



FCC PART 15.247 TEST REPORT

For

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172, United States

FCC ID: YHLBLUADVANCEL4

Product Type:

6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone,

Report Type:

Original Report smart phone

Report Number: RSZ180711002-00B

Report Date: 2018-08-07

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *BLU Products, Inc.* 's product, model number: *ADVANCE L4(FCC ID: YHLBLUADVANCEL4)* or the "EUT" in this report was a *smart phone*, which was measured approximately: 12.3 cm (L) * 6.4 cm (W) *0.9 cm (H), rated with input voltage: DC 3.7 V battery or DC 5V from adapter.

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Adapter 1 Information: Model: US-NB-0500

Input: AC 100-240V, 50/60Hz, 0.2 A

Output: DC 5V, 500 mA

Adapter 2 Information: Model: US-CR-0500

Input: AC 100-240V, 50/60Hz, 0.2 A

Output: DC 5V, 500 mA

Objective

This test report is prepared on behalf of *BLU Products, Inc.* in accordance with Part 2-Subpart J, Part 15-Subparts A 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 15B JBP, Part 15.247 DTS, Part 22H /24E PCE submissions with FCC ID: YHLBLUADVANCEL4.

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.

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^{*}All measurement and test data in this report was gathered from production sample serial number: 180711002. (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2018-07-11.

Measurement Uncertainty

Parameter		Uncertainty	
Occupied Cha	nnel Bandwidth	±5%	
RF Output Power	with Power meter	±0.5dB	
RF conducted test with spectrum		±1.5dB	
AC Power Lines Conducted Emissions		±1.95dB	
Emissions,	Below 1GHz	±4.75dB	
Radiated	Above 1GHz	±4.88dB	
Temp	erature	±3°C	
Humidity		±6%	
Supply	voltages	±0.4%	

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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., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

No exercise software was made to the EUT tested.

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
/	/	/	/

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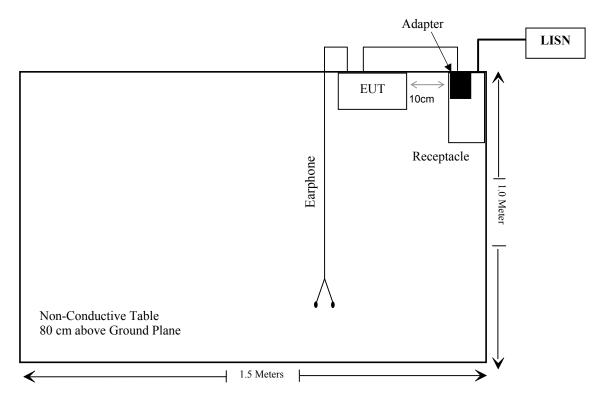
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.0	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), §1.1307 (b) (1)& §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
\$15.205, \$15.209 & \$15.247(d)	Radiated Emissions	Compliance
§15.247(a)(1)	20 dB Emission Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	Peak Output Power Measurement	Compliance
§15.247(d)	Band edges	Compliance

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Conducted Emissions Test							
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2017-08-04	2018-08-04		
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2017-12-21	2018-12-21		
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2018-05-21	2018-11-19		
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR		
N/A	Conducted Emission Cable	N/A	UF A210B-1- 0720-504504	2018-05-12	2018-11-12		
	Radia	ated Emission T	est				
A.H.System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17		
Rohde & Schwarz	Signal Analyzer	FSEM	845987/005	2018-04-24	2019-04-24		
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2018-05-21	2019-05-21		
НР	Amplifier	HP8447E	1937A01046	2018-05-21	2018-11-19		
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017-12-22	2020-12-21		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2018-01-11	2019-01-11		
Ducommun technologies	RF Cable	UFA210A-1- 4724-30050U	MFR64369 223410-001	2018-05-21	2018-11-19		
Ducommun technologies	RF Cable	104PEA	218124002	2018-05-21	2018-11-19		
Ducommun technologies	RF Cable	RG-214	1	2018-05-21	2018-11-19		
Ducommun technologies	RF Cable	RG-214	2	2018-05-22	2018-11-22		
Ducommun Technologies	Horn Antenna	ARH-4223- 02 ALN-	1007726-04	2017-12-29	2020-12-28		
Ducommun Technologies	Pre-amplifier	22093530-01	991373-01	2017-08-03	2018-08-03		
Ducommun Technologies	Pre-amplifier	ALN- 22093530-01	991373-01	2018-08-03	2019-08-03		
Sinoscite	Notch Filter	BSF2402- 2480MN- 0898-001	N/A	2018-05-21	2019-05-21		
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR		

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^{*} 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).

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.

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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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- 1. f(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	Maximum Tune-up power		Calculated Distance	Calculated	Threshold	SAR Test
(MHz)	(dBm)	(mW)	(mm)	Value	(1-g SAR)	Exclusion
2480	0.5	1.12	5	0.35	3.0	Yes

Result: No Standalone SAR test is required

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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, which was permanently attached and the antenna gain is 1.3 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)

EUT Setup



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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

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.

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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:

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Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207,

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

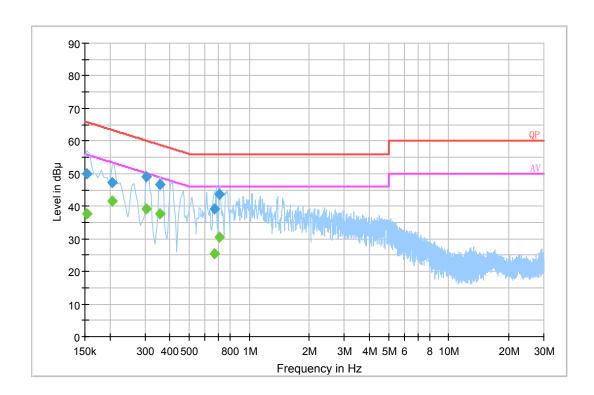
Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2018-08-07.

EUT operation mode: Transmitting & charging (the worst case is 8-DPSK Mode, Low channel)

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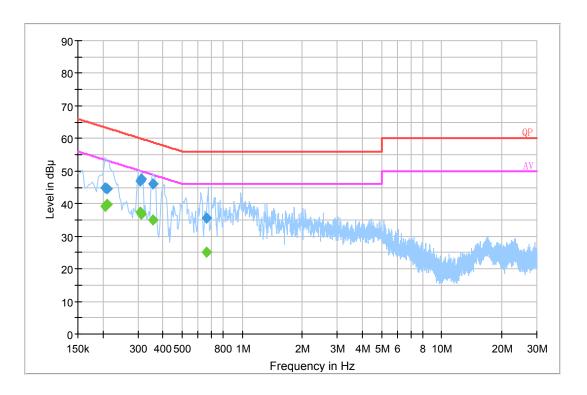
Adapter 1 AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.154000	49.9	20.1	65.8	15.9	QP
0.205500	47.3	20.1	63.4	16.1	QP
0.305350	48.9	20.1	60.1	11.2	QP
0.356630	46.8	20.1	58.8	12.0	QP
0.671770	39.3	19.9	56.0	16.7	QP
0.707290	43.7	19.9	56.0	12.3	QP
0.154000	37.8	20.1	55.8	18.0	Ave.
0.205500	41.6	20.1	53.4	11.8	Ave.
0.305350	39.3	20.1	50.1	10.8	Ave.
0.356630	37.6	20.1	48.8	11.2	Ave.
0.671770	25.3	19.9	46.0	20.7	Ave.
0.707290	30.6	19.9	46.0	15.4	Ave.

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AC 120V/60 Hz, Neutral

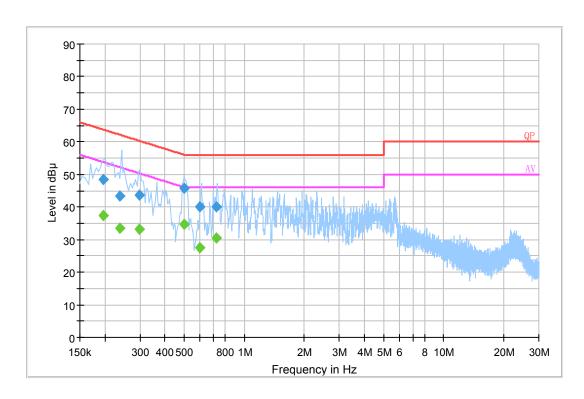


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.205500	44.9	20.1	63.4	18.5	QP
0.209500	44.6	20.1	63.2	18.6	QP
0.306530	46.8	20.1	60.1	13.3	QP
0.313230	47.6	20.1	59.9	12.3	QP
0.356630	46.0	20.1	58.8	12.8	QP
0.663890	35.7	19.9	56.0	20.3	QP
0.205500	39.3	20.1	53.4	14.1	Ave.
0.209500	39.9	20.1	53.2	13.3	Ave.
0.306530	37.5	20.1	50.1	12.6	Ave.
0.313230	36.9	20.1	49.9	13.0	Ave.
0.356630	35.1	20.1	48.8	13.7	Ave.
0.663890	25.0	19.9	46.0	21.0	Ave.

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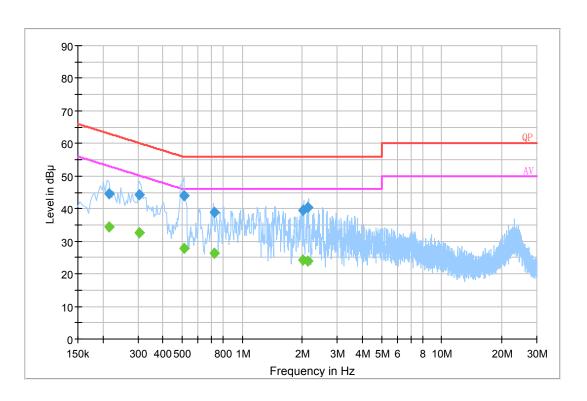
Adapter 2 AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.197500	48.4	20.1	63.7	15.3	QP
0.237500	43.4	20.1	62.2	18.8	QP
0.297500	43.7	20.1	60.3	16.6	QP
0.498530	45.7	20.1	56.0	10.3	QP
0.600850	40.0	20.0	56.0	16.0	QP
0.723050	40.1	19.9	56.0	15.9	QP
0.197500	37.4	20.1	53.7	16.3	Ave.
0.237500	33.5	20.1	52.2	18.7	Ave.
0.297500	33.2	20.1	50.3	17.1	Ave.
0.498530	34.7	20.1	46.0	11.3	Ave.
0.600850	27.4	20.0	46.0	18.6	Ave.
0.723050	30.4	19.9	46.0	15.6	Ave.

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AC 120V/60 Hz, Neutral



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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.214501	44.4	20.1	63.0	18.6	QP
0.305410	44.2	20.1	60.1	15.9	QP
0.510350	44.0	20.1	56.0	12.0	QP
0.723230	38.8	19.9	56.0	17.2	QP
2.027430	39.5	20.0	56.0	16.5	QP
2.141750	40.2	20.0	56.0	15.8	QP
0.214501	34.5	20.1	53.0	18.5	Ave.
0.305410	32.5	20.1	50.1	17.6	Ave.
0.510350	27.7	20.1	46.0	18.3	Ave.
0.723230	26.3	19.9	46.0	19.7	Ave.
2.027430	24.1	20.0	46.0	21.9	Ave.
2.141750	23.9	20.0	46.0	22.1	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)

EUT Setup

Below 1 GHz:



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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.

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

Frequency Range RBW		Video B/W	IF B/W	Measurement	
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP	
Above 1 GHz	1 MHz	3 MHz	/	PK	
Above I GHZ	1 MHz	10 Hz	/	Average	

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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:

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 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>

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:	24~25 ℃
Relative Humidity:	50~56 %
ATM Pressure:	100.9~101.0 kPa

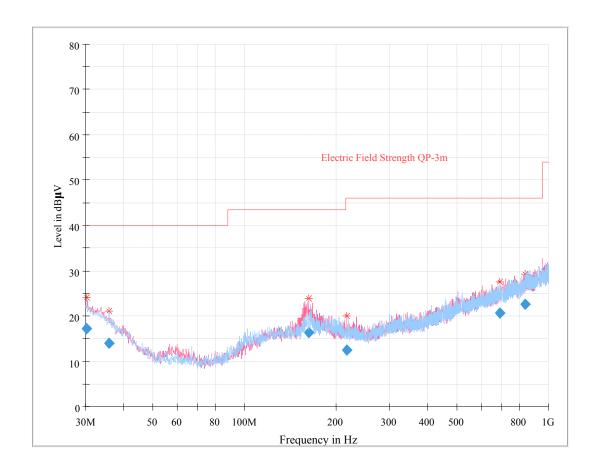
The testing was performed by Haiguo Li on 2018-07-15 and 2018-08-07.

EUT operation mode: Transmitting (Scan with GFSK, $\pi/4$ -DQPSK, 8-DPSK mode, the worst case is 8-DPSK Mode)

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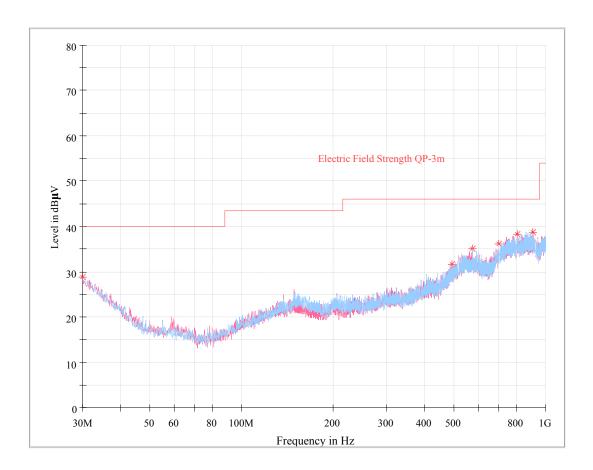
Adapter 1: 30 MHz~1 GHz: (the worst case is 8-DPSK Mode, Low channel)



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
30.129774	17.28	248.0	V	63.0	-4.8	40.00	22.72
35.906875	13.96	313.0	Н	315.0	-8.2	40.00	26.04
162.274375	16.32	123.0	V	78.0	-11.2	43.50	27.18
216.918000	12.45	131.0	V	320.0	-10.6	46.00	33.55
693.296000	20.58	335.0	Н	320.0	-1.8	46.00	25.42
834.722875	22.61	183.0	Н	194.0	0.1	46.00	23.39

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Adapter 2: 30 MHz~1 GHz: (the worst case is 8-DPSK Mode, Low channel)



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
30.000000	28.74	102.0	V	292.0	0.8	40.00	11.26
492.205000	31.70	202.0	V	178.0	2.9	46.00	14.30
574.170000	34.95	102.0	Н	187.0	5.0	46.00	11.05
703.543750	36.22	102.0	Н	160.0	7.1	46.00	9.78
805.393750	38.33	102.0	V	264.0	9.2	46.00	7.67
910.396250	38.77	202.0	V	285.0	9.8	46.00	7.23

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1 GHz - 25 GHz:

	Receiver		m . 11	Rx Antenna		G + IF +	Corrected	-	
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height	Polar (H/V)	Corrected Factor (dB/m)	Corrected Limit Amplitude (dBμV/m)		Margin (dB)
			Low (Channe	el (2402	2 MHz)			
2402.00	63.82	PK	18	1.6	Н	33.92	97.74	/	/
2402.00	52.31	Ave.	18	1.6	Н	33.92	86.23	/	/
2402.00	61.10	PK	61	2.1	V	33.92	95.02	/	/
2402.00	50.43	Ave.	61	2.1	V	33.92	84.35	/	/
2371.10	27.18	PK	11	1.1	Н	33.92	61.10	74	12.90
2371.10	13.28	Ave.	11	1.1	Н	33.92	47.20	54	6.80
2492.33	27.38	PK	33	2.2	Н	34.08	61.46	74	12.54
2492.33	12.79	Ave.	33	2.2	Н	34.08	46.87	54	7.13
4804.00	49.82	PK	160	2.2	Н	5.84	55.66	74	18.34
4804.00	35.20	Ave.	160	2.2	Н	5.84	41.04	54	12.96
	Middle Channel (2441 MHz)								
2441.00	60.32	PK	299	1.8	Н	33.92	94.24	/	/
2441.00	49.16	Ave.	299	1.8	Н	33.92	83.08	/	/
2441.00	56.78	PK	358	1.5	V	33.92	90.70	/	/
2441.00	45.11	Ave.	358	1.5	V	33.92	79.03	/	/
4882.00	49.51	PK	26	1.8	Н	6.21	55.72	74	18.28
4882.00	35.37	Ave.	26	1.8	Н	6.21	41.58	54	12.42
			High	Channe	el (248	0 MHz)			
2480.00	58.89	PK	159	1.8	Н	34.08	92.97	/	/
2480.00	48.00	Ave.	159	1.8	Н	34.08	82.08	/	/
2480.00	56.82	PK	174	1.3	V	34.08	90.90	/	/
2480.00	45.47	Ave.	174	1.3	V	34.08	79.55	/	/
2343.19	27.38	PK	168	1.6	Н	33.83	61.21	74	12.79
2343.19	13.65	Ave.	168	1.6	Н	33.83	47.48	54	6.52
2498.81	26.77	PK	305	2.4	Н	34.08	60.85	74	13.15
2498.81	13.53	Ave.	305	2.4	Н	34.08	47.61	54	6.39
4960.00	51.87	PK	329	1.4	Н	7.82	59.69	74	14.31
4960.00	37.35	Ave.	329	1.4	Н	7.82	45.17	54	8.83

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

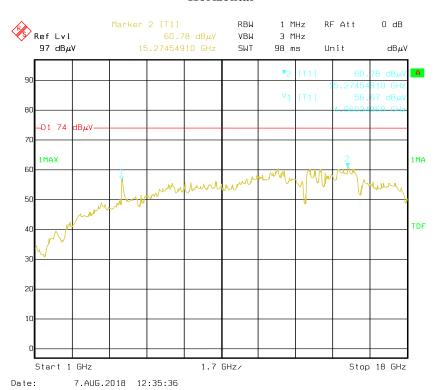
Corrected Amplitude = Corrected Factor + Reading Margin = Limit - Corrected. Amplitude

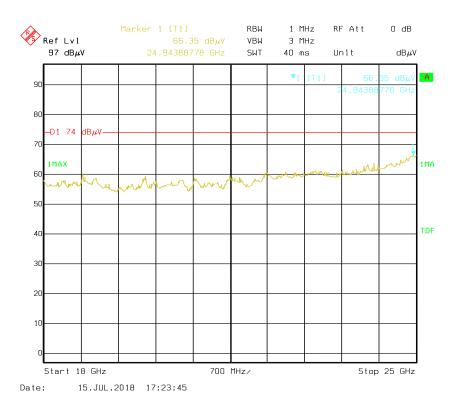
The other spurious emission which is 20dB to the limit was not recorded. And for the pre-scan is performed with the 2400-2483.5MHz band filter.

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Pre-scan with High channel Peak Horizontal

Report No.: RSZ180711002-00B

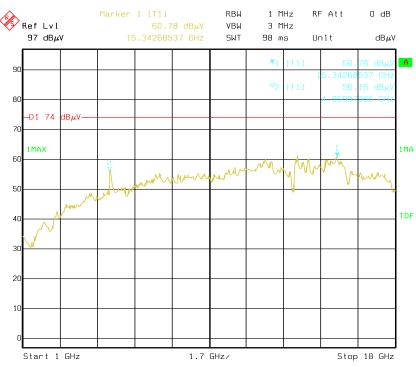




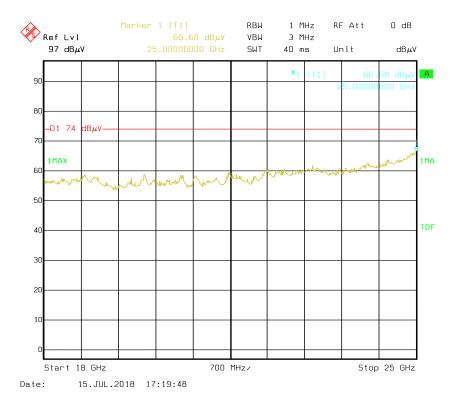
FCC Part 15.247 Page 25 of 68

Vertical

Report No.: RSZ180711002-00B



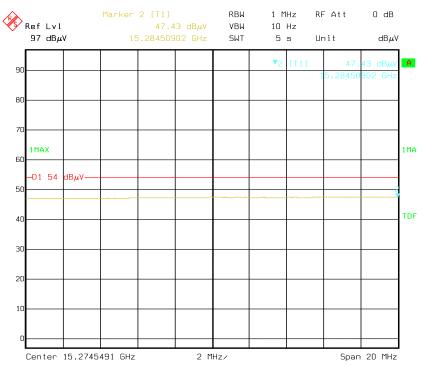
Date: 7.AUG.2018 12:46:15



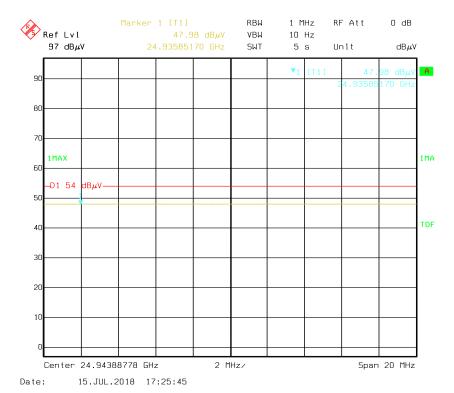
FCC Part 15.247 Page 26 of 68

Pre-scan for Average Horizontal

Report No.: RSZ180711002-00B



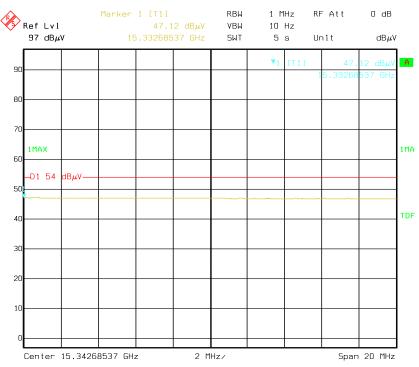
Date: 7.AUG.2018 12:38:07



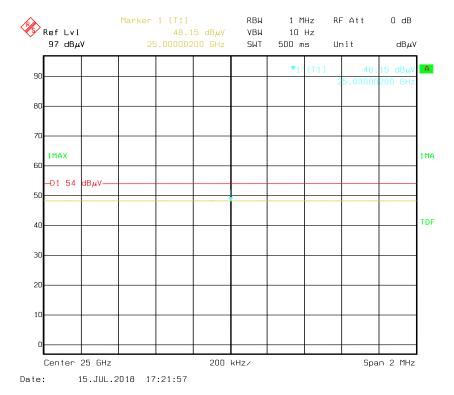
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Vertical

Report No.: RSZ180711002-00B







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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.: RSZ180711002-00B

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Haiguo Li on 2018-07-12.

EUT operation mode: Transmitting

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

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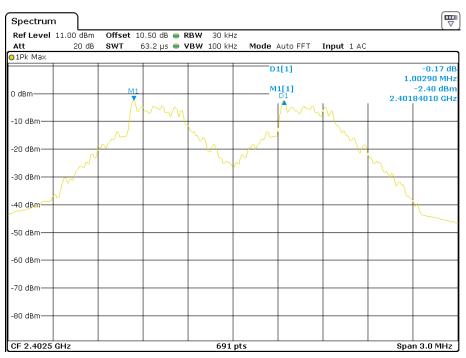
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	≥Limit (MHz)	Result
	Low	2402	1.003	0.561	Pass
	Adjacent	2403	1.003	0.561	
BDR	Middle	2441	1.003	0.567	Pass
(GFSK)	Adjacent	2442	1.003	0.367	Pass
	High	2480	1.002	0.565	Pass
	Adjacent	2479	1.003	0.565	
	Low	2402	1.002	0.874	Pass
	Adjacent	2403	1.003		
EDR	Middle	2441	1.002	0.874	Pass
(π/4-DQPSK)	Adjacent	2442	1.003		
	High	2480	1.002	0.871	Pass
	Adjacent	2479	1.003		
	Low	2402	1.002	0.851	Pass
	Adjacent	2403	1.003		
EDR (8DPSK)	Middle	2441	1.003	0.854	Pass
	Adjacent	2442	1.003		
	High	2480	1.002	0.054	Pass
	Adjacent	2479	1.003	0.854	rass

Note: Limit = 20 dB bandwidth *2/3

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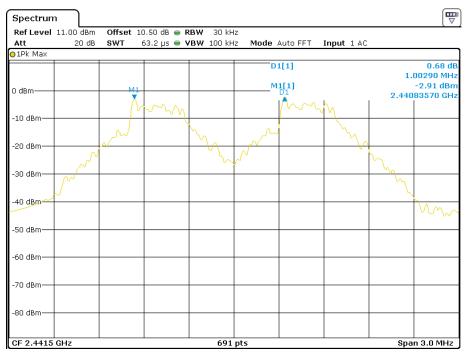
BDR (GFSK): Low Channel

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 16:49:34

BDR (GFSK): Middle Channel

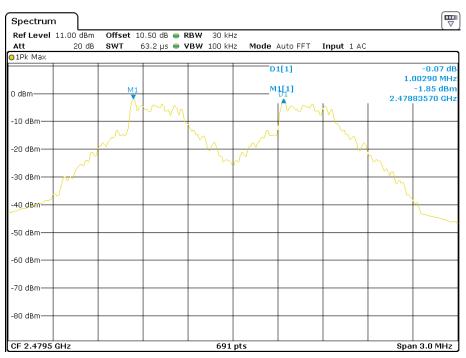


Date: 12.JUL.2018 16:50:20

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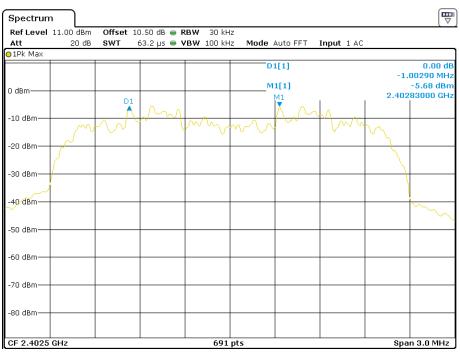
BDR (GFSK): High Channel

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 16:51:02

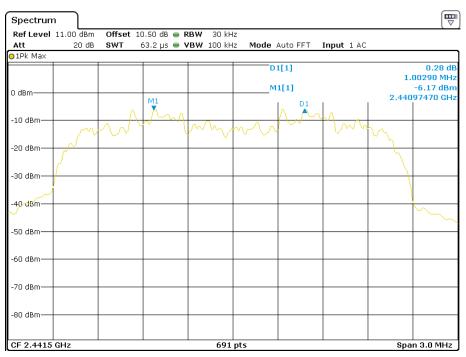
EDR ($\pi/4$ -DQPSK): Low Channel



Date: 12.JUL.2018 16:52:25

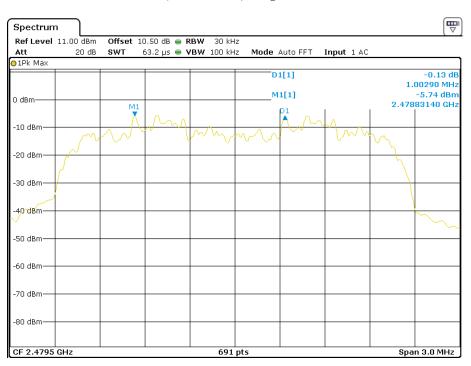
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EDR (π /4-DQPSK): Middle Channel



Date: 12.JUL.2018 16:53:08

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

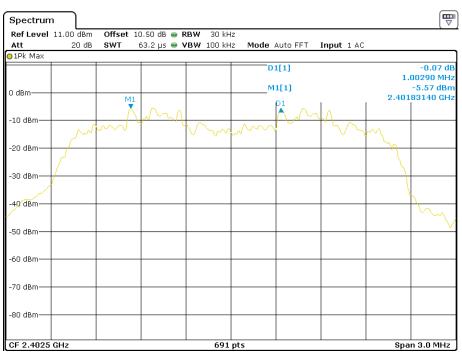


Date: 12.JUL.2018 16:53:40

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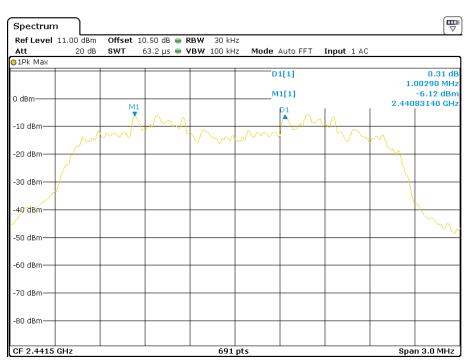
EDR (8DPSK): Low Channel

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 16:54:23

EDR (8DPSK): Middle Channel

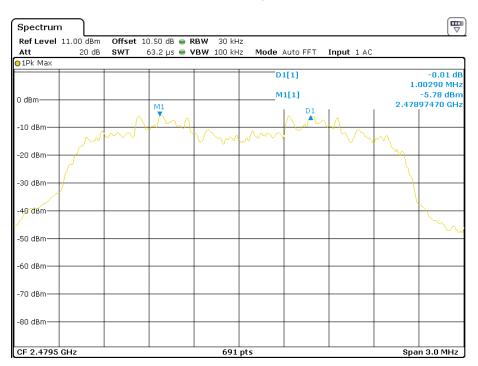


Date: 12.JUL.2018 16:55:02

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EDR (8DPSK): High Channel

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 16:55:43

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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.: RSZ180711002-00B

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 Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Haiguo Li on 2018-07-12.

EUT operation mode: Transmitting

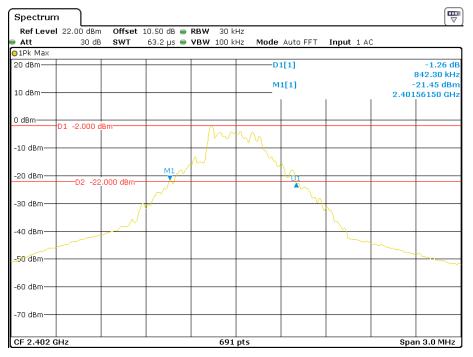
Test Result: Compliance. Please refer to following table and plots.

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Mode	Channel Frequency (MHz)		20 dB Emission Bandwidth (MHz)	
BDR (GFSK)	Low	2402	0.842	
	Middle	2441	0.851	
	High	2480	0.847	
EDR (π/4-DQPSK)	Low	2402	1.311	
	Middle	2441	1.311	
	High	2480	1.307	
EDR (8DPSK)	Low	2402	1.276	
	Middle	2441	1.281	
	High	2480	1.281	

Report No.: RSZ180711002-00B

BDR (GFSK): Low Channel

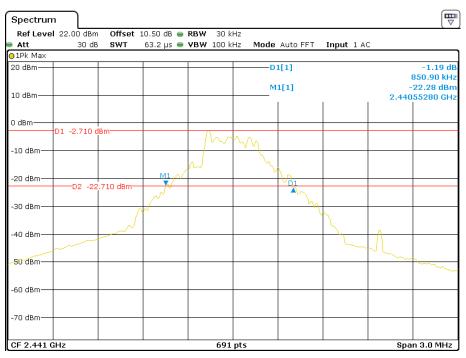


Date: 12.JUL.2018 14:14:05

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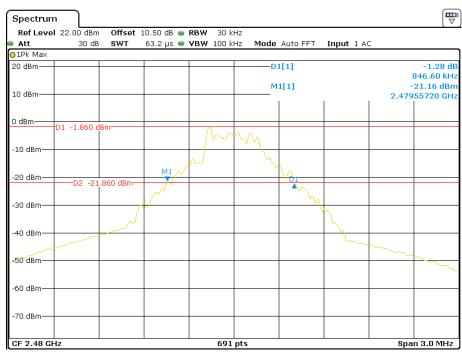
BDR (GFSK): Middle Channel

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 14:16:41

BDR (GFSK): High Channel

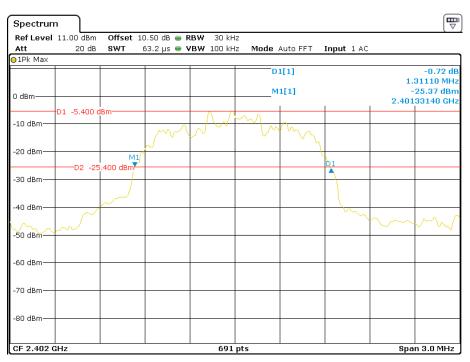


Date: 12.JUL.2018 14:22:51

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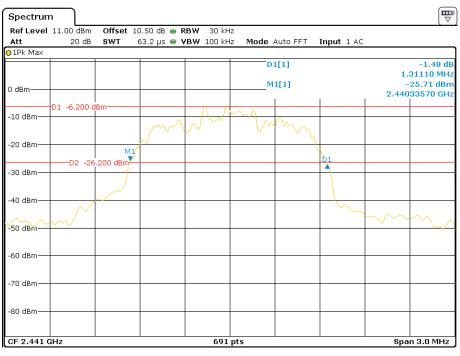
EDR ($\pi/4$ -DQPSK): Low Channel

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 16:17:42

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

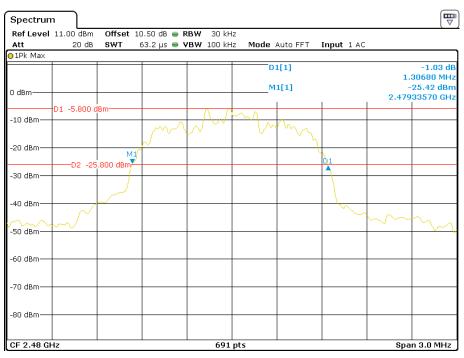


Date: 12.JUL.2018 16:23:27

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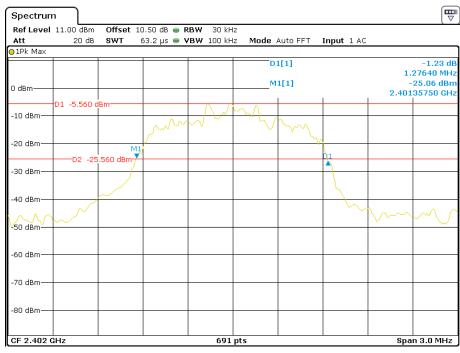
EDR ($\pi/4$ -DQPSK): High Channel

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 16:24:48

EDR (8DPSK): Low Channel

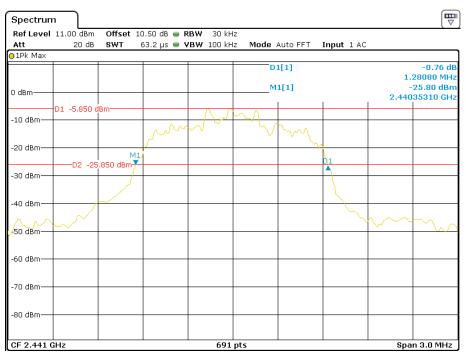


Date: 12.JUL.2018 16:26:01

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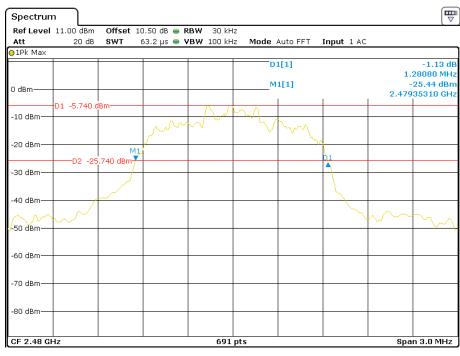
EDR (8DPSK): Middle Channel

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 16:27:52

EDR (8DPSK): High Channel



Date: 12.JUL.2018 16:29:17

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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.: RSZ180711002-00B

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 Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Haiguo Li on 2018-07-12.

EUT operation mode: Transmitting

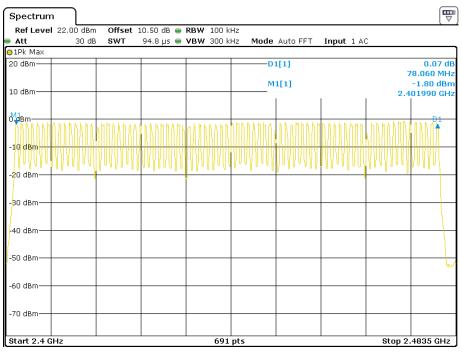
Test Result: Compliance. Please refer to following table and plots.

Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥15
EDR (π/4-DQPSK)	2400-2483.5	79	≥15
EDR (8DPSK)	2400-2483.5	79	≥15

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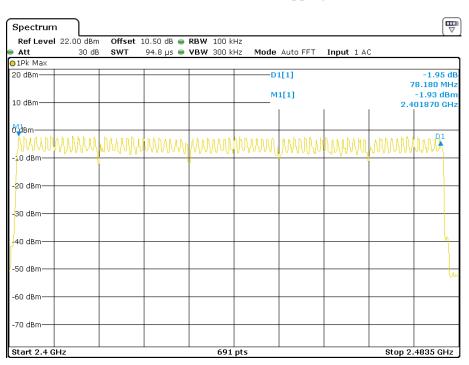
BDR (GFSK): Number of Hopping Channels

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 13:56:05

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

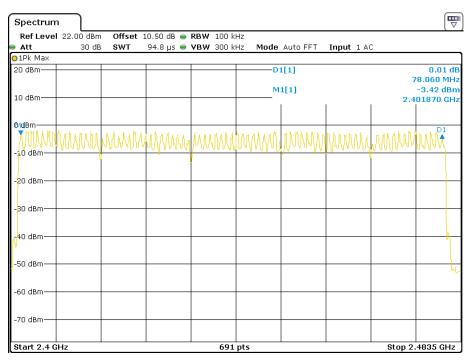


Date: 12.JUL.2018 14:03:47

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EDR (8DPSK): Number of Hopping Channels

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 14:08:33

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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.: RSZ180711002-00B

Test Procedure

- 1. The EUT was worked in channel hopping.
- 2. Set the RBW to: 1MHz.
- 3. Set the VBW $> 3 \times RBW$.
- 4. Set the span to 0Hz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Recorded the time of single pulses

Test Data

Environmental Conditions

Temperature:	24~25 ℃	
Relative Humidity:	52~56 %	
ATM Pressure:	100.9~101.0 kPa	

The testing was performed by Haiguo Li from 2018-07-14 to 2018-08-01.

EUT operation mode: Transmitting

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

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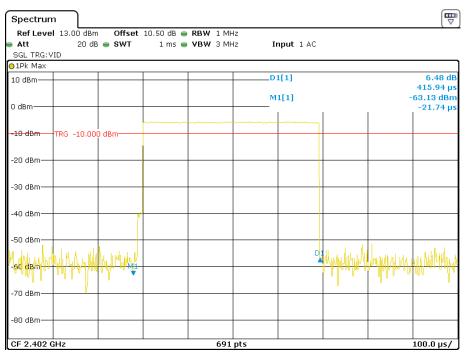
Mode	e	Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result	
		Low	0.416	0.133	0.4	Pass	
	DII 1	Middle	0.414	0.133	0.4	Pass	
	DH 1	High	0.414	0.133	0.4	Pass	
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S					
		Low	1.680	0.269	0.4	Pass	
BDR	DII 2	Middle	1.671	0.267	0.4	Pass	
(GFSK)	DH 3	High	1.671	0.267	0.4	Pass	
		Note:	DH3:Dwell time = P	Pulse time*(1600/	4/79)*31.6S		
		Low	2.935	0.313	0.4	Pass	
	DIL 5	Middle	2.935	0.313	0.4	Pass	
	DH 5	High	2.949	0.315	0.4	Pass	
		Note:	DH5:Dwell time = P	Pulse time*(1600/	6/79)*31.6S		
		Low	0.409	0.131	0.4	Pass	
	2777.1	Middle	0.409	0.131	0.4	Pass	
	2DH 1	High	0.410	0.131	0.4	Pass	
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S					
	2DH 3	Low	1.671	0.267	0.4	Pass	
EDR		Middle	1.680	0.269	0.4	Pass	
$(\pi/4\text{-DQPSK})$		High	1.671	0.267	0.4	Pass	
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S					
	2DH 5	Low	2.949	0.315	0.4	Pass	
		Middle	2.949	0.315	0.4	Pass	
		High	2.949	0.315	0.4	Pass	
		Note:2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S					
	3DH 1	Low	0.404	0.129	0.4	Pass	
		Middle	0.404	0.129	0.4	Pass	
EDR (8DPSK)		High	0.401	0.128	0.4	Pass	
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S					
	3DH 3	Low	1.667	0.267	0.4	Pass	
		Middle	1.667	0.267	0.4	Pass	
		High	1.667	0.267	0.4	Pass	
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S					
	3DH 5	Low	2.957	0.315	0.4	Pass	
		Middle	2.949	0.315	0.4	Pass	
		High	2.942	0.314	0.4	Pass	
		Note: 3	BDH5:Dwell time = 1	Pulse time*(1600)	/6/79)*31.6S		

Report No.: RSZ180711002-00B

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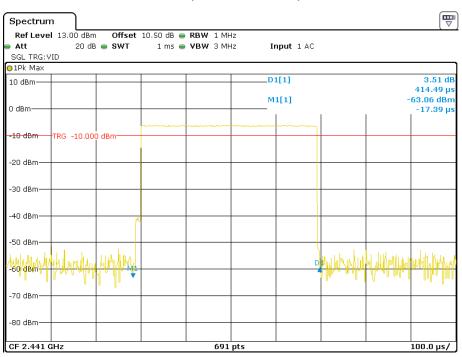
BDR (GFSK):
Pulse time, Low Channel, DH1

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 10:25:11

Pulse time, Middle Channel, DH1

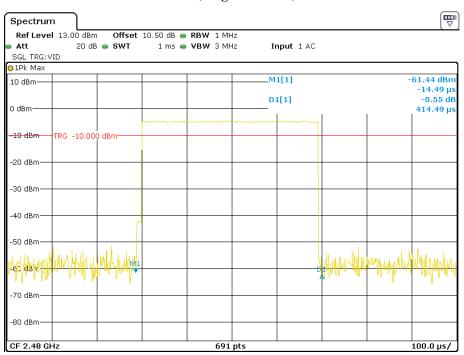


Date: 14.JUL.2018 10:28:32

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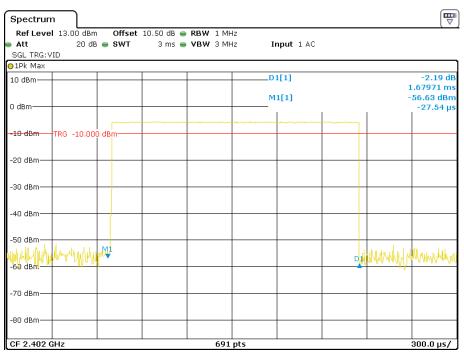
Pulse time, High Channel, DH1

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 10:29:00

Pulse time, Low Channel, DH3

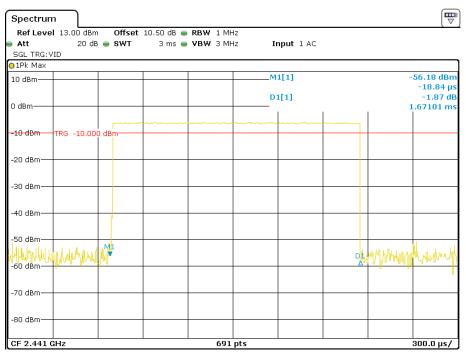


Date: 14.JUL.2018 10:54:03

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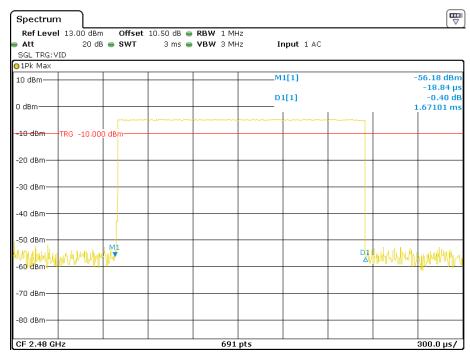
Pulse time, Middle Channel, DH3

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 10:54:49

Pulse time, High Channel, DH3

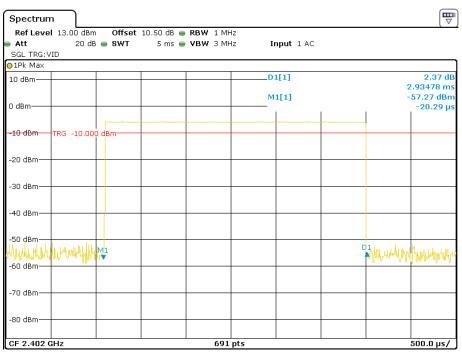


Date: 14.JUL.2018 10:55:02

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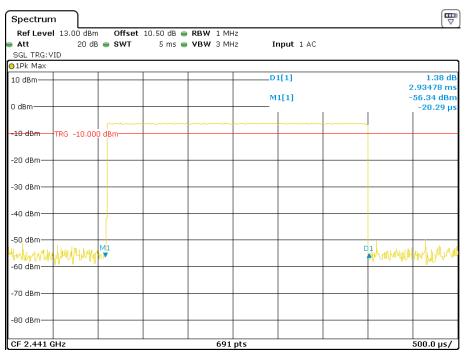
Pulse time, Low Channel, DH5

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 11:12:22

Pulse time, Middle Channel, DH5

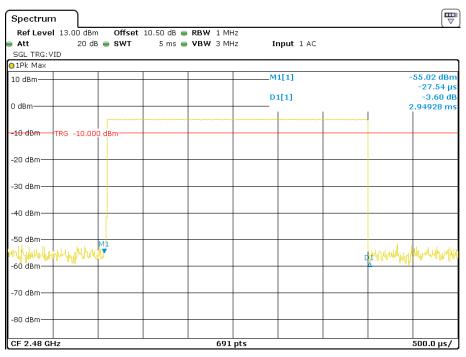


Date: 14.JUL.2018 11:12:37

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Pulse time, High Channel, DH5

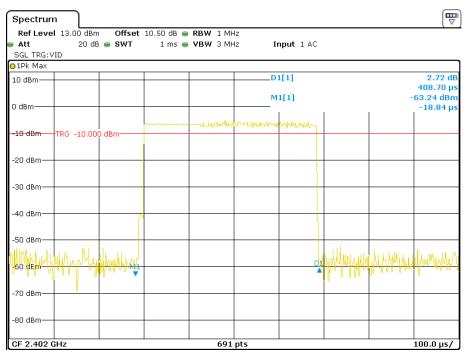
Report No.: RSZ180711002-00B



Date: 14.JUL.2018 11:13:00

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

Pulse time, Low Channel, 2DH1

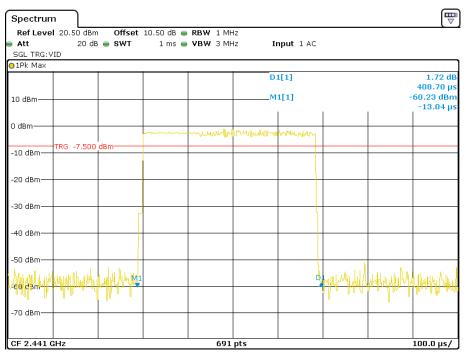


Date: 14.JUL.2018 10:35:31

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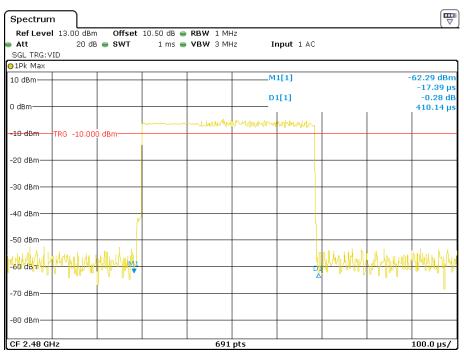
Pulse time, Middle Channel, 2DH1

Report No.: RSZ180711002-00B



Date: 1.AUG.2018 09:27:39

Pulse time, High Channel, 2DH1

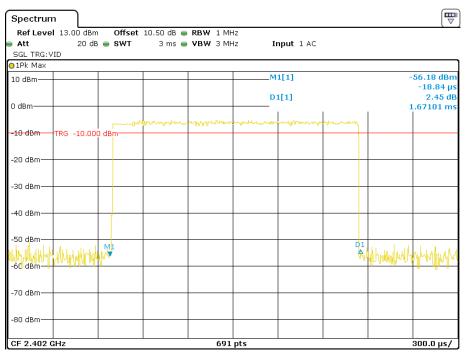


Date: 14.JUL.2018 10:36:21

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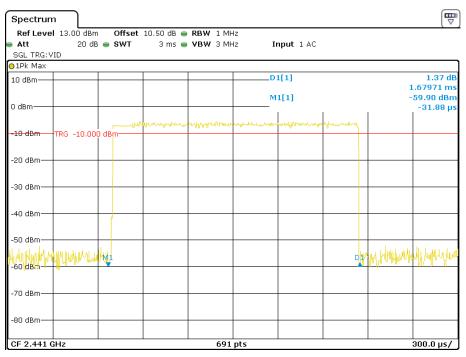
Pulse time, Low Channel, 2DH3

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 10:55:53

Pulse time, Middle Channel, 2DH3

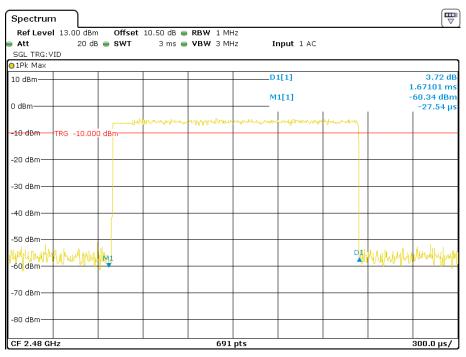


Date: 14.JUL.2018 10:56:19

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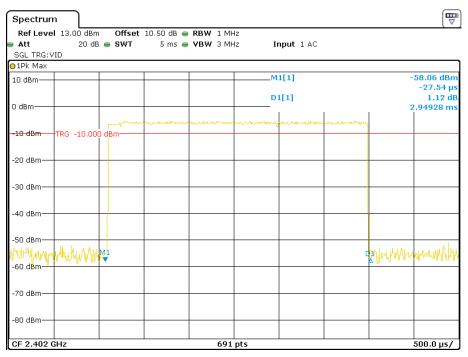
Pulse time, High Channel, 2DH3

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 10:56:48

Pulse time, Low Channel, 2DH5

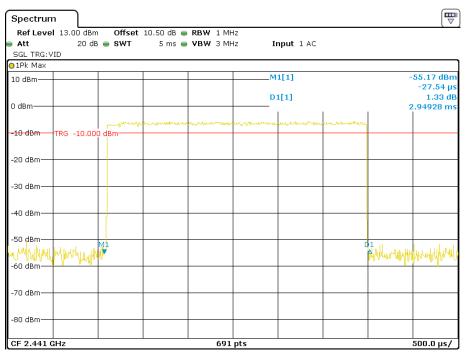


Date: 14.JUL.2018 11:14:58

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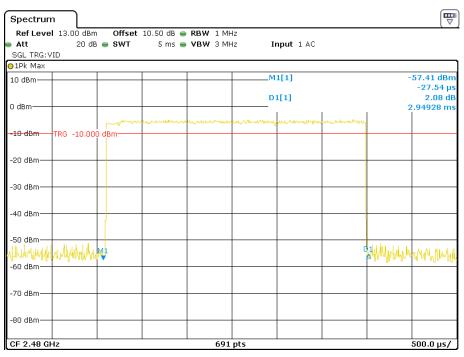
Pulse time, Middle Channel, 2DH5

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 11:15:13

Pulse time, High Channel, 2DH5

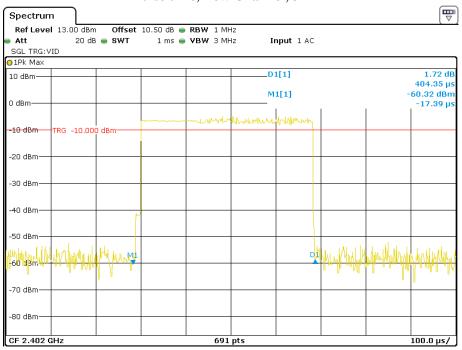


Date: 14.JUL.2018 11:15:26

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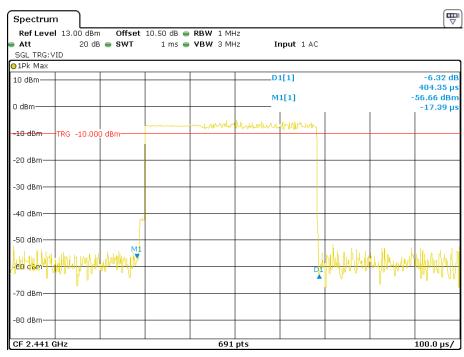
EDR (8DPSK): Pulse time, Low Channel, 3DH1

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 10:44:34

Pulse time, Middle Channel, 3DH1

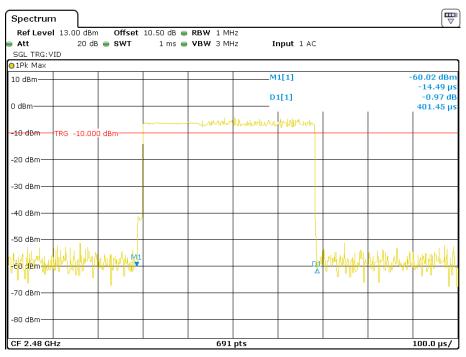


Date: 14.JUL.2018 10:45:01

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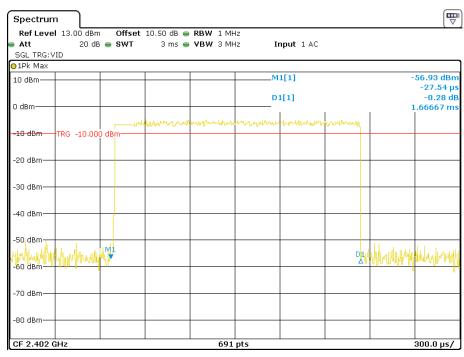
Pulse time, High Channel, 3DH1

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 10:45:31

Pulse time, Low Channel, 3DH3

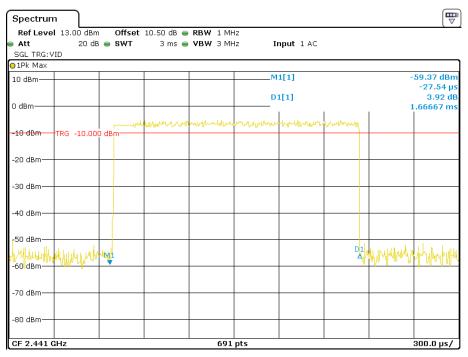


Date: 14.JUL.2018 10:57:47

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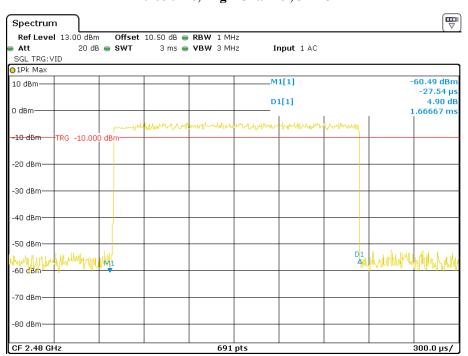
Pulse time, Middle Channel, 3DH3

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 10:58:01

Pulse time, High Channel, 3DH3

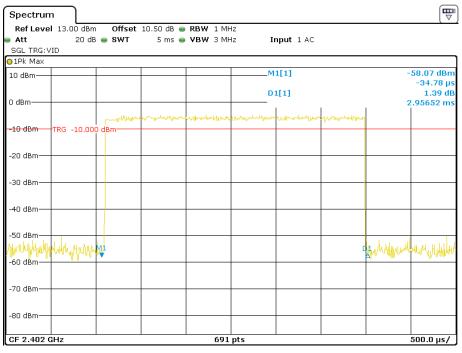


Date: 14.JUL.2018 10:58:16

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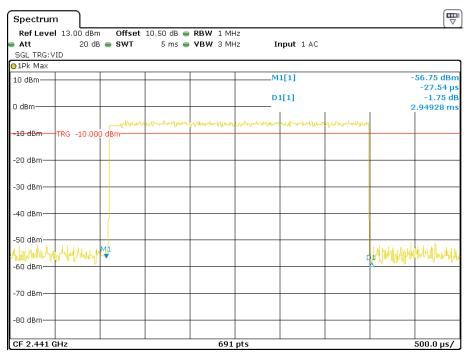
Pulse time, Low Channel, 3DH5

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 11:16:02

Pulse time, Middle Channel, 3DH5

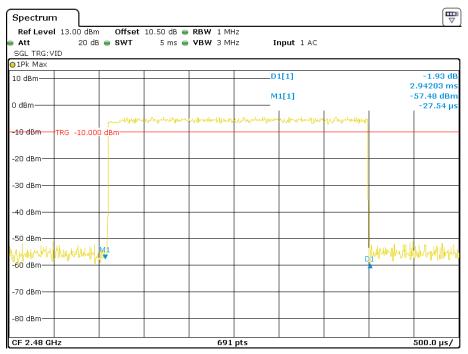


Date: 14.JUL.2018 11:16:20

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Pulse time, High Channel, 3DH5

Report No.: RSZ180711002-00B



Date: 14.JUL.2018 11:16:47

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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.: RSZ180711002-00B

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 Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Haiguo Li on 2018-07-12.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table.

Mode	Channel	Frequency (MHz)	Peak Output Power		Limit
			(dBm)	(mW)	(mW)
	Low	2402	-0.71	0.85	125
BDR (GFSK)	Middle	2441	-1.50	0.71	125
	High	2480	-0.78	0.84	125
EDR (π/4-DQPSK)	Low	2402	-0.29	0.94	125
	Middle	2441	-0.88	0.82	125
	High	2480	-0.39	0.91	125
EDR (8DPSK)	Low	2402	0.10	1.02	125
	Middle	2441	-0.62	0.87	125
	High	2480	-0.12	0.97	125

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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.: RSZ180711002-00B

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 Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Haiguo Li on 2018-07-12.

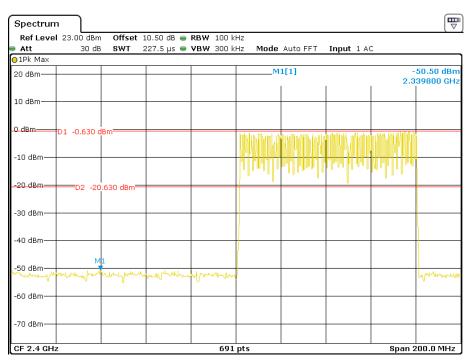
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following plots.

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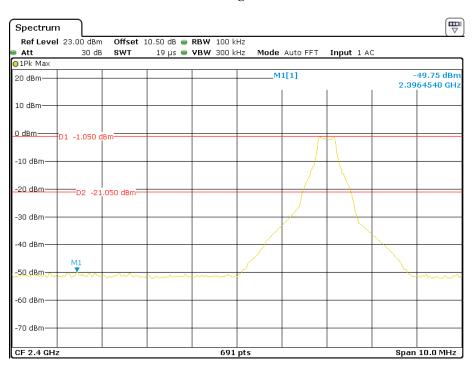
BDR (GFSK): Band Edge-Left Side Hopping

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 17:04:58

Single

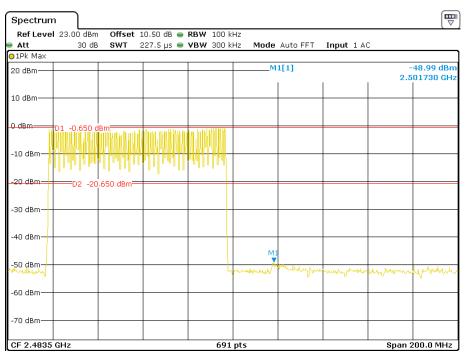


Date: 12.JUL.2018 17:00:29

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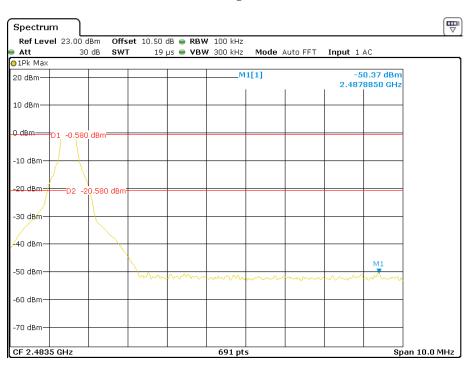
BDR (GFSK): Band Edge-Right Side Hopping

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 17:03:34

Single

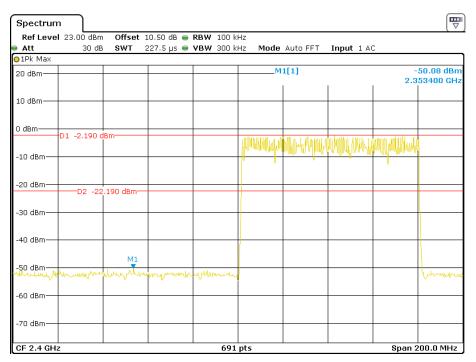


Date: 12.JUL.2018 17:01:43

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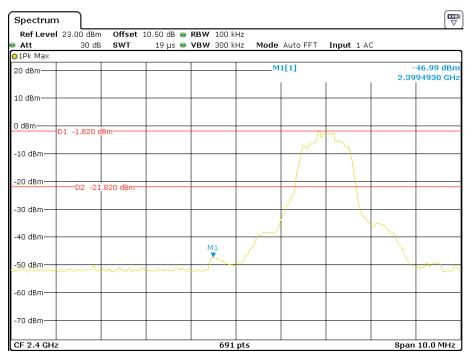
EDR (π/4-DQPSK): Band Edge-Left Side Hopping

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 17:06:38

Single

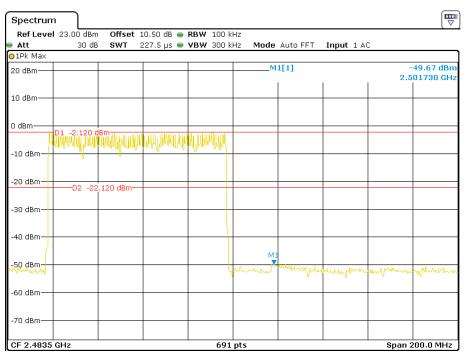


Date: 12.JUL.2018 17:11:51

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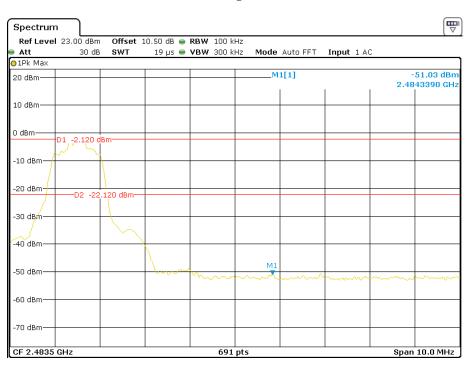
EDR (π /4-DQPSK): Band Edge-Right Side Hopping

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 17:09:03

Single

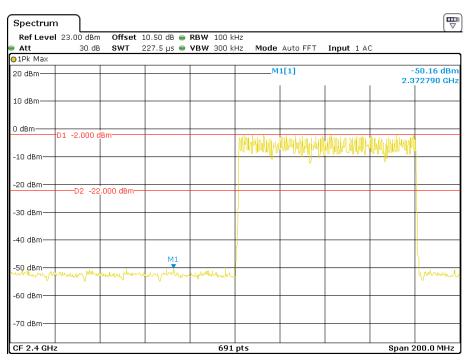


Date: 12.JUL.2018 17:10:41

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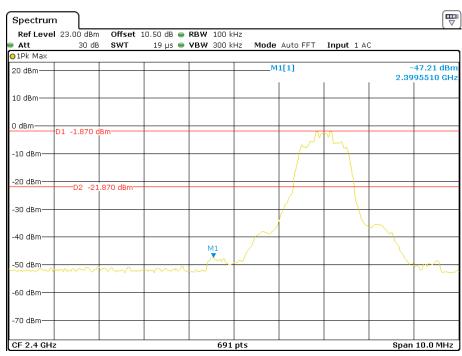
EDR (8DPSK): Band Edge-Left Side Hopping

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 17:18:49

Single

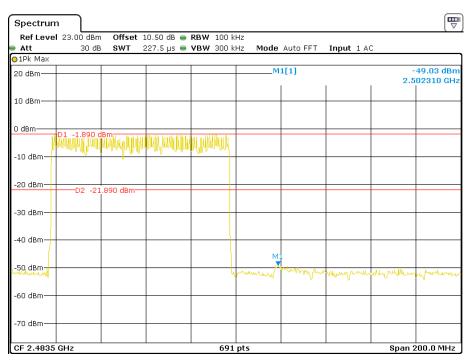


Date: 12.JUL.2018 17:12:51

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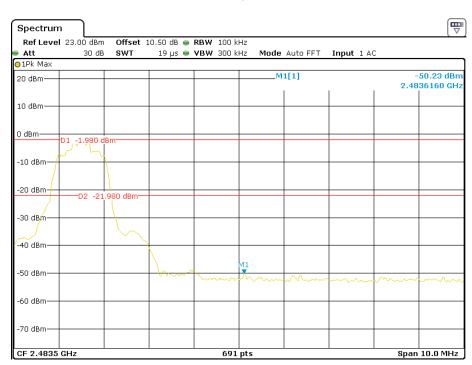
EDR (8DPSK): Band Edge-Right Side Hopping

Report No.: RSZ180711002-00B



Date: 12.JUL.2018 17:17:26

Single



Date: 12.JUL.2018 17:13:44

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

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