



FCC PART 15.247

RSS-GEN, ISSUE 5, MARCH 2019 AMENDMENT 1 RSS-247, ISSUE 2, FEBRUARY 2017 TEST REPORT

For

MPOW TECHNOLOGY CO., LIMITED

FLAT/RM 605 6/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONGKOK KL HONG KONG

FCC ID: 2AMH2-BH381C IC: 25122-BH381C

Report Type: Original Report		Product Name: MPOW H17 ANC BLUETOOTH HEADPHONES		
Report Number:	DG22	10419-12111E-00A		
Report Date:	2021-05-08			
	Ivan C	fron Cas		
Reviewed By:	Assistant Manager			
Test Laboratory:	: Bay Area Compliance Laboratories Corp. (Dongguan) No.12, Pulong East 1 st Road, Tangxia Town, Dongguan Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn		No.12, Pulong East 1 st Road, Tangxia Town, Donggua Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891	

Bay Area Compliance Laboratories Corp. (Dongguan)

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GENERAL INFORMATION

EUT Name:	MPOW H17 ANC BLUETOOTH HEADPHONES
EUT Model:	BH381C
Operation Frequency:	2402-2480MHz
Maximum Peak Output Power (Conducted):	1.60 dBm
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Antenna Gain▲:	0dBi
Rated Input Voltage:	DC 3.7V from Battery or DC 5V from USB port
Serial Number:	DG2210419-12111E -RF-S1
EUT Received Date:	2021.04.20
EUT Received Status:	Good

Product Description for Equipment under Test (EUT)

Objective

This report is prepared on behalf of *MPOW TECHNOLOGY CO.,LIMITED* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules and RSS-247, Issue 2, February 2017, RSS-Gen, Issue 5, March 2019 Amendment 1 of the Innovation, Science and Economic Development Canada.

The tests were performed in order to determine the Bluetooth BDR and EDR mode of EUT compliance with FCC Rules Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules and RSS-247, Issue 2, February 2017, RSS-Gen, Issue 5, March 2019 Amendment 1 of the Innovation, Science and Economic Development Canada.

Test Methodology

All measurements detailed in this test report were performed in accordance with ANSI C63.10-2013 "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices" and KDB 558074 D01 15.247 Meas Guidance v05r02. And RSS-247, Issue 2, February 2017, RSS-Gen, Issue 5, March 2019 Amendment 1 of the Innovation, Science and Economic Development Canada.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty		
Occupied Channel Bandwidth	$\pm 5\%$		
RF output power, conducted	±0.61dB		
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB,200M~1GHz: 5.92 dB,1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB		
Unwanted Emissions, conducted	±1.5 dB		
Temperature	±1°C		
Humidity	±5%		
DC and low frequency voltages	±0.4%		
Duty Cycle	1%		
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)		

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, 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. : 897218,the FCC Designation No. : CN1220.

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

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol " \blacktriangle ". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode, which was provided by manufacturer.

EUT Exercise Software

The software "RTLBTAPP" was used for testing and the maximum power was configured as below, which was provided by the manufacturer^A:

Mode	Channel	Test Frequency (MHz)	Power Level Setting
	Low	2402	default
GFSK	Middle	2441	default
	High	2480	default
	Low	2402	default
$\pi/4$ -DQPSK	Middle	2441	default
	High	2480	default
	Low	2402	default
8DPSK	Middle	2441	default
	High	2480	default

Equipment Modifications

No modification was made to the EUT.

Block Diagram of Test Setup

	EUT	Non-Conductive Table 80/150 cm above Ground Plane	▲ 1.0 Meter ►
•		►	

SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC§15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
RSS-102 Clause 2.5.1	Exemption Limits For Routine Evaluation- SAR Evaluation	Compliance
FCC§15.203, RSS-Gen Clause 6.8	Antenna Requirement	Compliance
FCC§15.207 (a), RSS-Gen Clause 8.8	Conducted Emissions	Not Applicable
FCC§15.205, §15.209, FCC §15.247(d), RSS-247 Clause 5.5, RSS-Gen Clause 8.10	Spurious Emissions	Compliance
FCC §15.247 (a)(1), RSS-247 Clause 5.1 b) RSS-Gen Clause 6.7	Emission Bandwidth	Compliance
FCC §15.247(a)(1), RSS-247 Clause 5.1 b)	Channel Separation Test	Compliance
FCC§15.247(a)(1)(iii), RSS-247 Clause 5.1 d)	Time of Occupancy (Dwell Time)	Compliance
FCC§15.247(a)(1)(iii), RSS-247 Clause 5.1 d)	Quantity of hopping channel Test	Compliance
FCC§15.247(b)(1), RSS-247 Clause 5.4 b)	Peak Output Power Measurement	Compliance
FCC§15.247(d) RSS-247 Clause 5.5	Band Edges	Compliance

Not Applicable: the device was powered by battery when operating.

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.

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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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

The max conducted power including tune-up tolerance is 2.0 dBm (1.58 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] =1.58/5*($\sqrt{2.480}$) = 0.5< 3.0

Result: Compliance. The stand-alone SAR evaluation is not necessary.

RSS-102 § 2.5.1 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION

Applicable Standard

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1. For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5.

Frequency	Exemption Limits (mW)				
(MHz)	At separation	At separation	At separation	At separation	At separation
	distance of	distance of	distance of	distance of	distance of
	≤5 mm	10 mm	15 mm	20 mm	25 mm
≤300	71 m W	101 mW	132 m W	162 mW	193 m W
450	52 m W	70 mW	88 m W	106 mW	123 m W
835	17 m W	30 mW	42 m W	55 mW	67 m W
1900	7 m W	10 mW	18 m W	34 mW	60 m W
2450	4 m W	7 mW	15 m W	30 mW	52 m W
3500	2 m W	6 mW	16 m W	32 mW	55 m W
5800	1 m W	6 mW	15 m W	27 mW	41 m W

Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance⁴⁵

Frequency	Exemption Limits (mW)				
(MHz)	At separation	At separation	At separation	At separation	At separation
	distance of	distance of	distance of	distance of	distance of
	30 mm	35 mm	40 mm	45 mm	≥50 mm
≤300	223 m W	254 mW	284 mW	315 mW	345 m W
450	141 mW	159 mW	177 m W	195 mW	213 m W
835	80 m W	92 mW	105 m W	117 mW	130 m W
1900	99 m W	153 mW	225 m W	316 mW	431 m W
2450	83 m W	123 mW	173 m W	235 mW	309 m W
3500	86 m W	124 mW	170 m W	225 mW	290 m W
5800	56 m W	71 mW	85 m W	97 mW	106 m W

Measurement Result:

The max tune-up conducted power is 2dBm(1.58 mW), Antenna Gain:0 dBi

The exemption power(P) limits for routine evaluation in 2402-2480MHz is: (2480-2450)/(3500-2450)=(P -4)/(2-4) =>P=3.94 mW@2480 MHz > 1.58mW

So the stand-alone SAR evaluation can be exempted.

FCC §15.203 & RSS-GEN CLAUSE 6.8 - 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.

According to RSS-Gen §6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Information And Connector Construction

The EUT has one internal antenna arrangement, fulfill the requirement of this section. Please refer to below information and the EUT photos:

Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range
PCB	50	0 dBi/2.4~2.5GHz

Result: Compliance.

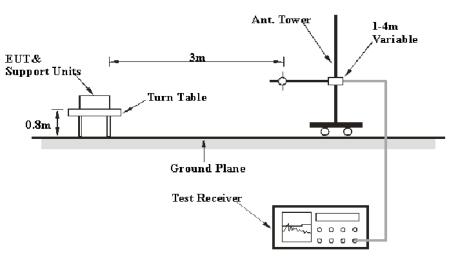
FCC §15.209, §15.205 & §15.247(d) & RSS-247 CLAUSE 5.5,RSS -GEN CLAUSE 8.10- SPURIOUS EMISSIONS

Applicable Standard

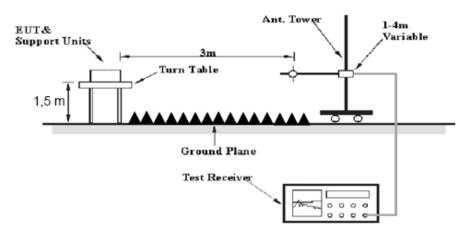
FCC §15.247 (d); §15.209; §15.205; RSS-247 Clause 5.5, RSS-GEN Clause 8.10

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission below 1GHz tests were performed in the 10 meters chamber test site, above 1GHz tests were performed in the 3 meters chamber test site B, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 and the RSS-247 Clause 5.5, RSS-GEN Clause 8.10 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	РК
	1MHz	10 Hz	/	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, peak and average detection modes for frequencies above 1 GHz.

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
		Radiation Below 1G	Hz				
Sunol Sciences	Antenna	JB3	A060611-2	2020-08-25	2023-08-25		
R&S	EMI Test Receiver	ESCI	100224	2020-09-12	2021-09-12		
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2020-09-05	2021-09-05		
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2020-09-05	2021-09-05		
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2020-09-24	2021-09-24		
Sonoma	Amplifier	310N	185914	2020-10-13	2021-10-13		
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A		
	Radiation Above 1GHz						
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12		
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04		
Agilent	Spectrum Analyzer	E4440A	SG43360054	2020-07-07	2021-07-07		
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2020-09-05	2021-09-05		
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2020-06-27	2021-06-27		
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05		
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2020-06-27	2021-06-27		
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A		
E-Microwave	Band-stop Filters	OBSF-2400-2483.5- S	OE01601525	2020-06-16	2021-06-16		
Mini Circuits	High Pass Filter	VHF-6010+	31118	2020-06-16	2021-06-16		

Test Equipment List and Details

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

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 Data

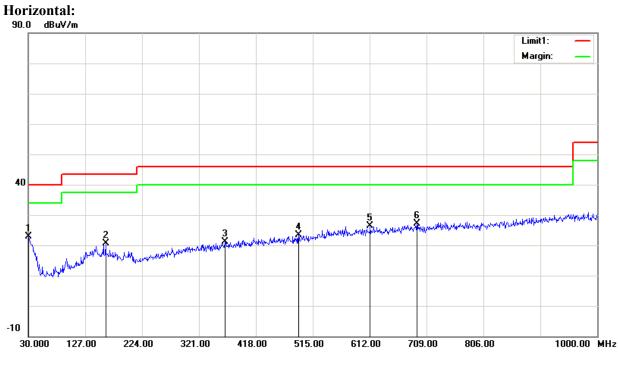
Environmental Conditions

Test Items	Radiation Below 1GHz	Radiation Above 1GHz	
Temperature:	25.9°C	27.1 °C	
Relative Humidity:	49%	50%	
ATM Pressure:	100.9kPa	100.8kPa	
Tester:	Burt Hu	Lee Li	
Test Date:	2021.04.28	2021.04.30	

Test Mode: Transmitting

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

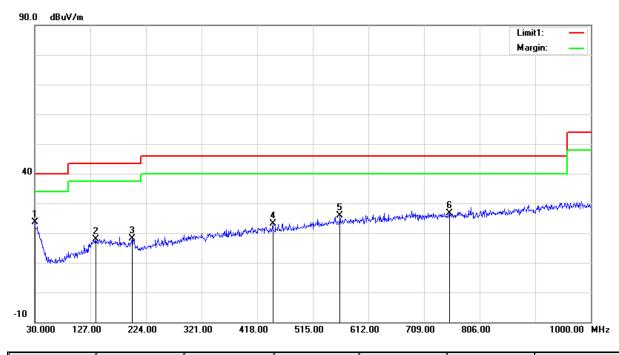
1) 30MHz-1GHz (GFSK high channel was the worst)



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.9700	27.57	peak	-4.66	22.91	40.00	17.09
161.9200	30.05	peak	-9.48	20.57	43.50	22.93
365.6200	27.16	peak	-6.12	21.04	46.00	24.96
490.7500	26.79	peak	-3.50	23.29	46.00	22.71
612.9700	27.38	peak	-0.96	26.42	46.00	19.58
692.5100	26.88	peak	0.13	27.01	46.00	18.99

Bay Area Compliance Laboratories Corp. (Dongguan)

Vertical:



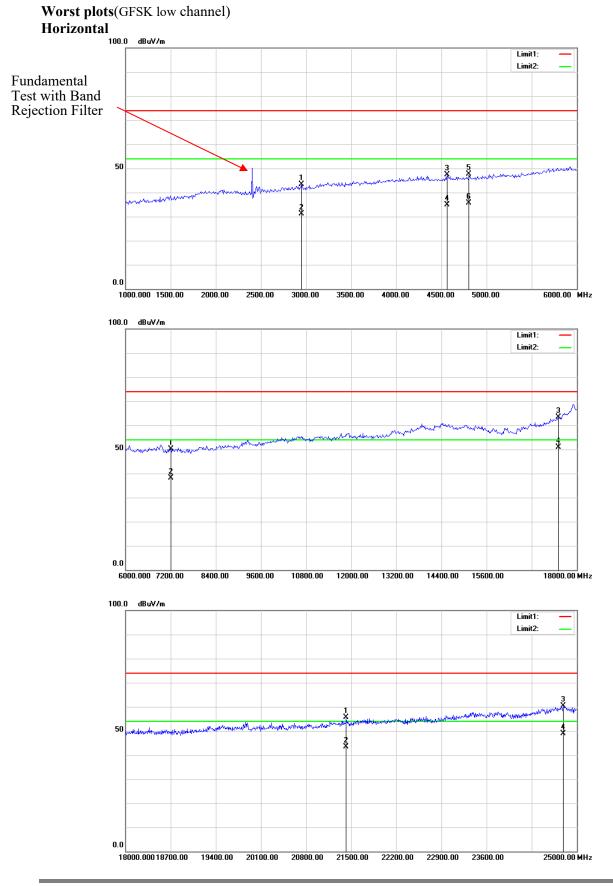
Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.0000	27.61	peak	-4.10	23.51	40.00	16.49
136.7000	27.17	peak	-9.25	17.92	43.50	25.58
199.7500	27.30	peak	-9.24	18.06	43.50	25.44
445.1600	27.58	peak	-4.38	23.20	46.00	22.80
562.5300	27.42	peak	-1.54	25.88	46.00	20.12
753.6200	26.03	peak	0.65	26.68	46.00	19.32

Report No.: DG2210419-12111E-00A

2) 1GHz-25GHz:

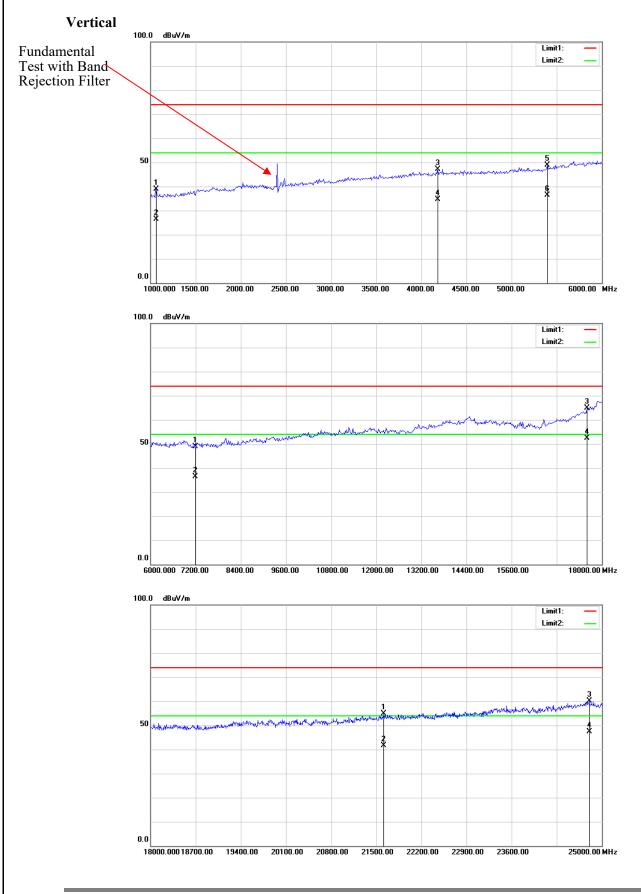
BDR Mode (GFSK was the worst case):

		eiver	· · ·	ntenna	Cable	Amplifier	Corrected	T • •	M ·
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
				Low Chan	nel: 2402	MHz			
2402.00	65.56	PK	Н	28.10	1.80	0.00	95.46	N/A	N/A
2402.00	63.25	AV	Н	28.10	1.80	0.00	93.15	N/A	N/A
2402.00	60.82	РК	V	28.10	1.80	0.00	90.72	N/A	N/A
2402.00	58.26	AV	V	28.10	1.80	0.00	88.16	N/A	N/A
2390.00	28.49	PK	Н	28.08	1.80	0.00	58.37	74.00	15.63
2390.00	16.50	AV	Н	28.08	1.80	0.00	46.38	54.00	7.62
4804.00	37.13	PK	Н	32.91	3.17	25.60	47.61	74.00	26.39
4804.00	25.16	AV	Н	32.91	3.17	25.60	35.64	54.00	18.36
7206.00	36.01	PK	Н	35.74	4.82	25.60	50.97	74.00	23.03
7206.00	24.05	AV	Н	35.74	4.82	25.60	39.01	54.00	14.99
			Ν	Middle Cha	nnel: 244	1 MHz			
2441.00	65.72	PK	Н	28.18	1.82	0.00	95.72	N/A	N/A
2441.00	63.41	AV	Н	28.18	1.82	0.00	93.41	N/A	N/A
2441.00	60.98	PK	V	28.18	1.82	0.00	90.98	N/A	N/A
2441.00	58.42	AV	V	28.18	1.82	0.00	88.42	N/A	N/A
4882.00	36.97	PK	Н	33.06	3.27	25.66	47.64	74.00	26.36
4882.00	24.26	AV	Н	33.06	3.27	25.66	34.93	54.00	19.07
7323.00	35.85	PK	Н	36.04	4.62	25.73	50.78	74.00	23.22
7323.00	23.89	AV	Н	36.04	4.62	25.73	38.82	54.00	15.18
				High Chan					
2480.00	67.08	PK	Н	28.26	1.84	0.00	97.18	N/A	N/A
2480.00	65.16	AV	Н	28.26	1.84	0.00	95.26	N/A	N/A
2480.00	61.75	PK	V	28.26	1.84	0.00	91.85	N/A	N/A
2480.00	59.27	AV	V	28.26	1.84	0.00	89.37	N/A	N/A
2483.50	29.18	PK	Н	28.27	1.84	0.00	59.29	74.00	14.71
2483.50	16.75	AV	Н	28.27	1.84	0.00	46.86	54.00	7.14
4960.00	36.75	РК	Н	33.22	3.23	25.63	47.57	74.00	26.43
4960.00	24.28	AV	Н	33.22	3.23	25.63	35.10	54.00	18.90
7440.00	35.94	РК	Н	36.34	4.41	25.85	50.84	74.00	23.16
7440.00	23.45	AV	Н	36.34	4.41	25.85	38.35	54.00	15.65



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FCC §15.247(a) (1)& RSS-247 CLAUSE 5.1 b) - CHANNEL SEPARATION TEST

Applicable Standard

According to FCC §15.247(a) (1), RSS-247 Clause 5.1 b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.50 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2020-06-29	2021-06-28
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Procedure

- 1. Set the EUT in transmitting mode, spectrum Bandwidth was set at 30 kHz, maxhold the channel.
- 2. Set the adjacent channel of the EUT maxhold another trace.
- 3. Measure the channel separation.

Test Data

Environmental Conditions

Temperature:	26.8°C
Relative Humidity:	49 %
ATM Pressure:	100.9kPa
Tester:	Tiger Mo
Test Date:	2021-04-28

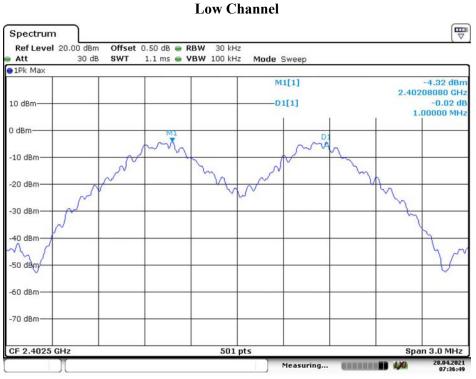
Test Result: Compliance. Please refer to following tables and plots

Test Mode: Transmitting

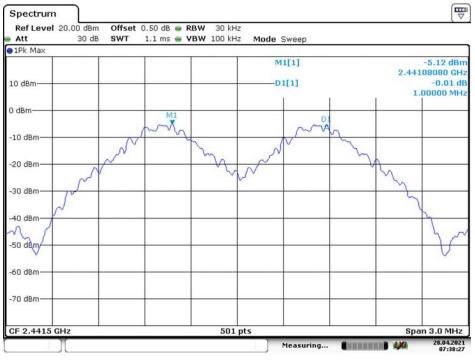
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
מסמ	Low	2402	1.000	0.65
BDR (GFSK)	Middle	2441	1.000	0.65
(GFSK)	High	2480	1.000	0.65
EDD	Low	2402	1.006	0.91
EDR (π/4-DQPSK)	Middle	2441	0.994	0.91
(M + DQI SK)	High	2480	1.000	0.91
EDR (8DPSK)	Low	2402	1.000	0.9
	Middle	2441	1.000	0.9
(001 5K)	High	2480	1.000	0.9

Note: $Limit = (2/3) \times 20dB$ bandwidth

BDR Mode (GFSK):



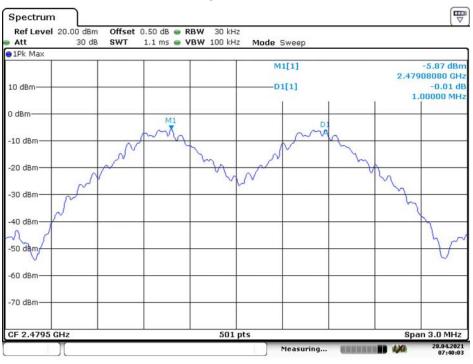
Date: 28.APR.2021 07:36:49



Middle Channel

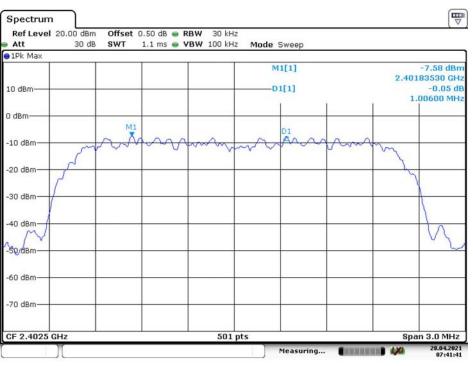
Date: 28.APR.2021 07:38:27

High Channel



Date: 28.APR.2021 07:40:03

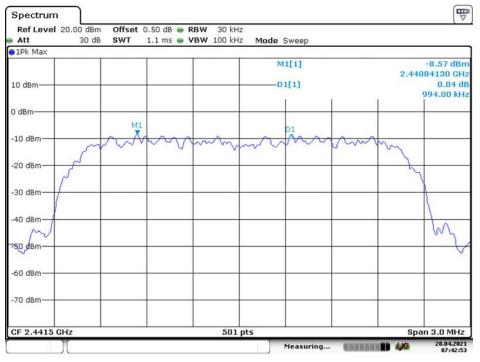
EDR Mode (π /4-DQPSK):



Low Channel

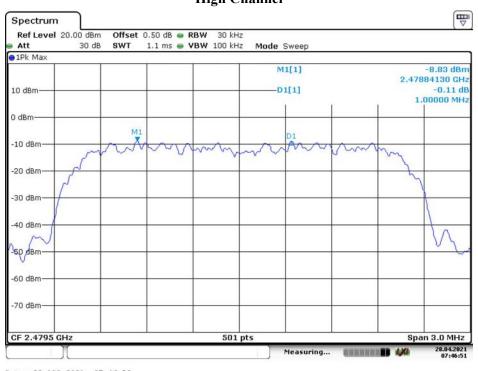
Date: 28.APR.2021 07:41:41

Middle Channel



Date: 28.APR.2021 07:42:53

Bay Area Compliance Laboratories Corp. (Dongguan)



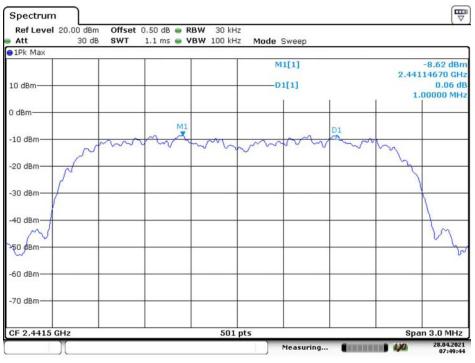
High Channel

Date: 28.APR.2021 07:46:52

EDR Mode (8DPSK):

Low Channel Spectrum Ref Level 20.00 dBm Offset 0.50 dB 🖷 RBW 30 kHz Att 30 dB SWT 1.1 ms 👄 VBW 100 kHz Mode Sweep ●1Pk Max M1[1] -7.63 dBm 2.40196710 GHz -D1[1] 0.00 dB 10 dBm 1.00000 MHz 0 dBm MI D1 -10 dBm -20 dBm--30 dBm 40 dBm -50 dBm -60 dBm -70 dBm-CF 2.4025 GHz 501 pts Span 3.0 MHz 28.04.2021 07:48:39 Measuring...

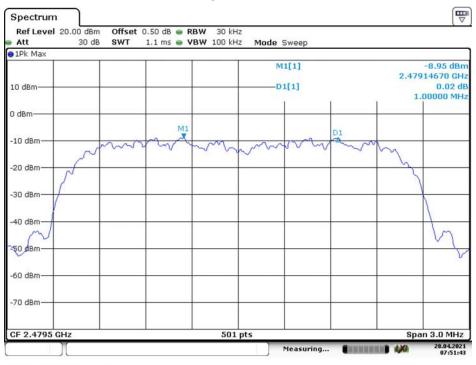
Date: 28.APR.2021 07:48:39



Middle Channel

Date: 28.APR.2021 07:49:45

High Channel



Date: 28.APR.2021 07:51:43

RSS-247 CLUASE 5.1&RSS-GEN CLAUSE 6.7 – 20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH TESTING

Applicable Standard

According to FCC §15.247(a) (1)

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.

According to RSS-247 Clause 5.1 b):

b) FHSs shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, FHSs operating in the band 2400-2483.5 MHz 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 that the systems operate with an output power no greater than 0.125 W.

According to RSS-Gen Clause 6.7:

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum inband power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

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 on the test table without connection to measurement instrument. Turn on the EUT. 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. Use Occupied bandwidth test function, measure the 99% Occupied bandwidth.
- 5. Repeat above procedures until all frequencies measured were complete.

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2020-06-29	2021-06-28
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

Test Equipment List and Details

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

Test Data

Environmental Conditions

Temperature:	26.8°C
Relative Humidity:	49%
ATM Pressure:	100.9kPa
Tester:	Tiger Mo
Test Date:	2021-04-28

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

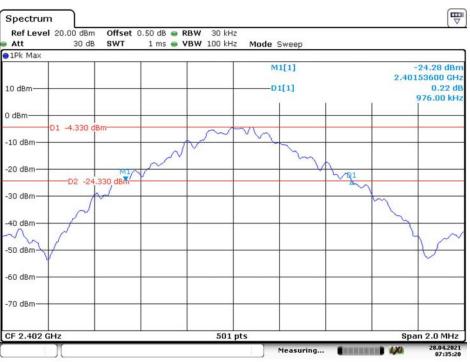
Bay Area Compliance Laboratories Corp. (Dongguan)

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% occupied Bandwidth (MHz)
	Low	2402	0.976	0.906
BDR Mode (GFSK)	Middle	2441	0.980	0.910
(015K)	High	2480	0.976	0.906
	Low	2402	1.372	1.202
EDR Mode $(\pi/4-DQPSK)$	Middle	2441	1.372	1.202
(MA DQI SIK)	High	2480	1.368	1.202
EDR Mode (8DPSK)	Low	2402	1.356	1.206
	Middle	2441	1.356	1.206
(001010)	High	2480	1.356	1.206

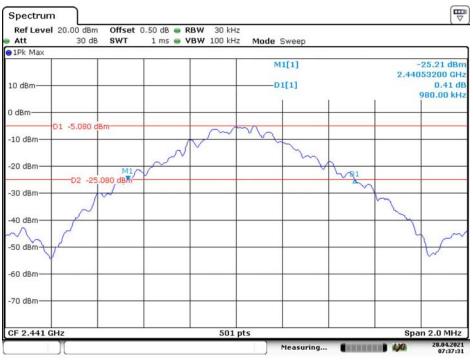
20dB Bandwidth:

BDR Mode (GFSK):



Low Channel

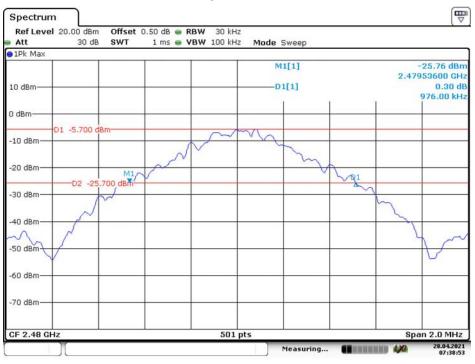
Date: 28.APR.2021 07:35:20



Middle Channel

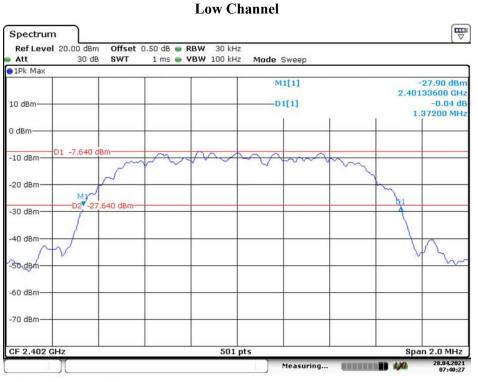
Date: 28.APR.2021 07:37:31

High Channel



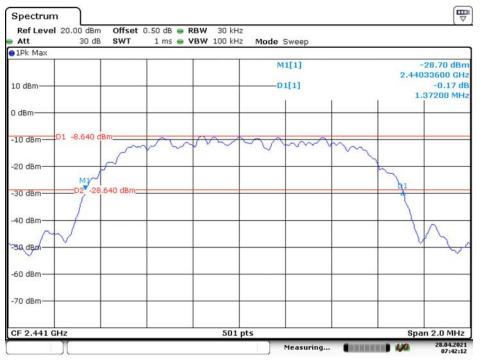
Date: 28.APR.2021 07:38:53

EDR Mode (π /4-DQPSK):

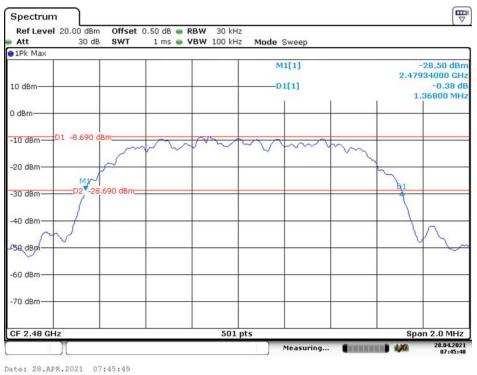


Date: 28.APR.2021 07:40:27

Middle Channel



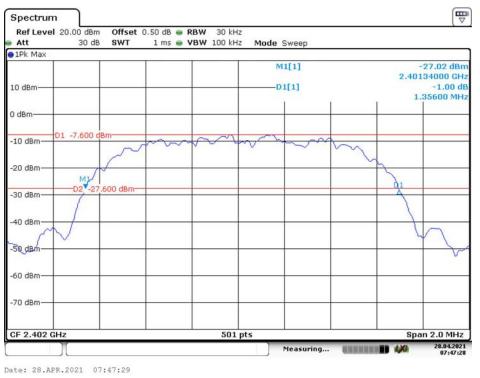
Date: 28.APR.2021 07:42:12

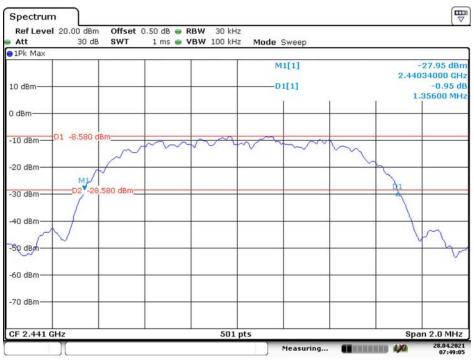


High Channel

EDR Mode (8DPSK):

Low Channel

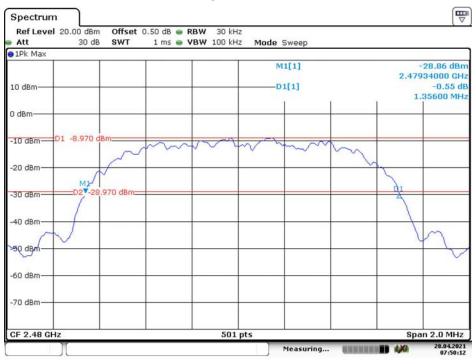




Middle Channel

Date: 28.APR.2021 07:49:05

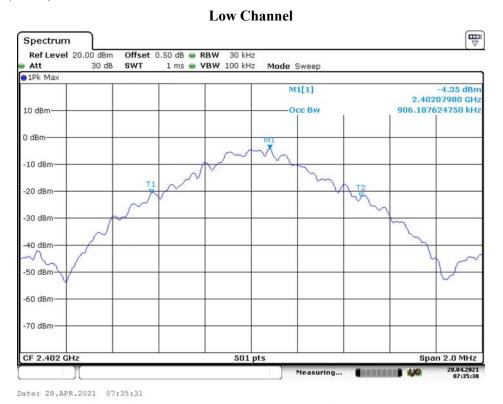
High Channel



Date: 28.APR.2021 07:50:12

99% Occupied Bandwidth:

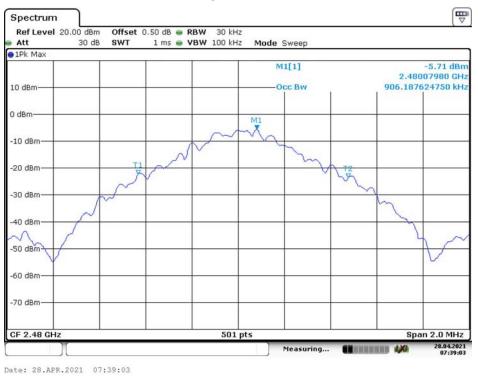
BDR Mode (GFSK):



Middle Channel

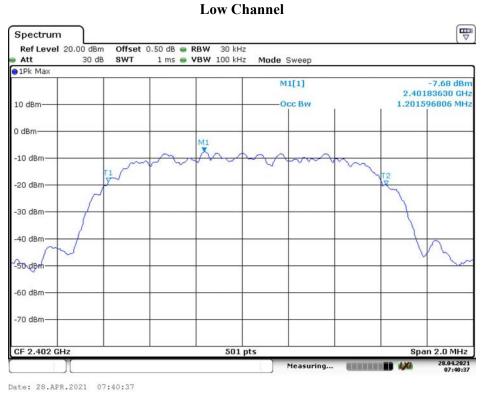


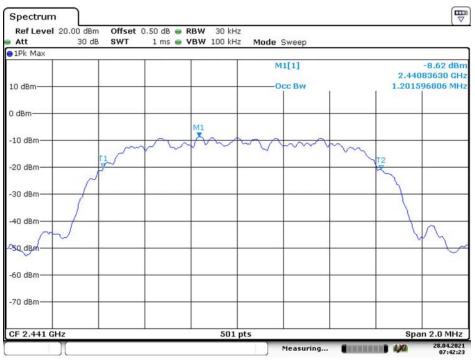
Page 32 of 55



High Channel

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

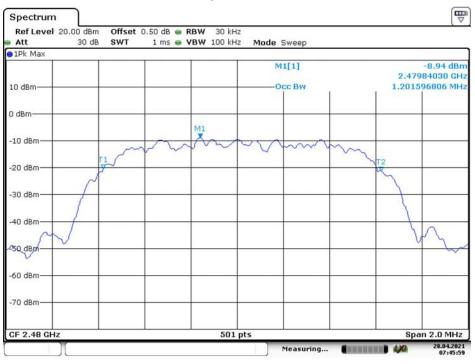




Middle Channel

Date: 28.APR.2021 07:42:23

High Channel



Date: 28.APR.2021 07:45:59

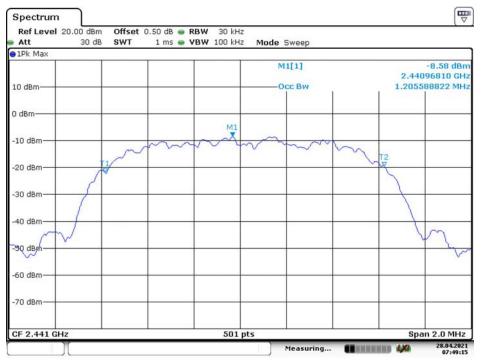
EDR Mode (8DPSK):



Low Channel

Date: 28.APR.2021 07:47:42

Middle Channel



Date: 28.APR.2021 07:49:15



High Channel

Date: 28.APR.2021 07:50:26

FCC §15.247(a) (1) (iii)& RSS-247 CLAUSE 5.1 d) - QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

According to FCC §15.247(a) (1) (iii), RSS-247 Clause 5.1 d)

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

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2020-06-29	2021-06-28
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Data

Environmental Conditions

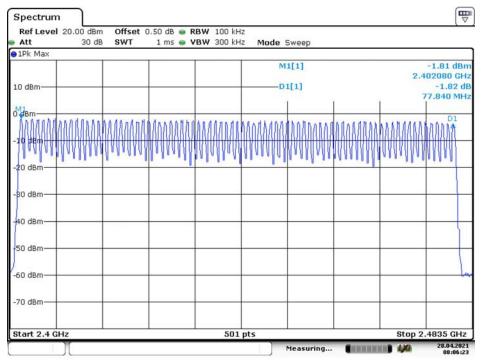
Temperature:	26.8°C
Relative Humidity:	49%
ATM Pressure:	100.9kPa
Tester:	Tiger Mo
Test Date:	2021-04-28

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

Bay Area Compliance Laboratories Corp. (Dongguan)

Test Mode: Transmitting

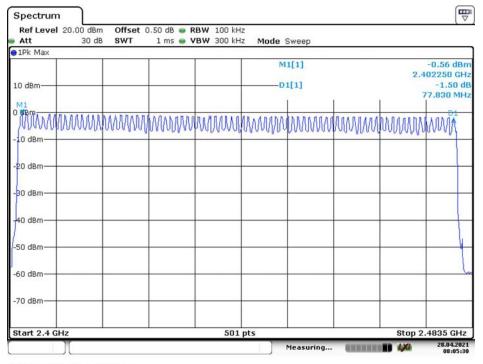
Test mode	Frequency Range (MHz)	Number of Hopping Channel	Limit
GFSK	2400-2483.5	79	≥15
π/4-DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15



GFSK

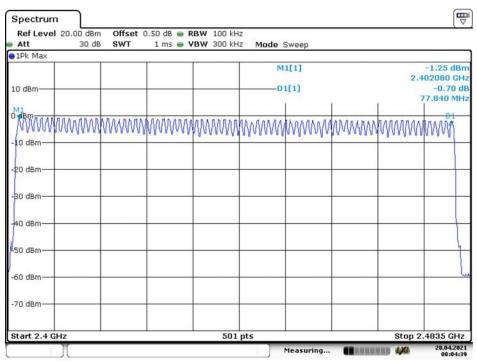
Date: 28.APR.2021 08:06:24

π/4-DQPSK



Date: 28.APR.2021 08:05:31

8DPSK



Date: 28.APR.2021 08:04:40

FCC §15.247(a) (1) (iii)& RSS-247 Clause 5.1 d) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

According to FCC §15.247(a) (1) (iii), RSS-247 Clause 5.1 d)

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

Test Procedure

The EUT was worked in channel hopping; the time of single pulses was tested.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2020-06-29	2021-06-28
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Data

Environmental Conditions

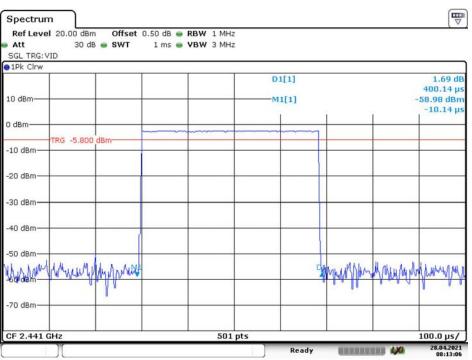
Temperature:	26.8°C
Relative Humidity:	49%
ATM Pressure:	100.9kPa
Tester:	Tiger Mo
Test Date:	2021-04-28

Bay Area Compliance Laboratories Corp. (Dongguan)

Test Mode: Transmitting

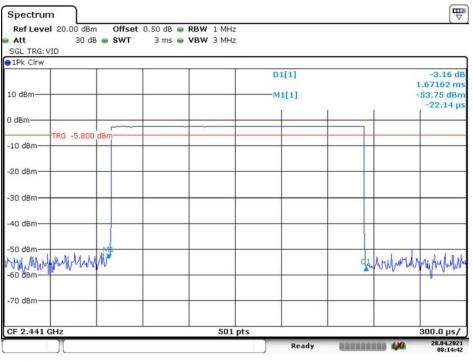
Mode	Packet Channel		Frequency	Puse width	Result	Limit	
Moue	type	Channel	(MHz)	(ms)	(s)	(s)	
	DH1	Middle	2441	0.4	0.128		
GFSK	DH3	Middle	2441	1.672	0.268		
	DH5	Middle	2441	2.928	0.312		
π/4-	2DH1	Middle	2441	0.412	0.132		
DQPSK	2DH3	Middle	2441	1.678	0.268	0.4	
DQFSK	2DH5	Middle	2441	2.948	0.314		
	3DH1	Middle	2441	0.415	0.133		
8DPSK	3DH3	Middle	2441	1.678	0.268		
	3DH5	Middle	2441	2.938	0.313		
Note:	Note:						
DH1:Dwell time=Pulse time (ms) \times (1600/2/79) \times 31.6 s							
DH3:Dwell t	ime=Pulse tin	$me (ms) \times (16)$	600/4/79) ×31.6 s				
DH5:Dwell t	ime=Pulse tin	$me (ms) \times (16)$	600/6/79) ×31.6 s				

BDR Mode (GFSK):



DH1: Middle Channel

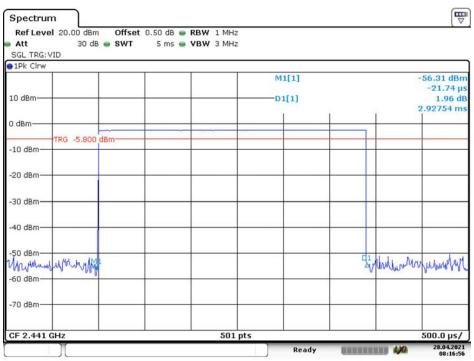
Date: 28.APR.2021 08:13:06



DH3: Middle Channel

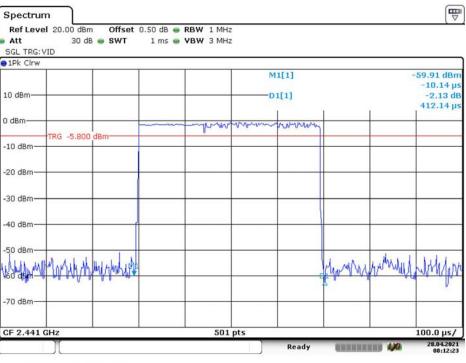
Date: 28.APR.2021 08:14:42

DH5: Middle Channel



Date: 28.APR.2021 08:16:56

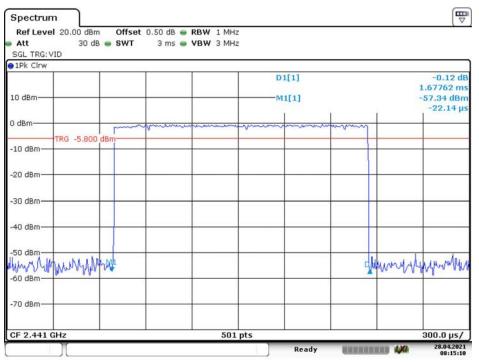
EDR Mode (π /4-DQPSK):



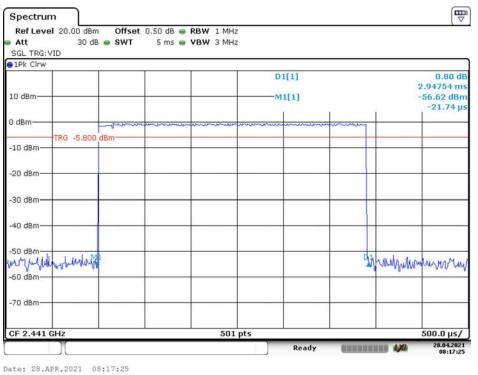
2DH1: Middle Channel

Date: 28.APR.2021 08:12:23

2DH3: Middle Channel



Date: 28.APR.2021 08:15:10

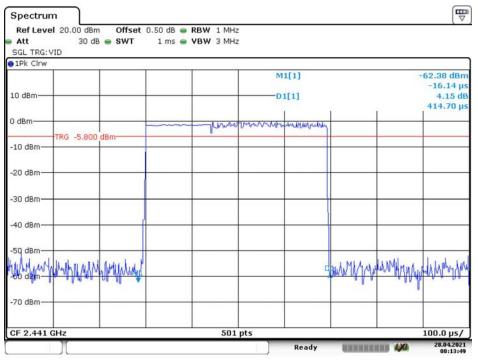


2DH5: Middle Channel

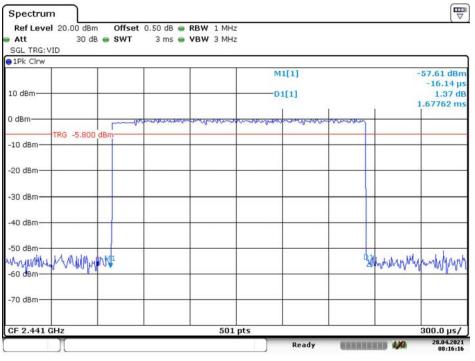
Date. 20.Art.2021 00

EDR Mode (8DPSK):

3DH1: Middle Channel



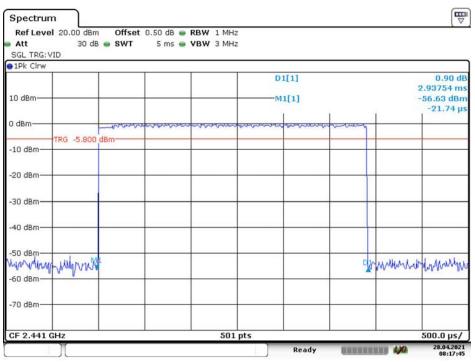
Date: 28.APR.2021 08:13:49



3DH3: Middle Channel

Date: 28.APR.2021 08:16:16

3DH5: Middle Channel



Date: 28.APR.2021 08:17:45

FCC §15.247(b) (1), RSS-247 Clause 5.4 b) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to FCC §15.247(b) (1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 nonoverlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

According to RSS-247 Clause 5.4 b)

b) For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

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.

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Coaxial Attenuators	EMCA10- 5RN-6	OE01203239	Each time	N/A
Agilent	USB Wideband Power Sensor	U2022XA	MY5417006	2020-09-12	2021-09-12

Test Equipment List and Details

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

Test Data

Environmental Conditions

49%
100.9kPa
Tiger Mo
2021-04-28

Test Result: Compliance.

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Peak Conducted Output power Limit (dBm)	EIRP (dBm)	EIRP Limit For ISED (dBm)
BDR Mode	2402	-1.28	21	-1.28	36
(GFSK)	2441	-2.04	21	-2.04	36
	2480	-2.25	21	-2.25	36
EDR Mode (π/4-DQPSK)	2402	1.05	21	1.05	36
	2441	0.12	21	0.12	36
	2480	-0.25	21	-0.25	36
	2402	1.60	21	1.60	36
EDR Mode (8DPSK)	2441	0.67	21	0.67	36
(odpsk)	2480	0.28	21	0.28	36

Test Mode: Transmitting

Note: The data above was tested in conducted mode, the antenna gain is 0 dBi.

FCC §15.247(d) & RSS-247 CLAUSE 5.5- BAND EDGES TESTING

Applicable Standard

According to FCC §15.247(d)

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)).

According to RSS-247 Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

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/ VBW of spectrum analyzer to 100/300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2020-06-29	2021-06-28
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

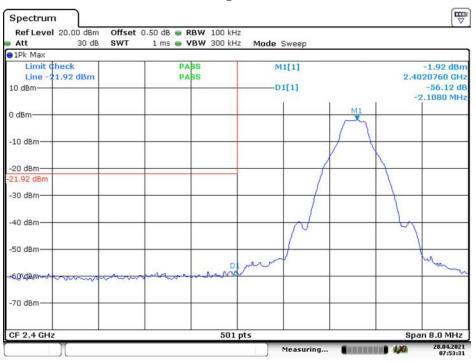
Test Data

Environmental Conditions

Temperature:	26.8°C	
Relative Humidity:	49%	
ATM Pressure:	100.9kPa	
Tester:	Tiger Mo	
Test Date:	2021-04-28	

Test Result: Compliance

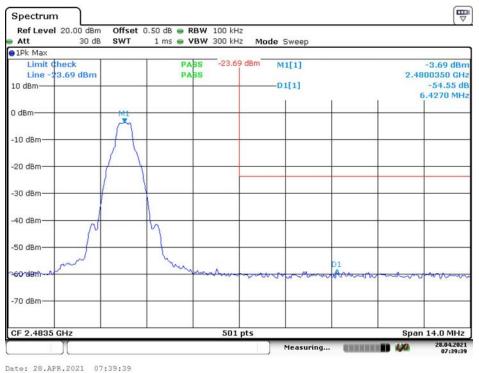
Single mode: BDR Mode (GFSK):



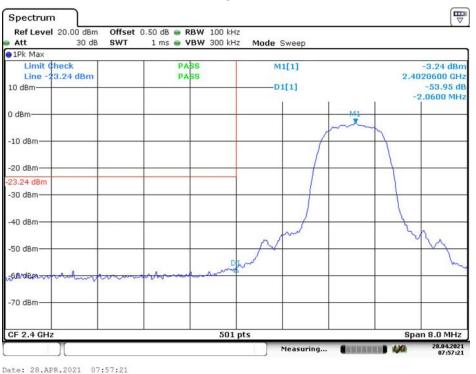
Band Edge, Left Side

Date: 28.APR.2021 07:53:31

Band Edge, Right Side

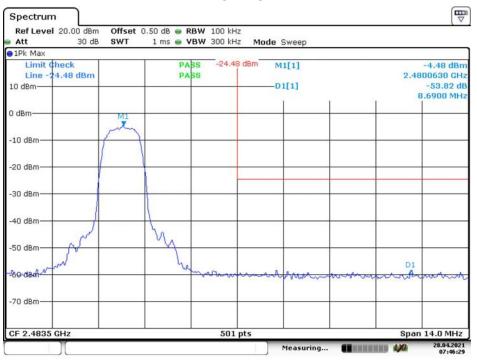


EDR Mode (π /4-DQPSK):



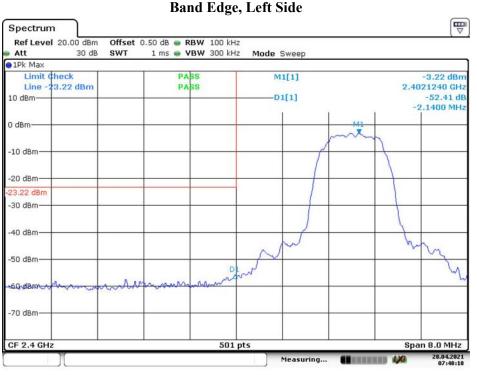
Band Edge, Left Side

Band Edge, Right Side



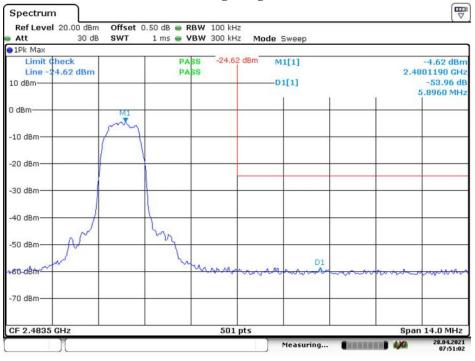
Date: 28.APR.2021 07:46:30

EDR Mode (8DPSK):



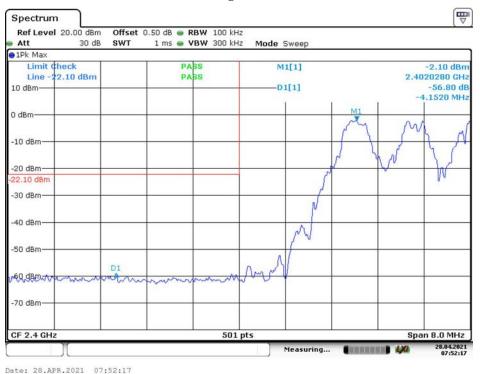
Date: 28.APR.2021 07:48:18

Band Edge, Right Side



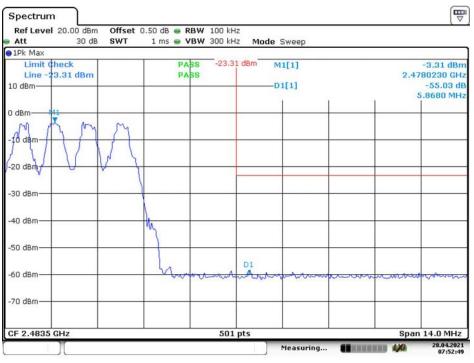
Date: 28.APR.2021 07:51:02

Hopping mode: BDR Mode (GFSK):



Band Edge, Left Side

Band Edge, Right Side



Date: 28.APR.2021 07:52:49

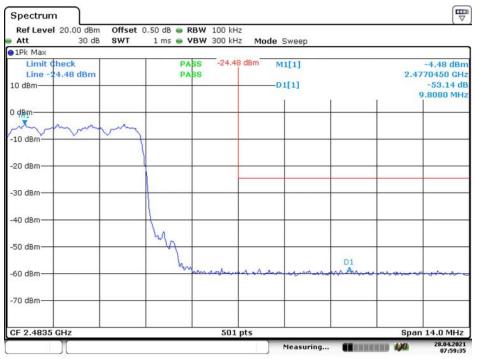
EDR Mode (π /4-DQPSK):

₽ Spectrum Ref Level 20.00 dBm Offset 0.50 dB 📾 RBW 100 kHz 1 ms 👄 VBW 300 kHz Att 30 dB SWT Mode Sweep ●1Pk Max Limit Check Line -20.51 dBm PASS M1[1] -0.51 dBn PASS 2.4038480 GHz -D1[1] 10 dBm--58.12 dB -3.9600 MHz M1 0 dBm-N m m -10 dBm--30 dBm--40 dBm-M -50 dBm-D1 58.dBm-A -70 dBm CF 2.4 GHz 501 pts Span 8.0 MHz 28.04.2021 07:56:56 Measuring...

Band Edge, Left Side

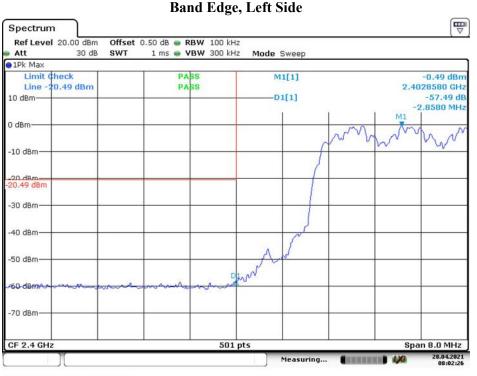
Date: 28.APR.2021 07:56:56

Band Edge, Right Side



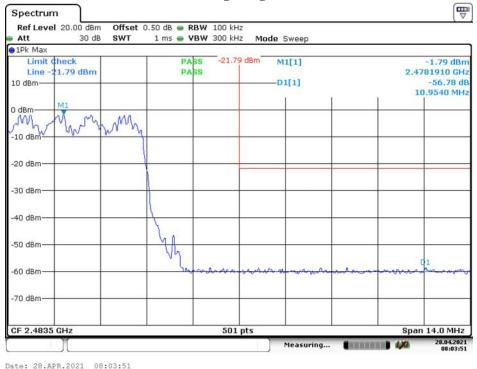
Date: 28.APR.2021 07:59:35

EDR Mode (8DPSK):



Date: 28.APR.2021 08:02:26

Band Edge, Right Side



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