

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	POS SYSTEM
Test Model:	PAI
Sample ID:	HC-C-202504-0041-01-01
Environmental Conditions	
Temperature:	25.6℃
Relative Humidity:	46.8%
Test Voltage:	DC 3.7V
Test Engineer:	Lily zhang
Note: For a more detailed features description, please refer to the report TBR-C-202504-0041-32 The report only show the worst case data.	

Contents

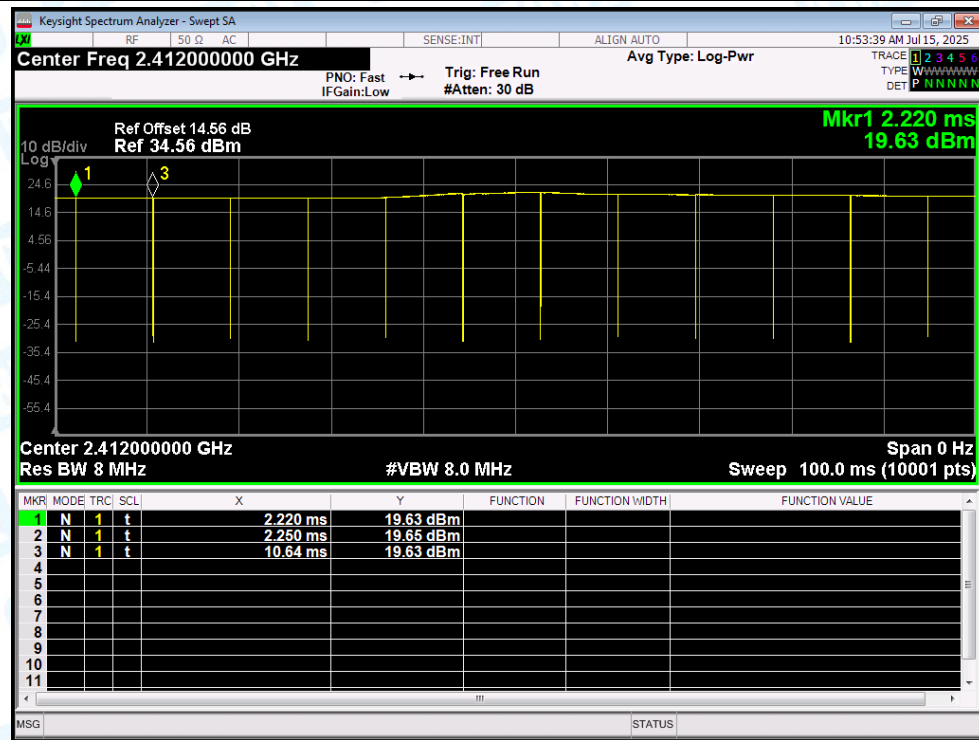
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1. Duty Cycle

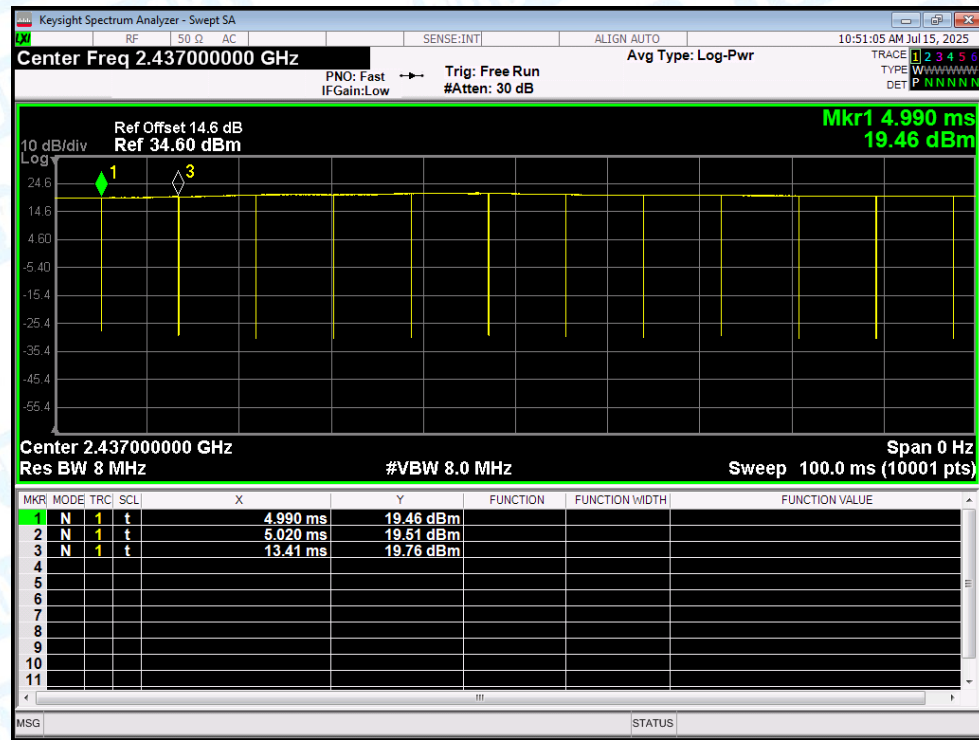
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.64	0.02	0.12
NVNT	b	2437	Ant1	99.64	0.02	0.12
NVNT	b	2462	Ant1	99.64	0.02	0.12
NVNT	g	2412	Ant1	97.2	0.12	0.72
NVNT	g	2437	Ant1	97.2	0.12	0.72
NVNT	g	2462	Ant1	97.9	0.09	0.71
NVNT	n(HT20)	2412	Ant1	97.76	0.1	0.76
NVNT	n(HT20)	2437	Ant1	97.01	0.13	0.77
NVNT	n(HT20)	2462	Ant1	97.76	0.1	0.76
NVNT	n(HT40)	2422	Ant1	94.12	0.26	1.56
NVNT	n(HT40)	2437	Ant1	95.59	0.2	1.54
NVNT	n(HT40)	2452	Ant1	94.2	0.26	1.54

Test Graphs

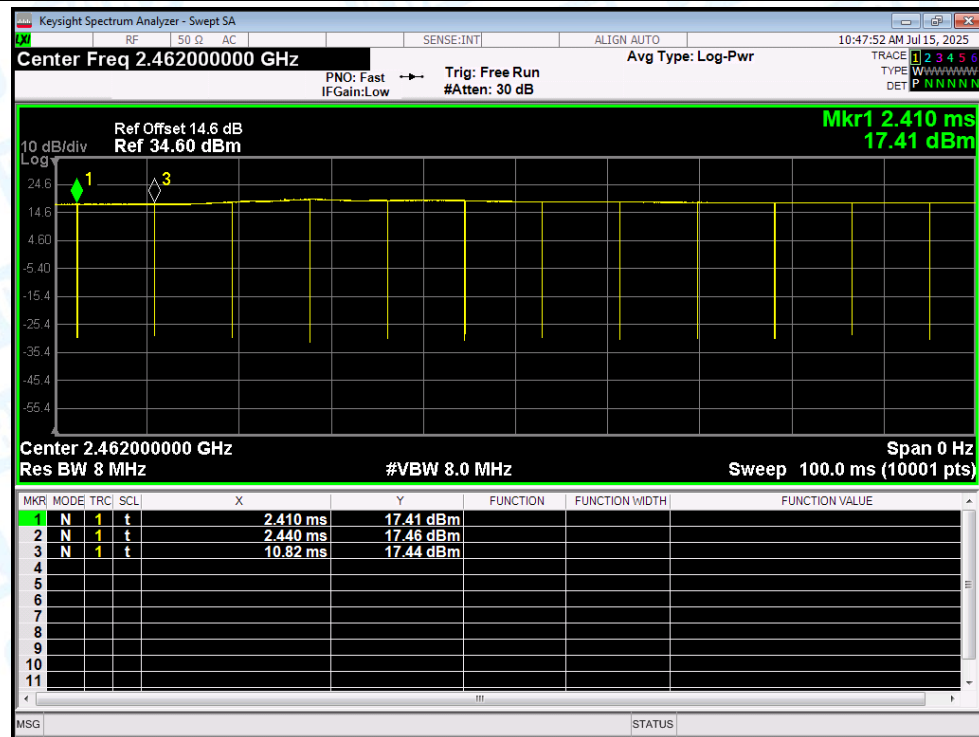
Duty Cycle NVNT b 2412MHz Ant1



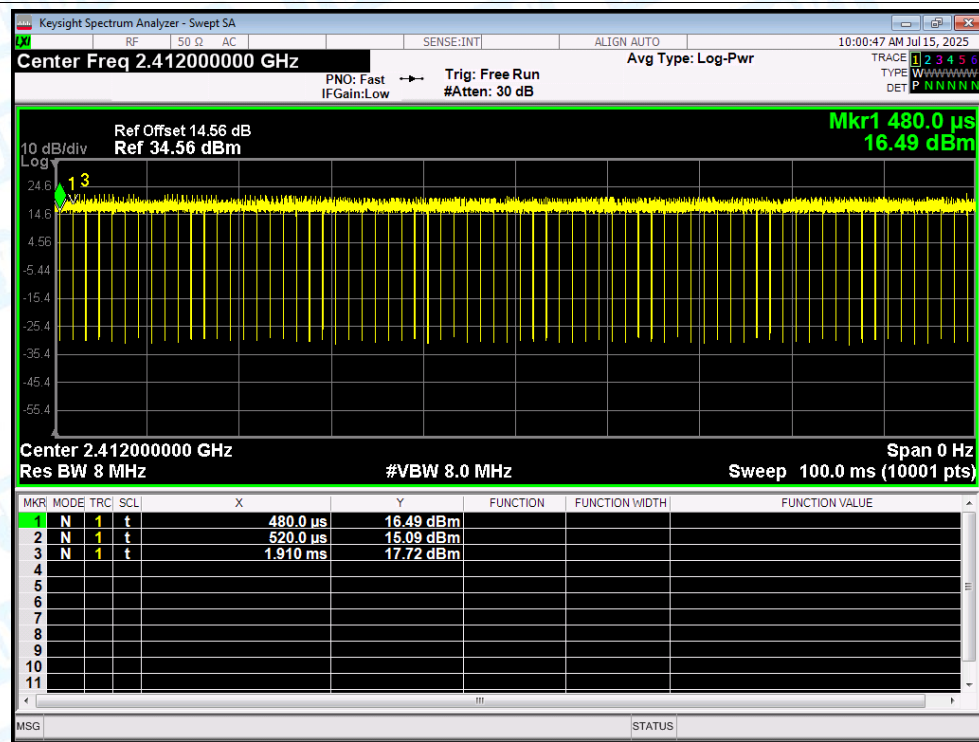
Duty Cycle NVNT b 2437MHz Ant1



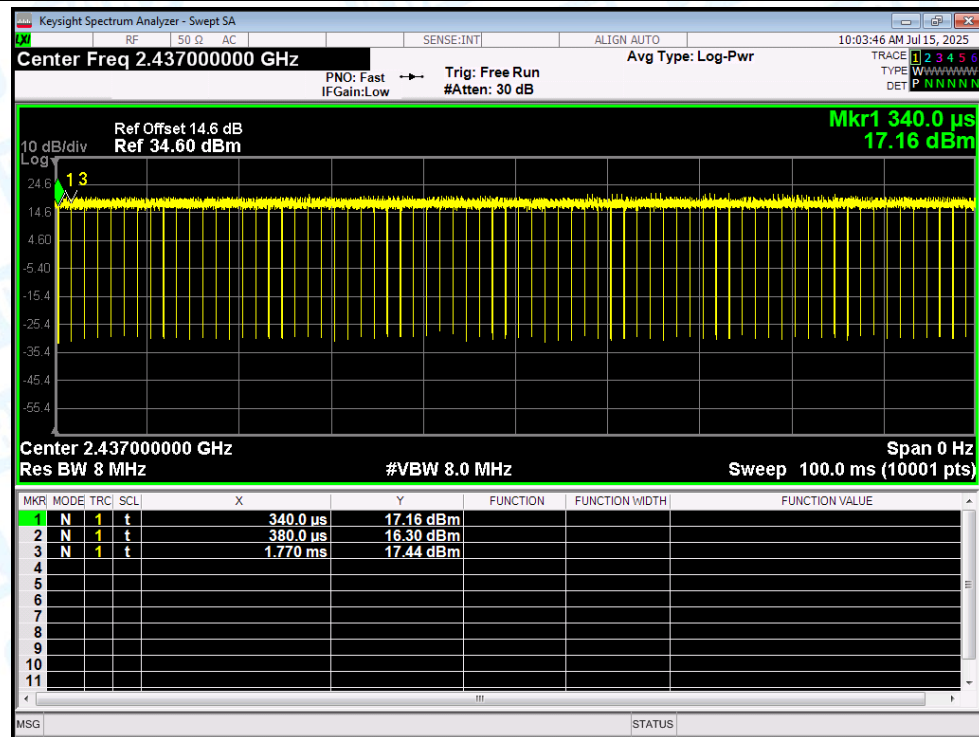
Duty Cycle NVNT b 2462MHz Ant1



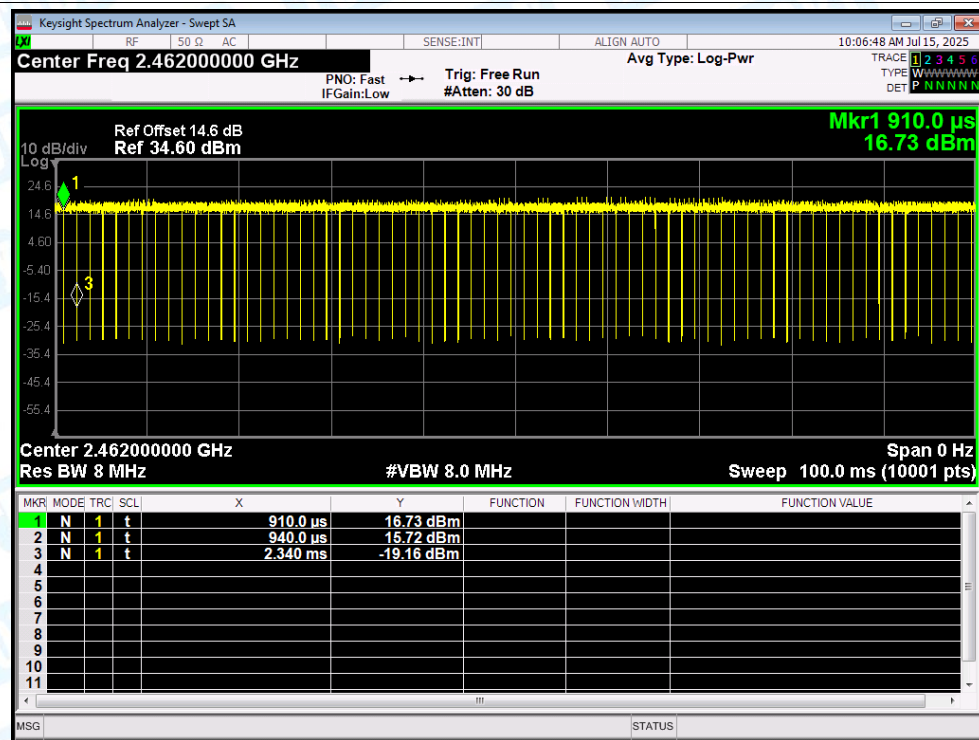
Duty Cycle NVNT g 2412MHz Ant1



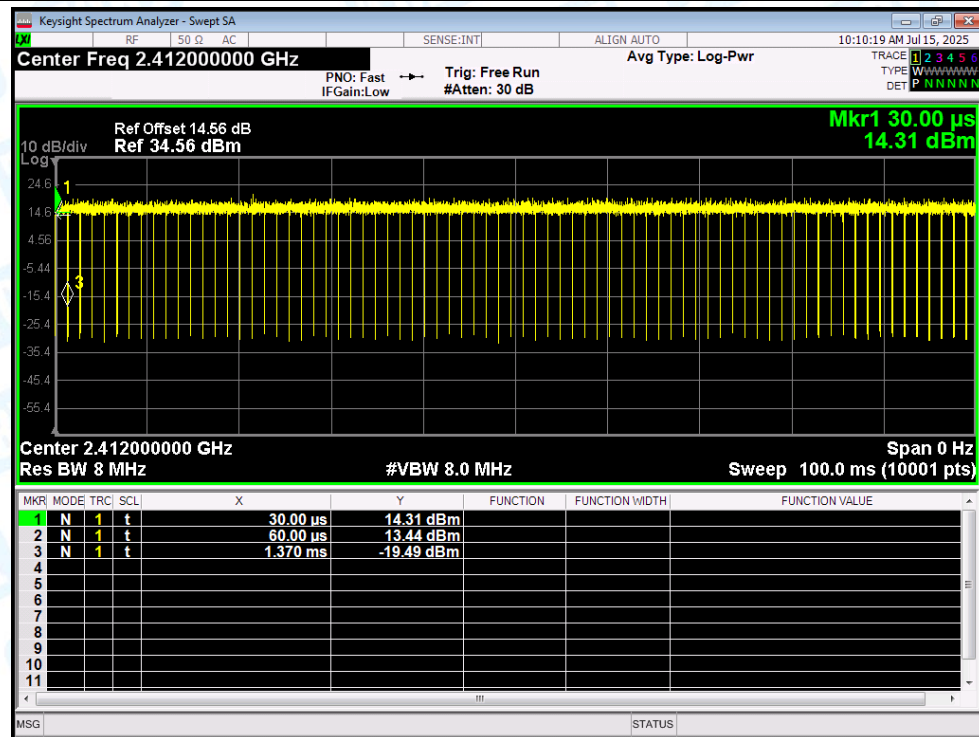
Duty Cycle NVNT g 2437MHz Ant1



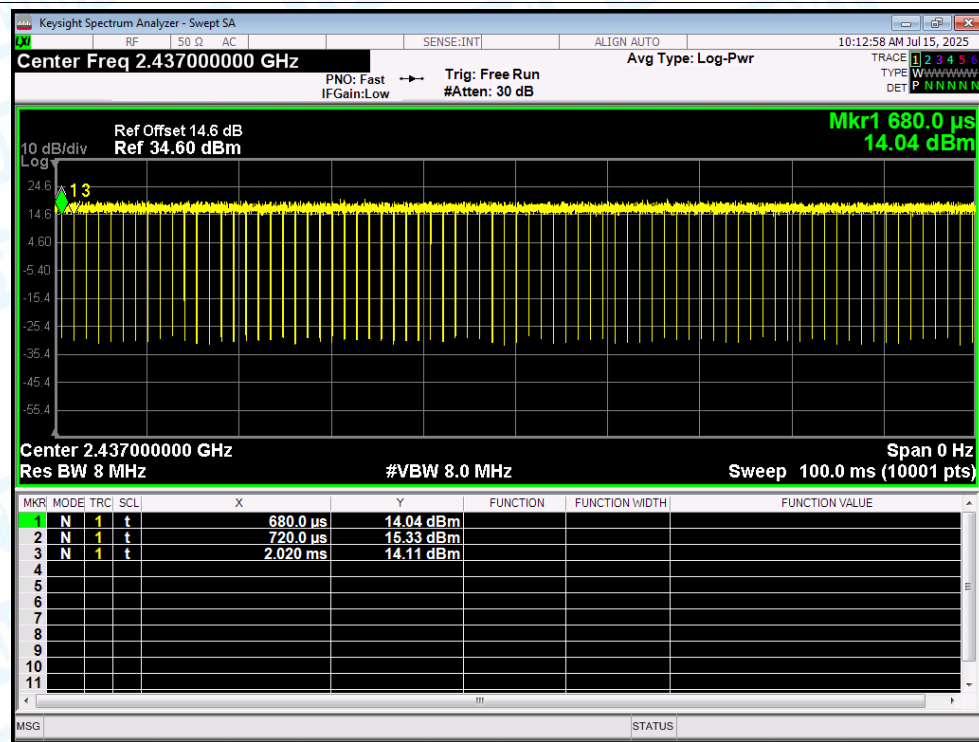
Duty Cycle NVNT g 2462MHz Ant1



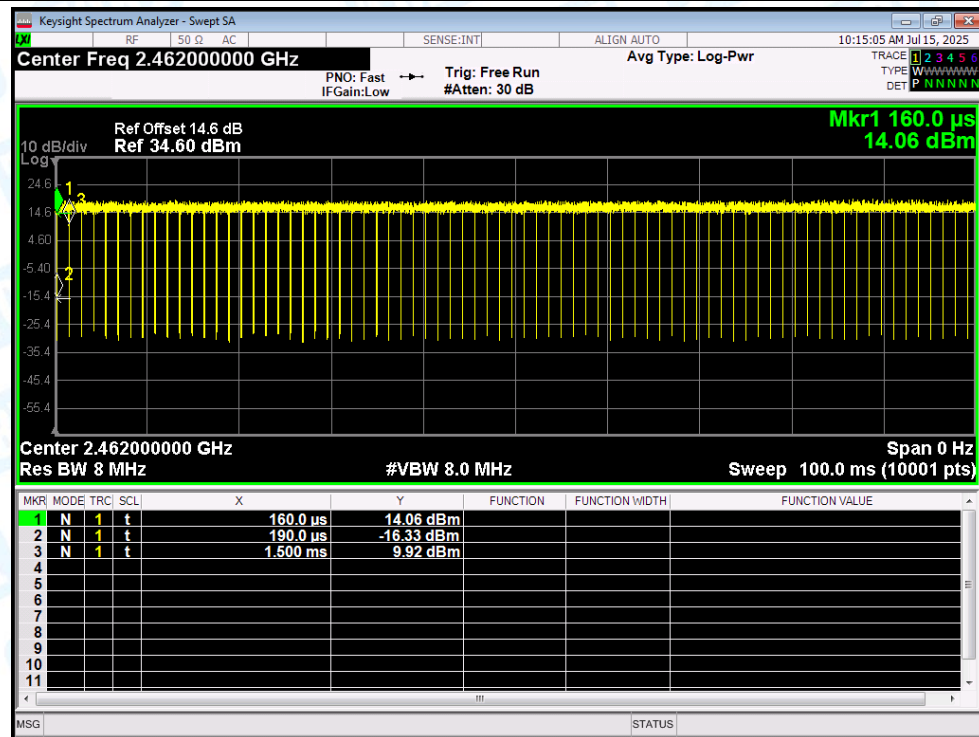
Duty Cycle NVNT n(HT20) 2412MHz Ant1



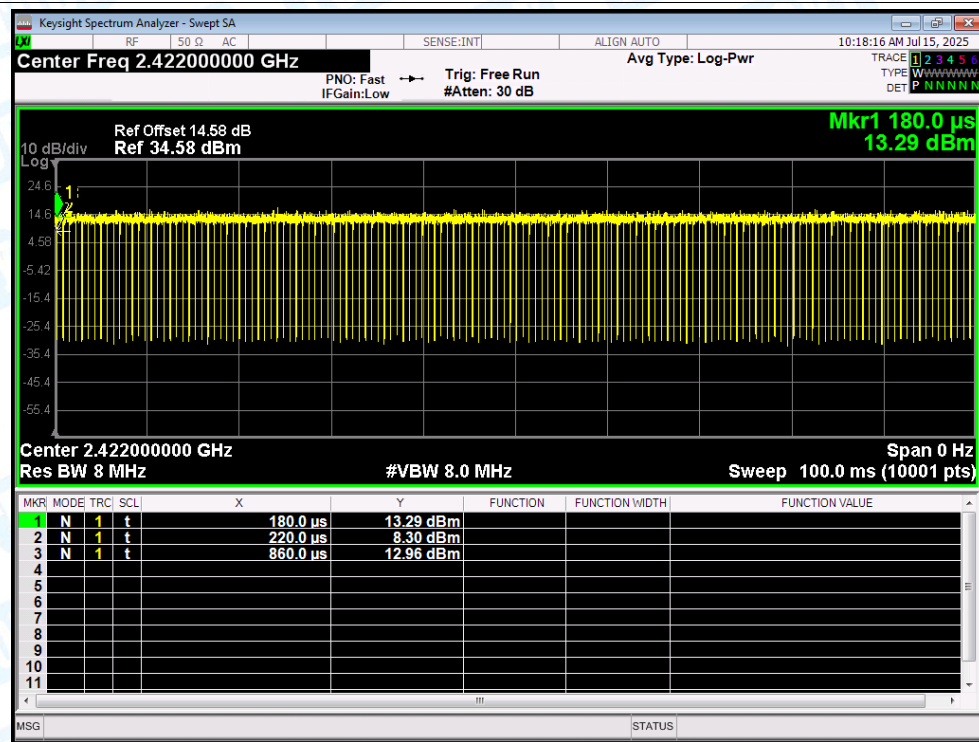
Duty Cycle NVNT n(HT20) 2437MHz Ant1



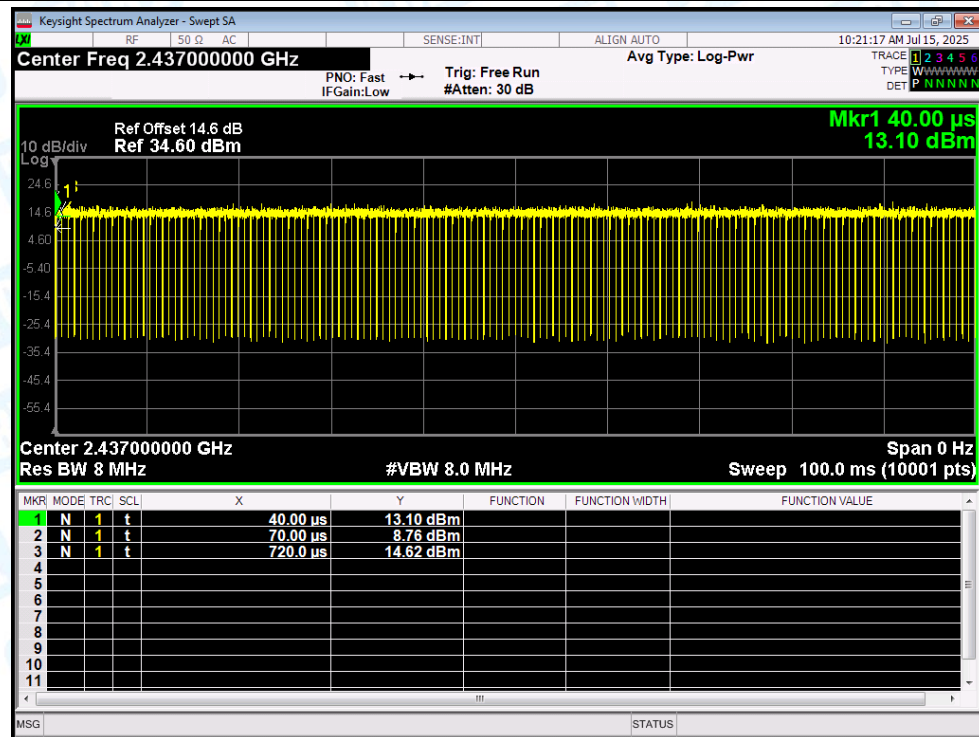
Duty Cycle NVNT n(HT20) 2462MHz Ant1



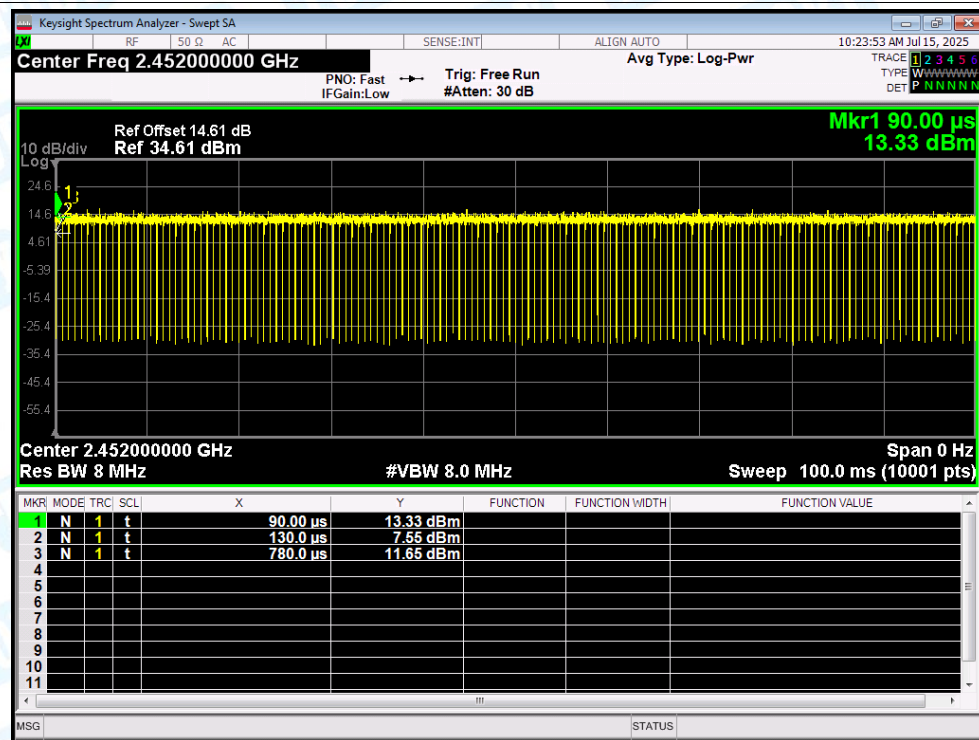
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.46	30	Pass
NVNT	b	2437	Ant1	16.3	30	Pass
NVNT	b	2462	Ant1	14.18	30	Pass
NVNT	g	2412	Ant1	12.86	30	Pass
NVNT	g	2437	Ant1	13.34	30	Pass
NVNT	g	2462	Ant1	12.88	30	Pass
NVNT	n(HT20)	2412	Ant1	11.56	30	Pass
NVNT	n(HT20)	2437	Ant1	12.28	30	Pass
NVNT	n(HT20)	2462	Ant1	12.08	30	Pass
NVNT	n(HT40)	2422	Ant1	11.79	30	Pass
NVNT	n(HT40)	2437	Ant1	12.46	30	Pass
NVNT	n(HT40)	2452	Ant1	12.43	30	Pass

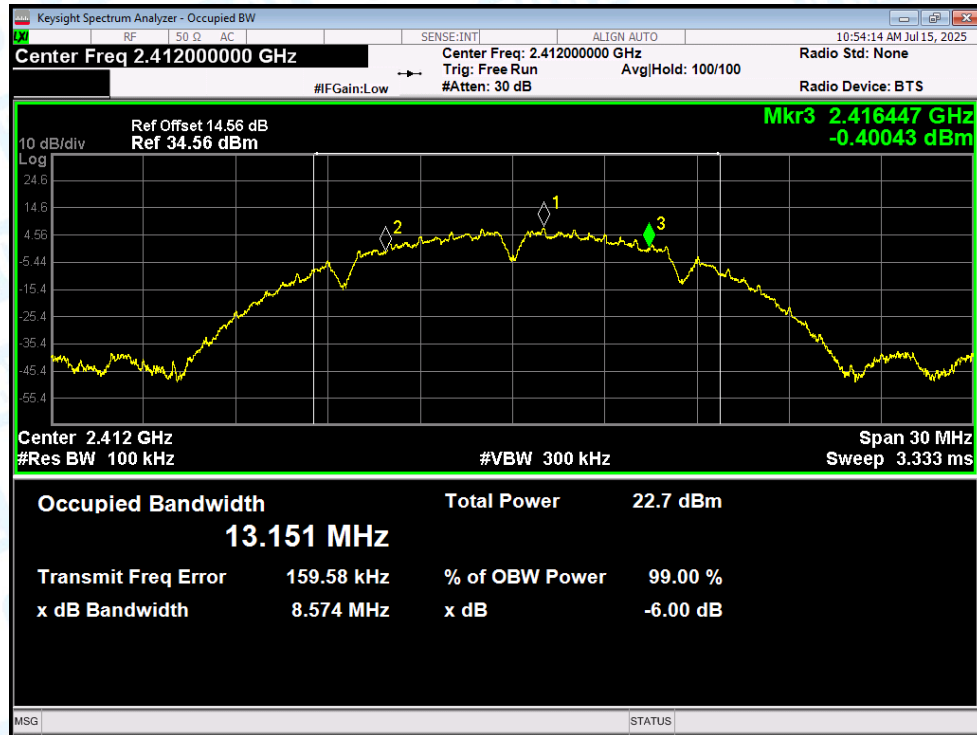
Note: The Duty Cycle Factor is compensated in the graph.

3. -6dB Bandwidth

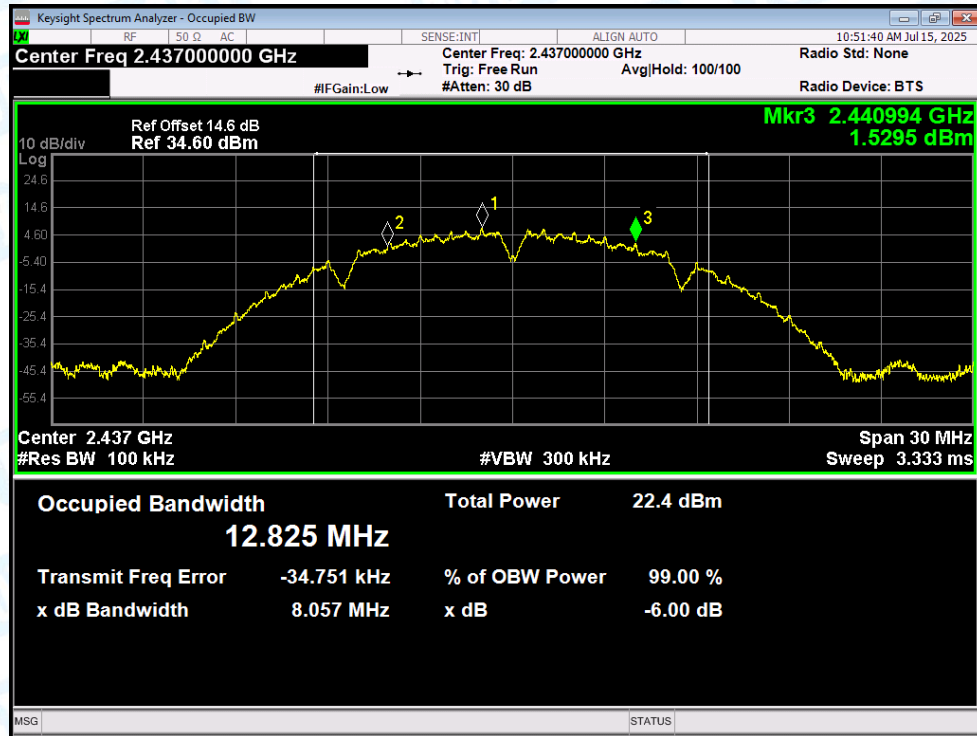
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.57	0.5	Pass
NVNT	b	2437	Ant1	8.06	0.5	Pass
NVNT	b	2462	Ant1	8.08	0.5	Pass
NVNT	g	2412	Ant1	15.65	0.5	Pass
NVNT	g	2437	Ant1	12.52	0.5	Pass
NVNT	g	2462	Ant1	15.43	0.5	Pass
NVNT	n(HT20)	2412	Ant1	16.25	0.5	Pass
NVNT	n(HT20)	2437	Ant1	14.99	0.5	Pass
NVNT	n(HT20)	2462	Ant1	15.94	0.5	Pass
NVNT	n(HT40)	2422	Ant1	33.8	0.5	Pass
NVNT	n(HT40)	2437	Ant1	30.03	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.34	0.5	Pass

Test Graphs

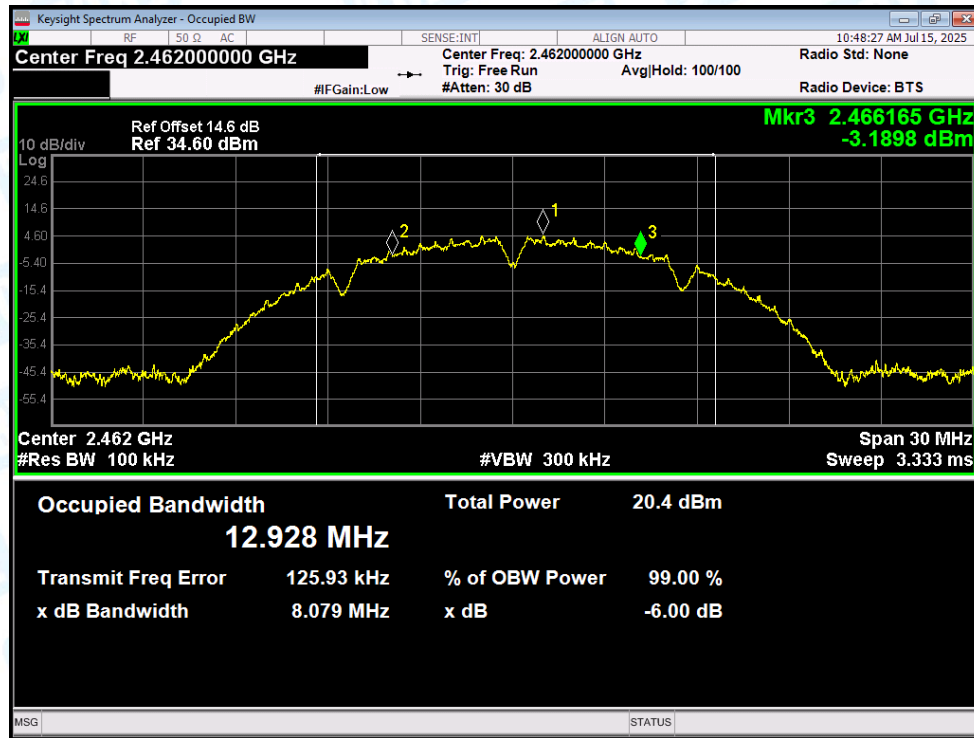
-6dB Bandwidth NVNT b 2412MHz Ant1



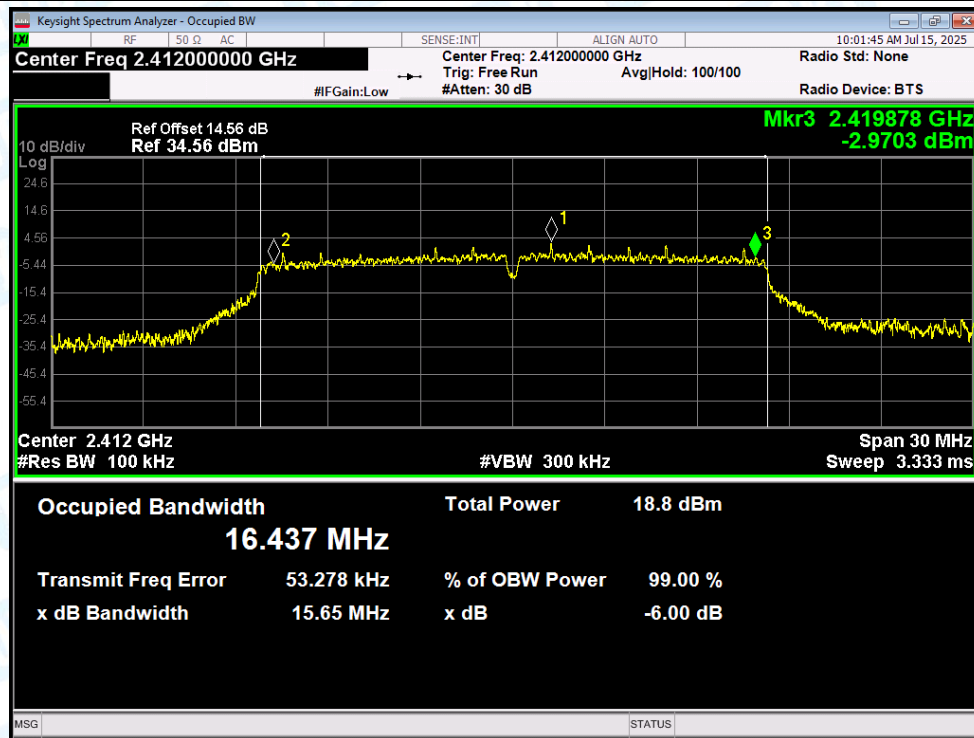
-6dB Bandwidth NVNT b 2437MHz Ant1



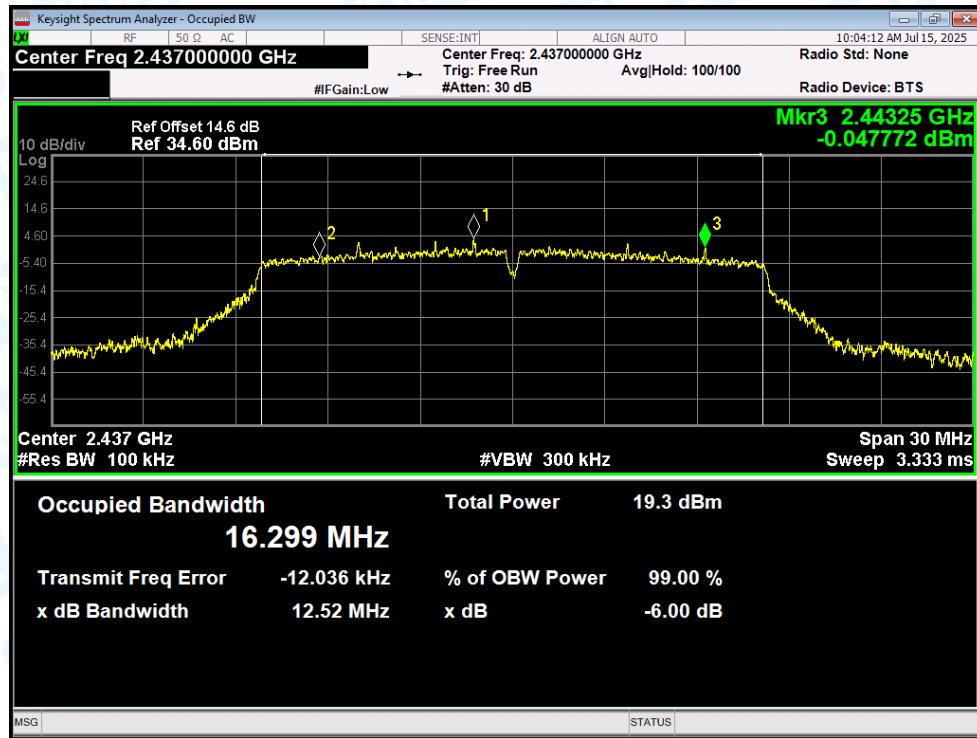
-6dB Bandwidth NVNT b 2462MHz Ant1



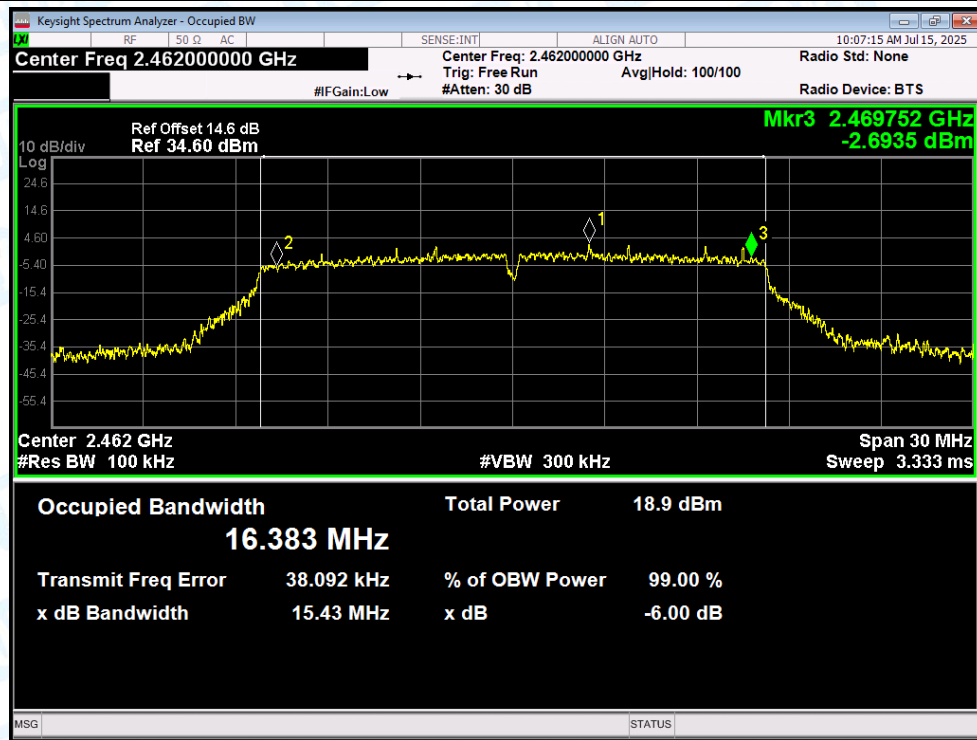
-6dB Bandwidth NVNT g 2412MHz Ant1



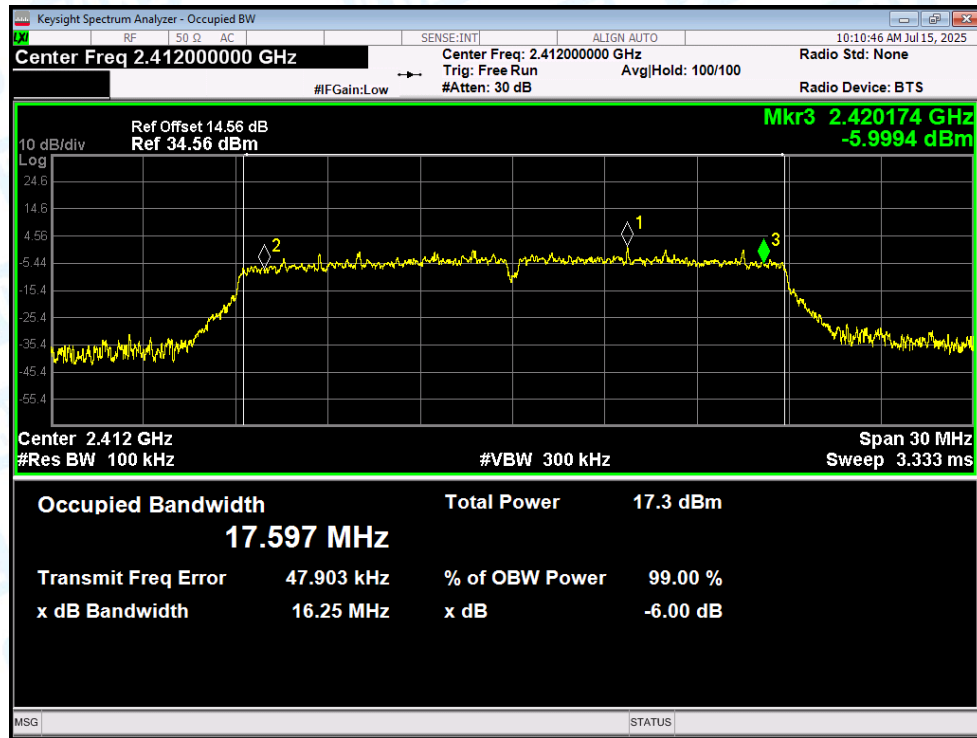
-6dB Bandwidth NVNT g 2437MHz Ant1



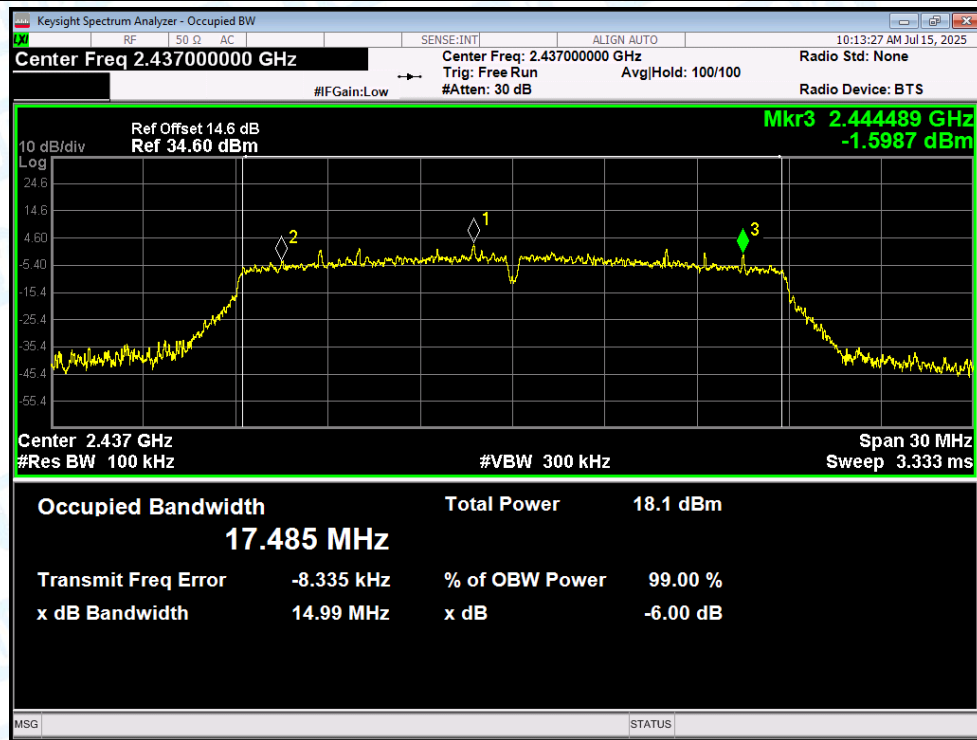
-6dB Bandwidth NVNT g 2462MHz Ant1



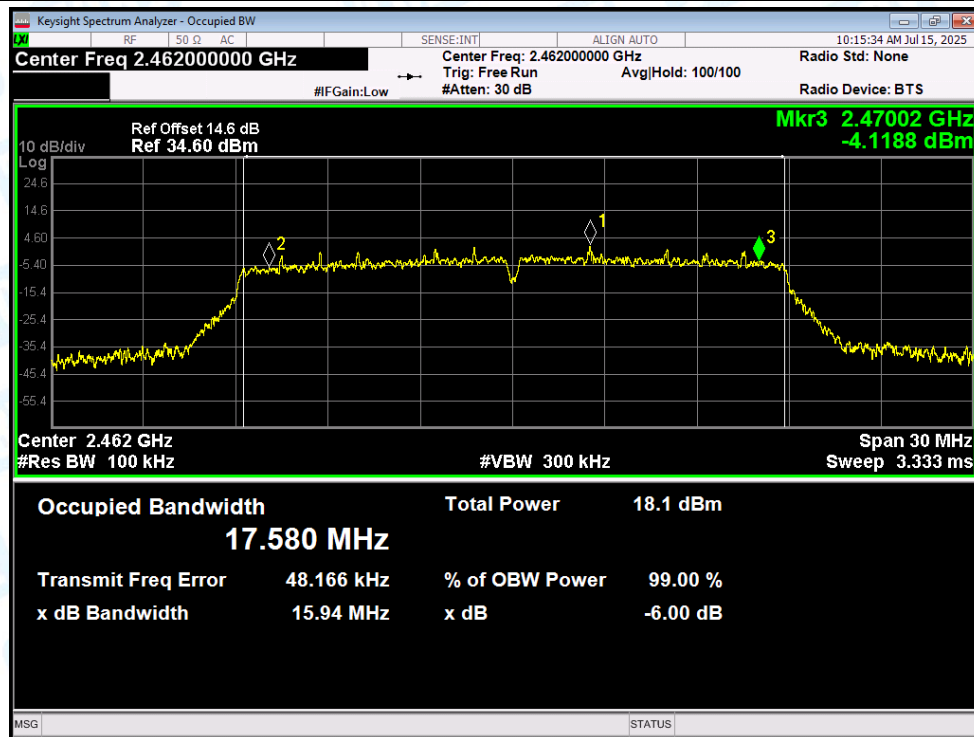
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



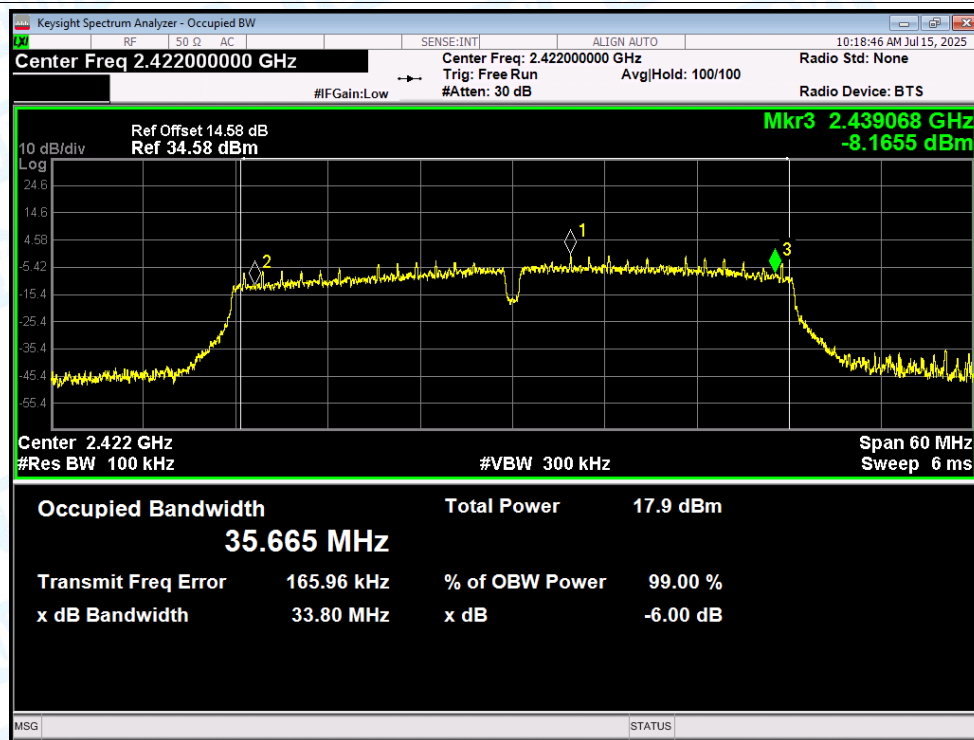
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



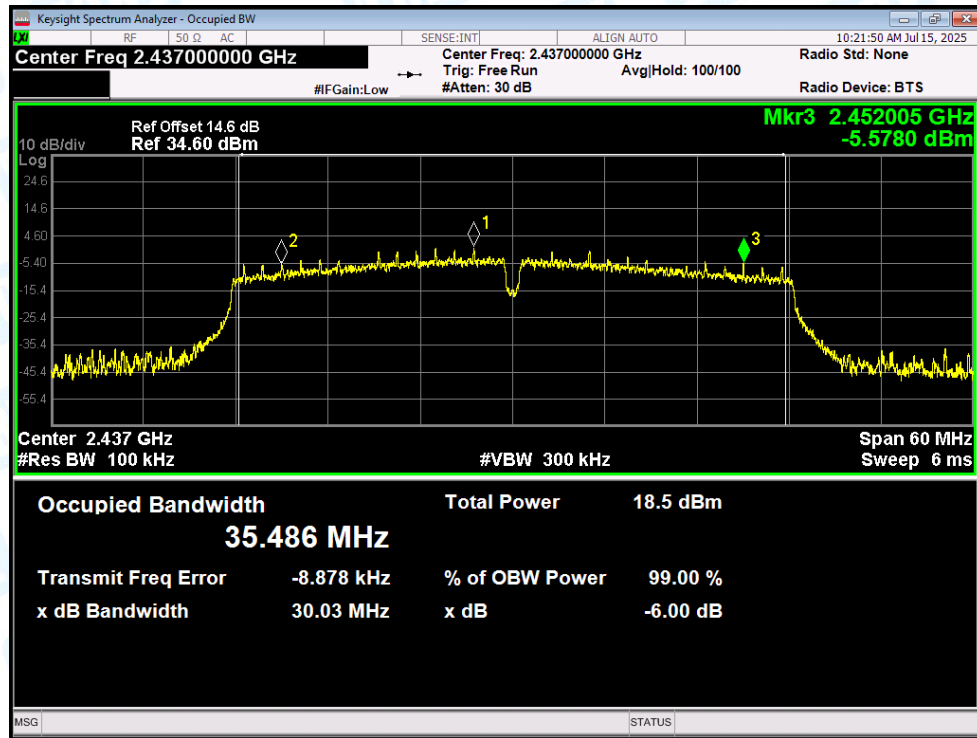
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



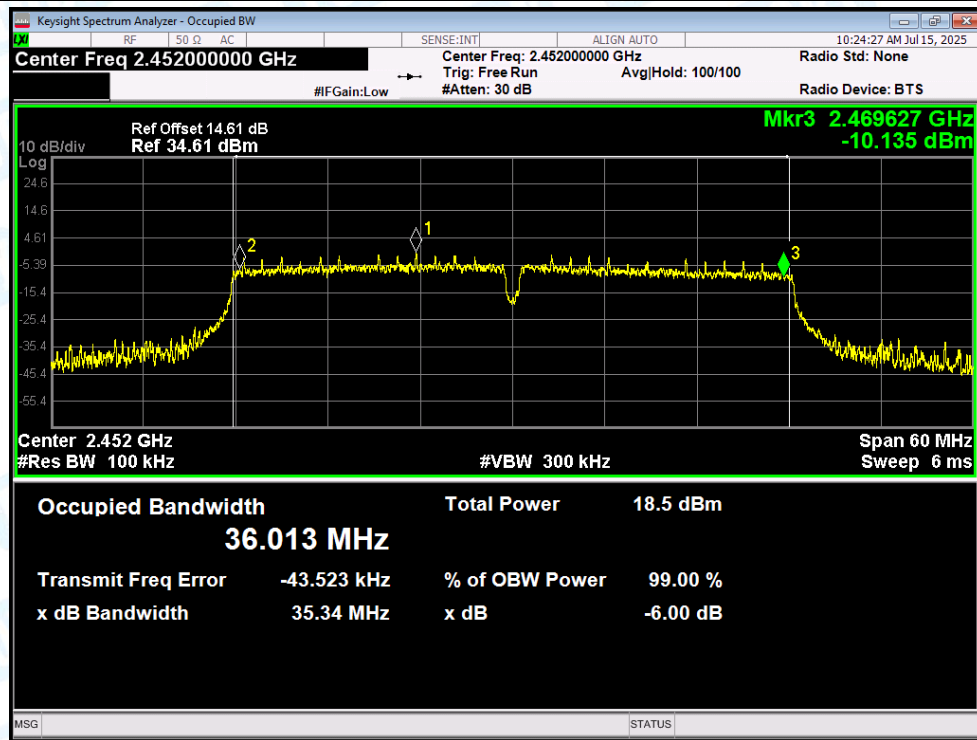
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1

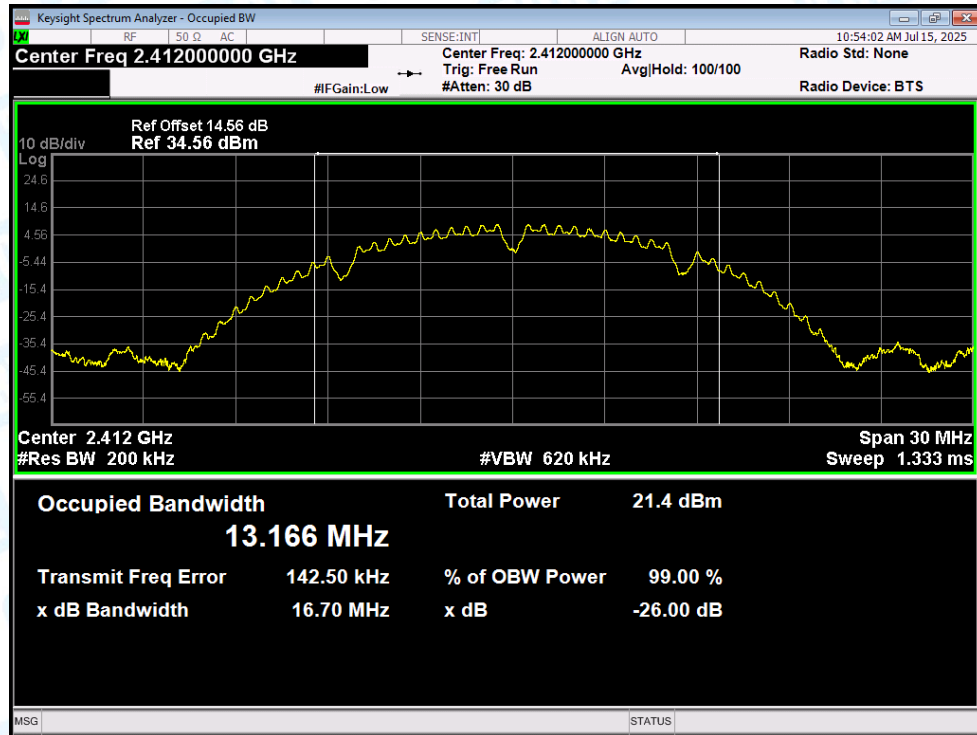


4. Occupied Channel Bandwidth

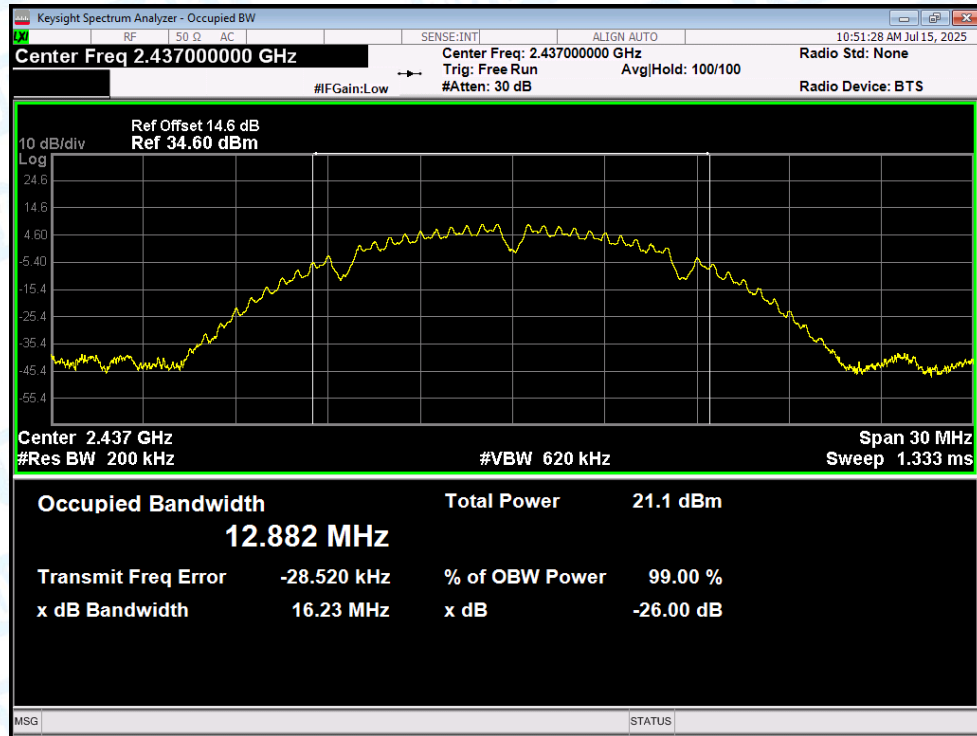
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.166
NVNT	b	2437	Ant1	12.882
NVNT	b	2462	Ant1	12.943
NVNT	g	2412	Ant1	16.593
NVNT	g	2437	Ant1	16.326
NVNT	g	2462	Ant1	16.499
NVNT	n(HT20)	2412	Ant1	17.668
NVNT	n(HT20)	2437	Ant1	17.488
NVNT	n(HT20)	2462	Ant1	17.639
NVNT	n(HT40)	2422	Ant1	35.796
NVNT	n(HT40)	2437	Ant1	35.512
NVNT	n(HT40)	2452	Ant1	36.197

Test Graphs

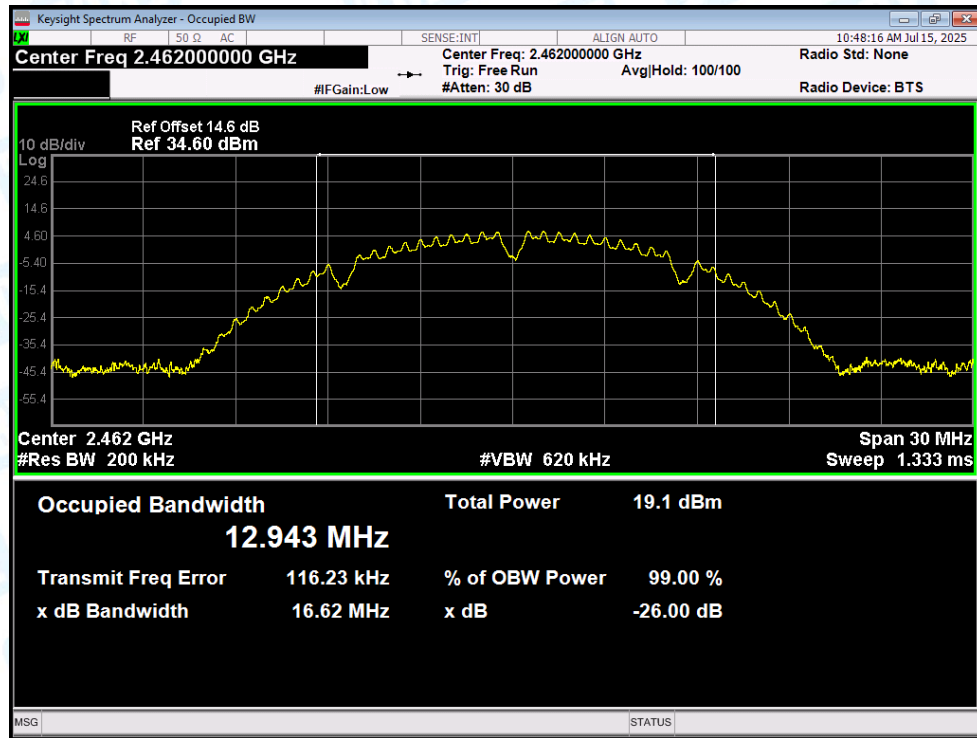
OBW NVNT b 2412MHz Ant1



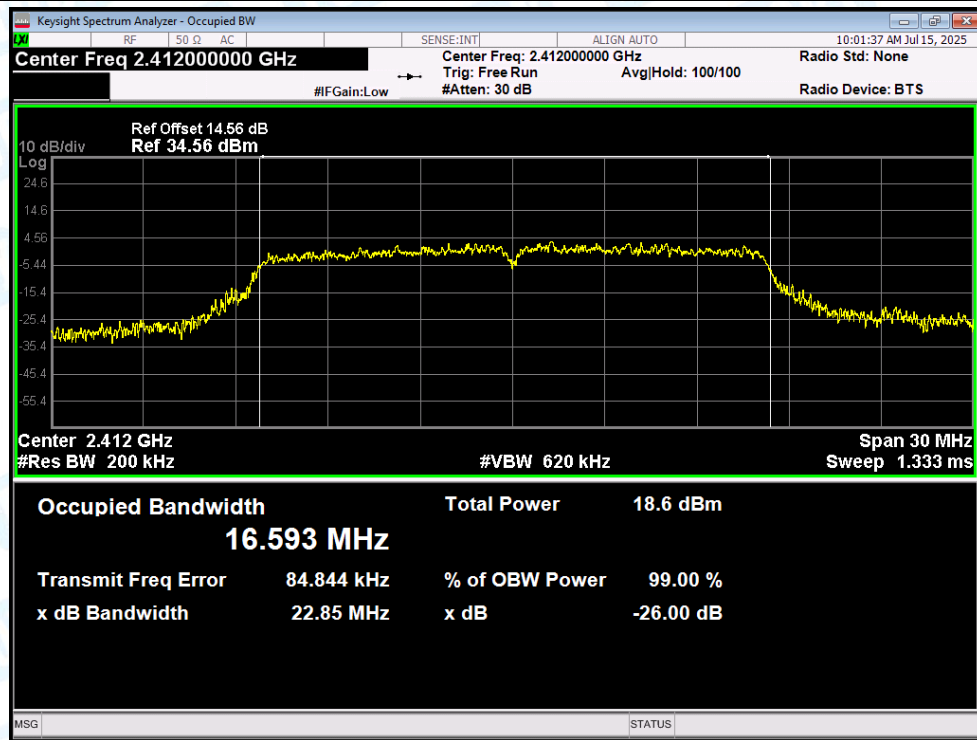
OBW NVNT b 2437MHz Ant1



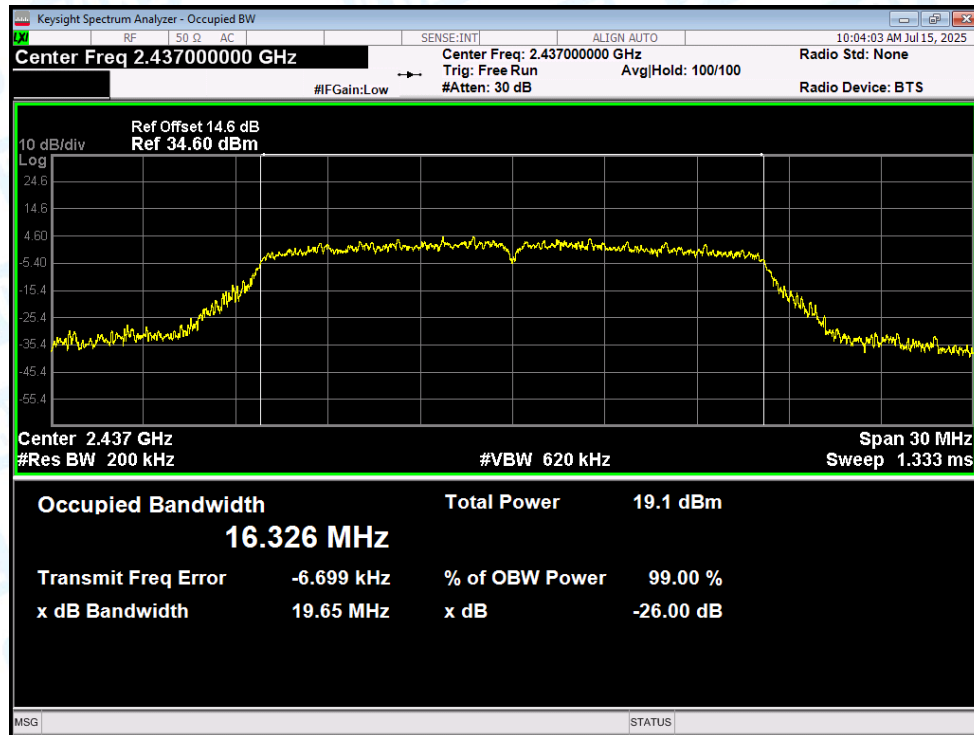
OBW NVNT b 2462MHz Ant1



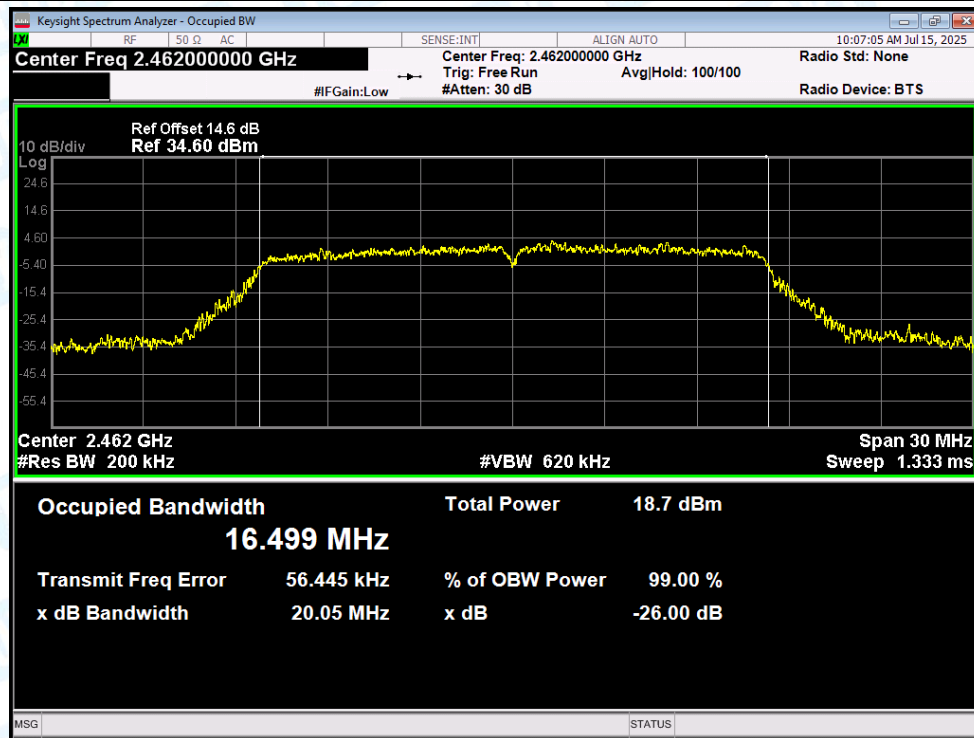
OBW NVNT g 2412MHz Ant1



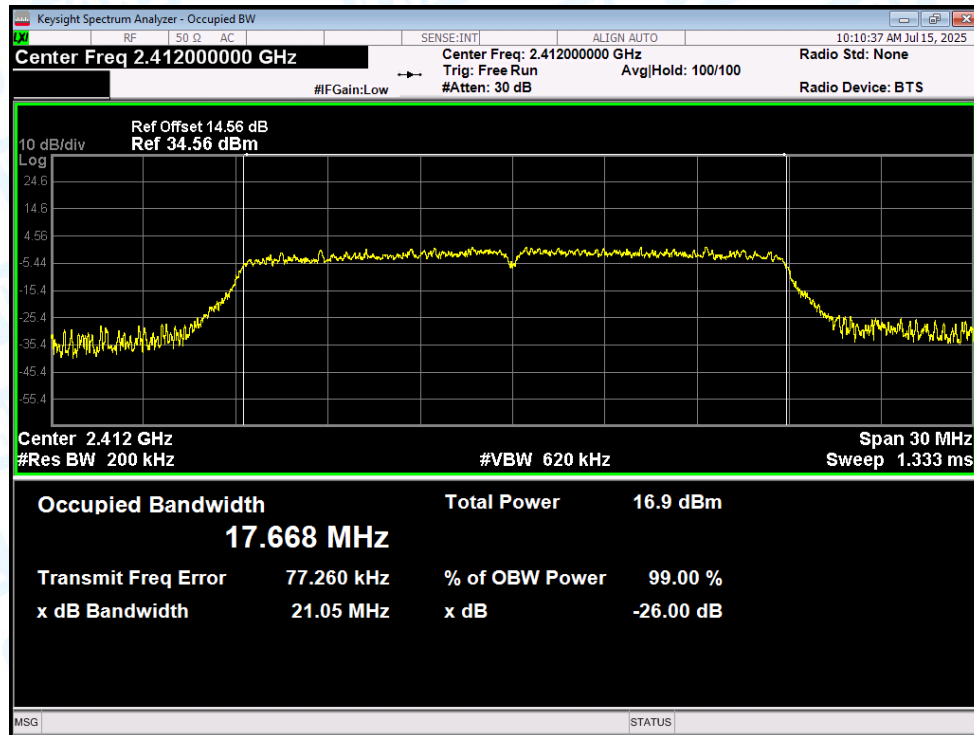
OBW NVNT g 2437MHz Ant1



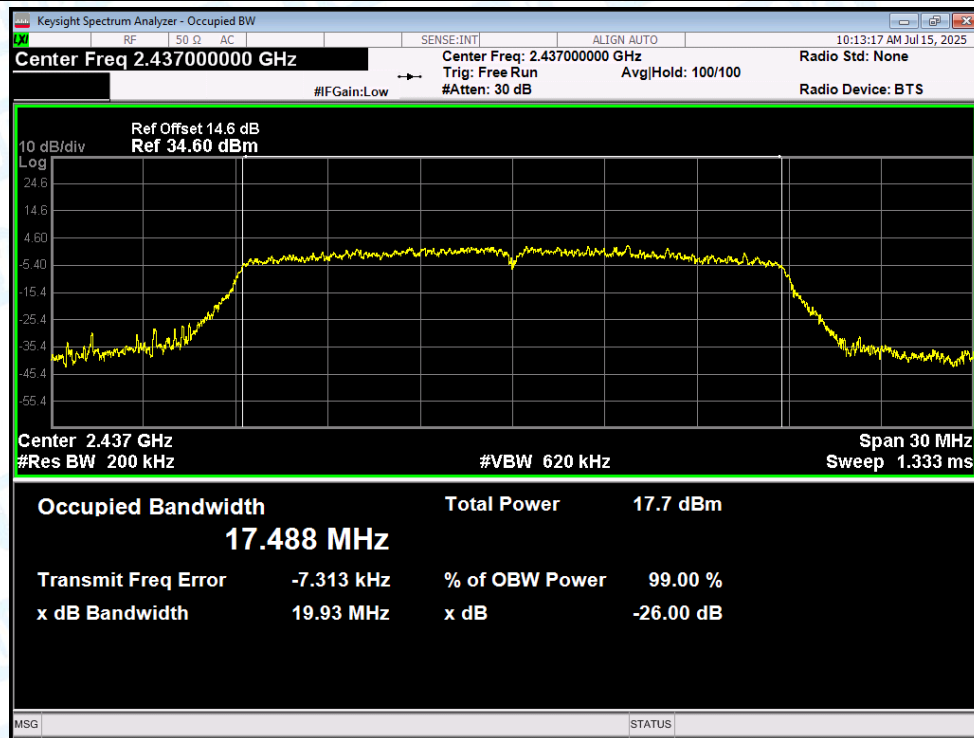
OBW NVNT g 2462MHz Ant1



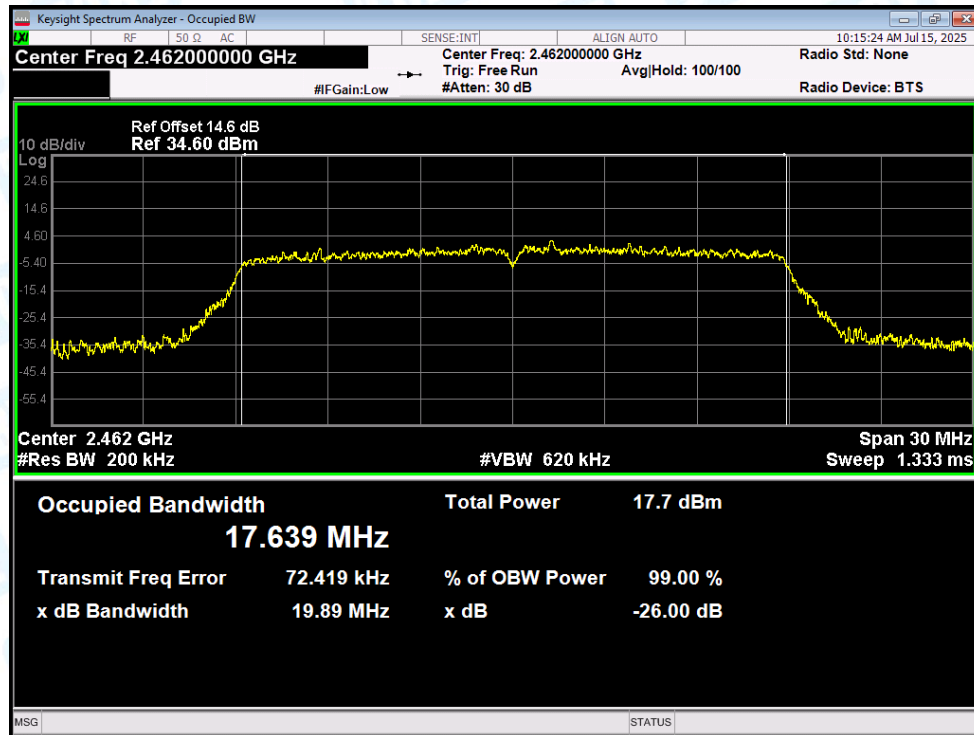
OBW NVNT n(HT20) 2412MHz Ant1



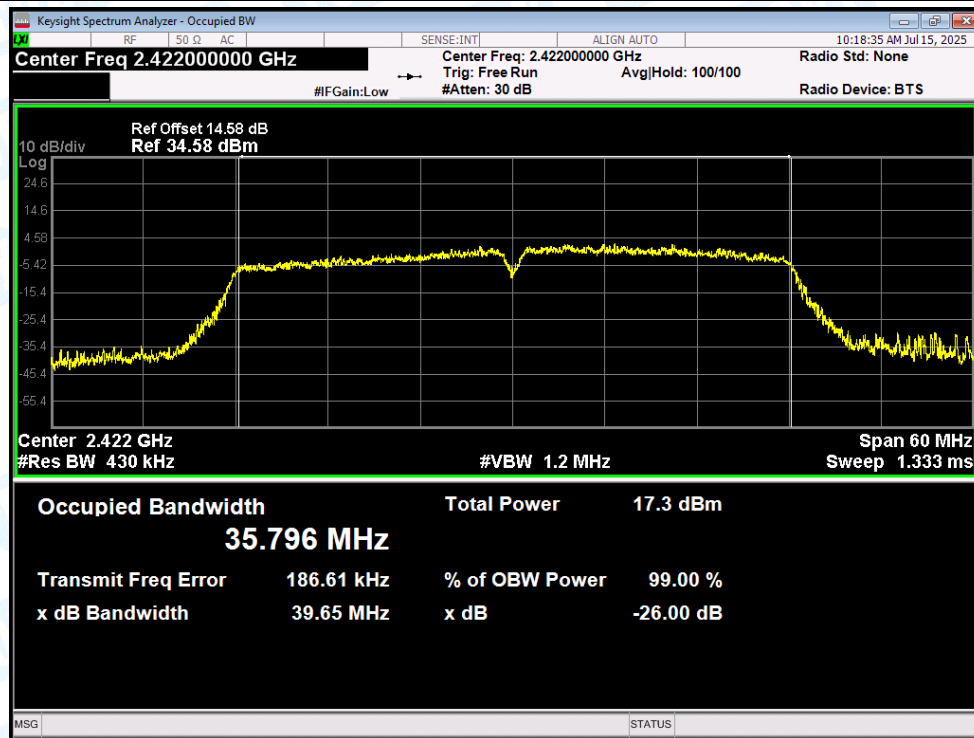
OBW NVNT n(HT20) 2437MHz Ant1



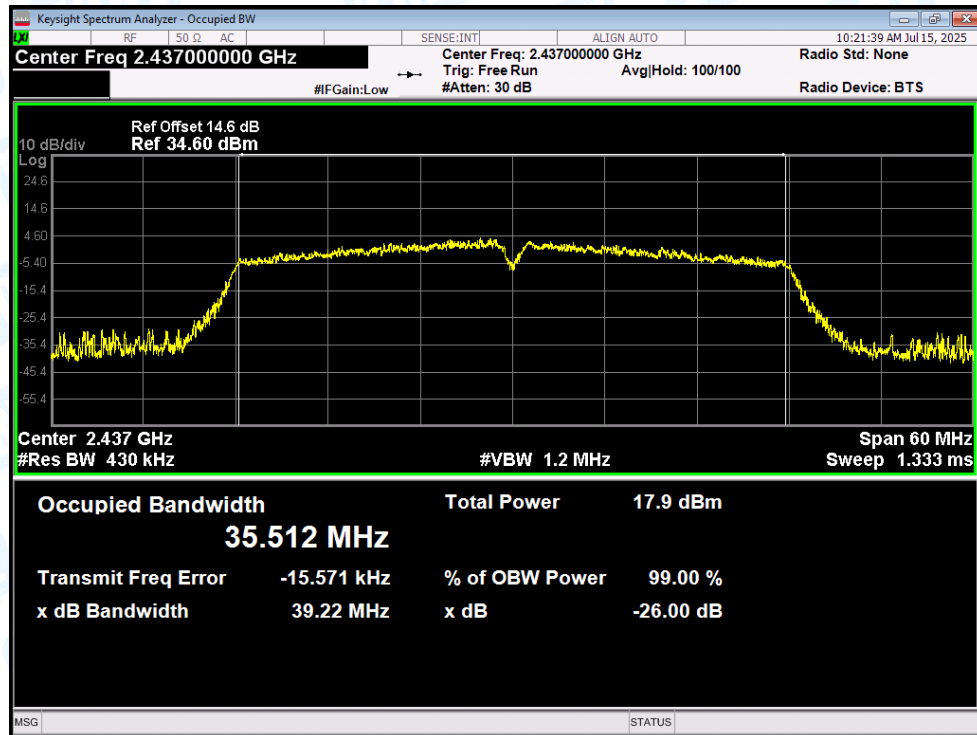
OBW NVNT n(HT20) 2462MHz Ant1



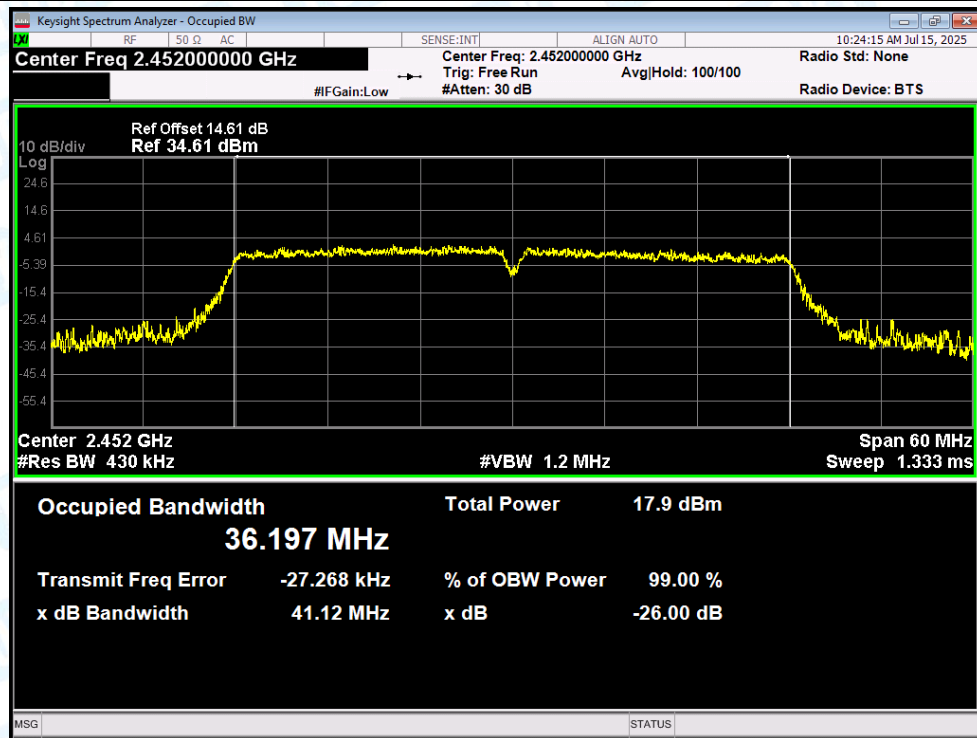
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



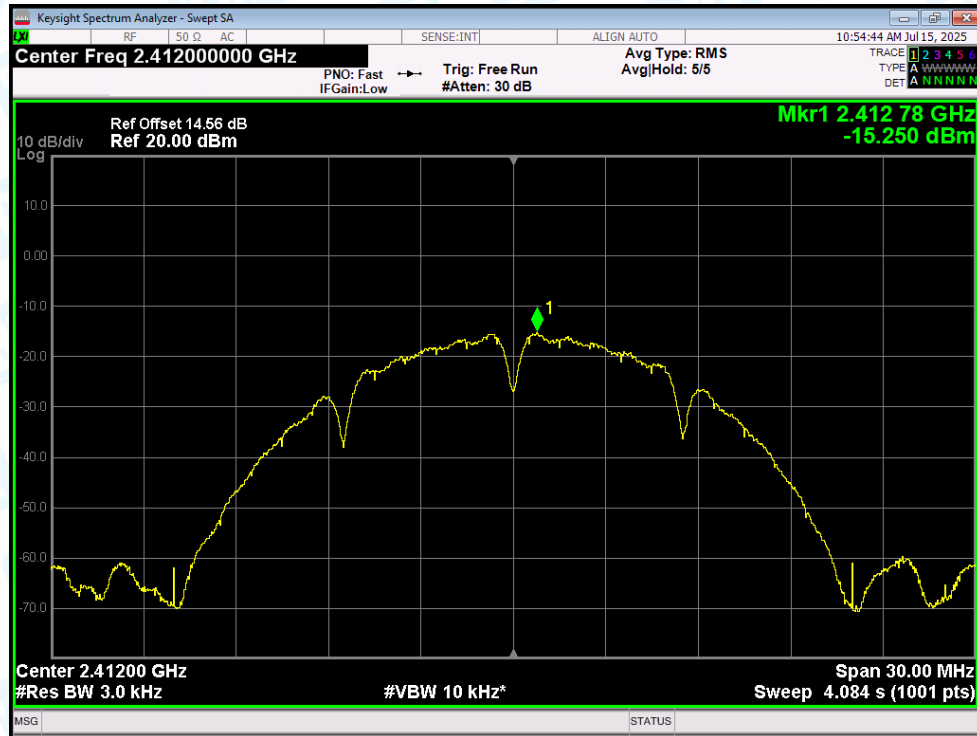
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-15.25	8	Pass
NVNT	b	2437	Ant1	-15.37	8	Pass
NVNT	b	2462	Ant1	-17.425	8	Pass
NVNT	g	2412	Ant1	-21.287	8	Pass
NVNT	g	2437	Ant1	-20.233	8	Pass
NVNT	g	2462	Ant1	-20.834	8	Pass
NVNT	n(HT20)	2412	Ant1	-22.522	8	Pass
NVNT	n(HT20)	2437	Ant1	-21.257	8	Pass
NVNT	n(HT20)	2462	Ant1	-21.96	8	Pass
NVNT	n(HT40)	2422	Ant1	-24.652	8	Pass
NVNT	n(HT40)	2437	Ant1	-23.195	8	Pass
NVNT	n(HT40)	2452	Ant1	-24.722	8	Pass

Note: The Duty Cycle Factor is compensated in the graph.

Test Graphs

PSD NVNT b 2412MHz Ant1



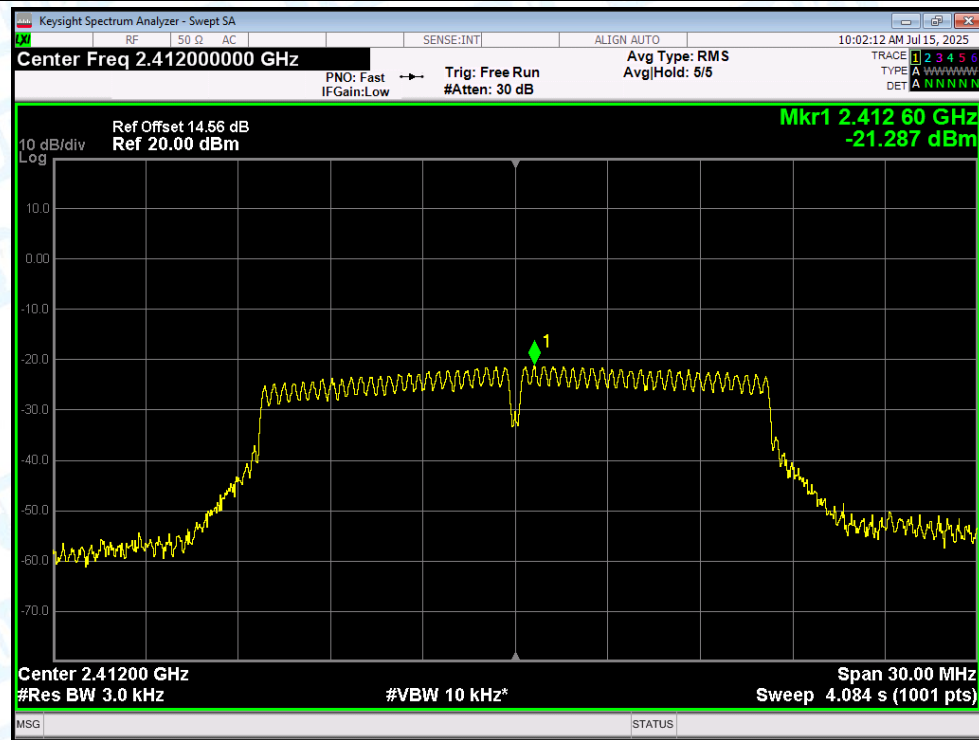
PSD NVNT b 2437MHz Ant1



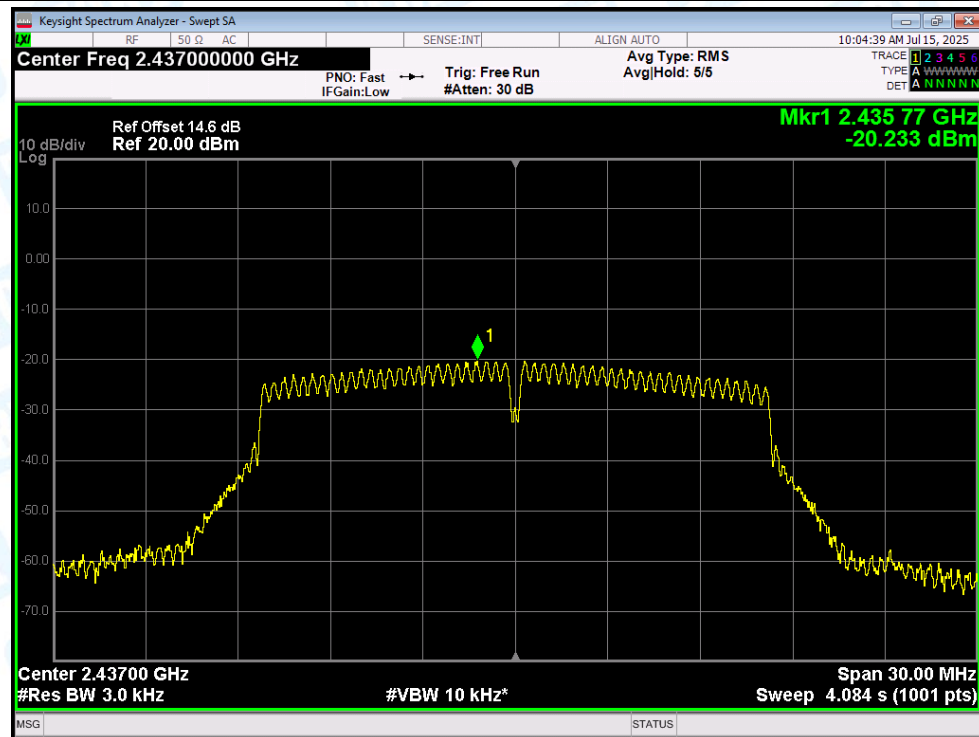
PSD NVNT b 2462MHz Ant1



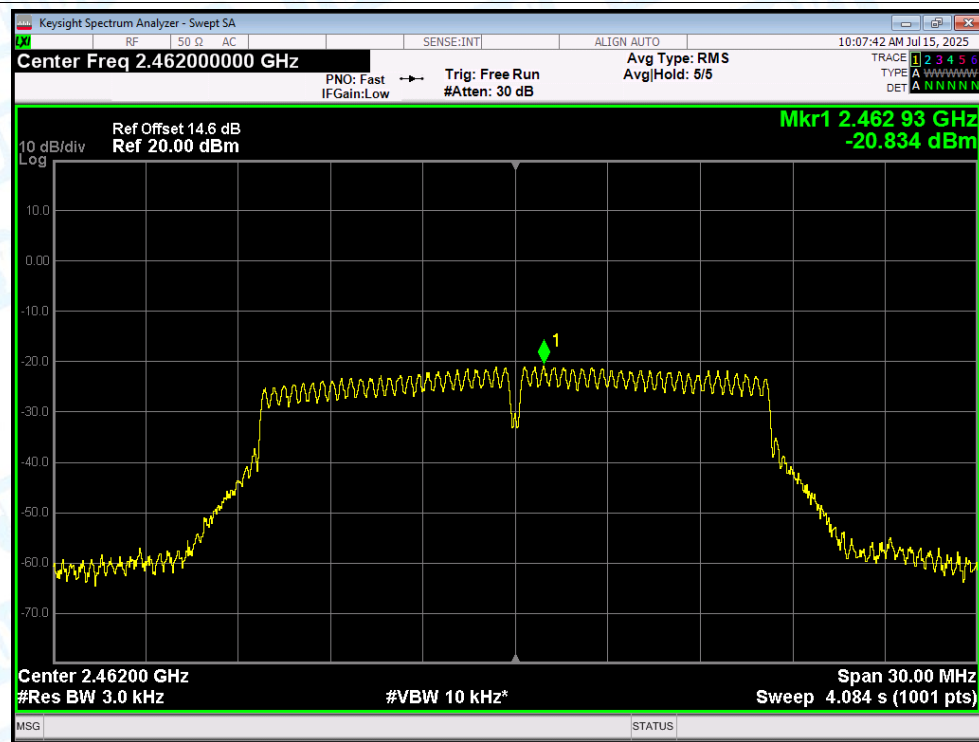
PSD NVNT g 2412MHz Ant1



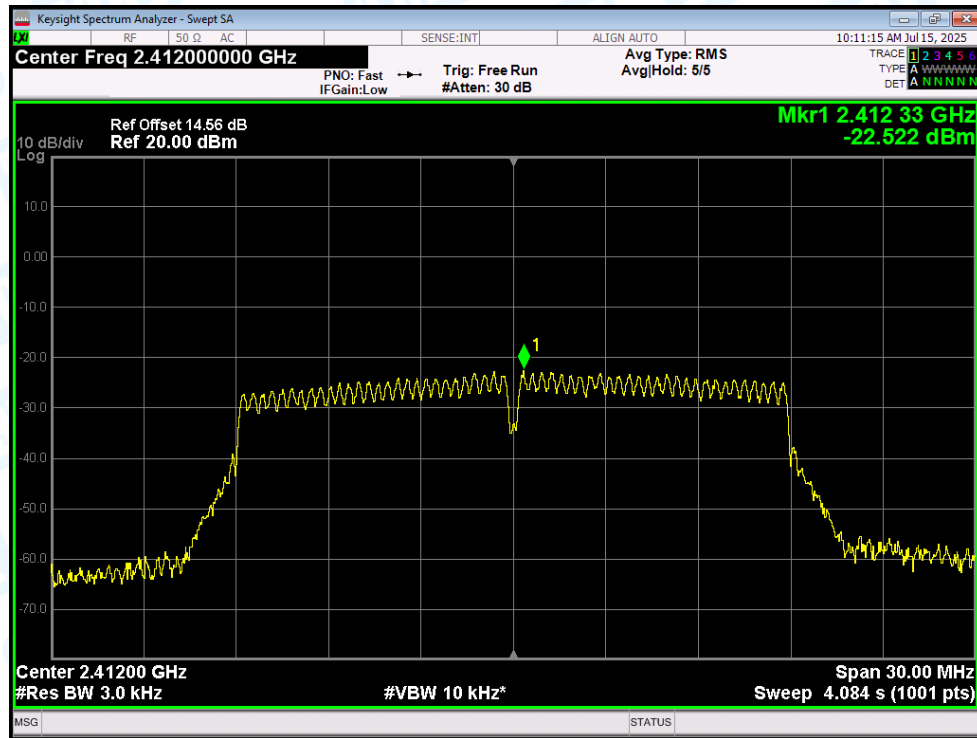
PSD NVNT g 2437MHz Ant1



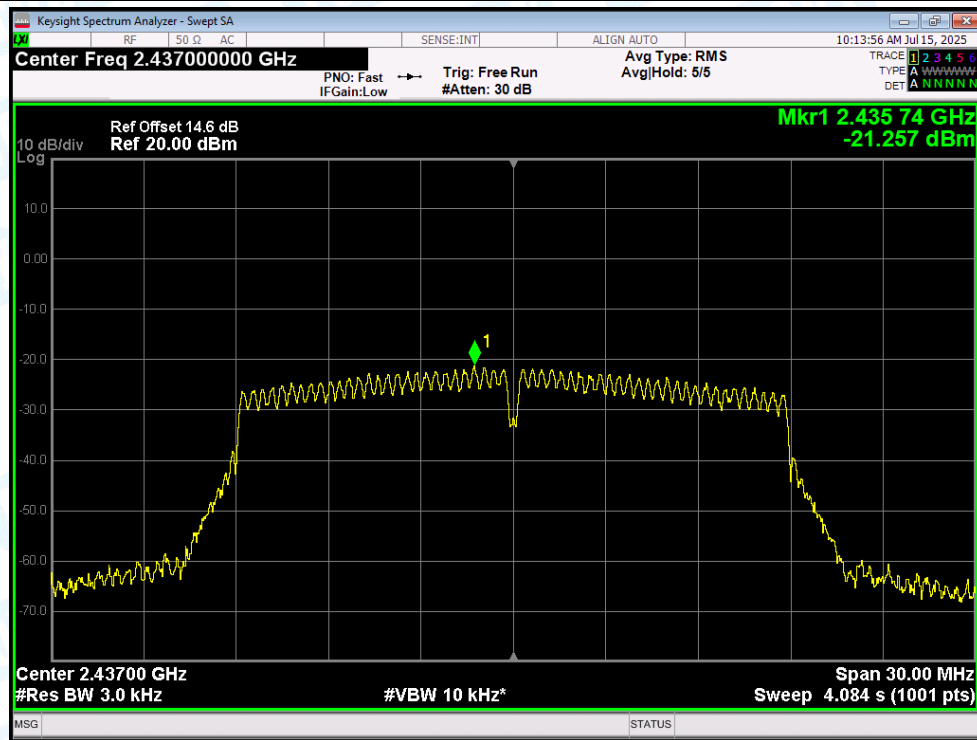
PSD NVNT g 2462MHz Ant1



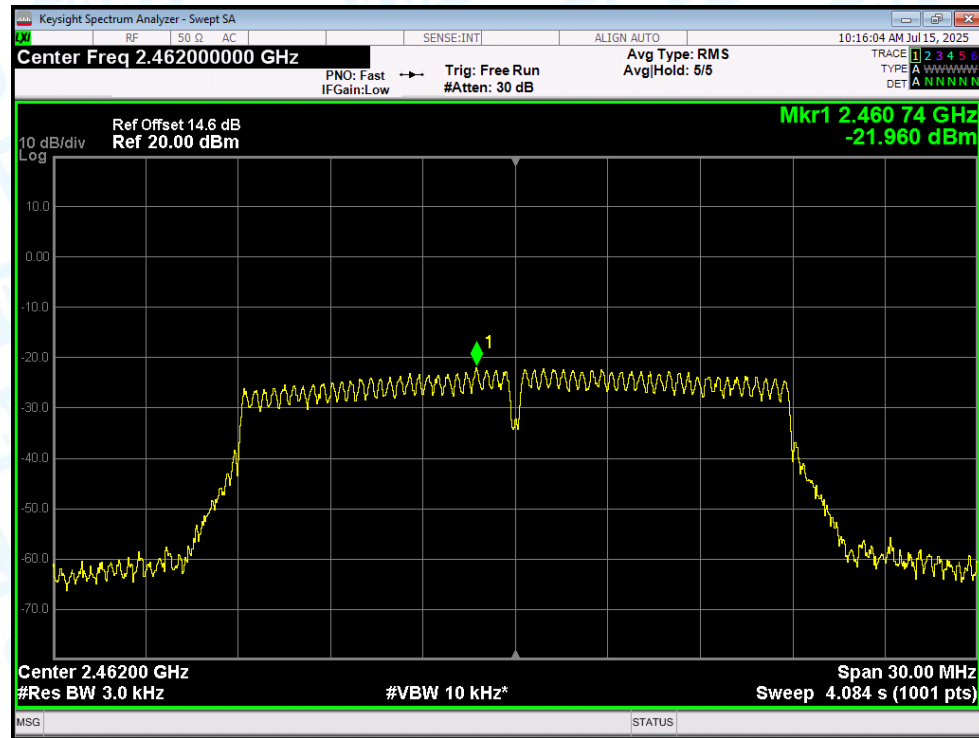
PSD NVNT n(HT20) 2412MHz Ant1



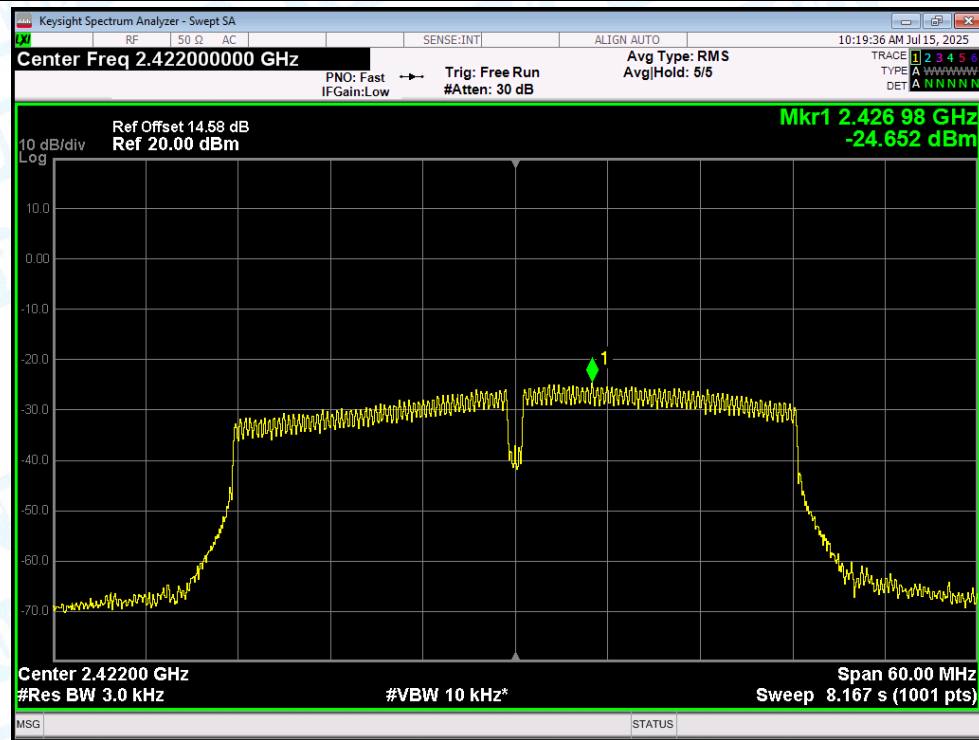
PSD NVNT n(HT20) 2437MHz Ant1



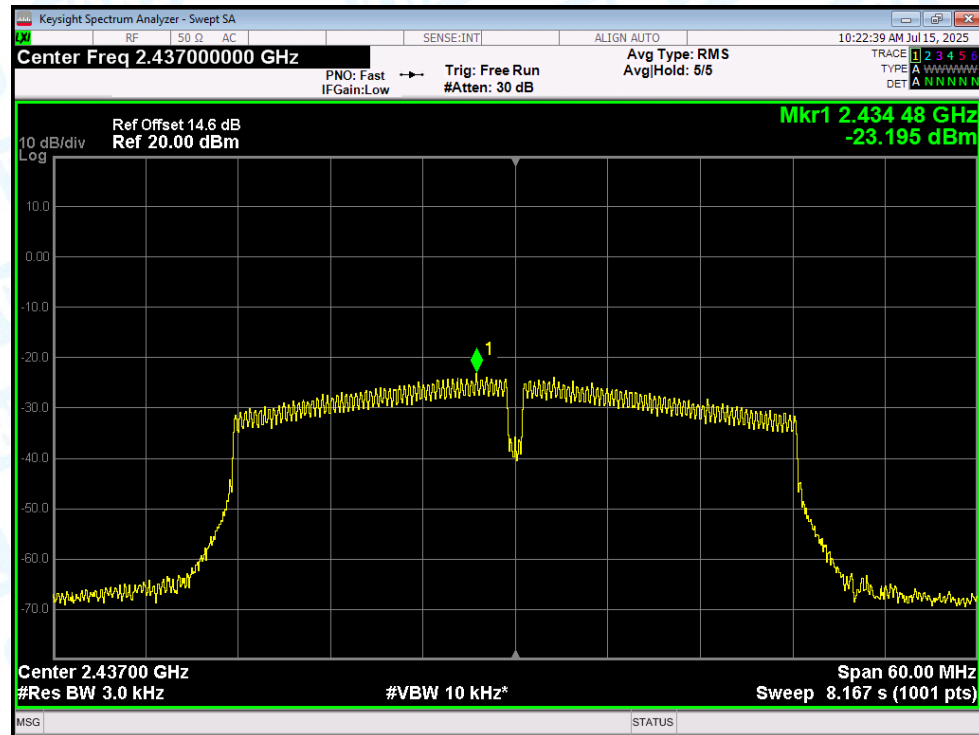
PSD NVNT n(HT20) 2462MHz Ant1



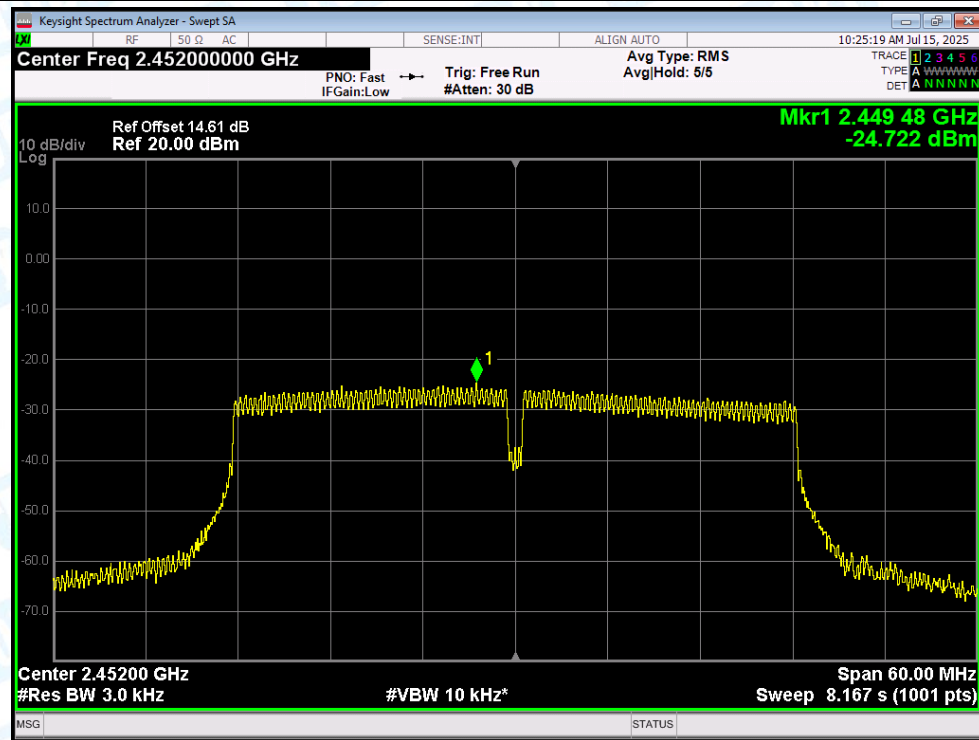
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

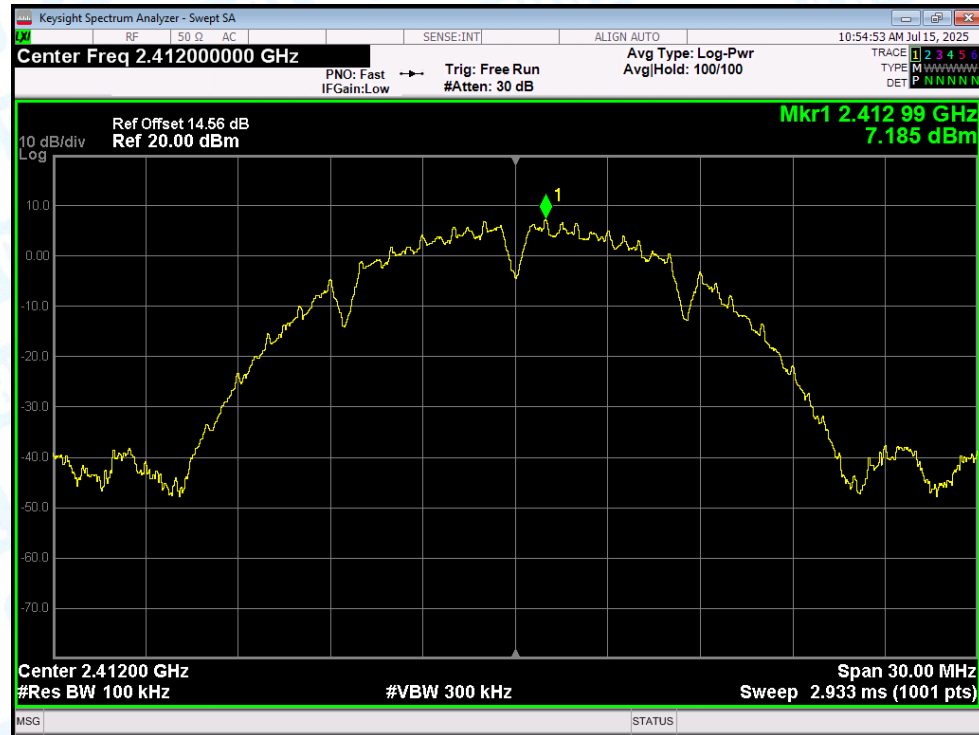


6. Band Edge

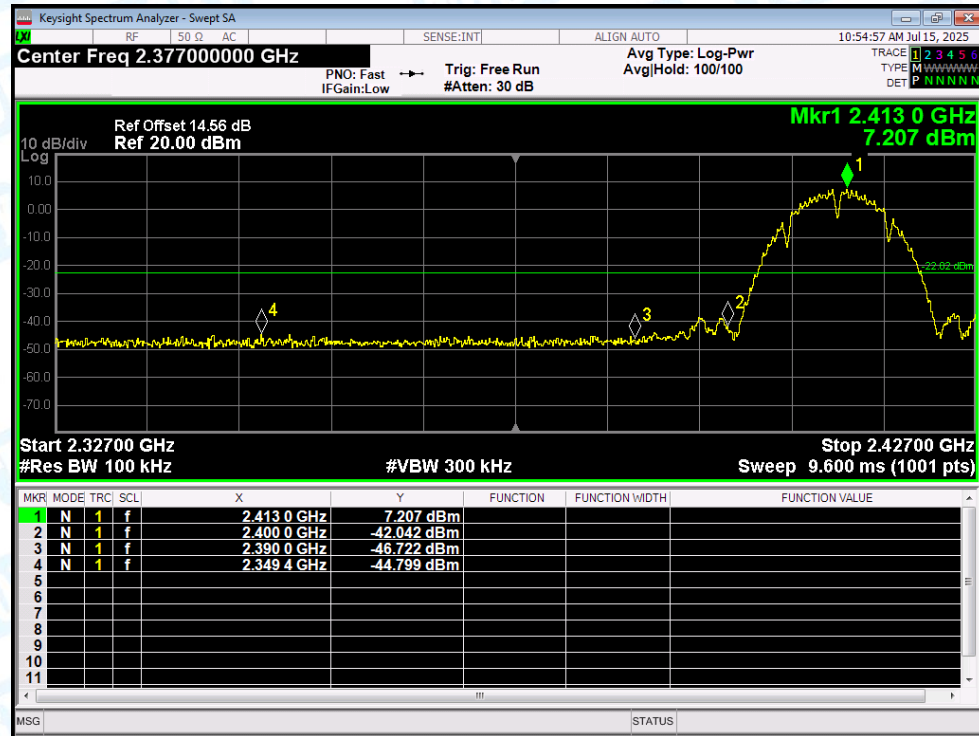
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.99	-30	Pass
NVNT	b	2462	Ant1	-49.62	-30	Pass
NVNT	g	2412	Ant1	-41.5	-30	Pass
NVNT	g	2462	Ant1	-47.27	-30	Pass
NVNT	n(HT20)	2412	Ant1	-42.76	-30	Pass
NVNT	n(HT20)	2462	Ant1	-45.99	-30	Pass
NVNT	n(HT40)	2422	Ant1	-43.61	-30	Pass
NVNT	n(HT40)	2452	Ant1	-36.54	-30	Pass

Test Graphs

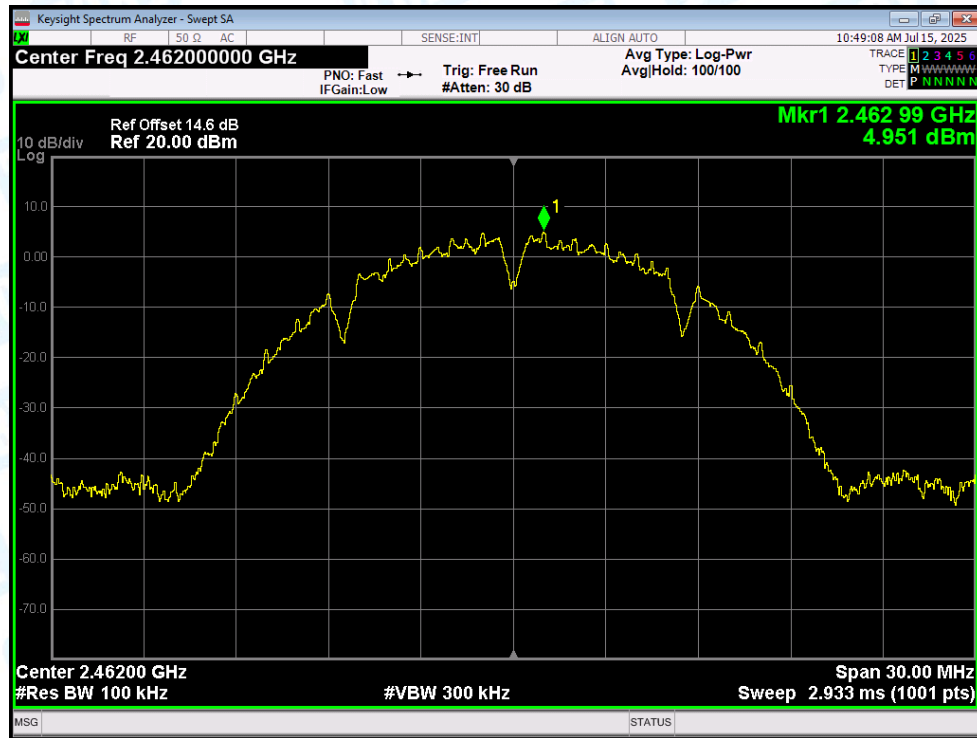
Band Edge NVNT b 2412MHz Ant1 Ref



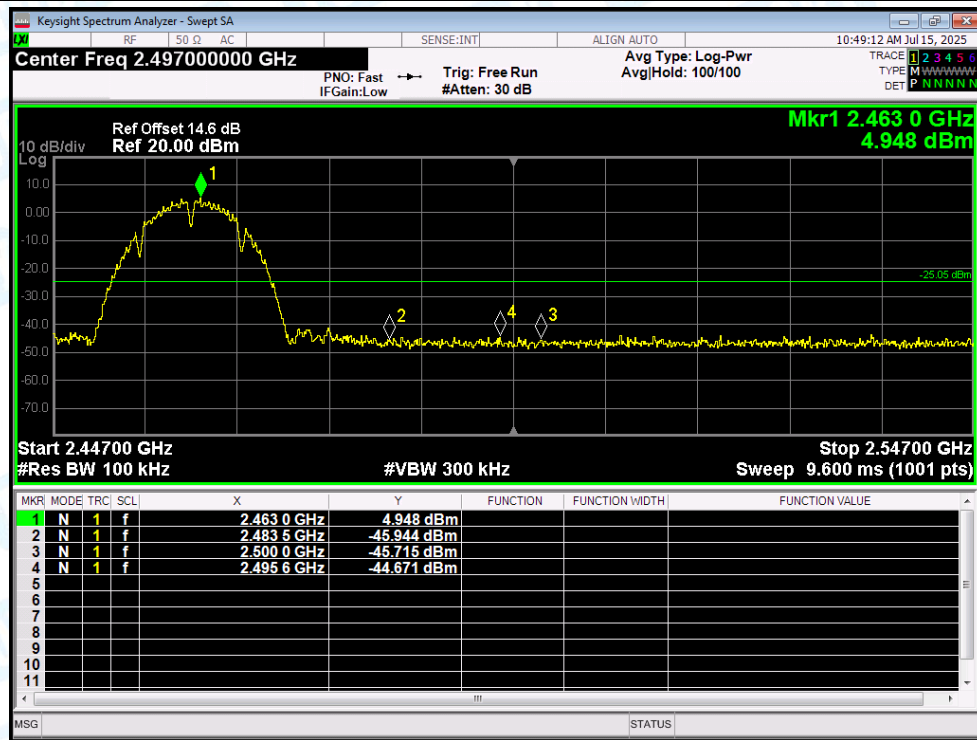
Band Edge NVNT b 2412MHz Ant1 Emission



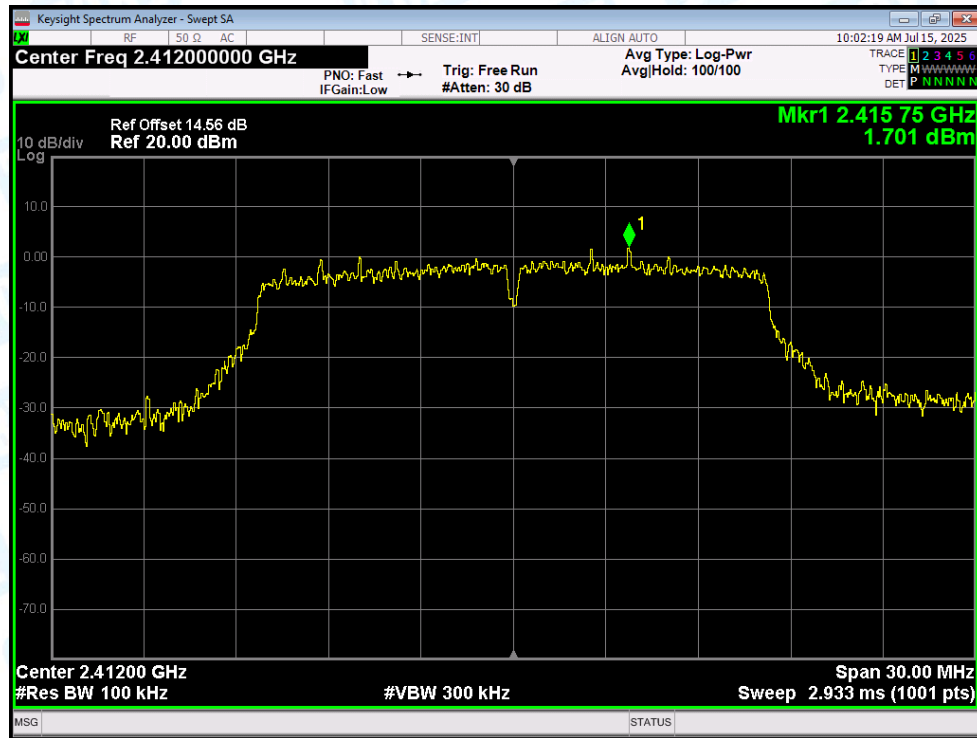
Band Edge NVNT b 2462MHz Ant1 Ref



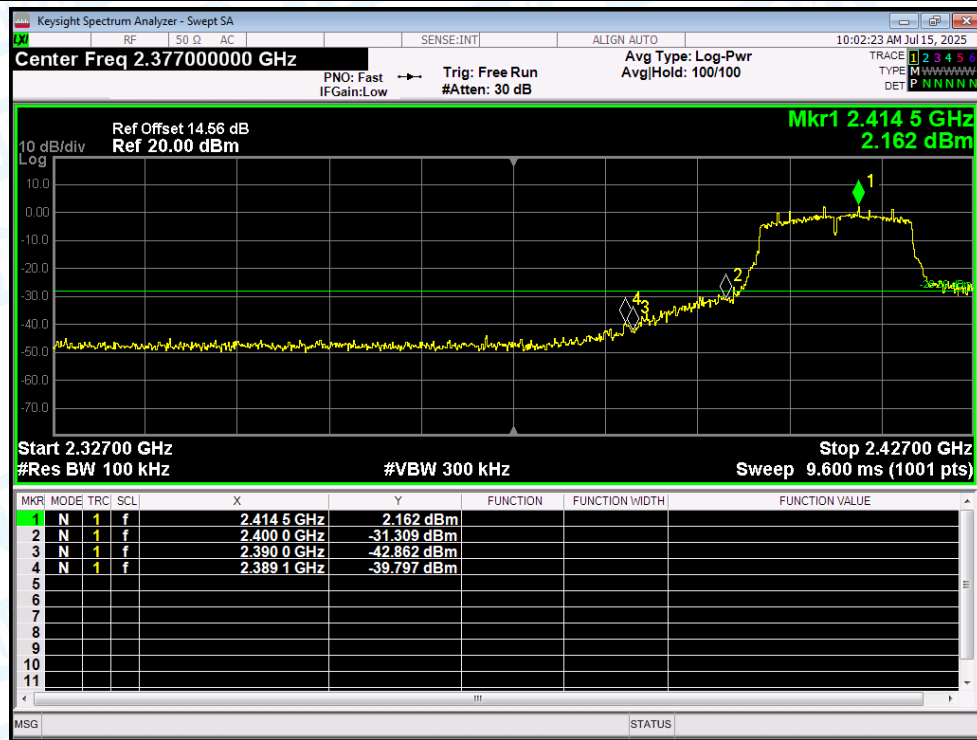
Band Edge NVNT b 2462MHz Ant1 Emission



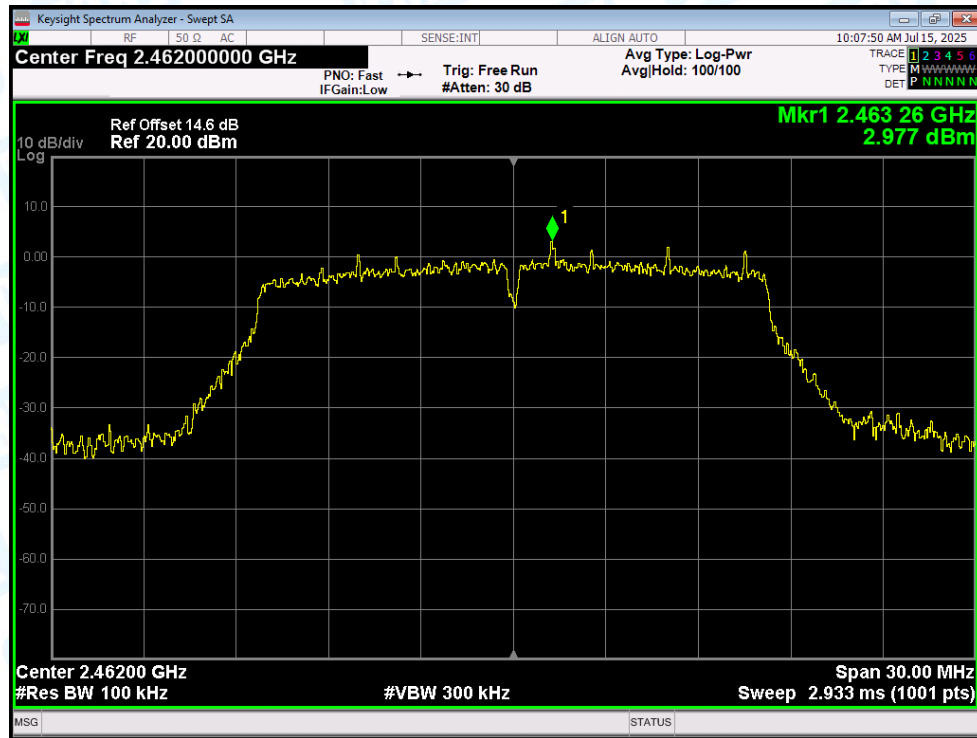
Band Edge NVNT g 2412MHz Ant1 Ref



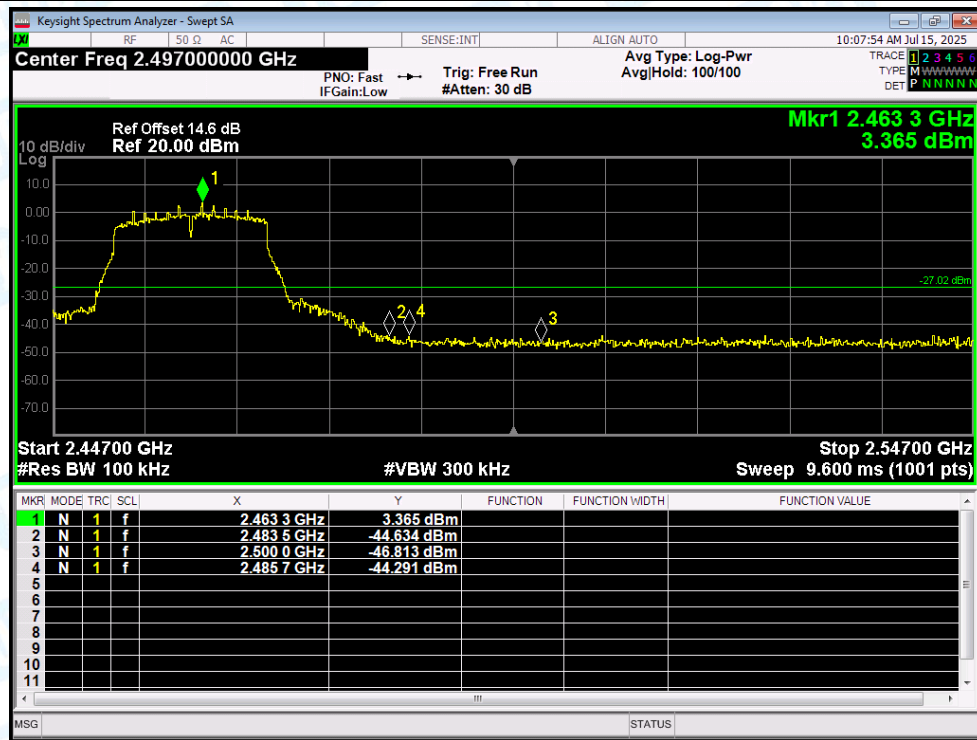
Band Edge NVNT g 2412MHz Ant1 Emission



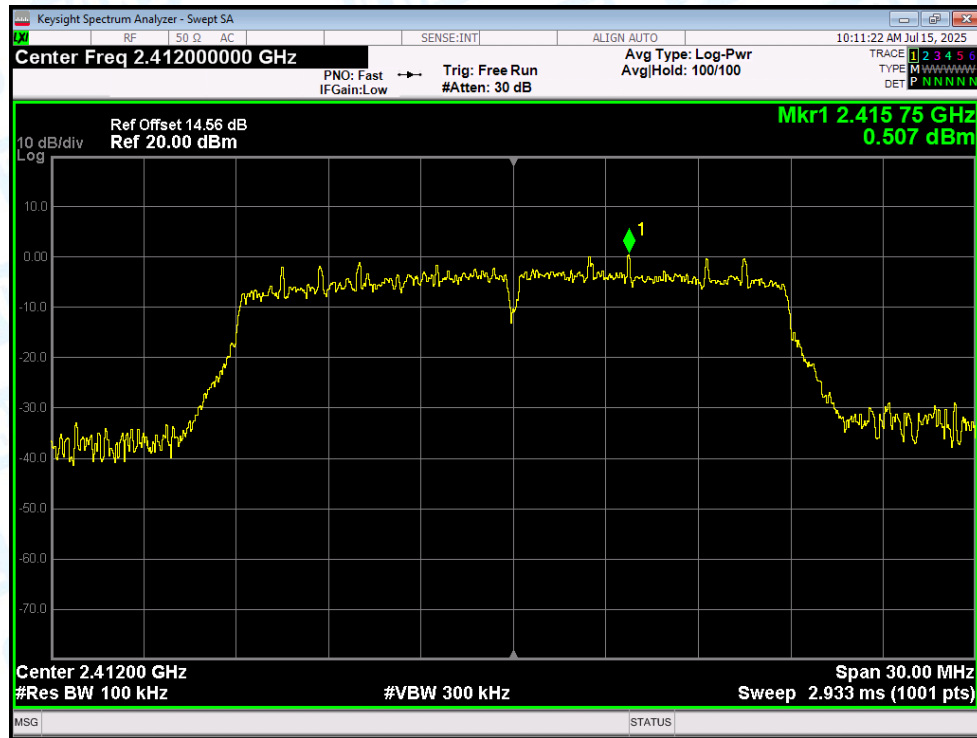
Band Edge NVNT g 2462MHz Ant1 Ref



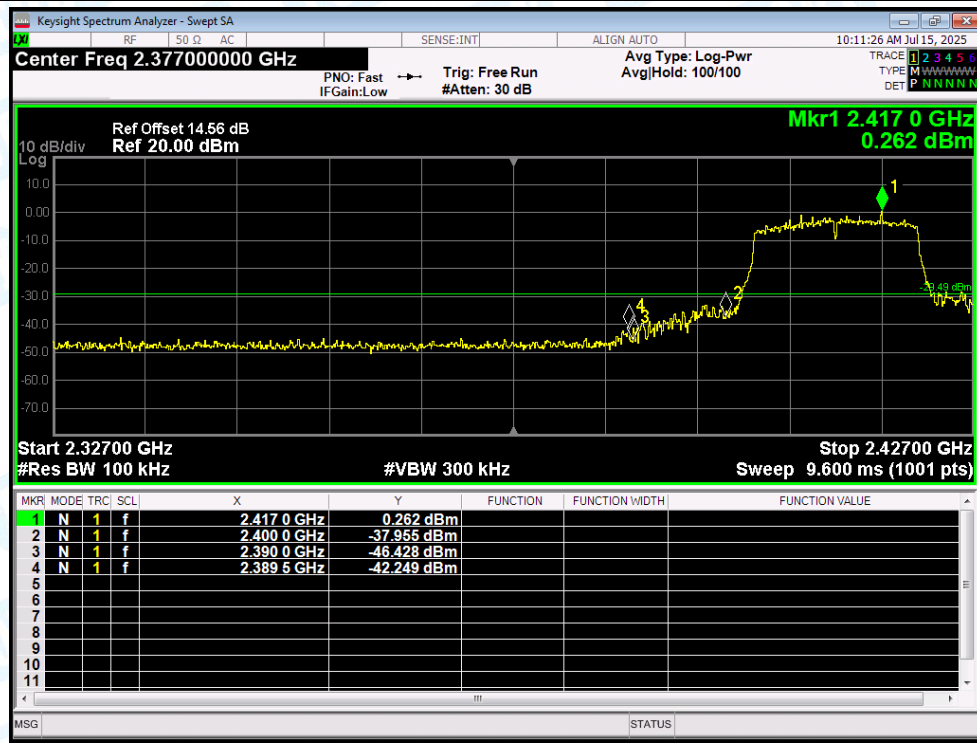
Band Edge NVNT g 2462MHz Ant1 Emission



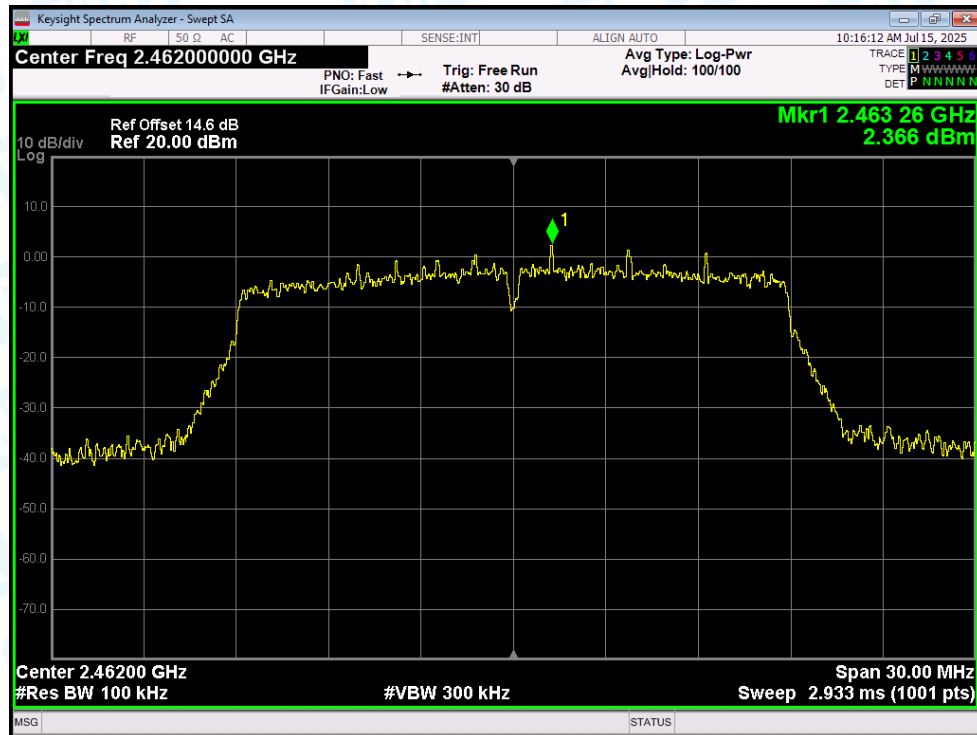
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



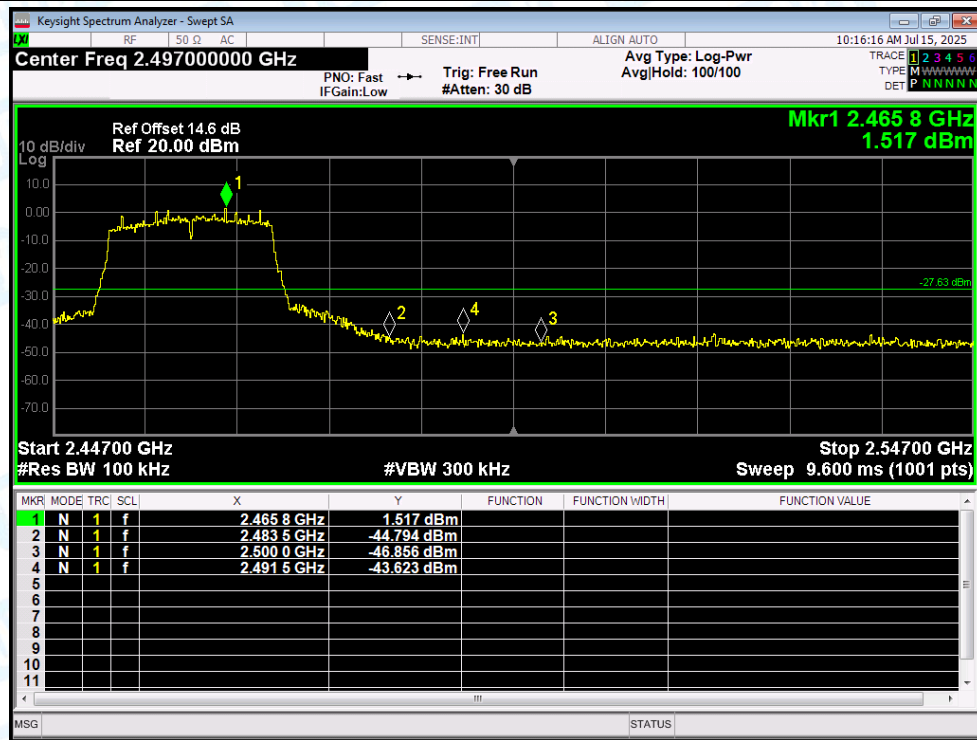
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



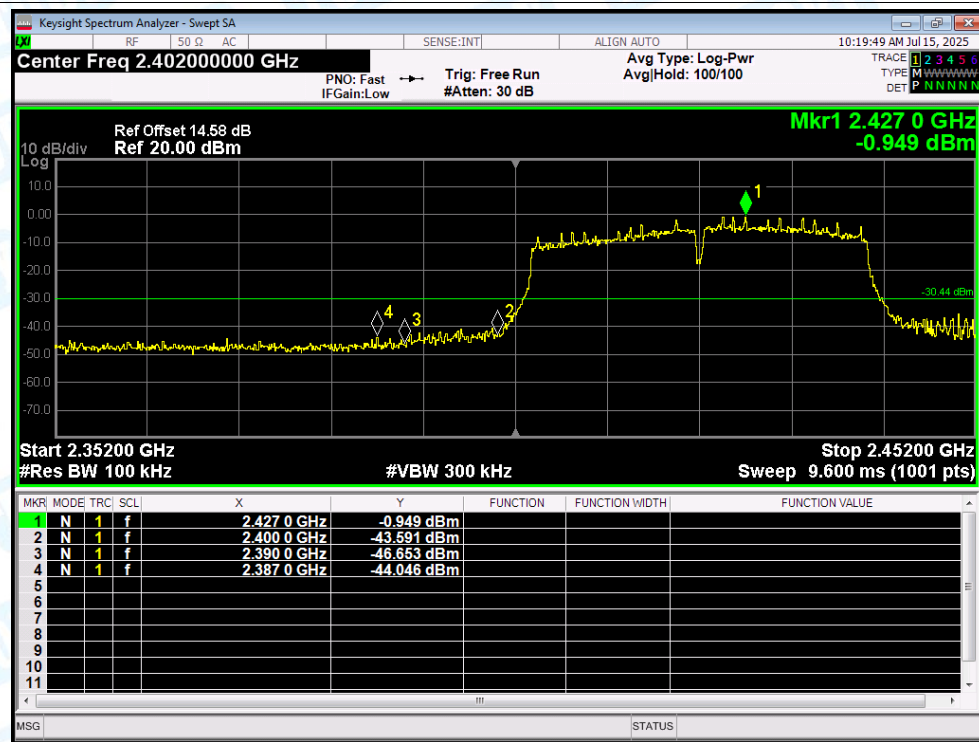
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



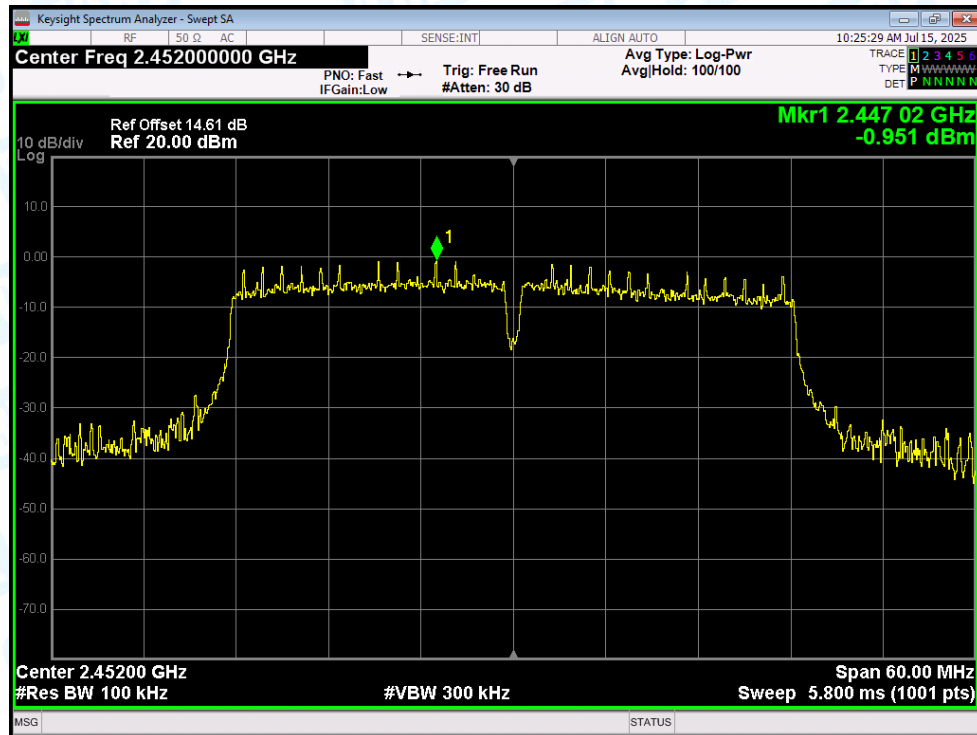
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



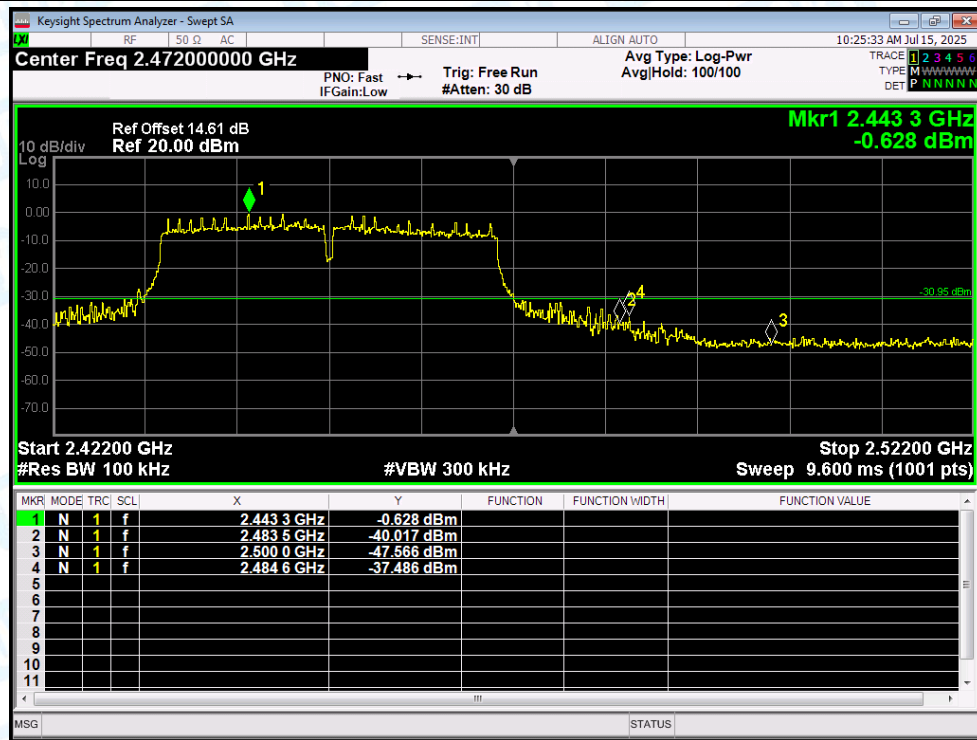
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

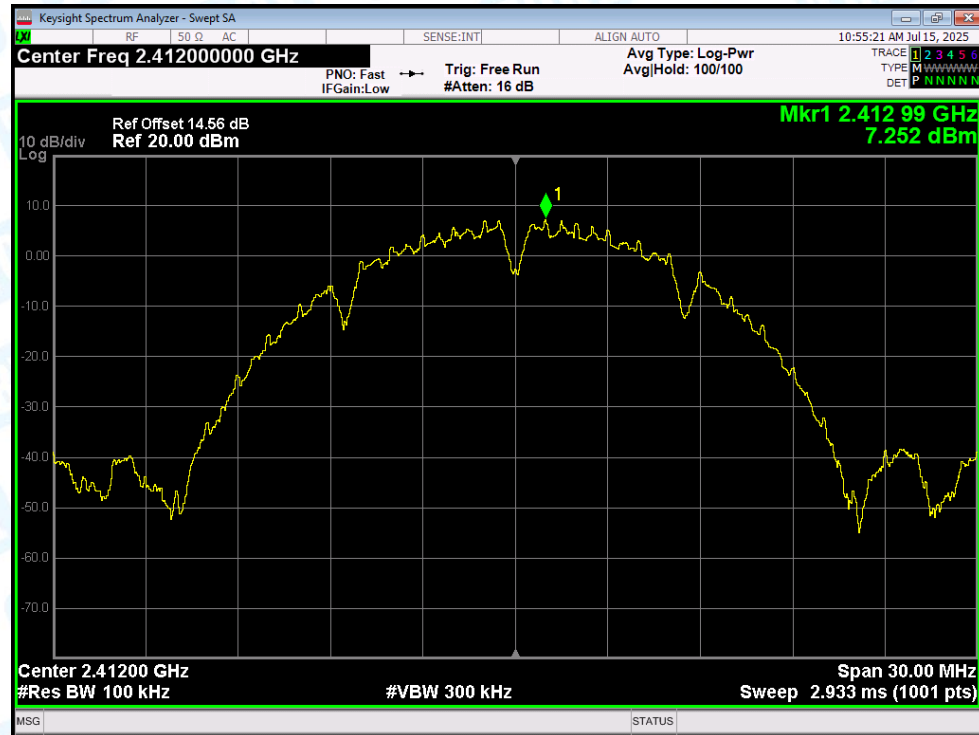


7. Conducted RF Spurious Emission

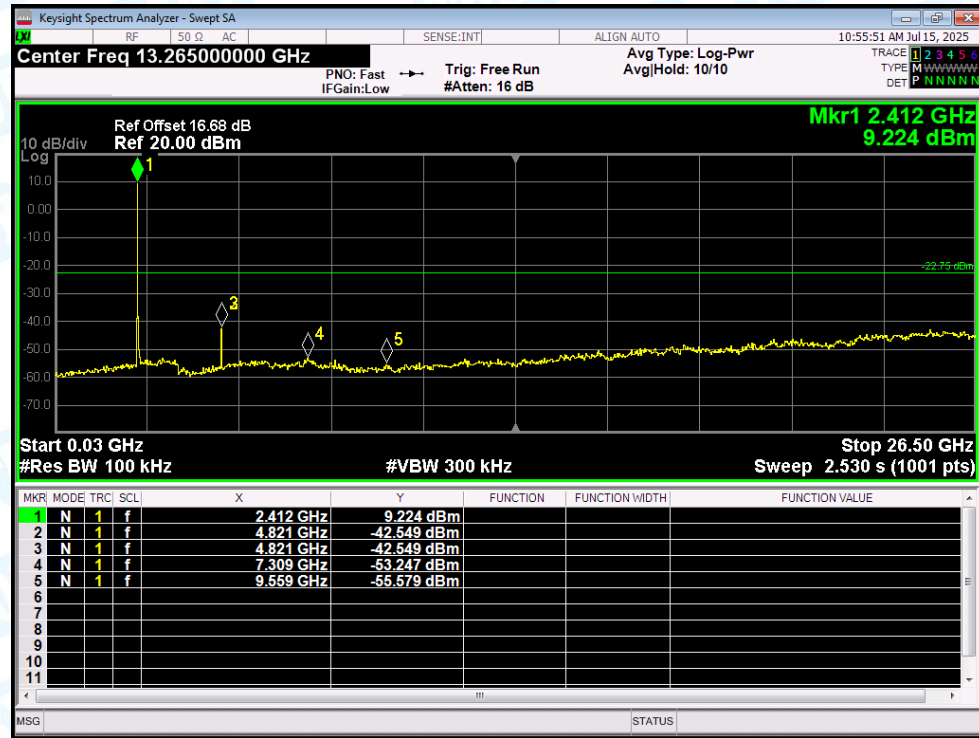
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.8	-30	Pass
NVNT	b	2437	Ant1	-49.83	-30	Pass
NVNT	b	2462	Ant1	-48.04	-30	Pass
NVNT	g	2412	Ant1	-46.08	-30	Pass
NVNT	g	2437	Ant1	-47.11	-30	Pass
NVNT	g	2462	Ant1	-45.97	-30	Pass
NVNT	n(HT20)	2412	Ant1	-43.25	-30	Pass
NVNT	n(HT20)	2437	Ant1	-44.86	-30	Pass
NVNT	n(HT20)	2462	Ant1	-45.22	-30	Pass
NVNT	n(HT40)	2422	Ant1	-42.39	-30	Pass
NVNT	n(HT40)	2437	Ant1	-42.55	-30	Pass
NVNT	n(HT40)	2452	Ant1	-42.89	-30	Pass

Test Graphs

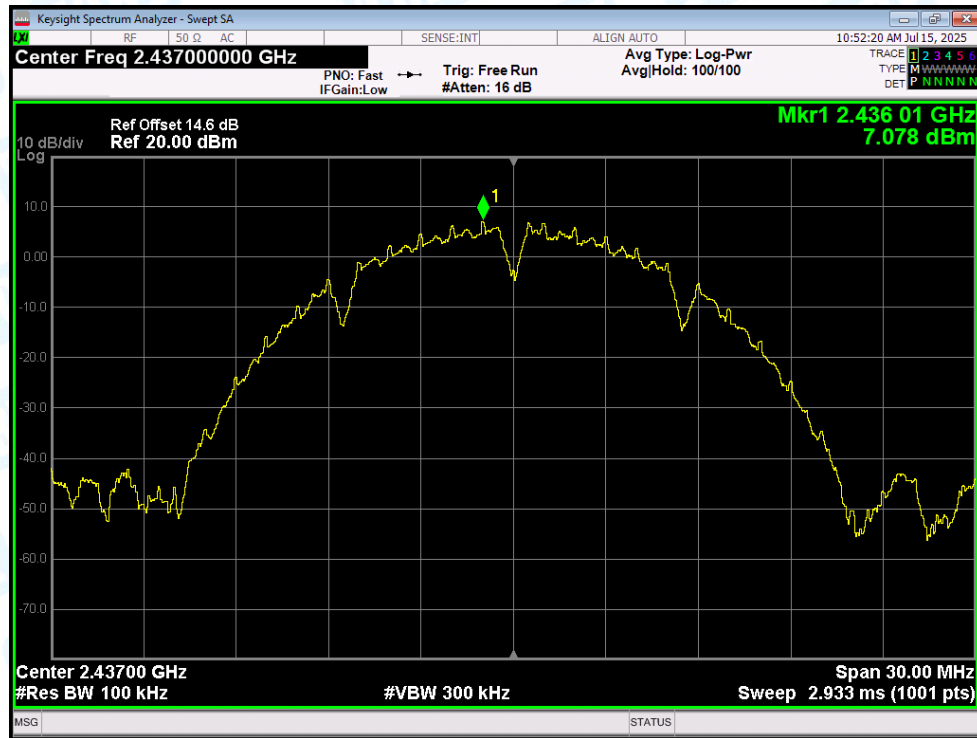
Tx. Spurious NVNT b 2412MHz Ant1 Ref



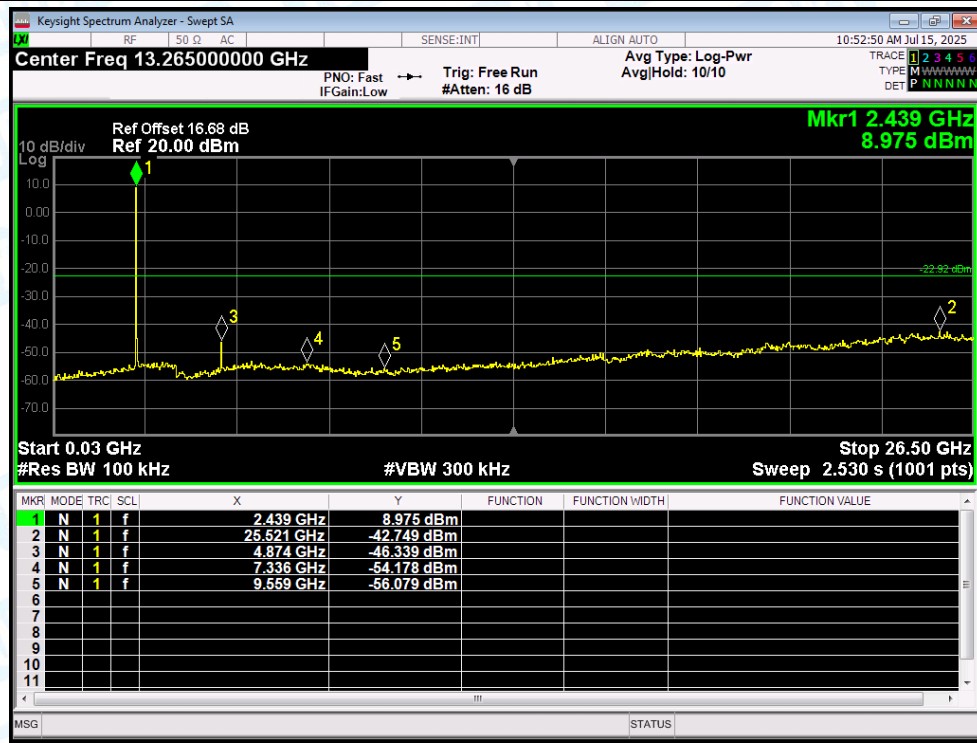
Tx. Spurious NVNT b 2412MHz Ant1 Emission



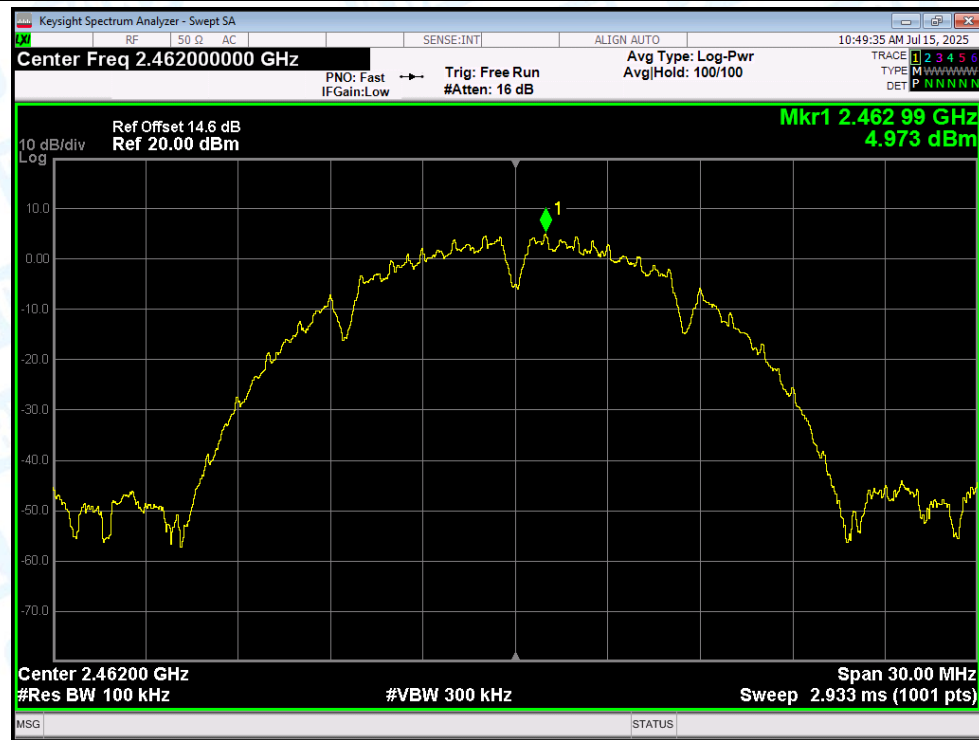
Tx. Spurious NVNT b 2437MHz Ant1 Ref



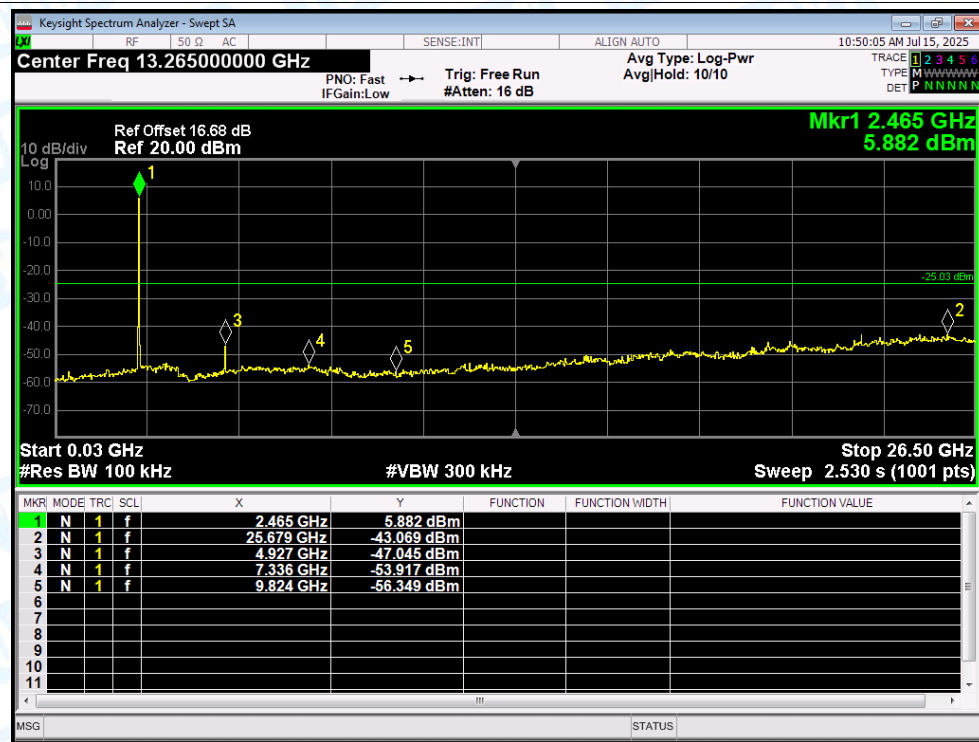
Tx. Spurious NVNT b 2437MHz Ant1 Emission



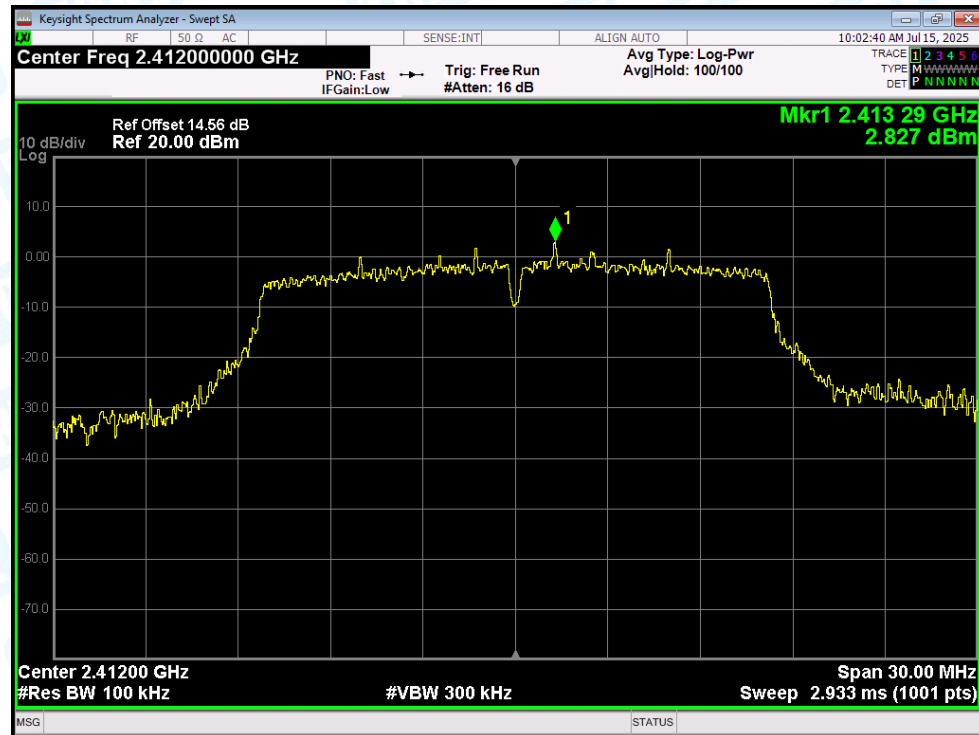
Tx. Spurious NVNT b 2462MHz Ant1 Ref



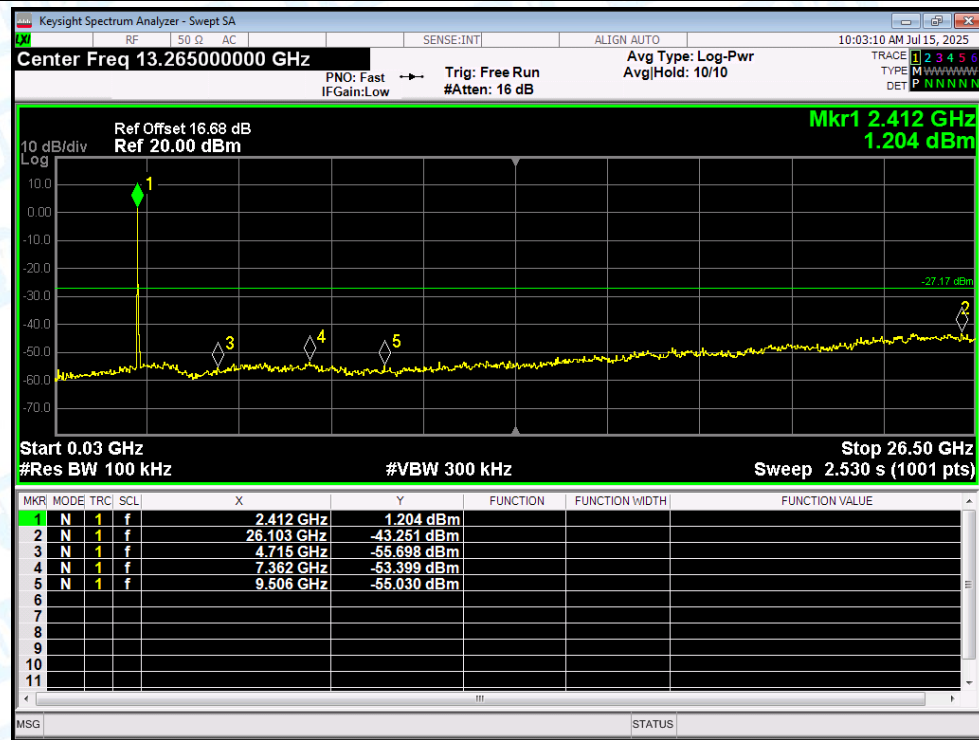
Tx. Spurious NVNT b 2462MHz Ant1 Emission



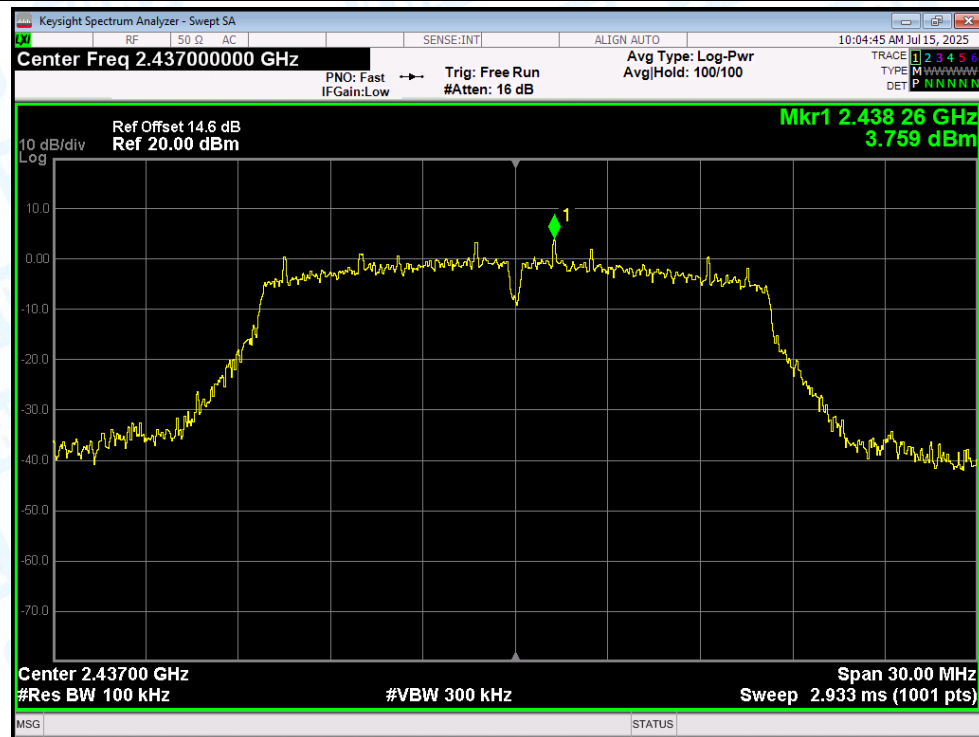
Tx. Spurious NVNT g 2412MHz Ant1 Ref



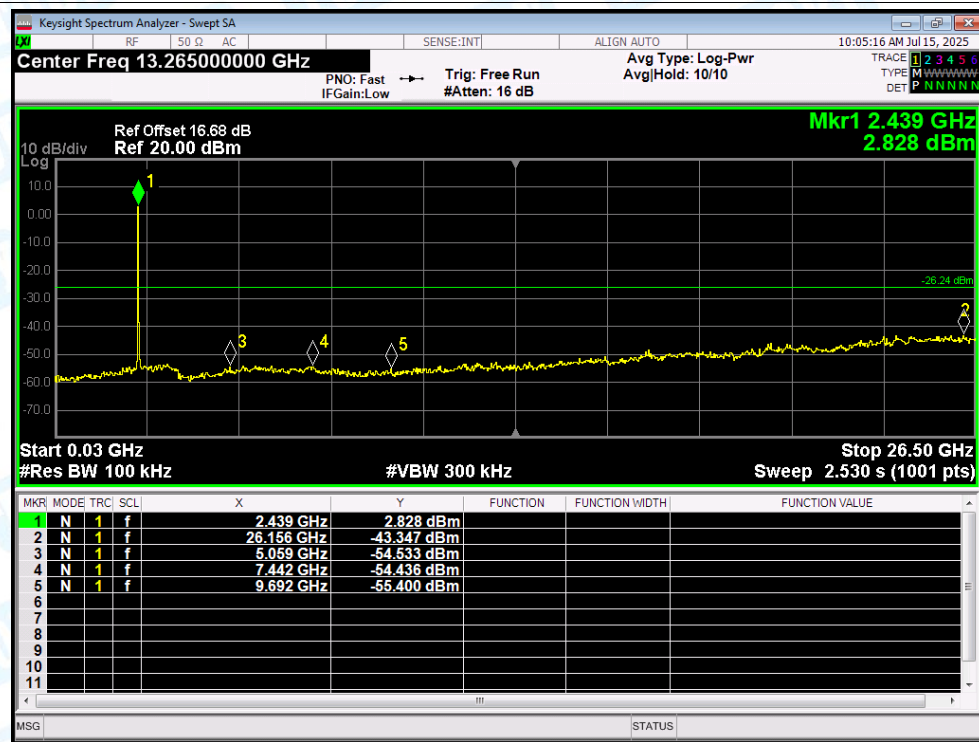
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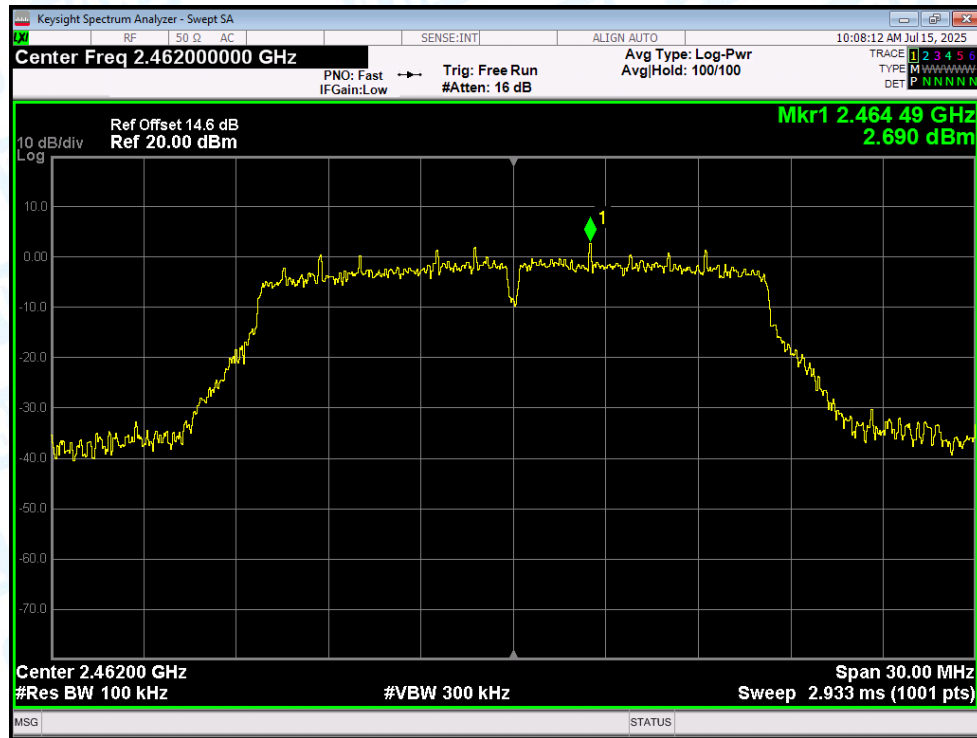
Tx. Spurious NVNT g 2437MHz Ant1 Ref



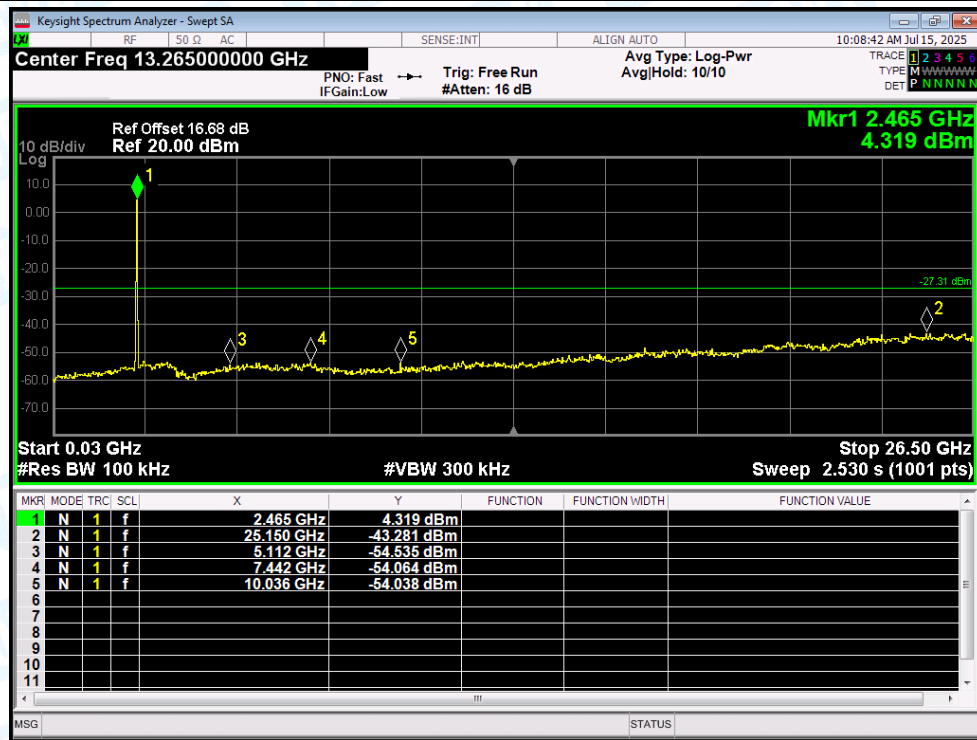
Tx. Spurious NVNT g 2437MHz Ant1 Emission



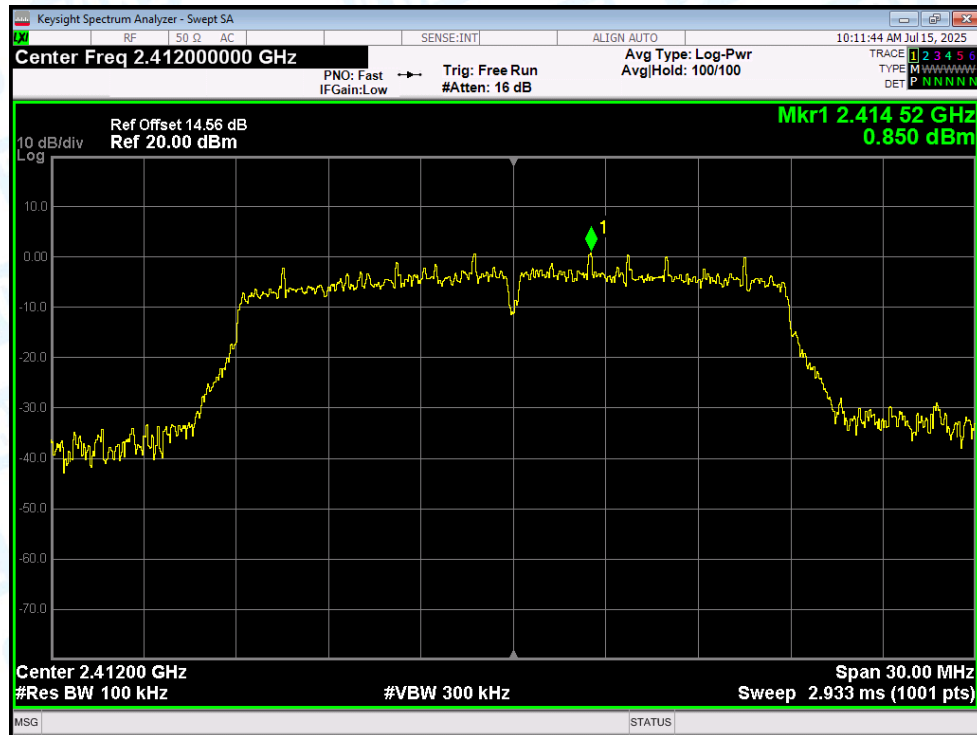
Tx. Spurious NVNT g 2462MHz Ant1 Ref



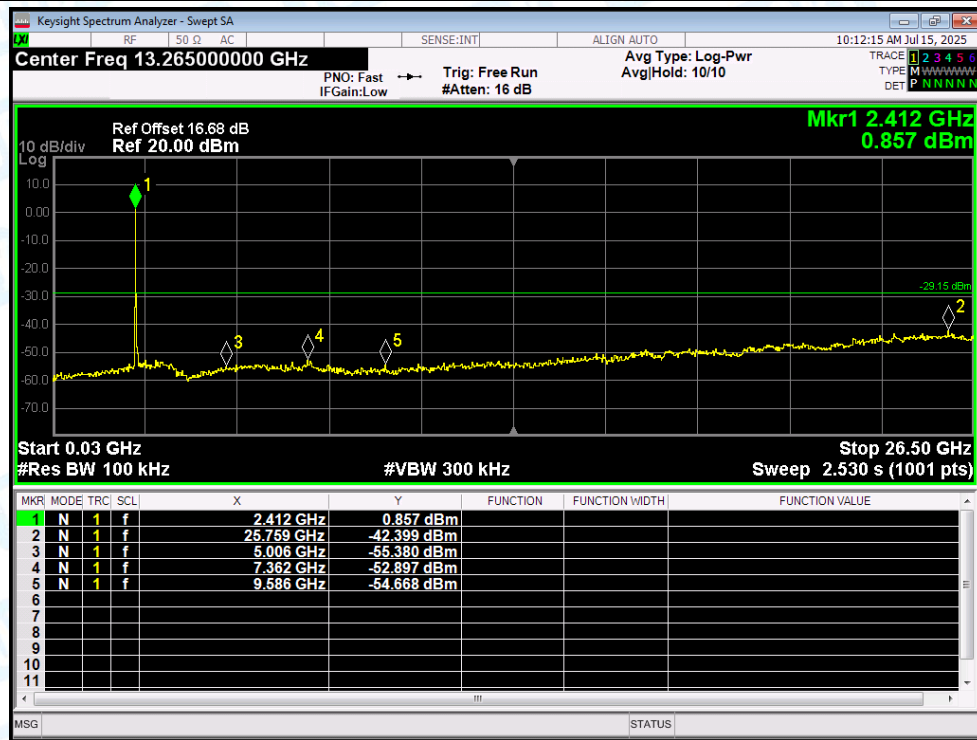
Tx. Spurious NVNT g 2462MHz Ant1 Emission



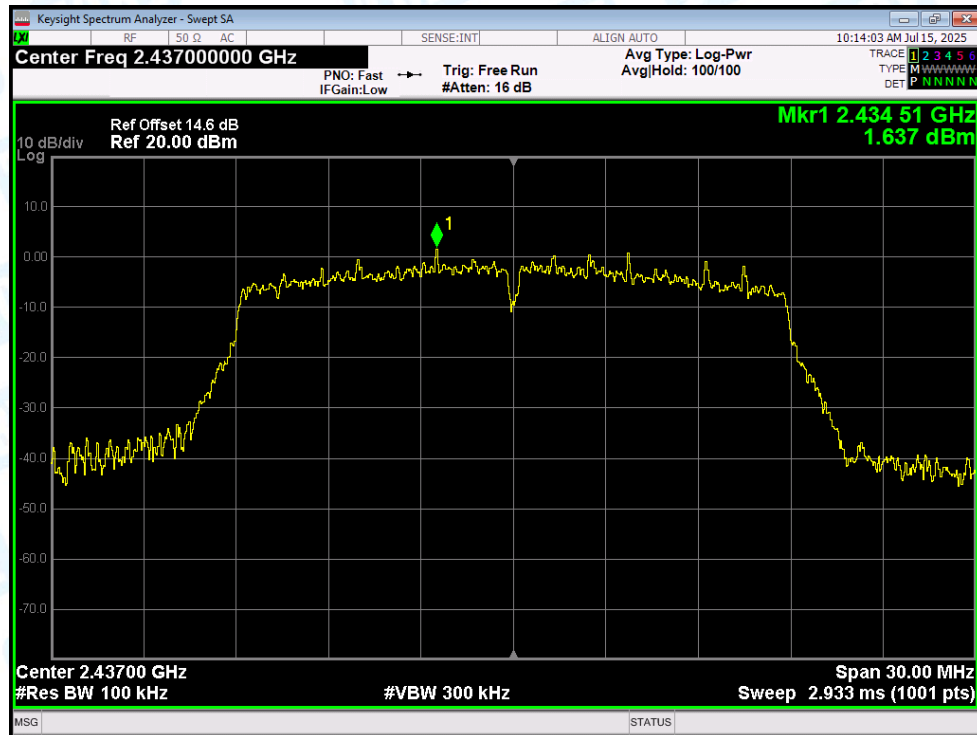
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



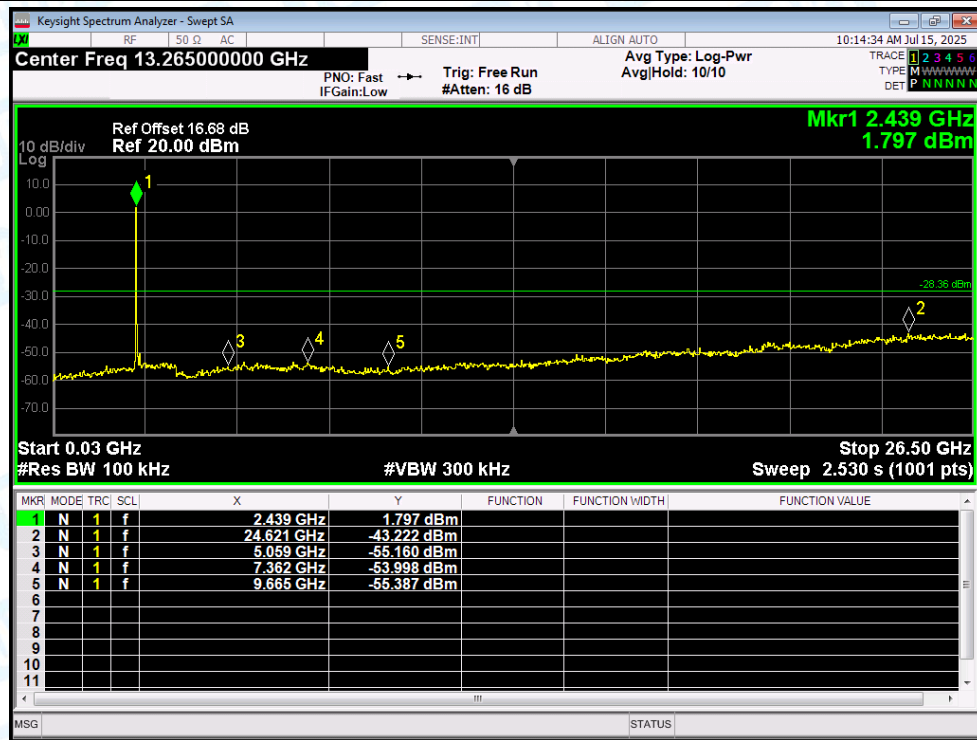
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



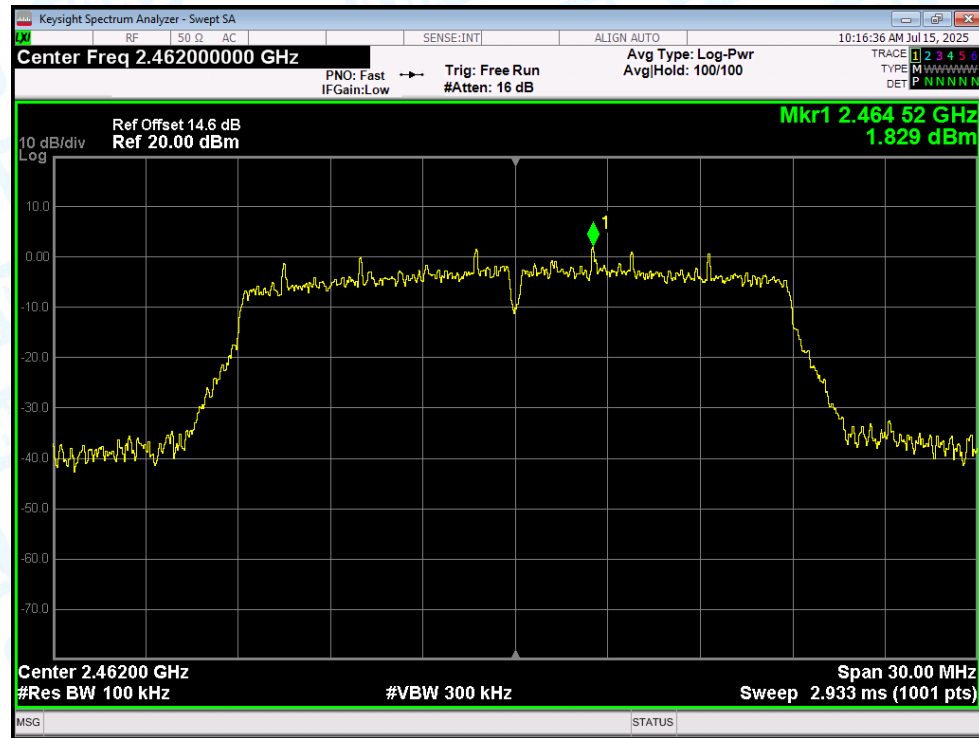
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



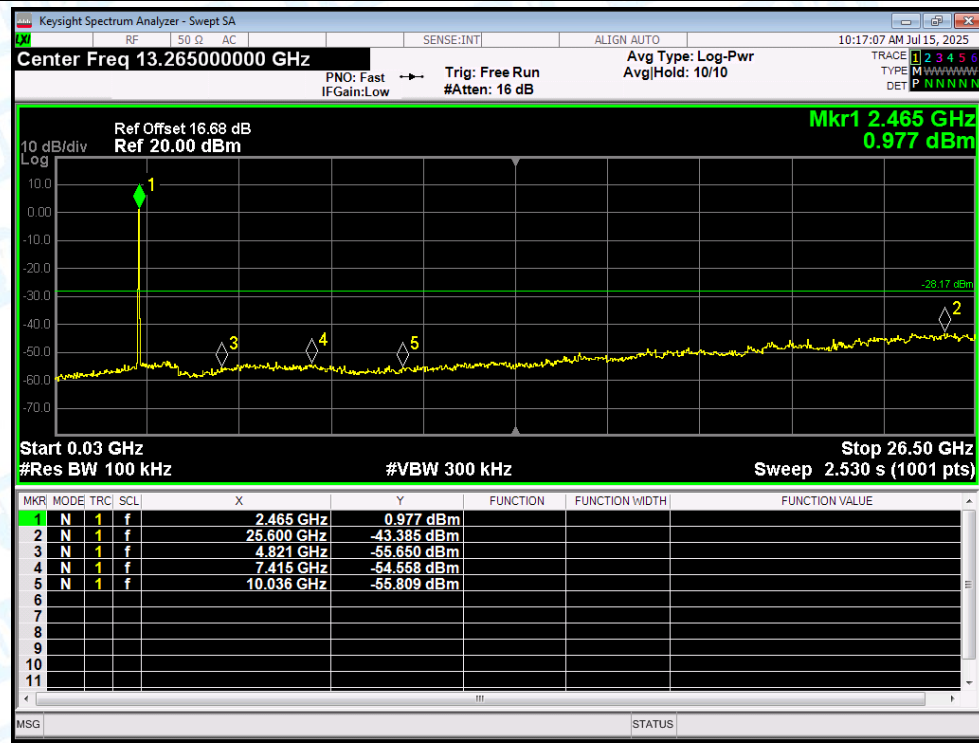
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



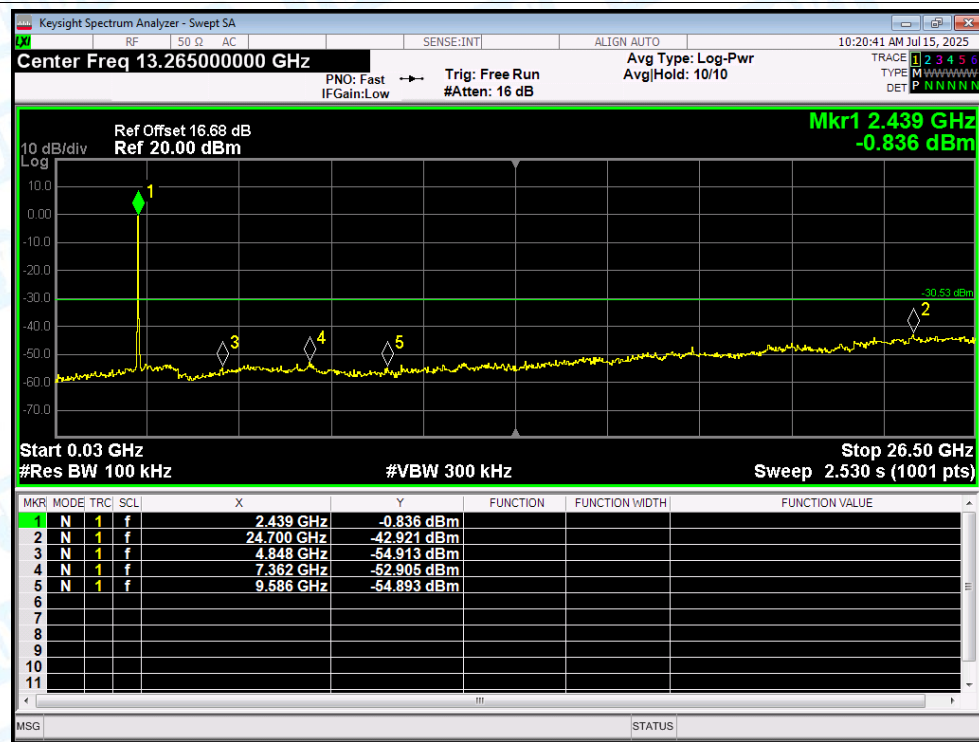
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



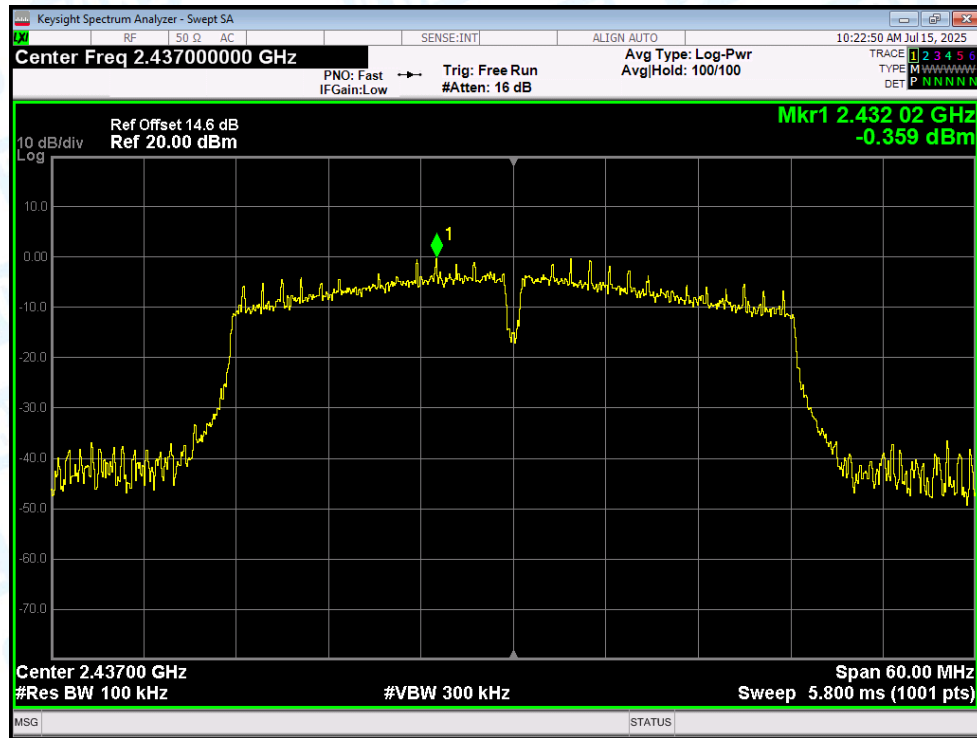
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Ref



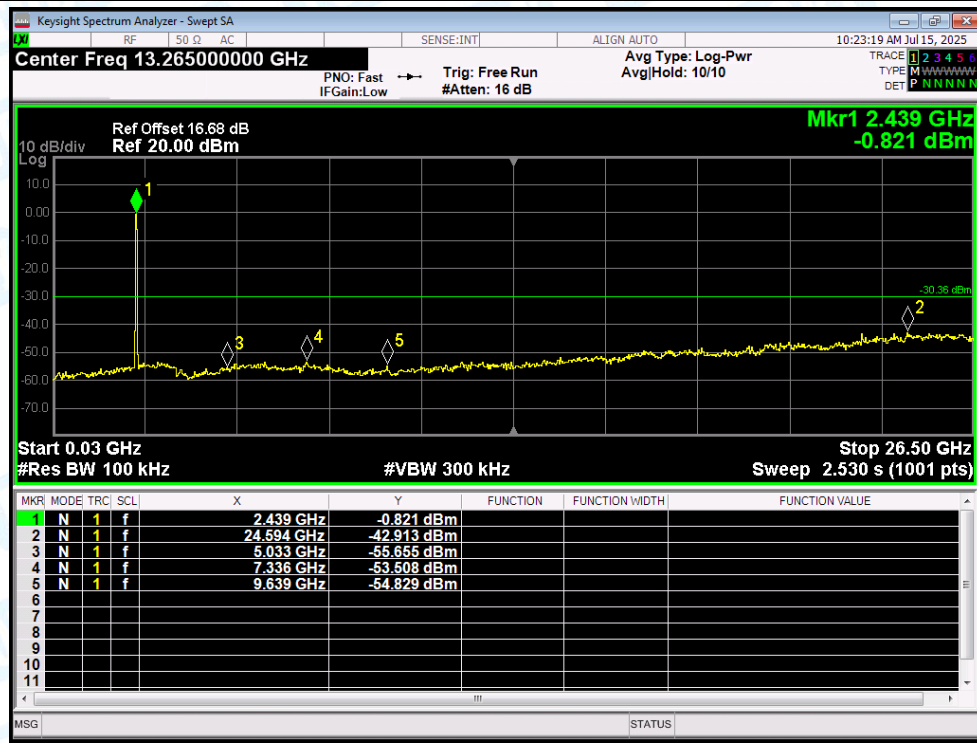
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Emission



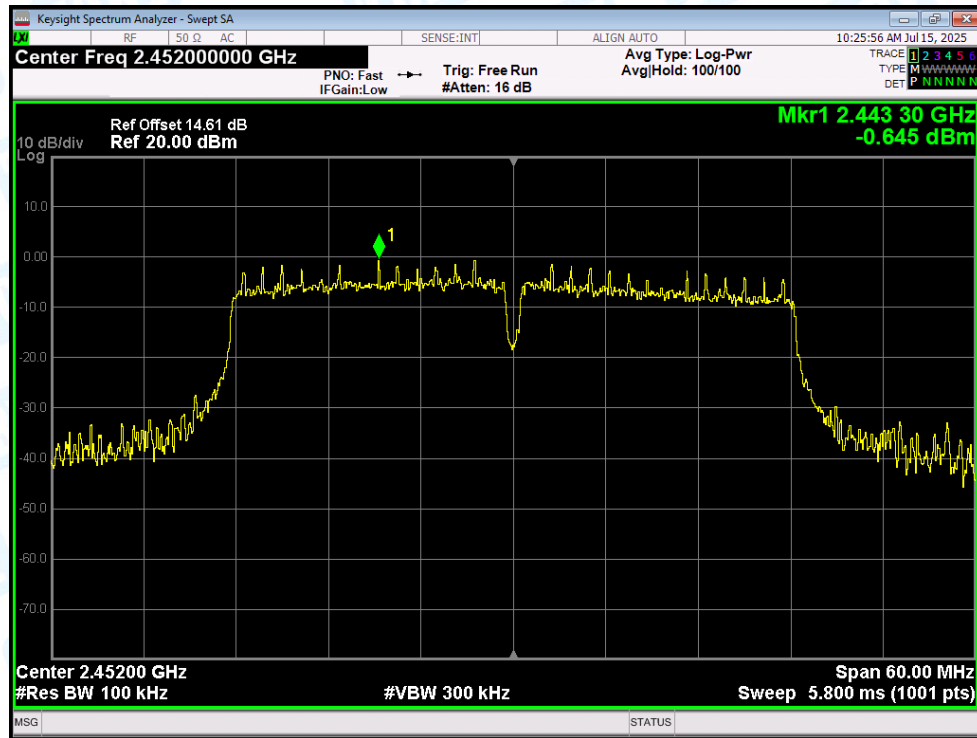
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



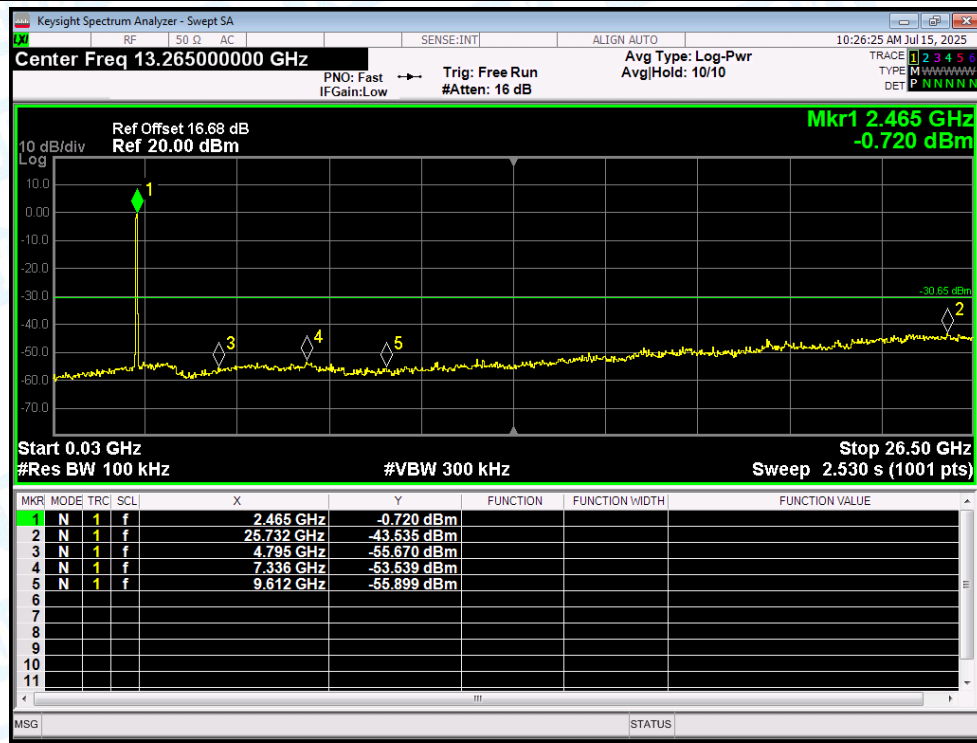
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Ref



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission



--- END OF REPORT ---