Table of Contents

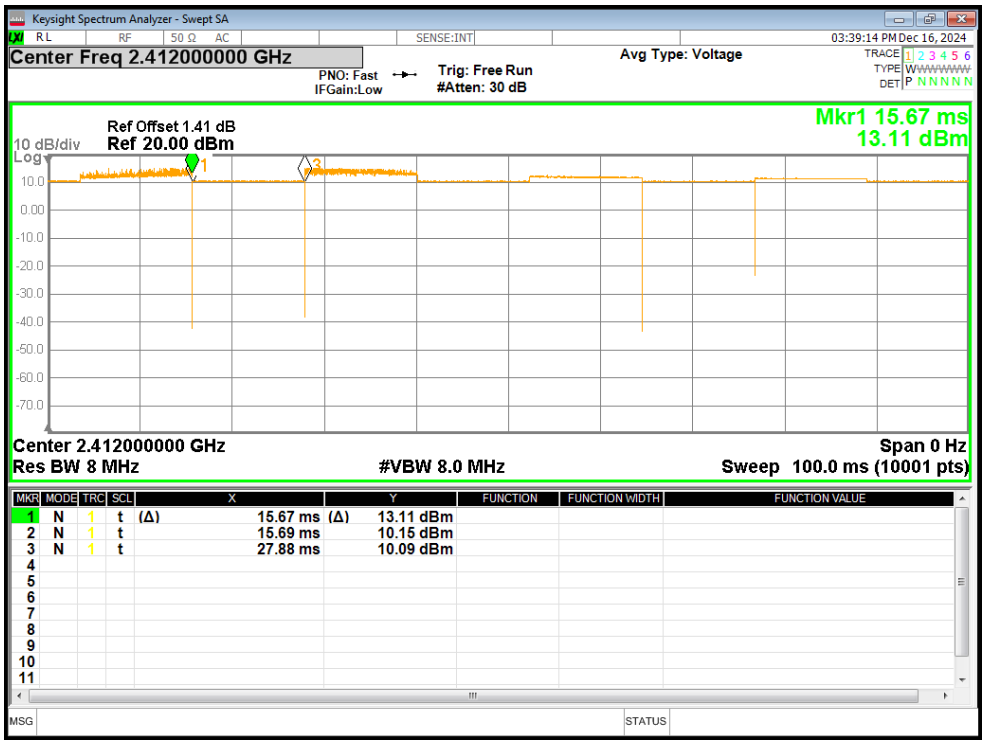
FCC_WIFI(Part15.247) Test Data

1.Duty Cycle

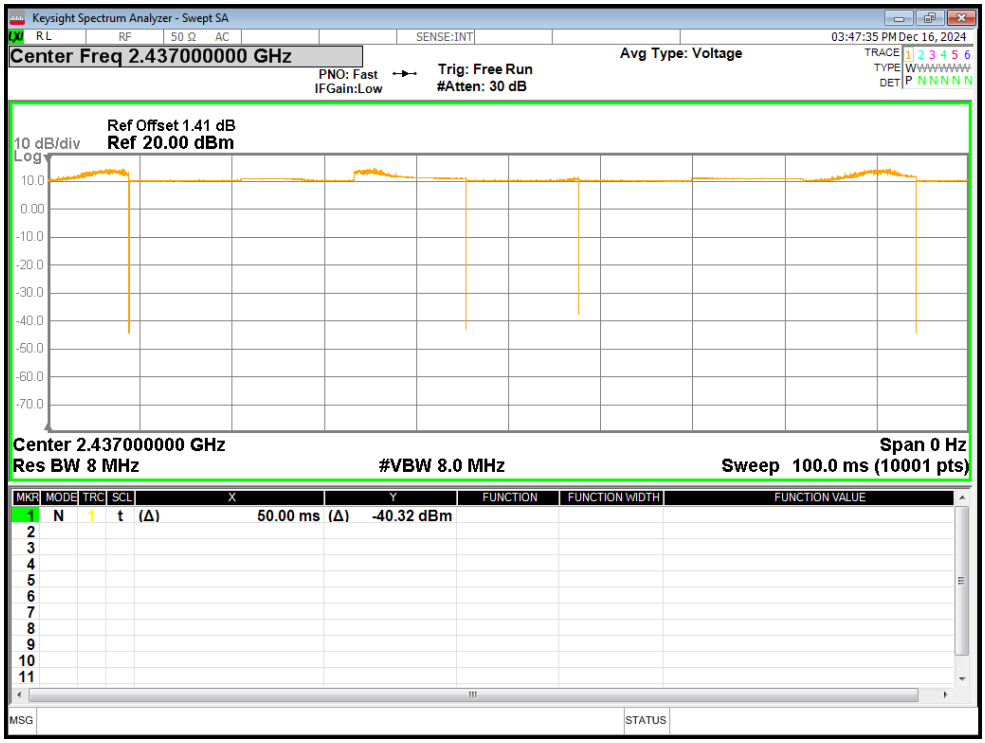
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	2412	99.84	0	0.08
b	2437	99.95	0	0.03
b	2462	99.84	0	0.08
g	2412	80.24	0.96	0.49
g	2437	79.84	0.98	0.5
g	2462	80.16	0.96	0.5
n20	2412	79.08	1.02	0.53
n20	2437	79.08	1.02	0.53
n20	2462	78.66	1.04	0.53

Test Graphs

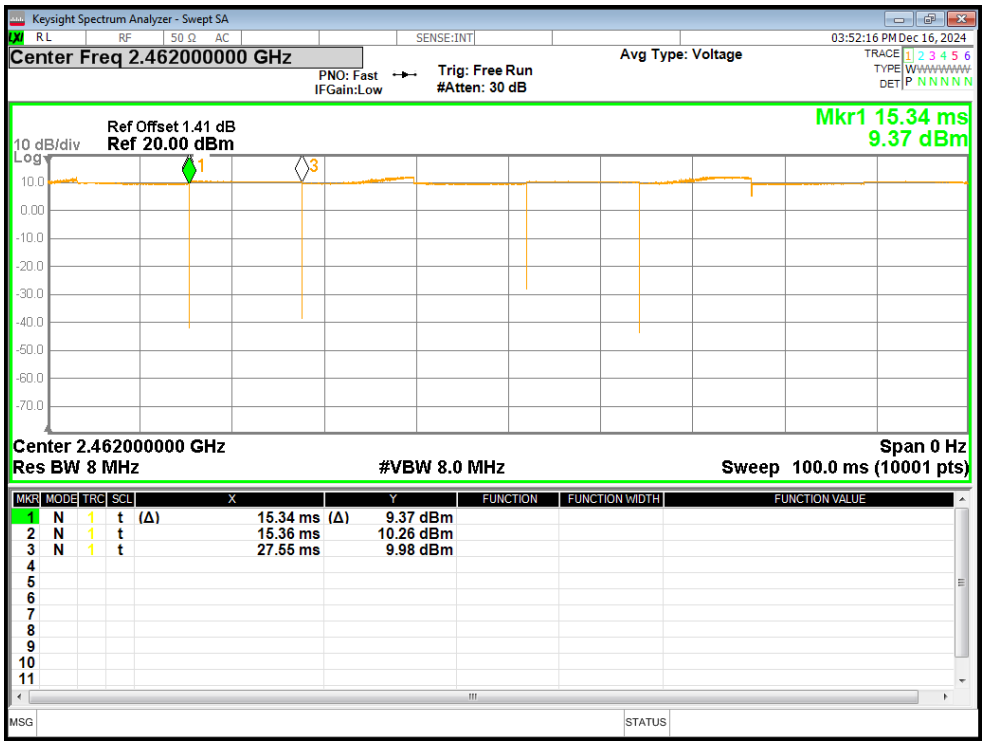
Duty Cycle NVNT b 2412MHz Ant1



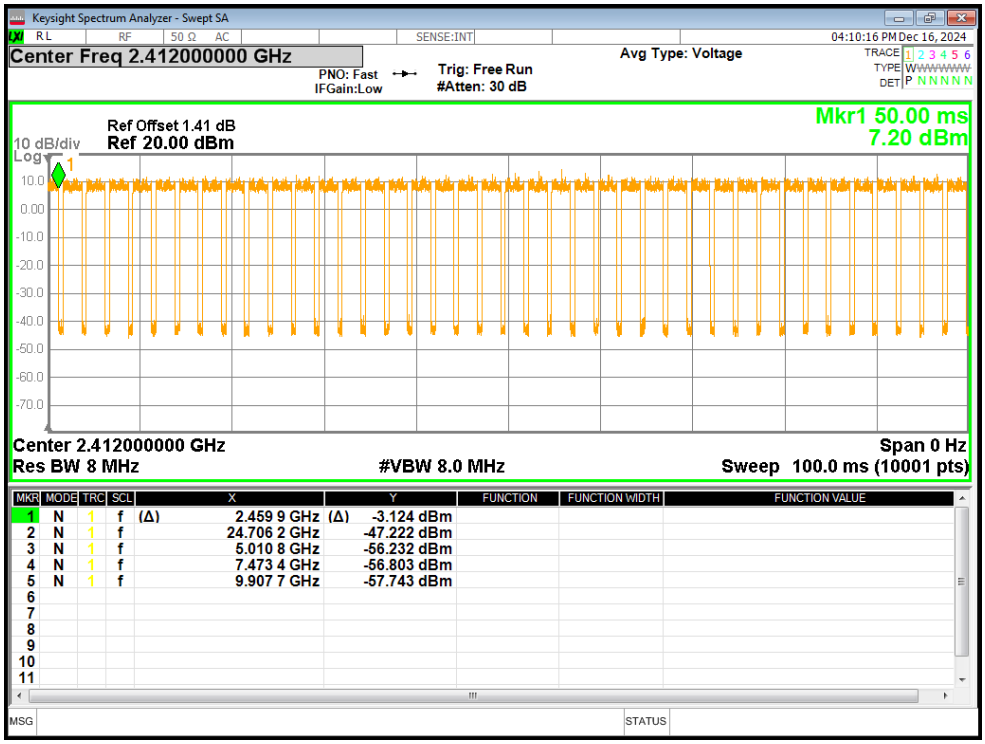
Duty Cycle NVNT b 2437MHz Ant1



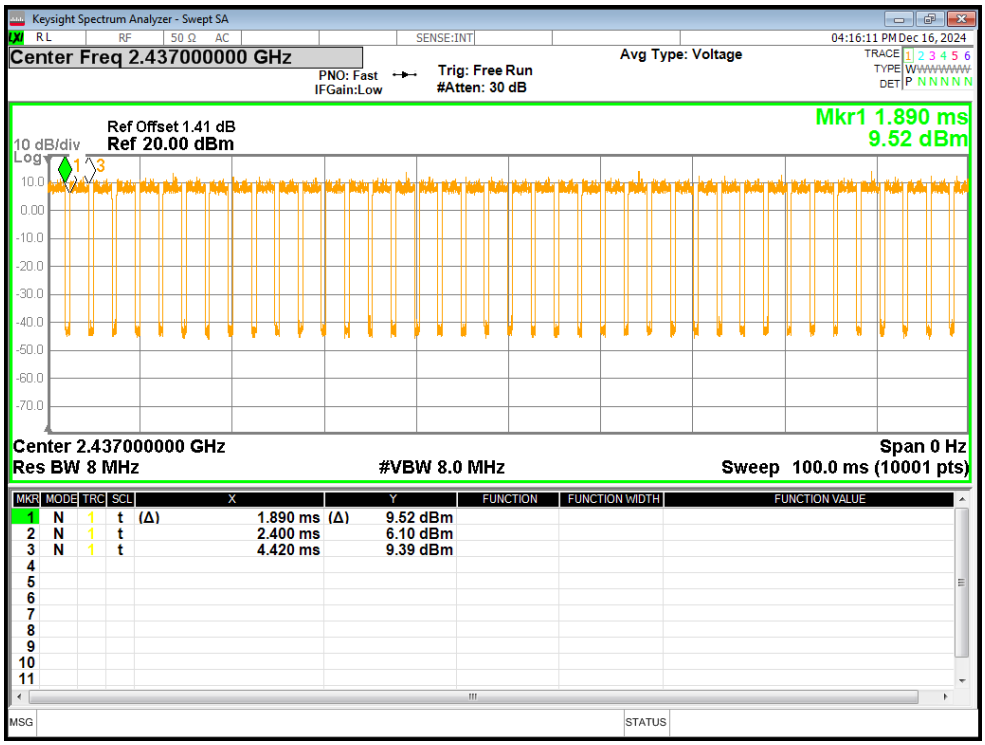
Duty Cycle NVNT b 2462MHz Ant1



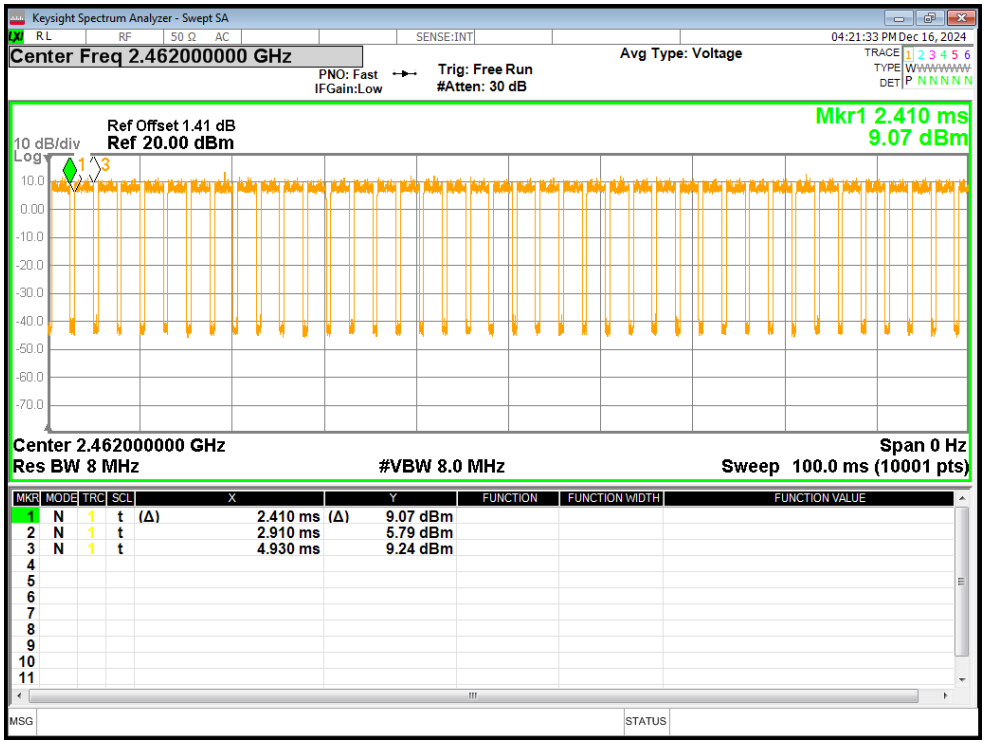
Duty Cycle NVNT g 2412MHz Ant1



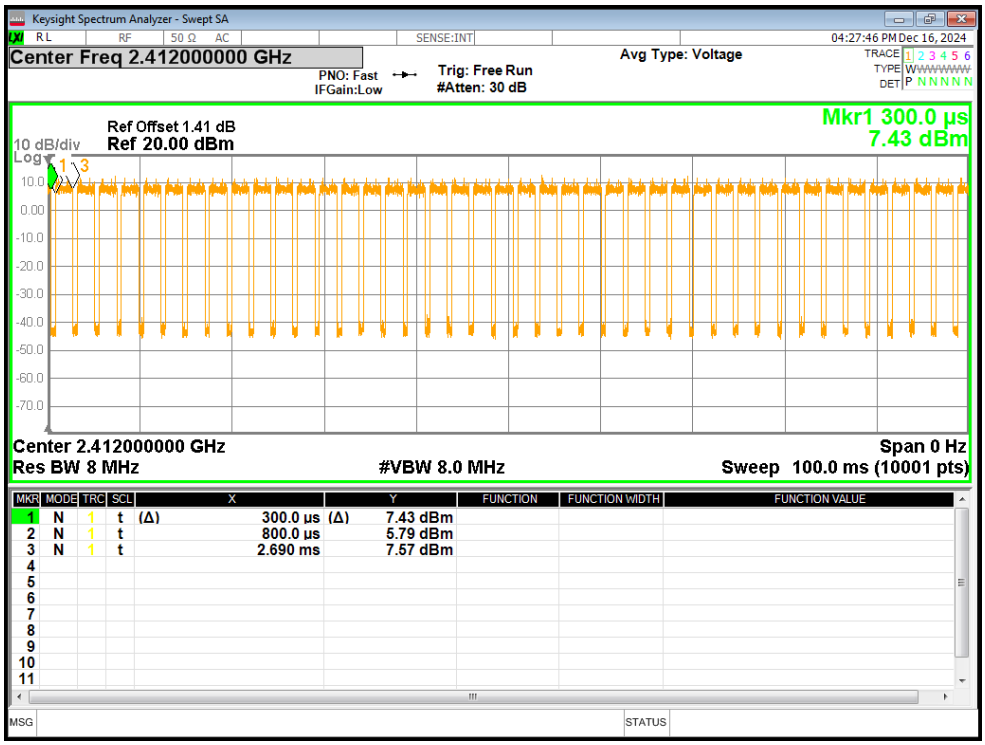
Duty Cycle NVNT g 2437MHz Ant1



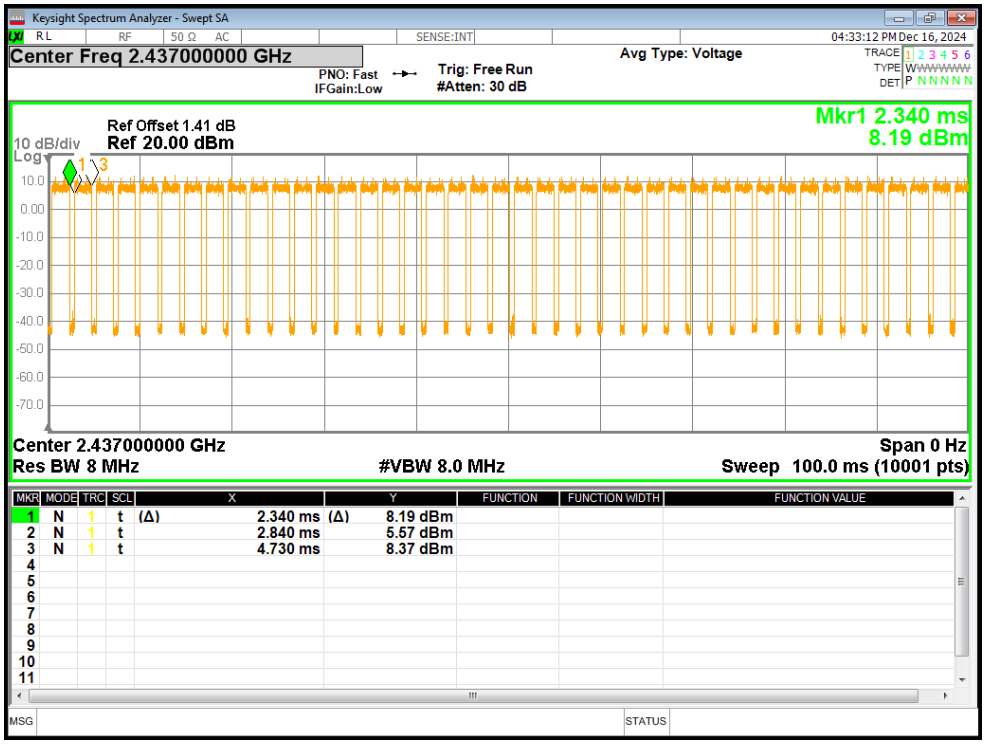
Duty Cycle NVNT g 2462MHz Ant1



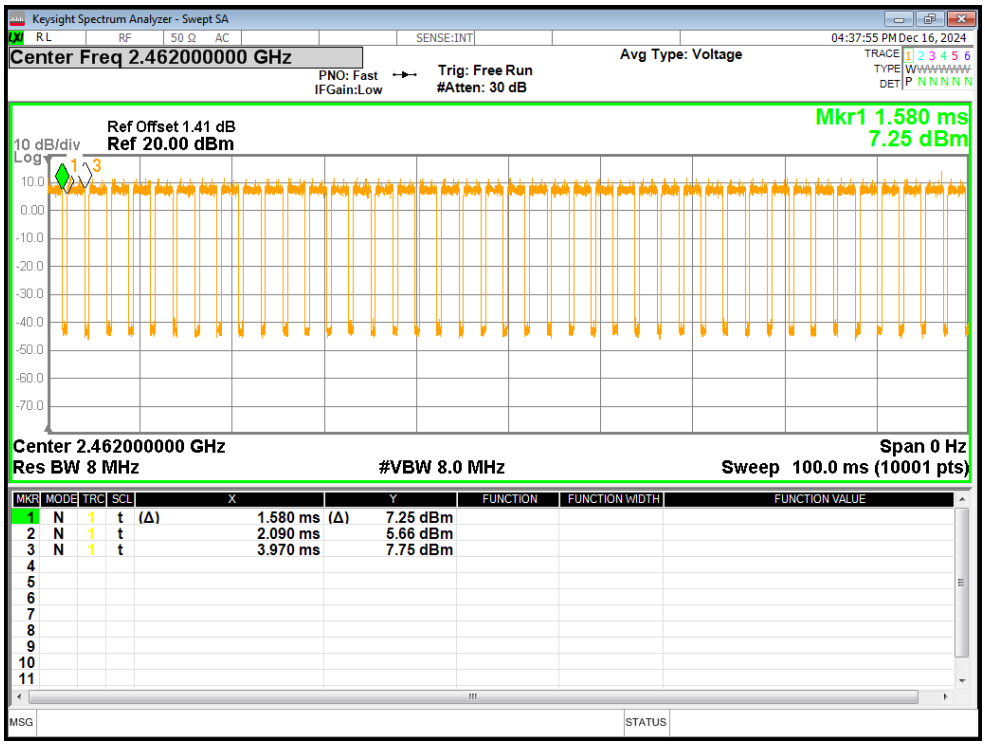
Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



Duty Cycle NVNT n20 2462MHz Ant1



2.Maximum Peak Conducted Output Power

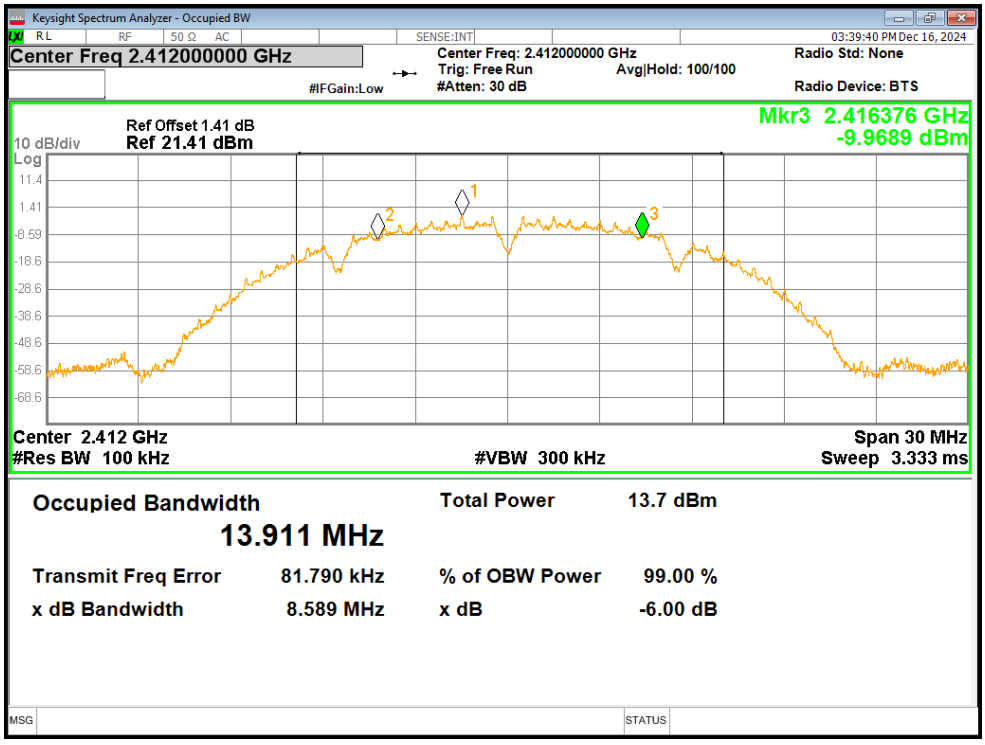
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	8.71	30	Pass
b	2437	8.6	30	Pass
b	2462	7.9	30	Pass
g	2412	7.92	30	Pass
g	2437	7.64	30	Pass
g	2462	7.39	30	Pass
n20	2412	7.44	30	Pass
n20	2437	7.55	30	Pass
n20	2462	7.21	30	Pass

3.-6dB Bandwidth

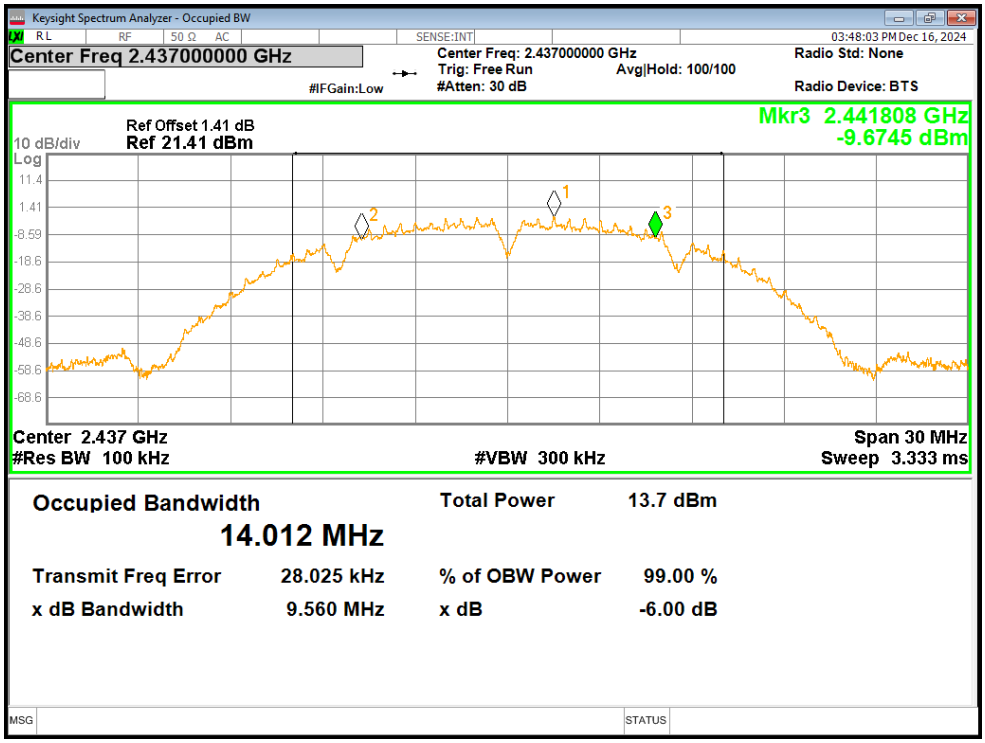
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	8.589	0.5	Pass
b	2437	9.56	0.5	Pass
b	2462	9.559	0.5	Pass
g	2412	15.839	0.5	Pass
g	2437	14.396	0.5	Pass
g	2462	10.427	0.5	Pass
n20	2412	14.952	0.5	Pass
n20	2437	12.766	0.5	Pass
n20	2462	13.37	0.5	Pass

Test Graphs

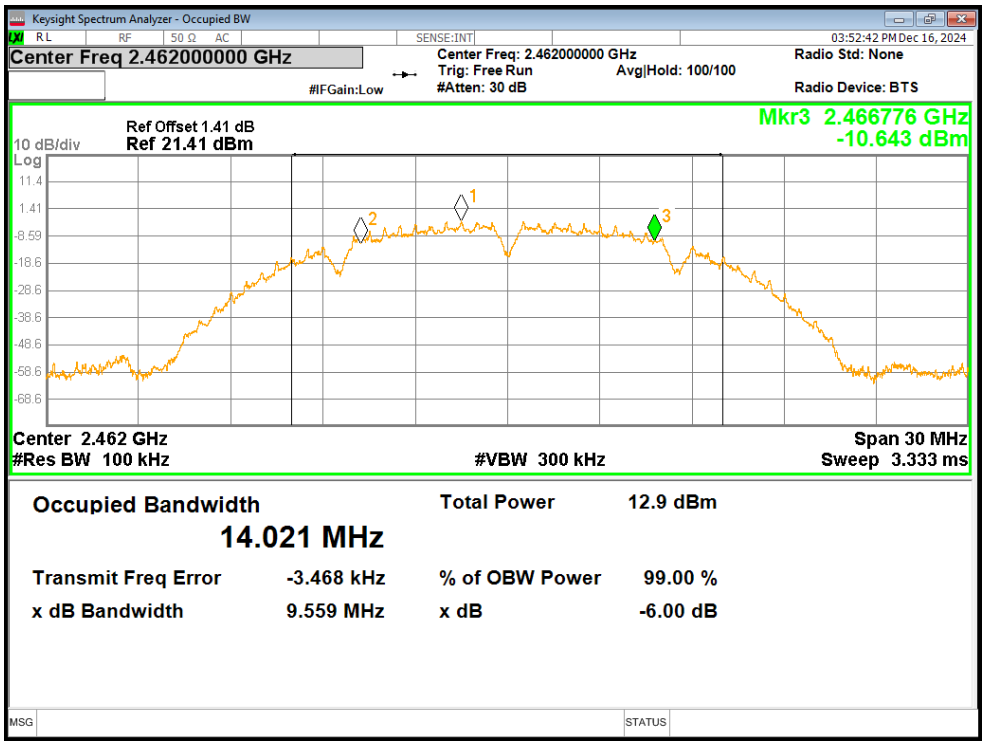
-6dB Bandwidth NVNT b 2412MHz Ant1



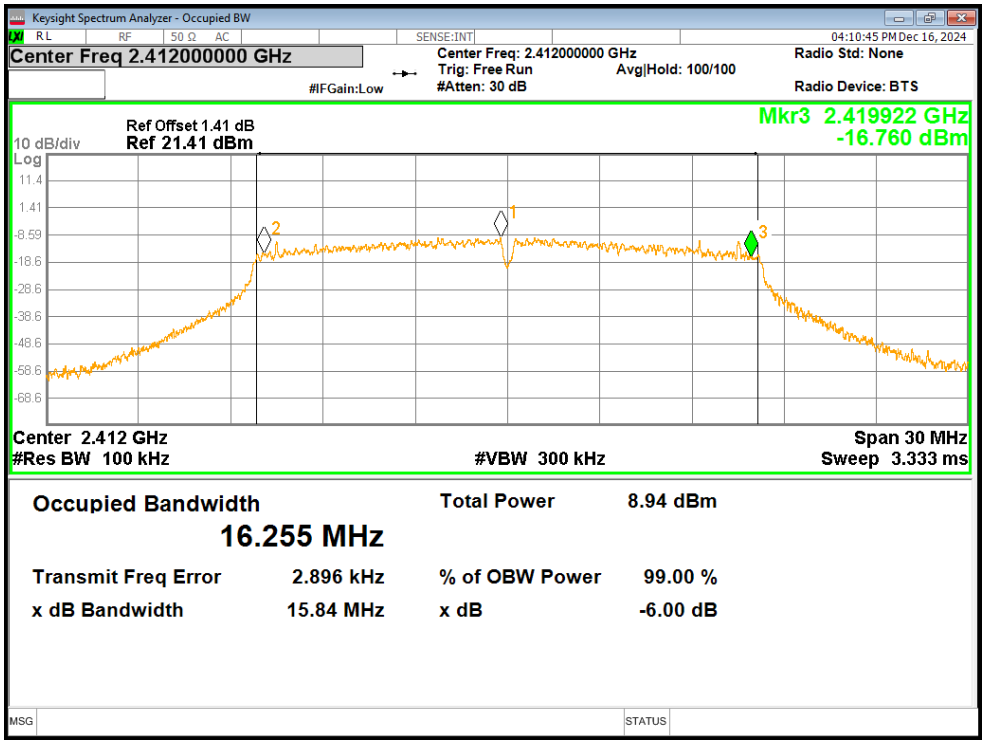
-6dB Bandwidth NVNT b 2437MHz Ant1



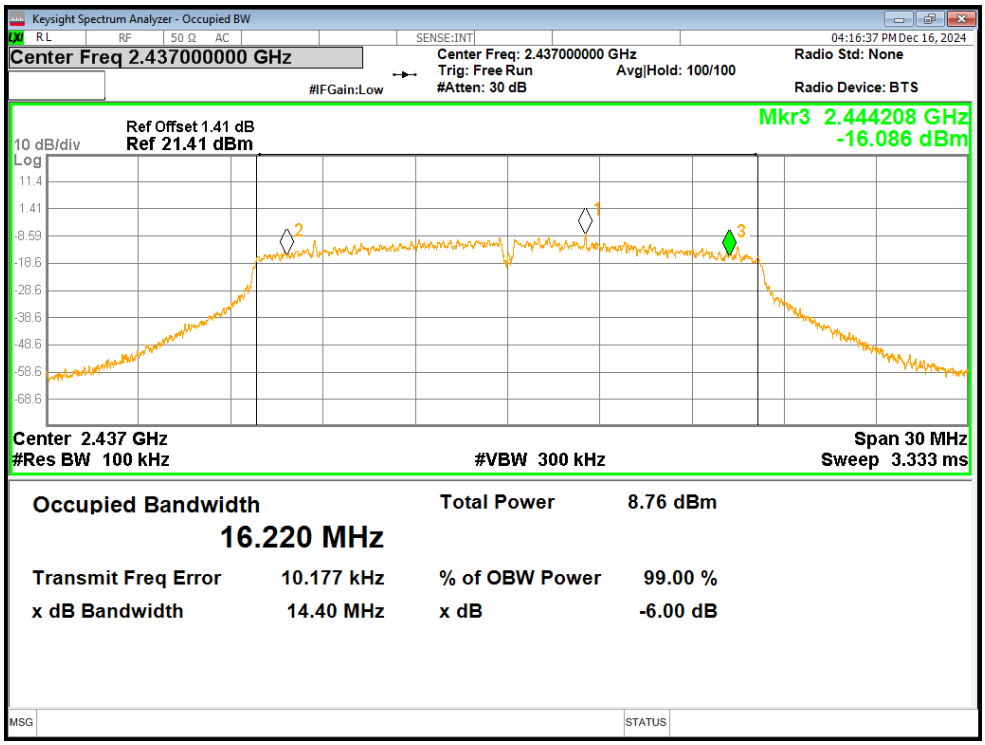
-6dB Bandwidth NVNT b 2462MHz Ant1



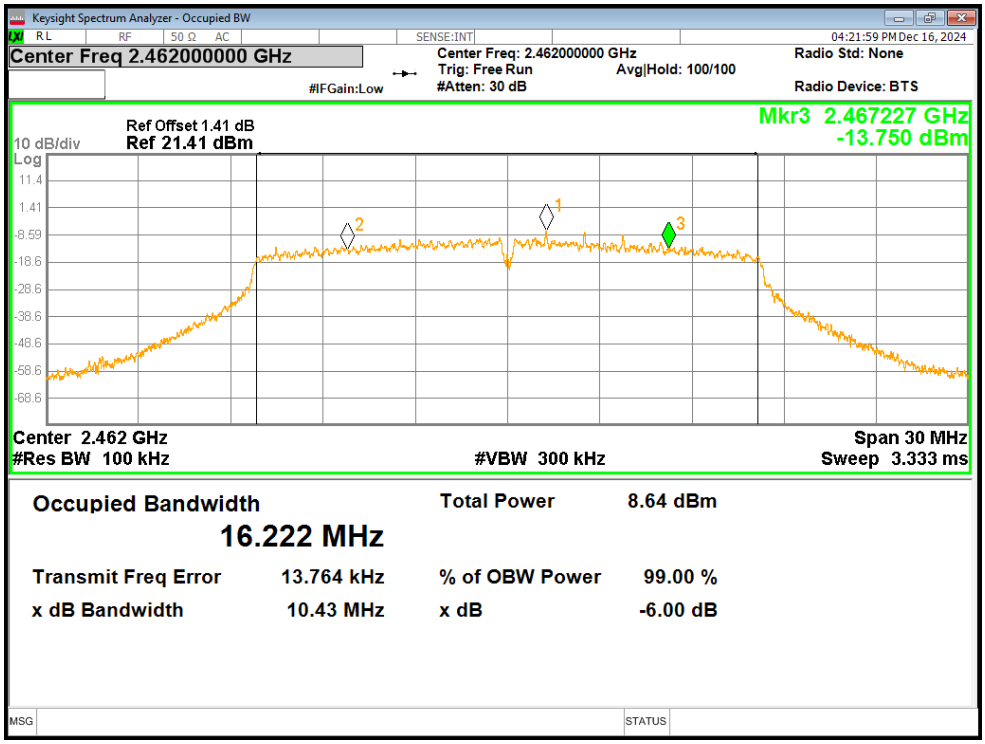
-6dB Bandwidth NVNT g 2412MHz Ant1



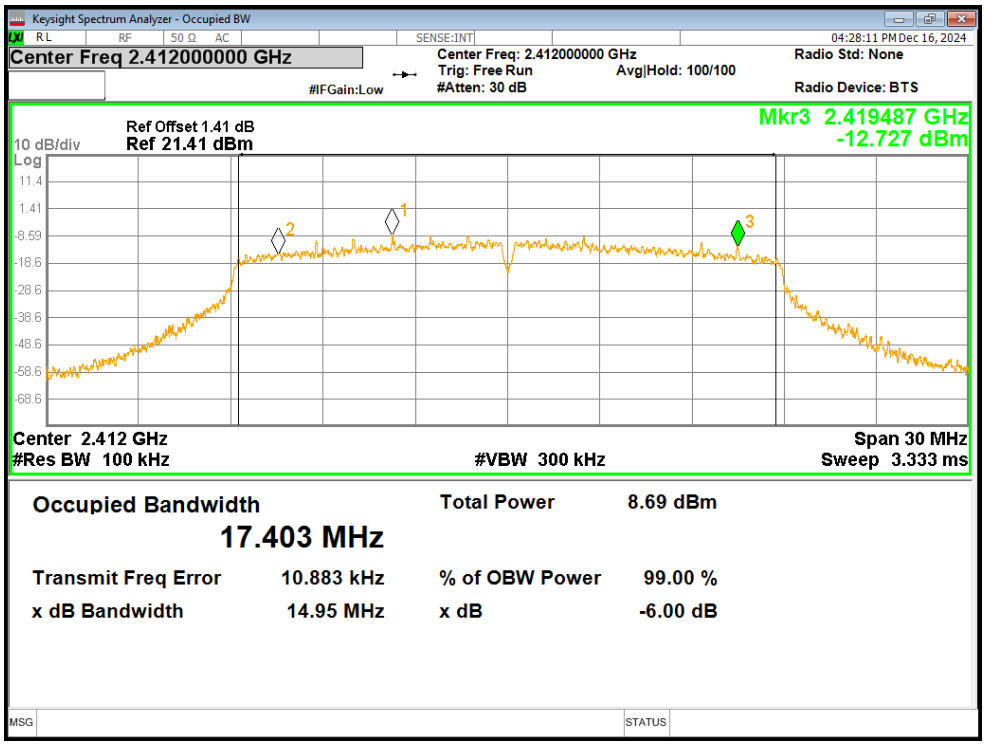
-6dB Bandwidth NVNT g 2437MHz Ant1



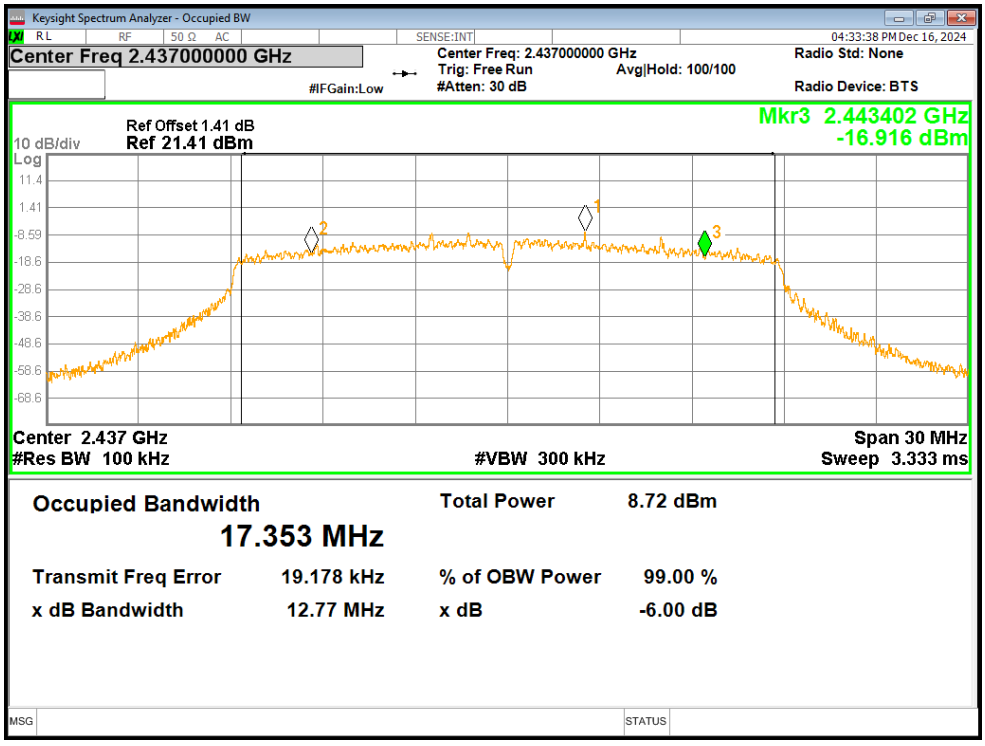
-6dB Bandwidth NVNT g 2462MHz Ant1



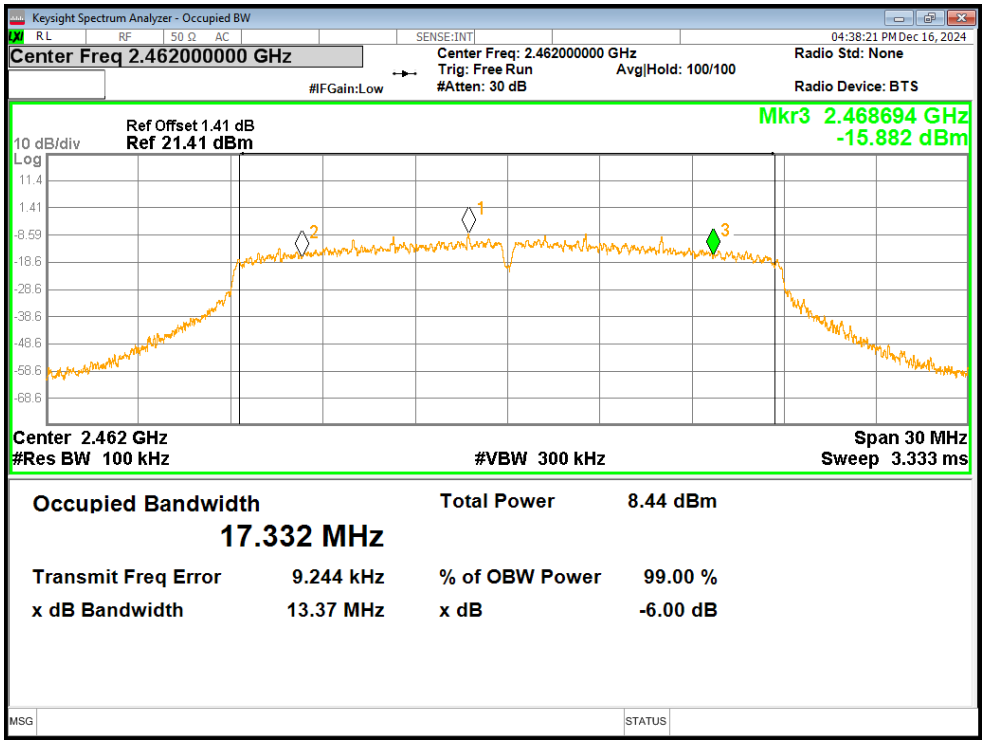
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1

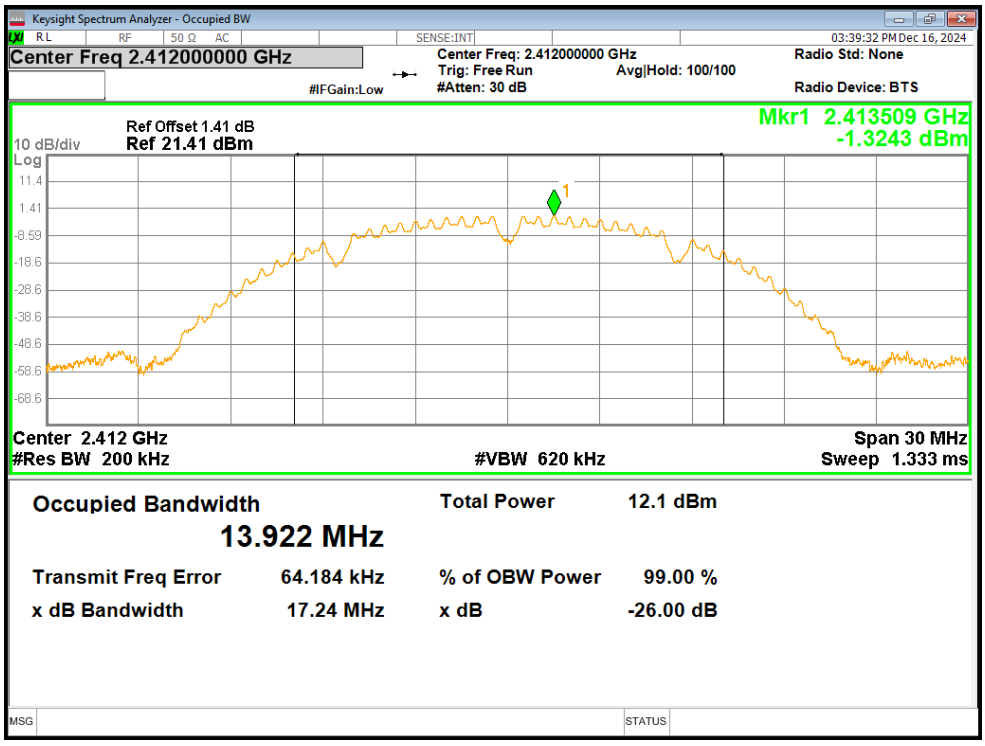


4.Occupied Channel Bandwidth

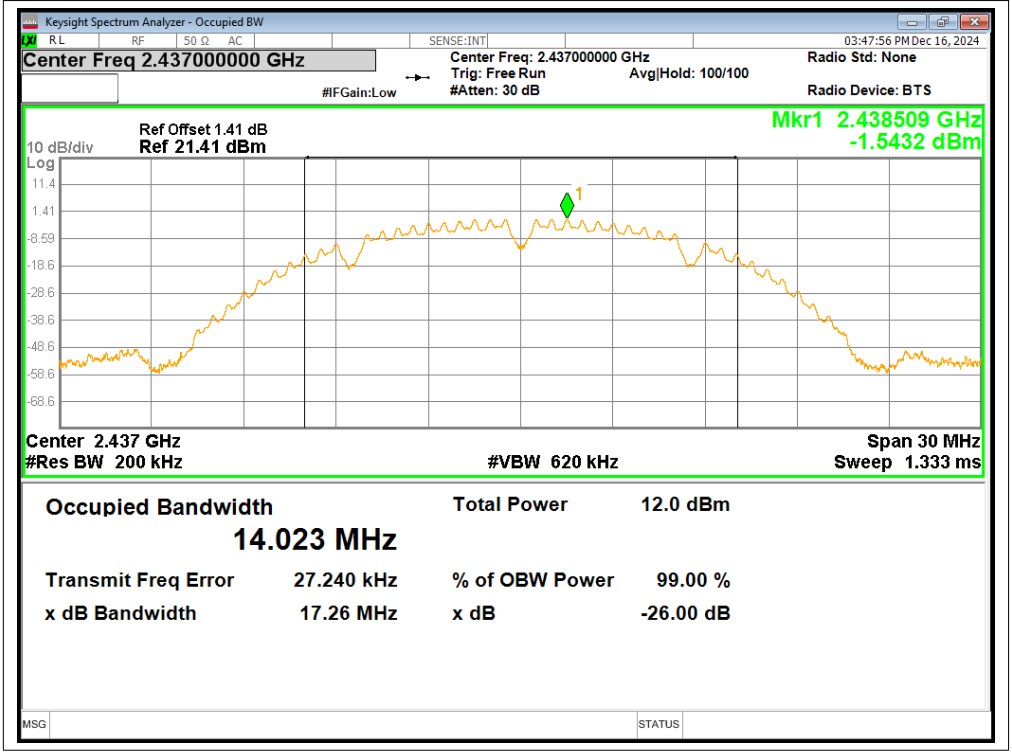
Mode	Frequency (MHz)	99% OBW (MHz)
b	2412	13.922
b	2437	14.023
b	2462	13.985
g	2412	16.259
g	2437	16.201
g	2462	16.192
n20	2412	17.379
n20	2437	17.312
n20	2462	17.311

Test Graphs

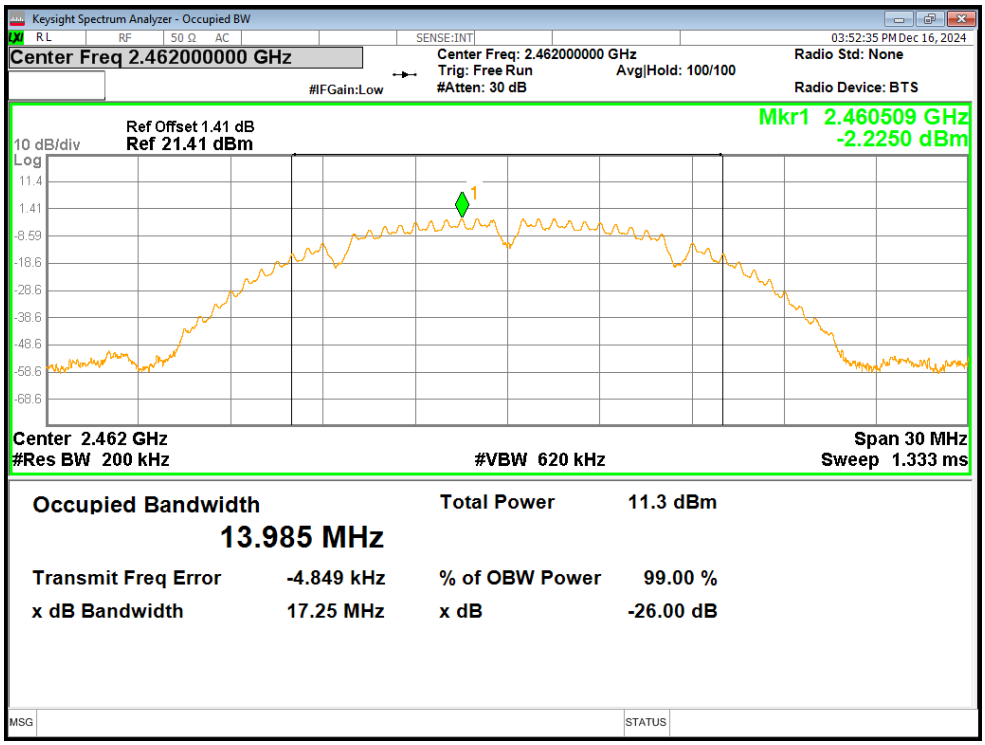
OBW NVNT b 2412MHz Ant1



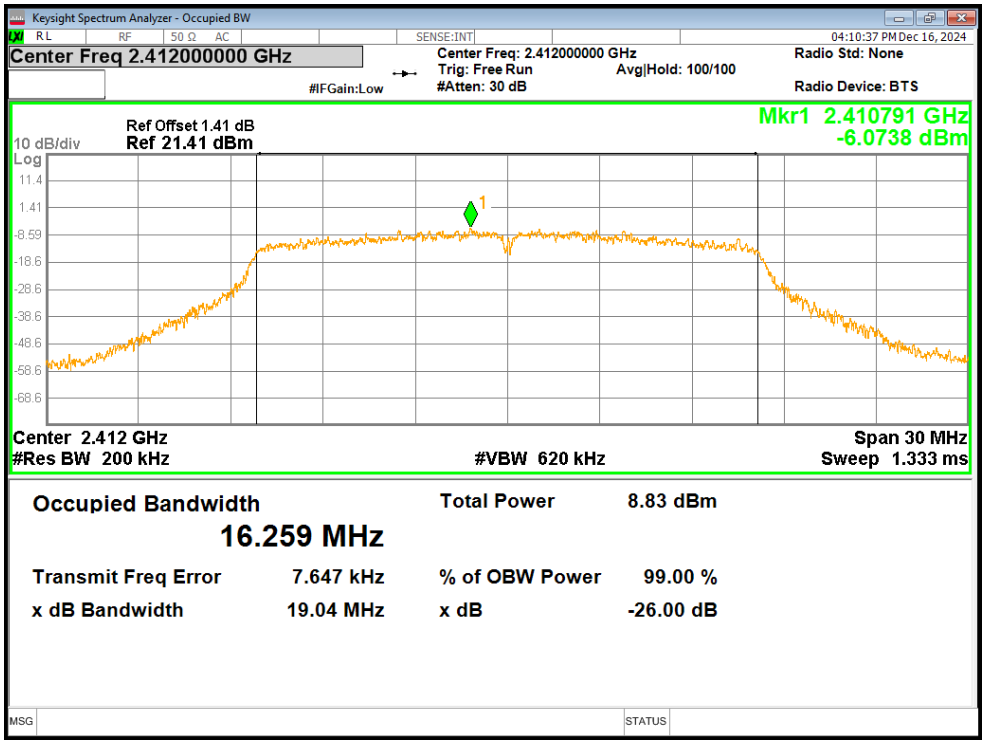
OBW NVNT b 2437MHz Ant1



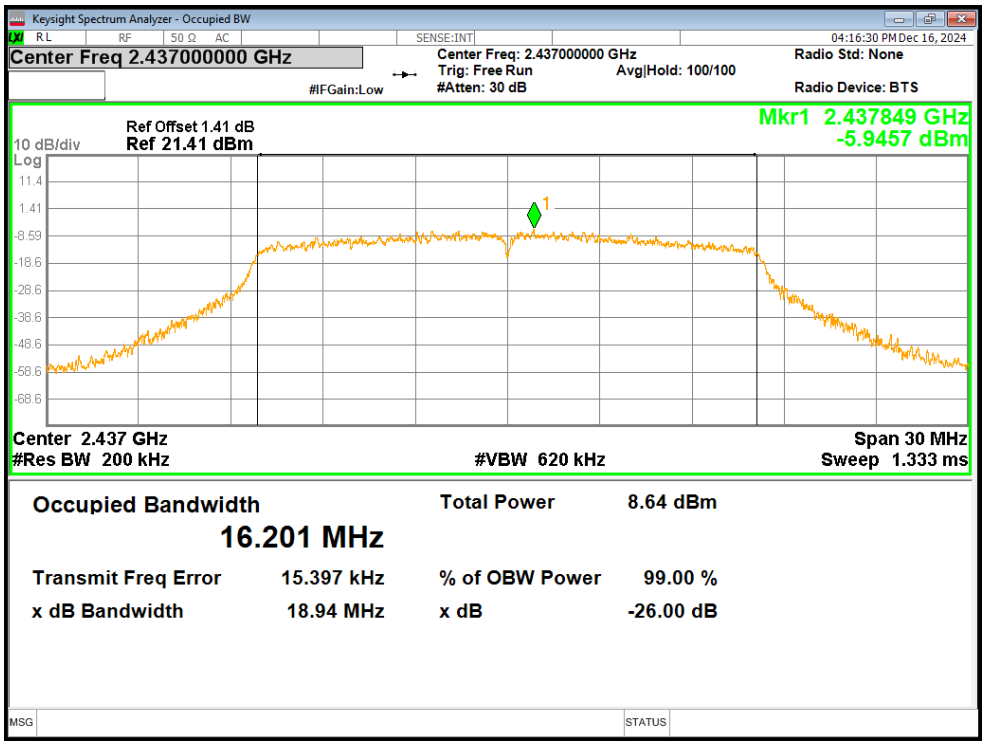
OBW NVNT b 2462MHz Ant1



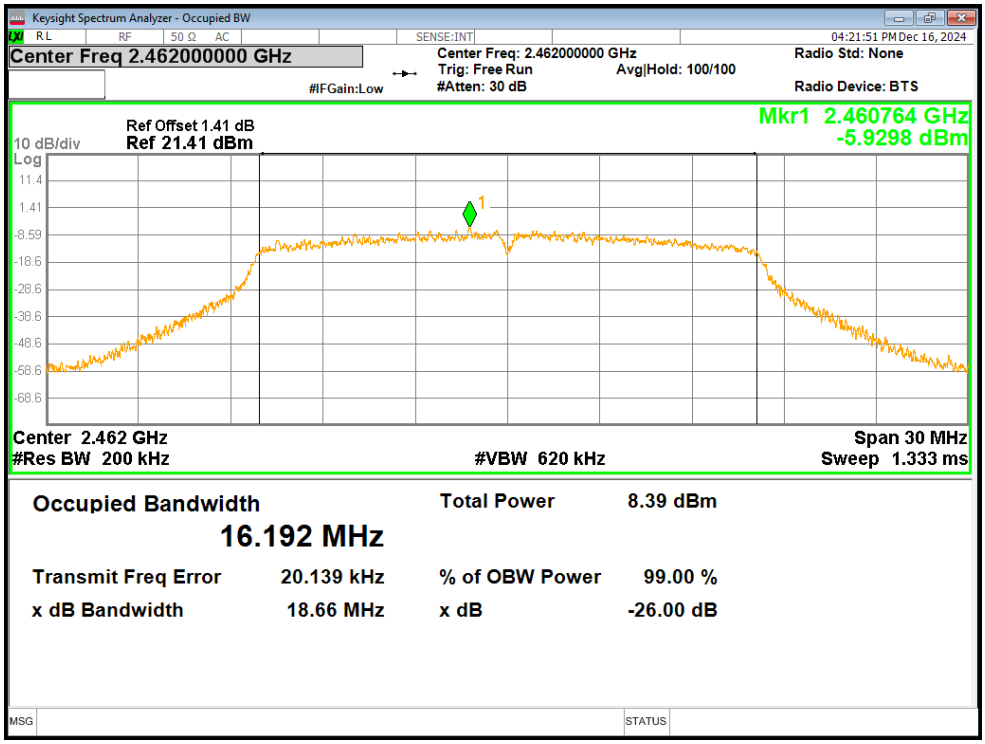
OBW NVNT g 2412MHz Ant1



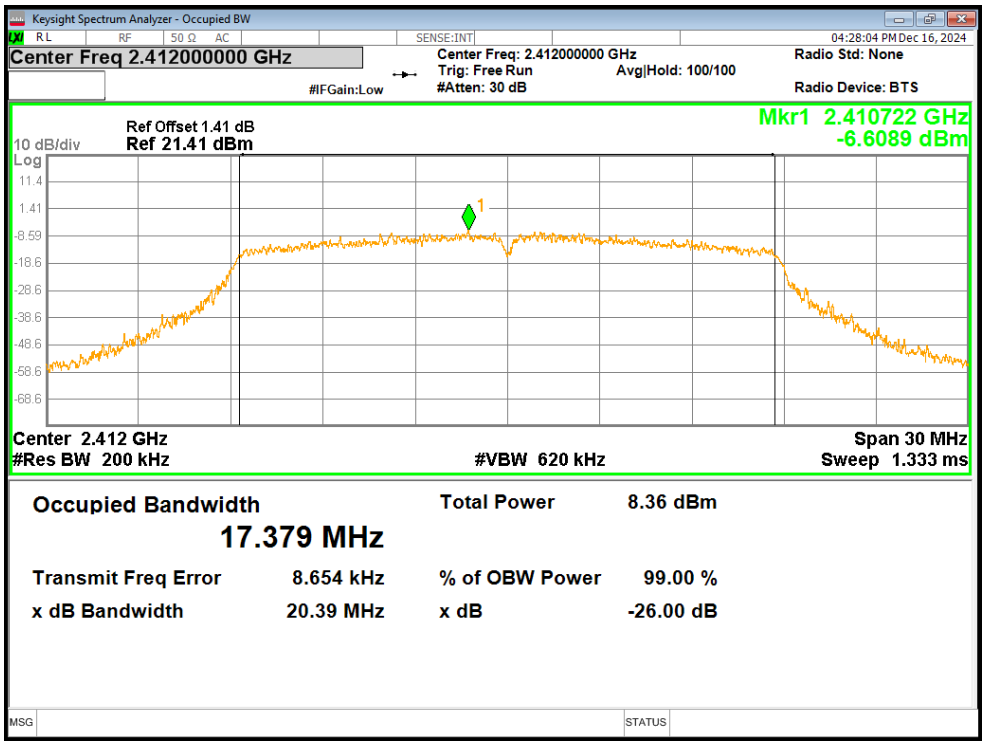
OBW NVNT g 2437MHz Ant1



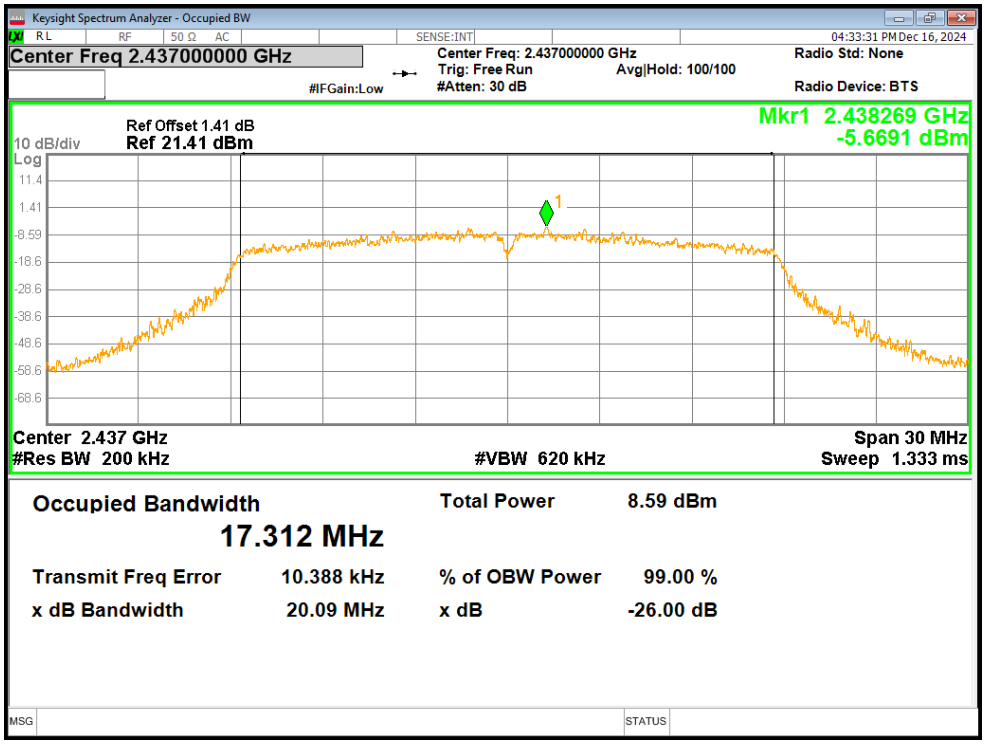
OBW NVNT g 2462MHz Ant1



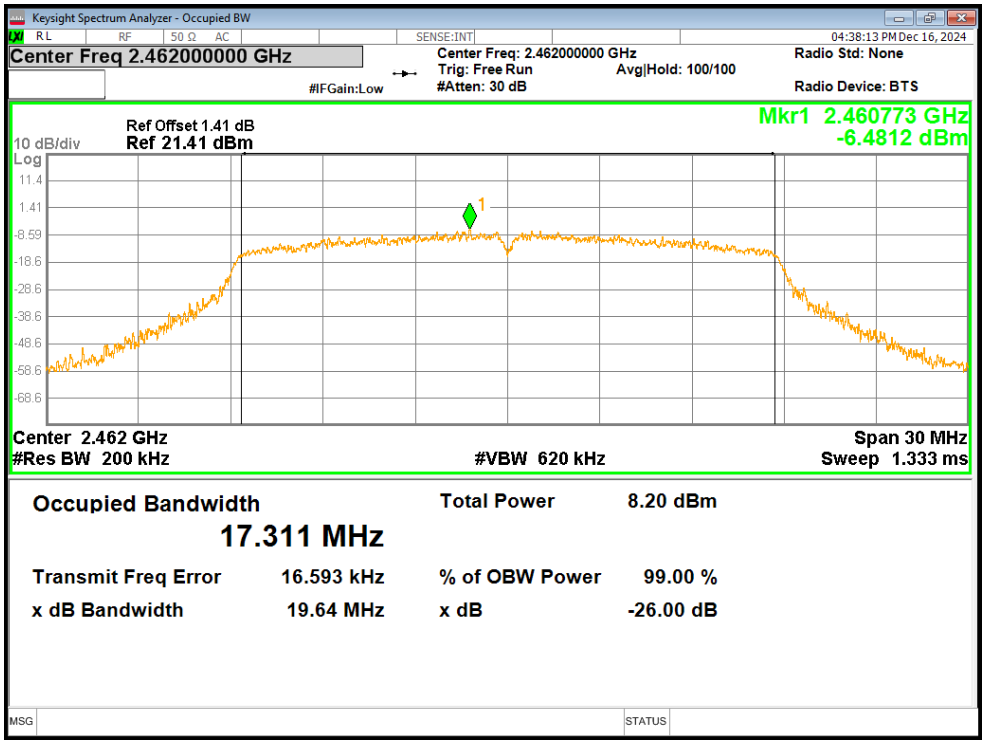
OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



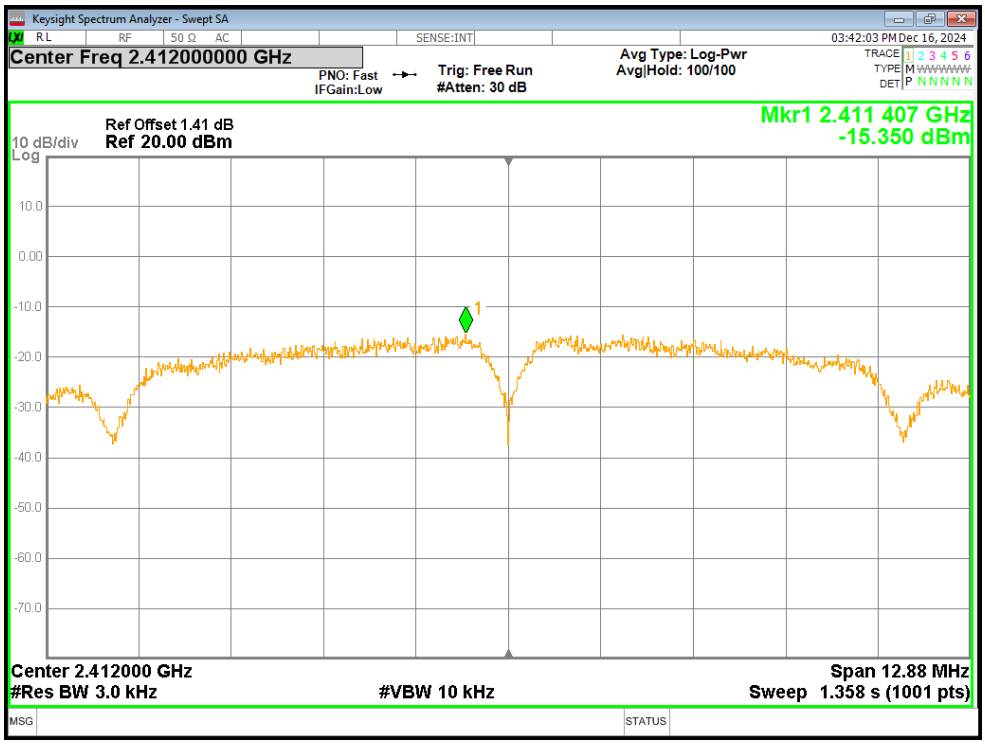
OBW NVNT n20 2462MHz Ant1



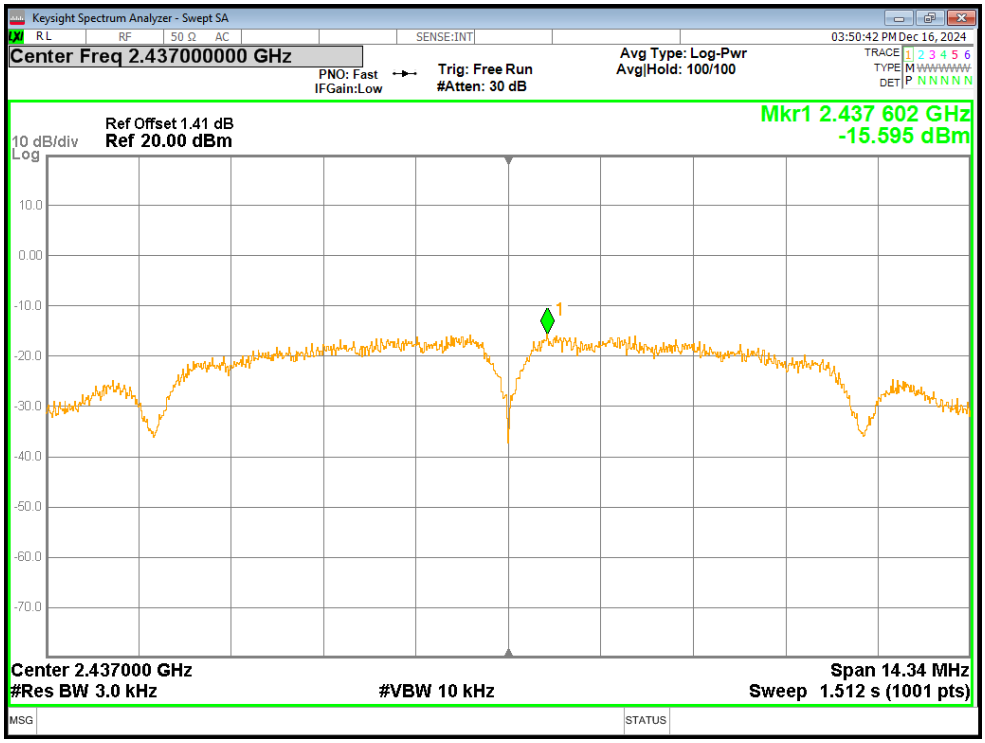
5.Maximum Power Spectral Density Level

Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
b	2412	-15.35	8	Pass
b	2437	-15.6	8	Pass
b	2462	-16.08	8	Pass
g	2412	-21.27	8	Pass
g	2437	-21.22	8	Pass
g	2462	-15.37	8	Pass
n20	2412	-20.41	8	Pass
n20	2437	-20.19	8	Pass
n20	2462	-20.46	8	Pass

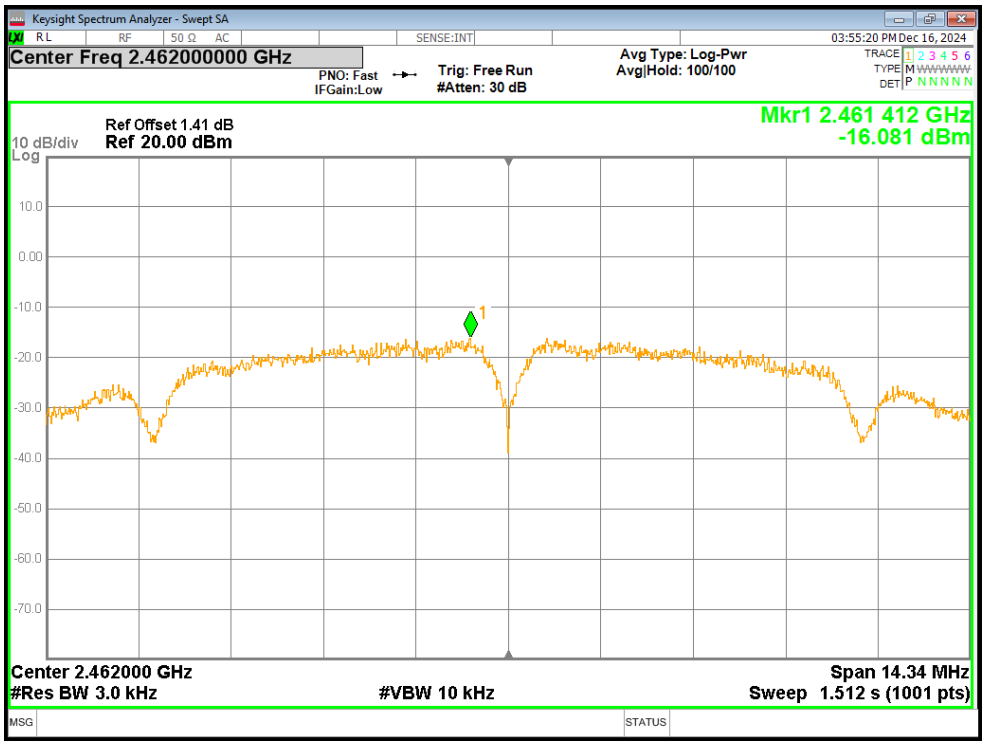
Test Graphs
PSD NVNT b 2412MHz Ant1



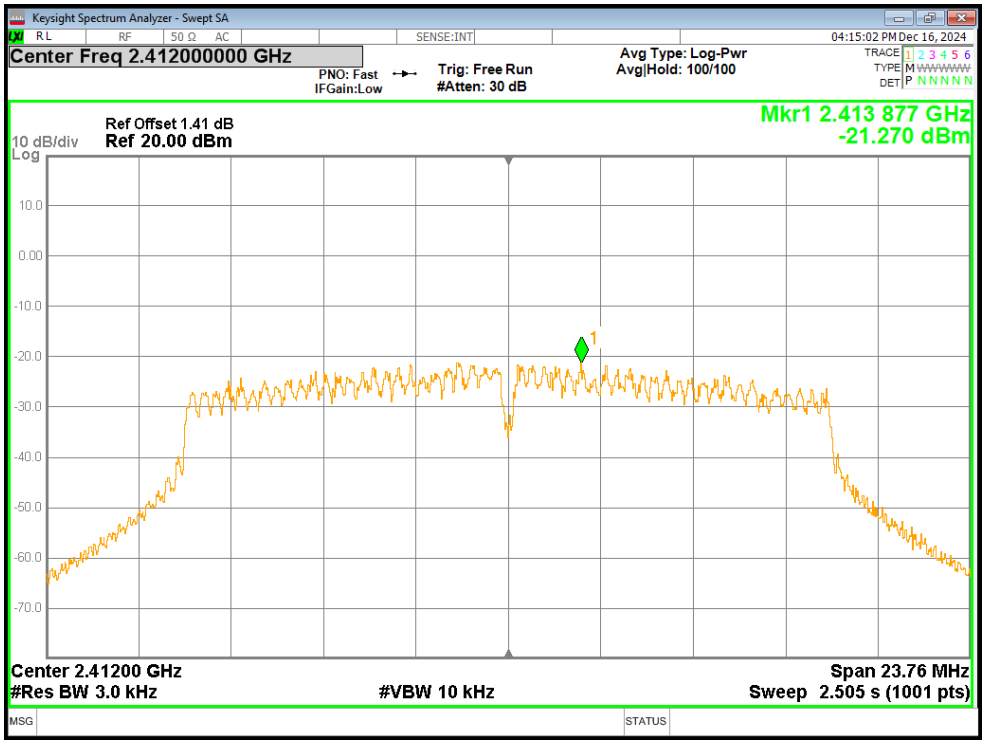
PSD NVNT b 2437MHz Ant1



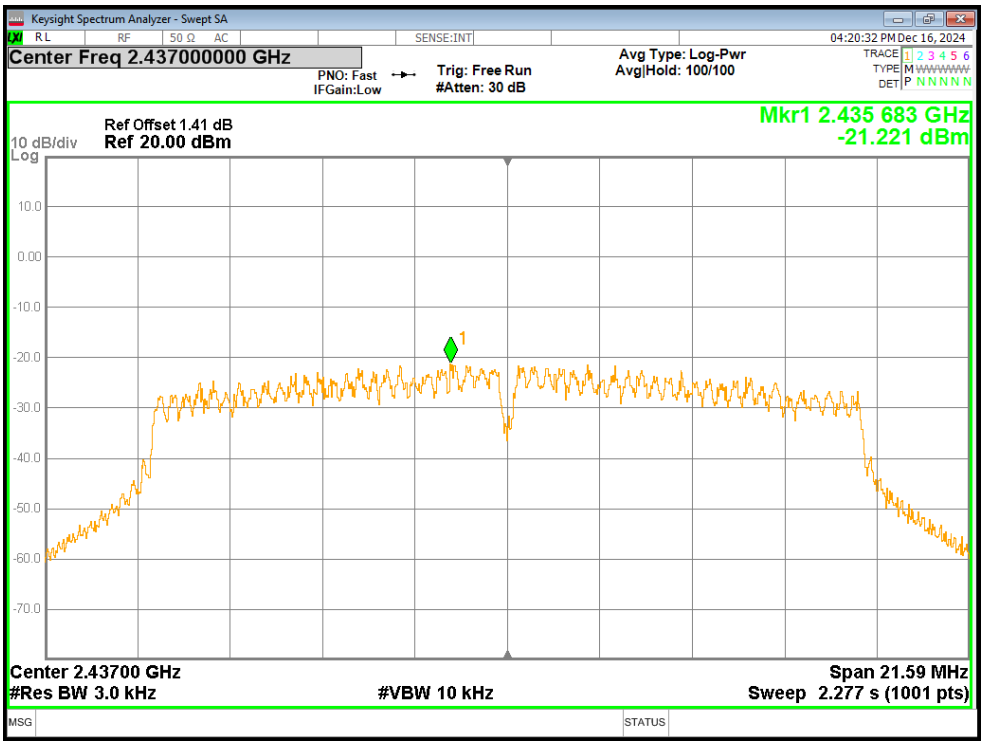
PSD NVNT b 2462MHz Ant1



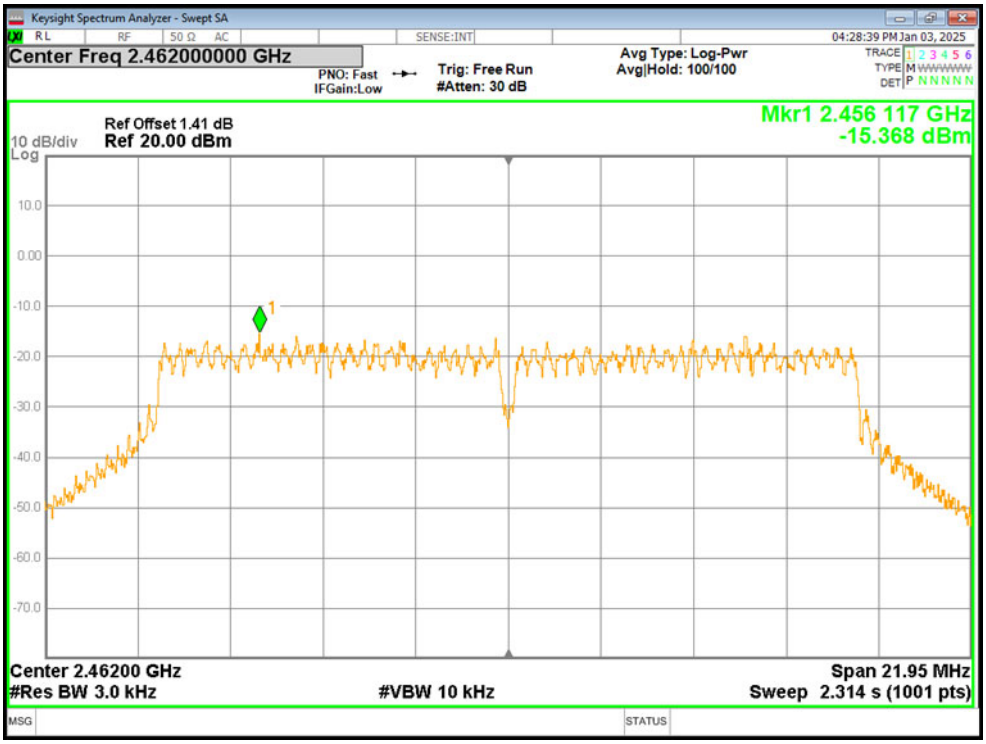
PSD NVNT g 2412MHz Ant1



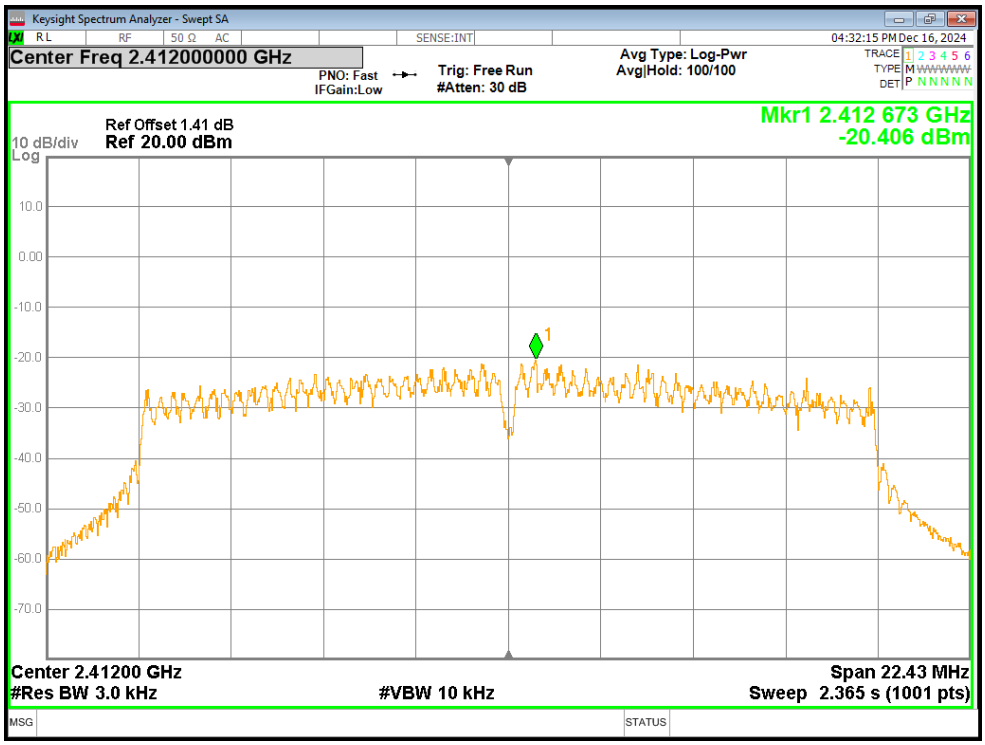
PSD NVNT g 2437MHz Ant1



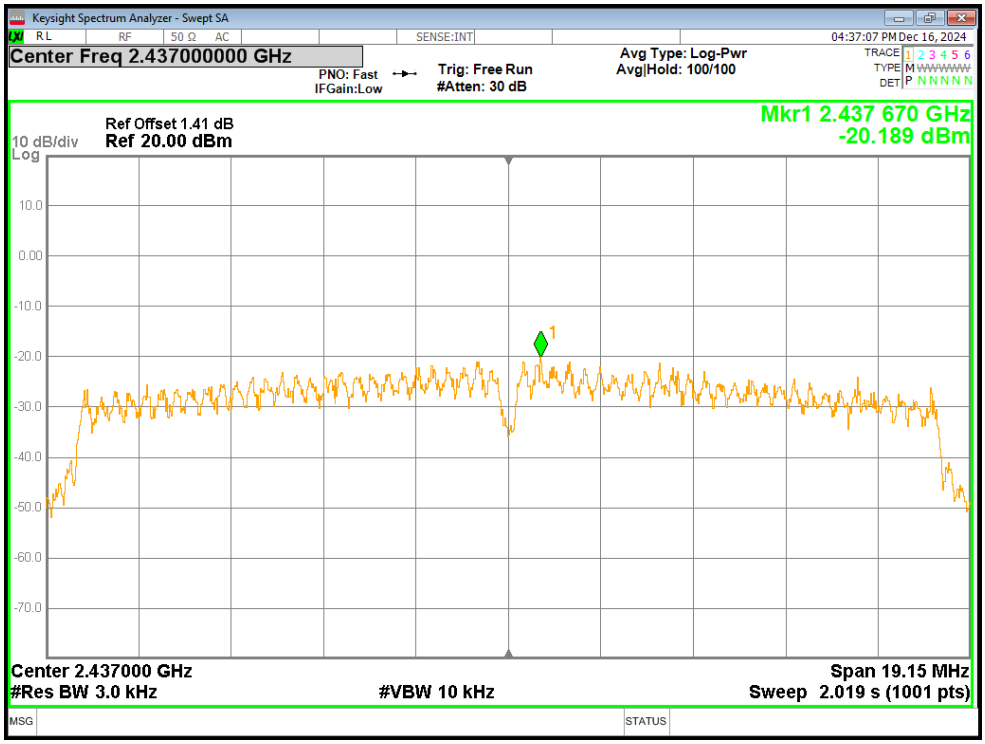
PSD NVNT g 2462MHz Ant1



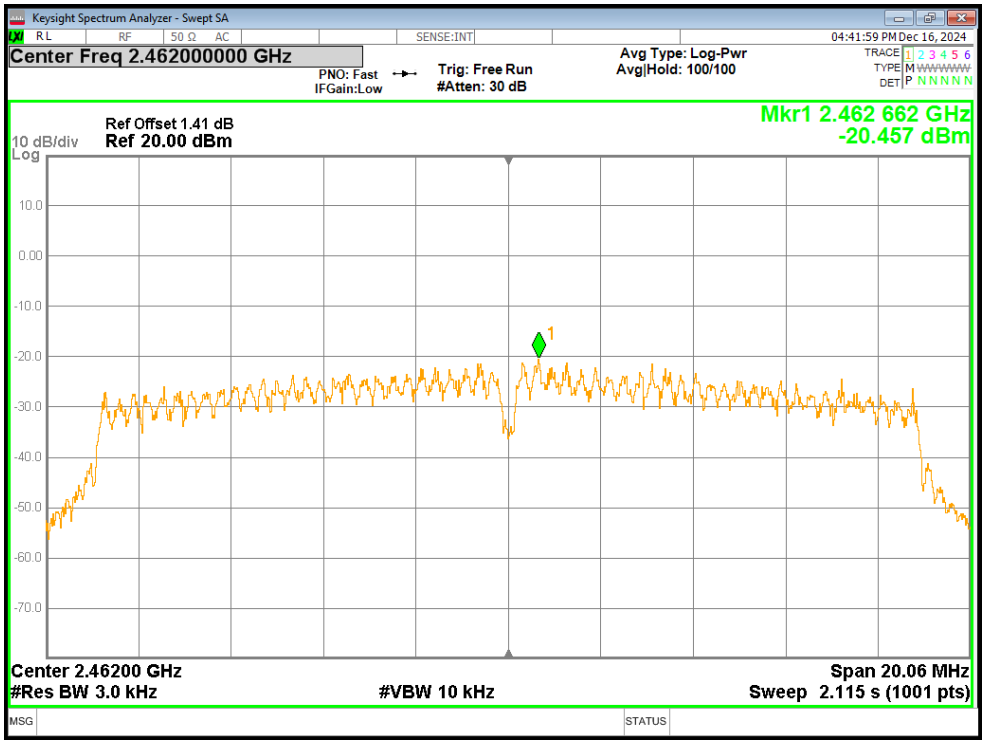
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant1

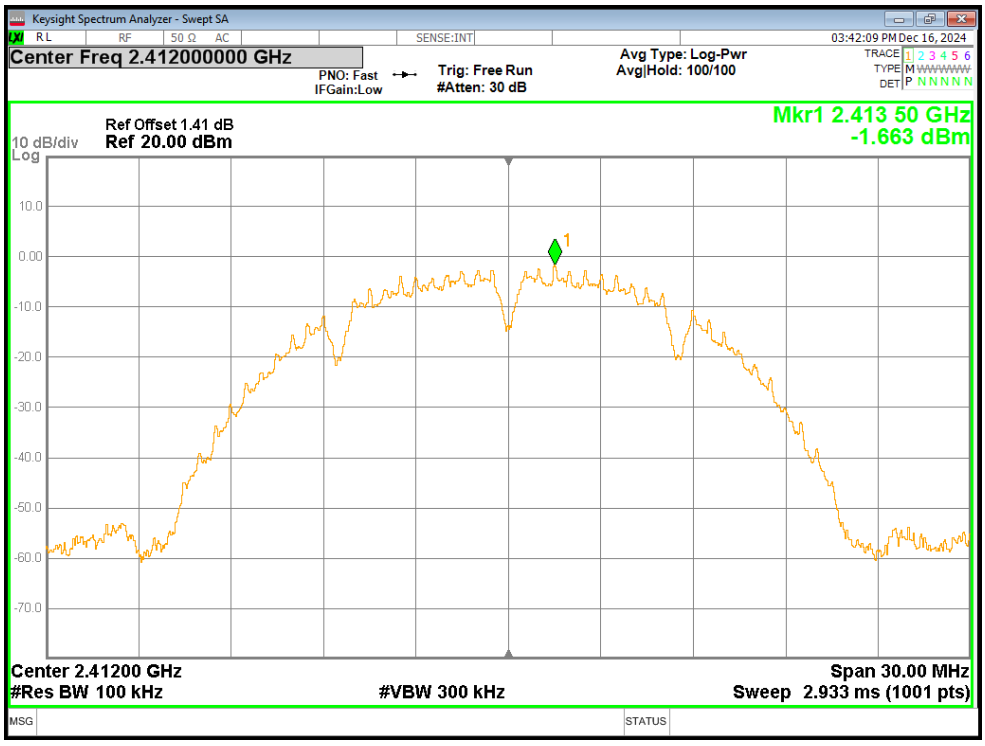


6.Band Edge

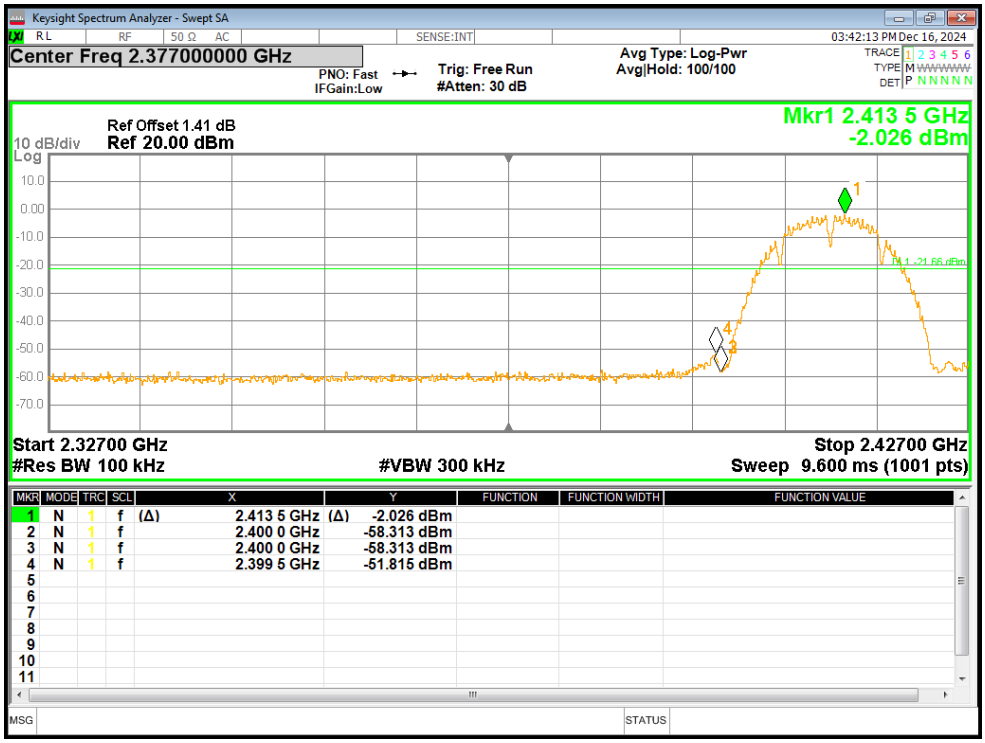
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	-50.15	-20	Pass
b	2462	-54.82	-20	Pass
g	2412	-43.44	-20	Pass
g	2462	-51.52	-20	Pass
n20	2412	-41.01	-20	Pass
n20	2462	-49.09	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

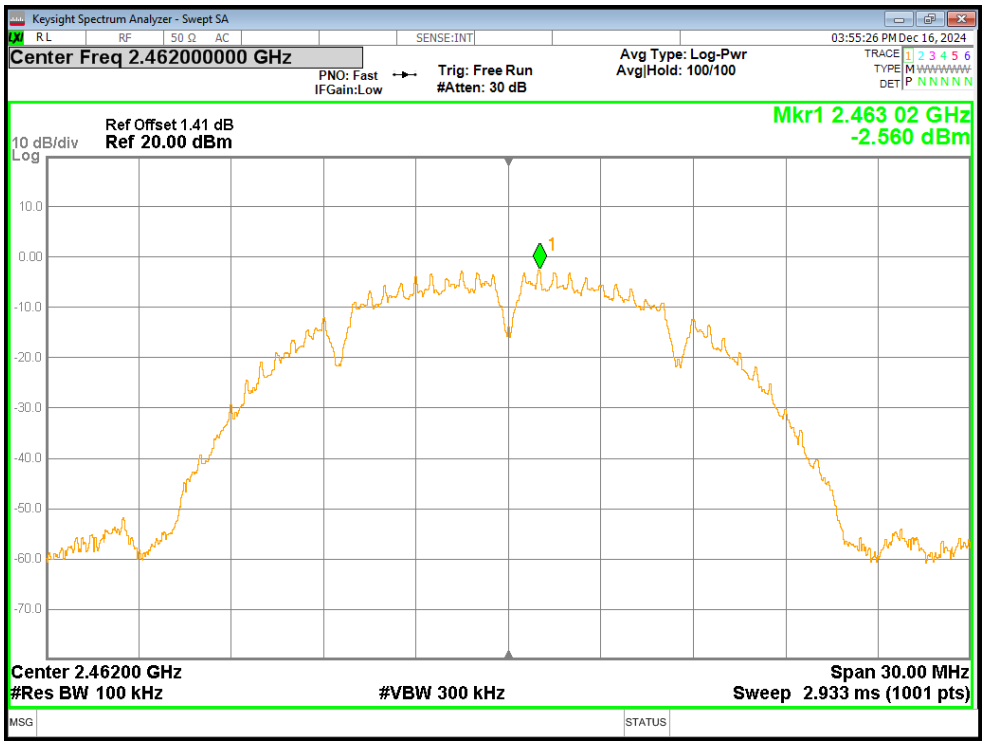


Band Edge NVNT b 2412MHz Ant1 Emission

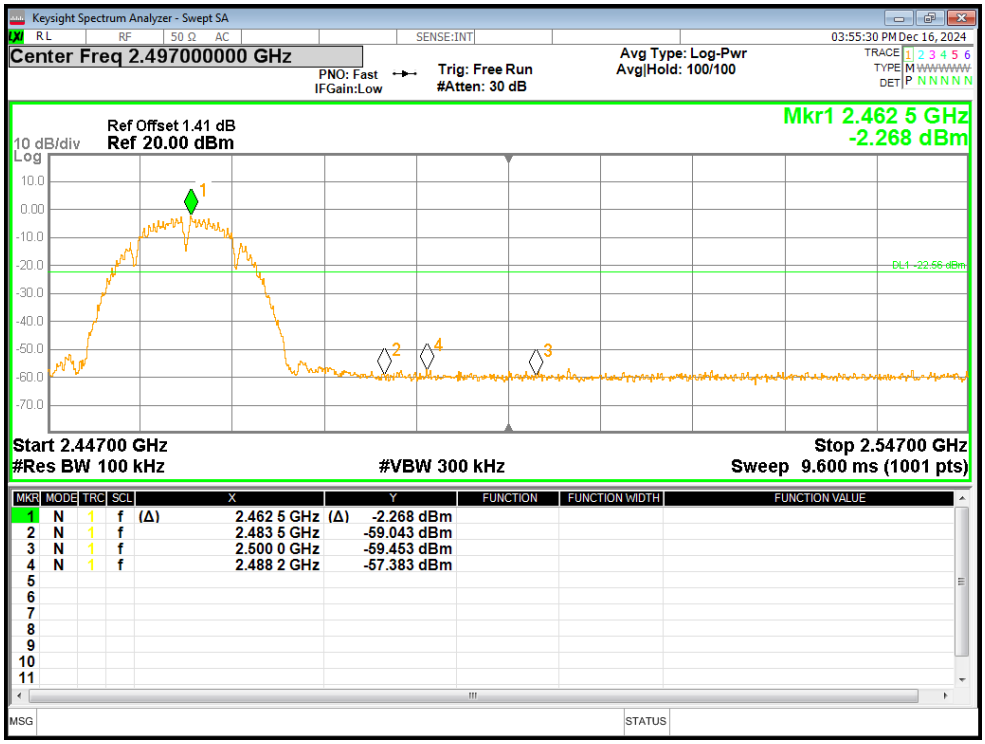


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.413 5 GHz	(Δ) -2.026 dBm			
2	N	1	f	2.400 0 GHz	-58.313 dBm			
3	N	1	f	2.400 0 GHz	-58.313 dBm			
4	N	1	f	2.399 5 GHz	-51.815 dBm			
5								
6								
7								
8								
9								
10								
11								

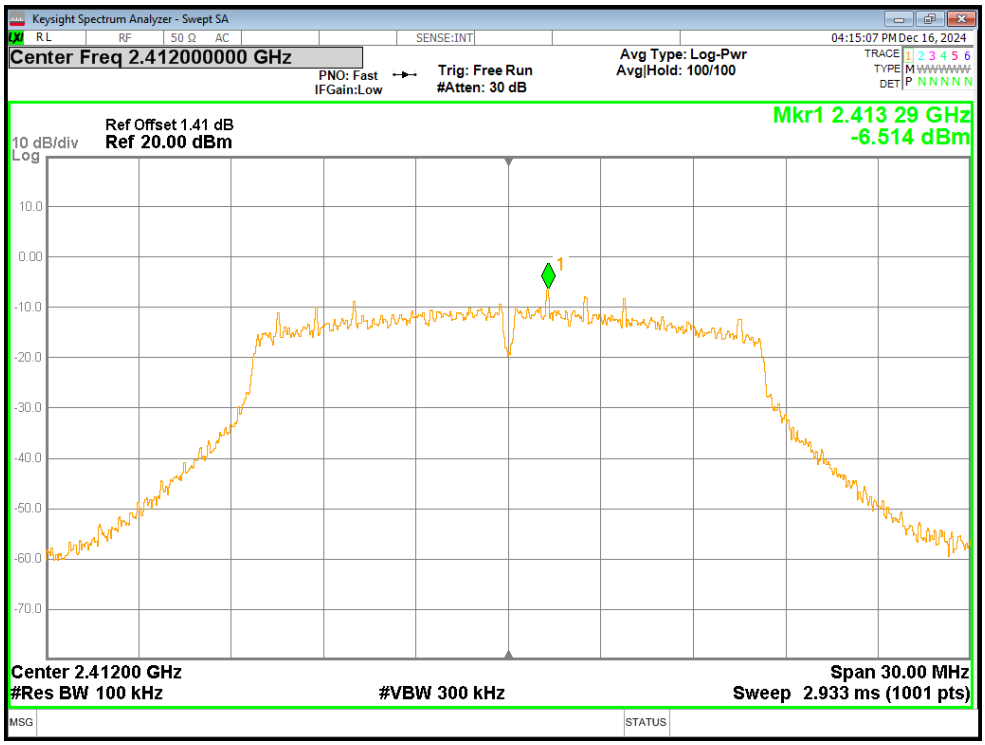
Band Edge NVNT b 2462MHz Ant1 Ref



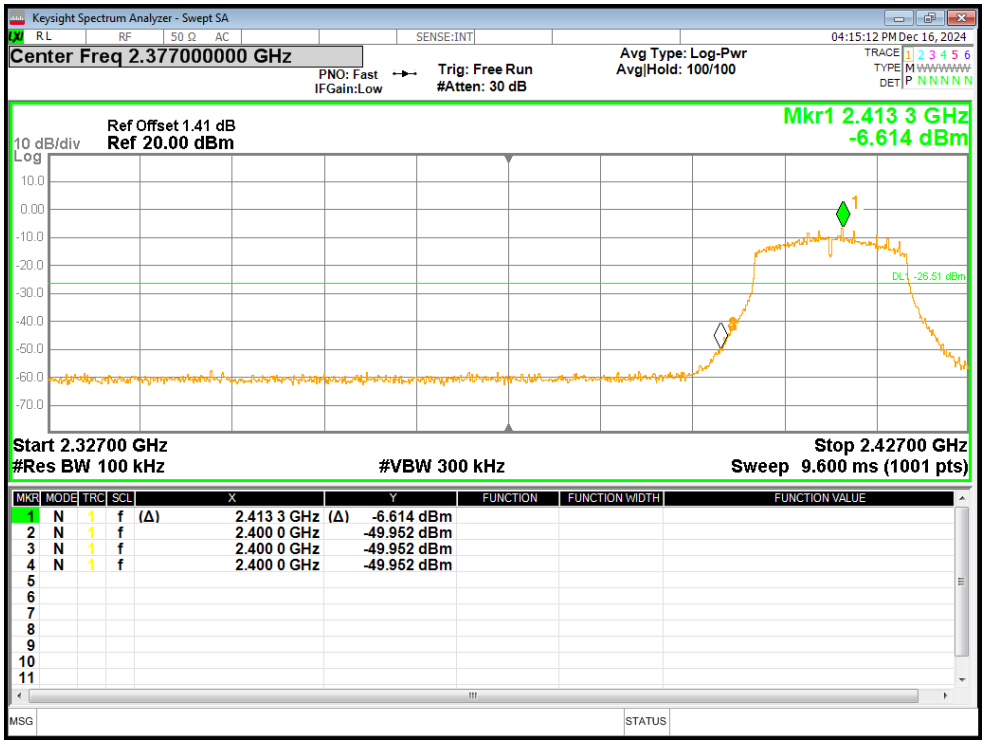
Band Edge NVNT b 2462MHz Ant1 Emission



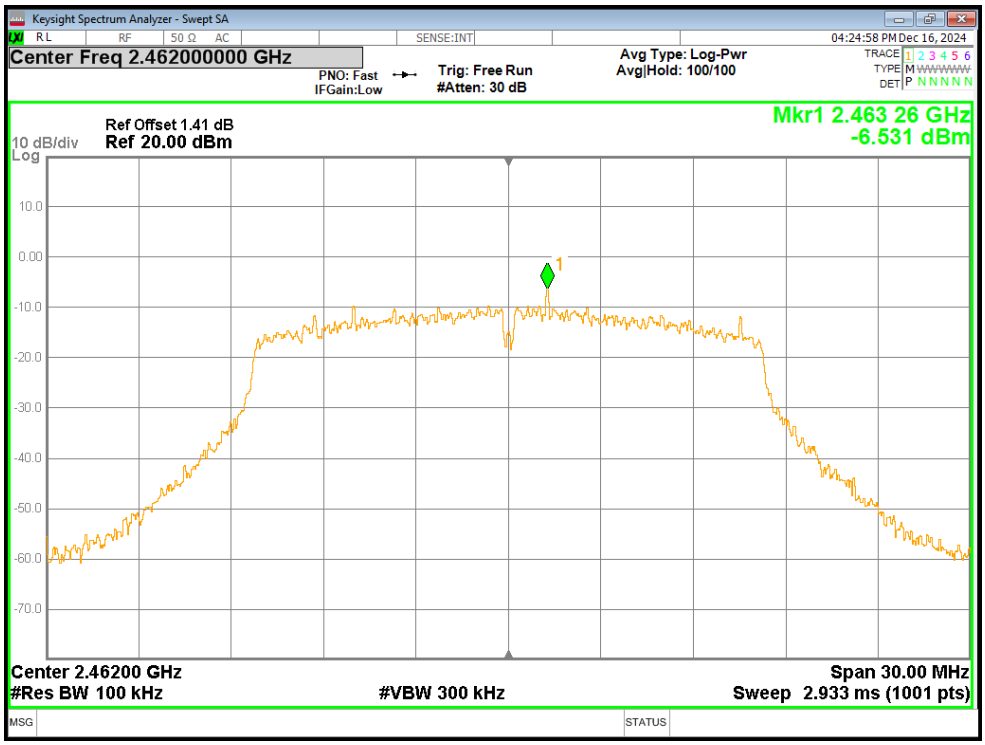
Band Edge NVNT g 2412MHz Ant1 Ref



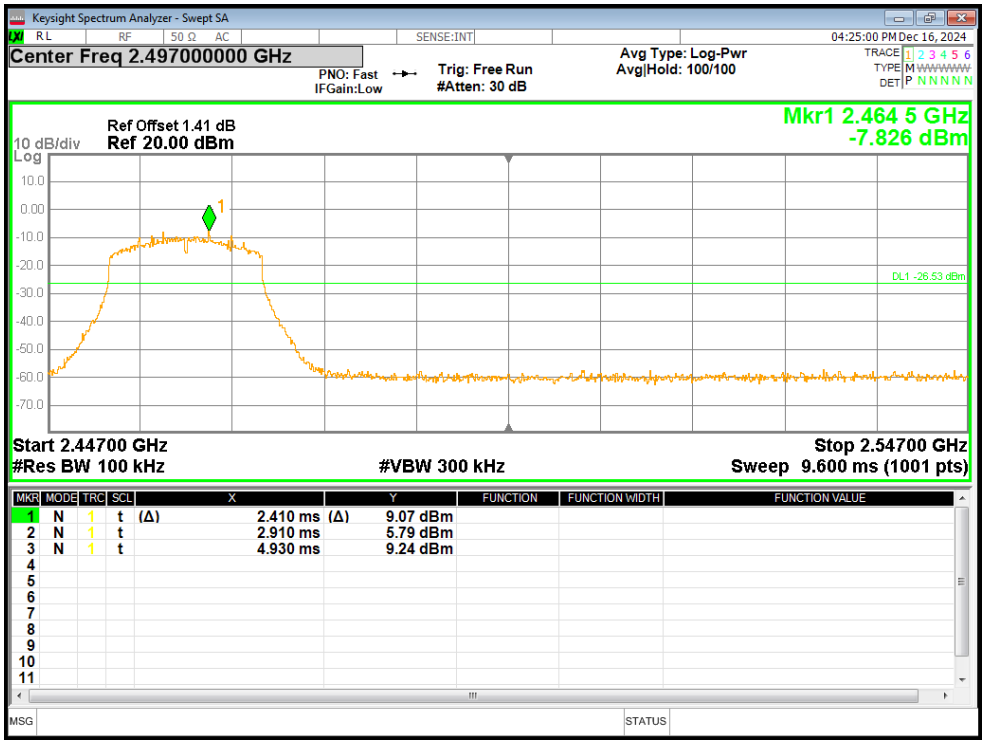
Band Edge NVNT g 2412MHz Ant1 Emission



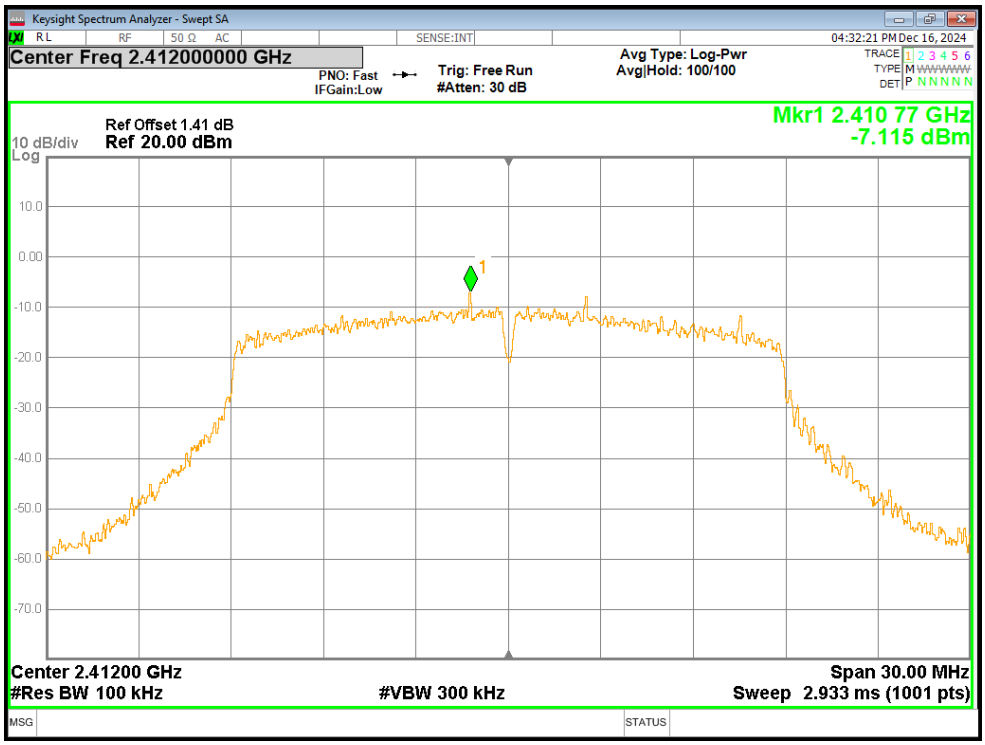
Band Edge NVNT g 2462MHz Ant1 Ref



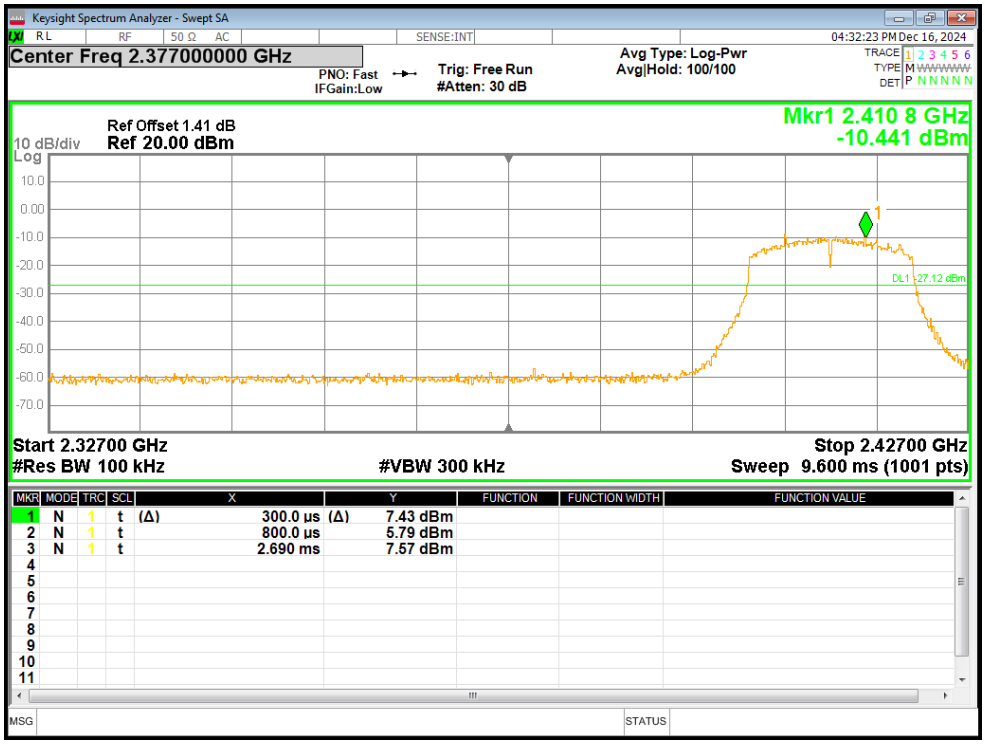
Band Edge NVNT g 2462MHz Ant1 Emission



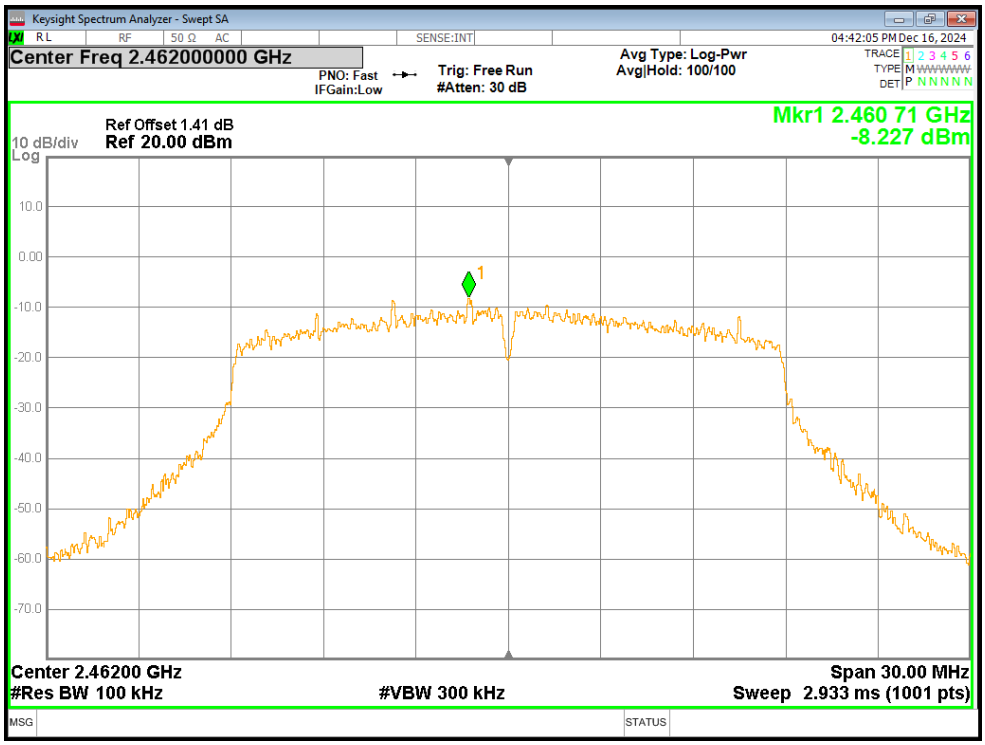
Band Edge NVNT n20 2412MHz Ant1 Ref



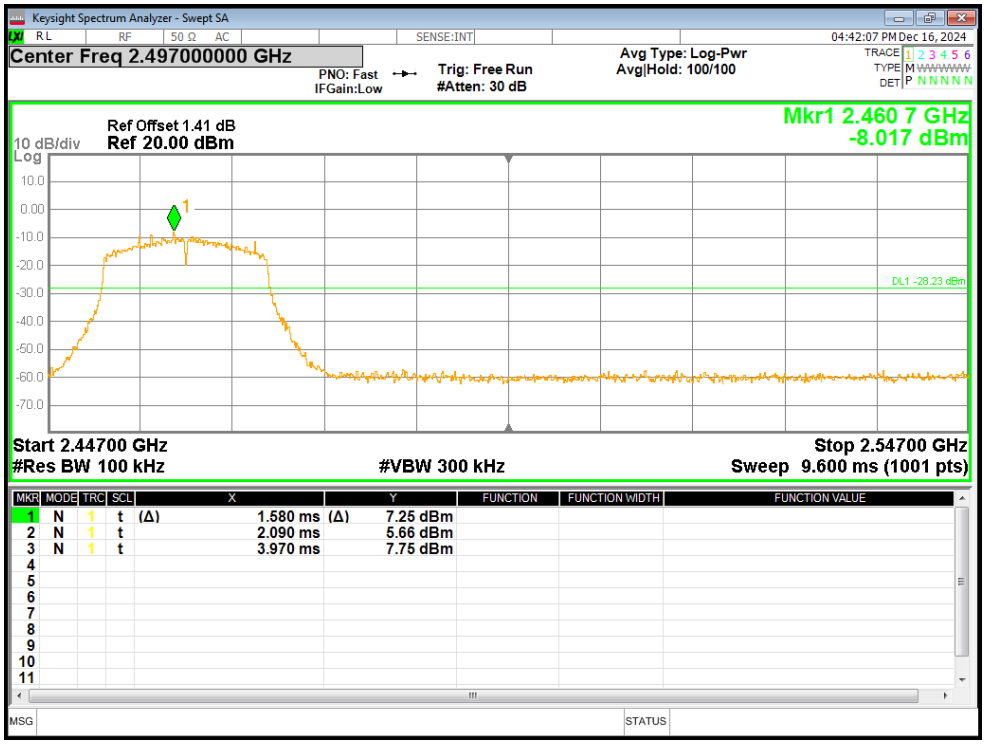
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission

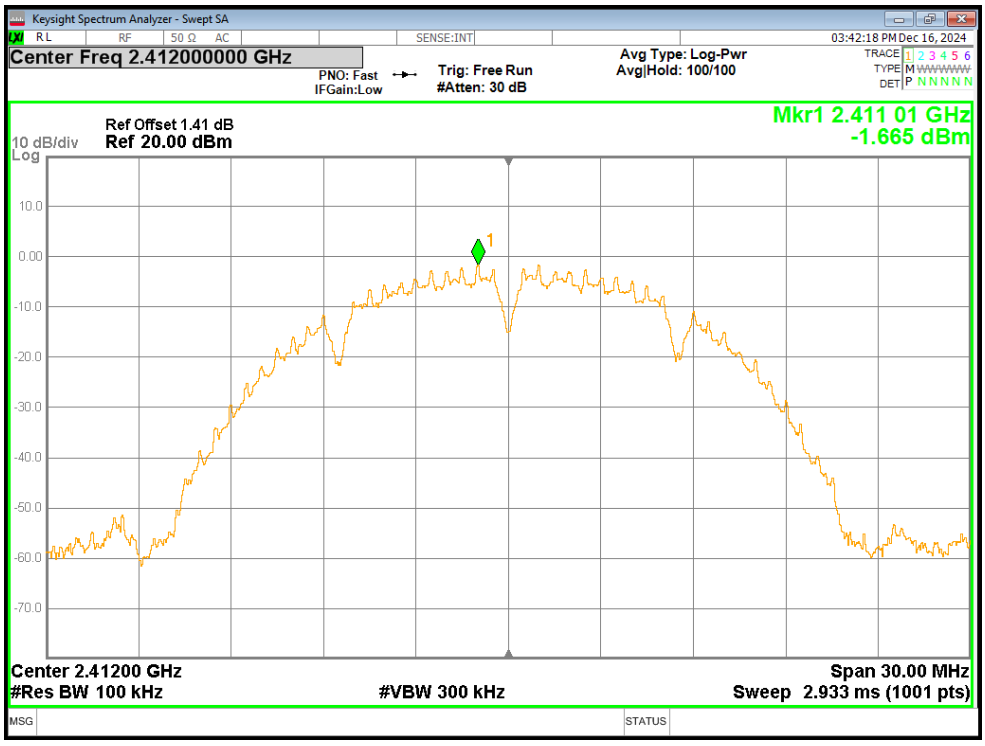


7.Conducted RF Spurious Emission

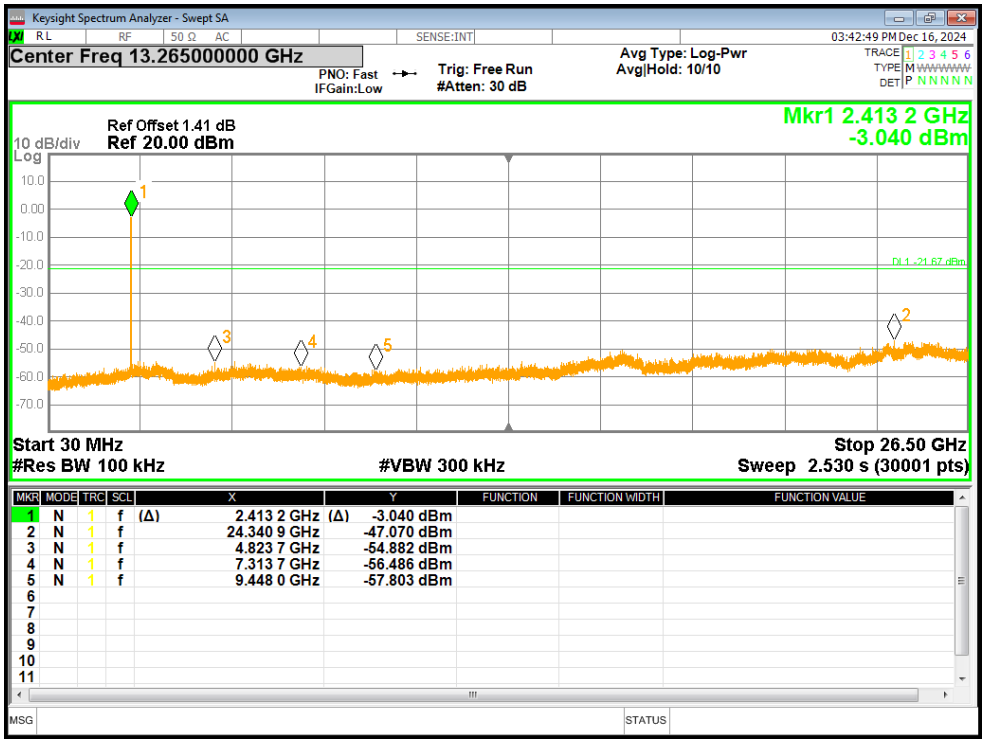
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	-45.4	-20	Pass
b	2437	-44.11	-20	Pass
b	2462	-44.62	-20	Pass
g	2412	-38.77	-20	Pass
g	2437	-37.6	-20	Pass
g	2462	-38.17	-20	Pass
n20	2412	-39.6	-20	Pass
n20	2437	-41.01	-20	Pass
n20	2462	-39.56	-20	Pass

Test Graphs

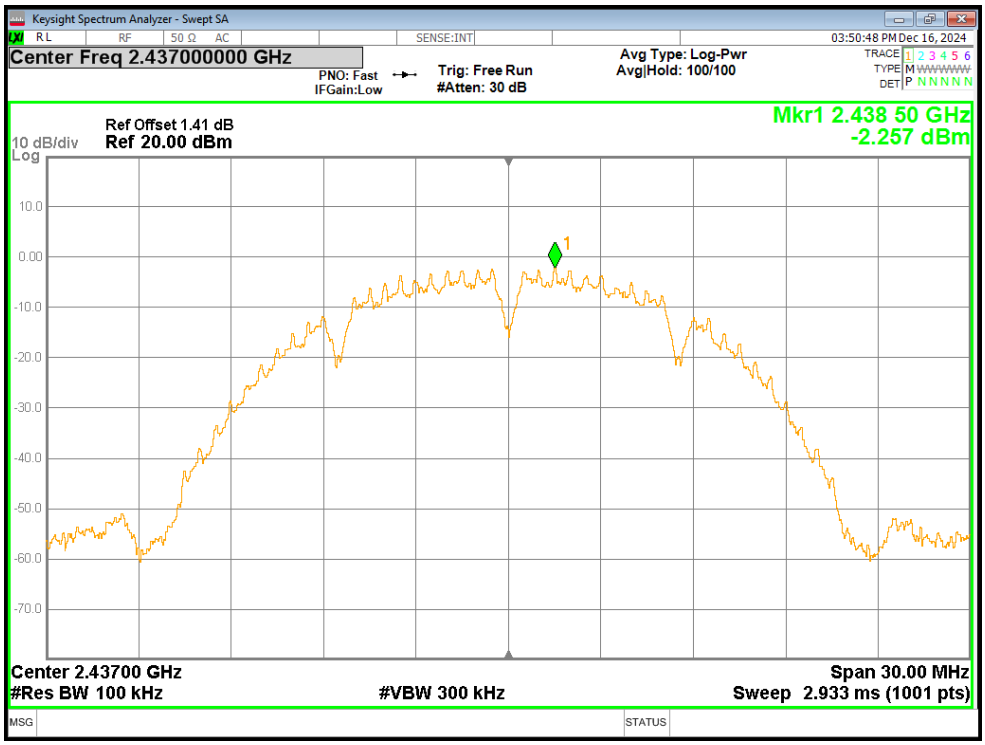
Tx. Spurious NVNT b 2412MHz Ant1 Ref



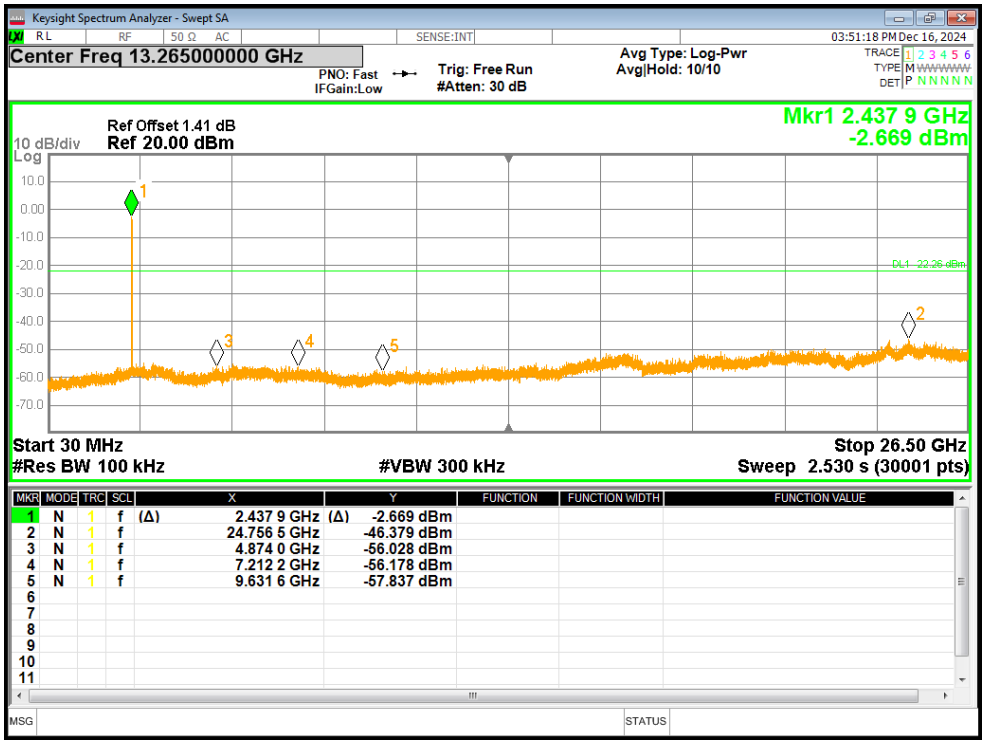
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref

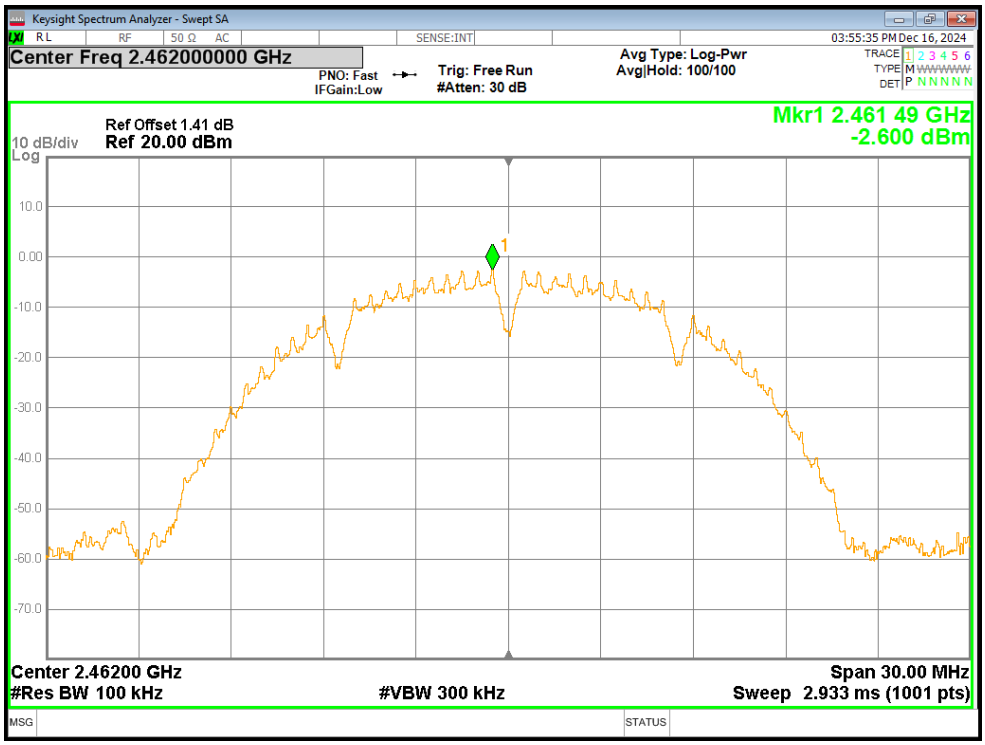


Tx. Spurious NVNT b 2437MHz Ant1 Emission

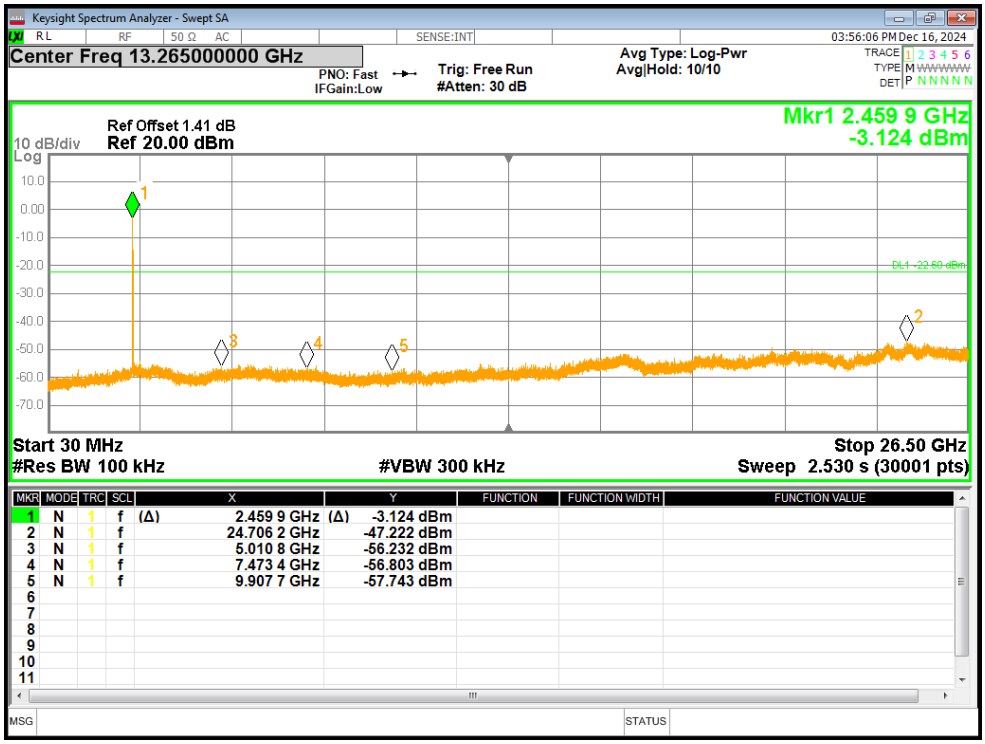


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.437 9 GHz	(Δ) -2.669 dBm			
2	N	1	f	24.756 5 GHz	-46.379 dBm			
3	N	1	f	4.874 0 GHz	-56.028 dBm			
4	N	1	f	7.212 2 GHz	-56.178 dBm			
5	N	1	f	9.631 6 GHz	-57.837 dBm			
6								
7								
8								
9								
10								
11								

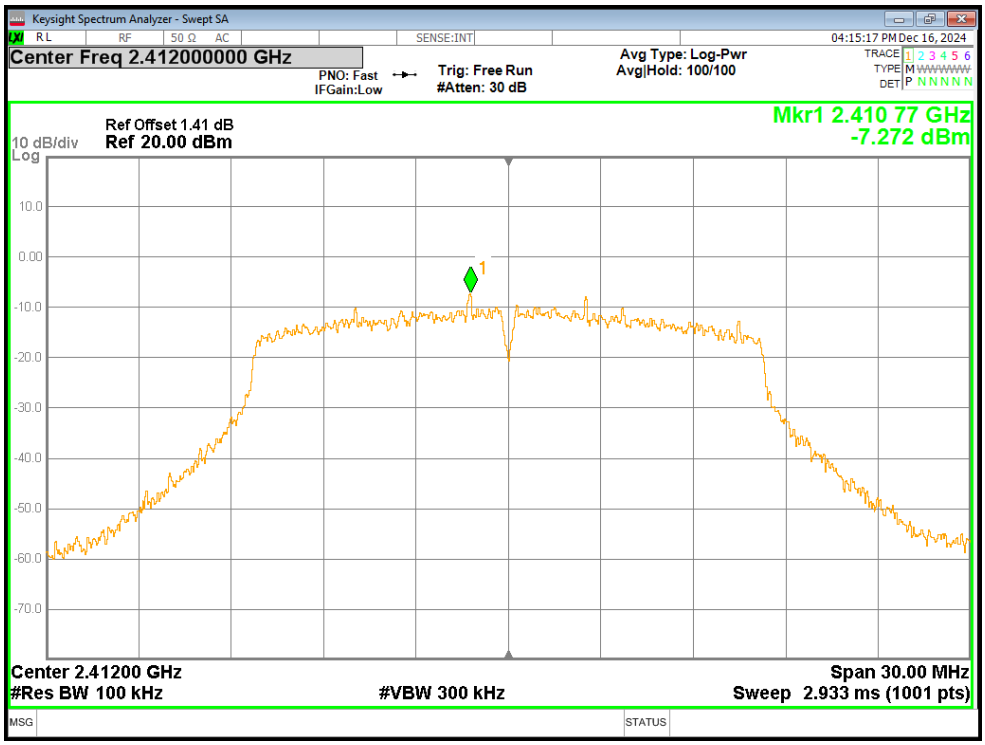
Tx. Spurious NVNT b 2462MHz Ant1 Ref



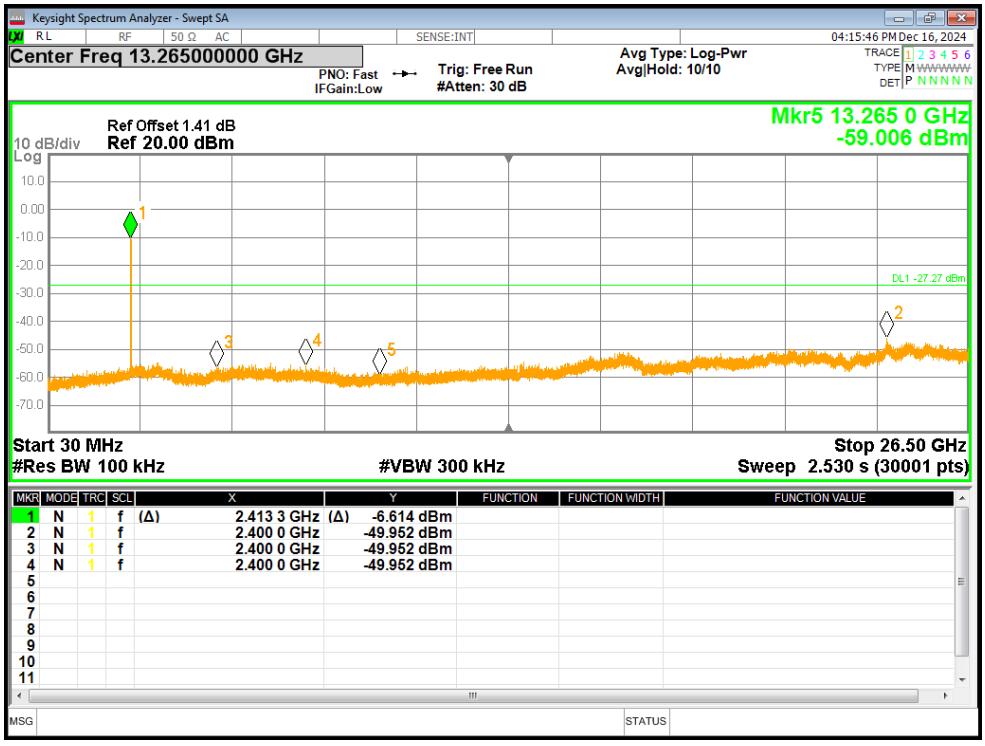
Tx. Spurious NVNT b 2462MHz Ant1 Emission



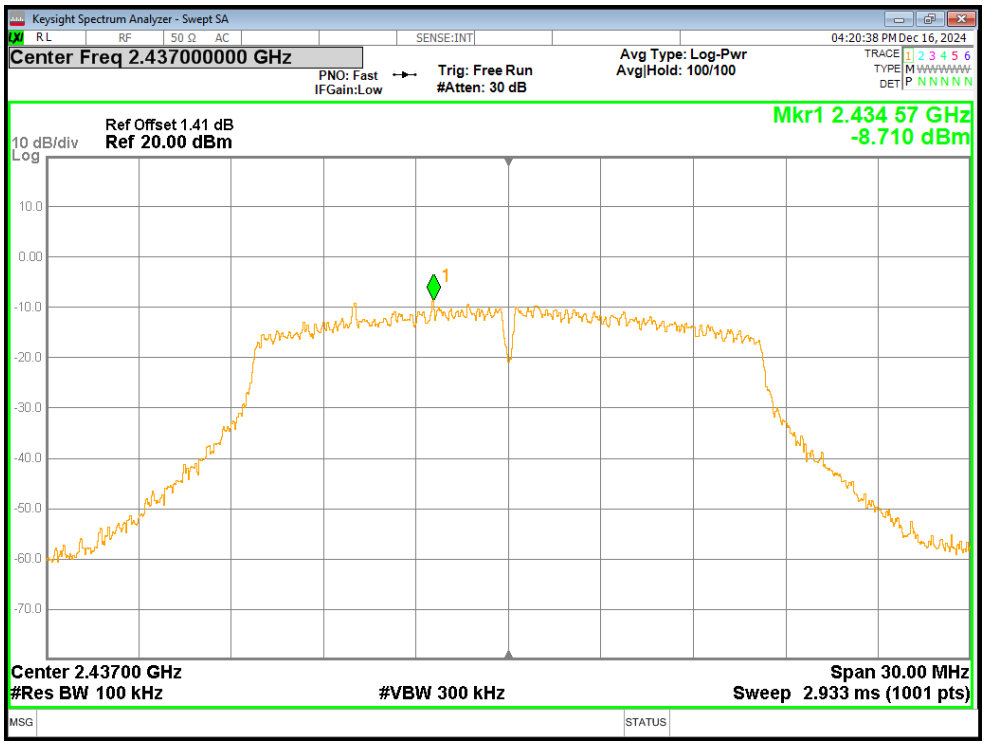
Tx. Spurious NVNT g 2412MHz Ant1 Ref



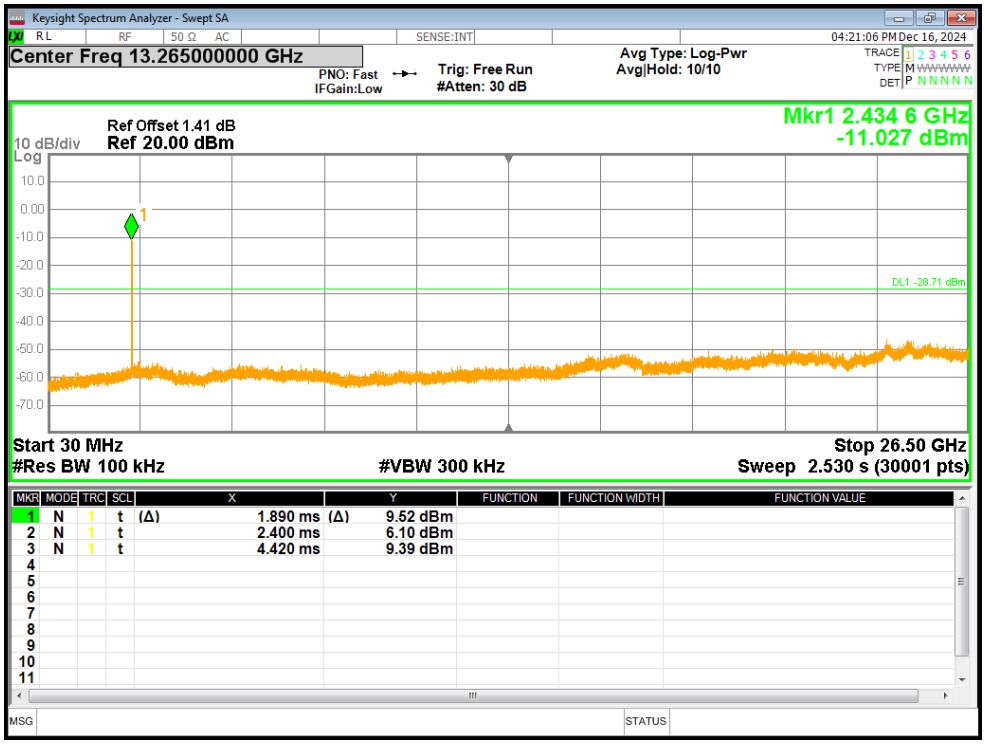
Tx. Spurious NVNT g 2412MHz Ant1 Emission



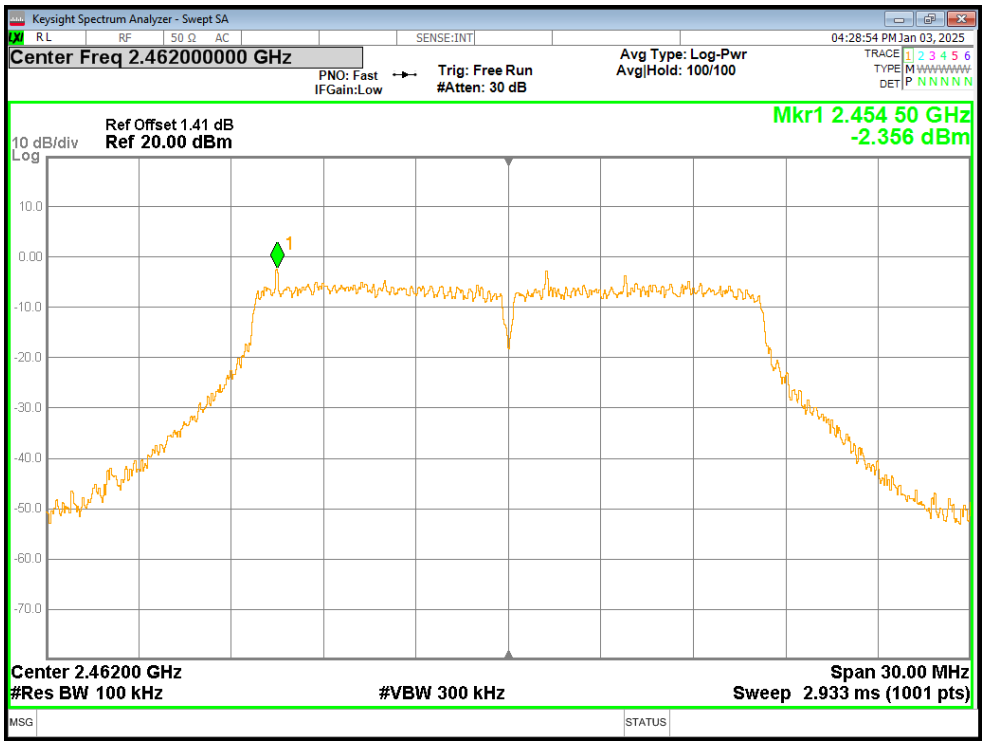
Tx. Spurious NVNT g 2437MHz Ant1 Ref



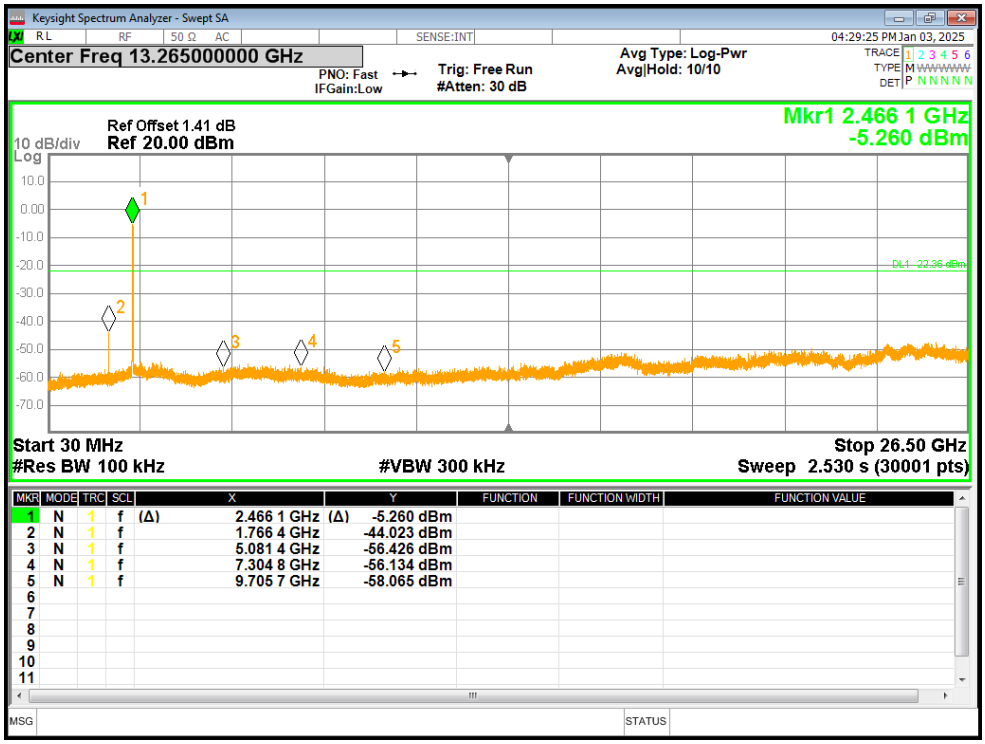
Tx. Spurious NVNT g 2437MHz Ant1 Emission



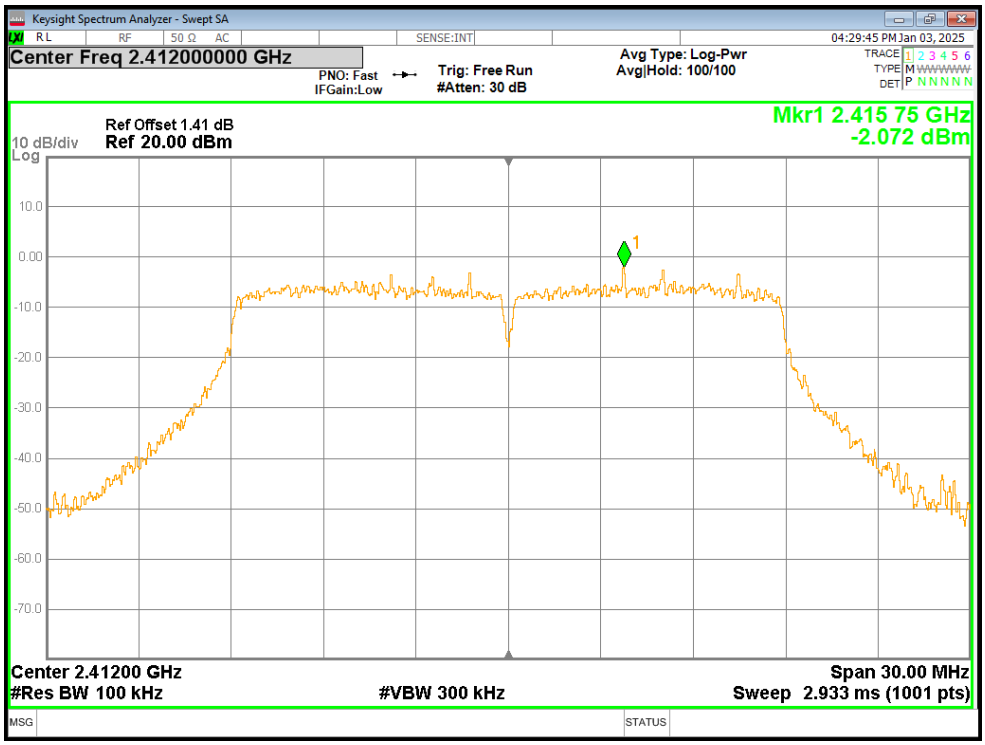
Tx. Spurious NVNT g 2462MHz Ant1 Ref



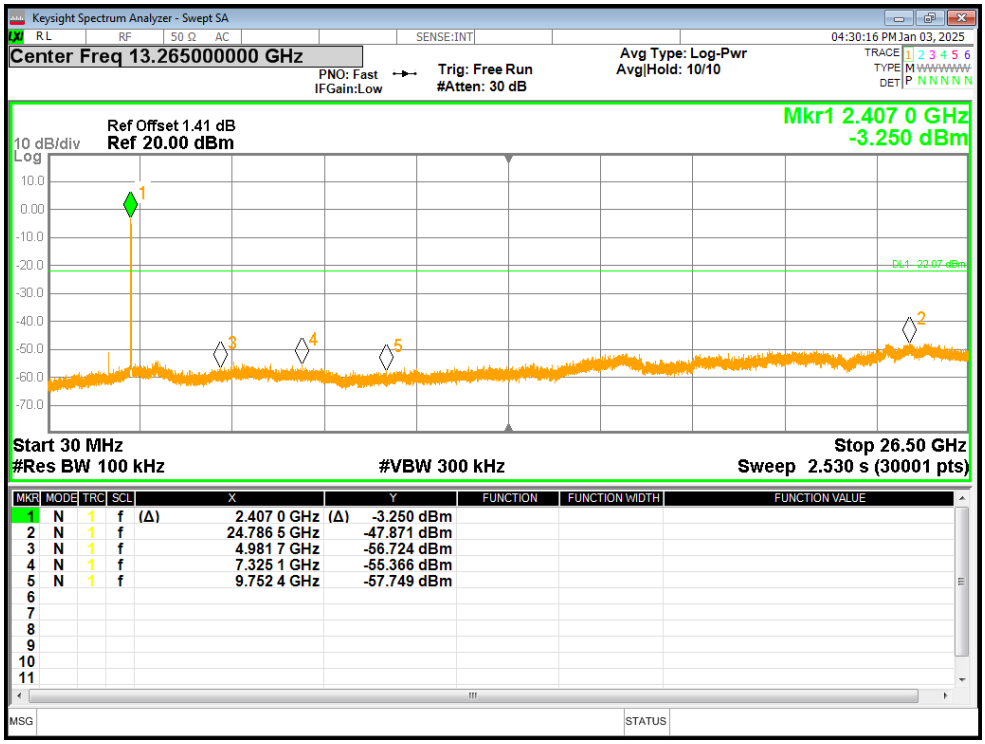
Tx. Spurious NVNT g 2462MHz Ant1 Emission



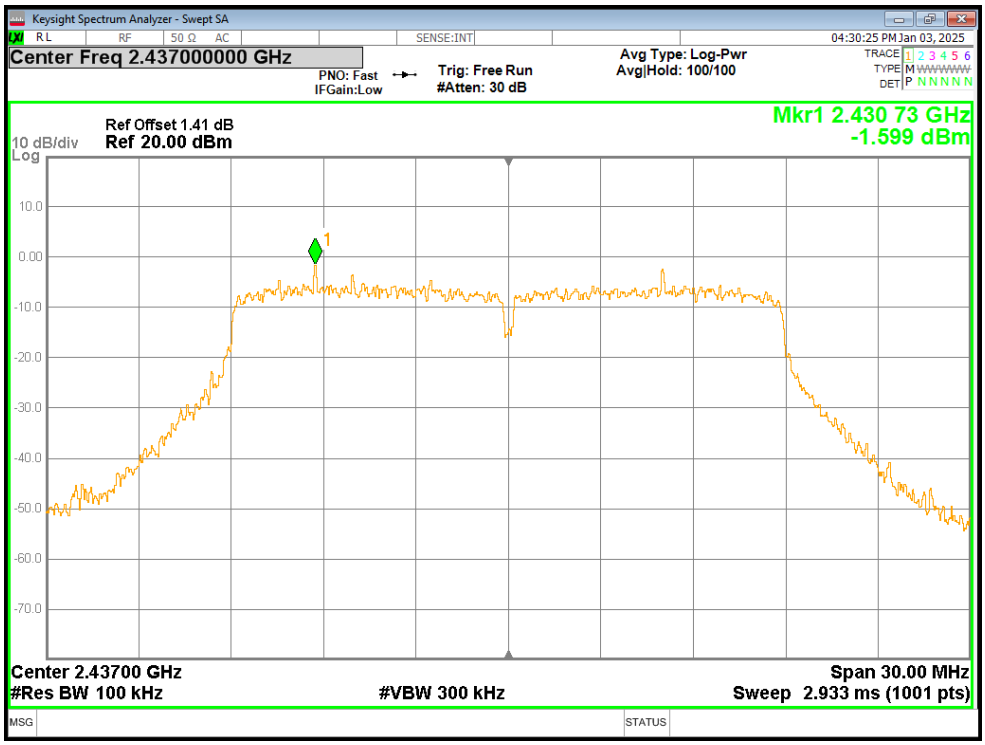
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



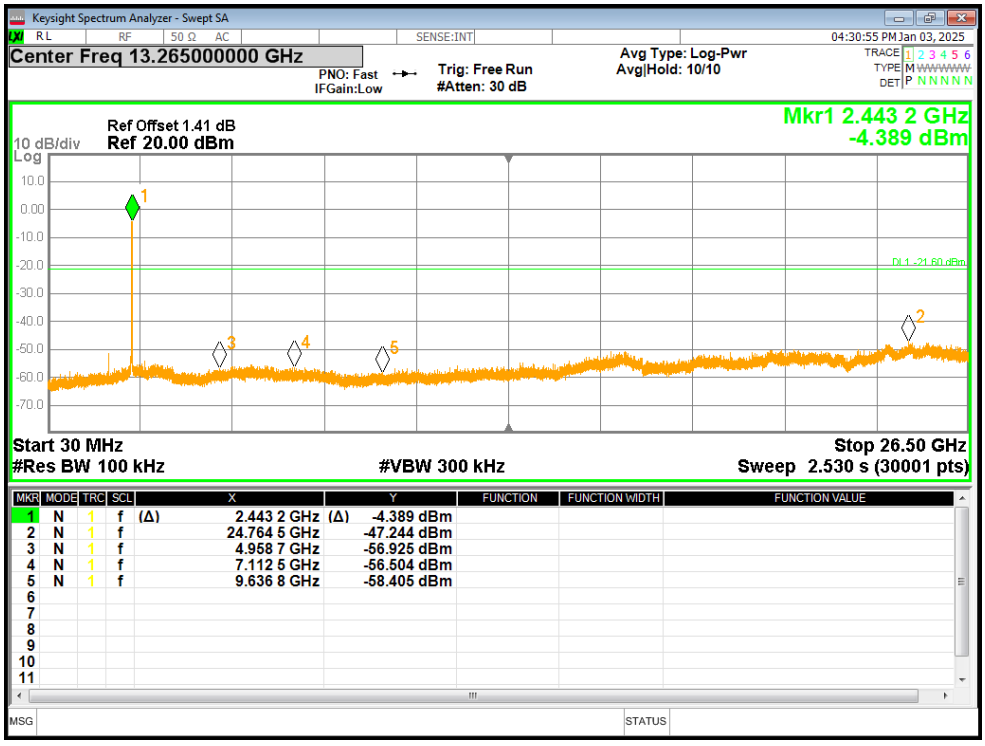
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



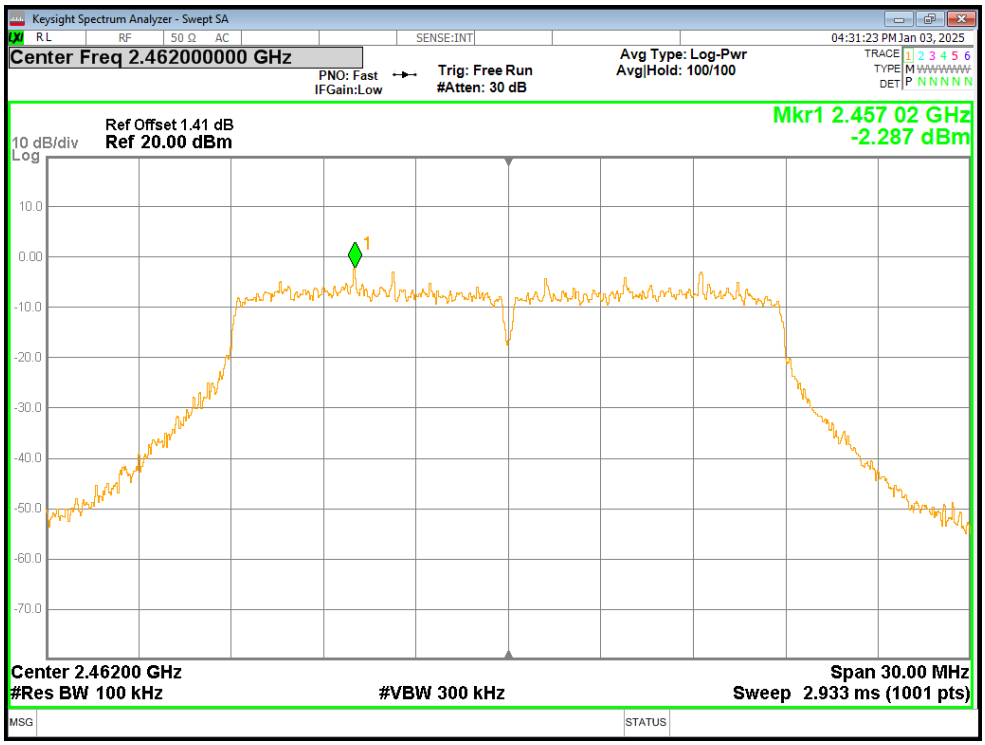
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission