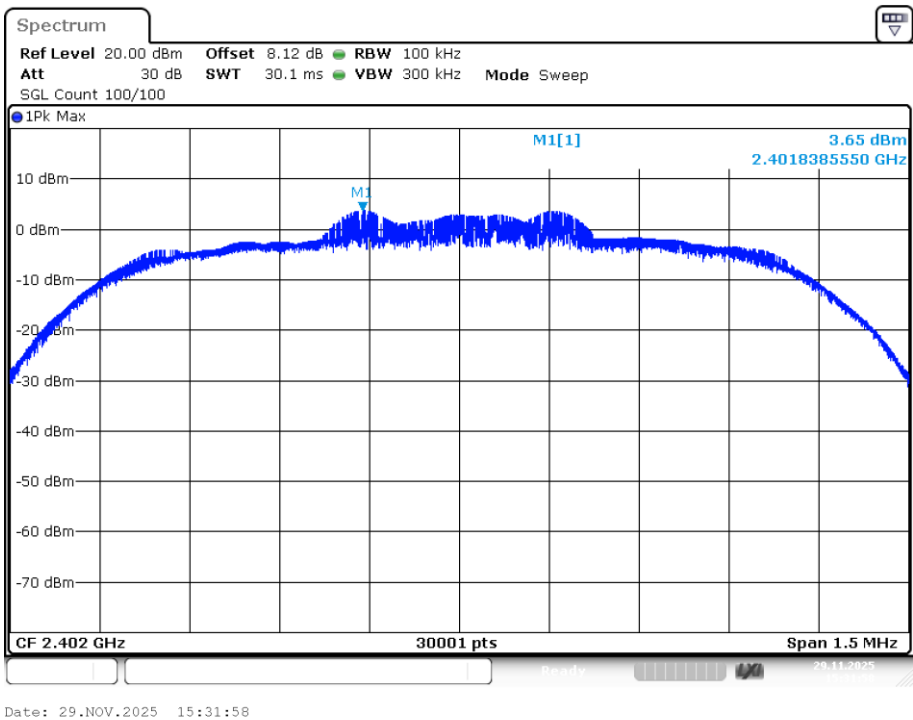
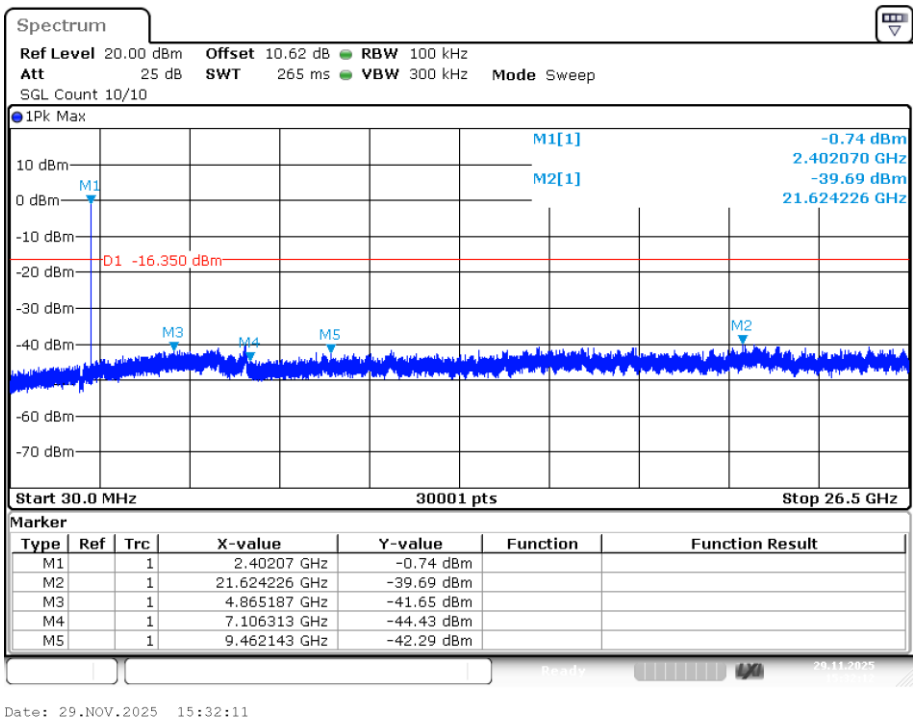


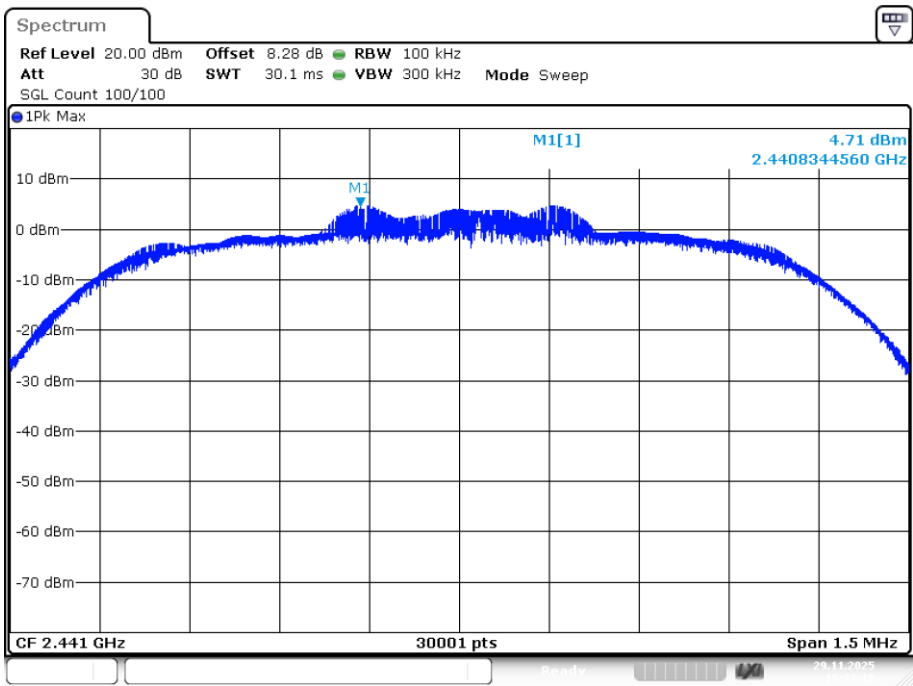
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

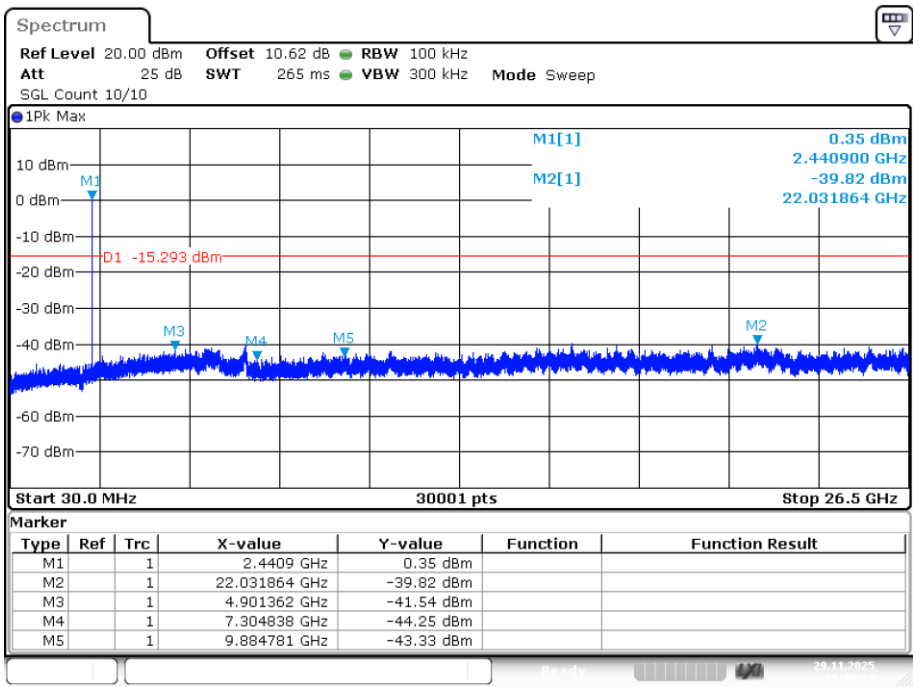


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



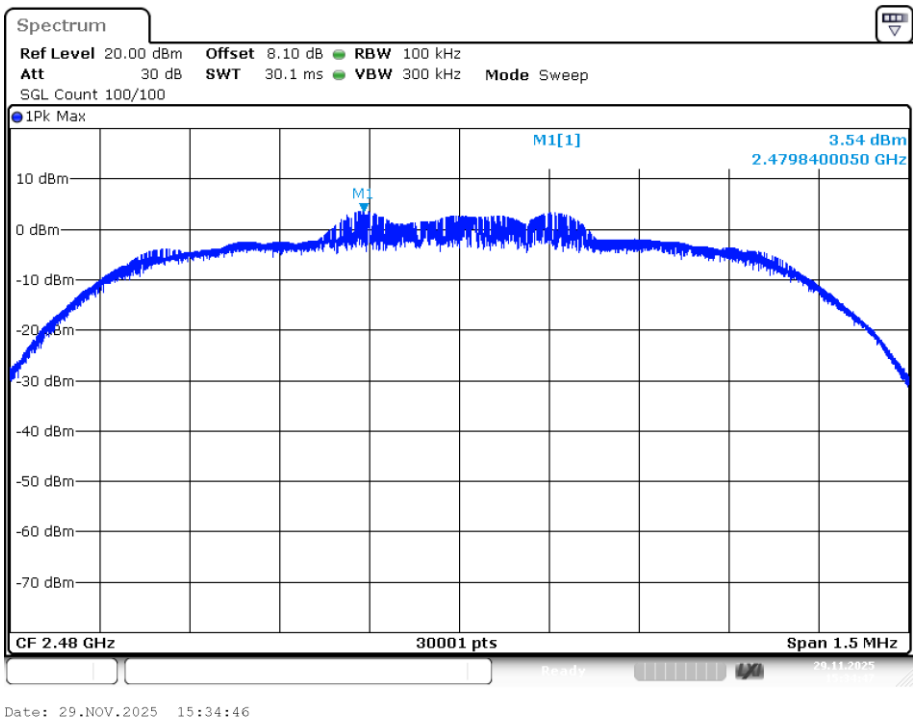
Date: 29.NOV.2025 15:33:18

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

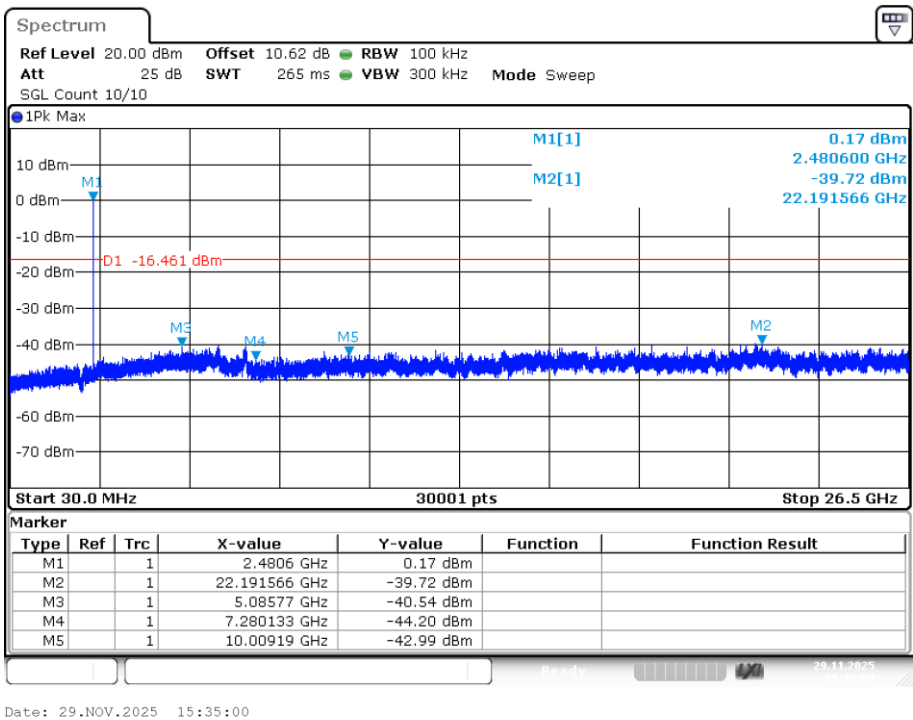


Date: 29.NOV.2025 15:33:32

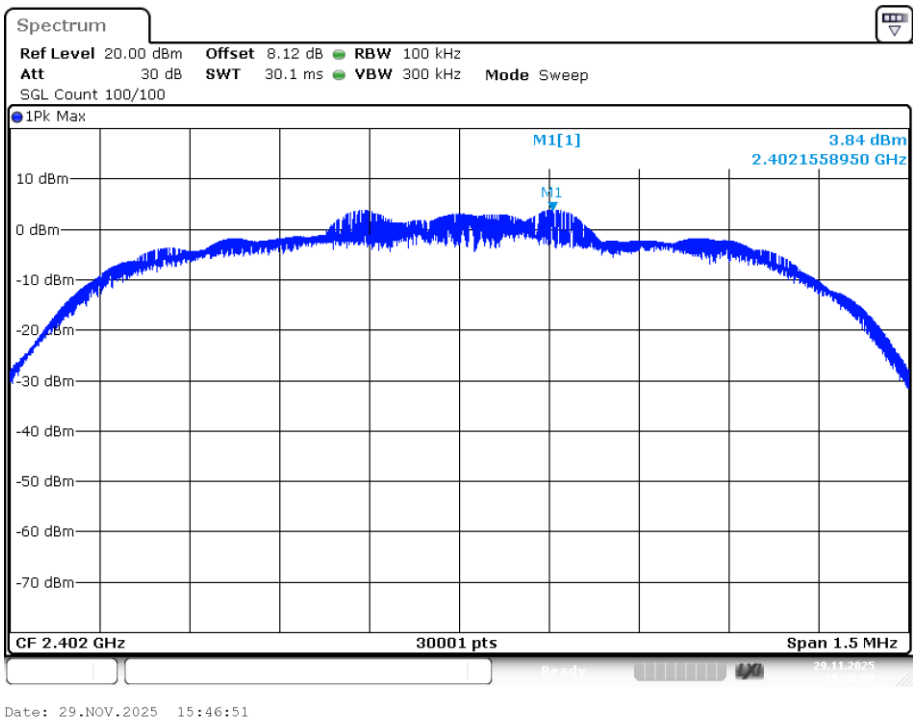
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



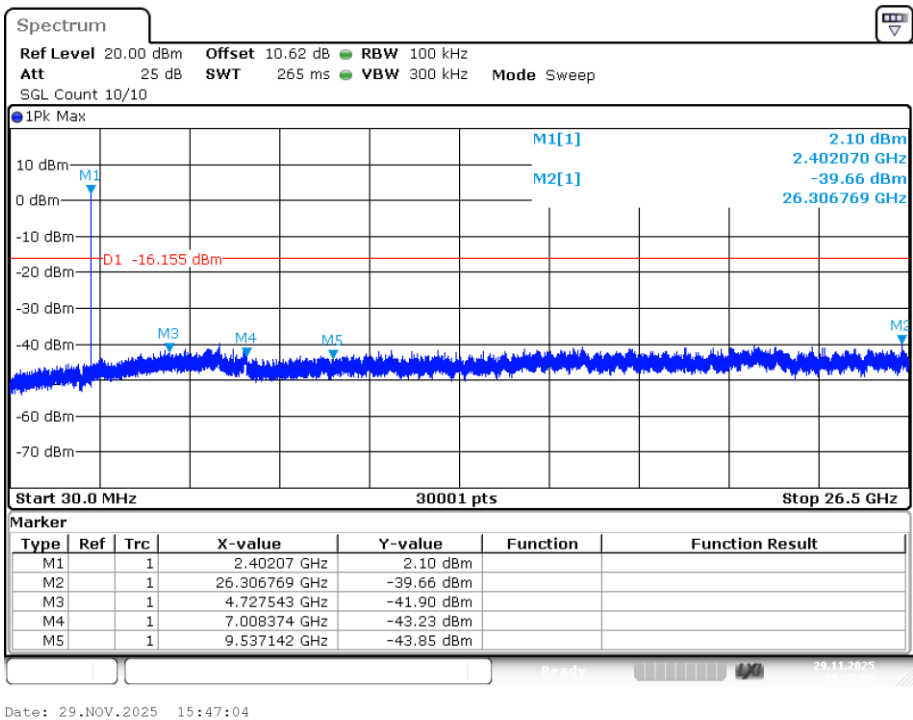
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



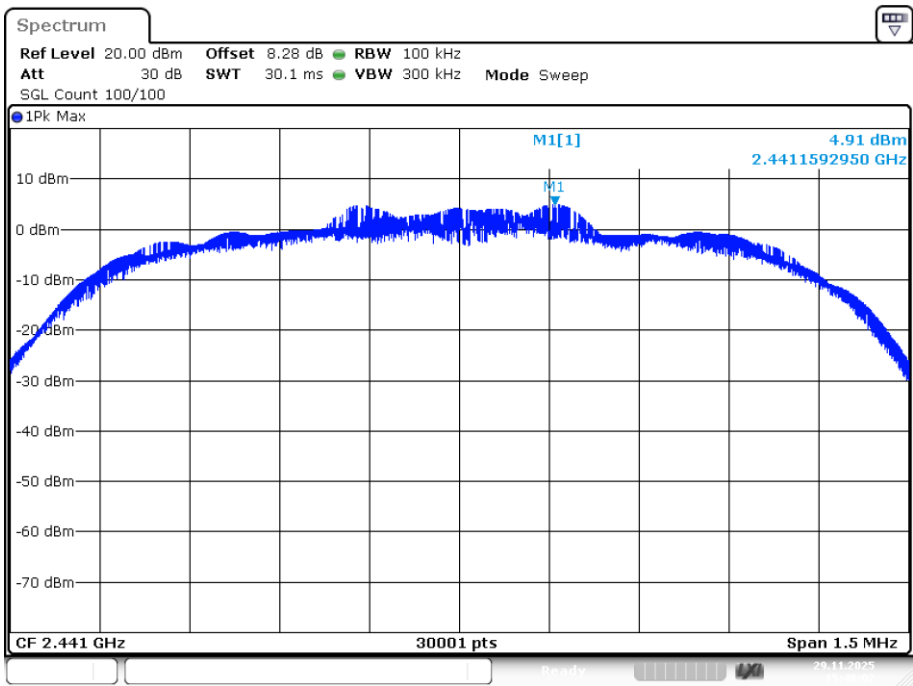
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

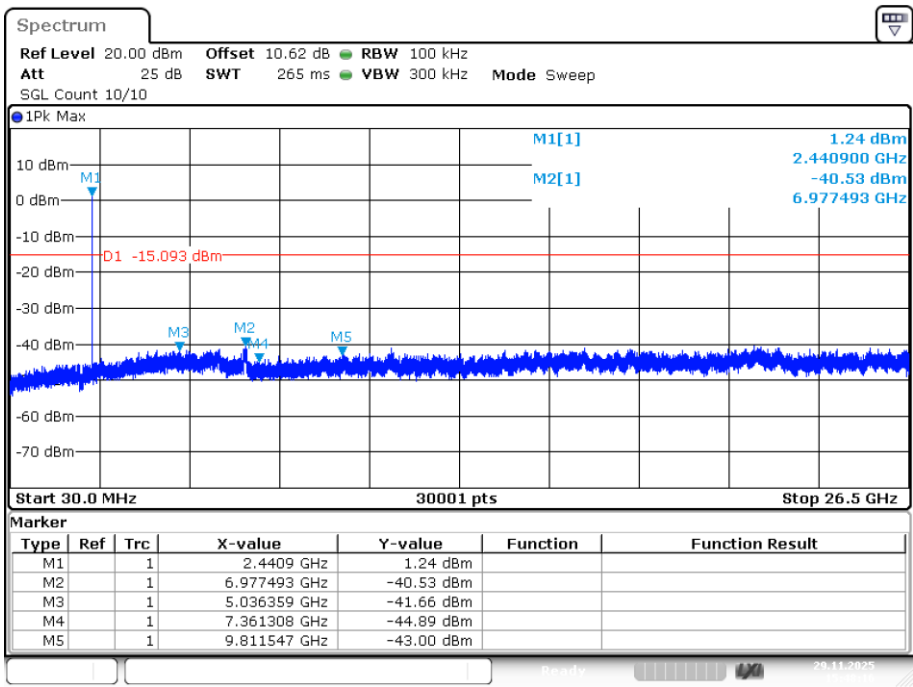


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



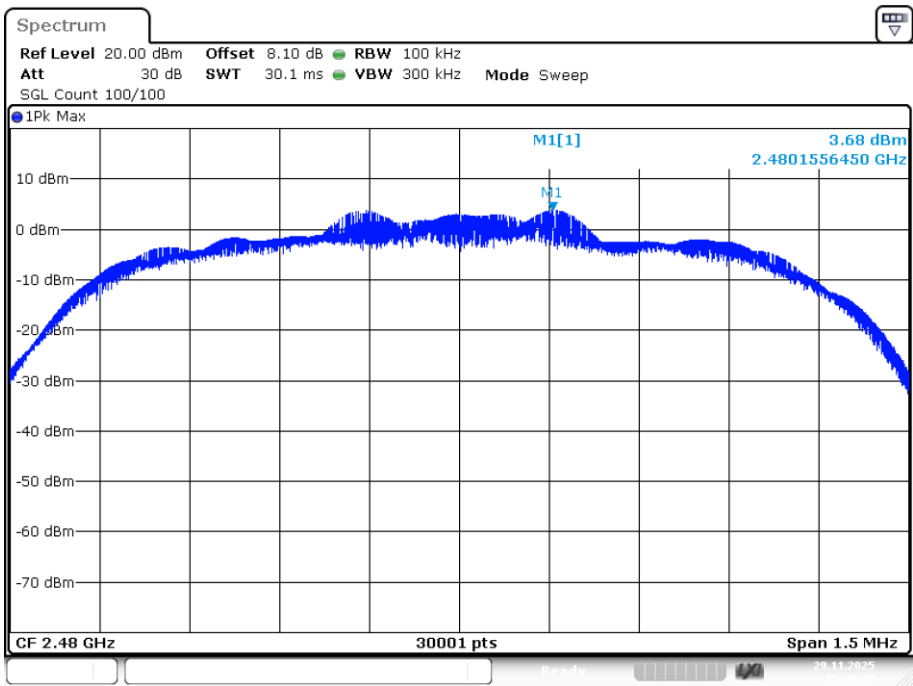
Date: 29.NOV.2025 15:48:02

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



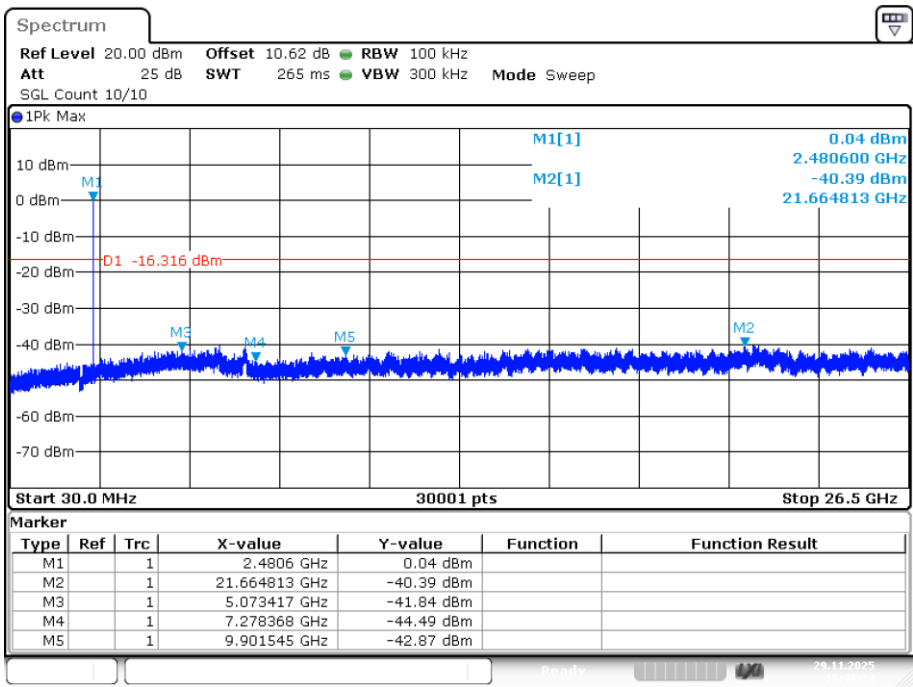
Date: 29.NOV.2025 15:48:16

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Date: 29.NOV.2025 15:49:19

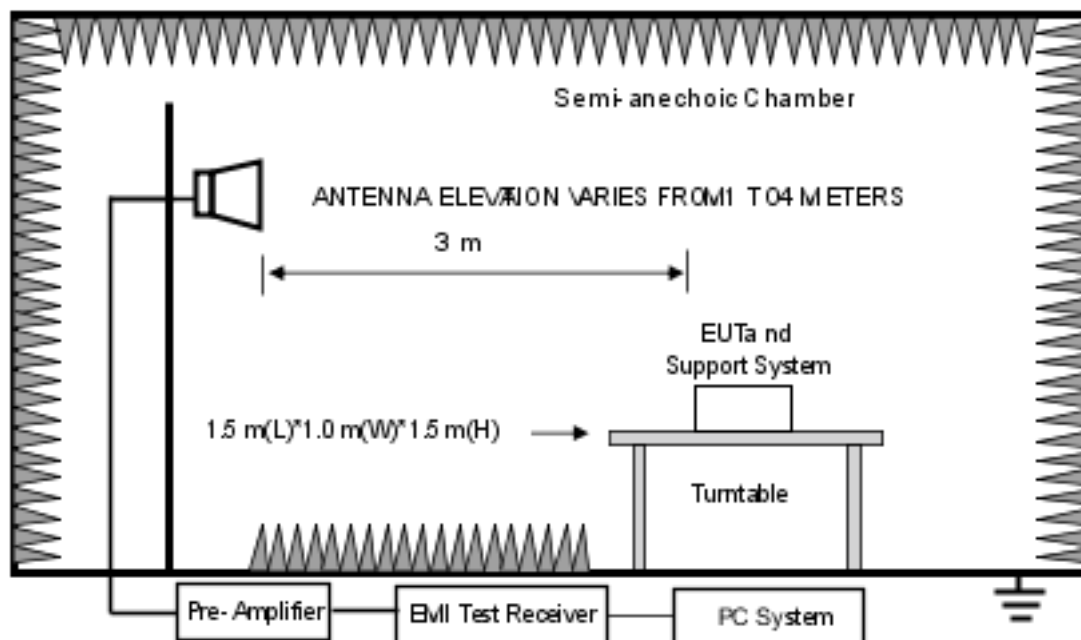
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



Date: 29.NOV.2025 15:49:33

10. BAND EDGE COMPLIANCE

10.1. Block Diagram of Test Setup



10.2. Limit

Please refer section 15.247.

10.3. Test Procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

10.3.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

10.3.2 Check the spurious emissions out of band.

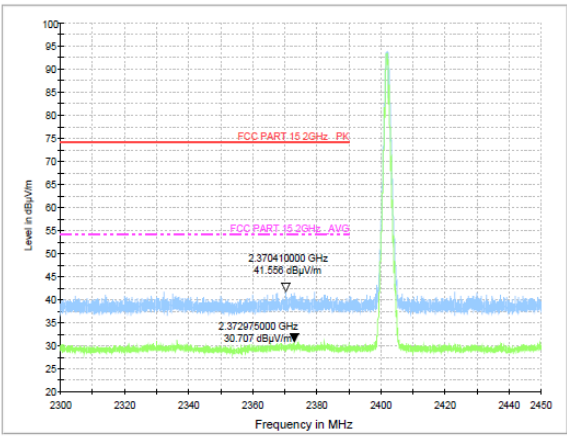
10.3.3 RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 3MHz, RMS detector for AV value.

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

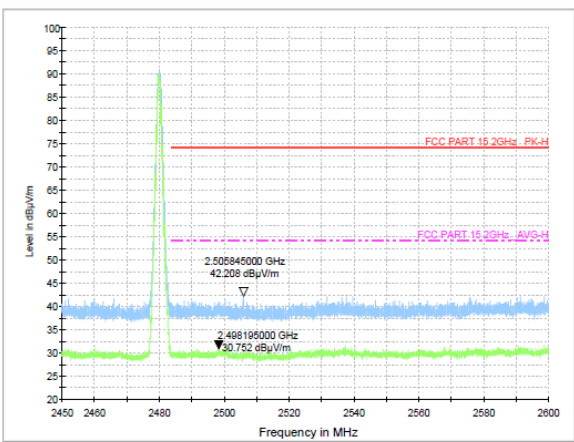
10.4. Test Result

PASS. (See below detailed test data)

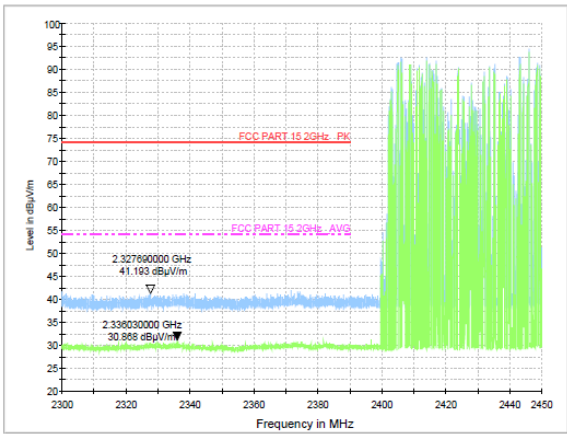
Test Mode: GFSK-Low Hopping-off



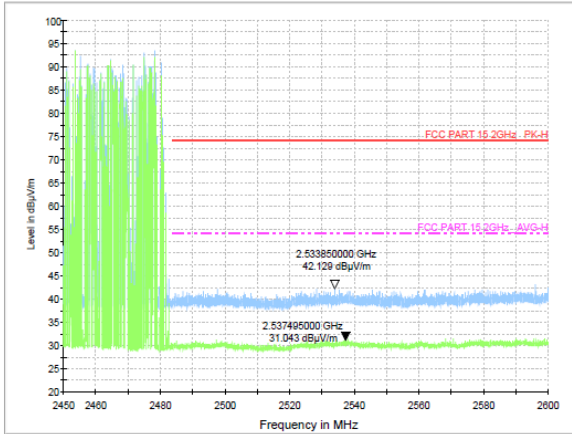
Test Mode: GFSK-High Hopping-off



Test Mode: GFSK-Low Hopping-on

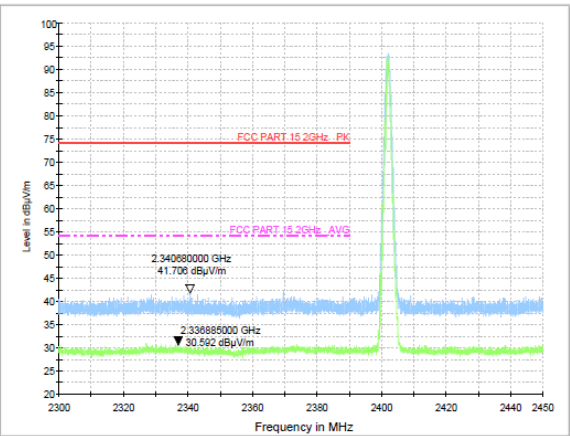


Test Mode: GFSK-High Hopping-on

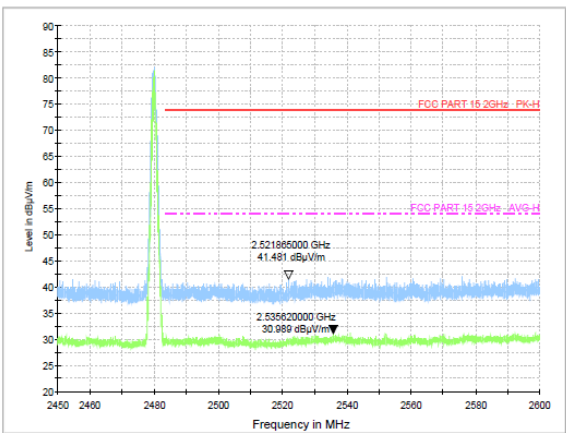


Note: 1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

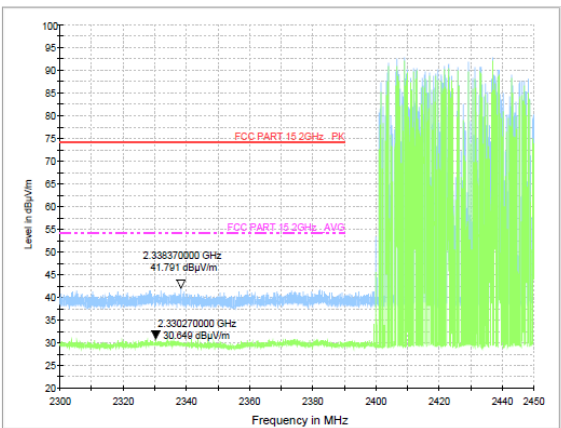
Test Mode: $\pi/4$ DQPSK-Low Hopping-off



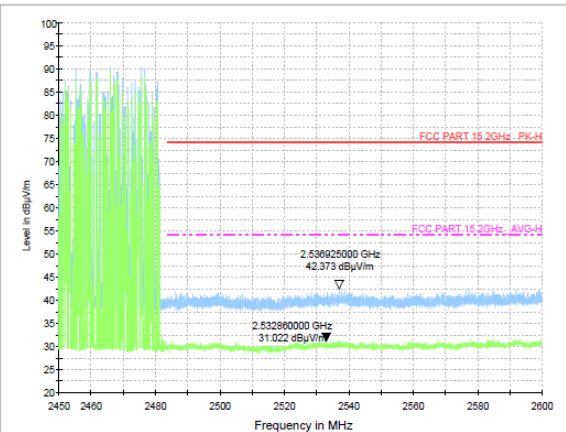
Test Mode: $\pi/4$ DQPSK-High Hopping-off



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



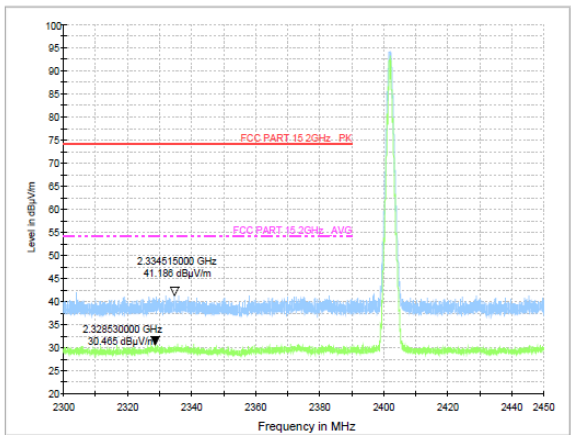
Test Mode: $\pi/4$ DQPSK-High Hopping-on



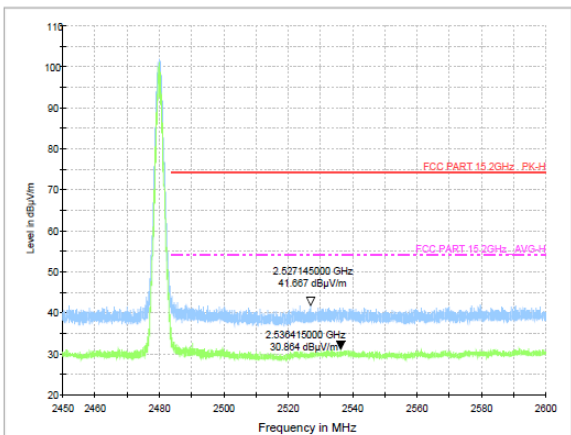
Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

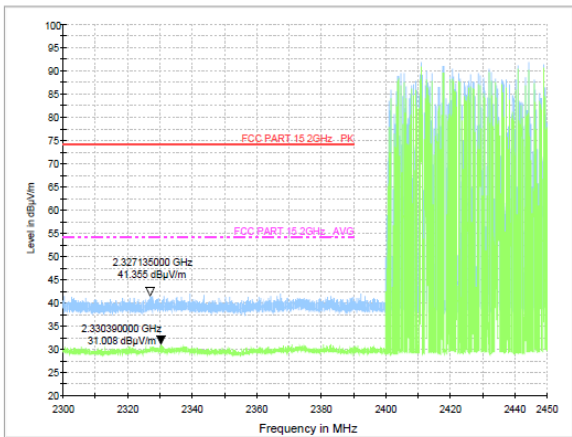
Test Mode: 8DPSK-Low Hopping-off



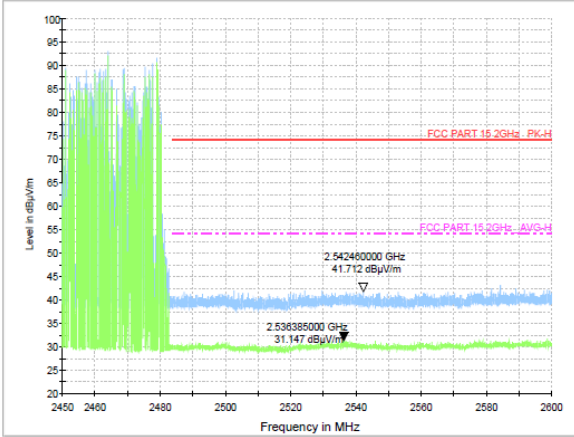
Test Mode: 8DPSK-High Hopping-off



Test Mode: 8DPSK-Low Hopping-on

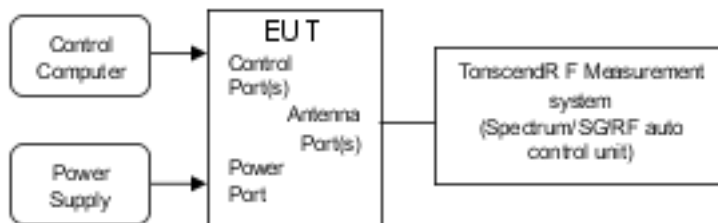


Test Mode: 8DPSK-High Hopping-on



11. BAND EDGE (CONDUCTED)

11.1. Block diagram of test setup



11.2. Test limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

11.3. Test Procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

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

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

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

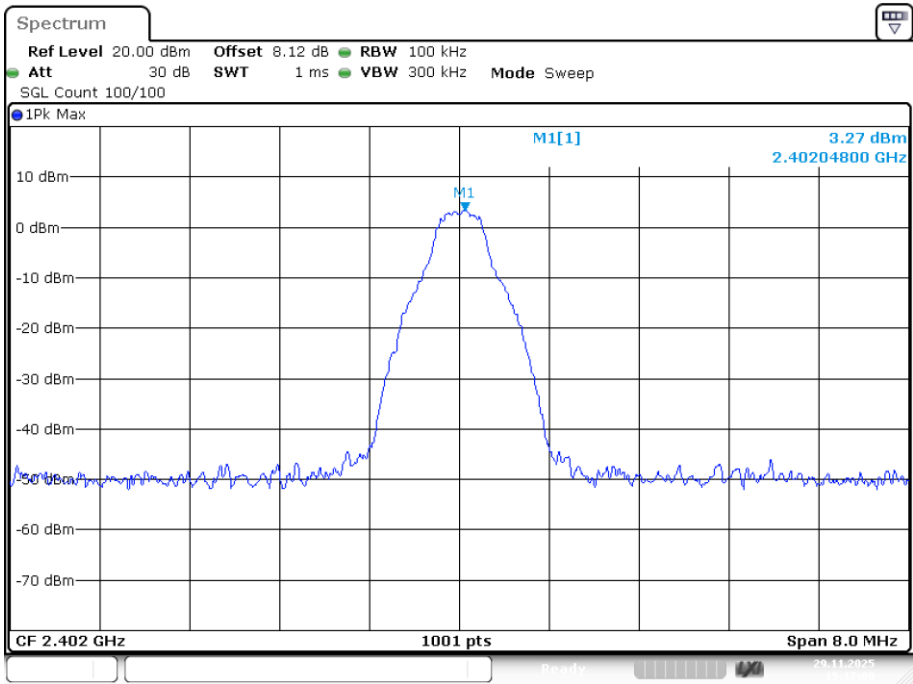
11.3.3. Set the spectrum analyzer as RBW=100KHz, VBW=300KHz, Sweep = auto.

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

11.4. Test Results

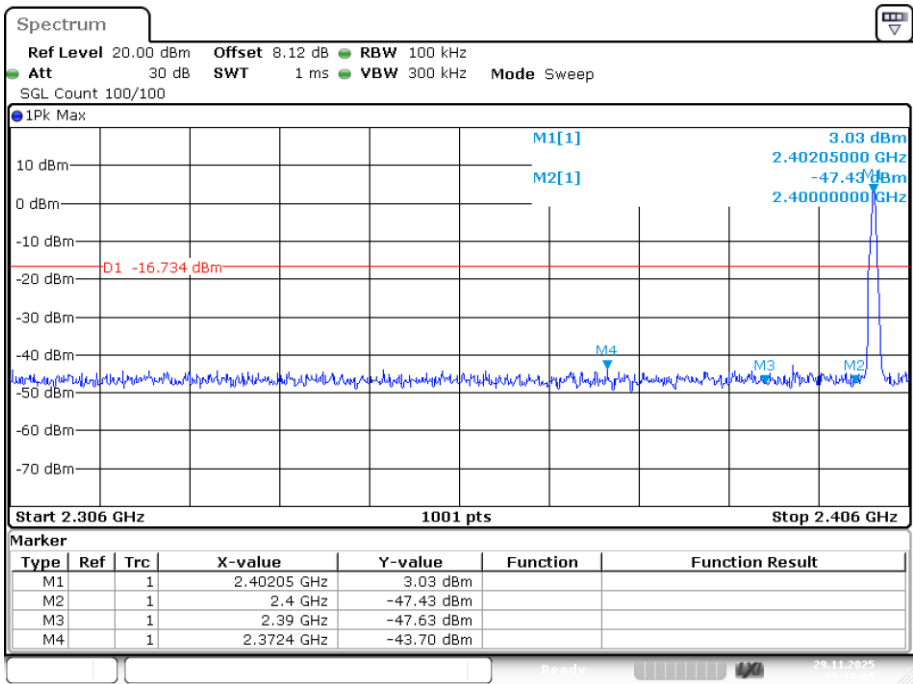
Pass

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



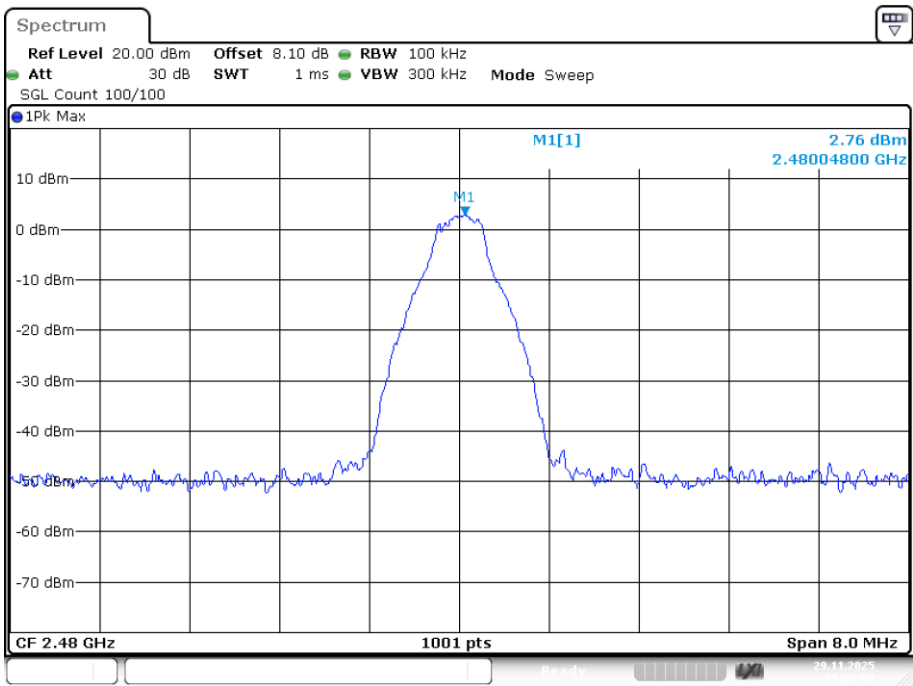
Date: 29.NOV.2025 15:17:01

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



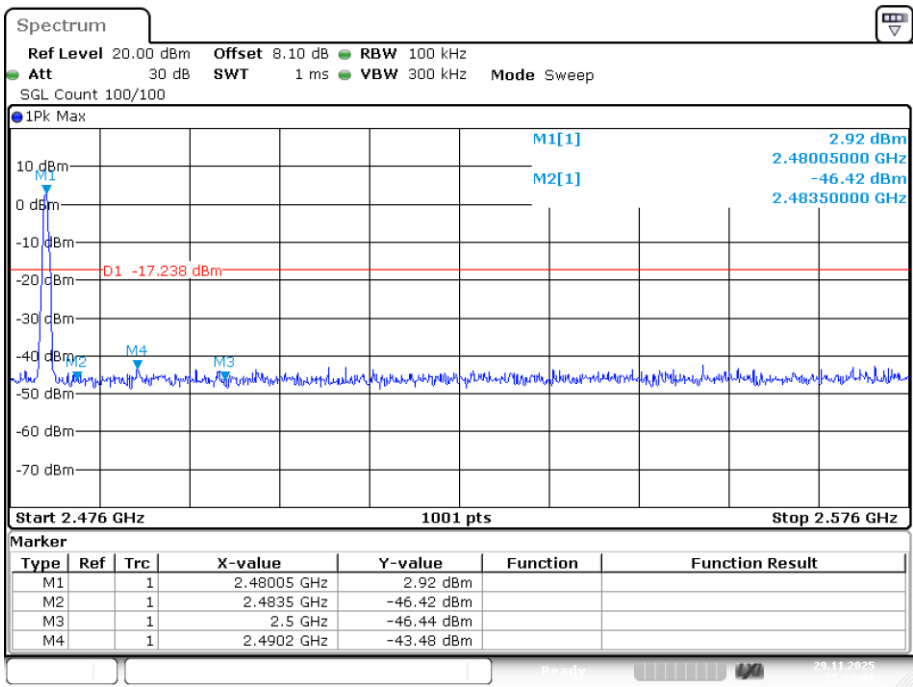
Date: 29.NOV.2025 15:17:05

Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



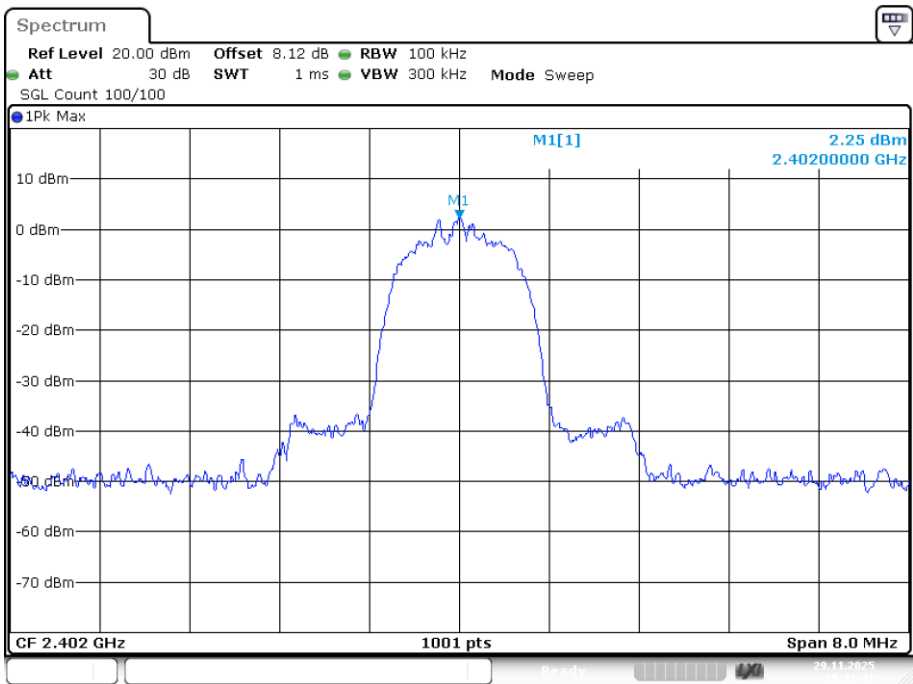
Date: 29.NOV.2025 15:22:57

Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



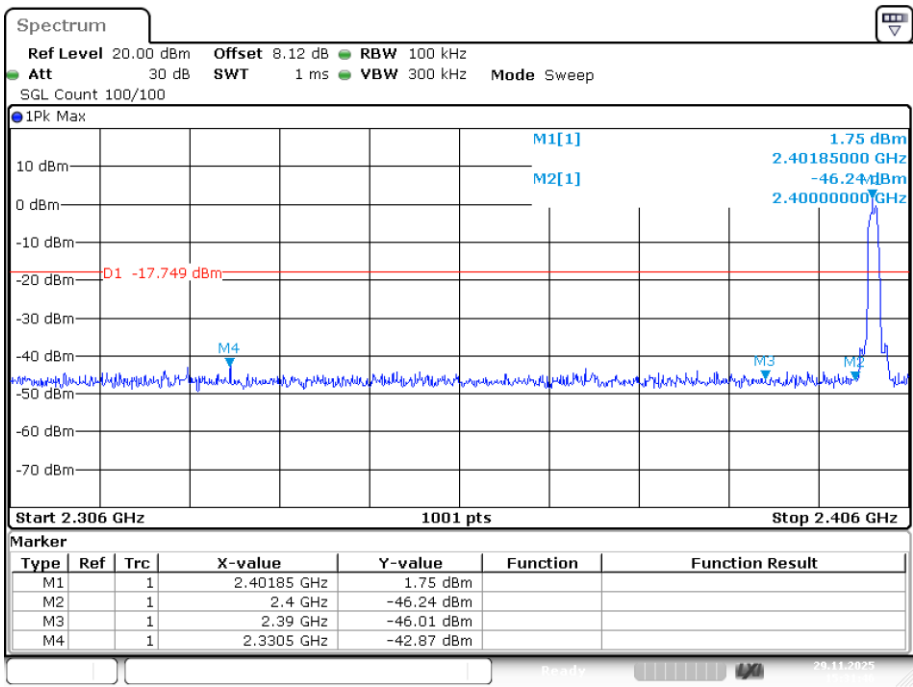
Date: 29.NOV.2025 15:23:01

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



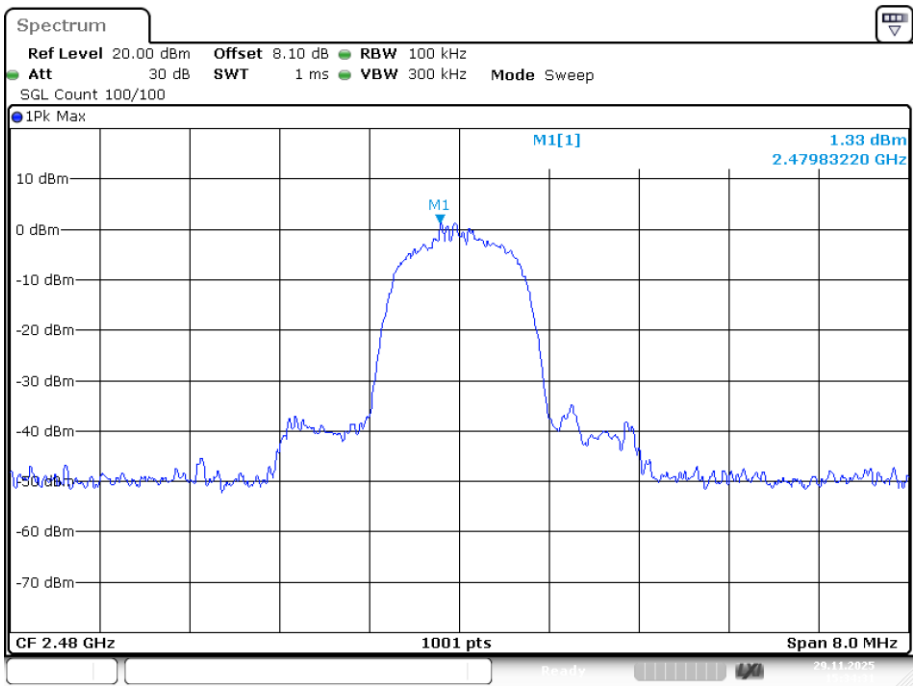
Date: 29.NOV.2025 15:31:41

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



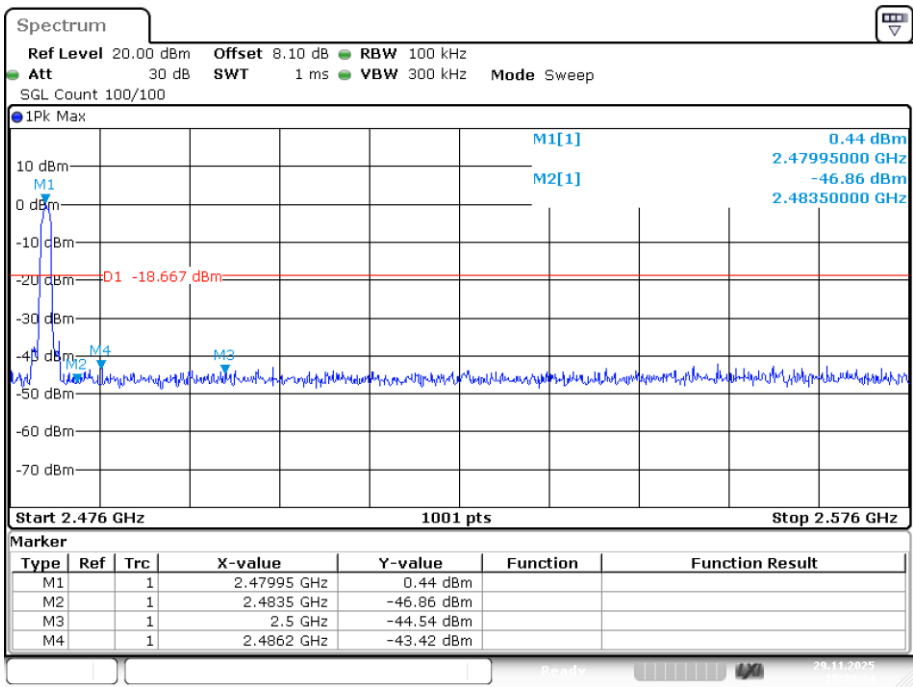
Date: 29.NOV.2025 15:31:45

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



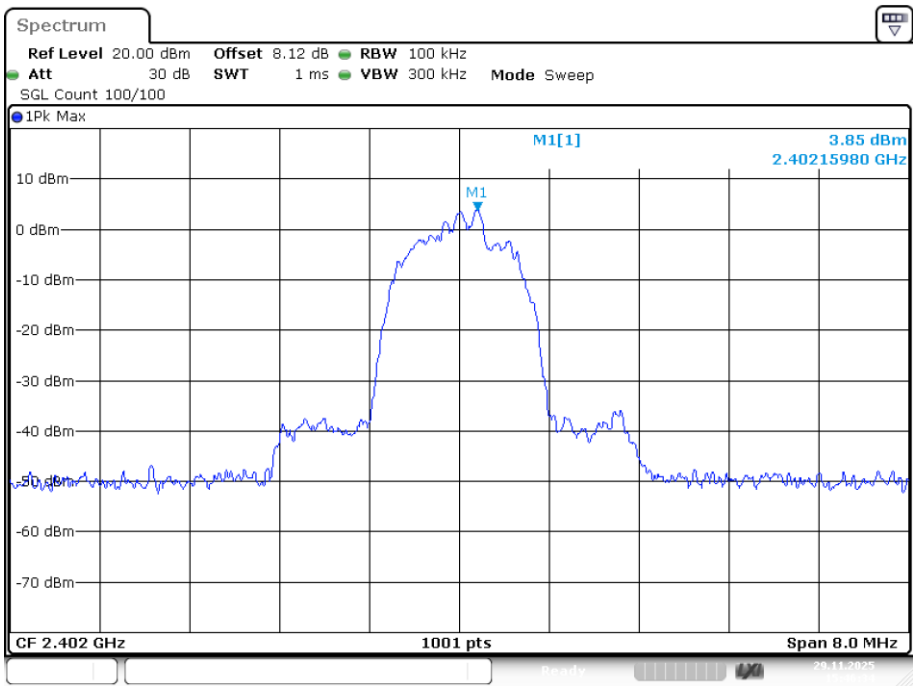
Date: 29.NOV.2025 15:34:31

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



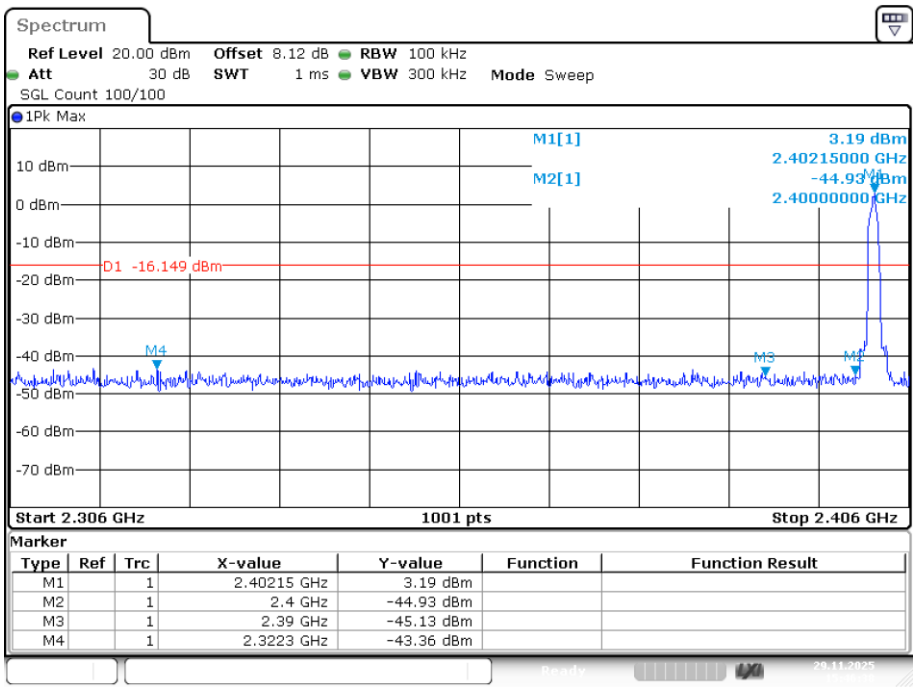
Date: 29.NOV.2025 15:34:34

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



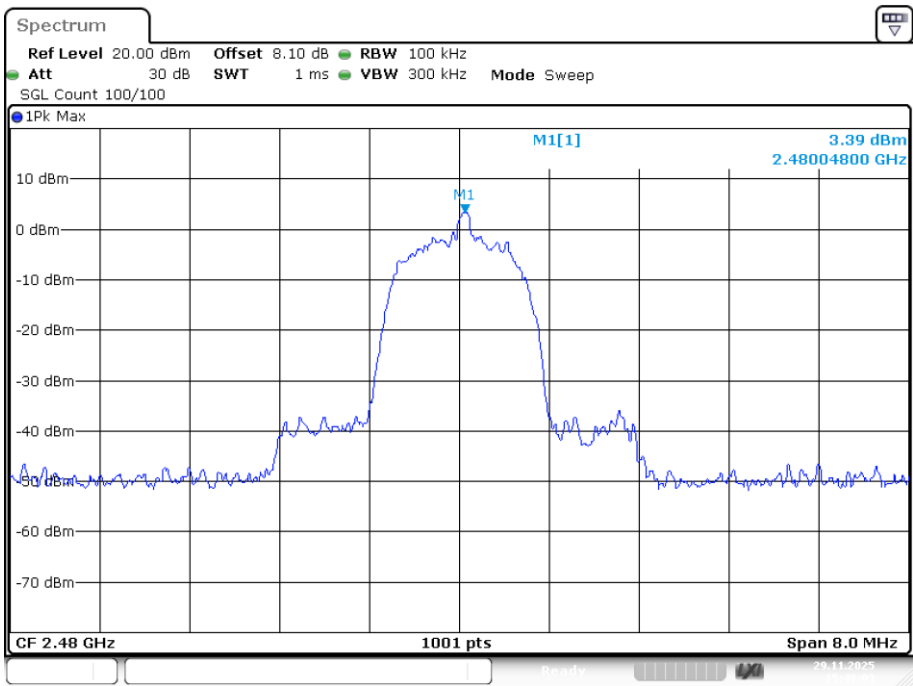
Date: 29.NOV.2025 15:46:34

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



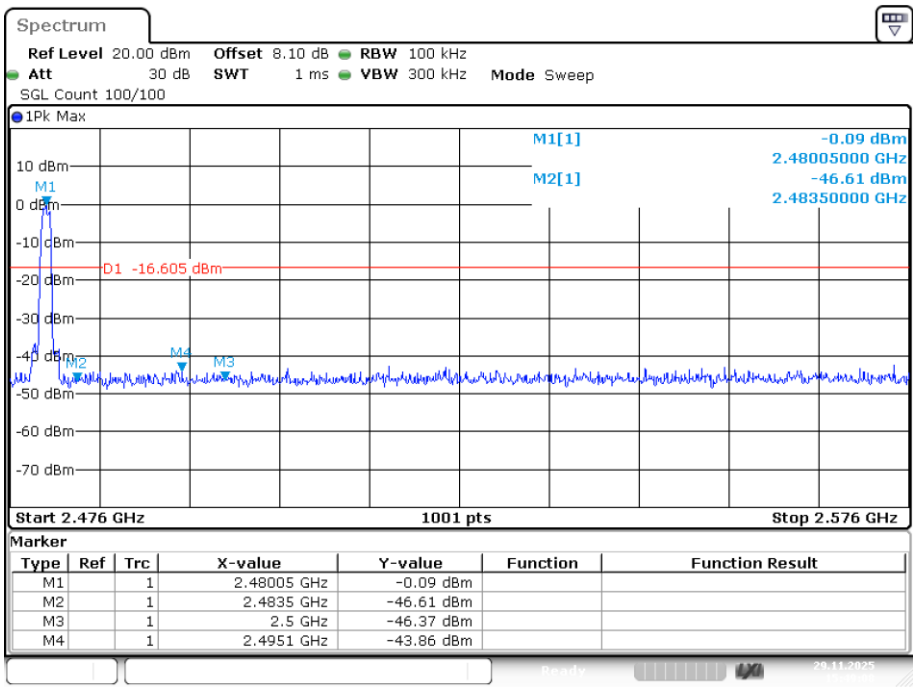
Date: 29.NOV.2025 15:46:38

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



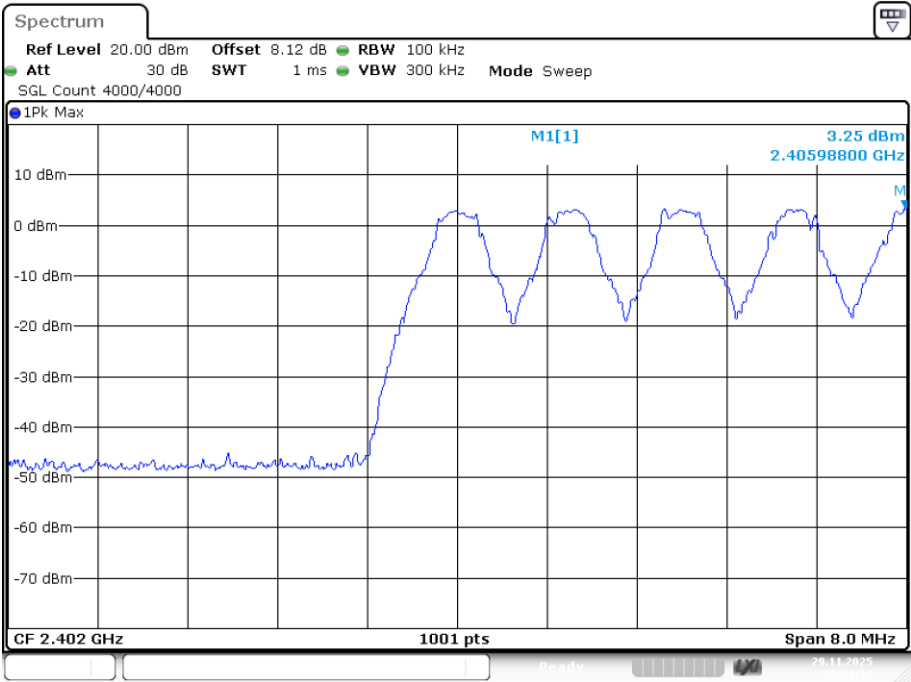
Date: 29.NOV.2025 15:49:04

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



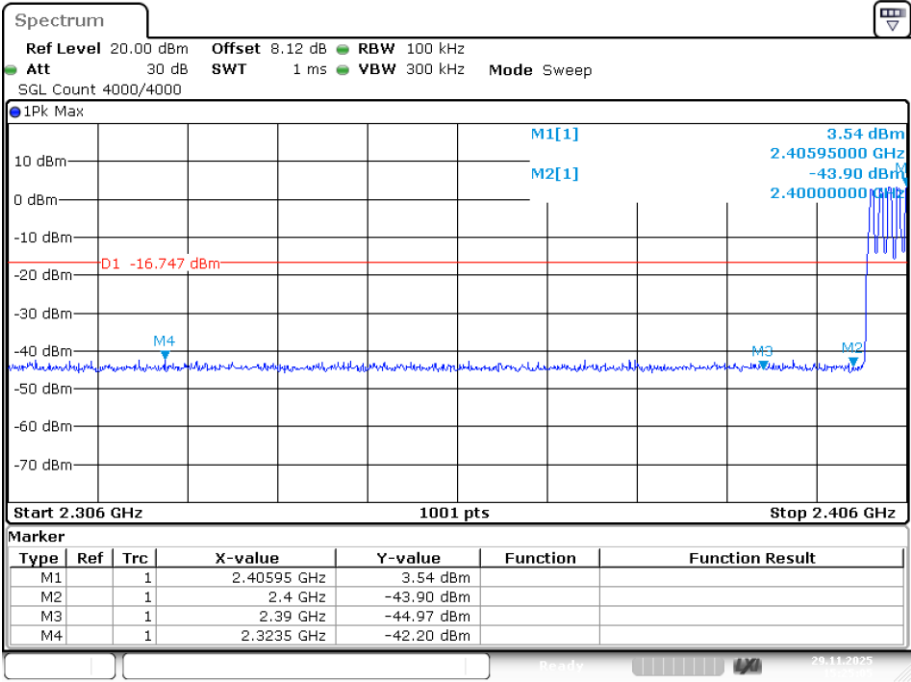
Date: 29.NOV.2025 15:49:07

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



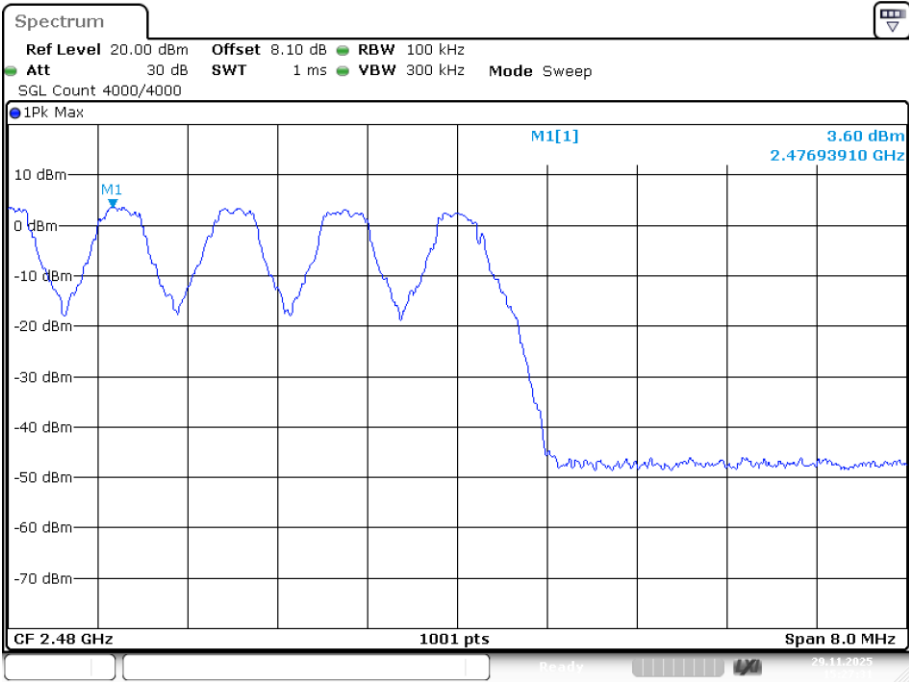
Date: 29.NOV.2025 15:24:18

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



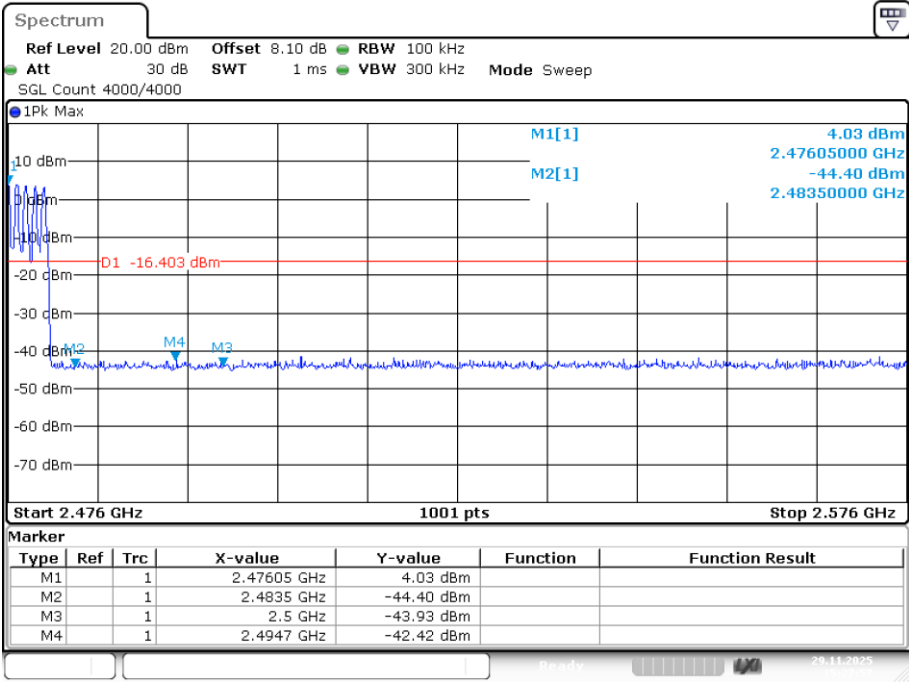
Date: 29.NOV.2025 15:25:05

Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



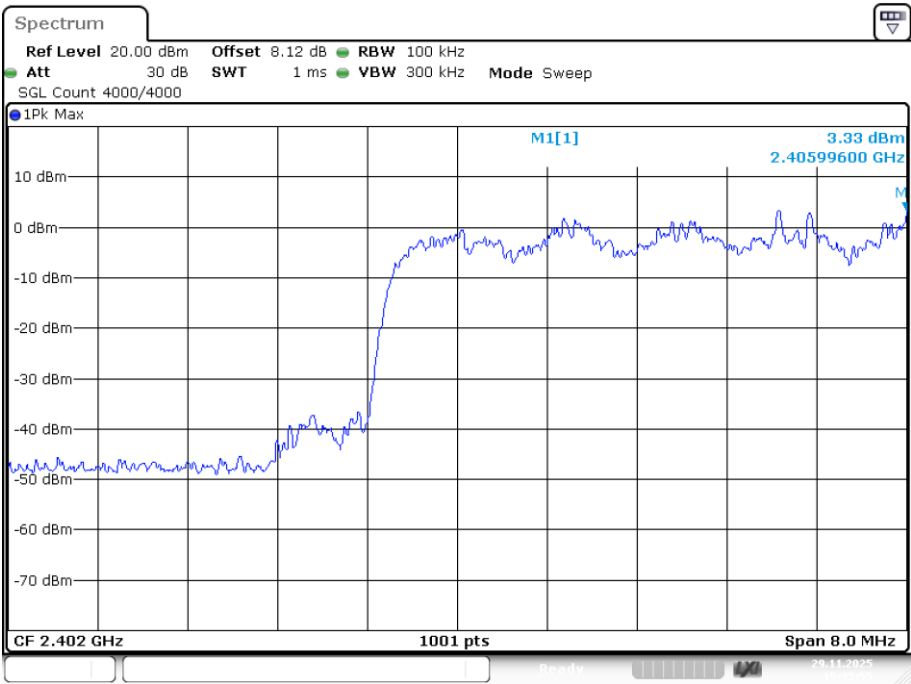
Date: 29.NOV.2025 15:27:31

Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



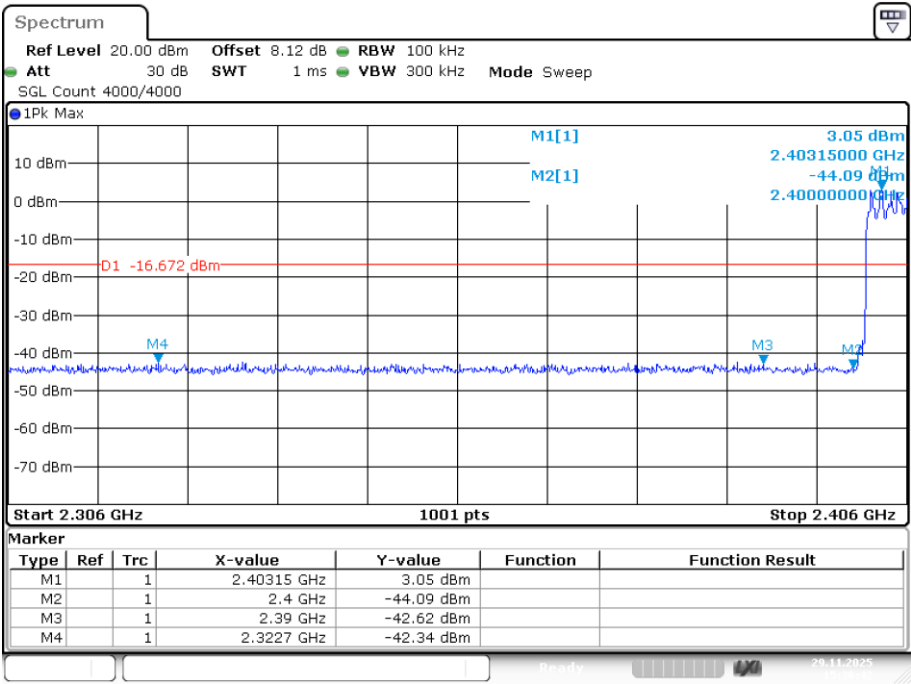
Date: 29.NOV.2025 15:27:57

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



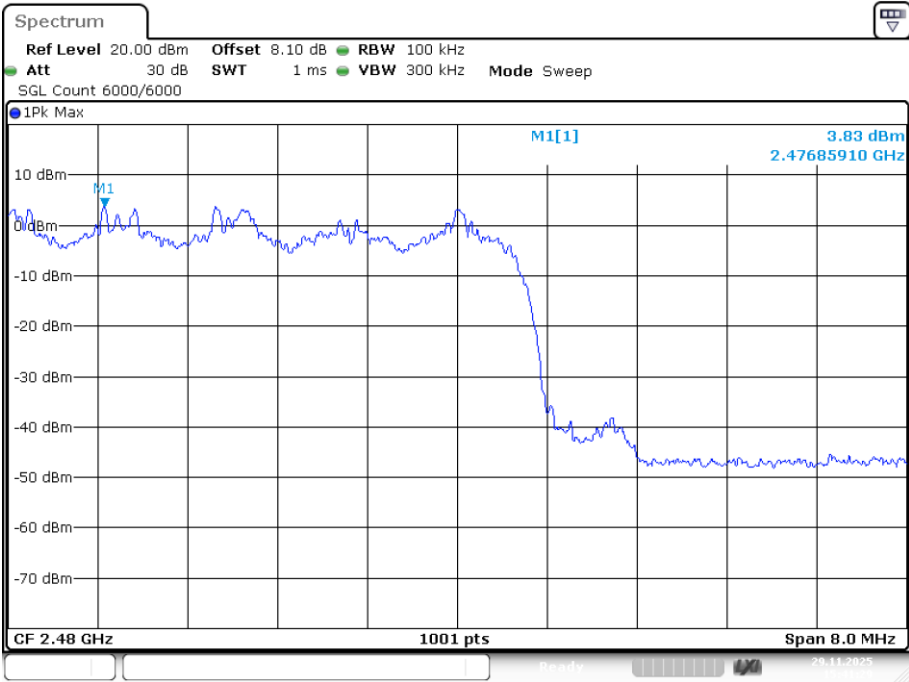
Date: 29.NOV.2025 15:35:55

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



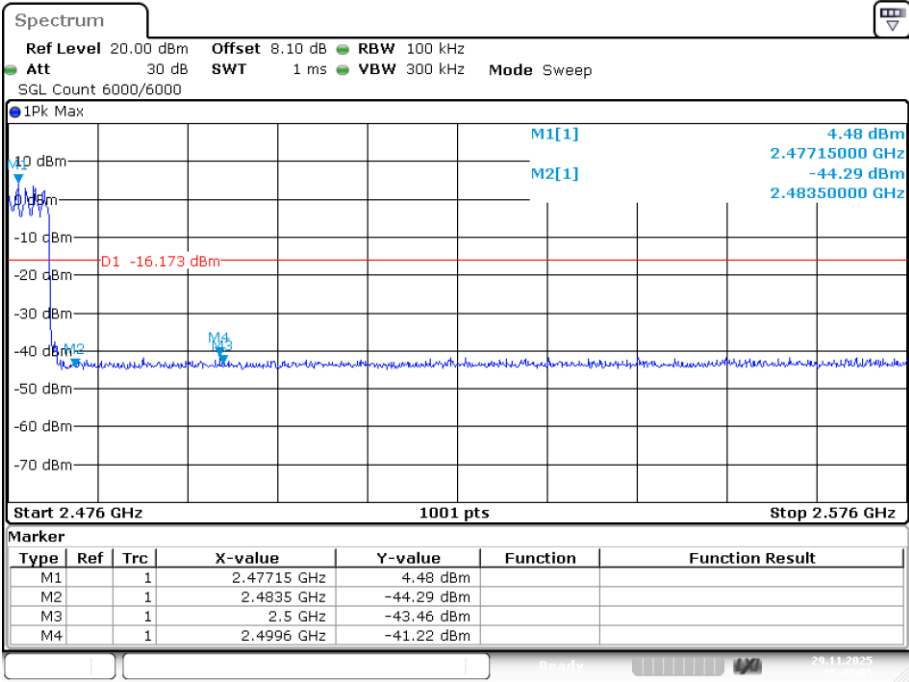
Date: 29.NOV.2025 15:36:42

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



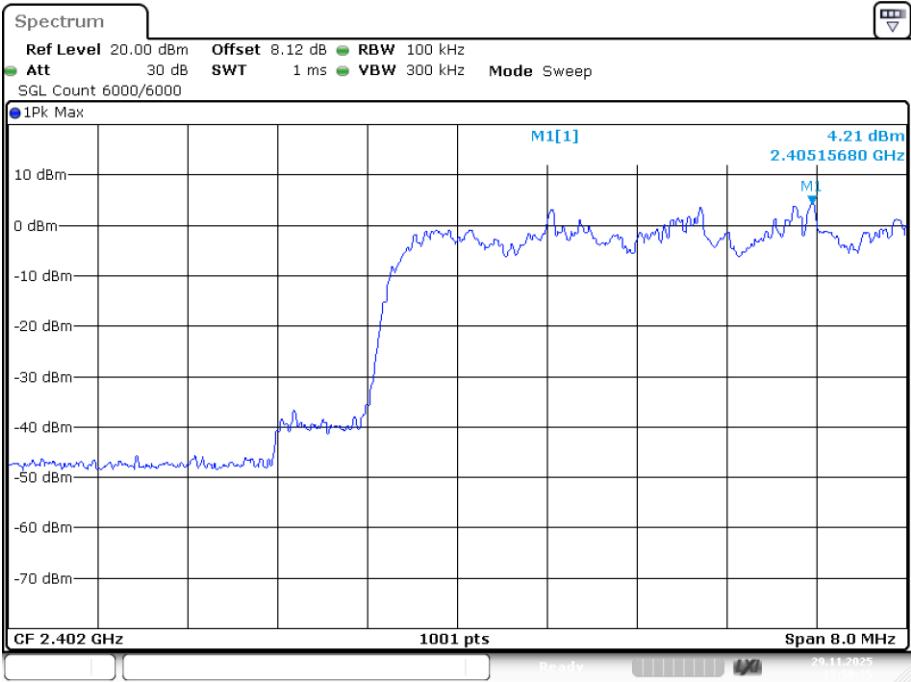
Date: 29.NOV.2025 15:41:29

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



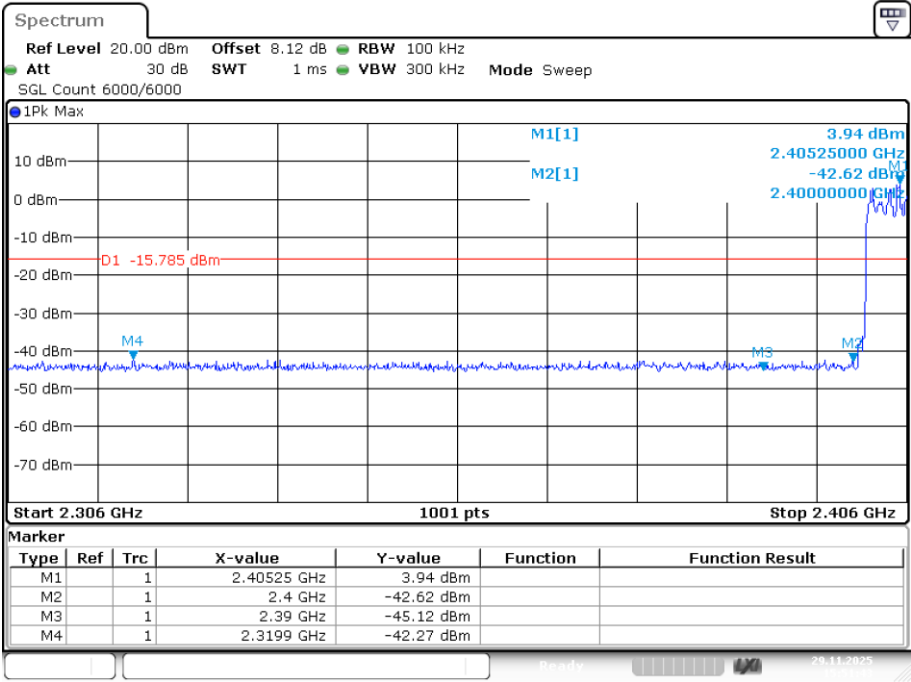
Date: 29.NOV.2025 15:42:05

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



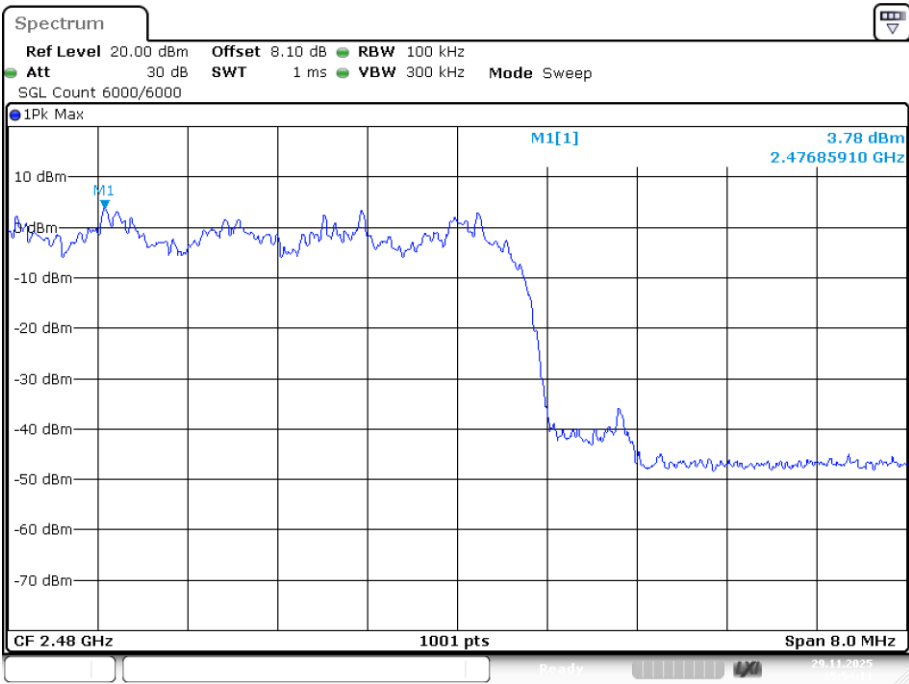
Date: 29.NOV.2025 15:50:35

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



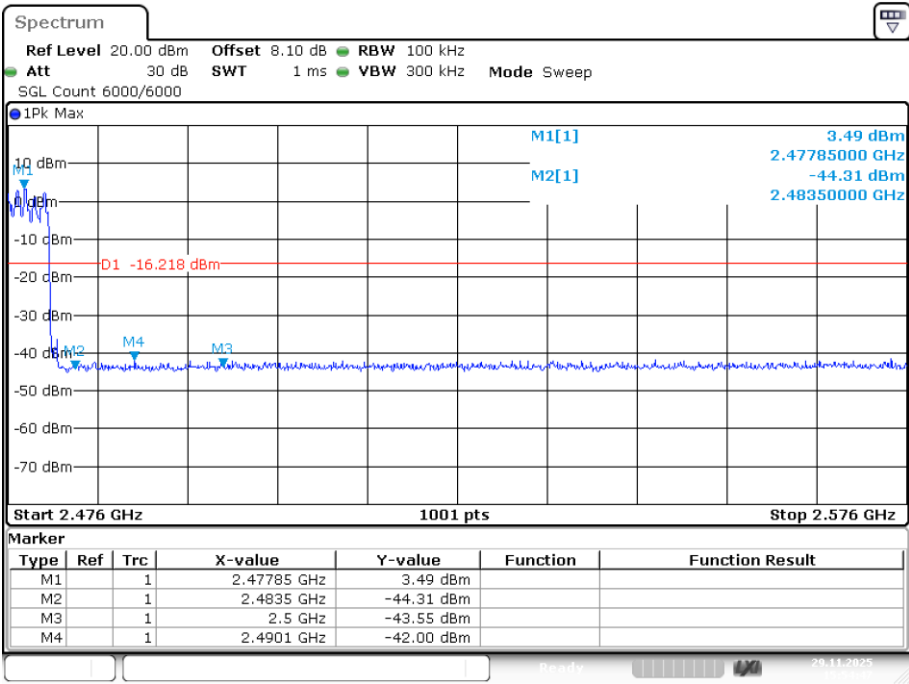
Date: 29.NOV.2025 15:51:43

Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Date: 29.NOV.2025 15:54:10

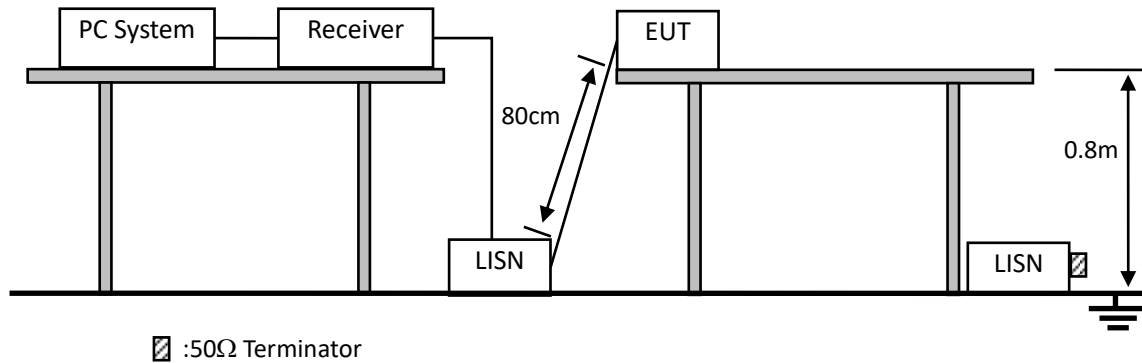
Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



Date: 29.NOV.2025 15:54:46

12. POWER LINE CONDUCTED EMISSIONS

12.1. Block Diagram of Test Setup



12.2. Limit

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

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

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

12.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2020on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

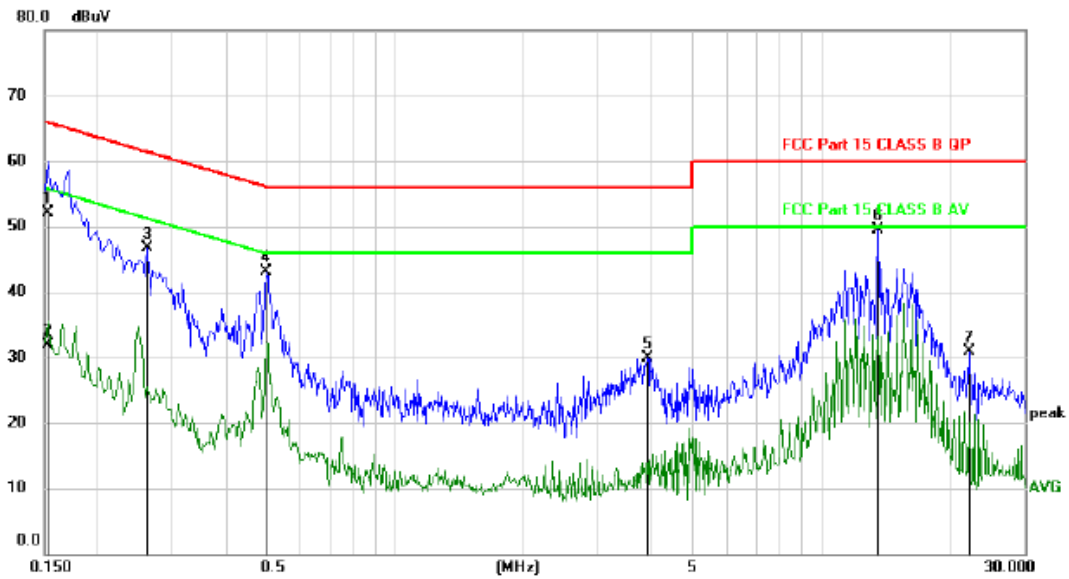
12.4. Test Result

PASS. (See below detailed test data)

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

ADP-60D24:

Line:



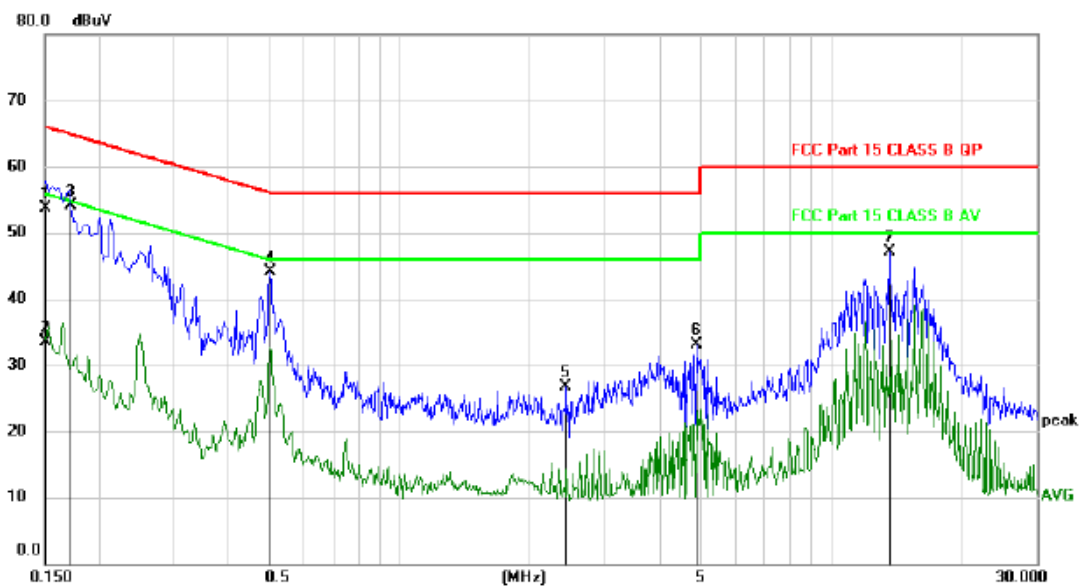
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1530	42.09	9.94	52.03	65.84	-13.81	QP	
2		0.1530	21.91	9.94	31.85	55.84	-23.99	AVG	
3		0.2610	36.68	9.96	46.64	61.40	-14.76	peak	
4		0.4980	33.11	9.96	43.07	56.03	-12.96	peak	
5		3.9180	20.01	9.96	29.97	56.00	-26.03	peak	
6	*	13.5990	39.16	10.30	49.46	60.00	-10.54	peak	
7		22.2480	20.37	10.45	30.82	60.00	-29.18	peak	

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

(Reference Only)

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

Neutral:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	43.80	9.94	53.74	66.00	-12.26	QP	
2		0.1500	23.61	9.94	33.55	56.00	-22.45	AVG	
3	*	0.1722	44.13	9.93	54.06	64.85	-10.79	peak	
4		0.5010	34.08	9.96	44.04	56.00	-11.96	peak	
5		2.4329	16.79	9.90	26.69	56.00	-29.31	peak	
6		4.8659	22.99	10.03	33.02	56.00	-22.98	peak	
7		13.6410	36.83	10.30	47.13	60.00	-12.87	peak	

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

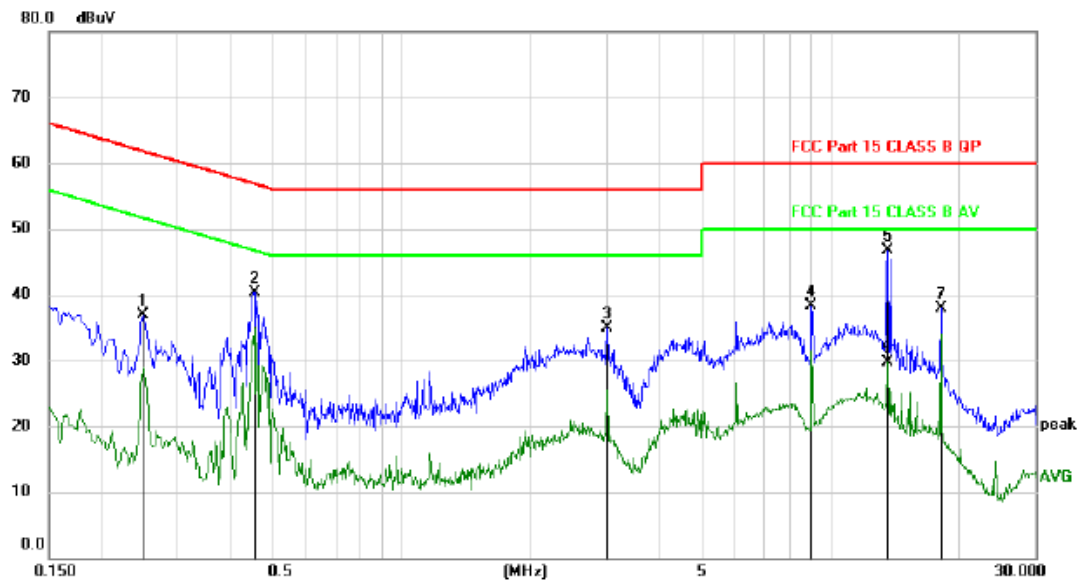
(Reference Only)

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

Note: All modes and channels have been tested and only the GFSK 2402MHz mode with the worst data is listed.

2102M-120300E:

Line:



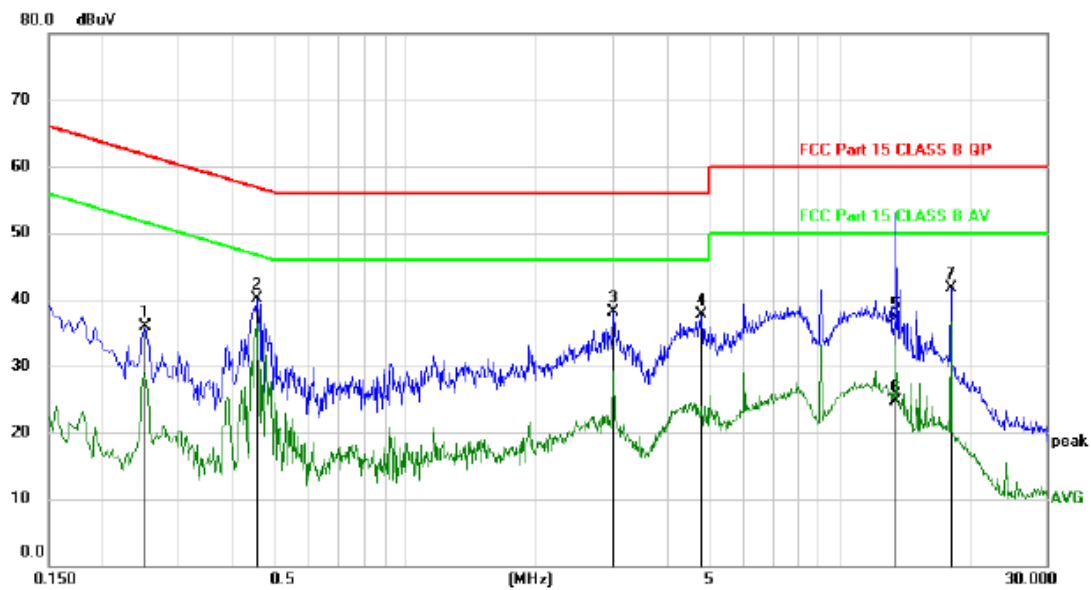
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2490	26.88	9.97	36.85	61.79	-24.94	peak	
2		0.4530	30.35	9.95	40.30	56.82	-16.52	peak	
3		3.0180	24.93	9.95	34.88	56.00	-21.12	peak	
4		9.0570	28.16	10.18	38.34	60.00	-21.66	peak	
5	*	13.6110	36.32	10.30	46.62	60.00	-13.38	peak	
6		13.6110	19.38	10.30	29.68	50.00	-20.32	AVG	
7		18.1230	27.53	10.42	37.95	60.00	-22.05	peak	

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

(Reference Only)

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

Neutral:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.2519	25.95	9.97	35.92	61.69	-25.77	peak	
2	*	0.4530	30.07	9.95	40.02	56.82	-16.80	peak	
3		3.0180	28.17	9.95	38.12	56.00	-17.88	peak	
4		4.8060	27.60	10.02	37.62	56.00	-18.38	peak	
5		13.5420	26.89	10.29	37.18	60.00	-22.82	QP	
6		13.5420	14.38	10.29	24.67	50.00	-25.33	AVG	
7		18.1200	31.37	10.42	41.79	60.00	-18.21	peak	

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

(Reference Only)

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

Note: All modes and channels have been tested and only the GFSK 2402MHz mode with the worst data is listed.

13. ANTENNA REQUIREMENTS

13.1.Limit

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

13.2.Result

The EUT antenna is Internal Antenna. It complies with the standard requirement.

14. TEST SETUP PHOTO

14.1. Photo of Radiated Emission test

ADP-60D24:



2102M-120300E:



14.2.Photo of Conducted Emission test

ADP-60D24:



2102M-120300E:



15.PHOTOS OF EUT

ADP-60D24



