

Test Report

Report No. : CQASZ20230500745E-01
Applicant: Shenzhen Nito Power Source Technology Co., Ltd.
Address of Applicant: 201, No. 8 Building, No. 49 WuheNan Rd., Jinfanghua Electricity industrial Park, Bantian St., Longgang District, Shenzhen
Equipment Under Test (EUT):
Product: Car Wireless FM Transmitter
Model No.: JR-CCB01
Test Model No.: JR-CCB01
Brand Name: JOYROOM
FCC ID: 2BA8X-JR-CCB01
Standards: 47 CFR Part 15, Subpart C
Date of Receipt: 2023-5-9
Date of Test: 2023-5-9 to 2023-5-30
Date of Issue: 2023-6-7
Test Result : PASS*

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

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20230500745E-01	Rev.01	Initial report	2023-6-7

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	/	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10-2013	N/A
Conducted Peak Output Power	47 CFR Part 15.207	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Carrier Frequencies Separation	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Hopping Channel Number	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Radiated Spurious emissions	47 CFR Part 15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Nito Power Source Technology Co., Ltd.
Address of Applicant:	201, No. 8 Building, No. 49 WuheNan Rd., Jinfanghua Electricity industrial Park, Bantian St., Longgang District, Shenzhen
Manufacturer:	Shenzhen Nito Power Source Technology Co., Ltd.
Address of Manufacturer:	201, No. 8 Building, No. 49 WuheNan Rd., Jinfanghua Electricity industrial Park, Bantian St., Longgang District, Shenzhen
Factory:	Dongguan Deruichen Electronics Co., Ltd.
Address of Factory:	Deruichen Industrial Park, Wuxing Road, Changping Town, Dongguan, Guangdong, China

4.2 General Description of EUT

Product Name:	Car Wireless FM Transmitter
Model No.:	JR-CCB01
Test Model No.:	JR-CCB01
Trade Mark:	JOYROOM
Software Version:	V1.0
Hardware Version:	V.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.3
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☒ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	FCCAssist 2.4
Antenna Type:	PCB antenna
Antenna Gain:	2.12dBi
Power Supply:	Charge by DC 12V
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report. ☐ Simultaneous TX is not supported.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

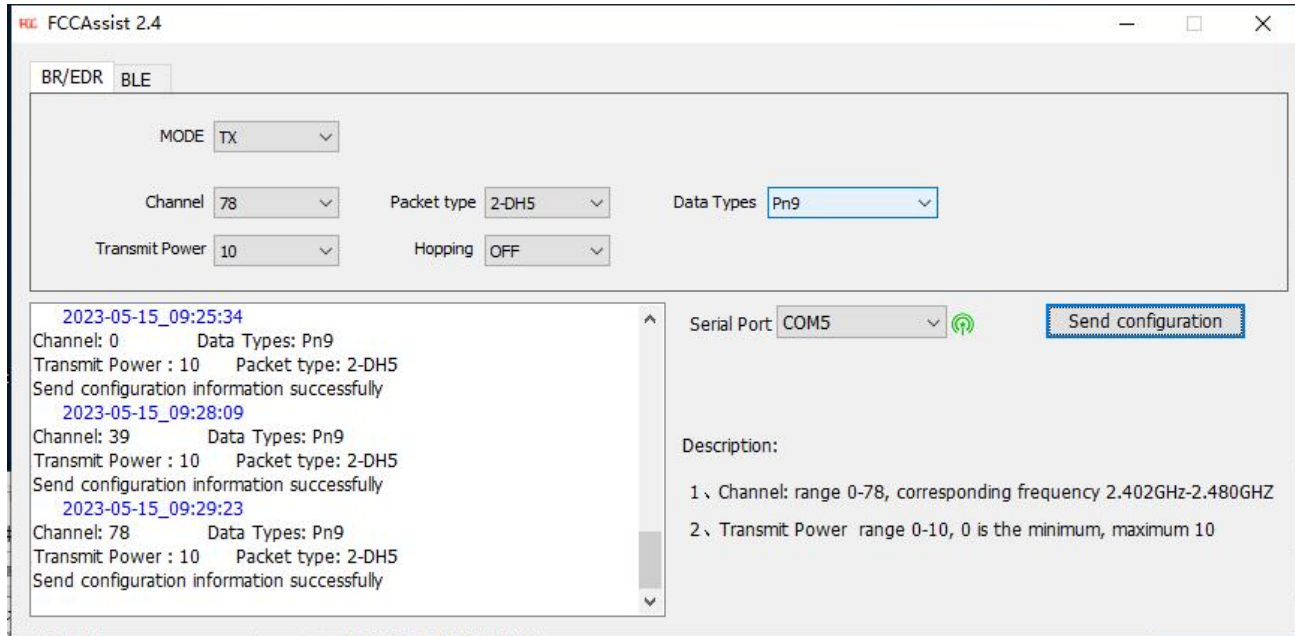
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

4.3 Additional Instructions

EUT Test Software Settings:		
Mode:	☒ Special software is used. ☐ Through engineering command into the engineering mode. engineering command: ***#3646633#** *	
EUT Power level:	(Power level is built-in set parameters and cannot be changed and selected)	
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		
Mode	Channel	Frequency(MHz)
DH1/DH3/DH5	CH0	2402
	CH39	2441
	CH78	2480
2DH1/2DH3/2DH5	CH0	2402
	CH39	2441
	CH78	2480

Run Software:



The screenshot shows the FCCAssist 2.4 software interface. At the top, there are tabs for 'BR/EDR' and 'BLE'. Below these, there are several configuration fields: 'MODE' set to 'TX', 'Channel' set to '78', 'Packet type' set to '2-DH5', 'Data Types' set to 'Pn9', 'Transmit Power' set to '10', and 'Hopping' set to 'OFF'. A 'Send configuration' button is visible on the right. The bottom section contains a log of configuration attempts, showing successful sends for channels 0, 39, and 78. The 'Serial Port' is set to 'COM5'.

BR/EDR BLE

MODE TX

Channel 78 Packet type 2-DH5 Data Types Pn9

Transmit Power 10 Hopping OFF

2023-05-15_09:25:34
Channel: 0 Data Types: Pn9
Transmit Power : 10 Packet type: 2-DH5
Send configuration information successfully

2023-05-15_09:28:09
Channel: 39 Data Types: Pn9
Transmit Power : 10 Packet type: 2-DH5
Send configuration information successfully

2023-05-15_09:29:23
Channel: 78 Data Types: Pn9
Transmit Power : 10 Packet type: 2-DH5
Send configuration information successfully

Serial Port COM5

Send configuration

Description:
1 \ Channel: range 0-78, corresponding frequency 2.402GHz-2.480GHZ
2 \ Transmit Power range 0-10, 0 is the minimum, maximum 10

4.4 Test Environment

Operating Environment:	
Temperature:	25 °C
Humidity:	54% RH
Atmospheric Pressure:	1009mbar
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	Supplied
/	/	/	/	CQA

4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10^{-8}
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8℃
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz

4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L5785)**

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.

4.11 Equipment List

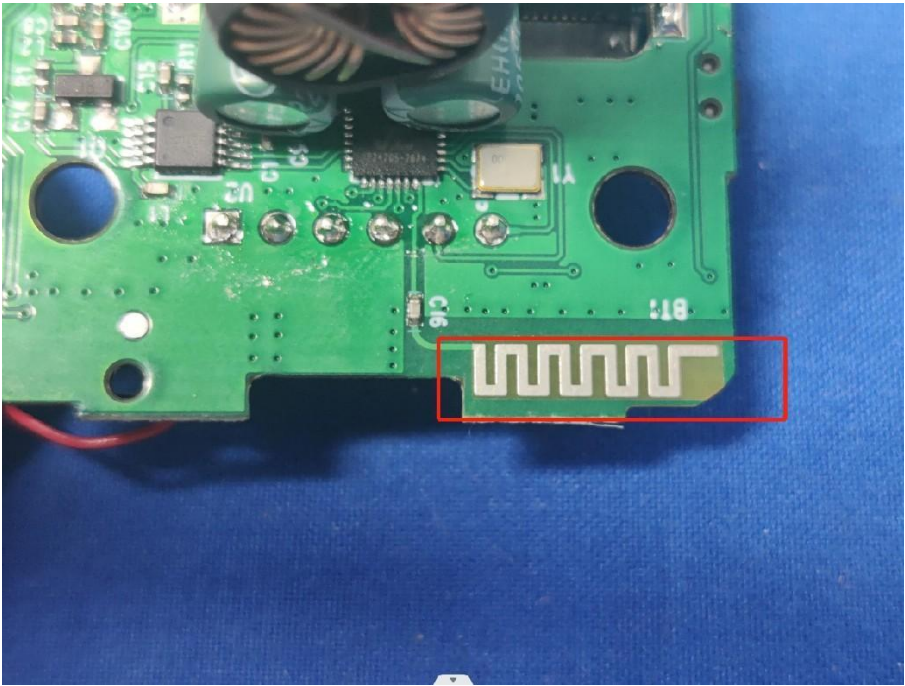
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/09/09	2023/09/08
Spectrum analyzer	R&S	FSU26	CQA-038	2022/09/09	2023/09/08
Spectrum analyzer	R&S	FSU40	CQA-075	2022/09/09	2023/09/08
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2022/09/09	2023/09/08
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2022/09/09	2023/09/08
Preamplifier	EMCI	EMC184055SE	CQA-089	2022/09/09	2023/09/08
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2022/09/09	2023/09/08
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2022/09/09	2023/09/08
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/09/09	2023/09/08
Antenna Connector	CQA	RFC-01	CQA-080	2022/09/09	2023/09/08
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2022/09/09	2023/09/08
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2022/09/09	2023/09/08
Power meter	R&S	NRVD	CQA-029	2022/09/09	2023/09/08
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/09/09	2023/09/08
EMI Test Receiver	R&S	ESR7	CQA-005	2022/09/09	2023/09/08
LISN	R&S	ENV216	CQA-003	2022/09/09	2023/09/08
Coaxial cable	CQA	N/A	CQA-C009	2022/09/09	2023/09/08
DC power	KEYSIGHT	E3631A	CQA-028	2022/09/09	2023/09/08

Note:

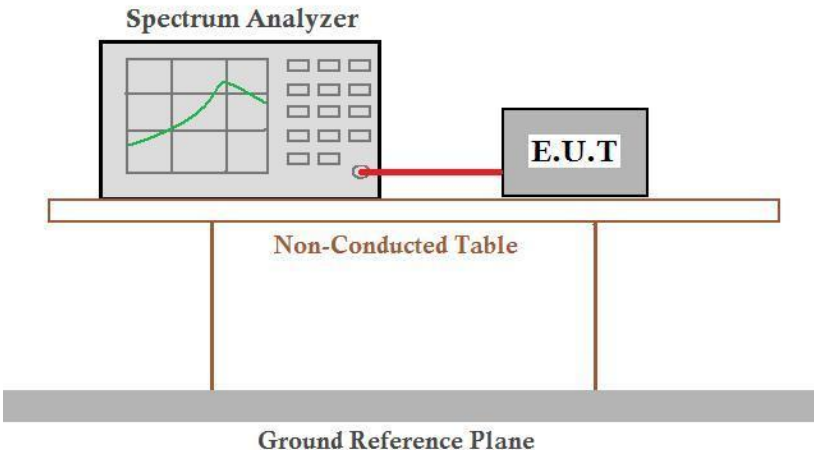
The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
	15.203 requirement: 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, 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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
EUT Antenna:	 The antenna is PCB antenna. Gain 2.12dBi

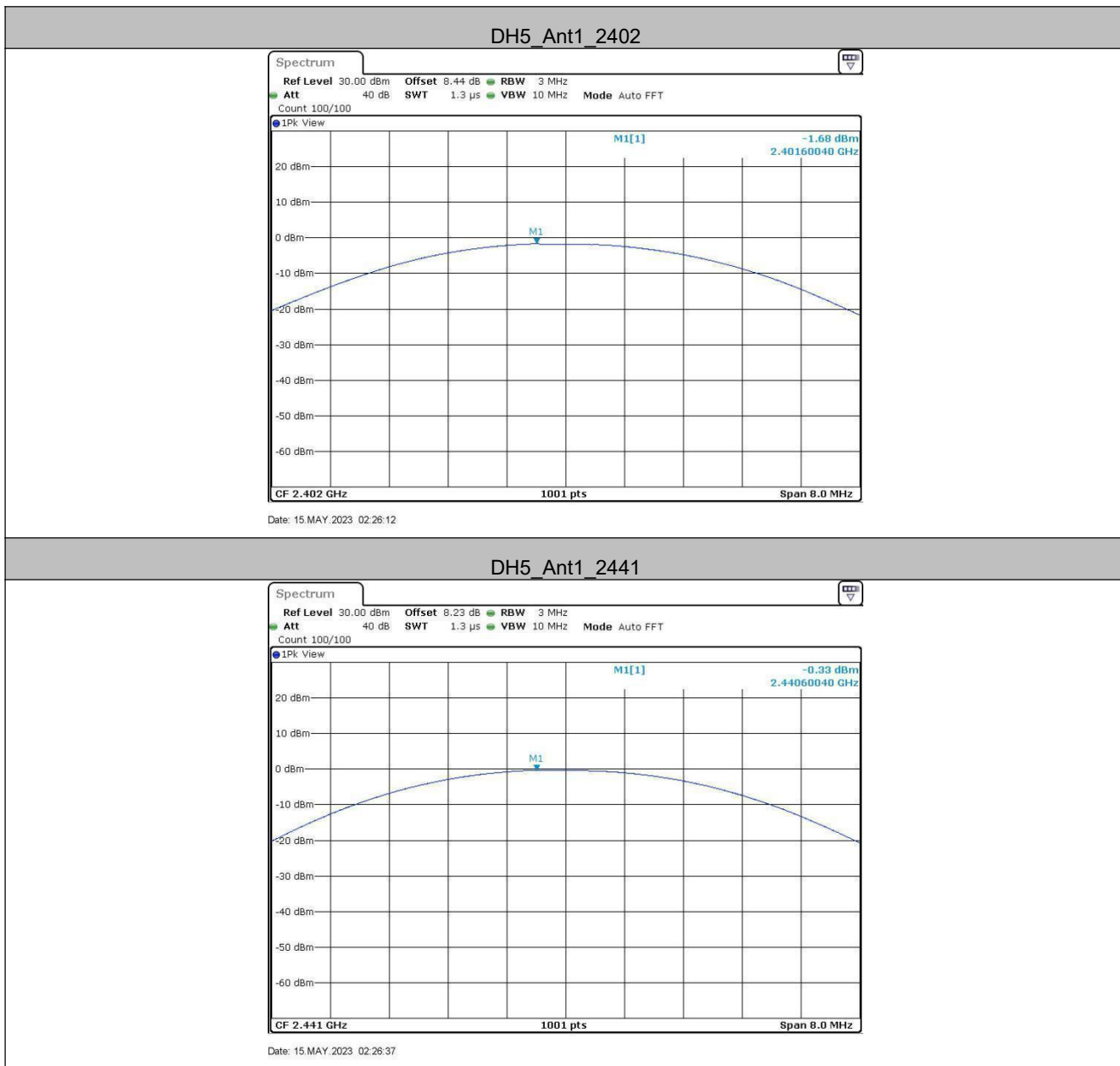
5.2 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Setup for Power meter measurement method  Setup for Spectrum analyser measurement method  <i>Remark: Offset=Cable loss+ attenuation factor.</i>
Limit:	21dBm
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

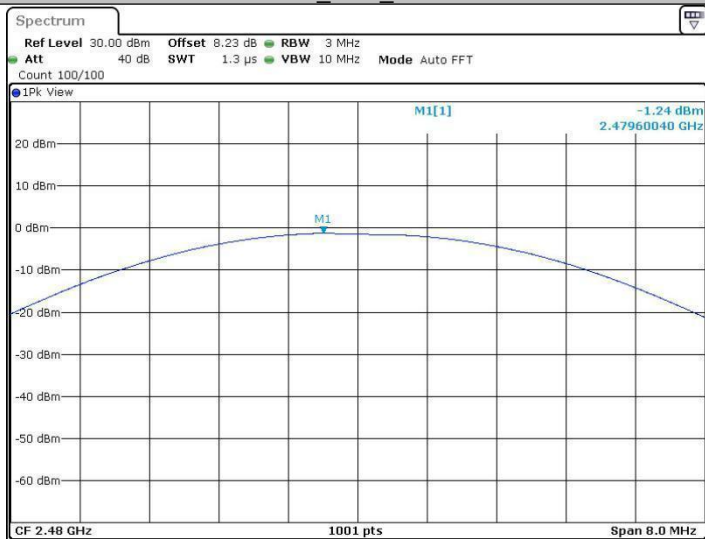
Measurement Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-1.68	21.00	Pass
Middle	-0.33	21.00	Pass
Highest	-1.24	21.00	Pass
$\pi/4$ DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-1.26	21.00	Pass
Middle	0.21	21.00	Pass
Highest	-0.91	21.00	Pass

Test plot as follows:

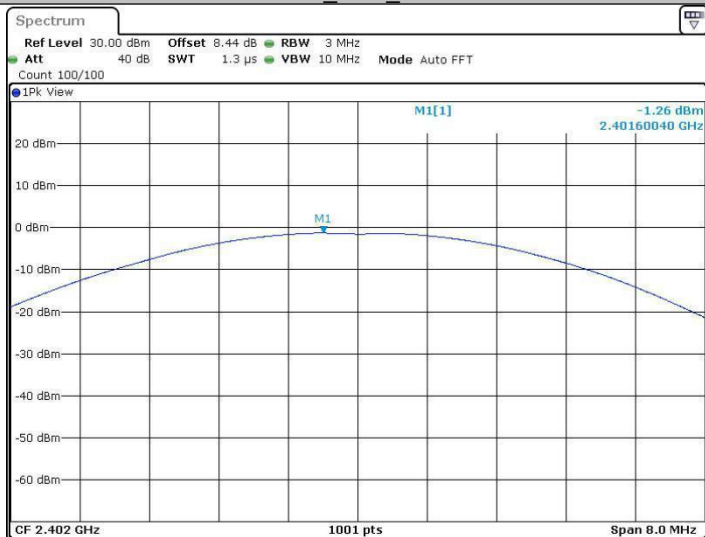


DH5_Ant1_2480



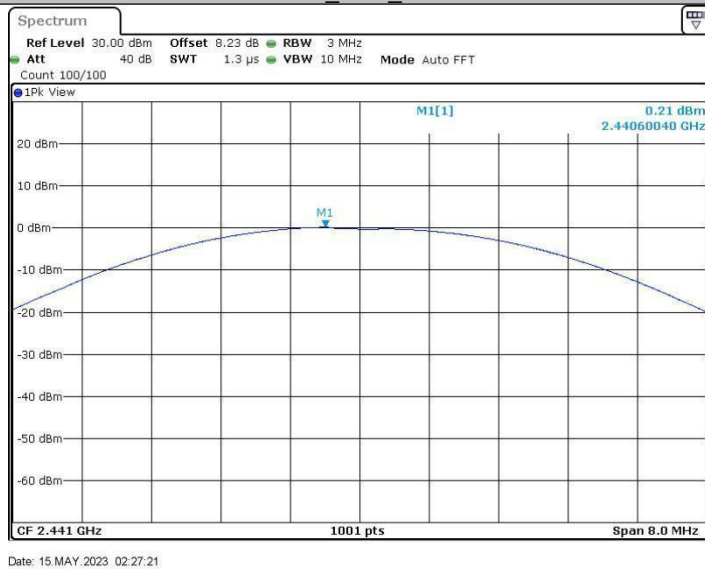
Date: 15 MAY 2023 02:26:51

2DH5_Ant1_2402

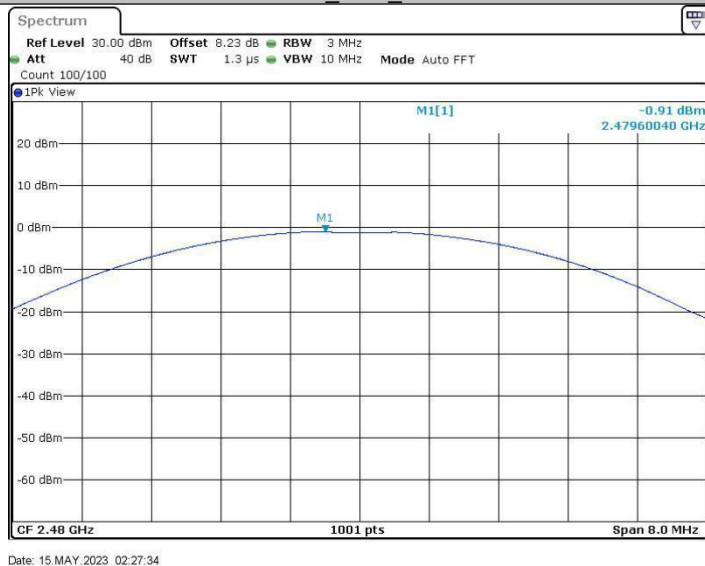


Date: 15 MAY 2023 02:27:11

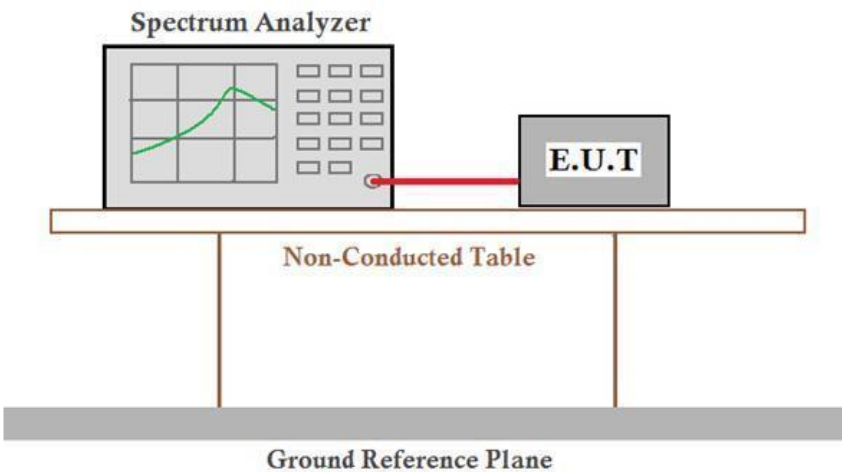
2DH5_Ant1_2441



2DH5_Ant1_2480



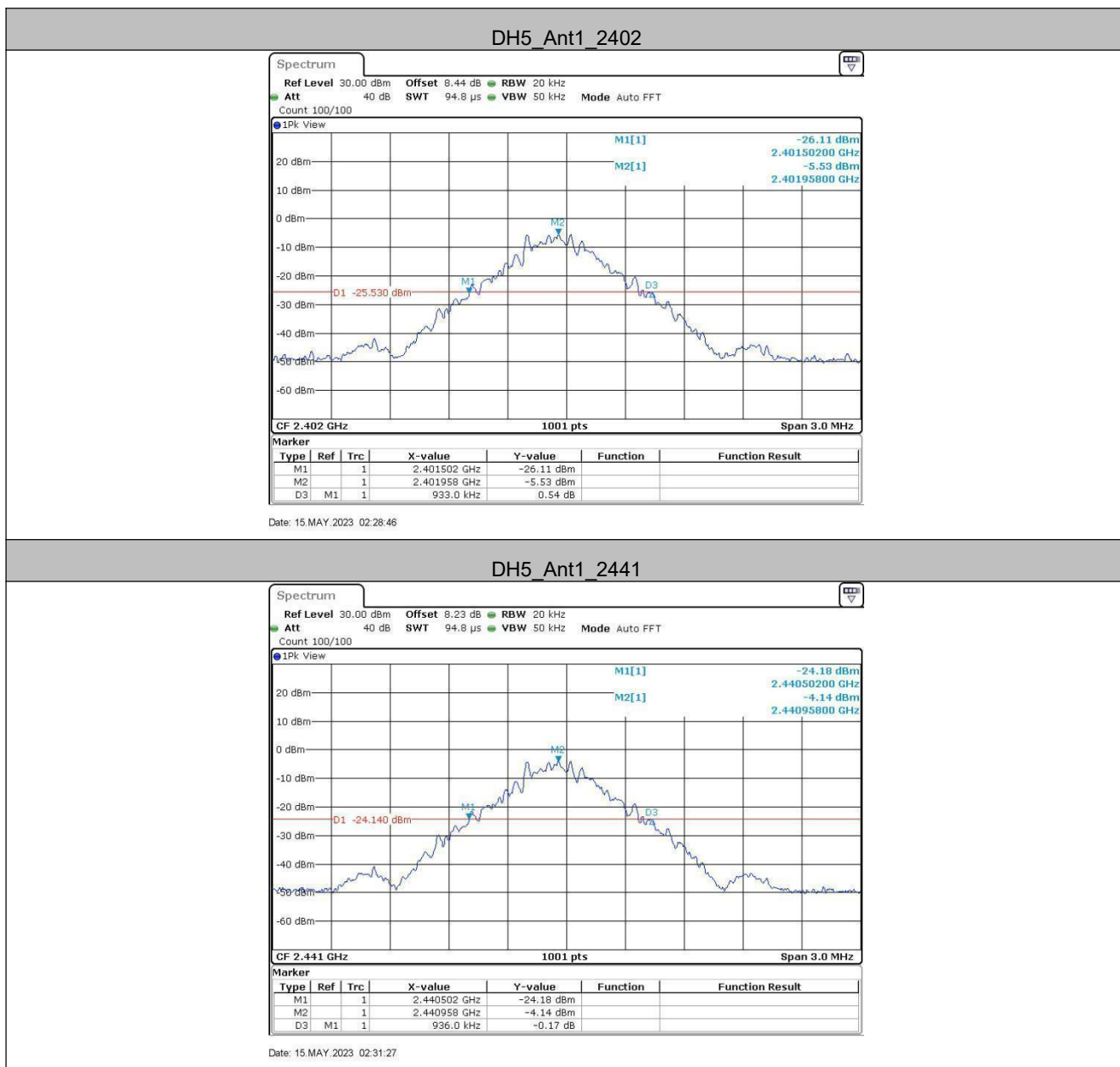
5.3 20dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Limit:	NA
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

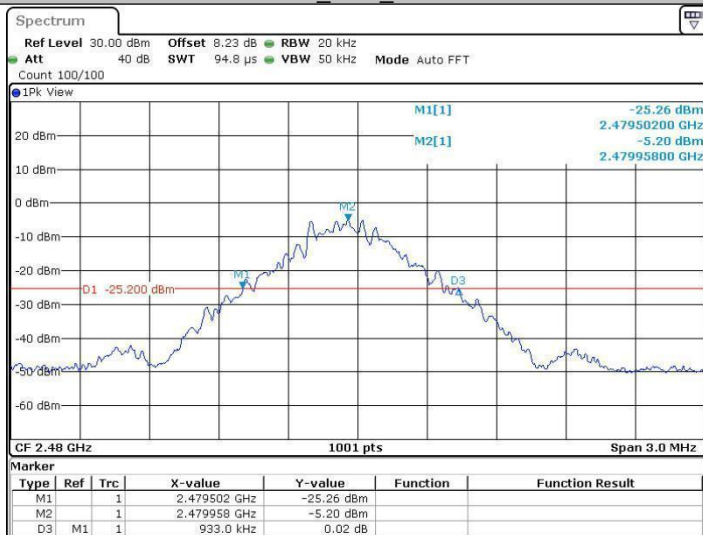
Measurement Data

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.93	2401.50	2402.44	---	---
		2441	0.94	2440.50	2441.44	---	---
		2480	0.93	2479.50	2480.44	---	---
2DH5	Ant1	2402	1.28	2401.30	2402.59	---	---
		2441	1.28	2440.30	2441.59	---	---
		2480	1.28	2479.30	2480.59	---	---

Test plot as follows:

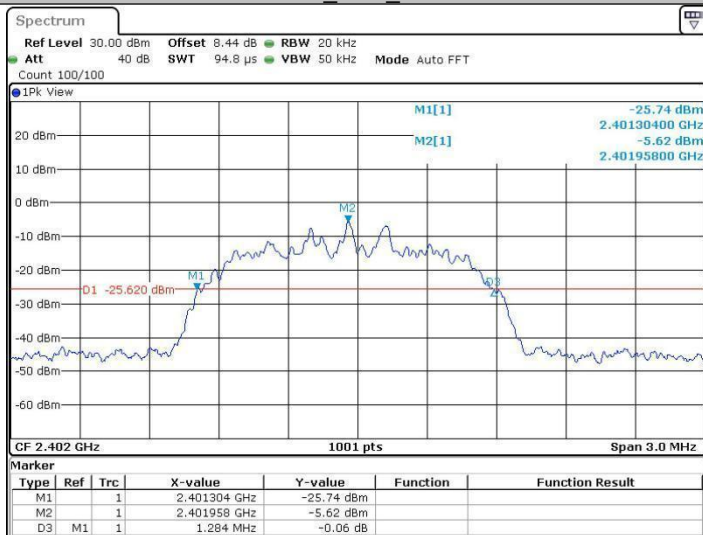


DH5_Ant1_2480



Date: 15 MAY 2023 02:32:42

2DH5_Ant1_2402



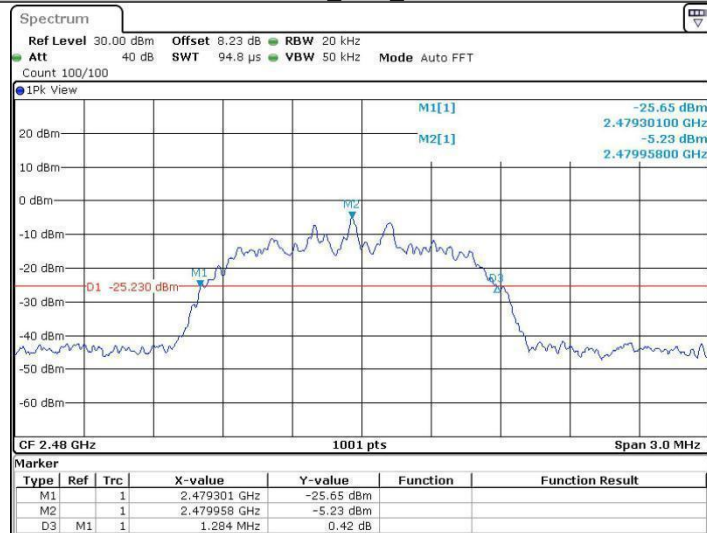
Date: 15 MAY 2023 02:35:16

2DH5_Ant1_2441



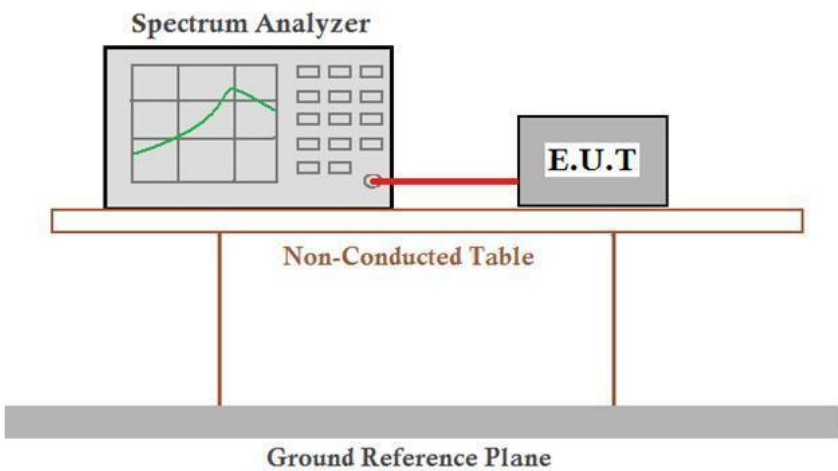
Date: 15 MAY 2023 02:37:54

2DH5_Ant1_2480



Date: 15 MAY 2023 02:39:05

5.4 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Limit:	2/3 of the 20dB bandwidth
	Remark: the transmission power is less than 0.125W.
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

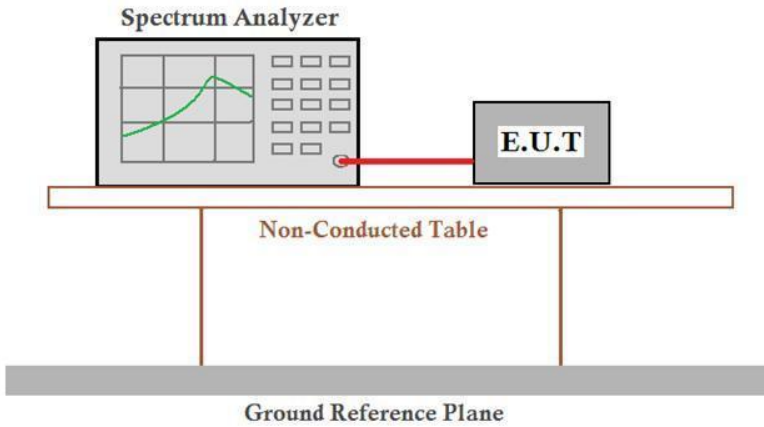
Measurement Data

TestMode	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Hop	1	≥ 0.940	PASS
2DH5	Hop	0.997	≥ 0.853	PASS

Test plot as follows:



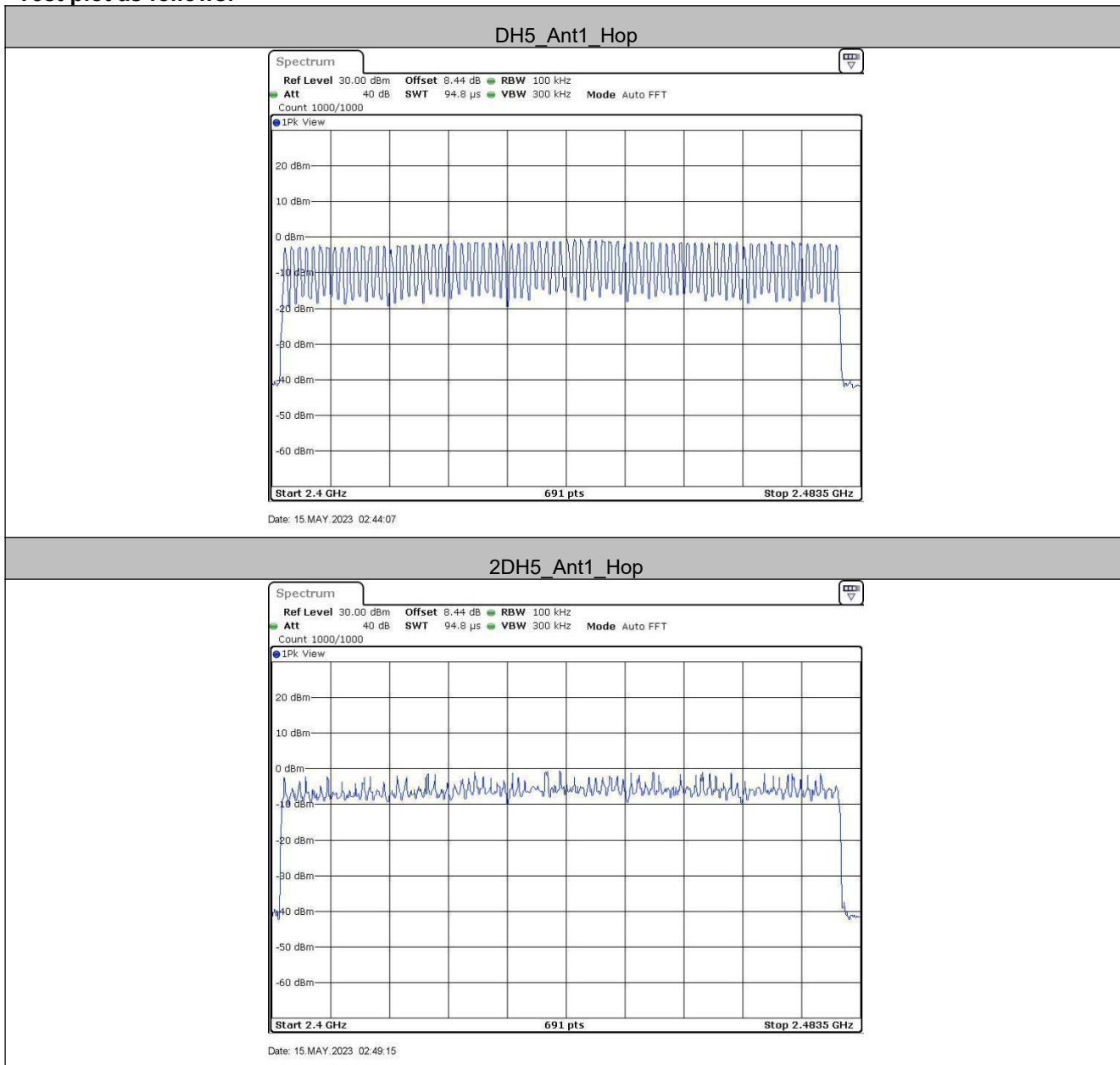
5.5 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: $Offset = \text{Cable loss} + \text{attenuation factor}$.
Limit:	At least 15 channels
Exploratory Test Mode:	hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

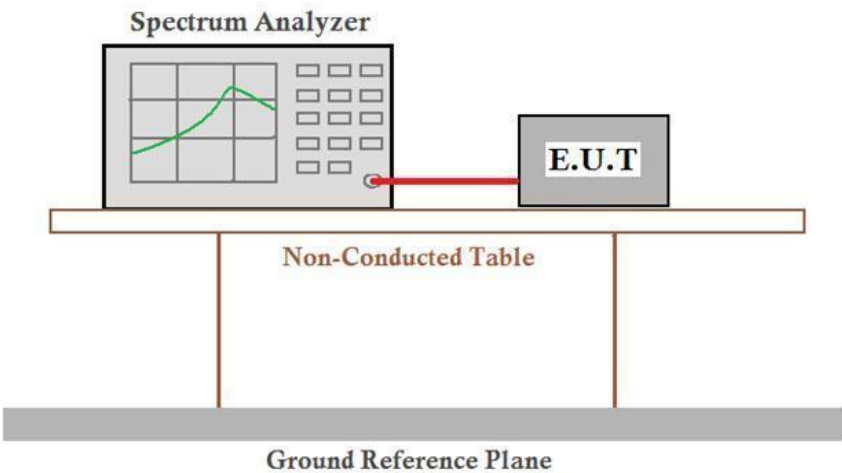
Measurement Data

TestMode	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Hop	79	≥ 15	PASS
2DH5	Hop	79	≥ 15	PASS

Test plot as follows:



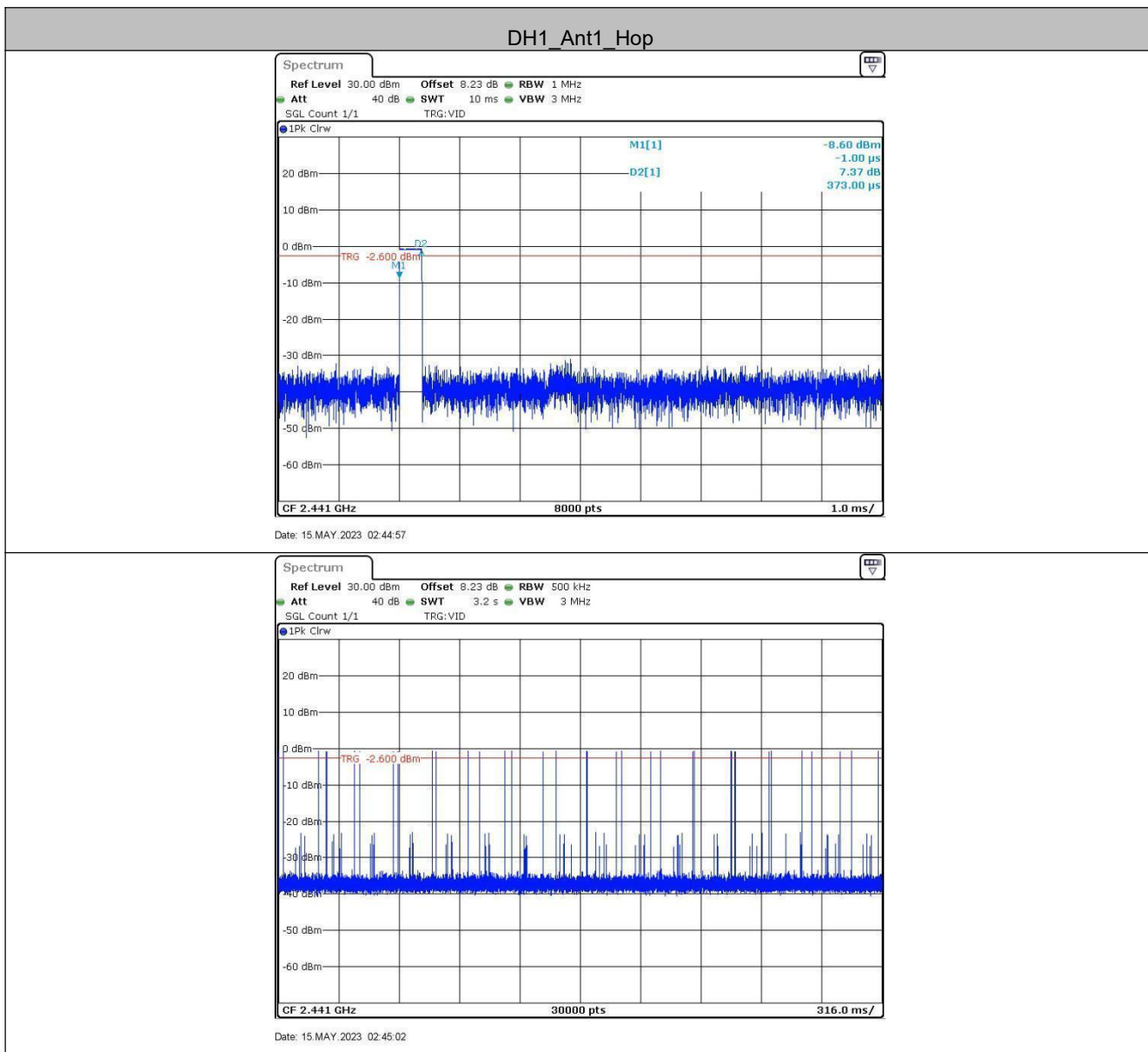
5.6 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass

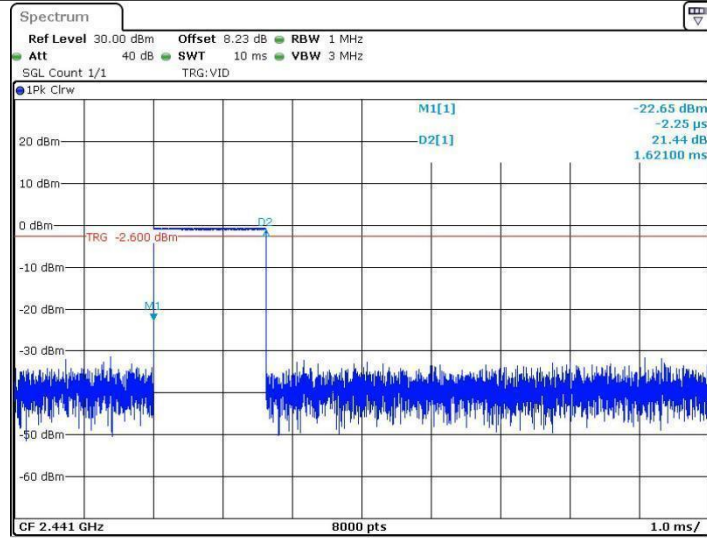
Measurement Data

TestMode	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Hop	0.373	330	0.123	≤0.4	PASS
DH3	Hop	1.621	100	0.162	≤0.4	PASS
DH5	Hop	2.862	90	0.258	≤0.4	PASS
2DH1	Hop	0.383	320	0.123	≤0.4	PASS
2DH3	Hop	1.626	120	0.195	≤0.4	PASS
2DH5	Hop	2.867	60	0.172	≤0.4	PASS

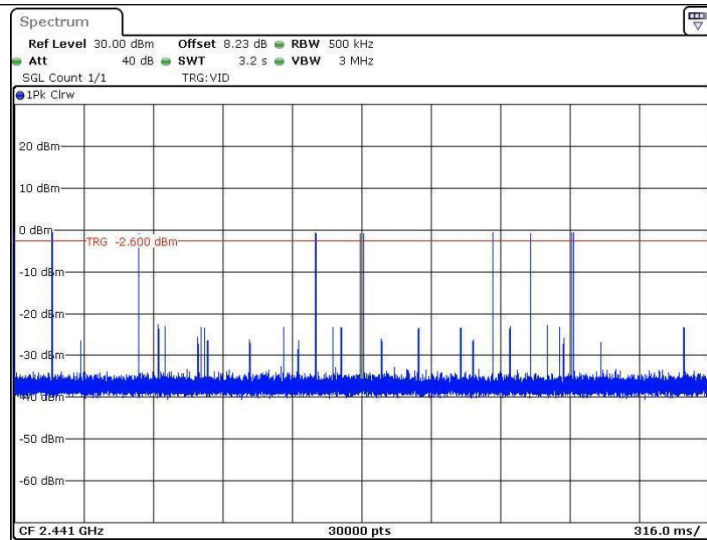
Test plot as follows:



DH3_Ant1_Hop

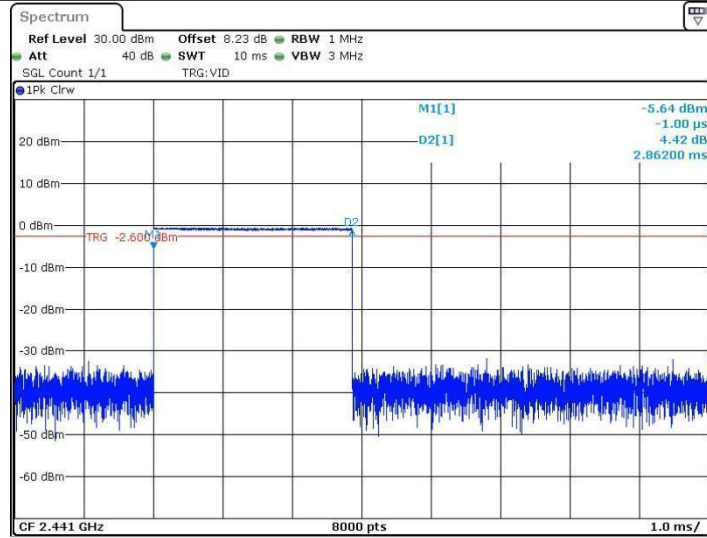


Date: 15 MAY 2023 02:45:25

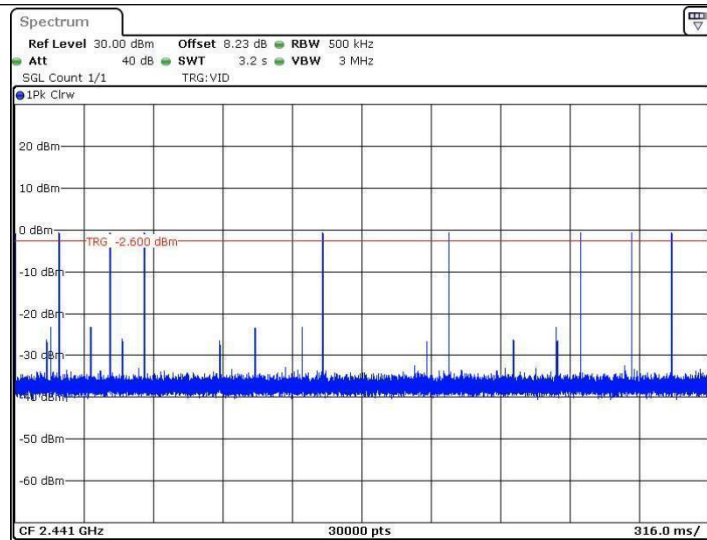


Date: 15 MAY 2023 02:45:31

DH5_Ant1_Hop

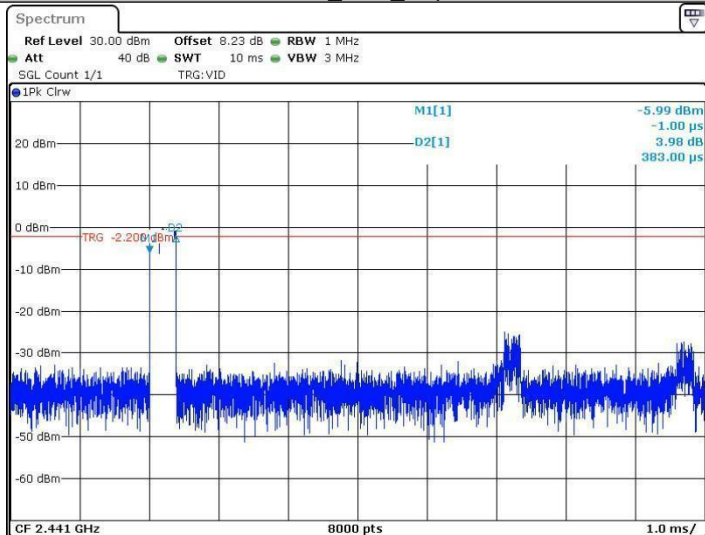


Date: 15 MAY 2023 02:44:22

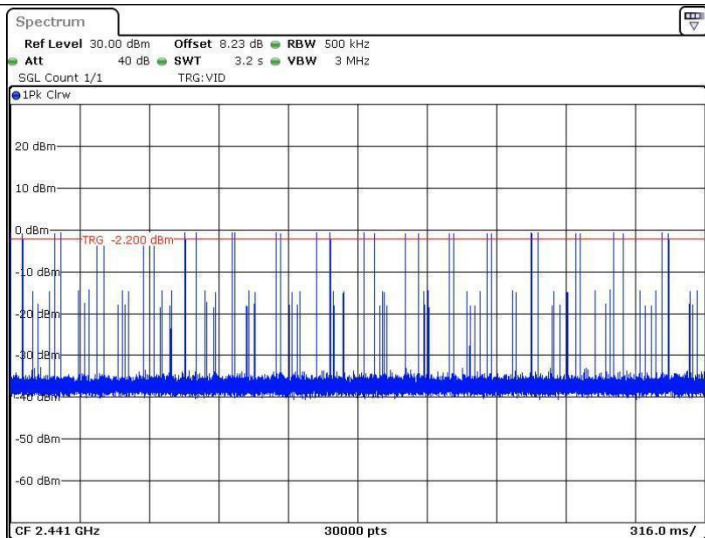


Date: 15 MAY 2023 02:44:29

2DH1_Ant1_Hop

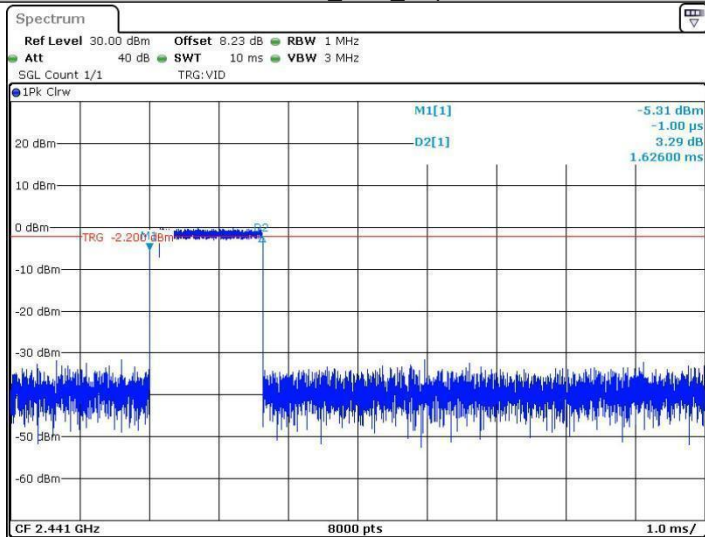


Date: 15 MAY 2023 02:50:03

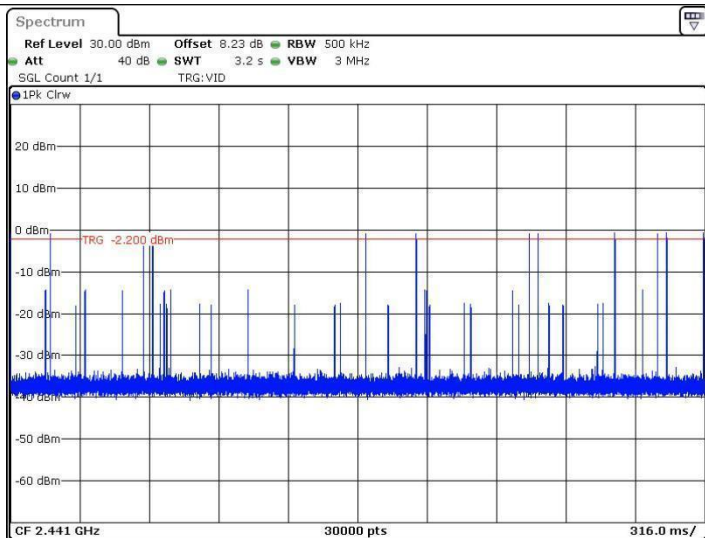


Date: 15 MAY 2023 02:50:08

2DH3_Ant1_Hop

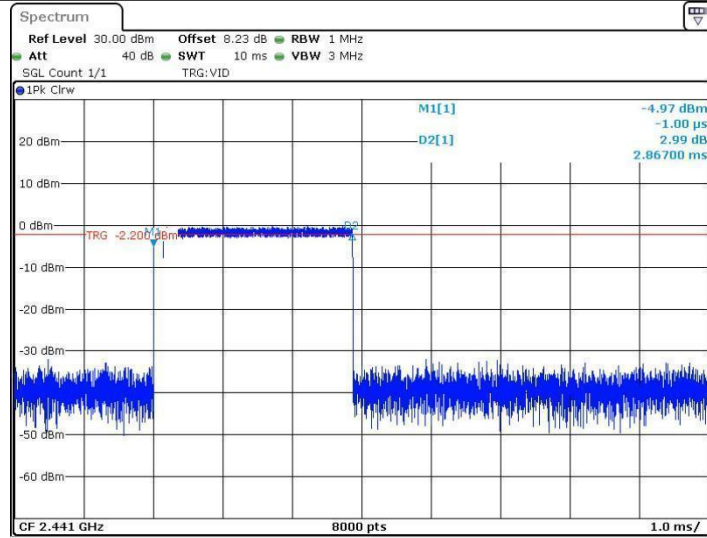


Date: 15 MAY 2023 02:50:37

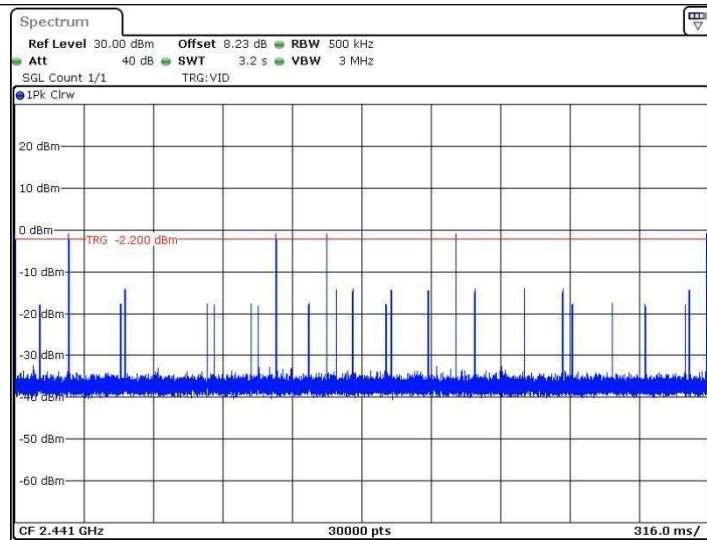


Date: 15 MAY 2023 02:50:42

2DH5_Ant1_Hop

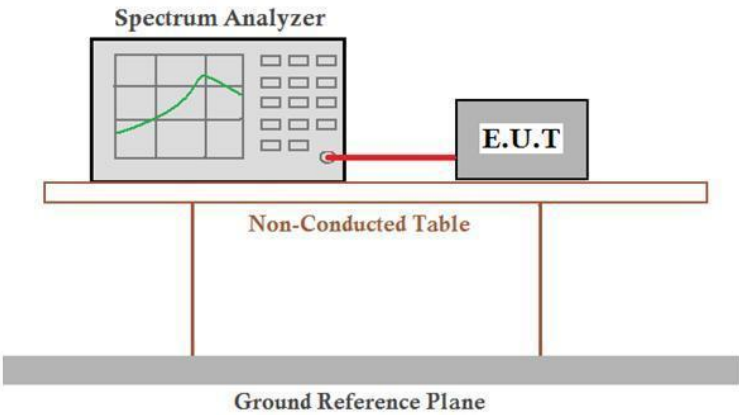


Date: 15 MAY 2023 02:49:31



Date: 15 MAY 2023 02:49:37

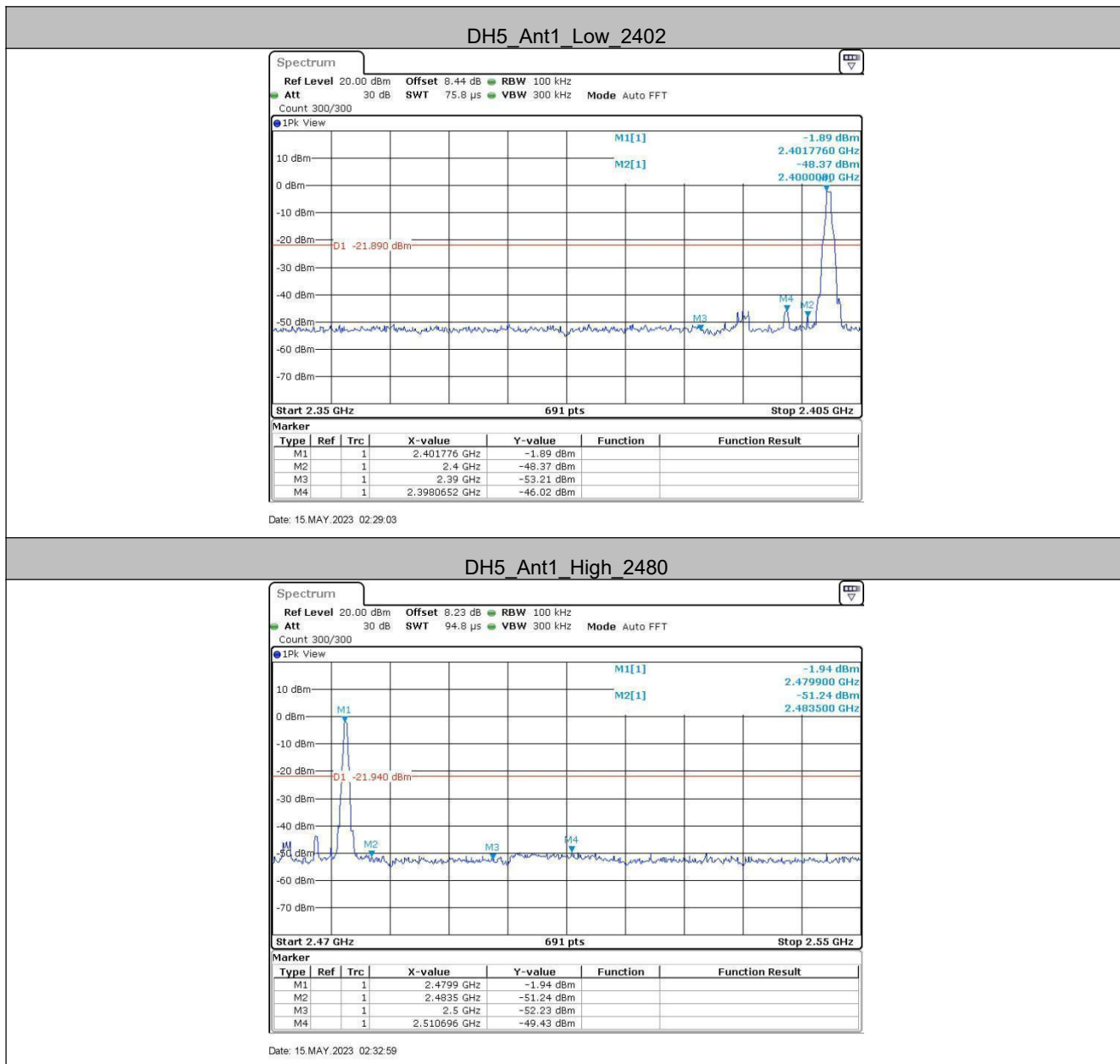
5.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	 <i>Remark: Offset=cable loss+ attenuation factor.</i>
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

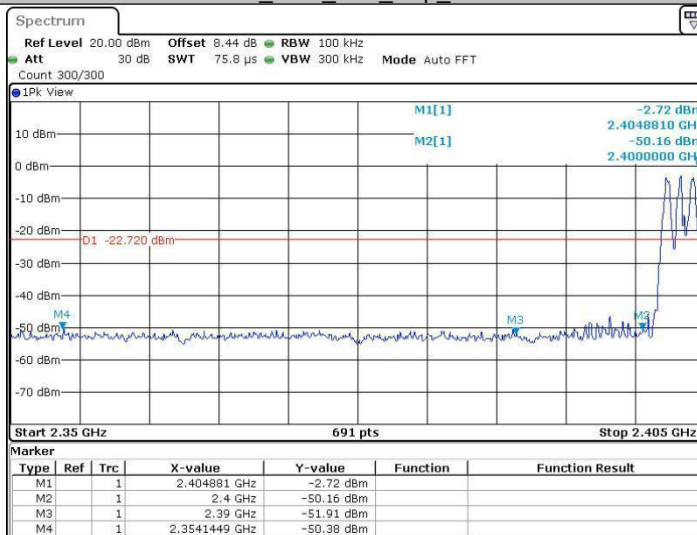
Measurement Data

TestMode	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Low	2402	-1.89	-46.02	≤ -21.89	PASS
	High	2480	-1.94	-49.43	≤ -21.94	PASS
	Low	Hop_2402	-2.72	-50.38	≤ -22.72	PASS
	High	Hop_2480	-2.23	-49	≤ -22.23	PASS
2DH5	Low	2402	-2.09	-46.79	≤ -22.09	PASS
	High	2480	-1.89	-48.63	≤ -21.89	PASS
	Low	Hop_2402	-5.09	-49.79	≤ -25.09	PASS
	High	Hop_2480	-2.07	-48.57	≤ -22.07	PASS

Test plot as follows:

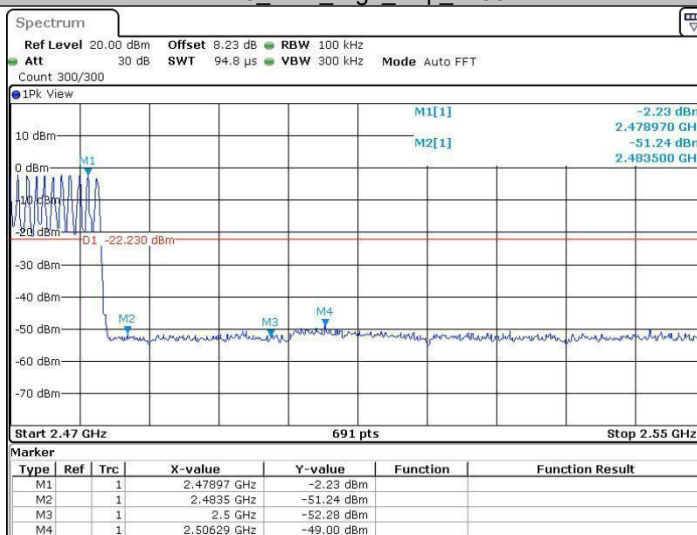


DH5_Ant1_Low_Hop_2402



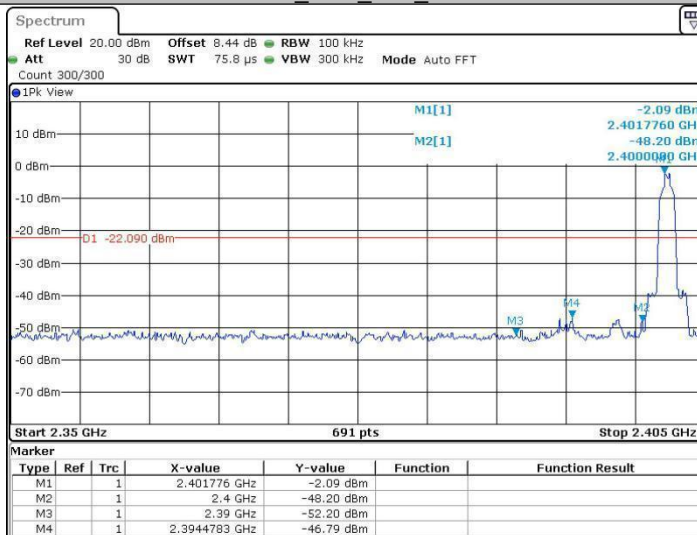
Date: 15 MAY 2023 02:41:15

DH5_Ant1_High_Hop_2480



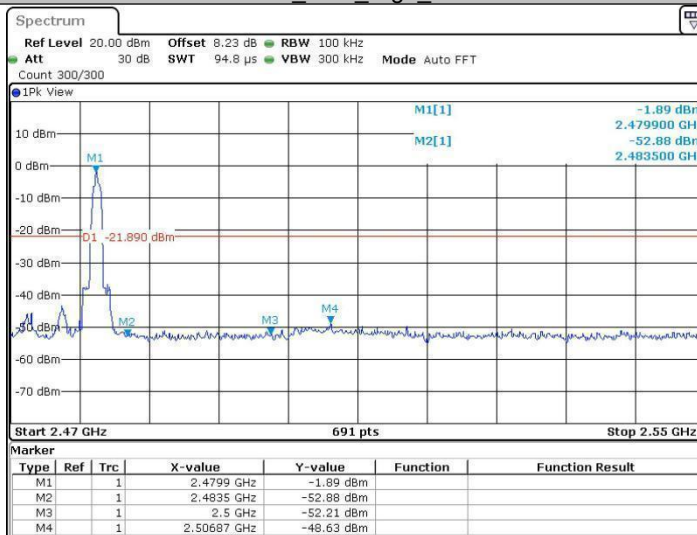
Date: 15 MAY 2023 02:45:56

2DH5_Ant1_Low_2402



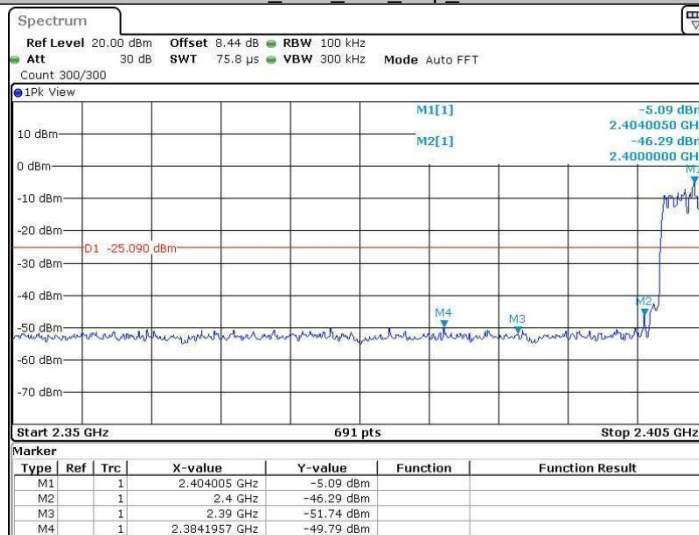
Date: 15 MAY 2023 02:35:33

2DH5_Ant1_High_2480



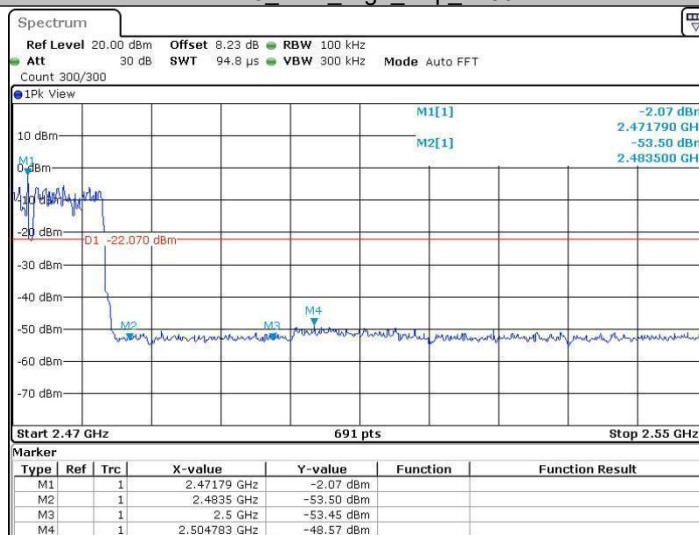
Date: 15 MAY 2023 02:39:22

2DH5_Ant1_Low_Hop_2402



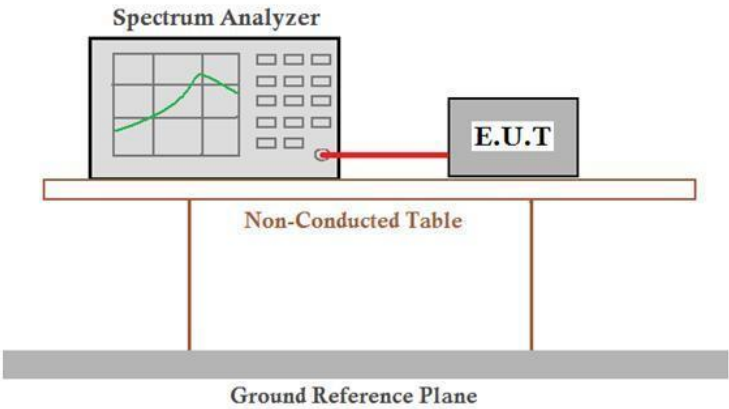
Date: 15 MAY 2023 02:46:41

2DH5_Ant1_High_Hop_2480



Date: 15 MAY 2023 02:51:14

5.8 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	 <i>Remark: Offset=cable loss+ attenuation factor.</i>
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Pass

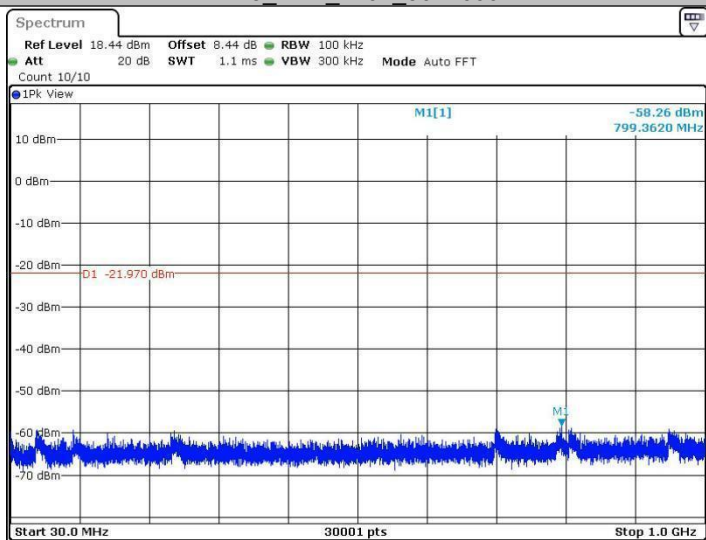
TestMode	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	2402	Reference	-1.97	-1.97	---	PASS
		30~1000	-1.97	-58.26	≤ -21.97	PASS
		1000~26500	-1.97	-47.79	≤ -21.97	PASS
	2441	Reference	-0.52	-0.52	---	PASS
		30~1000	-0.52	-58.66	≤ -20.52	PASS
		1000~26500	-0.52	-49.72	≤ -20.52	PASS
	2480	Reference	-1.63	-1.63	---	PASS
		30~1000	-1.63	-59.13	≤ -21.63	PASS
		1000~26500	-1.63	-51.79	≤ -21.63	PASS
2DH5	2402	Reference	-2.16	-2.16	---	PASS
		30~1000	-2.16	-57.56	≤ -22.16	PASS
		1000~26500	-2.16	-51.57	≤ -22.16	PASS
	2441	Reference	-0.65	-0.65	---	PASS
		30~1000	-0.65	-58.06	≤ -20.65	PASS
		1000~26500	-0.65	-48.52	≤ -20.65	PASS
	2480	Reference	-1.78	-1.78	---	PASS
		30~1000	-1.78	-58.6	≤ -21.78	PASS
		1000~26500	-1.78	-54.12	≤ -21.78	PASS

DH5_Ant1_2402_0~Reference



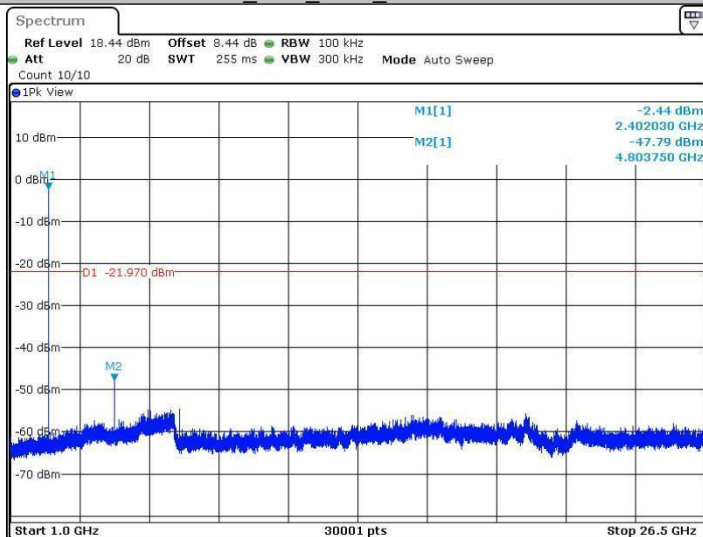
Date: 15 MAY 2023 02:30:10

DH5_Ant1_2402_30~1000



Date: 15 MAY 2023 02:30:17

DH5_Ant1_2402_1000~26500



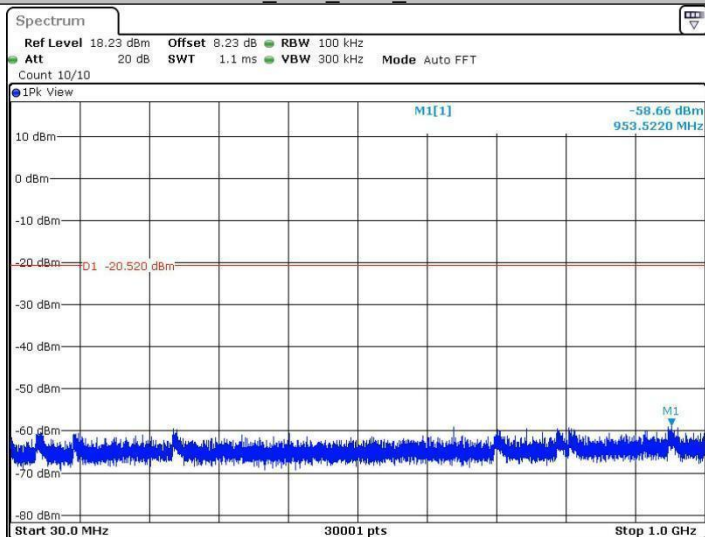
Date: 15 MAY 2023 02:30:39

DH5_Ant1_2441_0~Reference



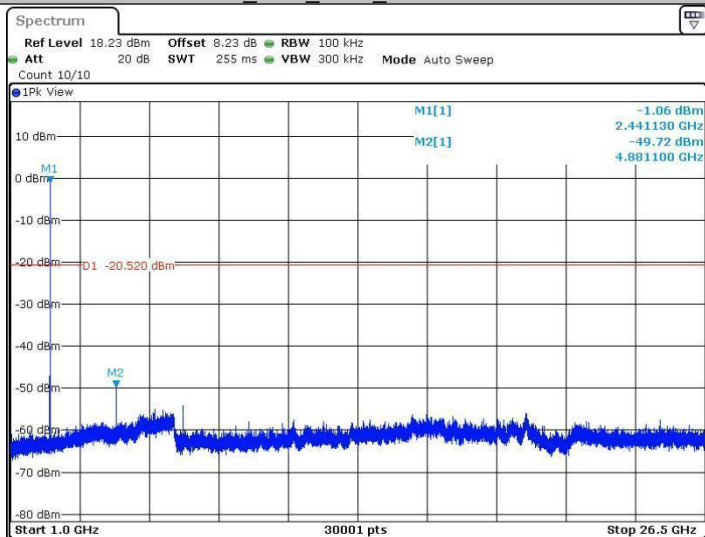
Date: 15 MAY 2023 02:31:42

DH5_Ant1_2441_30~1000



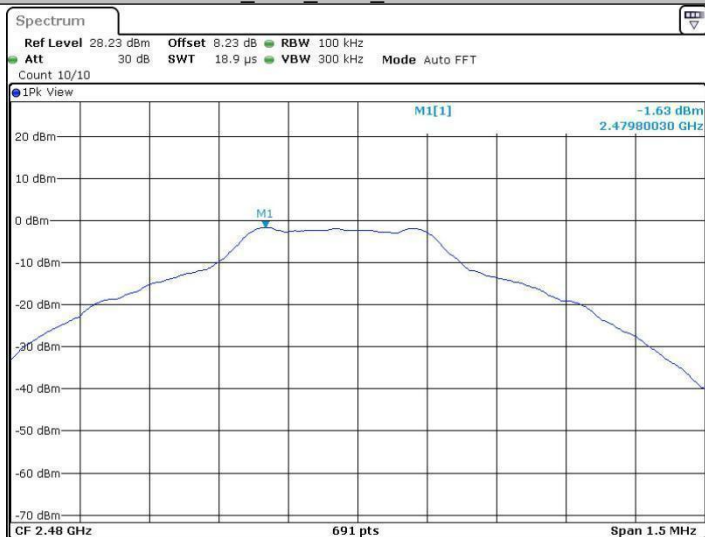
Date: 15 MAY 2023 02:31:50

DH5_Ant1_2441_1000~26500



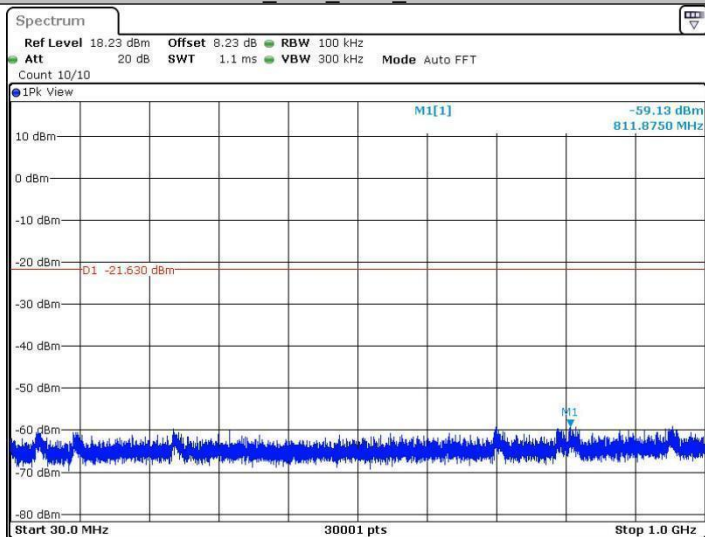
Date: 15 MAY 2023 02:32:12

DH5_Ant1_2480_0~Reference



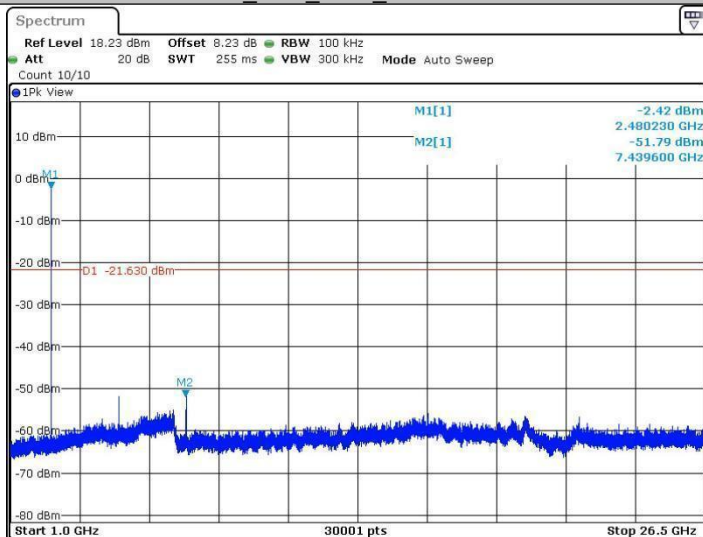
Date: 15 MAY 2023 02:34:03

DH5_Ant1_2480_30~1000



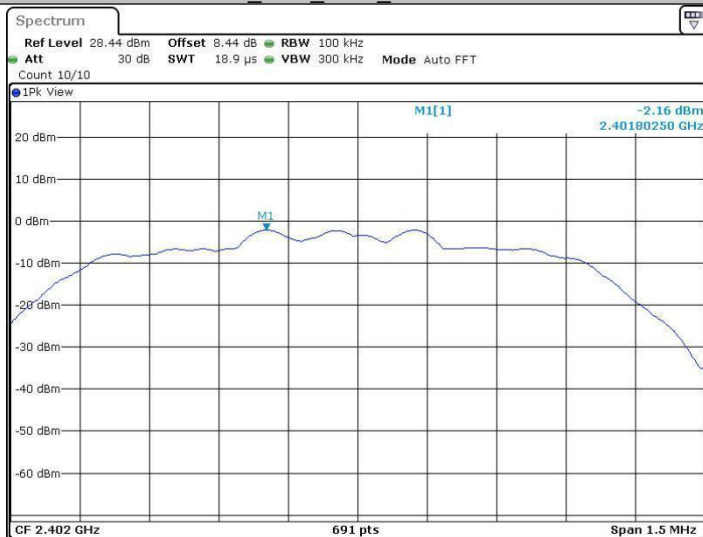
Date: 15 MAY 2023 02:34:10

DH5_Ant1_2480_1000~26500



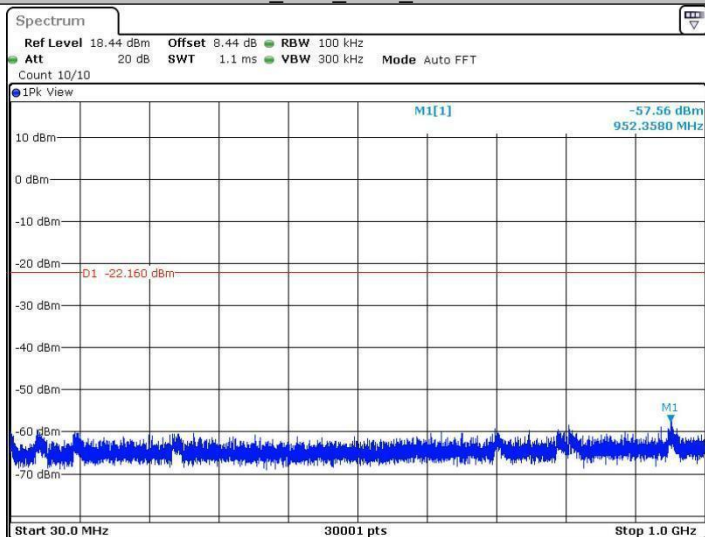
Date: 15 MAY 2023 02:34:32

2DH5_Ant1_2402_0~Reference



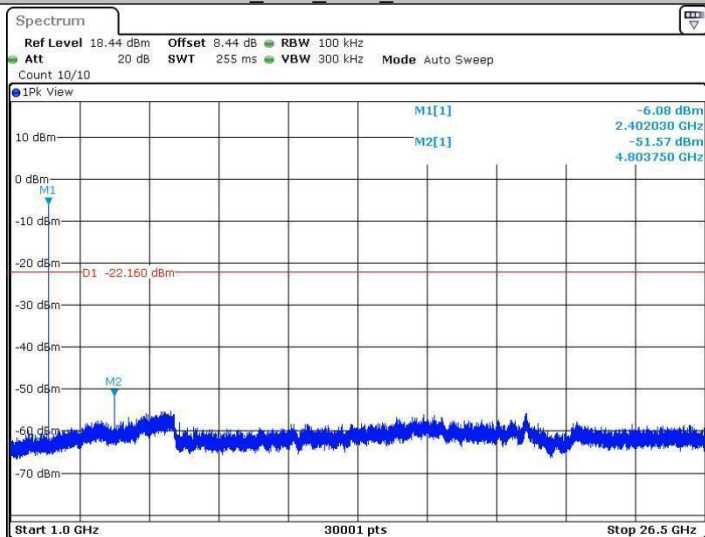
Date: 15 MAY 2023 02:36:38

2DH5_Ant1_2402_30~1000



Date: 15 MAY 2023 02:36:44

2DH5_Ant1_2402_1000~26500



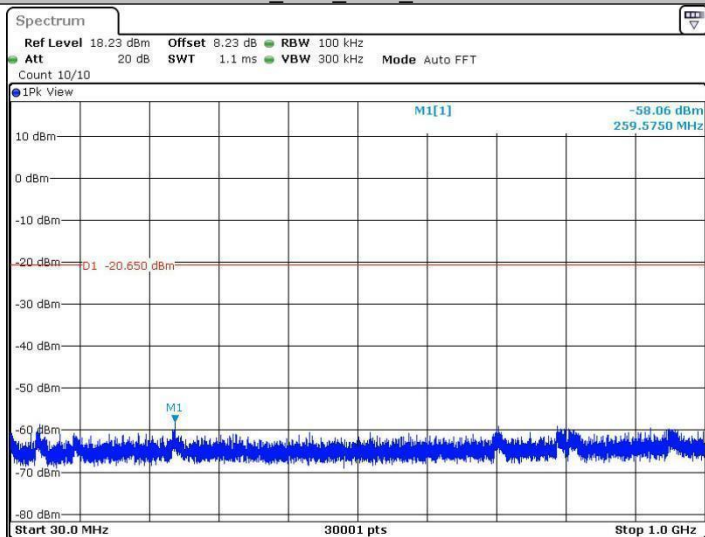
Date: 15 MAY 2023 02:37:06

2DH5_Ant1_2441_0~Reference



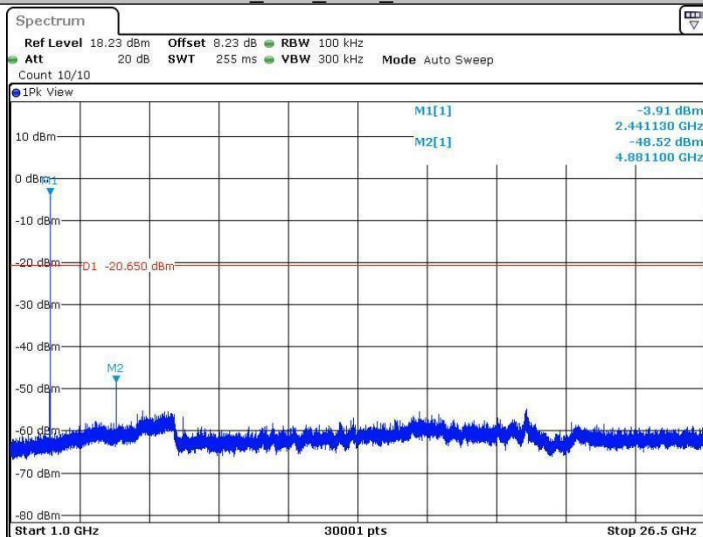
Date: 15 MAY 2023 02:38:09

2DH5_Ant1_2441_30~1000



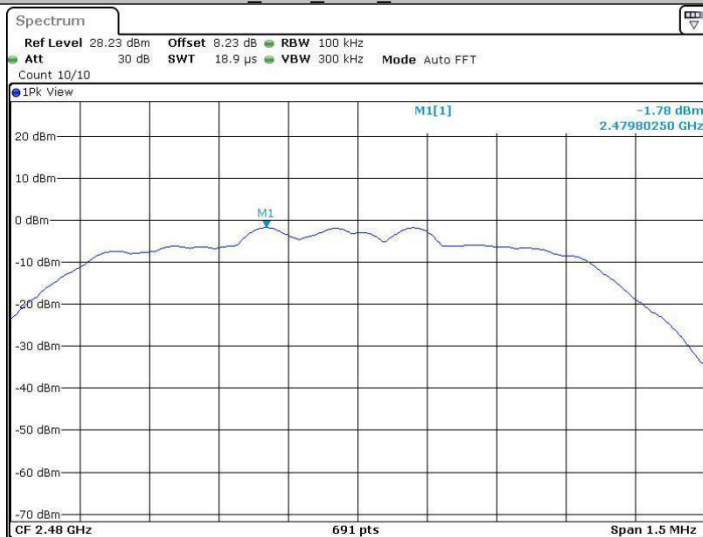
Date: 15 MAY 2023 02:38:16

2DH5_Ant1_2441_1000~26500



Date: 15 MAY 2023 02:38:38

2DH5_Ant1_2480_0~Reference



Date: 15 MAY 2023 02:40:27