

FCC PART 15.247 TEST REPORT

For

ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida, United States

FCC ID: YPVITALCOMNOBAII

Report Type: Original Report	Product Type: Mobile Phone
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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.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *ITALCOM GROUP*'s product, model number: *noba II* (FCC ID: *YPVITALCOMNOBAII*) or the "EUT" in this report was a *Mobile Phone*, which was measured approximately: 12.27 cm (L) x 6.42 cm (W) x 1.26 cm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC 4.2V charging from adapter.

Adapter information:

Input: AC 100-250V, 50/60Hz

Output: DC 4.2V \pm 0.5V, 500mA

**All measurement and test data in this report was gathered from production sample serial number: 000000000 (Assigned by applicant). The EUT supplied by the applicant was received on 2014-03-04.*

Objective

This test report is prepared on behalf of *ITALCOM GROUP* 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)

FCC Part 15.247 DTS, Part 22H&24E PCE and Part 15B JBP submissions with FCC ID: YPVITALCOMNOBAII

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 3rd 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 configured for testing in an engineering mode.

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

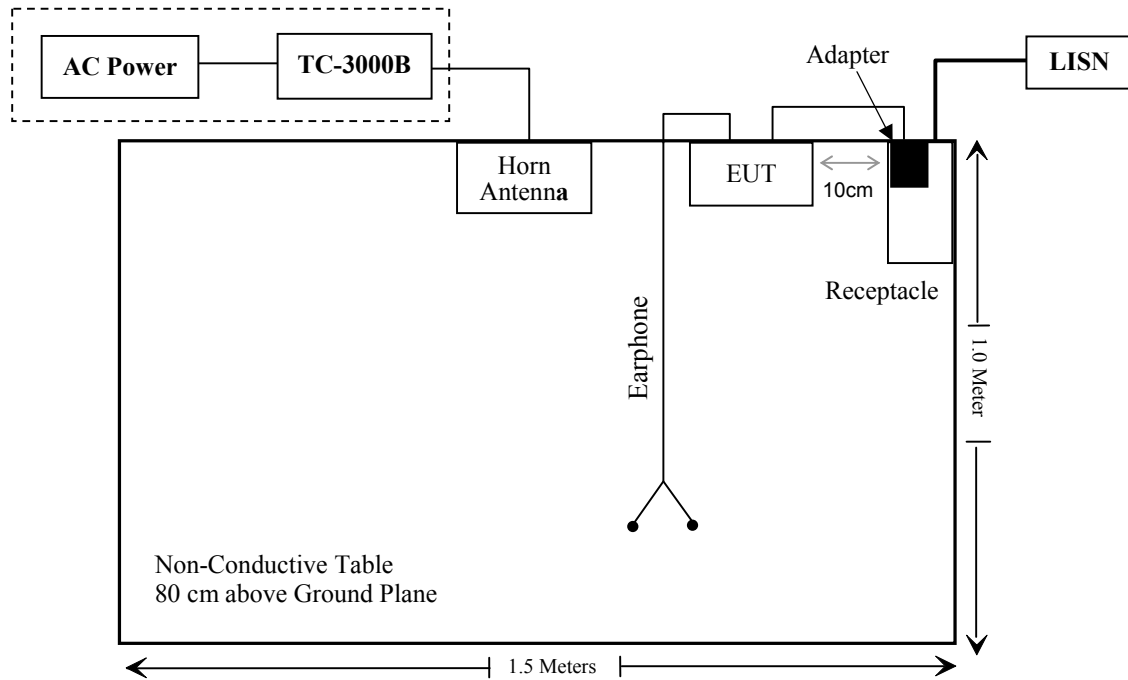
Manufacturer	Description	Model	Serial Number
TESCOM	Bluetooth Tester	TC-3000B	3000B630010

External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For conducted emission



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §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 FCC §2.1093 and §1.1307(b) (1), 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.

The SAR data please refer to the SAR report, report No.: RSZ140304016-20.

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 bluetooth, which the gain is -2.0 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 maybe receiver reading, attenuation of the connection between AMN/ISN and receiver, AMN/ISN voltage division factor, AMN/ISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended 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 adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

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

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

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

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the 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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2013-06-17	2014-06-17
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2013-05-07	2014-05-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2013-10-15	2014-10-15
Rohde & Schwarz	CE Test software	EMC 32	V8.53	-	-

* **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:

13.9 dB at 1.783210 MHz in the Neutral conducted mode

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

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

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.

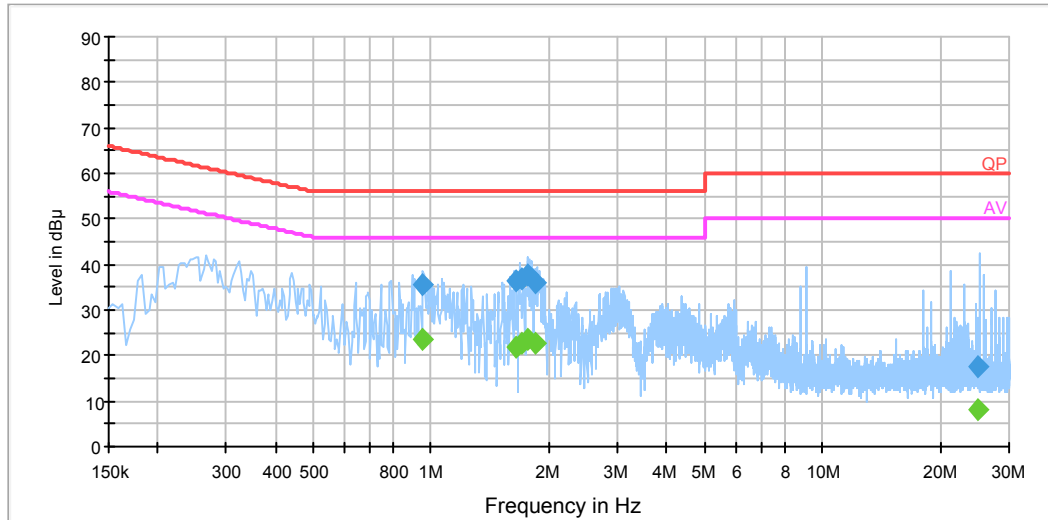
Test Data

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by David Lee on 2014-03-12.

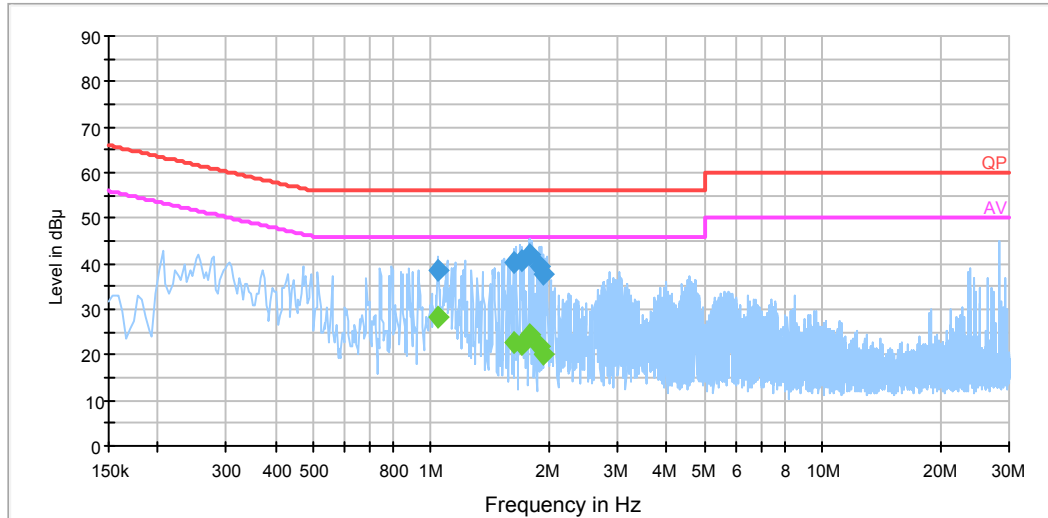
EUT operation mode: Charging & Transmitting

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)
0.955690	35.4	19.5	56.0	20.6	QP
0.955690	23.4	19.5	46.0	22.6	Ave.
1.645370	36.4	19.5	56.0	19.6	QP
1.645370	21.8	19.5	46.0	24.2	Ave.
1.696710	36.9	19.5	56.0	19.1	QP
1.696710	22.6	19.5	46.0	23.4	Ave.
1.775510	37.7	19.5	56.0	18.3	QP
1.775510	23.7	19.5	46.0	22.3	Ave.
1.842070	36.0	19.5	56.0	20.0	QP
1.842070	22.5	19.5	46.0	23.5	Ave.
25.008690	17.7	20.1	60.0	42.3	QP
25.008690	8.3	20.1	50.0	41.7	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)
1.046430	38.6	19.5	56.0	17.4	QP
1.046430	28.1	19.5	46.0	17.9	Ave.
1.625310	40.2	19.6	56.0	15.8	QP
1.625310	22.9	19.6	46.0	23.1	Ave.
1.700650	40.7	19.6	56.0	15.3	QP
1.700650	22.3	19.6	46.0	23.7	Ave.
1.783210	42.1	19.6	56.0	13.9	QP
1.783210	24.3	19.6	46.0	21.7	Ave.
1.889350	39.3	19.6	56.0	16.7	QP
1.889350	21.9	19.6	46.0	24.1	Ave.
1.925470	37.7	19.6	56.0	18.3	QP
1.925470	20.1	19.6	46.0	25.9	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

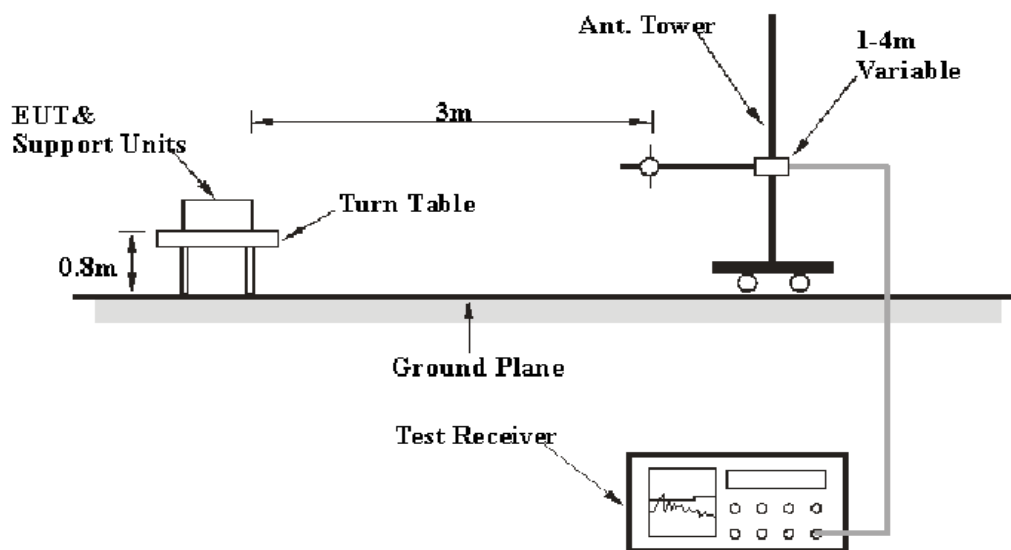
FCC §15.205; §15.209; §15.247(d)

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.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.91 dB for 30MHz-1GHz, and 4.92 dB for above 1GHz. And this uncertainty will not be taken into consideration for the test data recorded in the report.

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	2013-09-30	2014-09-30
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2013-11-12	2014-11-12
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Mini	Amplifier	ZVA-183-S+	5969001149	2013-04-03	2014-04-03
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2013-08-03	2014-08-03
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2013-11-12	2014-11-12
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
Rohde & Schwarz	CE Test software	EMC 32	V9.10	-	-

* **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.

14.44 dB at 9764.0 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 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

Temperature:	21 °C
Relative Humidity:	52 %
ATM Pressure:	100.1 kPa

The testing was performed by David Lee on 2014-03-10.

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 (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2402 MHz)									
172.1	34.53	QP	268	1.1	V	-15.3	19.23	43.5	24.27
2402.0	89.44	PK	296	1.5	H	5.48	94.92	/	/
2402.0	78.07	AV	296	1.5	H	5.48	83.55	/	/
2402.0	88.01	PK	282	2.4	V	5.48	93.49	/	/
2402.0	77.24	AV	282	2.4	V	5.48	82.72	/	/
2361.3	35.28	PK	234	1.1	H	5.48	40.76	74	33.24
2361.3	20.16	AV	234	1.1	H	5.48	25.64	54	28.36
2375.1	35.02	PK	50	1.1	H	5.48	40.50	74	33.50
2375.1	21.36	AV	50	1.1	H	5.48	26.84	54	27.16
2489.6	34.44	PK	208	1.8	V	7.21	41.65	74	32.35
2489.6	20.57	AV	208	1.8	V	7.21	27.78	54	26.22
4804.0	35.41	PK	112	1.3	V	12.44	47.85	74	26.15
4804.0	21.09	AV	112	1.3	V	12.44	33.53	54	20.47
7206.0	35.11	PK	41	1.7	H	17.06	52.17	74	21.83
7206.0	20.08	AV	41	1.7	H	17.06	37.14	54	16.86
9608.0	34.56	PK	196	1.3	H	19.28	53.84	74	20.16
9608.0	19.72	AV	196	1.3	H	19.28	39.00	54	15.00
Middle Channel (2441 MHz)									
172.1	34.39	QP	334	1.3	V	-15.3	19.09	43.5	24.41
2441.0	88.76	PK	227	1.9	H	6.13	94.89	/	/
2441.0	78.17	AV	227	1.9	H	6.13	84.30	/	/
2441.0	87.78	PK	290	1.1	V	6.13	93.91	/	/
2441.0	77.28	AV	290	1.1	V	6.13	83.41	/	/
2345.2	35.91	PK	128	1.6	V	5.48	41.39	74	32.61
2345.2	20.43	AV	128	1.6	V	5.48	25.91	54	28.09
2377.3	35.45	PK	79	1.6	H	5.48	40.93	74	33.07
2377.3	20.43	AV	79	1.6	H	5.48	25.91	54	28.09
2493.2	34.18	PK	156	1.7	H	7.21	41.39	74	32.61
2493.2	19.14	AV	156	1.7	H	7.21	26.35	54	27.65
4882.0	35.20	PK	241	2.0	V	12.4	47.60	74	26.40
4882.0	20.87	AV	241	2.0	V	12.4	33.27	54	20.73
7323.0	34.81	PK	299	1.6	H	16.49	51.3	74	22.70
7323.0	20.05	AV	299	1.6	H	16.49	36.54	54	17.46
9764.0	34.93	PK	75	2.1	V	19.4	54.33	74	19.67
9764.0	20.16	AV	75	2.1	V	19.4	39.56	54	14.44

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)									
172.1	34.60	QP	167	1.1	V	-15.3	19.30	43.5	24.20
2480.0	87.41	PK	85	1.1	H	7.21	94.62	/	/
2480.0	76.76	AV	85	1.1	H	7.21	83.97	/	/
2480.0	86.26	PK	238	2.5	V	7.21	93.47	/	/
2480.0	76.32	AV	238	2.5	V	7.21	83.53	/	/
2372.4	35.51	PK	210	1.5	V	5.48	40.99	74	33.01
2372.4	21.04	AV	210	1.5	V	5.48	26.52	54	27.48
2487.8	43.62	PK	52	1.6	H	7.21	50.83	74	23.17
2487.8	27.86	AV	52	1.6	H	7.21	35.07	54	18.93
2498.3	35.18	PK	128	2.3	H	7.21	42.39	74	31.61
2498.3	20.01	AV	128	2.3	H	7.21	27.22	54	26.78
4960.0	35.88	PK	333	1.2	V	12.5	48.38	74	25.62
4960.0	21.25	AV	333	1.2	V	12.5	33.75	54	20.25
7440.0	34.62	PK	288	2.5	H	15.9	50.52	74	23.48
7440.0	19.83	AV	288	2.5	H	15.9	35.73	54	18.27
9920.0	34.51	PK	150	1.8	V	19.39	53.9	74	20.10
9920.0	19.27	AV	150	1.8	V	19.39	38.66	54	15.34

Note:

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

Corrected Amplitude = Corrected Factor + Reading

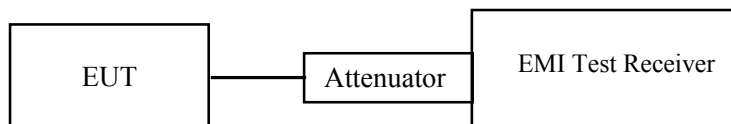
Margin = Limit - Corrected. Amplitude

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	EMI Test Receiver	ESCI	101120	2013-11-12	2014-11-12

* **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:	51 %
ATM Pressure:	101.0 kPa

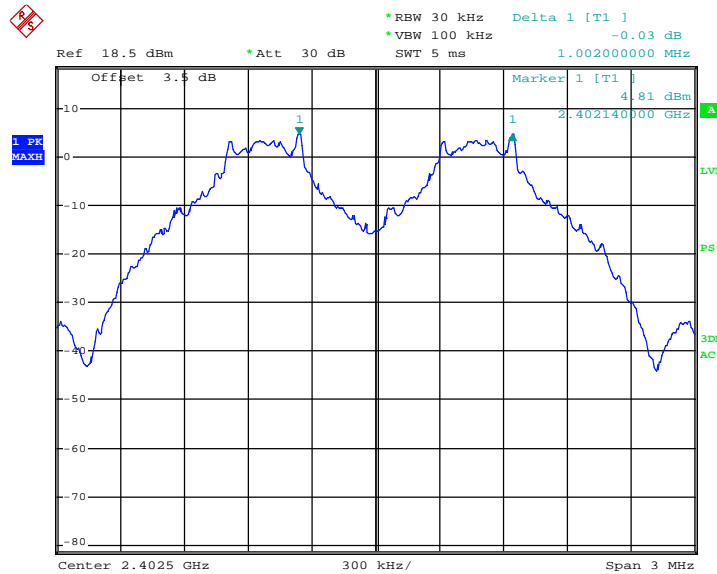
The testing was performed by David Lee on 2014-03-07.

EUT operation mode: Transmitting

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

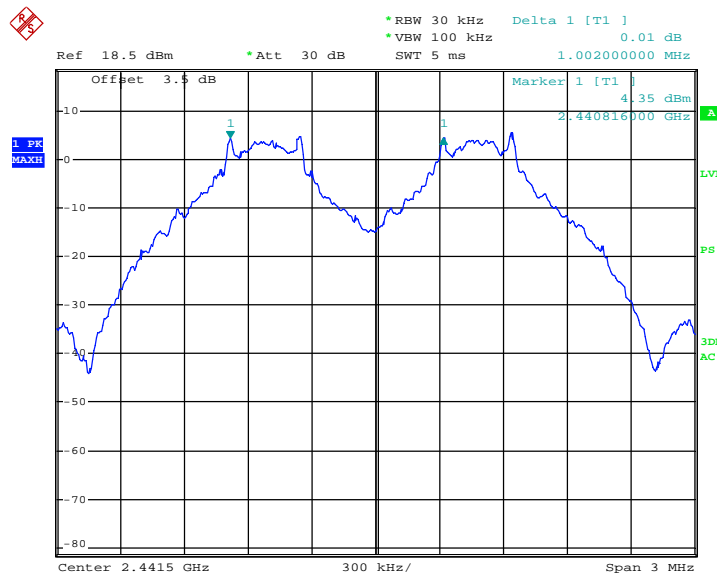
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	\geq Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.002	0.672	Pass
	Adjacent	2403			
	Middle	2441	1.002	0.683	Pass
	Adjacent	2442			
	High	2480	1.008	0.683	Pass
	Adjacent	2479			
EDR ($\pi/4$-DQPSK)	Low	2402	1.002	0.861	Pass
	Adjacent	2403			
	Middle	2441	1.002	0.861	Pass
	Adjacent	2442			
	High	2480	1.008	0.861	Pass
	Adjacent	2479			
EDR (8DPSK)	Low	2402	1.002	0.875	Pass
	Adjacent	2403			
	Middle	2441	1.002	0.875	Pass
	Adjacent	2442			
	High	2480	1.002	0.875	Pass
	Adjacent	2479			

Note: Limit = 20 dB bandwidth *2/3

BDR (GFSK): Low Channel

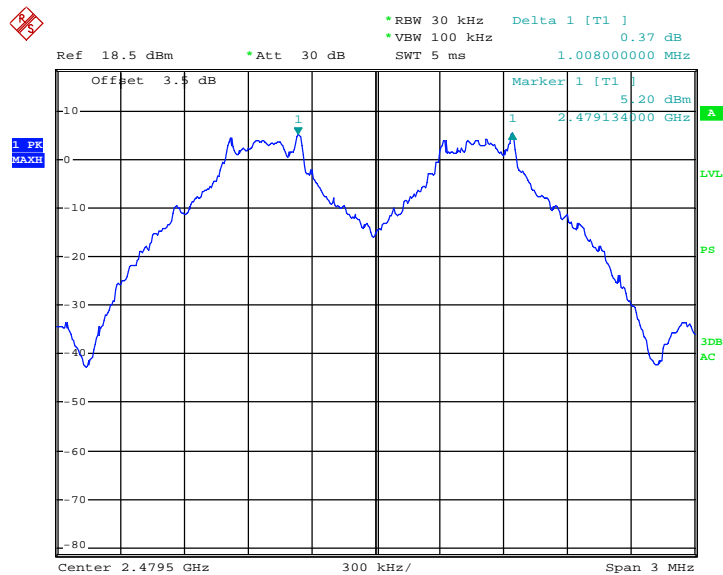
Comment ...

Date: 7.MAR.2014 15:53:24

BDR (GFSK): Middle Channel

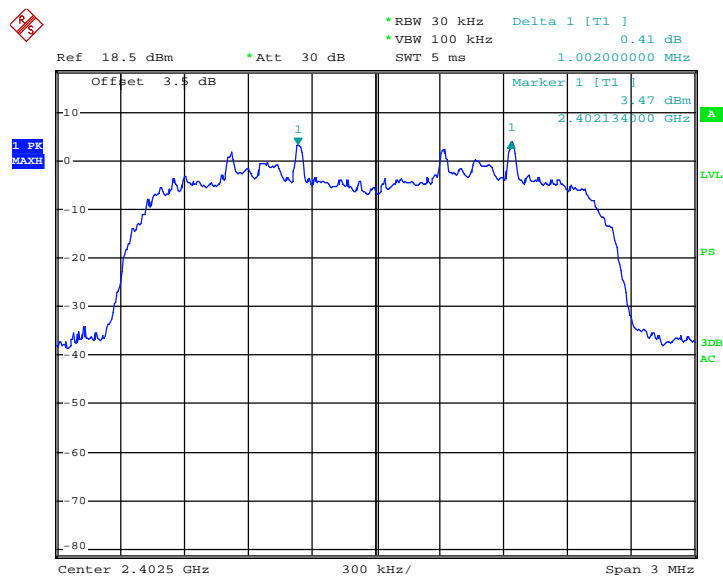
Comment ...

Date: 7.MAR.2014 16:16:52

BDR (GFSK): High Channel

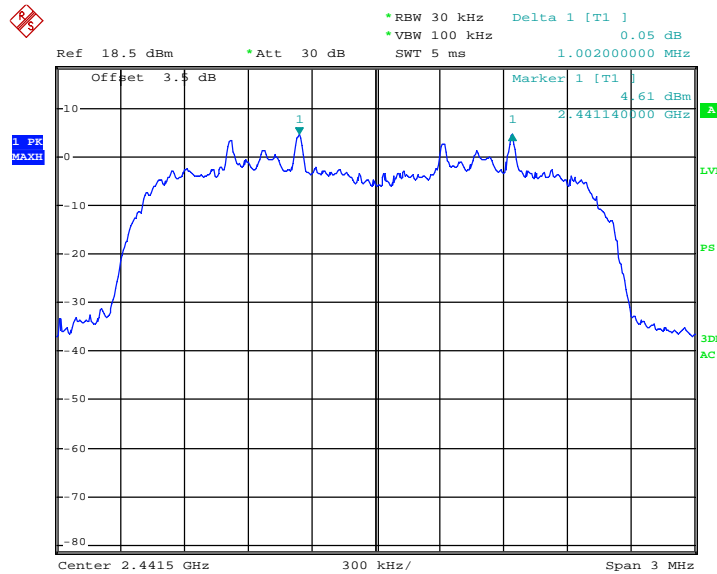
Comment ...

Date: 7.MAR.2014 16:22:11

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

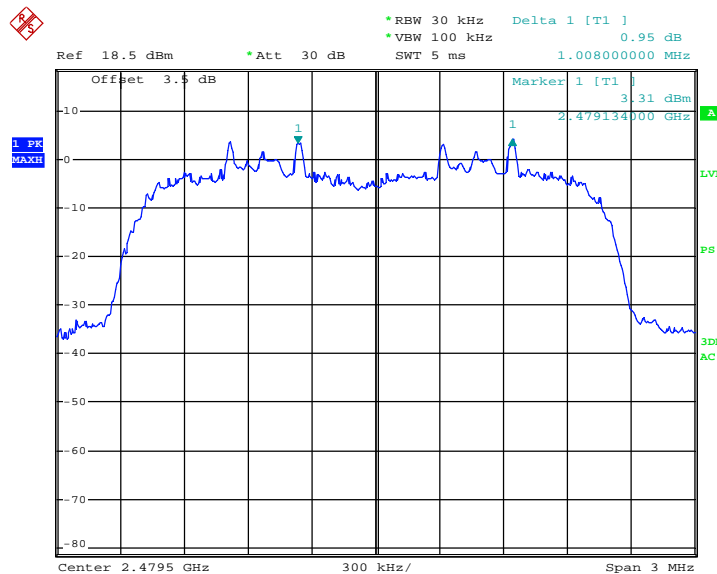
Comment ...

Date: 7.MAR.2014 16:00:21

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

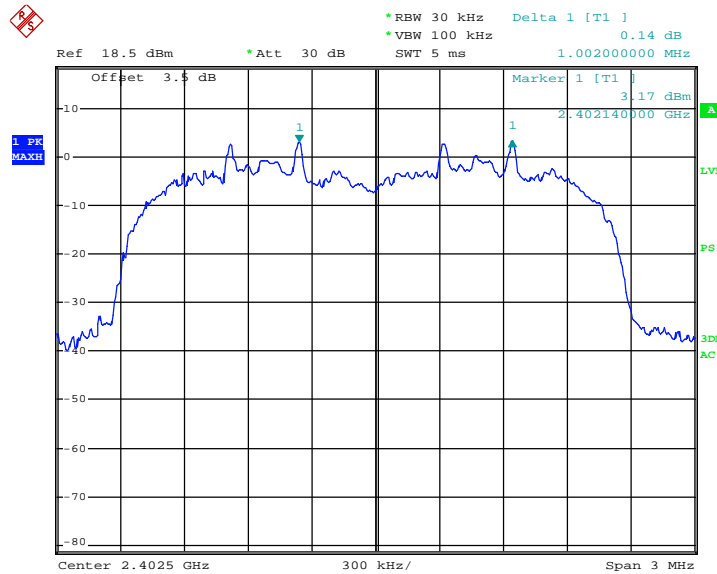
Comment ...

Date: 7.MAR.2014 16:13:40

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

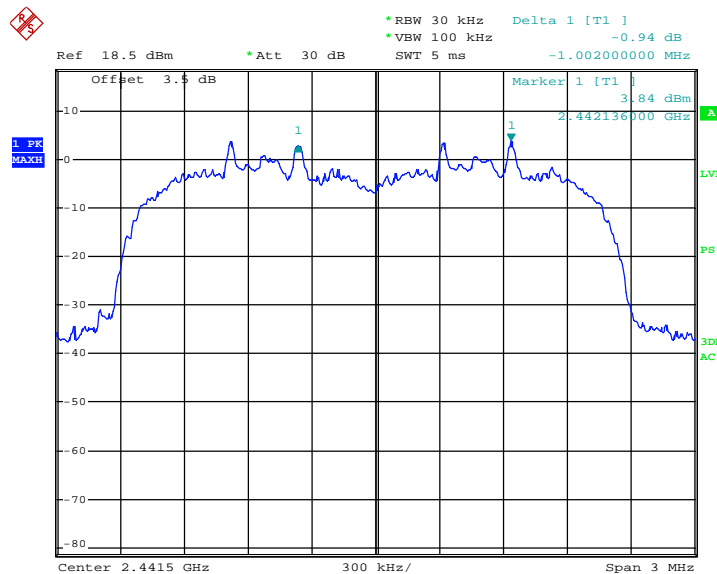
Comment ...

Date: 7.MAR.2014 16:23:43

EDR (8DPSK): Low Channel

Comment ...

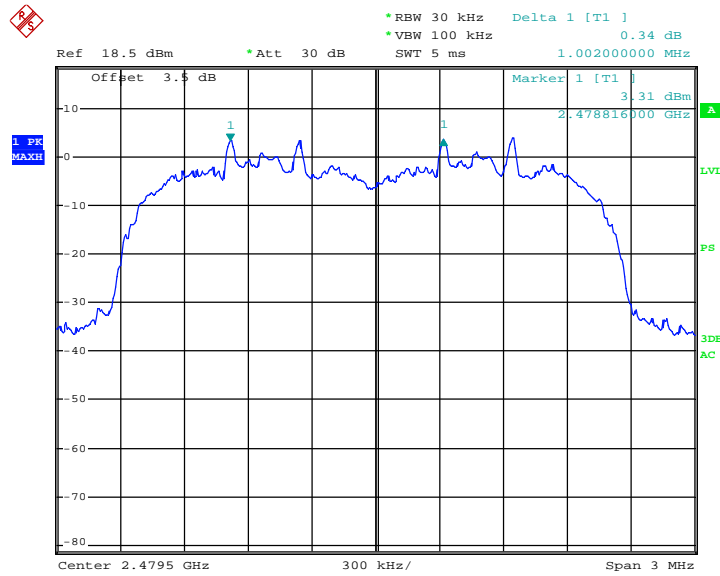
Date: 7.MAR.2014 16:03:58

EDR (8DPSK): Middle Channel

Comment ...

Date: 7.MAR.2014 16:27:54

EDR (8DPSK): High Channel



Comment ...

Date: 7.MAR.2014 16:25:31

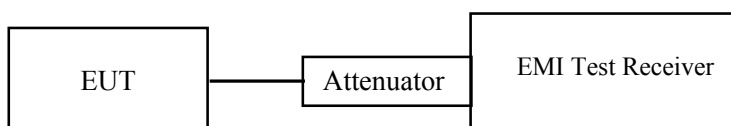
FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

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	EMI Test Receiver	ESCI	101120	2013-11-12	2014-11-12

* **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:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by David Lee on 2014-03-12.

EUT operation mode: Transmitting

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

Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	1.008
	Middle	2441	1.024
	High	2480	1.024
EDR ($\pi/4$ -DQPSK)	Low	2402	1.292
	Middle	2441	1.292
	High	2480	1.292
EDR (8DPSK)	Low	2402	1.312
	Middle	2441	1.312
	High	2480	1.312

Ref 15 dBm * Att 30 dB * RBW 30 kHz Delta 1 [T1] -0.18 dB
 * VBW 100 kHz SWT 2.5 ms 1.008000000 MHz

Offset 3.5 dB Marker 1 [T1] -19.13 dBm
 D1 5 dBm 2.401464000 GHz

1 PR
 MAXH

D2 -15.13 dBm 1 1

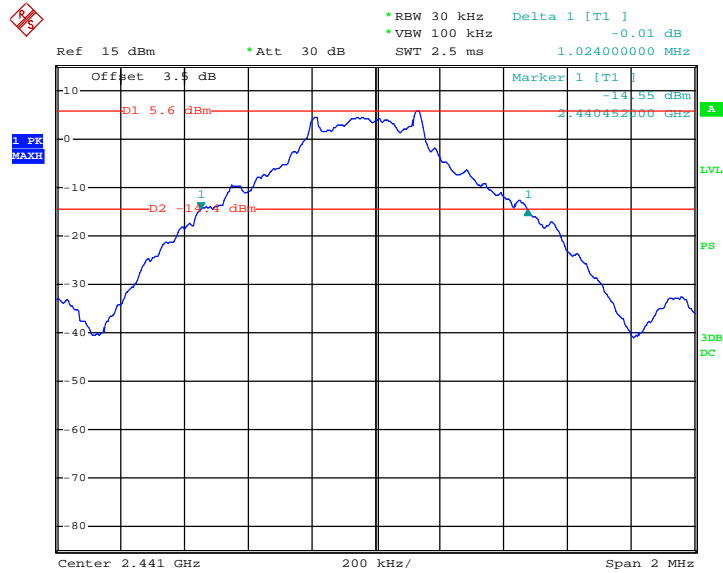
PS 3DB DC

Center 2.402 GHz 200 kHz/ Span 2 MHz

Comment ...

Date: 12.MAR.2014 15:29:13

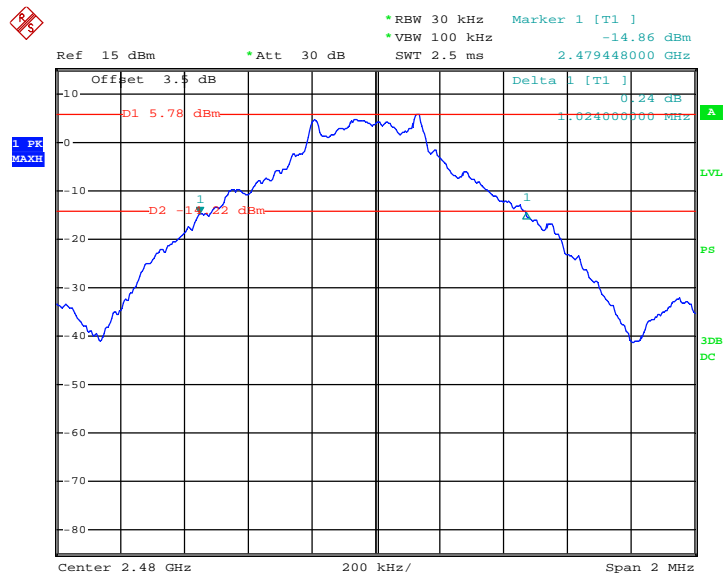
BDR (GFSK): Middle Channel



Comment ...

Date: 12.MAR.2014 15:36:18

BDR (GFSK): High Channel



Comment ...

Date: 12.MAR.2014 15:40:42

Ref 15 dBm * Att 30 dB * RBW 30 kHz Delta 1 [T1] 0.39 dB
 * VBW 100 kHz 1.292000000 MHz
 SWT 2.5 ms

Offset 3.5 dB

Marker 1 [T1] -17.07 dBm 2.401328000 GHz

D1 4.19 dBm

D2 -15.81 dBm

1. PK MAXH

Center 2.402 GHz 200 kHz/ Span 2 MHz

Date: 12.MAR.2014 15:51:55

Ref 15 dBm * Att 30 dB Delta 1 [T1] 0.03 dB
 * RBW 30 kHz * VBW 100 kHz SWT 2.5 ms 1.292000000 MHz

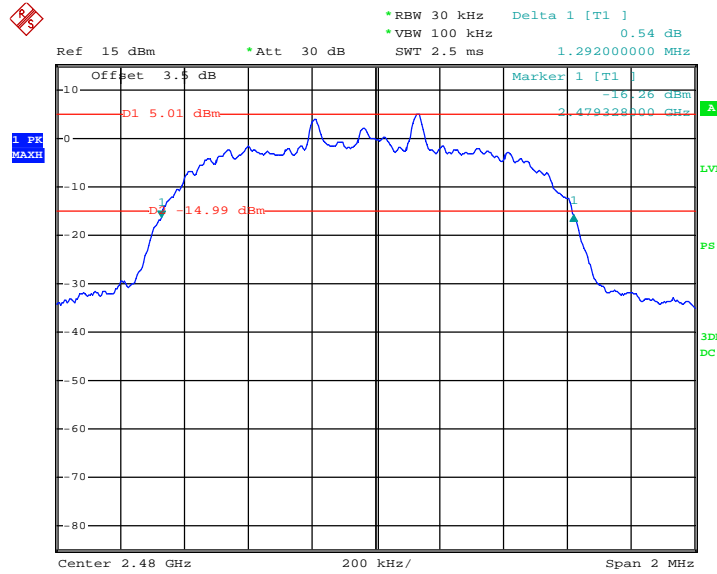
Offset 3.5 dB Marker 1 [T1] -16.30 dBm 2.440328000 GHz

D1 3.72 dBm D2 -16.28 dBm

Center 2.441 GHz 200 kHz/ Span 2 MHz

Date: 12.MAR.2014 15:48:50

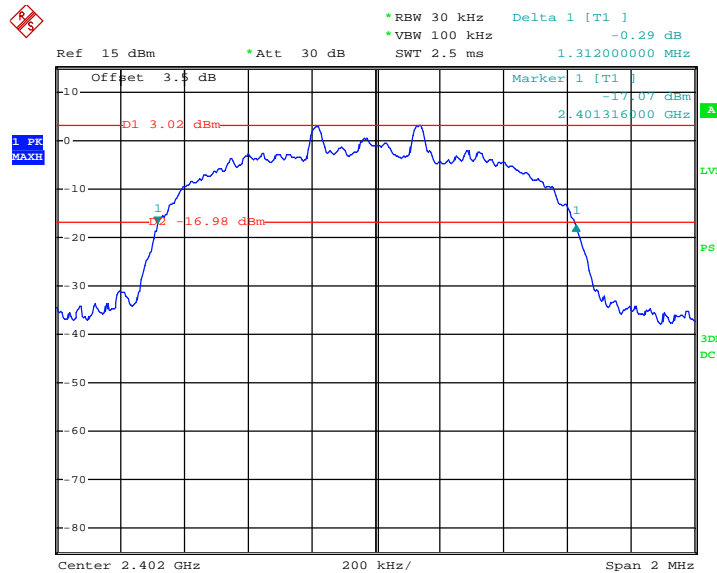
EDR ($\pi/4$ -DQPSK): High Channel



Comment ...

Date: 12.MAR.2014 15:45:14

EDR (8DPSK): Low Channel



Comment ...

Date: 12.MAR.2014 15:57:22

*RBW 30 kHz Delta 1 [T1] -0.12 dB
 *VBW 100 kHz
 SWT 2.5 ms 1.312000000 MHz

Ref 15 dBm *Att 30 dB
 Offset 3.5 dB

Marker 1 [T1] -16.67 dBm
 2.440316000 GHz

1 PK MAXH
 1 3.76 dBm
 2 -16.24 dBm

Center 2.441 GHz 200 kHz/
 Span 2 MHz

Date: 12.MAR.2014 15:59:56

Ref 15 dBm • Att 30 dB • RBW 30 kHz Delta 1 [T1] -0.28 dB
 • VBW 100 kHz SWT 2.5 ms 1.312000000 MHz

Offset 3.5 dB

Marker 1 [T1] -16.48 dBm 2.479316000 GHz

1 PR MAXH

1 -16.3 dBm

2 -37.7 dBm

Center 2.48 GHz 200 kHz/ Span 2 MHz

Date: 12.MAR.2014 16:02:13

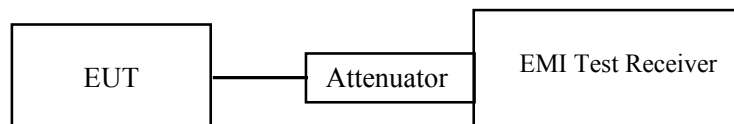
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

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
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2013-11-12	2014-11-12

* **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:	51 %
ATM Pressure:	101.0 kPa

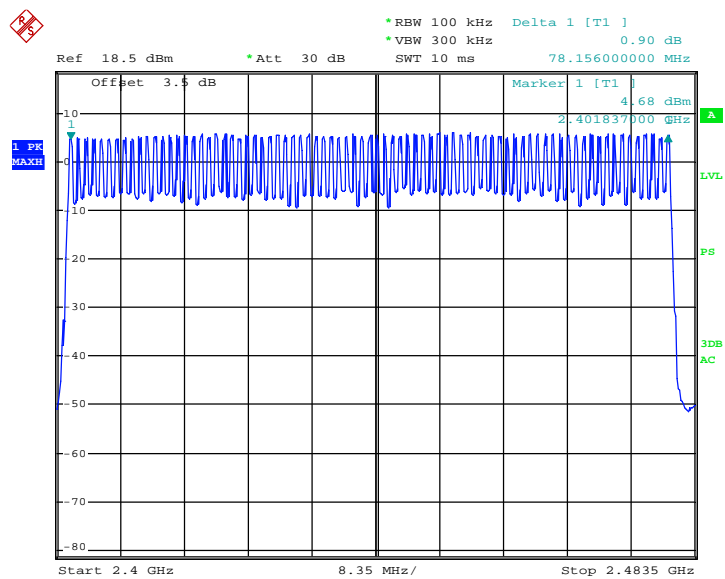
The testing was performed by David Lee on 2014-03-07.

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)	2400-2483.5	79	≥ 15
EDR ($\pi/4$ -DQPSK)	2400-2483.5	79	≥ 15
EDR (8DPSK)	2400-2483.5	79	≥ 15

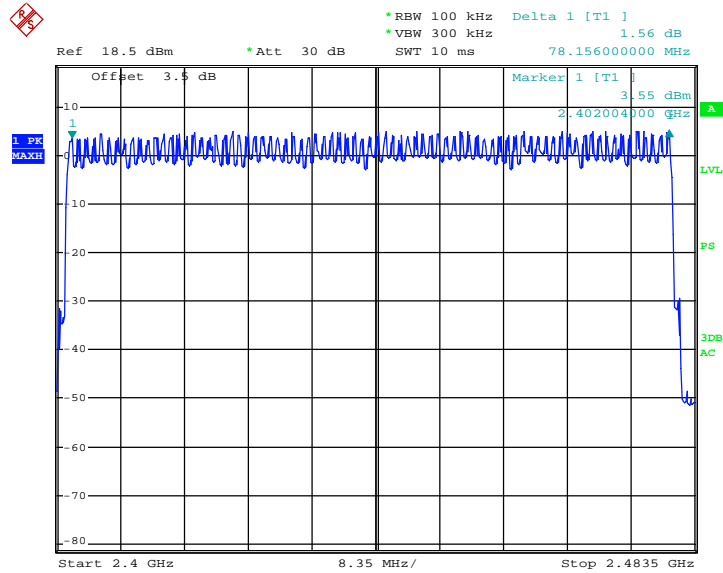
BDR (GFSK): Number of Hopping Channels



Comment ...

Date: 7.MAR.2014 16:47:15

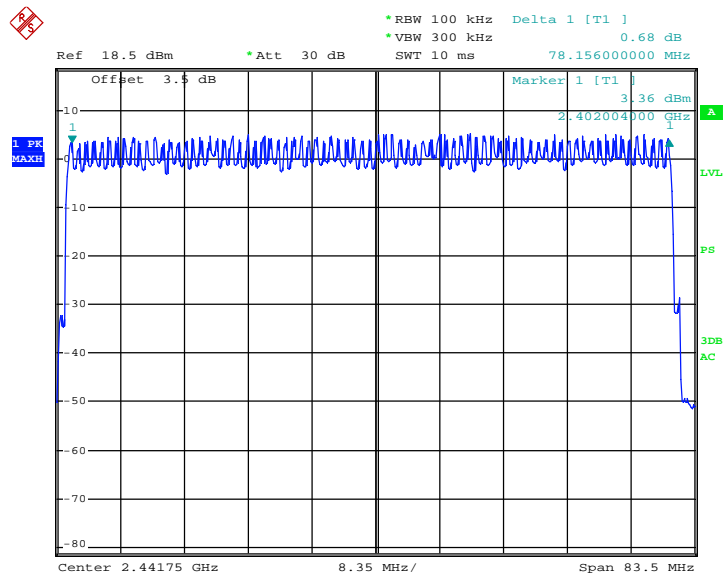
EDR ($\pi/4$ -DQPSK): Number of Hopping Channels



Comment ...

Date: 7.MAR.2014 16:52:34

EDR (8DPSK): Number of Hopping Channels



Comment ...

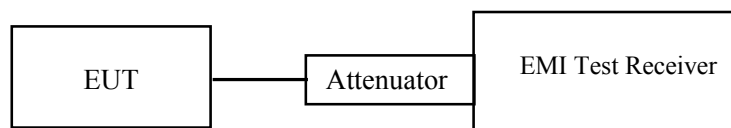
Date: 7.MAR.2014 17:03:22

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	EMI Test Receiver	ESCI	101120	2013-11-12	2014-11-12

* **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 ~ 25 °C
Relative Humidity:	49 ~ 56 %
ATM Pressure:	101.0 kPa

The testing was performed by David Lee from 2014-03-08 to 2014-03-12.

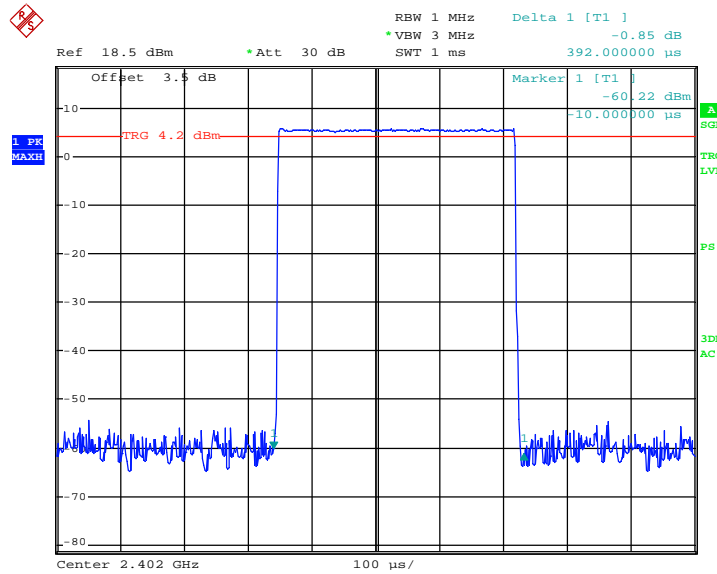
EUT operation mode: Transmitting

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	0.392	0.125	0.4	Pass
		Middle	0.392	0.125	0.4	Pass
		High	0.392	0.125	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.662	0.266	0.4	Pass
		Middle	1.662	0.266	0.4	Pass
		High	1.662	0.266	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.950	0.315	0.4	Pass
		Middle	2.950	0.315	0.4	Pass
		High	2.950	0.315	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	DH 1	Low	0.404	0.129	0.4	Pass
		Middle	0.404	0.129	0.4	Pass
		High	0.404	0.129	0.4	Pass
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.662	0.266	0.4	Pass
		Middle	1.662	0.266	0.4	Pass
		High	1.662	0.266	0.4	Pass
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.950	0.315	0.4	Pass
		Middle	2.950	0.315	0.4	Pass
		High	2.950	0.315	0.4	Pass
		Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR (8DPSK)	DH 1	Low	0.404	0.129	0.4	Pass
		Middle	0.404	0.129	0.4	Pass
		High	0.404	0.129	0.4	Pass
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.662	0.266	0.4	Pass
		Middle	1.662	0.266	0.4	Pass
		High	1.662	0.266	0.4	Pass
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.950	0.315	0.4	Pass
		Middle	2.950	0.315	0.4	Pass
		High	2.950	0.315	0.4	Pass
		Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				

BDR (GFSK):

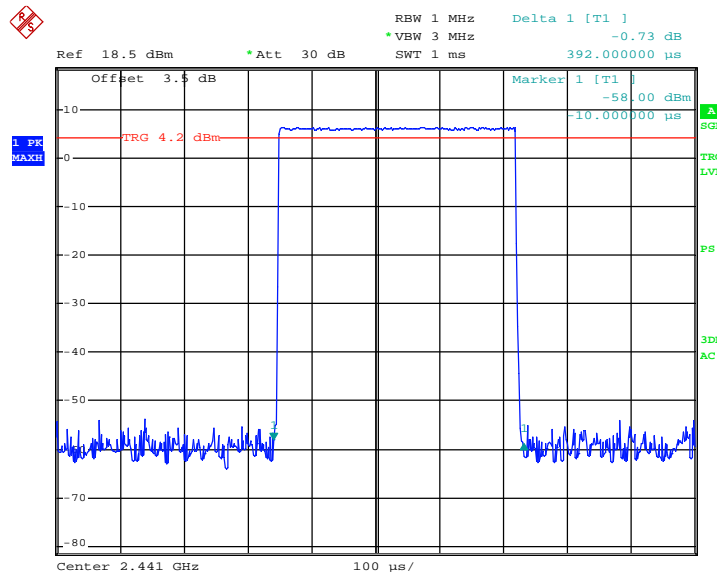
Pulse time, Low Channel, DH1



Comment ...

Date: 8.MAR.2014 10:07:48

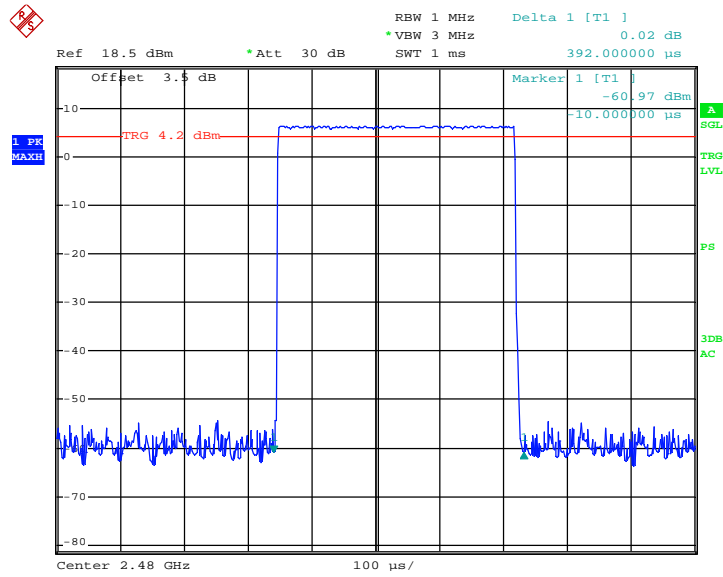
Pulse time, Middle Channel, DH1



Comment ...

Date: 8.MAR.2014 10:06:36

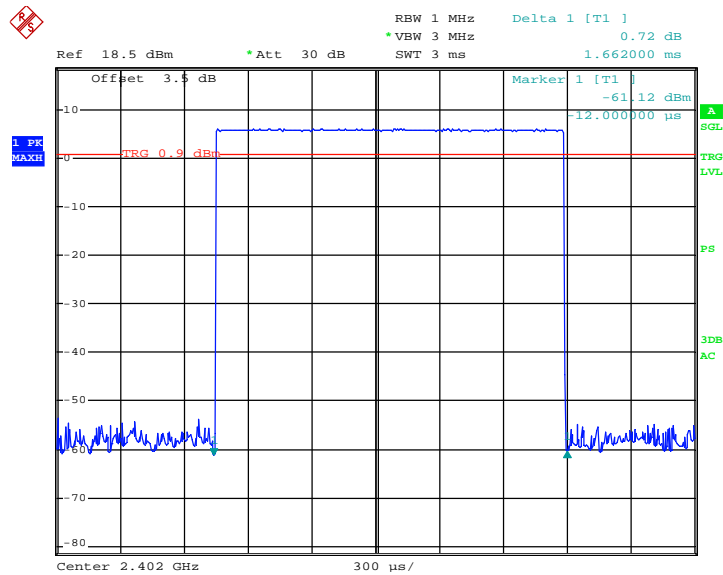
Pulse time, High Channel, DH1



Comment ...

Date: 8.MAR.2014 10:05:17

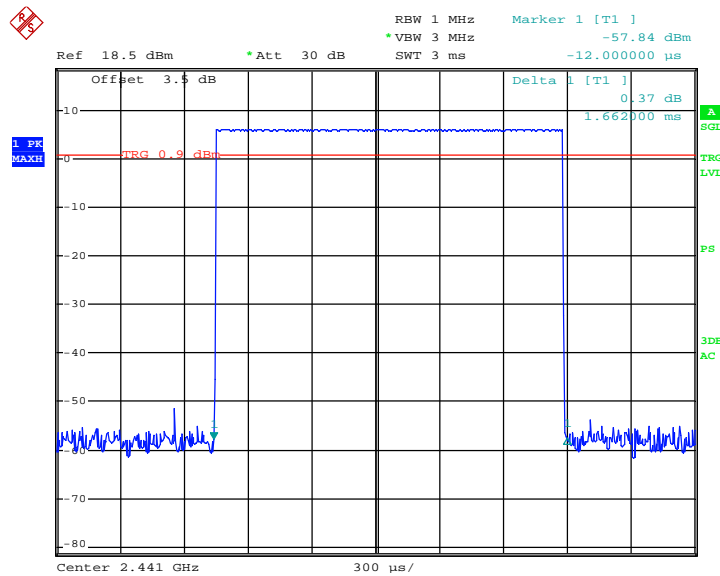
Pulse time, Low Channel, DH3



Comment ...

Date: 11.MAR.2014 16:46:17

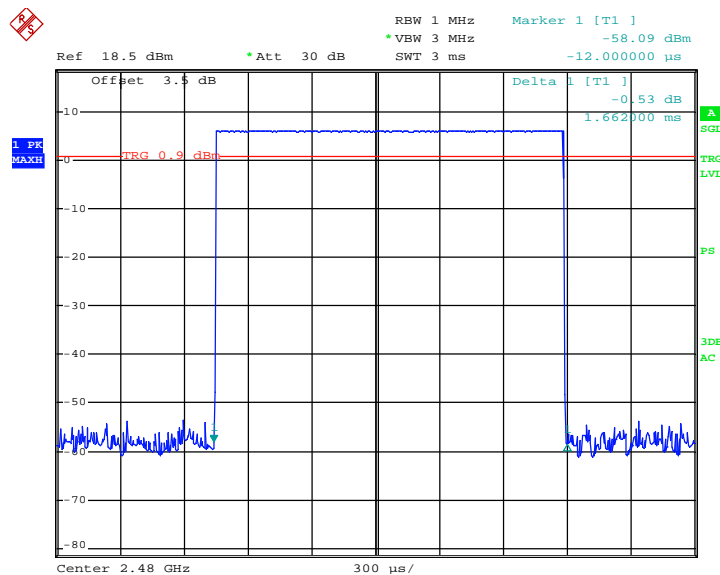
Pulse time, Middle Channel, DH3



Comment ...

Date: 8.MAR.2014 10:27:25

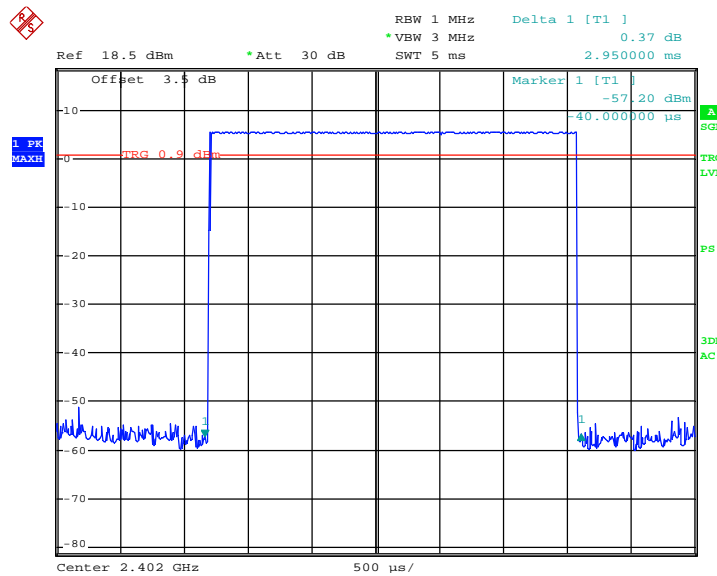
Pulse time, High Channel, DH3



Comment ...

Date: 8.MAR.2014 10:28:22

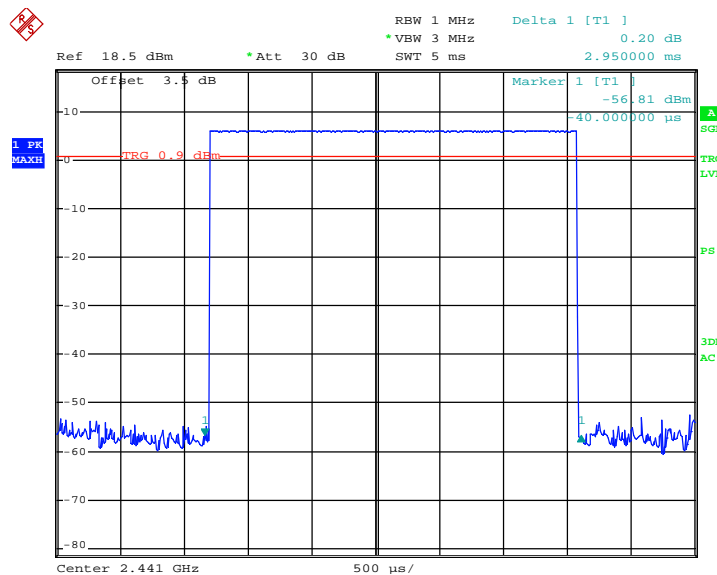
Pulse time, Low Channel, DH5



Comment ...

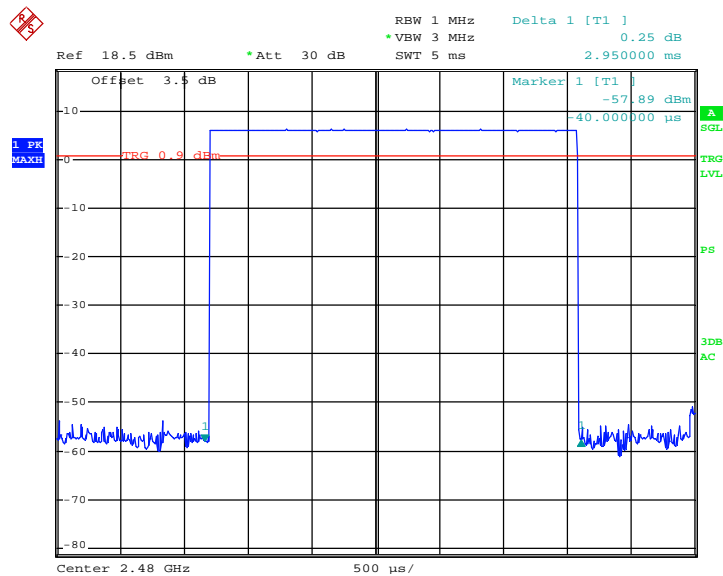
Date: 8.MAR.2014 10:35:43

Pulse time, Middle Channel, DH5



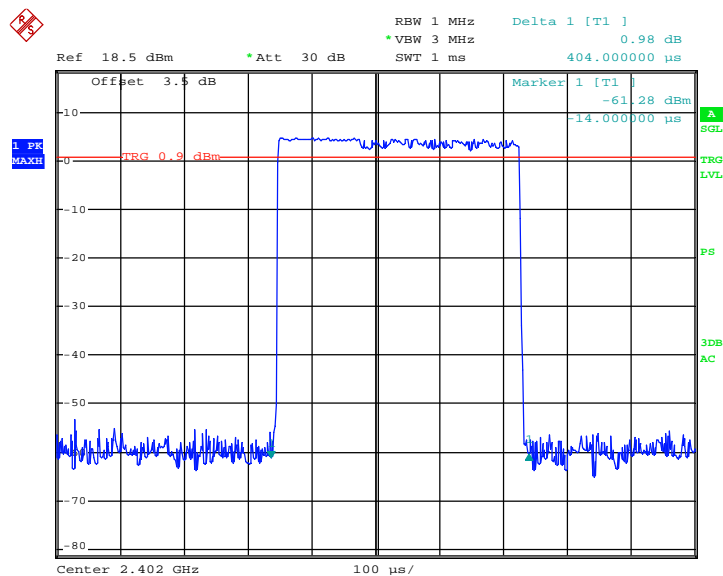
Comment ...

Date: 8.MAR.2014 10:35:16

Pulse time, High Channel, DH5

Comment ...

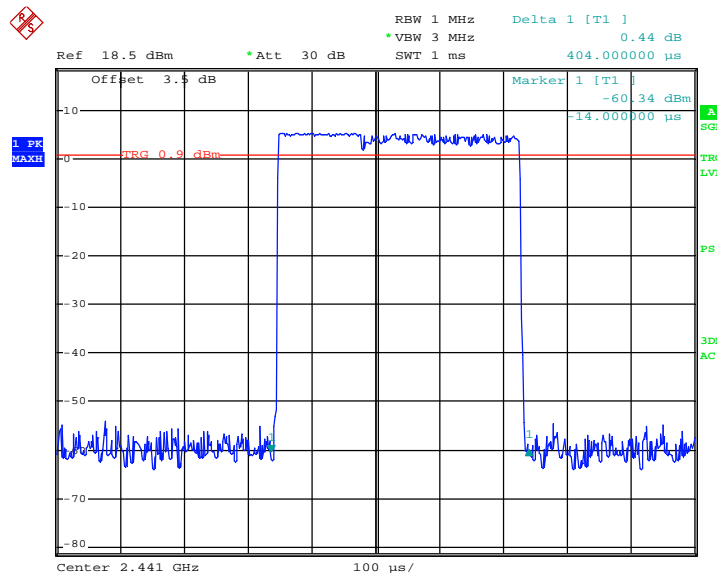
Date: 8,MAR.2014 10:34:40

EDR ($\pi/4$ -DQPSK):**Pulse time, Low Channel, 2DH1**

Comment ...

Date: 8,MAR.2014 10:16:39

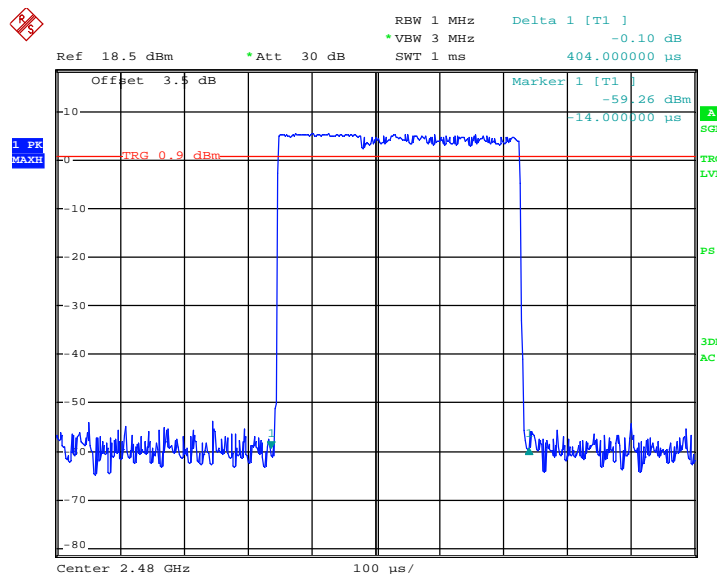
Pulse time, Middle Channel, 2DH1



Comment ...

Date: 8.MAR.2014 10:17:33

Pulse time, High Channel, 2DH1



Comment ...

Date: 8.MAR.2014 10:18:28

RBW 1 MHz
 VBW 3 MHz
 SWT 3 ms
 Marker 1 [T1]
 -57.90 dBm
 -12.000000 μ s

Ref 18.5 dBm
 Att 30 dB

Offset 3.5 dB
 Delta 1 [T1]
 -0.20 dB
 1.662000 ms

1 PK
 MAXH

TRG 0.2 dBm
 SGL
 LVL
 PS
 3DB
 AC

Center 2.402 GHz
 300 μ s/

Date: 8.MAR.2014 10:29:54

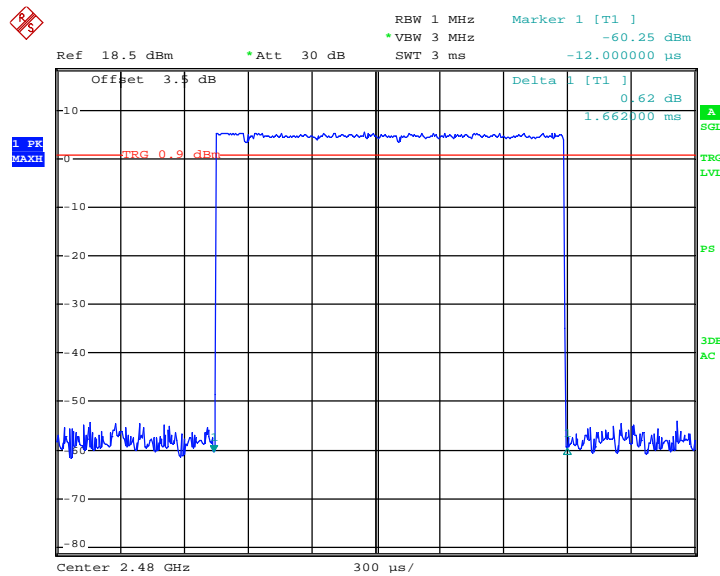
Ref 18.5 dBm * Att 30 dB RBW 1 MHz Marker 1 [T1] -58.53 dBm
 * VBW 3 MHz SWT 3 ms -12.000000 μs

Offset 3.5 dB Delta 1 [T1] 0.30 dB
 1.66200 ms

1 PK MAXH TRG 0.9 dBm SGL TRG LVL PS 3DB AC

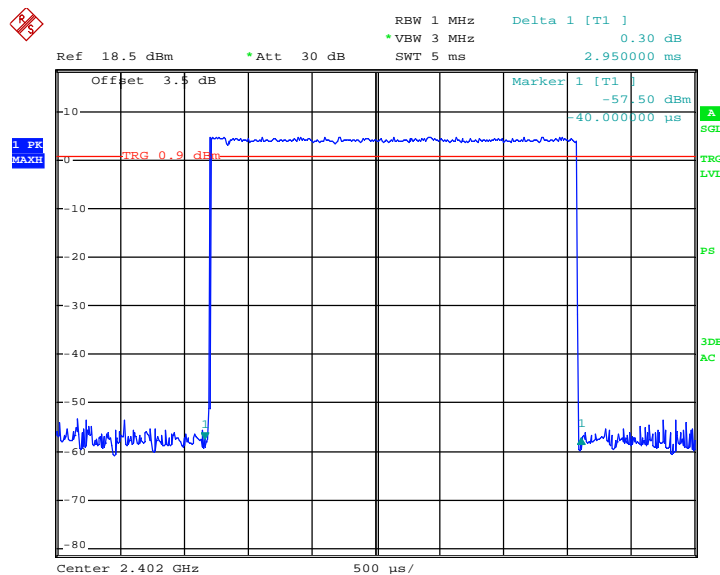
Center 2.441 GHz 300 μs/

Date: 8.MAR.2014 10:29:28

Pulse time, High Channel, 2DH3

Comment ...

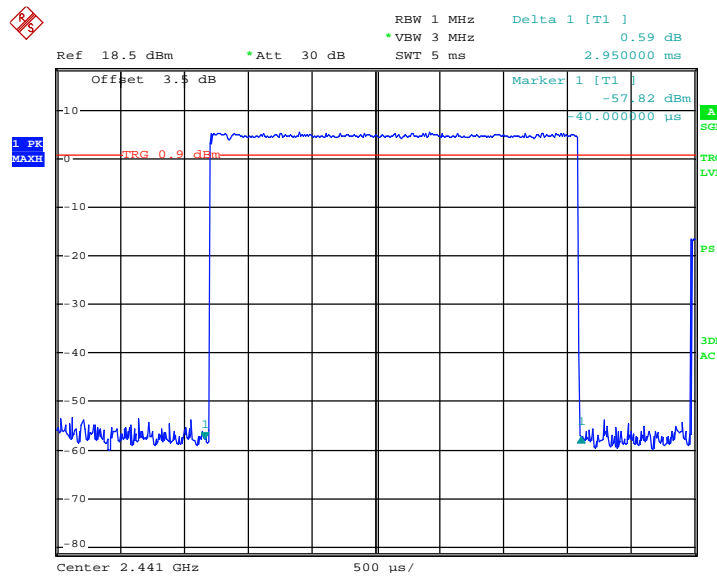
Date: 8.MAR.2014 10:28:56

Pulse time, Low Channel, 2DH5

Comment ...

Date: 8.MAR.2014 10:36:22

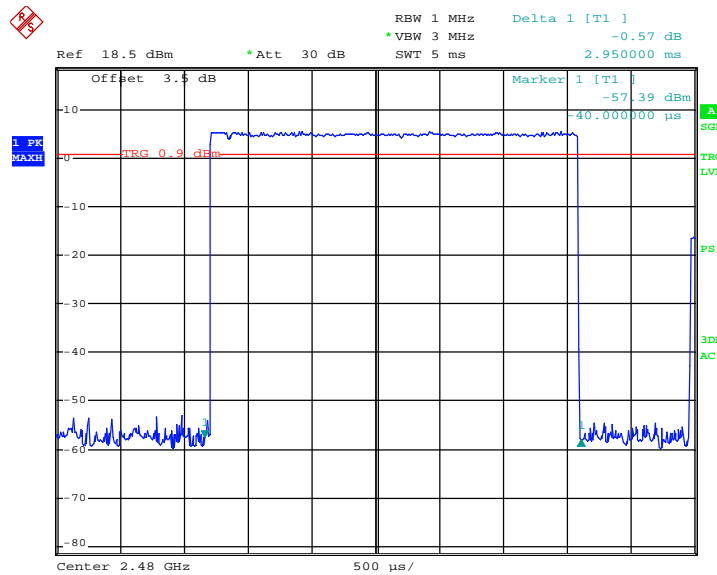
Pulse time, Middle Channel, 2DH5



Comment ...

Date: 8.MAR.2014 10:36:51

Pulse time, High Channel, 2DH5

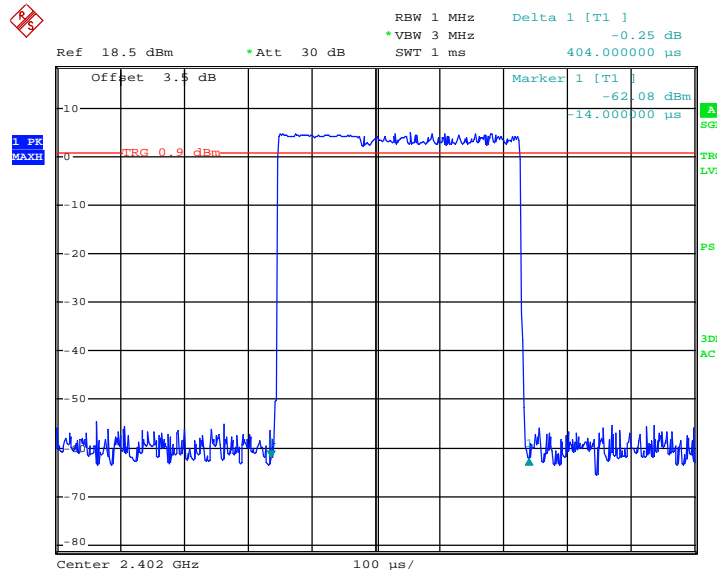


Comment ...

Date: 8.MAR.2014 10:37:16

EDR (8DPSK):

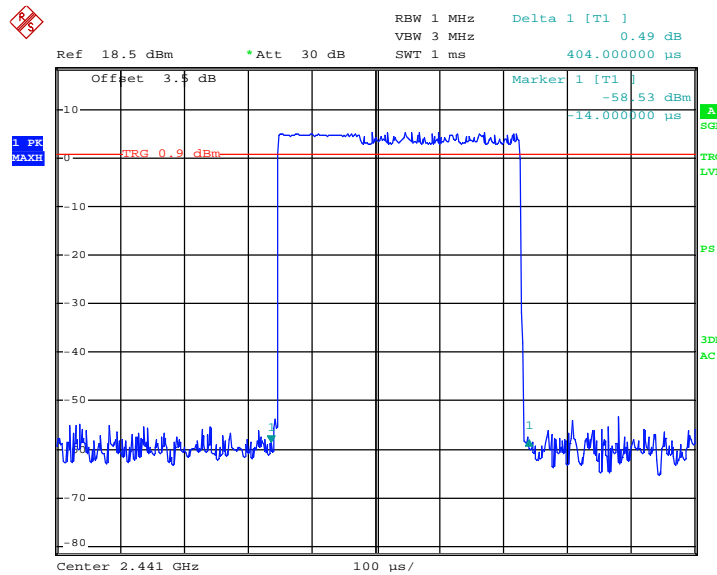
Pulse time, Low Channel, 3DH1



Comment ...

Date: 8.MAR.2014 10:21:03

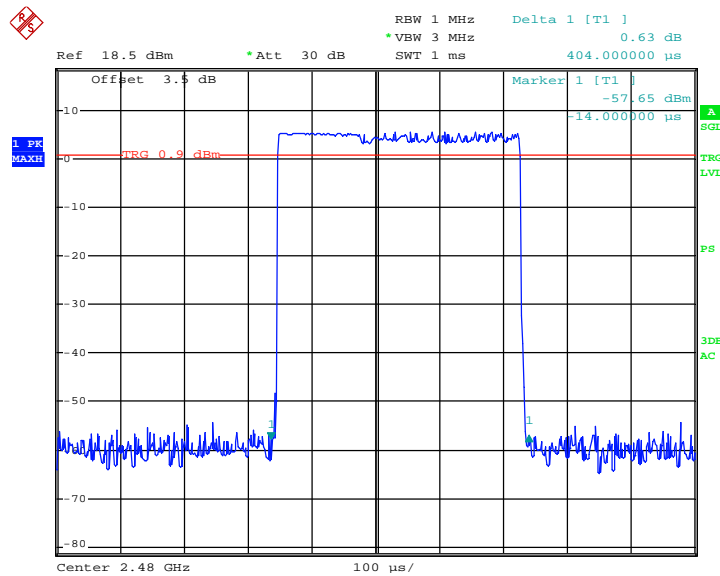
Pulse time, Middle Channel, 3DH1



Comment ...

Date: 12.MAR.2014 16:55:30

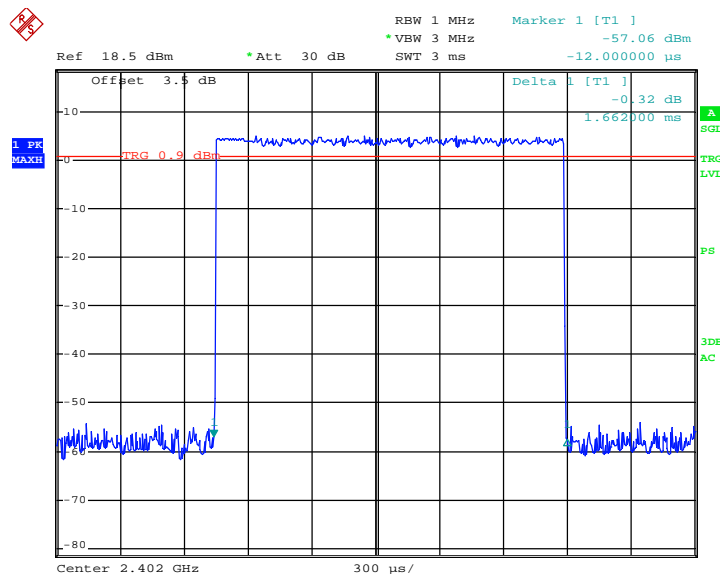
Pulse time, High Channel, 3DH1



Comment ...

Date: 8.MAR.2014 10:20:04

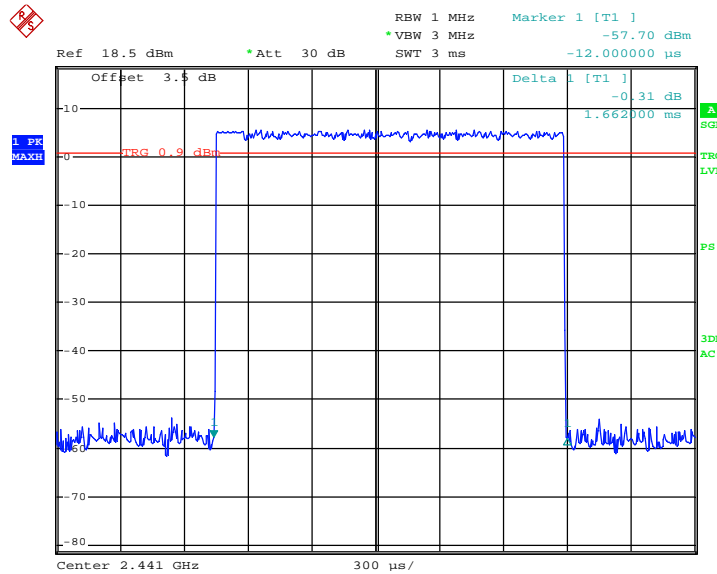
Pulse time, Low Channel, 3DH3



Comment ...

Date: 8.MAR.2014 10:31:34

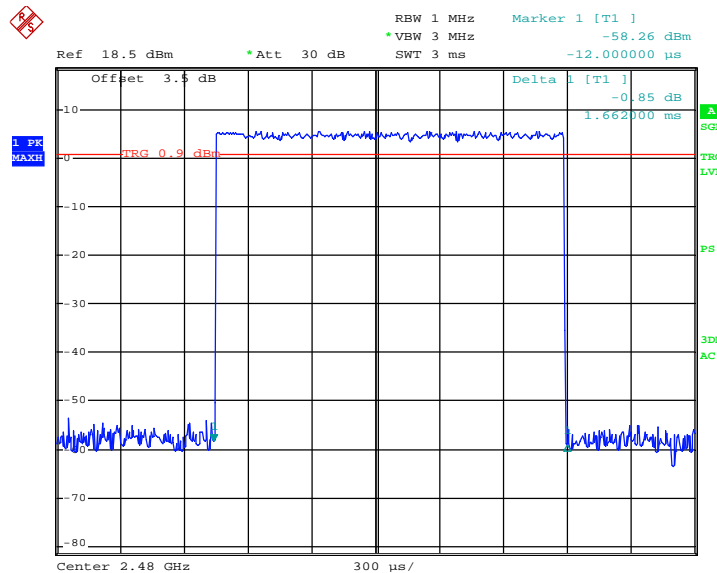
Pulse time, Middle Channel, 3DH3



Comment ...

Date: 8.MAR.2014 10:31:58

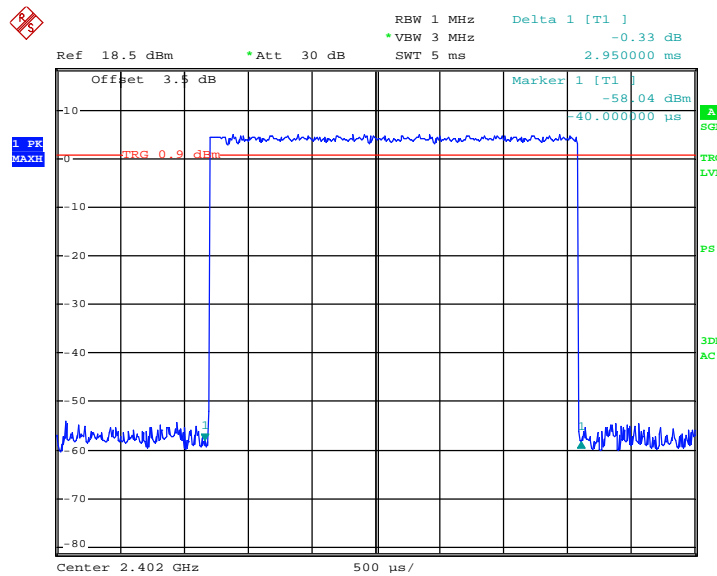
Pulse time, High Channel, 3DH3



Comment ...

Date: 8.MAR.2014 10:32:28

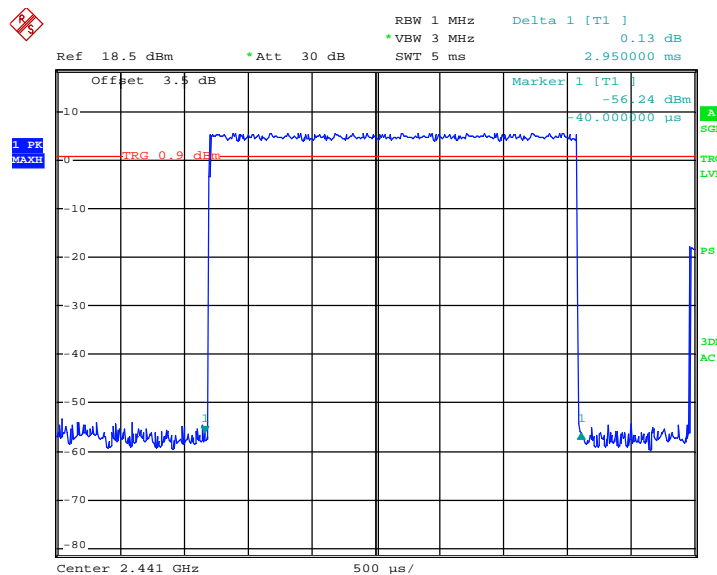
Pulse time, Low Channel, 3DH5



Comment ...

Date: 8.MAR.2014 10:38:51

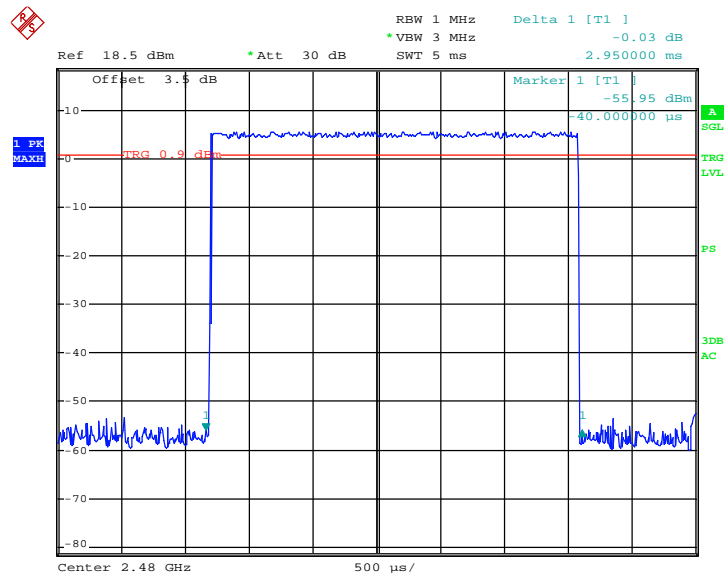
Pulse time, Middle Channel, 3DH5



Comment ...

Date: 8.MAR.2014 10:38:18

Pulse time, High Channel, 3DH5



Comment ...

Date: 8.MAR.2014 10:37:40

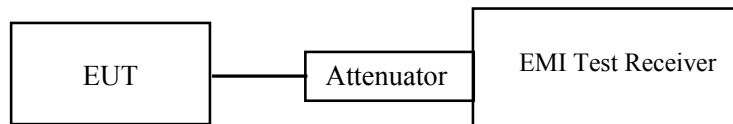
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

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 an EMI test receiver.
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	EMI Test Receiver	ESCI	101120	2013-11-12	2014-11-12

* **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

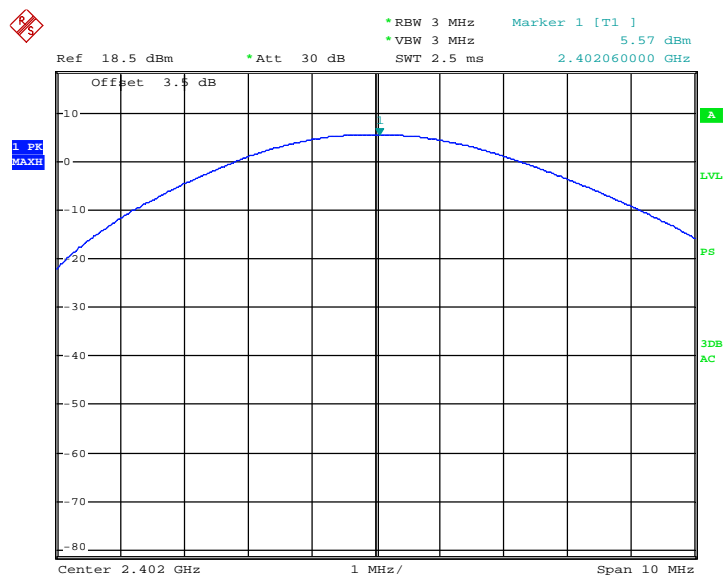
Temperature:	20 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by David Lee on 2014-03-07.

EUT operation mode: Transmitting

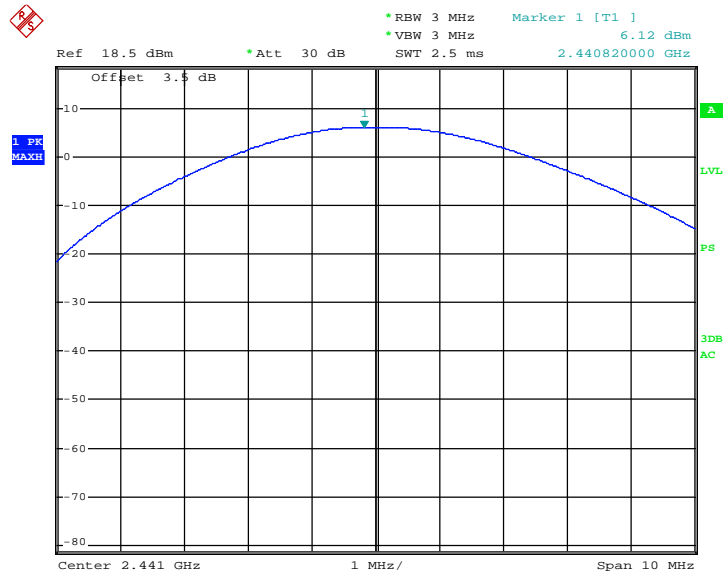
Test Result: Compliance. Please refer to following tables and plots

Mode	Channel	Frequency (MHz)	Conducted Output Power		Limit (mW)
			(dBm)	(mW)	
BDR (GFSK)	Low	2402	5.57	3.606	1000
	Middle	2441	6.12	4.093	1000
	High	2480	6.23	4.198	1000
EDR ($\pi/4$-DQPSK)	Low	2402	5.26	3.357	1000
	Middle	2441	5.81	3.811	1000
	High	2480	5.87	3.864	1000
EDR (8DPSK)	Low	2402	5.56	3.597	1000
	Middle	2441	6.08	4.055	1000
	High	2480	6.25	4.217	1000

BDR (GFSK): Low Channel

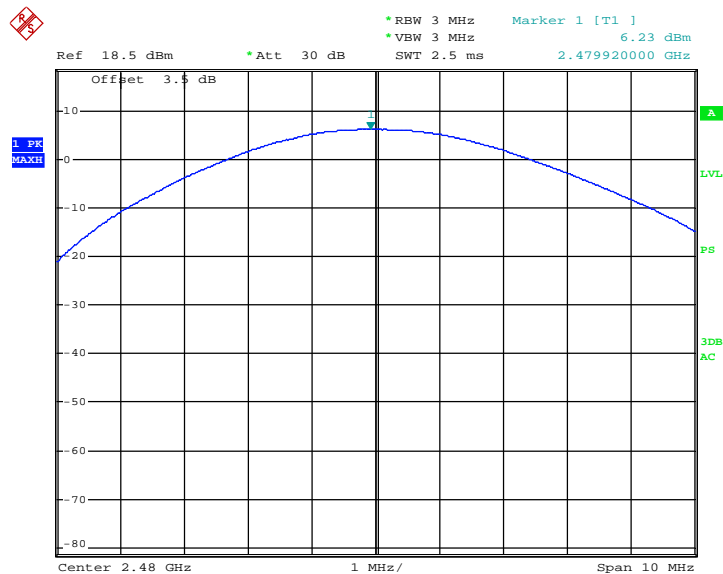
Comment ...

Date: 7.MAR.2014 16:39:39

BDR (GFSK): Middle Channel

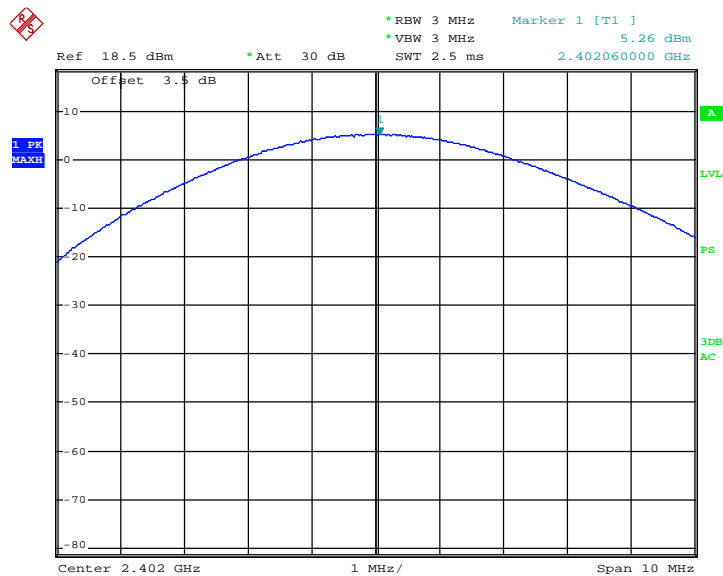
Comment ...

Date: 7.MAR.2014 16:38:57

BDR (GFSK): High Channel

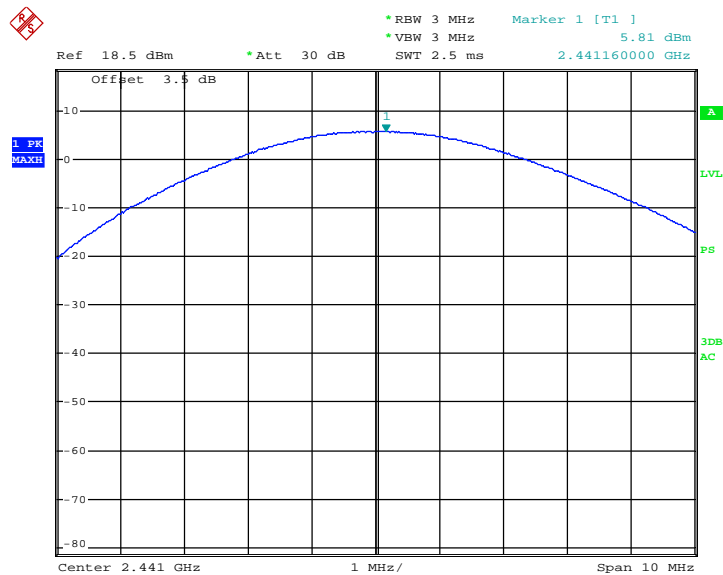
Comment ...

Date: 7.MAR.2014 16:38:19

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

Comment ...

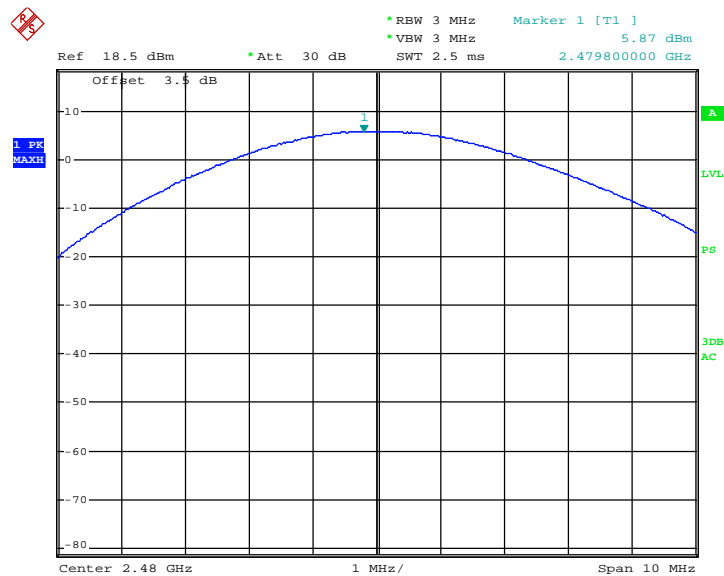
Date: 7.MAR.2014 16:36:19

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

Comment ...

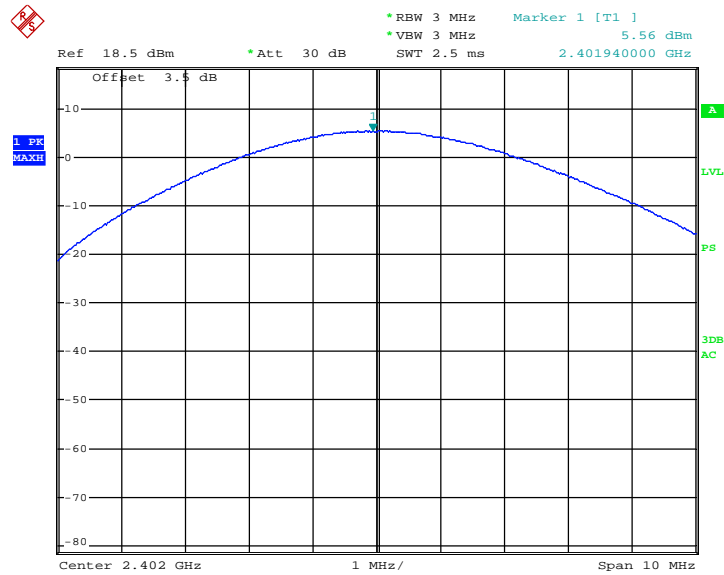
Date: 7.MAR.2014 16:37:10

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



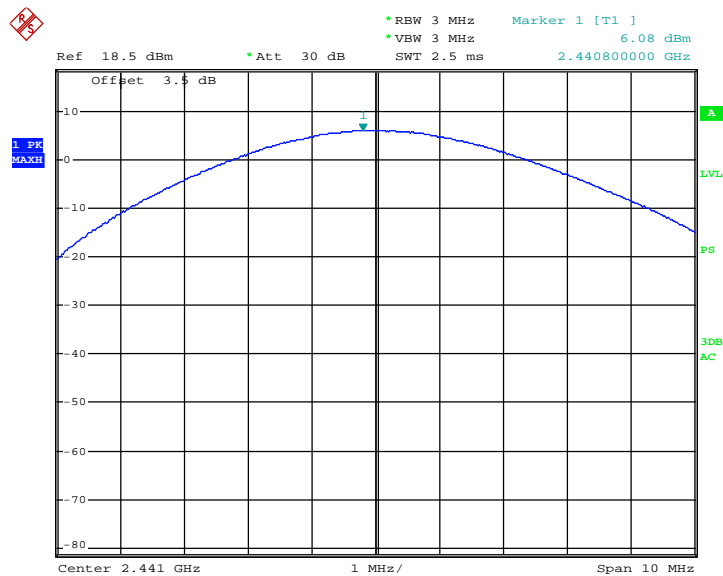
Comment ...
Date: 7.MAR.2014 16:37:47

EDR(8DPSK): Low Channel



Comment ...
Date: 7.MAR.2014 16:35:37

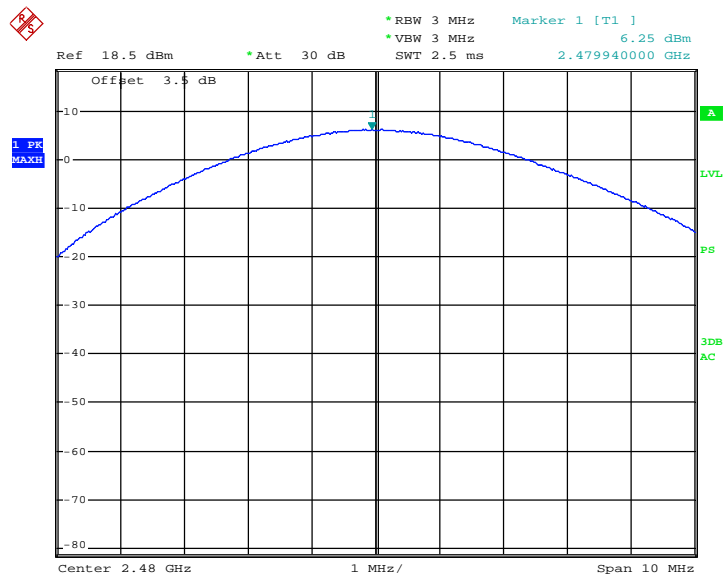
EDR(8DPSK): Middle Channel



Comment ...

Date: 7.MAR.2014 16:34:25

EDR(8DPSK): High Channel



Comment ...

Date: 7.MAR.2014 16:32:47

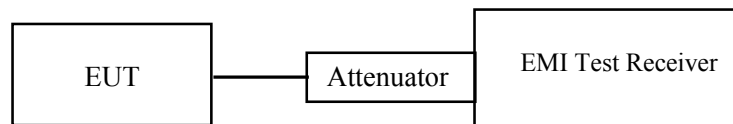
FCC §15.247(d) - BAND EDGES TESTING

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	EMI Test Receiver	ESCI	101120	2013-11-12	2014-11-12

* **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).

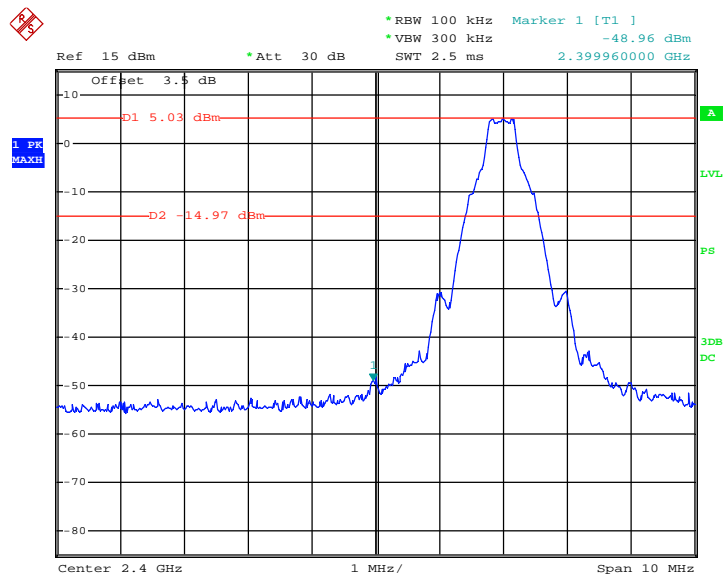
Test Data**Environmental Conditions**

Temperature:	20 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by David Lee on 2014-03-07 and 2014-03-12.

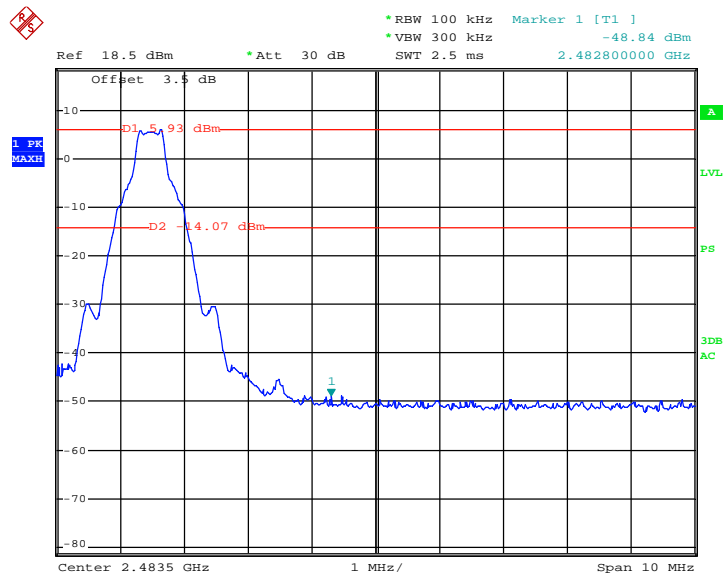
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following plots.

BDR (GFSK): Band Edge-Left Side

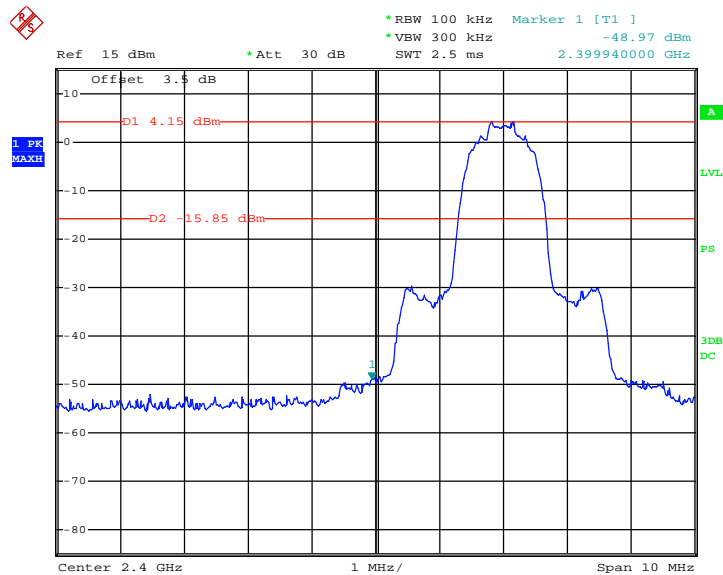
Comment ...

Date: 12.MAR.2014 16:25:44

BDR (GFSK): Band Edge-Right Side

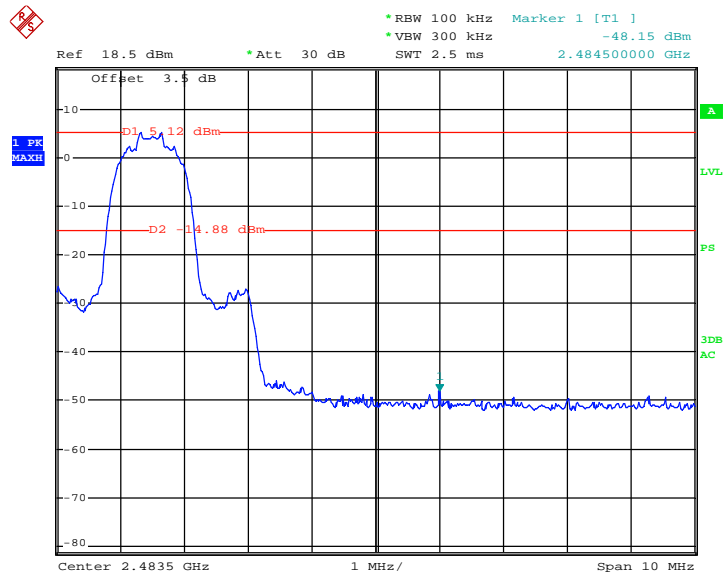
Comment ...

Date: 7.MAR.2014 15:33:10

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

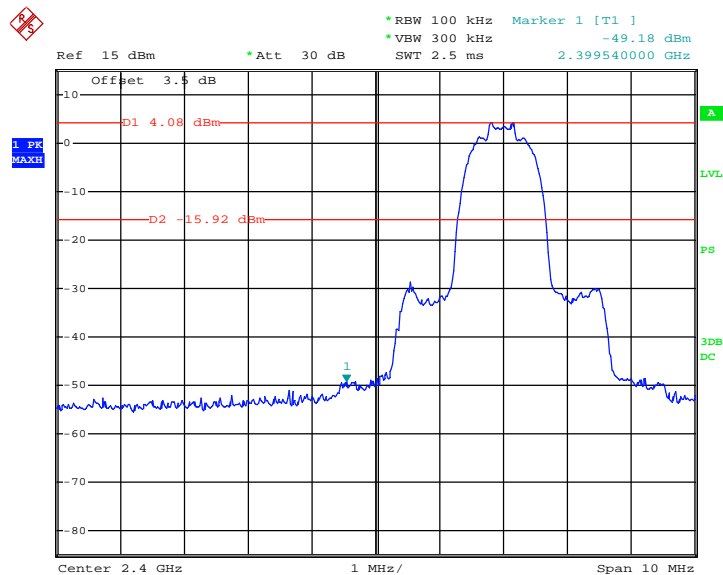
Comment ...

Date: 12.MAR.2014 16:19:49

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

Comment ...

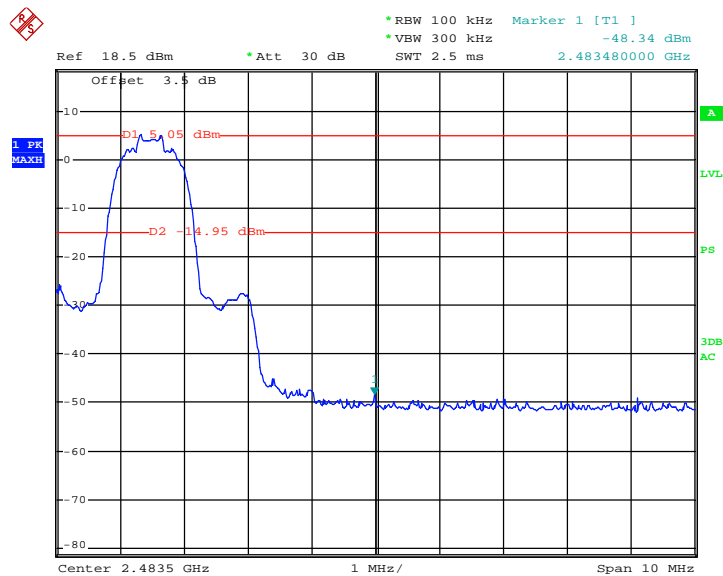
Date: 7.MAR.2014 15:29:04

EDR (8DPSK): Band Edge-Left Side

Comment ...

Date: 12.MAR.2014 16:23:41

BDR (8DPSK): Band Edge-Right Side



Comment ...

Date: 7.MAR.2014 15:25:29

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