

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: 2ABN6C353

Report Type: Original Report	Product Type: Primo Plus
Test Engineer:	Allen Qiao 
Report Number:	RDG150828004-00A
Report Date:	2015-09-18
Reviewed By:	Sula Huang RF Leader 
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) 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). This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
TEST FACILITY	4
SYSTEM TEST CONFIGURATION.....	5
DESCRIPTION OF TEST CONFIGURATION	5
EUT EXERCISE SOFTWARE	5
EQUIPMENT MODIFICATIONS	5
SUPPORT EQUIPMENT LIST AND DETAILS	5
EXTERNAL CABLE.....	5
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE	8
APPLICABLE STANDARD	8
FCC §15.203 - ANTENNA REQUIREMENT.....	9
APPLICABLE STANDARD	9
ANTENNA CONNECTOR CONSTRUCTION	9
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	10
APPLICABLE STANDARD	10
MEASUREMENT UNCERTAINTY.....	10
EUT SETUP.....	10
EMI TEST RECEIVER SETUP.....	11
TEST PROCEDURE	11
CORRECTED AMPLITUDE & MARGIN CALCULATION	11
TEST EQUIPMENT LIST AND DETAILS.....	12
TEST RESULTS SUMMARY	12
TEST DATA	12
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	15
APPLICABLE STANDARD	15
MEASUREMENT UNCERTAINTY.....	15
EUT SETUP	15
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	16
TEST PROCEDURE	16
TEST EQUIPMENT LIST AND DETAILS.....	17
CORRECTED AMPLITUDE & MARGIN CALCULATION	17
TEST RESULTS SUMMARY	17
TEST DATA	17
FCC §15.247(a) (1) - CHANNEL SEPARATION TEST	26
APPLICABLE STANDARD	26
TEST EQUIPMENT LIST AND DETAILS.....	26
TEST PROCEDURE	26
TEST DATA	26
FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING.....	32

APPLICABLE STANDARD	32
TEST PROCEDURE	32
TEST EQUIPMENT LIST AND DETAILS.....	32
TEST DATA	32
FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST	38
APPLICABLE STANDARD	38
TEST PROCEDURE	38
TEST EQUIPMENT LIST AND DETAILS.....	38
TEST DATA	38
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....	42
APPLICABLE STANDARD	42
TEST PROCEDURE	42
TEST EQUIPMENT LIST AND DETAILS.....	42
TEST DATA	42
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	58
APPLICABLE STANDARD	58
TEST PROCEDURE	58
TEST EQUIPMENT LIST AND DETAILS.....	58
TEST DATA	58
FCC §15.247(d) - BAND EDGES TESTING	64
APPLICABLE STANDARD	64
TEST PROCEDURE	64
TEST EQUIPMENT LIST AND DETAILS.....	64
TEST DATA	64
DECLARATION LETTER	68

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Posh Mobile Limited's* product, model number: *C353A (FCC ID: 2ABN6C353)* (the "EUT") in this report was a *Primo Plus*, which was measured approximately: 11.6 cm (L) x 6.2 cm (W) x 1 cm (H), rated input voltage: DC 3.7V rechargeable Li-ion battery or DC5V charging from adapter.

Note: The series product, model C353A, C353B are electrically identical, the difference between them is just the model name, we selected C353A for fully testing, the detail was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 150828004 (Assigned by BACL, Dongguan). The EUT was received on 2015-08-31.

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: 2ABN6C353.
FCC Part 15C DTS submissions with FCC ID: 2ABN6C353.
FCC Part 22H, 24E PCE submissions with FCC ID: 2ABN6C353.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

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

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

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.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

Test Software Version		Enginnering Mode		
Test Frequency		2402MHz	2441MHz	2480MHz
Power Level Setting	GFSK	33	33	33
	$\pi/4$ -DQPSK	33	33	33
	8DPSK	33	33	33

Equipment Modifications

No modification was made to the EUT.

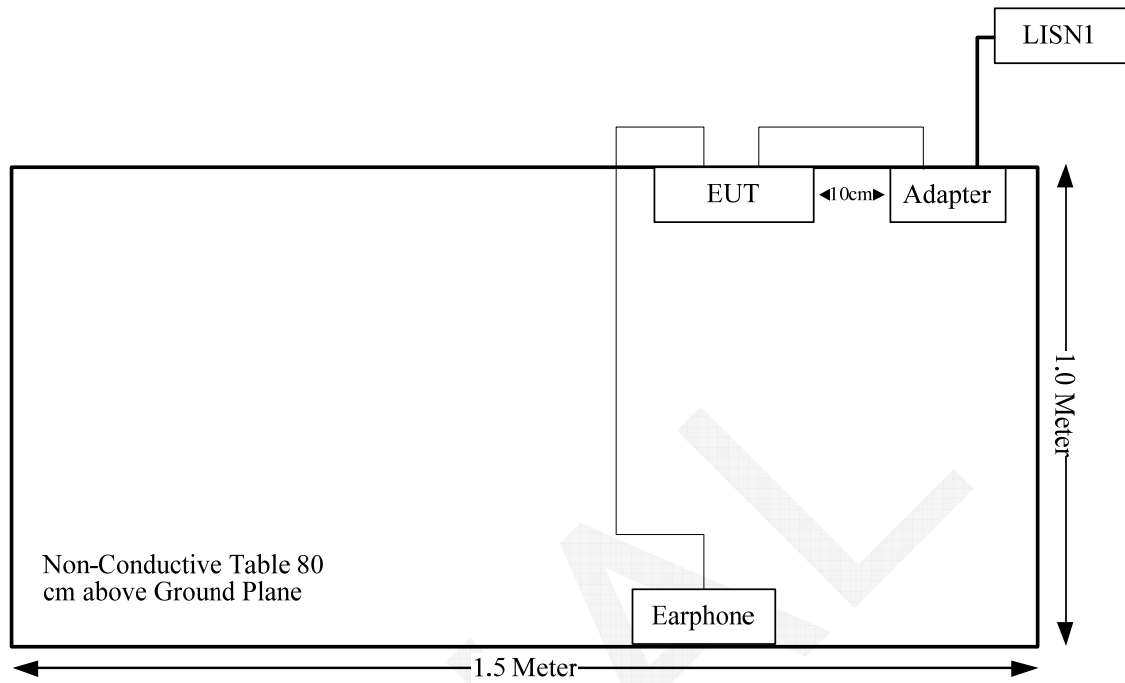
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External Cable

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

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

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 §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.

According to KDB447498 D01 General RF Exposure Guidance v05r02:

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

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

- $f(\text{GHz})$ 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 maximum peak output power = 2.71 dBm (1.87mW) at 2480 MHz

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 1.87/5 \cdot (\sqrt{2.48}) = 0.59 < 3.0$

So the stand-alone SAR evaluation is not necessary.

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.

Antenna Connector Construction

The EUT has one integral antenna arrangement for BT, which was permanently attached and the antenna gain is 1.35 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

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

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

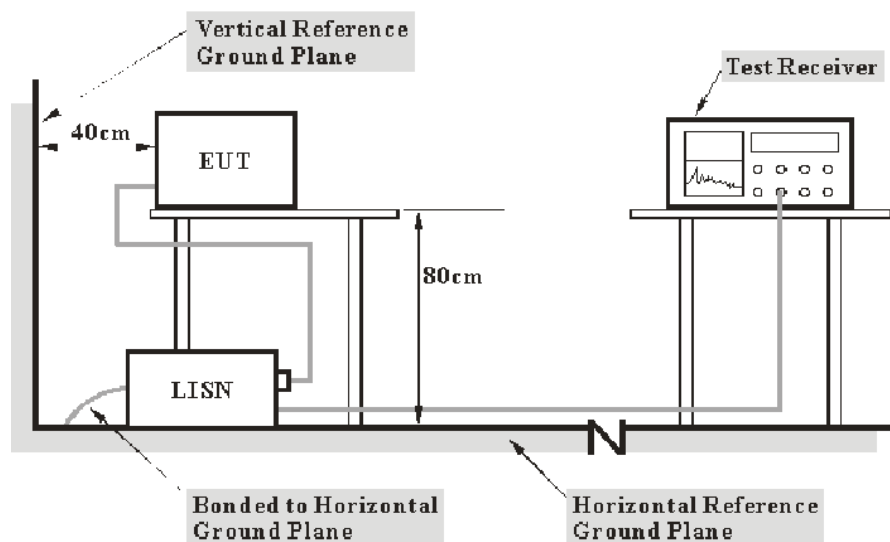
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

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 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cisp}

Measurement	U_{cisp}
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.

The setup of EUT is according with per ANSI C63.4-2014 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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2014-10-20	2015-10-20
R&S	L.I.S.N	ESH2-Z5	892107/021	2015-06-09	2016-06-09
R&S	Two-line V-network	ENV 216	3560.6550.12	2014-12-11	2015-12-11
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

* **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 Results Summary

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

3.1 dB at 0.378019 MHz in the Line conducted mode

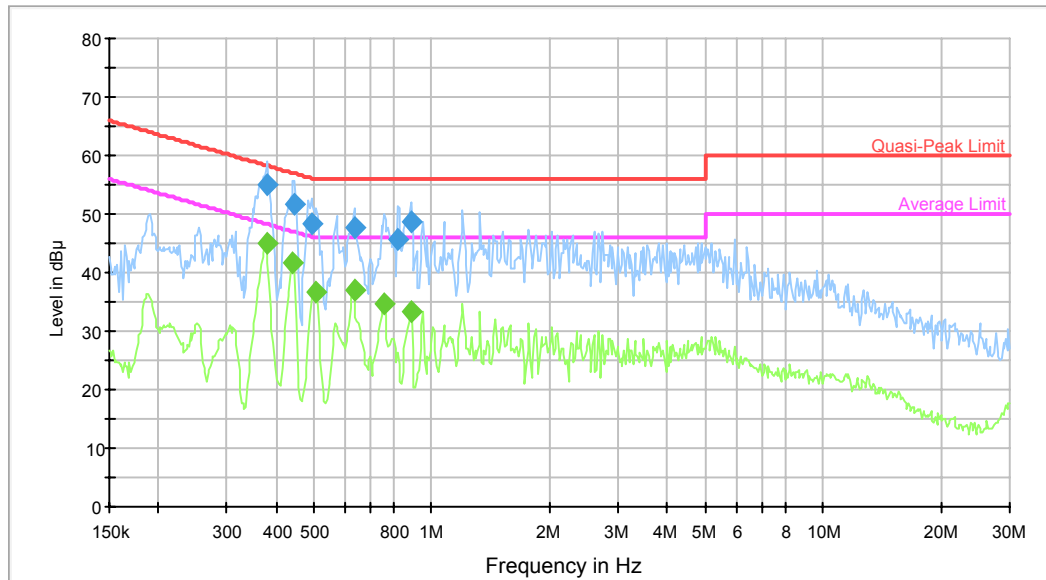
Test Data**Environmental Conditions**

Temperature:	27.1 °C
Relative Humidity:	60 %
ATM Pressure:	100.2 kPa

The testing was performed by Allen Qiao on 2015-09-01.

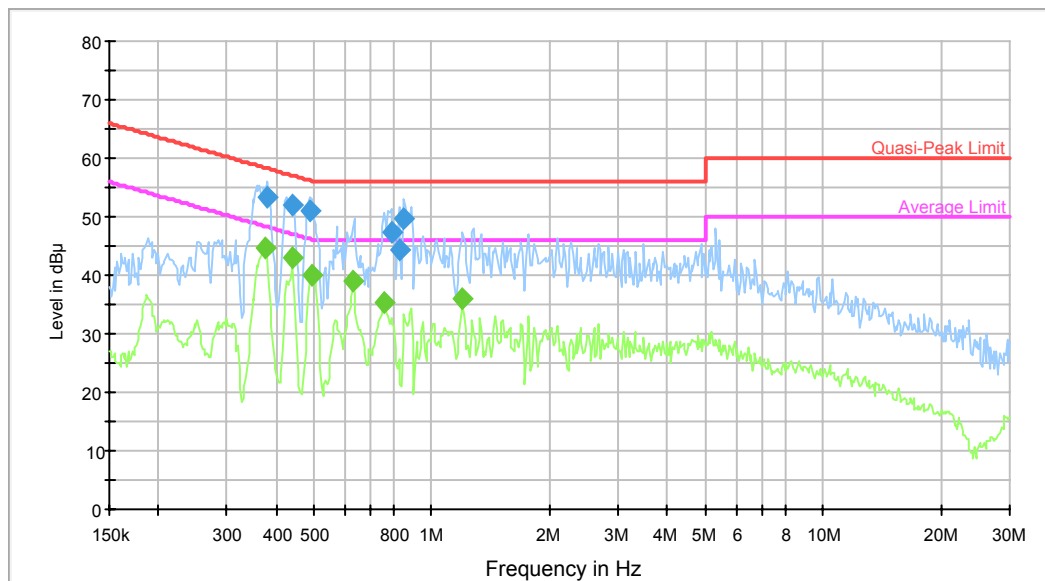
Test Mode: Transmitting

AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.381043	55.0	9.000	L1	9.8	3.3*	58.3	Compliance
0.446873	51.6	9.000	L1	9.8	5.3	56.9	Compliance
0.491712	48.2	9.000	L1	9.8	7.9	56.1	Compliance
0.634524	47.7	9.000	L1	9.8	8.3	56.0	Compliance
0.818813	45.7	9.000	L1	9.8	10.3	56.0	Compliance
0.886728	48.6	9.000	L1	9.8	7.4	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.378019	45.2	9.000	L1	9.8	3.1*	48.3	Compliance
0.443327	41.6	9.000	L1	9.8	5.4	47.0	Compliance
0.503608	36.6	9.000	L1	9.8	9.4	46.0	Compliance
0.634524	37.2	9.000	L1	9.8	8.8	46.0	Compliance
0.756101	34.8	9.000	L1	9.8	11.2	46.0	Compliance
0.886728	33.5	9.000	L1	9.8	12.5	46.0	Compliance

AC120 V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.381043	53.2	9.000	N	9.8	5.0	58.3	Compliance
0.443327	52.0	9.000	N	9.8	5.0	57.0	Compliance
0.487810	50.9	9.000	N	9.8	5.3	56.2	Compliance
0.786832	47.2	9.000	N	9.8	8.8	56.0	Compliance
0.825364	44.5	9.000	N	9.8	11.5	56.0	Compliance
0.852094	49.8	9.000	N	9.8	6.2	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.375019	44.7	9.000	N	9.8	3.7	48.4	Compliance
0.443327	43.0	9.000	N	9.8	4.0	47.0	Compliance
0.491712	40.0	9.000	N	9.8	6.1	46.1	Compliance
0.629488	38.9	9.000	N	9.8	7.1	46.0	Compliance
0.756101	35.2	9.000	N	9.8	10.8	46.0	Compliance
1.200302	35.9	9.000	N	9.8	10.1	46.0	Compliance

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

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:

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 $(U_{lab} - U_{cispr})$, 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

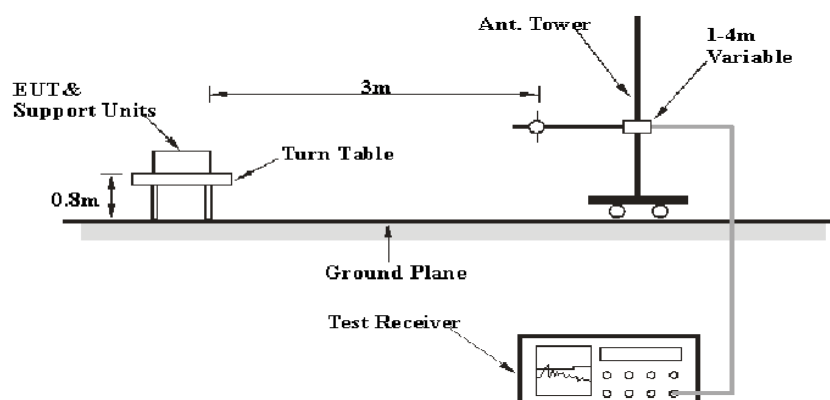
6G~18GHz: 5.23 dB

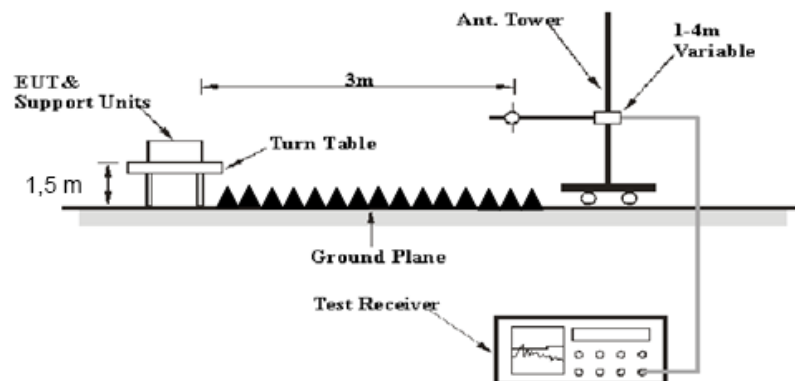
Table 1 – Values of U_{cispr}

Measurement	U_{cispr}
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:



Above 1GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2014. 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 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2014-12-04	2015-12-04
ETS LINDGREN	Horn Antenna	3115	000 527 35	2013-09-06	2016-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Ducommun Technologies	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

* **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).

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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

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:

9.81 dB at 239.52 MHz in the Vertical polarization

Test Data**Environmental Conditions**

Temperature:	27.7 °C
Relative Humidity:	46 %
ATM Pressure:	100.3 kPa

* The testing was performed by Allen Qiao on 2015-09-08.

Test Mode: Transmitting

BDR Mode (GFSK):

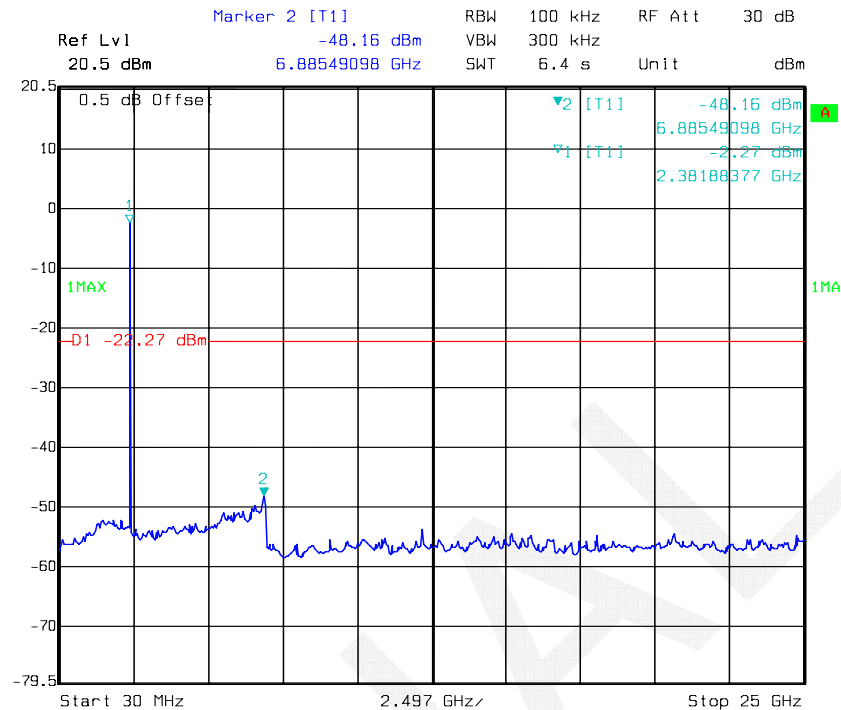
Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC 15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	64.21	PK	H	25.65	3.66	0.00	93.52	N/A	N/A
2402	51.93	AV	H	25.65	3.66	0.00	81.24	N/A	N/A
2402	60.05	PK	V	25.65	3.66	0.00	89.36	N/A	N/A
2402	47.72	AV	V	25.65	3.66	0.00	77.03	N/A	N/A
2390	29.32	PK	H	25.61	3.63	0.00	58.56	74.00	15.44
2390	13.34	AV	H	25.61	3.63	0.00	42.58	54.00	11.42
4804	50.3	PK	H	30.59	5.06	27.41	58.54	74.00	15.46
4804	35.11	AV	H	30.59	5.06	27.41	43.35	54.00	10.65
7206	31.98	PK	H	34.09	6.61	25.91	46.77	74.00	27.23
7206	18.35	AV	H	34.09	6.61	25.91	33.14	54.00	20.86
9608	30.72	PK	H	35.96	8.53	27.55	47.66	74.00	26.34
9608	17.9	AV	H	35.96	8.53	27.55	34.84	54.00	19.16
3970	51.95	PK	H	29.83	4.85	27.23	59.40	74.00	14.60
3970	19.83	AV	H	29.83	4.85	27.23	27.28	54.00	26.72
239.52	43.5	QP	V	12.21	1.86	21.48	36.09	46.00	9.91
Middle Channel: 2441 MHz									
2441	64.98	PK	H	25.75	3.76	0.00	94.49	N/A	N/A
2441	52.55	AV	H	25.75	3.76	0.00	82.06	N/A	N/A
2441	60.73	PK	V	25.75	3.76	0.00	90.24	N/A	N/A
2441	48.01	AV	V	25.75	3.76	0.00	77.52	N/A	N/A
4882	48.27	PK	H	30.79	5.19	27.42	56.83	74.00	17.17
4882	32.61	AV	H	30.79	5.19	27.42	41.17	54.00	12.83
7323	30.67	PK	H	34.38	6.75	25.88	45.92	74.00	28.08
7323	17.78	AV	H	34.38	6.75	25.88	33.03	54.00	20.97
9764	30.39	PK	H	36.33	8.62	27.20	48.14	74.00	25.86
9764	17.42	AV	H	36.33	8.62	27.20	35.17	54.00	18.83
3970	51.51	PK	H	29.83	4.85	27.23	58.96	74.00	15.04
3970	19.32	AV	H	29.83	4.85	27.23	26.77	54.00	27.23
3250	53.83	PK	H	28.00	6.31	27.33	60.81	74.00	13.19
3250	21.58	AV	H	28.00	6.31	27.33	28.56	54.00	25.44
239.52	43.1	QP	V	12.21	1.86	21.48	35.69	46.00	10.31
High Channel: 2480 MHz									
2480	65.2	PK	H	25.85	3.68	0.00	94.73	N/A	N/A
2480	52.87	AV	H	25.85	3.68	0.00	82.40	N/A	N/A
2480	60.67	PK	V	25.85	3.68	0.00	90.20	N/A	N/A
2480	48.1	AV	V	25.85	3.68	0.00	77.63	N/A	N/A
2483.5	36.82	PK	H	25.86	3.67	0.00	66.35	74.00	7.65
2483.5	13.96	AV	H	25.86	3.67	0.00	43.49	54.00	10.51
4960	45.6	PK	H	31.00	5.34	27.43	54.51	74.00	19.49
4960	29.45	AV	H	31.00	5.34	27.43	38.36	54.00	15.64
7440	31.03	PK	H	34.66	6.89	25.97	46.61	74.00	27.39
7440	17.56	AV	H	34.66	6.89	25.97	33.14	54.00	20.86
9920	30.24	PK	H	36.71	8.71	26.66	49.00	74.00	25.00
9920	17.4	AV	H	36.71	8.71	26.66	36.16	54.00	17.84
3970	51.36	PK	H	29.83	4.85	27.23	58.81	74.00	15.19
3970	19.04	AV	H	29.83	4.85	27.23	26.49	54.00	27.51
239.52	43.3	OP	V	12.21	1.86	21.48	35.89	46.00	10.11

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

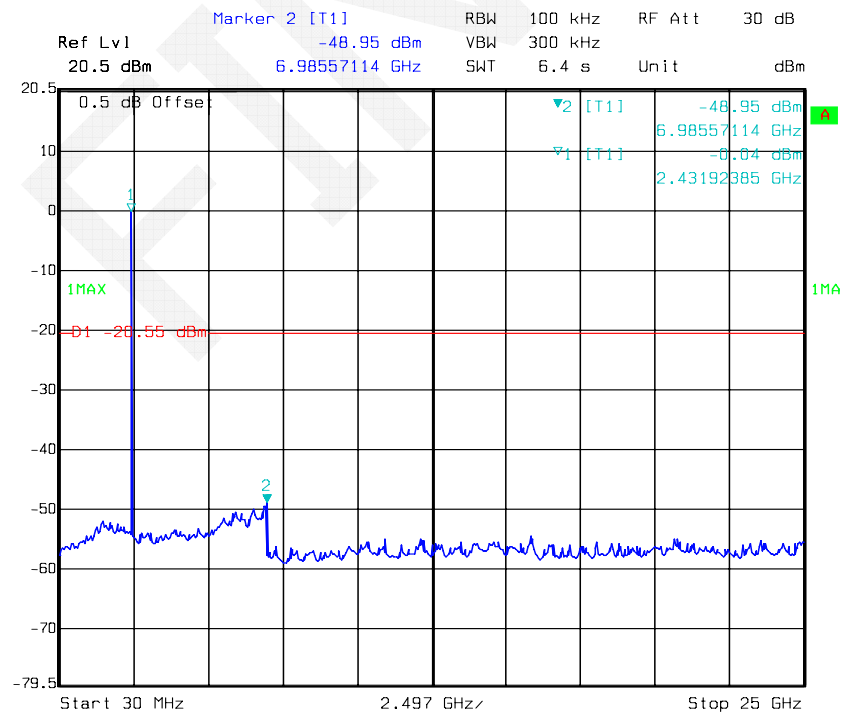
Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC 15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	63.74	PK	H	25.65	3.66	0.00	93.05	N/A	N/A
2402	51.31	AV	H	25.65	3.66	0.00	80.62	N/A	N/A
2402	59.34	PK	V	25.65	3.66	0.00	88.65	N/A	N/A
2402	47.05	AV	V	25.65	3.66	0.00	76.36	N/A	N/A
2390	29.38	PK	H	25.61	3.63	0.00	58.62	74.00	15.38
2390	13.36	AV	H	25.61	3.63	0.00	42.60	54.00	11.40
4804	50.25	PK	H	30.59	5.06	27.41	58.49	74.00	15.51
4804	34.52	AV	H	30.59	5.06	27.41	42.76	54.00	11.24
7206	31.62	PK	H	34.09	6.61	25.91	46.41	74.00	27.59
7206	17.97	AV	H	34.09	6.61	25.91	32.76	54.00	21.24
9608	30.37	PK	H	35.96	8.53	27.55	47.31	74.00	26.69
9608	17.56	AV	H	35.96	8.53	27.55	34.50	54.00	19.50
3970	51.41	PK	H	29.83	4.85	27.23	58.86	74.00	15.14
3970	19.43	AV	H	29.83	4.85	27.23	26.88	54.00	27.12
239.52	43.6	QP	V	12.21	1.86	21.48	36.19	46.00	9.81
Middle Channel: 2441 MHz									
2441	64.39	PK	H	25.75	3.76	0.00	93.90	N/A	N/A
2441	51.81	AV	H	25.75	3.76	0.00	81.32	N/A	N/A
2441	59.88	PK	V	25.75	3.76	0.00	89.39	N/A	N/A
2441	47.32	AV	V	25.75	3.76	0.00	76.83	N/A	N/A
4882	48.31	PK	H	30.79	5.19	27.42	56.87	74.00	17.13
4882	32.34	AV	H	30.79	5.19	27.42	40.90	54.00	13.10
7323	30.71	PK	H	34.38	6.75	25.88	45.96	74.00	28.04
7323	30.61	AV	H	34.38	6.75	25.88	45.86	54.00	8.14
9764	17.48	PK	H	36.33	8.62	27.20	35.23	74.00	38.77
9764	30.11	AV	H	36.33	8.62	27.20	47.86	54.00	6.14
3970	17.13	PK	H	29.83	4.85	27.23	24.58	74.00	49.42
3970	19.32	AV	H	29.83	4.85	27.23	26.77	54.00	27.23
3250	53.6	PK	H	28.00	6.31	27.33	60.58	74.00	13.42
3250	21.21	AV	H	28.00	6.31	27.33	28.19	54.00	25.81
239.52	43.3	QP	V	12.21	1.86	21.48	35.89	46.00	10.11
High Channel: 2480 MHz									
2480	64.55	PK	H	25.85	3.68	0.00	94.08	N/A	N/A
2480	52.07	AV	H	25.85	3.68	0.00	81.60	N/A	N/A
2480	59.98	PK	V	25.85	3.68	0.00	89.51	N/A	N/A
2480	47.52	AV	V	25.85	3.68	0.00	77.05	N/A	N/A
2483.5	37.58	PK	H	25.86	3.67	0.00	67.11	74.00	6.89
2483.5	13.99	AV	H	25.86	3.67	0.00	43.52	54.00	10.48
4960	45.15	PK	H	31.00	5.34	27.43	54.06	74.00	19.94
4960	29.16	AV	H	31.00	5.34	27.43	38.07	54.00	15.93
7440	30.68	PK	H	34.66	6.89	25.97	46.26	74.00	27.74
7440	17.16	AV	H	34.66	6.89	25.97	32.74	54.00	21.26
9920	29.92	PK	H	36.71	8.71	26.66	48.68	74.00	25.32
9920	16.94	AV	H	36.71	8.71	26.66	35.70	54.00	18.30
3970	50.8	PK	H	29.83	4.85	27.23	58.25	74.00	15.75
3970	18.69	AV	H	29.83	4.85	27.23	26.14	54.00	27.86
239.52	43.1	OP	V	12.21	1.86	21.48	35.69	46.00	10.31

EDR Mode (8-DPSK):

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC 15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	63.84	PK	H	25.65	3.66	0.00	93.15	N/A	N/A
2402	51.5	AV	H	25.65	3.66	0.00	80.81	N/A	N/A
2402	59.27	PK	V	25.65	3.66	0.00	88.58	N/A	N/A
2402	46.98	AV	V	25.65	3.66	0.00	76.29	N/A	N/A
2390	29.87	PK	H	25.61	3.63	0.00	59.11	74.00	14.89
2390	13.42	AV	H	25.61	3.63	0.00	42.66	54.00	11.34
4804	50.13	PK	H	30.59	5.06	27.41	58.37	74.00	15.63
4804	34.37	AV	H	30.59	5.06	27.41	42.61	54.00	11.39
7206	31.67	PK	H	34.09	6.61	25.91	46.46	74.00	27.54
7206	18.28	AV	H	34.09	6.61	25.91	33.07	54.00	20.93
9608	30.62	PK	H	35.96	8.53	27.55	47.56	74.00	26.44
9608	17.83	AV	H	35.96	8.53	27.55	34.77	54.00	19.23
3970	51.79	PK	H	29.83	4.85	27.23	59.24	74.00	14.76
3970	19.74	AV	H	29.83	4.85	27.23	27.19	54.00	26.81
239.52	43.4	QP	V	12.21	1.86	21.48	35.99	46.00	10.01
Middle Channel: 2441 MHz									
2441	64.46	PK	H	25.75	3.76	0.00	93.97	N/A	N/A
2441	52.13	AV	H	25.75	3.76	0.00	81.64	N/A	N/A
2441	59.35	PK	V	25.75	3.76	0.00	88.86	N/A	N/A
2441	47.08	AV	V	25.75	3.76	0.00	76.59	N/A	N/A
4882	48.21	PK	H	30.79	5.19	27.42	56.77	74.00	17.23
4882	32.45	AV	H	30.79	5.19	27.42	41.01	54.00	12.99
7323	30.64	PK	H	34.38	6.75	25.88	45.89	74.00	28.11
7323	17.39	AV	H	34.38	6.75	25.88	32.64	54.00	21.36
9764	30.01	PK	H	36.33	8.62	27.20	47.76	74.00	26.24
9764	17.14	AV	H	36.33	8.62	27.20	34.89	54.00	19.11
3970	51.11	PK	H	29.83	4.85	27.23	58.56	74.00	15.44
3970	18.96	AV	H	29.83	4.85	27.23	26.41	54.00	27.59
3250	53.46	PK	H	28.00	6.31	27.33	60.44	74.00	13.56
3250	21.34	AV	H	28.00	6.31	27.33	28.32	54.00	25.68
239.52	43.3	QP	V	12.21	1.86	21.48	35.89	46.00	10.11
High Channel: 2480 MHz									
2480	64.81	PK	H	25.85	3.68	0.00	94.34	N/A	N/A
2480	52.42	AV	H	25.85	3.68	0.00	81.95	N/A	N/A
2480	59.03	PK	V	25.85	3.68	0.00	88.56	N/A	N/A
2480	46.62	AV	V	25.85	3.68	0.00	76.15	N/A	N/A
2483.5	37.41	PK	H	25.86	3.67	0.00	66.94	74.00	7.06
2483.5	13.99	AV	H	25.86	3.67	0.00	43.52	54.00	10.48
4960	45.26	PK	H	31.00	5.34	27.43	54.17	74.00	19.83
4960	29.38	AV	H	31.00	5.34	27.43	38.29	54.00	15.71
7440	31	PK	H	34.66	6.89	25.97	46.58	74.00	27.42
7440	17.55	AV	H	34.66	6.89	25.97	33.13	54.00	20.87
9920	30.16	PK	H	36.71	8.71	26.66	48.92	74.00	25.08
9920	17.25	AV	H	36.71	8.71	26.66	36.01	54.00	17.99
3970	51.18	PK	H	29.83	4.85	27.23	58.63	74.00	15.37
3970	18.99	AV	H	29.83	4.85	27.23	26.44	54.00	27.56
239.52	43.5	OP	V	12.21	1.86	21.48	36.09	46.00	9.91

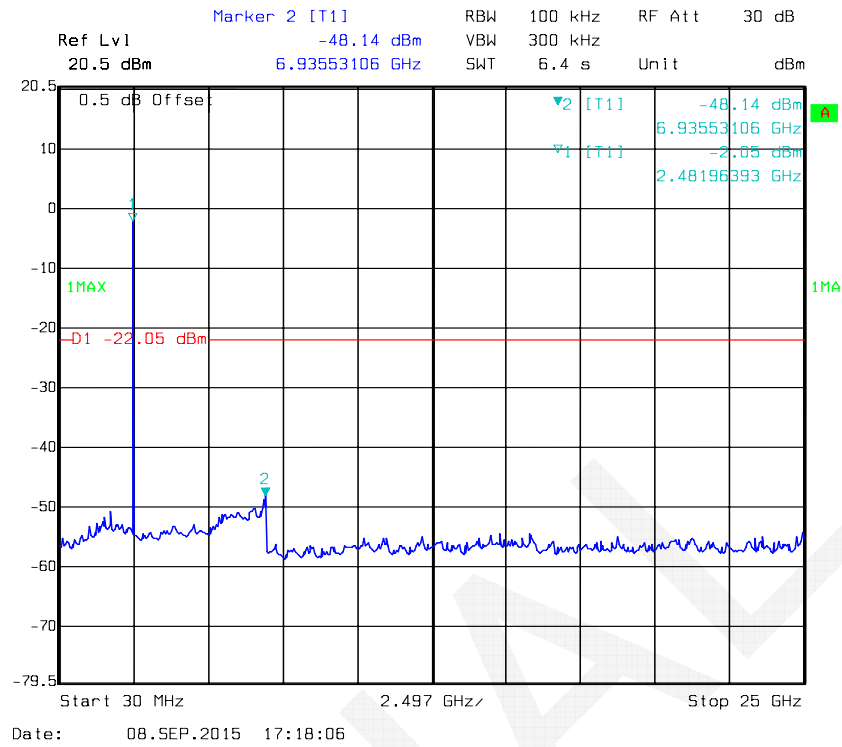
Conducted Spurious Emissions at Antenna Port*BDR Mode (GFSK):***Low Channel**

Date: 08.SEP.2015 17:20:09

Middle Channel

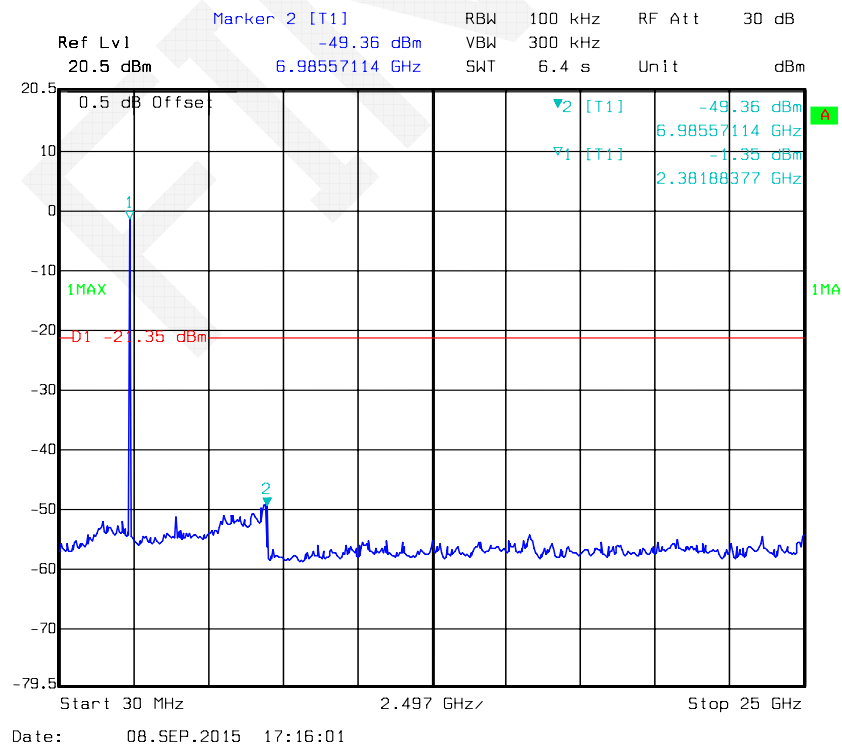
Date: 08.SEP.2015 17:21:03

High Channel

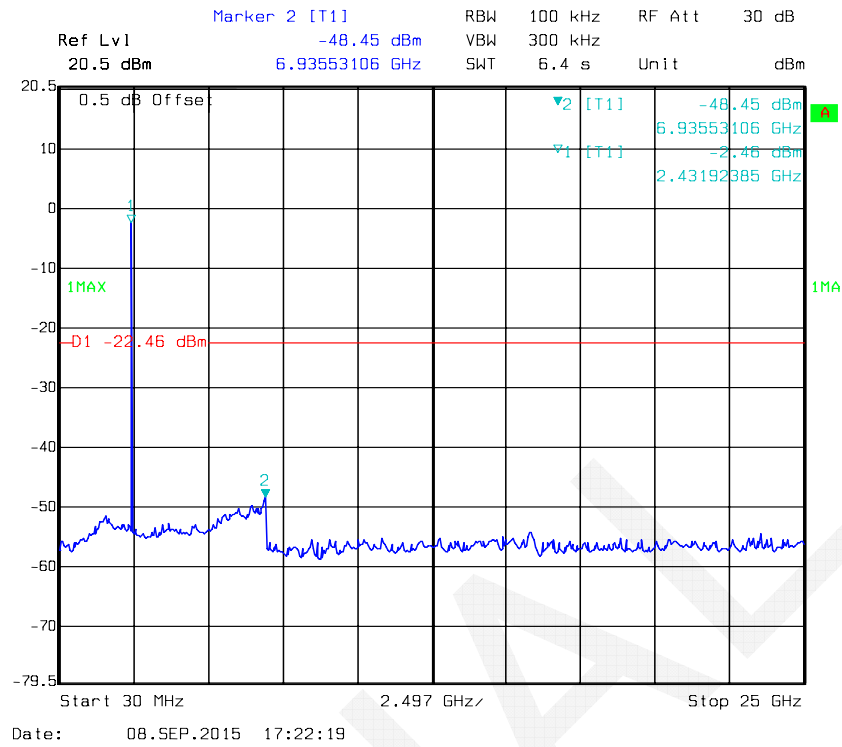


EDR Mode ($\pi/4$ -DQPSK):

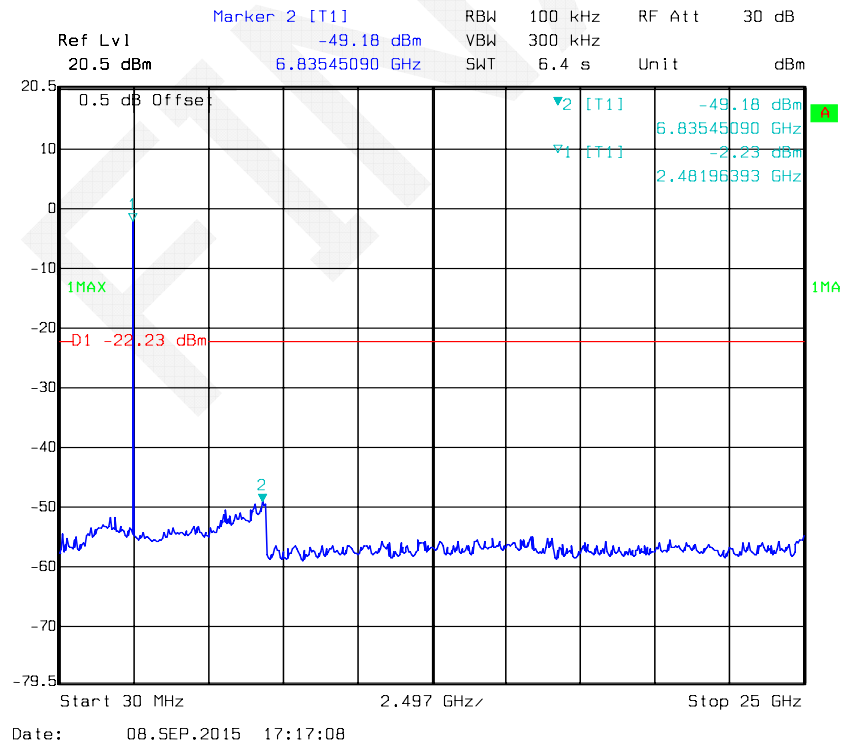
Low Channel



Middle Channel

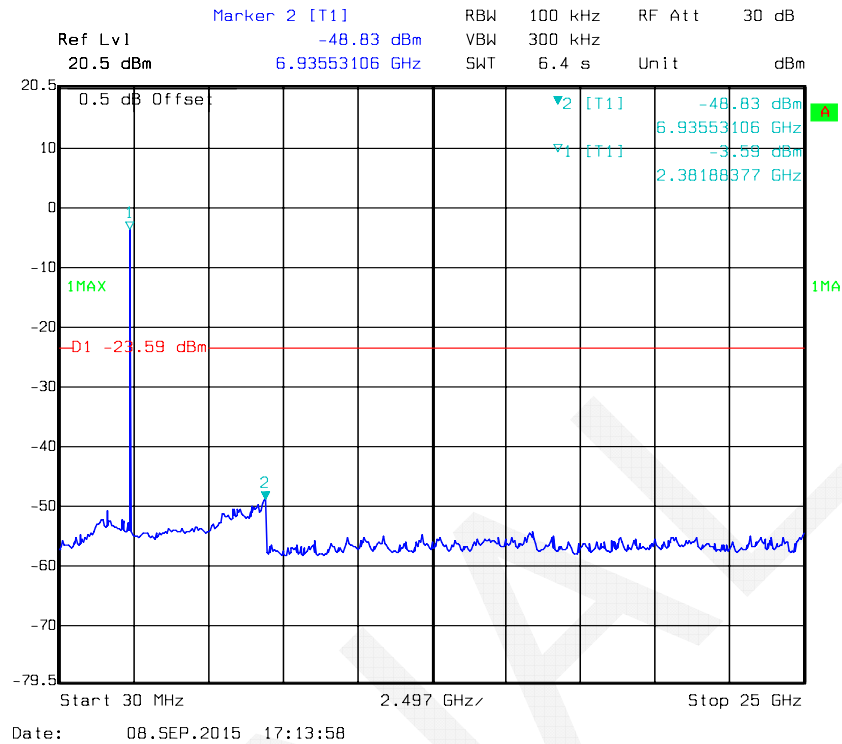


High Channel

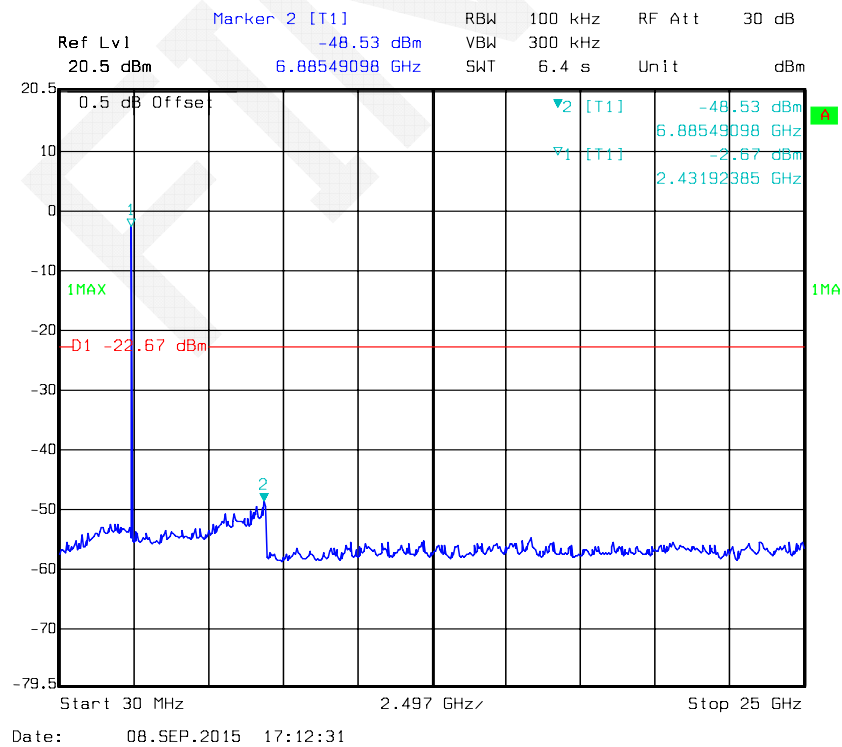


EDR Mode (8-DPSK):

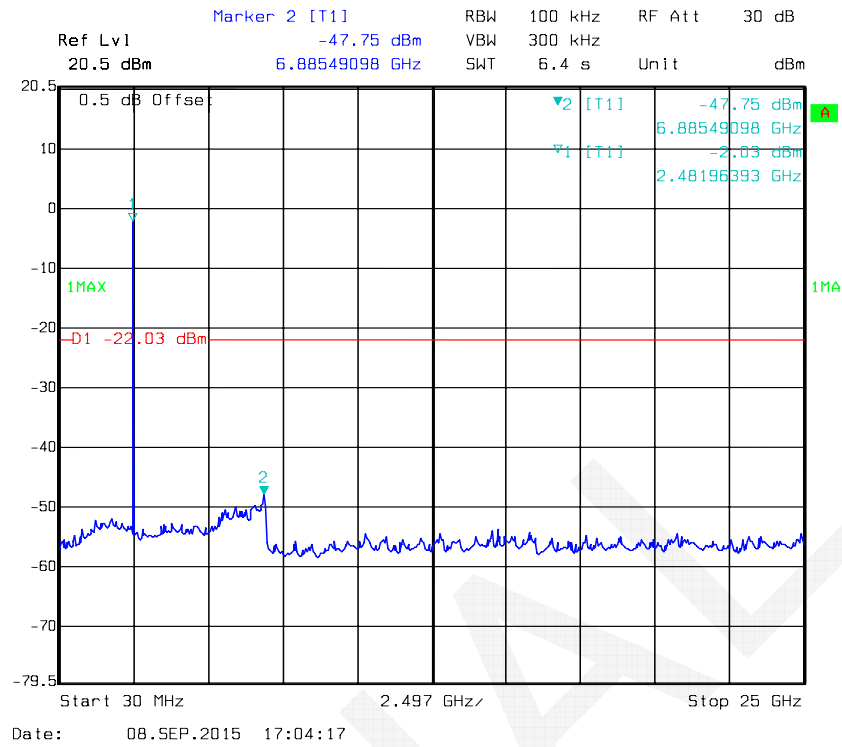
Low Channel



Middle Channel



High Channel



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

Applicable Standard

Frequency hopping systems shall have hopping 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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09

* **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

According to PUBLIC NOTICE DA 00-705
Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

Test Data

Environmental Conditions

Temperature:	27.2°C
Relative Humidity:	54 %
ATM Pressure:	100.2 kPa

* The testing was performed by Allen Qiao on 2015-09-01.

Test Result: Compliance.

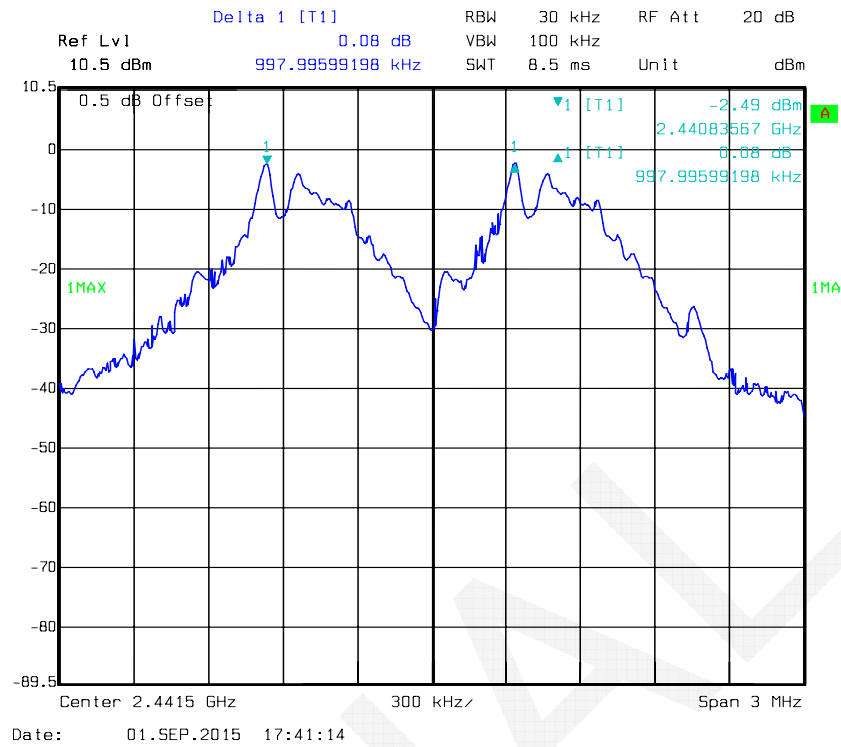
Please refer to following tables and plots

Mode	Channel	Frequency	Channel Separation	Limit	Result
		MHz	MHz	MHz	
BDR (GFSK)	Low	2402	0.997	0.577	Pass
	Middle	2441	0.997		
	High	2480	0.997		
EDR ($\pi/4$ -DQPSK)	Low	2402	0.997	0.753	Pass
	Middle	2441	0.997		
	High	2480	0.997		
EDR (8DPSK)	Low	2402	0.997	0.773	Pass
	Middle	2441	0.997		
	High	2480	0.997		

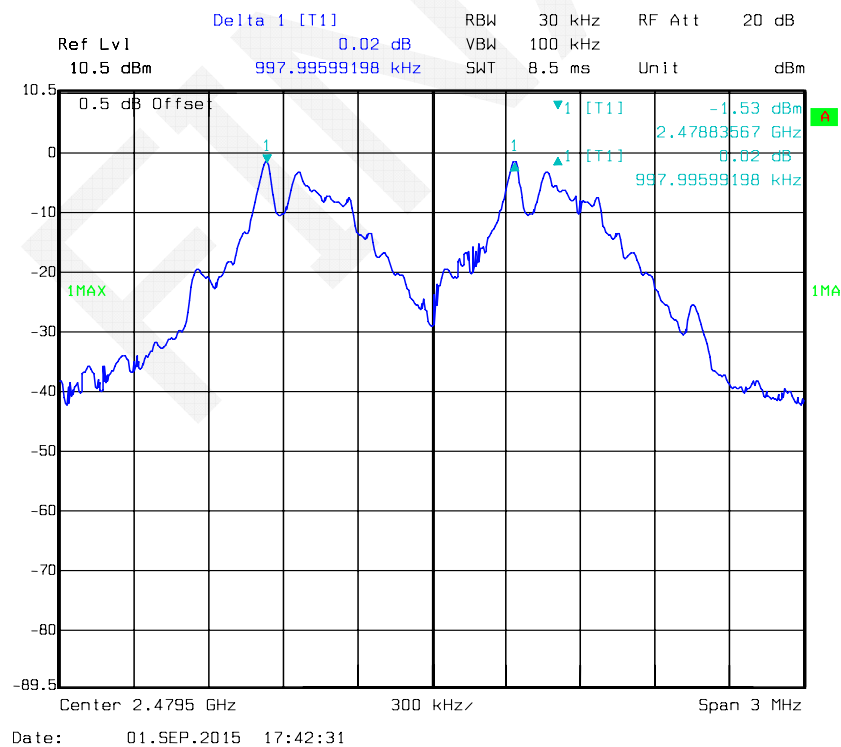
BDR Mode (GFSK):

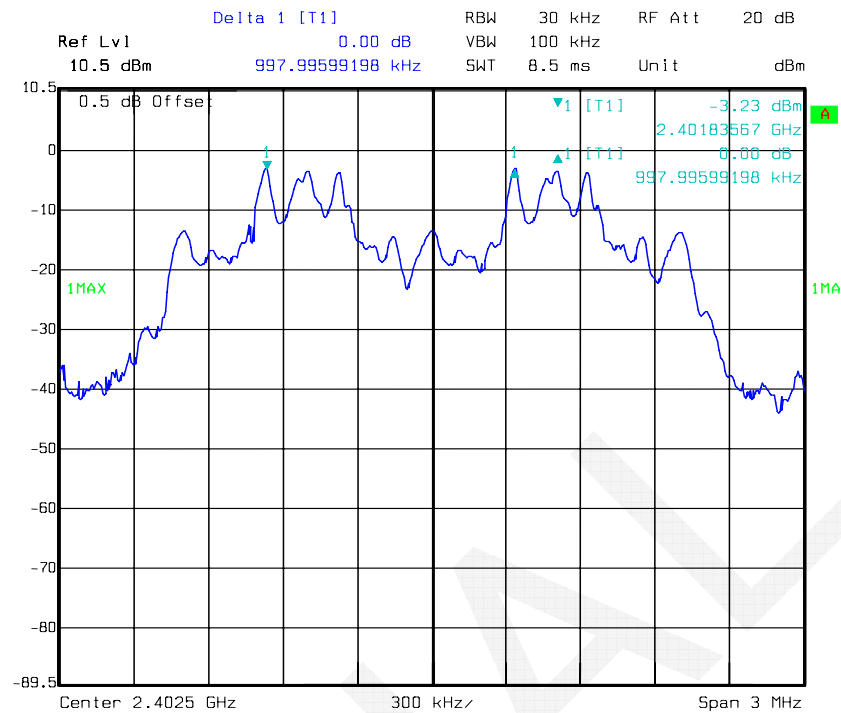


Middle Channel

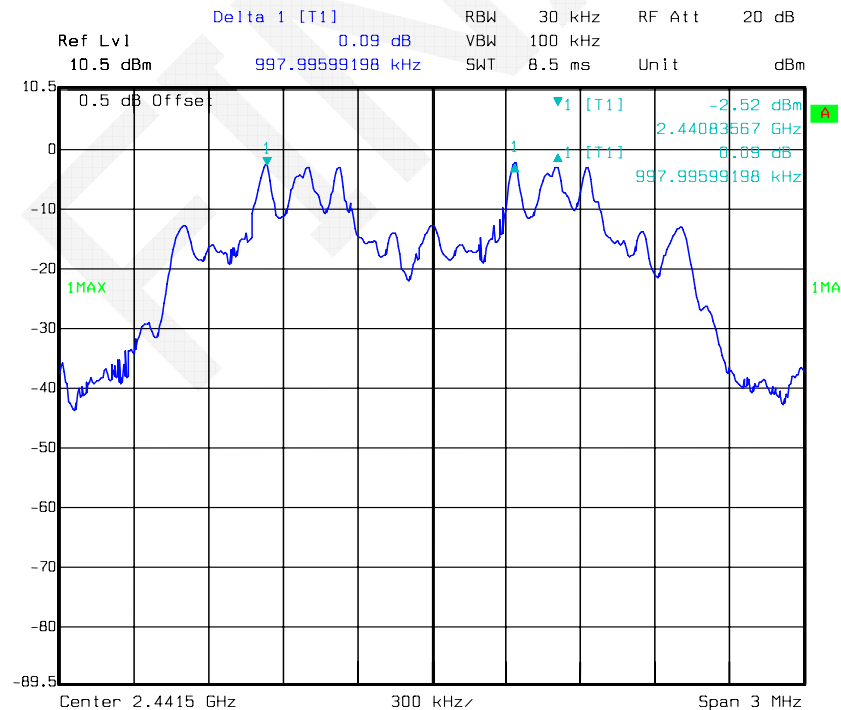


High Channel



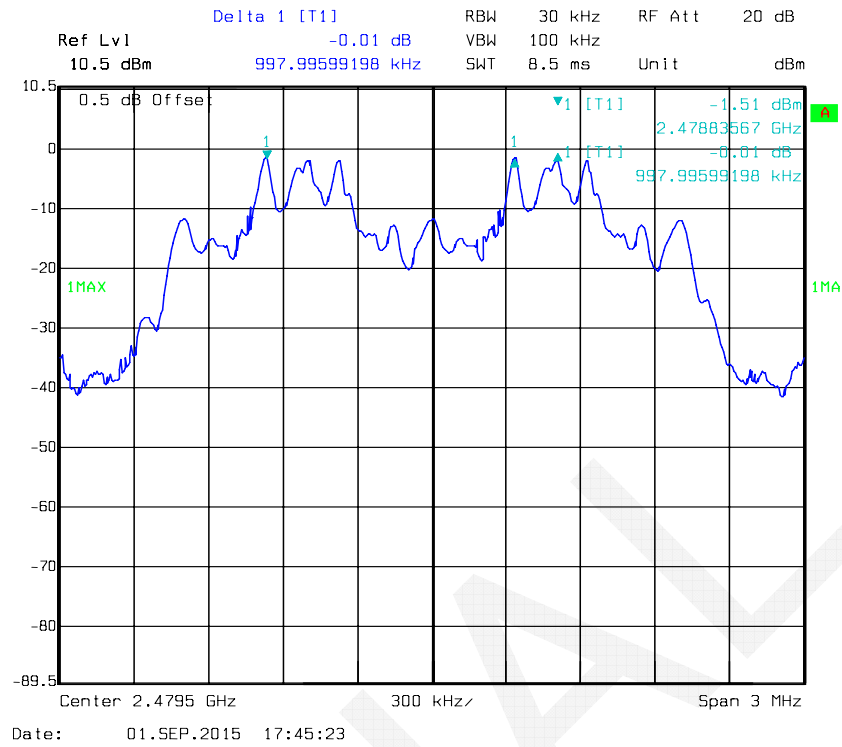
*EDR Mode ($\pi/4$ -DQPSK):***Low Channel**

Date: 01.SEP.2015 17:47:45

Middle Channel

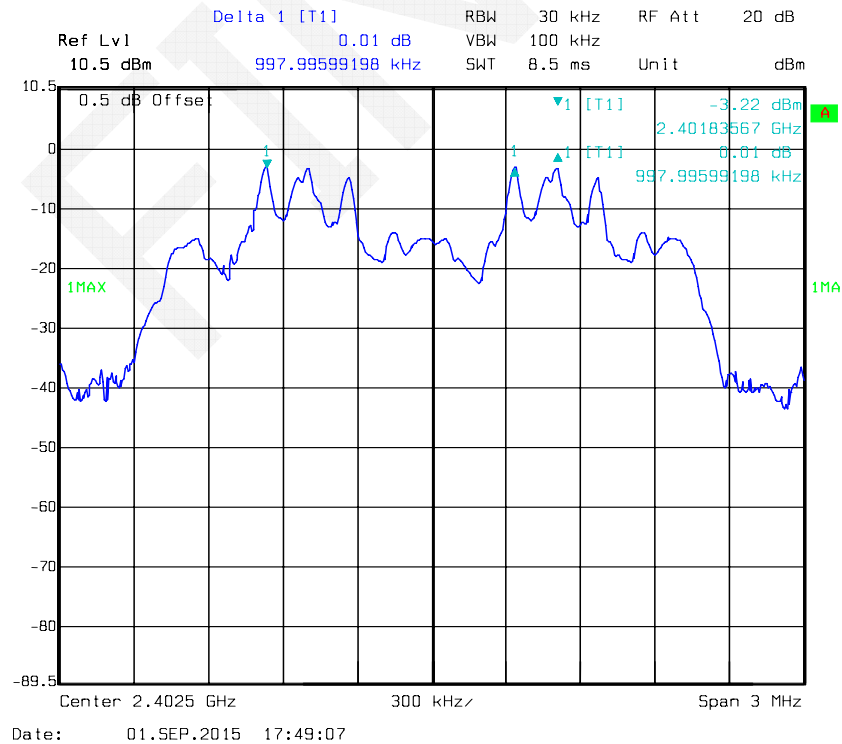
Date: 01.SEP.2015 17:46:41

High Channel

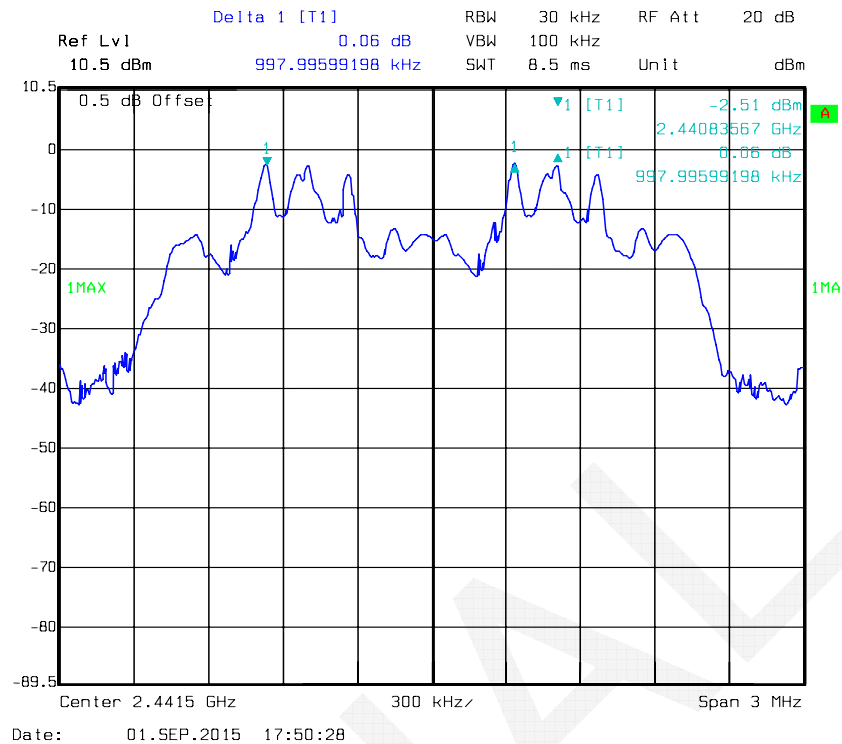


EDR Mode (8-DPSK):

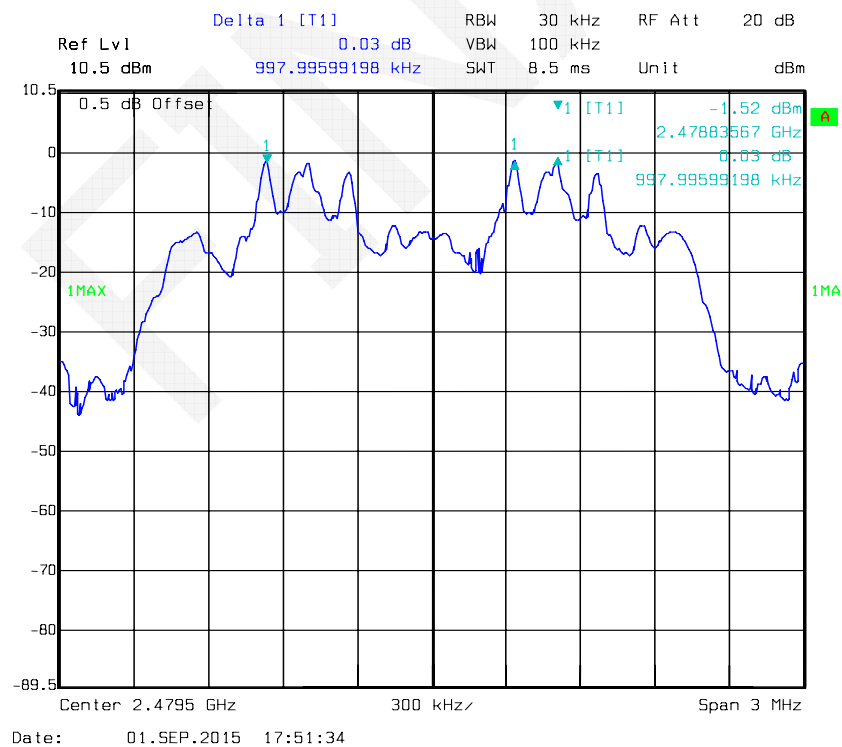
Low Channel



Middle Channel



High Channel



FCC §15.247(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.

Test Procedure

According to PUBLIC NOTICE DA 00-705
Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09

* **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:	27.2°C
Relative Humidity:	54 %
ATM Pressure:	100.2 kPa

* The testing was performed by Allen Qiao on 2015-09-01.

Test Result: Compliance.

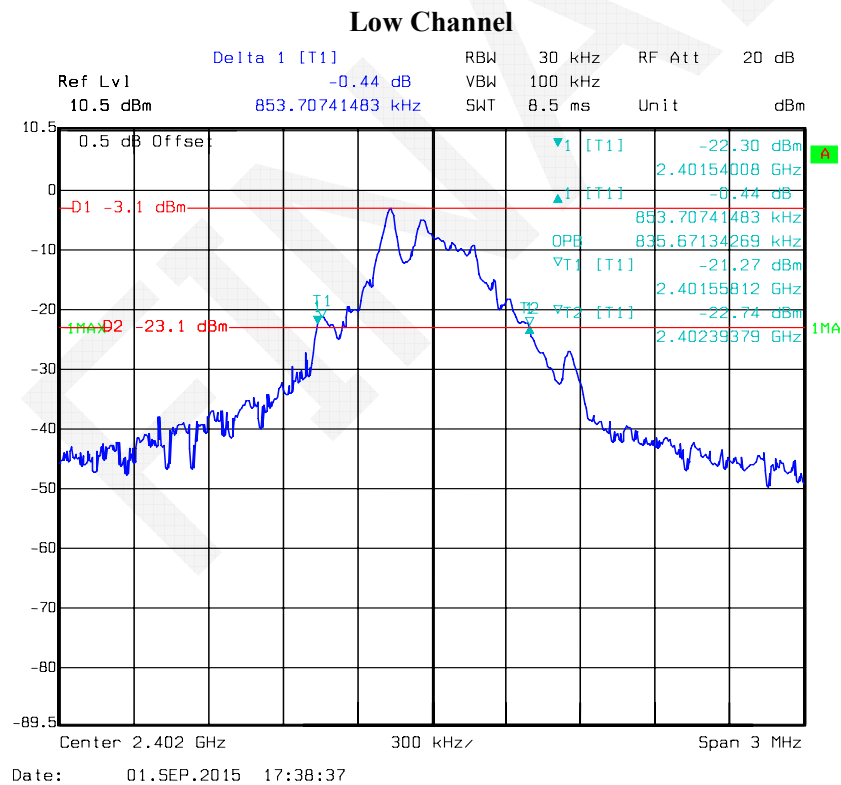
Please refer to following tables and plots

Test Mode: Transmitting

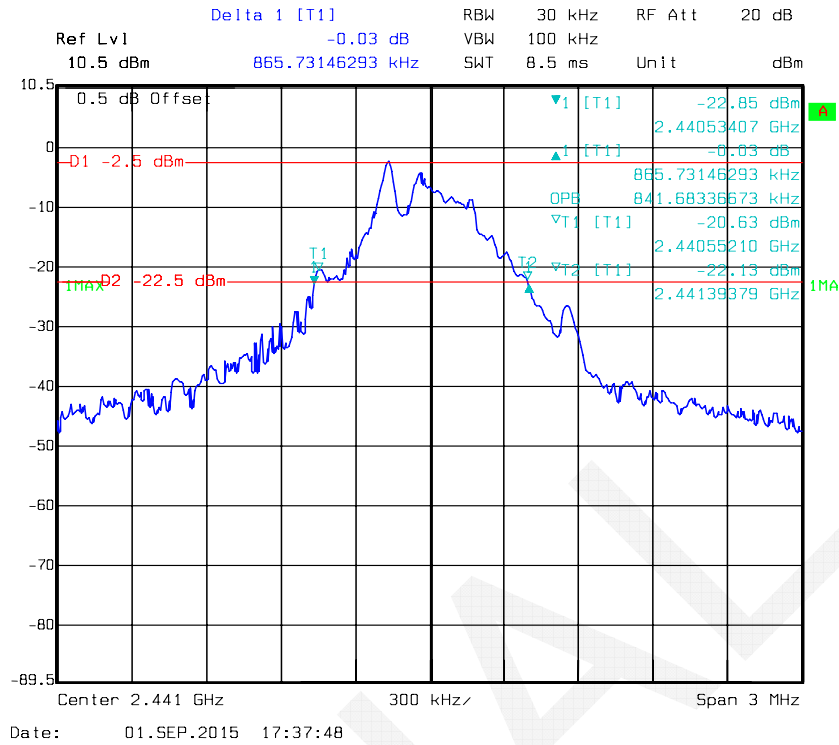
Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.853
	Middle	2441	0.865
	High	2480	0.865
EDR Mode ($\pi/4$ -DQPSK):	Low	2402	1.124
	Middle	2441	1.121
	High	2480	1.130
EDR Mode (8-DPSK):	Low	2402	1.160
	Middle	2441	1.154
	High	2480	1.154

Please refer to the following plots.

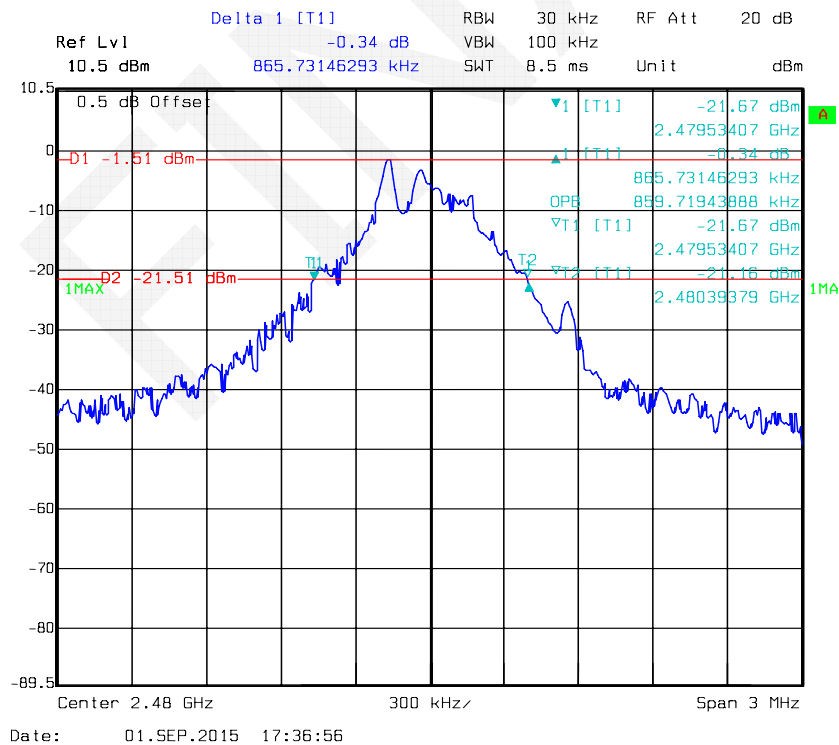
BDR Mode (GFSK):



Middle Channel

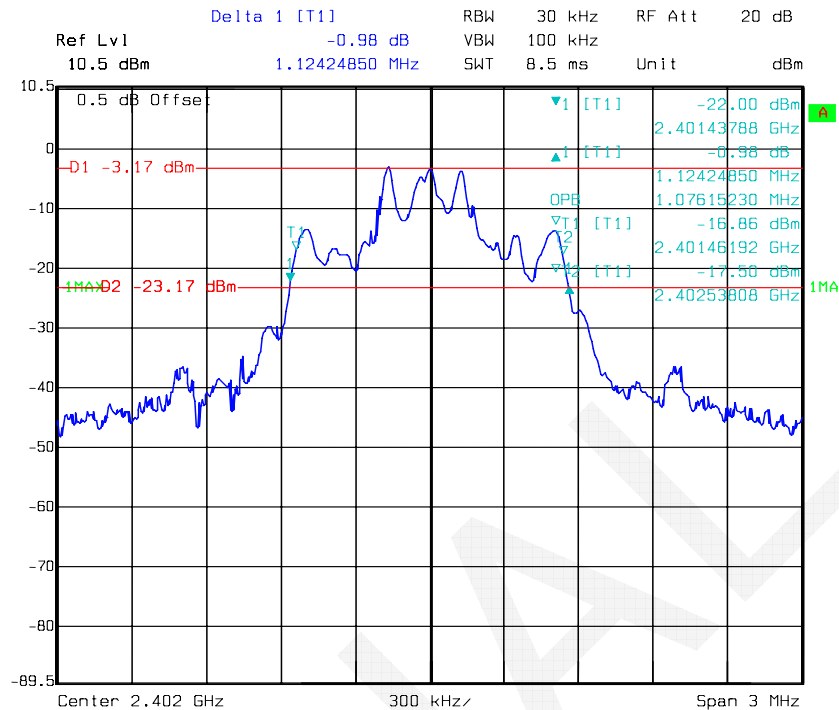


High Channel

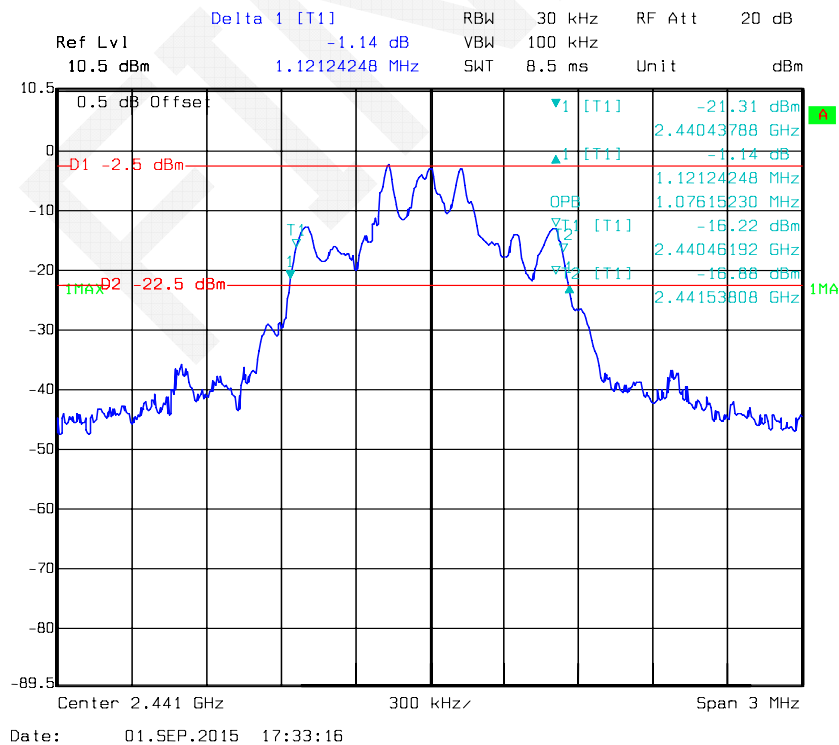


EDR Mode ($\pi/4$ -DQPSK):

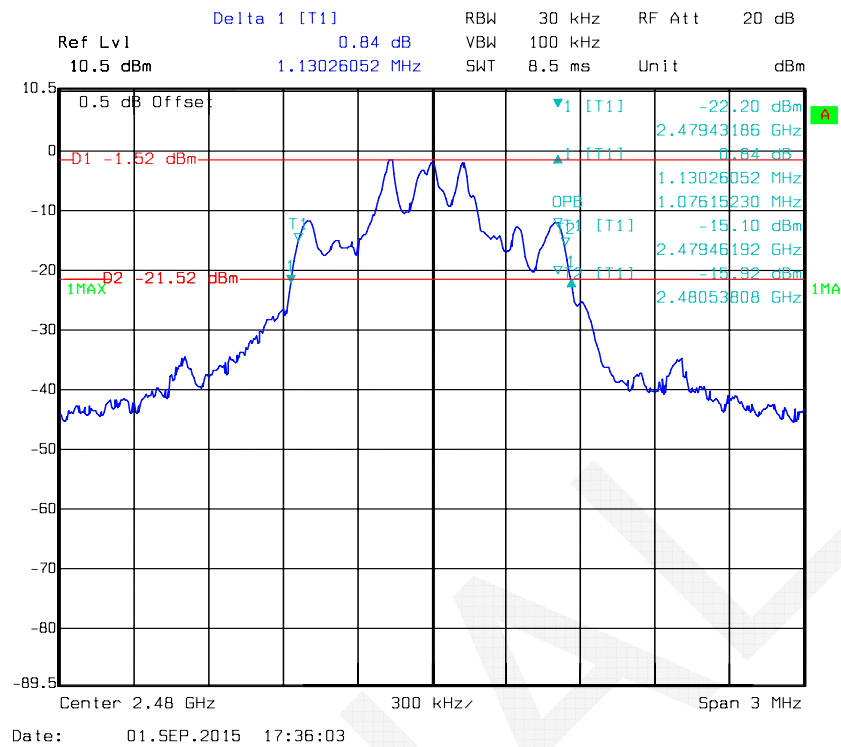
Low Channel



Middle Channel

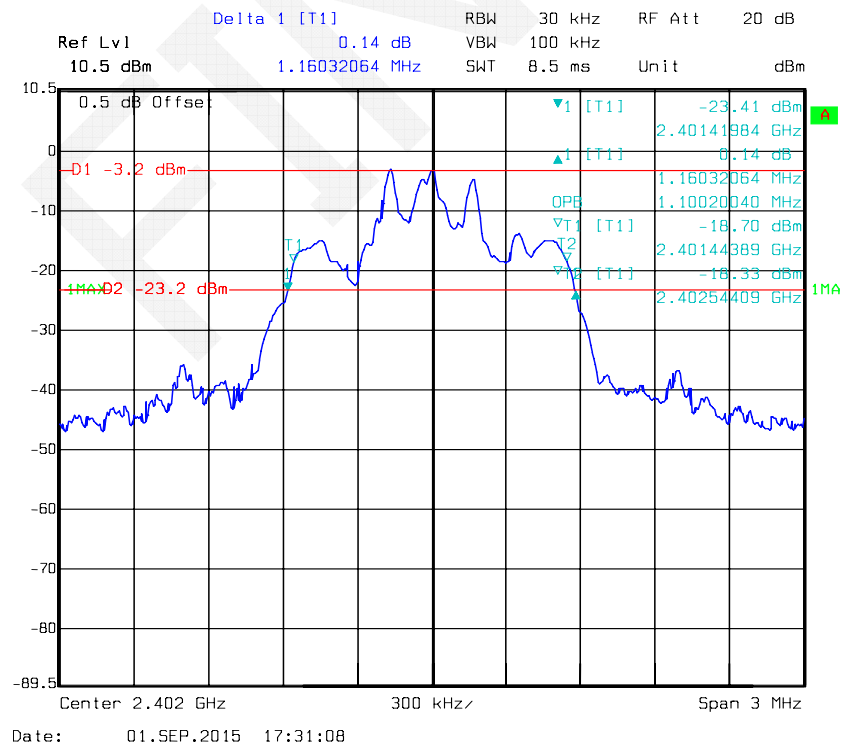


High Channel

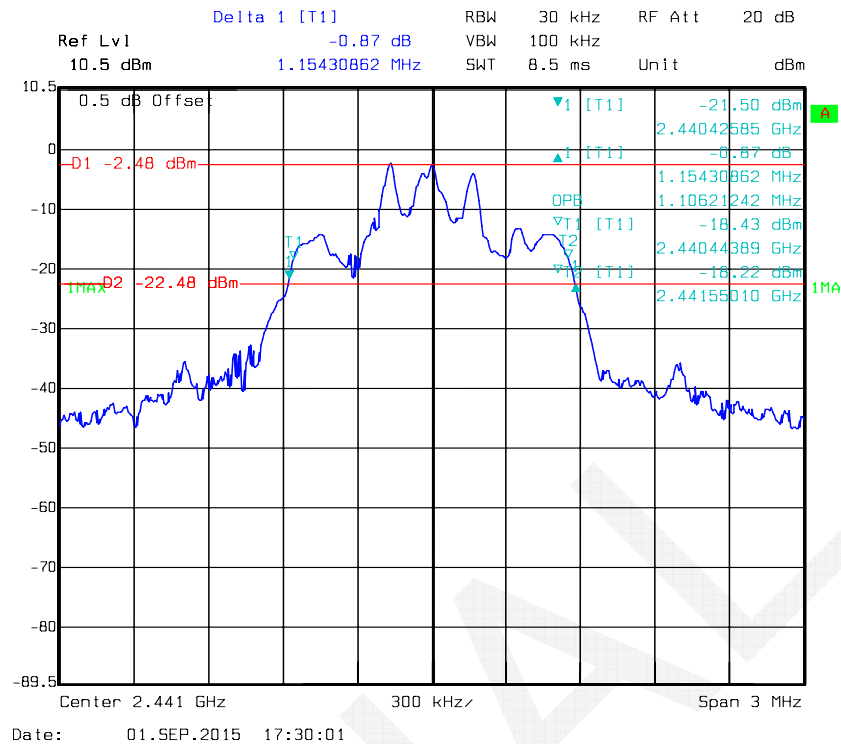


EDR Mode (8-DPSK):

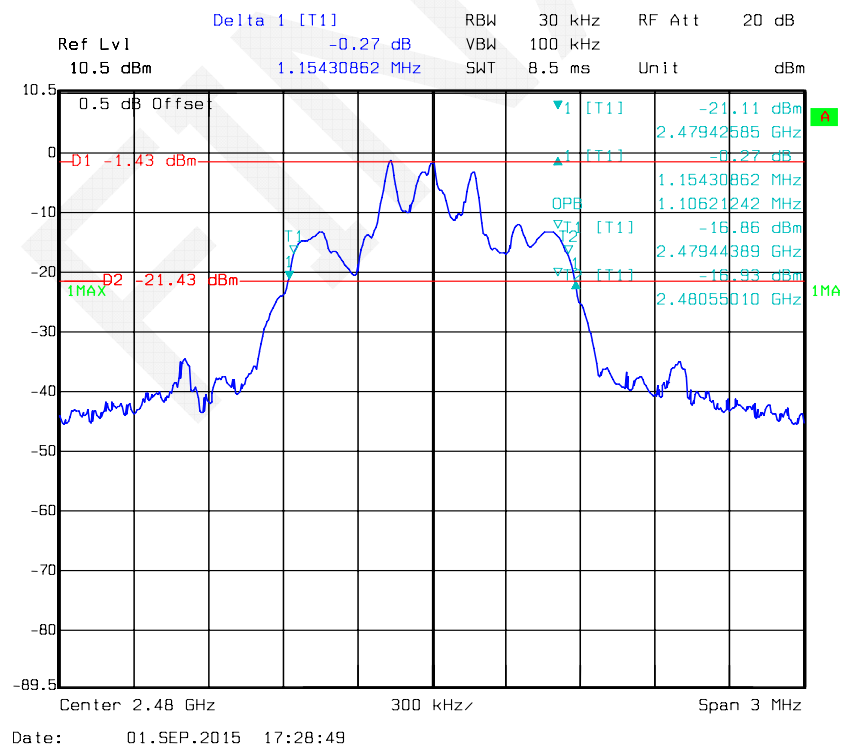
Low Channel



Middle Channel



High Channel



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.

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	2015-05-09	2016-05-09

* **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:	27.2°C
Relative Humidity:	54 %
ATM Pressure:	100.2 kPa

* The testing was performed by Allen Qiao on 2015-09-01

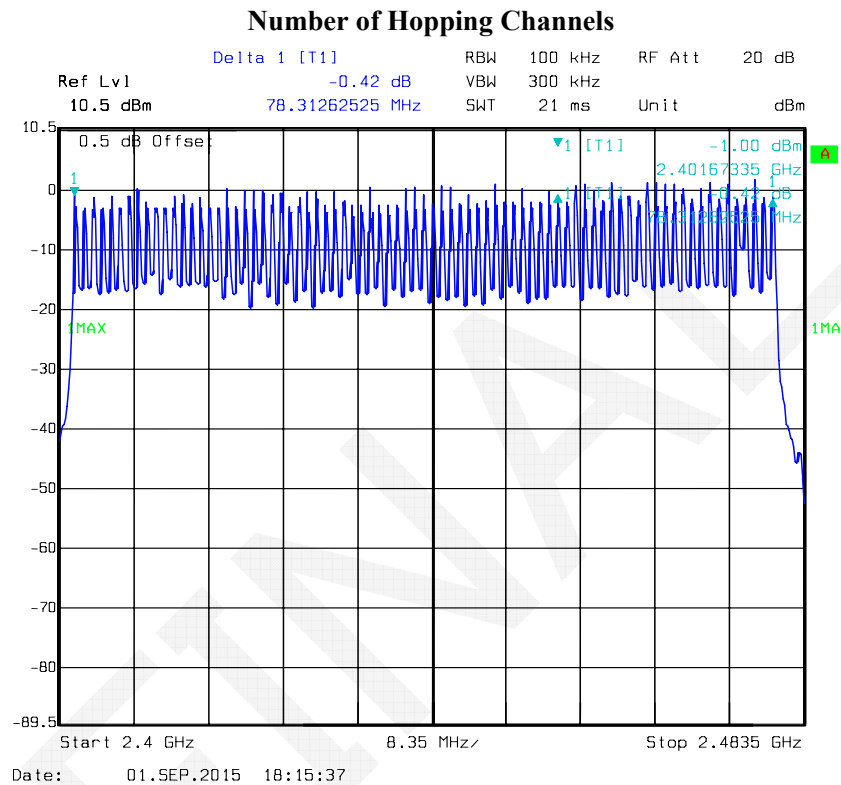
Test Result: Compliance.

Please refer to following tables and plots

Test Mode: Transmitting

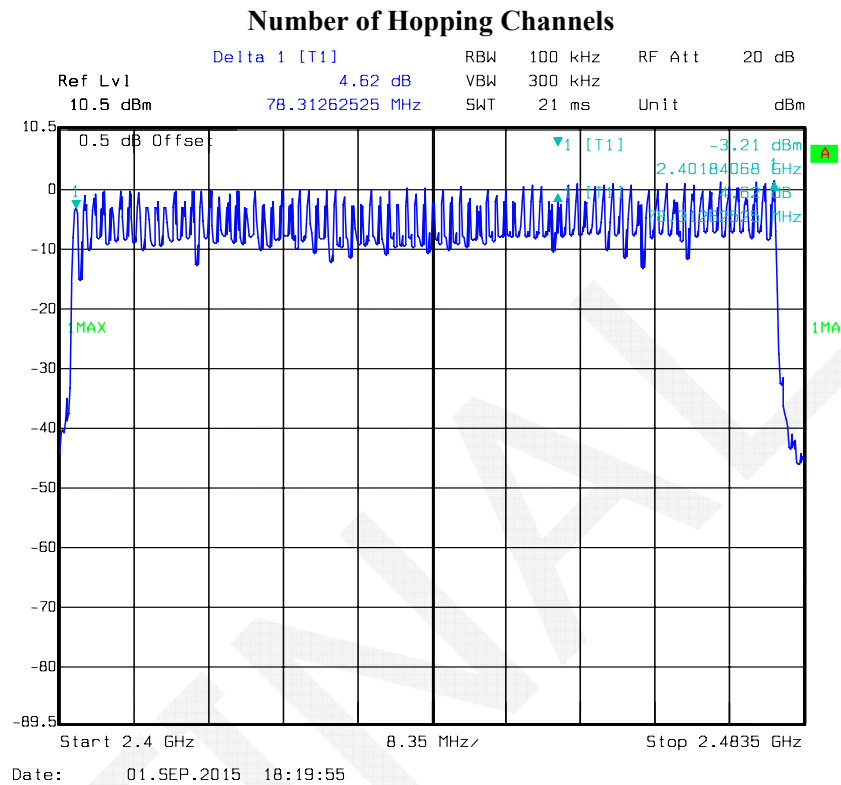
BDR Mode (GFSK):

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

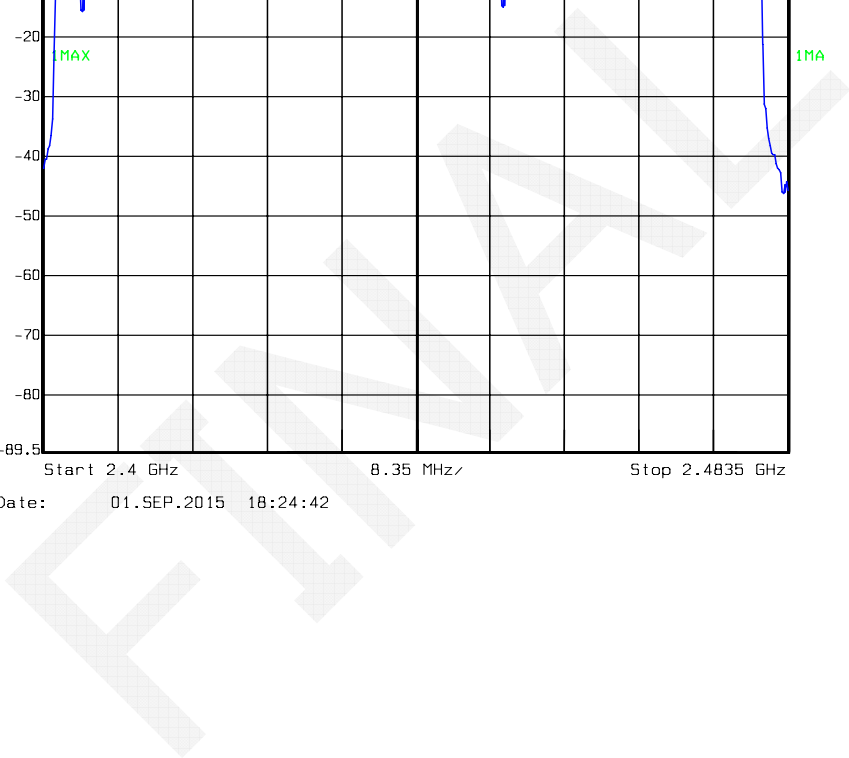


EDR Mode ($\pi/4$ -DQPSK):

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



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



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.

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as $0.4 \times \text{channel no. (s)}$, 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	2015-05-09	2016-05-09

* **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:	27.2 °C
Relative Humidity:	54 %
ATM Pressure:	100.2 kPa

* The testing was performed by Allen Qiao on 2015-09-01

Test Result: Compliance.

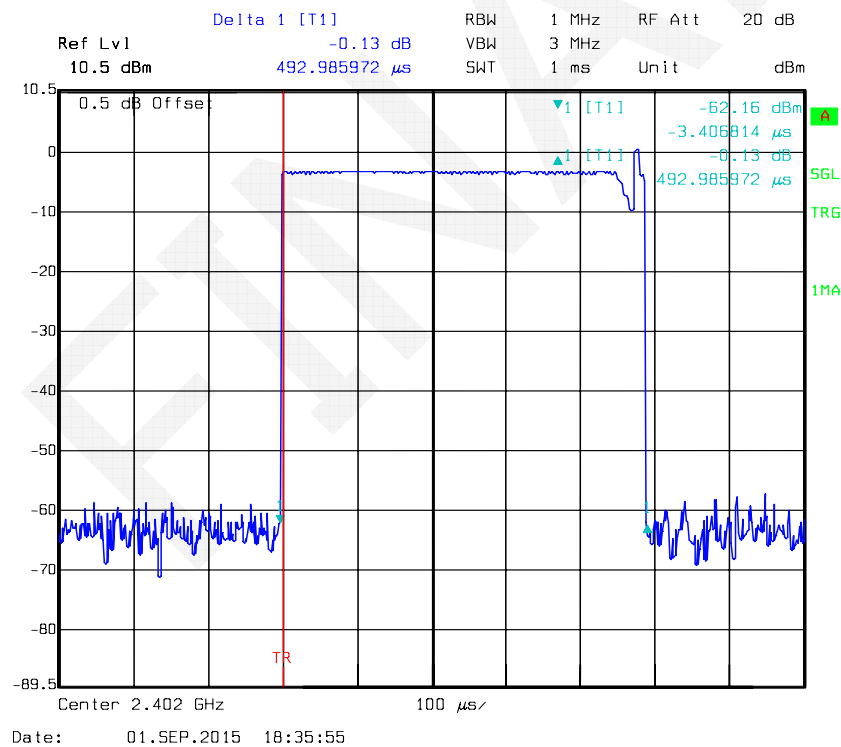
Please refer to following tables and plots

Test Mode: Transmitting

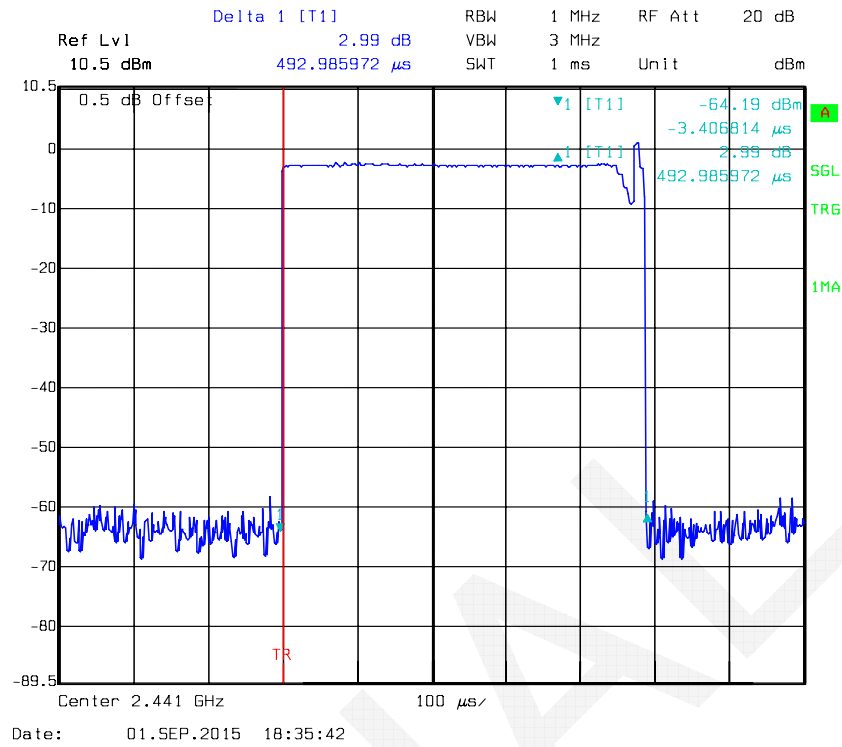
BDR Mode (GFSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.492	0.157	0.4	Pass
	Middle	0.492	0.157	0.4	Pass
	High	0.492	0.157	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
DH3	Low	1.761	0.282	0.4	Pass
	Middle	1.761	0.282	0.4	Pass
	High	1.761	0.282	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
DH5	Low	3.014	0.321	0.4	Pass
	Middle	3.014	0.321	0.4	Pass
	High	3.014	0.321	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

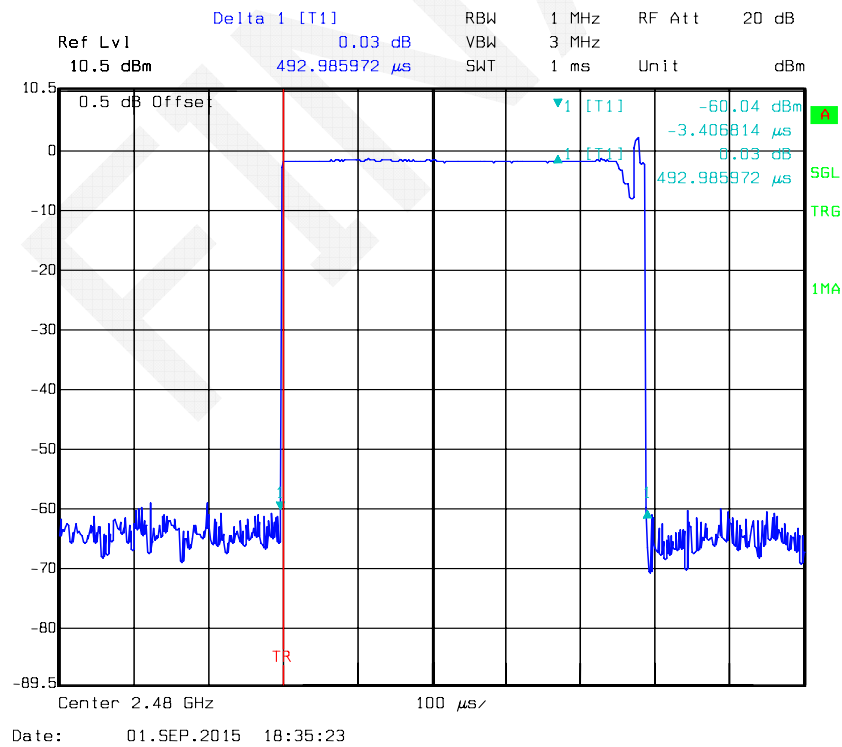
DH1: Low Channel



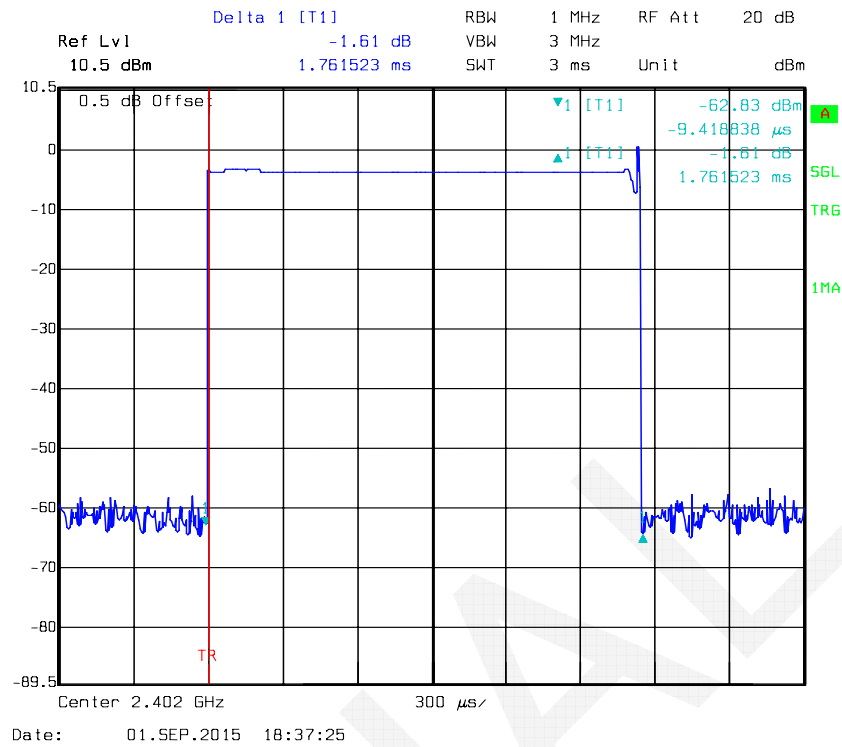
DH1: Middle Channel



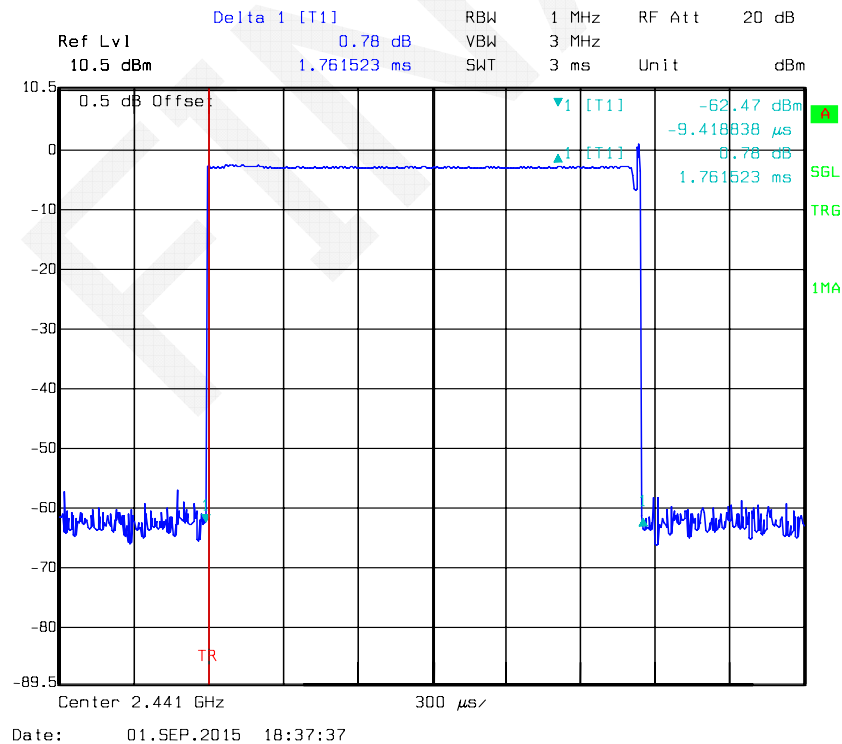
DH1: High Channel



DH3: Low Channel



DH3: Middle Channel



Ref Lvl 10.5 dBm

Delta 1 [T1] -0.46 dB

RBW 1 MHz

VBW 3 MHz

SWT 3 ms

RF Att 20 dB

Unit dBm

0.5 dB Offse

10.5

0

-10

-20

-30

-40

-50

-60

-70

-80

-89.5

Center 2.48 GHz

300 μ s

TR

1 [T1] -62.52 dBm

1 [T1] -9.418838 μ s

1 [T1] -0.46 dB

1 [T1] 1.761523 ms

SGL

TRG

1MA

Date: 01.SEP.2015 18:37:52

The screenshot displays a spectrum analyzer interface with a blue signal trace. The y-axis represents power level in dBm, ranging from -89.5 to 10.5. The x-axis represents frequency in GHz, centered at 2.402 GHz with a scale bar indicating 500 MHz.

Measurement Parameters:

- Ref Lvl: 10.5 dBm
- Delta 1 [T1]: 1.45 dB
- RBW: 1 MHz
- VBW: 3 MHz
- SWT: 5 ms
- RF Att: 20 dB
- Unit: dBm

Trace Settings:

- Offset: 0.5 dB
- TR: A red vertical line marks a specific frequency point.
- T1: Two green triangles mark points on the trace, with associated measurements:
 - 60.71 dBm
 - 29.458918 μs
 - 1.45 dB
 - 3.014028 ms

Date and Time: 01.SEP.2015 18:45:56

Ref Lvl 10.5 dBm Delta 1 [T1] 1.35 dB RBW 1 MHz RF Att 20 dB

0.5 dB Offset 3.014028 ms VBW 3 MHz Unit dBm

0.5 dB Offset -60.40 dBm

-29.458918 μ s

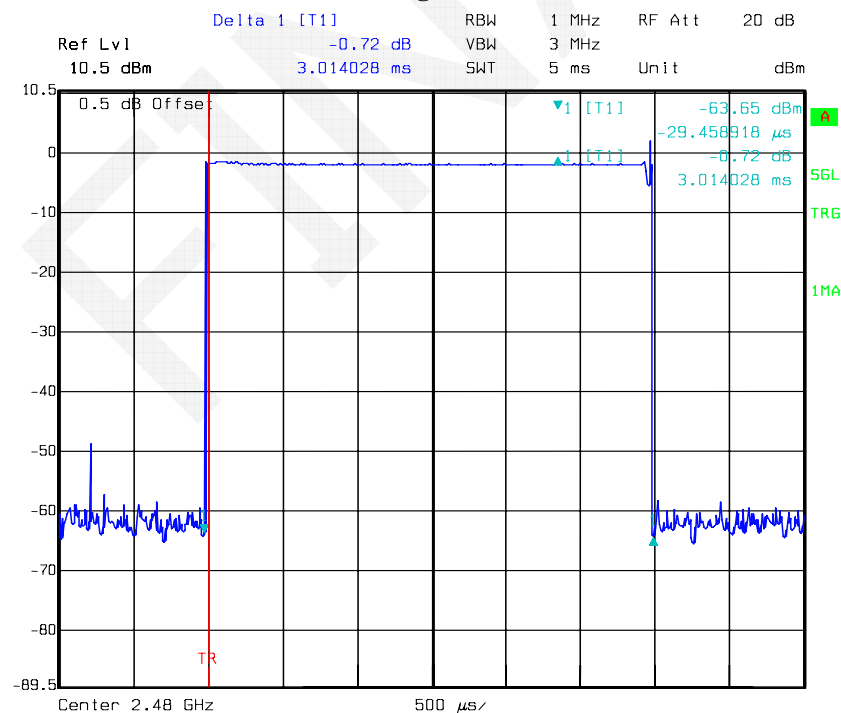
1.35 dB

3.014028 ms

TR

Center 2.441 GHz 500 MHz

DH5: High Channel

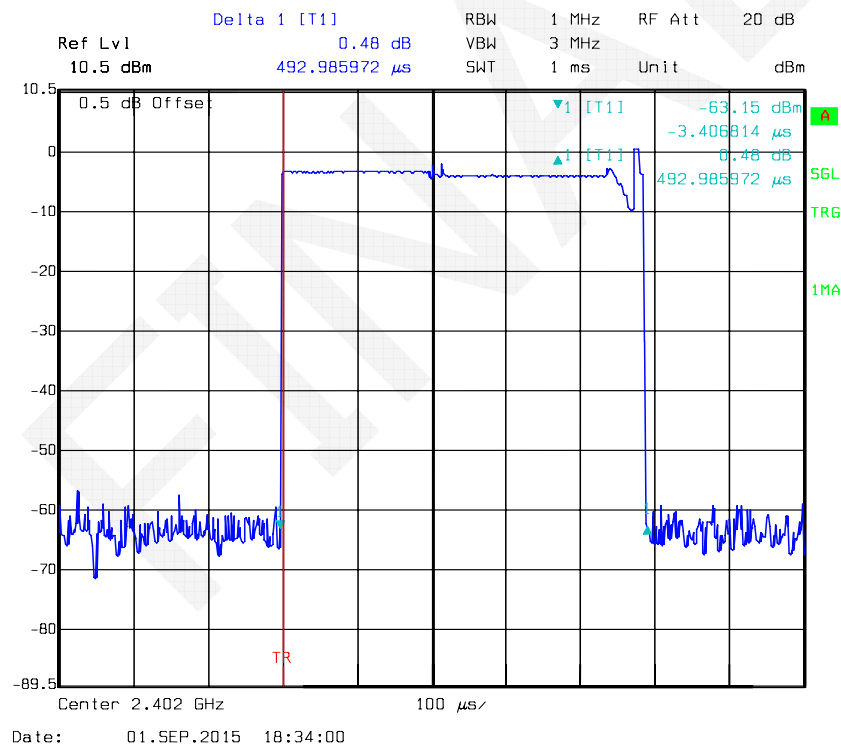


Page 47 of 68

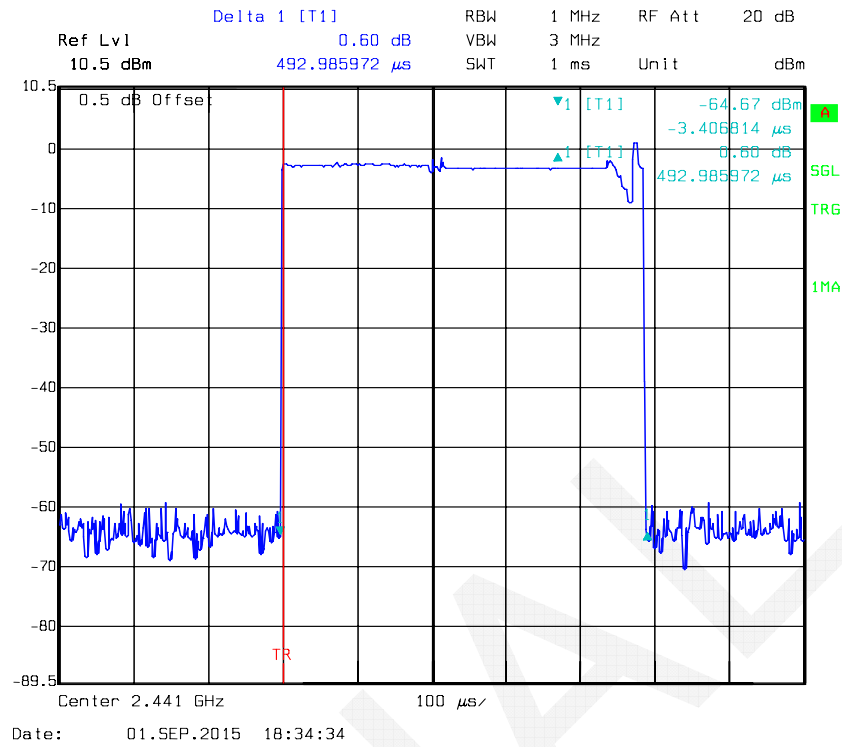
EDR Mode ($\pi/4$ -DQPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.492	0.157	0.4	Pass
	Middle	0.492	0.157	0.4	Pass
	High	0.492	0.157	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
DH3	Low	1.761	0.282	0.4	Pass
	Middle	1.761	0.282	0.4	Pass
	High	1.761	0.282	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
DH5	Low	3.014	0.321	0.4	Pass
	Middle	3.014	0.321	0.4	Pass
	High	3.014	0.321	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

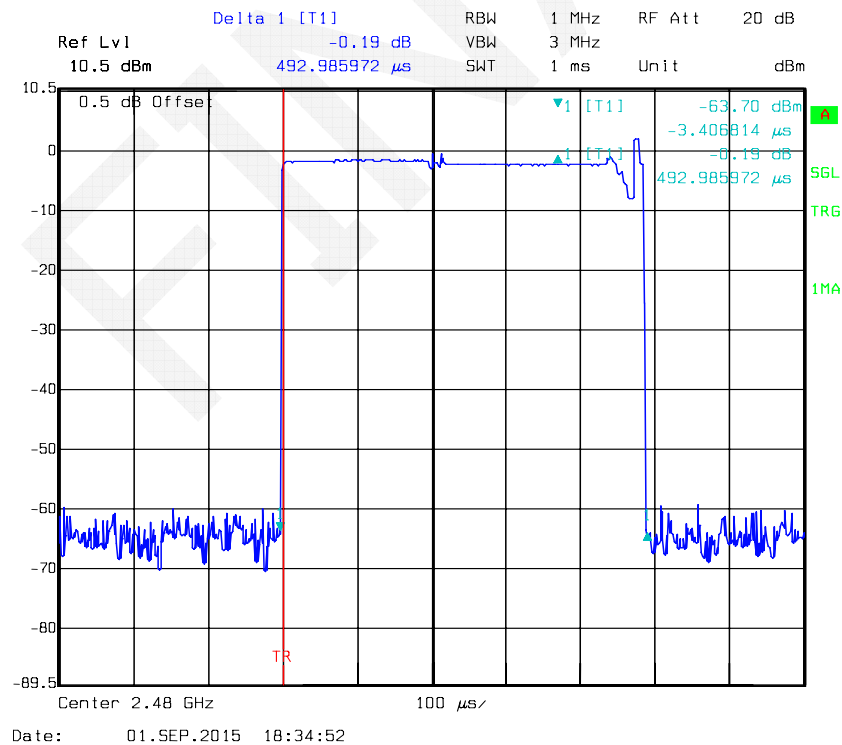
DH1: Low Channel



DH1: Middle Channel



DH1: High Channel



Ref Lvl 10.5 dBm

Delta 1 [T1] 0.35 dB

1.761523 ms

RBW 1 MHz

VBW 3 MHz

SWT 3 ms

RF Att 20 dB

Unit dBm

0.5 dB Offset

▼1 [T1] -61.92 dBm

▲1 [T1] -9.41838 μs

0.35 dB

1.761523 ms

TR

Center 2.402 GHz

300 μs

Date: 01.SEP.2015 18:40:16

Ref Lvl 10.5 dBm Delta 1 [T1] 1.73 dB RBW 1 MHz RF Att 20 dB
 10.5 dBm 1.761523 ms SWT 3 ms Unit dBm

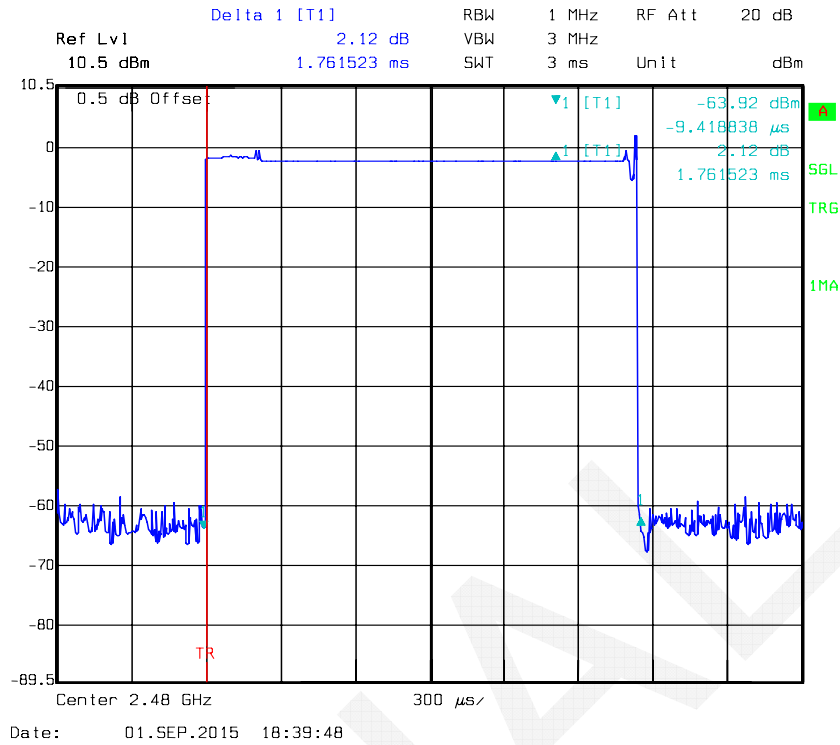
0.5 dB Offset

-60.74 dBm
 -9.418338 μ s
 1.73 dB
 1.761523 ms

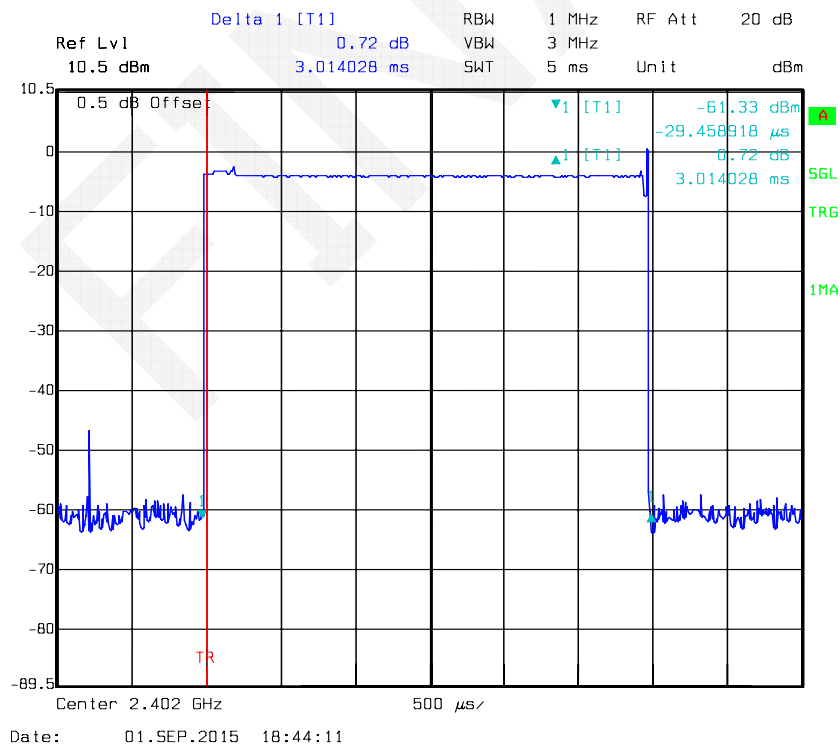
Center 2.441 GHz 300 μ s

Date: 01.SEP.2015 18:40:04

DH3: High Channel

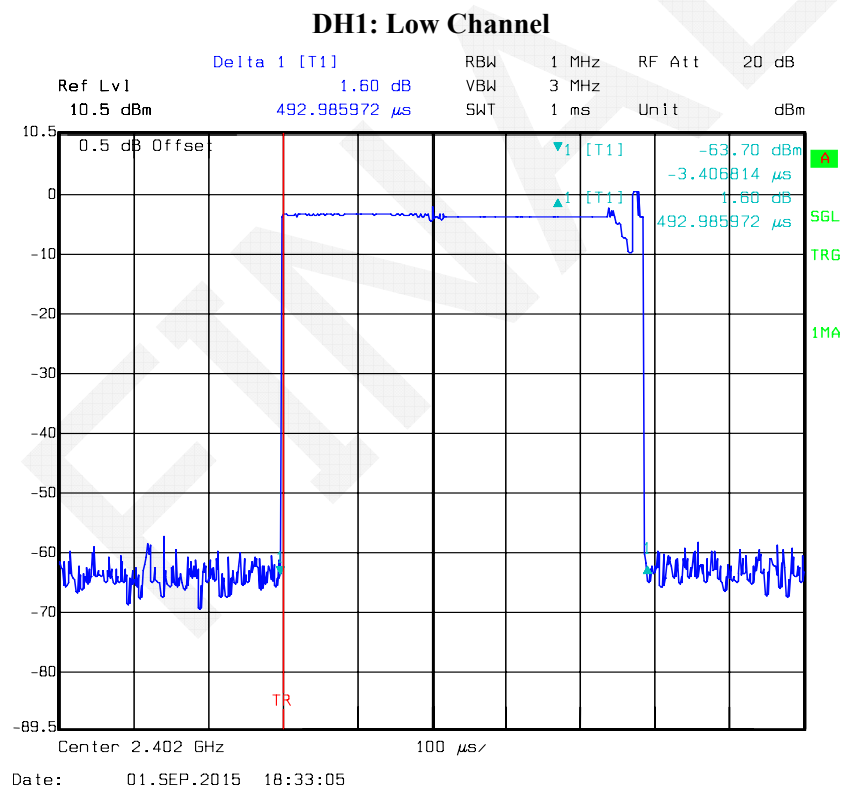


DH5: Low Channel

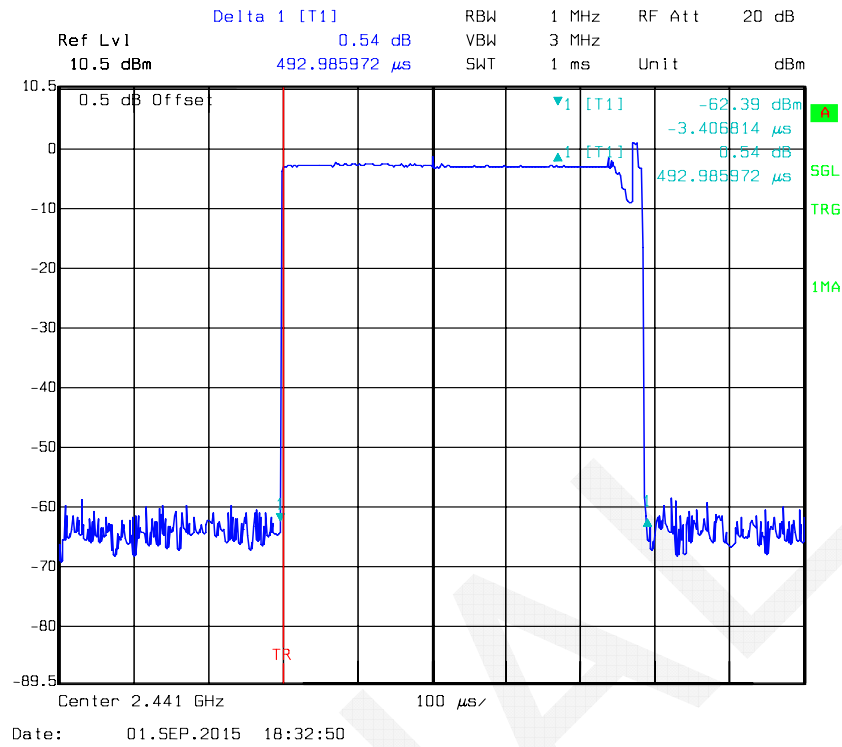


[illegible]

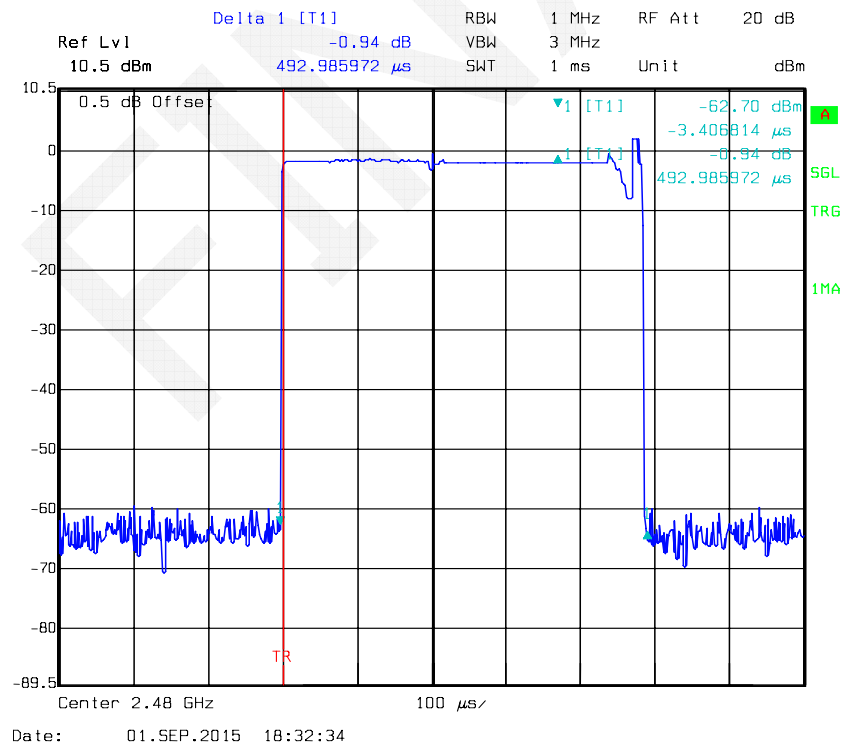
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
<i>DH1</i>	Low	0.492	0.157	0.4	Pass
	Middle	0.492	0.157	0.4	Pass
	High	0.492	0.157	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
<i>DH3</i>	Low	1.761	0.282	0.4	Pass
	Middle	1.761	0.282	0.4	Pass
	High	1.761	0.282	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
<i>DH5</i>	Low	3.014	0.321	0.4	Pass
	Middle	3.014	0.321	0.4	Pass
	High	3.014	0.321	0.4	Pass
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				



DH1: Middle Channel



DH1: High Channel



Ref Lvl 10.5 dBm

Delta 1 [T1] -0.15 dB

RBW 1 MHz

RF Att 20 dB

VBW 3 MHz

SWT 3 ms

Unit dBm

0.5 dB Offset

-61.55 dBm

-9.41838 μs

-0.15 dB

1.761523 ms

TRG

IMA

Center 2.402 GHz

300 μs

Date: 01.SEP.2015 18:40:53

Ref Lvl 10.5 dBm

Delta 1 [T1] 3.14 dB

RBW 1 MHz

VBW 3 MHz

RF Att 20 dB

10.5 dBm

1.761523 ms

SWT 3 ms

Unit dBm

0.5 dB Offset

TR

Center 2.441 GHz

300 μ s

-64.73 dBm

-9.41838 μ s

3.14 dB

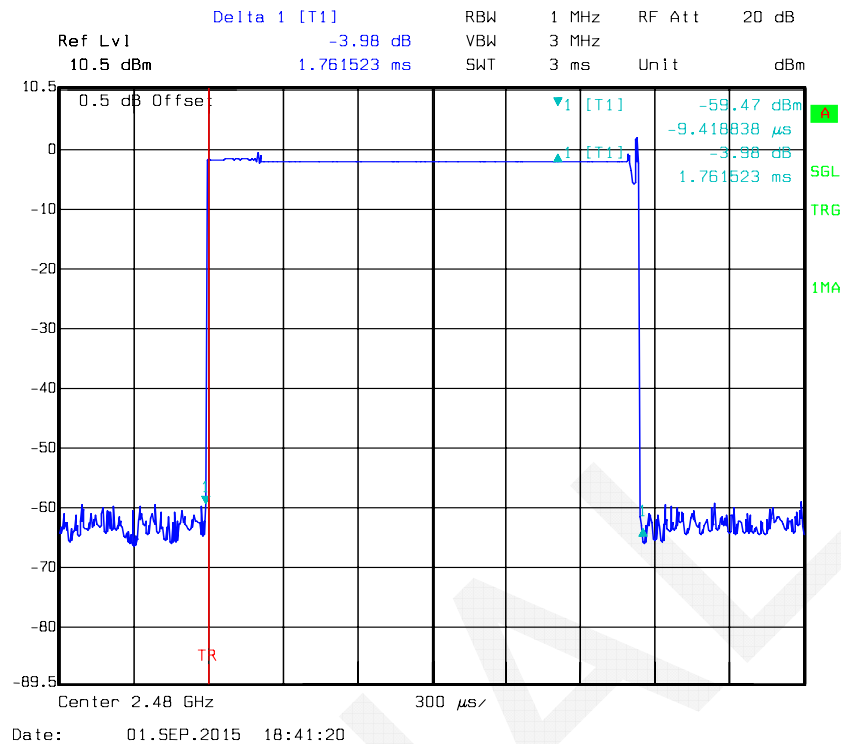
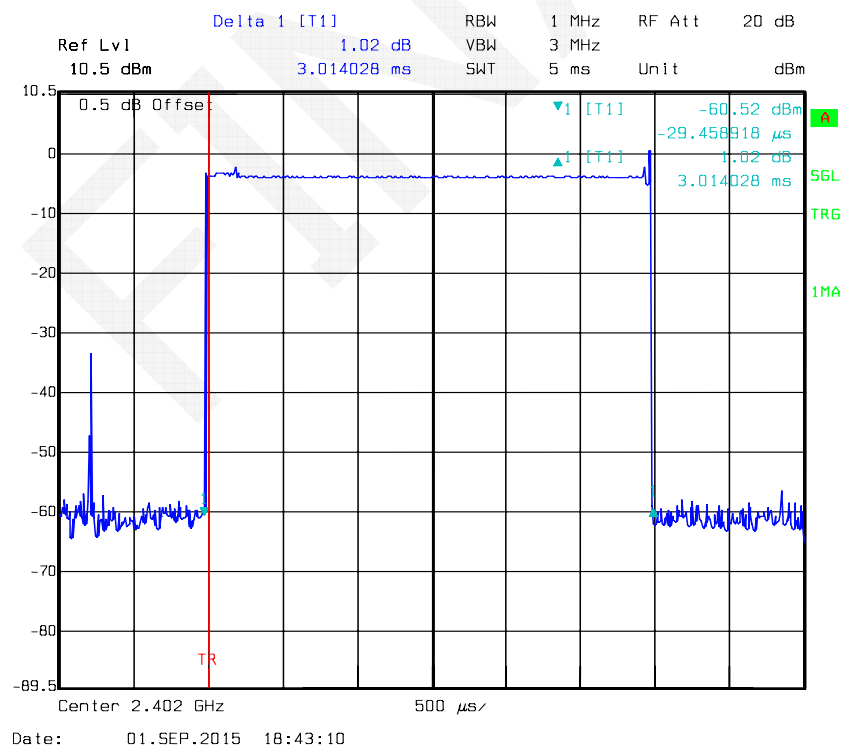
1.761523 ms

SGL

TRG

1MA

Date: 01.SEP.2015 18:41:05

DH3: High Channel**DH5: Low Channel**

Ref Lvl 10.5 dBm Delta 1 [T1] 2.19 dB 3.014028 ms RBW 1 MHz VBW 3 MHz SWT 5 ms RF Att 20 dB Unit dBm

0.5 dB Offset: -64.09 dBm -29.458918 μs 3.014028 ms

Center 2.441 GHz 500 μs/

Date: 01.SEP.2015 18:42:54

Ref Lvl 10.5 dBm Delta 1 [T1] -1.46 dB RBW 1 MHz RF Att 20 dB
 10.5 dBm 3.014028 ms VBW 3 MHz SWT 5 ms Unit dBm

0.5 dB Offset

10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-95

Center 2.48 GHz 500 MHz

TR

1 [T1] -59.78 dBm
 -29.458918 μs
 -1.46 dB
 3.014028 ms

SGL
TRG
1MA

Date: 01.SEP.2015 18:42:34

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.

Test Procedure

According to PUBLIC NOTICE DA 00-705

Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

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 an 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	2015-05-09	2016-05-09

* **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:	27.2 °C
Relative Humidity:	54 %
ATM Pressure:	100.2 kPa

* The testing was performed by Allen Qiao on 2015-09-01.

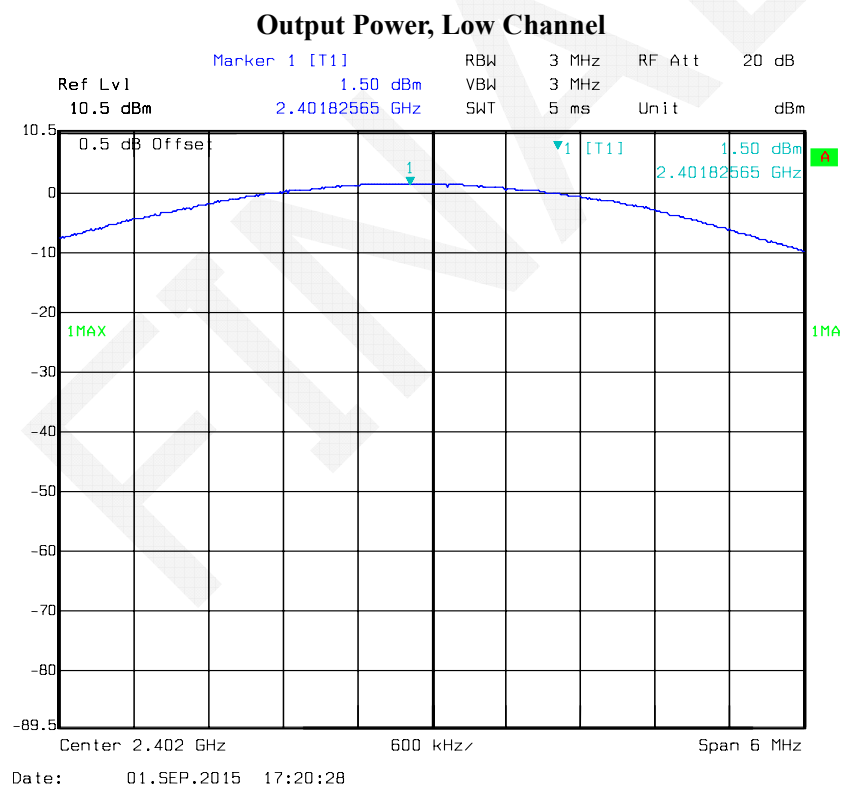
Test Result: Compliance.

Test Mode: Transmitting

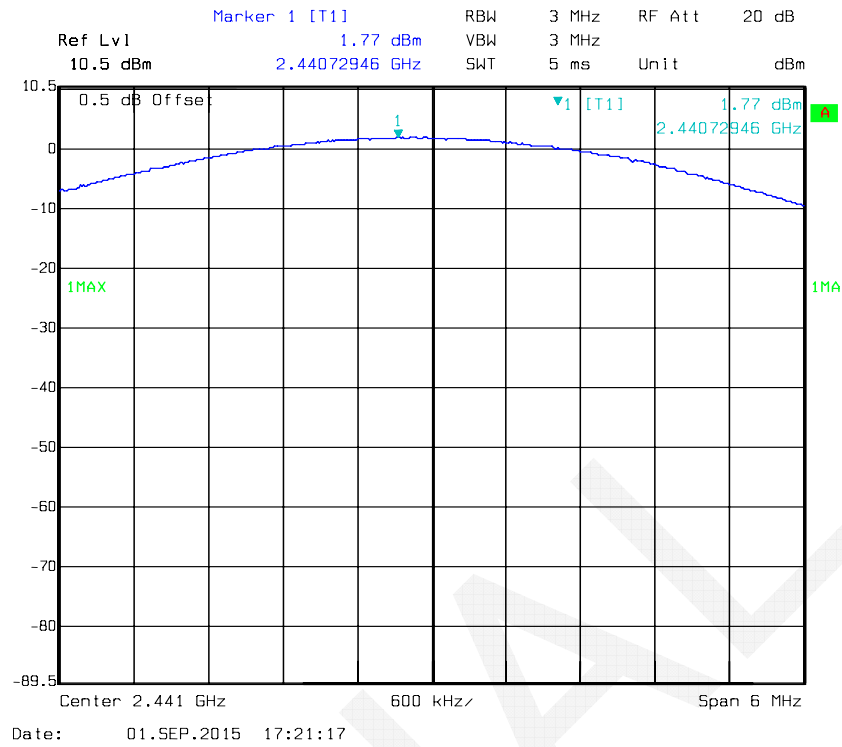
Mode	Channel	Frequency	Output power	Limit
		MHz	dBm	dBm
BDR (GFSK)	Low	2402	1.50	30
	Middle	2441	1.77	30
	High	2480	2.71	30
EDR ($\pi/4$ -DQPSK)	Low	2402	0.86	30
	Middle	2441	1.33	30
	High	2480	2.41	30
EDR (8DPSK)	Low	2402	0.89	30
	Middle	2441	1.35	30
	High	2480	2.32	30

Note: The data above was tested in conducted mode.

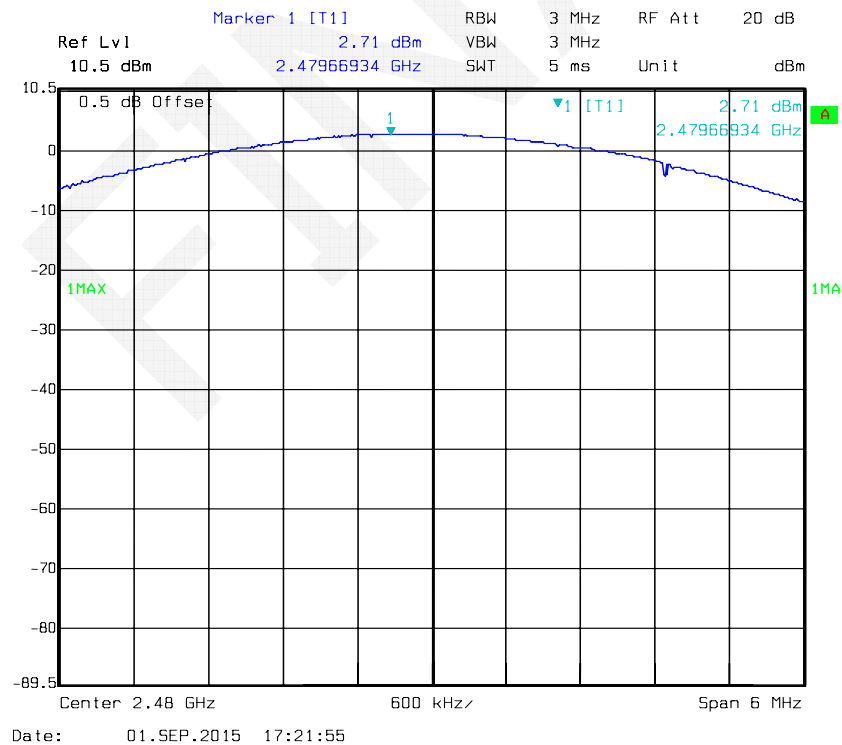
BDR Mode (GFSK):



Output Power, Middle Channel

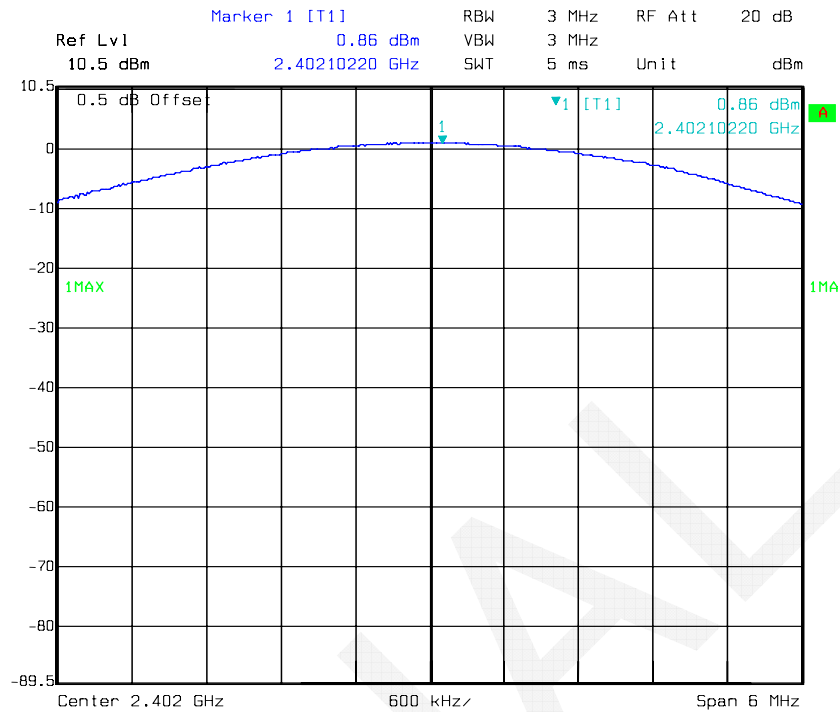


Output Power, High Channel



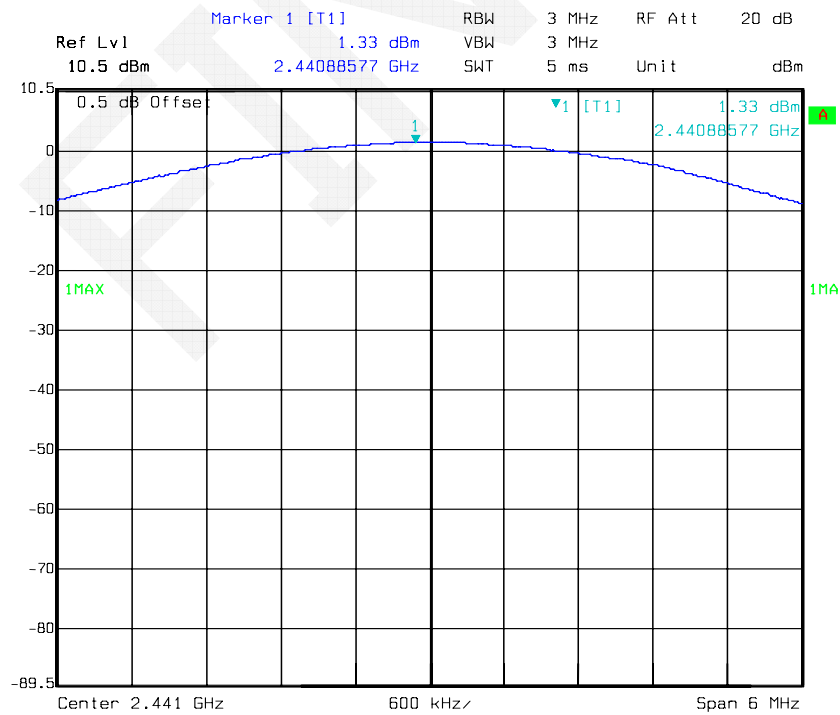
EDR Mode ($\pi/4$ -DQPSK):

Output Power, Low Channel



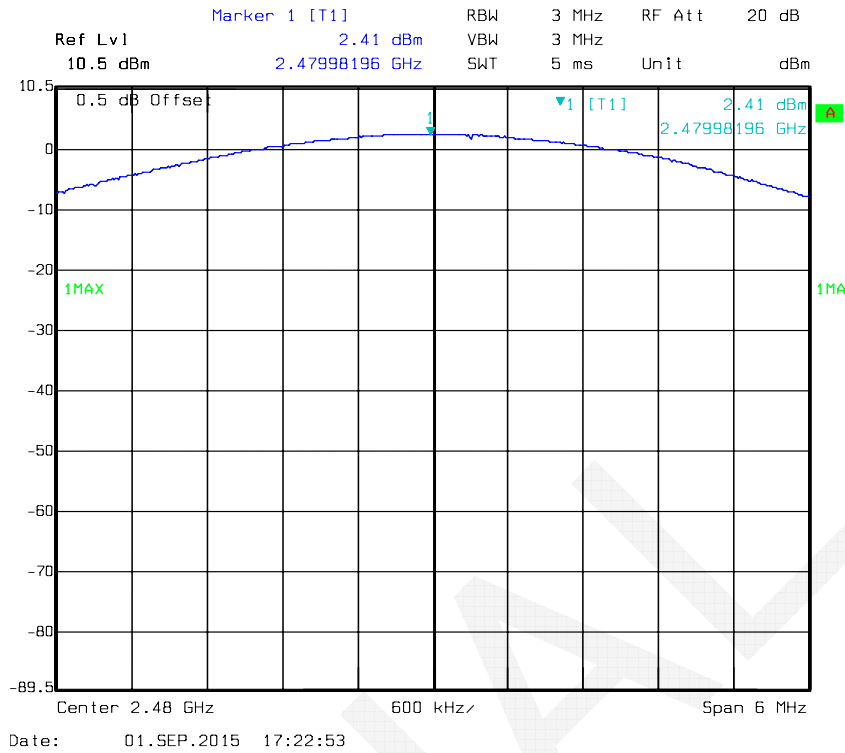
Date: 01.SEP.2015 17:24:42

Output Power, Middle Channel



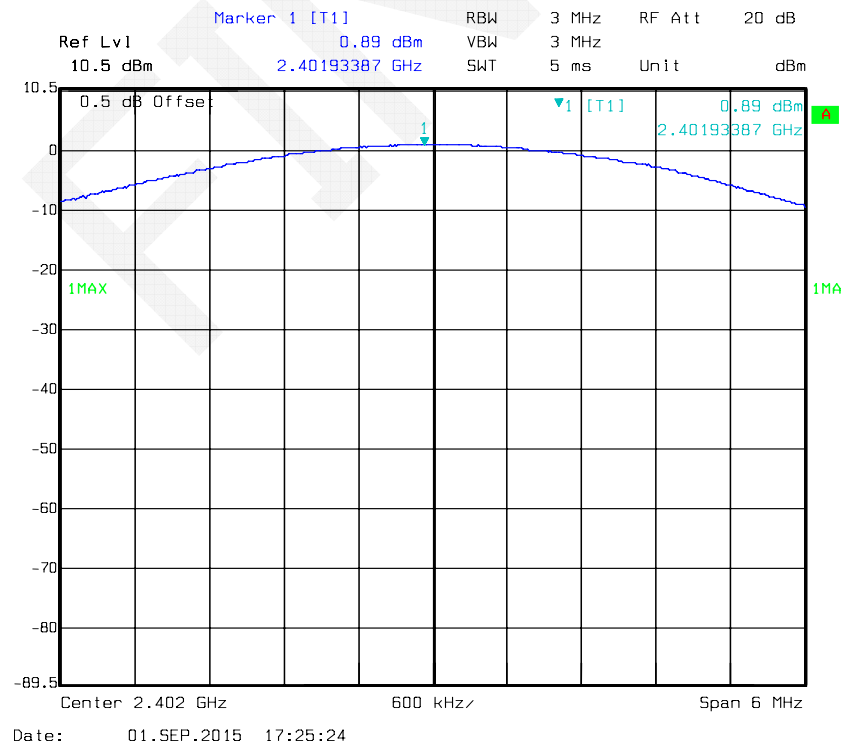
Date: 01.SEP.2015 17:24:06

Output Power, High Channel

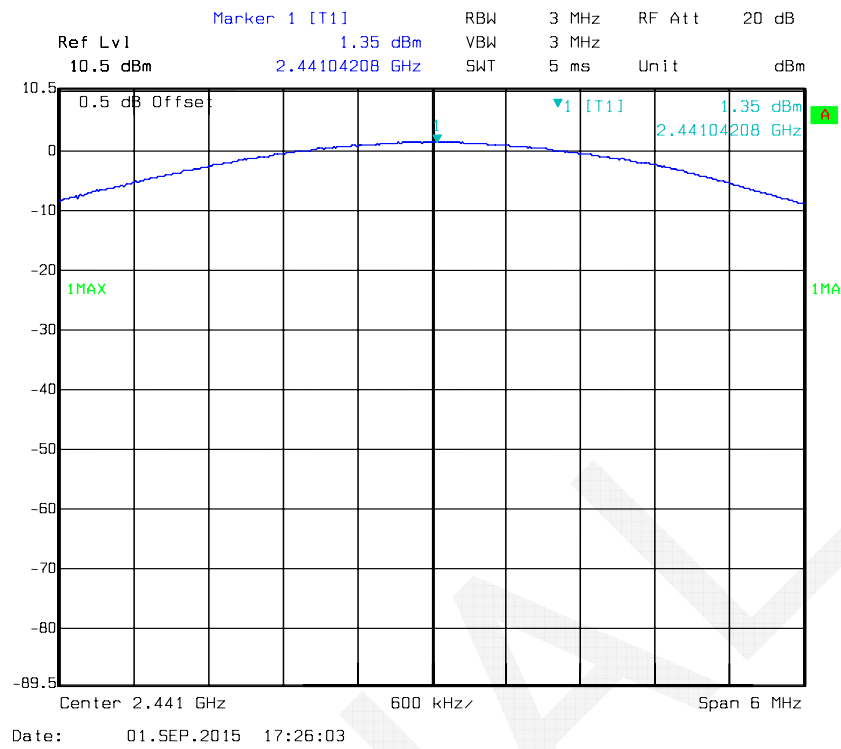


EDR Mode (8-DPSK):

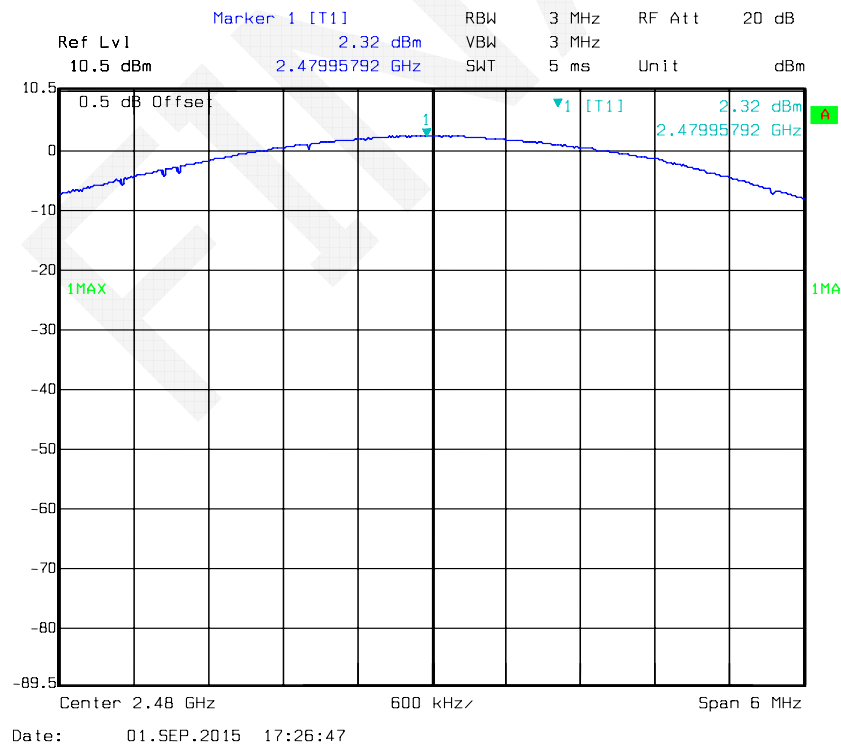
Output Power, Low Channel



Output Power, Middle Channel



Output Power, High Channel



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)).

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

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09

* **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:	27.2°C
Relative Humidity:	54 %
ATM Pressure:	100.2 kPa

* The testing was performed by Allen Qiao on 2015-09-01.

BDR Mode (GFSK):

[illegible]

Ref Lvl 10.5 dBm

Marker 4 [T1] -41.04 dBm 2.39991182 GHz

RBW 100 kHz RF Att 20 dB

VBW 300 kHz

SWT 6 ms Unit dBm

0.5 dB Offset

D1 -19.95 dBm 1MAX

Marker 4 [T1] -41.04 dBm 2.39991182 GHz

Marker 1 [T1] -40.65 dBm 2.40188377 GHz

Marker 2 [T1] -40.64 dBm 2.40000000 GHz

Marker 3 [T1] -55.12 dBm 2.39991182 GHz

Start 2.38 GHz 2.4 MHz/ Stop 2.404 GHz

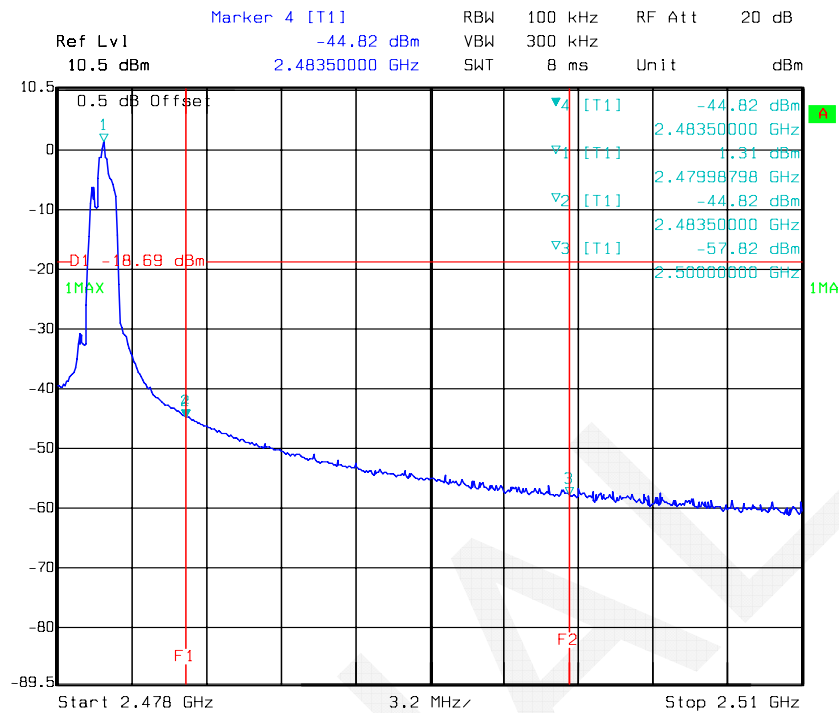
Date: 01.SEP.2015 17:59:44

Band Edge, Left Side

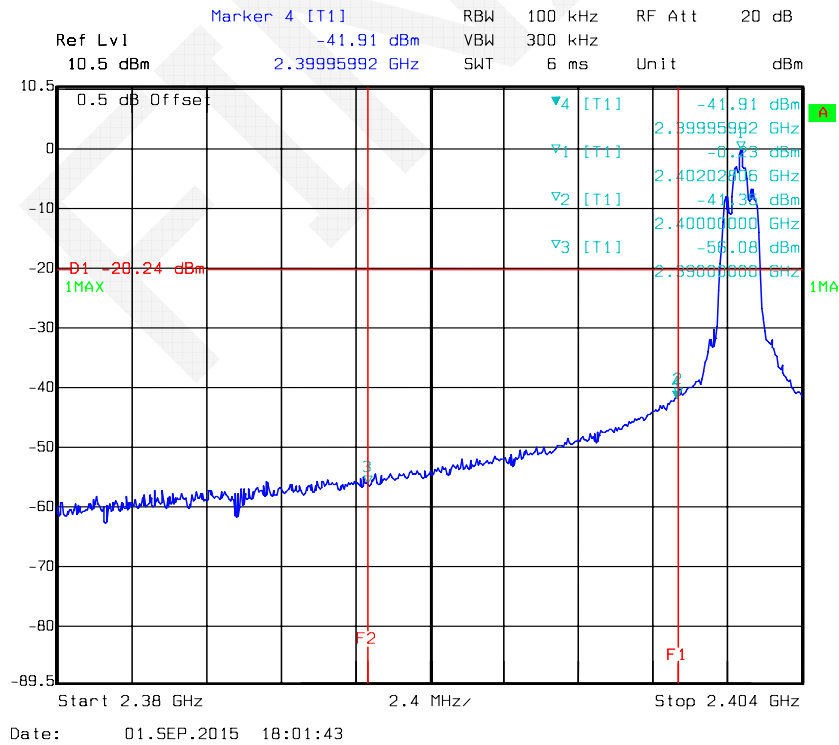


EDR Mode (8-DPSK):

Band Edge, Left Side



Band Edge, Right Side



DECLARATION LETTER**Declaration of Alteration**

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.)

Products Description	Name	Primo Plus		
	Brand	POSH		
	Manufacturer	Shenzhen Posh Mobile Limited		
	Project No.	RDG150828004, RDG150828004-20		
Differences Description				
Testing Products	Multiple Models		Differences Items	Details
C353A	C353B		Model name	They are same motherboard, and just have the different model name.

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

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: K.N. Chong

Title: Manager

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