

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	WIFI CAMERA
Test Model:	Y03-W2
Sample ID:	HC-C-202405-0316-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	ZKN zhou
Note: For a more detailed features description, please refer to the report TBR-C-202405-0316-6 The report only show the worst case data.	

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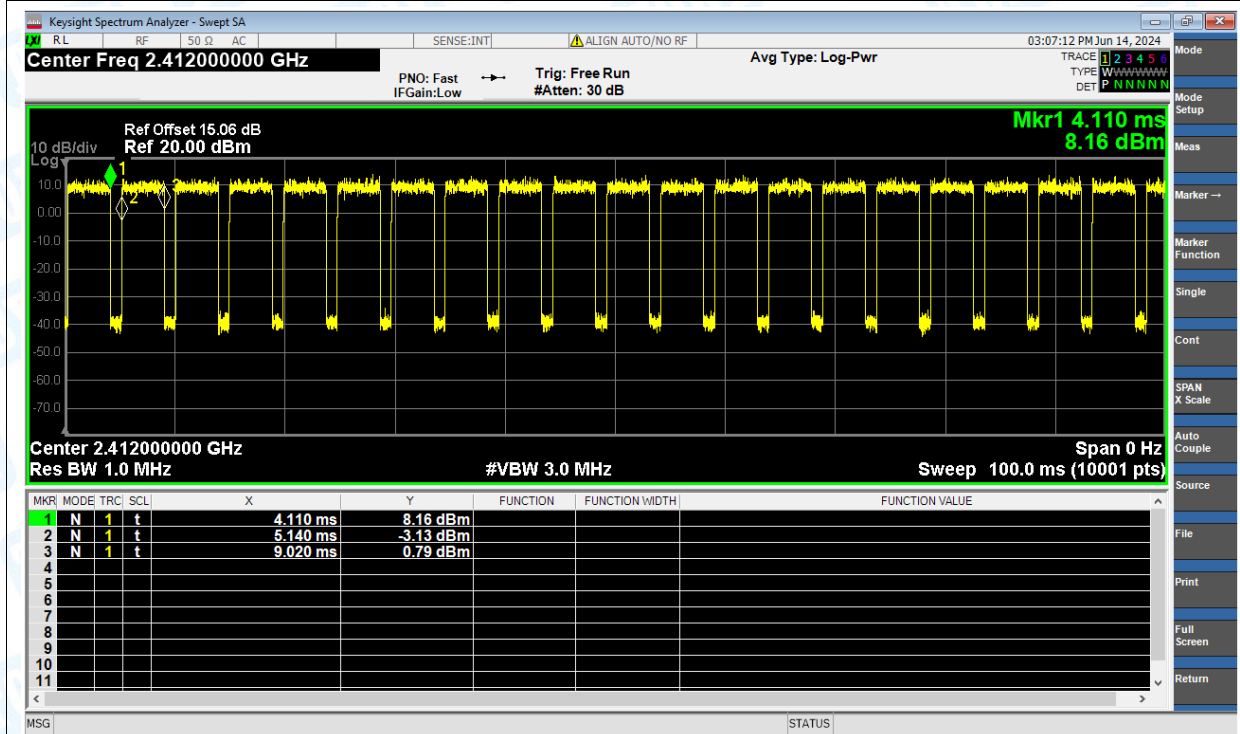
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1. Duty Cycle

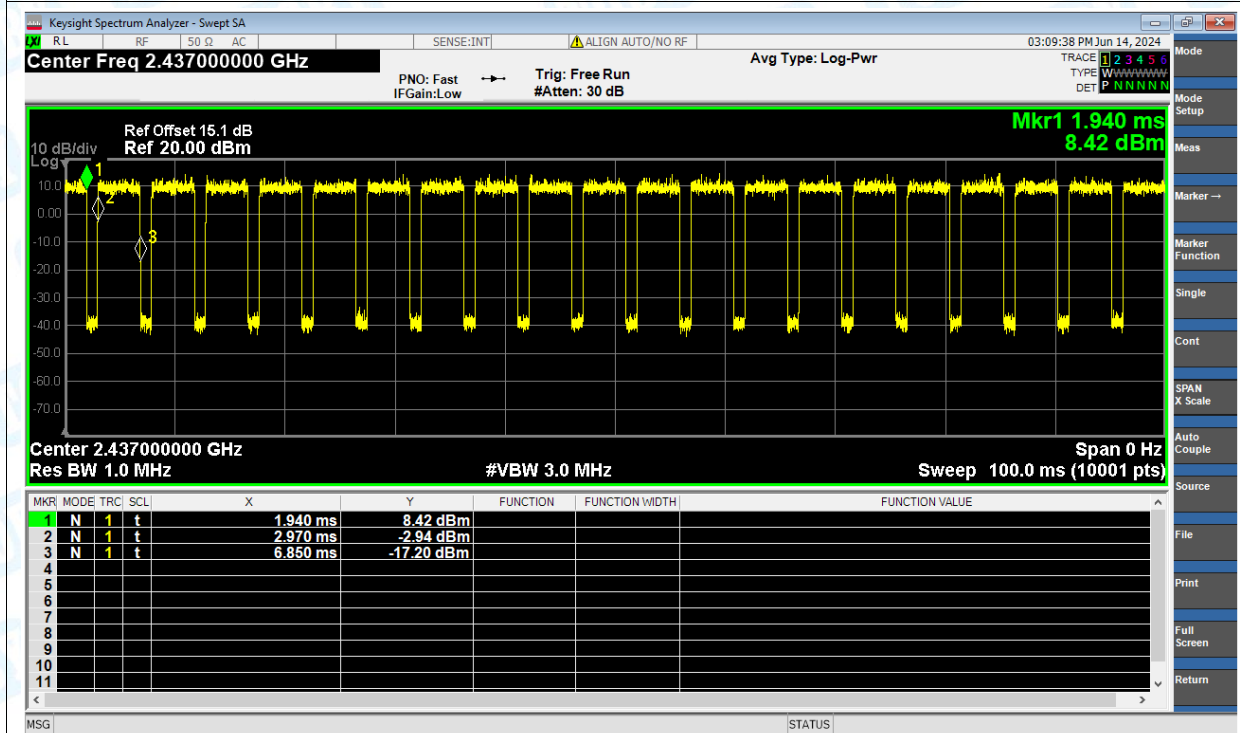
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	79.02	1.02	0.26
NVNT	ax(VHT20)	2437	Ant1	79.02	1.02	0.26
NVNT	ax(VHT20)	2462	Ant1	79.14	1.02	0.26
NVNT	ax(VHT40)	2422	Ant1	78.98	1.02	0.26
NVNT	ax(VHT40)	2437	Ant1	78.98	1.02	0.26
NVNT	ax(VHT40)	2452	Ant1	79.14	1.02	0.26
NVNT	b	2412	Ant1	89.18	0.5	0.12
NVNT	b	2437	Ant1	89.19	0.5	0.12
NVNT	b	2462	Ant1	89.09	0.5	0.12
NVNT	g	2412	Ant1	57.85	2.38	0.71
NVNT	g	2437	Ant1	57.44	2.41	0.72
NVNT	g	2462	Ant1	57.44	2.41	0.72
NVNT	n(HT20)	2412	Ant1	83.17	0.8	0.2
NVNT	n(HT20)	2437	Ant1	83.31	0.79	0.2
NVNT	n(HT20)	2462	Ant1	83.17	0.8	0.2
NVNT	n(HT40)	2422	Ant1	82.6	0.83	0.2
NVNT	n(HT40)	2437	Ant1	82.77	0.82	0.2
NVNT	n(HT40)	2452	Ant1	82.63	0.83	0.2

Test Graphs

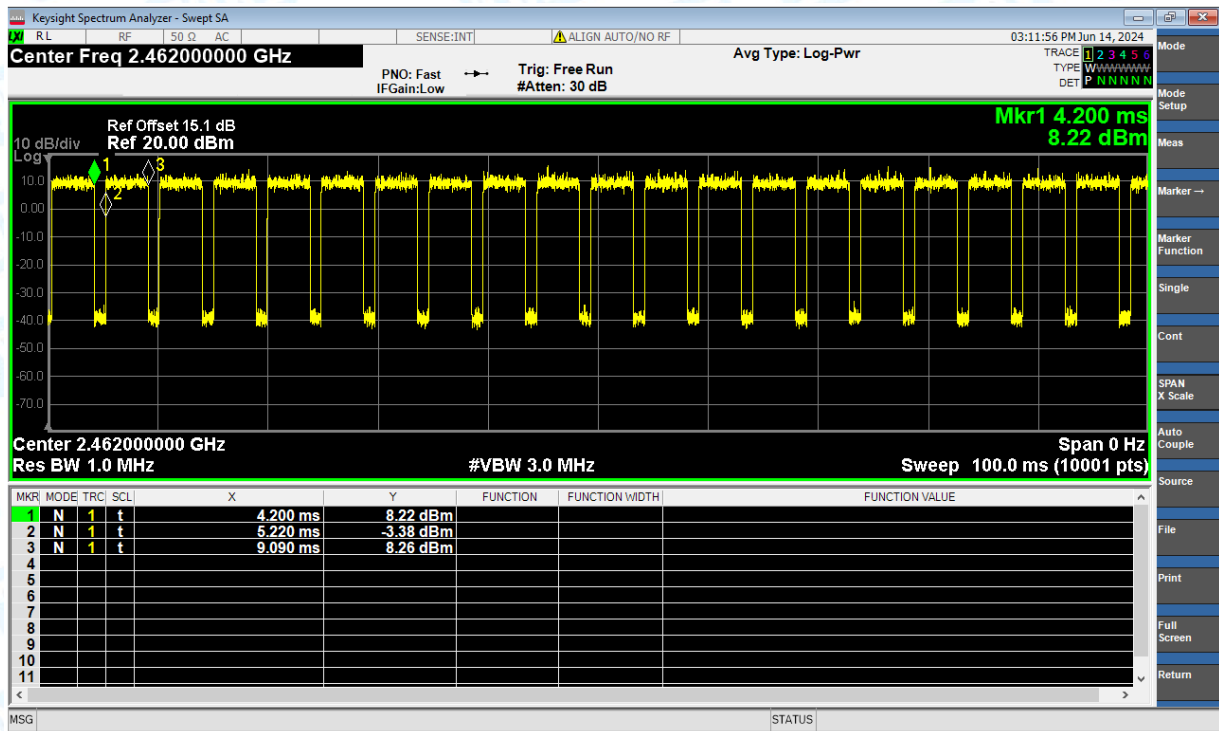
Duty Cycle NVNT ax(VHT20) 2412MHz Ant1



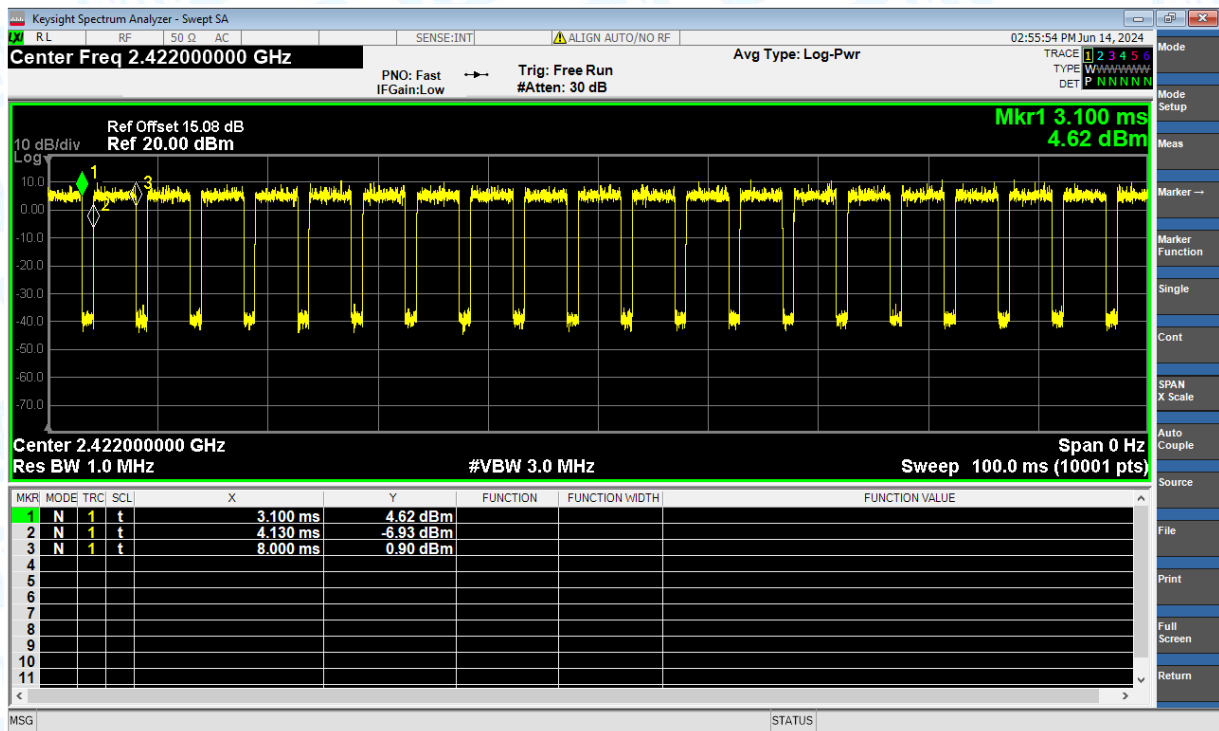
Duty Cycle NVNT ax(VHT20) 2437MHz Ant1



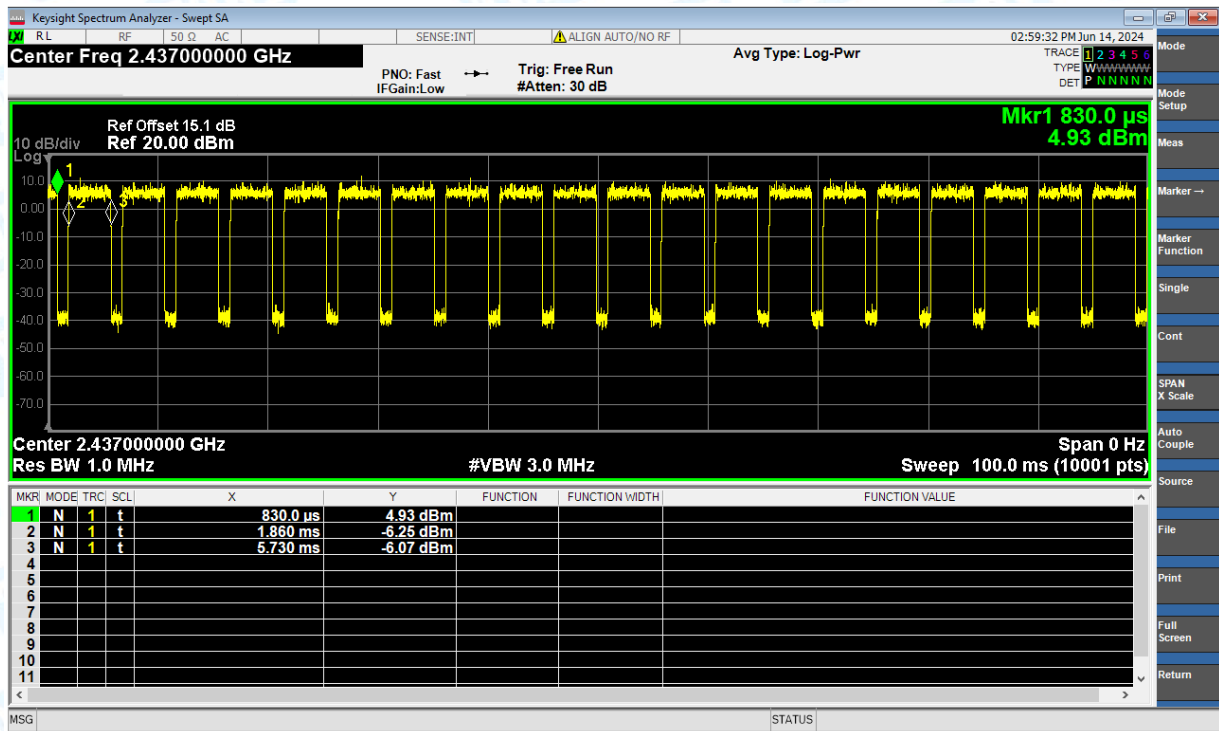
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



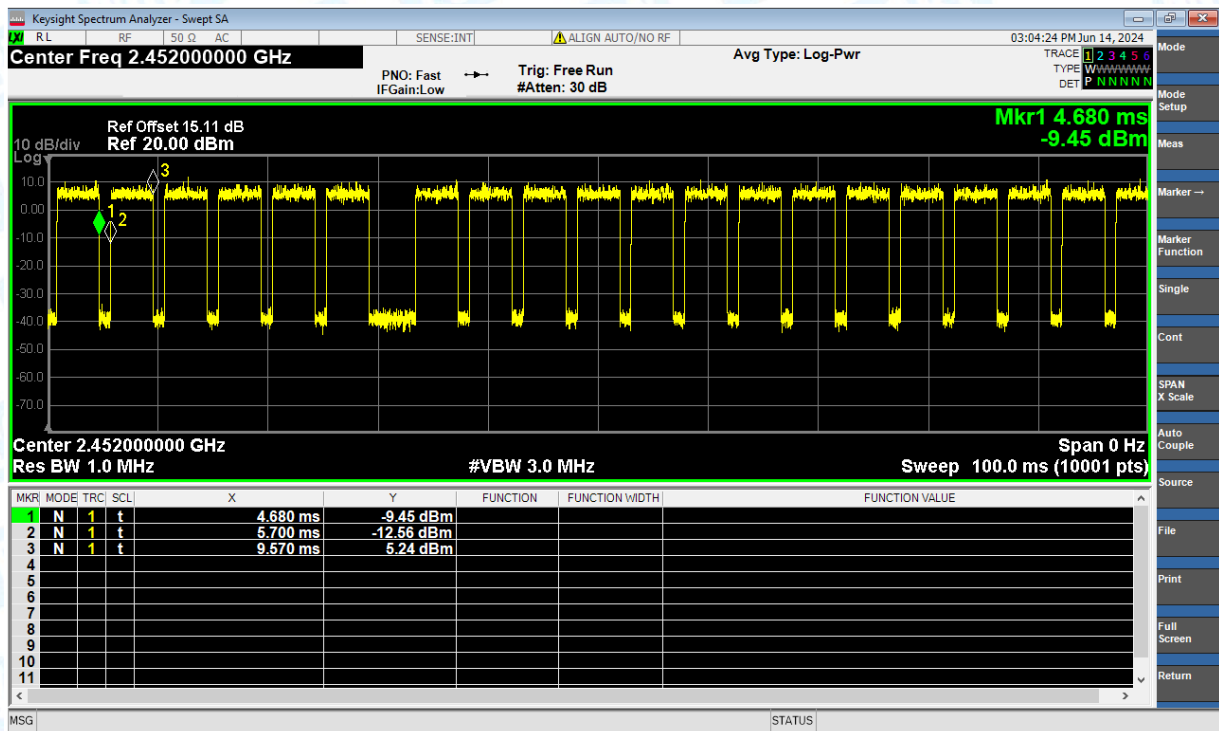
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



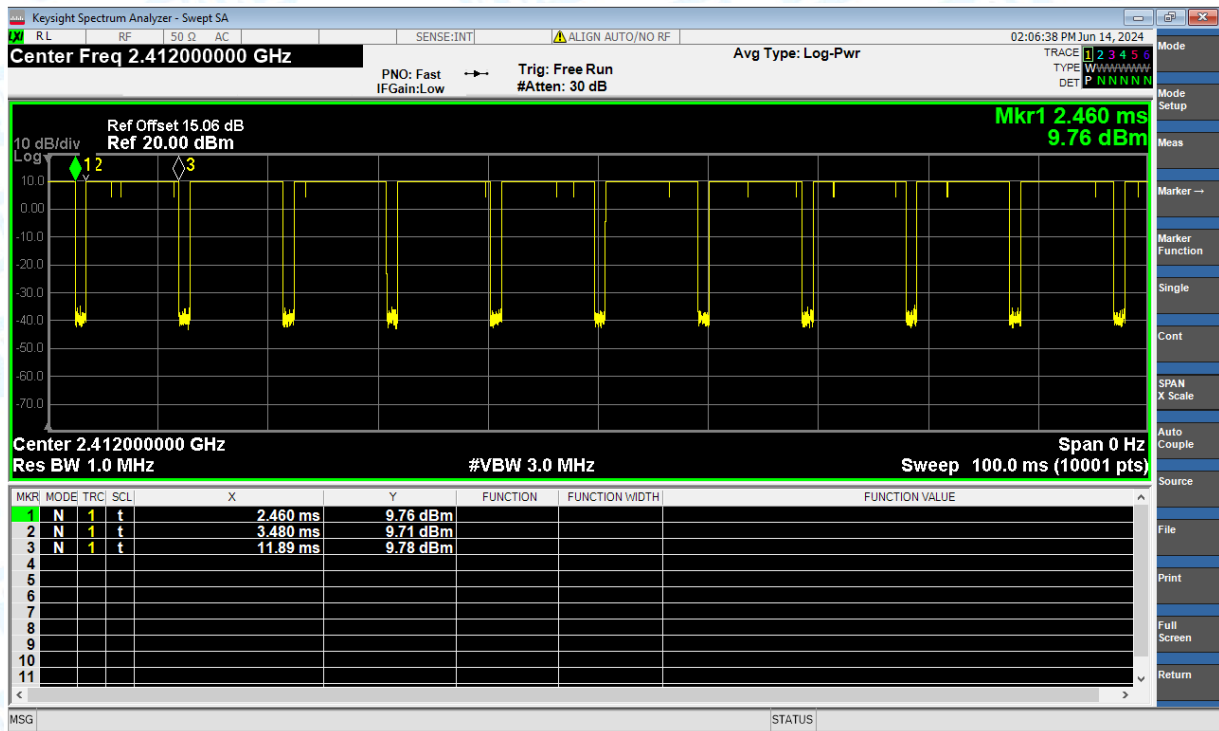
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



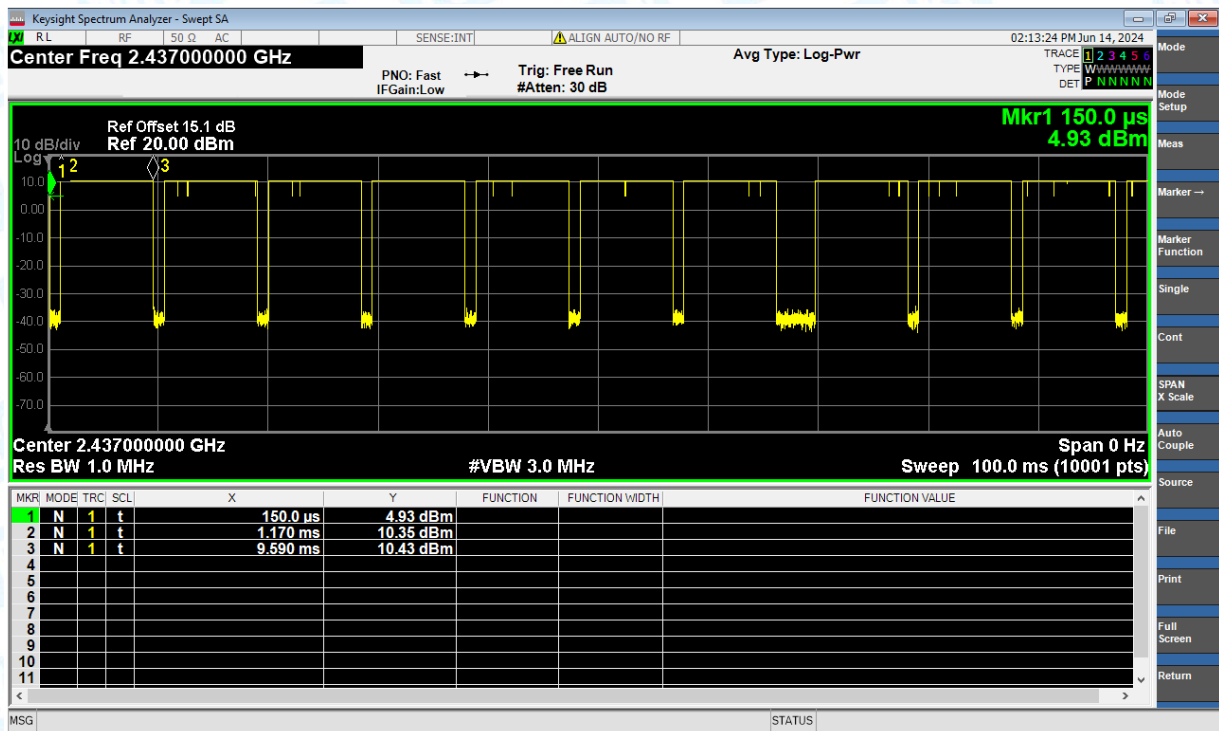
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



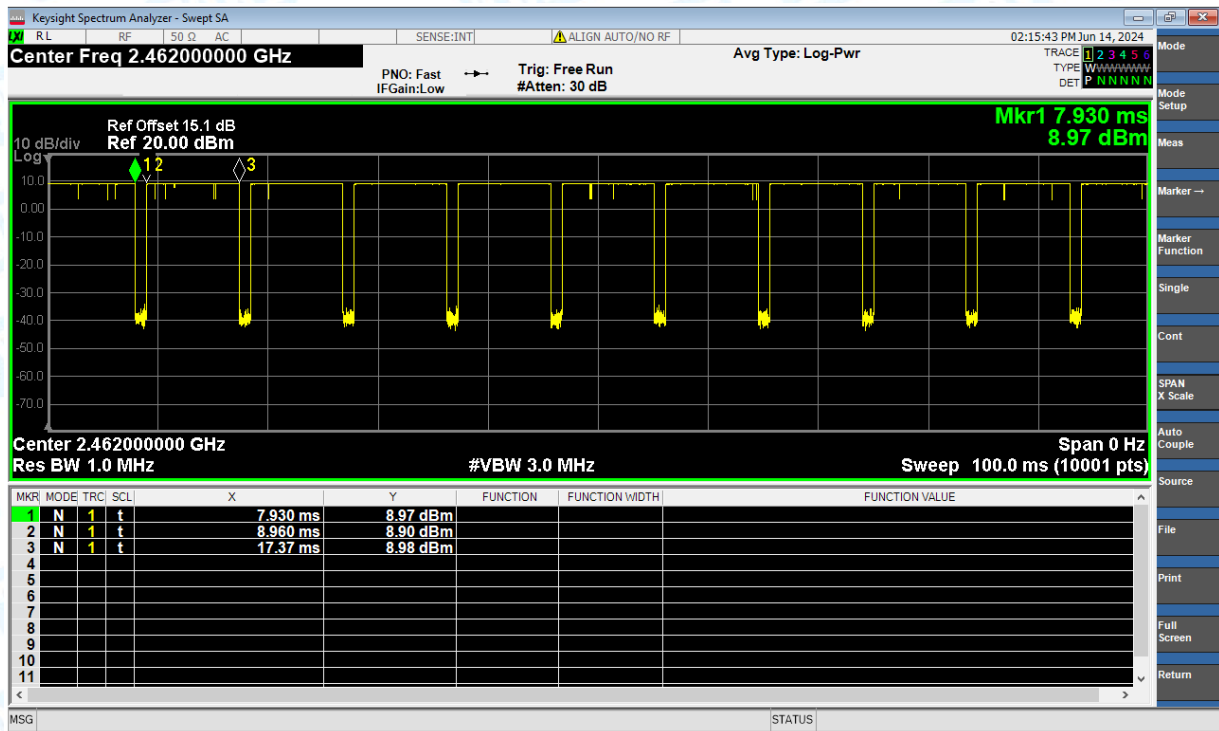
Duty Cycle NVNT b 2412MHz Ant1



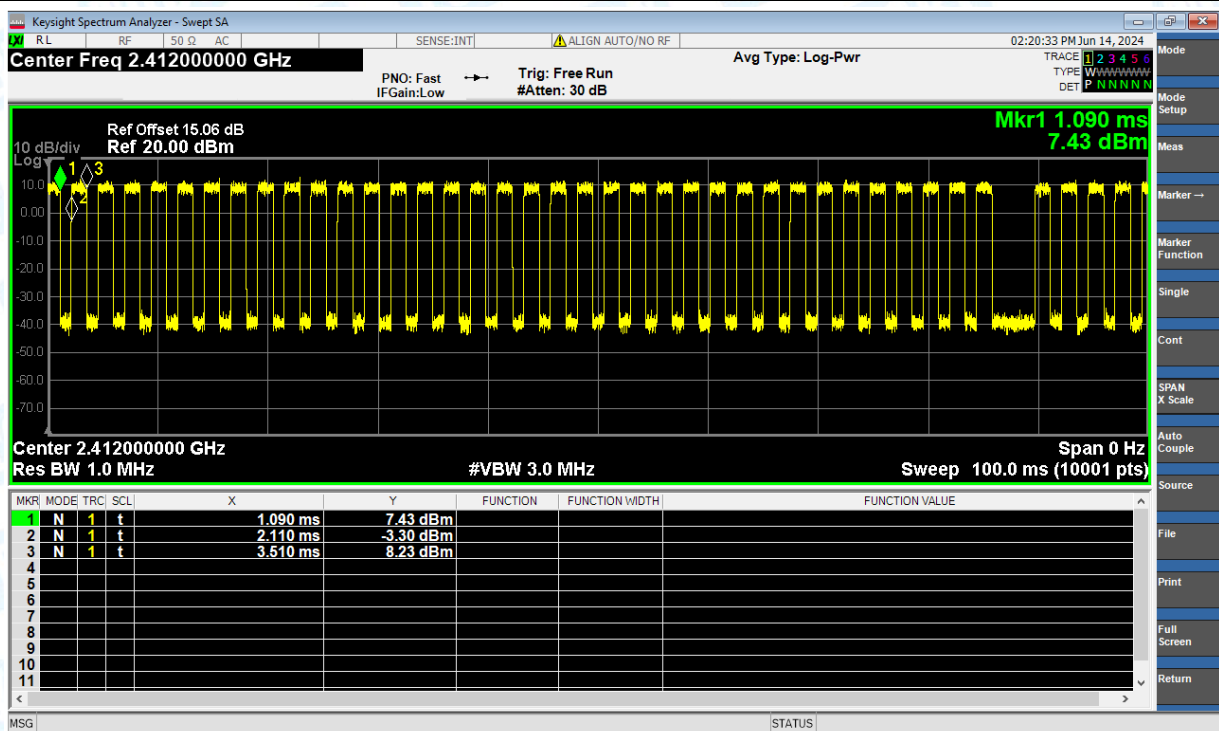
Duty Cycle NVNT b 2437MHz Ant1



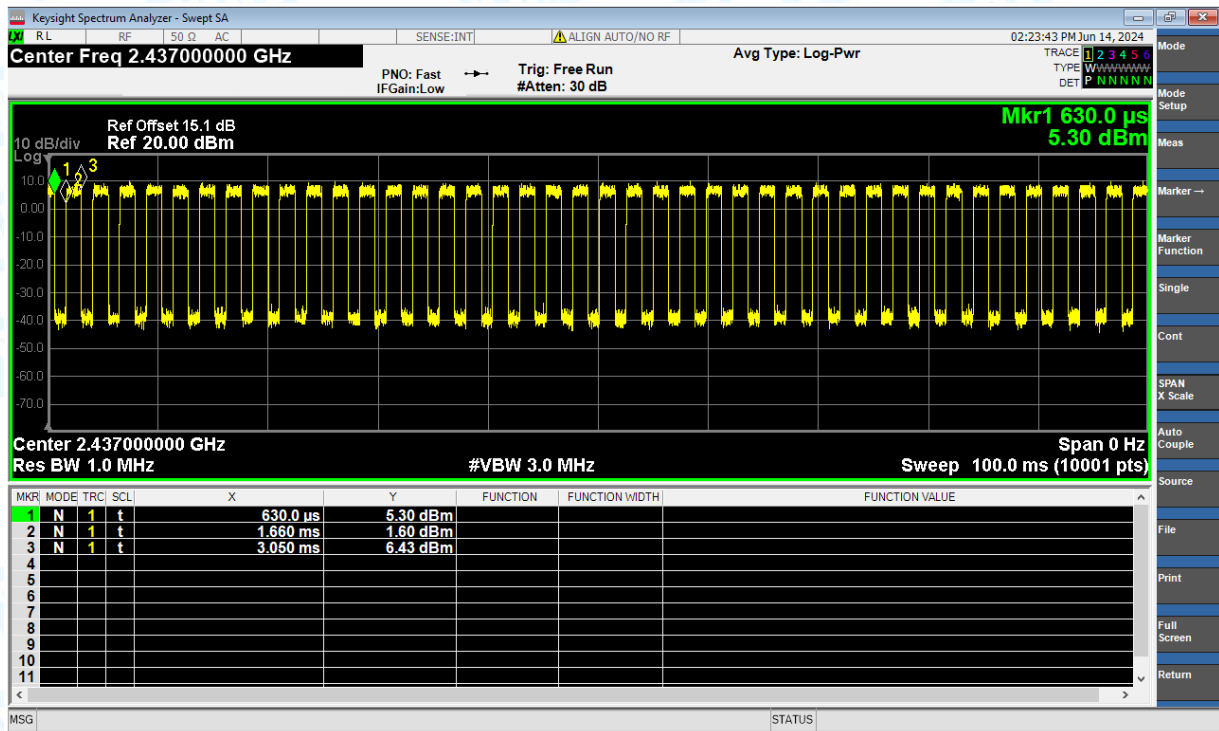
Duty Cycle NVNT b 2462MHz Ant1



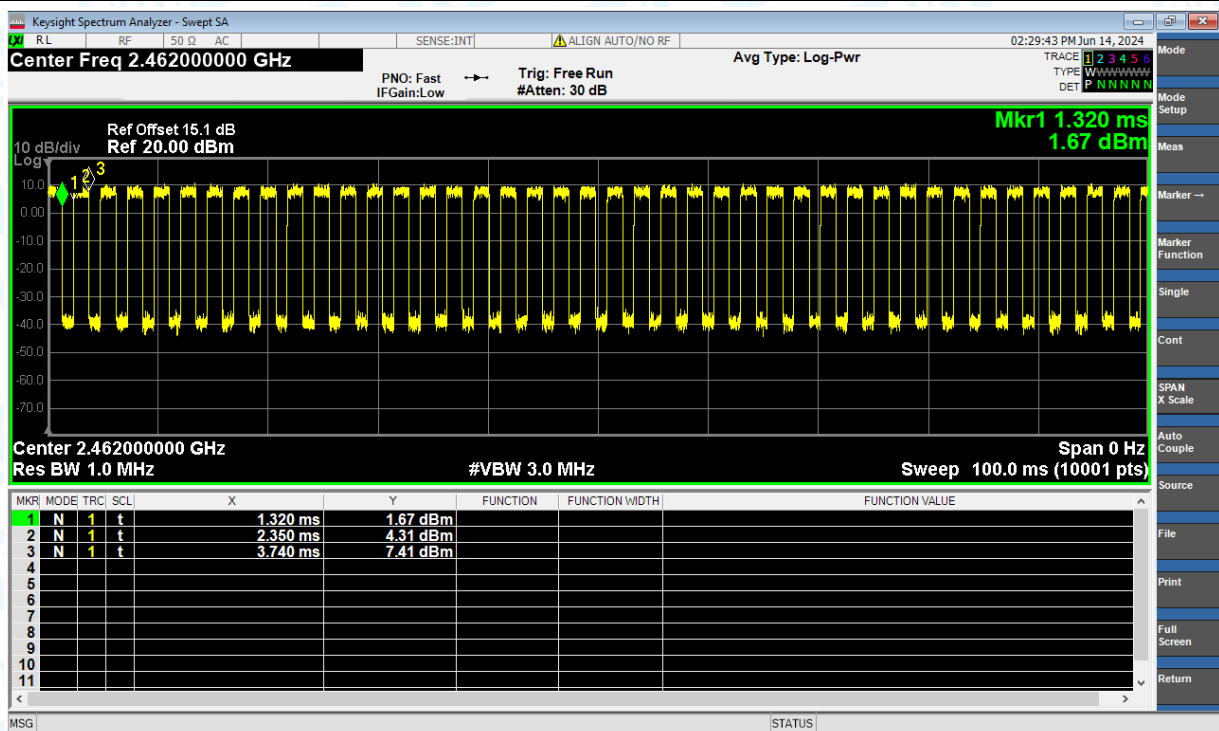
Duty Cycle NVNT g 2412MHz Ant1



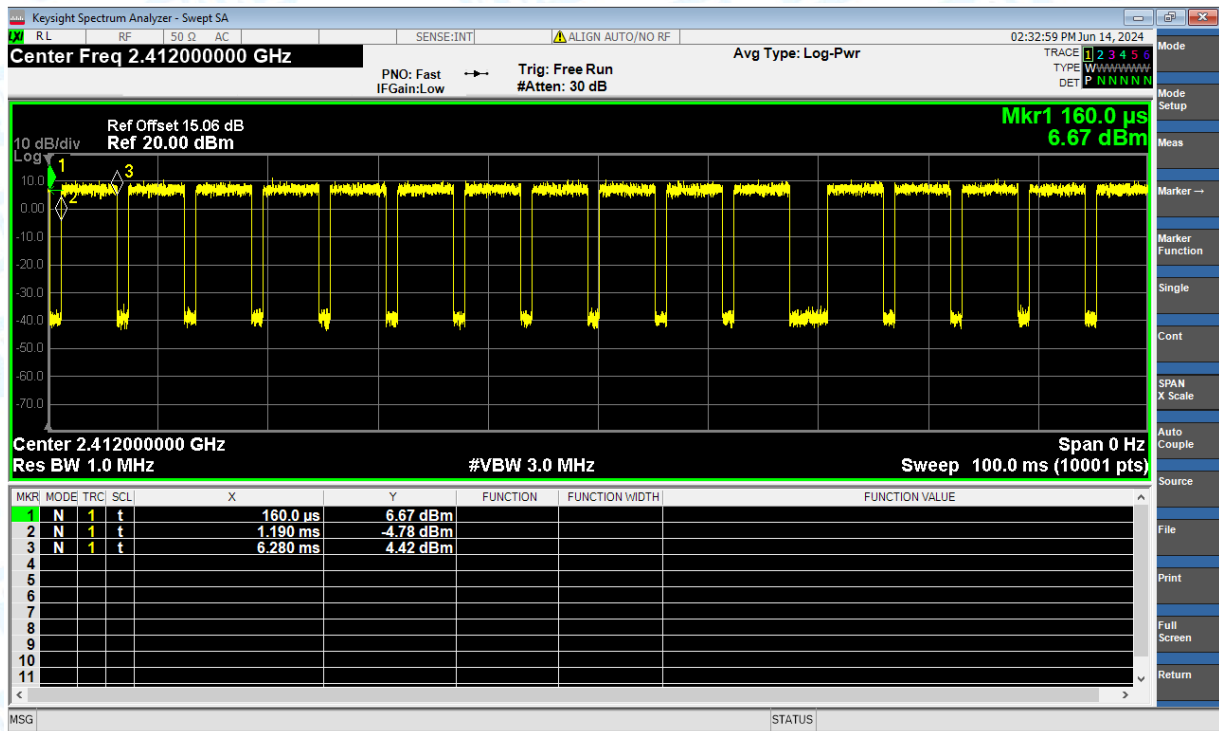
Duty Cycle NVNT g 2437MHz Ant1



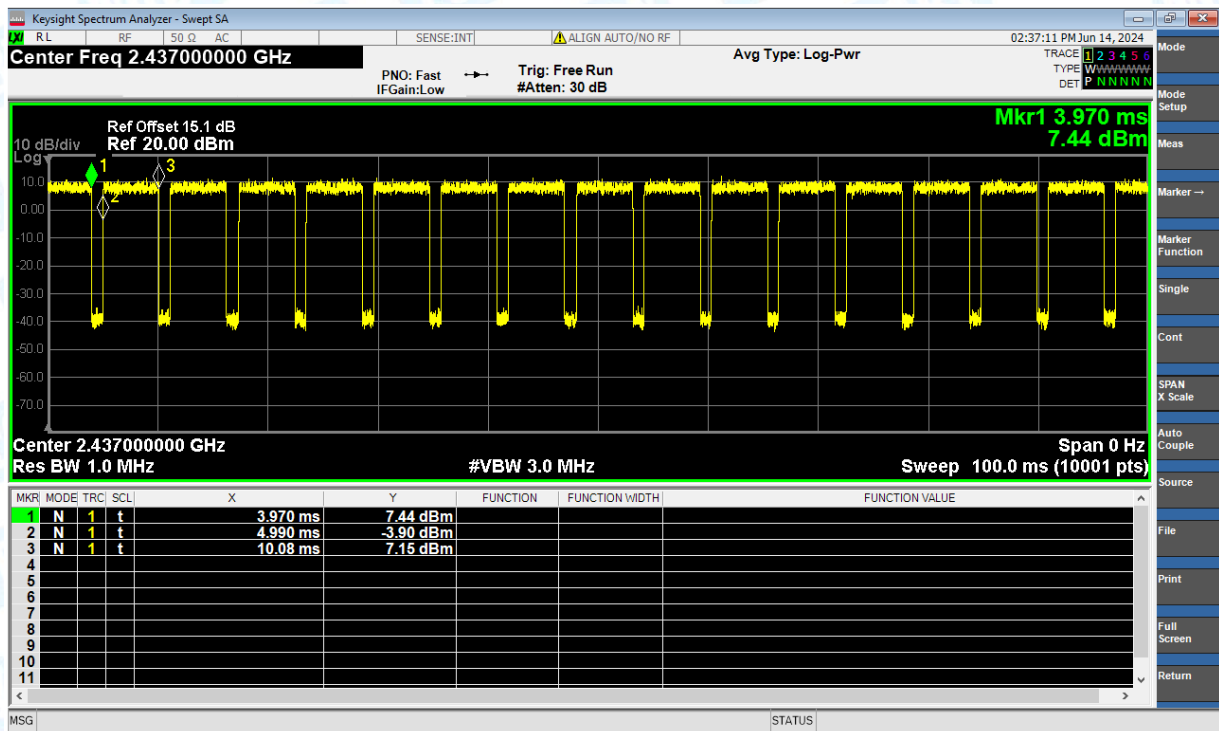
Duty Cycle NVNT g 2462MHz Ant1



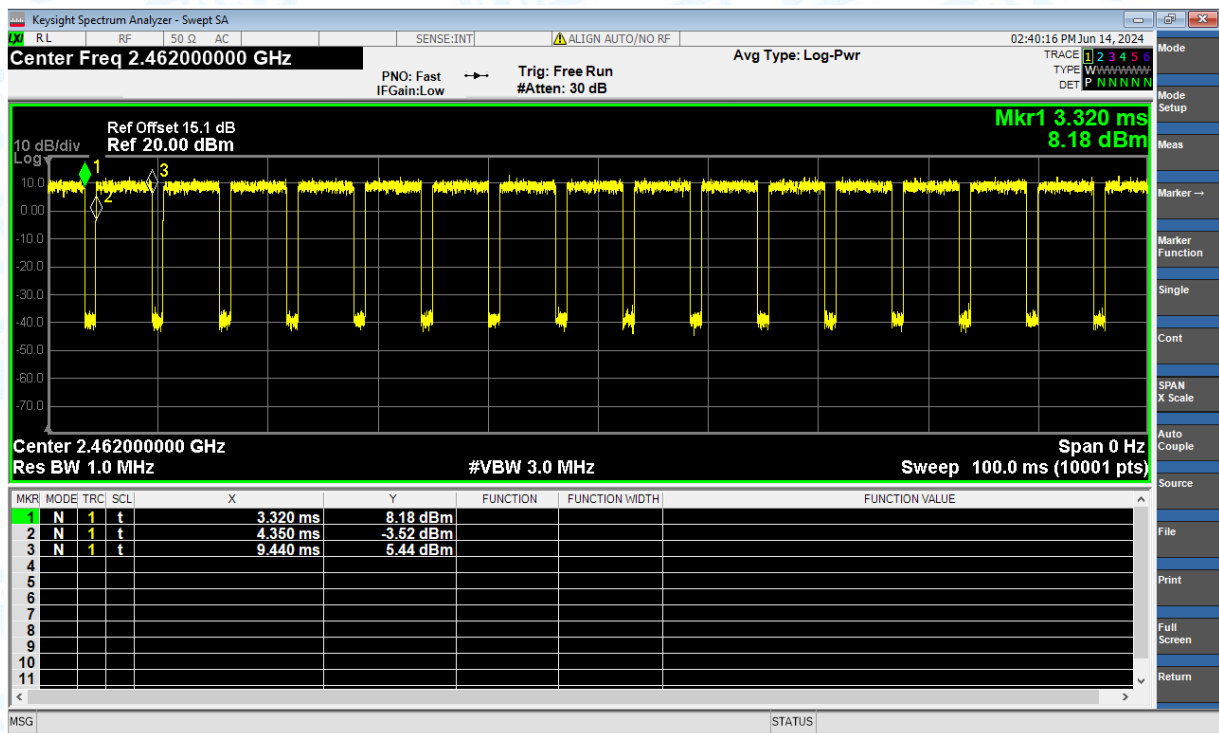
Duty Cycle NVNT n(HT20) 2412MHz Ant1



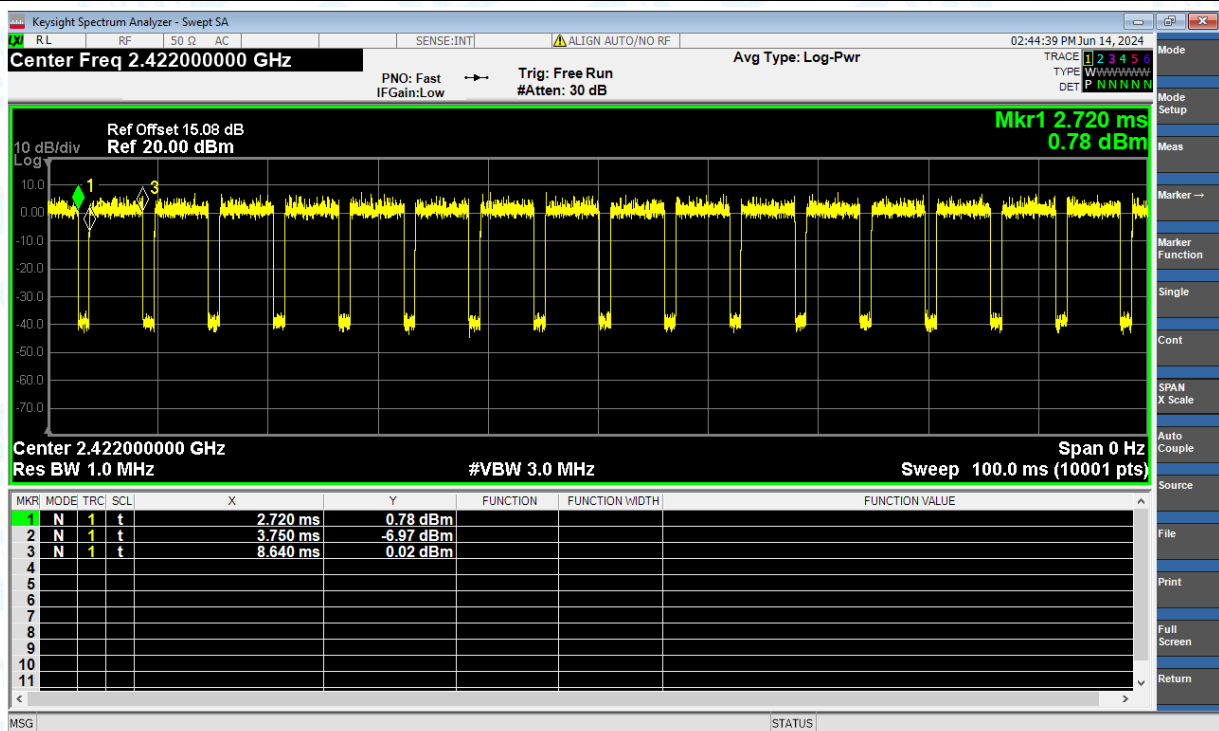
Duty Cycle NVNT n(HT20) 2437MHz Ant1



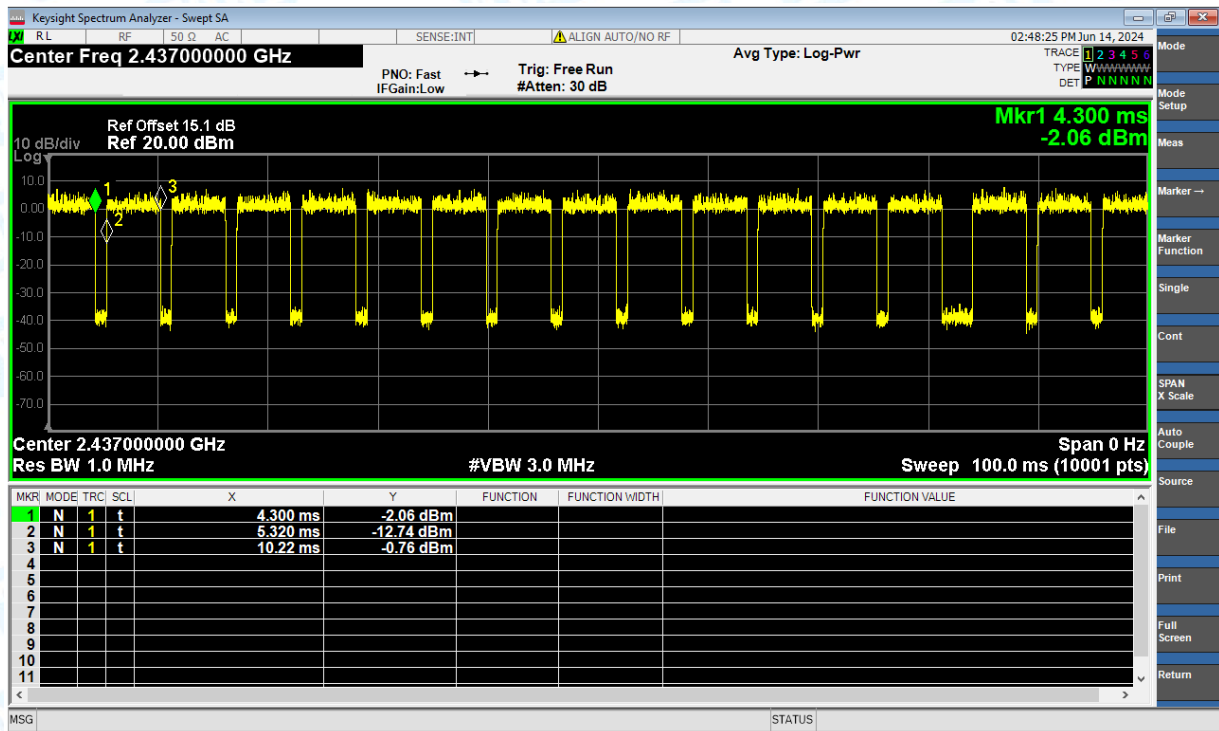
Duty Cycle NVNT n(HT20) 2462MHz Ant1



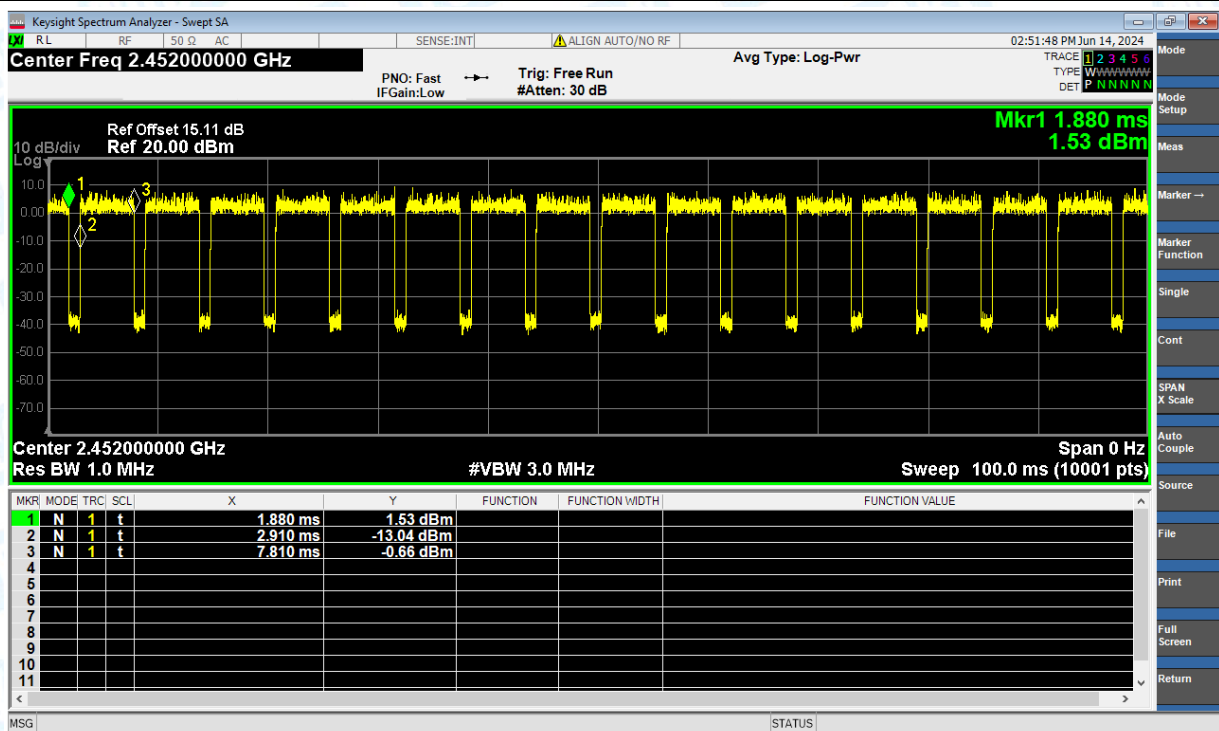
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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	15.52	30	Pass
NVNT	ax(VHT20)	2437	Ant1	15.74	30	Pass
NVNT	ax(VHT20)	2462	Ant1	15.52	30	Pass
NVNT	ax(VHT40)	2422	Ant1	15.15	30	Pass
NVNT	ax(VHT40)	2437	Ant1	15.73	30	Pass
NVNT	ax(VHT40)	2452	Ant1	15.74	30	Pass
NVNT	b	2412	Ant1	15.47	30	Pass
NVNT	b	2437	Ant1	15.07	30	Pass
NVNT	b	2462	Ant1	15.15	30	Pass
NVNT	g	2412	Ant1	15.58	30	Pass
NVNT	g	2437	Ant1	15.61	30	Pass
NVNT	g	2462	Ant1	15.61	30	Pass
NVNT	n(HT20)	2412	Ant1	15.45	30	Pass
NVNT	n(HT20)	2437	Ant1	15.66	30	Pass
NVNT	n(HT20)	2462	Ant1	15.43	30	Pass
NVNT	n(HT40)	2422	Ant1	15.00	30	Pass
NVNT	n(HT40)	2437	Ant1	15.52	30	Pass
NVNT	n(HT40)	2452	Ant1	15.55	30	Pass

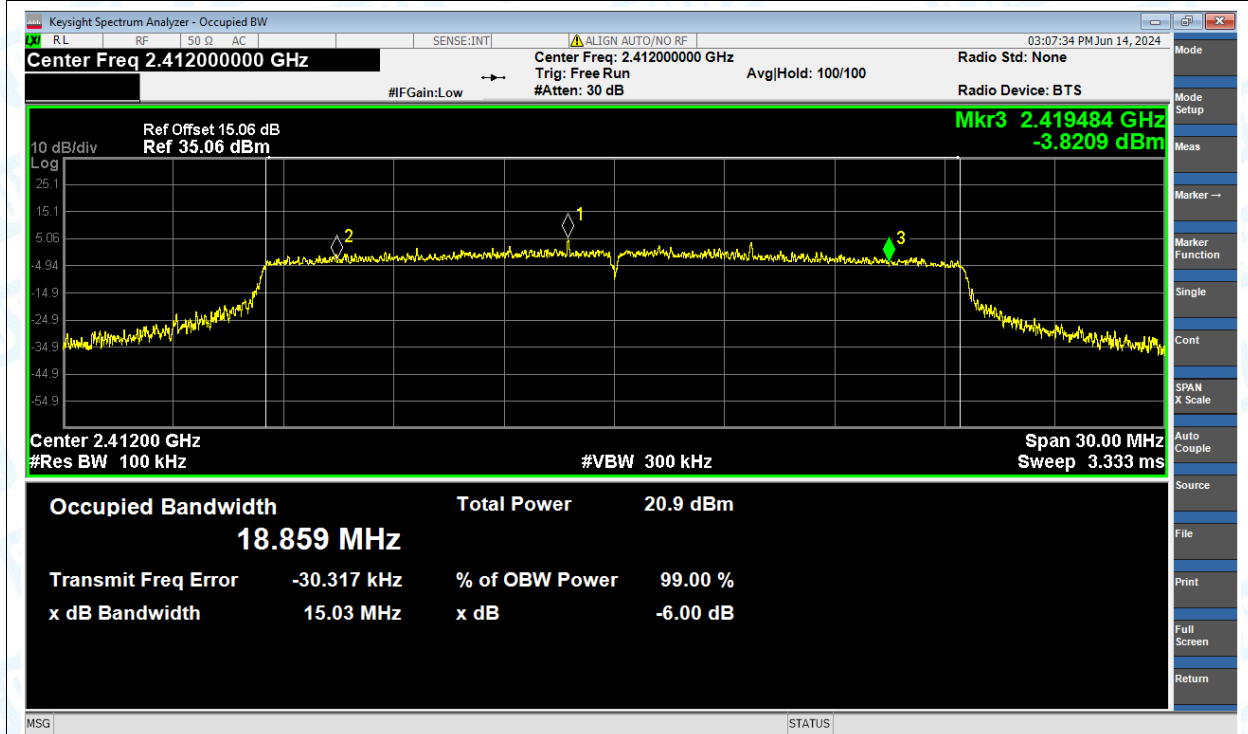
Note: The Duty Cycle Factor is compensated in the graph.

3. -6dB Bandwidth

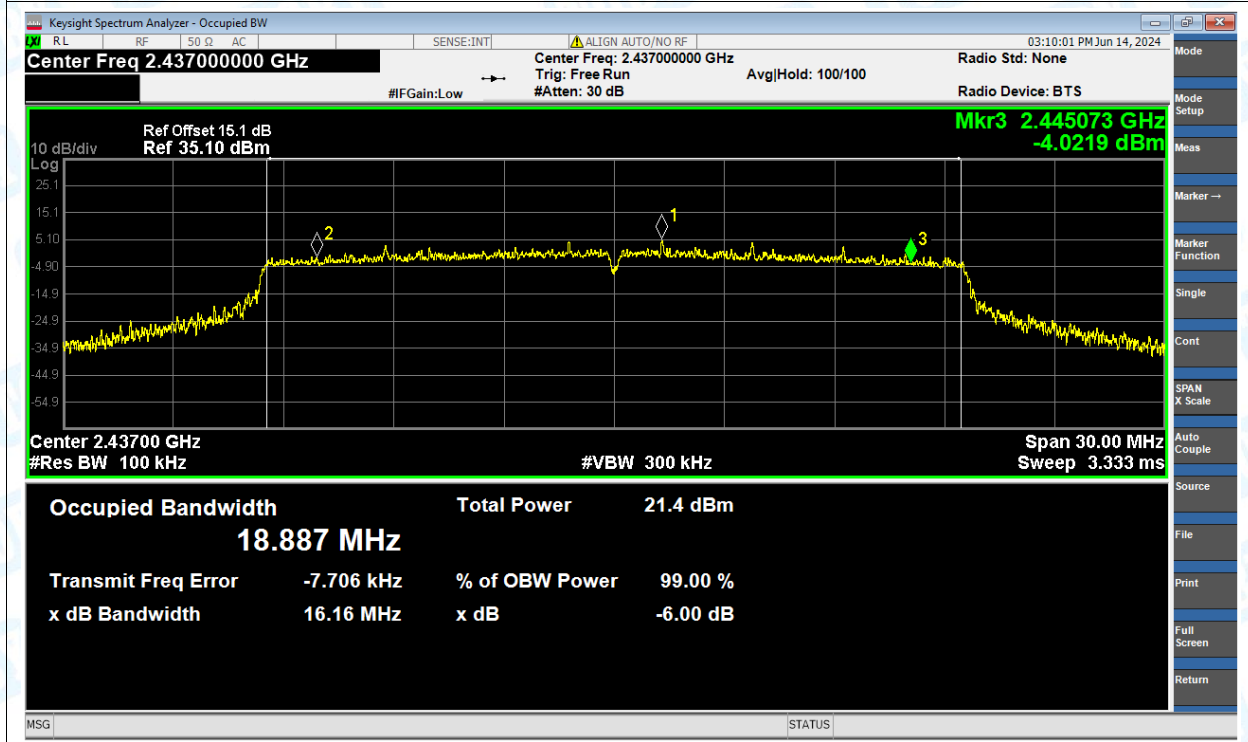
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	15.03	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	16.16	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	17.15	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	36.4	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	37.76	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	37.64	0.5	Pass
NVNT	b	2412	Ant1	7.07	0.5	Pass
NVNT	b	2437	Ant1	7.53	0.5	Pass
NVNT	b	2462	Ant1	8.06	0.5	Pass
NVNT	g	2412	Ant1	15.17	0.5	Pass
NVNT	g	2437	Ant1	13.63	0.5	Pass
NVNT	g	2462	Ant1	16.06	0.5	Pass
NVNT	n(HT20)	2412	Ant1	14.78	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.15	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.39	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.07	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.06	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.09	0.5	Pass

Test Graphs

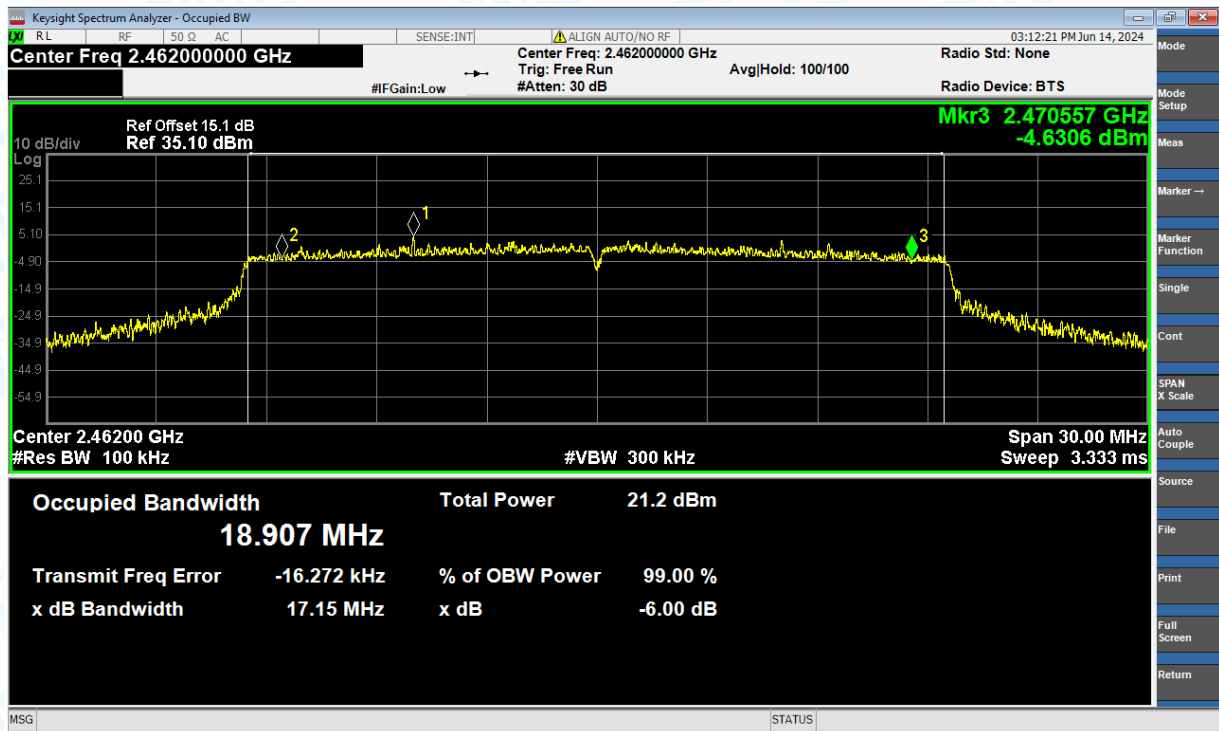
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



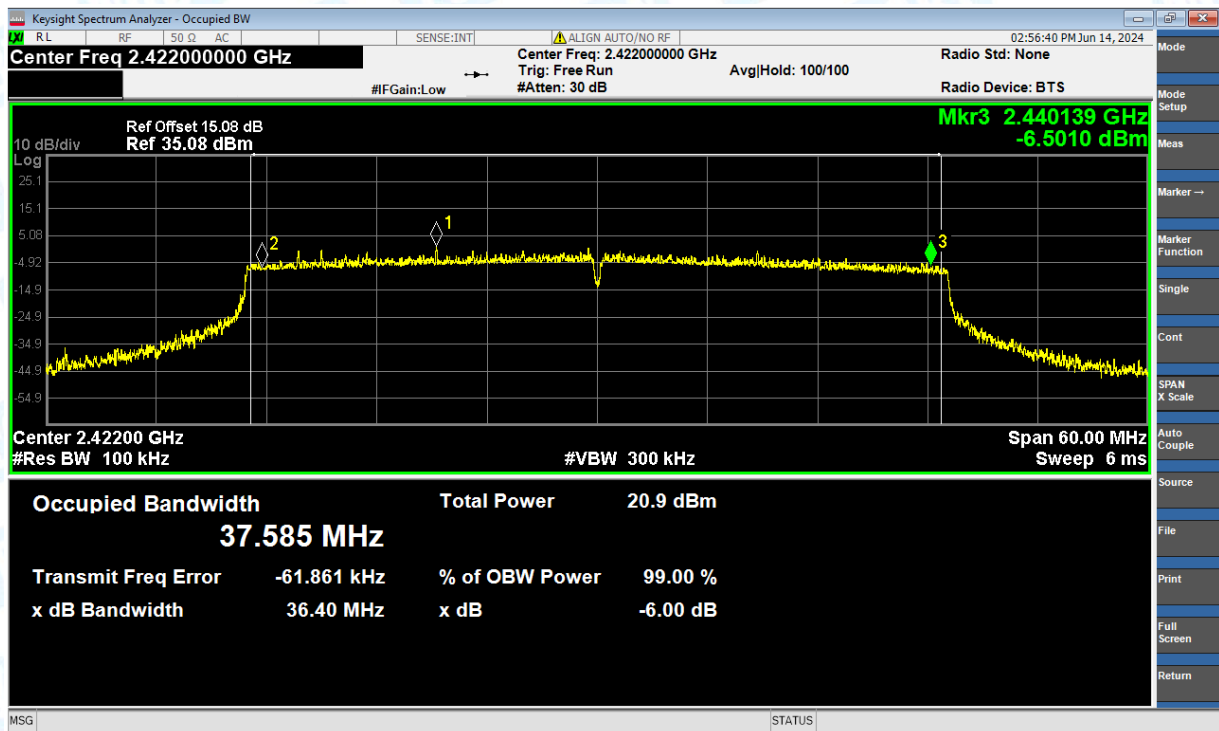
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



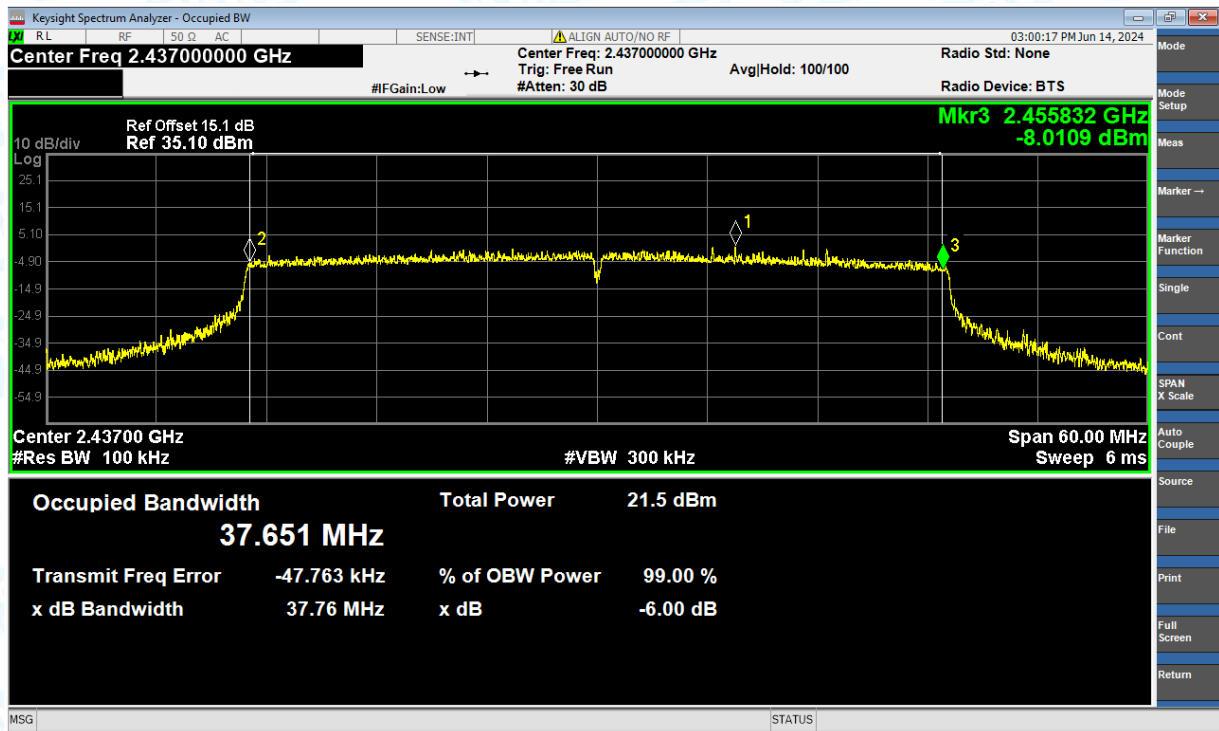
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



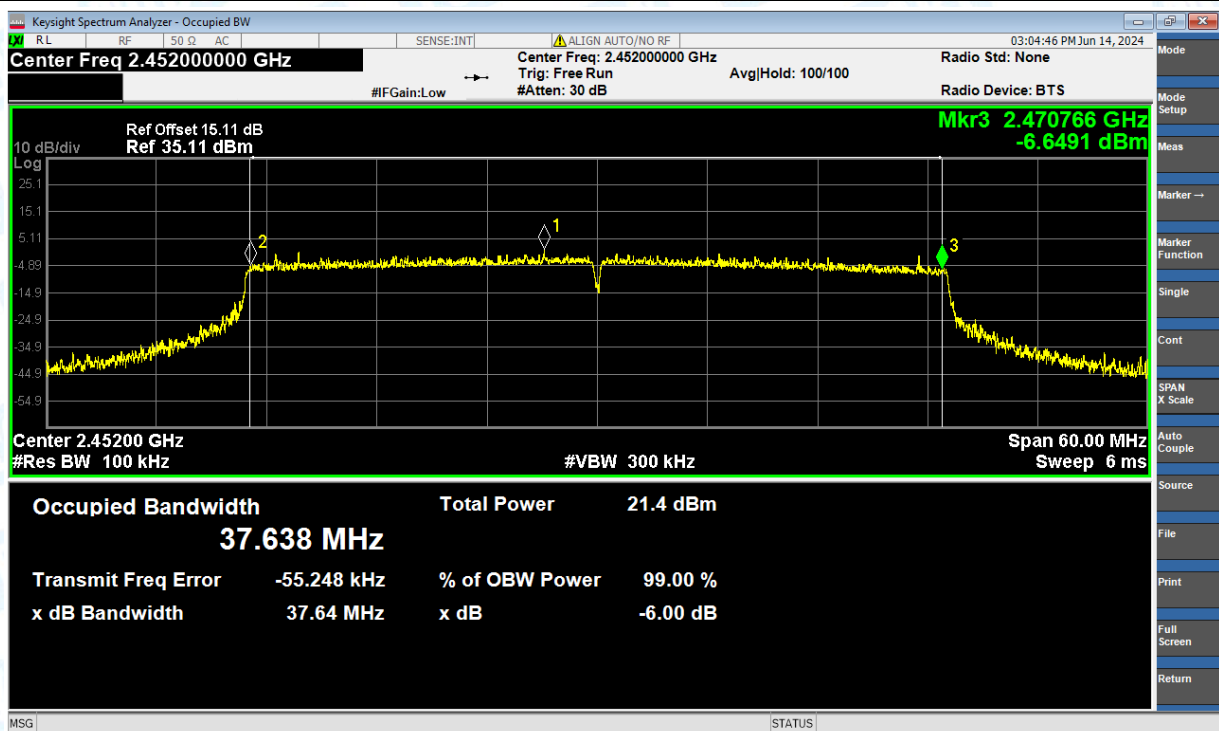
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



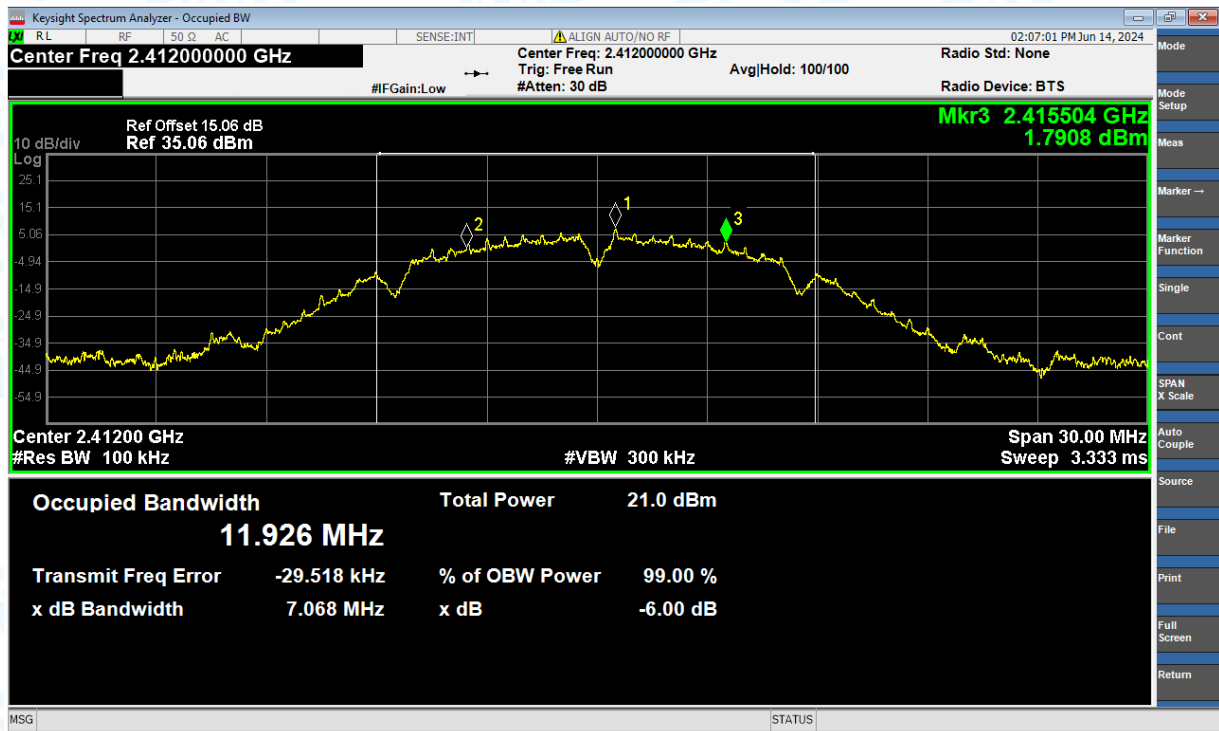
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



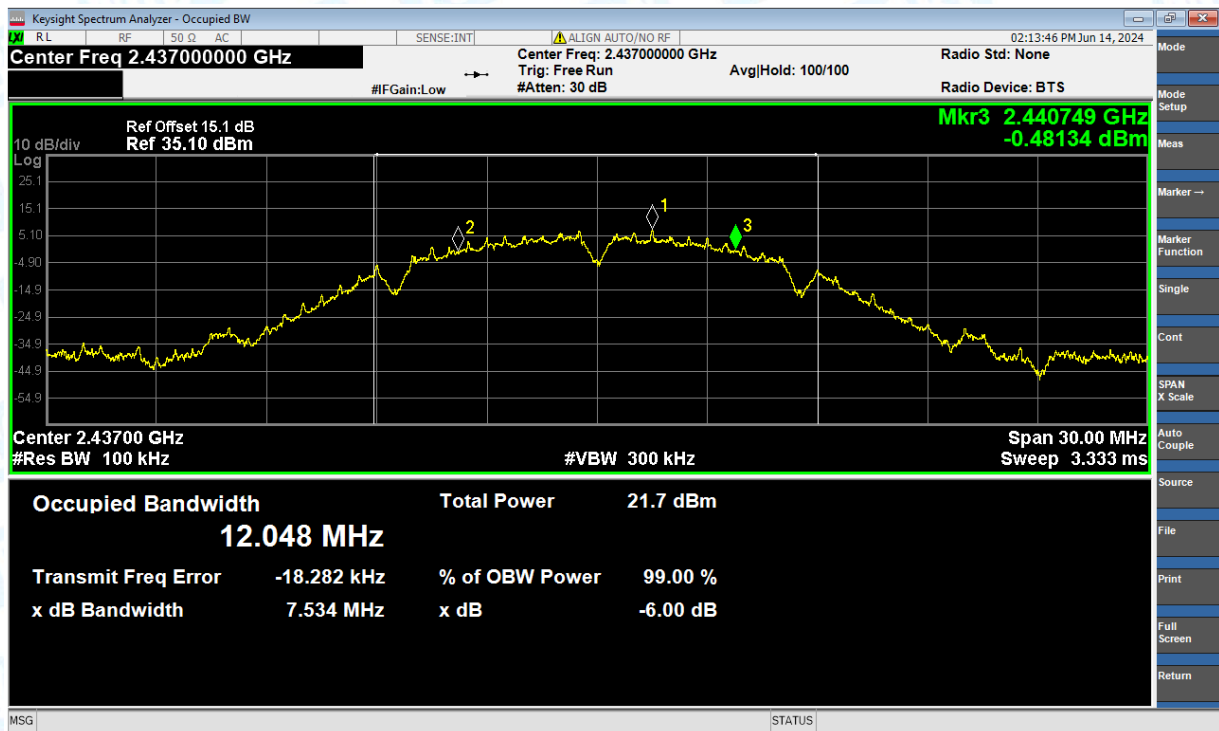
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



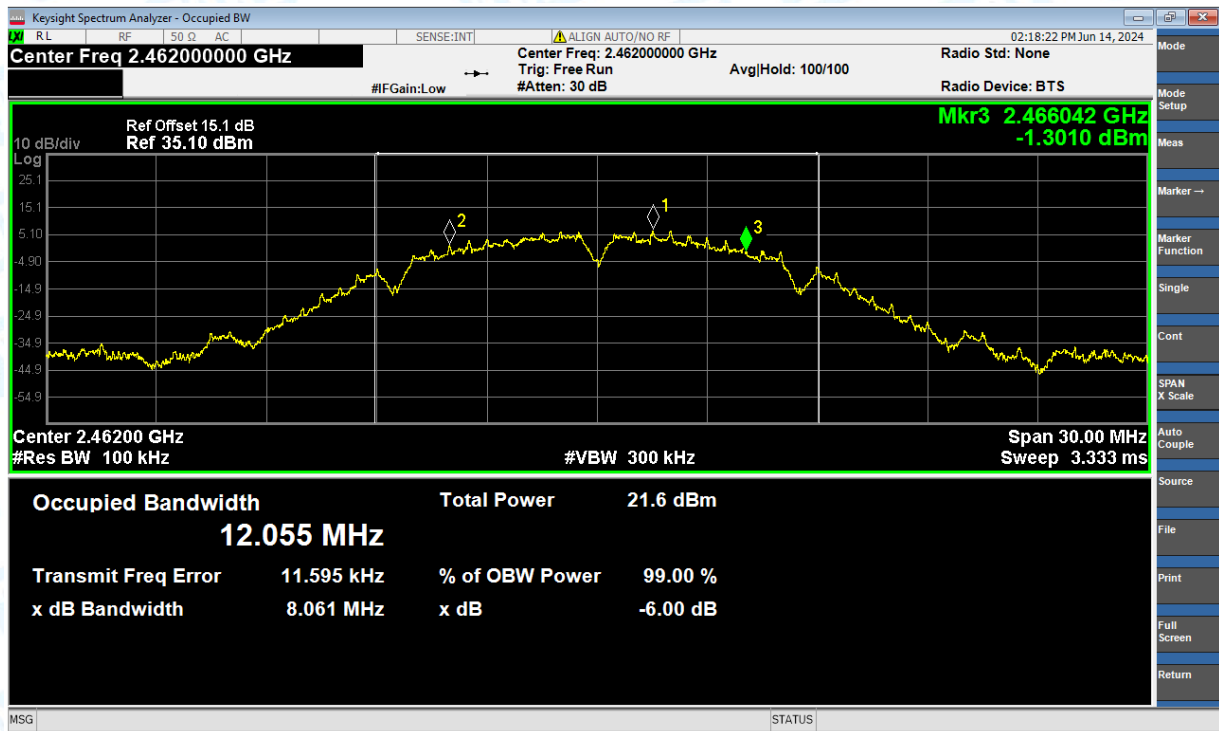
-6dB Bandwidth NVNT b 2412MHz Ant1



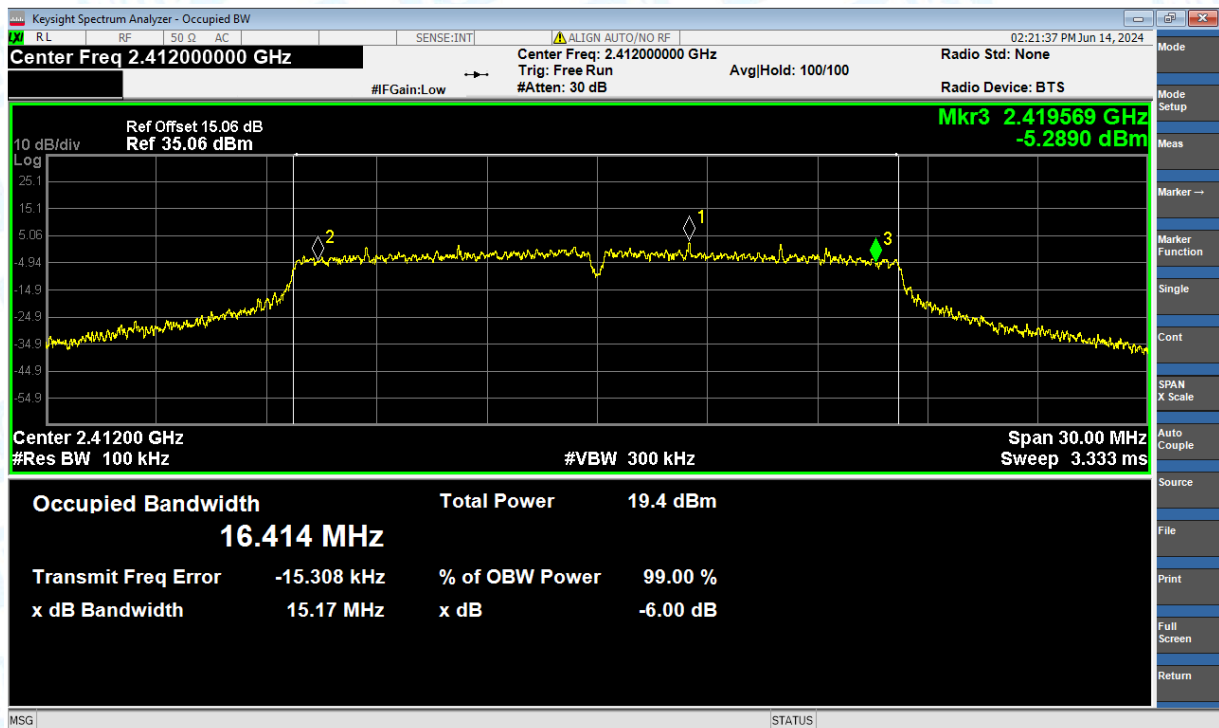
-6dB Bandwidth NVNT b 2437MHz Ant1



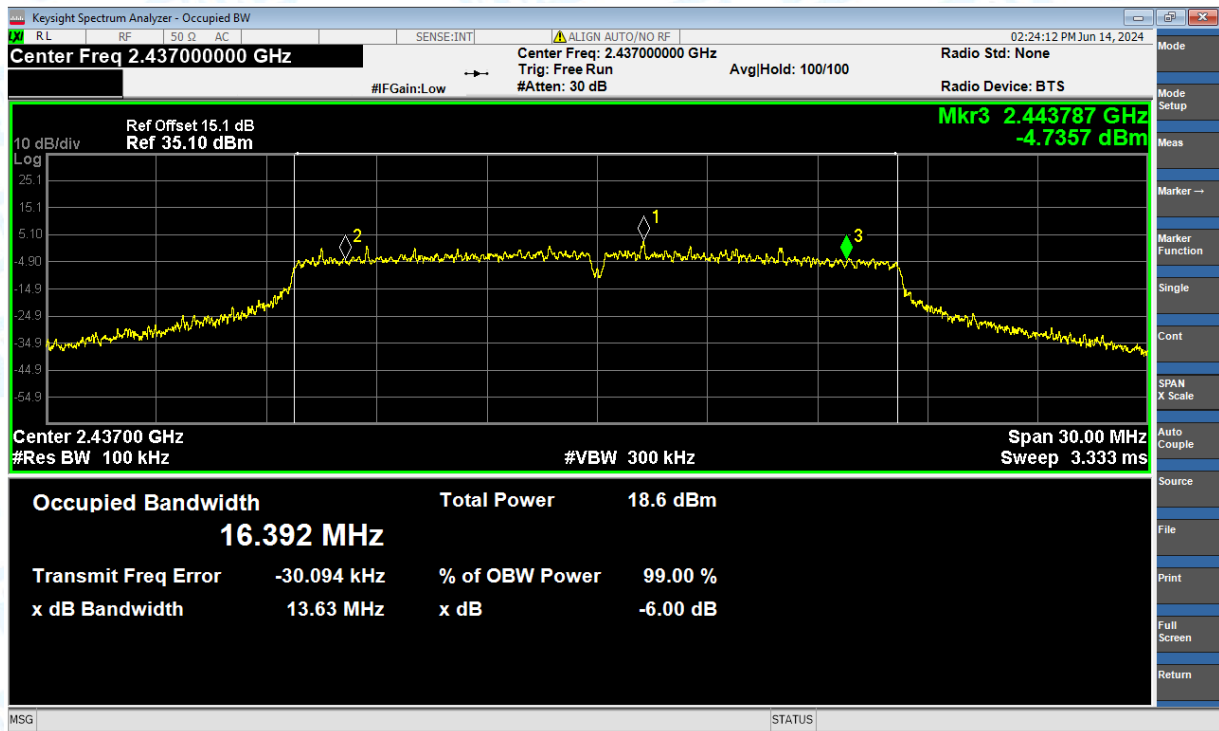
-6dB Bandwidth NVNT b 2462MHz Ant1



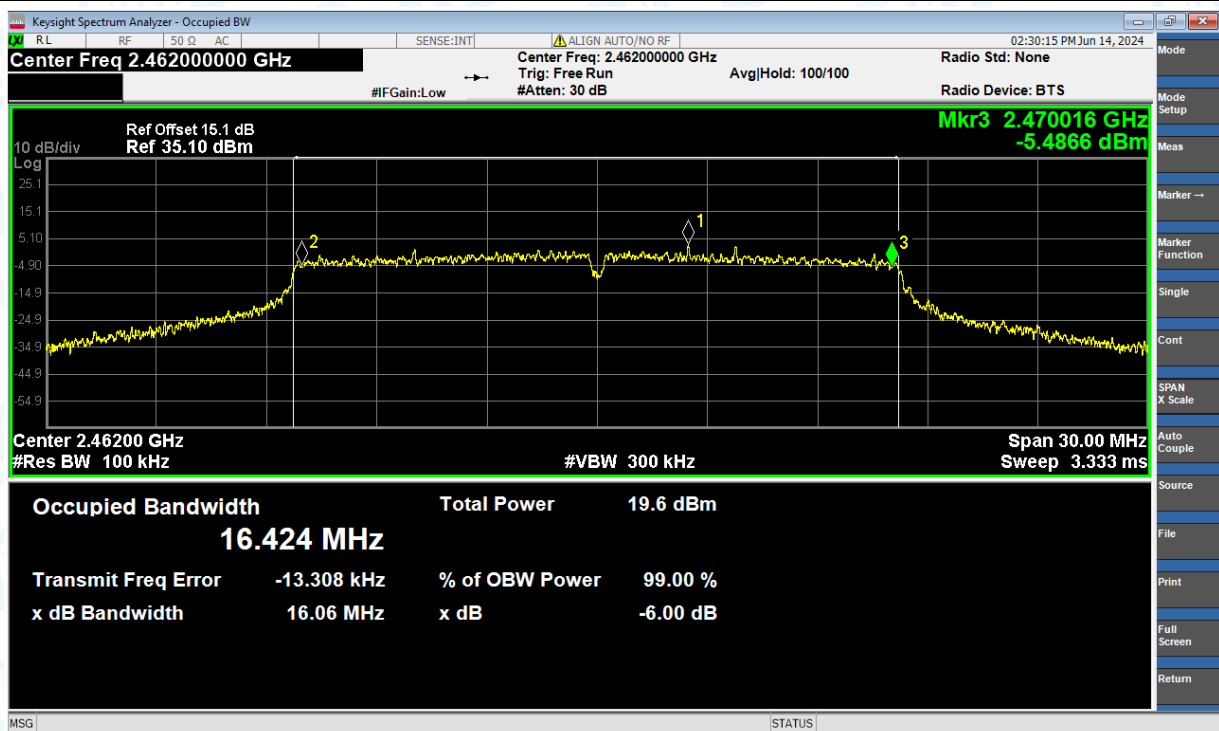
-6dB Bandwidth NVNT g 2412MHz Ant1



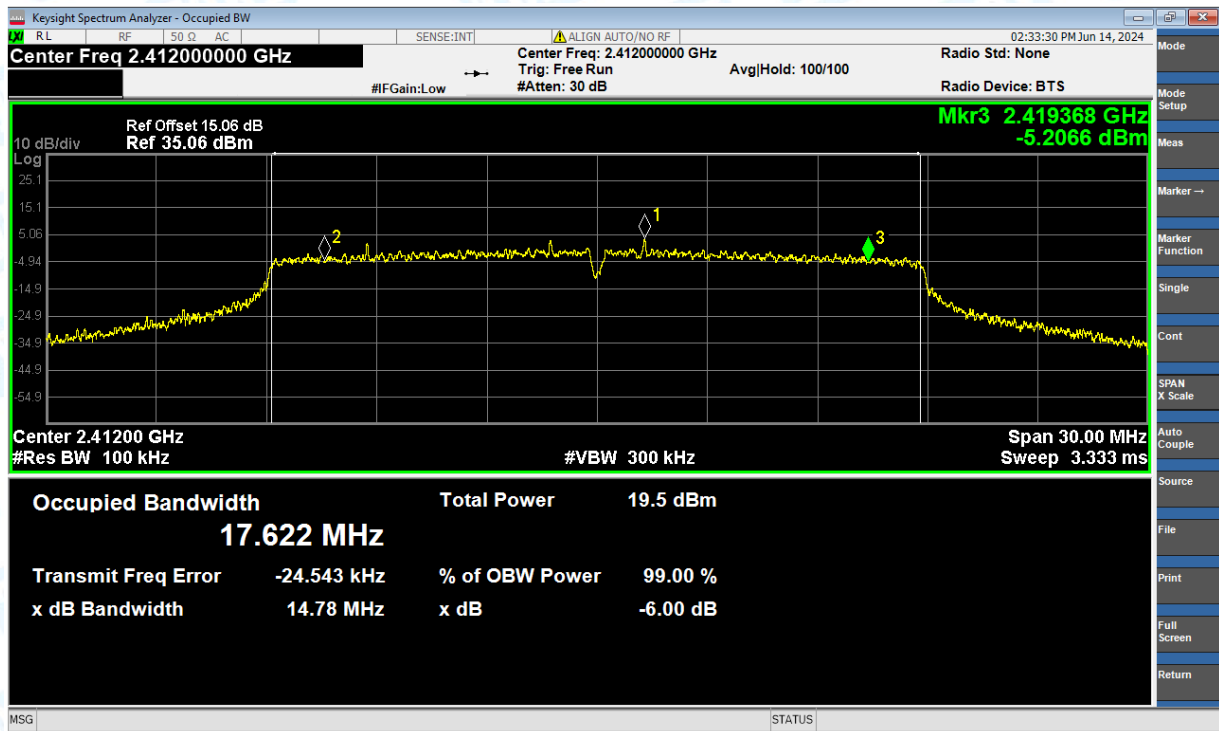
-6dB Bandwidth NVNT g 2437MHz Ant1



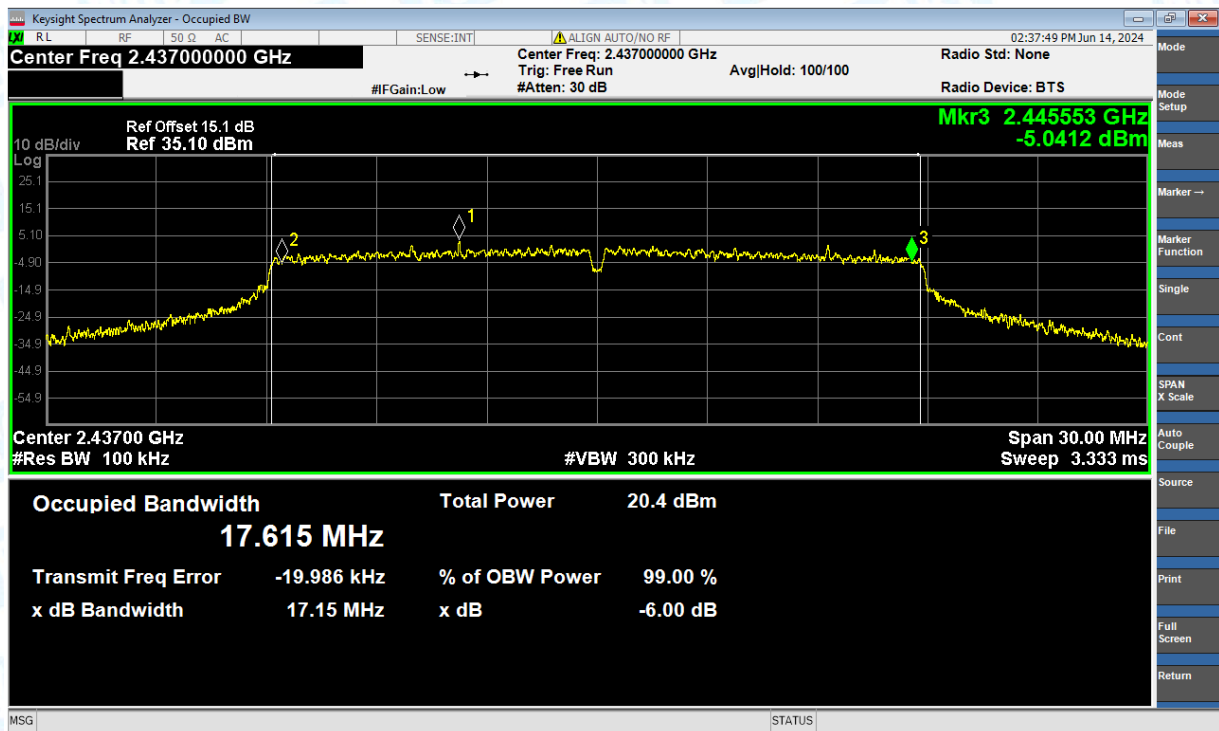
-6dB Bandwidth NVNT g 2462MHz Ant1



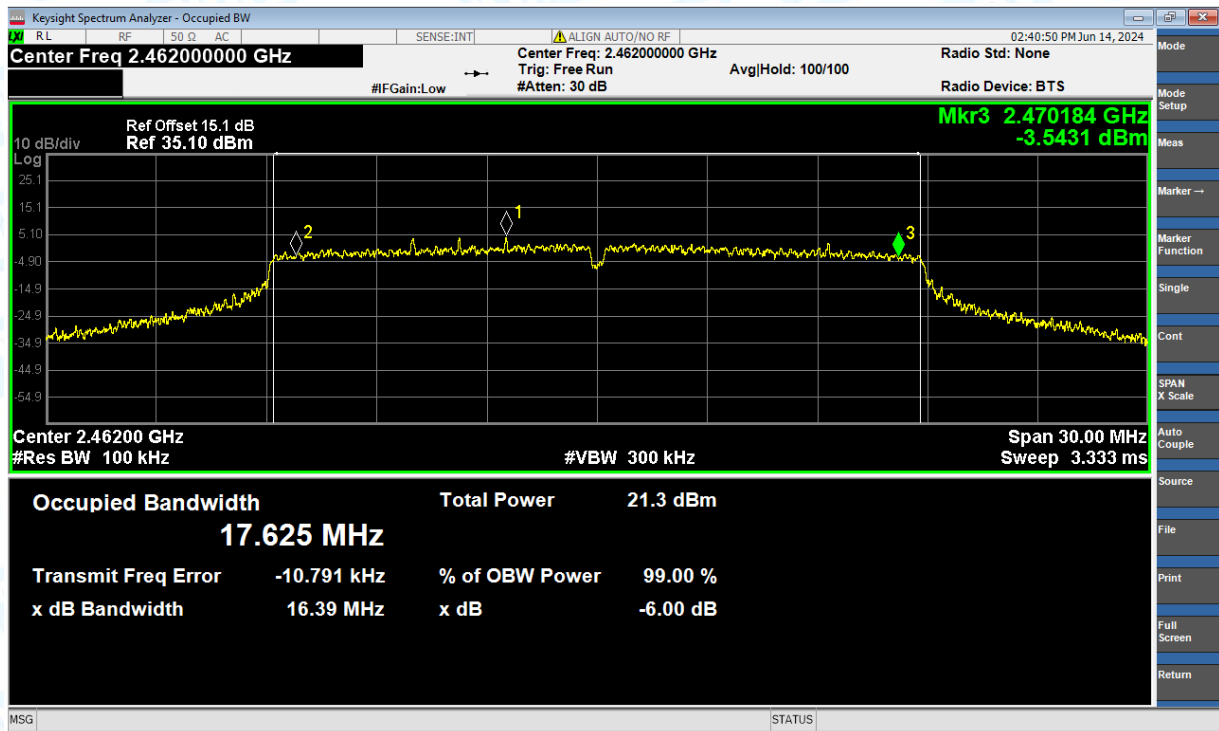
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



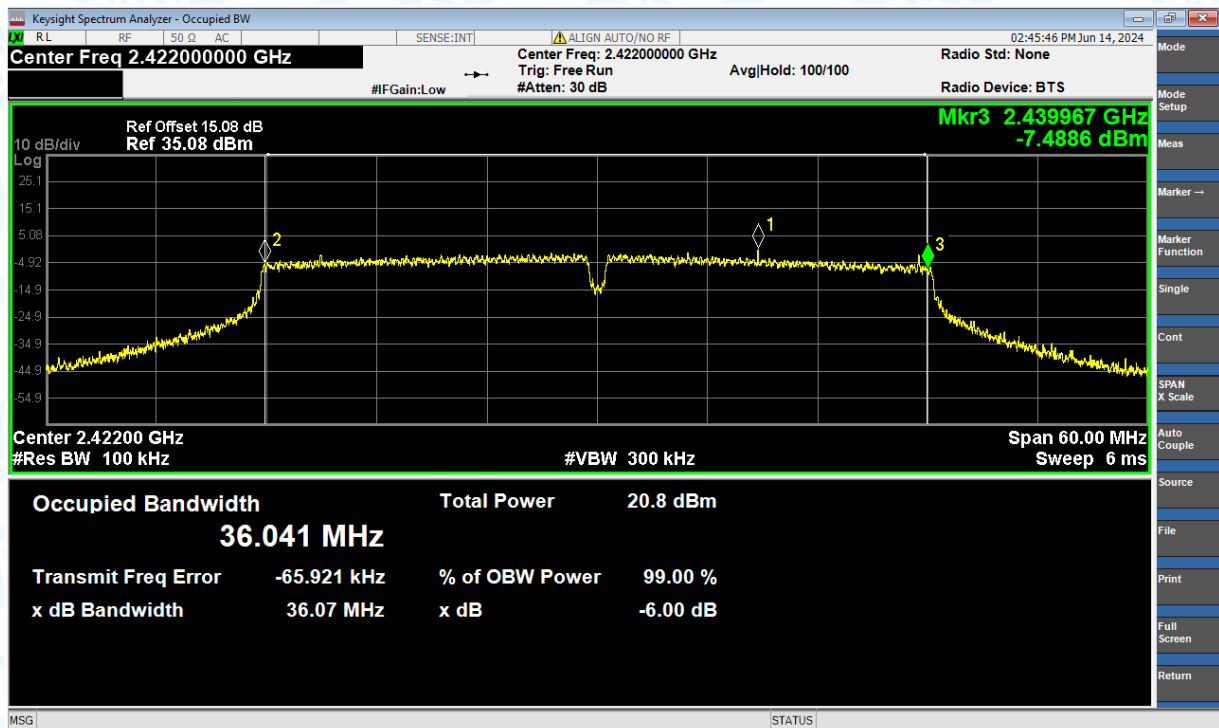
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



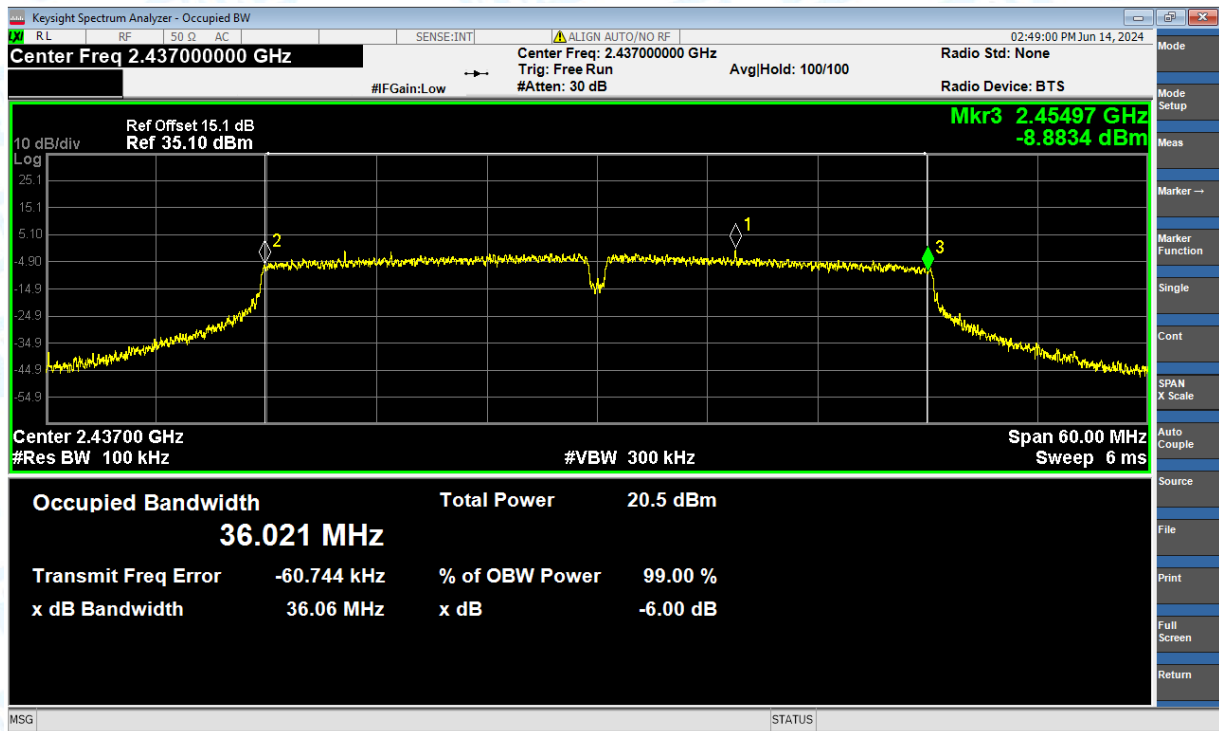
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



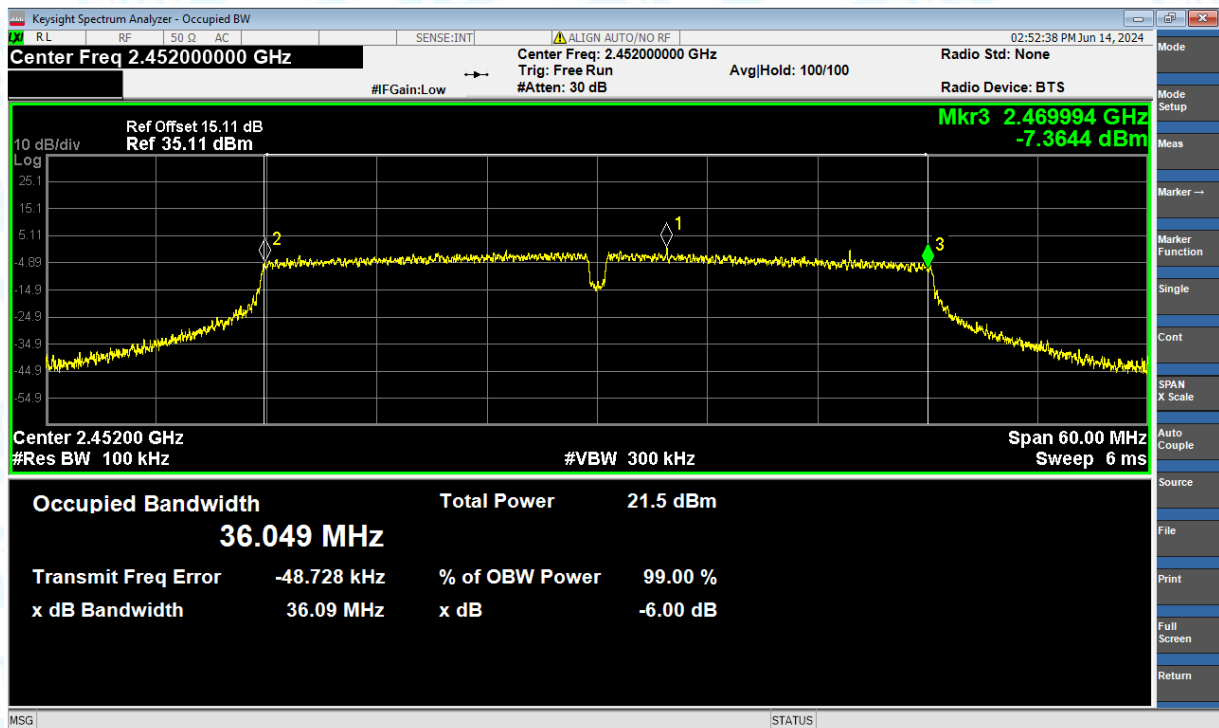
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

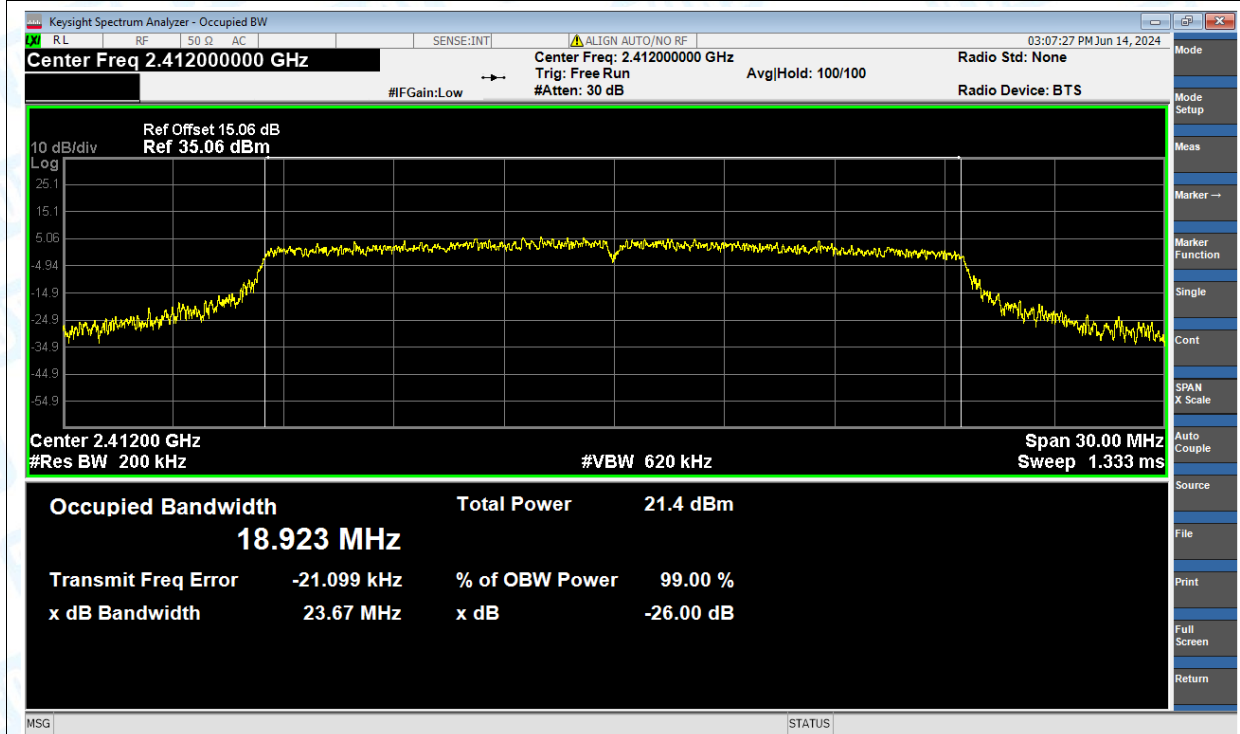


4. Occupied Channel Bandwidth

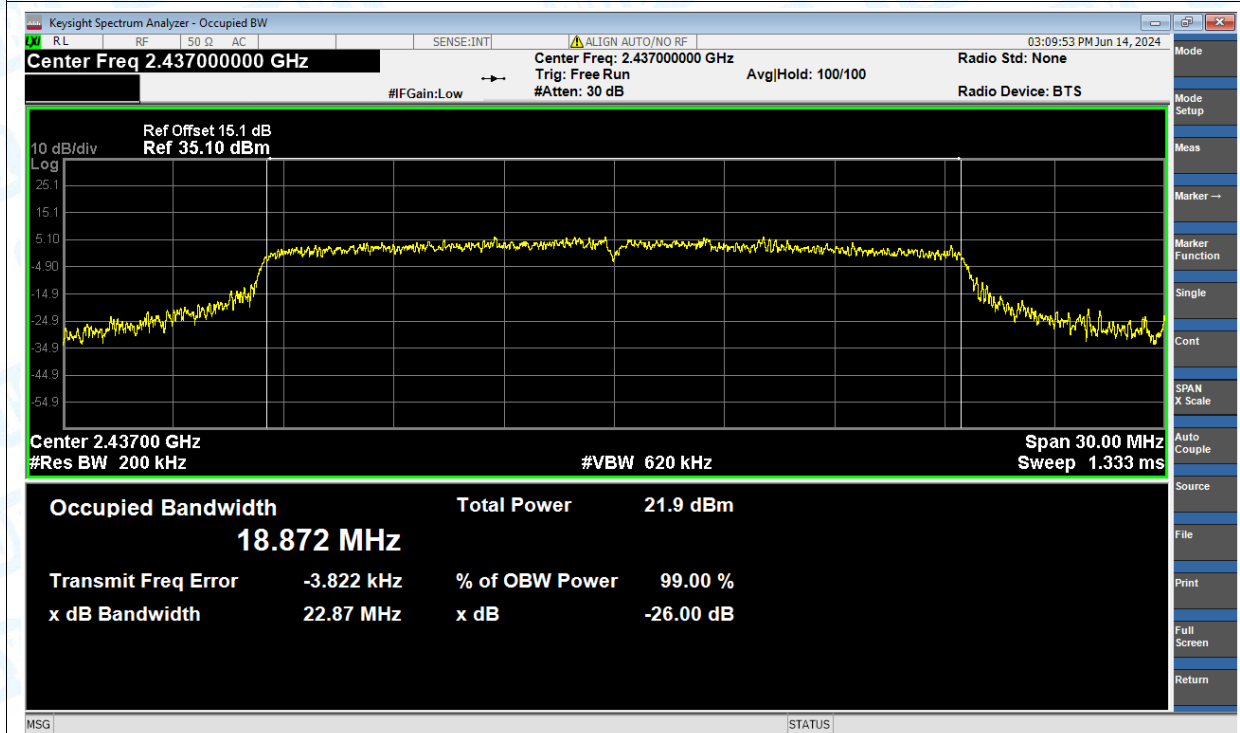
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.923
NVNT	ax(VHT20)	2437	Ant1	18.872
NVNT	ax(VHT20)	2462	Ant1	18.913
NVNT	ax(VHT40)	2422	Ant1	37.612
NVNT	ax(VHT40)	2437	Ant1	37.722
NVNT	ax(VHT40)	2452	Ant1	37.581
NVNT	b	2412	Ant1	11.947
NVNT	b	2437	Ant1	12.039
NVNT	b	2462	Ant1	12.022
NVNT	g	2412	Ant1	16.513
NVNT	g	2437	Ant1	16.528
NVNT	g	2462	Ant1	16.505
NVNT	n(HT20)	2412	Ant1	17.707
NVNT	n(HT20)	2437	Ant1	17.722
NVNT	n(HT20)	2462	Ant1	17.726
NVNT	n(HT40)	2422	Ant1	36.125
NVNT	n(HT40)	2437	Ant1	36.19
NVNT	n(HT40)	2452	Ant1	36.213

Test Graphs

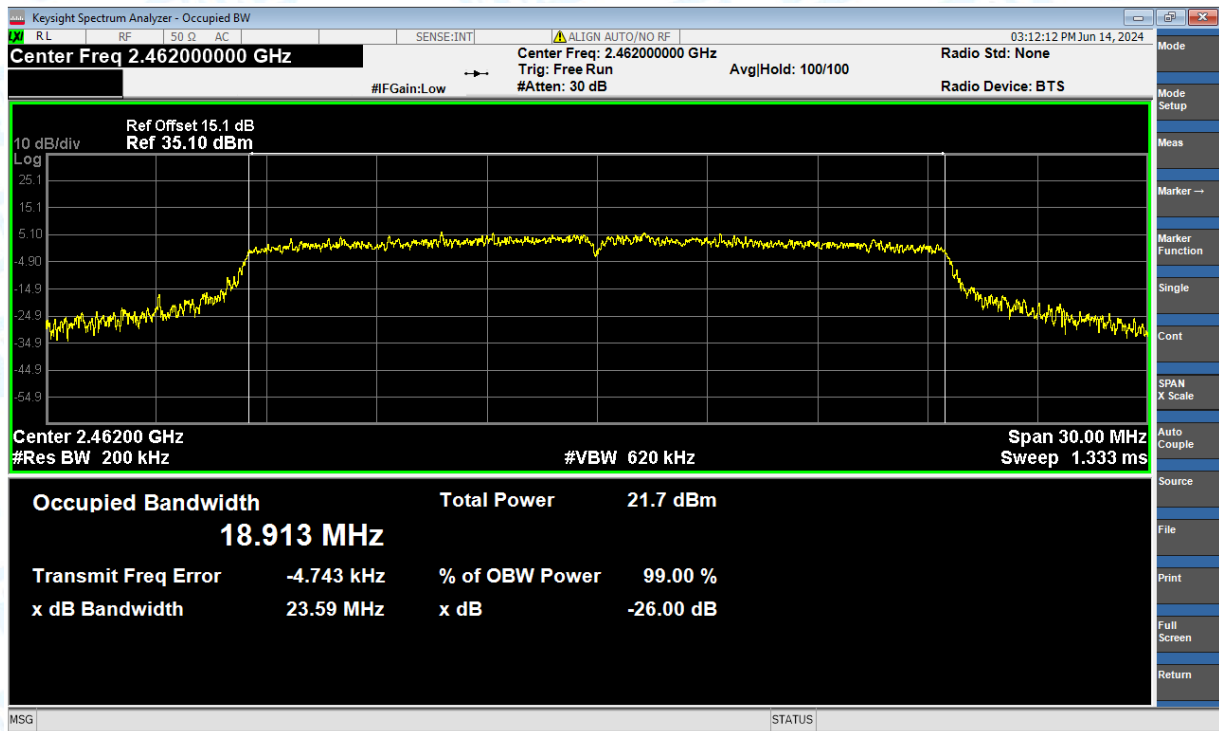
OBW NVNT ax(VHT20) 2412MHz Ant1



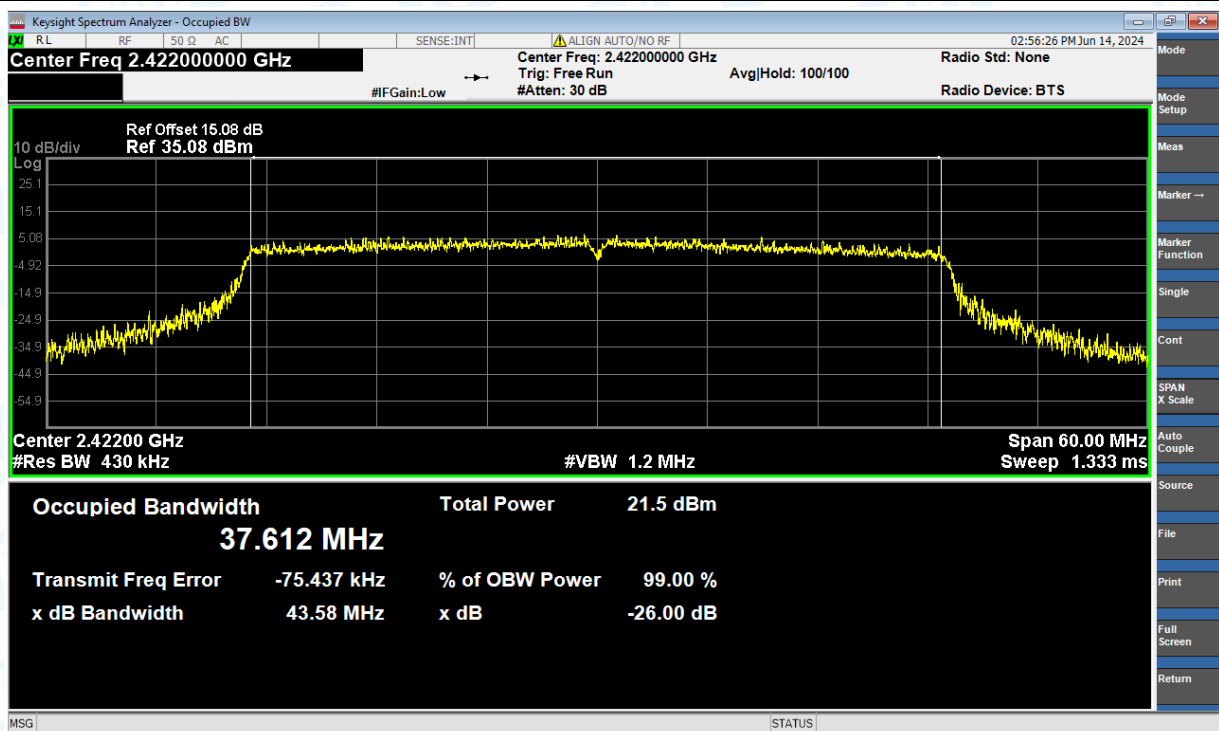
OBW NVNT ax(VHT20) 2437MHz Ant1



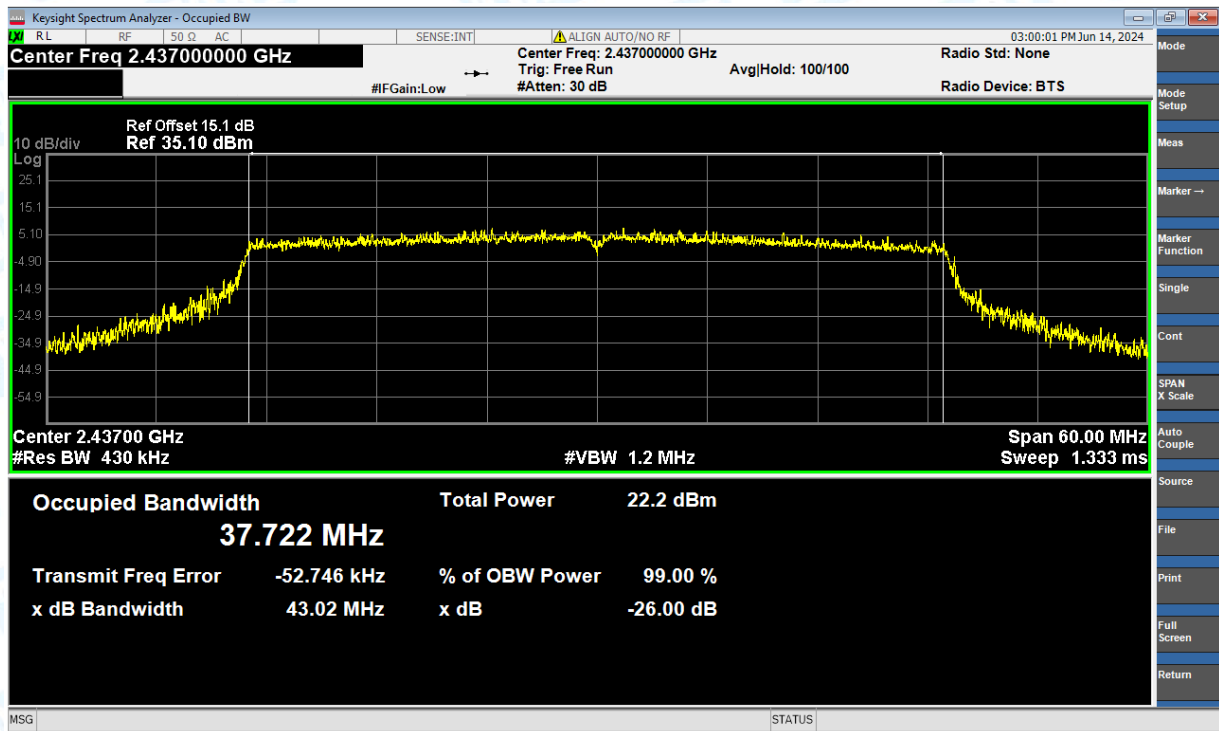
OBW NVNT ax(VHT20) 2462MHz Ant1



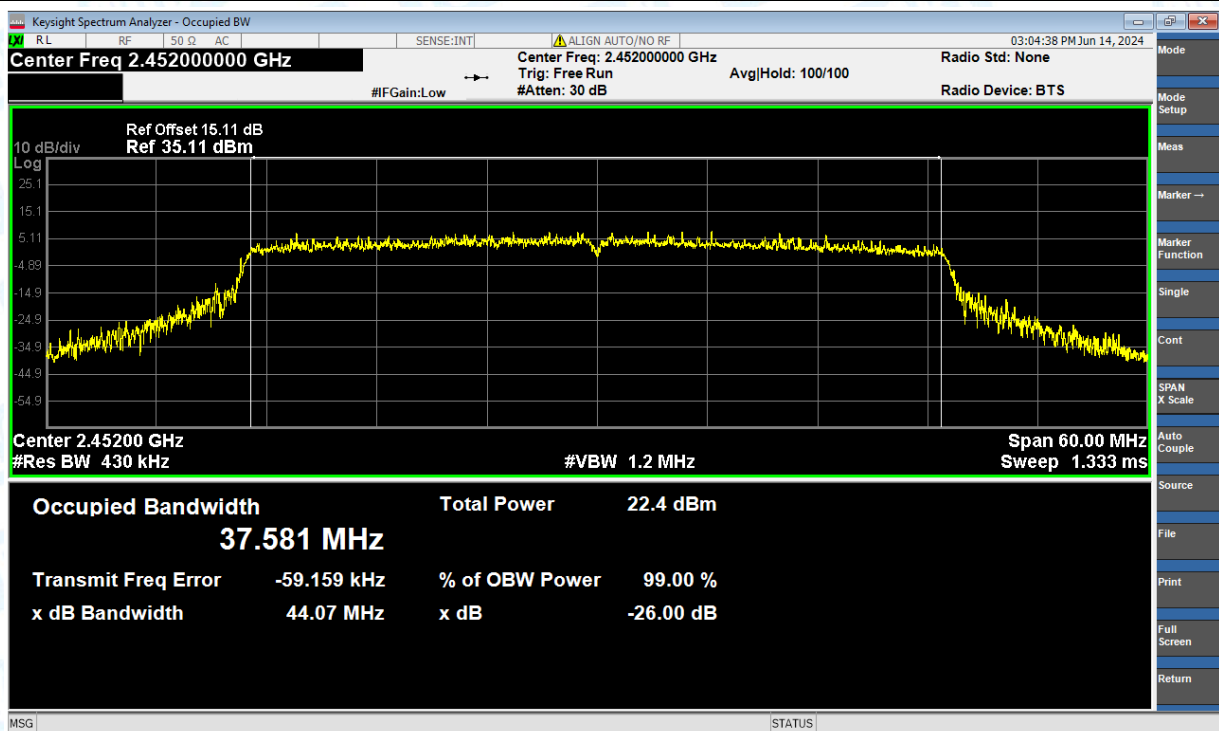
OBW NVNT ax(VHT40) 2422MHz Ant1



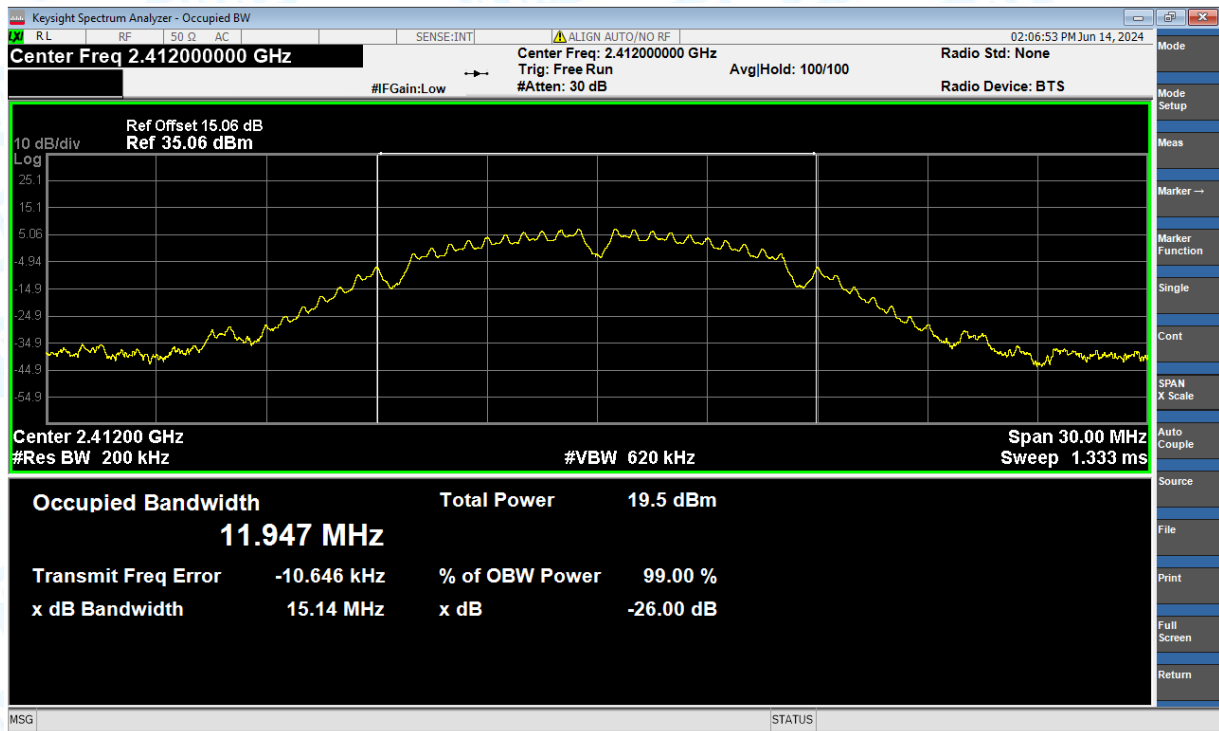
OBW NVNT ax(VHT40) 2437MHz Ant1



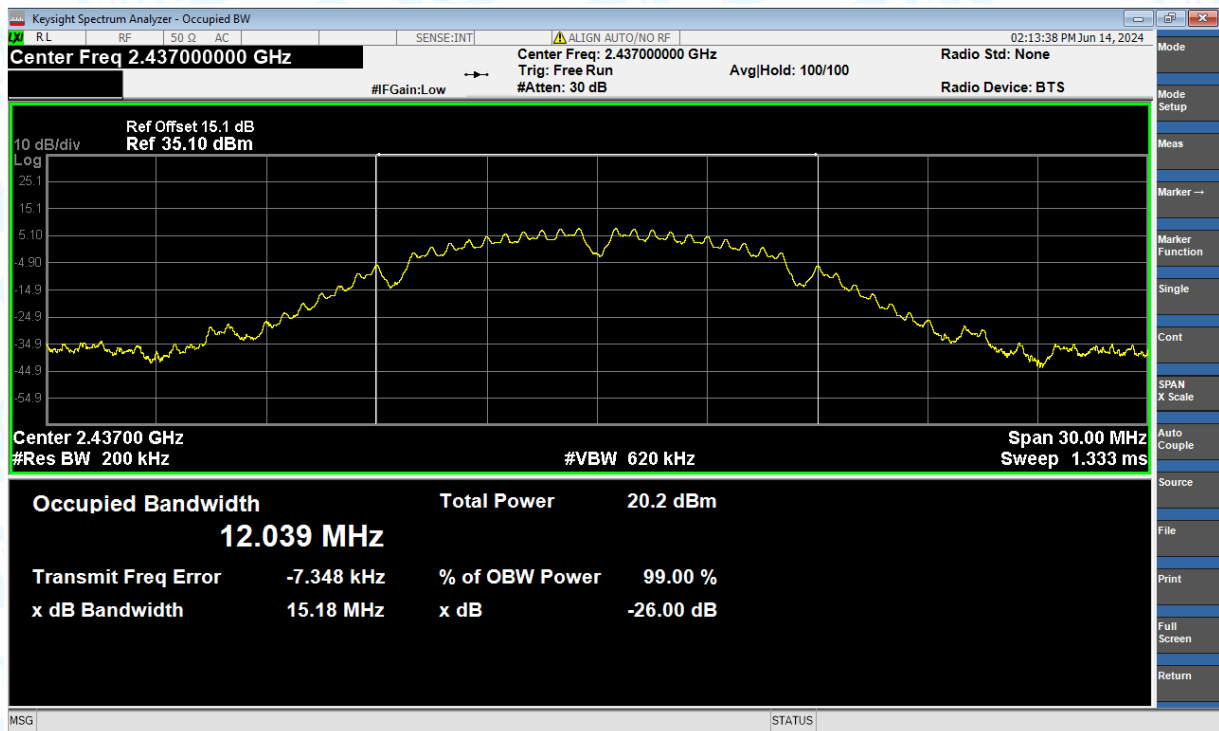
OBW NVNT ax(VHT40) 2452MHz Ant1



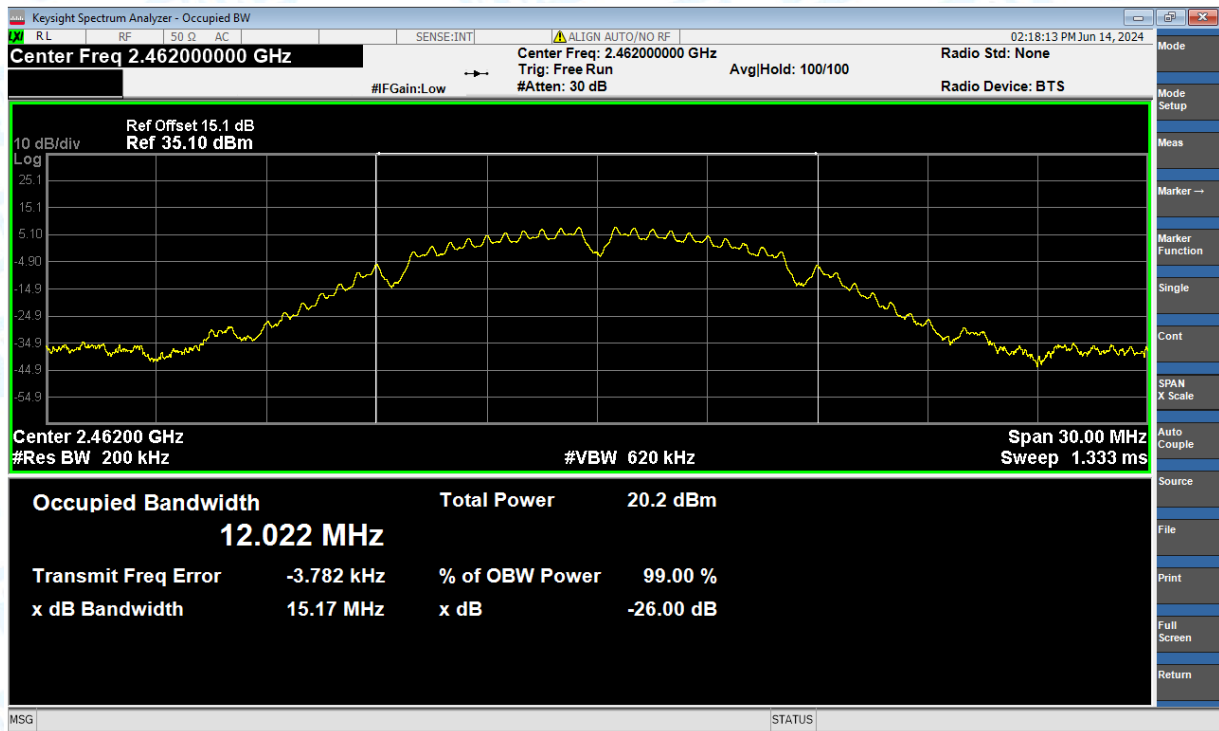
OBW NVNT b 2412MHz Ant1



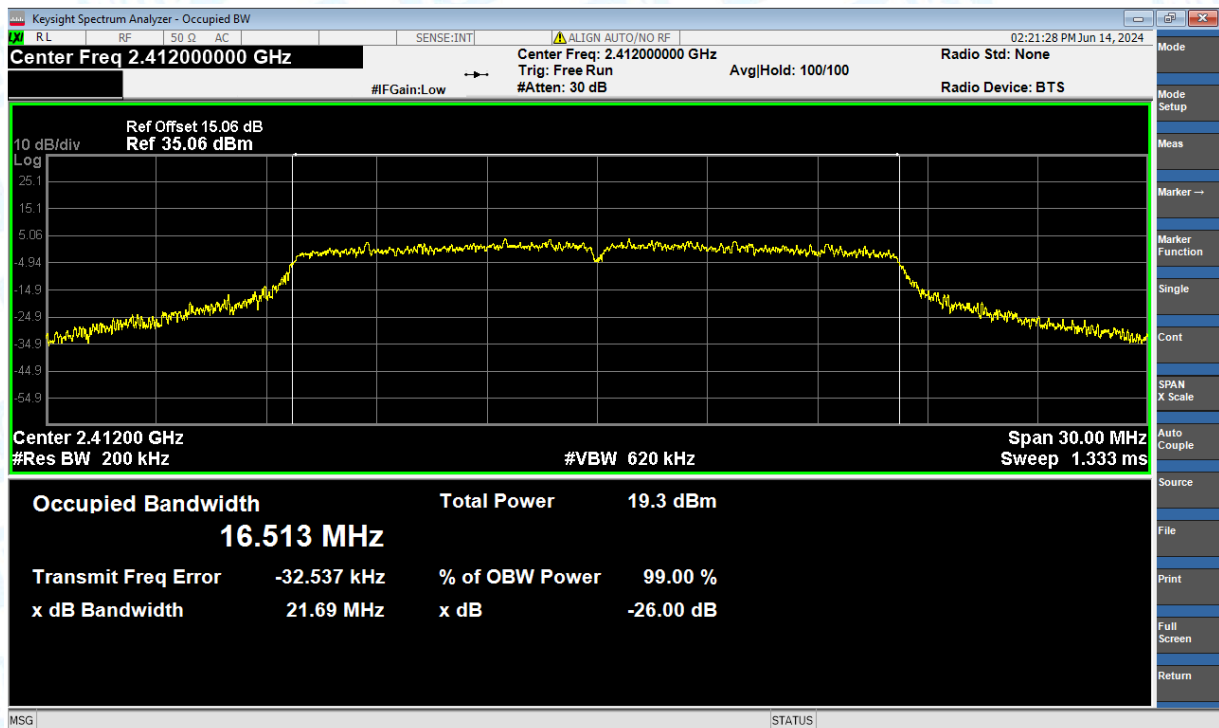
OBW NVNT b 2437MHz Ant1



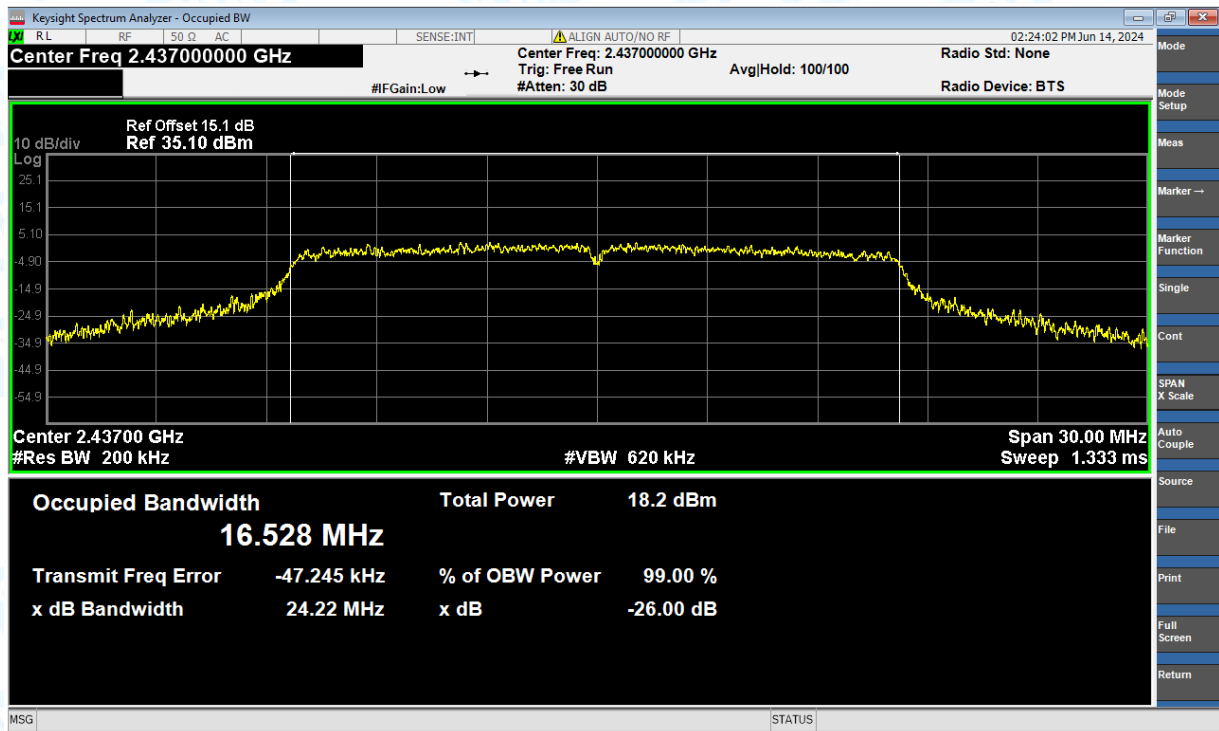
OBW NVNT b 2462MHz Ant1



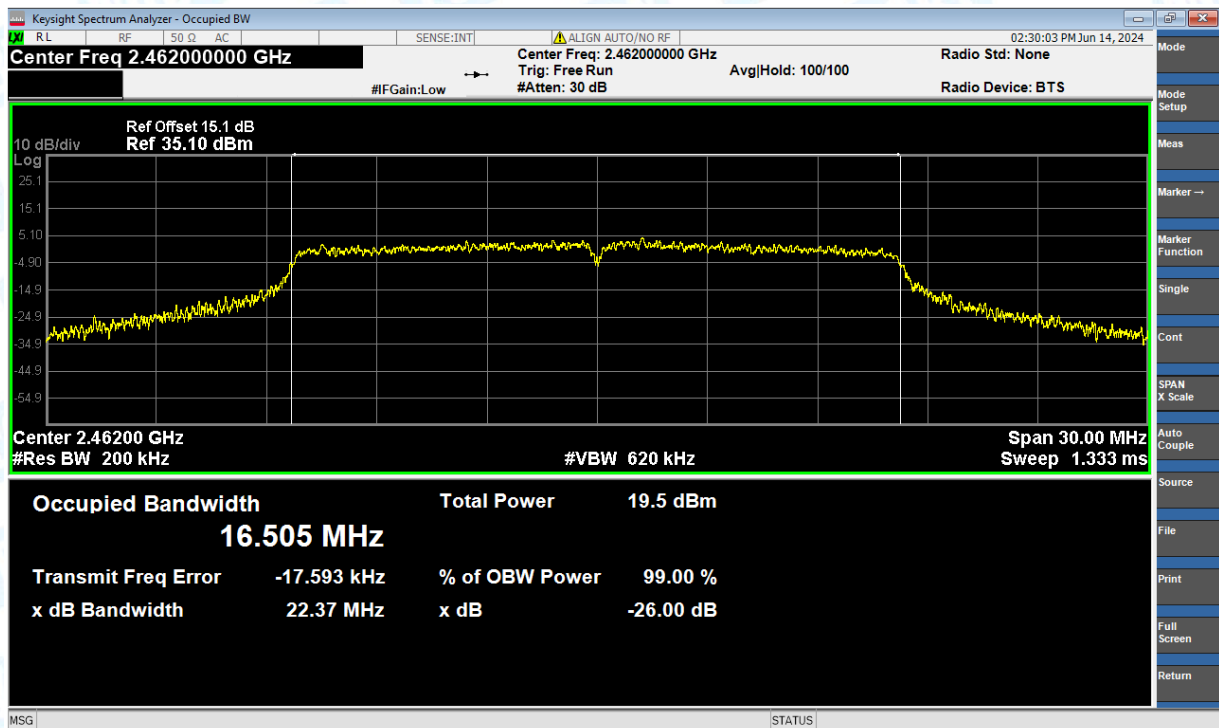
OBW NVNT g 2412MHz Ant1



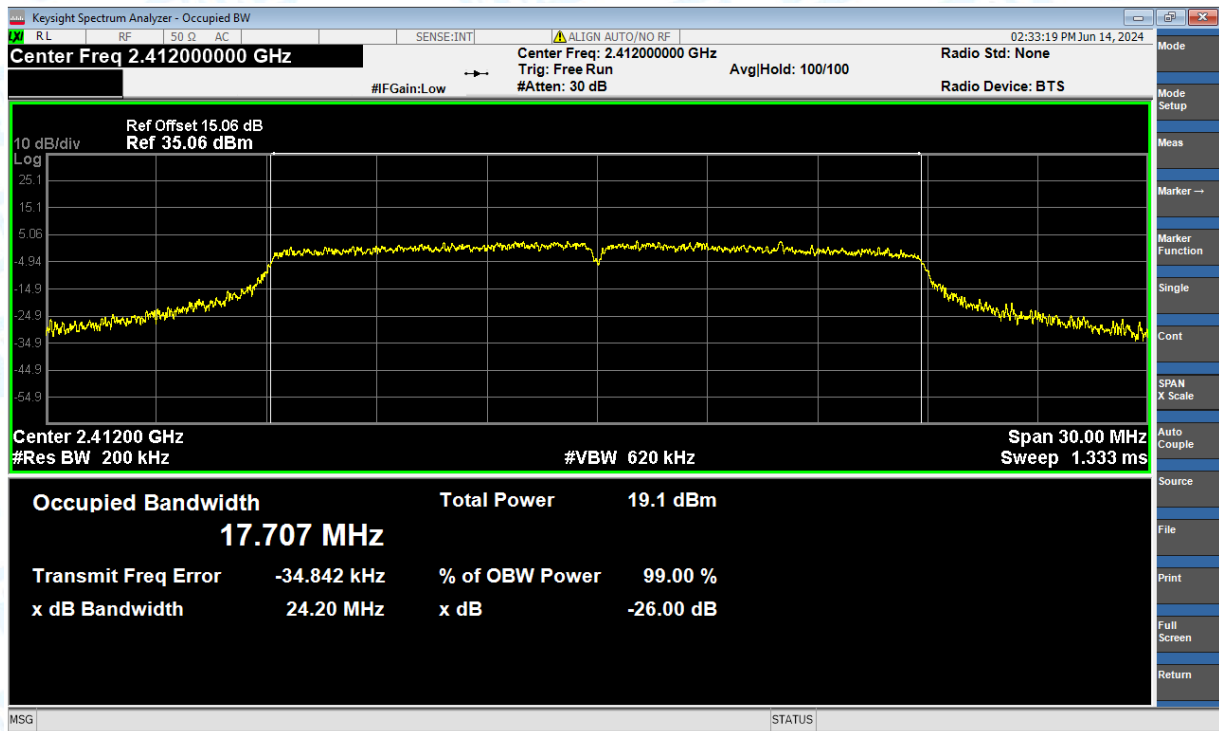
OBW NVNT g 2437MHz Ant1



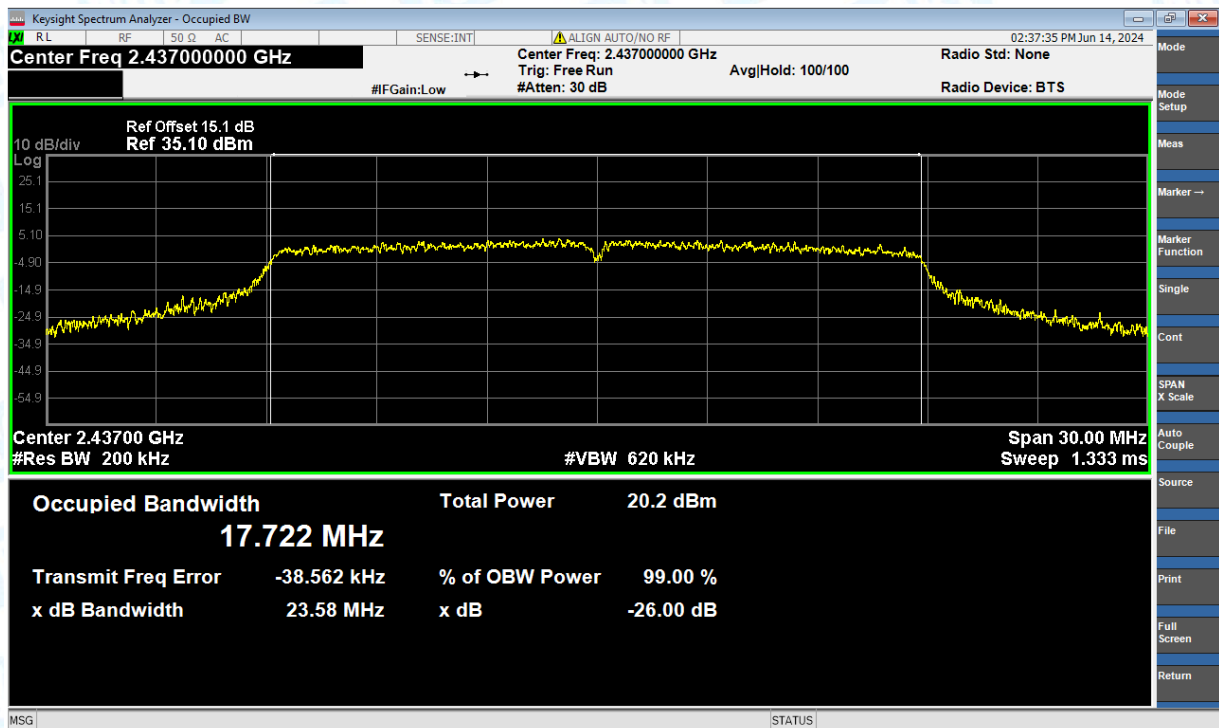
OBW NVNT g 2462MHz Ant1



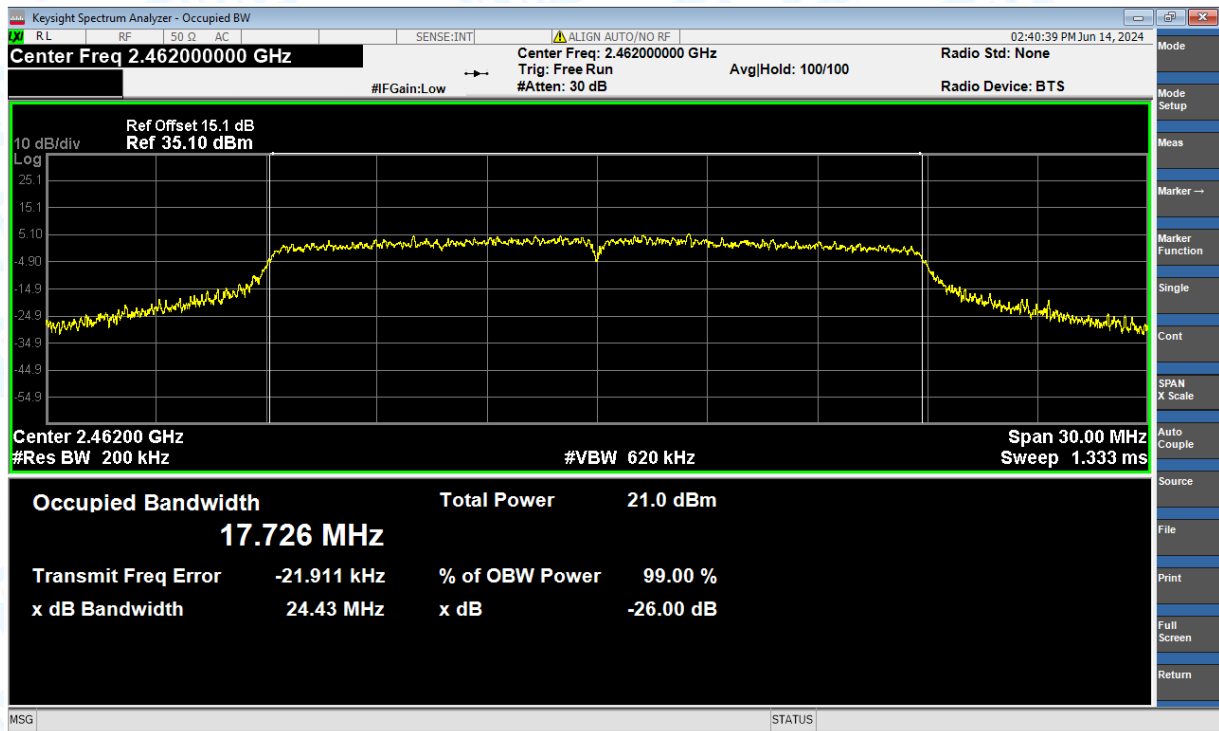
OBW NVNT n(HT20) 2412MHz Ant1



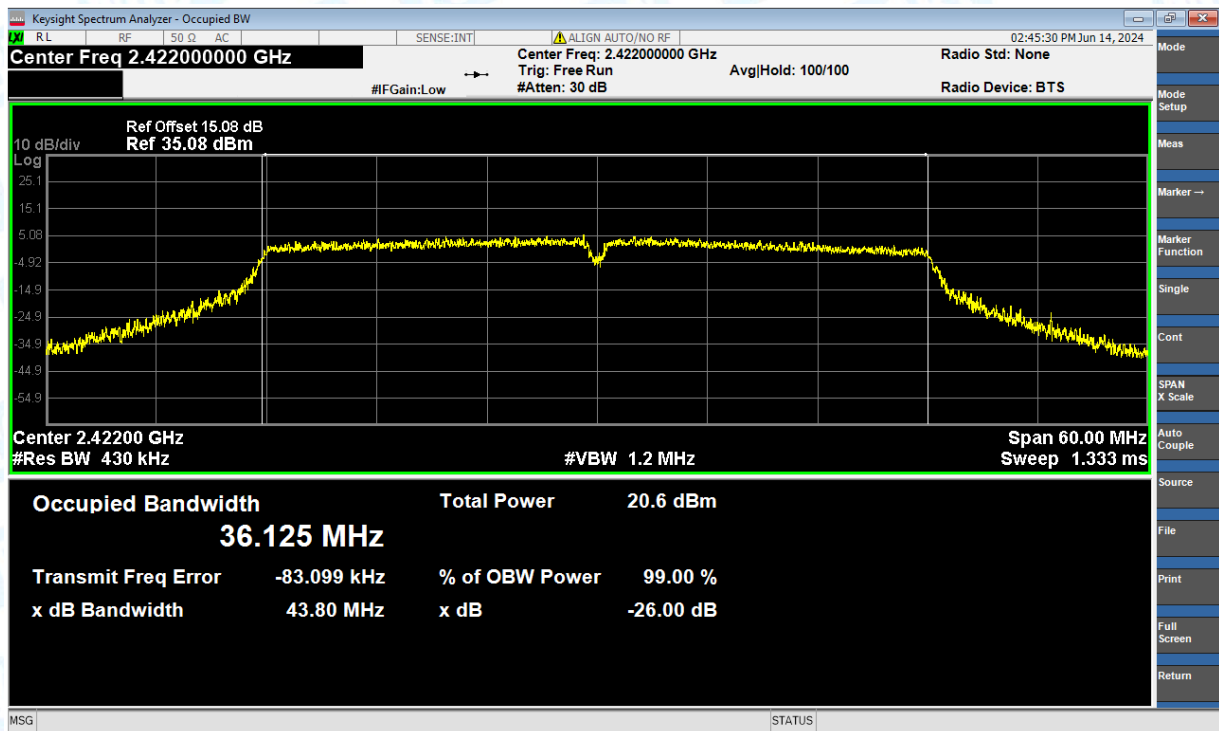
OBW NVNT n(HT20) 2437MHz Ant1



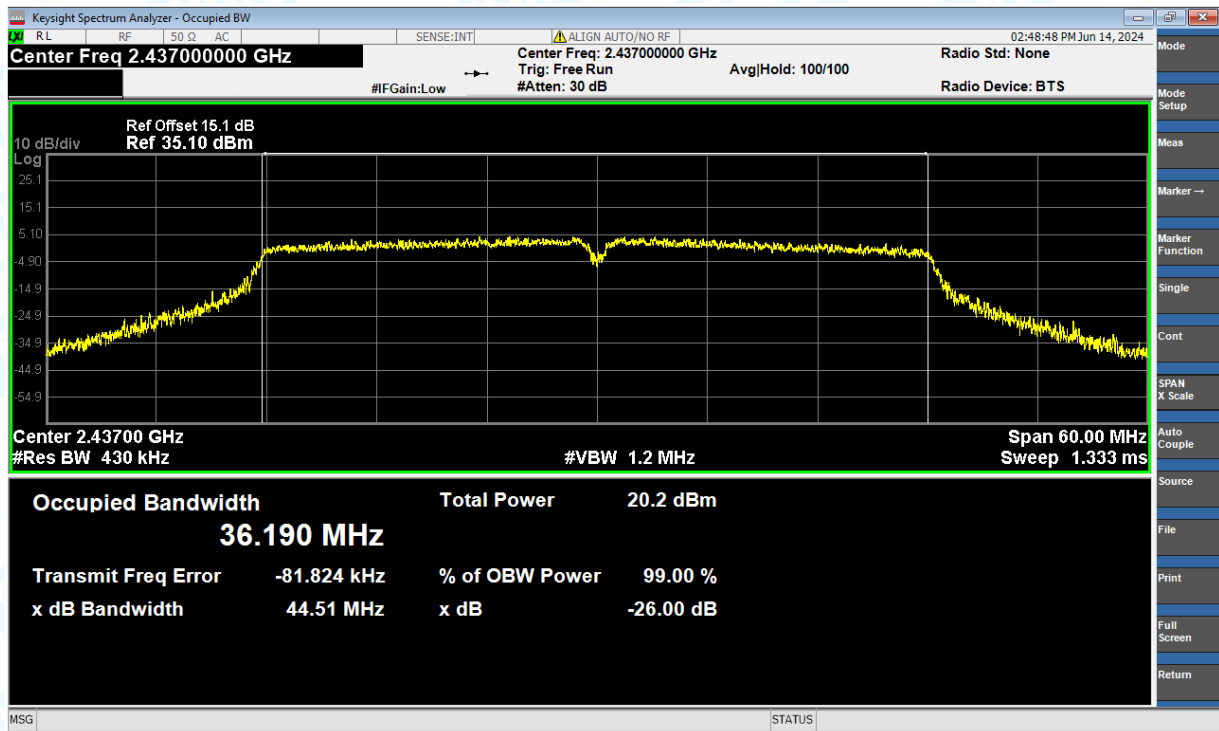
OBW NVNT n(HT20) 2462MHz Ant1



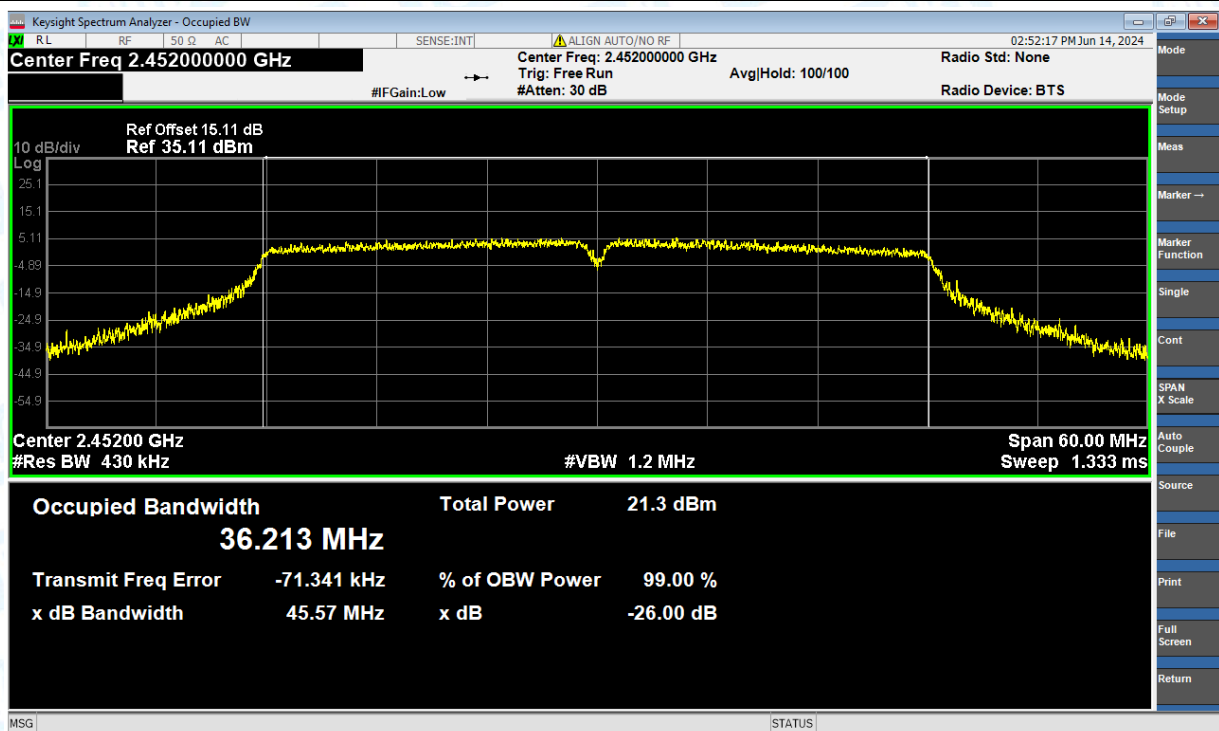
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



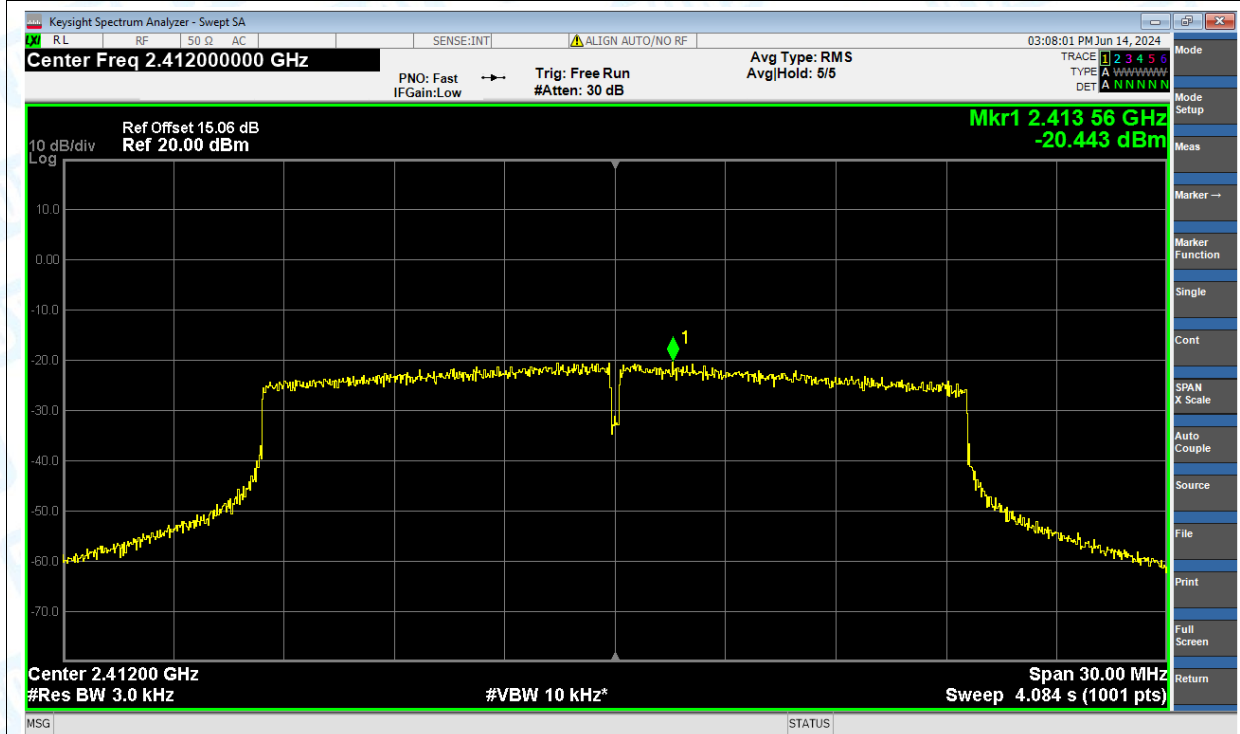
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-20.443	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-19.793	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-20.178	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-24.224	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-23.668	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-23.495	8	Pass
NVNT	b	2412	Ant1	-15.984	8	Pass
NVNT	b	2437	Ant1	-16.348	8	Pass
NVNT	b	2462	Ant1	-16.361	8	Pass
NVNT	g	2412	Ant1	-21.622	8	Pass
NVNT	g	2437	Ant1	-21.85	8	Pass
NVNT	g	2462	Ant1	-21.727	8	Pass
NVNT	n(HT20)	2412	Ant1	-18.561	8	Pass
NVNT	n(HT20)	2437	Ant1	-20.03	8	Pass
NVNT	n(HT20)	2462	Ant1	-19.293	8	Pass
NVNT	n(HT40)	2422	Ant1	-22.827	8	Pass
NVNT	n(HT40)	2437	Ant1	-23.243	8	Pass
NVNT	n(HT40)	2452	Ant1	-22.394	8	Pass

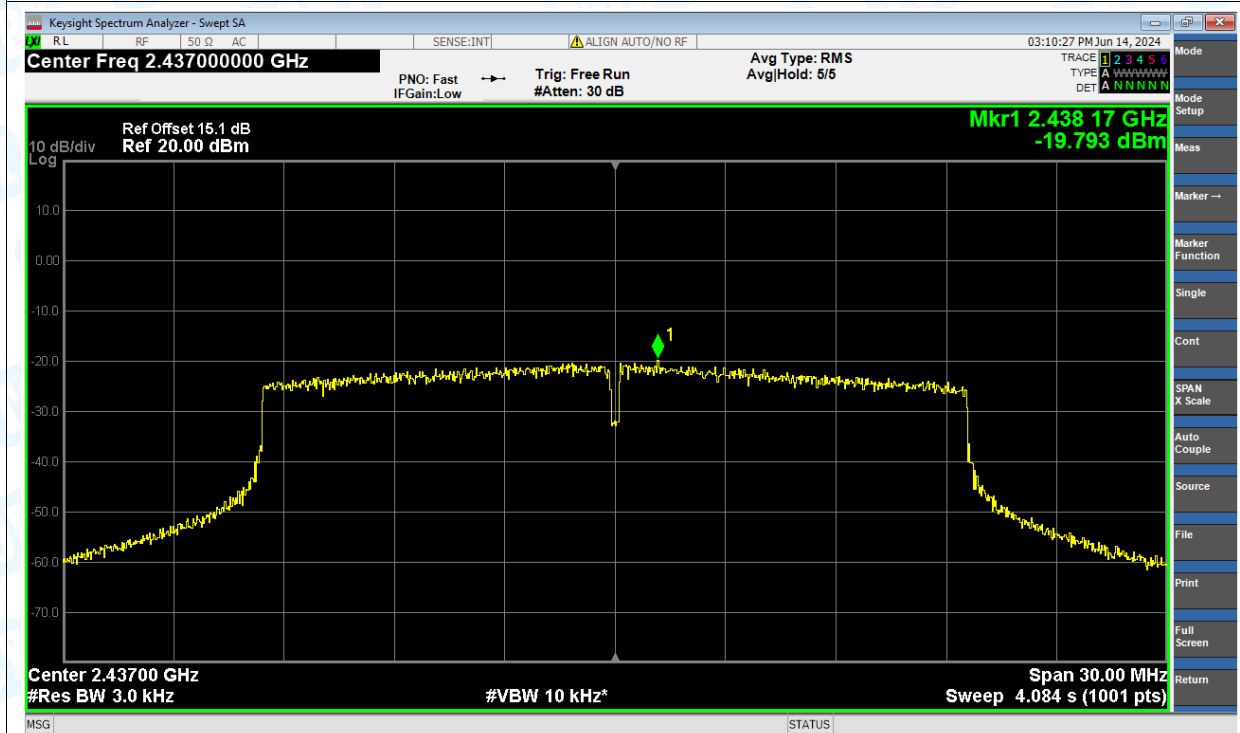
Note: The Duty Cycle Factor is compensated in the graph.

Test Graphs

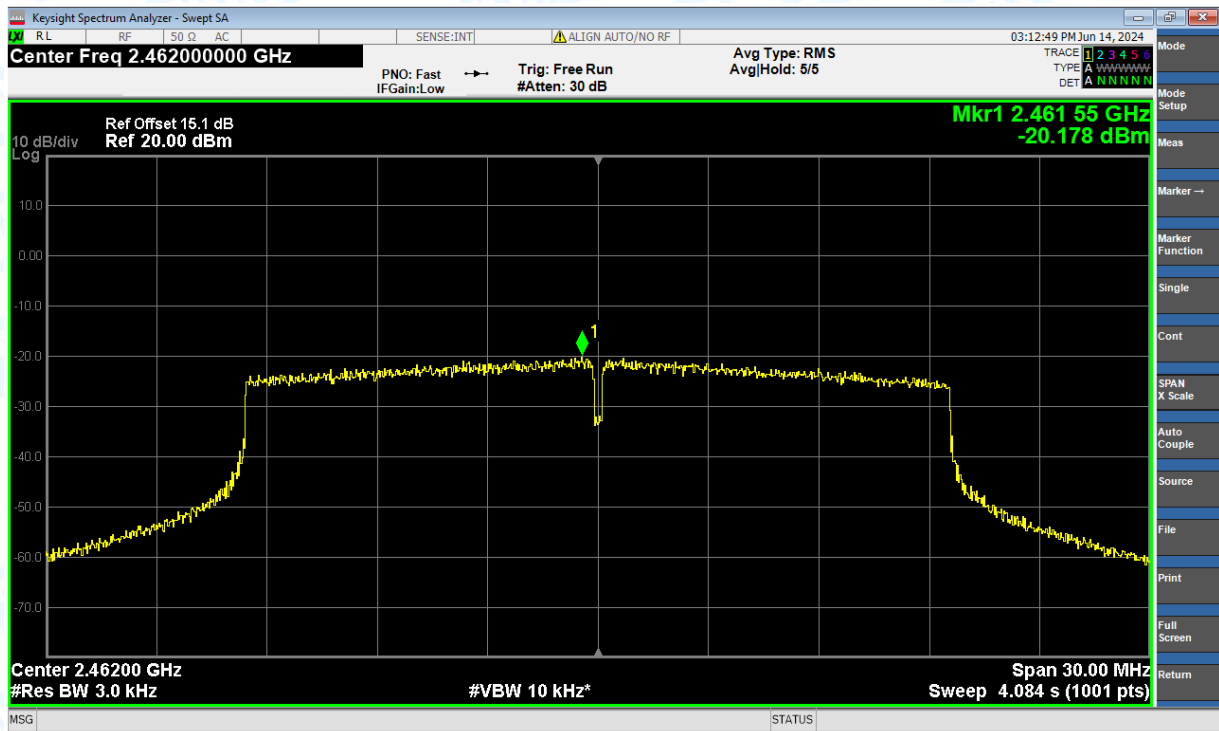
PSD NVNT ax(VHT20) 2412MHz Ant1



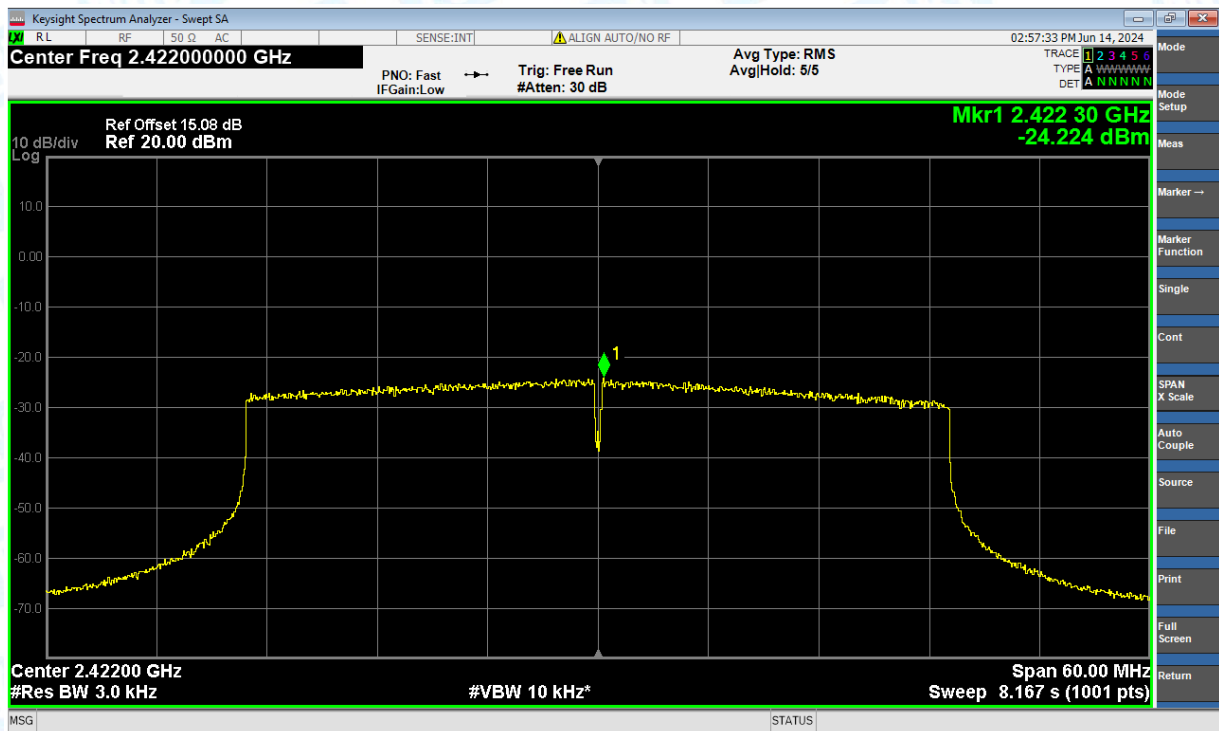
PSD NVNT ax(VHT20) 2437MHz Ant1



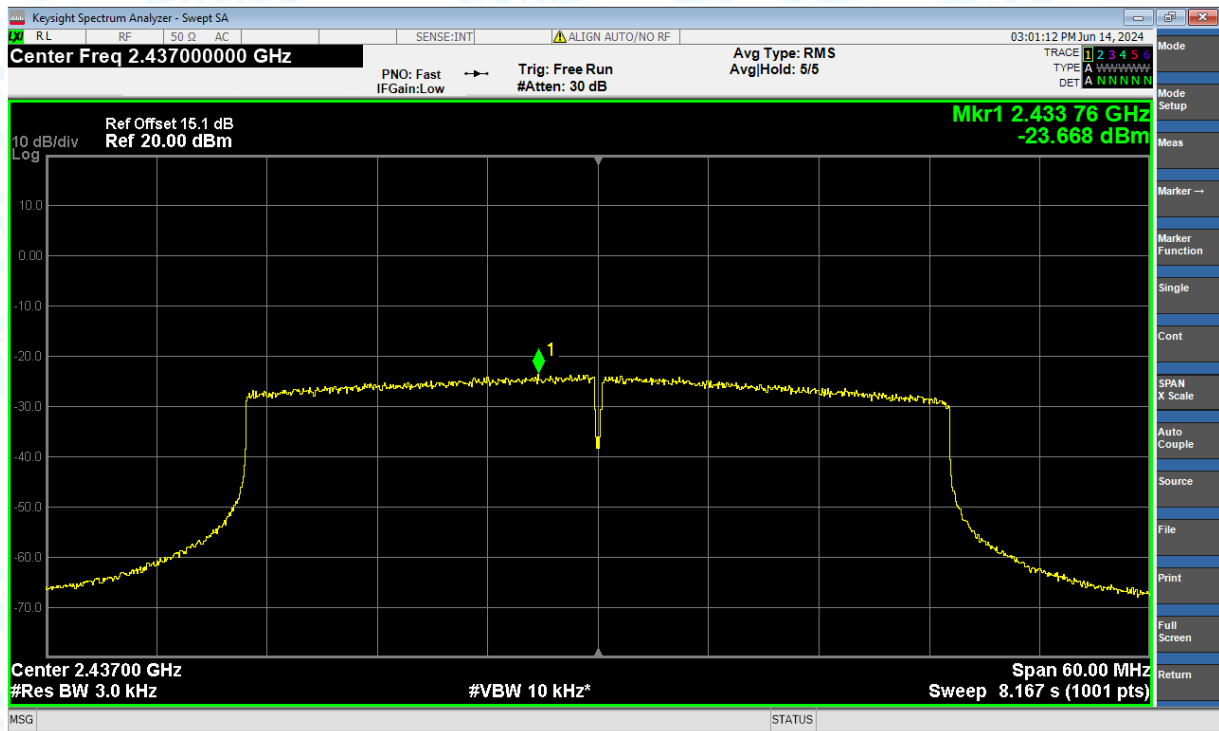
PSD NVNT ax(VHT20) 2462MHz Ant1



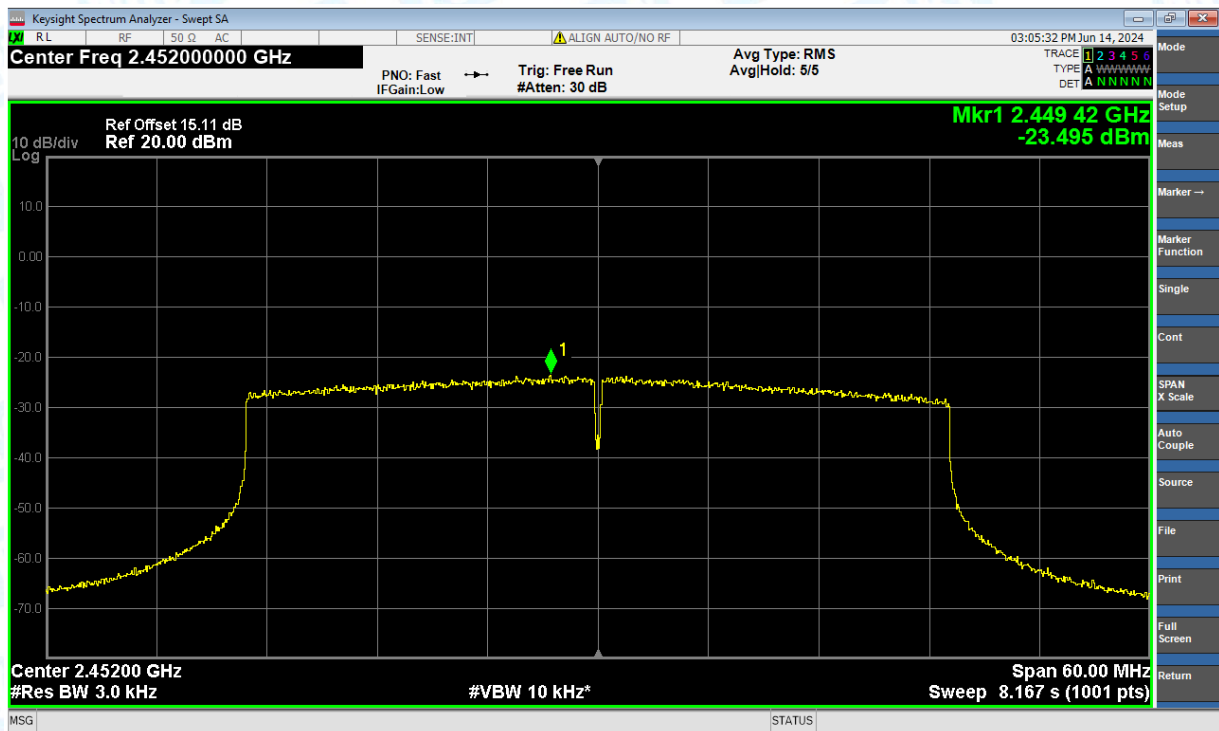
PSD NVNT ax(VHT40) 2422MHz Ant1



PSD NVNT ax(VHT40) 2437MHz Ant1



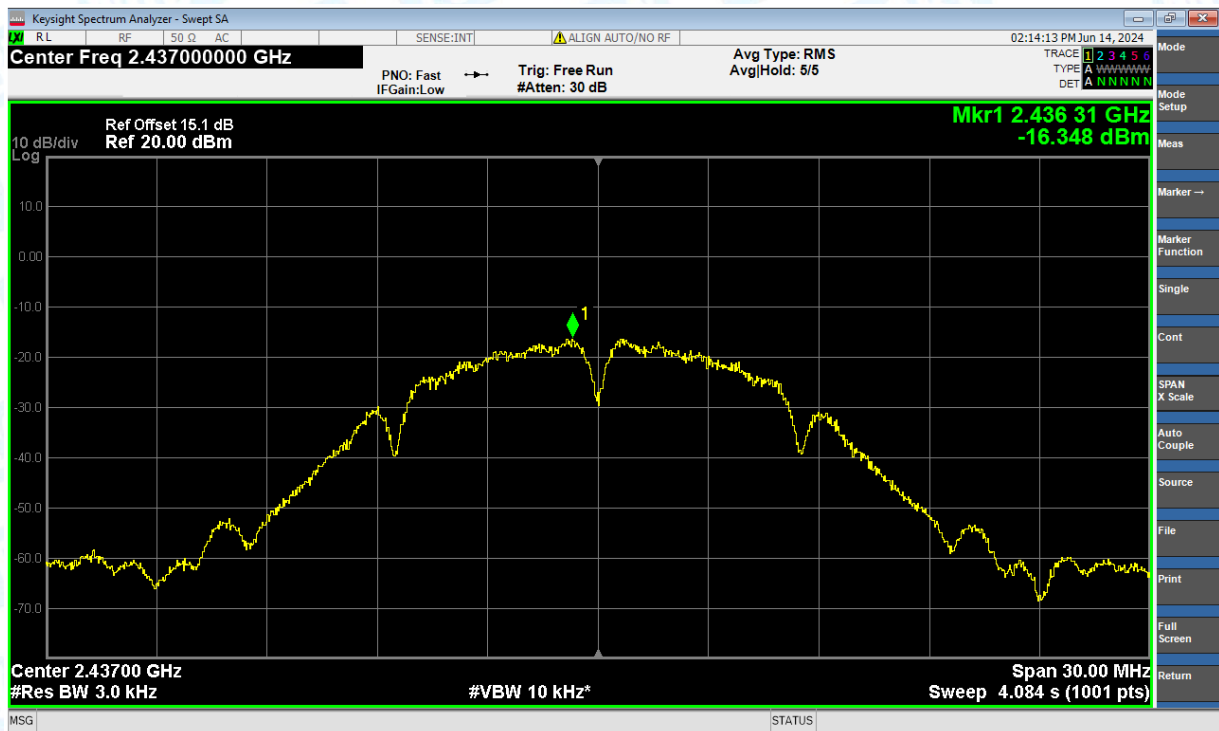
PSD NVNT ax(VHT40) 2452MHz Ant1



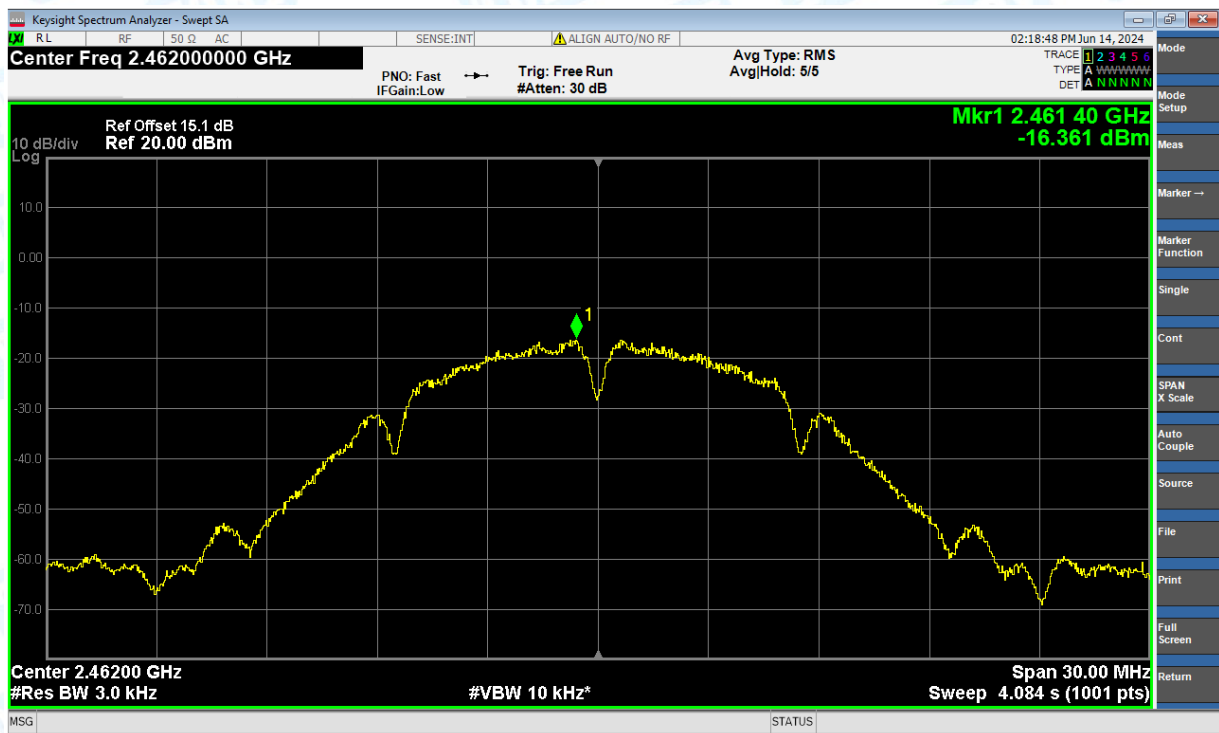
PSD NVNT b 2412MHz Ant1



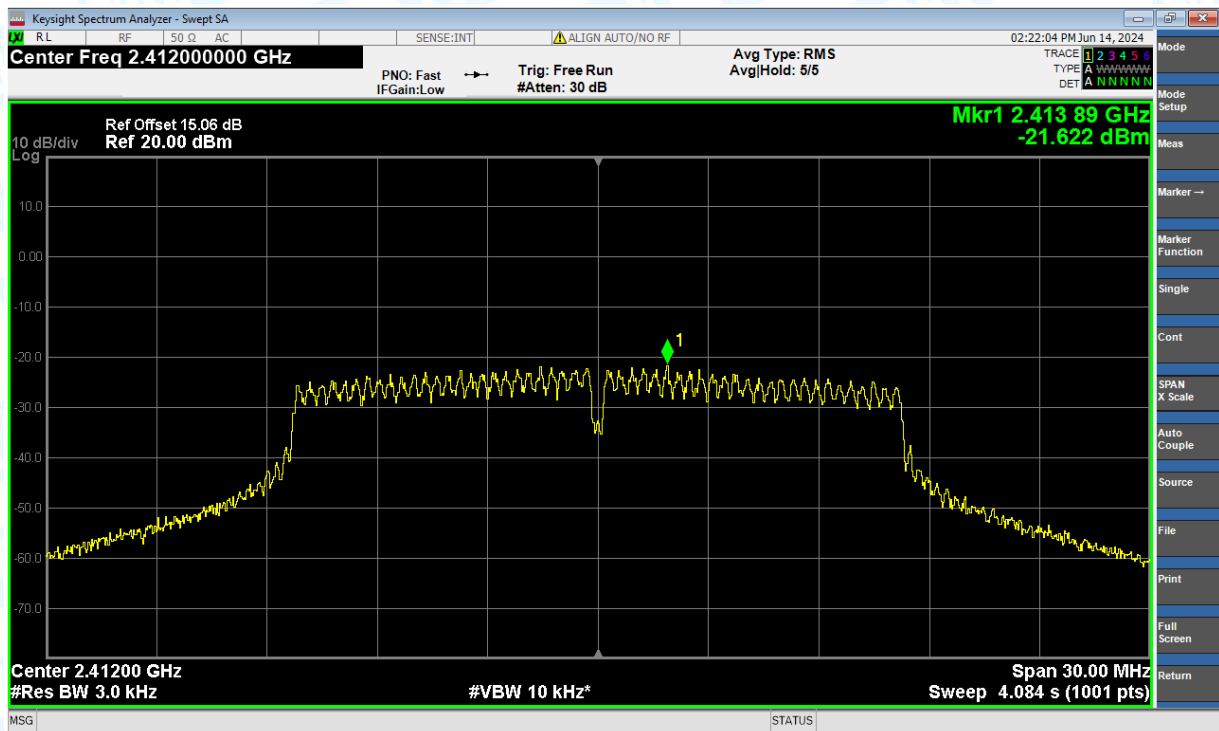
PSD NVNT b 2437MHz Ant1



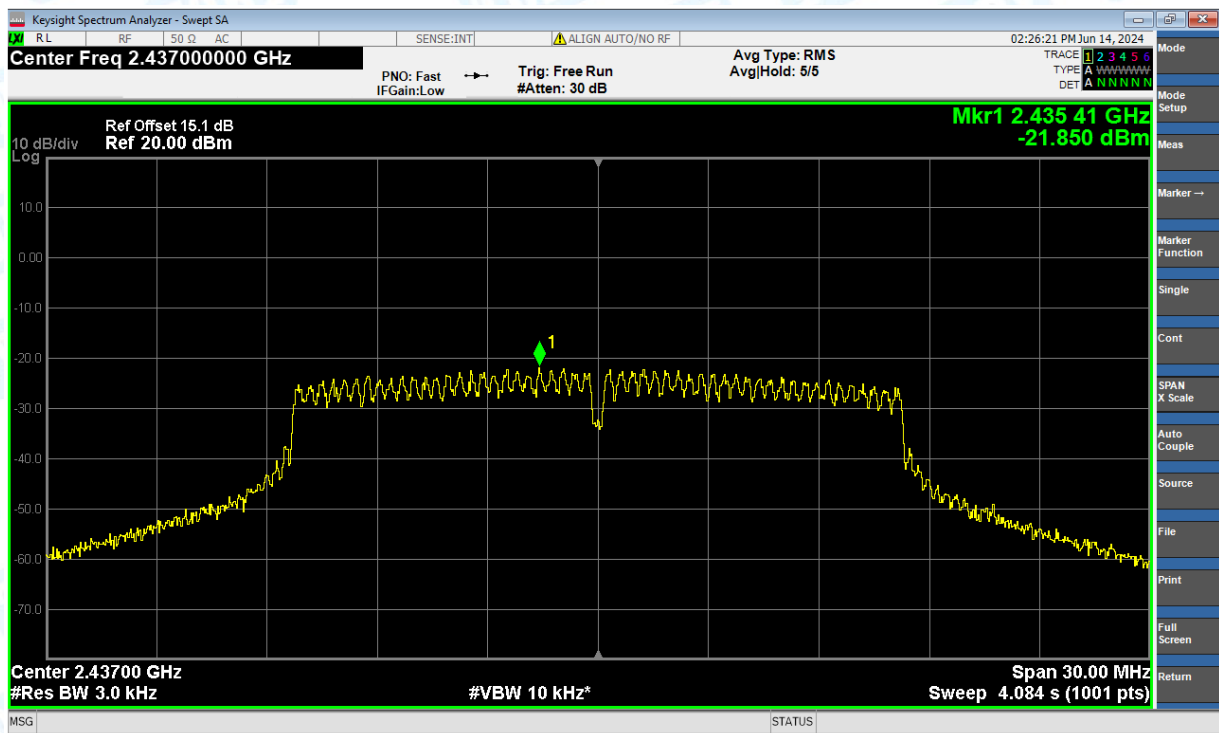
PSD NVNT b 2462MHz Ant1



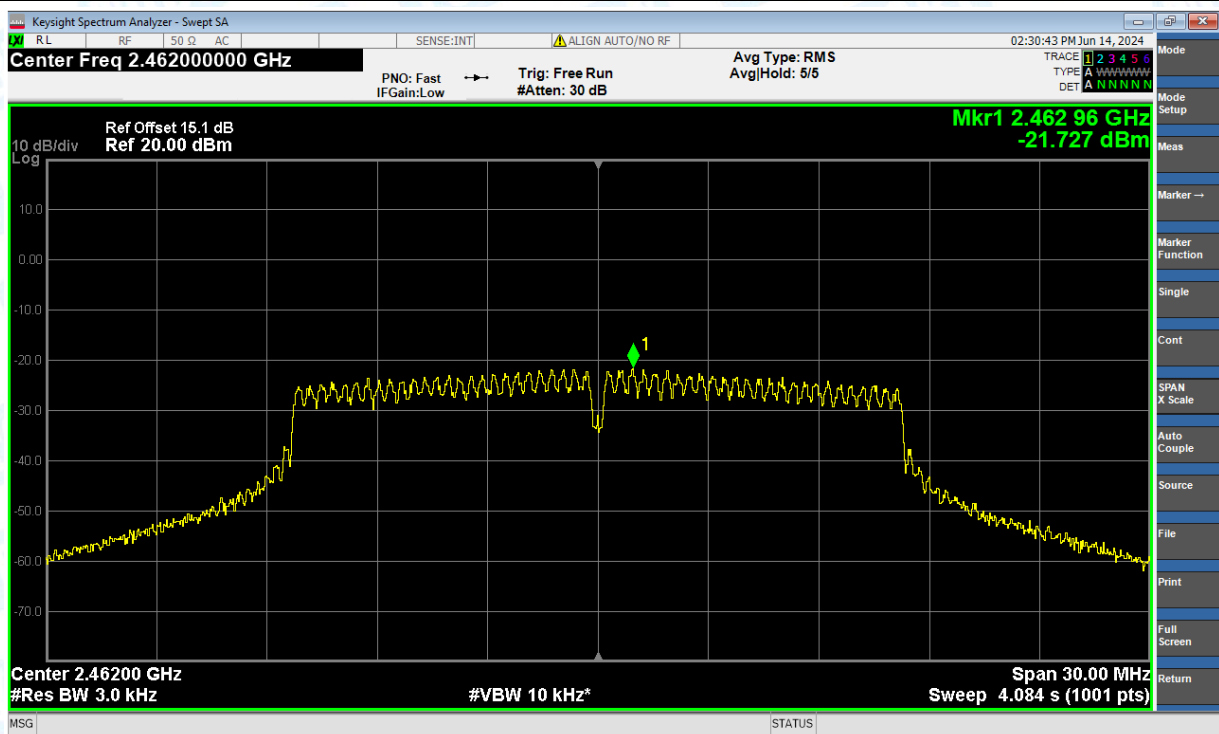
PSD NVNT g 2412MHz Ant1



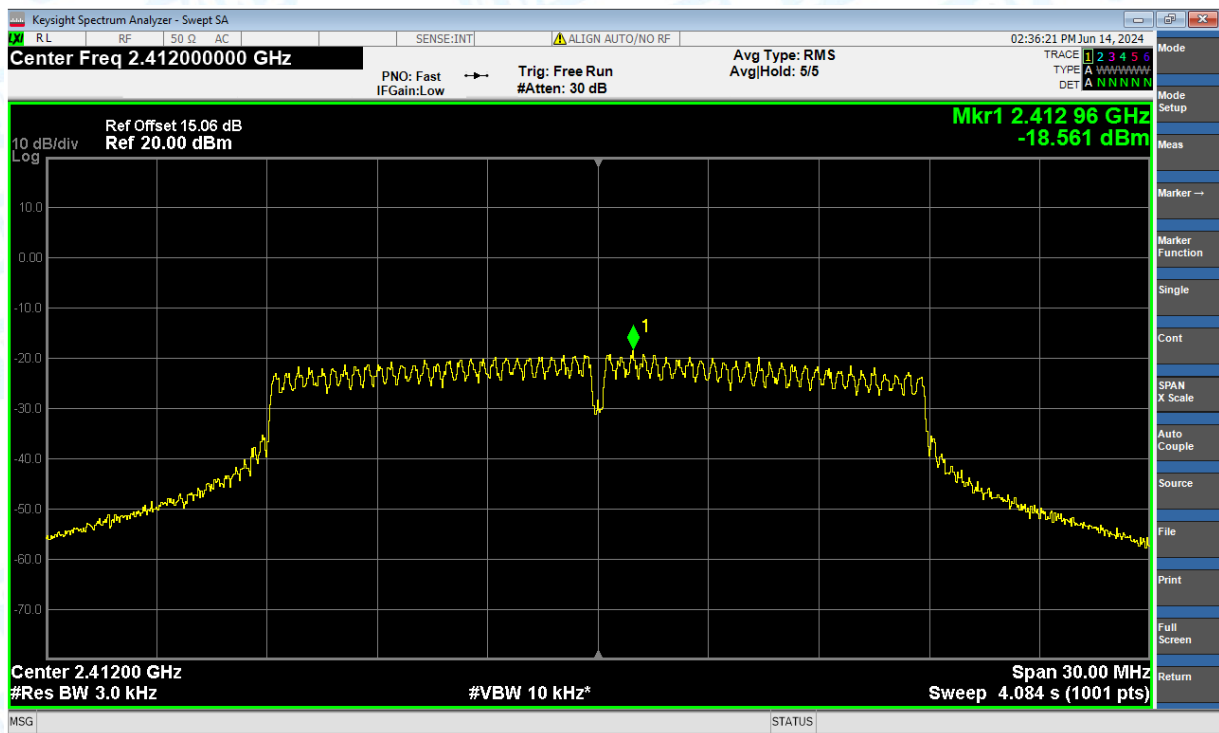
PSD NVNT g 2437MHz Ant1



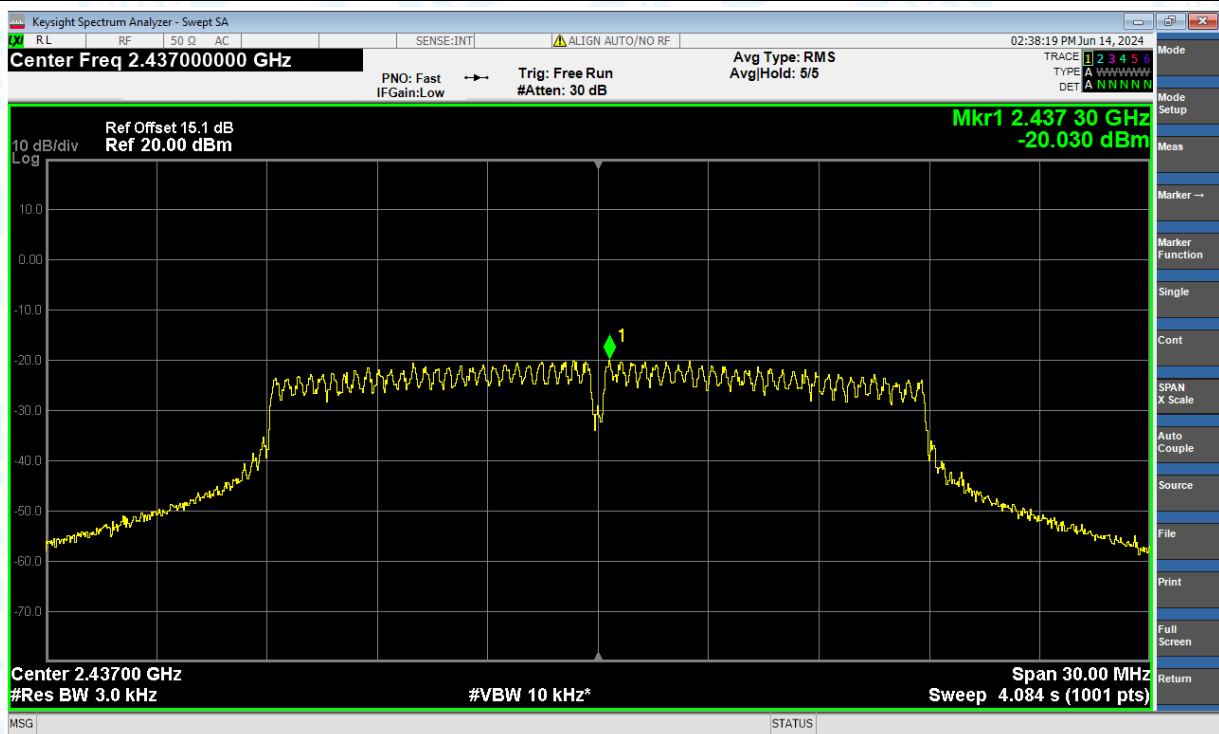
PSD NVNT g 2462MHz Ant1



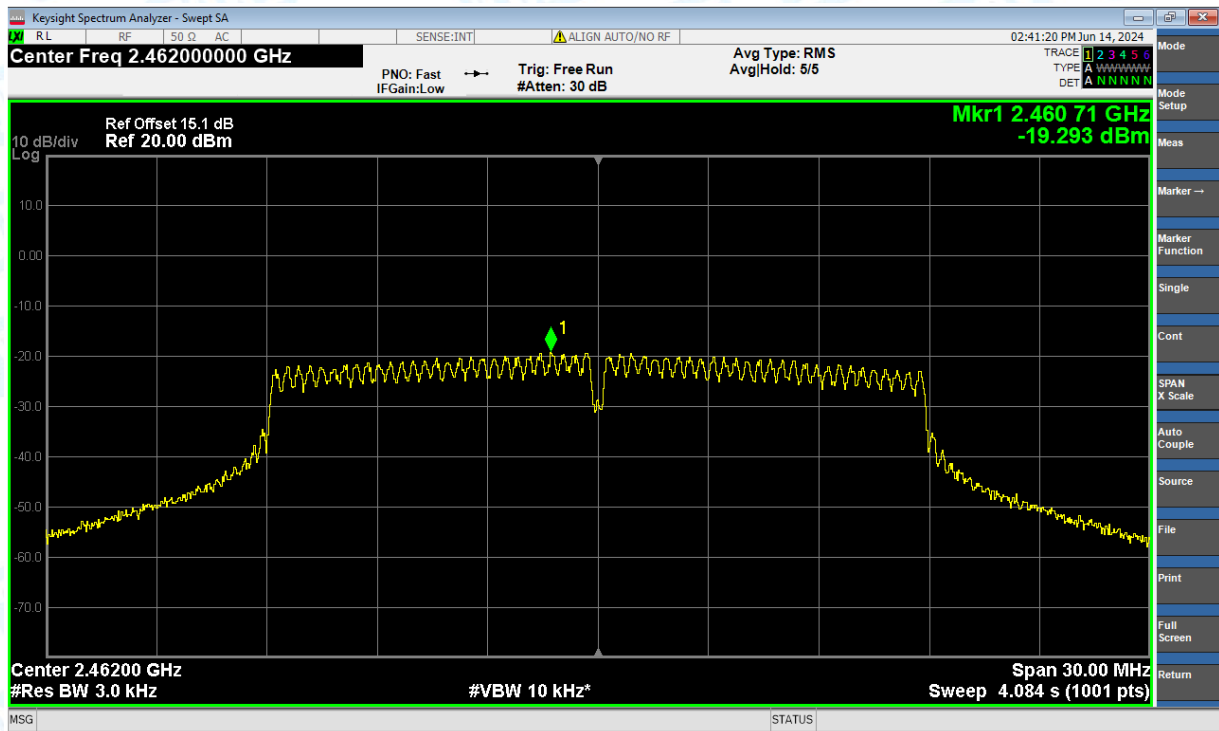
PSD NVNT n(HT20) 2412MHz Ant1



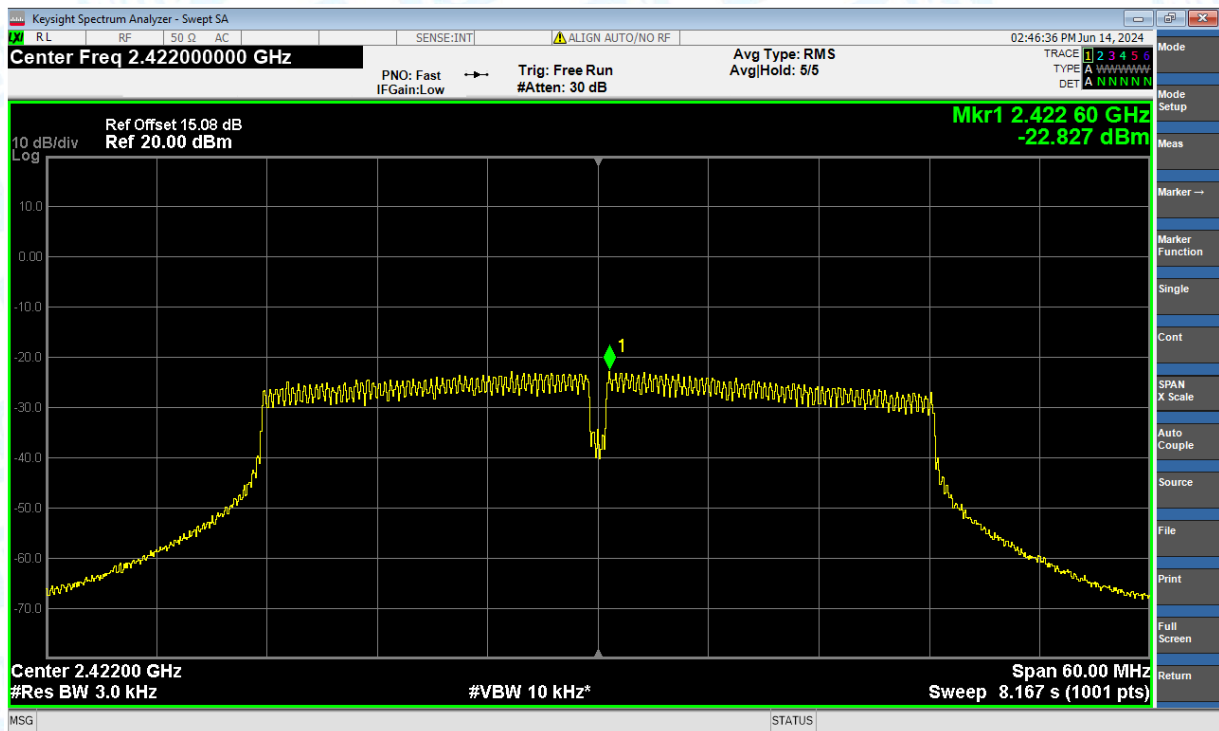
PSD NVNT n(HT20) 2437MHz Ant1



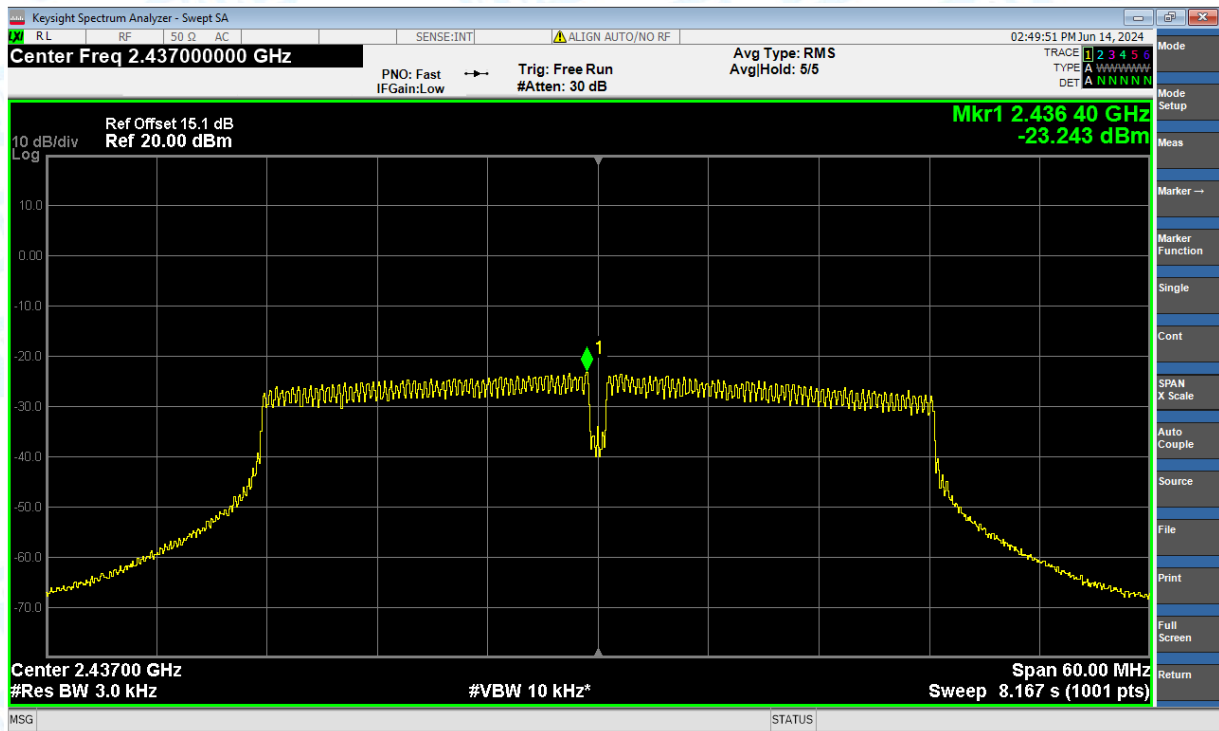
PSD NVNT n(HT20) 2462MHz Ant1



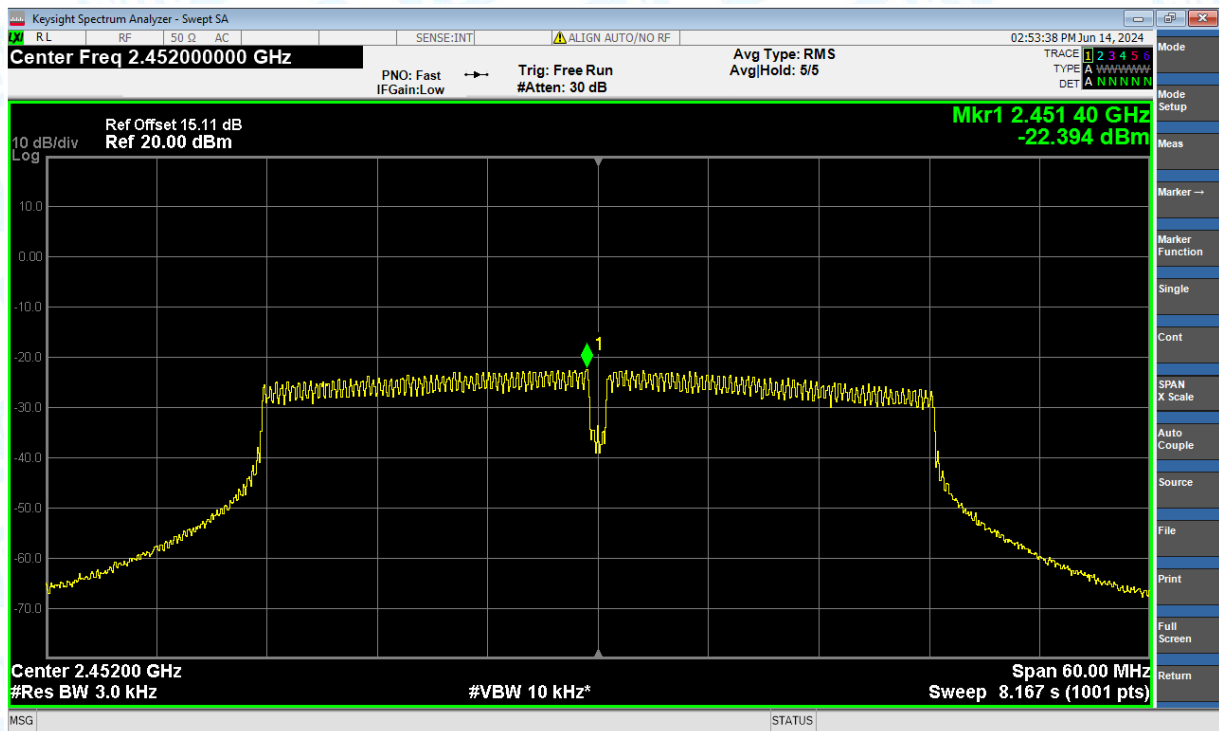
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1



6. Band Edge

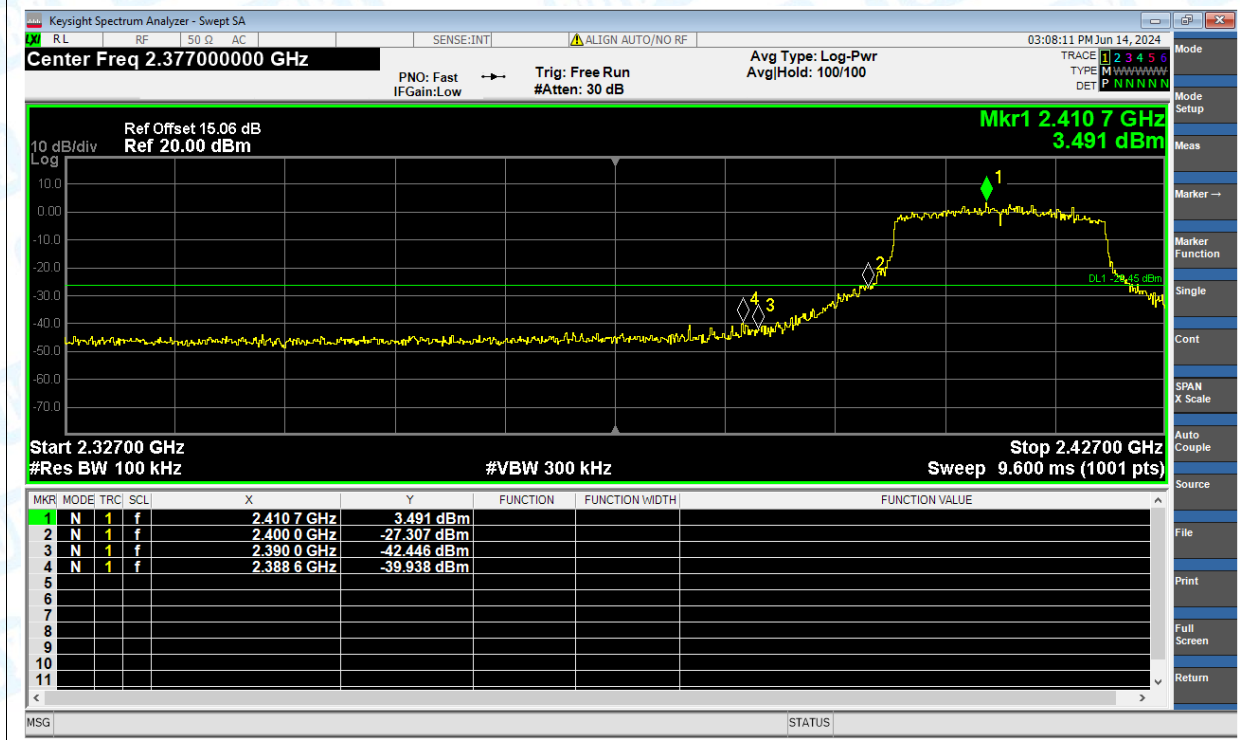
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-43.49	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-46.61	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-42.83	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-40.82	-30	Pass
NVNT	b	2412	Ant1	-51.01	-30	Pass
NVNT	b	2462	Ant1	-51.08	-30	Pass
NVNT	g	2412	Ant1	-45.46	-30	Pass
NVNT	g	2462	Ant1	-44.64	-30	Pass
NVNT	n(HT20)	2412	Ant1	-41.21	-30	Pass
NVNT	n(HT20)	2462	Ant1	-42.12	-30	Pass
NVNT	n(HT40)	2422	Ant1	-41.74	-30	Pass
NVNT	n(HT40)	2452	Ant1	-39.54	-30	Pass

Test Graphs

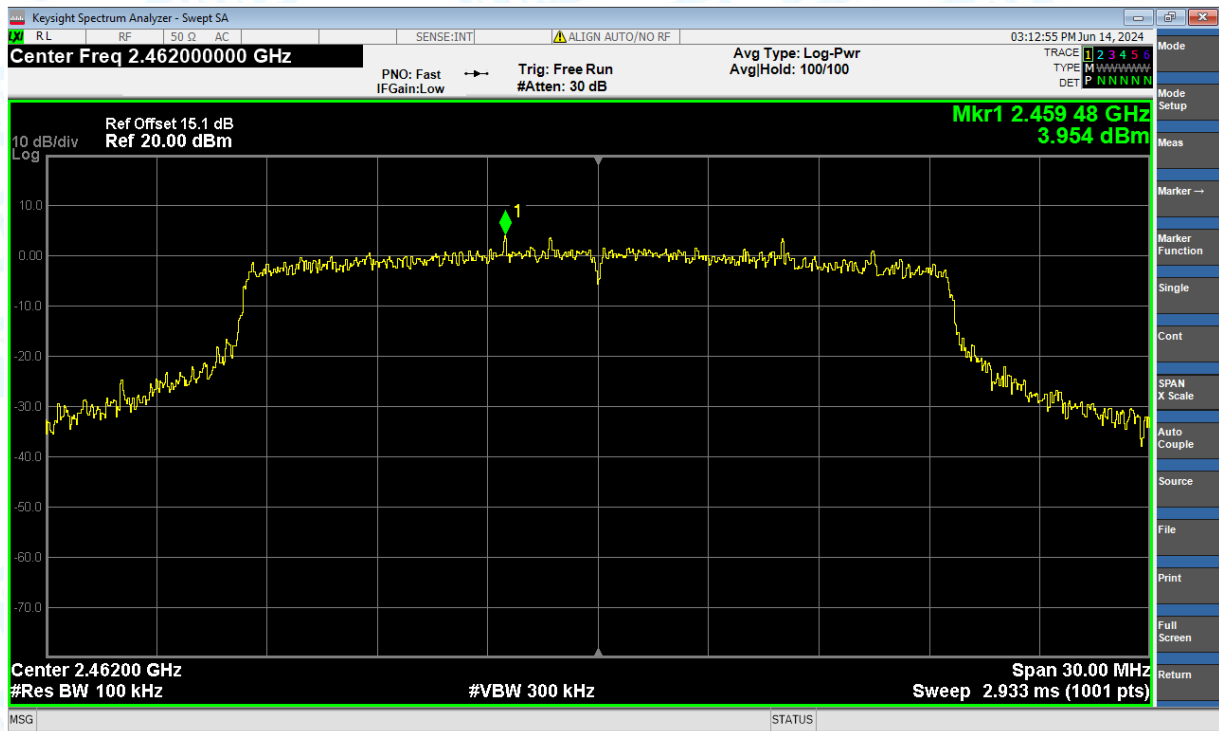
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref



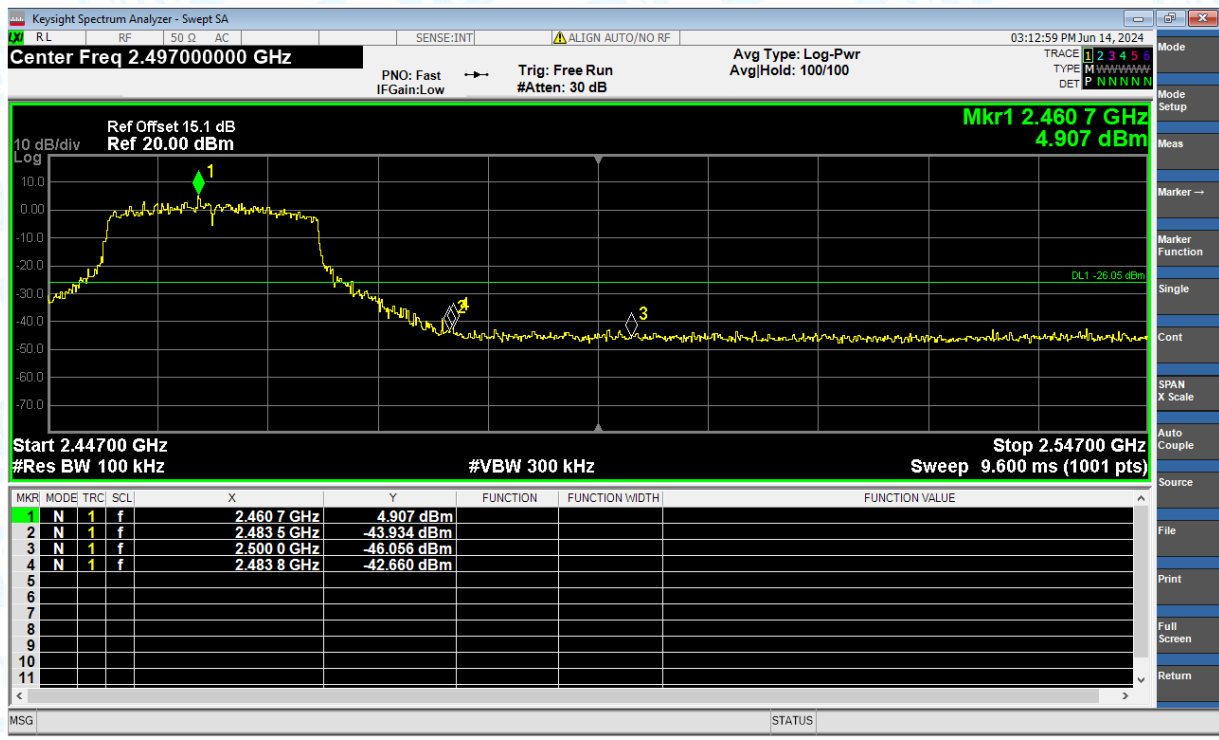
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission



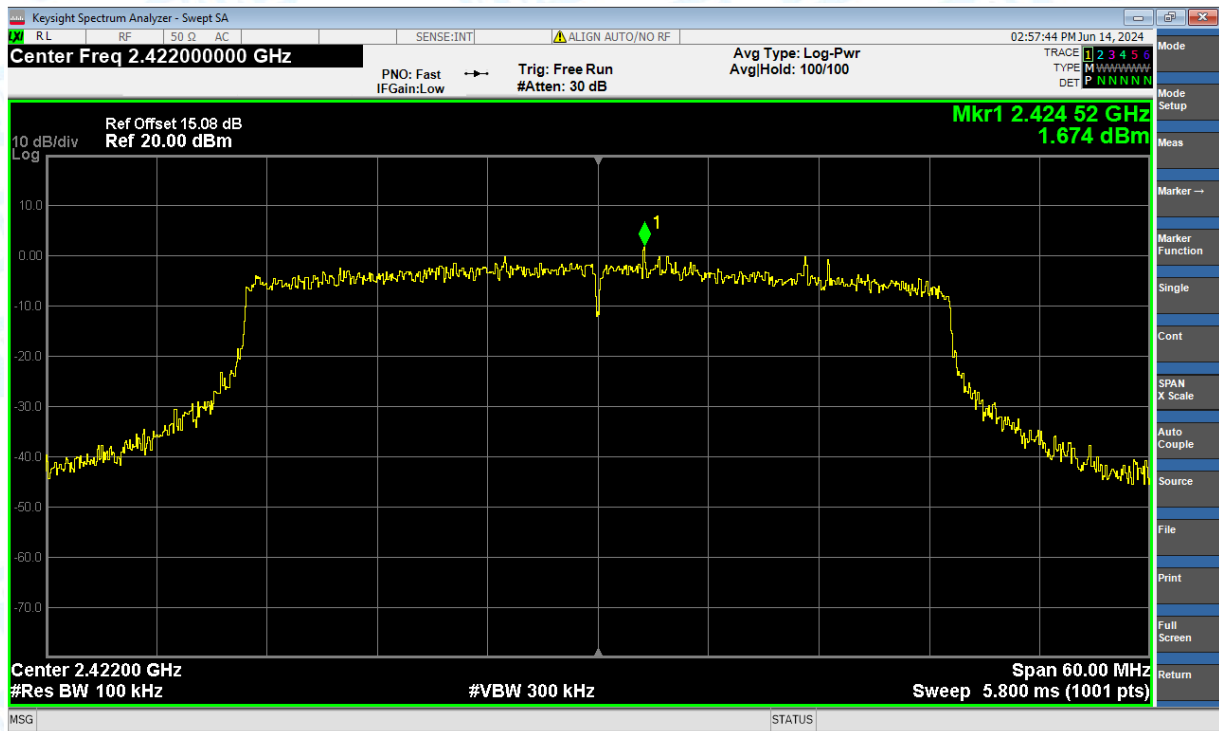
Band Edge NVNT ax(VHT20) 2462MHz Ant1 Ref



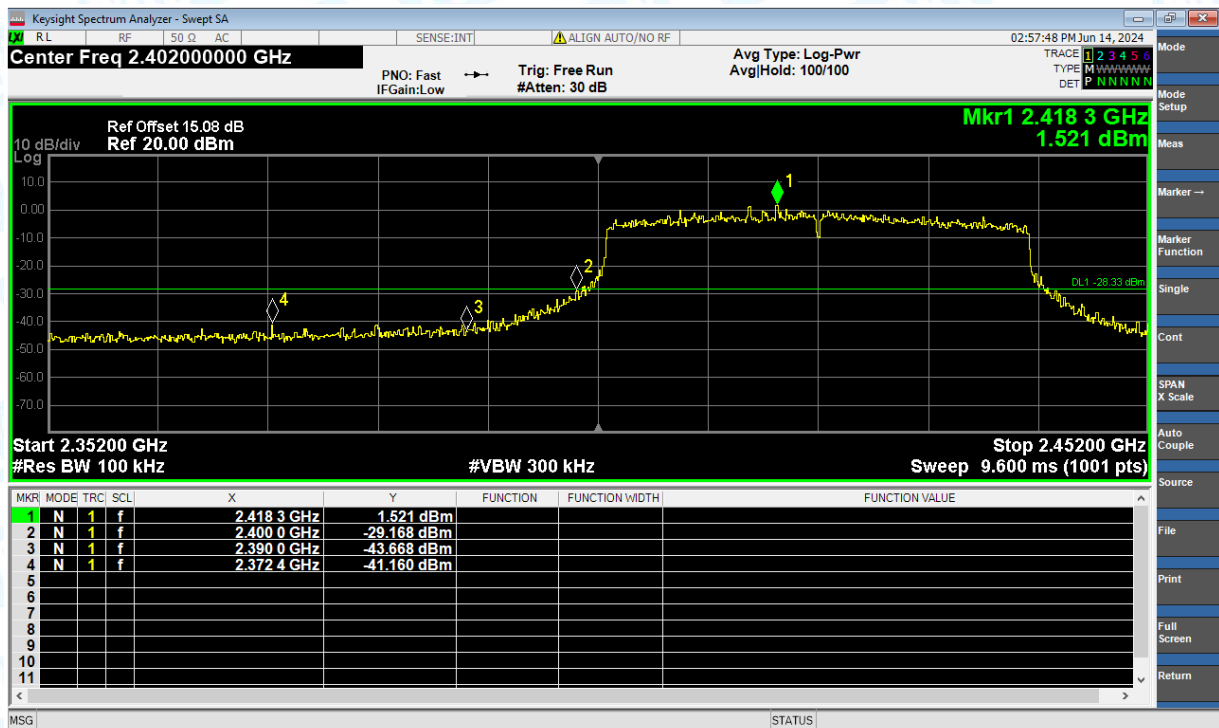
Band Edge NVNT ax(VHT20) 2462MHz Ant1 Emission



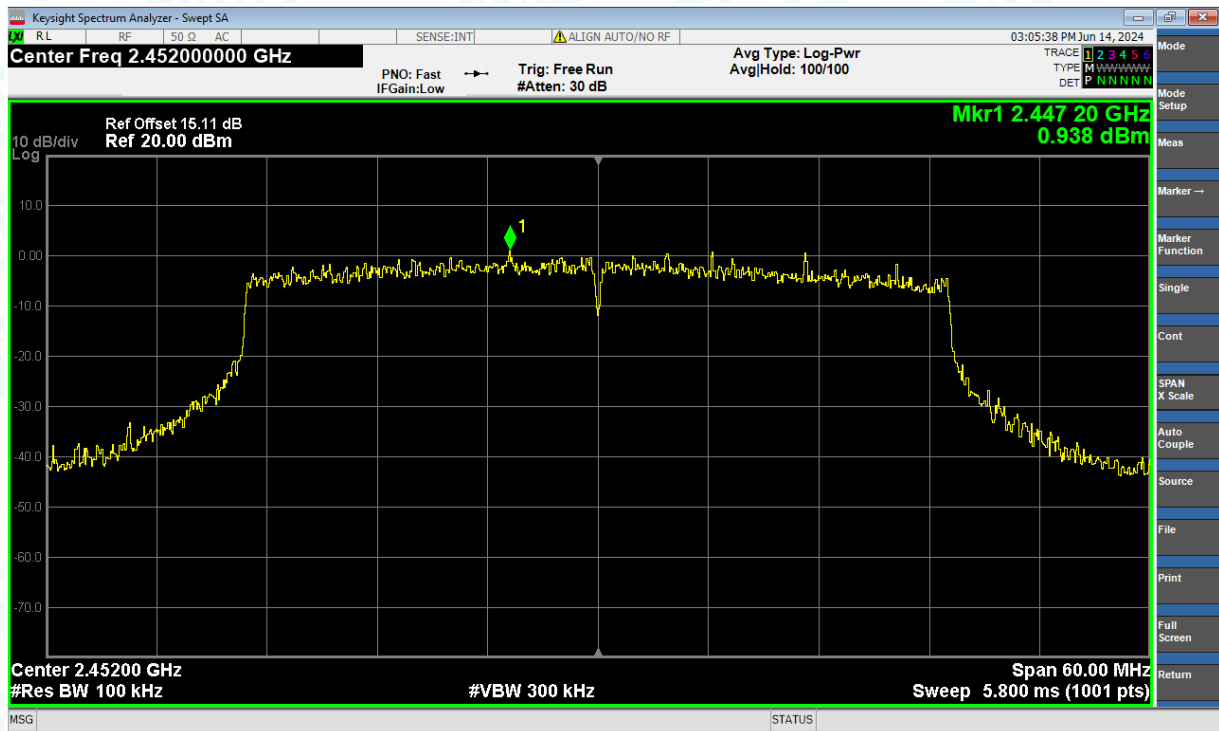
Band Edge NVNT ax(VHT40) 2422MHz Ant1 Ref



Band Edge NVNT ax(VHT40) 2422MHz Ant1 Emission



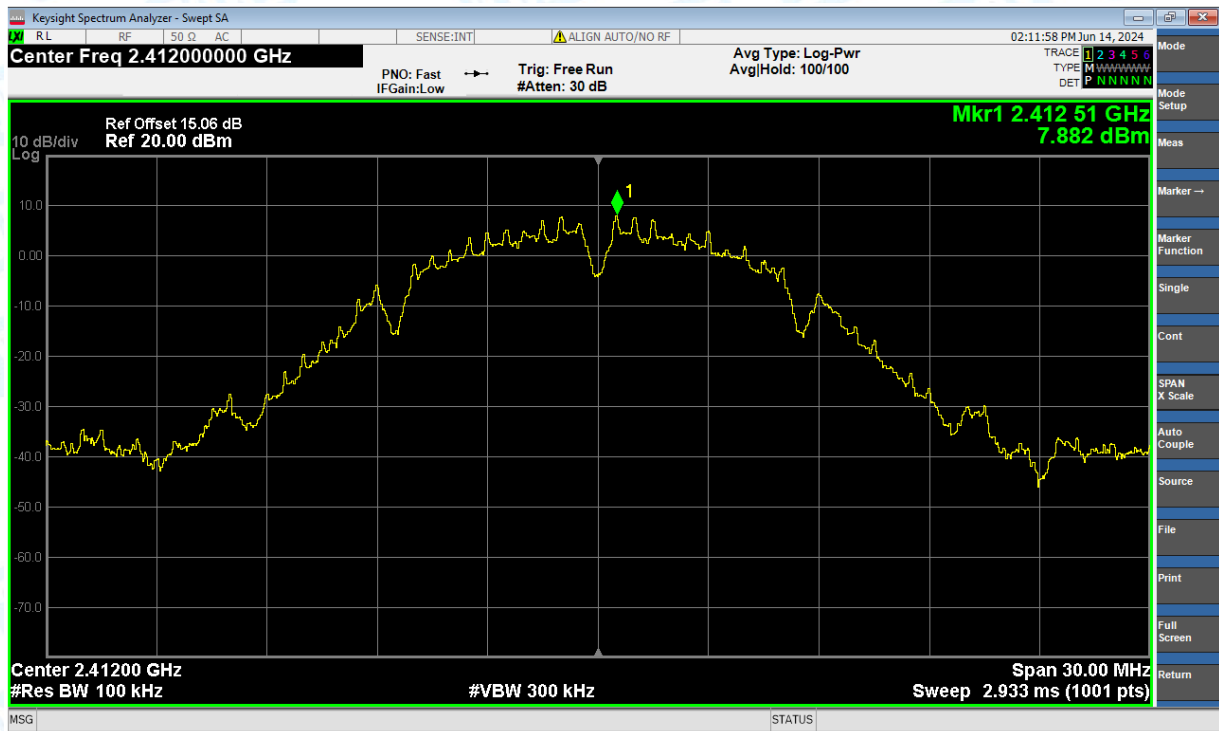
Band Edge NVNT ax(VHT40) 2452MHz Ant1 Ref



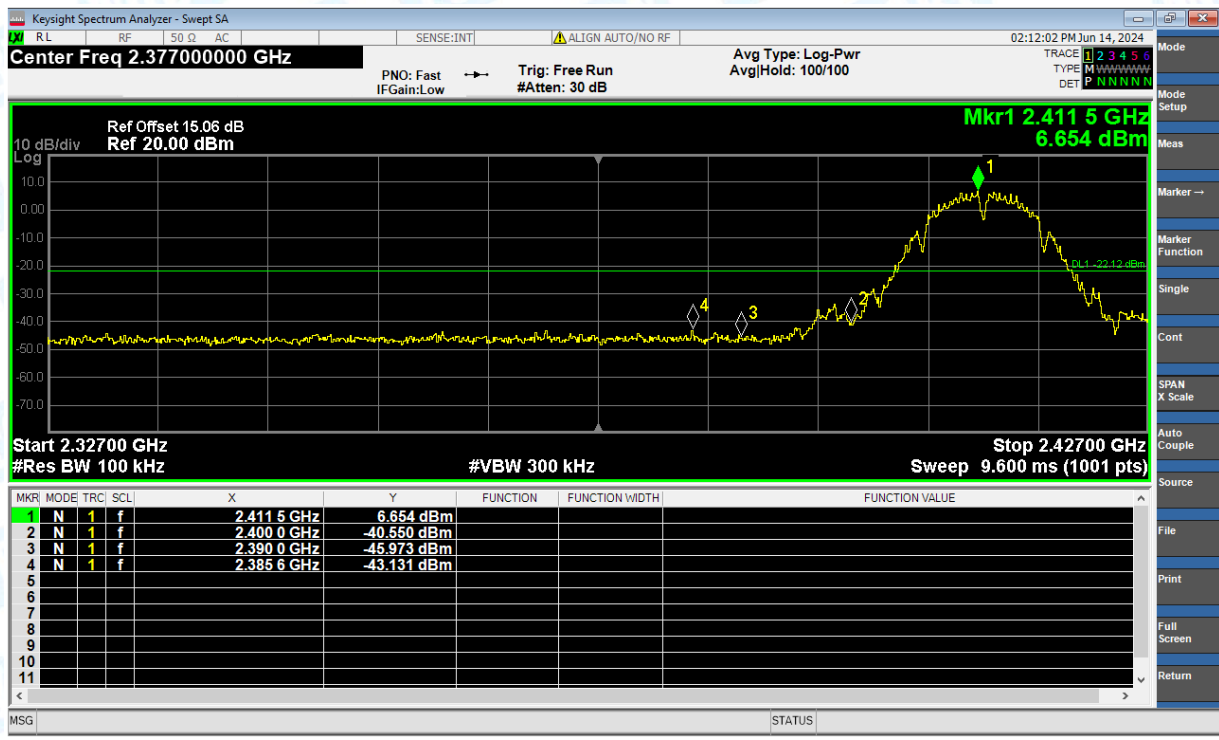
Band Edge NVNT ax(VHT40) 2452MHz Ant1 Emission



Band Edge NVNT b 2412MHz Ant1 Ref



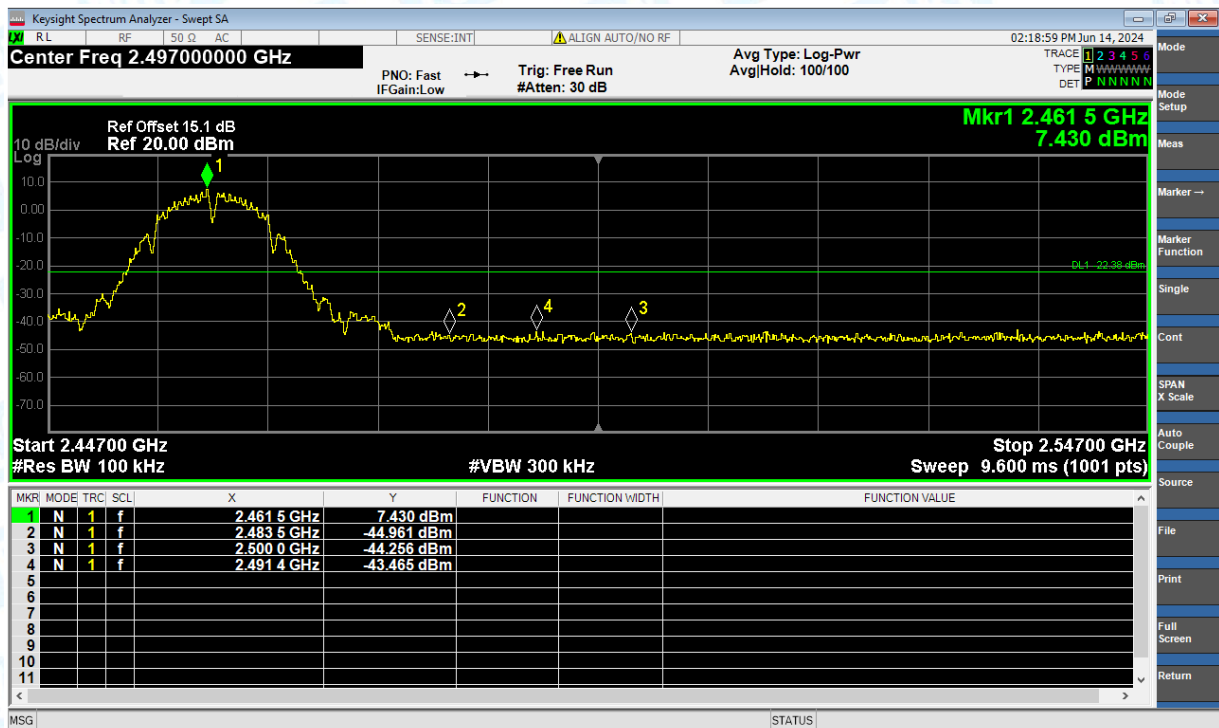
Band Edge NVNT b 2412MHz Ant1 Emission



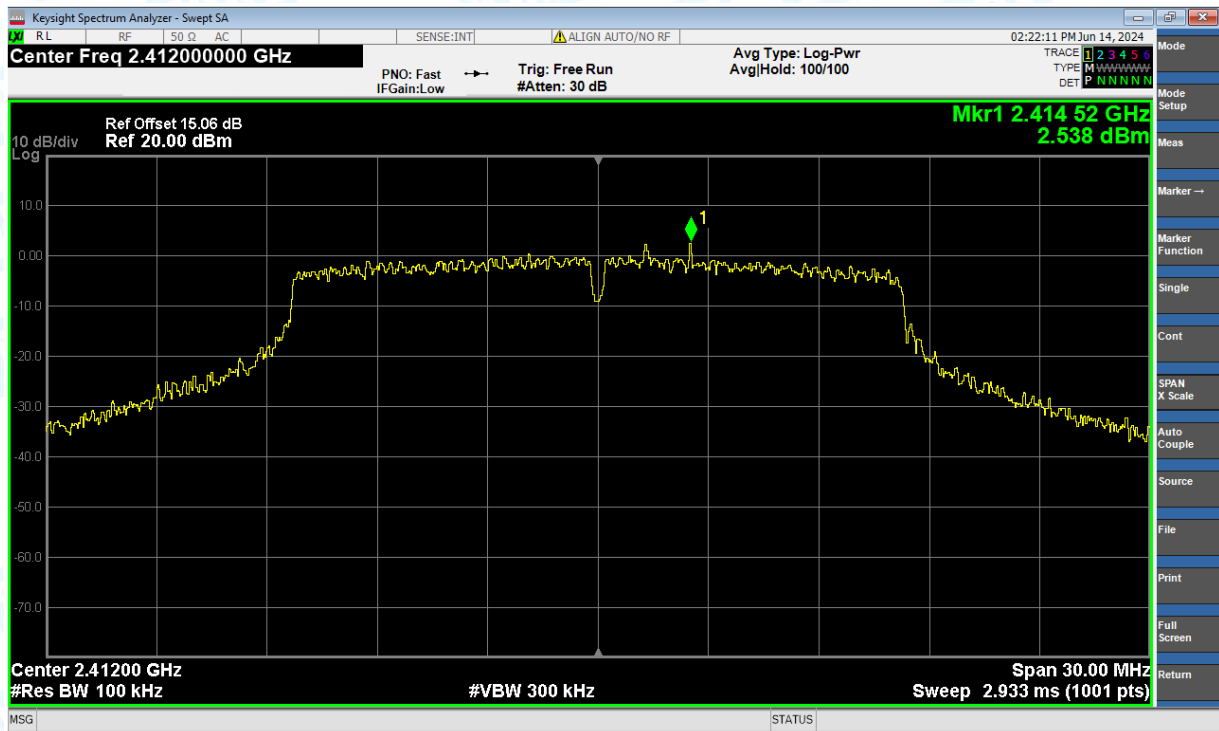
Band Edge NVNT b 2462MHz Ant1 Ref



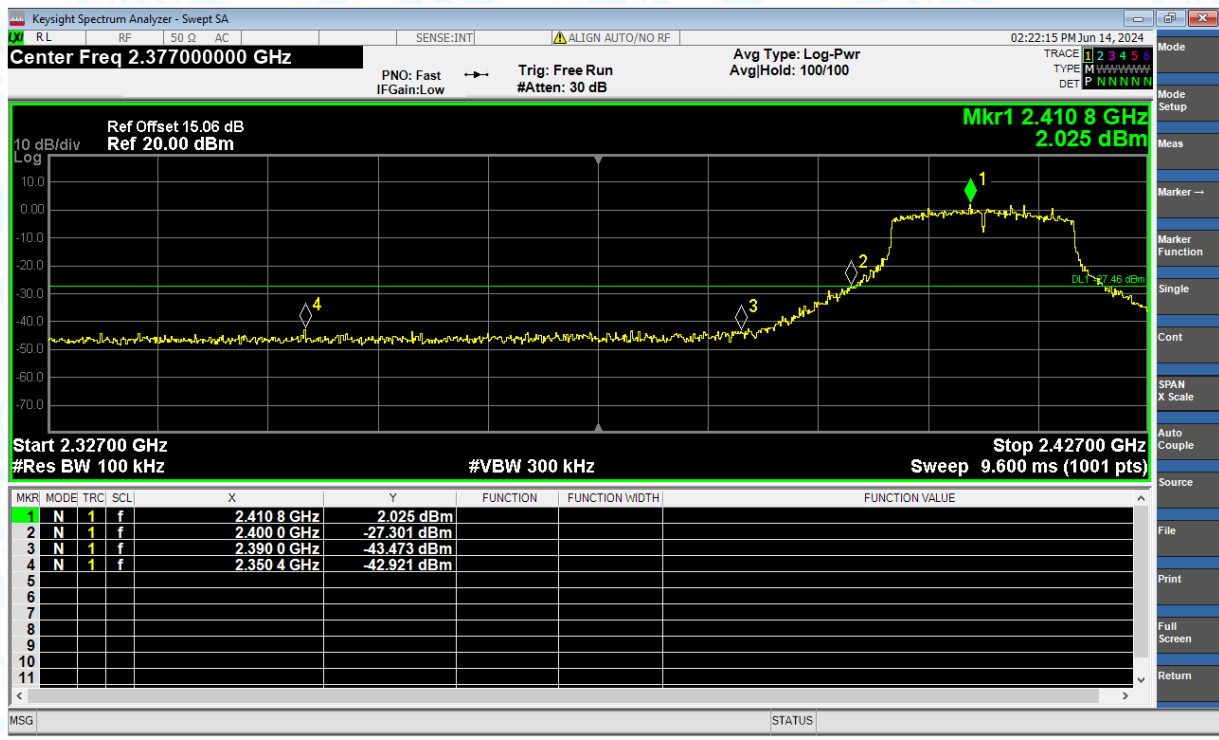
Band Edge NVNT b 2462MHz Ant1 Emission



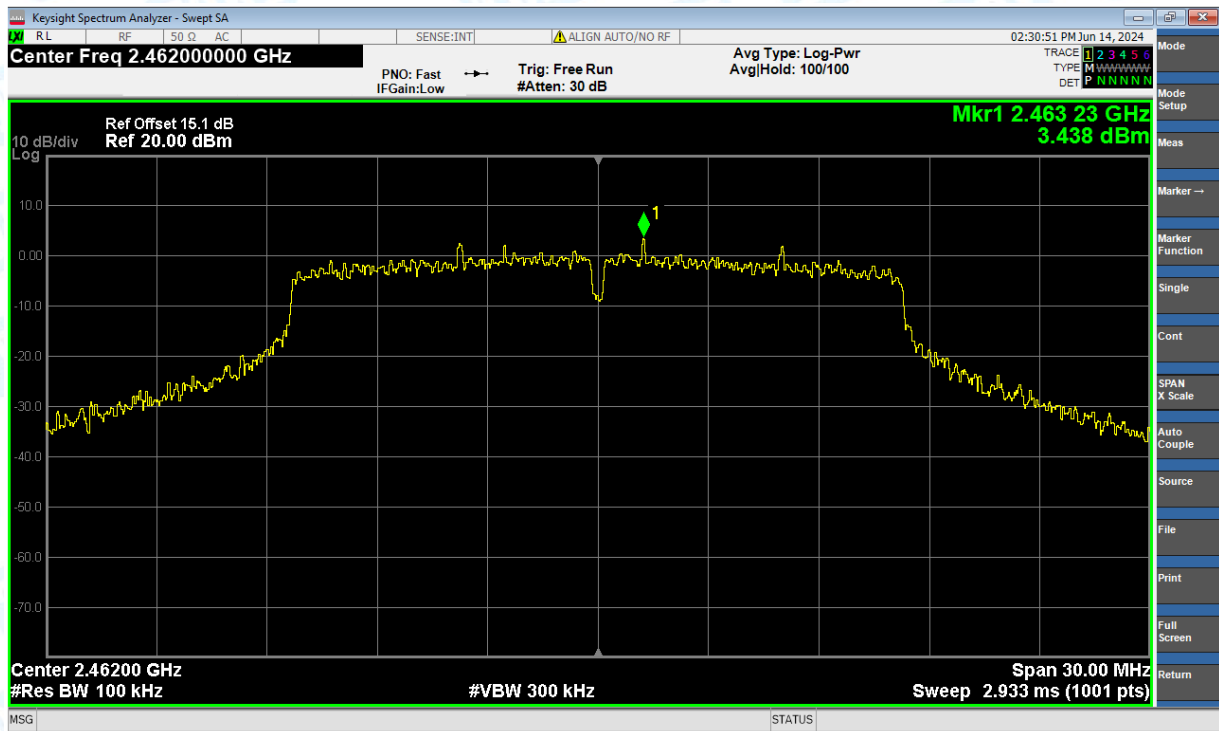
Band Edge NVNT g 2412MHz Ant1 Ref



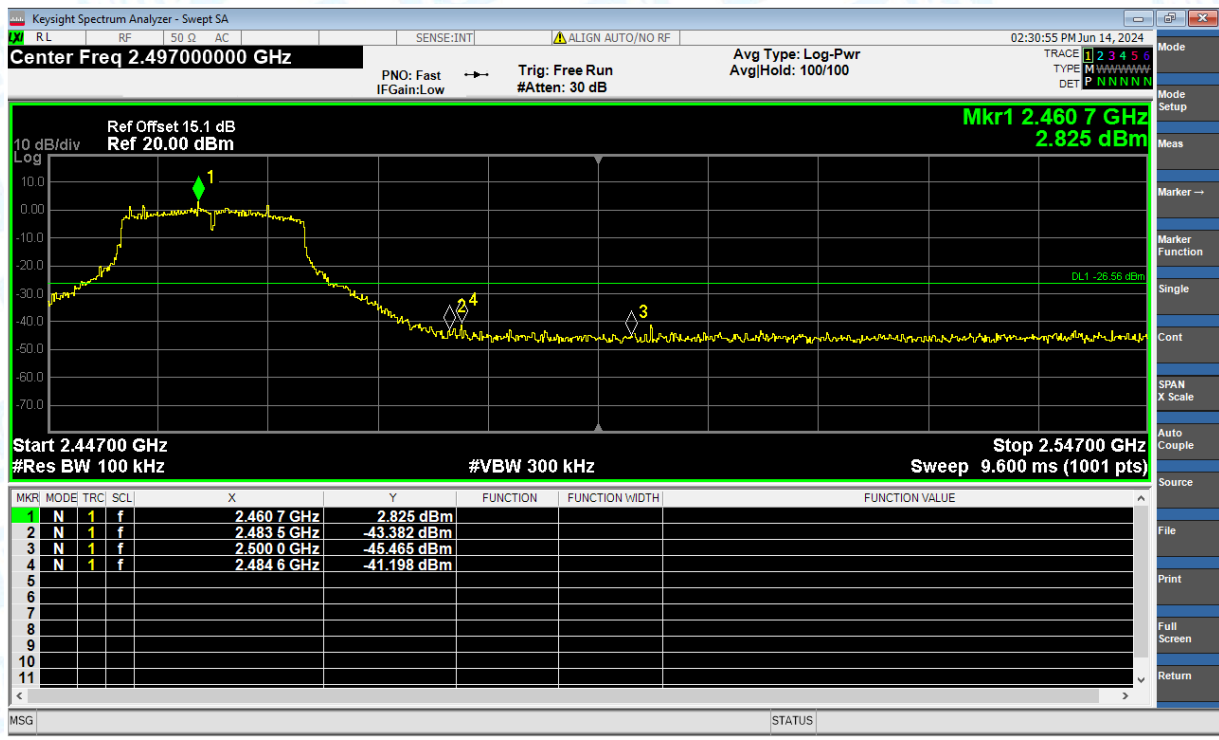
Band Edge NVNT g 2412MHz Ant1 Emission



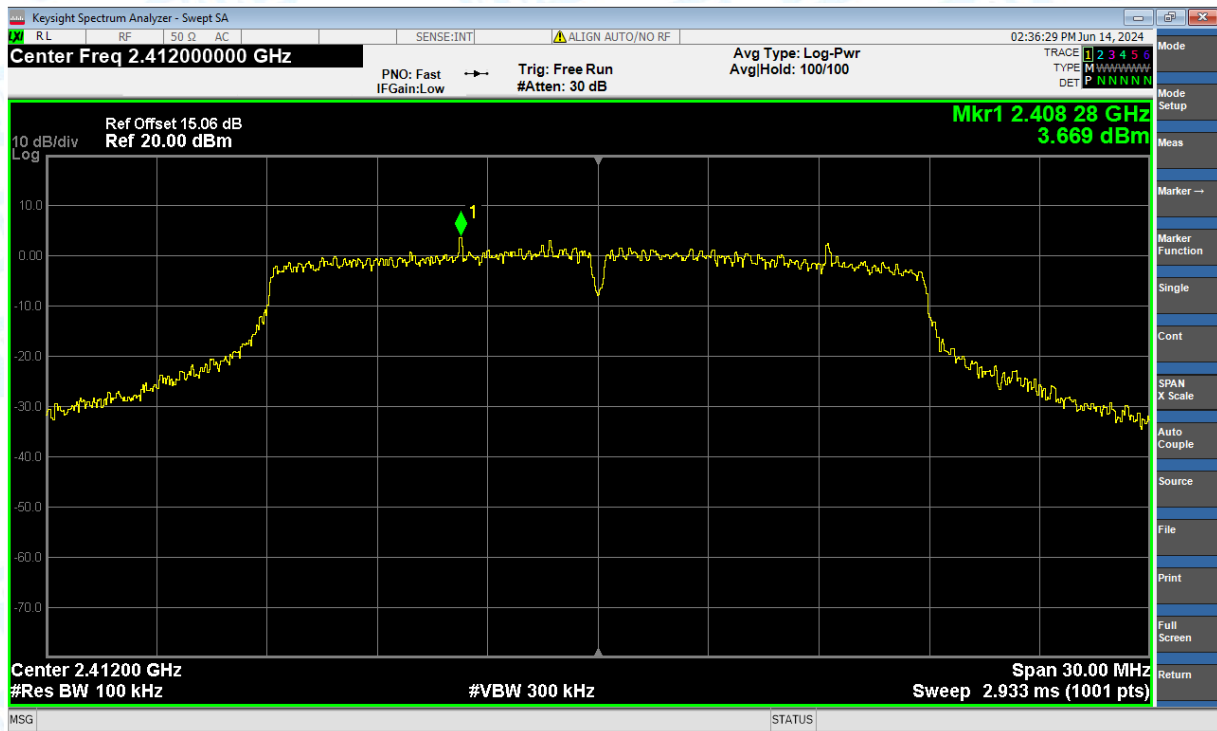
Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



Band Edge NVNT n(HT20) 2412MHz Ant1 Emission

