

FCC ID :2BNHV-NM-CYD

RF Test Data

Duty Cycle2

Maximum Average Conducted Output Power9

-6dB Bandwidth 16

Occupied Channel Bandwidth 23

Maximum Power Spectral Density Level 30

Band Edge37

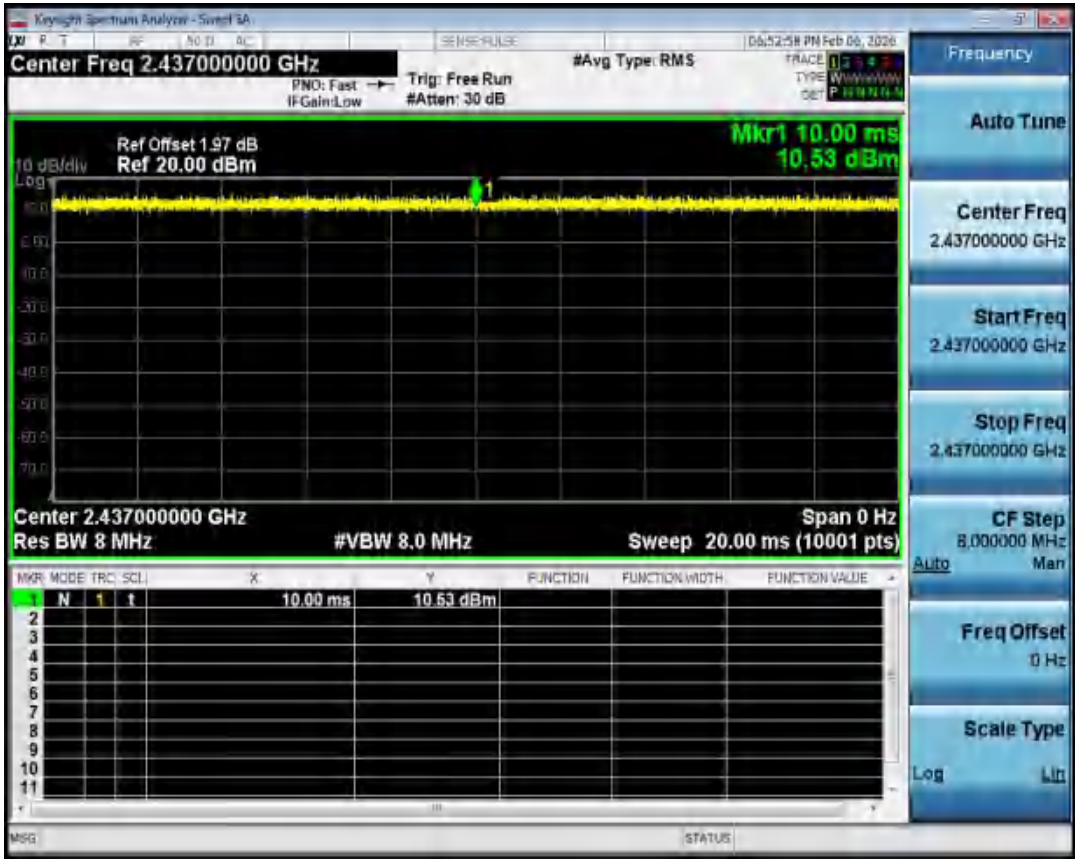
Conducted RF Spurious Emission46

Duty Cycle

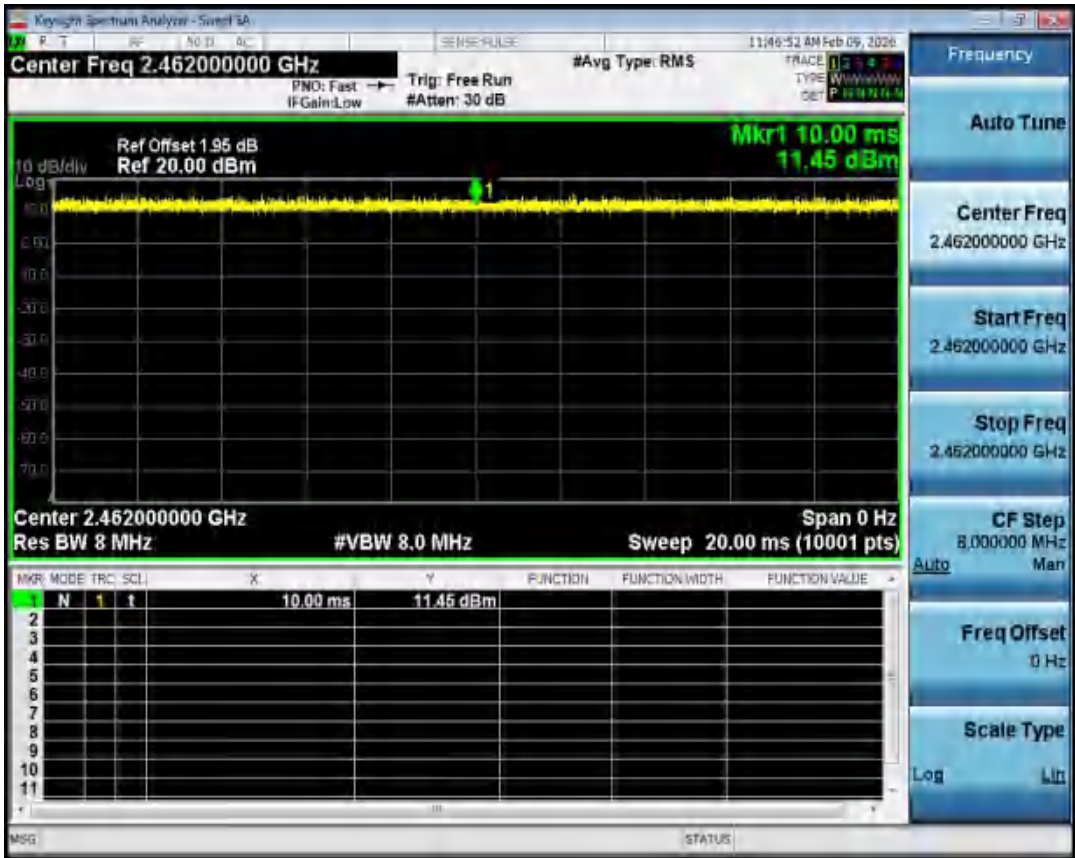
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NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0



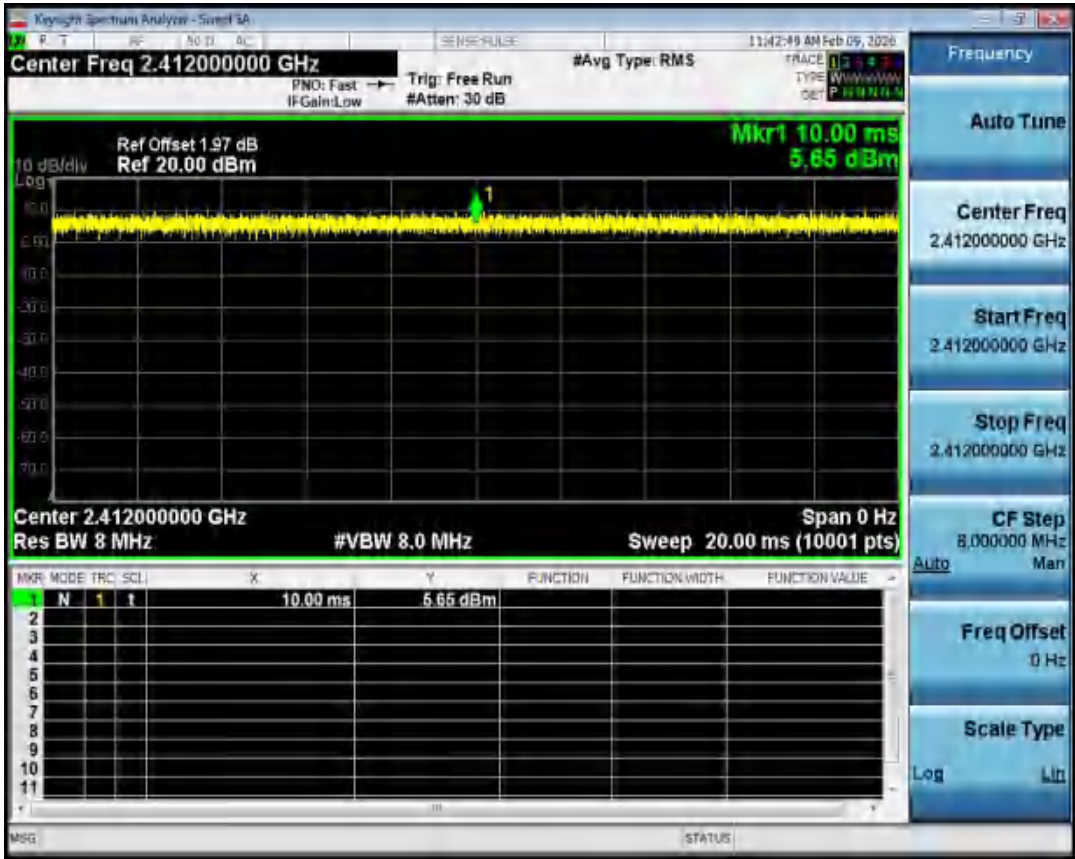
Duty Cycle NVNT b 2412MHz Ant1



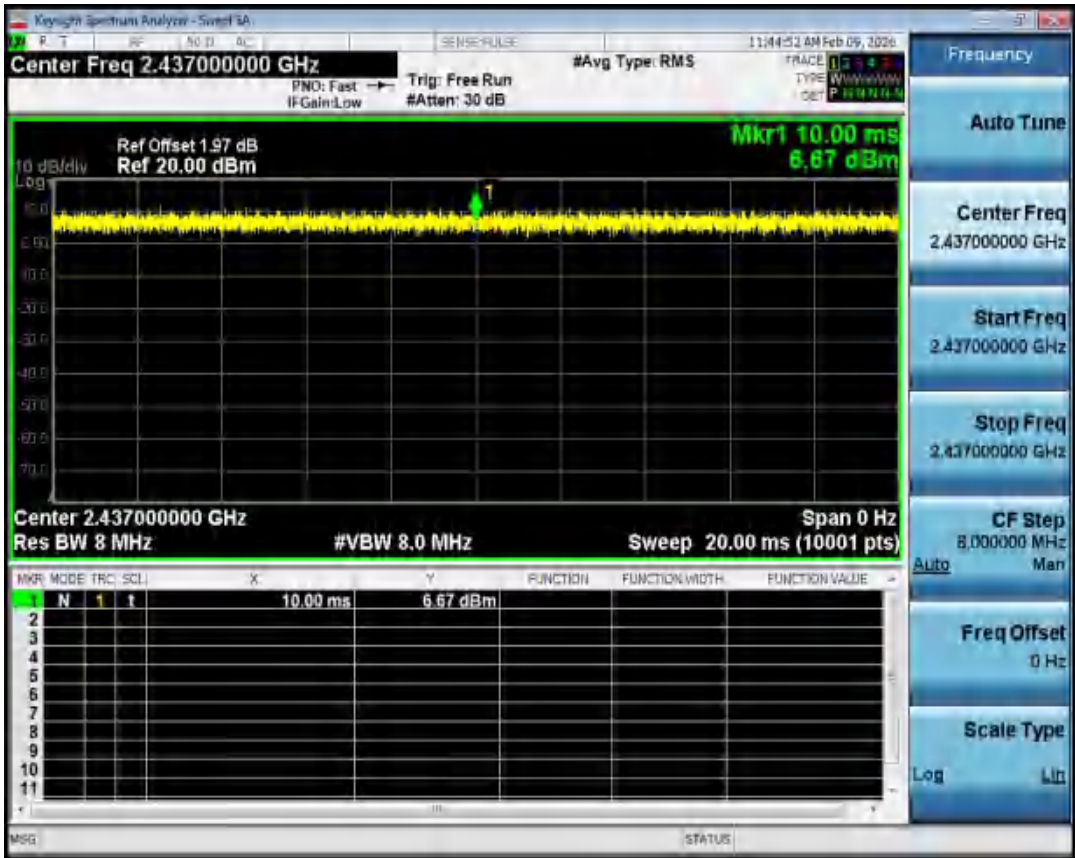
Duty Cycle NVNT b 2437MHz Ant1



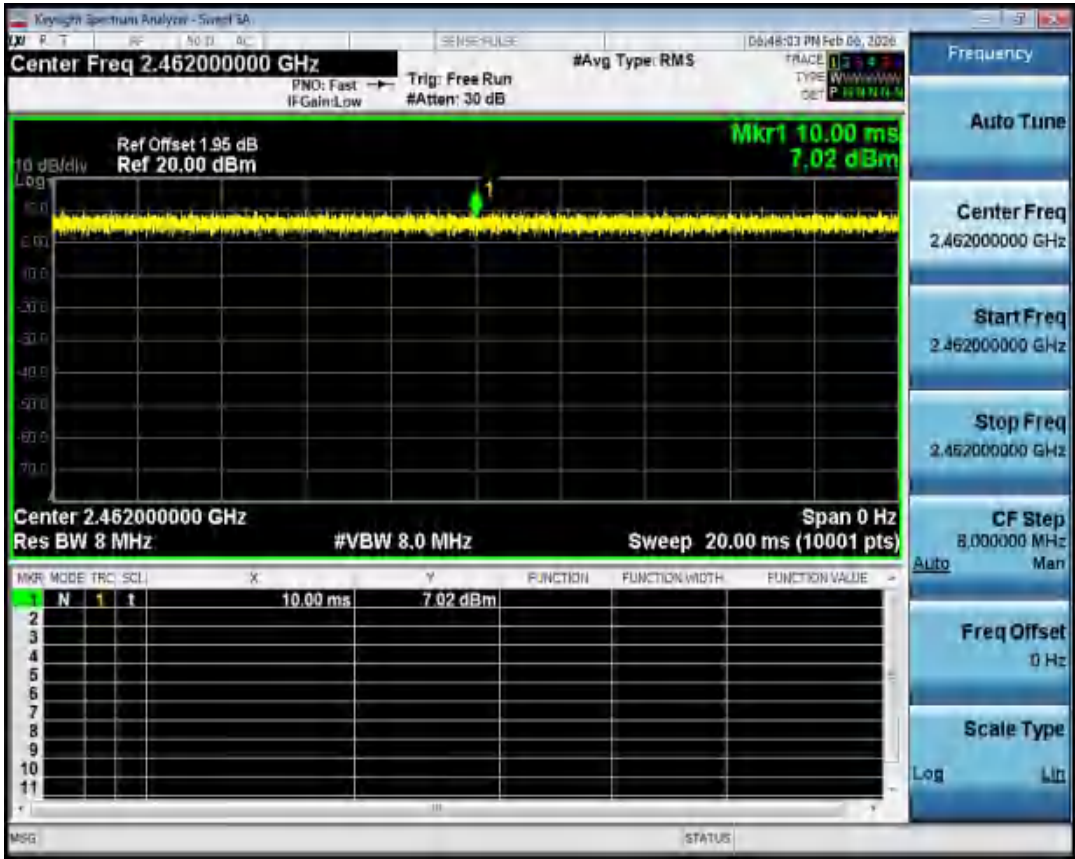
Duty Cycle NVNT b 2462MHz Ant1



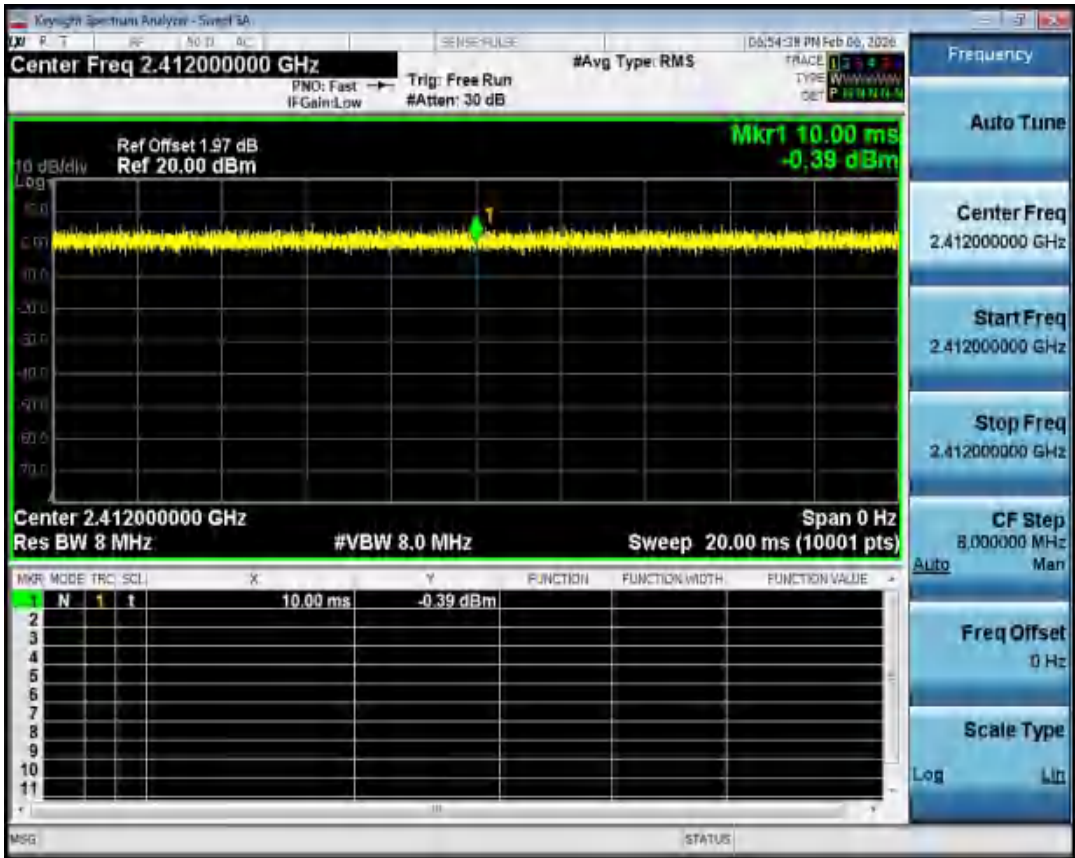
Duty Cycle NVNT g 2412MHz Ant1



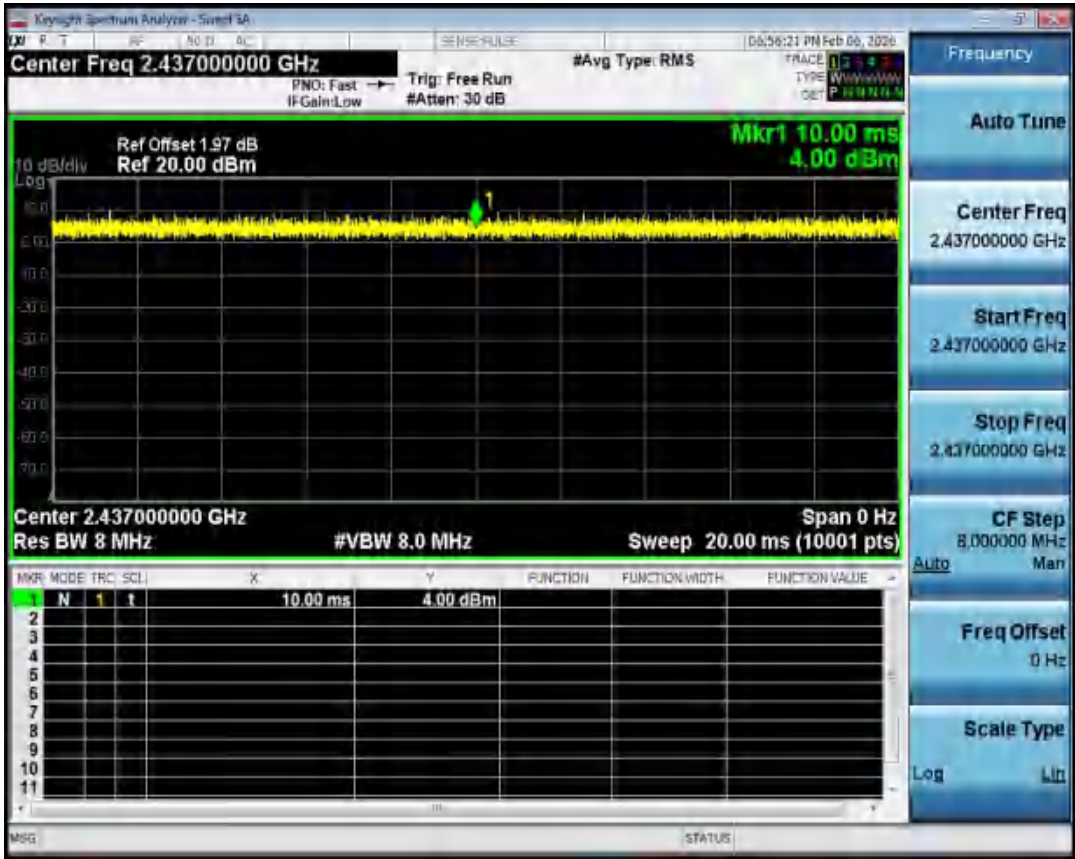
Duty Cycle NVNT g 2437MHz Ant1



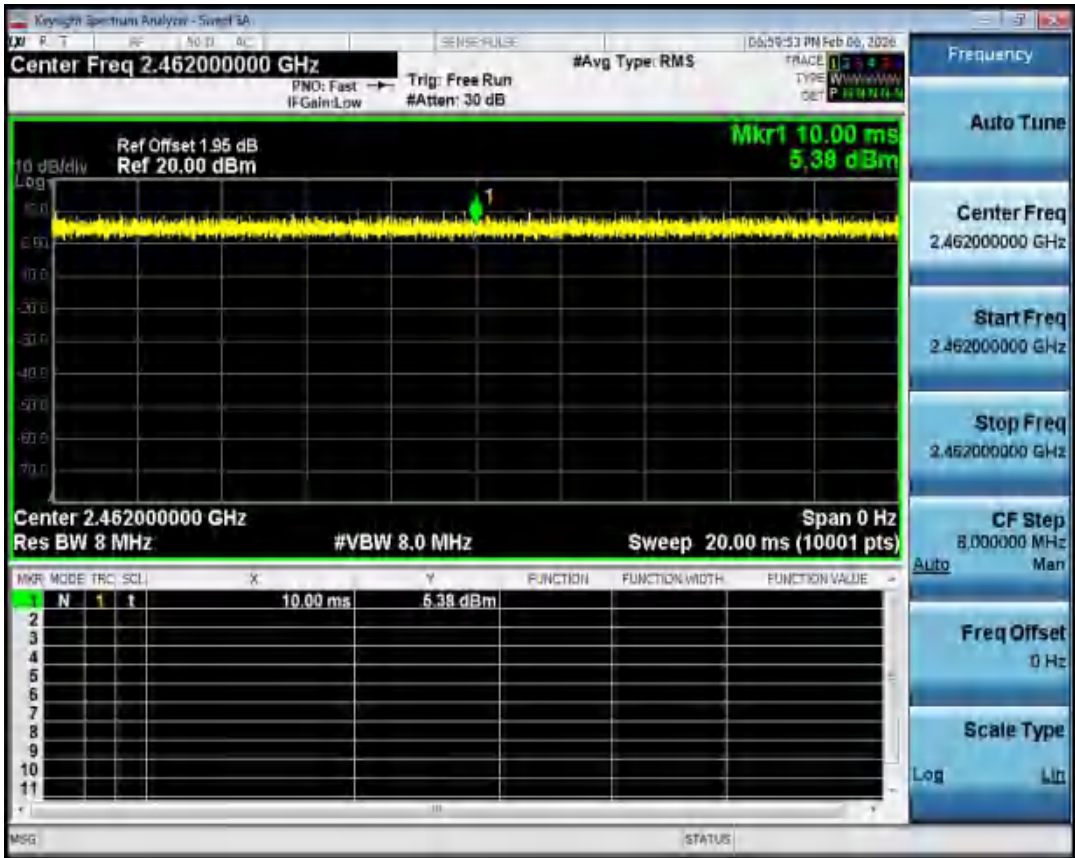
Duty Cycle NVNT g 2462MHz Ant1



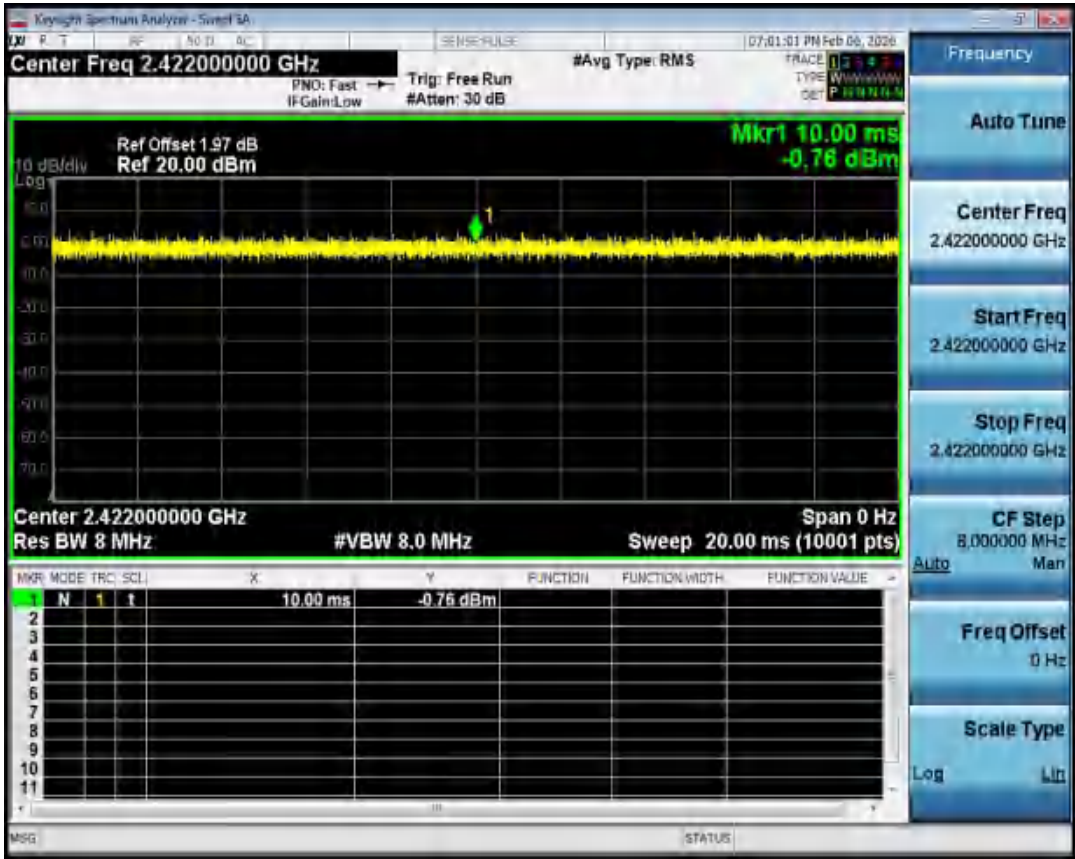
Duty Cycle NVNT n20 2412MHz Ant1



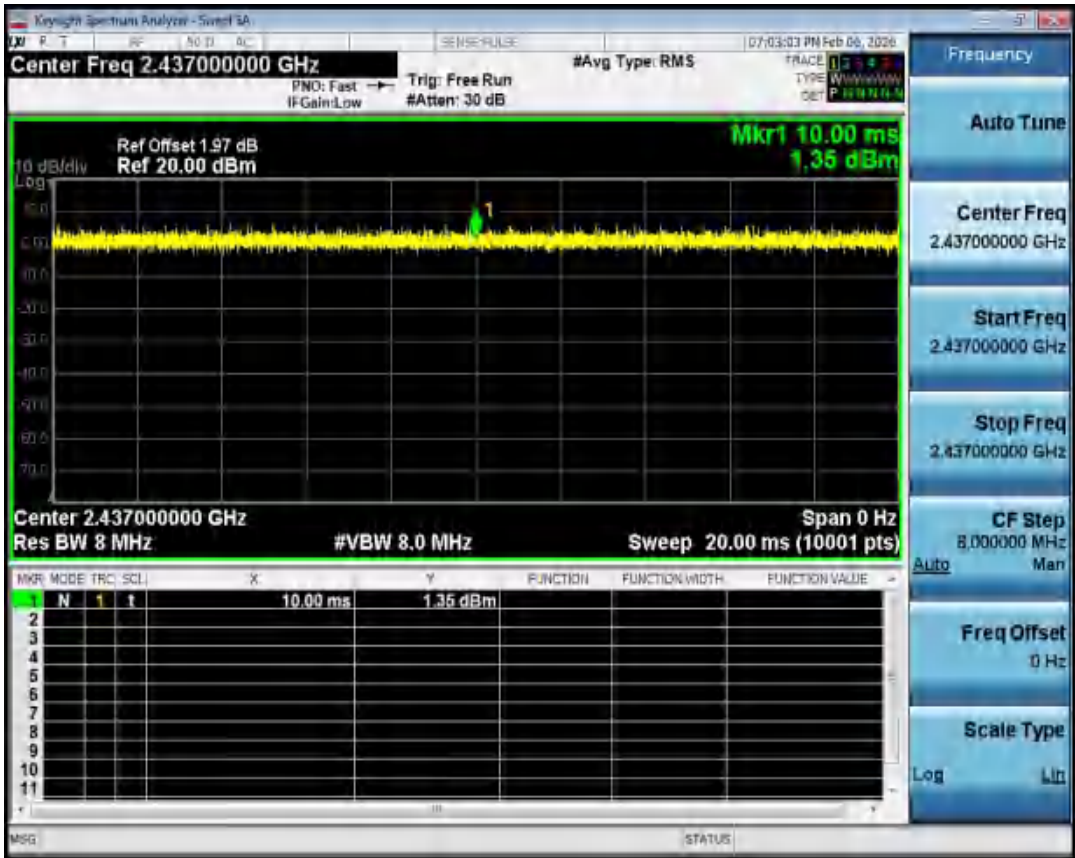
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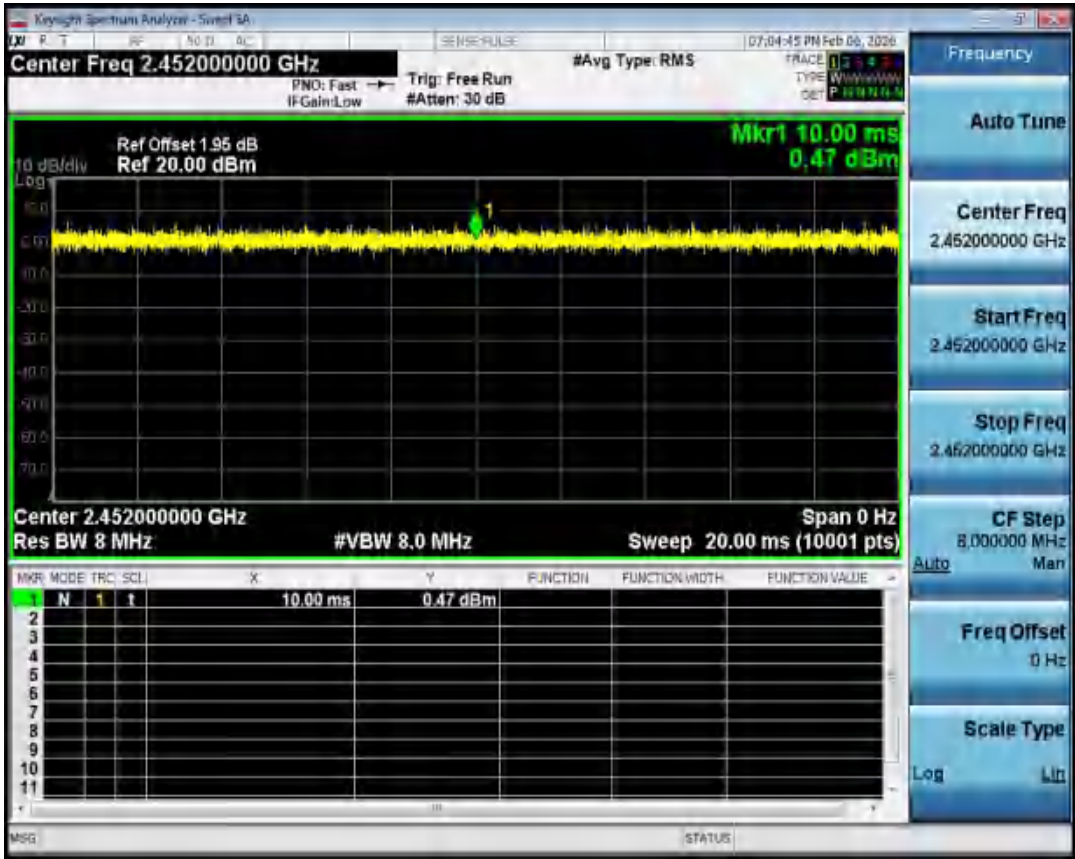
Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1

Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	5.56	0	5.56	0.0036	30	Pass
NVNT	b	2437	Ant1	8.44	0	8.44	0.00698	30	Pass
NVNT	b	2462	Ant1	8.21	0	8.21	0.00662	30	Pass
NVNT	g	2412	Ant1	2.88	0	2.88	0.00194	30	Pass
NVNT	g	2437	Ant1	3.58	0	3.58	0.00228	30	Pass
NVNT	g	2462	Ant1	2.95	0	2.95	0.00197	30	Pass
NVNT	n20	2412	Ant1	-1.73	0	-1.73	0.00067	30	Pass
NVNT	n20	2437	Ant1	1.61	0	1.61	0.00145	30	Pass
NVNT	n20	2462	Ant1	2.06	0	2.06	0.00161	30	Pass
NVNT	n40	2422	Ant1	-1.28	0	-1.28	0.00074	30	Pass
NVNT	n40	2437	Ant1	0.95	0	0.95	0.00124	30	Pass
NVNT	n40	2452	Ant1	1.1	0	1.1	0.00129	30	Pass



Average Power NVNT b 2412MHz Ant1



Average Power NVNT b 2437MHz Ant1



Average Power NVNT b 2462MHz Ant1



Average Power NVNT g 2412MHz Ant1



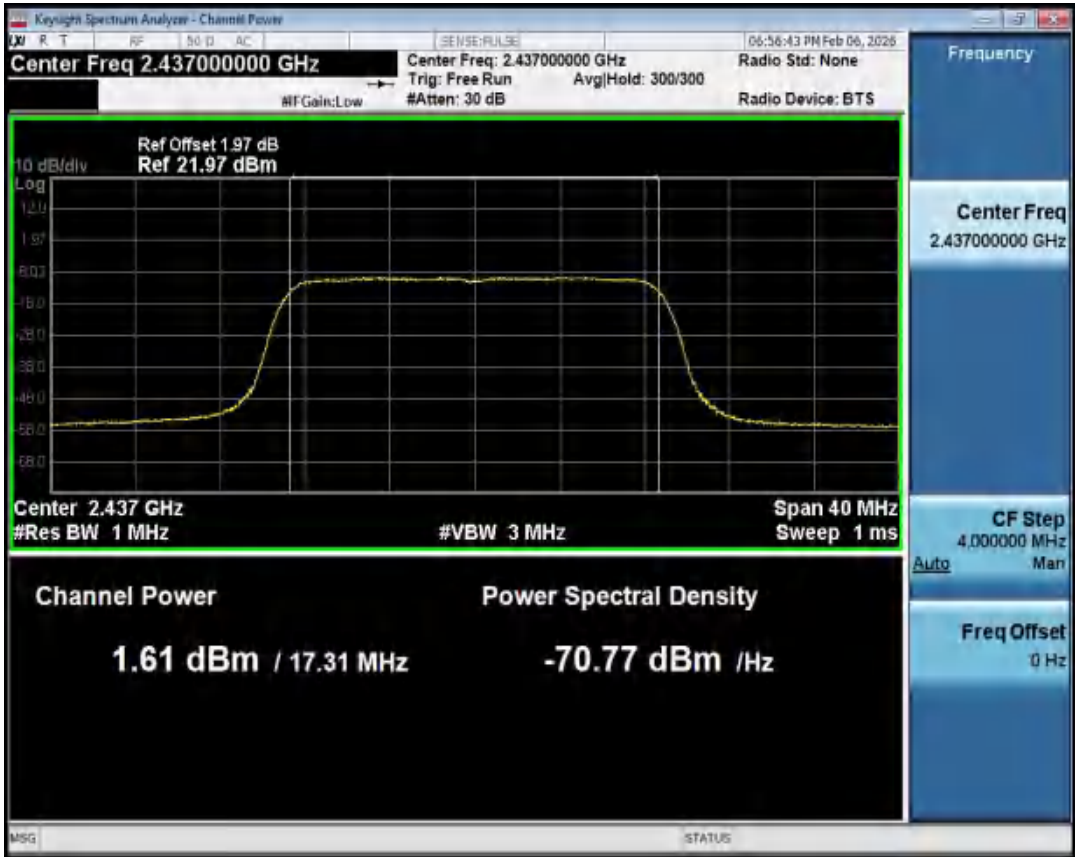
Average Power NVNT g 2437MHz Ant1



Average Power NVNT g 2462MHz Ant1



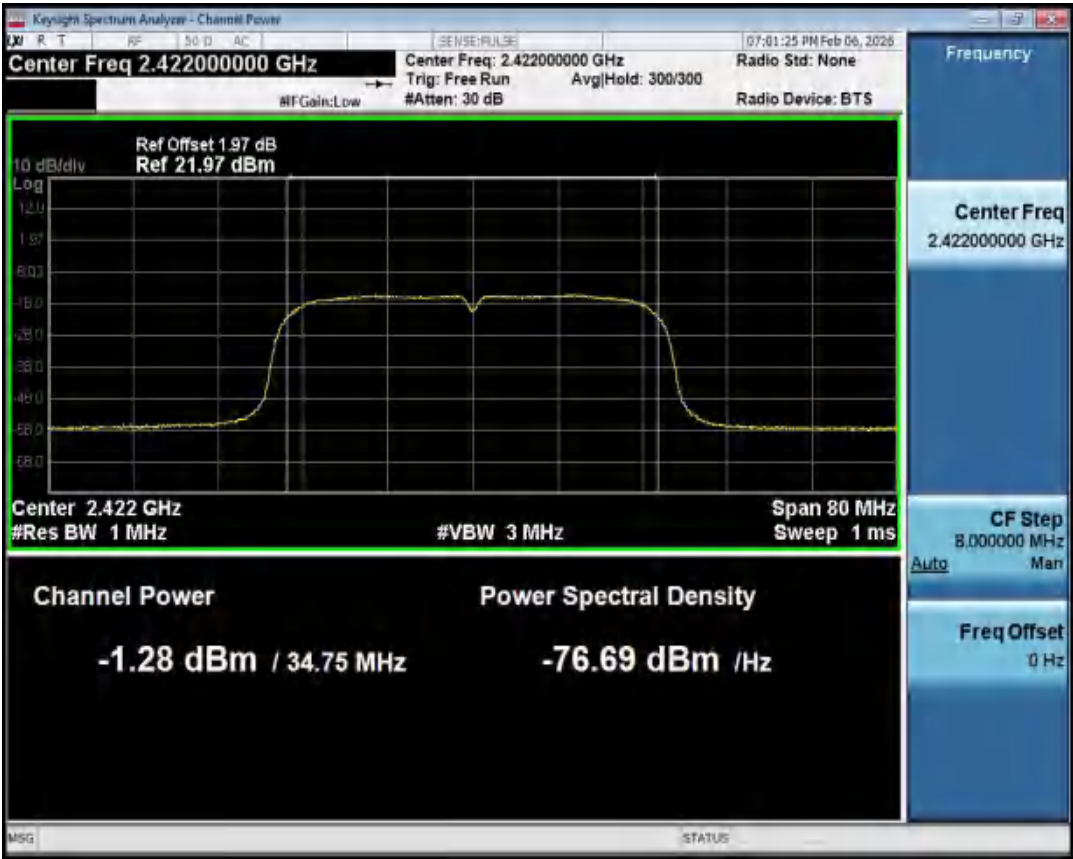
Average Power NVNT n20 2412MHz Ant1



Average Power NVNT n20 2437MHz Ant1



Average Power NVNT n20 2462MHz Ant1



Average Power NVNT n40 2422MHz Ant1



Average Power NVNT n40 2437MHz Ant1



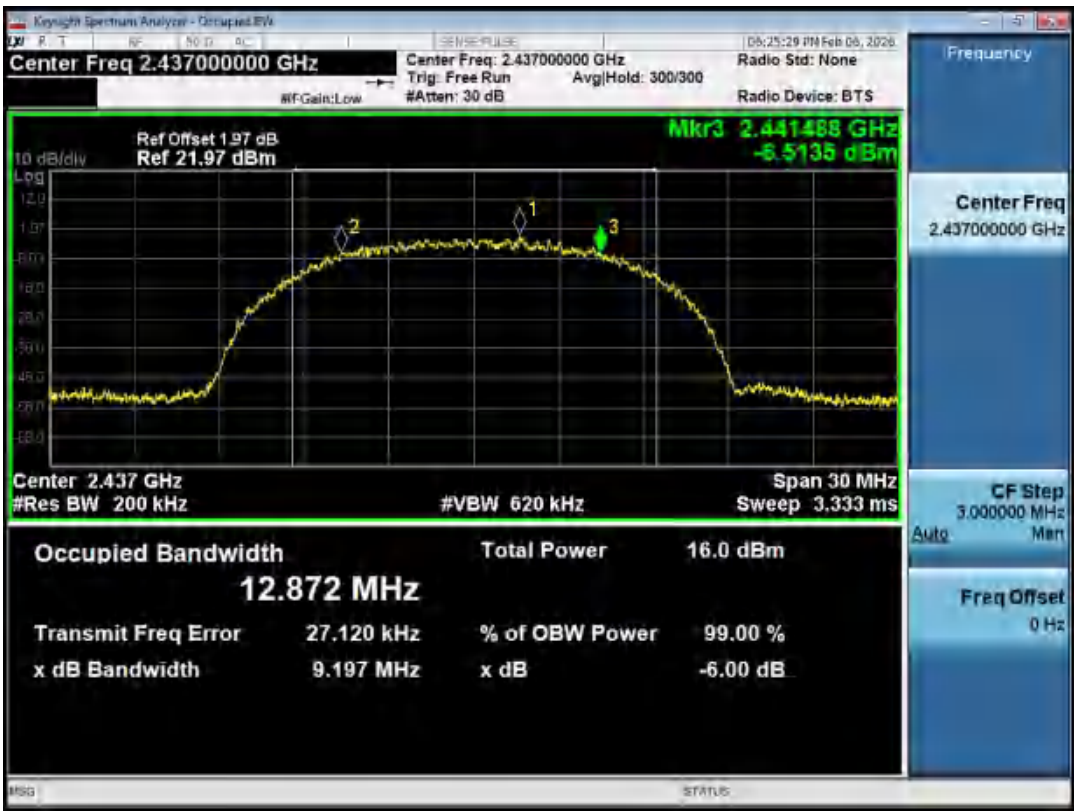
Average Power NVNT n40 2452MHz Ant1

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.228	0.5	Pass
NVNT	b	2437	Ant1	9.197	0.5	Pass
NVNT	b	2462	Ant1	9.68	0.5	Pass
NVNT	g	2412	Ant1	16.49	0.5	Pass
NVNT	g	2437	Ant1	16.48	0.5	Pass
NVNT	g	2462	Ant1	16.5	0.5	Pass
NVNT	n20	2412	Ant1	17.29	0.5	Pass
NVNT	n20	2437	Ant1	17.33	0.5	Pass
NVNT	n20	2462	Ant1	17.47	0.5	Pass
NVNT	n40	2422	Ant1	33.34	0.5	Pass
NVNT	n40	2437	Ant1	32.61	0.5	Pass
NVNT	n40	2452	Ant1	33.82	0.5	Pass



-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



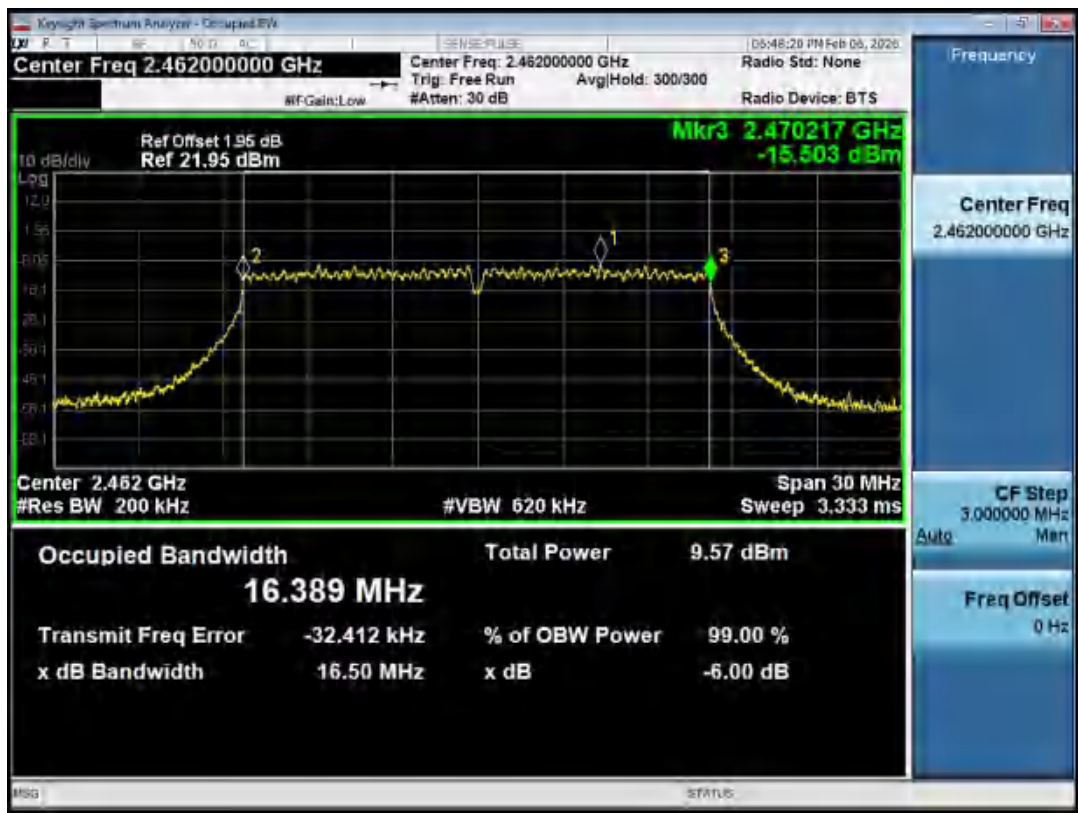
-6dB Bandwidth NVNT b 2462MHz Ant1



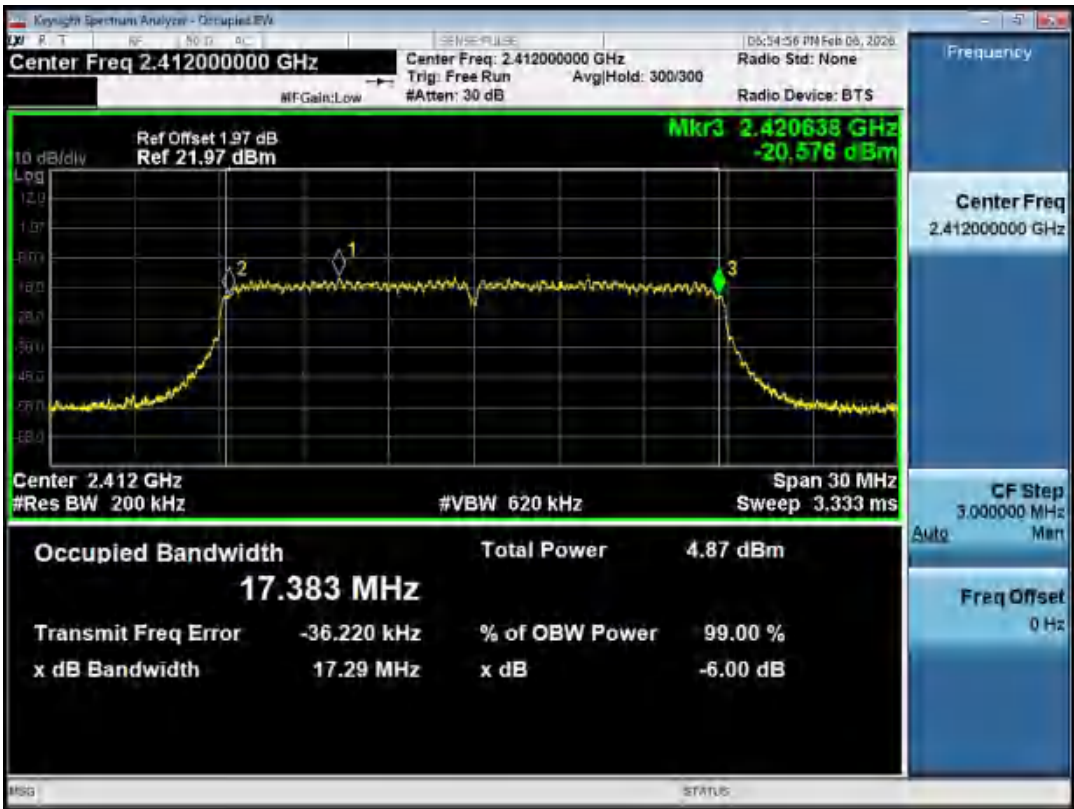
-6dB Bandwidth NVNT g 2412MHz Ant1



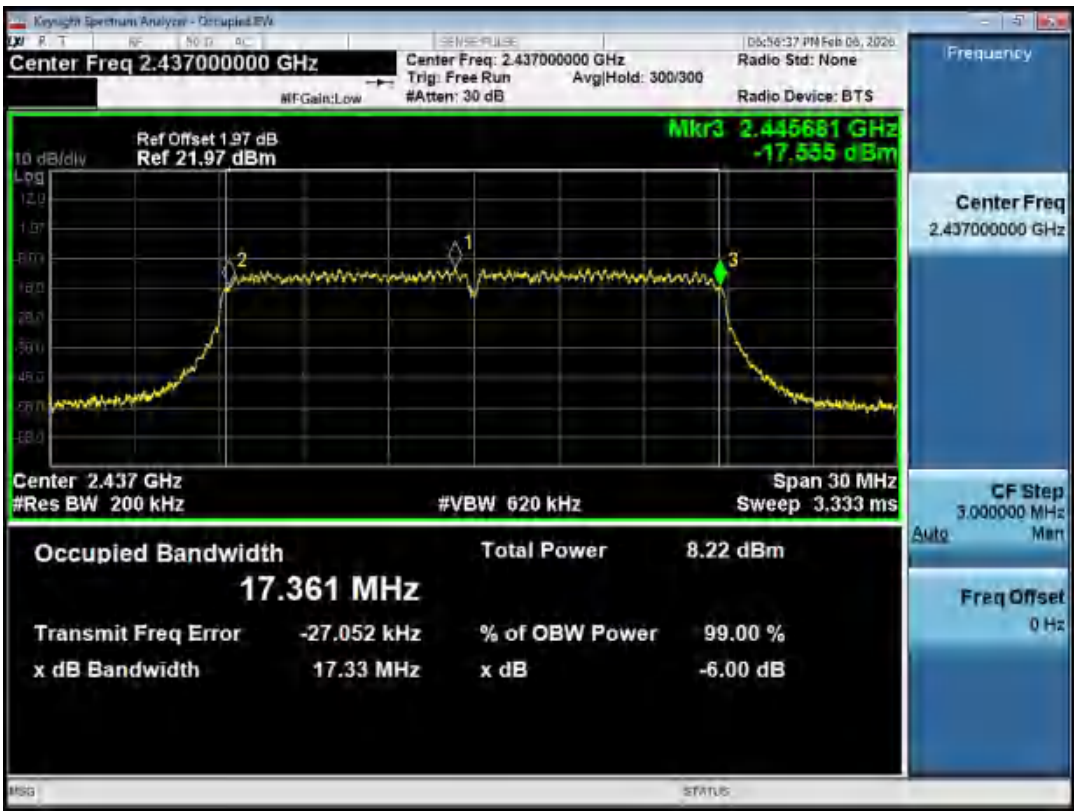
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



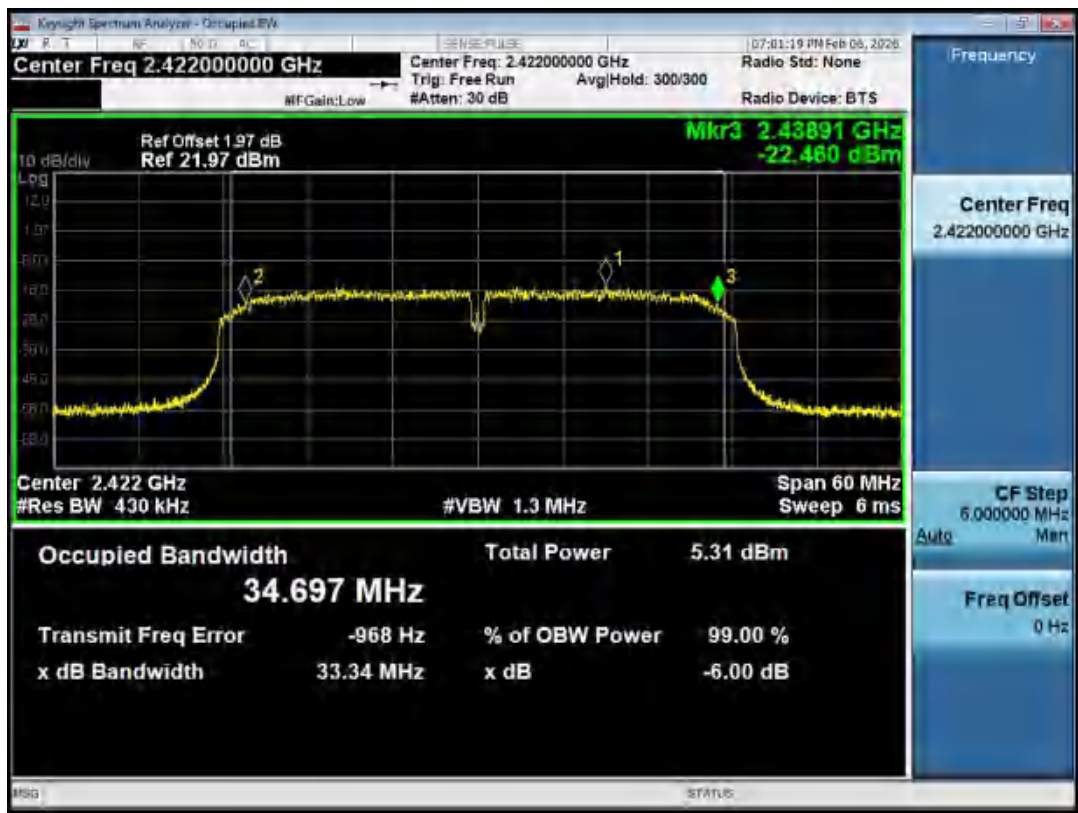
-6dB Bandwidth NVNT n20 2412MHz Ant1



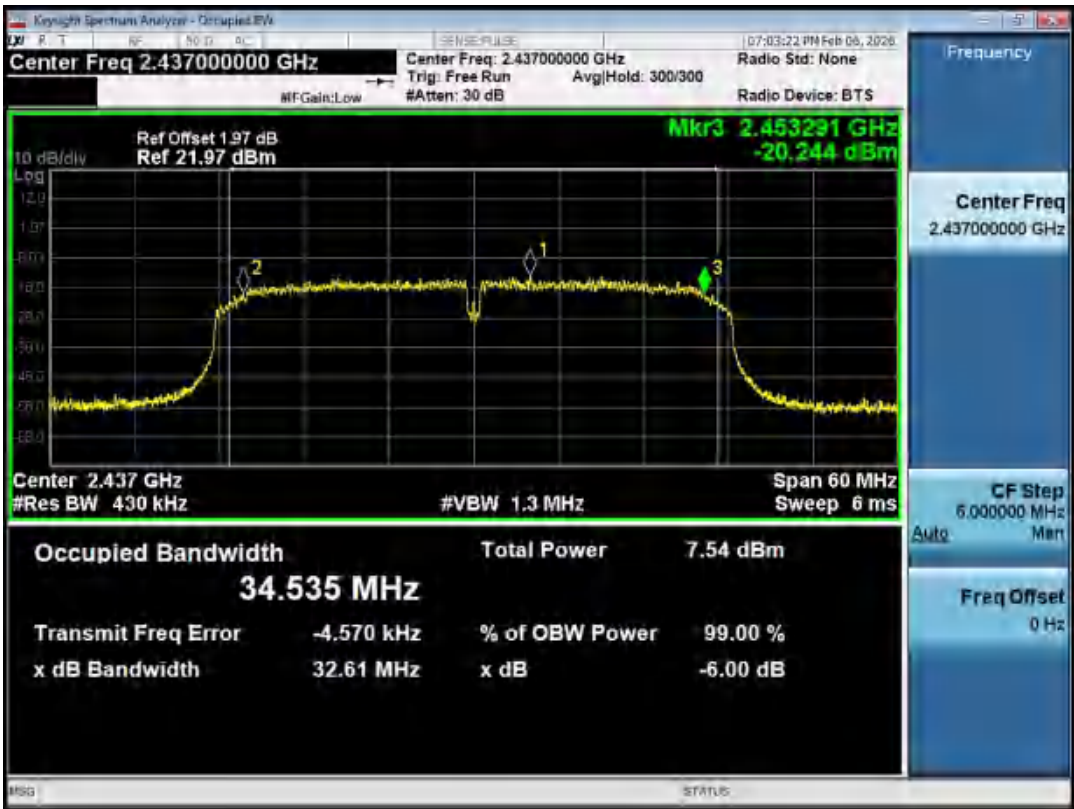
-6dB Bandwidth NVNT n20 2437MHz Ant1



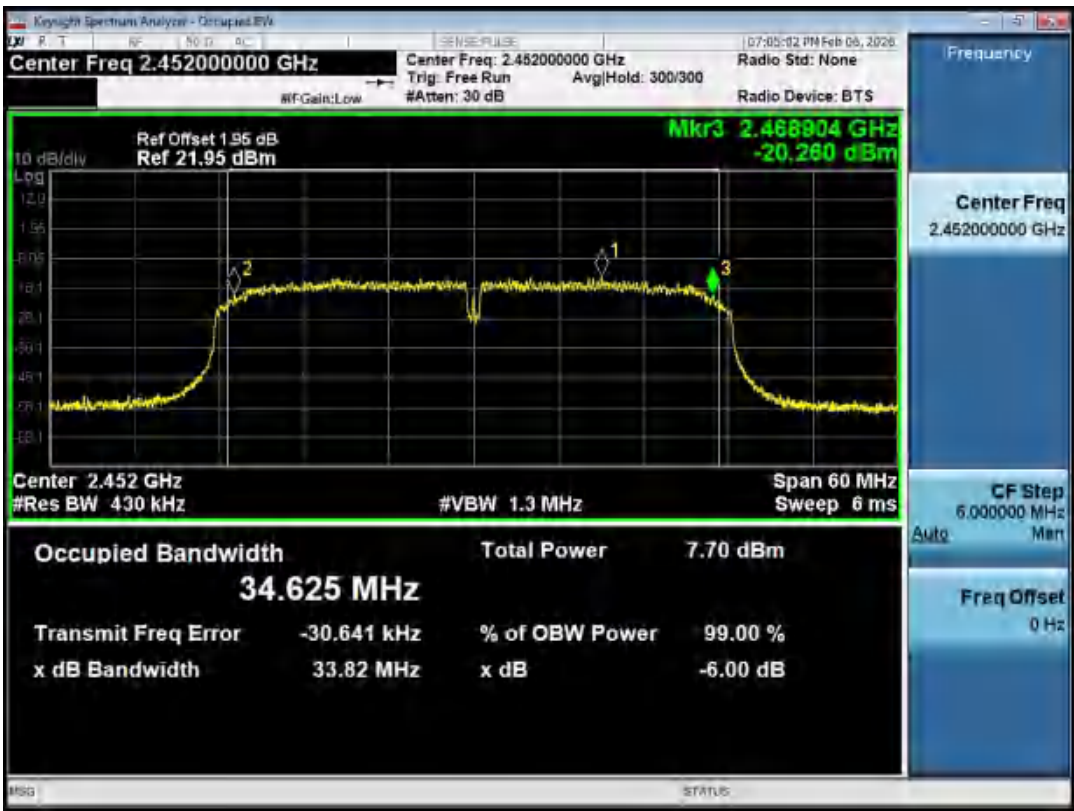
-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.967
NVNT	b	2437	Ant1	12.912
NVNT	b	2462	Ant1	12.921
NVNT	g	2412	Ant1	16.413
NVNT	g	2437	Ant1	16.402
NVNT	g	2462	Ant1	16.413
NVNT	n20	2412	Ant1	17.35
NVNT	n20	2437	Ant1	17.312
NVNT	n20	2462	Ant1	17.332
NVNT	n40	2422	Ant1	34.751
NVNT	n40	2437	Ant1	34.565
NVNT	n40	2452	Ant1	34.671



OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1



OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1



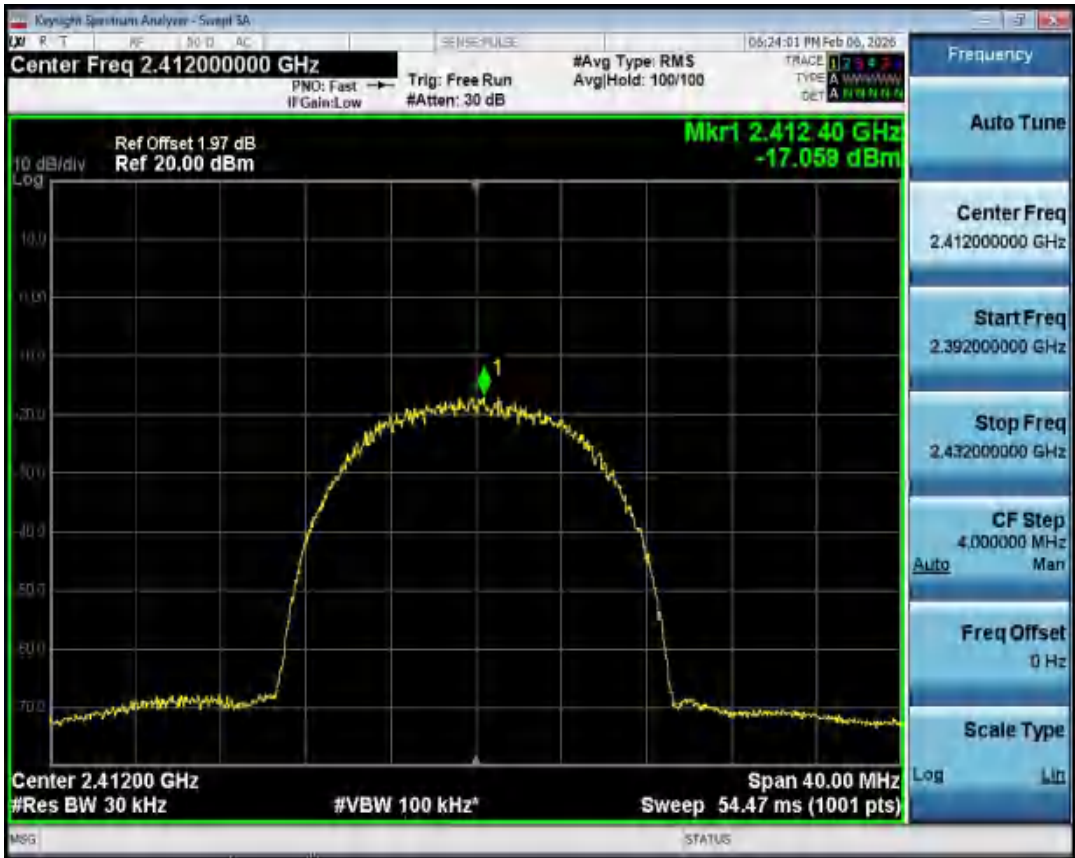
OBW NVNT n40 2437MHz Ant1



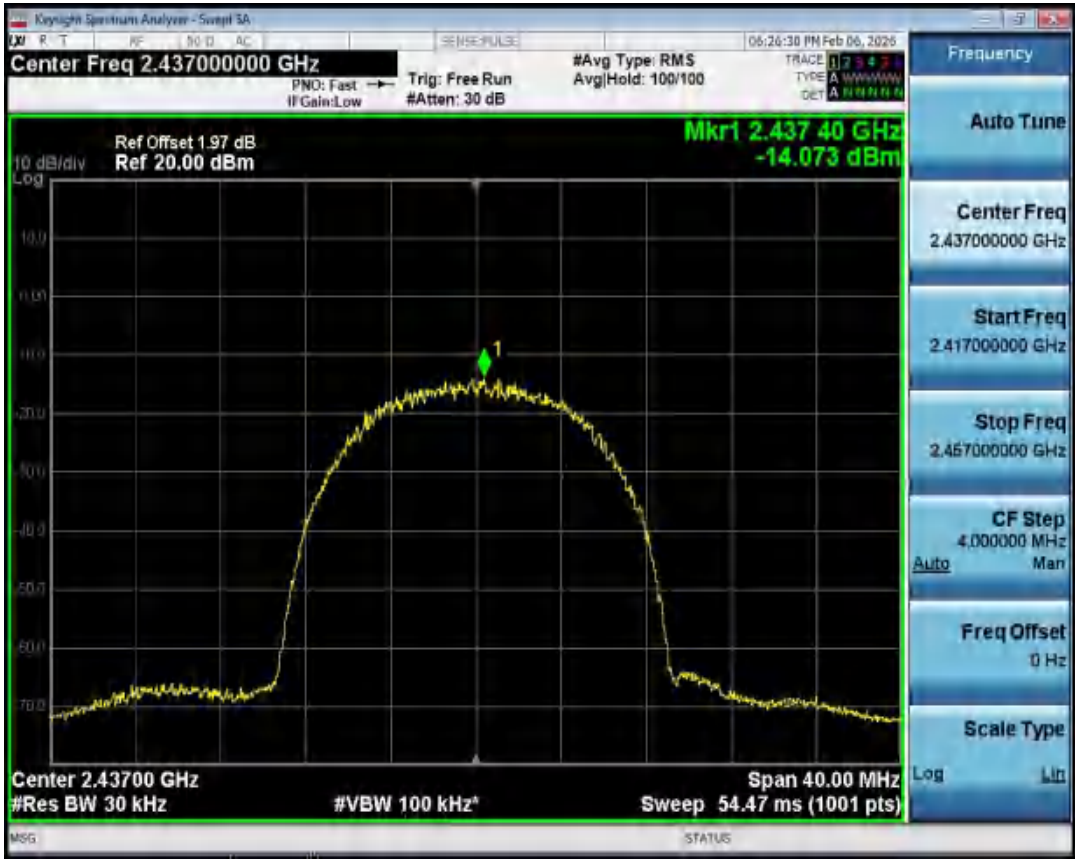
OBW NVNT n40 2452MHz Ant1

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	-27.06	0	-27.06	8	Pass
NVNT	b	2437	Ant1	-24.07	0	-24.07	8	Pass
NVNT	b	2462	Ant1	-24.13	0	-24.13	8	Pass
NVNT	g	2412	Ant1	-31.31	0	-31.31	8	Pass
NVNT	g	2437	Ant1	-30.51	0	-30.51	8	Pass
NVNT	g	2462	Ant1	-31.52	0	-31.52	8	Pass
NVNT	n20	2412	Ant1	-36.46	0	-36.46	8	Pass
NVNT	n20	2437	Ant1	-33.2	0	-33.2	8	Pass
NVNT	n20	2462	Ant1	-32.82	0	-32.82	8	Pass
NVNT	n40	2422	Ant1	-38.4	0	-38.4	8	Pass
NVNT	n40	2437	Ant1	-36.28	0	-36.28	8	Pass
NVNT	n40	2452	Ant1	-35.99	0	-35.99	8	Pass
Remark: $PSD(dbm/3kHz) = PSD(dbm/30kHz) - 10\log(30kHz/3kHz)$								



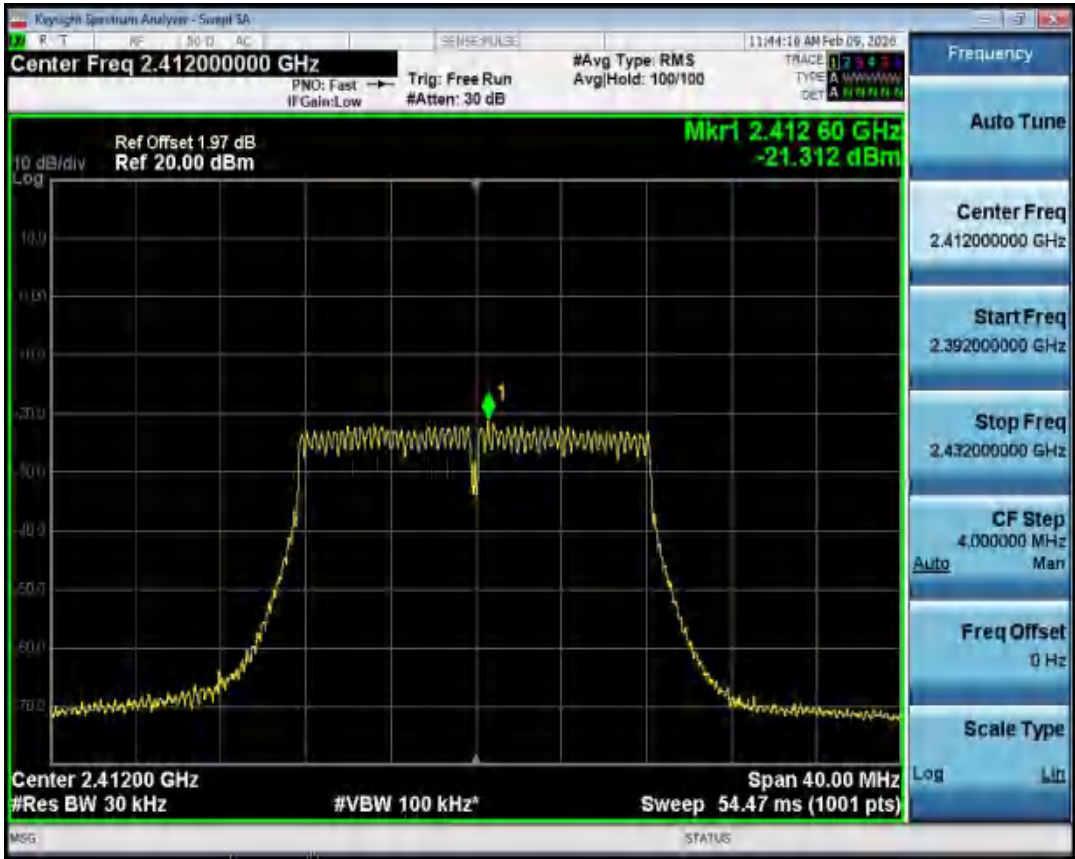
PSD NVNT b 2412MHz Ant1



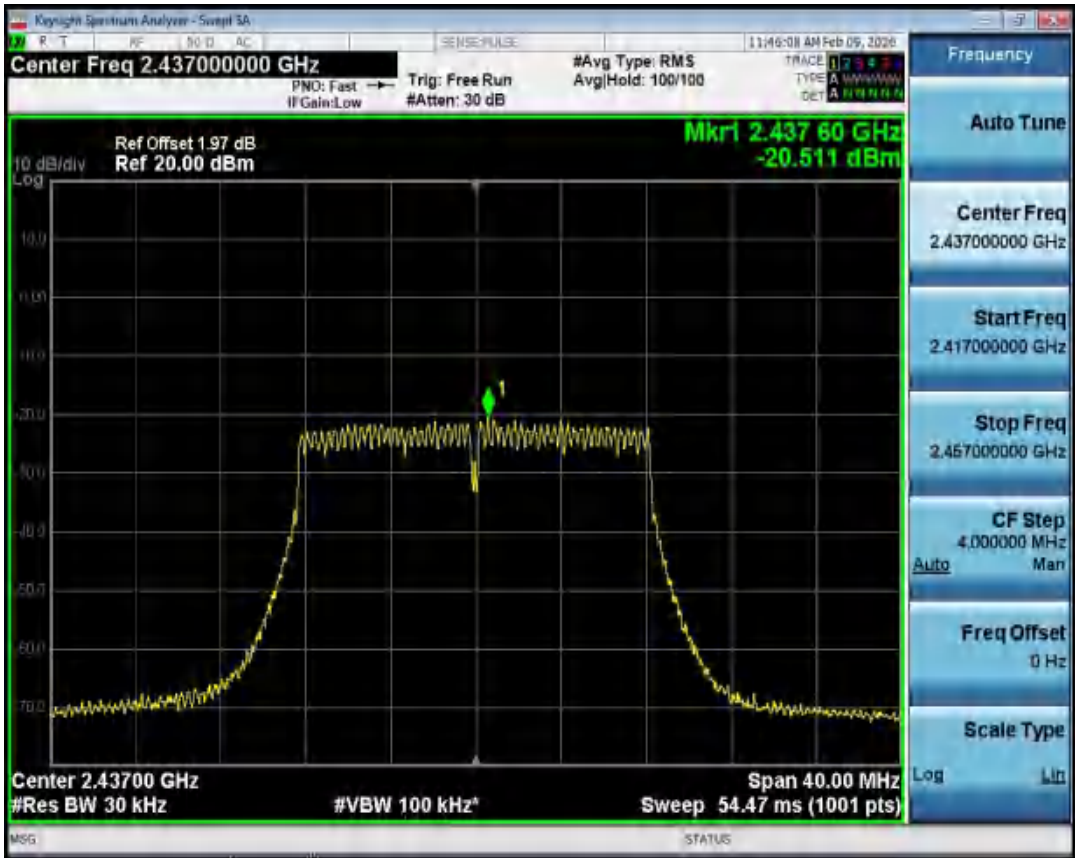
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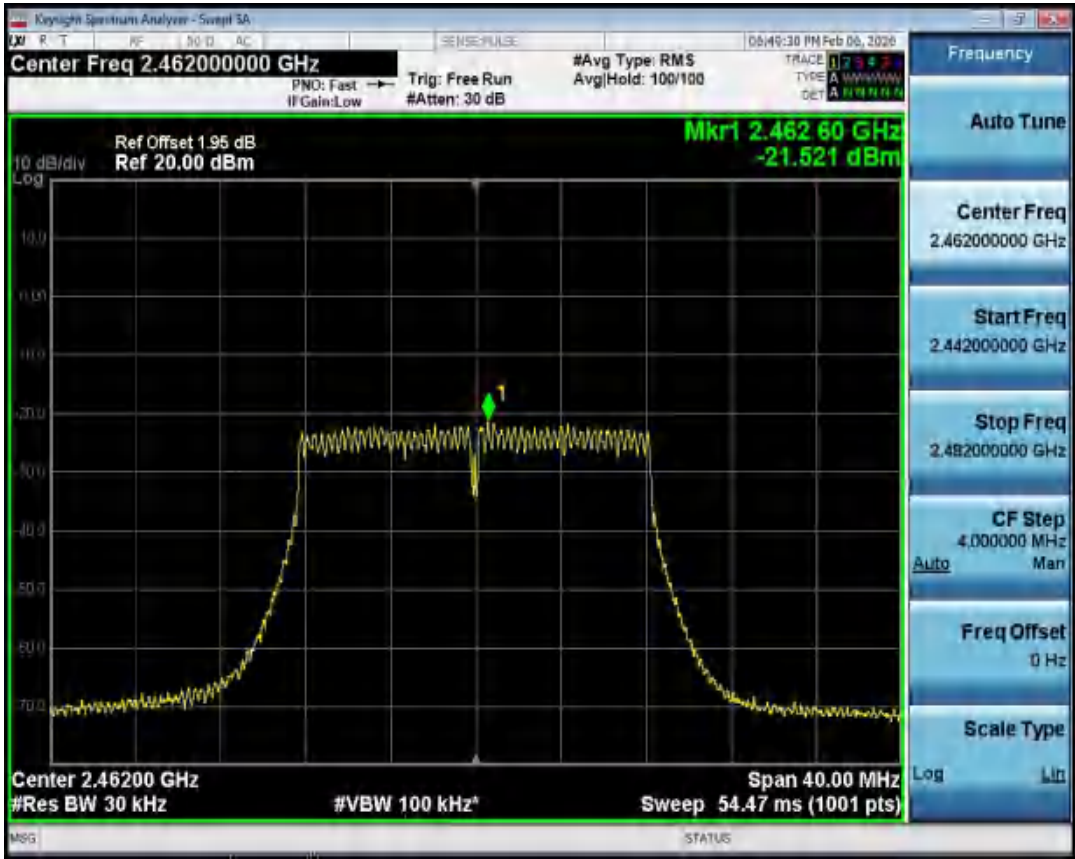
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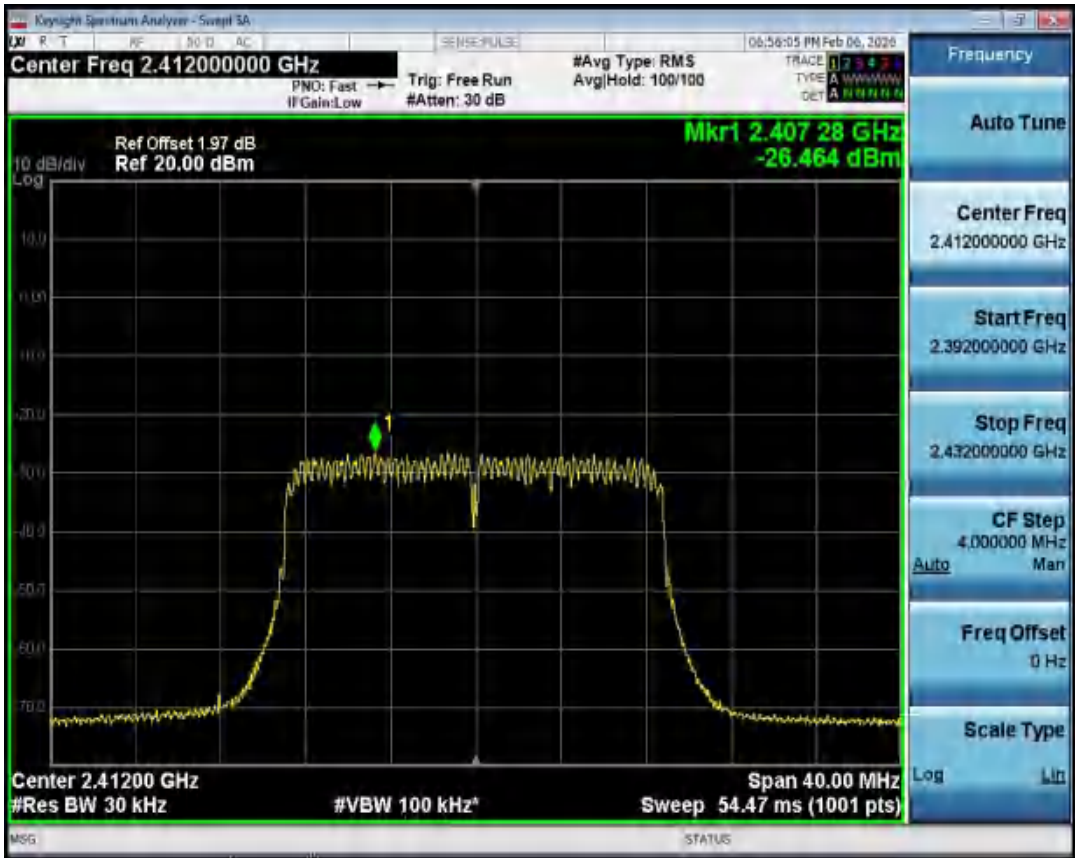
PSD NVNT g 2412MHz Ant1



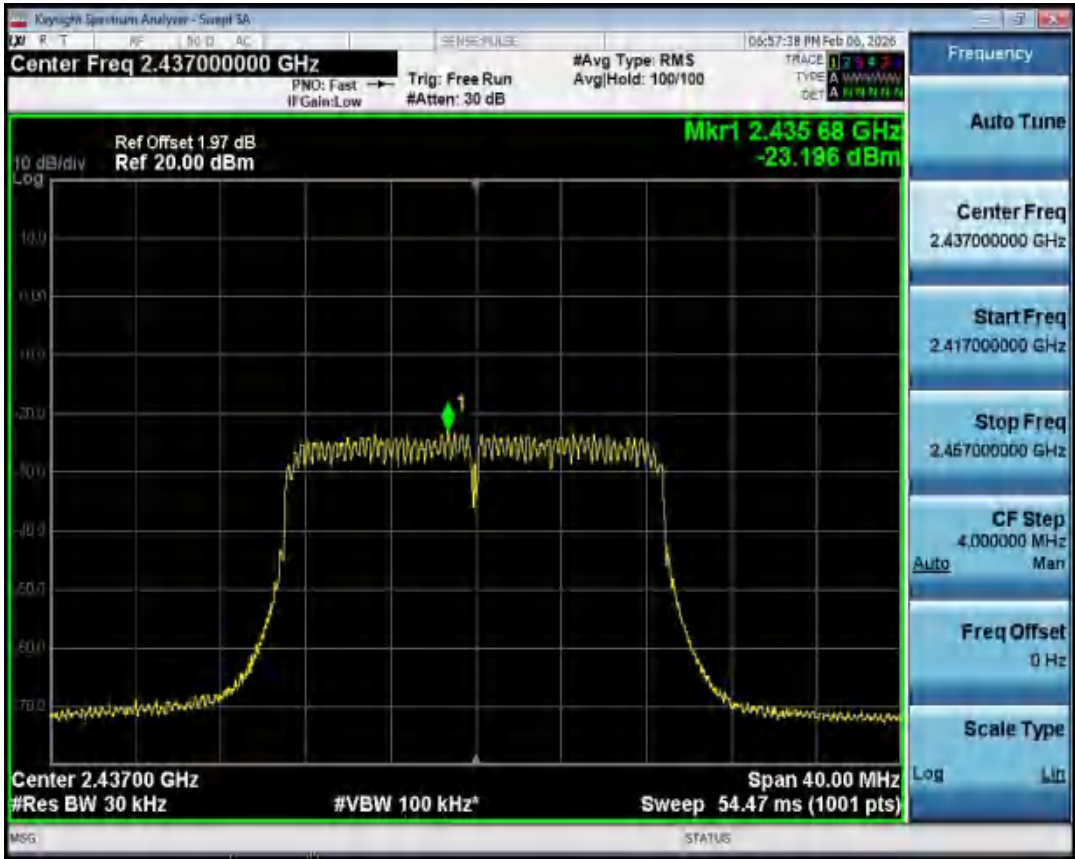
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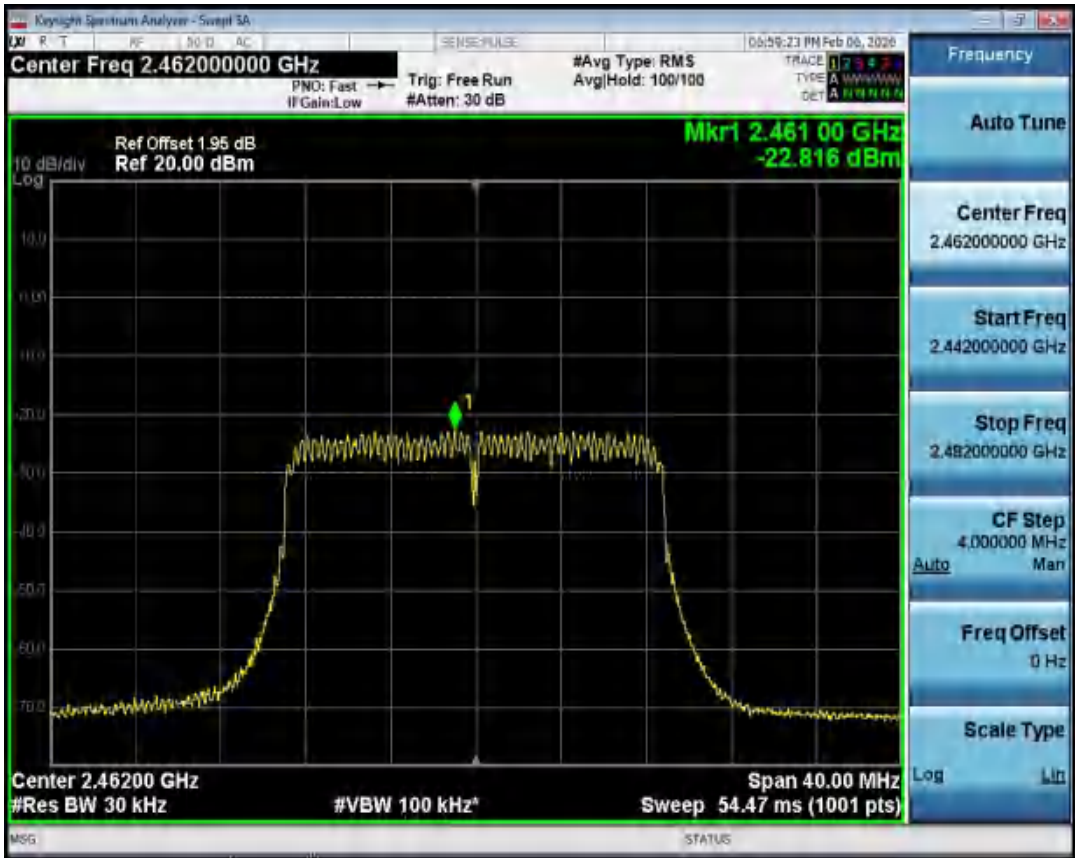
PSD NVNT g 2462MHz Ant1



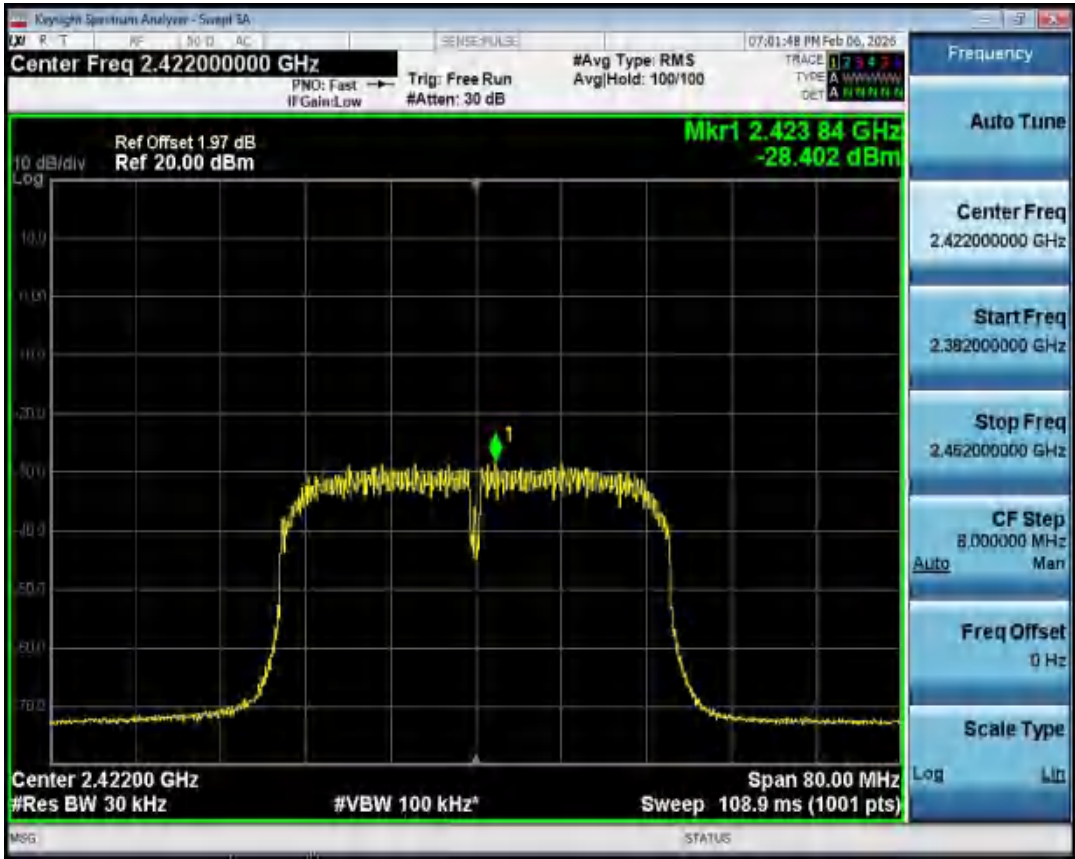
PSD NVNT n20 2412MHz Ant1



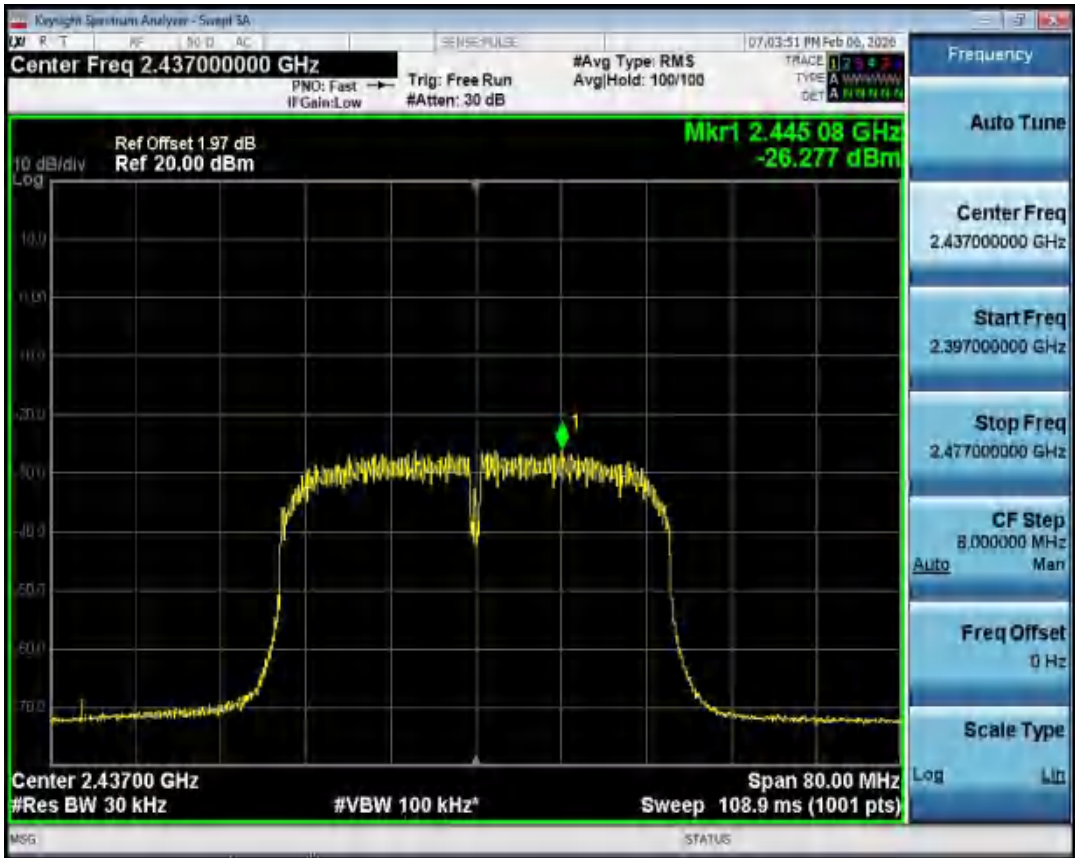
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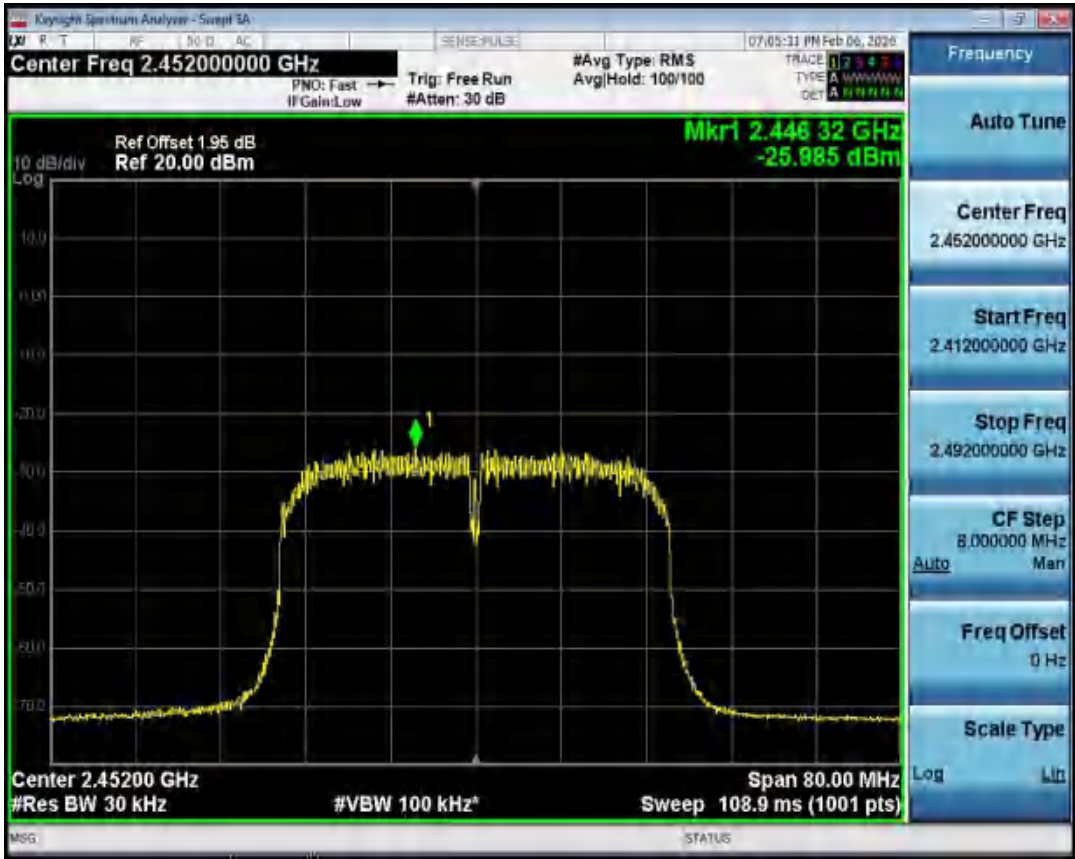
PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



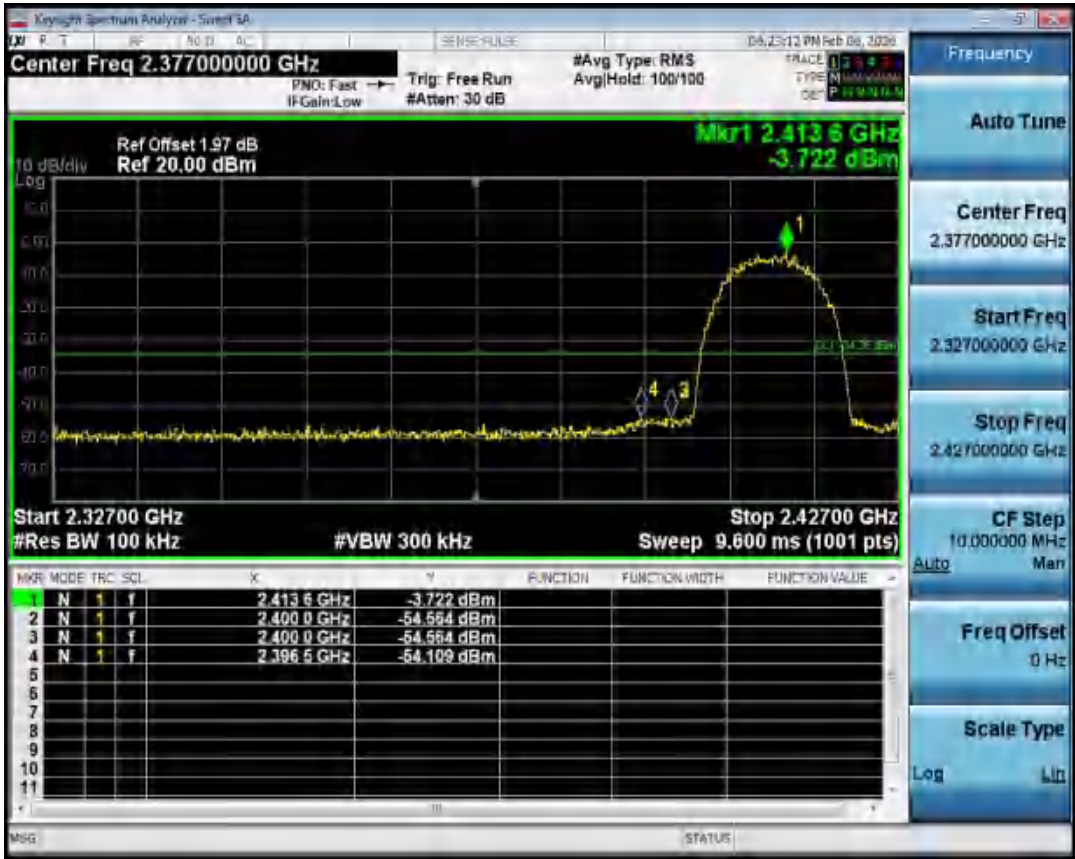
PSD NVNT n40 2452MHz Ant1

Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.84	-30	Pass
NVNT	b	2462	Ant1	-54.75	-30	Pass
NVNT	g	2412	Ant1	-40.38	-30	Pass
NVNT	g	2462	Ant1	-46.65	-30	Pass
NVNT	n20	2412	Ant1	-40.21	-30	Pass
NVNT	n20	2462	Ant1	-44.82	-30	Pass
NVNT	n40	2422	Ant1	-38	-30	Pass
NVNT	n40	2452	Ant1	-41.3	-30	Pass



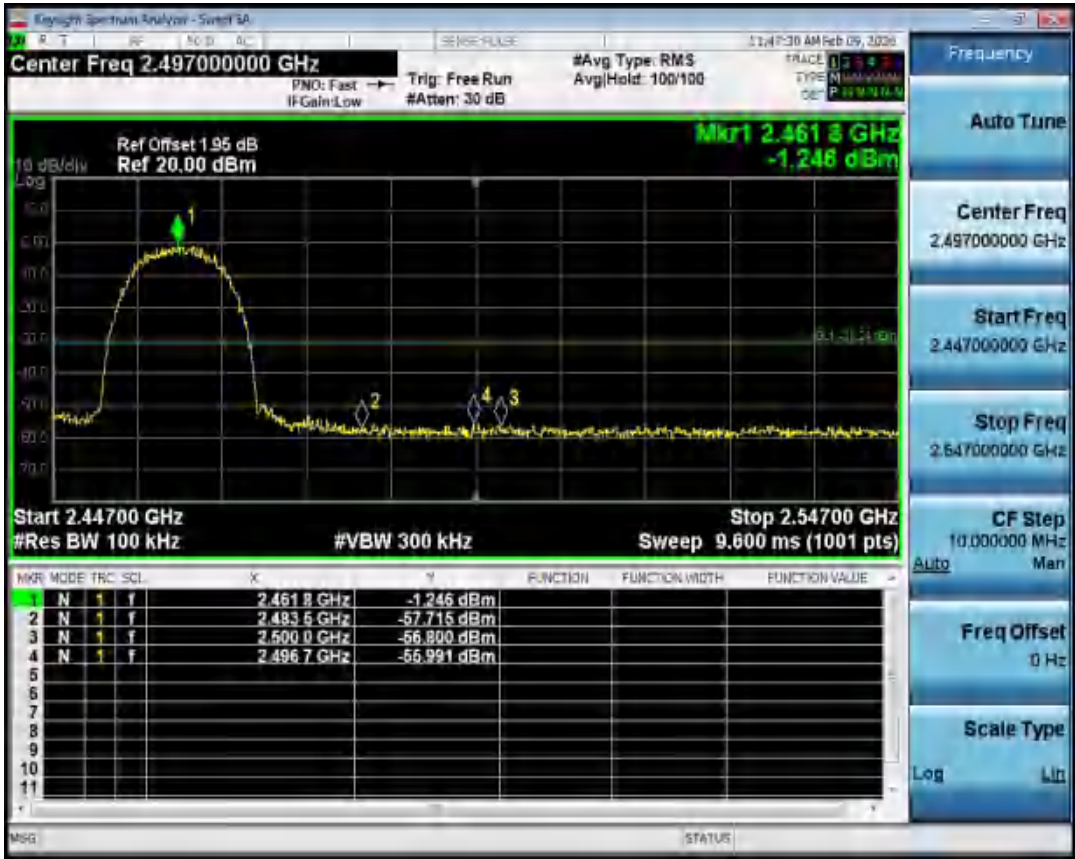
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



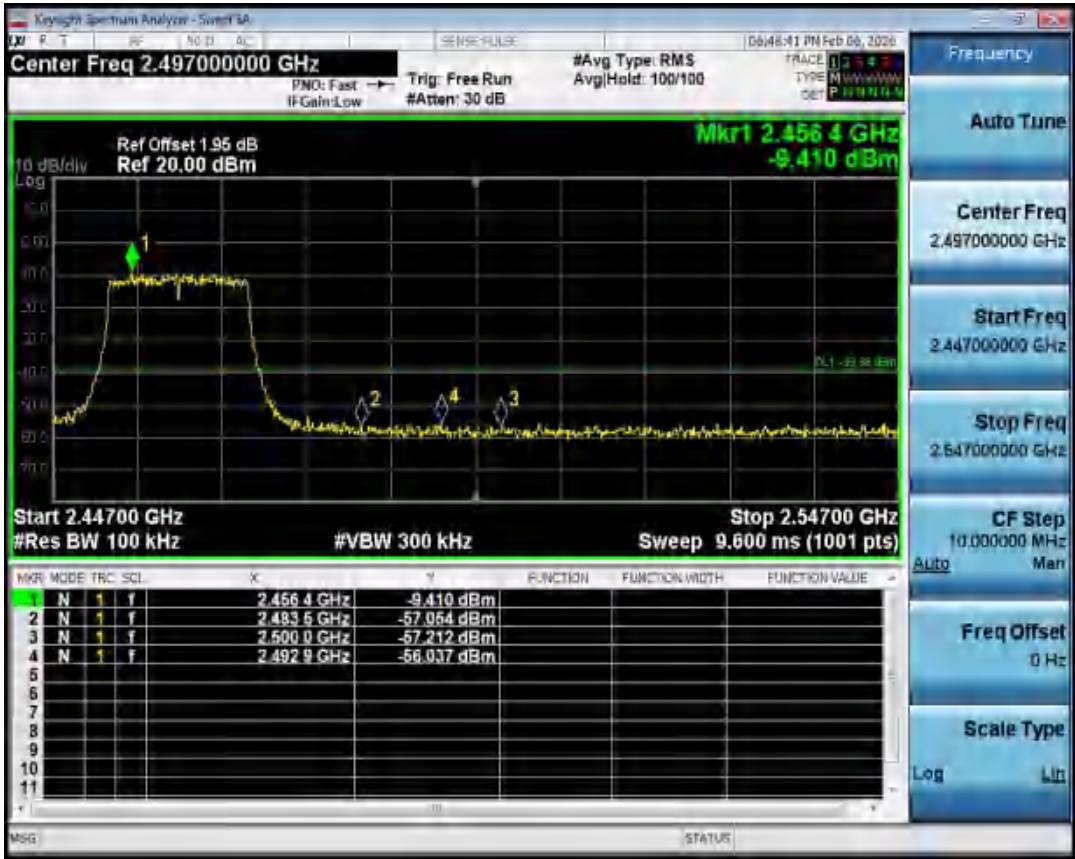
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



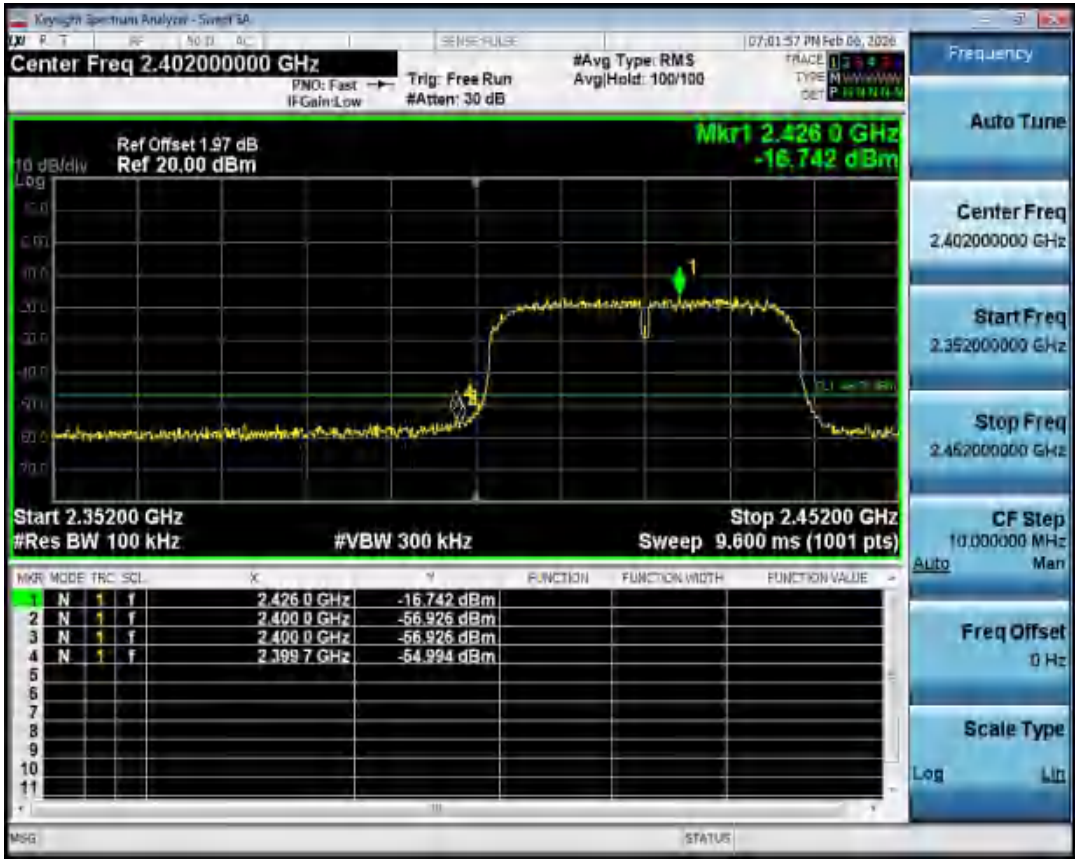
Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



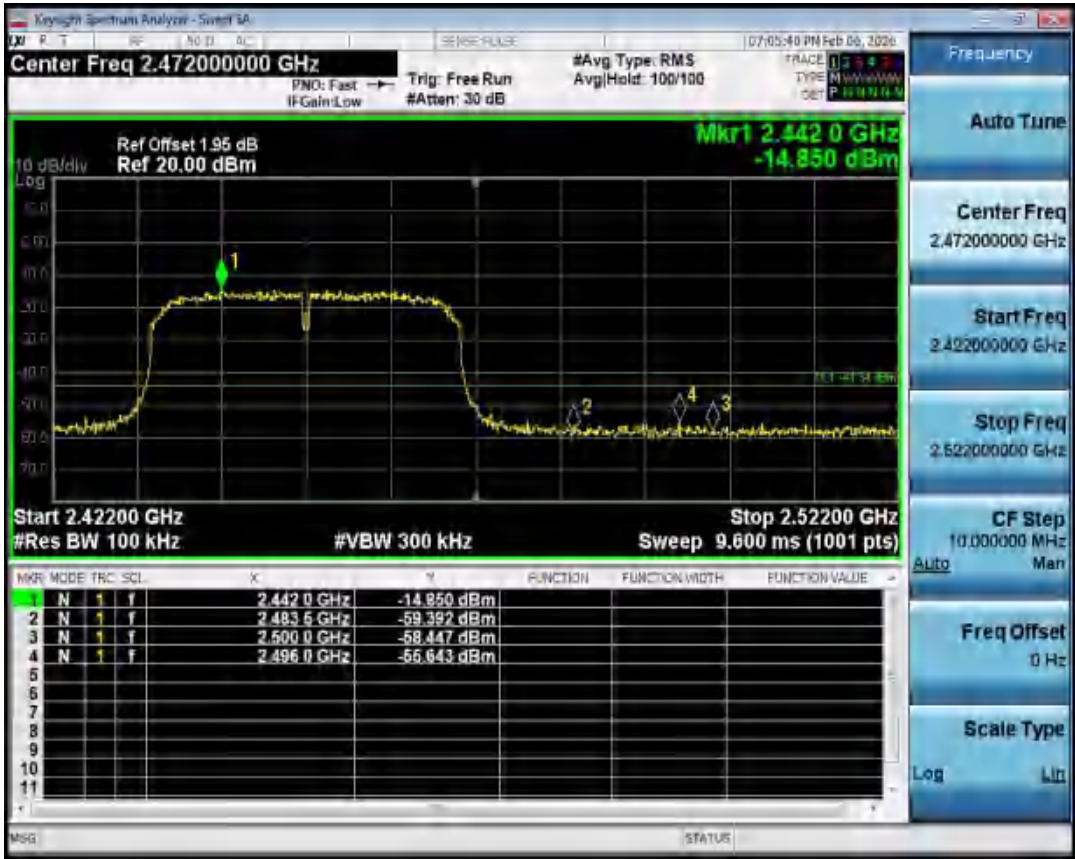
Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



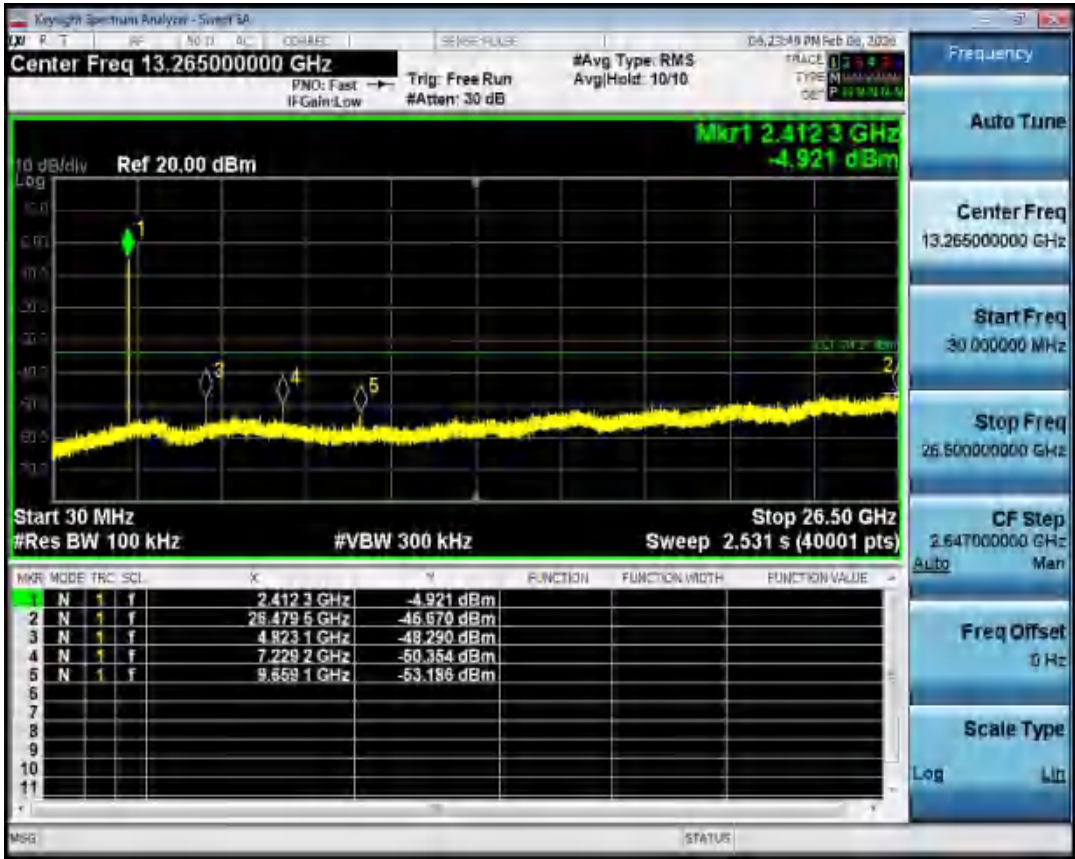
Band Edge NVNT n40 2452MHz Ant1 Emission

Conducted RF Spurious Emission

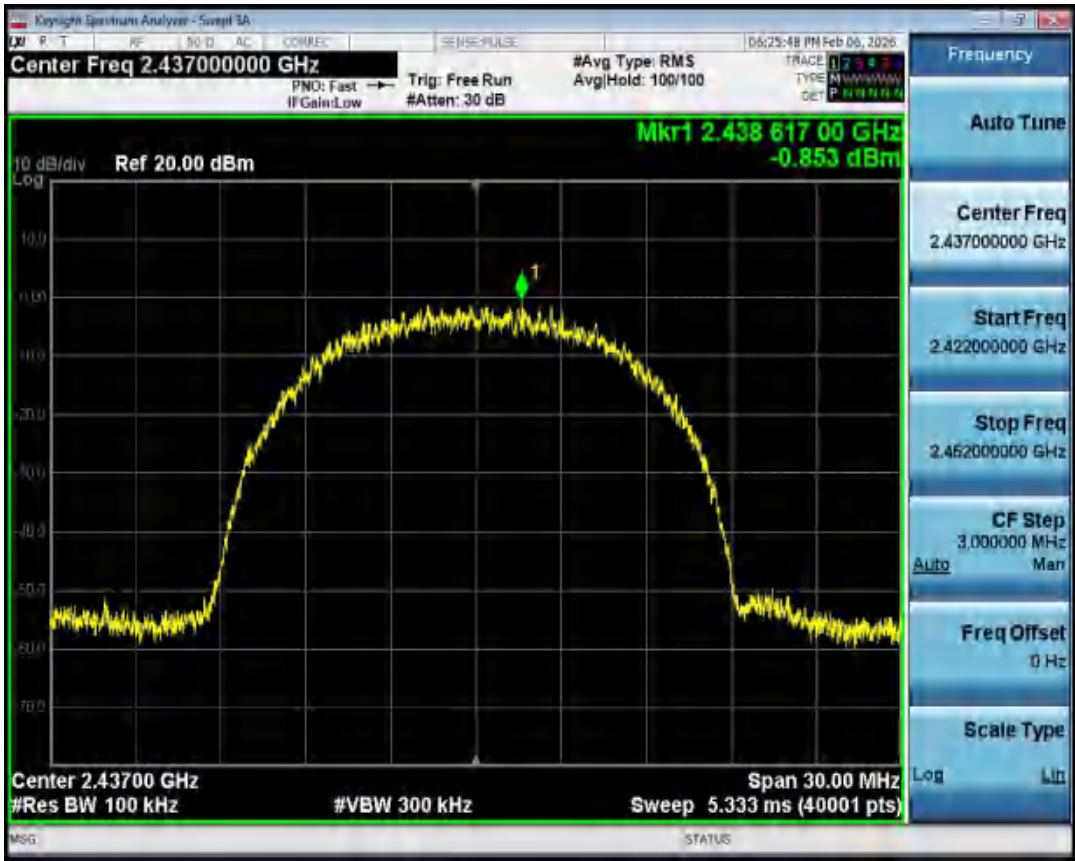
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.45	-30	Pass
NVNT	b	2437	Ant1	-40.46	-30	Pass
NVNT	b	2462	Ant1	-38.71	-30	Pass
NVNT	g	2412	Ant1	-37.18	-30	Pass
NVNT	g	2437	Ant1	-37.45	-30	Pass
NVNT	g	2462	Ant1	-36.31	-30	Pass
NVNT	n20	2412	Ant1	-31.03	-30	Pass
NVNT	n20	2437	Ant1	-34.61	-30	Pass
NVNT	n20	2462	Ant1	-35.24	-30	Pass
NVNT	n40	2422	Ant1	-31.07	-30	Pass
NVNT	n40	2437	Ant1	-32.24	-30	Pass
NVNT	n40	2452	Ant1	-31.62	-30	Pass



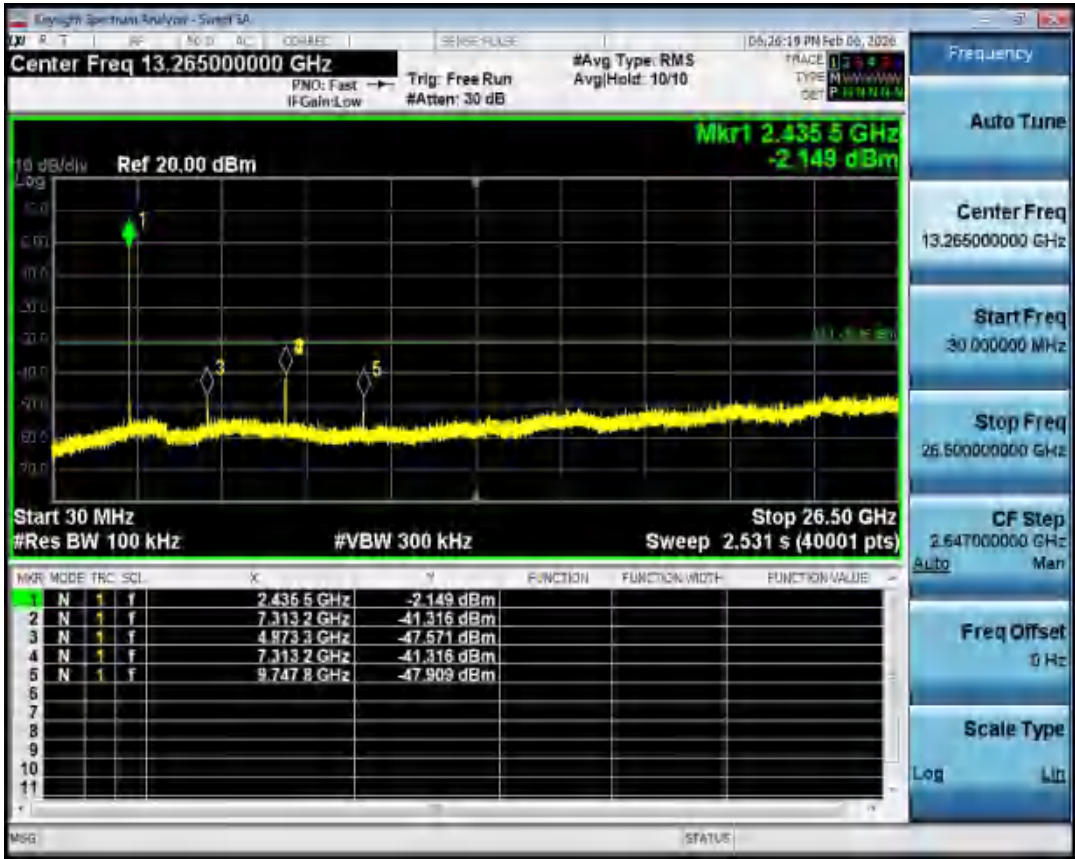
Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



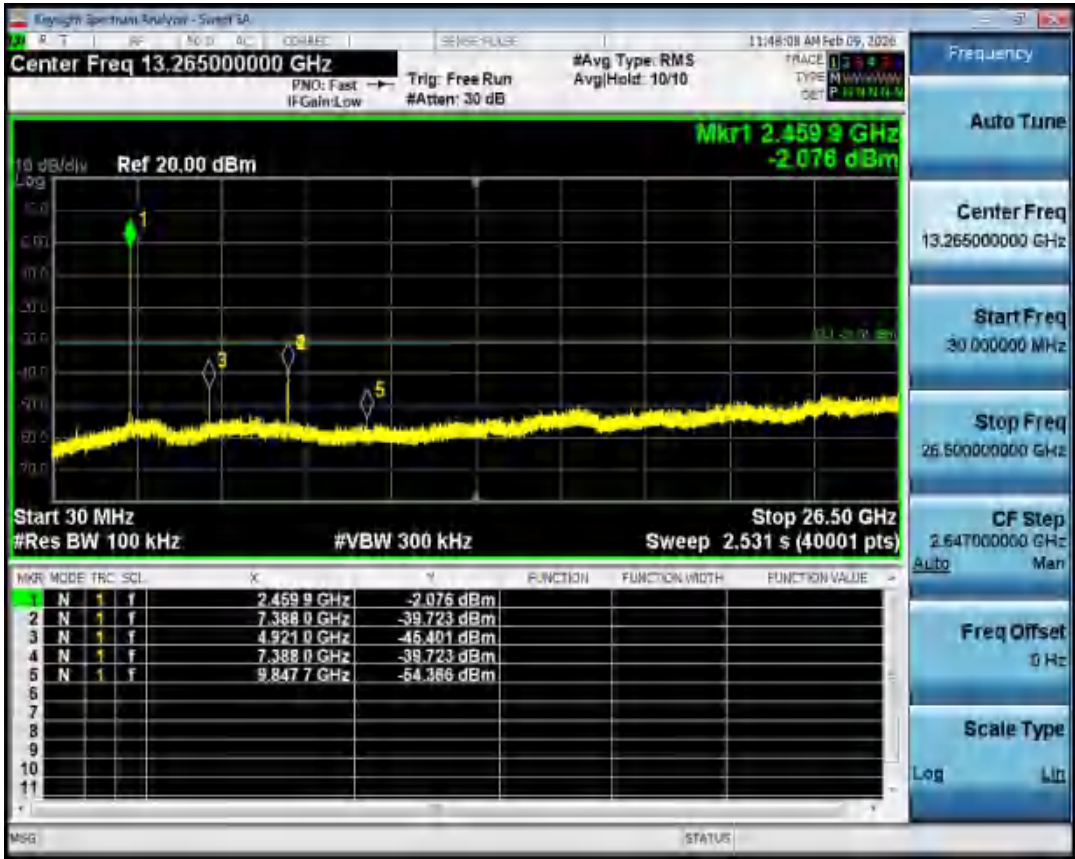
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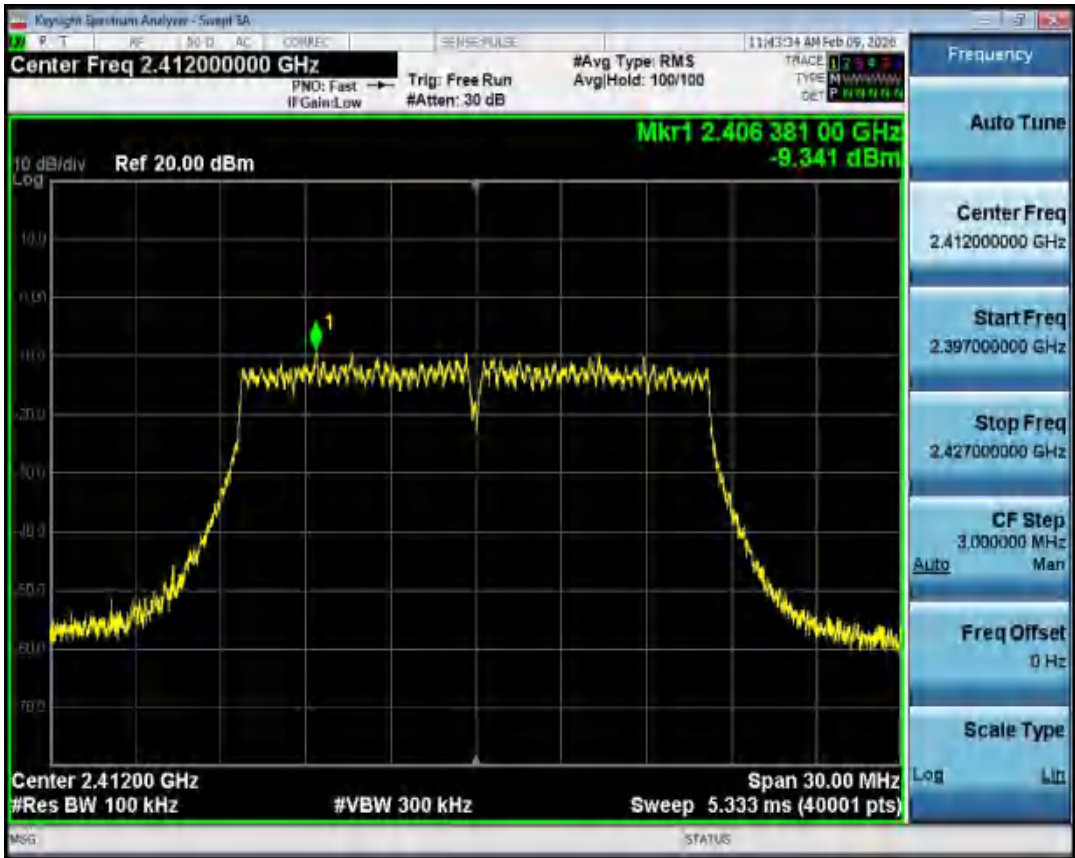
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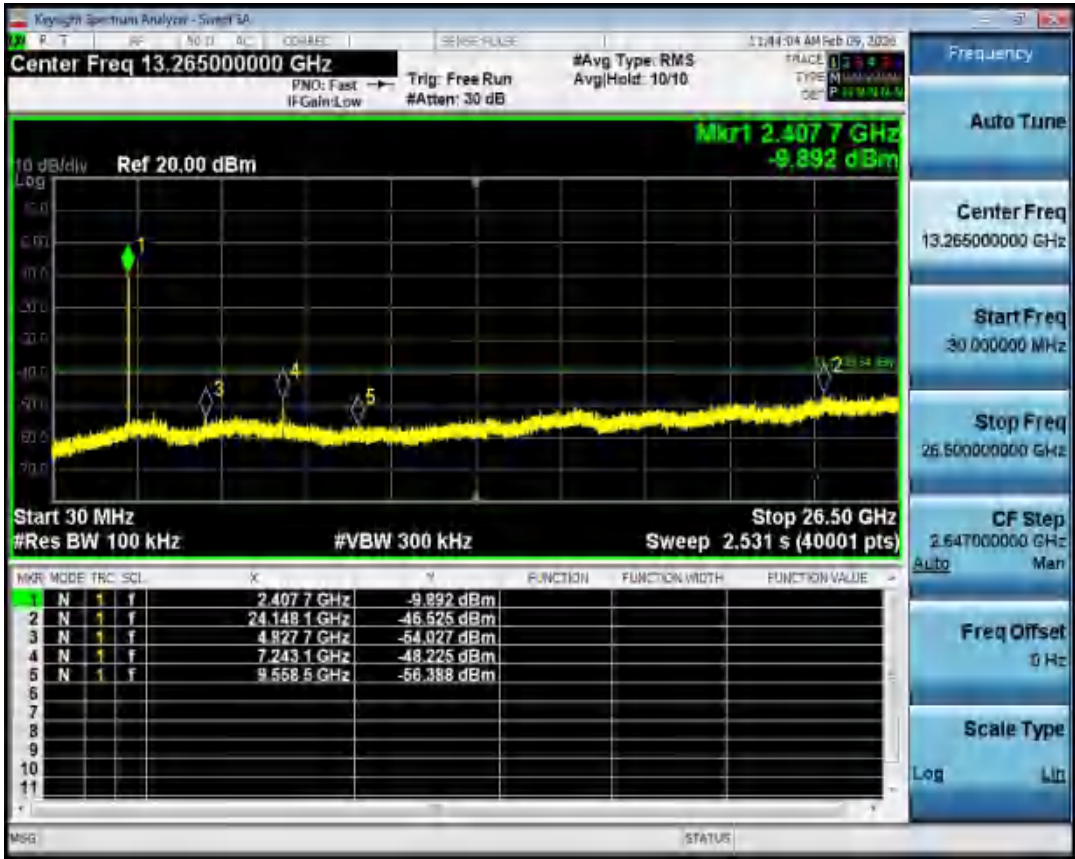
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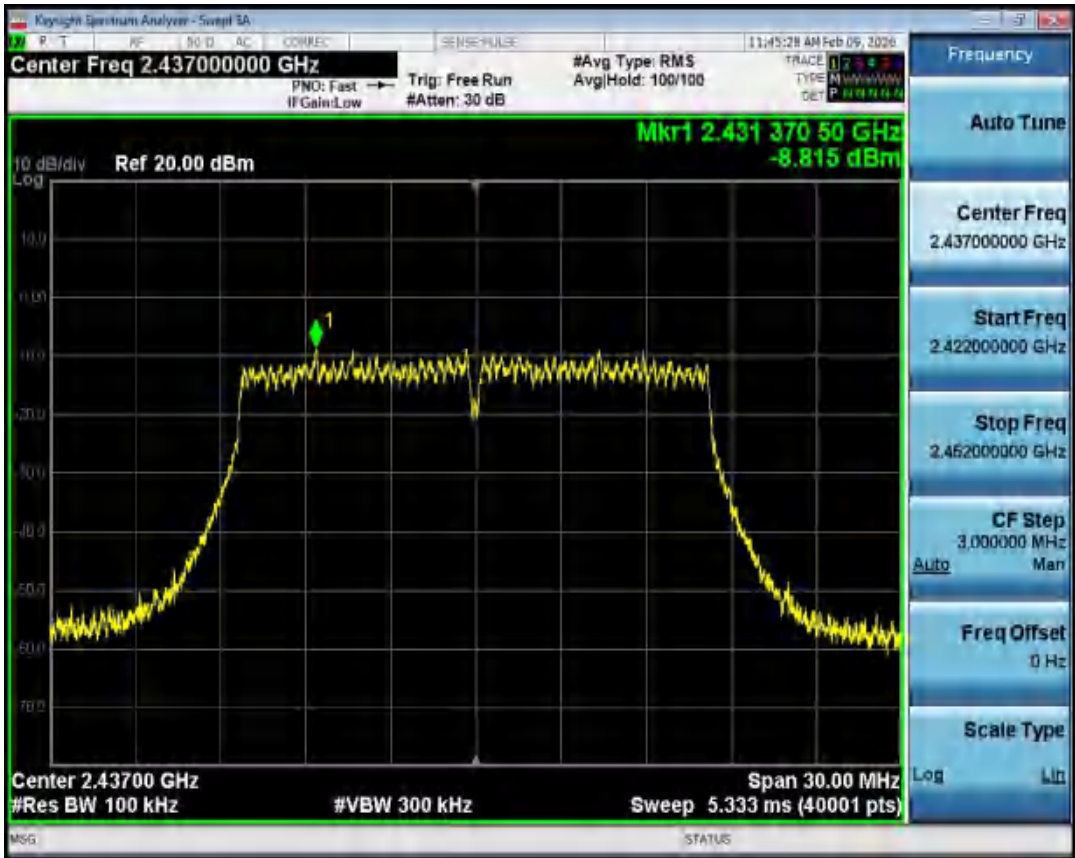
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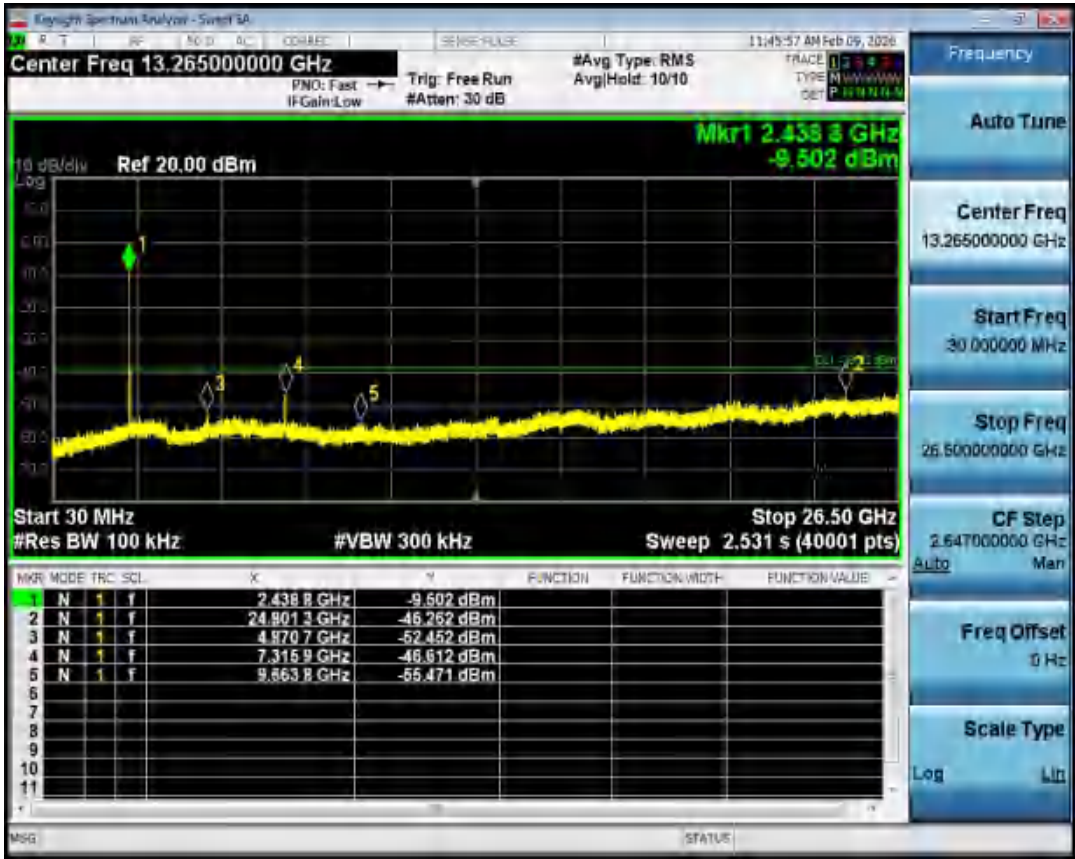
Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



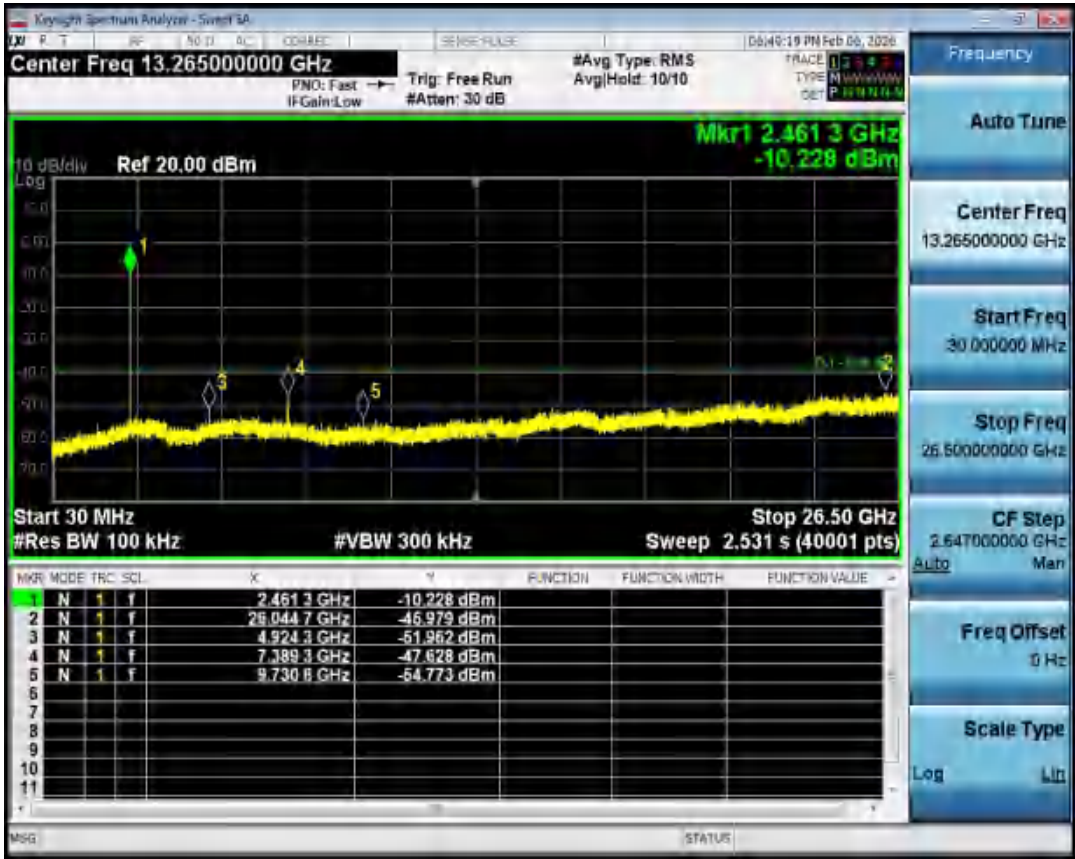
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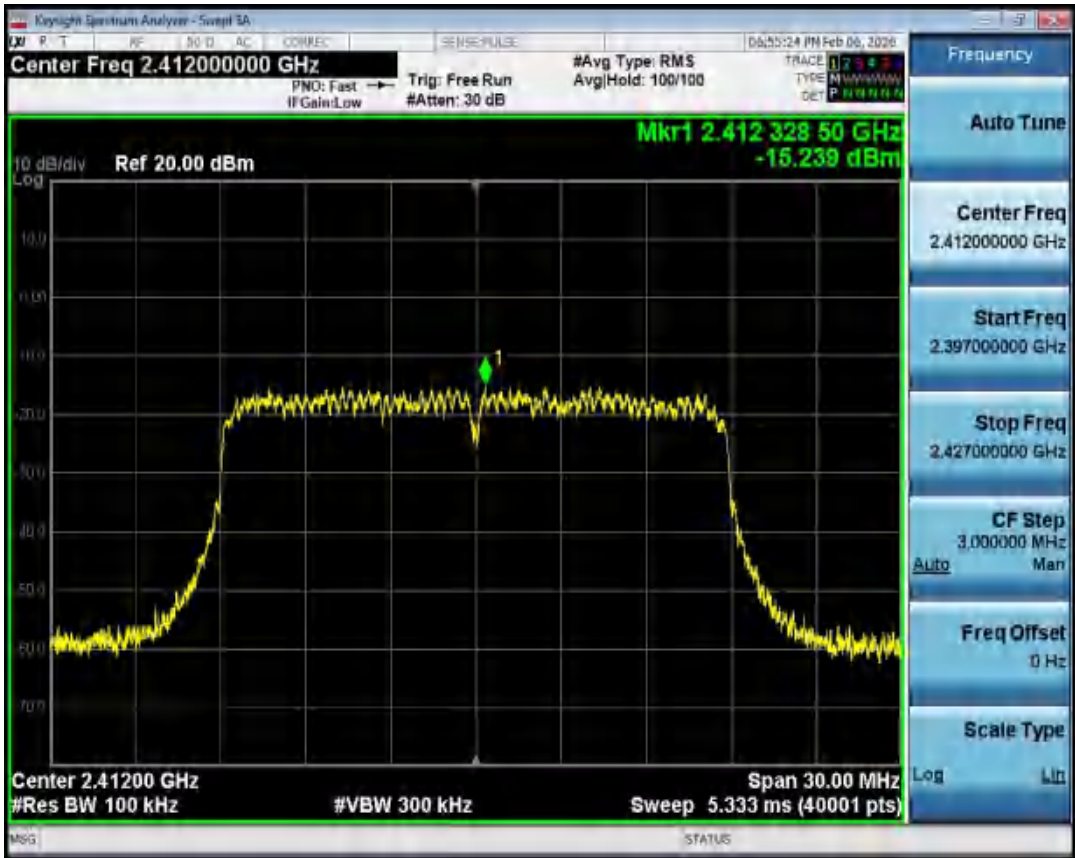
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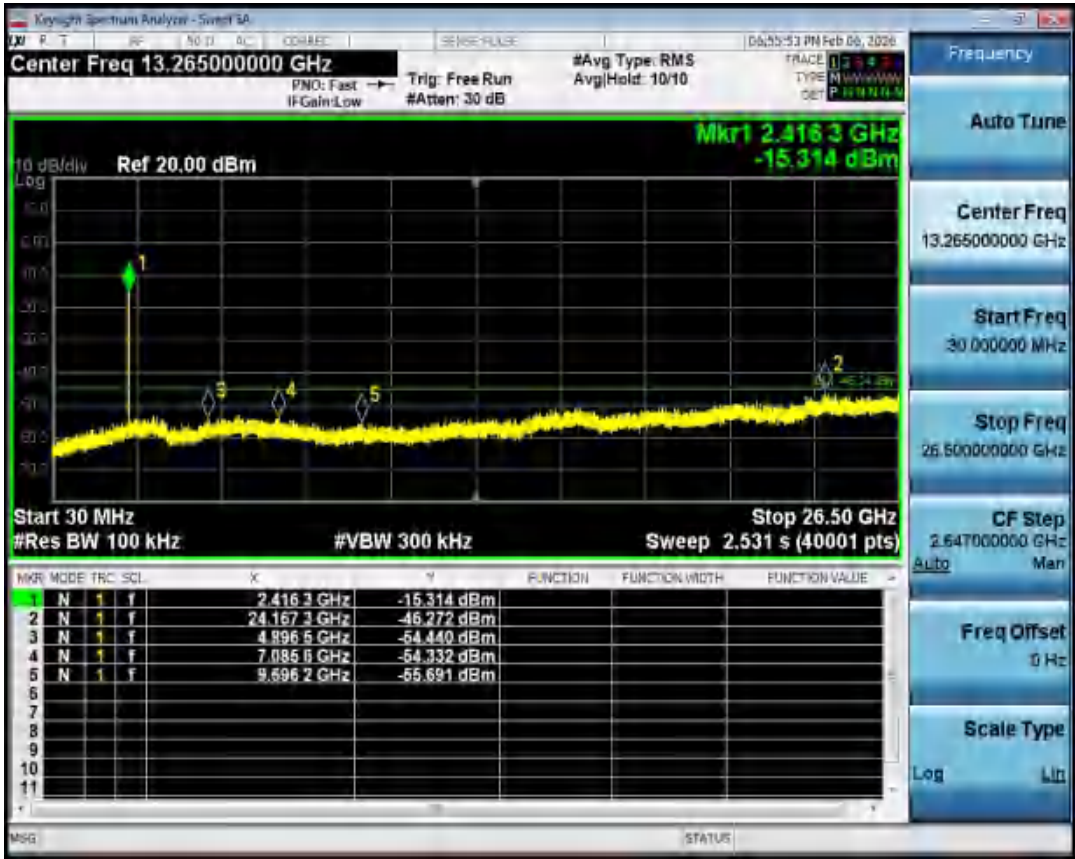
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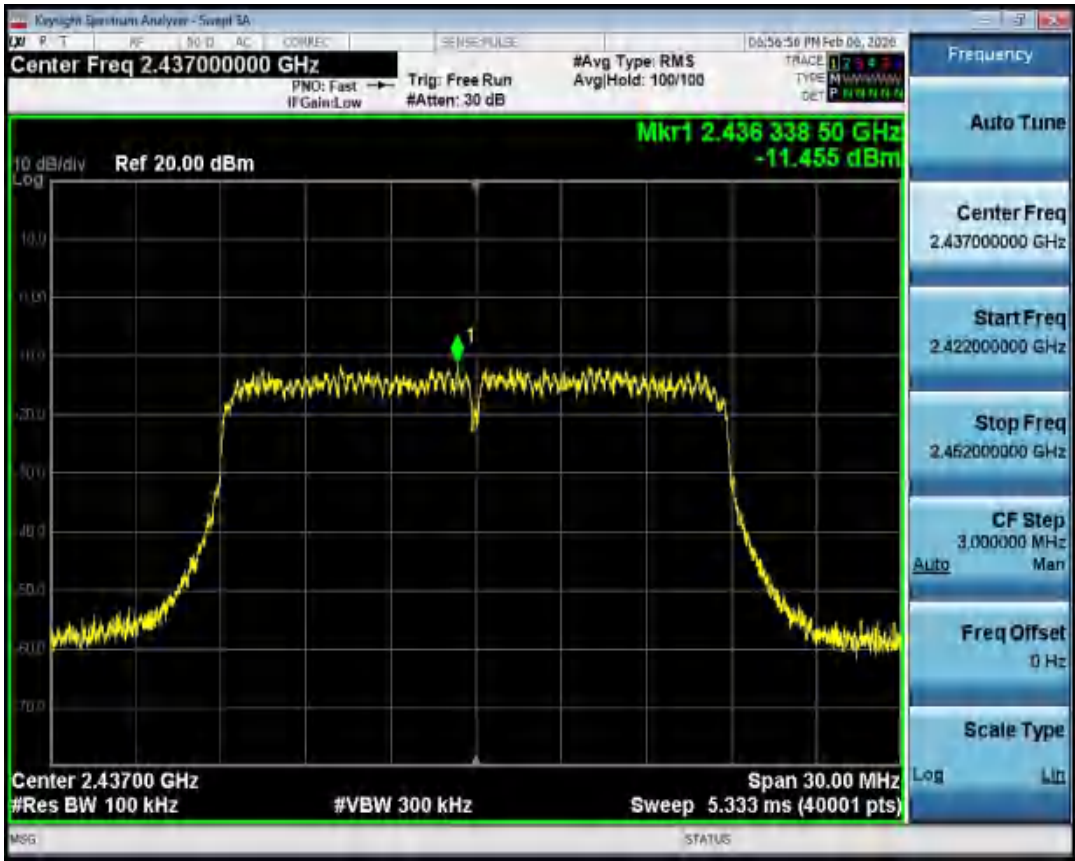
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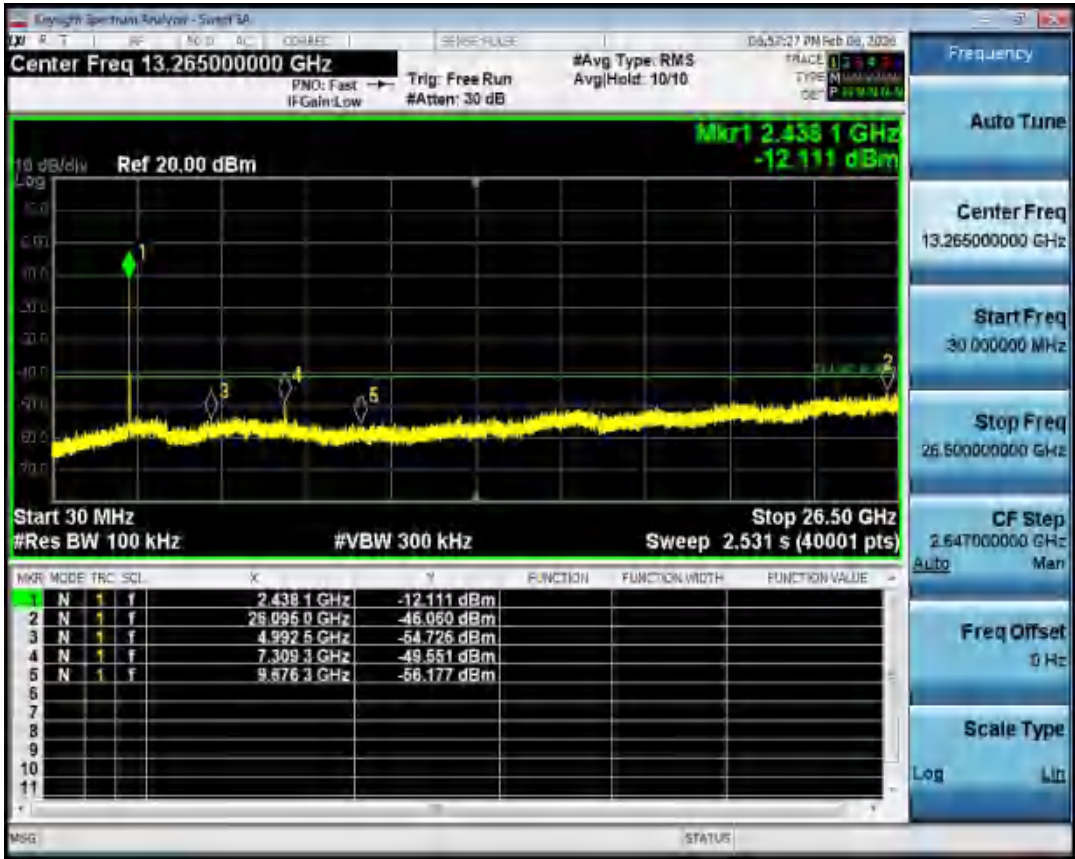
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



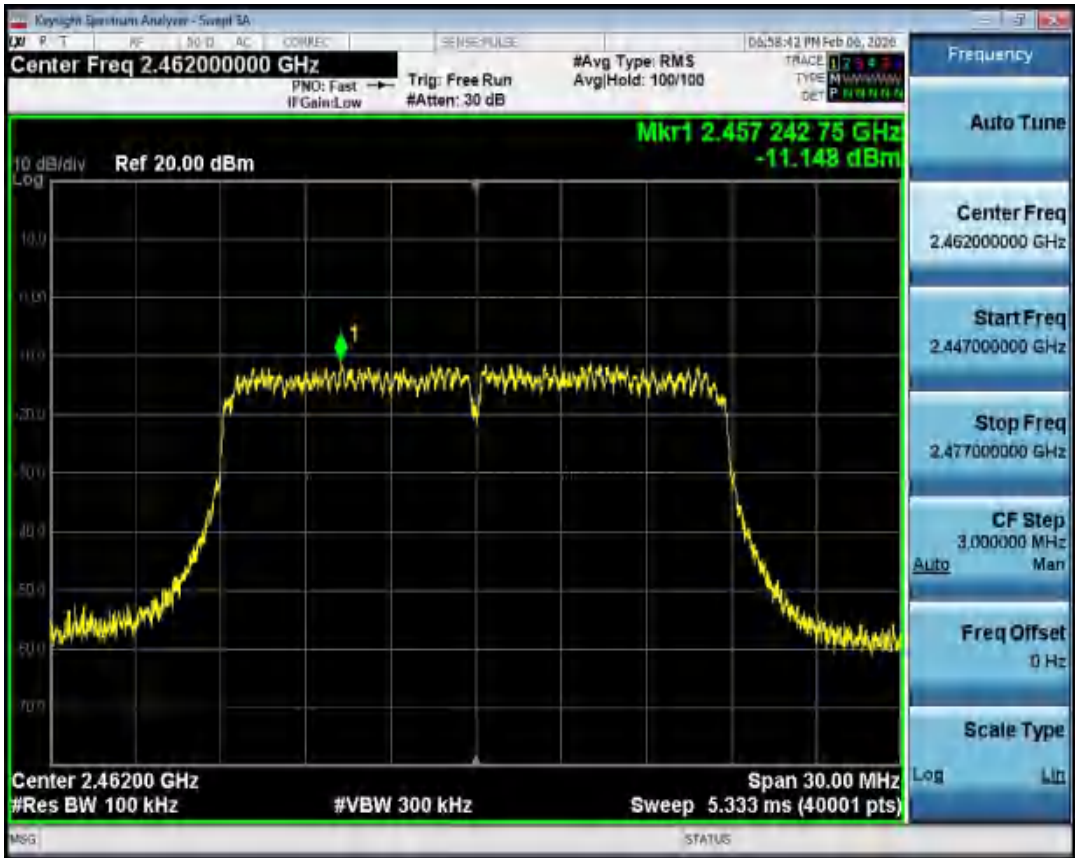
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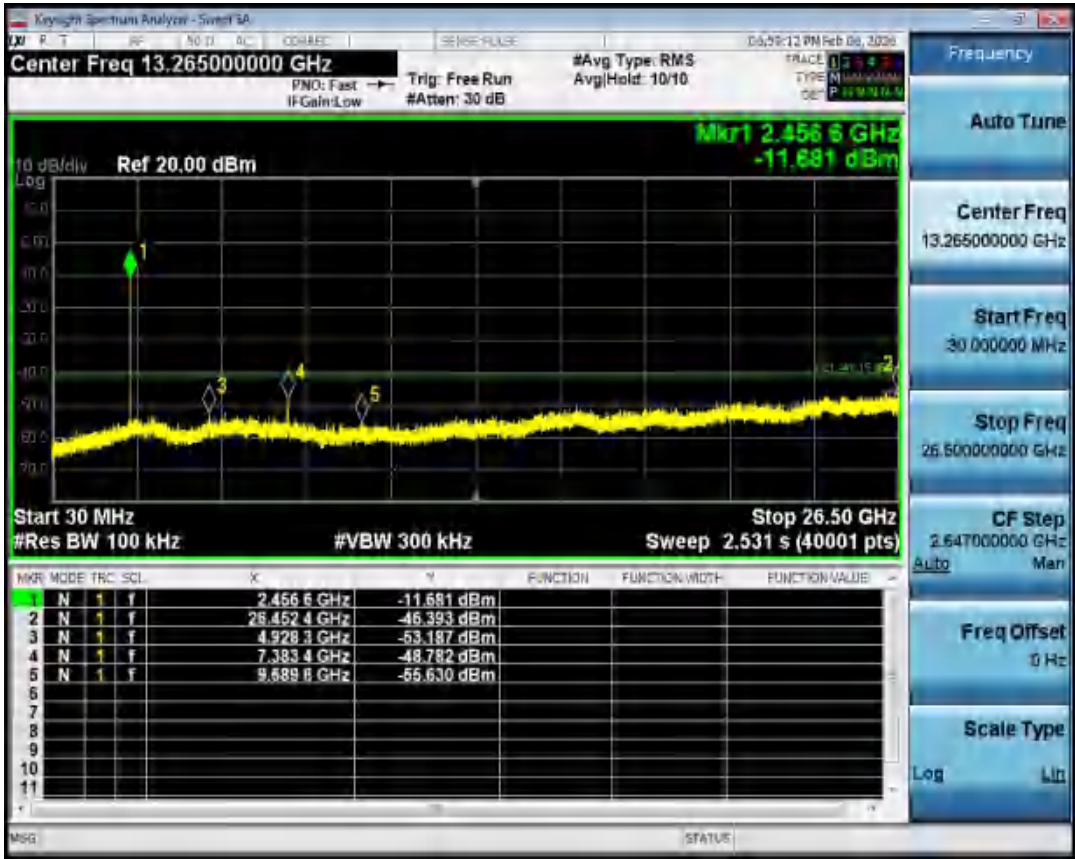
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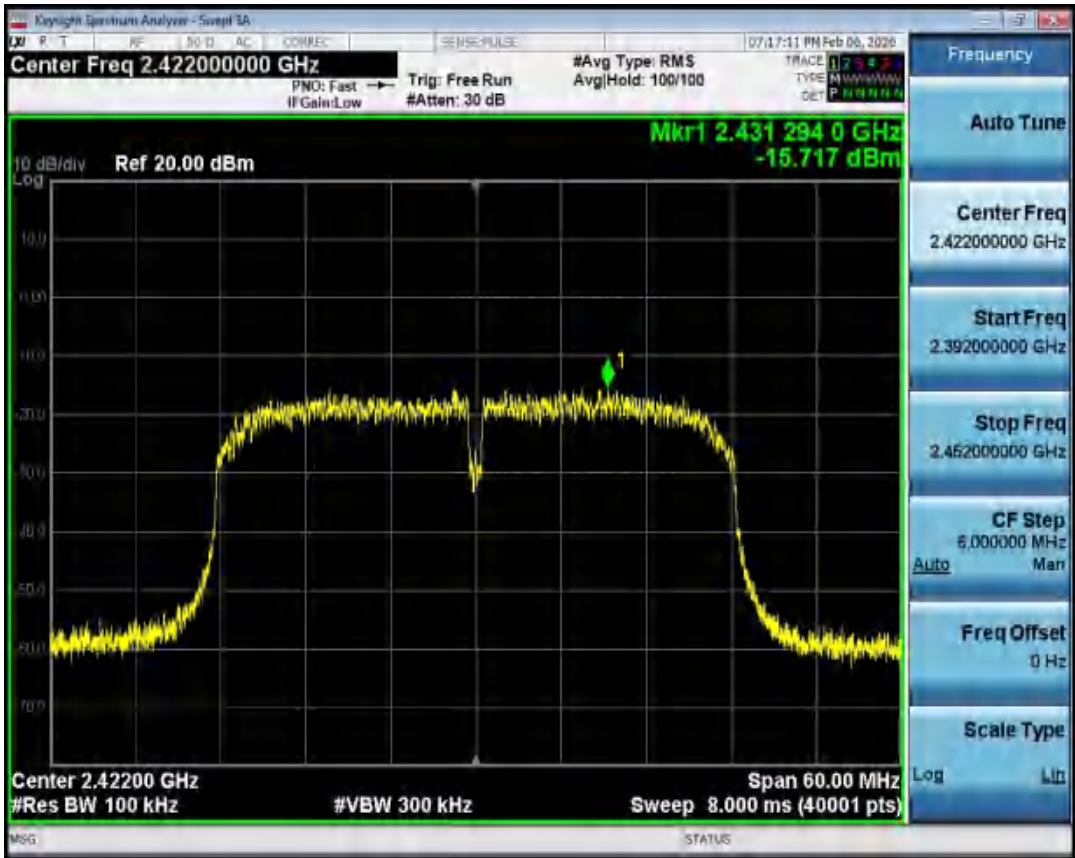
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



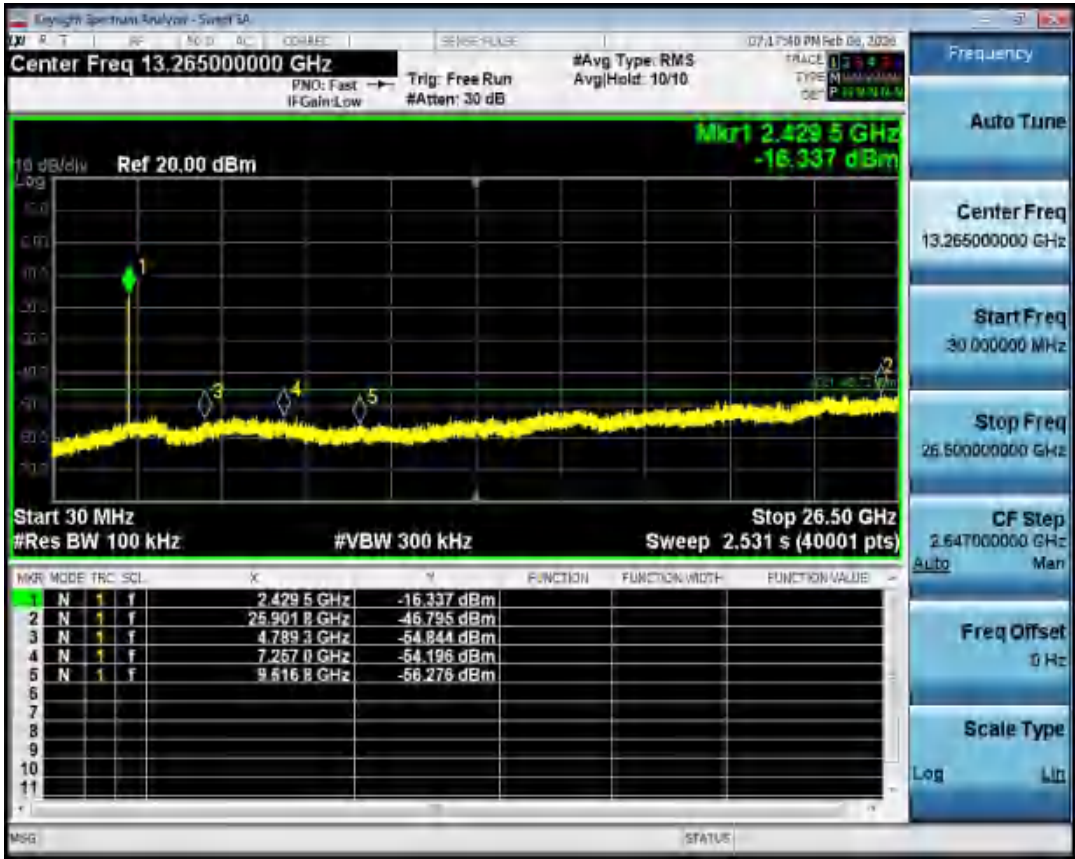
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



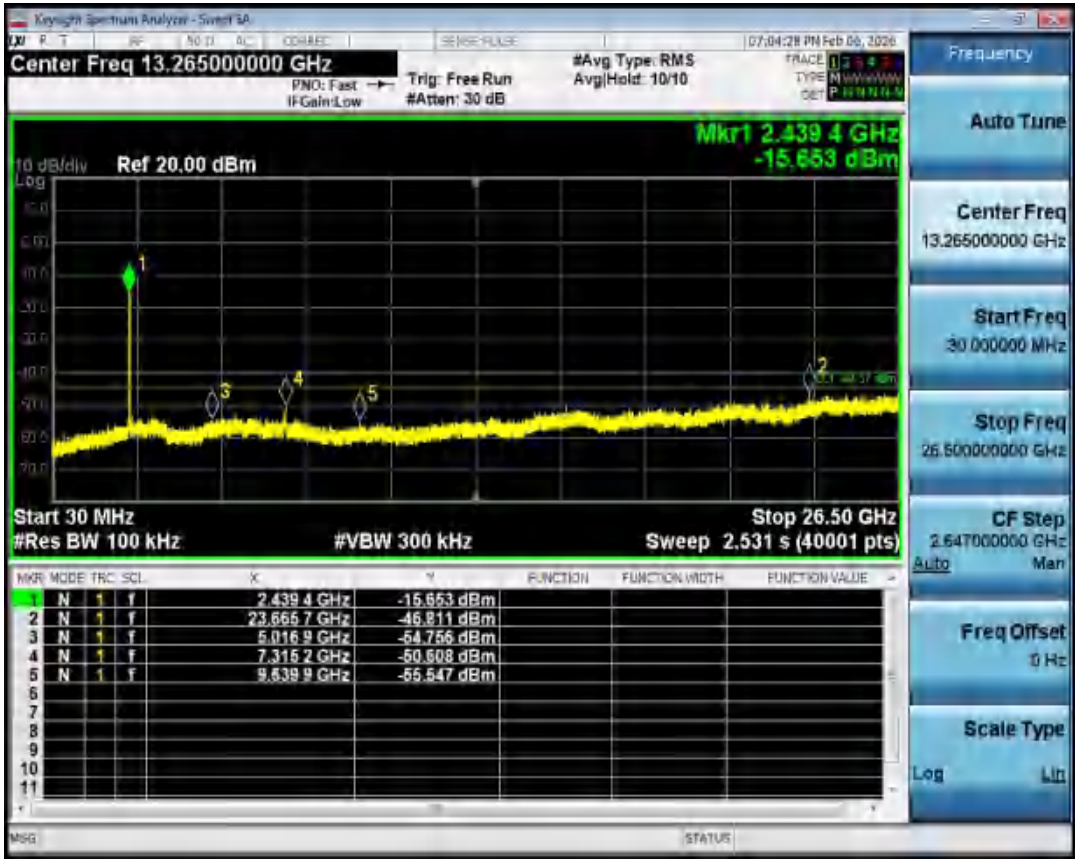
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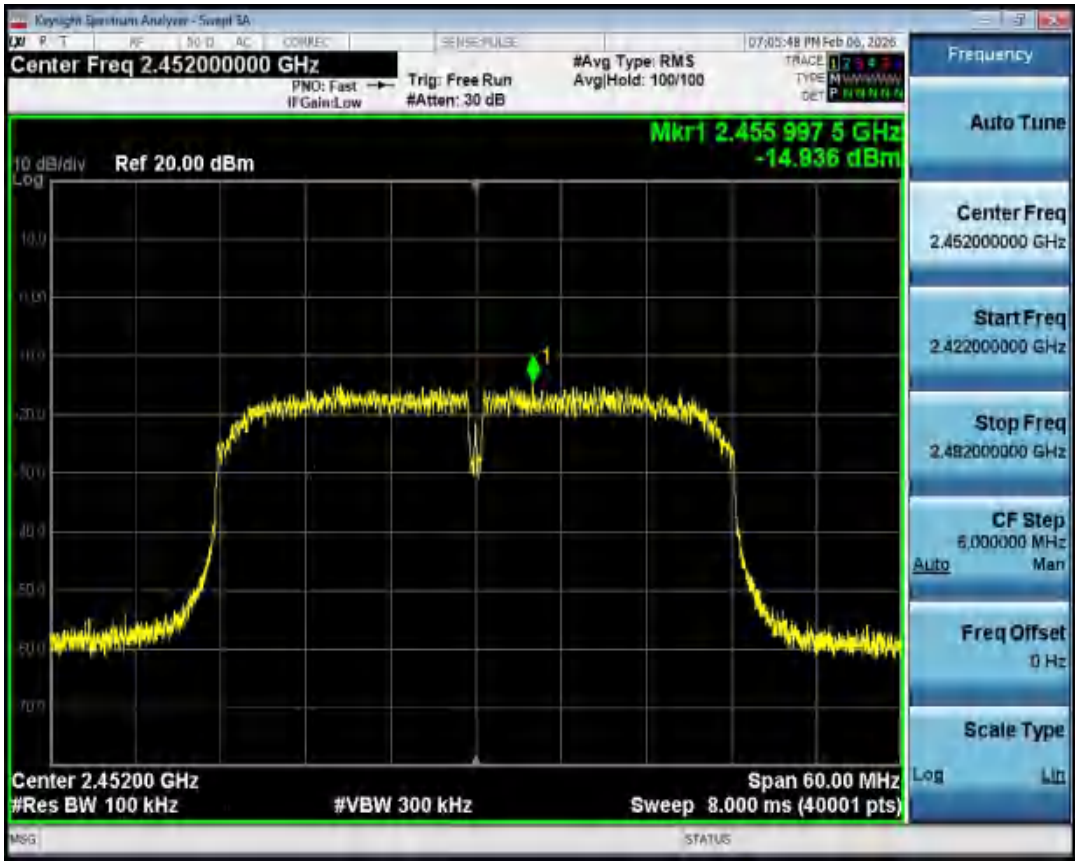
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission