

FCC PART 15.247 TEST REPORT

For

POSH Mobile Limited

1011A, 10/F., Harbour Centre Tower 1, No. 1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

FCC ID: 2AG8KX551

Report Type: Product Type: Icon Pro HD Original Report Lion Xiao Test Engineer: Lion Xiao Report Number: RDG160118001-00A **Report Date:** 2016-01-25 Sola Hugg Sula Huang Reviewed By: RF Leader Bay Area Compliance Laboratories Corp. (Dongguan) **Test Laboratory:** No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
Objective	
RELATED SUBMITTAL(S)/GRANT(S)	
TEST METHODOLOGY	
TEST FACILITY	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	
EUT Exercise Software	
SUPPORT EQUIPMENT LIST AND DETAILS	
EXTERNAL CABLE	
BLOCK DIAGRAM OF TEST SETUP	
SUMMARY OF TEST RESULTS	8
FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE	9
APPLICABLE STANDARD	9
FCC §15.203 - ANTENNA REQUIREMENT	10
APPLICABLE STANDARD	10
ANTENNA CONNECTOR CONSTRUCTION	10
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	11
APPLICABLE STANDARD	11
MEASUREMENT UNCERTAINTY	
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST PROCEDURE	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
TEST EQUIPMENT LIST AND DETAILS	
TEST RESULTS SUMMARY TEST DATA	
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS	
APPLICABLE STANDARD	
MEASUREMENT UNCERTAINTY	
EUT Setup.	
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	17
TEST PROCEDURE	17
TEST EQUIPMENT LIST AND DETAILS.	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
Test Results Summary	
TEST DATA	
FCC §15.247(a) (1) - CHANNEL SEPARATION TEST	
Applicable Standard Test Equipment List and Details	
TEST EQUIPMENT LIST AND DETAILS	
TEST PROCEDURE TEST DATA	
FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING	
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APPLICABLE STANDARD	33
TEST PROCEDURE	33
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	
FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST	39
APPLICABLE STANDARD	39
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)	43
APPLICABLE STANDARD	43
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	59
APPLICABLE STANDARD	59
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS.	
Test Data	59
FCC §15.247(d) - BAND EDGES TESTING	65
APPLICABLE STANDARD	65
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	
DECLARATION LETTER	69

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *POSH Mobile Limited*'s product, model number: *X551 (FCC ID: 2AG8KX551)* (the "EUT") in this report was a *Icon Pro HD*, which was measured approximately: 15.32 cm (L) x 7.9 cm (W) x 8.2cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V charging from adapter.

Report No.: RDG160118001-00A

Adapter information: PART NO.: C02-X511 MODEL: TL6D-0501000

INPUT: 100-240V ~ 50/60Hz 0.15A OUTPUT: DC 5.0V, 1000mA

Note: The model X551 have different samples, they are the same electromagnetic emissions and electromagnetic compatibility characteristics, the difference between them is model name and appearance, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 160118001 (Assigned by BACL, Dongguan). The EUT was received on 2016-01-19.

Objective

This report is prepared on behalf of *POSH Mobile Limited* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules

The tests were performed in order to determine the Bluetooth BDR and EDR mode of EUT compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: 2AG8KX551.

FCC Part 22H, 24E PCE submissions with FCC ID: 2AG8KX551.

FCC Part 15C DTS submissions with FCC ID: 2AG8KX551.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

FCC Part 15.247 Page 4 of 69

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Report No.: RDG160118001-00A

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FCC Part 15.247 Page 5 of 69

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

EUT Exercise Software

Test Software Version		Enginnering Mode		
Test Frequency		2402MHz 2441MHz 2480MHz		
GFSK GFSK		N/A	N/A	N/A
Power Level	π/4-DQPSK	N/A	N/A	N/A
Setting	8DPSK	N/A	N/A	N/A

Report No.: RDG160118001-00A

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

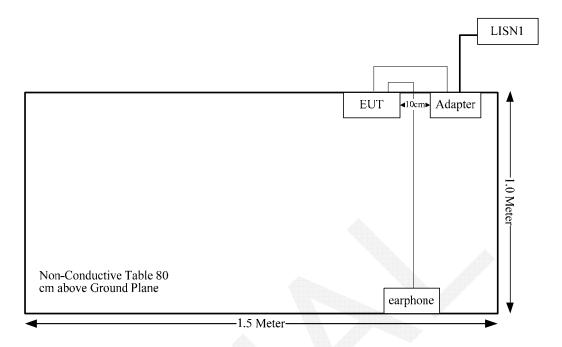
Manufacturer	Manufacturer Description		Serial Number	
/	1	/	/	

External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.0	USB Port of Adater	EUT
Earphone Cable	No	No	1.2	Audio Port of EUT	Earphone

FCC Part 15.247 Page 6 of 69

Block Diagram of Test Setup



FCC Part 15.247 Page 7 of 69

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(1)	20 dB Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	Peak Output Power Measurement	Compliance
§15.247(d)	Band Edges	Compliance

FCC Part 15.247 Page 8 of 69

FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Report No.: RDG160118001-00A

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The max tune-up conducted power is 5.3 dBm (3.39 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] = 3.39/5*($\sqrt{2}$.480) = 1.1< 3.0

So the stand-alone SAR evaluation is not necessary.

FCC Part 15.247 Page 9 of 69

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Report No.: RDG160118001-00A

Antenna Connector Construction

The EUT has one integral antenna arrangement for Wifi/BT, which was permanently attached and the antenna gain is -2.2 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC Part 15.247 Page 10 of 69

Applicable Standard

FCC§15.207

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

Report No.: RDG160118001-00A

If $U_{\rm lab}$ is less than or equal to $U_{\rm cispr}$ of Table 1, then:

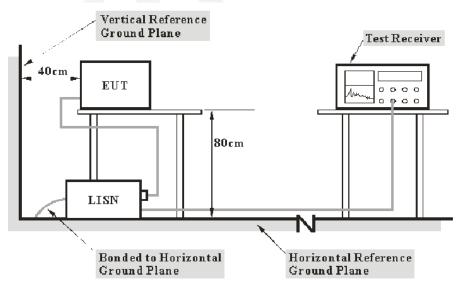
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz).

Table 1 – Values of
$$U_{\text{cispr}}$$

Measurement	$U_{ m cispr}$
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

FCC Part 15.247 Page 11 of 69

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W	
150 kHz – 30 MHz	9 kHz	

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

 V_C : corrected voltage amplitude V_R : reading voltage amplitude A_c : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

FCC Part 15.247 Page 12 of 69

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2015-10-20	2016-10-20
R&S	L.I.S.N	ESH2-Z5	892107/021	2015-07-16	2016-07-15
R&S	Two-line V-network	ENV 216	3560.6550.12	2015-11-26	2016-11-25
N/A	Coaxial Cable	1.8m	N/A	2015-05-06	2016-05-06
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

Report No.: RDG160118001-00A

Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.207</u>, with the worst margin reading of:

6.8 dB at 0.558572 MHz in the Line conducted mode

Test Data

Environmental Conditions

Temperature:	22.7 °C
Relative Humidity:	44 %
ATM Pressure:	101.6 kPa

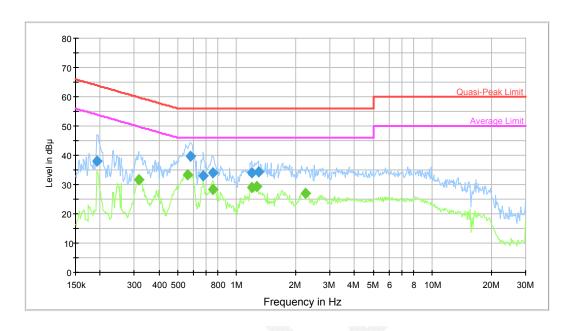
The testing was performed by Lion Xiao on 2016-01-19.

FCC Part 15.247 Page 13 of 69

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: Transmitting

AC120 V, 60 Hz, Line:



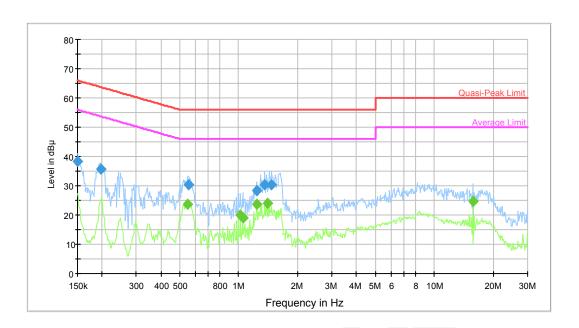
Report No.: RDG160118001-00A

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.192030	38.0	9.000	L1	9.7	25.9	63.9	Compliance
0.581275	39.8	9.000	L1	9.8	16.2	56.0	Compliance
0.676289	33.0	9.000	L1	9.8	23.0	56.0	Compliance
0.756101	34.0	9.000	L1	9.8	22.0	56.0	Compliance
1.190776	34.1	9.000	L1	9.8	21.9	56.0	Compliance
1.289541	34.3	9.000	L1	9.8	21.7	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.317235	31.7	9.000	L1	9.7	18.1	49.8	Compliance
0.558572	33.2	9.000	L1	9.8	6.8	46.0	Compliance
0.756101	28.3	9.000	L1	9.8	17.7	46.0	Compliance
1.190776	28.8	9.000	L1	9.8	17.2	46.0	Compliance
1.269154	29.3	9.000	L1	9.8	16.7	46.0	Compliance
2.234662	27.1	9.000	L1	9.8	18.9	46.0	Compliance

FCC Part 15.247 Page 14 of 69

AC120 V, 60 Hz, Neutral:



Report No.: RDG160118001-00A

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	38.3	9.000	N	9.7	27.7	66.0	Compliance
0.196675	35.5	9.000	N	9.7	28.2	63.7	Compliance
0.554139	30.5	9.000	N	9.7	25.5	56.0	Compliance
1.239175	28.2	9.000	N	9.8	27.8	56.0	Compliance
1.363512	30.2	9.000	N	9.8	25.8	56.0	Compliance
1.476605	30.4	9.000	N	9.8	25.6	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.549741	23.6	9.000	N	9.7	22.4	46.0	Compliance
1.023481	20.1	9.000	N	9.8	25.9	46.0	Compliance
1.048242	19.1	9.000	N	9.8	26.9	46.0	Compliance
1.239175	23.5	9.000	N	9.8	22.5	46.0	Compliance
1.407671	23.9	9.000	N	9.8	22.1	46.0	Compliance
15.741362	24.7	9.000	N	10.2	25.3	50.0	Compliance

FCC Part 15.247 Page 15 of 69

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

Report No.: RDG160118001-00A

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

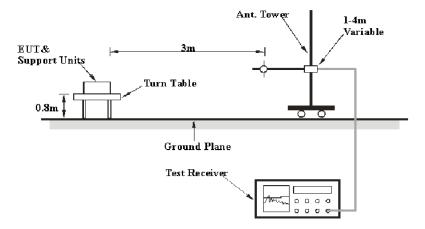
30M~200MHz: 5.0 dB 200M~1GHz: 6.2 dB 1G~6GHz: 4.45 dB 6G~18GHz: 5.23 dB

Table 1 – Values of $U_{\rm cispr}$

Measurement					
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB				
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB				
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB				

EUT Setup

Below 1GHz:



FCC Part 15.247 Page 16 of 69

Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector	
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP	
Above 1 CHz	1MHz	3 MHz	/	PK	
Above 1 GHz	1MHz	10 Hz	/	AV	

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, peak and average detection modes for frequencies above 1 GHz.

FCC Part 15.247 Page 17 of 69

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW- 18405536-JO	15964001001	2015-09-06	2016-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

Report No.: RDG160118001-00A

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, and section 15.205, 15.209 and 15.247, with the worst margin reading of:

10.54 dB at 2483.5 MHz in the Horizontal polarization

Test Data

Environmental Conditions

Temperature:	23.1°C
Relative Humidity:	49 %
ATM Pressure:	101.3 kPa

^{*} The testing was performed by Lion Xiao on 2016-01-21.

Test Mode: Transmitting

FCC Part 15.247 Page 18 of 69

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Frequency	Re	eceiver	Rx A	ntenna	Cable	Amplifier	Corrected	FCC 1	5.247
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
				Low Chann					
2402	69.62	PK	Н	24.82	3.66	0.00	98.10	N/A	N/A
2402	59.41	AV	Н	24.82	3.66	0.00	87.89	N/A	N/A
2402	67.85	PK	V	24.82	3.66	0.00	96.33	N/A	N/A
2402	57.9	AV	V	24.82	3.66	0.00	86.38	N/A	N/A
2390	29.21	PK	Н	24.80	3.63	0.00	57.64	74.00	16.36
2390	14.59	AV	Н	24.80	3.63	0.00	43.02	54.00	10.98
4804	33.26	PK	Н	29.71	5.06	27.41	40.62	74.00	33.38
4804	19.62	AV	Н	29.71	5.06	27.41	26.98	54.00	27.02
7206	32.57	PK	H	33.93	6.61	25.91	47.20	74.00	26.80
7206	19.19	AV	Н	33.93	6.61	25.91	33.82	54.00	20.18
9608	30.24	PK	H	36.36	8.53	27.55	47.58	74.00	26.42
9608	17.01	AV	H	36.36	8.53	27.55	34.35	54.00	19.65
3895	38.99	PK	H	27.99	4.36	27.29	44.05	74.00	29.95
3895	26.36	AV	H	27.99	4.36	27.29	31.42	54.00	22.58
241.9	36.5	QP	Н	12.23	1.86	21.49	29.10	46.00	16.90
2441	70.01	DIZ		Iiddle Chan			00.00	NT/A	NI/A
2441 2441	70.01 60.62	PK AV	H H	24.89 24.89	3.76	0.00	98.66 89.27	N/A N/A	N/A N/A
2441	68.95	PK	V	24.89	3.76 3.76	0.00	97.60	N/A N/A	N/A N/A
2441	58.16	AV	V	24.89	3.76	0.00	86.81	N/A N/A	N/A N/A
4882	33.22	PK	H	29.86	5.19	27.42	40.85	74.00	33.15
4882	19.55	AV	Н	29.86	5.19	27.42	27.18	54.00	26.82
7323	32.54	PK	H	34.12	6.75	25.88	47.53	74.00	26.47
7323	19.21	AV	H	34.12	6.75	25.88	34.20	54.00	19.80
9764	30.18	PK	Н	36.46	8.62	27.20	48.06	74.00	25.94
9764	17	AV	Н	36.46	8.62	27.20	34.88	54.00	19.12
3895	38.97	PK	Н	27.99	4.36	27.29	44.03	74.00	29.97
3895	26.36	AV	Н	27.99	4.36	27.29	31.42	54.00	22.58
4228	35.29	PK	Н	28.61	5.06	27.04	41.92	74.00	32.08
4228	22.74	AV	Н	28.61	5.06	27.04	29.37	54.00	24.63
241.9	36.8	OP	Н	12.23	1.86	21.49	29.40	46.00	16.60
				High Chann					
2480	70.54	PK	Н	24.96	3.68	0.00	99.18	N/A	N/A
2480	60.67	AV	Н	24.96	3.68	0.00	89.31	N/A	N/A
2480	68.79	PK	V	24.96	3.68	0.00	97.43	N/A	N/A
2480	58.88	AV	V	24.96	3.68	0.00	87.52	N/A	N/A
2483.5	28.59	PK	Н	24.97	3.67	0.00	57.23	74.00	16.77
2483.5	14.82	AV	Н	24.97	3.67	0.00	43.46	54.00	10.54
4960	32.87	PK	Н	30.02	5.34	27.43	40.80	74.00	33.20
4960	19.41	AV	Н	30.02	5.34	27.43	27.34	54.00	26.66
7440	32.36	PK	Н	34.30	6.89	25.97	47.58	74.00	26.42
7440	19.02	AV	Н	34.30	6.89	25.97	34.24	54.00	19.76
9920	30.01	PK	Н	36.55	8.71	26.66	48.61	74.00	25.39
9920	16.87	AV	Н	36.55	8.71	26.66	35.47	54.00	18.53
3895	38.78	PK	Н	27.99	4.36	27.29	43.84	74.00	30.16
3895	26.21	AV	Н	27.99	4.36	27.29	31.27	54.00	22.73
241.9	36.1	QP	Н	12.23	1.86	21.49	28.70	46.00	17.30

FCC Part 15.247 Page 19 of 69

EDR Mode ($\pi/4$ -DQPSK):

Frequency	Re	eceiver	Rx A	ntenna	Cable	Amplifier	Corrected	FCC 1	5.247
(MHz)	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			J	Low Chann	el: 2402 N	MHz	•		
2402	67.28	PK	Н	24.82	3.66	0.00	95.76	N/A	N/A
2402	57.91	AV	Н	24.82	3.66	0.00	86.39	N/A	N/A
2402	65.79	PK	V	24.82	3.66	0.00	94.27	N/A	N/A
2402	55.78	AV	V	24.82	3.66	0.00	84.26	N/A	N/A
2390	28.99	PK	Н	24.80	3.63	0.00	57.42	74.00	16.58
2390	14.07	AV	Н	24.80	3.63	0.00	42.50	54.00	11.50
4804	32.83	PK	Н	29.71	5.06	27.41	40.19	74.00	33.81
4804	19.34	AV	Н	29.71	5.06	27.41	26.70	54.00	27.30
7206	32.09	PK	Н	33.93	6.61	25.91	46.72	74.00	27.28
7206	18.85	AV	Н	33.93	6.61	25.91	33.48	54.00	20.52
9608	29.96	PK	Н	36.36	8.53	27.55	47.30	74.00	26.70
9608	16.81	AV	Н	36.36	8.53	27.55	34.15	54.00	19.85
4048	36.7	PK	Н	28.29	4.60	27.17	42.42	74.00	31.58
4048	24.07	AV	Н	28.29	4.60	27.17	29.79	54.00	24.21
241.9	36.2	QP	Н	12.23	1.86	21.49	28.80	46.00	17.20
				iddle Chan				1	27/1
2441	68.59	PK	Н	24.89	3.76	0.00	97.24	N/A	N/A
2441	58.02	AV	Н	24.89	3.76	0.00	86.67	N/A	N/A
2441	66.07	PK	V	24.89	3.76	0.00	94.72	N/A	N/A
2441	56.99	AV	V	24.89	3.76	0.00	85.64	N/A	N/A
4882	32.97	PK	H	29.86	5.19	27.42	40.60	74.00	33.40
4882	19.33	AV	Н	29.86	5.19	27.42	26.96	54.00	27.04
7323	32.14	PK	H	34.12	6.75	25.88	47.13	74.00	26.87
7323	18.84	AV	Н	34.12	6.75	25.88	33.83	54.00	20.17
9764	30.12	PK	Н	36.46	8.62	27.20	48.00	74.00	26.00
9764	16.85	AV PK	Н	36.46 28.29	8.62	27.20 27.17	34.73 42.35	54.00	19.27
4048 4048	36.63		H H	28.29	4.60	27.17		74.00	31.65
	24.11 35.37	AV PK	Н	28.29	4.60		29.83 40.27	54.00 74.00	24.17
3723 3723	22.94	AV	Н	27.65	4.59 4.59	27.34 27.34	27.84	54.00	33.73 26.16
241.9	36.6	QP	Н	12.23	1.86	21.49	29.20	46.00	16.80
241.9	30.0	Qr		High Chann			29.20	40.00	10.60
2480	68.02	PK	Н	24.96	3.68	0.00	96.66	N/A	N/A
2480	58.98	AV	Н	24.96	3.68	0.00	87.62	N/A	N/A
2480	66.49	PK	V	24.96	3.68	0.00	95.13	N/A	N/A
2480	56.46	AV	V	24.96	3.68	0.00	85.10	N/A	N/A
2483.5	28.1	PK	H	24.97	3.67	0.00	56.74	74.00	17.26
2483.5	14.37	AV	Н	24.97	3.67	0.00	43.01	54.00	10.99
4960	32.89	PK	Н	30.02	5.34	27.43	40.82	74.00	33.18
4960	19.24	AV	Н	30.02	5.34	27.43	27.17	54.00	26.83
7440	32.2	PK	Н	34.30	6.89	25.97	47.42	74.00	26.58
7440	18.79	AV	Н	34.30	6.89	25.97	34.01	54.00	19.99
9920	29.94	PK	Н	36.55	8.71	26.66	48.54	74.00	25.46
9920	16.96	AV	Н	36.55	8.71	26.66	35.56	54.00	18.44
4048	36.78	PK	Н	28.29	4.60	27.17	42.50	74.00	31.50
4048	24.08	AV	Н	28.29	4.60	27.17	29.80	54.00	24.20
241.9	36	QP	Н	12.23	1.86	21.49	28.60	46.00	17.40

FCC Part 15.247 Page 20 of 69

Report No.: RDG160118001-00A

EDR Mode (8-DPSK):

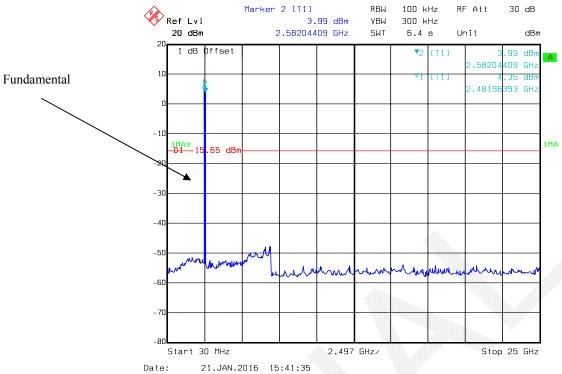
Frequency	? (8-DPSK): 	eceiver	Rx A	ntenna	Cable	Amplifier	Corrected	FCC 1	5.247
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	Limit	Margin
(WIIIZ)	(dBµV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
]	Low Chann					
2402	66.62	PK	Н	24.82	3.66	0.00	95.10	N/A	N/A
2402	54.85	AV	Н	24.82	3.66	0.00	83.33	N/A	N/A
2402	64.03	PK	V	24.82	3.66	0.00	92.51	N/A	N/A
2402	52.25	AV	V	24.82	3.66	0.00	80.73	N/A	N/A
2390	28.61	PK	Н	24.80	3.63	0.00	57.04	74.00	16.96
2390	14.52	AV	Н	24.80	3.63	0.00	42.95	54.00	11.05
4804	33.09	PK	Н	29.71	5.06	27.41	40.45	74.00	33.55
4804	19.58	AV	Н	29.71	5.06	27.41	26.94	54.00	27.06
7206	32.69	PK	Н	33.93	6.61	25.91	47.32	74.00	26.68
7206	19.27	AV	Н	33.93	6.61	25.91	33.90	54.00	20.10
9608	30.07	PK	Н	36.36	8.53	27.55	47.41	74.00	26.59
9608	17.02	AV	Н	36.36	8.53	27.55	34.36	54.00	19.64
4048	36.97	PK	Н	28.29	4.60	27.17	42.69	74.00	31.31
4048	24.58	AV	Н	28.29	4.60	27.17	30.30	54.00	23.70
241.9	36.6	QP	Н	12.23	1.86	21.49	29.20	46.00	16.80
	1	T ====================================		iddle Chan			<u> </u>		
2441	67.13	PK	Н	24.89	3.76	0.00	95.78	N/A	N/A
2441	55.1	AV	Н	24.89	3.76	0.00	83.75	N/A	N/A
2441	65.22	PK	V	24.89	3.76	0.00	93.87	N/A	N/A
2441	53.36	AV	V	24.89	3.76	0.00	82.01	N/A	N/A
4882	33.15	PK	Н	29.86	5.19	27.42	40.78	74.00	33.22
4882	19.68	AV	Н	29.86	5.19	27.42	27.31	54.00	26.69
7323	32.51	PK	Н	34.12	6.75	25.88	47.50	74.00	26.50
7323	19.25	AV	Н	34.12	6.75	25.88	34.24	54.00	19.76
9764	30.04	PK	Н	36.46	8.62	27.20	47.92	74.00	26.08
9764	17.03	AV	Н	36.46	8.62	27.20	34.91	54.00	19.09
4048	37.09	PK	Н	28.29	4.60	27.17	42.81	74.00	31.19
4048	24.47	AV	Н	28.29	4.60	27.17	30.19	54.00	23.81
3723	35.81	PK	Н	27.65	4.59	27.34	40.71	74.00	33.29
3723	23.29	AV	Н	27.65	4.59	27.34	28.19	54.00	25.81
241.9	36.3	QP	Н	12.23	1.86	21.49	28.90	46.00	17.10
2490	67.92	DV		High Chann			06.47	NT/A	NT/A
2480	67.83	PK	Н	24.96	3.68	0.00	96.47	N/A	N/A
2480 2480	55.92 65.24	AV PK	H V	24.96	3.68	0.00	84.56	N/A N/A	N/A N/A
2480				24.96	3.68	0.00	93.88		
2480	53.33 28.27	AV PK	V	24.96 24.97	3.68	0.00	81.97 56.91	N/A 74.00	N/A 17.09
2483.5			Н						
4960	14.7 32.84	AV PK	H H	24.97 30.02	3.67	0.00	43.34	54.00	10.66 33.23
4960	19.39	AV	Н	30.02	5.34 5.34	27.43 27.43	40.77 27.32	74.00 54.00	26.68
7440	32.4	PK	Н	34.30	6.89	25.97	47.62	74.00	26.38
7440	19.04	AV	Н	34.30	6.89	25.97	34.26	54.00	19.74
9920							48.71		25.29
9920	30.11 17.06	PK AV	Н	36.55 36.55	8.71	26.66 26.66	35.66	74.00	18.34
4048	36.84	PK	H H	28.29	8.71 4.60	27.17	42.56	54.00 74.00	31.44
4048	24.32	AV	Н	28.29	4.60	27.17	30.04	54.00	23.96
			Н						
241.9	36.9	QP	П	12.23	1.86	21.49	29.50	46.00	16.50

FCC Part 15.247 Page 21 of 69

FCC Part 15.247 Page 22 of 69

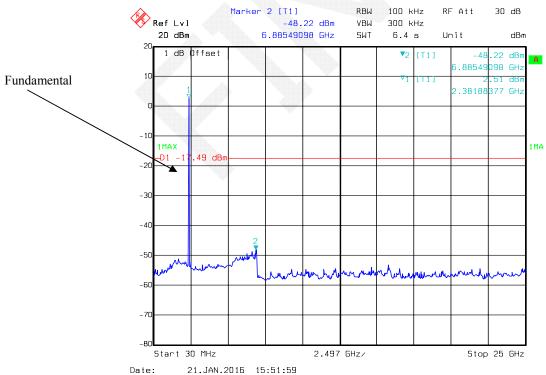






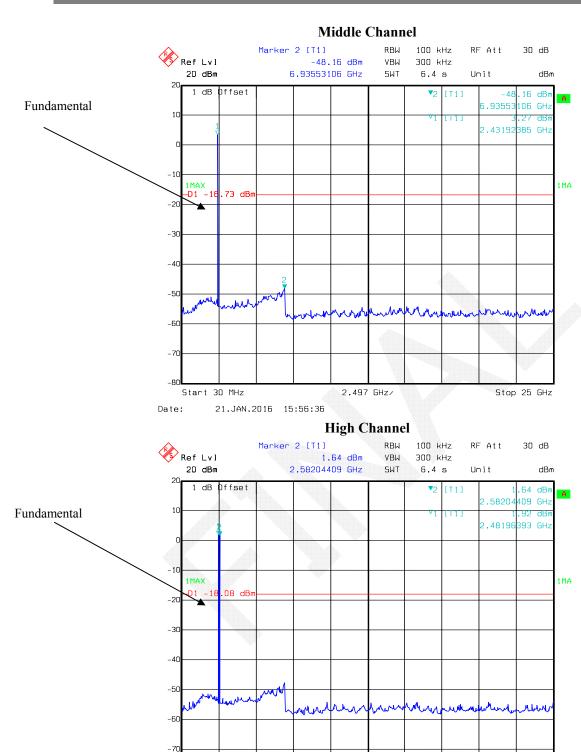
EDR Mode ($\pi/4$ -DQPSK):

Low Channel



FCC Part 15.247 Page 23 of 69





Start 30 MHz

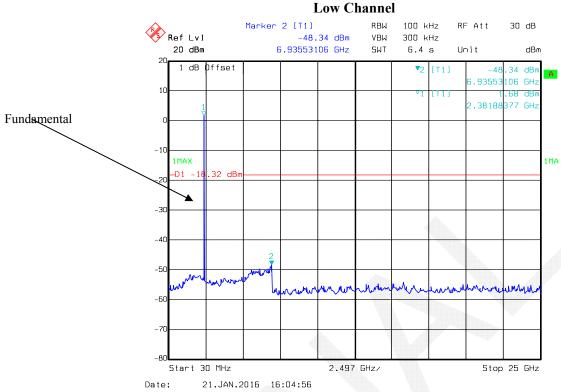
21.JAN.2016 15:59:33

FCC Part 15.247 Page 24 of 69

2.497 GHz/

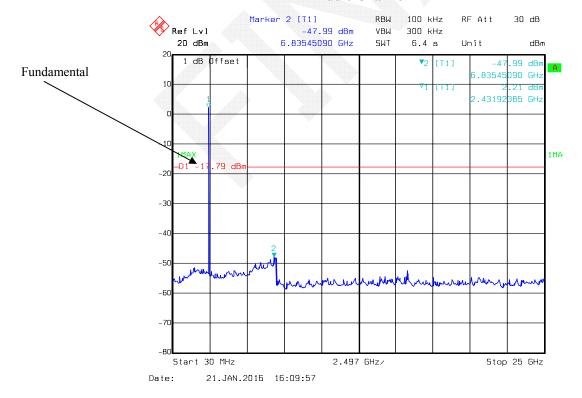
Stop 25 GHz

EDR Mode (8-DPSK):

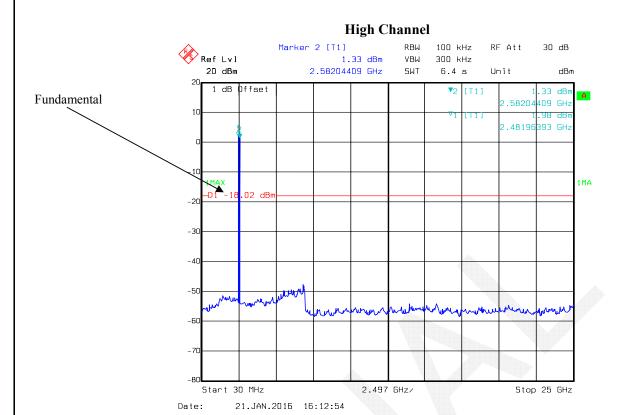


Middle Channel

Report No.: RDG160118001-00A



FCC Part 15.247 Page 25 of 69



FCC Part 15.247 Page 26 of 69

FCC §15.247(a) (1) - CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hoping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.50 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

Report No.: RDG160118001-00A

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

- 1. Set the EUT in transmitting mode, spectrum Bandwidth was set at 30 kHz, maxhold the channel.
- 2. Set the adjacent channel of the EUT maxhold another trace.
- 3. Measure the channel separation.

Test Data

Environmental Conditions

	No. 100
Temperature:	23.1 °C
Relative Humidity:	49 %
ATM Pressure:	101.3 kPa

^{*} The testing was performed by Lion Xiao on 2016-01-21.

Test Result: Compliance.

Please refer to following tables and plots

FCC Part 15.247 Page 27 of 69

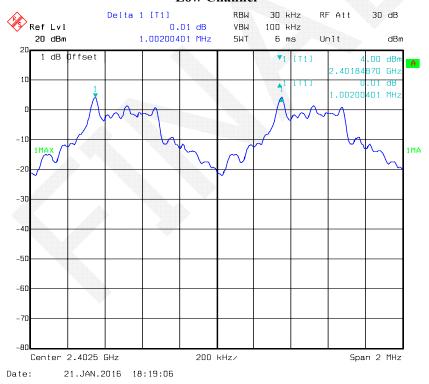
Test Mode: Transmitting

Mode	Channel	Frequency	Channel Separation	Limit
		MHz	MHz	MHz
BDR (GFSK)	Low	2402	1.002	0.553
	Middle	2441	1.002	0.553
	High	2480	1.002	0.553
EDR (π/4-DQPSK)	Low	2402	1.002	0.753
	Middle	2441	1.002	0.760
	High	2480	1.002	0.753
EDR (8DPSK)	Low	2402	1.002	0.780
	Middle	2441	1.002	0.773
	High	2480	1.002	0.780

Note: Limit= (2/3) x 20dB bandwidth

BDR Mode (GFSK):

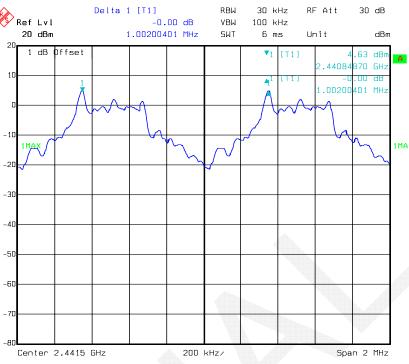
Low Channel



FCC Part 15.247 Page 28 of 69

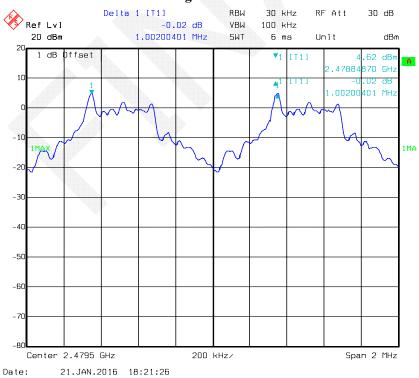
Middle Channel

Report No.: RDG160118001-00A



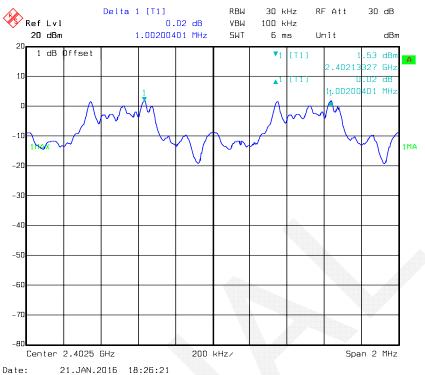
Date: 21.JAN.2016 18:20:28

High Channel

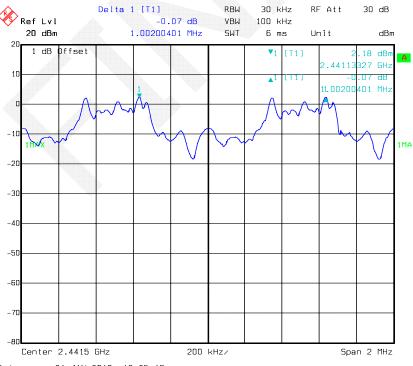


FCC Part 15.247 Page 29 of 69





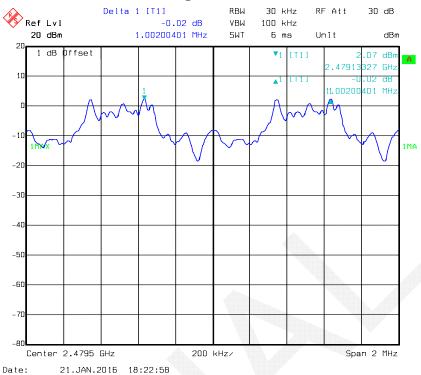
Middle Channel



21.JAN.2016 18:25:16 Date:

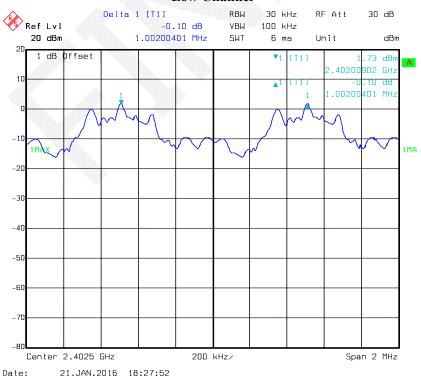
FCC Part 15.247 Page 30 of 69

High Channel



EDR Mode (8-DPSK):

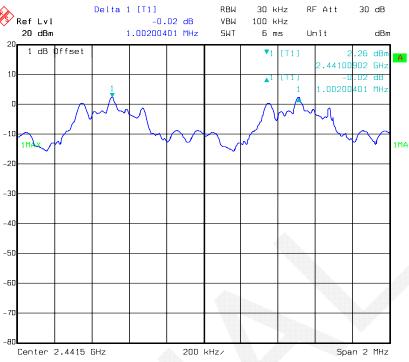
Low Channel



FCC Part 15.247 Page 31 of 69

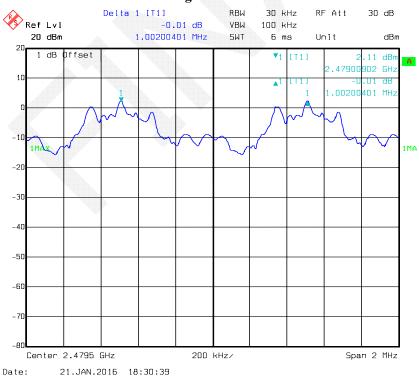
Middle Channel

Report No.: RDG160118001-00A



Date: 21.JAN.2016 18:28:54

High Channel



FCC Part 15.247 Page 32 of 69

FCC $\S15.247(a)$ (1) – 20 dB BANDWIDTH TESTING

Applicable Standard

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.

Report No.: RDG160118001-00A

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial	Calibration	Calibration
		Operators.	Number	Date	Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23.1 °C			
Relative Humidity:	49 %			
ATM Pressure:	101.3 kPa			

^{*} The testing was performed by Lion Xiao on 2016-01-21.

Test Result: Compliance.

Please refer to following tables and plots

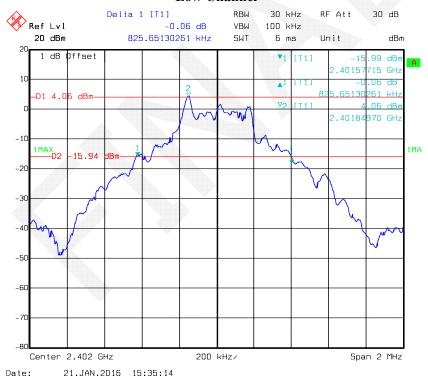
FCC Part 15.247 Page 33 of 69

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.83
	Middle	2441	0.83
	High	2480	0.83
	Low	2402	1.13
EDR Mode (π/4-DQPSK)	Middle	2441	1.14
(M4-DQI SK)	High	2480	1.13
EDR Mode (8-DPSK)	Low	2402	1.17
	Middle	2441	1.16
	High	2480	1.17

BDR Mode (GFSK):

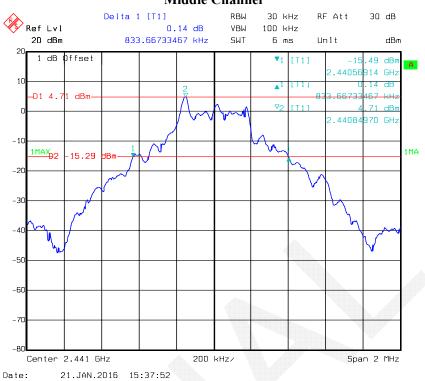
Low Channel



FCC Part 15.247 Page 34 of 69

Middle Channel

Report No.: RDG160118001-00A



High Channel



FCC Part 15.247 Page 35 of 69

Low Channel

Report No.: RDG160118001-00A



Middle Channel



Date: 21.JAN.2016 15:55:14

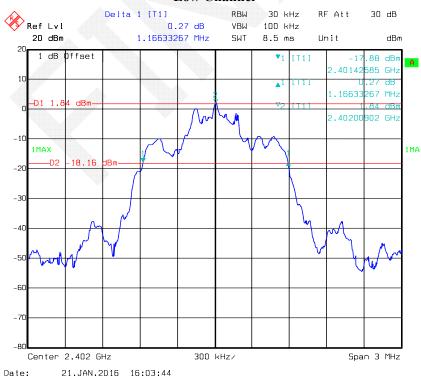
FCC Part 15.247 Page 36 of 69





EDR Mode (8-DPSK):

Low Channel



FCC Part 15.247 Page 37 of 69

Middle Channel

Report No.: RDG160118001-00A



High Channel



FCC Part 15.247 Page 38 of 69

FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

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.

Report No.: RDG160118001-00A

Test Procedure

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the Max-Hold function record the Quantity of the channel.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23.1 °C
Relative Humidity:	49 %
ATM Pressure:	101.3 kPa

^{*} The testing was performed by Lion Xiao on 2016-01-21.

Test Result: Compliance.

Please refer to following tables and plots

FCC Part 15.247 Page 39 of 69

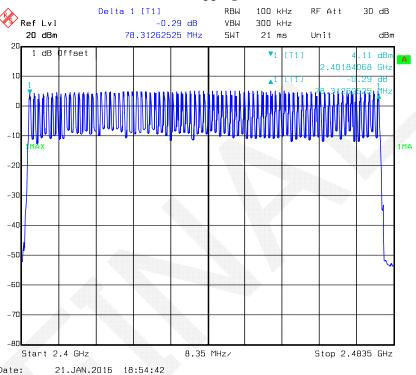
Test Mode: Transmitting

BDR Mode (GFSK):

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	15

Report No.: RDG160118001-00A

Number of Hopping Channels



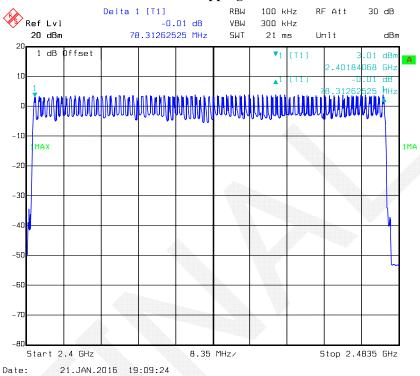
FCC Part 15.247 Page 40 of 69

EDR Mode (\pi/4-DQPSK):

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	15

Report No.: RDG160118001-00A

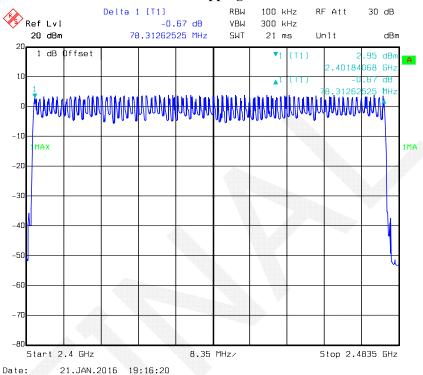
Number of Hopping Channels



FCC Part 15.247 Page 41 of 69

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	15

Number of Hopping Channels



FCC Part 15.247 Page 42 of 69

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz 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.

Report No.: RDG160118001-00A

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 * channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Dwell Time= time slot length * hope rate/ number of hopping channels * 31.6s Hop rate=1600/s

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

All and a second a					
Temperature:	23.1 °C				
Relative Humidity:	49 %				
ATM Pressure:	101.3 kPa				

^{*} The testing was performed by Lion Xiao on 2016-01-21.

Test Result: Compliance.

Please refer to following tables and plots

FCC Part 15.247 Page 43 of 69

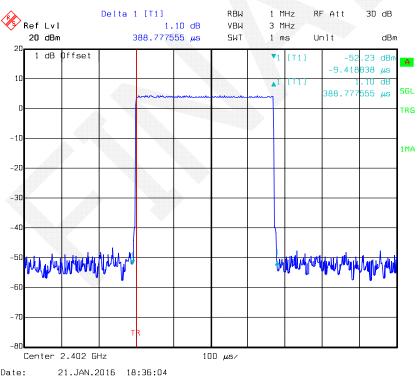
Test Mode: Transmitting

BDR Mode (GFSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result	
	Low	0.389	0.124	0.4	Compliance	
DH1	Middle	0.389	0.124	0.4	Compliance	
DIII	High	0.389	0.124	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s					
	Low	1.651	0.264	0.4	Compliance	
DH3	Middle	1.651	0.264	0.4	Compliance	
<i>D</i> 113	High	1.651	0.264	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s				6 s	
	Low	2.910	0.310	0.4	Compliance	
DH5	Middle	2.910	0.310	0.4	Compliance	
DIIS	High	2.910	0.310	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) \times (1600/6/79) \times 31.6 s					

Report No.: RDG160118001-00A

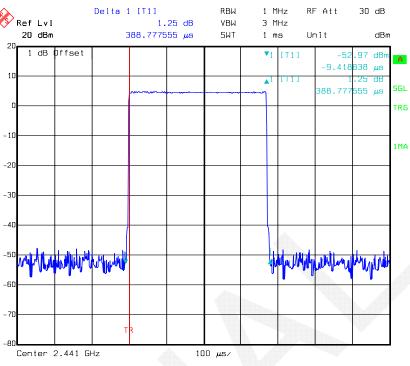
DH1: Low Channel



FCC Part 15.247 Page 44 of 69

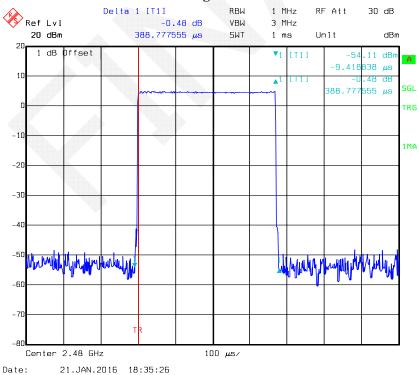
DH1: Middle Channel

Report No.: RDG160118001-00A



Date: 21.JAN.2016 18:35:44

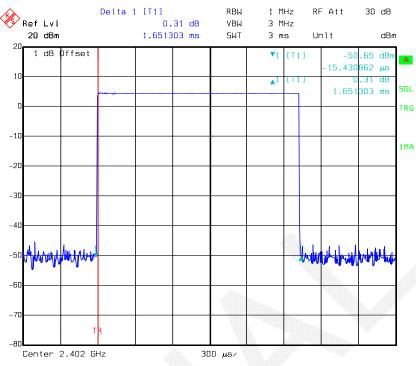
DH1: High Channel



FCC Part 15.247 Page 45 of 69

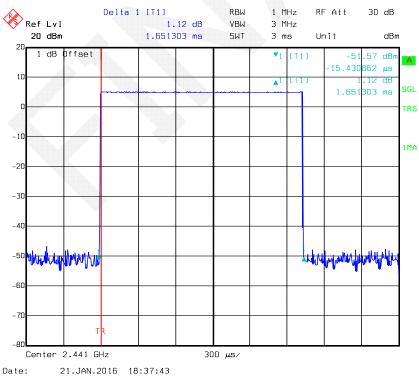
DH3: Low Channel

Report No.: RDG160118001-00A



Date: 21.JAN.2016 18:37:23

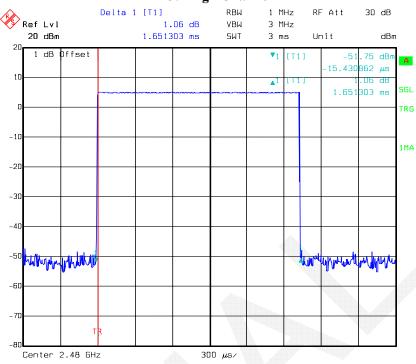
DH3: Middle Channel



FCC Part 15.247 Page 46 of 69

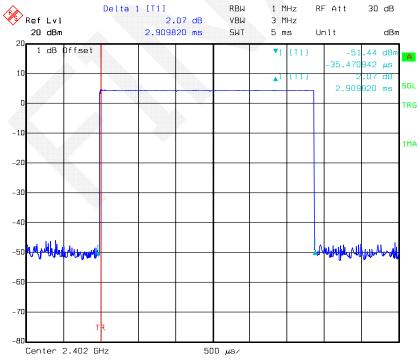
DH3: High Channel

Report No.: RDG160118001-00A



Date: 21.JAN.2016 18:38:00

DH5: Low Channel

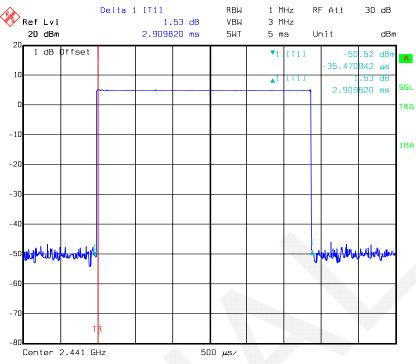


Date: 21.JAN.2016 18:50:24

FCC Part 15.247 Page 47 of 69

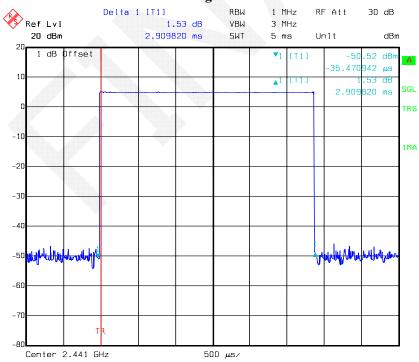
DH5: Middle Channel

Report No.: RDG160118001-00A



Date: 21.JAN.2016 18:50:06

DH5: High Channel

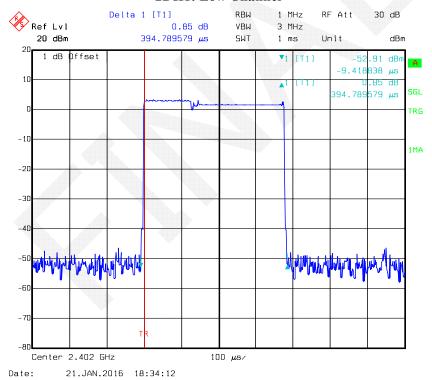


Date: 21.JAN.2016 18:50:06

FCC Part 15.247 Page 48 of 69

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result	
	Low	0.395	0.126	0.4	Compliance	
2DH1	Middle	0.395	0.126	0.4	Compliance	
20111	High	0.395	0.126	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) \times (1600/2/79) \times 31.6 s					
	Low	1.657	0.265	0.4	Compliance	
2DH3	Middle	1.657	0.265	0.4	Compliance	
20113	High	1.657	0.265	0.4	Compliance	
Note: Dwell time=Pulse time (ms) \times (1600/4/79)					.6 s	
	Low	2.910	0.310	0.4	Compliance	
2DH5	Middle	2.910	0.310	0.4	Compliance	
20113	High	2.910	0.310	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s					

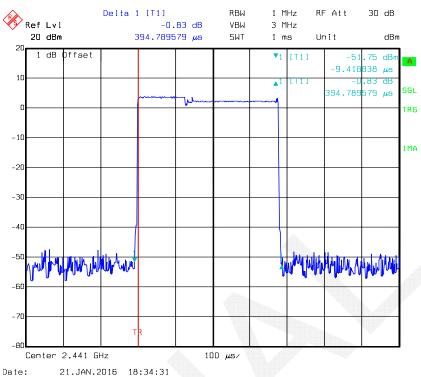
2DH1: Low Channel



FCC Part 15.247 Page 49 of 69

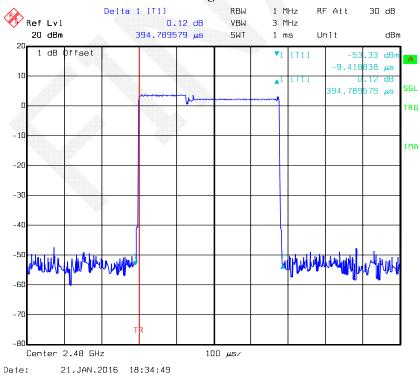
2DH1: Middle Channel

Report No.: RDG160118001-00A

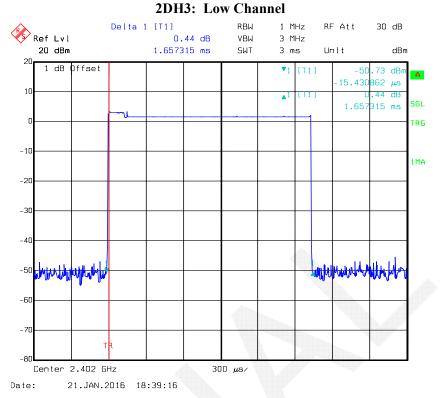


21.JAN.2016 18:34:31

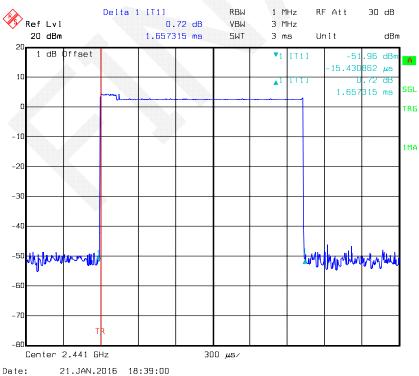
2DH1: High Channel



Page 50 of 69 FCC Part 15.247

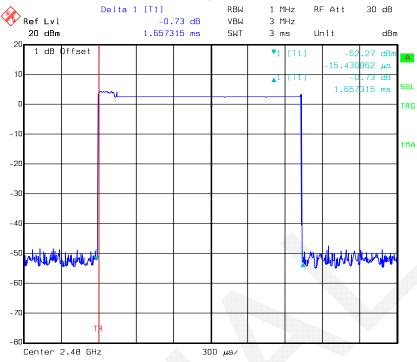


2DH3: Middle Channel



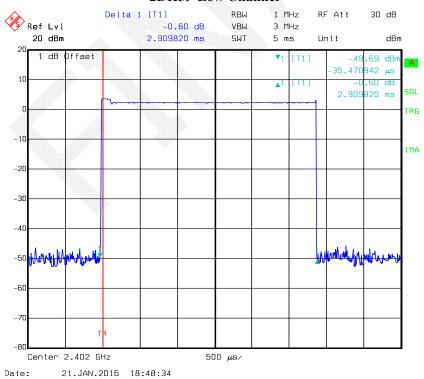
FCC Part 15.247 Page 51 of 69

2DH3: High Channel



Date: 21.JAN.2016 18:38:40

2DH5: Low Channel

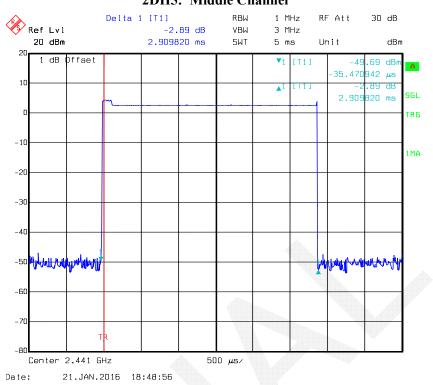


Date. 21.3HN.2010 10.40.34

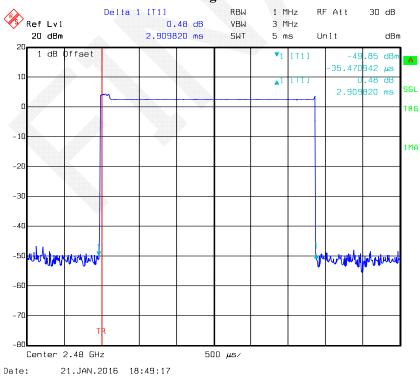
FCC Part 15.247 Page 52 of 69

2DH5: Middle Channel

Report No.: RDG160118001-00A



2DH5: High Channel

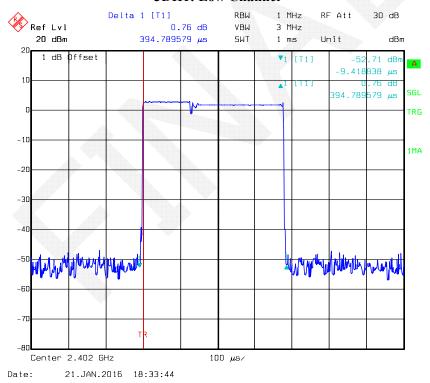


FCC Part 15.247 Page 53 of 69

EDR Mode (8-DPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result	
	Low	0.395	0.126	0.4	Compliance	
3DH1	Middle	0.395	0.126	0.4	Compliance	
SDIII	High	0.395	0.126	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s					
	Low	1.657	0.265	0.4	Compliance	
3DH3	Middle	1.657	0.265	0.4	Compliance	
зипз	High	1.657	0.265	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s				S	
	Low	2.910	0.310	0.4	Compliance	
<i>3DH5</i>	Middle	2.910	0.310	0.4	Compliance	
зинз	High	2.910	0.310	0.4	Compliance	
	Note: Dwell tin	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

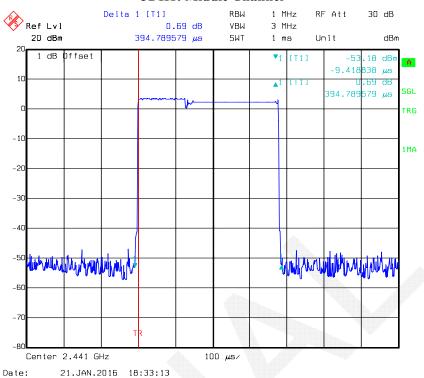
3DH1: Low Channel



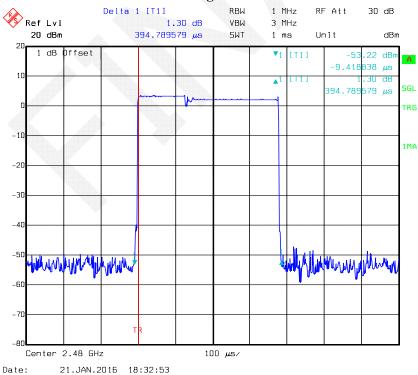
FCC Part 15.247 Page 54 of 69

3DH1: Middle Channel

Report No.: RDG160118001-00A

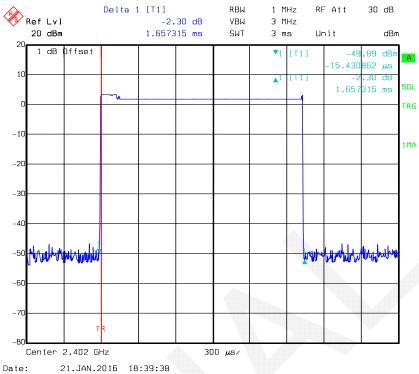


3DH1: High Channel



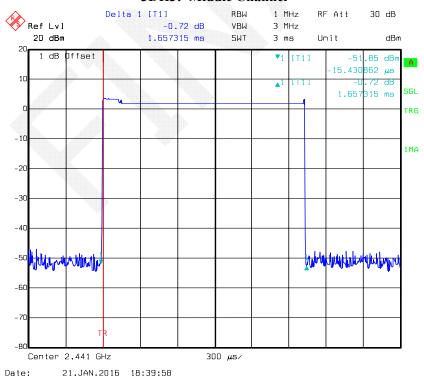
FCC Part 15.247 Page 55 of 69

3DH3: Low Channel

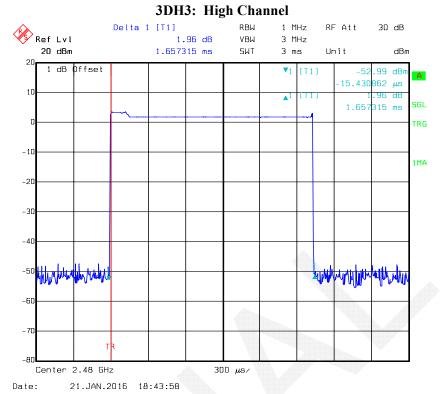


21.JAN.2016 18:39:38

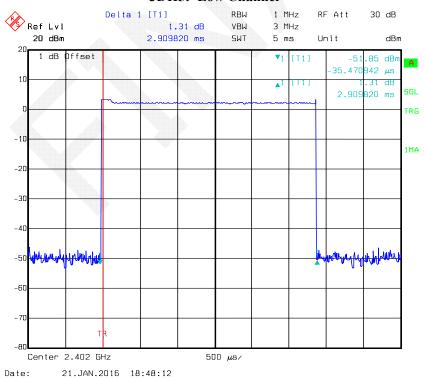
3DH3: Middle Channel



FCC Part 15.247 Page 56 of 69



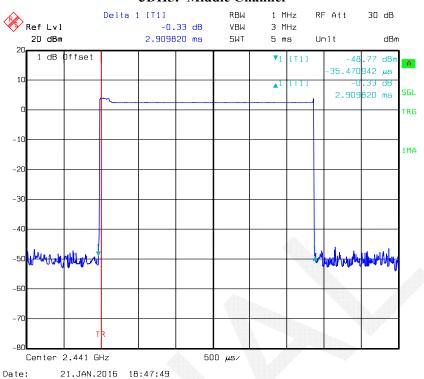
3DH5: Low Channel

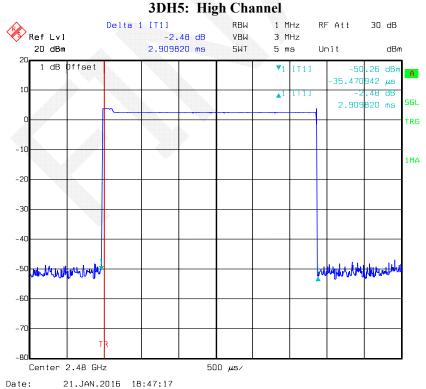


FCC Part 15.247 Page 57 of 69

3DH5: Middle Channel

Report No.: RDG160118001-00A





FCC Part 15.247 Page 58 of 69

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

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

Report No.: RDG160118001-00A

Test Procedure

- 1. Place the EUT on a bench and set in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23.1 °C	
Relative Humidity:	49 %	
ATM Pressure:	101.3 kPa	

^{*} The testing was performed by Lion Xiao on 2016-01-21.

Test Result: Compliance.

FCC Part 15.247 Page 59 of 69

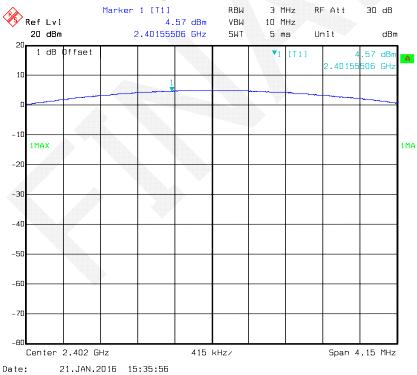
Test Mode: Transmitting

Mode	Frequency (MHz)	Peak Output power (dBm)	Limit (dBm)	
BDR Mode (GFSK)	2402	4.57	30	
	2441	5.18	30	
	2480	5.10	30	
	2402	4.18	30	
EDR Mode (π/4-DQPSK)	2441	4.70	30	
(M4-DQ15K)	2480	4.57	30	
	2402	3.66	30	
EDR Mode (8-DPSK)	2441	4.31	30	
(0 DI 51K)	2480	4.05	30	

Note: The data above was tested in conducted mode.

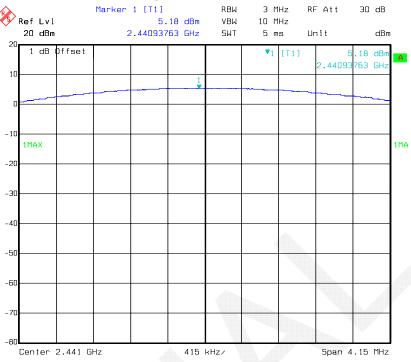
BDR Mode (GFSK):

Output Power, 2402MHz



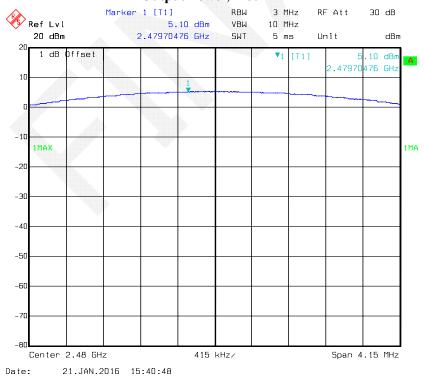
FCC Part 15.247 Page 60 of 69

Output Power, 2441MHz



Date: 21.JAN.2016 15:38:34

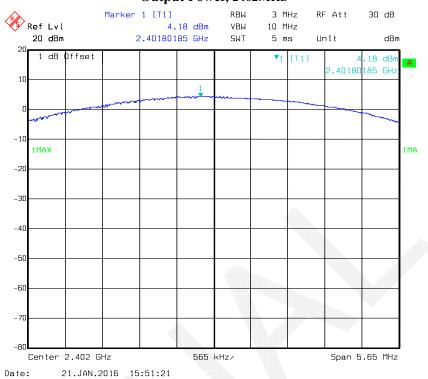
Output Power, 2480MHz



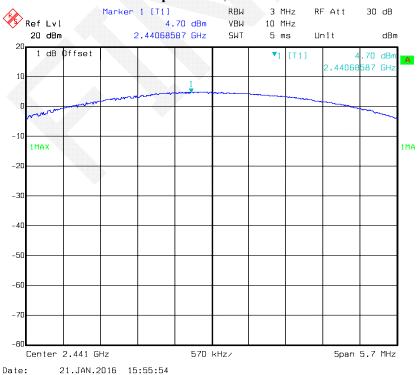
FCC Part 15.247 Page 61 of 69

Output Power, 2402MHz

Report No.: RDG160118001-00A

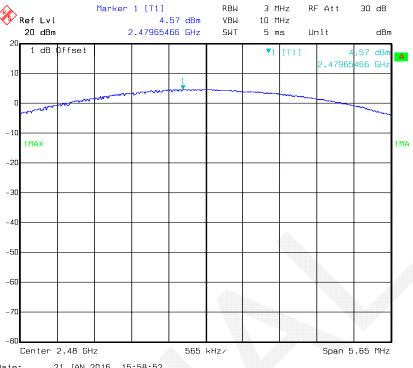


Output Power, 2441MHz



FCC Part 15.247 Page 62 of 69

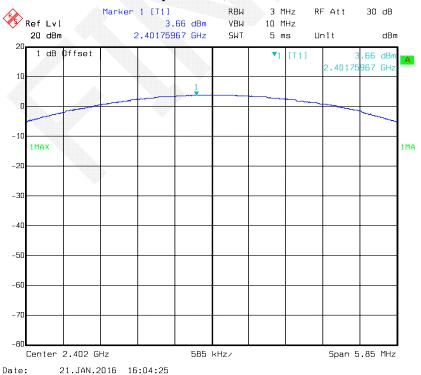
Output Power, 2480MHz



21.JAN.2016 15:58:52

EDR Mode (8-DPSK):

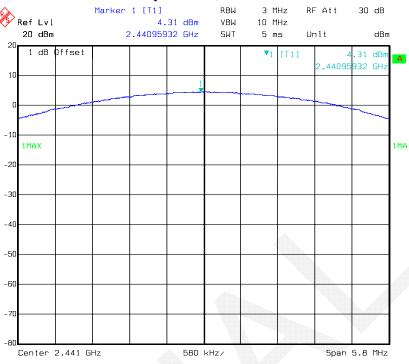
Output Power, 2402MHz



FCC Part 15.247 Page 63 of 69

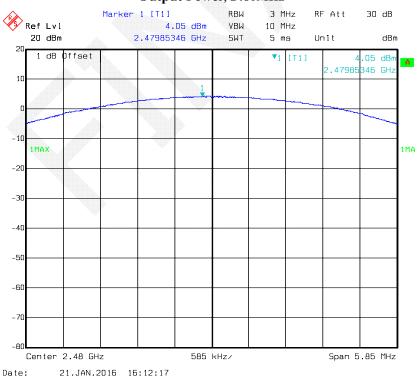
Output Power, 2441MHz

Report No.: RDG160118001-00A



Date: 21.JAN.2016 16:09:20

Output Power, 2480MHz



FCC Part 15.247 Page 64 of 69

FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

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

Report No.: RDG160118001-00A

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

	4007 9000	VINDOM.			
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2015-05-06	2016-05-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23.1 °C	
Relative Humidity:	49 %	
ATM Pressure:	101.3 kPa	

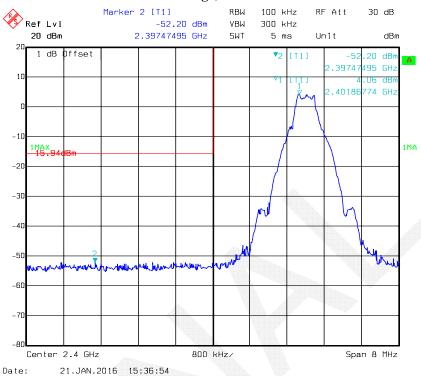
^{*} The testing was performed by Lion Xiao on 2016-01-21.

FCC Part 15.247 Page 65 of 69

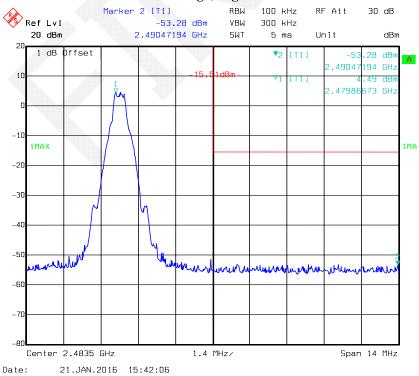
BDR Mode (GFSK):

Band Edge, Left Side

Report No.: RDG160118001-00A



Band Edge, Right Side



FCC Part 15.247 Page 66 of 69

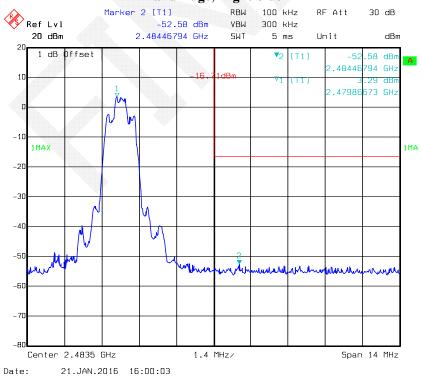
EDR Mode ($\pi/4$ -DQPSK):

Band Edge, Left Side

Report No.: RDG160118001-00A



Band Edge, Right Side



FCC Part 15.247 Page 67 of 69

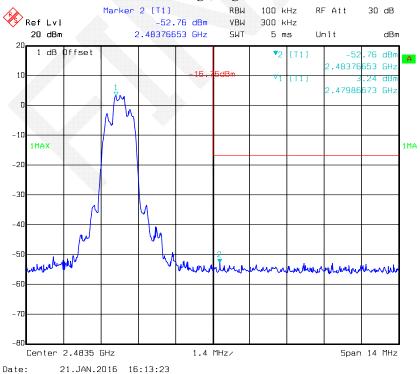
EDR Mode (8-DPSK):

Band Edge, Left Side

Report No.: RDG160118001-00A



Band Edge, Right Side



FCC Part 15.247 Page 68 of 69

DECLARATION LETTER

Declaration of Alteration

Report No.: RDG160118001-00A

To Whom It May Concern,

We, POSH Mobile Limited, hereby declare that there are some differences between our Multiple Models and testing products. Details as below:

(This is for your reference only.)

	Nam	е	Icon Pro HD			
Products Brand Description Manu		d	POSH			
		facturer	Shenzhen Po	sh Mobile Limited		
	Project No.		RDG160118001,RDG160118001 -20			
			Differenc	es Description		
Testing Products Multip		ole Models	Differences Items	Details		
X551		X551A,X	551B,X551C	Model name.Appearence	They are same motherboard, and just have the different model name and appearence.	

Notes: Testing products-the products tested by BACL

Multiple Model- have the same or similar appearance, structure, PCB, Material and function to the testing products, and only are different for little parameters.

Besides the differences in the table above, we declare the products are identical We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing

Best Regards,

Signature: Print Name: Warren Chan

Title: Manager

(con)

ADD: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong
Tel: +852
31889834 Fax: 852 3904 4979 Email: Warren@poslumobile.com.hk

QPDG004R32 Version1.0 (20140717)

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

FCC Part 15.247 Page 69 of 69