



FCC TEST REPORT

FCC ID: 2AX9T-CD100

On Behalf of

Velocity Commerce

PORTABLE CD PLAYER

**Model No.: CD100, PCD-101, PCD-102, PCD-103, PCD-104,
PCD-105, PCD-106, PCD-107, PCD-108, ZL1908, MD-102,
CD-5280, CD-5281**

Prepared for : Velocity Commerce
Address : 49 Viking Way, Bar Hill, Cambridge, CB23 8EL

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

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TEST REPORT DECLARATION

Applicant : Velocity Commerce
Address : 49 Viking Way, Bar Hill, Cambridge, CB23 8EL
Manufacturer : Shenzhen Canjing Electronics co.,Ltd
Address : Block 2, Zhipeng Ind Park, Heping Village, Fuyong Town, Baoan District,
ShenZhen 518103 China.
EUT Description : PORTABLE CD PLAYER
(A) Model No. : CD100, PCD-101, PCD-102, PCD-103, PCD-104,
PCD-105, PCD-106, PCD-107, PCD-108, ZL1908,
MD-102, CD-5280, CD-5281
(B) Trademark :  **OAKCASTLE**
OAKCASTLE

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10:2013

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Lucas Pang
Project Engineer



Approved by (name + signature).....: Simple Guan
Project Manager



Date of issue.....: November 27, 2020

Revision History

Revision	Issue Date	Revisions	Revised By
V0	November 27, 2020	Initial released Issue	Lucas Pang

1. Summary of Standards And Results

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.10 :2013	P
Bandwidth	FCC Part 15: 15.215 ANSI C63.10 :2013	P
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2013	P
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2013	P
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2013	P
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2013	P
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.10 :2013	P
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10 :2013	P
Antenna requirement	FCC Part 15: 15.203	P
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.		

2. General Information

2.1. Description of Device (EUT)

Description	: PORTABLE CD PLAYER
Trademark	:  OAKCASTLE OAKCASTLE
Model Number	: CD100, PCD-101, PCD-102, PCD-103, PCD-104, PCD-105, PCD-106, PCD-107, PCD-108, ZL1908, MD-102, CD-5280, CD-5281
DIFF.	: There is no difference except the name of the model. All tests are made with the CD100 model
Test Voltage	: DC 5V by adapter or DC 3.7V by battery
Radio Technology	: Bluetooth (EDR)
Operation frequency	: 2402-2480MHz
Channel No.	: 79 Channels
Modulation type	: GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	: Internal antenna, Maximum Gain is 1dBi(This value is supplied by applicant).
Software version	: V2.1
Hardware version	: V3.0
Connector cable loss	: 0.5dB (This value is supplied by applicant).

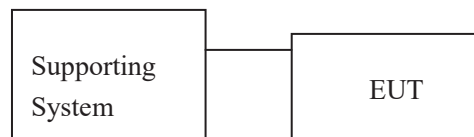
2.2. Accessories of Device (EUT)

Accessories1 : /
 Manufacturer : /
 Model : /
 Ratings : /

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1.	Notebook	N/A	N/A	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480
$\pi/4$ DQPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480
8- DPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

July 15, 2019 Certificated by IC

Registration Number: CN0085

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.13dB(Polarize: H)
	4.16dB(Polarize: V)
Uncertainty for radio frequency	5.4×10^{-8}
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9. Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2020.09.02	1Year
Spectrum analyzer	ROHDE&SCHWARZ	FSU	1166.1660.26	2020.09.02	1Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2020.09.02	1Year
Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-102082-Wa	2020.09.02	1Year
Receiver	R&S	ESCI	101165	2020.09.02	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2019.09.07	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2020.04.12	2Year
Loop Antenna	SCHWARZBECK	FMZB 1519B	00059	2019.09.07	2Year
Cable	Resenberger	N/A	No.1	2020.09.02	1Year
Cable	SCHWARZBECK	N/A	No.2	2020.09.02	1Year
Cable	SCHWARZBECK	N/A	No.3	2020.09.02	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2020.09.02	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2020.09.02	1Year
Temperature controller	Terchy	MHQ	120	2020.09.02	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126-466	2020.09.02	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2020.09.02	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2020.09.02	1 Year

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	EZ	Alpha-3A1
CE	EZ-EMC	EZ	Alpha-3A1
RF-CE	MTS 8310	MW	V2.0.0.0

3. Maximum Peak Output Power

3.1.Limit

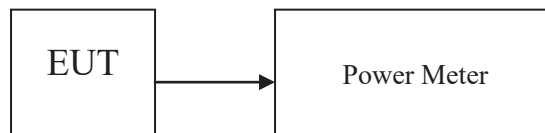
Please refer section15.247.

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. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

3.2.Test Procedure

The transmitter output is connected to the RF Power Meter. Measure out each mode and each bands peak output power of EUT.

3.3.Test Setup



3.4.Test Result

Mode	Freq (MHz)	Average Output Power (dBm)	Limit (dBm)	Result
GFSK	2402	0.389	21	Pass
	2441	1.344	21	Pass
	2480	0.498	21	Pass
$\pi/4$ DQPSK	2402	1.451	21	Pass
	2441	2.873	21	Pass
	2480	1.822	21	Pass
8DPSK	2402	1.721	21	Pass
	2441	2.612	21	Pass
	2480	2.552	21	Pass

Conclusion: PASS

4. Bandwidth

4.1.Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

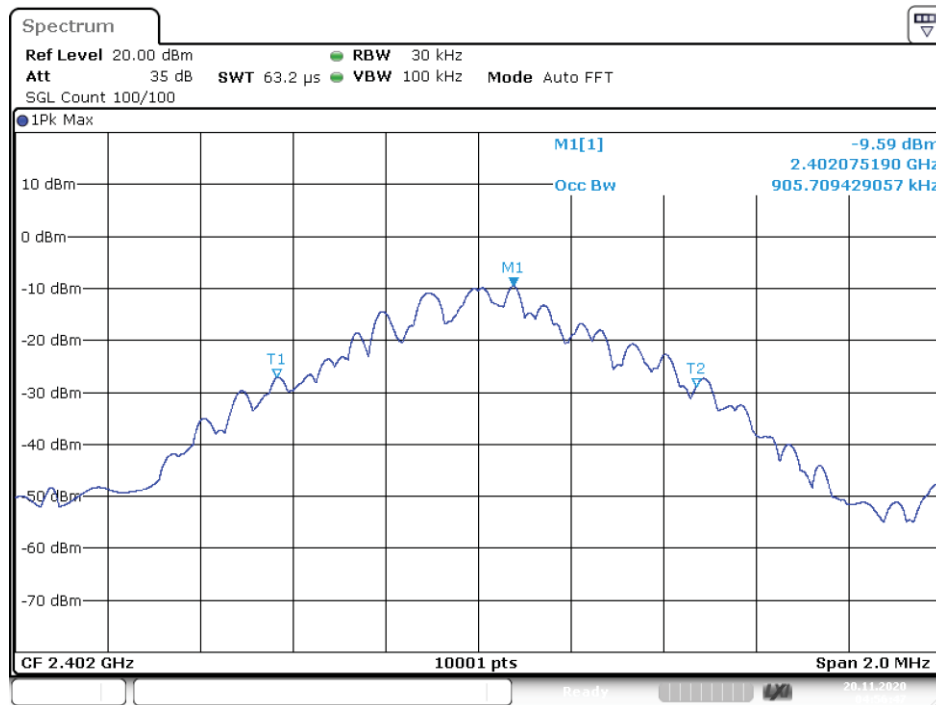
4.2.Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3.Test Result

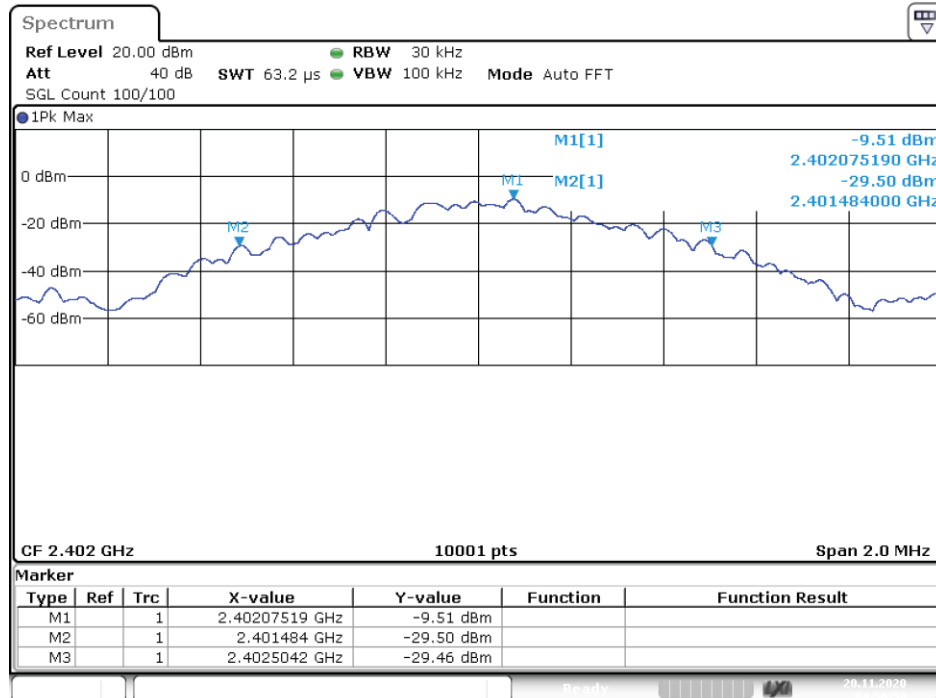
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant 1	0.9057	1.0202	-	Pass
NVNT	1-DH1	2441	Ant 1	0.9131	0.9586	-	Pass
NVNT	1-DH1	2480	Ant 1	0.8929	0.965	-	Pass
NVNT	2-DH1	2402	Ant 1	1.2053	1.3658	-	Pass
NVNT	2-DH1	2441	Ant 1	1.2181	1.3566	-	Pass
NVNT	2-DH1	2480	Ant 1	1.1935	1.3532	-	Pass
NVNT	3-DH1	2402	Ant 1	1.2007	1.3516	-	Pass
NVNT	3-DH1	2441	Ant 1	1.1877	1.3432	-	Pass
NVNT	3-DH1	2480	Ant 1	1.1909	1.3178	-	Pass

OBW NVNT 1-DH1 2402MHz Ant1



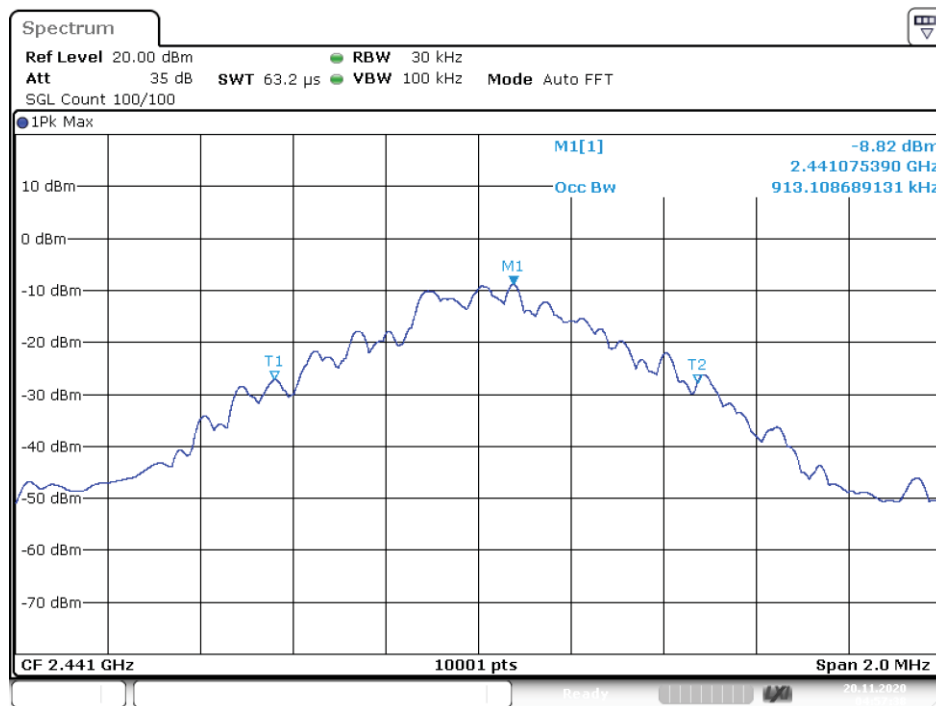
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-20 dB BW NVNT 1-DH1 2402MHz Ant1



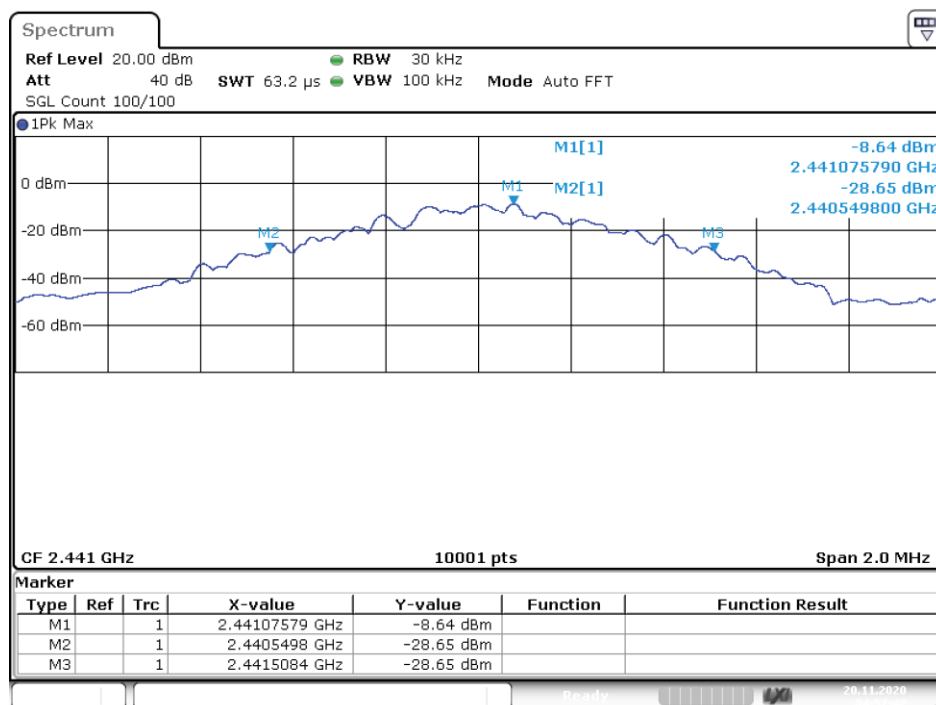
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OBW NVNT 1-DH1 2441MHz Ant1



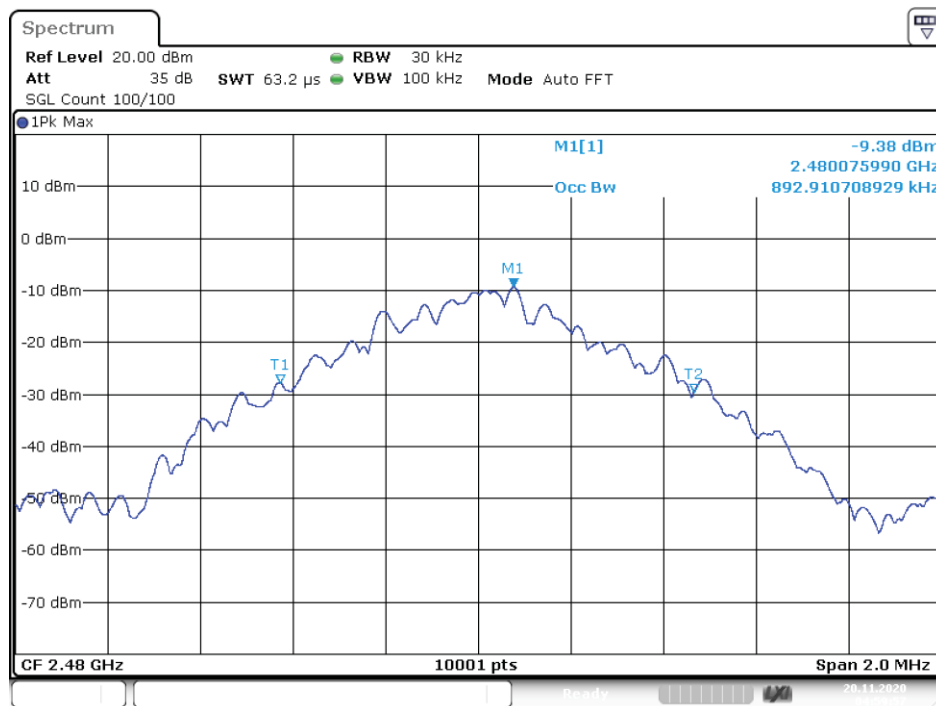
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-20 dB BW NVNT 1-DH1 2441MHz Ant1



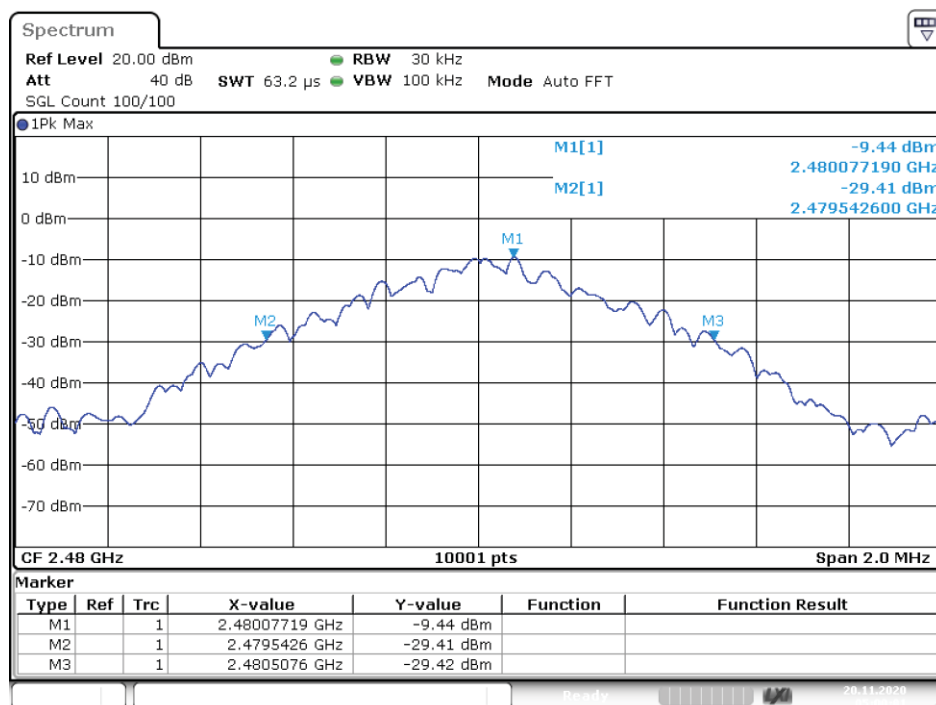
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OBW NVNT 1-DH1 2480MHz Ant1



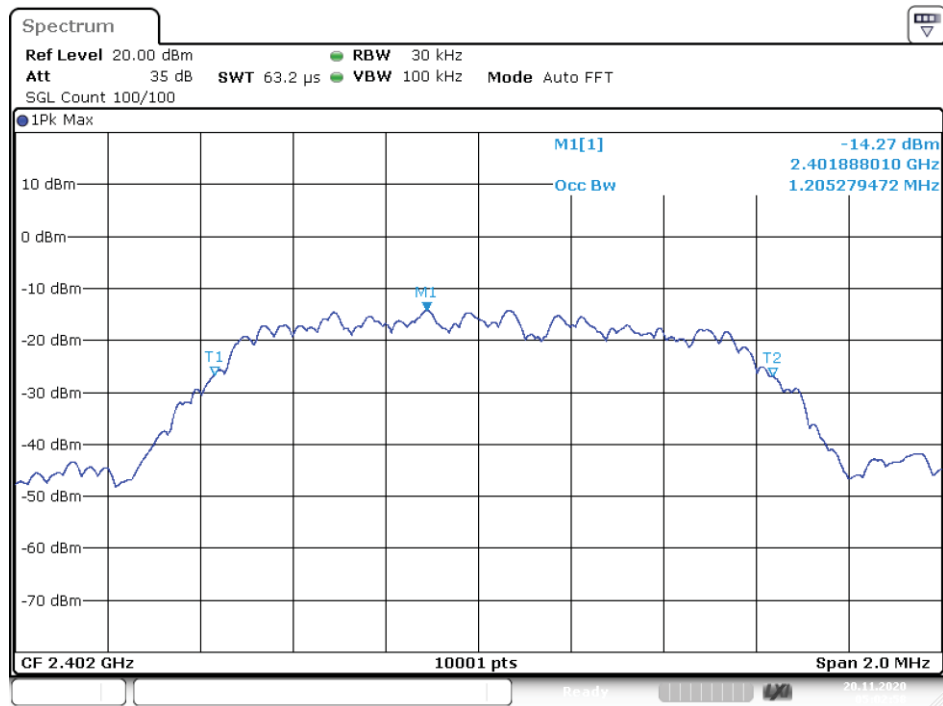
Date: 20.NOV.2020 04:59:57

-20 dB BW NVNT 1-DH1 2480MHz Ant1



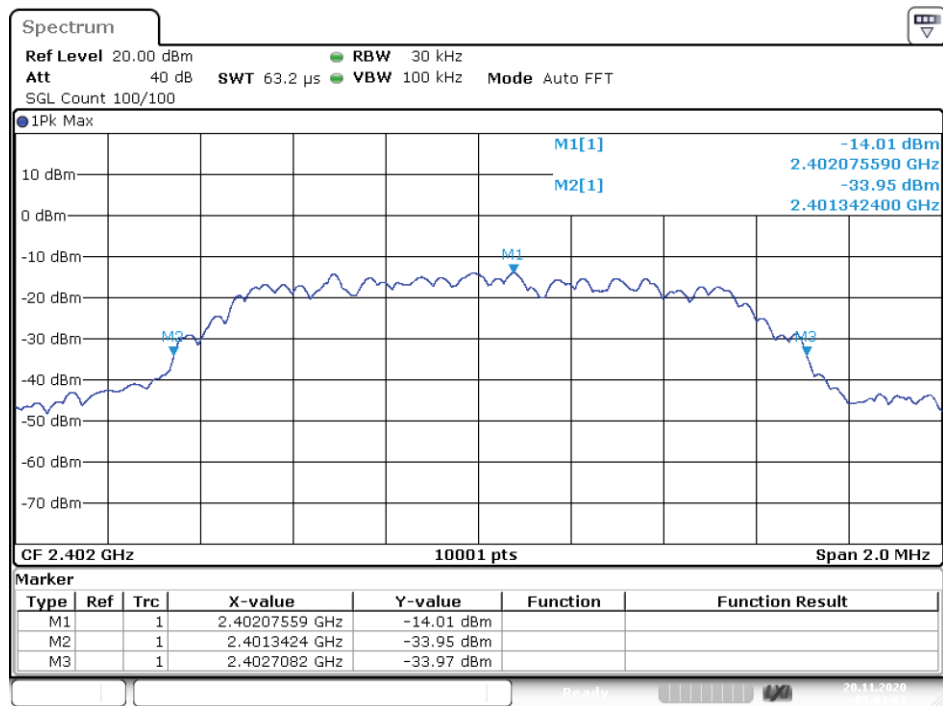
Date: 20.NOV.2020 05:00:00

OBW NVNT 2-DH1 2402MHz Ant1



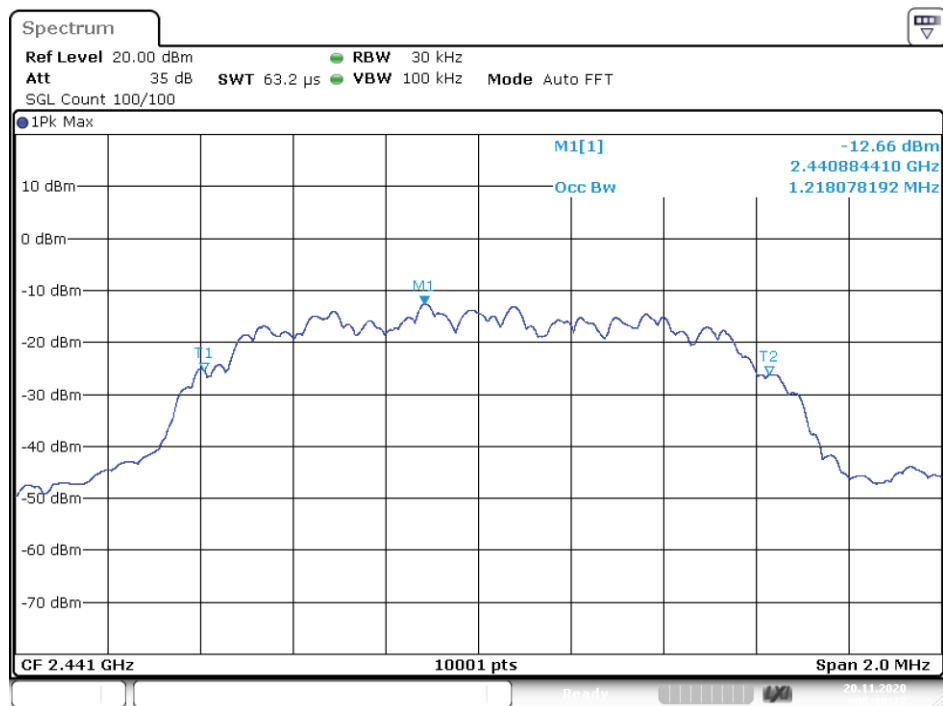
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-20 dB BW NVNT 2-DH1 2402MHz Ant1



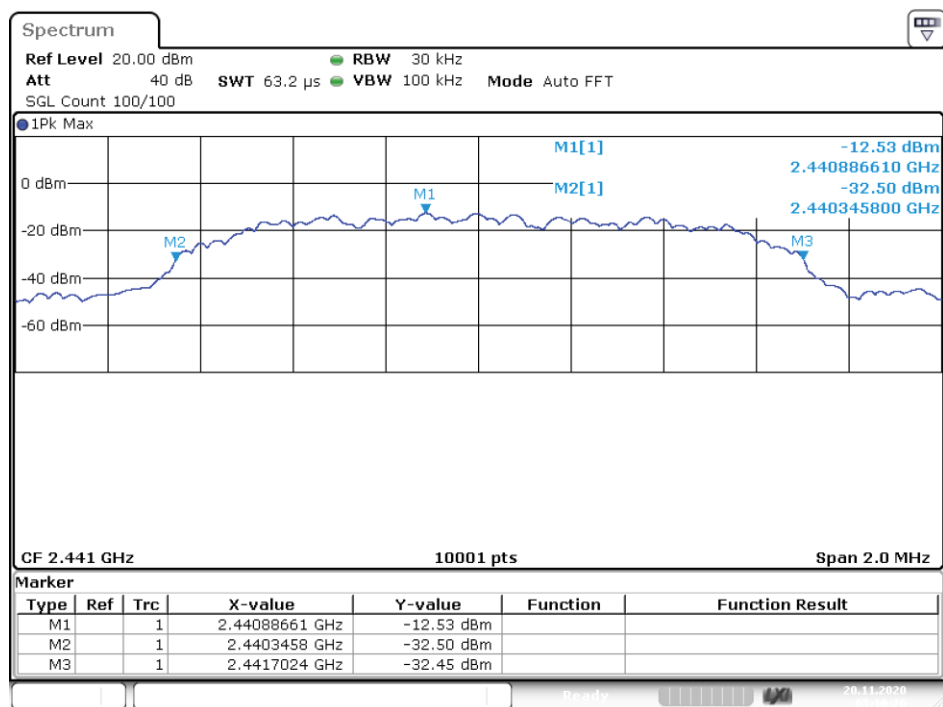
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OBW NVNT 2-DH1 2441MHz Ant1



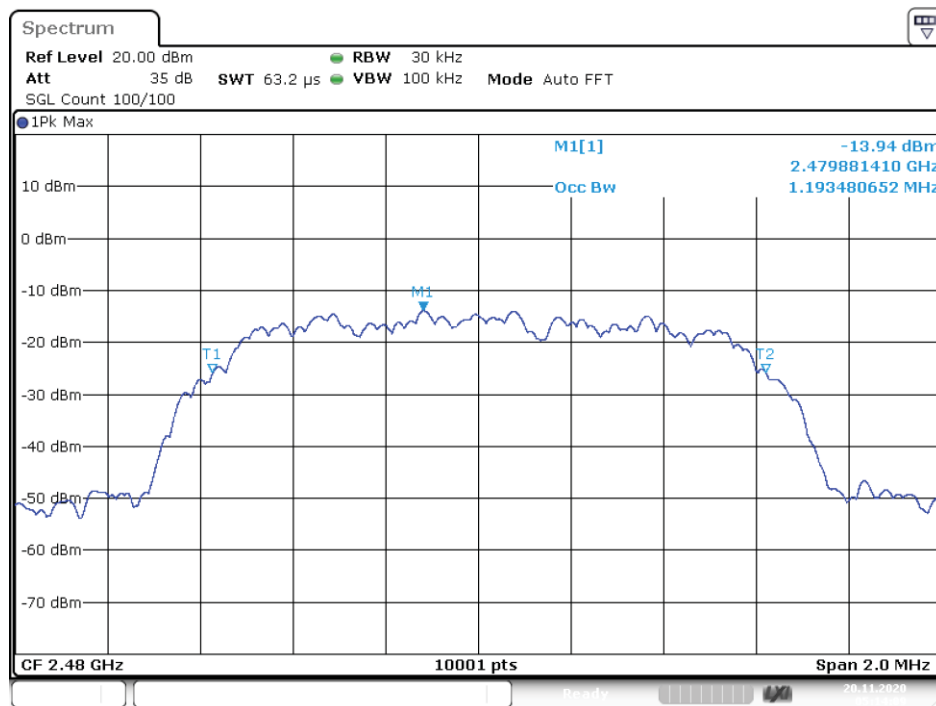
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-20 dB BW NVNT 2-DH1 2441MHz Ant1



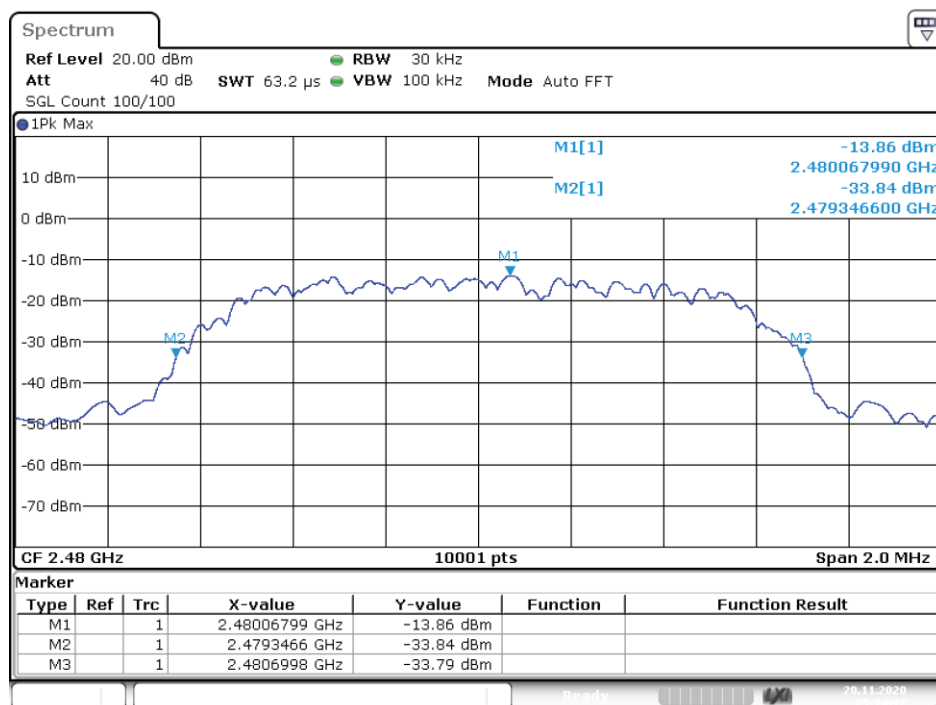
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OBW NVNT 2-DH1 2480MHz Ant1



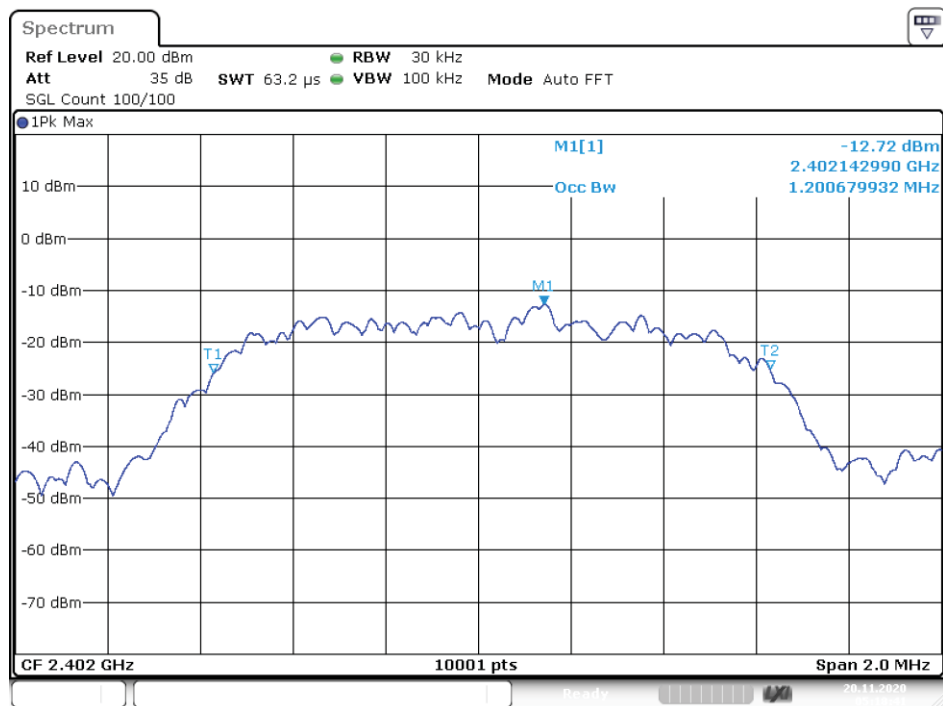
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-20 dB BW NVNT 2-DH1 2480MHz Ant1



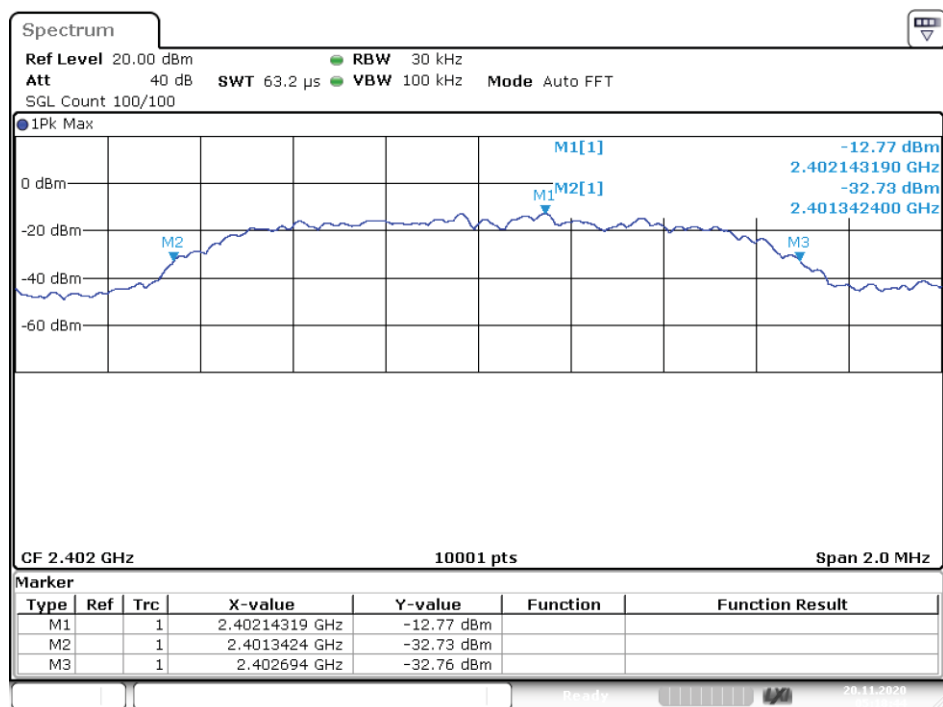
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OBW NVNT 3-DH1 2402MHz Ant1



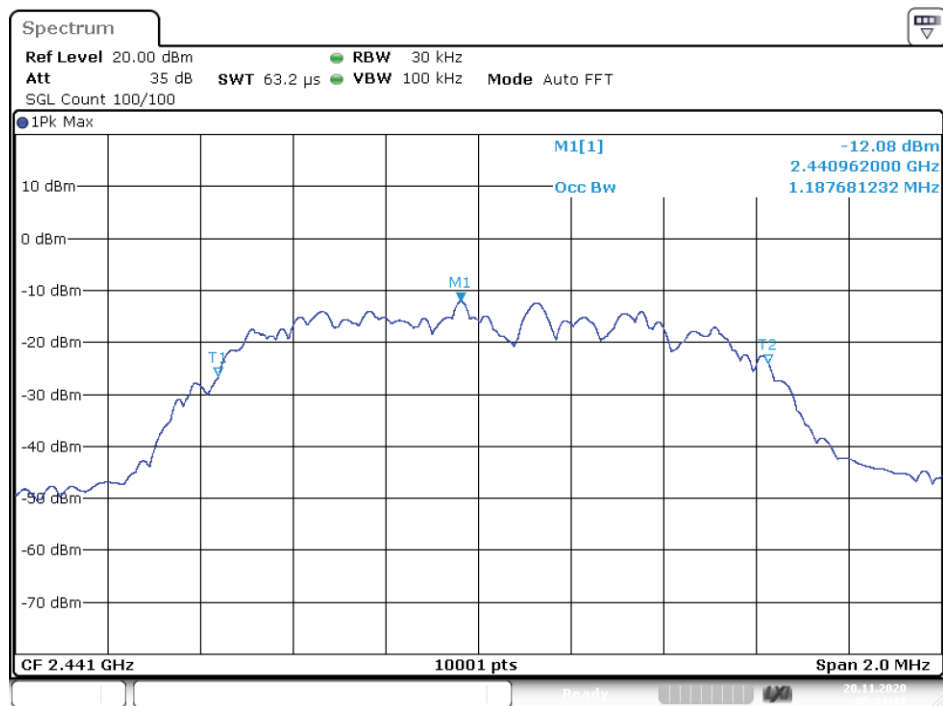
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-20 dB BW NVNT 3-DH1 2402MHz Ant1



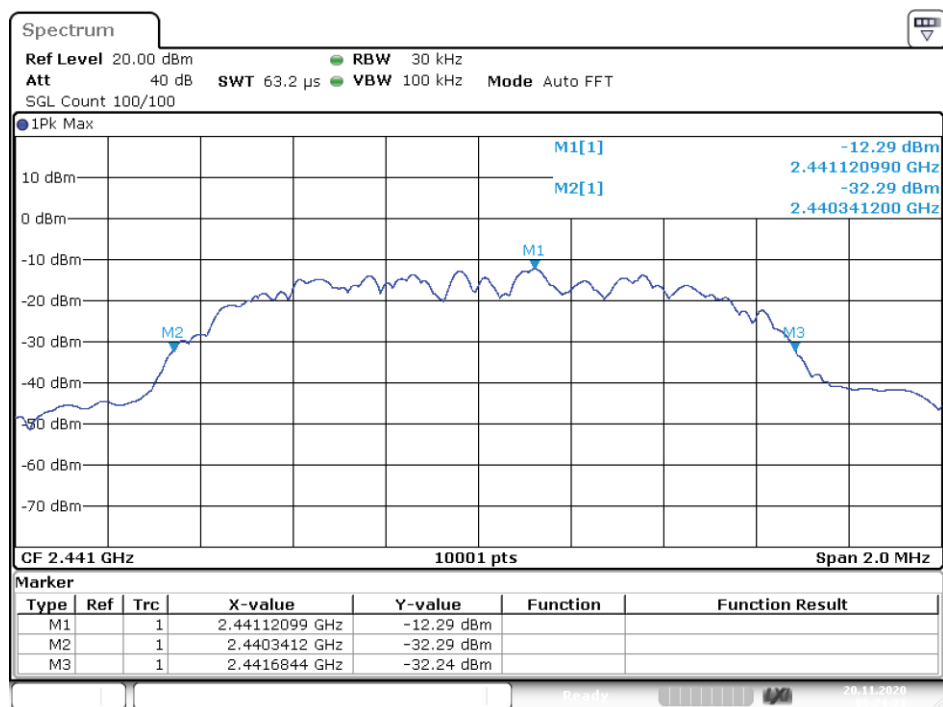
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OBW NVNT 3-DH1 2441MHz Ant1



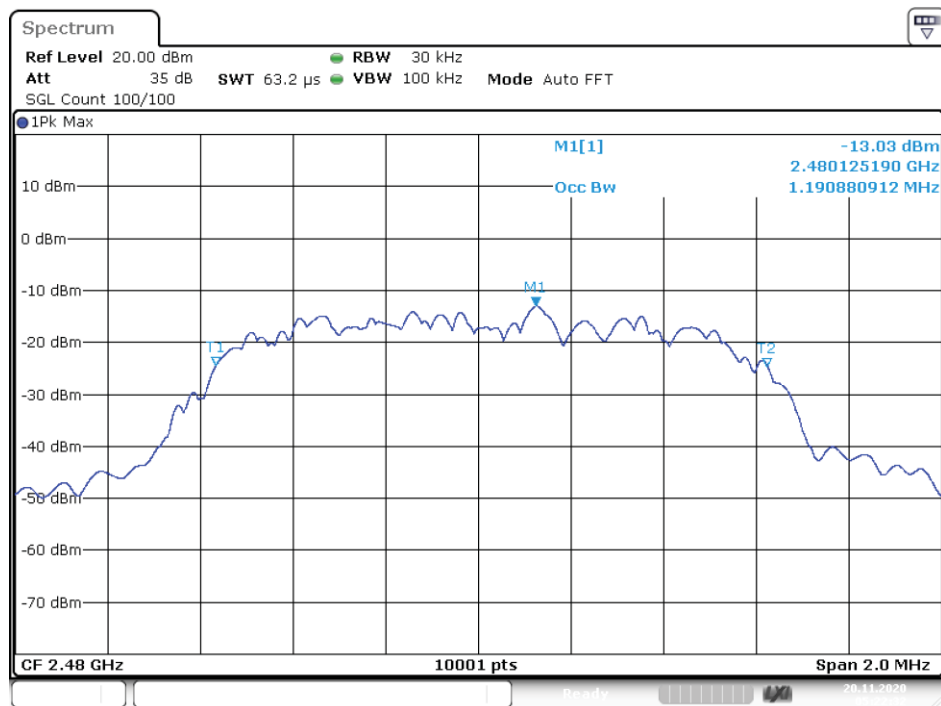
Date: 20.NOV.2020 05:21:18

-20 dB BW NVNT 3-DH1 2441MHz Ant1



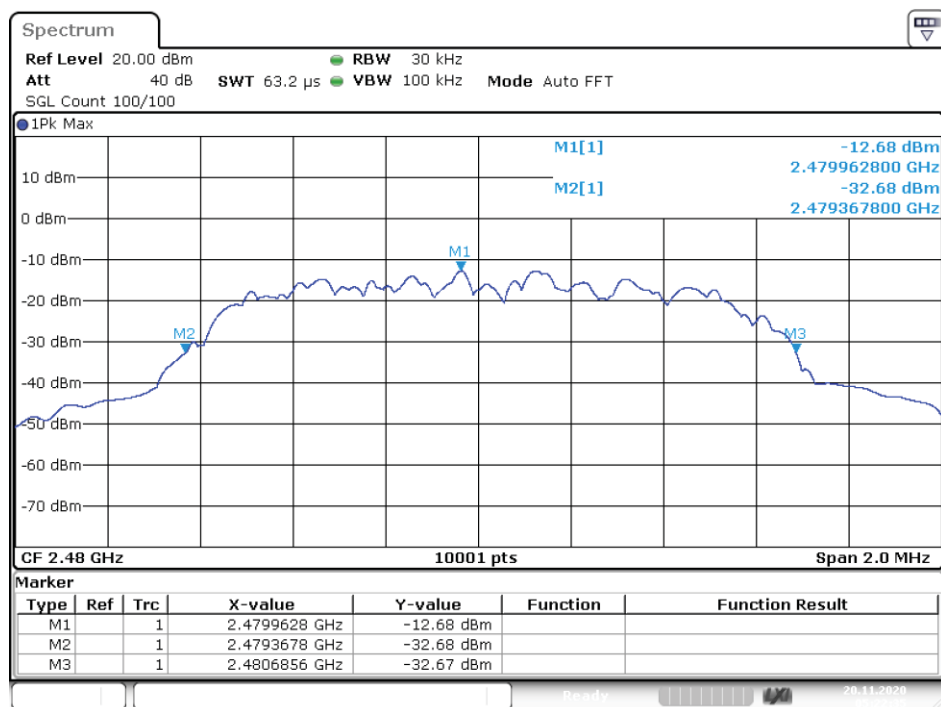
Date: 20.NOV.2020 05:21:21

OBW NVNT 3-DH1 2480MHz Ant1



Date: 20.NOV.2020 05:22:31

-20 dB BW NVNT 3-DH1 2480MHz Ant1



Date: 20.NOV.2020 05:22:35

5. Carrier Frequency Separation

5.1.Limit

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

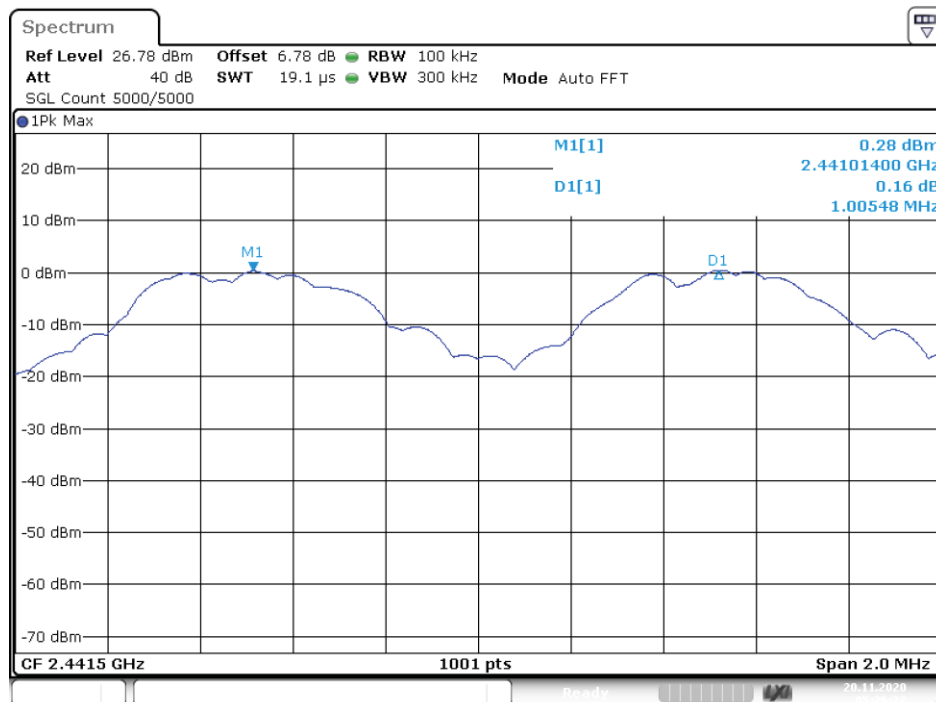
5.2.Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW.

5.3.Test Result

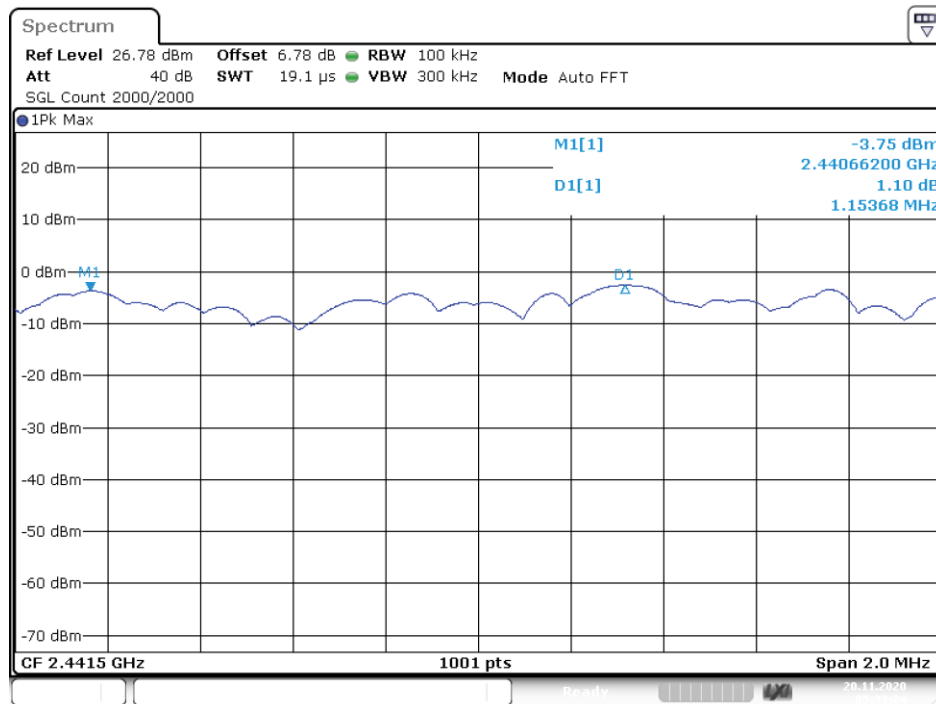
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2441.014	2442.018	1.004	0.680	Pass
NVNT	2-DH1	2440.662	2441.812	1.15	0.911	Pass
NVNT	3-DH1	2441.158	2442.116	0.958	0.901	Pass

CFS NVNT 1-DH1 2441MHz



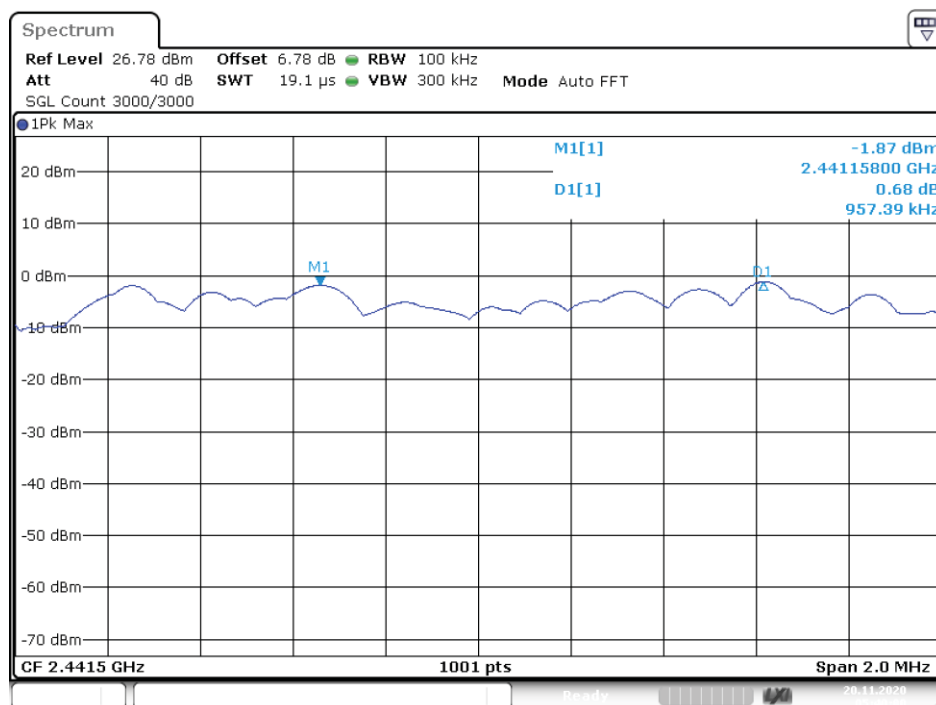
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CFS NVNT 2-DH1 2441MHz



Date: 20.NOV.2020 05:33:24

CFS NVNT 3-DH1 2441MHz



Date: 20.NOV.2020 05:40:01

6. Number of Hopping Channel

6.1.Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

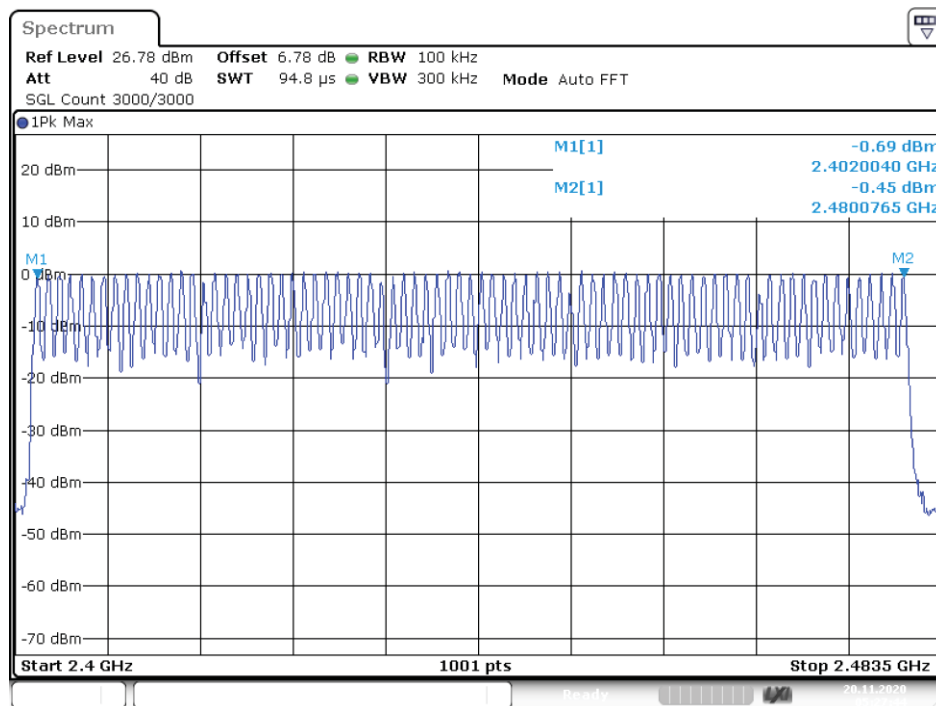
6.2.Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW.

6.3.Test Result

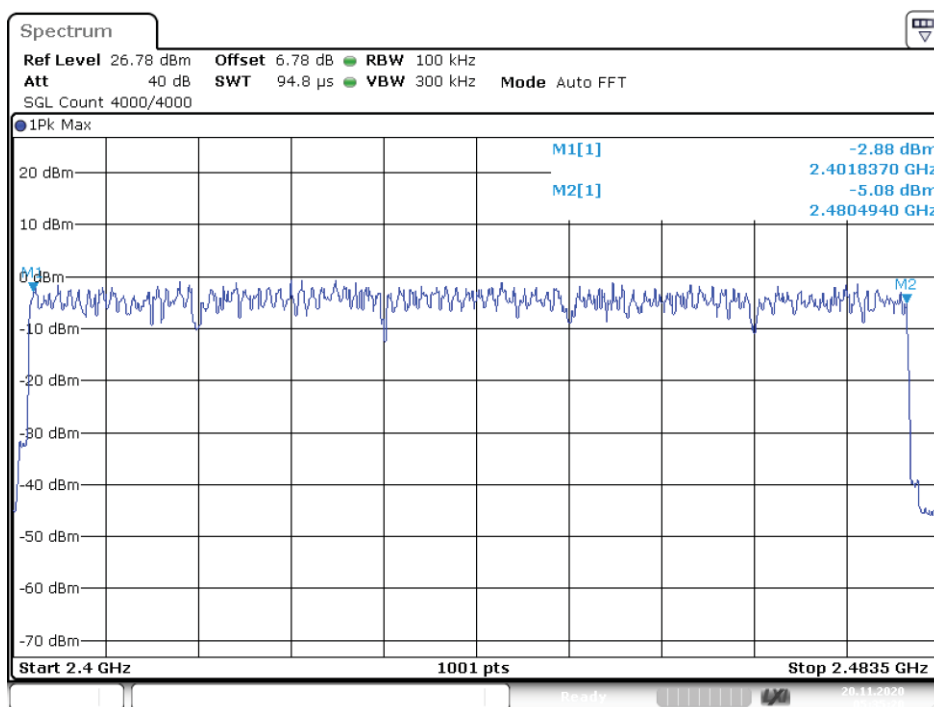
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass

Hopping No. NVNT 1-DH1 2441MHz



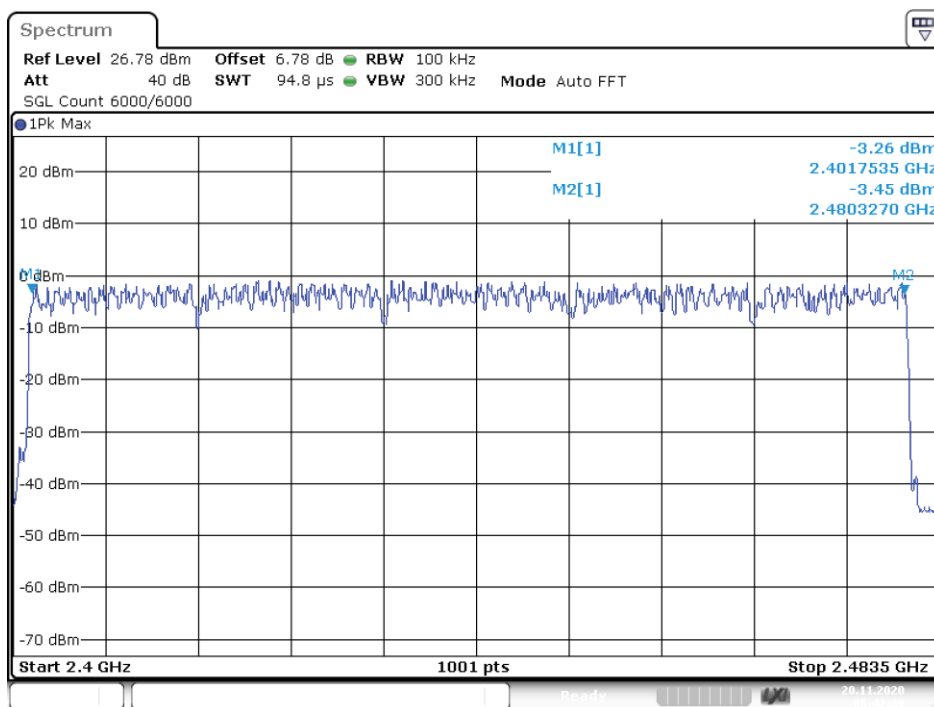
Date: 20.NOV.2020 05:27:43

Hopping No. NVNT 2-DH1 2441MHz



Date: 20.NOV.2020 05:35:20

Hopping No. NVNT 3-DH1 2441MHz



Date: 20.NOV.2020 05:42:49

7. Dwell Time

7.1. Test limit

Please refer section 15.247

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

7.2. Test Procedure

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span = 0Hz, Sweep = auto.

7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Result

PASS.

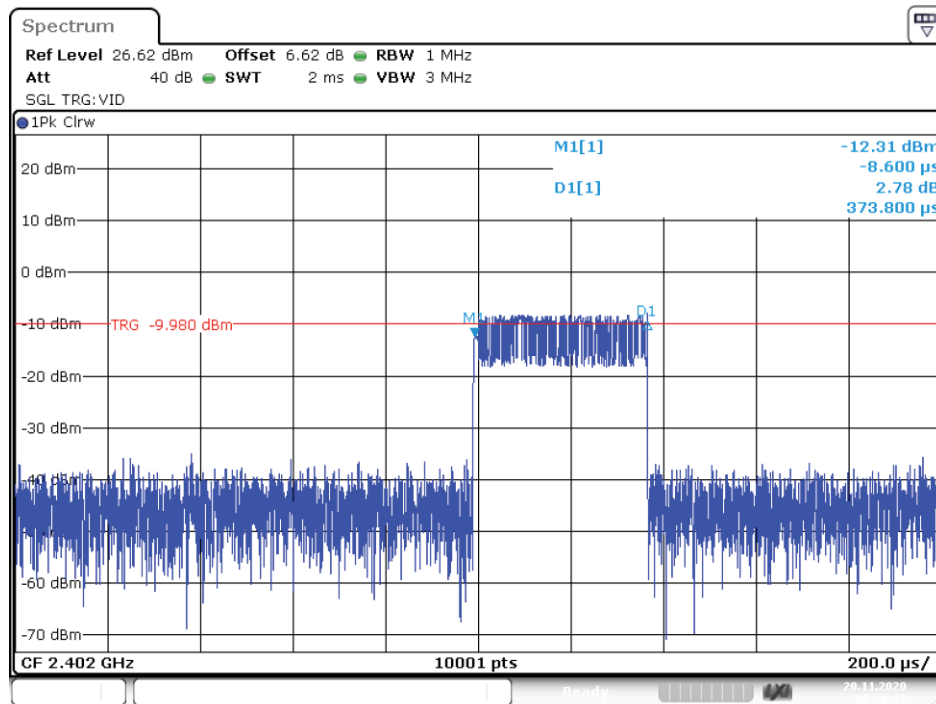
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2402	0.374	119.68	31600	400	Pass
NVNT	1-DH1	2441	0.393	125.76	31600	400	Pass
NVNT	1-DH1	2480	0.375	120.00	31600	400	Pass
NVNT	1-DH3	2441	1.664	266.24	31600	400	Pass
NVNT	1-DH5	2441	2.918	311.25	31600	400	Pass
NVNT	2-DH1	2402	0.373	119.36	31600	400	Pass
NVNT	2-DH1	2441	0.373	119.36	31600	400	Pass
NVNT	2-DH1	2460	0.374	119.68	31600	400	Pass
NVNT	2-DH3	2441	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	2.916	311.04	31600	400	Pass
NVNT	3-DH1	2402	0.394	126.08	31600	400	Pass
NVNT	3-DH1	2441	0.374	119.68	31600	400	Pass
NVNT	3-DH1	2480	0.393	125.76	31600	400	Pass
NVNT	3-DH3	2441	1.642	262.72	31600	400	Pass
NVNT	3-DH5	2441	2.916	311.04	31600	400	Pass

Note: Dwell time = Pulse time (ms) $\times$ (1600 $\div$ 2 $\div$ 79) $\times$ 31.6 Second for DH1, 2-DH1, 3-DH1

Dwell time = Pulse time (ms) $\times$ (1600 $\div$ 4 $\div$ 79) $\times$ 31.6 Second for DH3, 2-DH3, 3-DH3

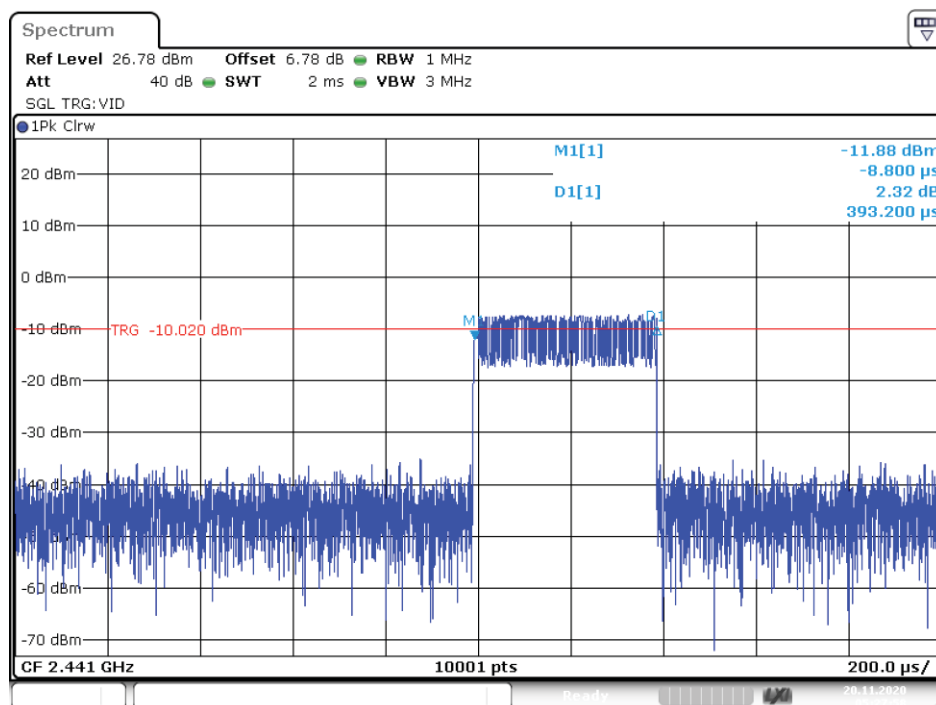
Dwell time = Pulse time (ms) $\times$ (1600 $\div$ 6 $\div$ 79) $\times$ 31.6 Second for DH5, 2-DH5, 3-DH5

Dwell NVNT 1-DH1 2402MHz



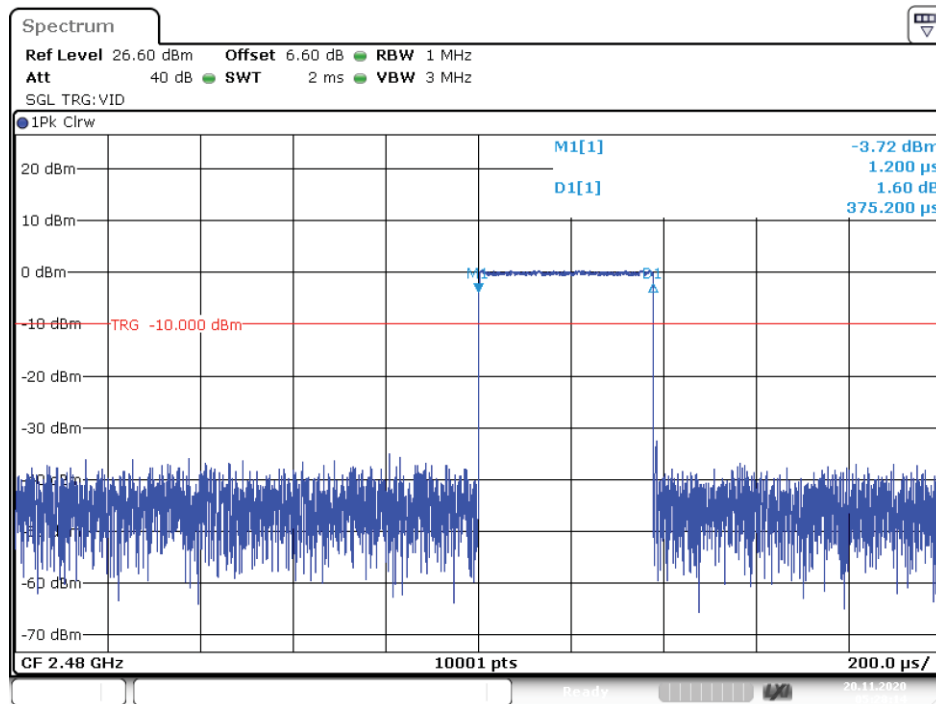
Date: 20.NOV.2020 05:28:37

Dwell NVNT 1-DH1 2441MHz



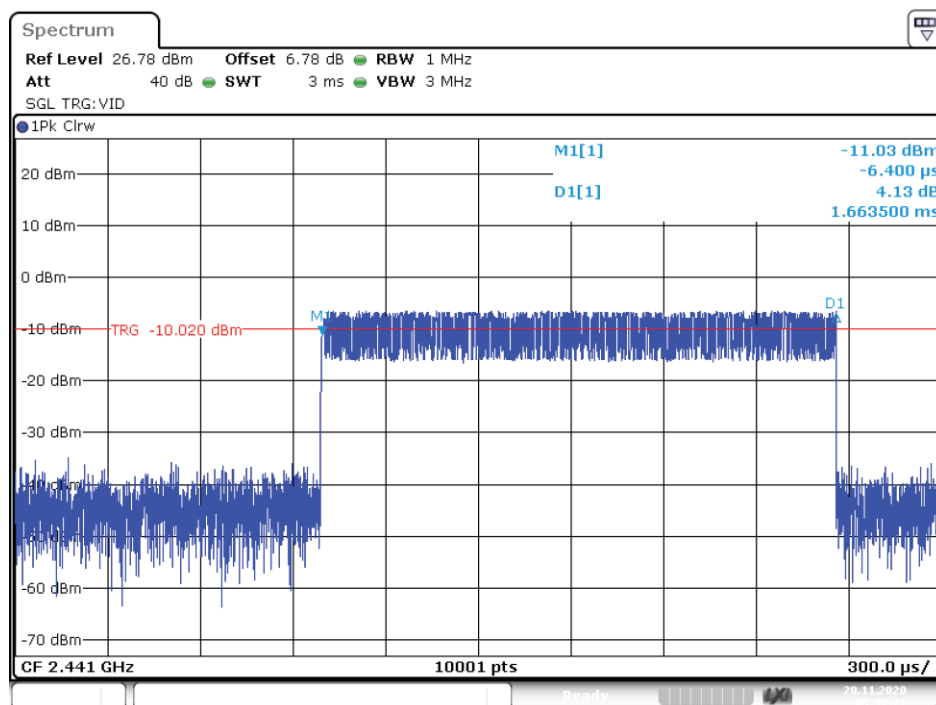
Date: 20.NOV.2020 05:27:57

Dwell NVNT 1-DH1 2480MHz



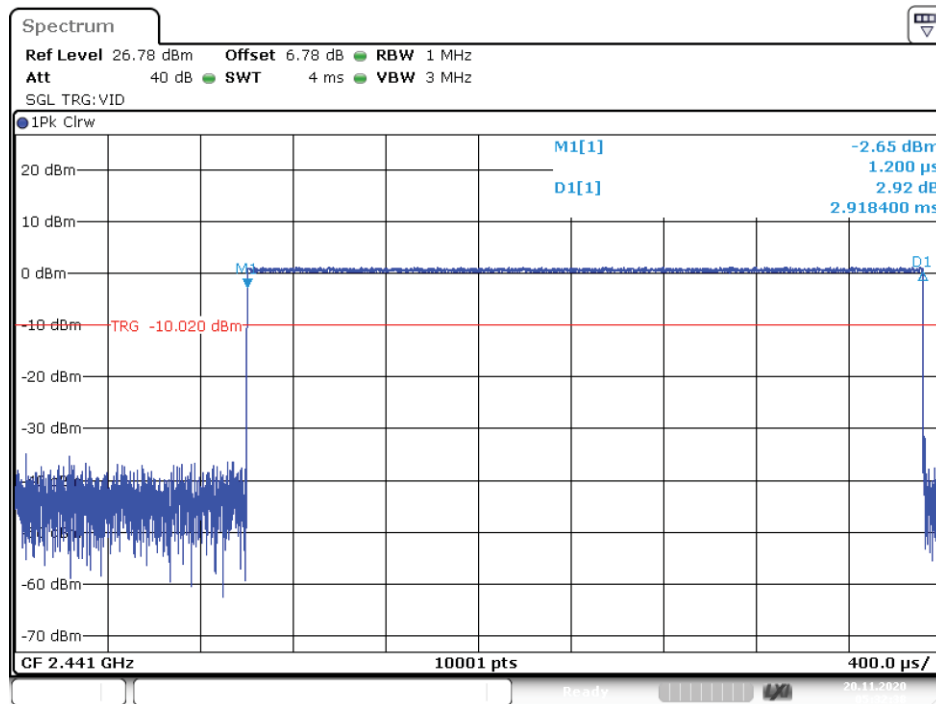
Date: 20.NOV.2020 05:28:13

Dwell NVNT 1-DH3 2441MHz



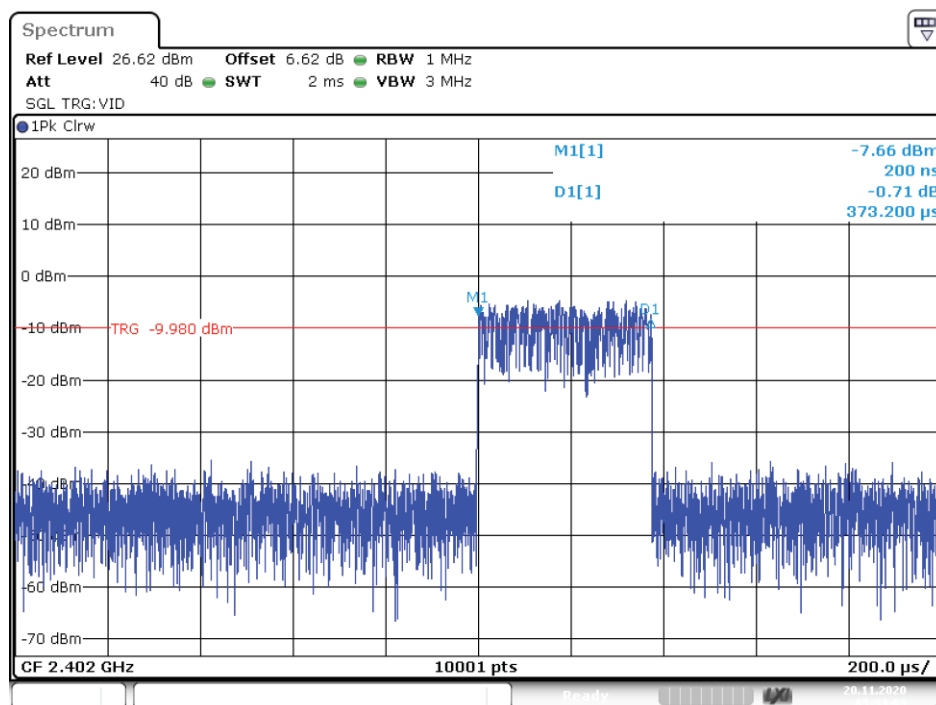
Date: 20.NOV.2020 05:32:21

Dwell NVNT 1-DH5 2441MHz



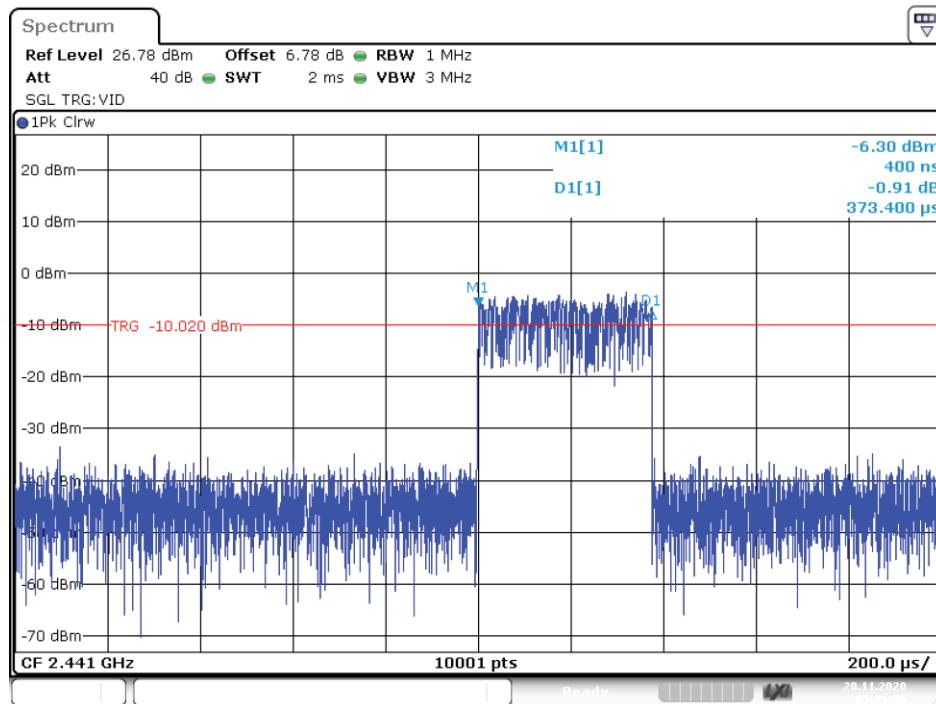
Date: 20.NOV.2020 05:32:38

Dwell NVNT 2-DH1 2402MHz



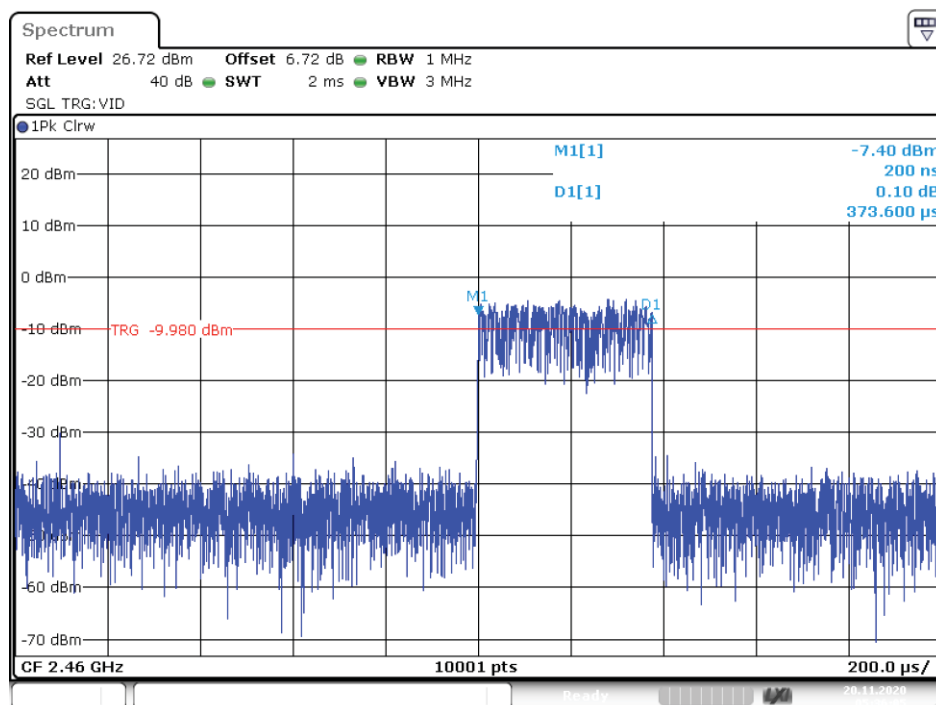
Date: 20.NOV.2020 05:33:03

Dwell NVNT 2-DH1 2441MHz



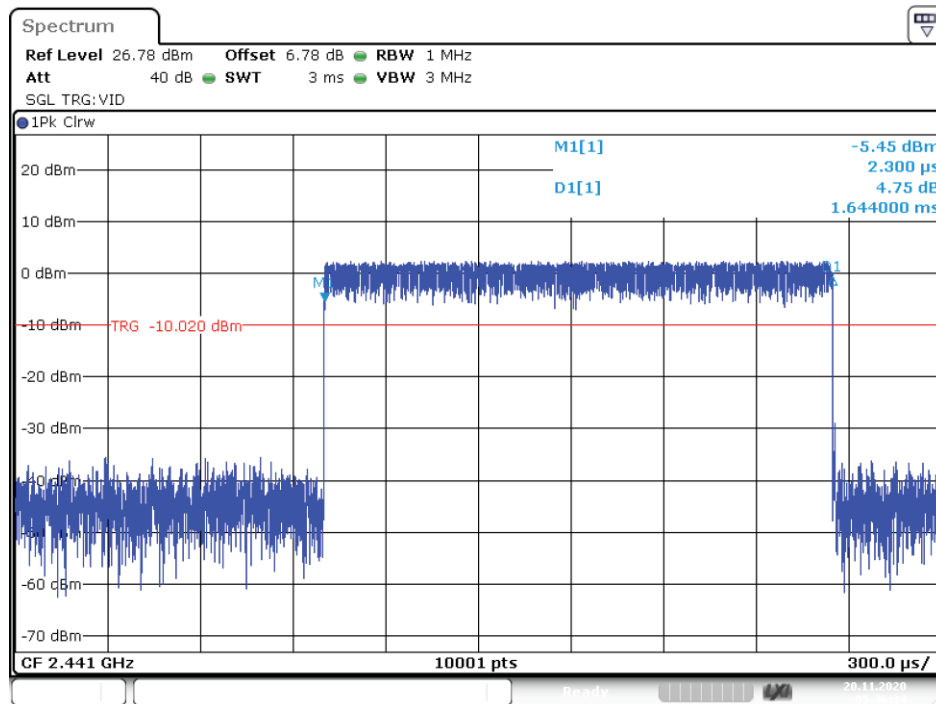
Date: 20.NOV.2020 05:35:35

Dwell NVNT 2-DH1 2460MHz



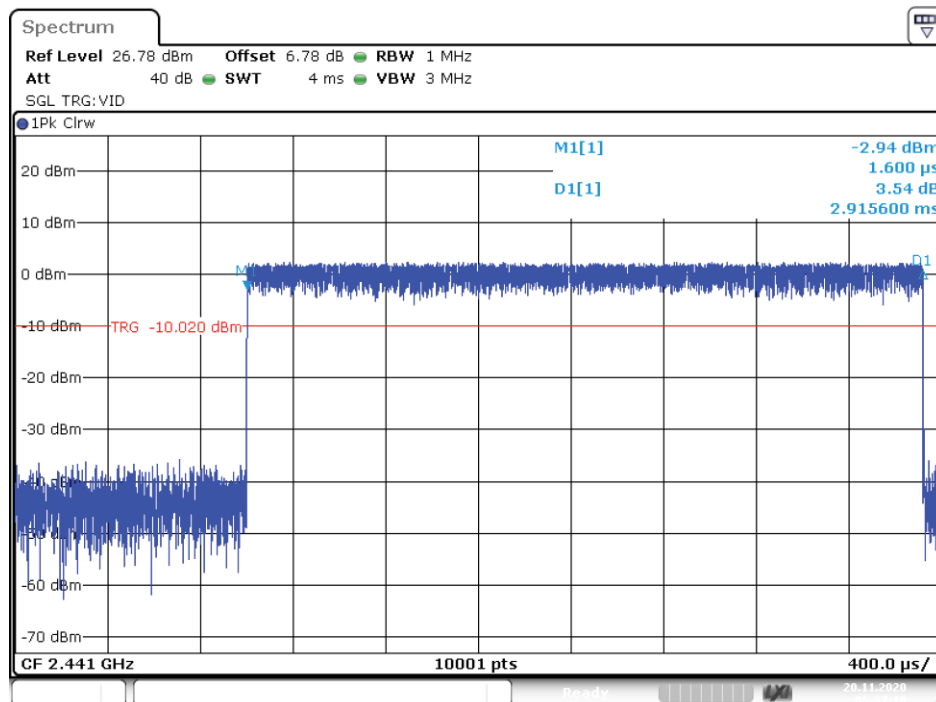
Date: 20.NOV.2020 05:36:05

Dwell NVNT 2-DH3 2441MHz



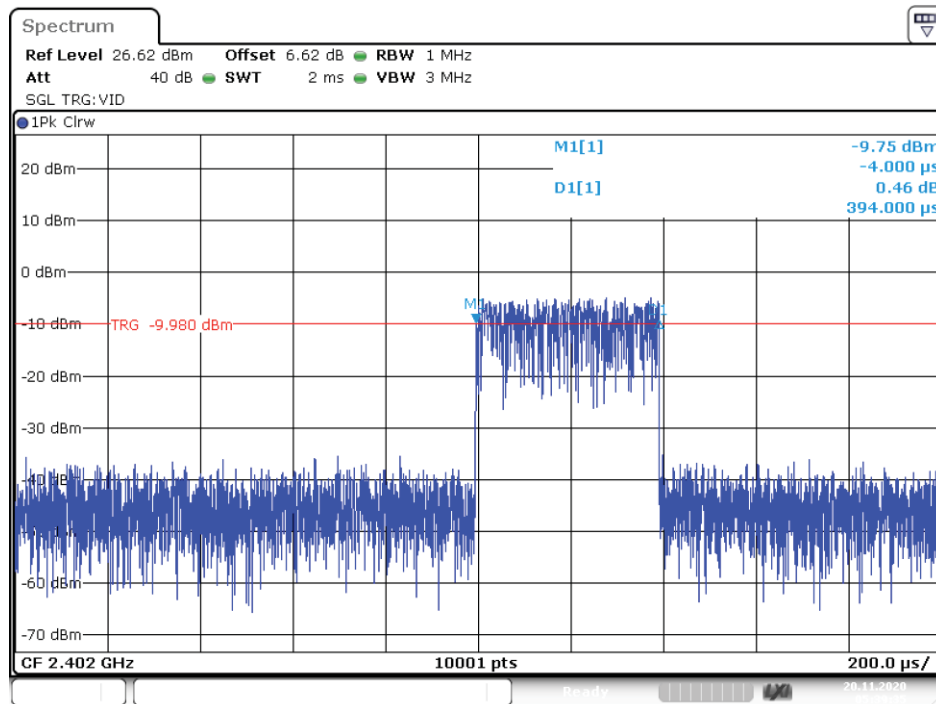
Date: 20.NOV.2020 05:36:34

Dwell NVNT 2-DH5 2441MHz



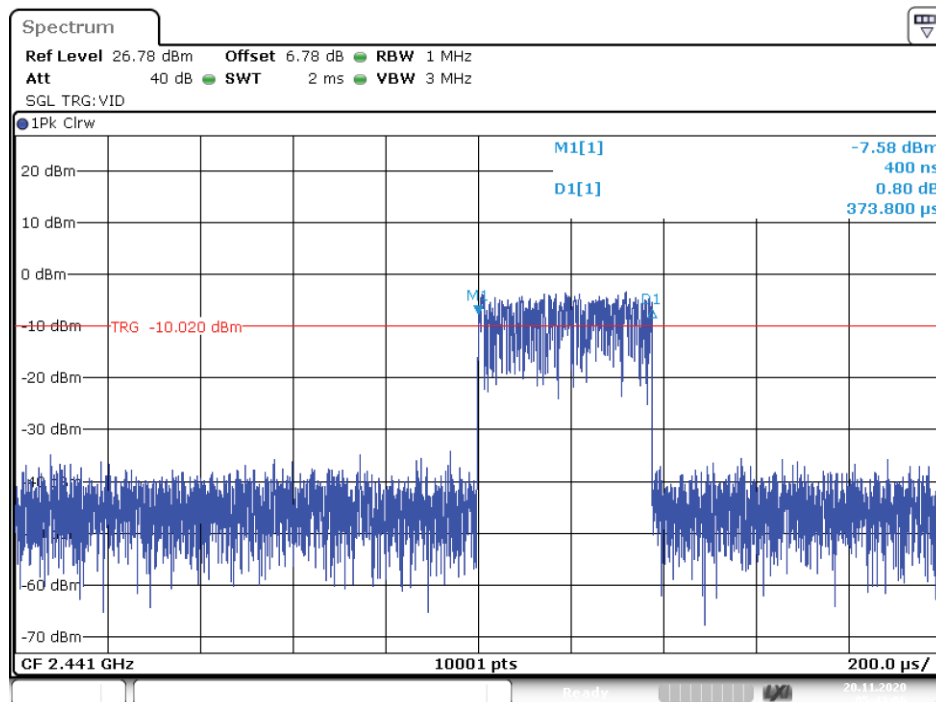
Date: 20.NOV.2020 05:37:10

Dwell NVNT 3-DH1 2402MHz



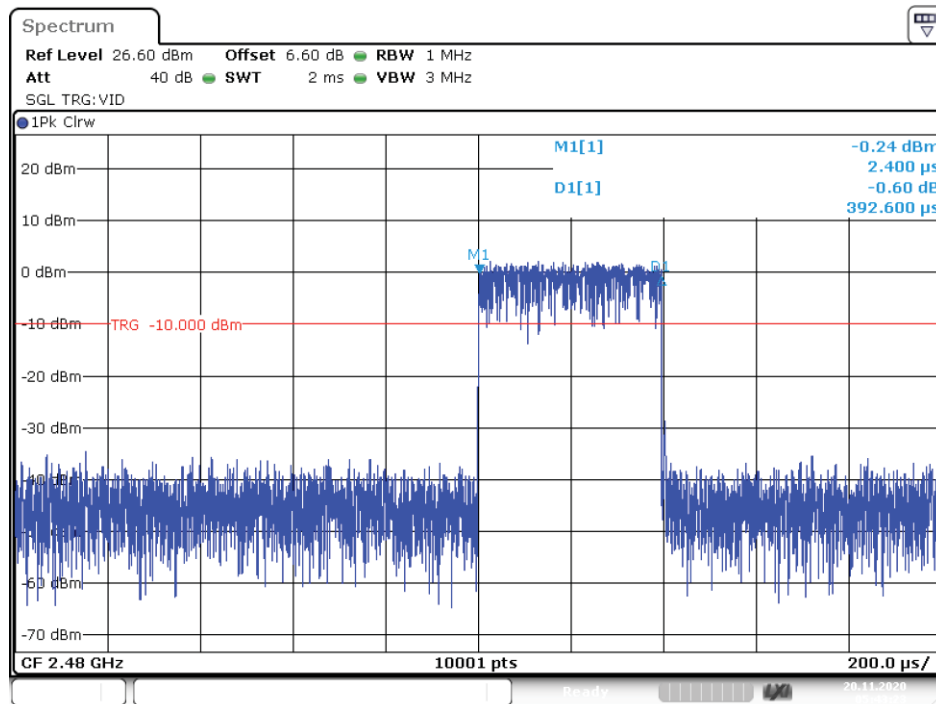
Date: 20.NOV.2020 05:39:35

Dwell NVNT 3-DH1 2441MHz



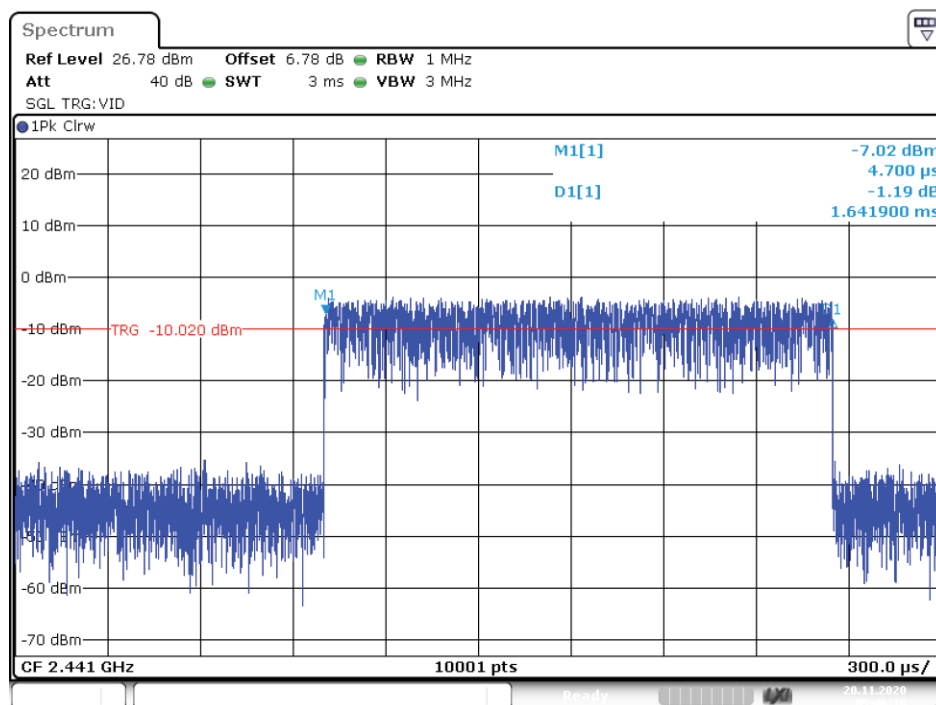
Date: 20.NOV.2020 05:43:05

Dwell NVNT 3-DH1 2480MHz



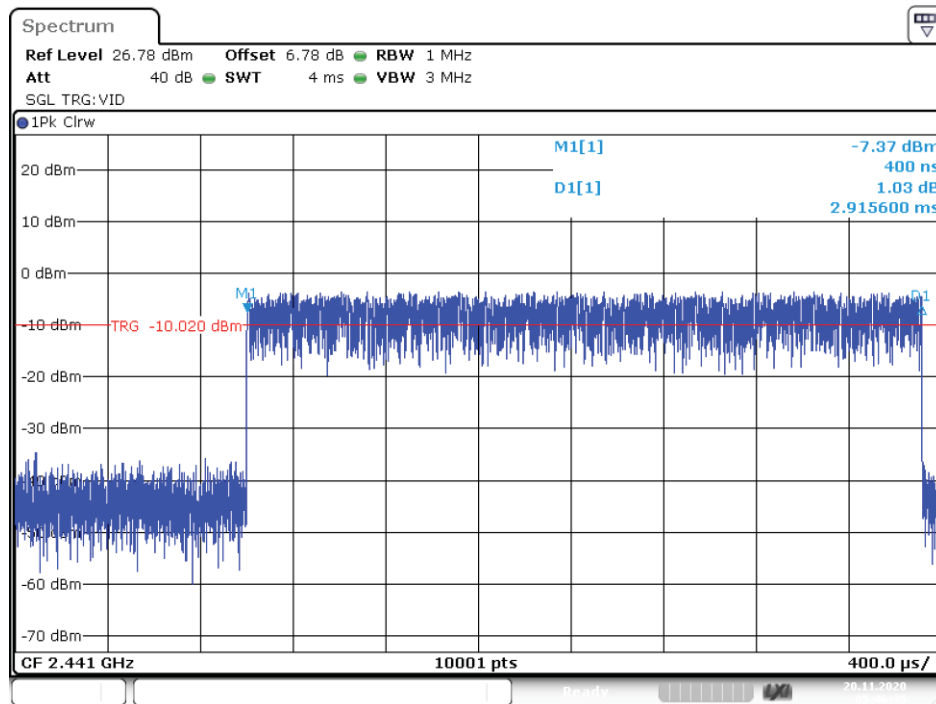
Date: 20.NOV.2020 05:43:22

Dwell NVNT 3-DH3 2441MHz



Date: 20.NOV.2020 05:46:16

Dwell NVNT 3-DH5 2441MHz



Date: 20.NOV.2020 05:46:35

8. Radiated Emissions

8.1.Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

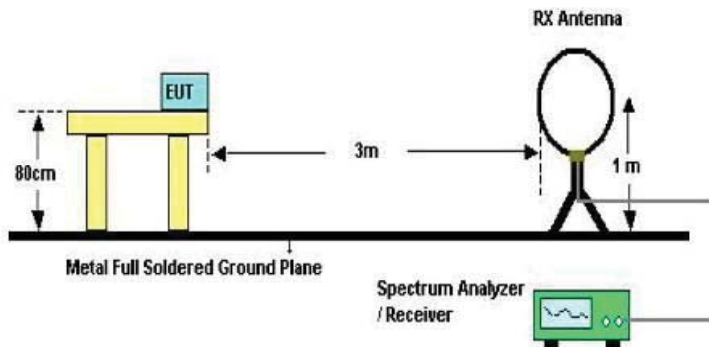
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

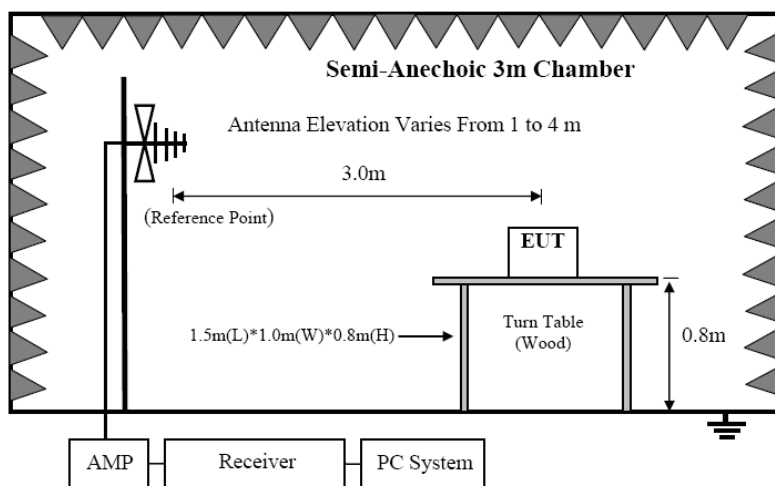
FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

8.2. Block Diagram of Test setup

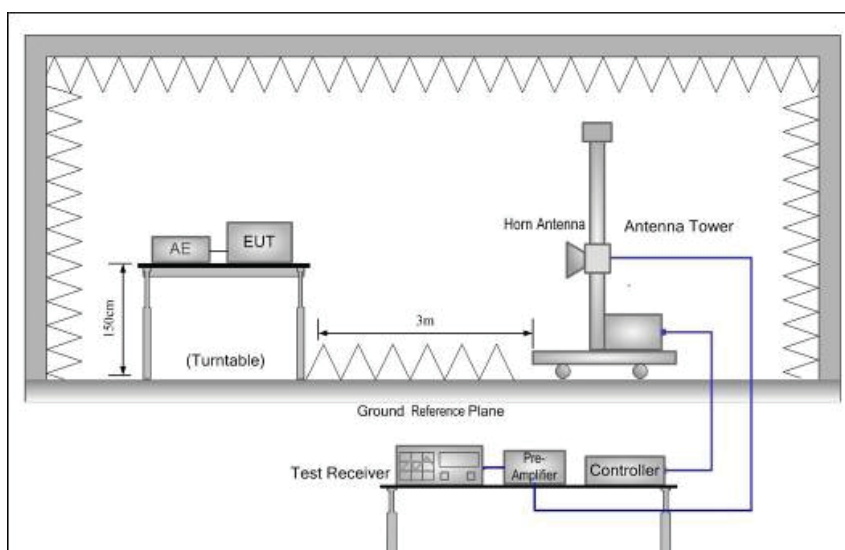
8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

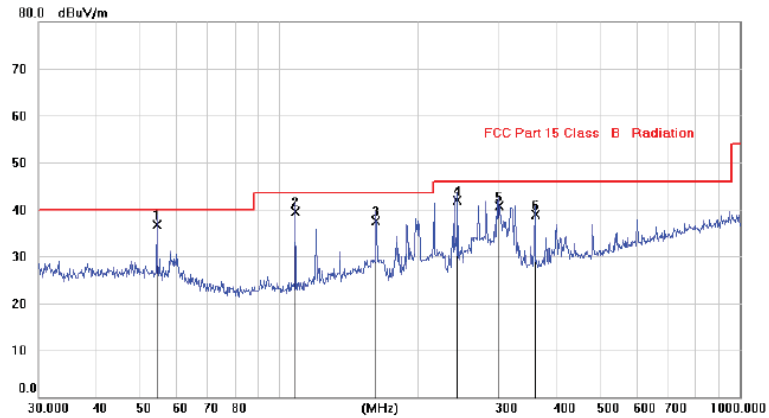
8.4. Test Result

We have scanned the 10th harmonic from 9KHz to the EUT's highest frequency..
Detailed information please see the following page.

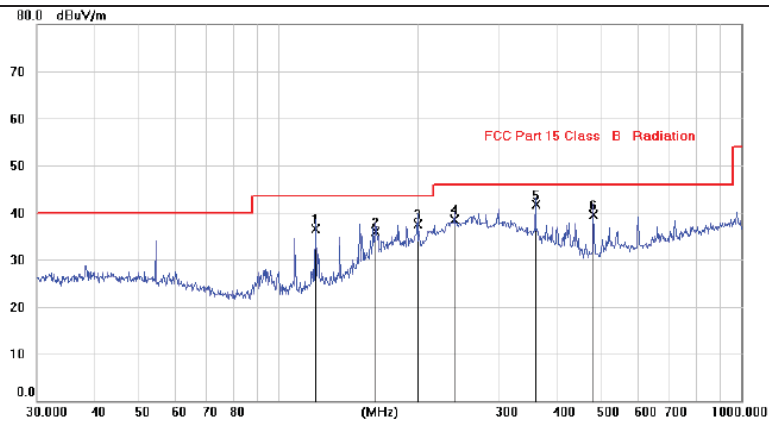
From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1000MHz: Conclusion: PASS

Pol**Vertical**

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1 *	54.1895	23.12	13.66	36.78	40.00	-3.22	QP		
2	108.4090	27.91	11.67	39.58	43.50	-3.92	QP		
3	162.6105	22.79	14.75	37.54	43.50	-5.96	QP		
4	243.9111	29.25	12.60	41.85	46.00	-4.15	QP		
5	299.8410	26.56	14.05	40.61	46.00	-5.39	QP		
6	359.8163	23.54	15.41	38.95	46.00	-7.05	QP		

Pol**Horizontal**

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	119.9607	23.62	12.97	36.59	43.50	-6.91	QP		
2	162.6105	21.23	14.75	35.98	43.50	-7.52	QP		
3	199.8978	26.62	10.89	37.51	43.50	-5.99	QP		
4	239.8821	25.97	12.54	38.51	46.00	-7.49	QP		
5 *	359.8163	26.21	15.41	41.62	46.00	-4.38	QP		
6	479.8960	21.62	17.89	39.51	46.00	-6.49	QP		

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data of (GFSK) was listed in this report.

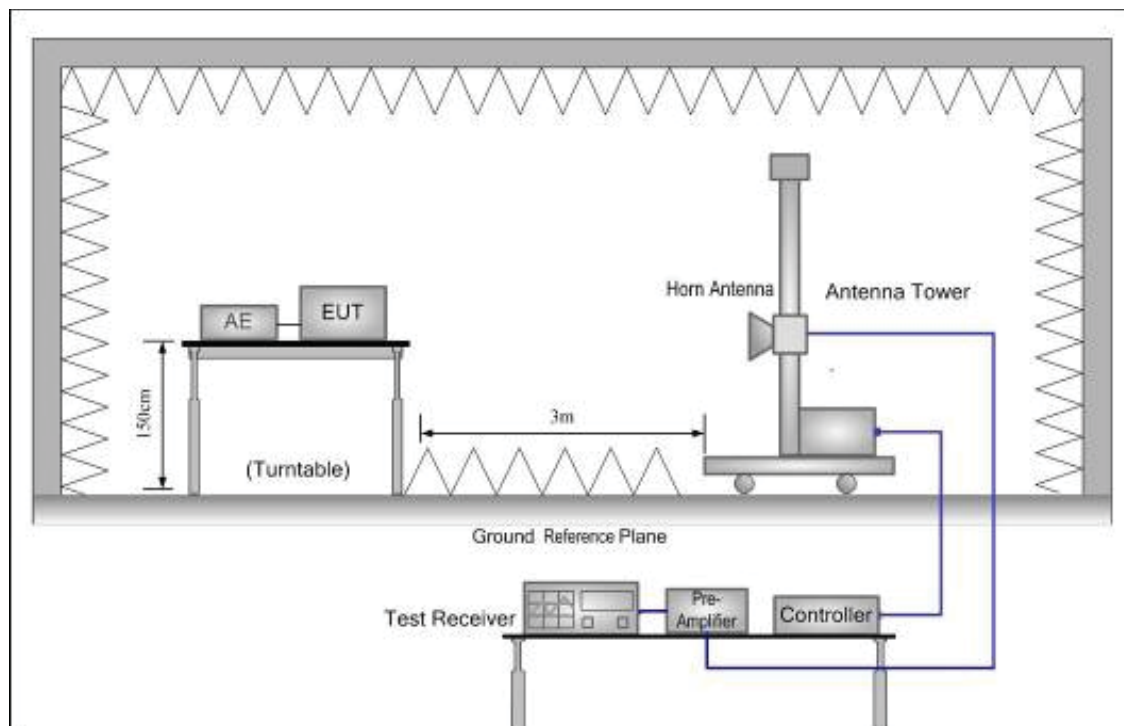
From 1G-25GHz

Test Mode: GFSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	45.58	V	33.95	10.18	34.26	55.45	74	18.55	PK
4804	39.11	V	33.95	10.18	34.26	48.98	54	5.02	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4824	45.71	H	33.95	10.18	34.26	55.58	74	18.42	PK
4824	33.19	H	33.95	10.18	34.26	43.06	54	10.94	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: GFSK TX Mid									
4882	41.28	V	33.93	10.2	34.29	51.12	74	22.88	PK
4882	36.57	V	33.93	10.2	34.29	46.41	54	7.59	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
4882	44.36	H	33.93	10.2	34.29	54.20	74	19.80	PK
4882	36.16	H	33.93	10.2	34.29	46.00	54	8.00	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
Test Mode: GFSK TX High									
4960	43.37	V	33.98	10.22	34.25	53.32	74	20.68	PK
4960	34.22	V	33.98	10.22	34.25	44.17	54	9.83	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	42.71	H	33.98	10.22	34.25	52.66	74	21.34	PK
4960	32.14	H	33.98	10.22	34.25	42.09	54	11.91	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
Note: 1, Result = Read level + Antenna factor + cable loss-Amp factor 2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

Remark: All modes have been tested, and only worst data of (GFSK) was listed in this report.

9. Band Edge Compliance

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

All restriction band and non- restriction band have been tested, only worse case is reported.

9.4. Test Result

PASS. (See below detailed test data)

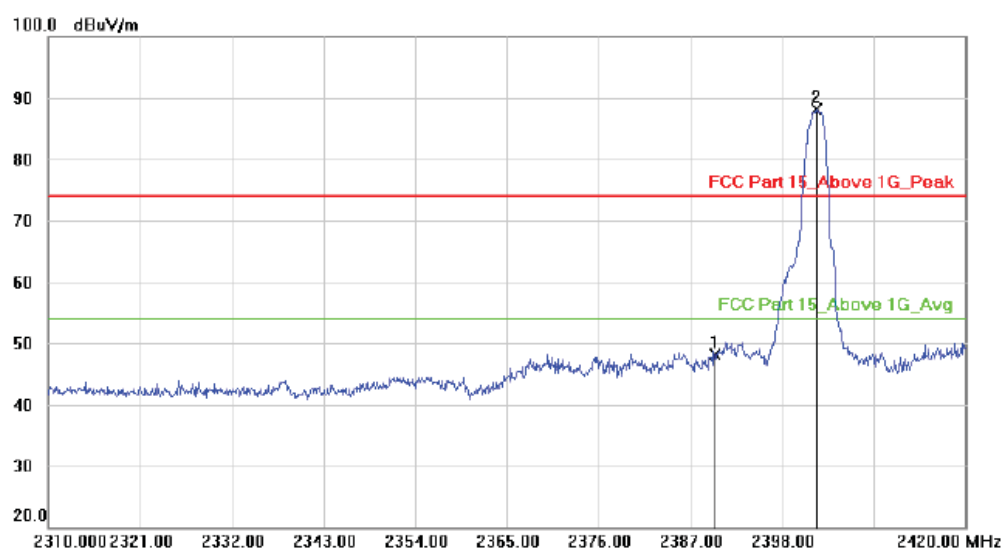
Radiated Method:

Hopping-off

Polarization: Vertical

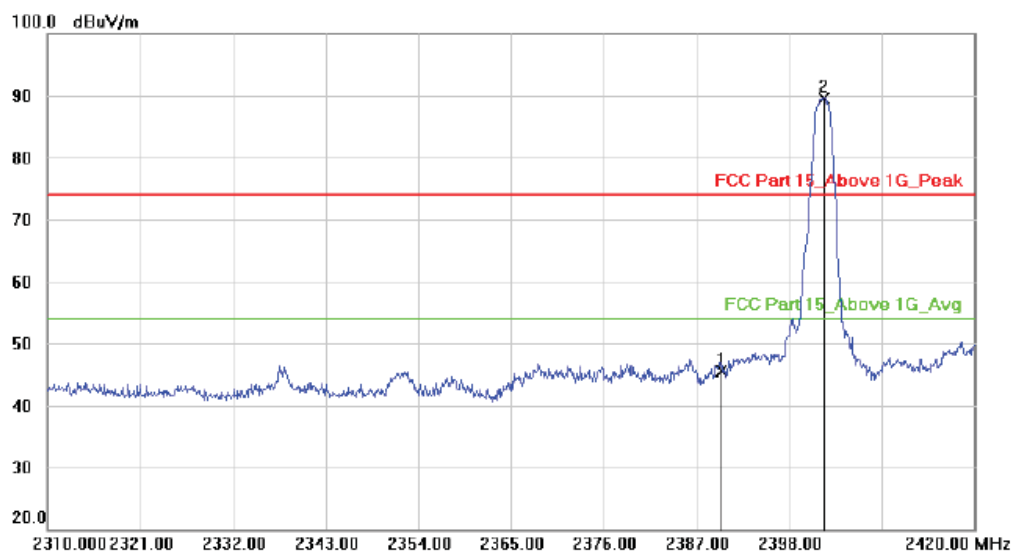
Test Mode:

GFSK-Low



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2390.000	51.51	-3.40	48.11	74.00	-25.89	peak		
2	*	2402.180	91.51	-3.41	88.10	74.00	14.10	peak		

Polarization: Horizontal



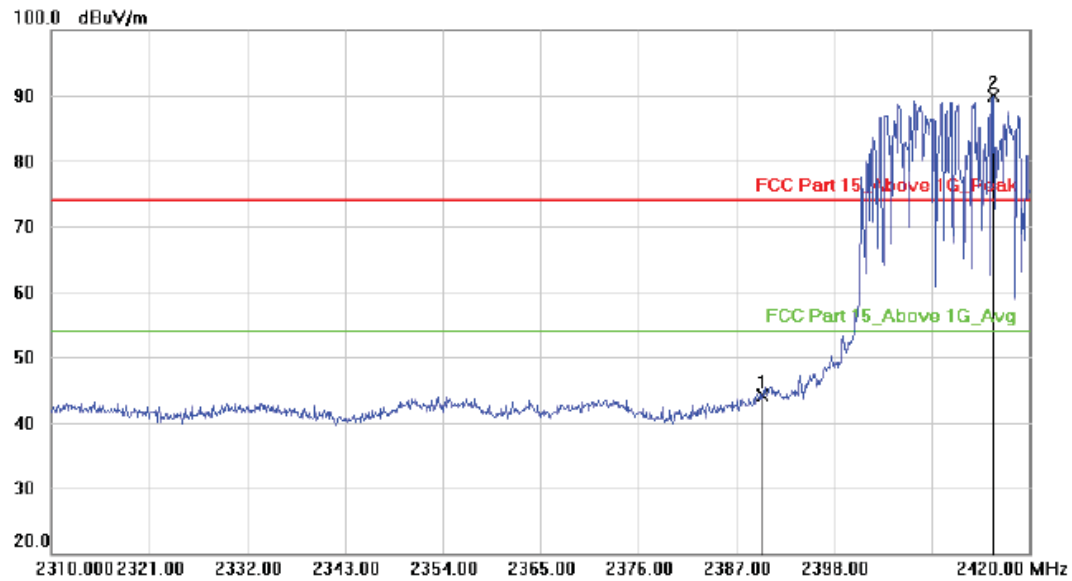
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2390.000	48.95	-3.40	45.55	74.00	-28.45	peak		
2	*	2402.180	92.93	-3.41	89.52	74.00	15.52	peak		

Hopping-on

Polarization: Vertical

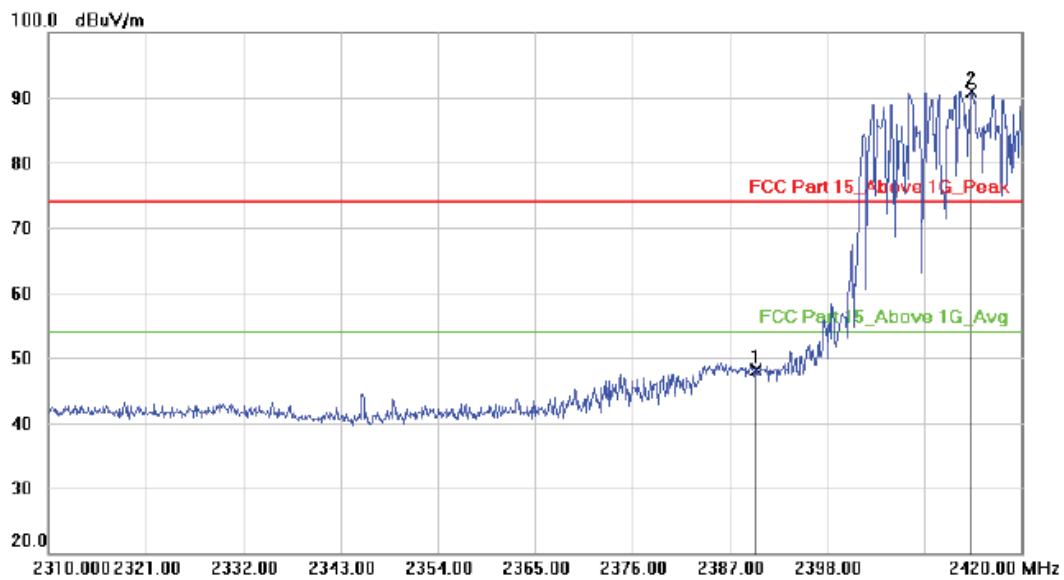
Test Mode:

GFSK-Low



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2390.000	47.47	-3.40	44.07	74.00	-29.93	peak		
2	*	2415.930	93.35	-3.41	89.94	74.00	15.94	peak		

Polarization: Horizontal



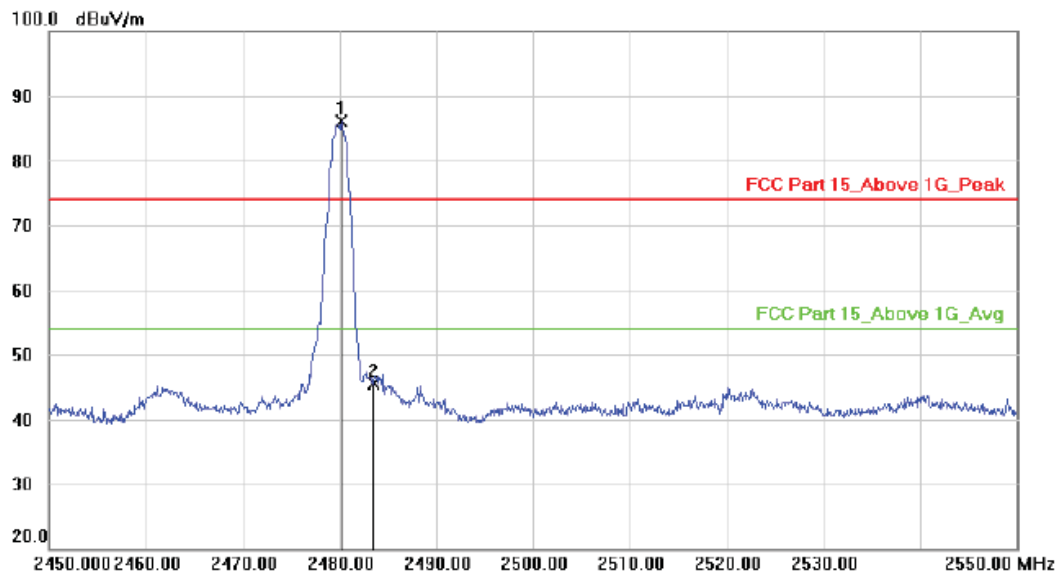
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2390.000	51.46	-3.40	48.06	74.00	-25.94	peak		
2	*	2414.390	94.34	-3.41	90.93	74.00	16.93	peak		

Hopping-off

Polarization: Vertical

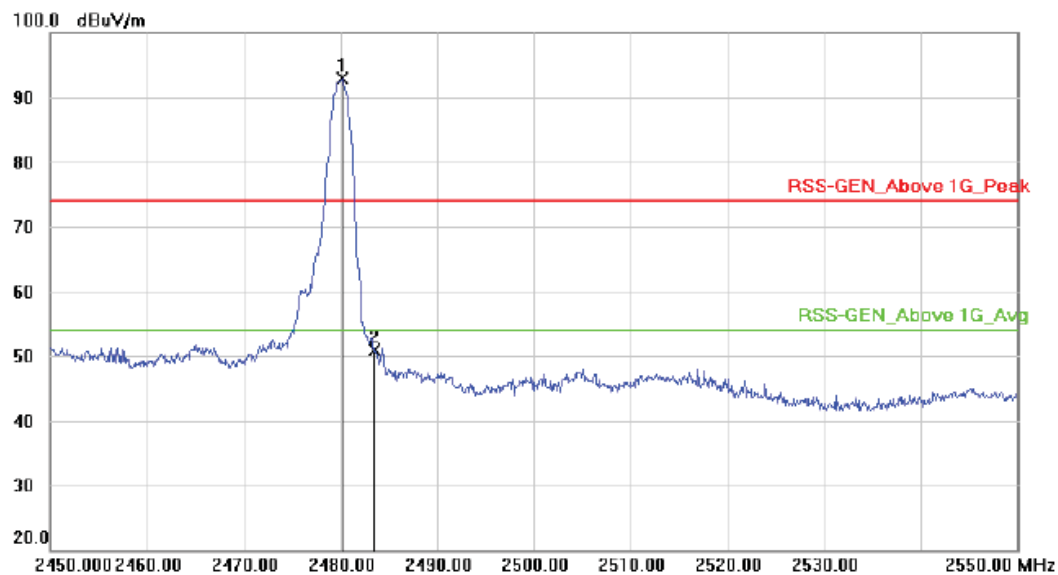
Test Mode:

GFSK-High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2480.200	89.40	-3.38	86.02	74.00	12.02	peak		
2		2483.500	48.86	-3.38	45.48	74.00	-28.52	peak		

Polarization: Horizontal



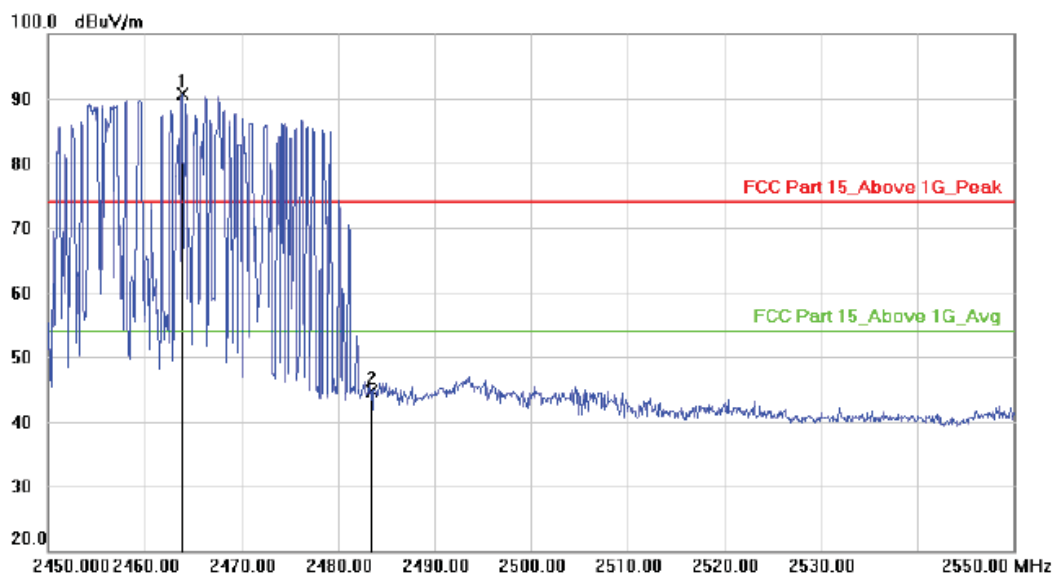
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2480.200	96.25	-3.38	92.87	74.00	18.87	peak		
2		2483.500	54.32	-3.38	50.94	74.00	-23.06	peak		

Hopping-on

Polarization: Vertical

Test Mode:

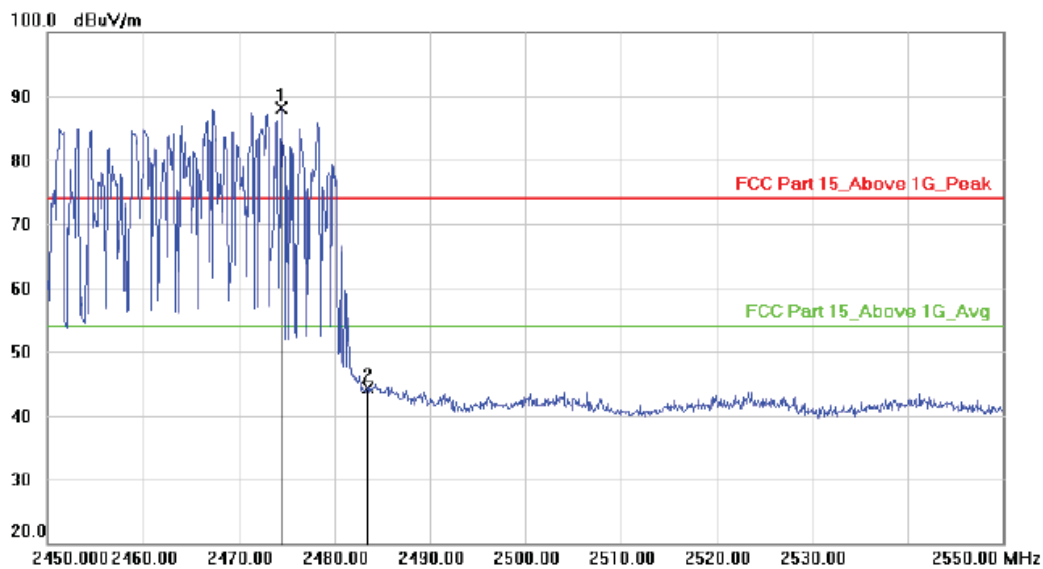
GFSK-High



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2463.900	94.19	-3.40	90.79	74.00	16.79	peak		
2		2483.500	48.17	-3.38	44.79	74.00	-29.21	peak		

Polarization: Horizontal

Test Mode:

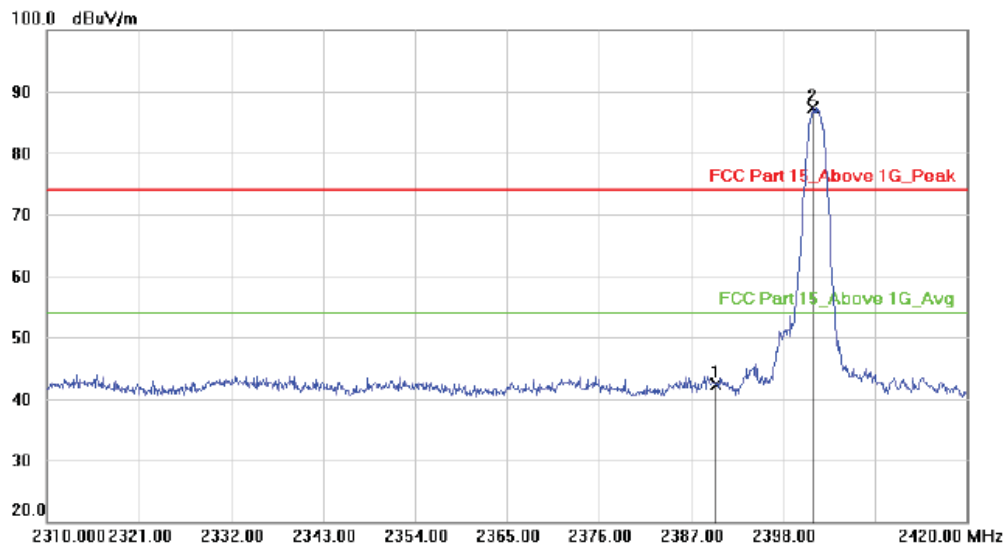


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2474.400	91.49	-3.39	88.10	74.00	14.10	peak		
2		2483.500	47.76	-3.38	44.38	74.00	-29.62	peak		

hopping-on

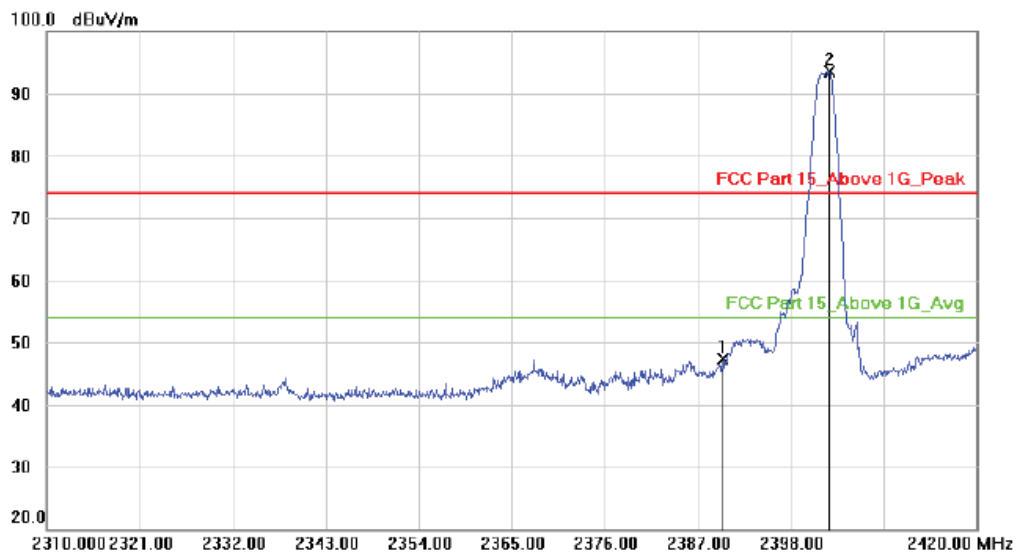
Hopping-off

Polarization: Vertical

Test Mode: $\pi/4$ -DQPSK-Low

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2390.000	45.61	-3.40	42.21	74.00	-31.79	peak		
2	*	2401.630	90.74	-3.41	87.33	74.00	13.33	peak		

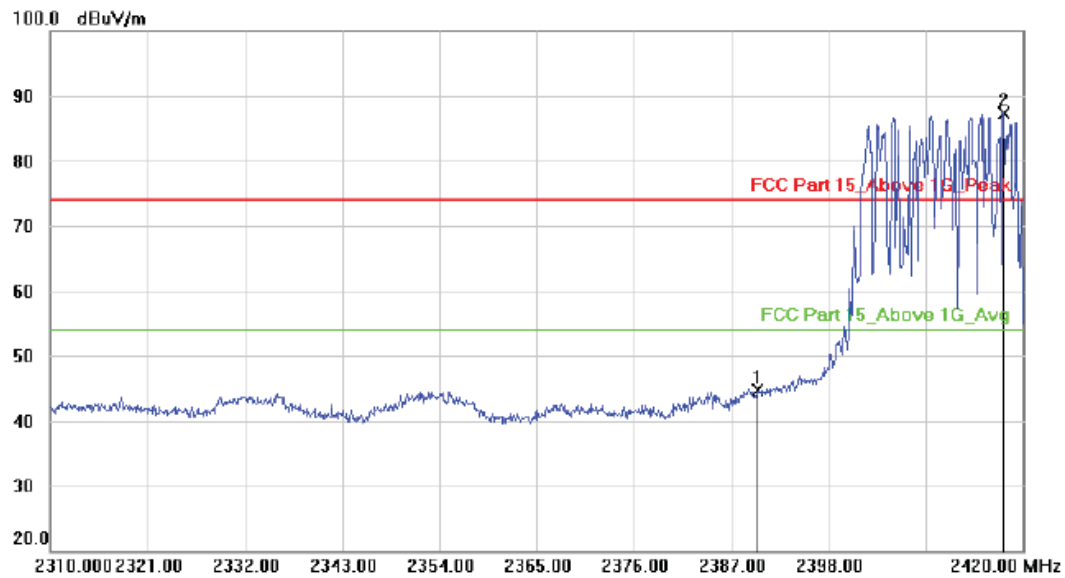
Polarization: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2390.000	50.68	-3.40	47.28	74.00	-26.72	peak		
2	*	2402.620	96.99	-3.41	93.58	74.00	19.58	peak		

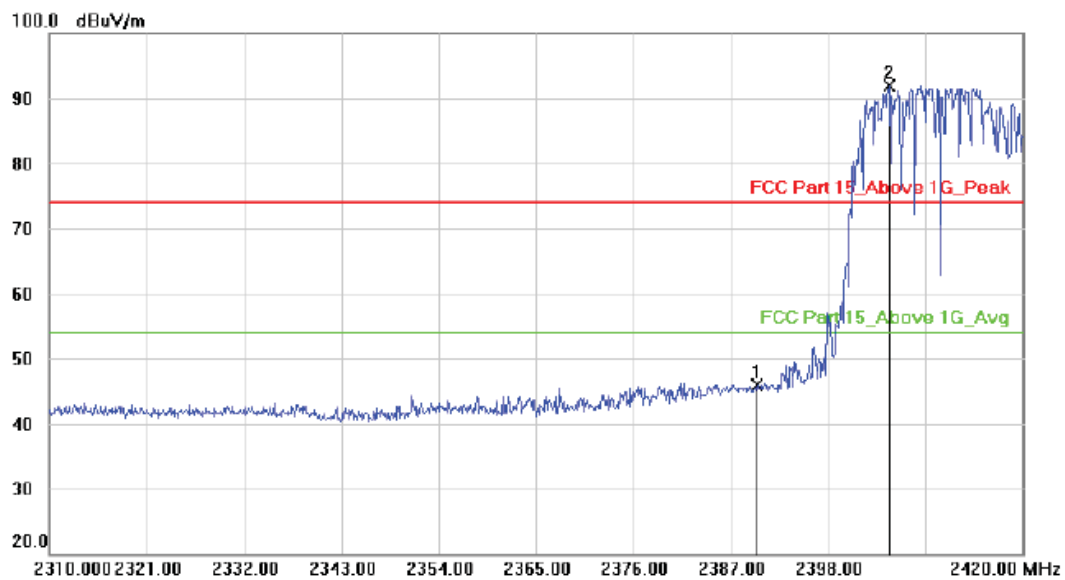
Hopping-on

Polarization: Vertical

Test Mode: $\pi/4$ -DQPSK-Low

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	2390.000	48.07	-3.40	44.67	74.00	-29.33	peak		
2 *	2417.800	90.78	-3.41	87.37	74.00	13.37	peak		

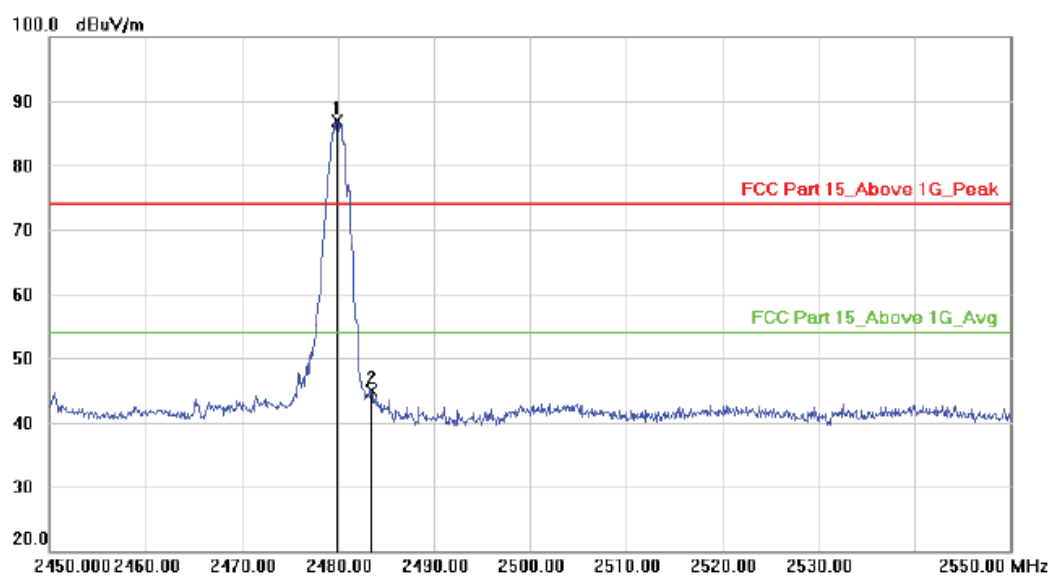
Polarization: Horizontal



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	2390.000	49.29	-3.40	45.89	74.00	-28.11	peak		
2 *	2404.930	95.26	-3.41	91.85	74.00	17.85	peak		

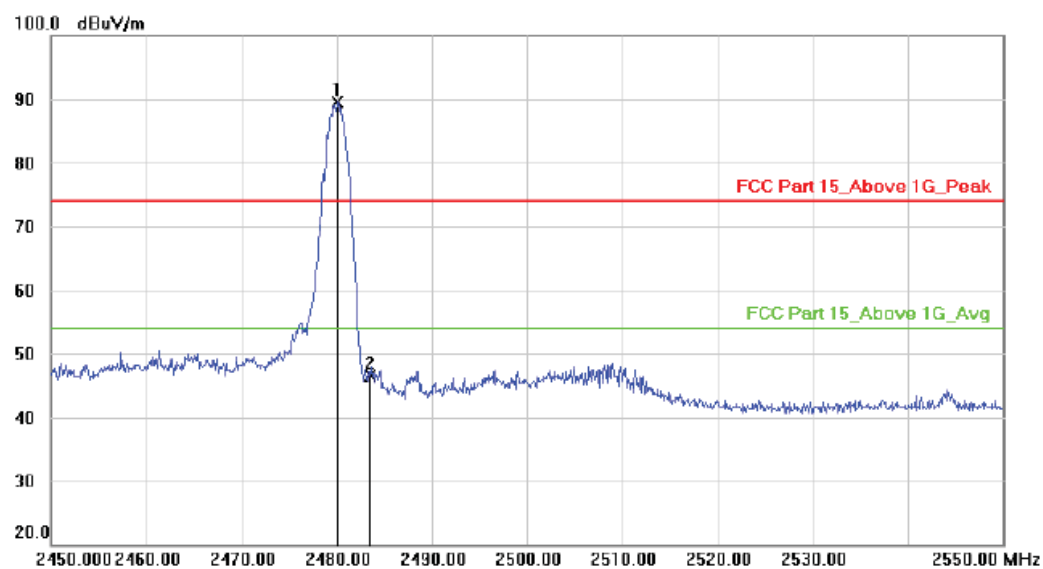
Hopping-off

Polarization: Vertical

Test Mode: $\pi/4$ -DQPSK-High

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2479.900	90.19	-3.38	86.81	74.00	12.81	peak		
2		2483.500	48.21	-3.38	44.83	74.00	-29.17	peak		

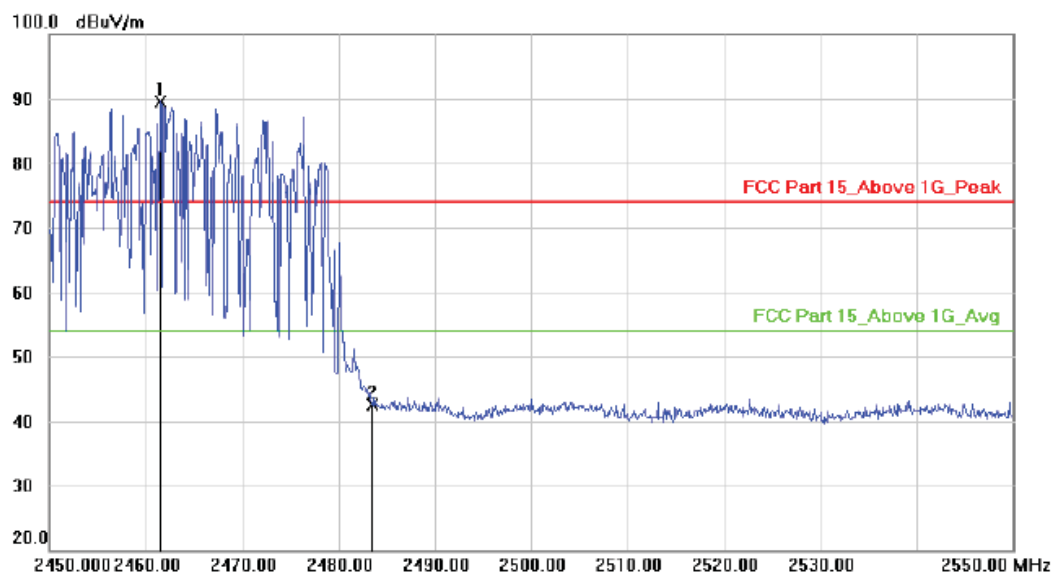
Polarization: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2480.000	92.82	-3.38	89.44	74.00	15.44	peak		
2		2483.500	49.86	-3.38	46.48	74.00	-27.52	peak		

Hopping-on

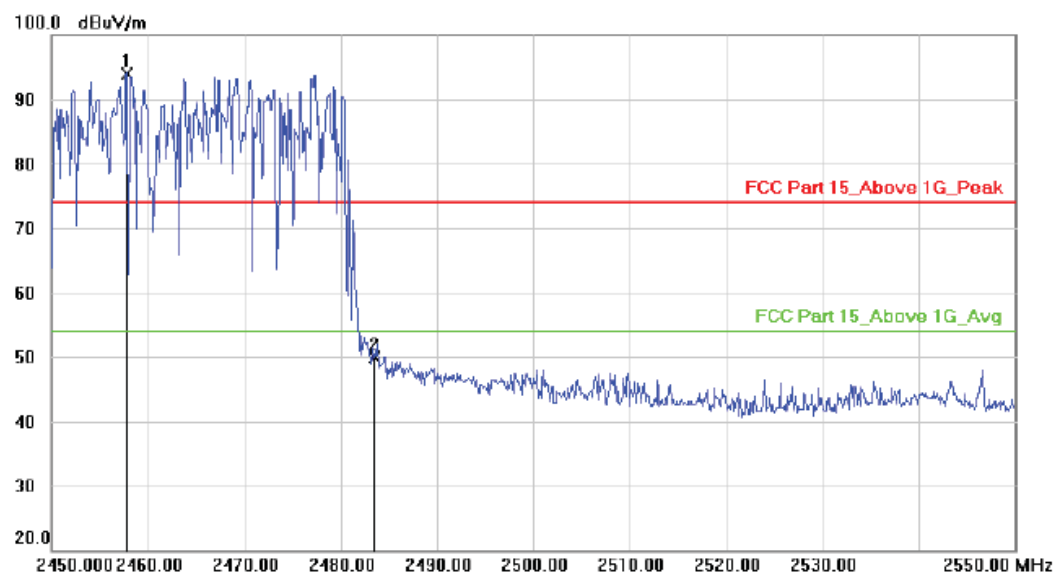
Polarization: Vertical

Test Mode: $\pi/4$ -DQPSK-High

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2461.500	92.98	-3.39	89.59	74.00	15.59	peak		
2		2483.500	45.92	-3.38	42.54	74.00	-31.46	peak		

Polarization: Horizontal

Test Mode:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2457.800	97.39	-3.39	94.00	74.00	20.00	peak		
2		2483.500	53.24	-3.38	49.86	74.00	-24.14	peak		

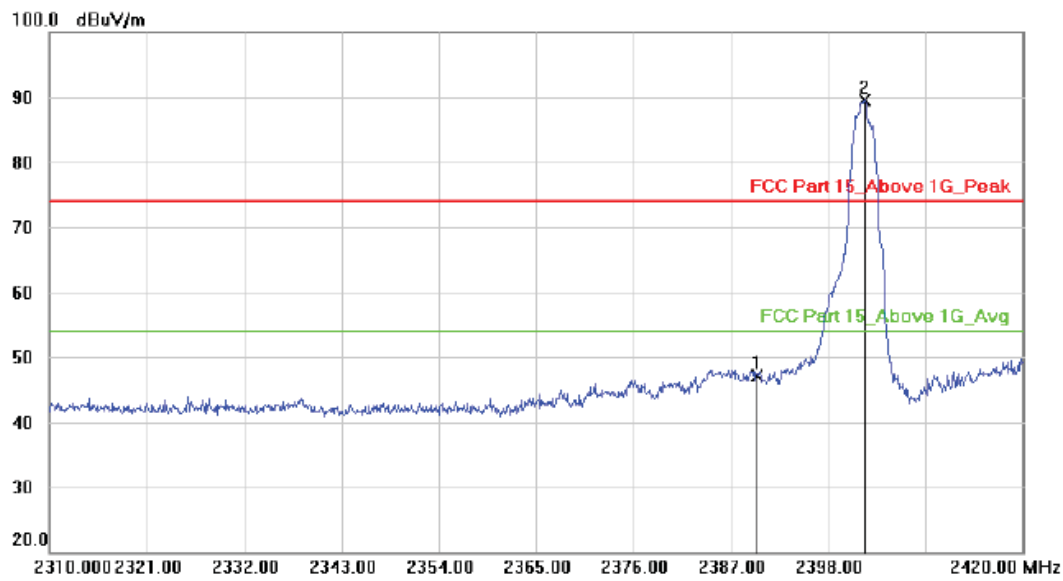
hopping-on

Hopping-off

Polarization: Vertical

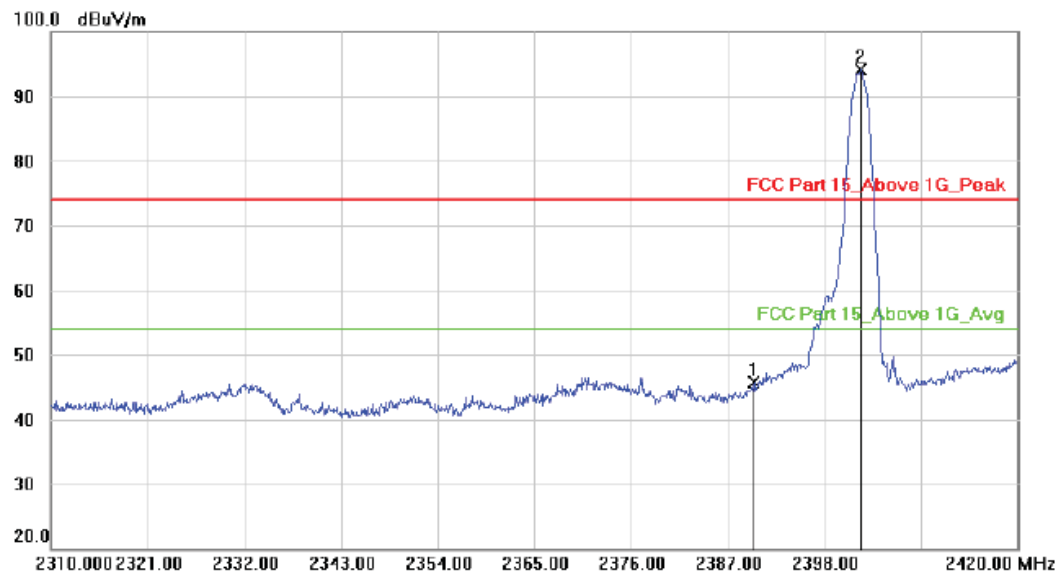
Test Mode:

8-DPSK-Low



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2390.000	50.51	-3.40	47.11	74.00	-26.89	peak		
2	*	2402.180	93.01	-3.41	89.60	74.00	15.60	peak		

Polarization: Horizontal



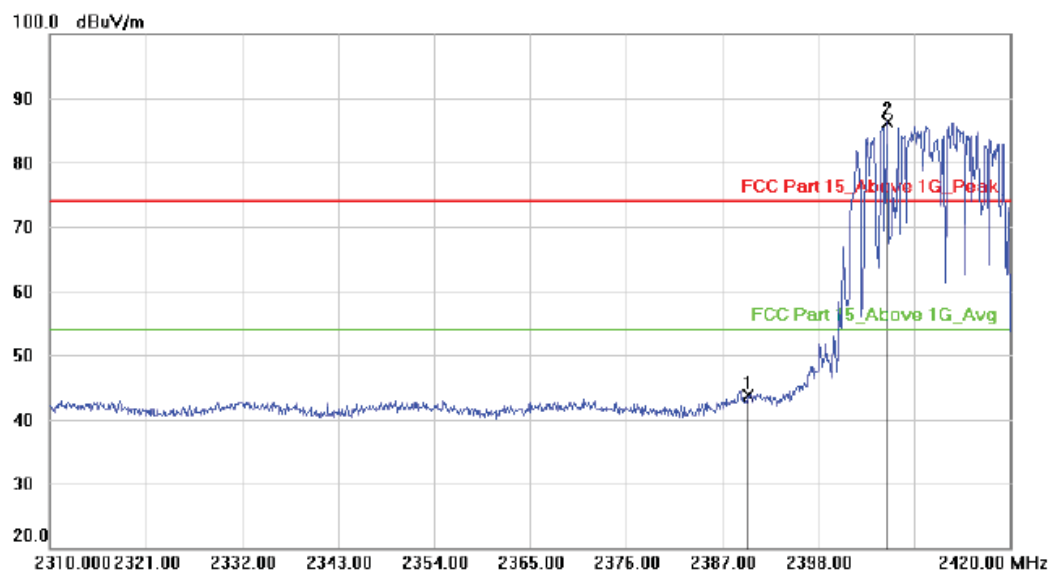
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2390.000	49.18	-3.40	45.78	74.00	-28.22	peak		
2	*	2402.180	97.42	-3.41	94.01	74.00	20.01	peak		

Hopping-on

Polarization: Vertical

Test Mode:

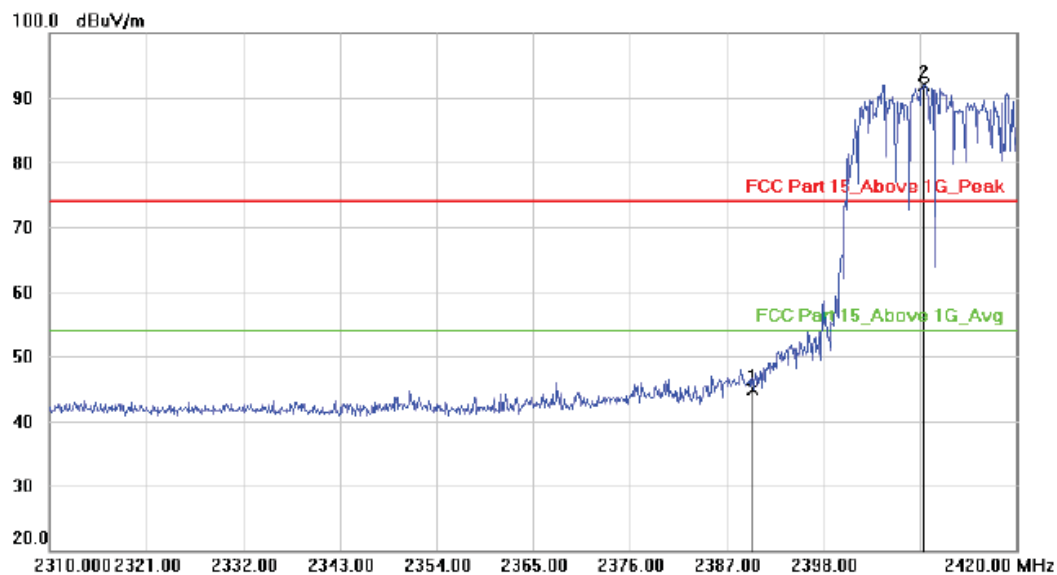
8-DPSK -Low



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	2390.000	47.07	-3.40	43.67	74.00	-30.33	peak		
2 *	2406.030	89.66	-3.41	86.25	74.00	12.25	peak		

Polarization: Horizontal

Test Mode:



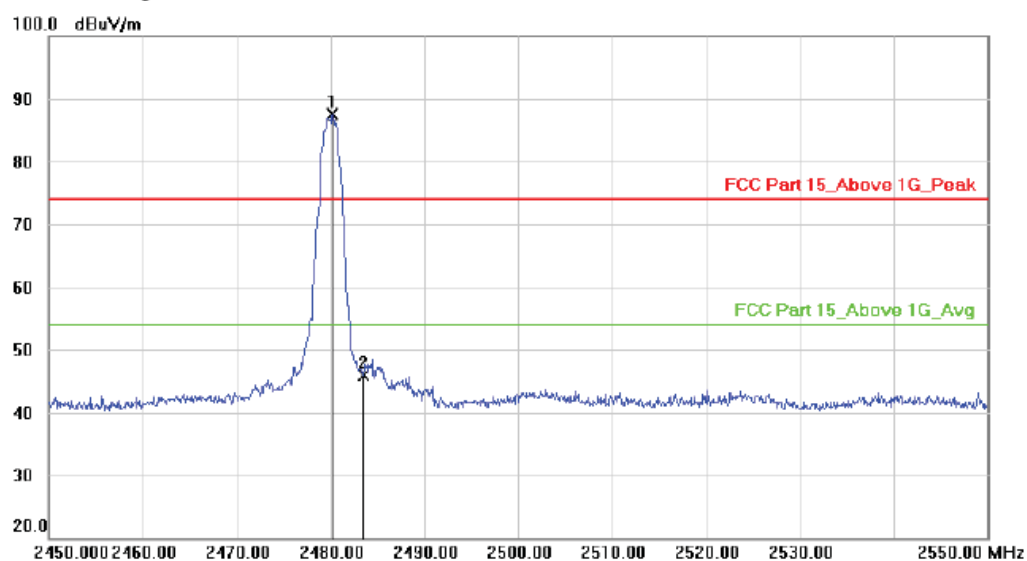
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	2390.000	48.29	-3.40	44.89	74.00	-29.11	peak		
2 *	2409.440	95.39	-3.40	91.99	74.00	17.99	peak		

hopping-on

Hopping-off

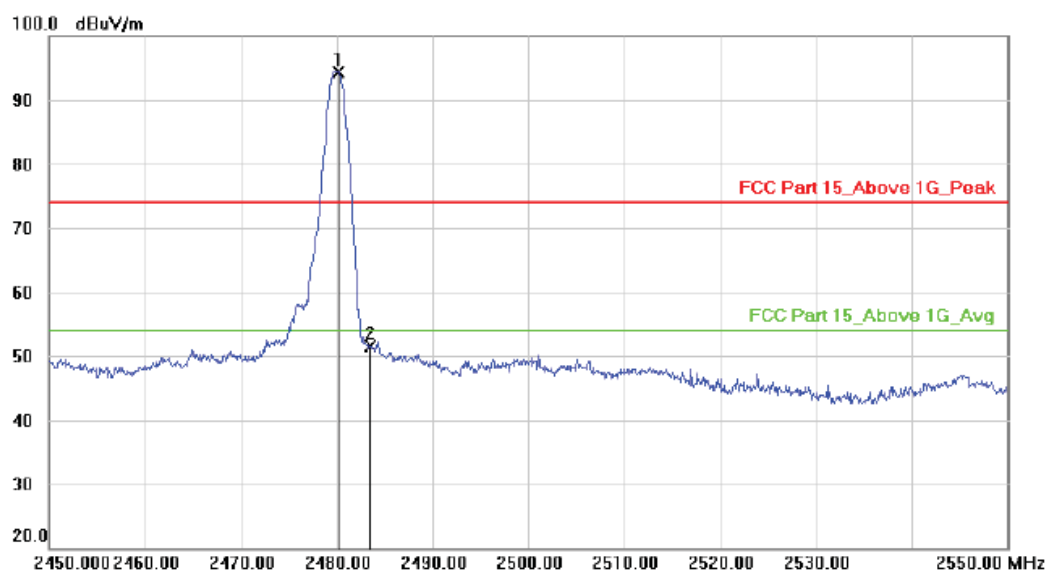
Polarization: Vertical

Test Mode: 8-DPSK-High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2480.200	90.90	-3.38	87.52	74.00	13.52	peak		
2		2483.500	49.36	-3.38	45.98	74.00	-28.02	peak		

Polarization: Horizontal



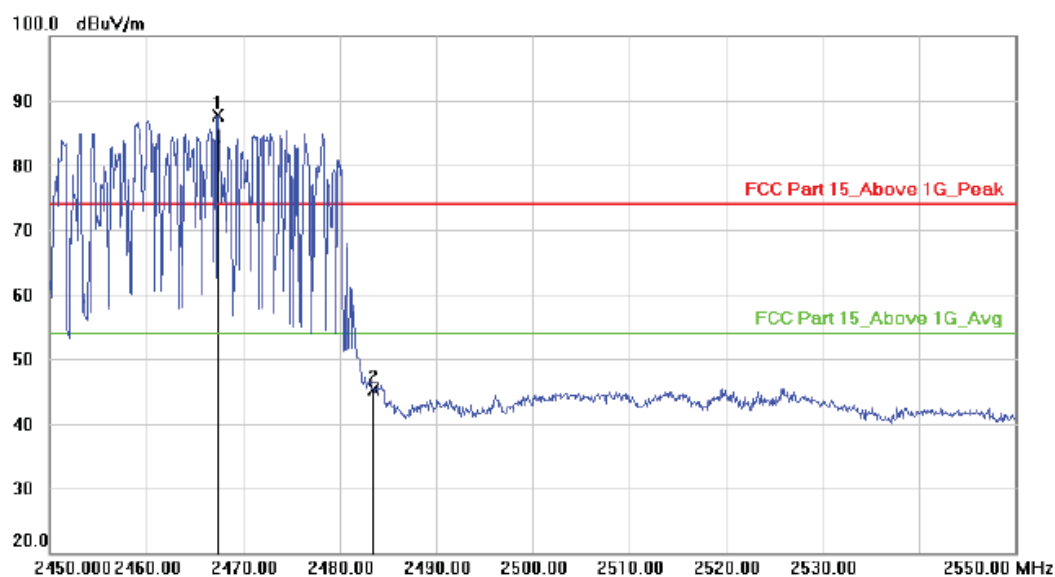
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2480.200	97.75	-3.38	94.37	74.00	20.37	peak		
2		2483.500	54.82	-3.38	51.44	74.00	-22.56	peak		

Hopping-on

Polarization: Vertical

Test Mode:

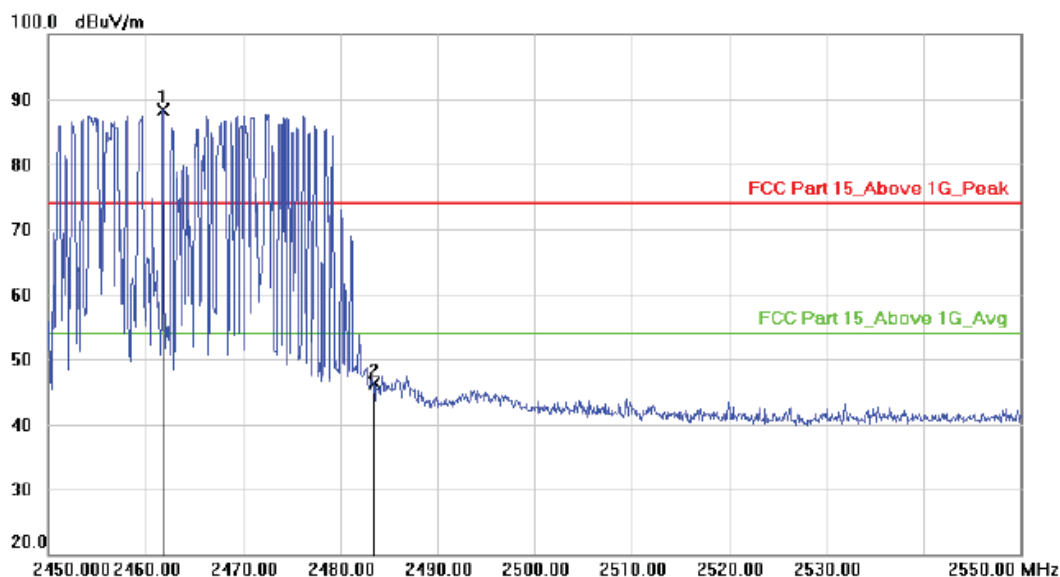
8-DPSK -High



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2467.400	91.09	-3.39	87.70	74.00	13.70	peak		
2		2483.500	48.76	-3.38	45.38	74.00	-28.62	peak		

Polarization: Horizontal

Test Mode:

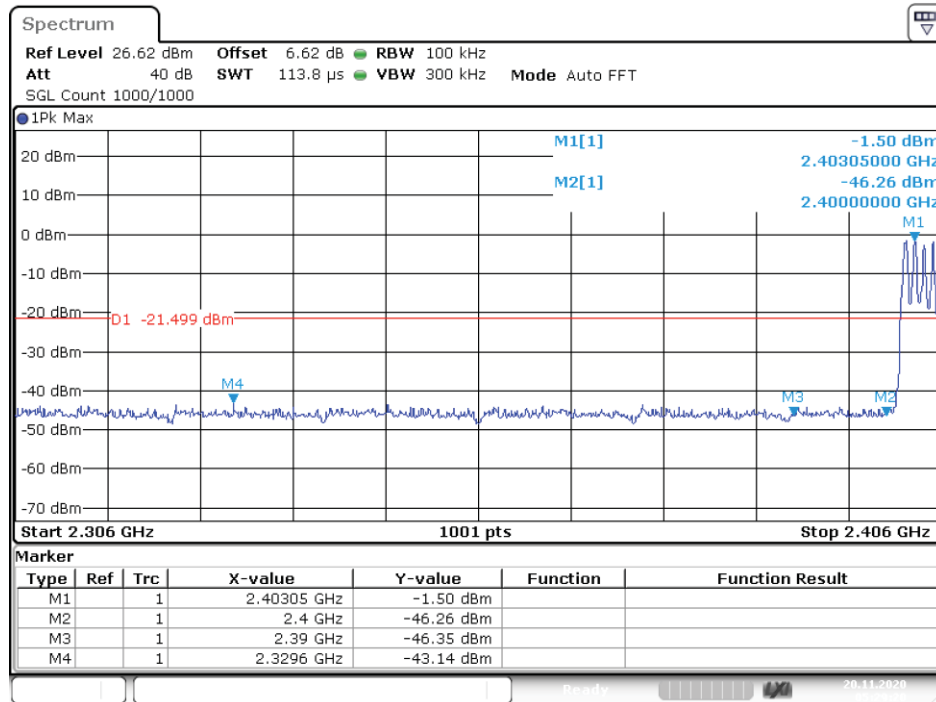


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2461.800	91.79	-3.40	88.39	74.00	14.39	peak		
2		2483.500	49.67	-3.38	46.29	74.00	-27.71	peak		

hopping-on

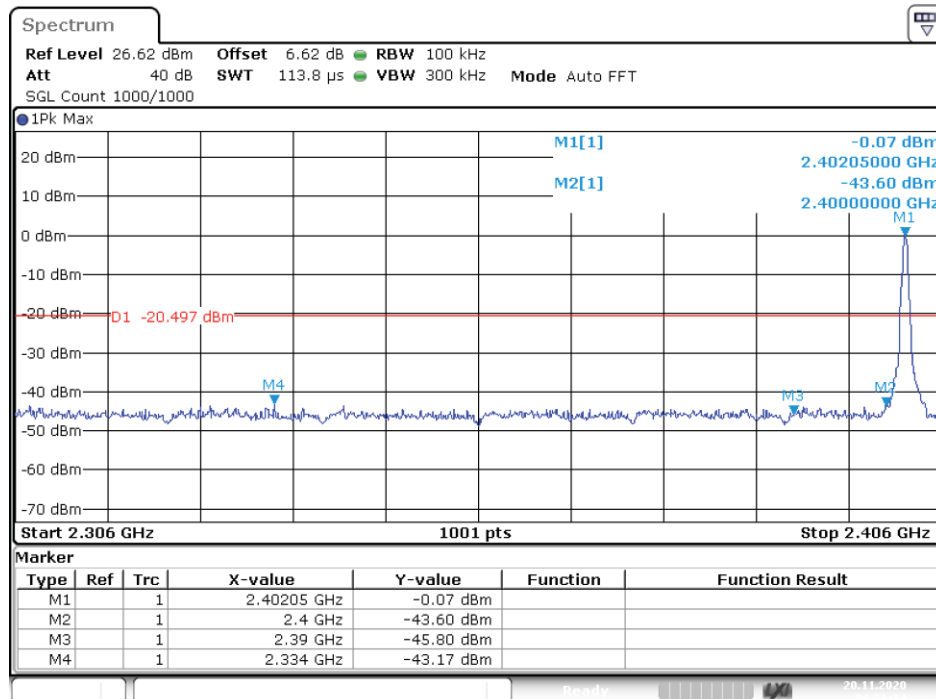
Conducted Method

Band Edge NVNT 1-DH1 2402MHz Ant1 Hopping Emission



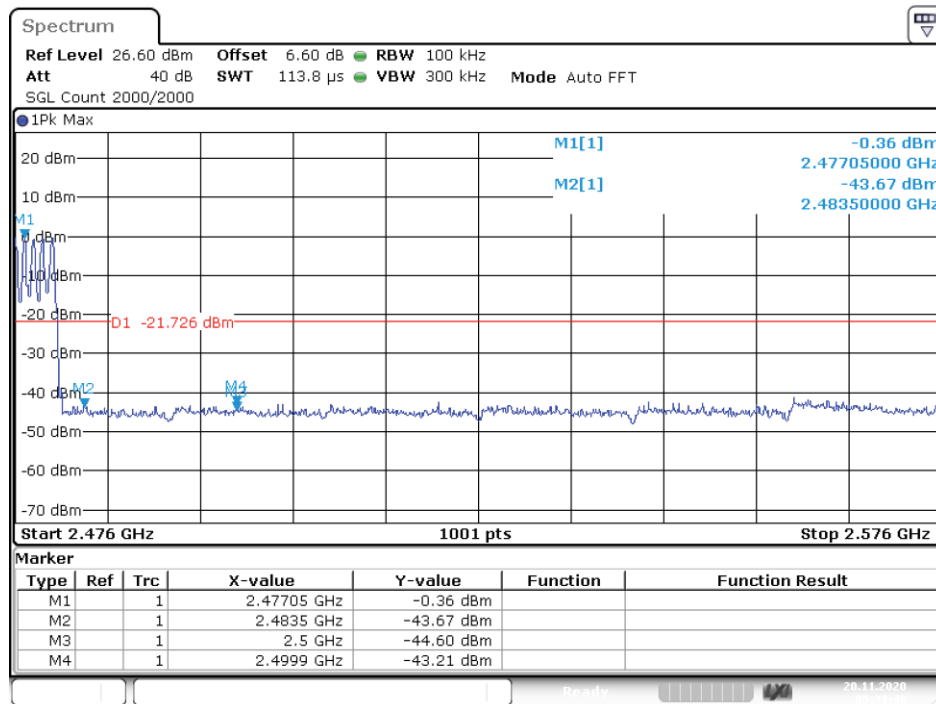
Date: 20.NOV.2020 05:29:20

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



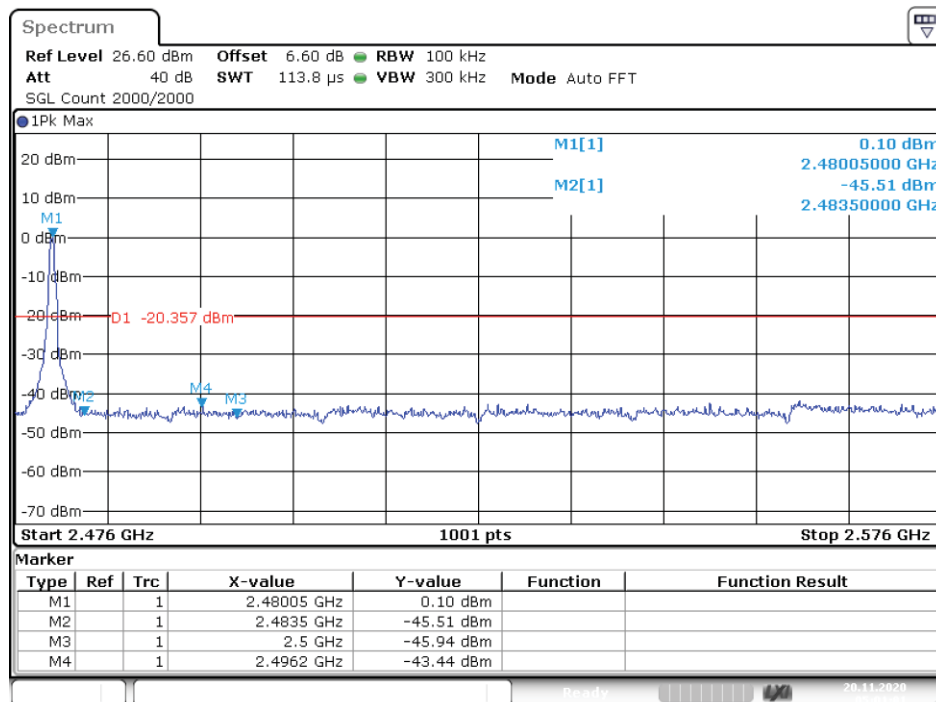
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Band Edge NVNT 1-DH1 2480MHz Ant1 Hopping Emission



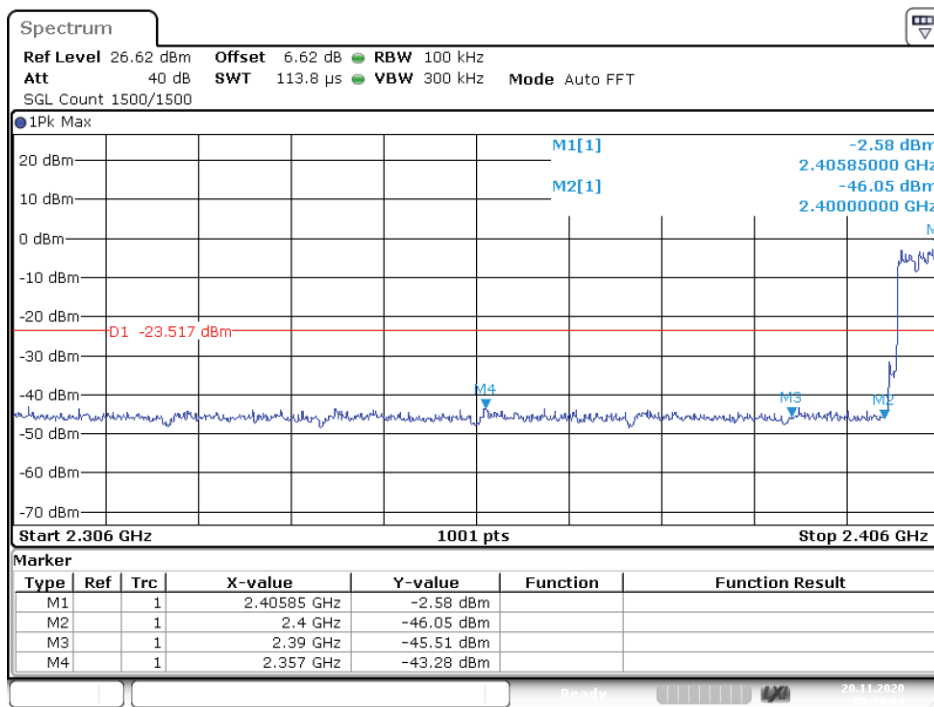
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Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



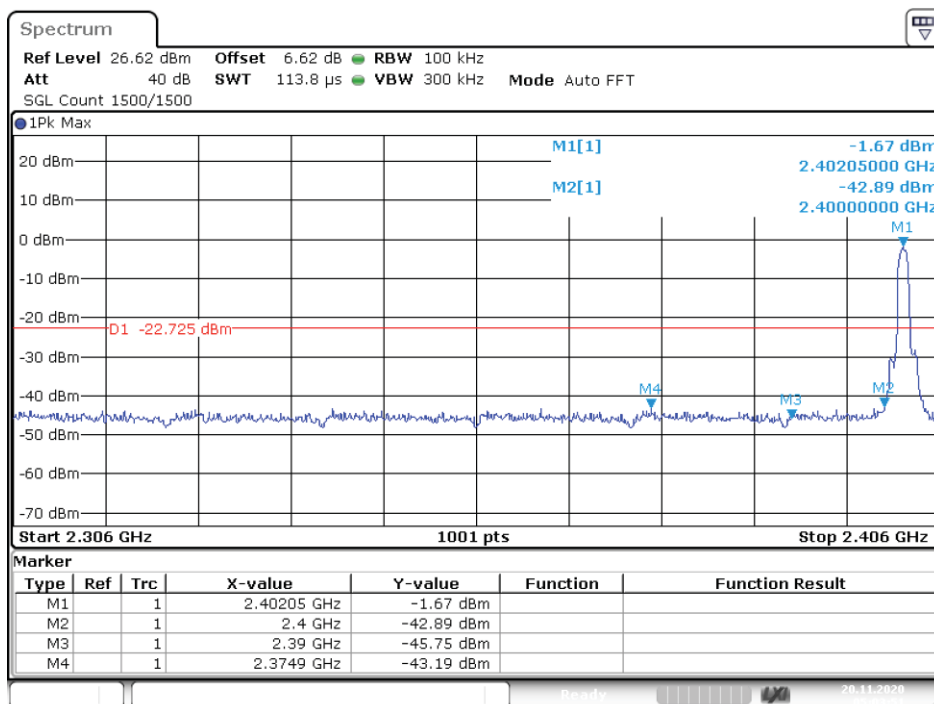
Date: 20.NOV.2020 05:01:01

Band Edge NVNT 2-DH1 2402MHz Ant1 Hopping Emission



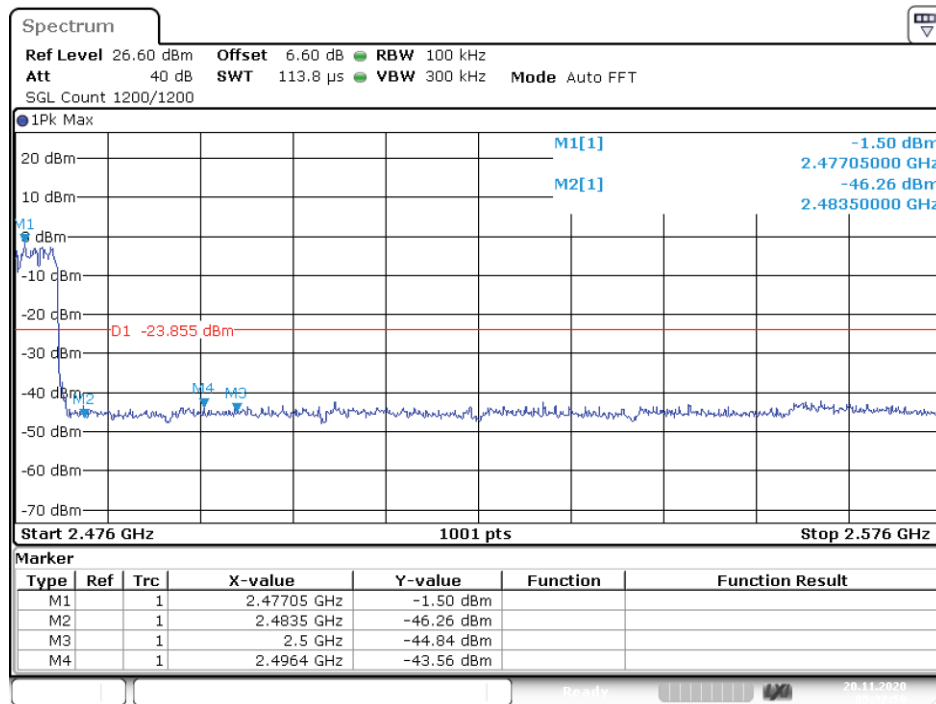
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Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



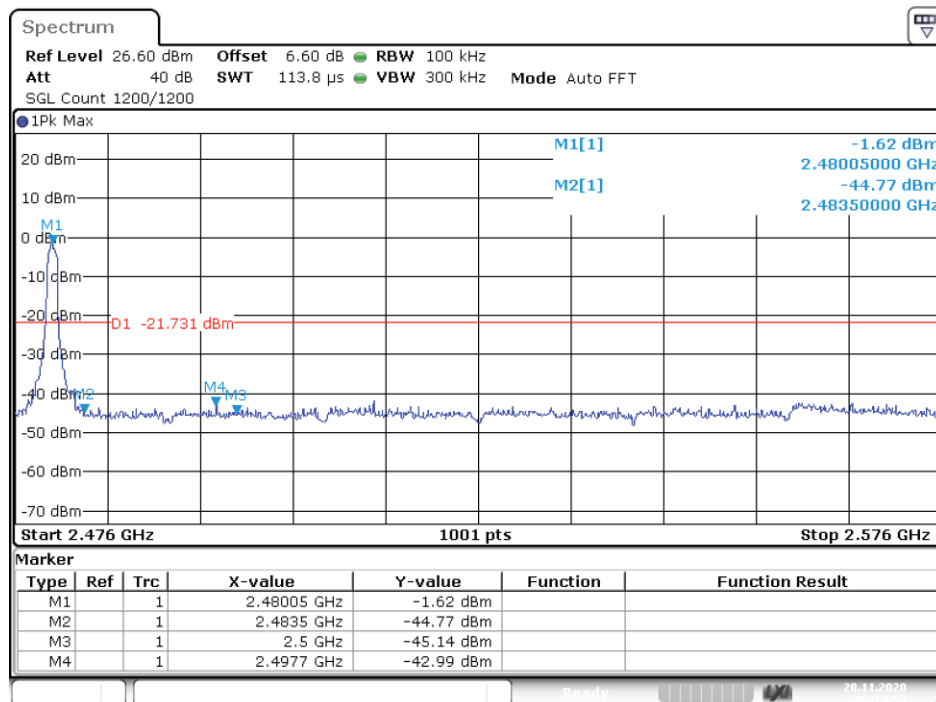
Date: 20.NOV.2020 05:03:50

Band Edge NVNT 2-DH1 2480MHz Ant1 Hopping Emission



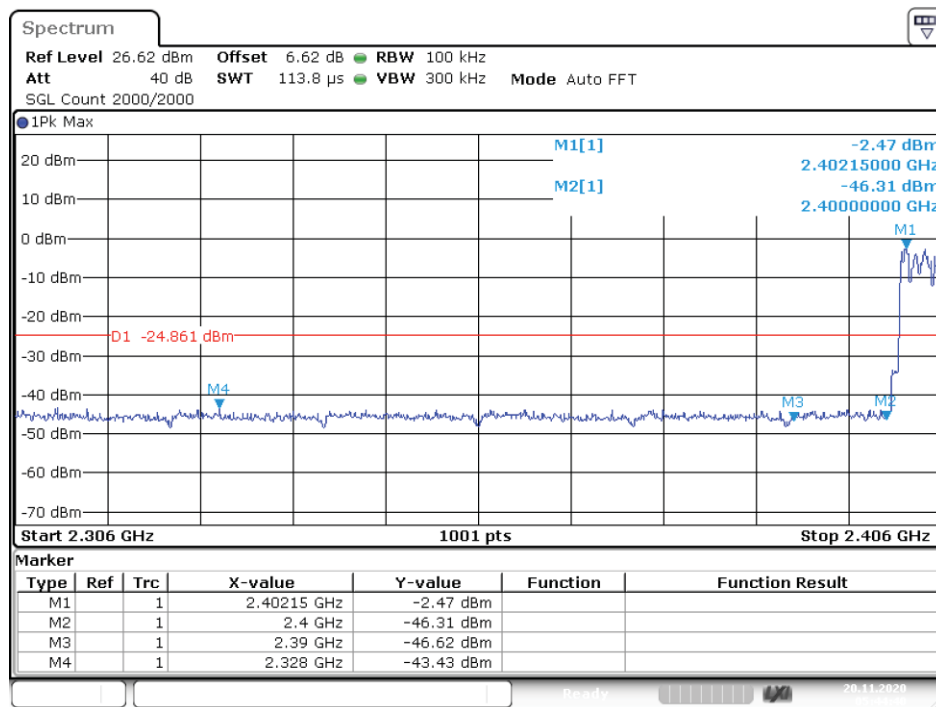
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Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



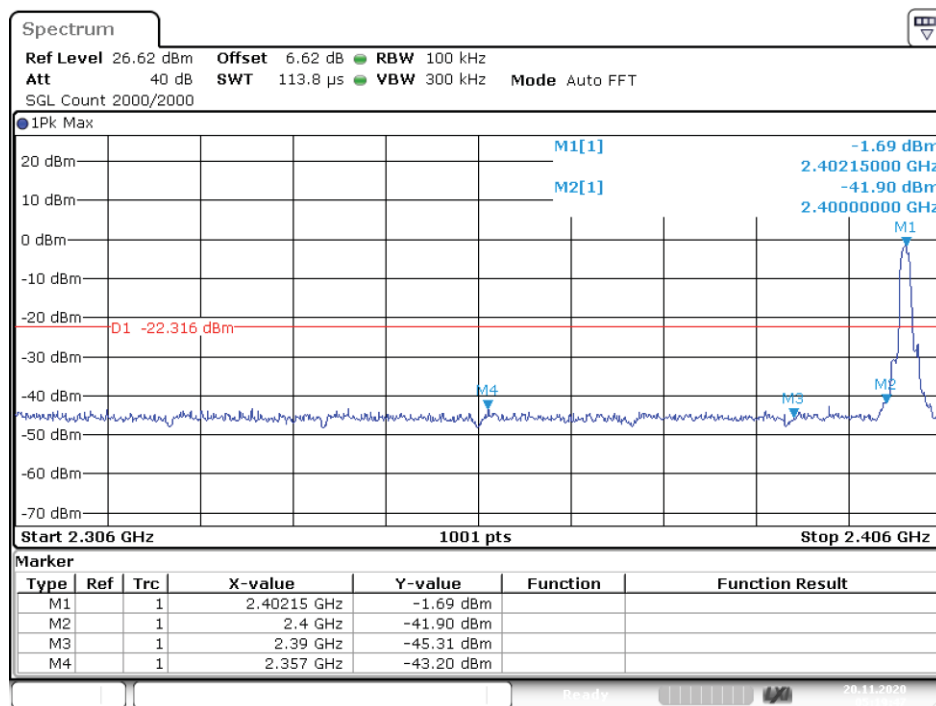
Date: 20.NOV.2020 05:14:53

Band Edge NVNT 3-DH1 2402MHz Ant1 Hopping Emission



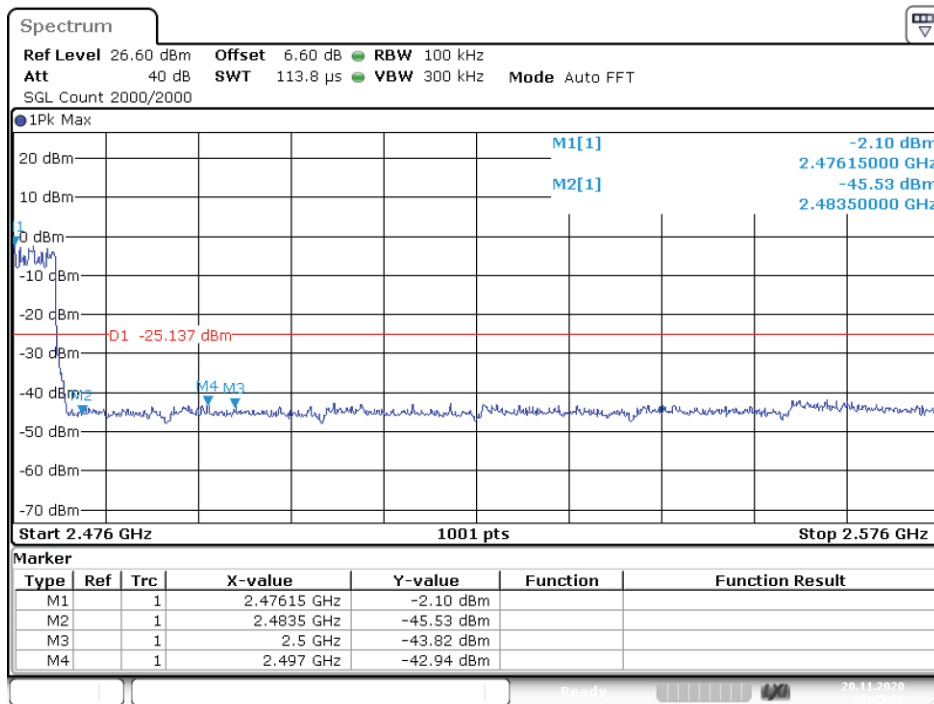
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Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



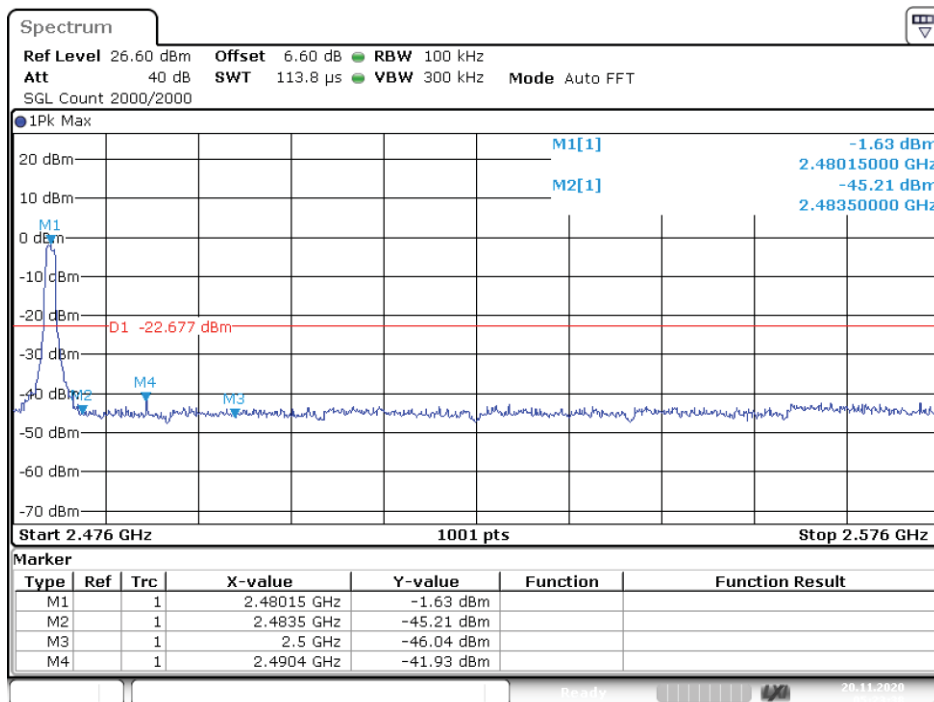
Date: 20.NOV.2020 05:19:47

Band Edge NVNT 3-DH1 2480MHz Ant1 Hopping Emission



Date: 20.NOV.2020 05:45:56

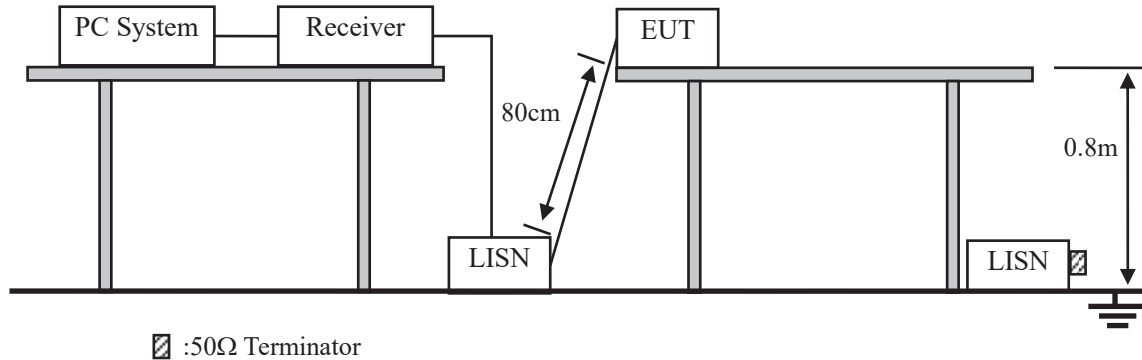
Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission



Date: 20.NOV.2020 05:23:38

10. Power Line Conducted Emissions

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

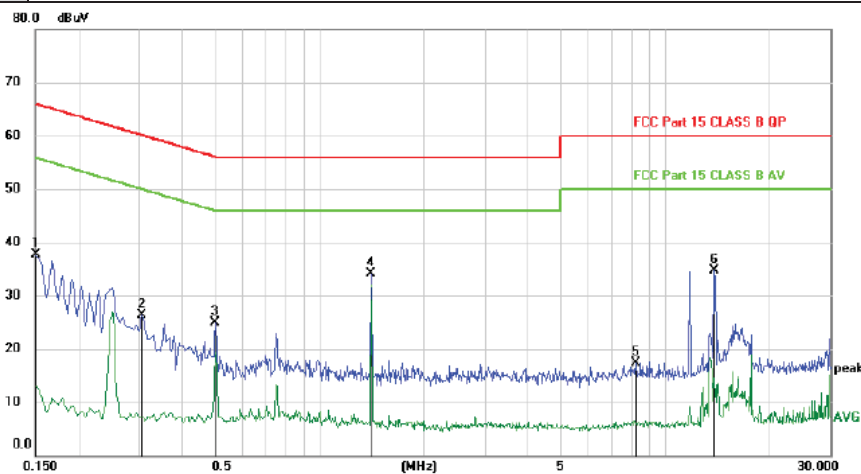
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

PASS. (See below detailed test data)

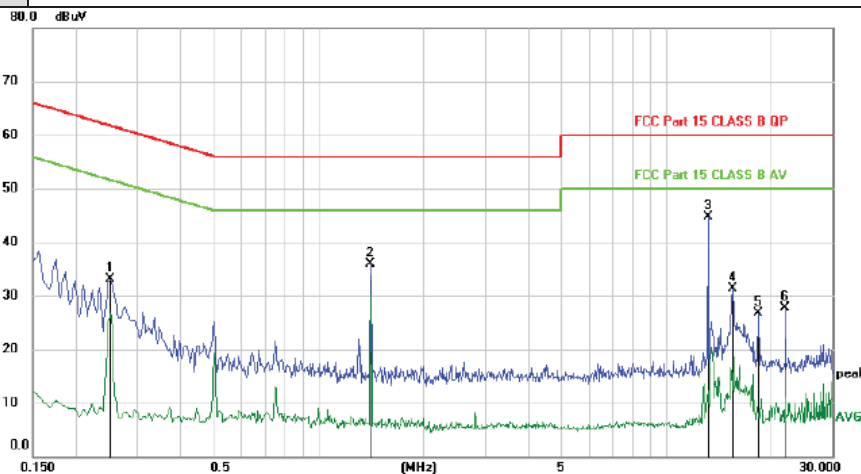
Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

Pol	Line
-----	------



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	27.76	9.94	37.70	66.00	-28.30	peak	
2		0.3060	16.46	9.92	26.38	60.08	-33.70	peak	
3		0.4980	14.95	9.96	24.91	56.03	-31.12	peak	
4	*	1.4100	24.20	9.90	34.10	56.00	-21.90	peak	
5		8.2080	7.21	10.16	17.37	60.00	-42.63	peak	
6		13.9080	24.43	10.30	34.73	60.00	-25.27	peak	

Pol	Neutral
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2519	23.19	9.97	33.16	61.69	-28.53	peak	
2		1.4100	26.07	9.90	35.97	56.00	-20.03	peak	
3	*	13.1580	34.46	10.29	44.75	60.00	-15.25	peak	
4		15.5520	20.94	10.35	31.29	60.00	-28.71	peak	
5		18.3660	16.23	10.42	26.65	60.00	-33.35	peak	
6		22.0320	17.26	10.46	27.72	60.00	-32.28	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data of GFSK was listed in this report.

11. Antenna Requirements

11.1. Limit

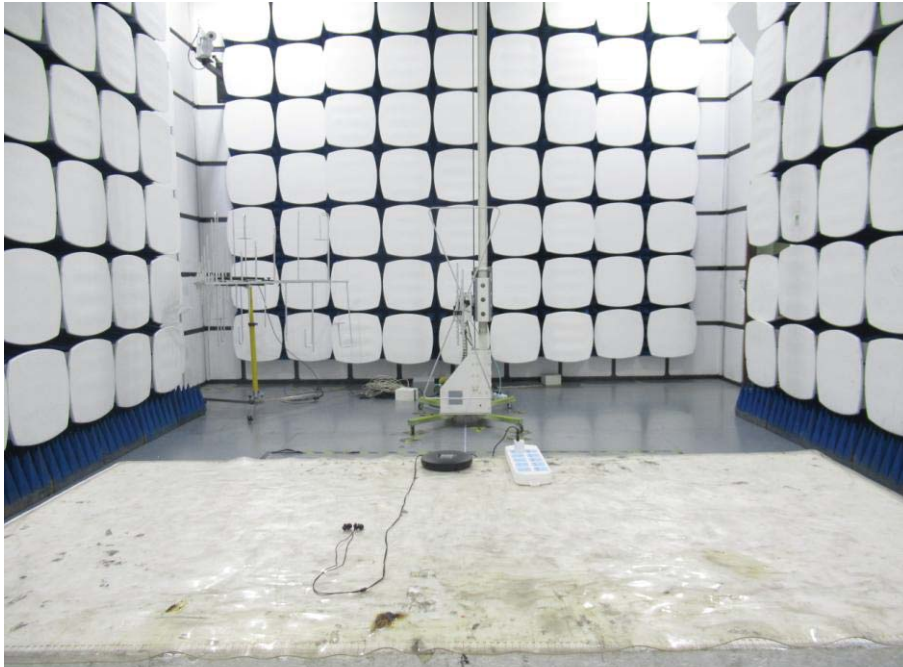
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

The EUT antenna is PCB antenna. It complies with the standard requirement.

12. Test Setup Photo

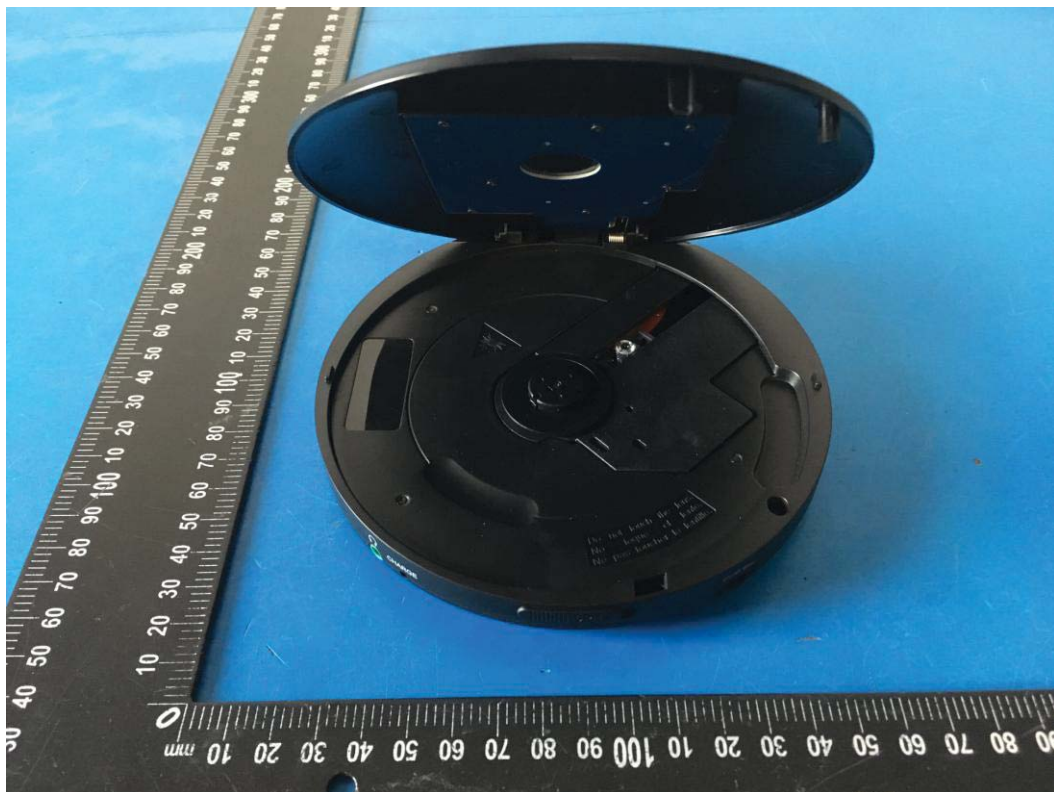
12.1. Photos of Radiated emission



12.2.Photos of Power Line Conducted Emission Test

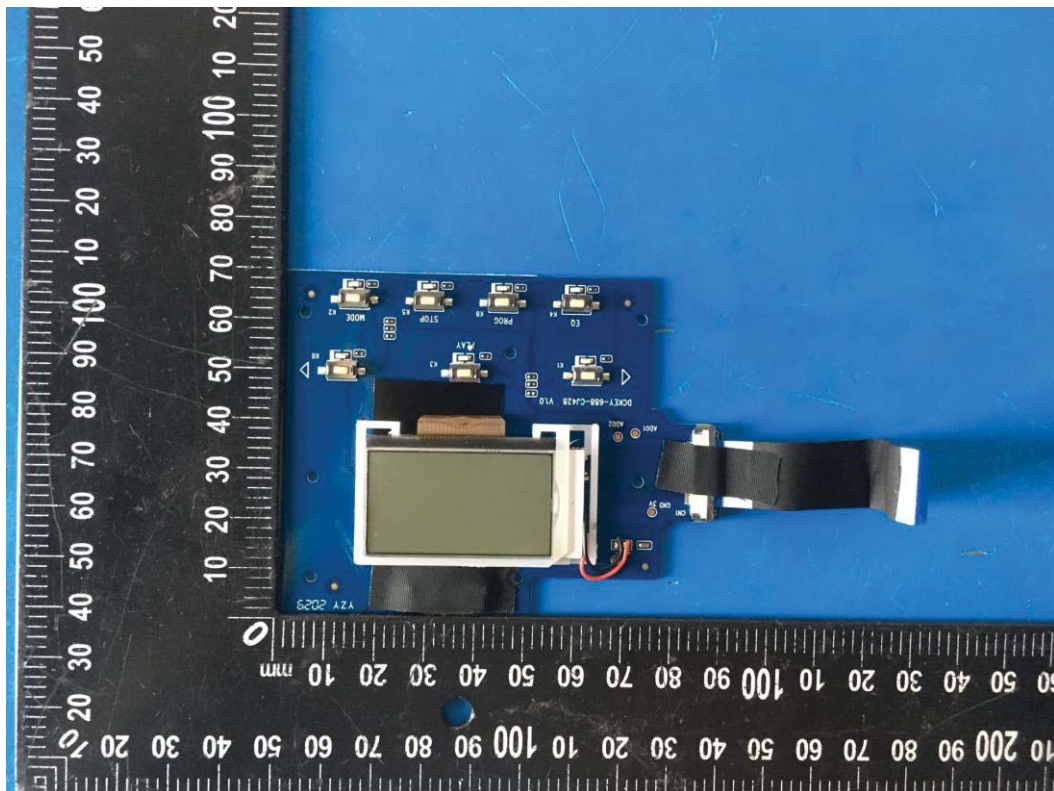
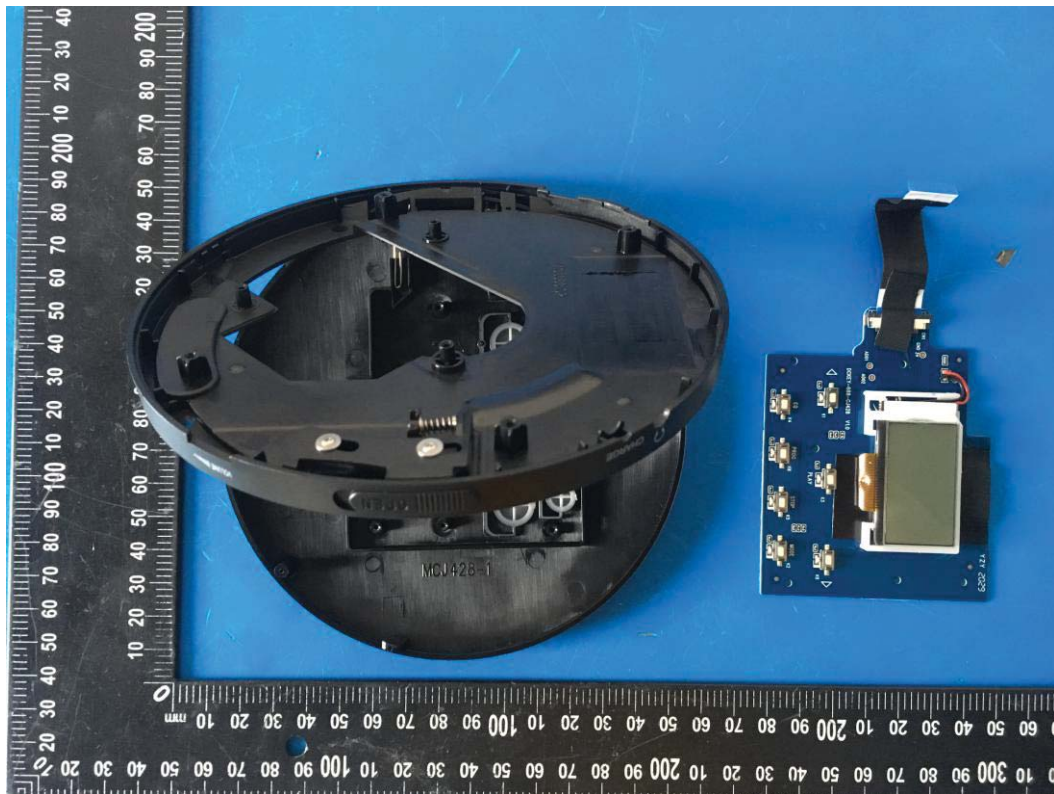


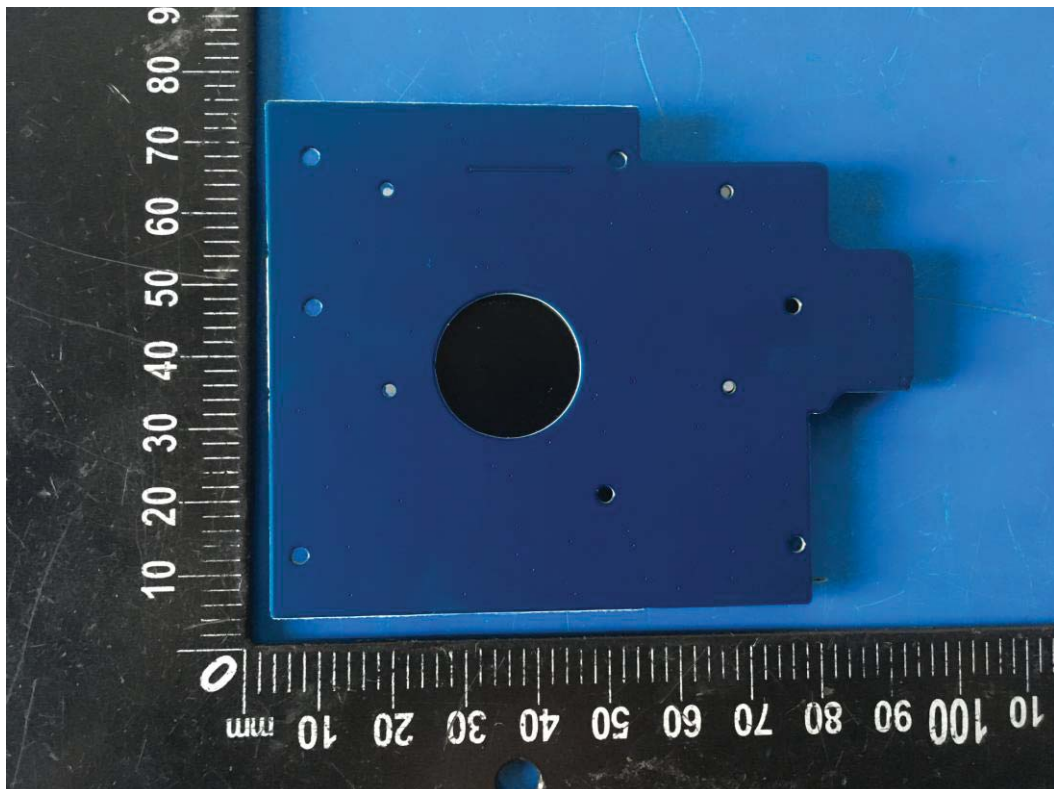
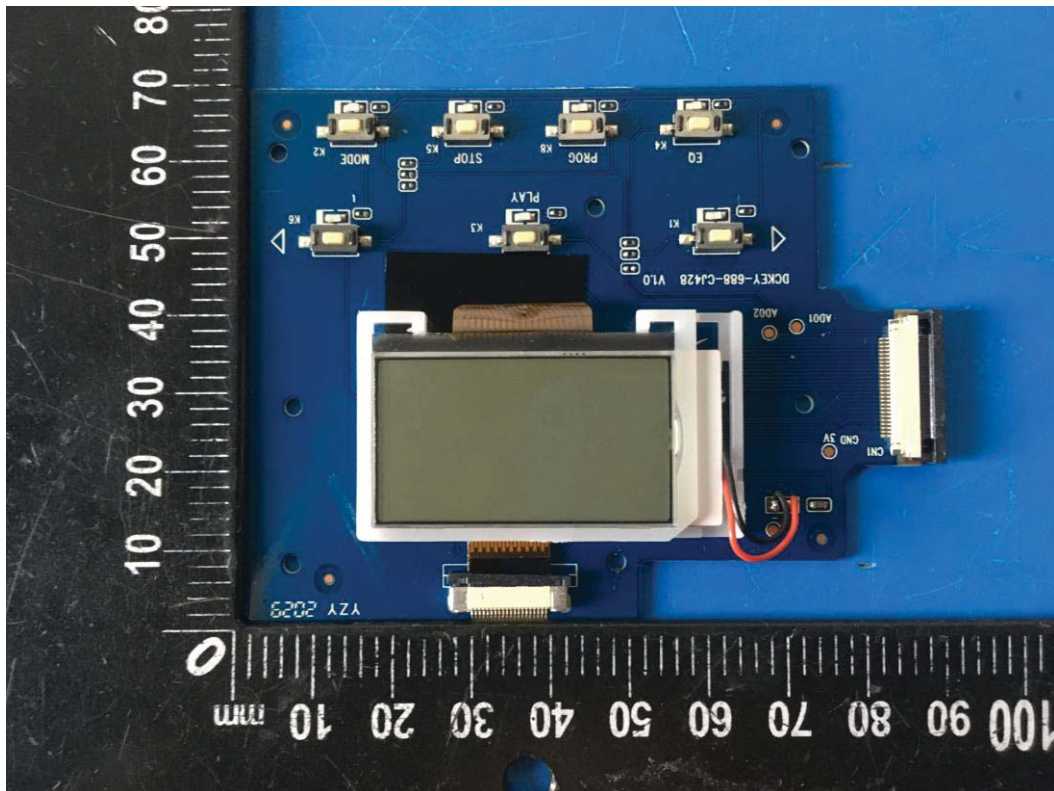
13. Photos of EUT

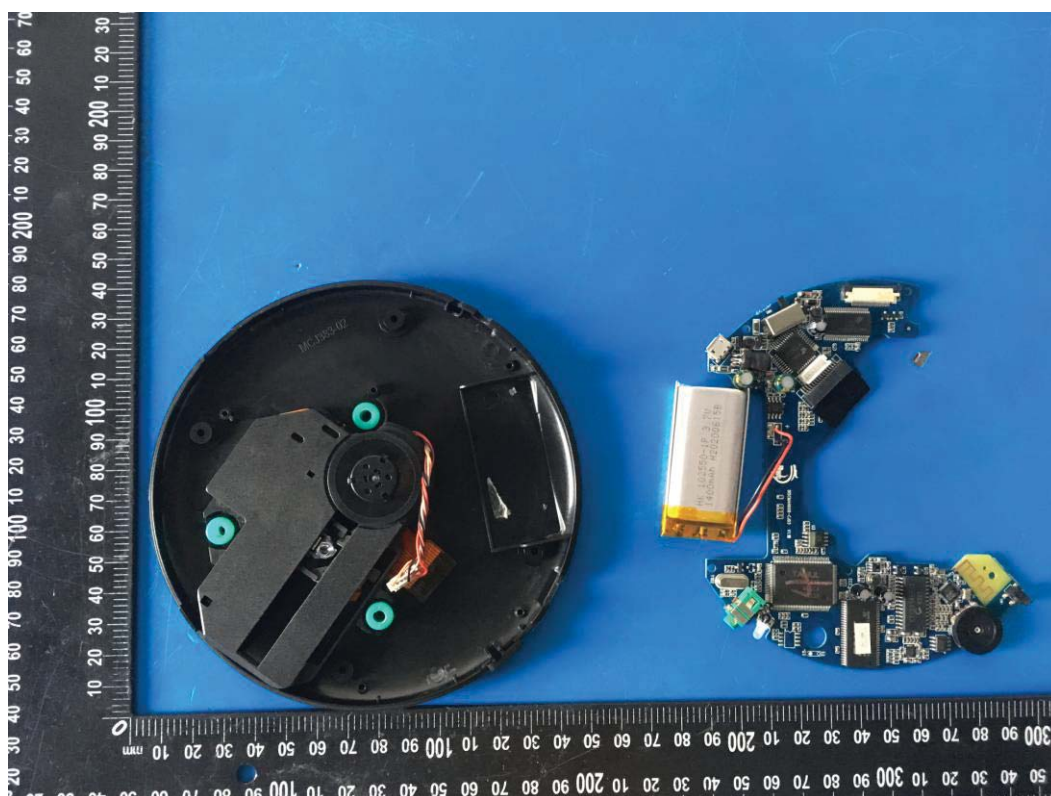
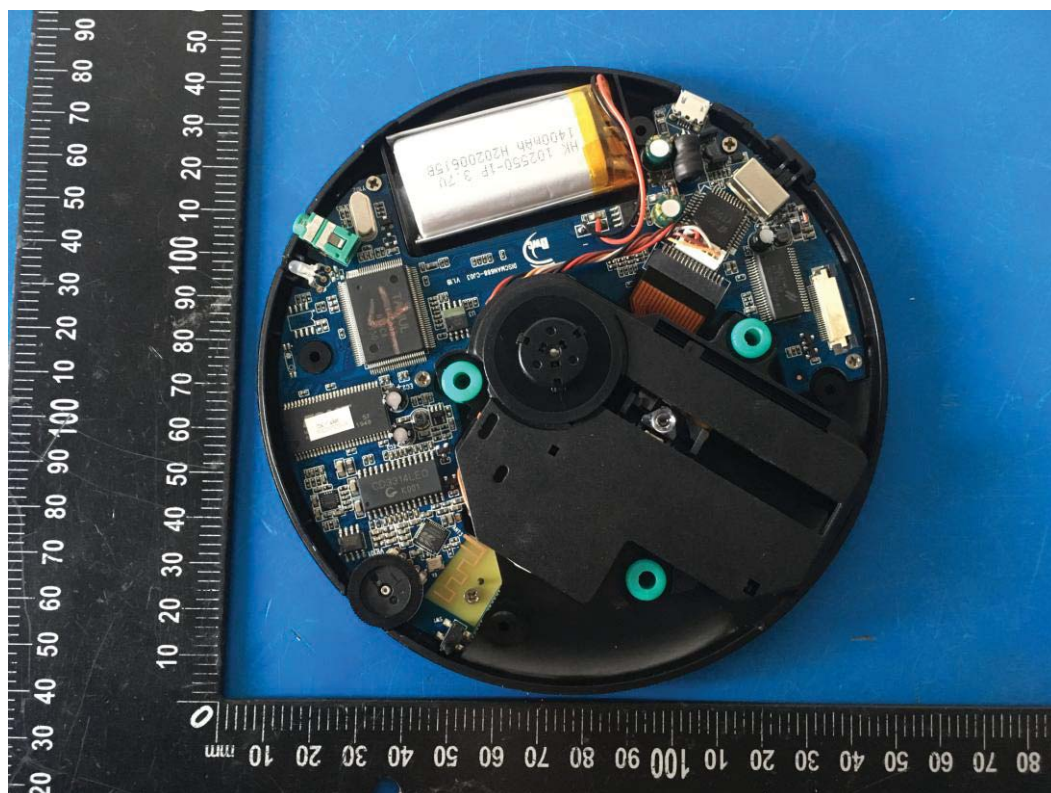


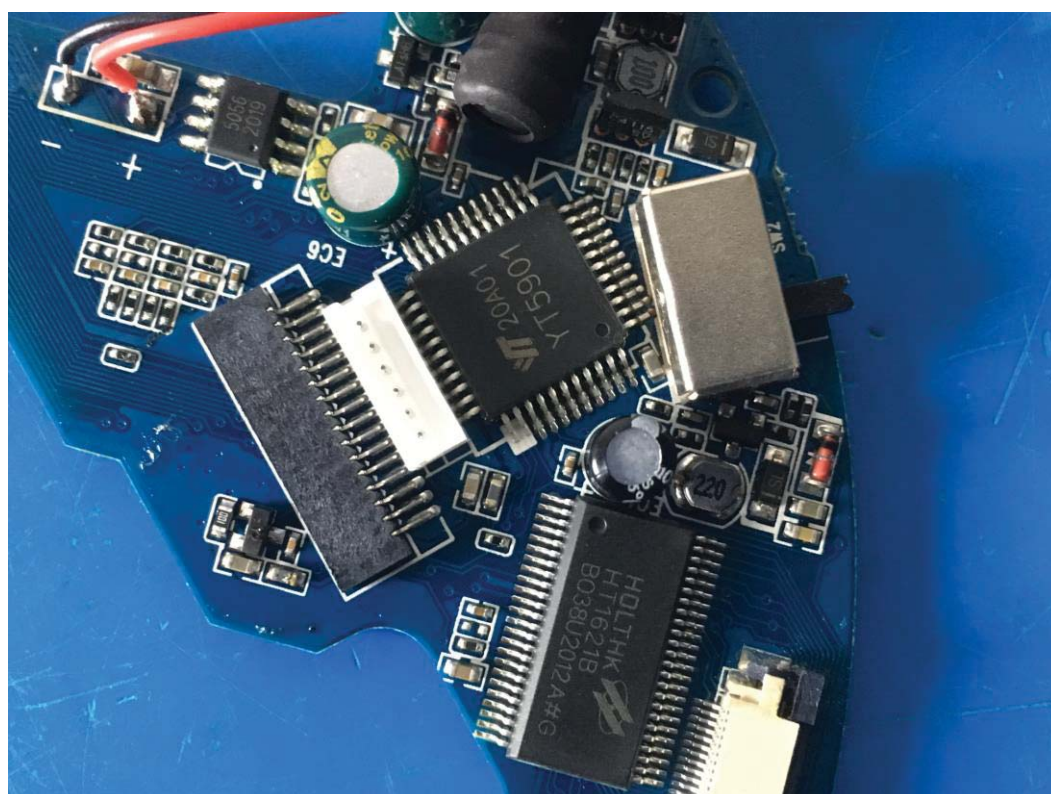
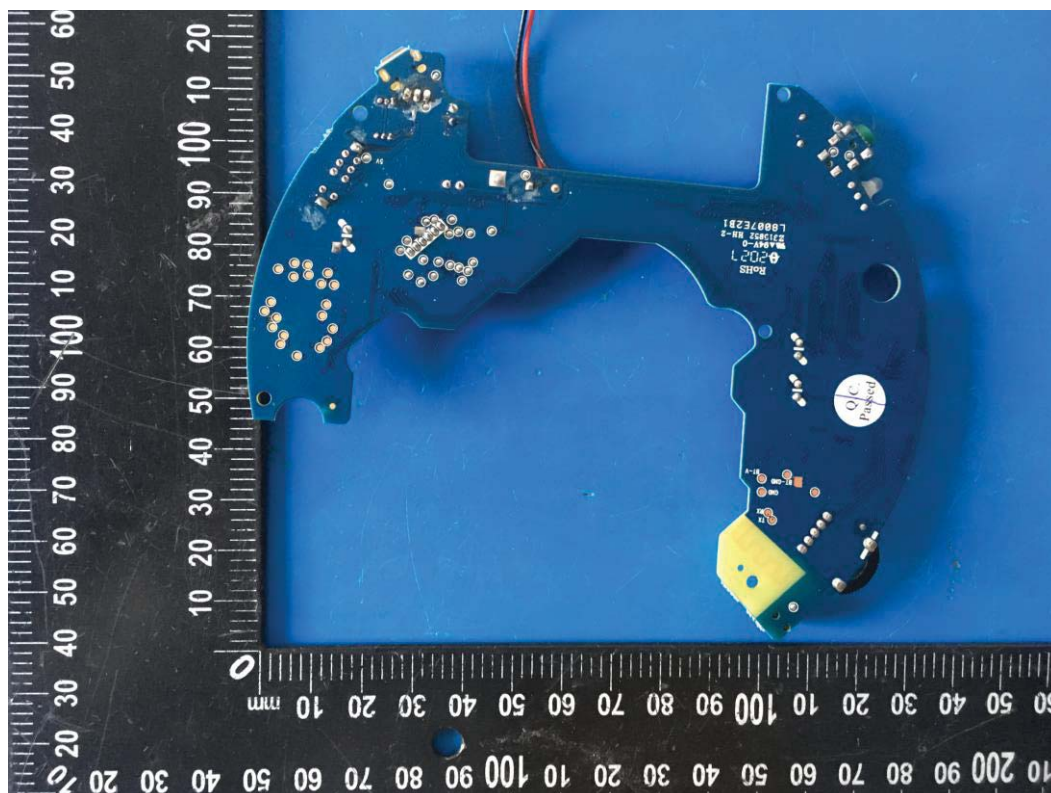


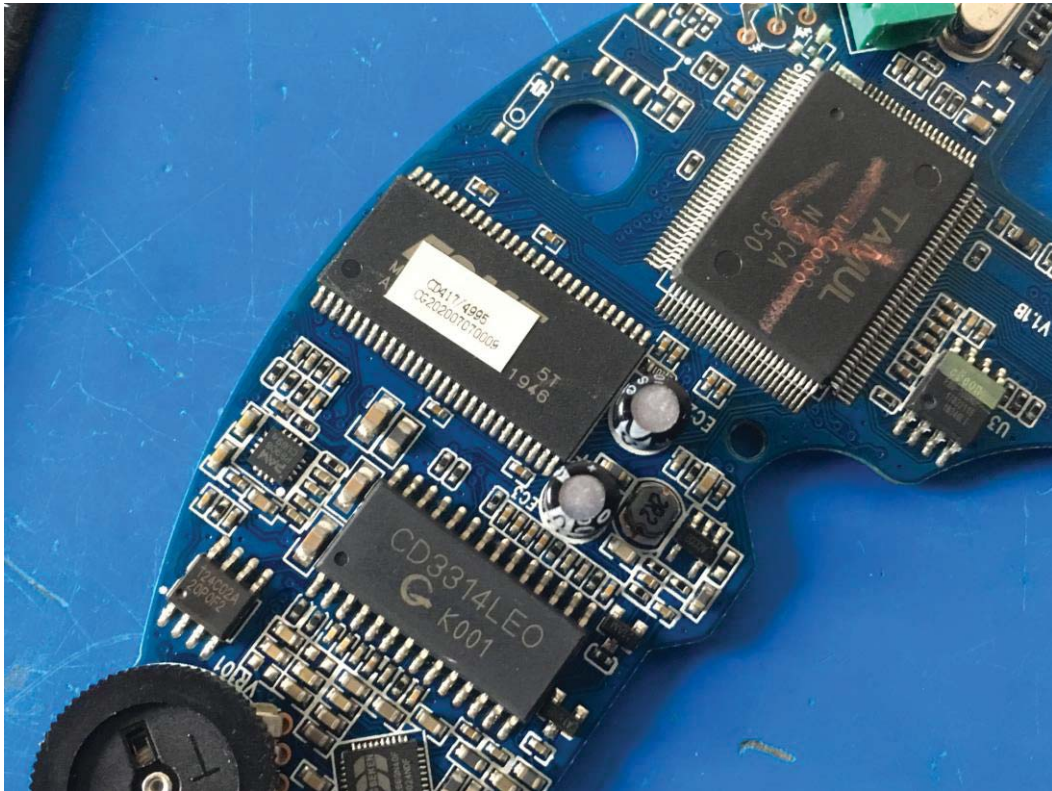












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