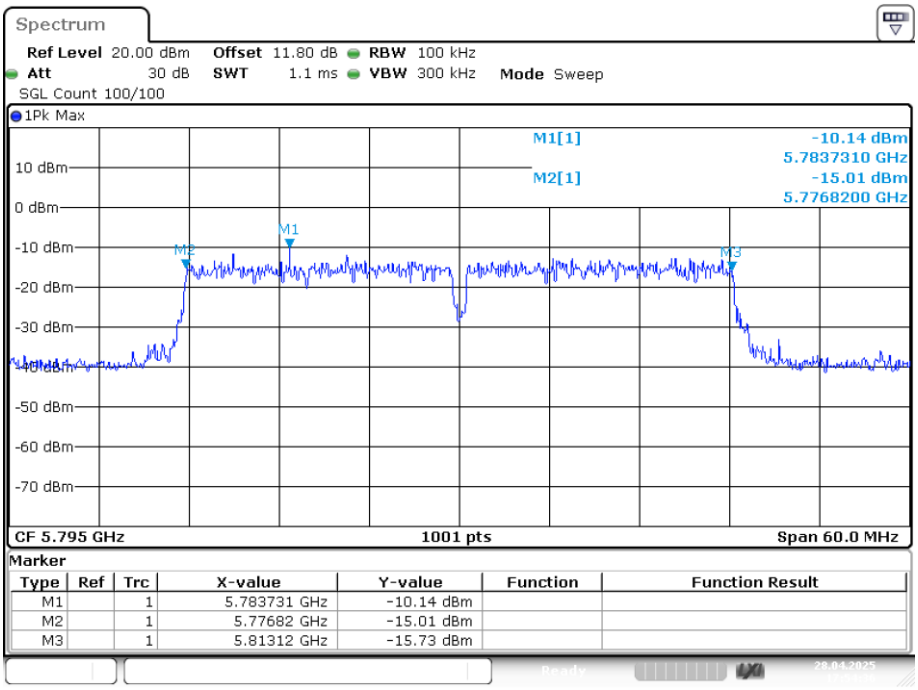
-6dB Bandwidth NVNT n40 5795MHz Ant1

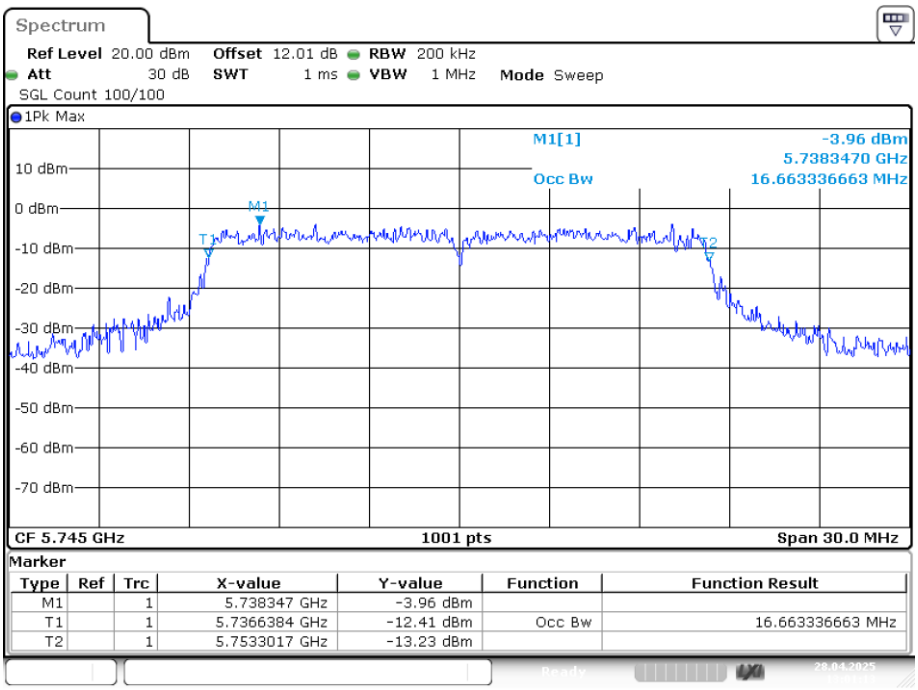


Date: 28.APR.2025 17:54:36

Occupied Channel Bandwidth

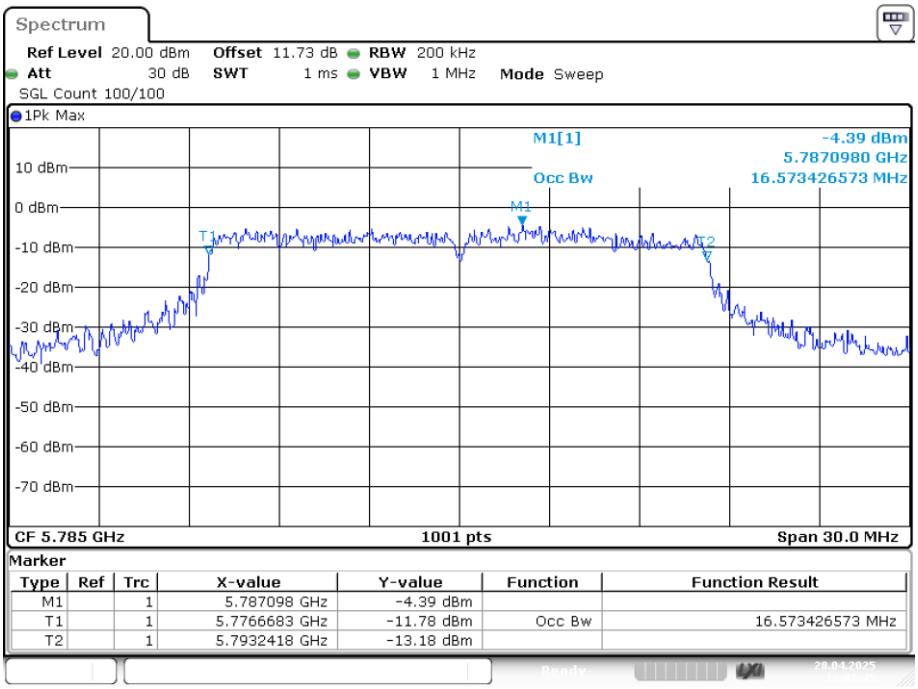
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.663
NVNT	a	5785	Ant1	16.573
NVNT	a	5825	Ant1	16.723
NVNT	ac20	5745	Ant1	17.802
NVNT	ac20	5785	Ant1	17.892
NVNT	ac20	5825	Ant1	17.922
NVNT	ac40	5755	Ant1	36.683
NVNT	ac40	5795	Ant1	36.683
NVNT	ax20	5745	Ant1	19.091
NVNT	ax20	5785	Ant1	19.031
NVNT	ax20	5825	Ant1	19.031
NVNT	ax40	5755	Ant1	38.002
NVNT	ax40	5795	Ant1	38.182
NVNT	n20	5745	Ant1	17.862
NVNT	n20	5785	Ant1	17.772
NVNT	n20	5825	Ant1	18.012
NVNT	n40	5755	Ant1	36.683
NVNT	n40	5795	Ant1	36.683

OBW NVNT a 5745MHz Ant1



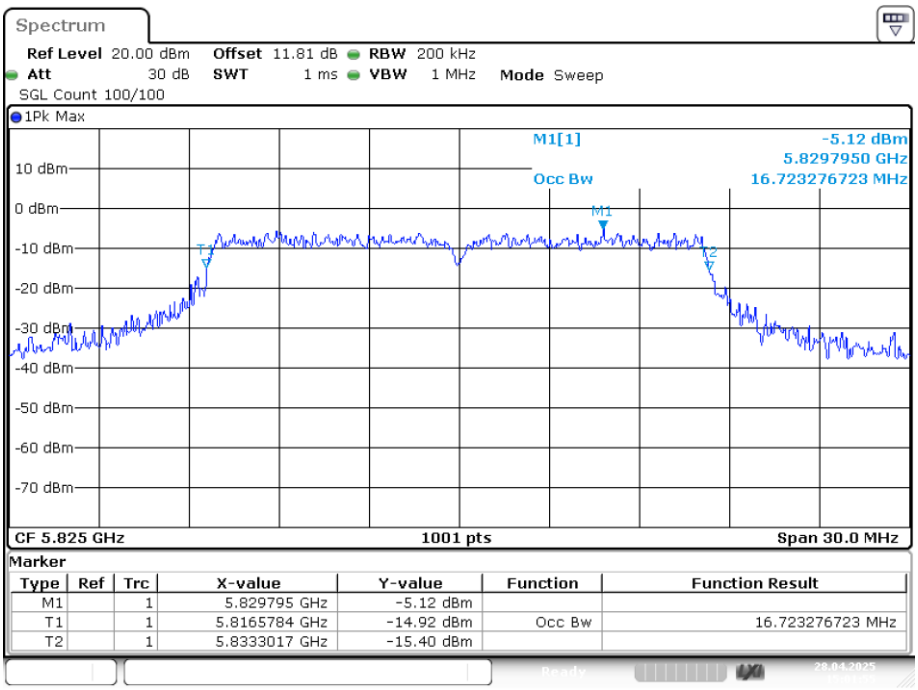
Date: 28.APR.2025 13:01:13

OBW NVNT a 5785MHz Ant1



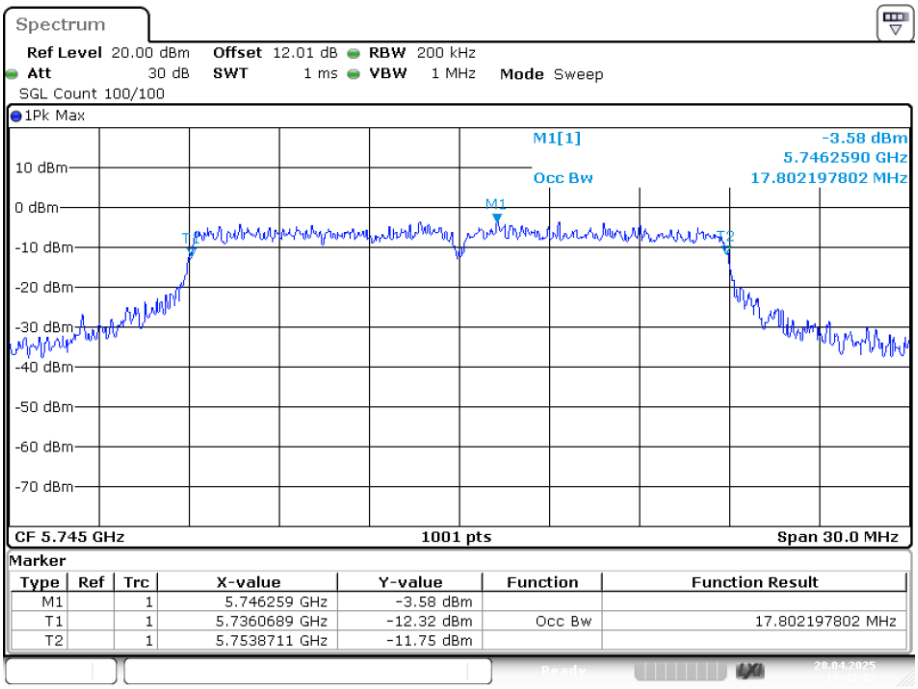
Date: 28.APR.2025 13:07:45

OBW NVNT a 5825MHz Ant1



Date: 28.APR.2025 15:01:55

OBW NVNT ac20 5745MHz Ant1



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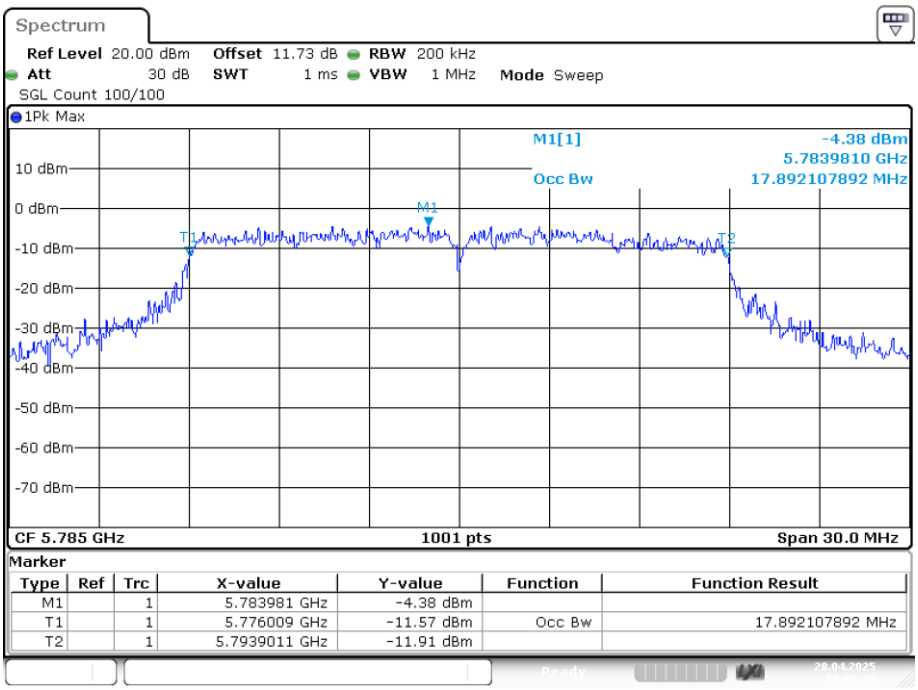
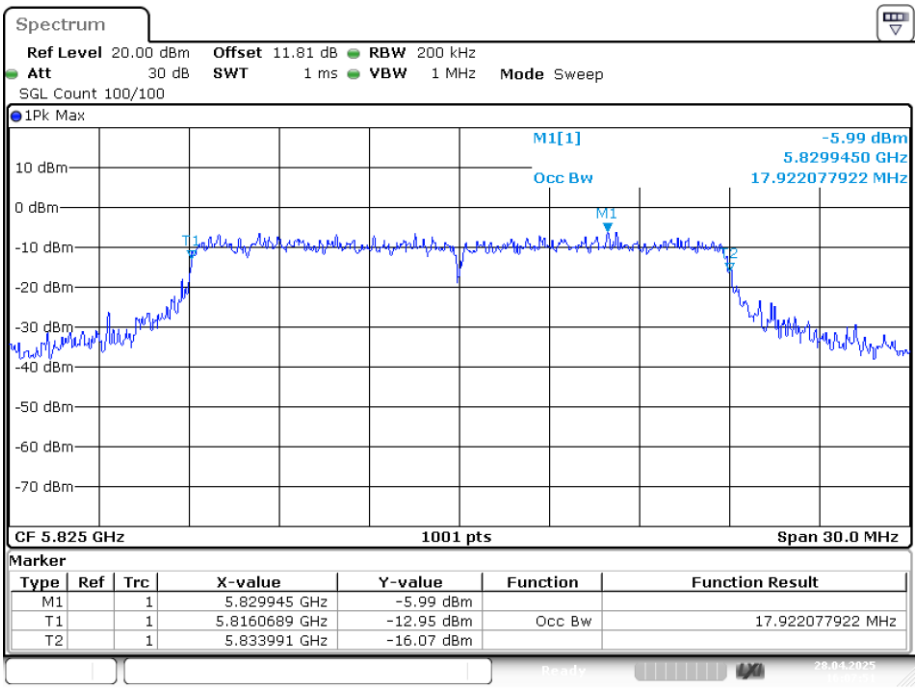
OBW NVNT ac20 5785MHz Ant1



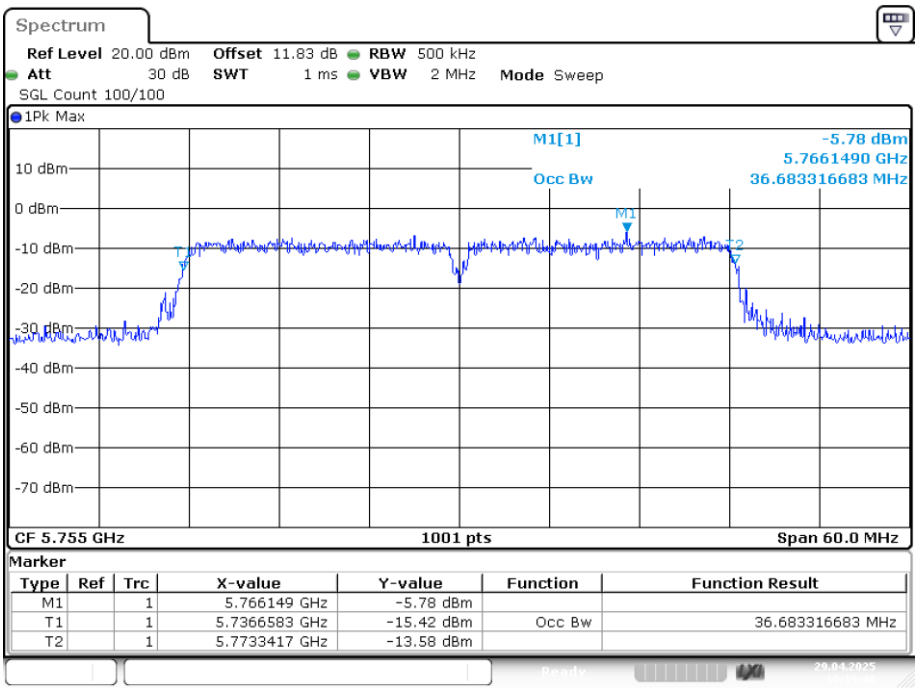
Date: 28.APR.2025 16:05:28

OBW NVNT ac20 5825MHz Ant1



Date: 28.APR.2025 16:07:50

OBW NVNT ac40 5755MHz Ant1



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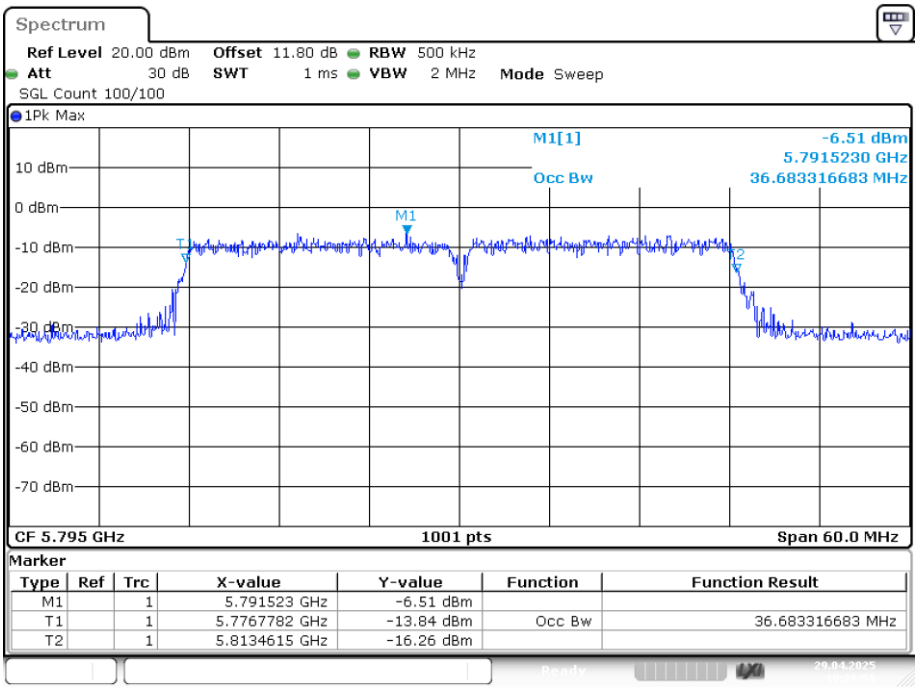
OBW NVNT ac40 5795MHz Ant1



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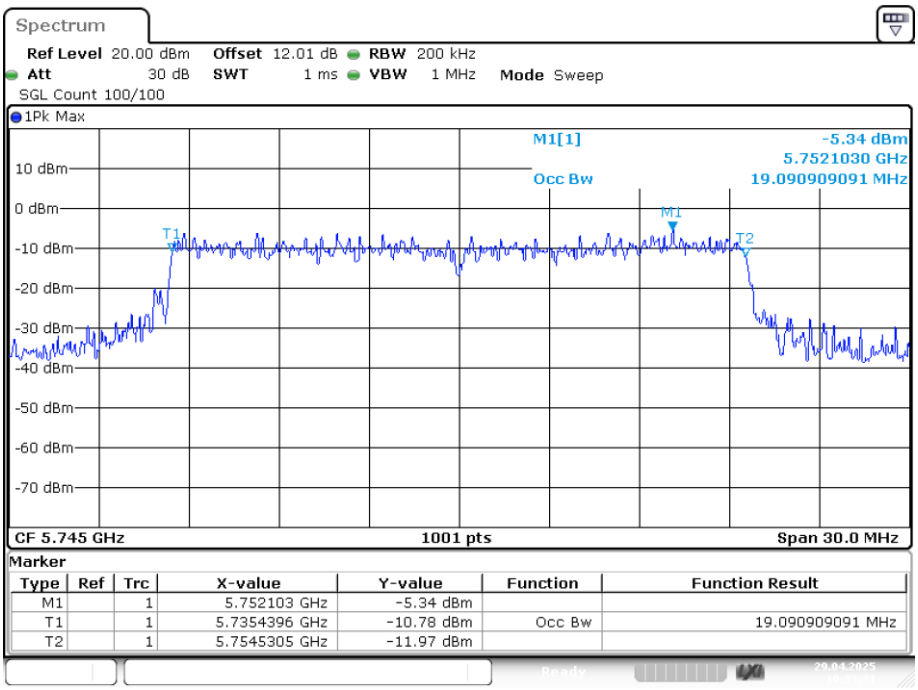
OBW NVNT ax20 5745MHz Ant1



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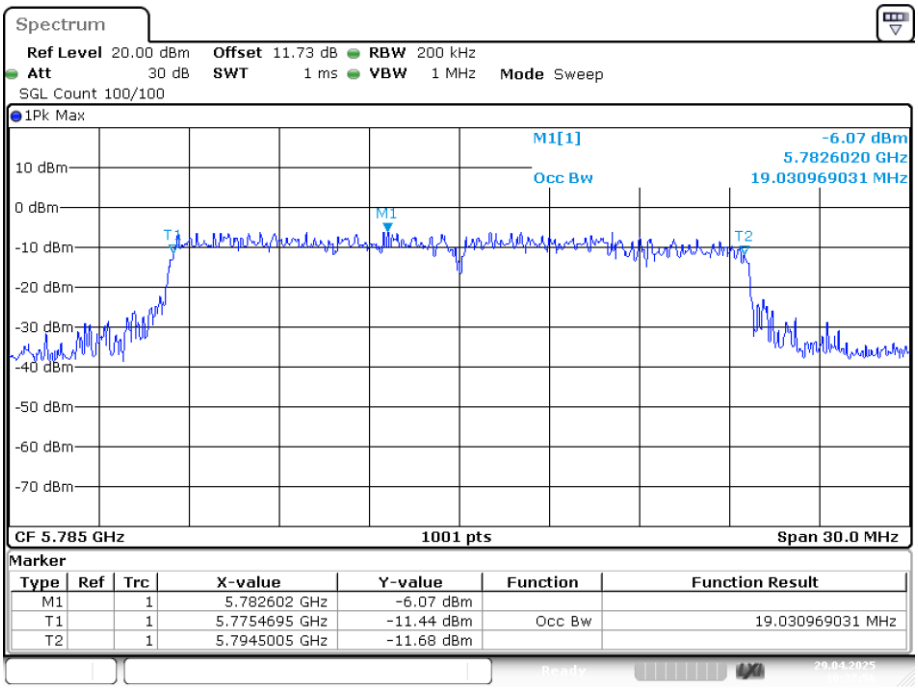

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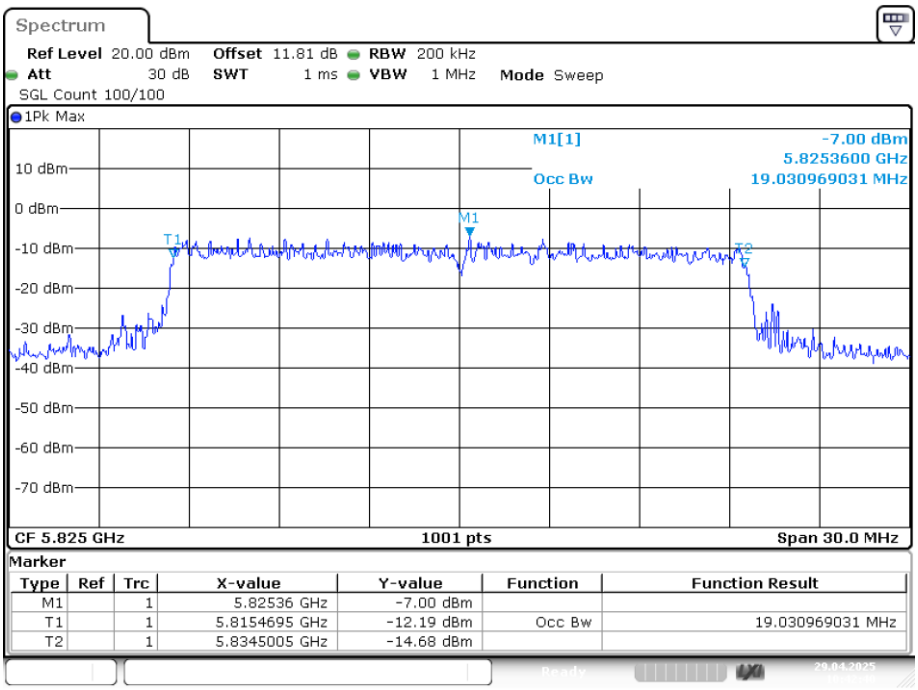
OBW NVNT ax20 5825MHz Ant1



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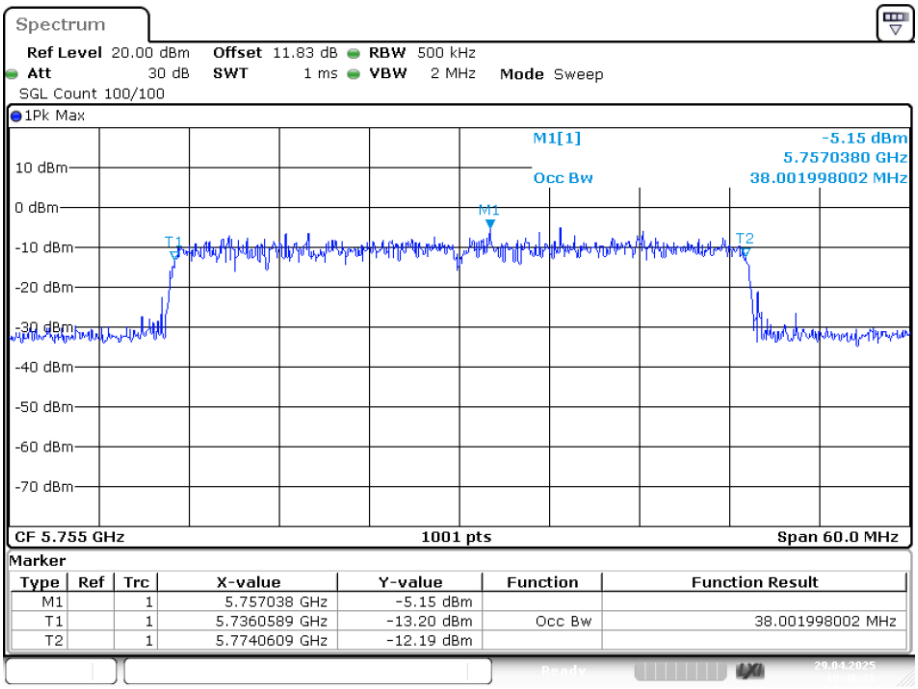
OBW NVNT ax40 5755MHz Ant1



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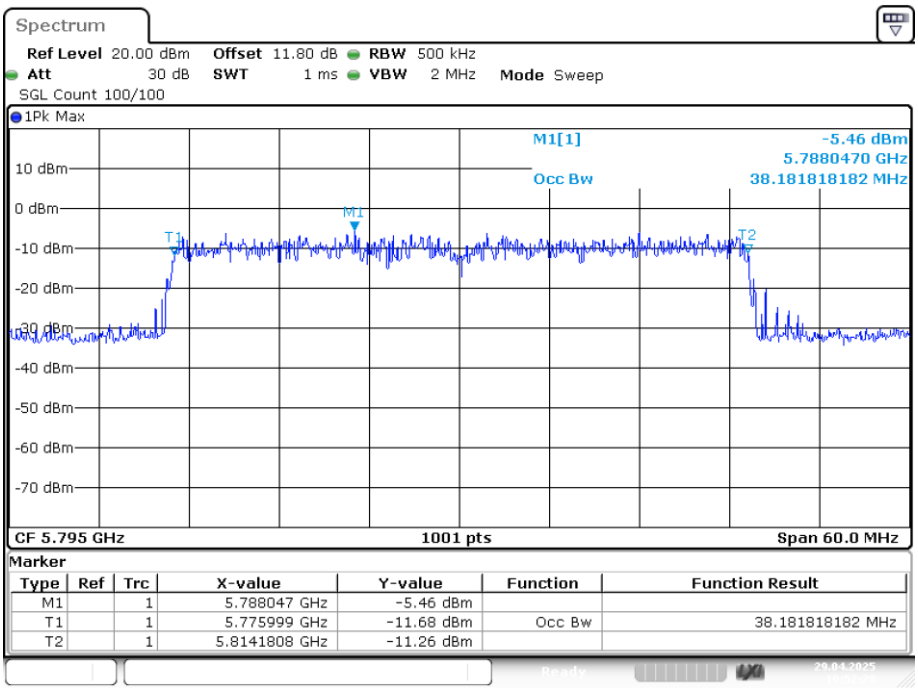
OBW NVNT ax40 5795MHz Ant1



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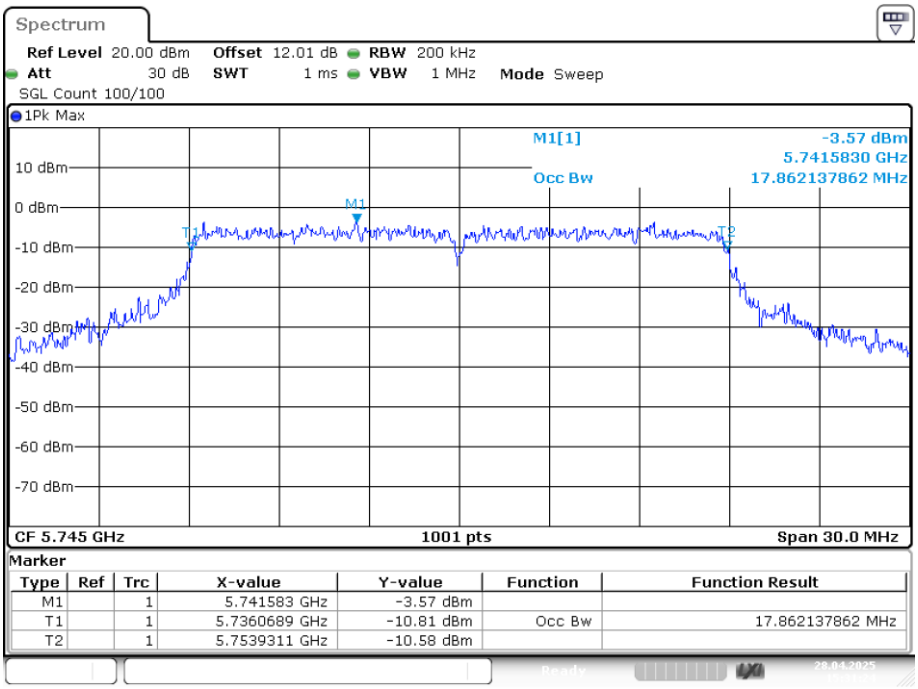
OBW NVNT n20 5745MHz Ant1



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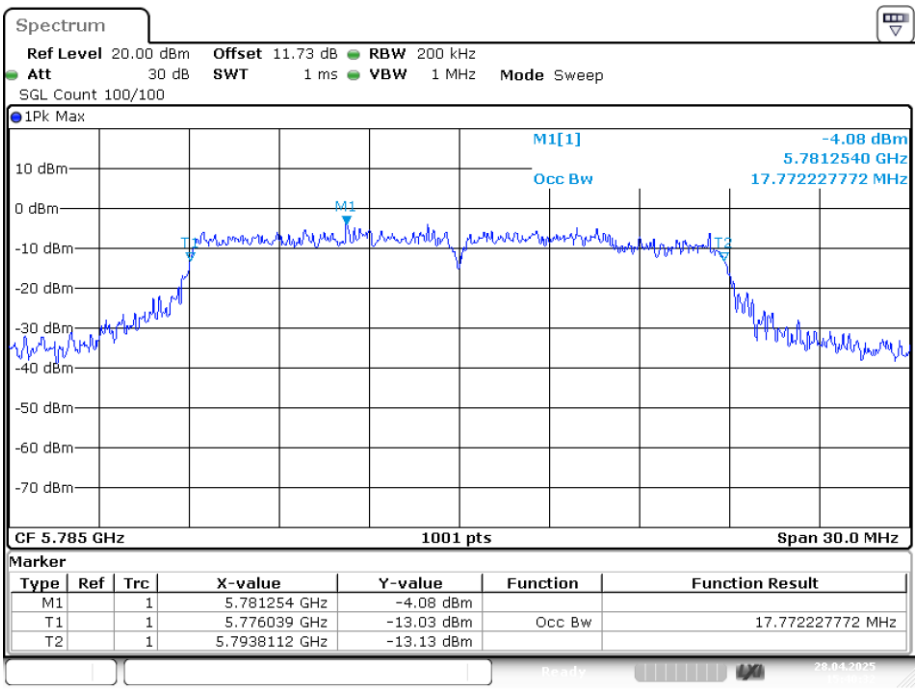
OBW NVNT n20 5785MHz Ant1



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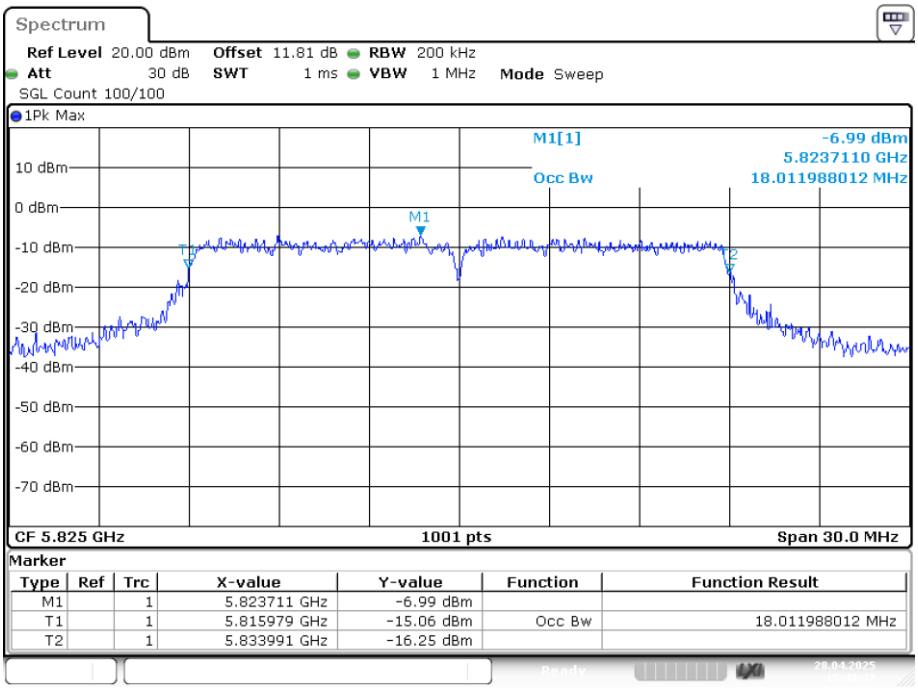
OBW NVNT n20 5825MHz Ant1



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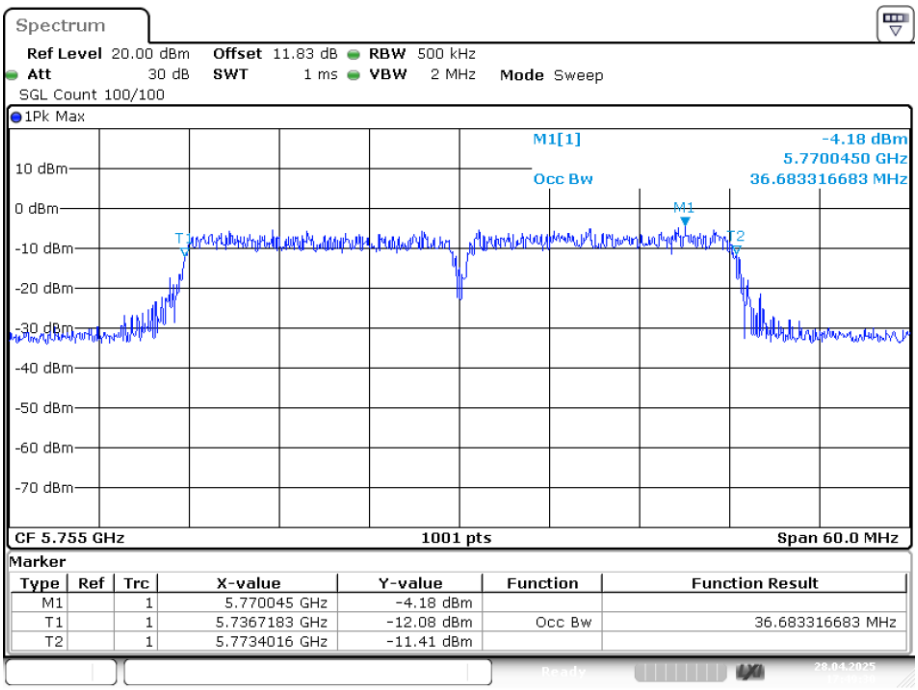
OBW NVNT n40 5755MHz Ant1



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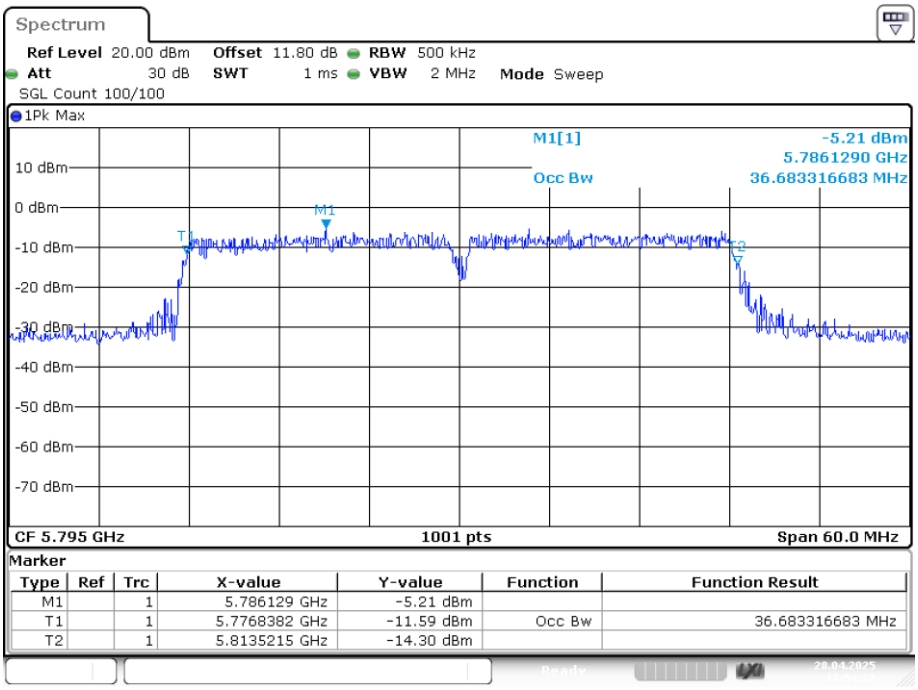
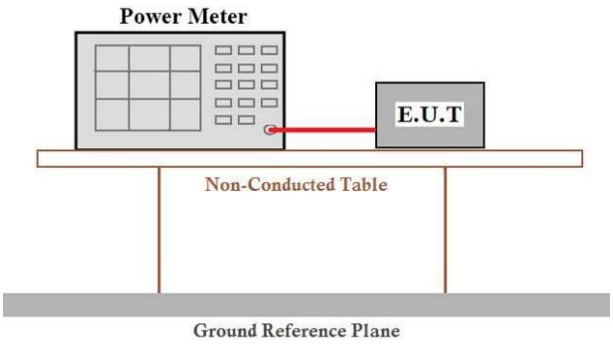
OBW NVNT n40 5795MHz Ant1



Date: 28.APR.2025 17:54:28

4.4 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	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.
Test setup:	
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., 10log(1/0.25) if the duty cycle is 25 percent).
Test results:	Pass

Measurement Data

Band 1 (5150-5250 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle Factor (dB)	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	0.11	13.753	13.863	24	Pass
NVNT	a	5200	Ant1	0.11	14.175	14.285	24	Pass
NVNT	a	5240	Ant1	0.11	13.721	13.831	24	Pass
NVNT	ac20	5180	Ant1	0.12	13.985	14.105	24	Pass
NVNT	ac20	5200	Ant1	0.11	14.064	14.174	24	Pass
NVNT	ac20	5240	Ant1	0.12	14.127	14.247	24	Pass
NVNT	ac40	5190	Ant1	0.23	14.1	14.33	24	Pass
NVNT	ac40	5230	Ant1	0.23	14.408	14.638	24	Pass
NVNT	ax20	5180	Ant1	0.12	14.073	14.193	24	Pass
NVNT	ax20	5200	Ant1	0.12	13.474	13.594	24	Pass
NVNT	ax20	5240	Ant1	0.11	13.837	13.947	24	Pass
NVNT	ax40	5190	Ant1	0.23	13.176	13.406	24	Pass
NVNT	ax40	5230	Ant1	0.23	13.485	13.715	24	Pass
NVNT	n20	5180	Ant1	0.12	14.003	14.123	24	Pass
NVNT	n20	5200	Ant1	0.12	14.084	14.204	24	Pass
NVNT	n20	5240	Ant1	0.12	14.129	14.249	24	Pass
NVNT	n40	5190	Ant1	0.24	13.958	14.198	24	Pass
NVNT	n40	5230	Ant1	0.23	14.322	14.552	24	Pass

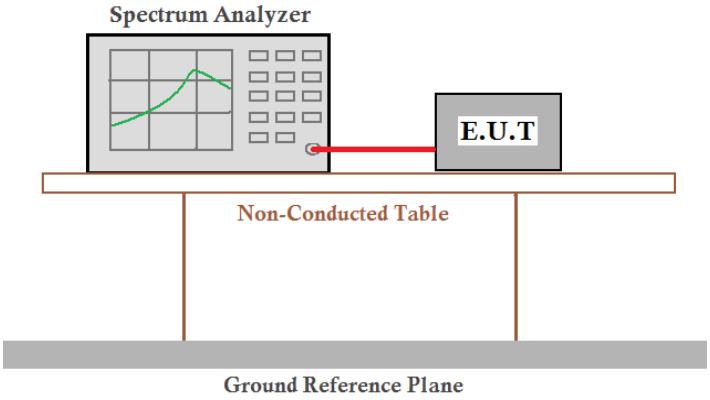
Note: Total Power= Conducted Power+ Duty Cycle Factor

Band 4 (5725 – 5850 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle Factor (dB)	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	0.11	13.961	14.071	30	Pass
NVNT	a	5785	Ant1	0.11	13.297	13.407	30	Pass
NVNT	a	5825	Ant1	0.11	12.638	12.748	30	Pass
NVNT	ac20	5745	Ant1	0.11	14.329	14.439	30	Pass
NVNT	ac20	5785	Ant1	0.11	13.812	13.922	30	Pass
NVNT	ac20	5825	Ant1	0.11	13.588	13.698	30	Pass
NVNT	ac40	5755	Ant1	0.23	13.225	13.455	30	Pass
NVNT	ac40	5795	Ant1	0.22	12.138	12.358	30	Pass
NVNT	ax20	5745	Ant1	0.11	14.113	14.223	30	Pass
NVNT	ax20	5785	Ant1	0.11	13.295	13.405	30	Pass
NVNT	ax20	5825	Ant1	0.12	12.792	12.912	30	Pass
NVNT	ax40	5755	Ant1	0.23	13.265	13.495	30	Pass
NVNT	ax40	5795	Ant1	0.22	12.698	12.918	30	Pass
NVNT	n20	5745	Ant1	0.12	14.166	14.286	30	Pass
NVNT	n20	5785	Ant1	0.12	13.515	13.635	30	Pass
NVNT	n20	5825	Ant1	0.12	13.235	13.355	30	Pass
NVNT	n40	5755	Ant1	0.24	13.99	14.23	30	Pass
NVNT	n40	5795	Ant1	0.23	13.376	13.606	30	Pass

Note: Total Power= Conducted Power+ Duty Cycle Factor

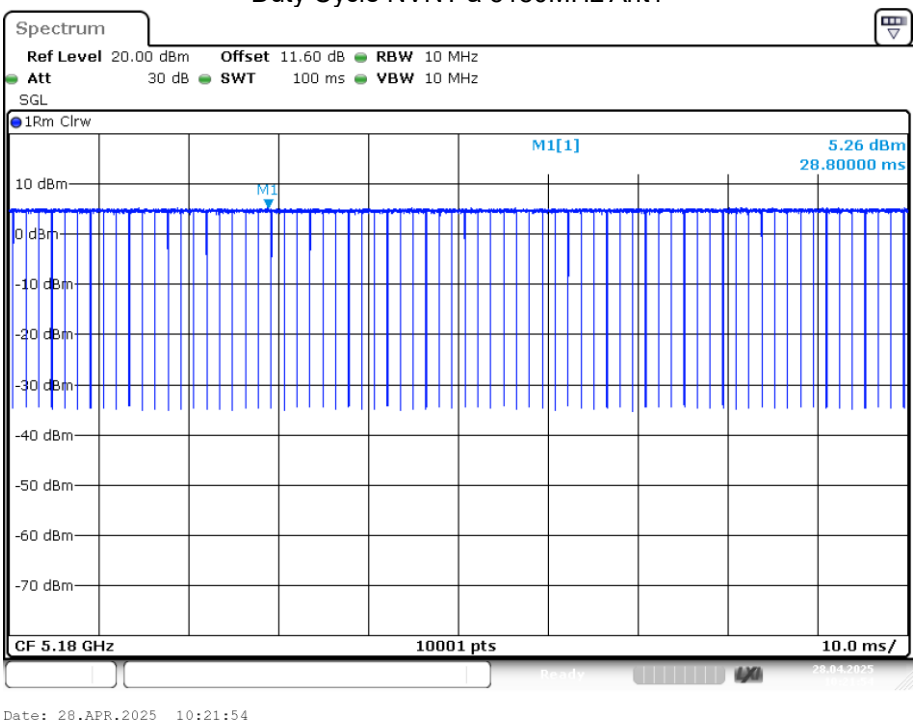
4.5 Duty Cycle

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	/
Test setup:	
Test procedure:	a) A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on and off times of the transmitted signal. 789033 D02 General UNII Test Procedures New Rules v02r01 Page 3 b) Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak
Test results:	Pass

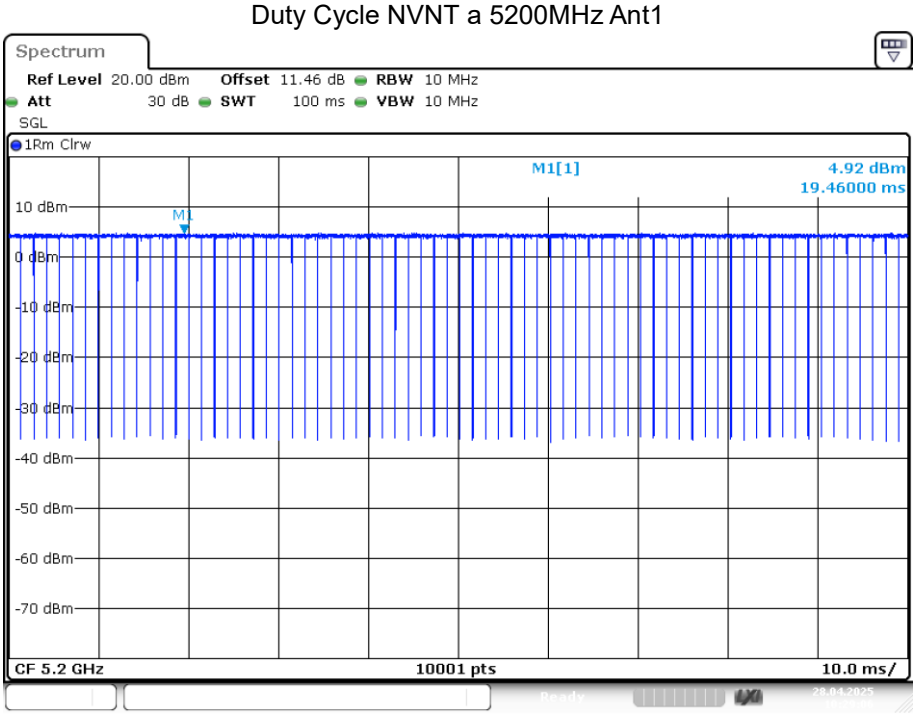
U-NII 1

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	97.52	0.11
NVNT	a	5200	Ant1	97.59	0.11
NVNT	a	5240	Ant1	97.59	0.11
NVNT	ac20	5180	Ant1	97.38	0.12
NVNT	ac20	5200	Ant1	97.39	0.11
NVNT	ac20	5240	Ant1	97.34	0.12
NVNT	ac40	5190	Ant1	94.77	0.23
NVNT	ac40	5230	Ant1	94.87	0.23
NVNT	ax20	5180	Ant1	97.38	0.12
NVNT	ax20	5200	Ant1	97.36	0.12
NVNT	ax20	5240	Ant1	97.39	0.11
NVNT	ax40	5190	Ant1	94.79	0.23
NVNT	ax40	5230	Ant1	94.81	0.23
NVNT	n20	5180	Ant1	97.36	0.12
NVNT	n20	5200	Ant1	97.34	0.12
NVNT	n20	5240	Ant1	97.33	0.12
NVNT	n40	5190	Ant1	94.55	0.24
NVNT	n40	5230	Ant1	94.82	0.23

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1



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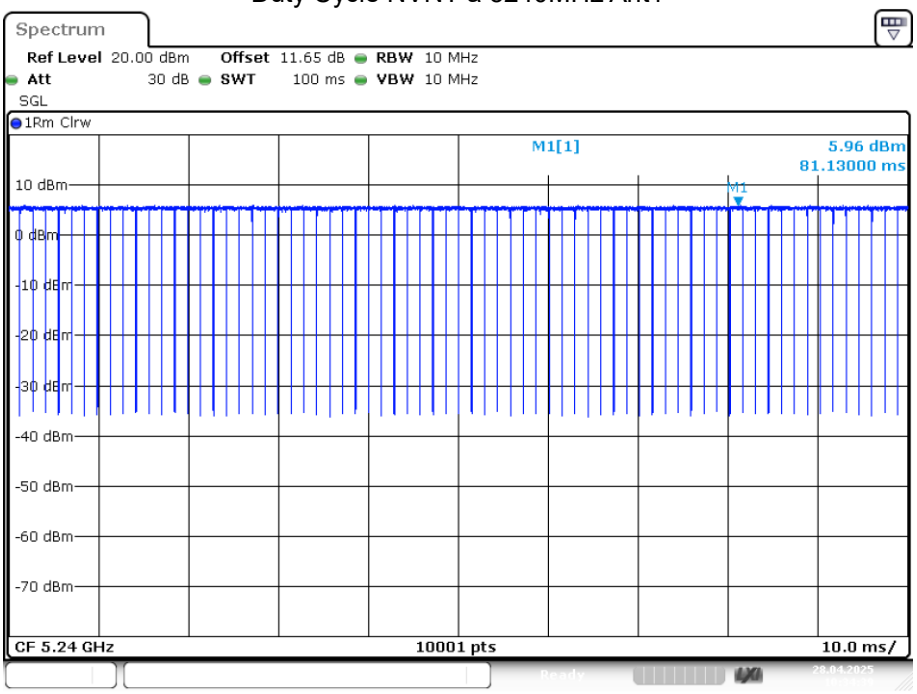
Duty Cycle NVNT a 5240MHz Ant1



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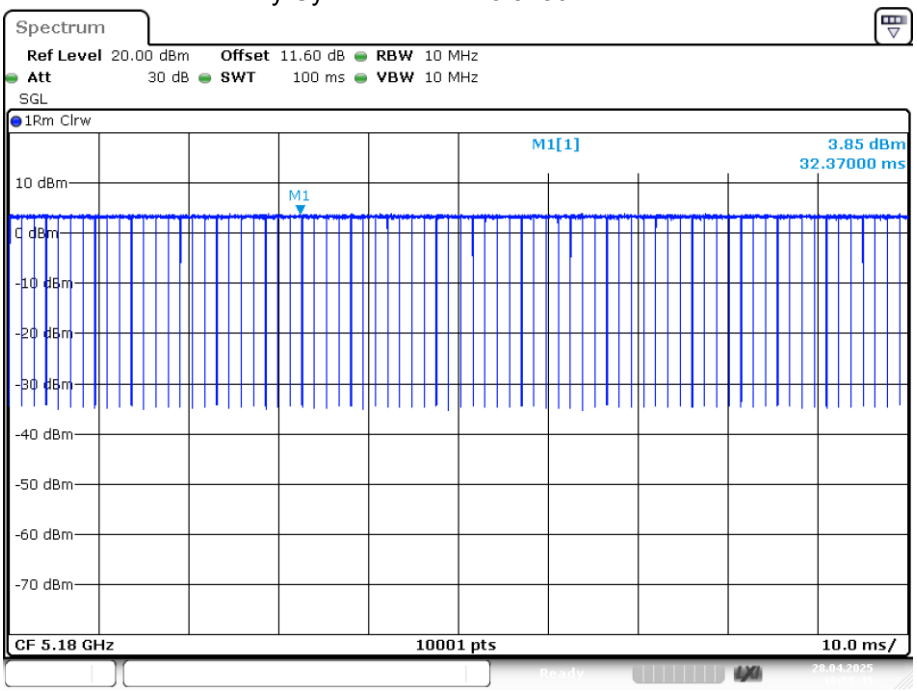
Duty Cycle NVNT ac20 5180MHz Ant1



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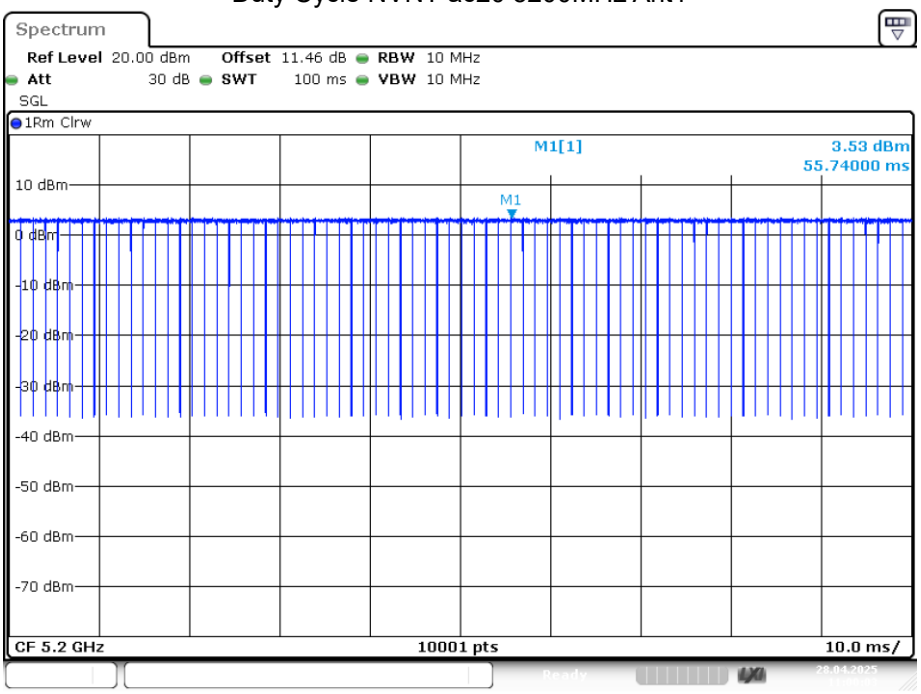
Duty Cycle NVNT ac20 5200MHz Ant1



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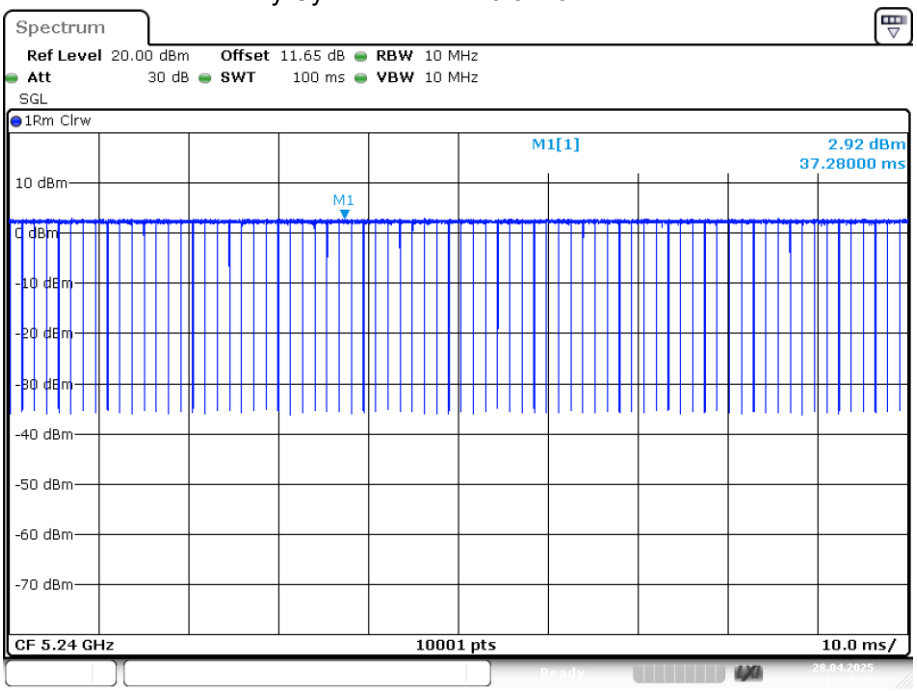
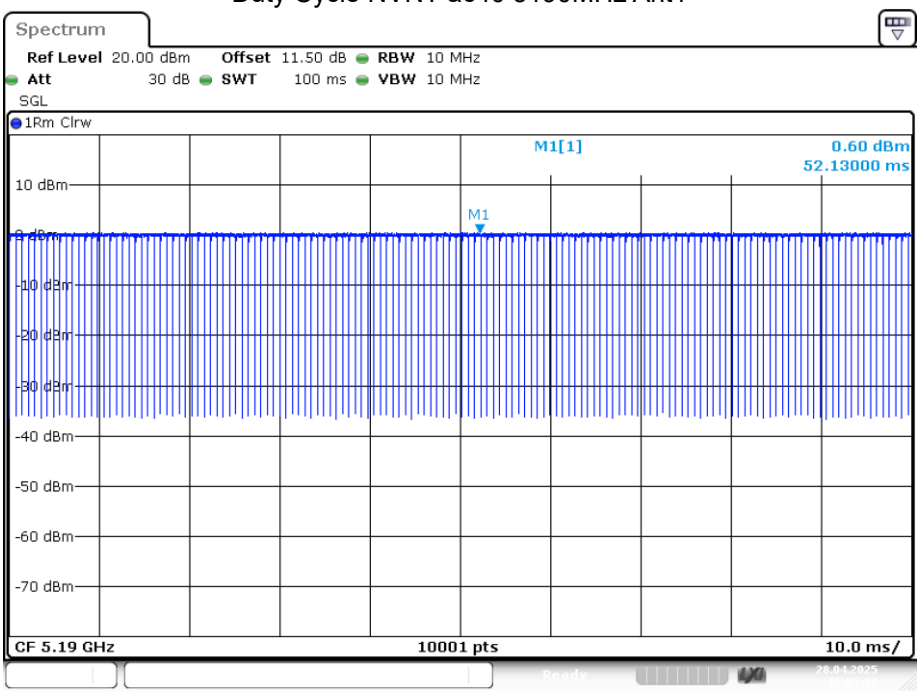
Duty Cycle NVNT ac20 5240MHz Ant1



Date: 28.APR.2025 11:15:10

Duty Cycle NVNT ac40 5190MHz Ant1



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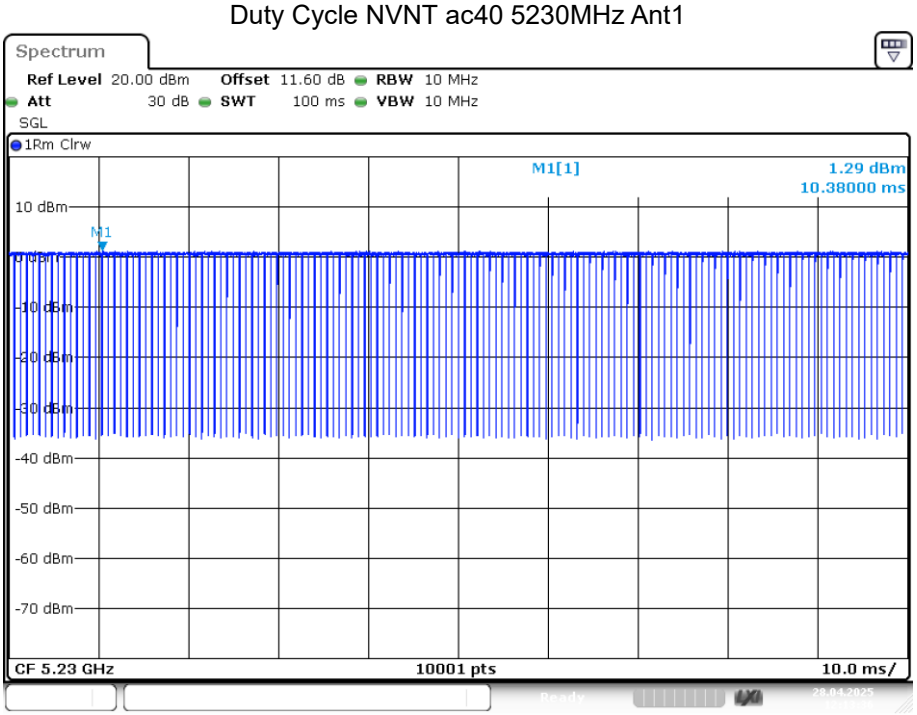
Duty Cycle NVNT ac40 5230MHz Ant1



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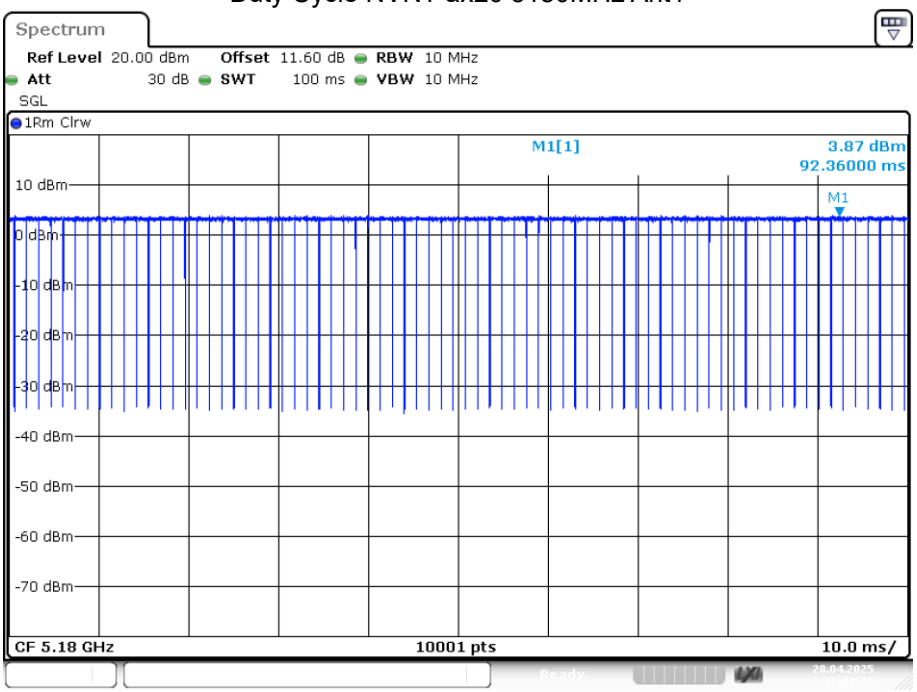
Duty Cycle NVNT ax20 5180MHz Ant1



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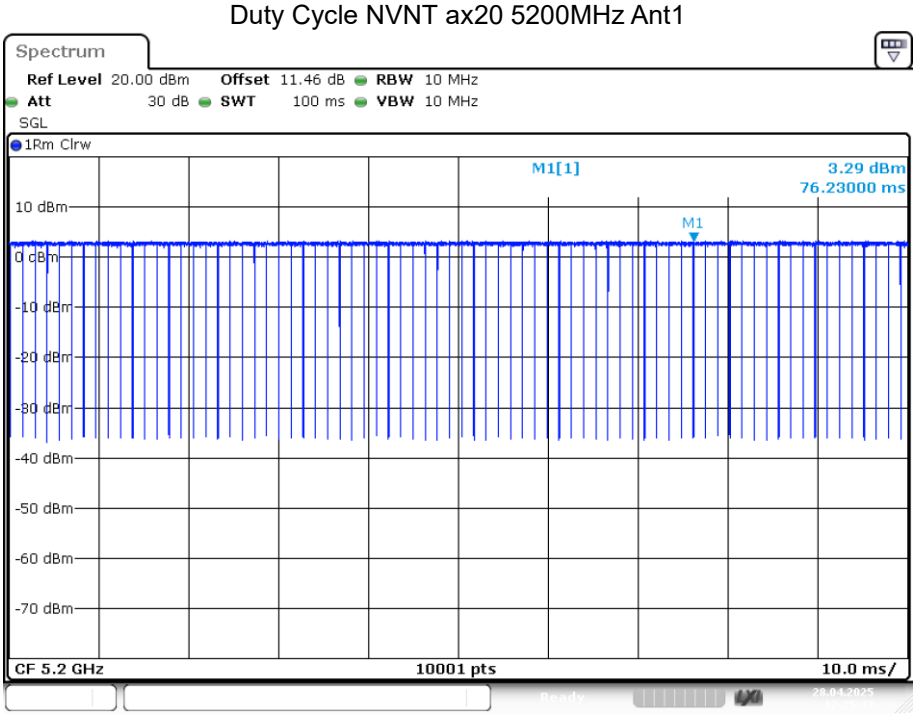
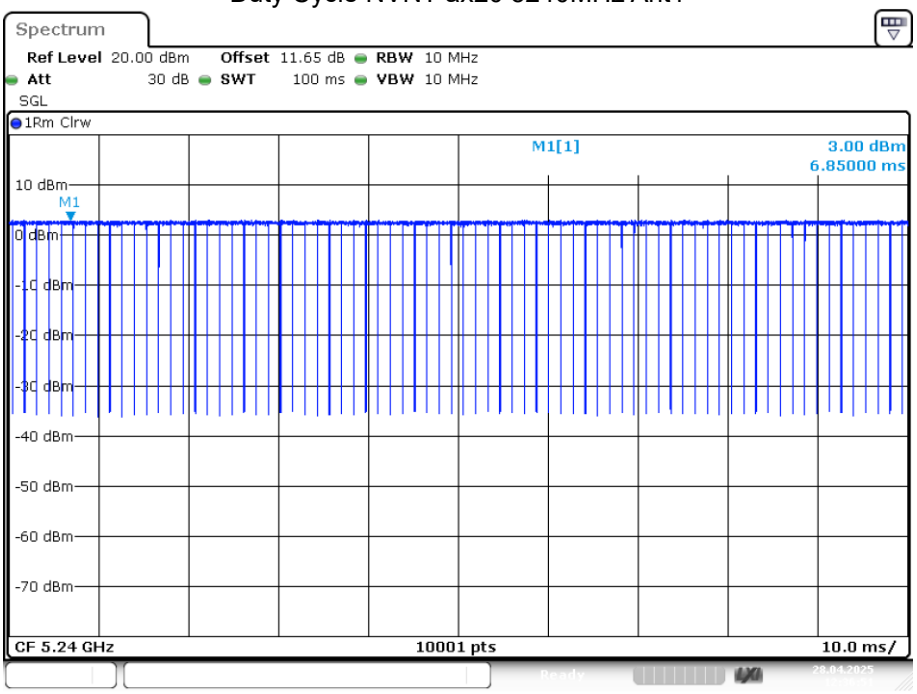
Duty Cycle NVNT ax20 5200MHz Ant1



Date: 28.APR.2025 12:25:43

Duty Cycle NVNT ax20 5240MHz Ant1



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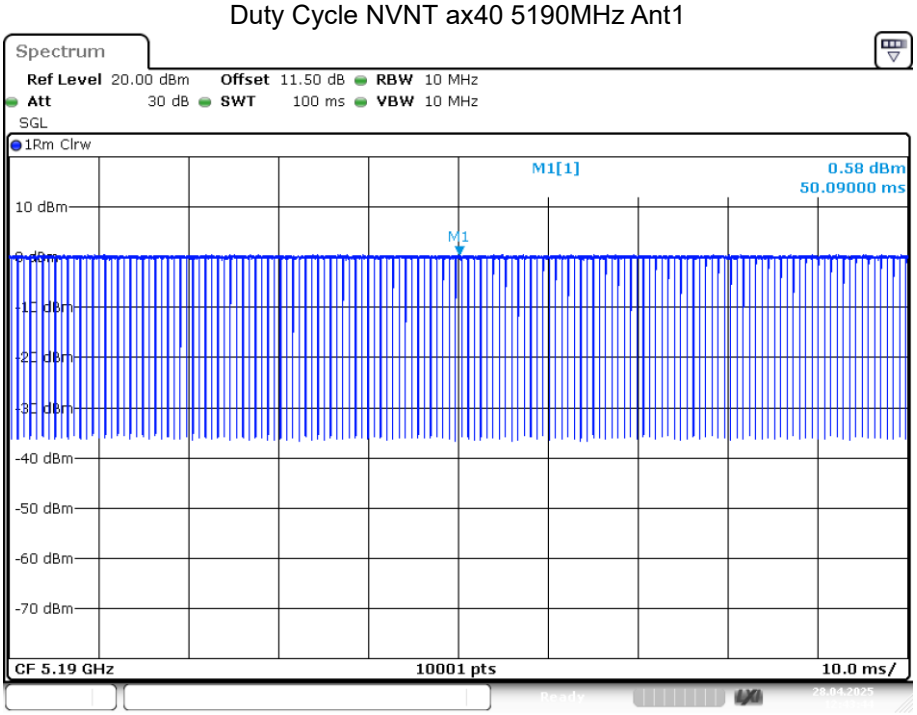
Duty Cycle NVNT ax40 5190MHz Ant1



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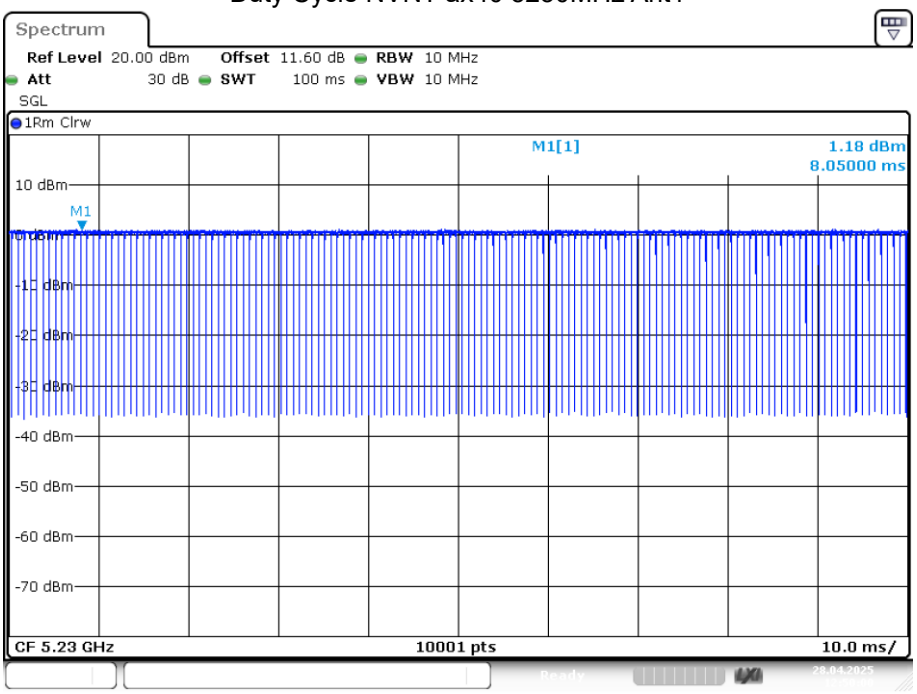
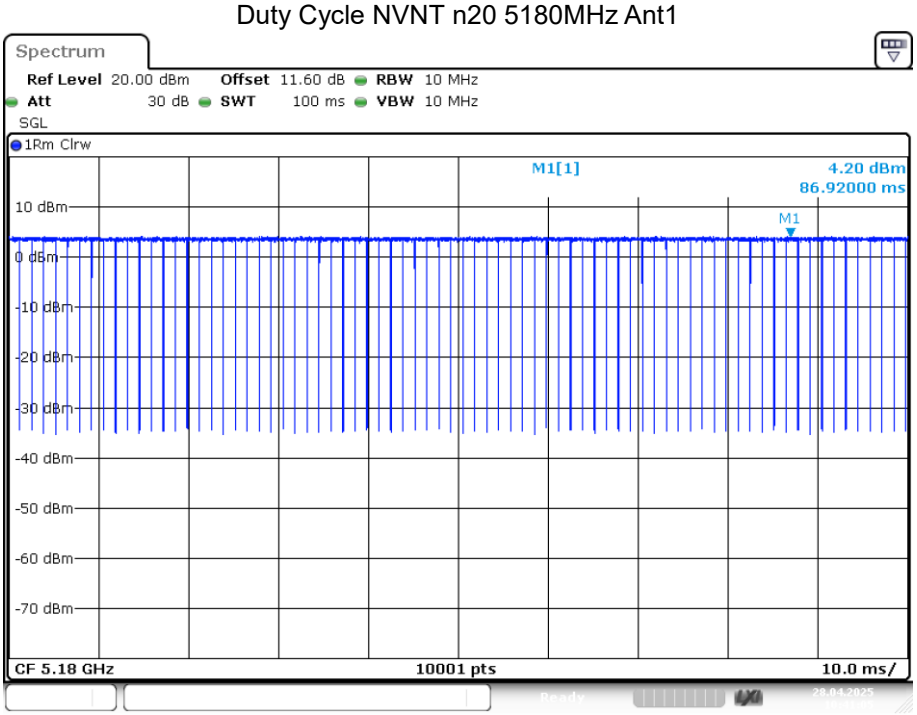
Duty Cycle NVNT ax40 5230MHz Ant1



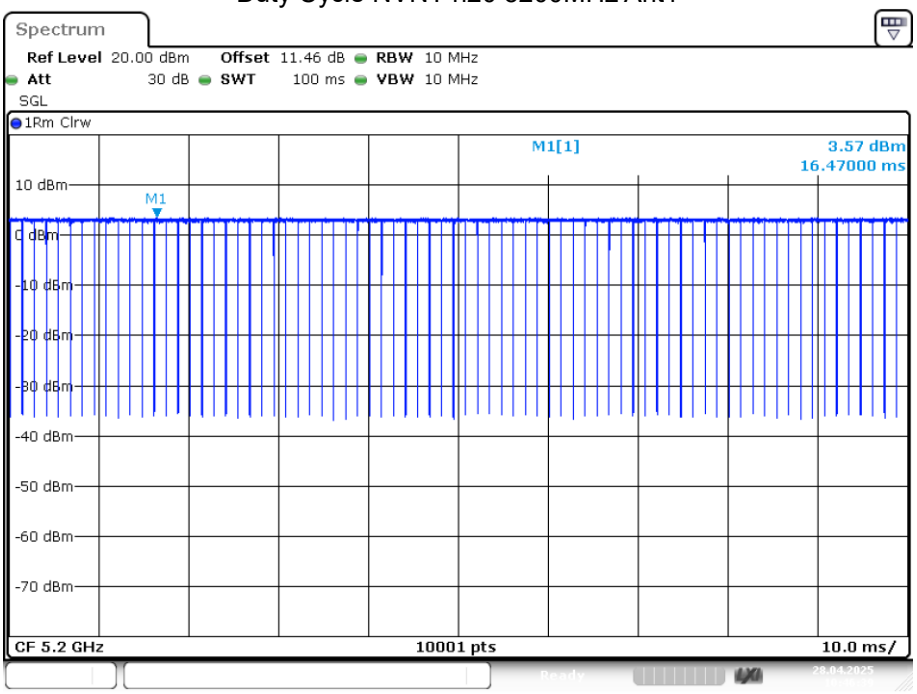
Date: 28.APR.2025 12:49:59

Duty Cycle NVNT n20 5180MHz Ant1



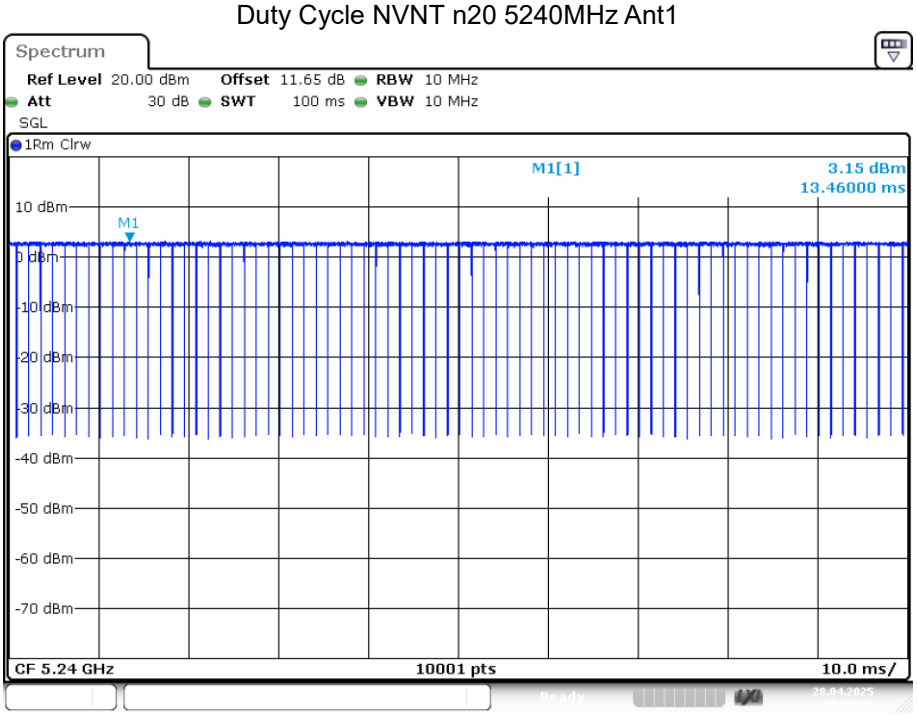
Date: 28.APR.2025 10:41:05

Duty Cycle NVNT n20 5200MHz Ant1



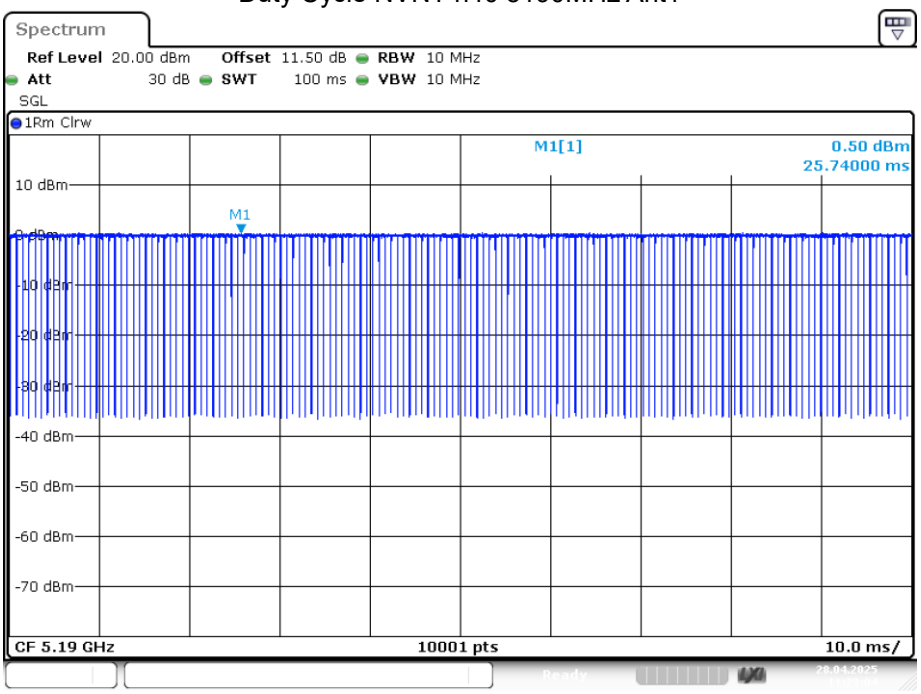
Date: 28.APR.2025 10:46:38

Duty Cycle NVNT n20 5240MHz Ant1



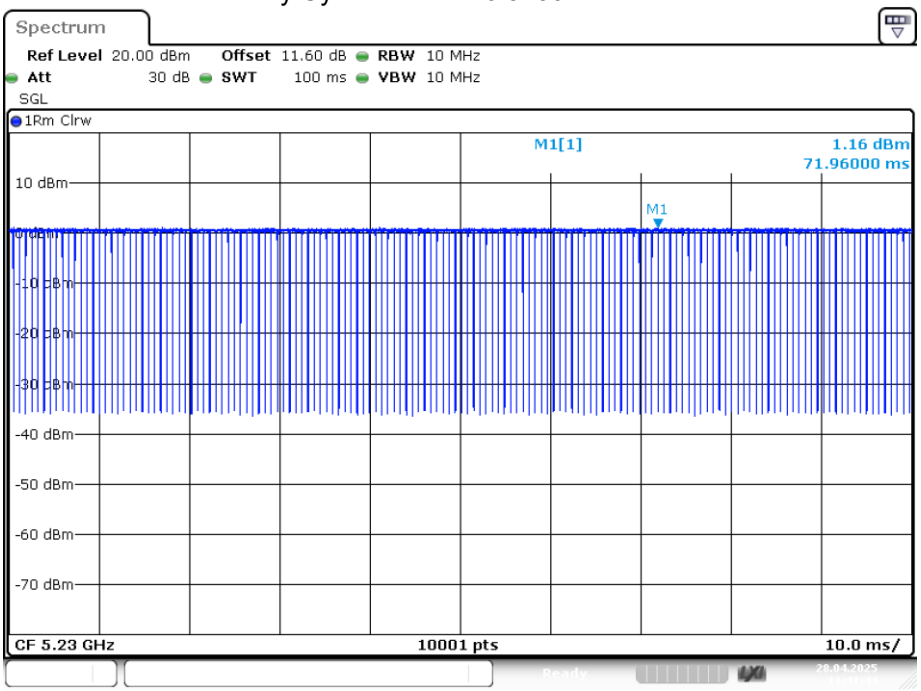
Date: 28.APR.2025 10:52:30

Duty Cycle NVNT n40 5190MHz Ant1



Date: 28.APR.2025 11:23:03

Duty Cycle NVNT n40 5230MHz Ant1

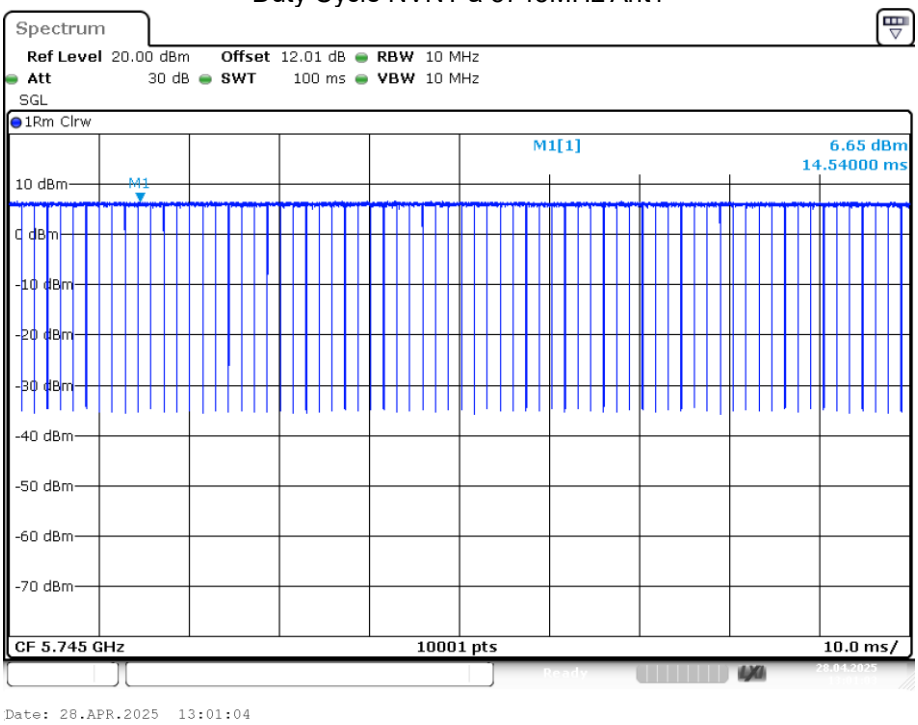


Date: 28.APR.2025 11:41:44

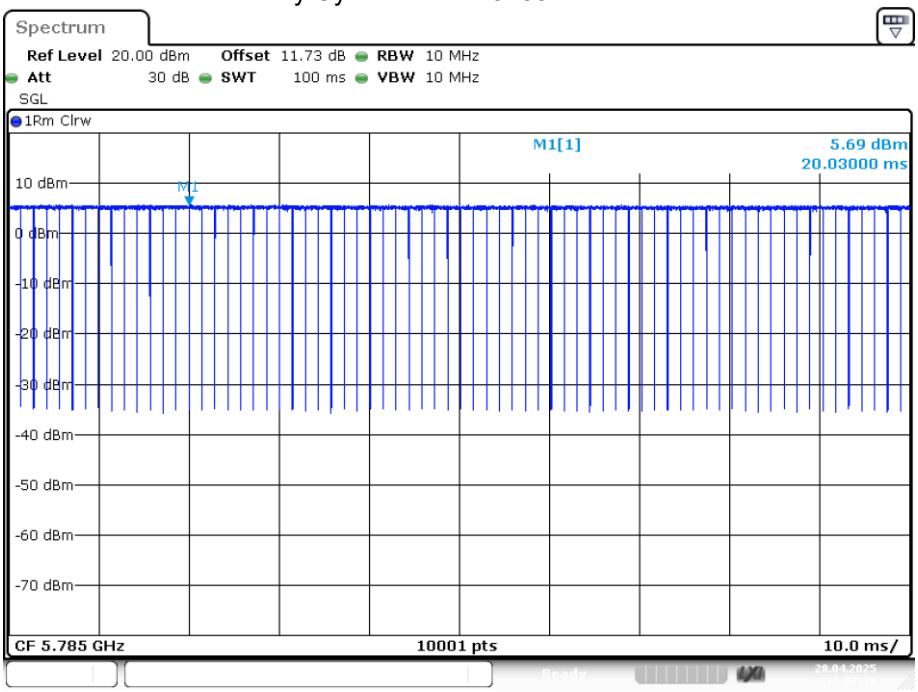
U-NII 3

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	97.57	0.11
NVNT	a	5785	Ant1	97.59	0.11
NVNT	a	5825	Ant1	97.56	0.11
NVNT	ac20	5745	Ant1	97.41	0.11
NVNT	ac20	5785	Ant1	97.42	0.11
NVNT	ac20	5825	Ant1	97.41	0.11
NVNT	ac40	5755	Ant1	94.94	0.23
NVNT	ac40	5795	Ant1	95	0.22
NVNT	ax20	5745	Ant1	97.42	0.11
NVNT	ax20	5785	Ant1	97.39	0.11
NVNT	ax20	5825	Ant1	97.38	0.12
NVNT	ax40	5755	Ant1	94.94	0.23
NVNT	ax40	5795	Ant1	94.98	0.22
NVNT	n20	5745	Ant1	97.38	0.12
NVNT	n20	5785	Ant1	97.35	0.12
NVNT	n20	5825	Ant1	97.37	0.12
NVNT	n40	5755	Ant1	94.71	0.24
NVNT	n40	5795	Ant1	94.93	0.23

Duty Cycle NVNT a 5745MHz Ant1

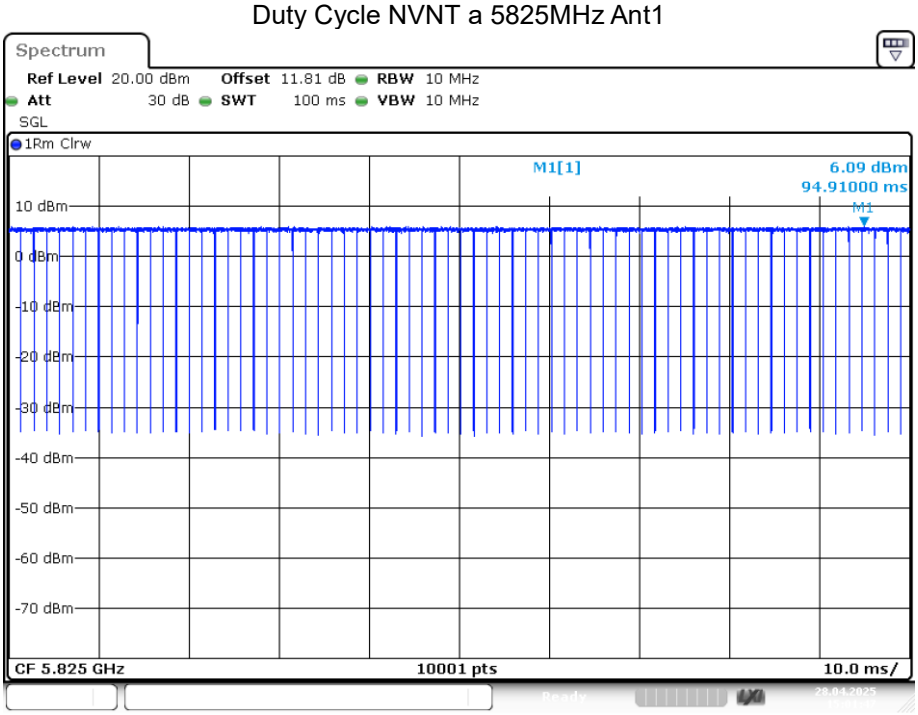


Duty Cycle NVNT a 5785MHz Ant1



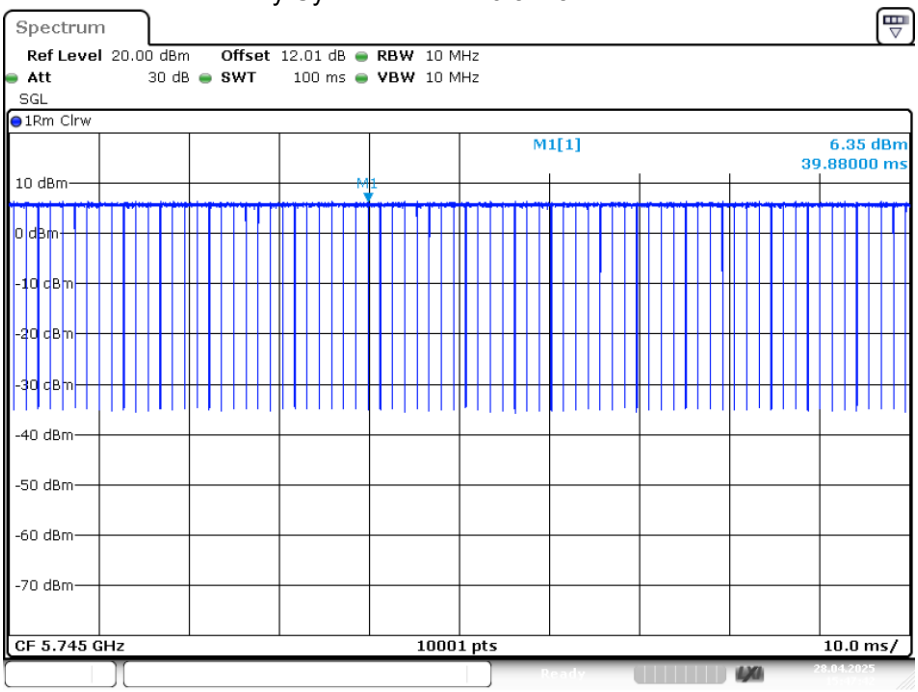
Date: 28.APR.2025 13:07:36

Duty Cycle NVNT a 5825MHz Ant1



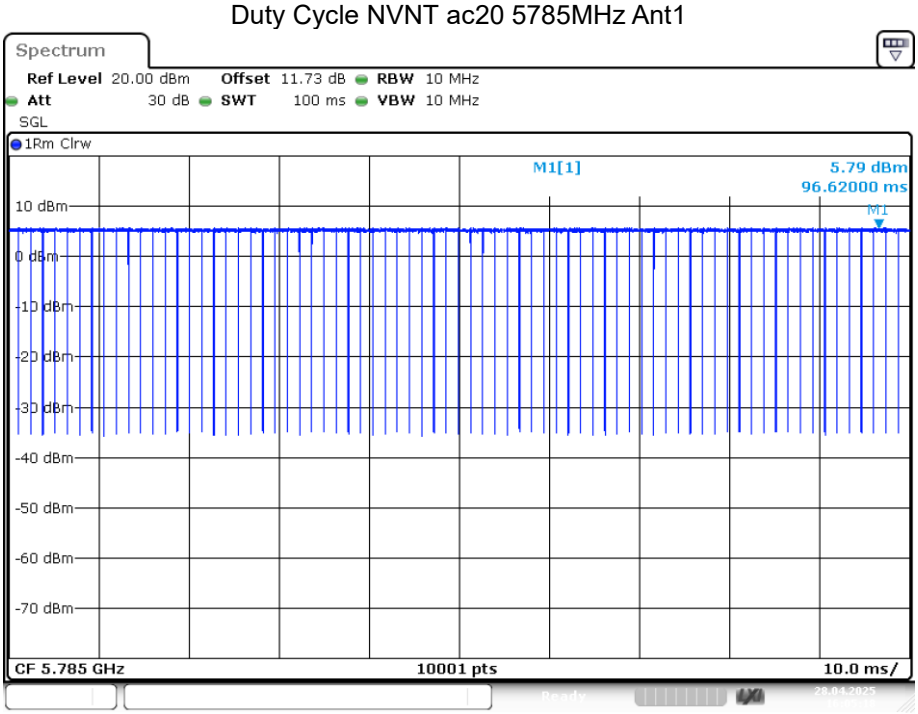
Date: 28.APR.2025 15:01:47

Duty Cycle NVNT ac20 5745MHz Ant1



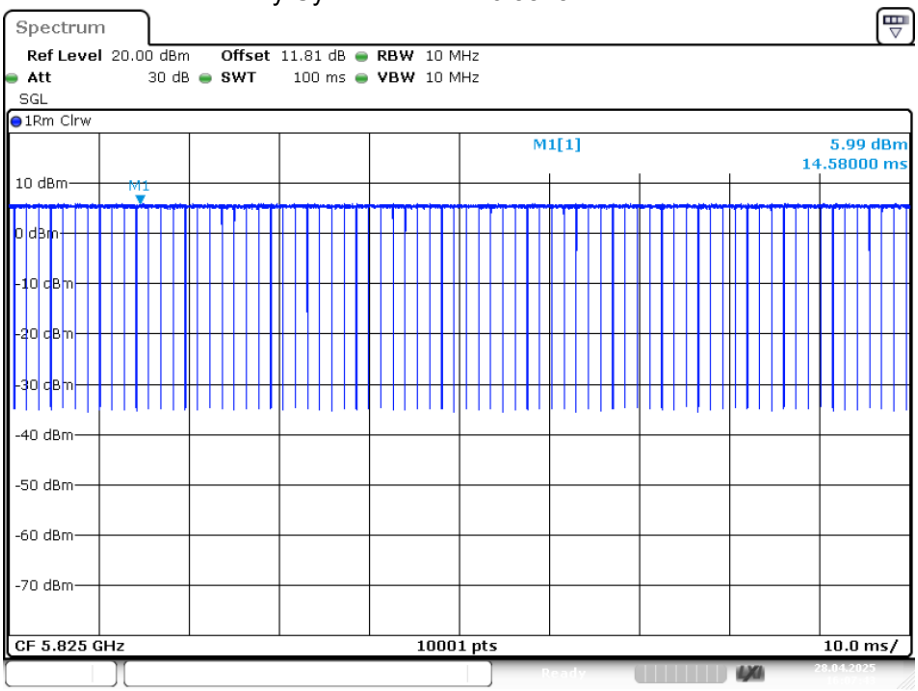
Date: 28.APR.2025 15:47:43

Duty Cycle NVNT ac20 5785MHz Ant1



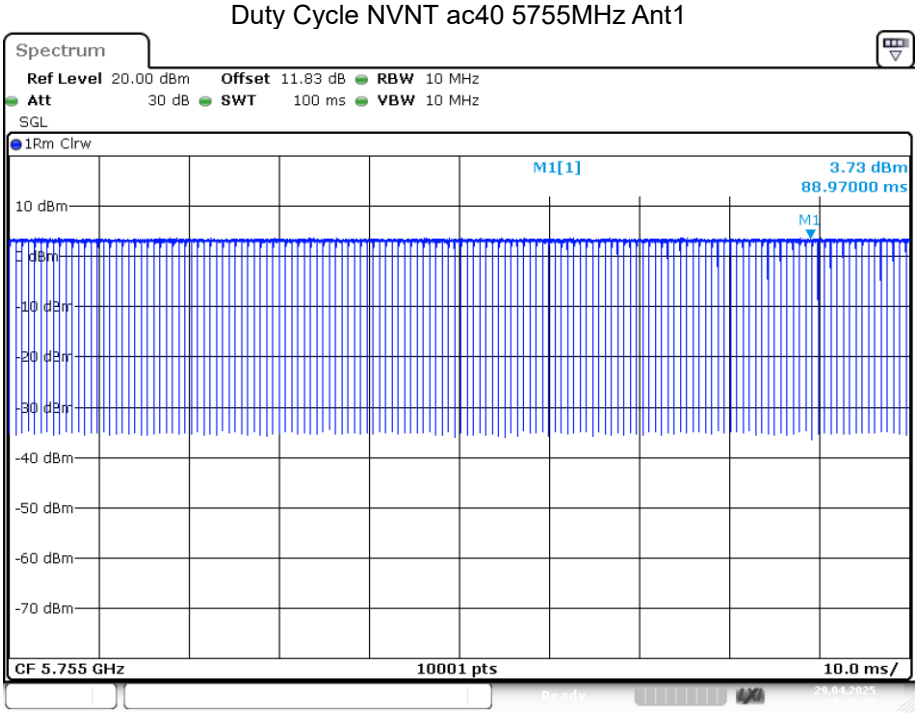
Date: 28.APR.2025 16:05:19

Duty Cycle NVNT ac20 5825MHz Ant1



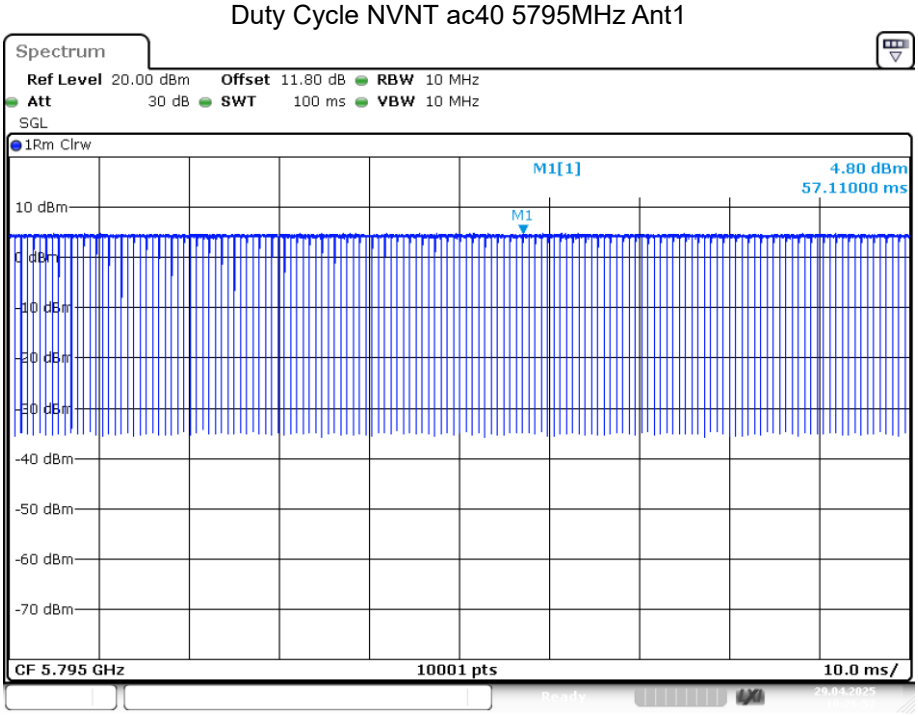
Date: 28.APR.2025 16:07:42

Duty Cycle NVNT ac40 5755MHz Ant1



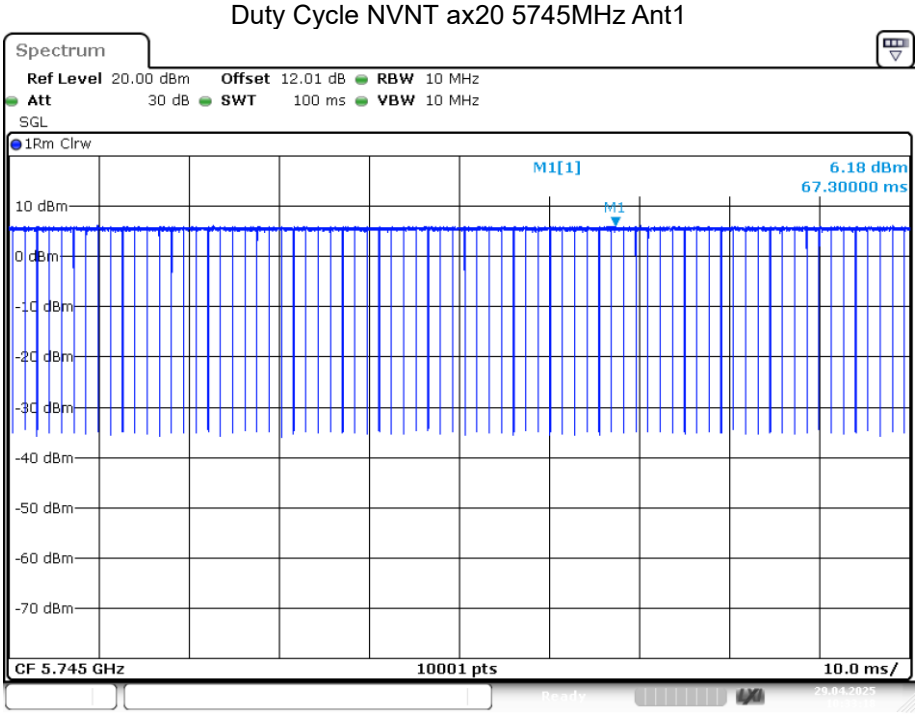
Date: 29.APR.2025 10:19:41

Duty Cycle NVNT ac40 5795MHz Ant1



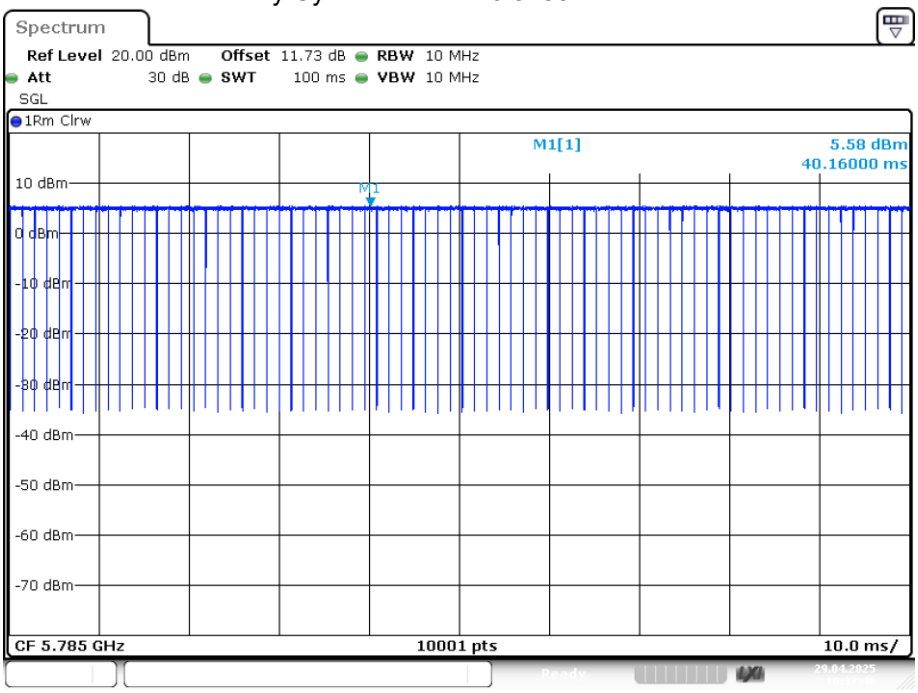
Date: 29.APR.2025 10:26:51

Duty Cycle NVNT ax20 5745MHz Ant1



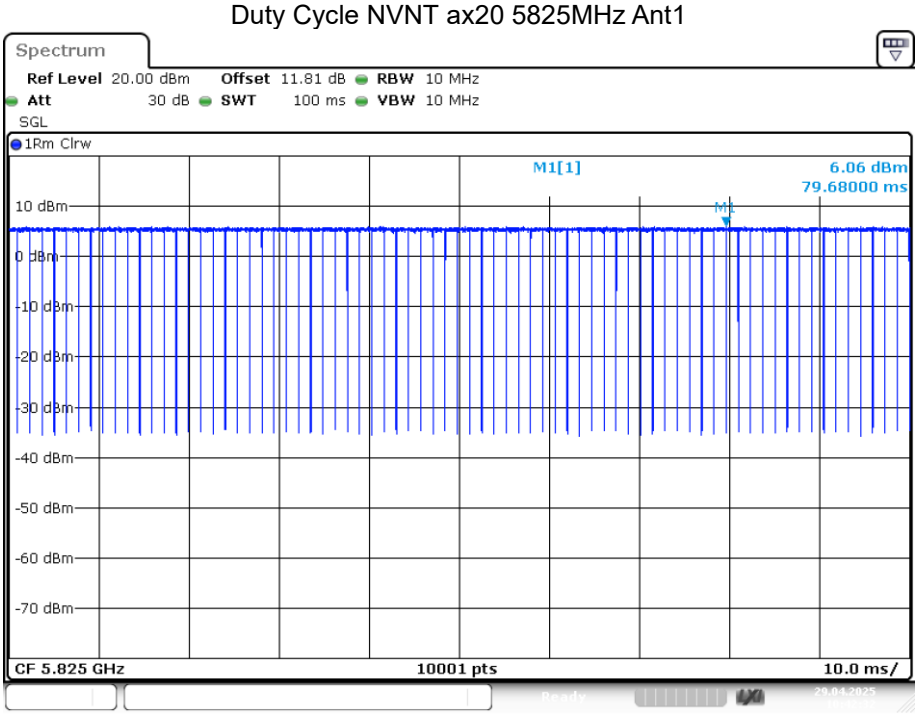
Date: 29.APR.2025 10:33:18

Duty Cycle NVNT ax20 5785MHz Ant1



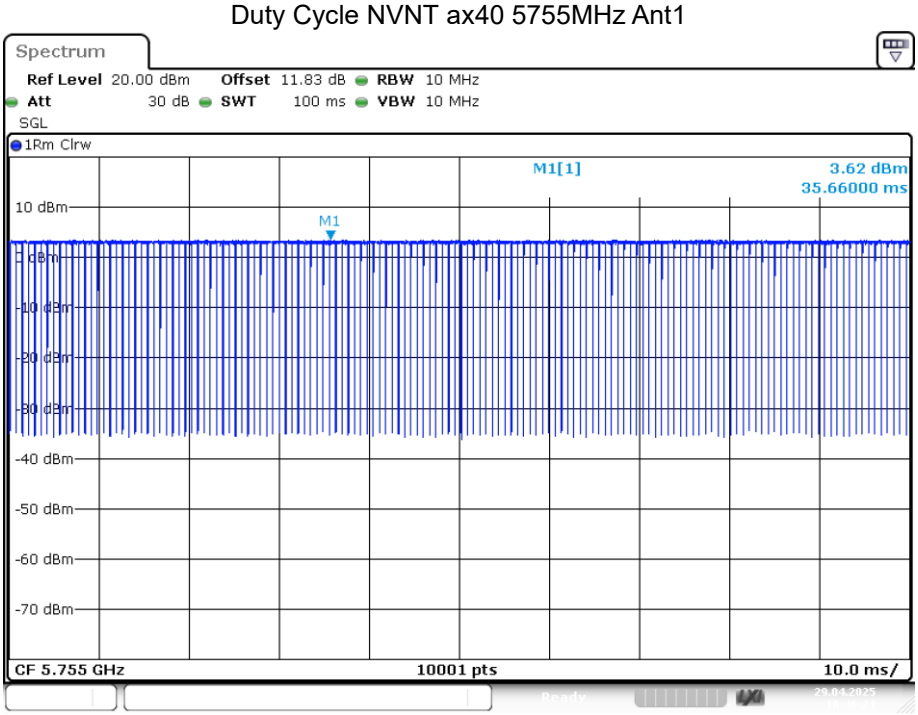
Date: 29.APR.2025 10:37:46

Duty Cycle NVNT ax20 5825MHz Ant1



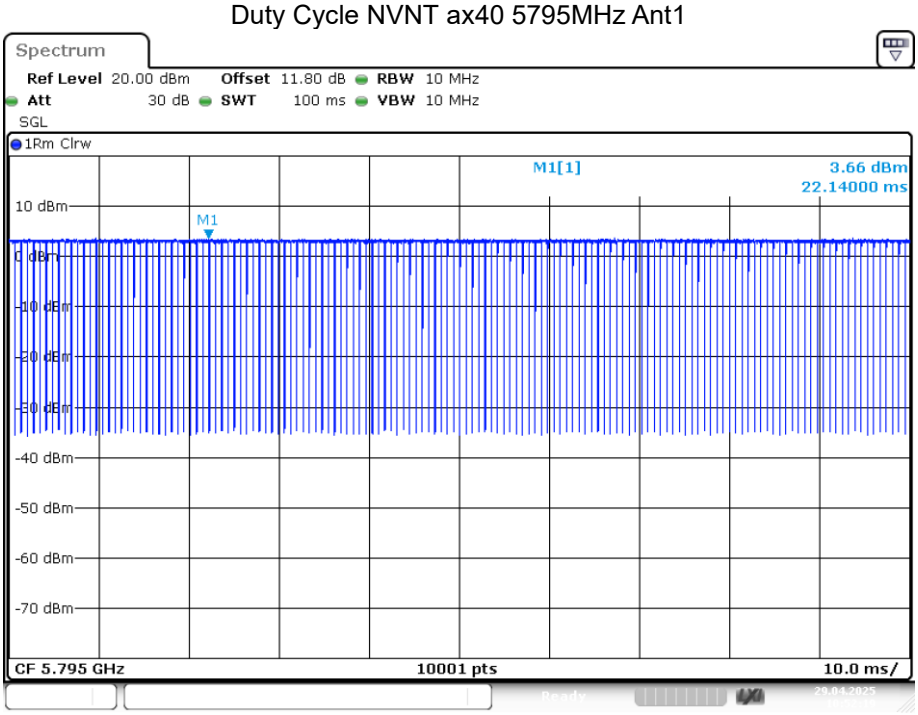
Date: 29.APR.2025 10:42:32

Duty Cycle NVNT ax40 5755MHz Ant1



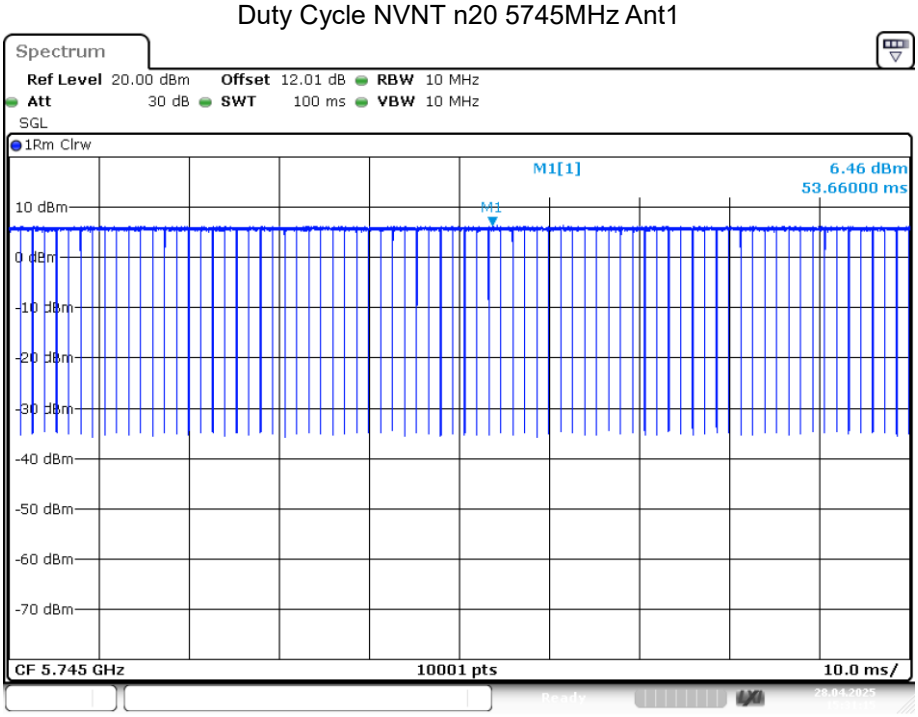
Date: 29.APR.2025 10:46:20

Duty Cycle NVNT ax40 5795MHz Ant1



Date: 29.APR.2025 10:52:19

Duty Cycle NVNT n20 5745MHz Ant1



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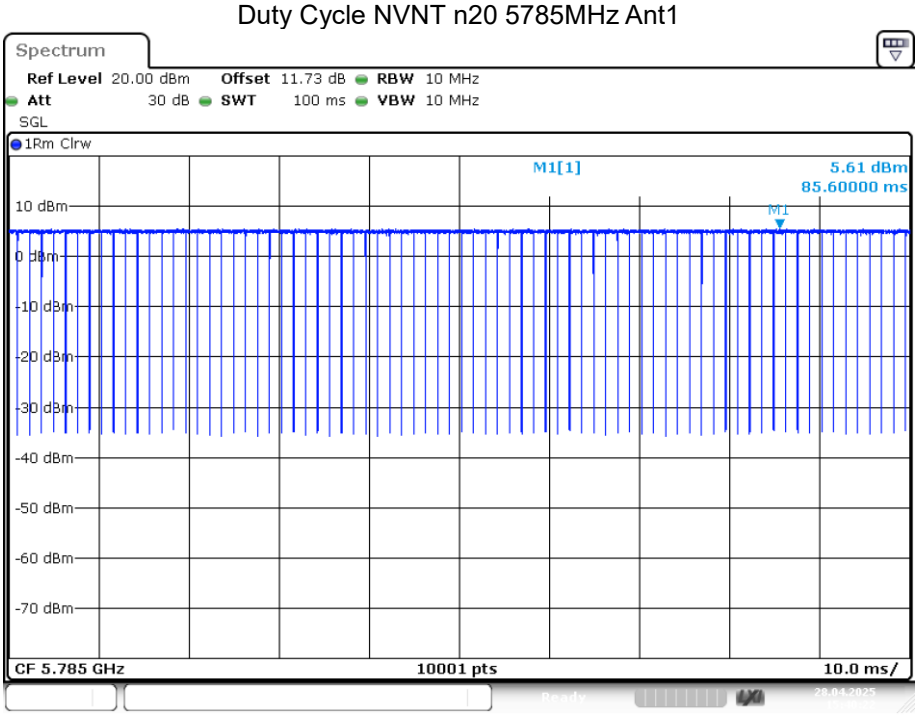
Duty Cycle NVNT n20 5785MHz Ant1



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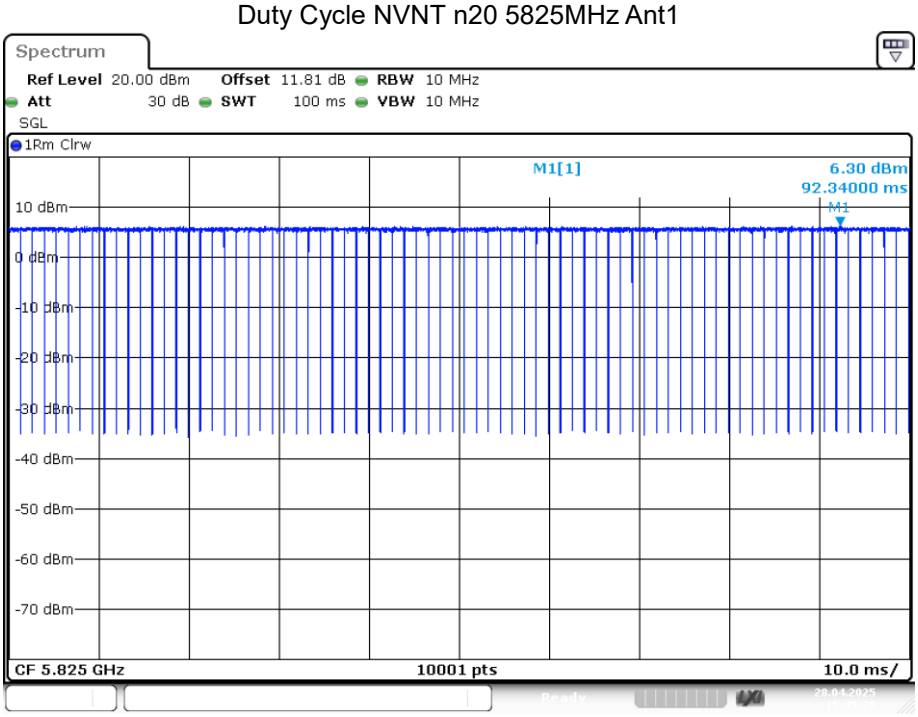
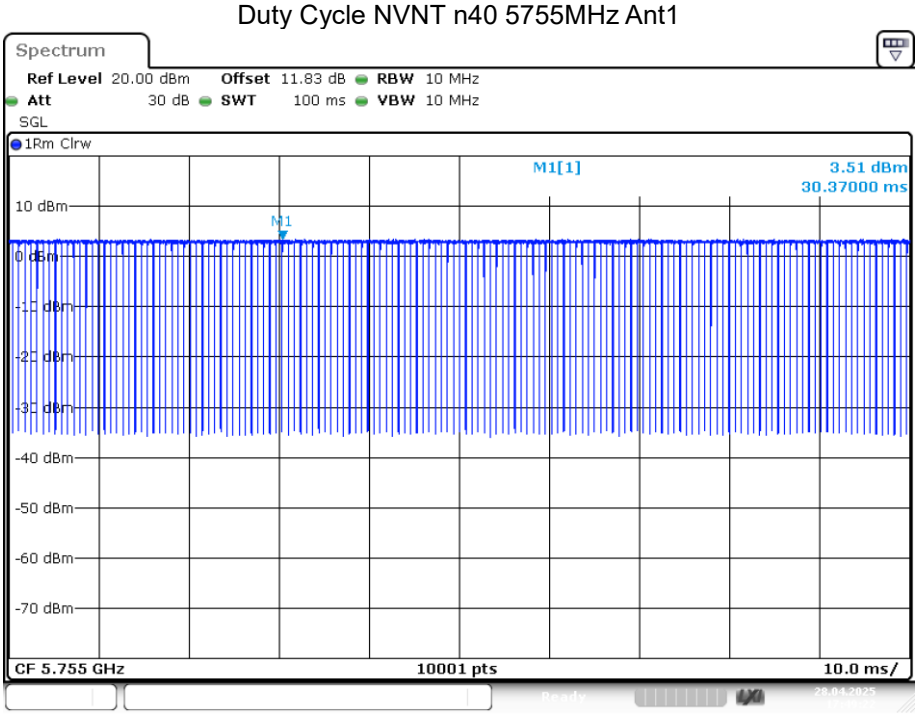
Duty Cycle NVNT n20 5825MHz Ant1



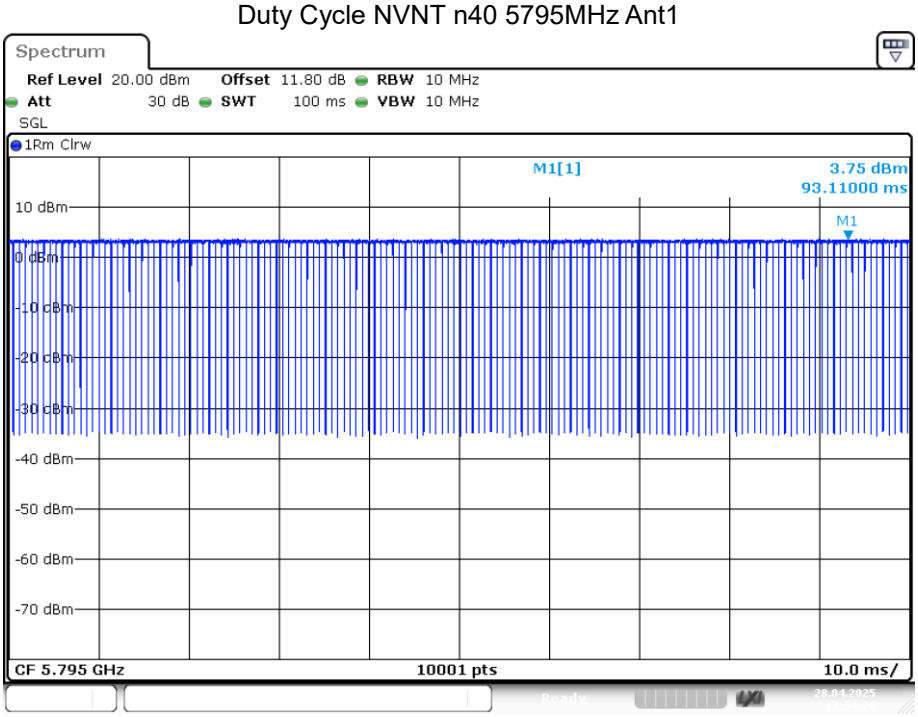
Date: 28.APR.2025 15:45:29

Duty Cycle NVNT n40 5755MHz Ant1



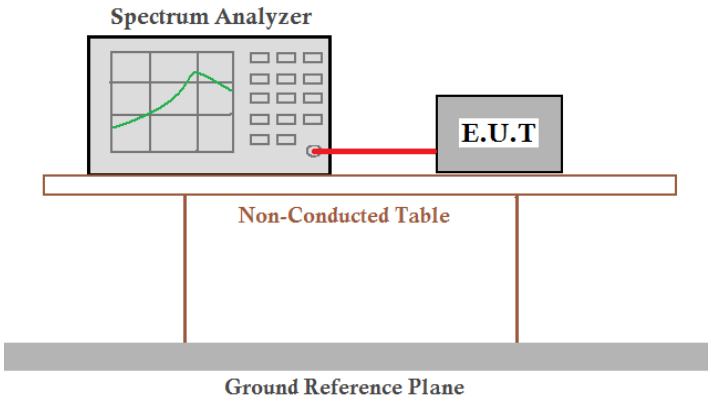
Date: 28.APR.2025 17:49:22

Duty Cycle NVNT n40 5795MHz Ant1



Date: 28.APR.2025 17:54:20

4.6 Power Spectral Density

Test Requirement:	47-CFR-Part-15.407
Test Method:	ANSI C63.10-2020, section 12.6
Limit:	≤11.00dBm/MHz for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz ≤30.00dBm/500KHz for 5725MHz-5850MHz
Test setup:	
Test procedure:	Refer·toANSI-C63.10-2020,section.12.6-
Test results:	Pass

Measurement Data

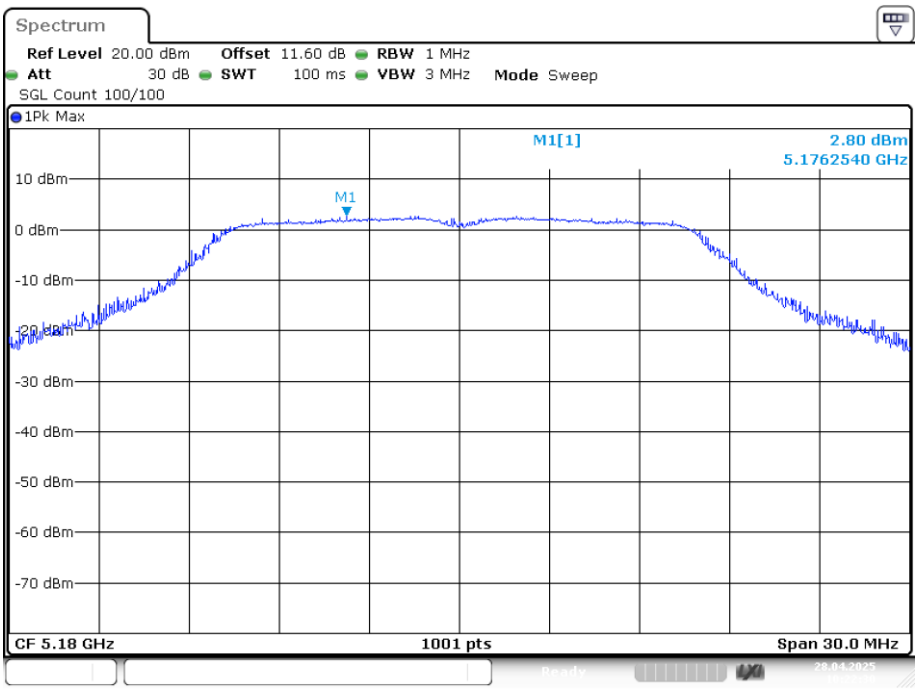
Band 1 (5150 - 5250 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle Factor (dB)	Conducted PSD(dBm)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	0.11	2.8	2.91	11	Pass
NVNT	a	5200	Ant1	0.11	3.749	3.859	11	Pass
NVNT	a	5240	Ant1	0.11	3.417	3.527	11	Pass
NVNT	ac20	5180	Ant1	0.12	4.02	4.14	11	Pass
NVNT	ac20	5200	Ant1	0.11	3.879	3.989	11	Pass
NVNT	ac20	5240	Ant1	0.12	4.376	4.496	11	Pass
NVNT	ac40	5190	Ant1	0.23	0.762	0.992	11	Pass
NVNT	ac40	5230	Ant1	0.23	0.588	0.818	11	Pass
NVNT	ax20	5180	Ant1	0.12	-6.695	-6.575	11	Pass
NVNT	ax20	5200	Ant1	0.12	-7.174	-7.054	11	Pass
NVNT	ax20	5240	Ant1	0.11	-7.173	-7.063	11	Pass
NVNT	ax40	5190	Ant1	0.23	-10.18	-9.95	11	Pass
NVNT	ax40	5230	Ant1	0.23	-9.968	-9.738	11	Pass
NVNT	n20	5180	Ant1	0.12	4	4.12	11	Pass
NVNT	n20	5200	Ant1	0.12	3.89	4.01	11	Pass
NVNT	n20	5240	Ant1	0.12	3.698	3.818	11	Pass
NVNT	n40	5190	Ant1	0.24	0.309	0.549	11	Pass
NVNT	n40	5230	Ant1	0.23	0.831	1.061	11	Pass

Note: 1. Total PSD= Conducted PSD+ Duty Cycle Factor,

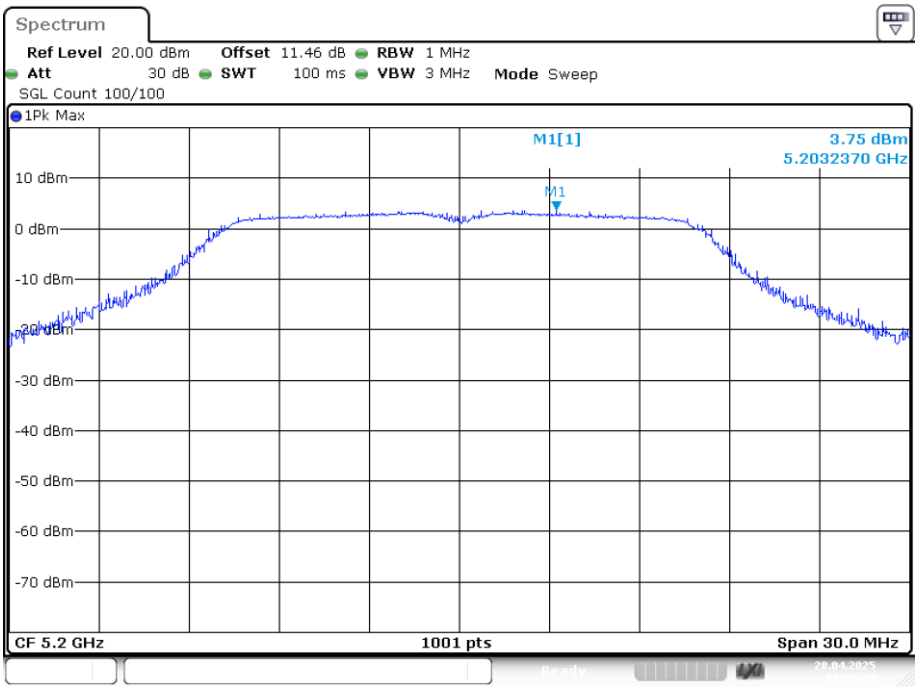
2. Offset = Cable loss

PSD NVNT a 5180MHz Ant1



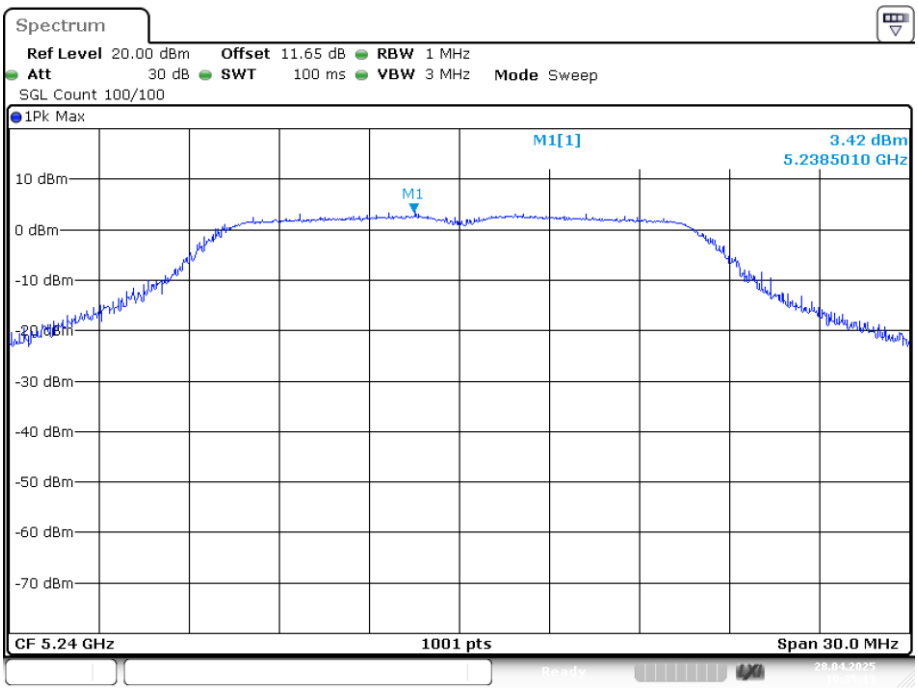
Date: 28.APR.2025 10:22:30

PSD NVNT a 5200MHz Ant1



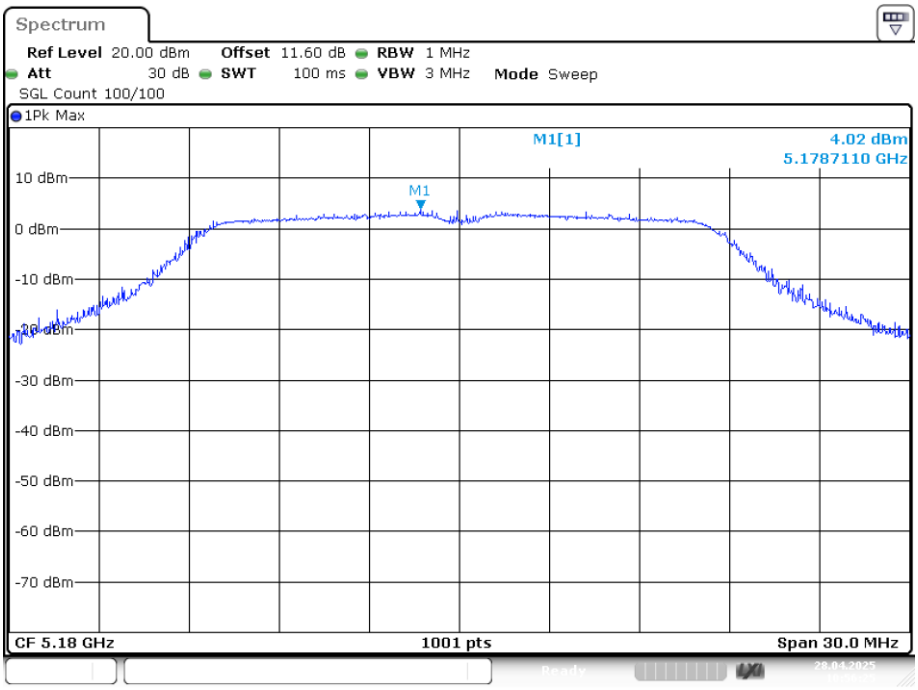
Date: 28.APR.2025 10:29:40

PSD NVNT a 5240MHz Ant1



Date: 28.APR.2025 10:35:13

PSD NVNT ac20 5180MHz Ant1



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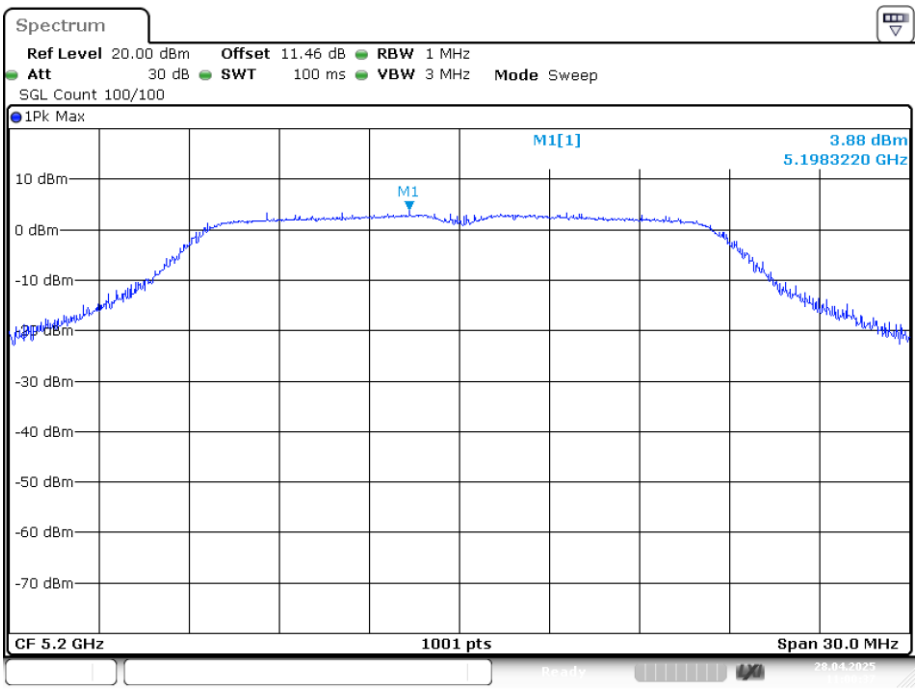
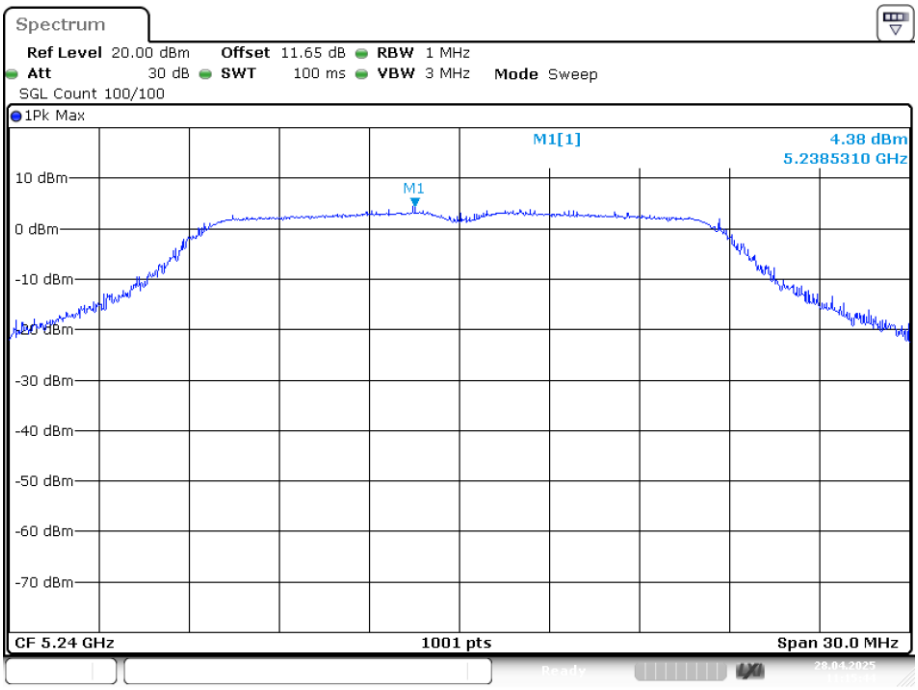
PSD NVNT ac20 5200MHz Ant1



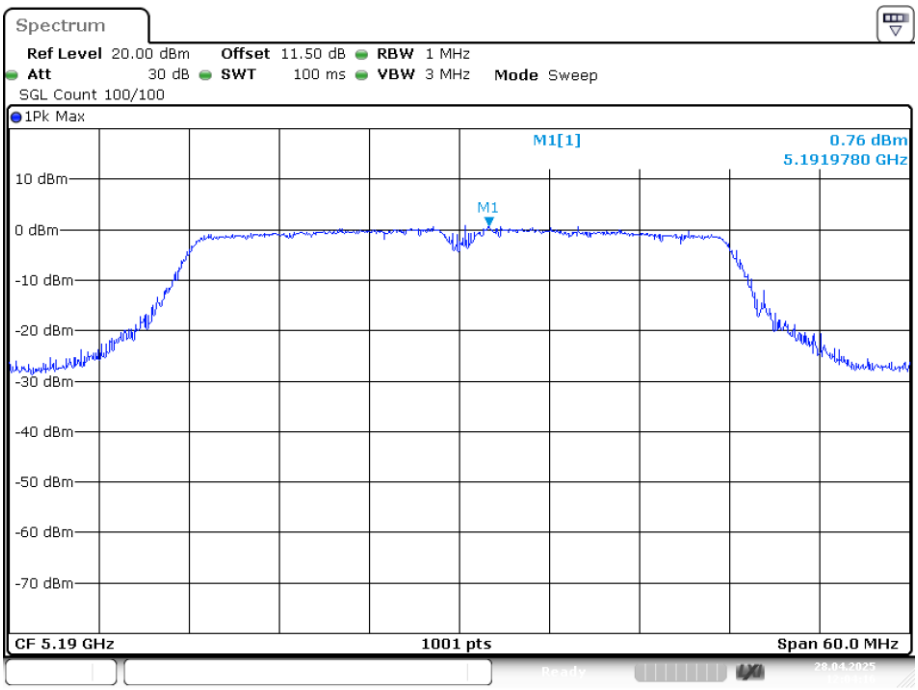
Date: 28.APR.2025 11:00:37

PSD NVNT ac20 5240MHz Ant1



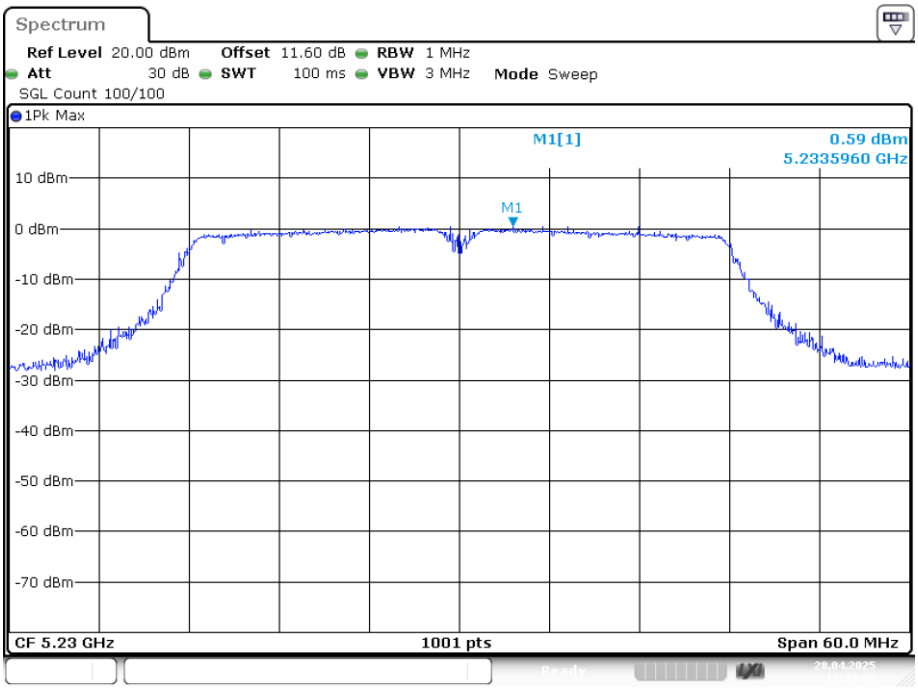
Date: 28.APR.2025 11:15:45

PSD NVNT ac40 5190MHz Ant1



Date: 28.APR.2025 12:04:16

PSD NVNT ac40 5230MHz Ant1



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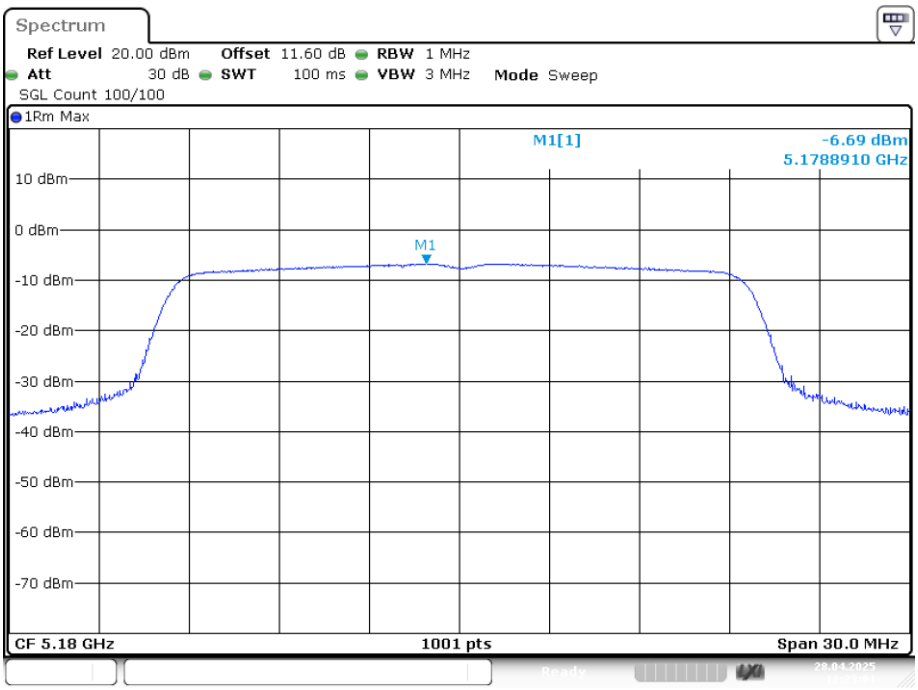
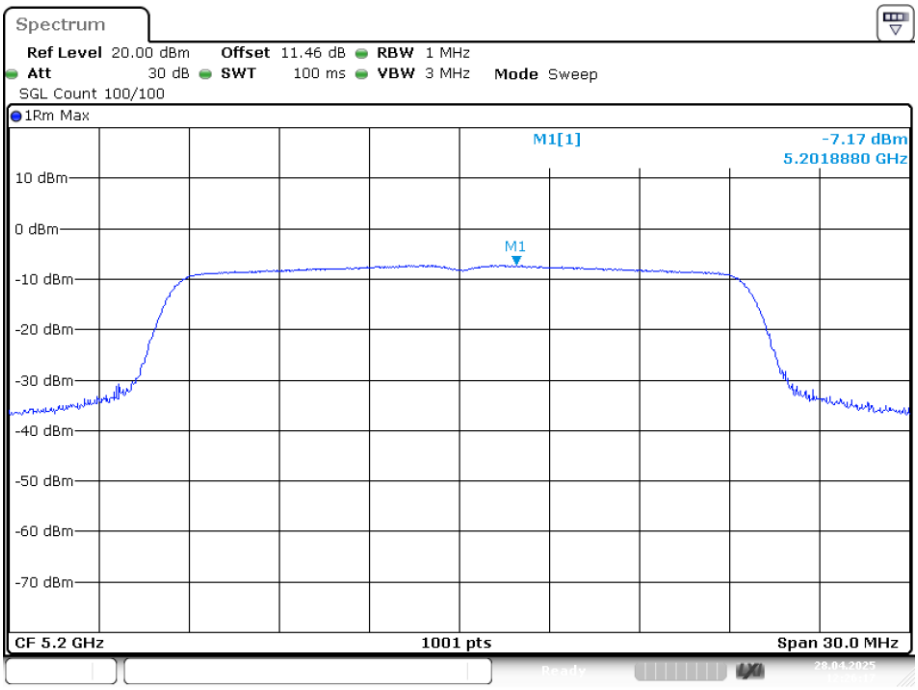
PSD NVNT ax20 5180MHz Ant1



Date: 28.APR.2025 12:23:01

PSD NVNT ax20 5200MHz Ant1



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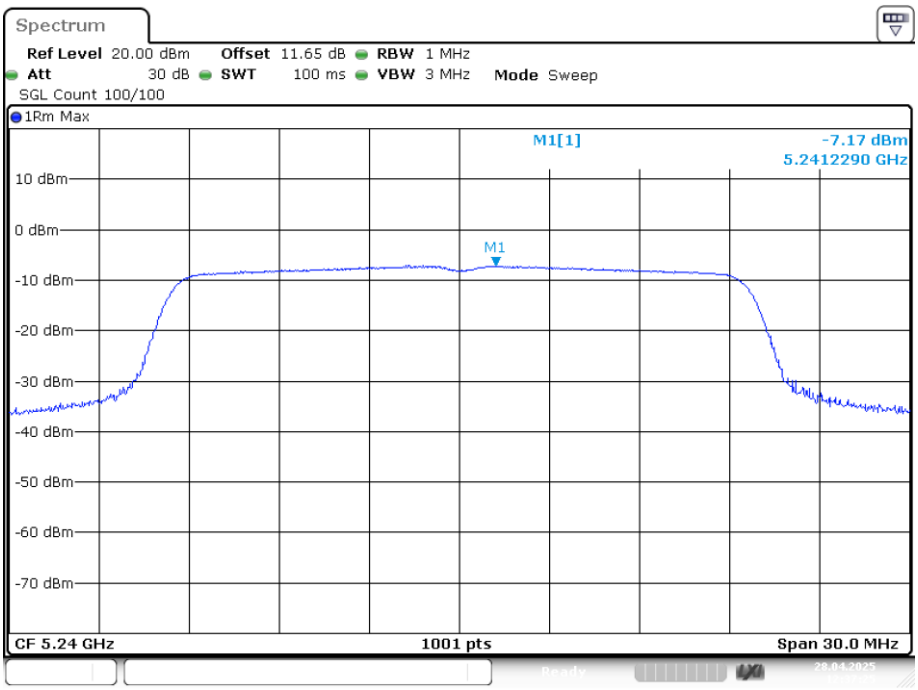
PSD NVNT ax20 5240MHz Ant1



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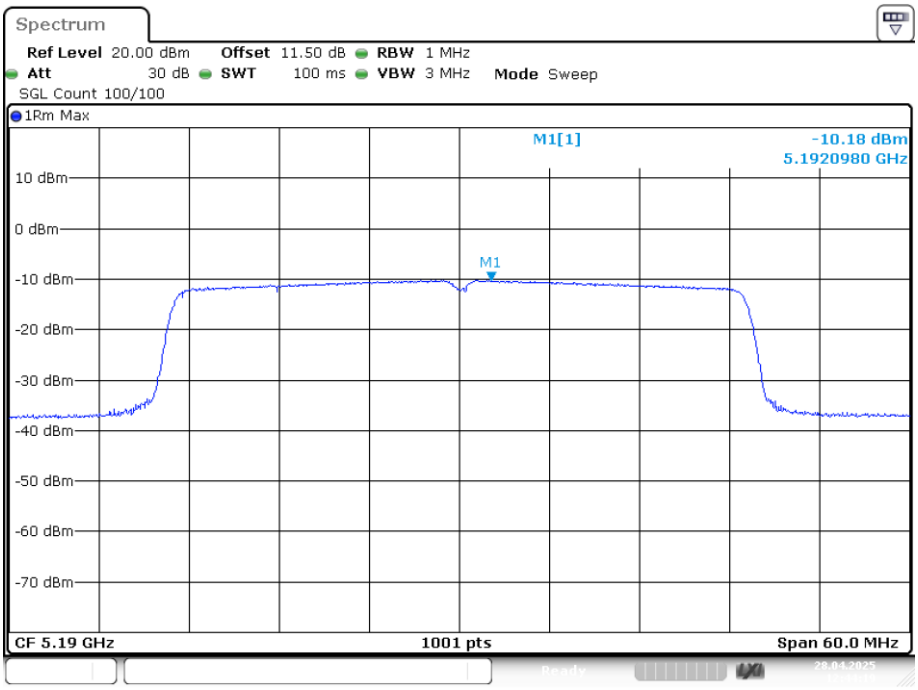
PSD NVNT ax40 5190MHz Ant1



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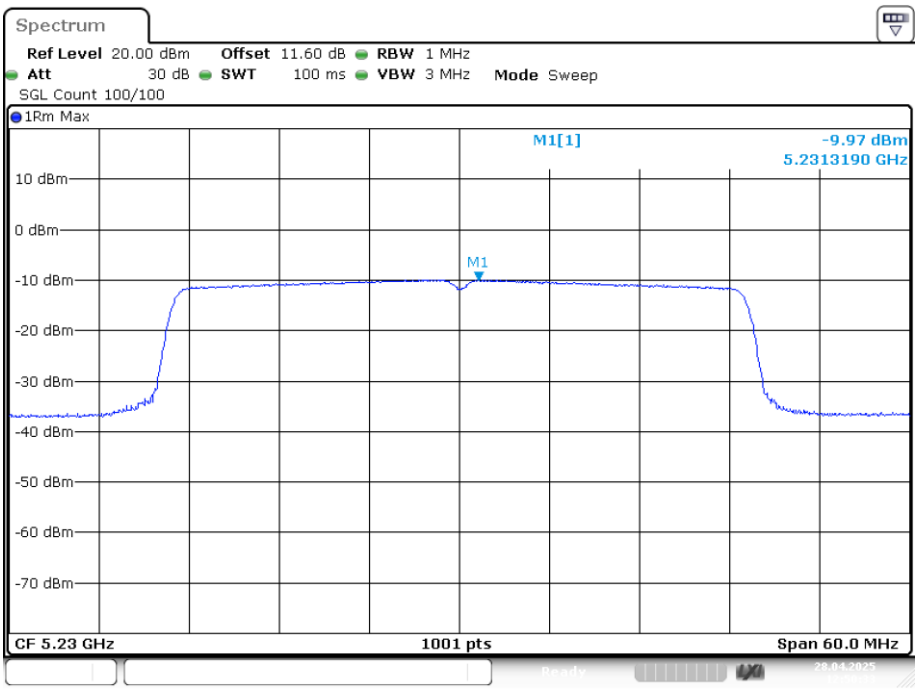
PSD NVNT ax40 5230MHz Ant1



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