



TEST REPORT

Applicant Name : Address : Report Number : FCC ID: DGL Group LTD. 2045 Lincoln Highway, 3rd floor, Edison, New Jersey 08817 SZ3220719-32748E-RF 2AANZ383IF-2

Test Standard (s) FCC PART 15.247

Sample Description

Product Type: Test Model: Date Received: Date of Test: Report Date: LED WIRELESS SPEAKER FB-383IF-ASST 2022-07-19 2022-08-08 to 2022-08-12 2022-08-13

Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Jeff Jiang EMC Engineer

Approved By:

Candy. Li

Candy Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk " \star ".

Shenzhen Accurate Technology Co., Ltd. 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 an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

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Shenzhen Accurate Technology Co., Ltd.

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Shenzhen Accurate Technology Co., Ltd.	Report No.: SZ3220719-32748E-RF
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APPLICABLE STANDARD	
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TEST DATA	

GENERAL INFORMATION

Product	LED WIRELESS SPEAKER
Tested Model	FB-383IF-ASST
Frequency Range	2402~2480MHz
Maximum conducted Peak output power	-0.35dBm
Modulation Technique	BDR(GFSK)/EDR(π/4-DQPSK)/EDR(8DPSK)
Antenna Specification*	Internal Antenna: -0.46dBi(provided by the applicant)
Voltage Range	DC5V from adapter or DC 3.7V from battery
Sample number	SZ3220719-32748E-RF-S1 (RF Radiated Test) SZ3220719-32748E-RF-S2 (RF Conducted Test)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission 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.

Test Methodology

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

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty		
Occupied Cha	nnel Bandwidth	5%		
RF Fre	equency	$0.082*10^{-7}$		
RF output po	wer, conducted	0.73dB		
Unwanted Emi	ssion, conducted	1.6dB		
AC Power Lines C	onducted Emissions	2.72dB		
	9kHz - 30MHz	2.66dB		
	30MHz - 1GHz	4.28dB		
Emissions, Radiated	1GHz - 18GHz	4.98dB		
Radiated	18GHz - 26.5GHz	5.06dB		
	26.5GHz - 40GHz	4.72dB		
Temperature		1°C		
Hun	nidity	6%		
Supply	voltages	0.4%		

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

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. 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.: 708358, the FCC Designation No.: CN1189.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

Software "FCC_assist_1.0.2.2"* was used during testing and the power level was 10*.

Special Accessories

N/A.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

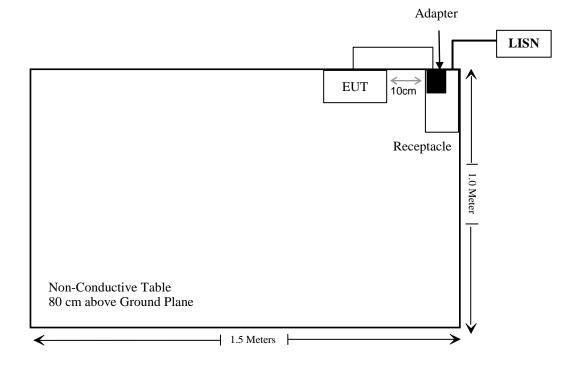
Manufacturer	Description	Model	Serial Number
Hisenes	Adapter	E010	1D050200VCU

External I/O Cable

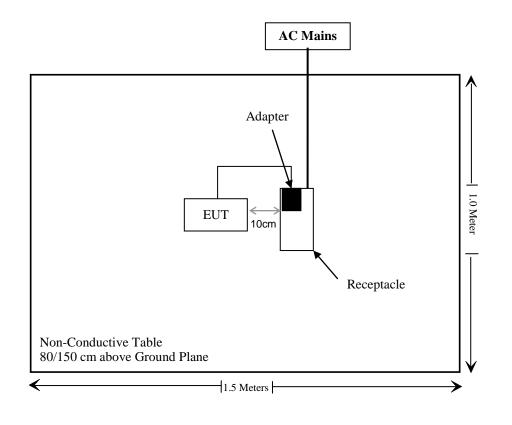
Cable Description	Length (m)	From/Port	То
Un-shielding Detachable USB Cable	0.5	EUT	Adapter
Unshielded Un-detachable AC cable	1.2	Receptacle	LISN

Block Diagram of Test Setup

For conducted emission:



For radiated emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247(i), §1.1307(b)	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	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth & 99% Occupied 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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
	Conducted E		tware: e3 19821b (V9)	
		Radiated Emissi	ons Test		
Rohde & Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
	Radiated Er	nission Test Soft	ware: e3 19821b (V	79)	
		RF Conducted	d Test		
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2021/12/13	2022/12/12
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.33	RF-03	Each	time

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.247 (i), §1.1307 (b) – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.2 – 1-mW test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

Test Result

For worst case:

Mode	Frequency	Maximum Tune-up Conducted Power		1-mW test
	(MHz)	(dBm)	(mW)	Exemption
BDR/EDR	2402-2480	0	1.0	Yes

Note: The tune-up power was declared by the applicant.

Result: Compliant.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

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

Antenna Connector Construction

The EUT has one Internal Antenna arrangement, which was permanently attached and the antenna gain is -0.46 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

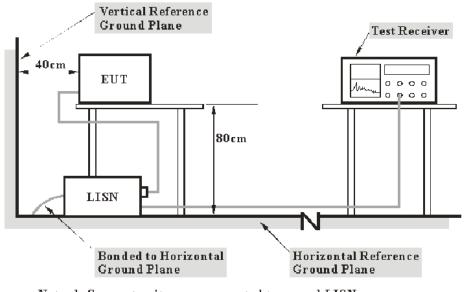
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

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

Test Procedure

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.

Factor & Margin Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

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

Over Limit = Level – Limit Level = Read Level + Factor

Test Data

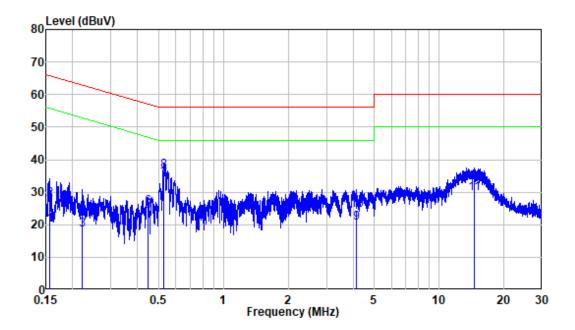
Environmental Conditions

Temperature:	24 °C	
Relative Humidity:	45 %	
ATM Pressure:	101.1 kPa	

The testing was performed by Jason Liu on 2022-08-08.

EUT operation mode: Charging + BT Transmitting

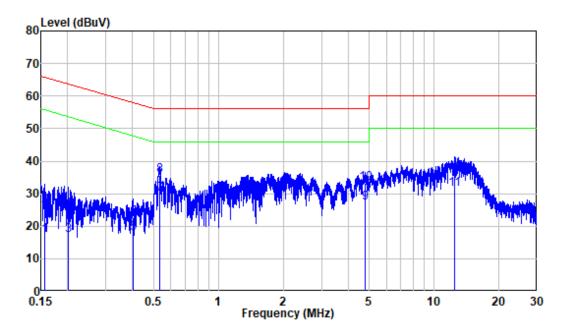
AC 120V/60 Hz, Line



Site	:	Shielding Room
Condition	:	Line
Mode	:	Charging + BT Transmitting
Model	:	FB-383IF-ASST
Power	:	AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	9.80	10.13	19.93	55.69	-35.76	Average
2	0.156	9.80	17.84	27.64	65.69	-38.05	QP
3	0.222	9.80	8.70	18.50	52.76	-34.26	Average
4	0.222	9.80	14.39	24.19	62.76	-38.57	QP
5	0.445	9.80	14.21	24.01	46.97	-22.96	Average
6	0.445	9.80	15.51	25.31	56.97	-31.66	QP
7	0.529	9.81	23.87	33.68	46.00	-12.32	Average
8	0.529	9.81	26.67	36.48	56.00	-19.52	QP
9	4.125	9.84	10.82	20.66	46.00	-25.34	Average
10	4.125	9.84	14.50	24.34	56.00	-31.66	QP
11	14.556	9.95	19.49	29.44	50.00	-20.56	Average
12	14.556	9.95	22.92	32.87	60.00	-27.13	QP -

AC 120V/60 Hz, Neutral



Shielding Room
Neutral
Charging + BT Transmitting
FB-383IF-ASST
AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.157	9.80	7.34	17.14	55.64	-38.50	Average
2	0.157	9.80	16.57	26.37	65.64	-39.27	QP
3	0.201	9.80	7.29	17.09	53.58	-36.49	Average
4	0.201	9.80	15.22	25.02	63.58	-38.56	QP
5	0.403	9.80	7.90	17.70	47.79	-30.09	Average
6	0.403	9.80	12.69	22.49	57.79	-35.30	QP
7	0.535	9.81	19.94	29.75	46.00	-16.25	Average
8	0.535	9.81	25.96	35.77	56.00	-20.23	QP
9	4.781	9.88	17.24	27.12	46.00	-18.88	Average
10	4.781	9.88	23.22	33.10	56.00	-22.90	QP
11	12.425	10.02	21.26	31.28	50.00	-18.72	Average
12	12.425	10.02	26.28	36.30	60.00	-23.70	QP

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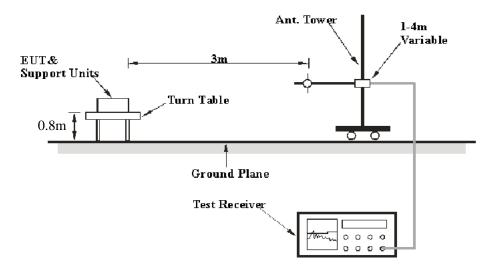
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

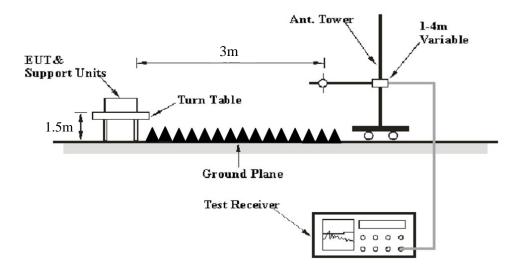
FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

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

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

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.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

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

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

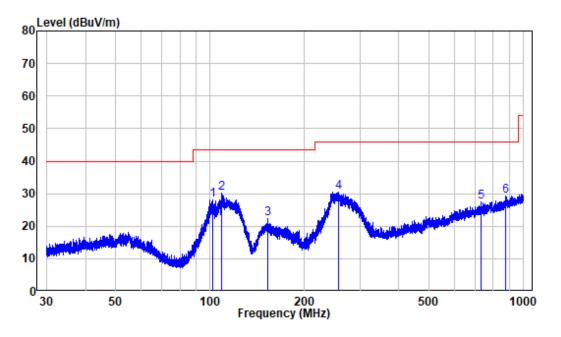
Temperature:	28 °C
Relative Humidity:	59 %
ATM Pressure:	101.1 kPa

The testing was performed by Level Li on 2022-08-09.

EUT operation mode: Transmitting

(Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK mode at X axis, Y axis, Z axis, the worst case is 8DPSK Mode at Y axis)

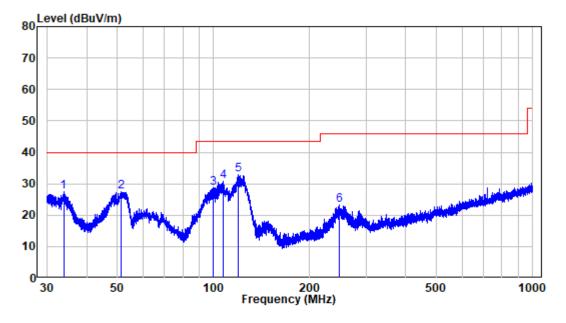
Below 1GHz: 8DPSK, High Channel:



Horizontal

Site : chamber Condition: 3m HORIZONTAL Job No. : SZ3220719-32748E-RF Test Mode: BT

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	101.689	-11.61	39.56	27.95	43.50	-15.55	Peak
2	108.504	-11.99	42.13	30.14	43.50	-13.36	Peak
3	152.464	-15.14	37.60	22.46	43.50	-21.04	Peak
4	256.971	-10.60	41.02	30.42	46.00	-15.58	Peak
5	734.169	-0.70	28.19	27.49	46.00	-18.51	Peak
6	876.015	1.18	28.11	29.29	46.00	-16.71	Peak



Vertical

Site : chamber Condition: 3m VERTICAL Job No. : SZ3220719-32748E-RF Test Mode: BT

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	33.873	-11.87	39.36	27.49	40.00	-12.51	Peak
2	51.166	-9.95	37.37	27.42	40.00	-12.58	Peak
3	99.572	-11.90	40.59	28.69	43.50	-14.81	Peak
4	107.510	-11.98	42.77	30.79	43.50	-12.71	Peak
5	119.541	-13.45	46.41	32.96	43.50	-10.54	Peak
6	247.031	-10.65	33.76	23.11	46.00	-22.89	Peak

Above 1GHz (worst case for 8DPSK):

Frequency	Receiver		Turntable	Rx Ar	Rx Antenna		Absolute Level	Limit	Margin	
(MHz)	Reading (dBuV)	PK/Ave	Angle Degree	Height (m)	Polar (H/V)	(dB /m)	(dBuV/m)	(dBuV/m)	(dB)	
	Low Channel									
2310	44.14	РК	211	1.4	Н	-7.23	36.91	74	-37.09	
2310	45.2	PK	159	1.9	V	-7.23	37.97	74	-36.03	
2390	47.11	PK	65	1.1	Н	-7.21	39.9	74	-34.10	
2390	50.73	PK	352	1.8	V	-7.21	43.52	74	-30.48	
4804	50.64	PK	66	1.3	Н	-3.52	47.12	74	-26.88	
4804	48.99	PK	185	1.3	V	-3.52	45.47	74	-28.53	
				Middle C	hannel					
4882	50.08	PK	210	1.7	Н	-3.37	46.71	74	-27.29	
4882	48.85	PK	252	1.6	V	-3.37	45.48	74	-28.52	
				High Ch	annel					
2483.5	55.72	PK	244	2.1	Н	-7.2	48.52	74	-25.48	
2483.5	45.43	PK	184	1.9	V	-7.2	38.23	74	-35.77	
2500	50.82	РК	146	1.9	Н	-7.18	43.64	74	-30.36	
2500	45.43	PK	318	1.7	V	-7.18	38.25	74	-35.75	
4960	49.48	РК	99	1.3	Н	-3.01	46.47	74	-27.53	
4960	50.17	PK	343	1.3	V	-3.01	47.16	74	-26.84	

Note:

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

Absolute Level (Corrected Amplitude) = Factor + Reading

Margin = Absolute Level (Corrected Amplitude) – Limit

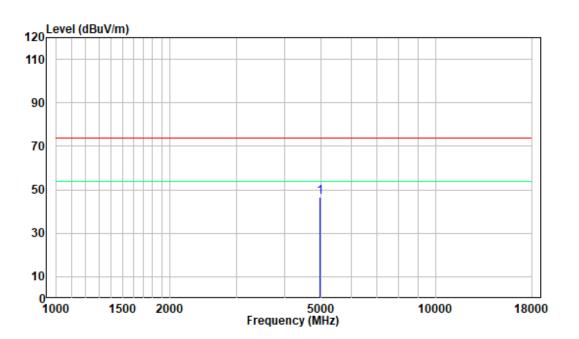
The other spurious emission which is in the noise floor level was not recorded.

For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

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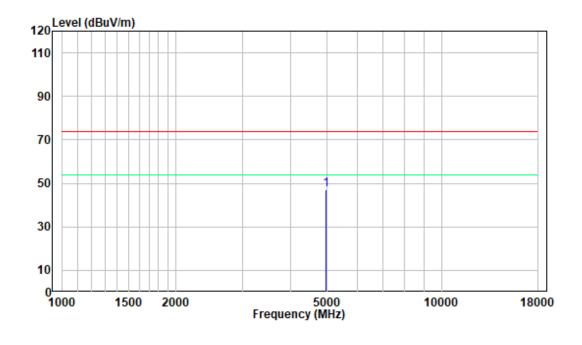
1 GHz - 18 GHz: (Pre-Scan plots)

Worst case for 8DPSK, High Channel:



Horizontal

Vertical

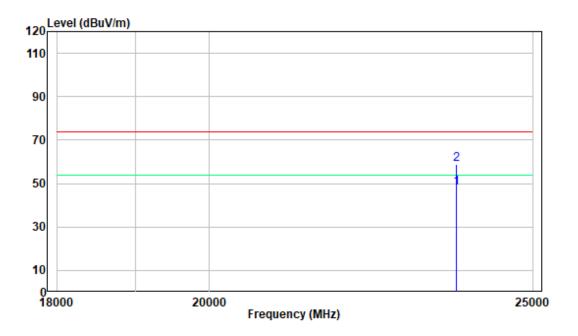


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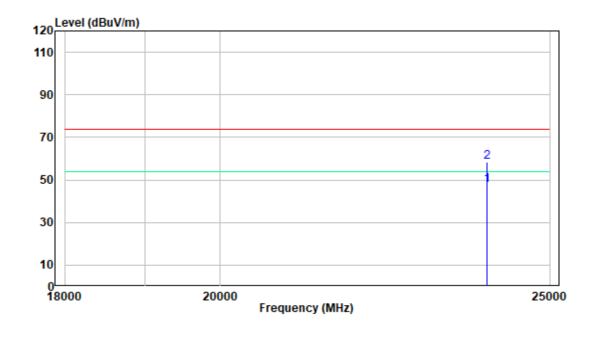
18-25GHz: (Pre-Scan plots)

Worst case for 8DPSK, High Channel:

Horizontal



Vertical



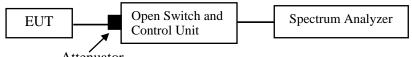
FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

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





Test Data

Environmental Conditions

Temperature:	23°C	
Relative Humidity:	49%	
ATM Pressure:	101.1kPa	

The testing was performed by Glenn. Jiang on 2022-08-11.

EUT operation mode: Transmitting

Test Result: Compliant.

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	1.003	>=0.716	PASS
2DH5	Ant1	Нор	1.003	>=0.902	PASS
3DH5	Ant1	Нор	1.003	>=0.868	PASS

Note: The limit = (2/3) * 20dB bandwidth

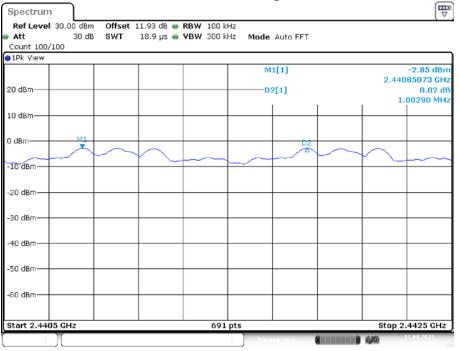
Please refer to the below plots:



DH5_Ant1_Hop

Shenzhen Accurate Technology Co., Ltd.

Report No.: SZ3220719-32748E-RF



3DH5_Ant1_Hop

Date: 11.AUG.2022 15:14:10

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH

Applicable Standard

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

Test Procedure

The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

• The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

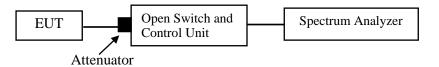
• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• 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 / 20 dB bandwidth if the device is not TX continuously.

• The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 20 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 Data

Environmental Conditions

Temperature:	23-25°C
Relative Humidity:	49-51 %
ATM Pressure:	101.1-101.2kPa

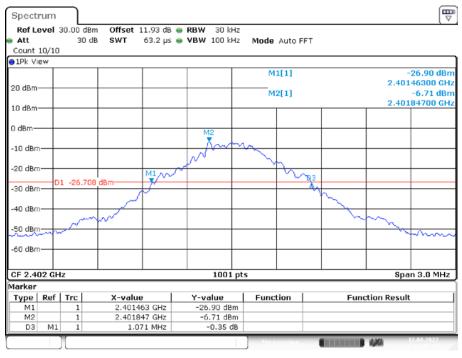
The testing was performed by Glenn. Jiang from 2022-08-11 to 2022-08-12.

EUT operation mode: Transmitting

Test Result: Compliant.

Test Mode	Antenna	Channel	20db EBW[MHz]	99% OCCUPIED BANDWIDTH[MHz]	Verdict
DH5	Ant1	2402	1.071	0.959	PASS
		2441	1.073	0.971	PASS
		2480	1.074	0.986	PASS
2DH5	Ant1	2402	1.344	1.229	PASS
		2441	1.344	1.244	PASS
		2480	1.353	1.253	PASS
3DH5	Ant1	2402	1.302	1.22	PASS
		2441	1.293	1.223	PASS
		2480	1.290	1.226	PASS

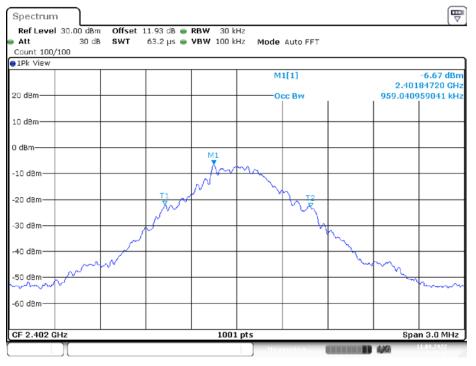
Please refer to the below plots:



20 dB EMISSION BANDWIDTH_DH5_Ant1_2402

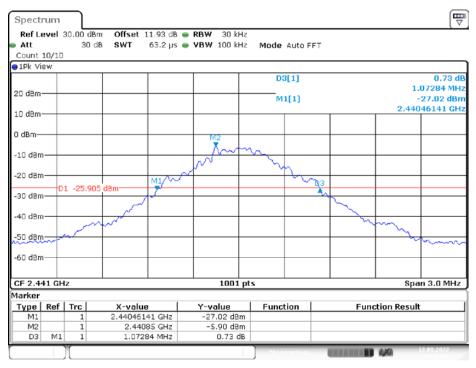
Date: 12.AUG.2022 13:40:23





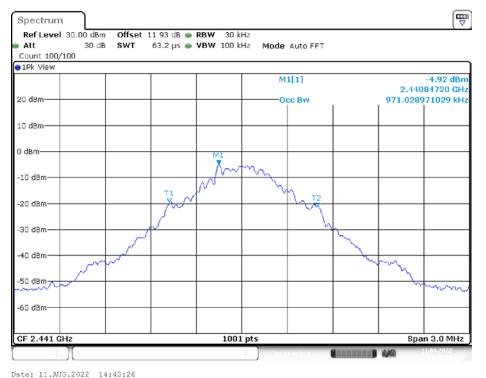
Date: 11.AUG.2022 14:38:43

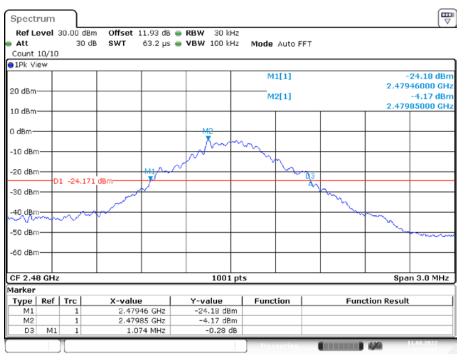




Date: 12.AUG.2022 13:42:08



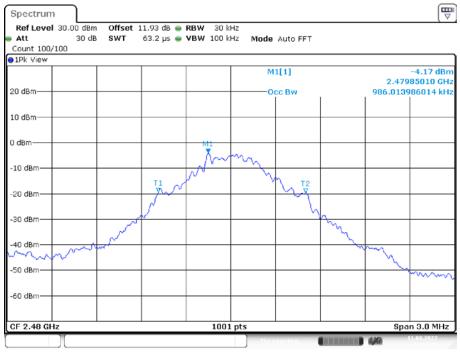




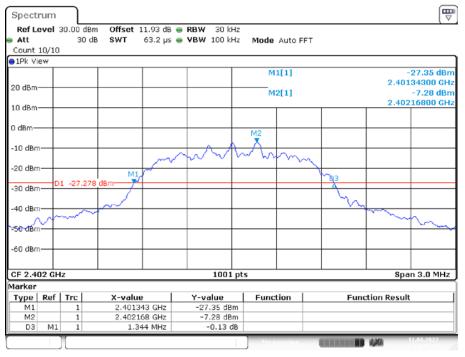
20 dB EMISSION BANDWIDTH_DH5 _Ant1_2480

Date: 11.AUG.2022 14:44:04

99% OCCUPIED BANDWIDTH_DH5 _Ant1_2480



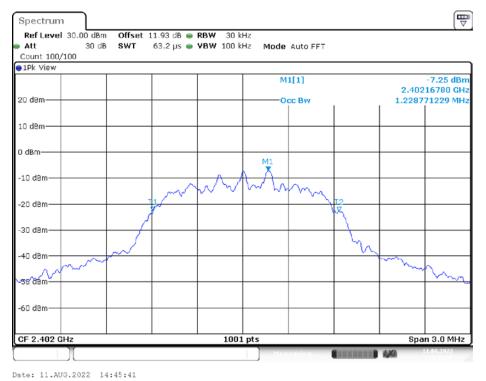
Date: 11.AUG.2022 14:44:21

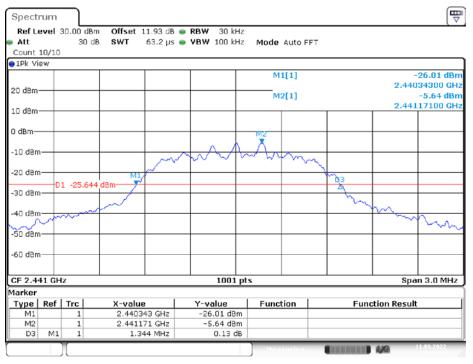


20 dB EMISSION BANDWIDTH_2DH5 _Ant1_2402

Date: 11.AUG.2022 14:45:24

99% OCCUPIED BANDWIDTH_2DH5 _Ant1_2402

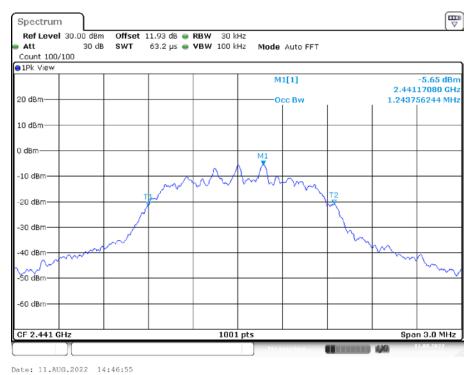


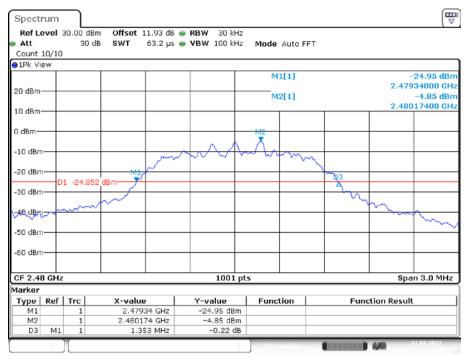


20 dB EMISSION BANDWIDTH_2DH5 _Ant1_2441

Date: 11.AUG.2022 14:46:38



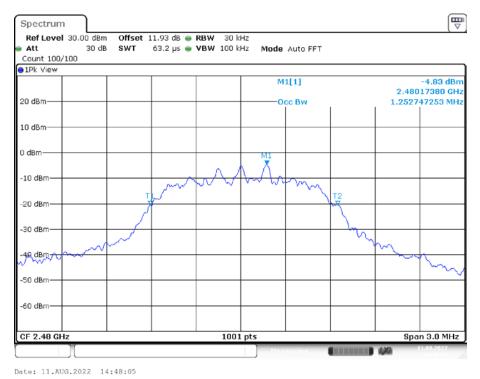


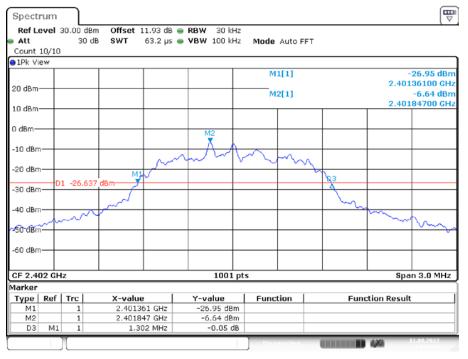


20 dB EMISSION BANDWIDTH _2DH5_Ant1_2480

Date: 11.AUG.2022 14:47:48

99% OCCUPIED BANDWIDTH _2DH5_Ant1_2480



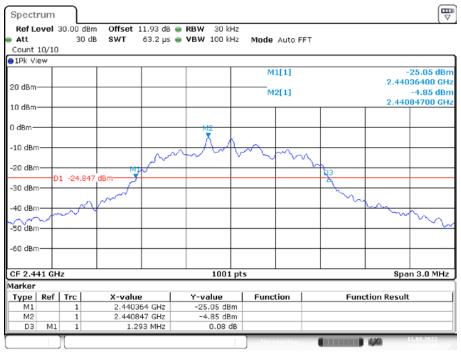


20 dB EMISSION BANDWIDTH_3DH5_Ant1_2402

Date: 11.AUG.2022 14:50:02

99% OCCUPIED BANDWIDTH_3DH5 _Ant1_2402

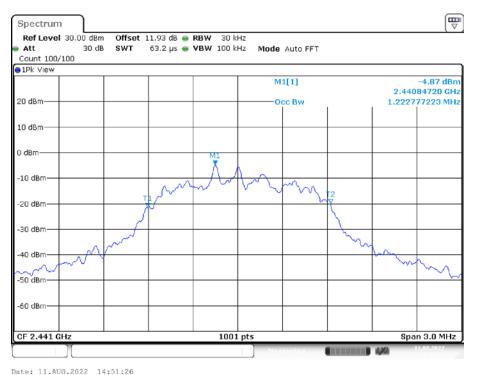


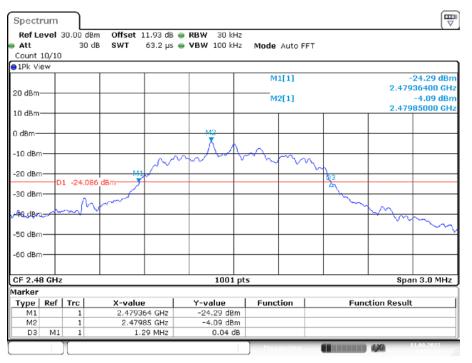


20 dB EMISSION BANDWIDTH_3DH5 _Ant1_2441

Date: 11.AUG.2022 14:51:09

99% OCCUPIED BANDWIDTH_3DH5 _Ant1_2441

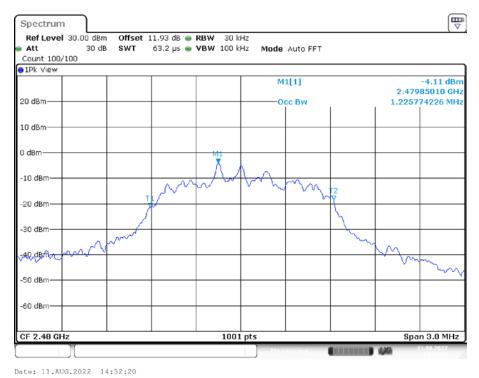




20 dB EMISSION BANDWIDTH_3DH5 _Ant1_2480

Date: 11.AUG.2022 14:52:03

99% OCCUPIED BANDWIDTH_3DH5 _Ant1_2480



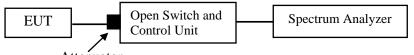
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

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

Test Procedure

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



Attenuator

Test Data

Environmental Conditions

Temperature:	23°C
Relative Humidity:	49%
ATM Pressure:	101.1kPa

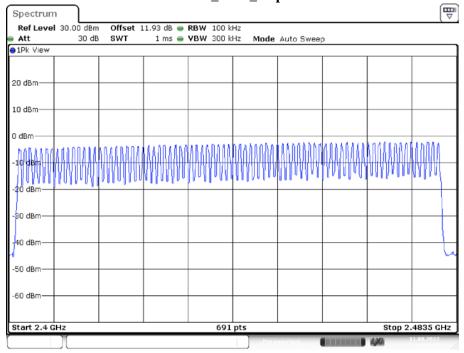
The testing was performed by Glenn. Jiang on 2022-08-11.

EUT operation mode: Transmitting

Test Result: Compliant.

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Нор	79	>=15	PASS
2DH5	Ant1	Нор	79	>=15	PASS
3DH5	Ant1	Нор	79	>=15	PASS

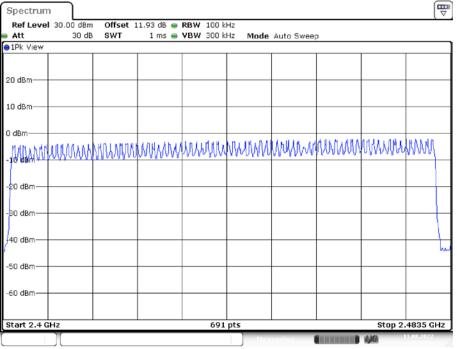
Please refer to the below plots:



DH5_Ant1_Hop

Date: 11.AUG.2022 14:55:07

2DH5_Ant1_Hop



Date: 11.AUG.2022 15:05:57

Att	30 dB	SWT	1 ms 😑	VBW	300 k	Hz Mode	Auto Swee	þ		
1Pk View			1				1	1		
20 dBm										
0 dBm										
	unn	nuum	hum	huh	um	uunu	mm	nunun	nunu	um
20 dBm										
30 dBm										
40 dBm										L L
50 dBm										
60 dBm										
tart 2.4 GH	17				691	nts			Stop 2	4835 GHz

3DH5_Ant1_Hop

Date: 11.AUG.2022 15:15:10

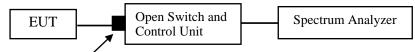
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

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

Test Procedure

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



Attenuator

Test Data

Environmental Conditions

Temperature:	23°C
Relative Humidity:	49%
ATM Pressure:	101.1kPa

The testing was performed by Glenn. Jiang on 2022-08-11.

EUT operation mode: Transmitting

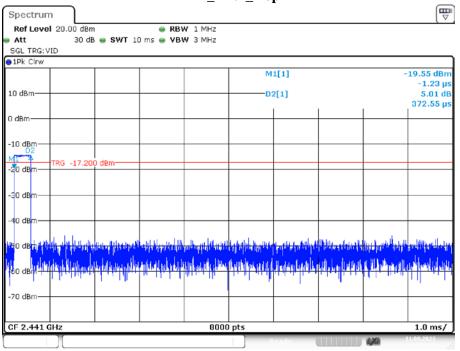
Test Result: Compliant.

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	330	0.123	<=0.4	PASS
DH3	Ant1	Нор	1.62	180	0.292	<=0.4	PASS
DH5	Ant1	Нор	2.86	100	0.286	<=0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.122	<=0.4	PASS
2DH3	Ant1	Нор	1.63	180	0.293	<=0.4	PASS
2DH5	Ant1	Нор	2.87	110	0.315	<=0.4	PASS
3DH1	Ant1	Нор	0.38	320	0.123	<=0.4	PASS
3DH3	Ant1	Нор	1.63	190	0.309	<=0.4	PASS
3DH5	Ant1	Нор	2.87	110	0.316	<=0.4	PASS

Note 1: A period time=0.4*79=31.6(s), Result=Burst Width*Total Hops

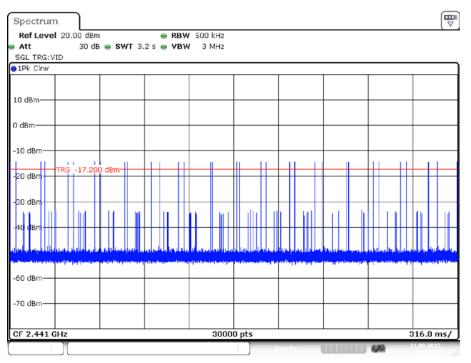
Note 2: Total Hops =Hopping Number in 3.16s*10

Note 3: Hoping Number in 3.16s=Total of highest signals in 3.16s (Second high signals were other channel)

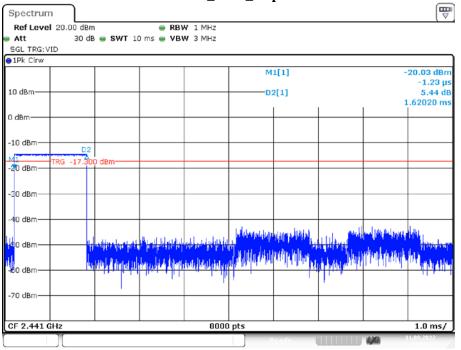


DH1_Ant1_Hop

Date: 11.AUG.2022 14:59:17

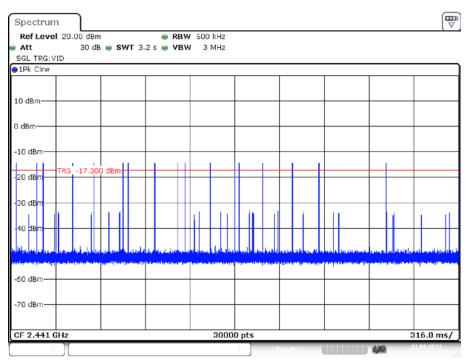


Date: 11.AUG.2022 14:59:22

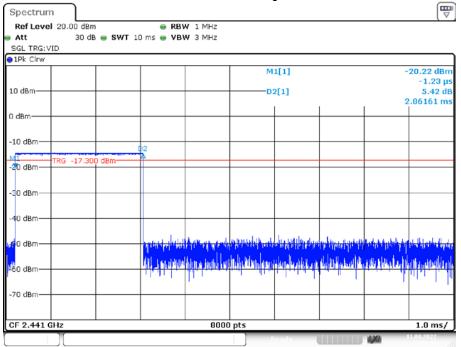


DH3_Ant1_Hop

Date: 11.AUG.2022 14:57:12

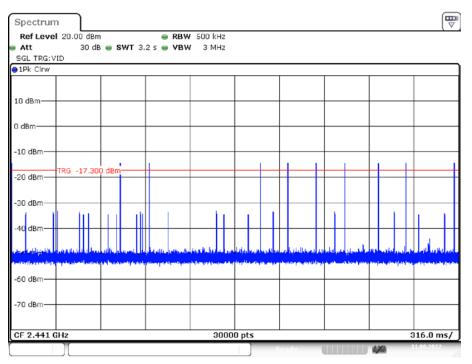


Date: 11.AUG.2022 14:57:18

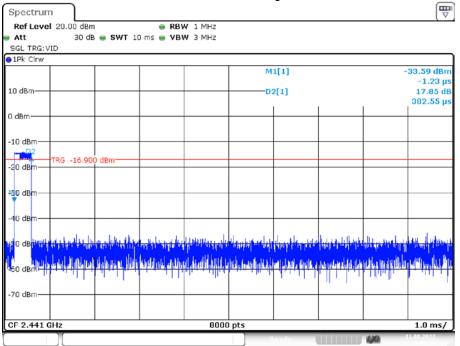


DH5_Ant1_Hop

Date: 11.AUG.2022 14:56:38

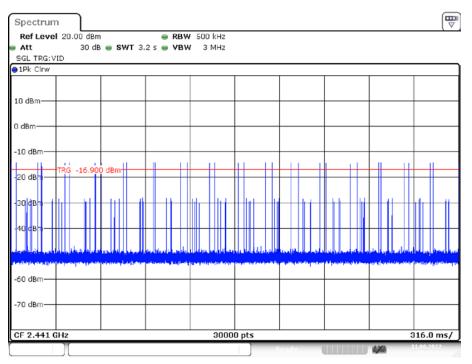


Date: 11.AUG.2022 14:56:43

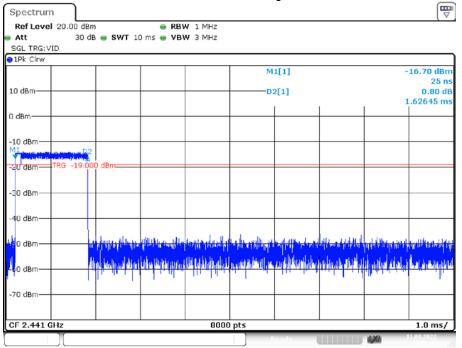


2DH1_Ant1_Hop

Date: 11.AUG.2022 15:07:19

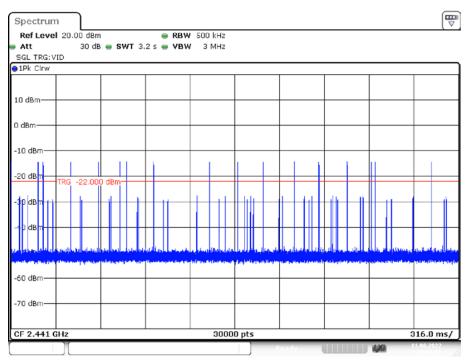


Date: 11.AUG.2022 15:07:24

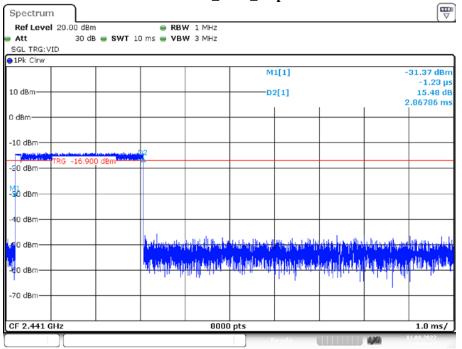


2DH3_Ant1_Hop

Date: 11.AUG.2022 15:06:46

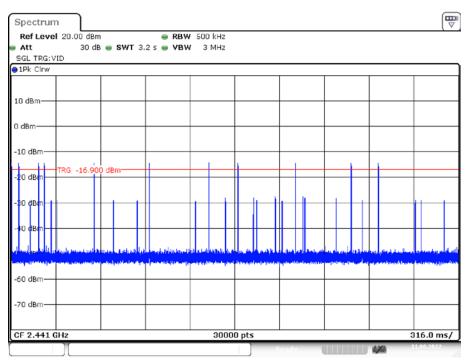


Date: 11.AUG.2022 15:06:51

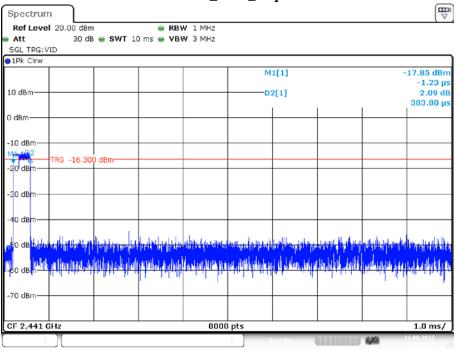


2DH5_Ant1_Hop

Date: 11.AUG.2022 15:06:16

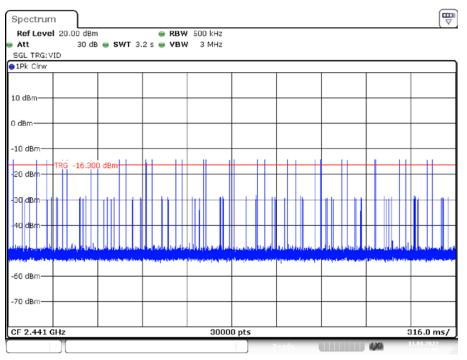


Date: 11.AUG.2022 15:06:21

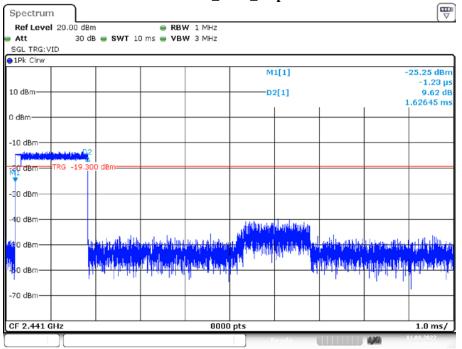


3DH1_Ant1_Hop

Date: 11.AUG.2022 15:16:54

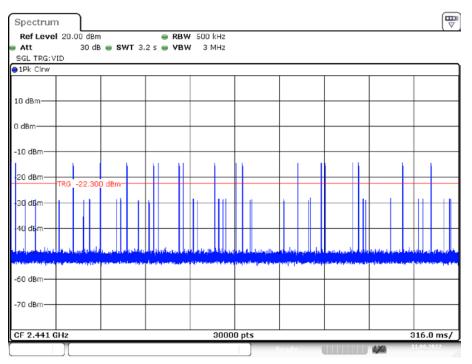


Date: 11.AUG.2022 15:16:59

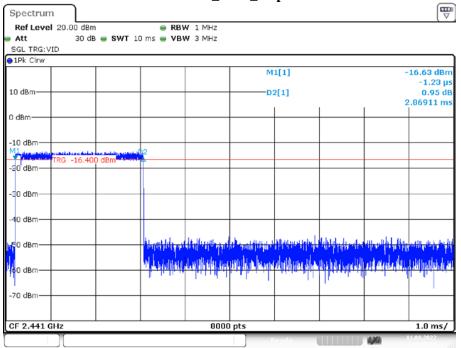


3DH3_Ant1_Hop

Date: 11.AUG.2022 15:16:04

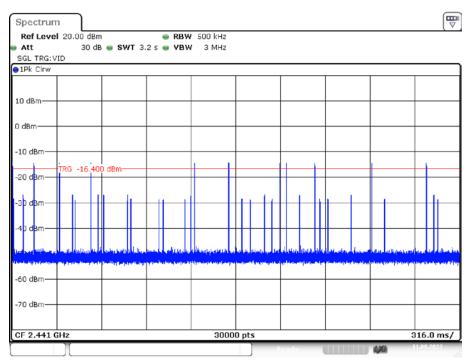


Date: 11.AUG.2022 15:16:09



3DH5_Ant1_Hop

Date: 11.AUG.2022 15:15:29



Date: 11.AUG.2022 15:15:34

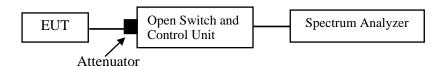
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

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

Test Procedure

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



Test Data

Environmental Conditions

Temperature:	23°C
Relative Humidity:	49 %
ATM Pressure:	101.1kPa

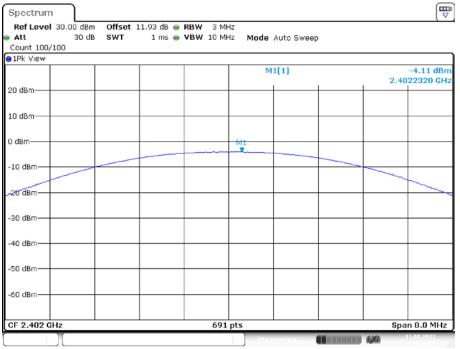
The testing was performed by Glenn. Jiang on 2022-08-11.

EUT operation mode: Transmitting

Test Result: Compliant.

Test Mode	Antenna	Channel	Conducted peak output power [dBm]	Limit[dBm]	Verdict
		2402	-4.11	<=20.97	PASS
DH5	Ant1	2441	-2.43	<=20.97	PASS
		2480	-1.58	<=20.97	PASS
	Ant1	2402	-3.25	<=20.97	PASS
2DH5		2441	-1.56	<=20.97	PASS
		2480	-0.81	<=20.97	PASS
		2402	-2.78	<=20.97	PASS
3DH5	Ant1	2441	-1.1	<=20.97	PASS
		2480	-0.35	<=20.97	PASS

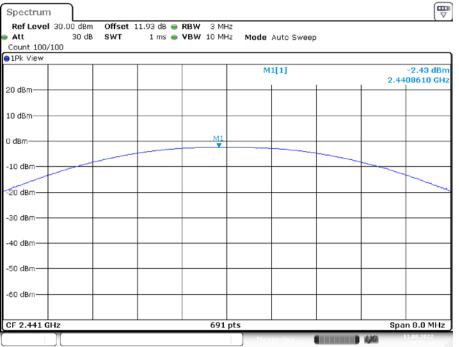
Please refer to the below plots:



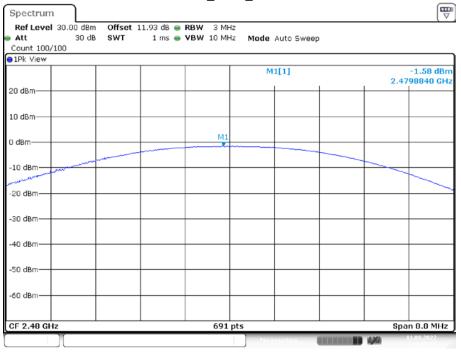
DH5_Ant1_2402

Date: 11.AUG.2022 14:23:51

DH5_Ant1_2441



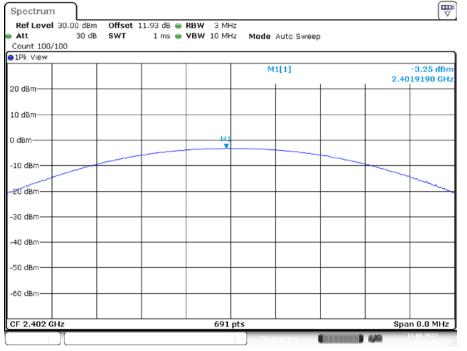
Date: 11.AUG.2022 14:25:15



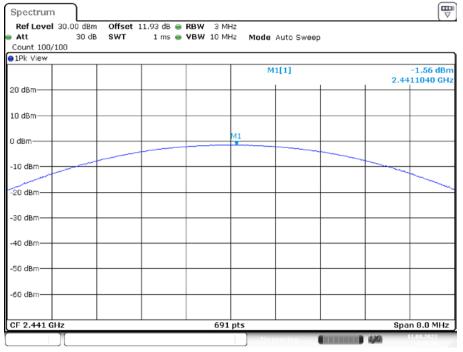
DH5_Ant1_2480

Date: 11.AUG.2022 14:25:36

2DH5_Ant1_2402



Date: 11.AUG.2022 14:26:46



2DH5_Ant1_2441

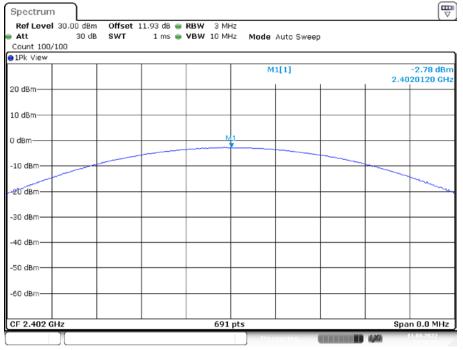
Date: 11.AUG.2022 14:28:30

2DH5_Ant1_2480

Spectrum Ref Level 30.00 dBm	Offset 11.93 dB	RBW 3 MHz		
Att 30 dB		VBW 10 MHz	Mode Auto Sweep	
Count 100/100				
1Pk View				
			M1[1]	-0.81 dBn 2.4797920 GH
20 dBm				2.4797920 GH
10 dBm				
		M1		
D dBm				
10 dBm				
whether				
-20 dBm				
-30 dBm				
-40 dBm				
-50 dBm				
-50 uBm				
-60 dBm				
				0.0.0 MU
CF 2.48 GHz		691 pts	Measuring	Span 8.0 MHz

Date: 11.AUG.2022 14:31:35

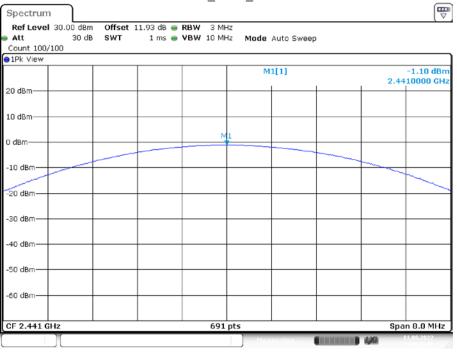
Report No.: SZ3220719-32748E-RF



3DH5_Ant1_2402

Date: 11.AUG.2022 14:32:34

3DH5_Ant1_2441



Date: 11.AUG.2022 14:36:47

	(*
MHz	
MHz Mode Auto Sweep	
M1[1]	-0.35 dBn 2.4796640 GH
	2.4790040 GH.
91 pts	Span 8.0 MHz
Measuring	11.08.2022
	MH2 Mode Auto Sweep M1[1]

3DH5_Ant1_2480

Date: 11.AUG.2022 14:37:11

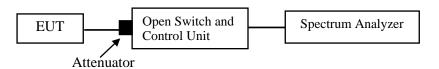
FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

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

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in TX 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°C
Relative Humidity:	49%
ATM Pressure:	101.1kPa

The testing was performed by Glenn. Jiang on 2022-08-11.

EUT operation mode: Transmitting

Test Result: Compliant

Please refer to the below plots:

DH5: Band Edge-Left Side Hopping

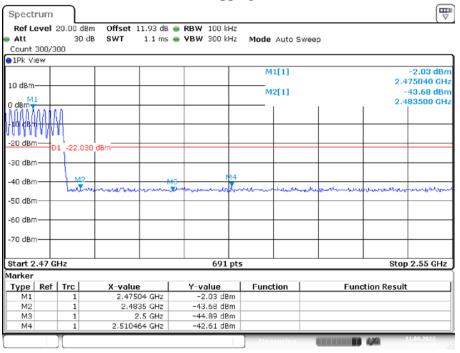
Spectrum						
Ref Level			3 🖷 RBW 100 kHz			
Att	30	dB SWT 246.5 µ։	5 👄 VBW 300 kHz	Mode Auto F	FT	
Count 300/3	300					
1Pk View						
I				M1[1]		-5.18 dBr
10 dBm —						2.402040 GH
				M2[1]		-48.90 dBr
) dBm						2.400000 GH
I						T.
10 dBm —						
						N N
20 dBm						
	01 -25.18	30 dBm				
30 dBm —						
40 dBm						
40 ubiii			14			M3 M2
strugen-	mbl marine	Ma some phinas and	durch men which	Anna way tam	فليصحيك لمعالمه	
I						
60 dBm —						
I						
70 dBm 🕂						
I						
Start 2.3 G	Ηz		691 pt	s		Stop 2.405 GHz
larker						
Type Ref	Trc	X-value	Y-value	Function	l Fu	nction Result
M1	1	2.40204 GHz	-5.18 dBm			
M2	1	2.4 GHz	-48.90 dBm			
MЗ	1	2.39 GHz	-50.09 dBm			
M4	1	2.353109 GHz	-46.80 dBm			
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Single

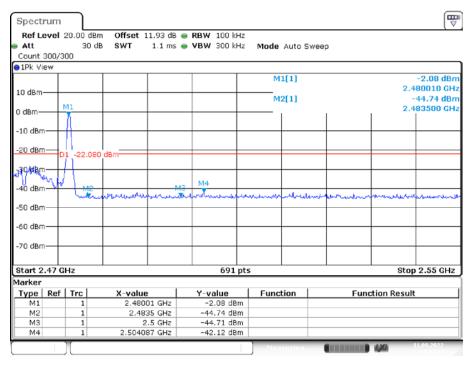
Ref Lo Att Count		20.00 dB 30 (RBW 100 kHz VBW 300 kHz 		FF⊤	
1Pk Vi		00						
LER TE						M1[1]		-4.65 dBn
10 dBm·								2.401880 GH
to abili						M2[1]		-50.59 dBn
0 dBm—								2.400000 GH
o abiii								
10 dBm	-							
-20 dBm				+				
		1 -24.65	i0 dBm					
-30 dBm	`+		+	+				
40 dBm								M3
dorably	under	المسمعات		hun an an	manual rendered	WARD IN LINE	المساحطة بالعالمطه	EM BM
00 081	" '		1.000		•			
-60 dBm	∩ _							
-70 dBm	∩ − ⊢							
Start 2	.3 GH	lz			691 pt	s		Stop 2.405 GHz
1arker						-		
Type	Ref	Trc	X-valu	ie	Y-value	Function	Eu	nction Result
M1	1101	1		188 GHz	-4.65 dBm	- unotion		del del recordence
M2		1		2.4 GHz	-50.59 dBm			
MЗ		1	2	.39 GHz	-48.14 dBm			
M4		1	2 201	978 GHz	-46.80 dBm			

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DH5: Band Edge- Right Side Hopping

Date: 11.AUG.2022 14:59:51

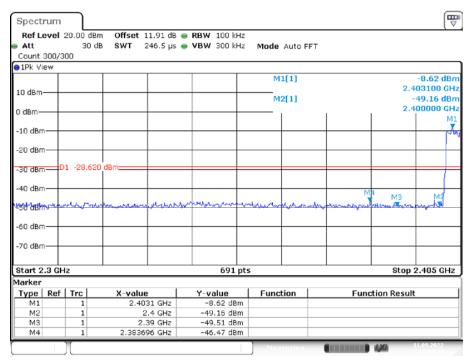


Single

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Version 11: 2021-11-09

2DH5: Band Edge-Left Side Hopping



Date: 11.AUG.2022 15:00:41

Single

	evel	20.00 dB		RBW 100 kHz					
Att		30 (:lB SWT 246.5 μs	👄 VBW 300 kHz	Mode Auto F	FFT			
Count		100							
1Pk Vi	ew								
					M1[1]		-4.91 dBr		
10 dBm	\rightarrow					2.401880 GH			
				M2[1]			-49.93 dBn		
0 dBm–	+					1	2.400000 GH		
-10 dBn	∩_+								
-20 dBn	· •		0 40						
30 dBn		1 -24.91	U dBm						
-su ubri									
-40 dBn									
40 abri	·				M4		M3 M2		
80 dBh	hush	4.the me	al march was all and	and the second states and the second se	Ty mar way	many the second period			
						•			
-60 dBn	∩—+-								
-70 dBn	∩——						+		
Start 2	.3 GF	łz		691 pt	5		Stop 2.405 GHz		
1arker					-				
Type	Pof	Tro	X-value	Y-value	Function	Eur	nction Result		
M1	Rot	1	2.40188 GHz	-4.91 dBm	Tunction	1 4	interior result		
		1	2.4 GHz		-49.93 dBm				
		1	2.39 GHz	-48.94 dBm					
M2 M3		1 1							

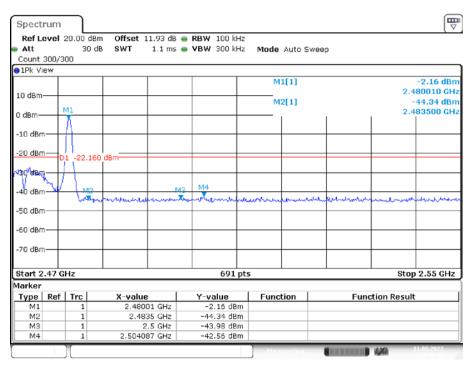
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2DH5: Band Edge- Right Side Hopping

Spectrum		offert 11 co di				(
Ref Level Att	20.00 dB 30 (8 RBW 100 kHz S KHz S KHz KHz KHz KHz KHz KHz KHz KHz			
Count 300/3		GB SWI 1.1 ms	s 🥌 VBW 300 KHZ	Mode Auto S	sweep	
1Pk View	000					
DIPK VIEW						o re do
				M1[1]		-2.16 dBn 2.477240 GH
10 dBm —				M2[1]		-43.99 dBn
M1				M2[1]		2.483500 GH
D dBm — 📊	Ch .				1	2.405500 GH
	91					
-20 dBm	1					
	1 -22.16	50 dBm				
-30 dBm —	\rightarrow					
				M4		
-40 dBm —	M2		M3			and
	- Contraction					
-50 dBm						
-60 dBm						
-00 ubiii						
-70 dBm						
Start 2.47 G	Hz		691 pt	<u> </u>		Stop 2.55 GHz
larker			000 pt			
	Trc	X-value	Y-value	Function	Fu	nction Result
M1	1	2.47724 GHz	-2.16 dBm			
M2	1	2.4835 GHz	-43.99 dBm			
M3	1	2.5 GHz	-43.93 dBm			
M4	1	2.521594 GHz	-41.62 dBm			

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Single



Date: 11.AUG.2022 14:48:20

Version 11: 2021-11-09

3DH5: Band Edge-Left Side Hopping

Spectrun	1)					
Ref Leve			3 👄 RBW 100 kHz			
Att		0 dB SWT 246.5 µ:	s 👄 VBW 300 kHz	Mode Auto P	FT	
Count 300,	/300					
1Pk View						
				M1[1]		-5.14 dBn
10 dBm						2.402950 GH
				M2[1]		-48.27 dBn
0 dBm						2.400000 GH
						1 1
-10 dBm						- M
00 IB						
-20 dBm						
-30 dBm	01 -25.	140 dBm				
SU UBIII						
-40 dBm			M4			
						M3 M2
SO dBm	mun	monghammente	~ man parting	Malan the Marin	- Mary Minuberry	without and hand
-60 dBm						
-70 dBm						
-70 asm—						
Start 2.3 G	Hz		691 pt	S		Stop 2.405 GHz
larker						
	f Trc	X-value	Y-value	Function	Fur	nction Result
M1	1	2.40295 GHz	-5.14 dBm			
M2	1	2.4 GHz	-48.27 dBm			
	1	2.39 GHz	-47.86 dBm			
M3 M4	1	2.349 GHz	-46.07 dBm			

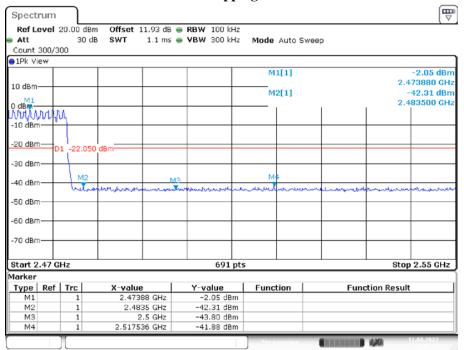
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Single

Spectrum								
Ref Level				• RBW 100 kHz				
Att	30	dB SWT 2	46.5 µs 🧃	• VBW 300 kHz	Mode Auto F	FFT		
Count 300/	300							
1Pk View								
					M1[1]			-5.21 dBr
10 dBm —								401880 GH
					M2[1]			-49.91 dBr
) dBm —						1	2.5	100000 <mark>GH</mark>
10 dBm								1 1
20 dBm								
	D1 -25.2	10 dBm						
30 dBm	DI -25.2	TO UBIII						
								1 14
-40 dBm							M4	+
							M	M
SQ-q9w	wandre	and the second s	ومعاليم تكور	planningtoned	and the shore of the second	han and a second	w the second states and	and a spiller
60 dBm								
70 dBm								
Start 2.3 G	115						Eton	2.405 GHz
larker	12			691 pt	5		Stop	2.403 GHZ
	I True I			V	Function	L 5.		
Type Ret M1	Trc 1	X-value 2.4018		Y-value -5.21 dBm	Function	Fu	nction Resul	ι
M2	1		4 GHz	-49.91 dBm				
M3	1		9 GHz	-50.39 dBm				
M4	1	2.39069		-46.86 dBm				

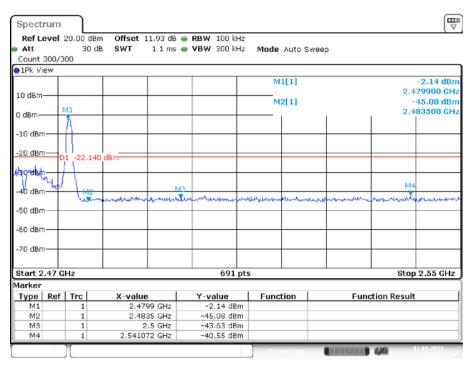
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3DH5: Band Edge- Right Side Hopping



Date: 11.AUG.2022 15:17:51

Single



Date: 11.AUG.2022 14:52:35

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

Version 11: 2021-11-09