

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Dual-Band Low Power Surveillance Camera
Test Model:	C366
Sample ID:	HC-C-202411-0020-01-01-2#
Environmental Conditions	
Temperature:	24.8℃
Relative Humidity:	48%RH
Test Voltage:	DC 3.7V
Test Engineer:	ZKN ZHOU
Note: For a more detailed features description, please refer to the report TBR-C-202411-0020-1 The report only show the worst case data.	

Contents

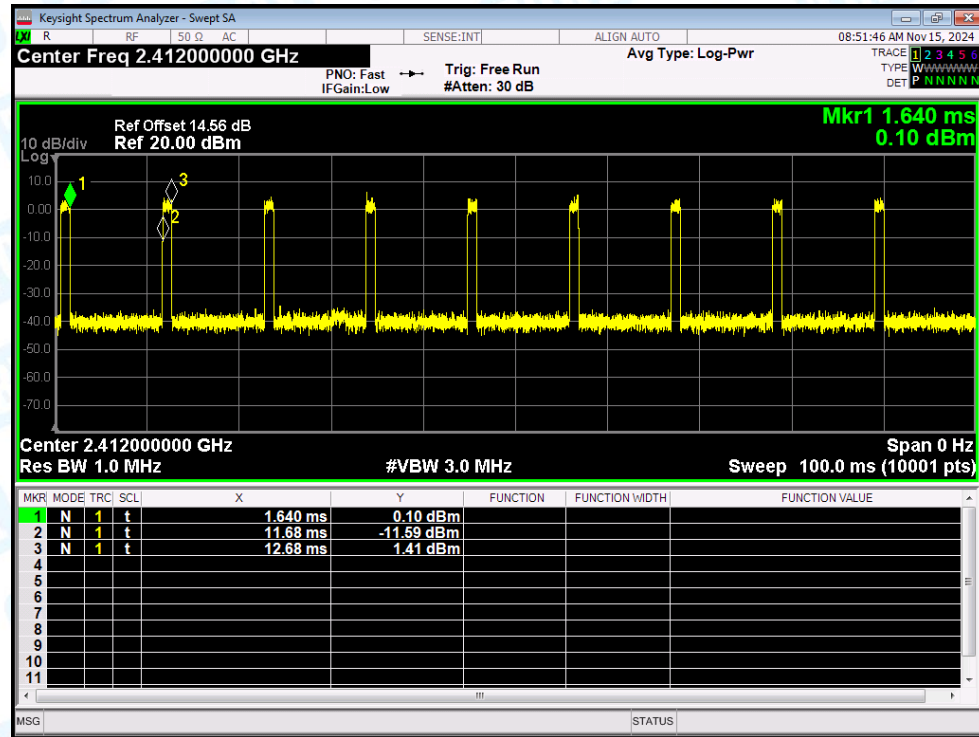
1.	Duty Cycle	3
2.	Maximum Conducted Output Power	13
3.	-6dB Bandwidth	14
4.	Occupied Channel Bandwidth	24
5.	Maximum Power Spectral Density Level	34
6.	Band Edge	44
7.	Conducted RF Spurious Emission	57
8.	Restrict Band	76

1. Duty Cycle

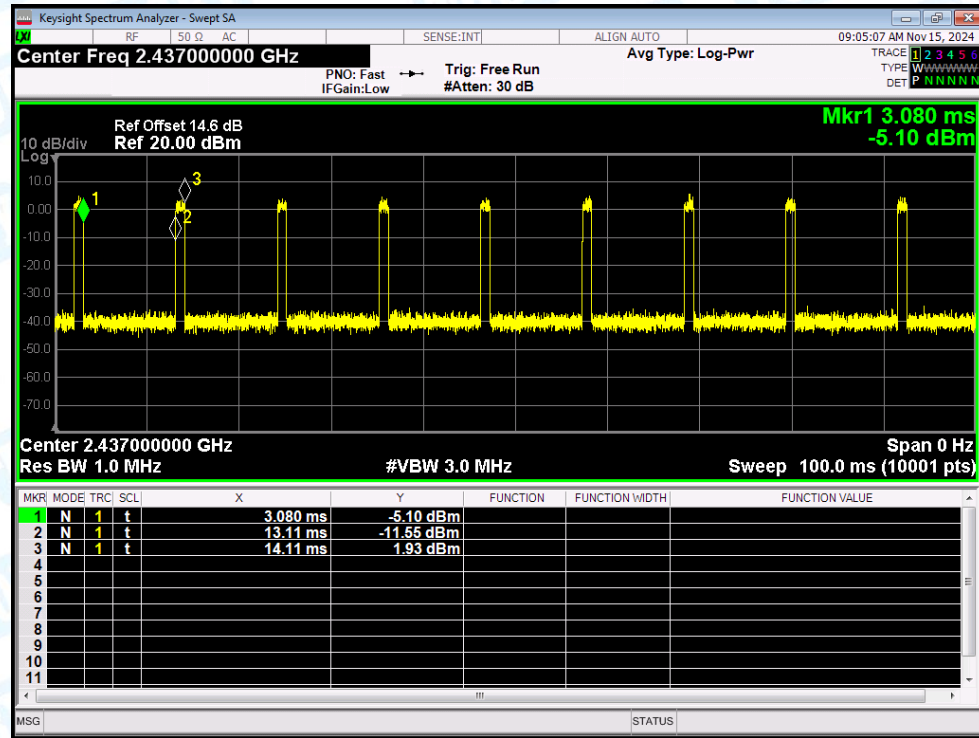
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	9.06	10.43	1
NVNT	ax(VHT20)	2437	Ant1	9.07	10.42	1
NVNT	ax(VHT20)	2462	Ant1	9.07	10.42	1
NVNT	ax(VHT40)	2422	Ant1	5.01	13	1.89
NVNT	ax(VHT40)	2437	Ant1	5.02	12.99	1.89
NVNT	ax(VHT40)	2452	Ant1	5.01	13	1.89
NVNT	b	2412	Ant1	45.04	3.46	0.12
NVNT	b	2437	Ant1	45.04	3.46	0.12
NVNT	b	2462	Ant1	45.1	3.46	0.12
NVNT	g	2412	Ant1	11.93	9.23	0.74
NVNT	g	2437	Ant1	12.02	9.2	0.73
NVNT	g	2462	Ant1	11.94	9.23	0.74
NVNT	n(HT20)	2412	Ant1	11.32	9.46	0.78
NVNT	n(HT20)	2437	Ant1	11.33	9.46	0.78
NVNT	n(HT20)	2462	Ant1	11.23	9.5	0.79
NVNT	n(HT40)	2422	Ant1	5.91	12.28	1.59
NVNT	n(HT40)	2437	Ant1	5.9	12.29	1.59
NVNT	n(HT40)	2452	Ant1	5.81	12.36	1.61

Test Graphs

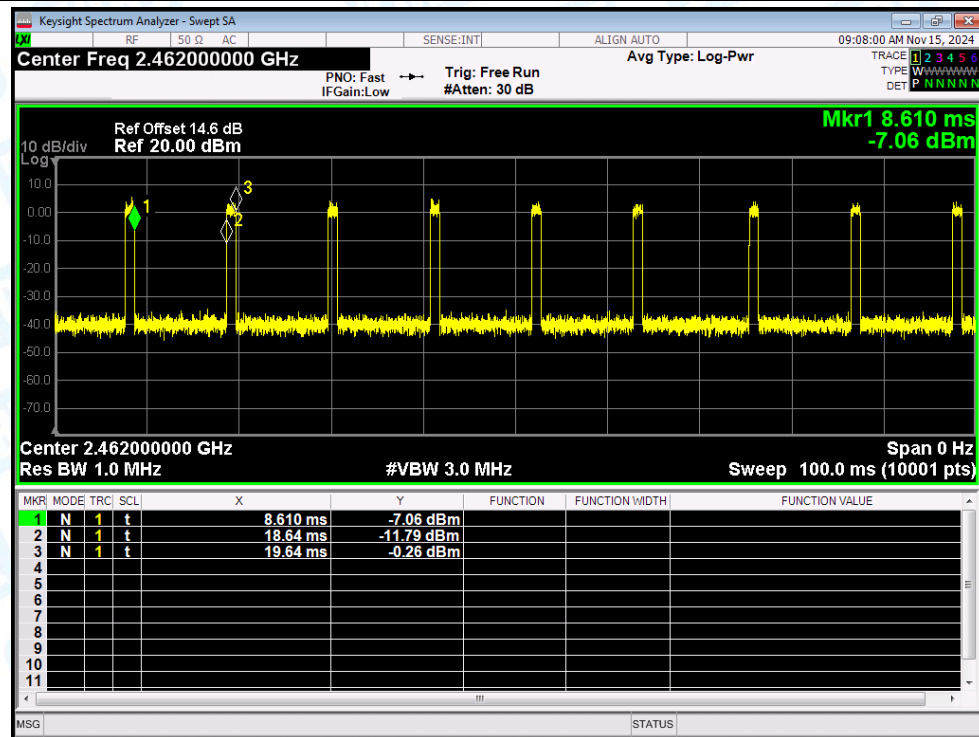
Duty Cycle NVNT ax(VHT20) 2412MHz Ant1



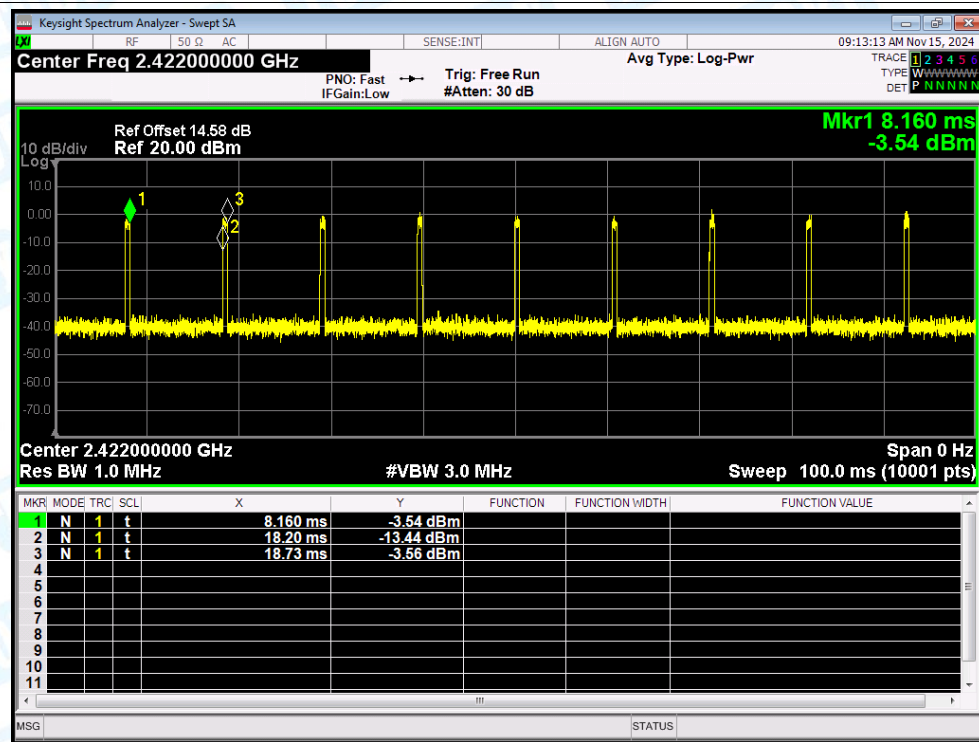
Duty Cycle NVNT ax(VHT20) 2437MHz Ant1



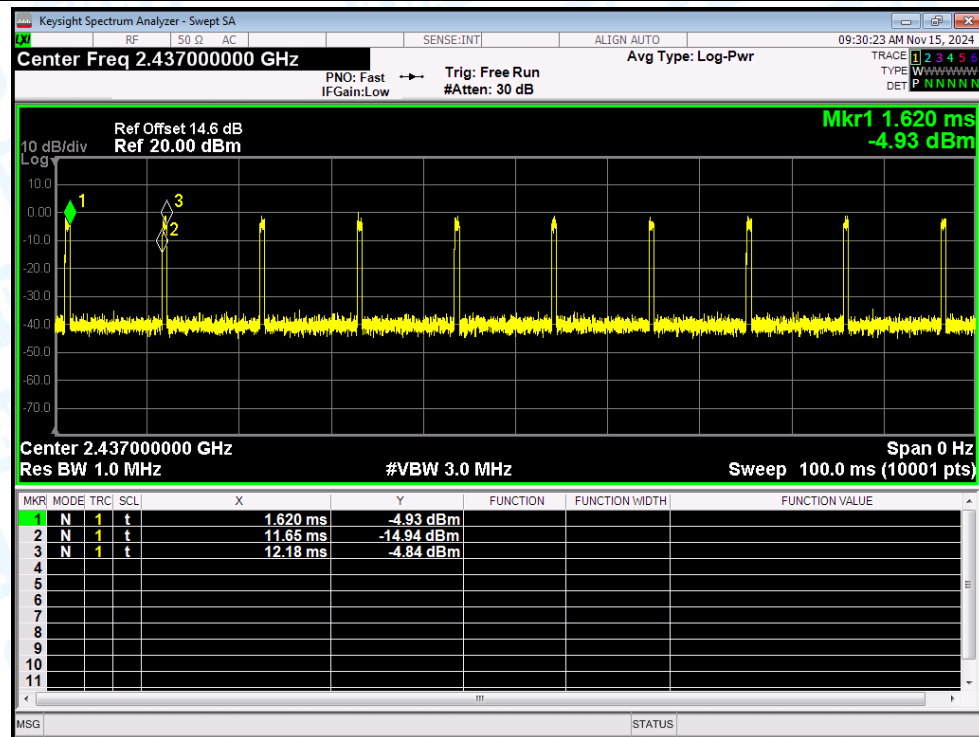
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



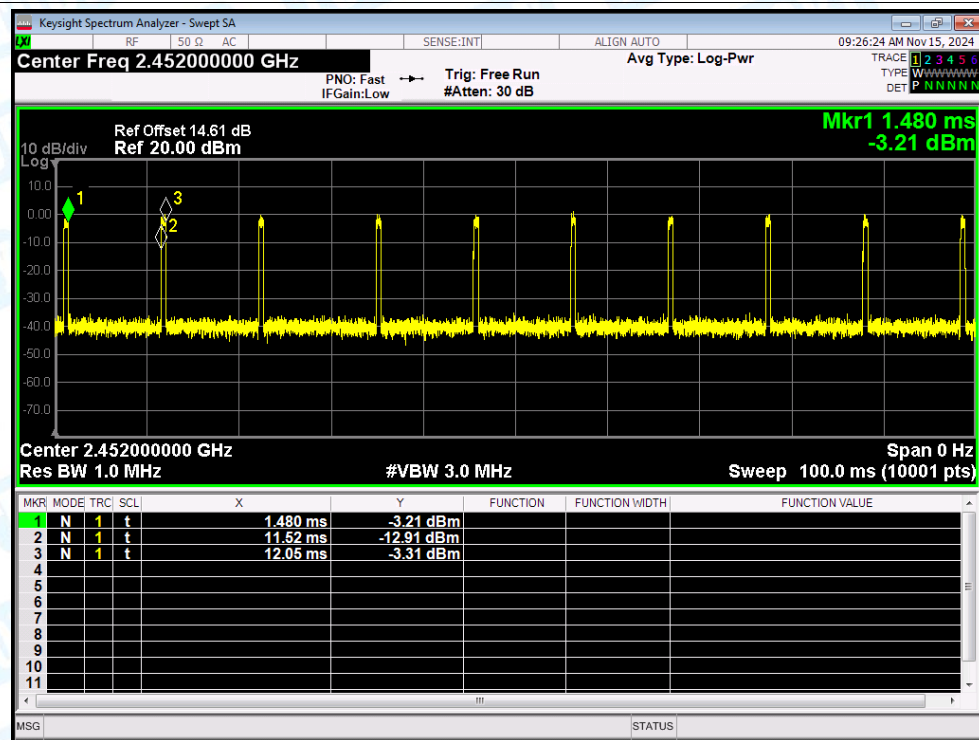
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



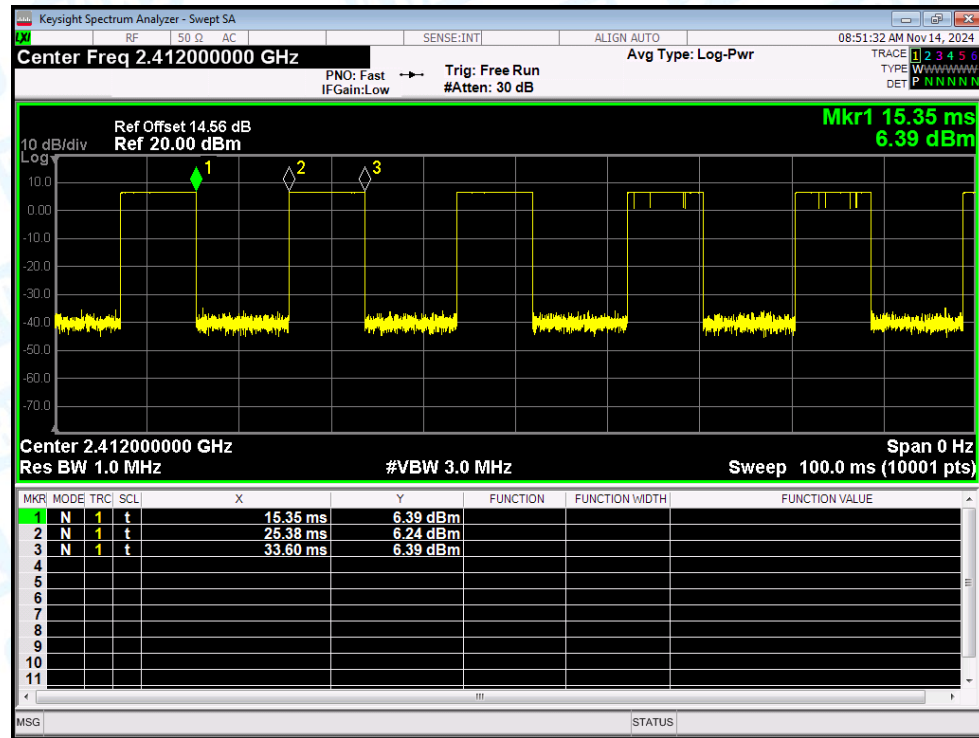
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



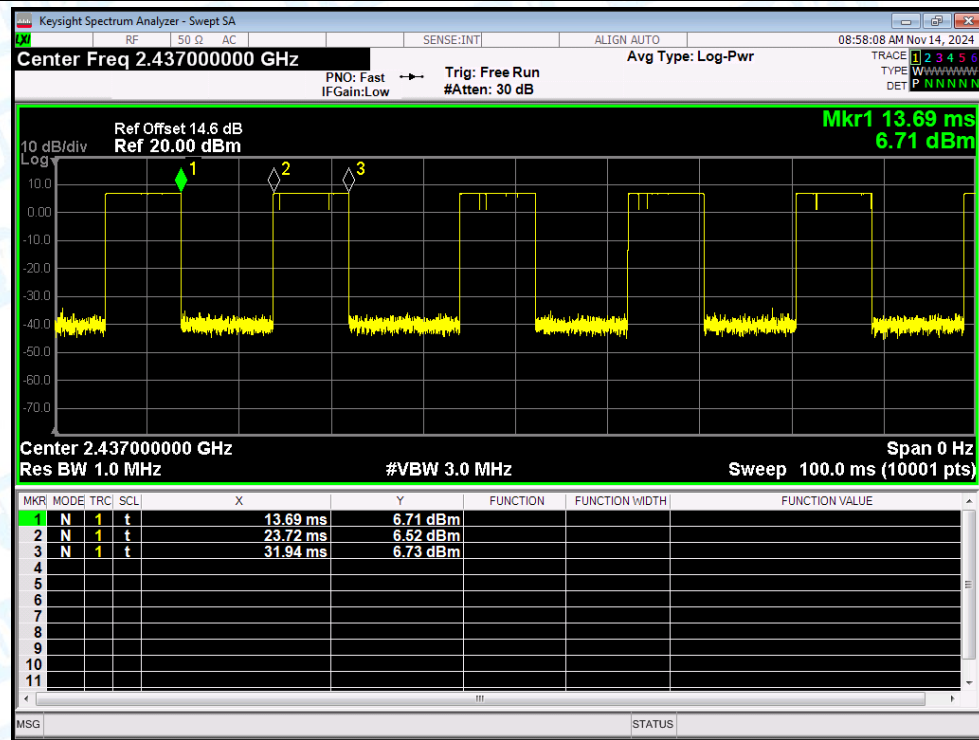
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



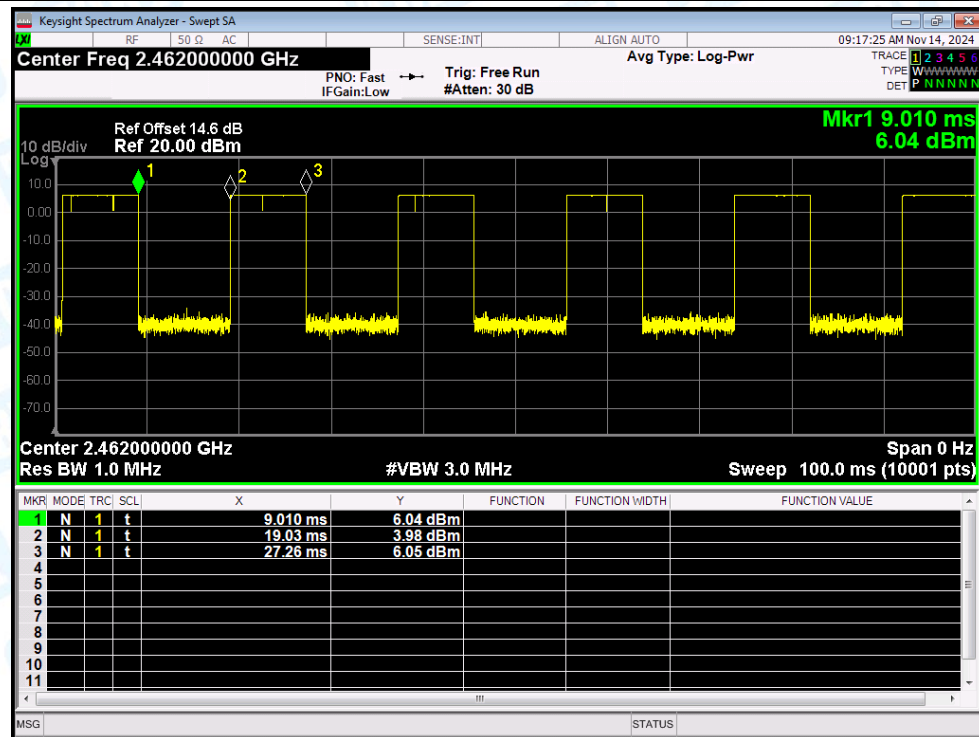
Duty Cycle NVNT b 2412MHz Ant1



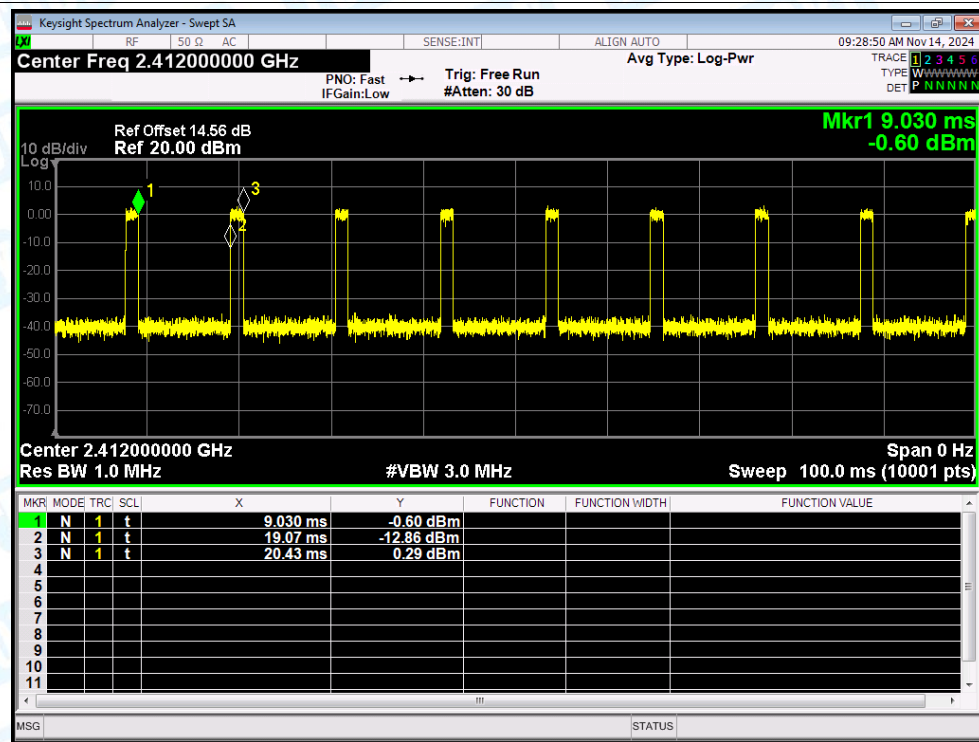
Duty Cycle NVNT b 2437MHz Ant1



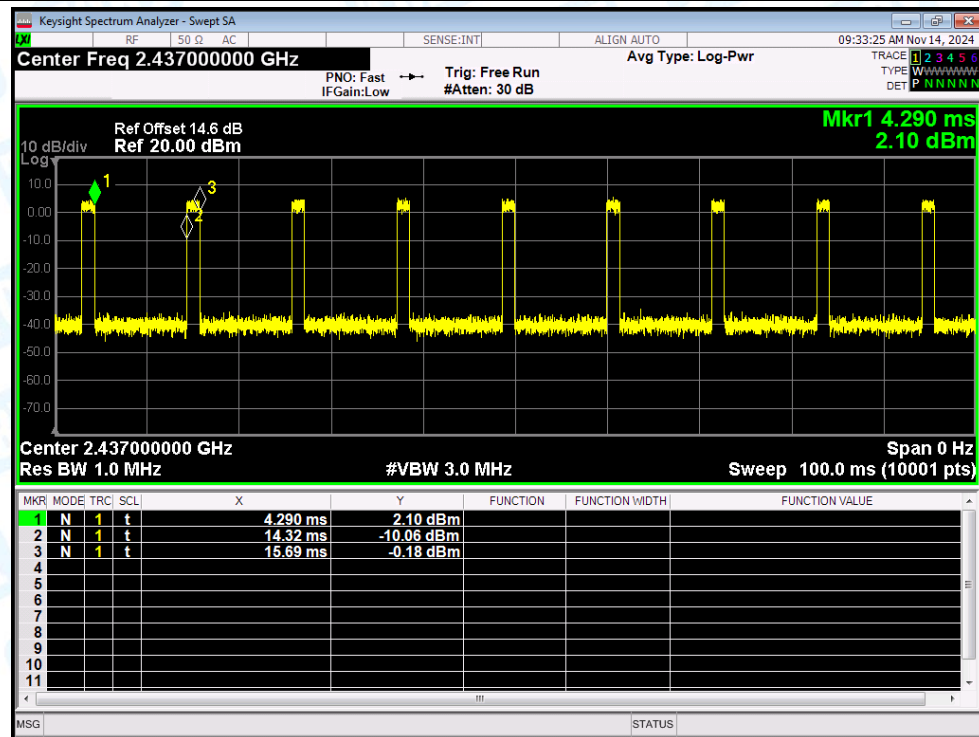
Duty Cycle NVNT b 2462MHz Ant1



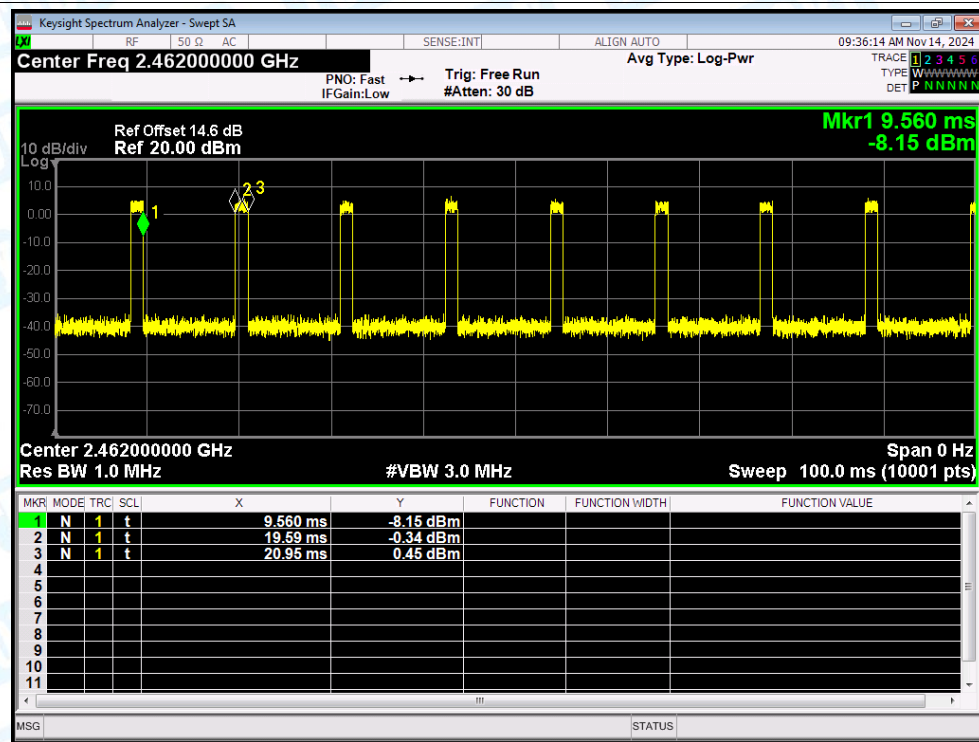
Duty Cycle NVNT g 2412MHz Ant1



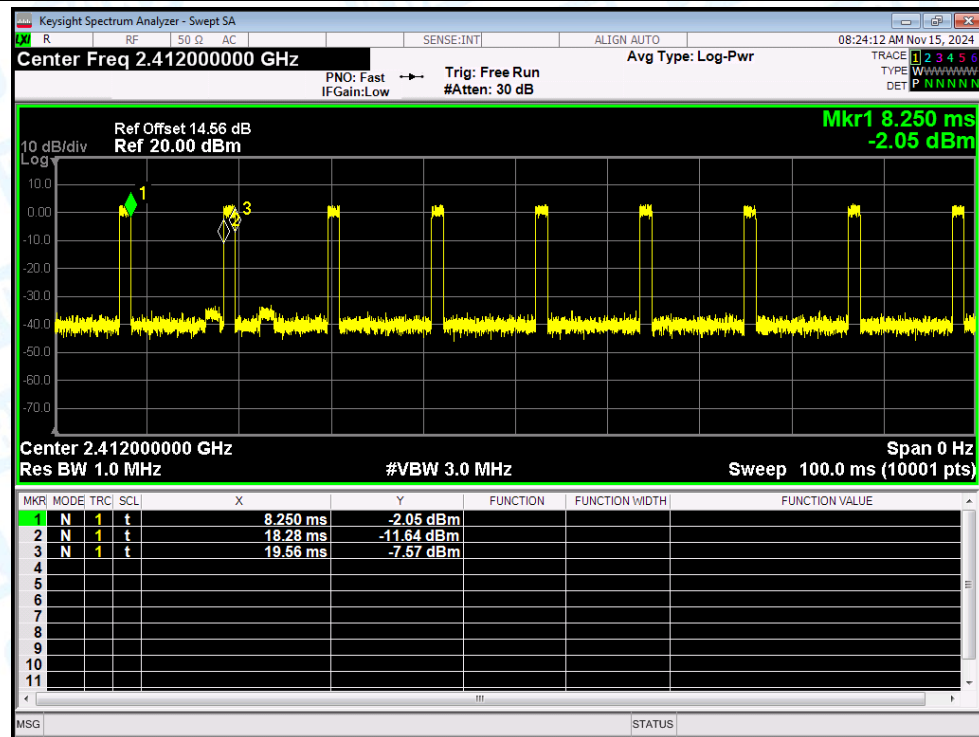
Duty Cycle NVNT g 2437MHz Ant1



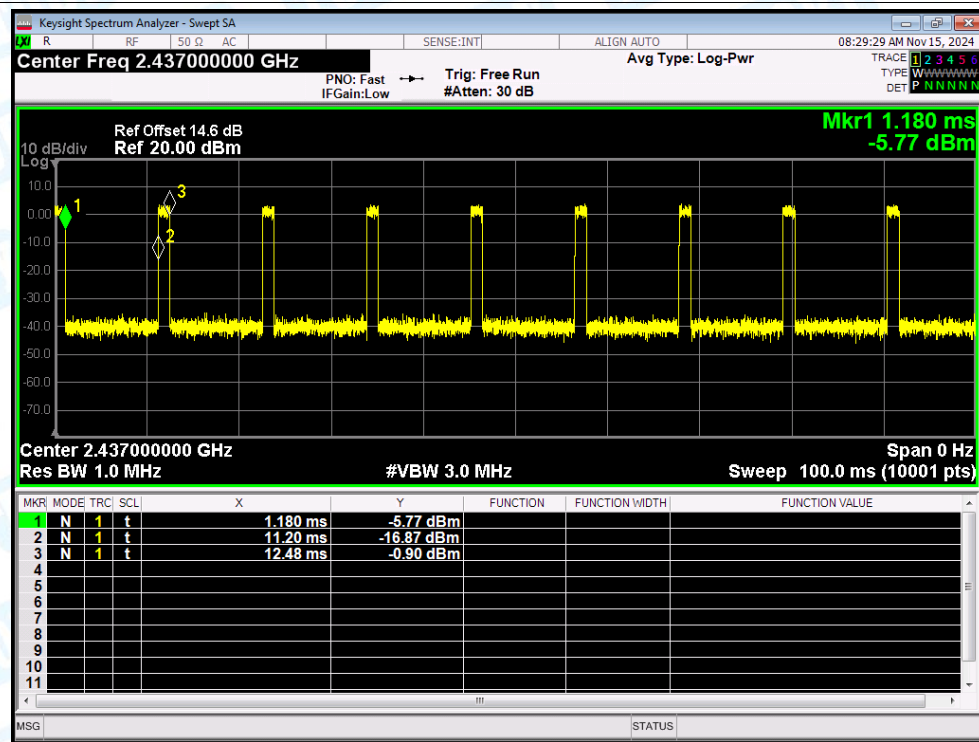
Duty Cycle NVNT g 2462MHz Ant1



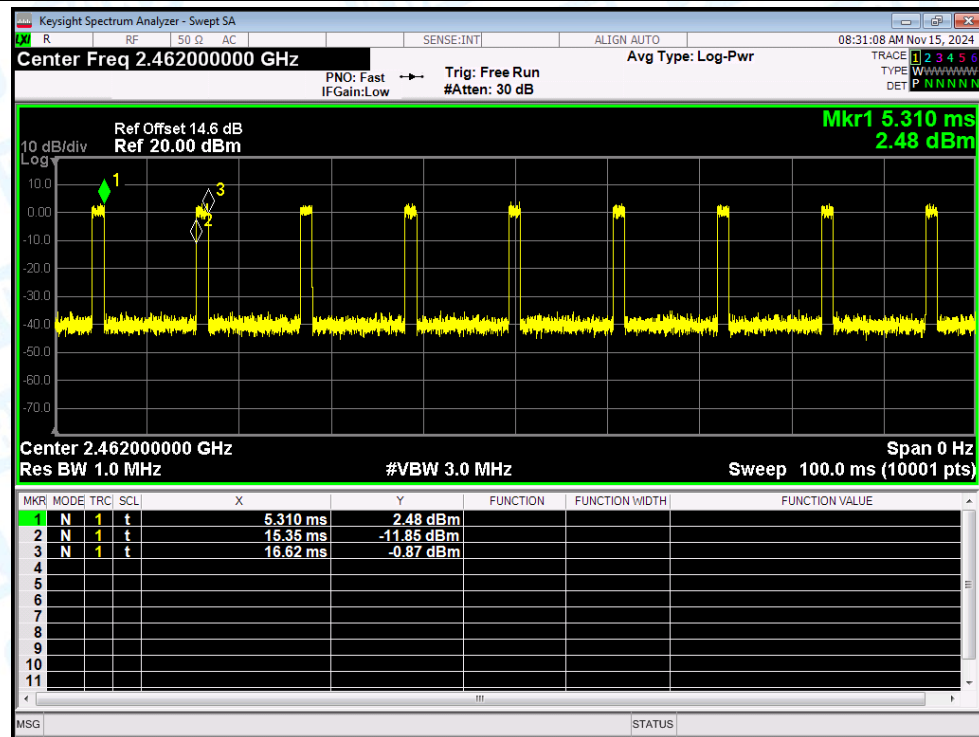
Duty Cycle NVNT n(HT20) 2412MHz Ant1



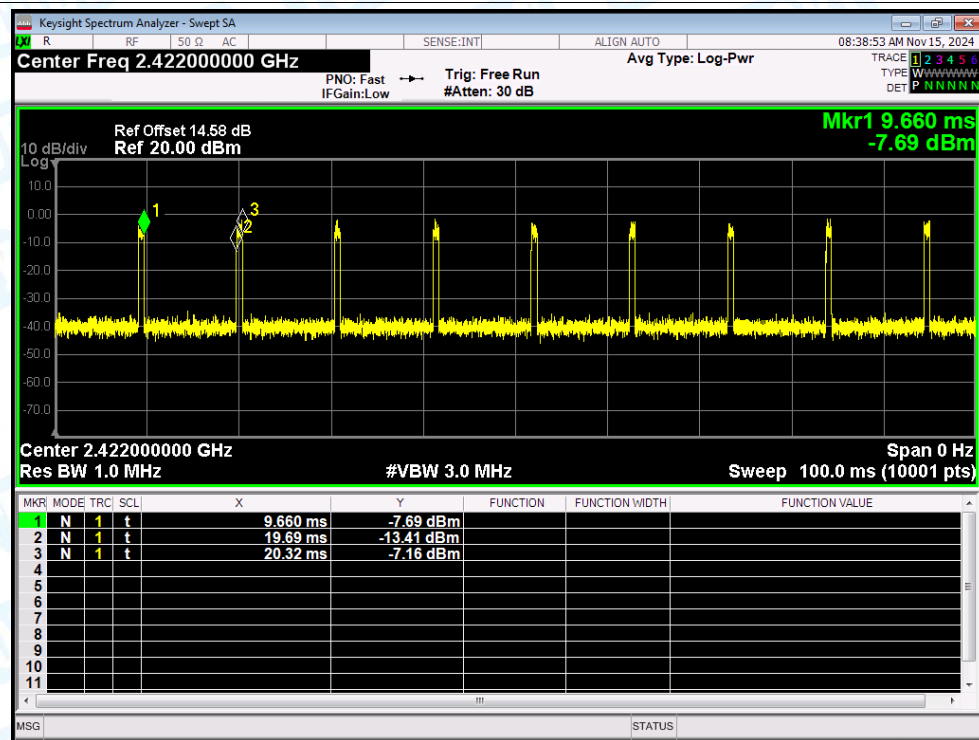
Duty Cycle NVNT n(HT20) 2437MHz Ant1



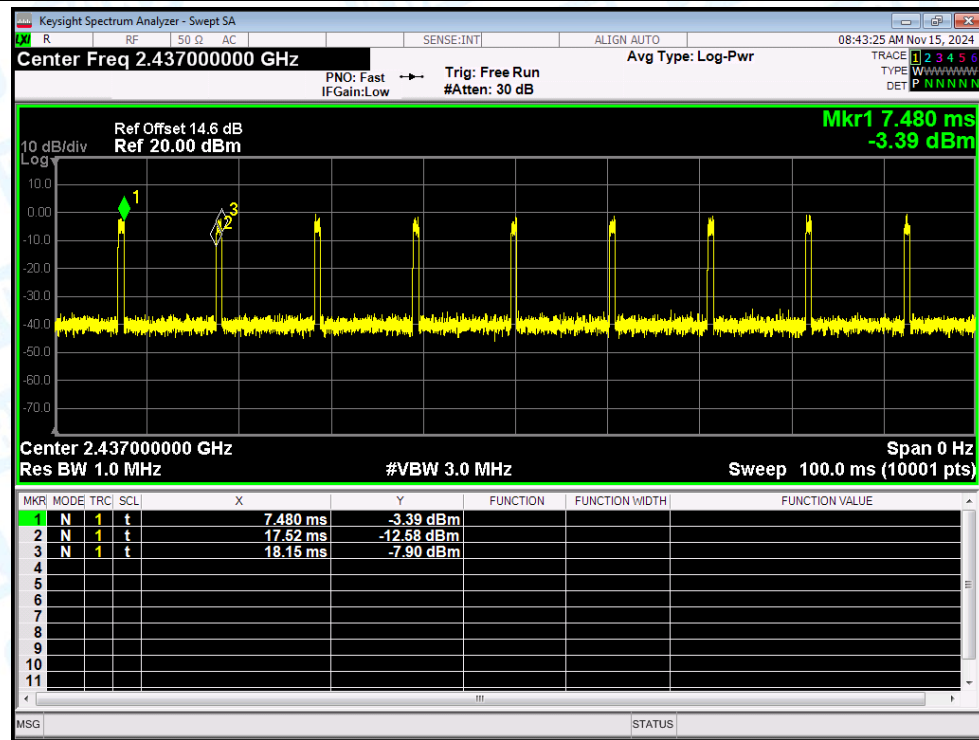
Duty Cycle NVNT n(HT20) 2462MHz Ant1



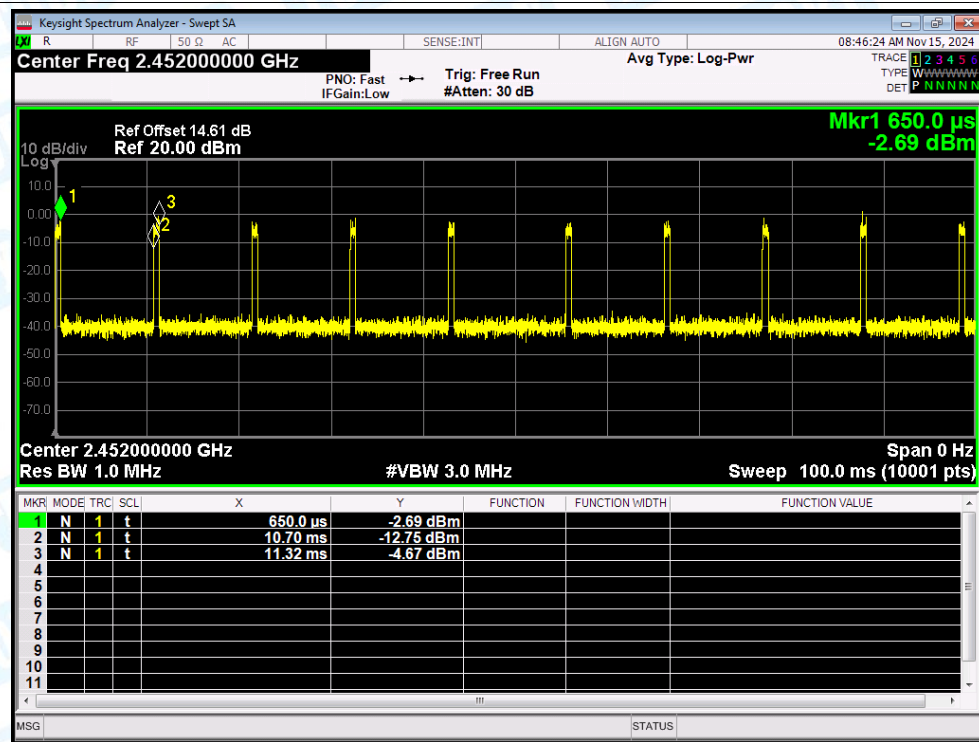
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	17.59	30	Pass
NVNT	ax(VHT20)	2437	Ant1	17.92	30	Pass
NVNT	ax(VHT20)	2462	Ant1	17.16	30	Pass
NVNT	ax(VHT40)	2422	Ant1	19.79	30	Pass
NVNT	ax(VHT40)	2437	Ant1	19.27	30	Pass
NVNT	ax(VHT40)	2452	Ant1	19.95	30	Pass
NVNT	b	2412	Ant1	16.28	30	Pass
NVNT	b	2437	Ant1	15.55	30	Pass
NVNT	b	2462	Ant1	15.86	30	Pass
NVNT	g	2412	Ant1	15.53	30	Pass
NVNT	g	2437	Ant1	16.83	30	Pass
NVNT	g	2462	Ant1	16.11	30	Pass
NVNT	n(HT20)	2412	Ant1	16.70	30	Pass
NVNT	n(HT20)	2437	Ant1	17.03	30	Pass
NVNT	n(HT20)	2462	Ant1	16.31	30	Pass
NVNT	n(HT40)	2422	Ant1	19.09	30	Pass
NVNT	n(HT40)	2437	Ant1	19.76	30	Pass
NVNT	n(HT40)	2452	Ant1	19.33	30	Pass

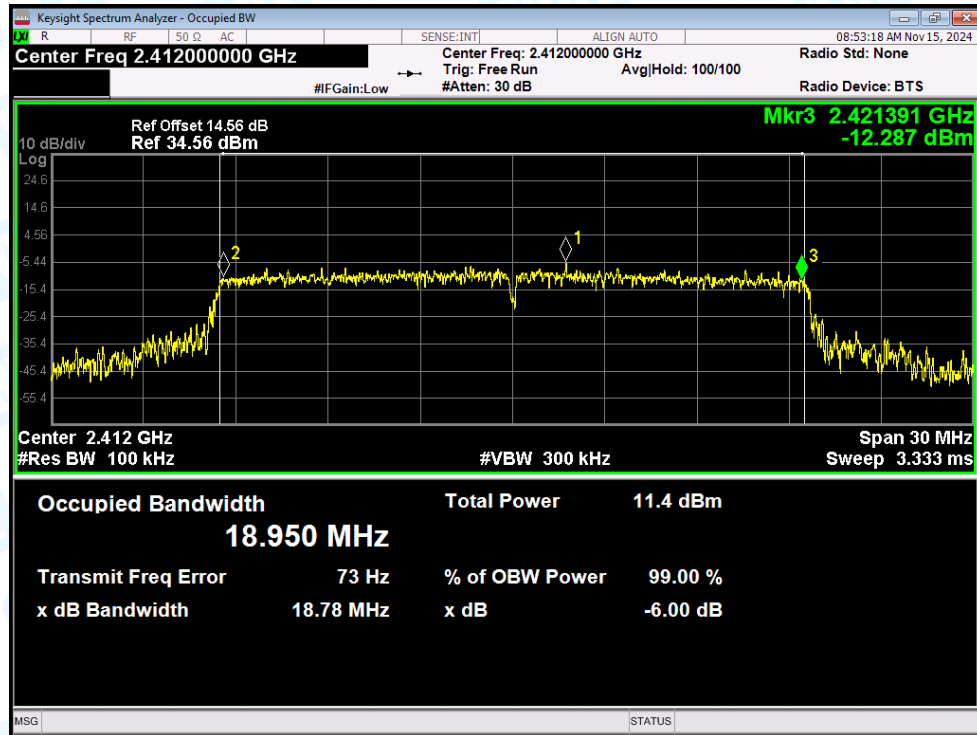
Note: The Duty Cycle Factor is compensated in the graph.

3. -6dB Bandwidth

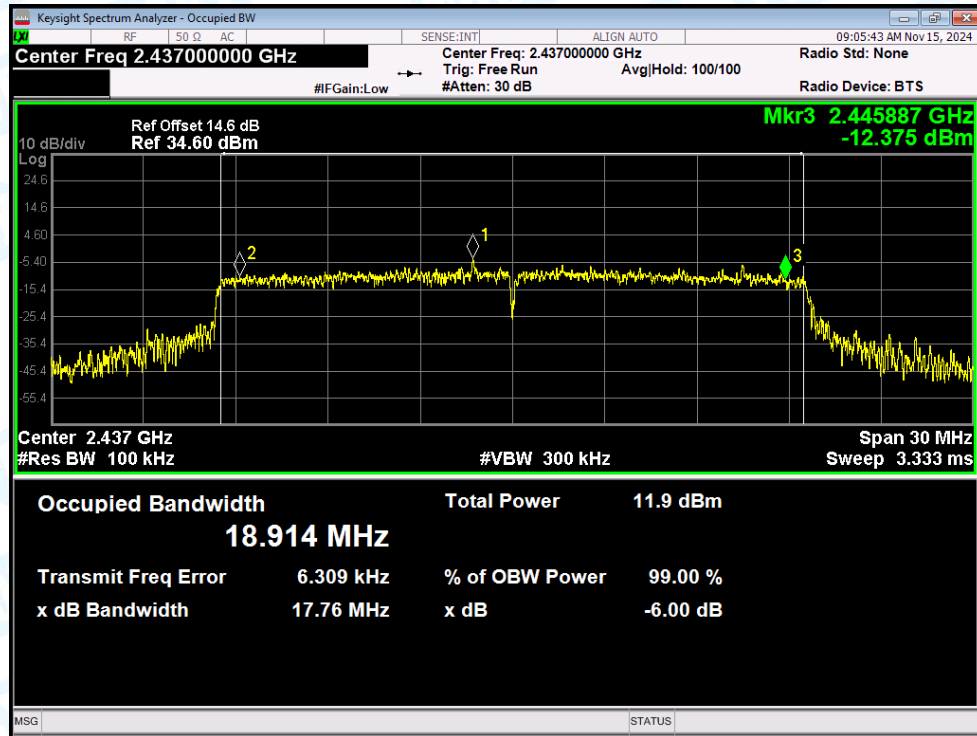
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	18.78	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	17.76	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	17.87	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	36.33	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	37.12	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	37.66	0.5	Pass
NVNT	b	2412	Ant1	8.54	0.5	Pass
NVNT	b	2437	Ant1	8.58	0.5	Pass
NVNT	b	2462	Ant1	9.05	0.5	Pass
NVNT	g	2412	Ant1	16.32	0.5	Pass
NVNT	g	2437	Ant1	16.42	0.5	Pass
NVNT	g	2462	Ant1	16.36	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.31	0.5	Pass
NVNT	n(HT20)	2437	Ant1	16.56	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.31	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.7	0.5	Pass
NVNT	n(HT40)	2437	Ant1	29.64	0.5	Pass
NVNT	n(HT40)	2452	Ant1	31.93	0.5	Pass

Test Graphs

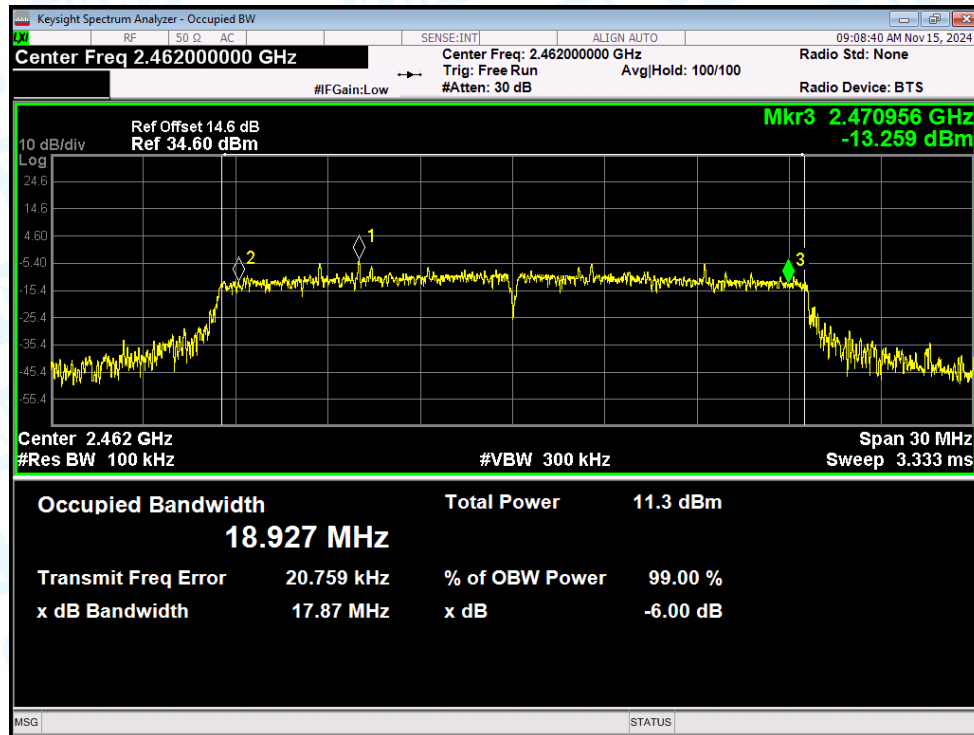
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



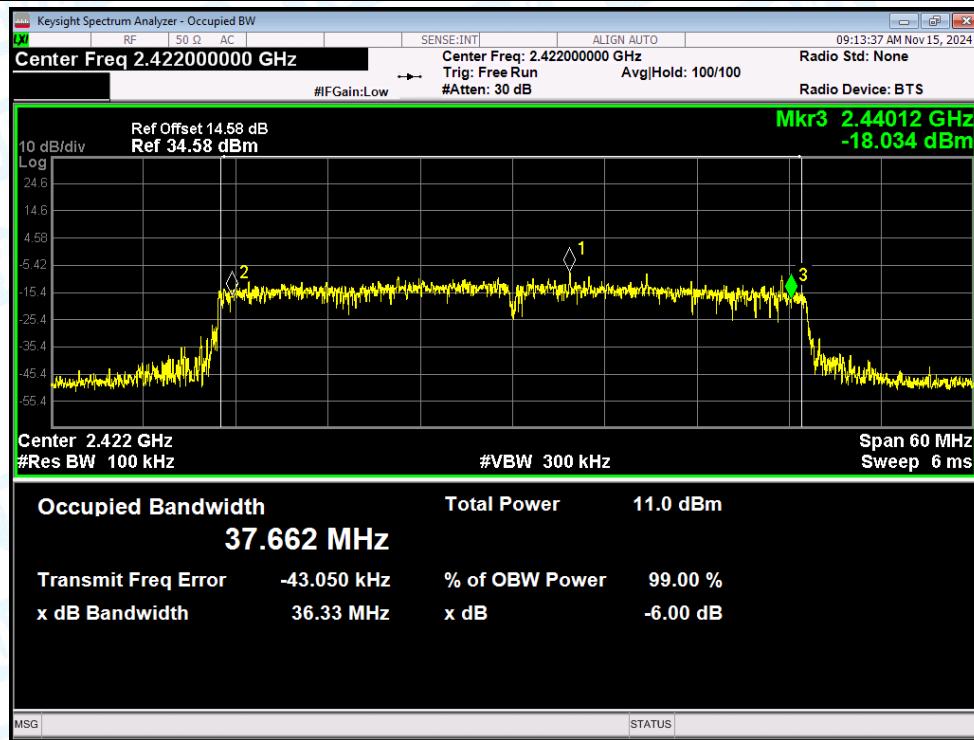
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



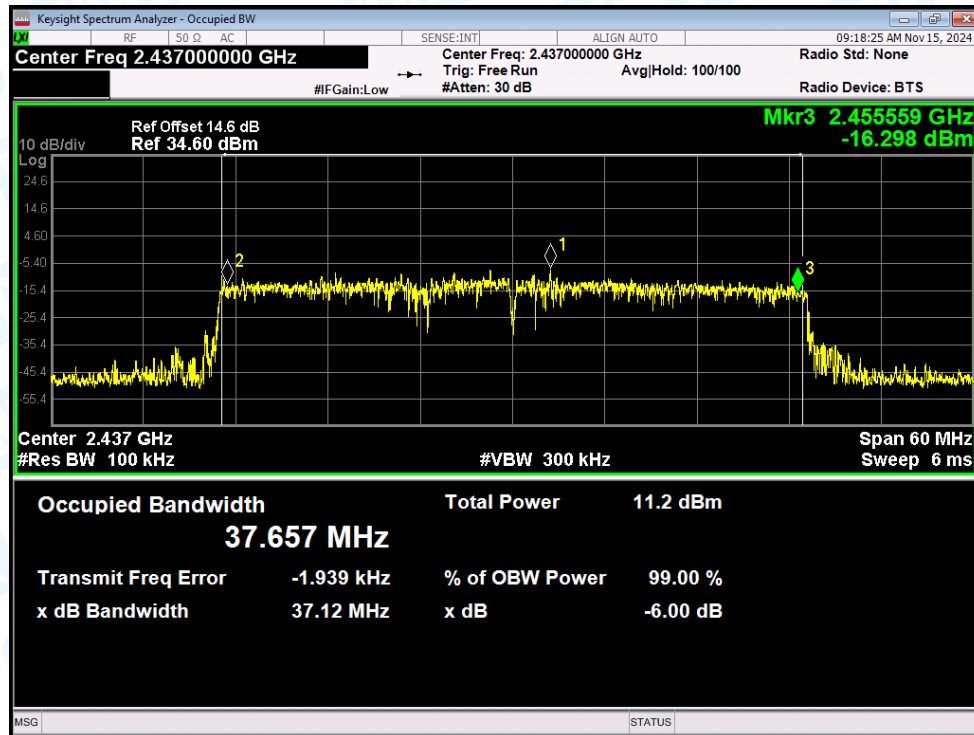
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



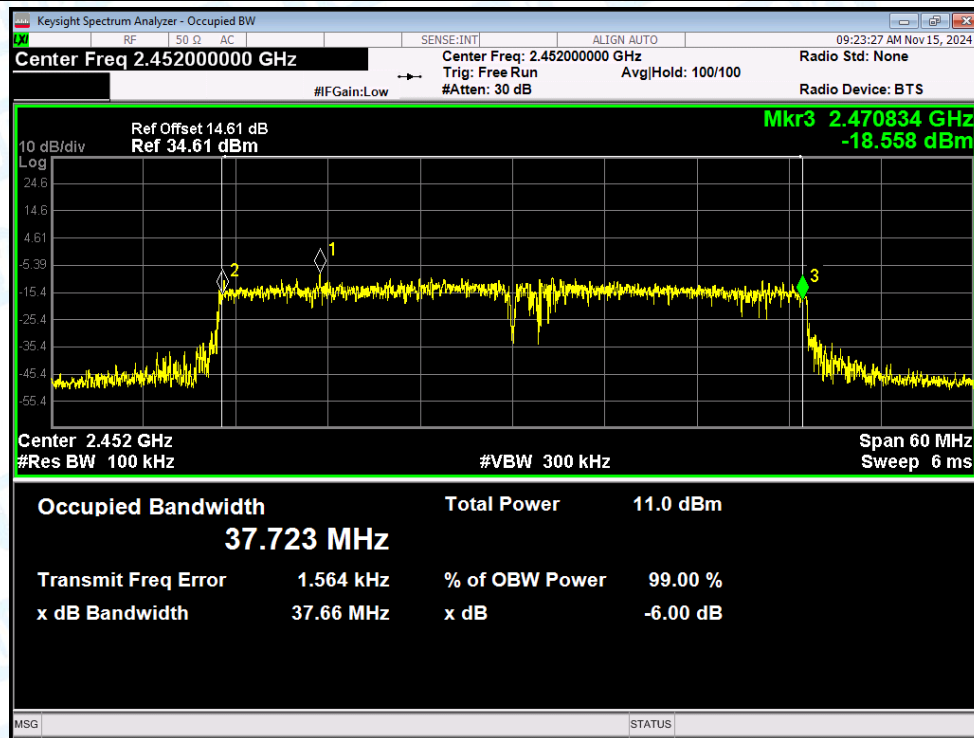
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



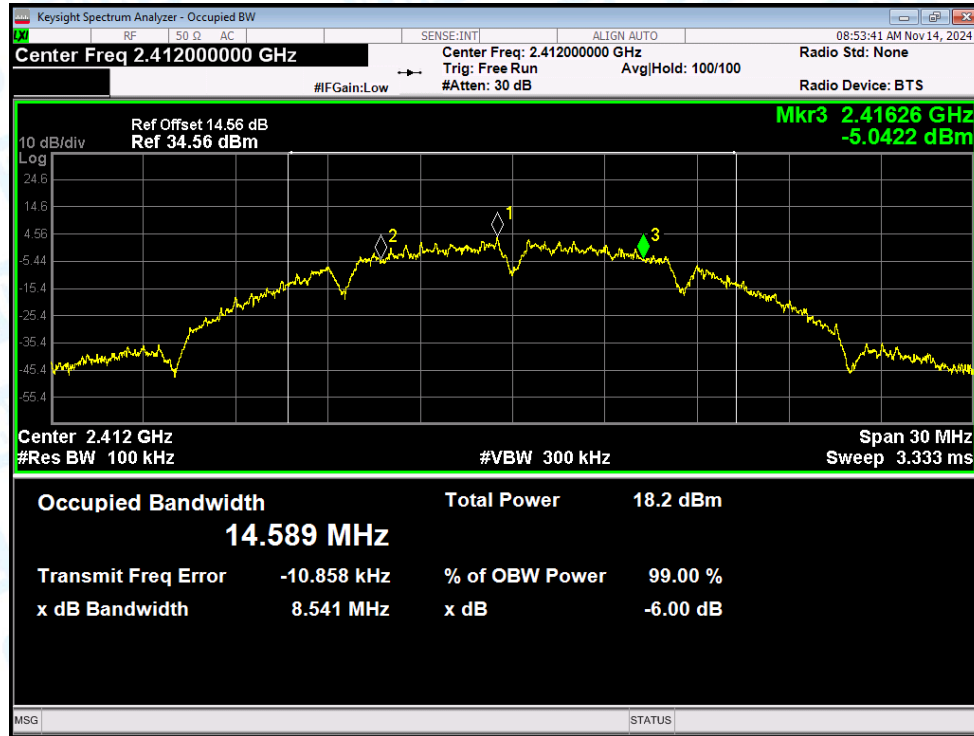
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



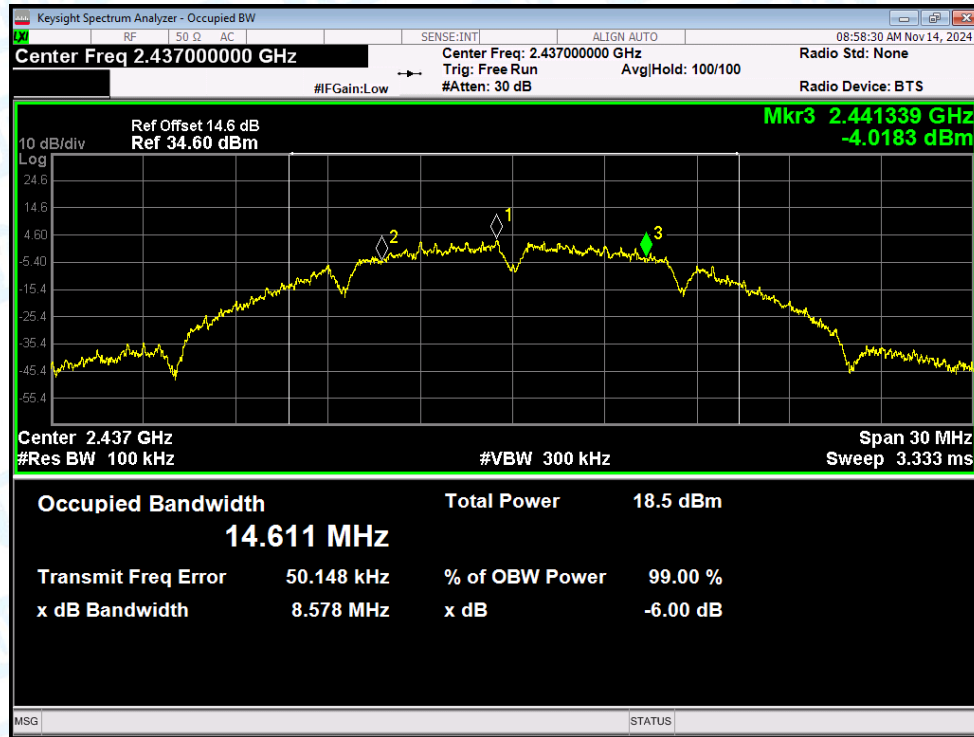
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



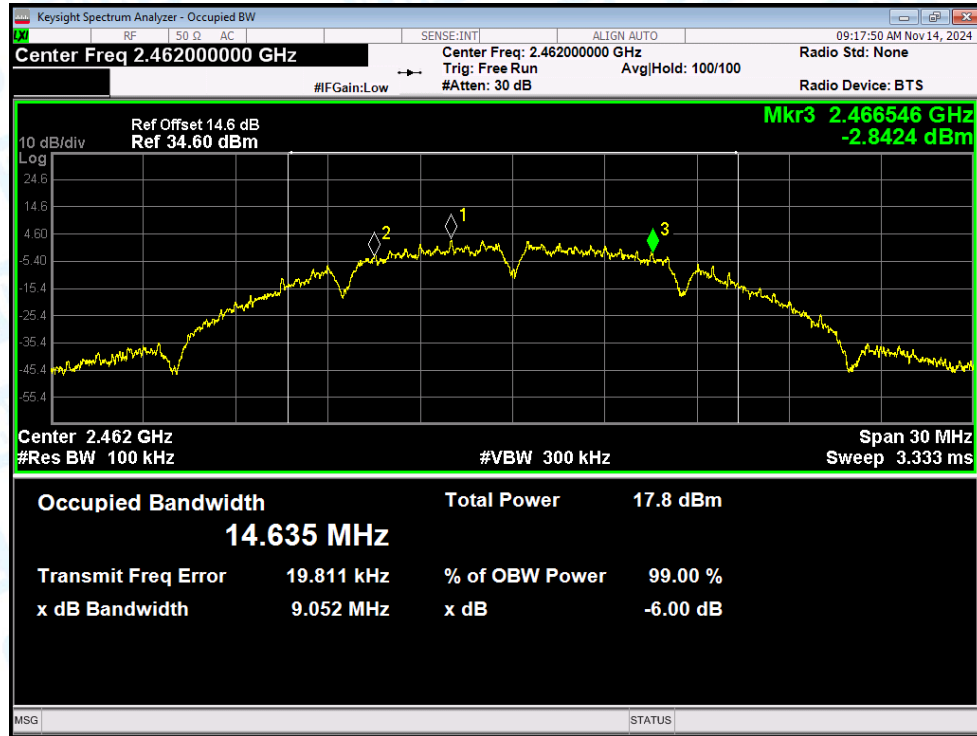
-6dB Bandwidth NVNT b 2412MHz Ant1



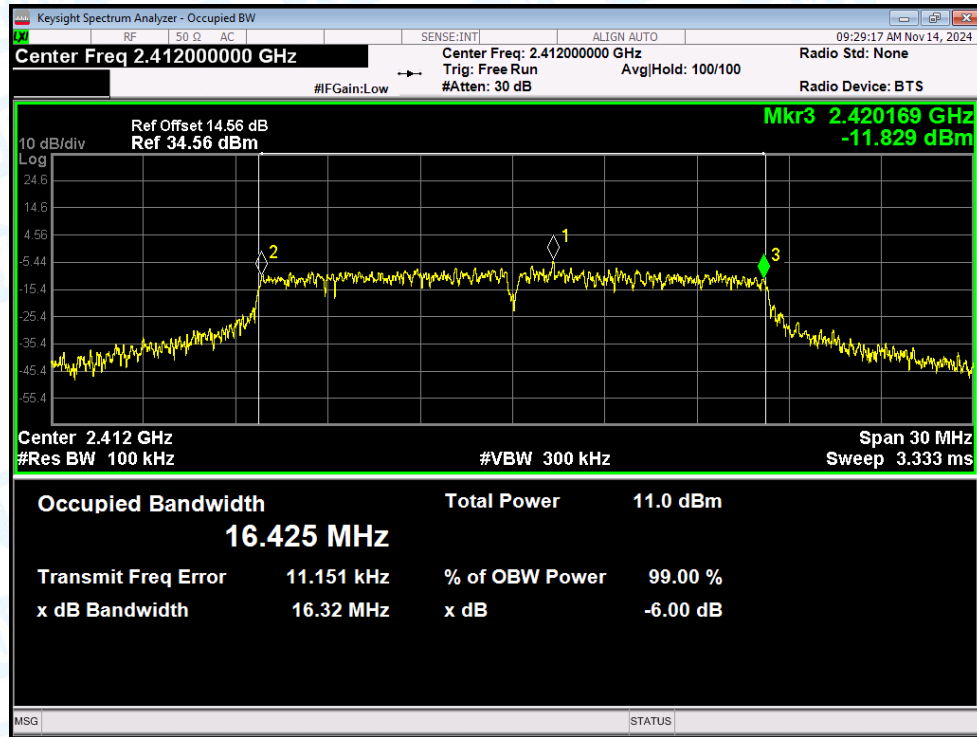
-6dB Bandwidth NVNT b 2437MHz Ant1



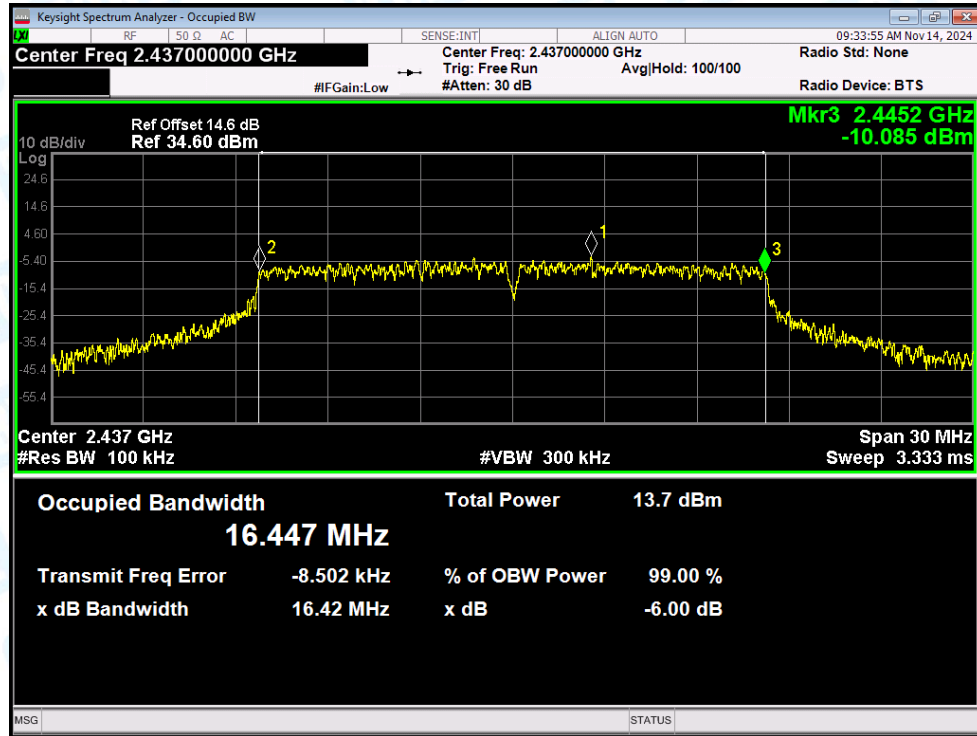
-6dB Bandwidth NVNT b 2462MHz Ant1



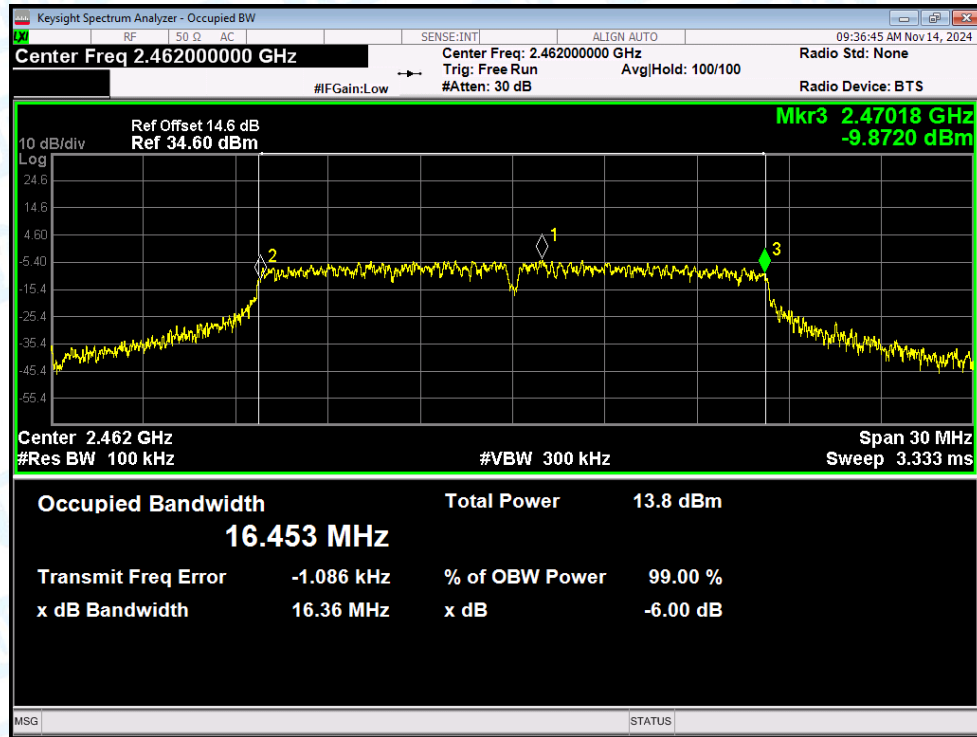
-6dB Bandwidth NVNT g 2412MHz Ant1



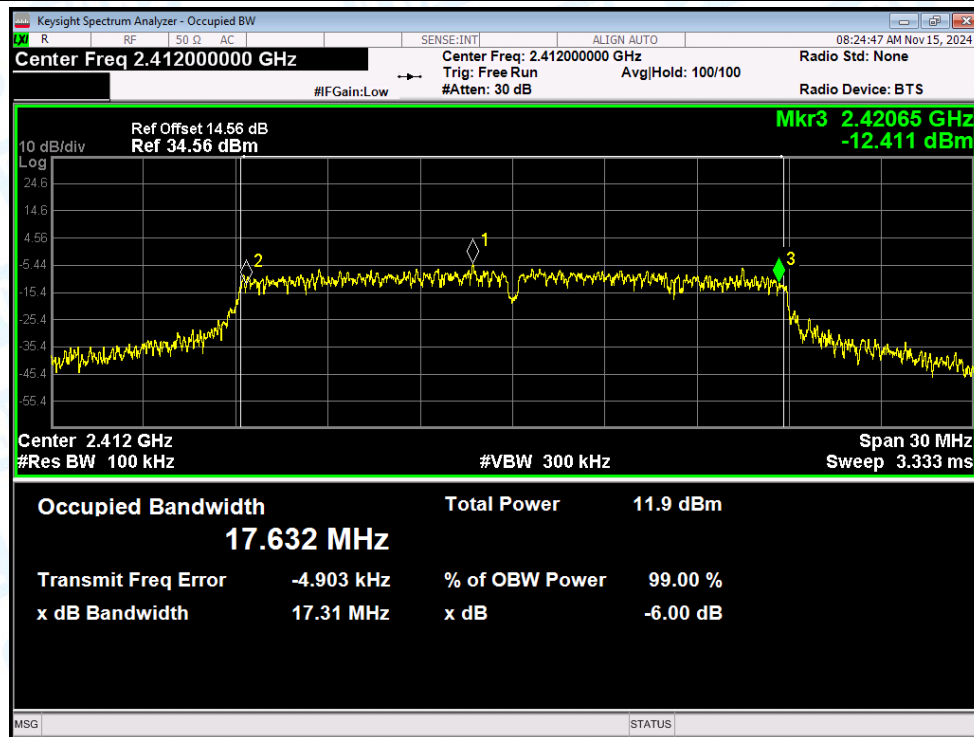
-6dB Bandwidth NVNT g 2437MHz Ant1



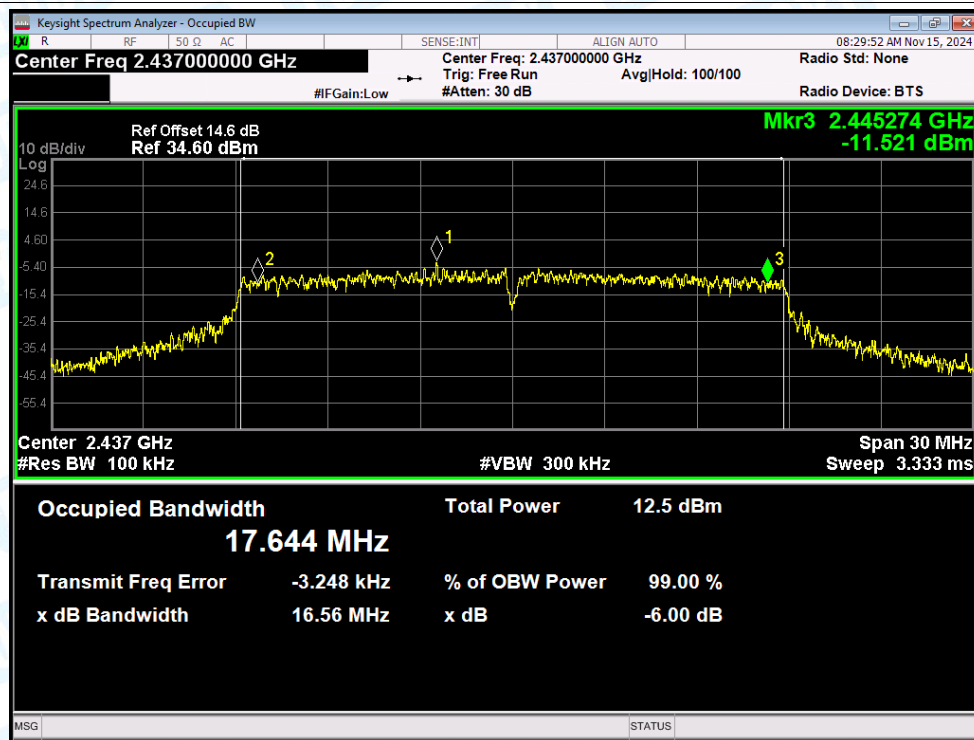
-6dB Bandwidth NVNT g 2462MHz Ant1



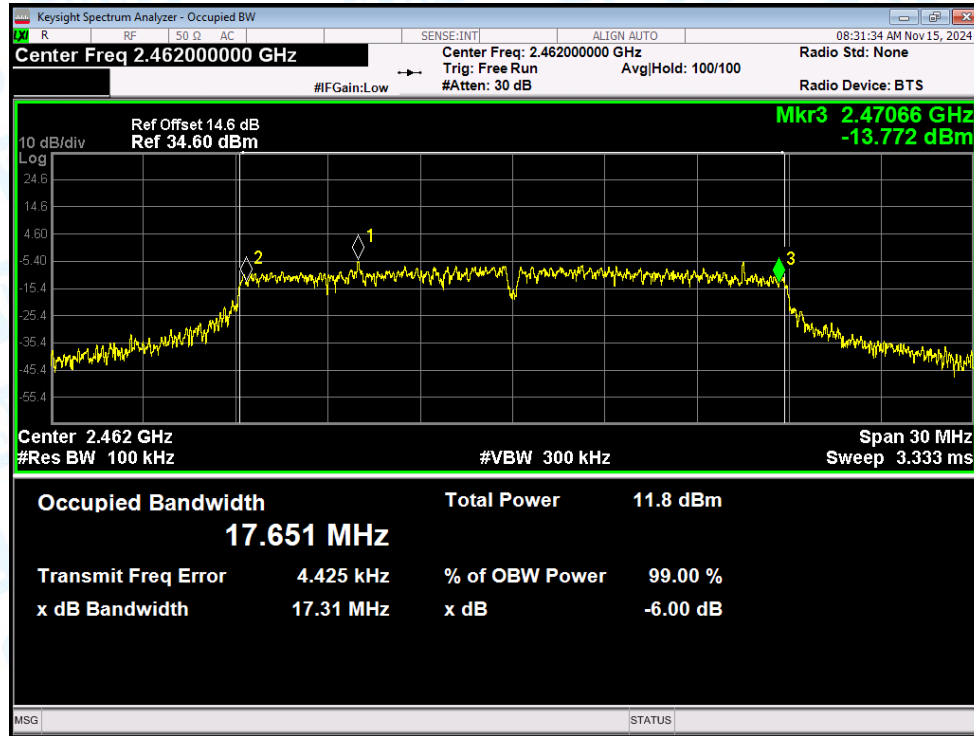
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



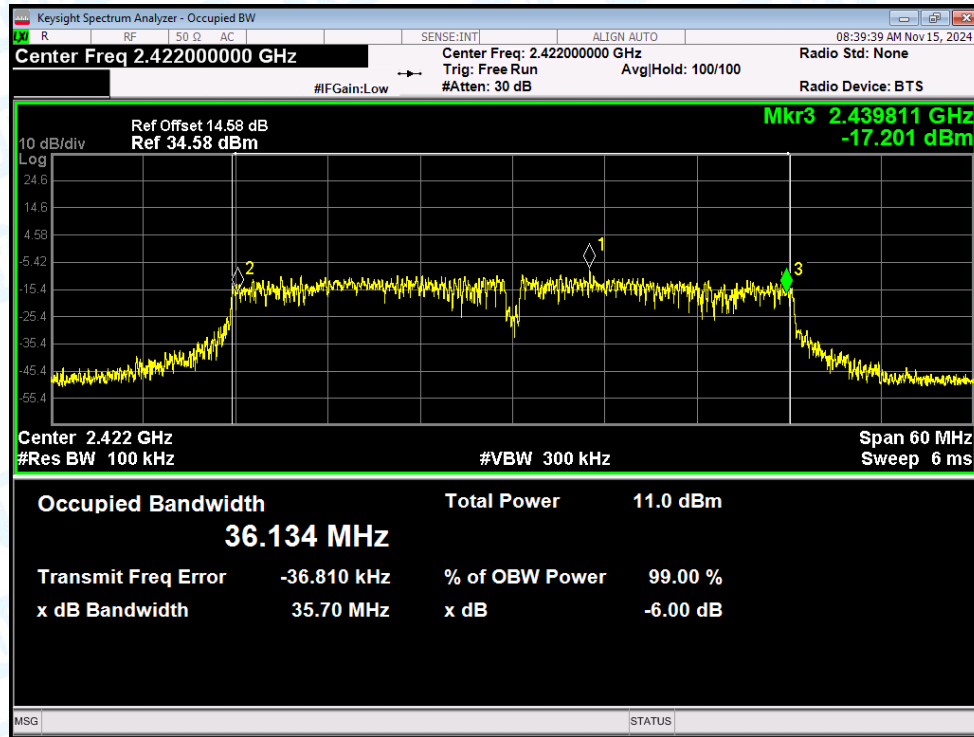
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



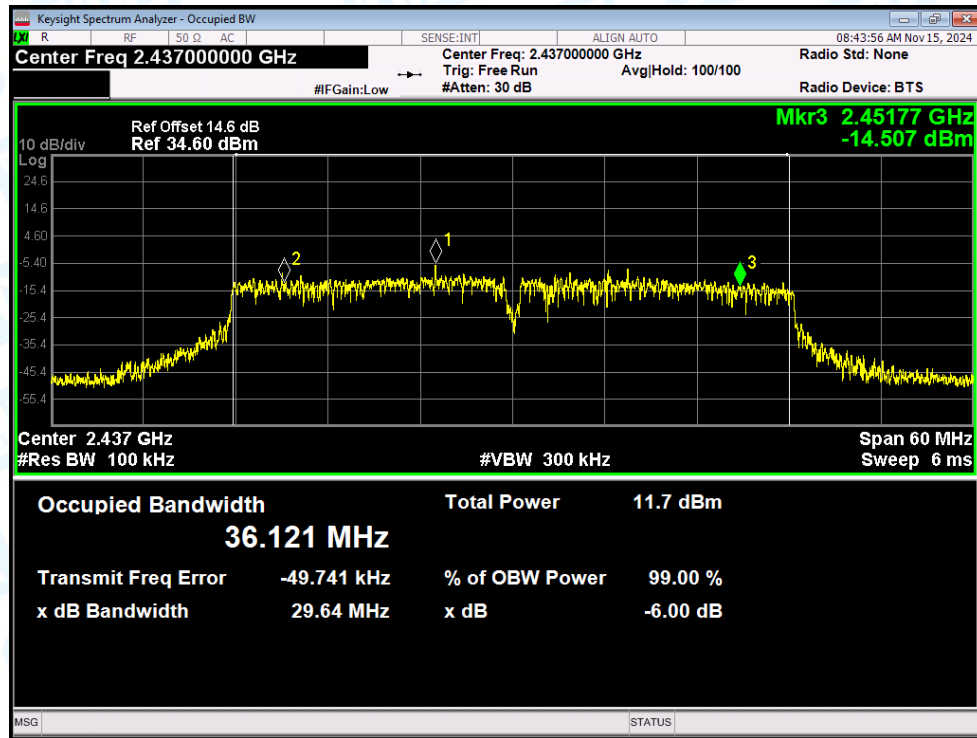
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



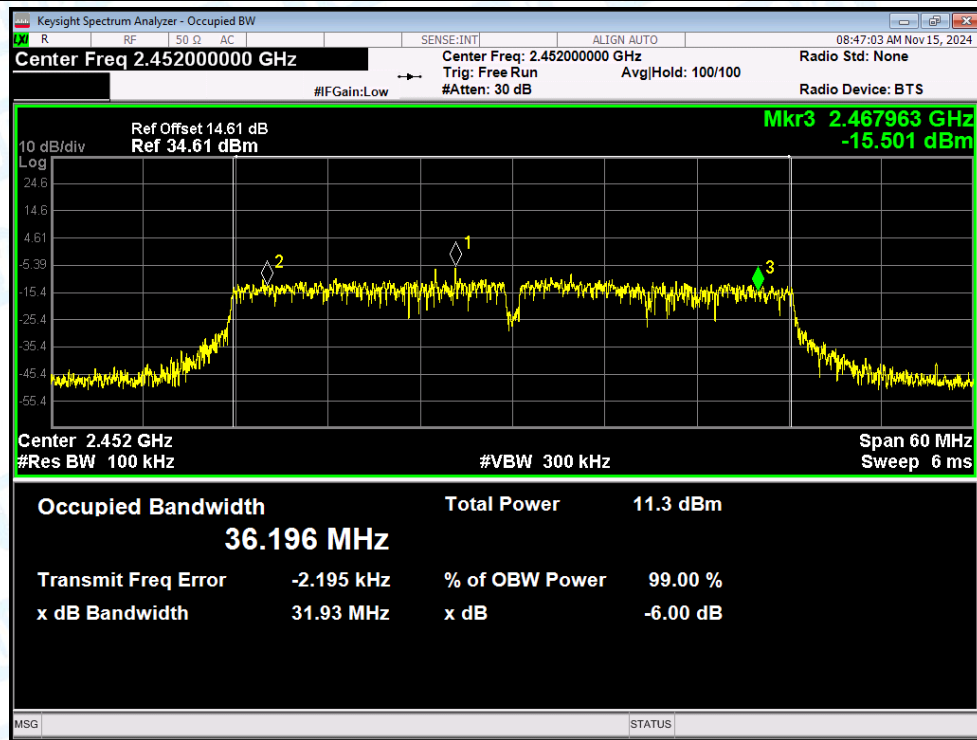
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

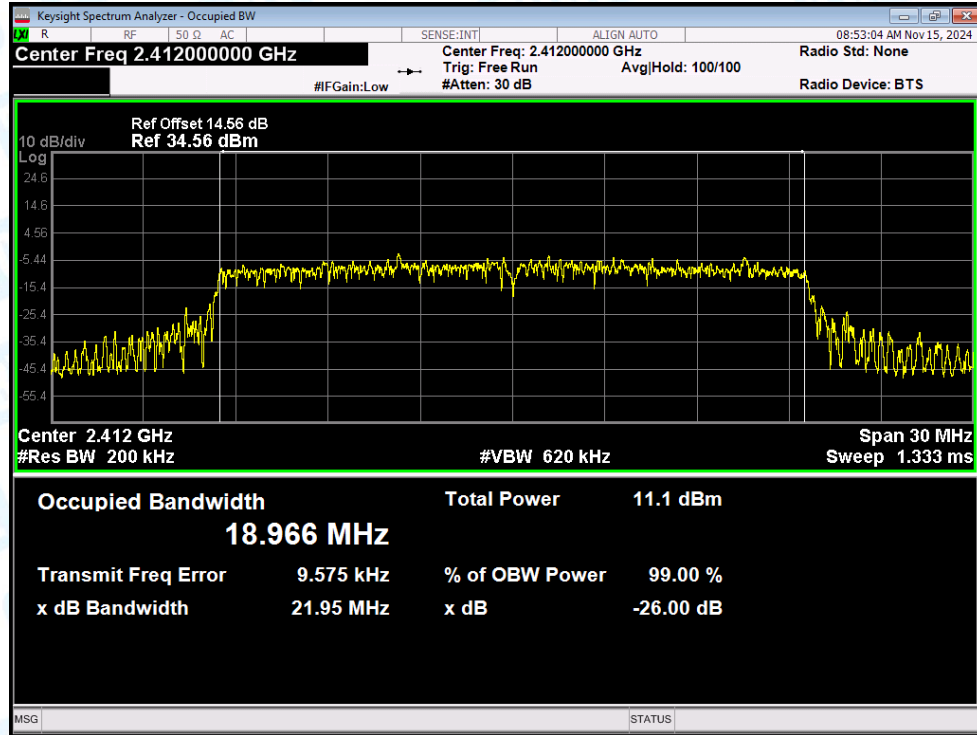


4. Occupied Channel Bandwidth

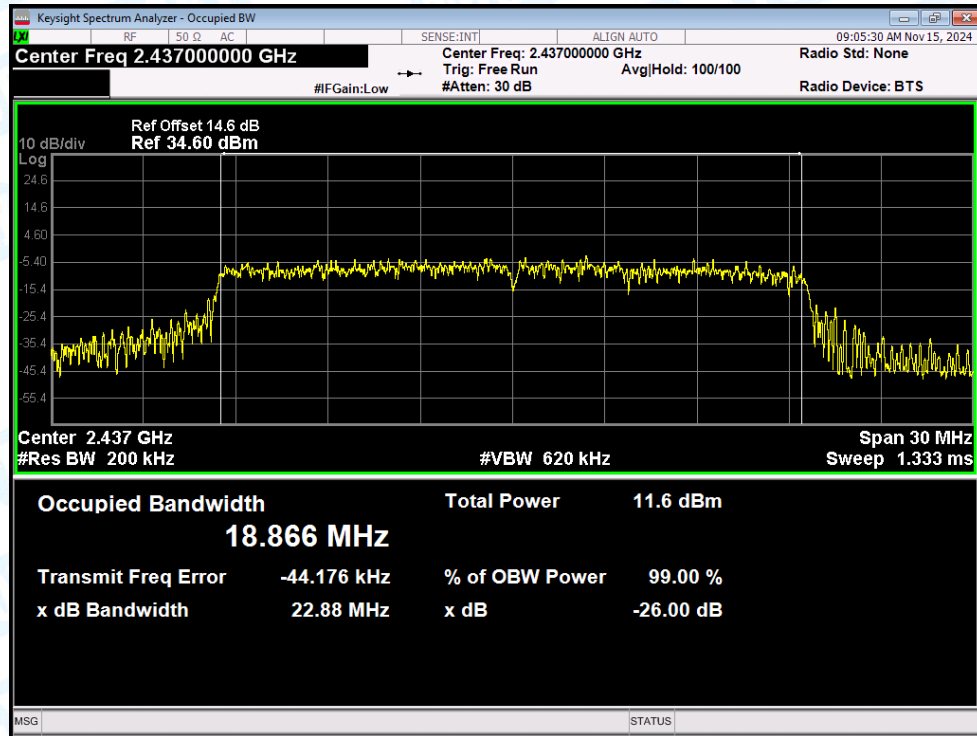
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.966
NVNT	ax(VHT20)	2437	Ant1	18.866
NVNT	ax(VHT20)	2462	Ant1	18.906
NVNT	ax(VHT40)	2422	Ant1	37.87
NVNT	ax(VHT40)	2437	Ant1	37.721
NVNT	ax(VHT40)	2452	Ant1	37.773
NVNT	b	2412	Ant1	14.732
NVNT	b	2437	Ant1	14.667
NVNT	b	2462	Ant1	14.676
NVNT	g	2412	Ant1	16.54
NVNT	g	2437	Ant1	16.504
NVNT	g	2462	Ant1	16.57
NVNT	n(HT20)	2412	Ant1	17.714
NVNT	n(HT20)	2437	Ant1	17.767
NVNT	n(HT20)	2462	Ant1	17.756
NVNT	n(HT40)	2422	Ant1	36.145
NVNT	n(HT40)	2437	Ant1	36.242
NVNT	n(HT40)	2452	Ant1	36.187

Test Graphs

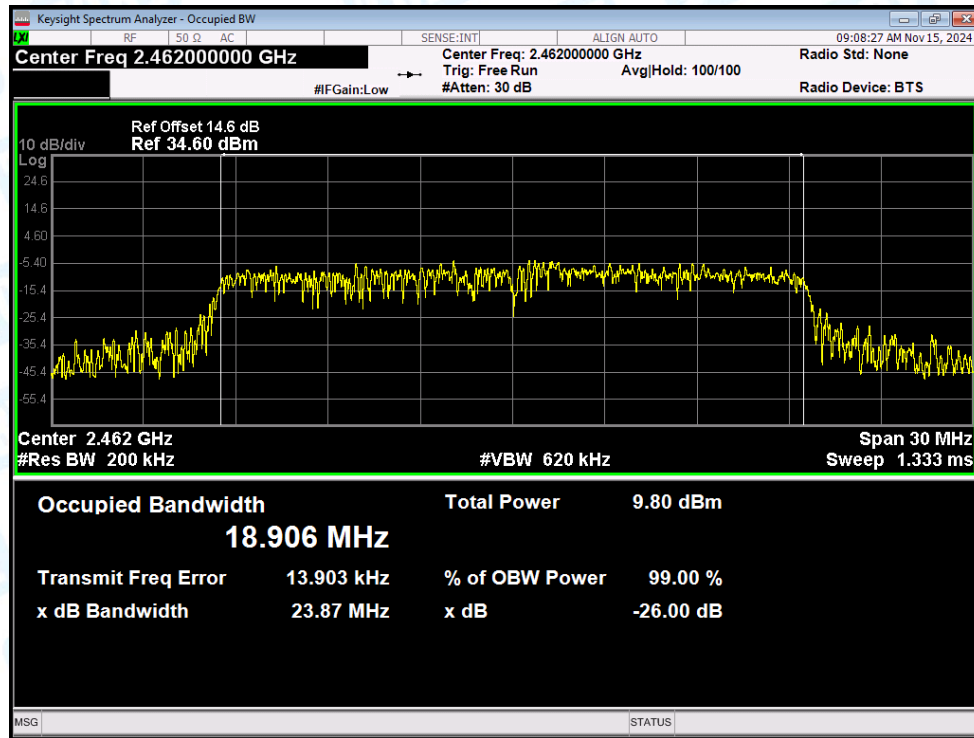
OBW NVNT ax(VHT20) 2412MHz Ant1



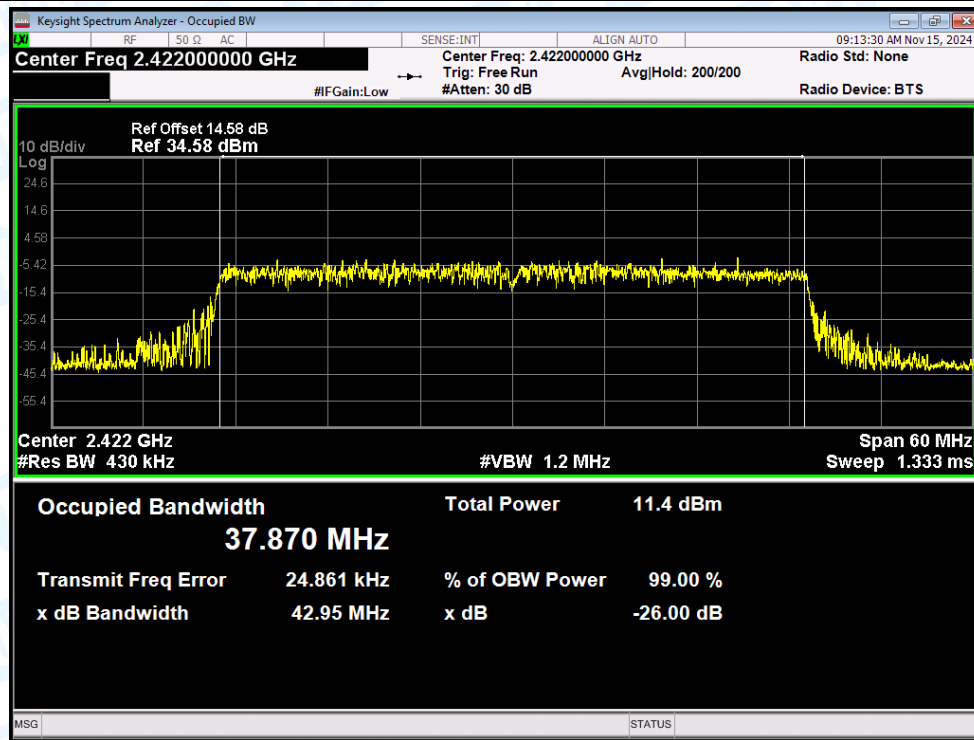
OBW NVNT ax(VHT20) 2437MHz Ant1



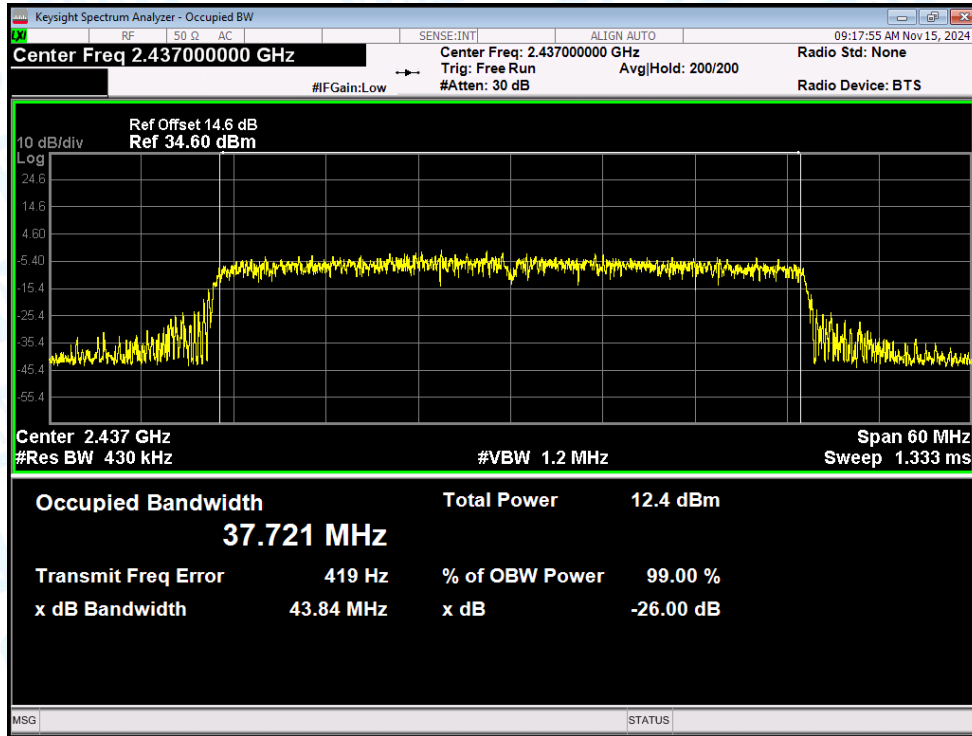
OBW NVNT ax(VHT20) 2462MHz Ant1



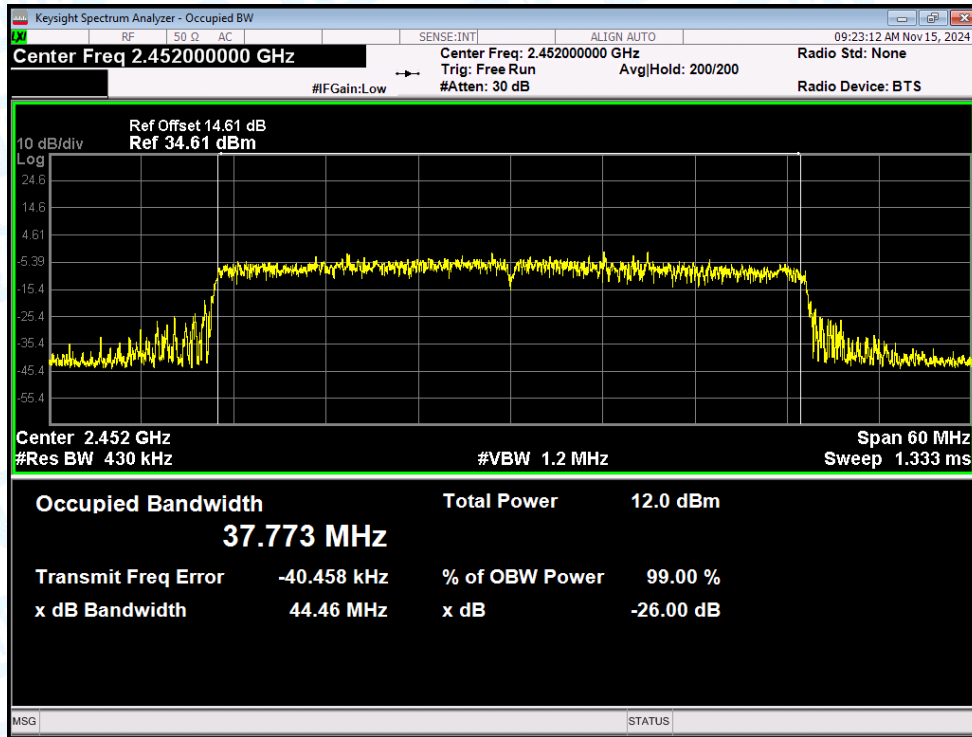
OBW NVNT ax(VHT40) 2422MHz Ant1



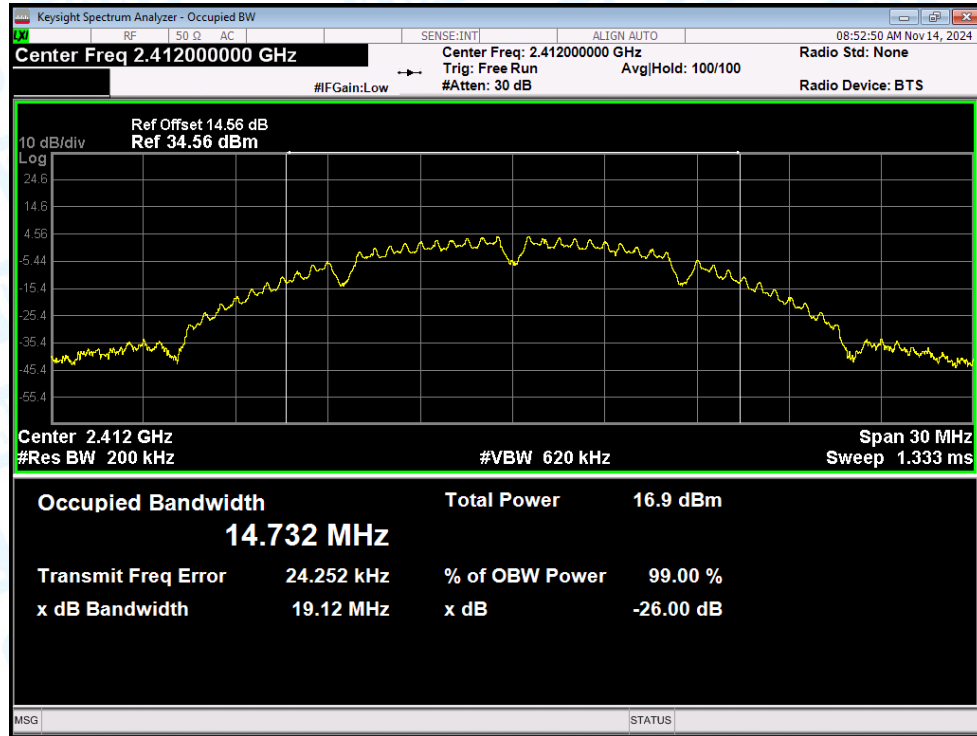
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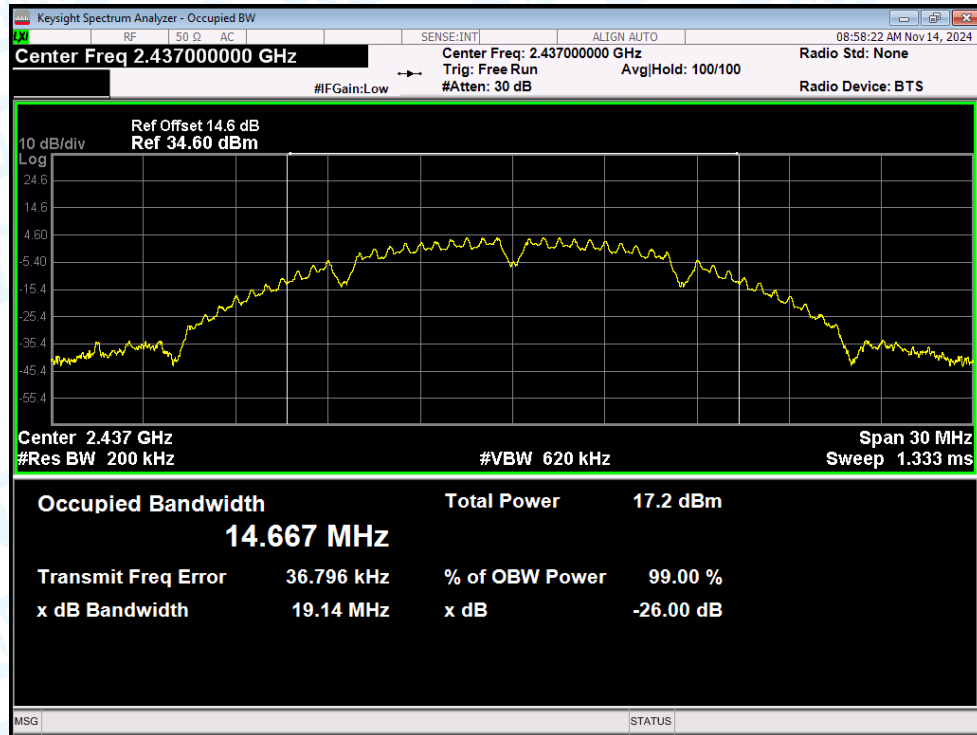
OBW NVNT ax(VHT40) 2452MHz Ant1



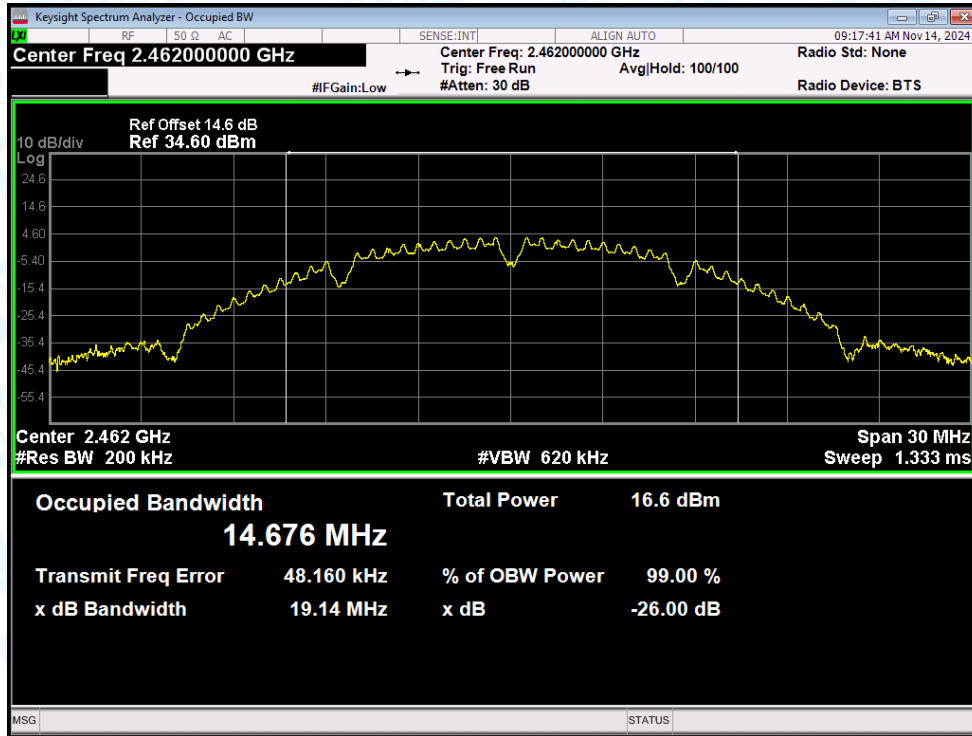
OBW NVNT b 2412MHz Ant1



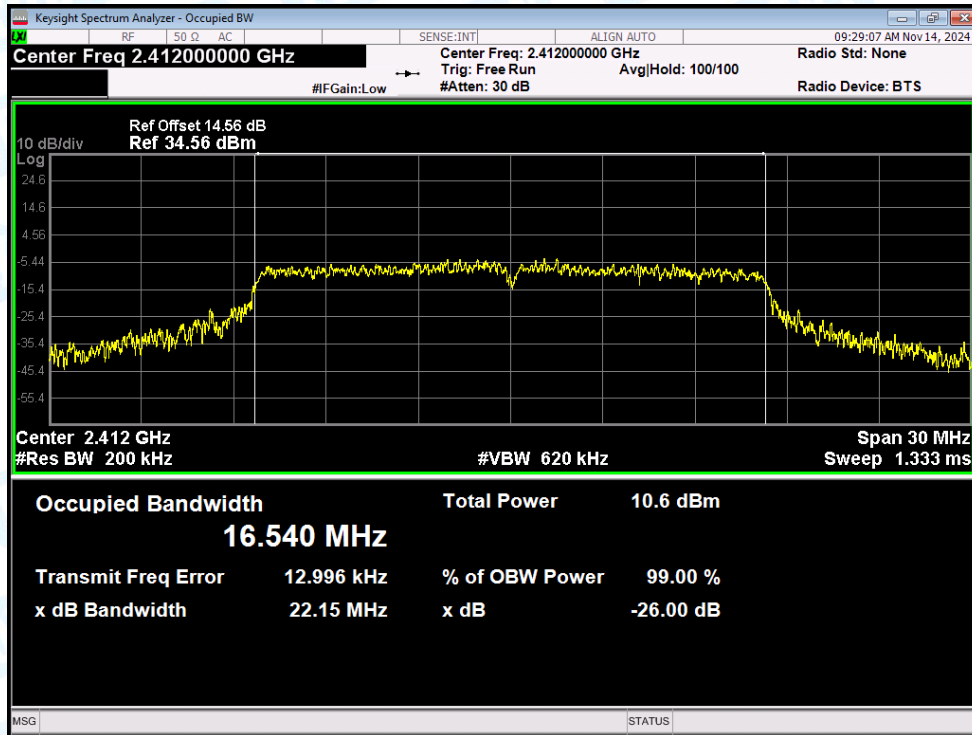
OBW NVNT b 2437MHz Ant1



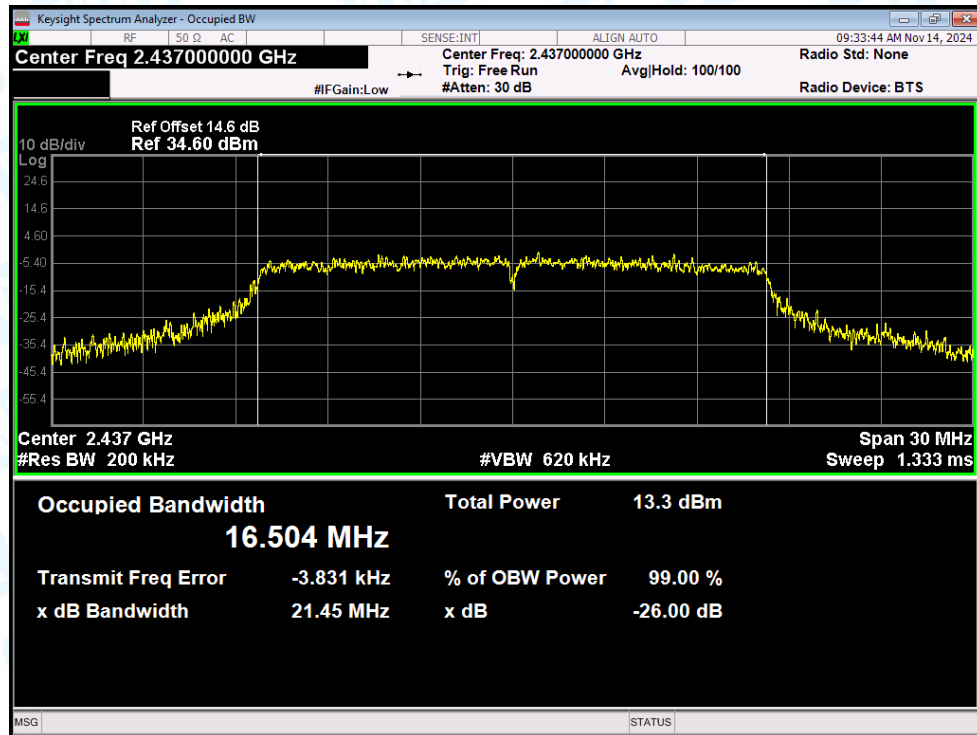
OBW NVNT b 2462MHz Ant1



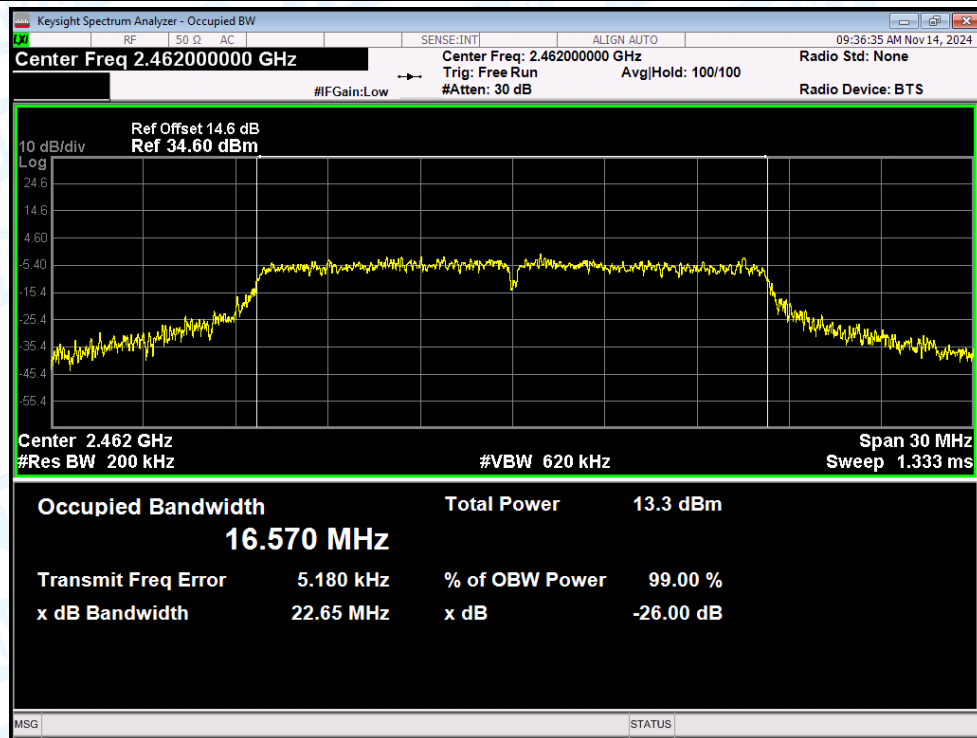
OBW NVNT g 2412MHz Ant1



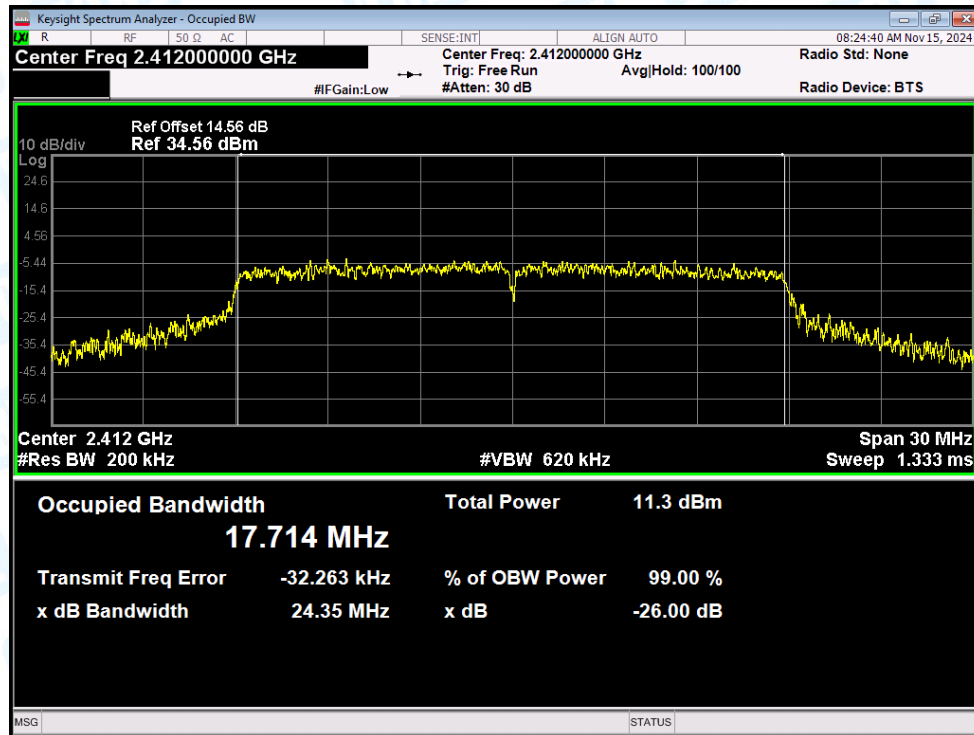
OBW NVNT g 2437MHz Ant1



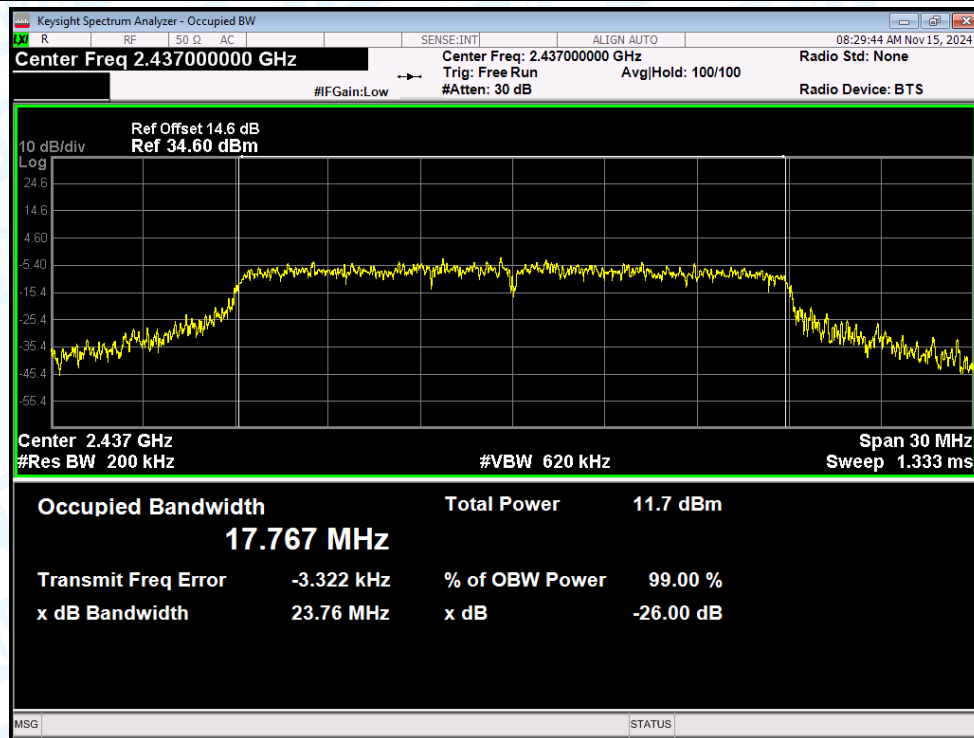
OBW NVNT g 2462MHz Ant1



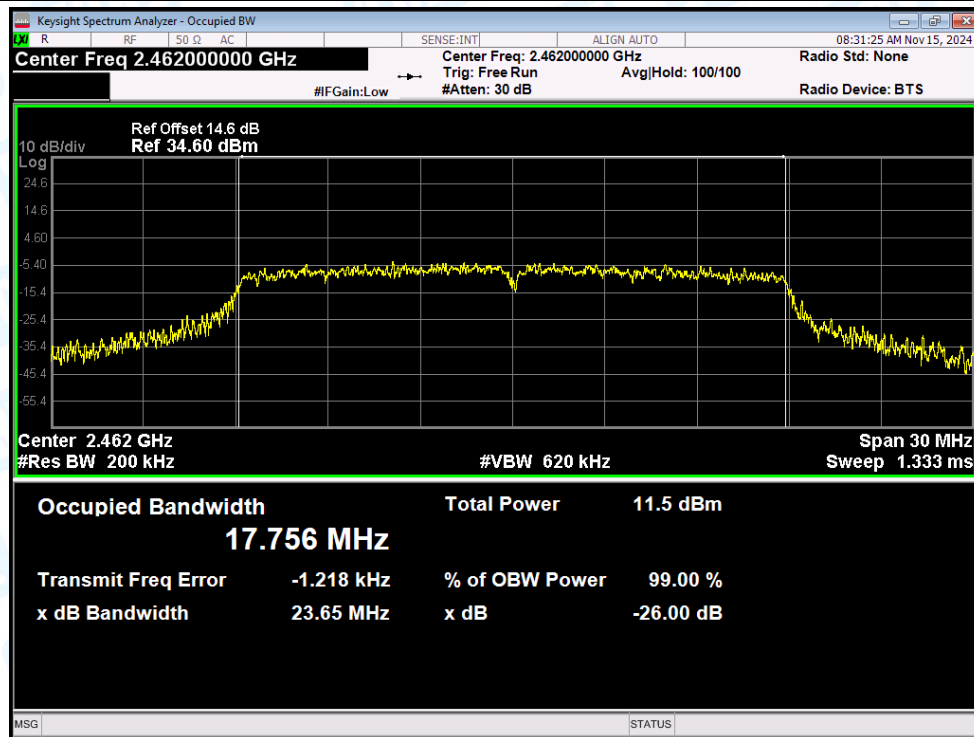
OBW NVNT n(HT20) 2412MHz Ant1



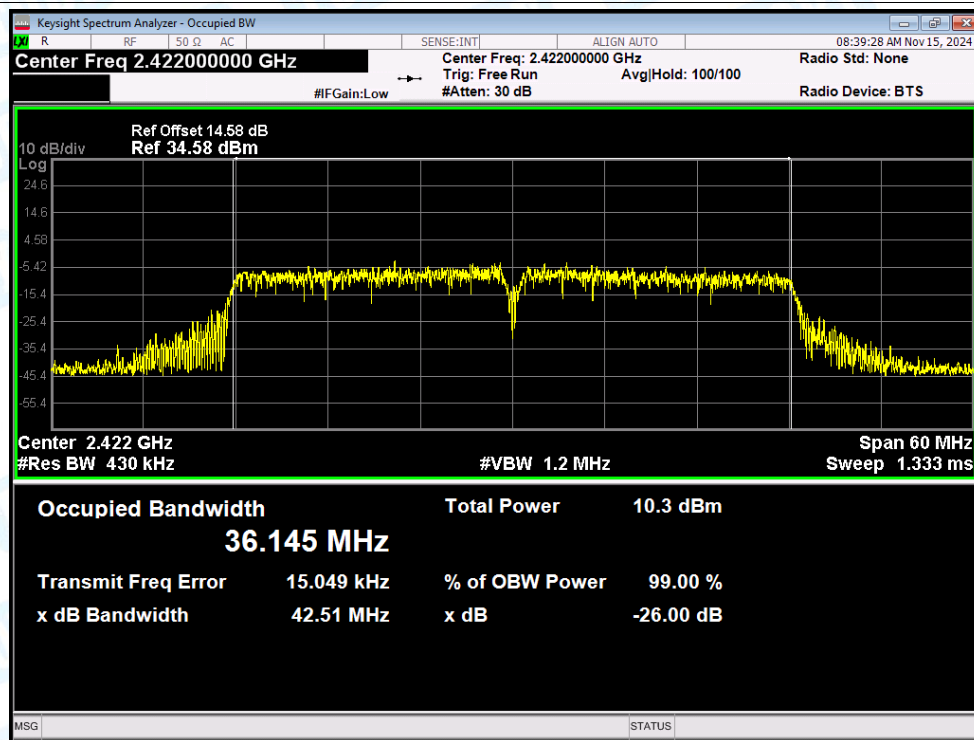
OBW NVNT n(HT20) 2437MHz Ant1



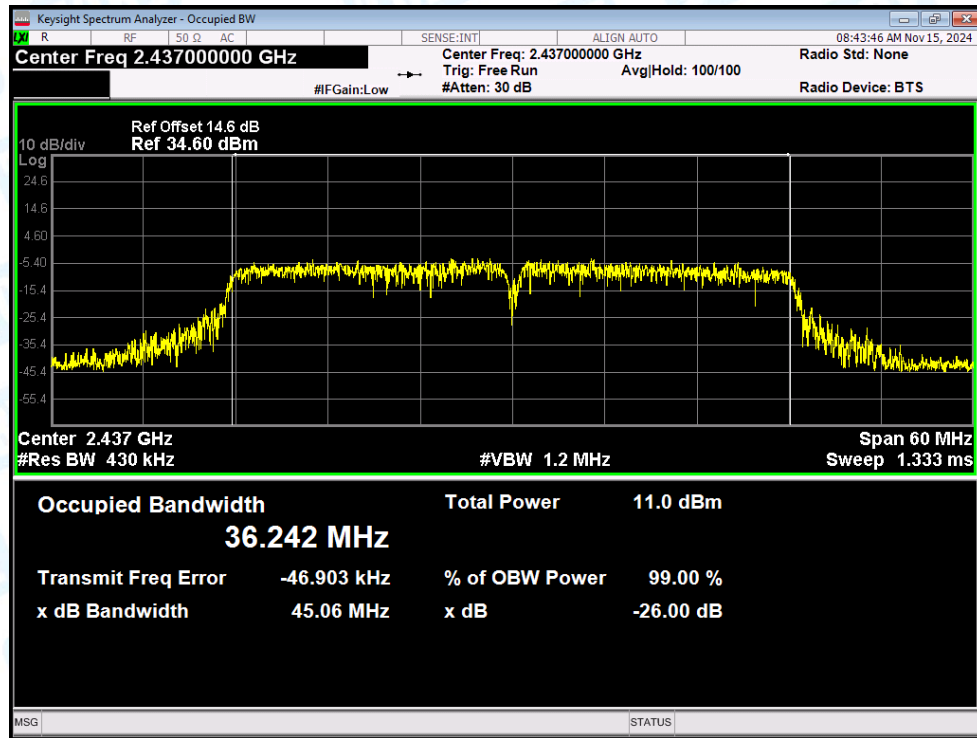
OBW NVNT n(HT20) 2462MHz Ant1



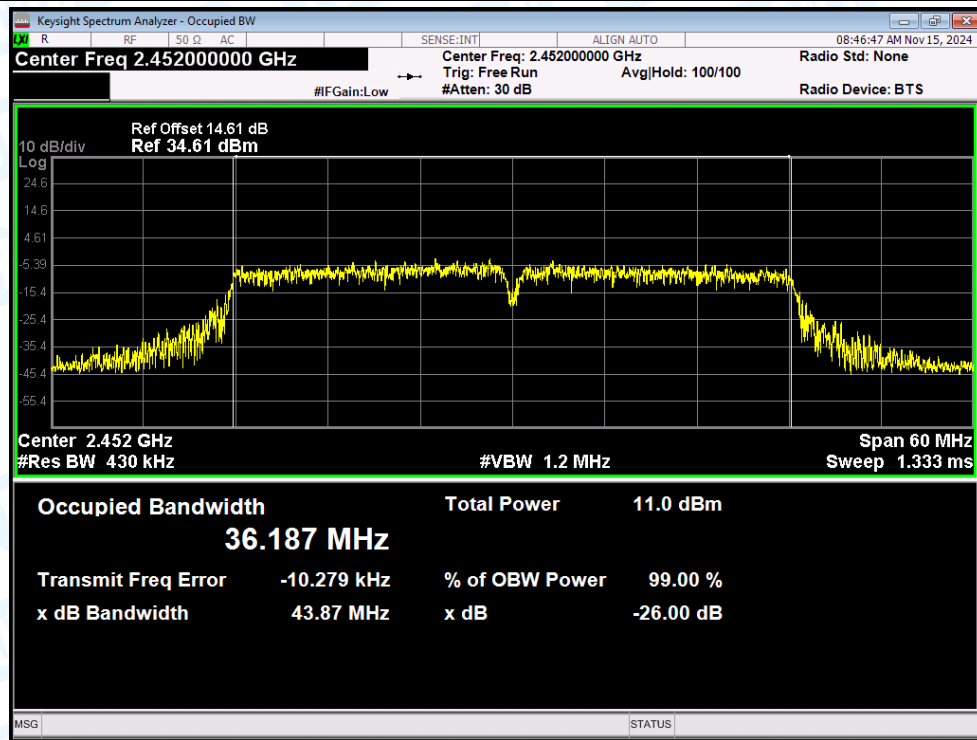
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



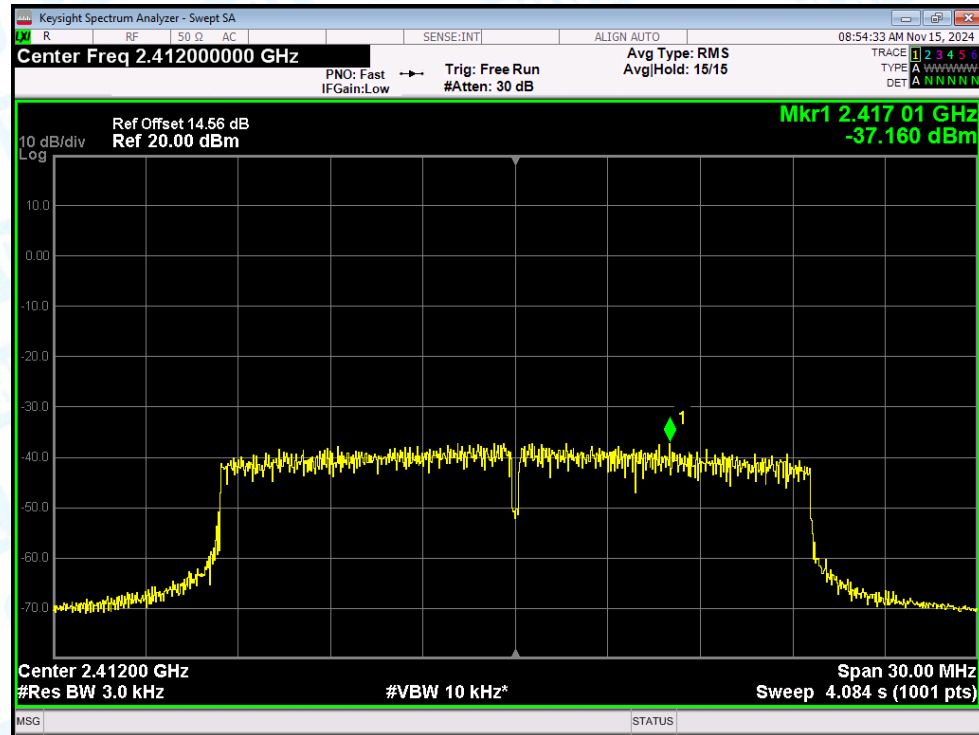
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-37.16	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-36.166	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-36.674	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-41.904	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-41.149	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-40.814	8	Pass
NVNT	b	2412	Ant1	-20.34	8	Pass
NVNT	b	2437	Ant1	-21.153	8	Pass
NVNT	b	2462	Ant1	-22.099	8	Pass
NVNT	g	2412	Ant1	-35.379	8	Pass
NVNT	g	2437	Ant1	-33.459	8	Pass
NVNT	g	2462	Ant1	-34.136	8	Pass
NVNT	n(HT20)	2412	Ant1	-34.565	8	Pass
NVNT	n(HT20)	2437	Ant1	-33.01	8	Pass
NVNT	n(HT20)	2462	Ant1	-33.516	8	Pass
NVNT	n(HT40)	2422	Ant1	-41.018	8	Pass
NVNT	n(HT40)	2437	Ant1	-40.289	8	Pass
NVNT	n(HT40)	2452	Ant1	-40.618	8	Pass

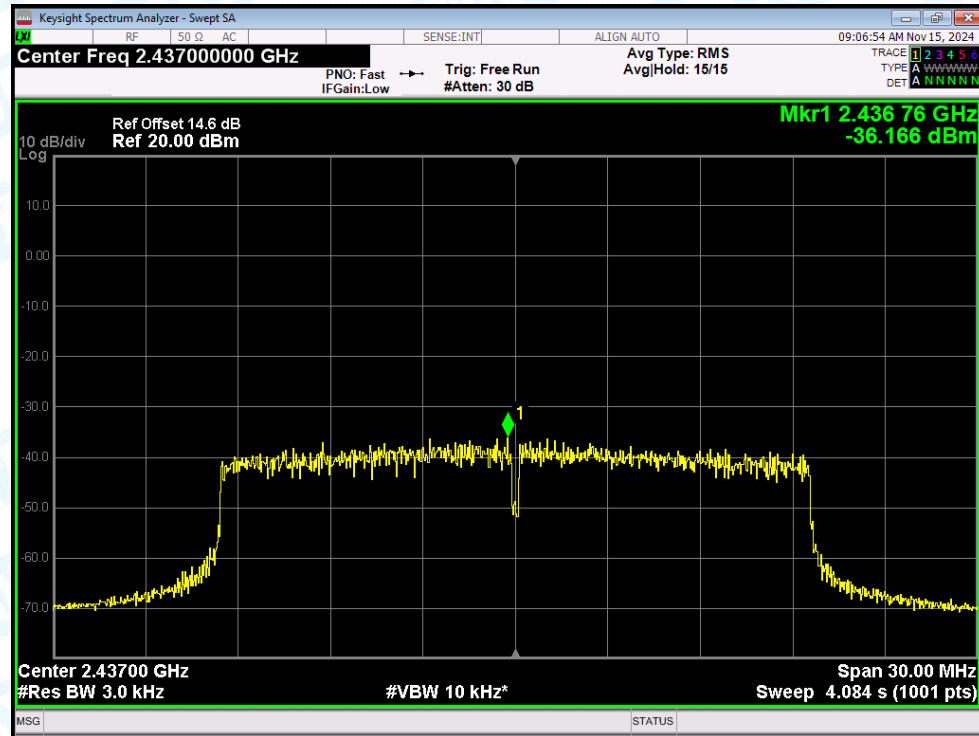
Note: The Duty Cycle Factor is compensated in the graph.

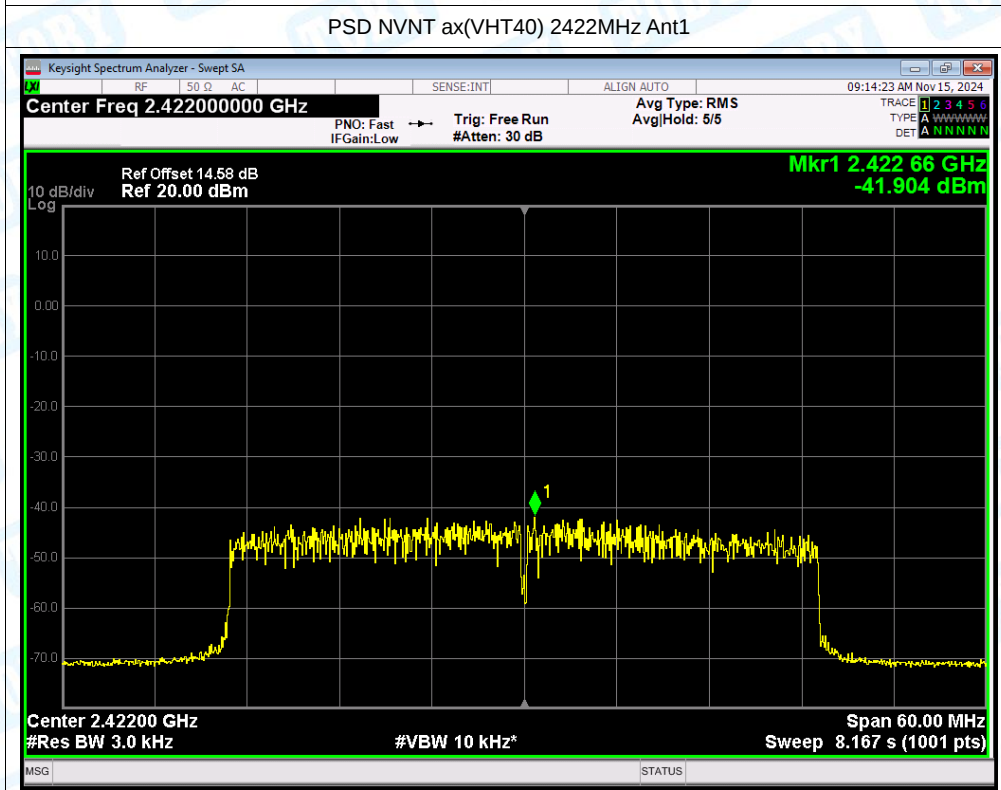
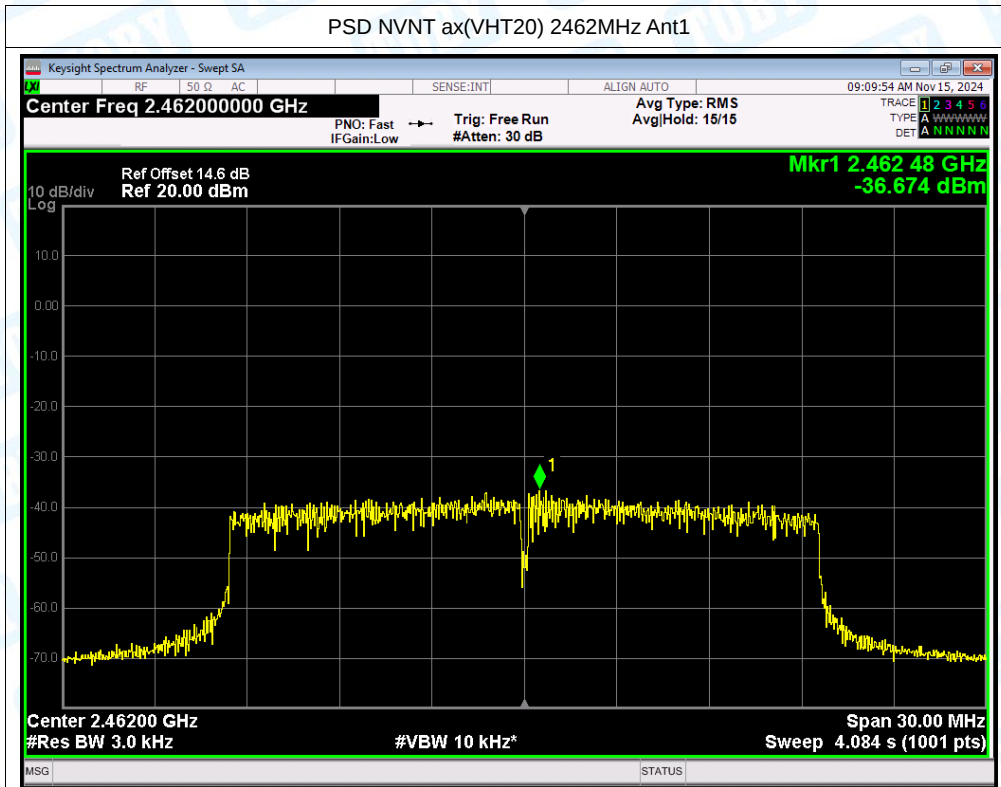
Test Graphs

PSD NVNT ax(VHT20) 2412MHz Ant1

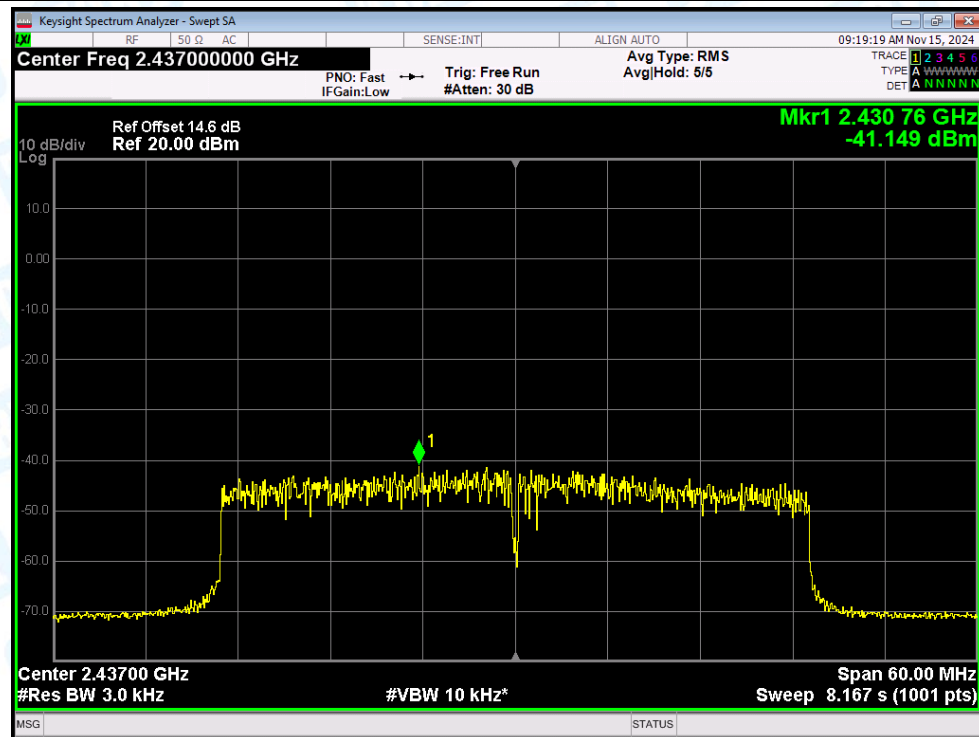


PSD NVNT ax(VHT20) 2437MHz Ant1

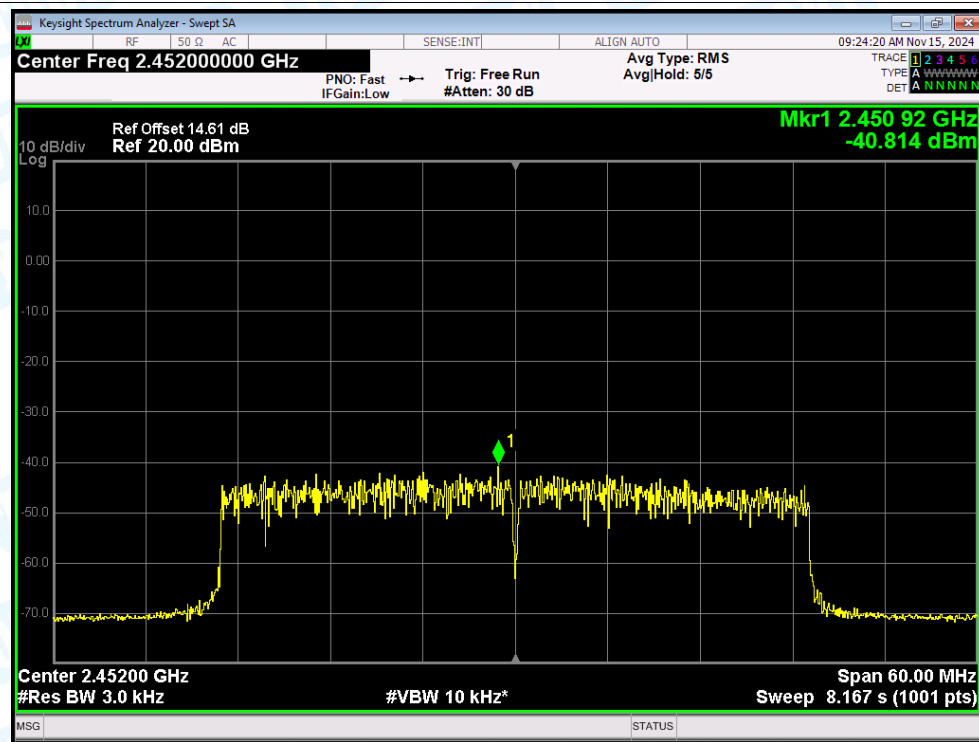




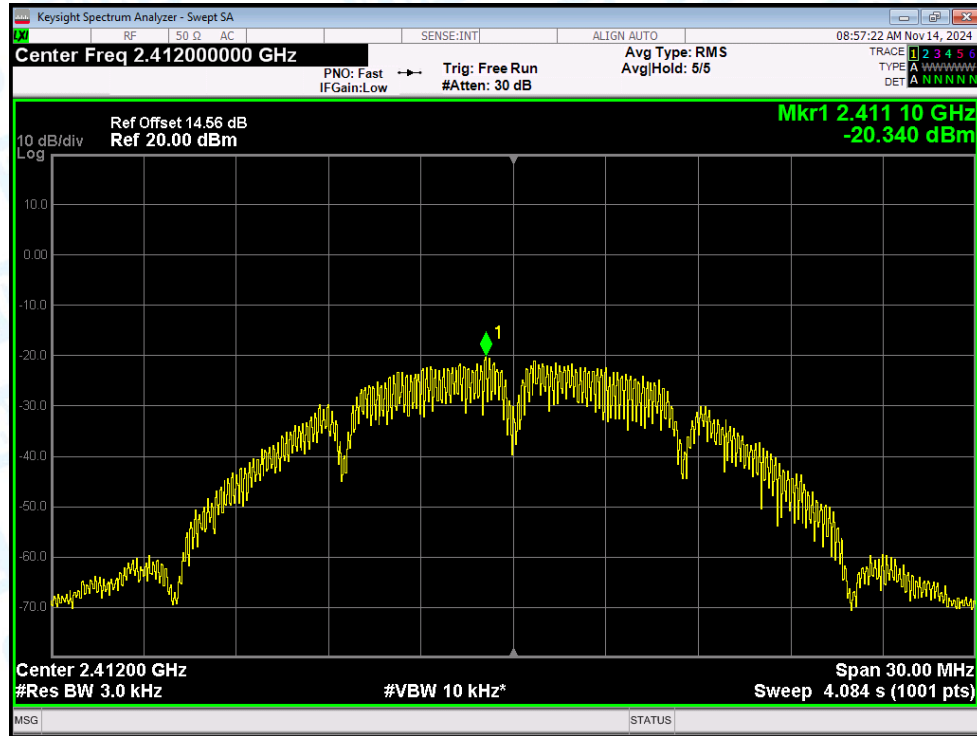
PSD NVNT ax(VHT40) 2437MHz Ant1



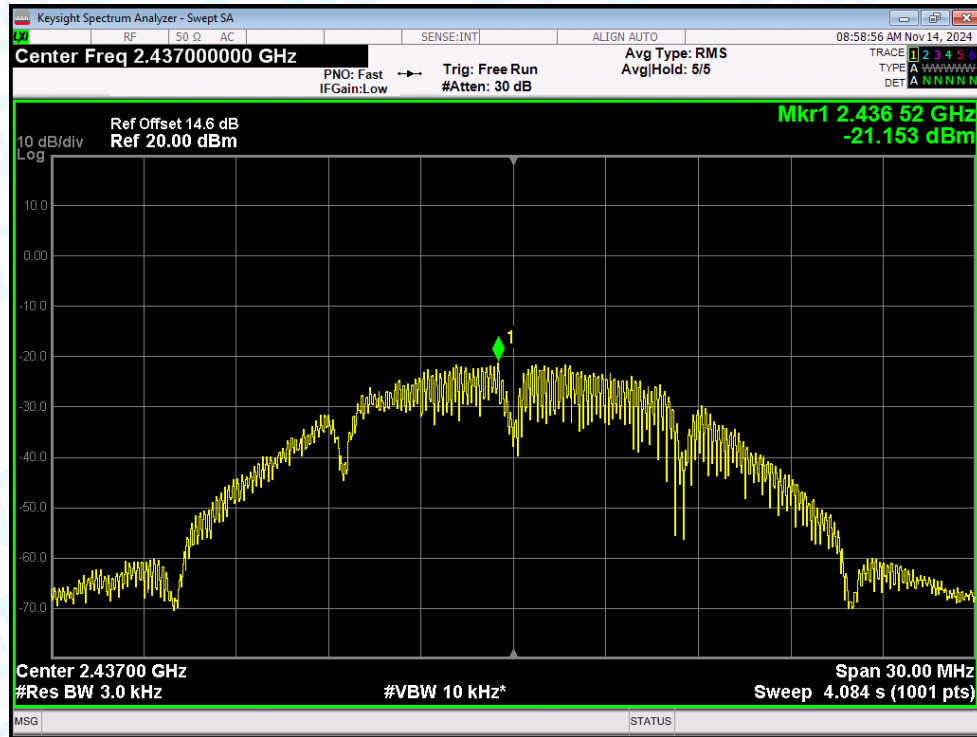
PSD NVNT ax(VHT40) 2452MHz Ant1



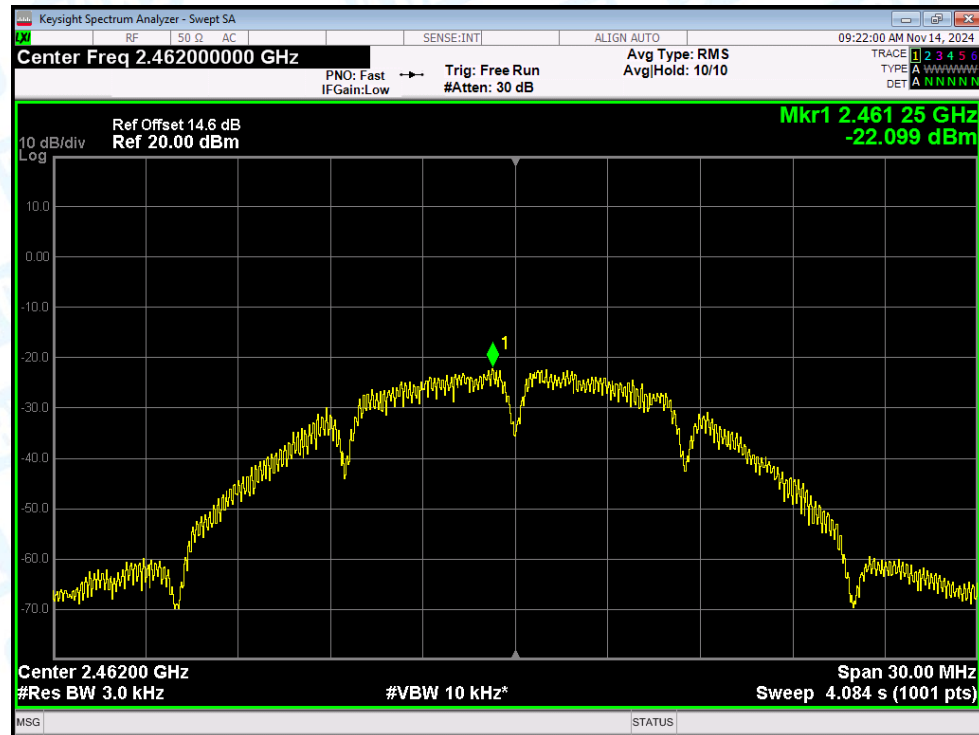
PSD NVNT b 2412MHz Ant1



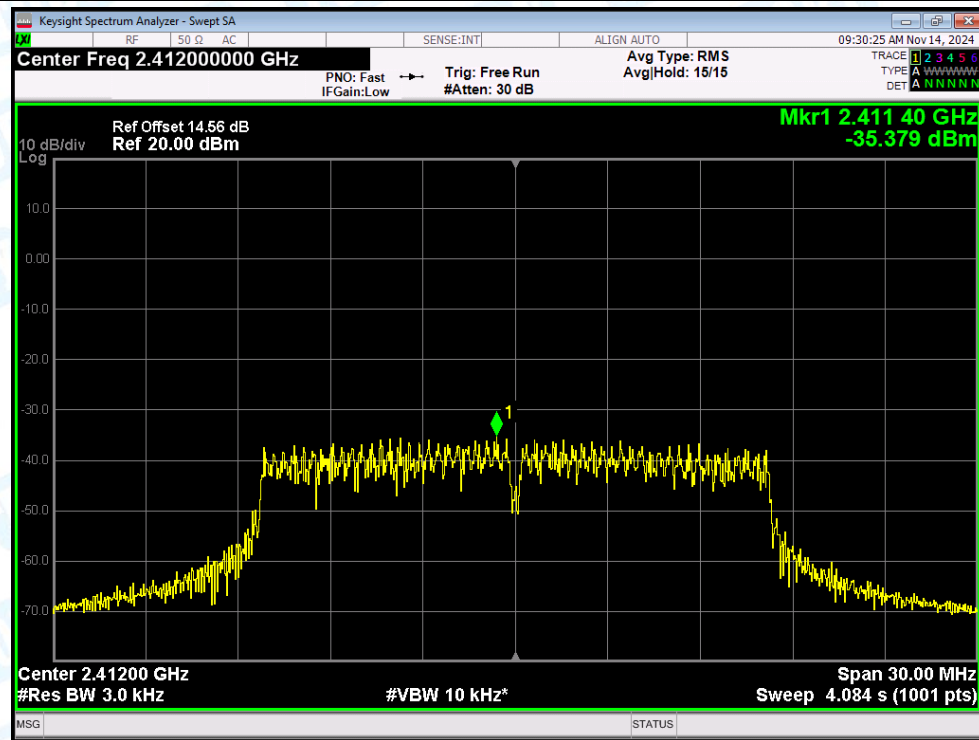
PSD NVNT b 2437MHz Ant1



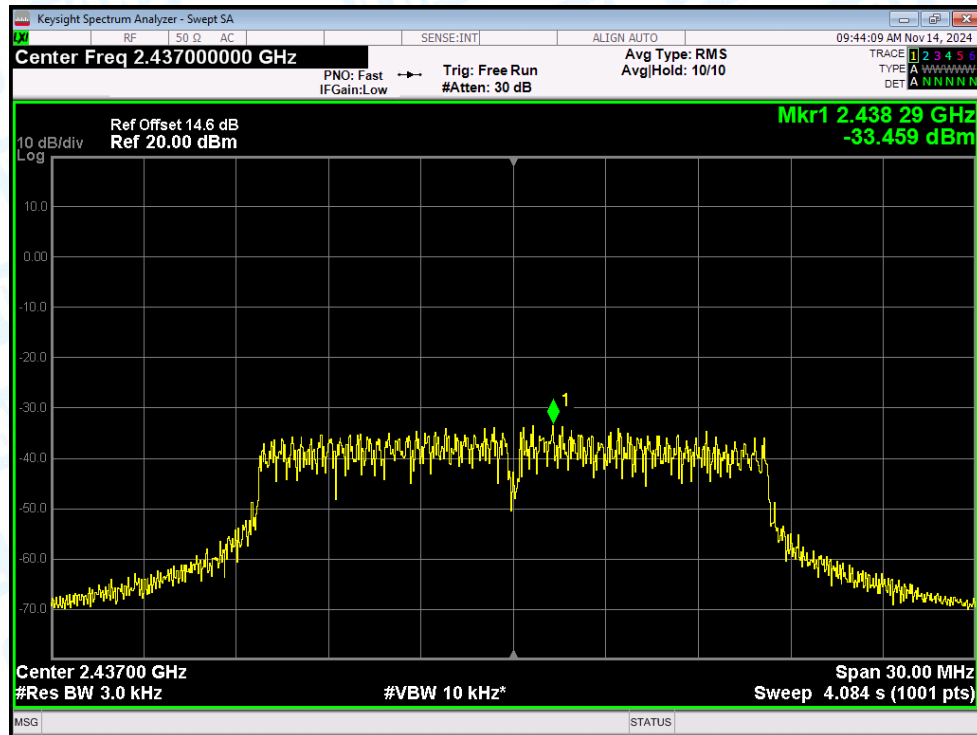
PSD NVNT b 2462MHz Ant1



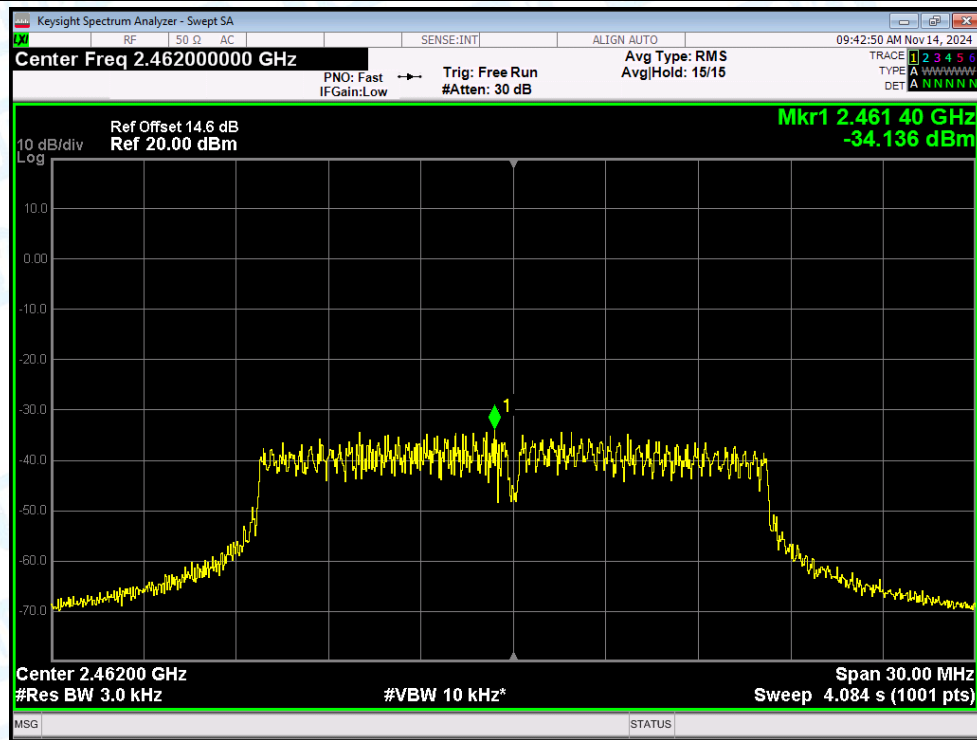
PSD NVNT g 2412MHz Ant1



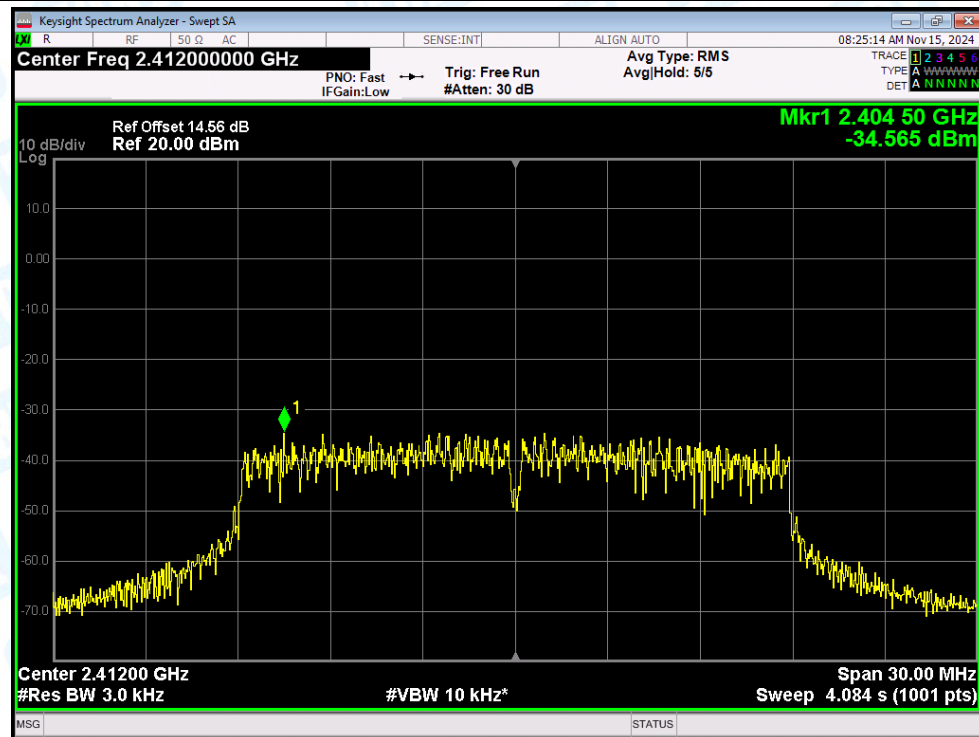
PSD NVNT g 2437MHz Ant1



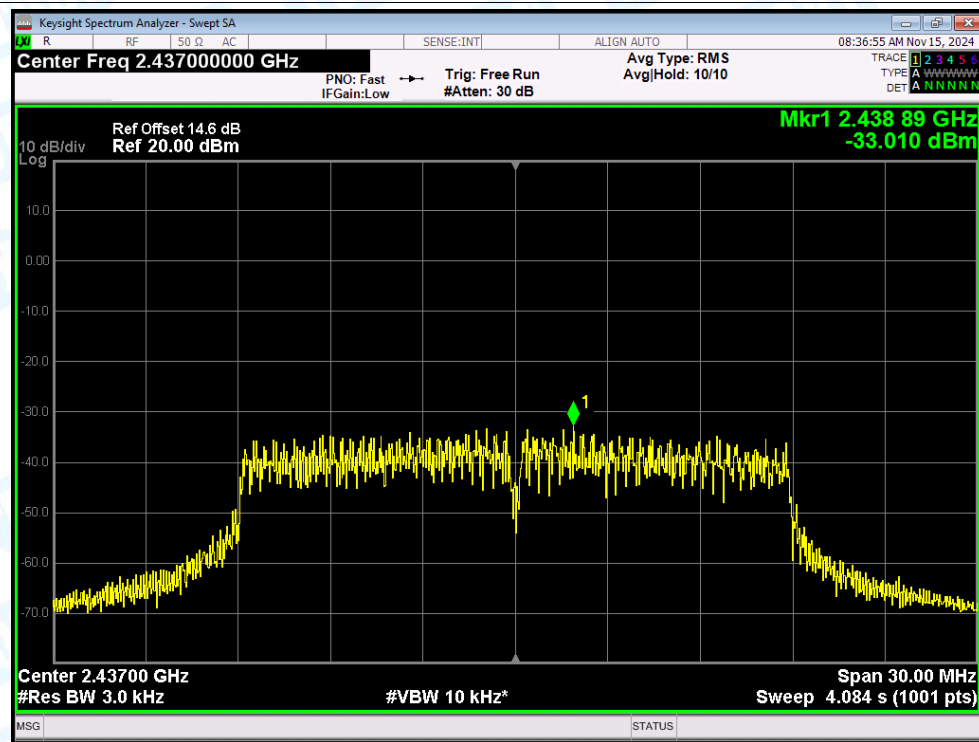
PSD NVNT g 2462MHz Ant1



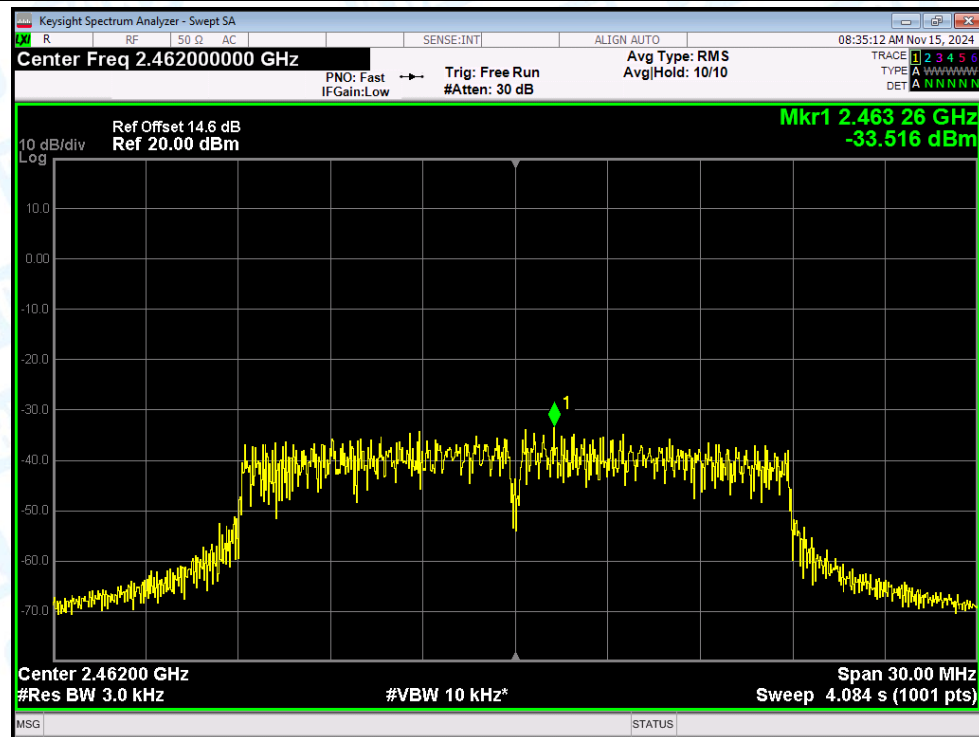
PSD NVNT n(HT20) 2412MHz Ant1



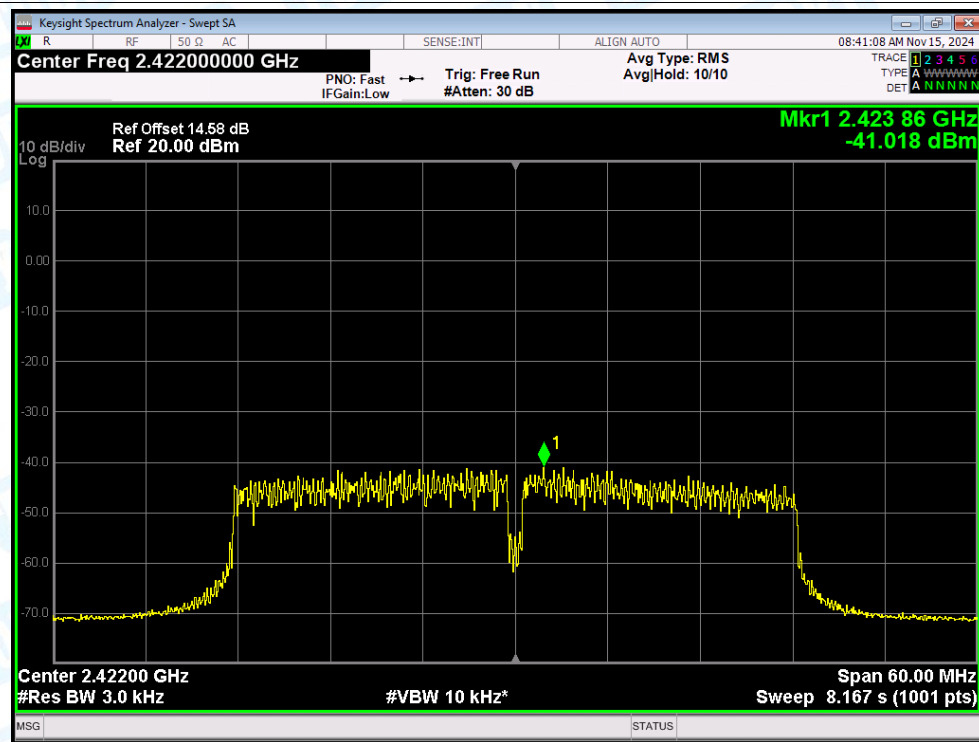
PSD NVNT n(HT20) 2437MHz Ant1



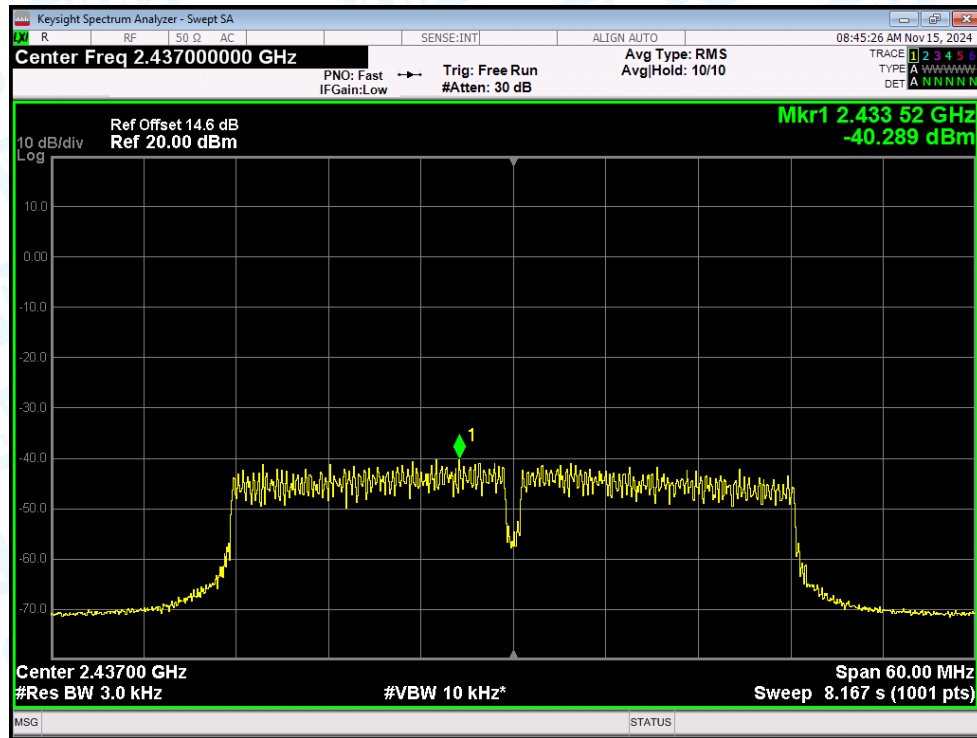
PSD NVNT n(HT20) 2462MHz Ant1



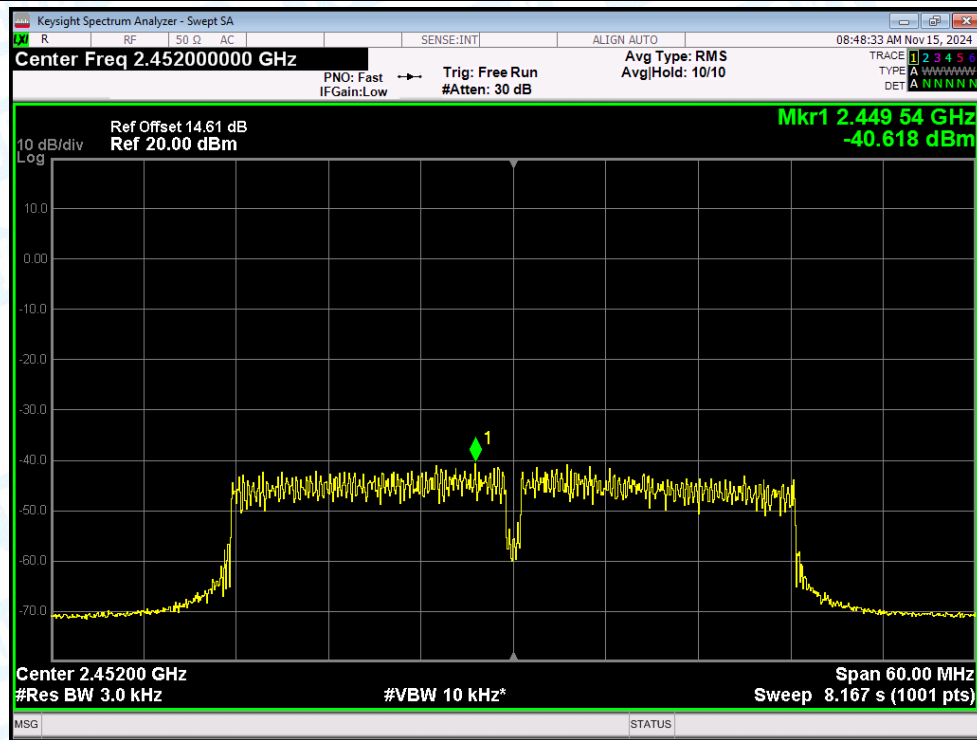
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

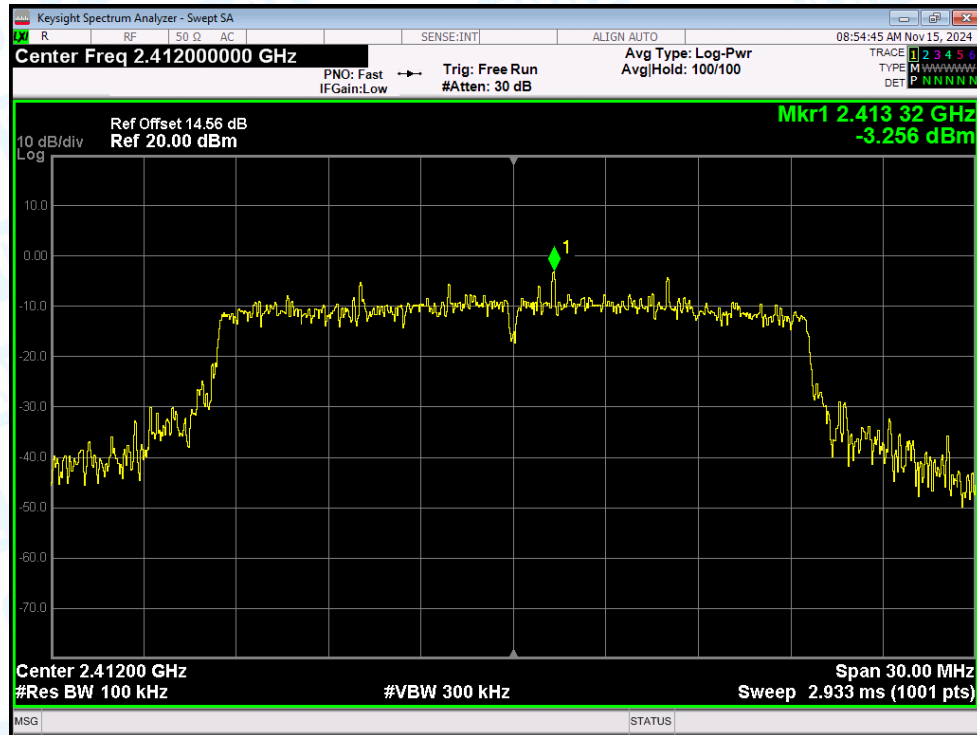


6. Band Edge

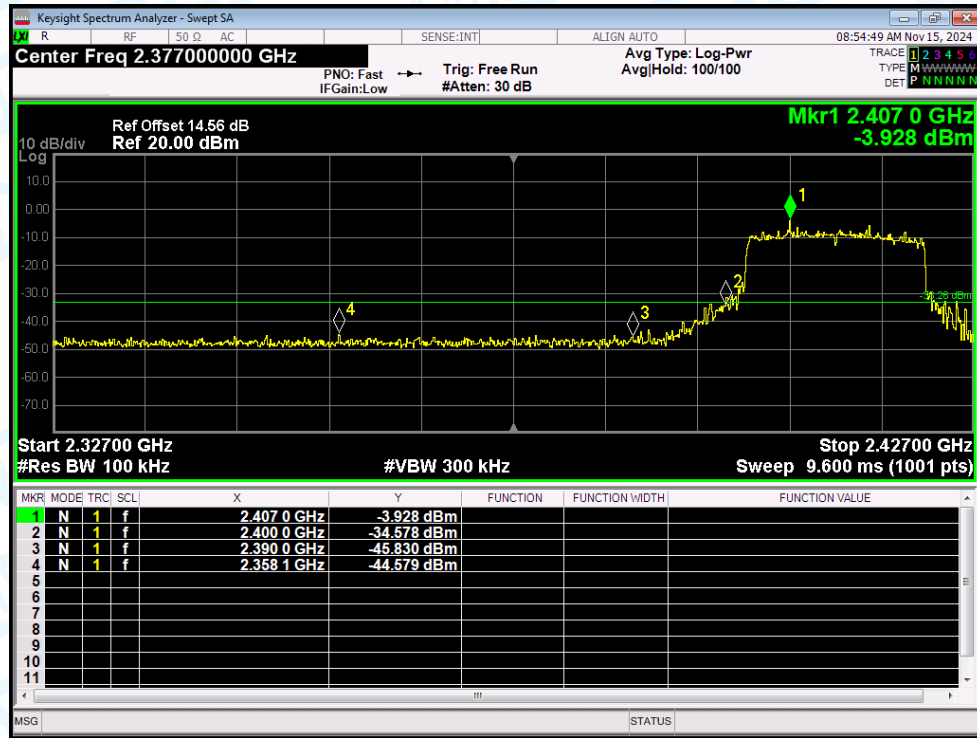
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-41.32	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-40.82	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-37.56	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-36.29	-30	Pass
NVNT	b	2412	Ant1	-47.45	-30	Pass
NVNT	b	2462	Ant1	-46.18	-30	Pass
NVNT	g	2412	Ant1	-37.7	-30	Pass
NVNT	g	2462	Ant1	-39.78	-30	Pass
NVNT	n(HT20)	2412	Ant1	-39.38	-30	Pass
NVNT	n(HT20)	2462	Ant1	-39.71	-30	Pass
NVNT	n(HT40)	2422	Ant1	-38.75	-30	Pass
NVNT	n(HT40)	2452	Ant1	-36.92	-30	Pass

Test Graphs

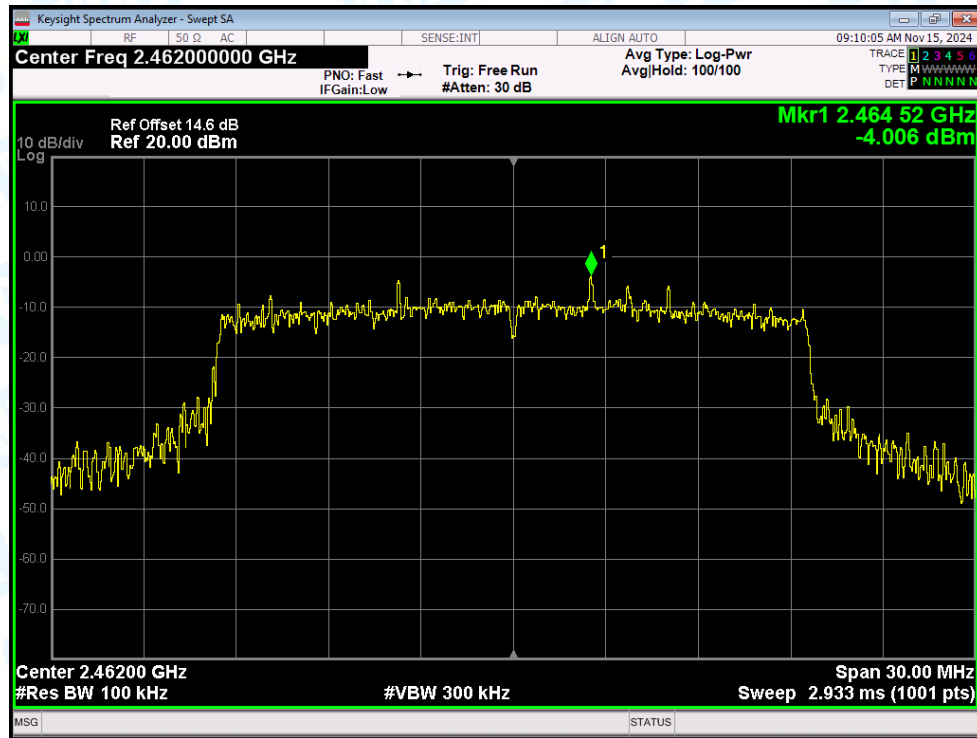
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref



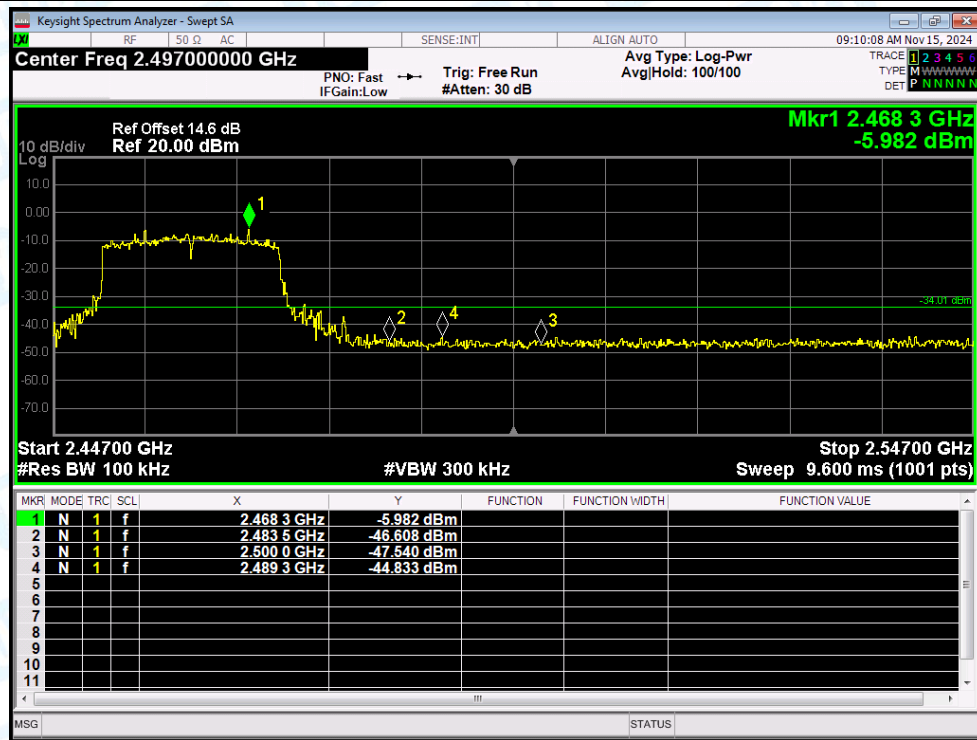
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission



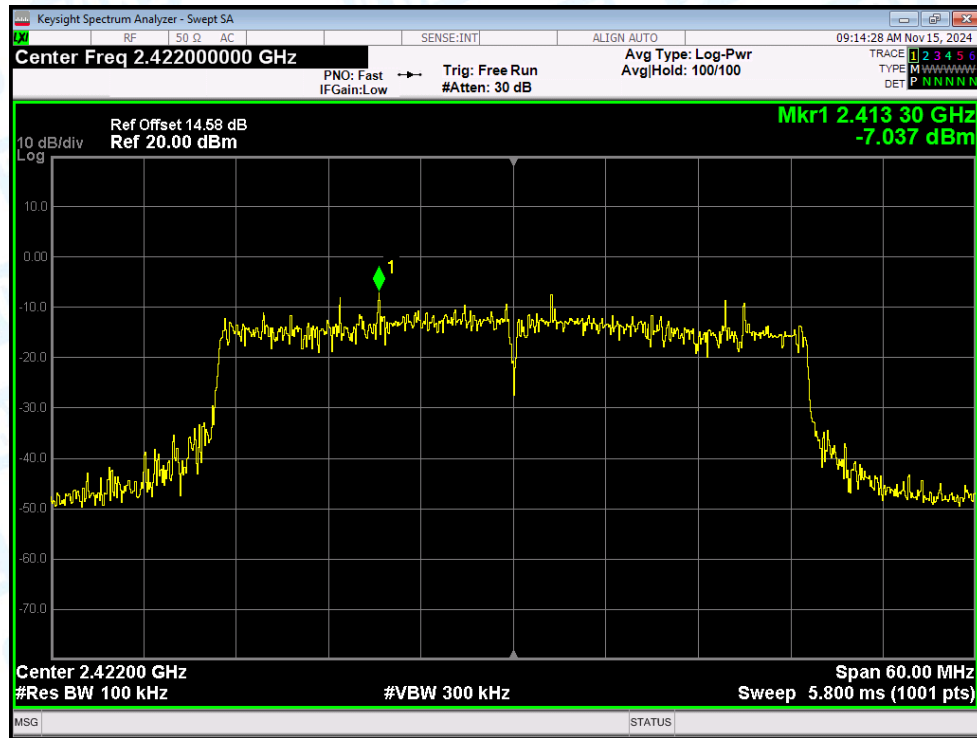
Band Edge NVNT ax(VHT20) 2462MHz Ant1 Ref



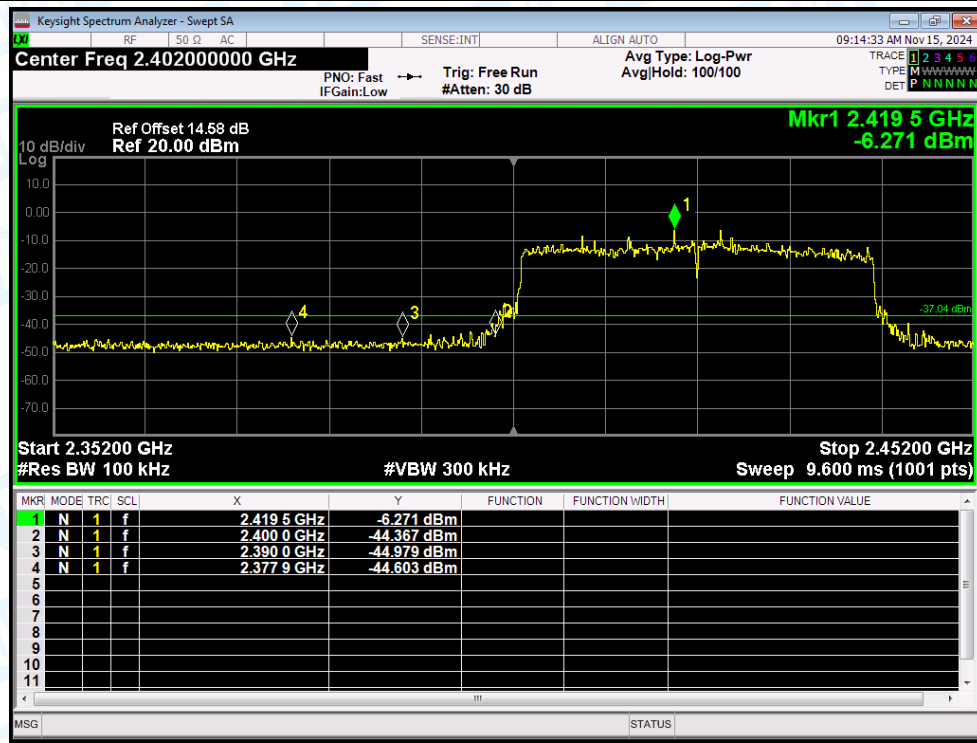
Band Edge NVNT ax(VHT20) 2462MHz Ant1 Emission



Band Edge NVNT ax(VHT40) 2422MHz Ant1 Ref



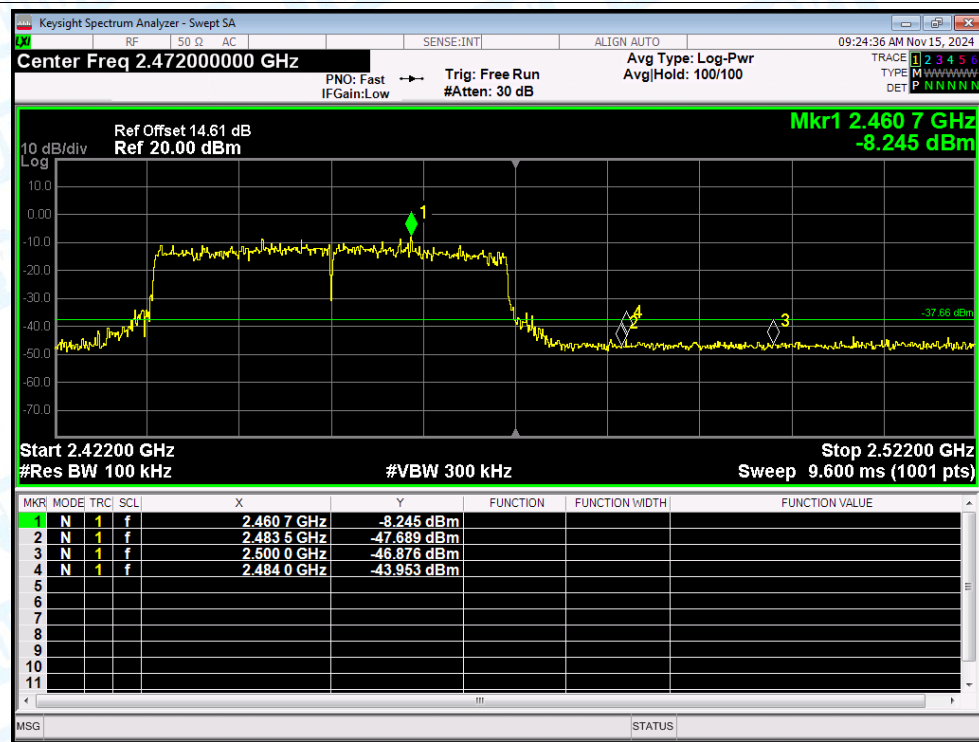
Band Edge NVNT ax(VHT40) 2422MHz Ant1 Emission



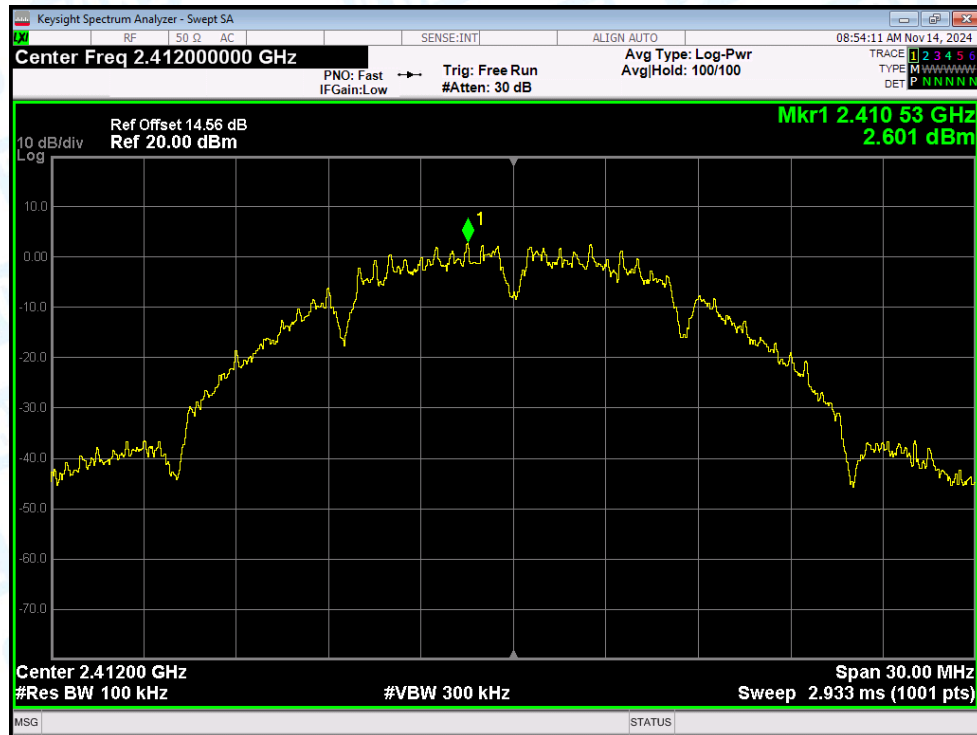
Band Edge NVNT ax(VHT40) 2452MHz Ant1 Ref



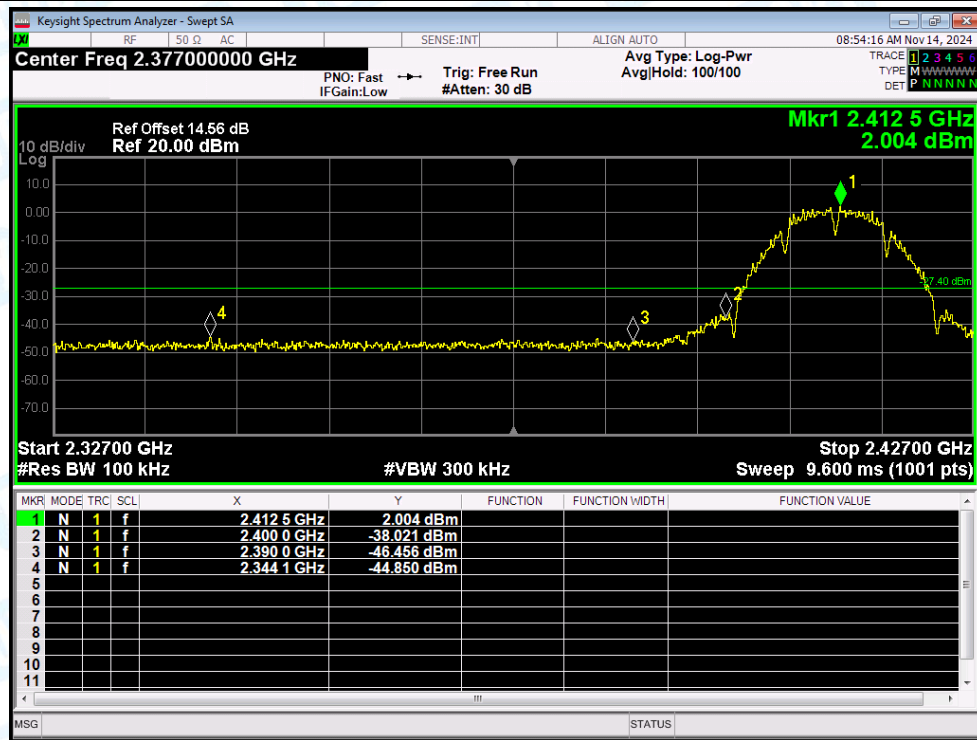
Band Edge NVNT ax(VHT40) 2452MHz Ant1 Emission



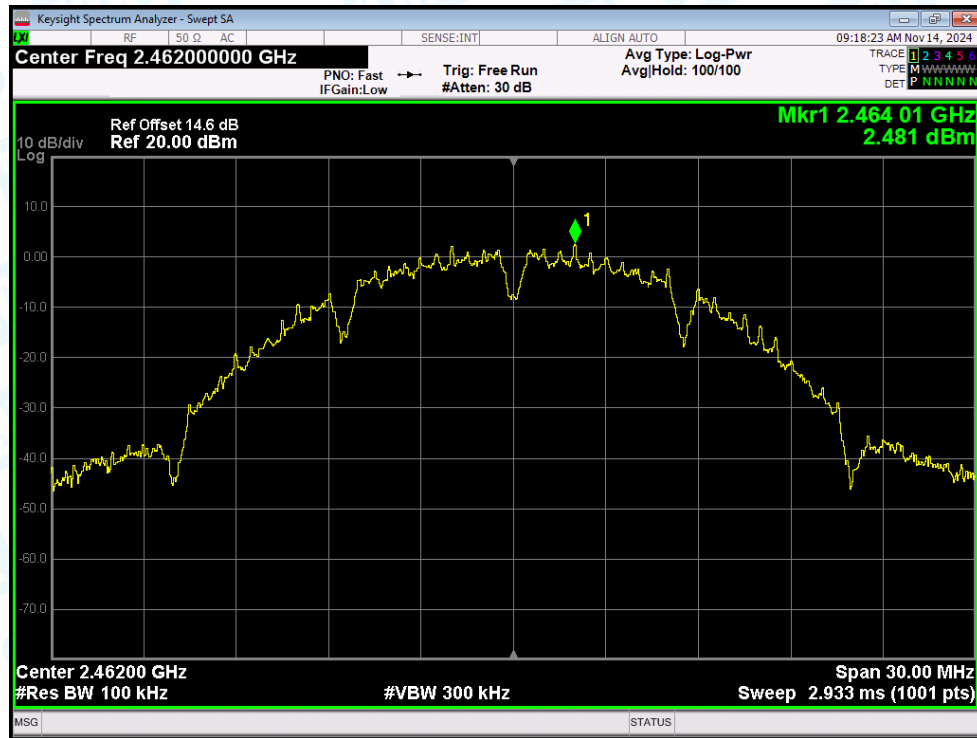
Band Edge NVNT b 2412MHz Ant1 Ref



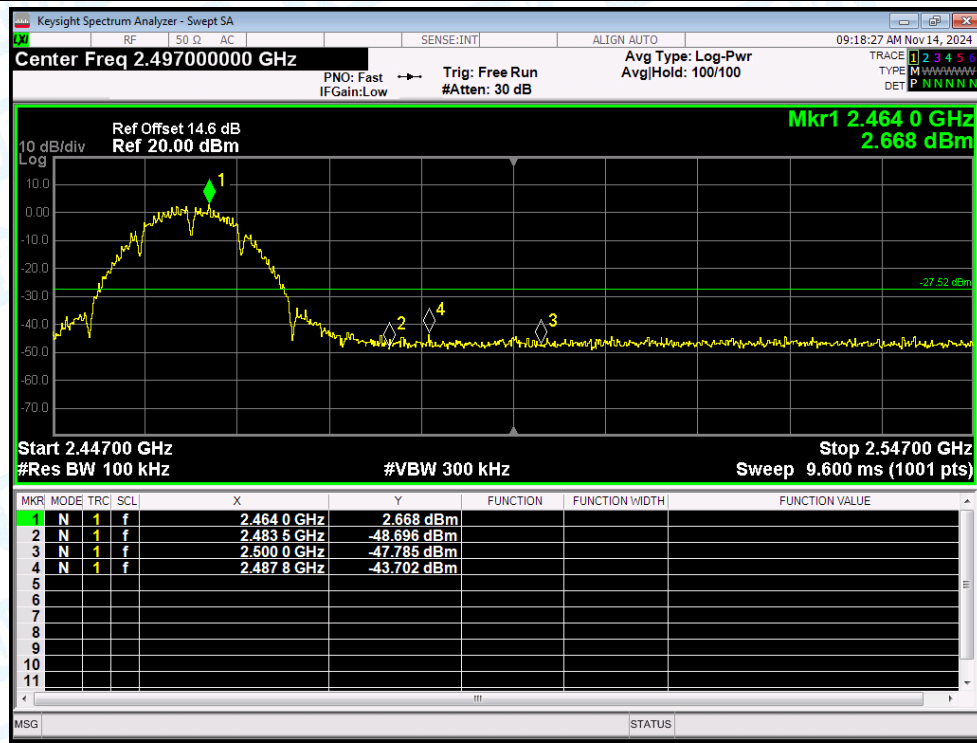
Band Edge NVNT b 2412MHz Ant1 Emission



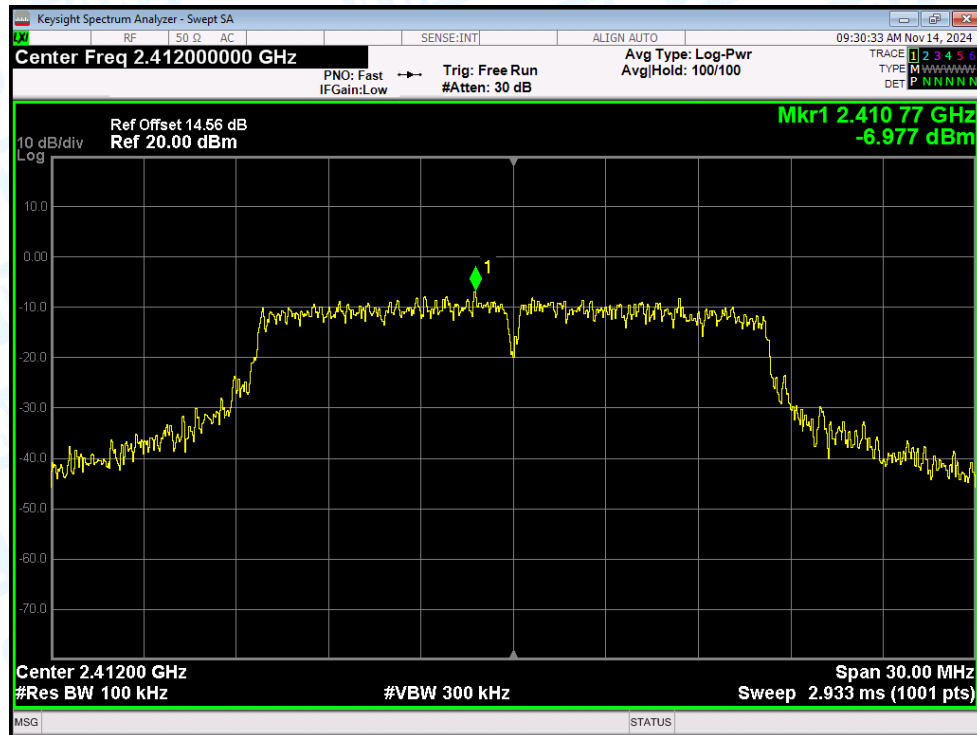
Band Edge NVNT b 2462MHz Ant1 Ref



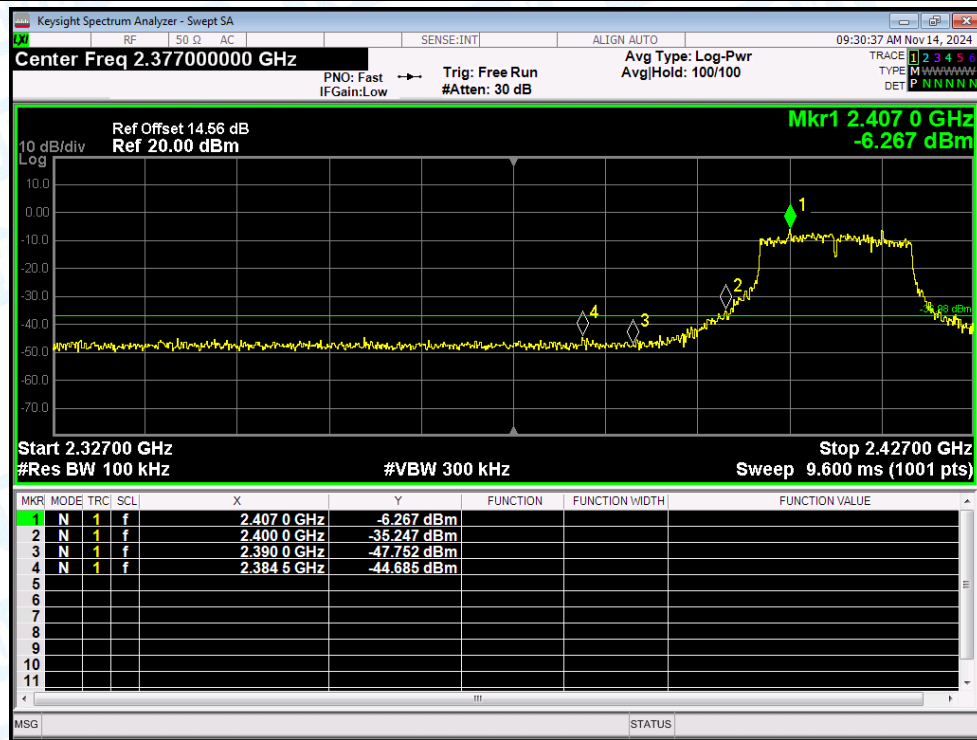
Band Edge NVNT b 2462MHz Ant1 Emission



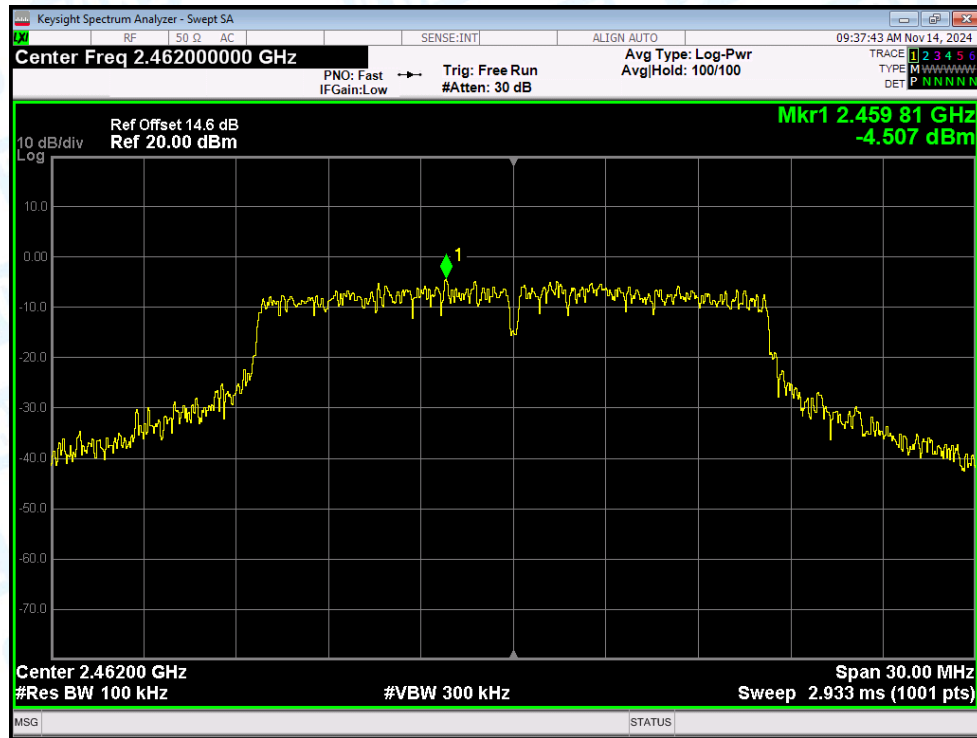
Band Edge NVNT g 2412MHz Ant1 Ref



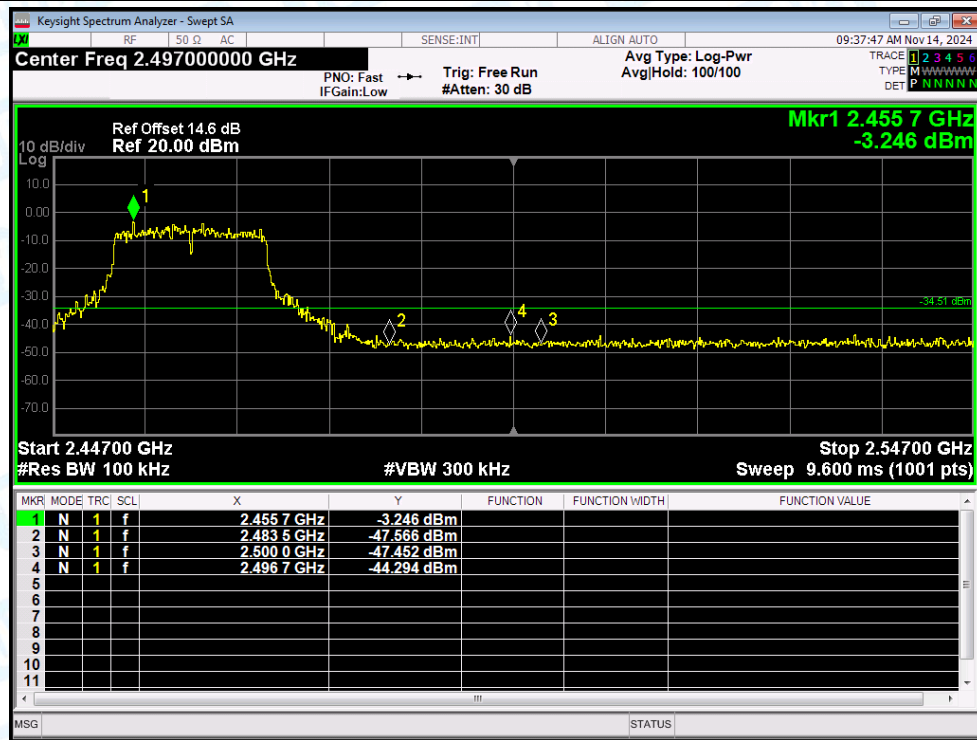
Band Edge NVNT g 2412MHz Ant1 Emission



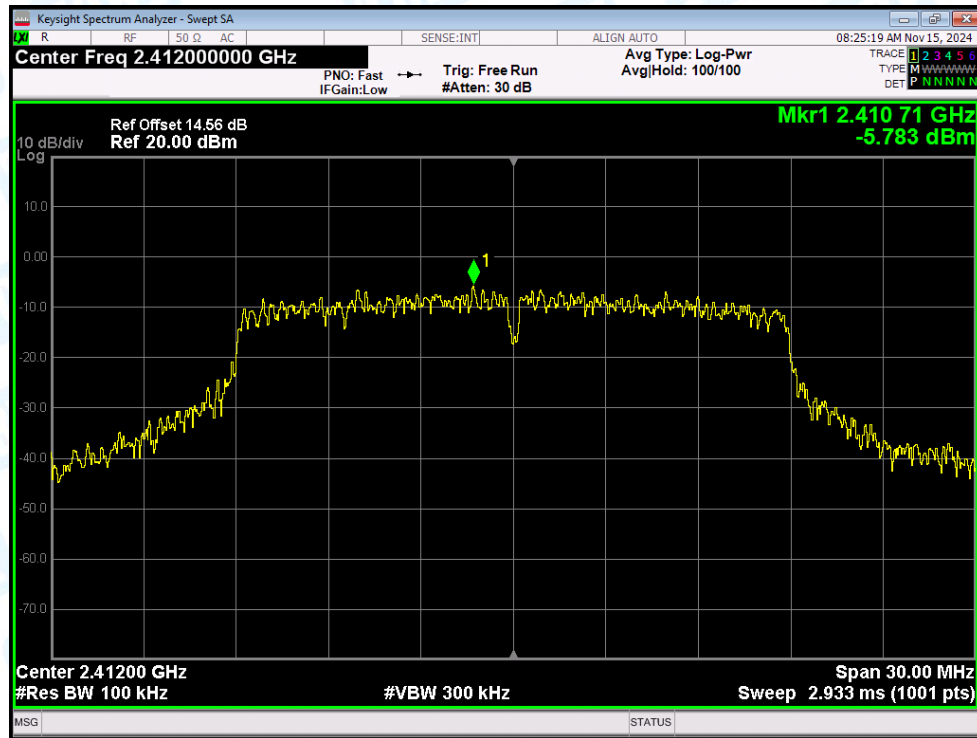
Band Edge NVNT g 2462MHz Ant1 Ref



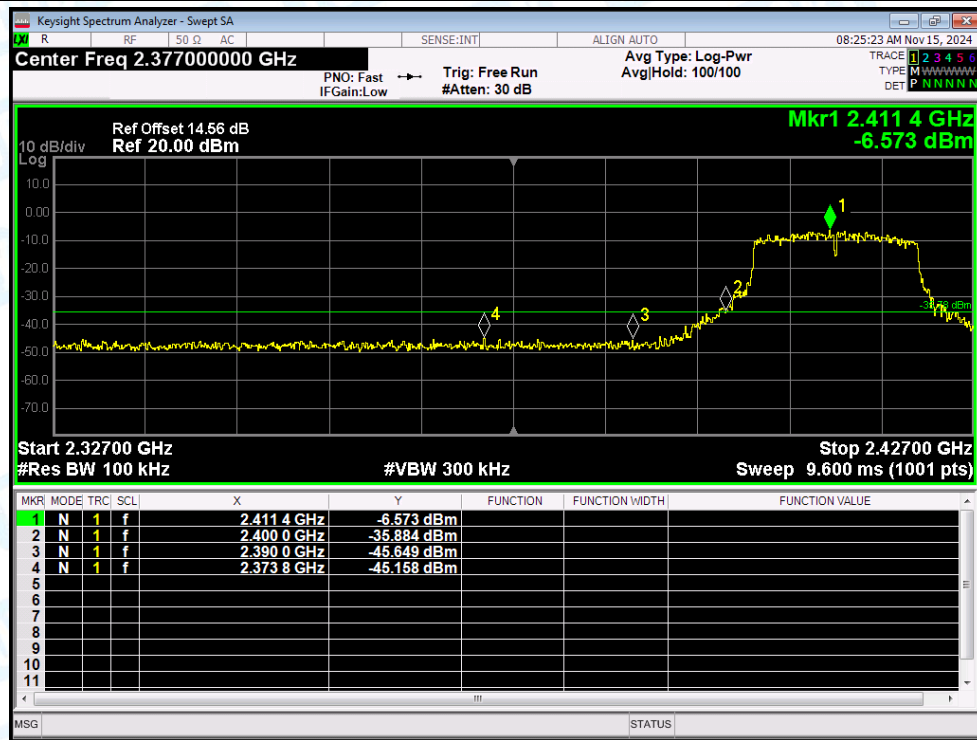
Band Edge NVNT g 2462MHz Ant1 Emission



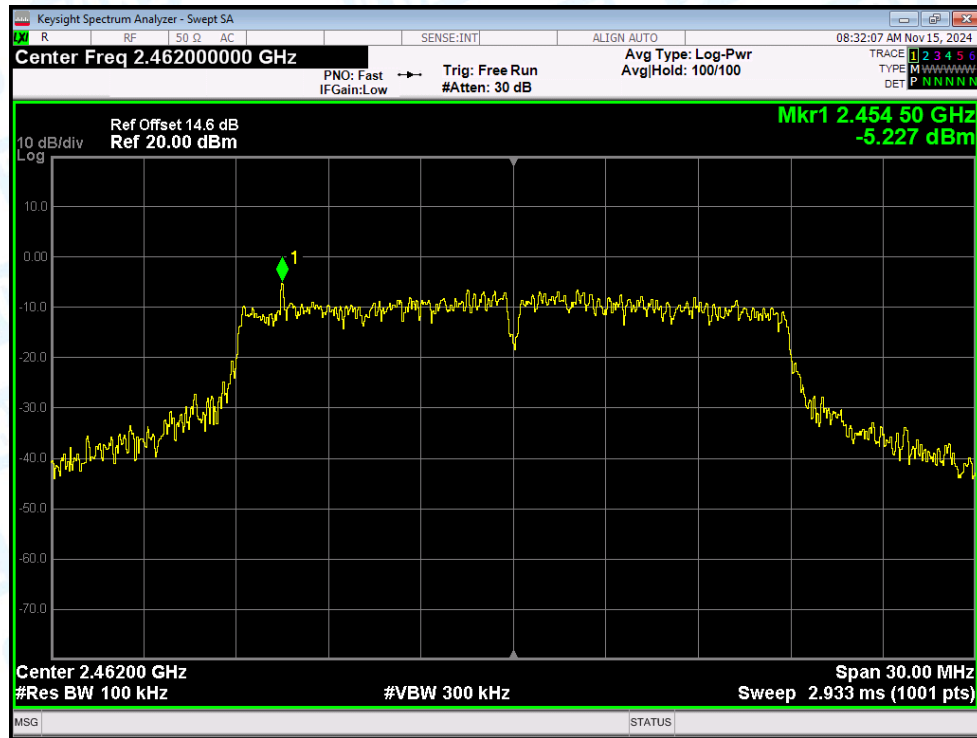
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



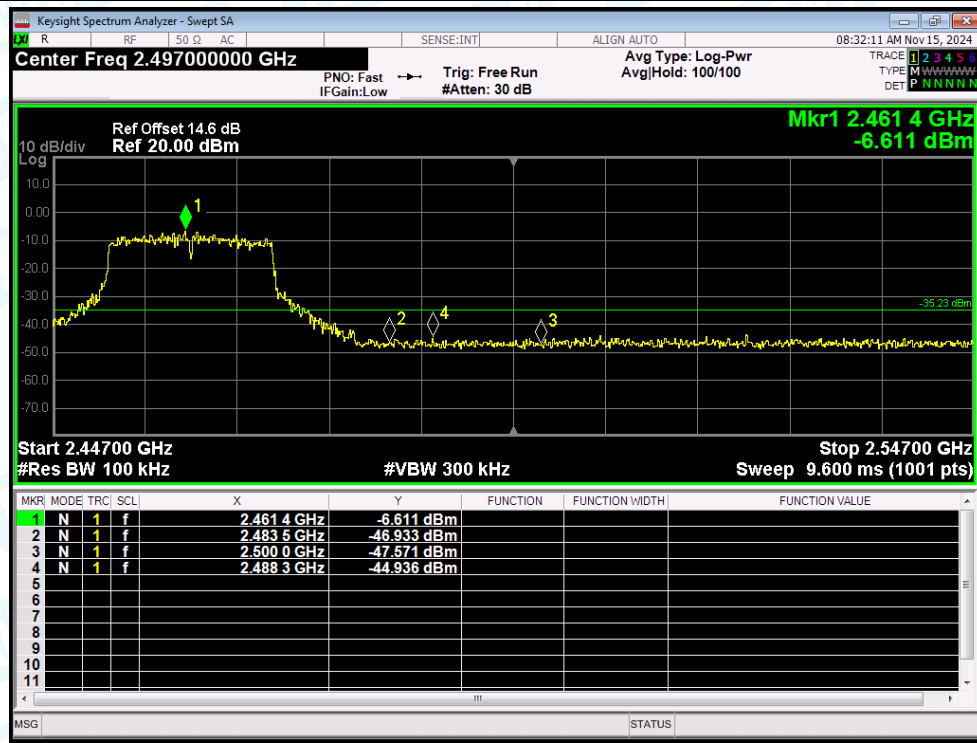
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



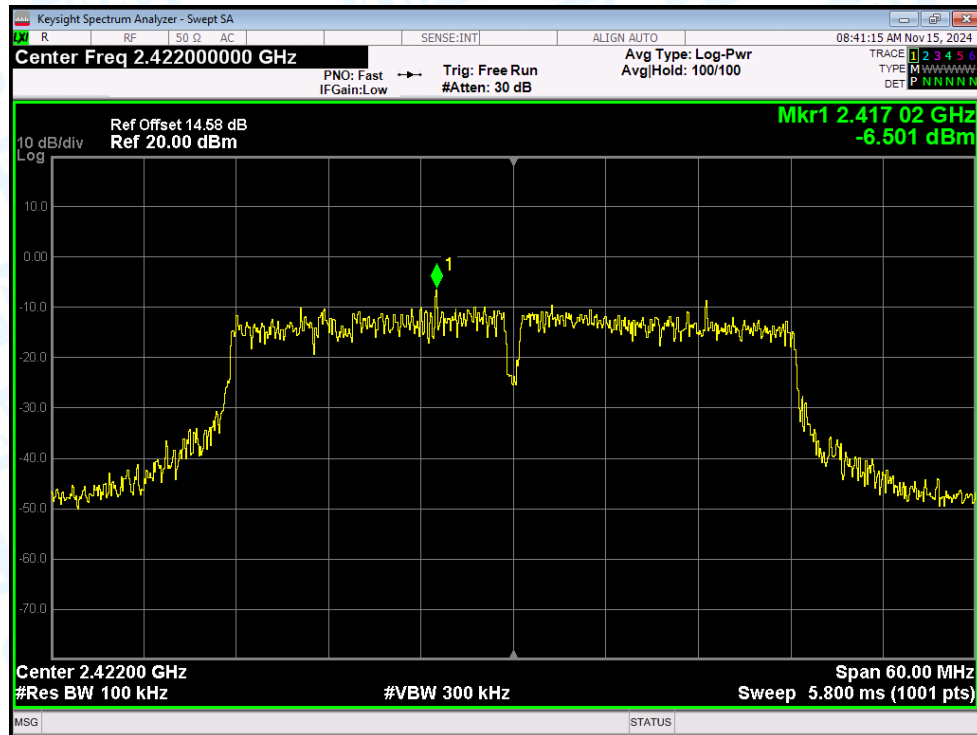
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



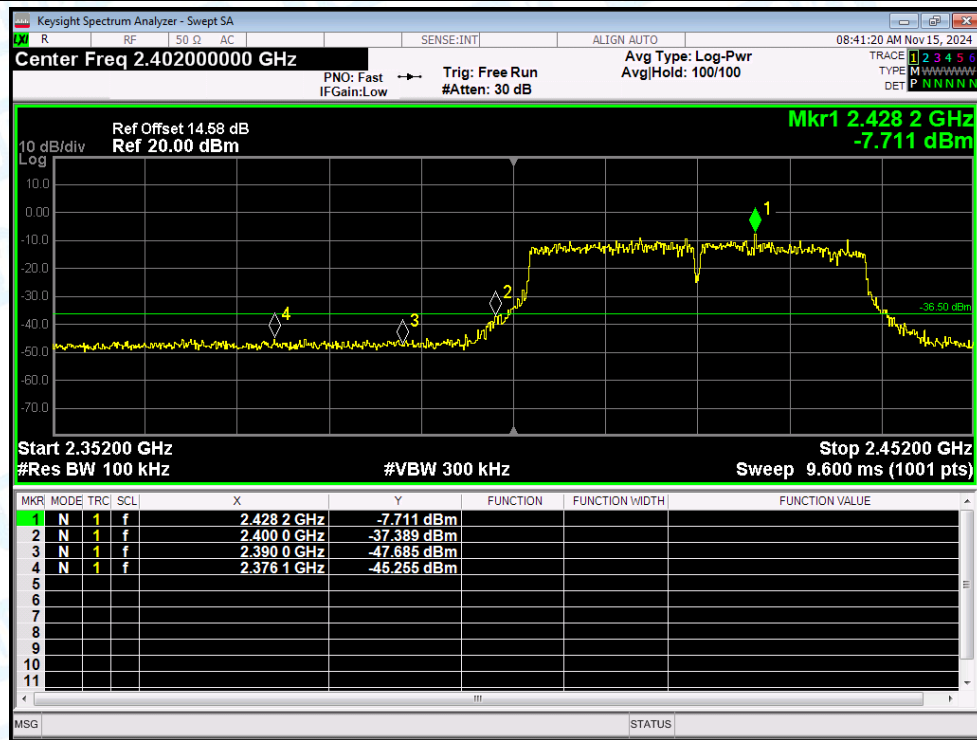
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



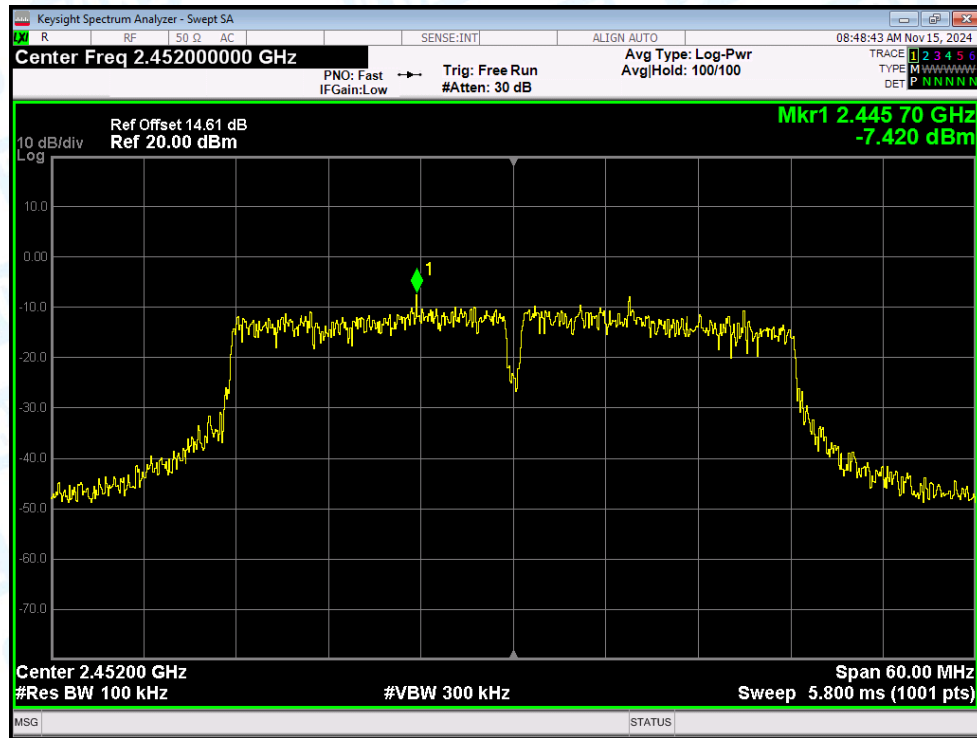
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



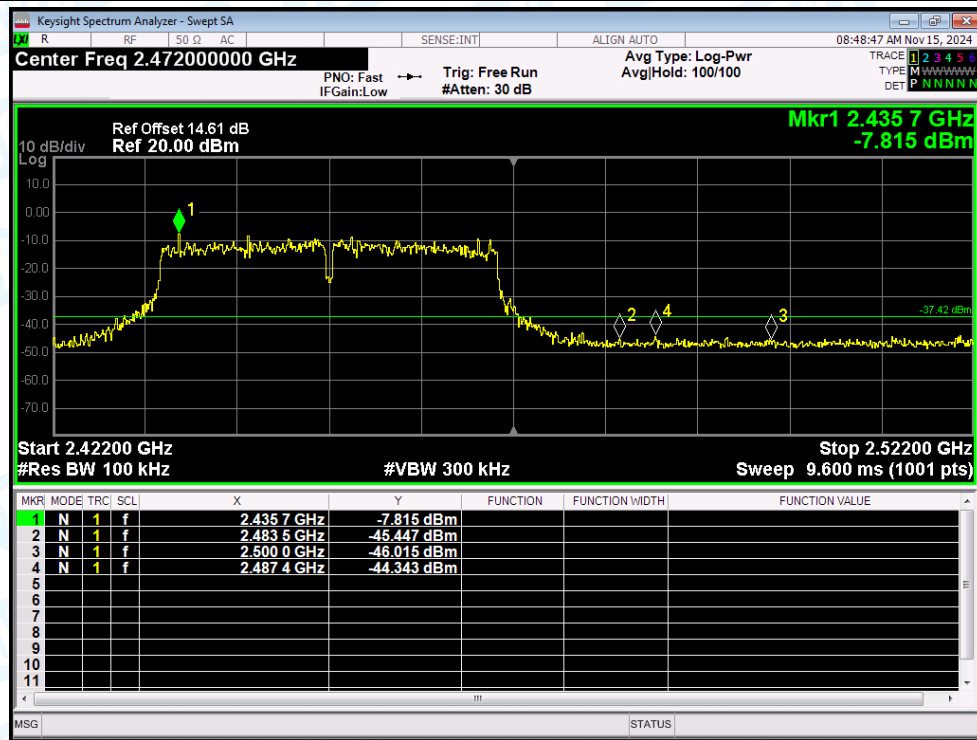
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

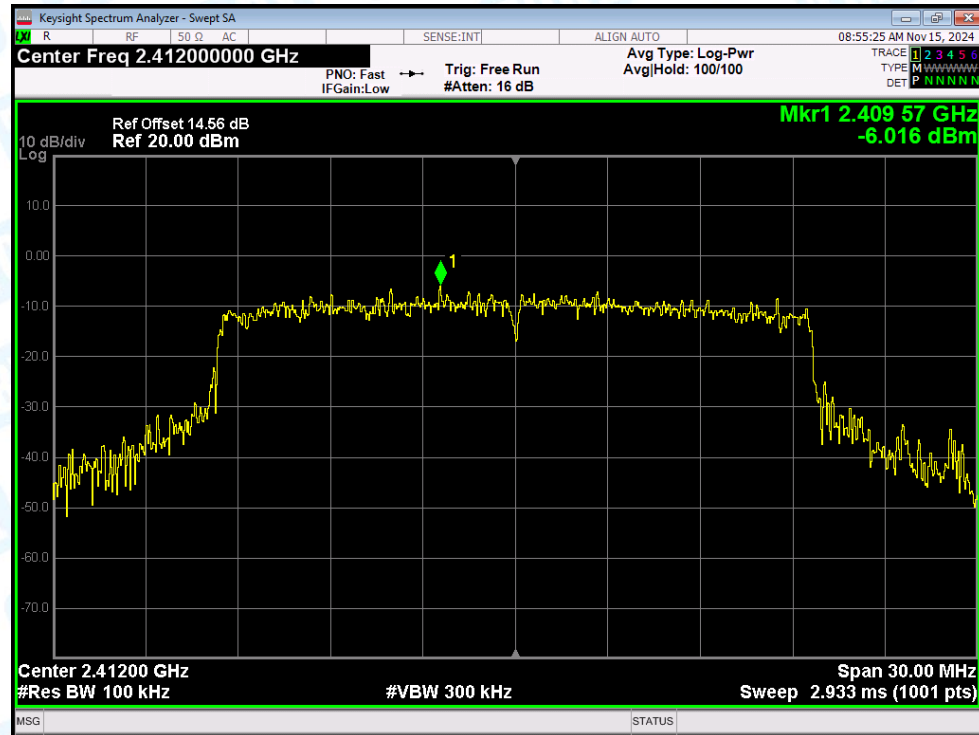


7. Conducted RF Spurious Emission

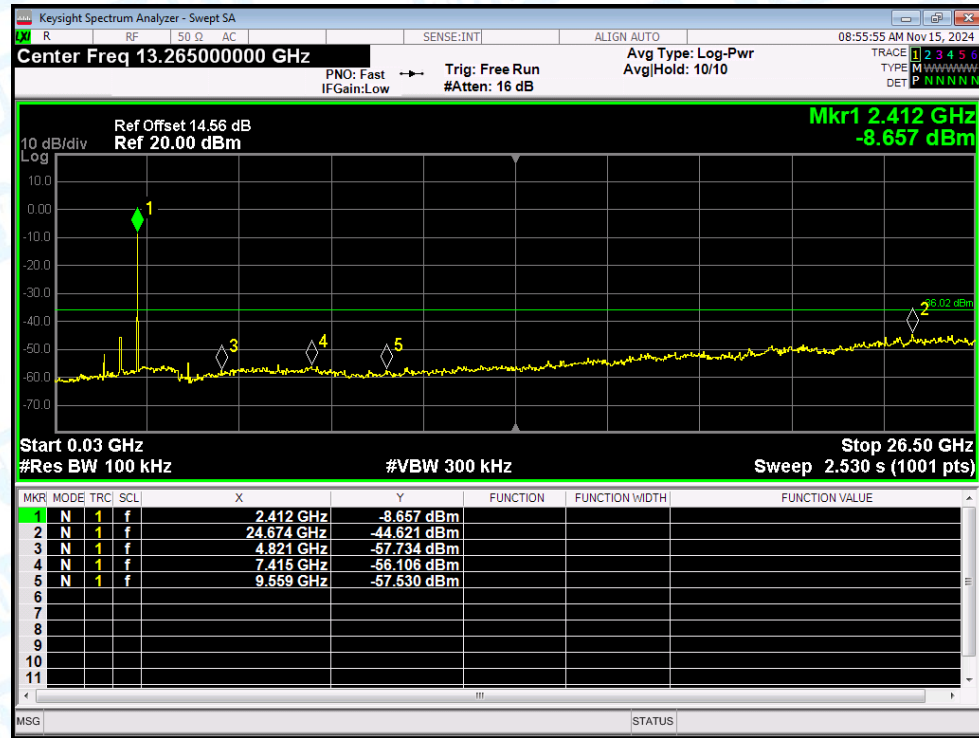
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-38.6	-30	Pass
NVNT	ax(VHT20)	2437	Ant1	-41.84	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-38.52	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-36.78	-30	Pass
NVNT	ax(VHT40)	2437	Ant1	-37.83	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-39.14	-30	Pass
NVNT	b	2412	Ant1	-45.01	-30	Pass
NVNT	b	2437	Ant1	-42.61	-30	Pass
NVNT	b	2462	Ant1	-41.93	-30	Pass
NVNT	g	2412	Ant1	-40.15	-30	Pass
NVNT	g	2437	Ant1	-40.64	-30	Pass
NVNT	g	2462	Ant1	-42.25	-30	Pass
NVNT	n(HT20)	2412	Ant1	-41.22	-30	Pass
NVNT	n(HT20)	2437	Ant1	-39.46	-30	Pass
NVNT	n(HT20)	2462	Ant1	-39.93	-30	Pass
NVNT	n(HT40)	2422	Ant1	-35.67	-30	Pass
NVNT	n(HT40)	2437	Ant1	-39.11	-30	Pass
NVNT	n(HT40)	2452	Ant1	-38.9	-30	Pass

Test Graphs

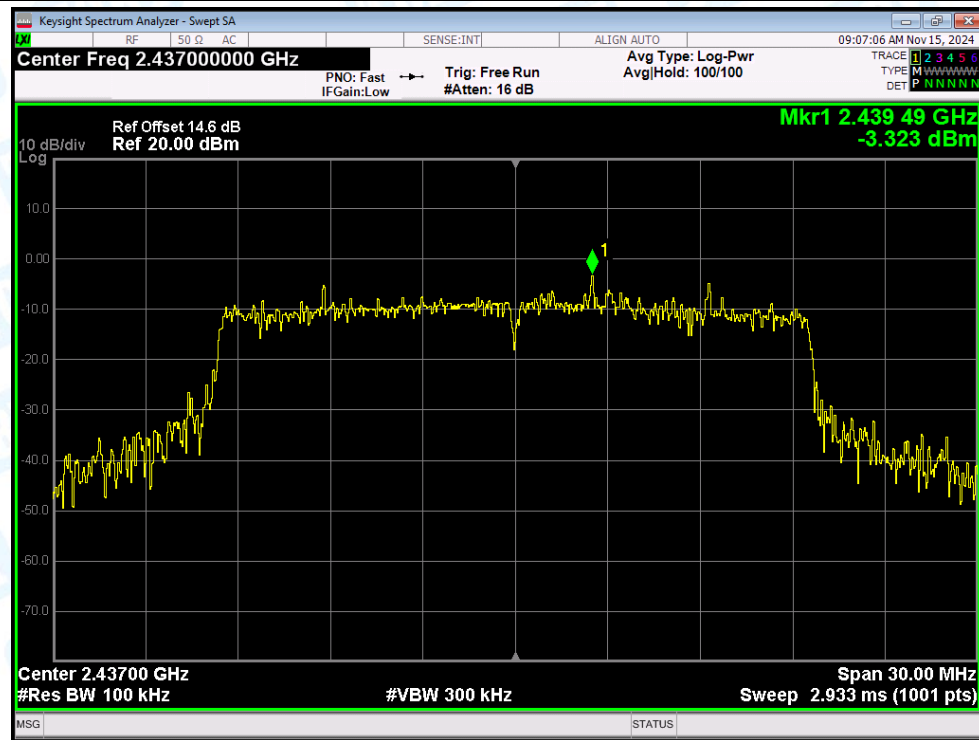
Tx. Spurious NVNT ax(VHT20) 2412MHz Ant1 Ref



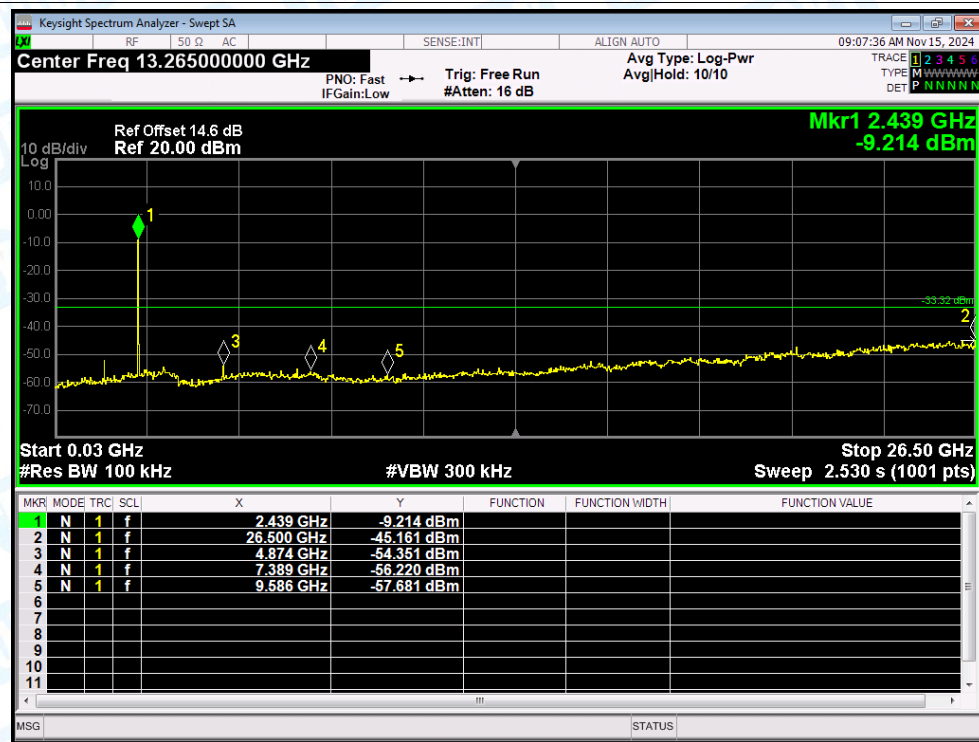
Tx. Spurious NVNT ax(VHT20) 2412MHz Ant1 Emission



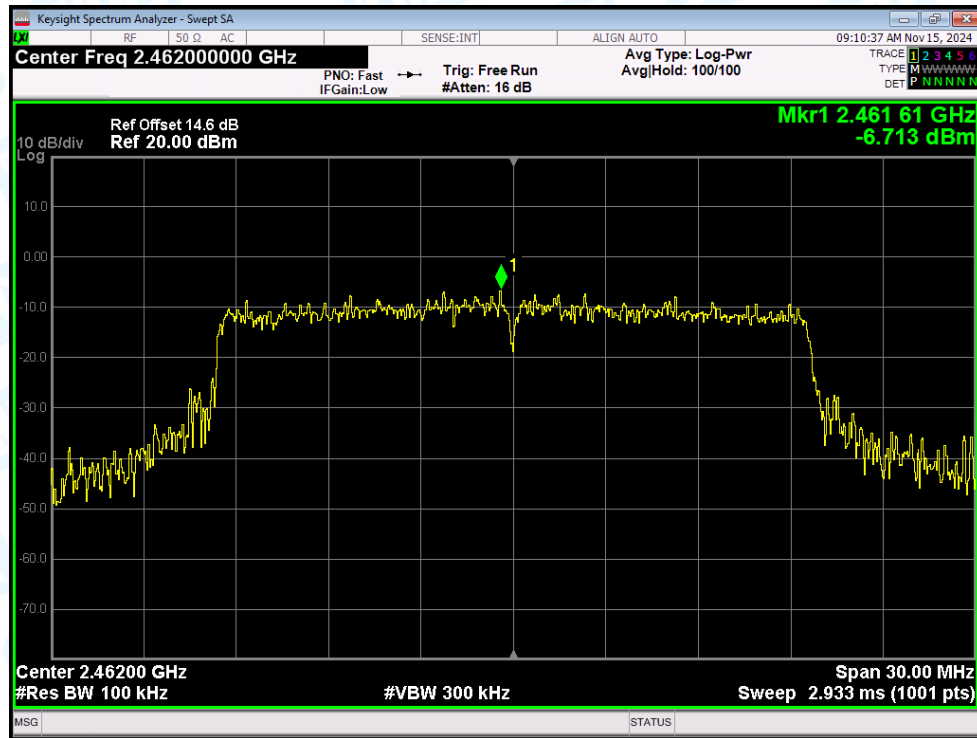
Tx. Spurious NVNT ax(VHT20) 2437MHz Ant1 Ref



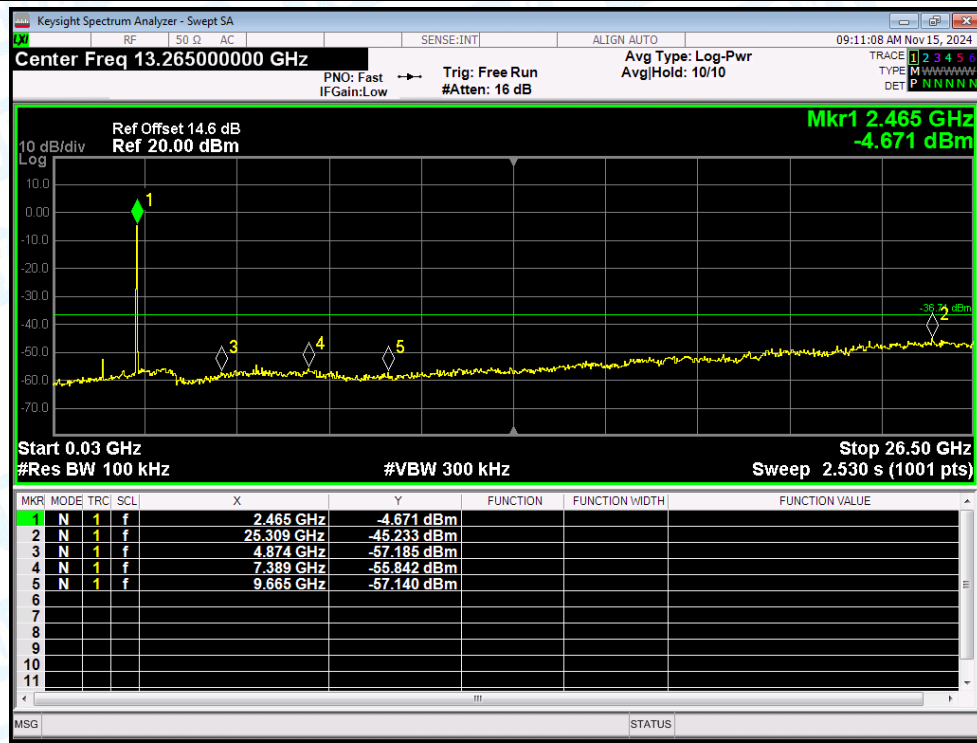
Tx. Spurious NVNT ax(VHT20) 2437MHz Ant1 Emission



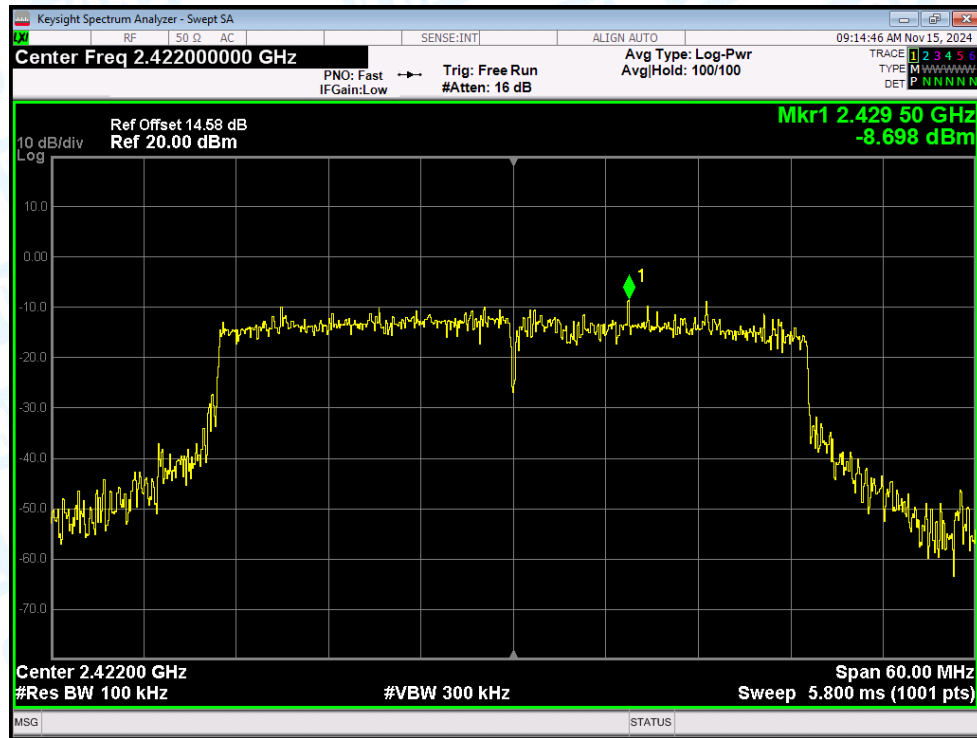
Tx. Spurious NVNT ax(VHT20) 2462MHz Ant1 Ref



Tx. Spurious NVNT ax(VHT20) 2462MHz Ant1 Emission



Tx. Spurious NVNT ax(VHT40) 2422MHz Ant1 Ref



Tx. Spurious NVNT ax(VHT40) 2422MHz Ant1 Emission

