

FCC PART 15.247 TEST REPORT

For

Conplex International Limited

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FCC ID: 2ABGBQ5000

Report Type: **Product Type:** Original Report 3G Smart Phone Simon wang **Test Engineer:** Simon Wang Report Number: RSZ141224016-00B **Report Date:** 2015-01-12 Jimmy xiao Jimmy Xiao Reviewed By: RF Engineer **Prepared By:** 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 www.baclcorp.com.cn

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 *Conplex International Limited*'s product, model number: *Q5000 (FCC ID: 2ABGBQ5000)* or the "EUT" in this report was a *3G Smart Phone*, which was measured approximately: 14.29 cm (L) x 7.27 cm (W) x 0.94 cm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC5.0 V from adapter.

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Adapter Information:

Model: JHD-AP006U-050100BB-2 Input: AC100-240V, 50/60Hz, max 0.2A

Output: DC 5.0V, 1000mA

*All measurement and test data in this report was gathered from production sample serial number: 1412247 (Assigned by Shenzhen BACL). The EUT supplied by the applicant was received on 2014-12-24.

Objective

This test report is prepared on behalf of *Conplex International Limited* 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 22H&24E PCE, Part 15.247 DTS and Part 15B JBP submissions with FCC ID: 2ABGBQ5000

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.

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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.

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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.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

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
TESCOM	Bluetooth Tester	TC-3000B	3000B630010

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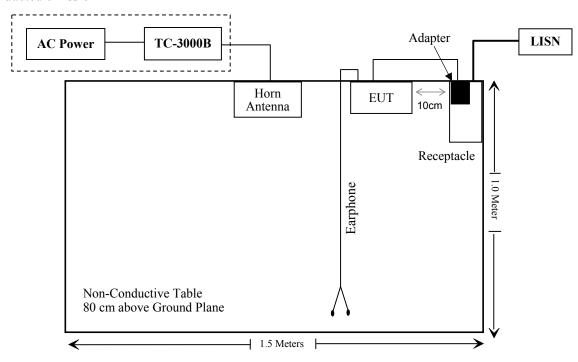
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.1	EUT	Adapter

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Block Diagram of Test Setup

For conducted emission



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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

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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.

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The SAR data please refer to the SAR report, report No.: RSZ141224017-20.

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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.

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Antenna Connector Construction

The EUT has one internal antenna arrangement for bluetooth, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Measurement Uncertainty

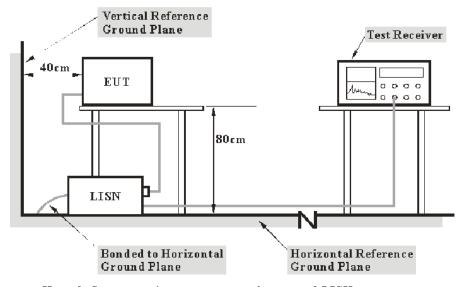
Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

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.

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Port	Expanded 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 spacing between the peripherals was 10 cm.

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

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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

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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 final 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	2014-06-17	2015-06-17
Rohde & Schwarz	LISN	ESH2-Z5	892107/021	2014-08-22	2015-08-22
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2014-10-15	2015-10-15
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 VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + 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:

Margin = Limit – Corrected Amplitude

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Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.207</u>, the worst margin reading as below:

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9.3 dB at 17.259370 MHz in the Line conducted mode

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

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ 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:	23 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2014-12-26.

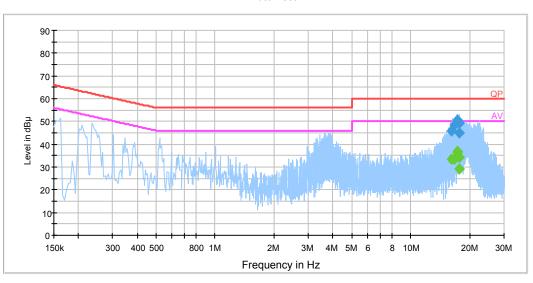
EUT operation mode: Transmitting/Charging

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AC 120V/60 Hz, Line

EMI Auto Test L

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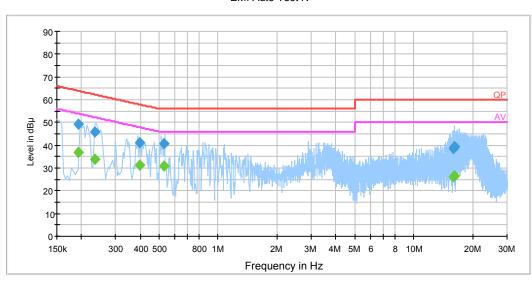
Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
16.210250	45.7	19.8	60.0	14.3	QP
16.210250	33.6	19.8	50.0	16.4	Ave.
16.644490	48.5	19.8	60.0	11.5	QP
16.644490	33.6	19.8	50.0	16.4	Ave.
17.258530	50.2	19.7	60.0	9.8	QP
17.258530	36.3	19.7	50.0	13.7	Ave.
17.259370	50.7	19.7	60.0	9.3	QP
17.259370	36.9	19.7	50.0	13.1	Ave.
17.613370	45.1	19.7	60.0	14.9	QP
17.613370	29.1	19.7	50.0	20.9	Ave.
17.642270	49.5	19.7	60.0	10.5	QP
17.642270	34.4	19.7	50.0	15.6	Ave.

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AC 120V/60 Hz, Neutral

EMI Auto Test N

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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.193500	49.5	19.3	63.9	14.4	QP
0.193500	37.0	19.3	53.9	16.9	Ave.
0.233500	45.8	19.2	62.3	16.5	QP
0.233500	33.9	19.2	52.3	18.4	Ave.
0.395850	41.0	19.2	57.9	16.9	QP
0.395850	31.2	19.2	47.9	16.7	Ave.
0.529990	40.8	19.2	56.0	15.2	QP
0.529990	30.8	19.2	46.0	15.2	Ave.
15.972850	38.4	19.7	60.0	21.6	QP
15.972850	26.0	19.7	50.0	24.0	Ave.
16.222550	39.6	19.7	60.0	20.4	QP
16.222550	26.7	19.7	50.0	23.3	Ave.

Note:

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
 3) Margin = Limit Corrected Amplitude

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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.

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Based on CISPR 16-4-2:2011, the expended 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.

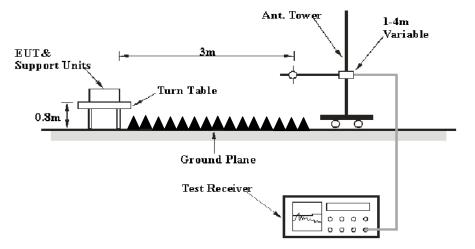
EUT Setup

Below 1 GHz:



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Above 1GHz:



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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.

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

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	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
AUUVE I GHZ	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.

All final 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.

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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:

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

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

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
НР	Amplifier	HP8447E	1937A01046	2014-05-06	2015-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2014-11-03	2015-11-03
Sunol Sciences	Broadband Antenna	ЈВ3	A111513	2014-06-18	2017-06-17
Mini	Amplifier	ZVA-183-S+	5969001149	2014-04-23	2015-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
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
TDK	Chamber	Chamber A	2#	2012-10-15	2015-10-15
TDK	Chamber	Chamber B	1#	2014-07-22	2015-07-22
DUCOMMUN	Pre-amplifier	ALN- 22093530-01	991373-01	2014-08-03	2015-08-03
R&S	Auto test Software	EMC32	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 <u>FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.</u>

5.39 dB at 9764.00 MHz in the Horizontal polarization for Middle Channel

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

$$L_{\rm m} ++ U_{(L{\rm m})} \le L_{\rm lim} ++ U_{\rm cispr}$$

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

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Test Data

Environmental Conditions

Temperature:	21 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2014-12-29.

EUT operation mode: Transmitting

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

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Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Low Channel (2402 MHz)								
250.16	43.54	QP	89	1.1	V	-13.7	29.84	46	16.16
2402.00	89.88	PK	54	2.4	Н	4.27	94.15	/	/
2402.00	77.31	Ave.	54	2.4	Н	4.27	81.58	/	/
2402.00	88.48	PK	142	2.2	V	4.17	92.65	/	/
2402.00	76.50	Ave.	142	2.2	V	4.17	80.67	/	/
2357.13	35.17	PK	206	2.3	Н	4.27	39.44	74	34.56
2357.13	20.52	Ave.	206	2.3	Н	4.27	24.79	54	29.21
2499.14	35.85	PK	159	2.0	Н	7.99	43.84	74	30.16
2499.14	20.52	Ave.	159	2.0	Н	7.99	28.51	54	25.49
3602.76	46.97	PK	132	1.9	Н	11.84	58.81	74	15.19
3602.76	32.82	Ave.	132	1.9	Н	11.84	44.66	54	9.34
4804.00	39.16	PK	236	1.2	Н	20.31	59.47	74	14.53
4804.00	21.57	Ave.	236	1.2	Н	20.31	41.88	54	12.12
7206.00	36.66	PK	352	1.5	V	22.28	58.94	74	15.06
7206.00	20.02	Ave.	352	1.5	V	22.28	42.30	54	11.70
9608.00	35.62	PK	191	1.0	Н	27.80	63.42	74	10.58
9608.00	20.37	Ave.	191	1.0	Н	27.80	48.17	54	5.83

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Frequency	R	eceiver	Turntable	Rx An	itenna		Corrected	15.247	C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)		Margin (dB)
		•	Middle C	hannel	(2441 N	MHz)			
250.16	43.41	QP	101	1.2	V	-13.7	29.71	46	16.29
2441.00	89.93	PK	152	2.0	Н	4.27	94.20	/	/
2441.00	78.01	Ave.	152	2.0	Н	4.27	82.28	/	/
2441.00	88.45	PK	78	1.9	V	4.17	92.62	/	/
2441.00	76.42	Ave.	78	1.9	V	4.17	80.59	/	/
2320.74	35.23	PK	319	1.3	Н	3.93	39.16	74	34.84
2320.74	20.52	Ave.	319	1.3	Н	3.93	24.45	54	29.55
2488.29	35.57	PK	210	2.2	Н	7.99	43.56	74	30.44
2488.29	20.52	Ave.	210	2.2	Н	7.99	28.51	54	25.49
3661.41	40.24	PK	164	2.1	Н	11.96	52.20	74	21.80
3661.41	25.52	Ave.	164	2.1	Н	11.96	37.48	54	16.52
4882.00	40.33	PK	65	2.1	Н	19.71	60.04	74	13.96
4882.00	21.69	Ave.	65	2.1	Н	19.71	41.40	54	12.60
7323.00	36.59	PK	194	1.9	V	22.60	59.19	74	14.81
7323.00	20.66	Ave.	194	1.9	V	22.60	43.26	54	10.74
9764.00	34.12	PK	81	2.4	Н	28.66	62.78	74	11.22
9764.00	19.95	Ave.	81	2.4	Н	28.66	48.61	54	5.39
		1	High Ch	nannel (2480 M	Hz)	I	l l	
250.16	43.25	QP	63	1.1	V	-13.7	29.55	46	16.45
2480.00	90.88	PK	101	1.7	Н	7.99	98.87	/	/
2480.00	78.20	Ave.	101	1.7	Н	7.99	86.19	/	/
2480.00	88.32	PK	102	2.3	V	7.59	95.91	/	/
2480.00	76.21	Ave.	102	2.3	V	7.59	83.80	/	/
2353.29	36.01	PK	242	2.2	Н	4.27	40.28	74	33.72
2353.29	20.52	Ave.	242	2.2	Н	4.27	24.79	54	29.21
2483.50	42.92	PK	202	1.5	Н	7.99	50.91	74	23.09
2483.50	28.67	Ave.	202	1.5	Н	7.99	36.66	54	17.34
3720.00	38.14	PK	163	1.6	Н	11.96	50.10	74	23.90
3720.00	23.04	Ave.	163	1.6	Н	11.96	35.00	54	19.00
4960.00	40.26	PK	84	2.0	Н	22.21	62.47	74	11.53
4960.00	21.46	Ave.	84	2.0	Н	22.21	43.67	54	10.33
7440.00	36.29	PK	57	2.5	V	21.54	57.83	74	16.17
7440.00	20.86	Ave.	57	2.5	V	21.54	42.40	54	11.60
9920.00	34.38	PK	37	2.0	V	28.86	63.24	74	10.76
9920.00	19.31	Ave.	37	2.0	V	28.86	48.17	54	5.83

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading Margin = Limit - Corrected. Amplitude

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

Applicable Standard

Frequency hopping systems shall have hoping channel carrier frequencies separated by a minimum of 25 kHz or the 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.

Report No.: RSZ141224016-00B

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	2014-11-03	2015-11-03

^{*} 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:	21 ℃	
Relative Humidity:	50 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Simon Wang on 2014-12-28.

EUT operation mode: Transmitting

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

FCC Part 15.247 Page 21 of 62

Note: Limit = 20 dB bandwidth *2/3

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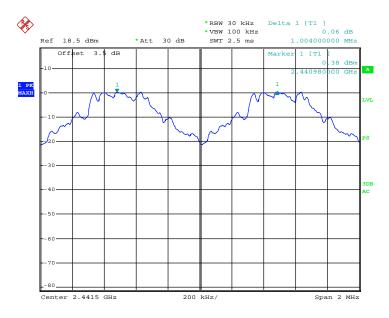
BDR (GFSK): Low Channel

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:29:26

BDR (GFSK): Middle Channel

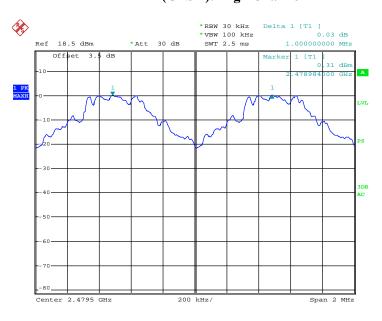


Date: 28.DEC.2014 14:31:32

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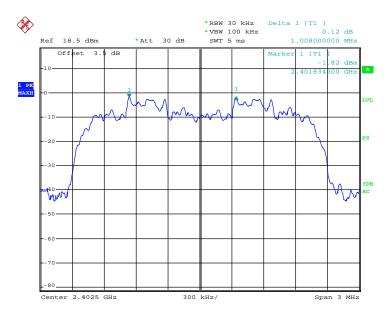
BDR (GFSK): High Channel

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:32:40

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

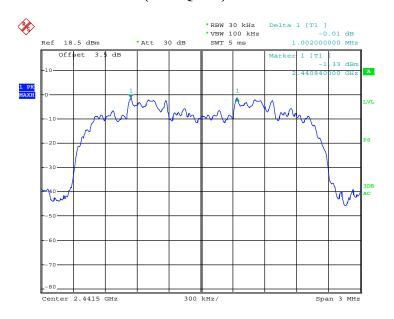


EUT
Date: 28.DEC.2014 14:40:35

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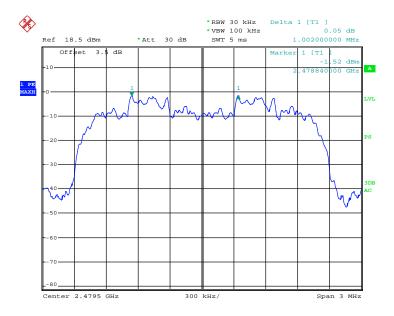
EDR (π/4-DQPSK): Middle Channel

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:36:01

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

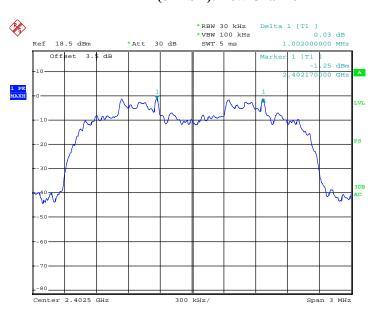


Date: 28.DEC.2014 14:34:05

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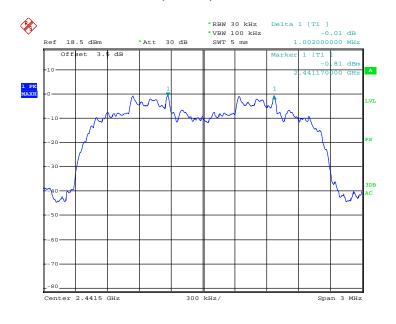
EDR (8DPSK): Low Channel

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:45:20

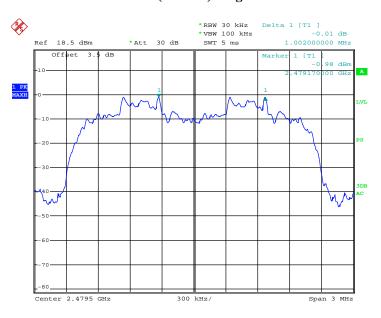
EDR (8DPSK): Middle Channel



EUT
Date: 28.DEC.2014 14:43:52

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EDR (8DPSK): High Channel



EUT
Date: 28.DEC.2014 14:42:18

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FCC $\S15.247(a)$ (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.

Report No.: RSZ141224016-00B

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	2014-11-03	2015-11-03

^{*} 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:	21 ℃	
Relative Humidity:	50 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Simon Wang on 2014-12-28.

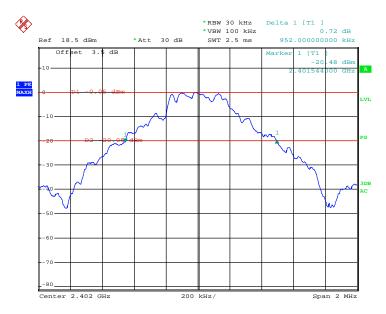
EUT operation mode: Transmitting

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

FCC Part 15.247 Page 28 of 62

Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
	Low	2402	0.952
BDR (GFSK)	Middle	2441	0.952
(31312)	High	2480	0.952
	Low	2402	1.240
EDR (π/4-DQPSK)	Middle	2441	1.300
(10,112,413,12)	High	2480	1.300
	Low	2402	1.264
EDR (8DPSK)	Middle	2441	1.264
(= 1.622)	High	2480	1.268

BDR (GFSK): Low Channel



EUT
Date: 28.DEC.2014 14:28:18

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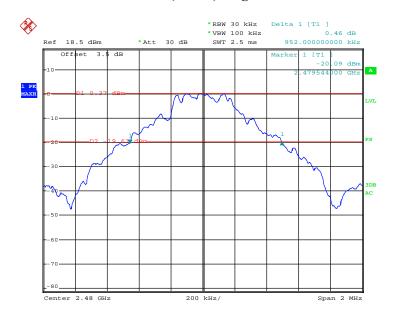
BDR (GFSK): Middle Channel

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:27:10

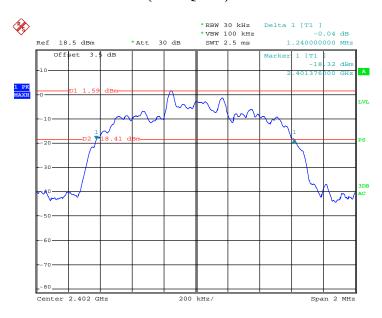
BDR (GFSK): High Channel



EUT
Date: 28.DEC.2014 14:25:28

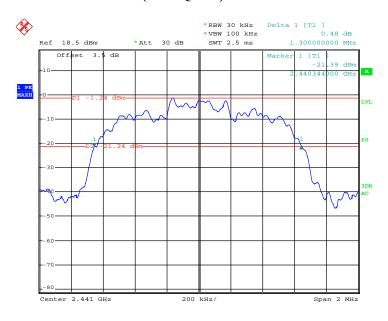
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EDR ($\pi/4$ -DQPSK): Low Channel



EUT
Date: 28.DEC.2014 14:22:53

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

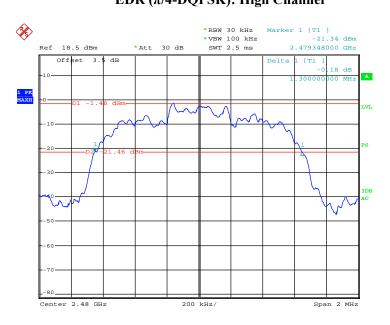


EUT
Date: 28.DEC.2014 14:20:58

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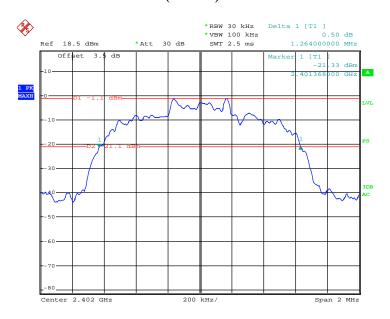
EDR (π/4-DQPSK): High Channel

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:19:09

EDR (8DPSK): Low Channel

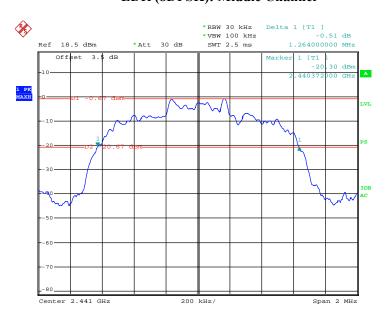


EUT
Date: 28.DEC.2014 14:17:47

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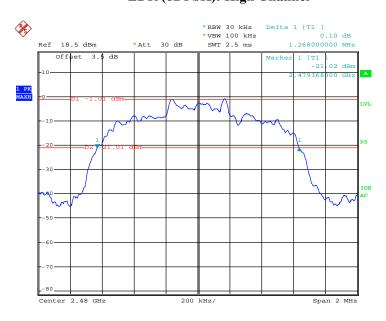
EDR (8DPSK): Middle Channel

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:16:29

EDR (8DPSK): High Channel



EUT
Date: 28.DEC.2014 14:15:03

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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.

Report No.: RSZ141224016-00B

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	2014-11-03	2015-11-03

^{*} 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:	21 ℃		
Relative Humidity:	50 %		
ATM Pressure:	101.0 kPa		

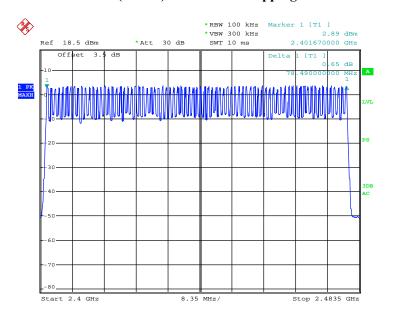
The testing was performed by Simon Wang on 2014-12-28.

EUT operation mode: Transmitting

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

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BDR (GFSK): Number of Hopping Channels

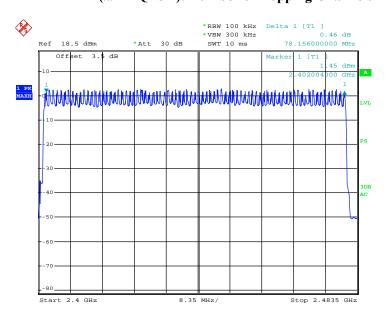


Date: 28.DEC.2014 15:40:12

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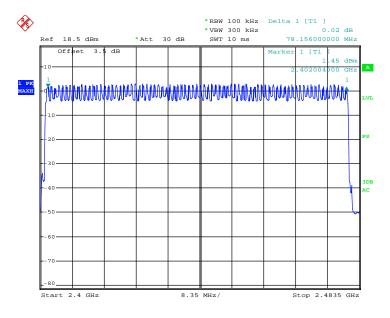
EDR ($\pi/4$ -DQPSK): Number of Hopping Channels

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 15:30:39

EDR (8DPSK): Number of Hopping Channels



EUT
Date: 28.DEC.2014 15:20:26

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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.

Report No.: RSZ141224016-00B

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	2014-11-03	2015-11-03

^{*} 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:	21 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2014-12-28

EUT operation mode: Transmitting

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

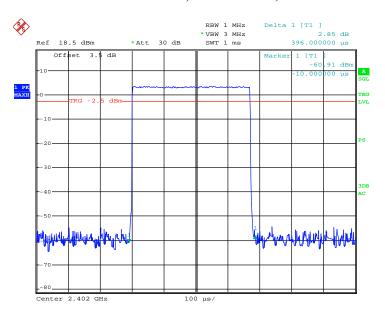
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Mode		Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result		
		Low	0.396	0.127	0.4	Pass		
	DII 1	Middle	0.396	0.127	0.4	Pass		
	DH 1	High	0.396	0.127	0.4	Pass		
	-	Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S						
		Low	1.668	0.267	0.4	Pass		
BDR	DH 2	Middle	1.668	0.267	0.4	Pass		
(GFSK)	DH 3	High	1.668	0.267	0.4	Pass		
	-	Note:	DH3:Dwell time = F	Pulse time*(1600/	4/79)*31.6S			
		Low	2.906	0.310	0.4	Pass		
	DIL 5	Middle	2.906	0.310	0.4	Pass		
	DH 5	High	2.906	0.310	0.4	Pass		
		Note:	DH5:Dwell time = F	Pulse time*(1600/	6/79)*31.6S			
	2DH 1	Low	0.394	0.126	0.4	Pass		
		Middle	0.394	0.126	0.4	Pass		
		High	0.394	0.126	0.4	Pass		
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S						
	2011.2	Low	1.668	0.267	0.4	Pass		
EDR		Middle	1.668	0.267	0.4	Pass		
$(\pi/4\text{-DQPSK})$	2DH 3	High	1.668	0.267	0.4	Pass		
	ļ	Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S						
	2DH 5	Low	2.926	0.312	0.4	Pass		
		Middle	2.926	0.312	0.4	Pass		
	2DH 3	High	2.926	0.312	0.4	Pass		
	-	Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S						
	3DH 1	Low	0.408	0.131	0.4	Pass		
		Middle	0.408	0.131	0.4	Pass		
		High	0.408	0.131	0.4	Pass		
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S						
	3DH 3	Low	1.656	0.265	0.4	Pass		
EDR (8DPSK)		Middle	1.656	0.265	0.4	Pass		
	כ חענ	High	1.656	0.265	0.4	Pass		
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S						
	3DH 5	Low	2.926	0.312	0.4	Pass		
		Middle	2.926	0.312	0.4	Pass		
		High	2.926	0.312	0.4	Pass		
		Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6S						

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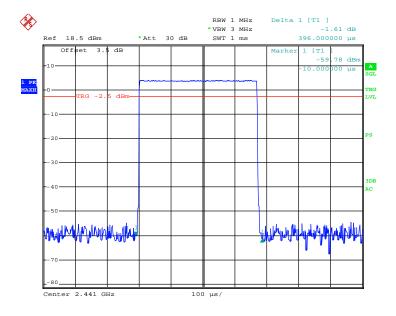
BDR (GFSK): Pulse time, Low Channel, DH1

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:52:04

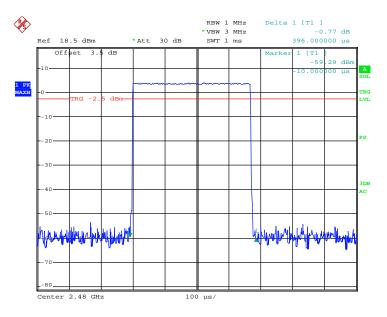
Pulse time, Middle Channel, DH1



Date: 28.DEC.2014 14:52:38

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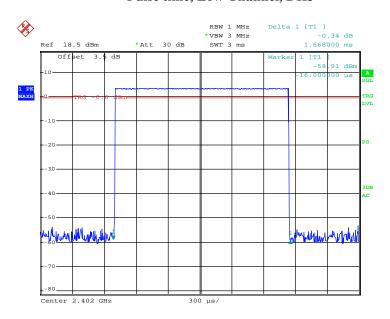
Pulse time, High Channel, DH1



EUT

Date: 28.DEC.2014 14:53:43

Pulse time, Low Channel, DH3

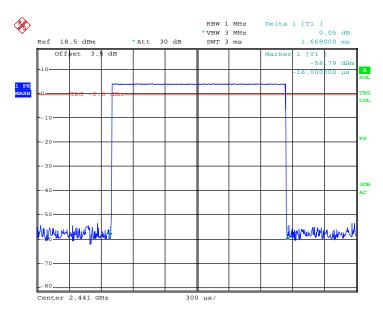


EUT

Date: 28.DEC.2014 14:55:50

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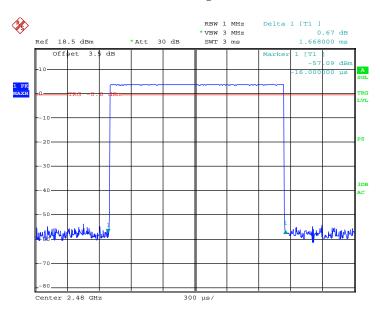
Pulse time, Middle Channel, DH3



TUE

Date: 28.DEC.2014 14:55:37

Pulse time, High Channel, DH3

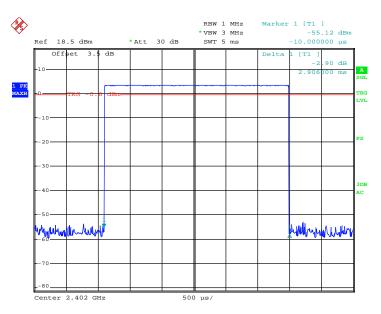


EUT

Date: 28.DEC.2014 14:55:15

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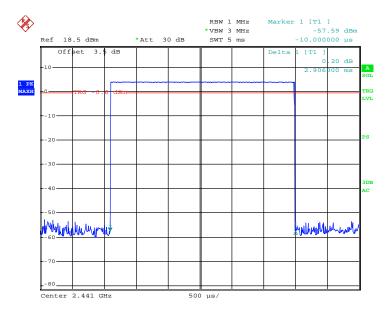
Pulse time, Low Channel, DH5



EUT

Date: 28.DEC.2014 15:00:13

Pulse time, Middle Channel, DH5



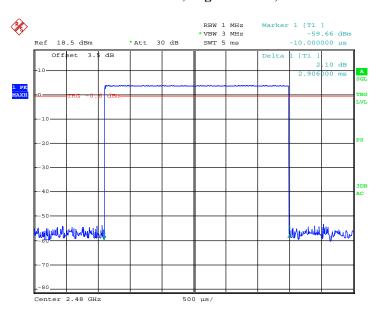
EUT

Date: 28.DEC.2014 14:59:57

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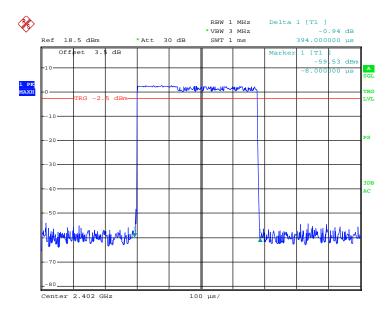
Pulse time, High Channel, DH5

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 14:59:27

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

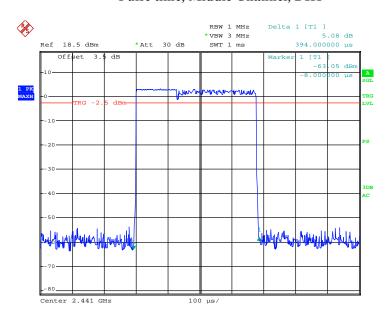


EUT
Date: 28.DEC.2014 14:50:24

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Pulse time, Middle Channel, DH1

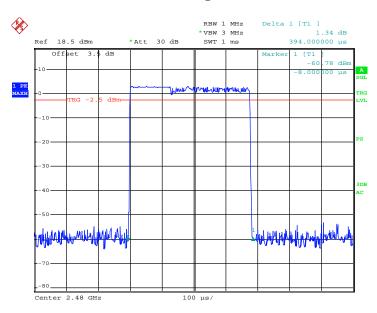
Report No.: RSZ141224016-00B



EUT

Date: 28.DEC.2014 14:50:51

Pulse time, High Channel, DH1



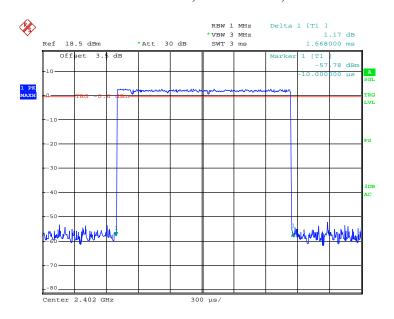
EUT

Date: 28.DEC.2014 14:51:08

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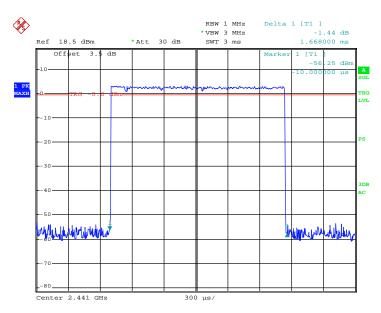
Pulse time, Low Channel, DH3

Report No.: RSZ141224016-00B



Date: 28.DEC.2014 14:56:29

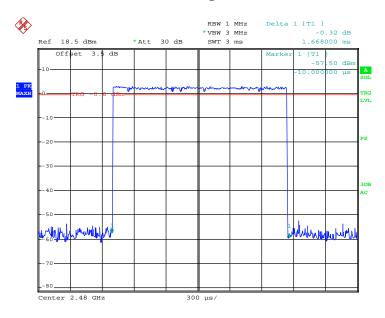
Pulse time, Middle Channel, DH3



EUT
Date: 28.DEC.2014 14:56:53

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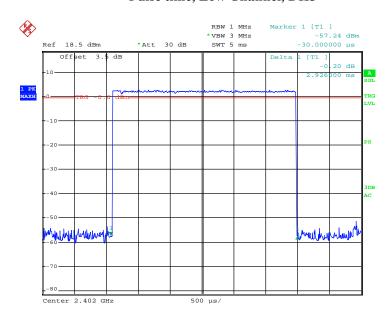
Pulse time, High Channel, DH3



EUT

Date: 28.DEC.2014 14:57:20

Pulse time, Low Channel, DH5

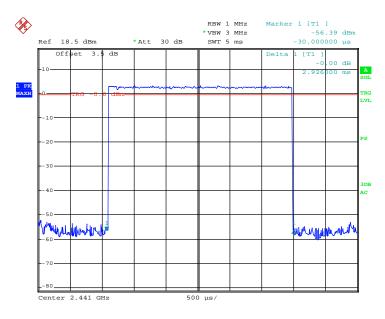


EUT

Date: 28.DEC.2014 15:01:33

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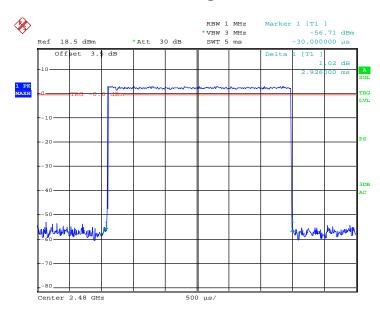
Pulse time, Middle Channel, DH5



EUT

Date: 28.DEC.2014 15:01:06

Pulse time, High Channel, DH5



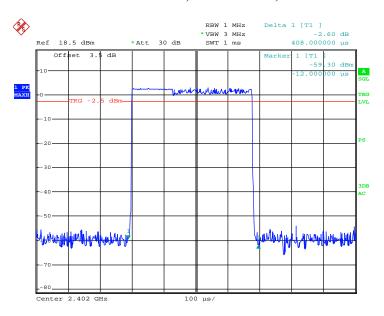
EUT

Date: 28.DEC.2014 15:00:40

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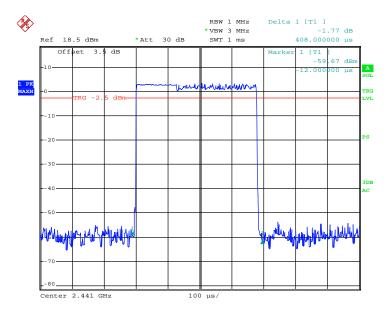
EDR (8DPSK): Pulse time, Low Channel, DH1

Report No.: RSZ141224016-00B



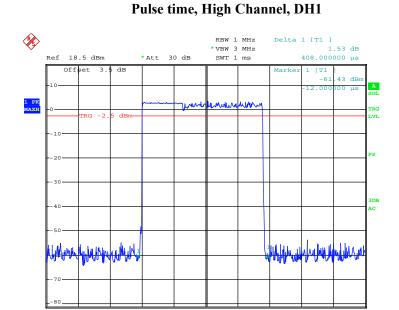
EUT
Date: 28.DEC.2014 14:47:54

Pulse time, Middle Channel, DH1



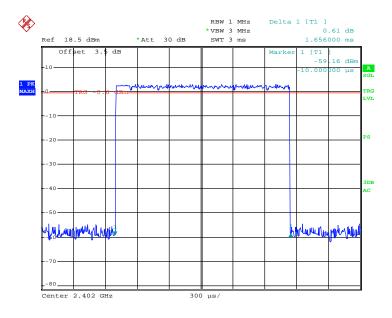
EUT
Date: 28.DEC.2014 14:48:47

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EUT
Date: 28.DEC.2014 14:49:33

Pulse time, Low Channel, DH3

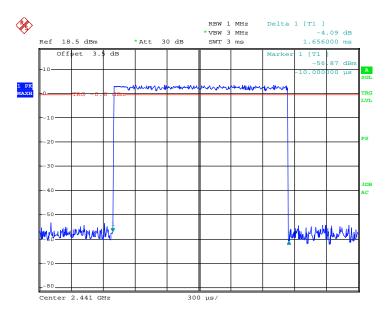


EUT

Date: 28.DEC.2014 14:57:49

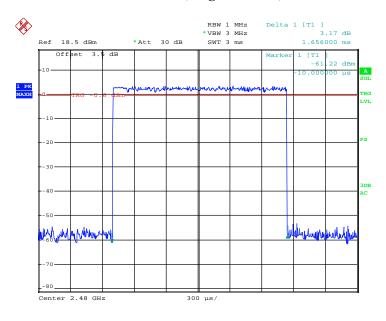
FCC Part 15.247 Page 49 of 62

Pulse time, Middle Channel, DH3



EUT
Date: 28.DEC.2014 14:58:17

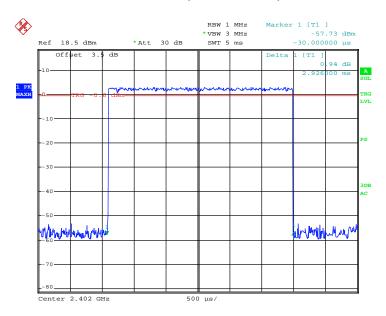
Pulse time, High Channel, DH3



EUT
Date: 28.DEC.2014 14:58:36

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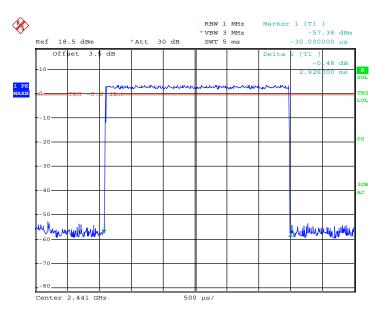
Pulse time, Low Channel, DH5



EUT

Date: 28.DEC.2014 15:03:29

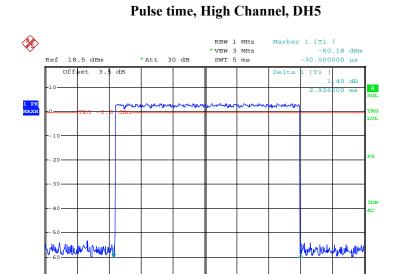
Pulse time, Middle Channel, DH5



EUT

Date: 28.DEC.2014 15:03:06

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EUT

Date: 28.DEC.2014 15:02:21

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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.

Report No.: RSZ141224016-00B

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	EMI Test Receiver	ESCI	101120	2014-11-03	2015-11-03

^{*} 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:	22 ℃	
Relative Humidity:	50 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Simon Wang on 2014-12-28.

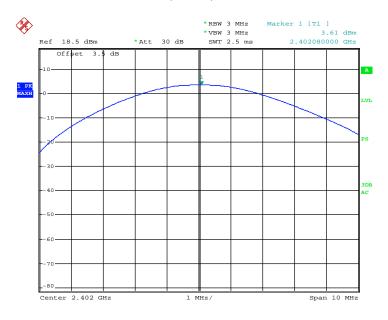
EUT operation mode: Transmitting

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

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Mode	Channel	Frequency	Peak Out	Limit	
Wiouc		(MHz)	(dBm)	(mW)	(mW)
	Low	2402	3.61	2.30	1000
BDR (GFSK)	Middle	2441	4.15	2.60	1000
(61511)	High	2480	4.04	2.54	1000
EDR (π/4-DQPSK)	Low	2402	3.21	2.09	1000
	Middle	2441	3.67	2.33	1000
	High	2480	3.59	2.29	1000
EDR (8DPSK)	Low	2402	3.50	2.24	1000
	Middle	2441	4.10	2.57	1000
	High	2480	4.00	2.51	1000

BDR (GFSK): Low Channel

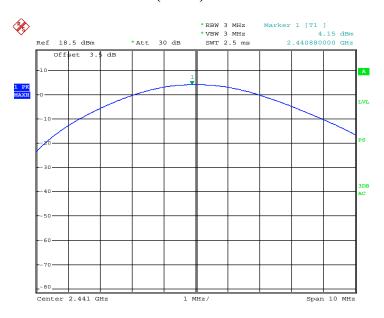


EUT

Date: 28.DEC.2014 14:09:18

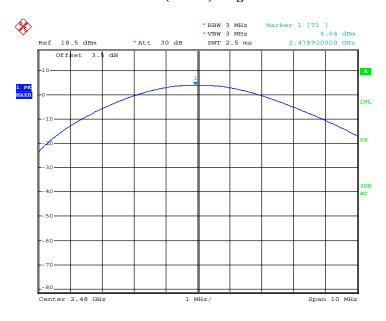
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BDR (GFSK): Middle Channel



EUT
Date: 28.DEC.2014 14:10:06

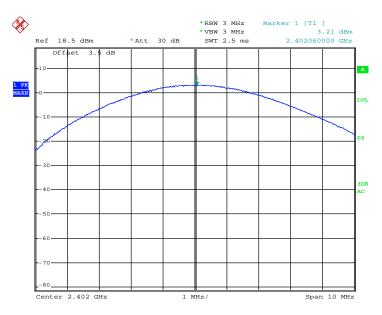
BDR (GFSK): High Channel



Date: 28.DEC.2014 14:10:31

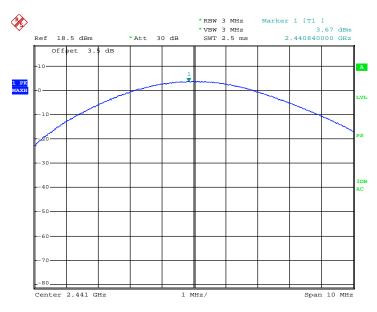
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EDR($\pi/4$ -DQPSK): Low Channel



EUT
Date: 28.DEC.2014 14:11:51

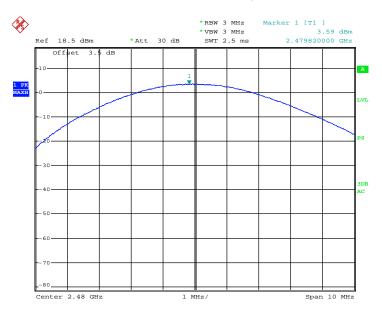
EDR($\pi/4$ -DQPSK): Middle Channel



EUT
Date: 28.DEC.2014 14:11:29

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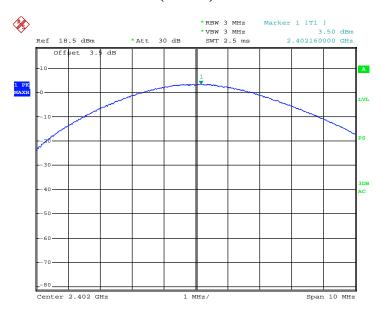
EDR(π/4-DQPSK): High Channel



EUT

Date: 28.DEC.2014 14:11:03

EDR(8DPSK): Low Channel

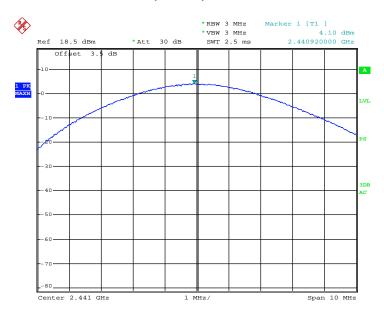


EUT

Date: 28.DEC.2014 14:12:21

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EDR(8DPSK): Middle Channel



EUT

Date: 28.DEC.2014 14:12:47

EDR(8DPSK): High Channel



EUT

Date: 28.DEC.2014 14:13:19

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FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

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

Report No.: RSZ141224016-00B

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	2014-11-03	2015-11-03

^{*} 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:	22~25 ℃
Relative Humidity:	50~53 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang from 2014-12-28 to 2015-01-03.

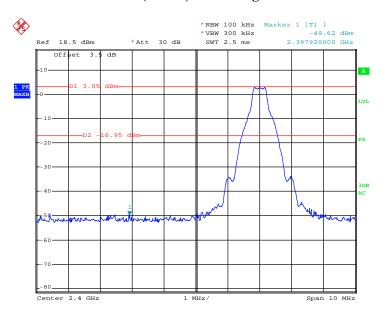
EUT operation mode: Transmitting

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Test Result: Compliance. Please refer to following plots.

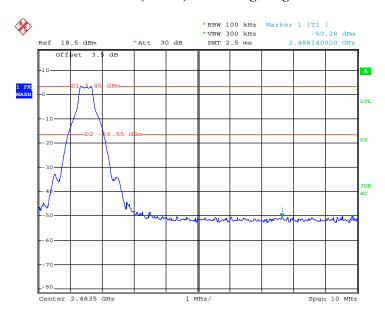
BDR (GFSK): Band Edge-Left Side

Report No.: RSZ141224016-00B



Date: 28.DEC.2014 15:41:56

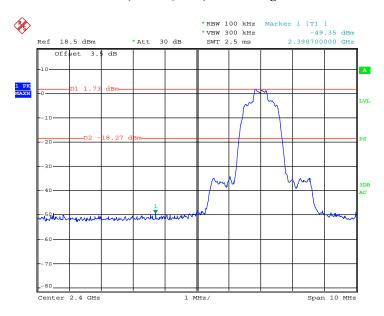
BDR (GFSK): Band Edge-Right Side



EUT
Date: 28.DEC.2014 15:43:47

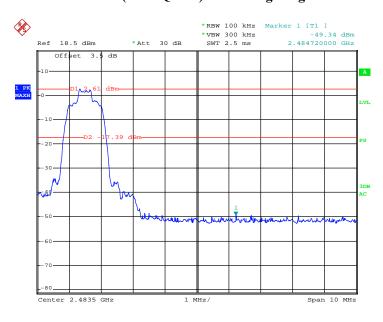
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EDR (π/4-DQPSK): Band Edge-Left Side



EUT
Date: 3.JAN.2015 11:30:54

EDR (π/4-DQPSK): Band Edge-Right Side

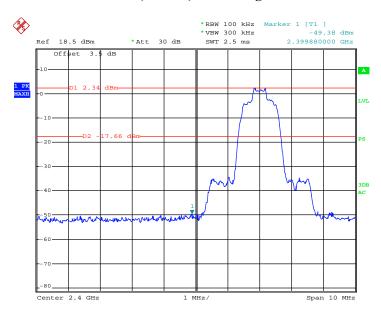


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Date: 28.DEC.2014 15:45:32

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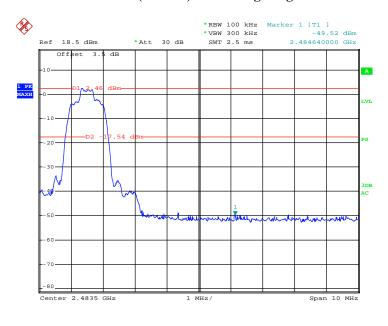
EDR (8DPSK): Band Edge-Left Side

Report No.: RSZ141224016-00B



EUT
Date: 28.DEC.2014 15:46:44

BDR (8DPSK): Band Edge-Right Side



EUT
Date: 28.DEC.2014 15:48:32

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

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