

FCC PART 15.247 TEST REPORT

For

Nexpro International Limitada

Guadalupe, Barrio Tournon, Frente Al Hotel Villas, Oficinas Del Bufete Facio Y Canas, San
Jose-Goicoechea, Costa Rica

FCC ID: ZYPC455

Report Type: Original Report	Product Type: Smart 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 *Nexpro International Limitada*'s product, model number: *C455 (FCC ID: ZYPC455)* or the "EUT" in this report was a *Smart Phone*, which was measured approximately: 157 mm (L) × 80 mm (W) × 9 mm (H), rated with input voltage: DC 3.7V rechargeable Li-ion battery or DC 5.0V from adapter.

Adapter Information:

Model: BANG

Input: AC 100-240V, 50/60Hz, 200mA

Output: DC 5.0V, 1A

**All measurement and test data in this report was gathered from production sample serial number: 1601869. (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2016-04-07.*

Objective

This test report is prepared on behalf of *Nexpro International Limitada* 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)

Part 15.247 DTS, FCC Part 22H & 24E & 27 PCE and Part 15B JBP & Part 15.407 NII submissions with FCC ID: ZYPC455.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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 5.81 dB for 30MHz-1GHz, and 4.88 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 October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.10-2013.

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

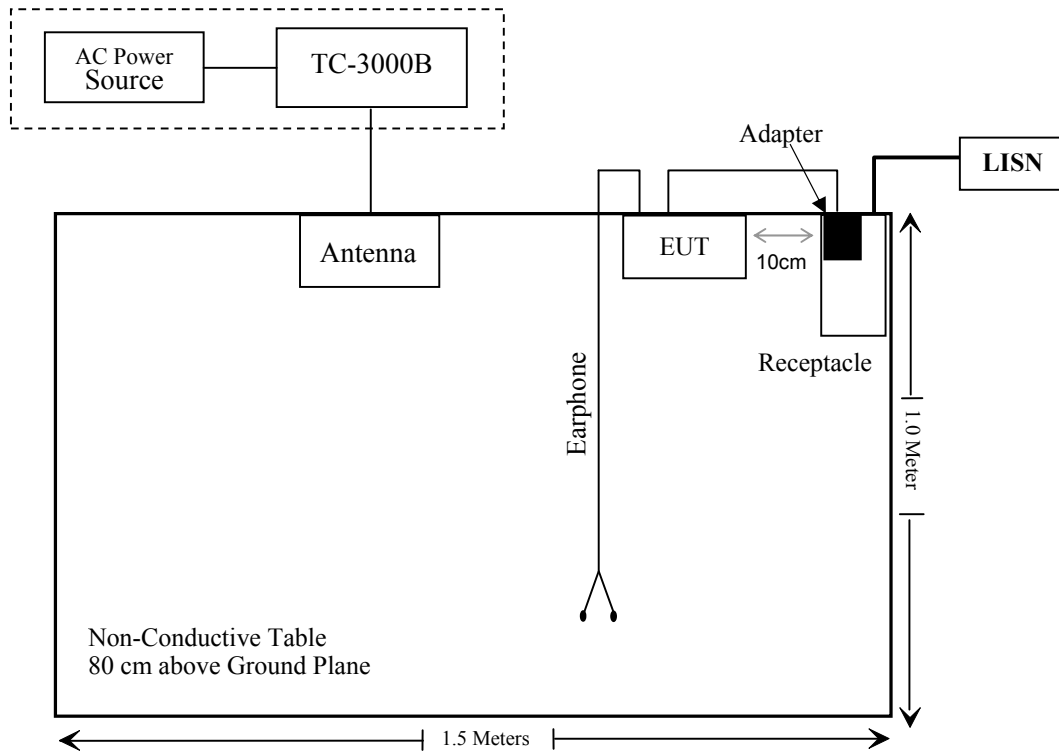
Manufacturer	Description	Model	Serial Number
TESCOM	Bluetooth Tester	TC-3000B	3000B630010

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-Shielding Detachable Earphone Cable	1.1	EUT	Earphone
Un-Shielding 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), §1.1307 (b) (1) &§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.

According to KDB 447498 D01 General RF Exposure Guidance

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

For worst case:

Frequency (MHz)	Maximum conducted Tune-up power		Calculated Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
	power (dBm)	power (mW)				
2480	3.2	2.1	5	0.7	3.0	Yes

Result: No SAR test is required

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

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

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

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.

Port	Expanded Measurement uncertainty
AC Mains	3.34 dB (k=2, 95% level of confidence)
CAT 3	3.72 dB (k=2, 95% level of confidence)
CAT 5	3.74 dB (k=2, 95% level of confidence)
CAT 6	4.54 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 C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

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

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All 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	2015-06-01	2016-05-31
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2015-12-15	2016-12-14
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2015-05-14	2016-05-14
Ducommun technologies	Conducted Emission Cable	RG-214	CB031	2015-06-15	2016-06-15
Rohde & Schwarz	CE Test software	EMC 32	V8.53	NCR	NCR

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

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:

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

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, the worst margin reading as below:

6.0 dB at 0.368450 MHz in the **Neutral** conducted mode

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

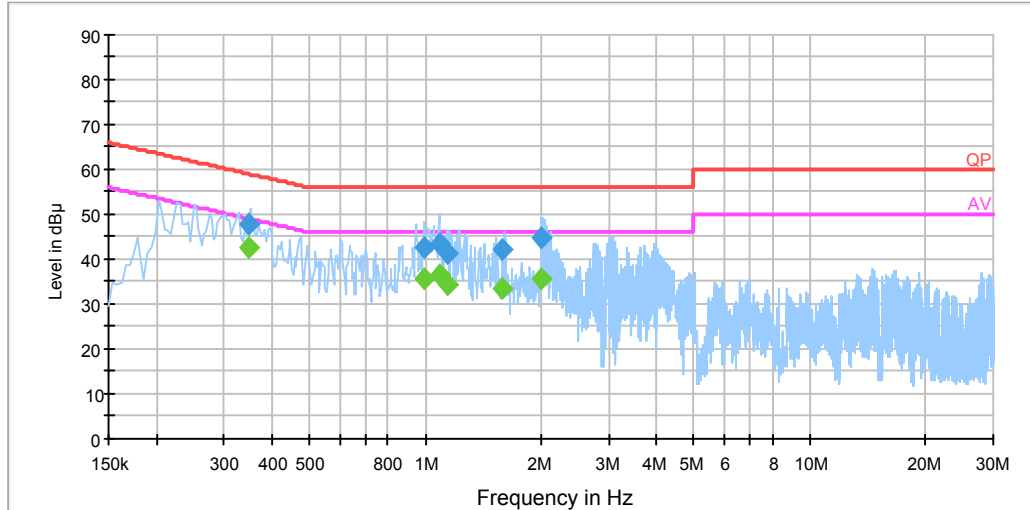
Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang on 2016-04-21.

EUT operation mode: Transmitting & Charging

AC 120V/60 Hz, Line:

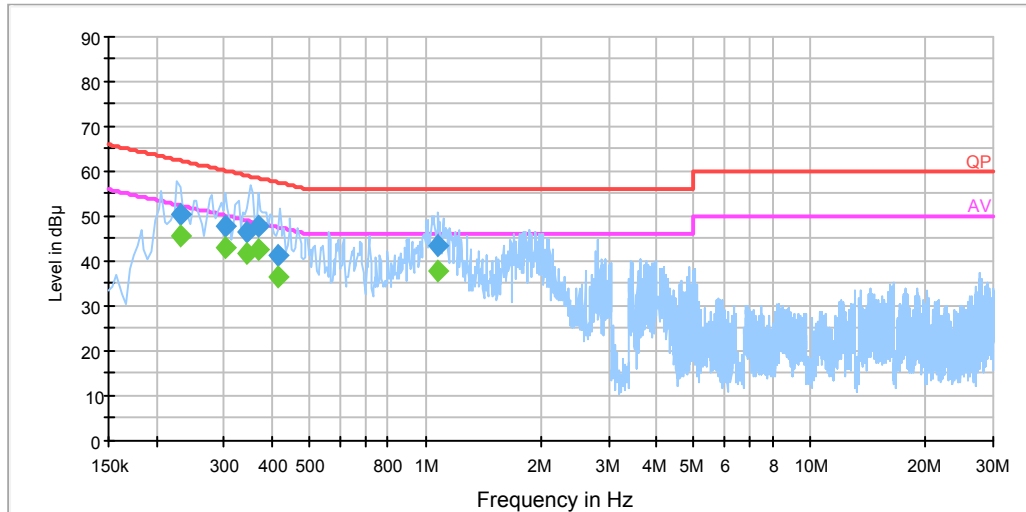
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.348750	47.6	19.9	59.0	11.4	QP
0.348750	42.6	19.9	49.0	6.4	Ave.
0.999090	42.7	20.0	56.0	13.3	QP
0.999090	35.9	20.0	46.0	10.1	Ave.
1.093710	43.6	20.0	56.0	12.4	QP
1.093710	36.6	20.0	46.0	9.4	Ave.
1.144930	41.2	20.0	56.0	14.8	QP
1.144930	34.2	20.0	46.0	11.8	Ave.
1.585850	42.2	20.0	56.0	13.8	QP
1.585850	33.6	20.0	46.0	12.4	Ave.
1.991670	45.0	20.0	56.0	11.0	QP
1.991670	35.9	20.0	46.0	10.1	Ave.

AC 120V/60 Hz, Neutral:

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.230500	50.5	20.0	62.4	11.9	QP
0.230500	45.5	20.0	52.4	6.9	Ave.
0.301470	47.8	19.9	60.2	12.4	QP
0.301470	43.1	19.9	50.2	7.1	Ave.
0.344750	46.5	19.9	59.1	12.6	QP
0.344750	41.8	19.9	49.1	7.3	Ave.
0.368450	47.8	19.9	58.5	10.7	QP
0.368450	42.5	19.9	48.5	6.0	Ave.
0.415730	41.4	19.9	57.5	16.1	QP
0.415730	36.7	19.9	47.5	10.8	Ave.
1.077770	43.5	20.0	56.0	12.5	QP
1.077770	37.8	20.0	46.0	8.2	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

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

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

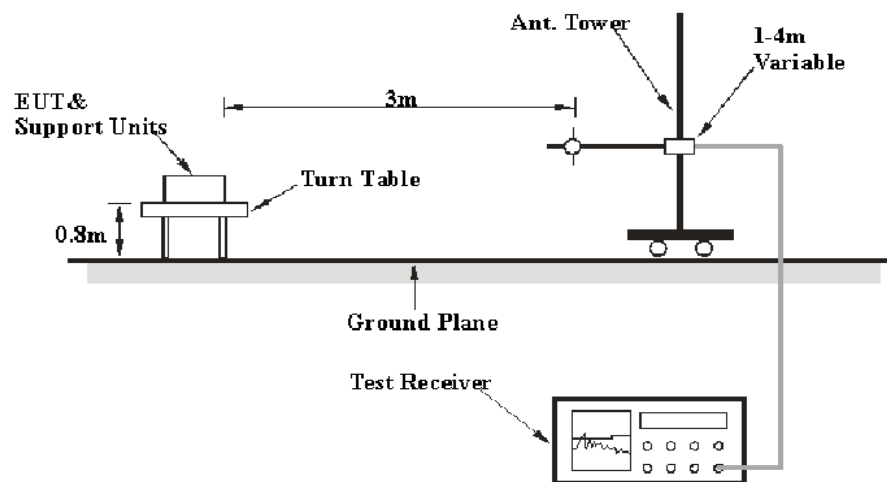
Measurement Uncertainty

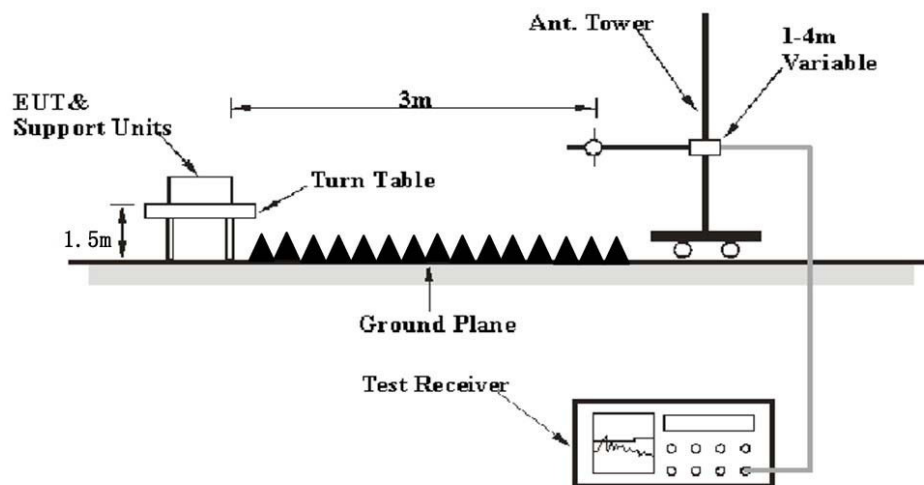
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency 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 5.81 dB for 30MHz-1GHz and 4.88 dB for above 1GHz, 1.95dB for conducted measurement at antenna port. And the uncertainty will not be taken into consideration for the test data recorded in the report.

EUT Setup

Below 1 GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. 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	120 kHz	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.

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.

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	HP8447E	1937A01046	2015-05-06	2016-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2015-12-15	2016-12-14
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-07	2017-12-06
Mini	Amplifier	ZVA-183-S+	5969001149	2015-04-23	2016-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2015-12-11	2016-12-11
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
TDK	Chamber	Chamber A	2#	2013-10-15	2016-10-15
TDK	Chamber	Chamber B	1#	2015-07-23	2016-07-22
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2015-08-03	2016-08-03
R&S	Auto test Software	EMC32	V9.10	NCR	NCR
Ducommun technologies	RF Cable	UFA210A-1-4724-30050U	MFR64369223410-001	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	104PEA	218124002	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	RG-214	1	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	RG-214	2	2015-06-15	2016-06-15

* **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.

12.22dB at480.38 MHz in the Vertical polarization for High Channel

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

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

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

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang on 2016-04-21.

EUT operation mode: Transmitting

30 MHz -25 GHz: (Scan with GFSK, $\pi/4$ -DQPSK, 8-DPSK mode, 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)									
2402.00	95.82	PK	68	2.4	H	-6.46	89.36	/	/
2402.00	83.71	Ave.	68	2.4	H	-6.46	77.25	/	/
2402.00	95.71	PK	106	1.8	V	-6.46	89.25	/	/
2402.00	83.66	Ave.	106	1.8	V	-6.46	77.20	/	/
2363.54	42.11	PK	326	1.9	H	-6.46	35.65	74	38.35
2363.54	28.29	Ave.	326	1.9	H	-6.46	21.83	54	32.17
2384.54	43.05	PK	261	1.5	H	-6.46	36.59	74	37.41
2384.54	29.64	Ave.	261	1.5	H	-6.46	23.18	54	30.82
2486.24	41.55	PK	266	2.1	H	-4.74	36.81	74	37.19
2486.24	28.13	Ave.	266	2.1	H	-4.74	23.39	54	30.61
4804.00	43.99	PK	201	1.0	H	3.79	47.78	74	26.22
4804.00	29.01	Ave.	201	1.0	H	3.79	32.80	54	21.20
480.38	34.47	QP	194	1.8	V	-2.6	31.87	46	14.13

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)
Middle Channel (2441 MHz)									
2441.00	95.55	PK	118	1.2	H	-6.46	89.09	/	/
2441.00	84.14	Ave.	118	1.2	H	-6.46	77.68	/	/
2441.00	94.32	PK	352	1.1	V	-6.46	87.86	/	/
2441.00	82.52	Ave.	352	1.1	V	-6.46	76.06	/	/
2379.45	42.14	PK	117	1.8	H	-6.46	35.68	74	38.32
2379.45	29.11	Ave.	117	1.8	H	-6.46	22.65	54	31.35
2488.16	41.26	PK	0	1.9	H	-4.74	36.52	74	37.48
2488.16	28.57	Ave.	0	1.9	H	-4.74	23.83	54	30.17
2493.11	40.69	PK	357	2.4	H	-4.74	35.95	74	38.05
2493.11	26.44	Ave.	357	2.4	H	-4.74	21.70	54	32.30
4882.00	44.21	PK	255	2.0	H	3.56	47.77	74	26.23
4882.00	30.07	Ave.	255	2.0	H	3.56	33.63	54	20.37
480.38	35.71	QP	176	1.9	V	-2.6	33.11	46	12.89
High Channel (2480 MHz)									
2480.00	93.58	PK	91	2.3	H	-4.74	88.84	/	/
2480.00	81.65	Ave.	91	2.3	H	-4.74	76.91	/	/
2480.00	93.43	PK	253	2.5	V	-4.74	88.69	/	/
2480.00	81.47	Ave.	253	2.5	V	-4.74	76.73	/	/
2373.96	41.44	PK	257	1.6	H	-6.46	34.98	74	39.02
2373.96	28.33	Ave.	257	1.6	H	-6.46	21.87	54	32.13
2483.51	51.11	PK	216	2.3	H	-4.74	46.37	74	27.63
2483.51	38.71	Ave.	216	2.3	H	-4.74	33.97	54	20.03
2483.69	48.87	PK	263	1.5	H	-4.74	44.13	74	29.87
2483.69	37.14	Ave.	263	1.5	H	-4.74	32.40	54	21.60
4960.00	44.89	PK	111	1.8	H	3.19	48.08	74	25.92
4960.00	30.34	Ave.	111	1.8	H	3.19	33.53	54	20.47
480.38	36.38	QP	187	1.6	V	-2.6	33.78	46	12.22

Note:

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

Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected Amplitude

The spurious emission which is 20dB below the limit was not recorded.

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST**Applicable Standard**

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

Test Procedure

1. Set the EUT in transmitting mode, maxhold the channel.
2. Set the adjacent channel of the EUT and maxhold another trace.
3. Measure the channel separation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2015-12-11	2016-12-11
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHEL	3dB Attenuator	5321	AU0709	2015-06-18	2016-06-18

* **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:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang on 2016-04-19.

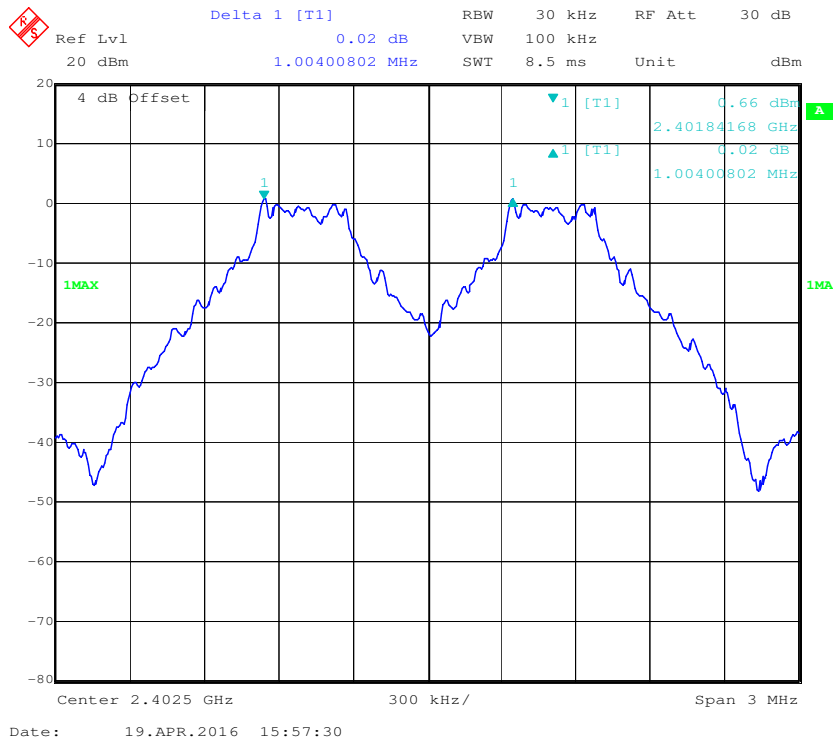
EUT operation mode: Transmitting

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

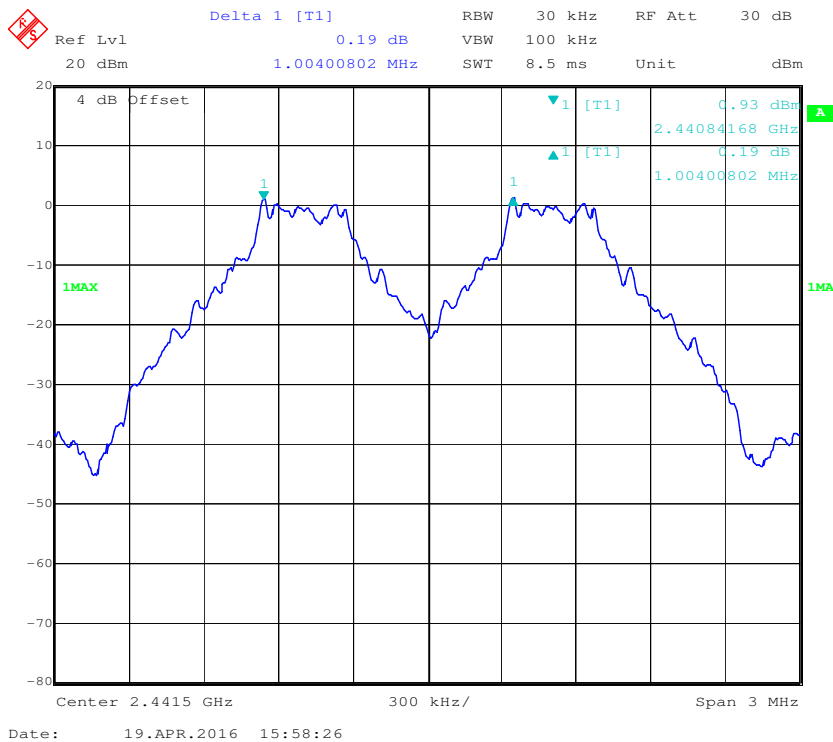
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	$\geq$ Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.004	0.620	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.620	Pass
	Adjacent	2442			
	High	2480	1.004	0.620	Pass
	Adjacent	2479			
EDR ($\pi/4$-DQPSK)	Low	2402	1.004	0.840	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.840	Pass
	Adjacent	2442			
	High	2480	1.004	0.840	Pass
	Adjacent	2479			
EDR (8DPSK)	Low	2402	1.004	0.840	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.847	Pass
	Adjacent	2442			
	High	2480	1.004	0.847	Pass
	Adjacent	2479			

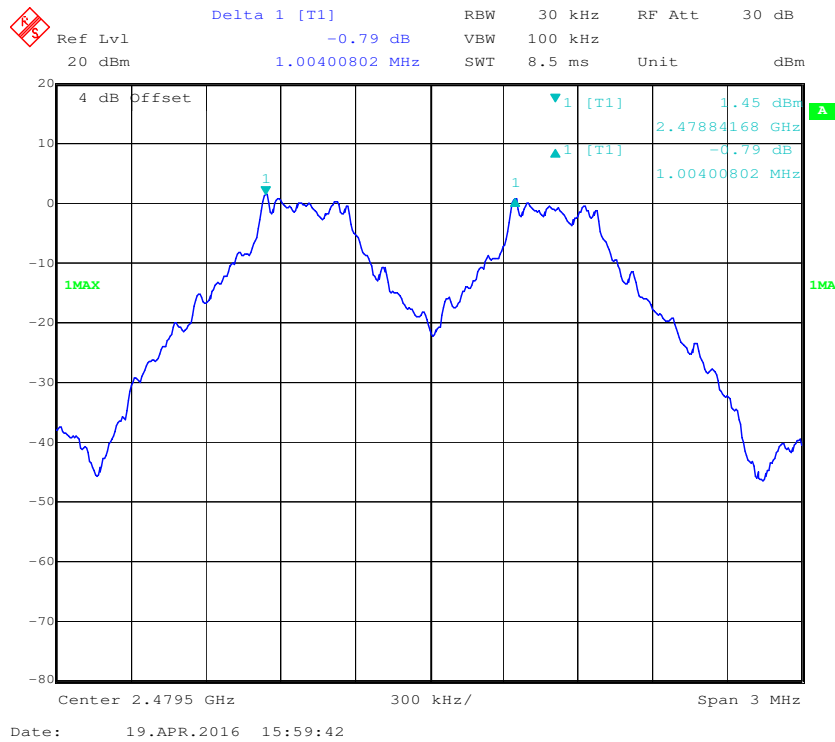
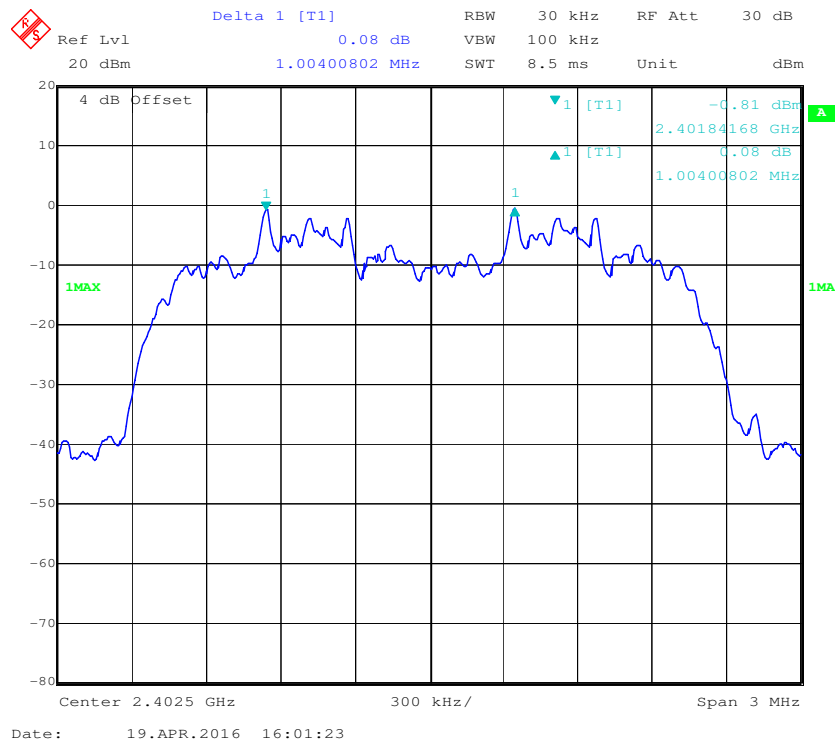
Note: Limit = 20 dB bandwidth *2/3

BDR (GFSK): Low Channel

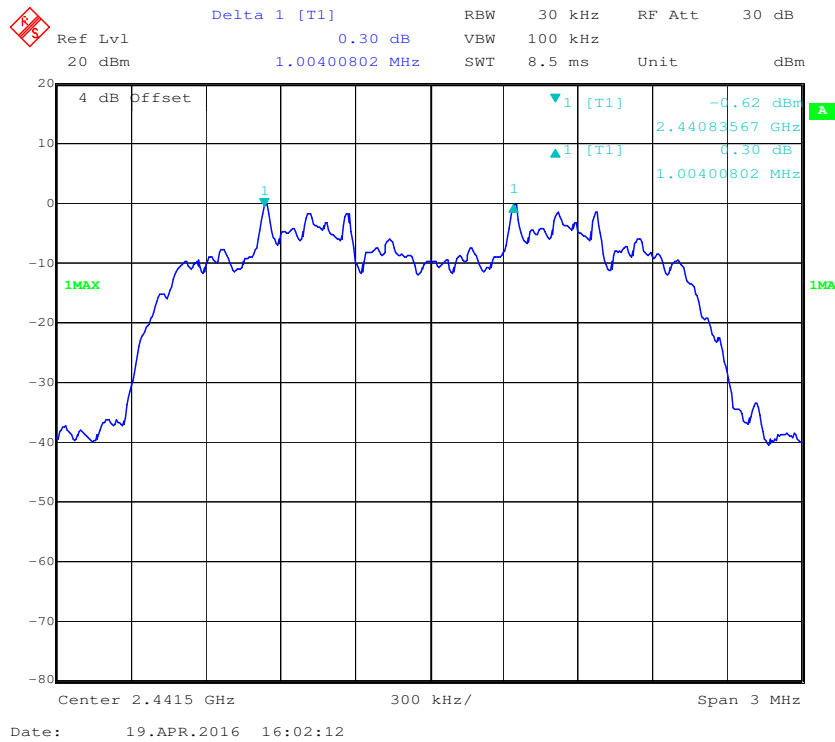


BDR (GFSK): Middle Channel

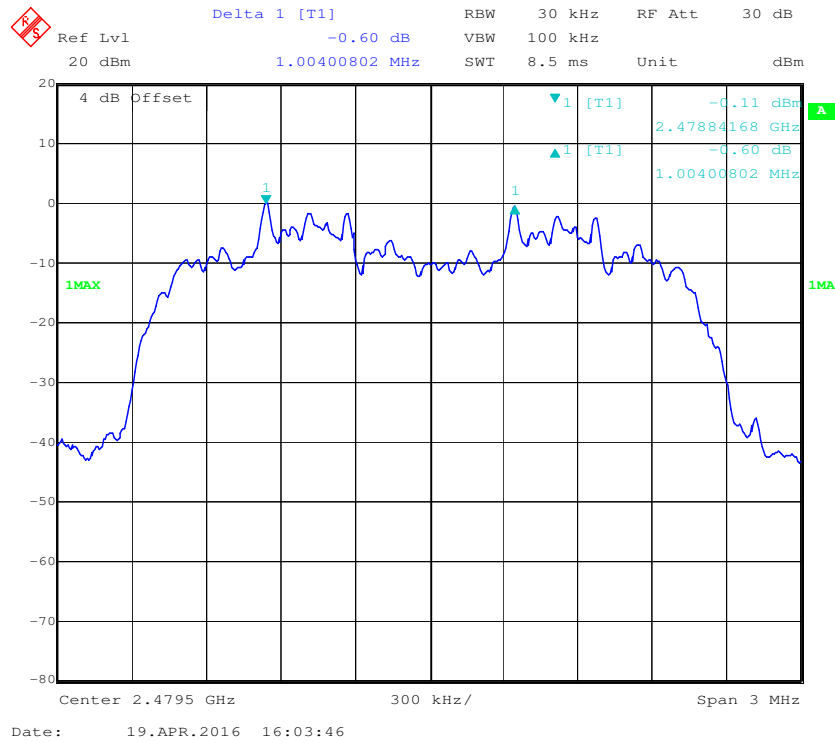


BDR (GFSK): High Channel**EDR ($\pi/4$ -DQPSK): Low Channel**

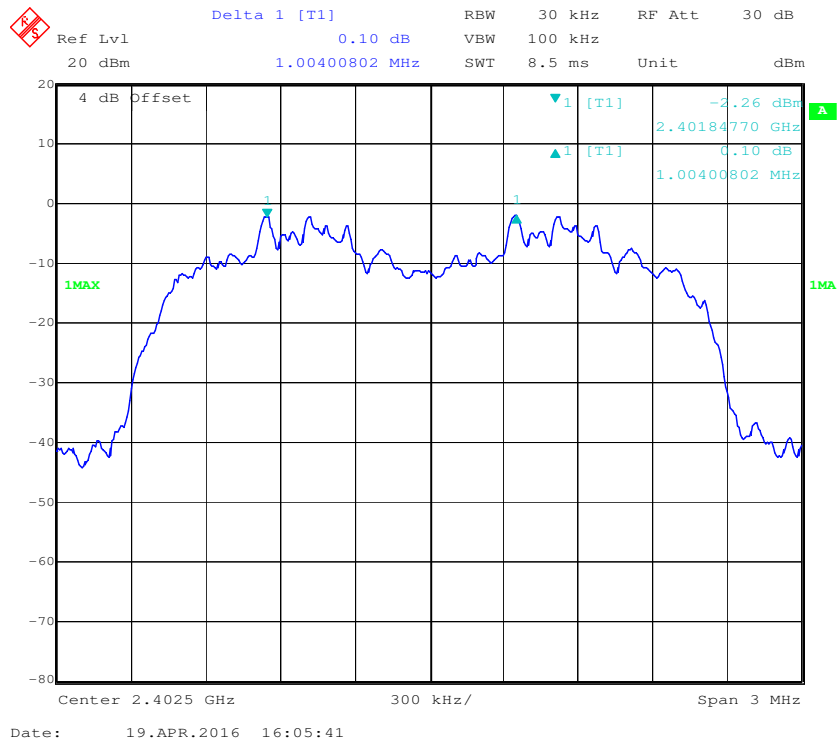
EDR ($\pi/4$ -DQPSK): Middle Channel



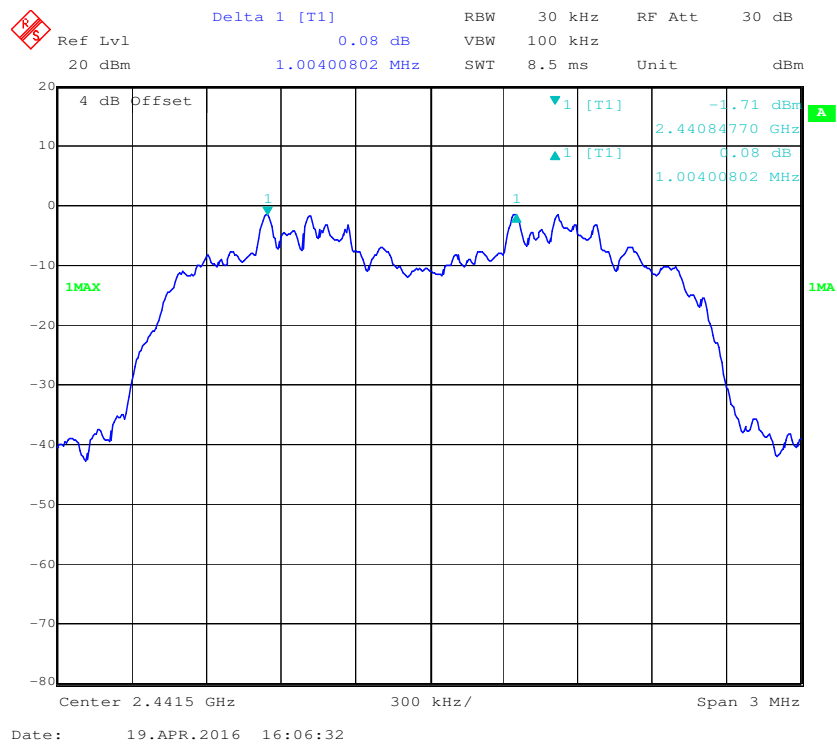
EDR ($\pi/4$ -DQPSK): High Channel



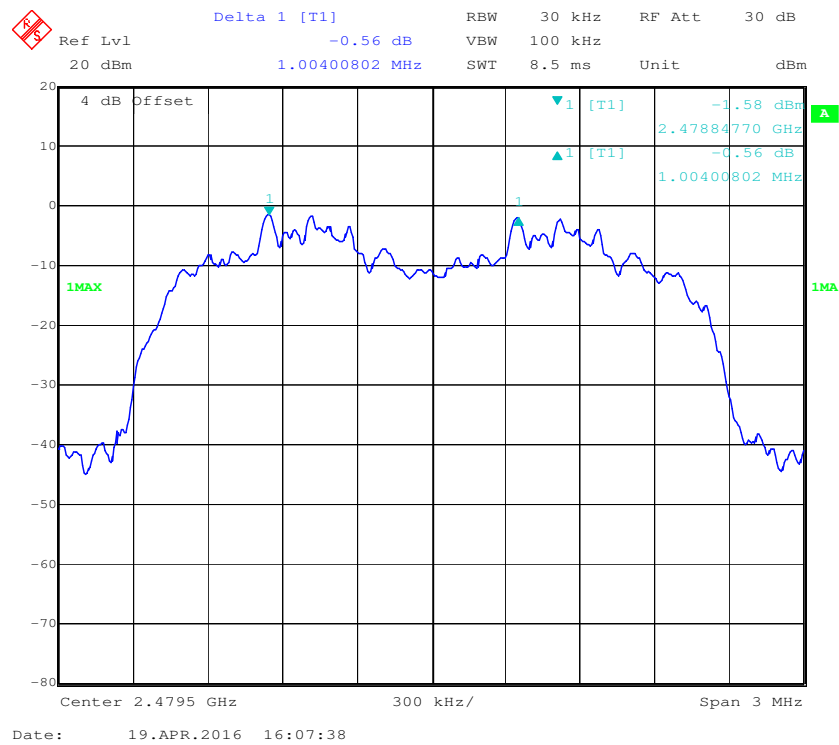
EDR (8DPSK): Low Channel



EDR (8DPSK): Middle Channel



EDR (8DPSK): High Channel



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

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2015-12-11	2016-12-11
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHEL	3dB Attenuator	5321	AU0709	2015-06-18	2016-06-18

* **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:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang on 2016-04-19.

EUT operation mode: Transmitting

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

Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.93
	Middle	2441	0.93
	High	2480	0.93
EDR ($\pi/4$ -DQPSK)	Low	2402	1.26
	Middle	2441	1.26
	High	2480	1.26
EDR (8DPSK)	Low	2402	1.26
	Middle	2441	1.27
	High	2480	1.27

Delta 1 [T1] -0.26 dB RBW 30 kHz RF Att 30 dB

Ref Lvl 20 dBm VBW 100 kHz

20 dBm 933.86773547 kHz SWT 6 ms Unit dBm

4 dB Offset

1 [T1] -18.88 dBm 2.40155311 GHz

2 [T1] -0.26 dB 933.86773547 kHz

1 [T1] -0.65 dBm 2.40184168 GHz

D1 0.65 dBm

D2 -19.35 dBm

1MAX

2MAX

Center 2.402 GHz 200 kHz/ Span 2 MHz

Date: 19.APR.2016 14:11:40

Delta 1 [T1] RBW 30 kHz RF Att 30 dB
 Ref Lvl -0.10 dB VBW 100 kHz
 20 dBm 933.86773547 kHz SWT 6 ms Unit dBm

4 dB Offset

1 [T1] -18.62 dBm
 2.44055311 GHz
 -0.10 dB
 933.86773547 kHz
 0.96 dBm
 2.44084569 GHz

D1 0.96 dBm
 D2 -19.04 dBm

1MAX

Center 2.441 GHz 200 kHz/ Span 2 MHz

Date: 19.APR.2016 14:13:09

Delta 1 [T1]

Ref Lvl 0.39 dB

20 dBm 933.86773547 kHz

RBW 30 kHz RF Att 30 dB

VBW 100 kHz

SWT 6 ms Unit dBm

4 dB Offset

1MAX

D1 0.73 dBm

D2 -19.27 dBm

1 [T1] -15.56 dBm

2 [T1] 0.39 dBm

933.86773547 kHz

2.47954910 GHz

2.47984569 GHz

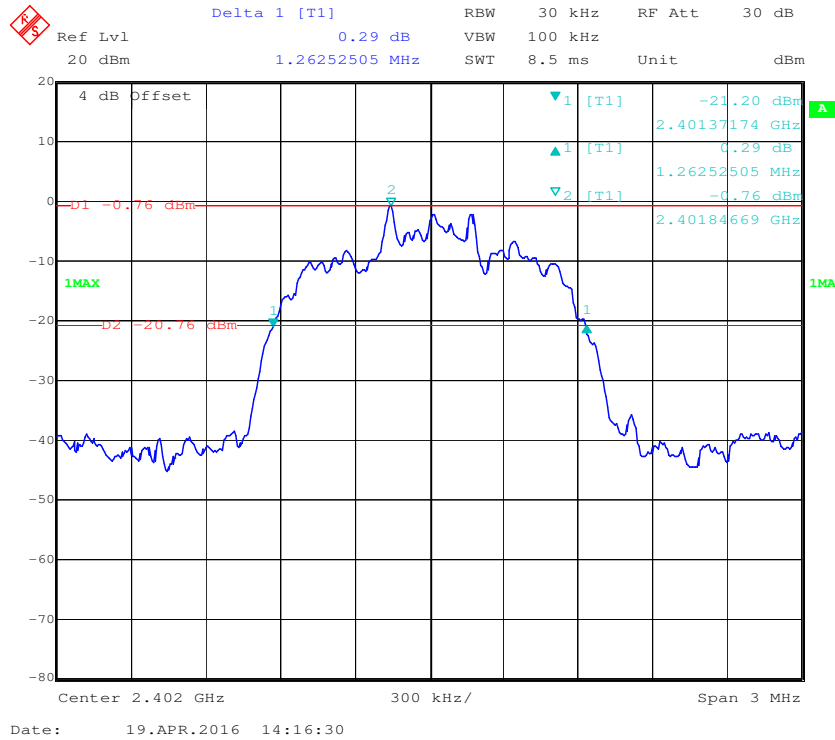
Center 2.48 GHz

200 kHz/

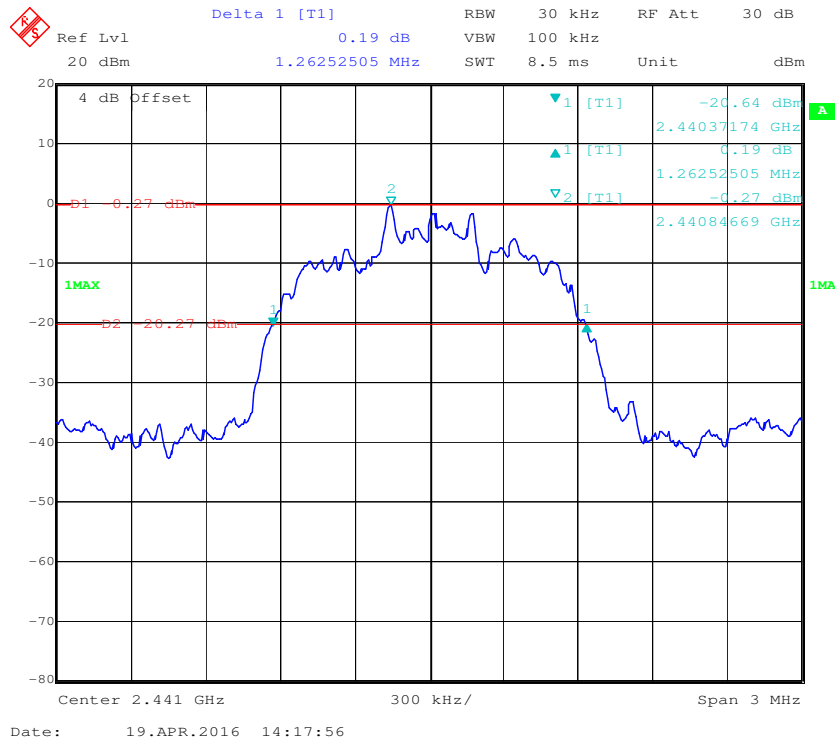
Span 2 MHz

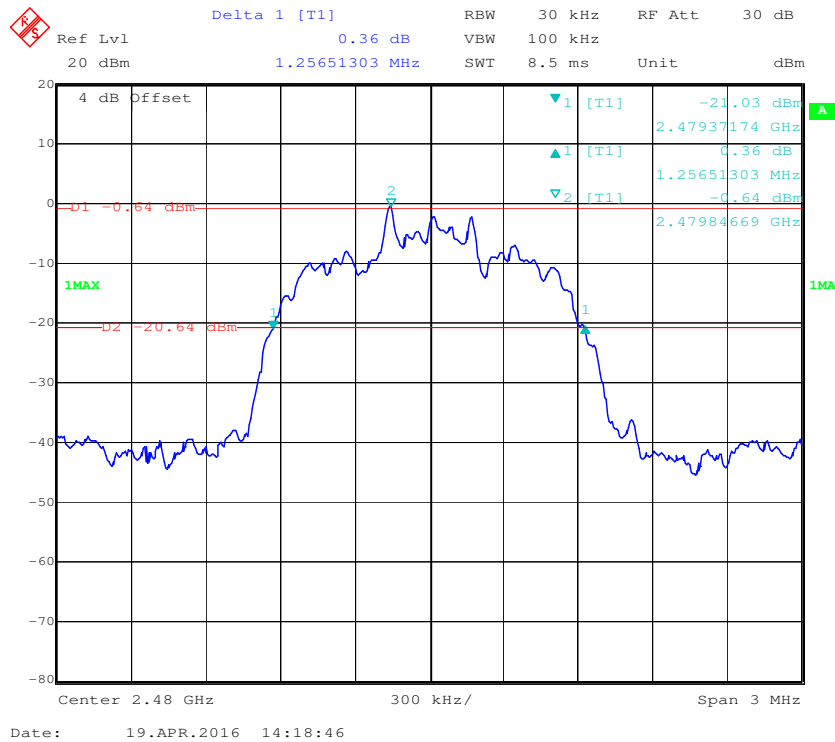
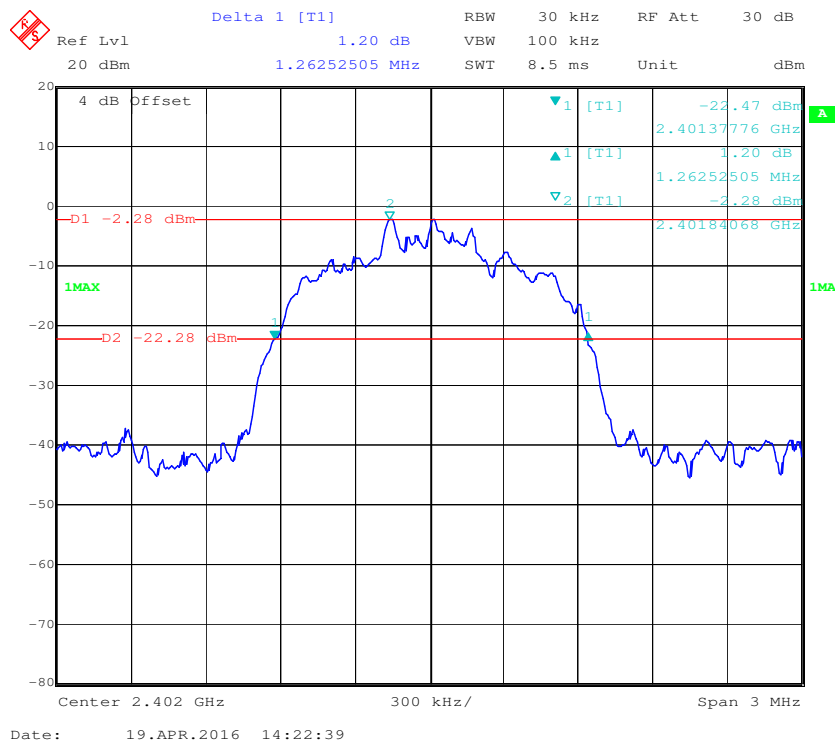
Date: 19.APR.2016 14:14:26

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

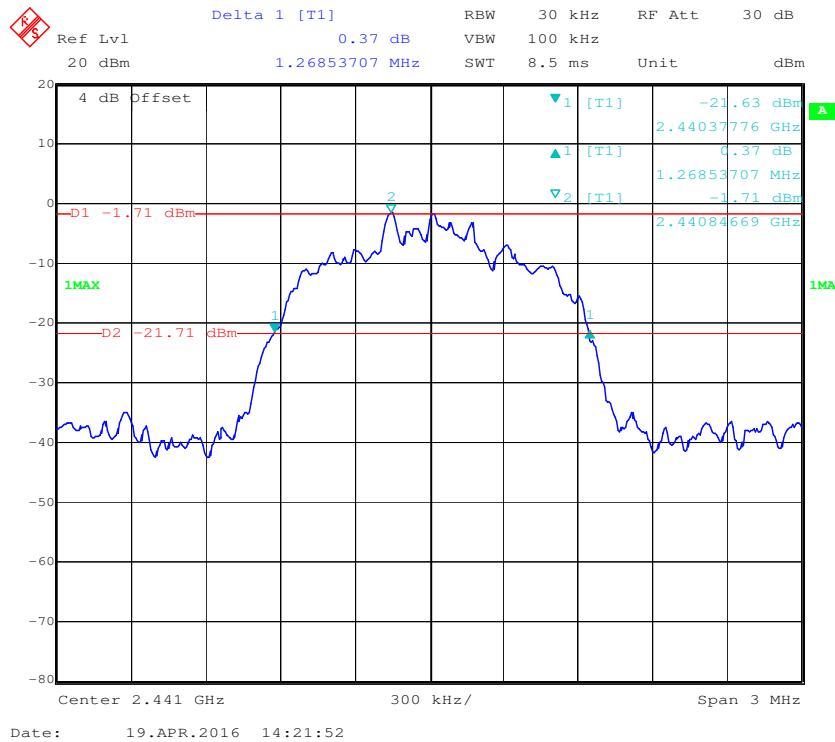


EDR ($\pi/4$ -DQPSK): Middle Channel

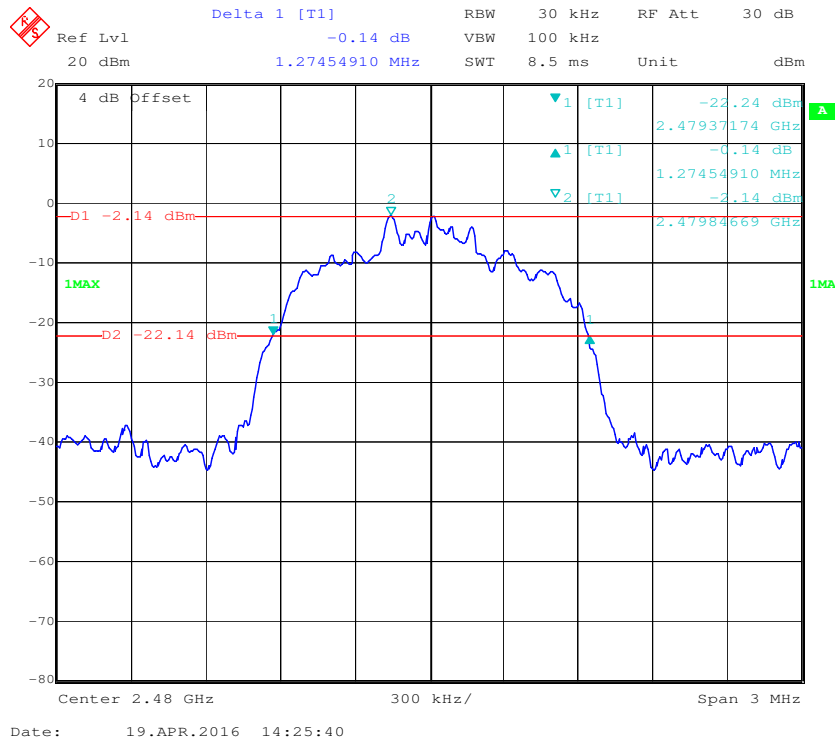


EDR ($\pi/4$ -DQPSK): High Channel**EDR (8DPSK): Low Channel**

EDR (8DPSK): Middle Channel



EDR (8DPSK): High Channel



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

Applicable Standard

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

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2015-12-11	2016-12-11
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHTEL	3dB Attenuator	5321	AU0709	2015-06-18	2016-06-18

* **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:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

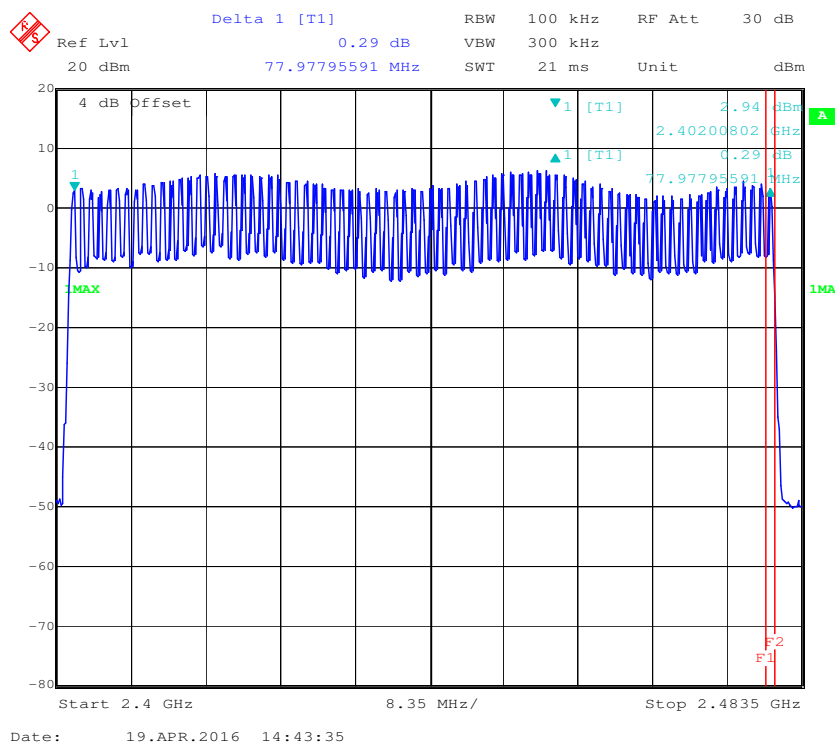
The testing was performed by Rocky Kang on 2016-04-19.

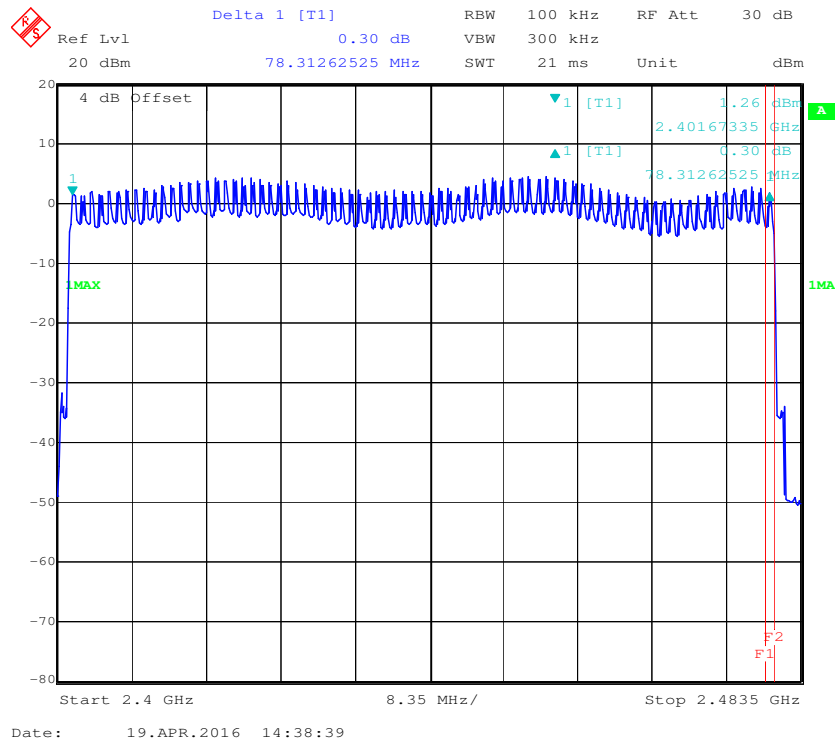
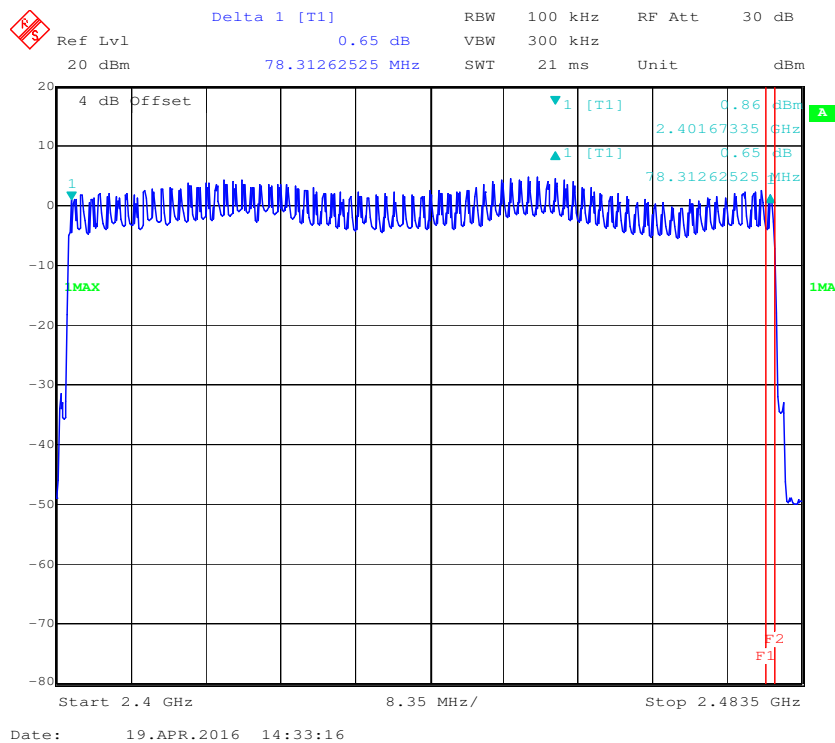
EUT operation mode: Transmitting

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

Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥ 75
EDR ($\pi/4$ -DQPSK)	2400-2483.5	79	≥ 75
EDR (8DPSK)	2400-2483.5	79	≥ 75

BDR (GFSK): Number of Hopping Channels



EDR ($\pi/4$ -DQPSK): Number of Hopping Channels**EDR (8DPSK): Number of Hopping Channels**

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

Applicable Standard

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

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2015-12-11	2016-12-11
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHL	3dB Attenuator	5321	AU0709	2015-06-18	2016-06-18

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

Test Data

Environmental Conditions

Temperature:	23 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

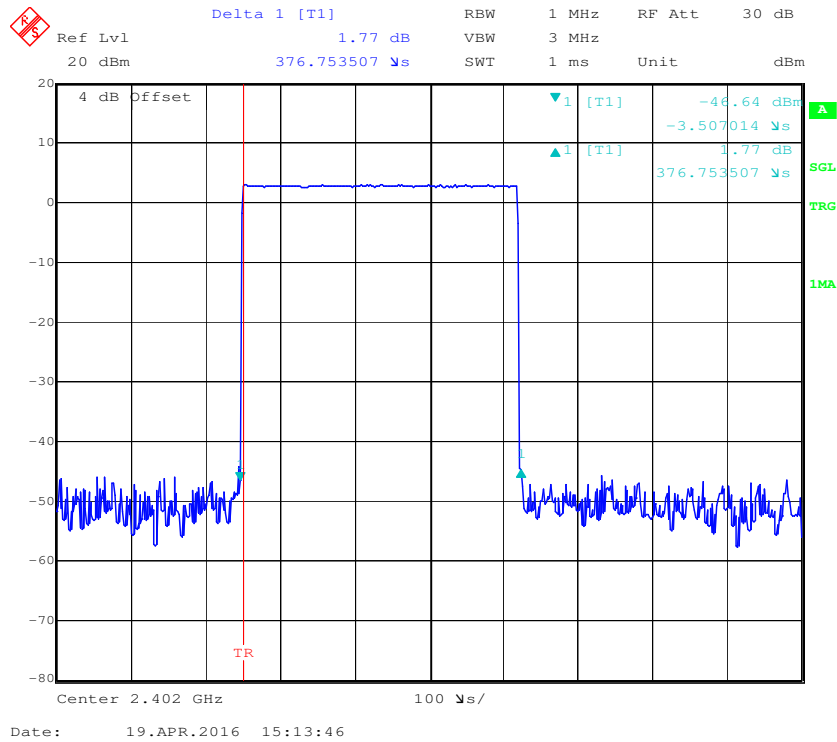
The testing was performed by Rocky Kang on 2016-04-19.

EUT operation mode: Transmitting

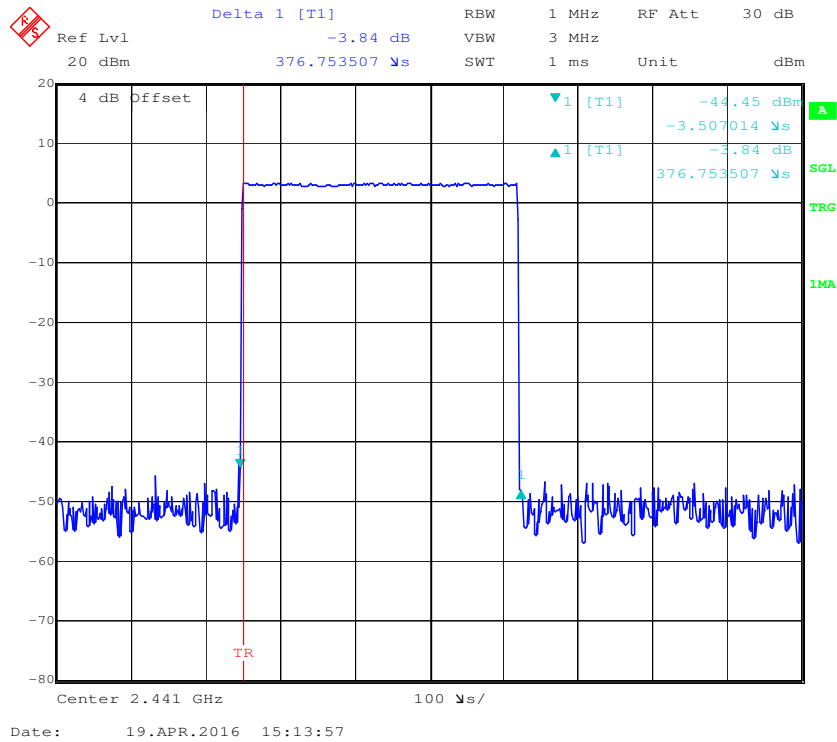
Test Result: Compliance. Please refer to following table and plots.

Mode		Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result
BDR (GFSK)	DH 1	Low	0.377	0.121	0.4	Pass
		Middle	0.377	0.121	0.4	Pass
		High	0.377	0.121	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.641	0.263	0.4	Pass
		Middle	1.647	0.264	0.4	Pass
		High	1.641	0.263	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.906	0.310	0.4	Pass
		Middle	2.906	0.310	0.4	Pass
		High	2.896	0.309	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	2DH 1	Low	0.385	0.123	0.4	Pass
		Middle	0.385	0.123	0.4	Pass
		High	0.385	0.123	0.4	Pass
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	2DH 3	Low	1.647	0.264	0.4	Pass
		Middle	1.647	0.264	0.4	Pass
		High	1.647	0.264	0.4	Pass
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	2DH 5	Low	2.906	0.310	0.4	Pass
		Middle	2.906	0.310	0.4	Pass
		High	2.906	0.310	0.4	Pass
		Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR (8DPSK)	3DH 1	Low	0.385	0.123	0.4	Pass
		Middle	0.385	0.123	0.4	Pass
		High	0.385	0.123	0.4	Pass
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	3DH 3	Low	1.647	0.264	0.4	Pass
		Middle	1.647	0.264	0.4	Pass
		High	1.647	0.264	0.4	Pass
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	3DH 5	Low	2.906	0.310	0.4	Pass
		Middle	2.906	0.310	0.4	Pass
		High	2.906	0.310	0.4	Pass
		Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				

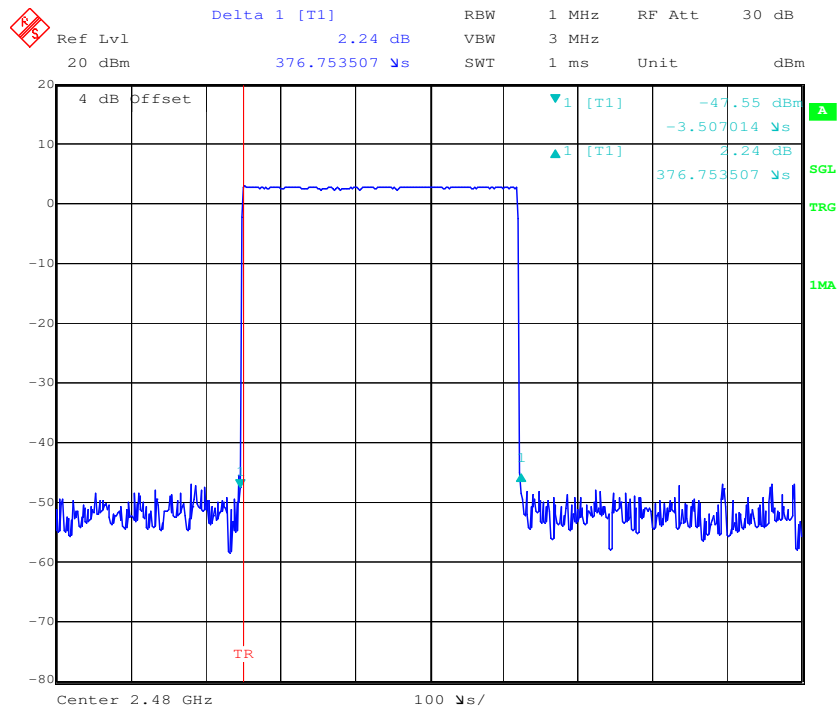
BDR (GFSK): Pulse time, Low Channel, DH1



Pulse time, Middle Channel, DH1

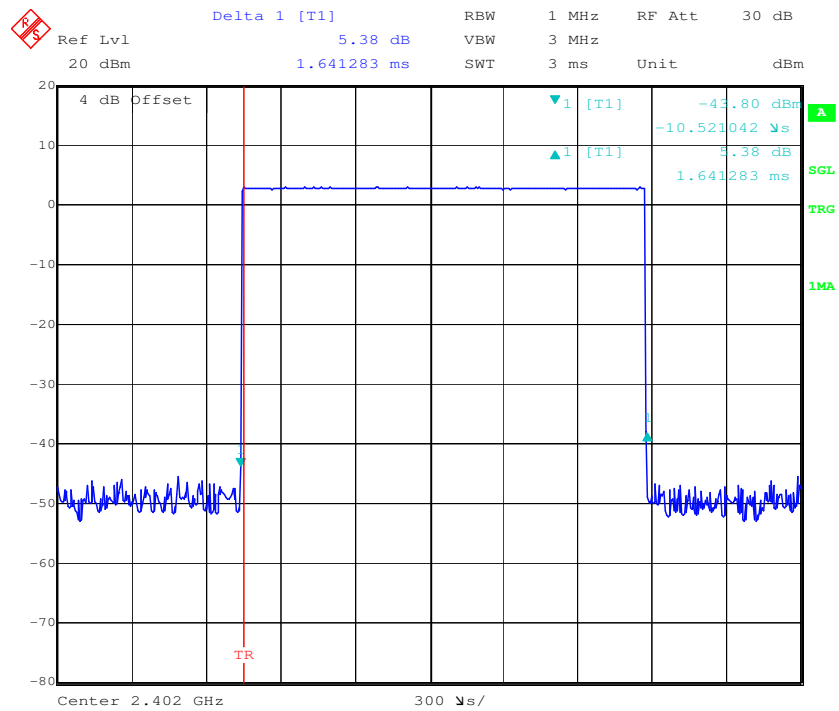


Pulse time, High Channel, DH1



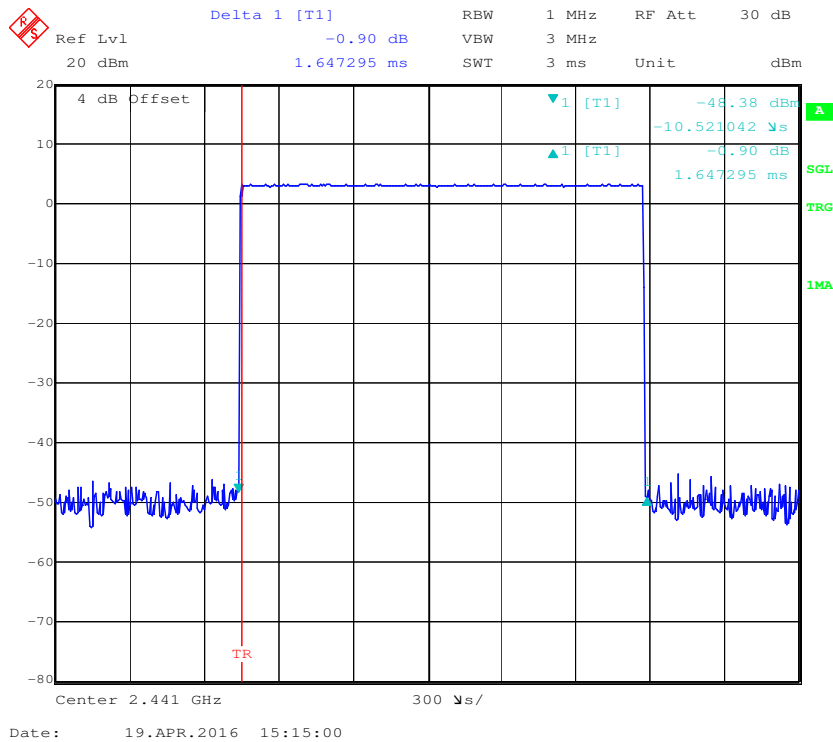
Date: 19.APR.2016 15:14:07

Pulse time, Low Channel, DH3

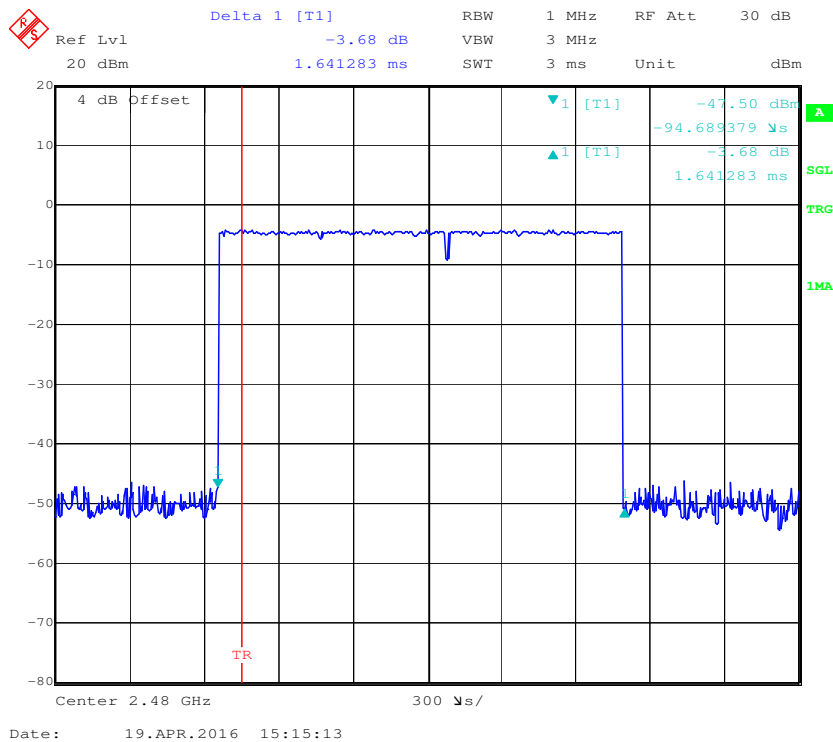


Date: 19.APR.2016 15:14:50

Pulse time, Middle Channel, DH3



Pulse time, High Channel, DH3



Ref Lvl 20 dBm

Delta 1 [T1] -1.68 dB

2.905812 ms

RBW 1 MHz

VBW 3 MHz

SWT 5 ms

RF Att 30 dB

Unit dBm

4 dB Offset

1 [T1] -48.34 dBm

1 [T1] -27.555110 V

1 [T1] -1.68 dB

2.905812 ms

TR

Center 2.402 GHz

500 V/s

A

SGL

TRG

1MA

Date: 19.APR.2016 15:17:34

Ref Lvl 20 dBm

Delta 1 [T1] -1.64 dB

RBW 1 MHz

RF Att 30 dB

2.905812 ms

VBW 3 MHz

Unit dBm

4 dB Offset

▼1 [T1] -47.88 dBm

▲1 [T1] -51.10 dBm

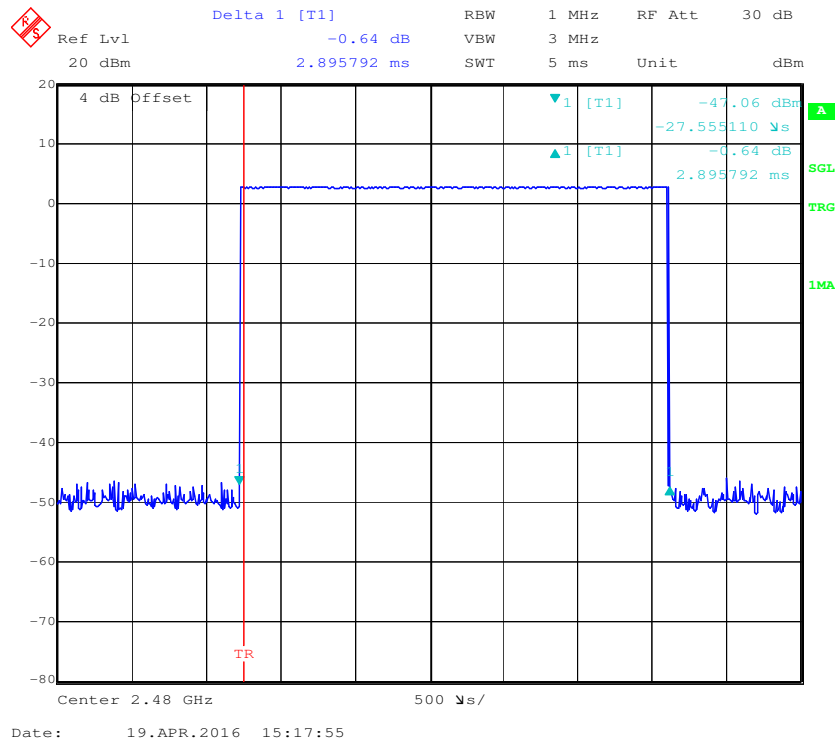
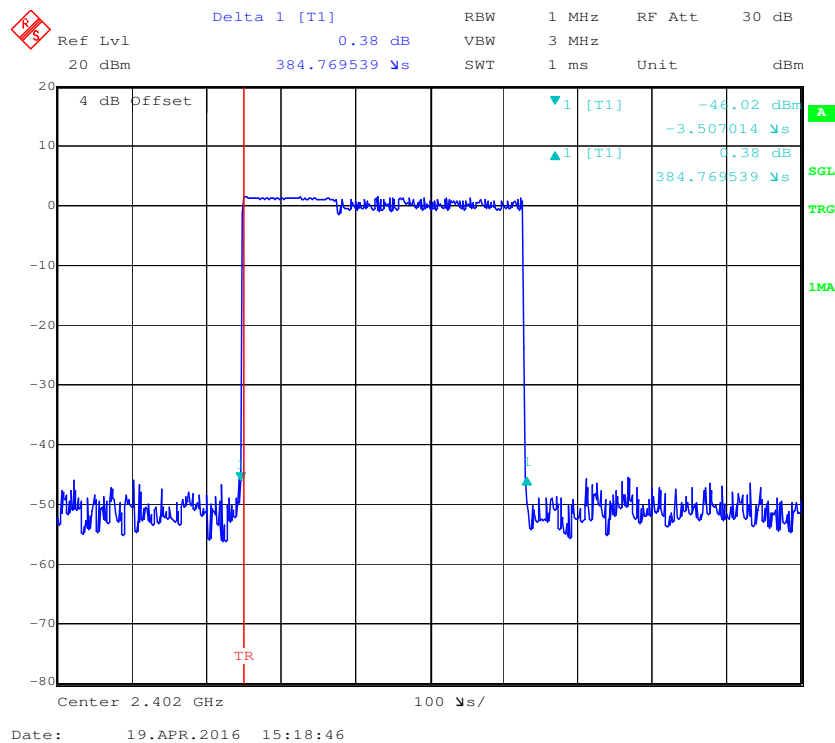
2.905812 ms

TR

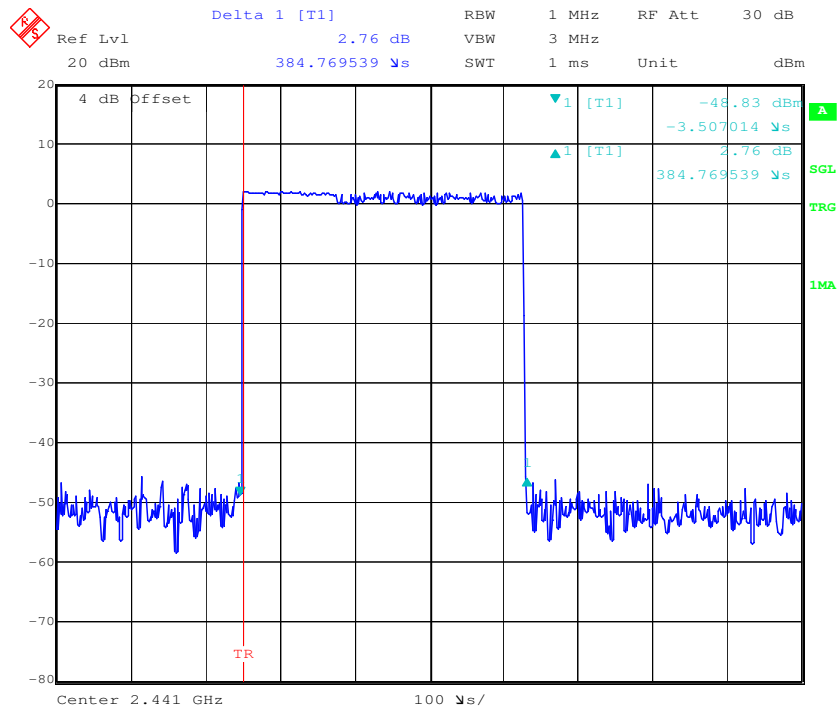
Center 2.441 GHz

500 μ s/

Date: 19.APR.2016 15:17:45

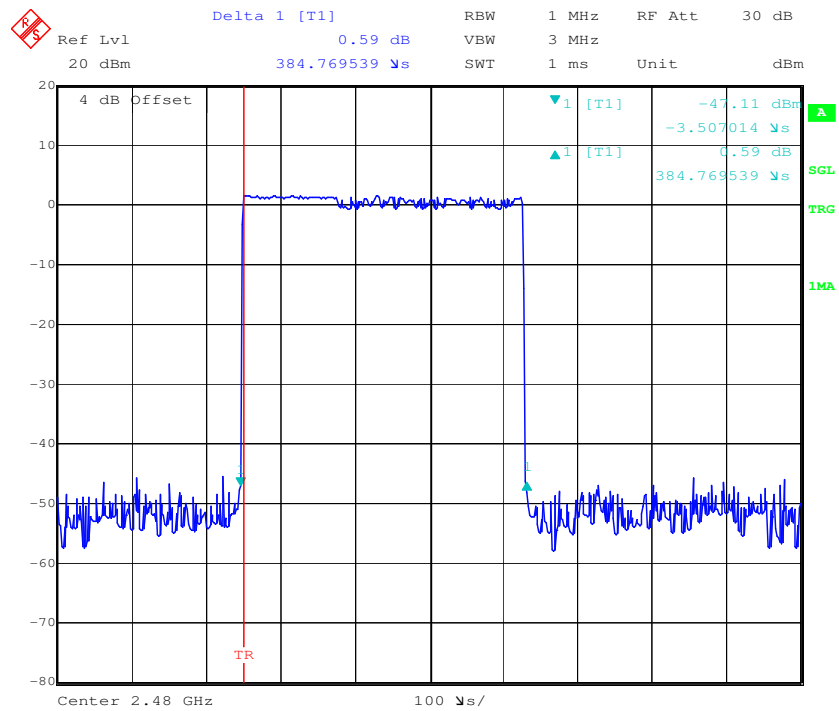
Pulse time, High Channel, DH5**EDR ($\pi/4$ -DQPSK):
Pulse time, Low Channel, 2DH1**

Pulse time, Middle Channel, 2DH1



Date: 19.APR.2016 15:19:02

Pulse time, High Channel, 2DH1



Date: 19.APR.2016 15:19:12

The screenshot shows a Keysight E67 Series Spectrum Analyzer interface. At the top left is the logo. The main display area shows a square wave signal centered at 2.402 GHz. The y-axis represents power level in dBm, ranging from -80 to 20. The x-axis represents time in microseconds (μs), with a scale of 300 μs . A red vertical line indicates the transition time (TR) at approximately -78 dBm. The signal transitions from about -50 dBm to 0 dBm. Various measurement parameters are displayed on the screen:

- Ref Lvl:** 20 dBm
- Delta 1 [T1]:** 0.17 dB
- RBW:** 1 MHz
- RF Att:** 30 dB
- VBW:** 3 MHz
- SWT:** 3 ms
- Unit:** dBm
- Offset:** 4 dB
- Center:** 2.402 GHz
- Scale:** 300 μs

On the right side, there are several status indicators: "A", "SGL", "TRG", and "1MA".

Ref Lvl 20 dBm
 Delta 1 [T1] 0.36 dB
 1.647295 ms
 RBW 1 MHz
 VBW 3 MHz
 SWT 3 ms
 RF Att 30 dB
 Unit dBm
 4 dB Offset
 -47.26 dBm
 -10.521042 V/s
 0.36 dB
 1.647295 ms
 TR
 Center 2.441 GHz
 300 V/s/

Date: 19.APR.2016 15:21:20

Ref Lvl 20 dBm

Delta 1 [T1] 3.69 dB

1.647295 ms

RBW 1 MHz

VBW 3 MHz

SWT 3 ms

RF Att 30 dB

Unit dBm

4 dB Offset

1 [T1] -51.74 dBm

1 [T1] -55.21042 dBm

3.69 dB

1.647295 ms

Center 2.48 GHz

300 ns

Date: 19.APR.2016 15:21:30

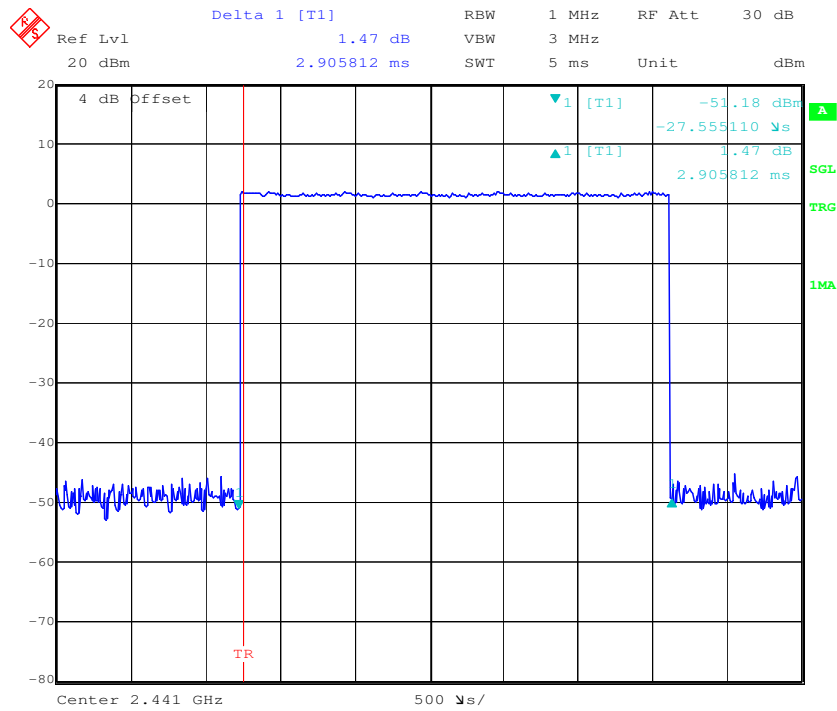
Delta 1 [T1] RBW 1 MHz RF Att 30 dB
 Ref Lvl -1.92 dB VBW 3 MHz
 20 dBm 2.905812 ms SWT 5 ms Unit dBm

4 dB Offset
 -48.84 dBm
 -27.555110 uV
 -1.92 dB
 2.905812 ms
 TR

Center 2.402 GHz 500 uV/

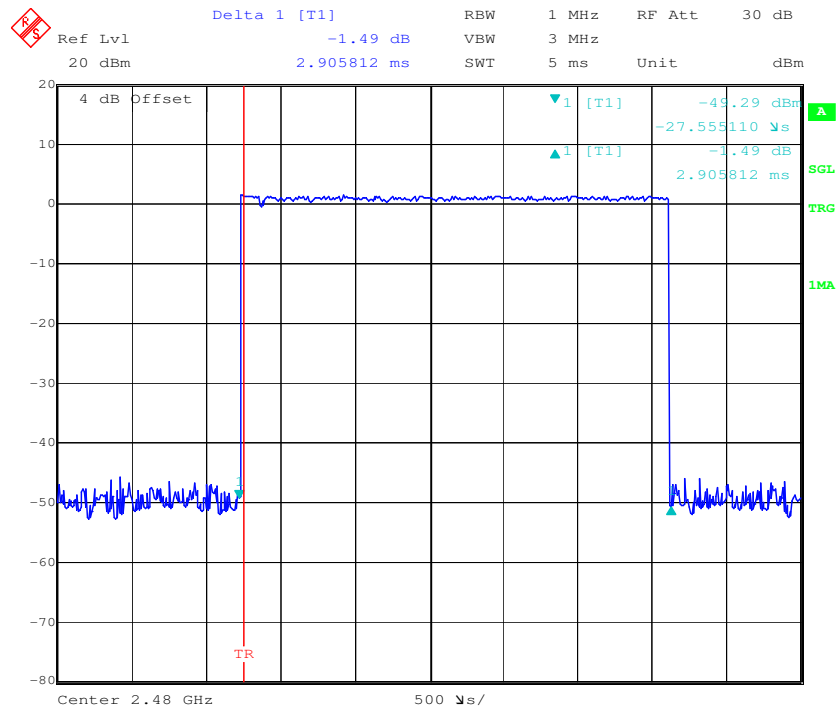
Date: 19.APR.2016 15:22:54

Pulse time, Middle Channel, 2DH5



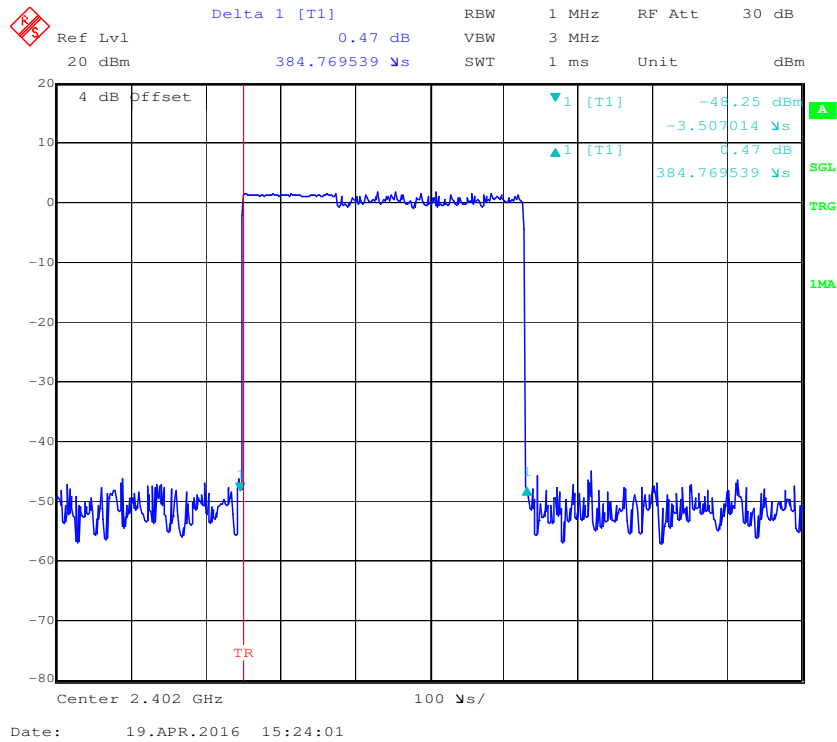
Date: 19.APR.2016 15:23:04

Pulse time, High Channel, 2DH5

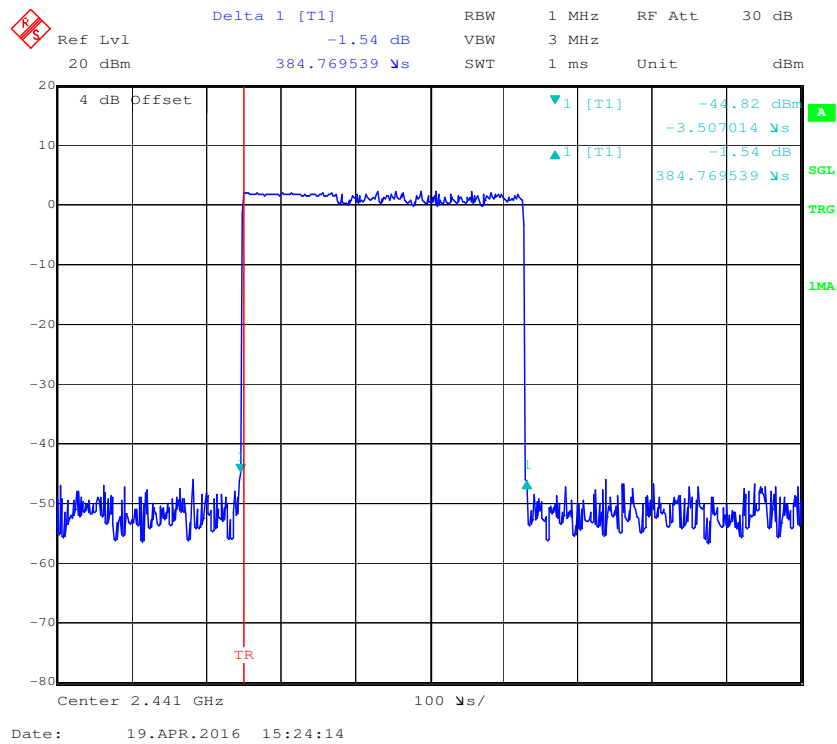


Date: 19.APR.2016 15:23:14

EDR (8DPSK): Pulse time, Low Channel, 3DH1



Pulse time, Middle Channel, 3DH1



Delta 1 [T1] RBW 1 MHz RF Att 30 dB

Ref Lvl 2.13 dB VBW 3 MHz

20 dBm 384.769539 V/s SWT 1 ms Unit dBm

4 dB Offset

-46.62 dBm

-3.507014 V/s

2.13 dB

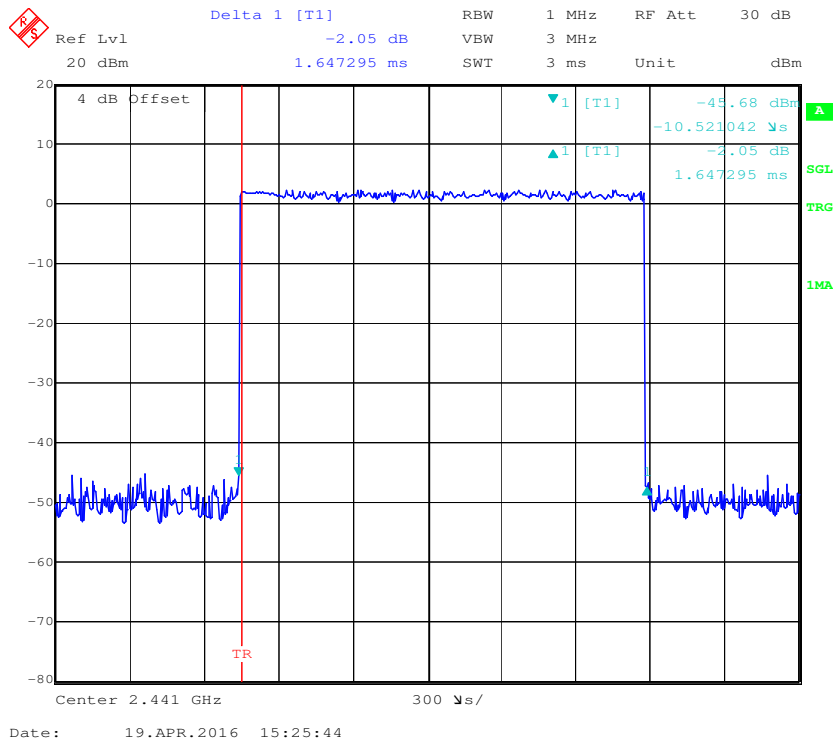
384.769539 V/s

Center 2.48 GHz 100 V/s/

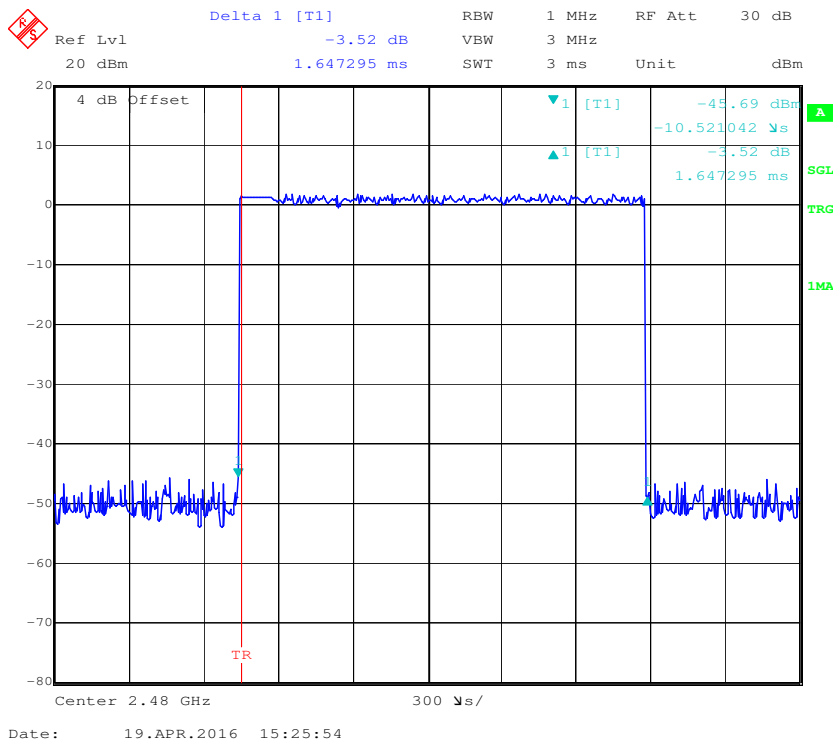
Date: 19.APR.2016 15:24:25

Ref Lvl: 20 dBm
 Delta 1 [T1]: -0.67 dB
 RBW: 1 MHz
 VBW: 3 MHz
 RF Att: 30 dB
 Unit: dBm
 4 dB Offset
 1.647295 ms
 3 ms
 -46.45 dBm
 -10.521042 dBm
 -0.67 dB
 1.647295 ms
 TR
 Center 2.402 GHz
 300 μ s/
 Date: 19.APR.2016 15:25:34

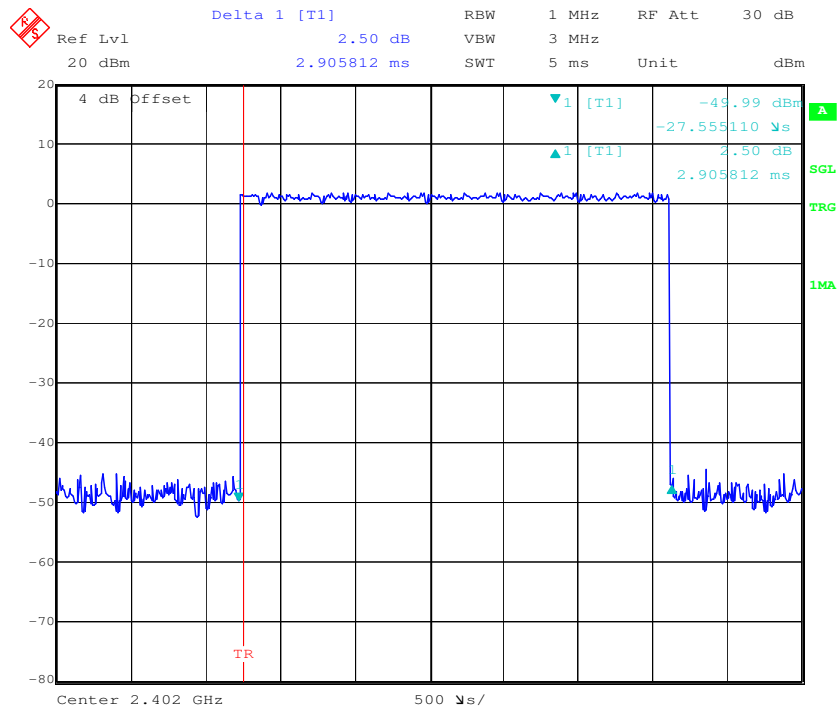
Pulse time, Middle Channel, 3DH3



Pulse time, High Channel, 3DH3

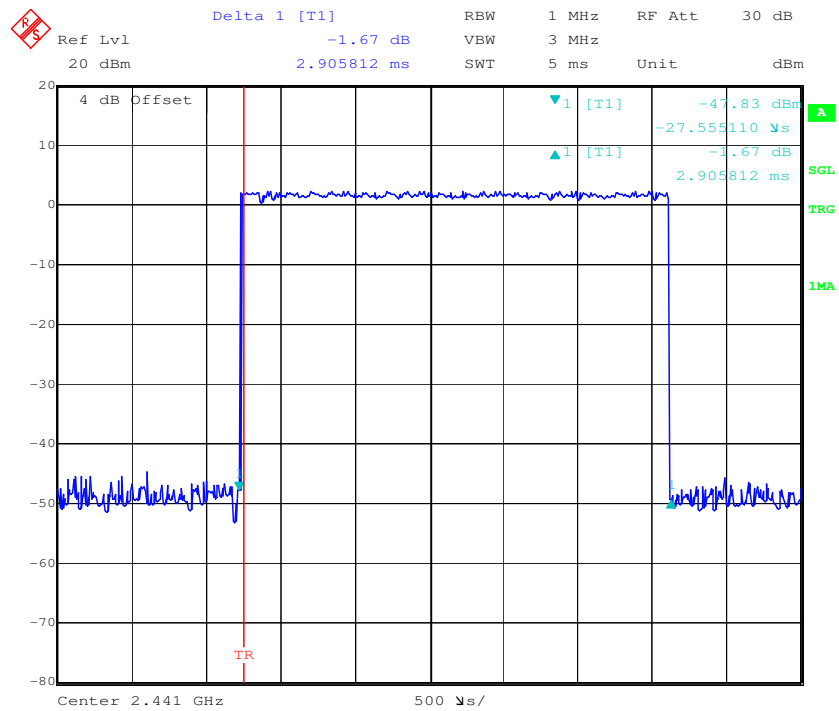


Pulse time, Low Channel, 3DH5



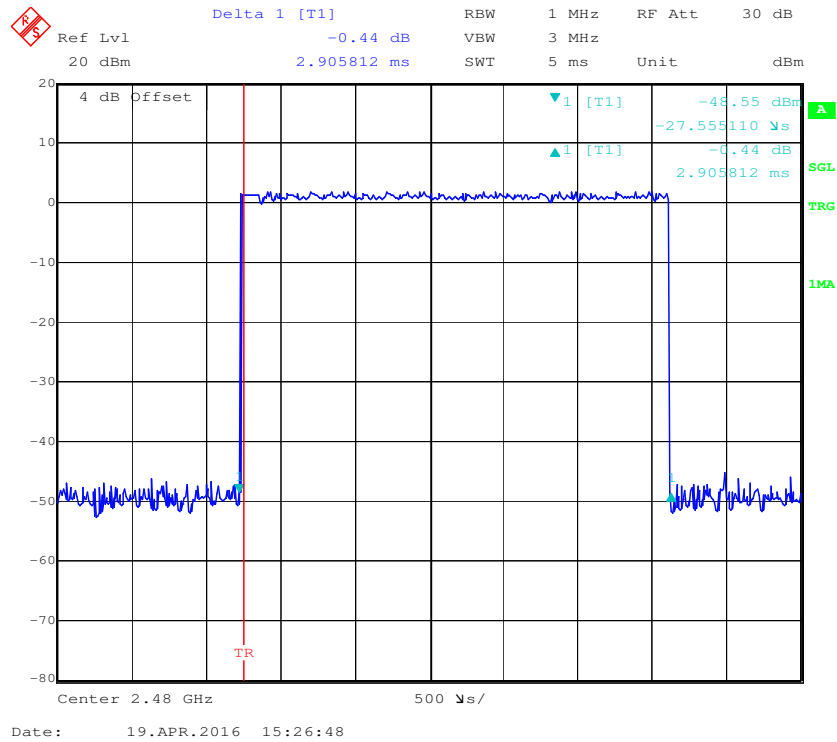
Date: 19.APR.2016 15:26:27

Pulse time, Middle Channel, 3DH5



Date: 19.APR.2016 15:26:38

Pulse time, High Channel, 3DH5



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

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Power Meter	N1912A	MY5000448	2015-12-18	2016-12-17
HP	Power Sensor	N1921A	MY54210016	2015-12-18	2016-12-17
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHEL	3dB Attenuator	5321	AU0709	2015-06-18	2016-06-18

* **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:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang on 2016-04-19.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table.

Mode	Channel	Frequency (MHz)	Peak Output Power	Limit (dBm)
			(dBm)	
BDR (GFSK)	Low	2402	2.93	30
	Middle	2441	3.18	30
	High	2480	2.93	30
EDR ($\pi/4$-DQPSK)	Low	2402	2.05	30
	Middle	2441	2.43	30
	High	2480	2.18	30
EDR (8DPSK)	Low	2402	2.30	30
	Middle	2441	2.68	30
	High	2480	2.30	30

FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

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

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2015-12-11	2016-12-11
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHEL	3dB Attenuator	5321	AU0709	2015-06-18	2016-06-18

* **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**

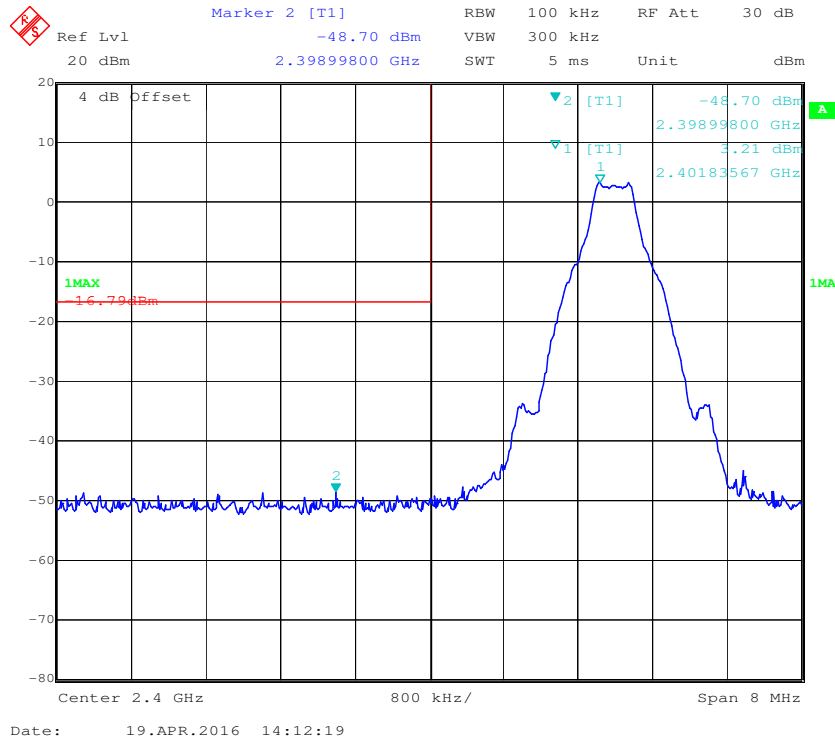
Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang on 2016-04-19.

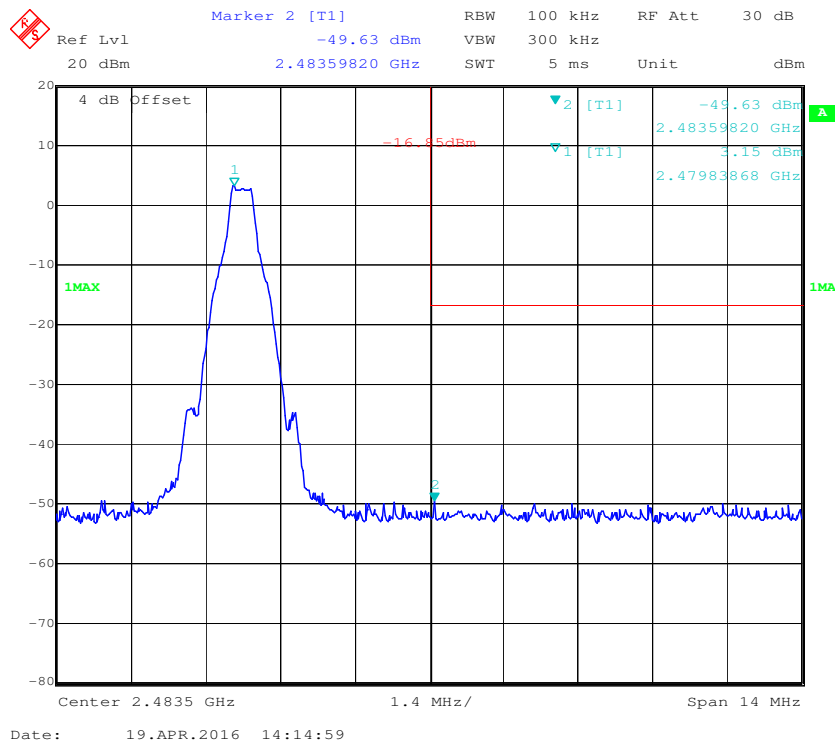
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following plots.

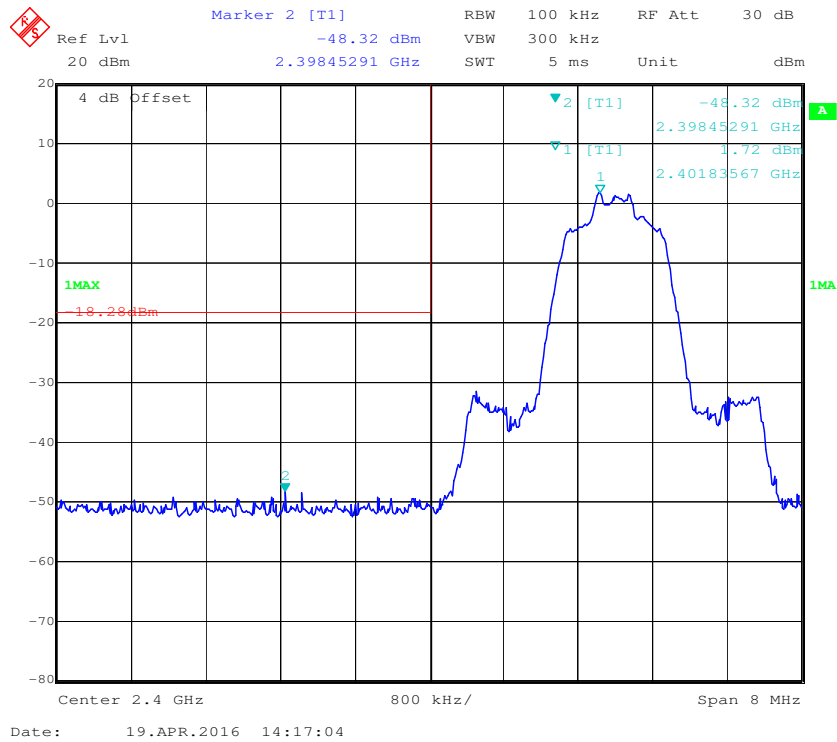
BDR (GFSK): Band Edge-Left Side



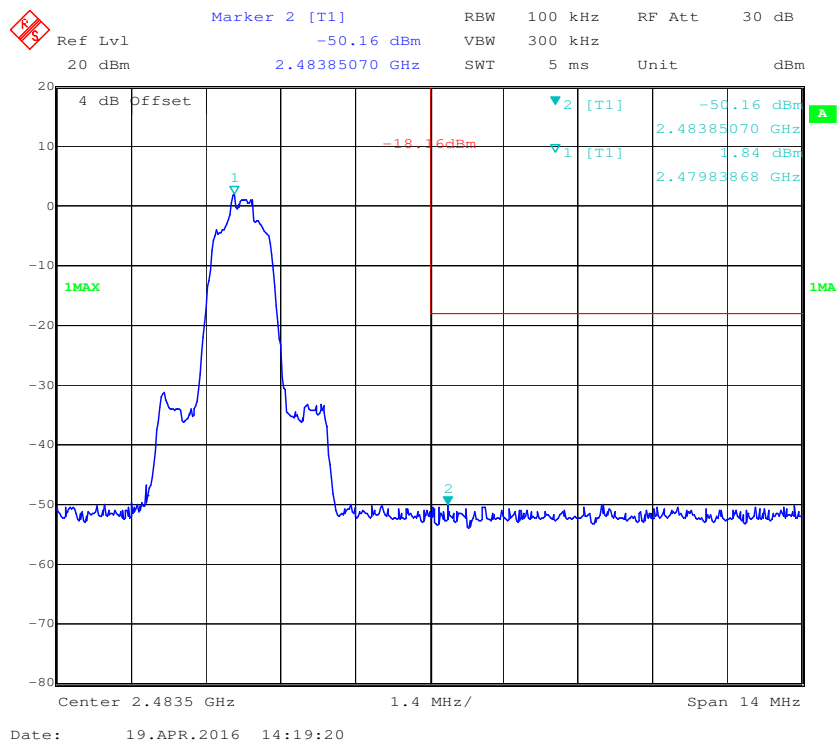
BDR (GFSK): Band Edge-Right Side

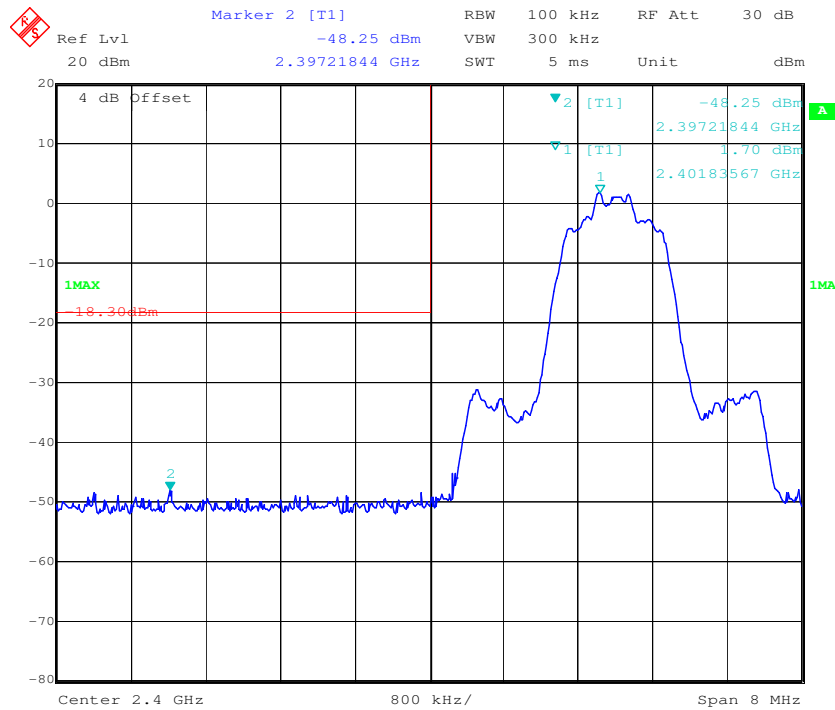


EDR ($\pi/4$ -DQPSK): Band Edge-Left Side

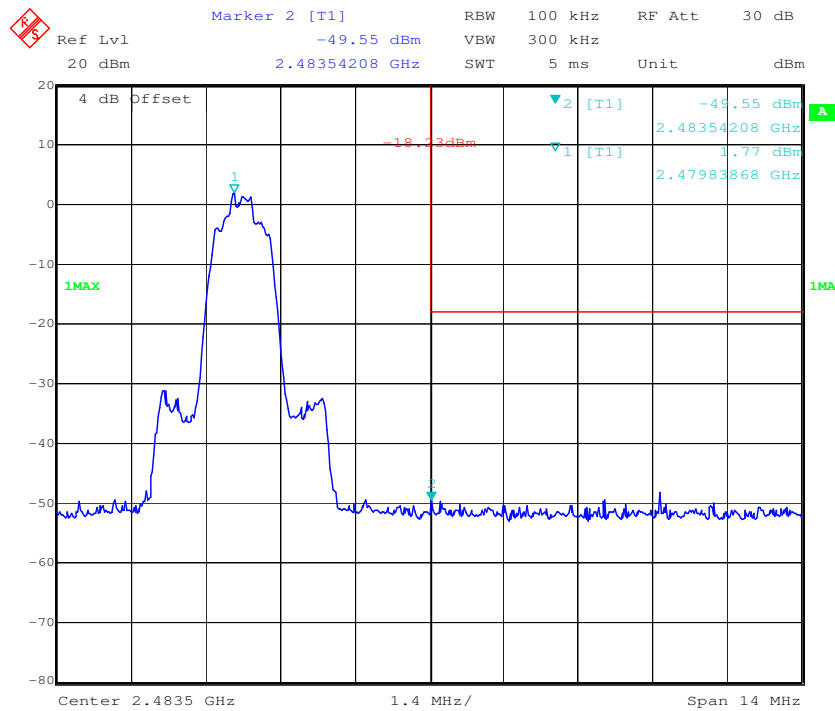


EDR ($\pi/4$ -DQPSK): Band Edge-Right Side



EDR (8DPSK): Band Edge-Left Side

Date: 19.APR.2016 14:23:25

BDR (8DPSK): Band Edge-Right Side

Date: 19.APR.2016 14:26:19

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