

FCC PART 15.247 TEST REPORT

For

Solnik S.A.

Dr. Emilio Ravignani 1724 C.A.B.A. –Republic Argentina

FCC ID: 2AFRUHY3-V11

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Jerry Zhang	
Reviewed By:	EMC Manager <i>Jerry Zhang</i>
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
MEASUREMENT UNCERTAINTY	5
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	6
SUPPORT CABLE LIST AND DETAILS	6
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
EUT SETUP	10
EMI TEST RECEIVER SETUP.....	10
TEST PROCEDURE	10
CORRECTED AMPLITUDE & MARGIN CALCULATION	11
TEST EQUIPMENT LIST AND DETAILS.....	11
TEST DATA	11
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	14
APPLICABLE STANDARD	14
EUT SETUP	14
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	15
TEST PROCEDURE	15
TEST EQUIPMENT LIST AND DETAILS.....	15
CORRECTED AMPLITUDE & MARGIN CALCULATION	16
TEST DATA	16
FCC §15.247(a) (1) - CHANNEL SEPARATION TEST	25
APPLICABLE STANDARD	25
TEST EQUIPMENT LIST AND DETAILS.....	25
TEST PROCEDURE	25
TEST DATA	25
FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING.....	31
APPLICABLE STANDARD	31
TEST PROCEDURE	31
TEST EQUIPMENT LIST AND DETAILS.....	31

TEST DATA	31
FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST	37
APPLICABLE STANDARD	37
TEST PROCEDURE	37
TEST EQUIPMENT LIST AND DETAILS.....	37
TEST DATA	37
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....	41
APPLICABLE STANDARD	41
TEST PROCEDURE	41
TEST EQUIPMENT LIST AND DETAILS.....	41
TEST DATA	41
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT.....	57
APPLICABLE STANDARD	57
TEST PROCEDURE	57
TEST EQUIPMENT LIST AND DETAILS.....	57
TEST DATA	57
FCC §15.247(d) - BAND EDGES TESTING	63
APPLICABLE STANDARD	63
TEST PROCEDURE	63
TEST EQUIPMENT LIST AND DETAILS.....	63
TEST DATA	64

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The **Solnik S.A.**'s product, model number: **HY3-V11 (FCC ID: 2AFRUHY3-V11)** (the "EUT") in this report was a **Mobile Phone**, which was measured approximately: 15.8 cm (L) x 7.7 cm (W) x 0.8 cm (H), rated input voltage:DC 3.85V from battery or DC 5.0V from adapter.

Adapter Information:

Model: TN-050155U2

Input: AC100-240V 50/60Hz 0.25A

Output: 5.0V, 1.55A

**All measurement and test data in this report was gathered from production sample serial number: 171102011 (Assigned by BACL,Dongguan). The EUT was received on 2017-11-02.*

Objective

This report is prepared on behalf of **Solnik S.A.** 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 15C DTS submissions with FCC ID: 2AFRUHY3-V11.

FCC Part 15B JBP submissions with FCC ID: 2AFRUHY3-V11.

FCC Part 22H, 24E, 27 PCE submissions with FCC ID: 2AFRUHY3-V11.

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/IEC 17025 by CNAS(Lab code: L5662). And accredited to ISO/IEC 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 'Engineer Mode' configured the maximum power level as below setting:

Test Software Version	Engineer Mode		
Test Frequency	2402MHz	2441MHz	2480MHz
GFSK	8	8	8
π / 4DQPSK	8	8	8
8-DPSK	8	8	8

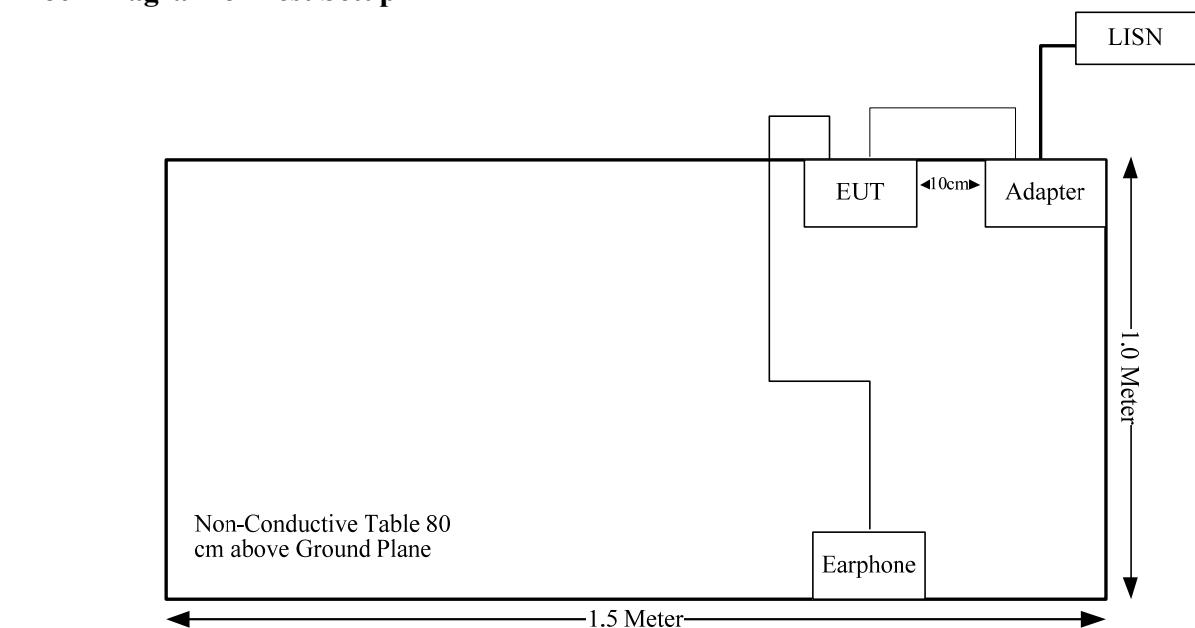
Equipment Modifications

No modification was made to the EUT.

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.02	EUT	Adapter
Earphone	No	No	1.2	Earphone	EUT

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 ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
 ≤ 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 max conducted power including tune-up tolerance is 6.5 dBm (4.47 mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 4.47/5 \cdot (\sqrt{2.480}) = 1.4 < 3.0$

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 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

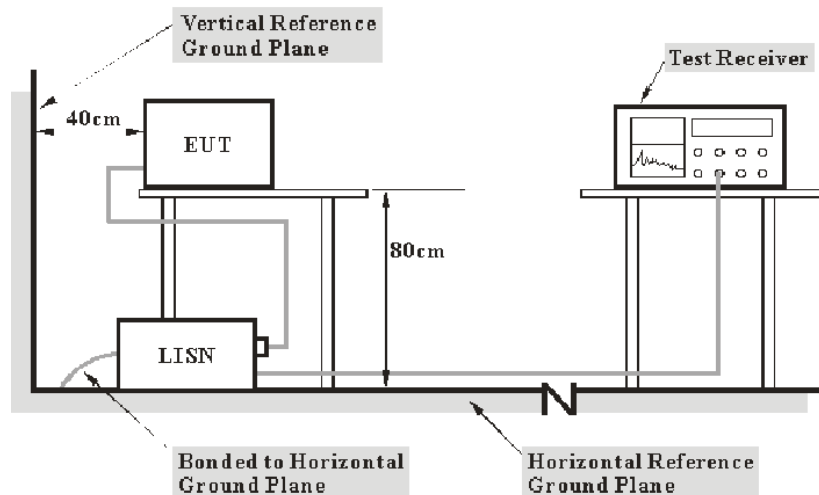
Result: Compliance.

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	2016/12/8	2017/12/8
R&S	L.I.S.N	ESH2-Z5	892107/021	2017/9/25	2018/9/25
R&S	Two-line V-network	ENV 216	3560.6550.12	2016/12/8	2017/12/8
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
N/A	Coaxial Cable	C-NJNJ-50	C-0200-01	2017/9/5	2018/9/5

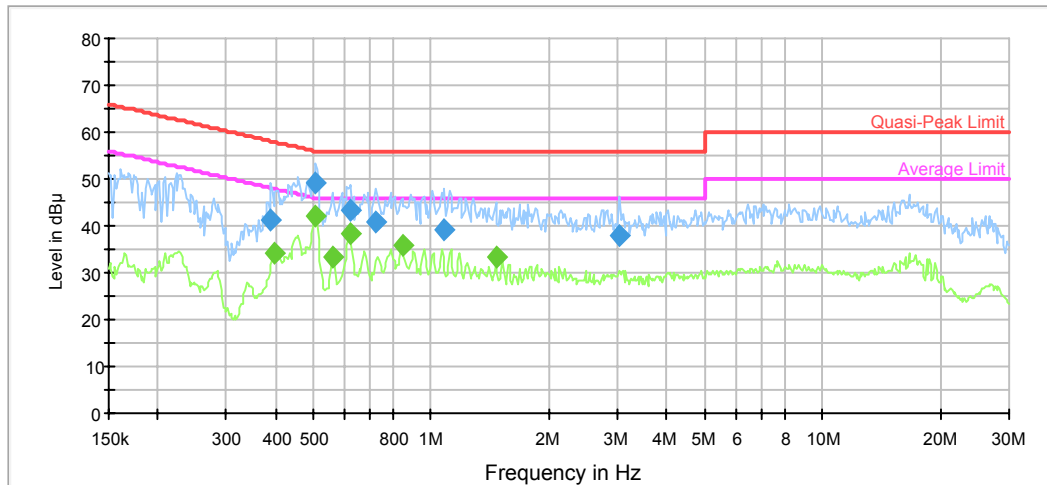
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

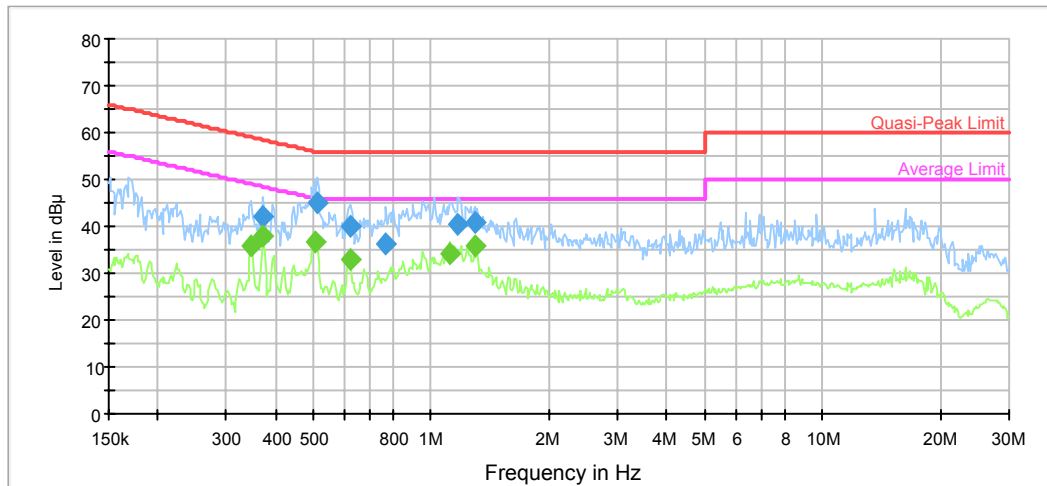
Temperature:	24.6 °C
Relative Humidity:	39 %
ATM Pressure:	101.6 kPa

The testing was performed by Alex You on 2017-11-06.

Test Mode: Transmitting**AC120V, 60 Hz, Line:**

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.390261	41.3	9.000	L1	10.0	16.8	58.1	Compliance
0.507637	49.2	9.000	L1	9.9	6.8	56.0	Compliance
0.624492	43.5	9.000	L1	9.8	12.5	56.0	Compliance
0.720803	40.8	9.000	L1	9.8	15.2	56.0	Compliance
1.082190	39.1	9.000	L1	9.8	16.9	56.0	Compliance
3.024908	38.0	9.000	L1	9.8	18.0	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.399703	34.2	9.000	L1	10.0	13.7	47.9	Compliance
0.503608	42.1	9.000	L1	9.9	3.9	46.0	Compliance
0.558572	33.5	9.000	L1	9.9	12.5	46.0	Compliance
0.619536	38.5	9.000	L1	9.8	7.5	46.0	Compliance
0.845331	35.9	9.000	L1	9.8	10.1	46.0	Compliance
1.464886	33.3	9.000	L1	9.7	12.7	46.0	Compliance

AC120V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.372042	42.0	9.000	N	10.0	16.5	58.5	Compliance
0.511698	45.0	9.000	N	9.9	11.0	56.0	Compliance
0.624492	40.1	9.000	N	9.8	15.9	56.0	Compliance
0.768247	36.2	9.000	N	9.8	19.8	56.0	Compliance
1.171949	40.4	9.000	N	9.8	15.6	56.0	Compliance
1.289541	40.7	9.000	N	9.8	15.3	56.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.346296	35.9	9.000	N	10.0	13.2	49.1	Compliance
0.372042	37.9	9.000	N	10.0	10.6	48.5	Compliance
0.503608	36.8	9.000	N	9.9	9.2	46.0	Compliance
0.619536	32.9	9.000	N	9.8	13.1	46.0	Compliance
1.117238	34.3	9.000	N	9.8	11.7	46.0	Compliance
1.289541	36.0	9.000	N	9.8	10.0	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.

The emissions under limit 20dBc or below the noise floor have not recorded in the report.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2017/9/1	2018/9/1
Sunol Sciences	Antenna	JB3	A060611-2	2017/8/25	2020/8/25
HP	Amplifier	8447D	2727A05902	2017/9/5	2018/9/5
Agilent	Spectrum Analyzer	E4440A	SG43360054	2016/12/8	2017/12/8
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016/1/5	2019/1/5
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2017/9/5	2018/9/5
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2016/11/18	2019/11/18
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2017/6/27	2018/6/27
N/A	Coaxial Cable	C-NJNJ-50	C-0400-01	2017/9/5	2018/9/5
N/A	Coaxial Cable	C-NJNJ-50	C-0075-01	2017/9/5	2018/9/5
N/A	Coaxial Cable	C-NJNJ-50	C-1000-01	2017/9/5	2018/9/5
N/A	Coaxial Cable	C-SJSJ-50	C-0800-01	2017/9/5	2018/9/5
Farad	Test Software	EZ-EMC	V1.1.42	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

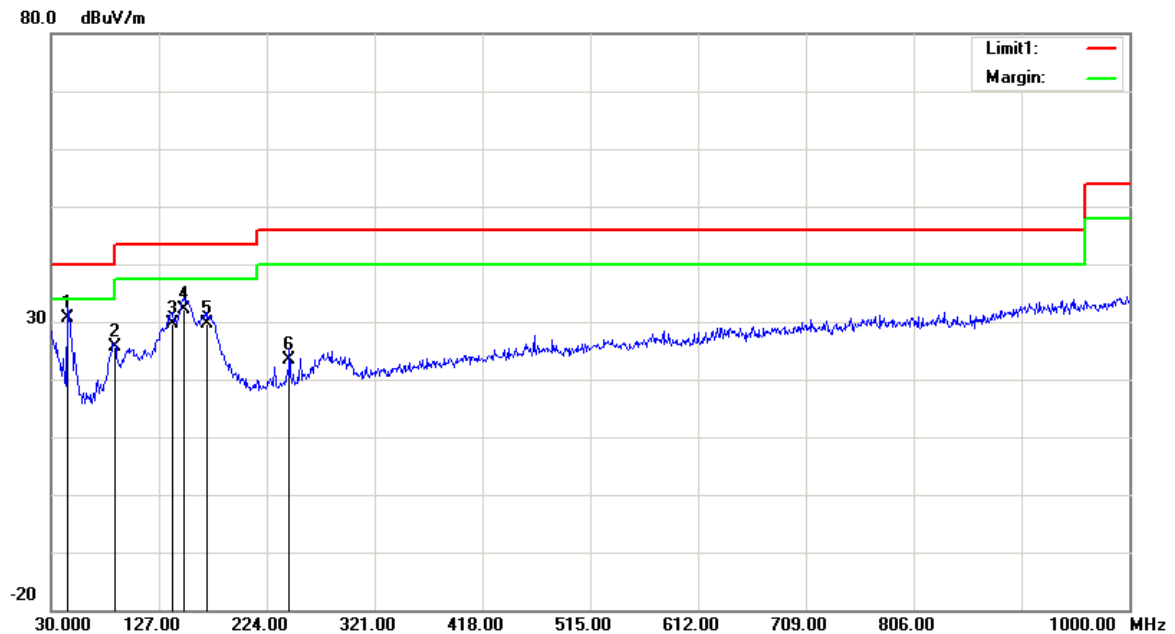
Temperature:	26.6°C
Relative Humidity:	28.5 %
ATM Pressure:	101.3 kPa

The testing was performed by Blake Yang from 2017-11-15

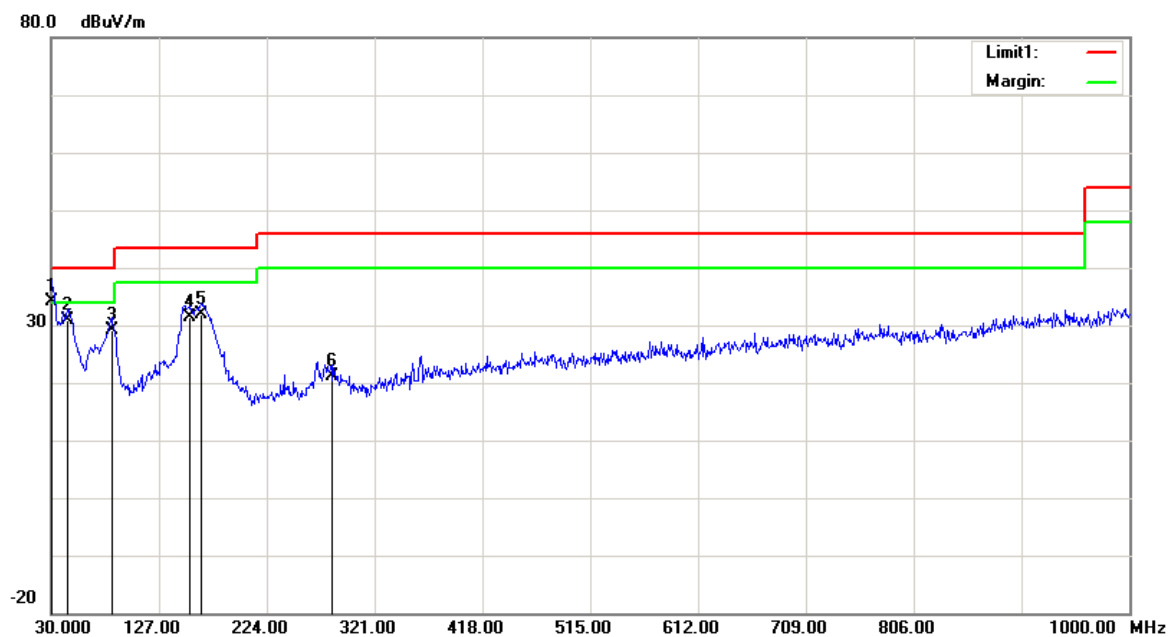
Test Mode: Transmitting

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

Horizontal:



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
44.5500	39.87	QP	-9.27	30.60	40.00	9.40
87.2300	36.75	QP	-11.15	25.60	40.00	14.40
138.6400	35.57	QP	-5.97	29.60	43.50	13.90
149.3100	38.56	QP	-6.46	32.10	43.50	11.40
170.6500	37.00	QP	-7.40	29.60	43.50	13.90
244.3700	29.70	QP	-6.30	23.40	46.00	22.60

Vertical:

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	33.12	QP	1.08	34.20	40.00	5.80
44.5500	40.17	QP	-9.27	30.90	40.00	9.10
84.3200	40.34	QP	-11.14	29.20	40.00	10.80
155.1300	37.91	QP	-6.51	31.40	43.50	12.10
164.8300	38.83	QP	-6.93	31.90	43.50	11.60
282.2000	24.86	QP	-3.66	21.20	46.00	24.80

2) 1GHz-25GHz:
BDR Mode (GFSK):

dBµV/m (GFSK):									
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402.00	60.14	PK	H	24.82	5.41	0.00	90.37	N/A	N/A
2402.00	51.31	AV	H	24.82	5.41	0.00	81.54	N/A	N/A
2402.00	64.89	PK	V	24.82	5.41	0.00	95.12	N/A	N/A
2402.00	55.9	AV	V	24.82	5.41	0.00	86.13	N/A	N/A
2390.00	24.53	PK	V	24.80	5.36	0.00	54.69	74.00	19.31
2390.00	12.34	AV	V	24.80	5.36	0.00	42.50	54.00	11.50
4804.00	38.24	PK	V	29.71	7.25	27.36	47.84	74.00	26.16
4804.00	29.31	AV	V	29.71	7.25	27.36	38.91	54.00	15.09
7206.00	37.51	PK	V	33.93	8.94	27.19	53.19	74.00	20.81
7206.00	28.42	AV	V	33.93	8.94	27.19	44.10	54.00	9.90
1936.00	38.08	PK	V	24.10	4.98	27.87	39.29	74.00	34.71
1936.00	26.08	AV	V	24.10	4.98	27.87	27.29	54.00	26.71
Middle Channel: 2441 MHz									
2441.00	60.15	PK	H	24.89	5.41	0.00	90.45	N/A	N/A
2441.00	50.16	AV	H	24.89	5.41	0.00	80.46	N/A	N/A
2441.00	65.85	PK	V	24.89	5.41	0.00	96.15	N/A	N/A
2441.00	54.67	AV	V	24.89	5.41	0.00	84.97	N/A	N/A
4882.00	39.13	PK	V	29.86	7.59	27.56	49.02	74.00	24.98
4882.00	29.46	AV	V	29.86	7.59	27.56	39.35	54.00	14.65
7323.00	37.45	PK	V	34.12	9.29	27.26	53.60	74.00	20.4
7323.00	28.13	AV	V	34.12	9.29	27.26	44.28	54.00	9.72
2572.00	37.56	PK	V	25.10	5.27	27.89	40.04	74.00	33.96
2572.00	26.46	AV	V	25.10	5.27	27.89	28.94	54.00	25.06
3675.00	37.42	PK	V	27.55	6.38	26.77	44.58	74.00	29.42
3675.00	28.38	AV	V	27.55	6.38	26.77	35.54	54.00	18.46
High Channel: 2480 MHz									
2480.00	59.68	PK	H	24.96	5.41	0.00	90.05	N/A	N/A
2480.00	49.73	AV	H	24.96	5.41	0.00	80.10	N/A	N/A
2480.00	64.37	PK	V	24.96	5.41	0.00	94.74	N/A	N/A
2480.00	55.21	AV	V	24.96	5.41	0.00	85.58	N/A	N/A
2483.50	26.42	PK	V	24.97	5.41	0.00	56.80	74.00	17.2
2483.50	15.33	AV	V	24.97	5.41	0.00	45.71	54.00	8.29
4960.00	39.05	PK	V	30.02	7.63	27.37	49.33	74.00	24.67
4960.00	29.13	AV	V	30.02	7.63	27.37	39.41	54.00	14.59
7440.00	38.47	PK	V	34.30	9.09	27.22	54.64	74.00	19.36
7440.00	28.64	AV	V	34.30	9.09	27.22	44.81	54.00	9.19
3845.00	37.65	PK	V	27.89	6.64	26.98	45.20	74.00	28.8
3845.00	28.13	AV	V	27.89	6.64	26.98	35.68	54.00	18.32

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

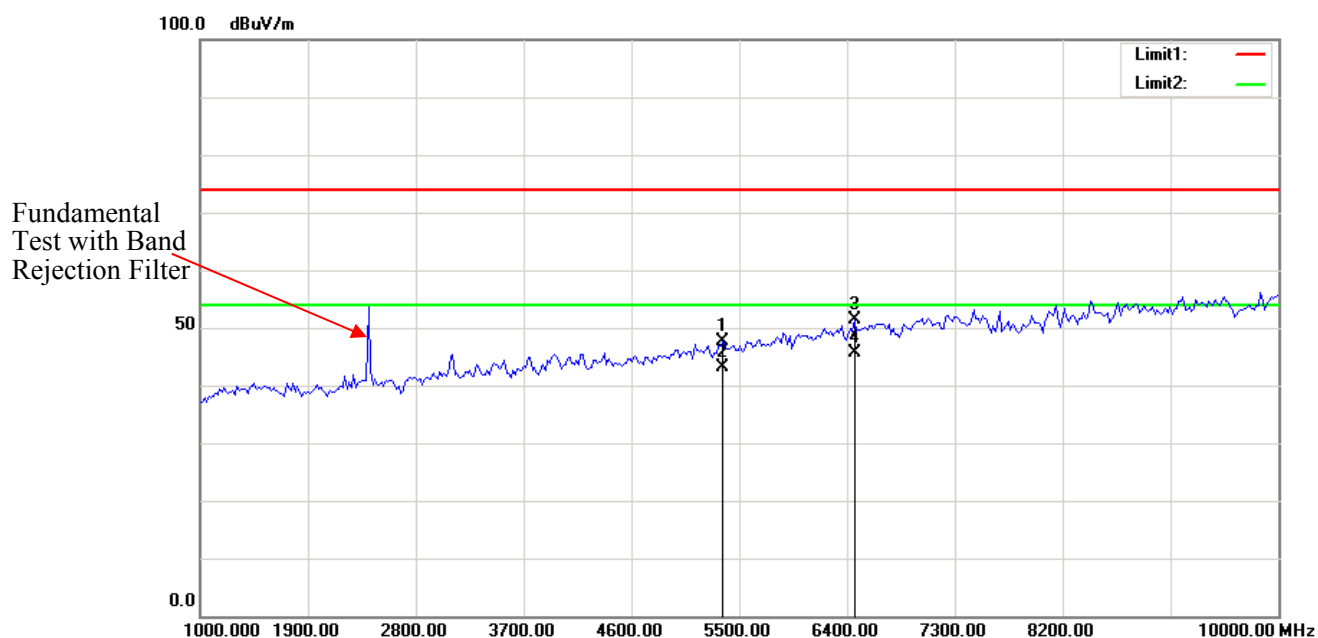
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402.00	59.82	PK	H	24.82	5.41	0.00	90.05	N/A	N/A
2402.00	51.76	AV	H	24.82	5.41	0.00	81.99	N/A	N/A
2402.00	63.86	PK	V	24.82	5.41	0.00	94.09	N/A	N/A
2402.00	55.44	AV	V	24.82	5.41	0.00	85.67	N/A	N/A
2390.00	24.04	PK	V	24.80	5.36	0.00	54.20	74.00	19.80
2390.00	12.05	AV	V	24.80	5.36	0.00	42.21	54.00	11.79
4780.00	37.74	PK	V	29.66	7.24	27.39	47.25	74.00	26.75
4780.00	29.99	AV	V	29.66	7.24	27.39	39.50	54.00	14.50
7206.00	37.49	PK	V	33.93	8.94	27.19	53.17	74.00	20.83
7206.00	27.93	AV	V	33.93	8.94	27.19	43.61	54.00	10.39
3814.00	37.75	PK	V	27.83	6.73	26.93	45.38	74.00	28.62
3814.00	26.16	AV	V	27.83	6.73	26.93	33.79	54.00	20.21
Middle Channel: 2441 MHz									
2441.00	59.18	PK	H	24.89	5.41	0.00	89.48	N/A	N/A
2441.00	49.7	AV	H	24.89	5.41	0.00	80.00	N/A	N/A
2441.00	66.28	PK	V	24.89	5.41	0.00	96.58	N/A	N/A
2441.00	56.22	AV	V	24.89	5.41	0.00	86.52	N/A	N/A
4882.00	39.66	PK	V	29.86	7.59	27.56	49.55	74.00	24.45
4882.00	29.08	AV	V	29.86	7.59	27.56	38.97	54.00	15.03
7323.00	37	PK	V	34.12	9.29	27.26	53.15	74.00	20.85
7323.00	28.03	AV	V	34.12	9.29	27.26	44.18	54.00	9.82
5384.00	37.86	PK	V	30.87	7.99	26.85	49.87	74.00	24.13
5384.00	26.67	AV	V	30.87	7.99	26.85	38.68	54.00	15.32
3725.00	37.44	PK	V	27.65	6.52	26.82	44.79	74.00	29.21
3725.00	28.22	AV	V	27.65	6.52	26.82	35.57	54.00	18.43
High Channel: 2480 MHz									
2480.00	59.61	PK	H	24.96	5.41	0.00	89.98	N/A	N/A
2480.00	50.34	AV	H	24.96	5.41	0.00	80.71	N/A	N/A
2480.00	65.50	PK	V	24.96	5.41	0.00	95.87	N/A	N/A
2480.00	56.71	AV	V	24.96	5.41	0.00	87.08	N/A	N/A
2483.50	26.79	PK	V	24.97	5.41	0.00	57.17	74.00	16.83
2483.50	15.29	AV	V	24.97	5.41	0.00	45.67	54.00	8.33
4960.00	38.78	PK	V	30.02	7.63	27.37	49.06	74.00	24.94
4960.00	28.88	AV	V	30.02	7.63	27.37	39.16	54.00	14.84
7440.00	39.02	PK	V	34.30	9.09	27.22	55.19	74.00	18.81
7440.00	28.89	AV	V	34.30	9.09	27.22	45.06	54.00	8.94
2045.00	37.16	PK	V	24.18	4.88	27.93	38.29	74.00	35.71
2045.00	28.77	AV	V	24.18	4.88	27.93	29.90	54.00	24.1

EDR Mode (8-DPSK):

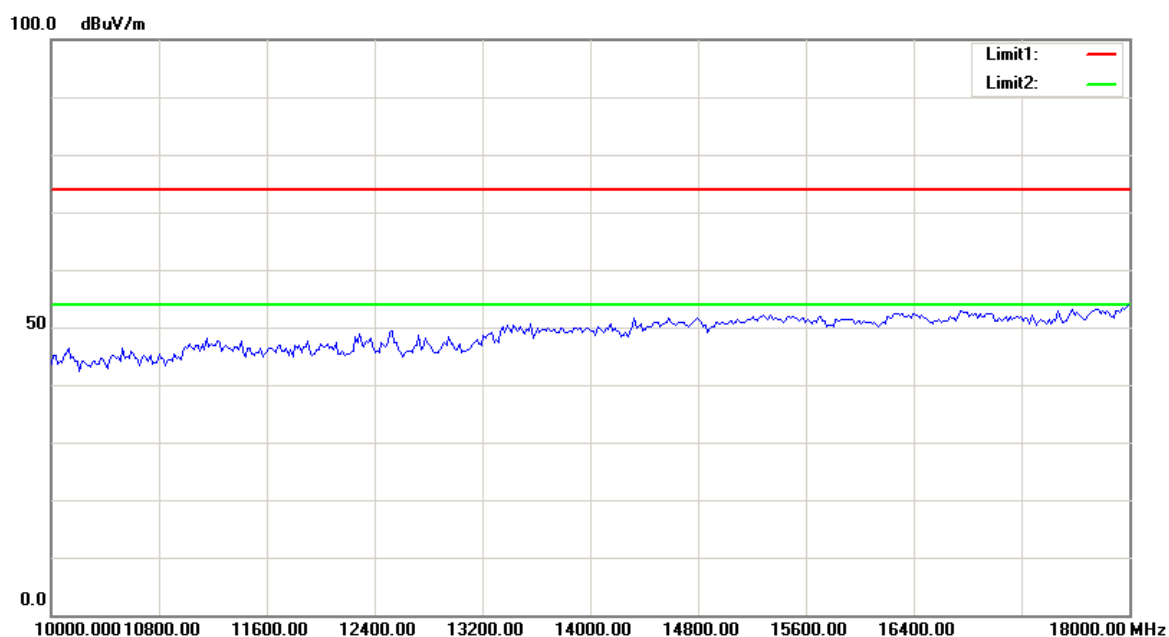
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402.00	60.39	PK	H	24.82	5.41	0.00	90.62	N/A	N/A
2402.00	51.85	AV	H	24.82	5.41	0.00	82.08	N/A	N/A
2402.00	66.62	PK	V	24.82	5.41	0.00	96.85	N/A	N/A
2402.00	59	AV	V	24.82	5.41	0.00	89.23	N/A	N/A
2390.00	24.04	PK	V	24.80	5.36	0.00	54.20	74.00	19.80
2390.00	12.76	AV	V	24.80	5.36	0.00	42.92	54.00	11.08
4780.00	37.96	PK	V	29.66	7.24	27.39	47.47	74.00	26.53
4780.00	28.85	AV	V	29.66	7.24	27.39	38.36	54.00	15.64
7206.00	37.38	PK	V	33.93	8.94	27.19	53.06	74.00	20.94
7206.00	28.91	AV	V	33.93	8.94	27.19	44.59	54.00	9.41
3802.00	38.31	PK	V	27.80	6.76	26.91	45.96	74.00	28.04
3802.00	26.41	AV	V	27.80	6.76	26.91	34.06	54.00	19.94
Middle Channel: 2441 MHz									
2441.00	59.43	PK	H	24.89	5.41	0.00	89.73	N/A	N/A
2441.00	50.76	AV	H	24.89	5.41	0.00	81.06	N/A	N/A
2441.00	67.62	PK	V	24.89	5.41	0.00	97.92	N/A	N/A
2441.00	57.02	AV	V	24.89	5.41	0.00	87.32	N/A	N/A
4882.00	39.44	PK	V	29.86	7.59	27.56	49.33	74.00	24.67
4882.00	29.56	AV	V	29.86	7.59	27.56	39.45	54.00	14.55
7323.00	37.72	PK	V	34.12	9.29	27.26	53.87	74.00	20.13
7323.00	28.04	AV	V	34.12	9.29	27.26	44.19	54.00	9.81
3948.00	37.3	PK	V	28.10	6.68	26.99	45.09	74.00	28.91
3948.00	26.6	AV	V	28.10	6.68	26.99	34.39	54.00	19.61
4834.00	36.97	PK	V	29.77	7.38	27.44	46.68	74.00	27.32
4834.00	29.01	AV	V	29.77	7.38	27.44	38.72	54.00	15.28
High Channel: 2480 MHz									
2480.00	59.26	PK	H	24.96	5.41	0.00	89.63	N/A	N/A
2480.00	49.39	AV	H	24.96	5.41	0.00	79.76	N/A	N/A
2480.00	66.03	PK	V	24.96	5.41	0.00	96.40	N/A	N/A
2480.00	55.89	AV	V	24.96	5.41	0.00	86.26	N/A	N/A
2483.50	26.52	PK	V	24.97	5.41	0.00	56.90	74.00	17.1
2483.50	15.02	AV	V	24.97	5.41	0.00	45.40	54.00	8.6
4960.00	38.76	PK	V	30.02	7.63	27.37	49.04	74.00	24.96
4960.00	29.58	AV	V	30.02	7.63	27.37	39.86	54.00	14.14
7440.00	38.43	PK	V	34.30	9.09	27.22	54.60	74.00	19.4
7440.00	28.53	AV	V	34.30	9.09	27.22	44.70	54.00	9.3
6821.00	38.13	PK	V	33.35	8.87	26.78	53.57	74.00	20.43
6821.00	28.54	AV	V	33.35	8.87	26.78	43.98	54.00	10.02

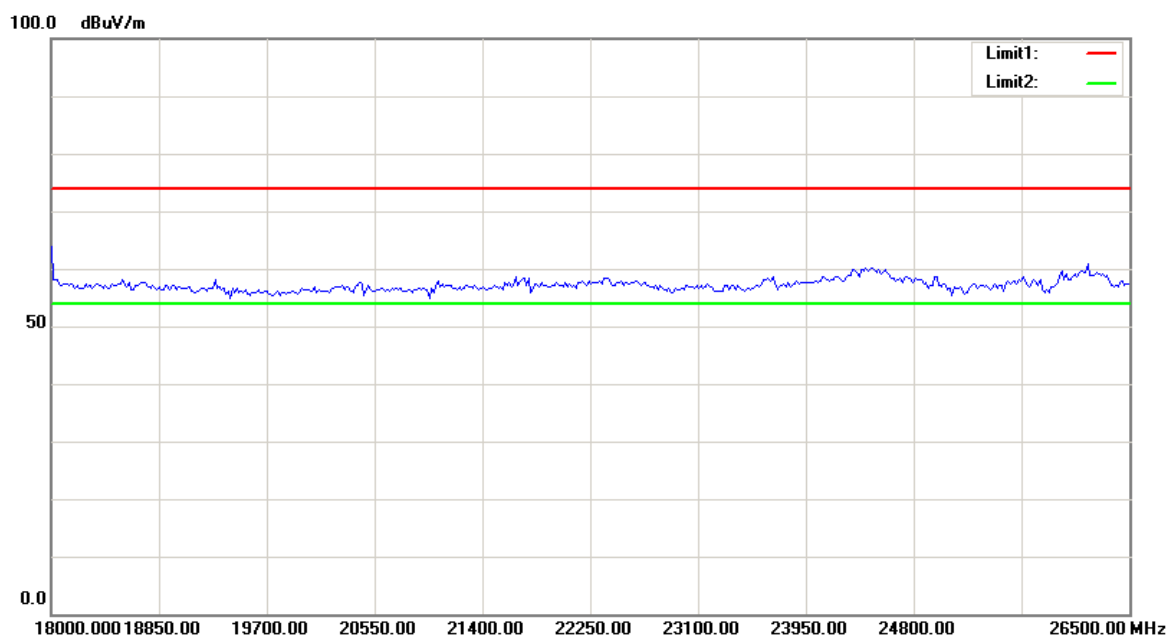
Test Plots(8-DPSK middle channel was the worst)

Horizontal:

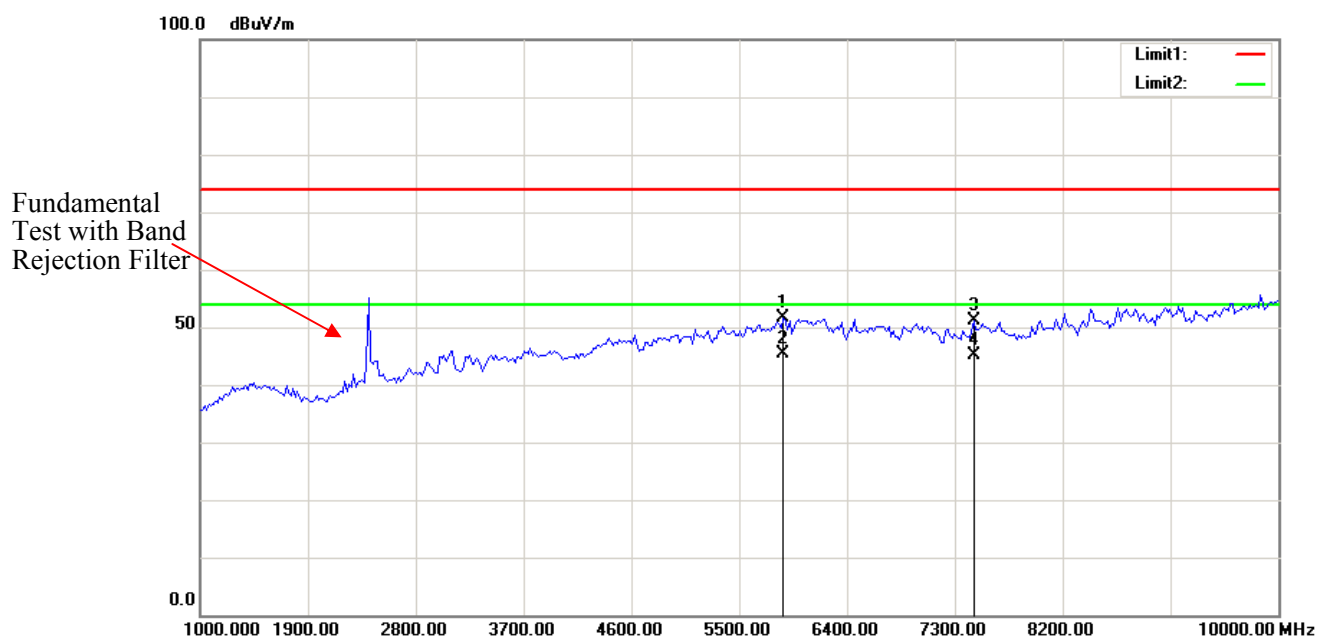


Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5364.730	35.26	peak	12.39	47.65	74.00	26.35
5364.730	30.81	AVG	12.39	43.20	54.00	10.80
6464.930	35.83	peak	15.58	51.41	74.00	22.59
6464.930	30.02	AVG	15.58	45.60	54.00	8.40

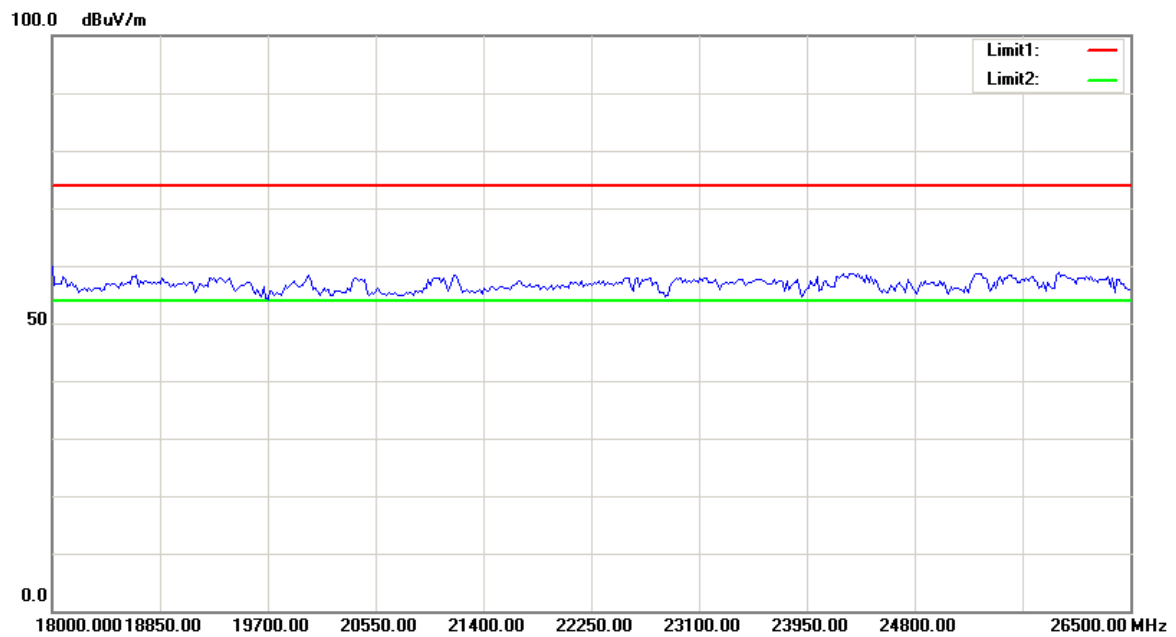
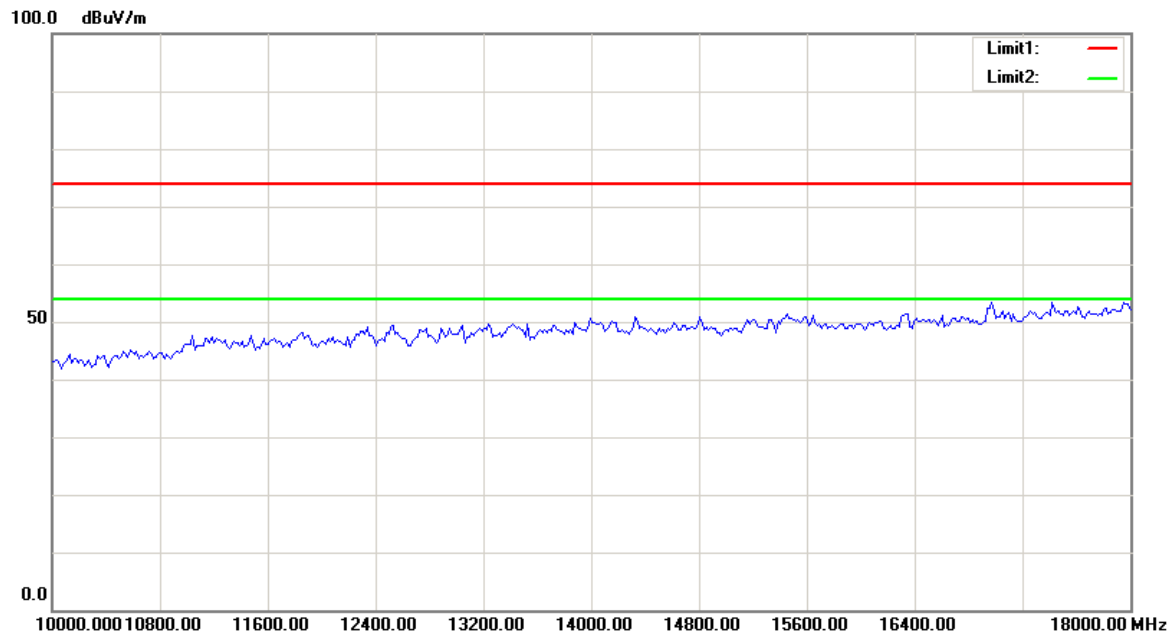




Vertical:



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5869.739	37.51	peak	14.05	51.56	74.00	22.44
5869.739	31.25	AVG	14.05	45.30	54.00	8.70
7456.914	33.96	peak	17.05	51.01	74.00	22.99
7456.914	28.15	AVG	17.05	45.20	54.00	8.80



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	EMI Test Receiver	ESCI	101121	2017/3/2	2018/3/2
N/A	Coaxial Cable	C-SJ00-0010	C0010/01	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:	26.8 °C
Relative Humidity:	51 %
ATM Pressure:	101.1 kPa

* The testing was performed by Swim Lv on 2017-11-08.

Test Result: Compliance.

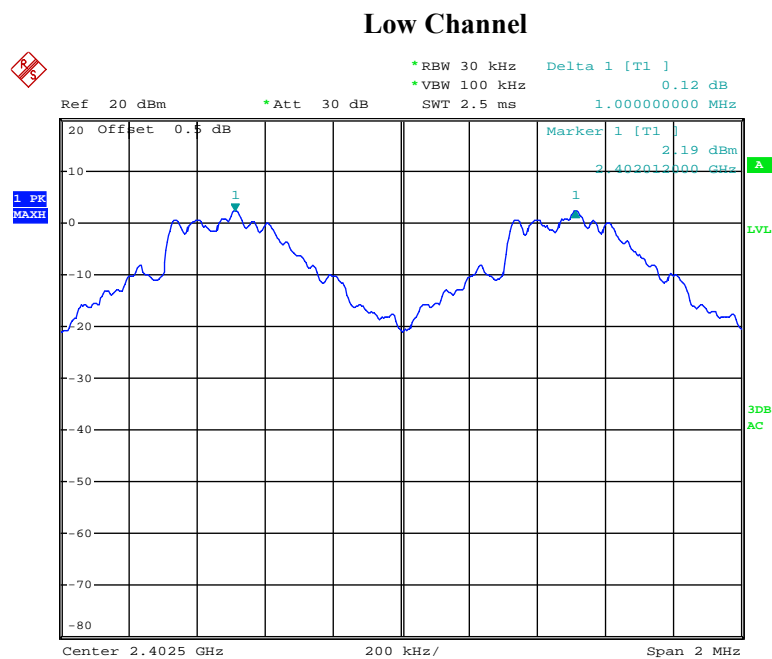
Please refer to following tables and plots

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
BDR (GFSK)	Low	2402	1.000	0.62
	Middle	2441	1.000	0.59
	High	2480	1.004	0.62
EDR ($\pi/4$ -DQPSK)	Low	2402	1.000	0.85
	Middle	2441	1.000	0.85
	High	2480	1.004	0.85
EDR (8DPSK)	Low	2402	1.000	0.81
	Middle	2441	1.000	0.82
	High	2480	1.000	0.83

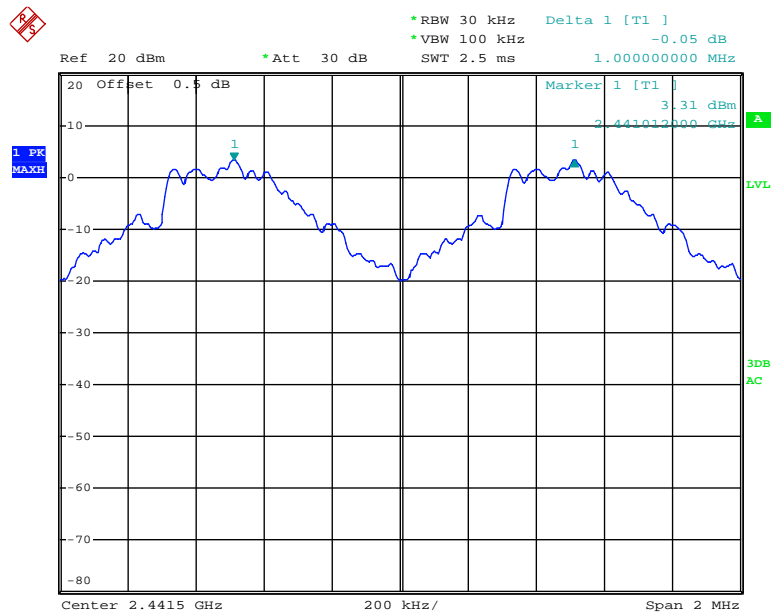
Note: Limit= $(2/3) \times 20\text{dB bandwidth}$

BDR Mode (GFSK):



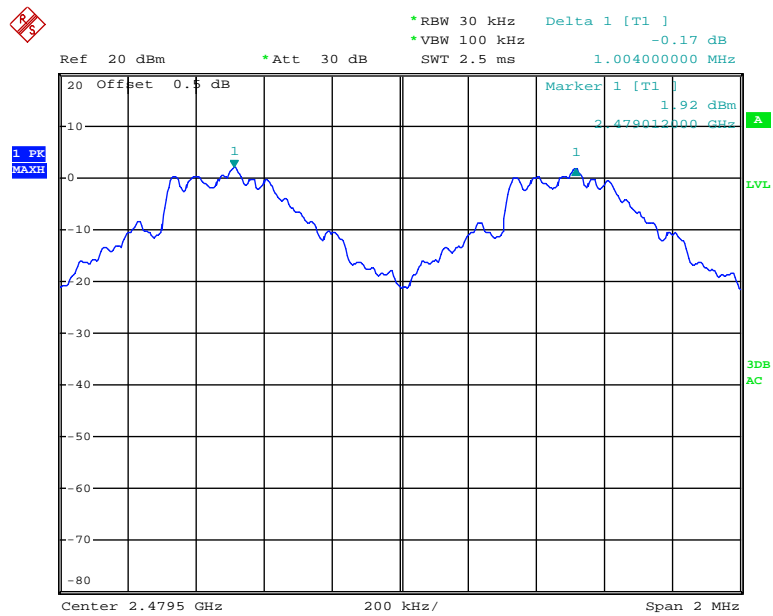
Date: 8.NOV.2017 13:38:45

Middle Channel

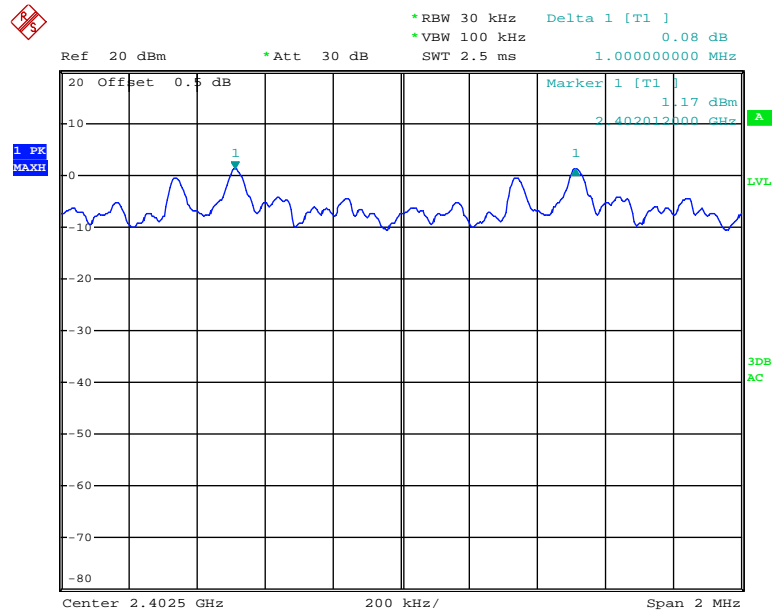


Date: 8.NOV.2017 13:41:10

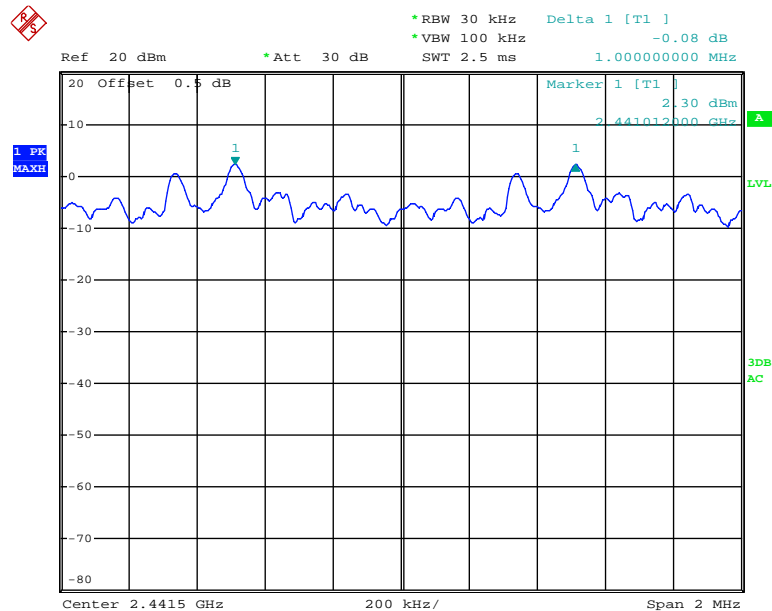
High Channel



Date: 8.NOV.2017 13:51:01

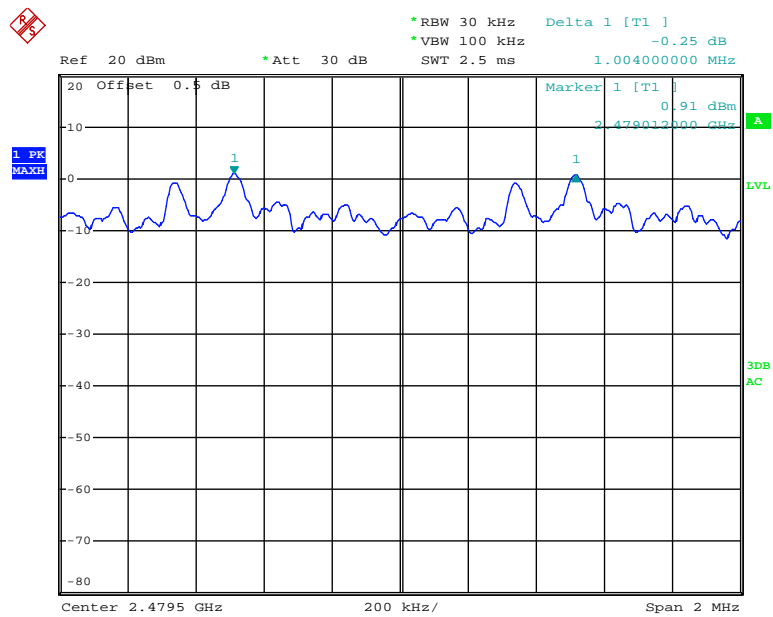
*EDR Mode ($\pi/4$ -DQPSK):***Low Channel**

Date: 8.NOV.2017 13:54:34

Middle Channel

Date: 8.NOV.2017 13:53:02

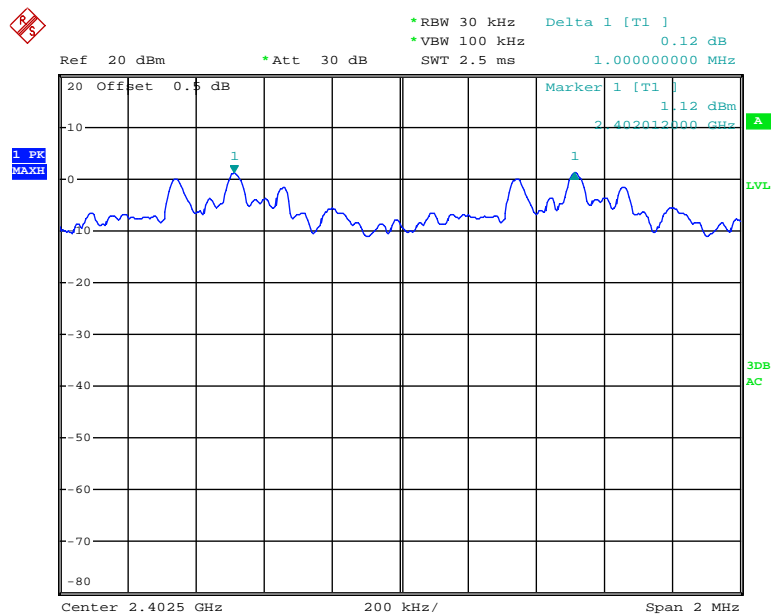
High Channel



Date: 8.NOV.2017 13:48:04

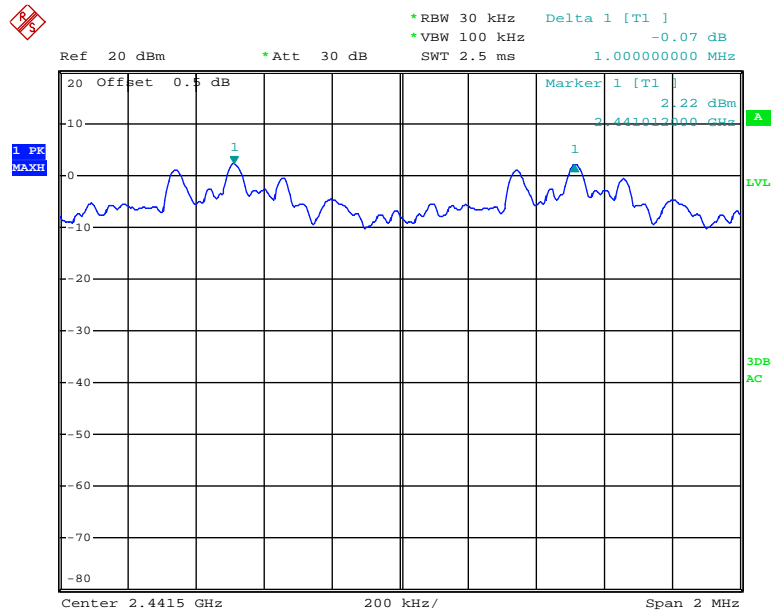
EDR Mode (8-DPSK):

Low Channel



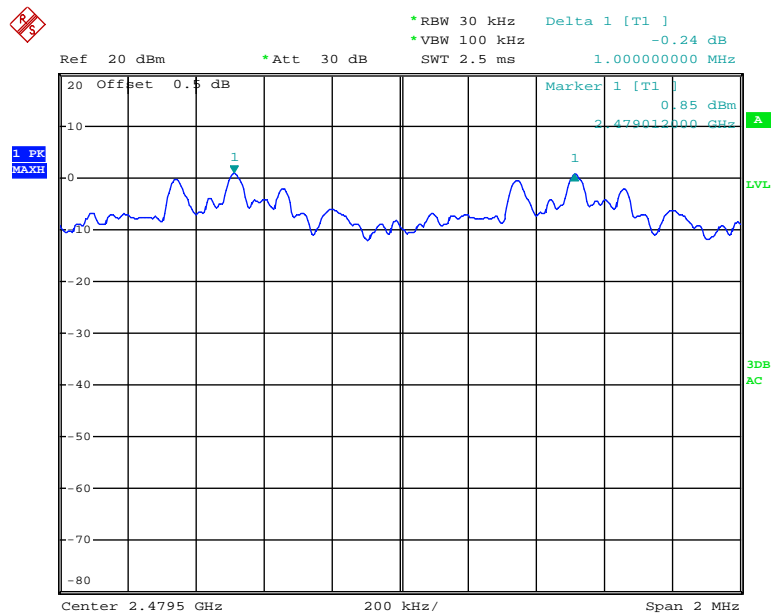
Date: 8.NOV.2017 13:55:45

Middle Channel



Date: 8.NOV.2017 13:56:49

High Channel



Date: 8.NOV.2017 13:57:46

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	EMI Test Receiver	ESCI	101121	2017/3/2	2018/3/2
N/A	Coaxial Cable	C-SJ00-0010	C0010/01	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:	26.8 °C
Relative Humidity:	51 %
ATM Pressure:	101.1 kPa

* The testing was performed by Swim Lv on 2017-11-08.

Test Result: Compliance.

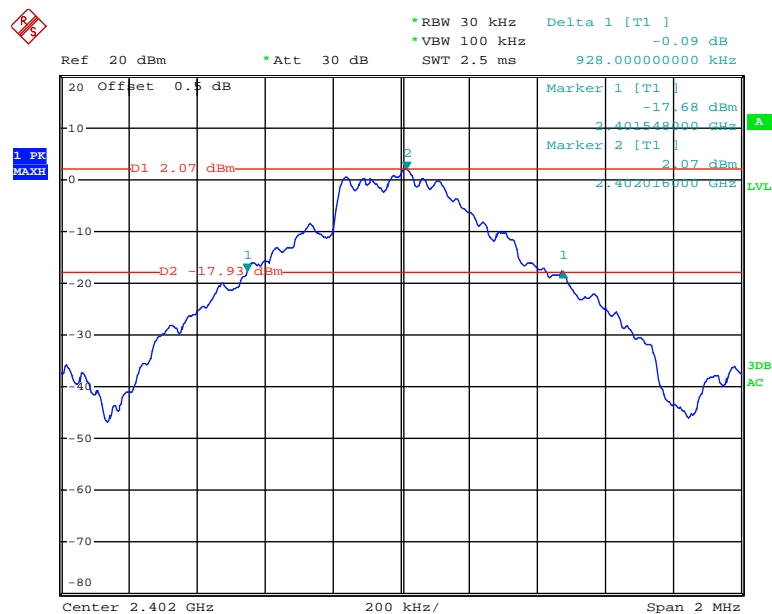
Please refer to following tables and plots

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.93
	Middle	2441	0.88
	High	2480	0.93
EDR Mode ($\pi/4$ -DQPSK)	Low	2402	1.27
	Middle	2441	1.27
	High	2480	1.27
EDR Mode (8-DPSK)	Low	2402	1.22
	Middle	2441	1.23
	High	2480	1.25

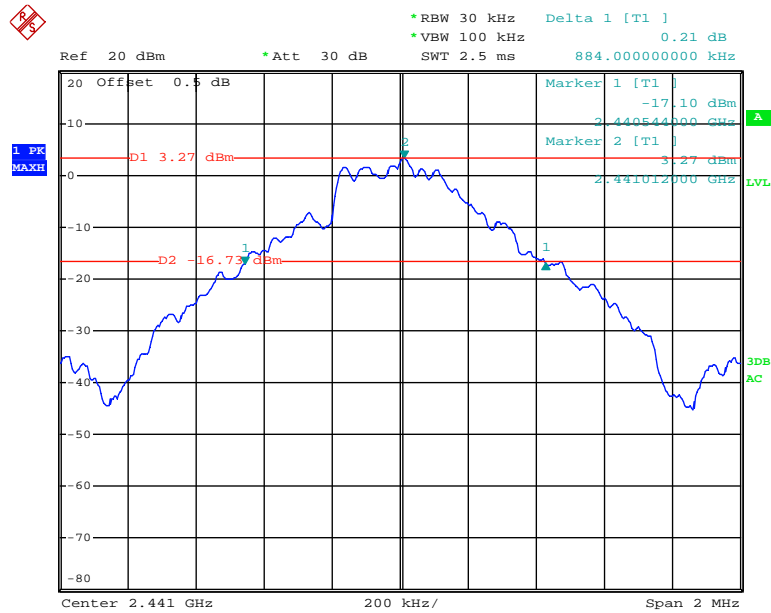
BDR Mode (GFSK):

Low Channel



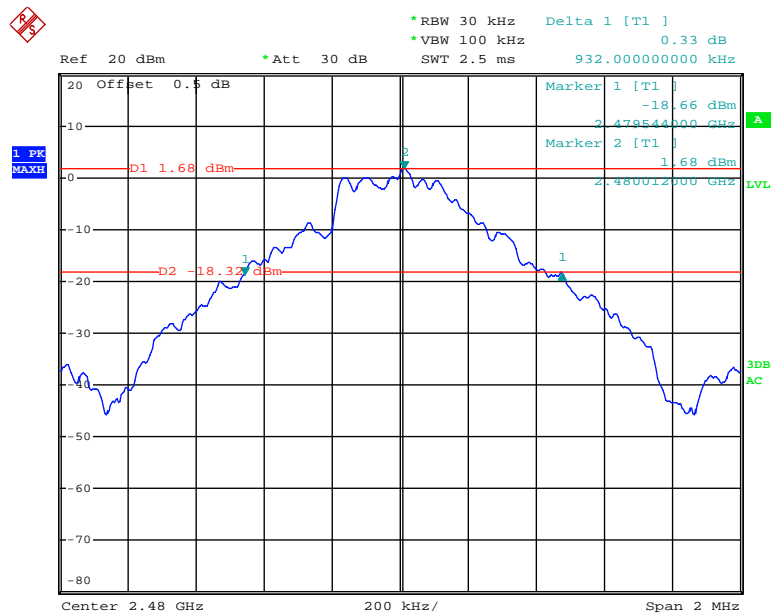
Date: 8.NOV.2017 13:00:29

Middle Channel

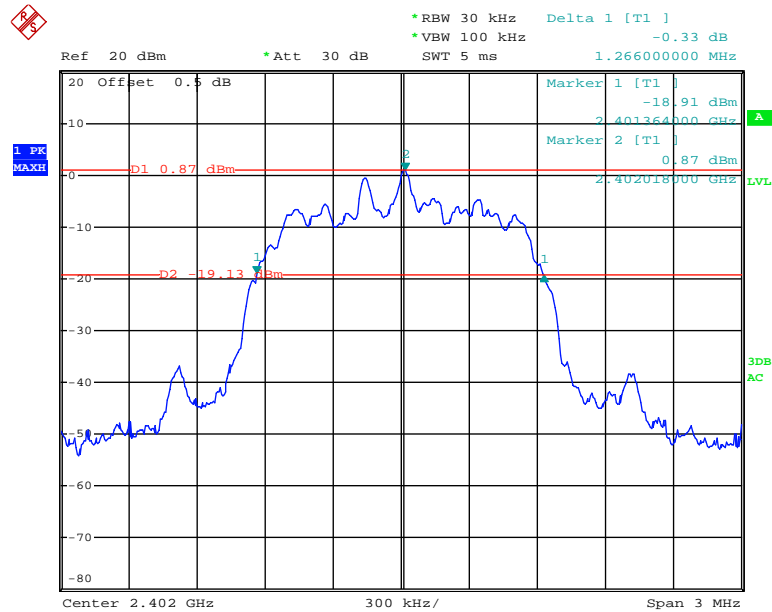


Date: 8.NOV.2017 13:03:00

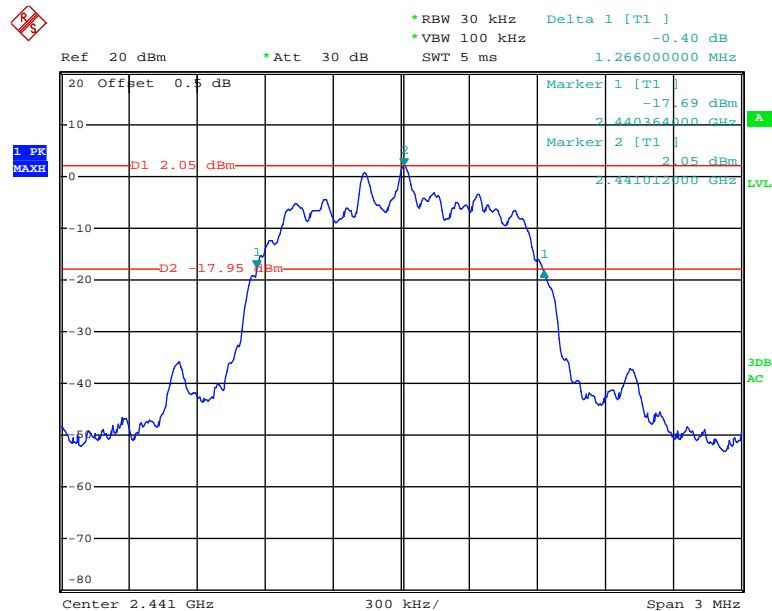
High Channel



Date: 8.NOV.2017 13:05:04

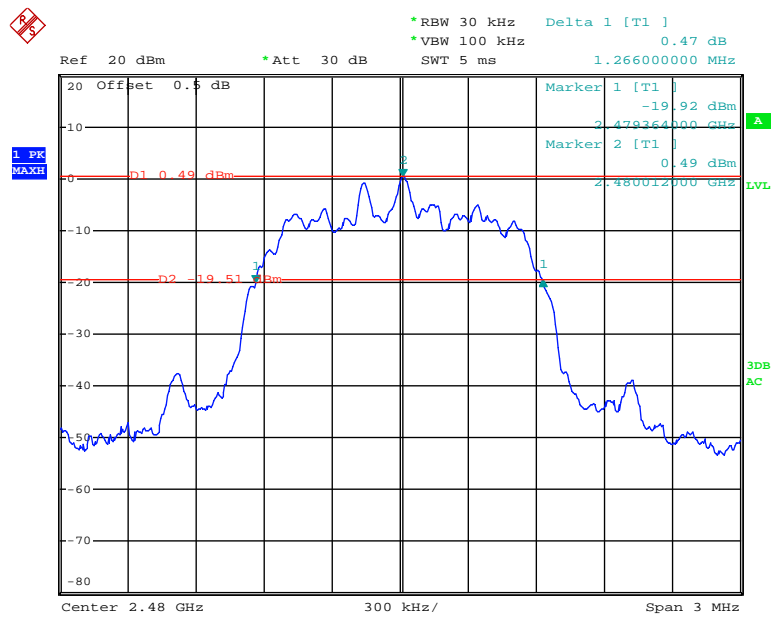
*EDR Mode ($\pi/4$ -DQPSK):***Low Channel**

Date: 8.NOV.2017 13:09:03

Middle Channel

Date: 8.NOV.2017 13:08:06

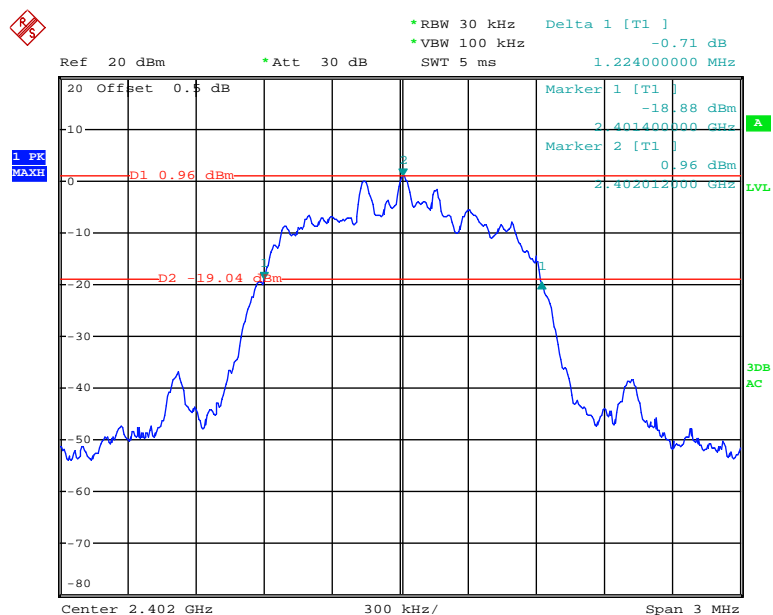
High Channel



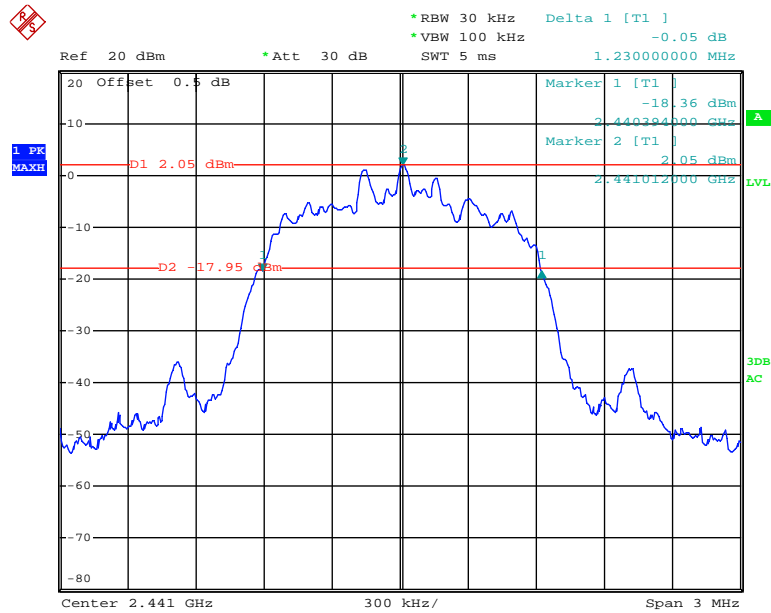
Date: 8.NOV.2017 13:06:37

EDR Mode (8-DPSK):

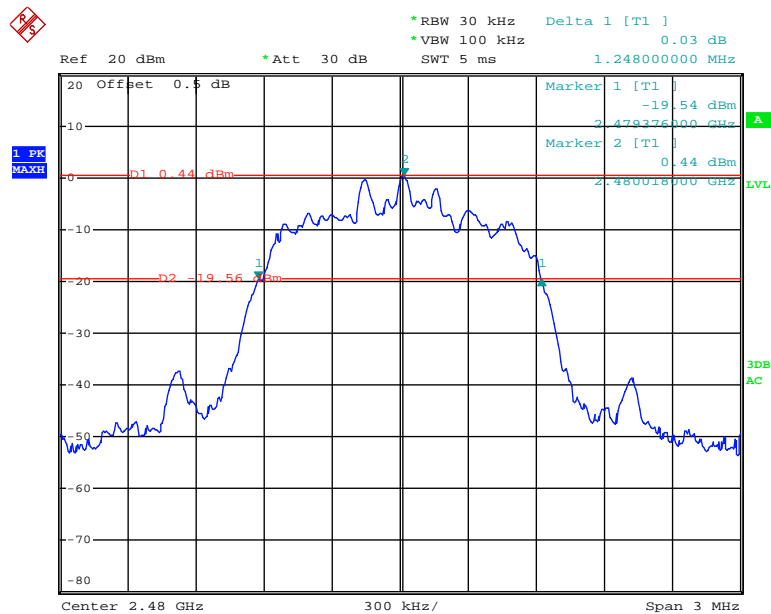
Low Channel



Date: 8.NOV.2017 13:10:25

Middle Channel

Date: 8.NOV.2017 13:11:54

High Channel

Date: 8.NOV.2017 13:12:51

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	EMI Test Receiver	ESCI	101121	2017/3/2	2018/3/2
N/A	Coaxial Cable	C-SJ00-0010	C0010/01	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:	26.8 °C
Relative Humidity:	51 %
ATM Pressure:	101.1 kPa

* The testing was performed by Swim Lv on 2017-11-08.

Test Result: Compliance.

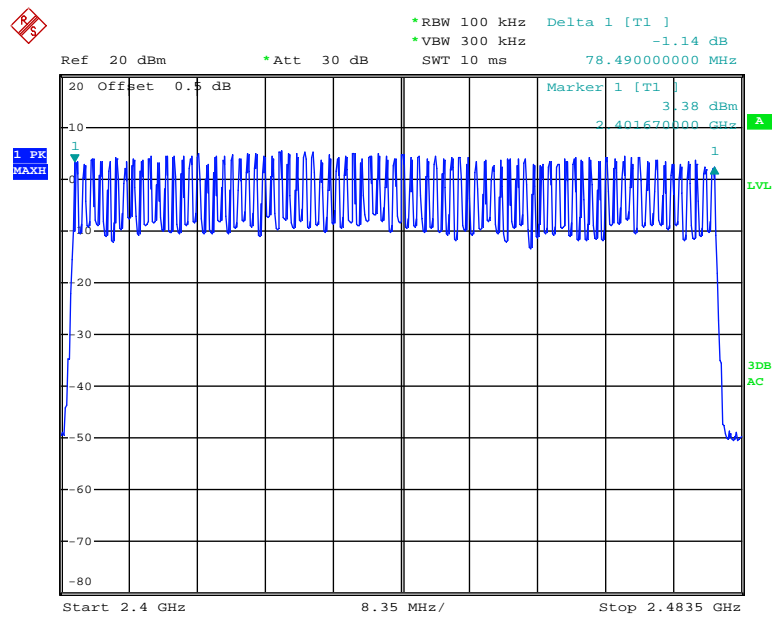
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

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

Number of Hopping Channels

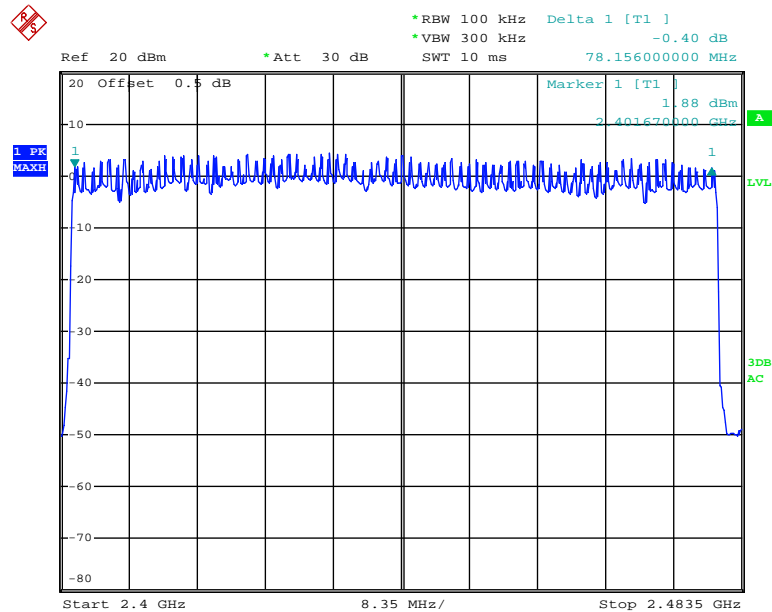


Date: 8.NOV.2017 14:07:05

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

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

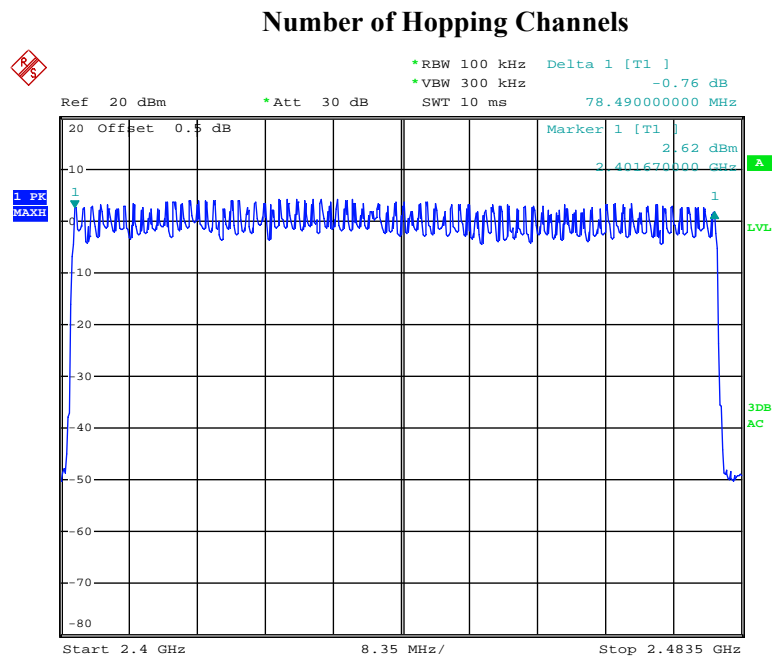
Number of Hopping Channels



Date: 8.NOV.2017 13:33:17

EDR Mode (8-DPSK):

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



Date: 8.NOV.2017 14:00:50

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	EMI Test Receiver	ESCI	101121	2017/3/2	2018/3/2
N/A	Coaxial Cable	C-SJ00-0010	C0010/01	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:	26.8 °C
Relative Humidity:	51 %
ATM Pressure:	101.1 kPa

* The testing was performed by Swim Lv on 2017-11-08.

Test Result: Compliance.

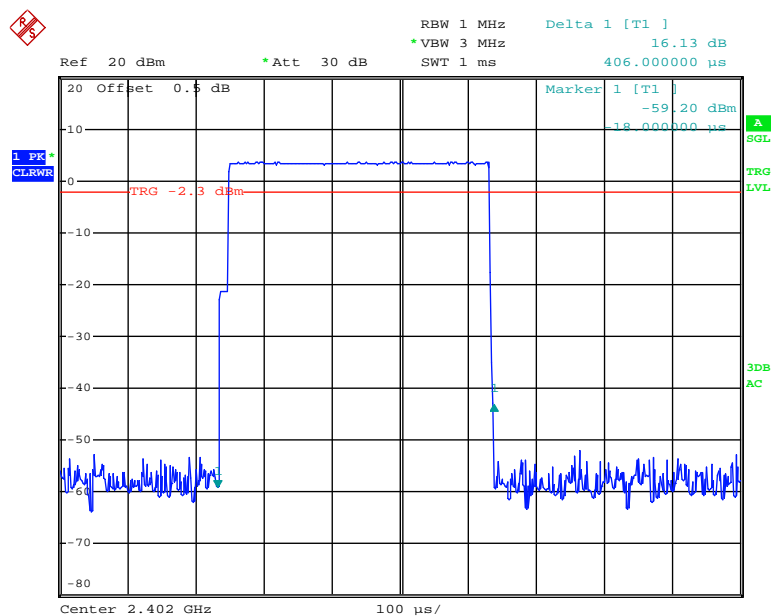
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

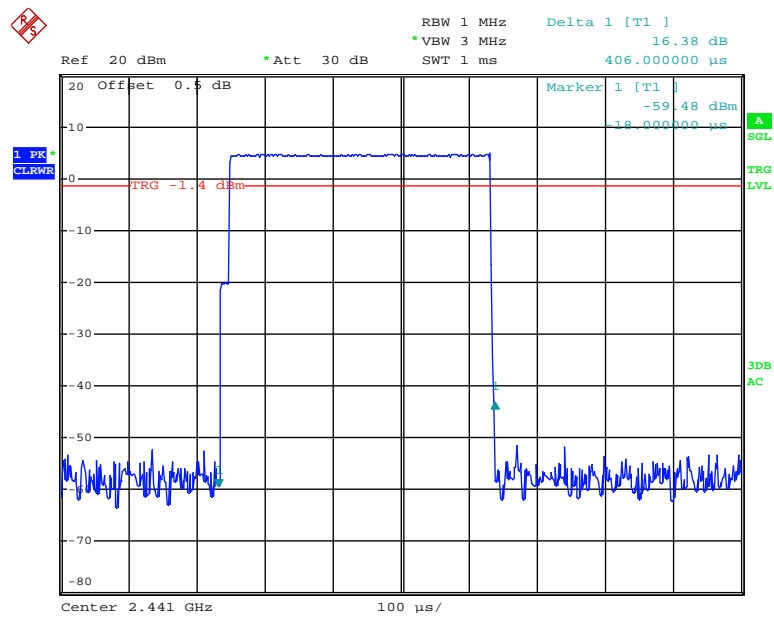
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.406	0.130	0.4	Compliance
	Middle	0.406	0.130	0.4	Compliance
	High	0.408	0.131	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/2/79) \times 31.6 s				
DH3	Low	1.674	0.268	0.4	Compliance
	Middle	1.686	0.270	0.4	Compliance
	High	1.680	0.269	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s				
DH5	Low	2.940	0.314	0.4	Compliance
	Middle	2.930	0.313	0.4	Compliance
	High	2.930	0.313	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/6/79) \times 31.6 s				

DH1: Low Channel



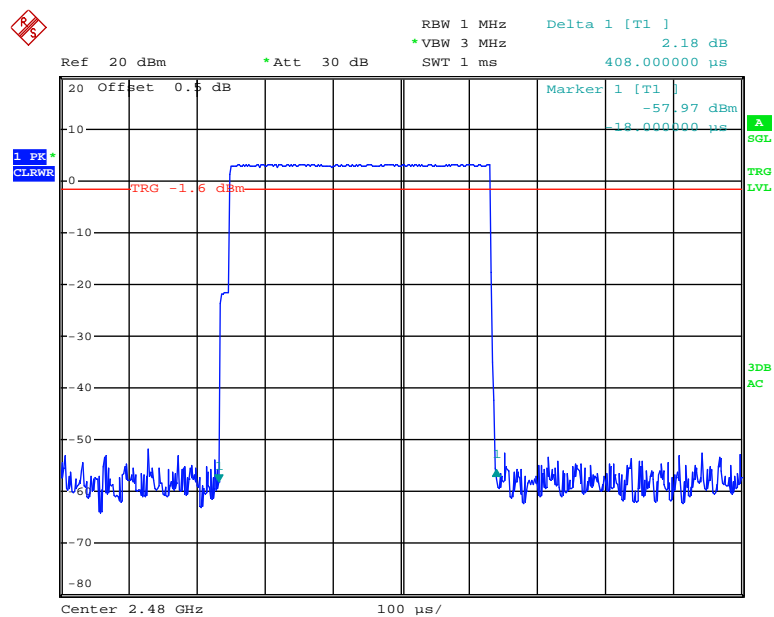
Date: 8.NOV.2017 14:07:43

DH1: Middle Channel



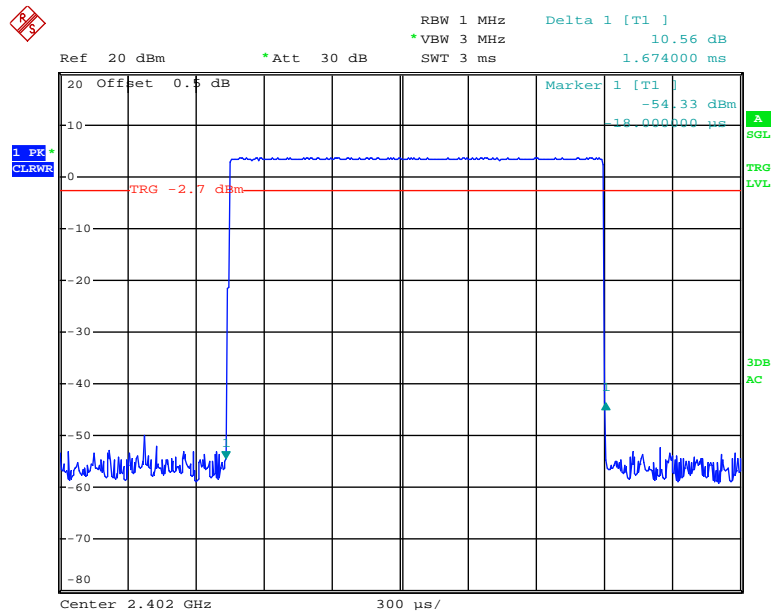
Date: 8.NOV.2017 14:07:49

DH1: High Channel



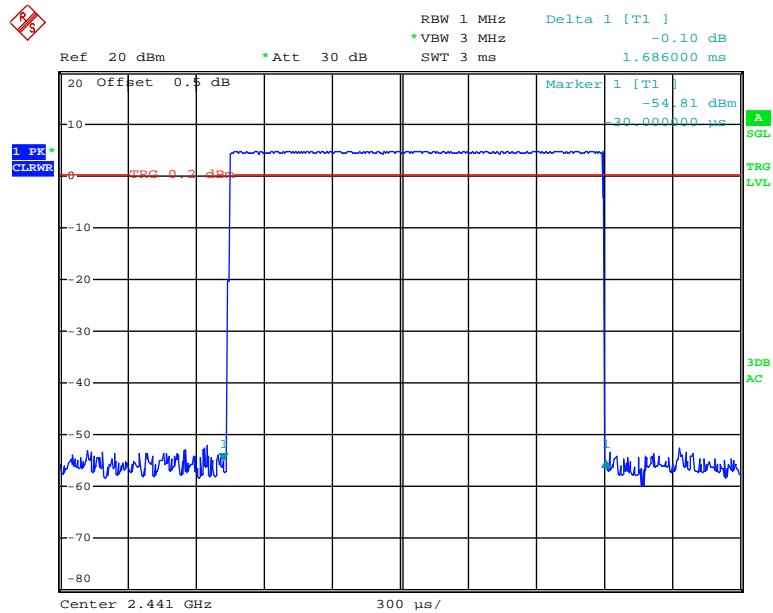
Date: 8.NOV.2017 14:07:56

DH3: Low Channel



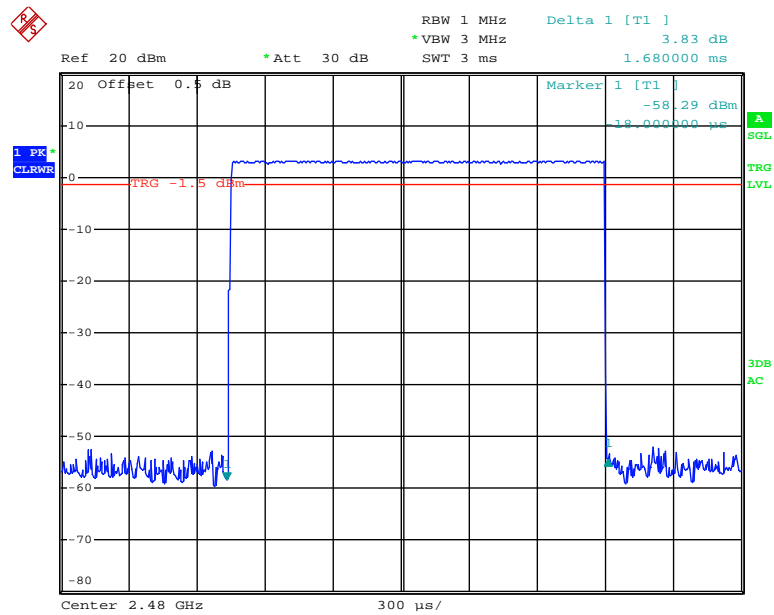
Date: 8.NOV.2017 14:10:32

DH3: Middle Channel



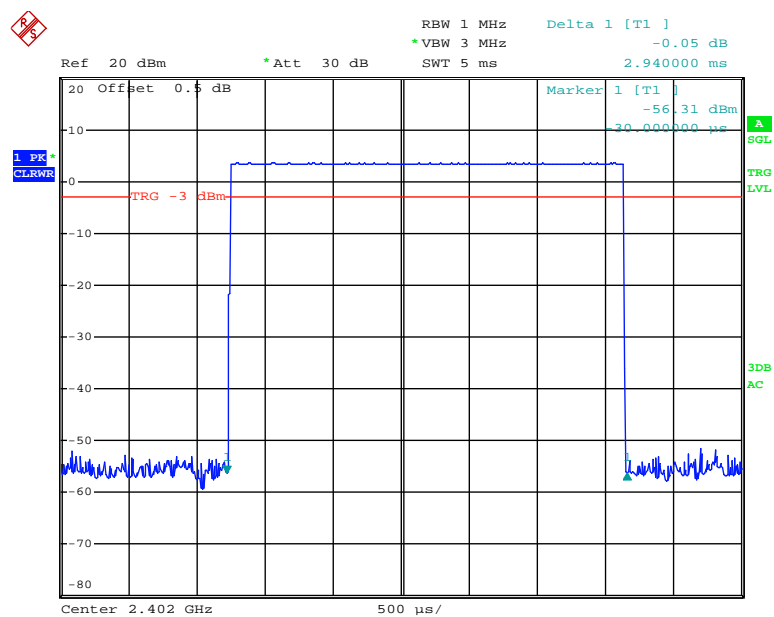
Date: 8.NOV.2017 14:11:37

DH3: High Channel



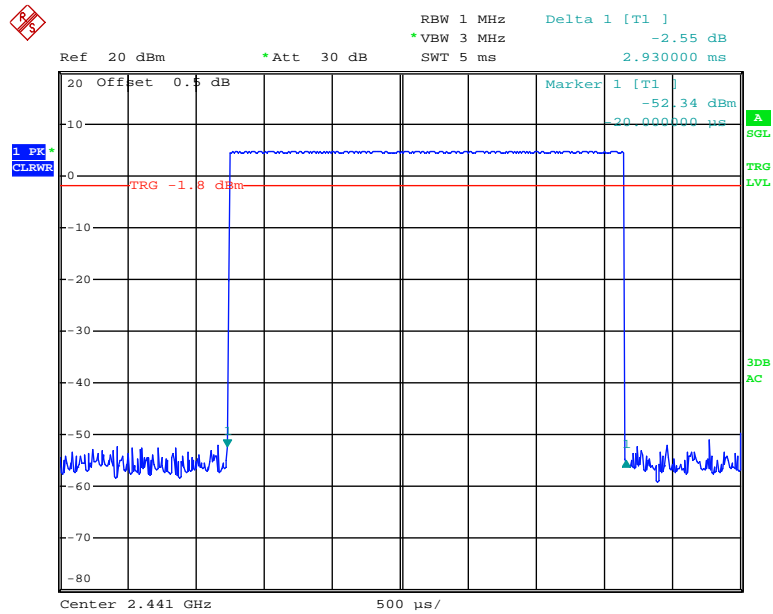
Date: 8.NOV.2017 14:11:44

DH5: Low Channel



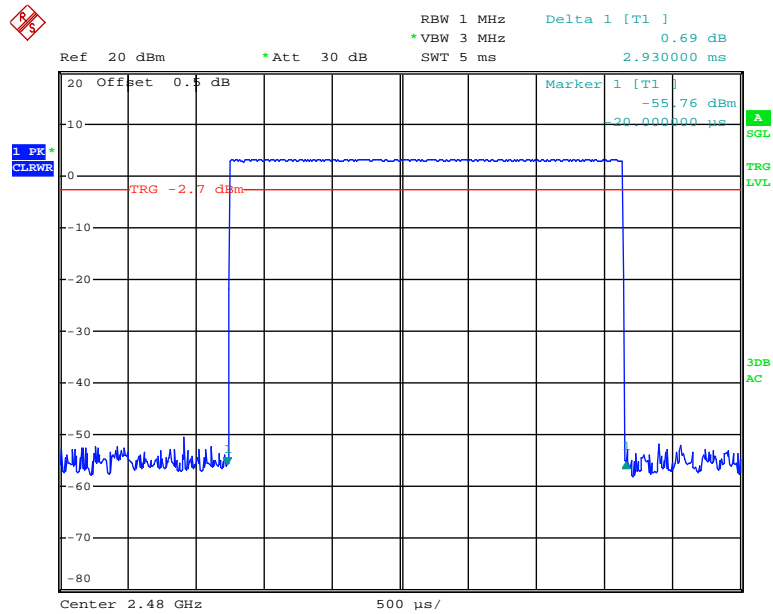
Date: 8.NOV.2017 14:13:11

DH5: Middle Channel



Date: 8.NOV.2017 14:13:18

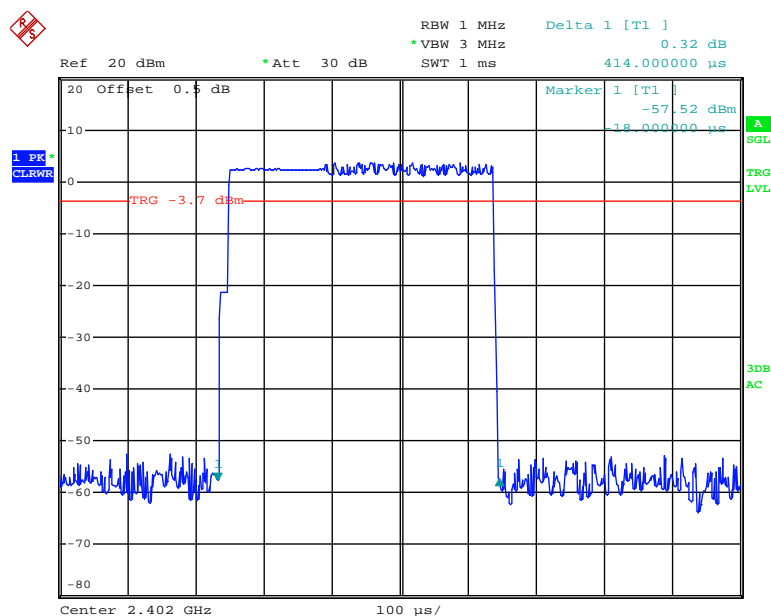
DH5: High Channel



Date: 8.NOV.2017 14:13:24

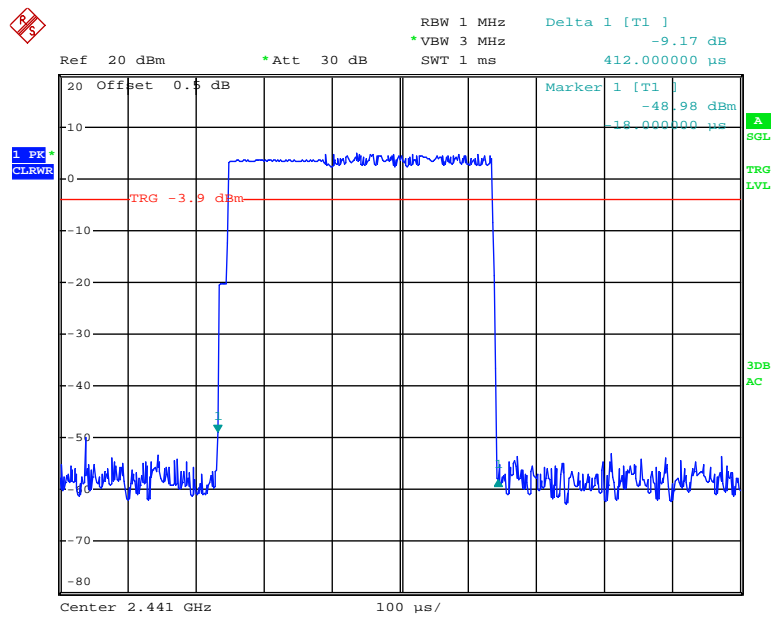
EDR Mode ($\pi/4$ -DQPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.414	0.132	0.4	Compliance
	Middle	0.412	0.132	0.4	Compliance
	High	0.414	0.132	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/2/79) \times 31.6 s				
2DH3	Low	1.674	0.268	0.4	Compliance
	Middle	1.680	0.269	0.4	Compliance
	High	1.680	0.269	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s				
2DH5	Low	2.940	0.314	0.4	Compliance
	Middle	2.940	0.314	0.4	Compliance
	High	2.930	0.313	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/6/79) \times 31.6 s				

2DH1: Low Channel

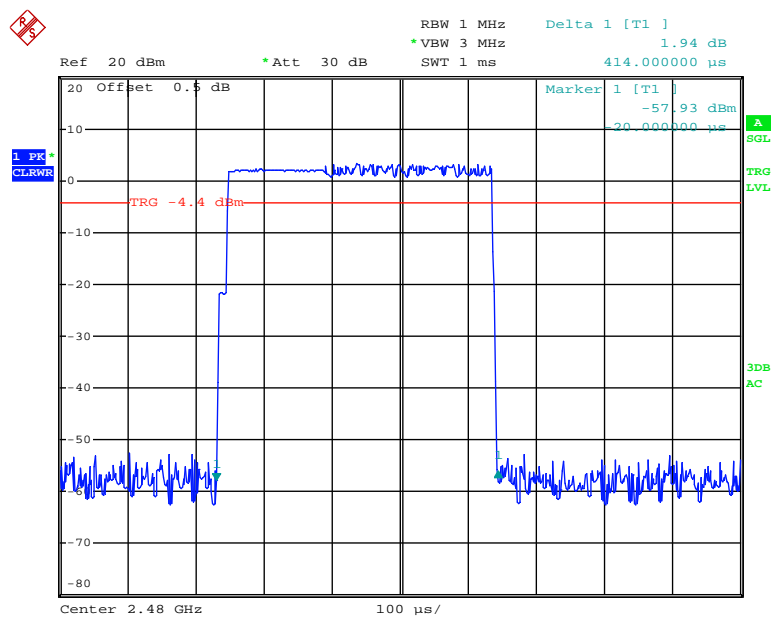
Date: 8.NOV.2017 14:14:02

2DH1: Middle Channel



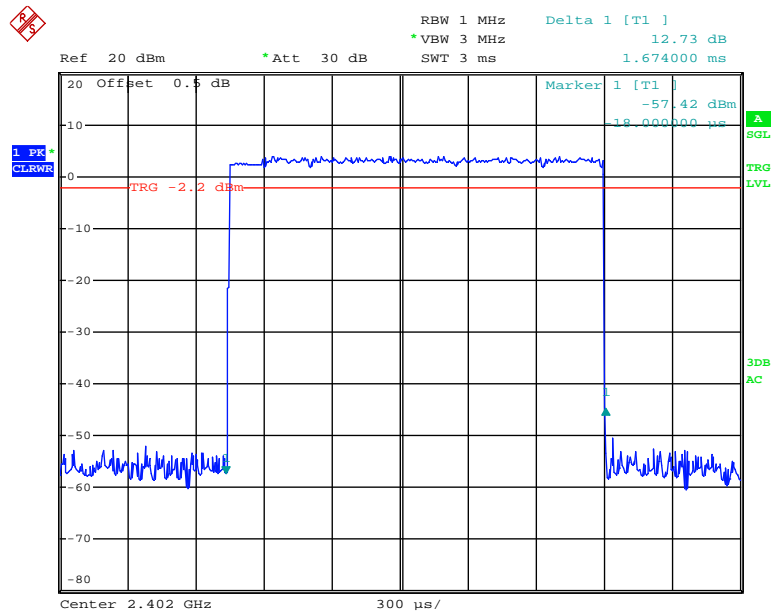
Date: 8.NOV.2017 14:14:09

2DH1: High Channel



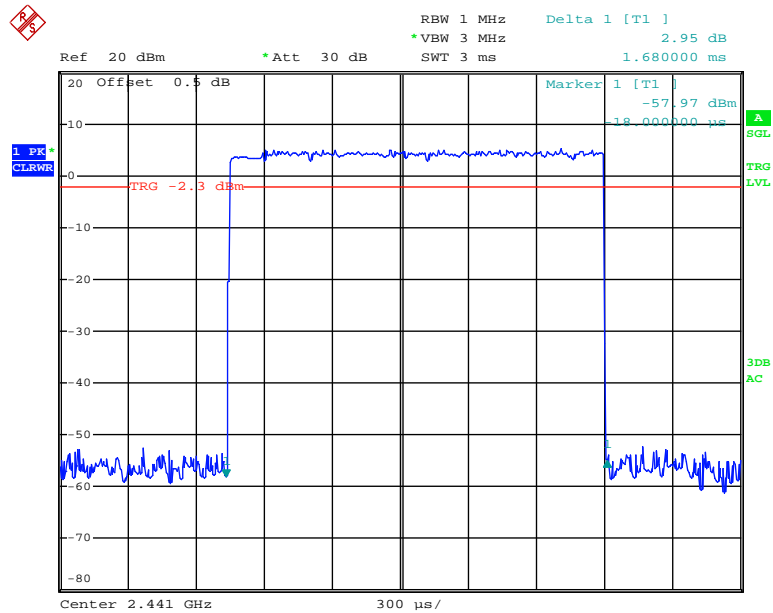
Date: 8.NOV.2017 14:14:35

2DH3: Low Channel



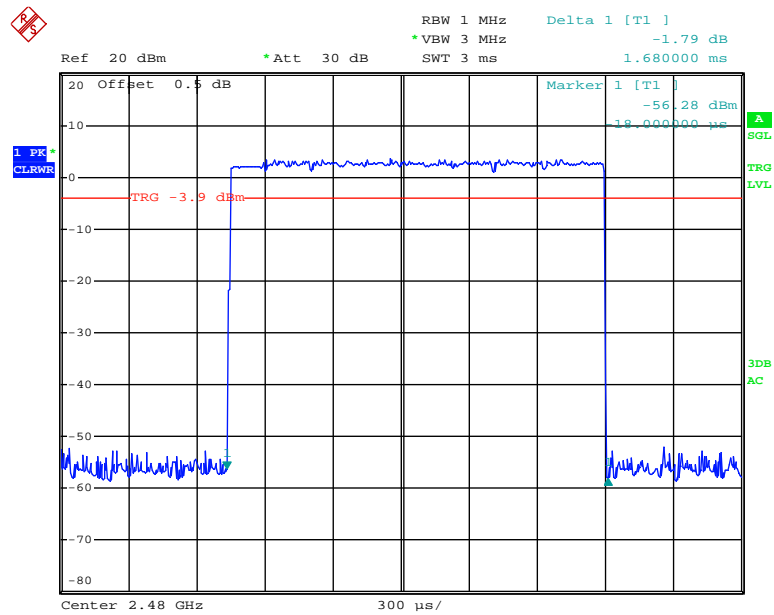
Date: 8.NOV.2017 14:15:11

2DH3: Middle Channel



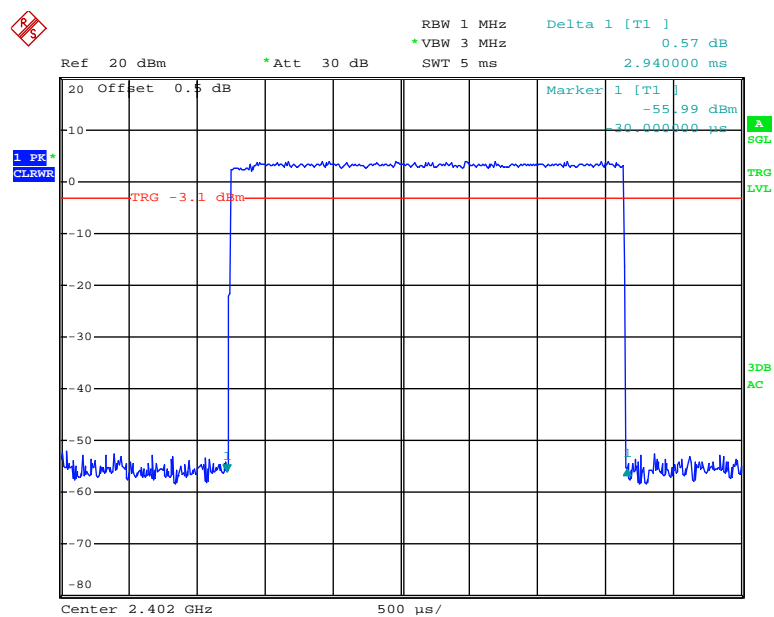
Date: 8.NOV.2017 14:15:17

2DH3: High Channel



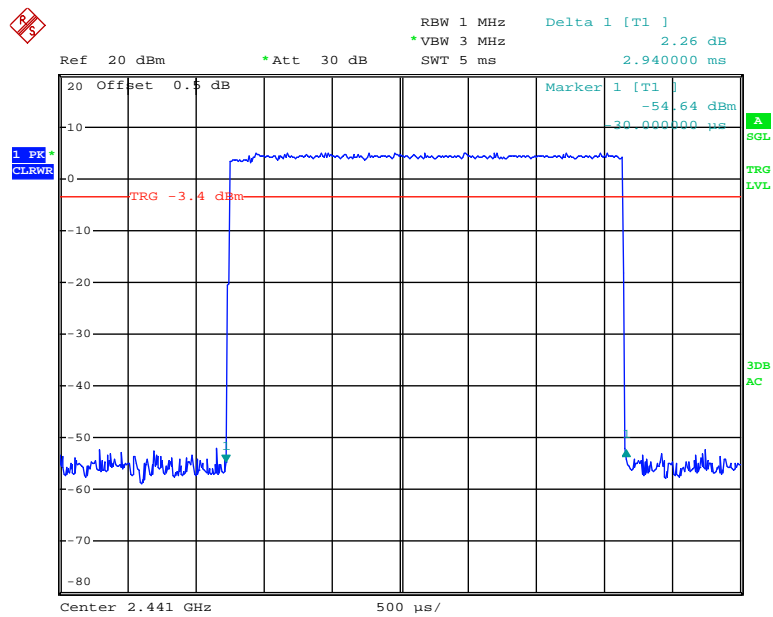
Date: 8.NOV.2017 14:15:47

2DH5: Low Channel



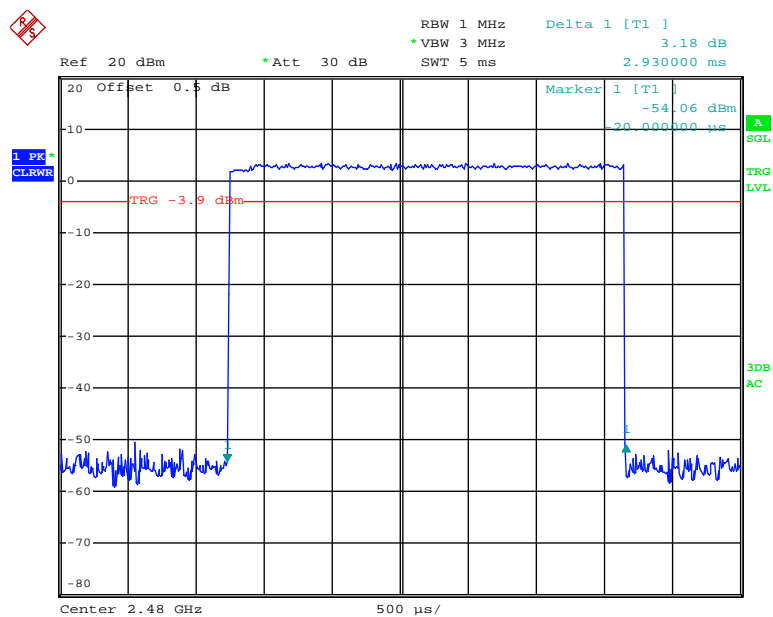
Date: 8.NOV.2017 14:17:04

2DH5: Middle Channel



Date: 8.NOV.2017 14:17:29

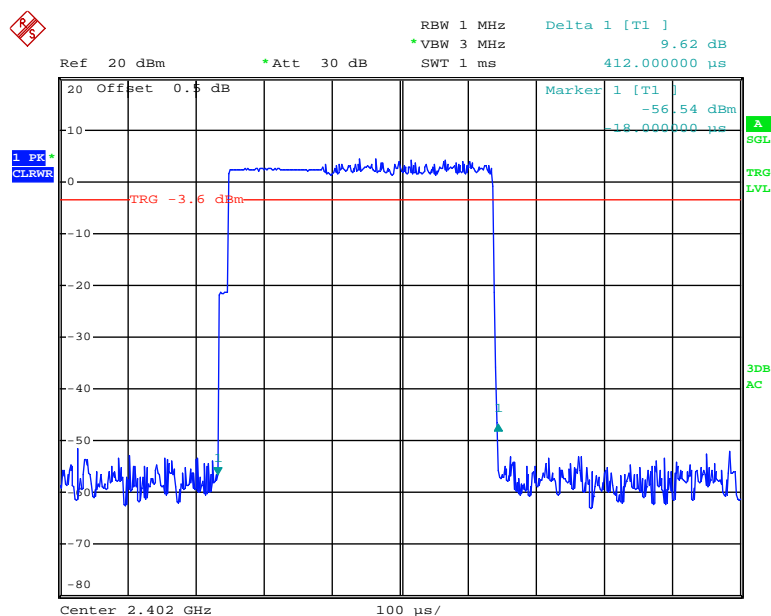
2DH5: High Channel



Date: 8.NOV.2017 14:17:36

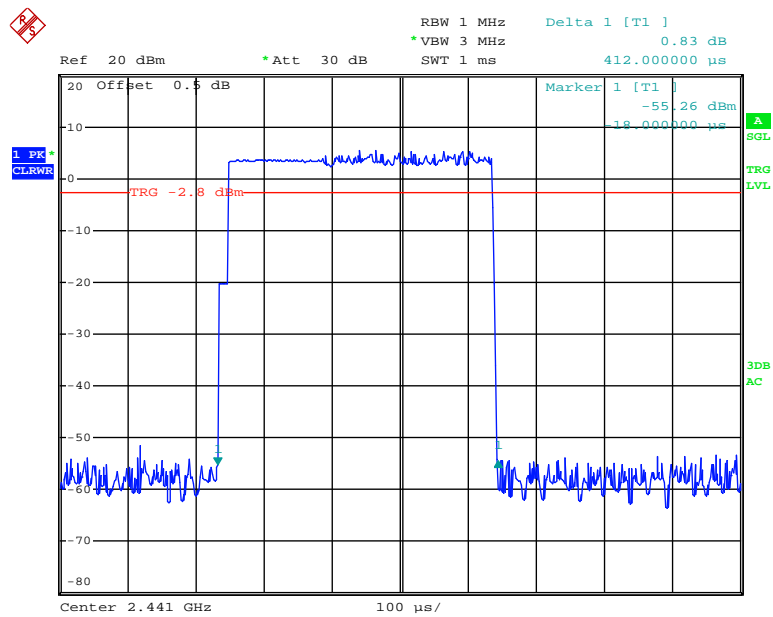
EDR Mode (8-DPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
3DH1	Low	0.412	0.132	0.4	Compliance
	Middle	0.412	0.132	0.4	Compliance
	High	0.414	0.132	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) × 31.6 s				
3DH3	Low	1.680	0.269	0.4	Compliance
	Middle	1.680	0.269	0.4	Compliance
	High	1.680	0.269	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) × 31.6 s				
3DH5	Low	2.940	0.314	0.4	Compliance
	Middle	2.940	0.314	0.4	Compliance
	High	2.930	0.313	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) × 31.6 s				

3DH1: Low Channel

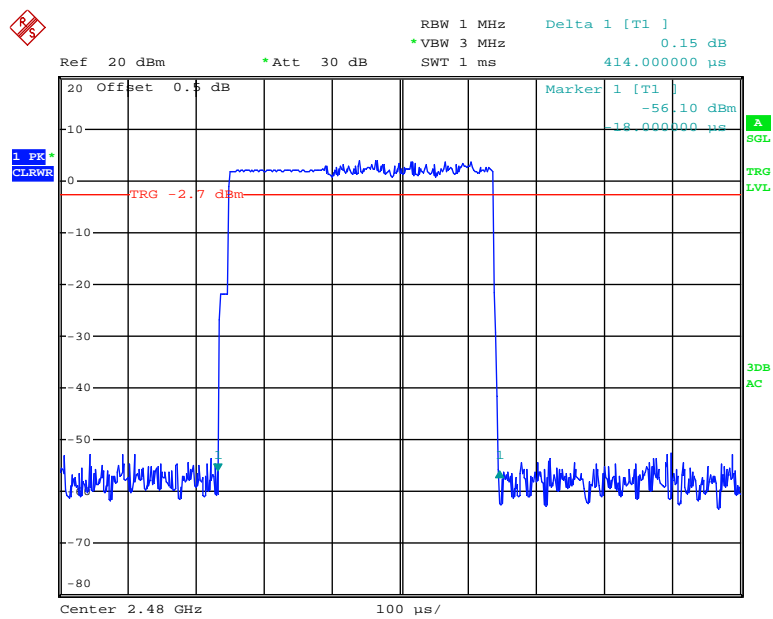
Date: 8.NOV.2017 14:18:06

3DH1: Middle Channel



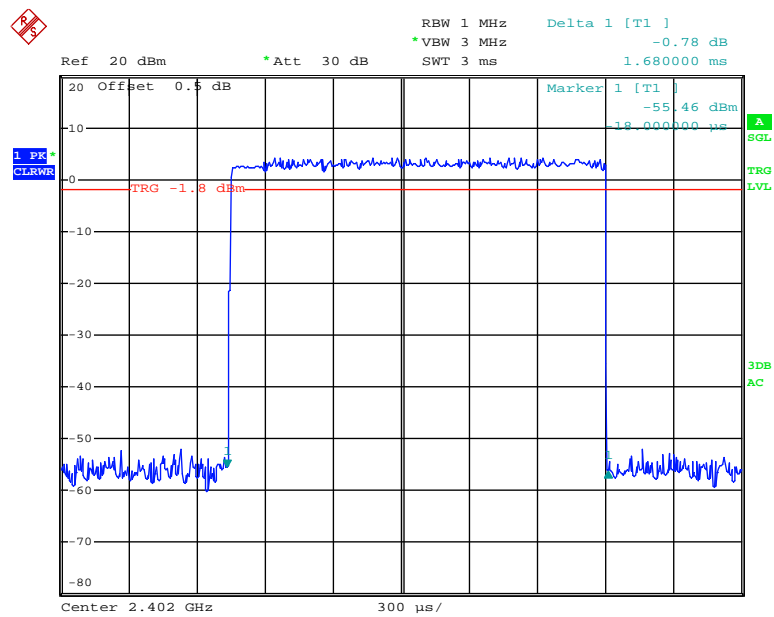
Date: 8.NOV.2017 14:18:30

3DH1: High Channel



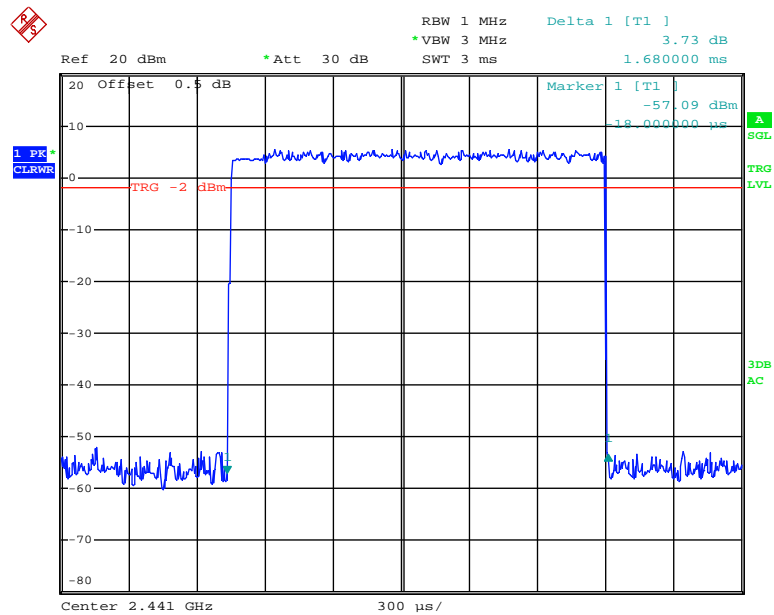
Date: 8.NOV.2017 14:18:39

3DH3: Low Channel



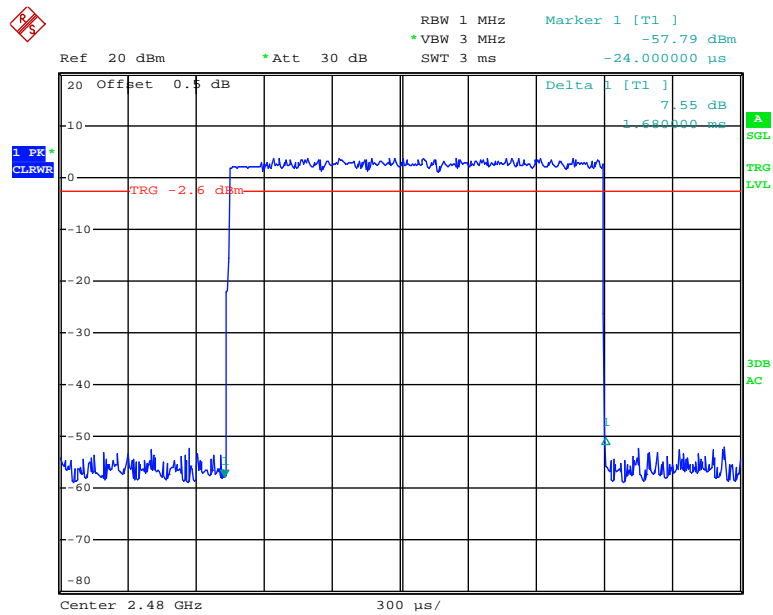
Date: 8.NOV.2017 14:19:47

3DH3: Middle Channel



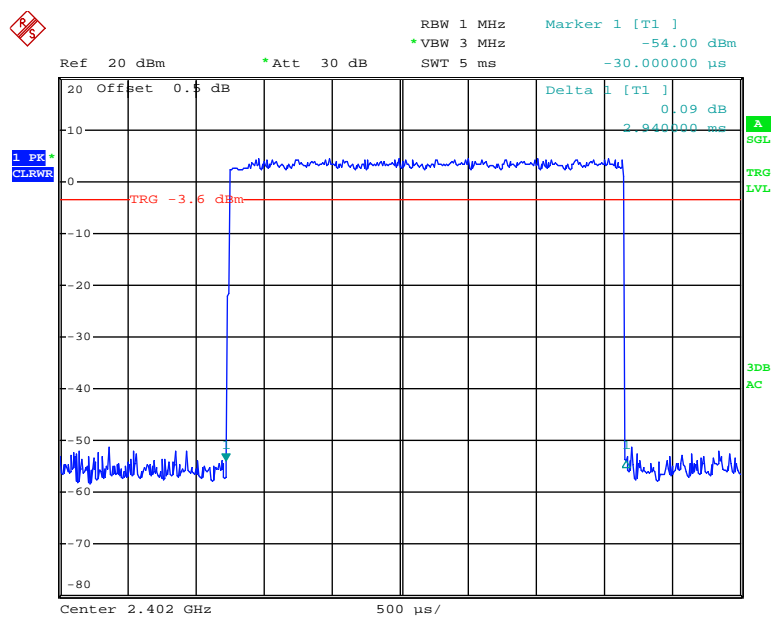
Date: 8.NOV.2017 14:19:54

3DH3: High Channel



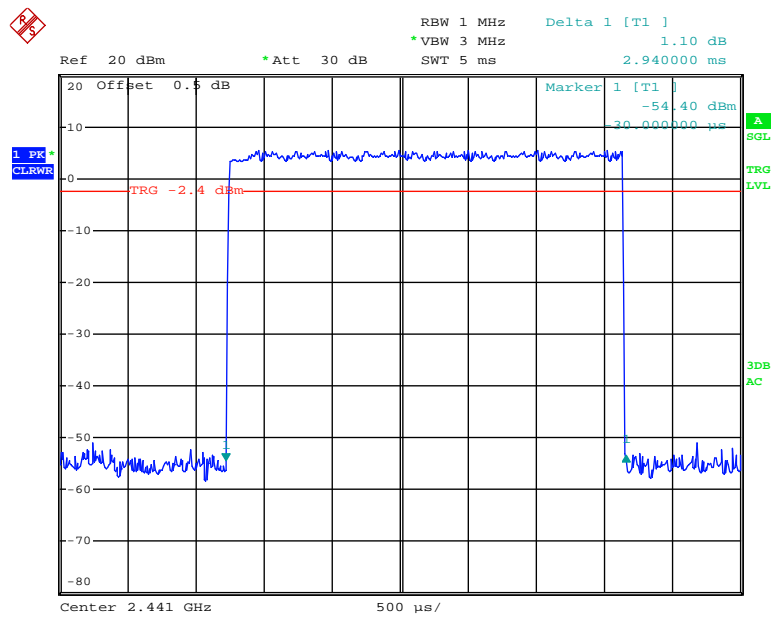
Date: 8.NOV.2017 14:20:21

3DH5: Low Channel



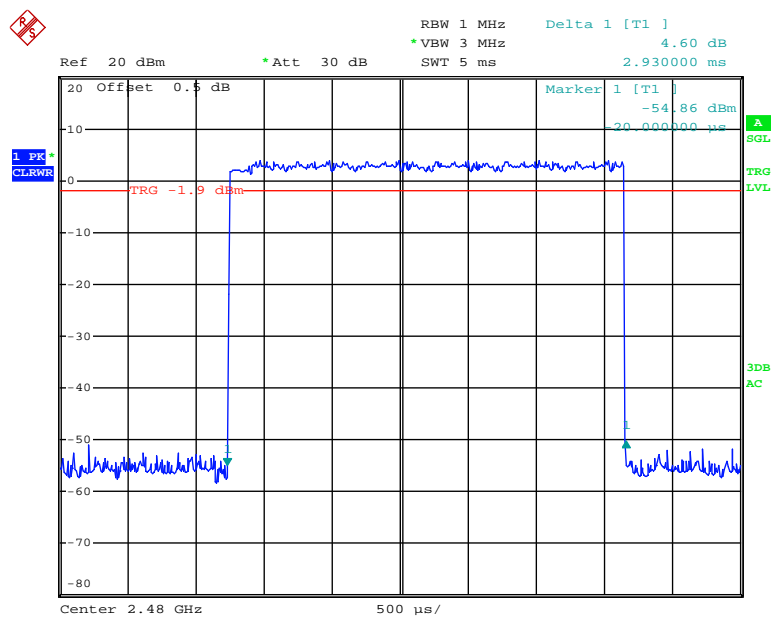
Date: 8.NOV.2017 14:21:11

3DH5: Middle Channel



Date: 8.NOV.2017 14:21:18

3DH5: High Channel



Date: 8.NOV.2017 14:21:24

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	EMI Test Receiver	ESCI	101121	2017/3/2	2018/3/2
N/A	Coaxial Cable	C-SJ00-0010	C0010/01	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:	26.8 °C
Relative Humidity:	51 %
ATM Pressure:	101.1 kPa

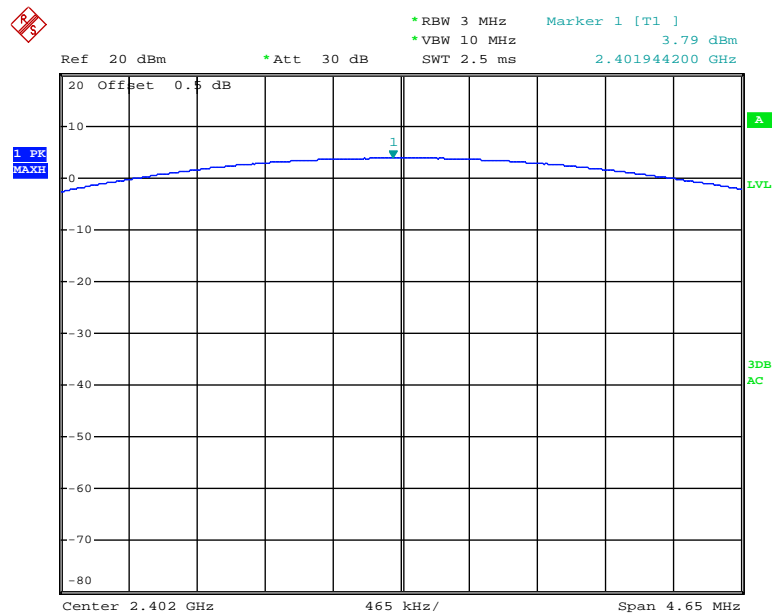
* The testing was performed by Swim Lv on 2017-11-08.

Test Result: Compliance.

Test Mode: Transmitting

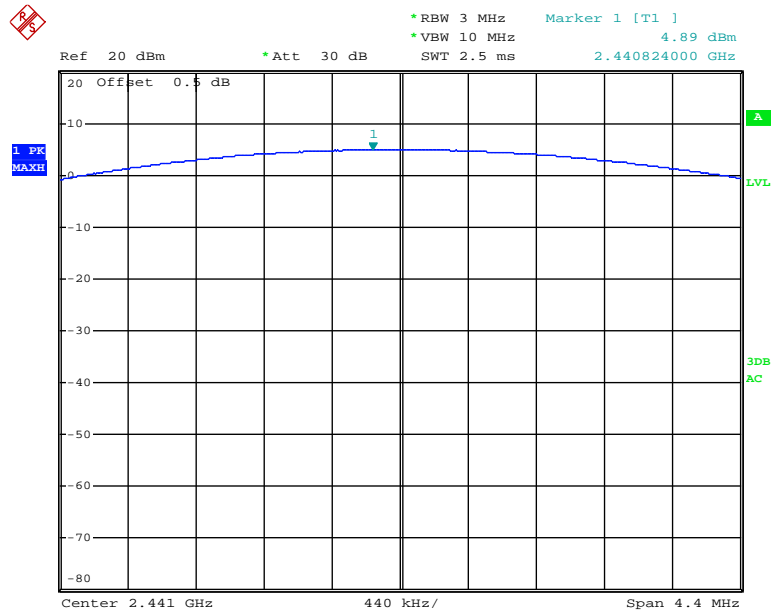
Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	3.79	30
	2441	4.89	30
	2480	3.34	30
EDR Mode ($\pi/4$ -DQPSK)	2402	4.53	30
	2441	5.72	30
	2480	4.04	30
EDR Mode (8-DPSK)	2402	5.17	30
	2441	6.33	30
	2480	4.68	30

Note: The data above was tested in conducted mode.

BDR Mode (GFSK):**Low Channel**

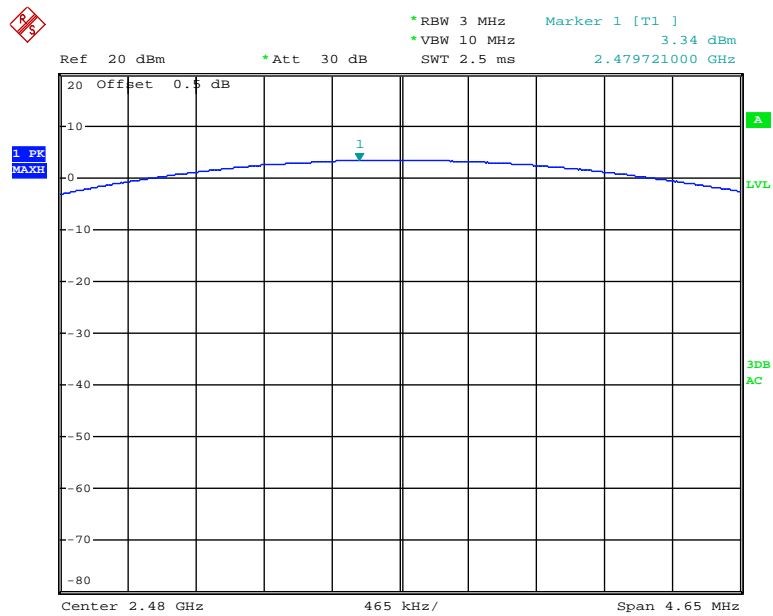
Date: 8.NOV.2017 13:00:49

Middle Channel



Date: 8.NOV.2017 13:03:21

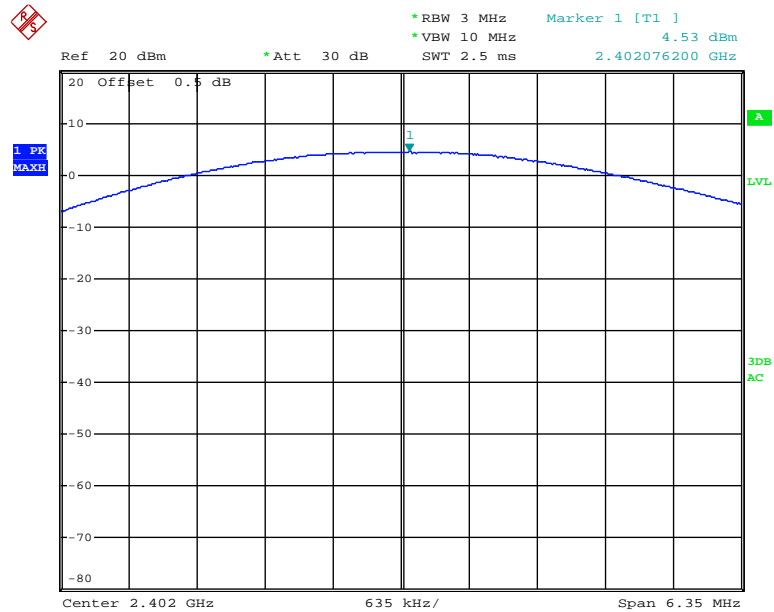
High Channel



Date: 8.NOV.2017 13:05:24

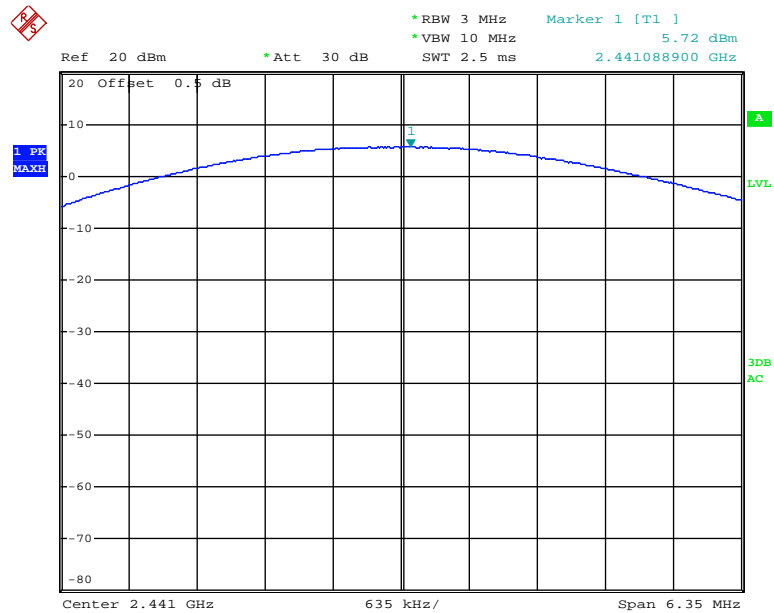
EDR Mode ($\pi/4$ -DQPSK):

Low Channel



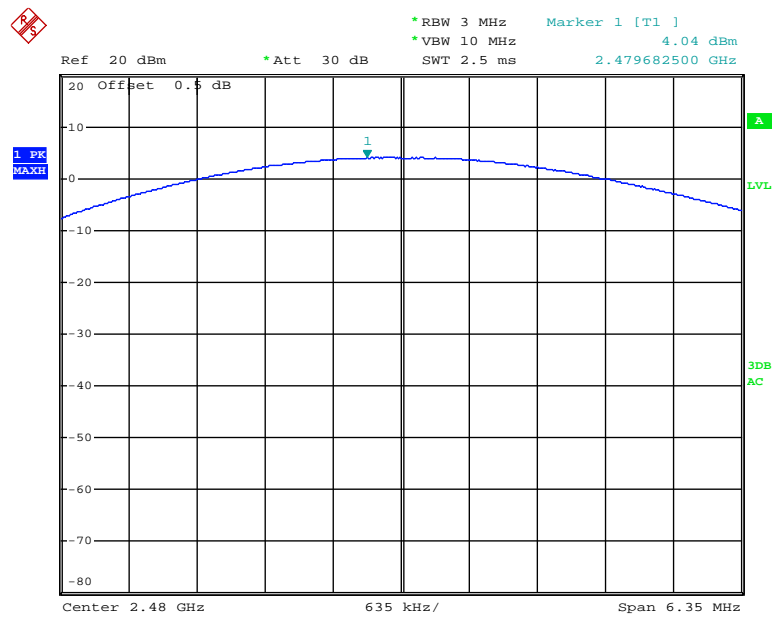
Date: 8.NOV.2017 13:09:23

Middle Channel



Date: 8.NOV.2017 13:08:26

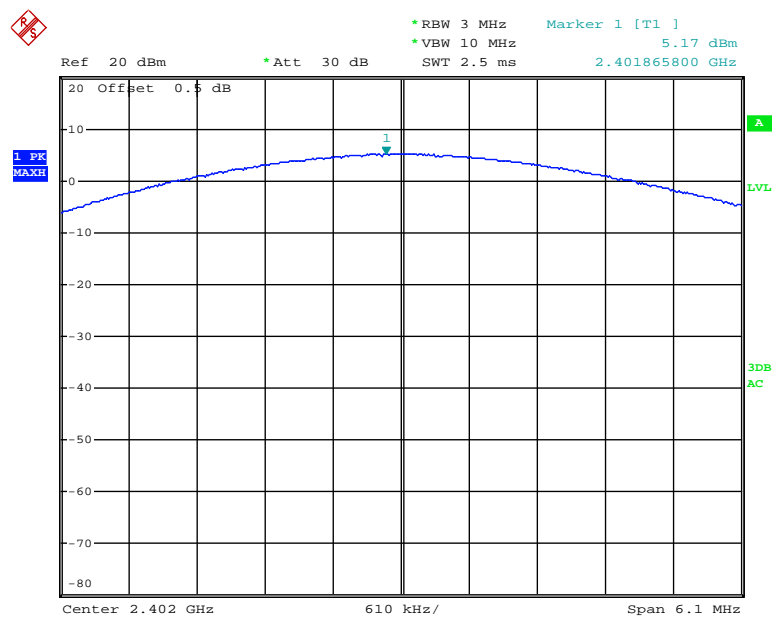
High Channel



Date: 8.NOV.2017 13:06:59

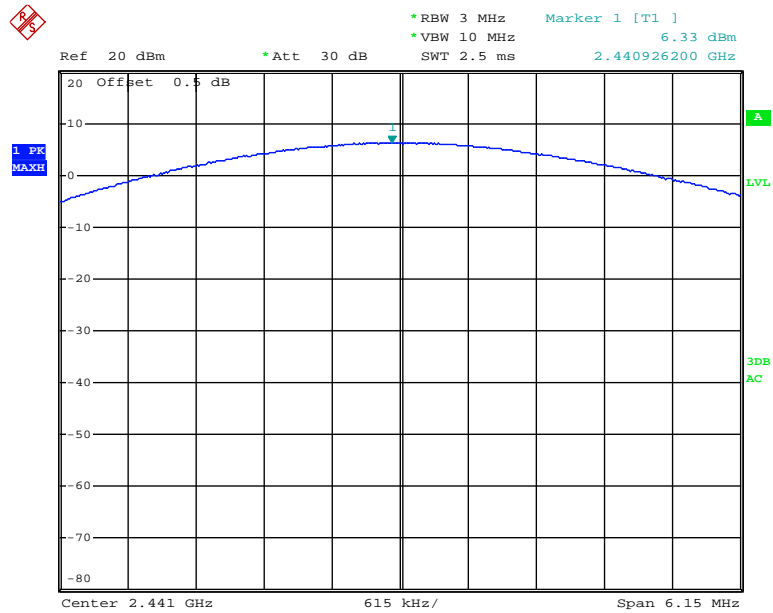
EDR Mode (8-DPSK):

Low Channel



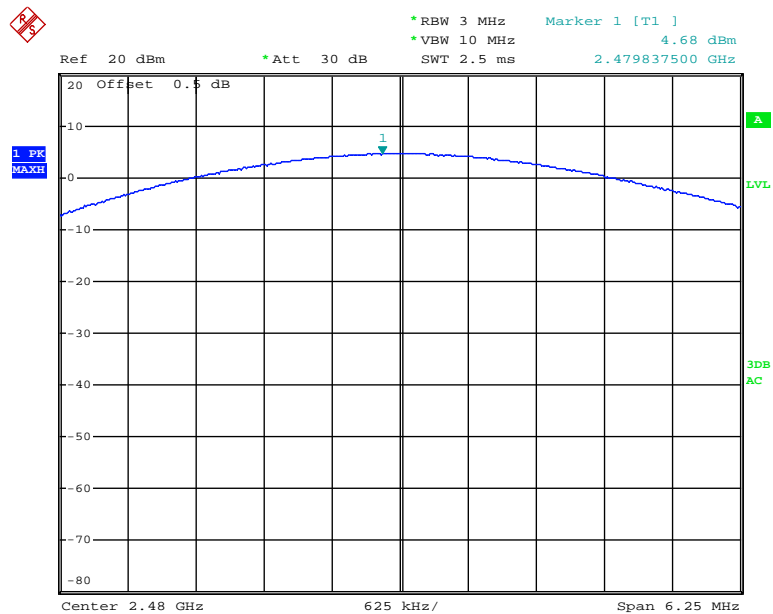
Date: 8.NOV.2017 13:10:49

Middle Channel



Date: 8.NOV.2017 13:12:15

High Channel



Date: 8.NOV.2017 13:13:11

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	EMI Test Receiver	ESCI	101121	2017/3/2	2018/3/2
N/A	Coaxial Cable	C-SJ00-0010	C0010/01	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**

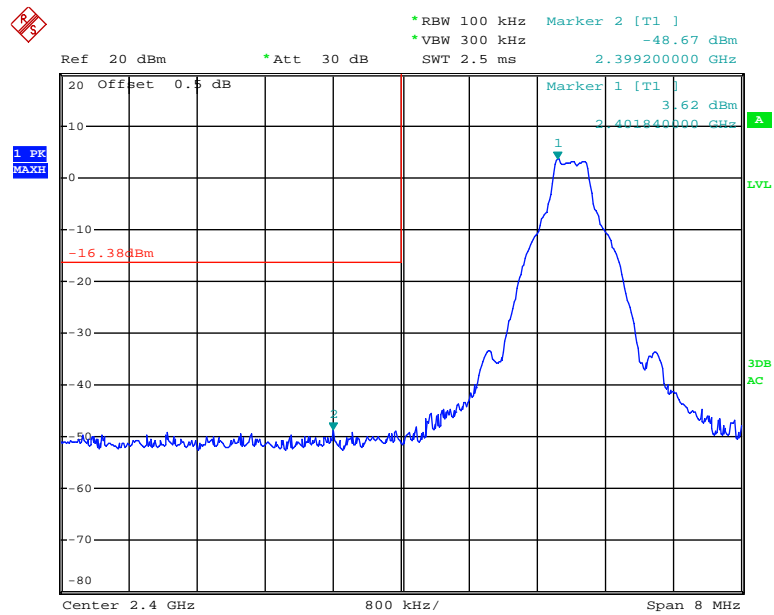
Temperature:	26.8 °C
Relative Humidity:	51 %
ATM Pressure:	101.1 kPa

** The testing was performed by Swim Lv on 2017-11-08.*

Test Result: Compliance

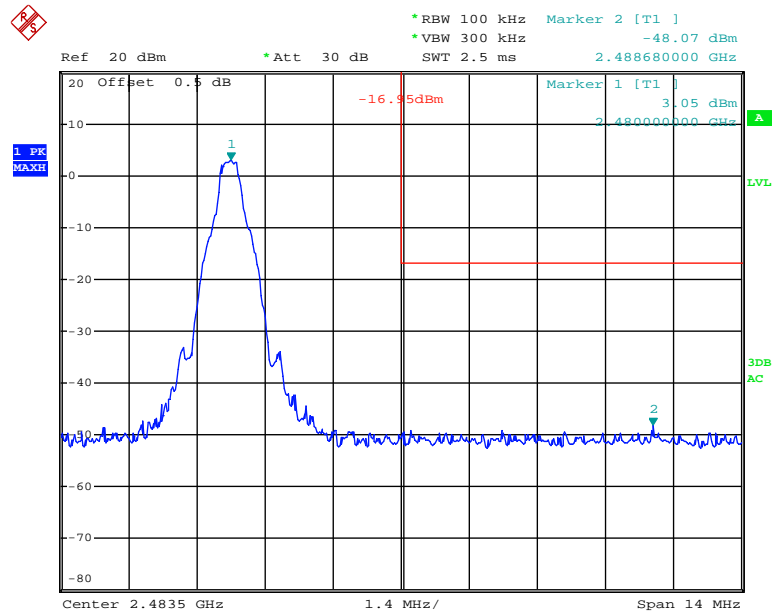
BDR Mode (GFSK):

Band Edge, Left Side



Date: 8.NOV.2017 13:01:05

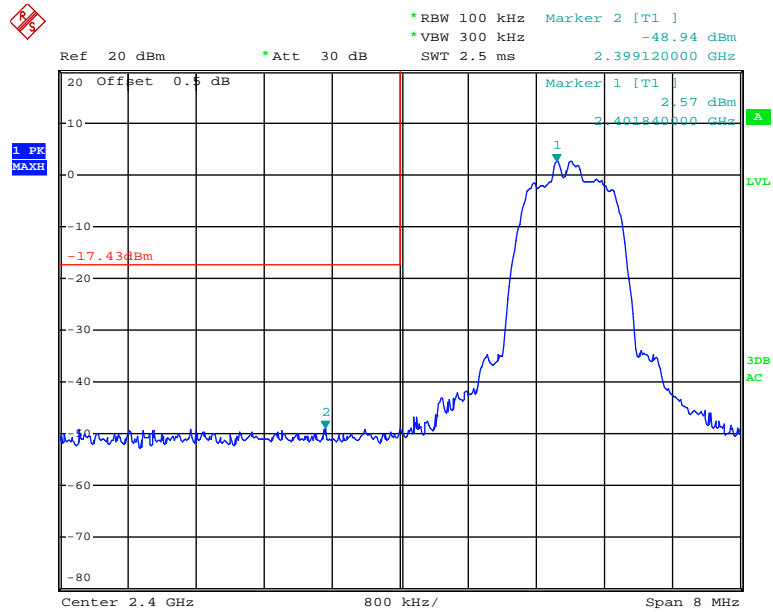
Band Edge, Right Side



Date: 8.NOV.2017 13:05:39

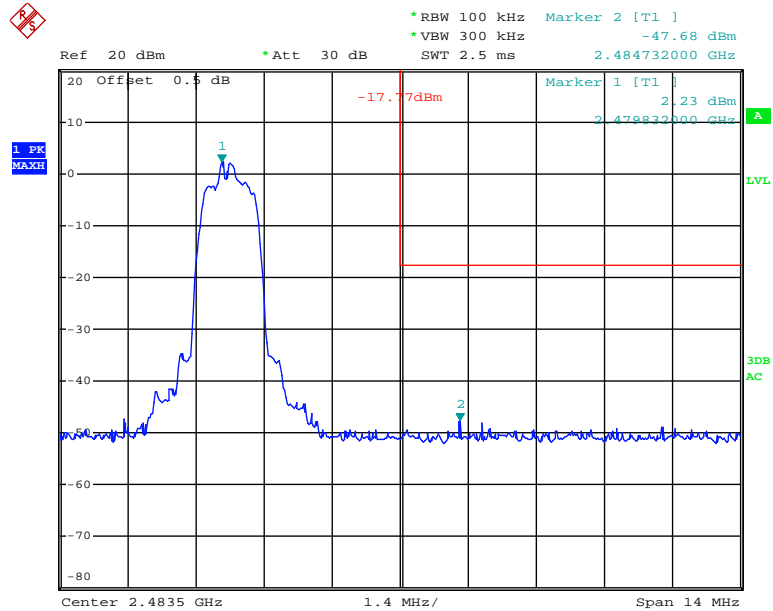
EDR Mode ($\pi/4$ -DQPSK):

Band Edge, Left Side

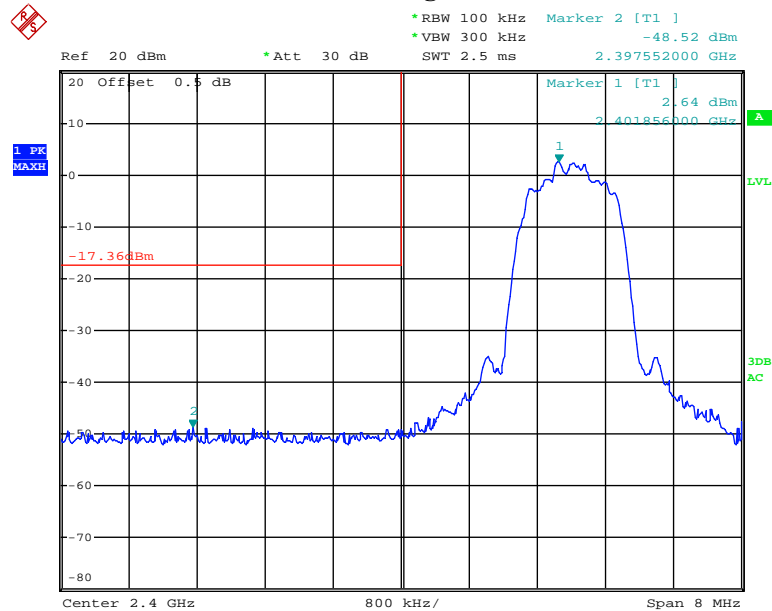


Date: 8.NOV.2017 13:09:43

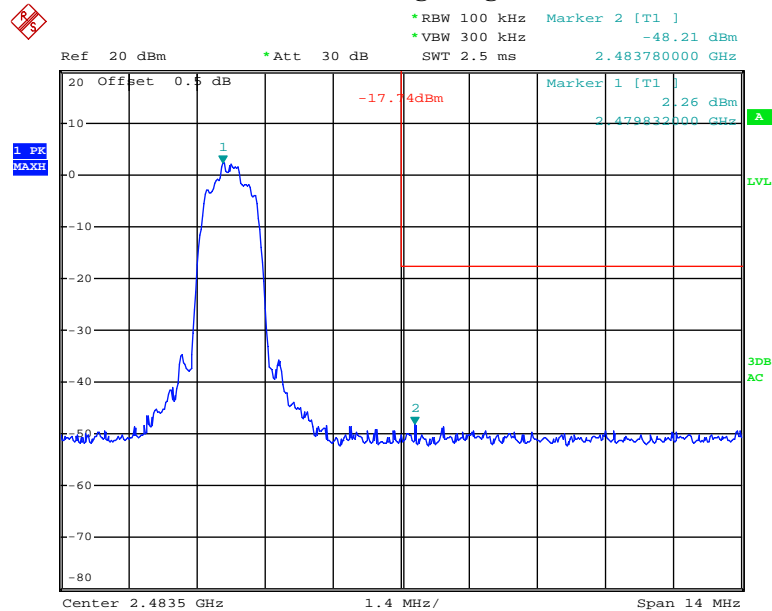
Band Edge, Right Side



Date: 8.NOV.2017 13:07:19

*EDR Mode (8-DPSK):***Band Edge, Left Side**

Date: 8.NOV.2017 13:11:11

Band Edge, Right Side

Date: 8.NOV.2017 13:13:27

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