



## FCC PART 15.247

### TEST REPORT

For

**SWAGTEK**

10205 NW 19th Street STE101, Miami, Florida, United States

**FCC ID: O55183217**

<b>Report Type:</b> Original Report	<b>Product Name:</b> 1.77 inch Feature Bar Phone
<b>Report Number:</b> RDG170906010-00B	
<b>Report Date:</b>	2017-11-16
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**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).

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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

The **SWAGTEK**'s product, model number: **iSWAG FOX (FCC ID: O55183217)** (the "EUT") in this report was a **1.77 inch Feature Bar Phone**, which was measured approximately: 11.4 cm (L) x 4.7 cm (W) x 1.4 cm (H), DC3.7V from Battery or DC 5V from adapter.

*Adapter information:*

*Model: RL06-A*

*Input: AC 100-240V 50/60Hz,02A*

*Output: DC5.0V 500mA*

*Note: The series product, model i LOGIC Z1, UNONU U1 and iSWAG FOX are electrically identical, the difference between them is model name, we selected iSWAG FOX for 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: 170906010 (Assigned by BACL,Dongguan). The EUT was received on 2017-09-06.*

### Objective

This report is prepared on behalf of **SWAGTEK** in accordance with Part 2, Subpart J, Part 15, Subparts A 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 Rules 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: O55183217.

FCC Part 22H, 24E PCE submissions with FCC ID: O55183217.

### Test Methodology

All measurements detailed in this Test Report were performed in accordance 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).

## Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical 1G~6GHz: 4.45 dB, 6G~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

## 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 Industry Area, Tangxia, Dongguan, Guangdong, China

Bay Area Compliance Laboratories Corp. (Dongguan) has been accredited to ISO 17025 by CNAS(Lab code: L5662). And accredited to ISO 17025 by NVLAP(Test Laboratory Accreditation Certificate Number 500069-0), the FCC Designation No. CN5002 under the KDB 974614 D01.

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.

Bay Area Compliance Laboratories Corp. (Dongguan) was registered with ISED Canada under ISED Canada Registration Number 3062D.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in engineering mode.

### EUT Exercise Software

The system configured the maximum power level as default setting.

### Equipment Modifications

No modification was made to the EUT.

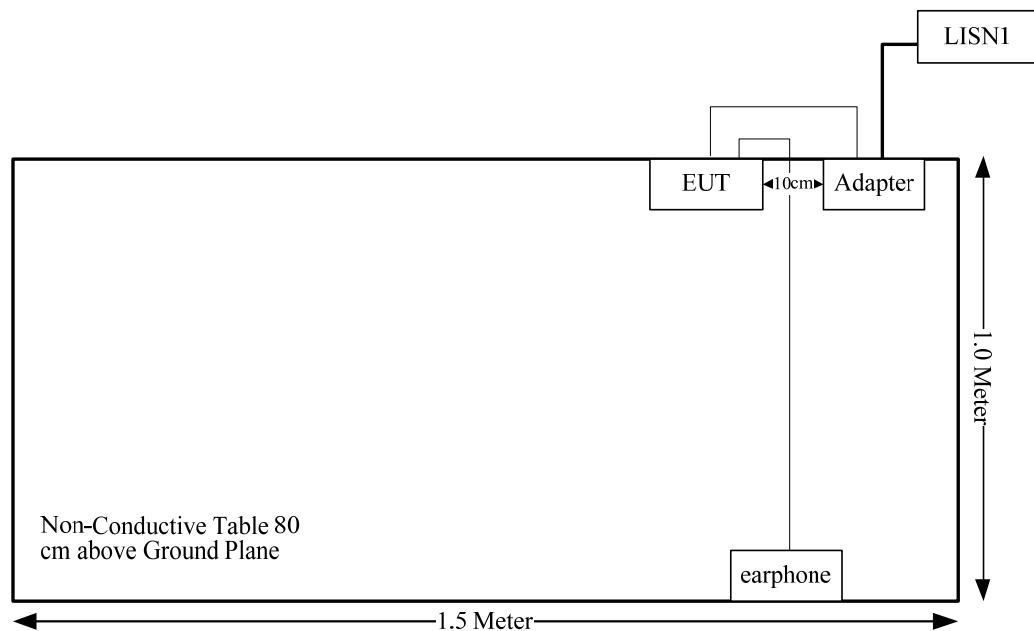
### Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Huawei	AC/DC Adapter	HW-050200C01	P78518G9V49032

### Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	yes	No	1.2	EUT	Adapter

### Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§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 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:

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

- $f(\text{GHz})$  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  $\leq 50$  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 conducted power including tune-up tolerance is 3.0 dBm (2.0 mW).

$$[(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f(\text{GHz})}] = 2.0 / 5 * (\sqrt{2.480}) = 0.6 < 3.0$$

**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 internal antenna arrangement for BT, and the antenna gain is 1.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

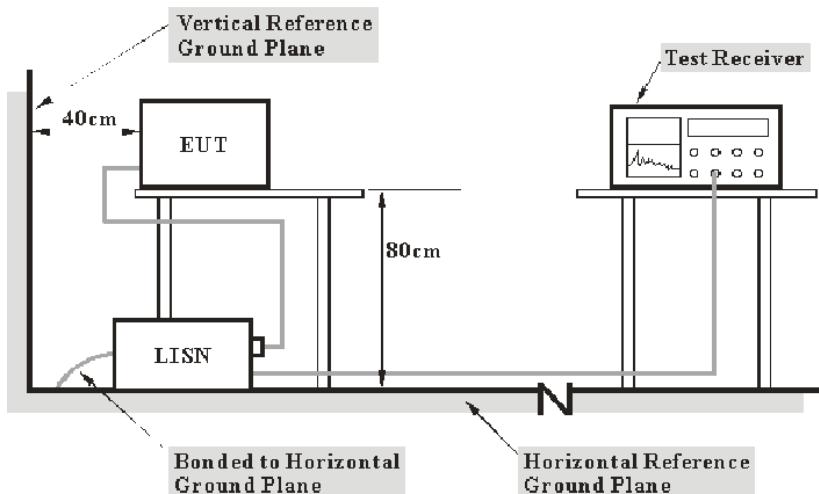
**Result:** Compliance.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207(a)

### 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 C63.10-2013 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 the main LISN with a 120 V/60 Hz AC 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 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	2016-12-08	2017-12-08
R&S	L.I.S.N	ESH2-Z5	892107/021	2017-09-01	2018-09-01
R&S	Two-line V-network	ENV 216	3560.6550.12	2016-12-08	2017-12-08
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
Unknown	Coaxial Cable	2m	Con-1	2017-09-05	2018-09-05

\* **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

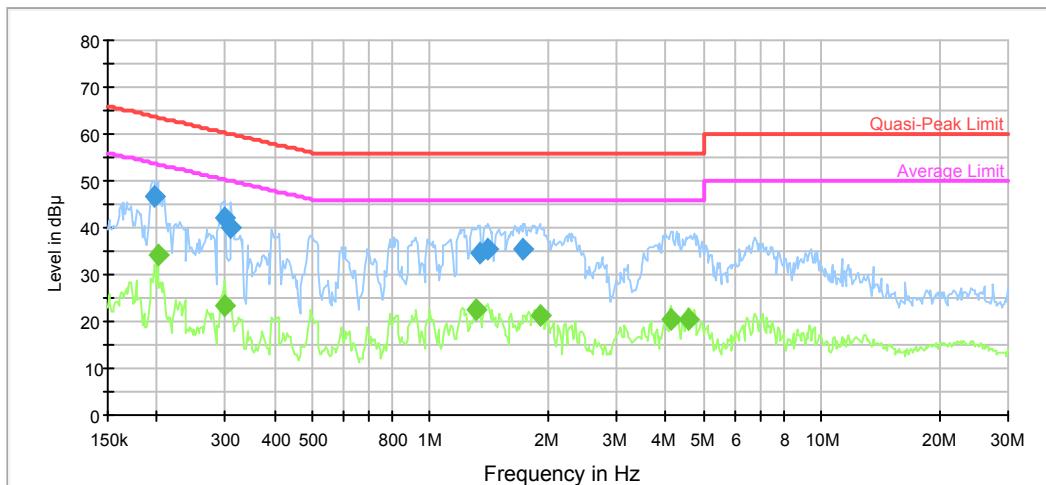
### Environmental Conditions

Temperature:	27.1 °C
Relative Humidity:	40 %
ATM Pressure:	100.2 kPa

*The testing was performed by Gaochao Gong on 2017-09-07.*

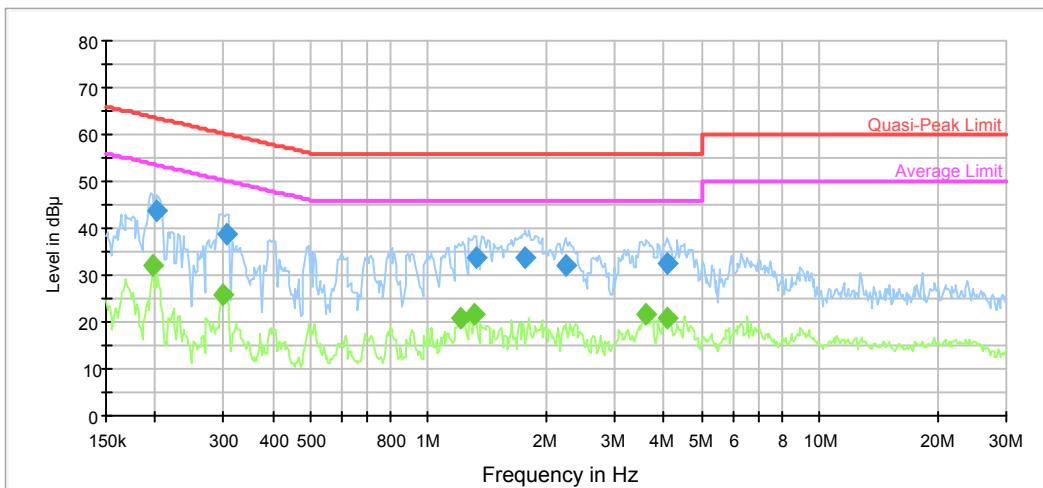
**Test Mode:** Transmitting

**AC120V, 60 Hz, Line:**



Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.198249	46.7	9.000	L1	10.6	17.0	63.7	Compliance
0.300025	42.0	9.000	L1	10.1	18.2	60.2	Compliance
0.309742	40.1	9.000	L1	10.1	19.9	60.0	Compliance
1.341955	34.7	9.000	L1	9.7	21.3	56.0	Compliance
1.407671	35.5	9.000	L1	9.7	20.5	56.0	Compliance
1.731709	35.5	9.000	L1	9.7	20.5	56.0	Compliance

Frequency (MHz)	Average (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.201433	34.1	9.000	L1	10.6	19.5	53.6	Compliance
0.300025	23.2	9.000	L1	10.1	27.0	50.2	Compliance
1.310256	22.5	9.000	L1	9.8	23.5	46.0	Compliance
1.920710	21.1	9.000	L1	9.7	24.9	46.0	Compliance
4.127365	20.6	9.000	L1	9.8	25.4	46.0	Compliance
4.577832	20.3	9.000	L1	9.8	25.7	46.0	Compliance

**AC120V, 60 Hz, Neutral:**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.203045	43.6	9.000	N	10.6	19.9	63.5	Compliance
0.304845	38.9	9.000	N	10.1	21.2	60.1	Compliance
1.320738	33.6	9.000	N	9.7	22.4	56.0	Compliance
1.773603	33.6	9.000	N	9.7	22.4	56.0	Compliance
2.234662	31.9	9.000	N	9.8	24.1	56.0	Compliance
4.062112	32.4	9.000	N	9.8	23.6	56.0	Compliance

Frequency (MHz)	Average (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.198249	31.9	9.000	N	10.6	21.8	53.7	Compliance
0.300025	25.8	9.000	N	10.1	24.4	50.2	Compliance
1.209904	20.8	9.000	N	9.8	25.2	46.0	Compliance
1.310256	21.7	9.000	N	9.8	24.3	46.0	Compliance
3.575883	21.7	9.000	N	9.8	24.3	46.0	Compliance
4.062112	20.7	9.000	N	9.8	25.3	46.0	Compliance

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

### Applicable Standard

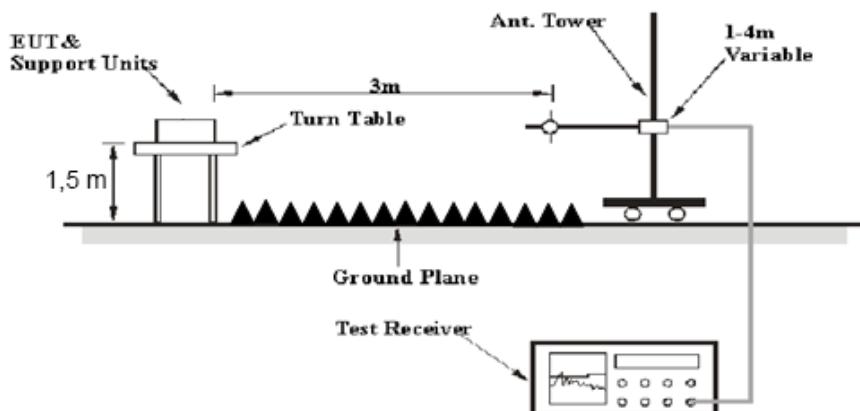
FCC §15.247 (d); §15.209; §15.205;

### EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission Below 1GHz tests were performed in the 3 meters chamber test site, above 1GHz tests were performed in the 3 meters chamber 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	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	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.

## Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2017-09-01	2018-09-01
Sunol Sciences	Antenna	JB3	A060611-1	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2017-09-01	2018-09-01
R&S	Spectrum Analyzer	E4440A	SG43360054	2016-12-08	2017-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-06-16	2020-06-15
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2017-09-05	2018-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2017-06-27	2018-06-27
Unknown	Coaxial Cable	Chamber A-1	4m	2017-09-05	2018-09-05
Unknown	Coaxial Cable	Chamber B-1	0.75m	2017-09-05	2018-09-05
Unknown	Coaxial Cable	Chamber A-2	10m	2017-09-05	2018-09-05
Unknown	Coaxial Cable	Chamber B-2	8m	2017-09-05	2018-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	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).

## 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 Data

### Environmental Conditions

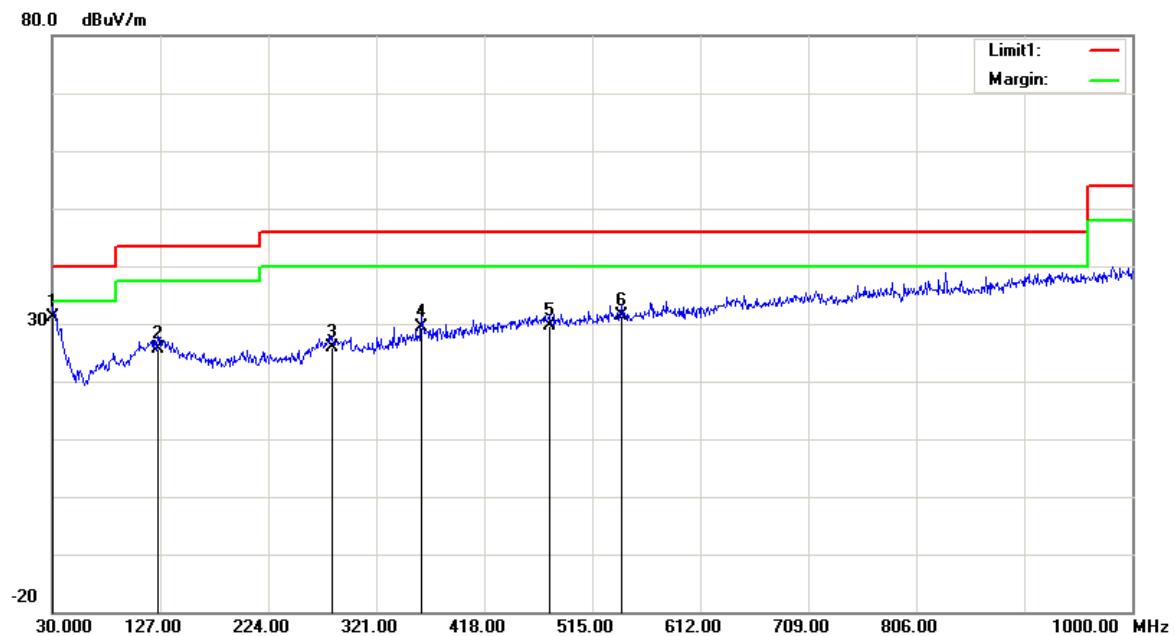
<b>Temperature:</b>	27.6 °C
<b>Relative Humidity:</b>	53 %
<b>ATM Pressure:</b>	100.4 kPa

\* The testing was performed by Steven Zuo on 2017-09-11.

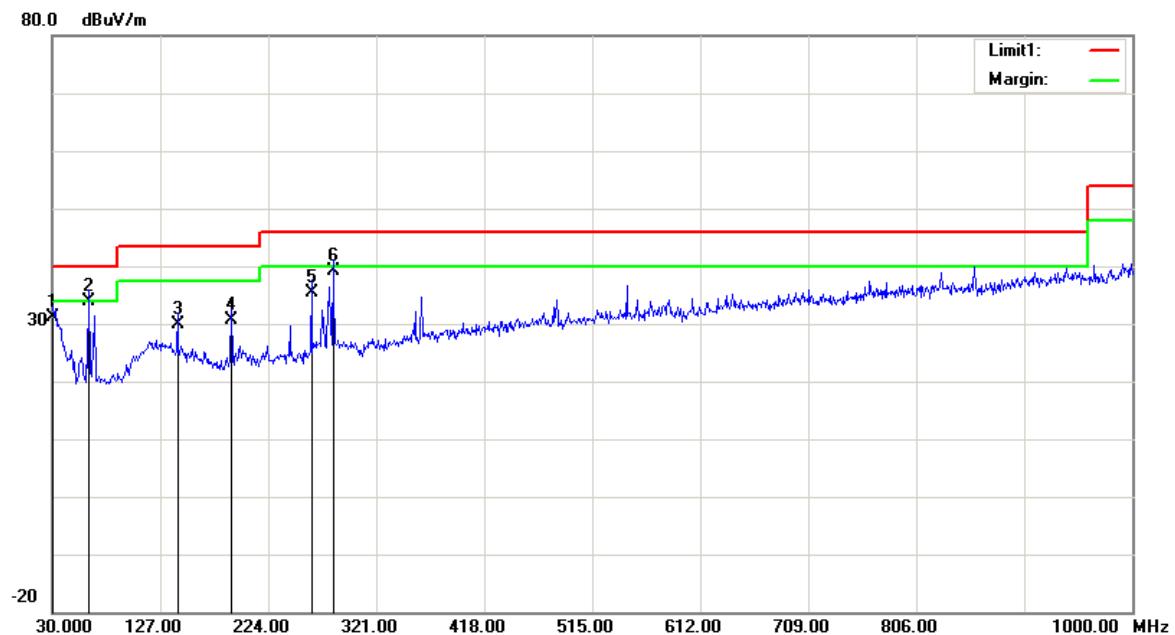
Test Mode: Transmitting

**1) 30MHz-1GHz(8DPSK High channel was the worst)**

**Horizontal:**



Frequency (MHz)	Receiver Reading (dB $\mu$ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
30.000	30.12	QP	1.08	31.20	40.00	8.80
125.0600	30.53	QP	-4.83	25.70	43.50	17.80
281.2300	29.53	QP	-3.63	25.90	46.00	20.10
361.7400	32.20	QP	-2.90	29.30	46.00	16.70
476.2000	30.66	QP	-0.96	29.70	46.00	16.30
541.1900	31.65	QP	-0.35	31.30	46.00	14.70

**Vertical:**

Frequency (MHz)	Receiver Reading (dB $\mu$ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
30.9700	30.75	QP	0.35	31.10	40.00	8.90
62.9800	45.92	QP	-12.12	33.80	40.00	6.20
142.5200	36.14	QP	-6.34	29.80	43.50	13.70
191.0200	38.30	QP	-7.60	30.70	43.50	12.80
262.8000	40.19	QP	-4.69	35.50	46.00	10.50
282.2000	42.76	QP	-3.66	39.10	46.00	6.90

**1GHz-25GHz:***BDR Mode (GFSK):*

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	69.35	PK	H	28.10	3.11	0.00	100.56	N/A	N/A
2402	59.62	AV	H	28.10	3.11	0.00	90.83	N/A	N/A
2402	58.41	PK	V	28.10	3.11	0.00	89.62	N/A	N/A
2402	48.35	AV	V	28.10	3.11	0.00	79.56	N/A	N/A
2390	25.43	PK	H	28.08	3.10	0.00	56.61	74.00	17.39
2390	13.36	AV	H	28.08	3.10	0.00	44.54	54.00	9.46
4804	48.13	PK	H	32.91	4.30	35.48	49.86	74.00	24.14
4804	32.87	AV	H	32.91	4.30	35.48	34.60	54.00	19.40
7206	46.69	PK	H	35.74	5.45	35.97	51.91	74.00	22.09
7206	32.54	AV	H	35.74	5.45	35.97	37.76	54.00	16.24
5977	45.83	PK	H	34.29	4.66	35.85	48.93	74.00	25.07
5977	31.59	AV	H	34.29	4.66	35.85	34.69	54.00	19.31
Middle Channel: 2441 MHz									
2441	69.42	PK	H	28.18	3.11	0.00	100.71	N/A	N/A
2441	59.68	AV	H	28.18	3.11	0.00	90.97	N/A	N/A
2441	58.44	PK	V	28.18	3.11	0.00	89.73	N/A	N/A
2441	48.57	AV	V	28.18	3.11	0.00	79.86	N/A	N/A
4882	48.06	PK	H	33.06	4.40	35.54	49.98	74.00	24.02
4882	32.72	AV	H	33.06	4.40	35.54	34.64	54.00	19.36
7323	46.98	PK	H	36.04	5.53	35.98	52.57	74.00	21.43
7323	32.85	AV	H	36.04	5.53	35.98	38.44	54.00	15.56
5966	46.37	PK	H	34.29	4.65	35.85	49.46	74.00	24.54
5966	32.51	AV	H	34.29	4.65	35.85	35.60	54.00	18.40
6115	45.76	PK	H	34.28	4.81	35.82	49.03	74.00	24.97
6115	31.43	AV	H	34.28	4.81	35.82	34.70	54.00	19.30
High Channel: 2480 MHz									
2480	69.46	PK	H	28.26	3.10	0.00	100.82	N/A	N/A
2480	59.77	AV	H	28.26	3.10	0.00	91.13	N/A	N/A
2480	57.52	PK	V	28.26	3.10	0.00	88.88	N/A	N/A
2480	47.64	AV	V	28.26	3.10	0.00	79.00	N/A	N/A
2483.5	38.89	PK	H	28.27	3.10	0.00	70.26	74.00	3.74
2483.5	14.37	AV	H	28.27	3.10	0.00	45.74	54.00	8.26
4960	48.21	PK	H	33.22	4.42	35.60	50.25	74.00	23.75
4960	32.86	AV	H	33.22	4.42	35.60	34.90	54.00	19.10
7440	47.35	PK	H	36.34	5.60	35.99	53.30	74.00	20.70
7440	32.19	AV	H	36.34	5.60	35.99	38.14	54.00	15.86
6135	45.28	PK	H	34.27	4.83	35.82	48.56	74.00	25.44
6135	31.31	AV	H	34.27	4.83	35.82	34.59	54.00	19.41

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

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	69.75	PK	H	28.10	3.11	0.00	100.96	N/A	N/A
2402	59.88	AV	H	28.10	3.11	0.00	91.09	N/A	N/A
2402	58.32	PK	V	28.10	3.11	0.00	89.53	N/A	N/A
2402	48.46	AV	V	28.10	3.11	0.00	79.67	N/A	N/A
2390	26.51	PK	H	28.08	3.10	0.00	57.69	74.00	16.31
2390	13.27	AV	H	28.08	3.10	0.00	44.45	54.00	9.55
4804	48.49	PK	H	32.91	4.30	35.48	50.22	74.00	23.78
4804	33.34	AV	H	32.91	4.30	35.48	35.07	54.00	18.93
7206	47.72	PK	H	35.74	5.45	35.97	52.94	74.00	21.06
7206	32.53	AV	H	35.74	5.45	35.97	37.75	54.00	16.25
6155	45.98	PK	H	34.27	4.86	35.82	49.29	74.00	24.71
6155	31.65	AV	H	34.27	4.86	35.82	34.96	54.00	19.04
Middle Channel: 2441 MHz									
2441	69.52	PK	H	28.18	3.11	0.00	100.81	N/A	N/A
2441	59.73	AV	H	28.18	3.11	0.00	91.02	N/A	N/A
2441	58.25	PK	V	28.18	3.11	0.00	89.54	N/A	N/A
2441	48.39	AV	V	28.18	3.11	0.00	79.68	N/A	N/A
4882	48.75	PK	H	33.06	4.40	35.54	50.67	74.00	23.33
4882	32.91	AV	H	33.06	4.40	35.54	34.83	54.00	19.17
7323	47.88	PK	H	36.04	5.53	35.98	53.47	74.00	20.53
7323	32.58	AV	H	36.04	5.53	35.98	38.17	54.00	15.83
5988	46.51	PK	H	34.30	4.66	35.85	49.62	74.00	24.38
5988	32.29	AV	H	34.30	4.66	35.85	35.40	54.00	18.60
6235	45.92	PK	H	34.25	4.95	35.80	49.32	74.00	24.68
6235	31.84	AV	H	34.25	4.95	35.80	35.24	54.00	18.76
High Channel: 2480 MHz									
2480	69.48	PK	H	28.26	3.10	0.00	100.84	N/A	N/A
2480	59.34	AV	H	28.26	3.10	0.00	90.70	N/A	N/A
2480	57.99	PK	V	28.26	3.10	0.00	89.35	N/A	N/A
2480	48.13	AV	V	28.26	3.10	0.00	79.49	N/A	N/A
2483.5	38.84	PK	H	28.27	3.10	0.00	70.21	74.00	3.79
2483.5	14.43	AV	H	28.27	3.10	0.00	45.80	54.00	8.20
4960	48.45	PK	H	33.22	4.42	35.60	50.49	74.00	23.51
4960	33.52	AV	H	33.22	4.42	35.60	35.56	54.00	18.44
7440	47.44	PK	H	36.34	5.60	35.99	53.39	74.00	20.61
7440	32.73	AV	H	36.34	5.60	35.99	38.68	54.00	15.32
6122	45.79	PK	H	34.28	4.82	35.82	49.07	74.00	24.93
6122	32.31	AV	H	34.28	4.82	35.82	35.59	54.00	18.41

*EDR Mode (8-DPSK):*

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	69.66	PK	H	28.10	3.11	0.00	100.87	N/A	N/A
2402	59.78	AV	H	28.10	3.11	0.00	90.99	N/A	N/A
2402	58.37	PK	V	28.10	3.11	0.00	89.58	N/A	N/A
2402	48.45	AV	V	28.10	3.11	0.00	79.66	N/A	N/A
2390	26.56	PK	H	28.08	3.10	0.00	57.74	74.00	16.26
2390	13.44	AV	H	28.08	3.10	0.00	44.62	54.00	9.38
4804	48.33	PK	H	32.91	4.30	35.48	50.06	74.00	23.94
4804	33.18	AV	H	32.91	4.30	35.48	34.91	54.00	19.09
7206	47.56	PK	H	35.74	5.45	35.97	52.78	74.00	21.22
7206	32.37	AV	H	35.74	5.45	35.97	37.59	54.00	16.41
5966	45.82	PK	H	34.29	4.65	35.85	48.91	74.00	25.09
5966	31.49	AV	H	34.29	4.65	35.85	34.58	54.00	19.42
Middle Channel: 2441 MHz									
2441	69.54	PK	H	28.18	3.11	0.00	100.83	N/A	N/A
2441	59.68	AV	H	28.18	3.11	0.00	90.97	N/A	N/A
2441	58.45	PK	V	28.18	3.11	0.00	89.74	N/A	N/A
2441	48.63	AV	V	28.18	3.11	0.00	79.92	N/A	N/A
4882	48.59	PK	H	33.06	4.40	35.54	50.51	74.00	23.49
4882	32.75	AV	H	33.06	4.40	35.54	34.67	54.00	19.33
7323	47.72	PK	H	36.04	5.53	35.98	53.31	74.00	20.69
7323	32.64	AV	H	36.04	5.53	35.98	38.23	54.00	15.77
5965	46.35	PK	H	34.29	4.65	35.85	49.44	74.00	24.56
5965	32.13	AV	H	34.29	4.65	35.85	35.22	54.00	18.78
6233	45.76	PK	H	34.25	4.95	35.80	49.16	74.00	24.84
6233	31.68	AV	H	34.25	4.95	35.80	35.08	54.00	18.92
High Channel: 2480 MHz									
2480	70.35	PK	H	28.26	3.10	0.00	101.71	N/A	N/A
2480	59.64	AV	H	28.26	3.10	0.00	91.00	N/A	N/A
2480	58.59	PK	V	28.26	3.10	0.00	89.95	N/A	N/A
2480	48.65	AV	V	28.26	3.10	0.00	80.01	N/A	N/A
2483.5	38.68	PK	H	28.27	3.10	0.00	70.05	74.00	3.95
2483.5	14.53	AV	H	28.27	3.10	0.00	45.90	54.00	8.10
4960	48.29	PK	H	33.22	4.42	35.60	50.33	74.00	23.67
4960	33.36	AV	H	33.22	4.42	35.60	35.40	54.00	18.60
7440	47.28	PK	H	36.34	5.60	35.99	53.23	74.00	20.77
7440	32.57	AV	H	36.34	5.60	35.99	38.52	54.00	15.48
6144	45.63	PK	H	34.27	4.84	35.82	48.92	74.00	25.08
6144	32.15	AV	H	34.27	4.84	35.82	35.44	54.00	18.56

## 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	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-2	Each Time	/

\* **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

Temperature:	25.6~27.3 °C
Relative Humidity:	56~60 %
ATM Pressure:	100.1~100.2 kPa

\* The testing was performed by Swim Lv on 2017-09-06&2017-11-16..

**Test Result:** Compliance.

Please refer to following tables and plots

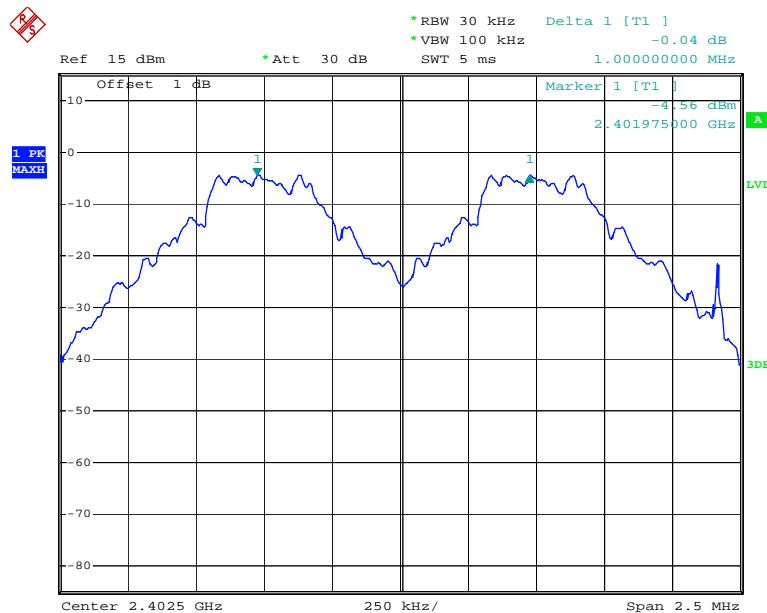
*Test Mode: Transmitting*

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
<i>BDR (GFSK)</i>	Low	2402	1.000	0.63
	Middle	2441	1.000	0.63
	High	2480	1.005	0.63
<i>EDR (<math>\pi/4</math>-DQPSK)</i>	Low	2402	1.005	0.90
	Middle	2441	1.005	0.90
	High	2480	1.010	0.90
<i>EDR (8DPSK)</i>	Low	2402	1.000	0.85
	Middle	2441	1.000	0.87
	High	2480	1.005	0.87

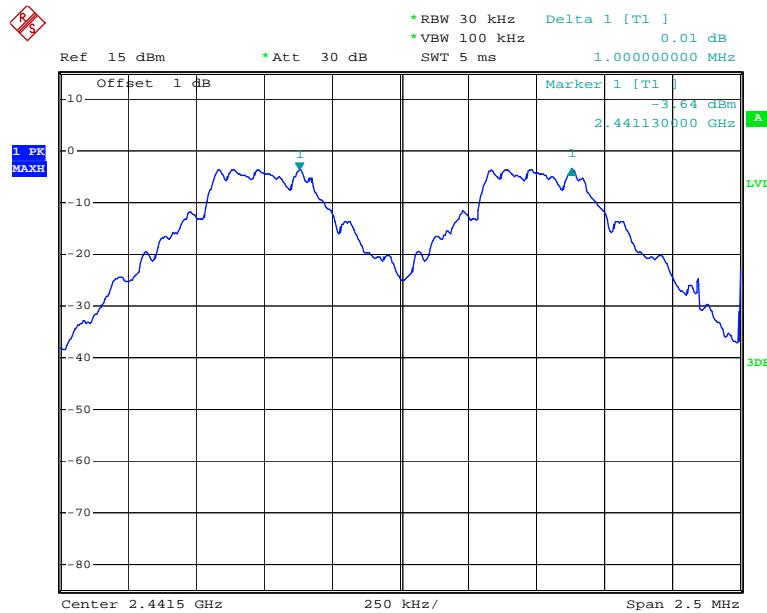
*Note: Limit =  $(2/3) \times 20\text{dB bandwidth}$*

*BDR Mode (GFSK):*

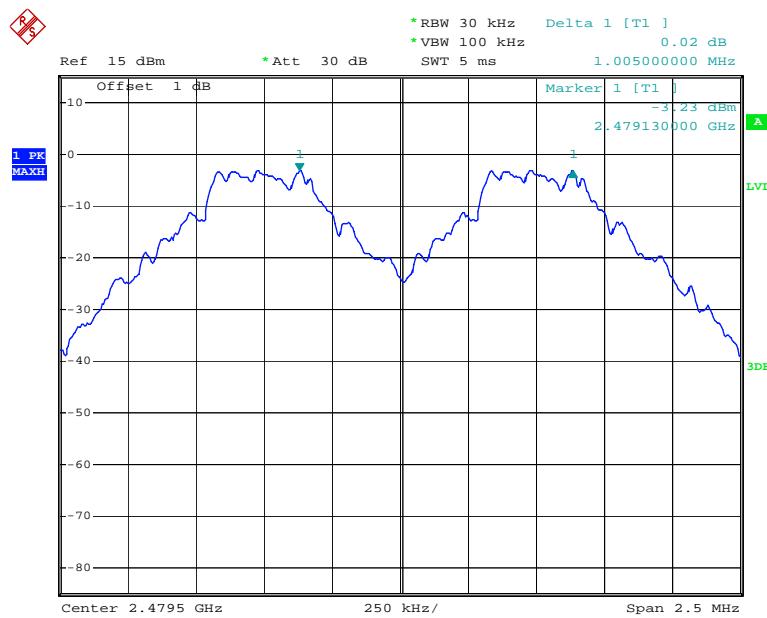
### Low Channel



Date: 6.SEP.2017 23:01:29

**Middle Channel**

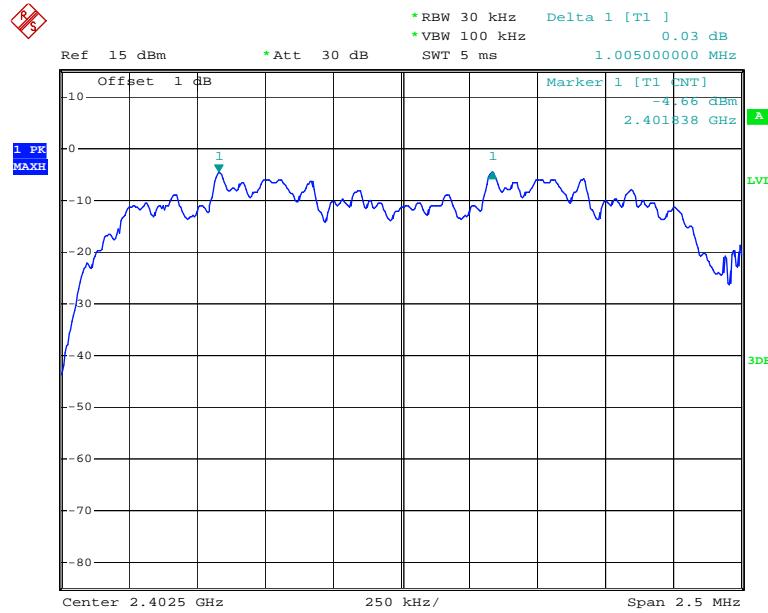
Date: 6.SEP.2017 23:03:47

**High Channel**

Date: 6.SEP.2017 23:05:37

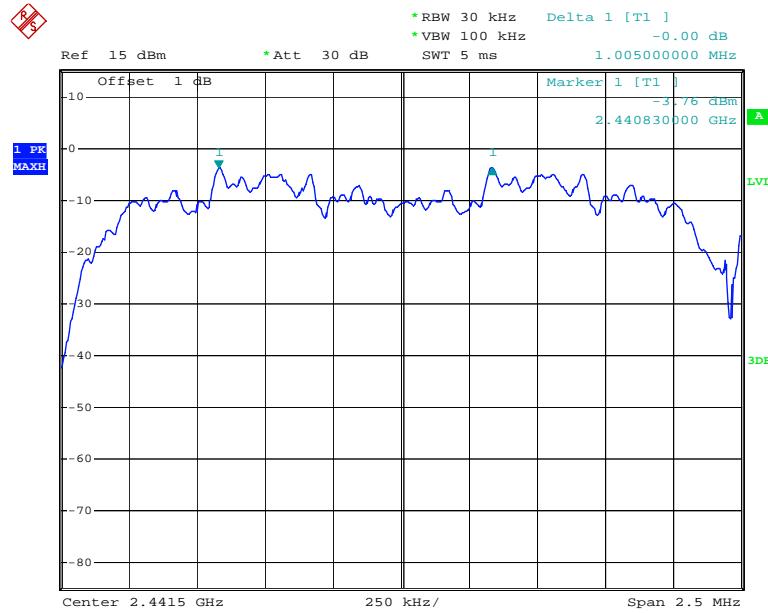
*EDR Mode ( $\pi/4$ -DQPSK):*

### Low Channel

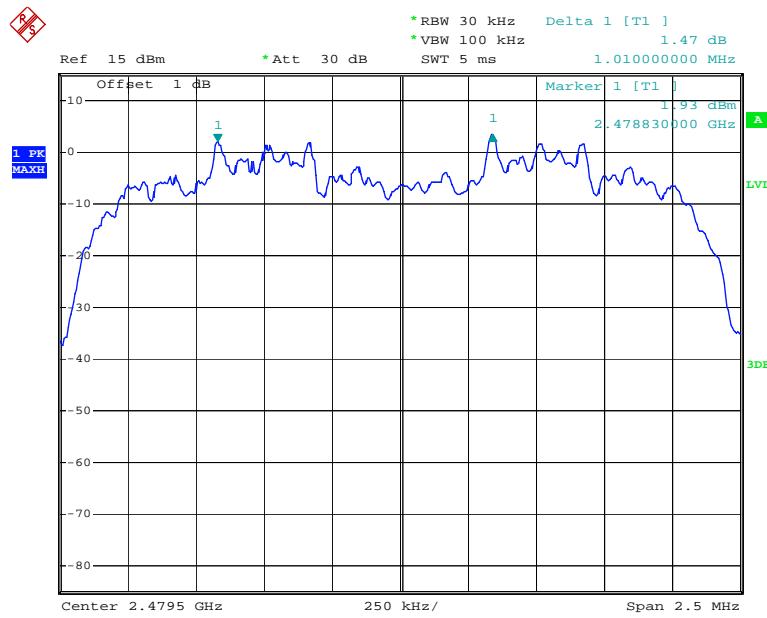


Date: 6.SEP.2017 23:11:37

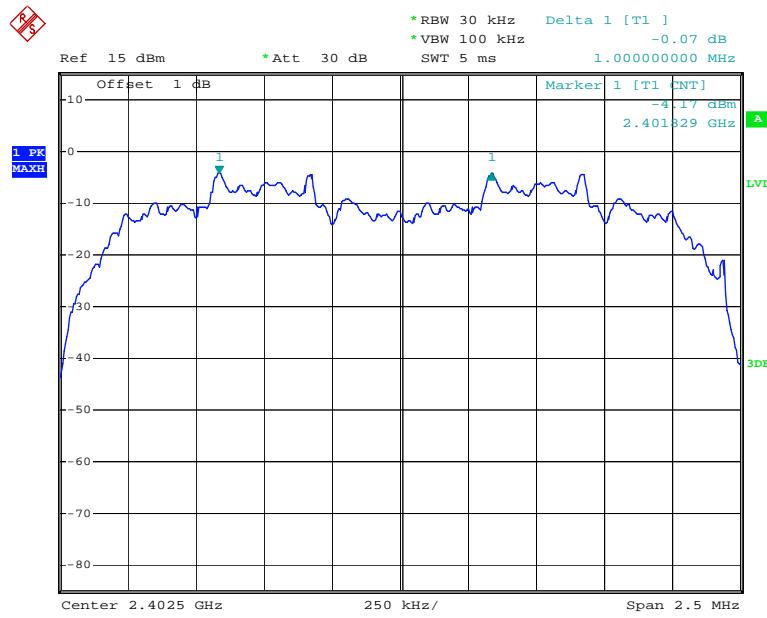
### Middle Channel



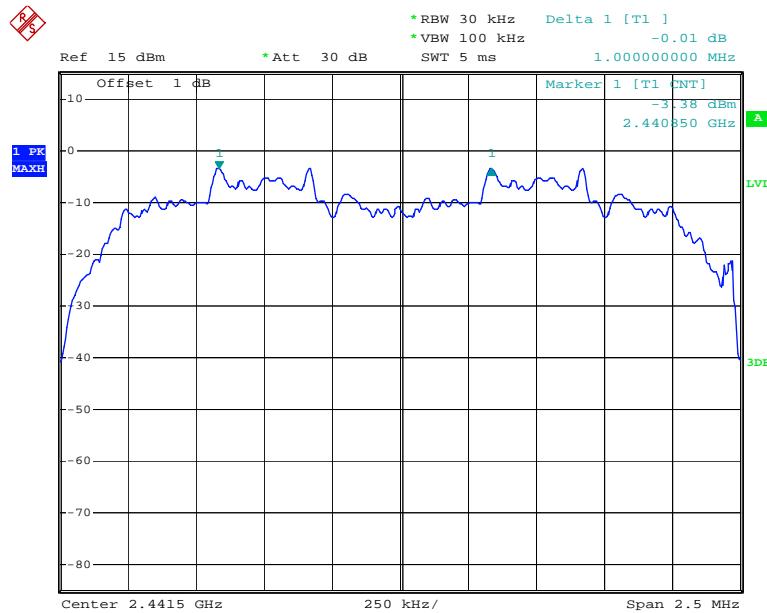
Date: 6.SEP.2017 23:09:27

**High Channel**

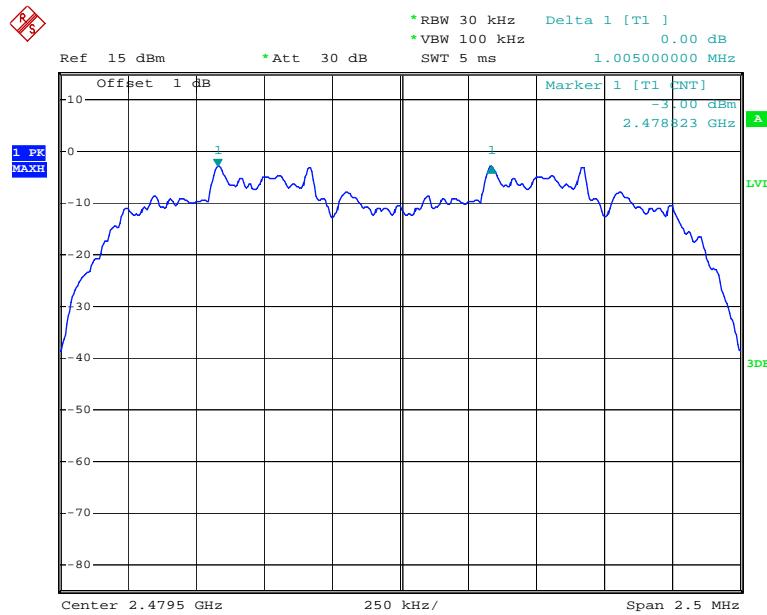
Date: 16.NOV.2017 15:53:11

*EDR Mode (8-DPSK):***Low Channel**

Date: 6.SEP.2017 23:15:08

**Middle Channel**

Date: 6.SEP.2017 23:17:28

**High Channel**

Date: 6.SEP.2017 23:26:32

## 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

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 Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-2	Each Time	/

\* **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:	27.3 °C
Relative Humidity:	60 %
ATM Pressure:	100.2 kPa

\* The testing was performed by Swim Lv on 2017-09-06.

**Test Result:** Compliance.

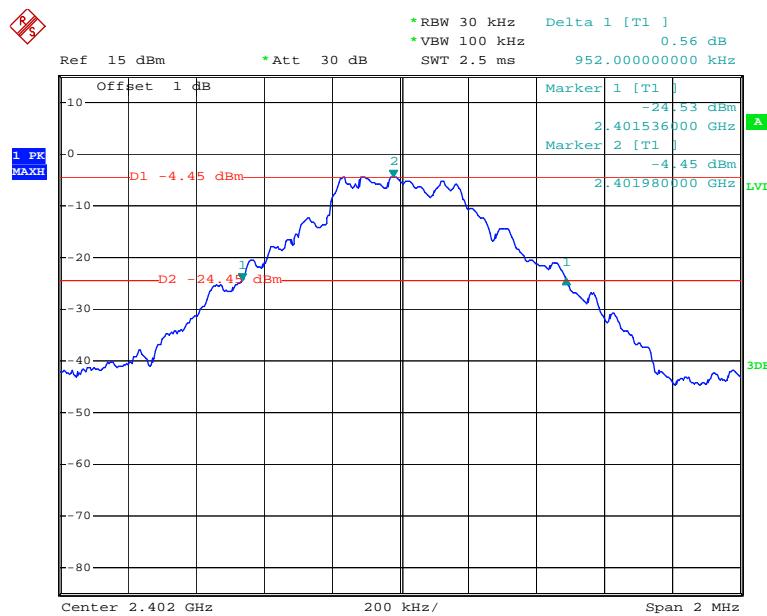
Please refer to following tables and plots

*Test Mode: Transmitting*

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.95
	Middle	2441	0.95
	High	2480	0.95
EDR Mode ( $\pi/4$ -DQPSK)	Low	2402	1.35
	Middle	2441	1.35
	High	2480	1.35
EDR Mode (8-DPSK)	Low	2402	1.28
	Middle	2441	1.30
	High	2480	1.30

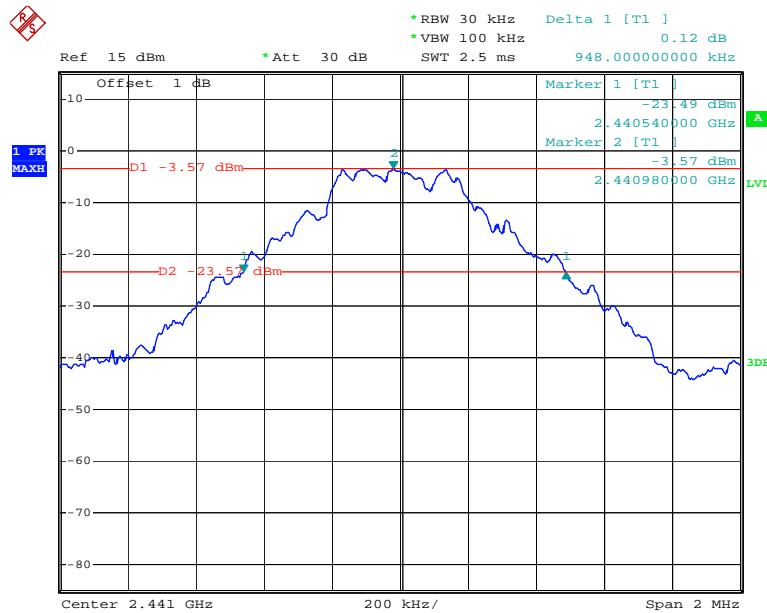
*BDR Mode (GFSK):*

### Low Channel



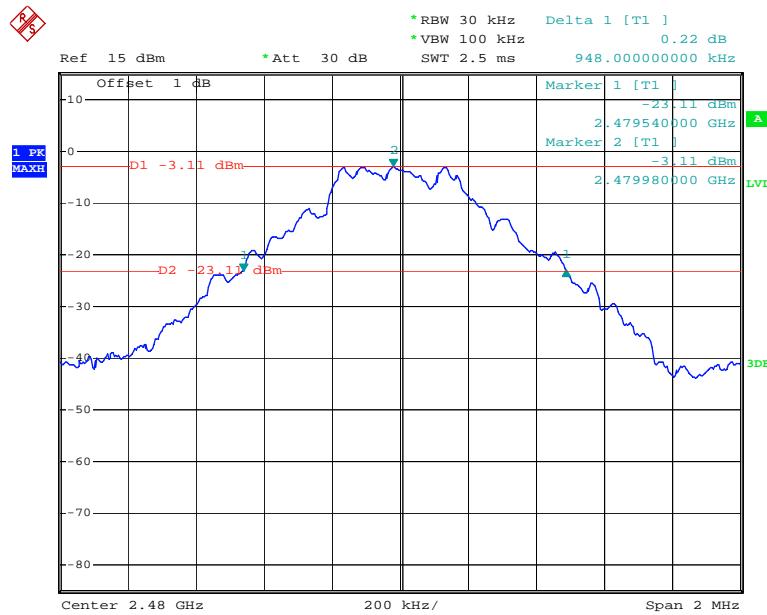
Date: 6.SEP.2017 22:28:03

### Middle Channel



Date: 6.SEP.2017 22:26:44

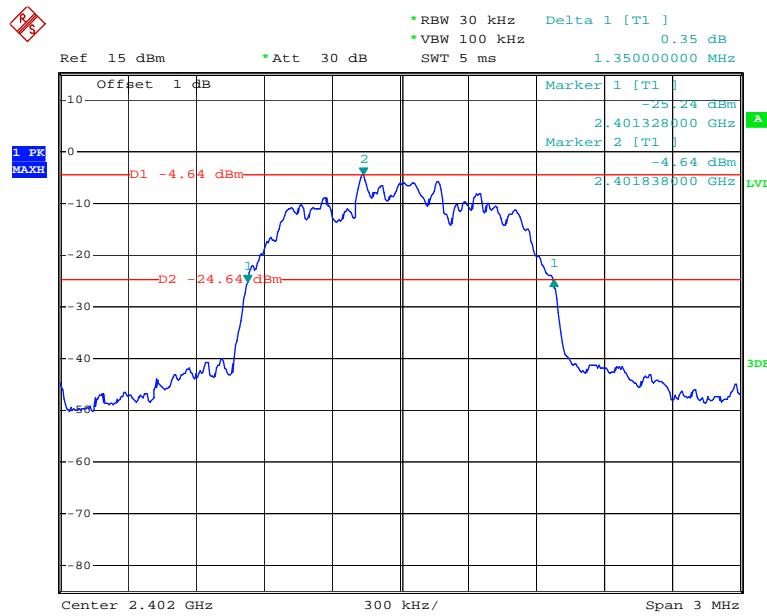
### High Channel



Date: 6.SEP.2017 22:24:23

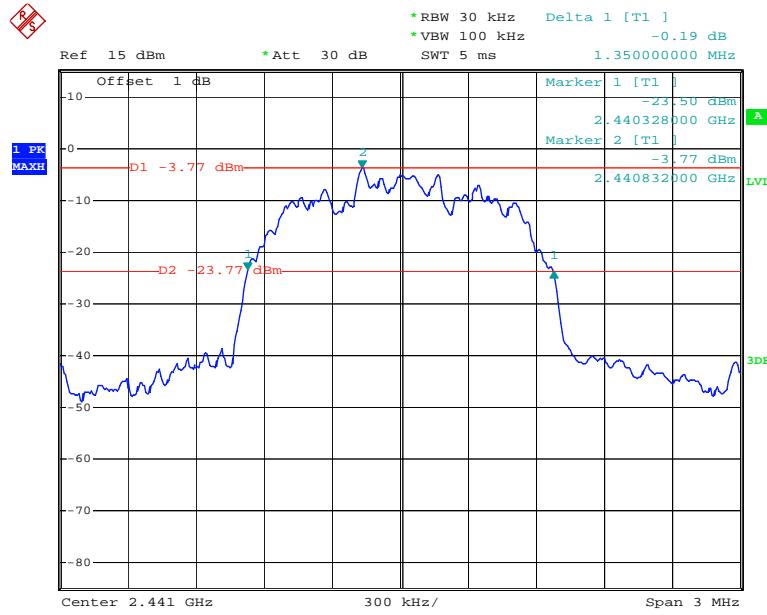
*EDR Mode ( $\pi/4$ -DQPSK):*

### Low Channel



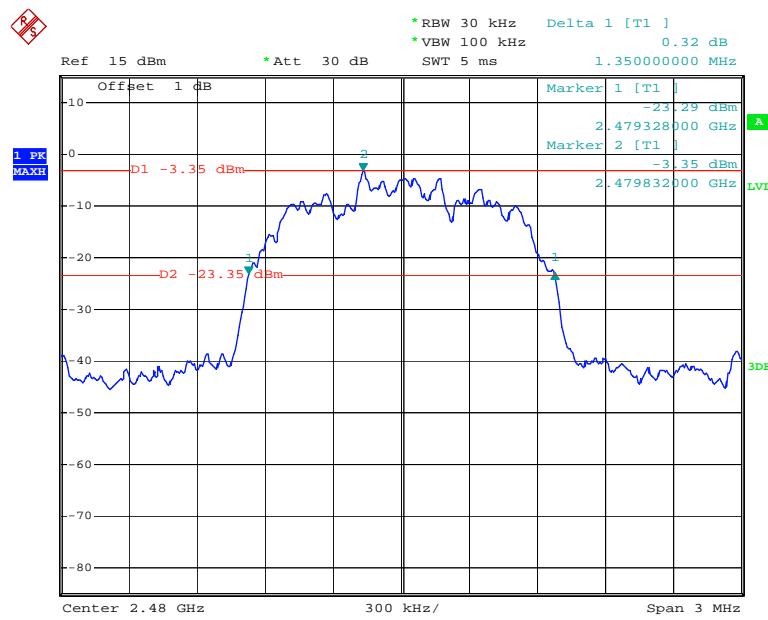
Date: 6.SEP.2017 22:18:44

### Middle Channel



Date: 6.SEP.2017 22:17:25

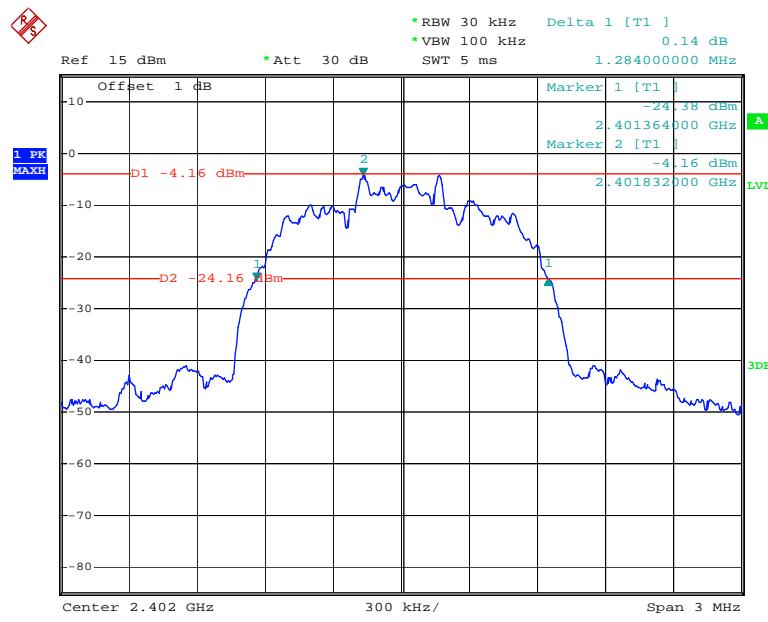
### High Channel



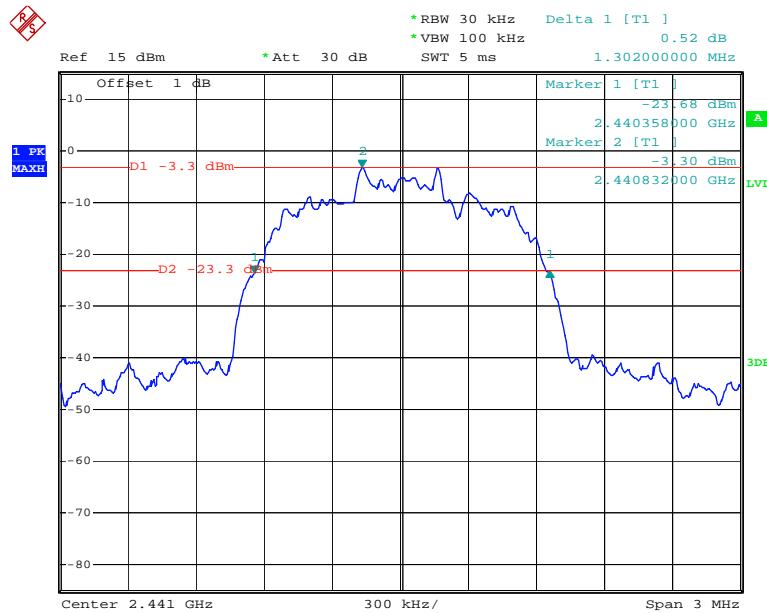
Date: 6.SEP.2017 22:16:10

*EDR Mode (8-DPSK):*

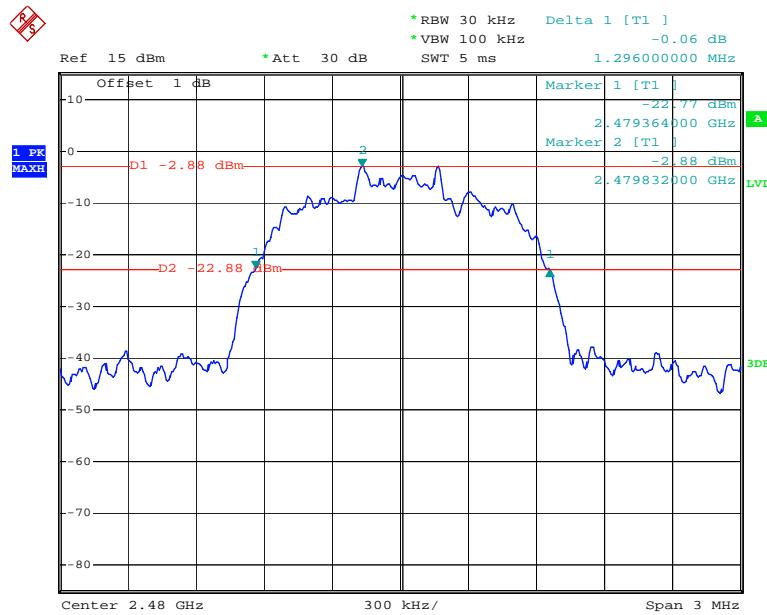
### Low Channel



Date: 6.SEP.2017 22:20:06

**Middle Channel**

Date: 6.SEP.2017 22:21:27

**High Channel**

Date: 6.SEP.2017 22:22:31

## 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	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-2	Each Time	/

\* **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:	27.3 °C
Relative Humidity:	60 %
ATM Pressure:	100.2 kPa

\* The testing was performed by Swim Lv on 2017-09-06.

**Test Result:** Compliance.

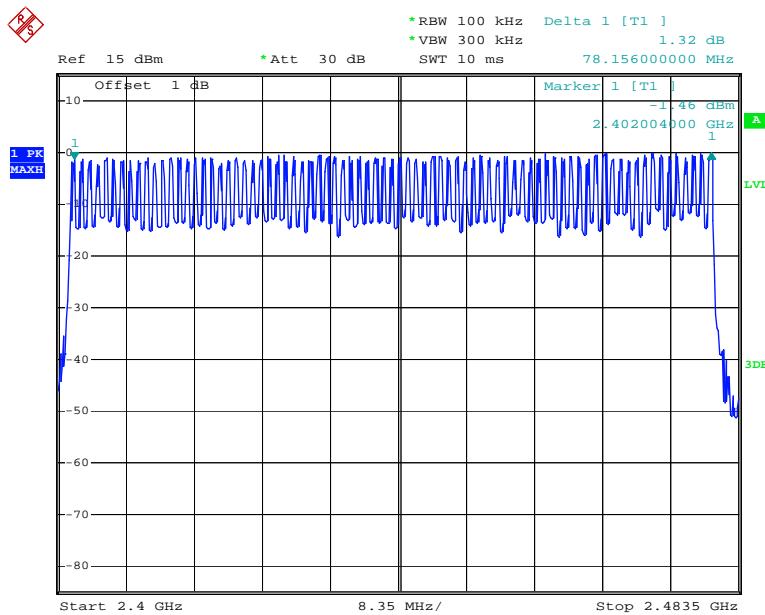
Please refer to following tables and plots

*Test Mode: Transmitting*

*BDR Mode (GFSK):*

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

### Number of Hopping Channels

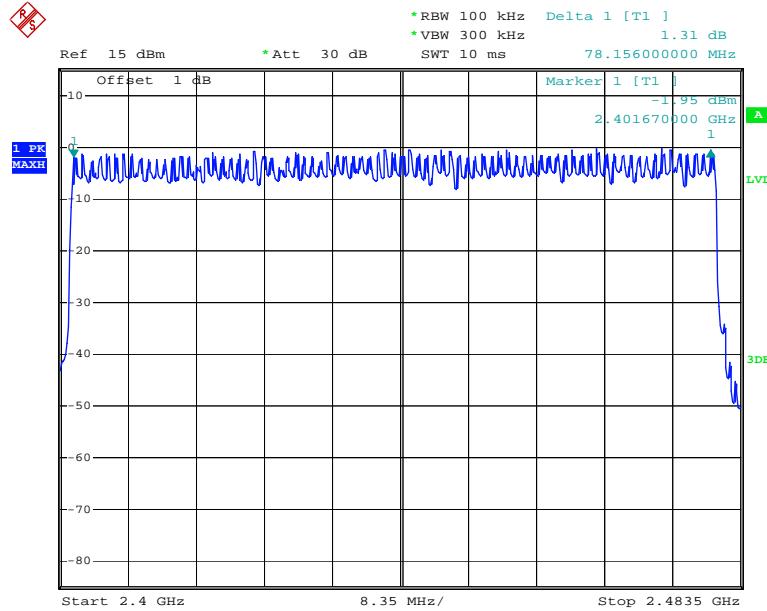


Date: 6.SEP.2017 22:32:23

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

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

### Number of Hopping Channels

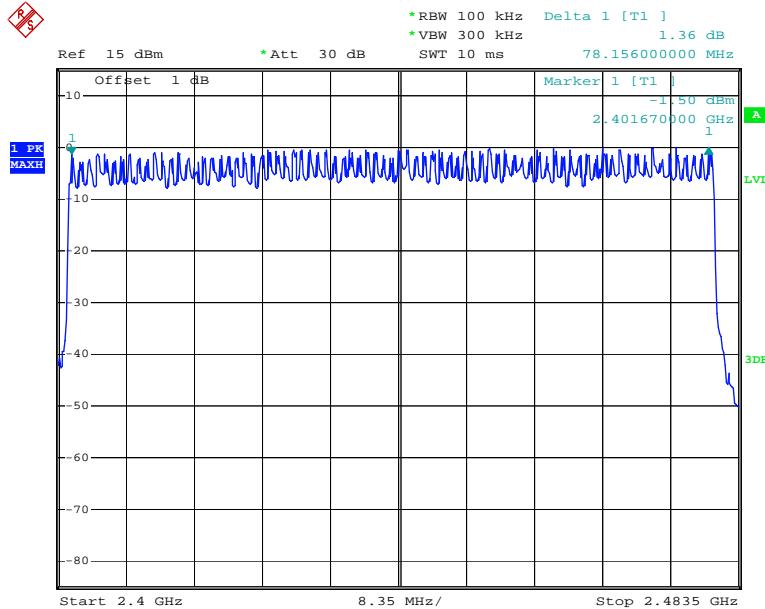


Date: 6.SEP.2017 22:45:05

EDR Mode (8-DPSK):

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

### Number of Hopping Channels



Date: 6.SEP.2017 22:51:20

**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; the time of single pulses was tested.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-2	Each Time	/

\* **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**

<b>Temperature:</b>	27.3~28.3 °C
<b>Relative Humidity:</b>	48~60 %
<b>ATM Pressure:</b>	100.2 kPa

\* The testing was performed by Swim Lv from 2017-09-06 to 2017-09-07.

**Test Result:** Compliance.

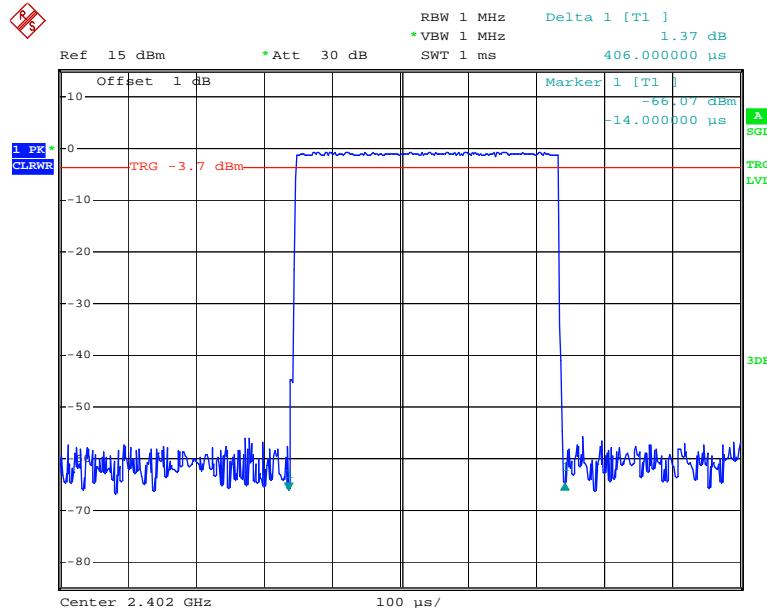
Please refer to following tables and plots

*Test Mode: Transmitting*

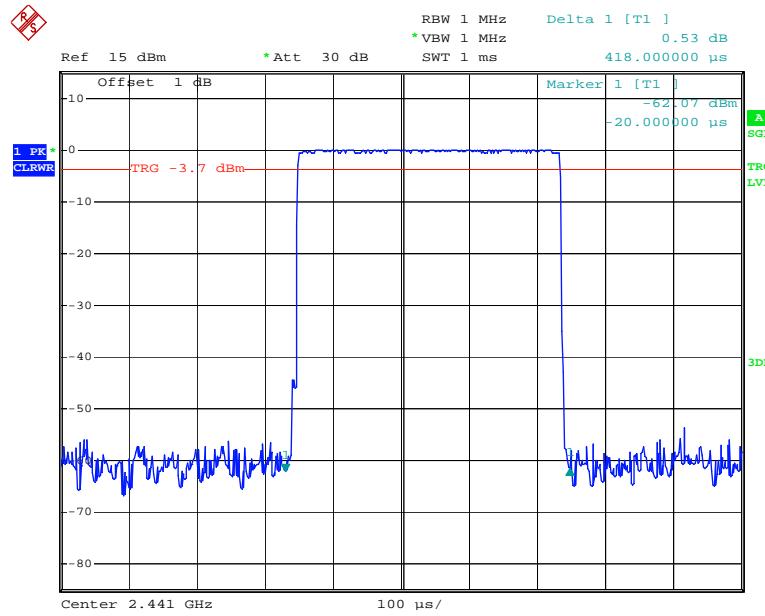
*BDR Mode (GFSK):*

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
<b>DH1</b>	Low	0.406	0.130	0.4	Compliance
	Middle	0.418	0.134	0.4	Compliance
	High	0.410	0.131	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
<b>DH3</b>	Low	1.694	0.271	0.4	Compliance
	Middle	1.678	0.268	0.4	Compliance
	High	1.686	0.270	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
<b>DH5</b>	Low	2.934	0.313	0.4	Compliance
	Middle	2.934	0.313	0.4	Compliance
	High	2.970	0.317	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

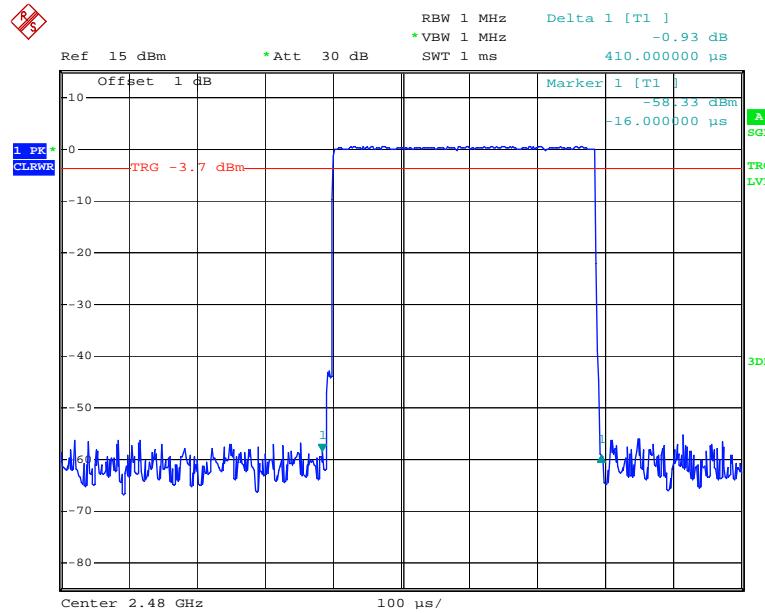
### DH1: Low Channel



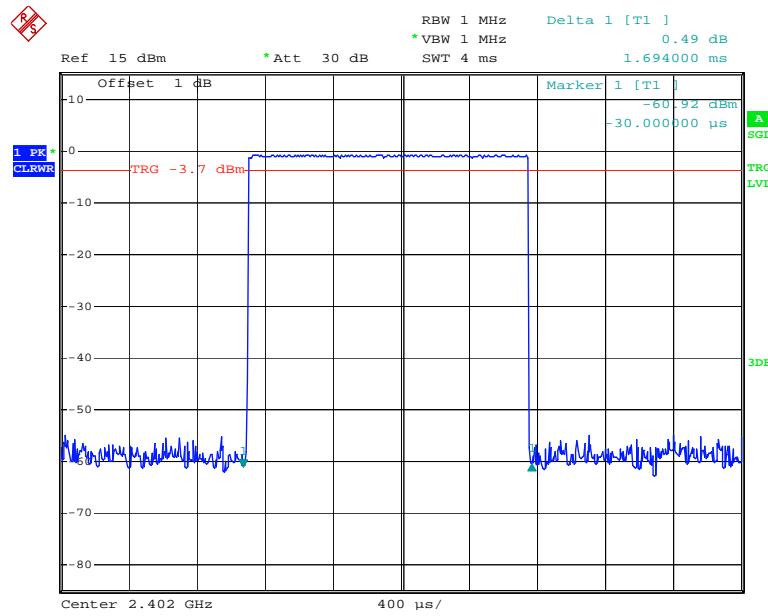
Date: 6.SEP.2017 23:34:11

**DH1: Middle Channel**

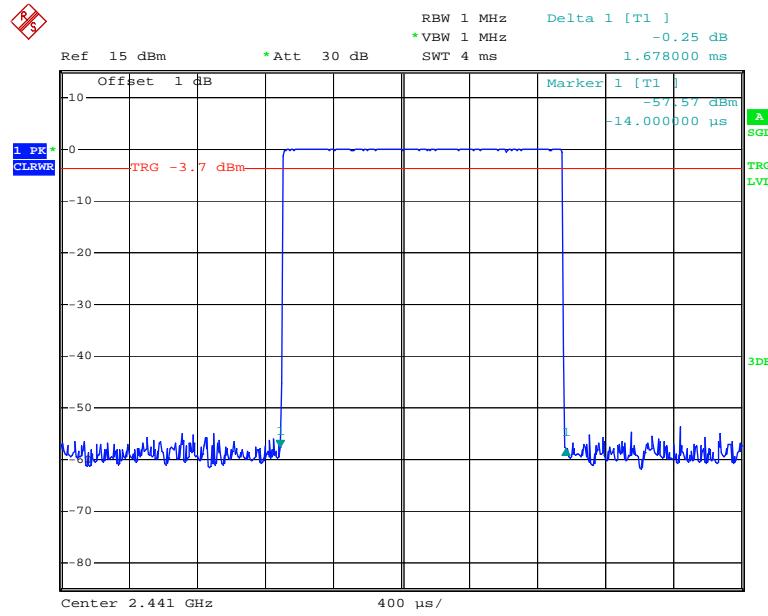
Date: 6.SEP.2017 23:32:58

**DH1: High Channel**

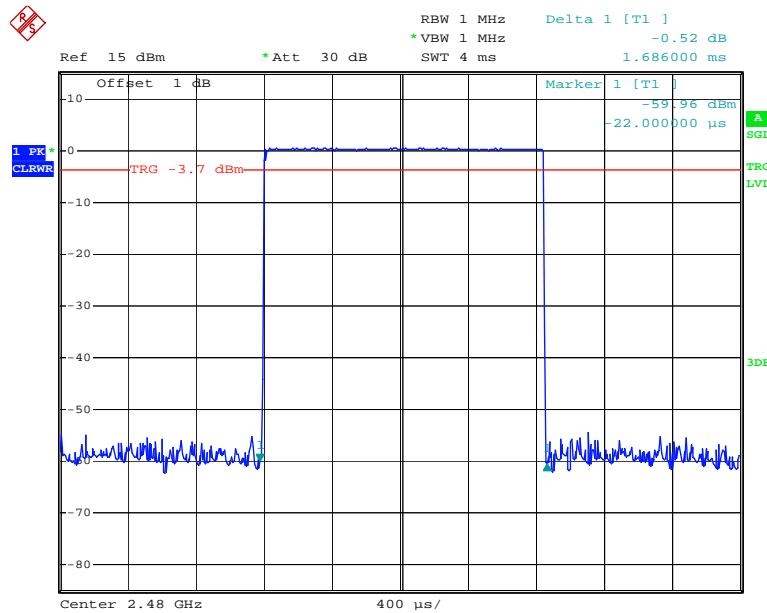
Date: 6.SEP.2017 23:31:47

**DH3: Low Channel**

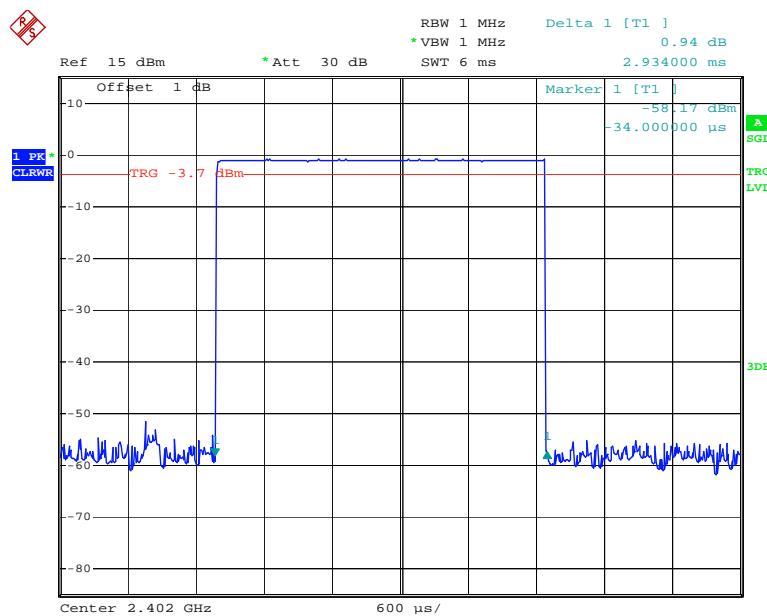
Date: 6.SEP.2017 23:35:36

**DH3: Middle Channel**

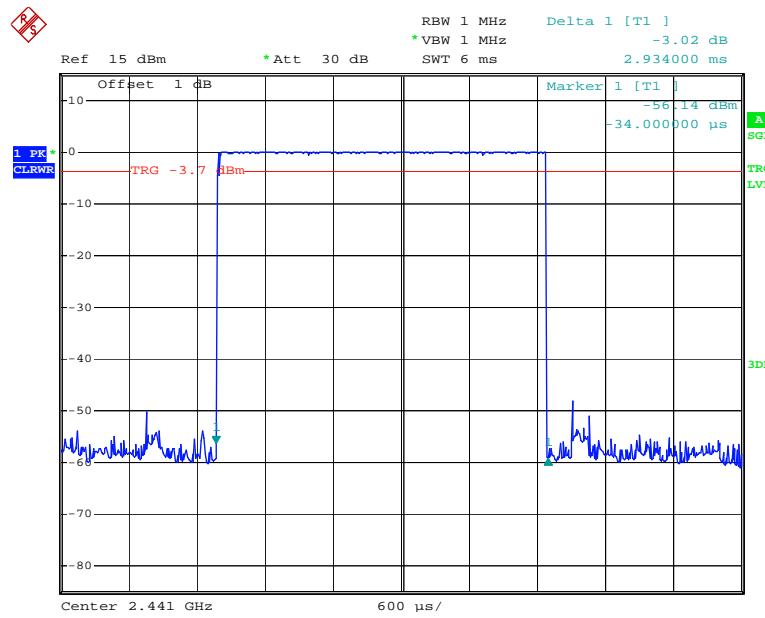
Date: 6.SEP.2017 23:36:36

**DH3: High Channel**

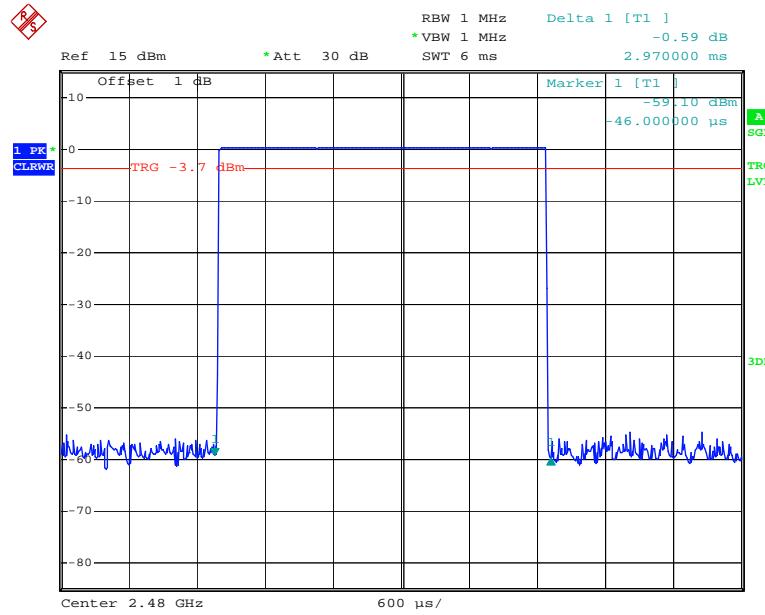
Date: 6.SEP.2017 23:37:21

**DH5: Low Channel**

Date: 6.SEP.2017 23:40:37

**DH5: Middle Channel**

Date: 6.SEP.2017 23:40:03

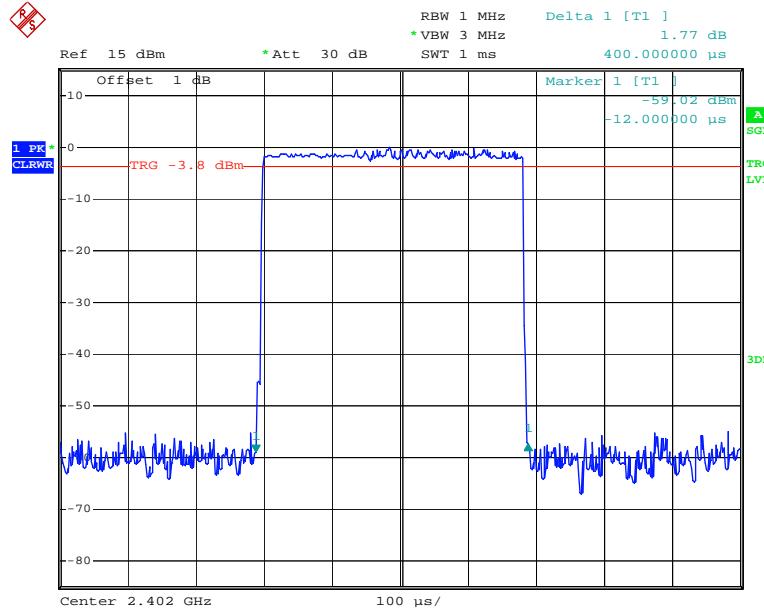
**DH5: High Channel**

Date: 6.SEP.2017 23:38:49

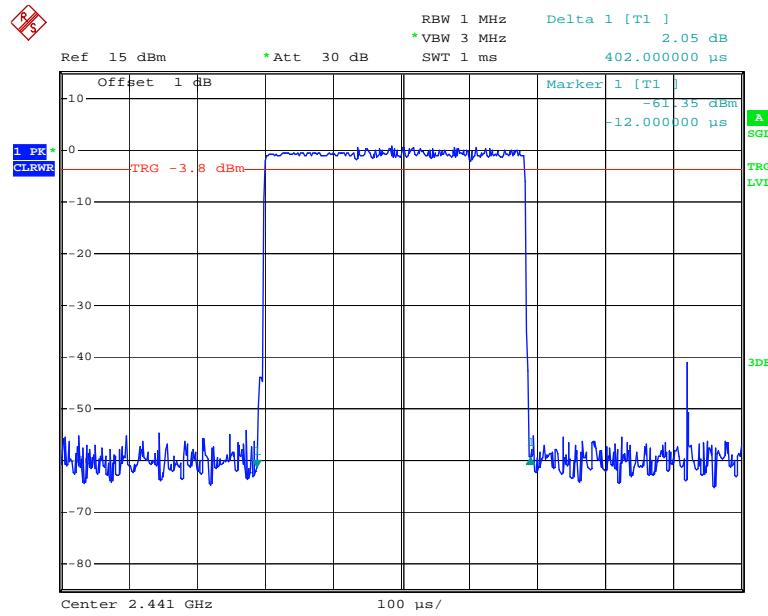
*EDR Mode ( $\pi/4$ -DQPSK):*

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.400	0.128	0.4	Compliance
	Middle	0.402	0.129	0.4	Compliance
	High	0.402	0.129	0.4	Compliance
Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s					
2DH3	Low	1.668	0.267	0.4	Compliance
	Middle	1.674	0.268	0.4	Compliance
	High	1.668	0.267	0.4	Compliance
Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s					
2DH5	Low	2.934	0.313	0.4	Compliance
	Middle	2.934	0.313	0.4	Compliance
	High	2.934	0.313	0.4	Compliance
Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s					

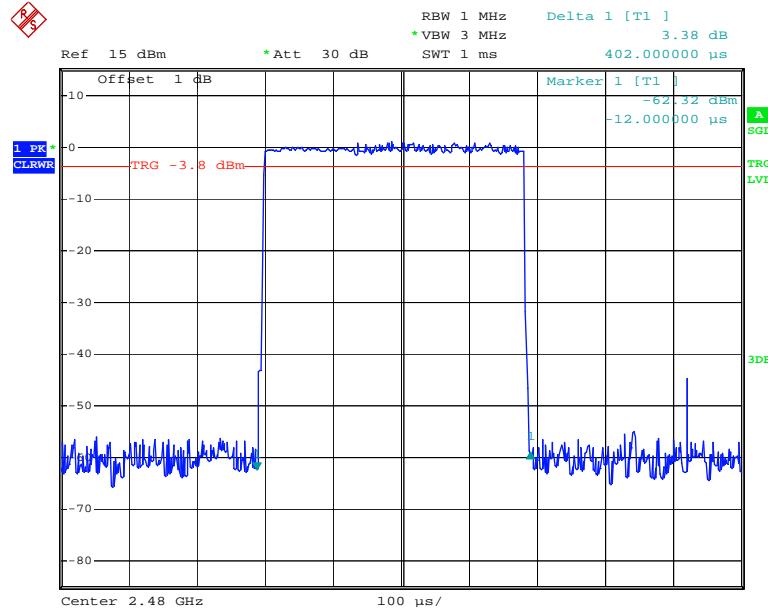
### 2DH1: Low Channel



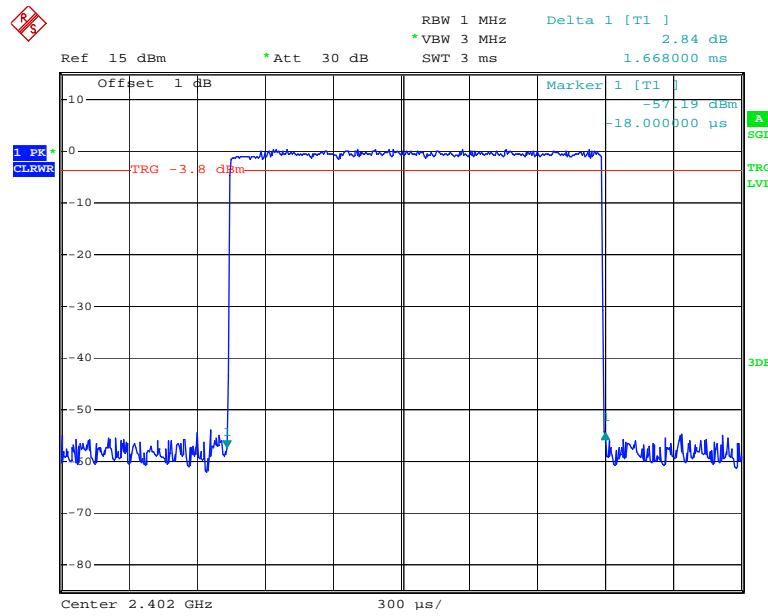
Date: 6.SEP.2017 23:54:28

**2DH1: Middle Channel**

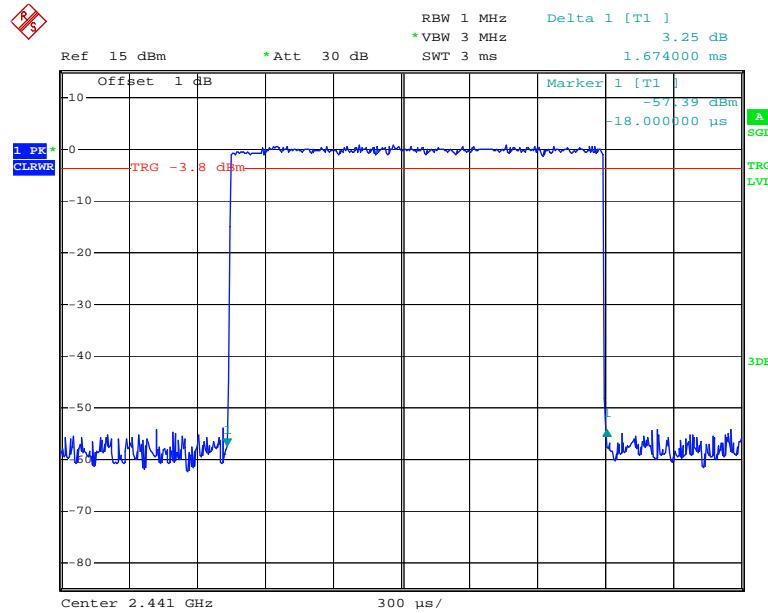
Date: 6.SEP.2017 23:53:56

**2DH1: High Channel**

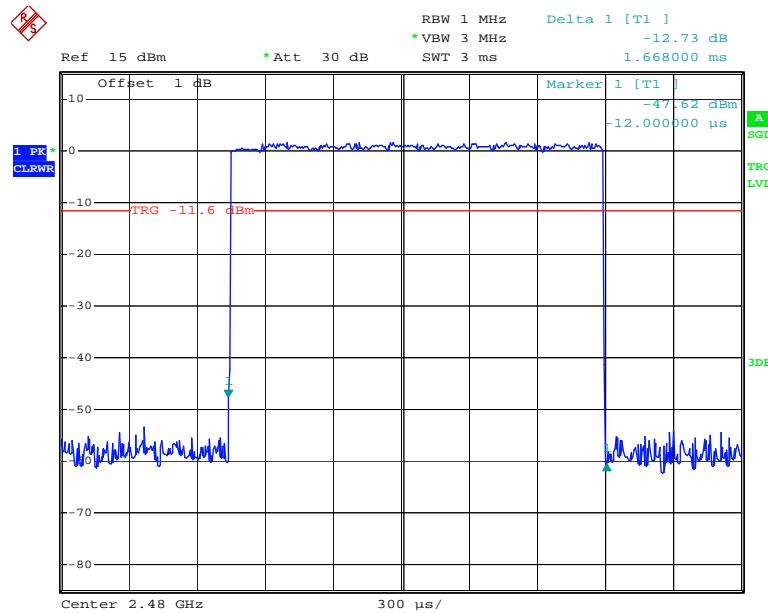
Date: 6.SEP.2017 23:55:01

**2DH3: Low Channel**

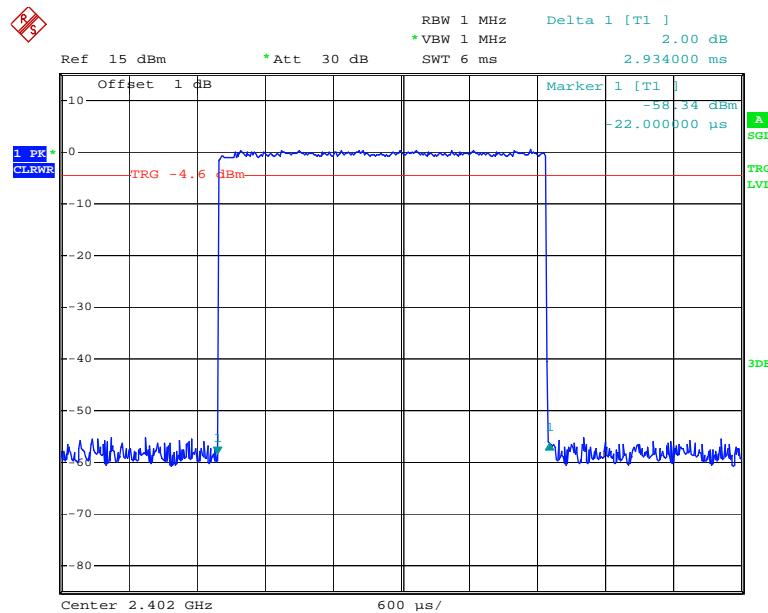
Date: 6.SEP.2017 23:50:34

**2DH3: Middle Channel**

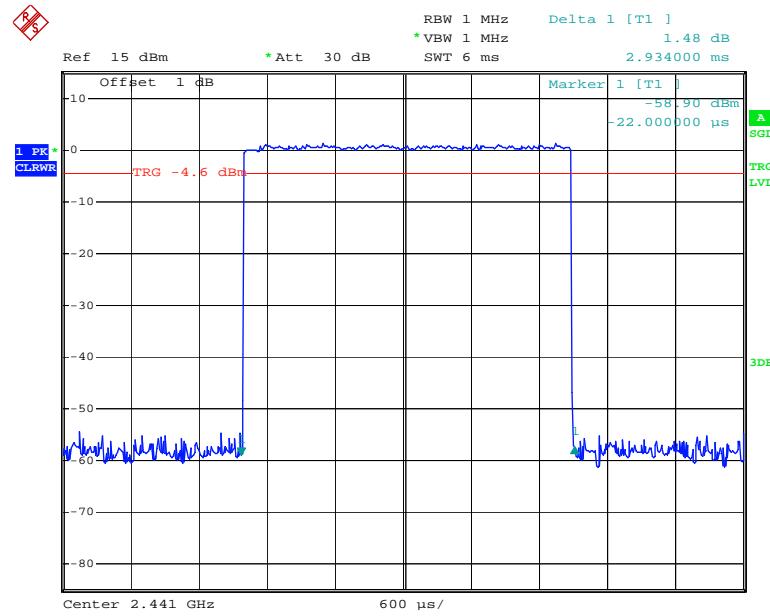
Date: 6.SEP.2017 23:51:46

**2DH3: High Channel**

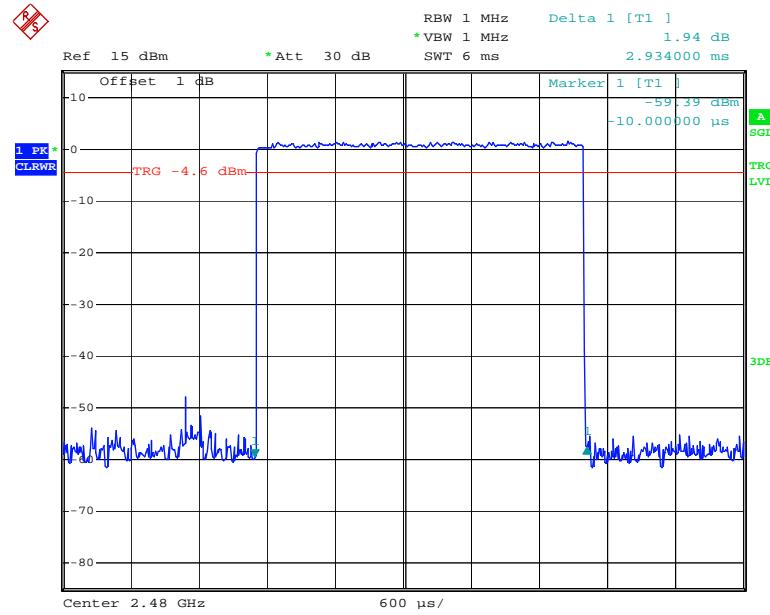
Date: 6.SEP.2017 23:47:17

**2DH5: Low Channel**

Date: 6.SEP.2017 23:42:13

**2DH5: Middle Channel**

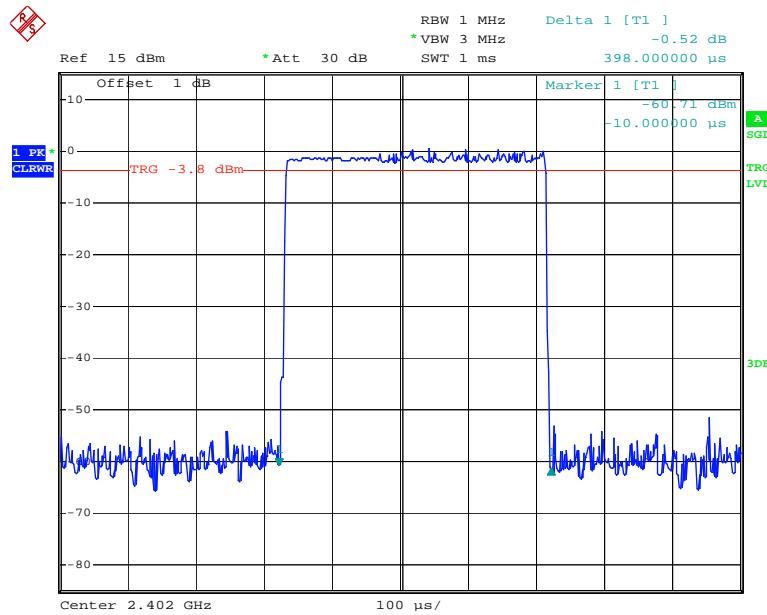
Date: 6.SEP.2017 23:44:02

**2DH5: High Channel**

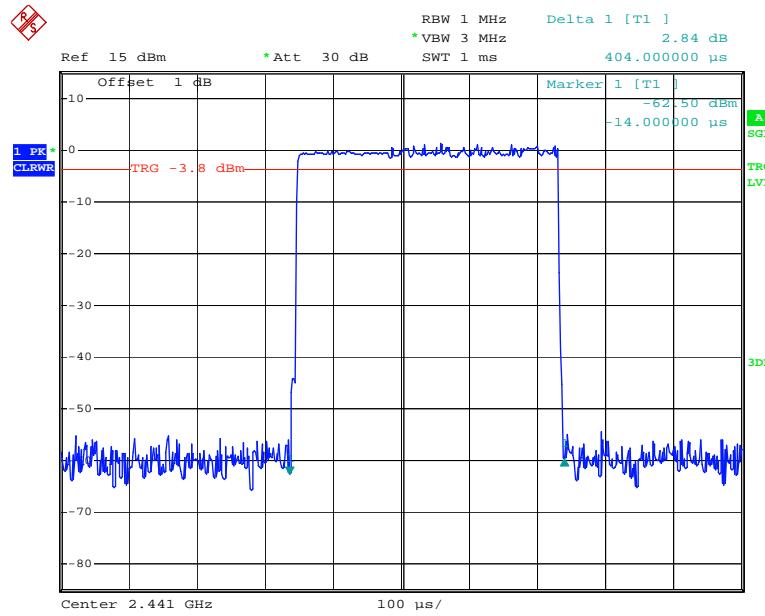
Date: 6.SEP.2017 23:44:37

*EDR Mode (8-DPSK):*

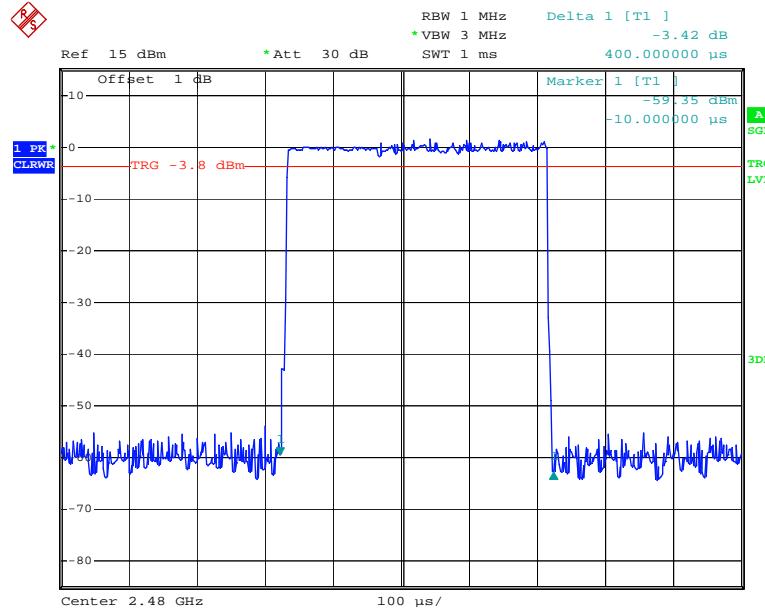
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
<b>3DH1</b>	Low	0.398	0.127	0.4	Compliance
	Middle	0.404	0.129	0.4	Compliance
	High	0.400	0.128	0.4	Compliance
Note: Dwell time=Pulse time (ms) × (1600/2/79) × 31.6 s					
<b>3DH3</b>	Low	1.670	0.267	0.4	Compliance
	Middle	1.670	0.267	0.4	Compliance
	High	1.662	0.266	0.4	Compliance
Note: Dwell time=Pulse time (ms) × (1600/4/79) × 31.6 s					
<b>3DH5</b>	Low	2.946	0.314	0.4	Compliance
	Middle	2.934	0.313	0.4	Compliance
	High	2.934	0.313	0.4	Compliance
Note: Dwell time=Pulse time (ms) × (1600/6/79) × 31.6 s					

**3DH1: Low Channel**

Date: 6.SEP.2017 23:58:34

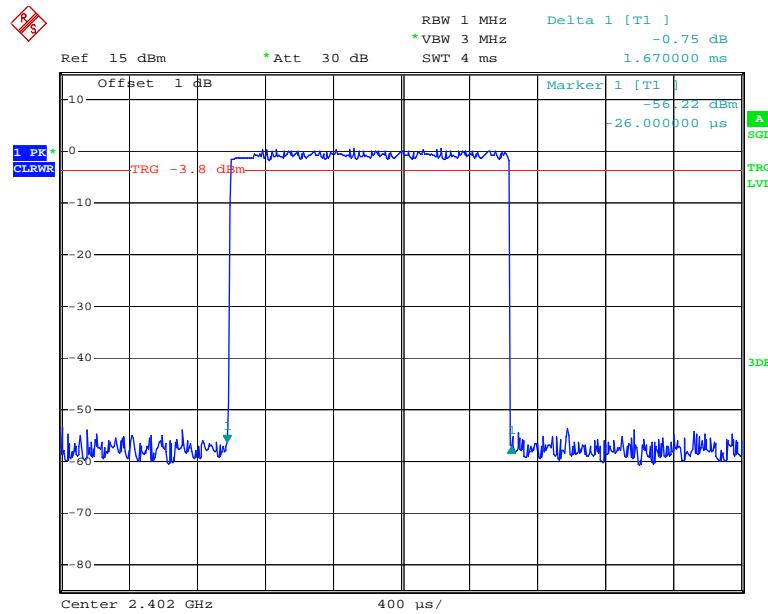
**3DH1: Middle Channel**

Date: 6.SEP.2017 23:56:35

**3DH1: High Channel**

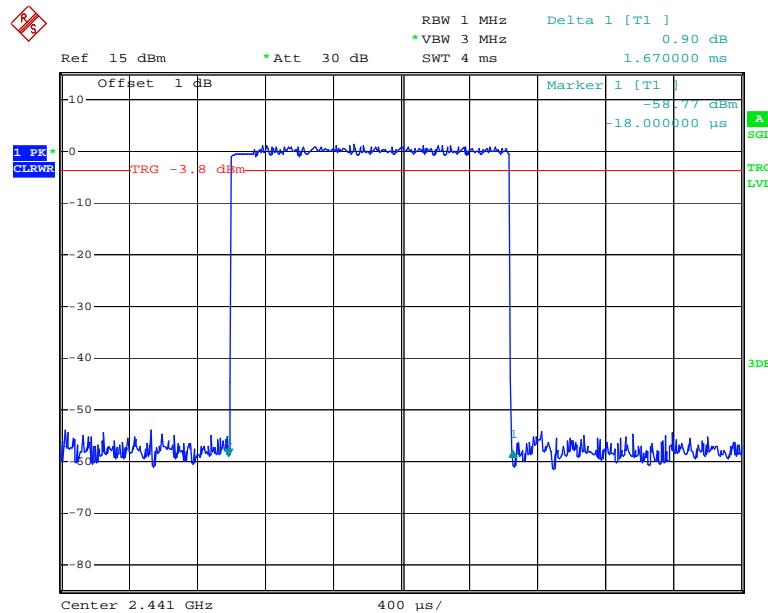
Date: 6.SEP.2017 23:57:23

### 3DH3: Low Channel

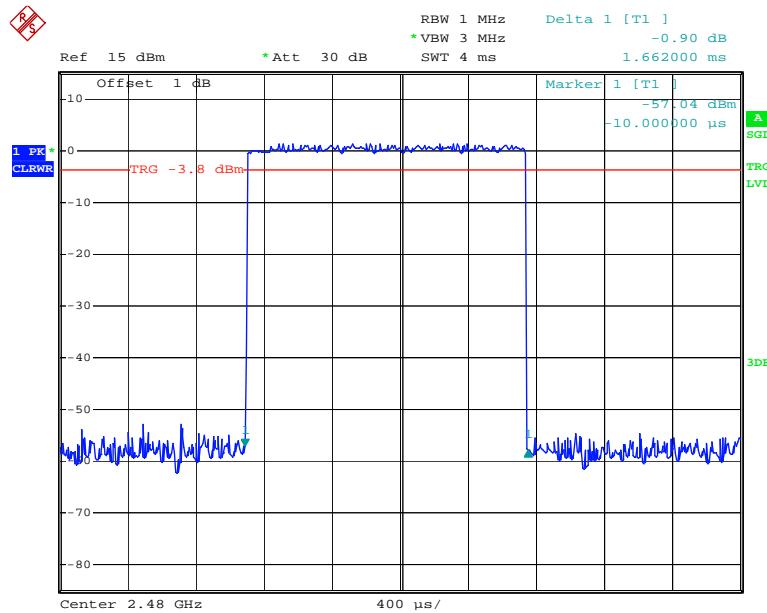


Date: 7.SEP.2017 00:00:59

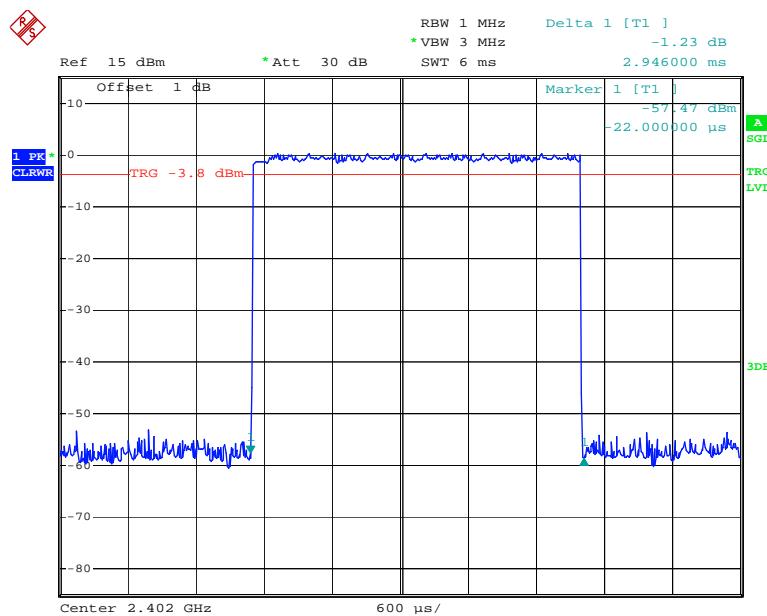
### 3DH3: Middle Channel



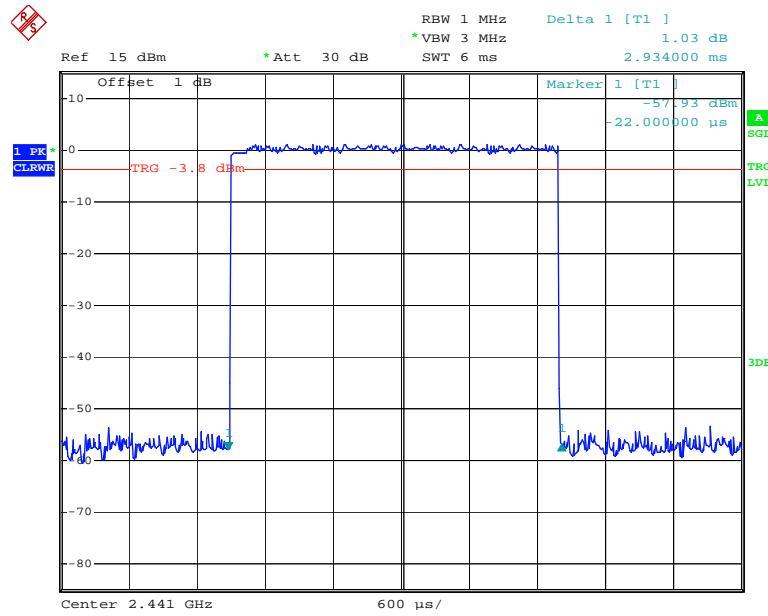
Date: 7.SEP.2017 00:01:37

**3DH3: High Channel**

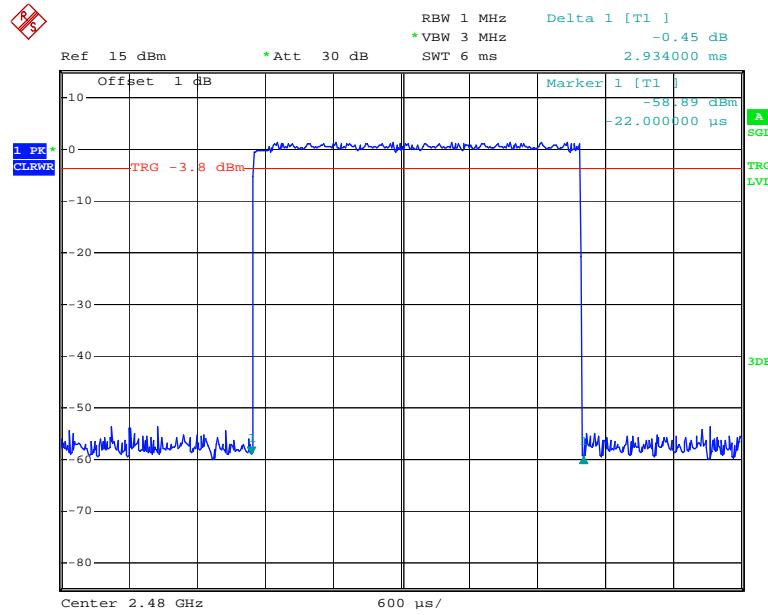
Date: 7.SEP.2017 00:02:17

**3DH5: Low Channel**

Date: 7.SEP.2017 00:05:55

**3DH5: Middle Channel**

Date: 7.SEP.2017 00:04:11

**3DH5: High Channel**

Date: 7.SEP.2017 00:04:48

## 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

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	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-2	Each Time	/

\* **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:	27.3 °C
Relative Humidity:	60 %
ATM Pressure:	100.2 kPa

\* The testing was performed by Swim Lv on 2017-09-06.

**Test Result:** Compliance.

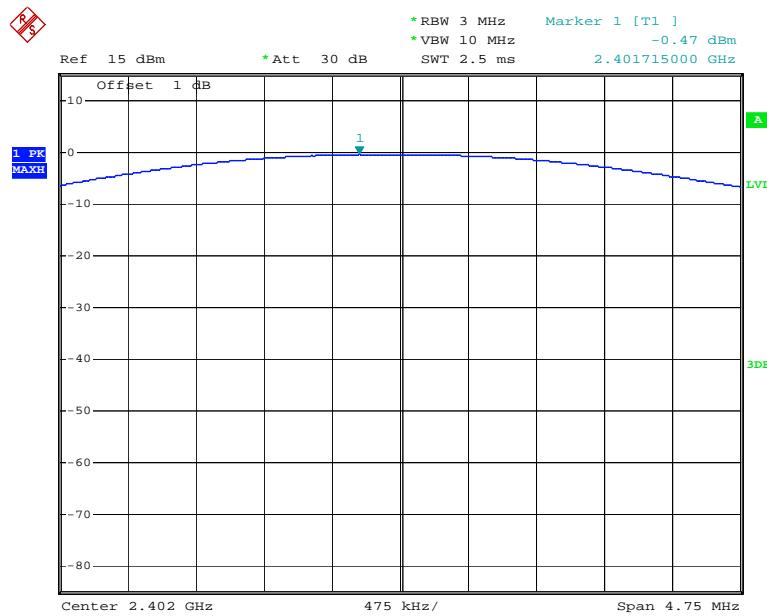
*Test Mode: Transmitting*

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	-0.47	30
	2441	0.38	30
	2480	0.81	30
EDR Mode ( $\pi/4$ -DQPSK)	2402	1.30	30
	2441	2.09	30
	2480	2.33	30
EDR Mode (8-DPSK)	2402	1.72	30
	2441	2.49	30
	2480	2.73	30

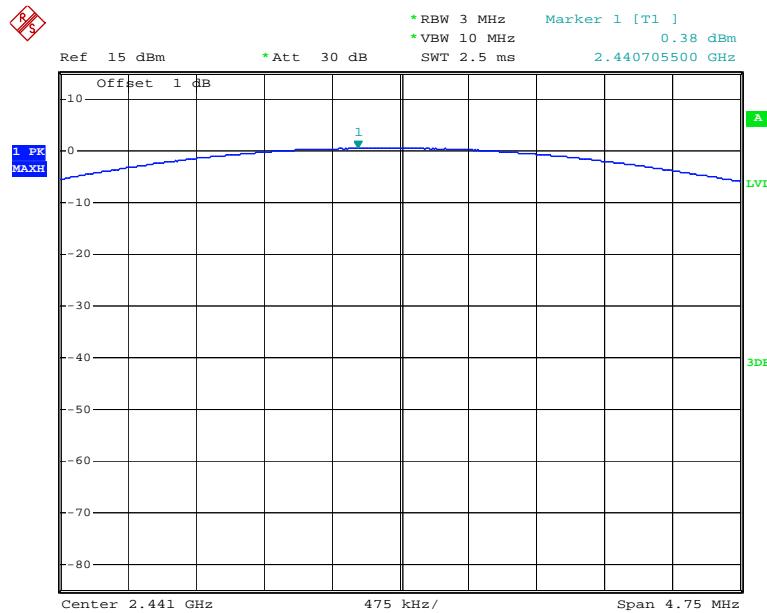
Note: The data above was tested in conducted mode.

#### **BDR Mode (GFSK):**

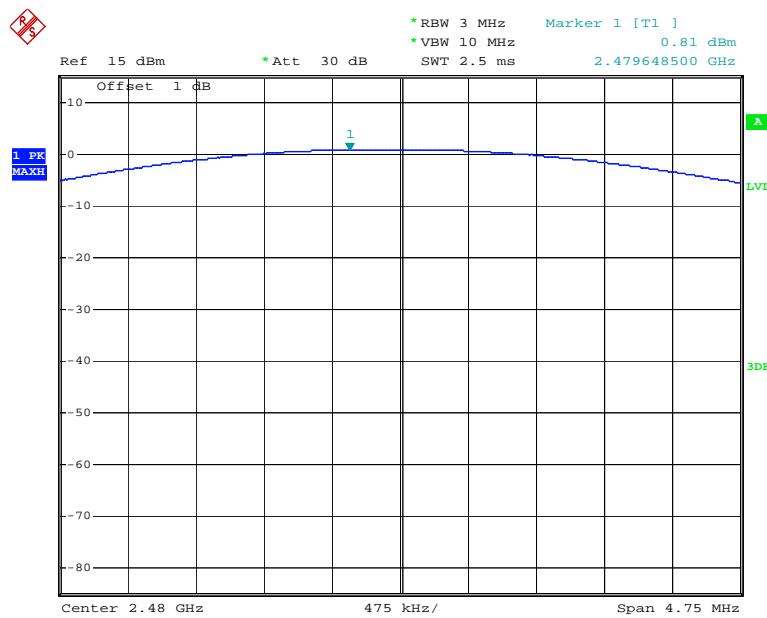
##### **Low Channel**



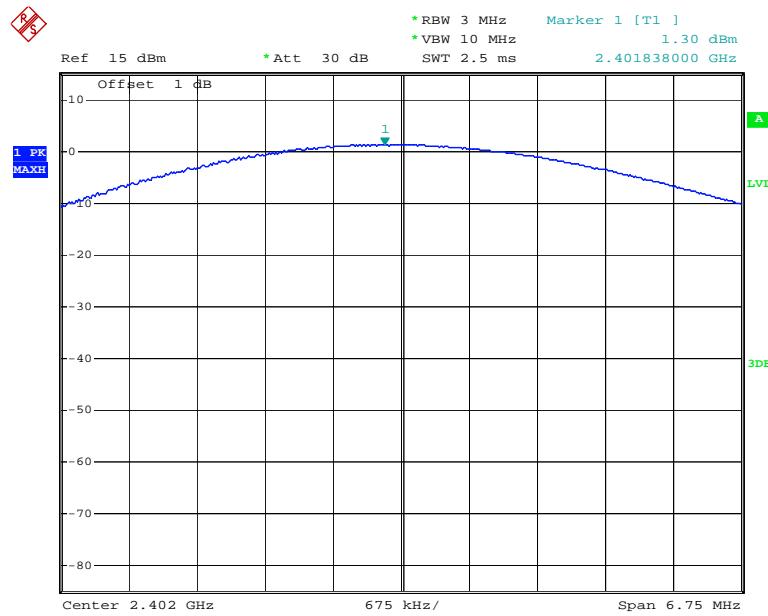
Date: 6.SEP.2017 22:28:28

**Middle Channel**

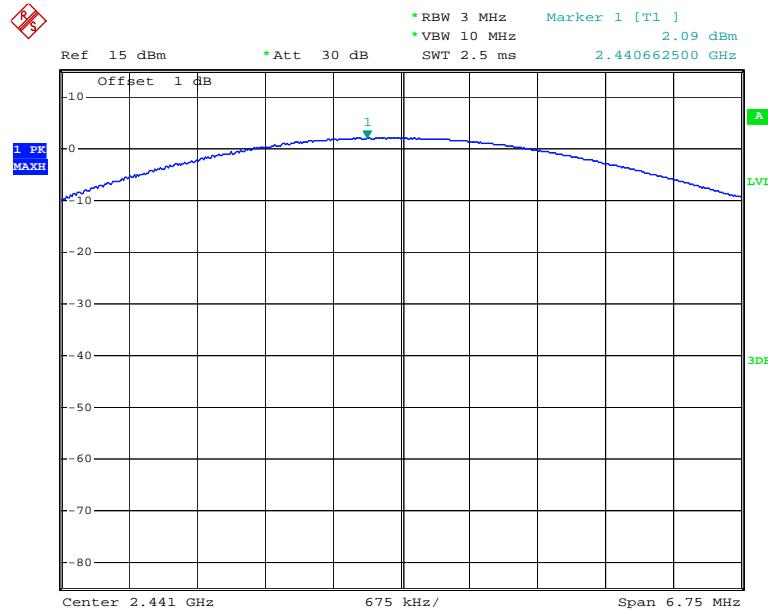
Date: 6.SEP.2017 22:27:10

**High Channel**

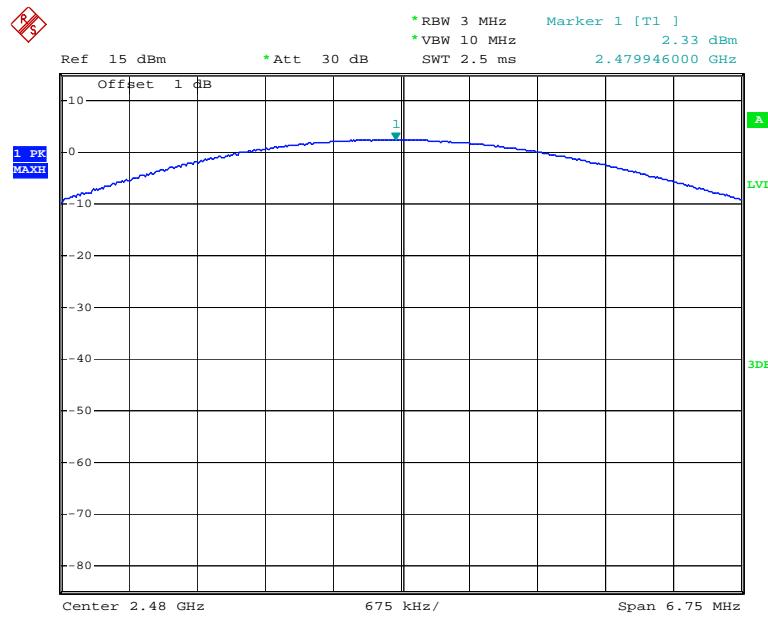
Date: 6.SEP.2017 22:24:49

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

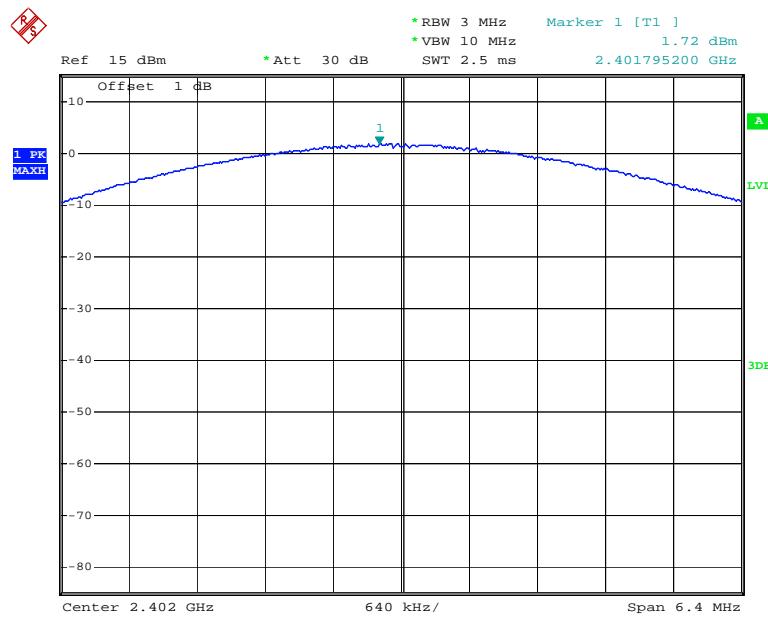
Date: 6.SEP.2017 22:19:11

**Middle Channel**

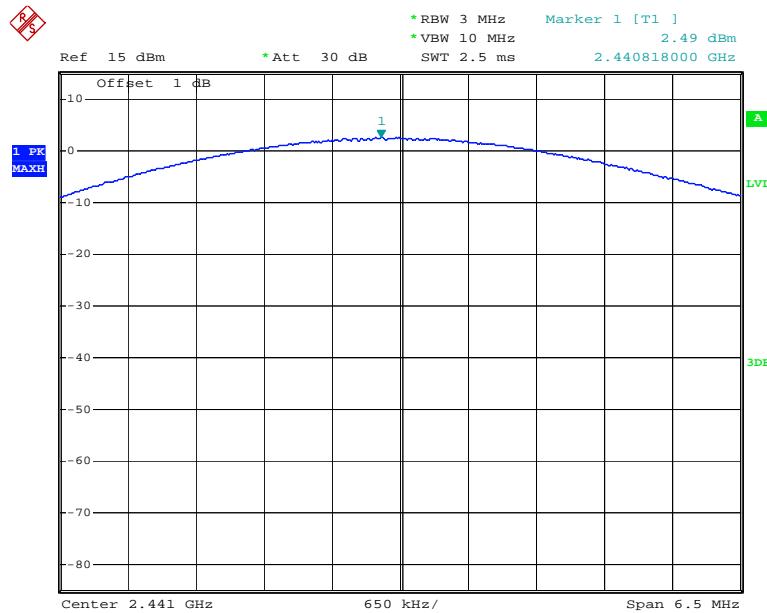
Date: 6.SEP.2017 22:17:51

**High Channel**

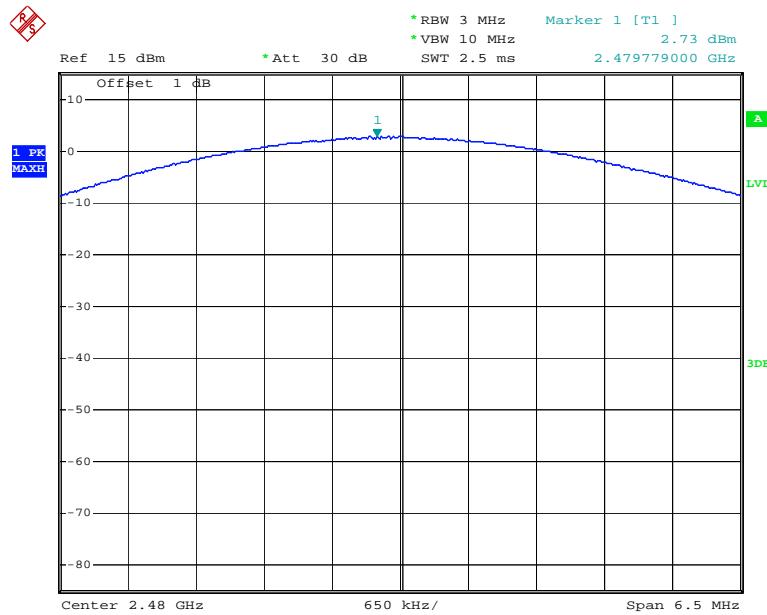
Date: 6.SEP.2017 22:16:37

**EDR Mode (8-DPSK):****Low Channel**

Date: 6.SEP.2017 22:20:32

**Middle Channel**

Date: 6.SEP.2017 22:21:52

**High Channel**

Date: 6.SEP.2017 22:22:56

## 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 RBW/ VBW of spectrum analyzer to 100/300 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	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-2	Each Time	/

\* **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

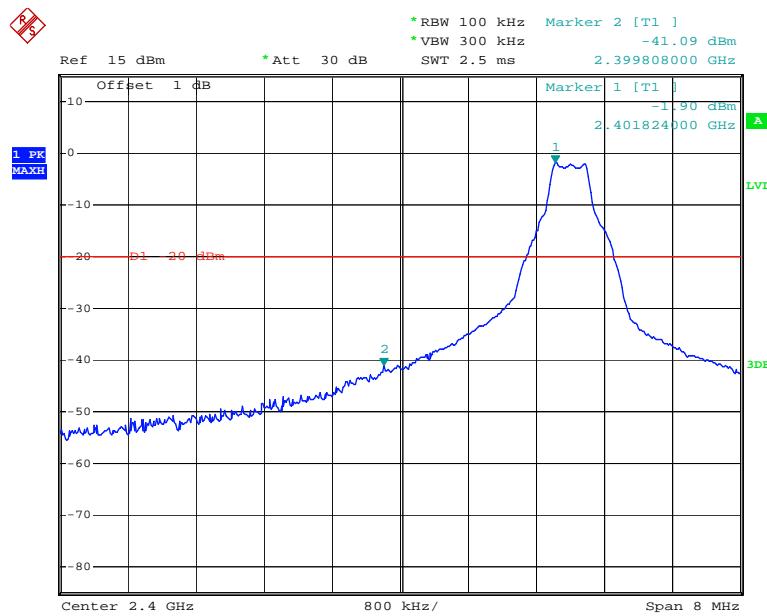
Temperature:	28.3 °C
Relative Humidity:	48 %
ATM Pressure:	100.2 kPa

\* The testing was performed by Swim Lv on 2017-09-07.

**Test Result:** Compliance

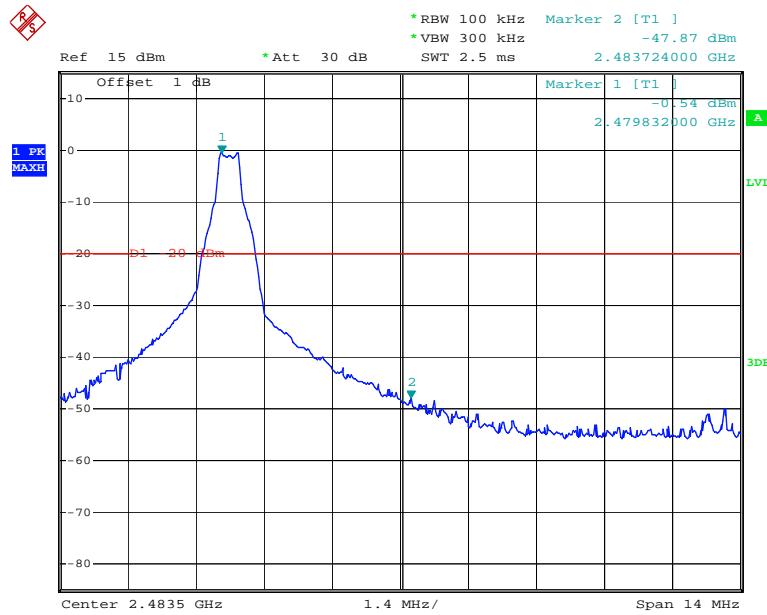
*BDR Mode (GFSK):*

### Band Edge, Left Side



Date: 7.SEP.2017 00:20:56

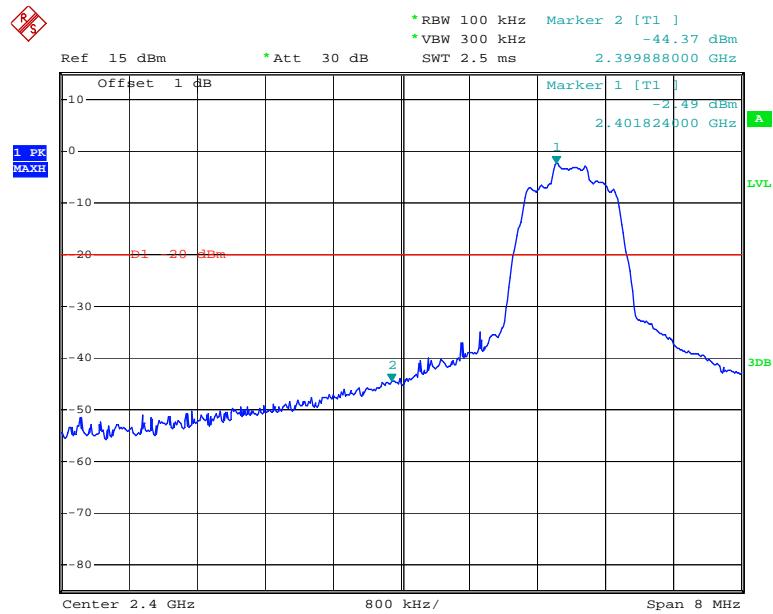
### Band Edge, Right Side



Date: 7.SEP.2017 00:23:52

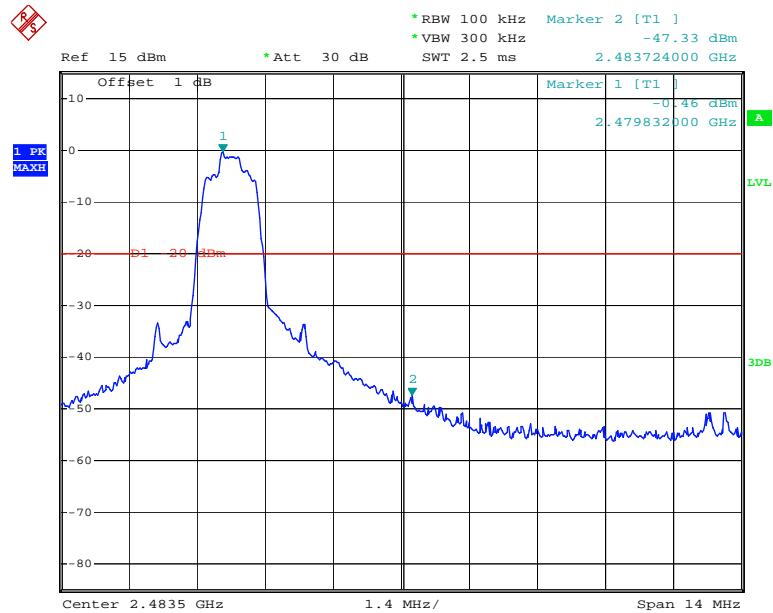
*EDR Mode ( $\pi/4$ -DQPSK):*

### Band Edge, Left Side



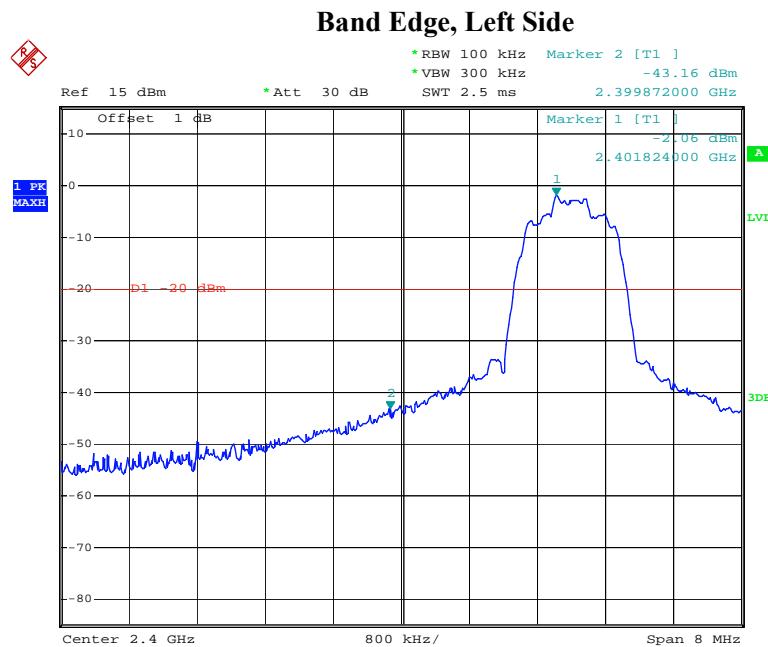
Date: 7.SEP.2017 00:33:12

### Band Edge, Right Side

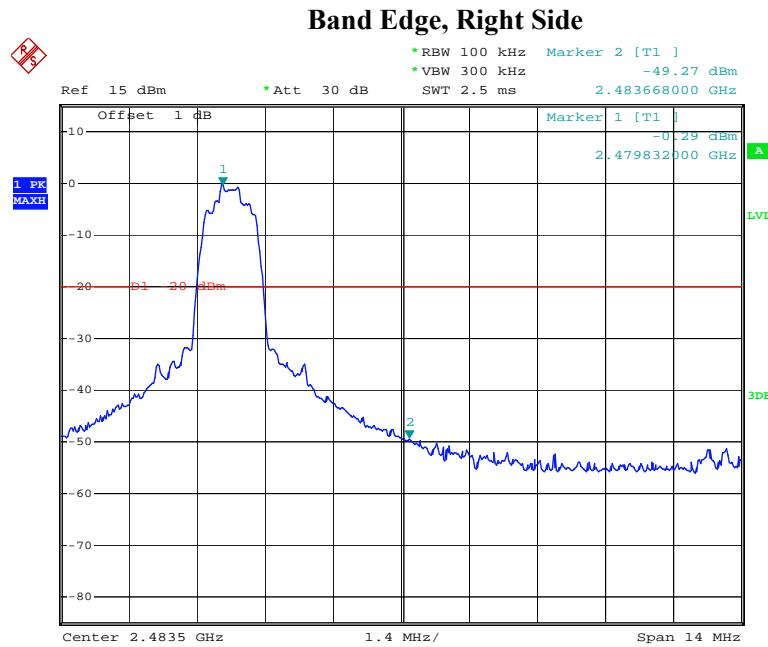


Date: 7.SEP.2017 00:29:04

*EDR Mode (8-DPSK):*



Date: 7.SEP.2017 00:31:32



Date: 7.SEP.2017 00:30:31

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