FCC PART 15.247

TEST REPORT

For

Eurosun International Limited

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FCC ID: 2AJ33-5B401BT

Report Type:	**Product Name:**
Original Report	Bluetooth tower speaker

Report Number:	RDG170928001-00
Report Date:	2017-10-12
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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).

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 EQUIPMENT LIST AND DETAILS 6
SUPPORT CABLE LIST AND DETAILS 6
BLOCK DIAGRAM OF TEST SETUP 7
SUMMARY OF TEST RESULTS **8**
FCC §15.247 (i) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE) **9**
APPLICABLE STANDARD 9
FCC §15.203 - ANTENNA REQUIREMENT **10**
APPLICABLE STANDARD 10
ANTENNA CONNECTOR CONSTRUCTION 10
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS **11**
APPLICABLE STANDARD 11
EUT SETUP 11
EMI TEST RECEIVER SETUP 11
TEST PROCEDURE 12
CORRECTED AMPLITUDE & MARGIN CALCULATION 12
TEST EQUIPMENT LIST AND DETAILS 12
TEST DATA 12
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS **15**
APPLICABLE STANDARD 15
EUT SETUP 15
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP 16
TEST PROCEDURE 16
TEST EQUIPMENT LIST AND DETAILS 16
CORRECTED AMPLITUDE & MARGIN CALCULATION 17
TEST DATA 17
FCC §15.247(a) (1) - CHANNEL SEPARATION TEST **23**
APPLICABLE STANDARD 23
TEST EQUIPMENT LIST AND DETAILS 23
TEST PROCEDURE 23
TEST DATA 23
FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING **29**
APPLICABLE STANDARD 29
TEST PROCEDURE 29
TEST EQUIPMENT LIST AND DETAILS 29

TEST DATA 29

FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST 35

APPLICABLE STANDARD 35
TEST PROCEDURE 35
TEST EQUIPMENT LIST AND DETAILS.....35
TEST DATA 35

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....39

APPLICABLE STANDARD 39
TEST PROCEDURE 39
TEST EQUIPMENT LIST AND DETAILS.....39
TEST DATA 39

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT.....55

APPLICABLE STANDARD 55
TEST PROCEDURE 55
TEST EQUIPMENT LIST AND DETAILS.....55
TEST DATA 55

FCC §15.247(d) - BAND EDGES TESTING 61

APPLICABLE STANDARD 61
TEST PROCEDURE 61
TEST EQUIPMENT LIST AND DETAILS.....61
TEST DATA 62

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ***Eurosun International Limited***'s product, model number: ***5B401BT (FCC ID: 2AJ33-5B401BT)*** (the "EUT") in this report was a ***Bluetooth tower speaker,*** which was measured approximately: 30 cm (L) x 21 cm (W) x 22 cm (H), rated input voltage: DC3.7V from battery or DC 5V form USB port.

**All measurement and test data in this report was gathered from production sample serial number: 170928001 (Assigned by BACL,Dongguan). The EUT was received on 2017-09-28.*

Objective

This report is prepared on behalf of ***Eurosun International Limited*** 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)

N/A

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, RF conducted	±1.5 dB
Temperature	±1℃
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

Test software: ' FCCAssit 1.5.exe ' was used in test, the system configured maximum power level as below setting:

Test Software Version	FCCAssit 1.5.exe		
Test Frequency	2402MHz	2441MHz	2480MHz
GFSK	10	10	10
π/4-DQPSK	10	10	10
8-DPSK	10	10	10

Equipment Modifications

No modification was made to the EUT.

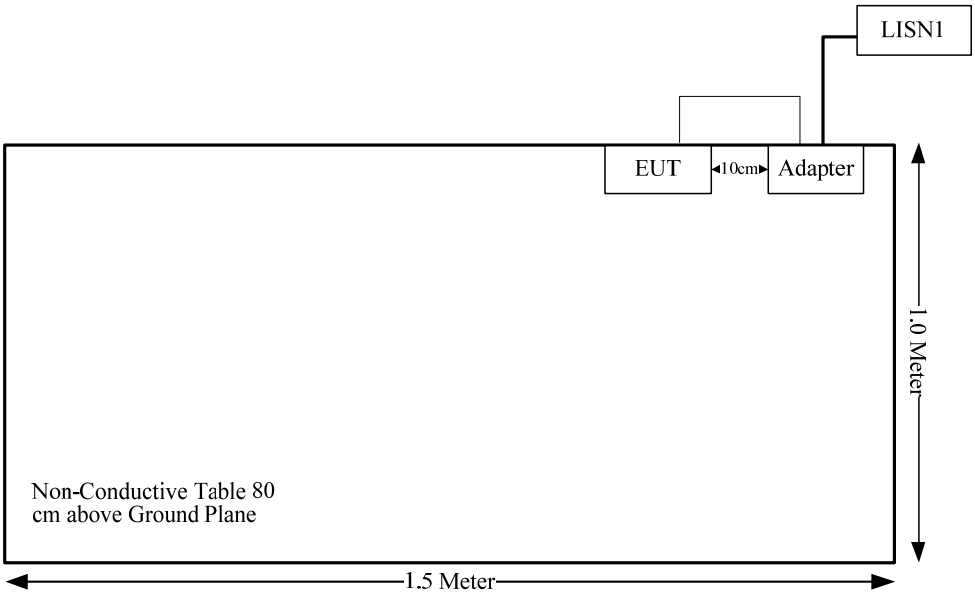
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
HUAWEI	adapter	HW-050200C01	N/A

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	To
USB Cable	yes	No	1.0	adapter	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	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 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

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

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Prediction of power density at the distance of the applicable MPE limit:
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Frequency Range (MHz)	Antenna Gain		Maximum Power Including Tolerance		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
	(dBi)	(numeric)	(dBm)	(mW)			
2402-2480	0	1.00	-3.0	0.50	20.00	0.0001	1.0

Note: The Maximum Power Including Tolerance was declared by manufacturer.

Result: Compliance, The device meet FCC MPE at 20 cm distance

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.

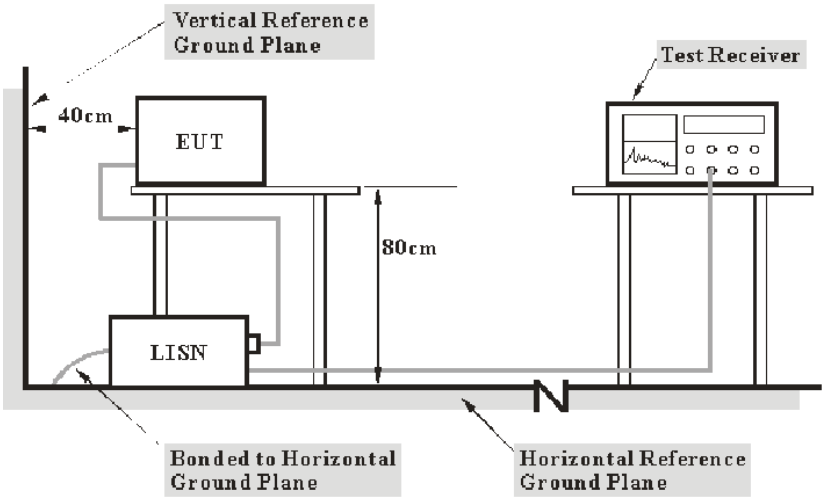
Result: Compliance.

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:

Margin = Limit – 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	C0200/01	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

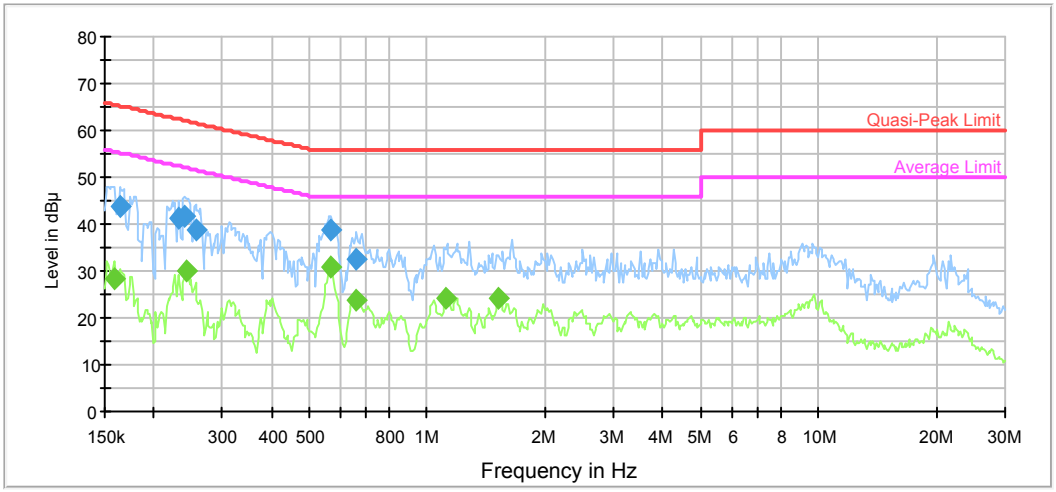
Environmental Conditions

Temperature:	27.1 °C
Relative Humidity:	50 %
ATM Pressure:	100.5 kPa

The testing was performed by Alex You on 2017-10-09.

Test Mode: Transmitting

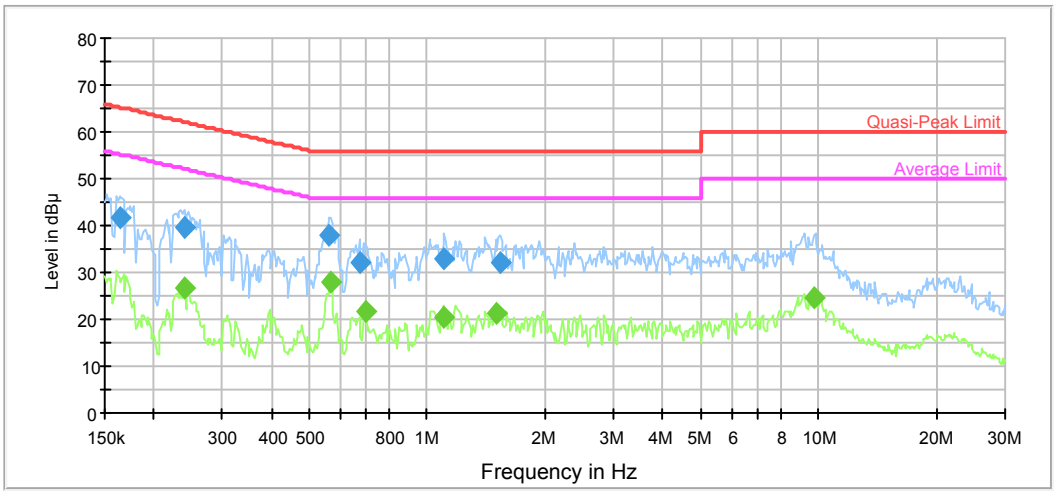
AC120V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.163741	43.6	9.000	L1	11.0	21.7	65.3	Compliance
0.232499	41.2	9.000	L1	10.4	21.2	62.4	Compliance
0.240029	41.9	9.000	L1	10.4	20.2	62.1	Compliance
0.255827	38.7	9.000	L1	10.3	22.9	61.6	Compliance
0.567545	38.9	9.000	L1	9.8	17.1	56.0	Compliance
0.660314	32.6	9.000	L1	9.8	23.4	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.158604	28.4	9.000	L1	11.1	27.1	55.5	Compliance
0.241949	29.8	9.000	L1	10.4	22.2	52.0	Compliance
0.567545	31.0	9.000	L1	9.8	15.0	46.0	Compliance
0.655073	23.8	9.000	L1	9.8	22.2	46.0	Compliance
1.117238	24.1	9.000	L1	9.8	21.9	46.0	Compliance
1.524426	24.2	9.000	L1	9.7	21.8	46.0	Compliance

AC120V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.163741	41.7	9.000	N	11.0	23.6	65.3	Compliance
0.240029	39.6	9.000	N	10.4	22.5	62.1	Compliance
0.563041	38.1	9.000	N	9.8	17.9	56.0	Compliance
0.670921	32.3	9.000	N	9.8	23.7	56.0	Compliance
1.108371	33.1	9.000	N	9.8	22.9	56.0	Compliance
1.536622	32.2	9.000	N	9.7	23.8	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.240029	26.7	9.000	N	10.4	25.4	52.1	Compliance
0.567545	27.7	9.000	N	9.8	18.3	46.0	Compliance
0.698191	21.8	9.000	N	9.8	24.2	46.0	Compliance
1.099574	20.2	9.000	N	9.8	25.8	46.0	Compliance
1.512328	21.3	9.000	N	9.7	24.7	46.0	Compliance
9.759114	24.6	9.000	N	9.9	25.4	50.0	Compliance

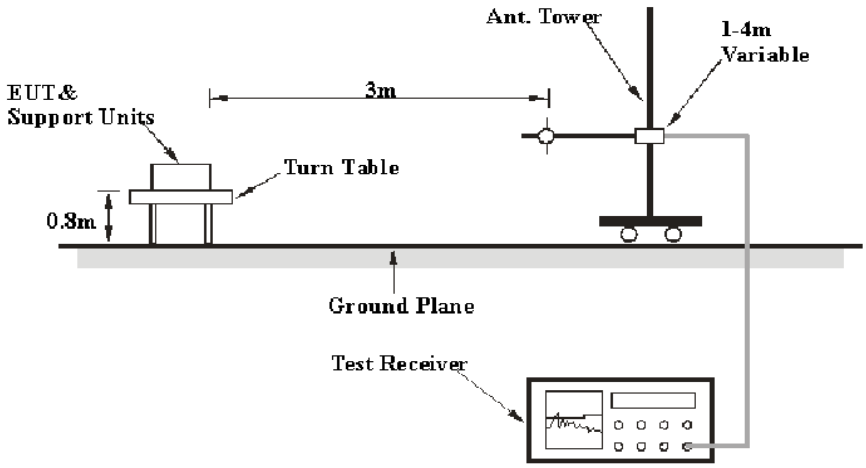
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

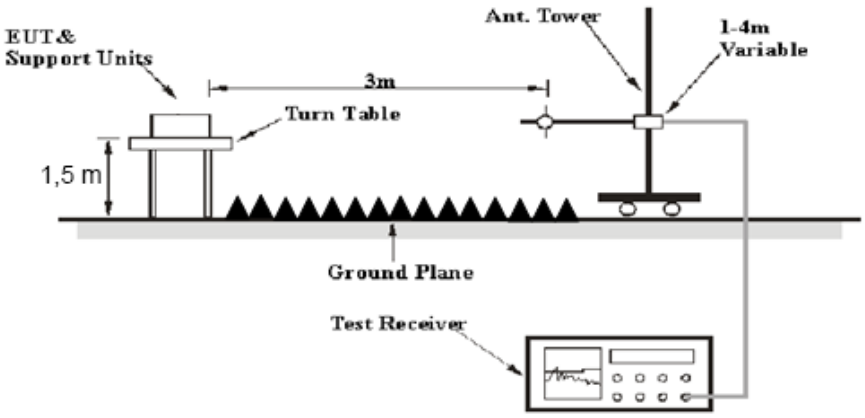
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission 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	2017-11-06
HP	Amplifier	8447D	2727A05902	2017-09-05	2018-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2016-12-08	2017-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
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
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-06-16	2020-06-15
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:

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

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

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

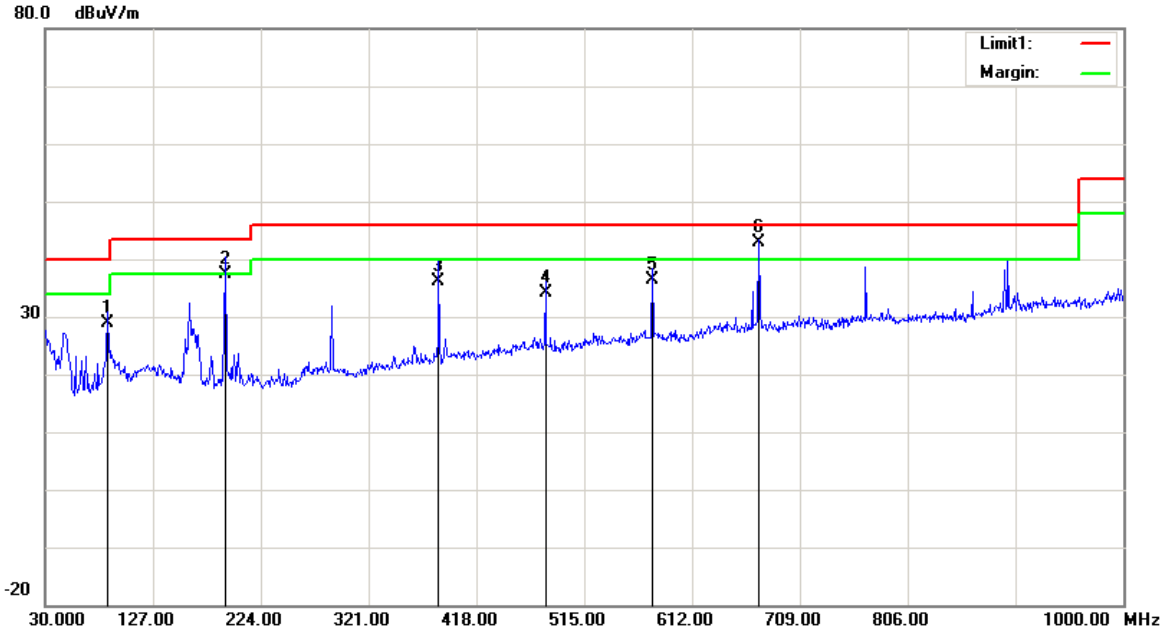
Temperature:	28.8 °C
Relative Humidity:	43 %
ATM Pressure:	100.6 kPa

** The testing was performed by Steven Zuo on 2017-10-11.*

Test Mode: Transmitting

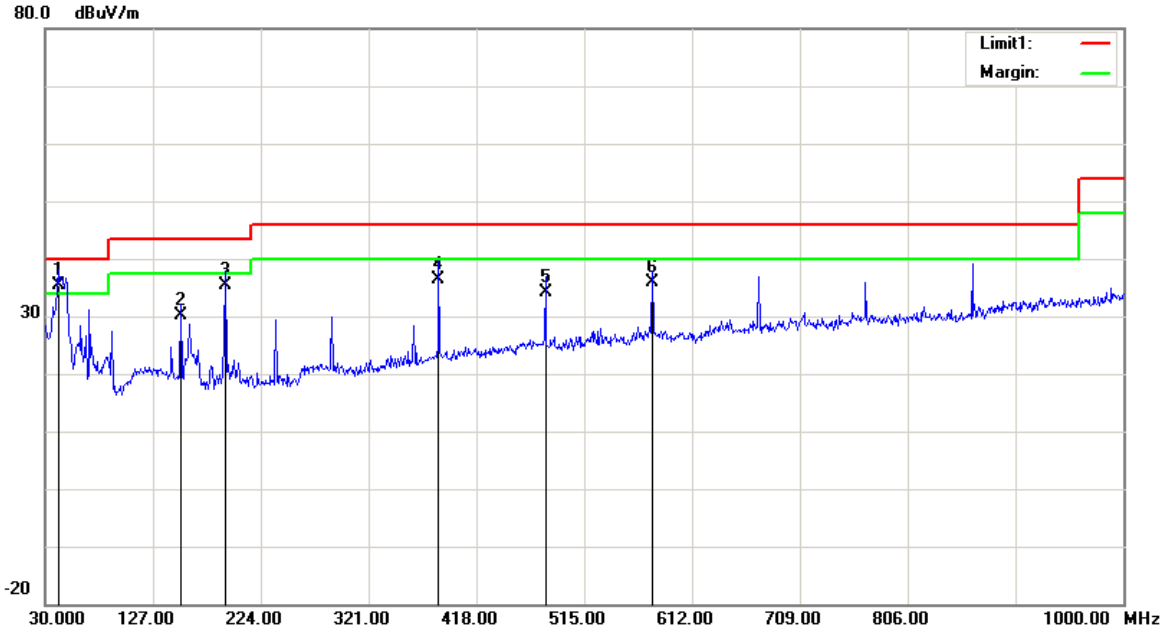
1) 30MHz-1GHz(π/4-DQPSK Low channel was the worst)

Horizontal:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
86.2600	39.96	QP	-11.16	28.80	40.00	11.20
191.9900	44.82	QP	-7.52	37.30	43.50	6.20
384.0500	38.80	QP	-2.60	36.20	46.00	9.80
480.0800	35.21	QP	-1.01	34.20	46.00	11.80
576.1100	35.68	QP	0.62	36.30	46.00	9.70
672.1400	41.19	QP	1.71	42.90	46.00	3.10

Vertical:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
41.6400	42.79	QP	-7.39	35.40	40.00	4.60
152.2200	36.62	QP	-6.52	30.10	43.50	13.40
191.9900	42.82	QP	-7.52	35.30	43.50	8.20
384.0500	39.10	QP	-2.60	36.50	46.00	9.50
480.0800	35.11	QP	-1.01	34.10	46.00	11.90
576.1100	35.18	QP	0.62	35.80	46.00	10.20

2) 1-25GHz:

BDR Mode (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	65.39	PK	H	28.10	1.80	0.00	95.29	N/A	N/A
2402	55.67	AV	H	28.10	1.80	0.00	85.57	N/A	N/A
2402	59.16	PK	V	28.10	1.80	0.00	89.06	N/A	N/A
2402	49.42	AV	V	28.10	1.80	0.00	79.32	N/A	N/A
2390	25.94	PK	H	28.08	1.80	0.00	55.82	74.00	18.18
2390	13.48	AV	H	28.08	1.80	0.00	43.36	54.00	10.64
4804	50.61	PK	H	32.91	3.17	37.20	49.49	74.00	24.51
4804	37.28	AV	H	32.91	3.17	37.20	36.16	54.00	17.84
7206	46.95	PK	H	35.74	4.82	37.23	50.28	74.00	23.72
7206	32.86	AV	H	35.74	4.82	37.23	36.19	54.00	17.81
5965	45.56	PK	H	34.29	3.82	37.29	46.38	74.00	27.62
5965	32.14	AV	H	34.29	3.82	37.29	32.96	54.00	21.04
Middle Channel: 2441 MHz									
2441	65.08	PK	H	28.18	1.82	0.00	95.08	N/A	N/A
2441	55.37	AV	H	28.18	1.82	0.00	85.37	N/A	N/A
2441	59.25	PK	V	28.18	1.82	0.00	89.25	N/A	N/A
2441	49.43	AV	V	28.18	1.82	0.00	79.43	N/A	N/A
4882	49.73	PK	H	33.06	3.27	37.21	48.85	74.00	25.15
4882	36.38	AV	H	33.06	3.27	37.21	35.5	54.00	18.5
7323	46.94	PK	H	36.04	4.62	37.38	50.22	74.00	23.78
7323	32.68	AV	H	36.04	4.62	37.38	35.96	54.00	18.04
5899	46.12	PK	H	34.26	3.79	37.22	46.95	74.00	27.05
5899	32.53	AV	H	34.26	3.79	37.22	33.36	54.00	20.64
6125	46.18	PK	H	34.28	4.06	37.27	47.25	74.00	26.75
6125	31.79	AV	H	34.28	4.06	37.27	32.86	54.00	21.14
High Channel: 2480 MHz									
2480	62.34	PK	H	28.26	1.84	0.00	92.44	N/A	N/A
2480	52.48	AV	H	28.26	1.84	0.00	82.58	N/A	N/A
2480	57.89	PK	V	28.26	1.84	0.00	87.99	N/A	N/A
2480	47.73	AV	V	28.26	1.84	0.00	77.83	N/A	N/A
2484	26.75	PK	H	28.27	1.84	0.00	56.86	74.00	17.14
2484	14.62	AV	H	28.27	1.84	0.00	44.73	54.00	9.27
4960	49.55	PK	H	33.22	3.23	37.25	48.75	74.00	25.25
4960	36.34	AV	H	33.22	3.23	37.25	35.54	54.00	18.46
7440	46.93	PK	H	36.34	4.41	37.52	50.16	74.00	23.84
7440	32.65	AV	H	36.34	4.41	37.52	35.88	54.00	18.12
5985	45.78	PK	H	34.29	3.82	37.31	46.58	74.00	27.42
5985	31.86	AV	H	34.29	3.82	37.31	32.66	54.00	21.34

EDR Mode (π/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	64.15	PK	H	28.10	1.80	0.00	94.05	N/A	N/A
2402	54.69	AV	H	28.10	1.80	0.00	84.59	N/A	N/A
2402	60.14	PK	V	28.10	1.80	0.00	90.04	N/A	N/A
2402	50.37	AV	V	28.10	1.80	0.00	80.27	N/A	N/A
2390	25.12	PK	H	28.08	1.80	0.00	55	74.00	19
2390	13.26	AV	H	28.08	1.80	0.00	43.14	54.00	10.86
4804	50.64	PK	H	32.91	3.17	37.20	49.52	74.00	24.48
4804	37.28	AV	H	32.91	3.17	37.20	36.16	54.00	17.84
7206	46.37	PK	H	35.74	4.82	37.23	49.7	74.00	24.3
7206	32.46	AV	H	35.74	4.82	37.23	35.79	54.00	18.21
5965	45.62	PK	H	34.29	3.82	37.29	46.44	74.00	27.56
5965	31.75	AV	H	34.29	3.82	37.29	32.57	54.00	21.43
Middle Channel: 2441 MHz									
2441	63.68	PK	H	28.18	1.82	0.00	93.68	N/A	N/A
2441	53.76	AV	H	28.18	1.82	0.00	83.76	N/A	N/A
2441	59.37	PK	V	28.18	1.82	0.00	89.37	N/A	N/A
2441	49.52	AV	V	28.18	1.82	0.00	79.52	N/A	N/A
4882	49.58	PK	H	33.06	3.27	37.21	48.7	74.00	25.3
4882	36.19	AV	H	33.06	3.27	37.21	35.31	54.00	18.69
7323	46.75	PK	H	36.04	4.62	37.38	50.03	74.00	23.97
7323	32.68	AV	H	36.04	4.62	37.38	35.96	54.00	18.04
5899	46.13	PK	H	34.26	3.79	37.22	46.96	74.00	27.04
5899	32.34	AV	H	34.26	3.79	37.22	33.17	54.00	20.83
6125	45.83	PK	H	34.28	4.06	37.27	46.9	74.00	27.1
6125	31.76	AV	H	34.28	4.06	37.27	32.83	54.00	21.17
High Channel: 2480 MHz									
2480	62.89	PK	H	28.26	1.84	0.00	92.99	N/A	N/A
2480	52.75	AV	H	28.26	1.84	0.00	82.85	N/A	N/A
2480	58.63	PK	V	28.26	1.84	0.00	88.73	N/A	N/A
2480	48.87	AV	V	28.26	1.84	0.00	78.97	N/A	N/A
2484	27.13	PK	H	28.27	1.84	0.00	57.24	74.00	16.76
2484	14.58	AV	H	28.27	1.84	0.00	44.69	54.00	9.31
4960	49.36	PK	H	33.22	3.23	37.25	48.56	74.00	25.44
4960	36.12	AV	H	33.22	3.23	37.25	35.32	54.00	18.68
7440	46.72	PK	H	36.34	4.41	37.52	49.95	74.00	24.05
7440	32.49	AV	H	36.34	4.41	37.52	35.72	54.00	18.28
5985	45.68	PK	H	34.29	3.82	37.31	46.48	74.00	27.52
5985	31.73	AV	H	34.29	3.82	37.31	32.53	54.00	21.47

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	64.34	PK	H	28.10	1.80	0.00	94.24	N/A	N/A
2402	54.88	AV	H	28.10	1.80	0.00	84.78	N/A	N/A
2402	60.33	PK	V	28.10	1.80	0.00	90.23	N/A	N/A
2402	50.56	AV	V	28.10	1.80	0.00	80.46	N/A	N/A
2390	25.31	PK	H	28.08	1.80	0.00	55.19	74.00	18.81
2390	13.45	AV	H	28.08	1.80	0.00	43.33	54.00	10.67
4804	50.83	PK	H	32.91	3.17	37.20	49.71	74.00	24.29
4804	37.47	AV	H	32.91	3.17	37.20	36.35	54.00	17.65
7206	46.56	PK	H	35.74	4.82	37.23	49.89	74.00	24.11
7206	32.65	AV	H	35.74	4.82	37.23	35.98	54.00	18.02
5965	45.81	PK	H	34.29	3.82	37.29	46.63	74.00	27.37
5965	31.94	AV	H	34.29	3.82	37.29	32.76	54.00	21.24
Middle Channel: 2441 MHz									
2441	63.87	PK	H	28.18	1.82	0.00	93.87	N/A	N/A
2441	53.95	AV	H	28.18	1.82	0.00	83.95	N/A	N/A
2441	59.56	PK	V	28.18	1.82	0.00	89.56	N/A	N/A
2441	49.62	AV	V	28.18	1.82	0.00	79.62	N/A	N/A
4882	49.77	PK	H	33.06	3.27	37.21	48.89	74.00	25.11
4882	36.38	AV	H	33.06	3.27	37.21	35.5	54.00	18.5
7323	46.94	PK	H	36.04	4.62	37.38	50.22	74.00	23.78
7323	32.87	AV	H	36.04	4.62	37.38	36.15	54.00	17.85
5899	46.32	PK	H	34.26	3.79	37.22	47.15	74.00	26.85
5899	32.53	AV	H	34.26	3.79	37.22	33.36	54.00	20.64
6125	46.02	PK	H	34.28	4.06	37.27	47.09	74.00	26.91
6125	31.95	AV	H	34.28	4.06	37.27	33.02	54.00	20.98
High Channel: 2480 MHz									
2480	63.08	PK	H	28.26	1.84	0.00	93.18	N/A	N/A
2480	52.94	AV	H	28.26	1.84	0.00	83.04	N/A	N/A
2480	58.82	PK	V	28.26	1.84	0.00	88.92	N/A	N/A
2480	49.06	AV	V	28.26	1.84	0.00	79.16	N/A	N/A
2484	27.32	PK	H	28.27	1.84	0.00	57.43	74.00	16.57
2484	14.77	AV	H	28.27	1.84	0.00	44.88	54.00	9.12
4960	49.55	PK	H	33.22	3.23	37.25	48.75	74.00	25.25
4960	36.31	AV	H	33.22	3.23	37.25	35.51	54.00	18.49
7440	46.91	PK	H	36.34	4.41	37.52	50.14	74.00	23.86
7440	32.68	AV	H	36.34	4.41	37.52	35.91	54.00	18.09
5985	45.87	PK	H	34.29	3.82	37.31	46.67	74.00	27.33
5985	31.92	AV	H	34.29	3.82	37.31	32.72	54.00	21.28

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

Applicable Standard

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	101121	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-6	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:	27.6 °C
Relative Humidity:	48 %
ATM Pressure:	100.6 kPa

** The testing was performed by George Pang on 2017-10-11.*

Test Result: Compliance.

Please refer to following tables and plots

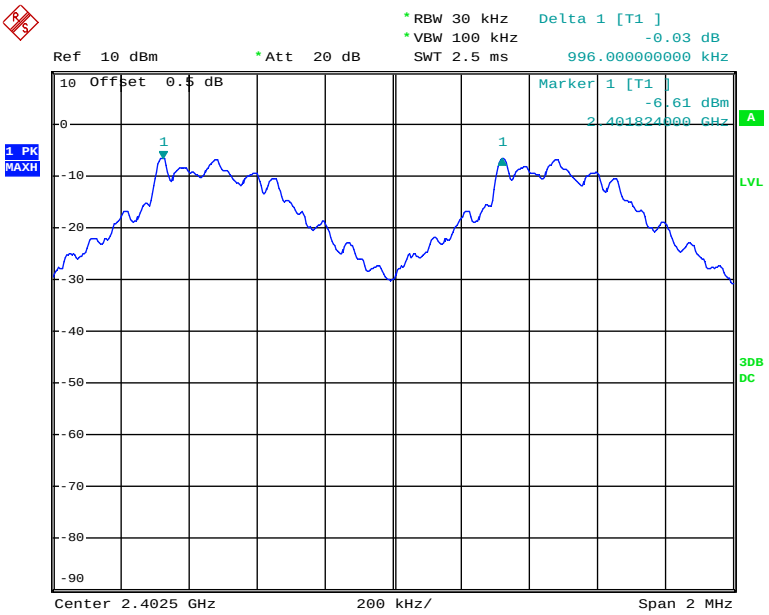
Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
BDR (GFSK)	Low	2402	0.996	0.59
	Middle	2441	1.000	0.59
	High	2480	1.000	0.59
EDR (π/4-DQPSK)	Low	2402	1.000	0.84
	Middle	2441	1.000	0.84
	High	2480	1.004	0.84
EDR (8DPSK)	Low	2402	1.004	0.84
	Middle	2441	1.004	0.85
	High	2480	1.000	0.84

Note: Limit= (2/3) × 20dB bandwidth

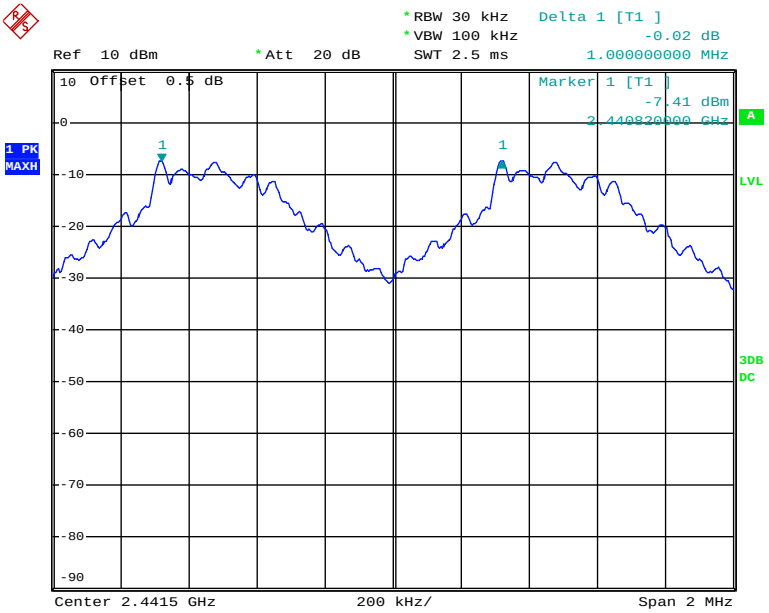
BDR Mode (GFSK):

Low Channel



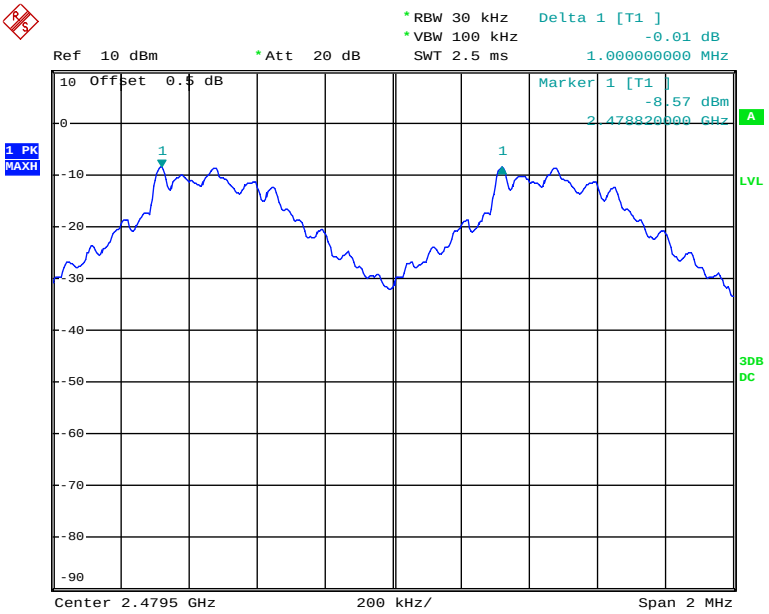
Date: 11.OCT.2017 14:45:56

Middle Channel



Date: 11.OCT.2017 14:46:52

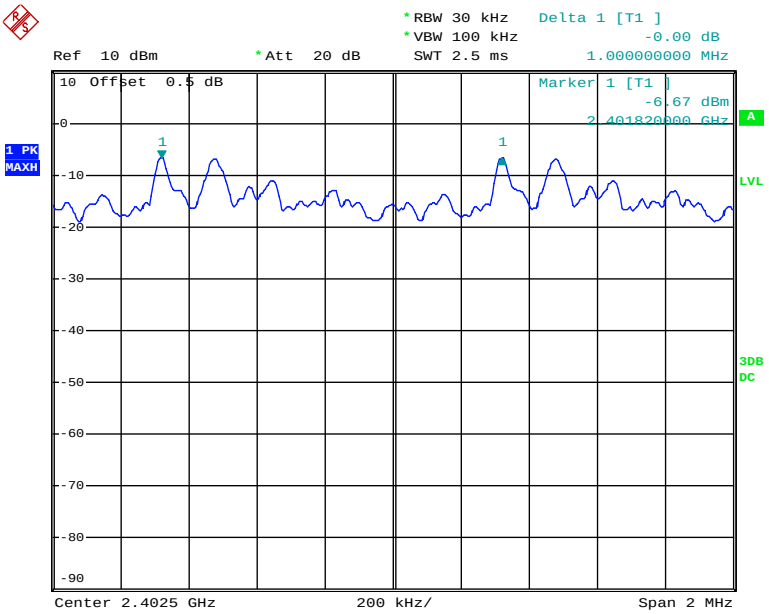
High Channel



Date: 11.OCT.2017 14:47:55

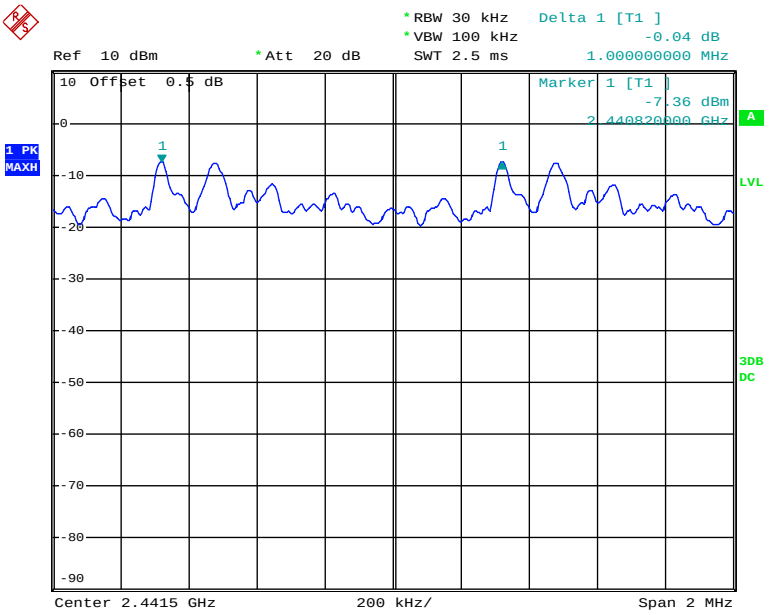
EDR Mode (π/4-DQPSK):

Low Channel



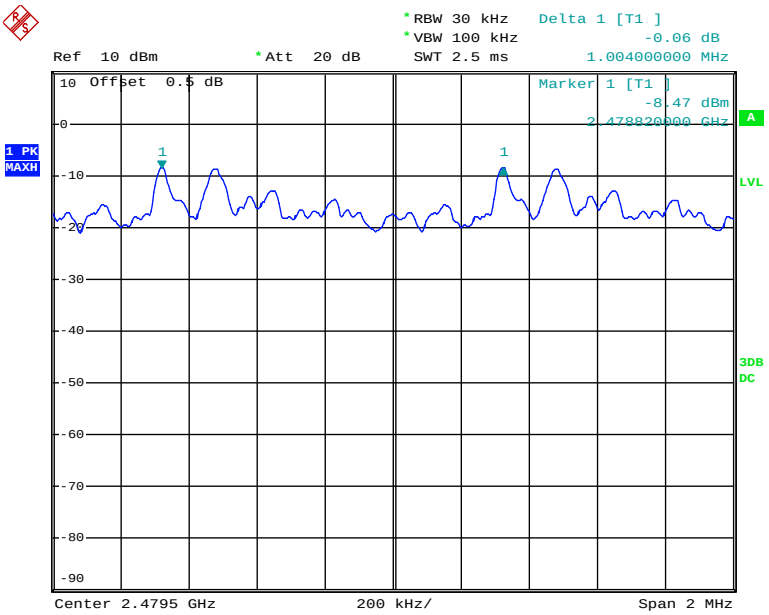
Date: 11.OCT.2017 14:49:19

Middle Channel



Date: 11.OCT.2017 14:50:19

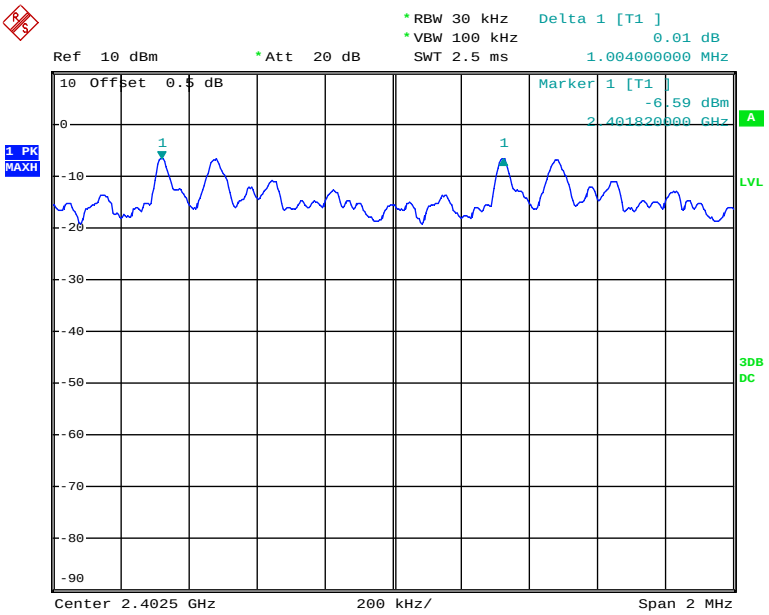
High Channel



Date: 11.OCT.2017 14:51:15

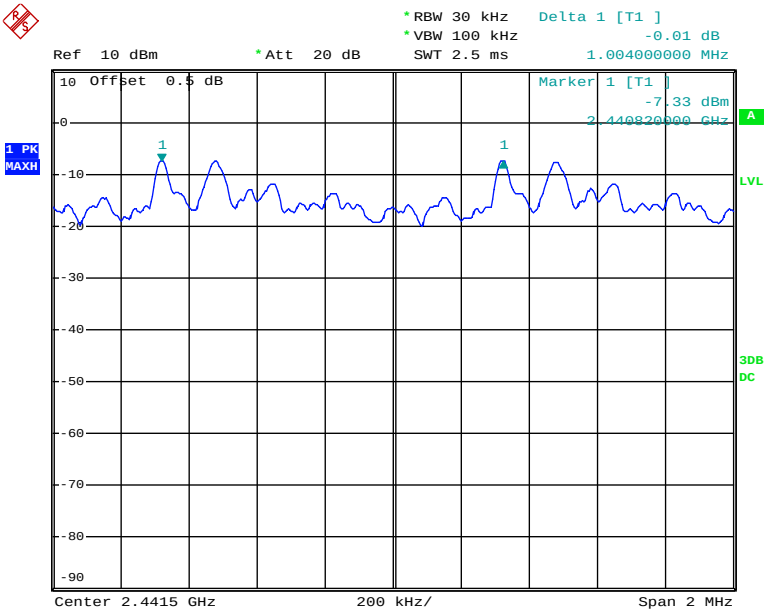
EDR Mode (8-DPSK):

Low Channel



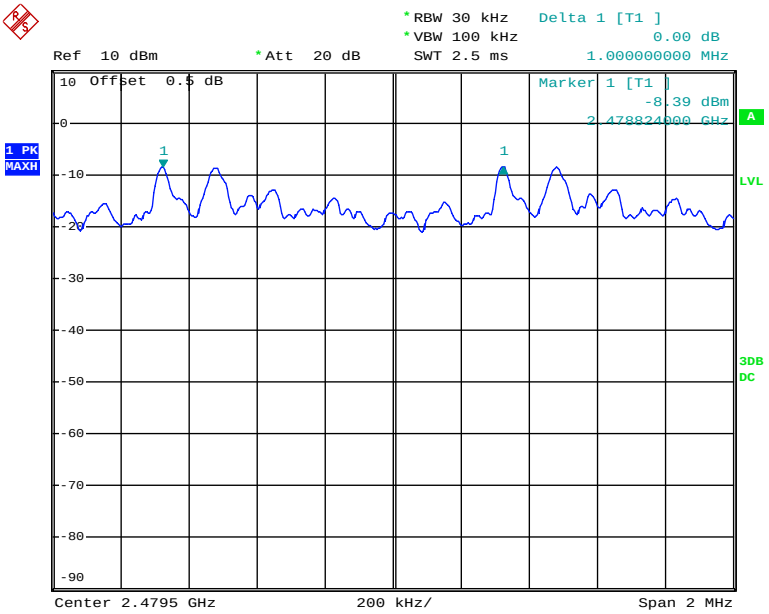
Date: 11.OCT.2017 14:52:16

Middle Channel



Date: 11.OCT.2017 14:53:13

High Channel



Date: 11.OCT.2017 14:54:10

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	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-6	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:	27.6 °C
Relative Humidity:	48 %
ATM Pressure:	100.6 kPa

** The testing was performed by George Pang on 2017-10-11.*

Test Result: Compliance.

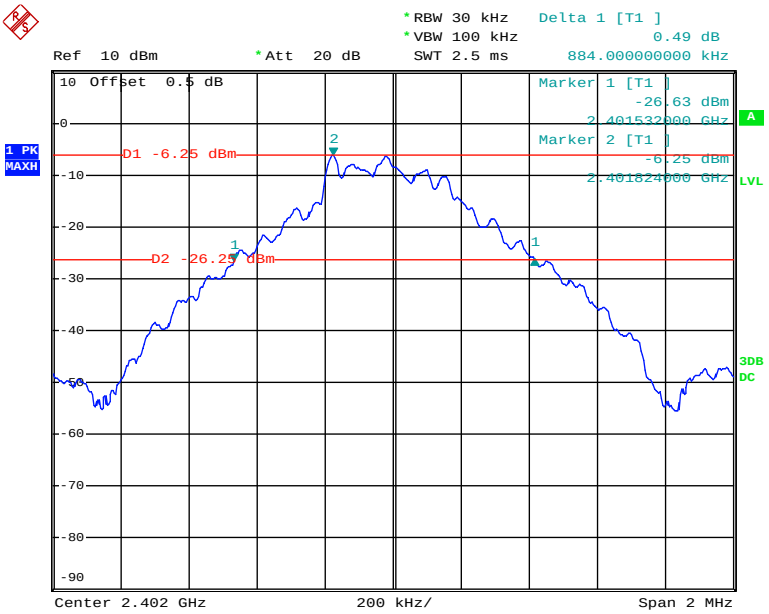
Please refer to following tables and plots

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.88
	Middle	2441	0.88
	High	2480	0.88
EDR Mode (π/4-DQPSK)	Low	2402	1.26
	Middle	2441	1.26
	High	2480	1.26
EDR Mode (8-DPSK)	Low	2402	1.26
	Middle	2441	1.27
	High	2480	1.26

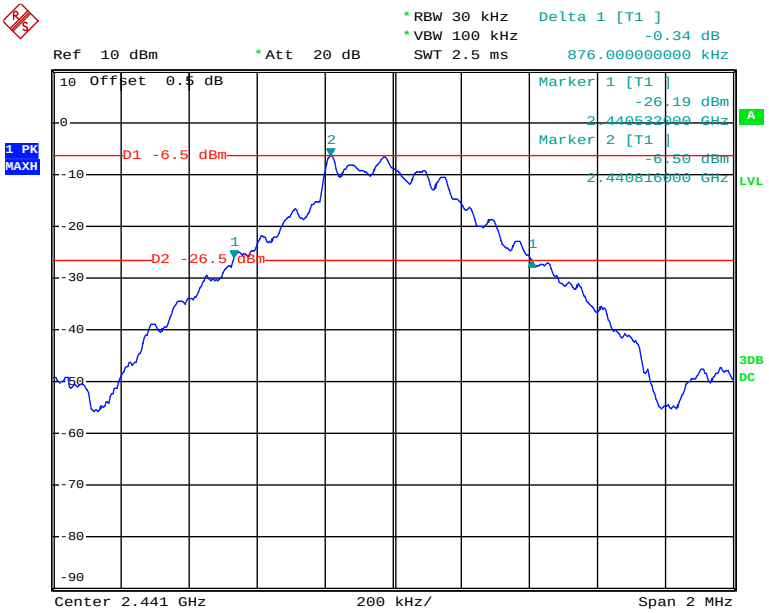
BDR Mode (GFSK):

Low Channel



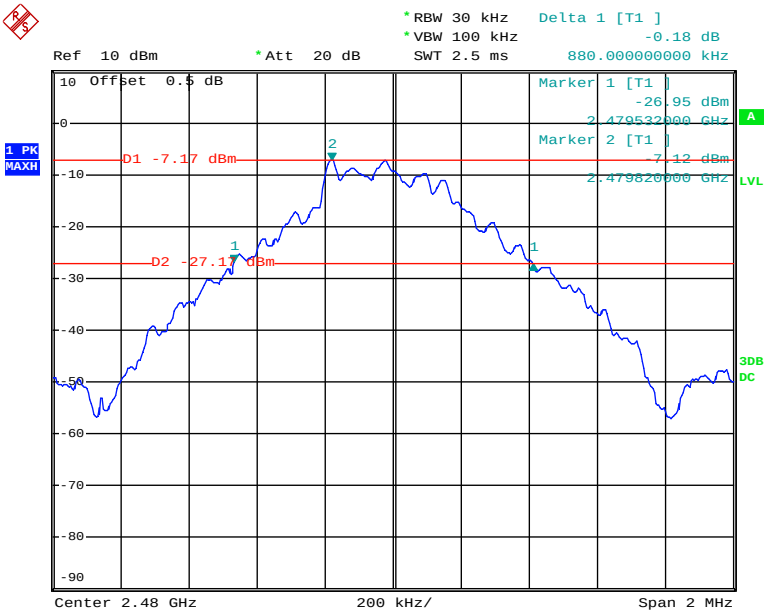
Date: 11.OCT.2017 14:17:59

Middle Channel



Date: 11.OCT.2017 14:21:06

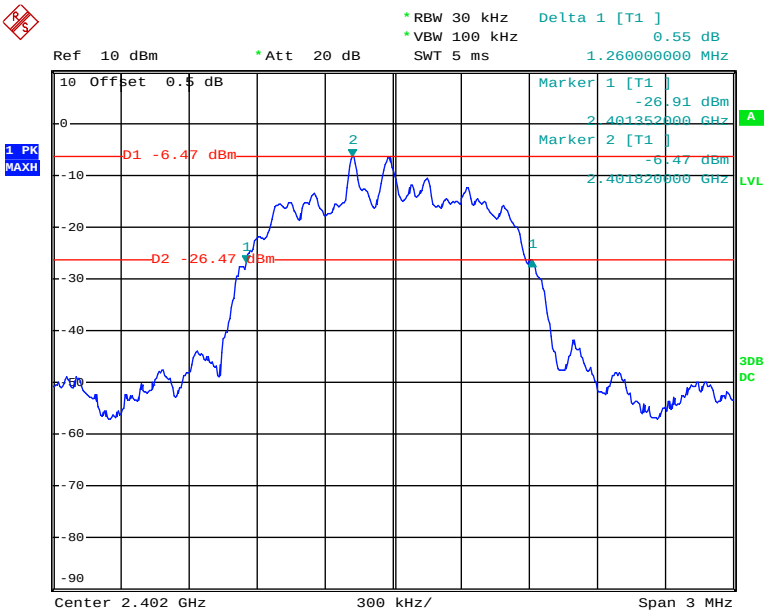
High Channel



Date: 11.OCT.2017 14:22:18

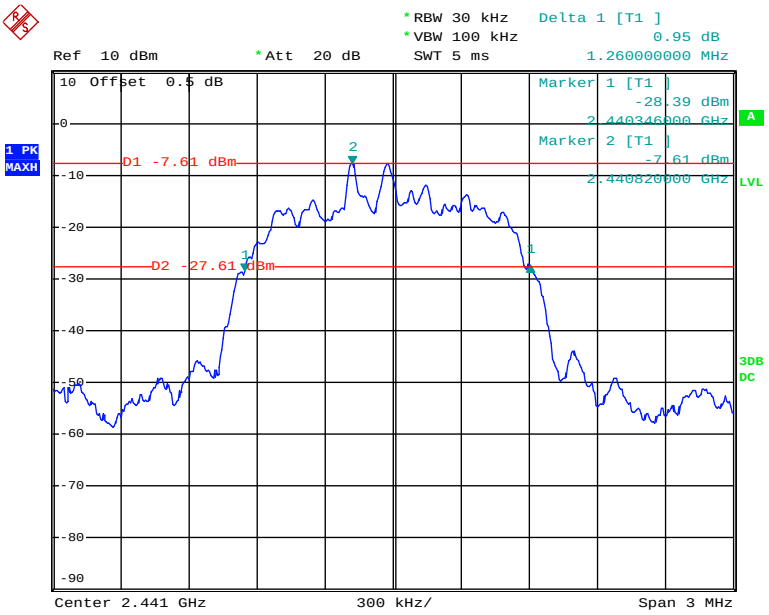
EDR Mode (π/4-DQPSK):

Low Channel



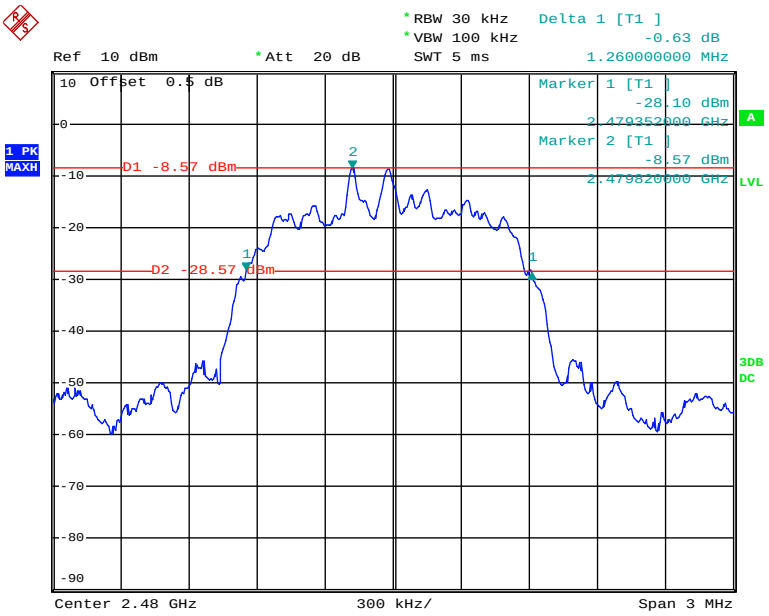
Date: 11.OCT.2017 14:25:59

Middle Channel



Date: 11.OCT.2017 14:31:24

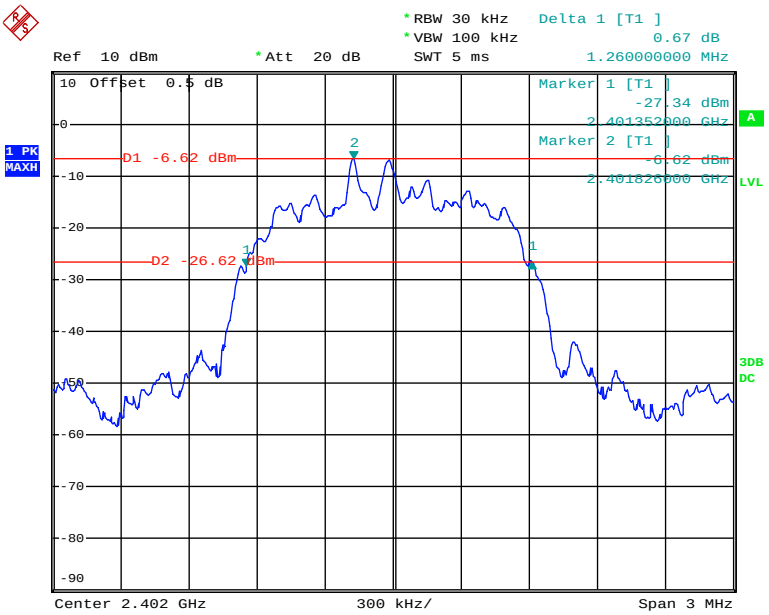
High Channel



Date: 11.OCT.2017 14:32:57

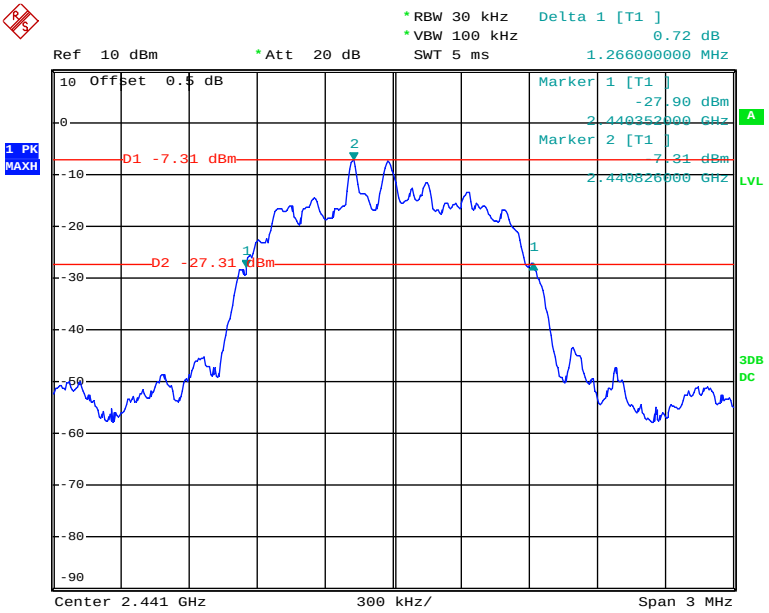
EDR Mode (8-DPSK):

Low Channel



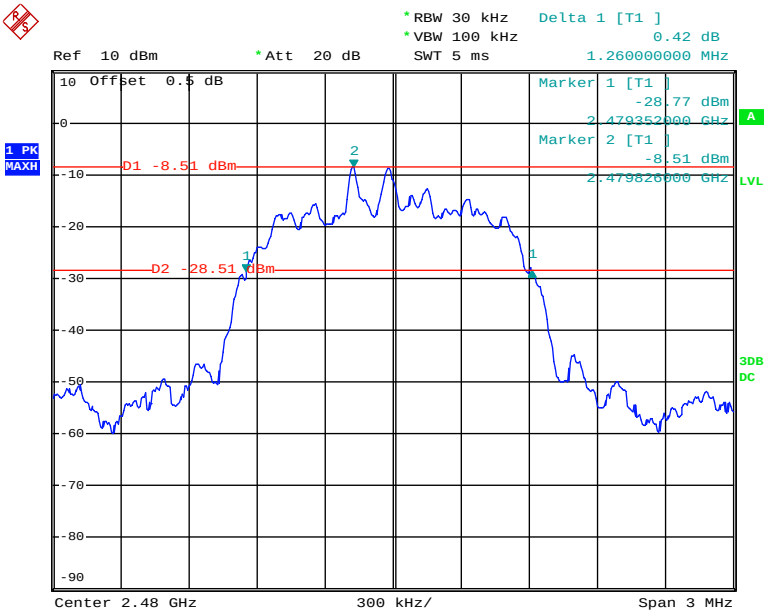
Date: 11.OCT.2017 14:37:52

Middle Channel



Date: 11.OCT.2017 14:39:03

High Channel



Date: 11.OCT.2017 14:40:01

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	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-6	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:	27.6 °C
Relative Humidity:	48 %
ATM Pressure:	100.6 kPa

** The testing was performed by George Pang on 2017-10-11.*

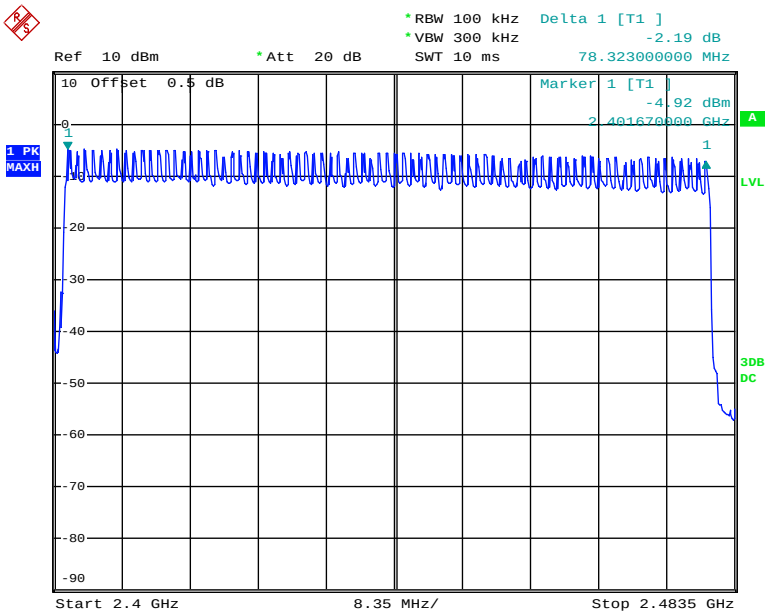
Test Result: Compliance.
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

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

Number of Hopping Channels

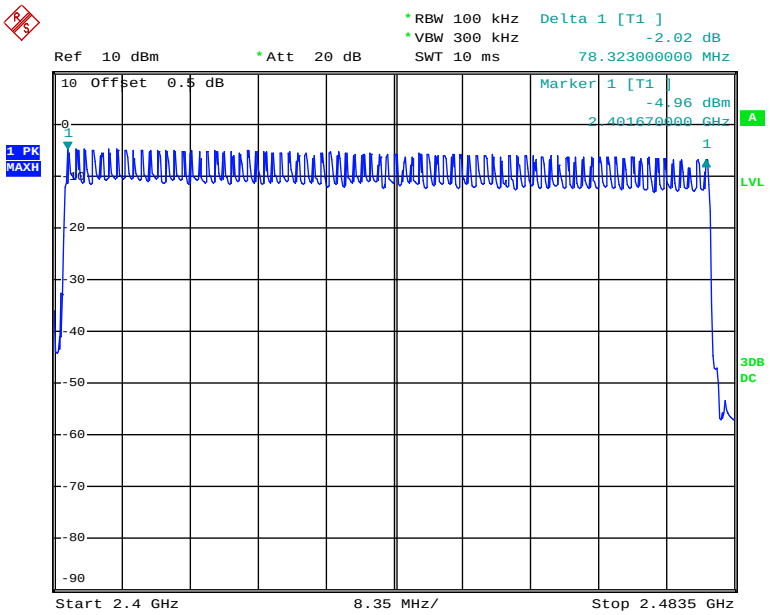


Date: 11.OCT.2017 15:01:30

EDR Mode (π/4-DQPSK):

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

Number of Hopping Channels

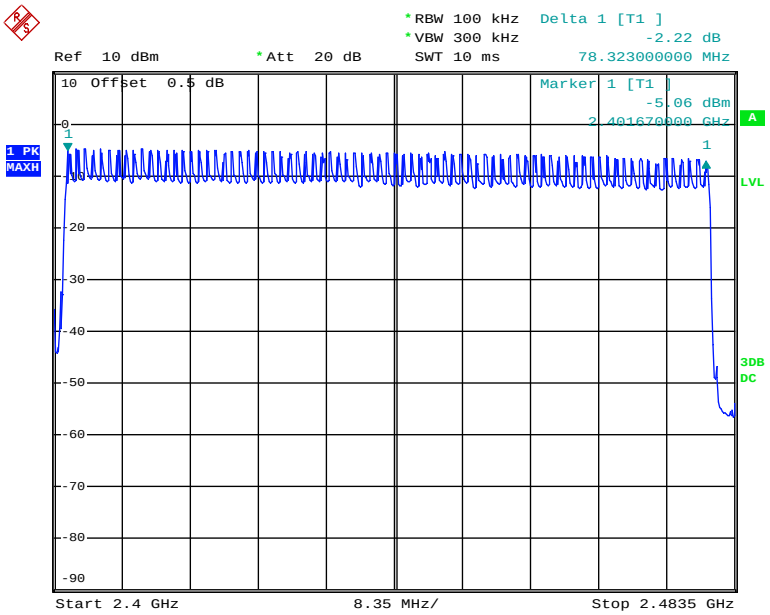


Date: 11.OCT.2017 15:07:45

EDR Mode (8-DPSK):

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

Number of Hopping Channels



Date: 11.OCT.2017 15:15:03

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	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-6	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:	27.6 °C
Relative Humidity:	48 %
ATM Pressure:	100.6 kPa

** The testing was performed by George Pang on 2017-10-11.*

Test Result: Compliance.

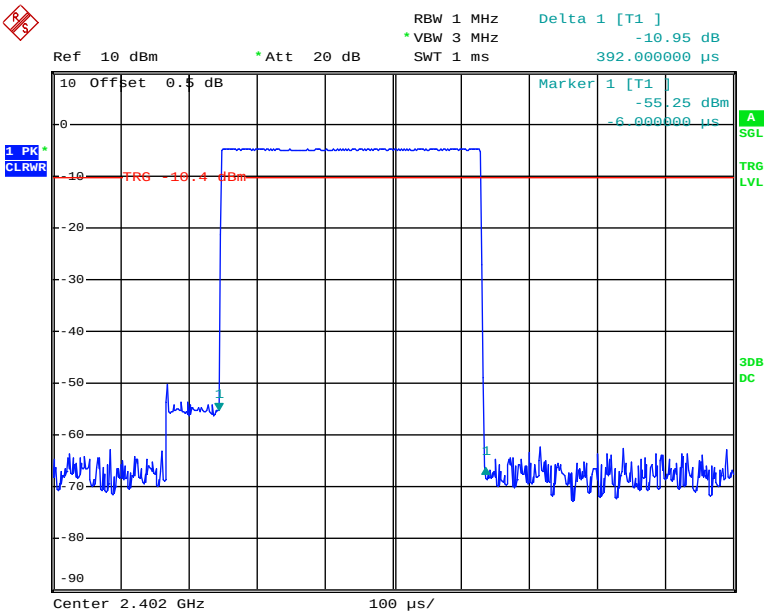
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

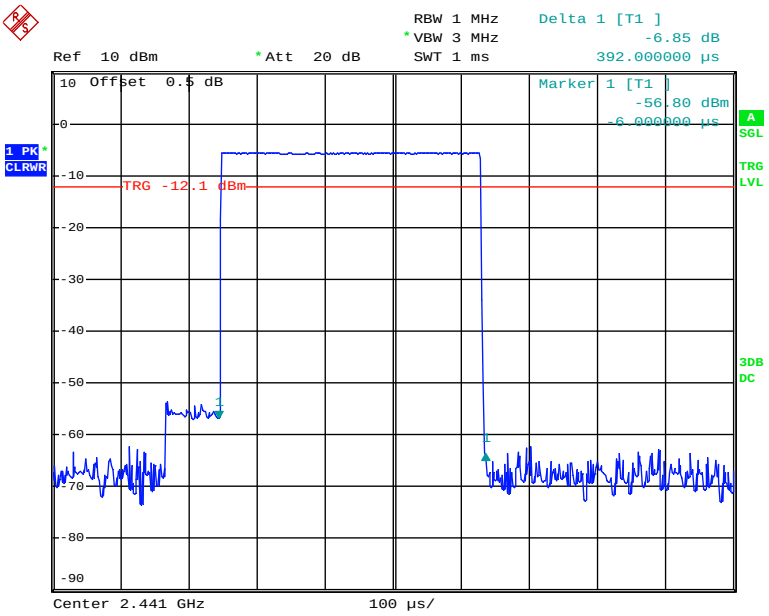
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.392	0.125	0.4	Compliance
	Middle	0.392	0.125	0.4	Compliance
	High	0.392	0.125	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s				
DH3	Low	1.662	0.266	0.4	Compliance
	Middle	1.662	0.266	0.4	Compliance
	High	1.662	0.266	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s				
DH5	Low	2.920	0.311	0.4	Compliance
	Middle	2.920	0.311	0.4	Compliance
	High	2.920	0.311	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

DH1: Low Channel



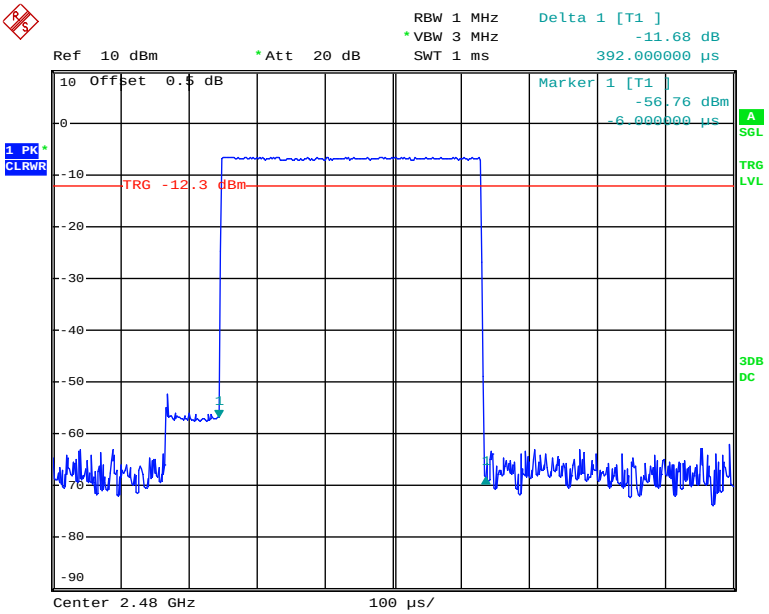
Date: 11.OCT.2017 15:16:31

DH1: Middle Channel



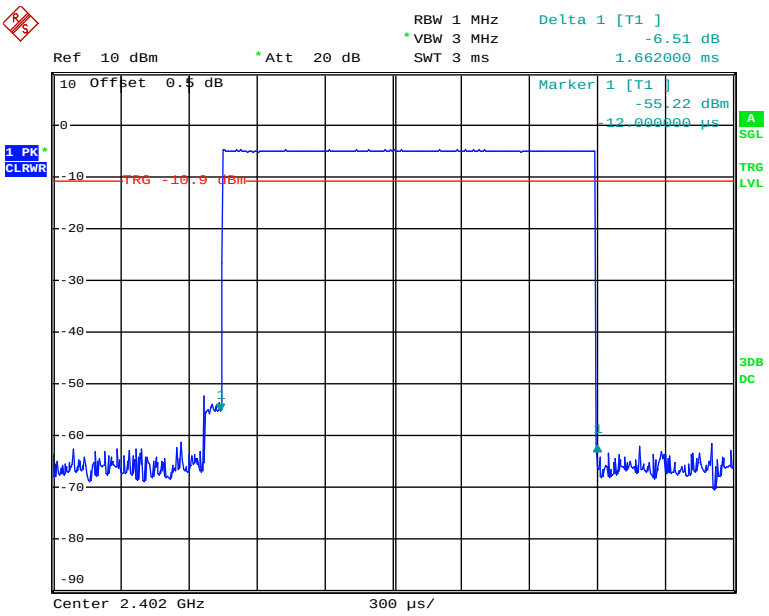
Date: 11.OCT.2017 15:16:38

DH1: High Channel



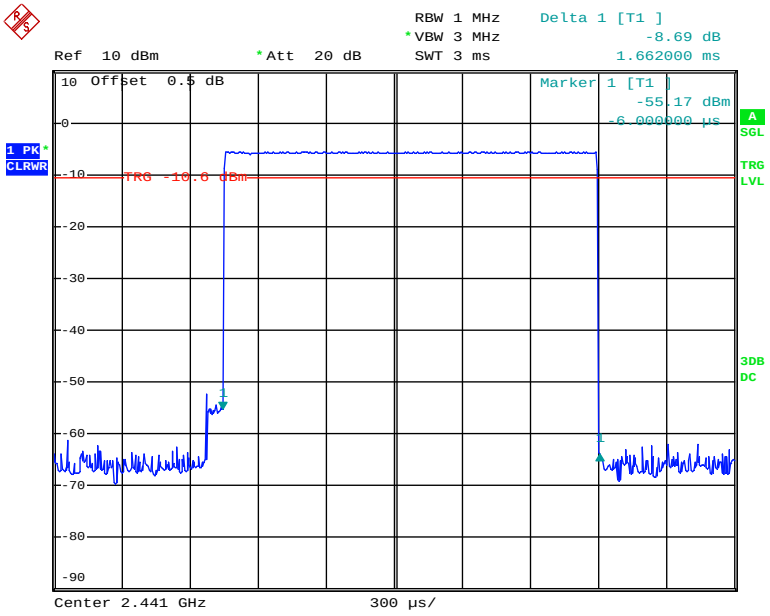
Date: 11.OCT.2017 15:16:45

DH3: Low Channel



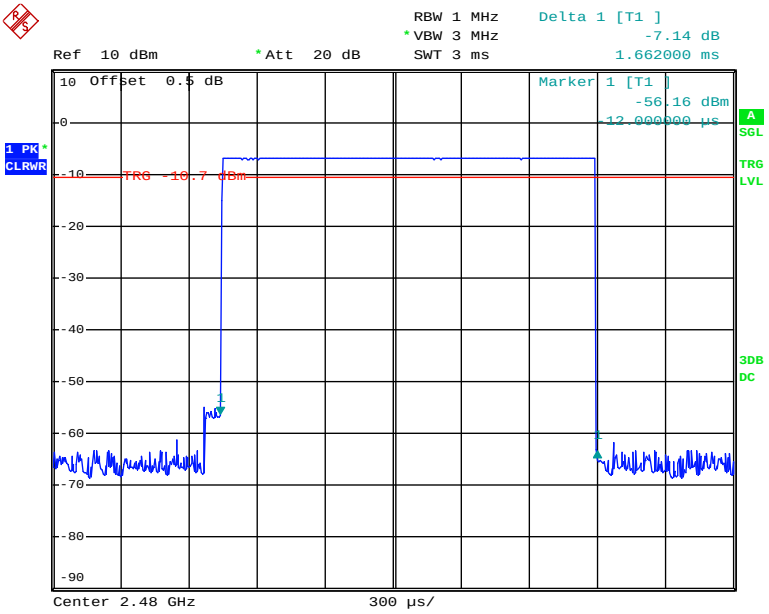
Date: 11.OCT.2017 15:20:01

DH3: Middle Channel



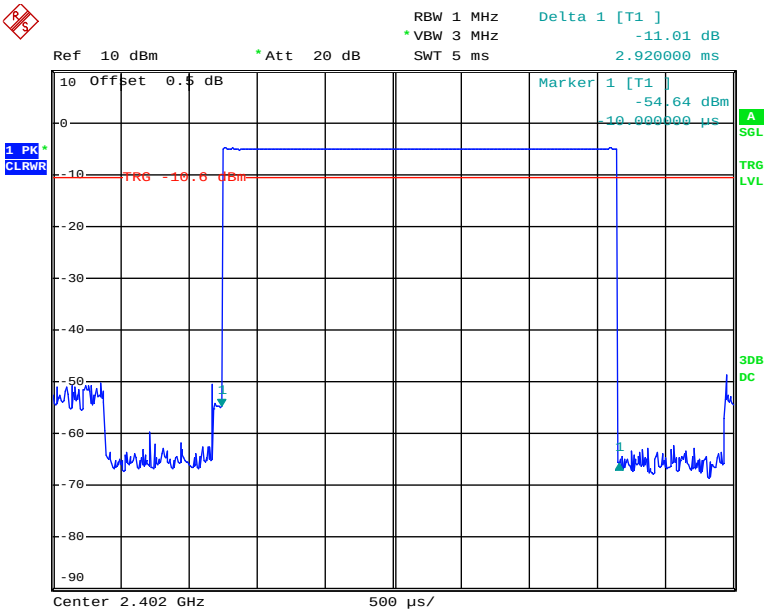
Date: 11.OCT.2017 15:20:08

DH3: High Channel



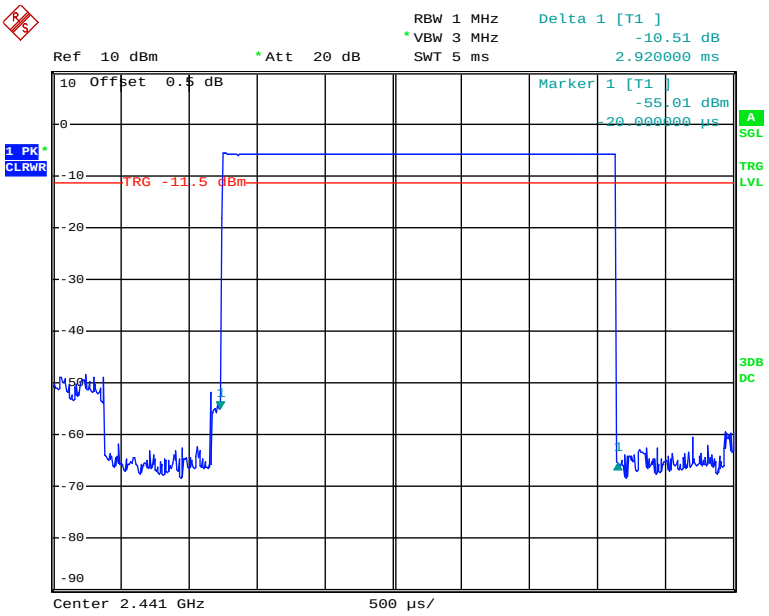
Date: 11.OCT.2017 15:20:15

DH5: Low Channel



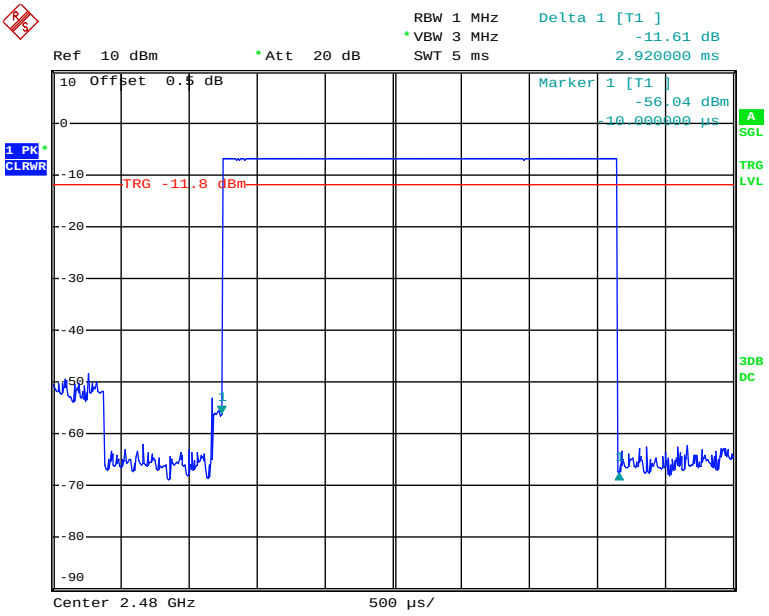
Date: 11.OCT.2017 15:22:05

DH5: Middle Channel



Date: 11.OCT.2017 15:22:12

DH5: High Channel

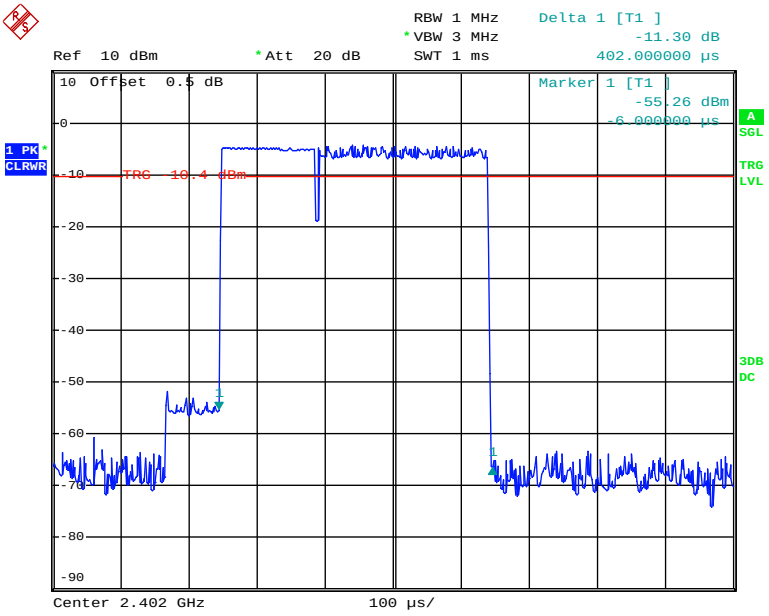


Date: 11.OCT.2017 15:22:19

EDR Mode (π/4-DQPSK):

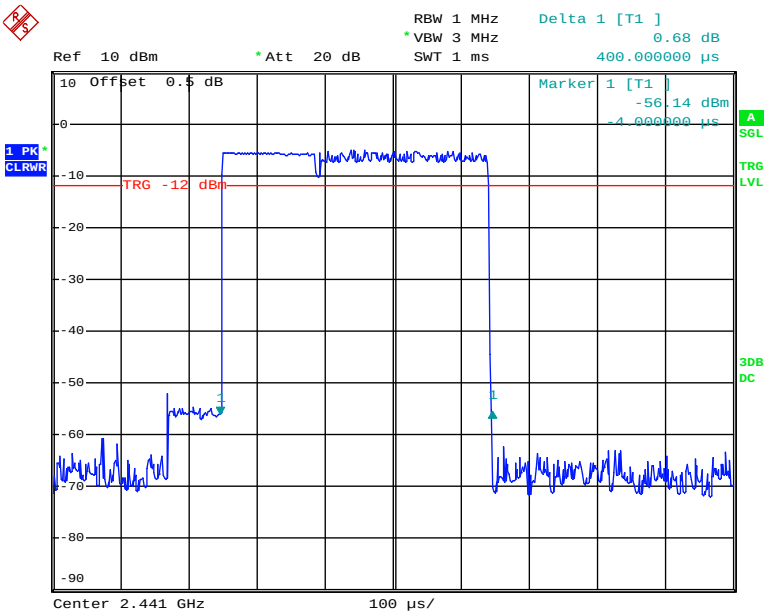
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.402	0.129	0.4	Compliance
	Middle	0.400	0.128	0.4	Compliance
	High	0.402	0.129	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s				
2DH3	Low	1.668	0.267	0.4	Compliance
	Middle	1.668	0.267	0.4	Compliance
	High	1.668	0.267	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s				
2DH5	Low	2.930	0.313	0.4	Compliance
	Middle	2.920	0.311	0.4	Compliance
	High	2.920	0.311	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

2DH1: Low Channel



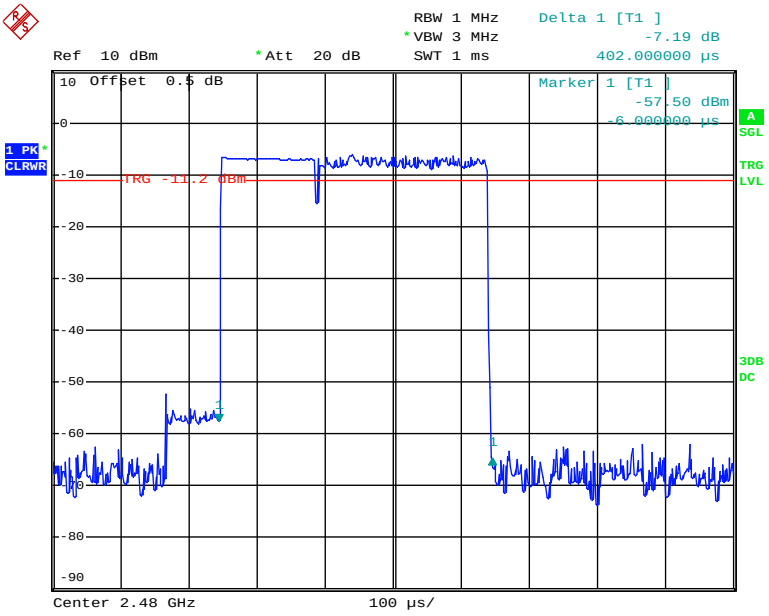
Date: 11.OCT.2017 15:23:02

2DH1: Middle Channel



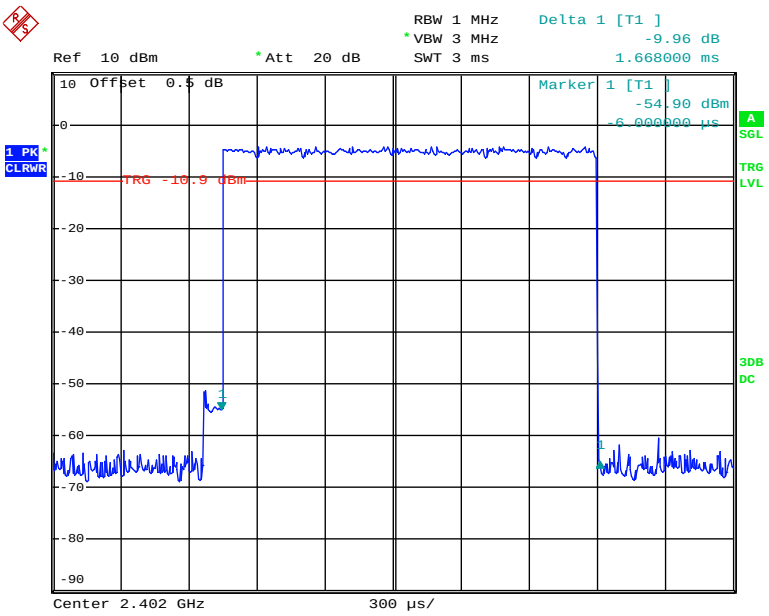
Date: 11.OCT.2017 15:23:09

2DH1: High Channel



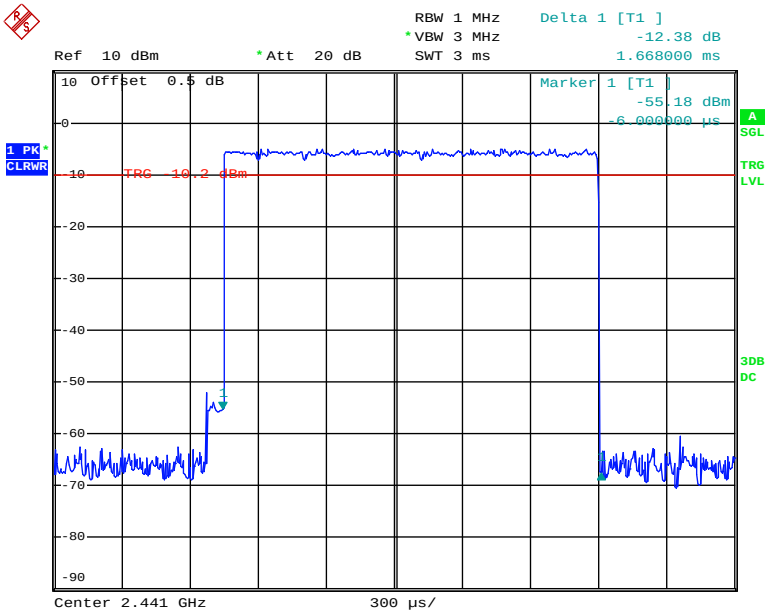
Date: 11.OCT.2017 15:23:16

2DH3: Low Channel



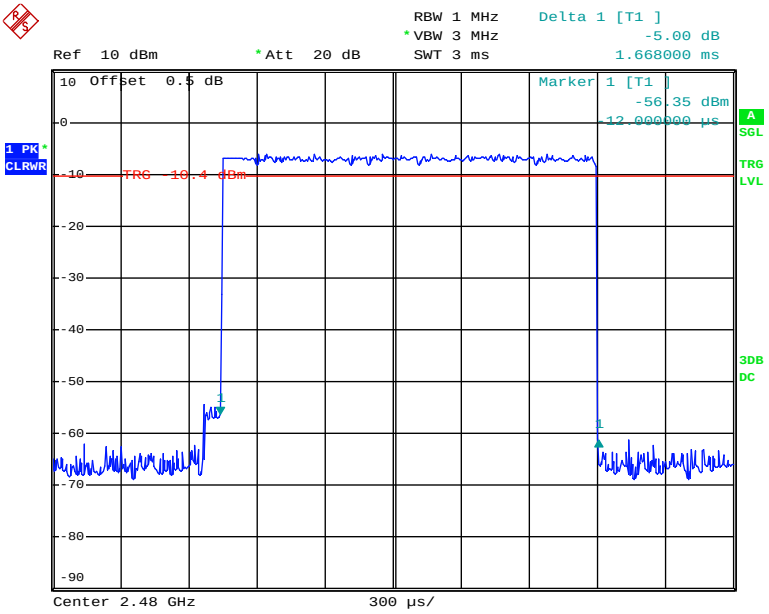
Date: 11.OCT.2017 15:24:46

2DH3: Middle Channel



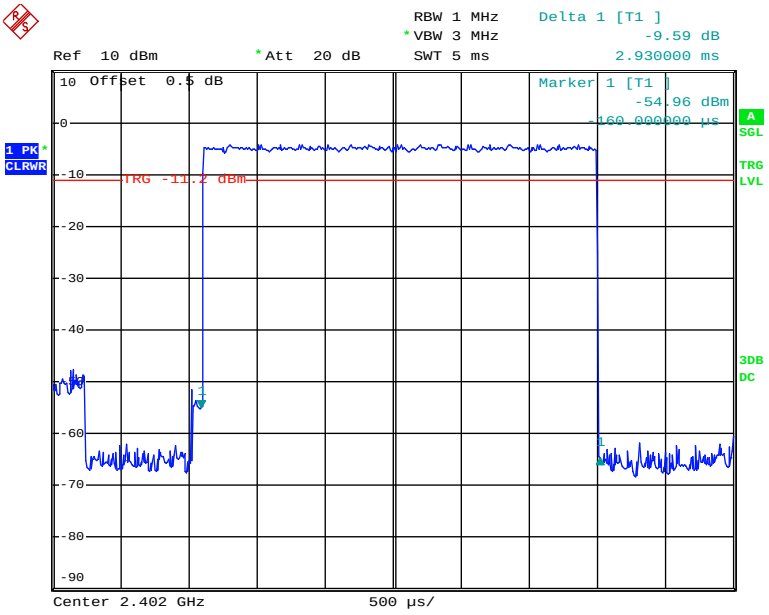
Date: 11.OCT.2017 15:24:52

2DH3: High Channel



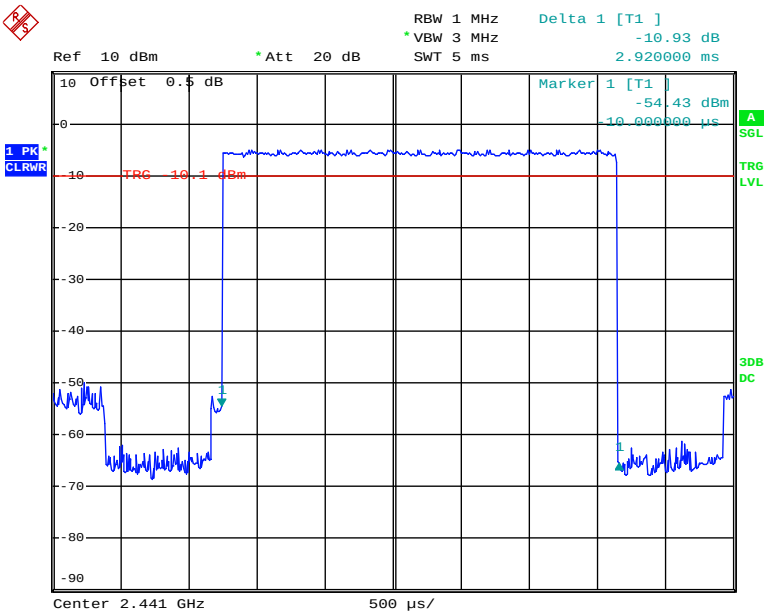
Date: 11.OCT.2017 15:24:59

2DH5: Low Channel



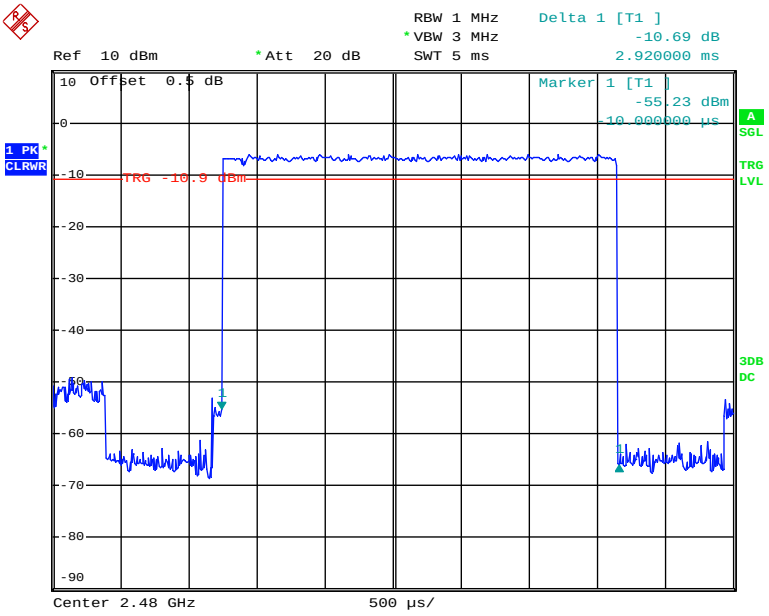
Date: 11.OCT.2017 15:30:00

2DH5: Middle Channel



Date: 11.OCT.2017 15:30:07

2DH5: High Channel

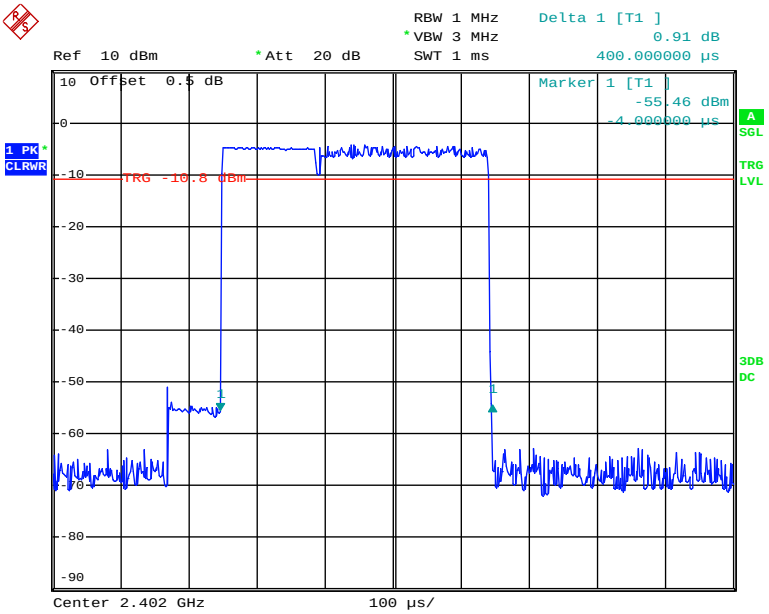


Date: 11.OCT.2017 15:30:14

EDR Mode (8-DPSK):

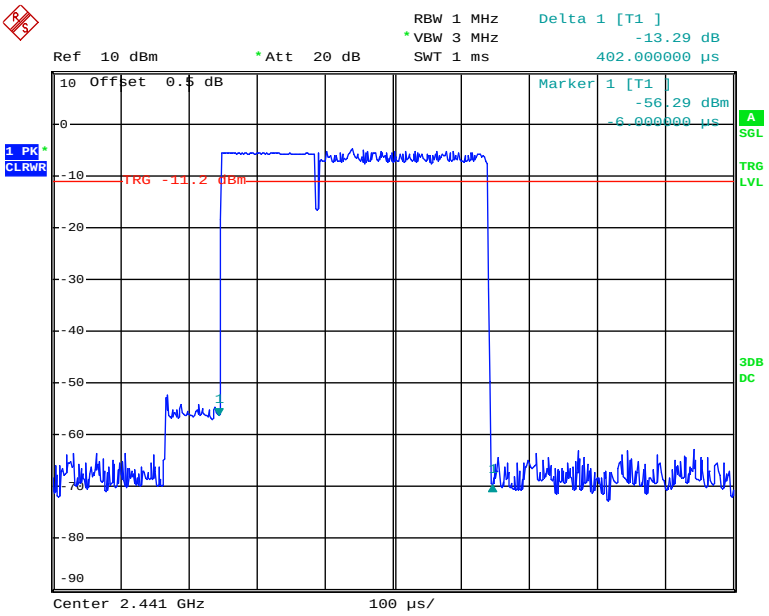
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
3DH1	Low	0.400	0.128	0.4	Compliance
	Middle	0.402	0.129	0.4	Compliance
	High	0.400	0.128	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s				
3DH3	Low	1.668	0.267	0.4	Compliance
	Middle	1.668	0.267	0.4	Compliance
	High	1.668	0.267	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s				
3DH5	Low	2.930	0.313	0.4	Compliance
	Middle	2.920	0.311	0.4	Compliance
	High	2.920	0.311	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

3DH1: Low Channel



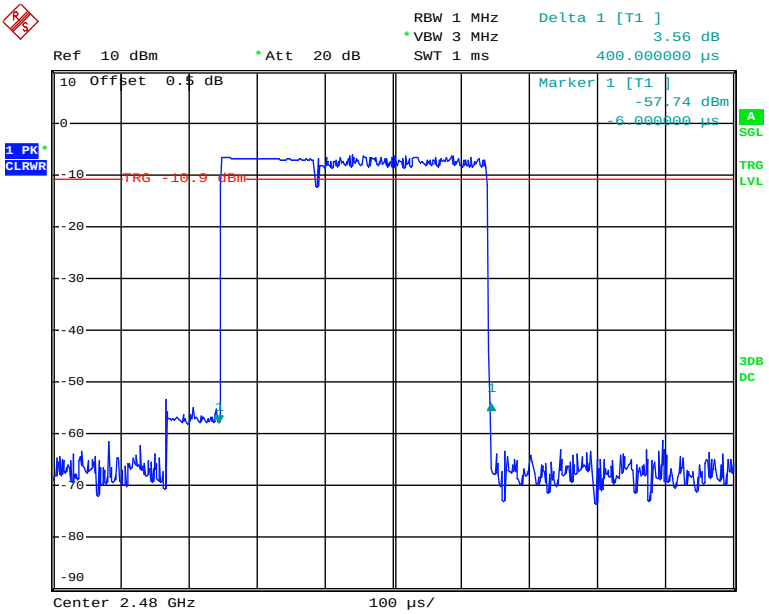
Date: 11.OCT.2017 15:31:18

3DH1: Middle Channel



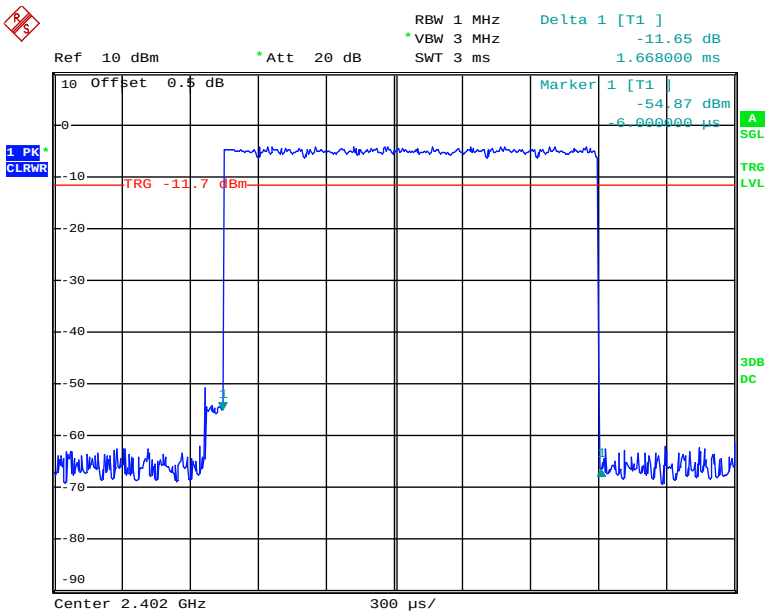
Date: 11.OCT.2017 15:31:25

3DH1: High Channel



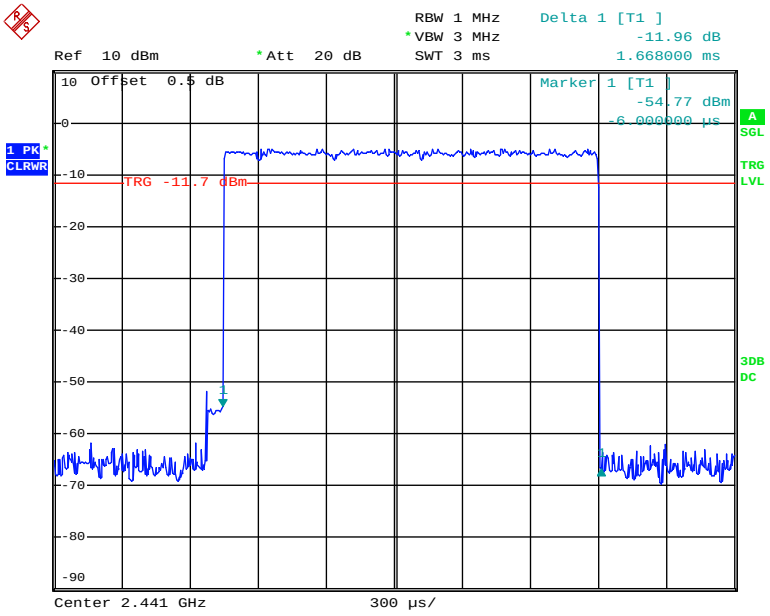
Date: 11.OCT.2017 15:31:32

3DH3: Low Channel



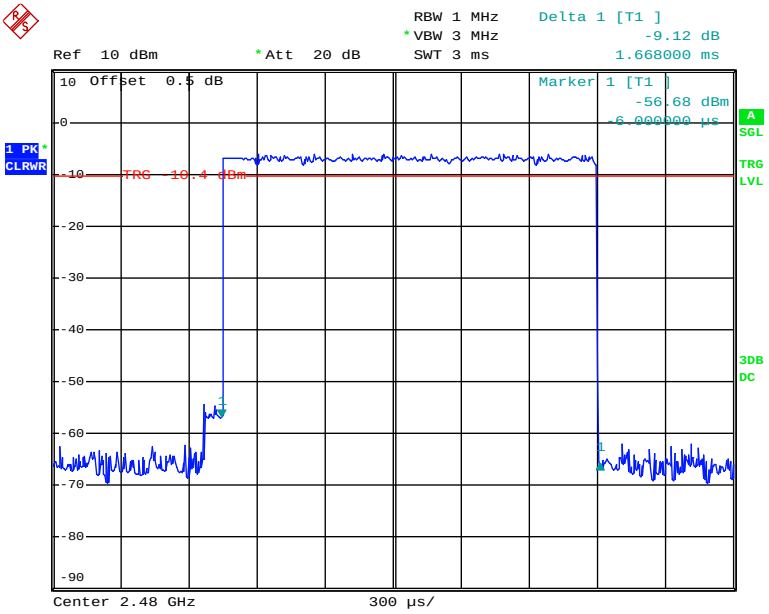
Date: 11.OCT.2017 15:33:25

3DH3: Middle Channel



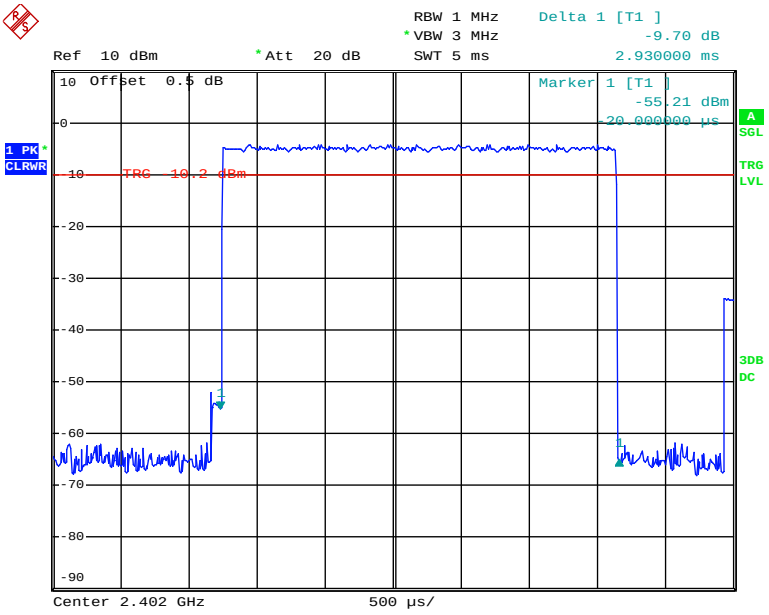
Date: 11.OCT.2017 15:33:32

3DH3: High Channel



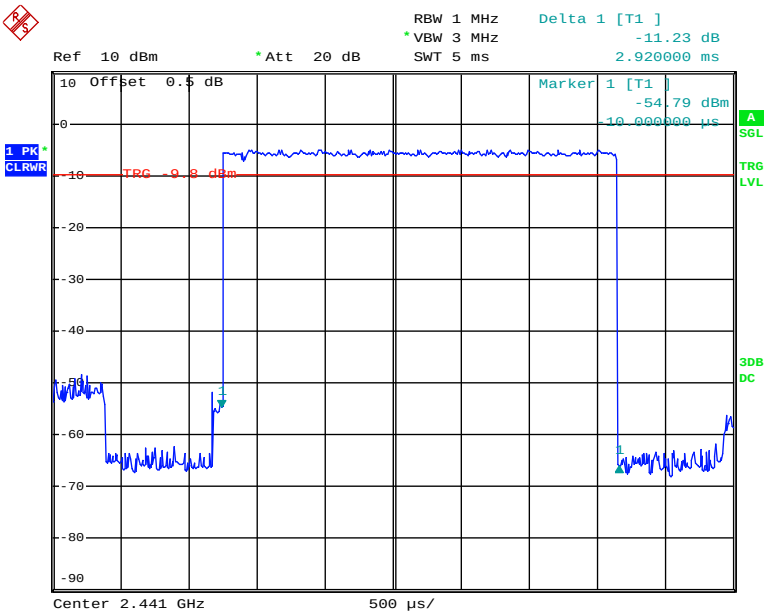
Date: 11.OCT.2017 15:33:39

3DH5: Low Channel



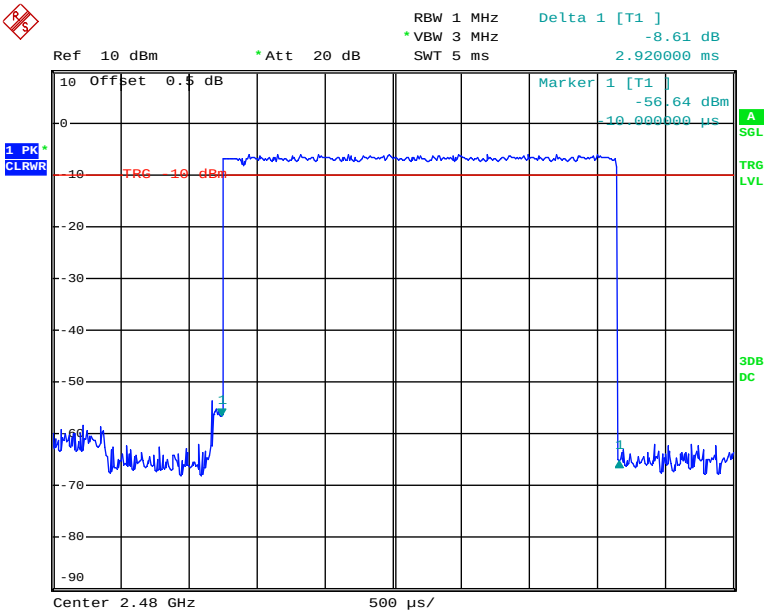
Date: 11.OCT.2017 15:35:00

3DH5: Middle Channel



Date: 11.OCT.2017 15:35:07

3DH5: High Channel



Date: 11.OCT.2017 15:35:15

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	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-6	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:	27.6 °C
Relative Humidity:	48 %
ATM Pressure:	100.6 kPa

** The testing was performed by George Pang on 2017-10-11.*

Test Result: Compliance.

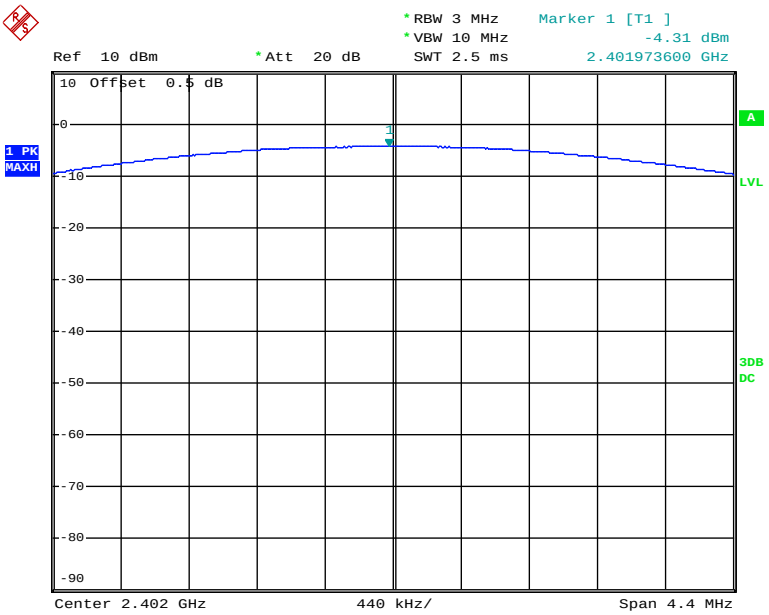
Test Mode: Transmitting

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	-4.31	30
	2441	-4.53	30
	2480	-5.11	30
EDR Mode (π/4-DQPSK)	2402	-3.12	30
	2441	-4.38	30
	2480	-5.35	30
EDR Mode (8-DPSK)	2402	-3.43	30
	2441	-4.16	30
	2480	-5.32	30

Note: The data above was tested in conducted mode.

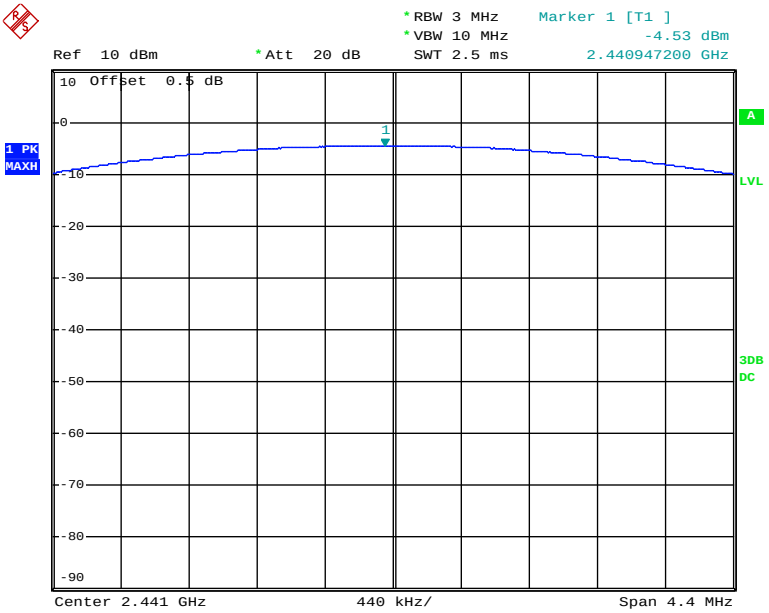
BDR Mode (GFSK):

Low Channel



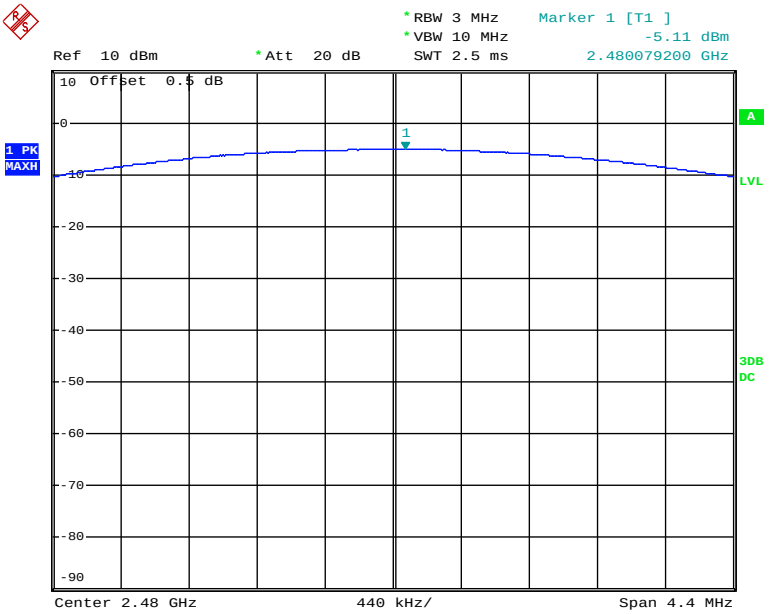
Date: 11.OCT.2017 14:18:22

Middle Channel



Date: 11.OCT.2017 14:21:28

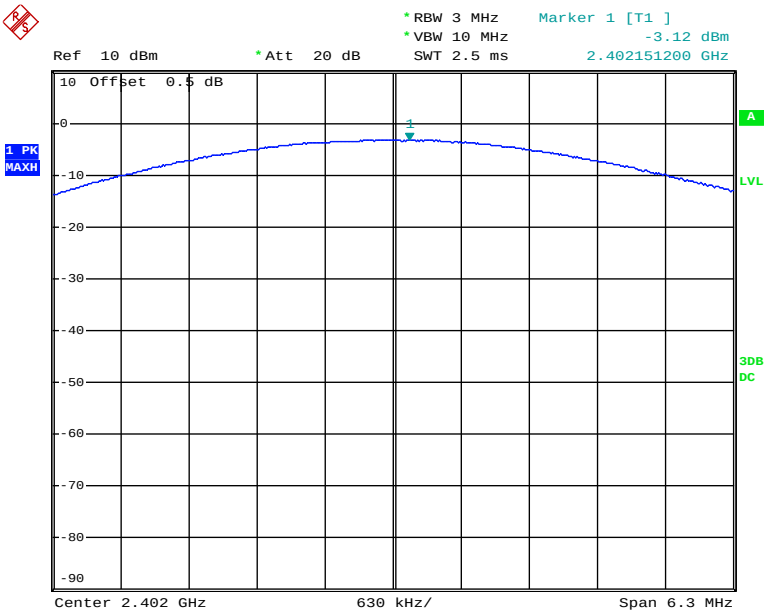
High Channel



Date: 11.OCT.2017 14:22:39

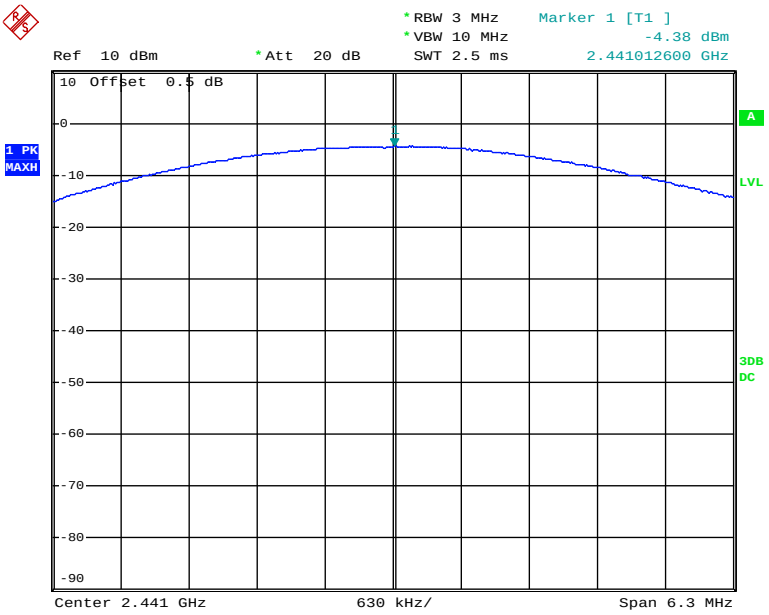
EDR Mode (π/4-DQPSK):

Low Channel



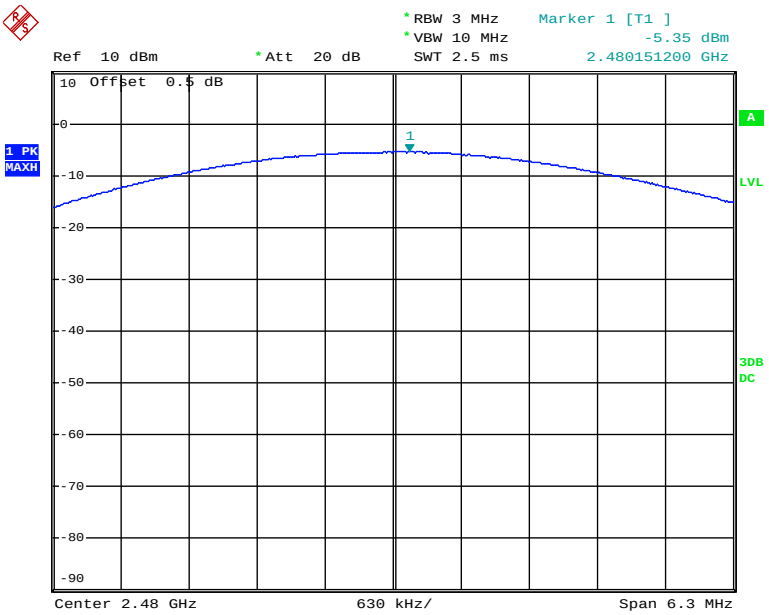
Date: 11.OCT.2017 14:26:21

Middle Channel



Date: 11.OCT.2017 14:31:47

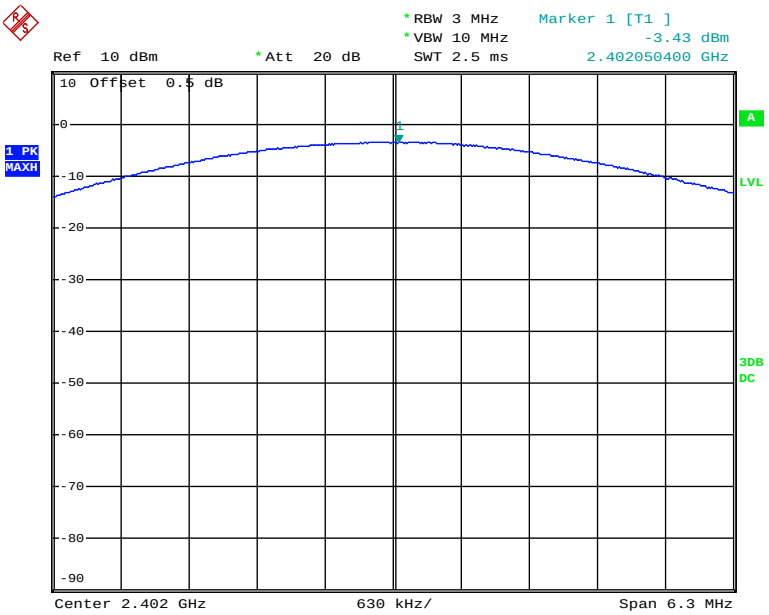
High Channel



Date: 11.OCT.2017 14:33:18

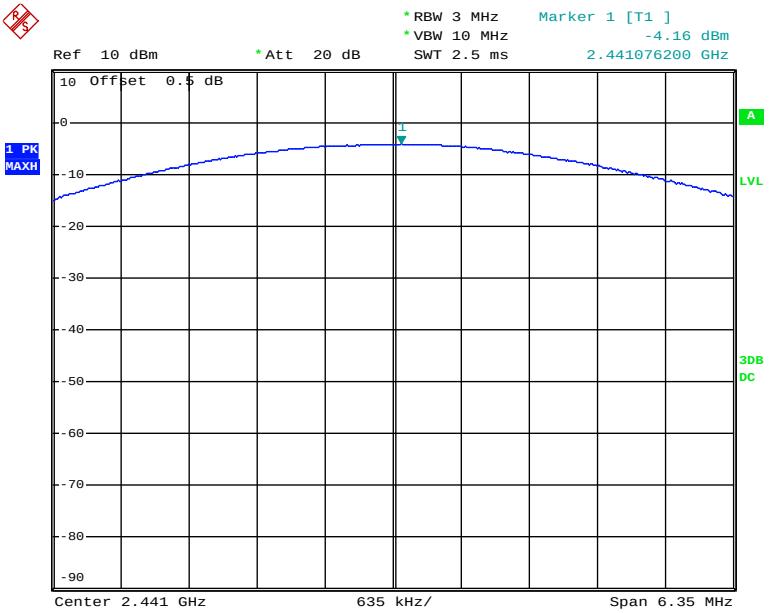
EDR Mode (8-DPSK):

Low Channel



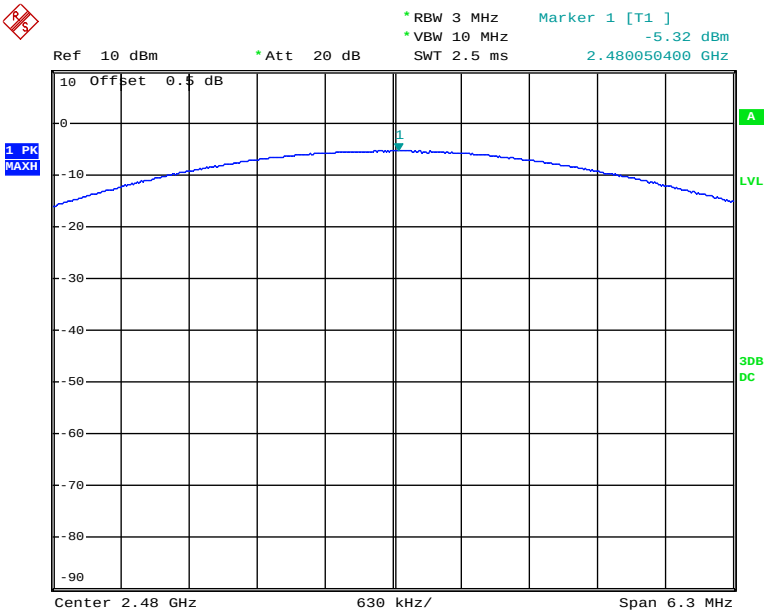
Date: 11.OCT.2017 14:38:14

Middle Channel



Date: 11.OCT.2017 14:39:25

High Channel



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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	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-6	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

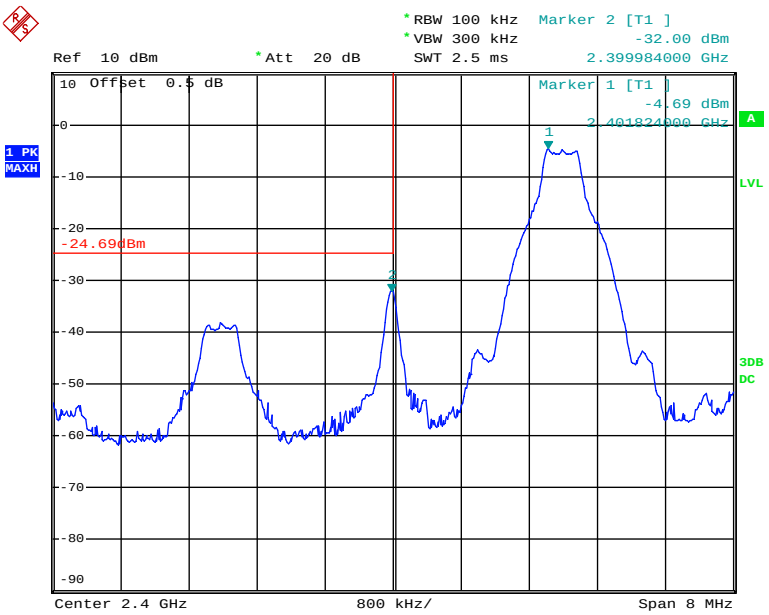
Temperature:	27.6 °C
Relative Humidity:	48 %
ATM Pressure:	100.6 kPa

** The testing was performed by George Pang on 2017-10-11.*

Test Result: Compliance

BDR Mode (GFSK):

Band Edge, Left Side



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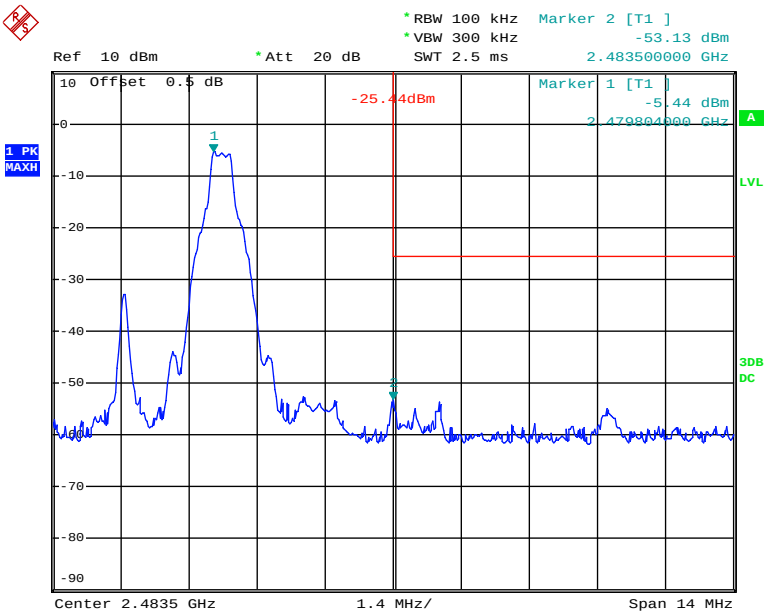
Band Edge, Right Side



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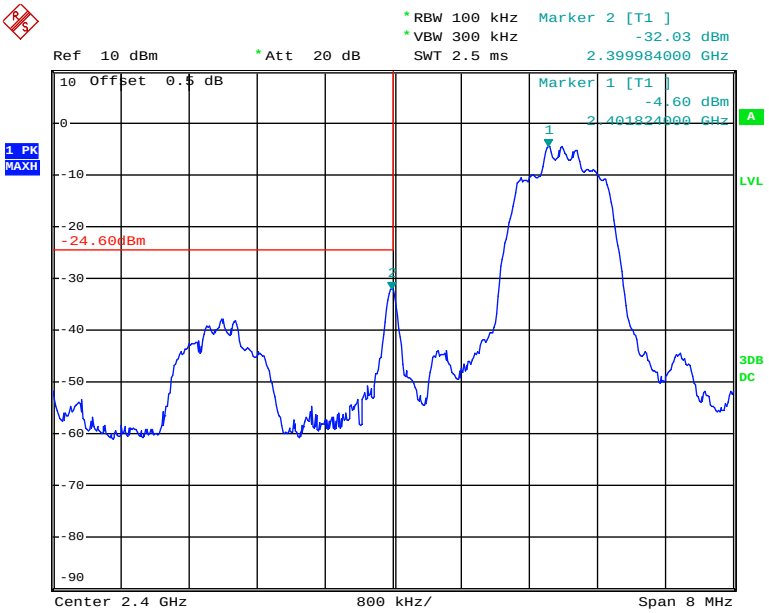
EDR Mode (π/4-DQPSK):

Band Edge, Left Side



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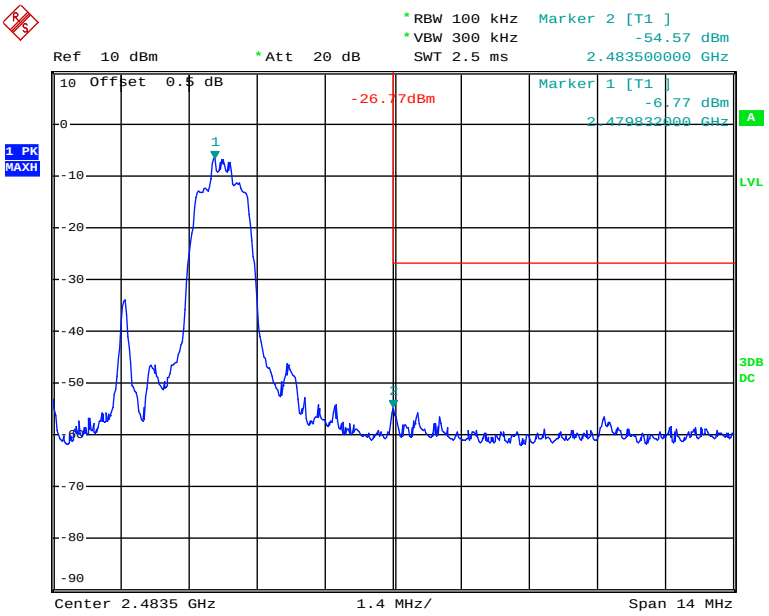
Band Edge, Right Side



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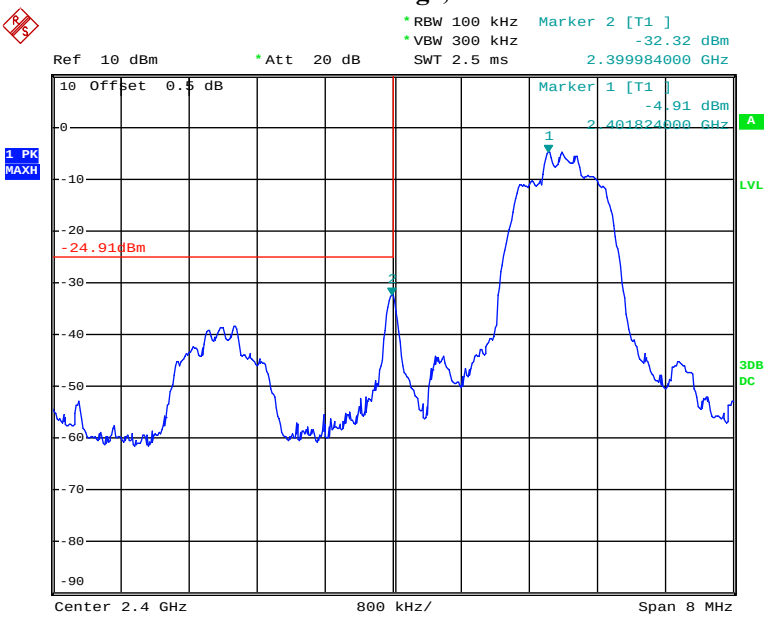
EDR Mode (8-DPSK):

Band Edge, Left Side



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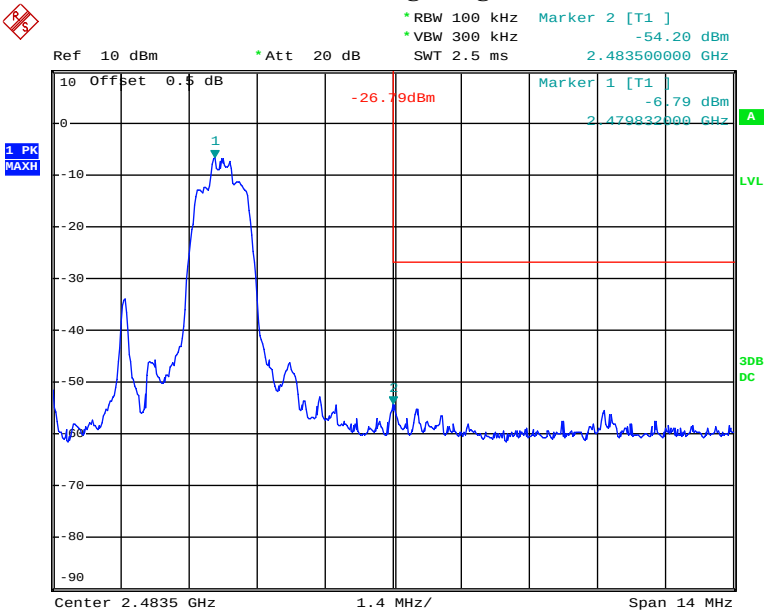
Band Edge, Right Side



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