2441**	60	2462	-	-
19	2421	40	2442	61	2463	-	-
20	2422	41	2443	62	2464	-	-

2.7 Additional Instructions

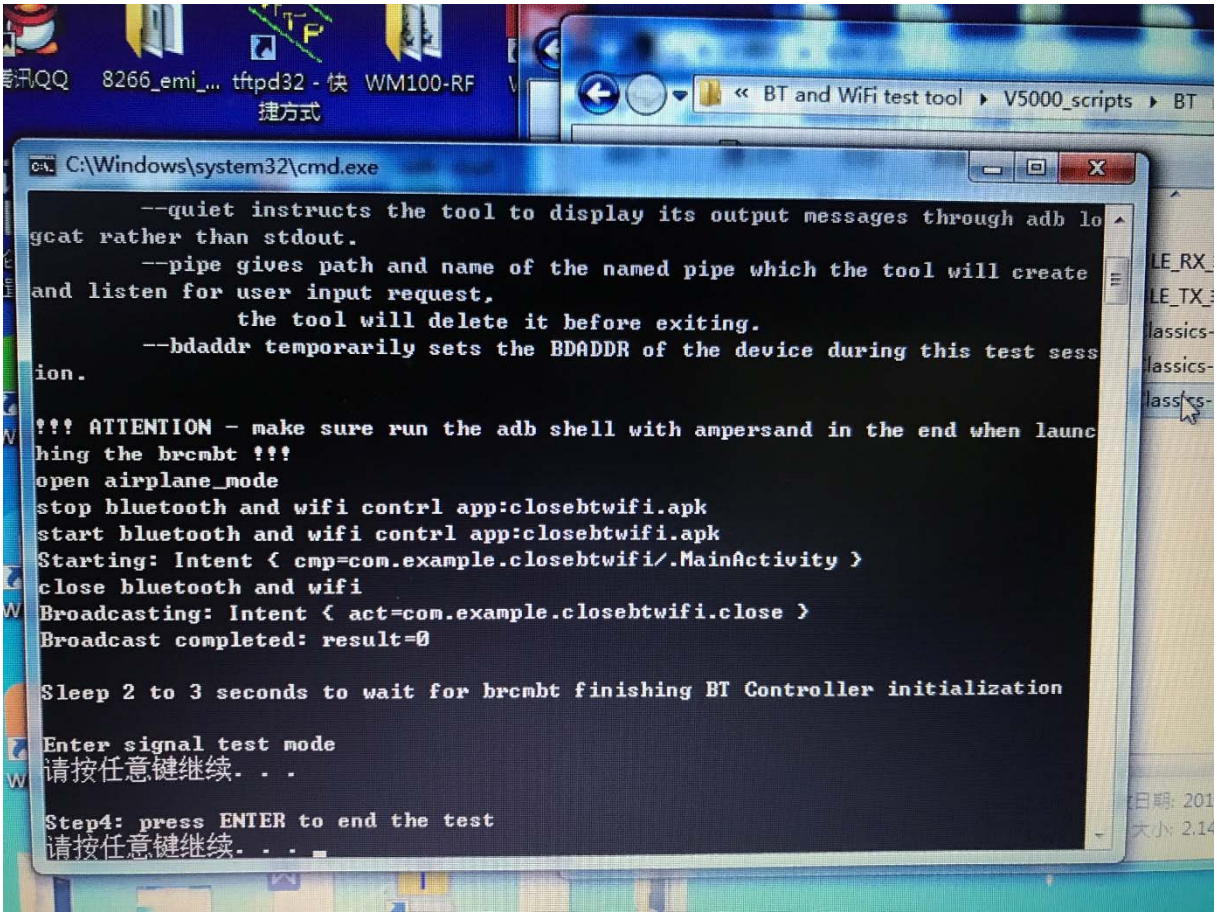
EUT Software Settings:

Mode	☒ Bluetooth test mode loop back enabled. EUT is controlled over CBT / CMU.

Power level setup in software			
Test Software Version	ADB command		
Support Units (Software installation media)	Description	Manufacturer	Model
	Notebook	Dell	X220
	USB Cable	N/A	N/A

Mode	Channel	Frequency (MHz)	Soft Set
DH5	CH0	2402	TX LEVEL is built-in set parameters and cannot be changed and selected.
	CH39	2441	
	CH78	2480	
2DH5	CH0	2402	
	CH39	2441	
	CH78	2480	
3DH5	CH0	2402	
	CH39	2441	
	CH78	2480	

Run Software:



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-15 Edition)	Miscellaneous Wireless Communications Services
2	FCC PUBLIC NOTICE DA 00-705 (Mar. 30, 2000)	Filling and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Channel	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	N/A	--	Pass	Note 1
2	Number of Hopping Frequencies	15.247(a)	Hopping Mode	ANNEX A.1	Pass	Note 2
3	Peak Output Power	15.247(b)	Low/Middle/High	ANNEX A.2	Pass	--
4	Occupied Bandwidth	15.247(a)	Low/Middle/High	ANNEX A.3	Pass	Note 2
5	Carrier Frequency Separation	15.247(a)	Hopping Mode	ANNEX A.4	Pass	Note 2
6	Time of Occupancy (Dwell time)	15.247(a)	Hopping Mode	ANNEX A.5	Pass	Note 2
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	Low/Middle/High	ANNEX A.6	Pass	Note 2
8	Conducted Emission	15.207	Low/Middle/High	ANNEX A.7	Pass	Note 2
9	Radiated Spurious Emission	15.209 15.247(d)	Hopping Mode, Low/Middle/High	ANNEX A.8	Pass	Note 2
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	Hopping Mode, Low/Middle/High	ANNEX A.9	Pass	Note 2

Note 1: Please refer to section 5.1

Note 2: Because of the modulation of Π/4-DQPSK same as 8-DPSK, and the test results are basically the same with them, so we chose 8-DPSK as a typical representative to appear on the report. Another we will show all the modes on the RF output power test item

Note3: Because of the EUT (Test sample in this report) with the test sample (Test report No. is BL-SZ1660028-602 (which is issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016) just model name, Motherboard and display changes. So the supplement differences in the test just Peak Output Power and Radiated Spurious Emission. Other test items please refer to the report BL-SZ1660028-602 issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	45% - 55%	
Atmospheric Pressure	100 kPa - 102 kPa	
Temperature	NT (Normal Temperature)	+22℃ to +25℃
Working Voltage of the EUT	NV (Normal Voltage)	3.8 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2016.07.13	2017.07.12
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2016.07.13	2017.07.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2016.09.09	2017.09.08
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2016.07.05	2017.07.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2016.07.05	2017.07.04
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2016.07.13	2017.07.12
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2016.07.13	2017.07.12
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2016.07.13	2017.07.12
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2016.07.13	2017.07.12
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2015.07.22	2017.07.21
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2015.07.22	2017.07.21
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21
Test Antenna-Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2015.07.22	2017.07.21
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2019.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2016.08.09	2018.08.08
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2016.07.13	2017.07.12
Power Amplifier	OPHIR RF	5225F	1037	2017.02.17	2018.02.16
Power Amplifier	OPHIR RF	5273F	1016	2017.02.17	2018.02.16
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Feld Strength Meter	Narda	EP601	511WX51129	2017.02.23	2018.02.22
Mouth Simulator	B&K	4227	2423931	2016.11.15	2017.11.14
Sound Calibrator	B&K	4231	2430337	2016.11.09	2017.11.08
Sound Level Meter	B&K	NL-20	00844023	2016.11.11	2017.11.10
Ear Simulator	B&K	4185	2409449	2016.11.15	2017.11.14
Ear Simulator	B&K	4195	2418189	2016.11.15	2017.11.14
Audio analyzer	B&K	UPL 16	100129	2016.11.08	2017.11.07

4.3 Measurement Uncertainty

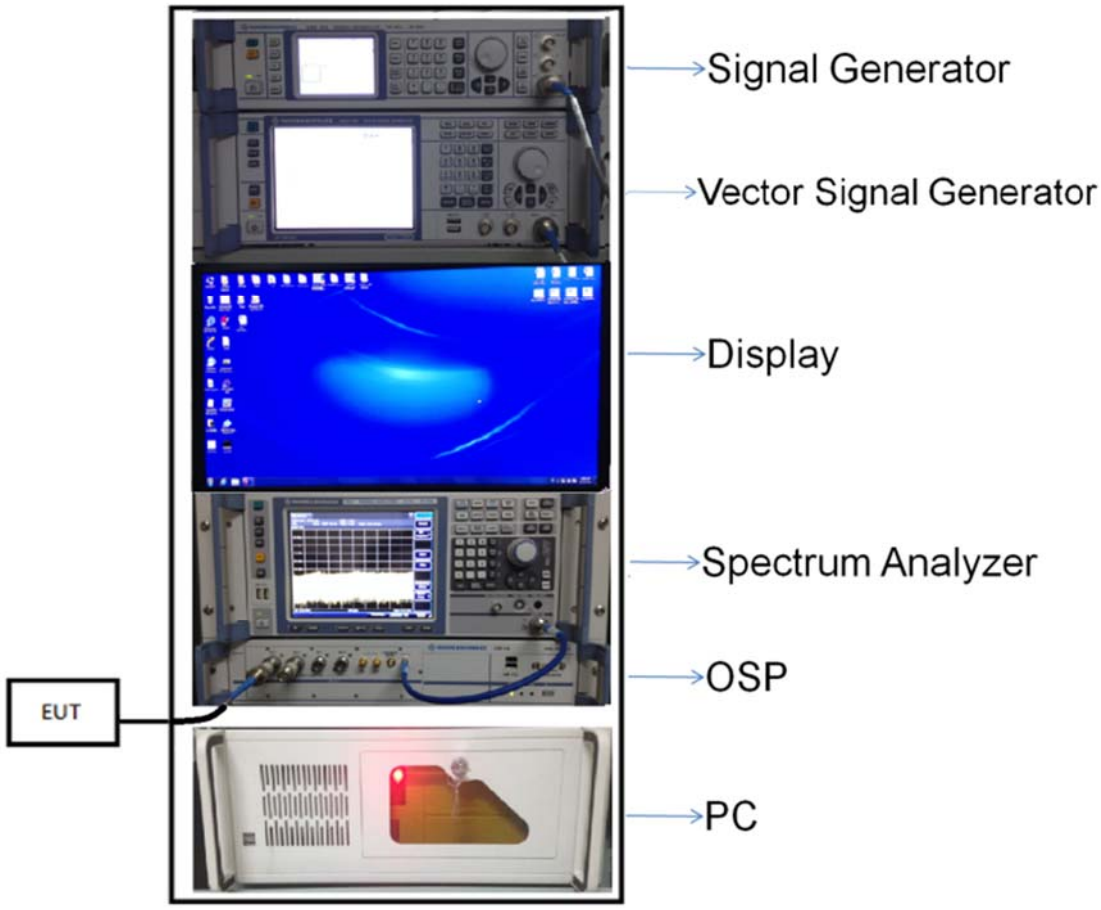
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%

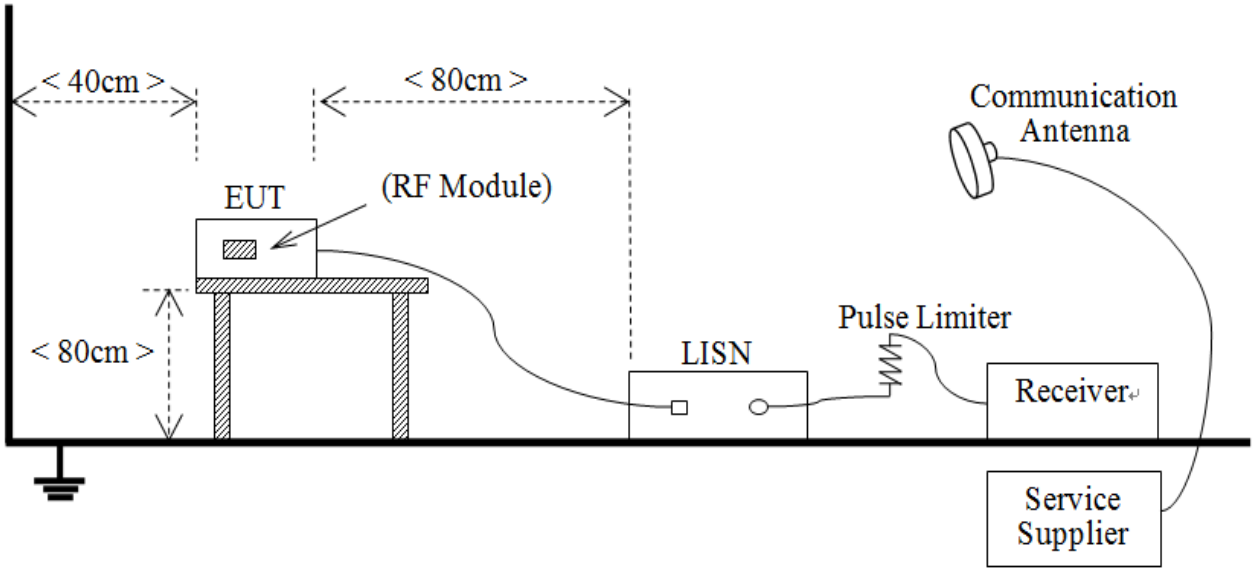
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



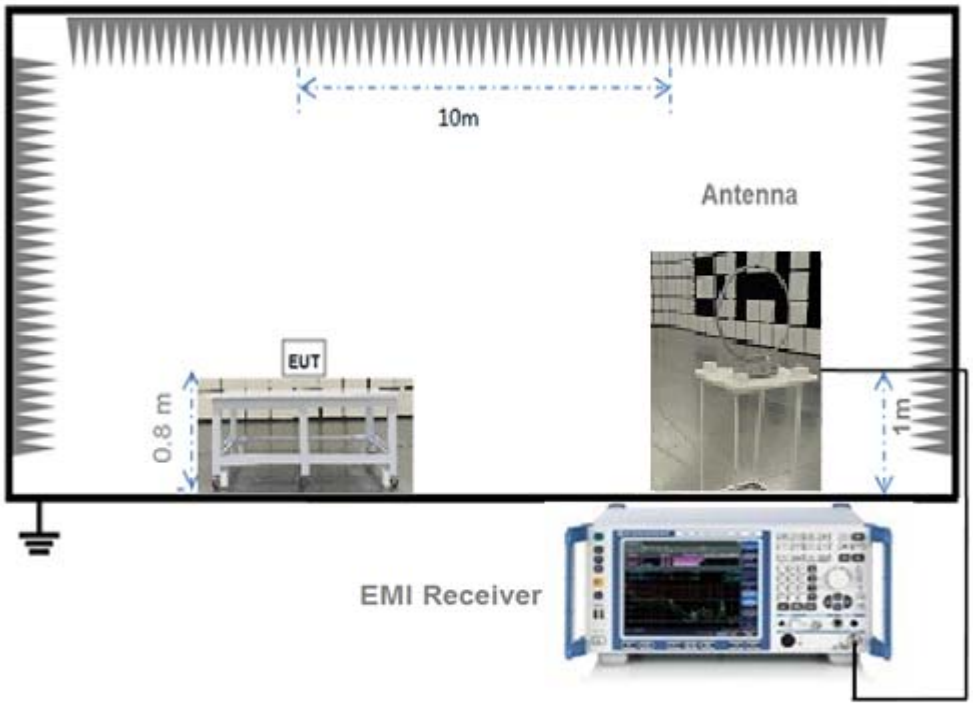
(Diagram 1)

4.4.2 For AC Power Supply Port Test



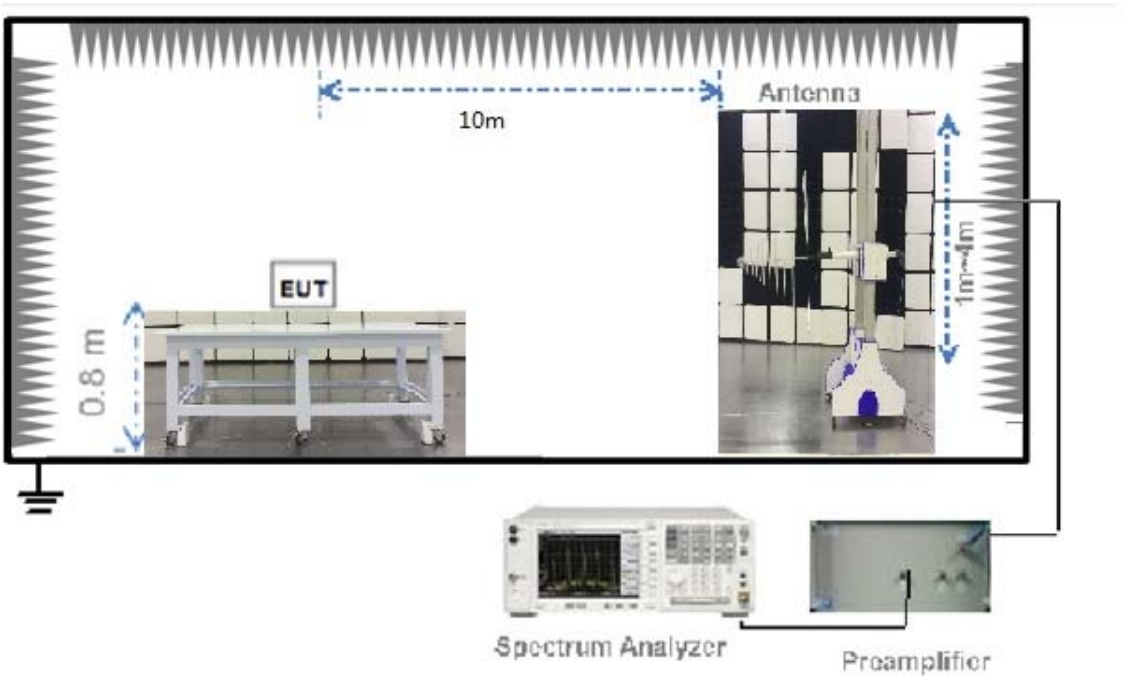
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



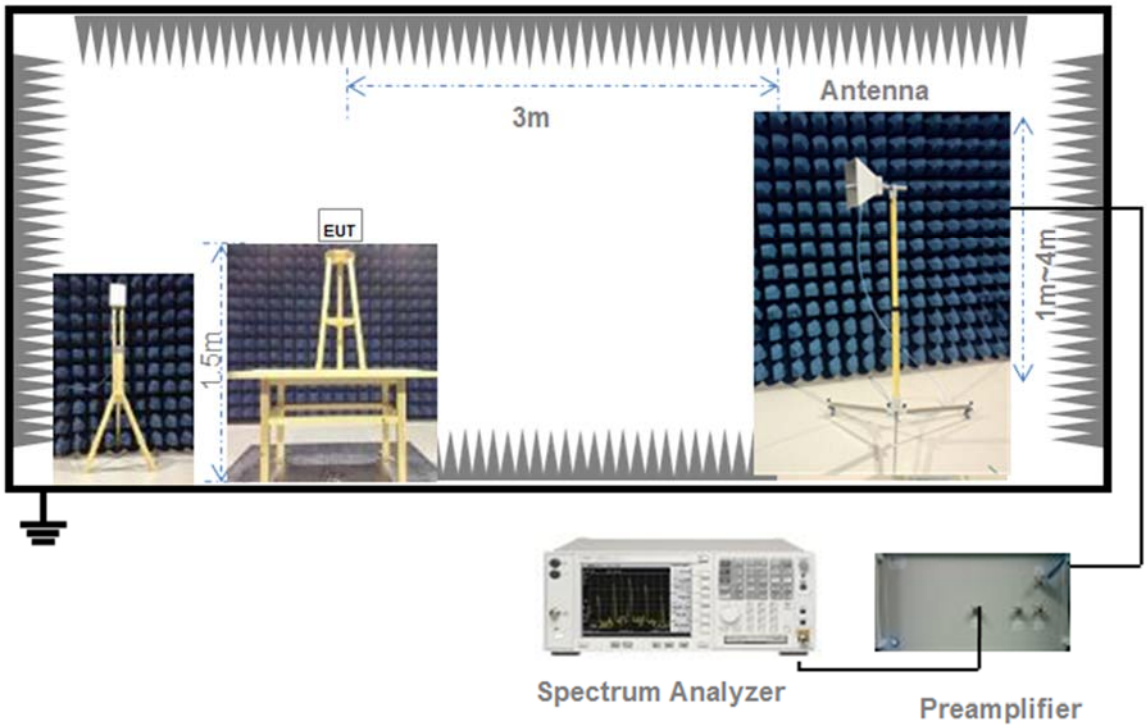
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.

4.5.2 For radiated band edges and spurious emission test:

Per part 15.35(c), the EUT Bluetooth average emission level could be determined by the peak emission level applying duty cycle correction factor, to represent averaging over the whole pulse train.
The average level is derived from the peak level corrected with “Duty cycle correction factor”.
Average Emission Level (dBuV/m) = Peak Emission Level (dBuV/m) + Duty cycle correction factor (dB)
Duty cycle correction factor (dB) = 20 * log (Duty cycle).
Duty cycle = on time / 100 milliseconds
On time = dwell time * hopping number in 100 ms
For example: bluetooth with dwell time 2.9 ms and 3 hops in 100 ms, then
Duty cycle correction factor (dB) = 20 * log ((2.9 * 3) / 100) = -21.21 dB
Following shows an average computation example with duty cycle correction factor = -21.21 dB, and the peak emission level is 45.61 dBuV/m.
Example:
Average Emission Level (dBuV/m) = Peak Emission Level (dBuV/m) + duty cycle correction factor (dB)
= 45.61 + (-21.21) = 24.4 (dBuV/m)

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b); RSS-247, 5.4 (6)

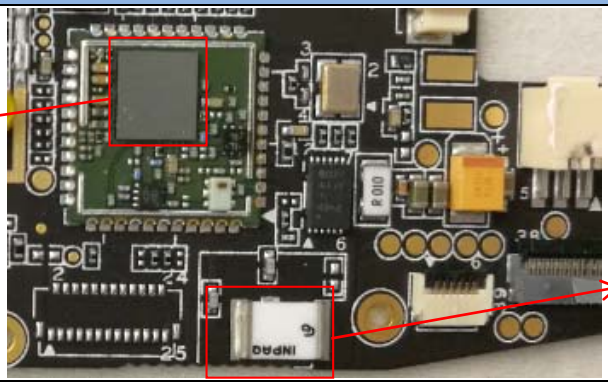
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is An embedded-in	The antenna is welded on the mainboard, can't be replaced by the consumer

Reference Documents	Item
Photo	

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Number of Hopping Frequencies

5.2.1 Limit

FCC §15.247(a) (1) (iii); RSS-247, 5.1 (4)

Frequency hopping systems operating in the 2400 MHz to 2483.5 MHz bands shall use at least 15 hopping frequencies.

5.2.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

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

Span = the frequency band of operation

RBW ≥ 1% of the span

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Peak Output Power and E.I.R.P

5.3.1 Test Limit

FCC § 15.247(b)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

RSS-247, 5.4 (2)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W and the e.i.r.p. shall not exceed 4 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W and the e.i.r.p. shall not exceed 0.5 W if the hopset uses less than 75 hopping channels (see Section 5.4(5) for exceptions).

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Occupied Bandwidth

5.4.1 Limit

FCC §15.247(a); RSS-247, 5.1 (1)

Measurement of the 20dB bandwidth of the modulated signal.

5.4.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW = in the range of 1% to 5% of the OBW

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Carrier Frequency Separation

5.5.1 Limit

FCC §15.247(a); RSS-247, 5.1 (2)

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 shall have hopping channel carrier frequencies separated by a minimum of 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 Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

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

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span

Video (or Average) Bandwidth (VBW) ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

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

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Time of Occupancy (Dwell time)

5.6.1 Limit

FCC §15.247(a); RSS-247, 5.1 (4)

Frequency hopping systems in the 2400 MHz - 2483.5 MHz band shall use at least 15 non-overlapping 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 Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The average time of occupancy on any channel within the Period can be calculated with formulas:

For DH1 package type

{Total of Dwell} = {Pulse Time} * (1600 / 2) / {Number of Hopping Frequency} * {Period}

{Period} = 0.4 s * {Number of Hopping Frequency}

For DH3 package type

{Total of Dwell} = {Pulse Time} * (1600 / 4) / {Number of Hopping Frequency} * {Period}

{Period} = 0.4 s * {Number of Hopping Frequency}

For DH5 package type

{Total of Dwell} = {Pulse Time} * (1600 / 6) / {Number of Hopping Frequency} * {Period}

{Period} = 0.4 s * {Number of Hopping Frequency}

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

5.6.4 Test Result

Please refer to ANNEX A.5

5.7 Conducted Spurious Emission & Authorized-band band-edge

5.7.1 Limit

FCC §15.247(d); RSS-247, 5.5

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.

5.7.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

Use the following spectrum analyzer settings:

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
Allow the trace to stabilize

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Conducted Emission

5.8.1 Limit

FCC §15.207; RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.8.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.
Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Radiated Spurious Emission

5.9.1 Limit

FCC §15.209&15.247(d); RSS-247, 5.5

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.9.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.9.4 Test Result

Please refer to ANNEX A.8.

5.10 Band Edge (Restricted-band band-edge)

5.10.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.10.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

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

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULT

A.1 Number of Hopping Frequency

Note: Number of Hopping Frequency result reference from original test report: BL-SZ1660028-602 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016) A.1 Number of Hopping Frequency.

A.2 Peak Output Power

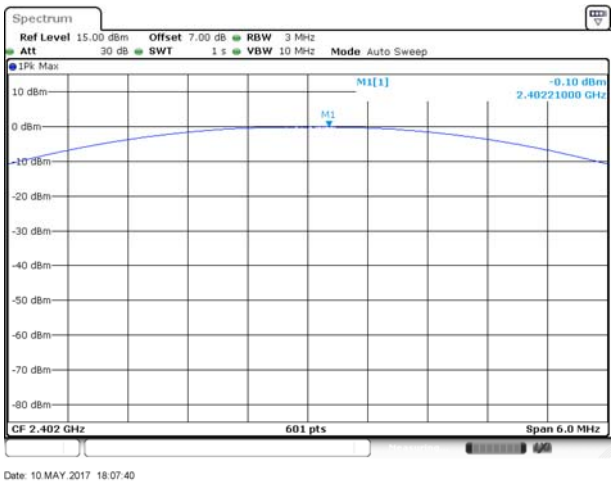
Peak Power Test Data

Channel	Measured Output Peak Power		Limit		Verdict
	GFSK		dBm	mW	
	dBm	mW			
Low	-0.10	0.98	30	1000	Pass
Middle	1.61	1.45			Pass
High	2.26	1.68			Pass

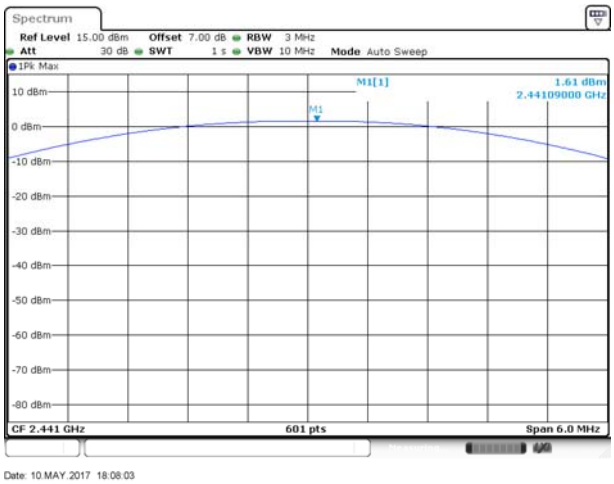
Channel	Measured Output Peak Power				Limit		Verdict
	∏/4-DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW			
Low	-1.32	0.74	-0.78	0.84	21	125	Pass
Middle	0.04	1.01	0.59	1.15			Pass
High	0.44	1.11	1.02	1.26			Pass

Test plots

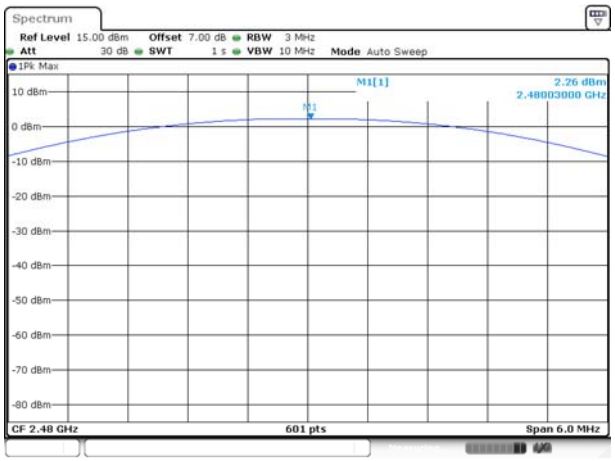
GFSK LOW CHANNEL



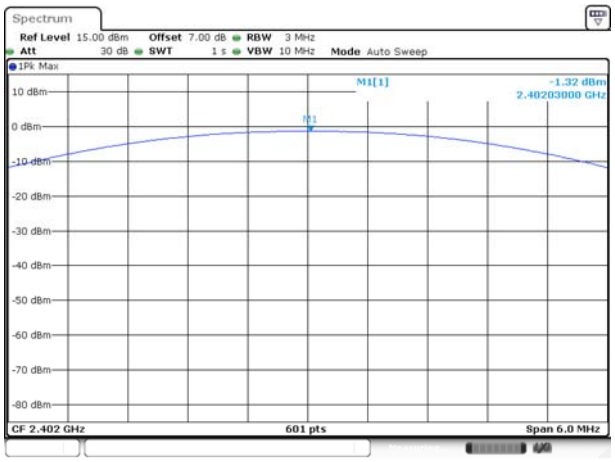
GFSK MIDDLE CHANNEL



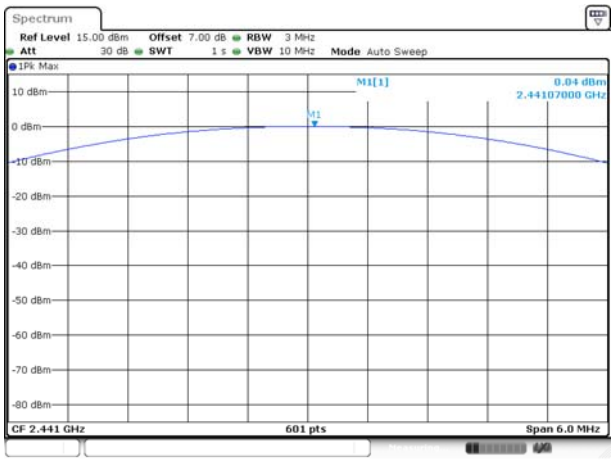
GFSK HIGH CHANNEL



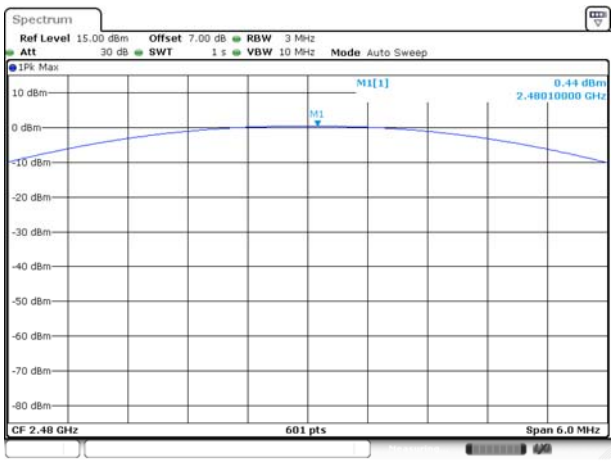
Π/4-DQPSK LOW CHANNEL



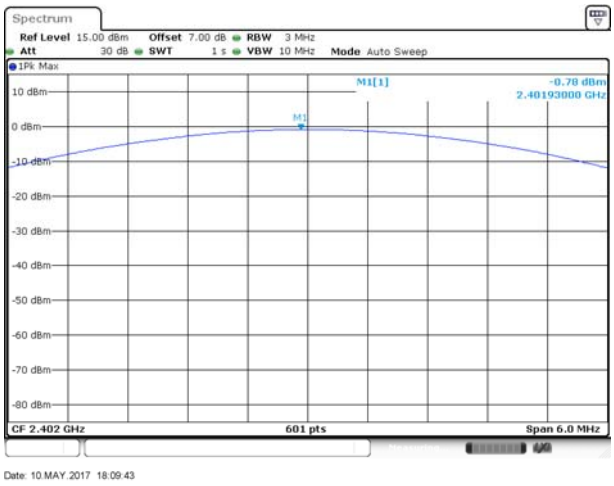
Π/4-DQPSK MIDDLE CHANNEL



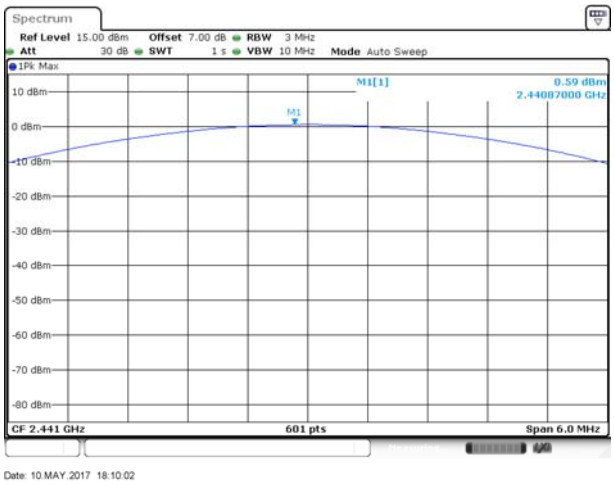
Π/4-DQPSK HIGH CHANNEL



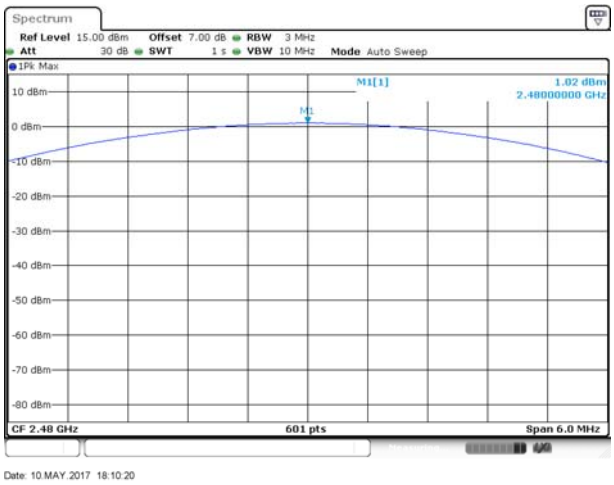
8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



A.3 20 dB and 99% bandwidth

Note: 20 dB and 99% bandwidth result reference from original test report: BL-SZ1660028-602 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016) A.3 20 dB and 99% bandwidth.

A.4 Hopping Frequency Separation

Note: Hopping Frequency Separation result reference from original test report: BL-SZ1660028-602 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016) A.4 Hopping Frequency Separation.

A.5 Average Time of Occupancy

Note: Average Time of Occupancy result reference from original test report: BL-SZ1660028-602 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016) A.5 Average Time of Occupancy.

A.6 Conducted Spurious Emissions & Authorized-band band-edge

Note: Conducted Spurious Emissions & Authorized-band band-edge result reference from original test report: BL-SZ1660028-602 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016) A.6 Conducted Spurious Emissions & Authorized-band band-edge.

A.7 Conducted Emissions

Note: Conducted Emissions result reference from original test report: BL-SZ1660028-602 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016) A.7 Conducted Emissions.

A.8 Radiated Spurious Emission

Test Data and Plots

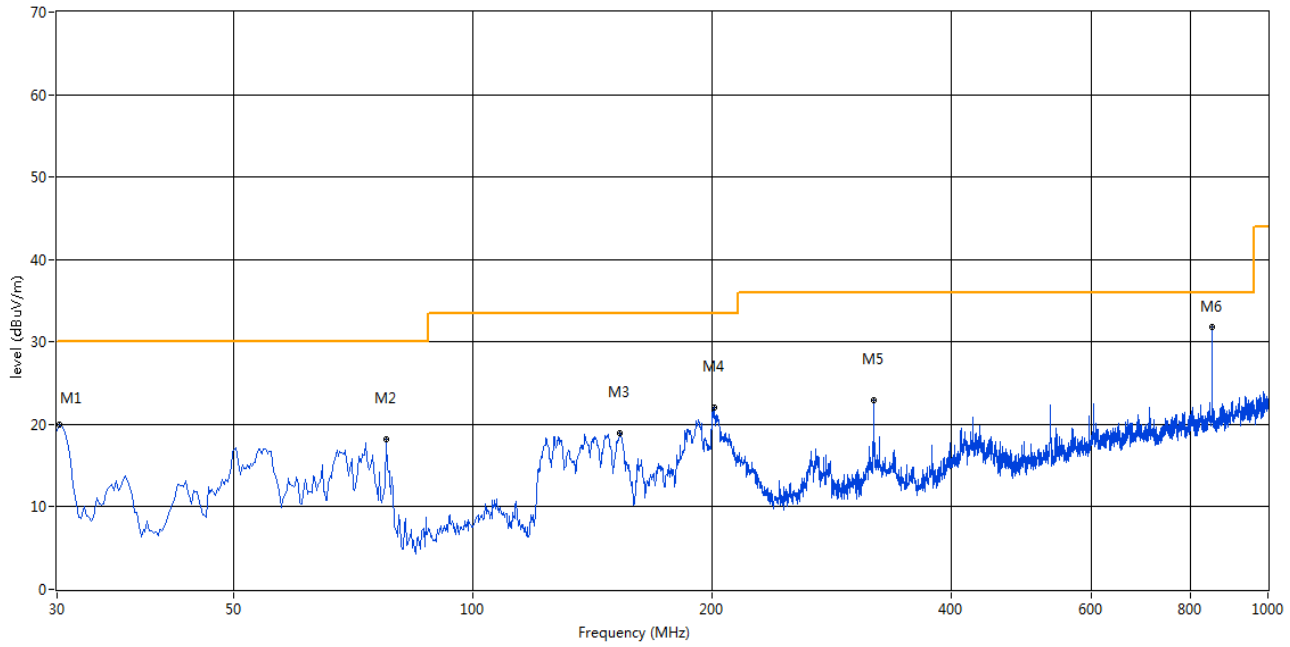
Note [1]: The symbol of "--" in the table which means not application.

Note [2]: For the test data above 1 GHz, according the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [3]: The EUT is working in the Normal link mode below 1 GHz.

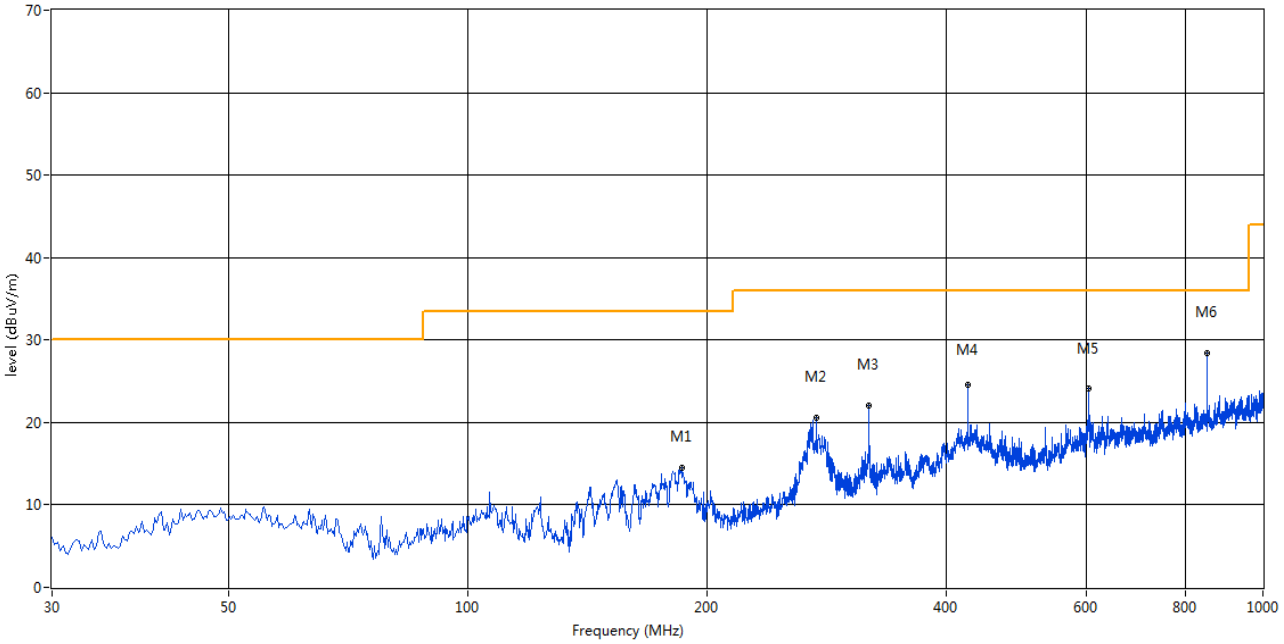
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.242	19.91	-16.50	30.0	10.09	Peak	329.00	100	Vertical	Pass
2	77.761	18.23	-19.42	30.0	11.77	Peak	210.00	200	Vertical	Pass
3	153.159	18.93	-18.60	33.5	14.57	Peak	336.00	200	Vertical	Pass
4	201.405	22.09	-15.03	33.5	11.41	Peak	180.00	100	Vertical	Pass
5	319.473	22.95	-11.78	36.0	13.05	Peak	360.00	200	Vertical	Pass
6	851.870	31.77	-1.63	36.0	4.23	Peak	330.00	200	Vertical	Pass

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	185.889	14.53	-16.37	33.5	18.97	Peak	114.00	200	Horizontal	Pass
2	274.621	20.58	-13.04	36.0	15.42	Peak	336.00	300	Horizontal	Pass
3	319.473	22.08	-11.78	36.0	13.92	Peak	198.00	300	Horizontal	Pass
4	425.904	24.50	-9.05	36.0	11.50	Peak	126.00	200	Horizontal	Pass
5	603.369	24.08	-5.23	36.0	11.92	Peak	0.00	200	Horizontal	Pass
6	851.870	28.45	-1.63	36.0	7.55	Peak	13.00	100	Horizontal	Pass

Test Data and Plots (1 GHz ~ 10th Harmonic)

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

1 GHz to 25 GHz, ANT V GFSK Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1669.82	52.49	-5.92	74	21.51	Peak	66.9	150	Vertical	Pass
2	2402.04	81.74	-2.70	74	-7.74	Peak	228.6	150	Vertical	N/A
3	5536.96	50.87	12.03	74	23.14	Peak	170.7	150	Vertical	Pass
4	6336.94	47.42	15.14	74	26.58	Peak	131.7	150	Vertical	Pass
5	17970.47	41.85	9.44	74	32.16	Peak	111.6	150	Vertical	Pass
6	19009.98	49.05	12.99	74	24.95	Peak	79.3	150	Vertical	Pass

1 GHz to 25 GHz, ANT H GFSK Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1737.48	47.52	-5.75	74	26.48	Peak	25.4	150	Horizontal	Pass
2	2402.54	79.37	-2.72	74	-5.37	Peak	307.9	150	Horizontal	N/A
3	5543.96	51.22	12.10	74	22.78	Peak	256.8	150	Horizontal	Pass
4	7538.69	48.32	16.71	74	25.68	Peak	206.7	150	Horizontal	Pass
5	12334.44	47.64	9.08	74	26.36	Peak	240	150	Horizontal	Pass
6	18459.24	45.50	12.36	74	28.50	Peak	301.1	150	Horizontal	Pass

1 GHz to 25 GHz, ANT V GFSK Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1666.43	52.68	-5.92	74	21.32	Peak	250.3	150	Vertical	Pass
2	2441.37	80.29	-2.72	74	-6.29	Peak	185	150	Vertical	N/A
3	5536.06	51.58	12.04	74	22.43	Peak	176.3	150	Vertical	Pass
4	9346.92	43.86	14.31	74	30.15	Peak	153	150	Vertical	Pass
5	12937.19	45.76	9.07	74	28.24	Peak	94.1	150	Vertical	Pass
6	23382.70	45.61	12.78	74	28.39	Peak	325.7	150	Vertical	Pass

1 GHz to 25 GHz, ANT H GFSK Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1733.99	47.30	-5.78	74	26.70	Peak	227	150	Horizontal	Pass
2	2441.97	79.51	-2.71	74	-5.51	Peak	88.4	150	Horizontal	N/A
3	5546.31	51.57	12.09	74	22.43	Peak	139.8	150	Horizontal	Pass
4	9043.68	43.77	15.05	74	30.23	Peak	262.1	150	Horizontal	Pass
5	14445.09	43.54	9.02	74	30.46	Peak	332	150	Horizontal	Pass
6	19608.99	46.21	10.97	74	27.79	Peak	45.6	150	Horizontal	Pass

1 GHz to 25 GHz, ANT V GFSK High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1669.88	53.38	-5.92	74	20.62	Peak	85.4	150	Vertical	Pass
2	2480.46	80.06	-2.73	74	-6.06	Peak	115.8	150	Vertical	N/A
3	5538.35	50.64	12.04	74	23.37	Peak	139.2	150	Vertical	Pass
4	8560.73	42.29	14.63	74	31.71	Peak	28.1	150	Vertical	Pass
5	15630.62	45.16	10.92	74	28.84	Peak	356.9	150	Vertical	Pass
6	21655.57	46.96	11.59	74	27.04	Peak	244.1	150	Vertical	Pass

1 GHz to 25 GHz, ANT H GFSK High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1734.65	47.34	-5.80	74	26.66	Peak	13.9	150	Horizontal	Pass
2	2480.56	80.50	-2.70	74	-6.50	Peak	102.4	150	Horizontal	N/A
3	5545.34	52.00	12.09	74	22.00	Peak	16.5	150	Horizontal	Pass
4	7841.93	45.81	16.85	74	28.19	Peak	63.5	150	Horizontal	Pass
5	17637.69	45.73	10.68	74	28.28	Peak	272.7	150	Horizontal	Pass
6	20267.89	46.88	9.55	74	27.12	Peak	28.9	150	Horizontal	Pass

1 GHz to 25 GHz, ANT V 8-DPSK Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1671.50	52.11	-5.95	74	21.89	Peak	268.7	150	Vertical	Pass
2	2402.06	80.16	-2.72	74	-6.16	Peak	179	150	Vertical	N/A
3	5537.04	51.40	12.03	74	22.61	Peak	214	150	Vertical	Pass
4	9751.25	41.73	19.03	74	32.27	Peak	314	150	Vertical	Pass
5	17367.30	47.02	9.20	74	26.99	Peak	261.7	150	Vertical	Pass
6	22603.99	45.63	12.74	74	28.37	Peak	356.3	150	Vertical	Pass

1 GHz to 25 GHz, ANT H 8-DPSK Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1735.96	47.21	-5.78	74	26.79	Peak	310.5	150	Horizontal	Pass
2	2402.57	79.11	-2.70	74	-5.11	Peak	330.2	150	Horizontal	N/A
3	5540.60	50.57	12.12	74	23.43	Peak	244.6	150	Horizontal	Pass
4	8908.90	43.20	20.21	74	30.80	Peak	252.8	150	Horizontal	Pass
5	12525.37	51.00	9.55	74	23.00	Peak	1.7	150	Horizontal	Pass
6	23552.41	48.47	13.13	74	25.53	Peak	268.6	150	Horizontal	Pass

1 GHz to 25 GHz, ANT V 8-DPSK Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1669.84	52.68	-5.92	74	21.32	Peak	144.8	150	Vertical	Pass
2	2441.07	80.05	-2.72	74	-6.05	Peak	180.5	150	Vertical	N/A
3	5538.30	51.29	12.08	74	22.72	Peak	284.1	150	Vertical	Pass
4	10267.89	48.58	17.43	74	25.42	Peak	31.9	150	Vertical	Pass
5	14892.26	44.83	9.62	74	29.18	Peak	349.4	150	Vertical	Pass
6	19608.99	45.52	9.90	74	28.48	Peak	6.6	150	Vertical	Pass

1 GHz to 25 GHz, ANT H 8-DPSK Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1733.33	47.89	-5.80	74	26.11	Peak	326.5	150	Horizontal	Pass
2	2441.68	79.97	-2.70	74	-5.97	Peak	104.6	150	Horizontal	N/A
3	5546.48	50.31	12.12	74	23.69	Peak	272.7	150	Horizontal	Pass
4	10189.27	49.27	18.25	74	24.73	Peak	0.9	150	Horizontal	Pass
5	13259.57	50.86	11.76	74	23.14	Peak	7.7	150	Horizontal	Pass
6	24261.23	47.53	10.33	74	26.47	Peak	222.1	150	Horizontal	Pass

1 GHz to 25 GHz, ANT V 8-DPSK High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1668.62	52.63	-5.92	74	21.37	Peak	108.2	150	Vertical	Pass
2	2480.47	80.32	-2.70	74	-6.32	Peak	299.1	150	Vertical	N/A
3	5535.71	50.52	12.03	74	23.49	Peak	238.5	150	Vertical	Pass
4	8628.12	43.62	13.81	74	30.38	Peak	351	150	Vertical	Pass
5	13269.97	52.52	8.71	74	21.48	Peak	172.2	150	Vertical	Pass
6	19449.25	48.83	12.12	74	25.17	Peak	327.4	150	Vertical	Pass

1 GHz to 25 GHz, ANT H 8-DPSK High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1735.52	46.04	-5.75	74	27.96	Peak	123.9	150	Horizontal	Pass
2	2480.41	79.92	-2.72	74	-5.92	Peak	5.3	150	Horizontal	N/A
3	5546.54	50.24	12.09	74	23.76	Peak	199.5	150	Horizontal	Pass
4	9481.70	45.00	14.55	74	29.01	Peak	221.8	150	Horizontal	Pass
5	14195.51	45.97	9.13	74	28.03	Peak	24.4	150	Horizontal	Pass
6	18906.41	48.86	12.90	74	25.14	Peak	344	150	Horizontal	Pass

Hopping Mode:

1 GHz to 25 GHz, ANT V GFSK(Hopping) Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1669.59	52.18	-5.93	74	21.82	Peak	80.7	150	Vertical	Pass
2	2441.00	80.65	-2.72	74	-6.65	Peak	300.3	150	Vertical	N/A
3	5534.48	50.10	12.03	74	23.91	Peak	77.6	150	Vertical	Pass
4	10054.49	42.48	18.85	74	31.52	Peak	139.4	150	Vertical	Pass
5	12413.06	44.46	9.55	74	29.54	Peak	262.9	150	Vertical	Pass
6	19019.97	44.28	11.02	74	29.72	Peak	339.5	150	Vertical	Pass

1 GHz to 25 GHz, ANT H GFSK(Hopping) Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1735.10	46.02	-5.80	74	27.98	Peak	185.4	150	Horizontal	Pass
2	2441.55	78.97	-2.70	74	-4.97	Peak	319.6	150	Horizontal	N/A
3	5542.43	50.51	12.13	74	23.49	Peak	259.8	150	Horizontal	Pass
4	10548.67	48.52	16.96	74	25.49	Peak	243	150	Horizontal	Pass
5	15755.41	44.89	9.46	74	29.11	Peak	252.3	150	Horizontal	Pass
6	22594.01	45.12	11.62	74	28.88	Peak	324	150	Horizontal	Pass

1 GHz to 25 GHz, ANT V 8-DPSK(Hopping) Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1666.75	52.26	-5.92	74	21.74	Peak	96.9	150	Vertical	Pass
2	2441.01	80.72	-2.73	74	-6.72	Peak	342.6	150	Vertical	N/A
3	5535.26	51.05	12.03	74	22.96	Peak	165.2	150	Vertical	Pass
4	8661.81	42.96	13.82	74	31.04	Peak	72.9	150	Vertical	Pass
5	17024.13	46.46	9.49	74	27.54	Peak	277.2	150	Vertical	Pass
6	19599.00	43.09	13.53	74	30.91	Peak	313.9	150	Vertical	Pass

1 GHz to 25 GHz, ANT H 8-DPSK(Hopping) Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1734.87	47.91	-5.77	74	26.09	Peak	250.3	150	Horizontal	Pass
2	2440.56	79.35	-2.72	74	-5.35	Peak	212	150	Horizontal	N/A
3	5541.83	50.68	12.13	74	23.32	Peak	214.9	150	Horizontal	Pass
4	6078.62	48.82	19.72	74	25.18	Peak	113.8	150	Horizontal	Pass
5	13665.14	48.27	11.01	74	25.73	Peak	291.9	150	Horizontal	Pass
6	20707.16	47.35	8.49	74	26.65	Peak	129.2	150	Horizontal	Pass

A.9 Band Edge (Restricted-band band-edge)

Note: Band Edge (Restricted-band band-edge) result reference from original test report: BL-SZ1660028-602 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 29. 2016) A.9 Band Edge (Restricted-band band-edge).

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ1740297-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ1740297-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ1740297-AI.PDF”.

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