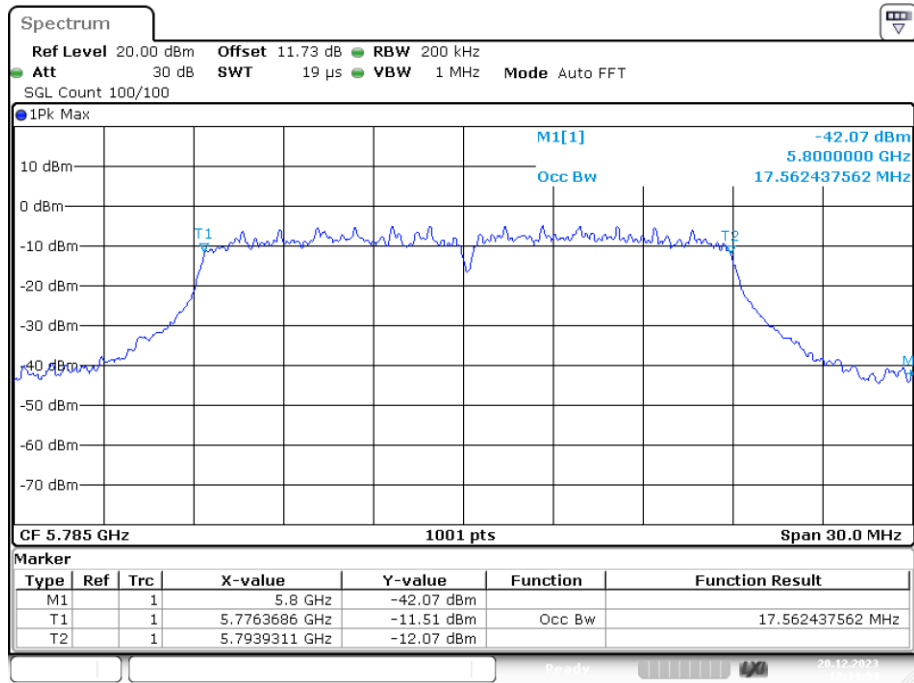
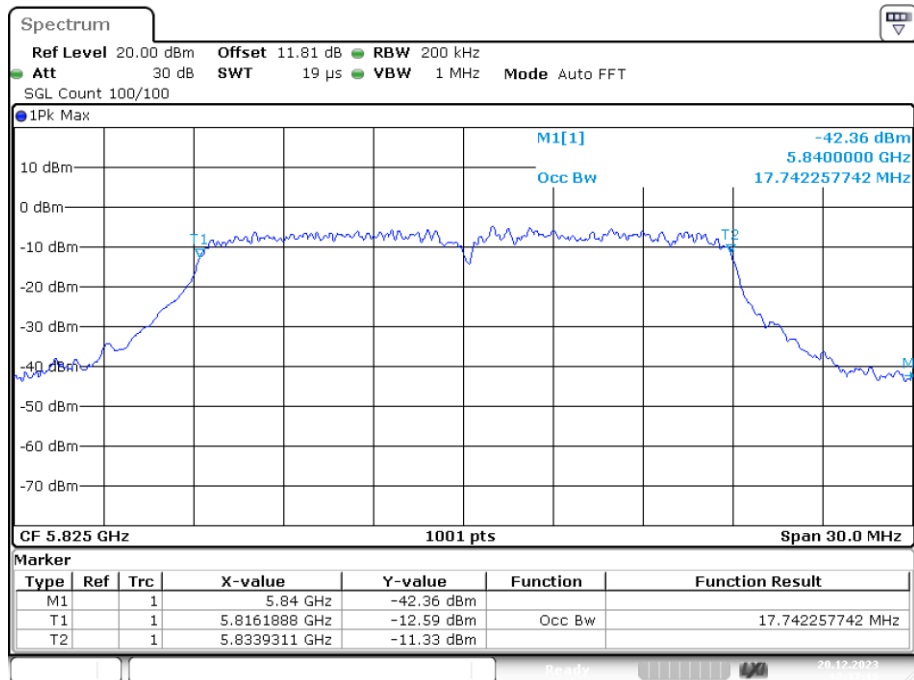


OBW NVNT n20 5785MHz Ant1



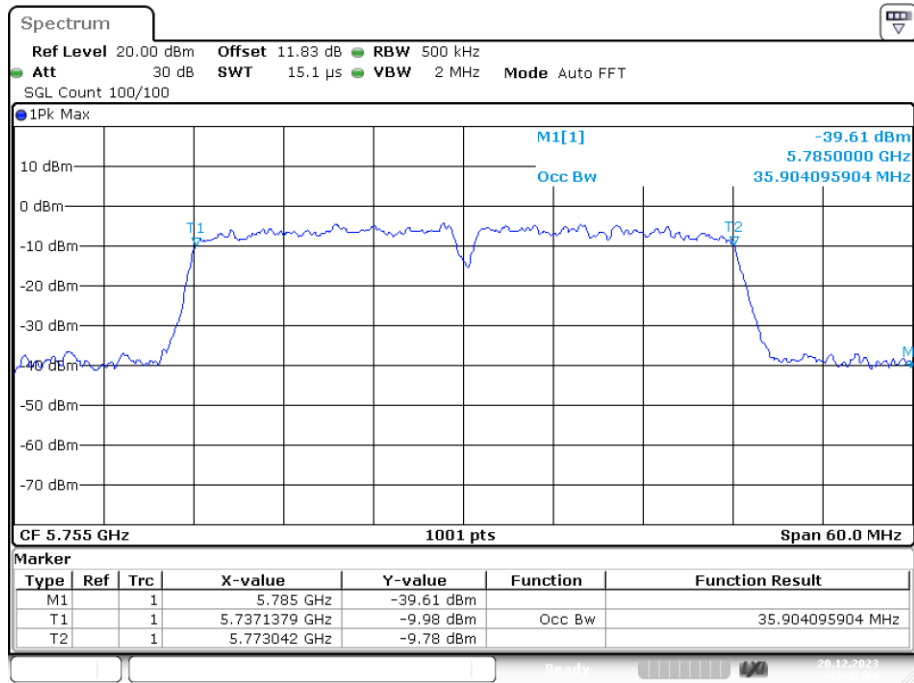
Date: 20.DEC.2023 12:34:04

OBW NVNT n20 5825MHz Ant1



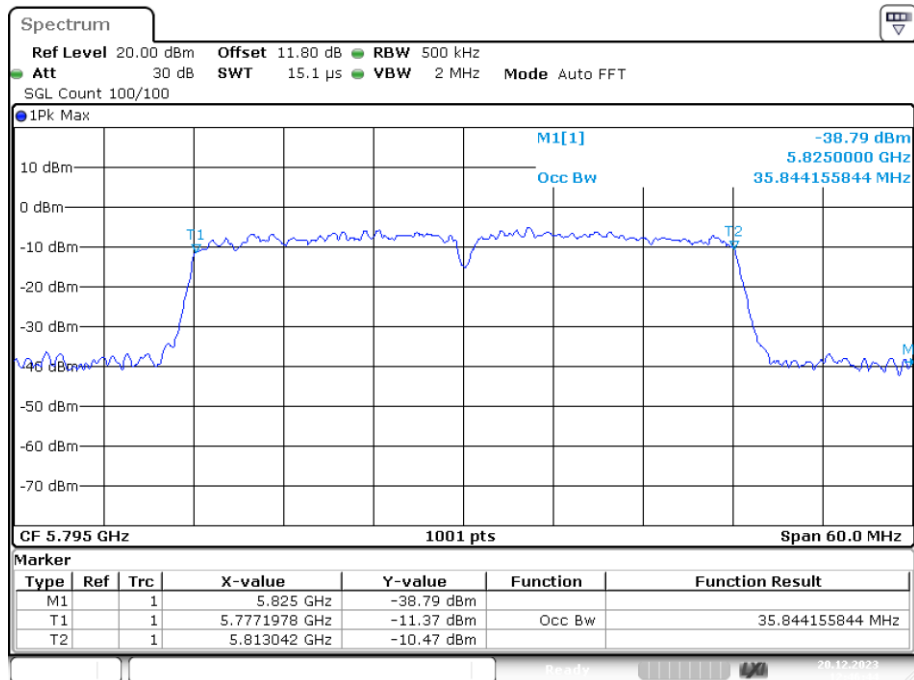
Date: 20.DEC.2023 12:37:17

OBW NVNT n40 5755MHz Ant1



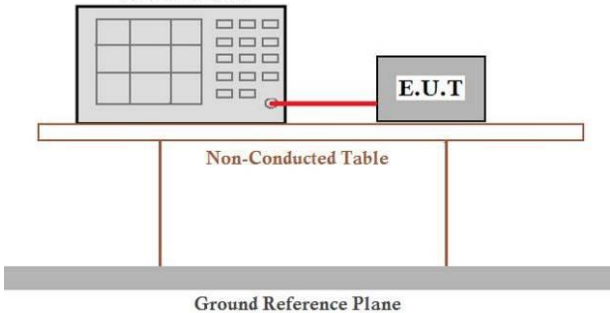
Date: 20.DEC.2023 12:42:09

OBW NVNT n40 5795MHz Ant1



Date: 20.DEC.2023 12:46:44

4.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2																		
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01																		
Limit:	FCC: For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, The maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W. IC: <table><tr><th>Section.</th><th>Test Item.</th><th>Limit.</th><th>FrequencyRange. (MHz).</th><th>Result.</th></tr><tr><td>6.2.1.1.</td><td rowspan="4">Peak Output Power.</td><td>200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.</td><td>5150-5250.</td><td rowspan="4">PASS.</td></tr><tr><td>6.2.2.1.</td><td rowspan="2">The lesser of 250 mW or $11 \text{ dBm} + 10 \log(26 \text{ dB emission bandwidth})$.</td><td>5250-5350.</td></tr><tr><td>6.2.3.1.</td><td>5470-5725.</td></tr><tr><td>6.2.4.1.</td><td>1 watt.</td><td>5725-5825.</td></tr></table>	Section.	Test Item.	Limit.	FrequencyRange. (MHz).	Result.	6.2.1.1.	Peak Output Power.	200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.	5150-5250.	PASS.	6.2.2.1.	The lesser of 250 mW or $11 \text{ dBm} + 10 \log(26 \text{ dB emission bandwidth})$.	5250-5350.	6.2.3.1.	5470-5725.	6.2.4.1.	1 watt.	5725-5825.
Section.	Test Item.	Limit.	FrequencyRange. (MHz).	Result.															
6.2.1.1.	Peak Output Power.	200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.	5150-5250.	PASS.															
6.2.2.1.		The lesser of 250 mW or $11 \text{ dBm} + 10 \log(26 \text{ dB emission bandwidth})$.	5250-5350.																
6.2.3.1.			5470-5725.																
6.2.4.1.		1 watt.	5725-5825.																
Test setup:	Power Meter  Non-Conducted Table Ground Reference Plane																		
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).																		
Test Instruments:	Refer to section 5.10 for details																		
Test mode:	Refer to section 5.3 for details																		
Test results:	Pass																		

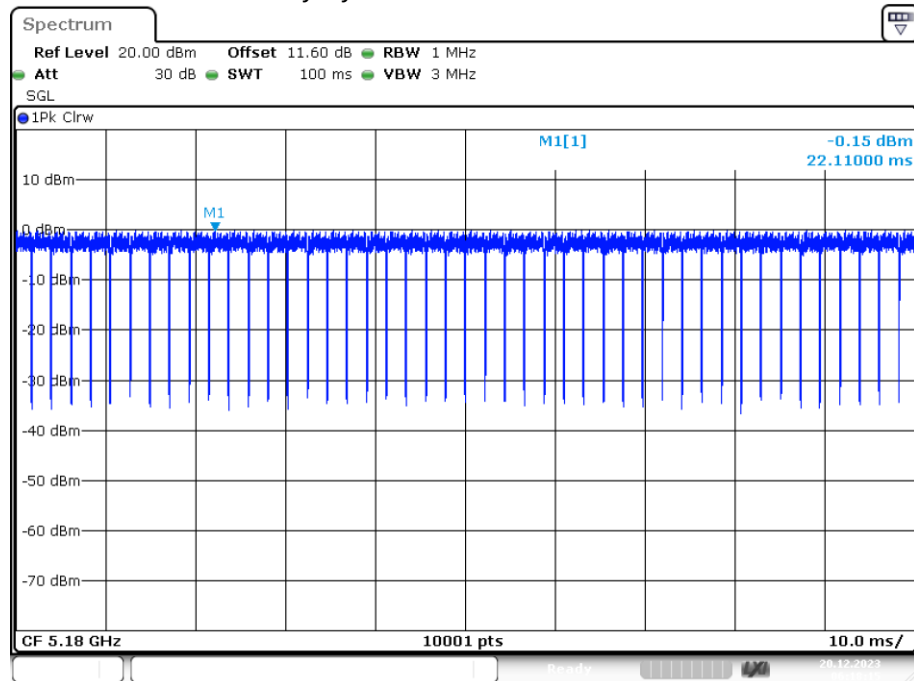
Measurement Data**Band 1 (5150-5250 MHz)**

Mode	Frequency (MHz)	Conducted Power (dBm)	Antenna gain(dBi)	E.i.r.p dBm)	FCC Limit (dBm)	IC Limit (dBm)	Verdict
a	5180	11.114	2.64	13.754	24	23.01	Pass
a	5200	10.745	2.64	13.385	24	23.01	Pass
a	5240	12.03	2.64	14.67	24	23.01	Pass
n20	5180	10.977	2.64	13.617	24	23.01	Pass
n20	5200	11.486	2.64	14.126	24	23.01	Pass
n20	5240	11.811	2.64	14.451	24	23.01	Pass
n40	5190	11.259	2.64	13.899	24	23.01	Pass
n40	5230	11.985	2.64	14.625	24	23.01	Pass

Duty Cycle

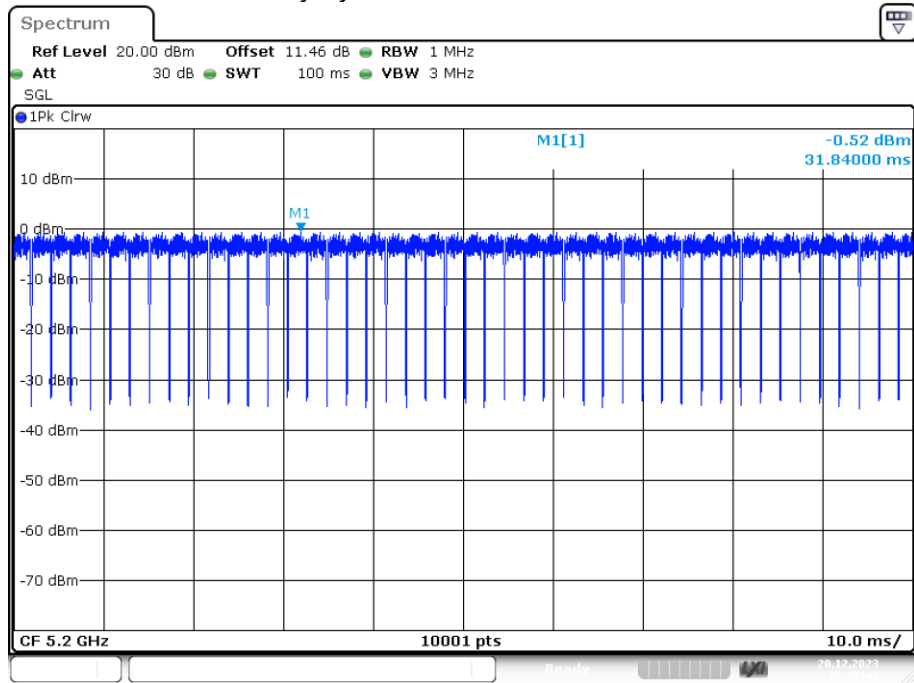
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)
NVNT	a	5180	Ant1	100
NVNT	a	5200	Ant1	100
NVNT	a	5240	Ant1	100
NVNT	n20	5180	Ant1	100
NVNT	n20	5200	Ant1	100
NVNT	n20	5240	Ant1	100
NVNT	n40	5190	Ant1	100
NVNT	n40	5230	Ant1	100

Duty Cycle NVNT a 5180MHz Ant1



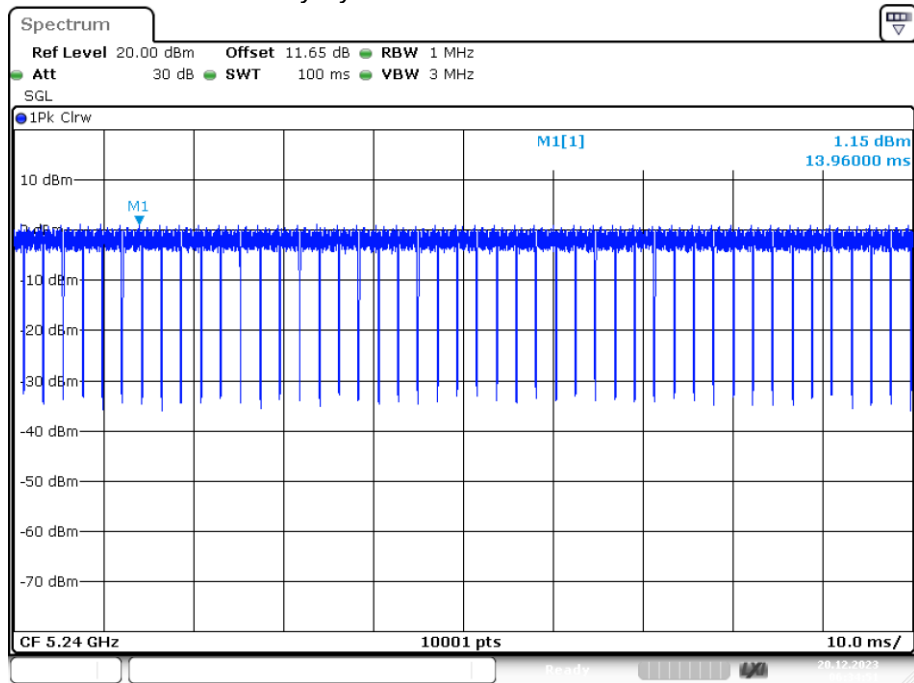
Date: 20.DEC.2023 06:18:15

Duty Cycle NVNT a 5200MHz Ant1



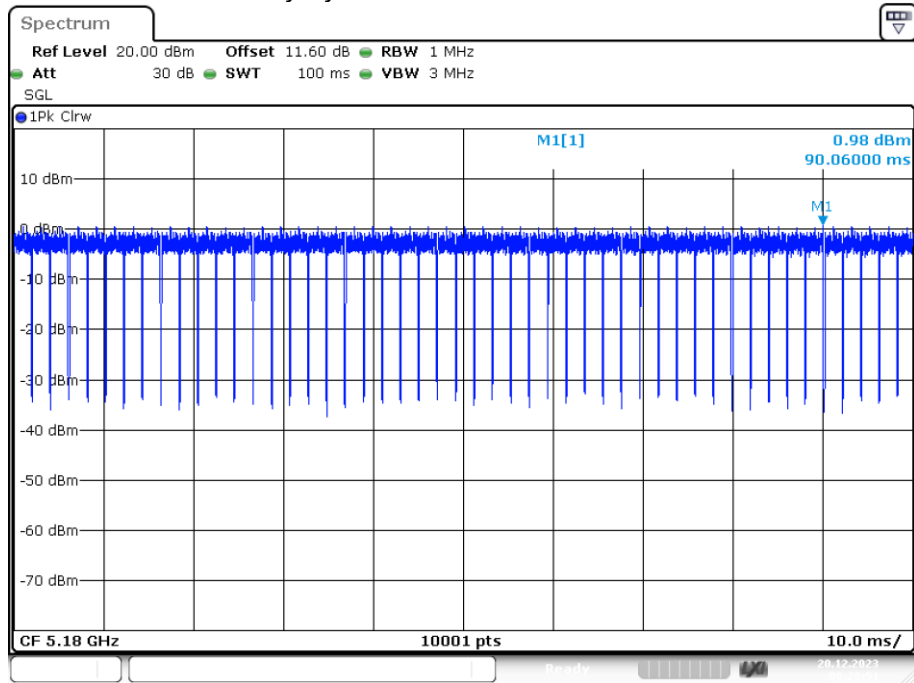
Date: 20.DEC.2023 06:27:48

Duty Cycle NVNT a 5240MHz Ant1



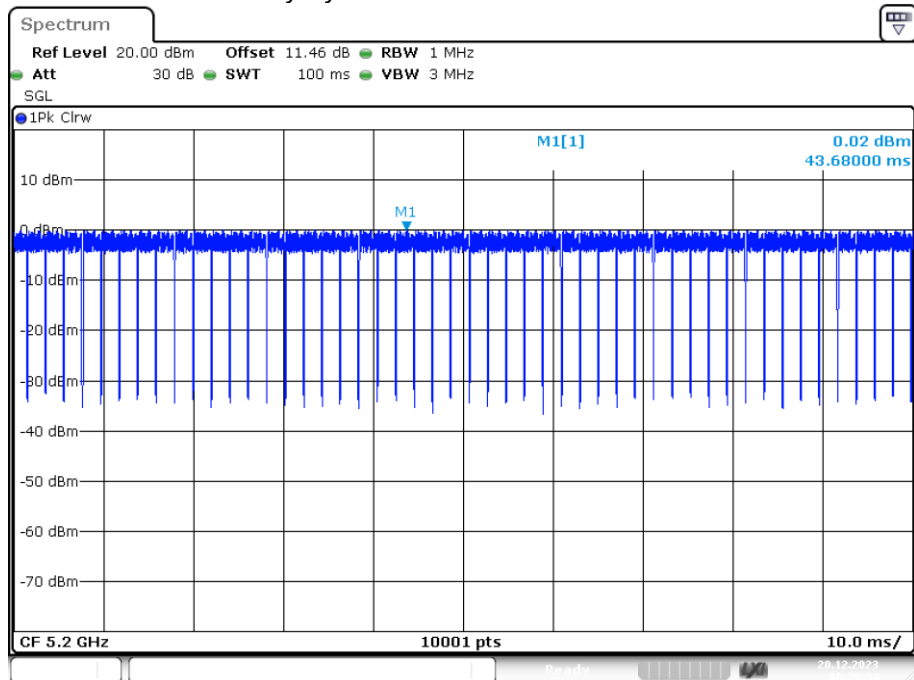
Date: 20.DEC.2023 06:34:51

Duty Cycle NVNT n20 5180MHz Ant1



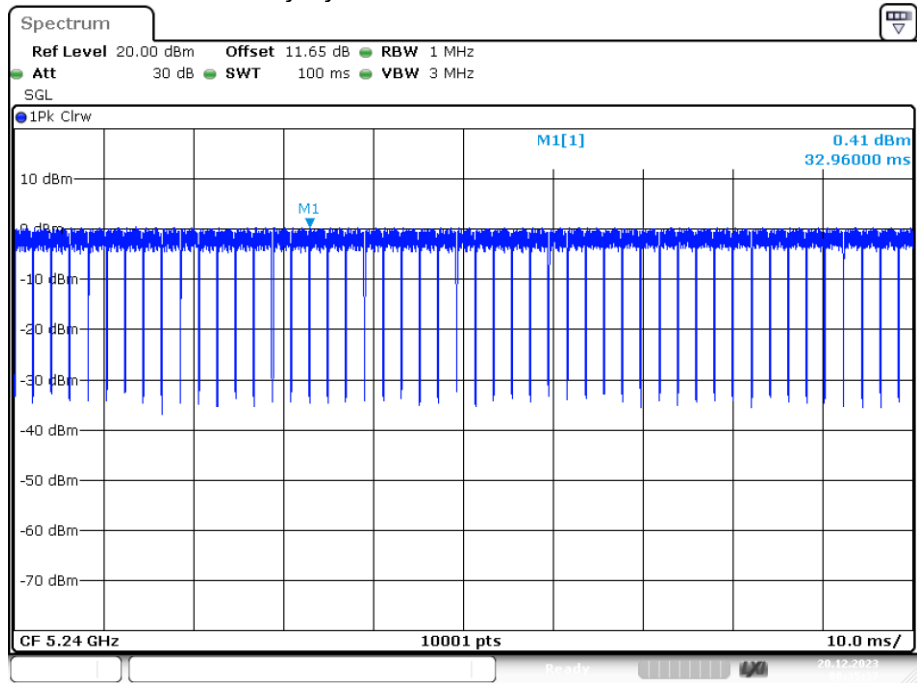
Date: 20.DEC.2023 08:23:51

Duty Cycle NVNT n20 5200MHz Ant1



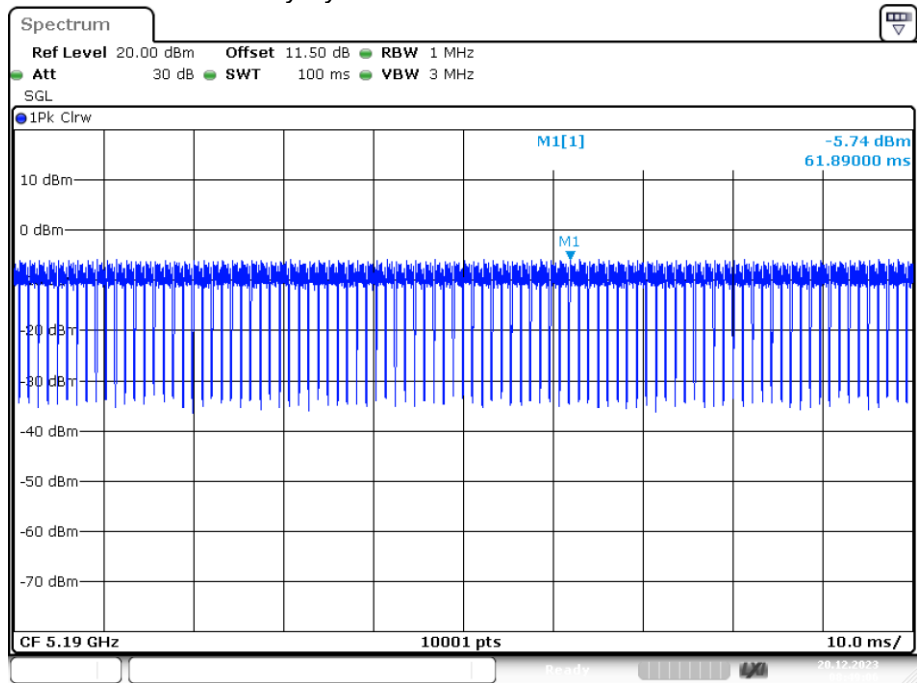
Date: 20.DEC.2023 08:29:34

Duty Cycle NVNT n20 5240MHz Ant1



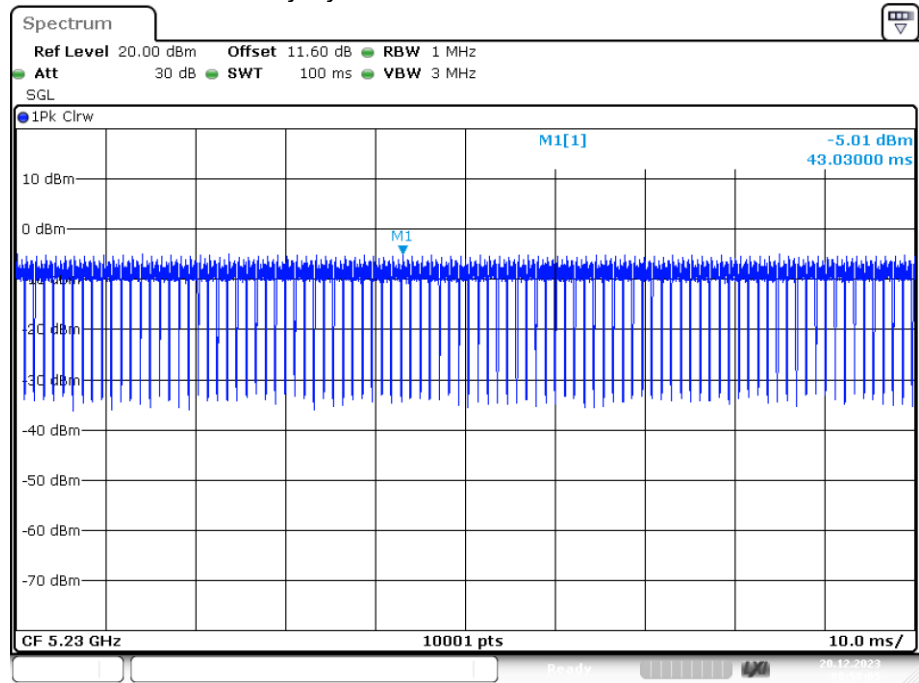
Date: 20.DEC.2023 08:35:37

Duty Cycle NVNT n40 5190MHz Ant1



Date: 20.DEC.2023 08:49:06

Duty Cycle NVNT n40 5230MHz Ant1



Date: 20.DEC.2023 08:58:05

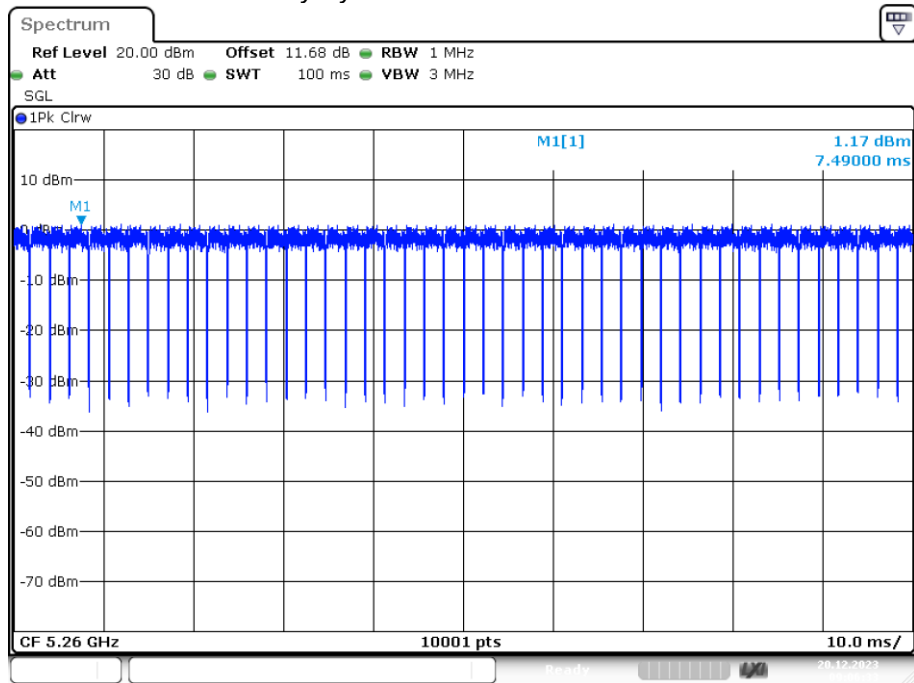
Band 2 (5250 -5350 MHz)

Mode	Frequency (MHz)	Conducted Power (dBm)	Antenna gain(dBi)	E.i.r.p dBm)	Limit (dBm)	Verdict
a	5260	12.203	2.64	14.843	24	Pass
a	5280	11.256	2.64	13.896	24	Pass
a	5320	11.076	2.64	13.716	24	Pass
n20	5260	11.994	2.64	14.634	24	Pass
n20	5280	12.758	2.64	15.398	24	Pass
n20	5320	11.464	2.64	14.104	24	Pass
n40	5270	12.63	2.64	15.27	24	Pass
n40	5310	10.796	2.64	13.436	24	Pass

Duty Cycle

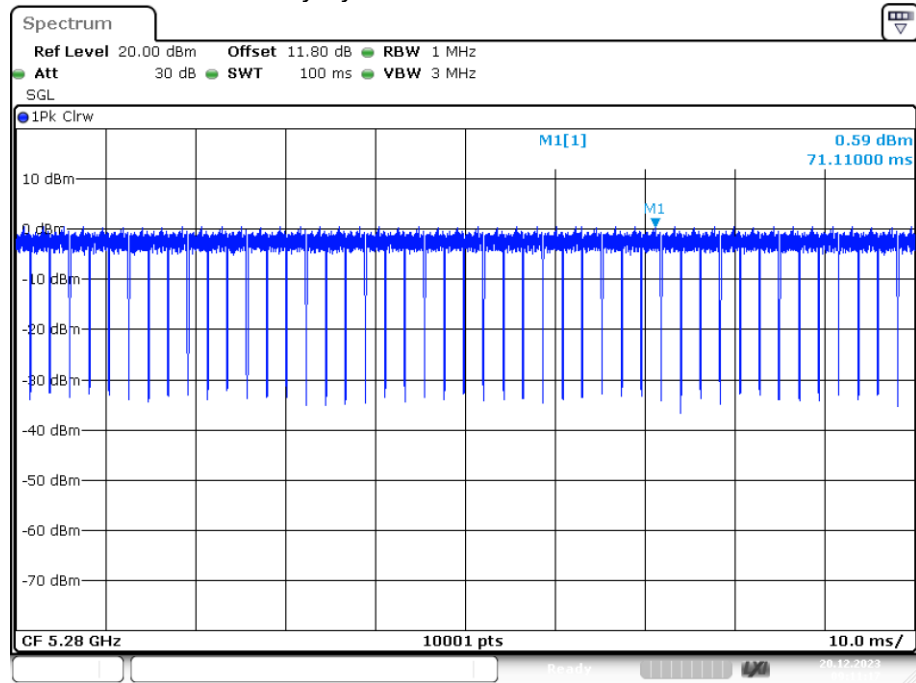
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)
NVNT	a	5260	Ant1	100
NVNT	a	5280	Ant1	100
NVNT	a	5320	Ant1	100
NVNT	n20	5260	Ant1	100
NVNT	n20	5280	Ant1	100
NVNT	n20	5320	Ant1	100
NVNT	n40	5270	Ant1	100
NVNT	n40	5310	Ant1	100

Duty Cycle NVNT a 5260MHz Ant1



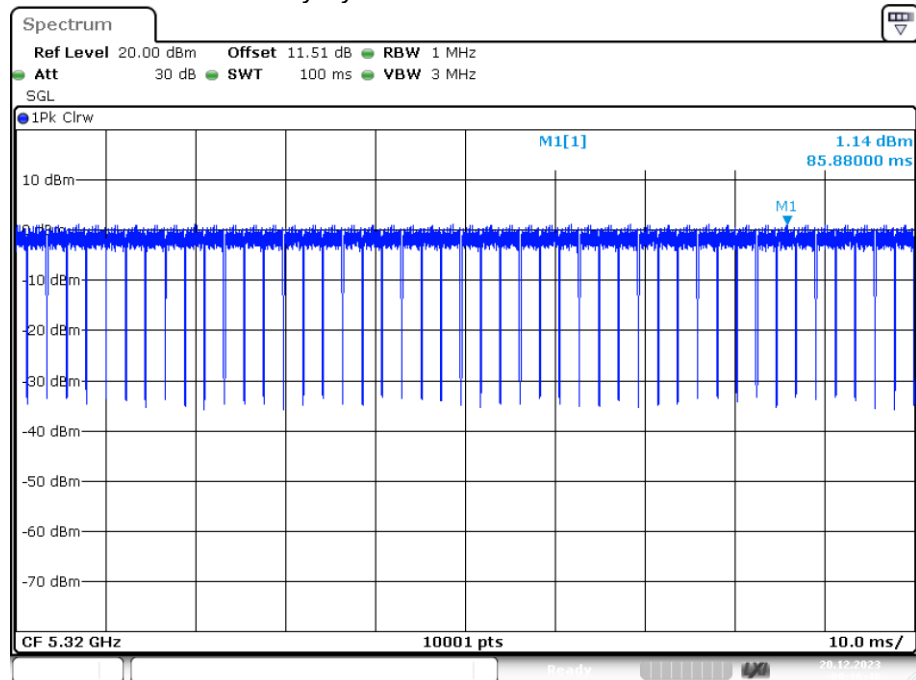
Date: 20.DEC.2023 09:06:33

Duty Cycle NVNT a 5280MHz Ant1



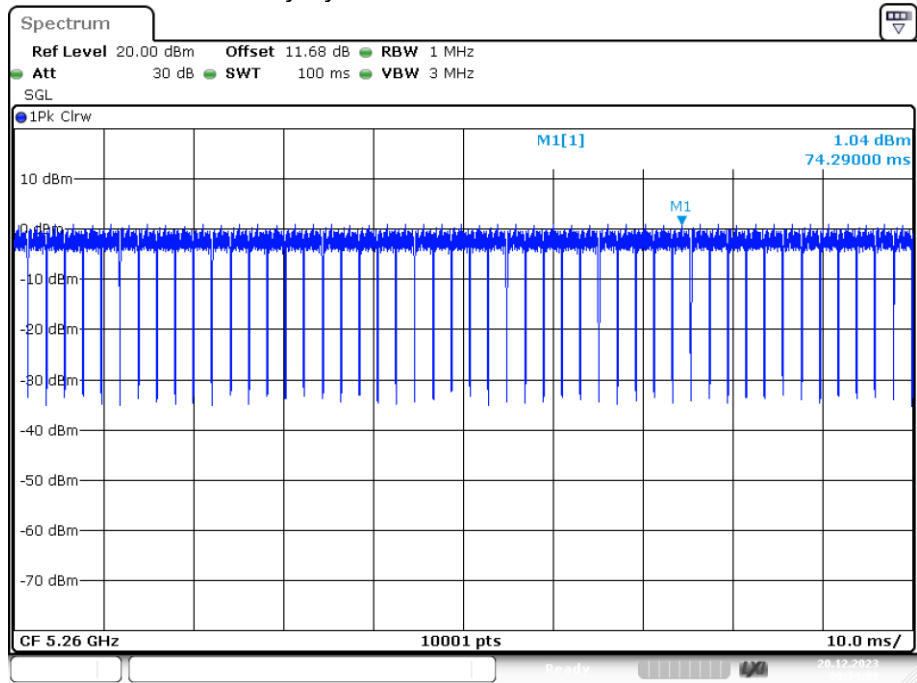
Date: 20.DEC.2023 09:11:16

Duty Cycle NVNT a 5320MHz Ant1



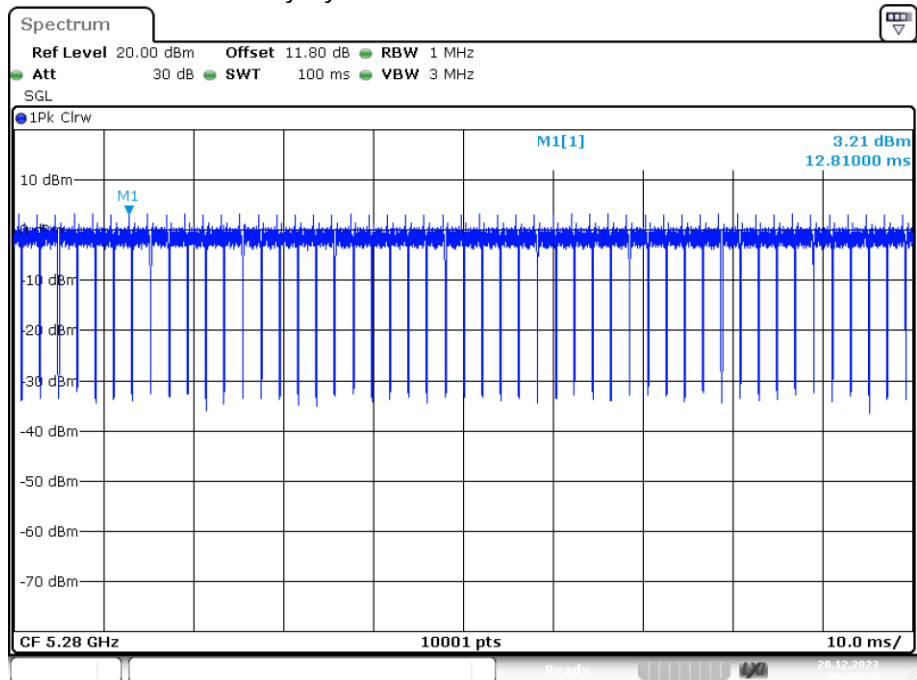
Date: 20.DEC.2023 09:16:48

Duty Cycle NVNT n20 5260MHz Ant1



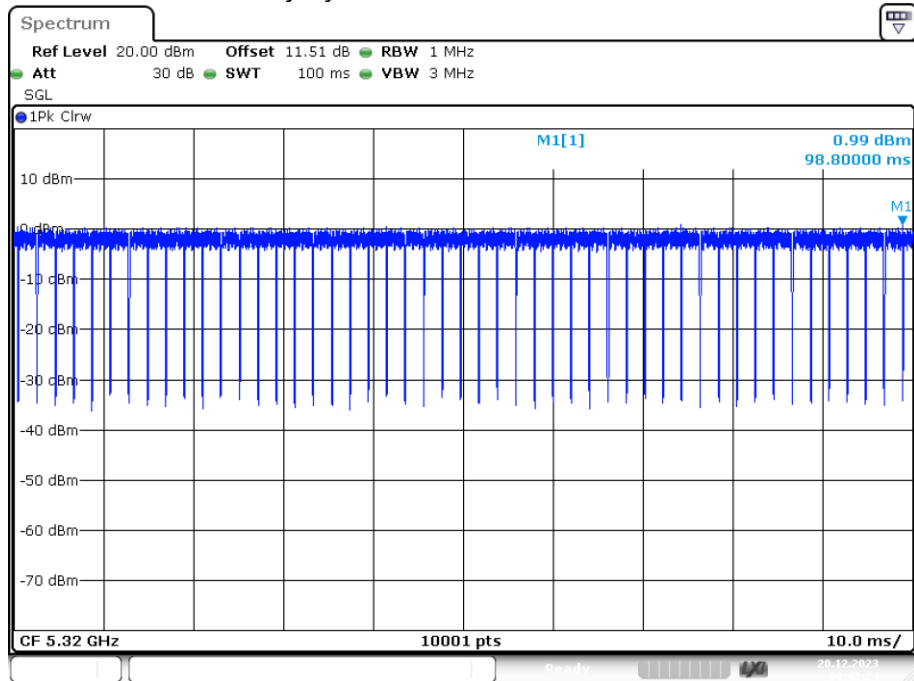
Date: 20.DEC.2023 09:34:08

Duty Cycle NVNT n20 5280MHz Ant1



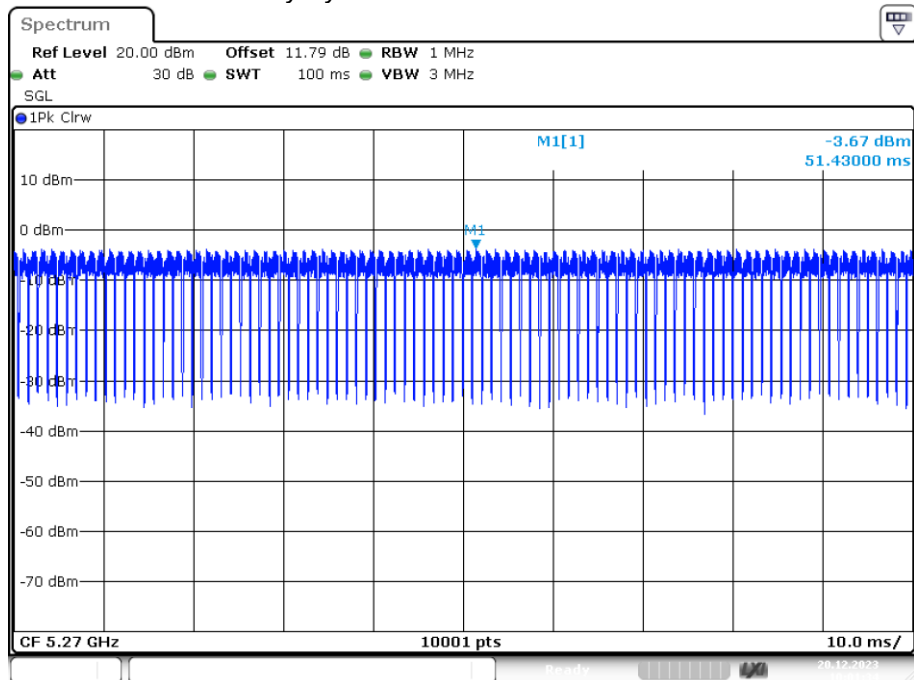
Date: 20.DEC.2023 09:38:36

Duty Cycle NVNT n20 5320MHz Ant1



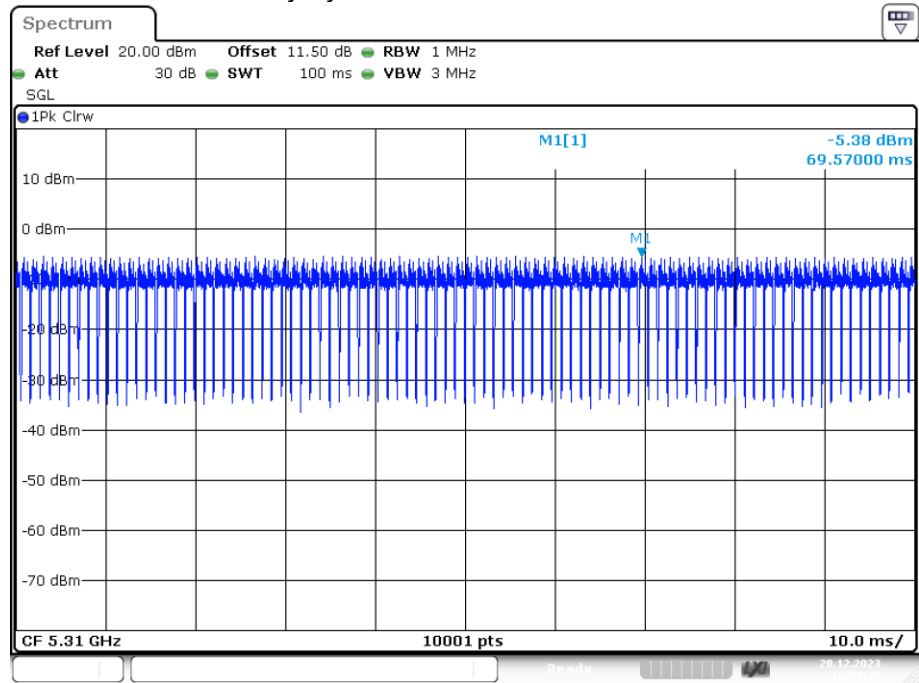
Date: 20.DEC.2023 09:42:24

Duty Cycle NVNT n40 5270MHz Ant1



Date: 20.DEC.2023 10:01:34

Duty Cycle NVNT n40 5310MHz Ant1



Date: 20.DEC.2023 10:33:32

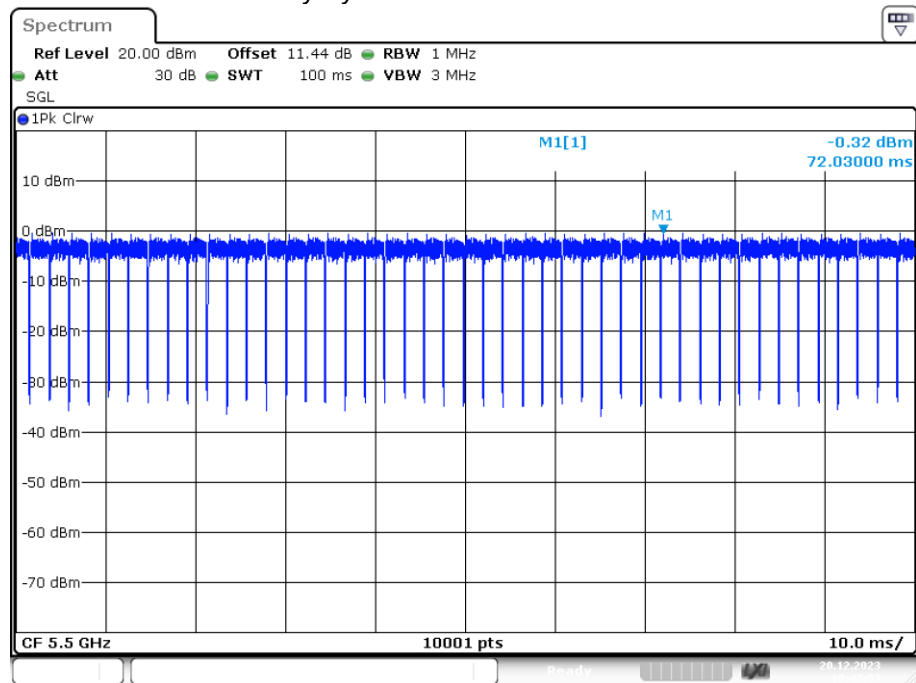
Band 3 (5470-5725 MHz)

Mode	Frequency (MHz)	Conducted Power (dBm)	Antenna gain(dBi)	E.i.r.p dBm)	Limit (dBm)	Verdict
a	5500	10.658	2.64	13.298	24	Pass
a	5580	10.759	2.64	13.399	24	Pass
a	5700	10.875	2.64	13.515	24	Pass
n20	5500	11.688	2.64	14.328	24	Pass
n20	5580	11.669	2.64	14.309	24	Pass
n20	5700	11.038	2.64	13.678	24	Pass
n40	5510	11.897	2.64	14.537	24	Pass
n40	5670	11.275	2.64	13.915	24	Pass

Duty Cycle

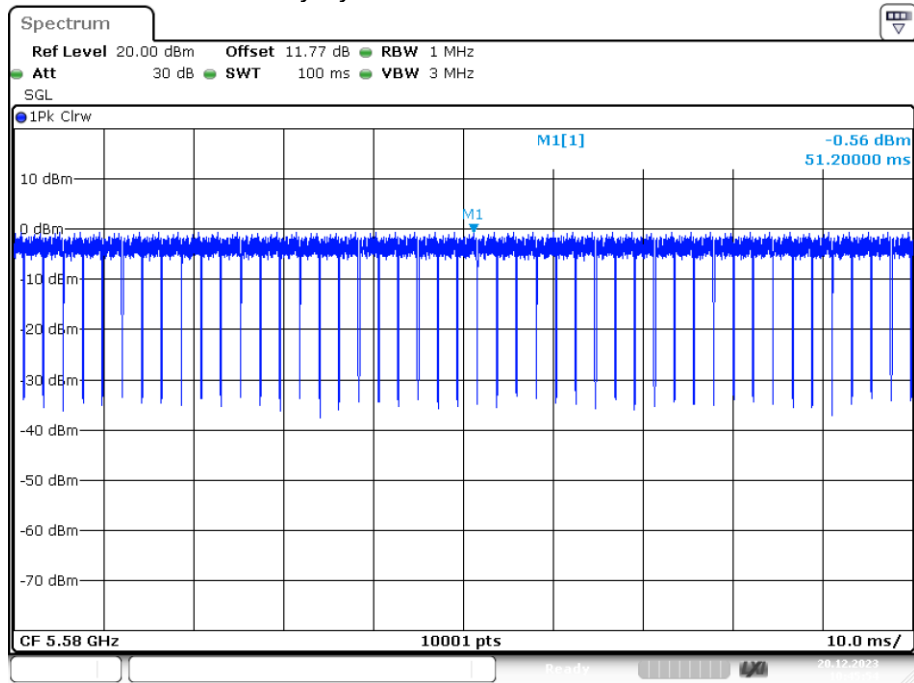
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)
NVNT	a	5500	Ant1	100
NVNT	a	5580	Ant1	100
NVNT	a	5700	Ant1	100
NVNT	n20	5500	Ant1	100
NVNT	n20	5580	Ant1	100
NVNT	n20	5700	Ant1	100
NVNT	n40	5510	Ant1	100
NVNT	n40	5670	Ant1	100

Duty Cycle NVNT a 5500MHz Ant1



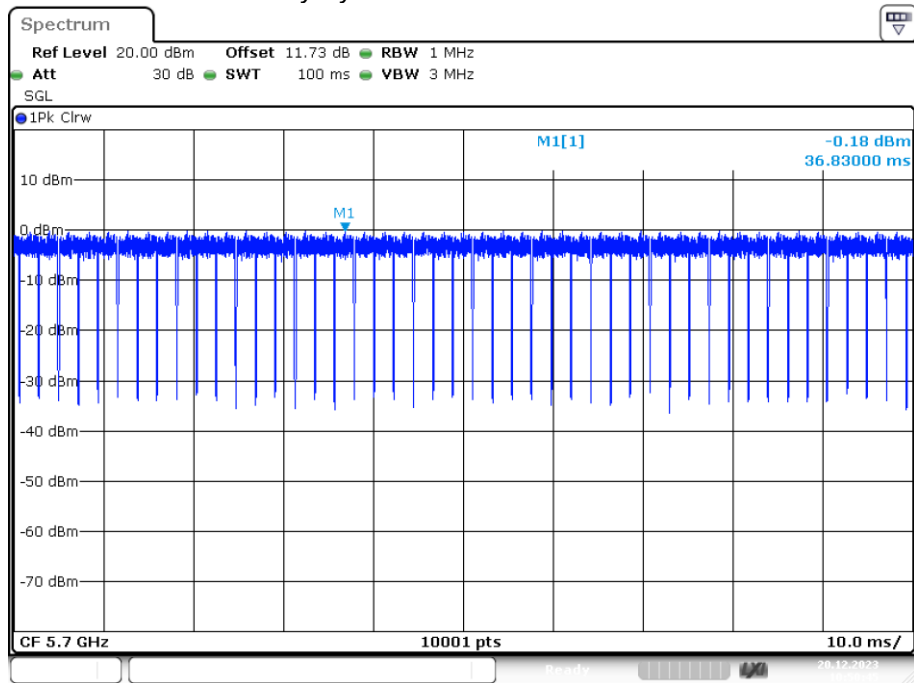
Date: 20.DEC.2023 10:42:54

Duty Cycle NVNT a 5580MHz Ant1



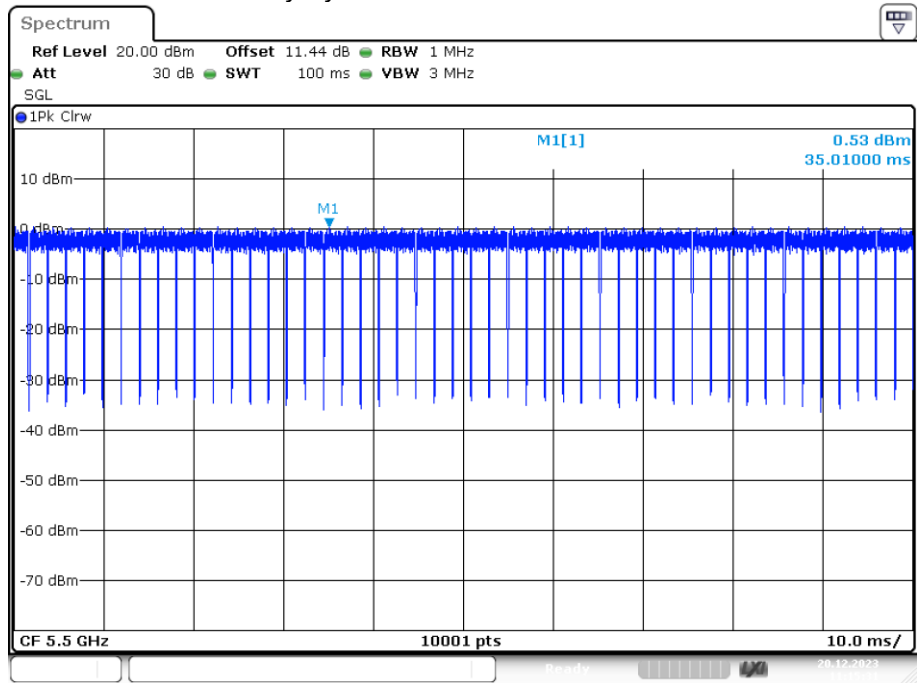
Date: 20.DEC.2023 10:45:54

Duty Cycle NVNT a 5700MHz Ant1



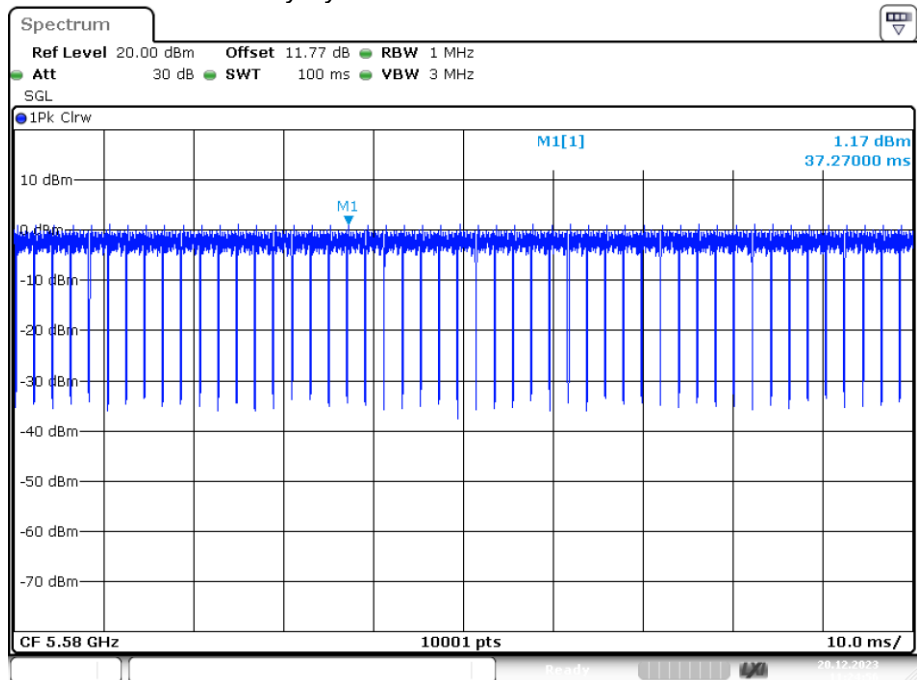
Date: 20.DEC.2023 10:50:45

Duty Cycle NVNT n20 5500MHz Ant1



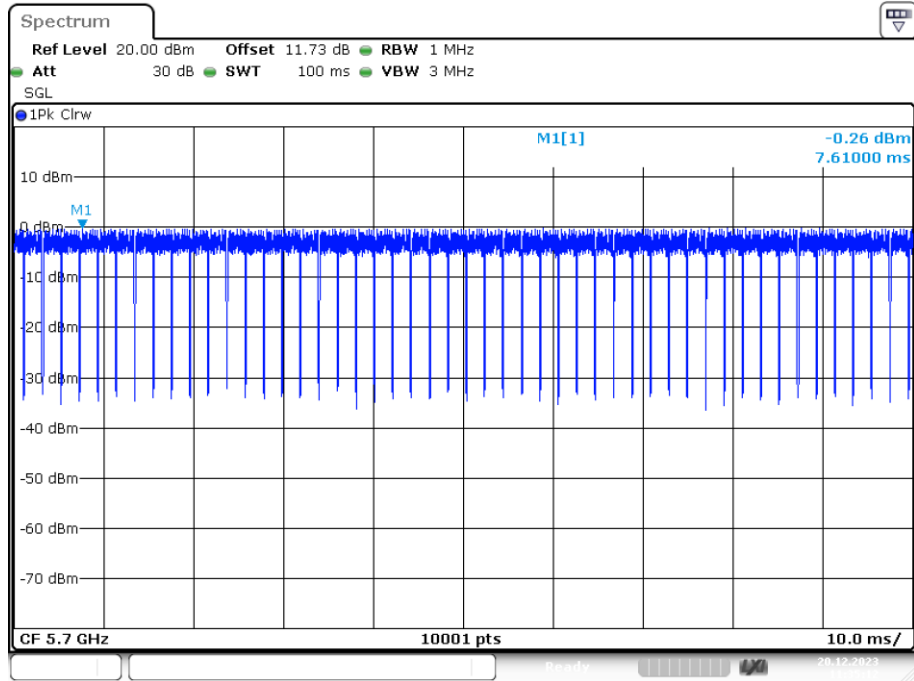
Date: 20.DEC.2023 11:15:31

Duty Cycle NVNT n20 5580MHz Ant1



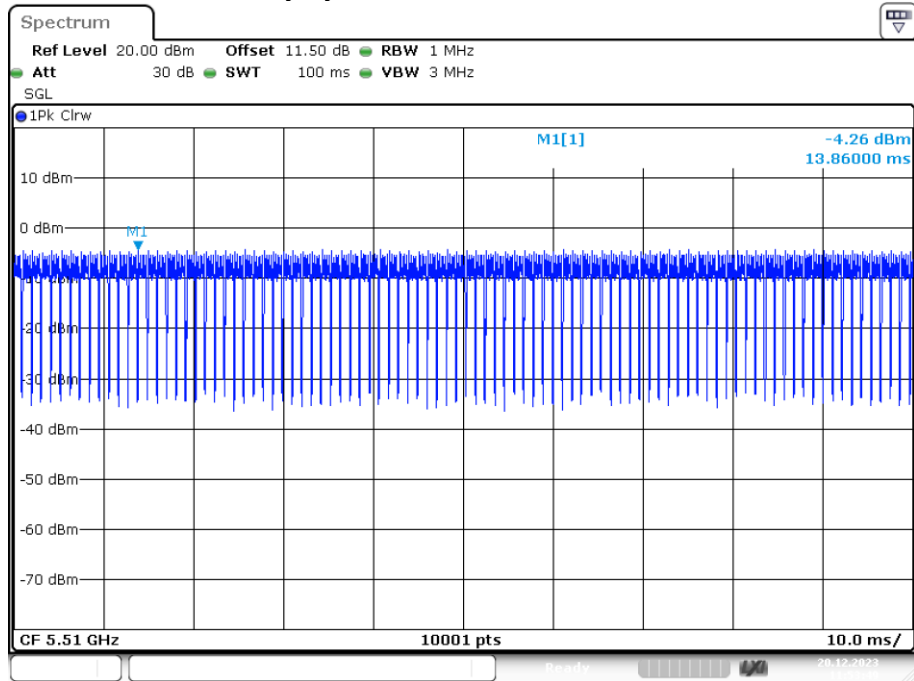
Date: 20.DEC.2023 11:24:56

Duty Cycle NVNT n20 5700MHz Ant1



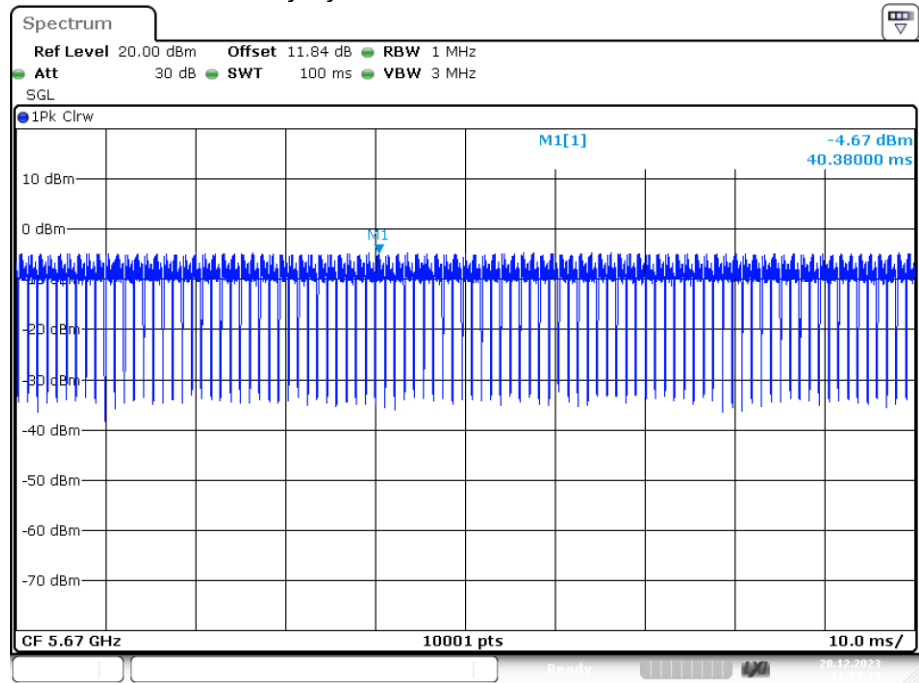
Date: 20.DEC.2023 11:35:12

Duty Cycle NVNT n40 5510MHz Ant1



Date: 20.DEC.2023 11:53:49

Duty Cycle NVNT n40 5670MHz Ant1



Date: 20.DEC.2023 11:59:16

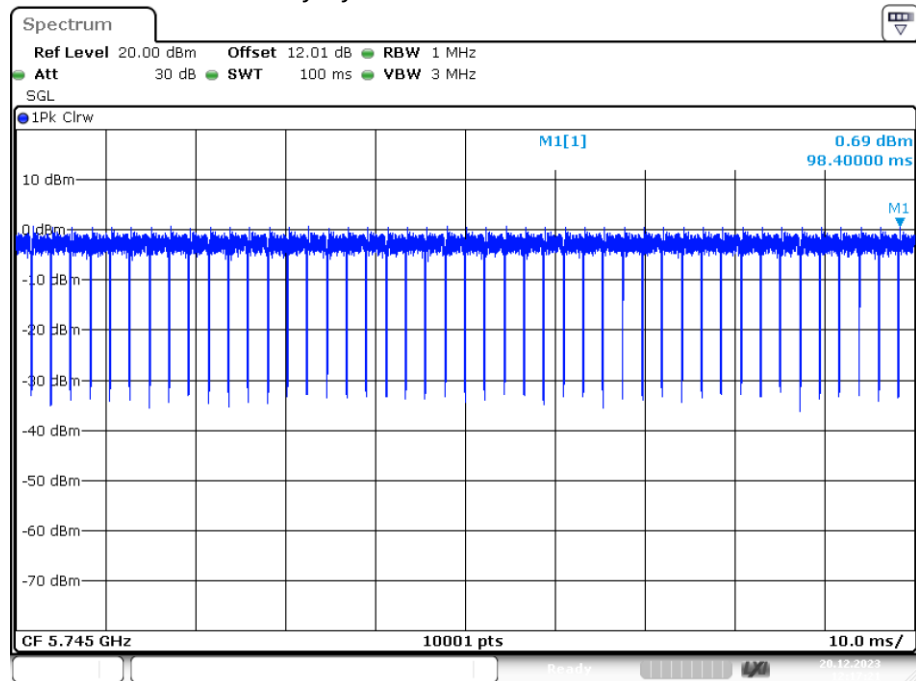
Band 4 (5725 - 5850)

Mode	Frequency (MHz)	Antenna gain(dBi)	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	2.64	10.764	30	Pass
a	5785	2.64	10.686	30	Pass
a	5825	2.64	11.13	30	Pass
n20	5745	2.64	11.065	30	Pass
n20	5785	2.64	10.953	30	Pass
n20	5825	2.64	11.154	30	Pass
n40	5755	2.64	10.839	30	Pass
n40	5795	2.64	10.567	30	Pass

Duty Cycle

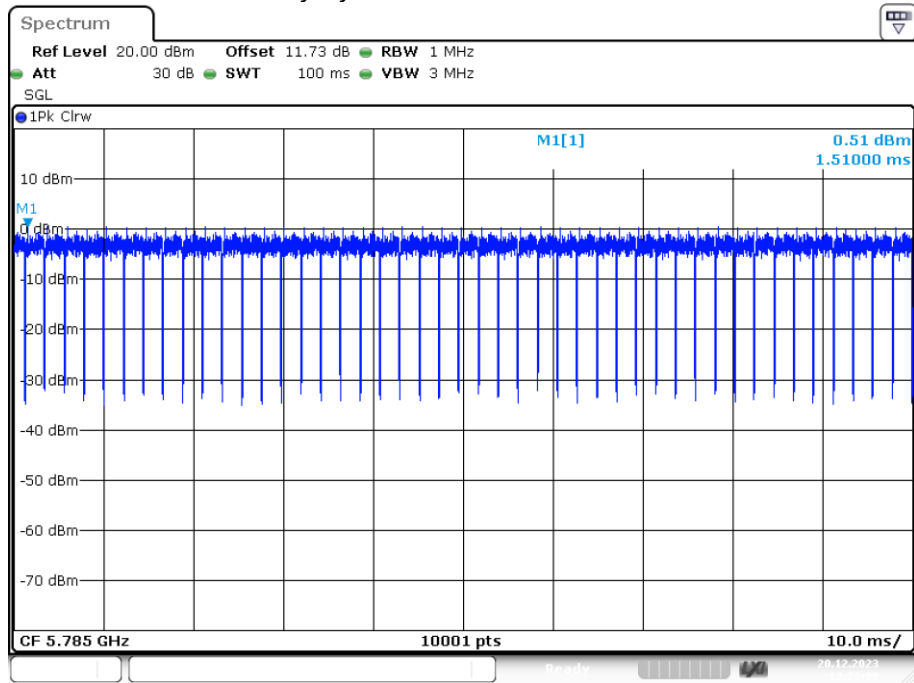
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)
NVNT	a	5745	Ant1	100
NVNT	a	5785	Ant1	100
NVNT	a	5825	Ant1	100
NVNT	n20	5745	Ant1	100
NVNT	n20	5785	Ant1	100
NVNT	n20	5825	Ant1	100
NVNT	n40	5755	Ant1	100
NVNT	n40	5795	Ant1	100

Duty Cycle NVNT a 5745MHz Ant1



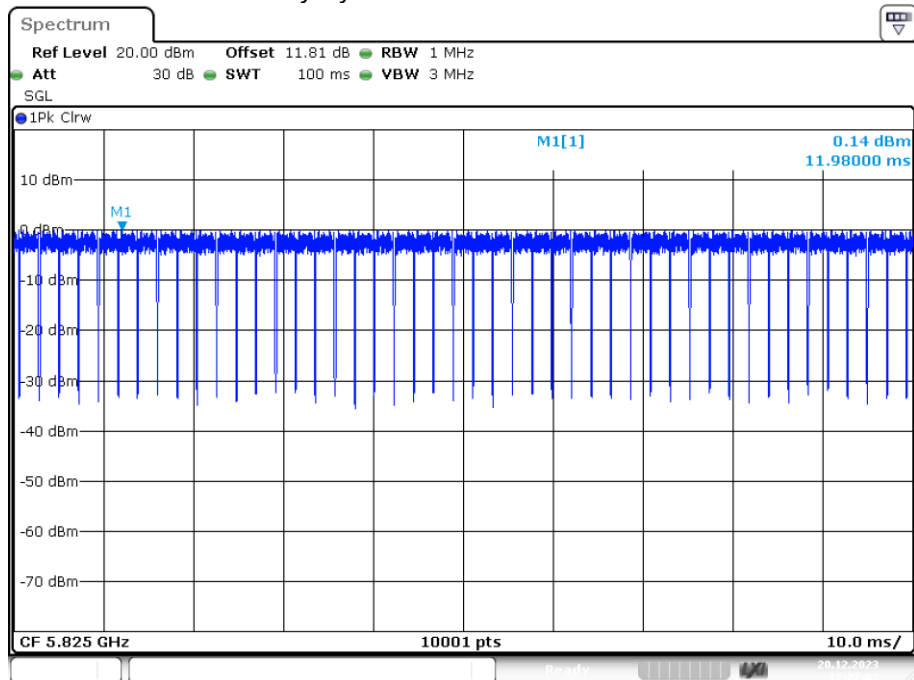
Date: 20.DEC.2023 12:17:20

Duty Cycle NVNT a 5785MHz Ant1



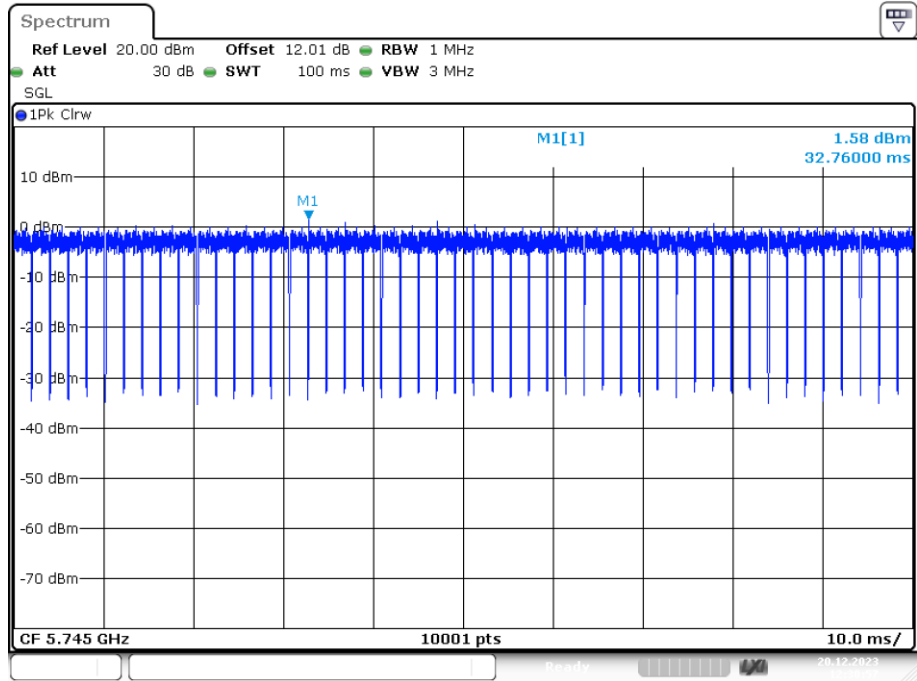
Date: 20.DEC.2023 12:22:59

Duty Cycle NVNT a 5825MHz Ant1



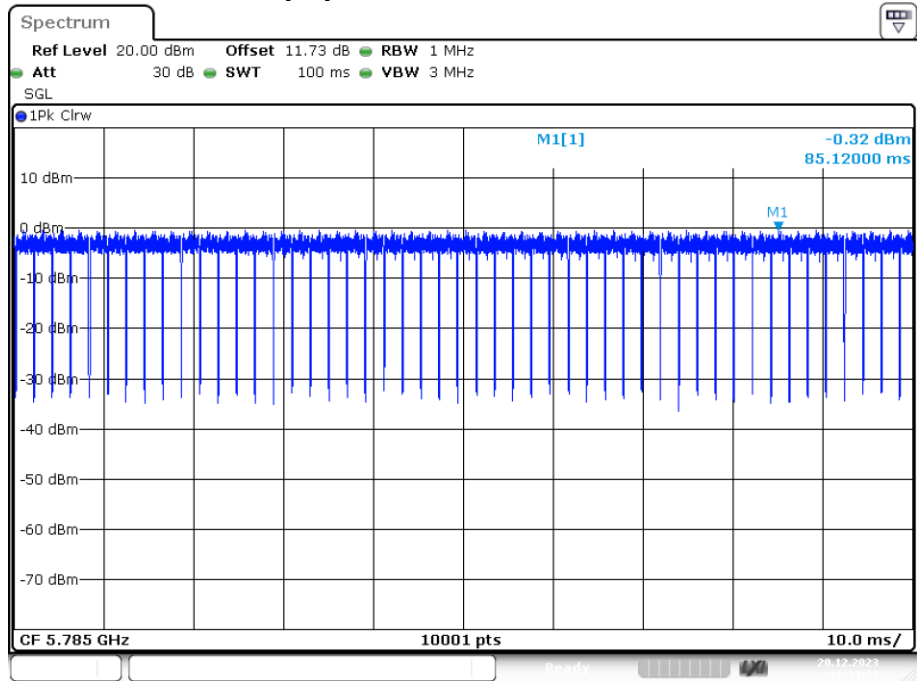
Date: 20.DEC.2023 12:27:02

Duty Cycle NVNT n20 5745MHz Ant1



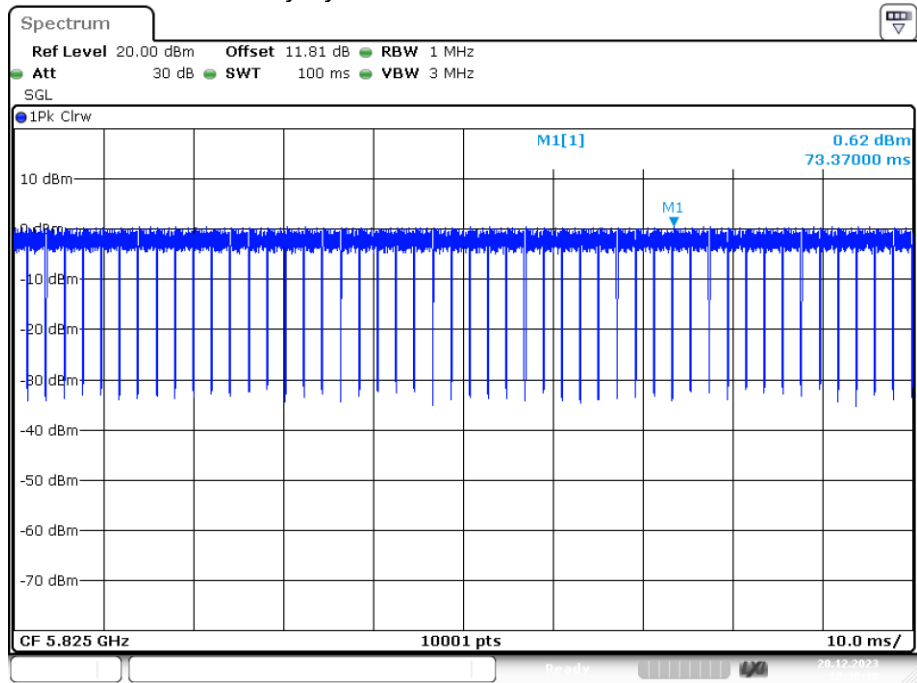
Date: 20.DEC.2023 12:30:57

Duty Cycle NVNT n20 5785MHz Ant1



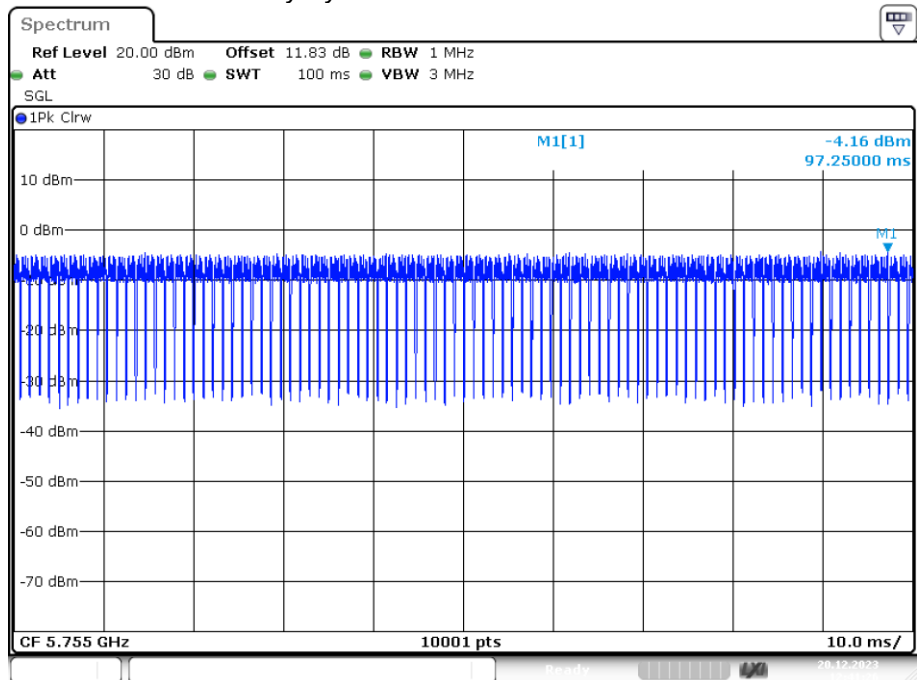
Date: 20.DEC.2023 12:33:27

Duty Cycle NVNT n20 5825MHz Ant1



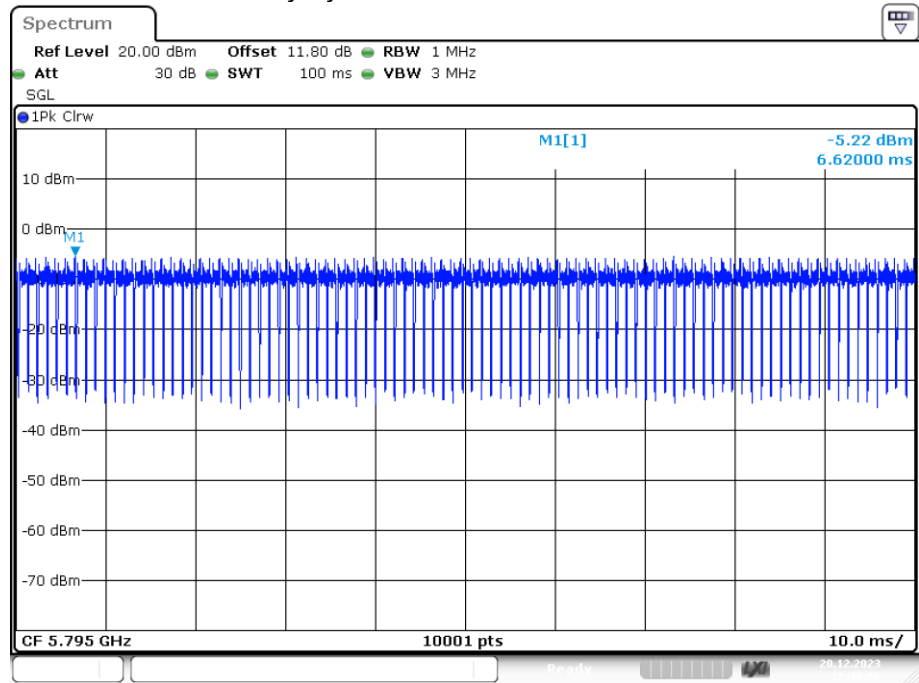
Date: 20.DEC.2023 12:36:38

Duty Cycle NVNT n40 5755MHz Ant1



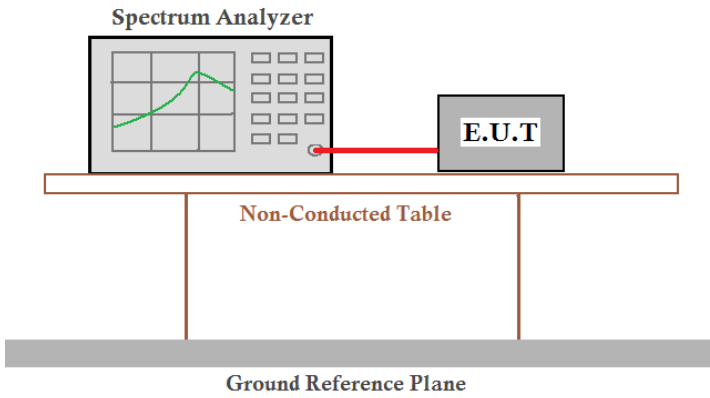
Date: 20.DEC.2023 12:41:26

Duty Cycle NVNT n40 5795MHz Ant1



Date: 20.DEC.2023 12:46:05

4.5 Power Spectral Density

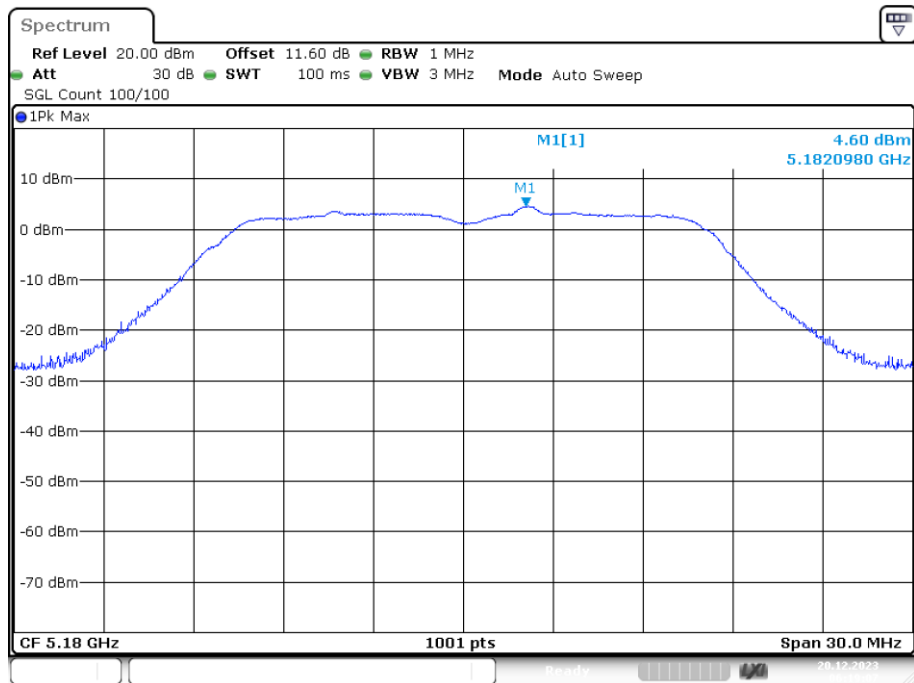
Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	FCC: 1. $\leq 11.00 \text{ dBm/MHz}$ for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz 2. $\leq 30.00 \text{ dBm/500KHz}$ for 5725MHz-5850MHz IC: 1. For the 5.15-5.25 GHz, The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band. 2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Band 1 (5150 - 5250 MHz)

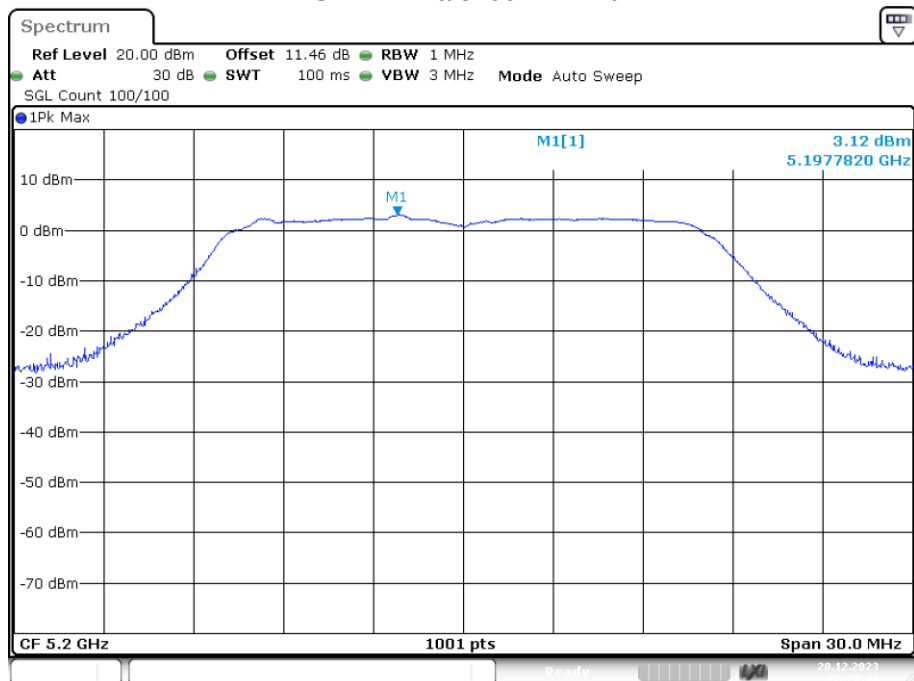
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Verdict
NVNT	a	5180	Ant1	4.596	11	10	Pass
NVNT	a	5200	Ant1	3.118	11	10	Pass
NVNT	a	5240	Ant1	5.2	11	10	Pass
NVNT	n20	5180	Ant1	3.144	11	10	Pass
NVNT	n20	5200	Ant1	3.064	11	10	Pass
NVNT	n20	5240	Ant1	3.976	11	10	Pass
NVNT	n40	5190	Ant1	0.158	11	10	Pass
NVNT	n40	5230	Ant1	2.145	11	10	Pass

PSD NVNT a 5180MHz Ant1



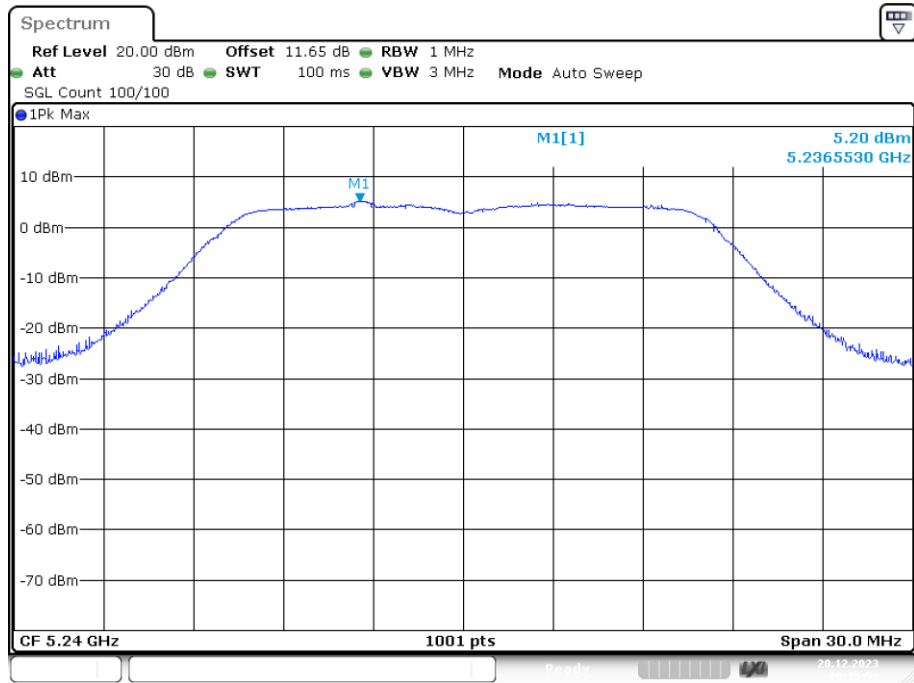
Date: 20.DEC.2023 06:19:06

PSD NVNT a 5200MHz Ant1



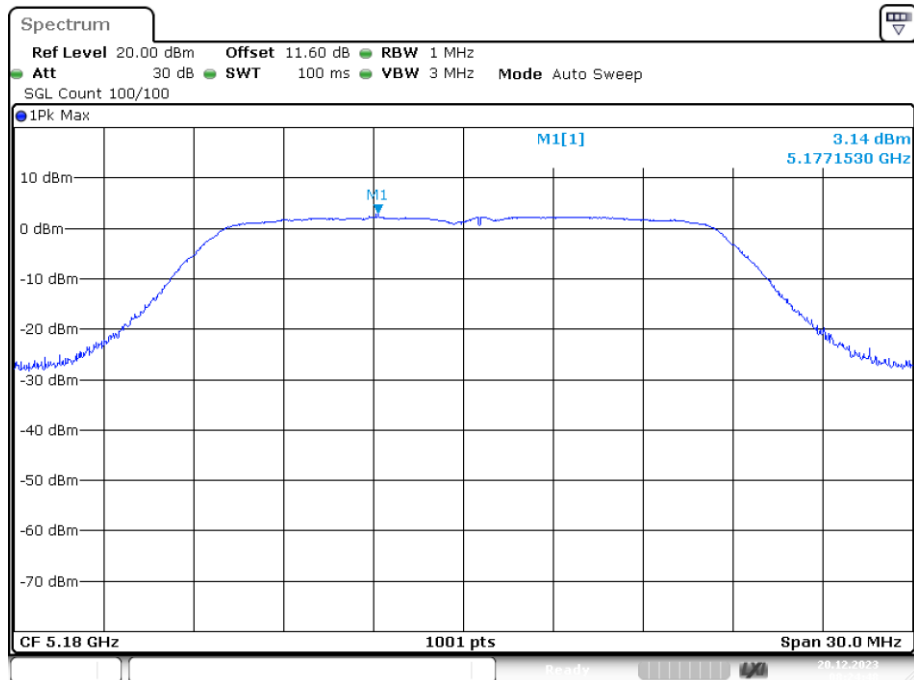
Date: 20.DEC.2023 06:28:44

PSD NVNT a 5240MHz Ant1



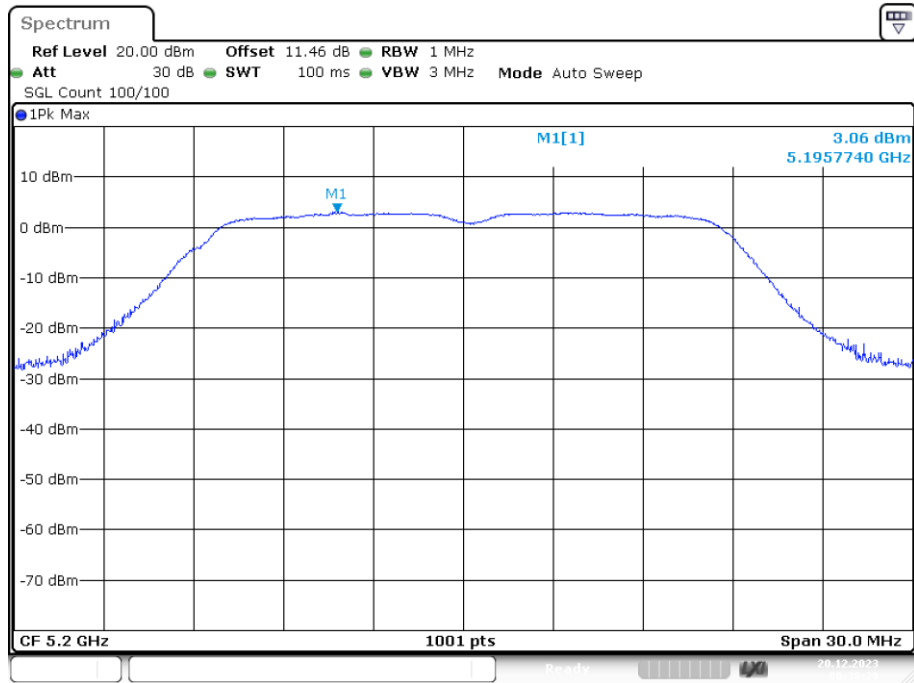
Date: 20.DEC.2023 06:35:53

PSD NVNT n20 5180MHz Ant1



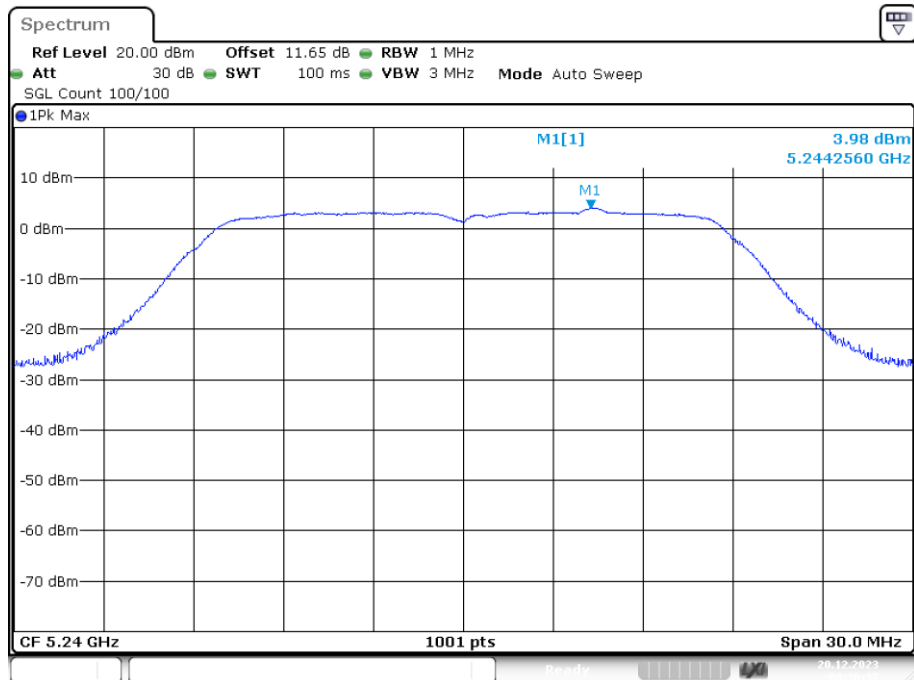
Date: 20.DEC.2023 08:24:48

PSD NVNT n20 5200MHz Ant1



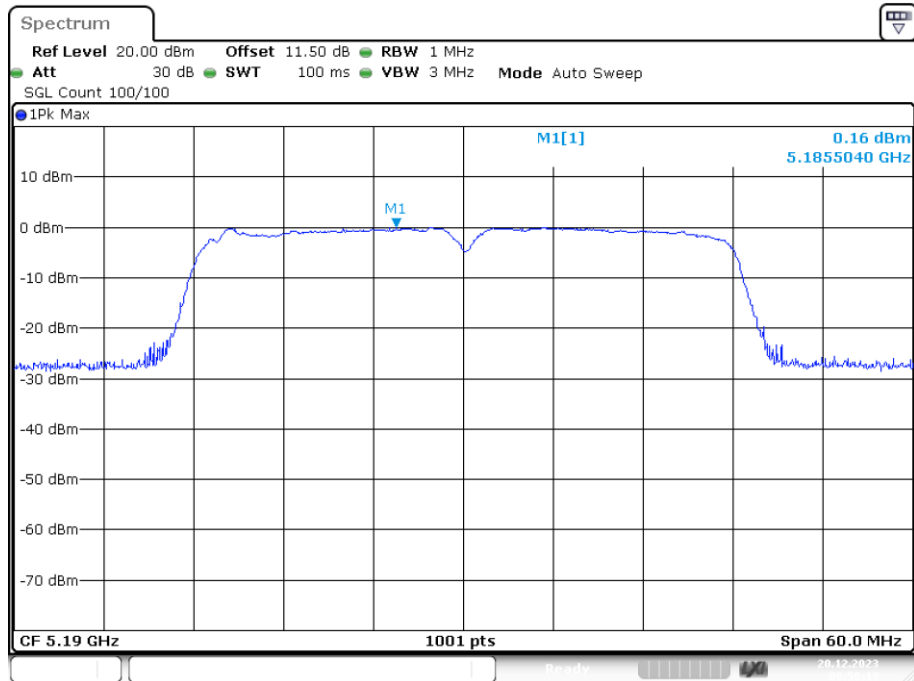
Date: 20.DEC.2023 08:30:29

PSD NVNT n20 5240MHz Ant1



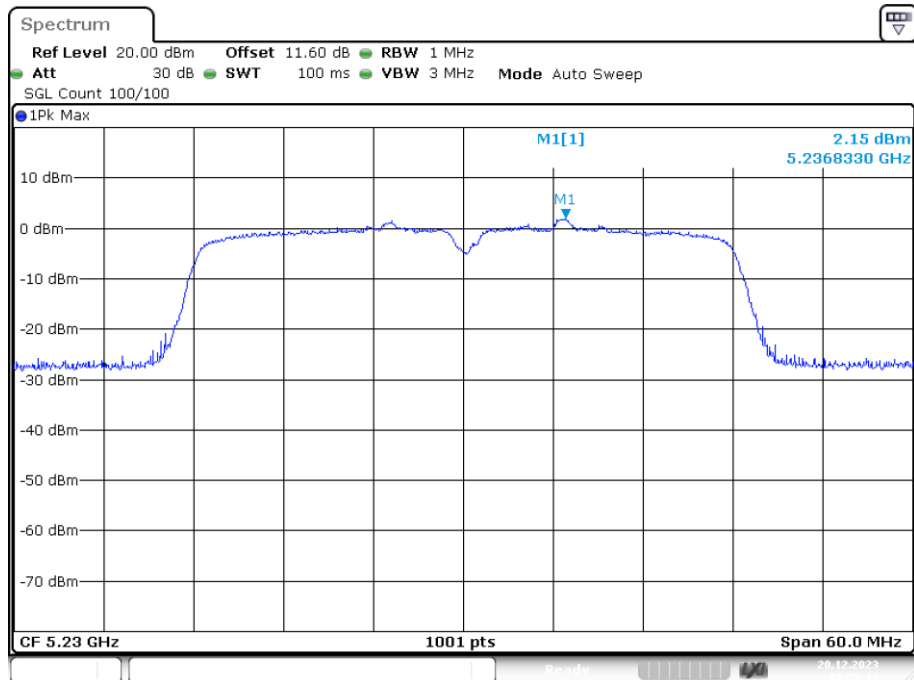
Date: 20.DEC.2023 08:36:37

PSD NVNT n40 5190MHz Ant1



Date: 20.DEC.2023 08:50:13

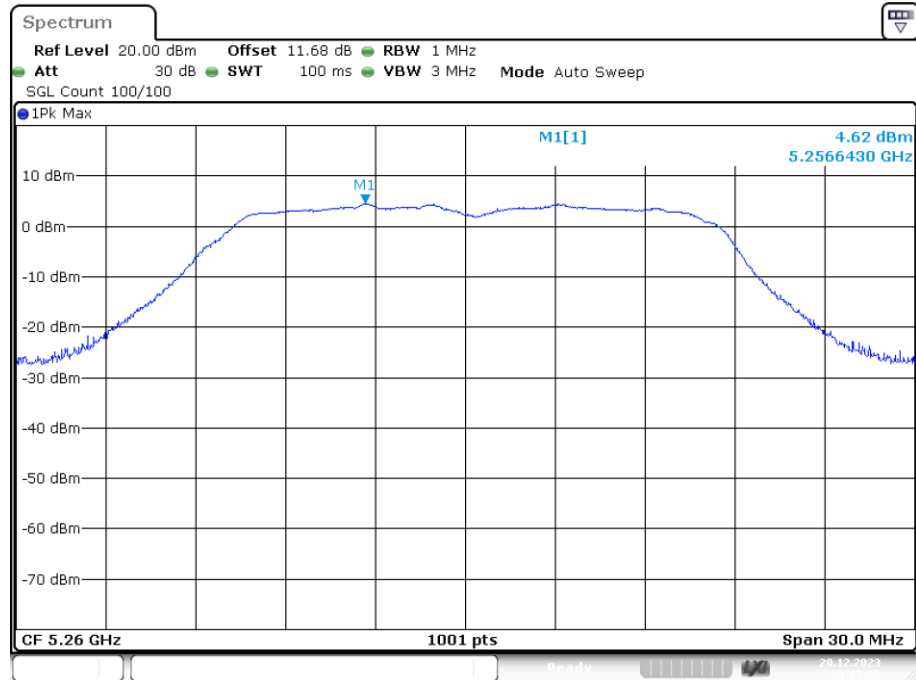
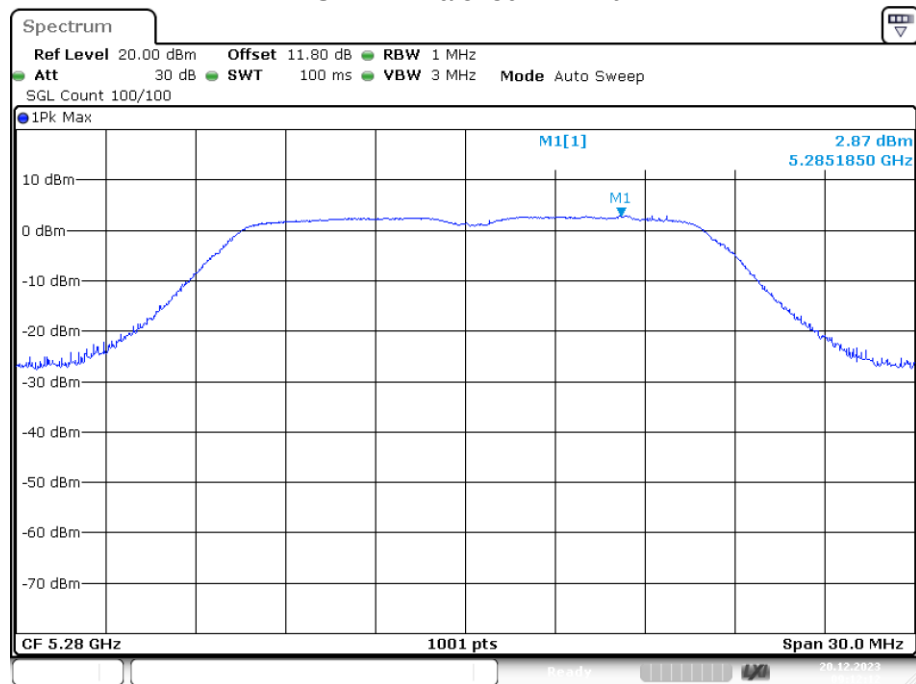
PSD NVNT n40 5230MHz Ant1



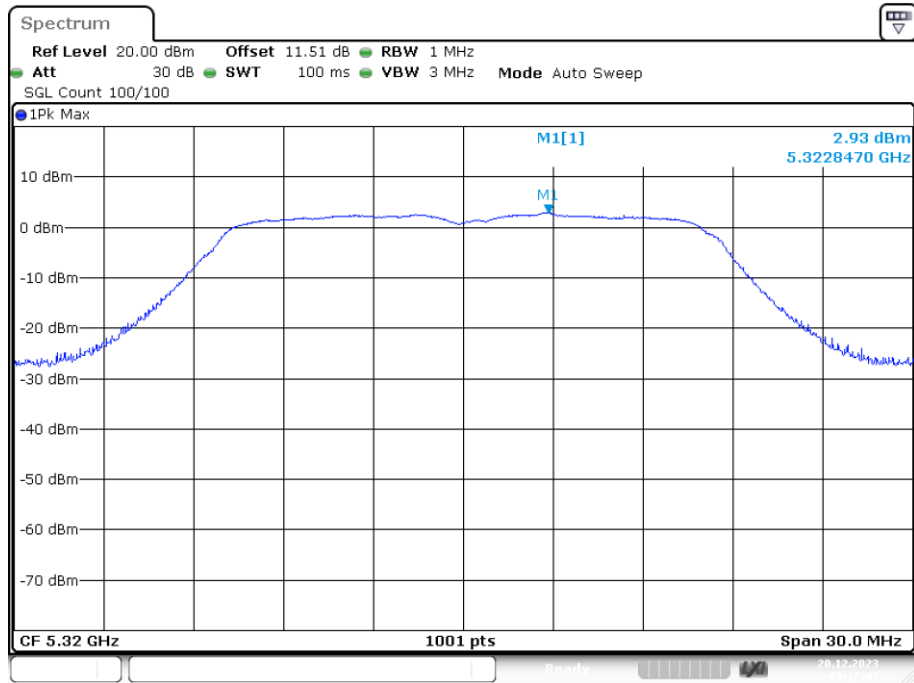
Date: 20.DEC.2023 08:59:14

Band 2 (5250 -5350 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	4.624	11	Pass
NVNT	a	5280	Ant1	2.871	11	Pass
NVNT	a	5320	Ant1	2.927	11	Pass
NVNT	n20	5260	Ant1	3.767	11	Pass
NVNT	n20	5280	Ant1	4.85	11	Pass
NVNT	n20	5320	Ant1	4.3	11	Pass
NVNT	n40	5270	Ant1	1.993	11	Pass
NVNT	n40	5310	Ant1	-0.12	11	Pass

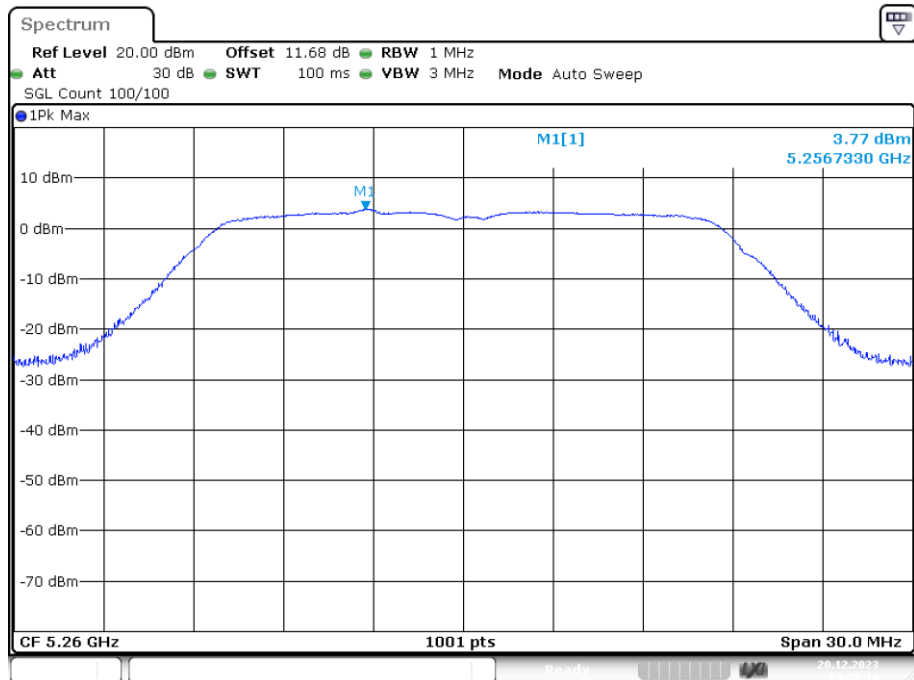
PSD NVNT a 5260MHz Ant1**PSD NVNT a 5280MHz Ant1**

PSD NVNT a 5320MHz Ant1



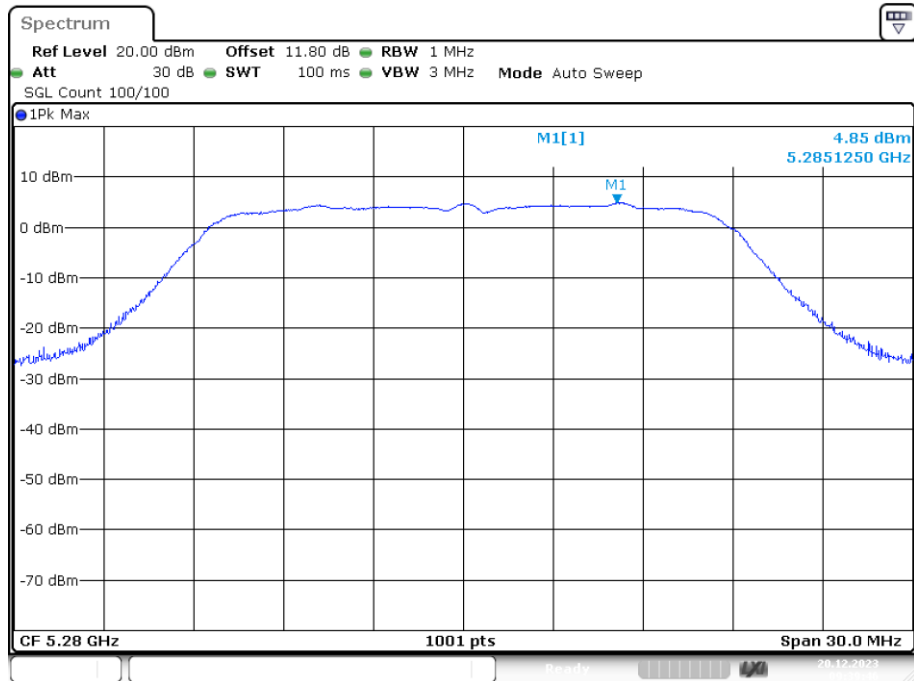
Date: 20.DEC.2023 09:17:47

PSD NVNT n20 5260MHz Ant1



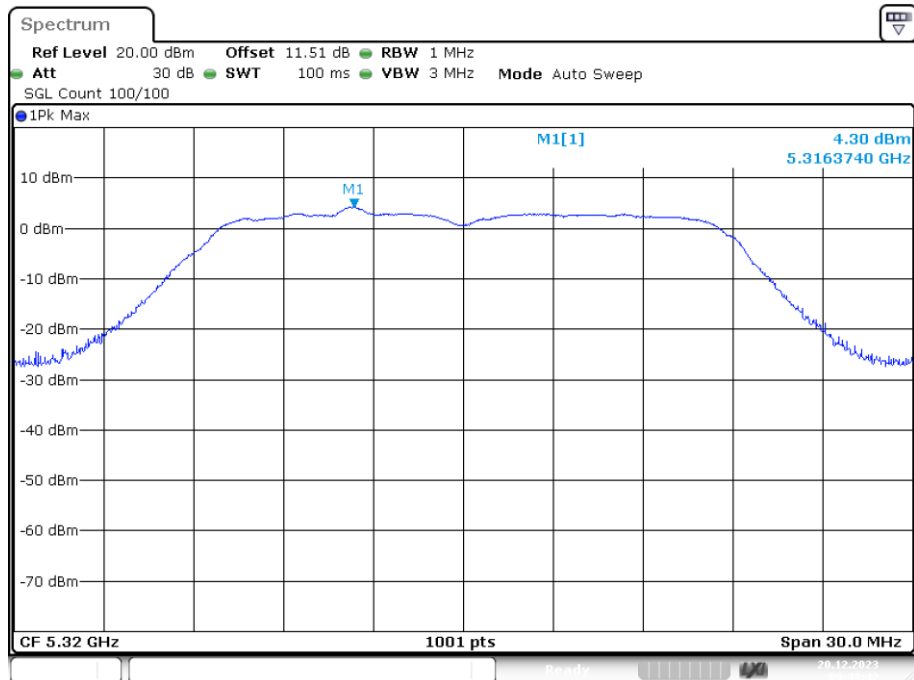
Date: 20.DEC.2023 09:35:13

PSD NVNT n20 5280MHz Ant1



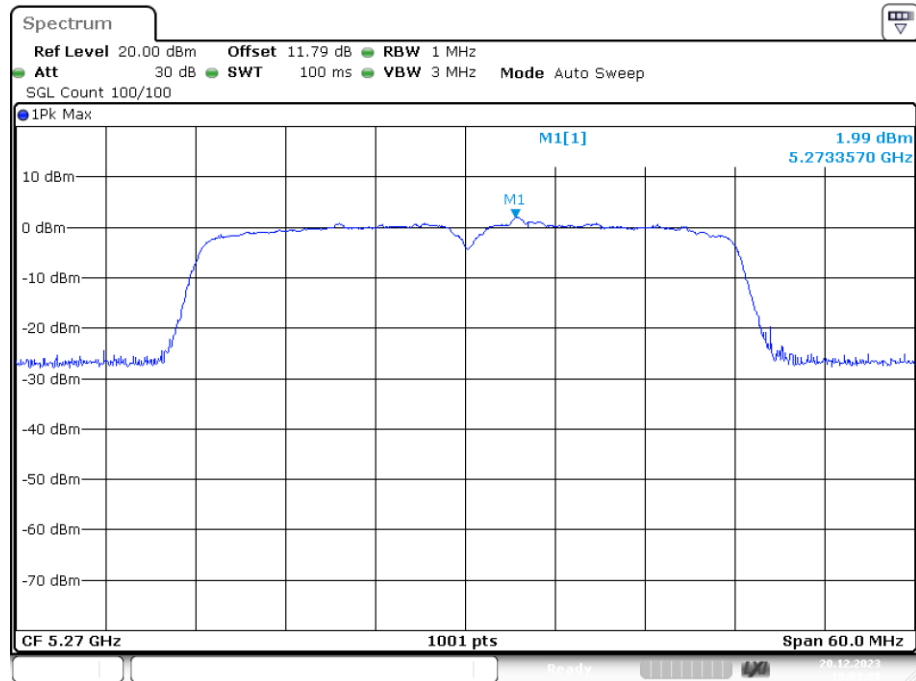
Date: 20.DEC.2023 09:39:46

PSD NVNT n20 5320MHz Ant1



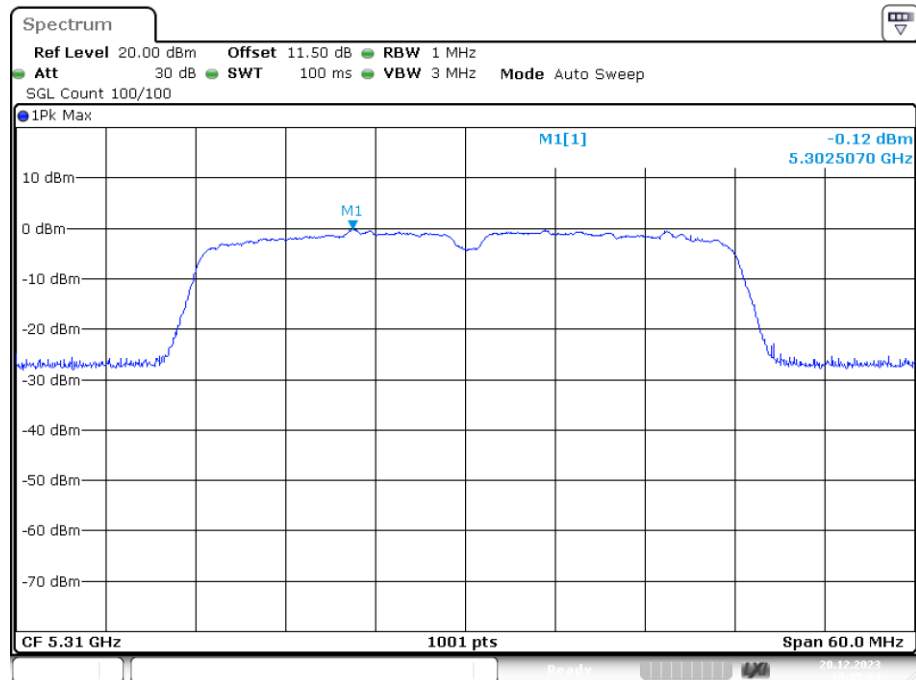
Date: 20.DEC.2023 09:43:41

PSD NVNT n40 5270MHz Ant1



Date: 20.DEC.2023 10:03:08

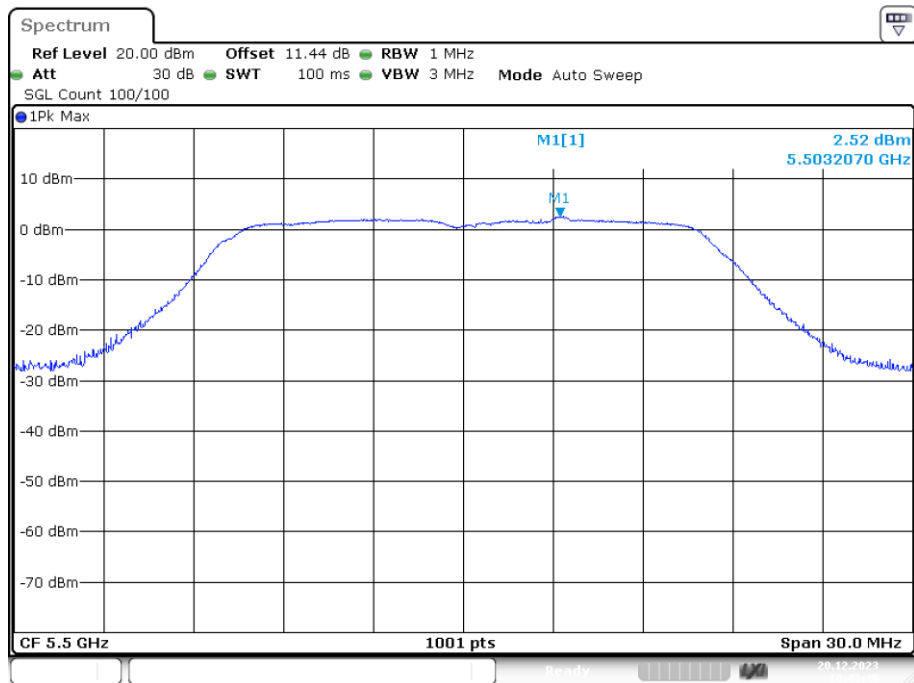
PSD NVNT n40 5310MHz Ant1



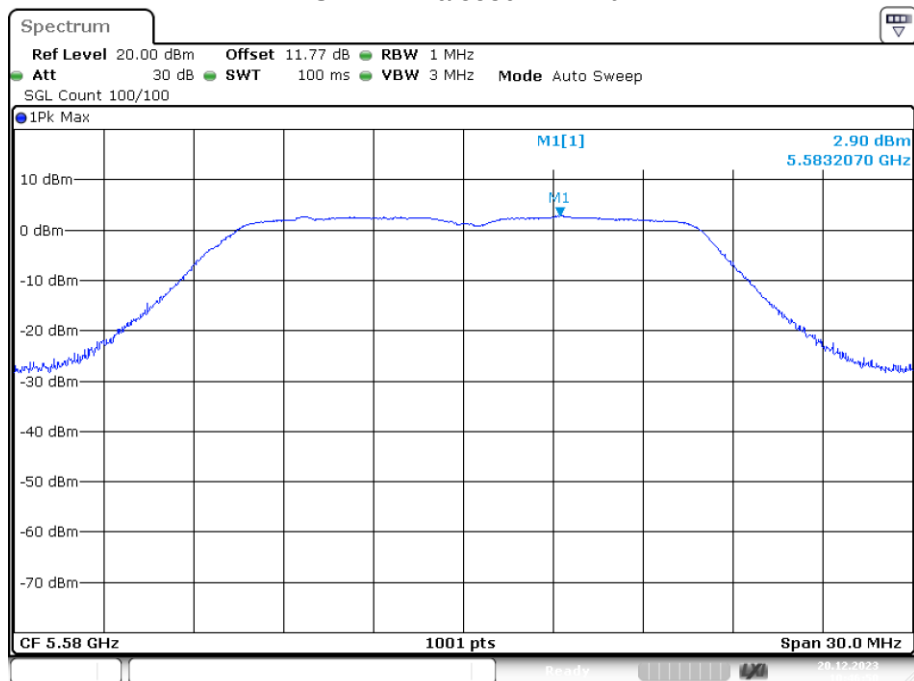
Date: 20.DEC.2023 10:35:04

Band 3 (5470 - 5725 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	2.518	11	Pass
NVNT	a	5580	Ant1	2.895	11	Pass
NVNT	a	5700	Ant1	2.059	11	Pass
NVNT	n20	5500	Ant1	2.948	11	Pass
NVNT	n20	5580	Ant1	3.6	11	Pass
NVNT	n20	5700	Ant1	3.029	11	Pass
NVNT	n40	5510	Ant1	1.017	11	Pass
NVNT	n40	5670	Ant1	0.127	11	Pass

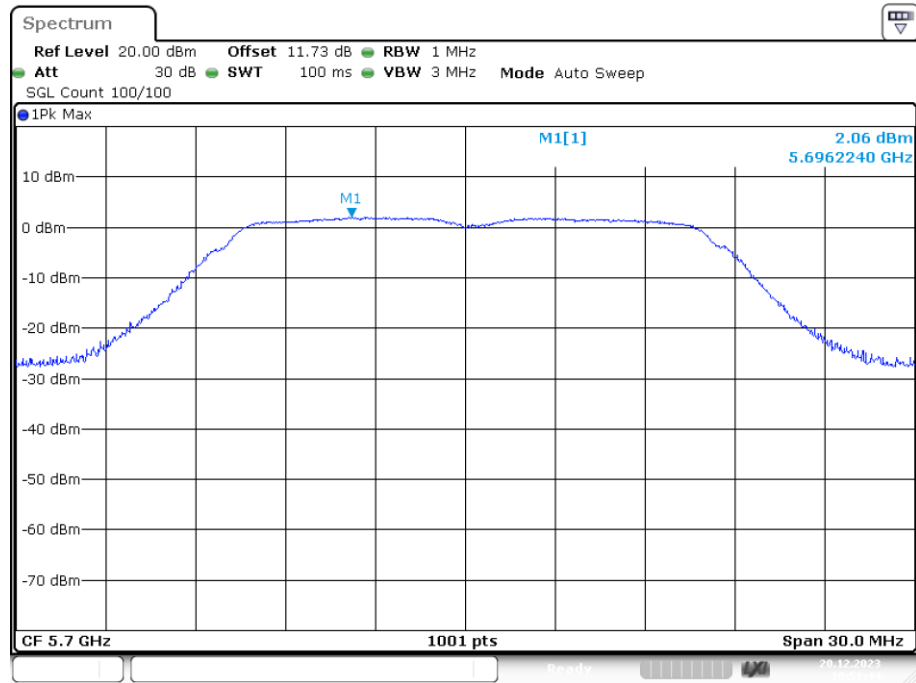
PSD NVNT a 5500MHz Ant1

Date: 20.DEC.2023 10:43:46

PSD NVNT a 5580MHz Ant1

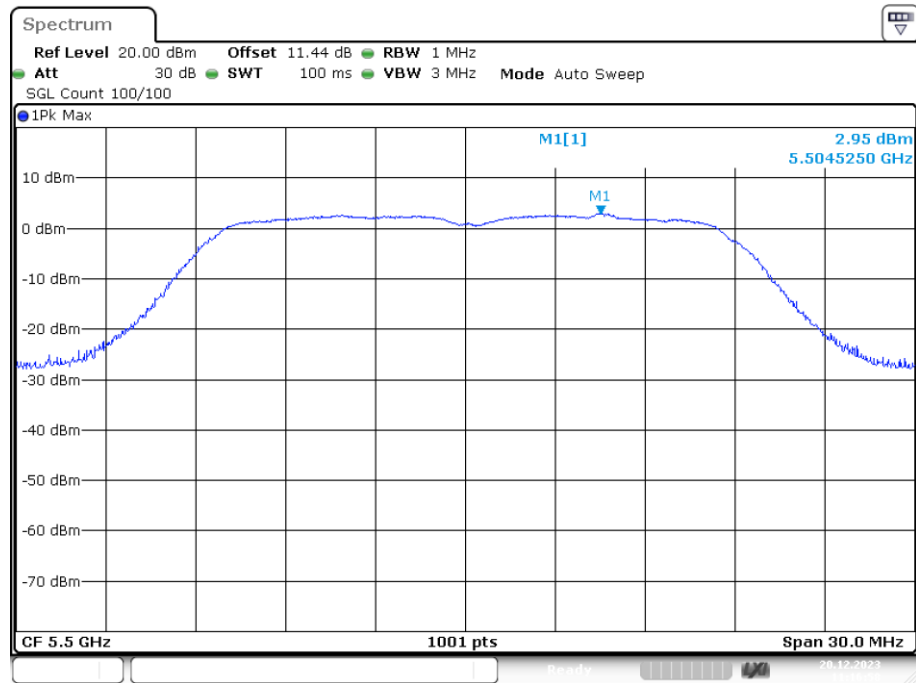
Date: 20.DEC.2023 10:46:50

PSD NVNT a 5700MHz Ant1



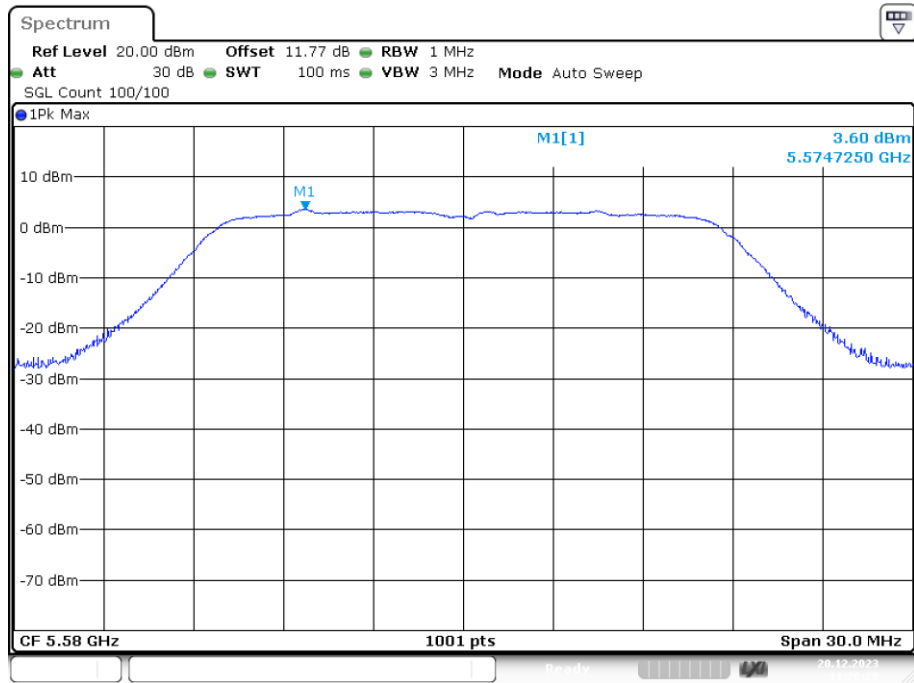
Date: 20.DEC.2023 10:51:44

PSD NVNT n20 5500MHz Ant1



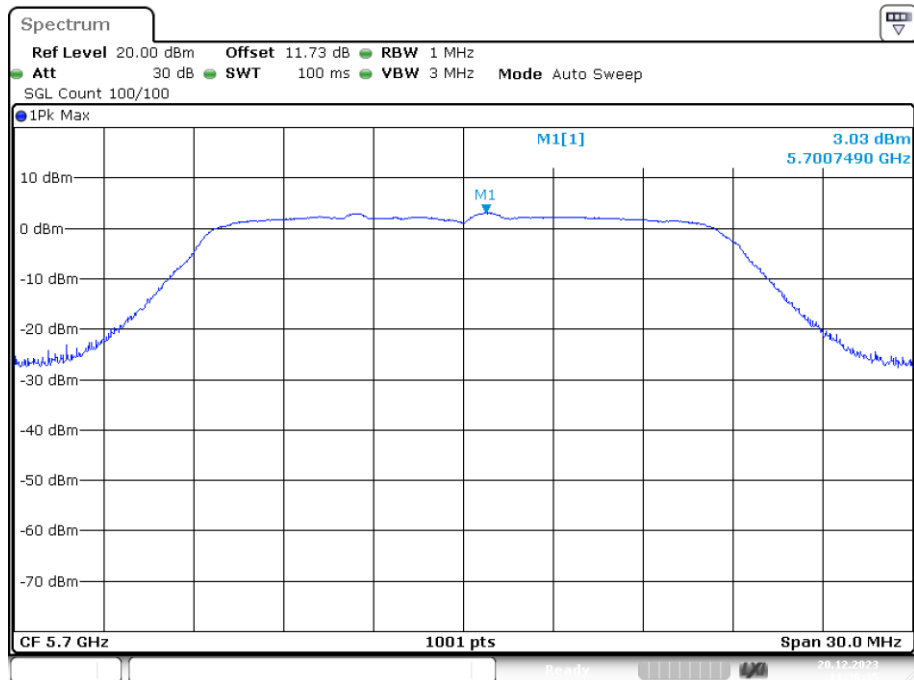
Date: 20.DEC.2023 11:16:58

PSD NVNT n20 5580MHz Ant1



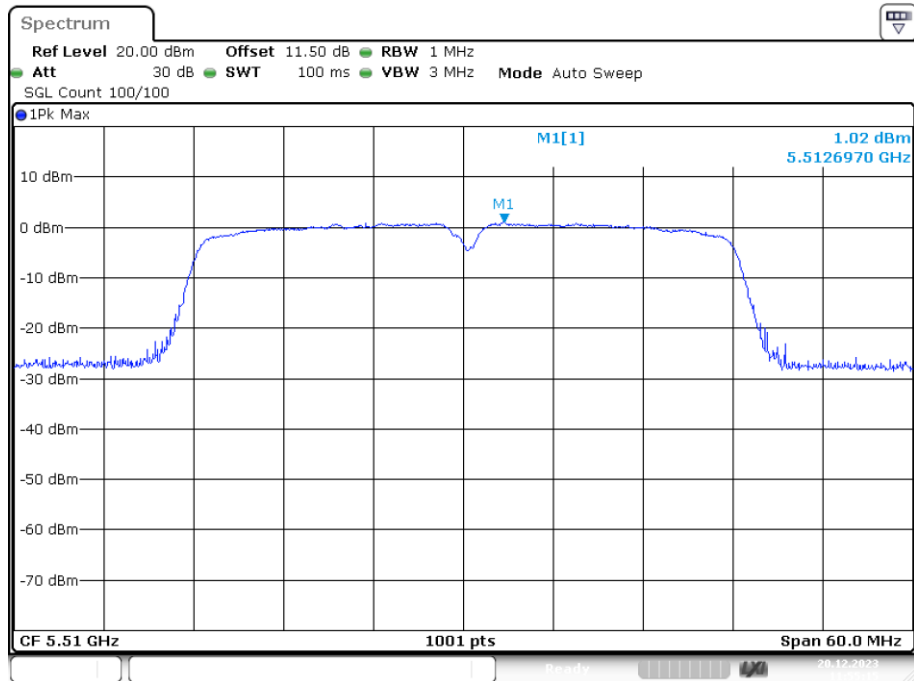
Date: 20.DEC.2023 11:26:20

PSD NVNT n20 5700MHz Ant1



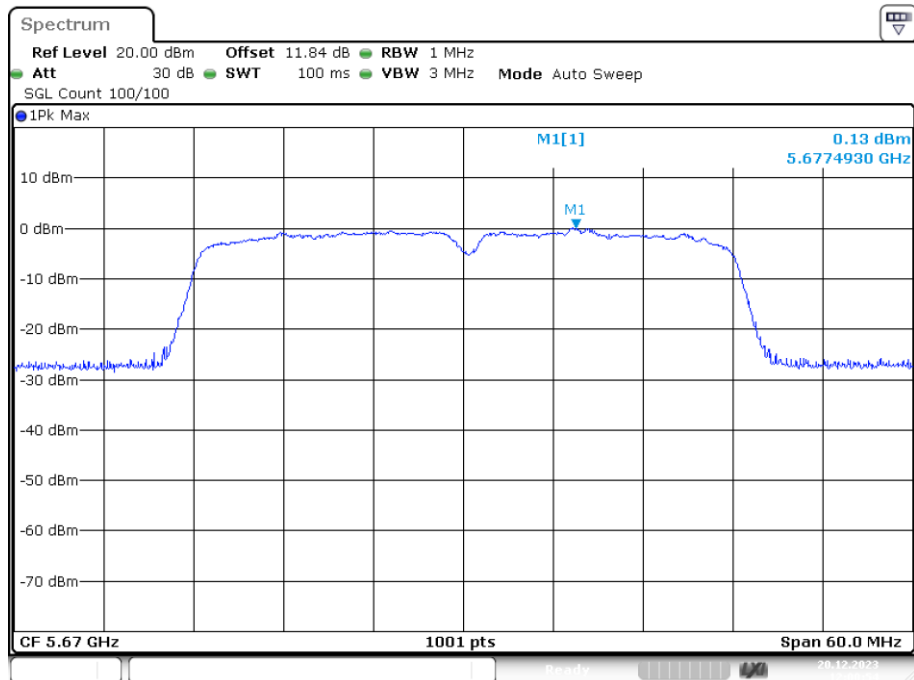
Date: 20.DEC.2023 11:36:36

PSD NVNT n40 5510MHz Ant1



Date: 20.DEC.2023 11:55:15

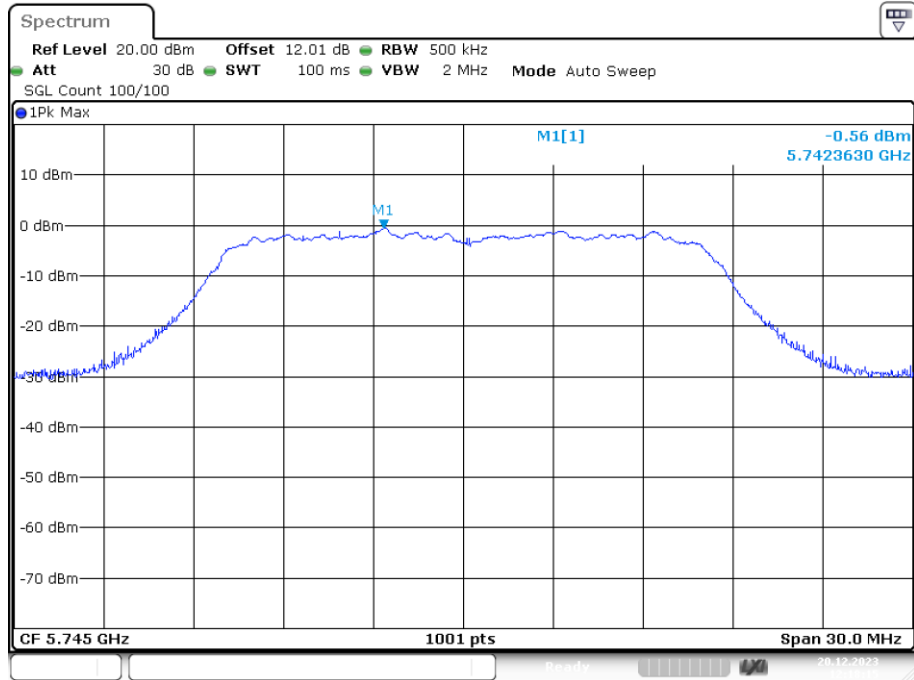
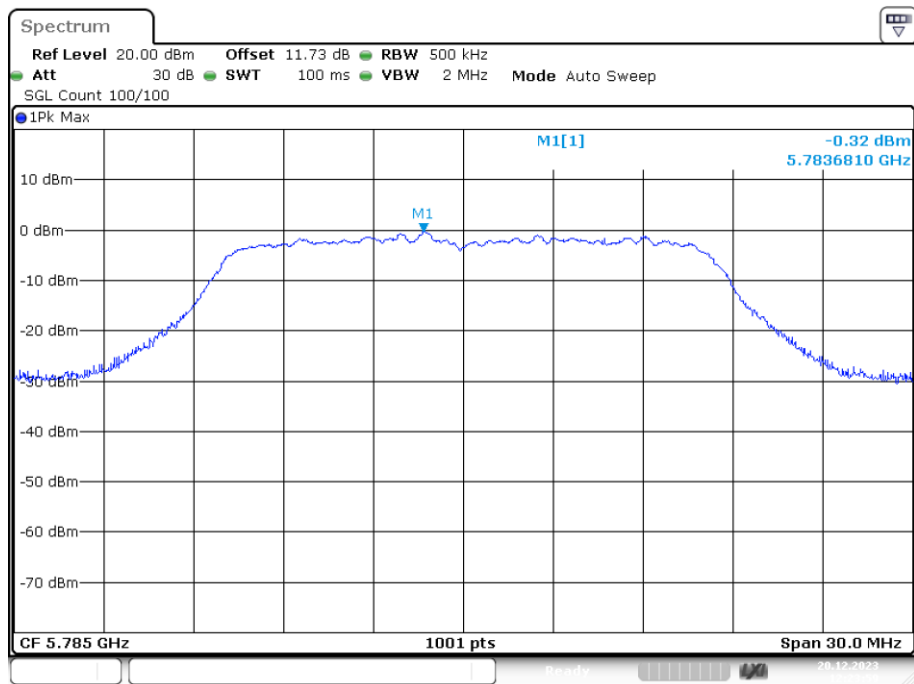
PSD NVNT n40 5670MHz Ant1



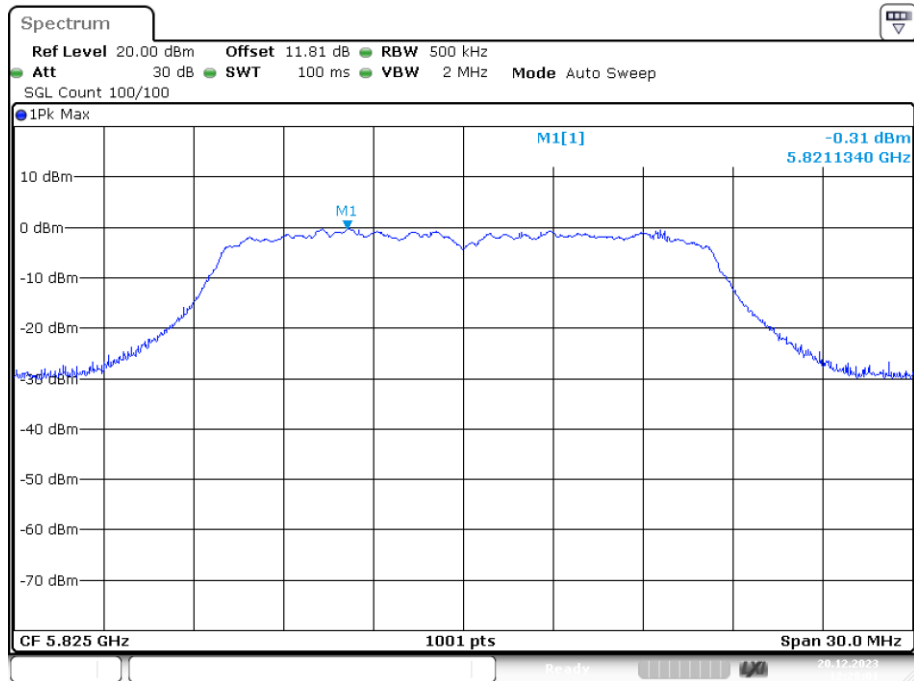
Date: 20.DEC.2023 12:00:54

Band 4 (5725 - 5850 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-0.565	30	Pass
NVNT	a	5785	Ant1	-0.323	30	Pass
NVNT	a	5825	Ant1	-0.307	30	Pass
NVNT	n20	5745	Ant1	-1.239	30	Pass
NVNT	n20	5785	Ant1	-1.204	30	Pass
NVNT	n20	5825	Ant1	-0.11	30	Pass
NVNT	n40	5755	Ant1	-2.31	30	Pass
NVNT	n40	5795	Ant1	-4.351	30	Pass

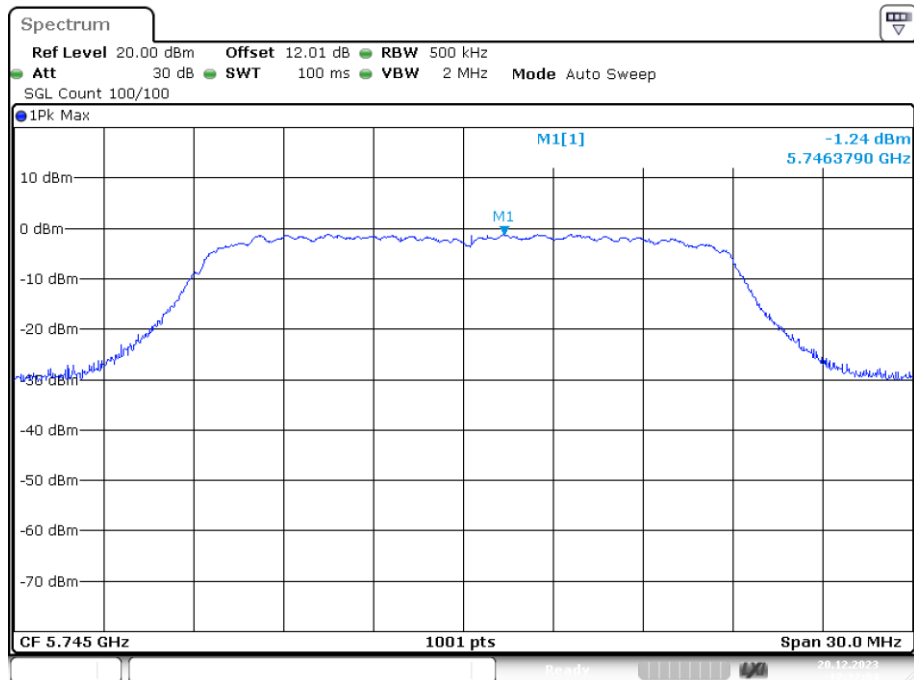
PSD NVNT a 5745MHz Ant1**PSD NVNT a 5785MHz Ant1**

PSD NVNT a 5825MHz Ant1



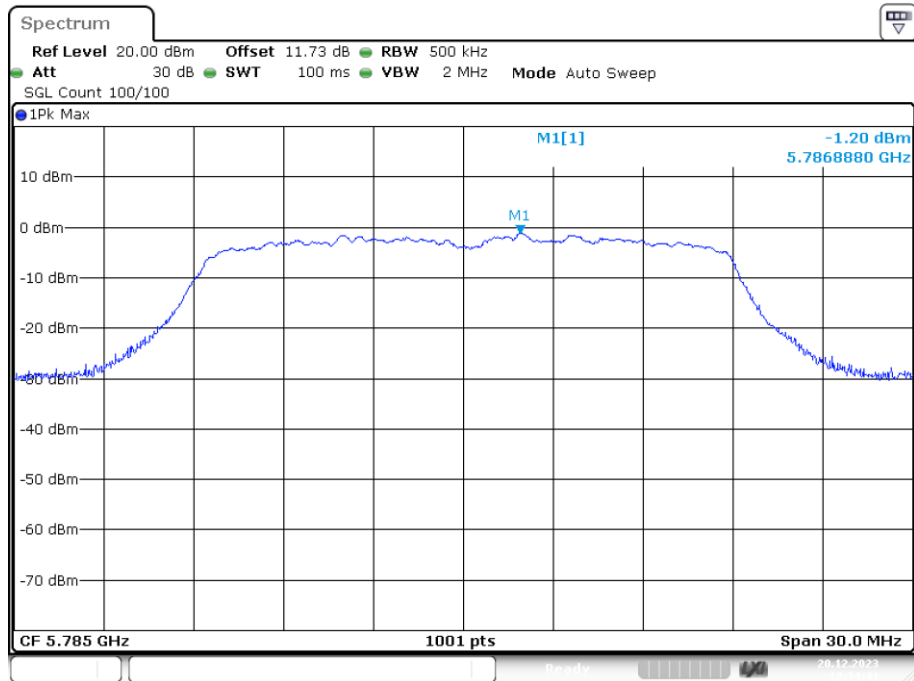
Date: 20.DEC.2023 12:28:02

PSD NVNT n20 5745MHz Ant1



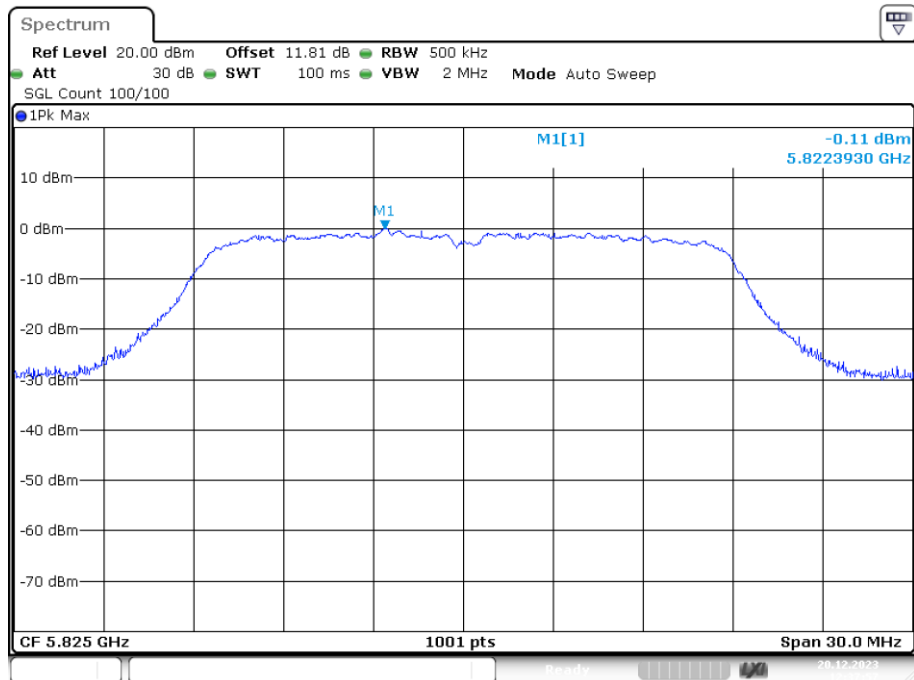
Date: 20.DEC.2023 12:32:04

PSD NVNT n20 5785MHz Ant1



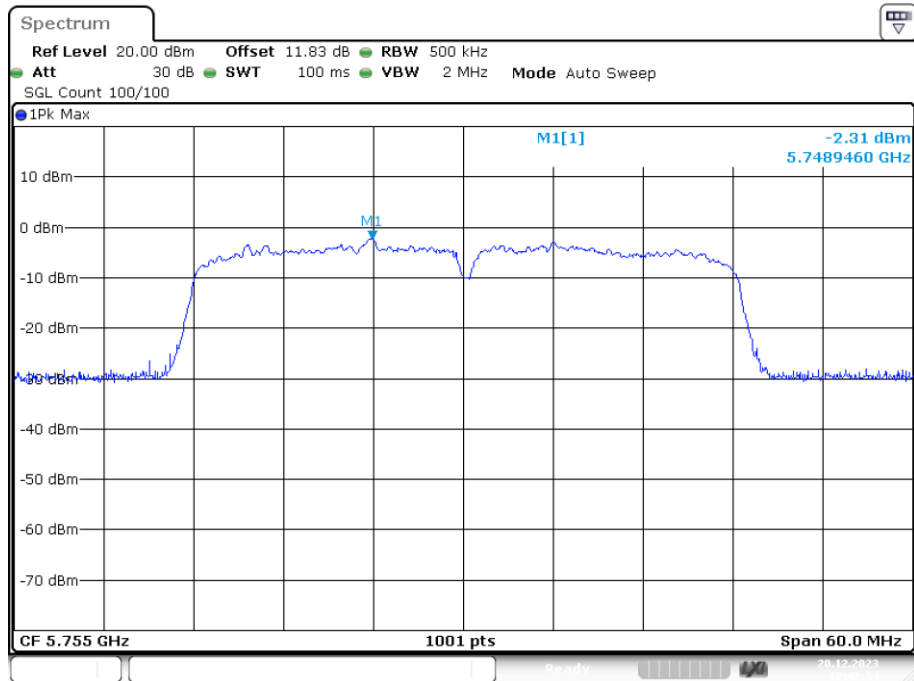
Date: 20.DEC.2023 12:34:41

PSD NVNT n20 5825MHz Ant1



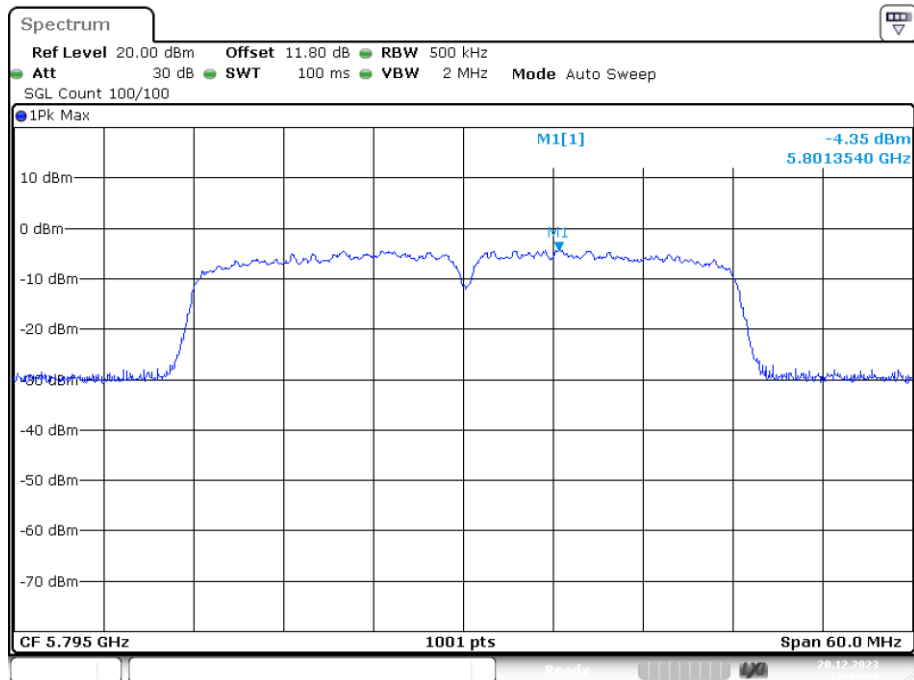
Date: 20.DEC.2023 12:37:57

PSD NVNT n40 5755MHz Ant1



Date: 20.DEC.2023 12:42:53

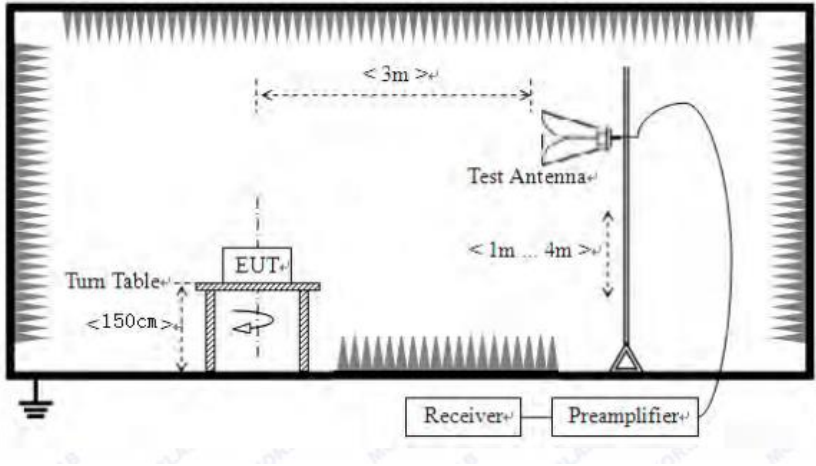
PSD NVNT n40 5795MHz Ant1



Date: 20.DEC.2023 12:47:23

4.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 15.205, RSS-Gen §8.9																								
Test Method:	ANSI C63.10:2013																								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																								
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	AV	1MHz	3MHz	Average Value	
Frequency	Detector	RBW	VBW	Remark																					
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																					
Above 1GHz	Peak	1MHz	3MHz	Peak Value																					
	AV	1MHz	3MHz	Average Value																					
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr><tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr><tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr><tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr><tr><td>68.2</td><td>Peak Value</td></tr></table> Undesirable emission limits: (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	68.2	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																							
30MHz-88MHz	40.0	Quasi-peak Value																							
88MHz-216MHz	43.5	Quasi-peak Value																							
216MHz-960MHz	46.0	Quasi-peak Value																							
960MHz-1GHz	54.0	Quasi-peak Value																							
Above 1GHz	54.0	Average Value																							
	68.2	Peak Value																							
Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.																								
Test setup:	Above 1GHz																								

	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$$

For example, if EIRP = -27dBm

$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$$

Measurement Data:**Band1**

Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	34.38	17.18	51.56	68.20	-16.64	PK
V	5150.00	35.67	17.18	52.85	68.20	-15.35	PK
Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.64	17.18	44.82	54.00	-9.18	AV
V	5150.00	26.92	17.18	44.10	54.00	-9.90	AV
Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.24	17.18	54.42	68.20	-13.78	PK
V	5350.00	35.62	17.18	52.80	68.20	-15.40	PK
Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.98	17.18	44.16	54.00	-9.84	AV
V	5350.00	27.00	17.18	44.18	54.00	-9.82	AV

Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.69	17.18	50.87	68.20	-17.33	PK
V	5150.00	33.57	17.18	50.75	68.20	-17.45	PK
Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.35	17.18	44.53	54.00	-9.47	AV
V	5150.00	26.25	17.18	43.43	54.00	-10.57	AV
Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.58	17.18	52.76	68.20	-15.44	PK
V	5350.00	33.40	17.18	50.58	68.20	-17.62	PK
Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.04	17.18	42.22	54.00	-11.78	AV
V	5350.00	24.84	17.18	42.02	54.00	-11.98	AV

Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.65	17.18	50.83	68.20	-17.37	PK
V	5150.00	34.04	17.18	51.22	68.20	-16.98	PK
Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.86	17.18	45.04	54.00	-8.96	AV
V	5150.00	27.26	17.18	44.44	54.00	-9.56	AV
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	36.18	17.18	53.36	68.20	-14.84	PK
V	5350.00	34.09	17.18	51.27	68.20	-16.93	PK
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.38	17.18	44.56	54.00	-9.44	AV
V	5350.00	23.41	17.18	40.59	54.00	-13.41	AV

Band2

Mode:		802.11a		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	37.80	17.19	54.99	68.20	-13.21	PK
V	5150.00	36.93	17.19	54.12	68.20	-14.08	PK
Mode:		802.11a		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.31	17.19	44.50	54.00	-9.50	AV
V	5150.00	26.27	17.19	43.46	54.00	-10.54	AV
Mode:		802.11a		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.96	17.19	53.15	68.20	-15.05	PK
V	5350.00	36.25	17.19	53.44	68.20	-14.76	PK
Mode:		802.11a		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.64	17.19	43.83	54.00	-10.17	AV
V	5350.00	24.84	17.19	42.03	54.00	-11.97	AV

Mode:		802.11n(HT20)		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.69	17.19	52.88	68.20	-15.32	PK
V	5150.00	35.83	17.19	53.02	68.20	-15.18	PK
Mode:		802.11n(HT20)		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	24.56	17.19	41.75	54.00	-12.25	AV
V	5150.00	24.85	17.19	42.04	54.00	-11.96	AV
Mode:		802.11n(HT20)		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.21	17.19	52.40	68.20	-15.80	PK
V	5350.00	34.77	17.19	51.96	68.20	-16.24	PK
Mode:		802.11n(HT20)		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.32	17.19	44.51	54.00	-9.49	AV
V	5350.00	24.78	17.19	41.97	54.00	-12.03	AV

Mode:		802.11n(HT40)		Frequency:		5270MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	37.82	17.19	55.01	68.20	-13.19	PK
V	5150.00	34.17	17.19	51.36	68.20	-16.84	PK
Mode:		802.11n(HT40)		Frequency:		5270MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	26.18	17.19	43.37	54.00	-10.63	AV
V	5150.00	24.08	17.19	41.27	54.00	-12.73	AV
Mode:		802.11n(HT40)		Frequency:		5310MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	34.44	17.19	51.63	68.20	-16.57	PK
V	5350.00	37.11	17.19	54.30	68.20	-13.90	PK
Mode:		802.11n(HT40)		Frequency:		5310MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.97	17.19	44.16	54.00	-9.84	AV
V	5350.00	26.66	17.19	43.85	54.00	-10.15	AV

Band3

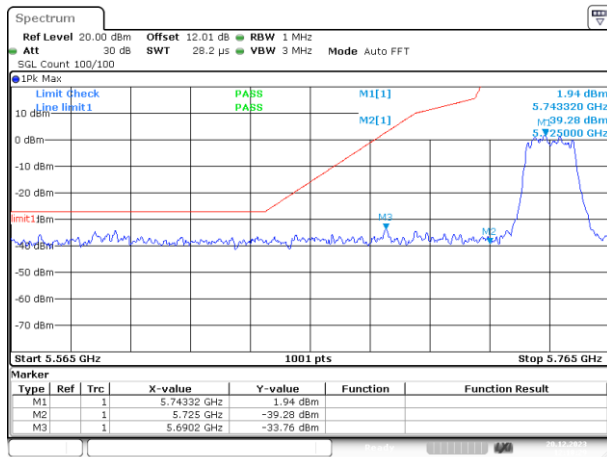
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Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	39.51	17.21	56.72	68.20	-11.48	PK
V	5470.00	37.33	17.21	54.54	68.20	-13.66	PK
Mode:		802.11a		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	25.66	17.21	42.87	54.00	-11.13	AV
V	5470.00	24.87	17.21	42.08	54.00	-11.92	AV
Mode:		802.11a		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	38.73	17.21	55.94	68.20	-12.26	PK
V	5725.00	36.73	17.21	53.94	68.20	-14.26	PK
Mode:		802.11a		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	26.89	17.21	44.10	54.00	-9.90	AV
V	5725.00	26.95	17.21	44.16	54.00	-9.84	AV

Mode:		802.11n(HT20)		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	38.78	17.21	55.99	68.20	-12.21	PK
V	5470.00	35.97	17.21	53.18	68.20	-15.02	PK
Mode:		802.11n(HT20)		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	28.43	17.21	45.64	54.00	-8.36	AV
V	5470.00	27.92	17.21	45.13	54.00	-8.87	AV
Mode:		802.11n(HT20)		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	37.73	17.21	54.94	68.20	-13.26	PK
V	5725.00	37.83	17.21	55.04	68.20	-13.16	PK
Mode:		802.11n(HT20)		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	28.75	17.21	45.96	54.00	-8.04	AV
V	5725.00	26.07	17.21	43.28	54.00	-10.72	AV

Mode:		802.11n(HT40)		Frequency:		5510MHz	
Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Over limit(dB)	Detector
		(dBuV)	(dB/m)	(dBuV/m)			
H	5470.00	37.71	17.21	54.92	68.20	-13.28	PK
V	5470.00	36.43	17.21	53.64	68.20	-14.56	PK
Mode:		802.11n(HT40)		Frequency:		5510MHz	
Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Over limit(dB)	Detector
		(dBuV)	(dB/m)	(dBuV/m)			
H	5470.00	26.94	17.21	44.15	54.00	-9.85	AV
V	5470.00	26.23	17.21	43.44	54.00	-10.56	AV
Mode:		802.11n(HT40)		Frequency:		5670MHz	
Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Over limit(dB)	Detector
		(dBuV)	(dB/m)	(dBuV/m)			
H	5725.00	36.18	17.21	53.39	68.20	-14.81	PK
V	5725.00	34.58	17.21	51.79	68.20	-16.41	PK
Mode:		802.11n(HT40)		Frequency:		5670MHz	
Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Over limit(dB)	Detector
		(dBuV)	(dB/m)	(dBuV/m)			
H	5725.00	27.10	17.21	44.31	54.00	-9.69	AV
V	5725.00	28.49	17.21	45.70	54.00	-8.30	AV

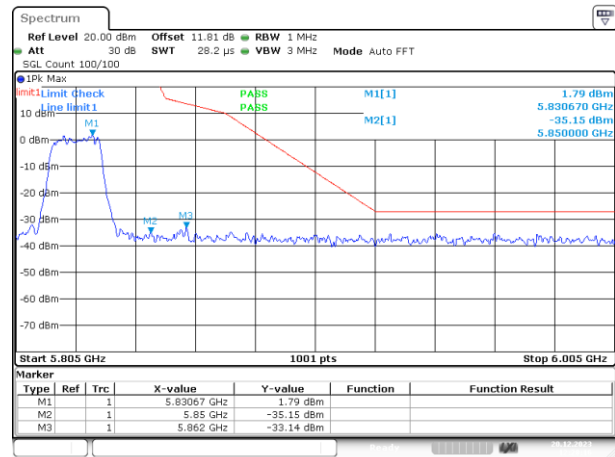
Band4

802.11a



Date: 20.DEC.2023 12:18:28

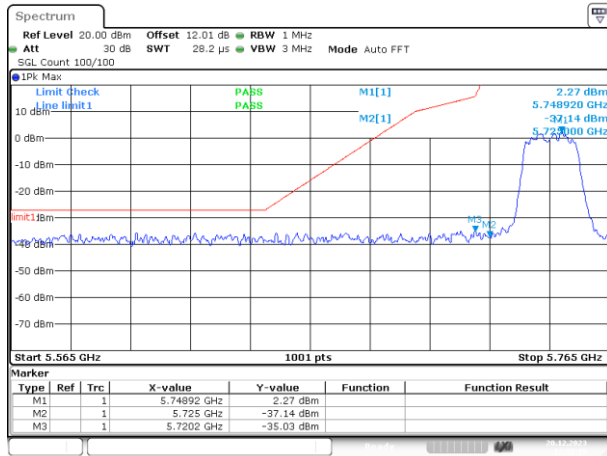
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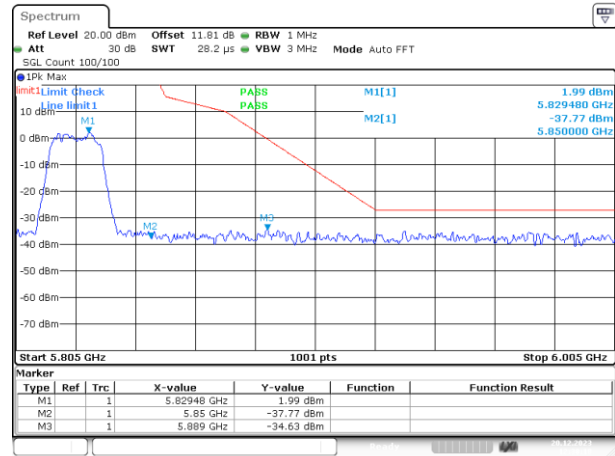
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802.11n(HT20)



Date: 20.DEC.2023 12:32:19

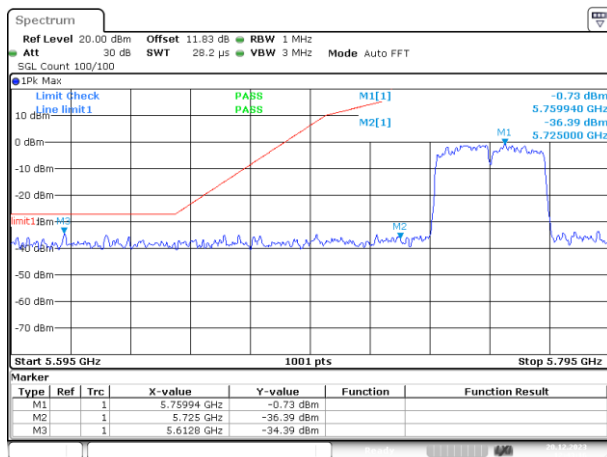
Low: 5745MHz



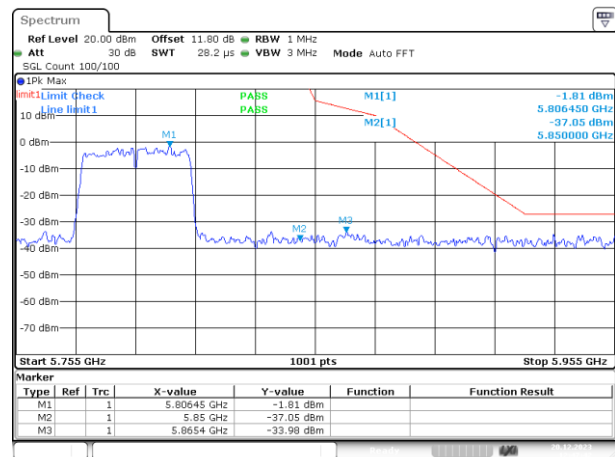
Date: 20.DEC.2023 12:38:17

High: 5825MHz

802.11n(HT40)



Date: 20.DEC.2023 12:43:16



Date: 20.DEC.2023 12:47:42

4.7 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205, RSS-Gen §8.9				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		74.0		Peak Value
			54.0		Average Value
Test Procedure:	Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below: 1>.Below 1GHz test procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 2>.Above 1GHz test procedure: 1. On the test site as test setup graph above, the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a				