



FCC PART 15.247  
TEST REPORT

For

**Shenzhen Linpa Technology Co., Ltd**

114, C8, Flavor Commercial Street, Vanke Dream Town Longgang District, Shenzhen City, China

**FCC ID: GTOLBS18**

<b>Report Type:</b> Original Report	<b>Product Type:</b> BT HEADPHONE
<b>Test Engineer:</b> Simon Wang	<i>Simon wang</i>
<b>Report Number:</b> RSZ150205013-00	
<b>Report Date:</b> 2015-02-15	
<b>Reviewed By:</b> Jimmy Xiao RF Engineer	<i>Jimmy xiao</i>
<b>Prepared By:</b> Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 <a href="http://www.baclcorp.com.cn">www.baclcorp.com.cn</a>	

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

## TABLE OF CONTENTS

<b>GENERAL INFORMATION.....</b>	<b>4</b>
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	4
OBJECTIVE .....	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY .....	4
TEST FACILITY .....	5
<b>SYSTEM TEST CONFIGURATION.....</b>	<b>6</b>
DESCRIPTION OF TEST CONFIGURATION .....	6
EUT EXERCISE SOFTWARE .....	6
SPECIAL ACCESSORIES.....	6
EQUIPMENT MODIFICATIONS .....	6
SUPPORT EQUIPMENT LIST AND DETAILS .....	6
EXTERNAL I/O CABLE.....	7
BLOCK DIAGRAM OF TEST SETUP .....	7
<b>SUMMARY OF TEST RESULTS.....</b>	<b>8</b>
<b>FCC §15.247 (i) &amp; §2.1093 – RF EXPOSURE.....</b>	<b>9</b>
APPLICABLE STANDARD .....	9
<b>FCC §15.203 – ANTENNA REQUIREMENT.....</b>	<b>10</b>
APPLICABLE STANDARD .....	10
ANTENNA CONNECTOR CONSTRUCTION .....	10
<b>FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS.....</b>	<b>11</b>
APPLICABLE STANDARD .....	11
MEASUREMENT UNCERTAINTY.....	11
EUT SETUP.....	11
EMI TEST RECEIVER SETUP.....	12
TEST PROCEDURE .....	12
TEST EQUIPMENT LIST AND DETAILS.....	12
CORRECTED FACTOR & MARGIN CALCULATION .....	12
TEST RESULTS SUMMARY .....	13
TEST DATA .....	13
<b>FCC §15.205, §15.209 &amp; §15.247(d) – RADIATED EMISSIONS.....</b>	<b>16</b>
APPLICABLE STANDARD .....	16
MEASUREMENT UNCERTAINTY.....	16
EUT SETUP.....	16
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP .....	16
TEST PROCEDURE .....	17
CORRECTED AMPLITUDE & MARGIN CALCULATION .....	17
TEST EQUIPMENT LIST AND DETAILS.....	17
TEST RESULTS SUMMARY .....	18
TEST DATA .....	18
<b>FCC §15.247(a) (1)-CHANNEL SEPARATION TEST.....</b>	<b>21</b>
APPLICABLE STANDARD .....	21
TEST PROCEDURE .....	21
TEST EQUIPMENT LIST AND DETAILS.....	21
TEST DATA .....	21

**FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH.....28**  
 APPLICABLE STANDARD .....28  
 TEST PROCEDURE .....28  
 TEST EQUIPMENT LIST AND DETAILS.....28  
 TEST DATA .....28

**FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST .....34**  
 APPLICABLE STANDARD .....34  
 TEST PROCEDURE .....34  
 TEST EQUIPMENT LIST AND DETAILS.....34  
 TEST DATA .....34

**FCC §15.247(a) (1) (iii) -TIME OF OCCUPANCY (DWELL TIME).....37**  
 APPLICABLE STANDARD .....37  
 TEST PROCEDURE .....37  
 TEST EQUIPMENT LIST AND DETAILS.....37  
 TEST DATA .....37

**FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT .....53**  
 APPLICABLE STANDARD .....53  
 TEST PROCEDURE .....53  
 TEST EQUIPMENT LIST AND DETAILS.....53  
 TEST DATA .....53

**FCC §15.247(d) - BAND EDGES TESTING .....59**  
 APPLICABLE STANDARD .....59  
 TEST PROCEDURE .....59  
 TEST EQUIPMENT LIST AND DETAILS.....59  
 TEST DATA .....59

**PRODUCT SIMILARITY DECLARATION LETTER.....64**

## GENERAL INFORMATION

---

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

The *Shenzhen Linpa Technology Co., Ltd*'s product, model number: *LBS18 (FCC ID:GTOLBS18)* or the "EUT" in this report was a *BT HEADPHONE*, which was measured approximately: 17.3 cm (L) x 16 cm (W) x 5.1 cm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC5.0 V from USB port.

*Note: The product, series model LBS18 and PBT98 are identical schematics, and the model LBS18 which was selected for fully testing, they are just different for model number, which was explained in the attached declaration letter.*

*\*All measurement and test data in this report was gathered from production sample serial number: 1502060 (Assigned by Shenzhen BAACL). The EUT supplied by the applicant was received on 2015-02-05*

### Objective

This test report is prepared on behalf of *Shenzhen Linpa Technology Co., Ltd* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

### Related Submittal(s)/Grant(s)

No related submissions /grants.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz, and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

## **Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3<sup>rd</sup> Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was controlled by the test software.

### EUT Exercise Software

N/A

### Special Accessories

No special accessory.

### Equipment Modifications

No modification was made to the EUT tested.

### Support Equipment List and Details

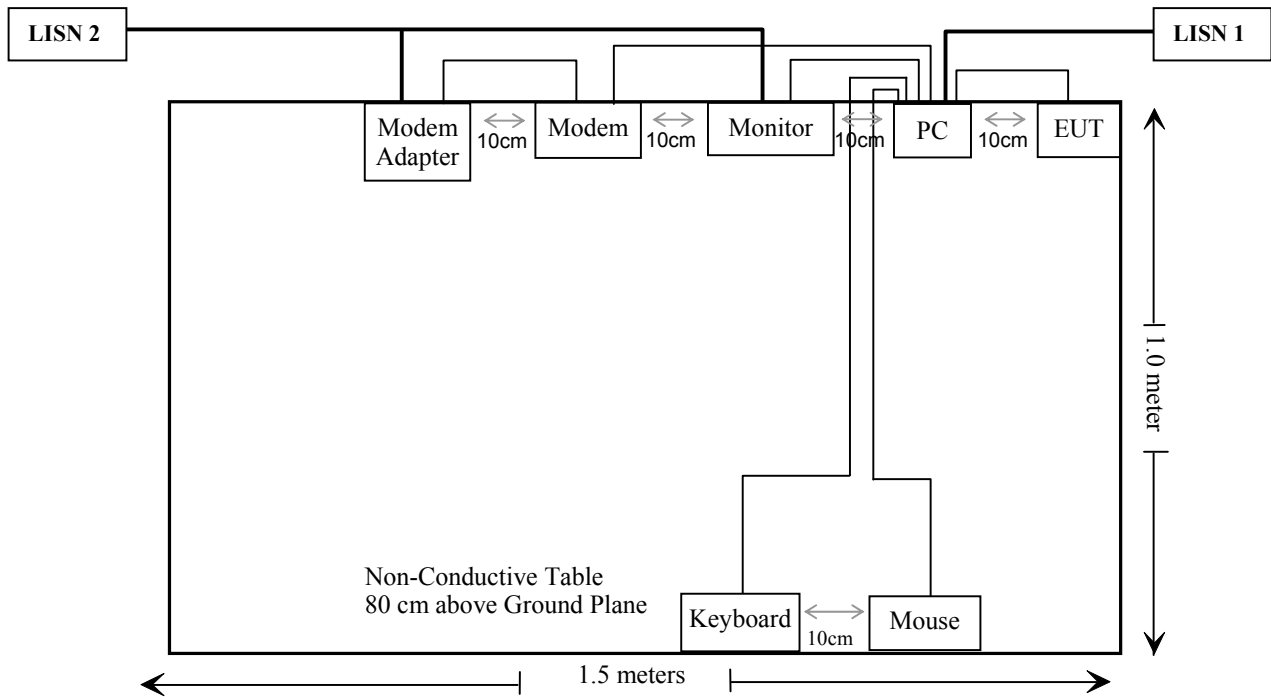
Manufacturer	Description	Model	Serial Number
DELL	PC	VOSTRO 220S	127BP2X
DELL	LCD Monitor	E178WFPC	CN-OWY564-64180-7C4-2SQH
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Mouse	MOC5UO	G1900NKD
SAST	Modem	AEM-2100	0293
Kingston	Micro SD card	4 GB	/

**External I/O Cable**

Cable Description	Length (m)	From / Port	To
Shielded Undetachable K/B Cable	1.5	Keyboard	PC
Shielded Undetachable Mouse Cable	1.5	Mouse	PC
Unshielded Undetachable DC Cable	1.0	Modem	Modem Adapter
Unshielded Detachable AC Cable	1.0	Modem Adapter	Main
Shielded Detachable VGA Cable	1.5	Monitor	PC
Unshielded Detachable RS232 Cable	1.5	Modem	PC
Unshielded Detachable AC Cable	1.0	Main	Monitor
Unshielded Detachable AC Cable	1.0	Main	PC
Unshielded Undetachable DC Cable	1.0	EUT	PC

**Block Diagram of Test Setup**

For conducted emission



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
§15.247 (i), §1.1307 (b)(1), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliance
§15.247(a)(1)	20 dB Emission 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) & §2.1093 – RF EXPOSURE**

### **Applicable Standard**

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

According to KDB447498 D01 General RF Exposure Guidance v05r02:

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

### **Measurement Result**

The maximum conducted output power = 5.35 dBm = 3.43 mW at 2480 MHz

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 3.43/5 \cdot (\sqrt{2.48}) = 1.0 < 3.0$

**Result: No SAR test is required**

---

## **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 a PCB antenna arrangement for BT, which was permanently attached and the gain was 2 dBi, fulfill the requirement of this section. Please refer to the internal photos.

**Result:** Compliance.

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

### Applicable Standard

FCC §15.207(a)

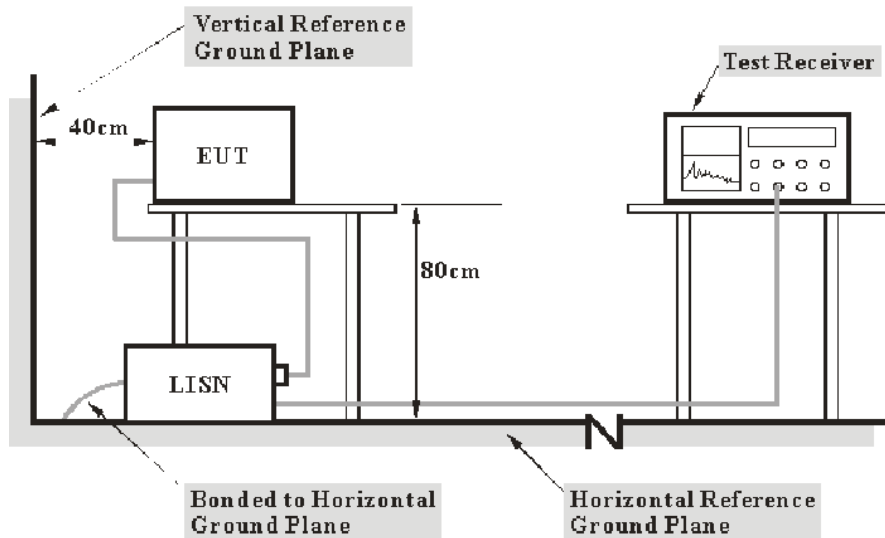
### Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements may be receiver reading, attenuation of the connection between LISN/ISN and receiver, LISN/ISN voltage division factor, LISN/ISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

Port	Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 dB (k=2, 95% level of confidence)

### 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 measurement procedure of EUT setup is according with ANSI C63.4-2009. The related limit was specified in FCC Part 15.207.

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

### EMI Test Receiver Setup

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

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

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

### Test Procedure

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.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2014-06-03	2015-06-03
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2014-05-07	2015-05-07
Rohde & Schwarz	LISN	ESH2-Z5	892107/021	2014-06-09	2015-06-09
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2014-05-14	2015-05-14
Rohde & Schwarz	CE Test software	EMC 32	8.95	--	--

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

### Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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

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

## Test Results Summary

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

**12.0 dB at 24.163070 MHz in the Line conducted mode**

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(L_m)} \leq L_{lim} + U_{cispr}$$

In BACL.,  $U_{(L_m)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

## Test Data

### Environmental Conditions

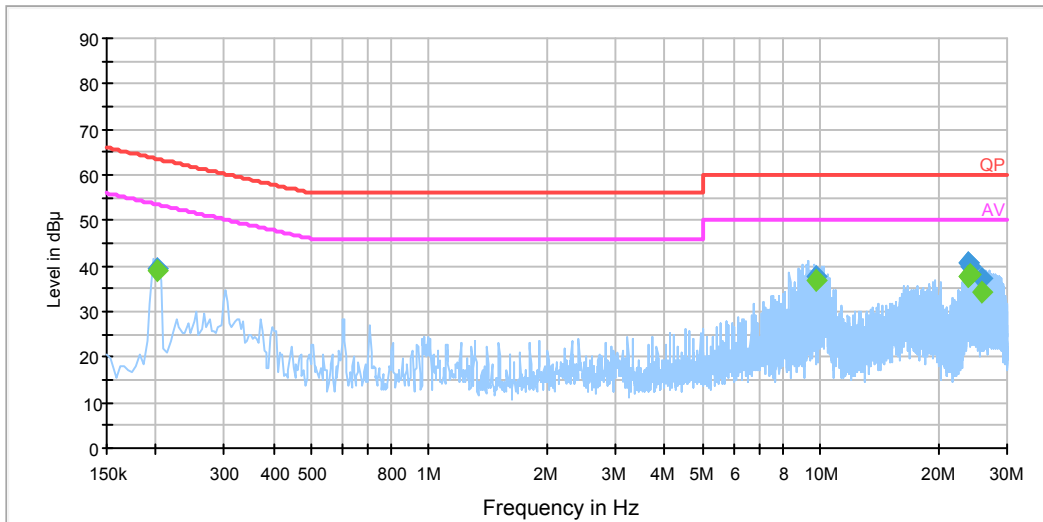
<b>Temperature:</b>	20 °C
<b>Relative Humidity:</b>	52 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Simon Wang on 2015-02-07*

EUT operation mode: Transmitting & Charging

AC 120 V, 60 Hz, Line:

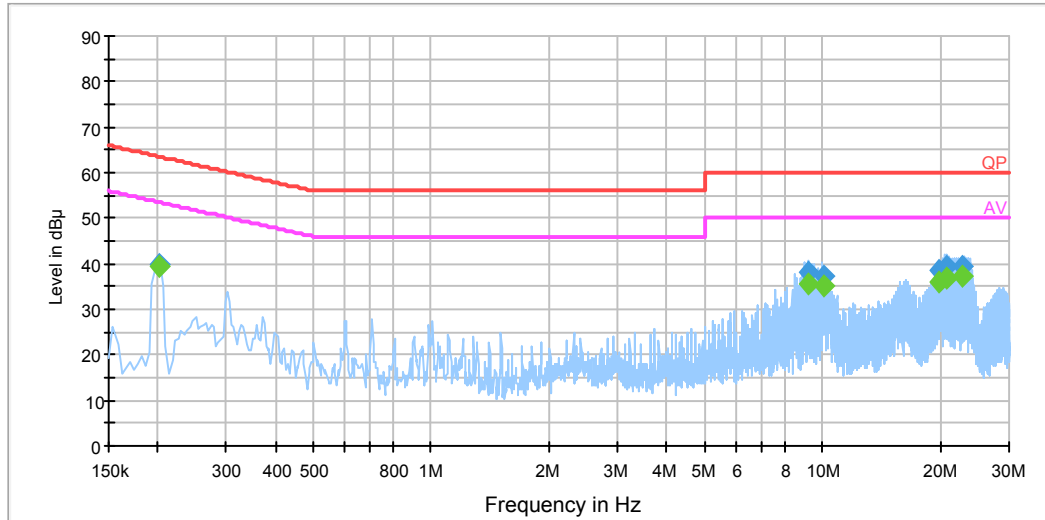
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.202500	39.6	19.3	63.5	23.9	QP
0.202500	38.9	19.3	53.5	14.6	Ave.
9.765070	37.6	19.6	60.0	22.4	QP
9.765070	36.7	19.6	50.0	13.3	Ave.
23.860070	40.6	19.8	60.0	19.4	QP
23.860070	37.9	19.8	50.0	12.1	Ave.
23.871070	40.6	19.8	60.0	19.4	QP
23.871070	37.8	19.8	50.0	12.2	Ave.
24.163070	40.1	19.8	60.0	19.9	QP
24.163070	38.0	19.8	50.0	12.0	Ave.
25.876390	37.4	19.9	60.0	22.6	QP
25.876390	34.5	19.9	50.0	15.5	Ave.

**AC 120V, 60 Hz, Neutral:**

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.201500	40.0	19.3	63.5	23.5	QP
0.201500	39.3	19.3	53.5	14.2	Ave.
9.259130	38.3	19.6	60.0	21.7	QP
9.259130	35.6	19.6	50.0	14.4	Ave.
10.064510	37.2	19.6	60.0	22.8	QP
10.064510	35.1	19.6	50.0	14.9	Ave.
19.835490	38.4	19.6	60.0	21.6	QP
19.835490	36.1	19.6	50.0	13.9	Ave.
20.742870	39.6	19.6	60.0	20.4	QP
20.742870	36.6	19.6	50.0	13.4	Ave.
22.850690	39.4	19.7	60.0	20.6	QP
22.850690	37.3	19.7	50.0	12.7	Ave.

**Note:**

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation  
The corrected factor has been input into the transducer of the test software.
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

**FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS**

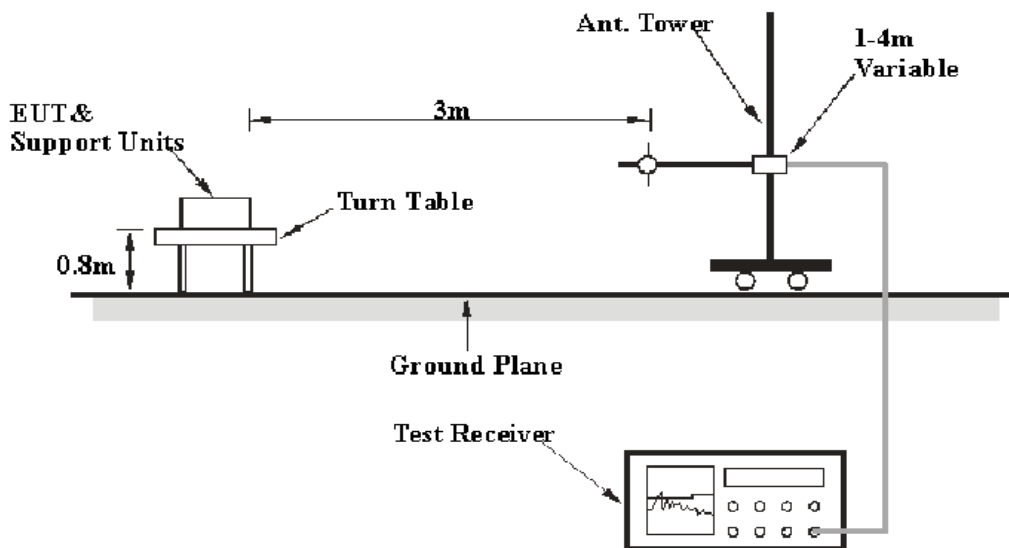
**Applicable Standard**

FCC §15.205; §15.209; §15.247(d)

**Measurement Uncertainty**

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

**EUT Setup**



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209 and FCC 15.247 limits.

**EMI Test Receiver & Spectrum Analyzer Setup**

The system was investigated from 30 MHz to 25 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	10 Hz	/	Ave.



## Test Procedure

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

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

## 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2014-05-06	2015-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2014-11-03	2015-11-03
Sunol Sciences	Broadband Antenna	JB3	A111513	2014-06-18	2017-06-17
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2014-04-03	2015-04-03
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2014-08-03	2015-08-03
Sunol Sciences	Horn Antenna	DRH-118	A052304	2014-12-01	2015-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-11-12	2015-11-12
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
R&S	Auto test Software	EMC32	V9.10	NCR	NCR

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

## Test Results Summary

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

**4.92 dB at 9764.00 MHz in the Vertical polarization**

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(L_m)} \leq L_{lim} + U_{cispr}$$

In BAACL.,  $U_{(L_m)}$  is less than  $+ U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

## Test Data

### Environmental Conditions

<b>Temperature:</b>	20 °C
<b>Relative Humidity:</b>	52 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Simon Wang on 2015-02-07.*

*EUT operation mode: Transmitting*

**30 MHz -25 GHz:** (Scan with GFSK,  $\pi/4$ -DQPSK, 8-DPSK, the worst case is BDR Mode (GFSK))

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB $\mu$ V/m)	FCC Part 15.247/205/209	
	Reading (dB $\mu$ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB $\mu$ V/m)	Margin (dB)
Low Channel (2402 MHz)									
325.7	42.66	QP	203	1.2	V	-11.8	30.86	46	15.14
2402.00	89.85	PK	210	1.0	H	4.27	94.12	/	/
2402.00	77.78	Ave.	210	1.0	H	4.27	82.05	/	/
2402.00	81.41	PK	251	1.1	V	4.17	85.58	/	/
2402.00	69.35	Ave.	251	1.1	V	4.17	73.52	/	/
2388.36	37.63	PK	51	1.1	H	4.27	41.9	74	32.1
2388.36	25.28	Ave.	51	1.1	H	4.27	29.55	54	24.45
2497.10	39.73	PK	40	1.1	H	7.99	47.72	74	26.28
2497.10	28.71	Ave.	40	1.1	H	7.99	36.7	54	17.30
2801.50	37.70	PK	132	1.0	H	8.41	46.11	74	27.89
2801.50	25.39	Ave.	132	1.0	H	8.41	33.8	54	20.20
4804.00	38.58	PK	315	1.1	H	24.81	63.39	74	10.61
4804.00	23.23	Ave.	315	1.1	H	24.81	48.04	54	5.96
7206.00	37.11	PK	121	1.1	V	22.28	59.39	74	14.61
7206.00	21.99	Ave.	121	1.1	V	22.28	44.27	54	9.73
9608.00	36.93	PK	260	1.1	H	25.02	61.95	74	12.05
9608.00	22.56	Ave.	260	1.1	H	25.02	47.58	54	6.42
Middle Channel (2441 MHz)									
325.7	42.53	QP	243	1.3	V	-11.8	30.73	46	15.27
2441.00	88.9	PK	356	1.2	H	4.27	93.17	/	/
2441.00	76.34	Ave.	356	1.2	H	4.27	80.61	/	/
2441.00	82.95	PK	199	1.3	V	4.17	87.12	/	/
2441.00	70.22	Ave.	199	1.3	V	4.17	74.39	/	/
2382.45	38.07	PK	313	1.1	H	4.27	42.34	74	31.66
2382.45	26.35	Ave.	313	1.1	H	4.27	30.62	54	23.38
2484.0	39.88	PK	314	1.3	H	7.99	47.87	74	26.13
2484.0	28.06	Ave.	314	1.3	H	7.99	36.05	54	17.95
2786.83	37.31	PK	236	1.3	H	8.41	45.72	74	28.28
2786.83	24.85	Ave.	236	1.3	H	8.41	33.26	54	20.74
4882.00	37.02	PK	112	1.1	V	22.91	59.93	74	14.07
4882.00	24.02	Ave.	112	1.1	V	22.91	46.93	54	7.07
7323.00	37.01	PK	47	1.0	V	22.6	59.61	74	14.39
7323.00	22.17	Ave.	47	1.0	V	22.6	44.77	54	9.23
9764.00	35.99	PK	6	1.3	V	26.29	62.28	74	11.72
9764.00	22.79	Ave.	6	1.3	V	26.29	49.08	54	4.92

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.247/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
High Channel (2480 MHz)									
325.7	42.45	QP	49	1.1	V	-11.8	30.65	46	15.35
2480.00	89.55	PK	317	1.1	H	7.99	97.54	/	/
2480.00	77.3	Ave.	317	1.1	H	7.99	85.29	/	/
2480.00	81.91	PK	316	1.2	V	7.59	89.5	/	/
2480.00	70.02	Ave.	316	1.2	V	7.59	77.61	/	/
2354.36	38.28	PK	205	1.0	H	4.27	42.55	74	31.45
2354.36	26.1	Ave.	205	1.0	H	4.27	30.37	54	23.63
2483.70	43.09	PK	296	1.1	H	7.99	51.08	74	22.92
2483.70	28.54	Ave.	296	1.1	H	7.99	36.53	54	17.47
2835.50	38.35	PK	42	1.2	H	8.41	46.76	74	27.24
2835.50	24.91	Ave.	42	1.2	H	8.41	33.32	54	20.68
4960.00	37.55	PK	221	1.1	V	22.01	59.56	74	14.44
4960.00	24.39	Ave.	221	1.1	V	22.01	46.4	54	7.60
7440.00	37.82	PK	265	1.1	V	21.54	59.36	74	14.64
7440.00	22.80	Ave.	265	1.1	V	21.54	44.34	54	9.66
9920.00	36.94	PK	141	1.1	H	26.09	63.03	74	10.97
9920.00	22.90	Ave.	141	1.1	H	26.09	48.99	54	5.01

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

## 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 20 dB bandwidth of the hopping channel, whichever is greater. 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. Set the EUT in transmitting mode, maxhold the channel.
2. Set the adjacent channel of the EUT and maxhold another trace.
3. Measure the channel separation.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

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

### Test Data

#### Environmental Conditions

Temperature:	20 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

*The testing was performed by Simon Wang on 2015-02-07.*

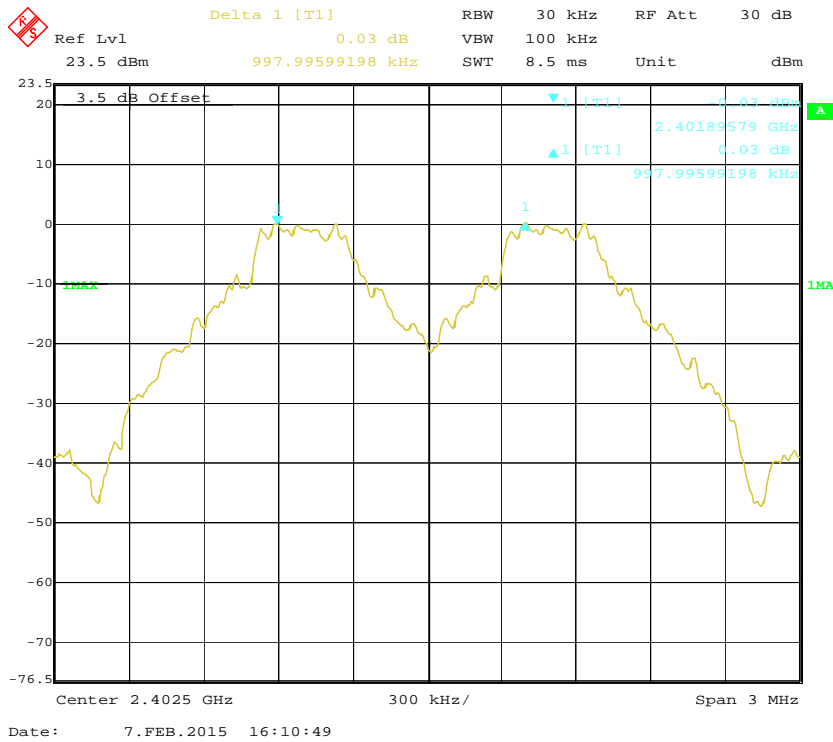
EUT operation mode: Transmitting

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

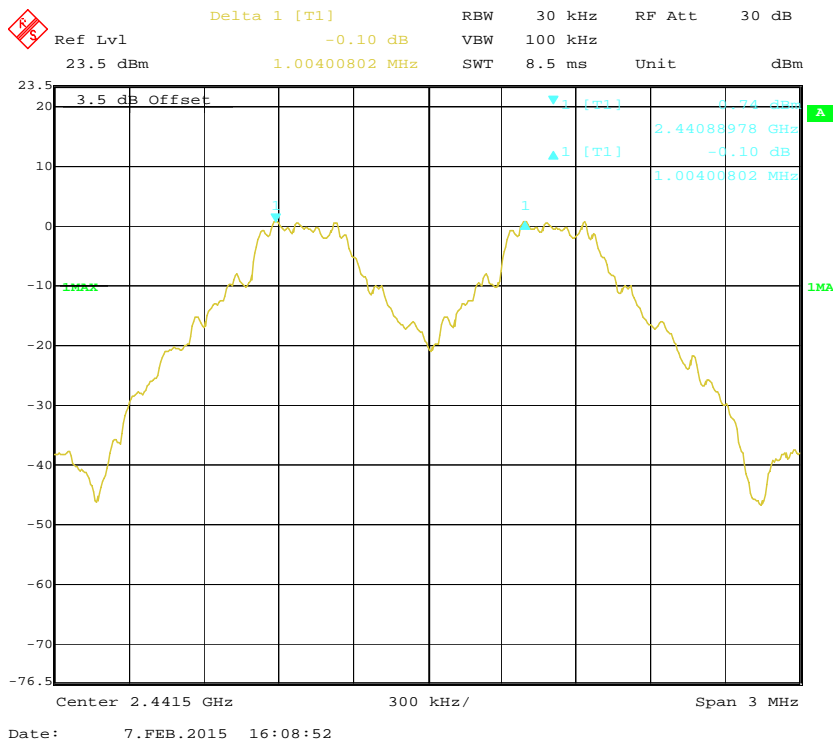
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	≥Limit (MHz)	Result
<b>BDR (GFSK)</b>	Low	2402	0.998	0.621	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.609	Pass
	Adjacent	2442			
	High	2480	1.004	0.605	Pass
	Adjacent	2479			
<b>EDR (π/4-DQPSK)</b>	Low	2402	1.004	0.817	Pass
	Adjacent	2403			
	Middle	2441	0.998	0.817	Pass
	Adjacent	2442			
	High	2480	0.998	0.817	Pass
	Adjacent	2479			
<b>EDR (8DPSK)</b>	Low	2402	1.004	0.817	Pass
	Adjacent	2403			
	Middle	2441	0.992	0.817	Pass
	Adjacent	2442			
	High	2480	1.004	0.817	Pass
	Adjacent	2479			

Note: Limit = 20 dB bandwidth \*2/3

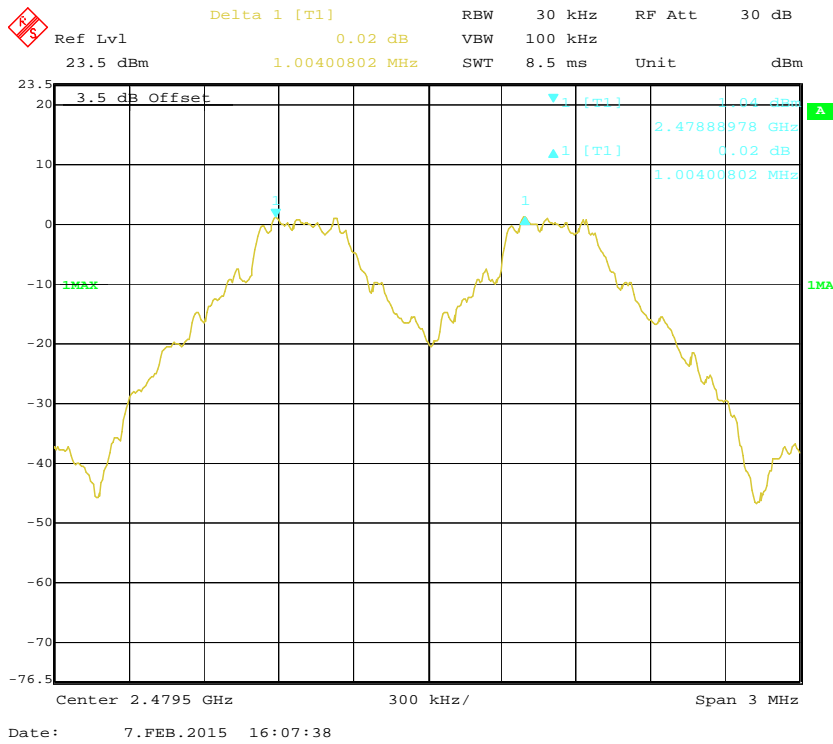
**BDR (GFSK): Low Channel**



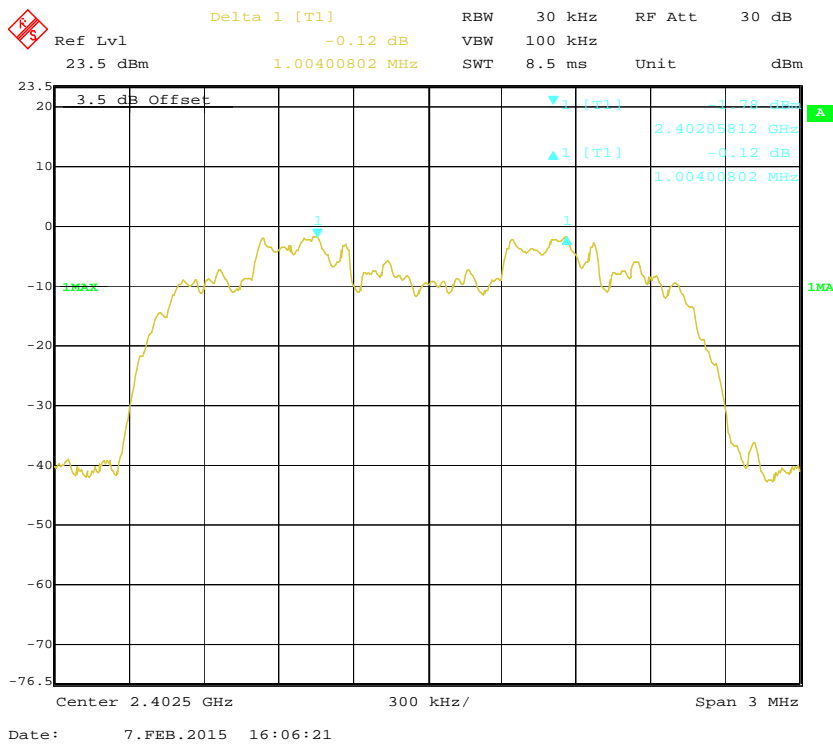
**BDR (GFSK): Middle Channel**



**BDR (GFSK): High Channel**

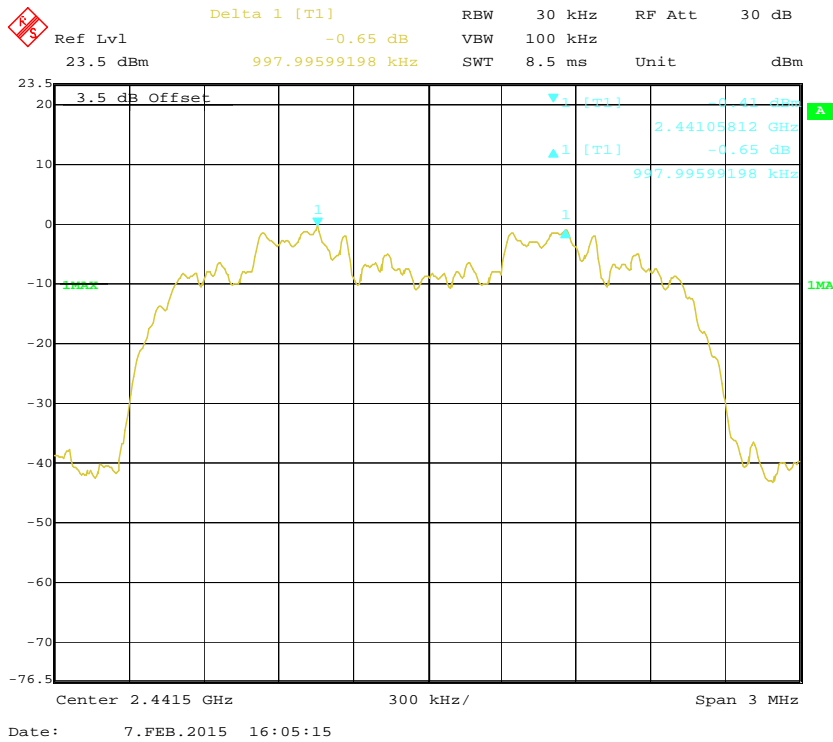


**EDR ( $\pi/4$ -DQPSK): Low Channel**

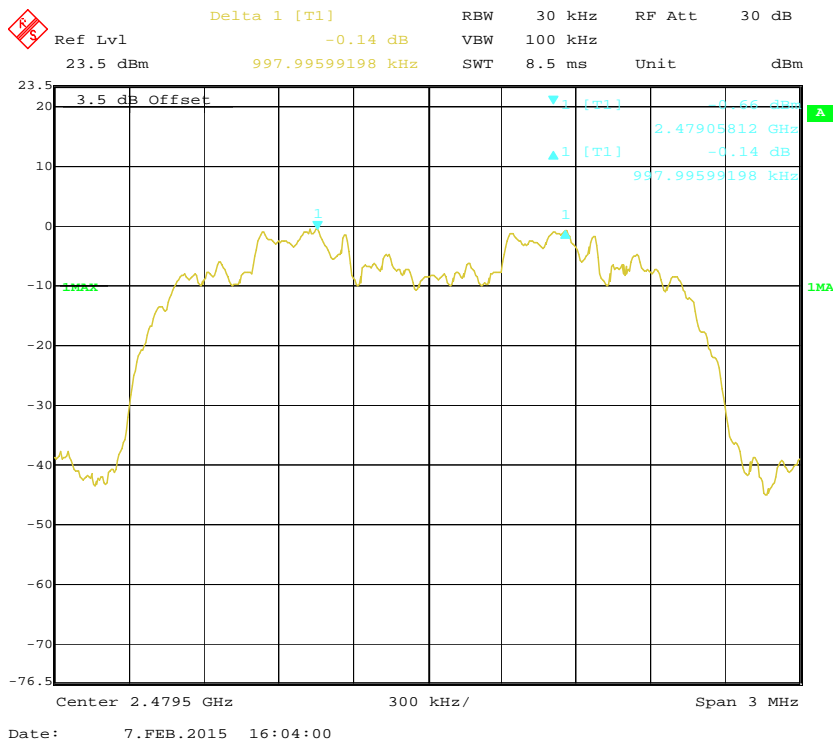




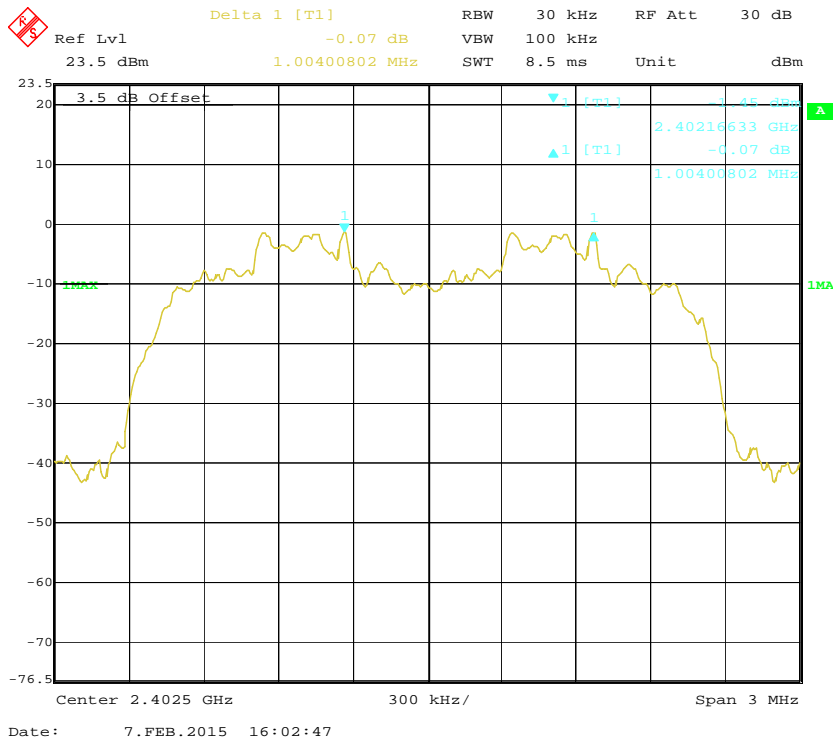
**EDR ( $\pi/4$ -DQPSK): Middle Channel**



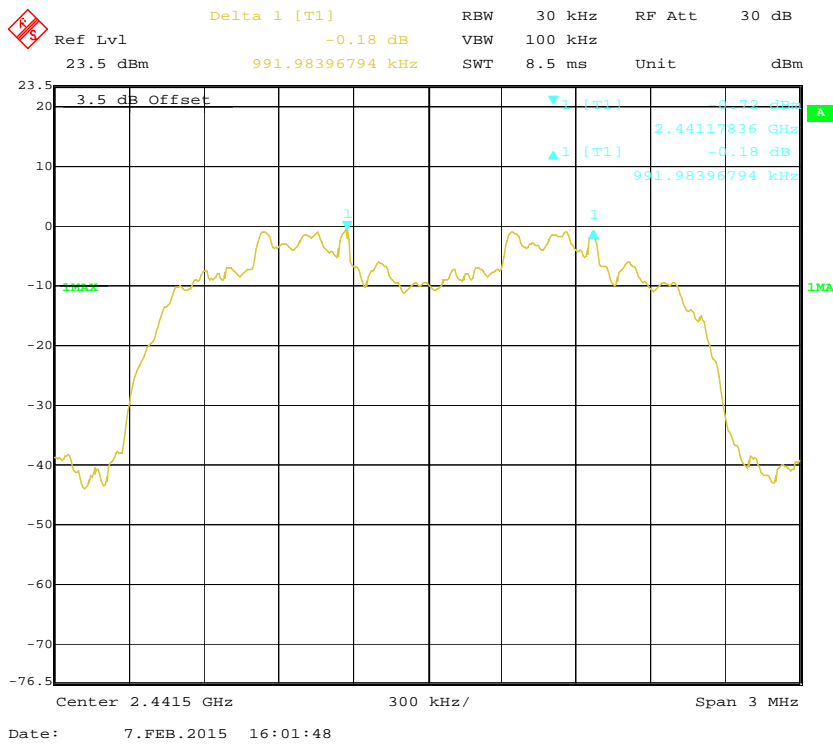
**EDR ( $\pi/4$ -DQPSK): High Channel**



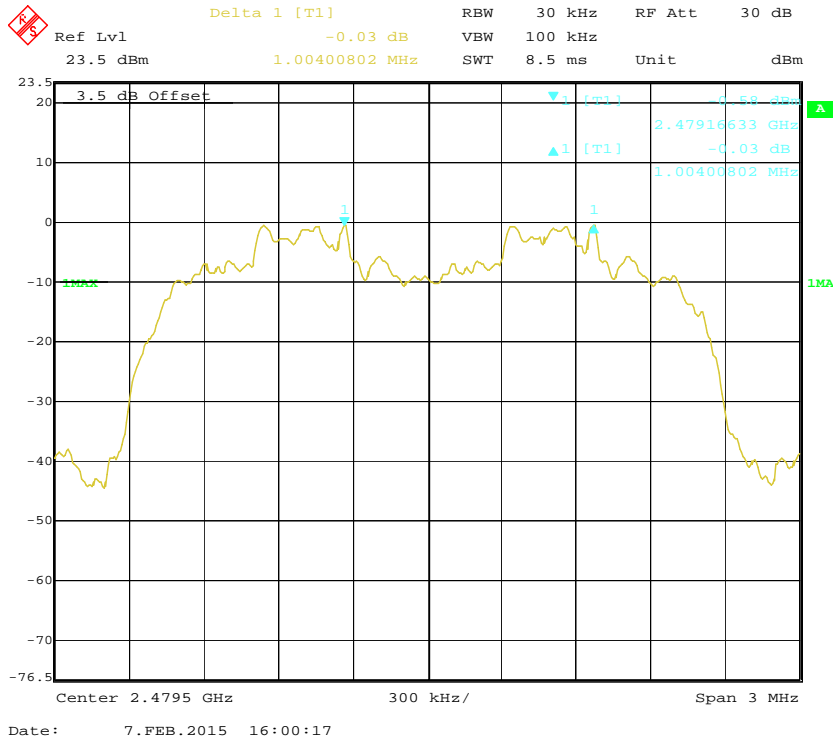
**EDR (8DPSK): Low Channel**



**EDR (8DPSK): Middle Channel**



### EDR (8DPSK): High Channel



## FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

### 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 without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. 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
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

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

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	20 °C
<b>Relative Humidity:</b>	52 %
<b>ATM Pressure:</b>	101.0 kPa

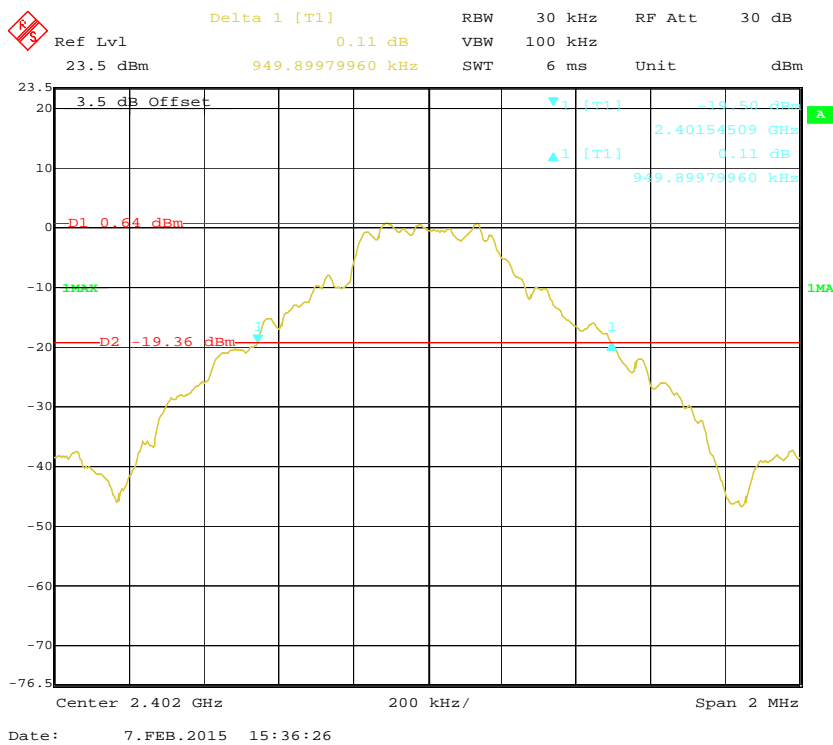
*The testing was performed by Simon Wang on 2015-02-07*

*EUT operation mode: Transmitting*

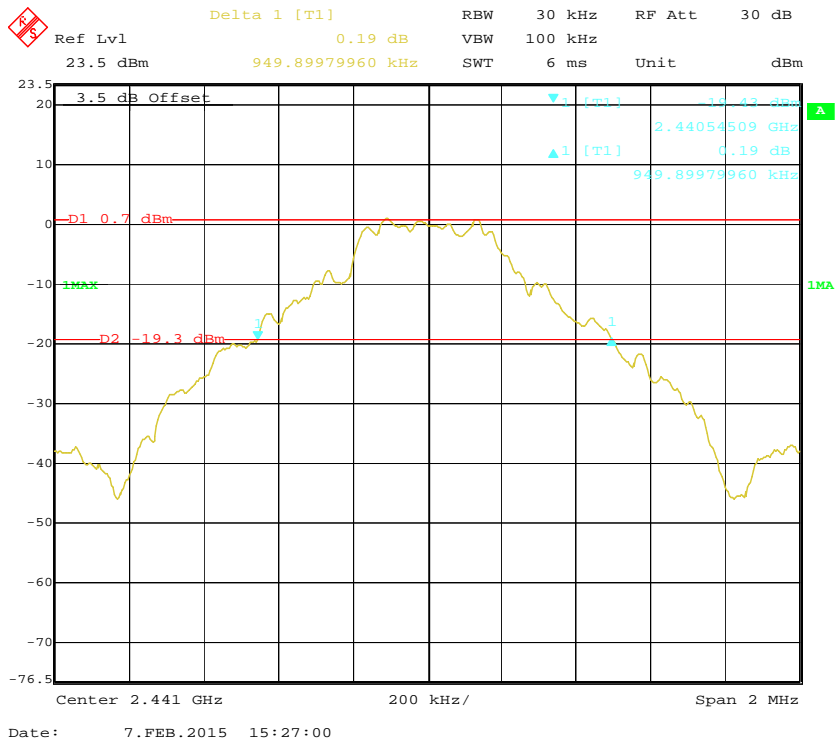
*Test Result: Compliance. Please refer to following tables and plots*

Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
<b>BDR (GFSK)</b>	Low	2402	0.950
	Middle	2441	0.950
	High	2480	0.950
<b>EDR (<math>\pi/4</math>-DQPSK)</b>	Low	2402	1.291
	Middle	2441	1.287
	High	2480	1.283
<b>EDR (8DPSK)</b>	Low	2402	1.279
	Middle	2441	1.275
	High	2480	1.271

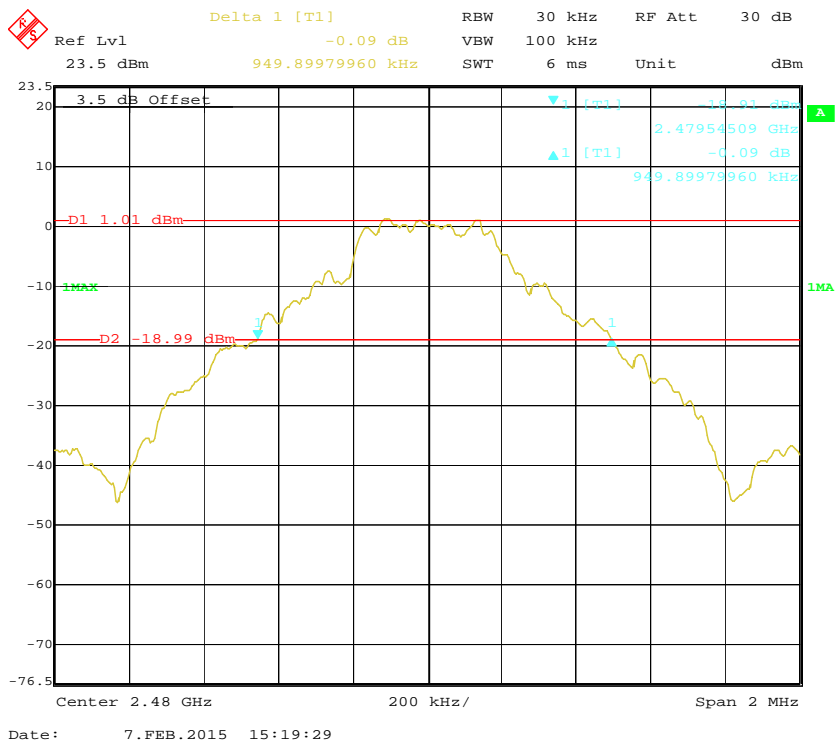
**BDR (GFSK): Low Channel**



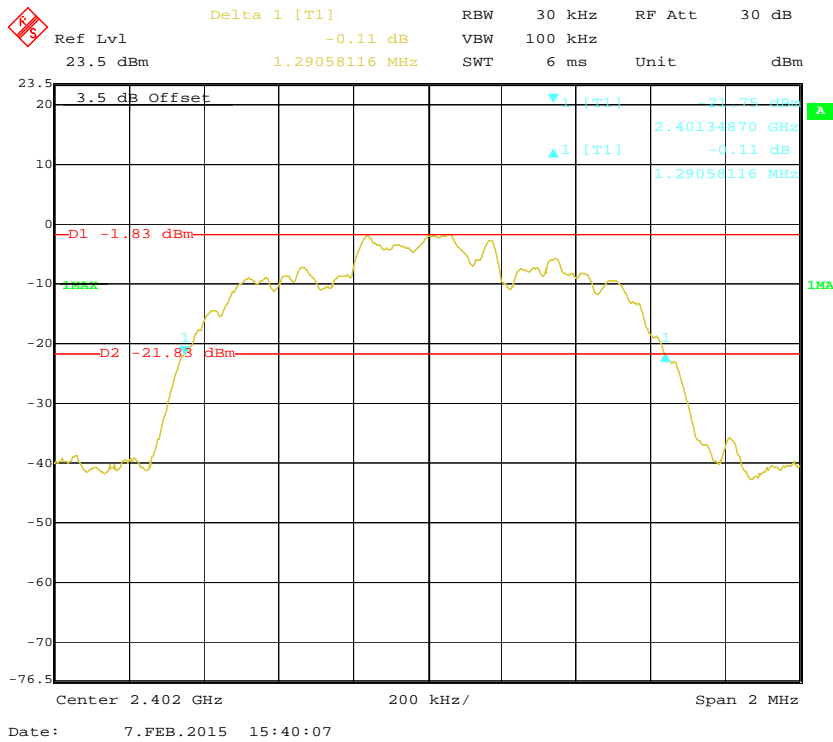
**BDR (GFSK): Middle Channel**



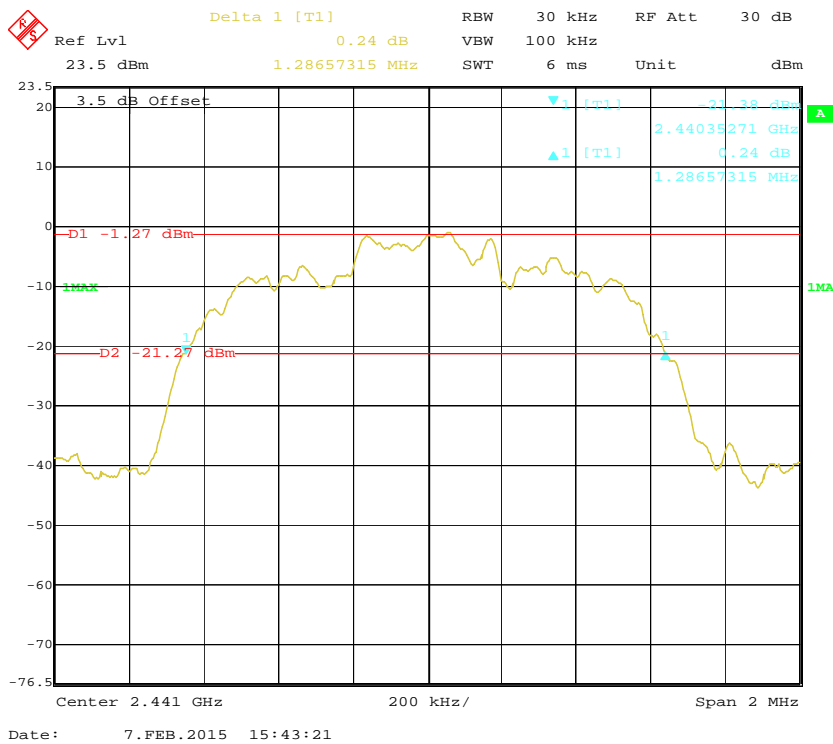
**BDR (GFSK): High Channel**



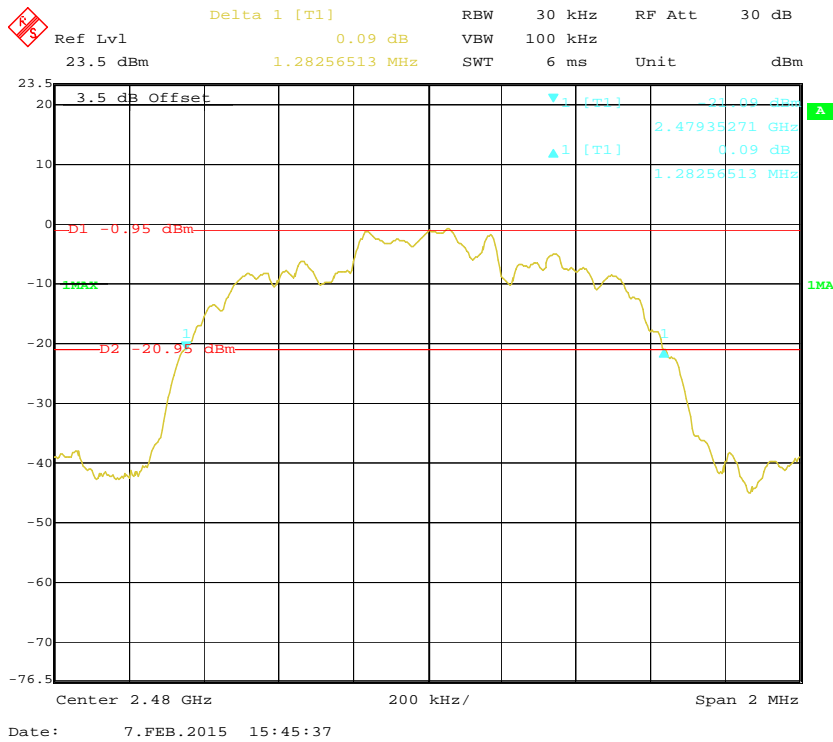
**EDR ( $\pi/4$ -DQPSK): Low Channel**



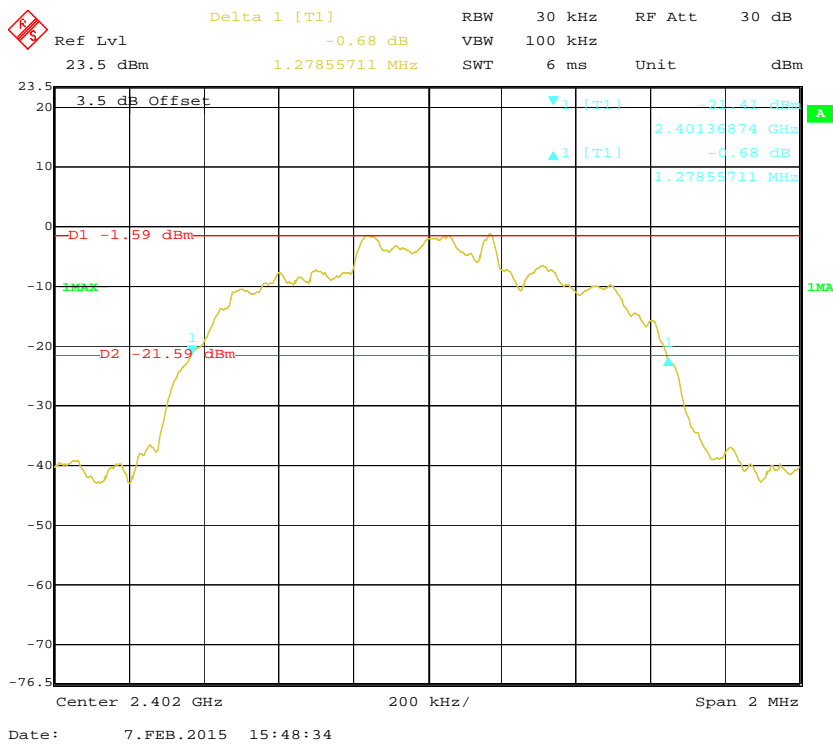
**EDR ( $\pi/4$ -DQPSK): Middle Channel**



### EDR ( $\pi/4$ -DQPSK): High Channel

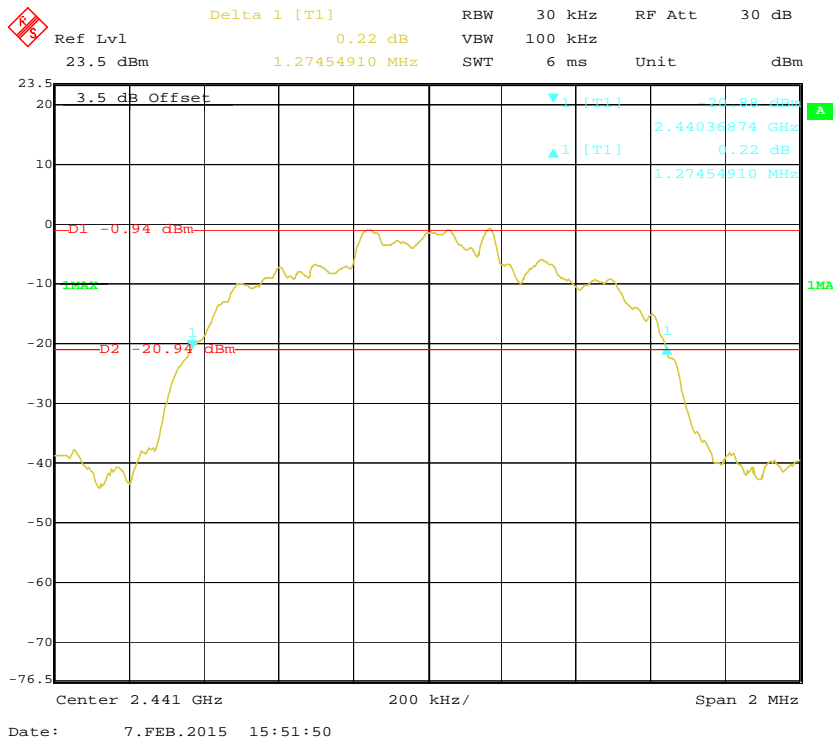


### EDR (8DPSK): Low Channel

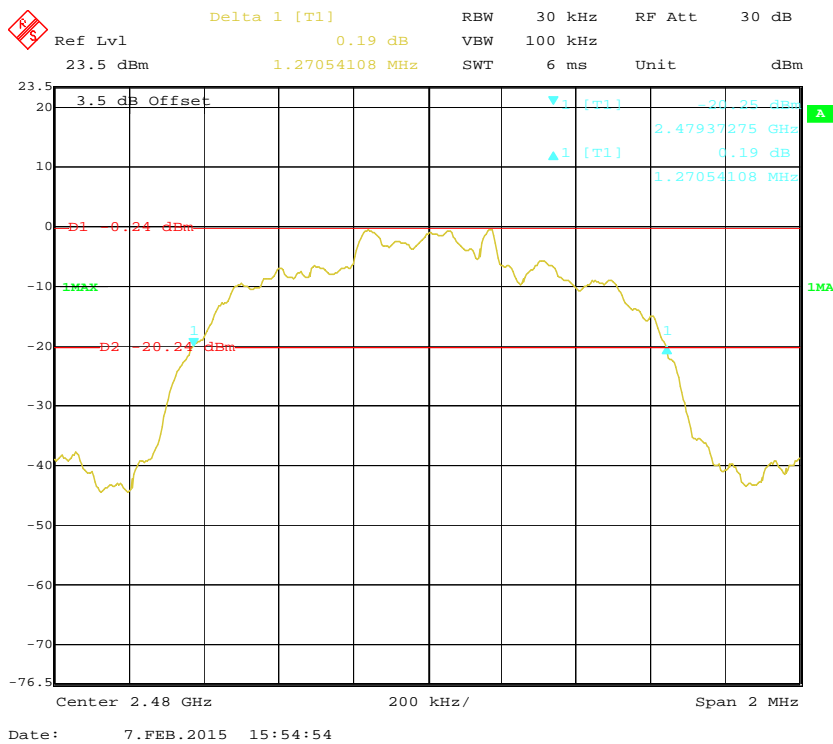




### EDR (8DPSK): Middle Channel



### EDR (8DPSK): High Channel



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

### **Applicable Standard**

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### **Test Procedure**

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

### **Test Equipment List and Details**

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

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

### **Test Data**

#### **Environmental Conditions**

<b>Temperature:</b>	20 °C
<b>Relative Humidity:</b>	52 %
<b>ATM Pressure:</b>	101.0 kPa

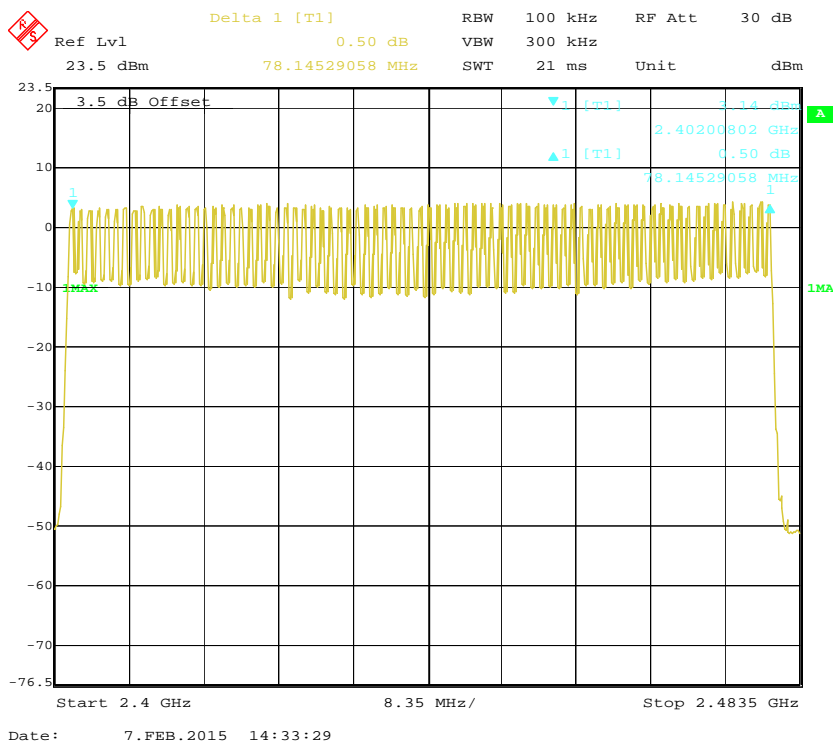
*The testing was performed by Simon Wang on 2015-02-07.*

*EUT operation mode: Transmitting*

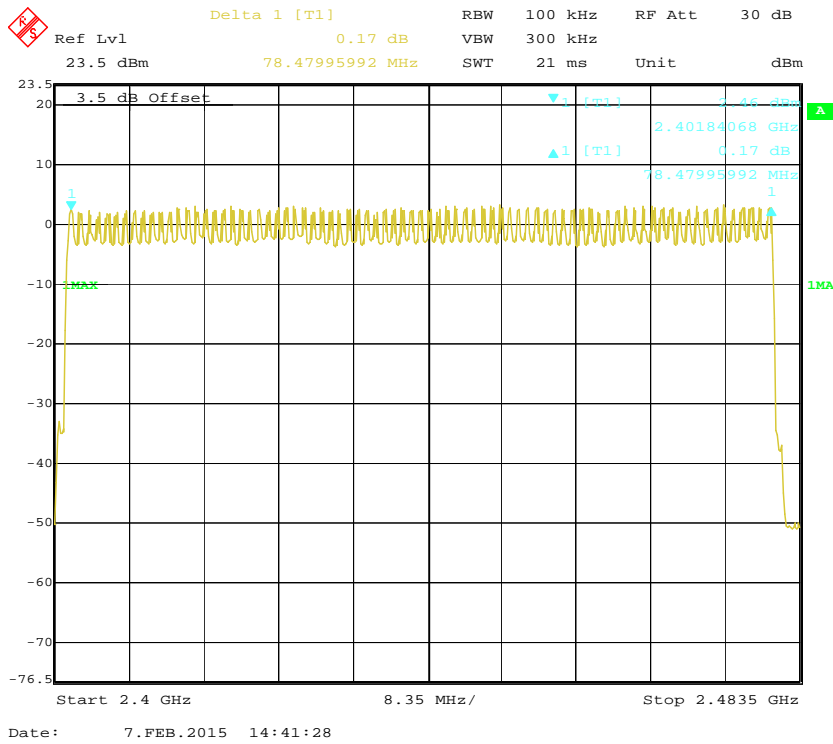
*Test Result: Compliance. Please refer to following tables and plots*

Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.50	79	≥15
EDR (π/4-DQPSK)	2400-2483.50	79	≥15
EDR (8DPSK)	2400-2483.50	79	≥15

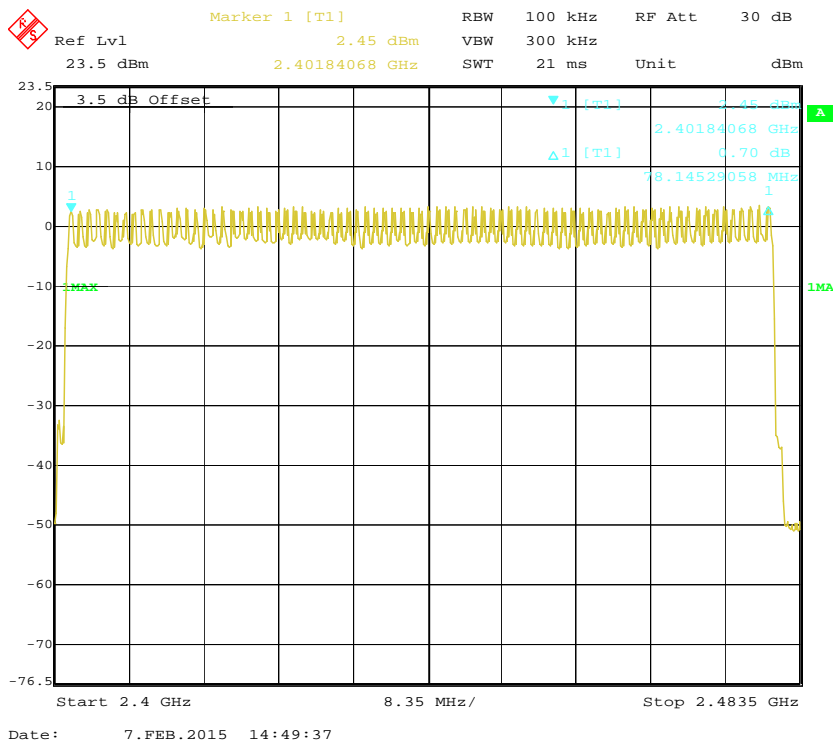
**BDR (GFSK): Number of Hopping Channels**



### EDR ( $\pi/4$ -DQPSK): Number of Hopping Channels



### EDR (8DPSK): Number of Hopping Channels



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

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

**Test Procedure**

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

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

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

**Test Data****Environmental Conditions**

<b>Temperature:</b>	20 °C
<b>Relative Humidity:</b>	52 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Simon Wang on 2015-02-07*

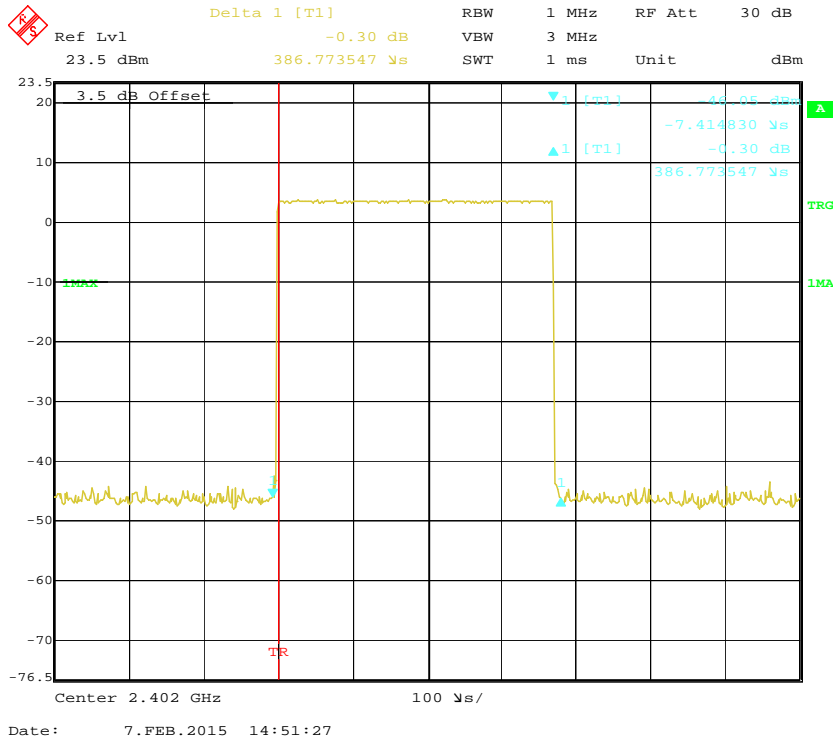
EUT operation mode: Transmitting

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

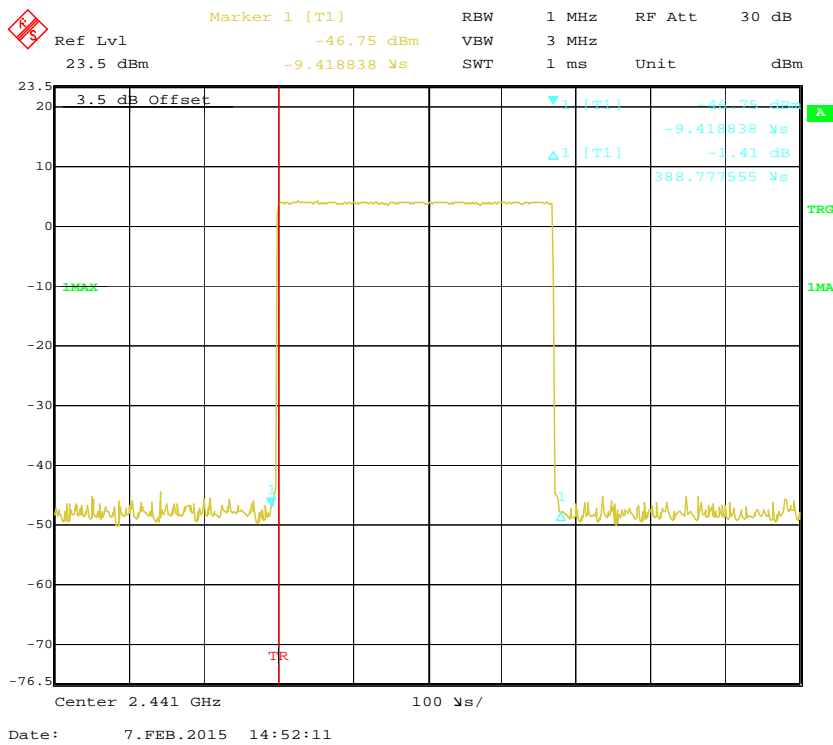
Mode	Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result	
BDR (GFSK)	DH 1	Low	0.387	0.124	0.4	Pass
		Middle	0.389	0.124	0.4	Pass
		High	0.389	0.124	0.4	Pass
	Note: DH1: Dwell time = Pulse time*(1600/2/79)*31.6S					
	DH 3	Low	1.649	0.264	0.4	Pass
		Middle	1.655	0.265	0.4	Pass
		High	1.661	0.266	0.4	Pass
	Note: DH3: Dwell time = Pulse time*(1600/4/79)*31.6S					
	DH 5	Low	2.908	0.310	0.4	Pass
		Middle	2.908	0.310	0.4	Pass
		High	2.908	0.310	0.4	Pass
	Note: DH5: Dwell time = Pulse time*(1600/6/79)*31.6S					
	EDR ( $\pi/4$ -DQPSK)	2DH 1	Low	0.393	0.126	0.4
Middle			0.393	0.126	0.4	Pass
High			0.395	0.126	0.4	Pass
Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S						
2DH 3		Low	1.655	0.265	0.4	Pass
		Middle	1.655	0.265	0.4	Pass
		High	1.655	0.265	0.4	Pass
Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S						
2DH 5		Low	2.898	0.309	0.4	Pass
		Middle	2.908	0.310	0.4	Pass
		High	2.908	0.310	0.4	Pass
Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S						
EDR (8DPSK)		3DH 1	Low	0.391	0.125	0.4
	Middle		0.393	0.126	0.4	Pass
	High		0.393	0.126	0.4	Pass
	Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S					
	3DH 3	Low	1.655	0.265	0.4	Pass
		Middle	1.655	0.265	0.4	Pass
		High	1.655	0.265	0.4	Pass
	Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S					
	3DH 5	Low	2.908	0.310	0.4	Pass
		Middle	2.918	0.311	0.4	Pass
		High	2.918	0.311	0.4	Pass
	Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6S					

**BDR (GFSK):**

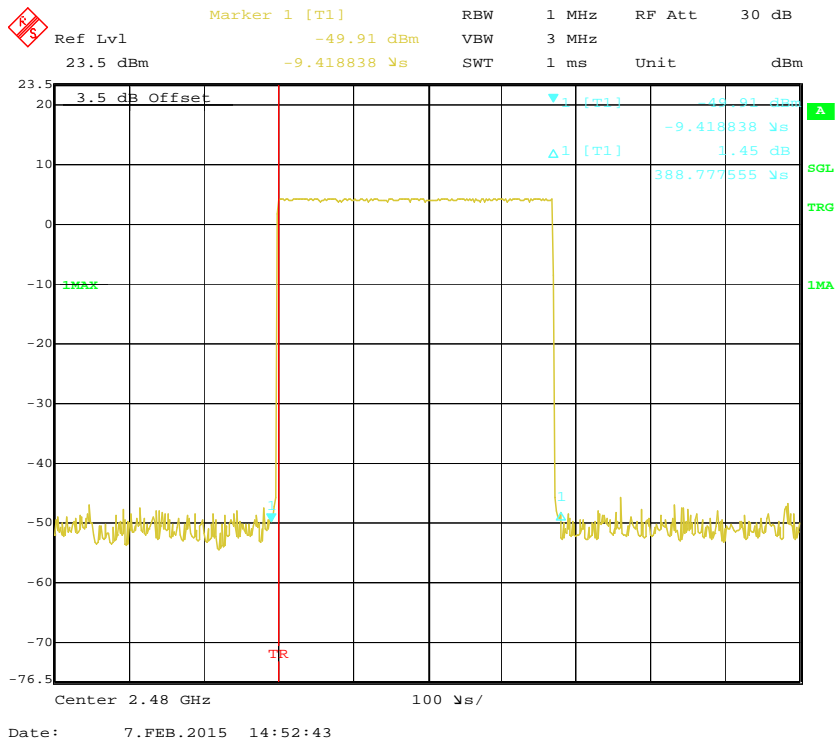
**Pulse time, Low Channel, DH1**



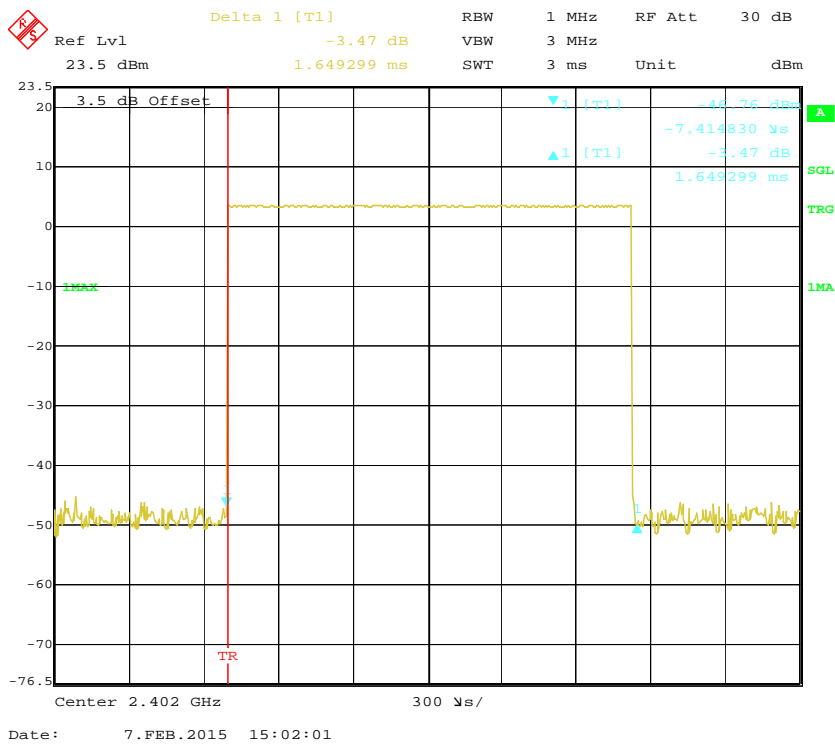
**Pulse time, Middle Channel, DH1**



### Pulse time, High Channel, DH1

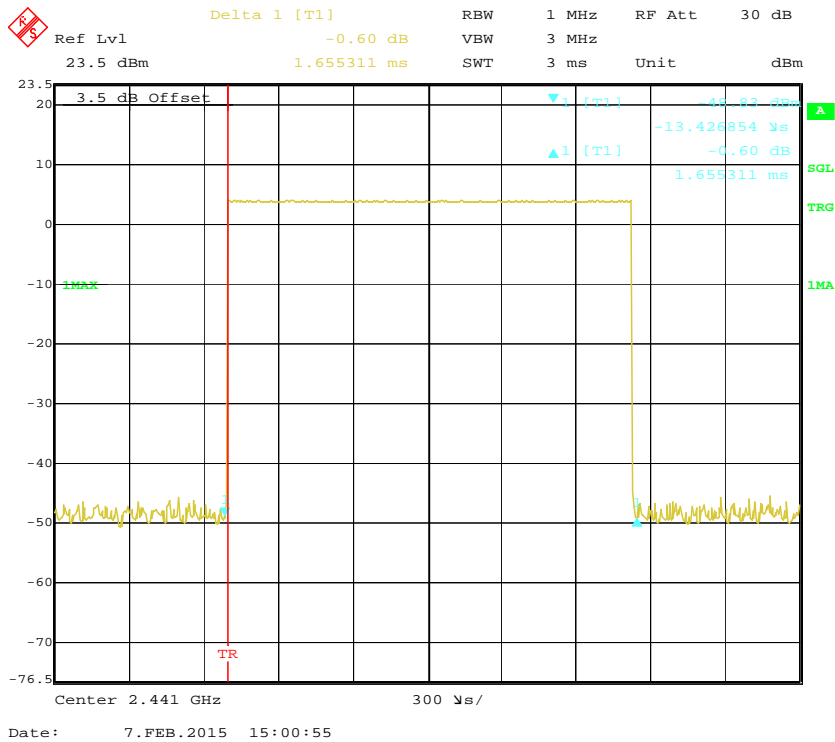


### Pulse time, Low Channel, DH3

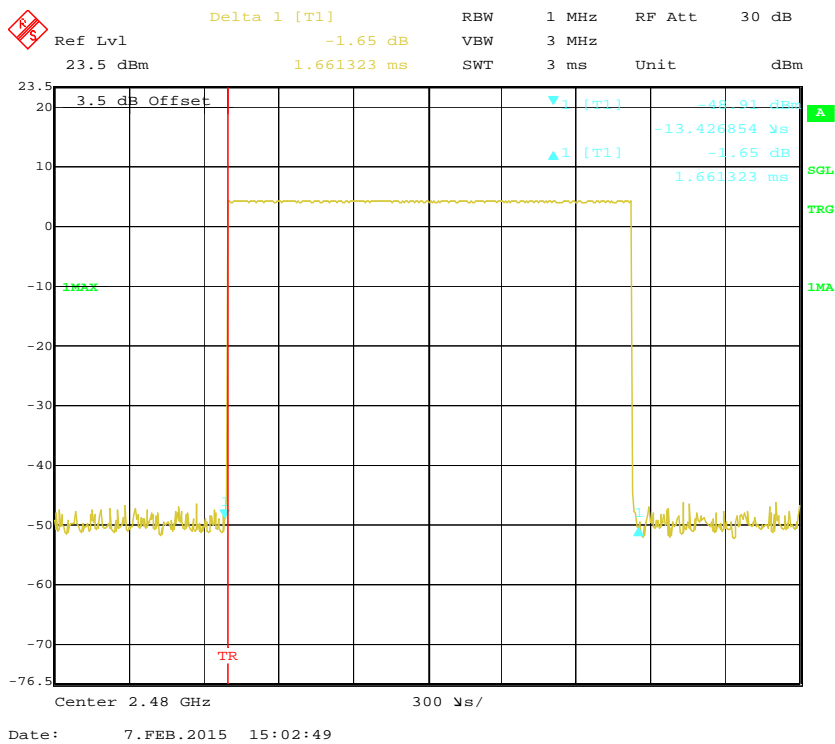




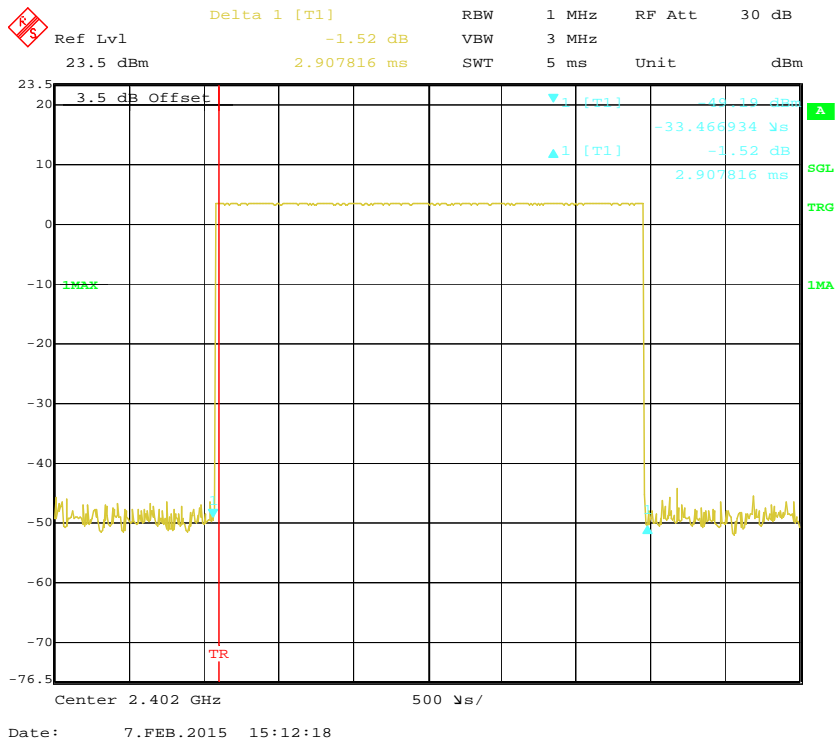
### Pulse time, Middle Channel, DH3



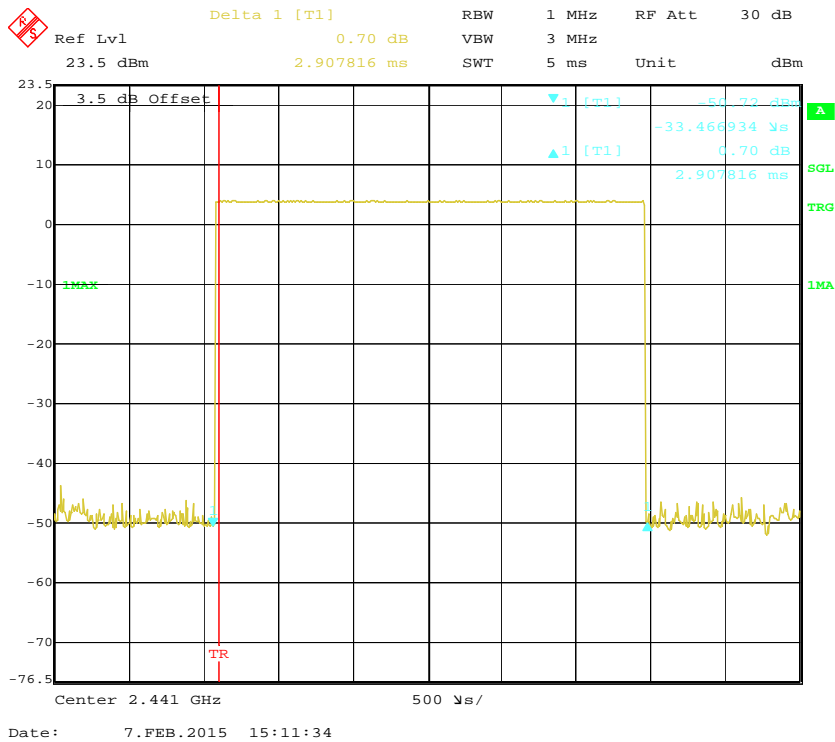
### Pulse time, High Channel, DH3



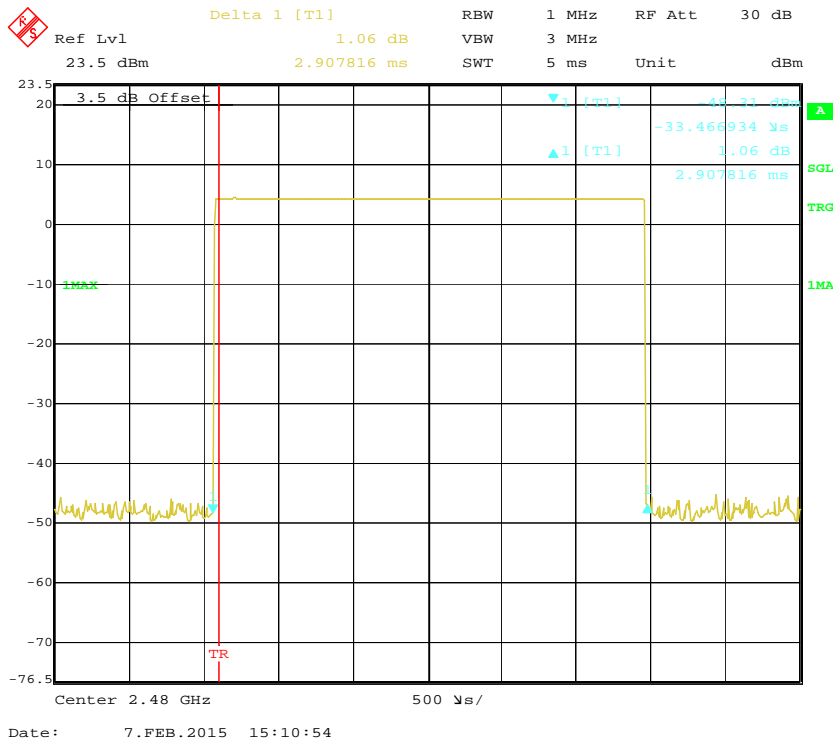
**Pulse time, Low Channel, DH5**



**Pulse time, Middle Channel, DH5**

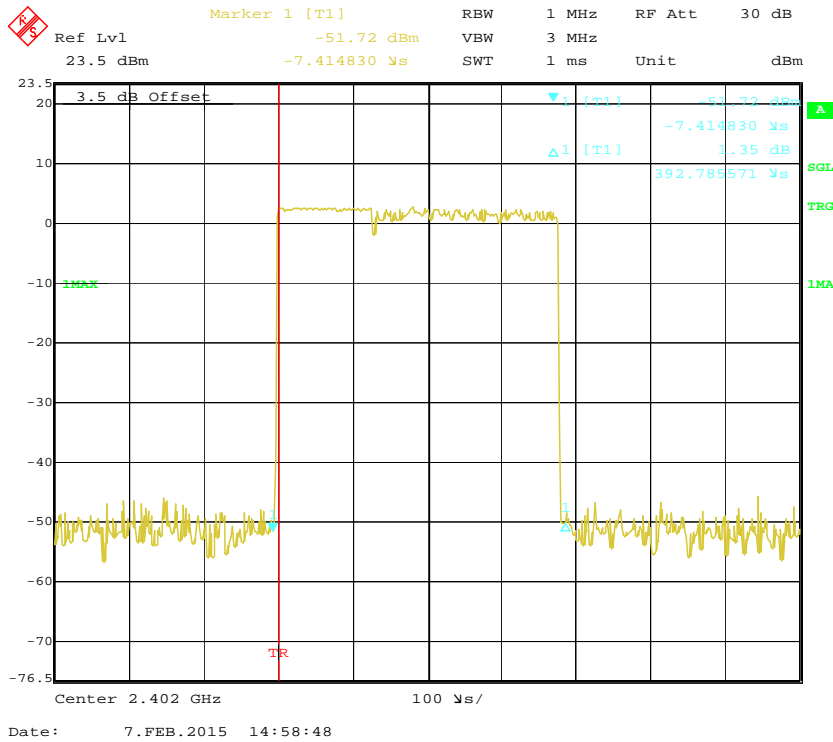


**Pulse time, High Channel, DH5**

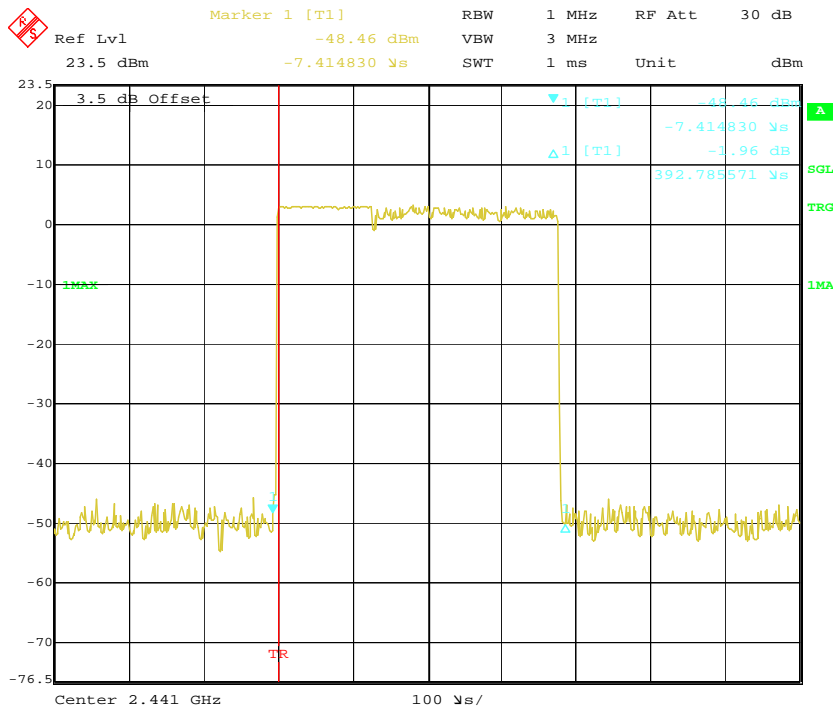


**EDR ( $\pi/4$ -DQPSK):**

**Pulse time, Low Channel, 2DH1**

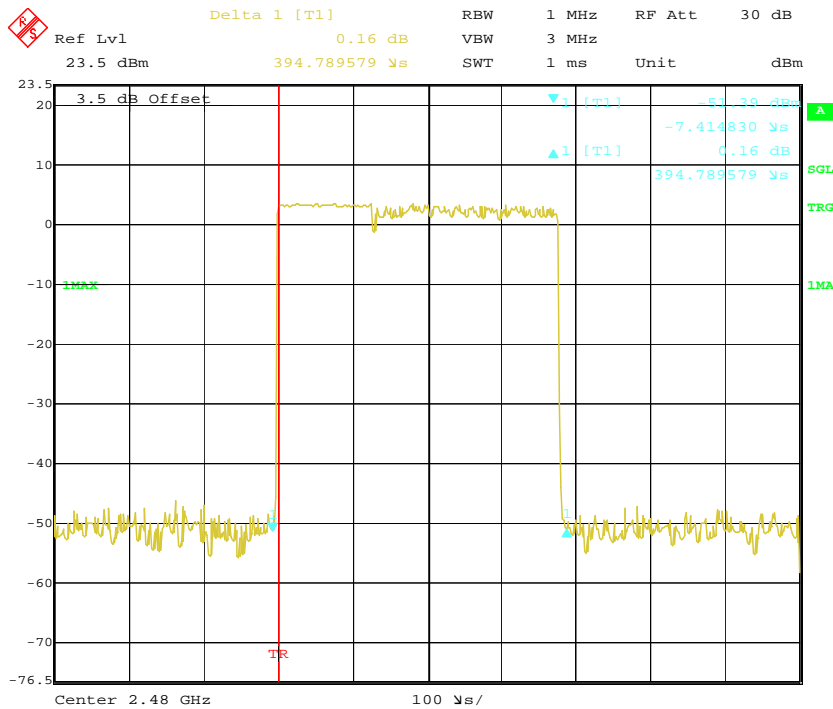


### Pulse time, Middle Channel, 2DH1



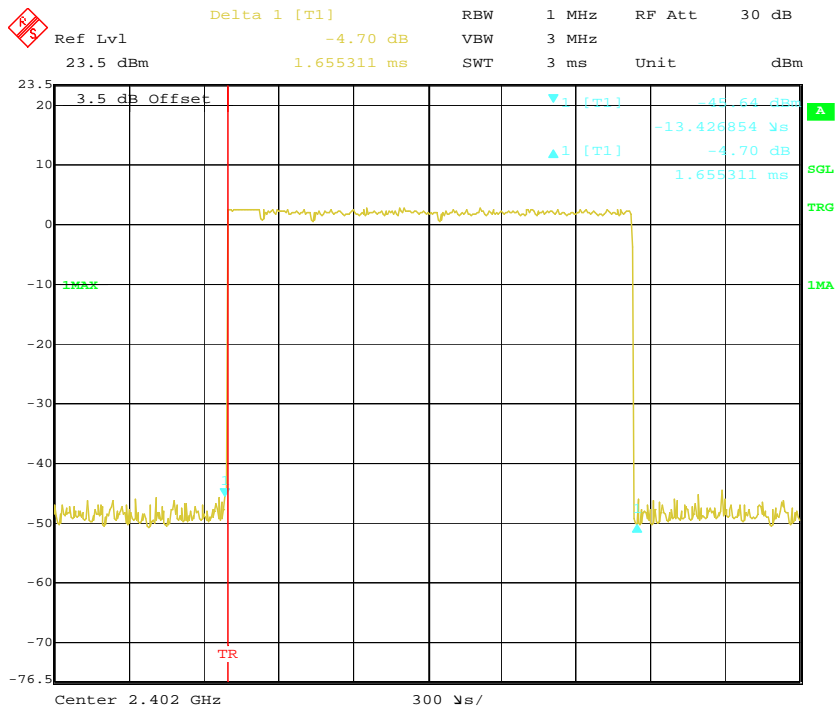
Date: 7.FEB.2015 14:59:40

### Pulse time, High Channel, 2DH1



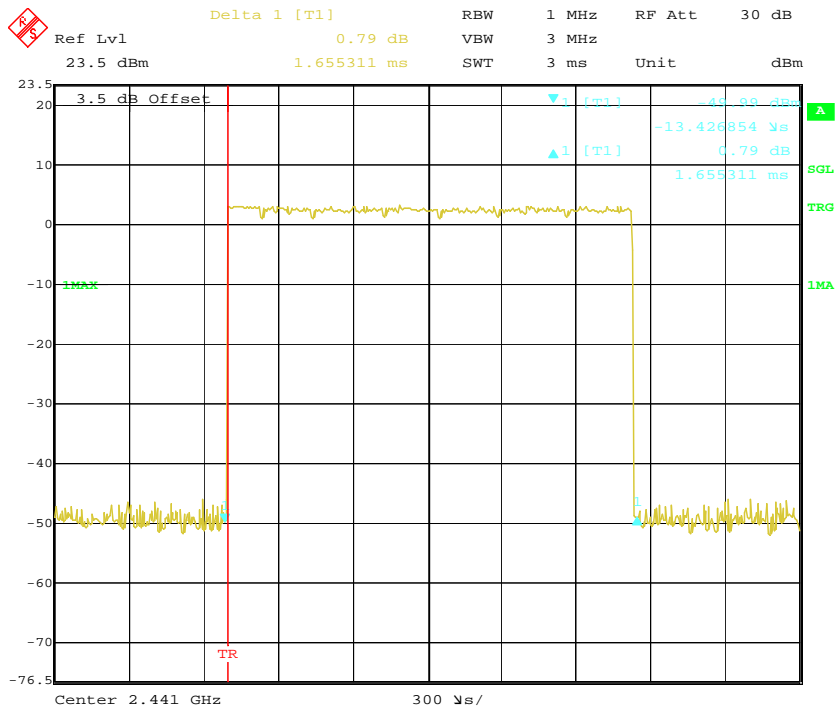
Date: 7.FEB.2015 14:53:39

**Pulse time, Low Channel, 2DH3**



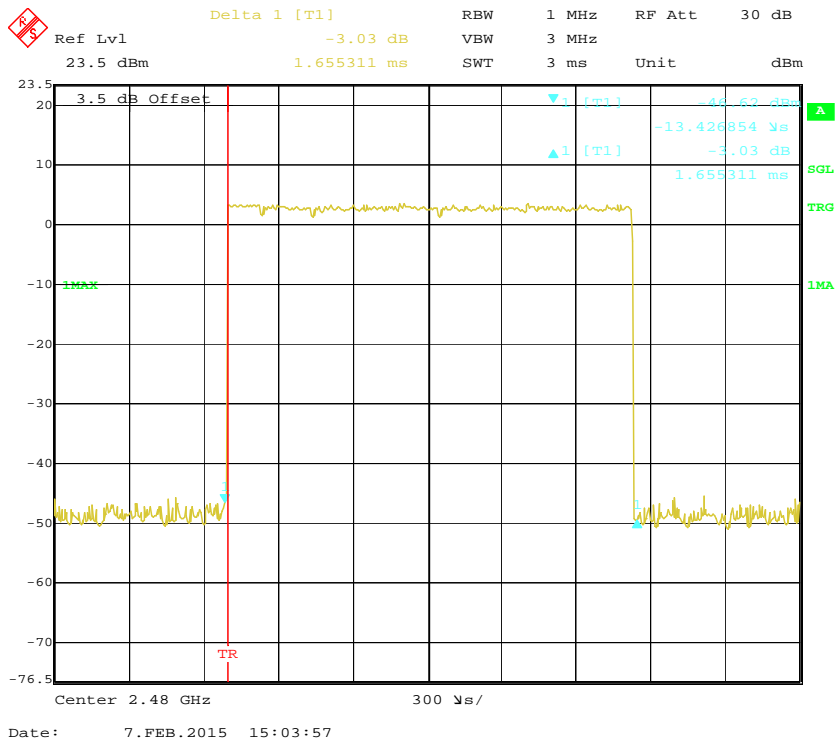
Date: 7.FEB.2015 15:05:04

**Pulse time, Middle Channel, 2DH3**

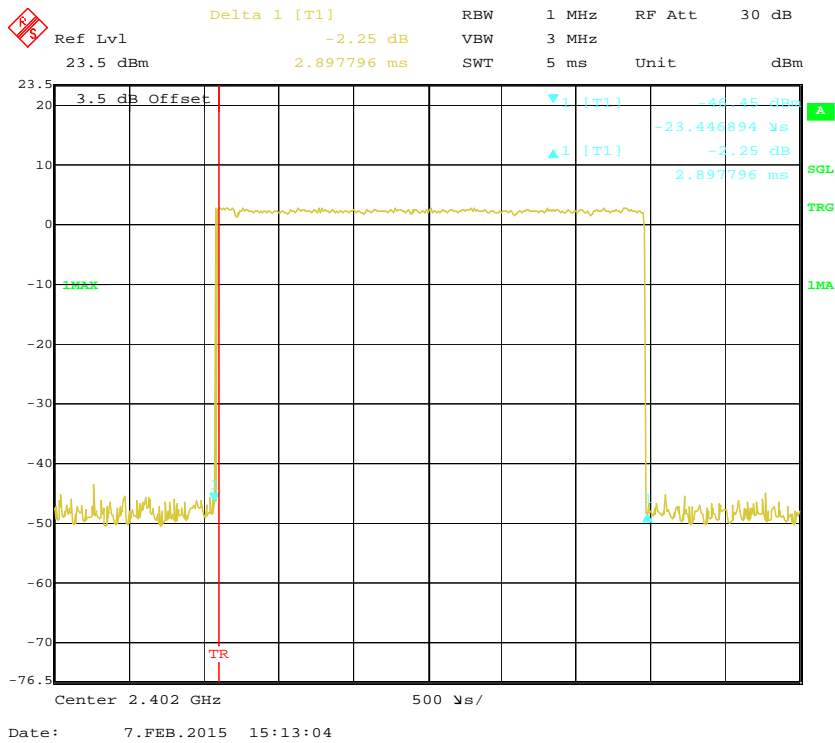


Date: 7.FEB.2015 15:04:38

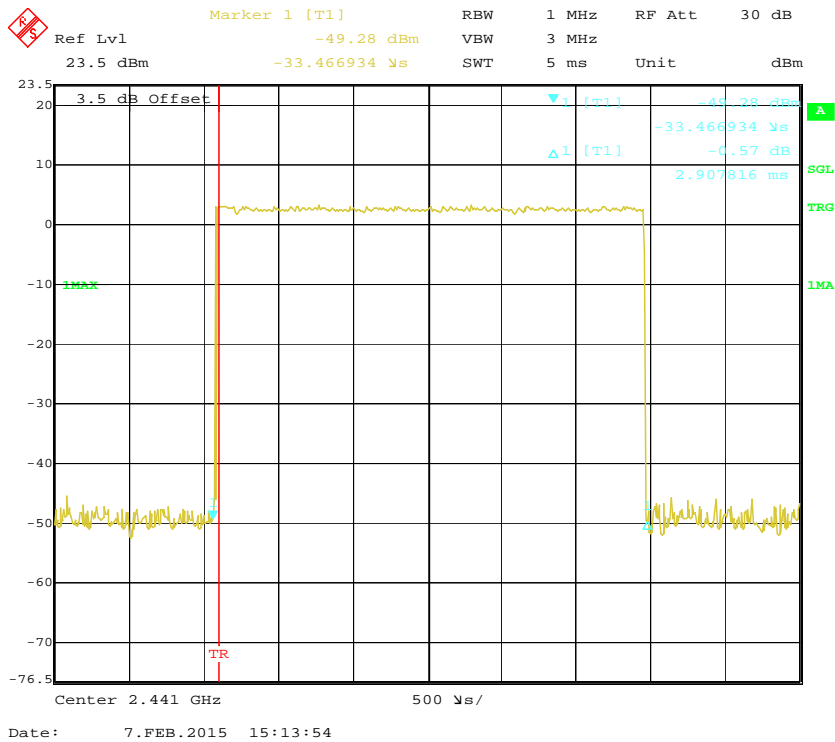
### Pulse time, High Channel, 2DH3



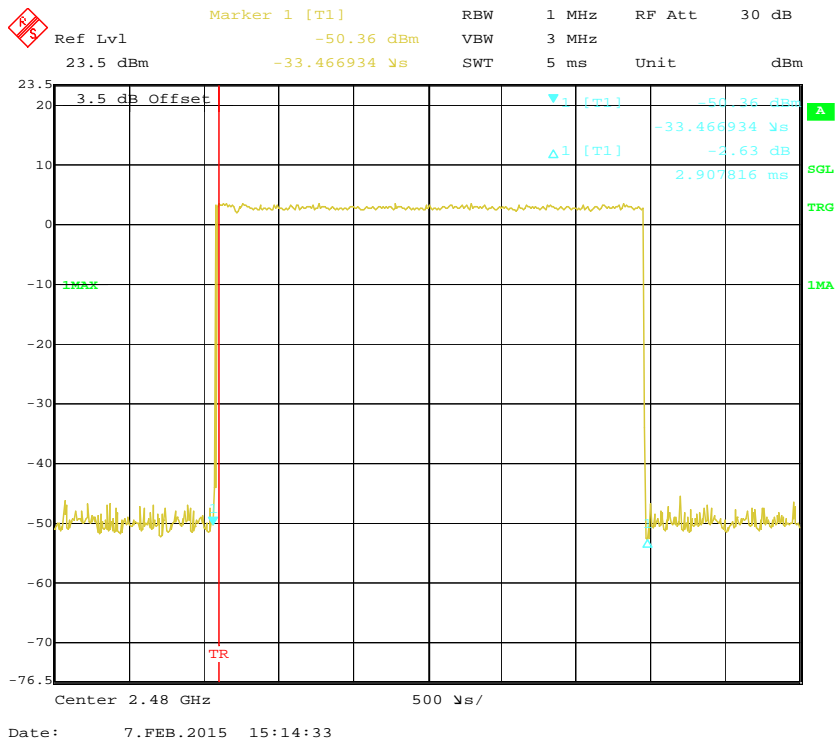
### Pulse time, Low Channel, 2DH5



### Pulse time, Middle Channel, 2DH5

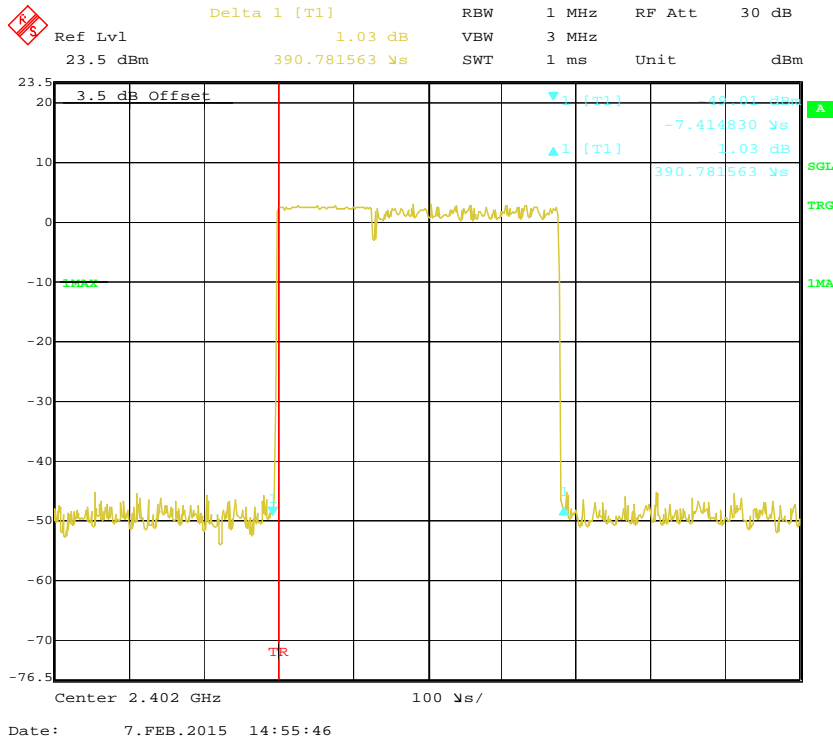


### Pulse time, High Channel, 2DH5

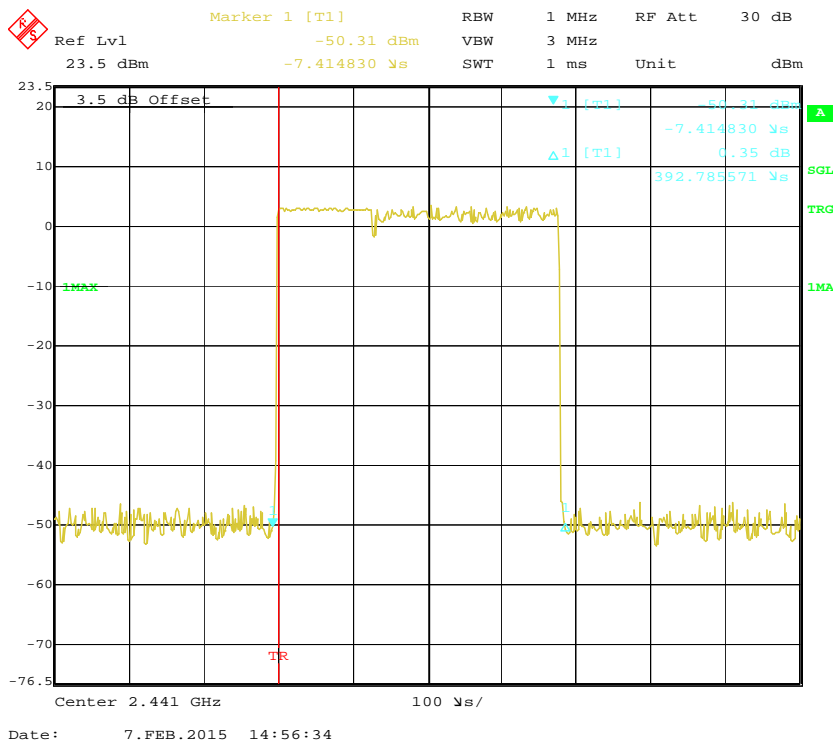


**EDR (8DPSK):**

**Pulse time, Low Channel, 3DH1**

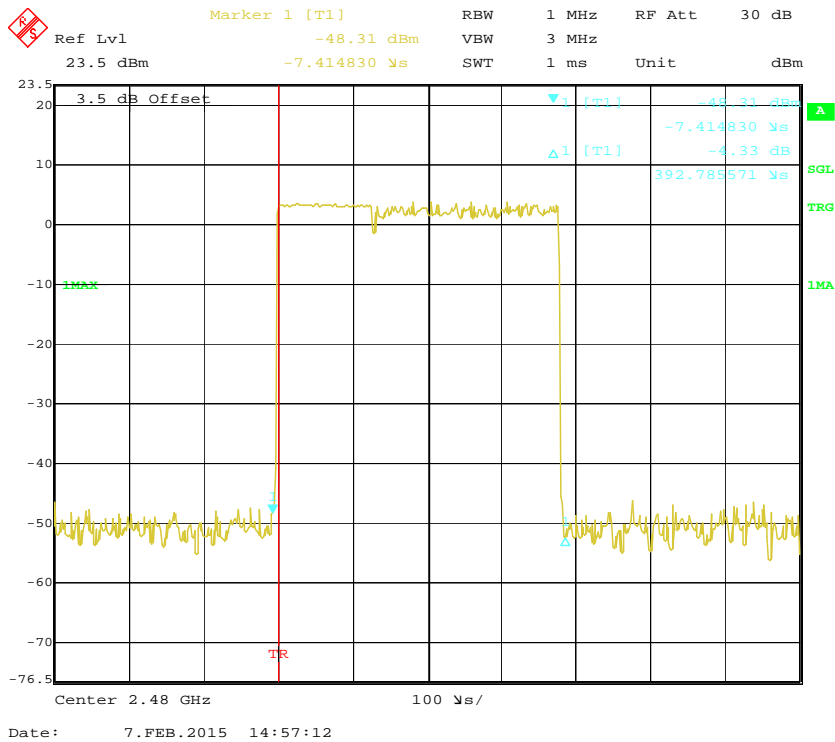


**Pulse time, Middle Channel, 3DH1**

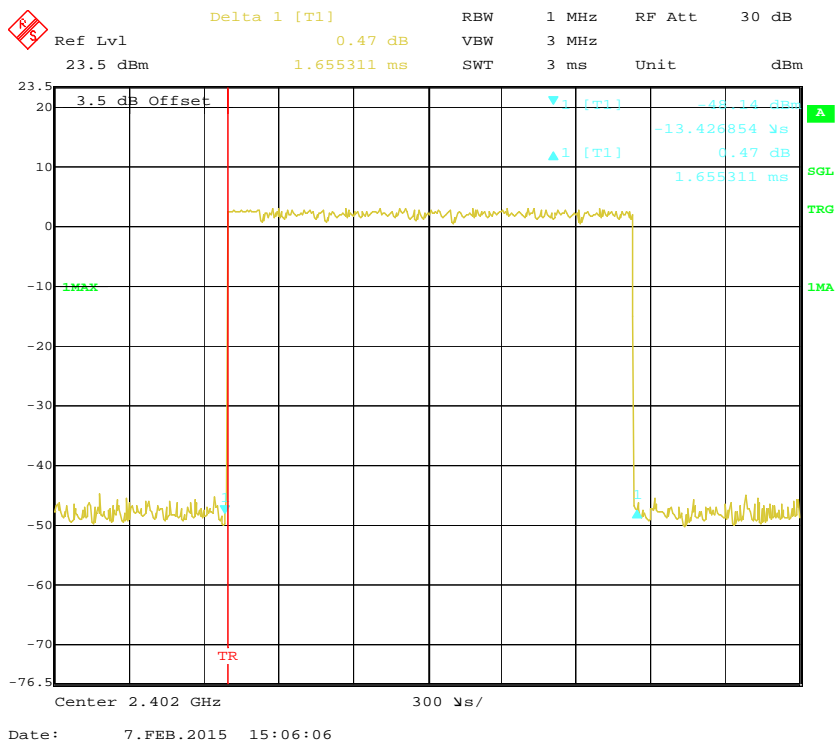




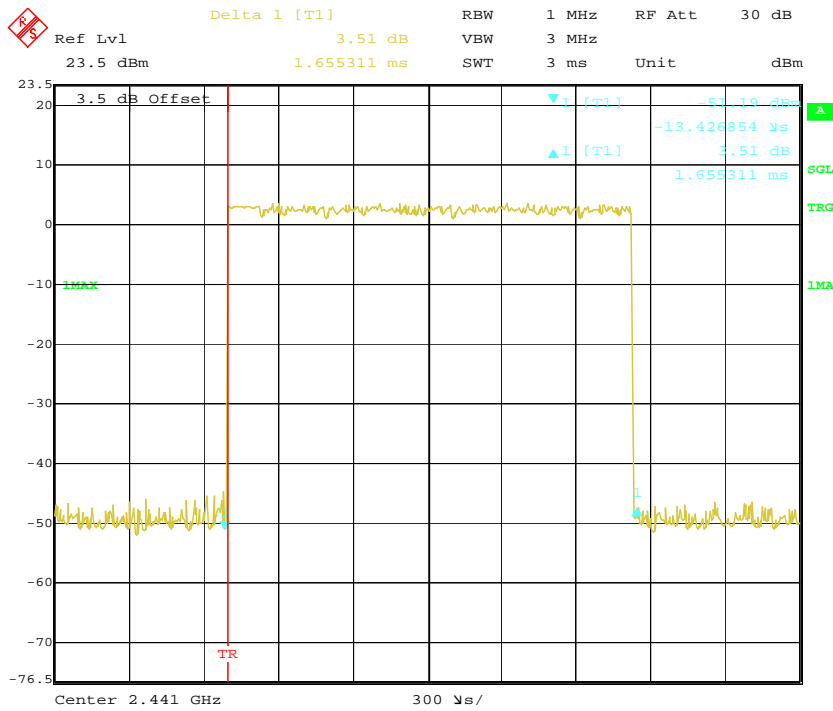
### Pulse time, High Channel, 3DH1



### Pulse time, Low Channel, 3DH3

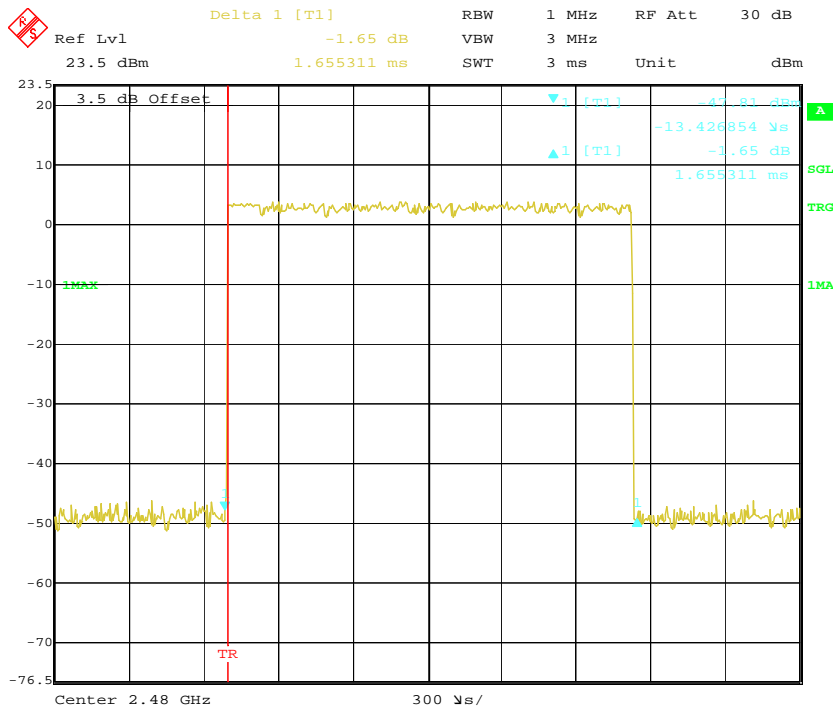


### Pulse time, Middle Channel, 3DH3



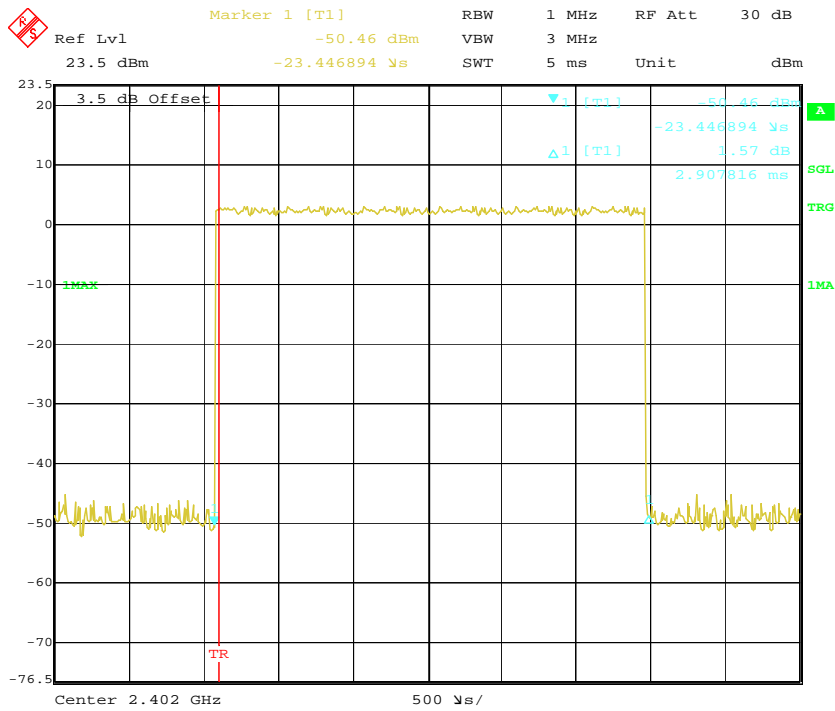
Date: 7.FEB.2015 15:08:36

### Pulse time, High Channel, 3DH3



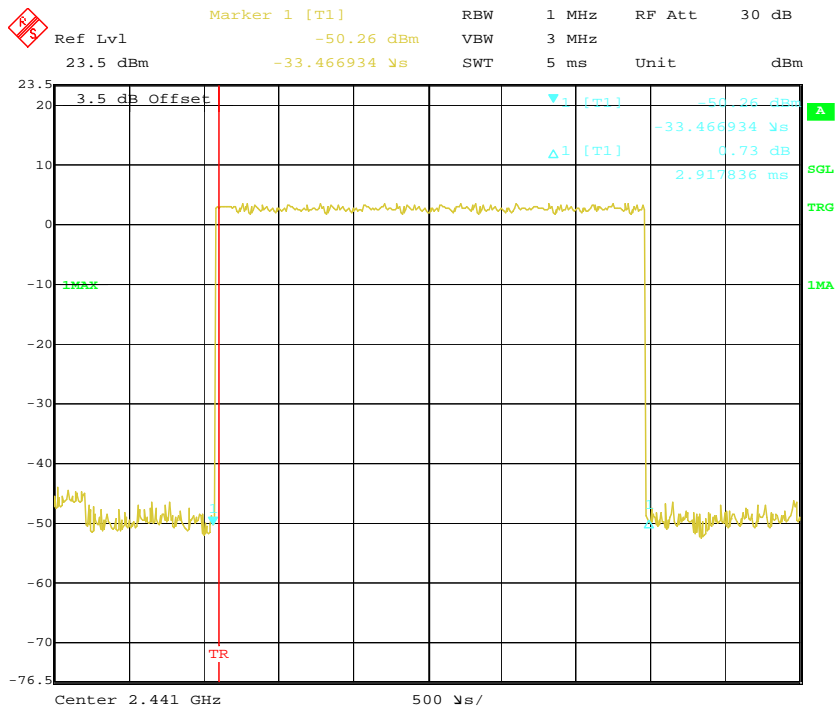
Date: 7.FEB.2015 15:09:08

**Pulse time, Low Channel, 3DH5**



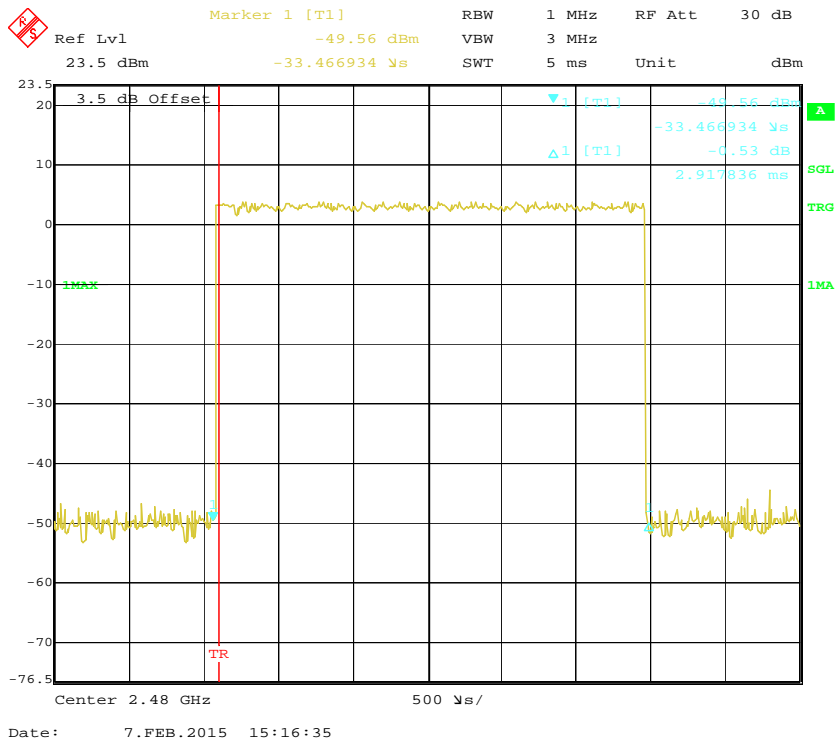
Date: 7.FEB.2015 15:15:22

**Pulse time, Middle Channel, 3DH5**



Date: 7.FEB.2015 15:16:10

**Pulse time, High Channel, 3DH5**



## 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. And 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
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

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

### Test Data

#### Environmental Conditions

Temperature:	23 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

*The testing was performed by Simon Wang on 2015-02-13*

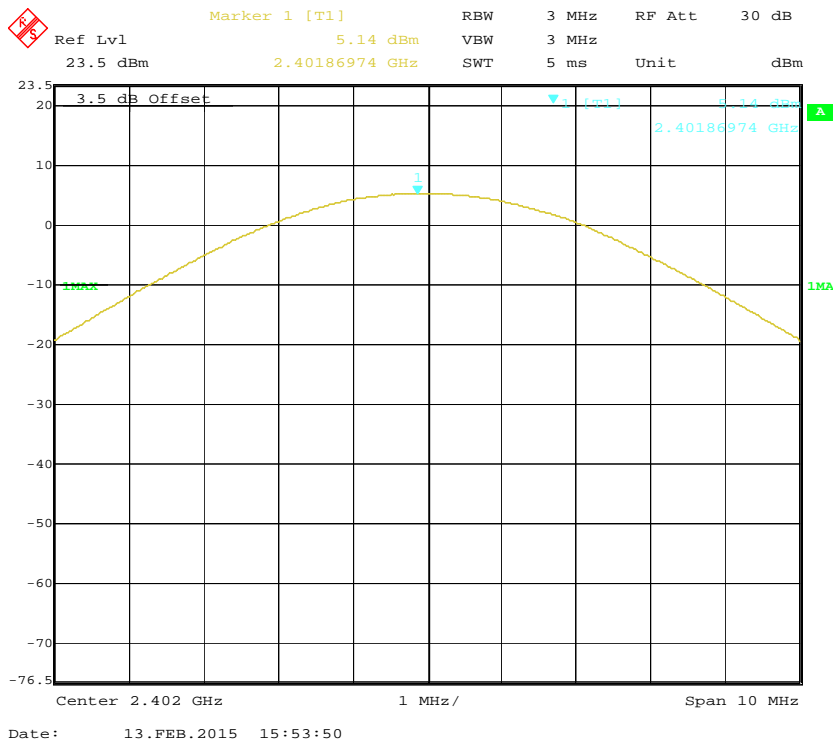
EUT operation mode: Transmitting

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

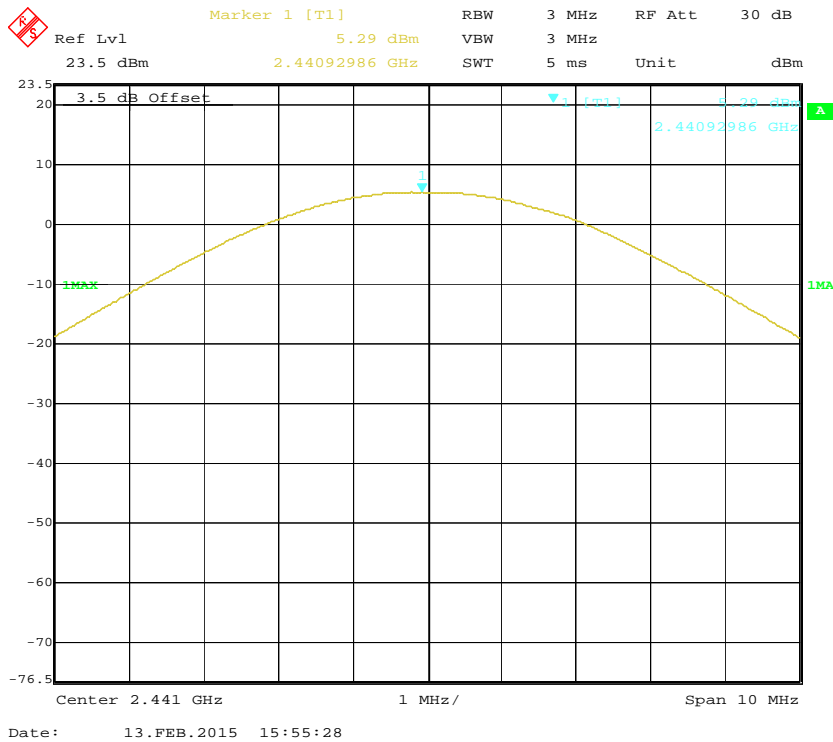
Mode	Channel	Frequency (MHz)	Conducted Output Power		Limit (mW)
			(dBm)	(mW)	
BDR (GFSK)	Low	2402	5.14	3.27	1000
	Middle	2441	5.29	3.38	1000
	High	2480	5.35	3.43	1000
EDR ( $\pi/4$ -DQPSK)	Low	2402	4.38	2.74	1000
	Middle	2441	4.57	2.86	1000
	High	2480	4.69	2.94	1000
EDR (8DPSK)	Low	2402	4.32	2.70	1000
	Middle	2441	4.51	2.82	1000
	High	2480	4.64	2.91	1000

Note: The data above was tested in conducted mode.

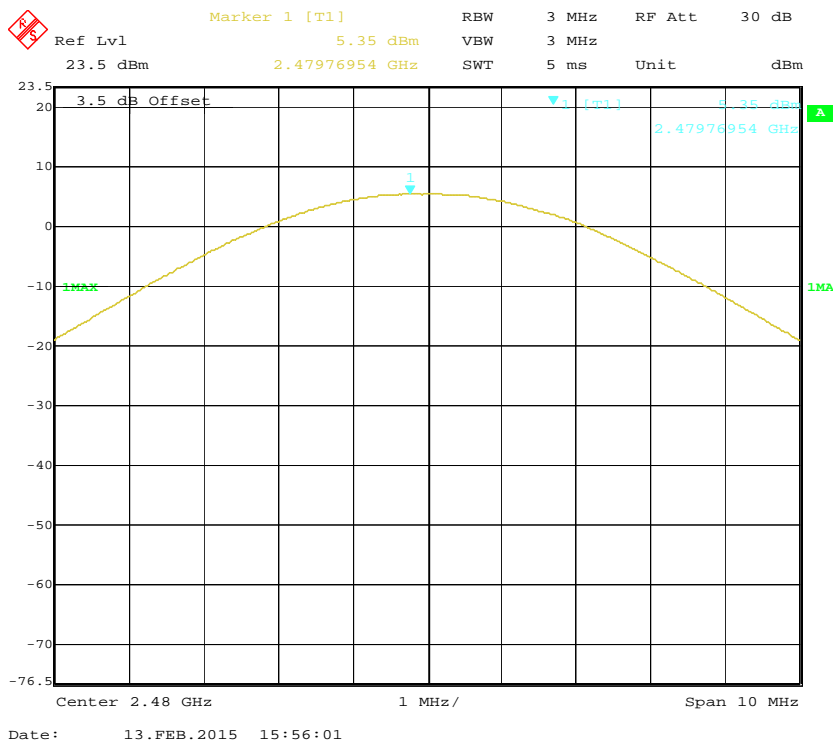
**BDR (GFSK): Low Channel**



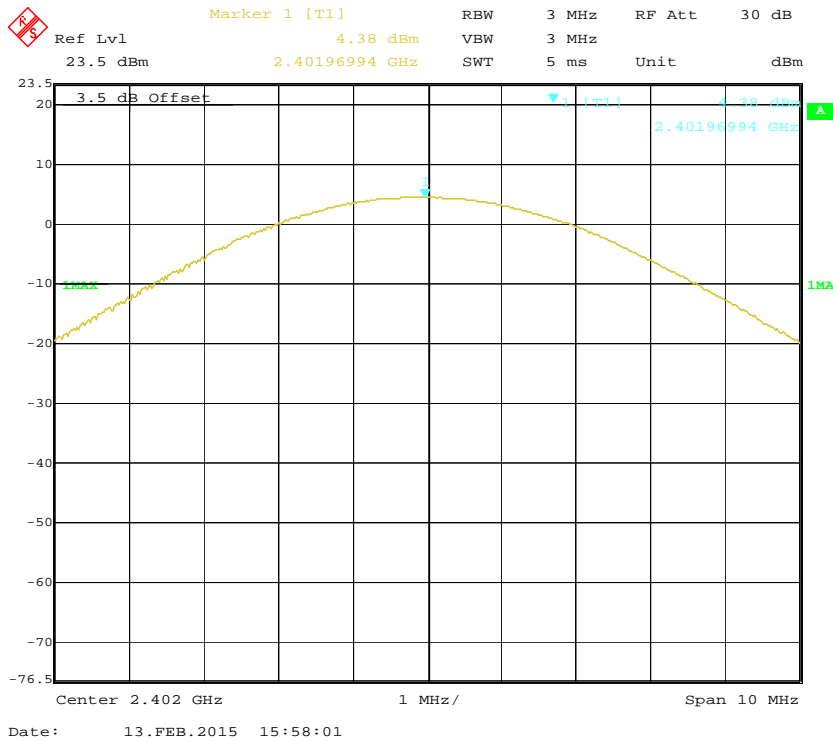
**BDR (GFSK): Middle Channel**



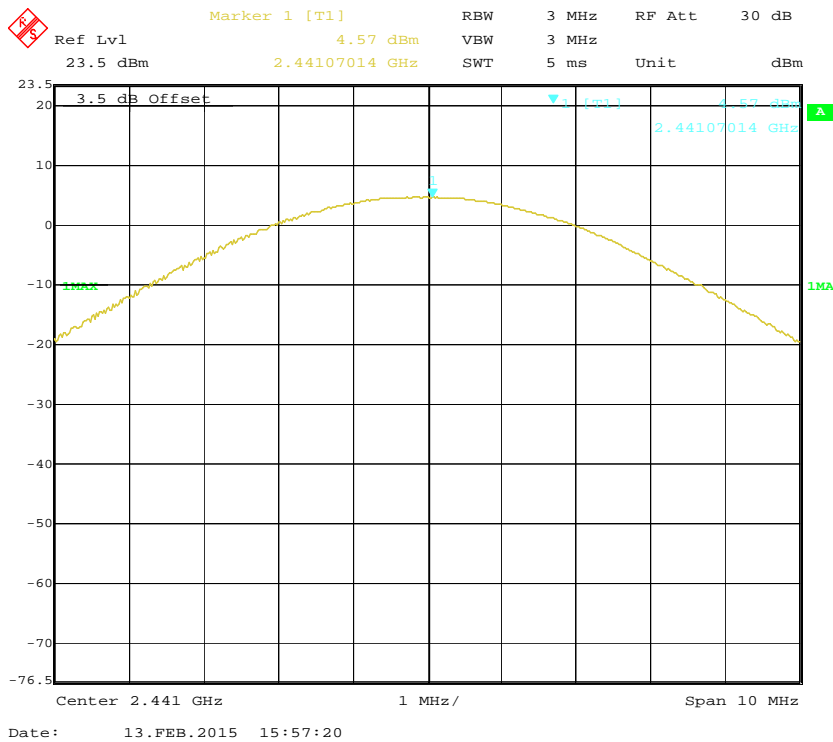
**BDR (GFSK): High Channel**



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

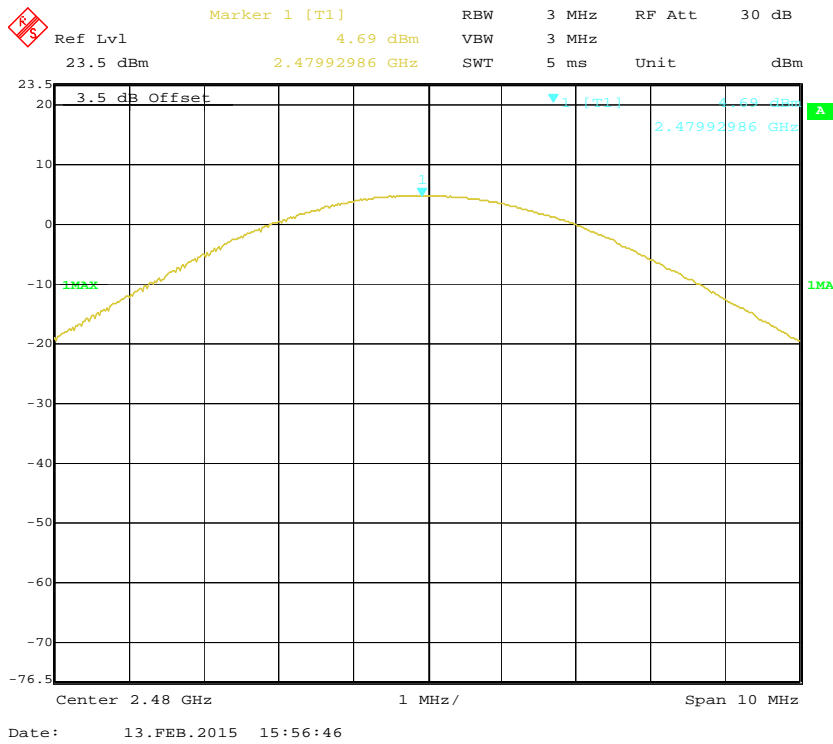


**EDR( $\pi/4$ -DQPSK): Middle Channel**

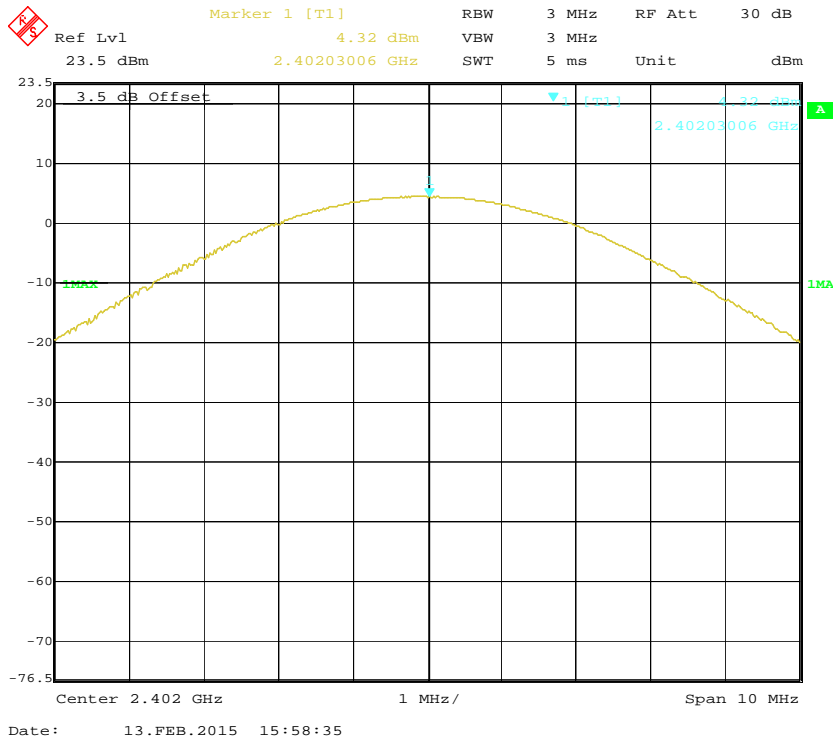




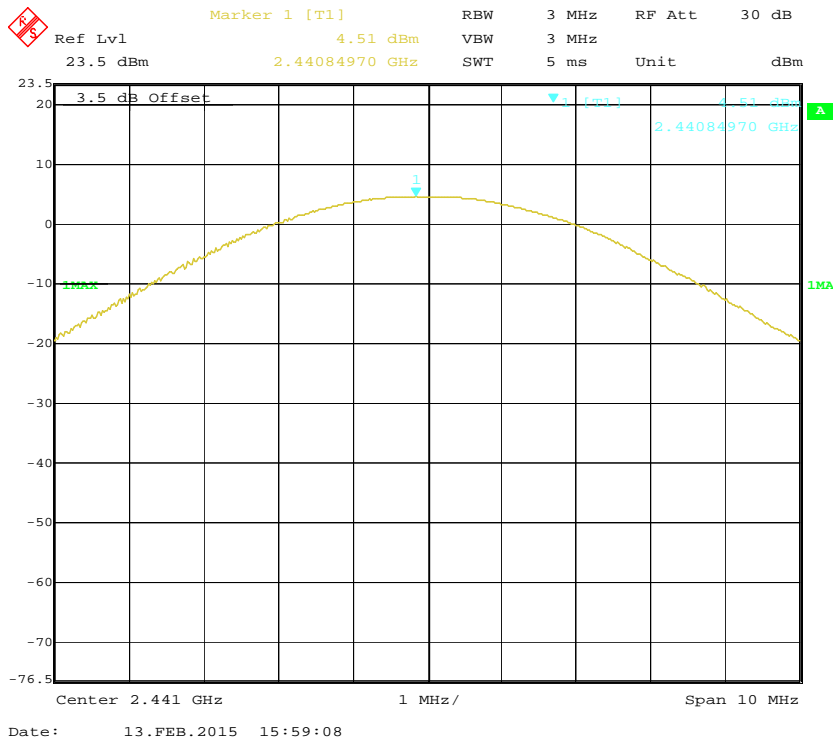
### EDR( $\pi/4$ -DQPSK): High Channel



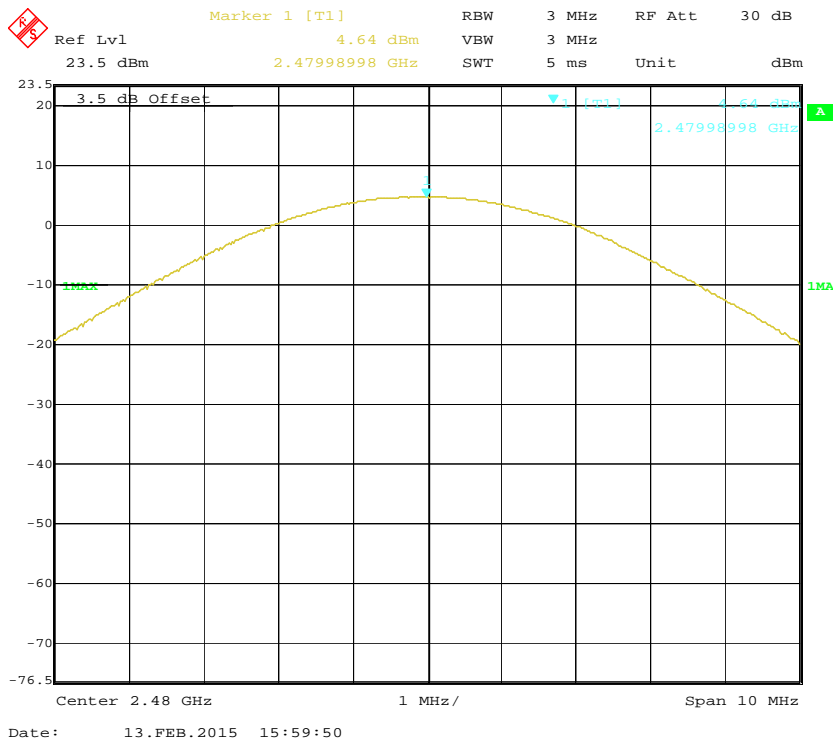
### EDR(8DPSK): Low Channel



**EDR(8DPSK): Middle Channel**



**EDR(8DPSK): High Channel**



## FCC §15.247(d) - BAND EDGES TESTING

### Applicable Standard

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

### Test Procedure

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

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

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

### Test Data

#### Environmental Conditions

Temperature:	23 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

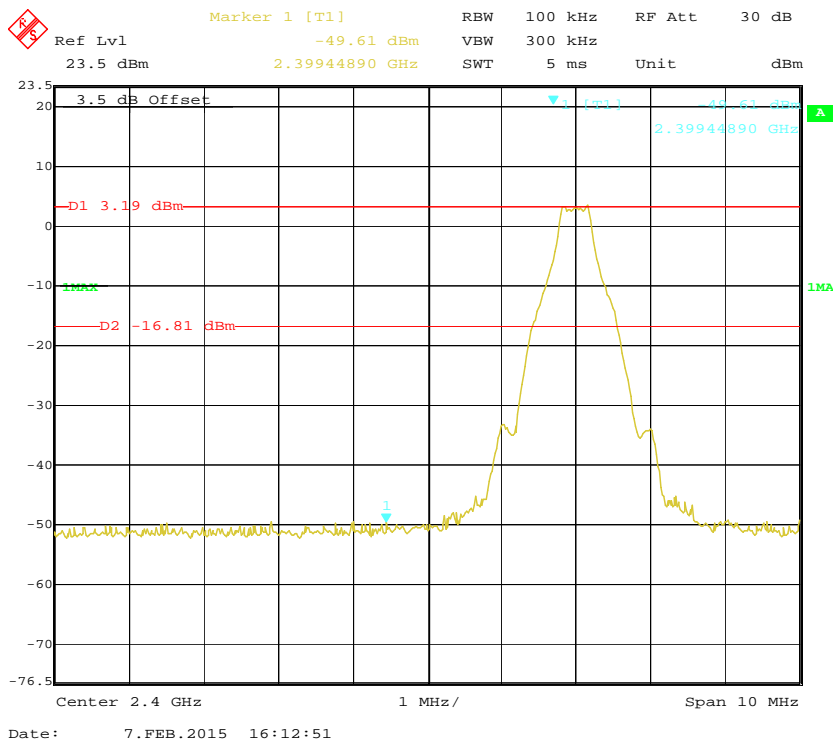
*The testing was performed by Simon Wang on 2015-02-13*

EUT operation mode: Transmitting

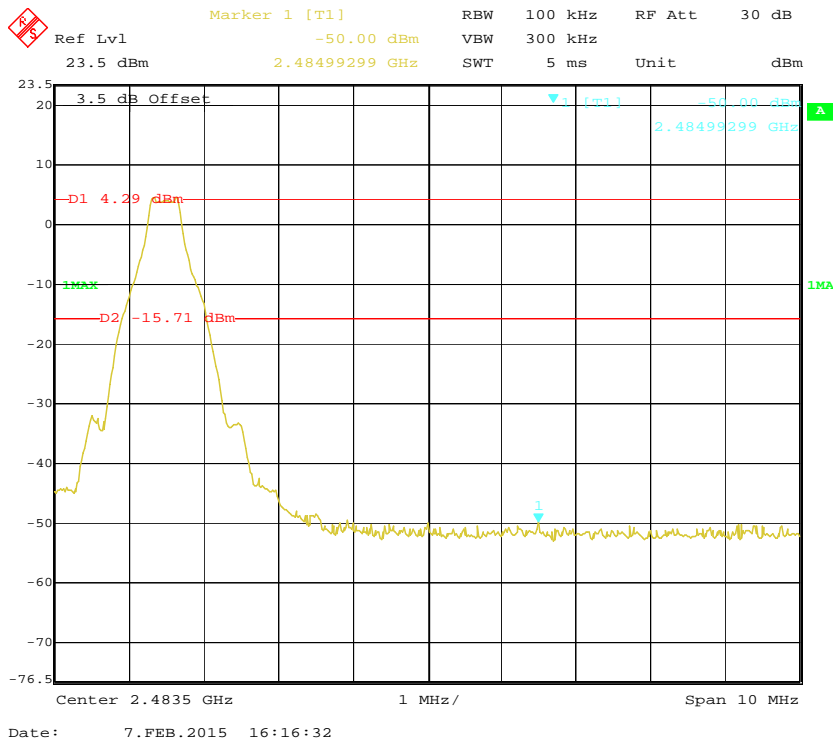
Test Result: Compliance. Please refer to following tables and plots.

Mode	Band edges	Delta Peak to band emission (dBc)	Limit (dBc)
GFSK	Left band	49.61	20
	Right band	50.00	20
$\pi/4$ -DQPSK	Left band	49.08	20
	Right band	48.89	20
8-DPSK	Left band	48.84	20
	Right band	49.43	20

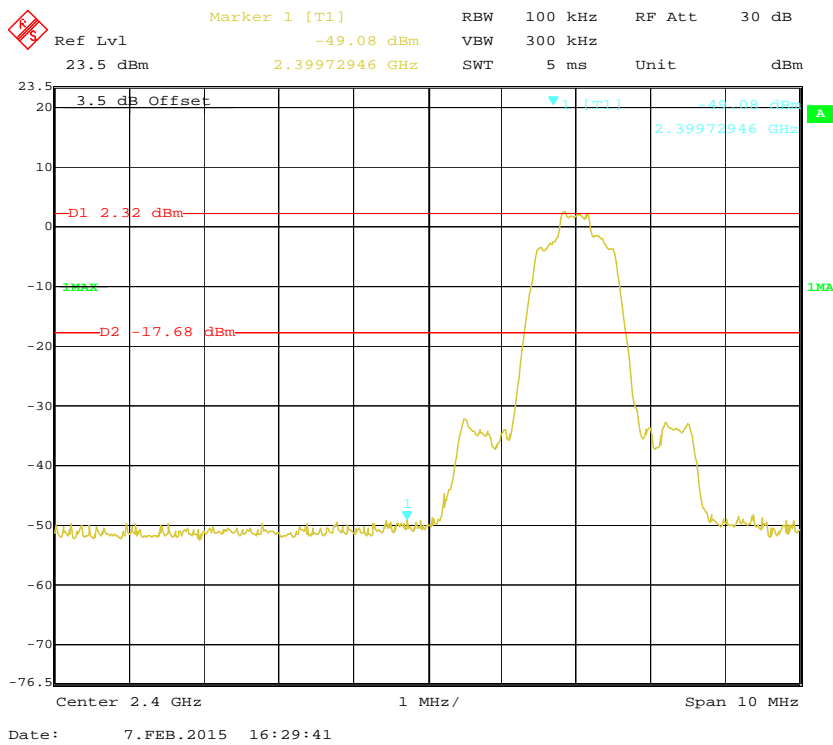
**BDR (GFSK): Band Edge-Left Side**



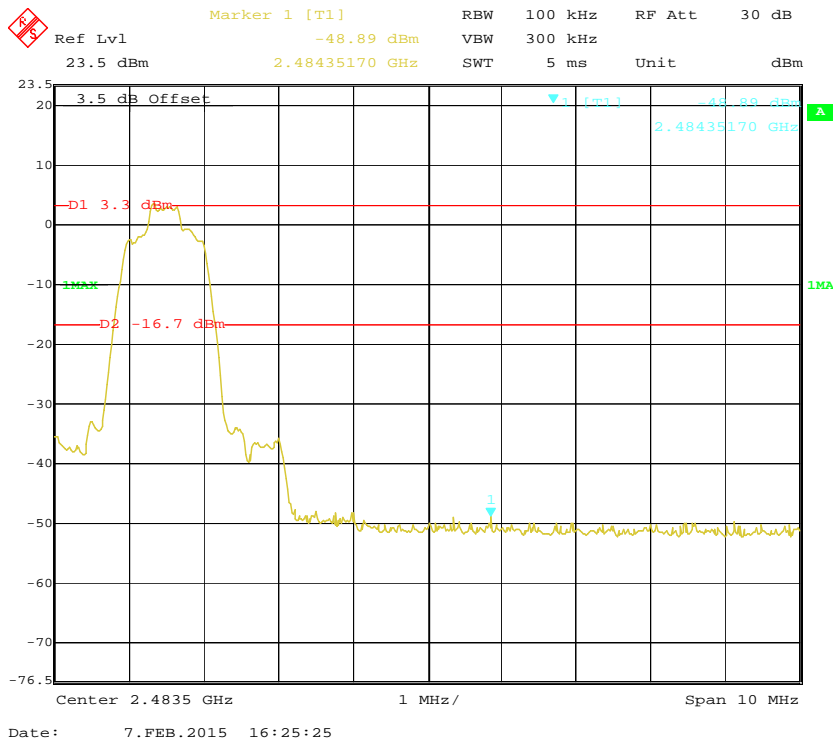
**BDR (GFSK): Band Edge-Right Side**



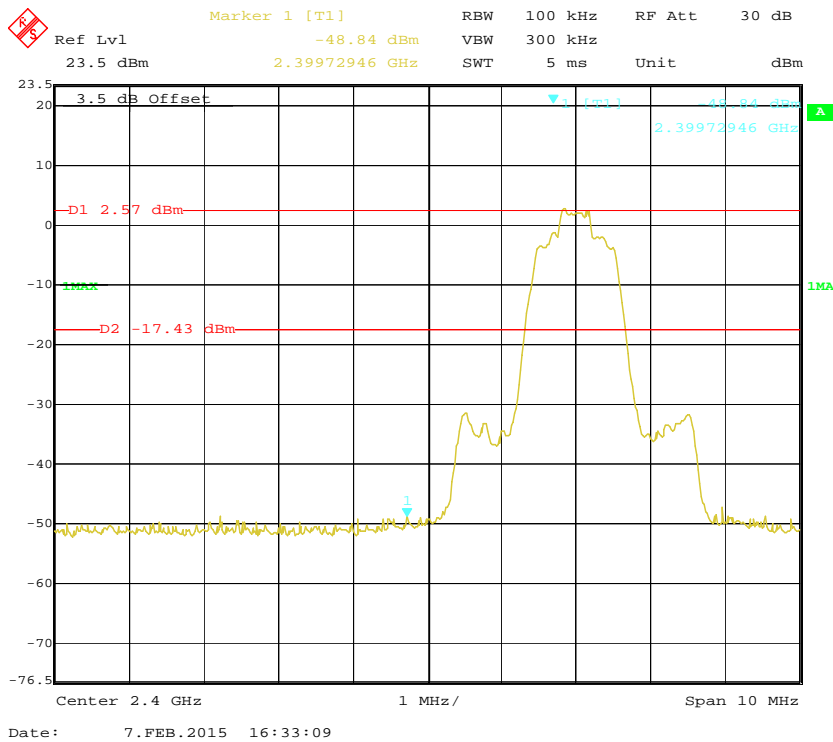
**EDR ( $\pi/4$ -DQPSK): Band Edge-Left Side**



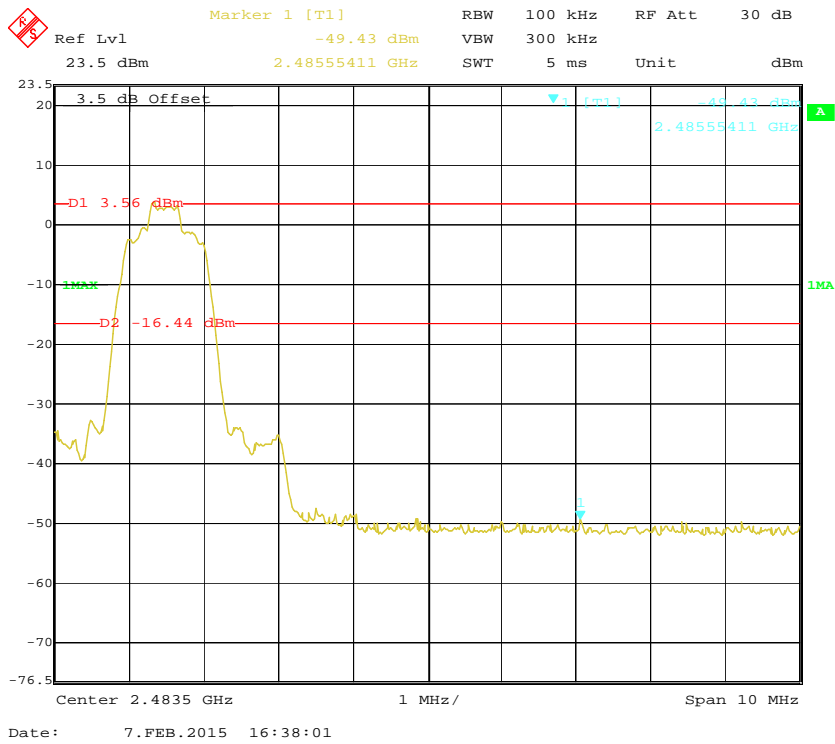
**EDR ( $\pi/4$ -DQPSK): Band Edge-Right Side**



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



### BDR (8DPSK): Band Edge-Right Side



---

## **PRODUCT SIMILARITY DECLARATION LETTER**

---

Shenzhen Linpa Technology Co.,Ltd  
114,C8, Flavor Commercial Street, Vanke Dream Town  
Longgang District,Shenzhen City, China  
Tel: 86-755-89506972 Fax: 86-755-89506972

---

2/13/2015

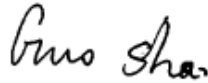
### **Product Similarity Declaration**

To Whom It May Concern,

We, Shenzhen Linpa Technology Co.,Ltd, hereby declare that we have a product named as BT HEADPHONE (Model no: LBS18) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models(LBS18, PBT98) on reports and certificate, all the models are identical schematics except for named differently. We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature:

Guo,Sha



Attestation Engineer

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