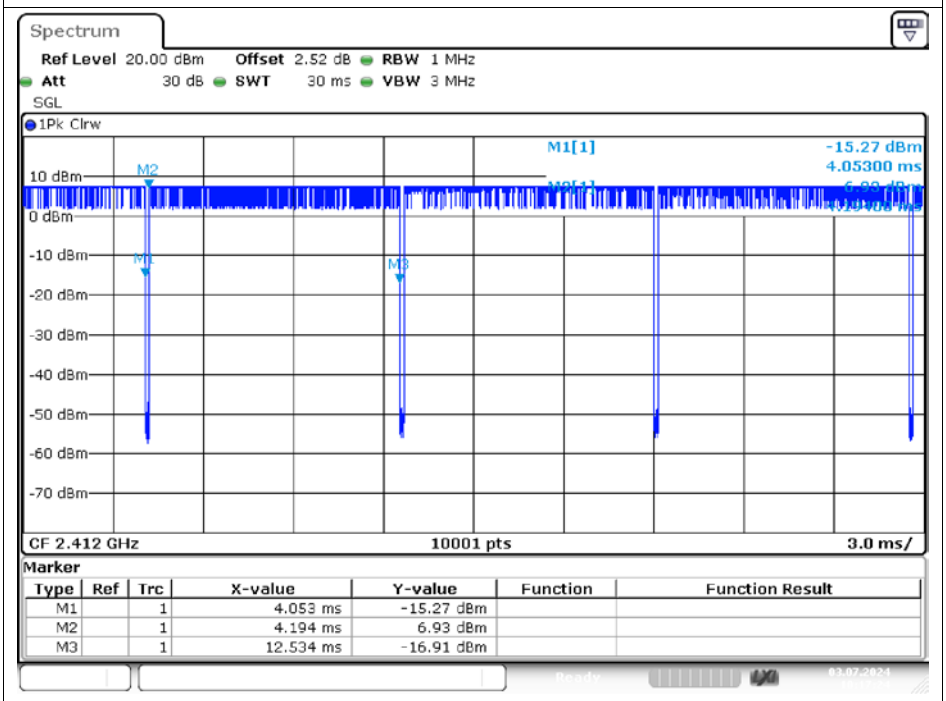
Appendix A

Duty Cycle

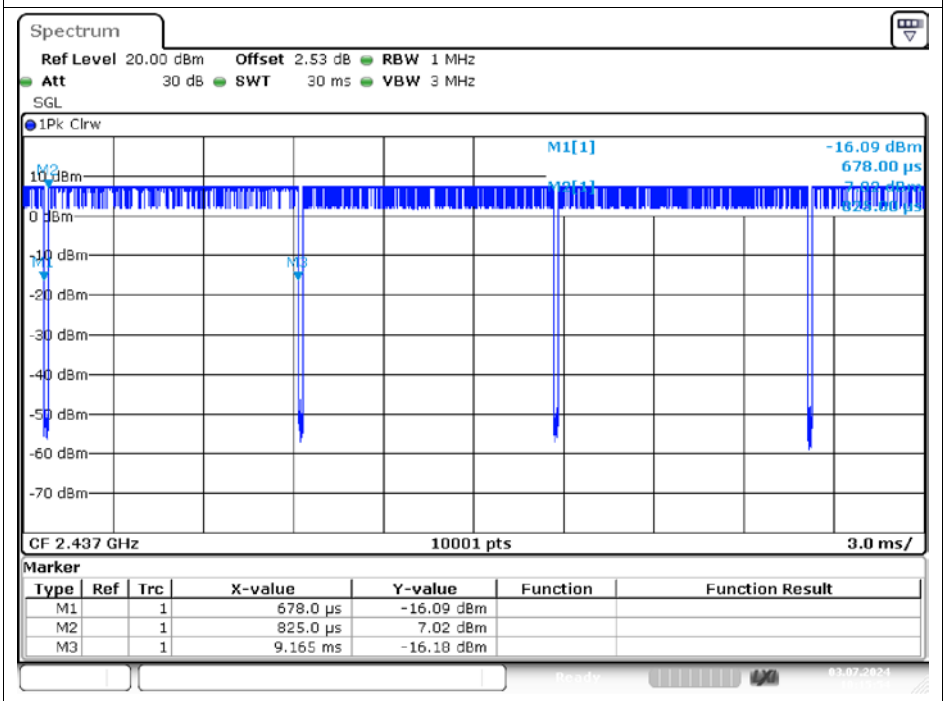
Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	b	2412	Ant1	8.34	8.48	98.35	0	0.12	1
NVNT	b	2437	Ant1	8.34	8.49	98.23	0	0.12	1
NVNT	b	2462	Ant1	8.34	8.48	98.35	0	0.12	1
NVNT	g	2412	Ant1	1.38	1.42	97.18	0.12	0.73	1
NVNT	g	2437	Ant1	1.38	1.42	97.18	0.12	0.73	1
NVNT	g	2462	Ant1	1.38	1.42	97.18	0.12	0.72	1
NVNT	n20	2412	Ant1	1.29	1.33	96.99	0.13	0.78	1
NVNT	n20	2437	Ant1	1.29	1.33	96.99	0.13	0.78	1
NVNT	n20	2462	Ant1	1.29	1.33	96.99	0.13	0.78	1

Test Graphs

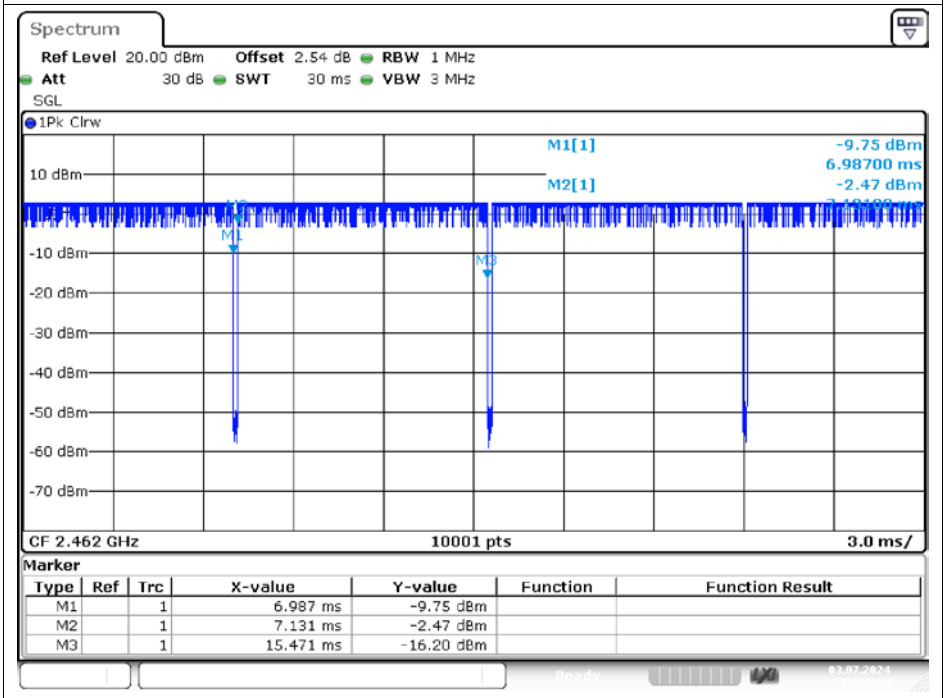
Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1

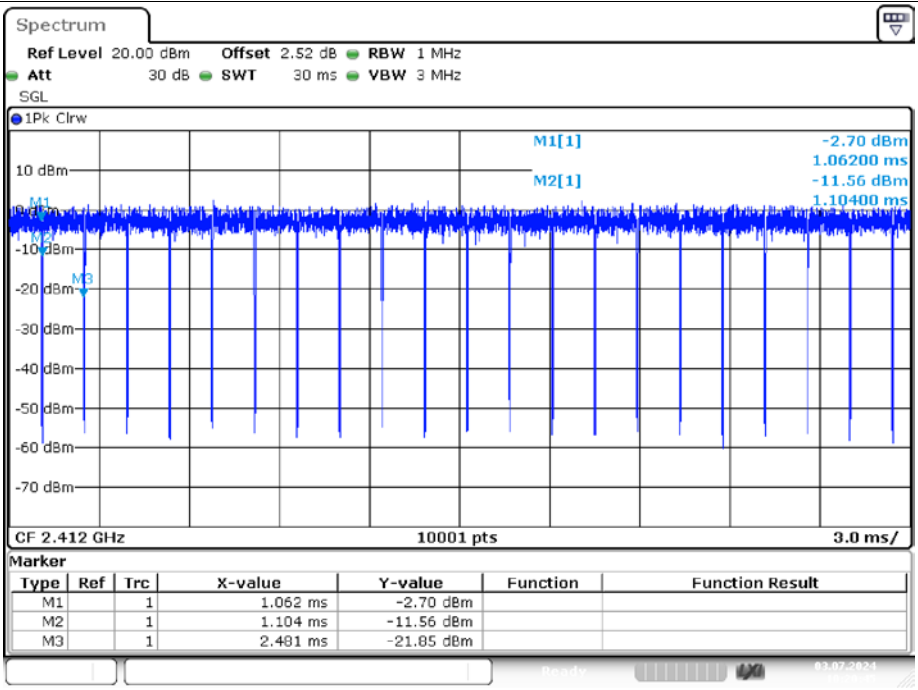


Duty Cycle NVNT b 2462MHz Ant1



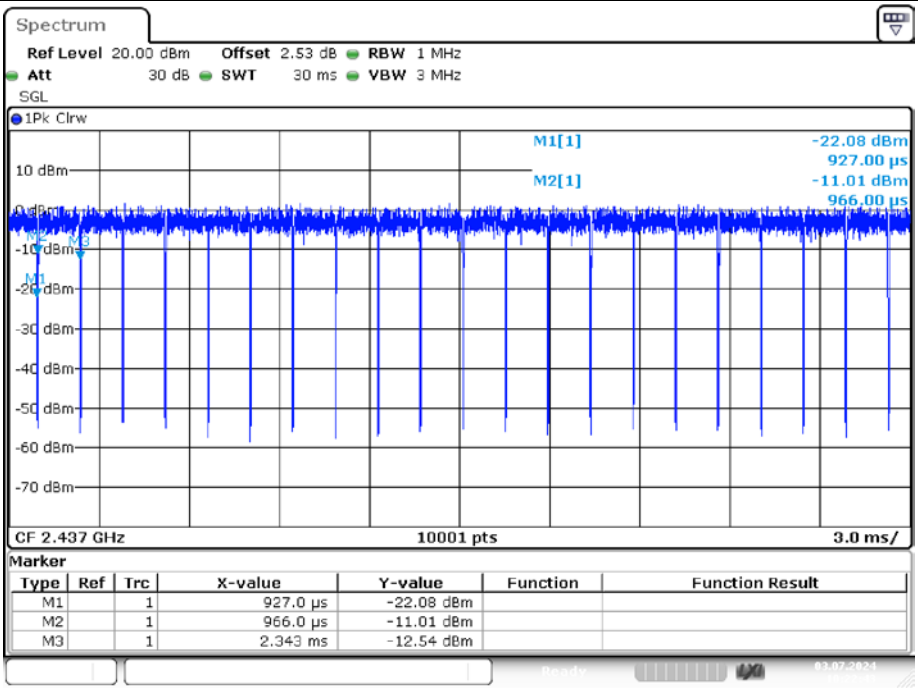
Date: 3.JUL.2024 10:13:08

Duty Cycle NVNT g 2412MHz Ant1



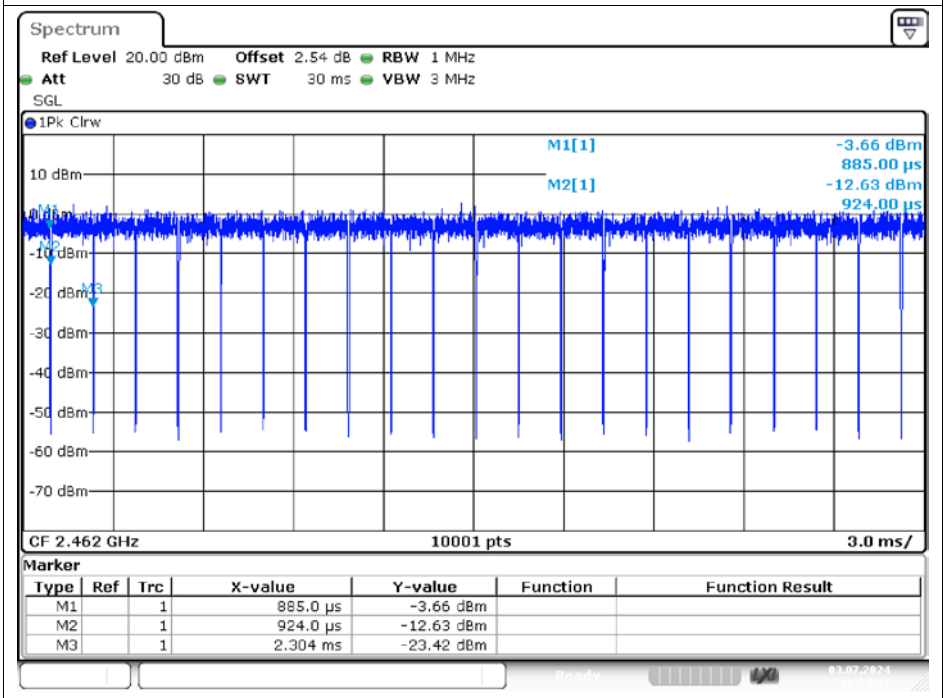
Date: 3.JUL.2024 10:20:46

Duty Cycle NVNT g 2437MHz Ant1



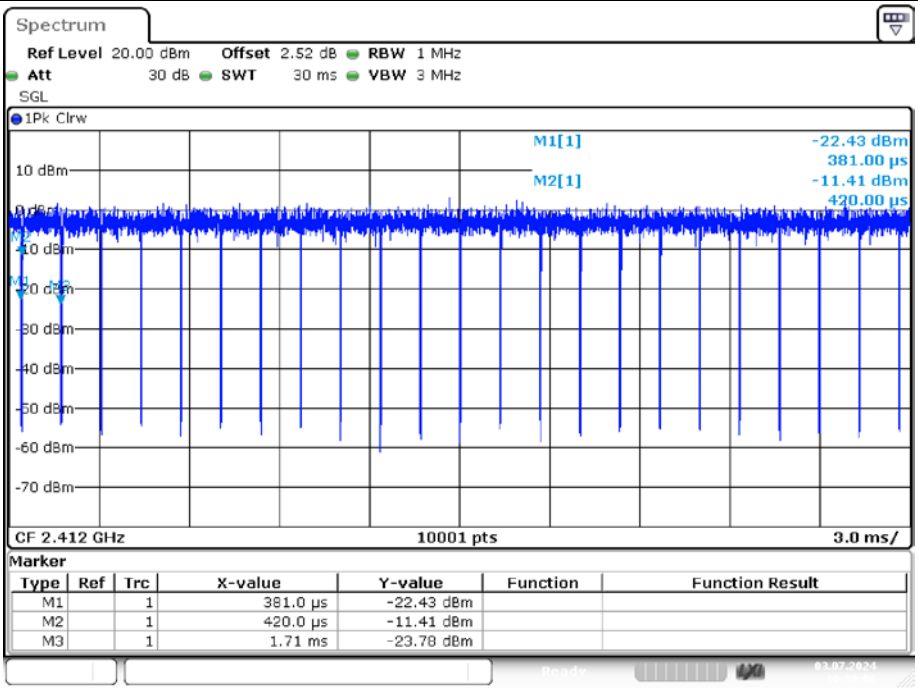
Date: 3.JUL.2024 10:22:44

Duty Cycle NVNT g 2462MHz Ant1



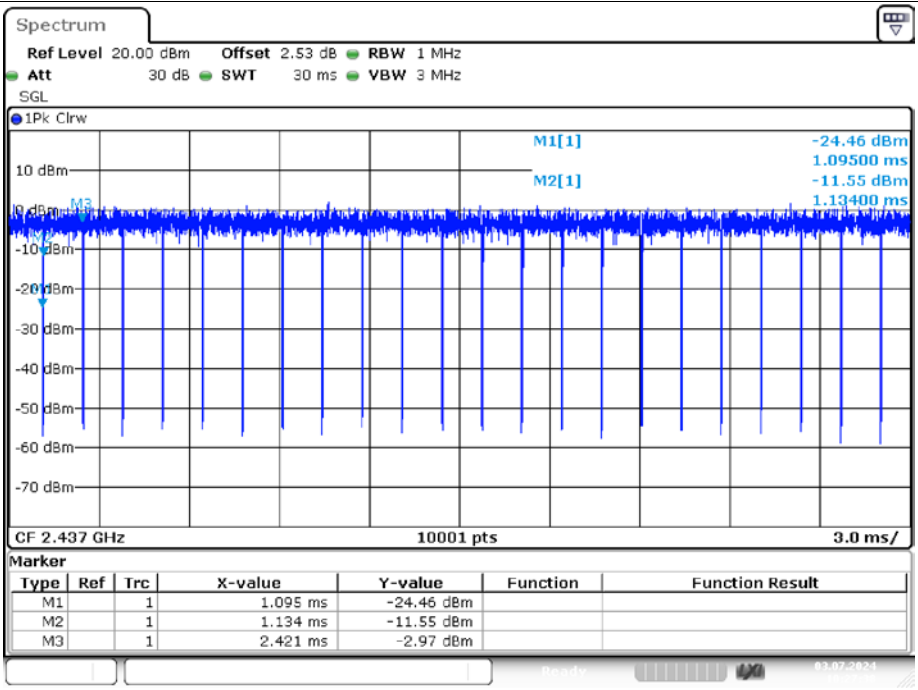
Date: 3.JUL.2024 10:24:13

Duty Cycle NVNT n20 2412MHz Ant1



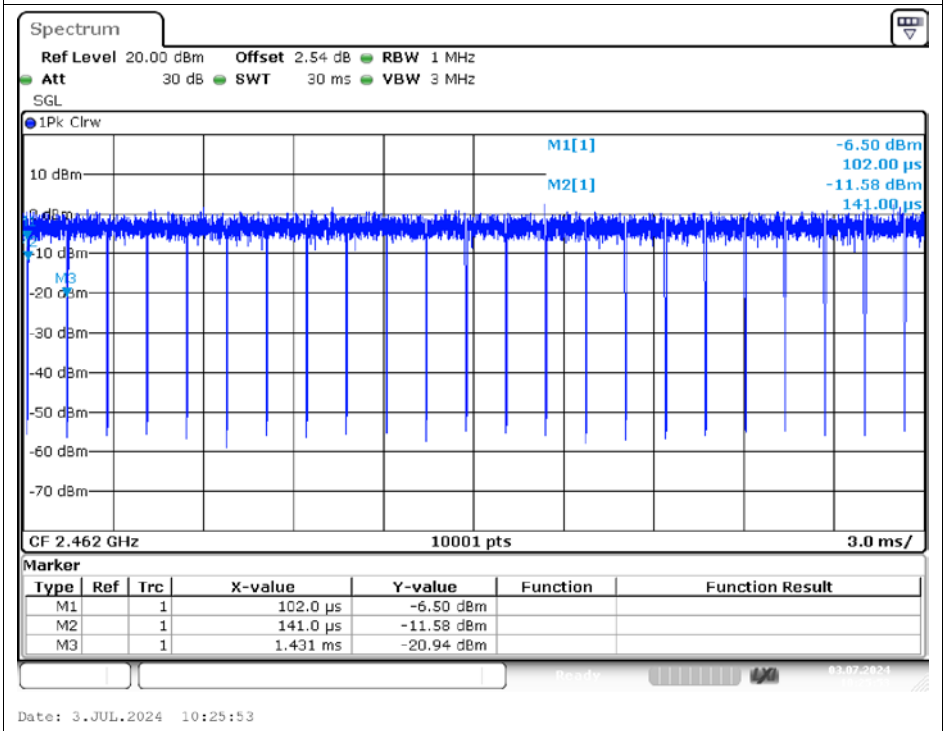
Date: 3.JUL.2024 10:30:08

Duty Cycle NVNT n20 2437MHz Ant1



Date: 3.JUL.2024 10:27:38

Duty Cycle NVNT n20 2462MHz Ant1

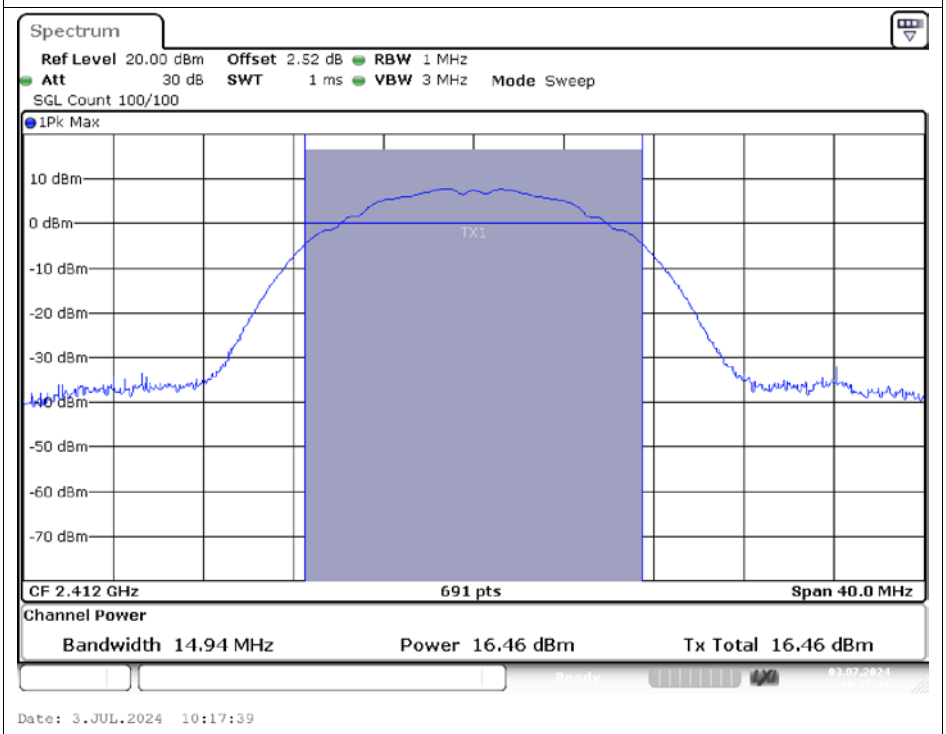


Maximum Conducted Output Power

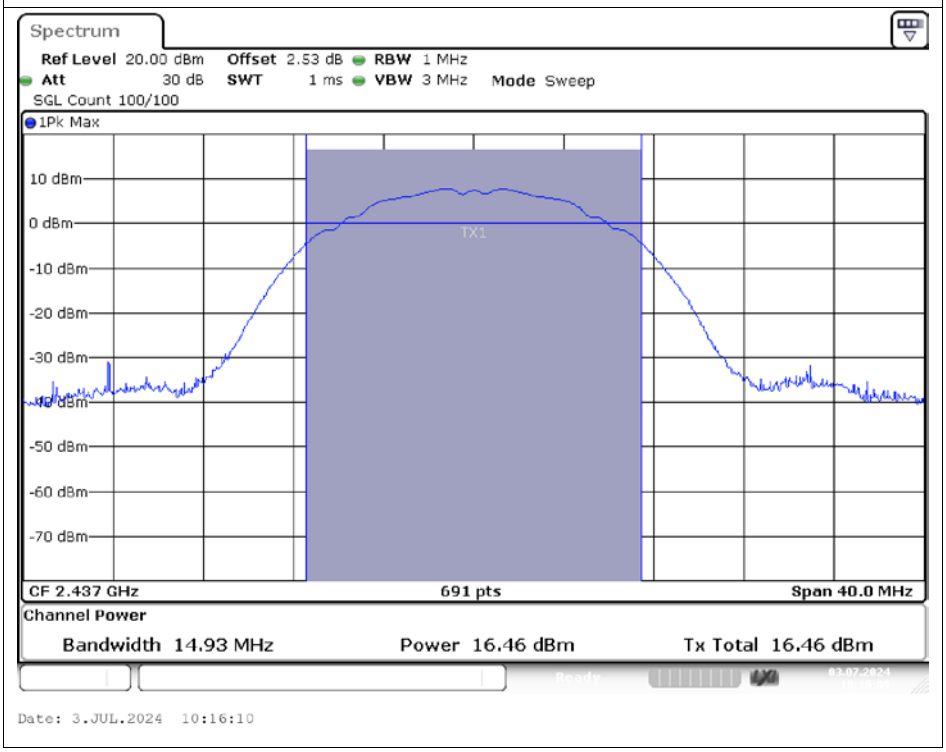
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.46	0	16.46	30	Pass
NVNT	b	2437	Ant1	16.46	0	16.46	30	Pass
NVNT	b	2462	Ant1	16.48	0	16.48	30	Pass
NVNT	g	2412	Ant1	13.26	0	13.26	30	Pass
NVNT	g	2437	Ant1	13.03	0	13.03	30	Pass
NVNT	g	2462	Ant1	13.01	0	13.01	30	Pass
NVNT	n20	2412	Ant1	13.27	0	13.27	30	Pass
NVNT	n20	2437	Ant1	13.06	0	13.06	30	Pass
NVNT	n20	2462	Ant1	12.96	0	12.96	30	Pass

Test Graphs

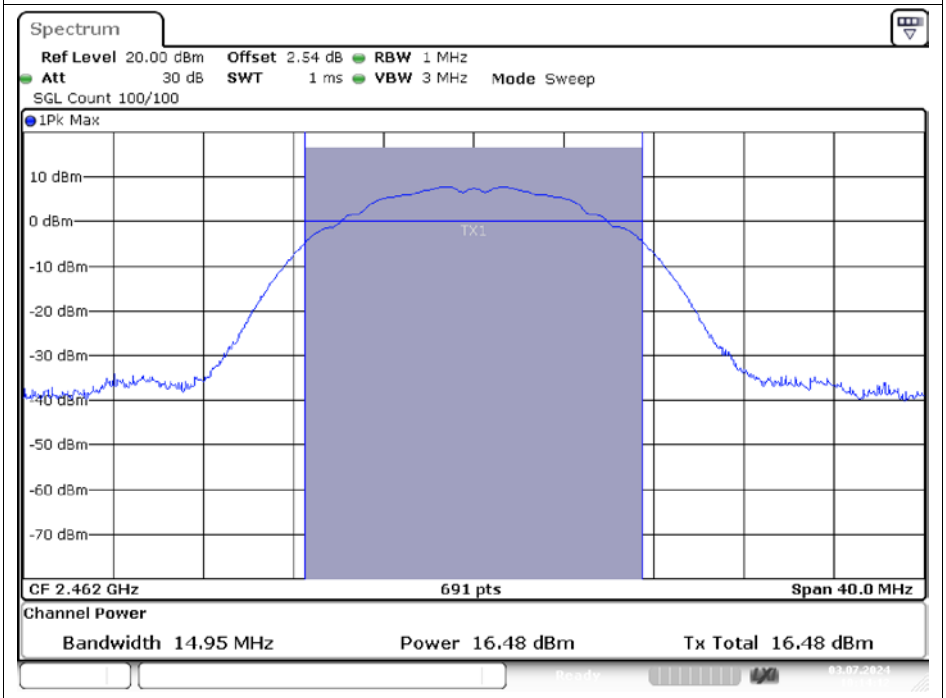
Power NVNT b 2412MHz Ant1



Power NVNT b 2437MHz Ant1

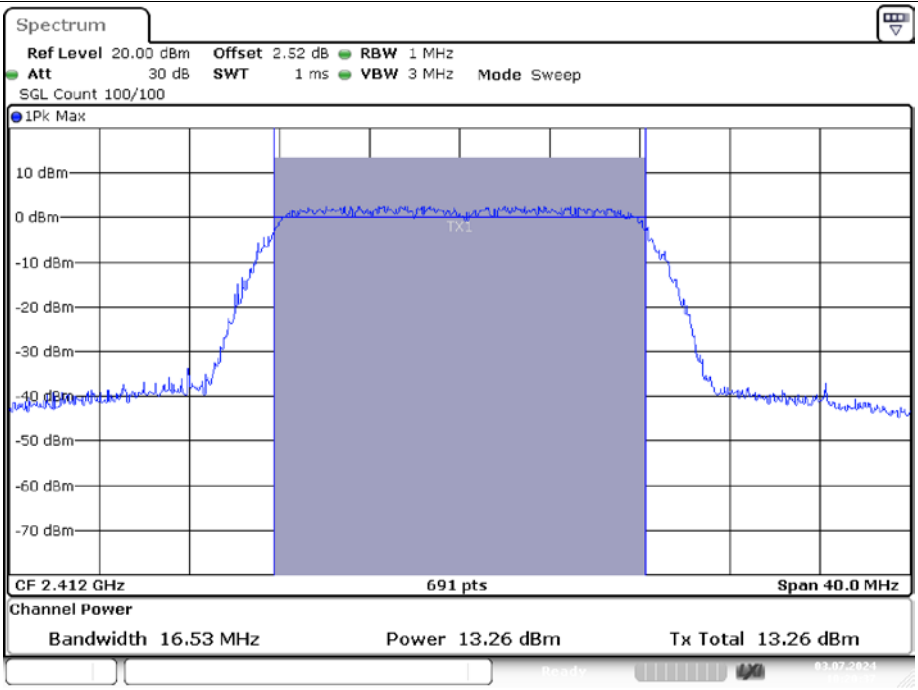


Power NVNT b 2462MHz Ant1



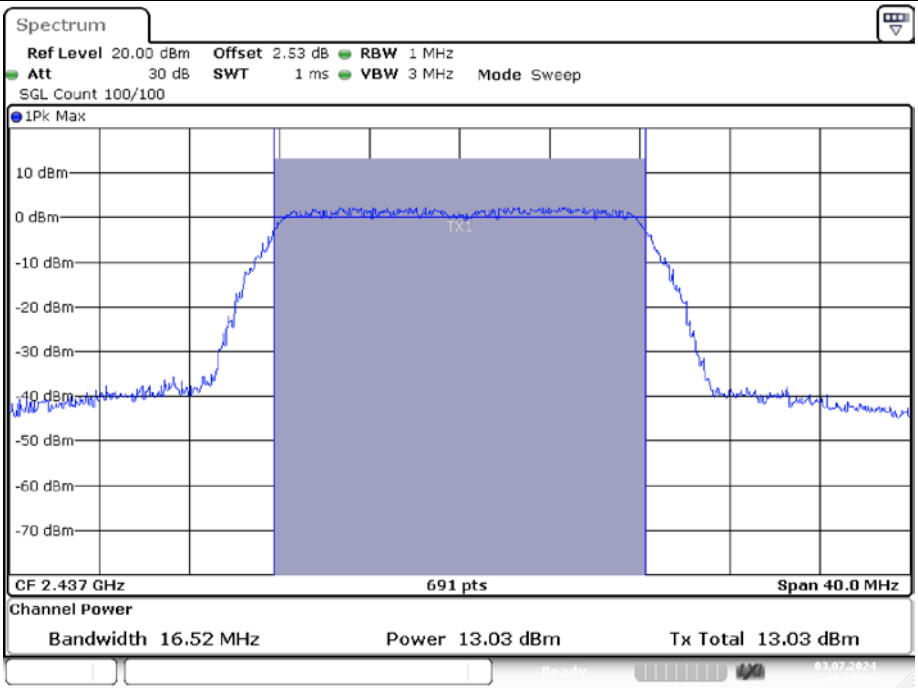
Date: 3.JUL.2024 10:14:12

Power NVNT g 2412MHz Ant1



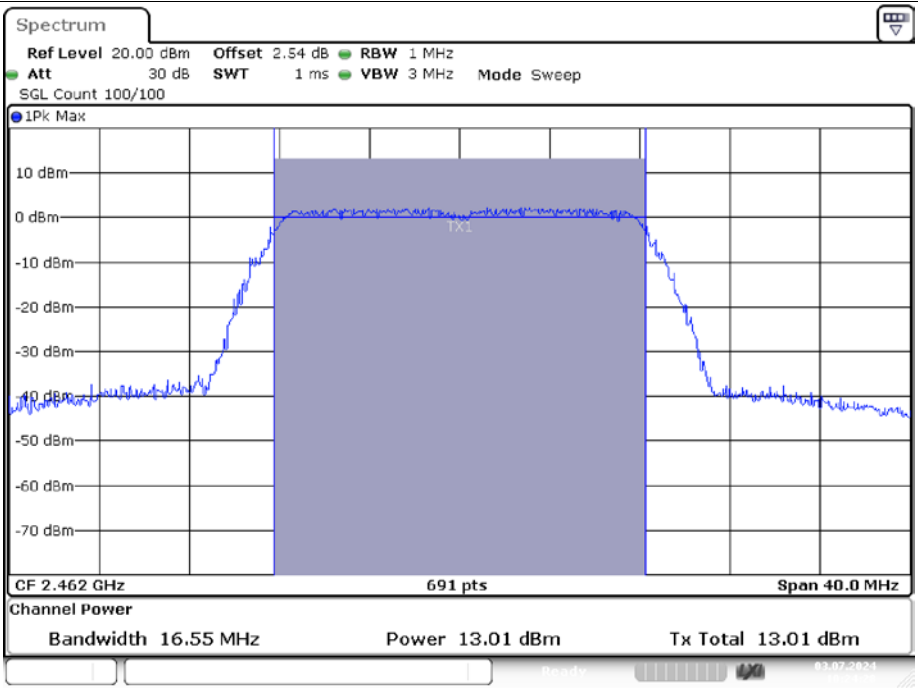
Date: 3.JUL.2024 10:20:37

Power NVNT g 2437MHz Ant1



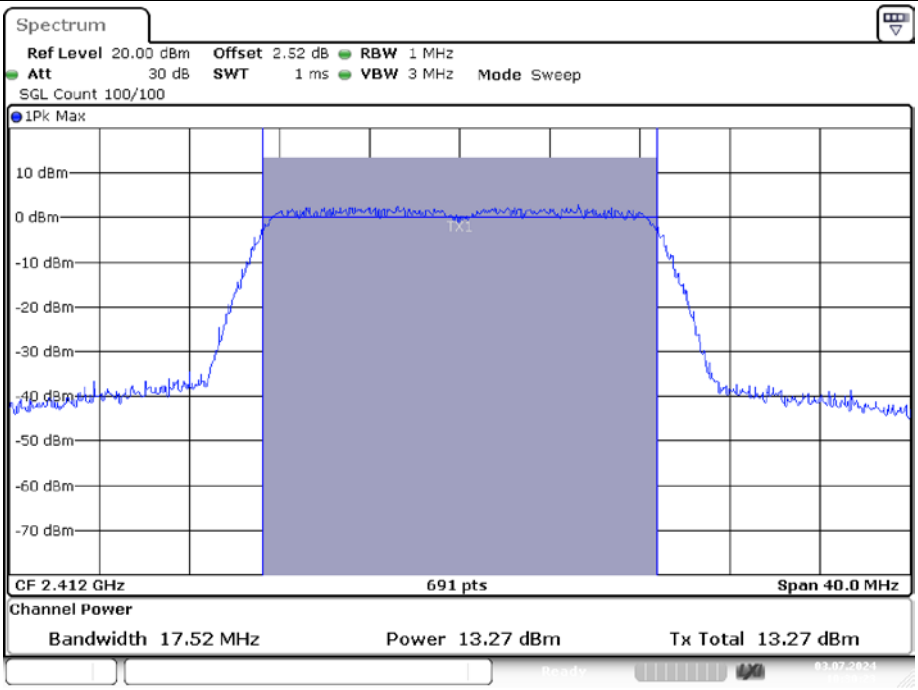
Date: 3.JUL.2024 10:22:59

Power NVNT g 2462MHz Ant1



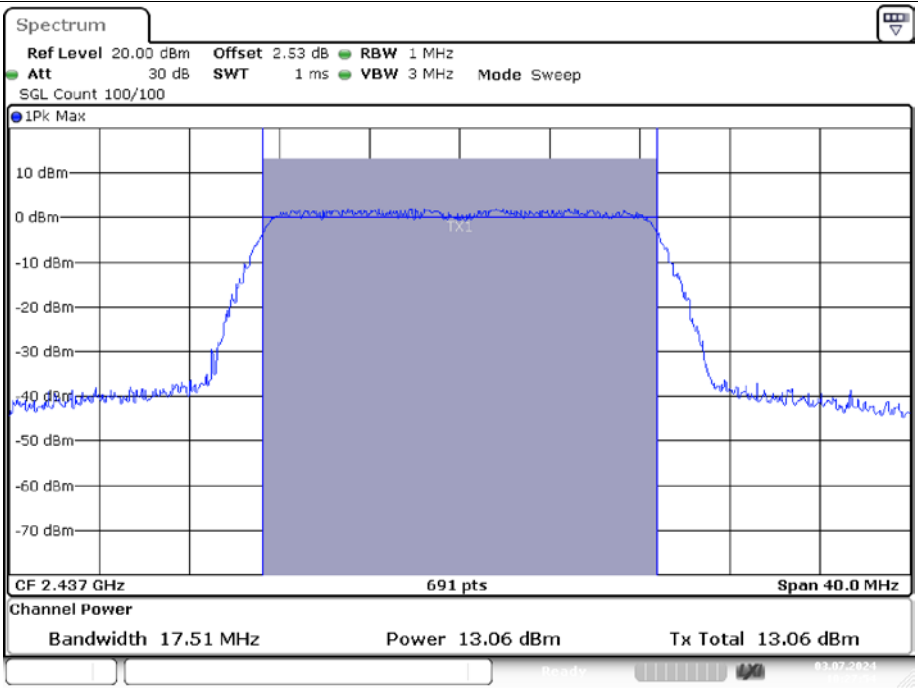
Date: 3.JUL.2024 10:24:28

Power NVNT n20 2412MHz Ant1



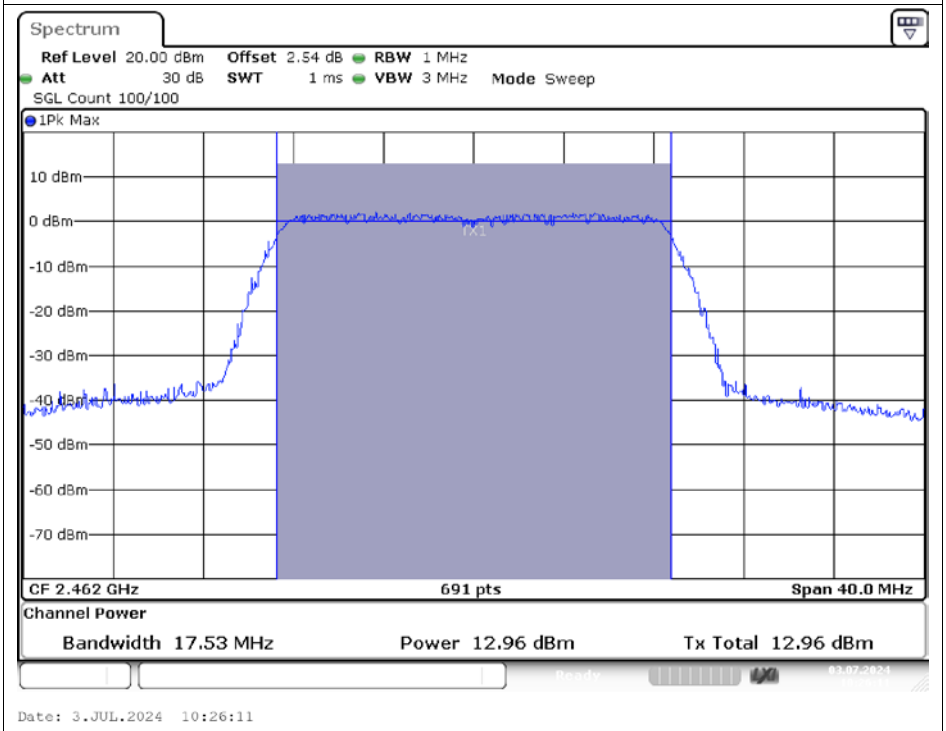
Date: 3.JUL.2024 10:30:23

Power NVNT n20 2437MHz Ant1



Date: 3.JUL.2024 10:27:53

Power NVNT n20 2462MHz Ant1

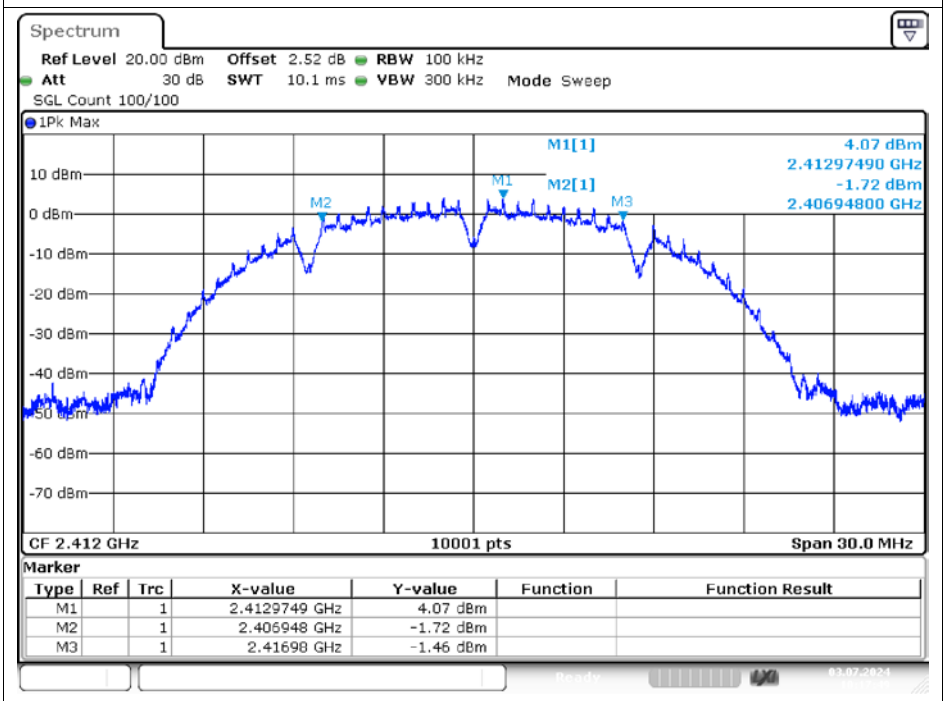


-6dB Bandwidth

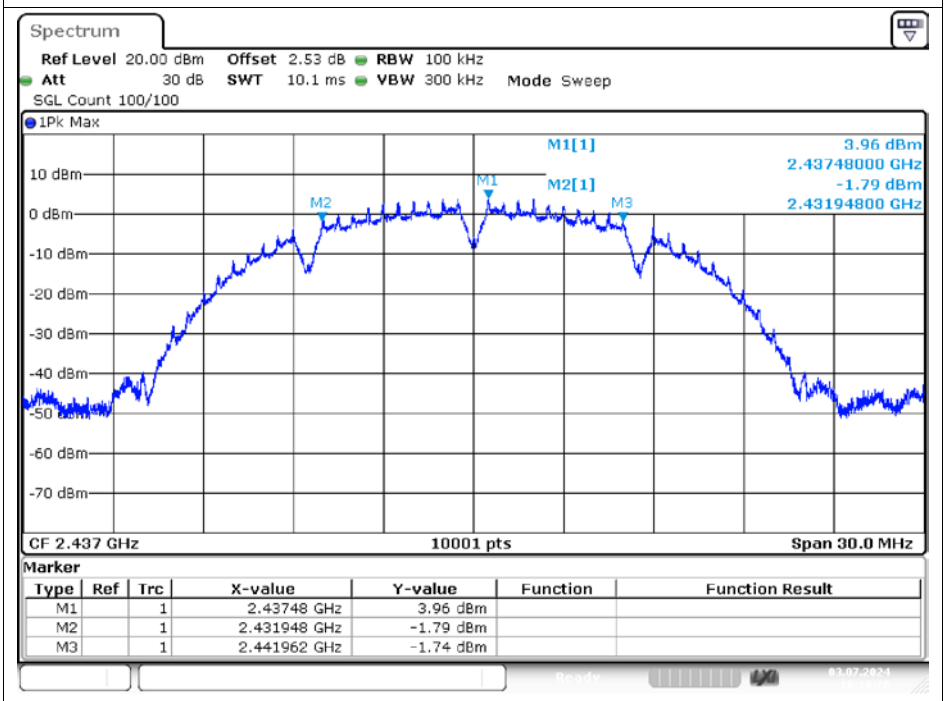
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.03	0.5	Pass
NVNT	b	2437	Ant1	10.01	0.5	Pass
NVNT	b	2462	Ant1	9.99	0.5	Pass
NVNT	g	2412	Ant1	16.32	0.5	Pass
NVNT	g	2437	Ant1	16.33	0.5	Pass
NVNT	g	2462	Ant1	16.33	0.5	Pass
NVNT	n20	2412	Ant1	17.05	0.5	Pass
NVNT	n20	2437	Ant1	17.08	0.5	Pass
NVNT	n20	2462	Ant1	17.06	0.5	Pass

Test Graphs

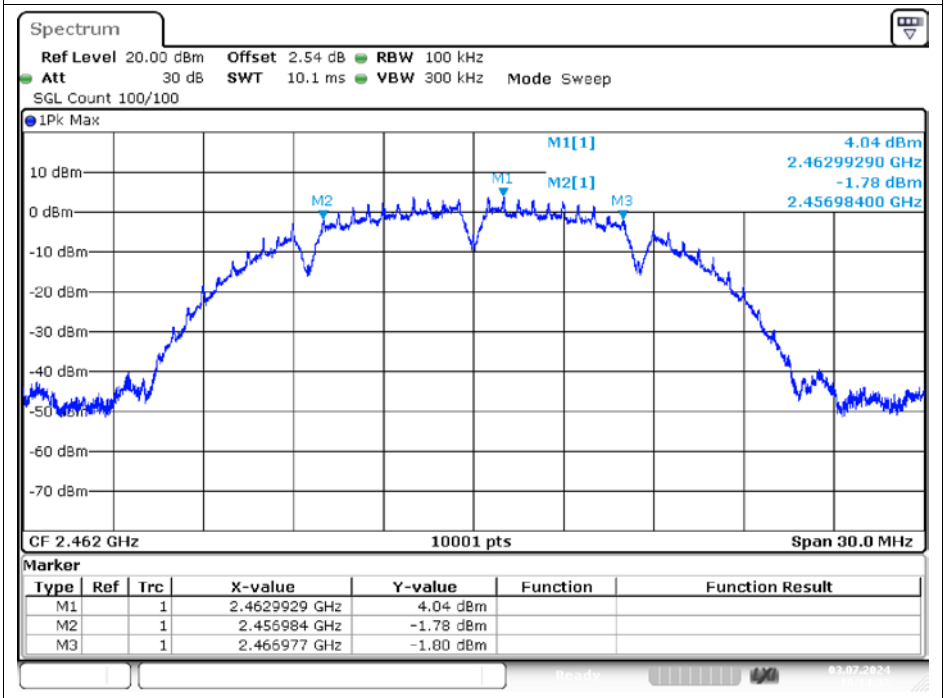
-6dB Bandwidth NVNT b 2412MHz Ant1



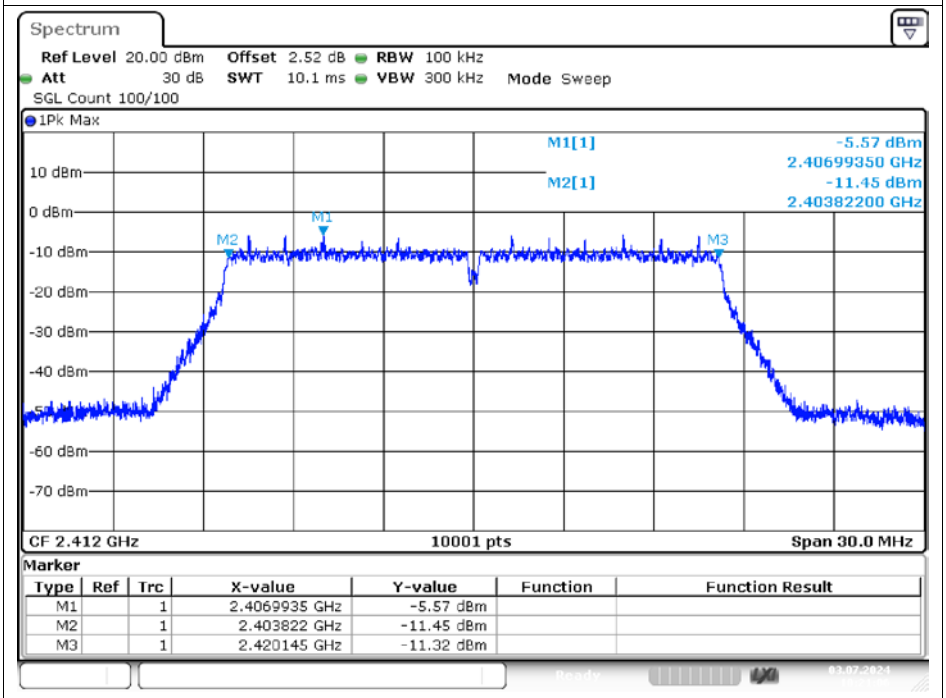
-6dB Bandwidth NVNT b 2437MHz Ant1



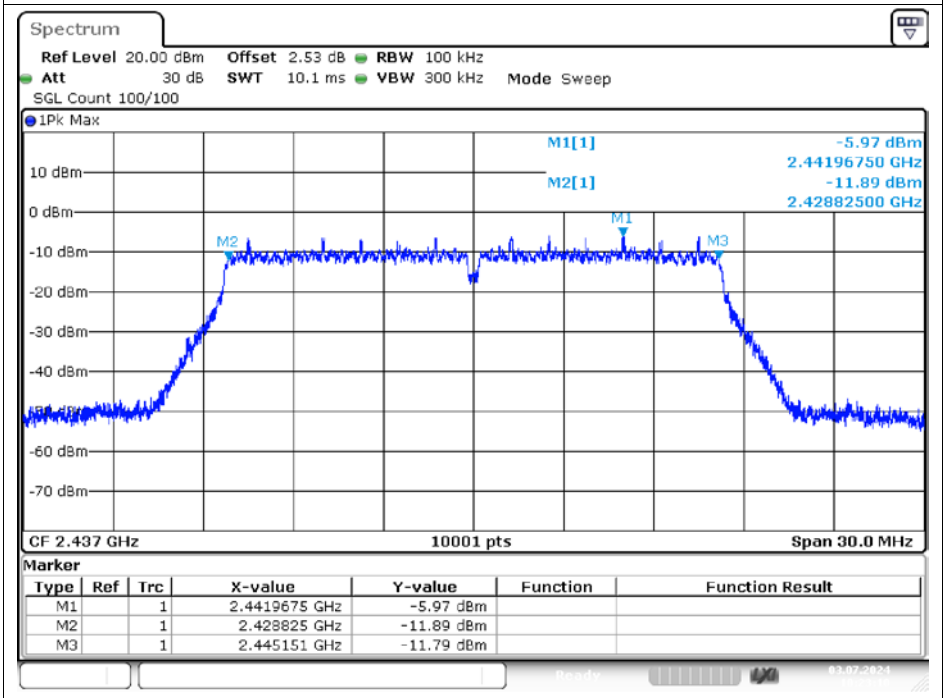
-6dB Bandwidth NVNT b 2462MHz Ant1



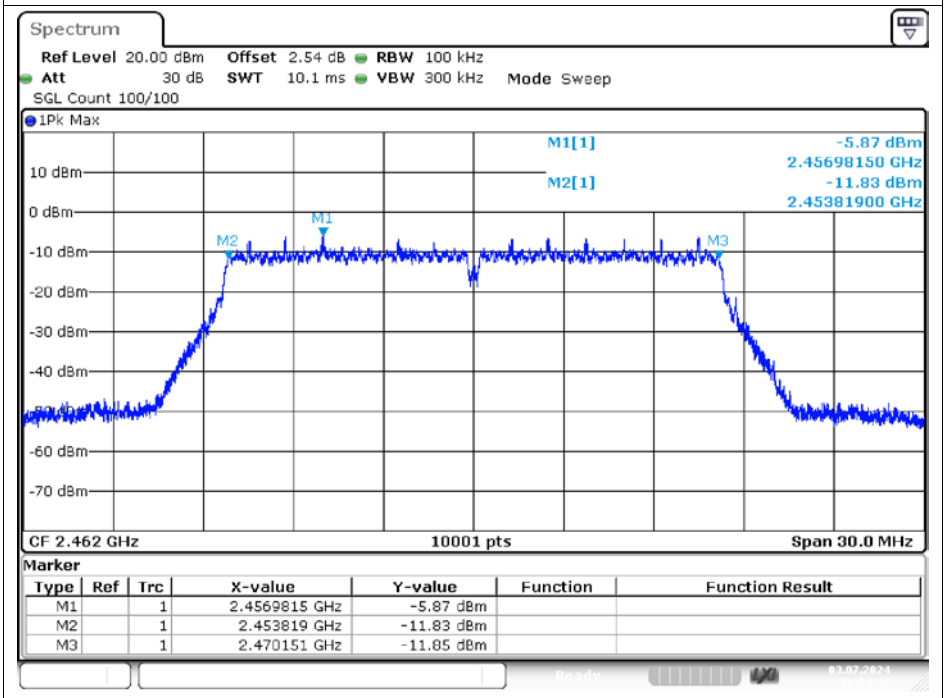
-6dB Bandwidth NVNT g 2412MHz Ant1



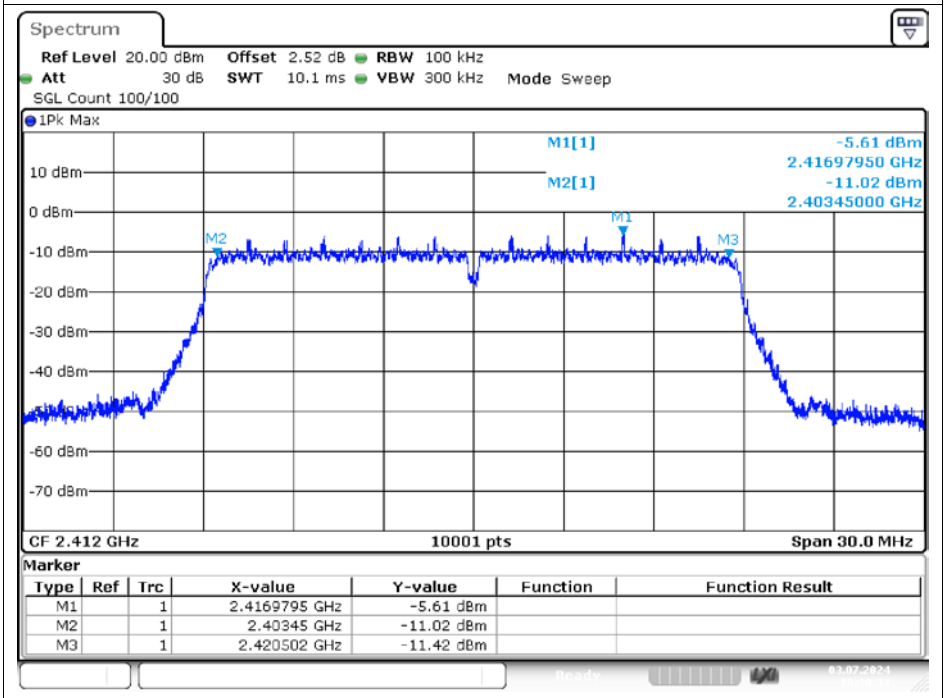
-6dB Bandwidth NVNT g 2437MHz Ant1



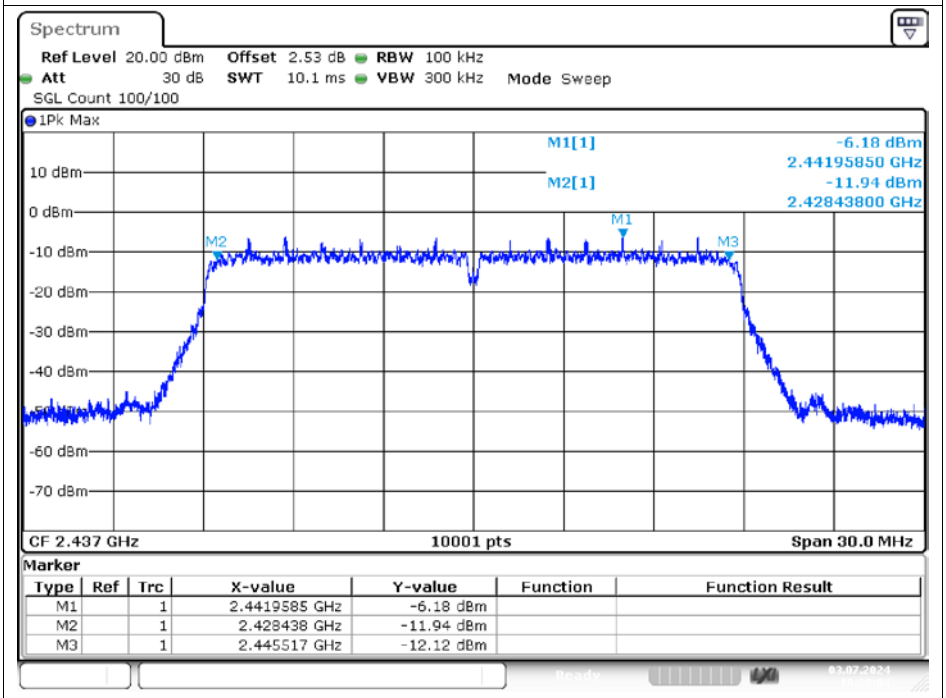
-6dB Bandwidth NVNT g 2462MHz Ant1



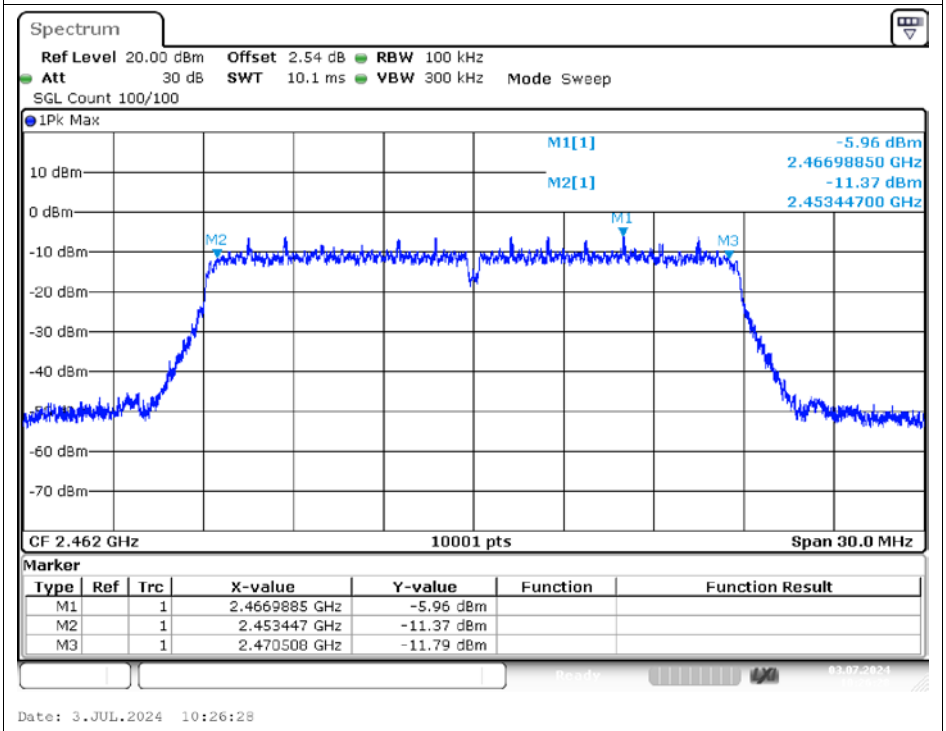
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1

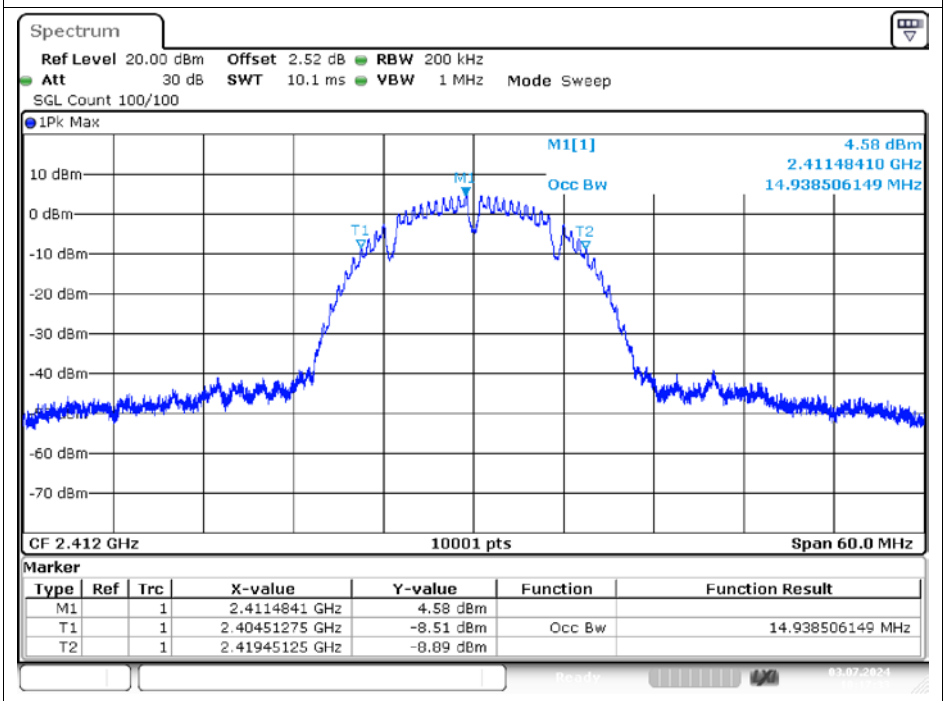


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.939
NVNT	b	2437	Ant1	14.927
NVNT	b	2462	Ant1	14.945
NVNT	g	2412	Ant1	16.51
NVNT	g	2437	Ant1	16.516
NVNT	g	2462	Ant1	16.546
NVNT	n20	2412	Ant1	17.518
NVNT	n20	2437	Ant1	17.512
NVNT	n20	2462	Ant1	17.53

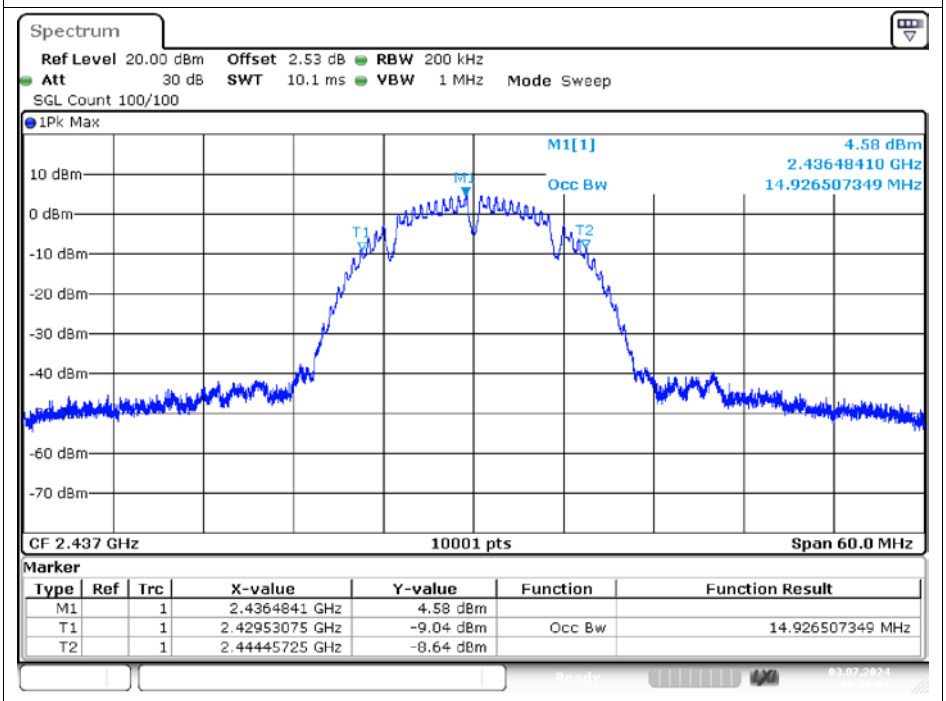
Test Graphs

OBW NVNT b 2412MHz Ant1



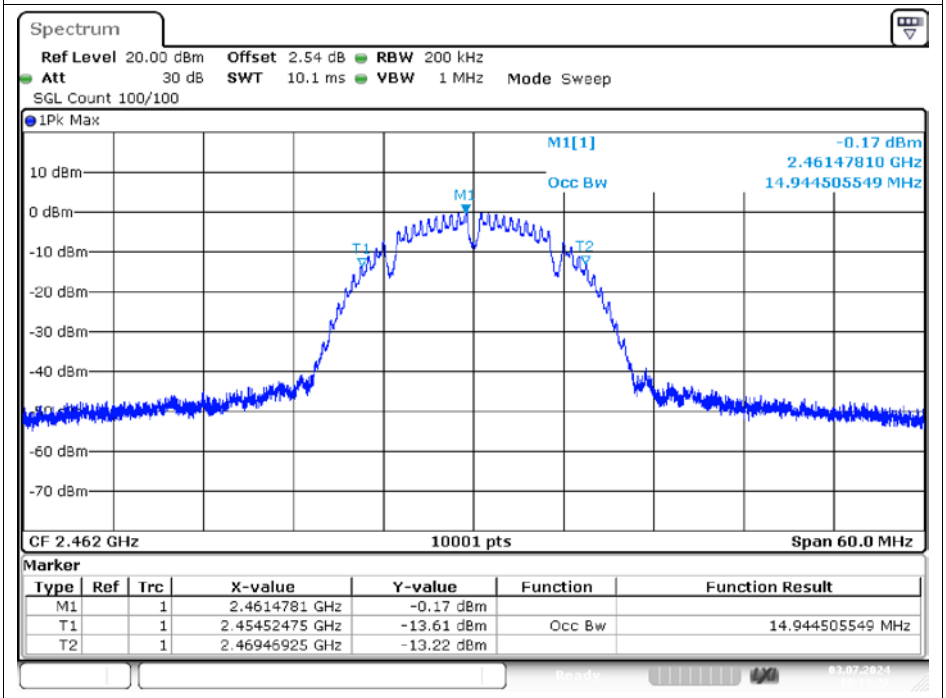
Date: 3.JUL.2024 10:17:34

OBW NVNT b 2437MHz Ant1



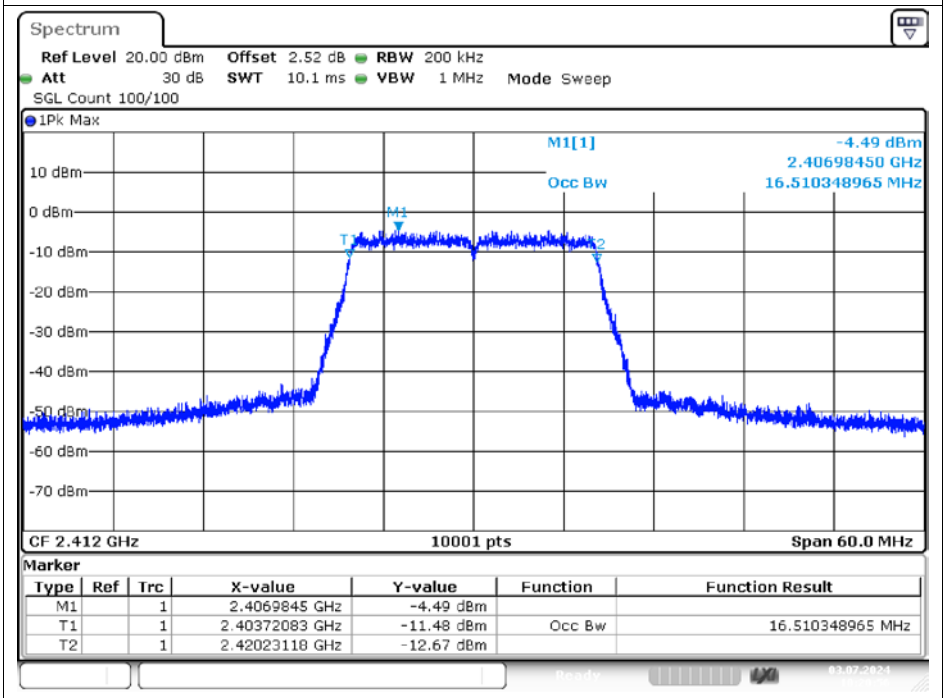
Date: 3.JUL.2024 10:16:04

OBW NVNT b 2462MHz Ant1



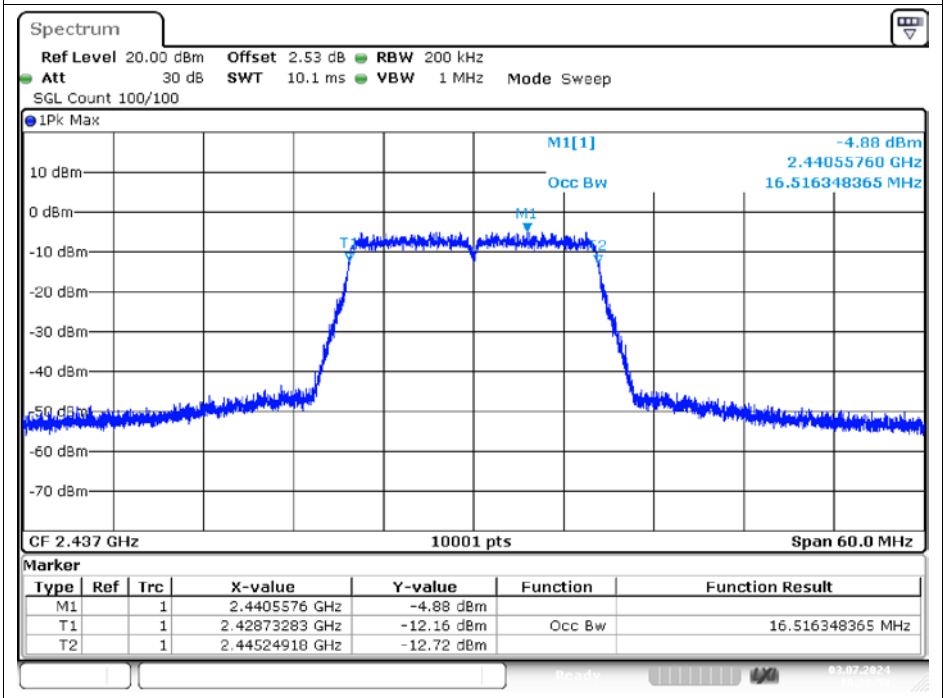
Date: 3.JUL.2024 10:13:22

OBW NVNT g 2412MHz Ant1



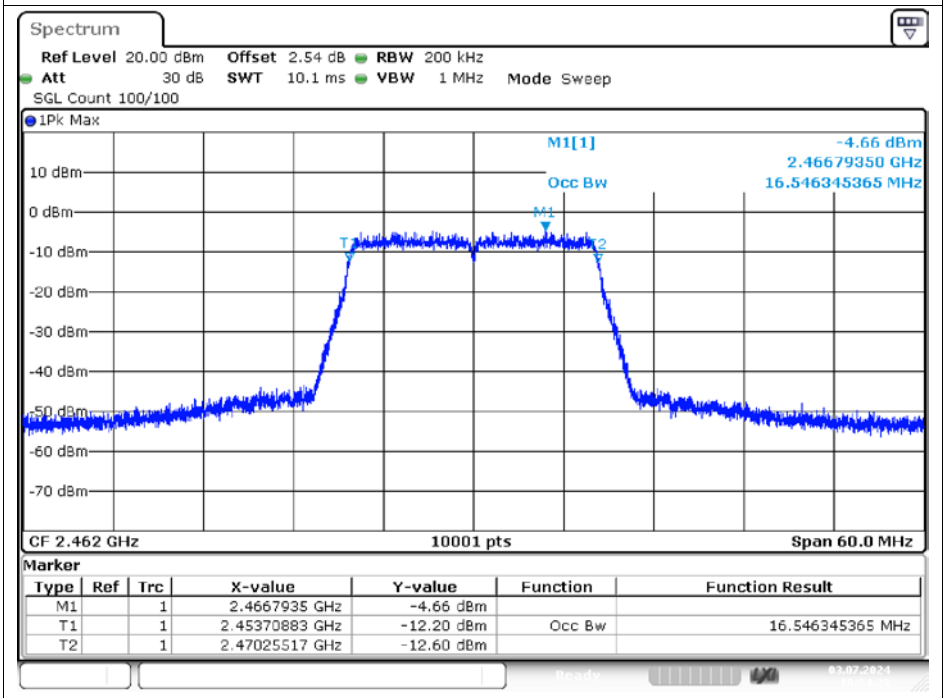
Date: 3.JUL.2024 10:20:55

OBW NVNT g 2437MHz Ant1



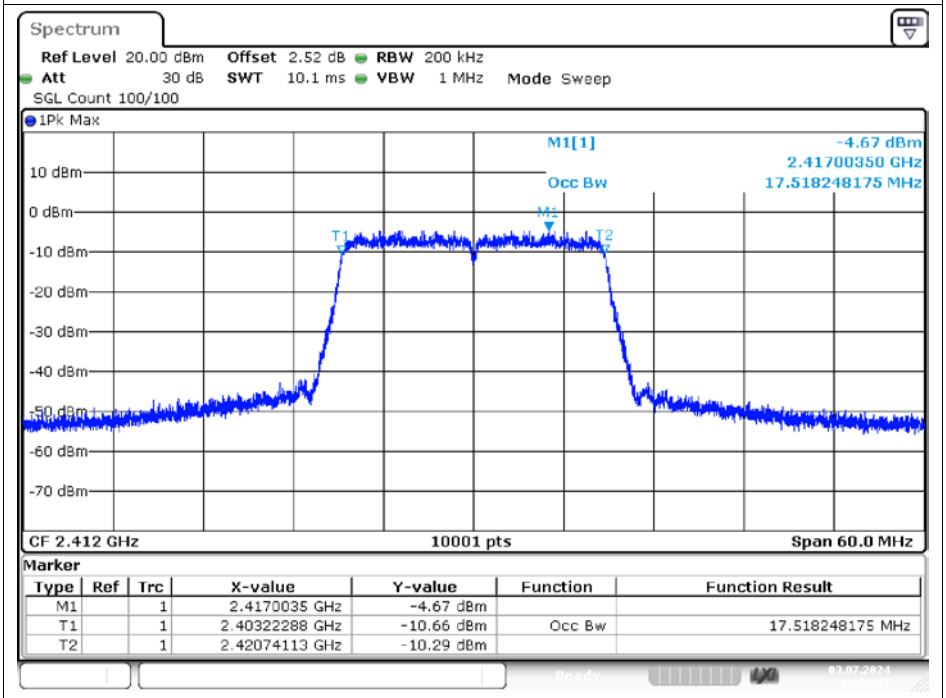
Date: 3.JUL.2024 10:22:54

OBW NVNT g 2462MHz Ant1



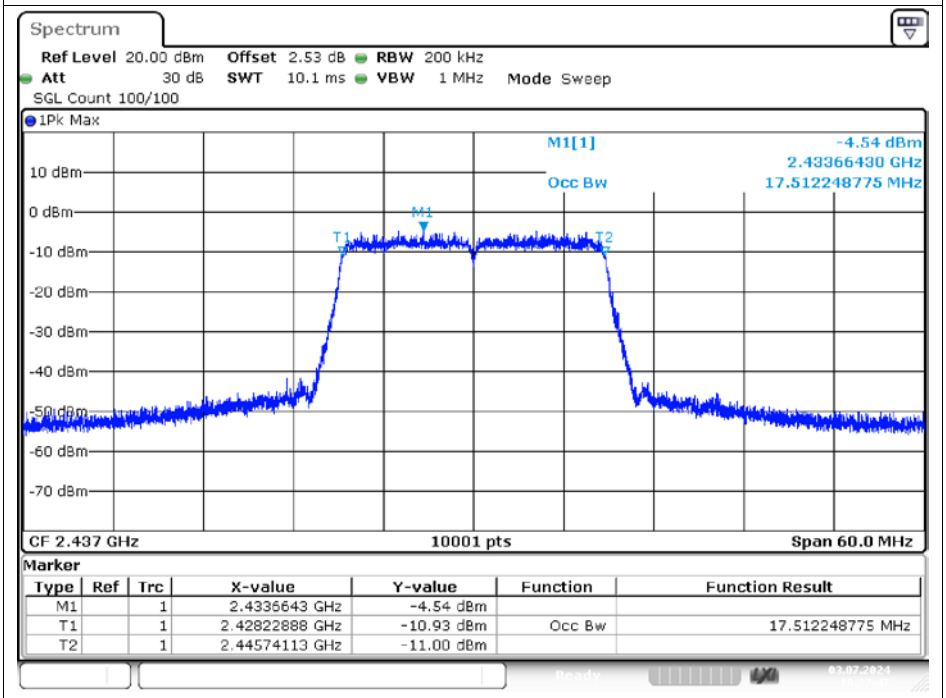
Date: 3.JUL.2024 10:24:23

OBW NVNT n20 2412MHz Ant1



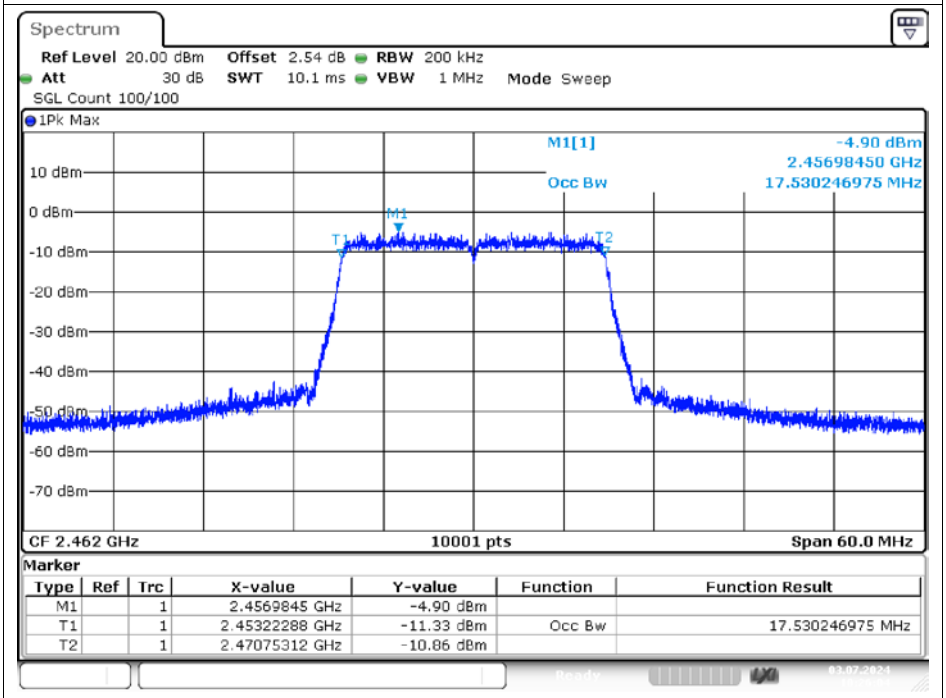
Date: 3.JUL.2024 10:30:18

OBW NVNT n20 2437MHz Ant1



Date: 3.JUL.2024 10:27:48

OBW NVNT n20 2462MHz Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4569845 GHz	-4.90 dBm		
T1		1	2.45322288 GHz	-11.33 dBm	Occ Bw	17.530246975 MHz
T2		1	2.47075312 GHz	-10.86 dBm		

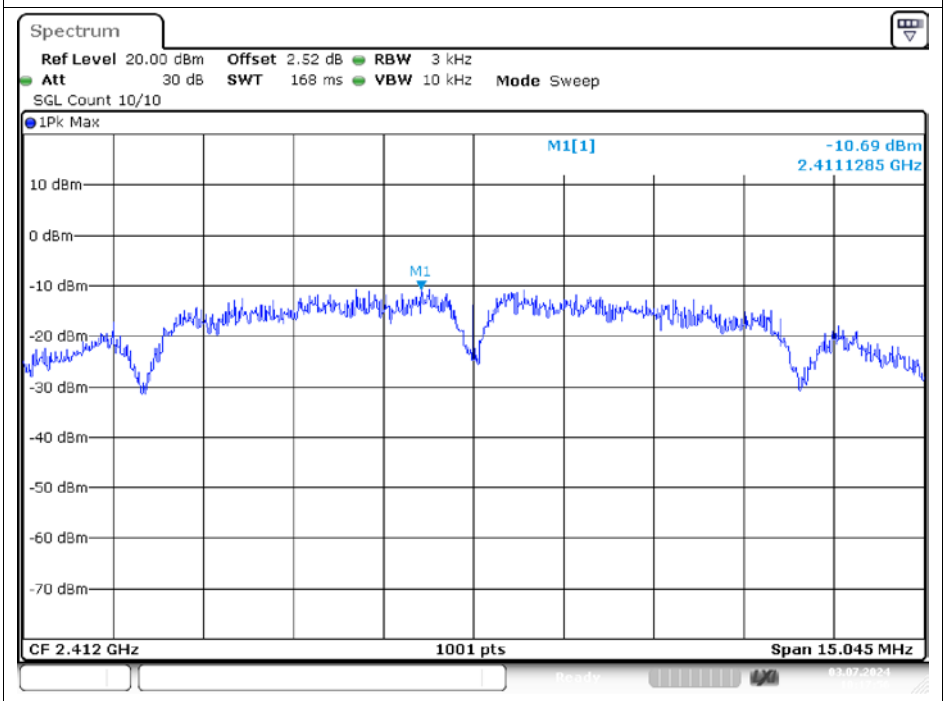
Date: 3.JUL.2024 10:26:04

Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-10.69	0	-10.69	8	Pass
NVNT	b	2437	Ant1	-10.39	0	-10.39	8	Pass
NVNT	b	2462	Ant1	-11.09	0	-11.09	8	Pass
NVNT	g	2412	Ant1	-19.71	0	-19.71	8	Pass
NVNT	g	2437	Ant1	-20.34	0	-20.34	8	Pass
NVNT	g	2462	Ant1	-20.5	0	-20.5	8	Pass
NVNT	n20	2412	Ant1	-20.23	0	-20.23	8	Pass
NVNT	n20	2437	Ant1	-20.73	0	-20.73	8	Pass
NVNT	n20	2462	Ant1	-19.83	0	-19.83	8	Pass

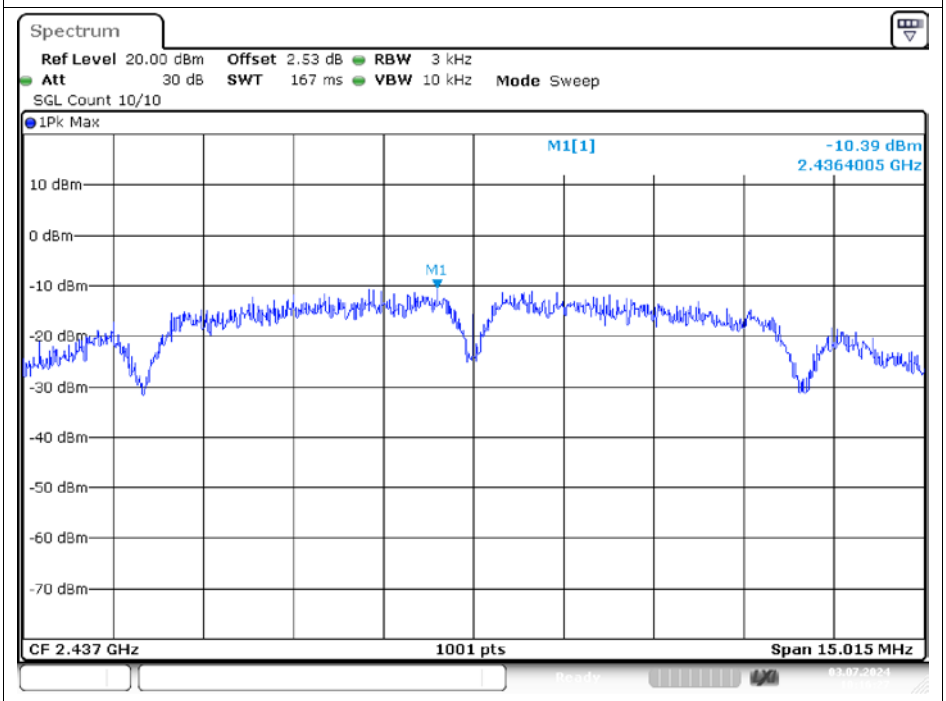
Test Graphs

PSD NVNT b 2412MHz Ant1



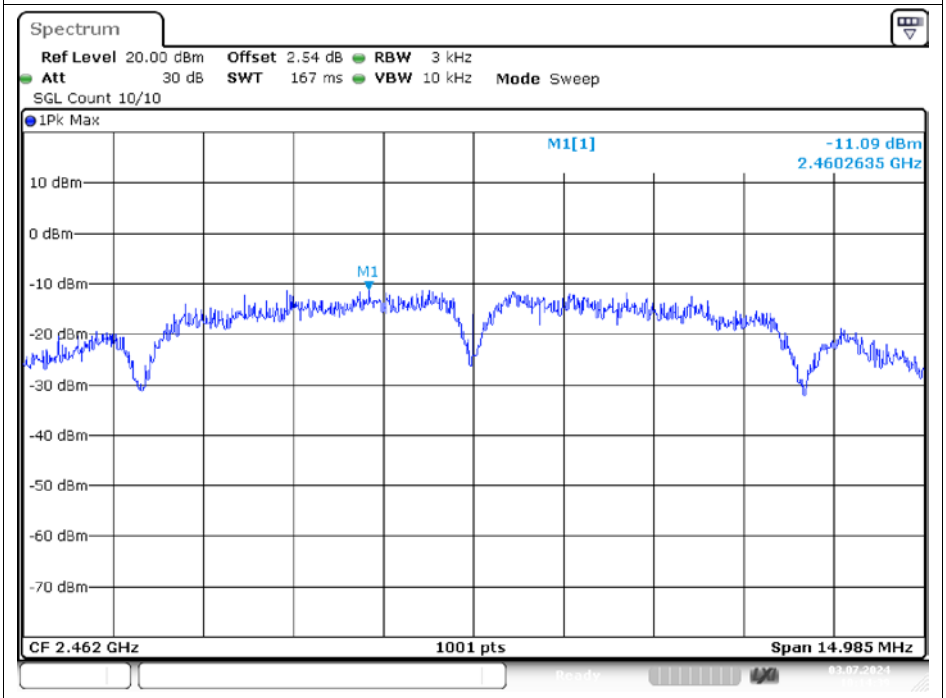
Date: 3.JUL.2024 10:17:56

PSD NVNT b 2437MHz Ant1



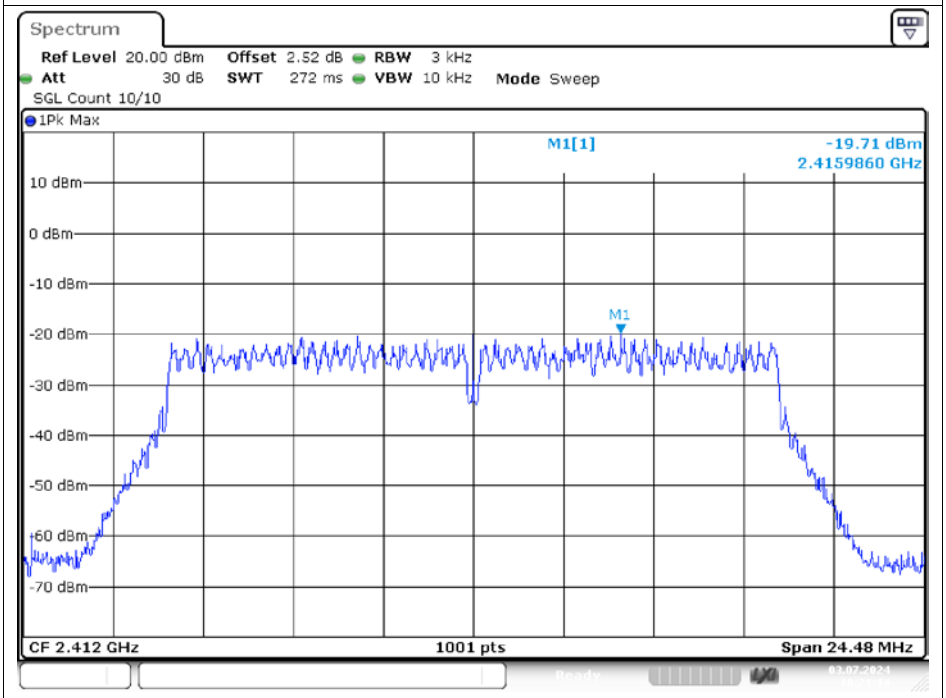
Date: 3.JUL.2024 10:16:27

PSD NVNT b 2462MHz Ant1



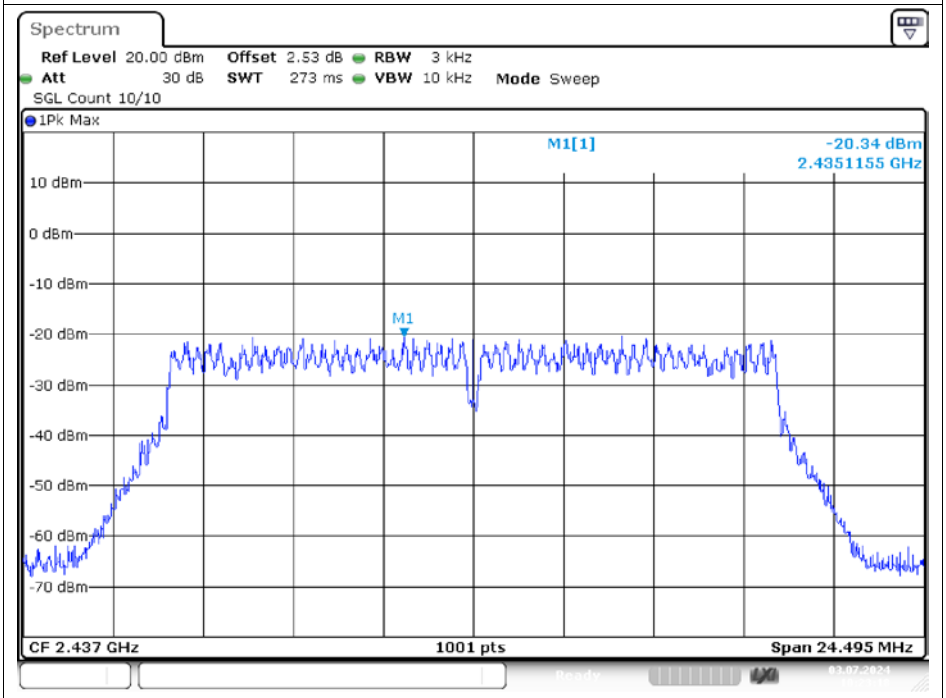
Date: 3.JUL.2024 10:14:39

PSD NVNT g 2412MHz Ant1



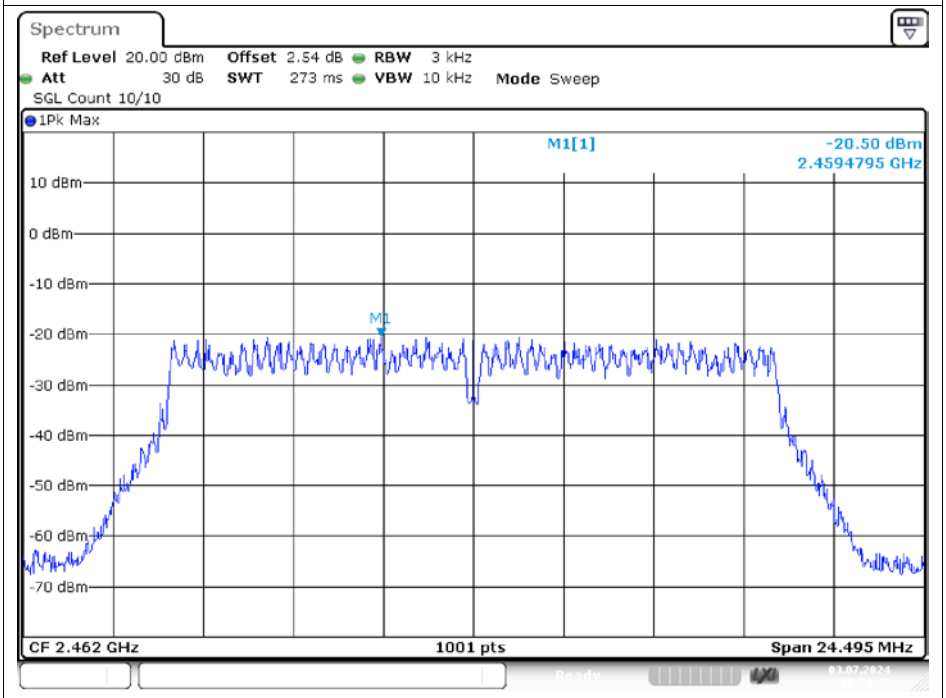
Date: 3.JUL.2024 10:21:14

PSD NVNT g 2437MHz Ant1



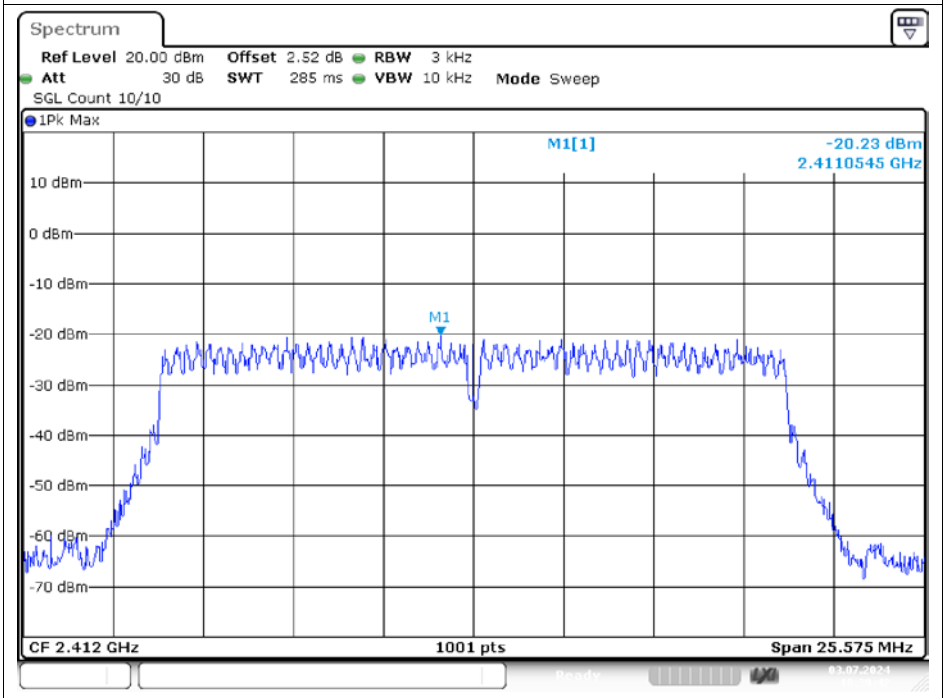
Date: 3.JUL.2024 10:23:18

PSD NVNT g 2462MHz Ant1



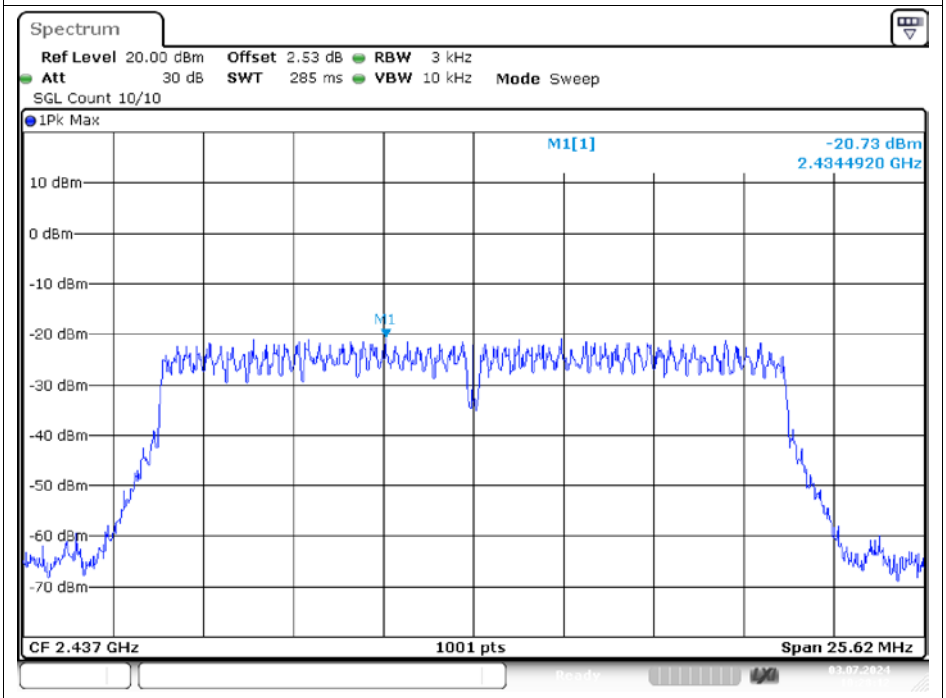
Date: 3.JUL.2024 10:24:48

PSD NVNT n20 2412MHz Ant1



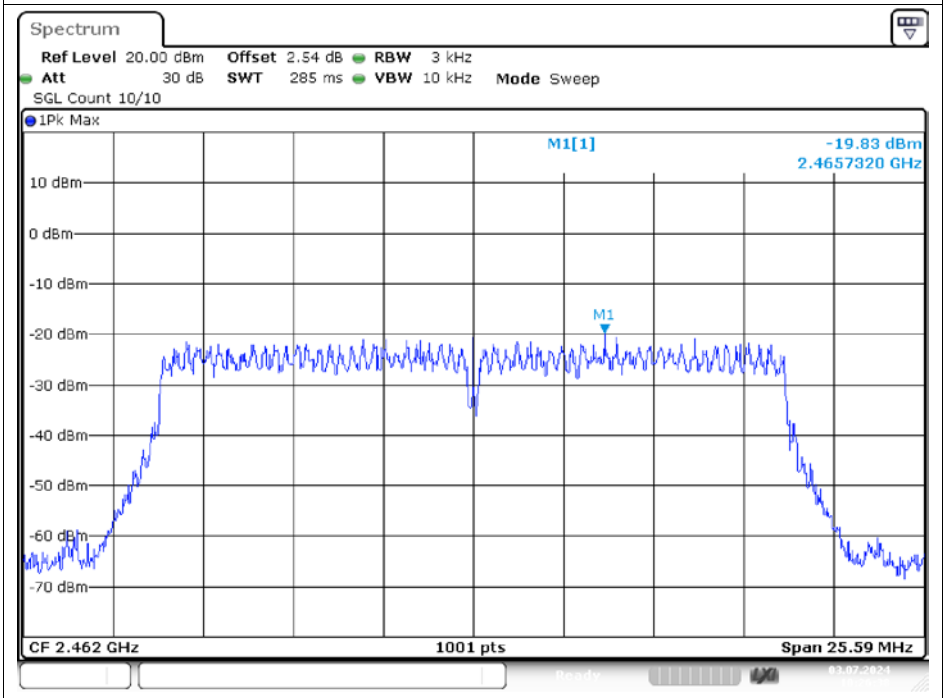
Date: 3.JUL.2024 10:30:42

PSD NVNT n20 2437MHz Ant1



Date: 3.JUL.2024 10:28:13

PSD NVNT n20 2462MHz Ant1

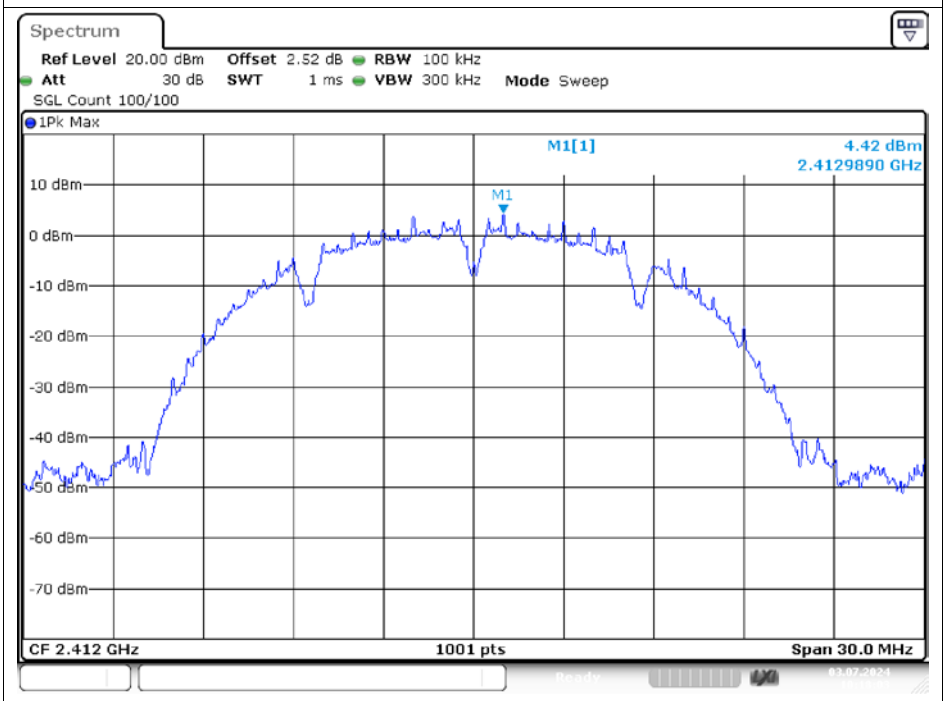


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.44	-20	Pass
NVNT	b	2462	Ant1	-53.28	-20	Pass
NVNT	g	2412	Ant1	-40.4	-20	Pass
NVNT	g	2462	Ant1	-47.27	-20	Pass
NVNT	n20	2412	Ant1	-41.95	-20	Pass
NVNT	n20	2462	Ant1	-46.29	-20	Pass

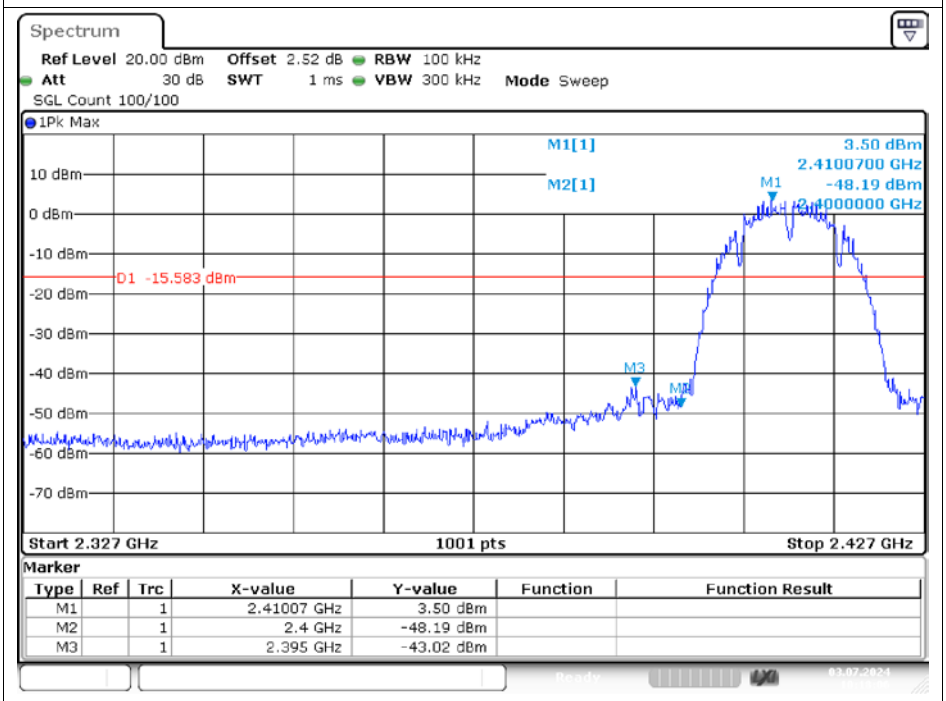
Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Date: 3.JUL.2024 10:18:03

Band Edge NVNT b 2412MHz Ant1 Emission

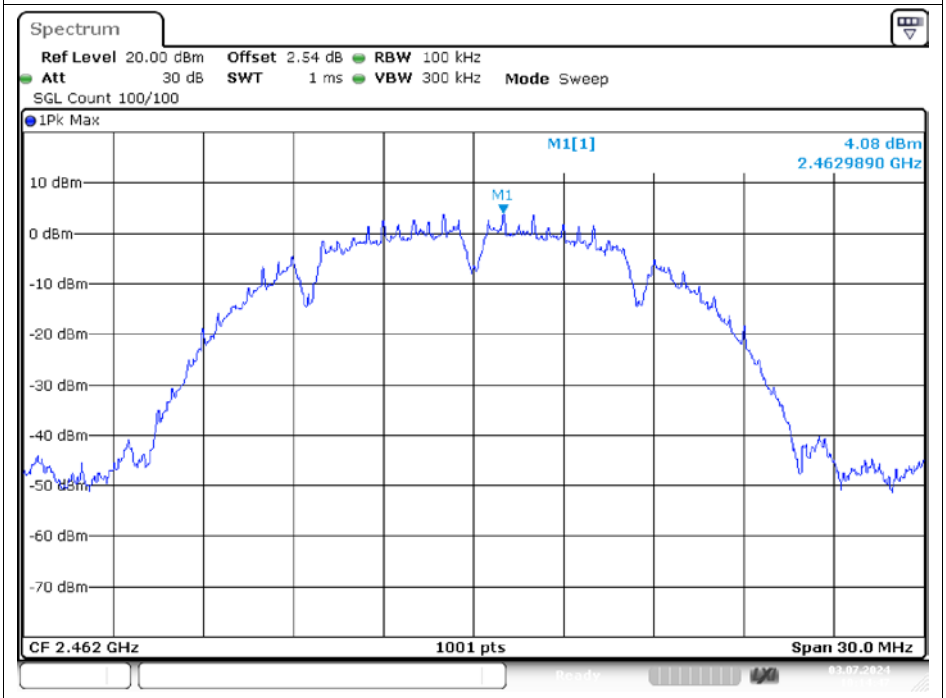


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41007 GHz	3.50 dBm		
M2		1	2.4 GHz	-48.19 dBm		
M3		1	2.395 GHz	-43.02 dBm		

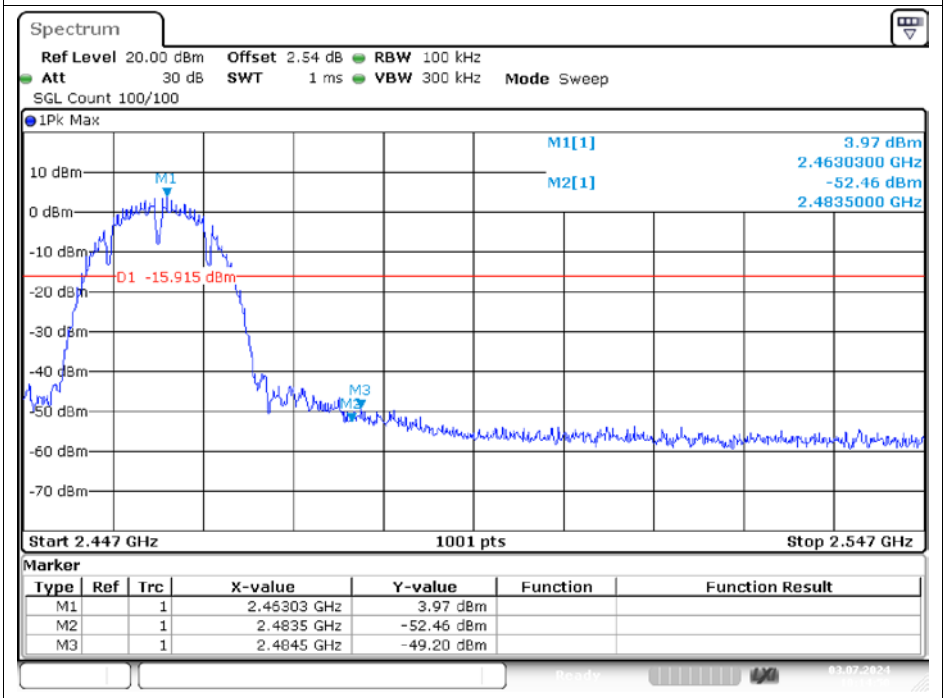
Date: 3.JUL.2024 10:18:06

Band Edge NVNT b 2462MHz Ant1 Ref



Date: 3.JUL.2024 10:14:46

Band Edge NVNT b 2462MHz Ant1 Emission

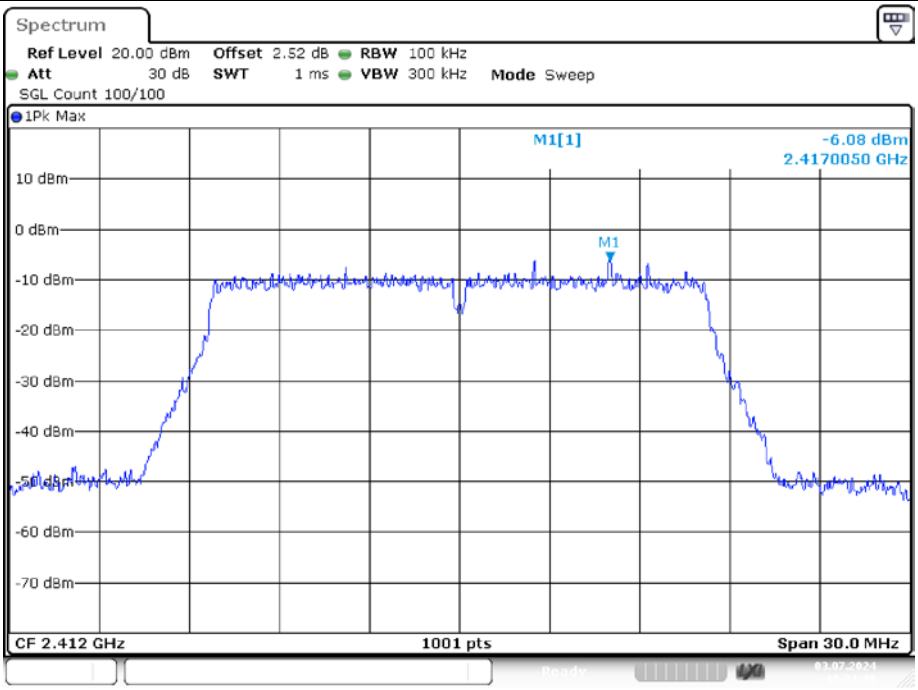


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46303 GHz	3.97 dBm		
M2		1	2.4835 GHz	-52.46 dBm		
M3		1	2.4845 GHz	-49.20 dBm		

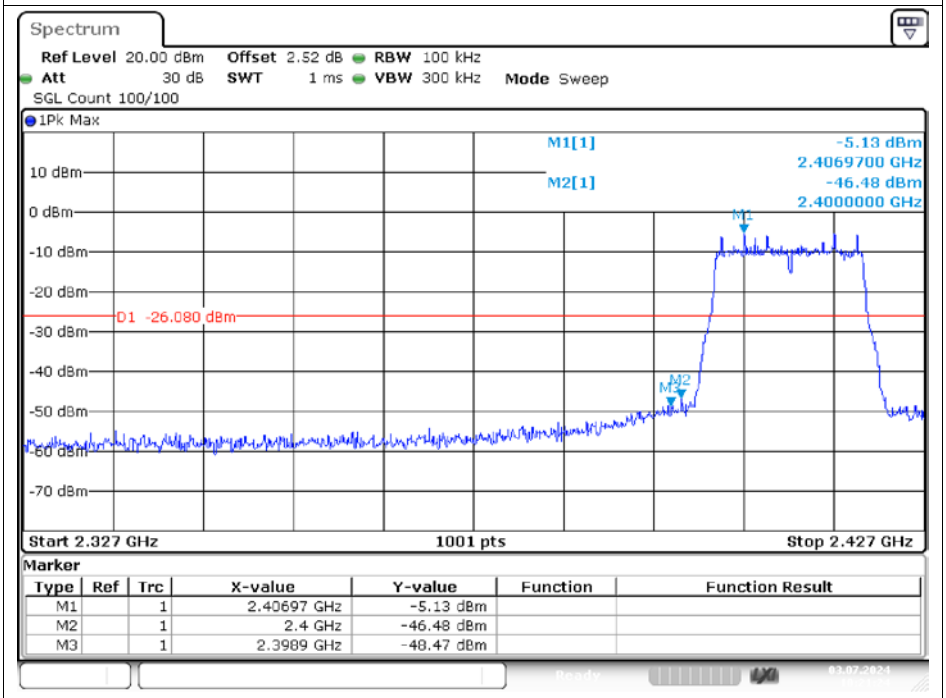
Date: 3.JUL.2024 10:14:50

Band Edge NVNT g 2412MHz Ant1 Ref



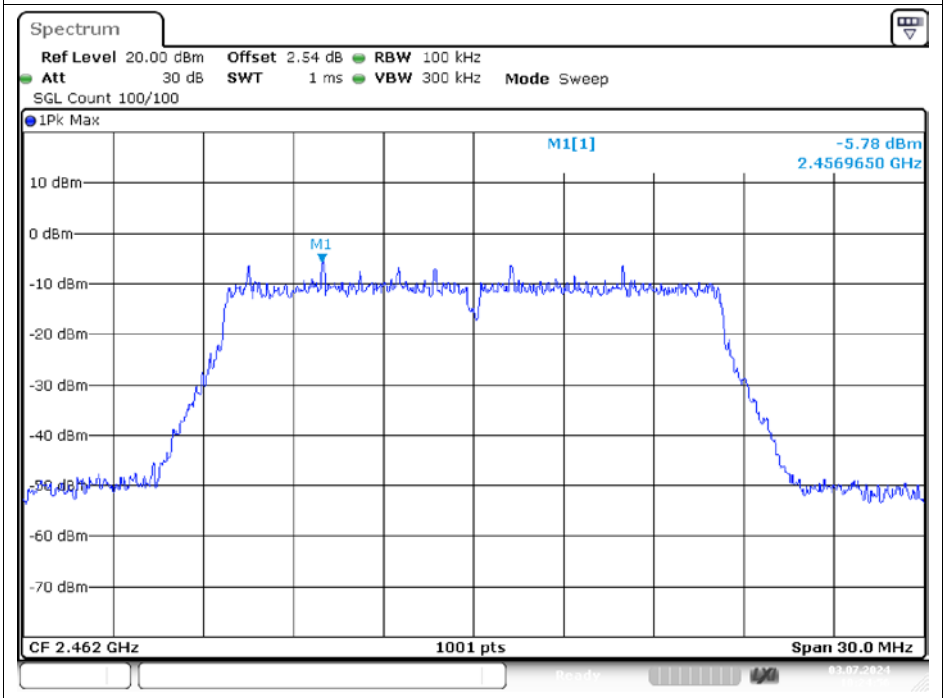
Date: 3.JUL.2024 10:21:20

Band Edge NVNT g 2412MHz Ant1 Emission



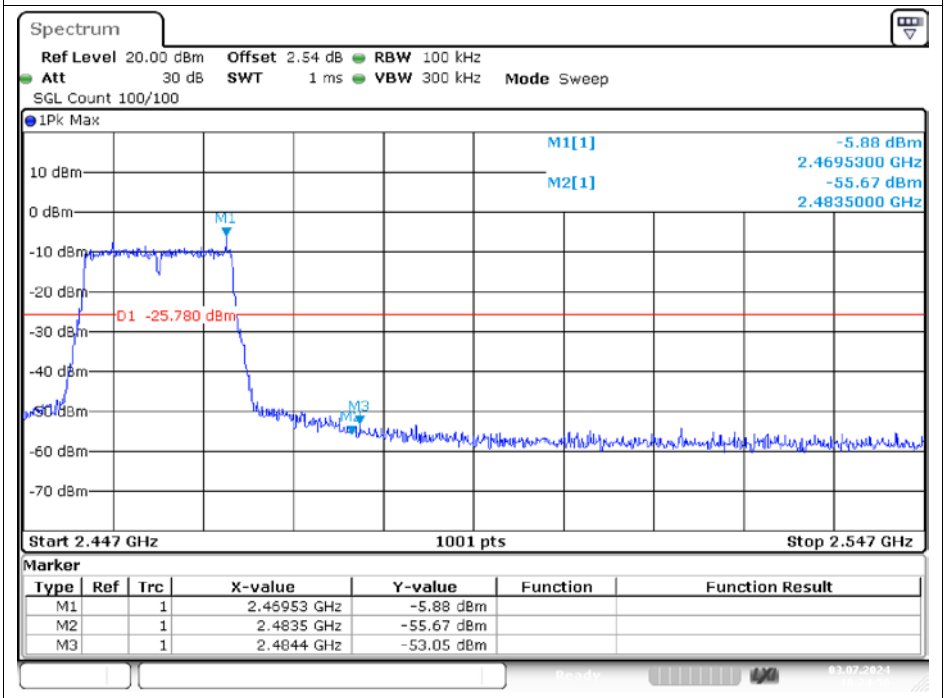
Date: 3.JUL.2024 10:21:24

Band Edge NVNT g 2462MHz Ant1 Ref



Date: 3.JUL.2024 10:24:55

Band Edge NVNT g 2462MHz Ant1 Emission

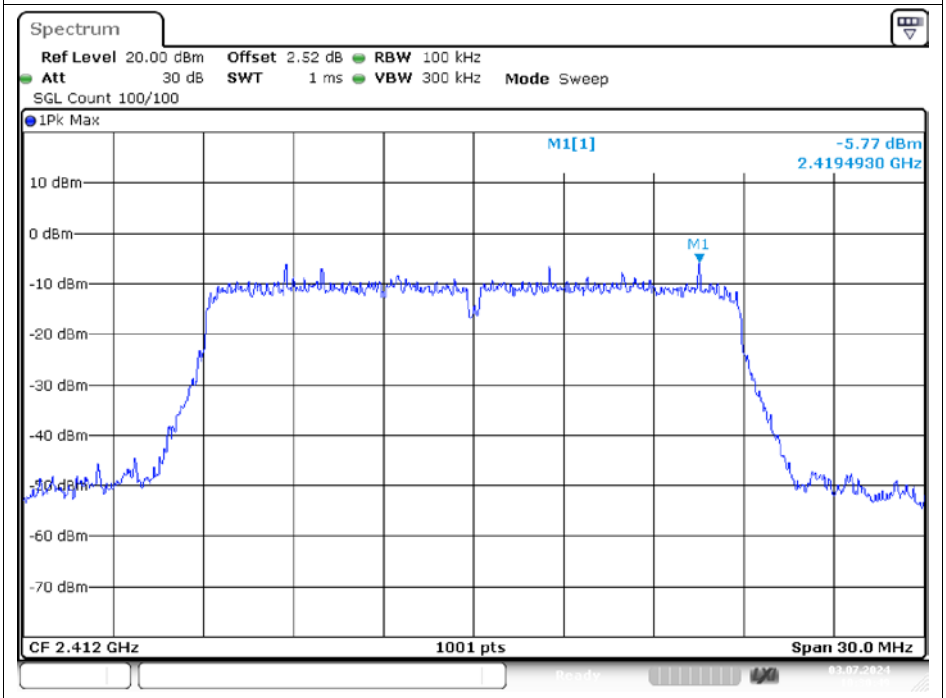


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46953 GHz	-5.88 dBm		
M2		1	2.4835 GHz	-55.67 dBm		
M3		1	2.4844 GHz	-53.05 dBm		

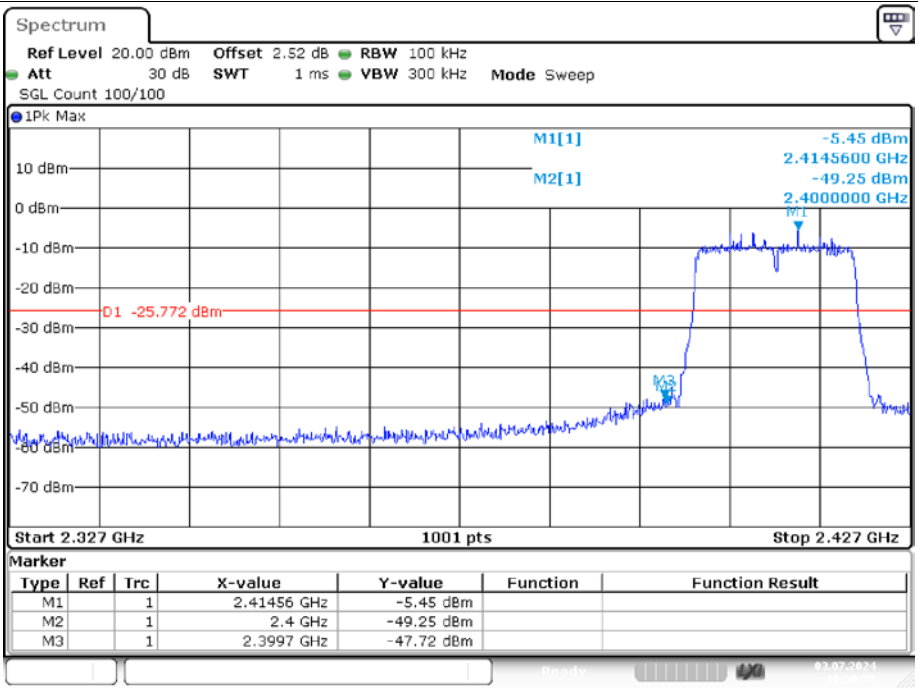
Date: 3.JUL.2024 10:24:58

Band Edge NVNT n20 2412MHz Ant1 Ref



Date: 3.JUL.2024 10:30:48

Band Edge NVNT n20 2412MHz Ant1 Emission

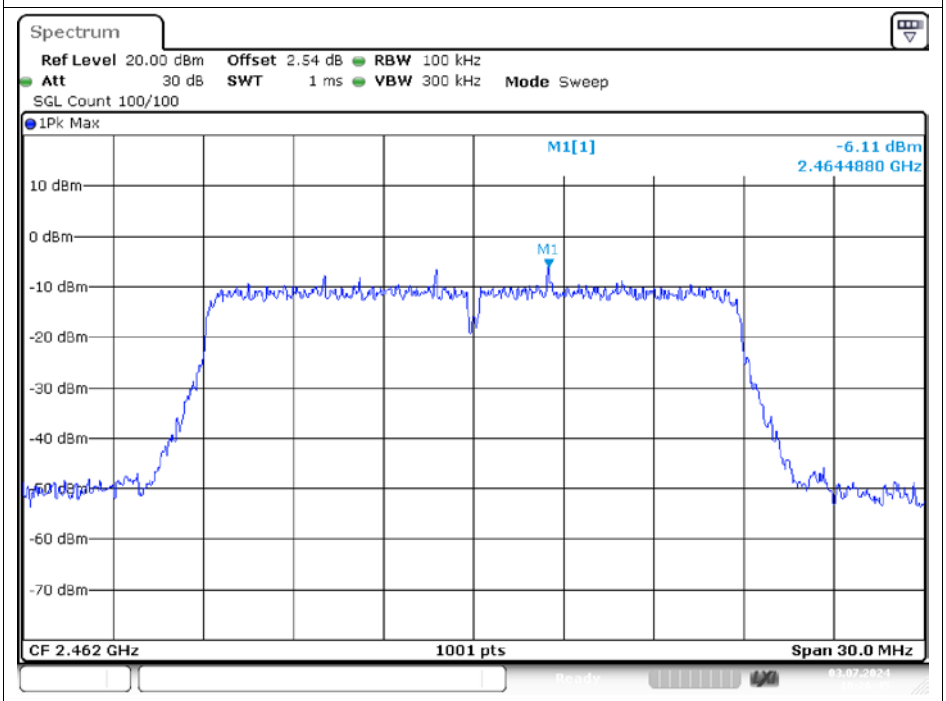


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41456 GHz	-5.45 dBm		
M2		1	2.4 GHz	-49.25 dBm		
M3		1	2.3997 GHz	-47.72 dBm		

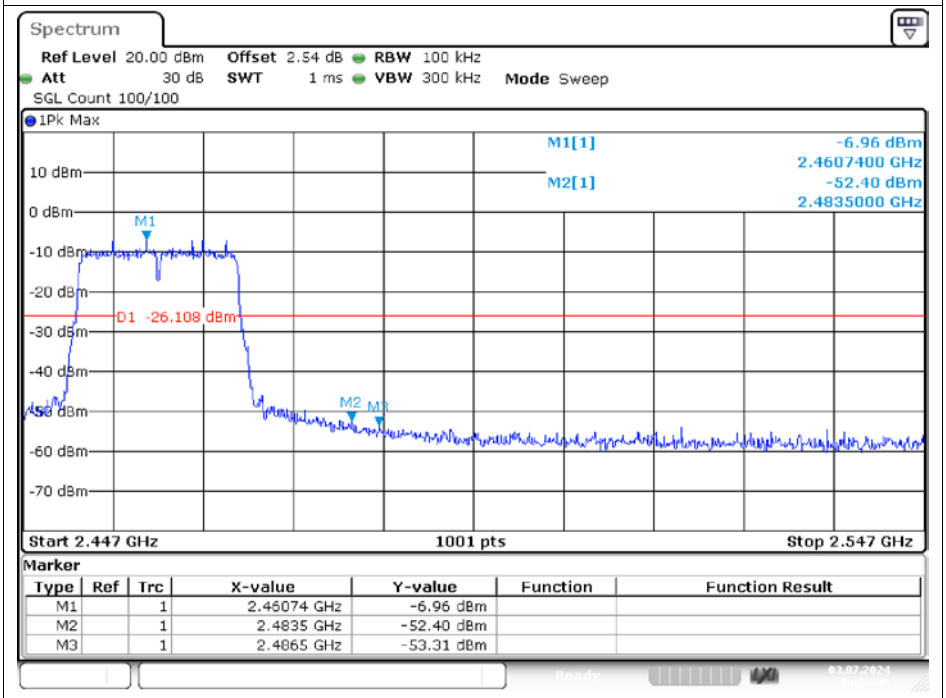
Date: 3.JUL.2024 10:30:52

Band Edge NVNT n20 2462MHz Ant1 Ref



Date: 3.JUL.2024 10:26:45

Band Edge NVNT n20 2462MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46074 GHz	-6.96 dBm		
M2		1	2.4835 GHz	-52.40 dBm		
M3		1	2.4865 GHz	-53.31 dBm		

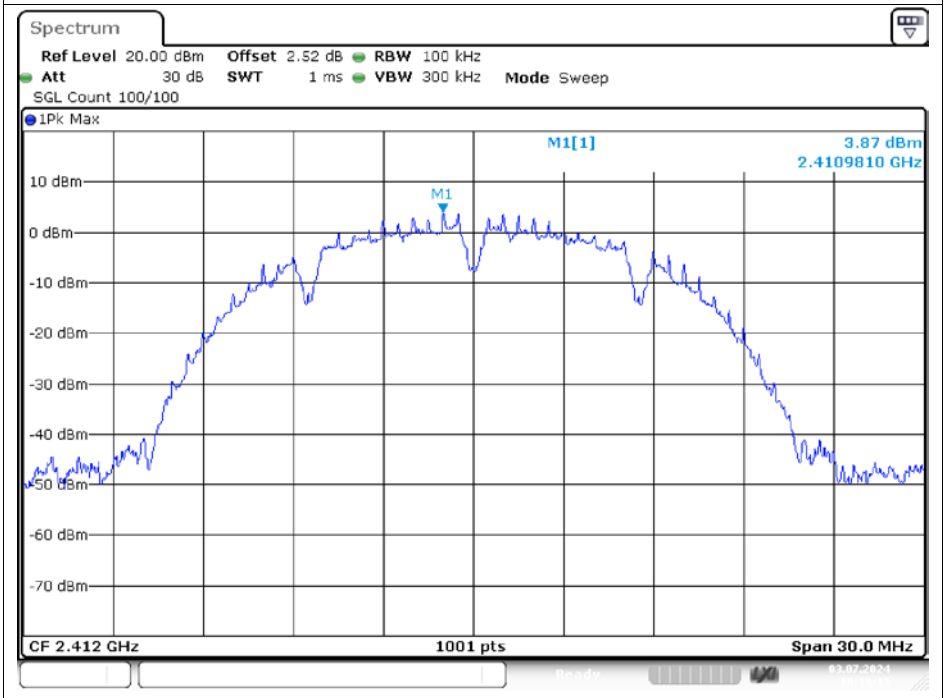
Date: 3.JUL.2024 10:26:47

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.46	-20	Pass
NVNT	b	2437	Ant1	-52.04	-20	Pass
NVNT	b	2462	Ant1	-51.08	-20	Pass
NVNT	g	2412	Ant1	-43.92	-20	Pass
NVNT	g	2437	Ant1	-43.36	-20	Pass
NVNT	g	2462	Ant1	-43.75	-20	Pass
NVNT	n20	2412	Ant1	-45.15	-20	Pass
NVNT	n20	2437	Ant1	-43.63	-20	Pass
NVNT	n20	2462	Ant1	-44.38	-20	Pass

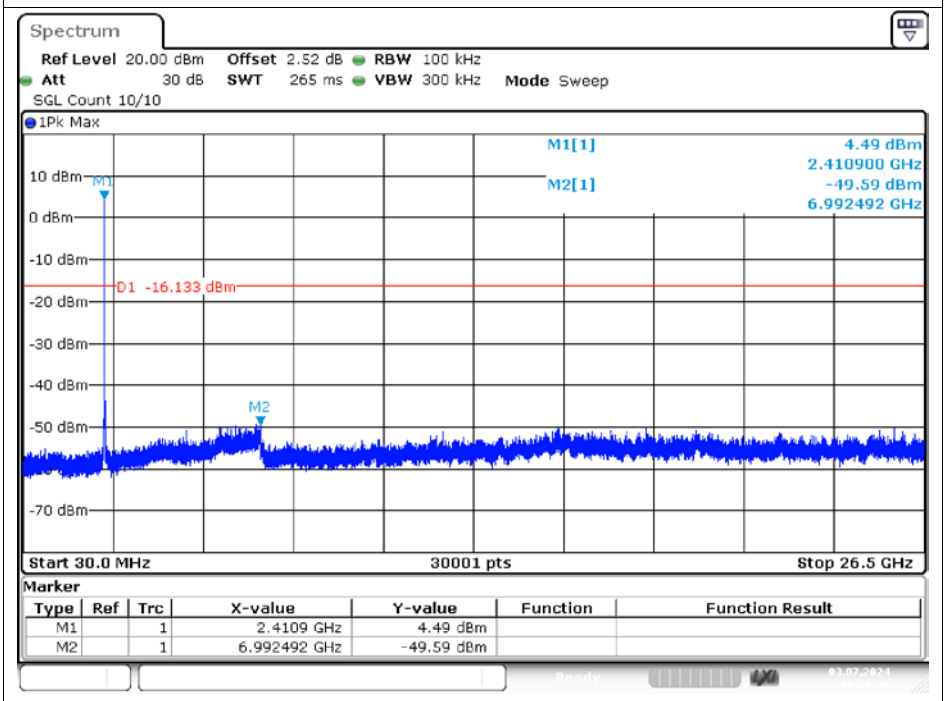
Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Date: 3.JUL.2024 10:18:13

Tx. Spurious NVNT b 2412MHz Ant1 Emission



Date: 3.JUL.2024 10:18:28

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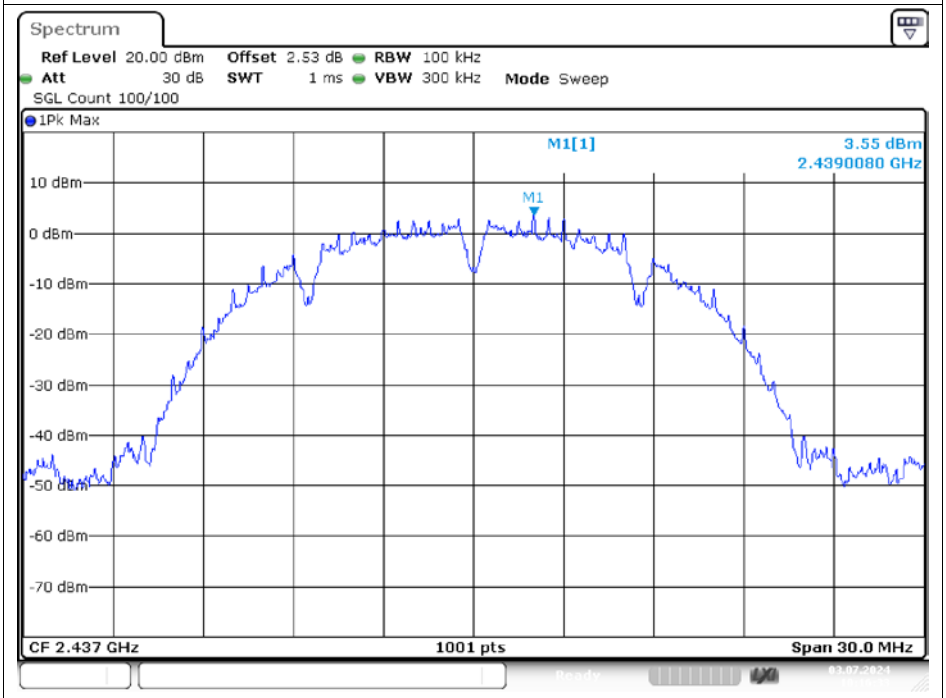

Date: 3.JUL.2024 10:16:33

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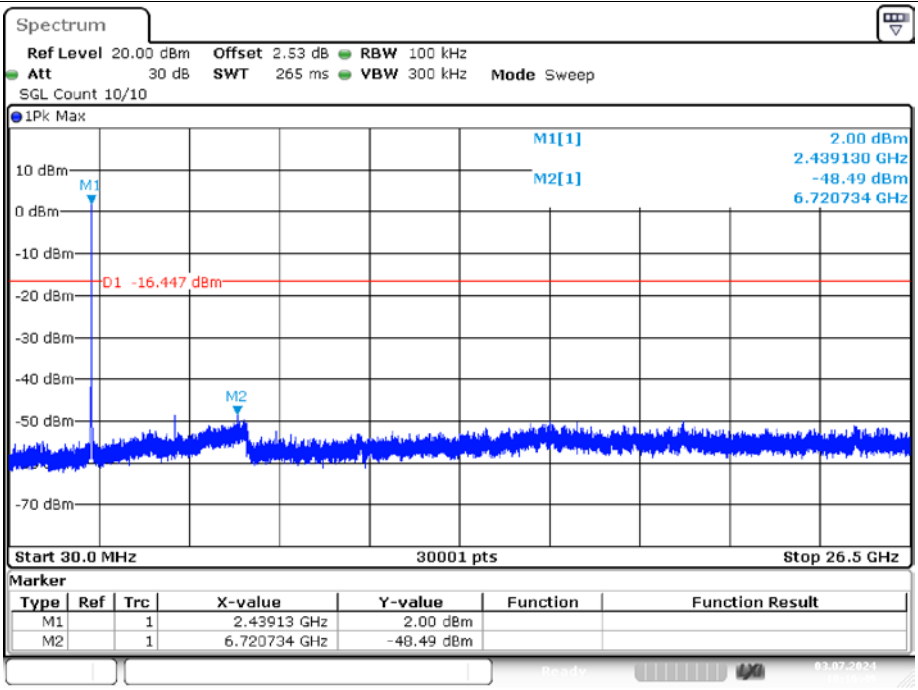

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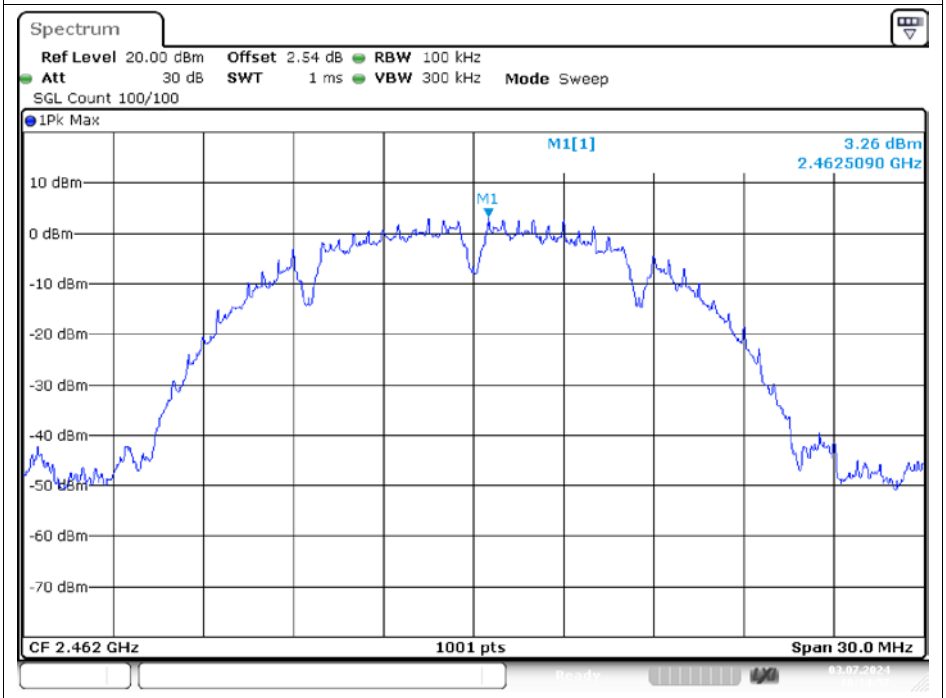
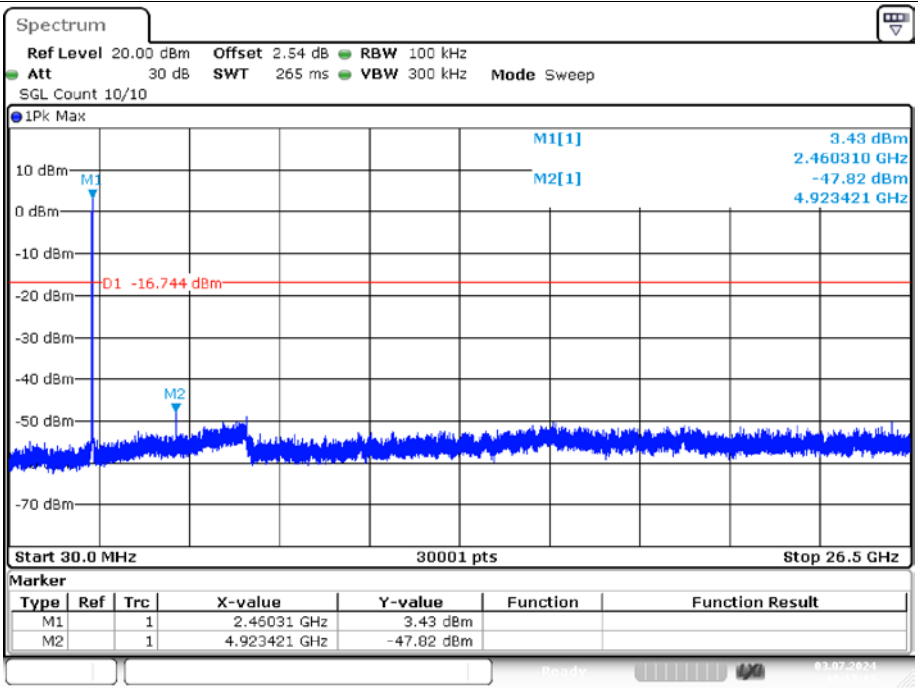


Date: 3.JUL.2024 10:14:58

Tx. Spurious NVNT b 2462MHz Ant1 Emission



Date: 3.JUL.2024 10:15:13

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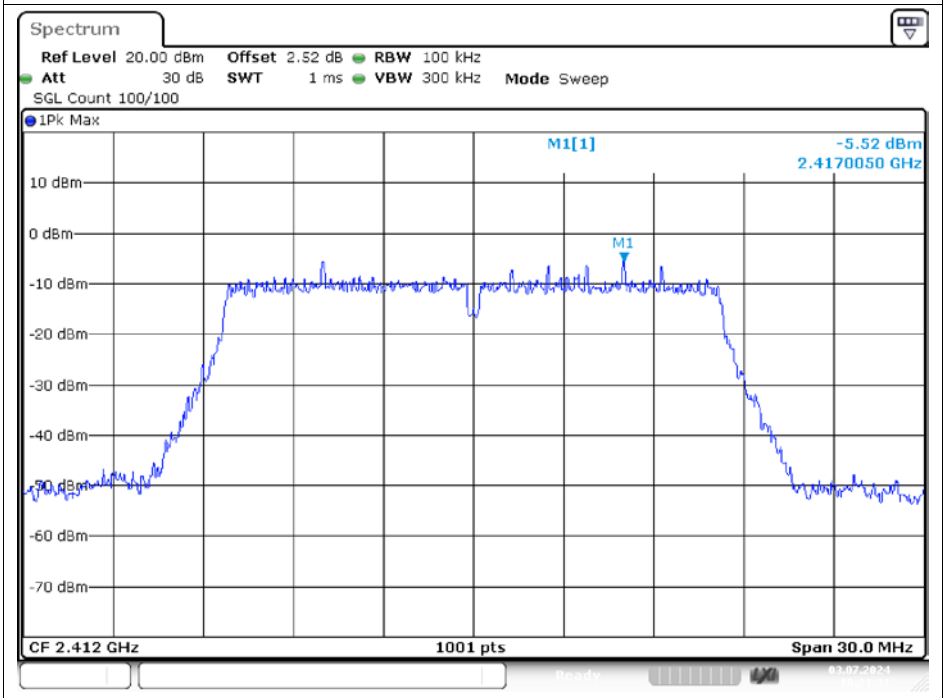

Date: 3.JUL.2024 10:21:31

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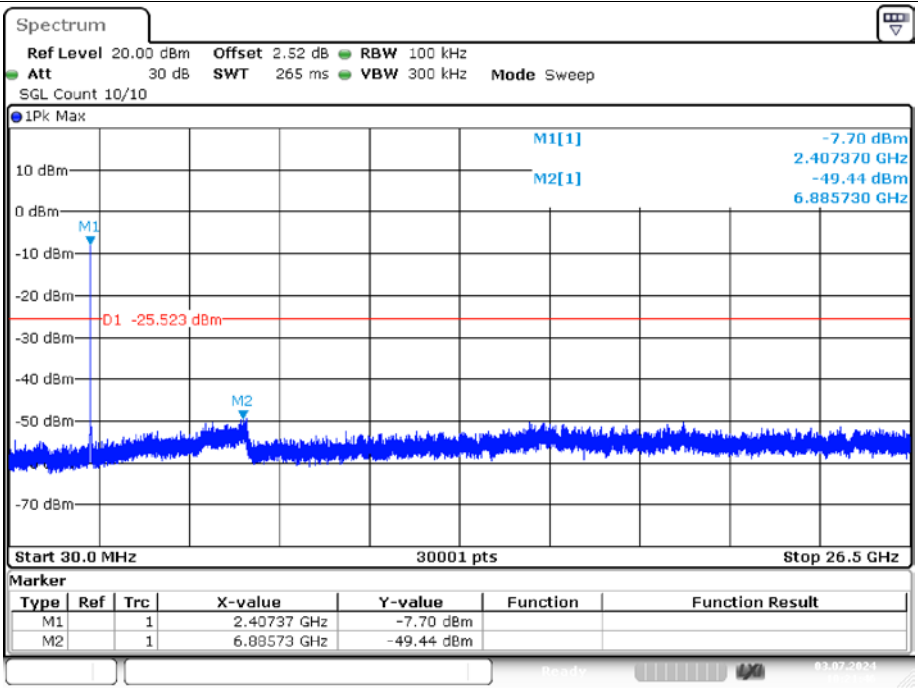

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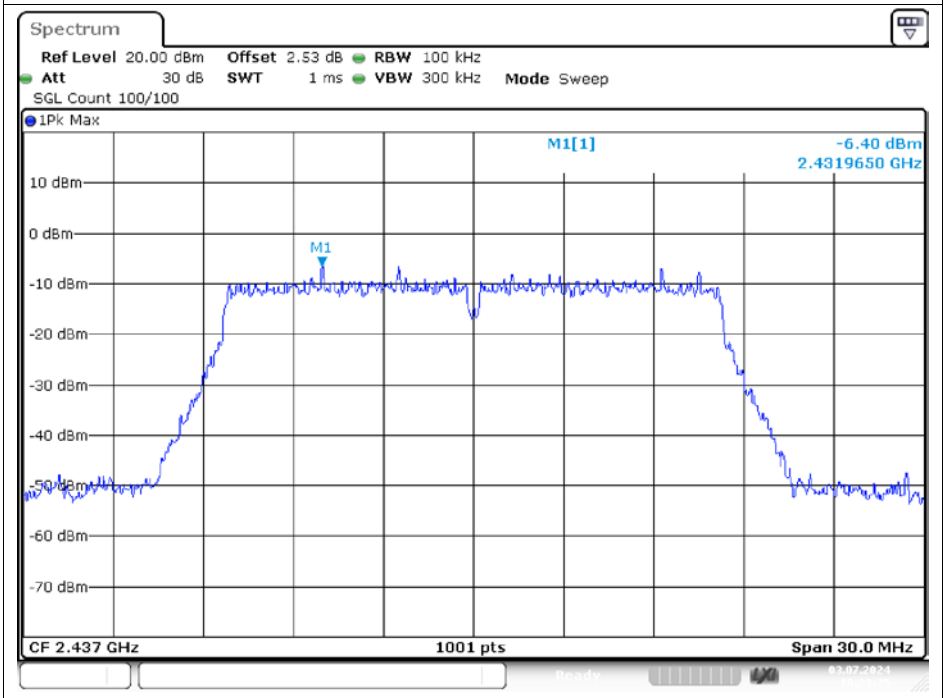

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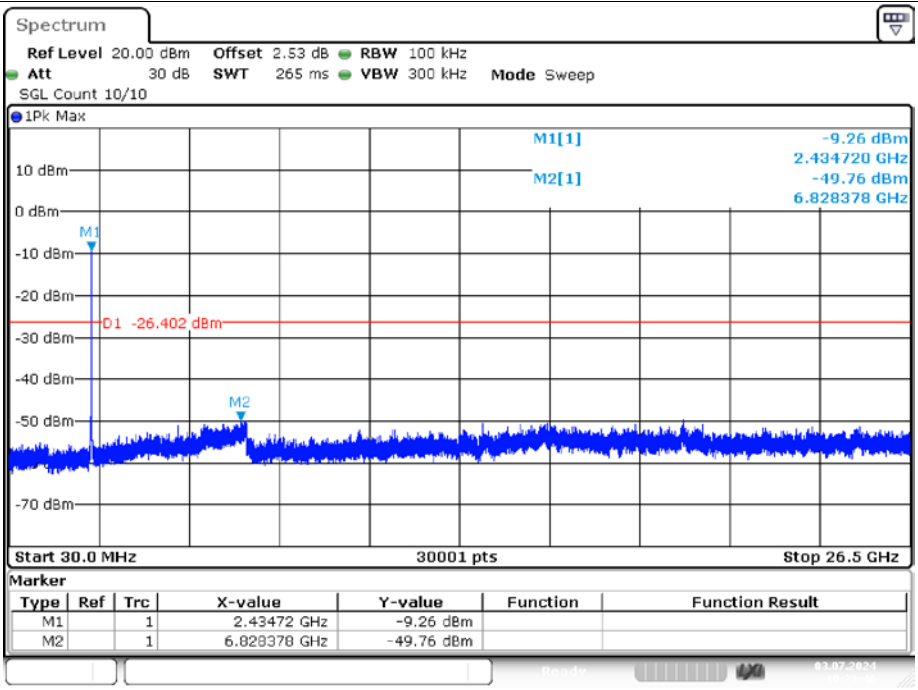

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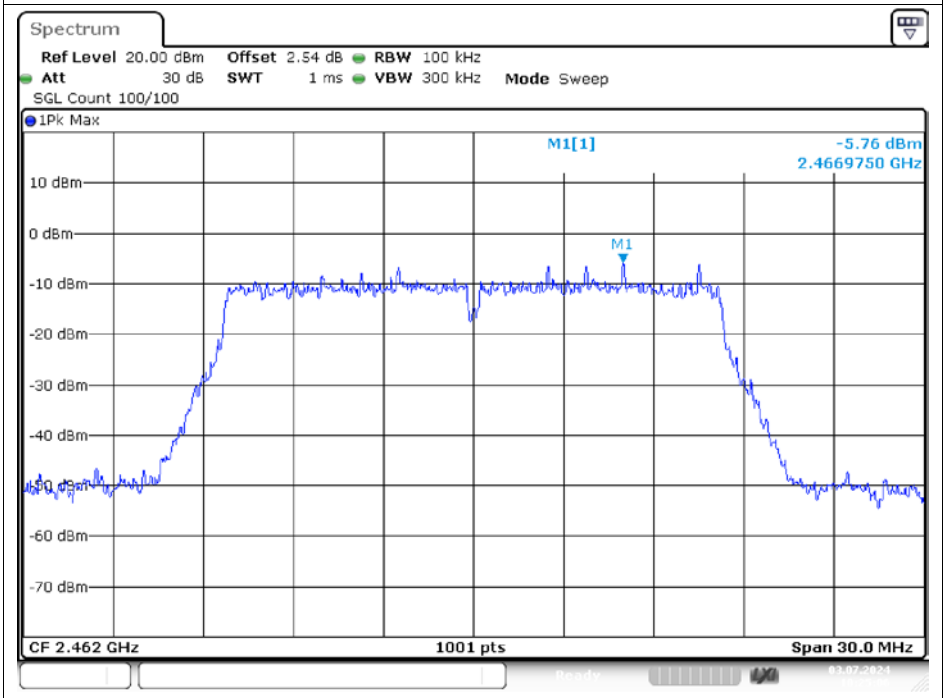

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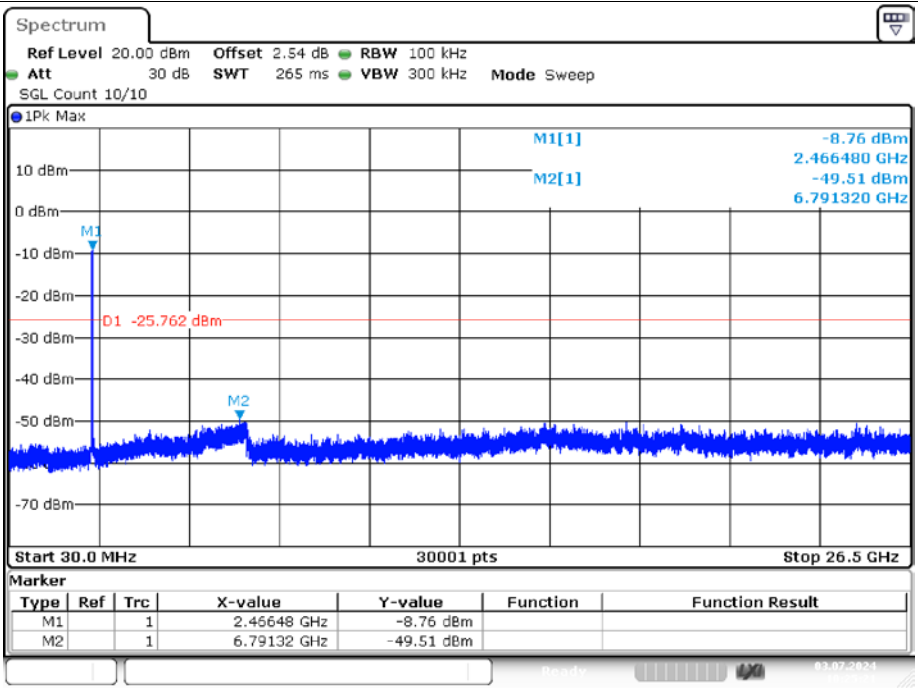
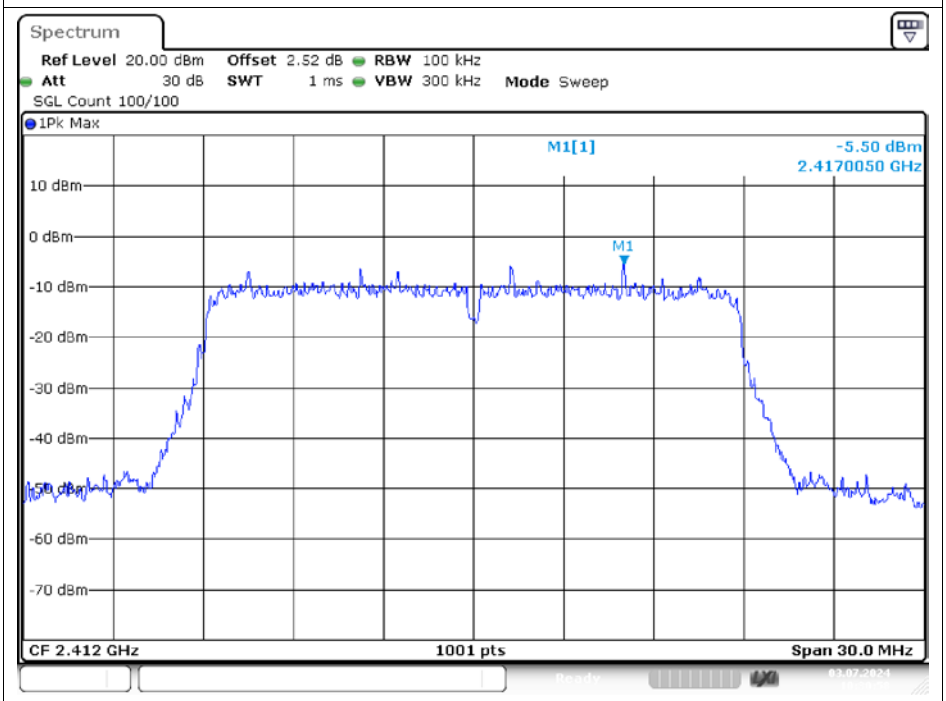


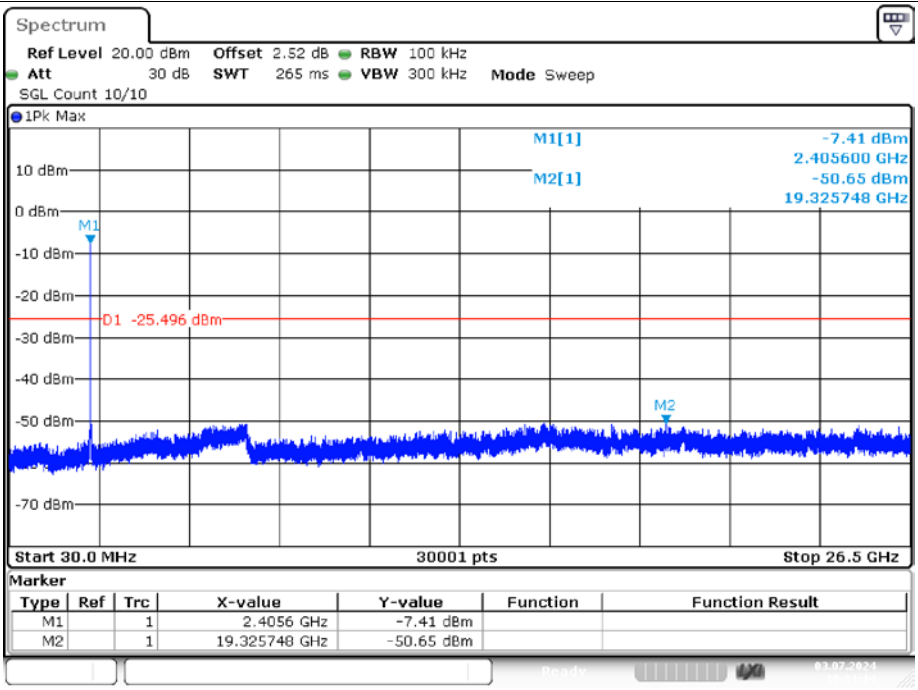
Date: 3.JUL.2024 10:25:21

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Date: 3.JUL.2024 10:30:58

Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Date: 3.JUL.2024 10:31:14

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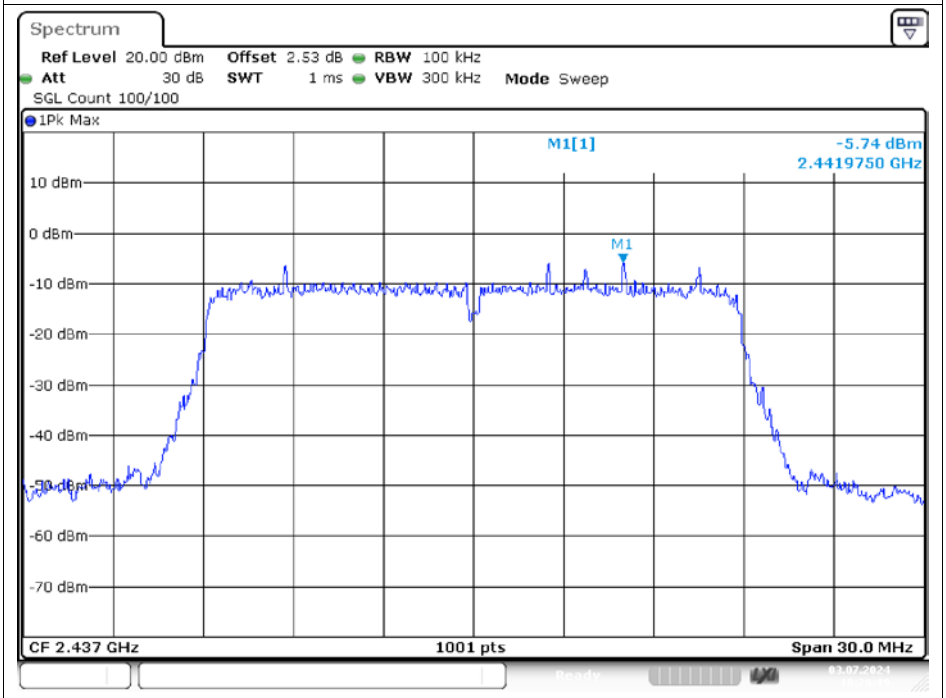

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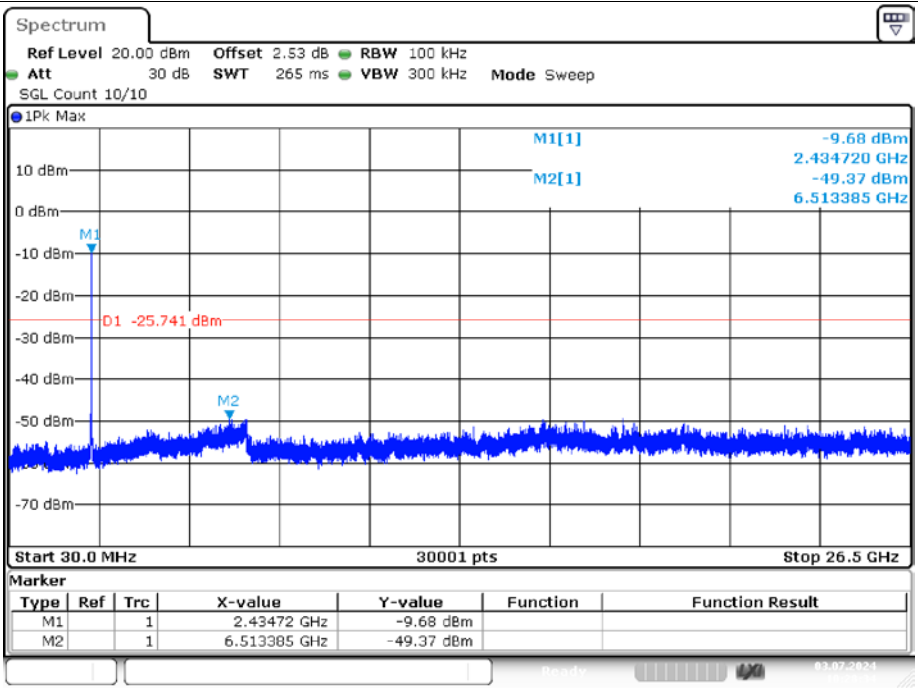

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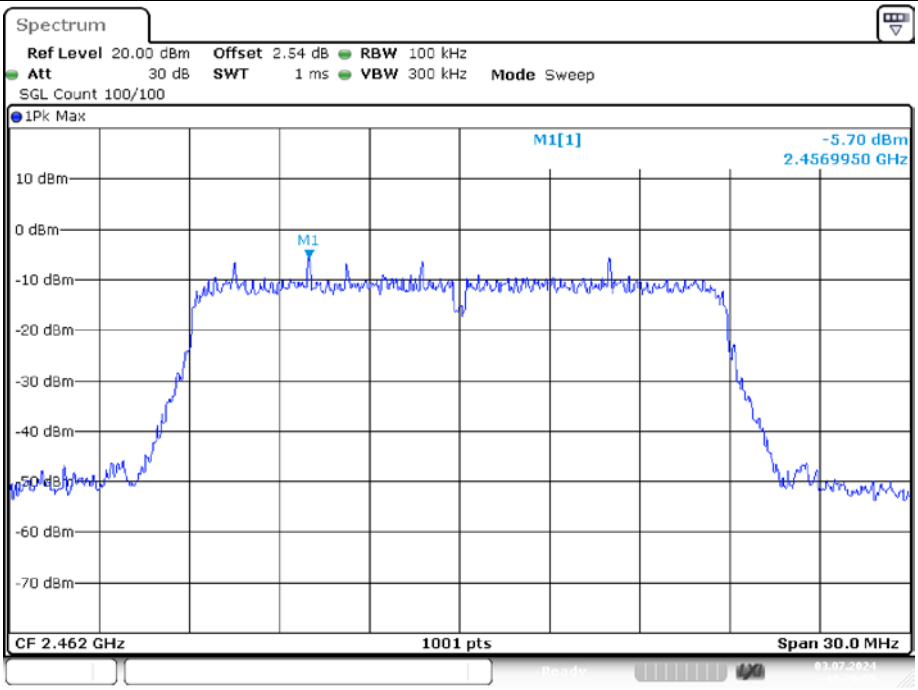

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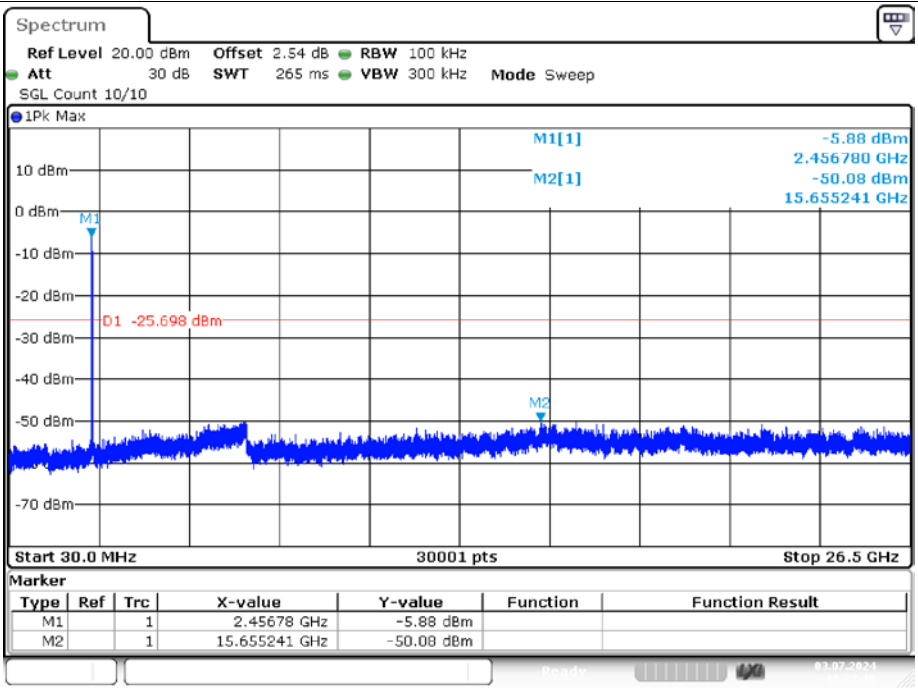

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