



FCC PART 15.247 TEST REPORT

For

Shanghai LeXiang Technology Co., Ltd.

Floor 6, Building 8, Yanjiaqiao Road, Pudong Area, Shanghai, China

FCC ID: 2AJPQ-P1

Report Type: **Product Type:** DPVR Personal Cinema Original Report **Test Engineer:** Max Min **Report Number:** RSHA180815008-00B **Report Date:** 2018-09-28 Oscar. Ye Oscar Ye **Reviewed By:** RF Leader **Prepared By:** Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu province, China Tel: +86-0512-86175000 Fax: +86-0512-88934268 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Shanghai LeXiang Technology Co., Ltd.
Tested Model:	DPVR P1
Product Type:	DPVR Personal Cinema
Dimension:	212.5mm(L)*106.3mm(W)*133.3mm(H)
Power Supply:	DC 3.8V from Li-ion battery and DC 5.0V charging by adapter

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Adapter Information: Model: S010WU0500200

Input: AC 100-240V, 50/60Hz, 400mA

Output:DC 5.0V, 2000mA

Objective

This test report is prepared on behalf of *Shanghai LeXiang Technology Co., Ltd.* 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 15.247 DTS and Part 15.407 NII submittals with FCC ID: 2AJPQ-P1.

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 and FCC KDB558074 D01 15.247 Meas Guidance v05.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Kunshan). 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: 20180815008. (Assigned by the BACL. The EUT supplied by the applicant was received on 2018-08-15)

Measurement Uncertainty

	Item	Uncertainty
AC Power Line	es Conducted Emissions	3.19dB
RF conduct	ed test with spectrum	0.9dB
RF Output Po	ower with Power meter	0.5dB
	30MHz~1GHz	6.11dB
D. Fata Landaria	1GHz~6GHz	4.45dB
Radiated emission	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Оссир	pied Bandwidth	0.5kHz
Т	emperature	1.0℃
Humidity		6%

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Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel list for Bluetooth

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	•••	
	•••	•••	
	•••	78	2480
39	2441	/	/

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EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

RF test tool: Ampak RFTestTool

Power level: N/A (software default)

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
Apple	Earphone	/	/

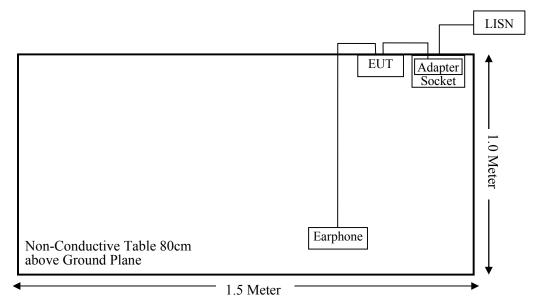
External I/O Cable

Cable Description	Length (m)	From Port	To
USB Cable	0.8	EUT	Adapter

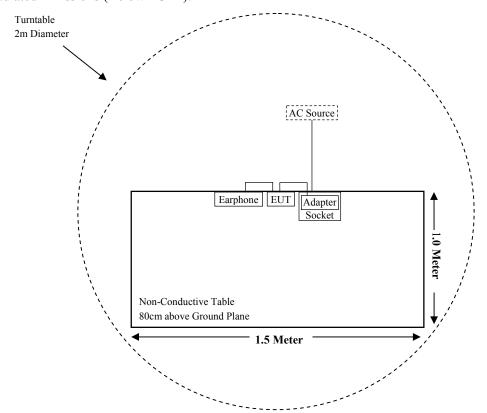
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Block Diagram of Test Setup

For Conducted Emissions:

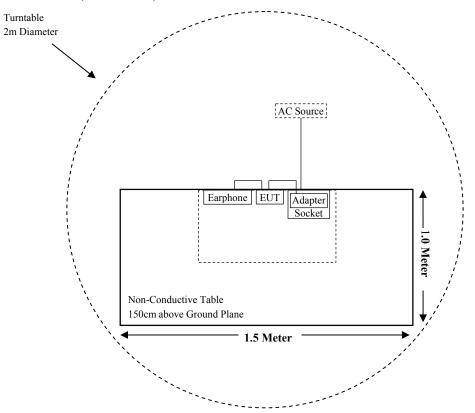


For Radiated Emissions (Below 1GHz):



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For Radiated Emissions (Above 1GHz):



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1310& §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions & Restricted Bands Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	Radiated En	nission Test (Chan			
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2017-11-12	2018-11-11
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2016-12-26	2019-12-25
Sonoma Instrunent	Pre-amplifier	310N	171205	2018-08-15	2019-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14
	Radiated En	nission Test (Chan	nber 2#)		
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-26	2019-08-25
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-26	2019-08-25
ETS-LINDGREN	Horn Antenna	3115	6229	2016-01-11	2019-01-10
ETS-LINDGREN	Horn Antenna	3116	00084159	2016-10-18	2019-10-17
Mini-Circuits	Amplifier	ZVA-183W-S+	220701818	2018-05-20	2019-05-19
EM Electronics Corporation	Amplifier	EM18G40G	060726	2018-03-22	2019-03-21
MICRO-TRONICS	Band notch Filter	BRM50702	/	2018-08-05	2019-08-04
Narda	Attenuator/10dB	10dB	/	2018-08-15	2019-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2018-08-15	2019-08-14
	R	F Conducted Test			
Narda	Attenuator/6dB	10690812-2	26850-6	2018-01-10	2019-01-09
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2018-07-23	2019-07-22
Shanghai LeXiang	RF Cable	LeXiangC01	C01	Each Time	Each Time
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2017-11-12	2018-11-11
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2017-11-12	2018-11-11
BACL	Auto test Software	BACL-EMC	CE001	/	/
Narda	Attenuator/6dB	10690812-2	26850-6	2018-01-10	2019-01-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2018-08-15	2019-08-14

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) 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), §1.1310& §2.1093 –RF EXPOSURE

Applicable Standard

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

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According to KDB447498 D01 General RF Exposure Guidance v06:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

	Target Output Power		Minimum test separation distance	
Mode	Frequency Range (MHz)	(dBm)	(mW)	required for the exposure conditions (mm)
BT3.0	2402-2480	6.0	3.98	5.00
BLE	2402-2480	3.0	2.00	5.00
2.4G Wi-Fi	2412-2462	9.7	9.33	5.00
5G Wi-Fi	5150-5250	3.4	2.19	5.00
SG WI-FI	5725-5850	3.2	2.09	5.00

Note: 1. The target output power was declared by the manufacturer.

2. BT3.0, BLE, 2.4 GHz & 5 GHz Wi-Fi share a same antenna and can't transmit simultaneously.

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Result:

For BT3.0: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$]= 3.98/5* $\sqrt{2.48}$ =1.3 <3.0.

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For BLE: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]

• [√f(GHz)]= 2.00/5*√2.48=0.6<3.0

For 2.4G Wi-Fi: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • $[\sqrt{f(GHz)}] = 9.33/5*\sqrt{2.462} = 2.9 < 3.0$

For 5G Wi-Fi: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • $[\sqrt{f(GHz)}] = 2.09/5*\sqrt{5.85} = 1.0 < 3.0$

So the stand-alone SAR evaluation is not necessary.

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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 a FPC antenna for Bluetooth and the antenna gain is 2.79dBi, which uses a unique coupling to the intentional radiator; fulfill the requirement of this section. Please refer to the EUT photos.

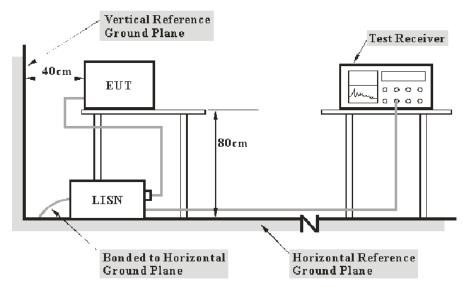
Result: Compliance.

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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.

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:

Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

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

Margin (dB) = Limit (dB μ V) - Corrected Amplitude (dB μ V)

Test Results Summary

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

Test Data

Environmental Conditions

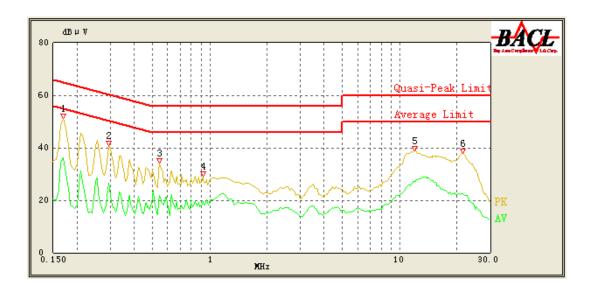
Temperature:	23.4 ℃
Relative Humidity:	49 %
ATM Pressure:	101.1 kPa

The testing was performed by Max Min on 2018-09-06.

EUT operation mode: Transmitting in low channel of 8DPSK mode (Worst case)

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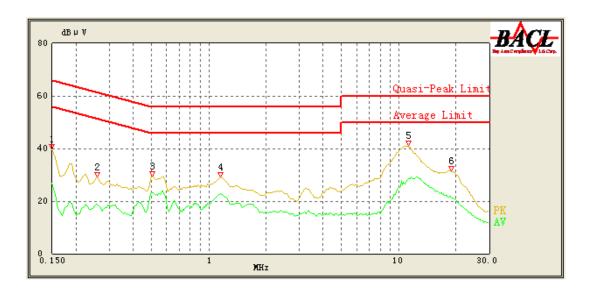
AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.170	51.23	QP	9.000	L1	16.04	64.96	13.73	Compliance
0.170	36.16	AV	9.000	L1	16.04	54.96	18.80	Compliance
0.295	40.89	QP	9.000	L1	16.03	60.38	19.49	Compliance
0.295	26.42	AV	9.000	L1	16.03	50.38	23.96	Compliance
0.545	34.22	QP	9.000	L1	16.05	56.00	21.78	Compliance
0.545	21.77	AV	9.000	L1	16.05	46.00	24.23	Compliance
0.920	29.15	QP	9.000	L1	15.90	56.00	26.85	Compliance
0.920	19.55	AV	9.000	L1	15.90	46.00	26.45	Compliance
11.950	38.96	QP	9.000	L1	16.12	60.00	21.04	Compliance
12.000	27.28	AV	9.000	L1	16.12	50.00	22.72	Compliance
21.400	37.85	QP	9.000	L1	16.45	60.00	22.15	Compliance
21.500	22.50	AV	9.000	L1	16.45	50.00	27.50	Compliance

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AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.150	39.99	QP	9.000	N	16.06	66.00	26.01	Compliance
0.150	26.67	AV	9.000	N	16.06	56.00	29.33	Compliance
0.260	29.09	QP	9.000	N	16.06	61.43	32.34	Compliance
0.260	18.86	AV	9.000	N	16.06	51.43	32.57	Compliance
0.505	29.56	QP	9.000	N	16.11	56.00	26.44	Compliance
0.505	23.23	AV	9.000	N	16.11	46.00	22.77	Compliance
1.150	29.19	QP	9.000	N	15.94	56.00	26.81	Compliance
1.150	22.74	AV	9.000	N	15.94	46.00	23.26	Compliance
11.200	41.08	QP	9.000	N	15.99	60.00	18.92	Compliance
11.200	28.41	AV	9.000	N	15.99	50.00	21.59	Compliance
18.850	31.48	QP	9.000	N	16.13	60.00	28.52	Compliance
18.700	21.85	AV	9.000	N	16.12	50.00	28.15	Compliance

Note:

1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Margin (dB) = Limit (dB μ V) - Corrected Amplitude (dB μ V)

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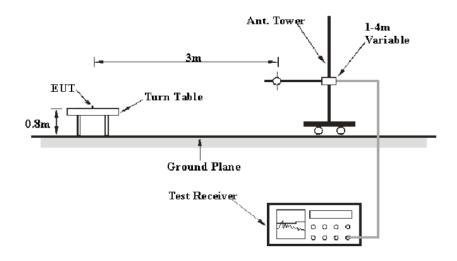
FCC §15.205, §15.209 & §15.247(d) - RADIATED EMISSIONS

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:



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 Setup

The system was investigated from 30 MHz to 25 GHz.

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

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Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz - 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	PK
Above IGHZ	1MHz	3 MHz	/	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:

Corrected Amplitude ($dB\mu V/m$) = Meter Reading ($dB\mu V$) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

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 (dB) = Limit (dB μ V/m) - Corrected Amplitude (dB μ V/m)

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.

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Test Data

Environmental Conditions

Temperature:	23.3-24.4 ℃
Relative Humidity:	49-50 %
ATM Pressure:	101.1-101.2 kPa

The testing was performed by Max Min on 2018-08-31& 2018-09-16.

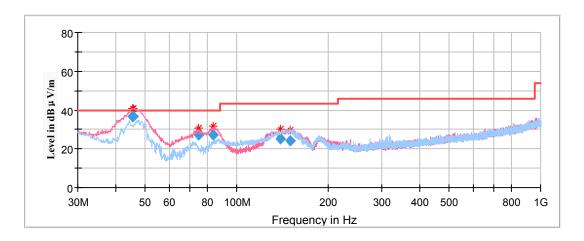
EUT operation mode: Transmitting

Spurious Emission Test:

30MHz-1GHz:

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case 8DPSK Mode in X-axis of orientation was recorded

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Frequency	Corrected Amplitude	Rx Antenna		Turntable	Corrected	Limit	Margin
(MHz)	Quasi-peak (dBμV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
45.368200	36.94	101.0	V	121.0	-14.4	40.00	3.06
45.844650	36.94	101.0	V	210.0	-14.7	40.00	3.06
74.955450	27.36	101.0	V	174.0	-17.5	40.00	12.64
83.612800	27.29	101.0	V	153.0	-17.7	40.00	12.71
139.408400	25.15	199.0	Н	200.0	-11.9	43.50	18.35
150.190100	24.30	199.0	V	84.0	-12.3	43.50	19.20

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1GHz-18GHz:

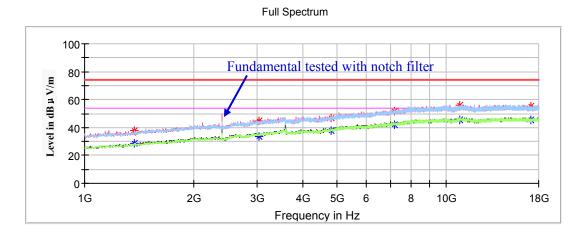
Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case 8DPSKMode in X-axis of orientation was recorded

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Note:

- 1. This test was performed with the 2.4 2.5GHz notch filter.
- 2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) Amplifier Factor (dB) Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V) Margin (dB) = Limit (dB μ V/m) Corrected Amplitude (dB μ V /m)

Low Channel: 2402MHz

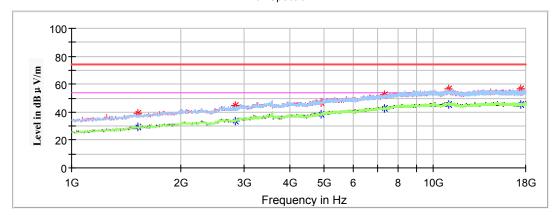


Frequency	Corrected .	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1374.000000	37.73		100.0	Н	127.0	-2.0	74.00	36.27
1374.000000		28.89	100.0	Н	127.0	-2.0	54.00	25.11
3026.400000	44.42		100.0	V	107.0	6.1	74.00	29.58
3026.400000		33.86	100.0	V	107.0	6.1	54.00	20.14
4804.000000		37.91	200.0	V	85.0	10.7	54.00	16.09
4804.000000	46.97		200.0	V	85.0	10.7	74.00	27.03
7206.000000		42.30	100.0	V	246.0	15.2	54.00	11.70
7206.000000	51.49		100.0	V	246.0	15.2	74.00	22.51
10890.600000		45.78	250.0	V	304.0	18.8	54.00	8.22
10890.600000	56.11		250.0	V	304.0	18.8	74.00	17.89
17180.600000		45.34	150.0	V	112.0	18.2	54.00	8.66
17180.600000	55.43		150.0	V	112.0	18.2	74.00	18.57

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Middle Channel: 2441MHz

Full Spectrum

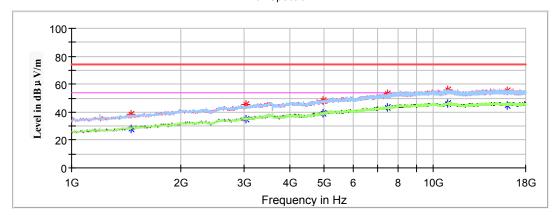


Frequency	Corrected .	Amplitude	Rx Antenna		Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1520.200000		29.06	250.0	V	247.0	-1.1	54.00	24.94
1520.200000	39.42		250.0	V	247.0	-1.1	74.00	34.58
2842.800000		33.61	100.0	V	265.0	5.1	54.00	20.39
2842.800000	44.67		100.0	V	265.0	5.1	74.00	29.33
4882.000000		38.43	100.0	V	250.0	11.1	54.00	15.57
4882.000000	47.05		100.0	V	250.0	11.1	74.00	26.95
7323.000000		42.67	200.0	V	275.0	15.4	54.00	11.33
7323.000000	52.26		200.0	V	275.0	15.4	74.00	21.74
11036.800000		45.42	100.0	V	44.0	19.0	54.00	8.58
11036.800000	56.70		100.0	V	44.0	19.0	74.00	17.30
17442.400000		45.41	250.0	V	313.0	18.4	54.00	8.59
17442.400000	56.35		250.0	V	313.0	18.4	74.00	17.65

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High Channel: 2480MHz

Full Spectrum



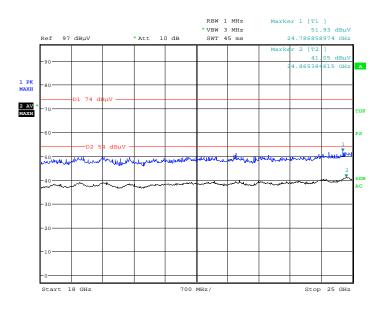
Emagnamay	Corrected A	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1459.000000		28.22	200.0	V	112.0	-1.5	54.00	25.78
1459.000000	38.44		200.0	V	112.0	-1.5	74.00	35.56
3029.800000		35.15	100.0	V	216.0	6.1	54.00	18.85
3029.800000	45.11		100.0	V	216.0	6.1	74.00	28.89
4960.000000		38.91	250.0	V	333.0	11.5	54.00	15.09
4960.000000	48.11		250.0	V	333.0	11.5	74.00	25.89
7440.000000		43.02	200.0	V	284.0	15.6	54.00	10.98
7440.000000	52.93		200.0	V	284.0	15.6	74.00	21.07
10945.000000		46.36	100.0	V	4.0	18.9	54.00	7.64
10945.000000	56.01		100.0	V	4.0	18.9	74.00	17.99
16028.000000		44.91	200.0	Н	50.0	18.3	54.00	9.09
16028.000000	55.46		200.0	Н	50.0	18.3	74.00	18.54

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18GHz-25GHz:

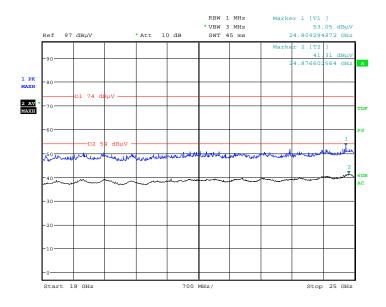
Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case 8DPSK Mode in X-axis of orientation was recorded

Horizontal



Date: 16.SEP.2018 17:40:11

Vertical



Date: 16.SEP.2018 18:00:55

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Fundamental Test & Restricted Bands Emissions:

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X, Y and Z axes of orientation, the worst case 8DPSK Mode in X-axis of orientation was recorded

Report No.: RSHA180815008-00B

Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) - Amplifier Factor (dB) Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V) Margin (dB) = Limit (dB μ V/m) - Corrected Amplitude (dB μ V /m)

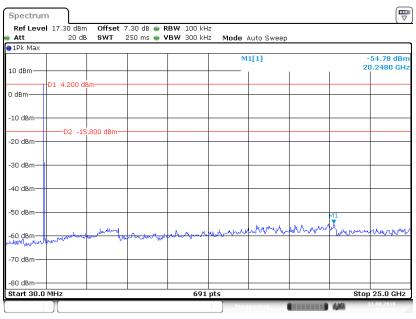
	Corrected	l Amplitude	Rx A	ntenna		Corrected				
Frequency (MHz)	MaxPeak (dBμV /m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Turntable Degree	Factor (dB/m)	Limit (dBμV/m)	Margin (dB)		
	Low Channel: 2402MHz									
2402.000000	100.74		150.0	V	312.0	2.9	/	/		
2402.000000		100.34	150.0	V	312.0	2.9	/	/		
2402.000000	98.62		200.0	Н	213.0	2.9	/	/		
2402.000000		98.19	200.0	Н	213.0	2.9	/	/		
2390.000000	50.35		150.0	V	137.0	2.8	74.00	23.65		
2390.000000		42.71	150.0	V	137.0	2.8	54.00	11.29		
		l	Middle Cha	nnel: 2441N	МНz					
2441.000000	99.77		150.0	V	94.0	3.0	/	/		
2441.000000		99.36	150.0	V	94.0	3.0	/	/		
2441.000000	97.66		200.0	Н	189.0	3.0	/	/		
2441.000000		97.23	200.0	Н	189.0	3.0	/	/		
			High Char	nel: 2480M	Hz					
2480.000000	98.73		150.0	V	341.0	3.0	/	/		
2480.000000		98.35	150.0	V	341.0	3.0	/	/		
2480.000000	96.56		200.0	Н	111.0	3.0	/	/		
2480.000000		96.19	200.0	Н	111.0	3.0	/	/		
2483.500000	45.71		150.0	V	278.0	3.0	74.00	28.29		
2483.500000		44.96	150.0	V	278.0	3.0	54.00	9.04		

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Conducted Spurious Emissions at Antenna Port

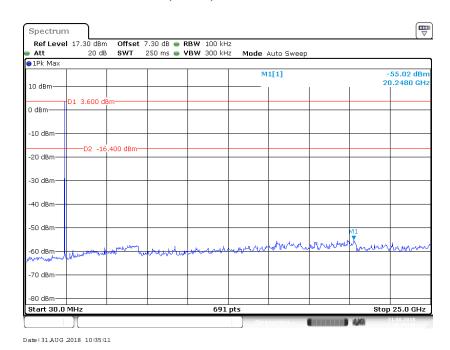
BDR (GFSK): Low Channel

Report No.: RSHA180815008-00B



Date: 31 AUG 2018 10:31:18

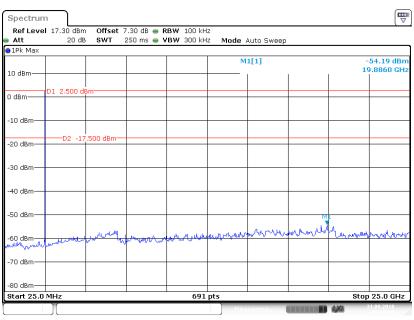
BDR (GFSK): Middle Channel



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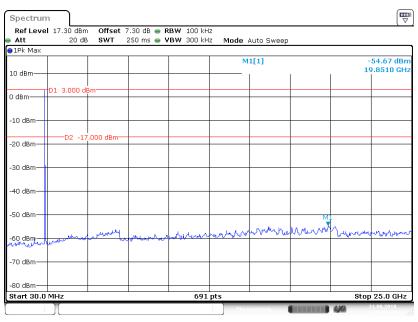
BDR (GFSK): High Channel

Report No.: RSHA180815008-00B



Date: 31 AUG .2018 10:39:48

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

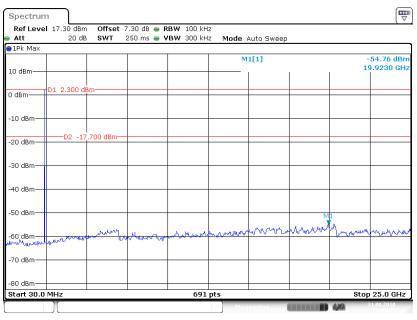


Date: 31 AUG .2018 09:45:26

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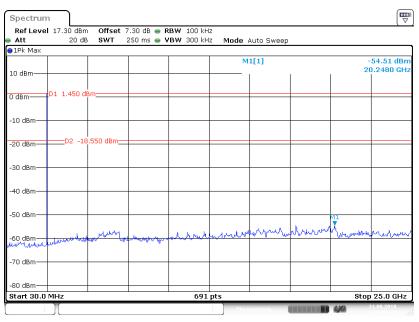
EDR (π/4-DQPSK): Middle Channel

Report No.: RSHA180815008-00B



Date: 31 AUG .2018 09:41:16

EDR (π/4-DQPSK): High Channel

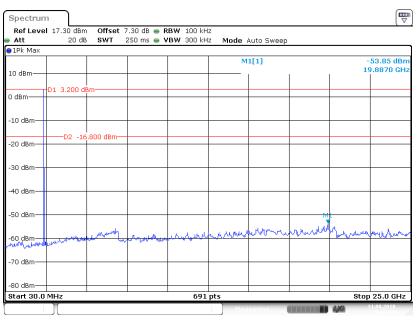


Date: 31 AUG .2018 09:55:32

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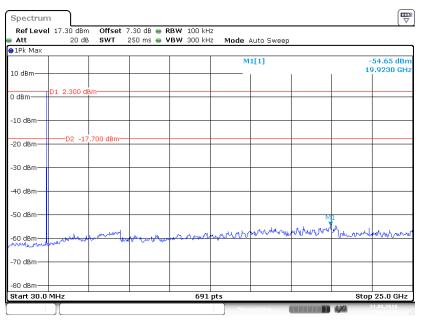
EDR (8DPSK): Low Channel

Report No.: RSHA180815008-00B



Date: 31 AUG .2018 10:02:01

EDR (8DPSK): Middle Channel

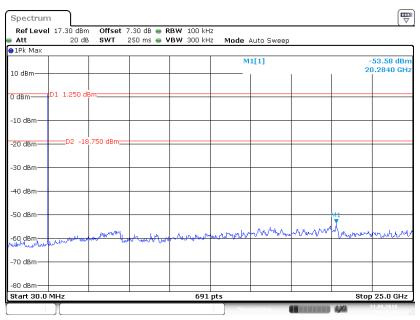


Date: 31 AUG .2018 10:07:08

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Report No.: RSHA180815008-00B

EDR (8DPSK): High Channel



Date: 31 AUG 2018 10:25:59

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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.: RSHA180815008-00B

Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: Wide enough to capture the peaks of two adjacent channels.
- b. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c. Video (or average) bandwidth $(VBW) \ge RBW$.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Test Data

Environmental Conditions

Temperature:	23.4 ℃
Relative Humidity:	49 %
ATM Pressure:	101.1 kPa

The testing was performed by Max Min on 2018-08-31.

EUT operation mode: Transmitting

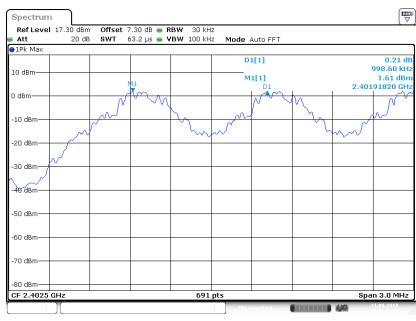
Test Result: Compliance.

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Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
	Low	2402	0.999	> 0.607	Daga
	Adjacent	2403	0.999	≥ 0.697	Pass
BDR	Middle	2441	0.999	> 0.607	Pass
(GFSK)	Adjacent	2442	0.999	≥ 0.697	Pass
	High	2480	0.000	> 0.607	Daza
	Adjacent	2479	0.999	≥ 0.697	Pass
	Low	2402	0.999	> 0.906	Pass
	Adjacent	2403	0.999	≥ 0.906	Pass
EDR	Middle	2441	0.000	≥ 0.906	Daza
$(\pi/4-DQPSK)$	Adjacent	2442	0.999		Pass
	High	2480	0.000		D
	Adjacent	2479	0.999	≥ 0.903	Pass
	Low	2402	0.000	> 0.006	D
	Adjacent	2403	0.999	≥ 0.886	Pass
EDR (8DPSK)	Middle	2441	0.000	> 0.006	D
	Adjacent	2442	0.999	≥ 0.886	Pass
	High	2480	0.000	> 0.002	Dogg
	Adjacent	2479	0.999	≥ 0.883	Pass

Note: Limit = 20 dB bandwidth*2/3

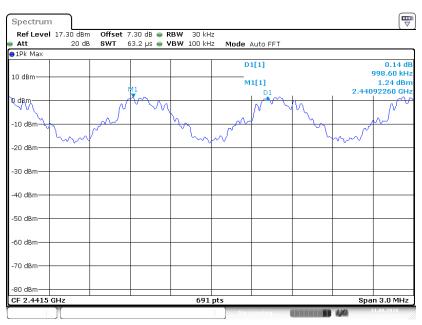
BDR (GFSK): Low Channel



Date: 31 AUG 2018 13:27:18

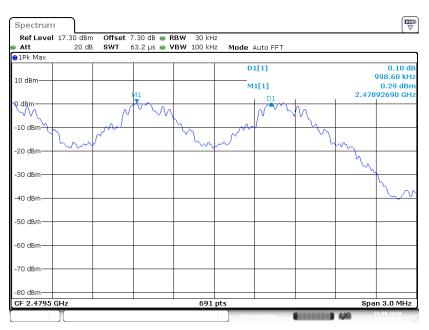
FCC Part 15.247 Page 32 of 74

BDR (GFSK): Middle Channel



Date: 31 AUG .2018 13:32:53

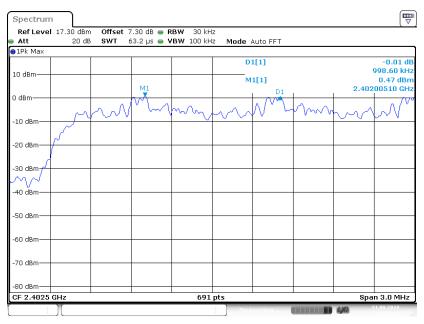
BDR (GFSK): High Channel



Date: 31 AUG 2018 13:33:33

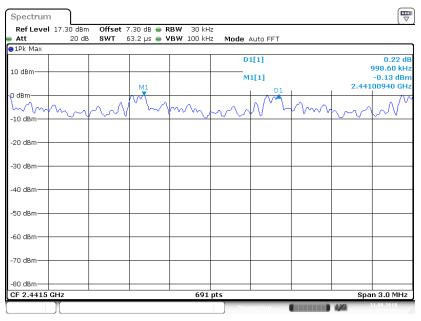
FCC Part 15.247 Page 33 of 74

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



Date: 31 AUG 2018 12:46:26

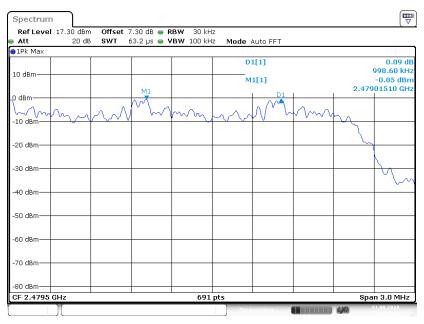
EDR ($\pi/4$ -DQPSK): Middle Channel



Date: 31 AUG 2018 12:38:52

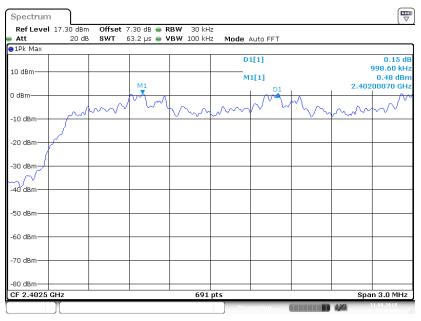
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EDR ($\pi/4$ -DQPSK): High Channel



Date: 31 AUG .2018 12:45:11

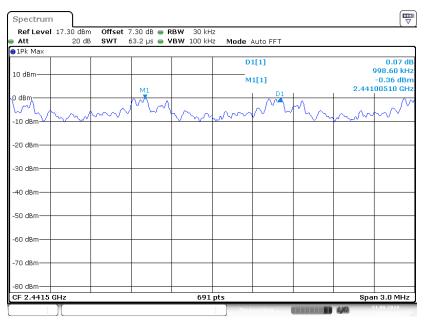
EDR (8DPSK): Low Channel



Date: 31 AUG 2018 13:10:47

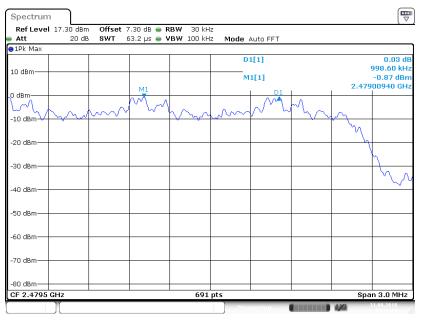
FCC Part 15.247 Page 35 of 74

EDR (8DPSK): Middle Channel



Date: 31 AUG .2018 13:12:03

EDR (8DPSK): High Channel



Date: 31 AUG 2018 13:13:09

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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.

Report No.: RSHA180815008-00B

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:	23.2 ℃
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2018-08-31.

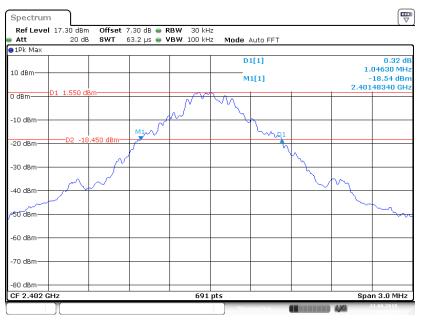
EUT operation mode: Transmitting

Test Result: Compliance.

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Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)	
	Low	2402	1.046	
BDR (GFSK)	Middle	2441	1.046	
(GI SII)	High	2480	1.046	
EDR (π/4-DQPSK)	Low	2402	1.359	
	Middle	2441	1.359	
	High	2480	1.355	
EDR (8DPSK)	Low	2402	1.329	
	Middle	2441	1.329	
	High	2480	1.324	

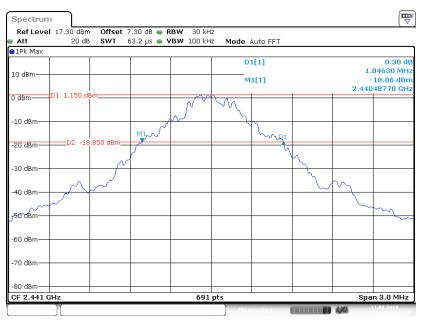
BDR (GFSK): Low Channel



Date: 31 AUG 2018 10:28:57

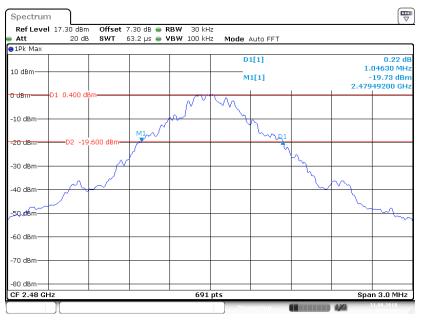
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BDR (GFSK): Middle Channel



Date: 31 AUG 2018 10:34:06

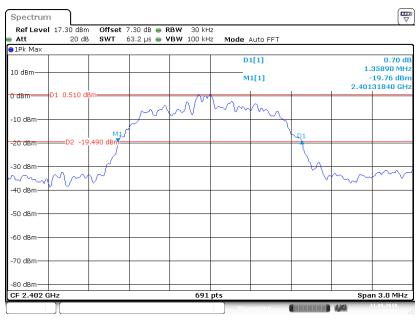
BDR (GFSK): High Channel



Date: 31 AUG 2018 10:37:52

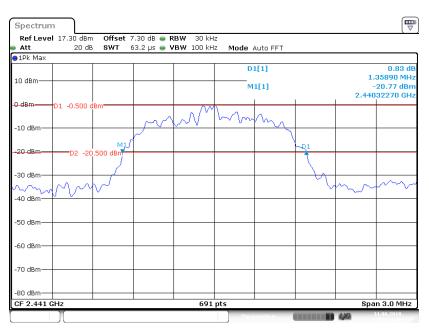
FCC Part 15.247 Page 39 of 74

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



Date: 31 AUG .2018 09:27:05

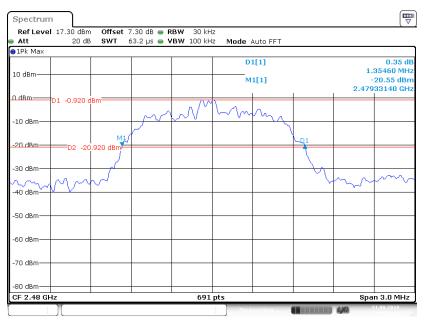
$EDR(\pi/4-DQPSK)$: Middle Channel



Date: 31 AUG 2018 09:33:47

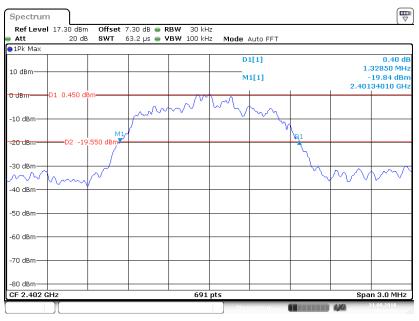
FCC Part 15.247 Page 40 of 74

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



Date: 31 AUG 2018 09:52:41

EDR (8DPSK): Low Channel



Date: 31 AUG 2018 09:59:19

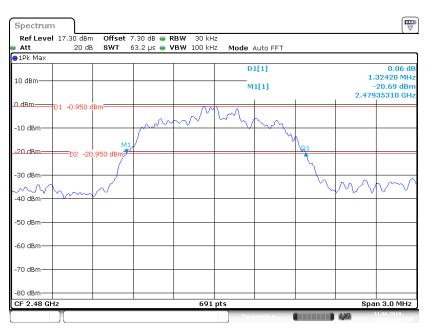
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EDR (8DPSK): Middle Channel



Date: 31 AUG 2018 10:05:22

EDR (8DPSK): High Channel



Date: 31 AUG 2018 10:12:20

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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.: RSHA180815008-00B

Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c. $VBW \ge RBW$.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies.

Test Data

Environmental Conditions

Temperature:	23.2 ℃
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2018-08-31.

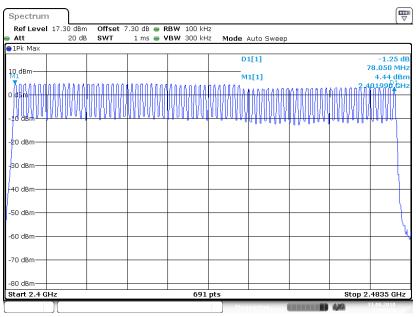
EUT operation mode: Hopping

Test Result: Compliance.

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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

BDR (GFSK): Number of Hopping Channels

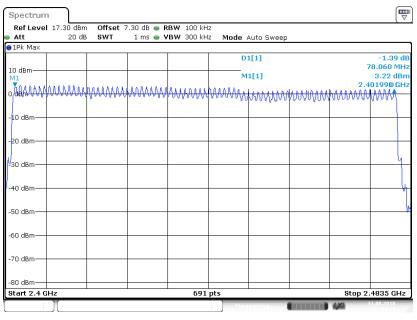


Date: 31 AUG .2018 13:35:29

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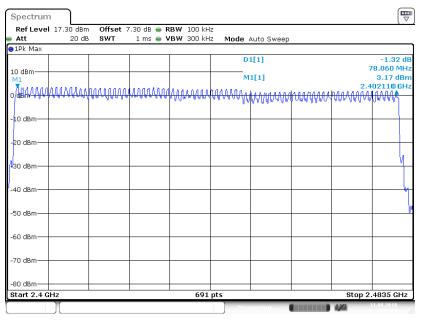
Report No.: RSHA180815008-00B

EDR (π/4-DQPSK): Number of Hopping Channels



Date: 31 AUG 2018 13:41:39

EDR (8DPSK): Number of Hopping Channels



Date: 31 AUG 2018 13:09:04

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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.: RSHA180815008-00B

Test Procedure

- 1 Span: Zero span, centered on a hopping channel.
- 2 RBW shall be \leq channel spacing and where possible RBW should be set \geq 1 / T, where T is the expected dwell time per channel.
- 3 Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4 Detector function: Peak.

5 Trace: Max hold.

Test Data

Environmental Conditions

Temperature:	23.4 ℃
Relative Humidity:	51 %
ATM Pressure:	101.2 kPa

The testing was performed by Max Min on 2018-08-31.

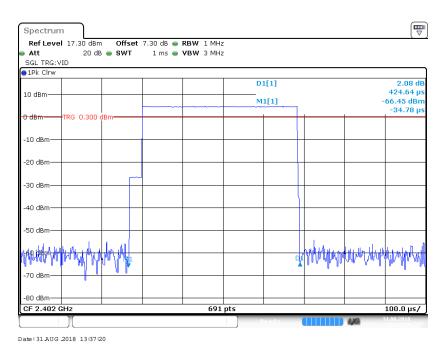
EUT operation mode: Hopping

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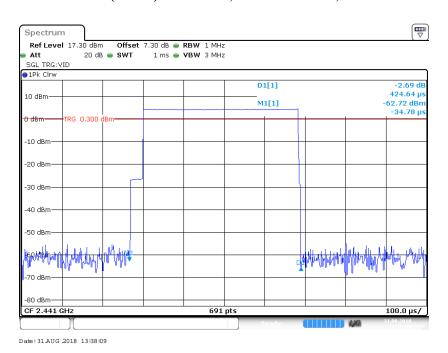
Mod	de	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
		Low	0.425	0.136	0.4	Pass
	DIII	Middle	0.425	0.136	0.4	Pass
	DH1	High	0.425	0.136	0.4	Pass
		No	ote: DH1: Dwell t	ime = Pulse time	*(1600/2/79)*31.0	6S
		Low	1.694	0.271	0.4	Pass
BDR	DH2	Middle	1.694	0.271	0.4	Pass
(GFSK)	DH3	High	1.694	0.271	0.4	Pass
		No	te: DH3: Dwell t	ime = Pulse time	*(1600/4/79)*31.0	6S
		Low	2.935	0.313	0.4	Pass
	DU	Middle	2.935	0.313	0.4	Pass
	DH5	High	2.935	0.313	0.4	Pass
		No	ote: DH5: Dwell t	ime = Pulse time	*(1600/6/79)*31.0	6S
		Low	0.43	0.138	0.4	Pass
	2DH1	Middle	0.43	0.138	0.4	Pass
	20111	High	0.43	0.138	0.4	Pass
			te: 2DH1: Dwell	time = Pulse time	*(1600/2/79)*31.	.6S
		Low	1.694	0.271	0.4	Pass
EDR	2DH3	Middle	1.694	0.271	0.4	Pass
$(\pi/4\text{-DQPSK})$	2DH3	High	1.694	0.271	0.4	Pass
		Note: 2DH3: Dwell time = Pulse time*(1600/4/79)*31.6S				
		Low	2.946	0.314	0.4	Pass
	2DH5	Middle	2.946	0.314	0.4	Pass
	2DH3	High	2.946	0.314	0.4	Pass
		Note: 2DH5: Dwell time = Pulse time*(1600/6/79)*31.6S				
		Low	0.43	0.138	0.4	Pass
	3DH1	Middle	0.43	0.138	0.4	Pass
31.	эрпі	High	0.43	0.138	0.4	Pass
			Note:3 DH1: Dwell time = Pulse time*(1600/2/79)*31.6S			
EDR (8DPSK)	3DH3 -	Low	1.694	0.271	0.4	Pass
		Middle	1.694	0.271	0.4	Pass
		High	1.694	0.271	0.4	Pass
		Note: 3DH3: Dwell time = Pulse time*(1600/4/79)*31.6S				
	20116	Low	2.946	0.314	0.4	Pass
		Middle	2.946	0.314	0.4	Pass
	3DH5	High	2.946	0.314	0.4	Pass
		No	te: 3DH5: Dwell	time = Pulse time	*(1600/6/79)*31.	.6S

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

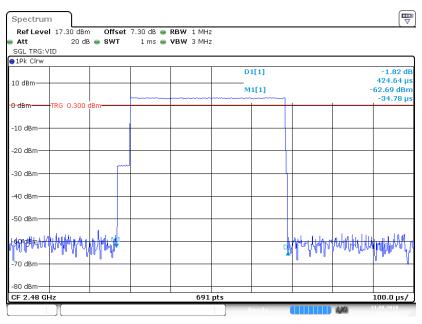


BDR (GFSK): Pulse time, Middle Channel, DH1



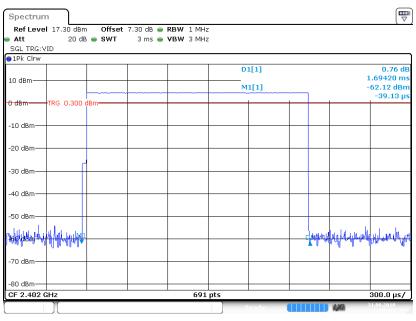
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BDR (GFSK): Pulse time, High Channel, DH1



Date: 31 AUG 2018 13:38:27

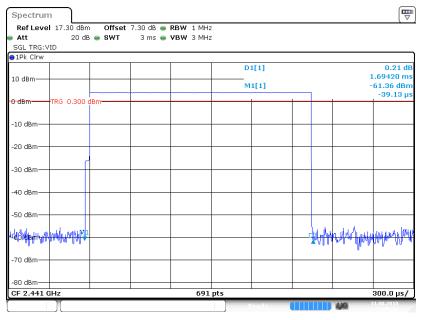
BDR (GFSK): Pulse time, Low Channel, DH3



Date: 31 AUG 2018 13:50:38

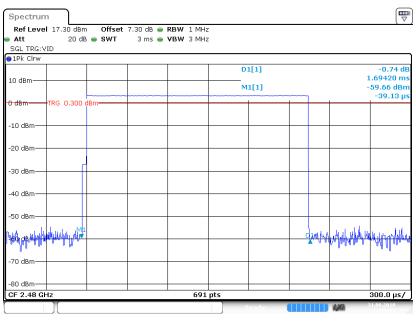
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BDR (GFSK): Pulse time, Middle Channel, DH3



Date: 31 AUG 2018 13:49:17

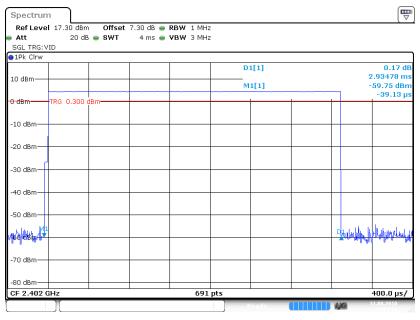
BDR (GFSK): Pulse time, High Channel, DH3



Date: 31 AUG 2018 13:51:08

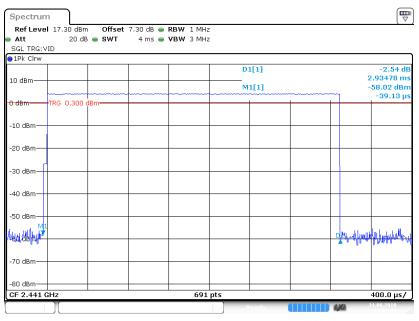
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BDR (GFSK): Pulse time, Low Channel, DH5



Date: 31 AUG 2018 14:05:23

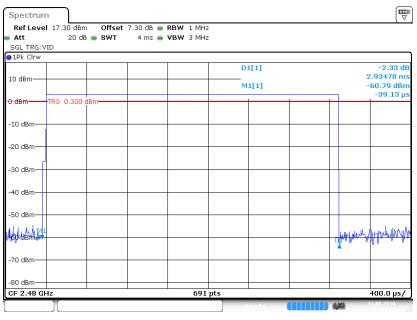
BDR (GFSK): Pulse time, Middle Channel, DH5



Date: 31 AUG 2018 14:05:05

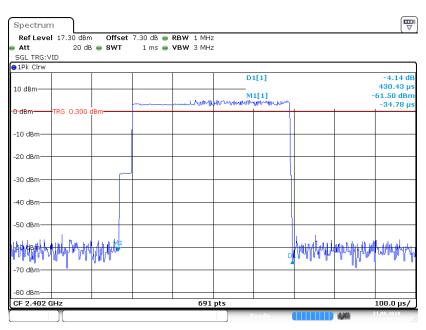
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BDR (GFSK): Pulse time, High Channel, DH5



Date: 31 AUG 2018 14:04:19

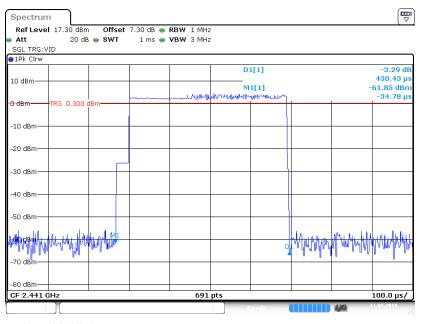
EDR ($\pi/4$ -DQPSK): Pulse time, Low Channel, 2DH1



Date: 31 AUG .2018 12:48:18

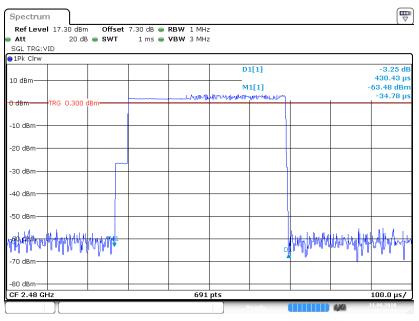
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EDR (π/4-DQPSK):Pulse time, Middle Channel, 2DH1



Date: 31 AUG .2018 12:48:54

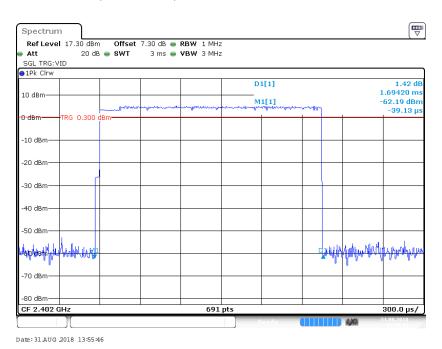
EDR (π/4-DQPSK):Pulse time, High Channel, 2DH1



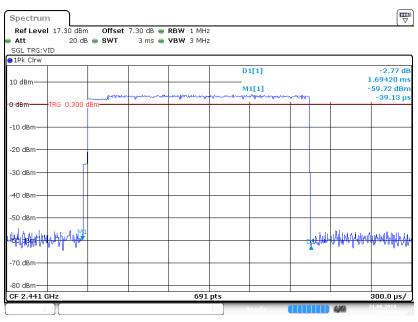
Date: 31 AUG 2018 12:49:15

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EDR (π/4-DQPSK):Pulse time, Low Channel, 2DH3



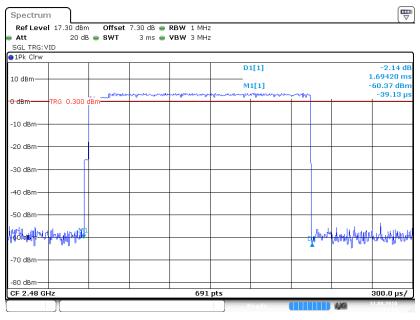
EDR (π/4-DQPSK): Pulse time, Middle Channel, 2DH3



Date: 31 AUG .2018 13:55:19

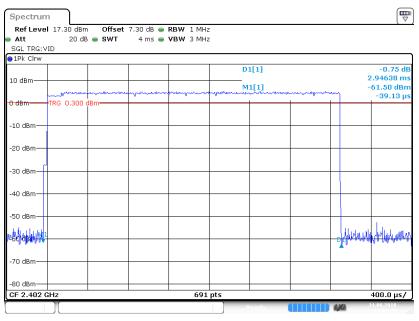
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EDR (π/4-DQPSK):Pulse time, High Channel, 2DH3



Date: 31 AUG 2018 13:54:35

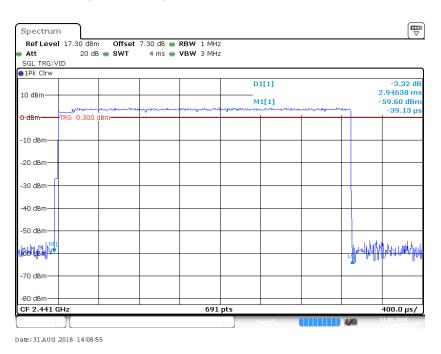
EDR (π/4-DQPSK):Pulse time, Low Channel, 2DH5



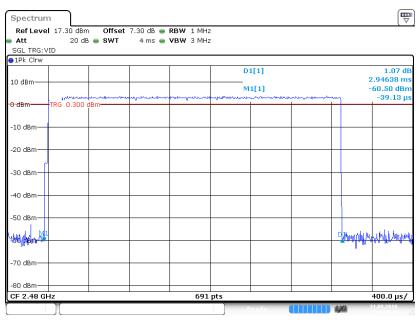
Date: 31 AUG 2018 14:08:26

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EDR (π/4-DQPSK): Pulse time, Middle Channel, 2DH5



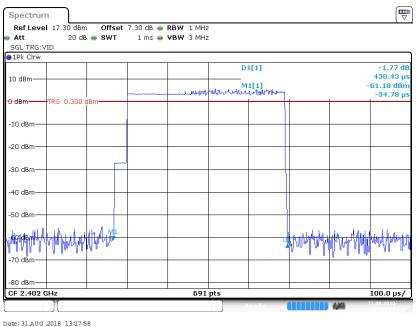
EDR ($\pi/4$ -DQPSK): Pulse time, High Channel, 2DH5



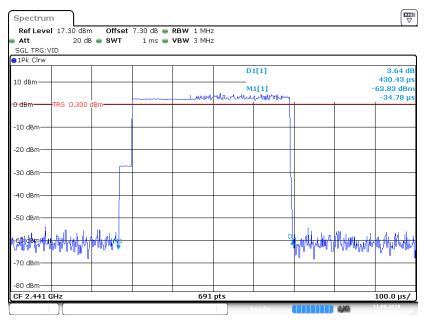
Date: 31 AUG .2018 14:09:23

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



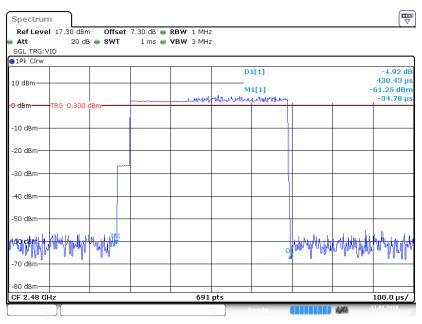
EDR (8DPSK): Pulse time, Middle Channel, 3DH1



Date: 31 AUG 2018 13:18:41

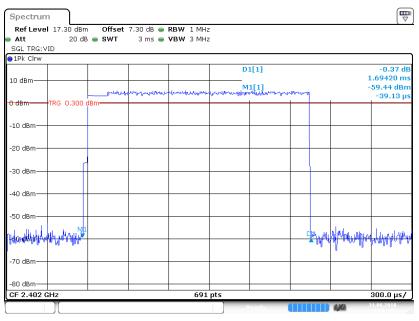
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EDR (8DPSK): Pulse time, High Channel, 3DH1



Date: 31 AUG 2018 13:19:05

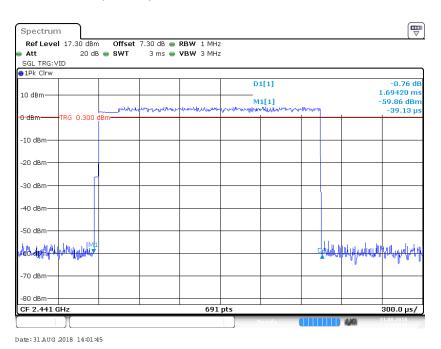
EDR (8DPSK): Pulse time, Low Channel, 3DH3



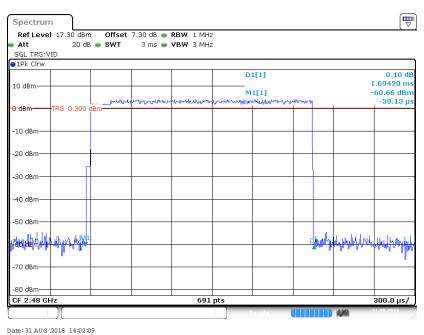
Date: 31 AUG 2018 14:01:12

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EDR (8DPSK): Pulse time, Middle Channel, 3DH3



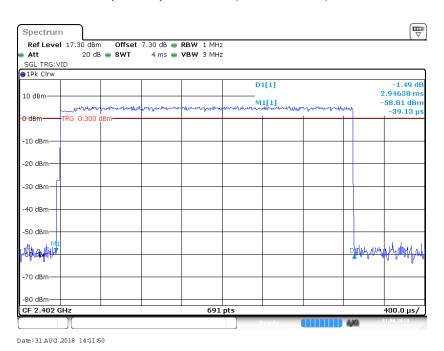
EDR (8DPSK): Pulse time, High Channel, 3DH3



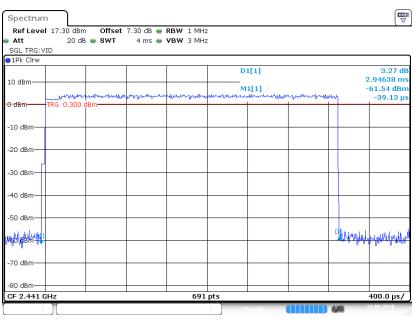
Date: 31 AUG 2016 14:02:09

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EDR (8DPSK): Pulse time, Low Channel, 3DH5



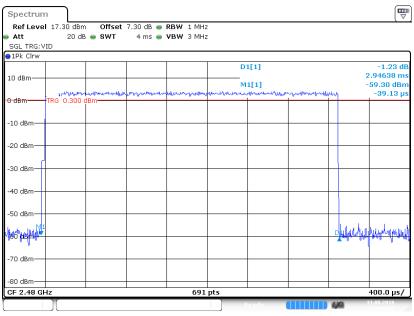
EDR (8DPSK): Pulse time, Middle Channel, 3DH5



Date: 31 AUG .2018 14:11:09

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EDR (8DPSK): Pulse time, High Channel, 3DH5



Date: 31 AUG 2018 14:10:34

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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.: RSHA180815008-00B

Test Procedure

- a. Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW \geq RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b. Allow trace to stabilize.
- c. Use the marker-to-peak function to set the marker to the peak of the emission.
- d. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e. A plot of the test results and setup description shall be included in the test report.

Test Data

Environmental Conditions

Temperature:	23.2 ℃
Relative Humidity:	50 %
ATM Pressure:	101.2 kPa

The testing was performed by Max Min on 2018-08-31 & 2018-09-28.

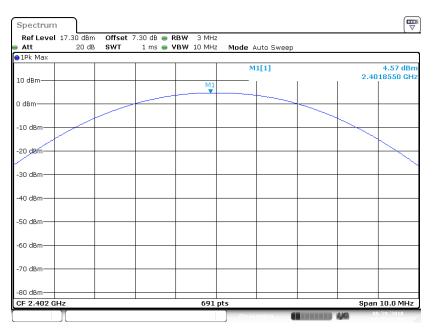
EUT operation mode: Transmitting

Test Result: Compliance.

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Mode	Frequency	Output Power		Limit
Wiouc	(MHz)	(dBm)	(mW)	(mW)
	2402	4.57	2.86	≤ 125
BDR (GFSK)	2441	4.13	2.59	≤ 125
(31311)	2480	3.44	2.21	≤ 125
	2402	5.47	3.52	≤ 125
EDR (π/4-DQPSK)	2441	4.71	2.96	≤ 125
(1.7.1.2 (21.511)	2480	4.22	2.64	≤ 125
	2402	5.97	3.95	≤ 125
EDR (8DPSK)	2441	5.23	3.33	≤ 125
(021514)	2480	4.75	2.99	≤ 125

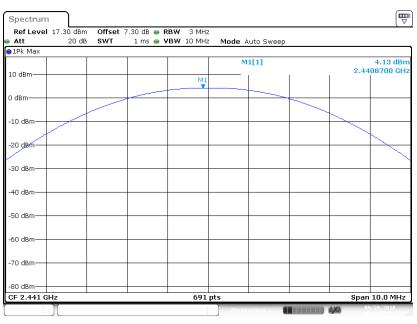
BDR (GFSK): 2402MHz



Date: 28.SEP .2018 20:38:01

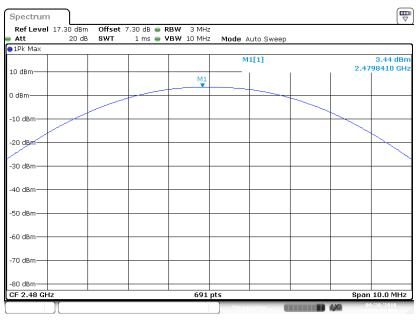
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BDR (GFSK): 2441MHz



Date: 28.SEP 2018 20:41:57

BDR (GFSK): 2480MHz

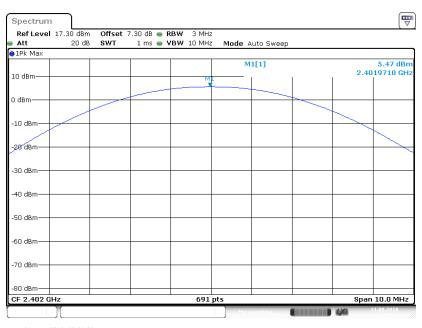


Date: 28.SEP.2018 20:56:50

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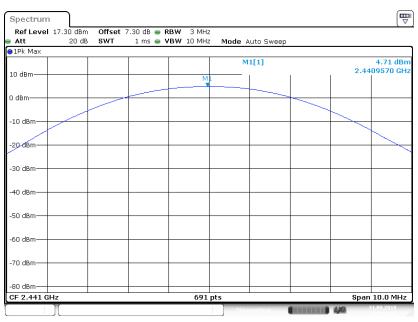
EDR($\pi/4$ -DQPSK): 2402MHz

Report No.: RSHA180815008-00B



Date: 31 AUG .2018 09:25:02

EDR($\pi/4$ -DQPSK): 2441MHz

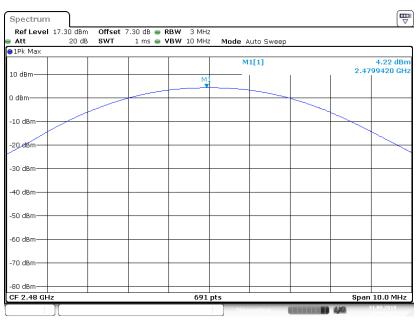


Date: 31 AUG 2018 09:31:47

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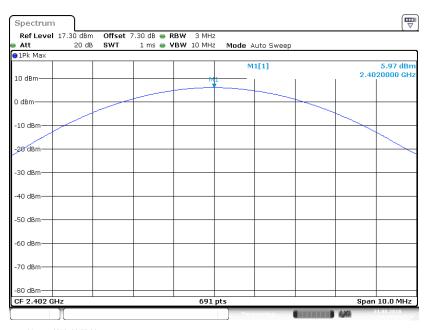
EDR($\pi/4$ -DQPSK): 2480MHz

Report No.: RSHA180815008-00B



Date: 31 AUG 2018 09:49:25

EDR(8DPSK): 2402MHz

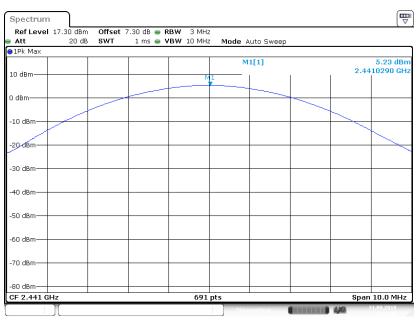


Date: 31 AUG 2018 09:57:24

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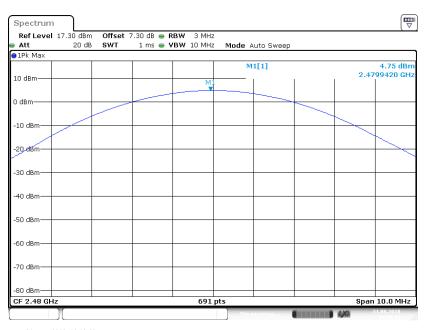
EDR(8DPSK): 2441MHz

Report No.: RSHA180815008-00B



Date: 31 AUG 2018 10:03:44

EDR(8DPSK): 2480MHz



Date: 31 AUG 2018 10:10:45

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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.: RSHA180815008-00B

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:	23.2 ℃
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2018-08-31.

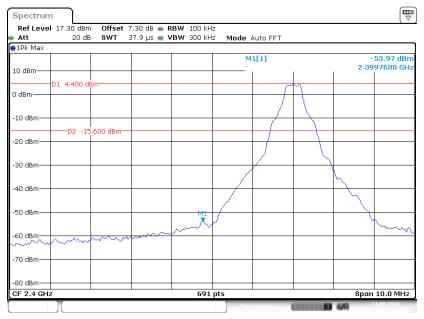
EUT operation mode: Transmitting & Hopping

Test Result: Compliance.

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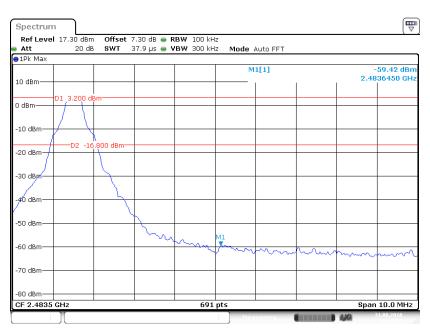
Band Edge

BDR (GFSK): Left Side



Date: 31 AUG .2018 10:29:48

BDR (GFSK): Right Side



Date: 31 AUG 2018 10:38:55

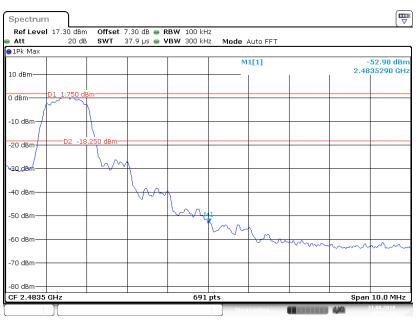
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EDR ($\pi/4$ -DQPSK): Left Side

Report No.: RSHA180815008-00B



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

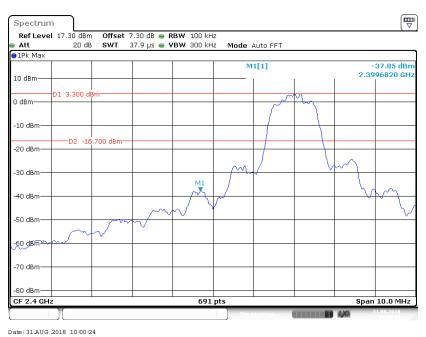


Date:31 AUG 2018 09:54:10

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EDR (8DPSK): Left Side

Report No.: RSHA180815008-00B



EDR (8DPSK): Right Side

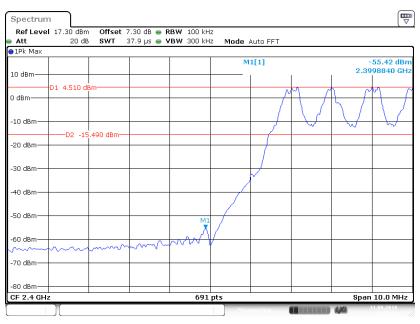


Date: 31 AUG 2018 10:13:59

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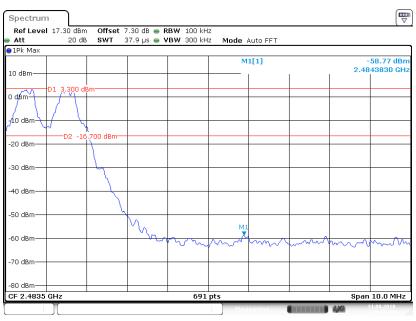
BDR (GFSK): Left Side - Hopping

Report No.: RSHA180815008-00B



Date: 31 AUG .2018 20:55:31

BDR (GFSK): Right Side- Hopping

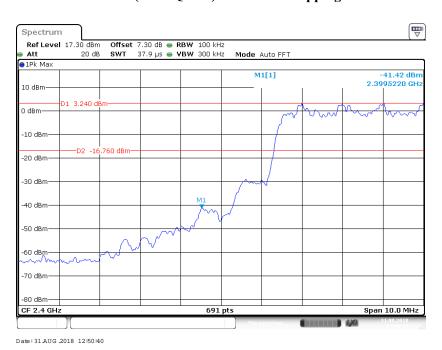


Date: 31 AUG 2018 20:56:30

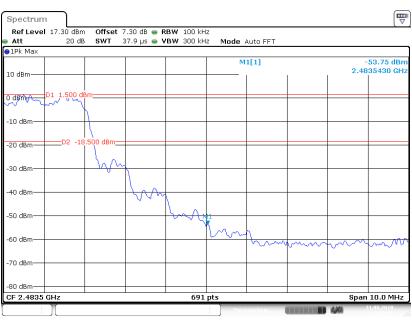
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EDR (π/4-DQPSK): Left Side- Hopping

Report No.: RSHA180815008-00B



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

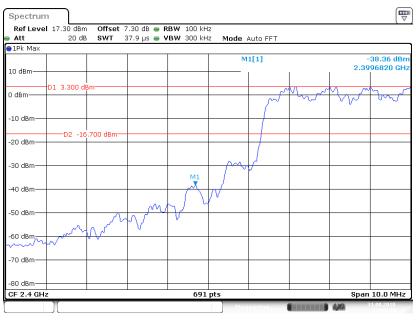


Date: 31 AUG 2018 12:52:36

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EDR (8DPSK): Left Side - Hopping

Report No.: RSHA180815008-00B



Date: 31 AUG 2018 13:06:44

EDR (8DPSK): Right Side - Hopping



Date: 31 AUG 2018 13:04:14

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

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