



FCC TEST REPORT

FCC ID: SY4-B01016

On Behalf of

Shanghai Huace Navigation Technology Ltd.

GNSS Data Collector

Model No.: LT60, LT60H

Prepared for : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China

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 : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China
Manufacturer : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China
EUT Description : GNSS Data Collector
(A) Model No. : LT60, LT60H
(B) Trademark : 

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).....: Jack Xu
Project Manager



Date of issue.....: August 17, 2022

Revision History

Revision	Issue Date	Revisions	Revised By
V0	August 17, 2022	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. 4. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	: GNSS Data Collector
Model Number	: LT60, LT60H
Diff	: All models have the same software and circuit, but GNSS modules are different. All tests are made with the LT60H model.
Trademark	: 
Power supply	: DC 5V/9V from adapter with AC 120V/60Hz, DC 3.8V from battery
Radio Technology	: Bluetooth V5.0 EDR
Operation frequency	: 2402-2480MHz
Channel No.	: 79 Channels
Channel spacing	: 1MHz
Modulation type	: GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	: Internal antenna, Maximum Gain is 1.3dBi. Antenna information is provided by applicant.
Software version	: LT60_V1.0
Hardware version	: V2.0.0
Connector cable loss	: N/A
Intend use environment	: Residential, commercial and light industrial environment

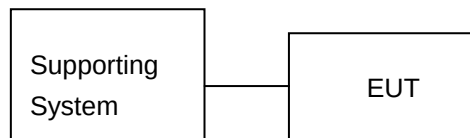
2.2. Accessories of Device (EUT)

Accessories : AC Adapter
 Manufacturer : Shenzhen ACT Industrial Co., Ltd
 Model : QC18W-G
 Ratings : Input: 100~240V 50/60Hz 0.5A
 Output: 5V=3A, 9V=2A, 12V=1.5A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDoC
1.	--	--	--	--	--

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Tested mode, channel 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
8DPSK	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	980kPa

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

September 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.	Firmware version	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	N/A	2020.09.02	3Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2021.08.25	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2021.08.25	1Year
Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-10 2082-Wa	2021.08.25	1Year
Receiver	R&S	ESCI	4.42 SP1	101165	2021.08.25	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	N/A	VULB 9168#627	2021.08.30	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	N/A	2106	2021.08.30	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	N/A	00059	2021.08.30	2Year
RF Cable	Resenberger	Cable 1	N/A	RE1	2021.08.25	1Year
RF Cable	Resenberger	Cable 2	N/A	RE2	2021.08.25	1Year
RF Cable	Resenberger	Cable 3	N/A	CE1	2021.08.25	1Year
Pre-amplifier	HP	HP8347A	N/A	2834A00455	2021.08.25	1Year
Pre-amplifier	Agilent	8449B	N/A	3008A02664	2021.08.25	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	N/A	8126-466	2021.08.25	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	N/A	101043	2021.08.25	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	N/A	00946	2021.08.30	2 Year
Preamplifier	SKET	LNPA_1840 -50	N/A	SK2018101801	2021.08.25	1 Year
Power Meter	Agilent	E9300A	N/A	MY41496628	2021.08.25	1 Year
Power Sensor	DARE	RPR3006W	N/A	15100041SNO91	2021.08.25	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000 -40-880	N/A	100631	2022.04.22	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	N/A	20140927-6	2021.08.25	1 Year
Adjustable attenuator	MWRFtest	N/A	N/A	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	N/A	N/A	N/A	N/A

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

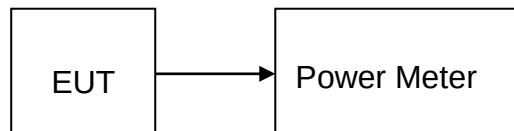
Please refer section 15.247.

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. The RF Power Meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

Mode	Freq (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Result
GFSK	2402	6.885	4.881	21	Pass
	2441	6.204	4.173	21	Pass
	2480	4.524	2.834	21	Pass
$\pi/4$ DQPSK	2402	6.101	4.075	21	Pass
	2441	5.638	3.663	21	Pass
	2480	3.570	2.275	21	Pass
8DPSK	2402	6.101	4.075	21	Pass
	2441	5.638	3.663	21	Pass
	2480	3.570	2.275	21	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.

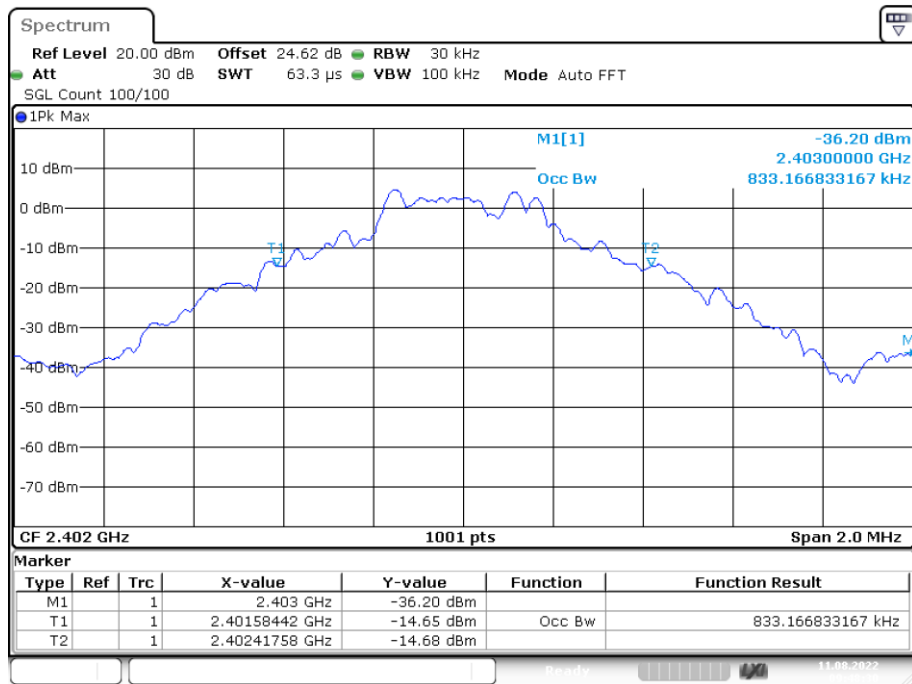
4.2. Test Procedure

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

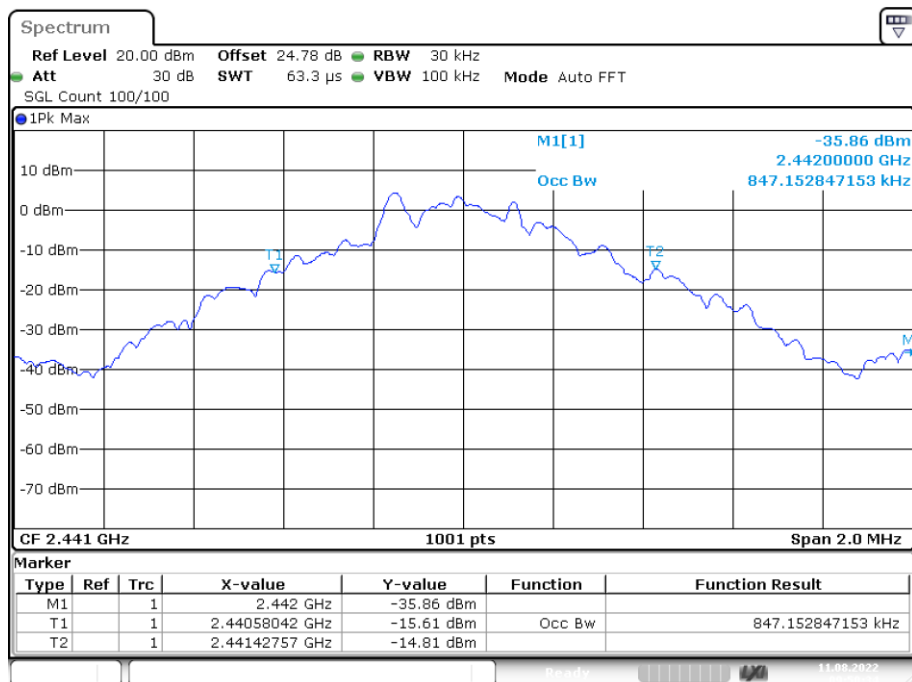
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant 1	0.833	0.896	N/A	Pass
NVNT	1-DH1	2441	Ant 1	0.847	0.882	N/A	Pass
NVNT	1-DH1	2480	Ant 1	0.837	0.896	N/A	Pass
NVNT	2-DH1	2402	Ant 1	1.163	1.28	N/A	Pass
NVNT	2-DH1	2441	Ant 1	1.153	1.238	N/A	Pass
NVNT	2-DH1	2480	Ant 1	1.165	1.282	N/A	Pass
NVNT	3-DH1	2402	Ant 1	1.157	1.222	N/A	Pass
NVNT	3-DH1	2441	Ant 1	1.165	1.258	N/A	Pass
NVNT	3-DH1	2480	Ant 1	1.155	1.262	N/A	Pass

OBW NVNT 1-DH1 2402MHz Ant1



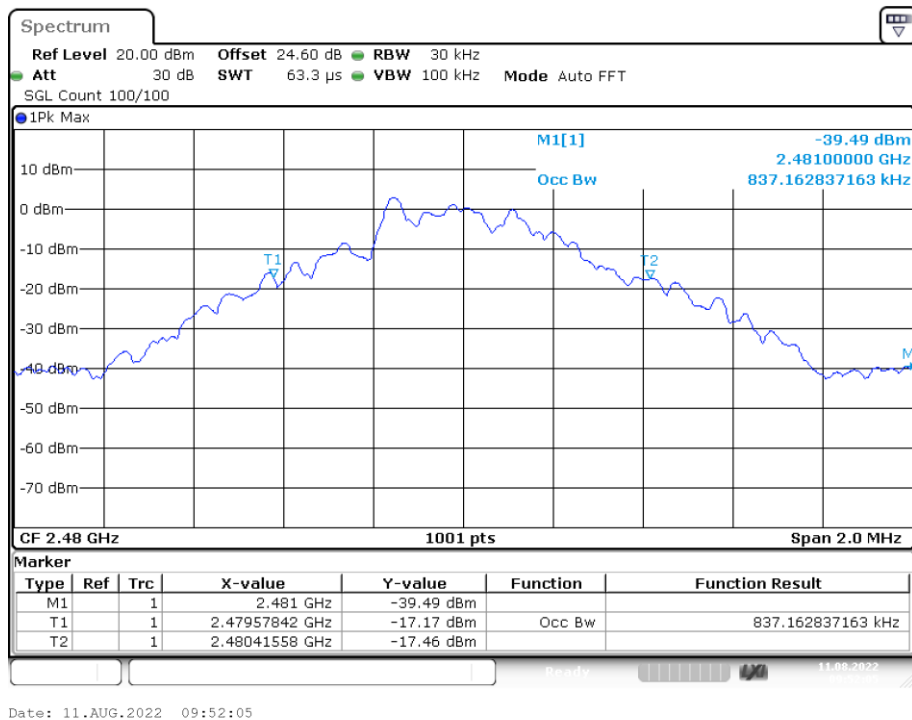
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OBW NVNT 1-DH1 2441MHz Ant1

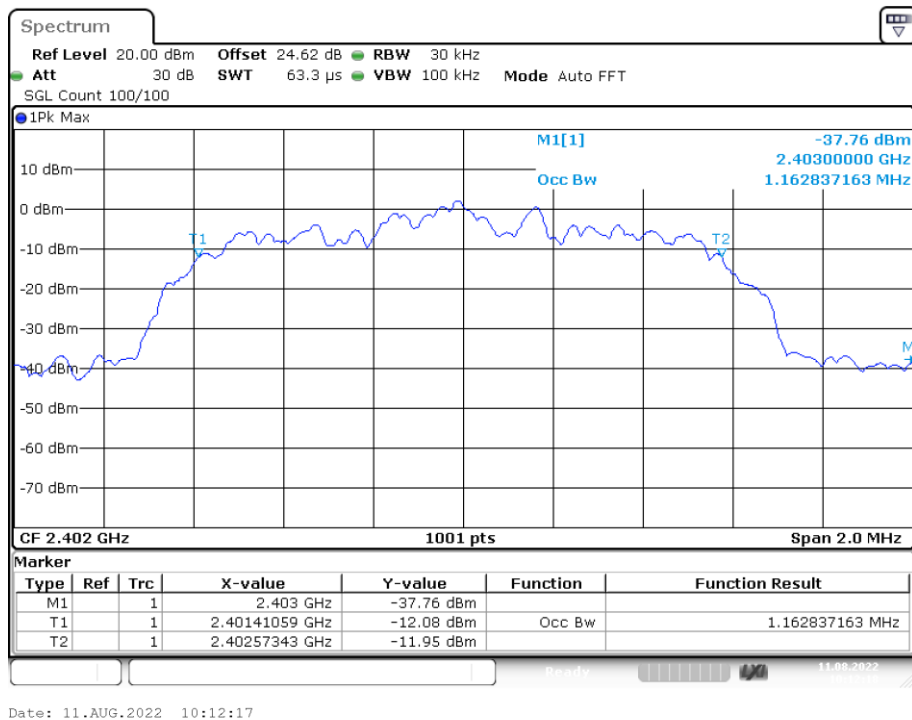


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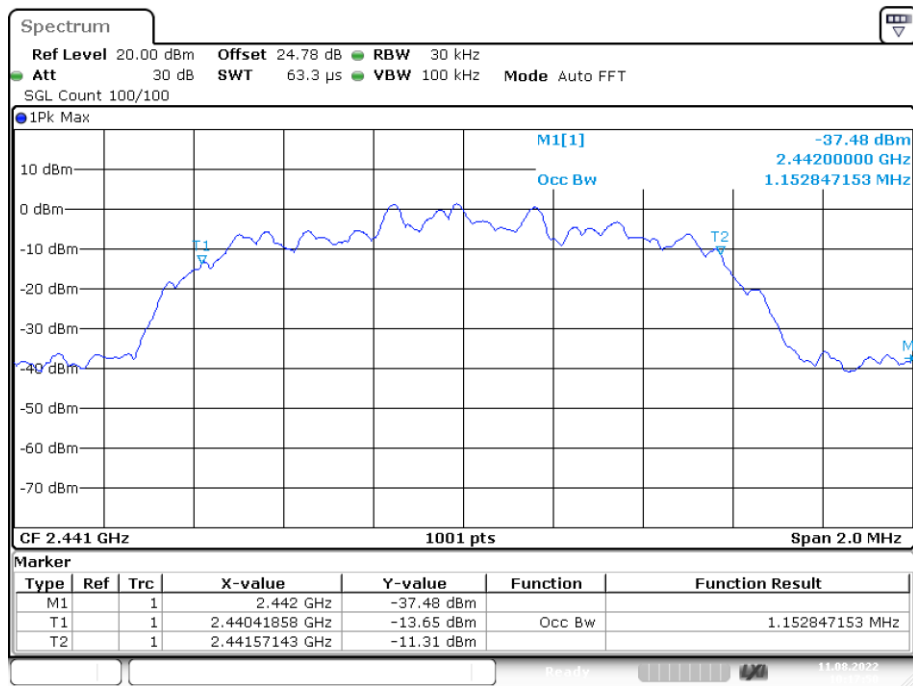
OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1

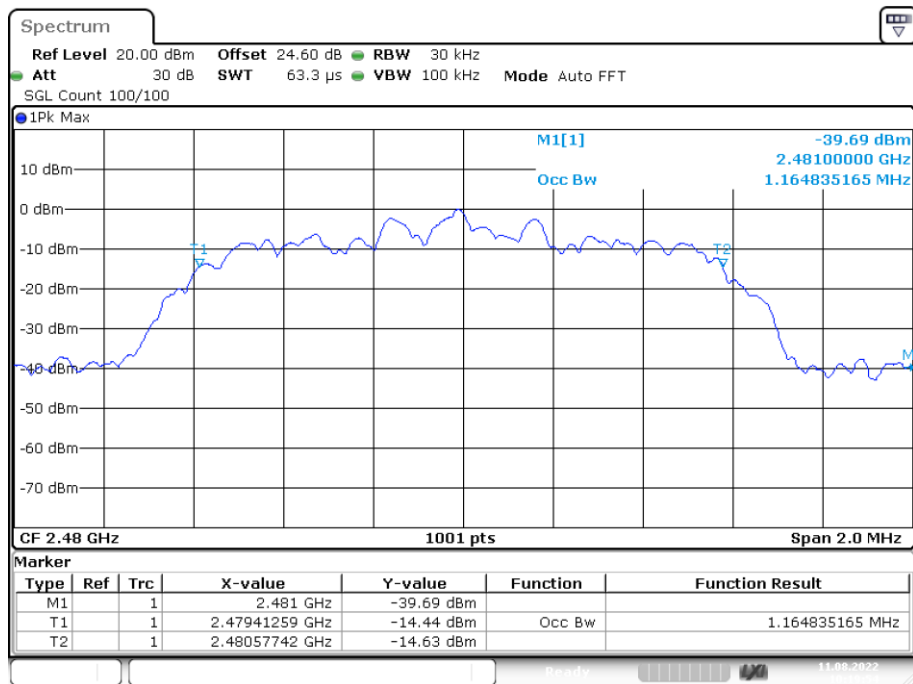


OBW NVNT 2-DH1 2441MHz Ant1



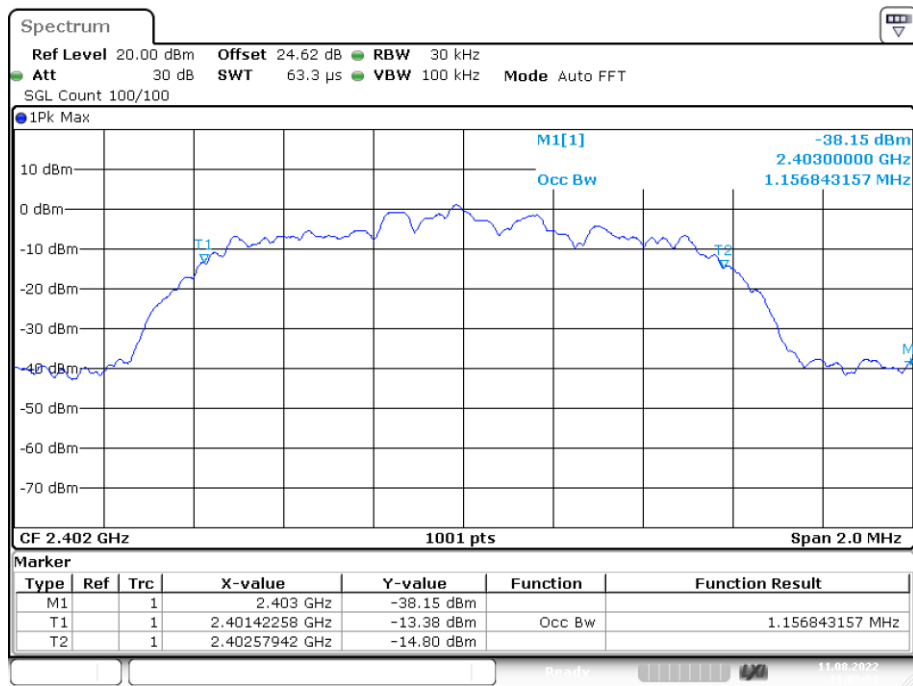
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OBW NVNT 2-DH1 2480MHz Ant1



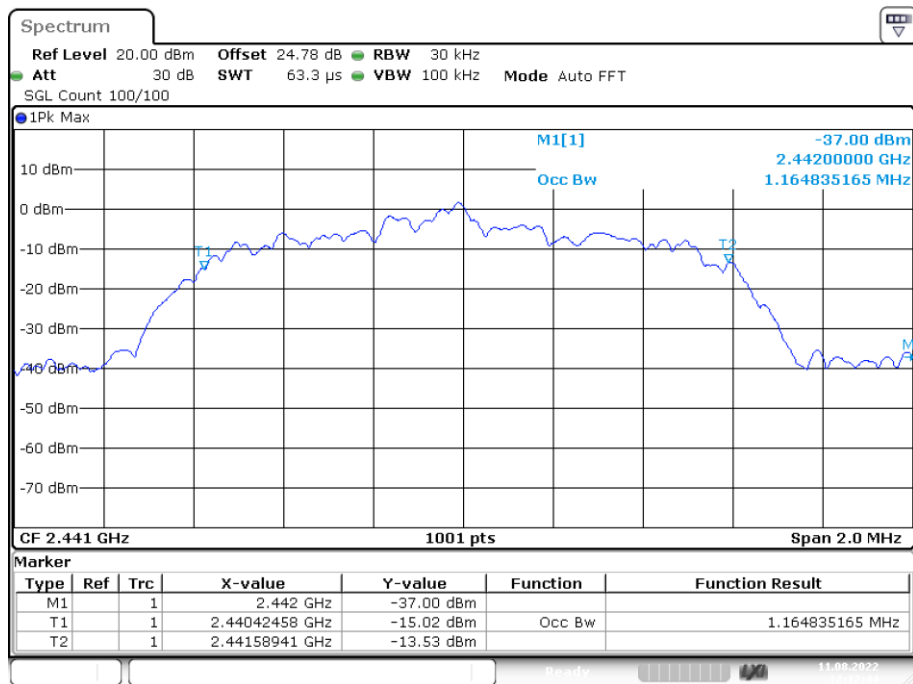
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OBW NVNT 3-DH1 2402MHz Ant1



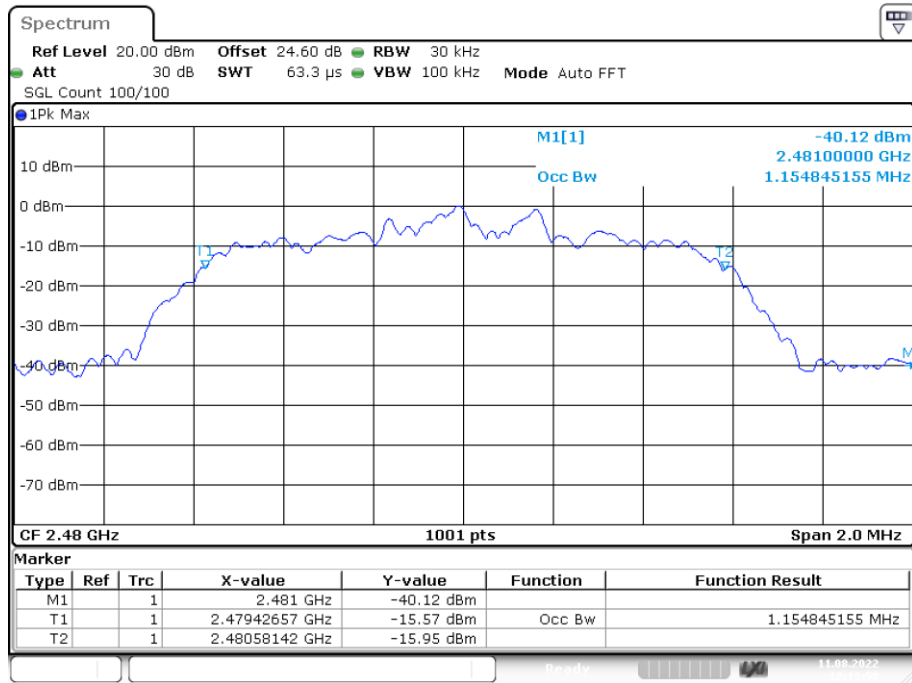
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OBW NVNT 3-DH1 2441MHz Ant1



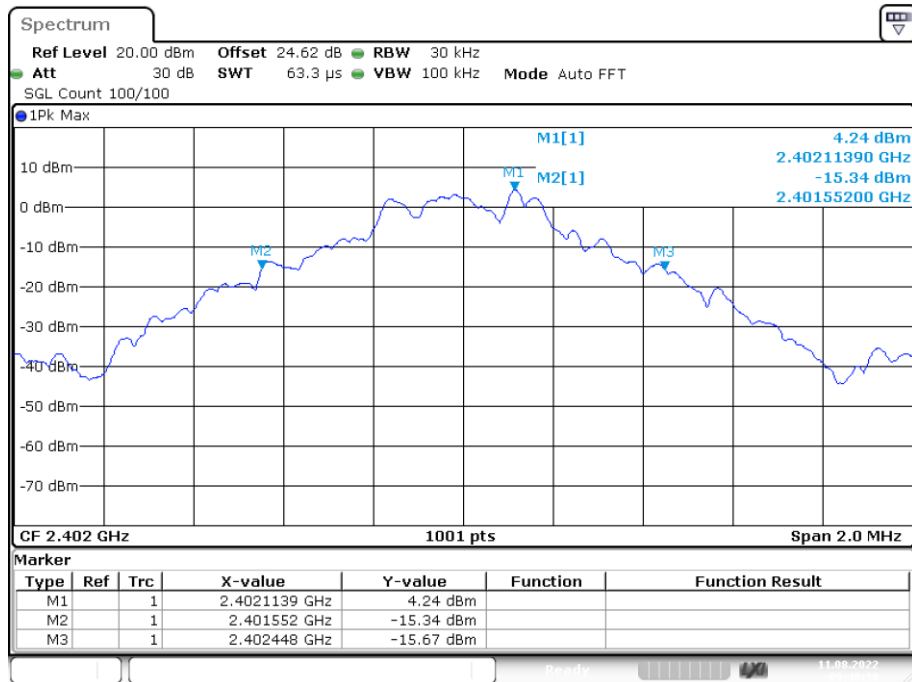
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OBW NVNT 3-DH1 2480MHz Ant1



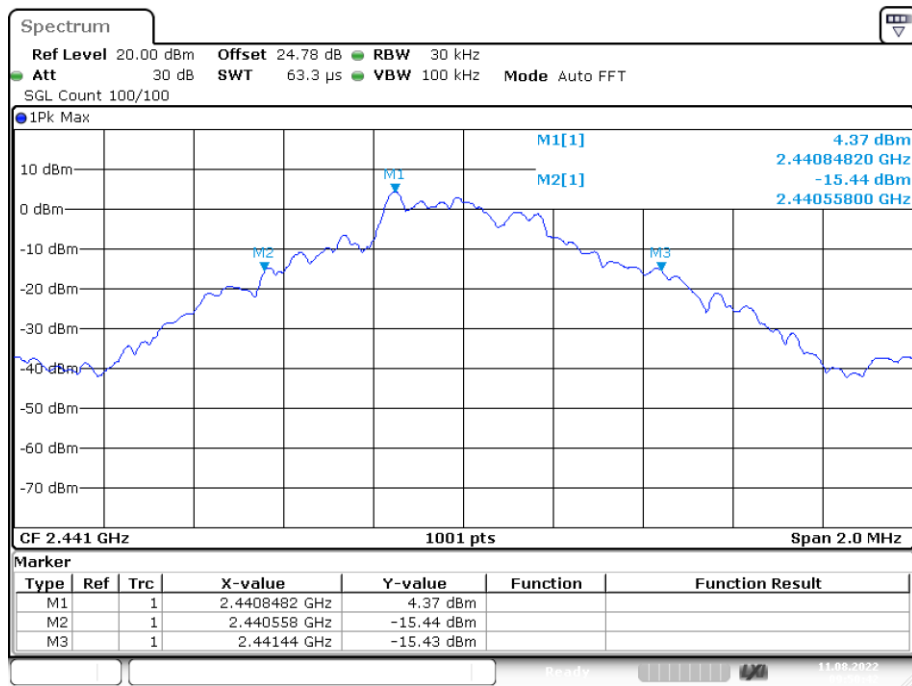
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-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



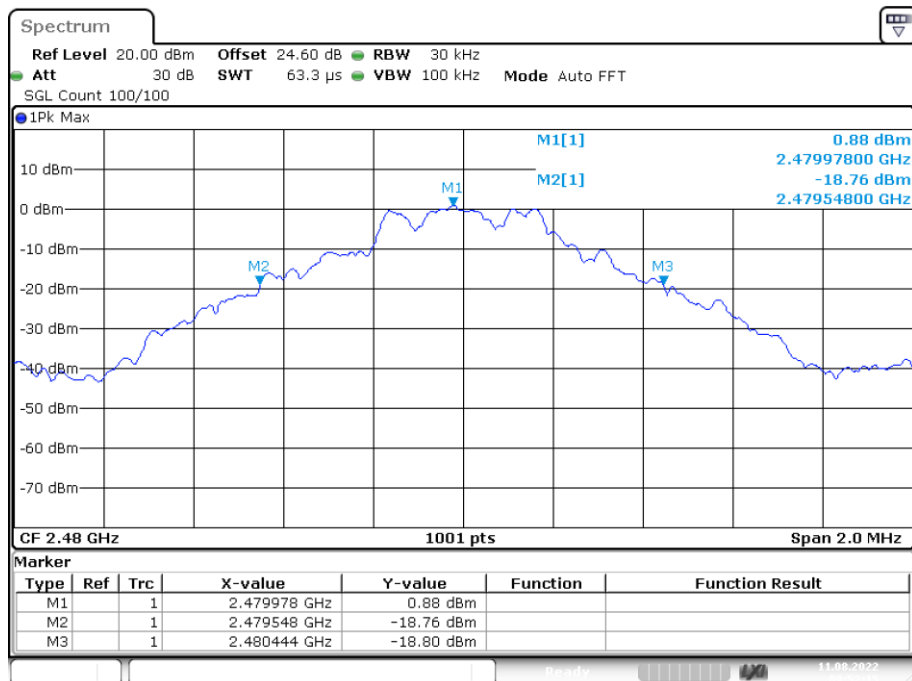
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-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



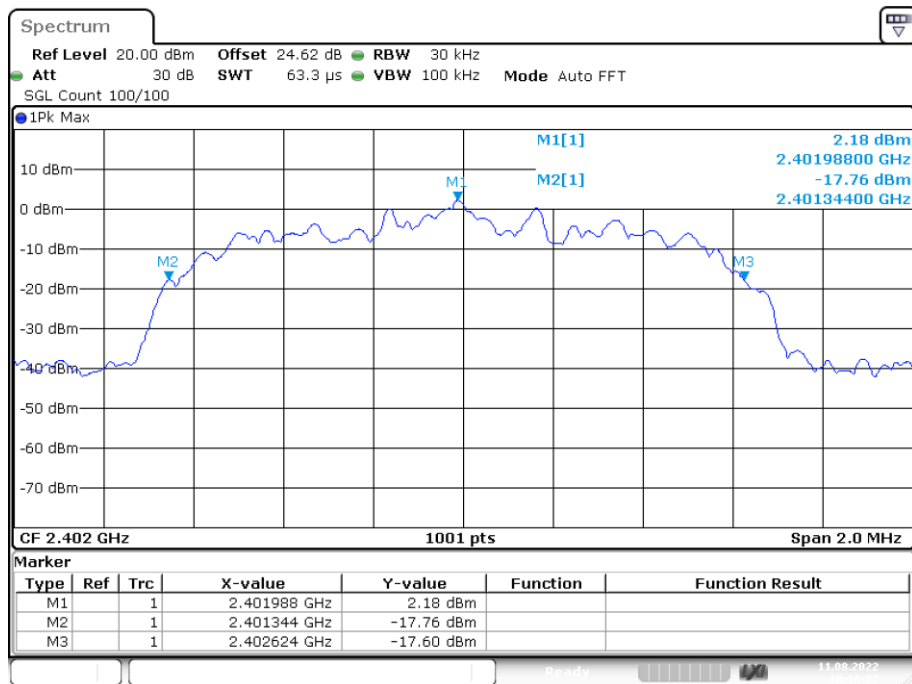
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-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



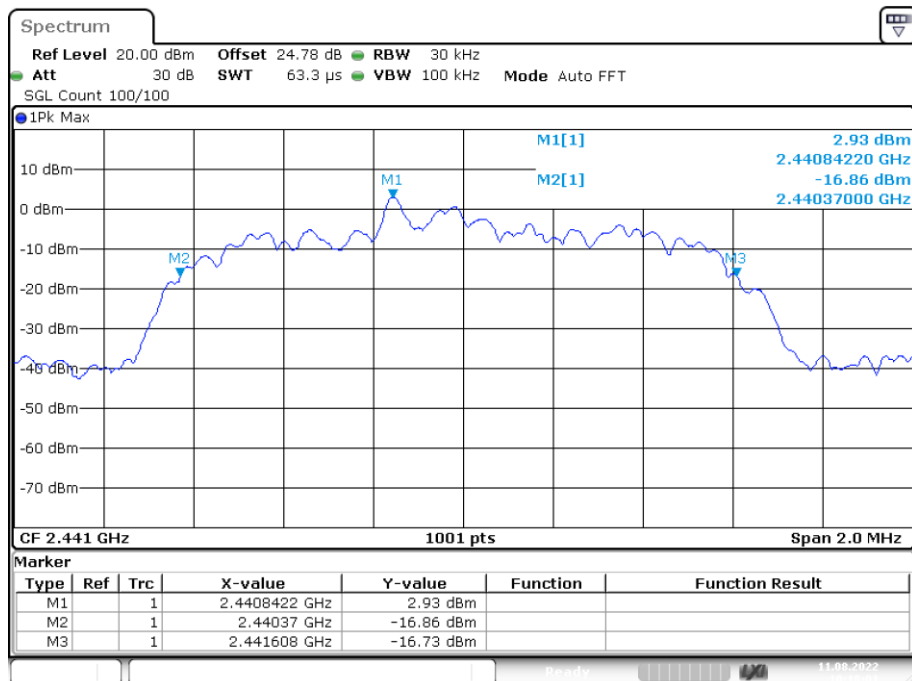
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-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



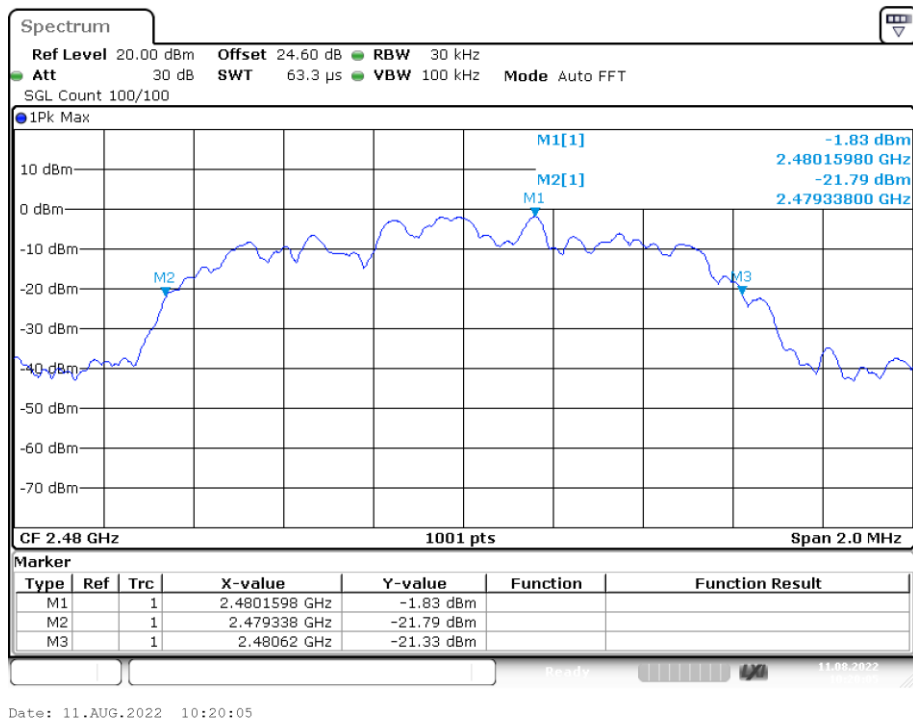
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-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1

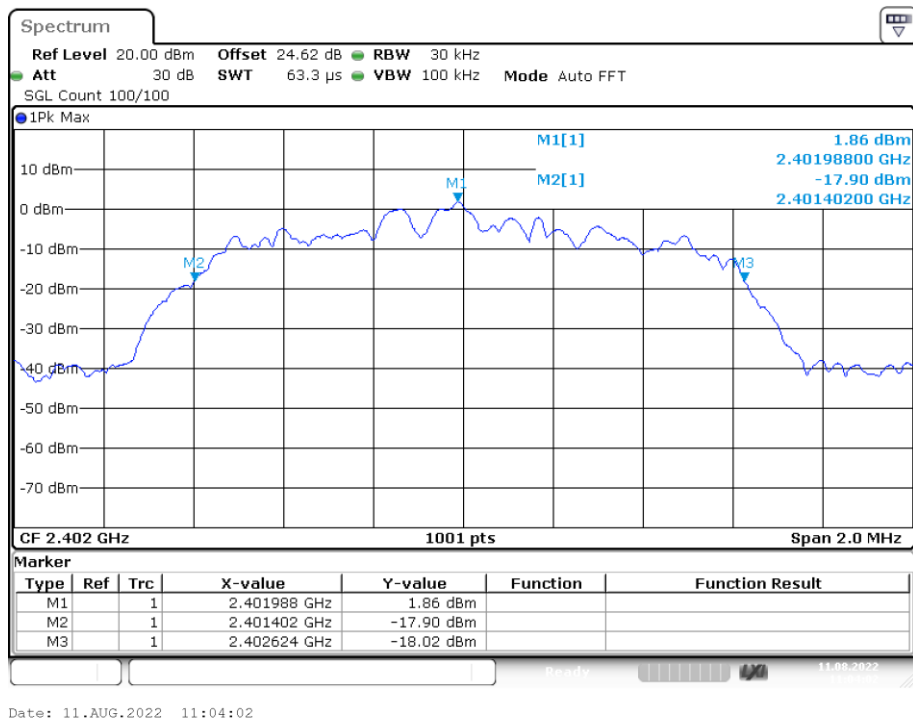


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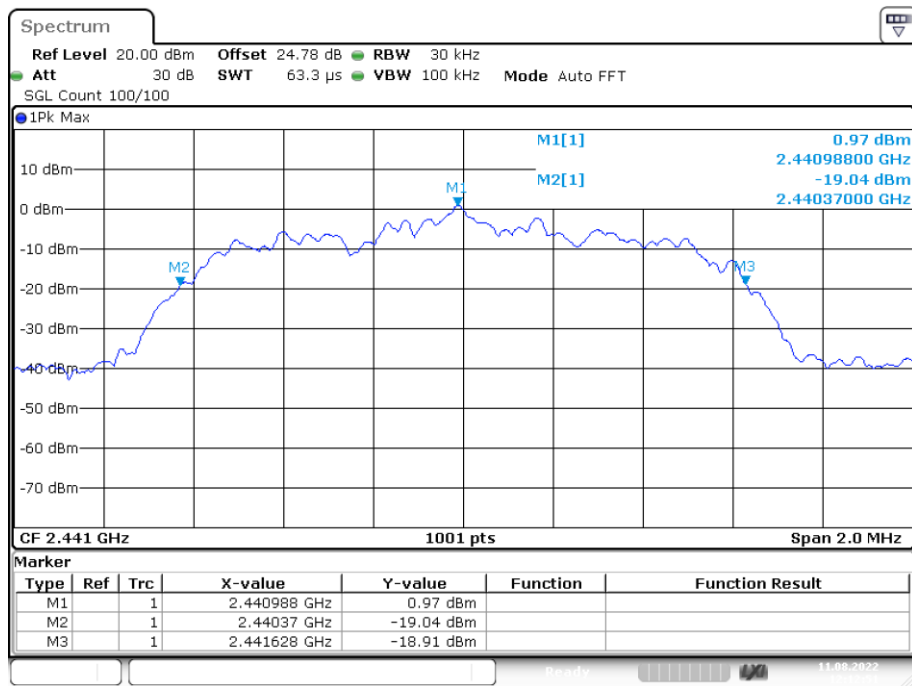
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1

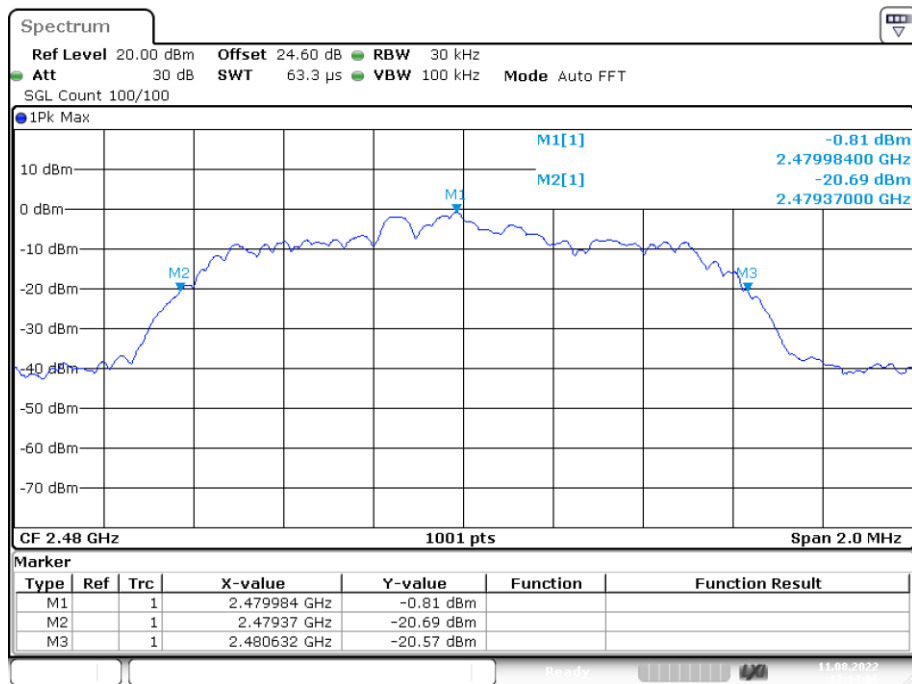


-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



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-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1



Date: 11.AUG.2022 12:14:06

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

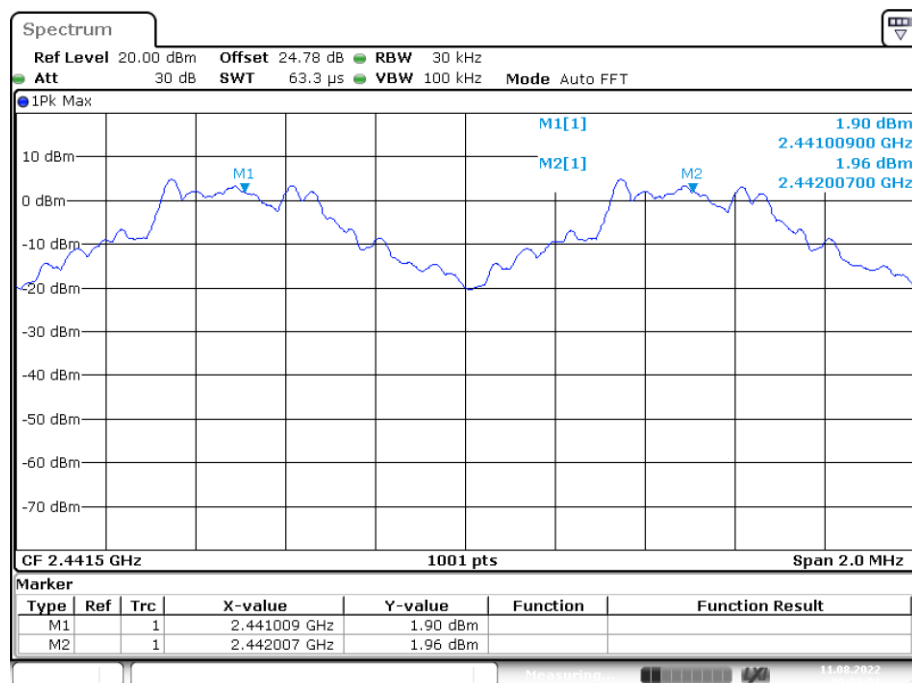
5.2. Test Procedure

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 30kHz RBW and 100kHz VBW.

5.3. Test Result

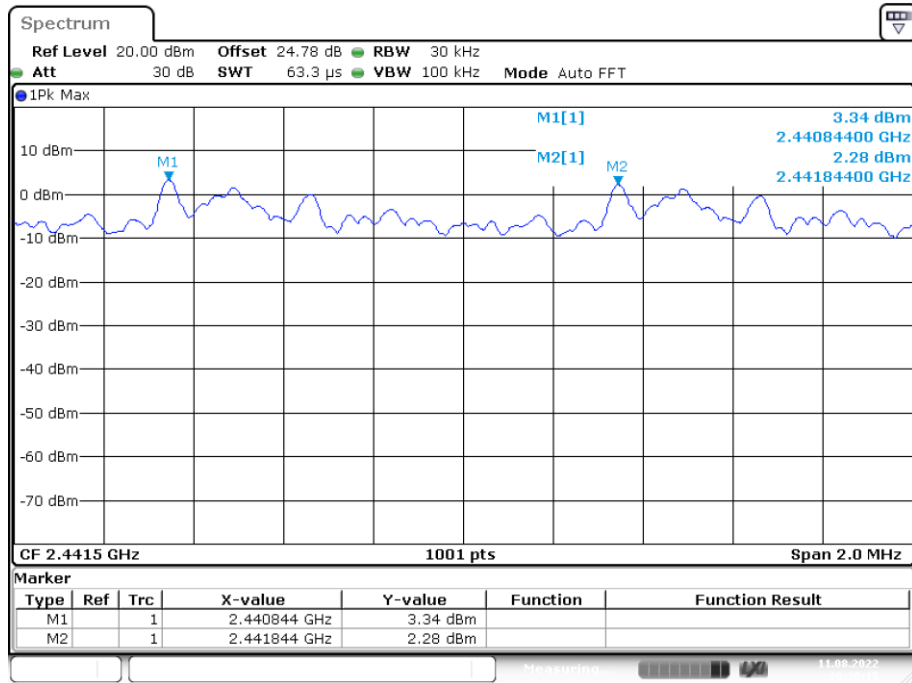
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2441.009	2442.007	0.998	0.882	Pass
NVNT	2-DH1	2440.844	2441.844	1	0.825	Pass
NVNT	3-DH1	2440.986	2441.986	1	0.839	Pass

CFS NVNT 1-DH1 2441MHz Ant1



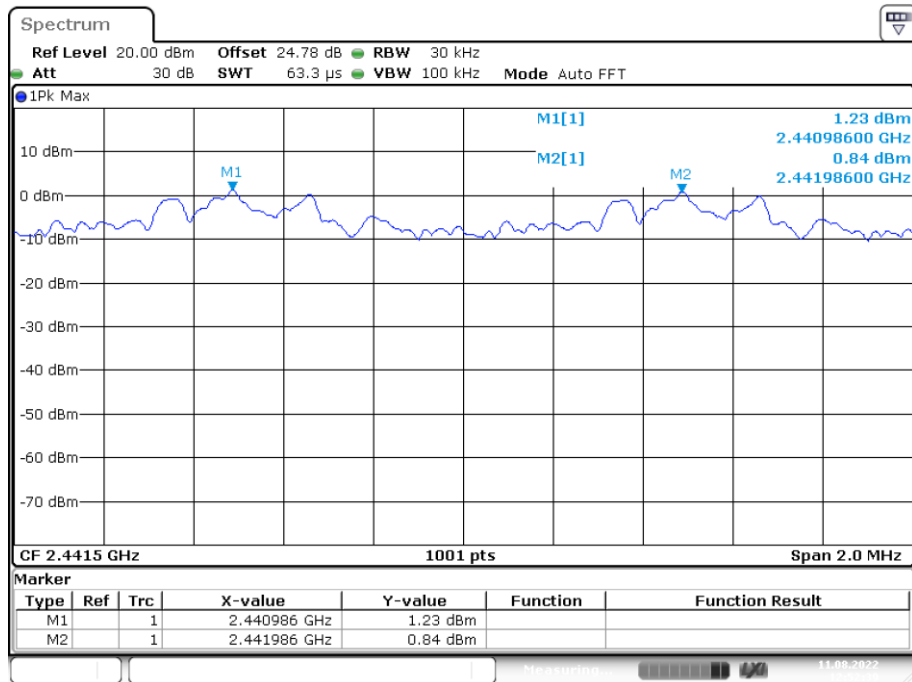
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CFS NVNT 2-DH1 2441MHz Ant1



Date: 11.AUG.2022 10:30:14

CFS NVNT 3-DH1 2441MHz Ant1



Date: 11.AUG.2022 12:52:38

6. NUMBER OF HOPPING CHANNEL

6.1. Limit

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

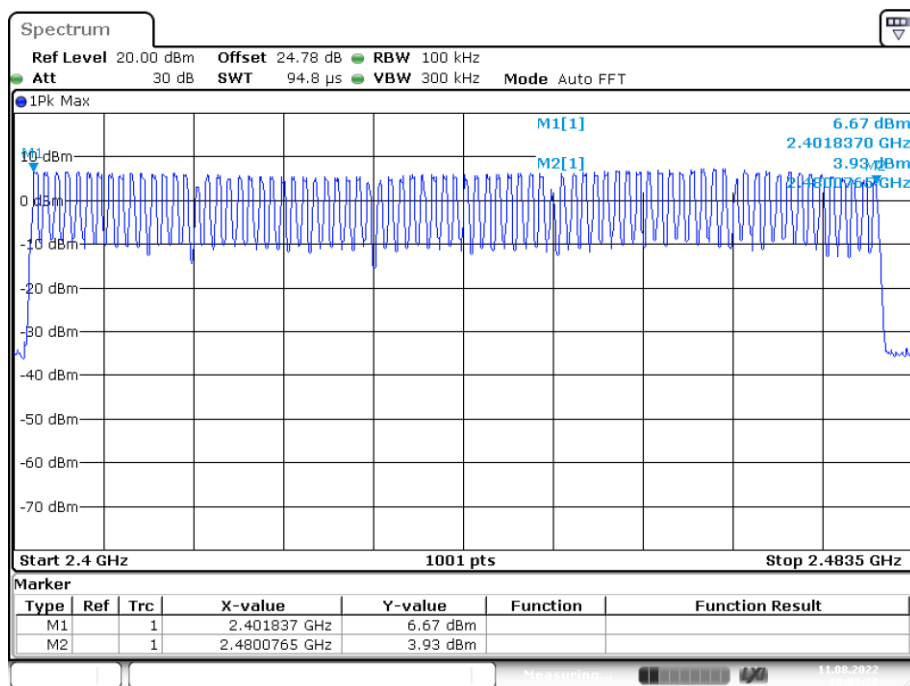
6.2. Test Procedure

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

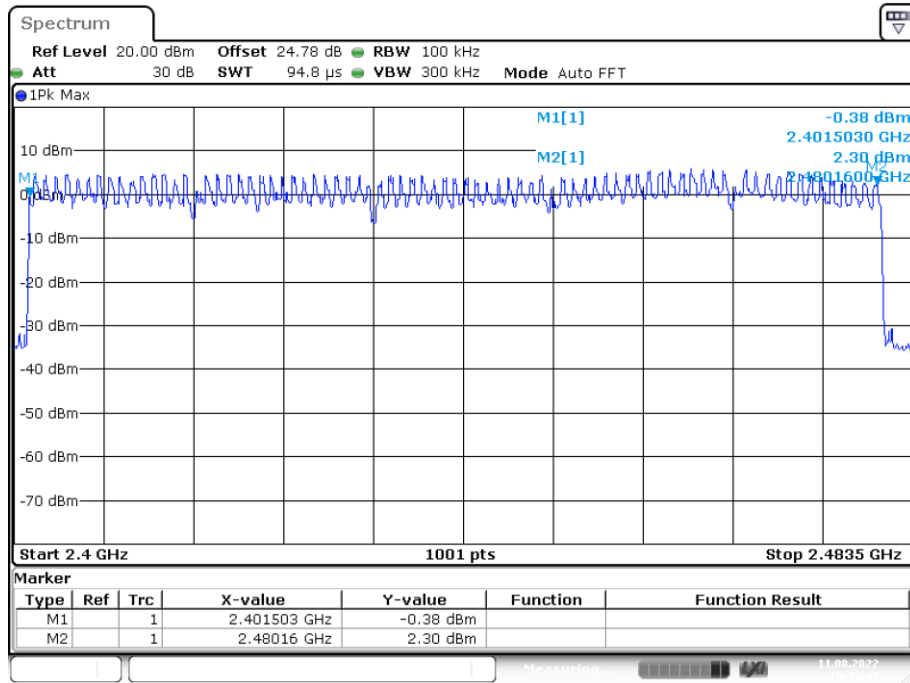
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass

Hopping No. NVNT 1-DH1 2441MHz Ant1



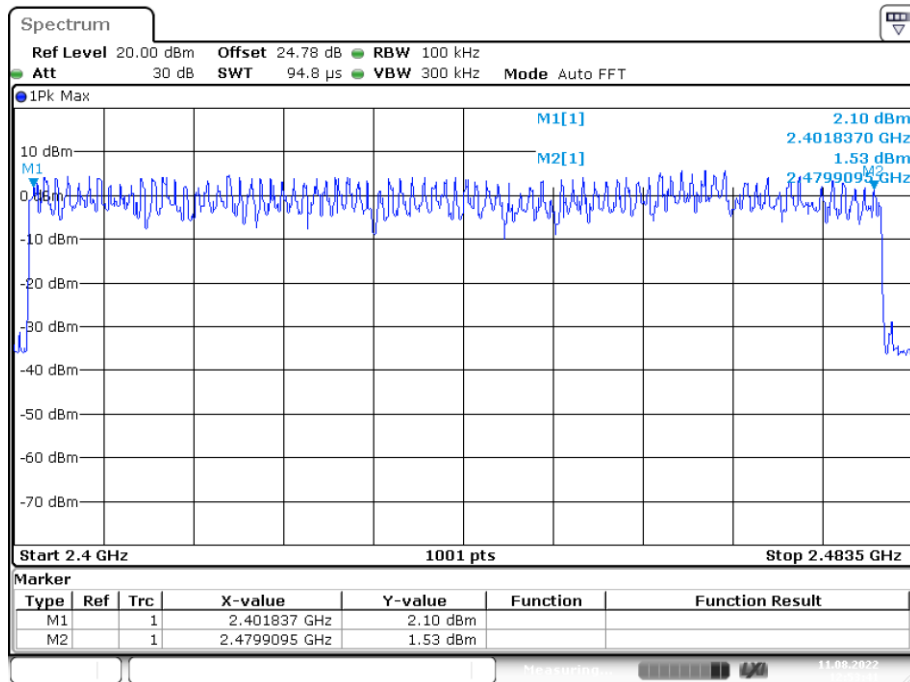
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Hopping No. NVNT 2-DH1 2441MHz Ant1



Date: 11.AUG.2022 10:33:47

Hopping No. NVNT 3-DH1 2441MHz Ant1



Date: 11.AUG.2022 12:53:41

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=1MHz, Span = 0Hz, Sweep = auto.

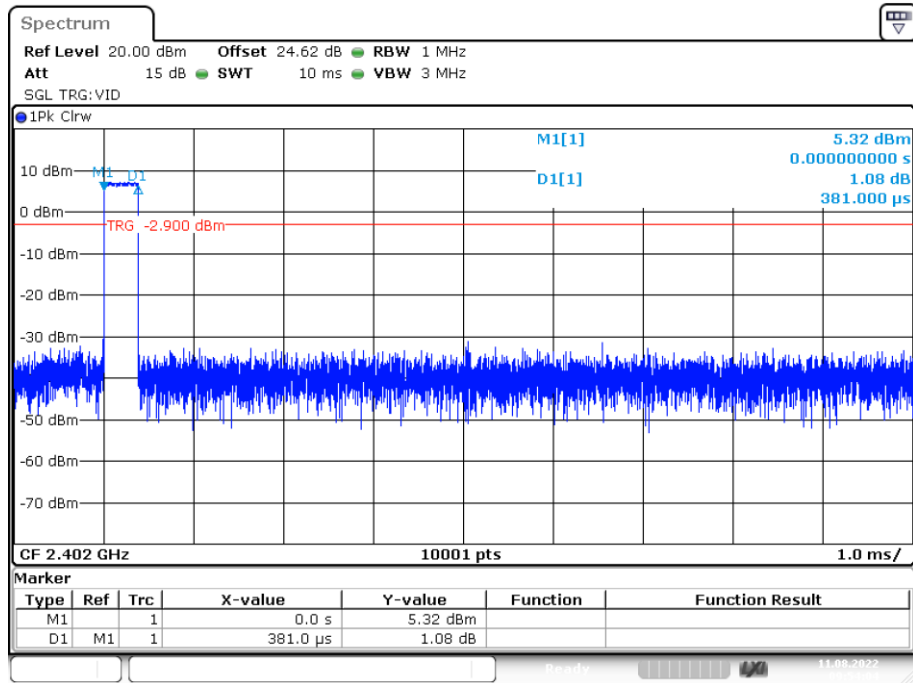
7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Result

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2402	Ant1	0.381	121.158	318	31600	400	Pass
NVNT	1-DH1	2441	Ant1	0.381	121.539	319	31600	400	Pass
NVNT	1-DH1	2480	Ant1	0.381	121.539	319	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.638	170.352	104	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.885	187.525	65	31600	400	Pass
NVNT	2-DH1	2402	Ant1	0.387	122.679	317	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.387	123.066	318	31600	400	Pass
NVNT	2-DH1	2480	Ant1	0.387	123.066	318	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.639	183.568	112	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.886	178.932	62	31600	400	Pass
NVNT	3-DH1	2402	Ant1	0.387	121.905	315	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.387	121.131	313	31600	400	Pass
NVNT	3-DH1	2480	Ant1	0.388	122.996	317	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.639	179.118	62	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.889	158.895	55	31600	400	Pass

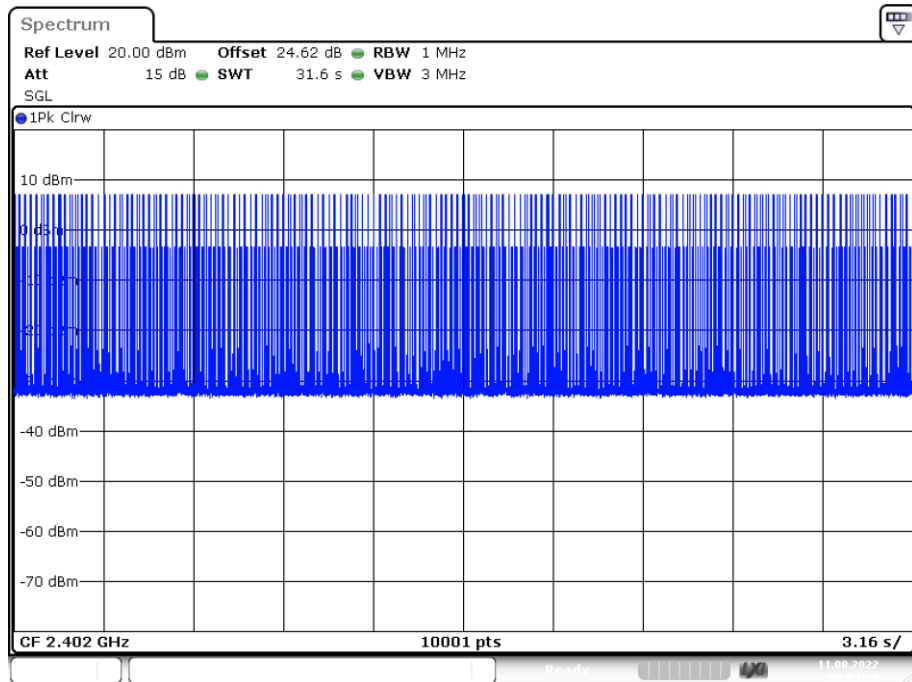
Note: Total Dwell Time= Pulse Time* Burst Count

Dwell NVNT 1-DH1 2402MHz Ant1 One Burst



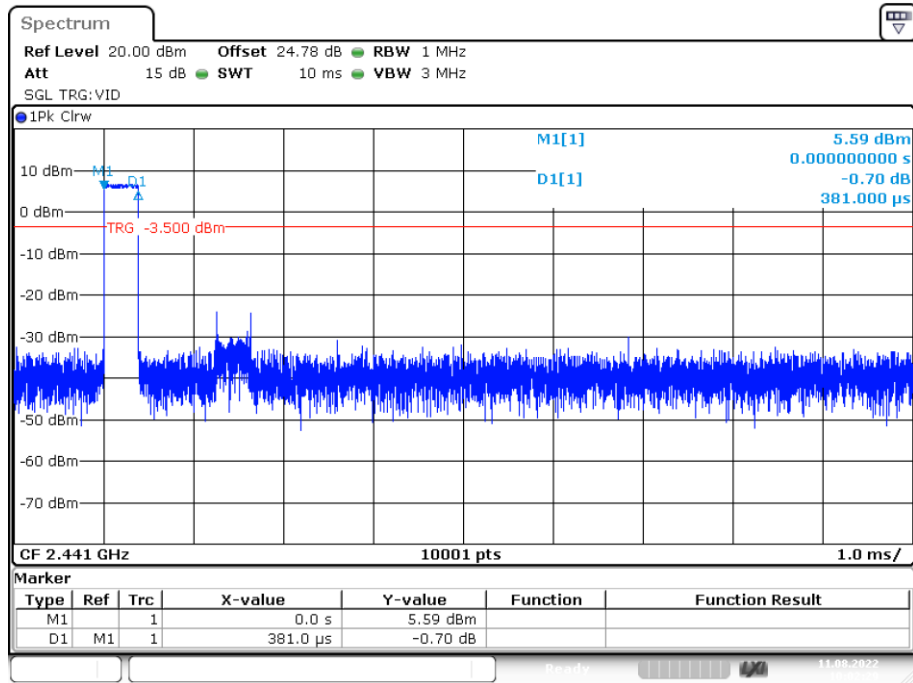
Date: 11.AUG.2022 09:54:04

Dwell NVNT 1-DH1 2402MHz Ant1 Accumulated



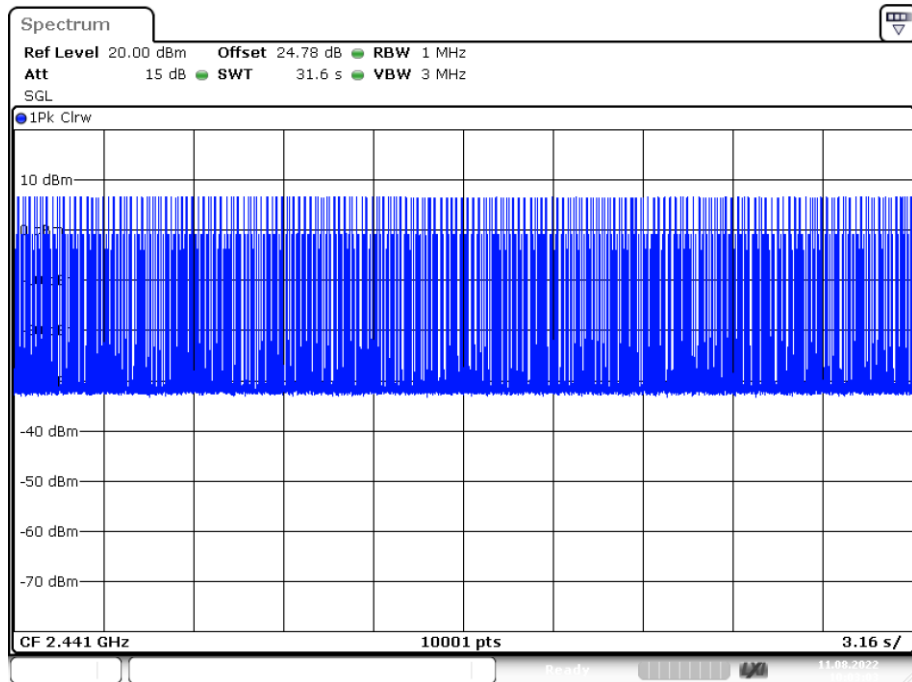
Date: 11.AUG.2022 09:54:39

Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



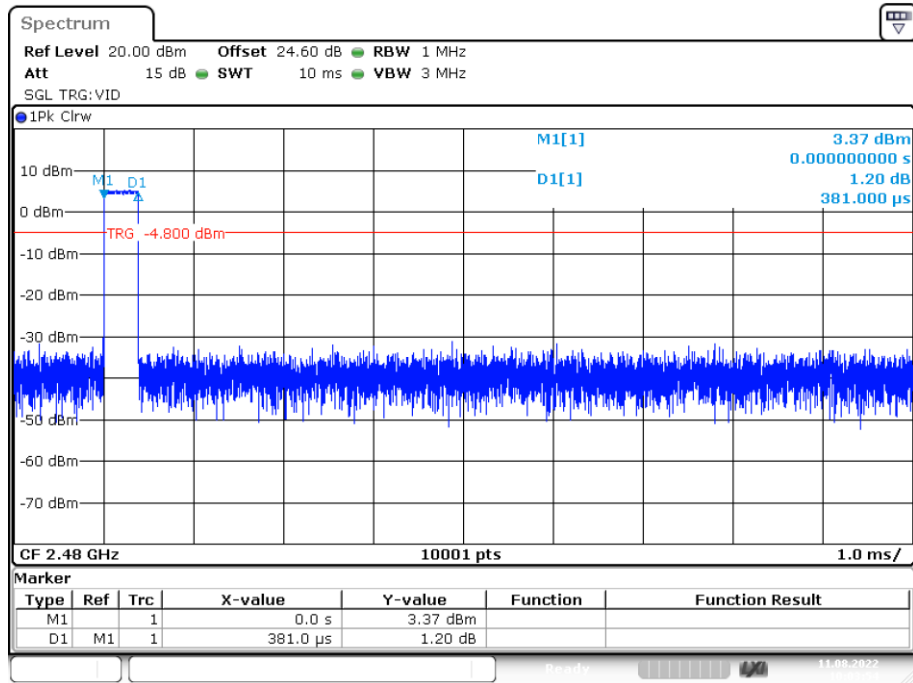
Date: 11.AUG.2022 10:02:29

Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



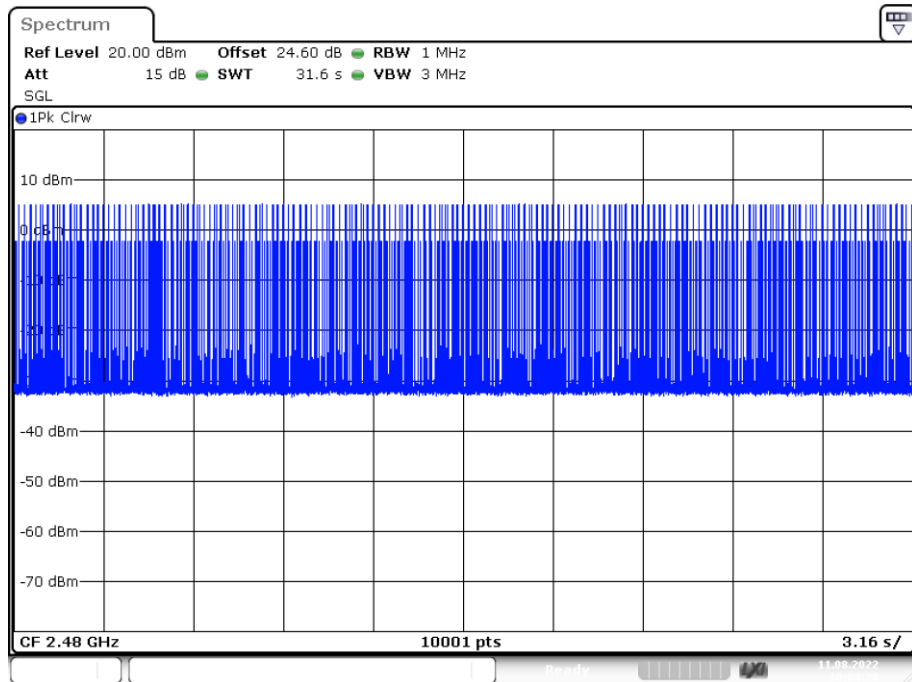
Date: 11.AUG.2022 10:03:03

Dwell NVNT 1-DH1 2480MHz Ant1 One Burst



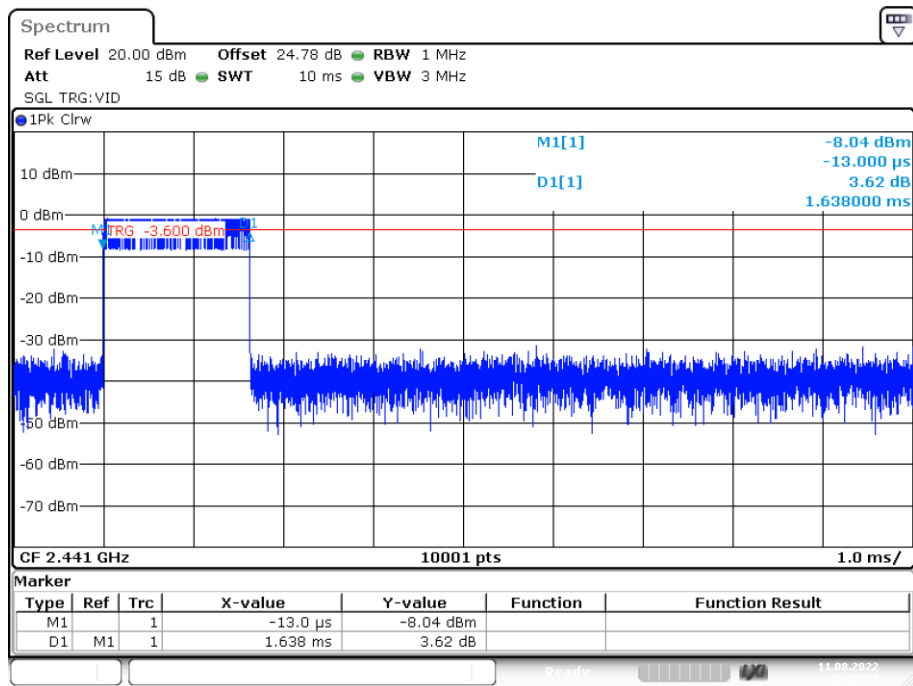
Date: 11.AUG.2022 10:03:53

Dwell NVNT 1-DH1 2480MHz Ant1 Accumulated



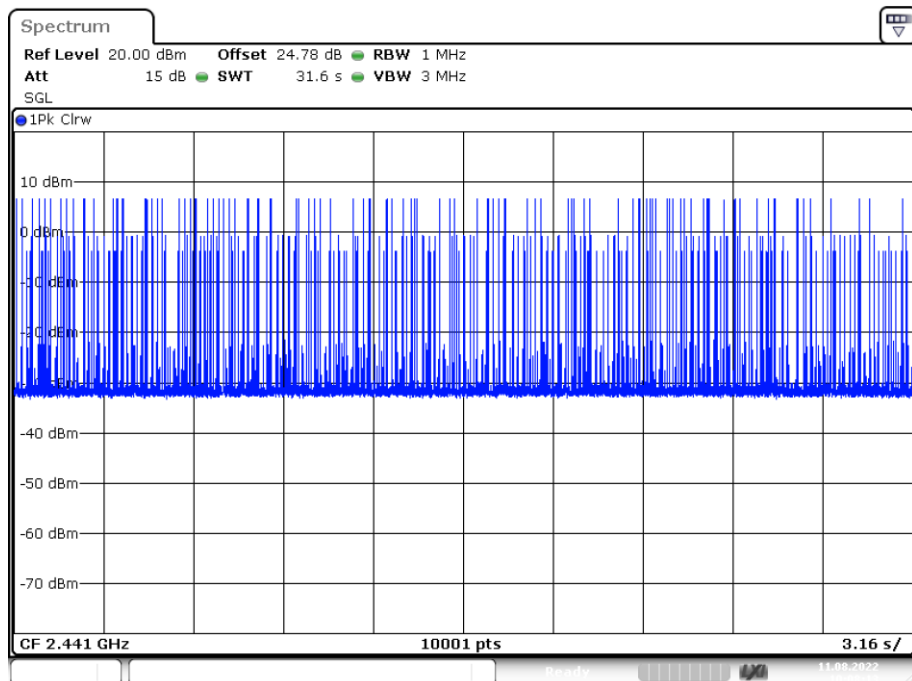
Date: 11.AUG.2022 10:04:28

Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



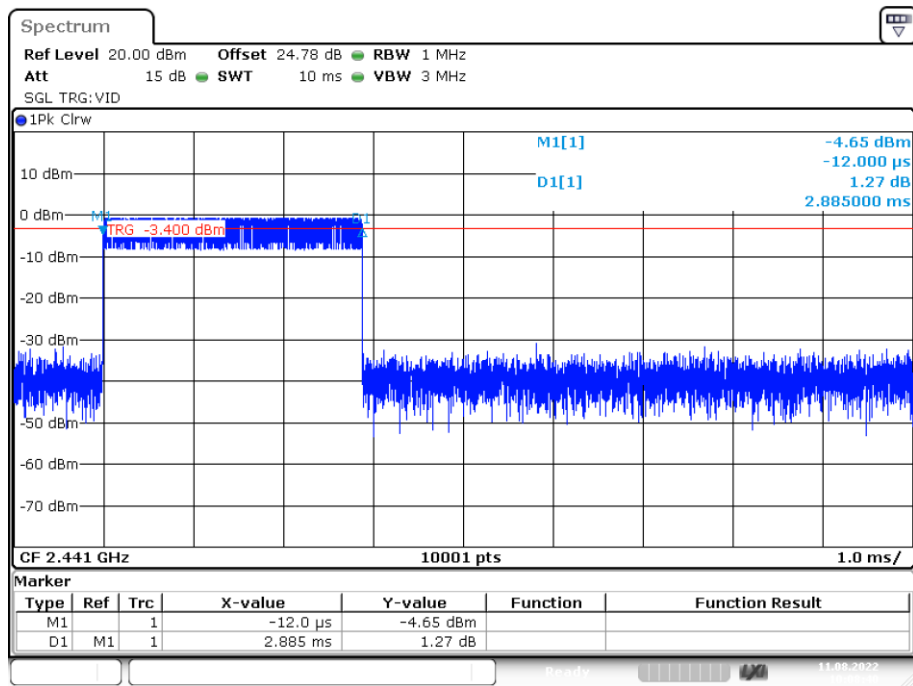
Date: 11.AUG.2022 10:07:39

Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



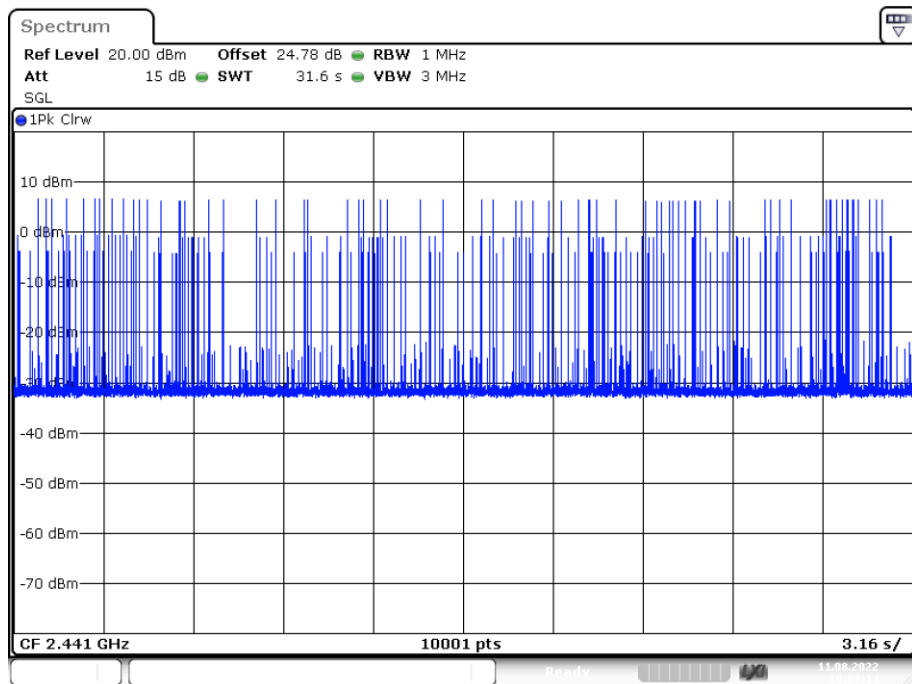
Date: 11.AUG.2022 10:08:13

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



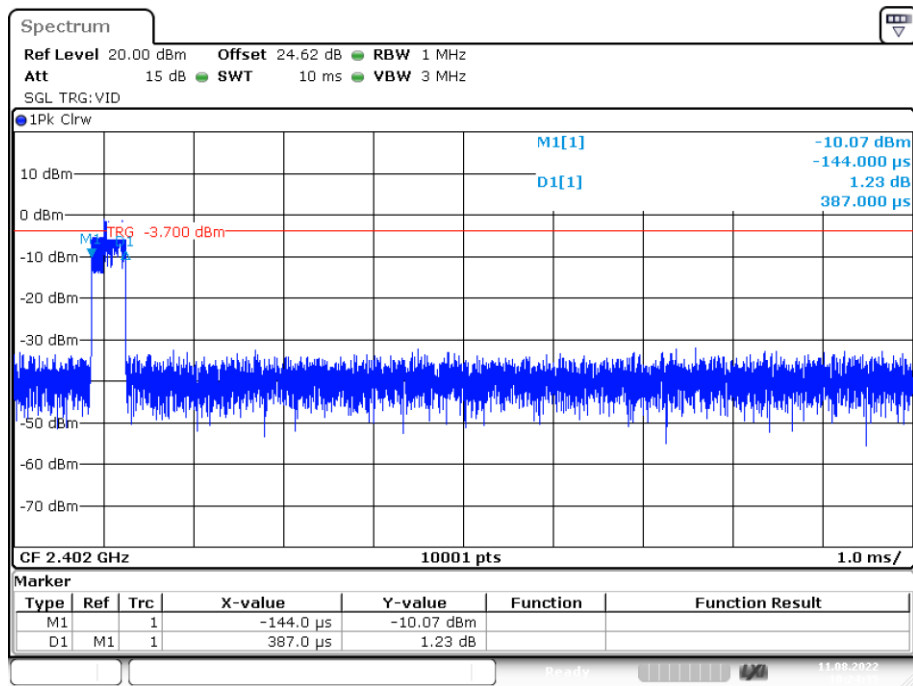
Date: 11.AUG.2022 10:08:40

Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



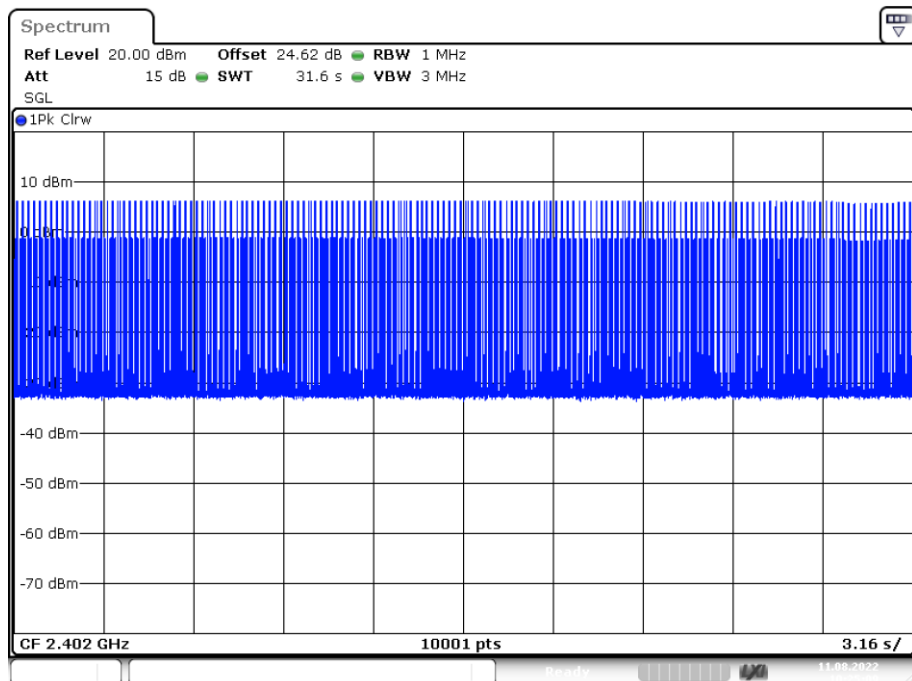
Date: 11.AUG.2022 10:09:14

Dwell NVNT 2-DH1 2402MHz Ant1 One Burst



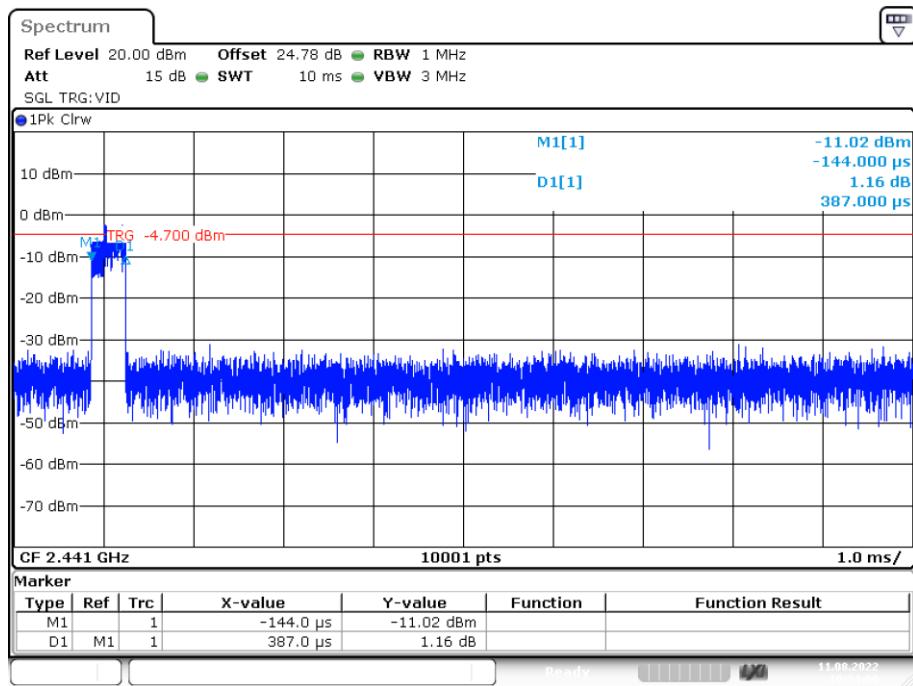
Date: 11.AUG.2022 10:24:35

Dwell NVNT 2-DH1 2402MHz Ant1 Accumulated



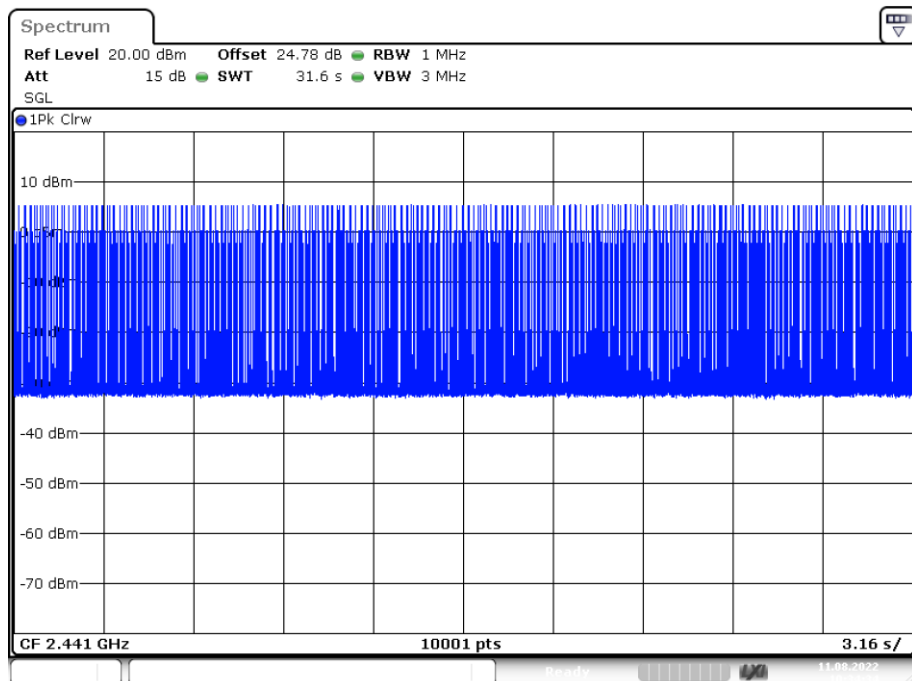
Date: 11.AUG.2022 10:25:09

Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



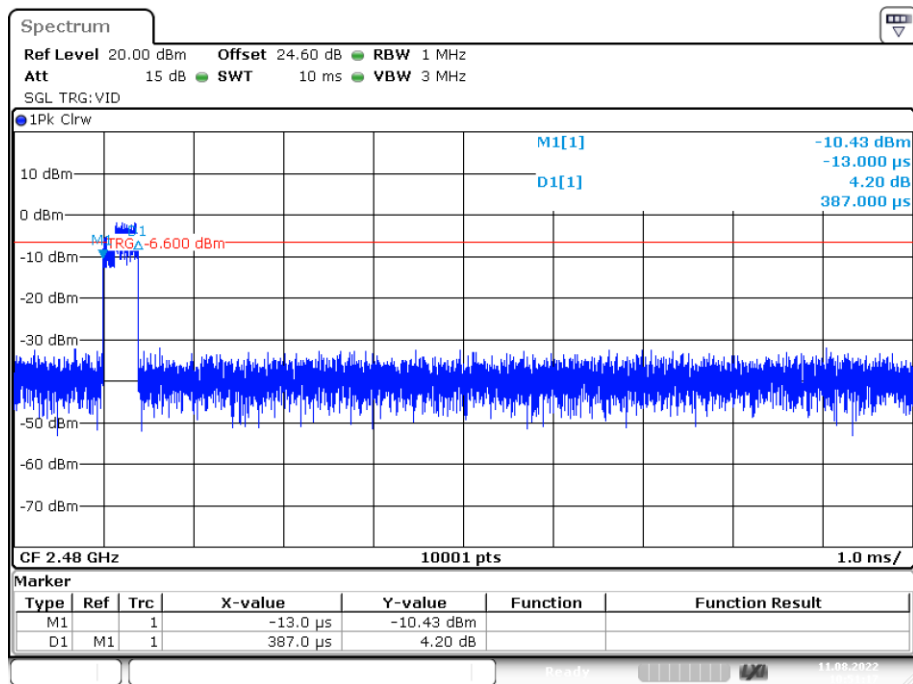
Date: 11.AUG.2022 10:34:00

Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



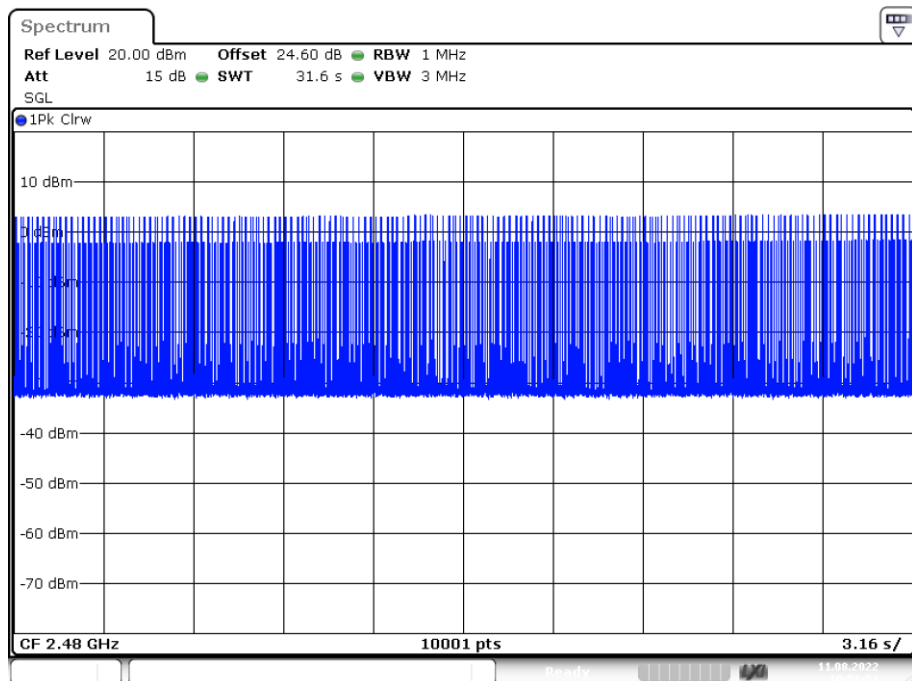
Date: 11.AUG.2022 10:34:34

Dwell NVNT 2-DH1 2480MHz Ant1 One Burst



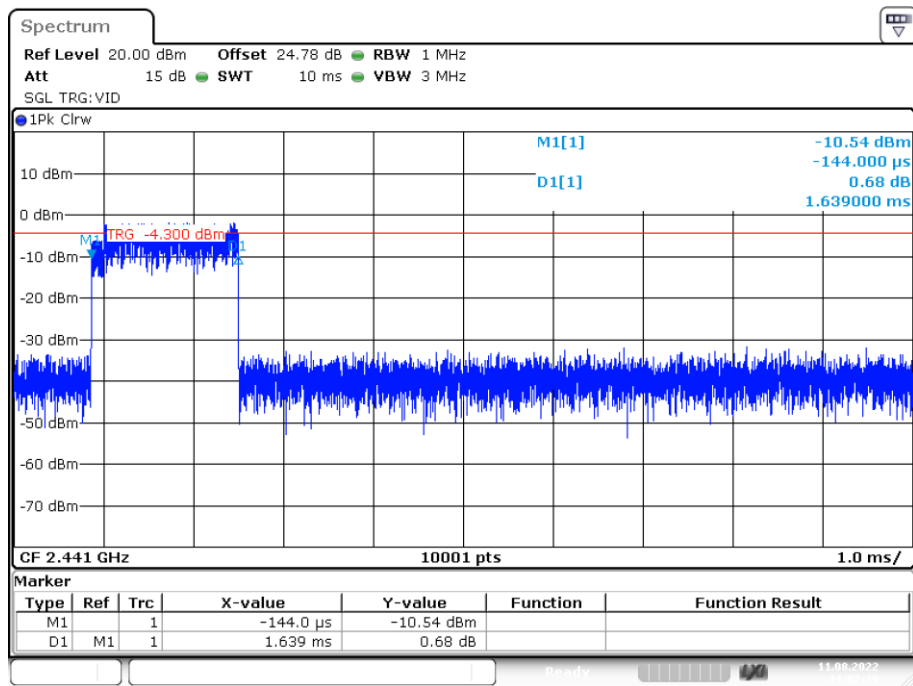
Date: 11.AUG.2022 10:51:16

Dwell NVNT 2-DH1 2480MHz Ant1 Accumulated



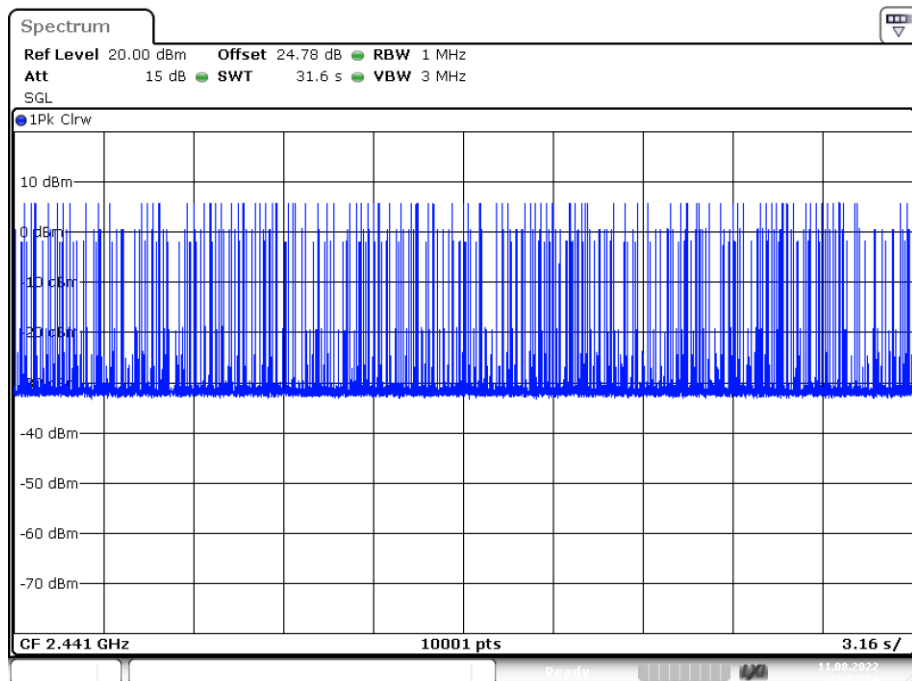
Date: 11.AUG.2022 10:51:51

Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



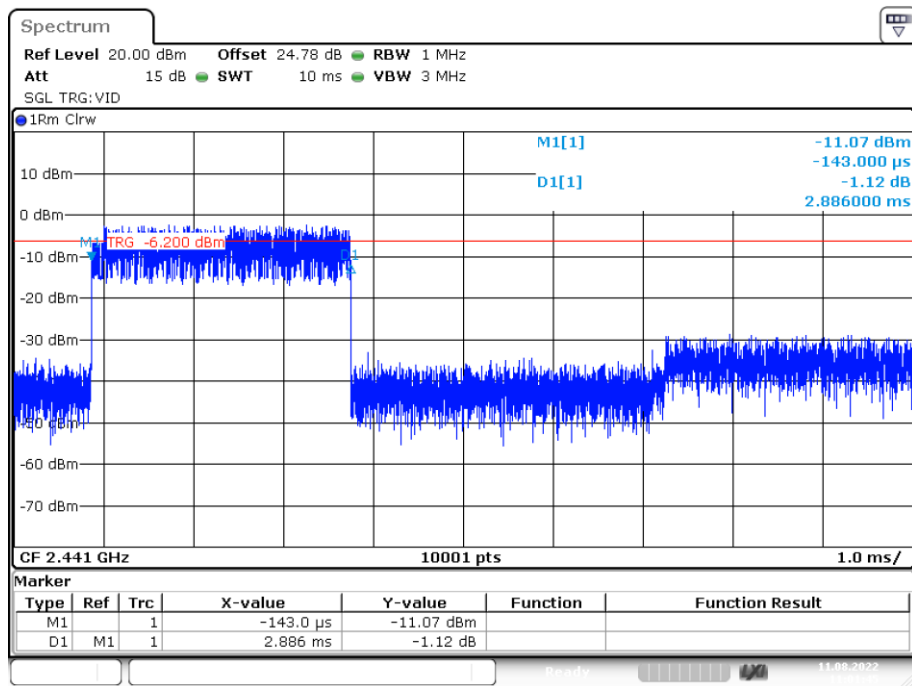
Date: 11.AUG.2022 11:02:39

Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



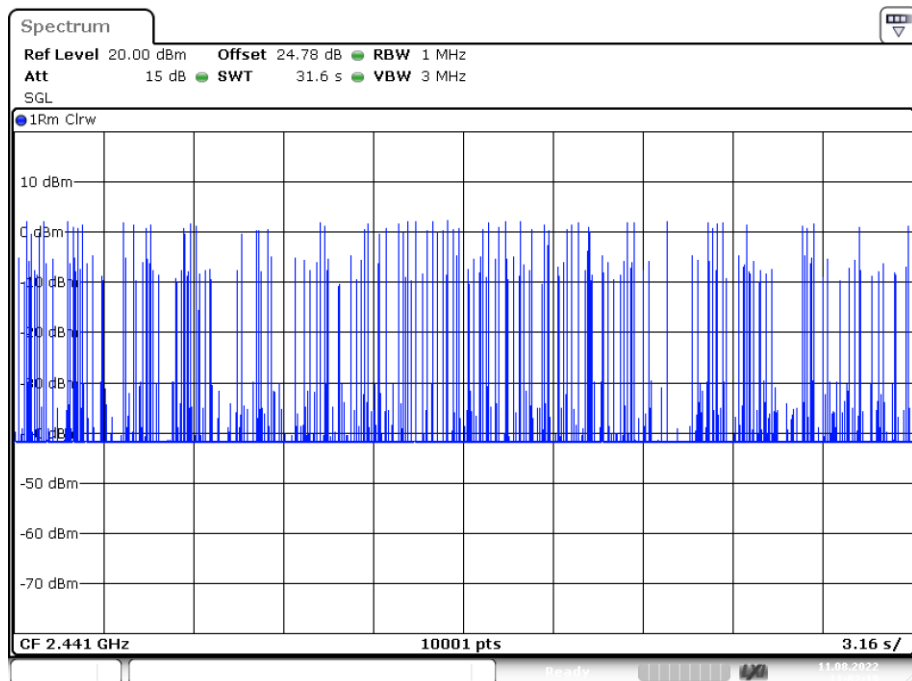
Date: 11.AUG.2022 11:03:14

Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



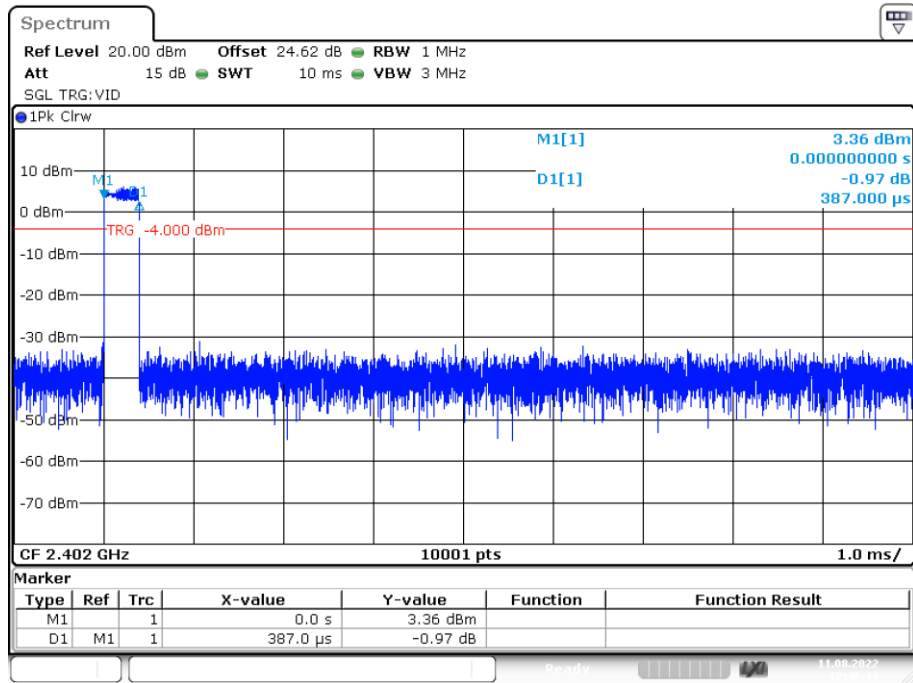
Date: 11.AUG.2022 11:01:44

Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



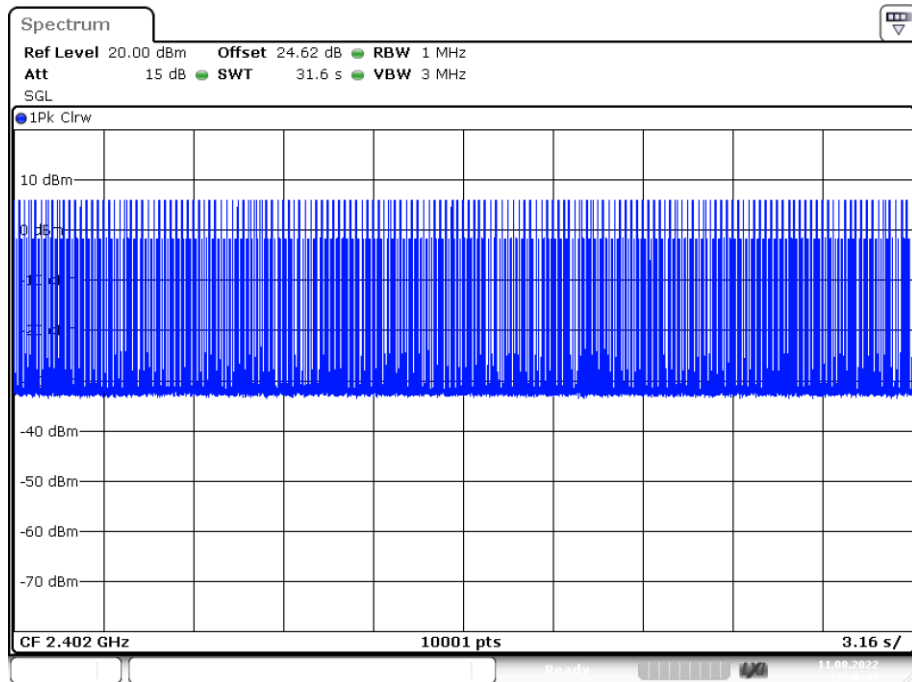
Date: 11.AUG.2022 11:02:19

Dwell NVNT 3-DH1 2402MHz Ant1 One Burst



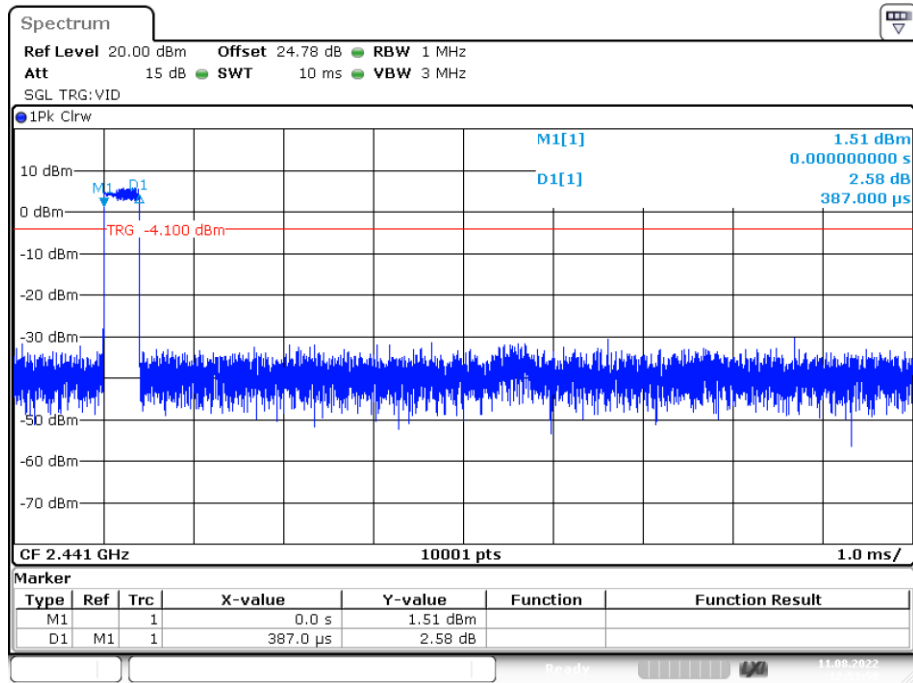
Date: 11.AUG.2022 12:46:10

Dwell NVNT 3-DH1 2402MHz Ant1 Accumulated



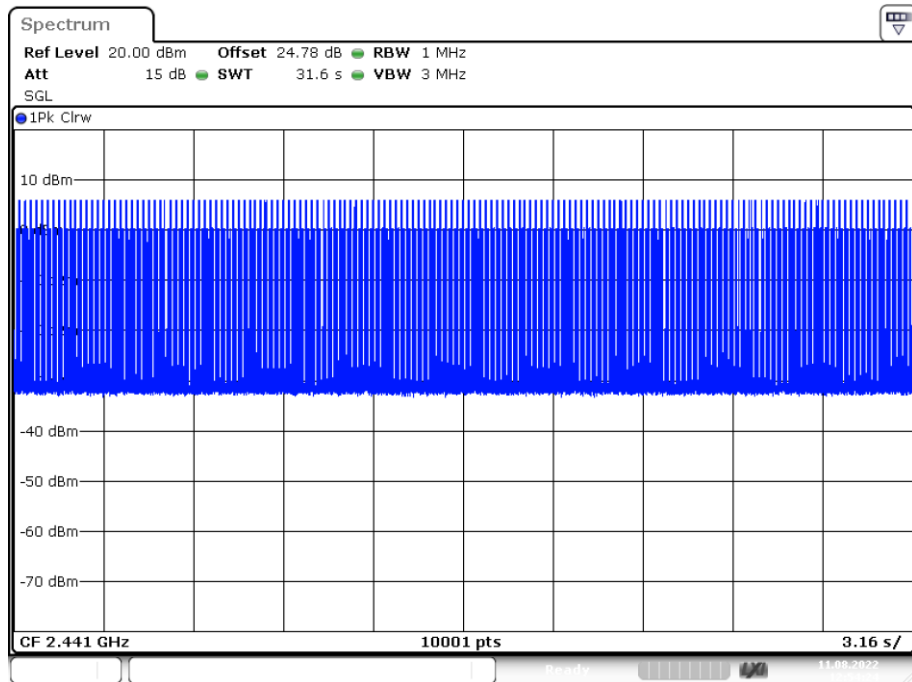
Date: 11.AUG.2022 12:46:45

Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



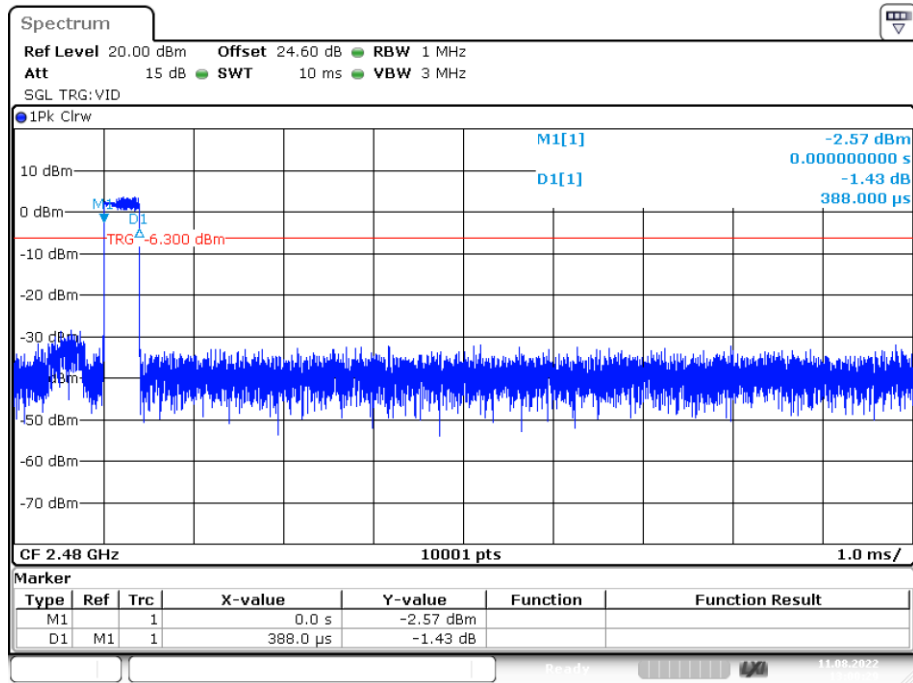
Date: 11.AUG.2022 12:53:49

Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



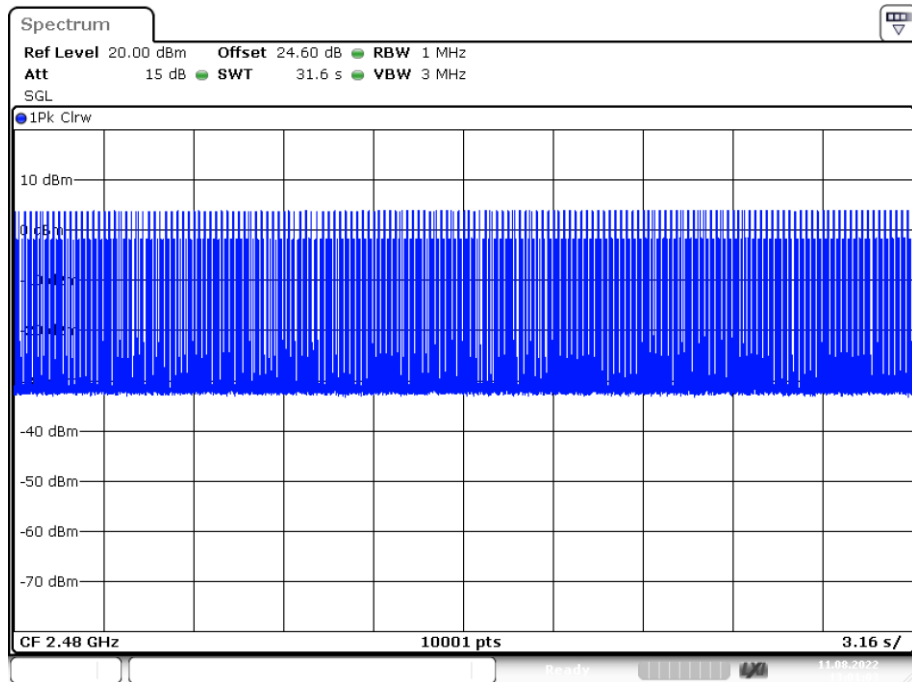
Date: 11.AUG.2022 12:54:24

Dwell NVNT 3-DH1 2480MHz Ant1 One Burst



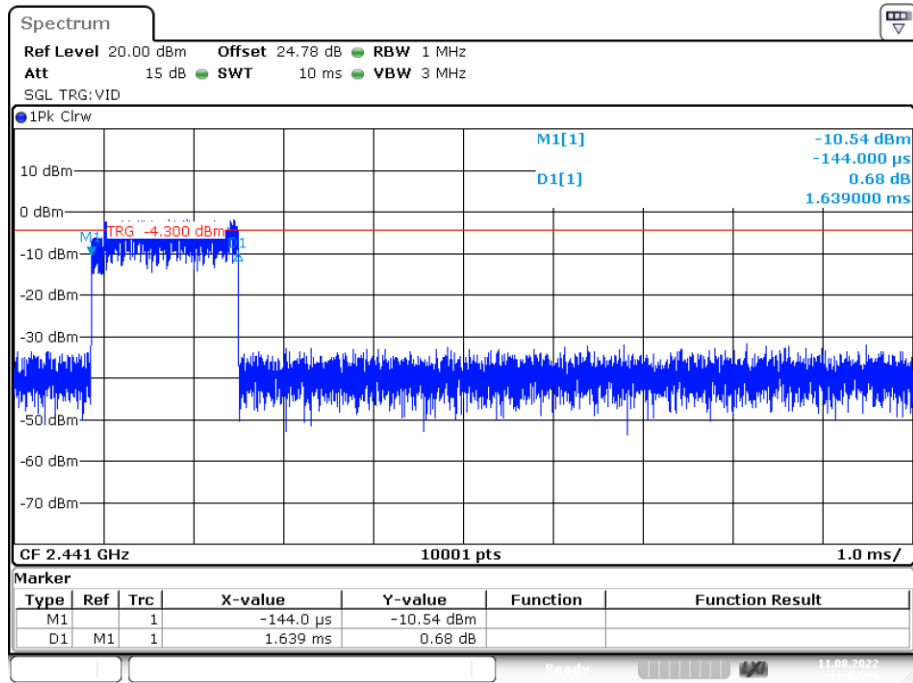
Date: 11.AUG.2022 13:00:29

Dwell NVNT 3-DH1 2480MHz Ant1 Accumulated



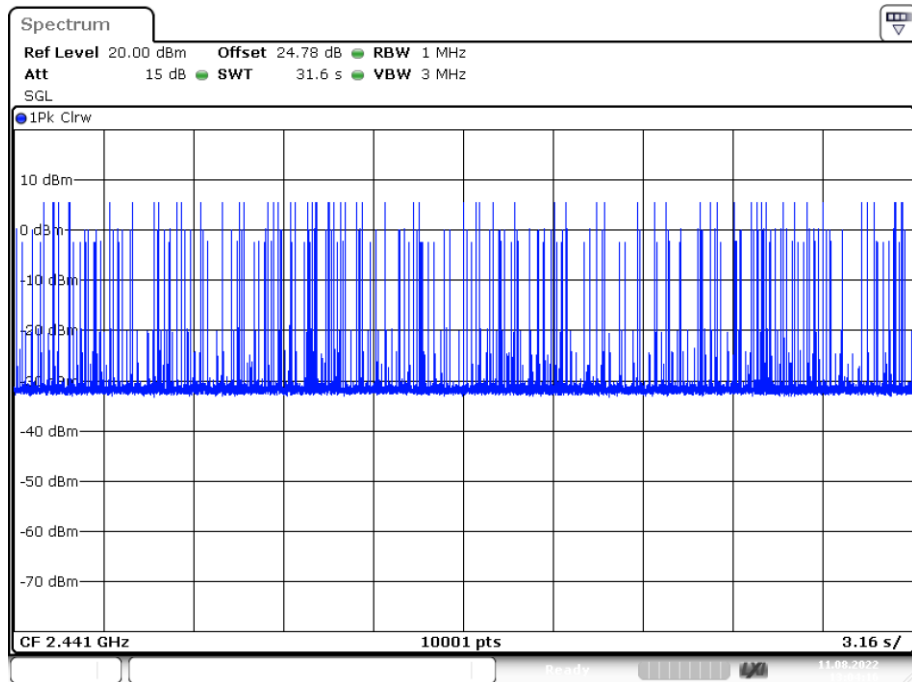
Date: 11.AUG.2022 13:01:03

Dwell NVNT 3-DH3 2441MHz Ant1 One Burst



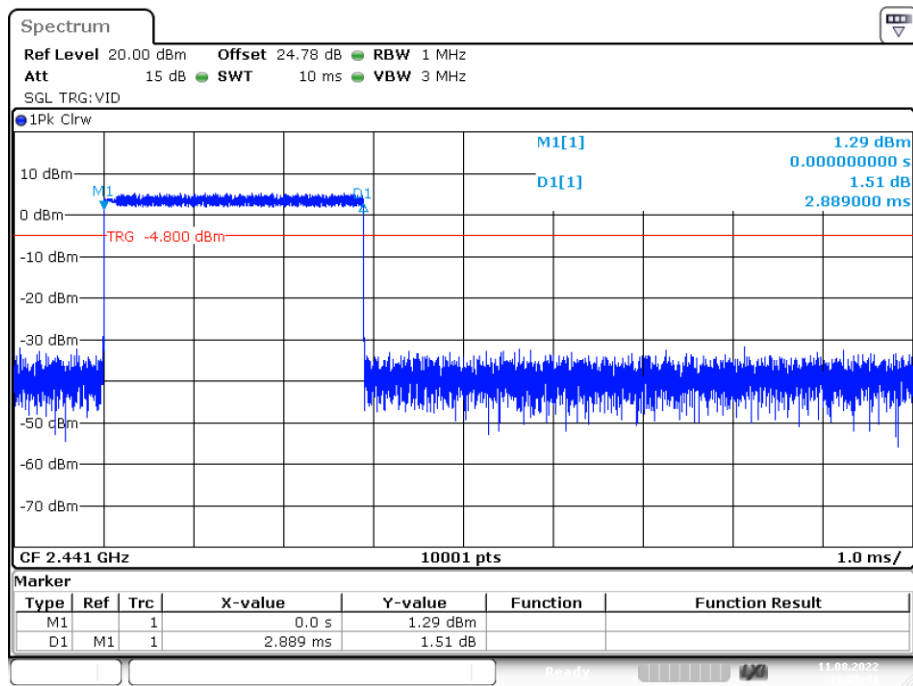
Date: 11.AUG.2022 11:02:39

Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



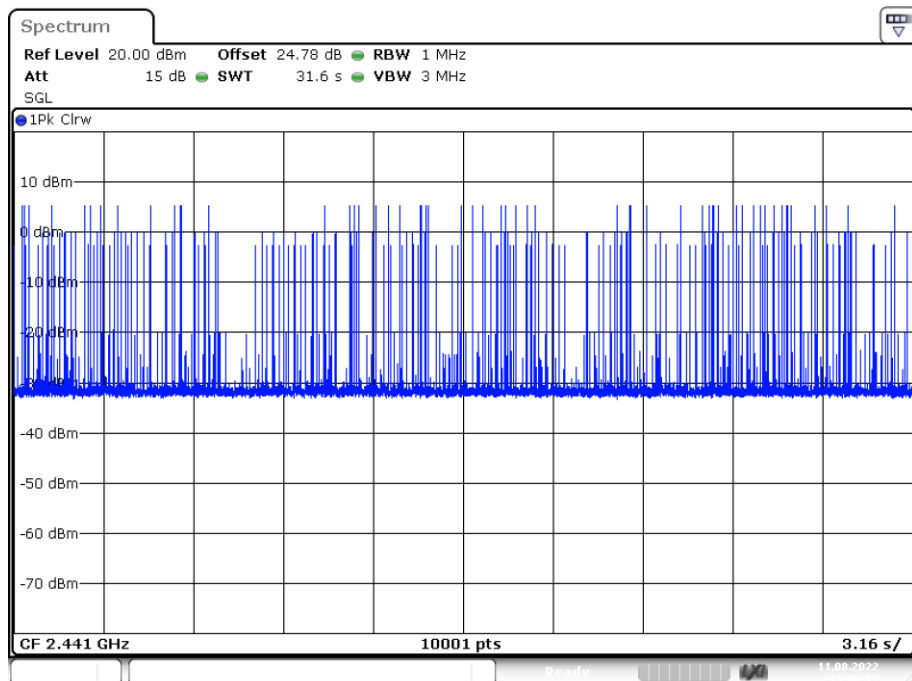
Date: 11.AUG.2022 13:04:16

Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Date: 11.AUG.2022 13:05:41

Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Date: 11.AUG.2022 13:06:15