

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	IP CAMERA
Test Model:	T-CP8040LF-W3M
Sample ID:	202401-0043-3-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Li ying jing
Note: For a more detailed features description, please refer to the report TBR-C-202401-0043-61 The report only show the worst case data.	

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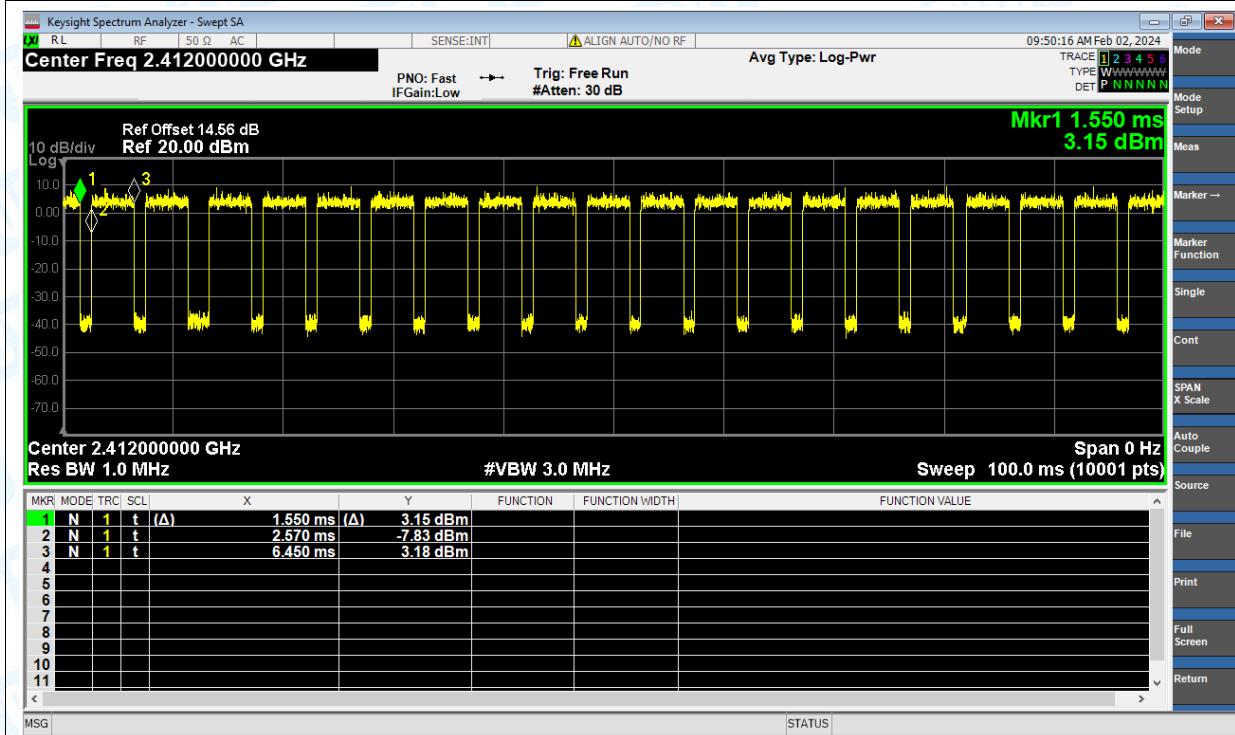
8. Restrict Band76

1. Duty Cycle

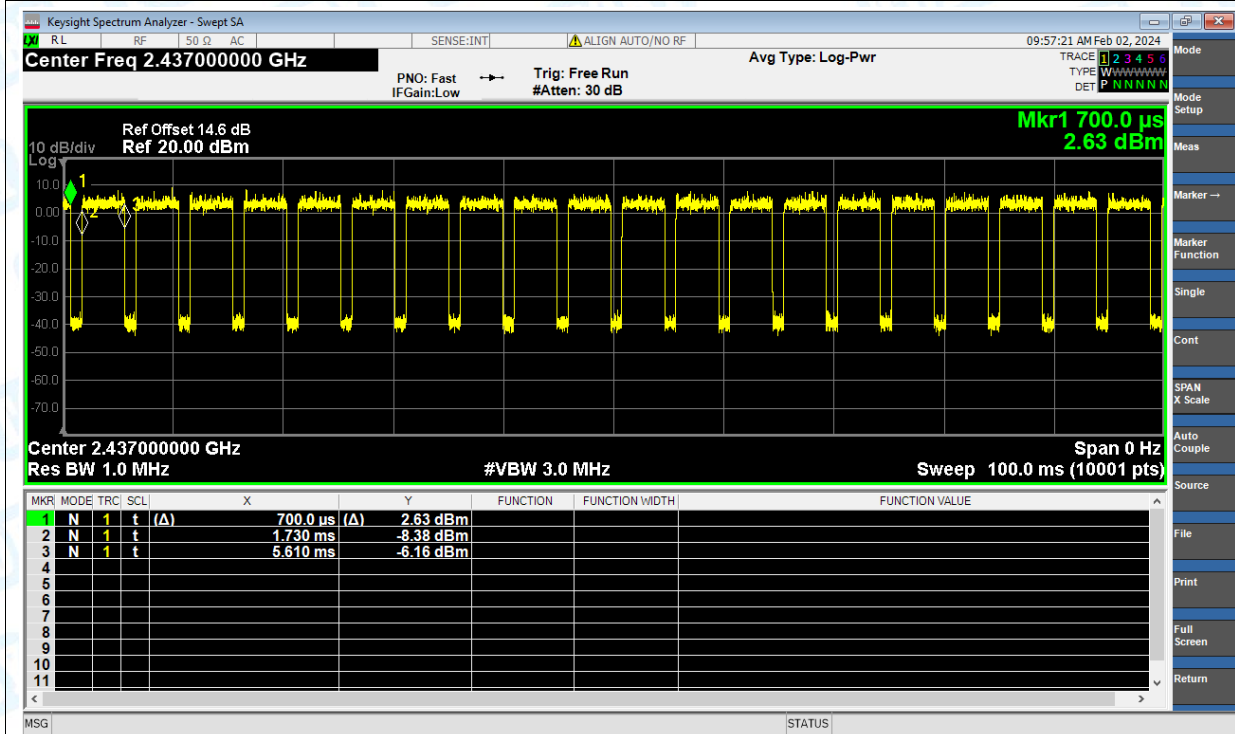
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	79.18	1.01	0.26
NVNT	ax(VHT20)	2437	Ant1	79.02	1.02	0.26
NVNT	ax(VHT20)	2462	Ant1	79.02	1.02	0.26
NVNT	ax(VHT40)	2422	Ant1	78.98	1.02	0.26
NVNT	ax(VHT40)	2437	Ant1	78.98	1.02	0.26
NVNT	ax(VHT40)	2452	Ant1	79.14	1.02	0.26
NVNT	b	2412	Ant1	89.18	0.5	0.12
NVNT	b	2437	Ant1	89.29	0.49	0.12
NVNT	b	2462	Ant1	89.19	0.5	0.12
NVNT	g	2412	Ant1	57.44	2.41	0.72
NVNT	g	2437	Ant1	57.61	2.4	0.71
NVNT	g	2462	Ant1	46.82	3.3	0.71
NVNT	n(HT20)	2412	Ant1	72.92	1.37	0.2
NVNT	n(HT20)	2437	Ant1	83.14	0.8	0.2
NVNT	n(HT20)	2462	Ant1	83.31	0.79	0.2
NVNT	n(HT40)	2422	Ant1	82.6	0.83	0.2
NVNT	n(HT40)	2437	Ant1	82.63	0.83	0.2
NVNT	n(HT40)	2452	Ant1	82.63	0.83	0.2

Test Graphs

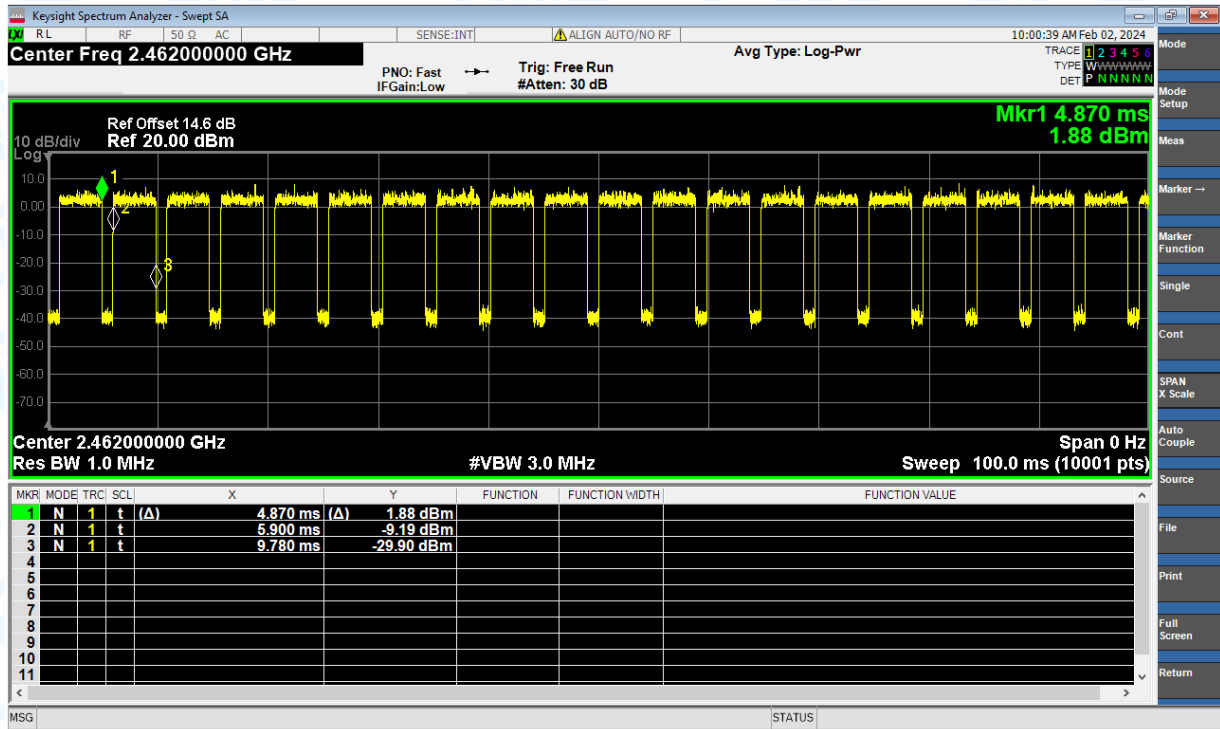
Duty Cycle NVNT ax(VHT20) 2412MHz Ant1



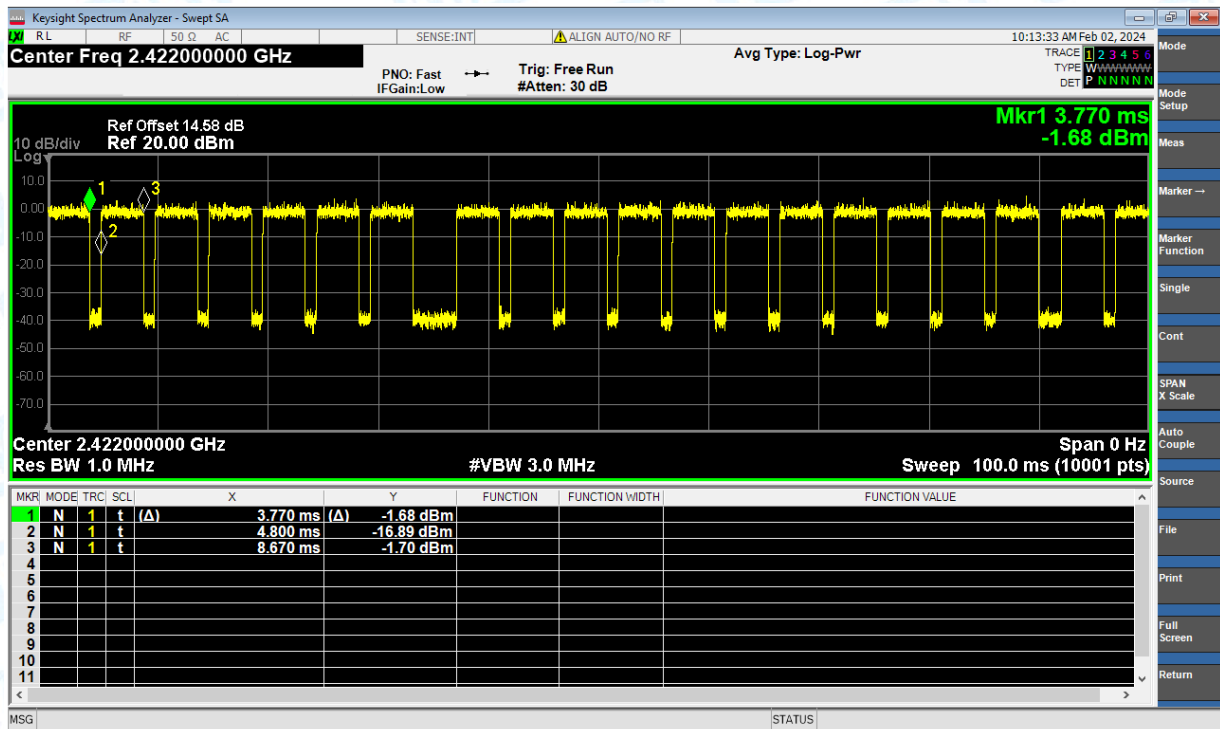
Duty Cycle NVNT ax(VHT20) 2437MHz Ant1



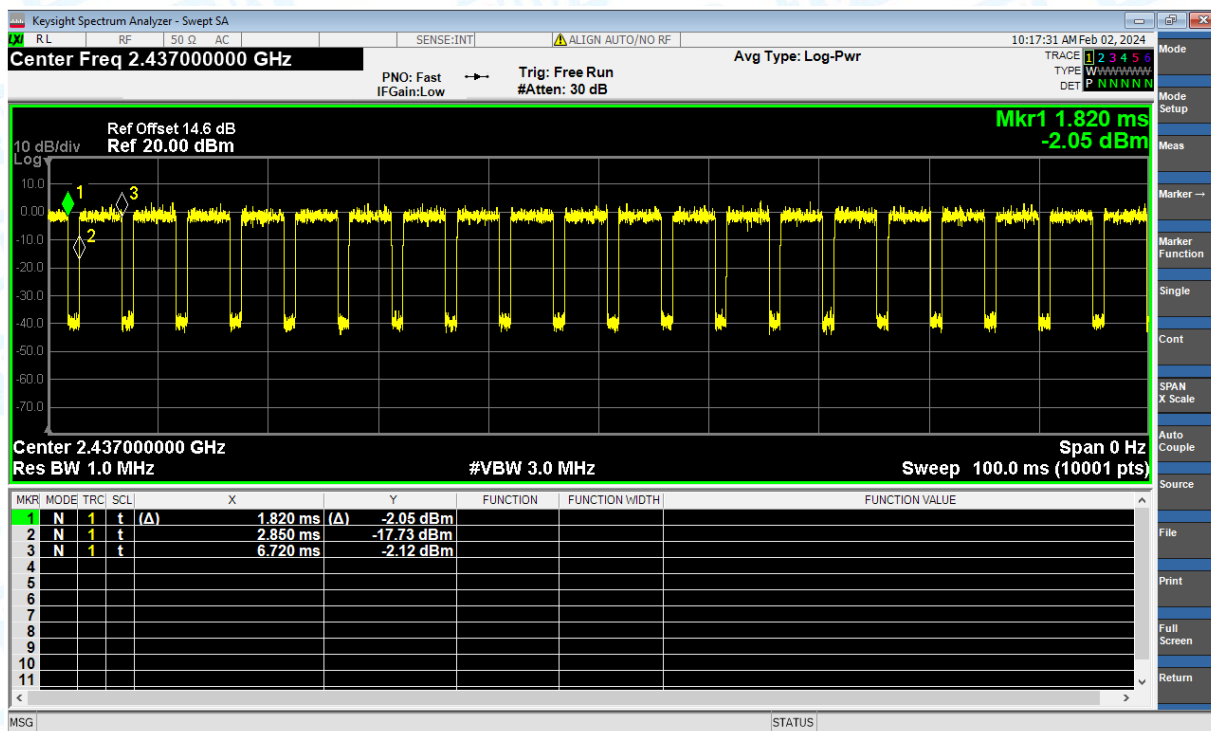
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



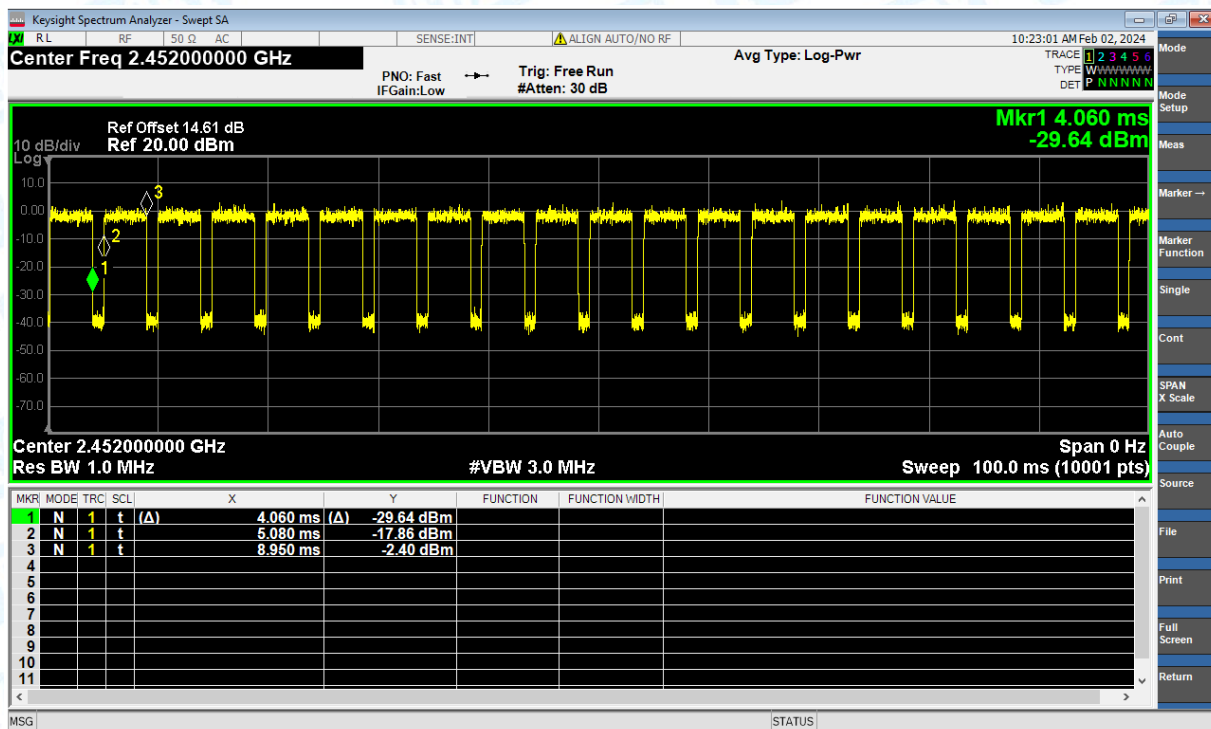
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



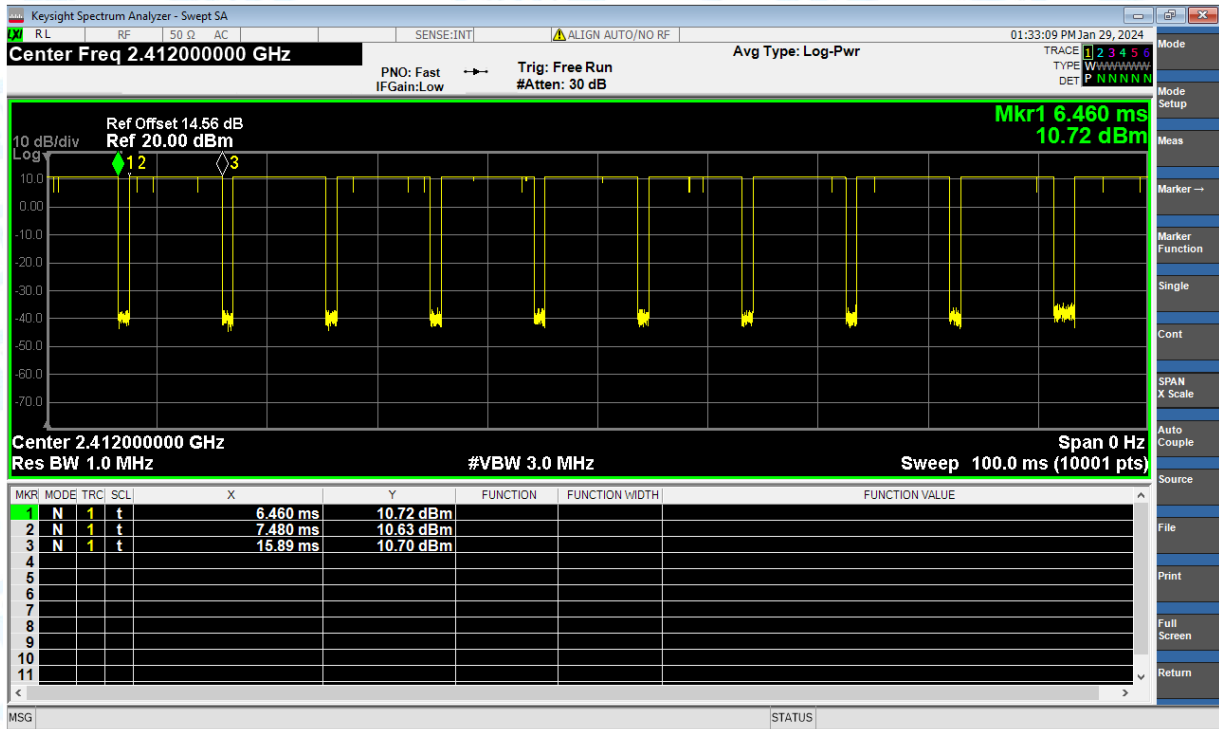
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



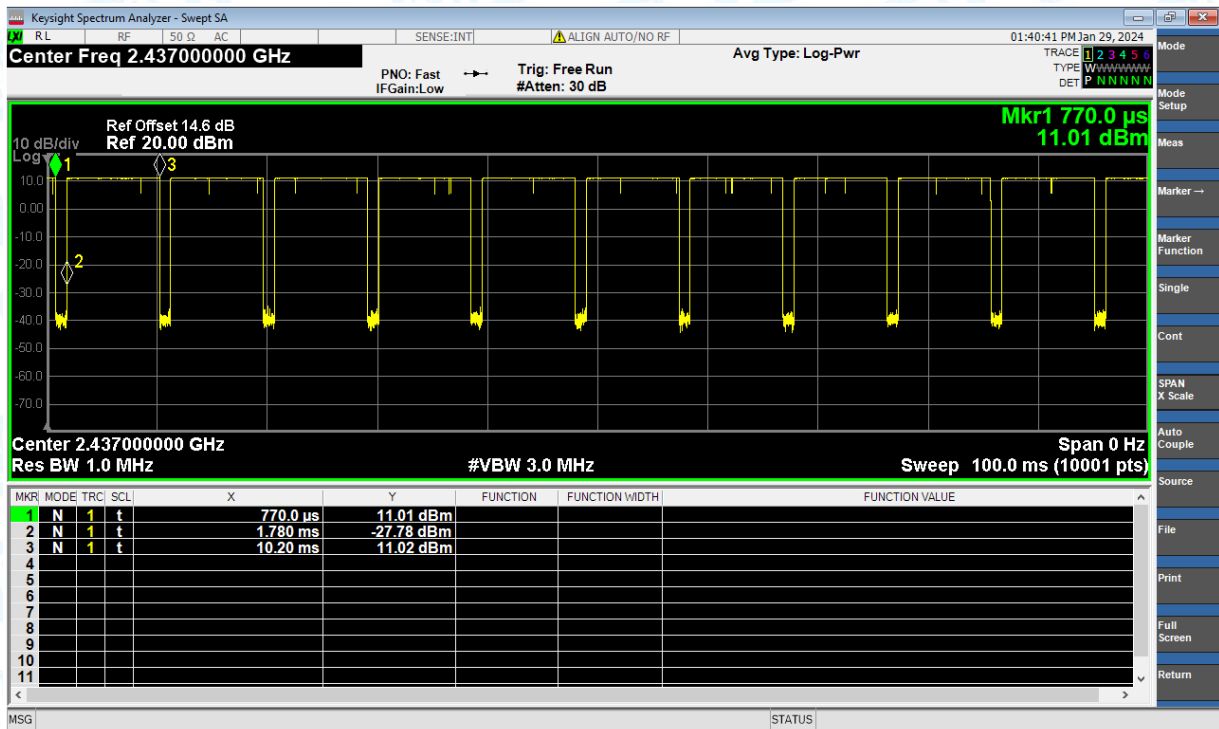
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



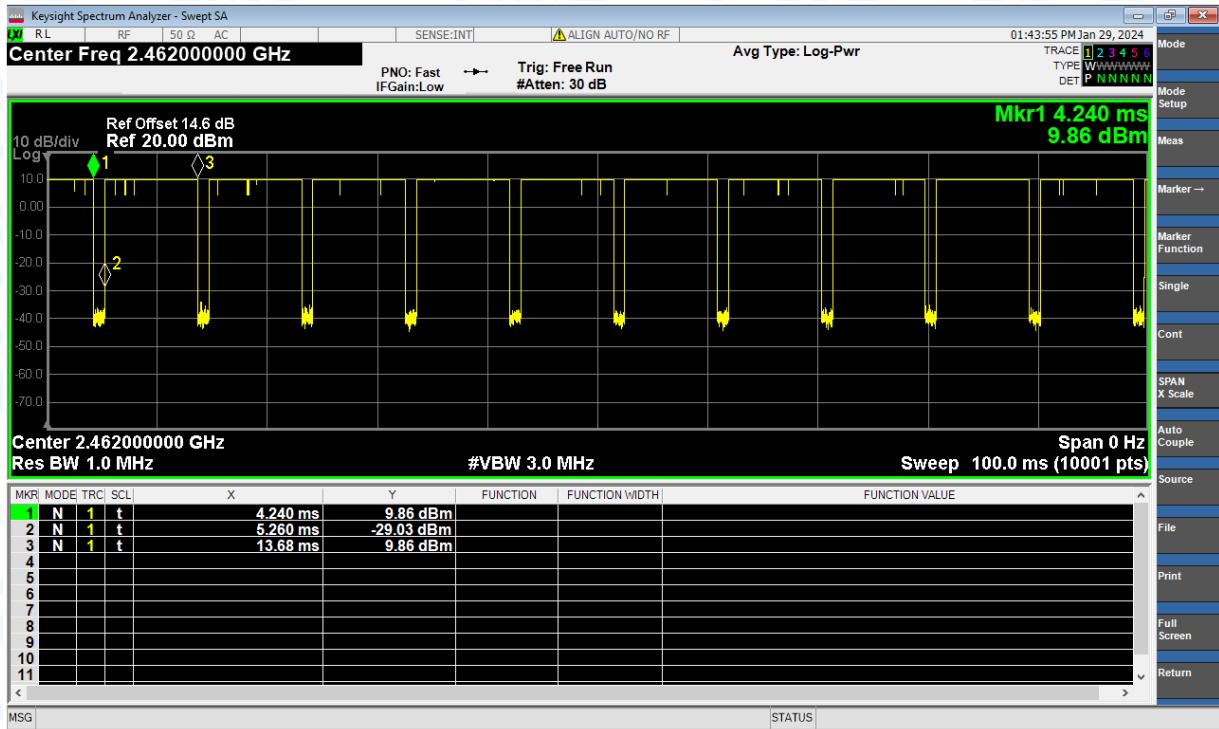
Duty Cycle NVNT b 2412MHz Ant1



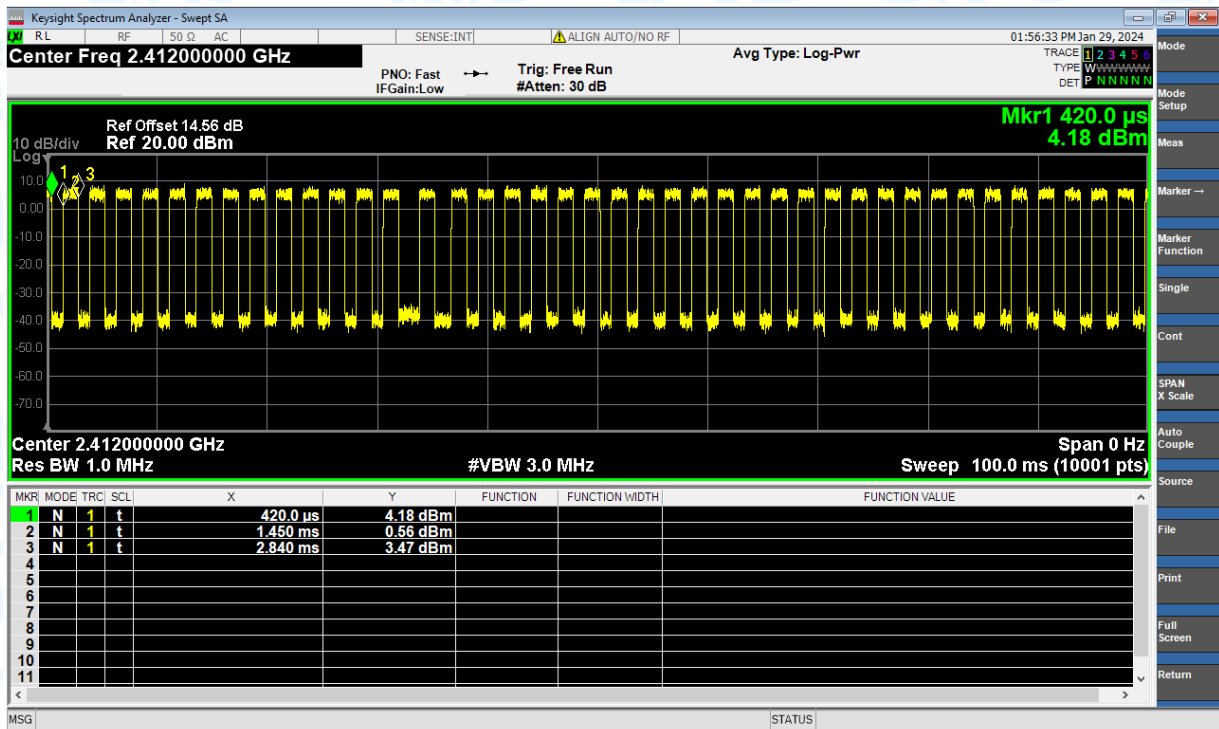
Duty Cycle NVNT b 2437MHz Ant1



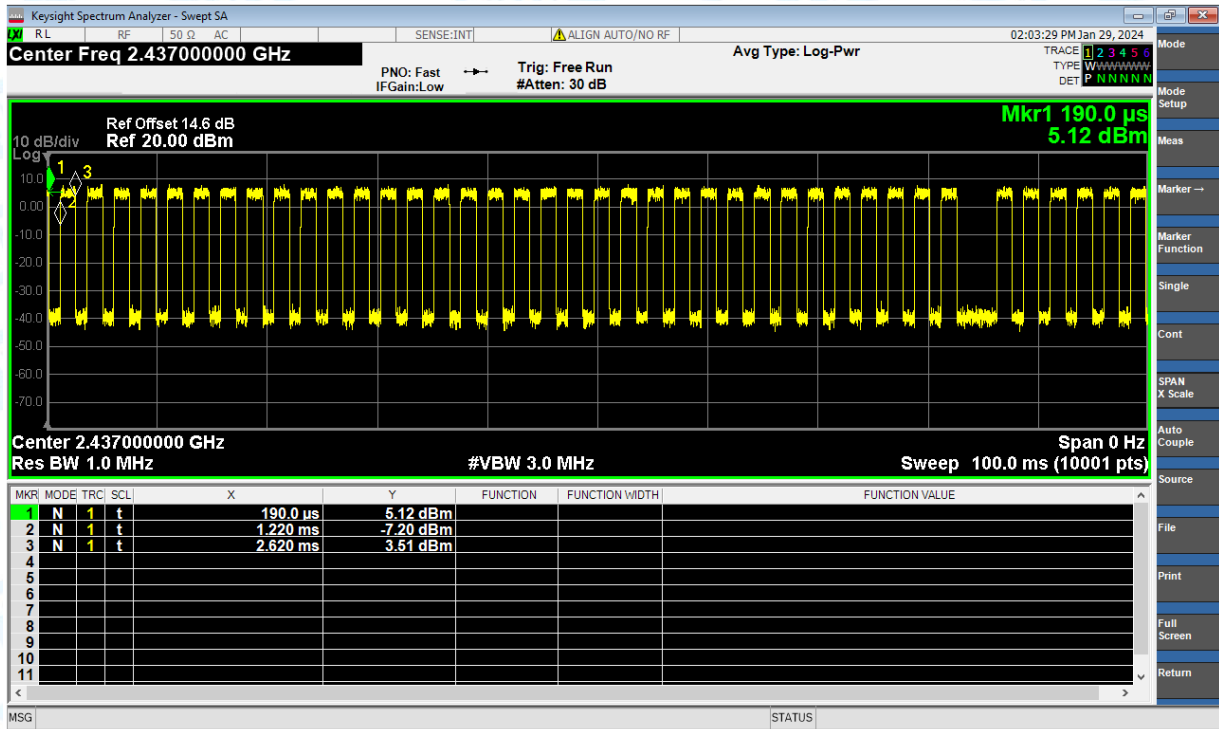
Duty Cycle NVNT b 2462MHz Ant1



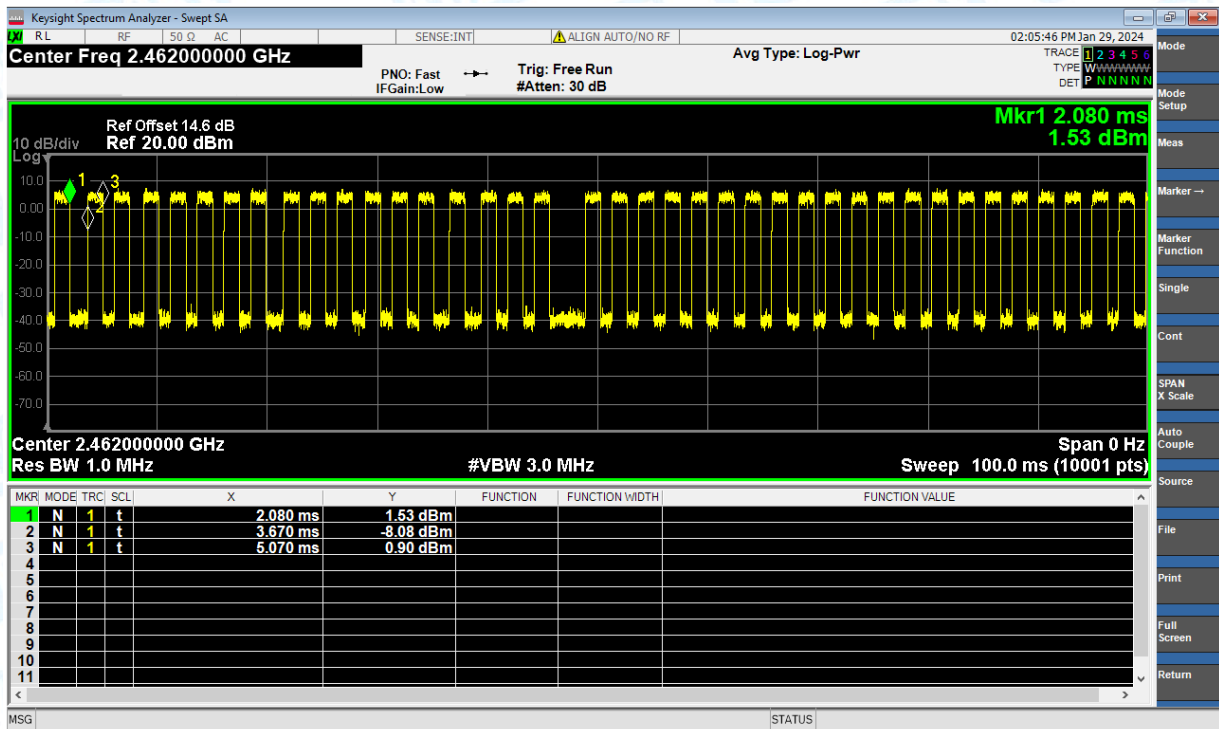
Duty Cycle NVNT g 2412MHz Ant1



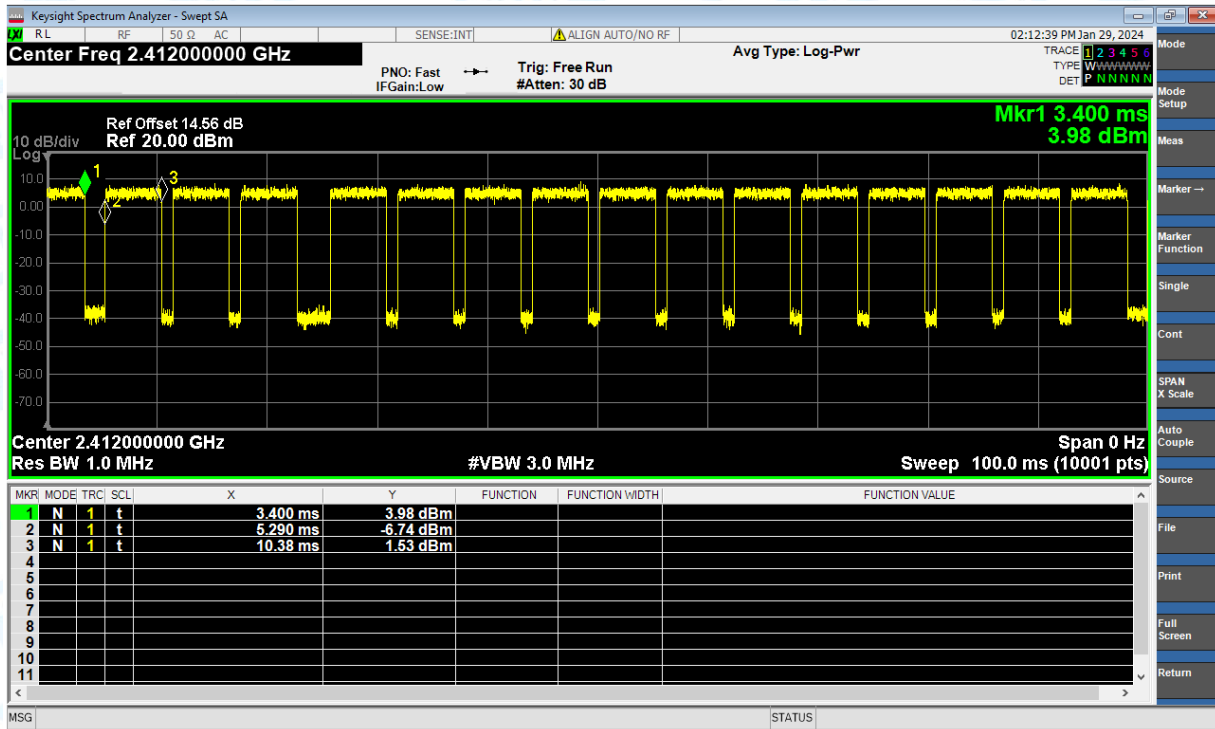
Duty Cycle NVNT g 2437MHz Ant1



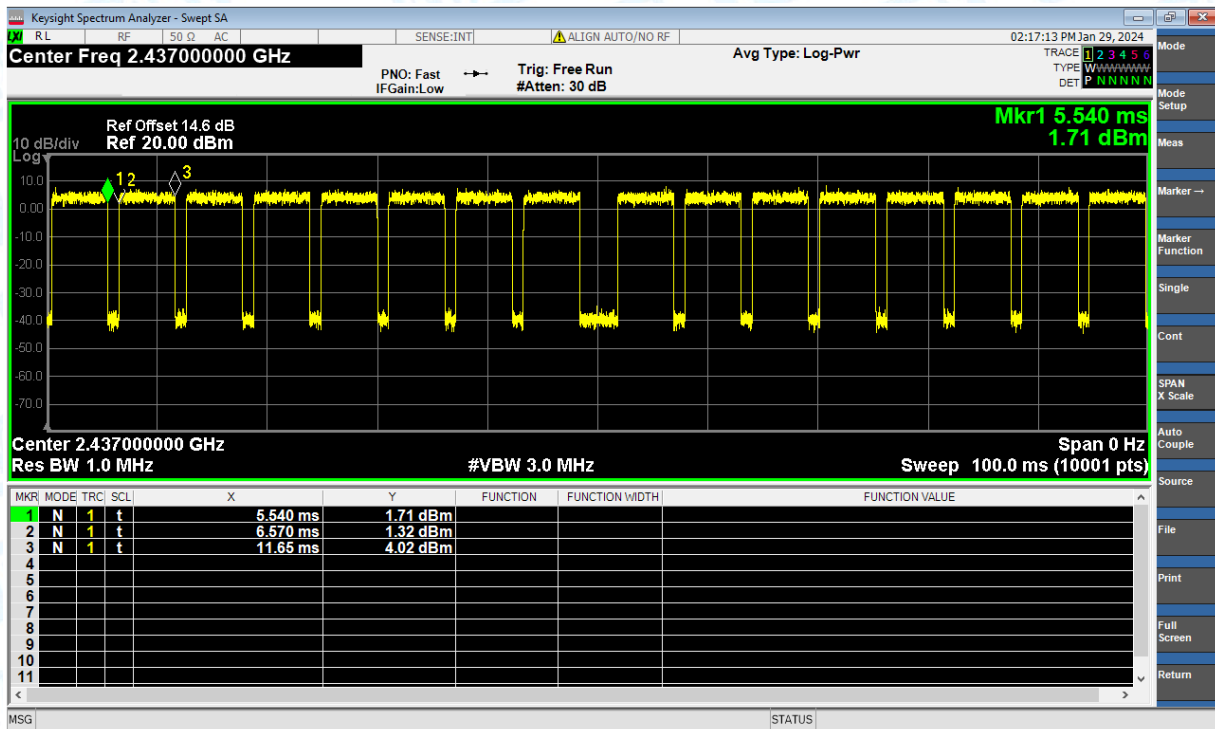
Duty Cycle NVNT g 2462MHz Ant1



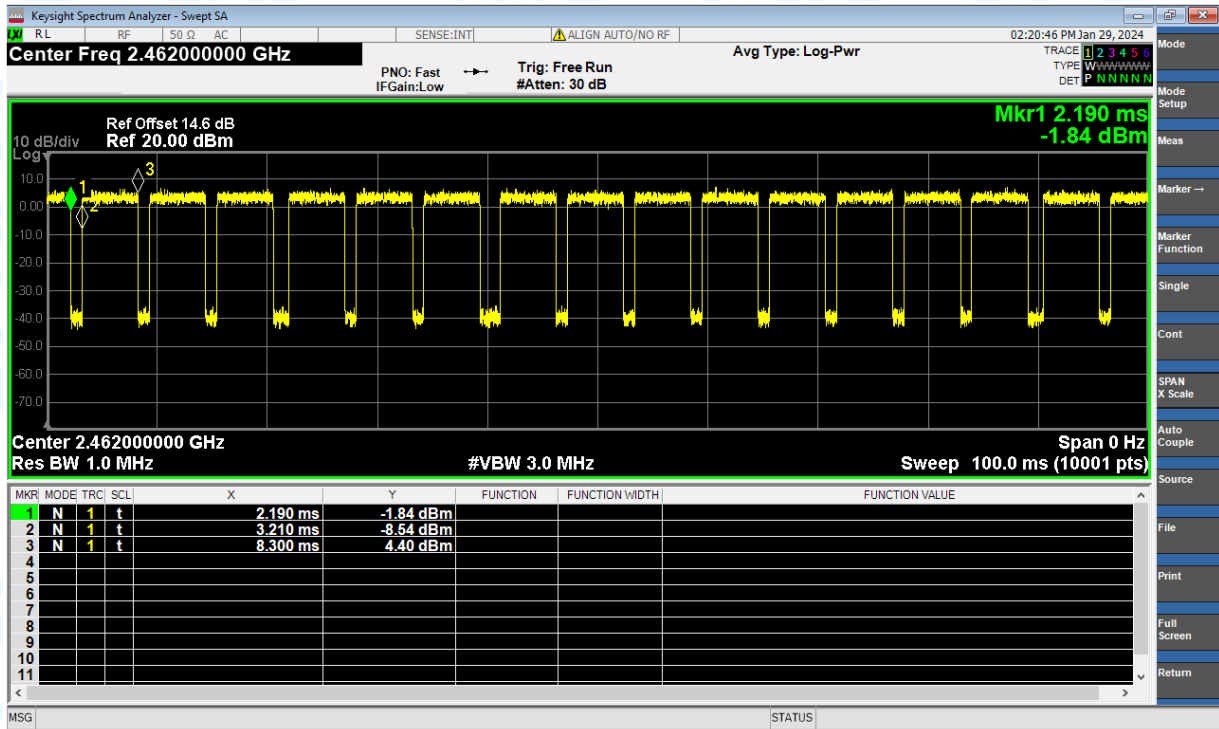
Duty Cycle NVNT n(HT20) 2412MHz Ant1



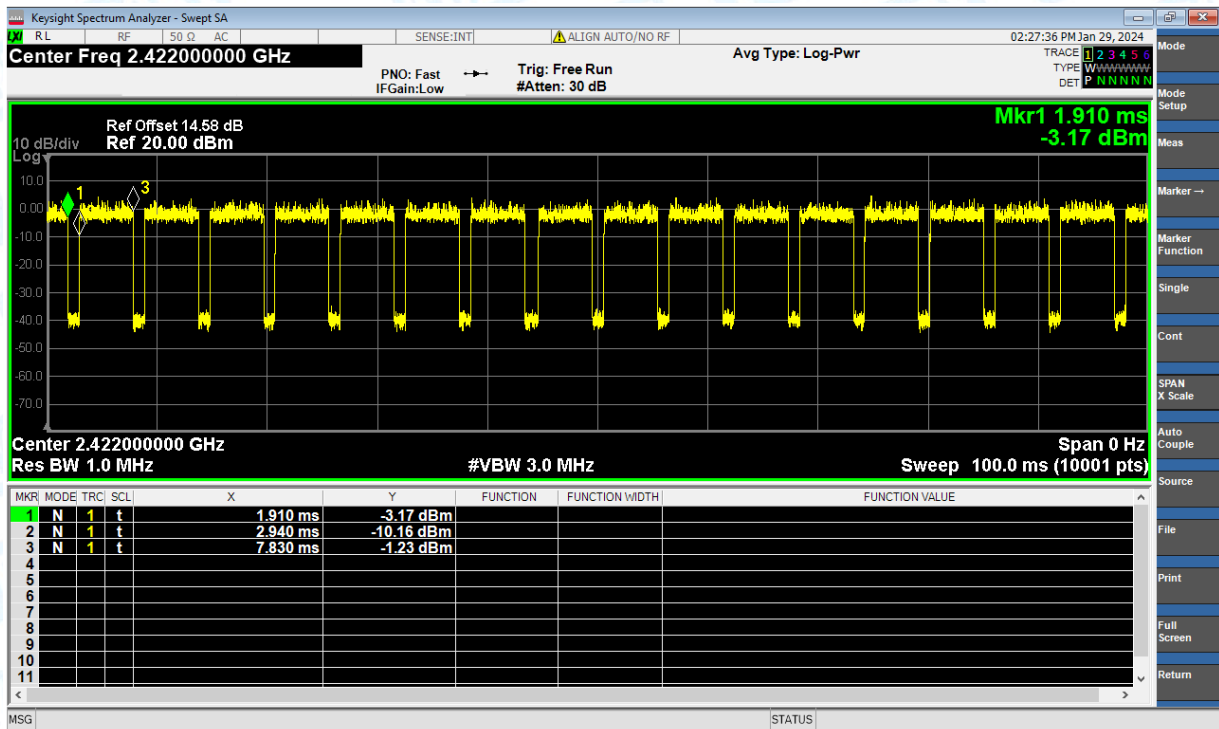
Duty Cycle NVNT n(HT20) 2437MHz Ant1



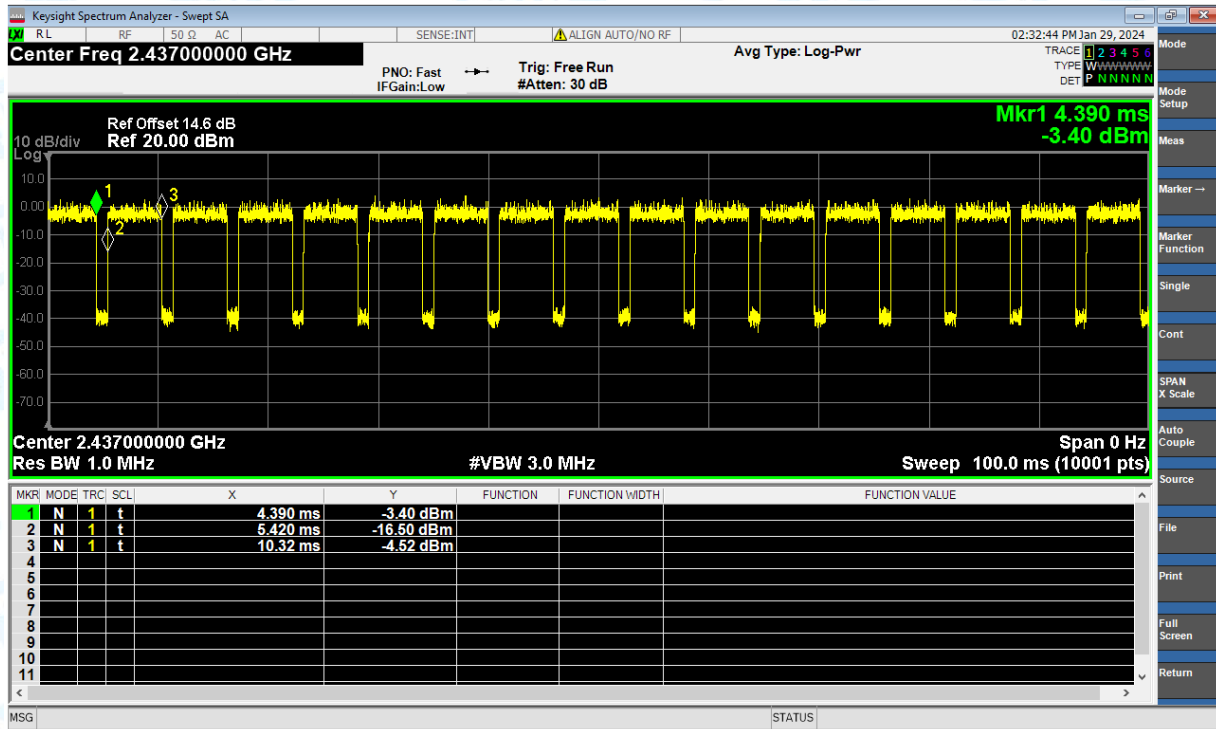
Duty Cycle NVNT n(HT20) 2462MHz Ant1



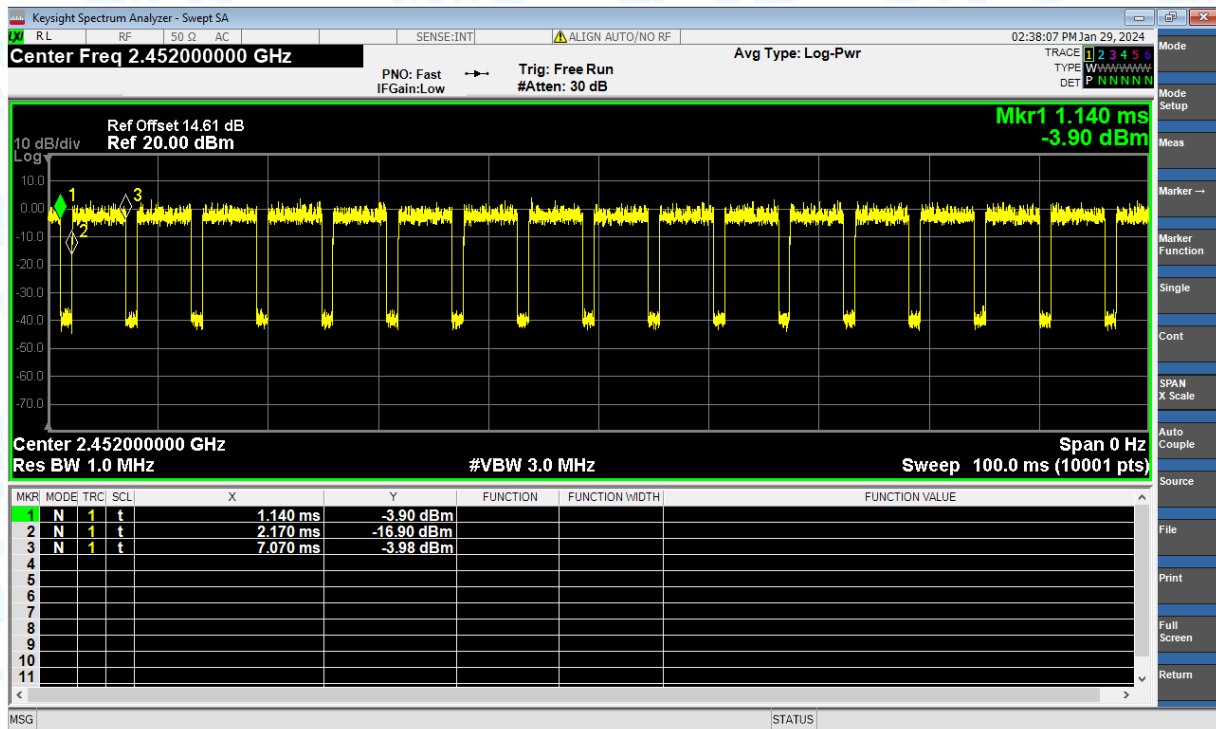
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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	10.58	30	Pass
NVNT	ax(VHT20)	2437	Ant1	9.88	30	Pass
NVNT	ax(VHT20)	2462	Ant1	9.08	30	Pass
NVNT	ax(VHT40)	2422	Ant1	9.16	30	Pass
NVNT	ax(VHT40)	2437	Ant1	8.69	30	Pass
NVNT	ax(VHT40)	2452	Ant1	8.67	30	Pass
NVNT	b	2412	Ant1	15.25	30	Pass
NVNT	b	2437	Ant1	15.91	30	Pass
NVNT	b	2462	Ant1	14.59	30	Pass
NVNT	g	2412	Ant1	13.81	30	Pass
NVNT	g	2437	Ant1	13.14	30	Pass
NVNT	g	2462	Ant1	13.25	30	Pass
NVNT	n(HT20)	2412	Ant1	12.62	30	Pass
NVNT	n(HT20)	2437	Ant1	11.42	30	Pass
NVNT	n(HT20)	2462	Ant1	10.65	30	Pass
NVNT	n(HT40)	2422	Ant1	10.93	30	Pass
NVNT	n(HT40)	2437	Ant1	11.35	30	Pass
NVNT	n(HT40)	2452	Ant1	10.88	30	Pass

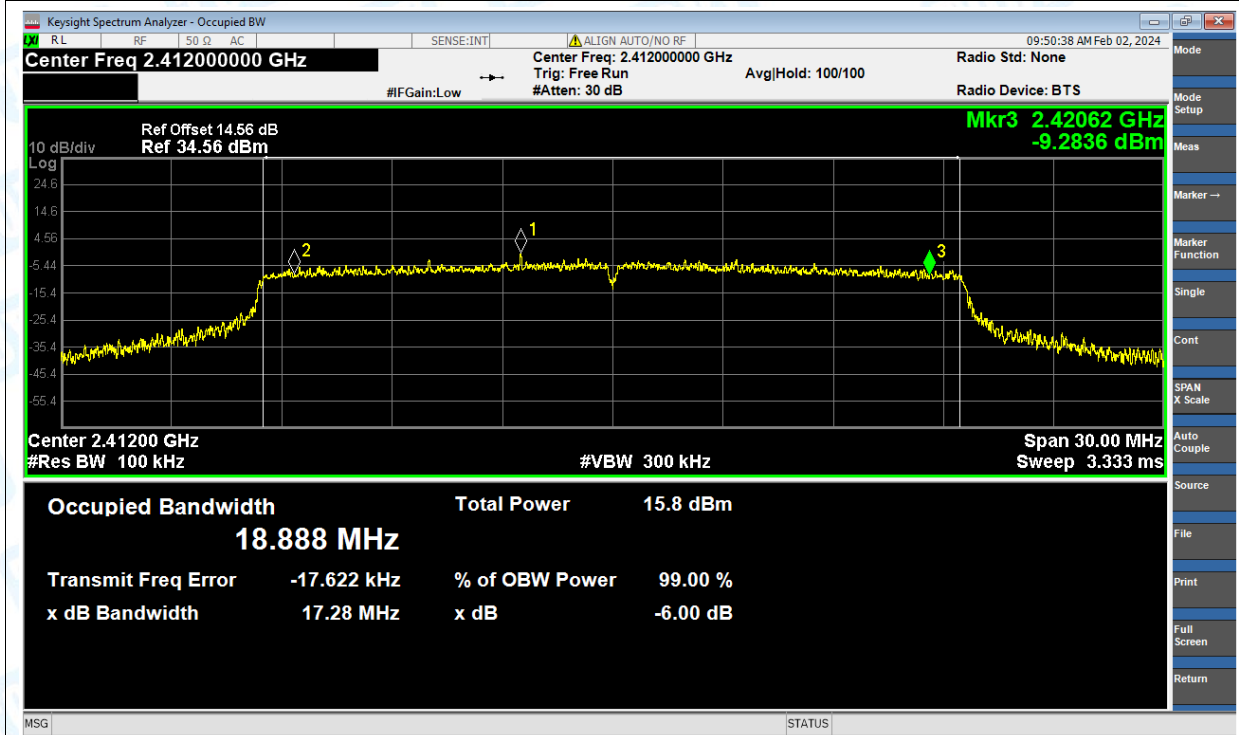
Note: The duty factor has been compensated into the result.

3. -6dB Bandwidth

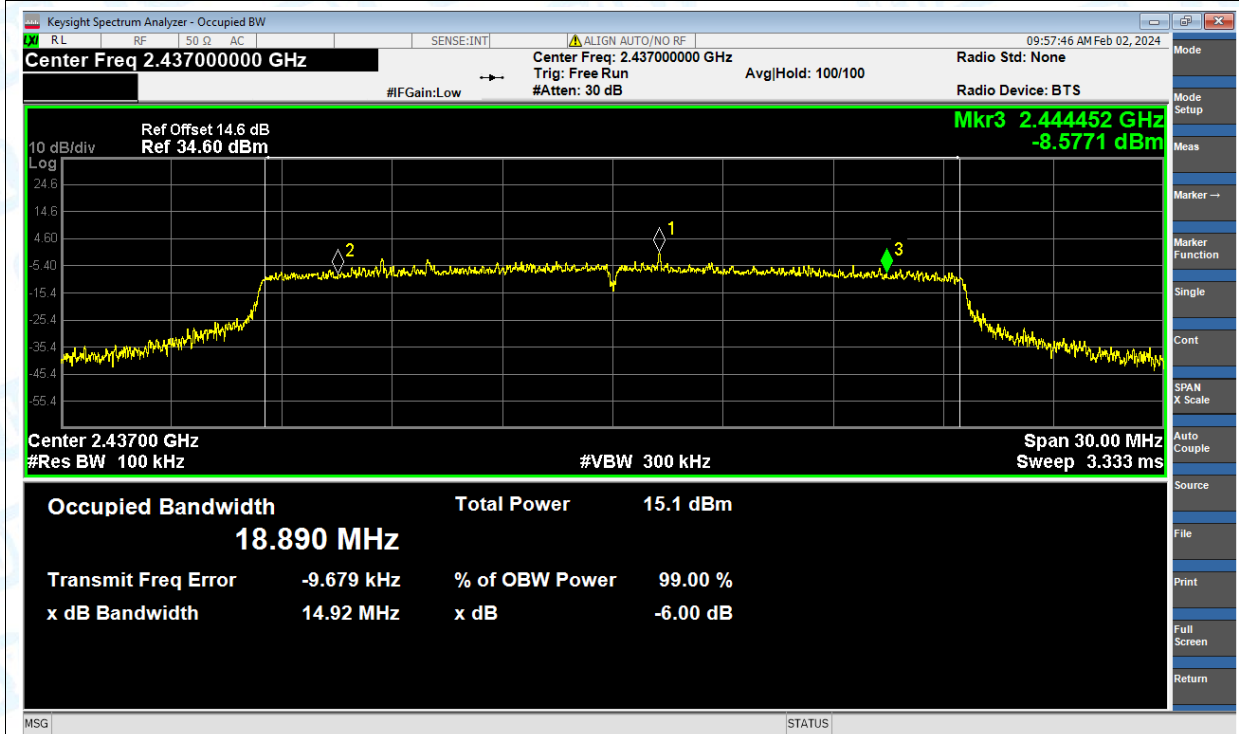
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	17.28	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	14.92	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	18.31	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	37.71	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	36.42	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	36.25	0.5	Pass
NVNT	b	2412	Ant1	7.57	0.5	Pass
NVNT	b	2437	Ant1	8.53	0.5	Pass
NVNT	b	2462	Ant1	7.06	0.5	Pass
NVNT	g	2412	Ant1	15.55	0.5	Pass
NVNT	g	2437	Ant1	13.55	0.5	Pass
NVNT	g	2462	Ant1	13.17	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.55	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.52	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.56	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.62	0.5	Pass
NVNT	n(HT40)	2437	Ant1	33.82	0.5	Pass
NVNT	n(HT40)	2452	Ant1	33.41	0.5	Pass

Test Graphs

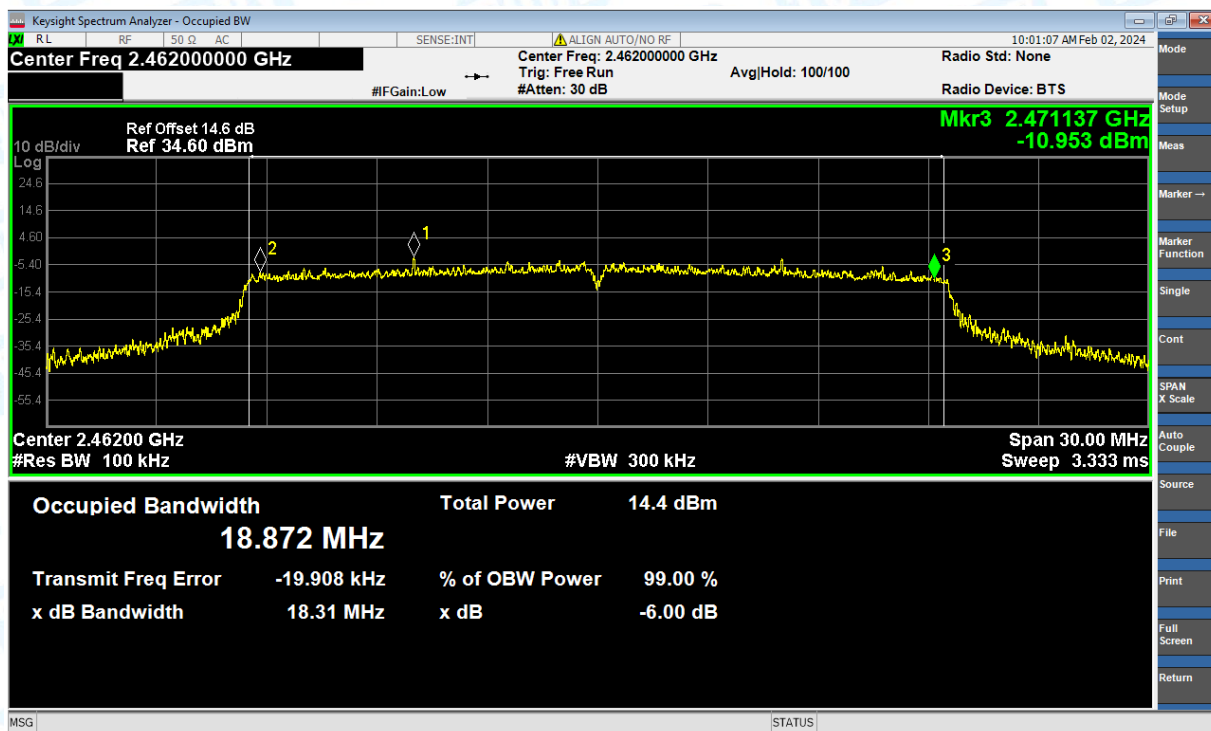
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



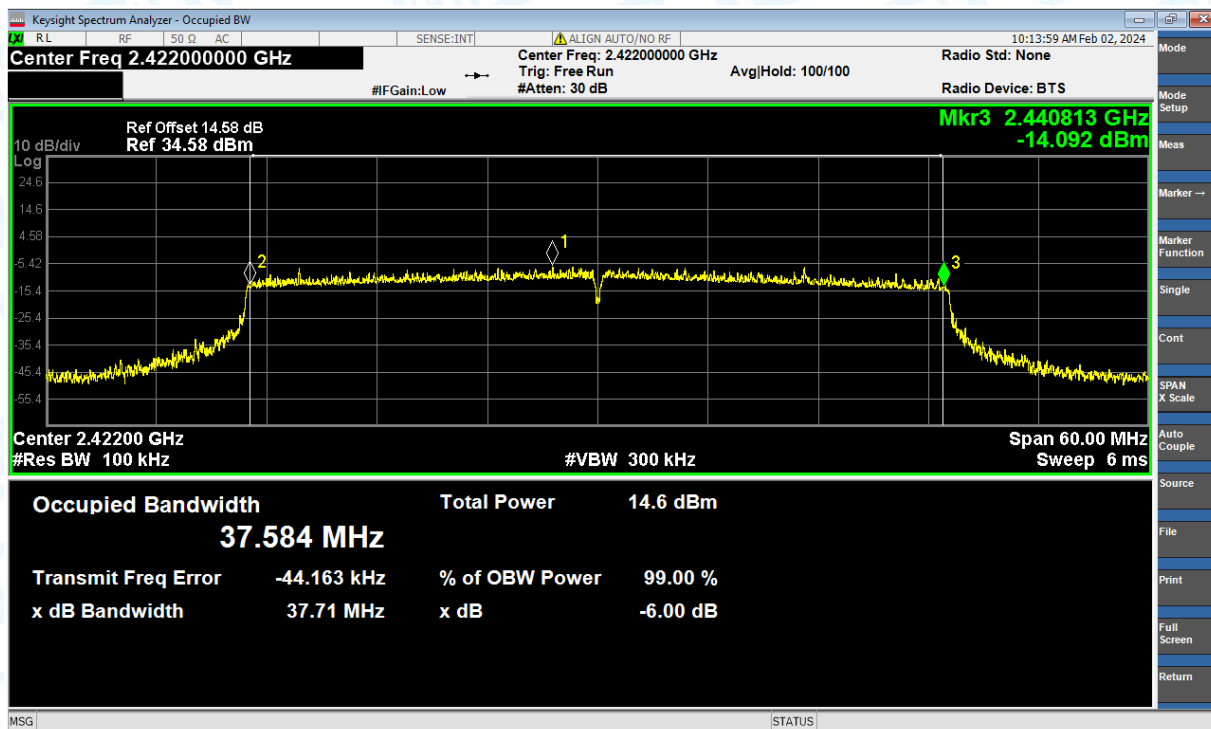
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



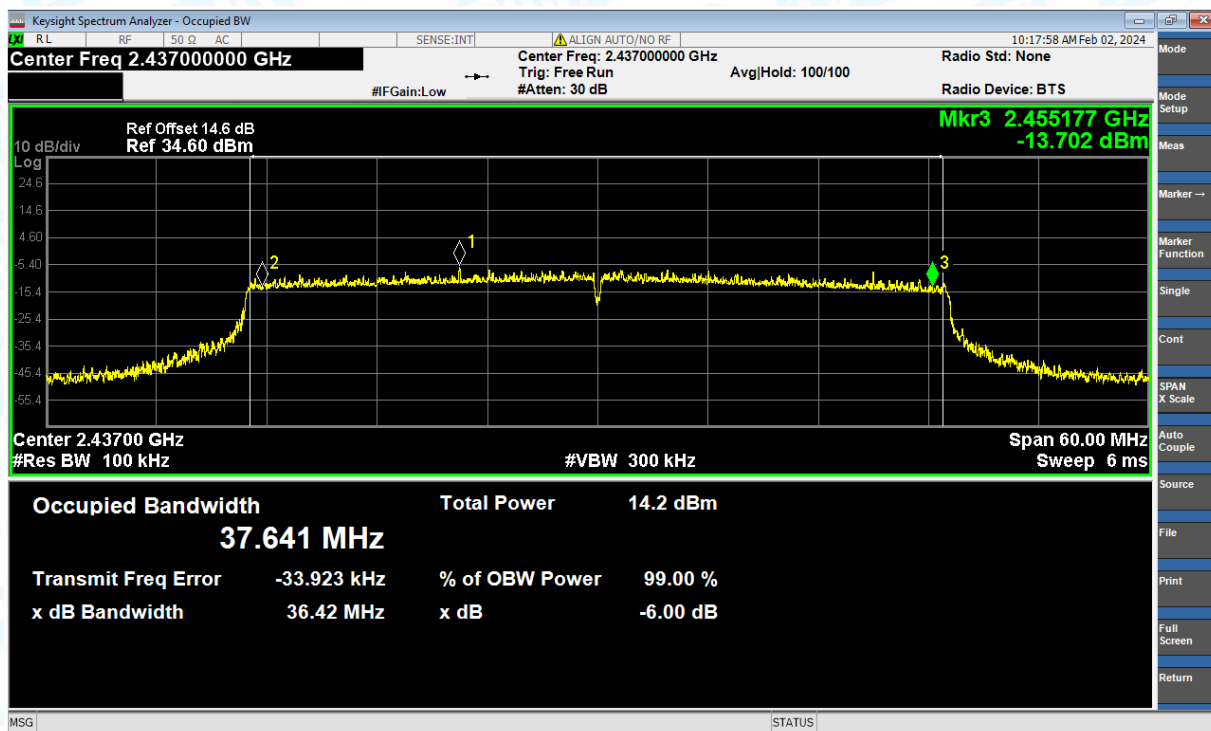
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



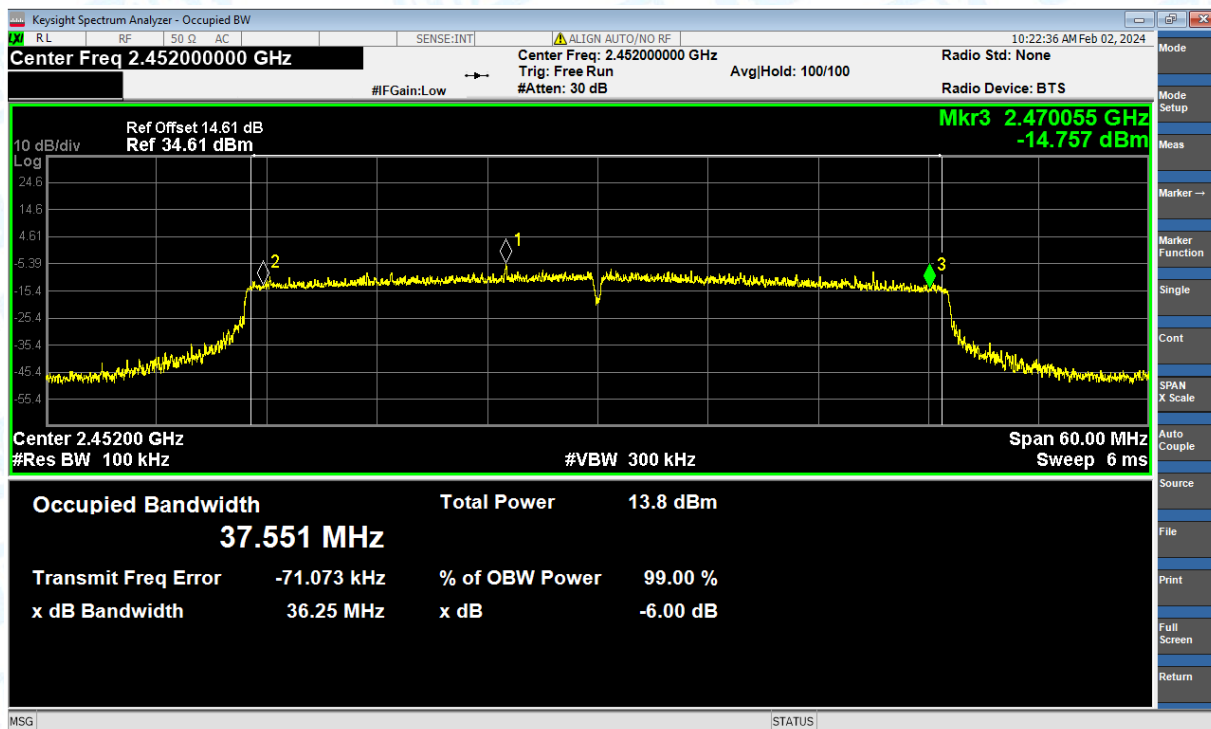
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



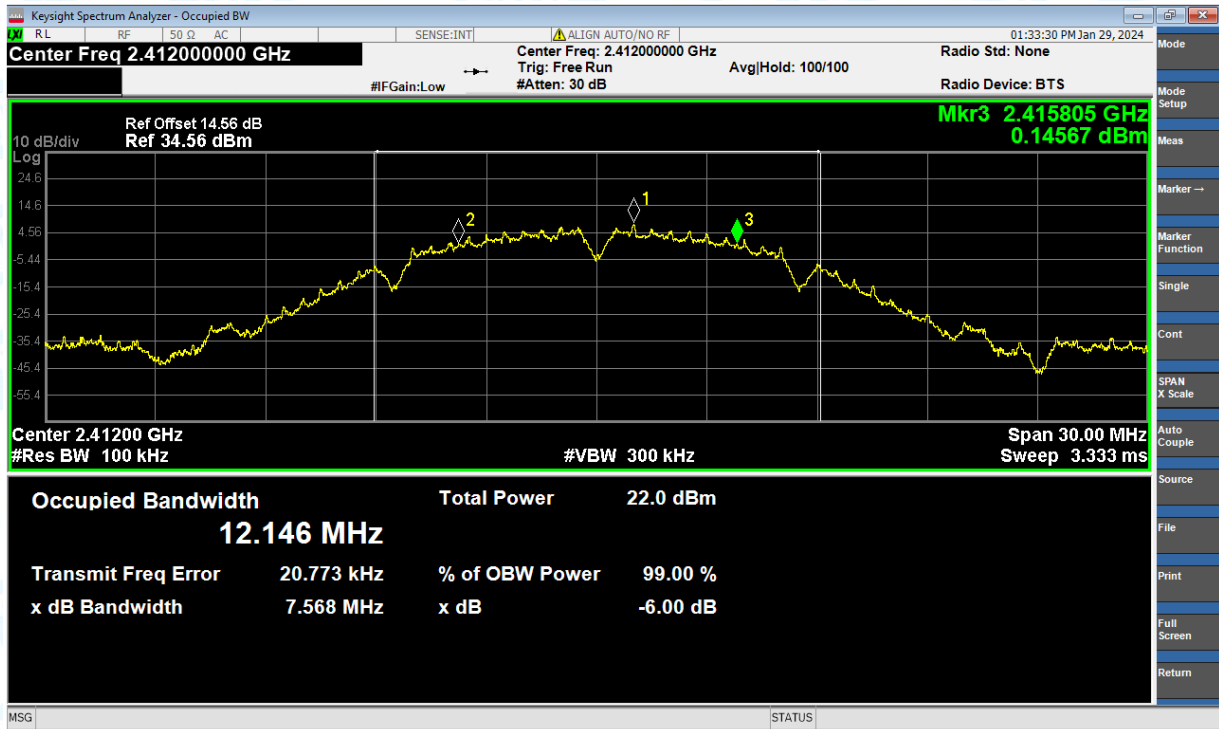
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



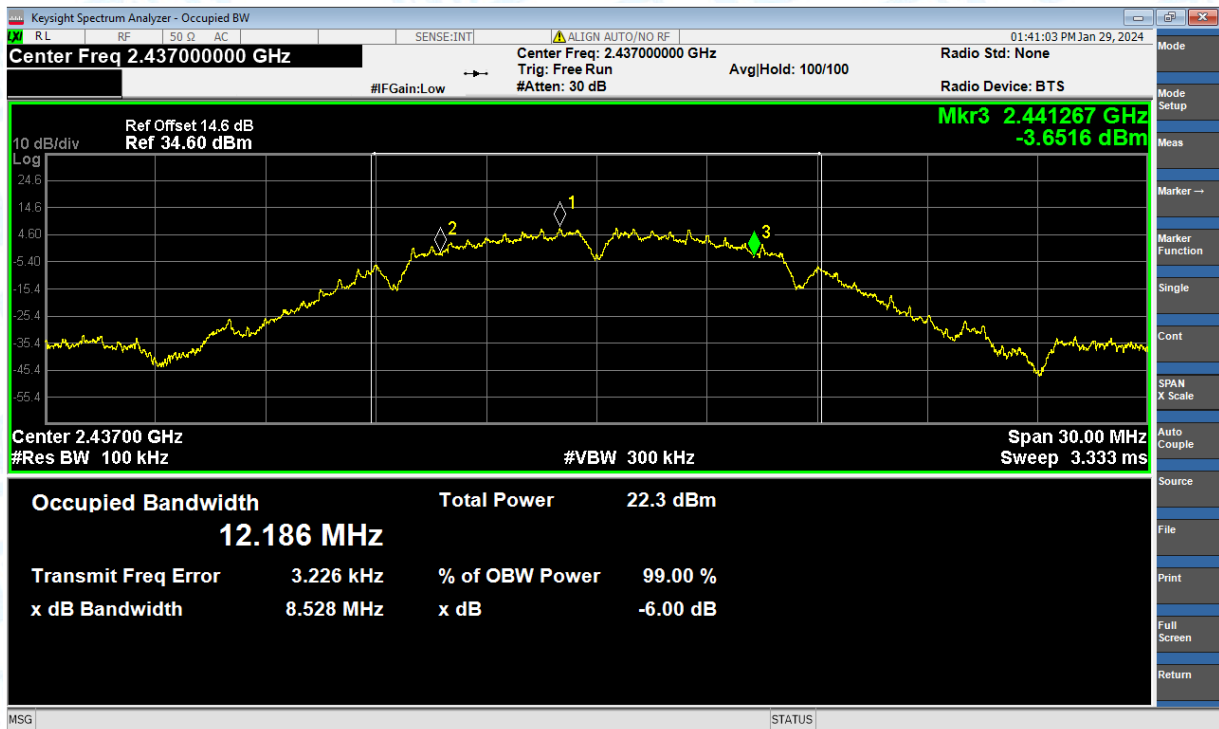
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



-6dB Bandwidth NVNT b 2412MHz Ant1



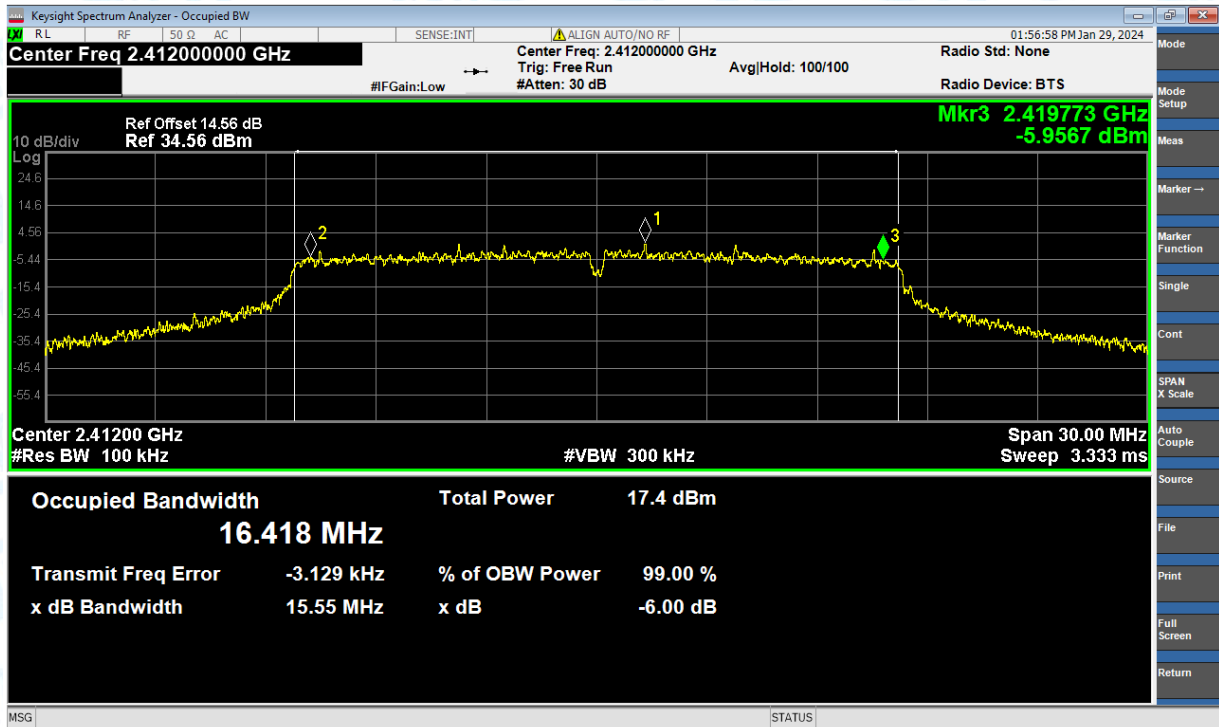
-6dB Bandwidth NVNT b 2437MHz Ant1



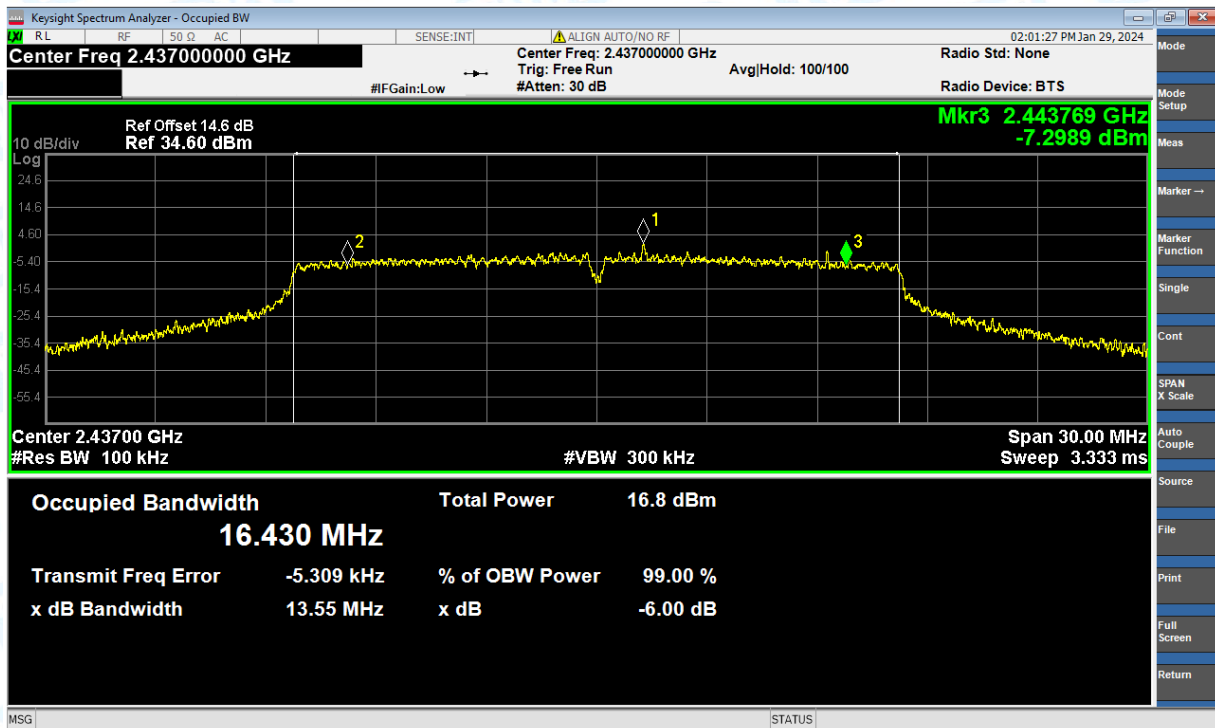
-6dB Bandwidth NVNT b 2462MHz Ant1



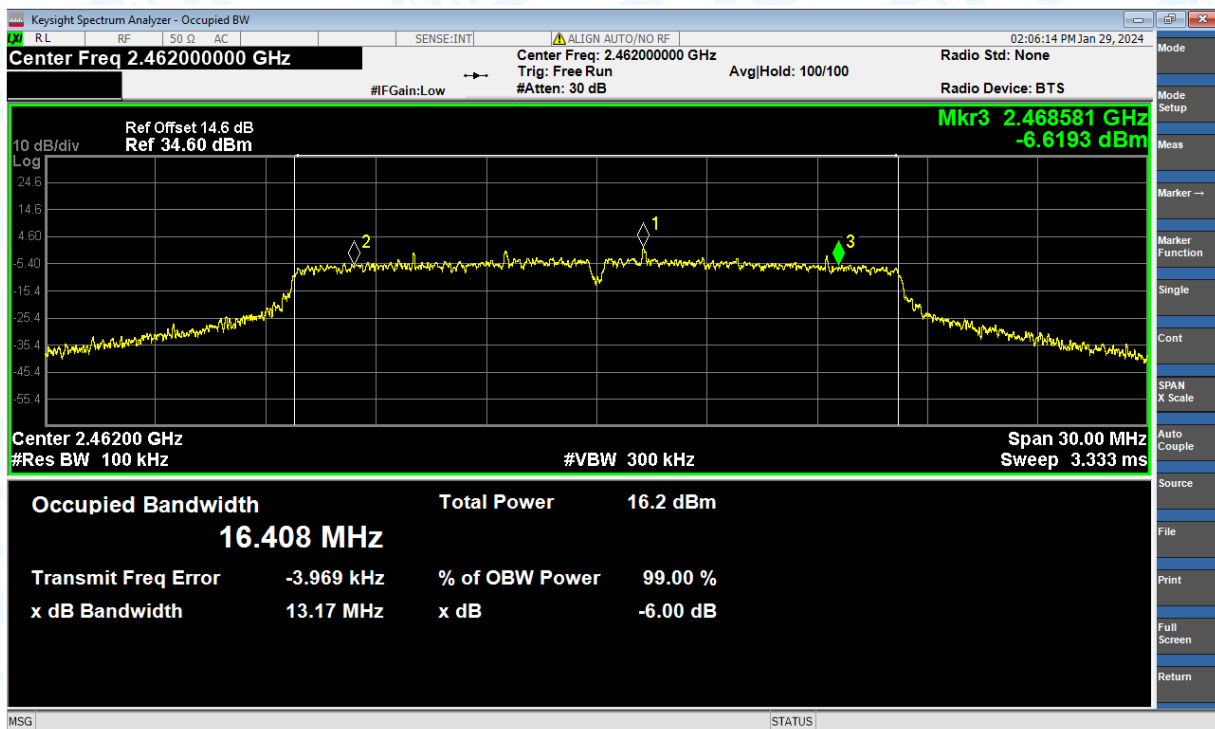
-6dB Bandwidth NVNT g 2412MHz Ant1



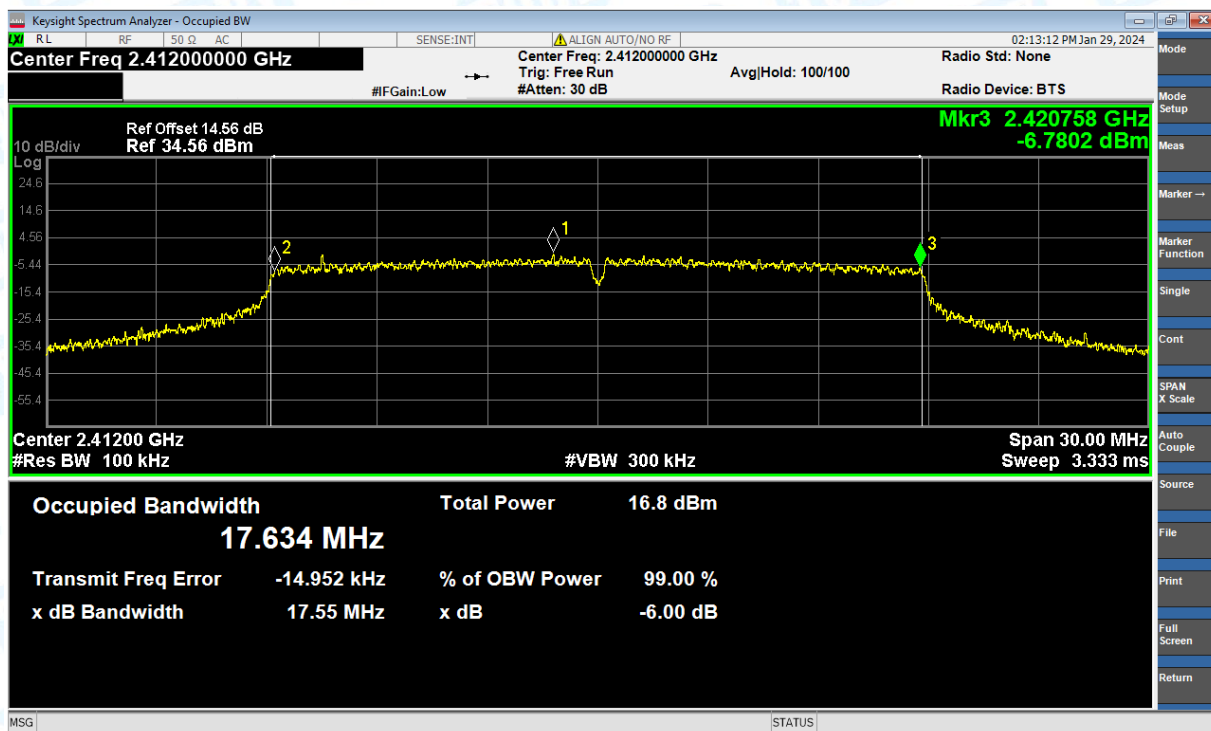
-6dB Bandwidth NVNT g 2437MHz Ant1



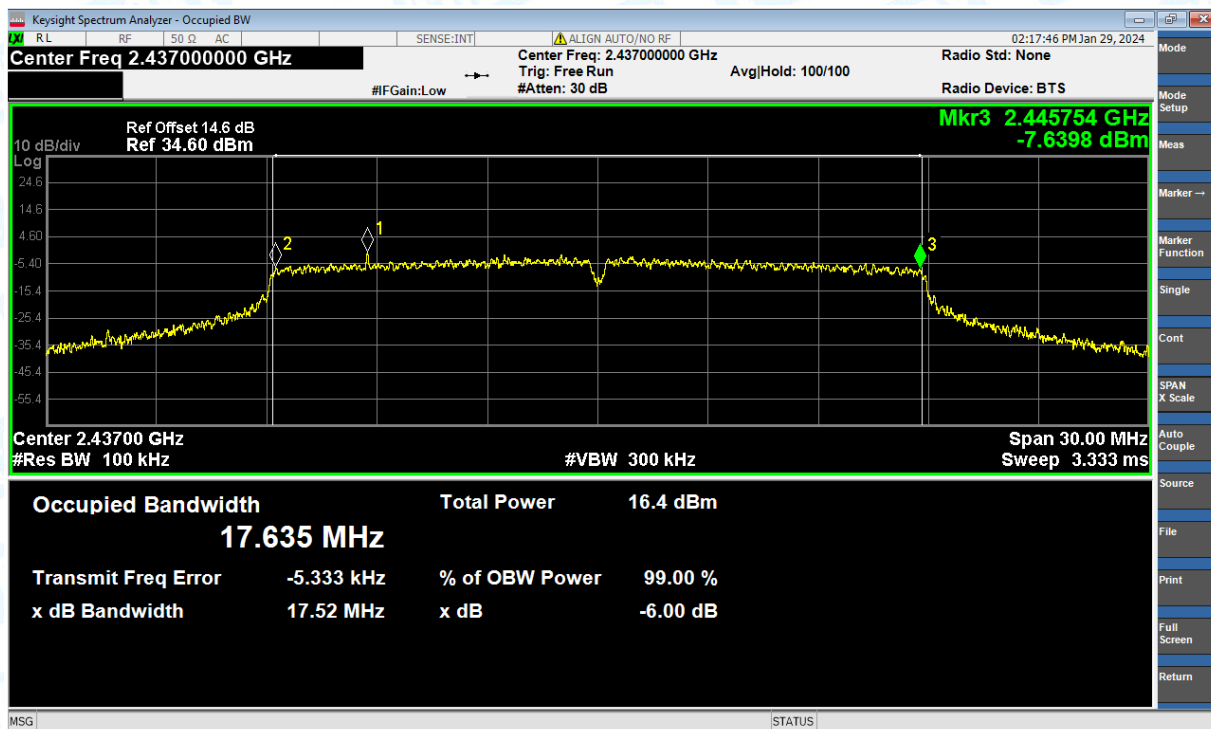
-6dB Bandwidth NVNT g 2462MHz Ant1



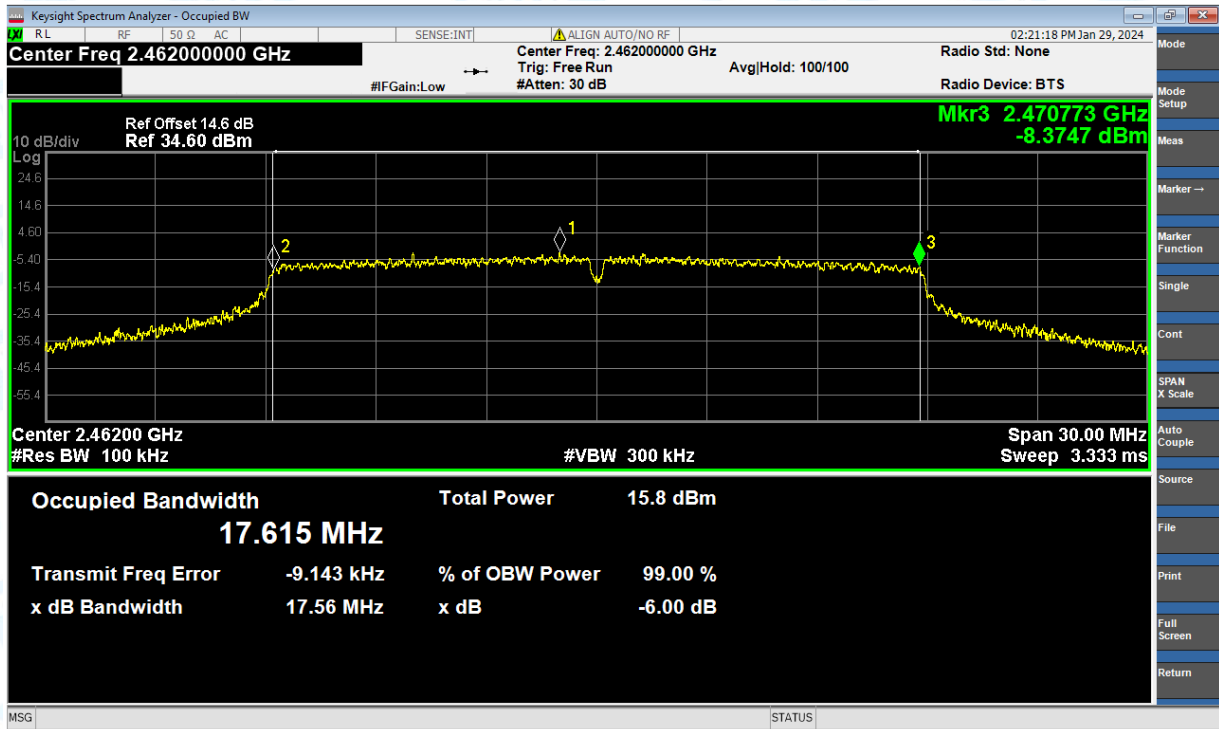
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



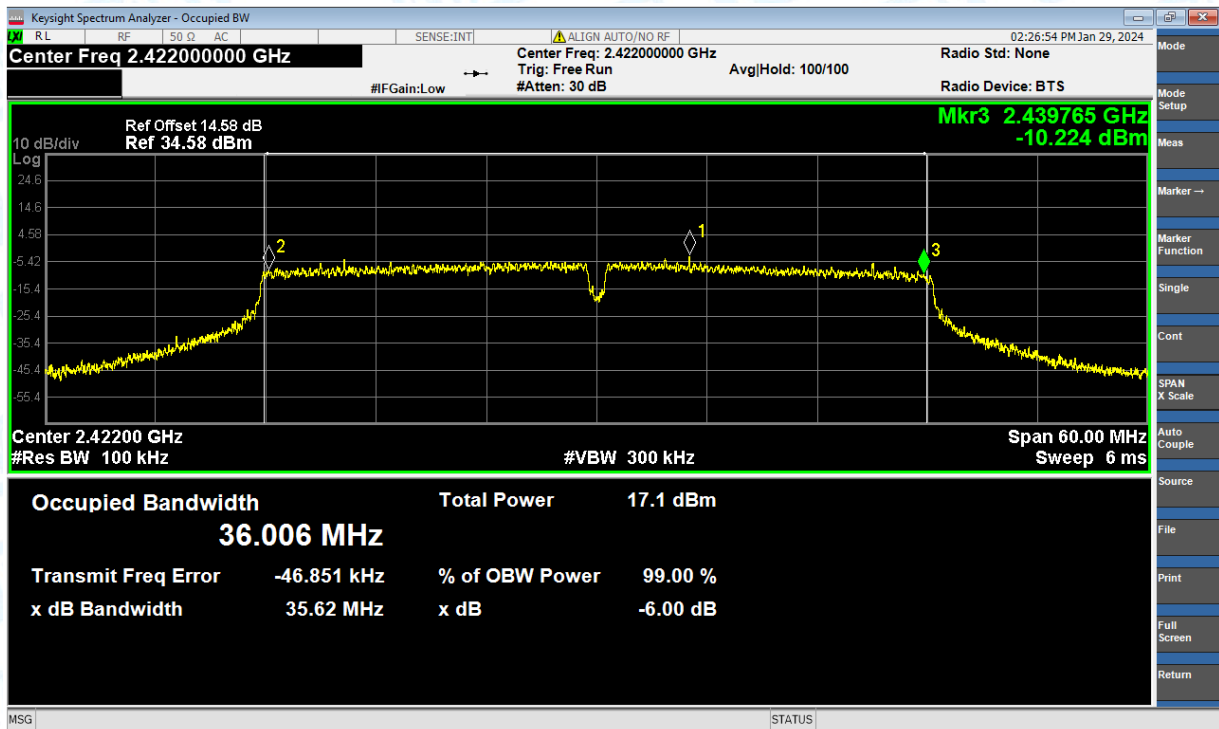
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



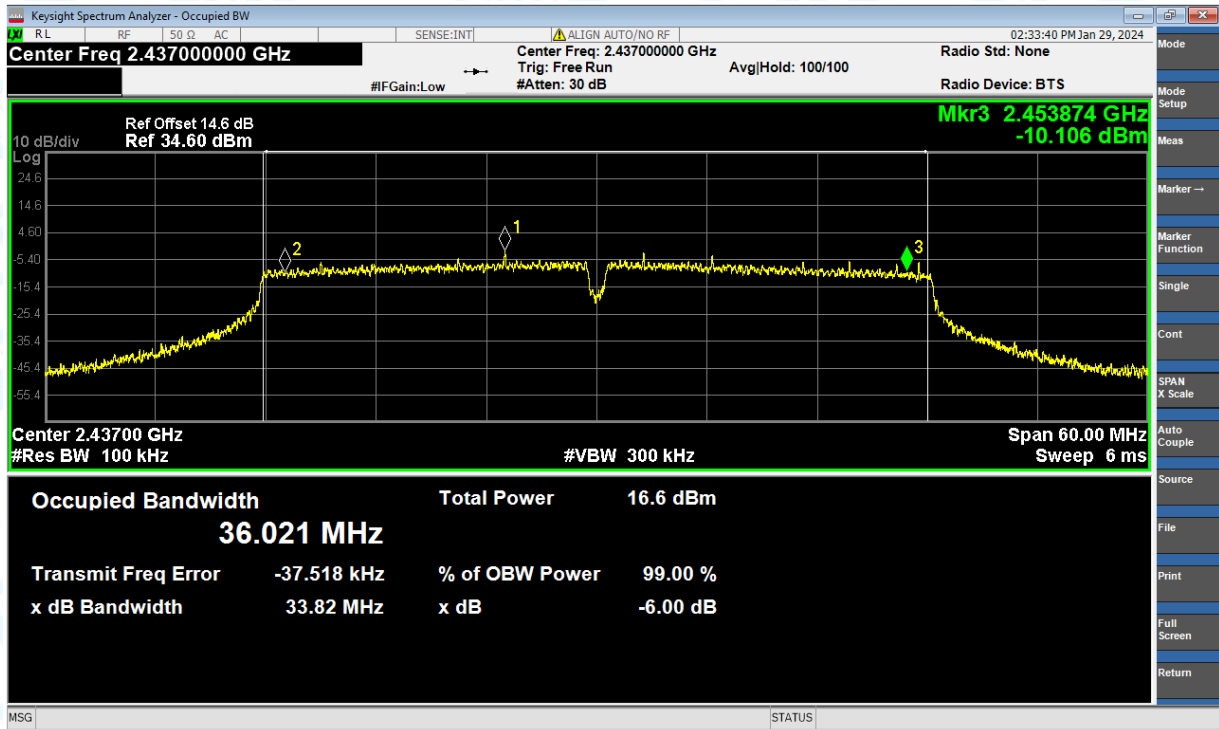
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



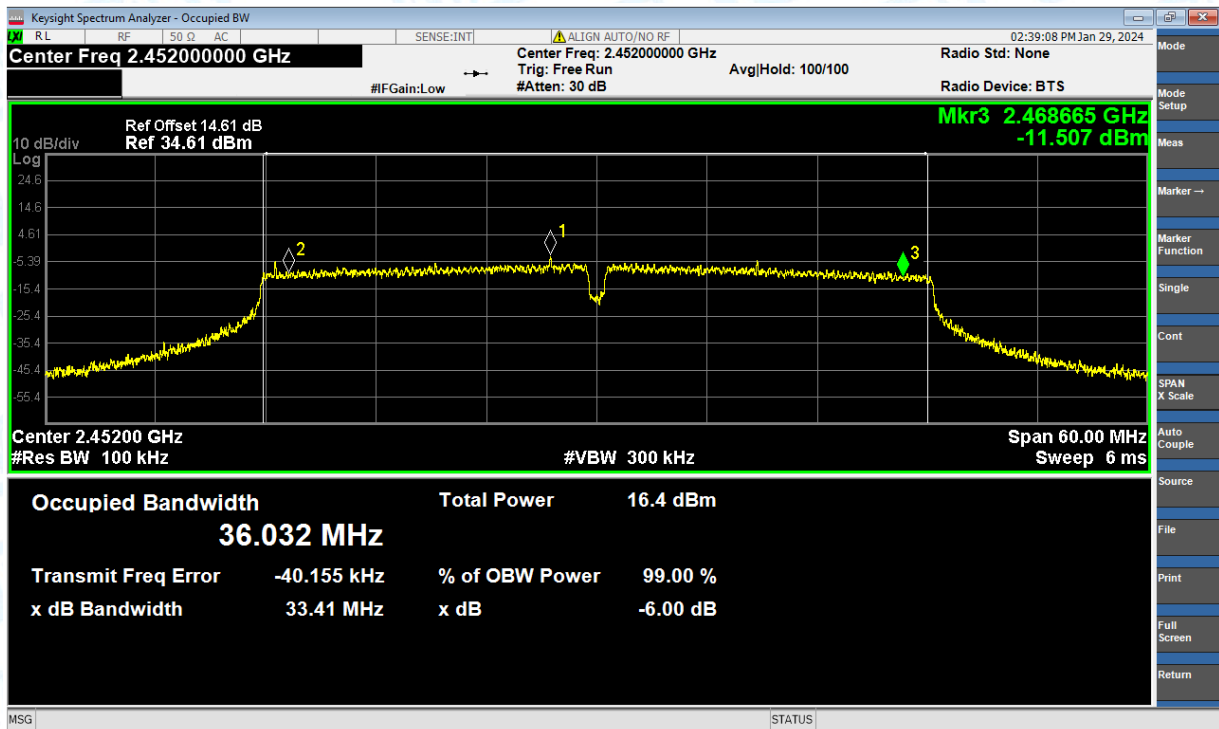
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

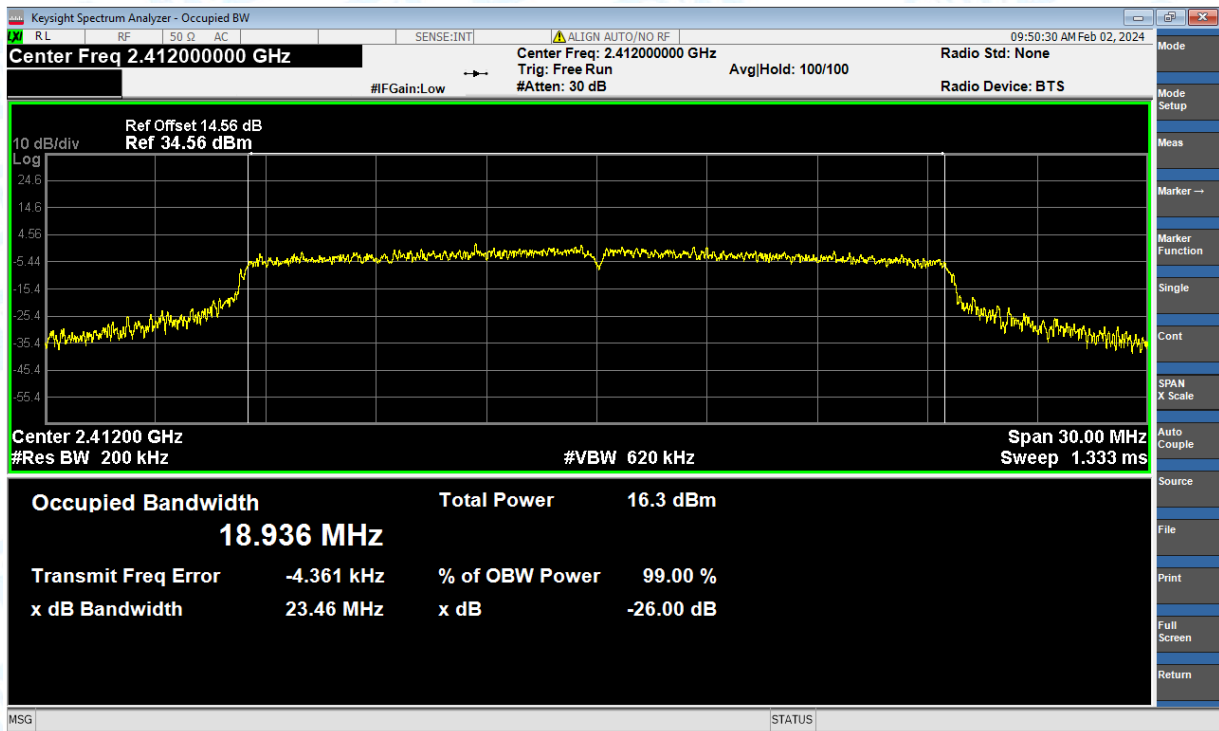


4. Occupied Channel Bandwidth

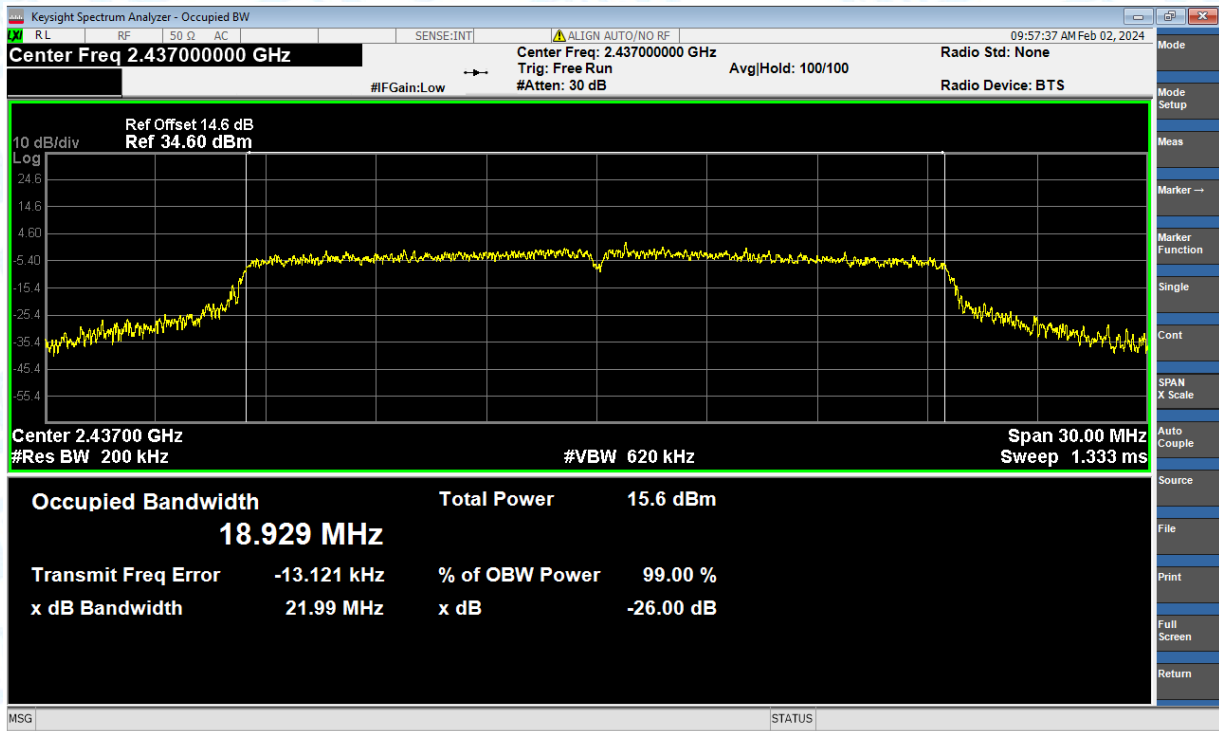
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.936
NVNT	ax(VHT20)	2437	Ant1	18.929
NVNT	ax(VHT20)	2462	Ant1	18.917
NVNT	ax(VHT40)	2422	Ant1	37.685
NVNT	ax(VHT40)	2437	Ant1	37.638
NVNT	ax(VHT40)	2452	Ant1	37.686
NVNT	b	2412	Ant1	12.095
NVNT	b	2437	Ant1	12.158
NVNT	b	2462	Ant1	12.063
NVNT	g	2412	Ant1	16.516
NVNT	g	2437	Ant1	16.53
NVNT	g	2462	Ant1	16.5
NVNT	n(HT20)	2412	Ant1	17.736
NVNT	n(HT20)	2437	Ant1	17.708
NVNT	n(HT20)	2462	Ant1	17.696
NVNT	n(HT40)	2422	Ant1	36.153
NVNT	n(HT40)	2437	Ant1	36.141
NVNT	n(HT40)	2452	Ant1	36.212

Test Graphs

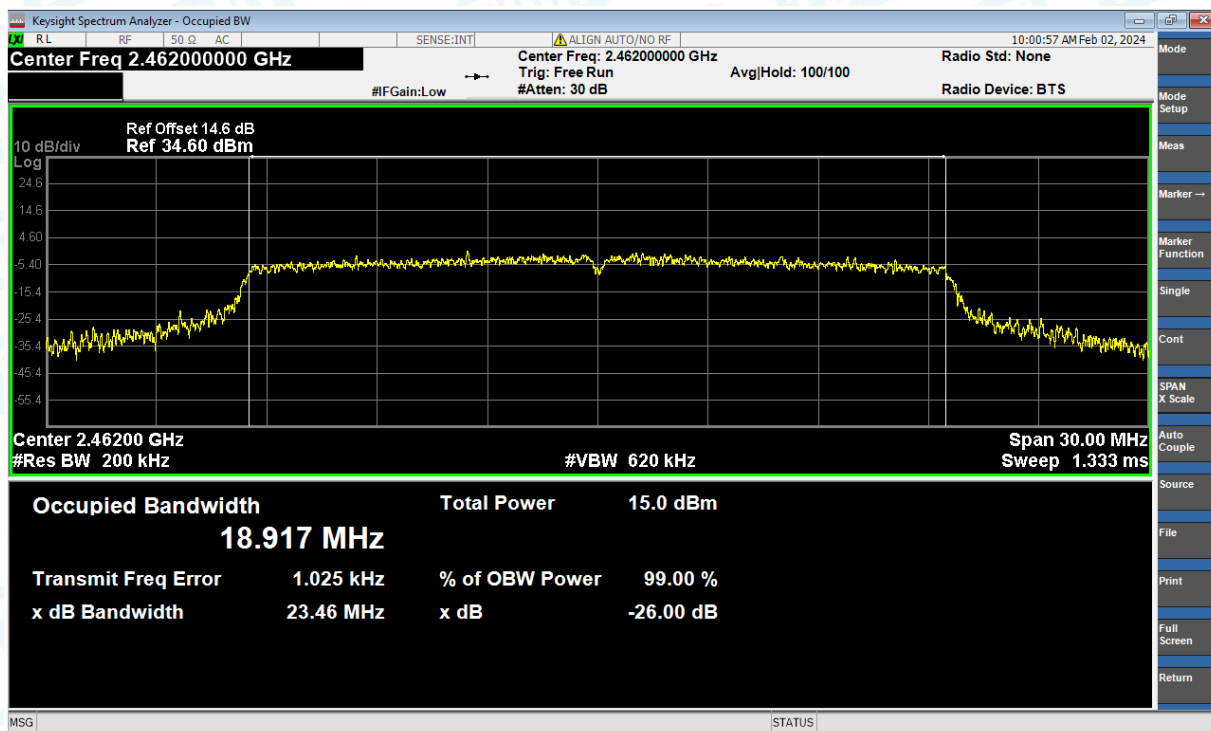
OBW NVNT ax(VHT20) 2412MHz Ant1



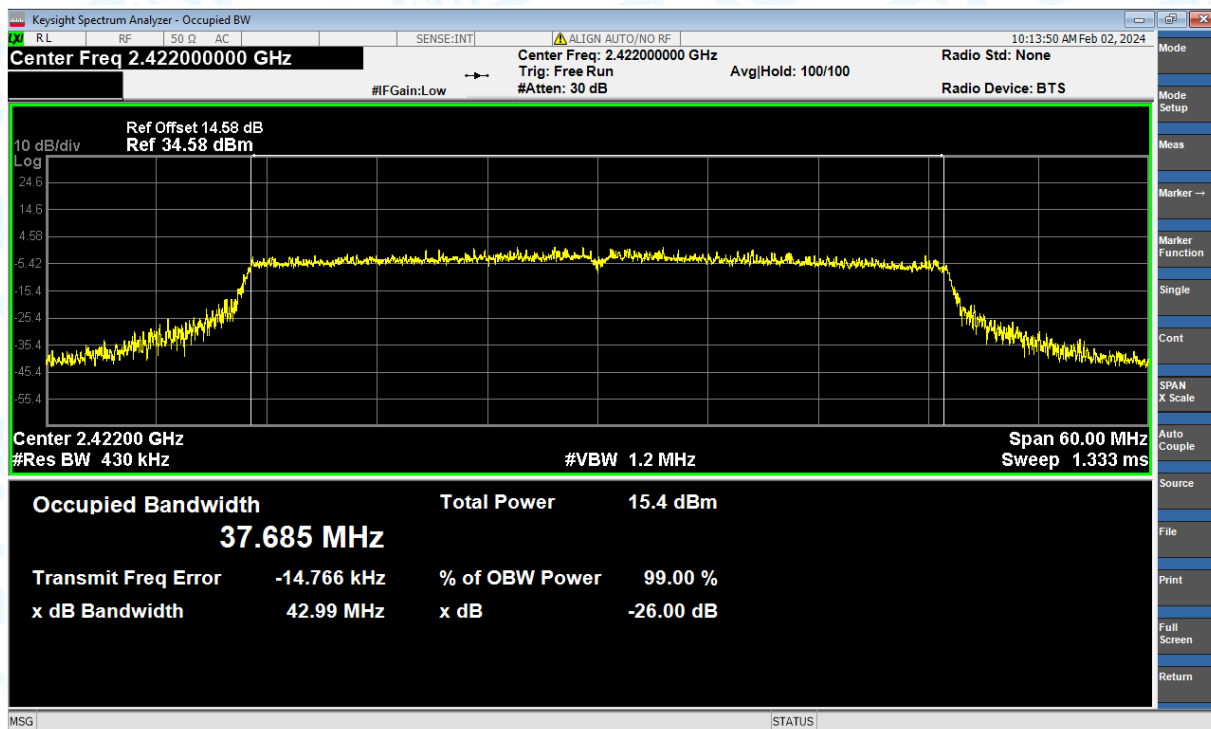
OBW NVNT ax(VHT20) 2437MHz Ant1



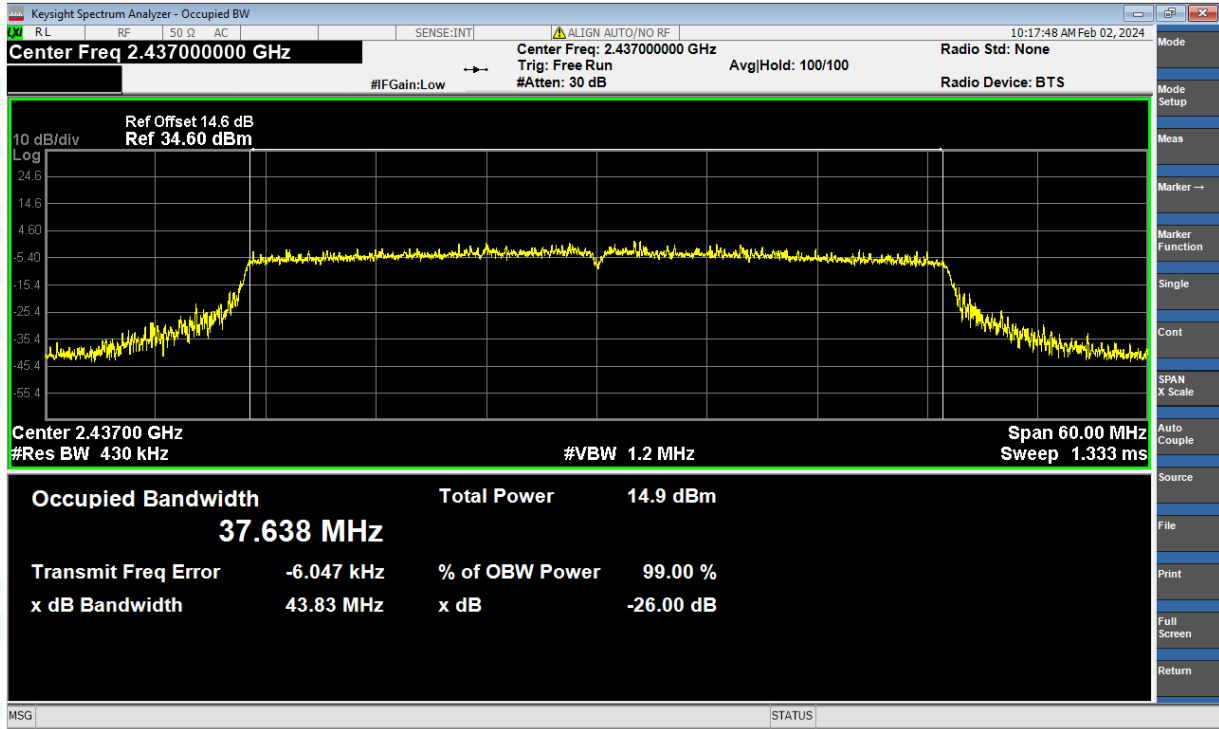
OBW NVNT ax(VHT20) 2462MHz Ant1



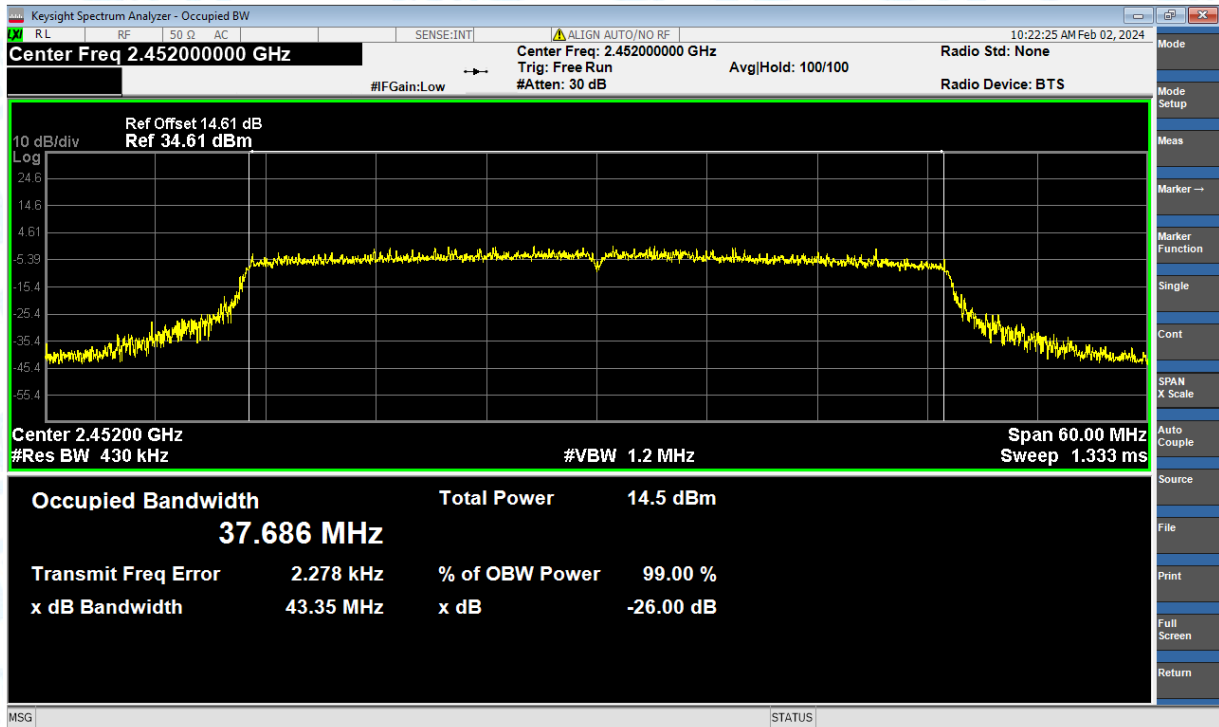
OBW NVNT ax(VHT40) 2422MHz Ant1



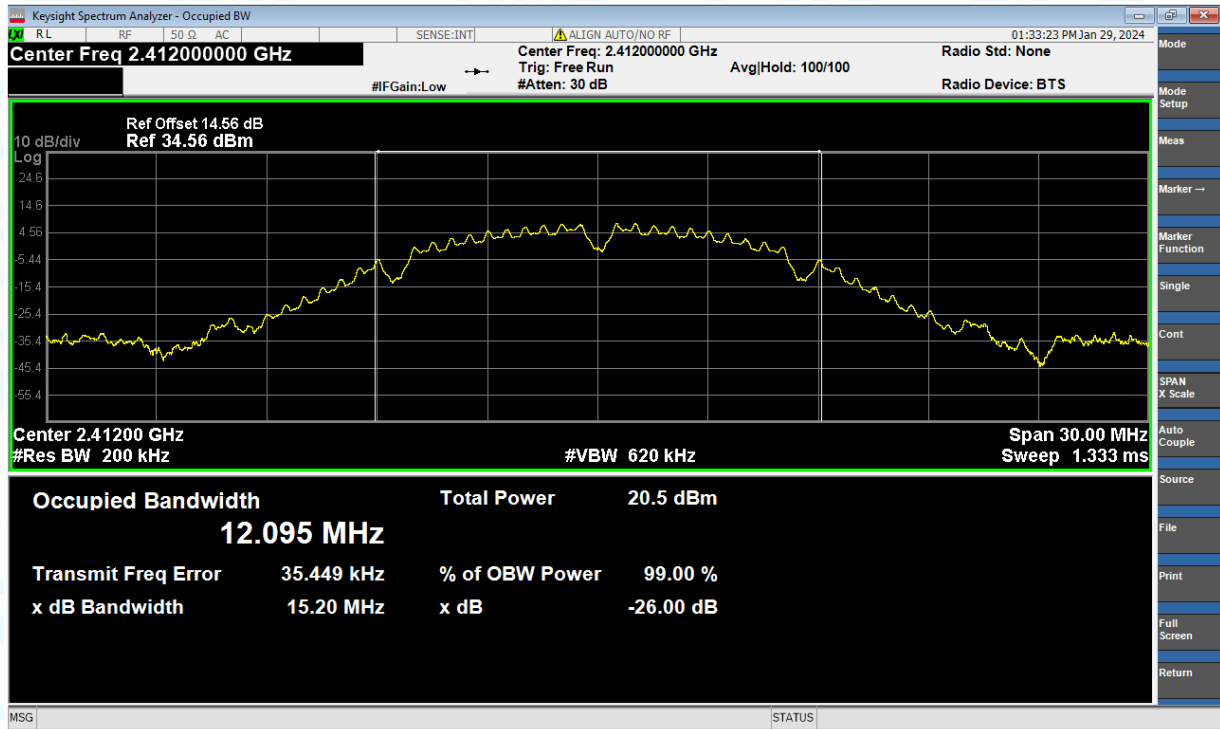
OBW NVNT ax(VHT40) 2437MHz Ant1



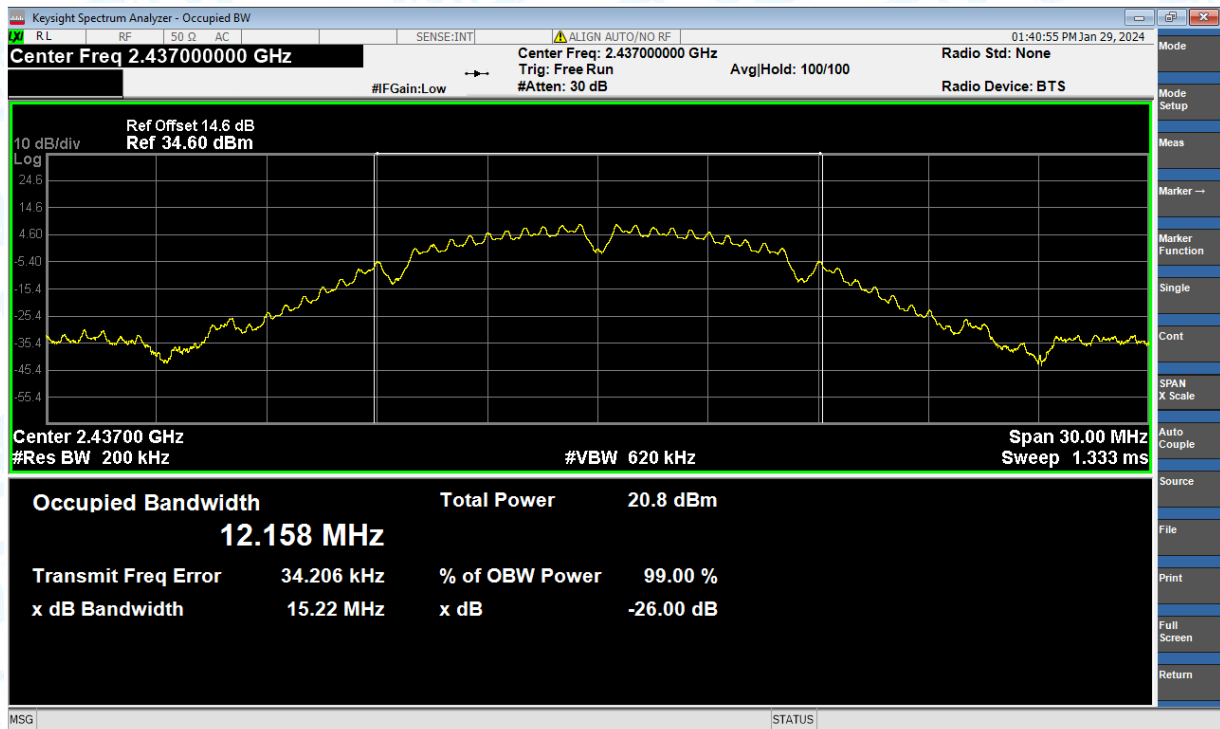
OBW NVNT ax(VHT40) 2452MHz Ant1



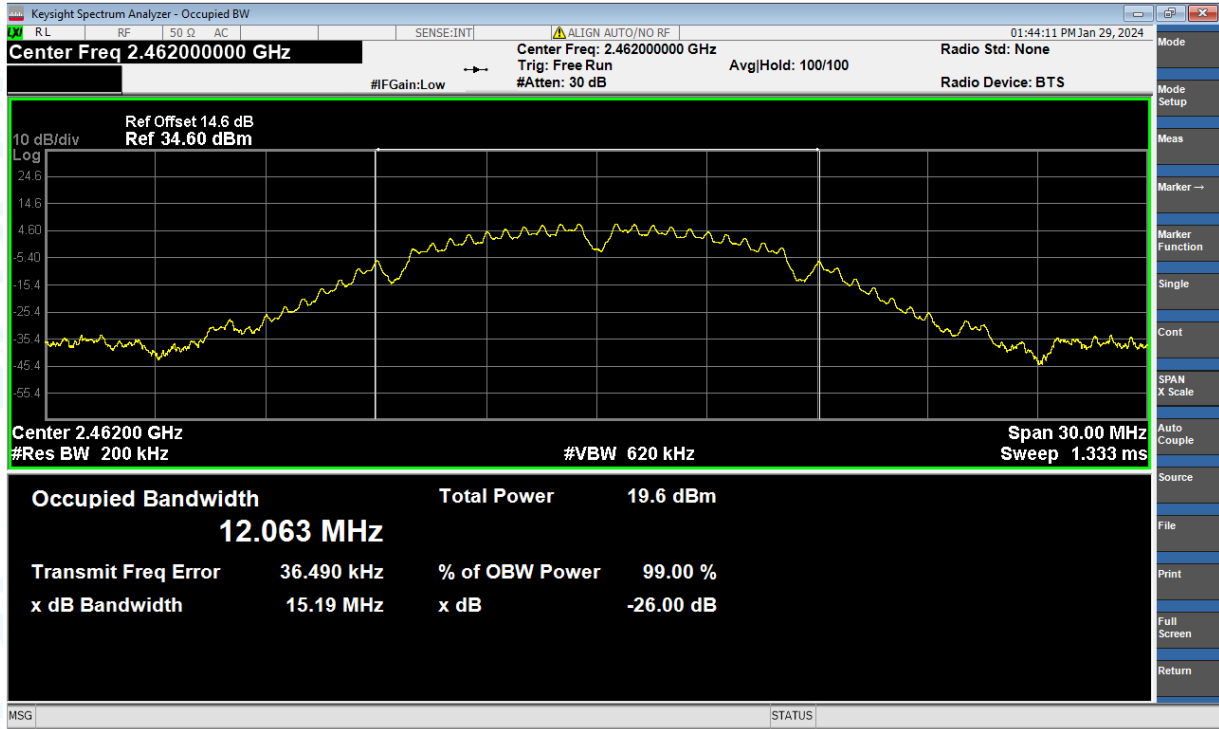
OBW NVNT b 2412MHz Ant1



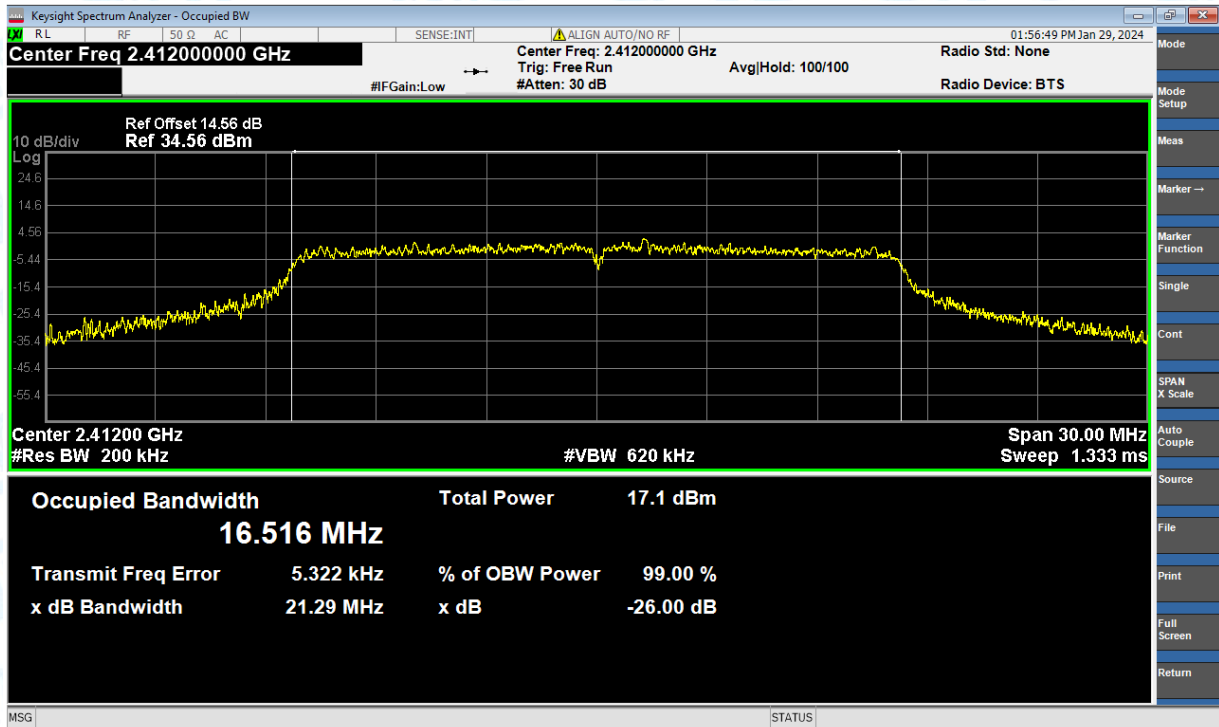
OBW NVNT b 2437MHz Ant1



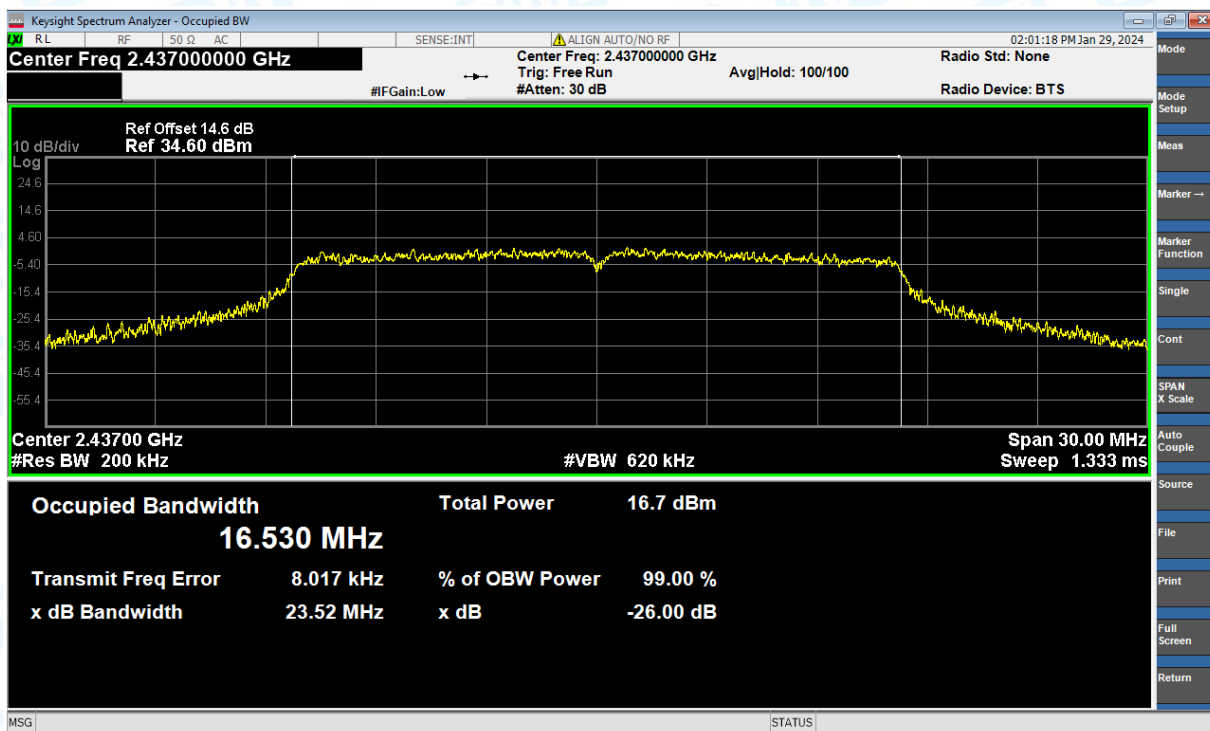
OBW NVNT b 2462MHz Ant1



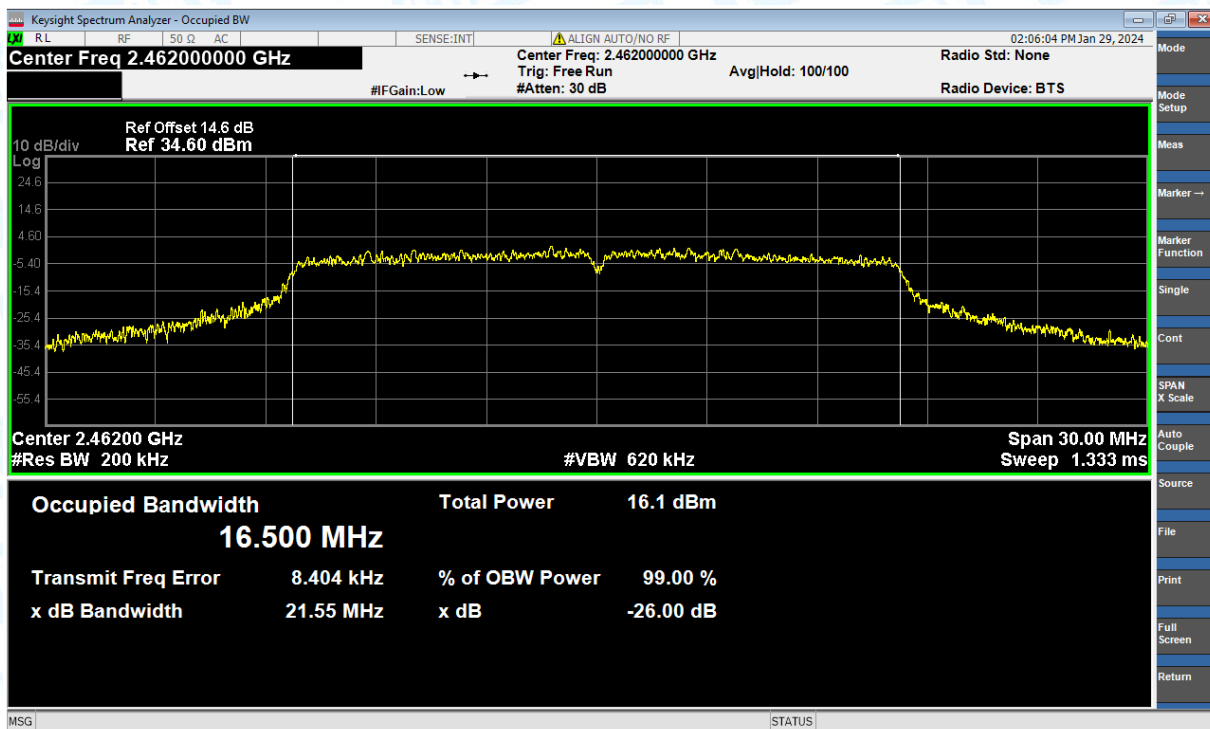
OBW NVNT g 2412MHz Ant1



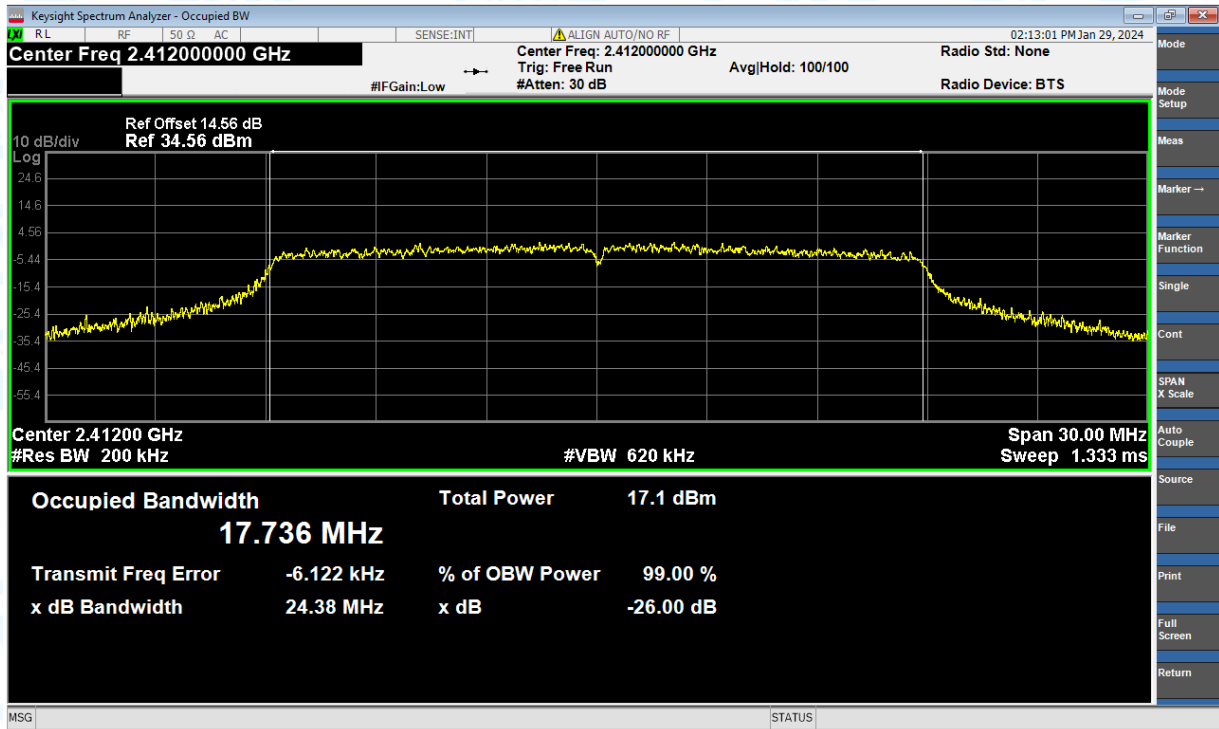
OBW NVNT g 2437MHz Ant1



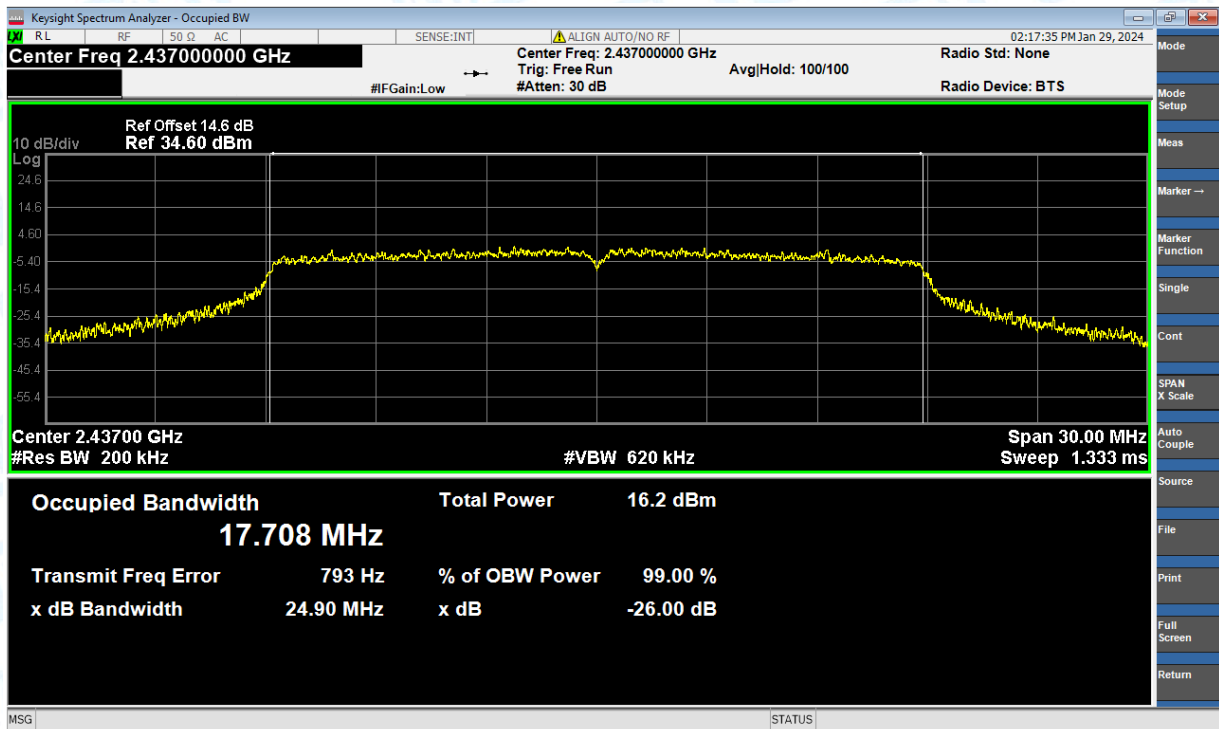
OBW NVNT g 2462MHz Ant1



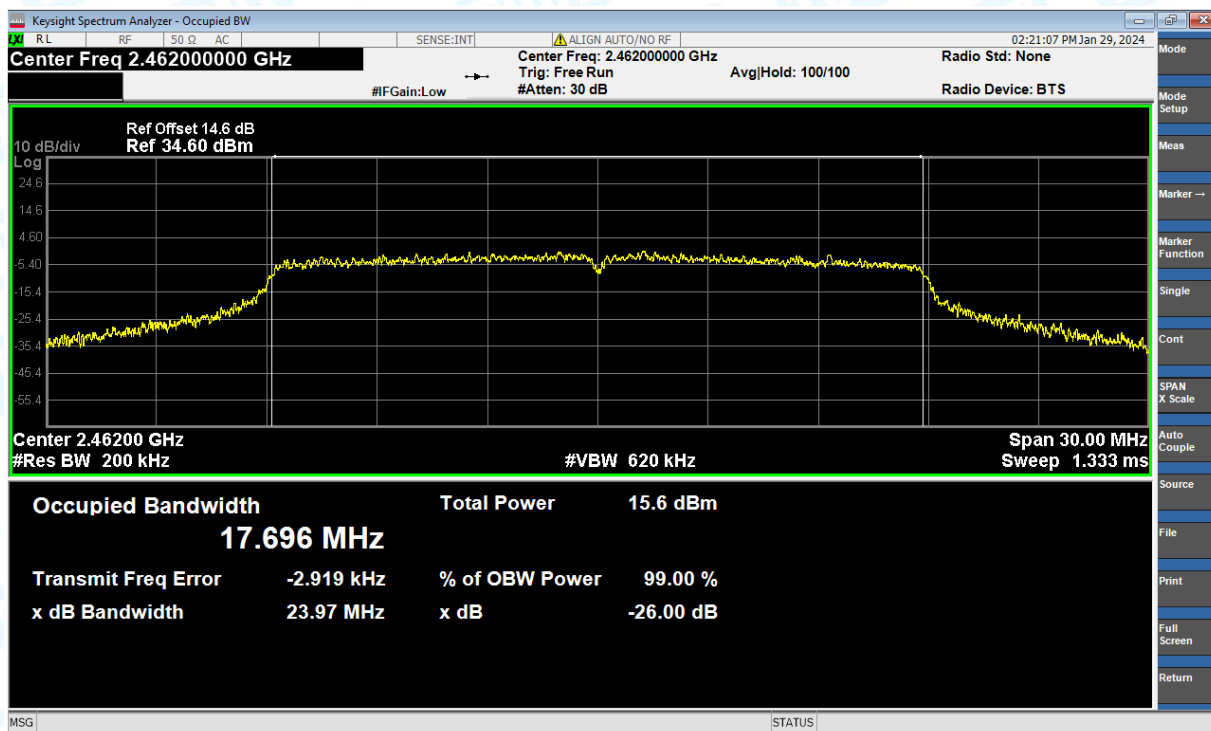
OBW NVNT n(HT20) 2412MHz Ant1



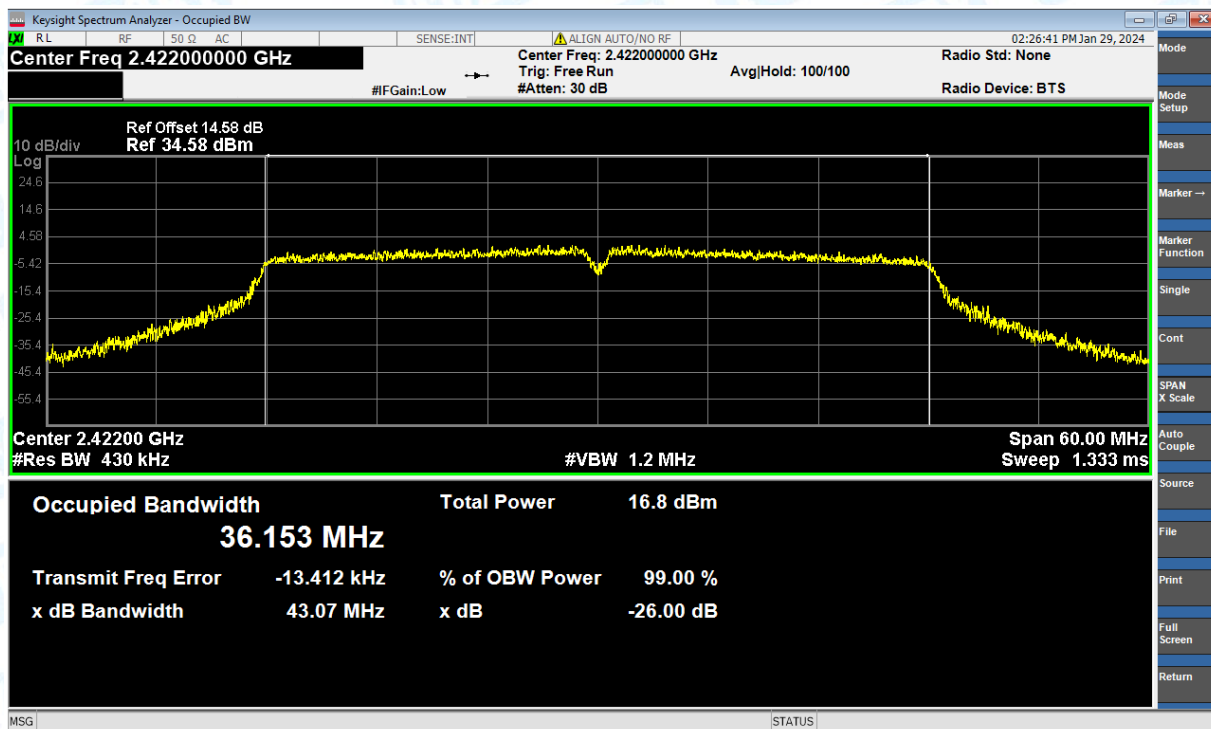
OBW NVNT n(HT20) 2437MHz Ant1



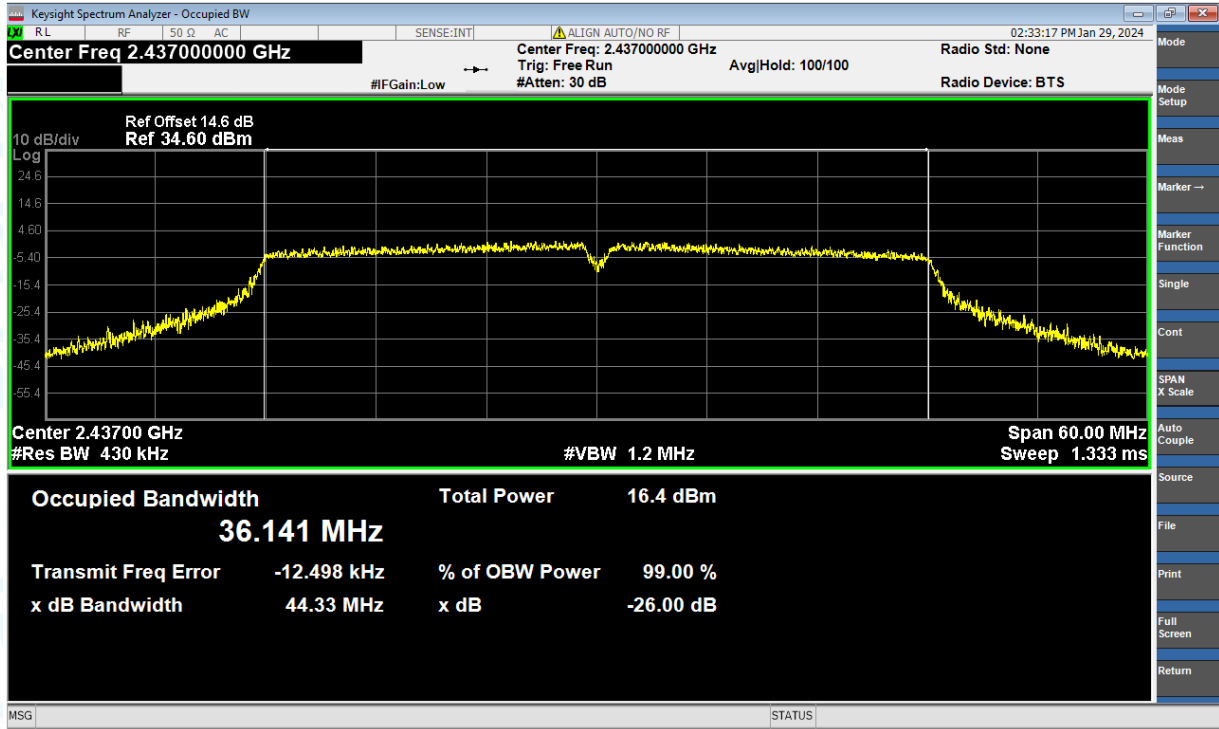
OBW NVNT n(HT20) 2462MHz Ant1



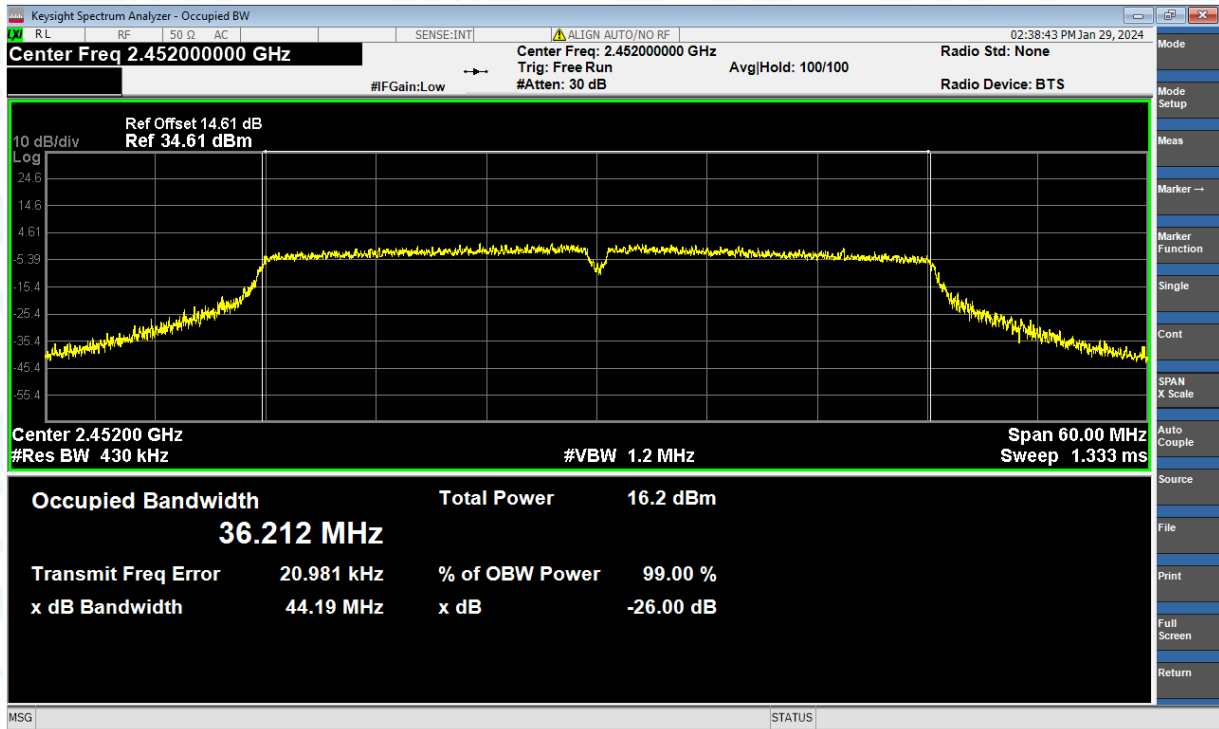
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

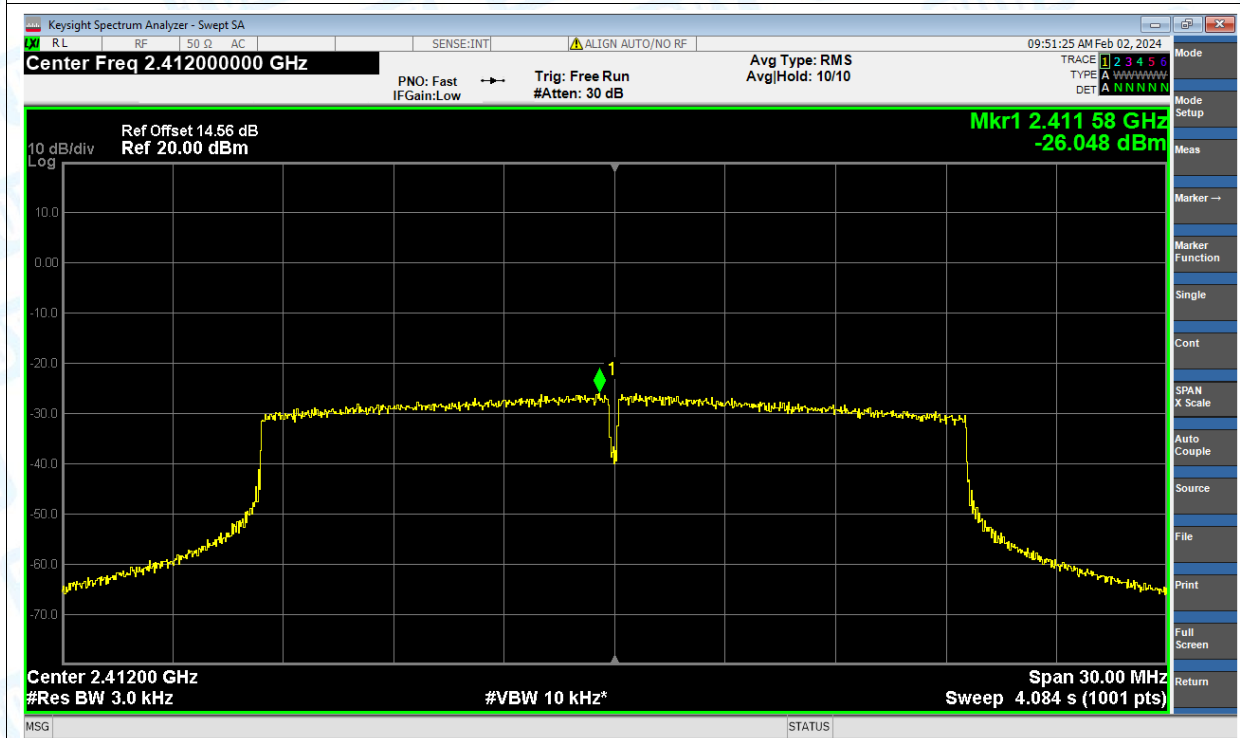


5. Maximum Power Spectral Density Level

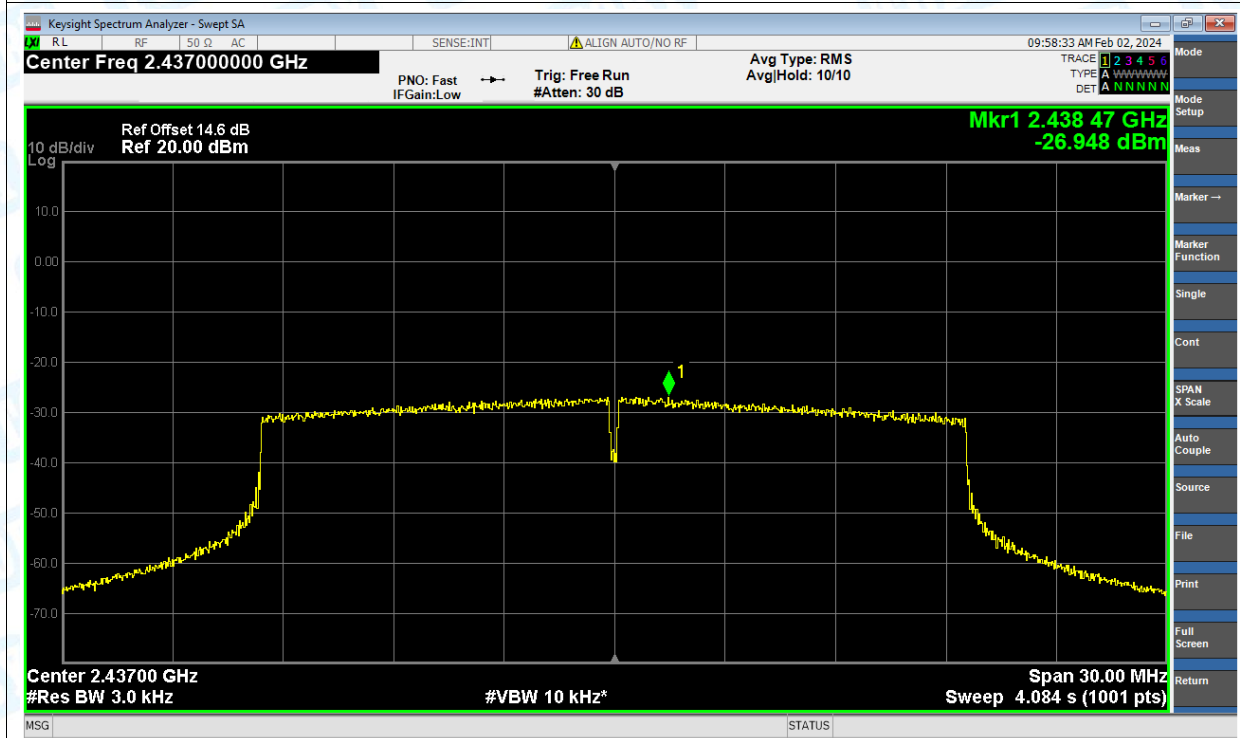
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-26.048	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-26.948	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-27.249	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-30.551	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-31.147	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-31.521	8	Pass
NVNT	b	2412	Ant1	-15.821	8	Pass
NVNT	b	2437	Ant1	-15.766	8	Pass
NVNT	b	2462	Ant1	-16.842	8	Pass
NVNT	g	2412	Ant1	-24.022	8	Pass
NVNT	g	2437	Ant1	-24.265	8	Pass
NVNT	g	2462	Ant1	-25.405	8	Pass
NVNT	n(HT20)	2412	Ant1	-23.664	8	Pass
NVNT	n(HT20)	2437	Ant1	-23.677	8	Pass
NVNT	n(HT20)	2462	Ant1	-24.473	8	Pass
NVNT	n(HT40)	2422	Ant1	-26.97	8	Pass
NVNT	n(HT40)	2437	Ant1	-27.155	8	Pass
NVNT	n(HT40)	2452	Ant1	-27.383	8	Pass

Test Graphs

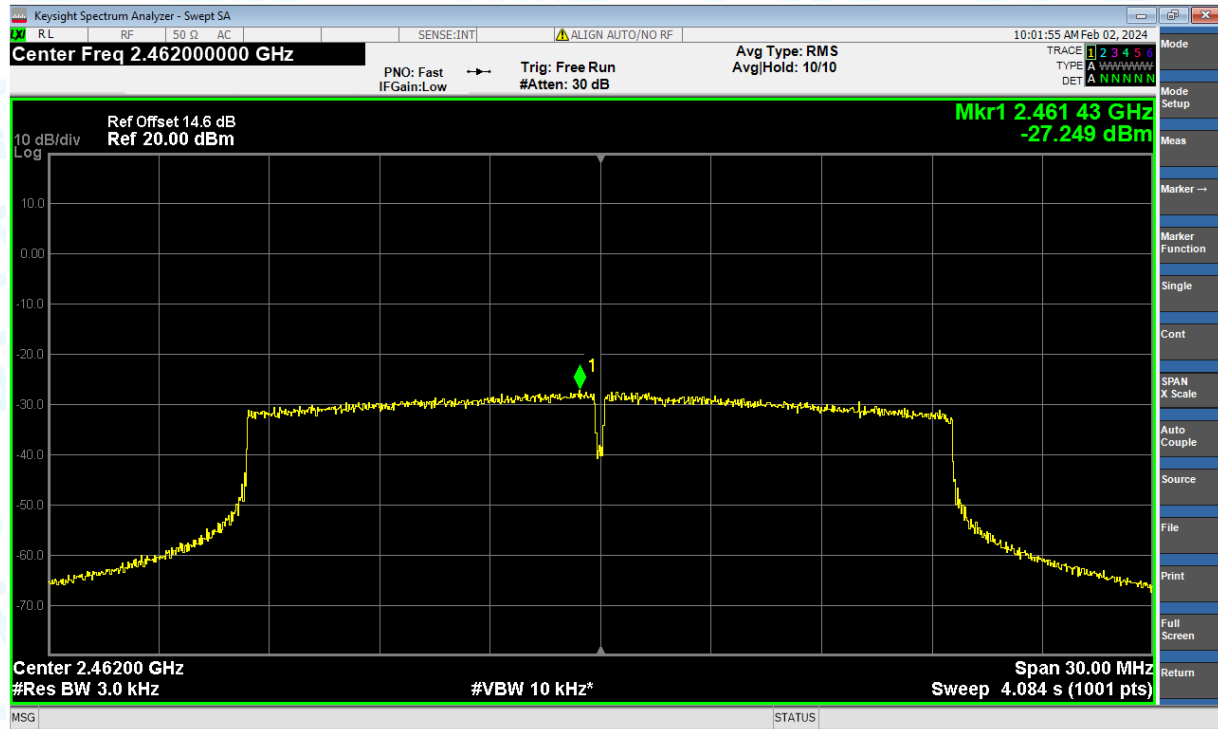
PSD NVNT ax(VHT20) 2412MHz Ant1



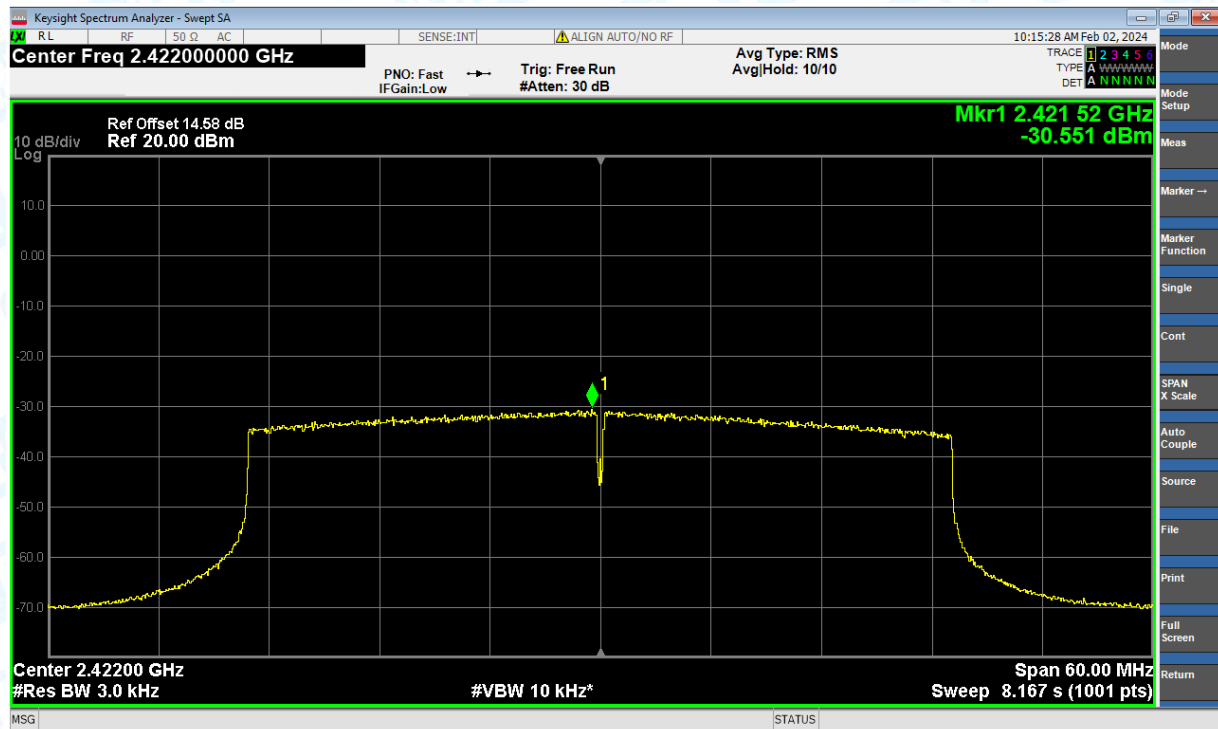
PSD NVNT ax(VHT20) 2437MHz Ant1



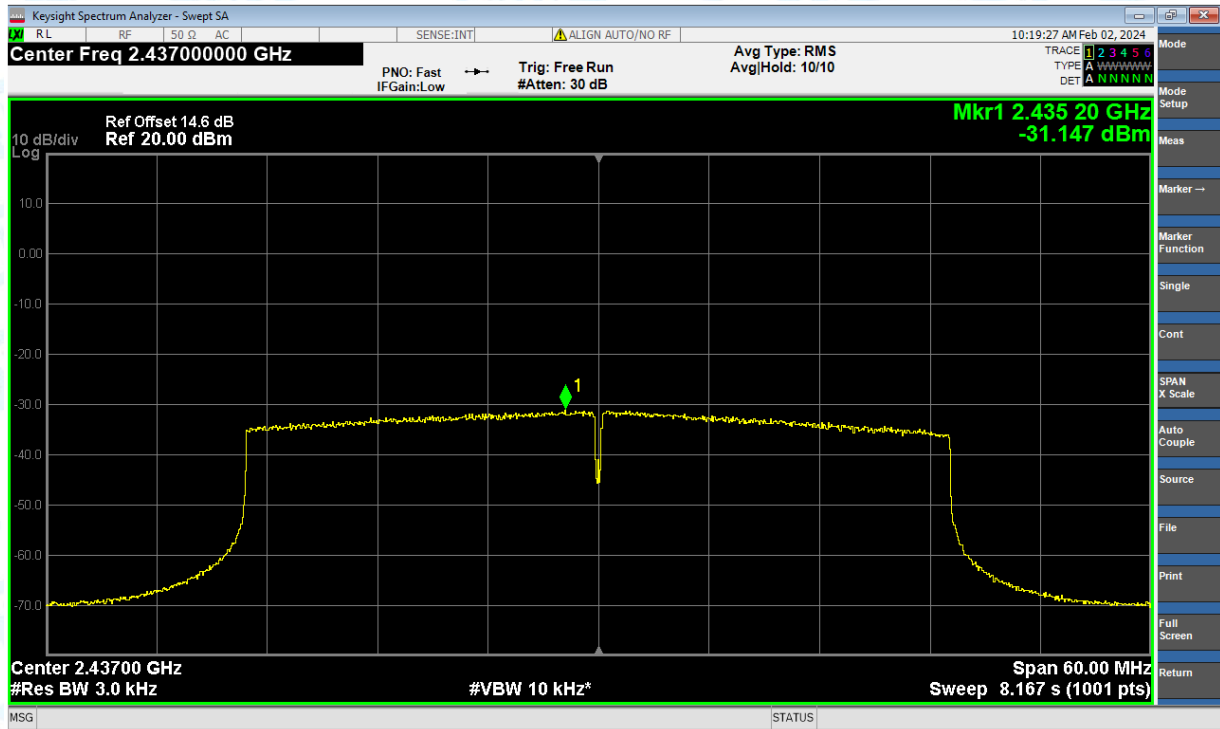
PSD NVNT ax(VHT20) 2462MHz Ant1



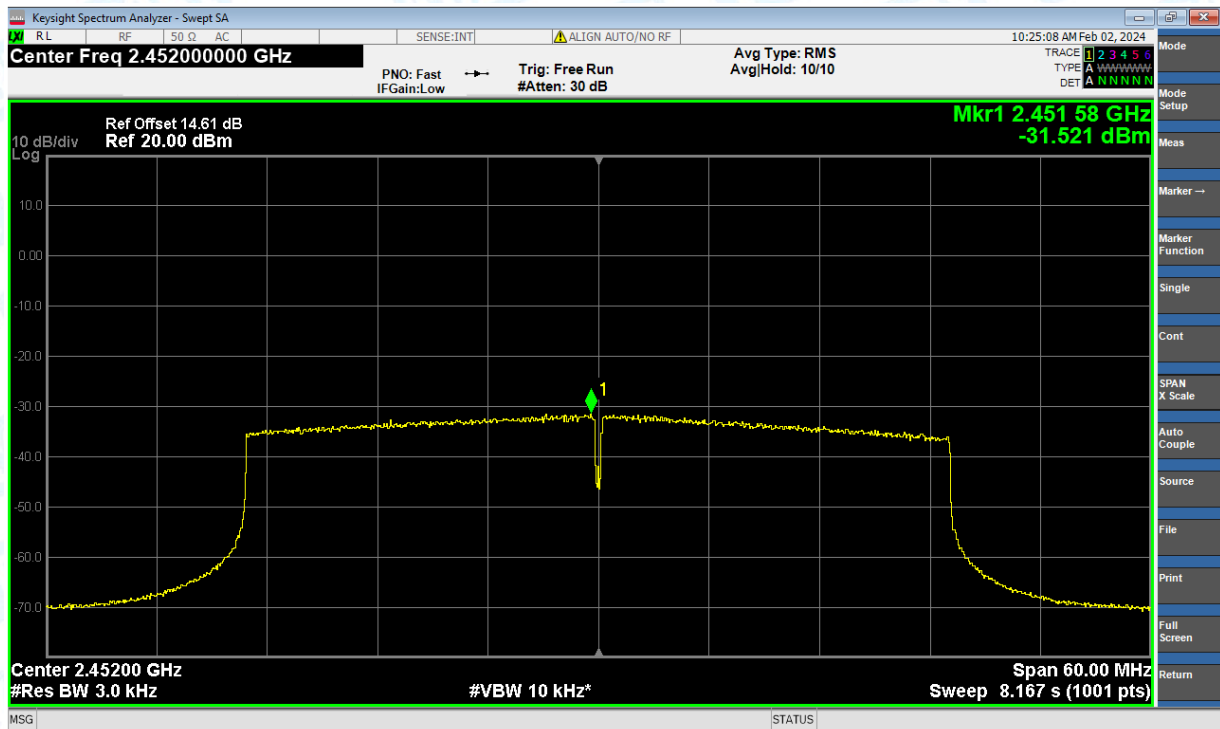
PSD NVNT ax(VHT40) 2422MHz Ant1



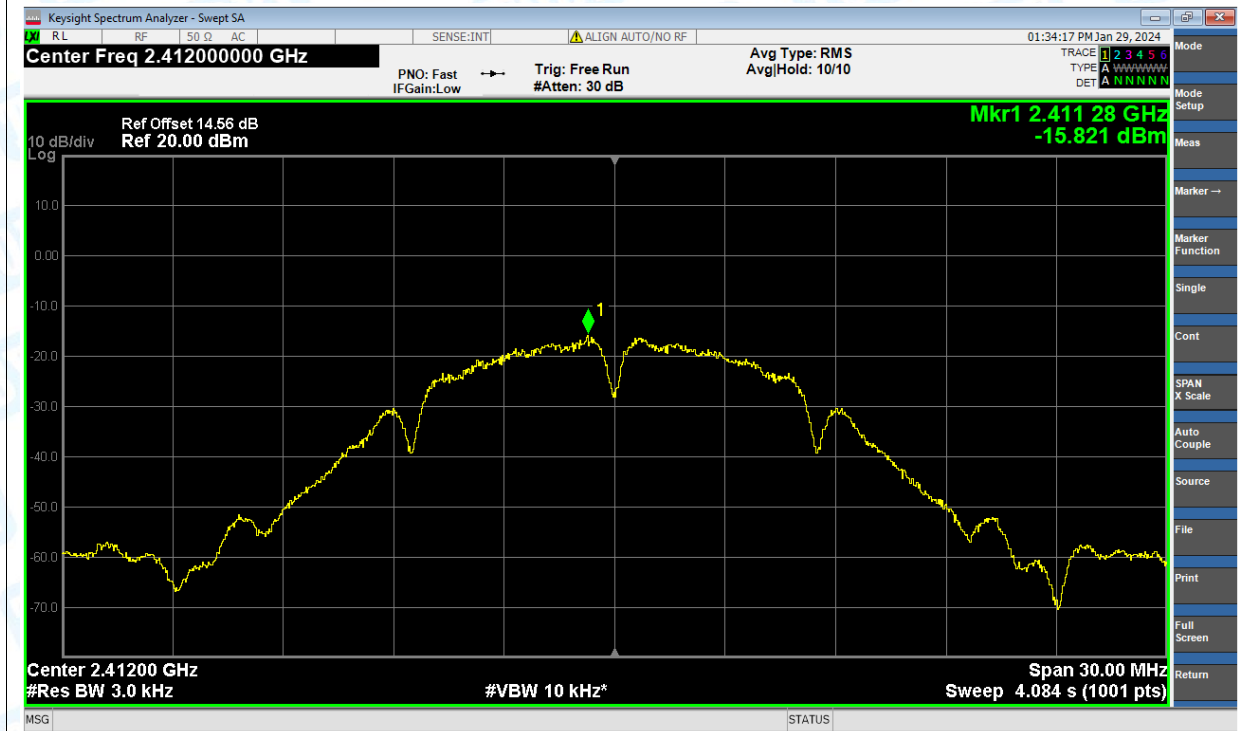
PSD NVNT ax(VHT40) 2437MHz Ant1



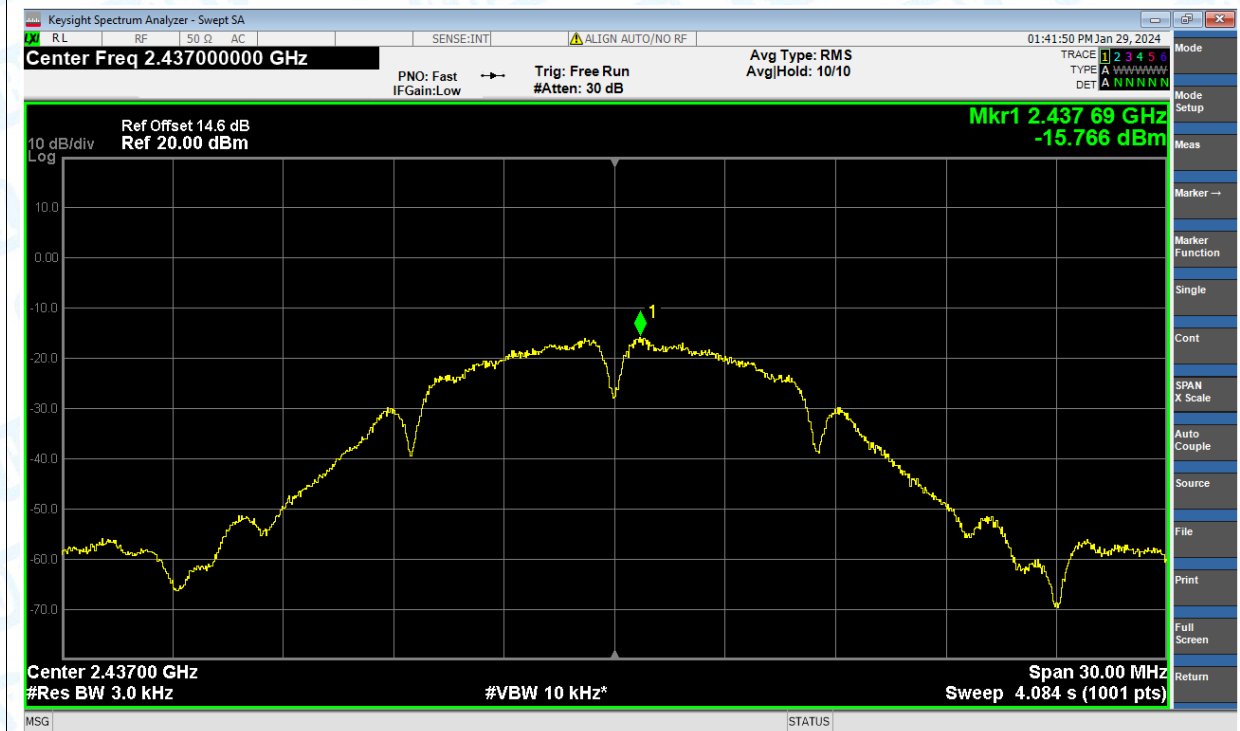
PSD NVNT ax(VHT40) 2452MHz Ant1



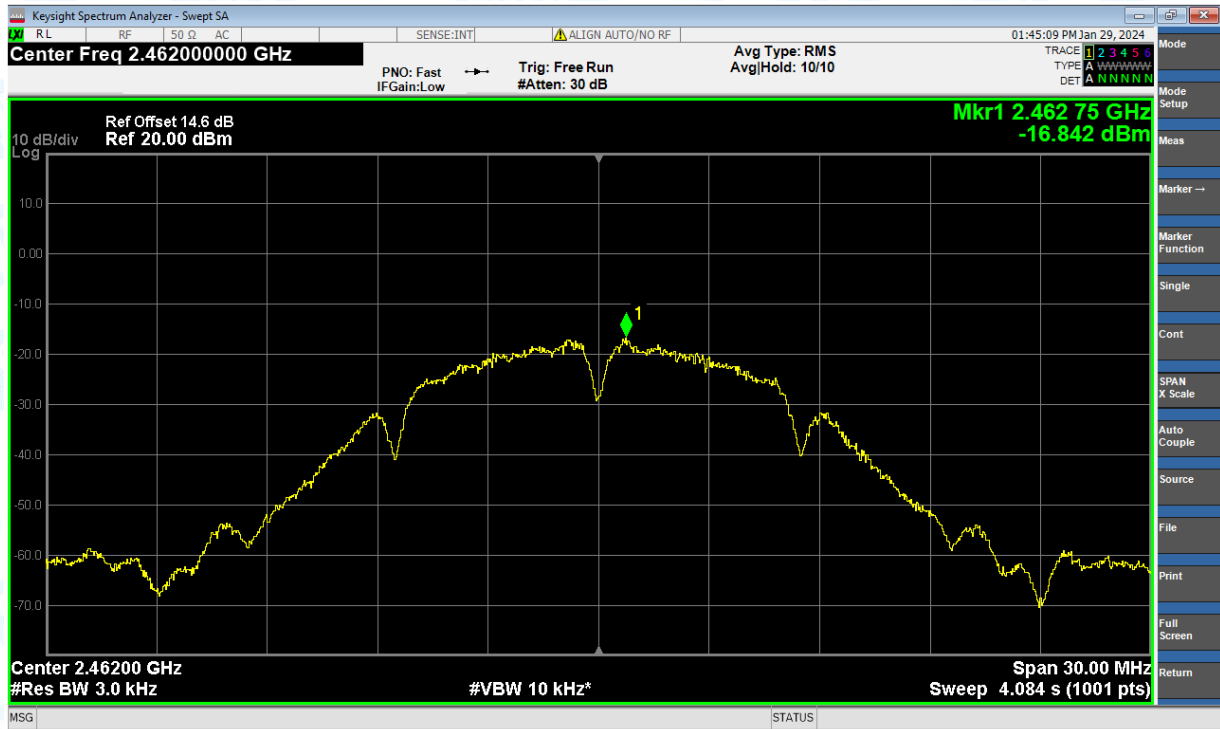
PSD NVNT b 2412MHz Ant1



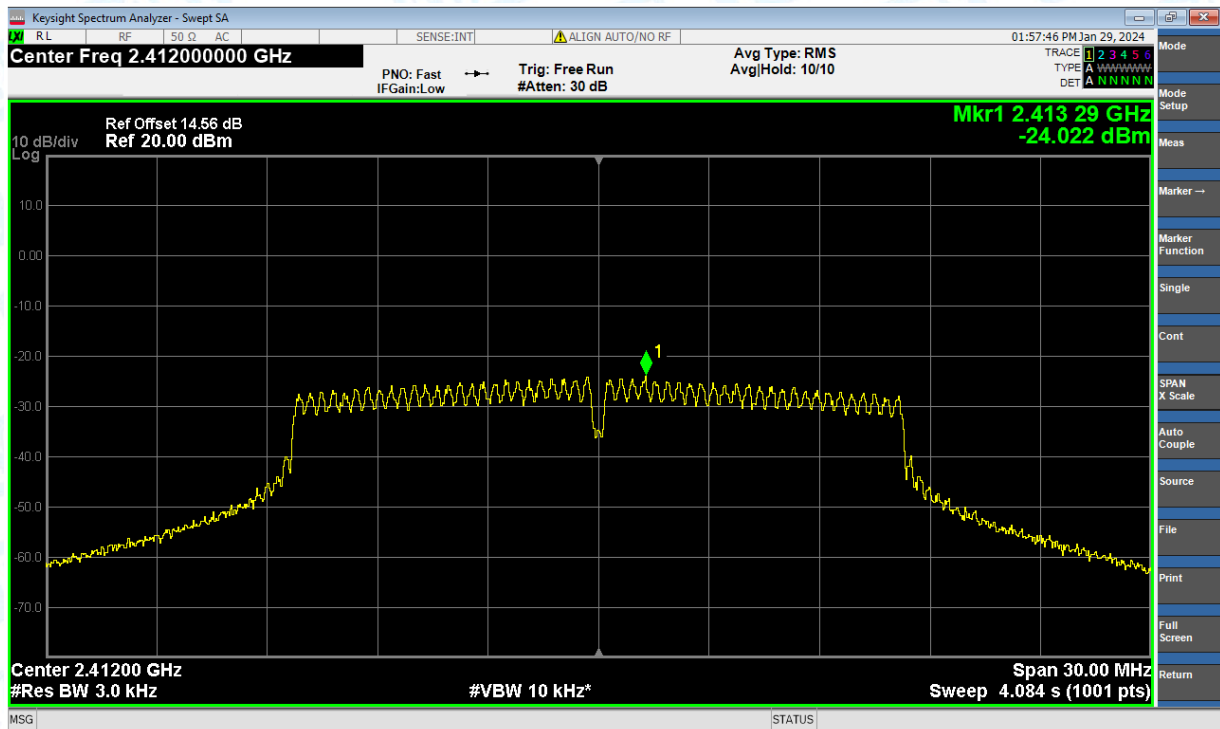
PSD NVNT b 2437MHz Ant1



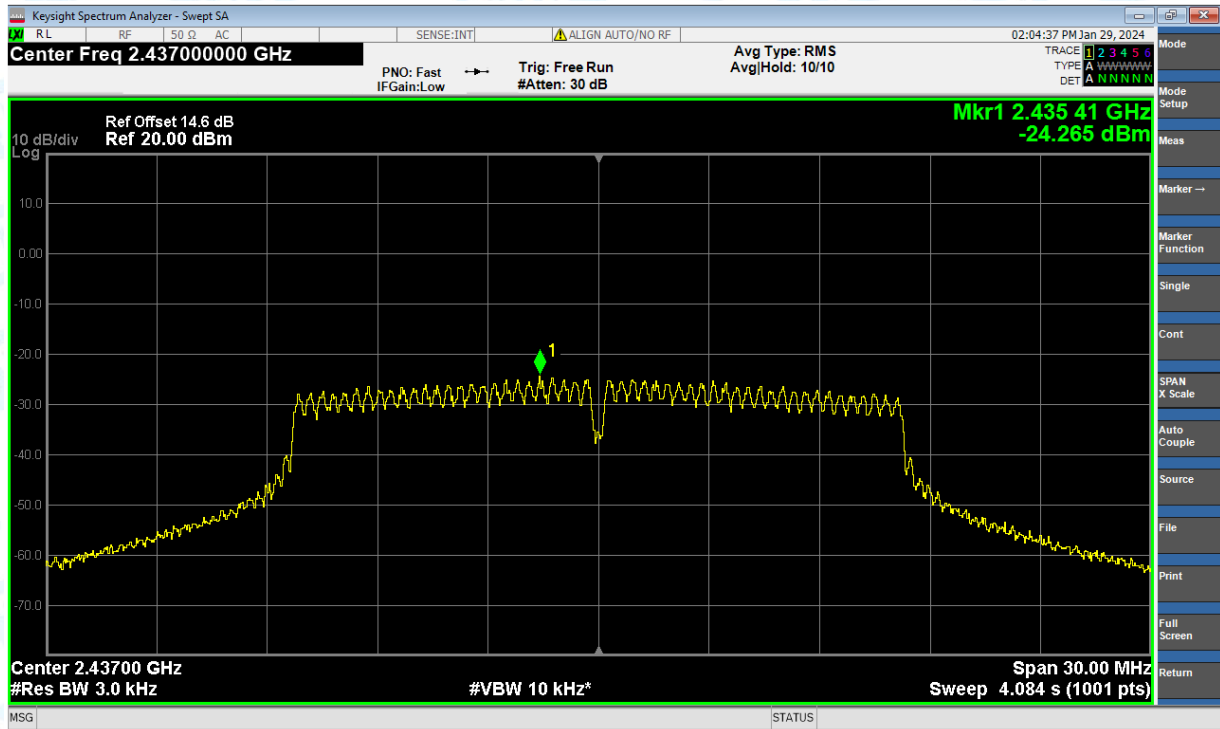
PSD NVNT b 2462MHz Ant1



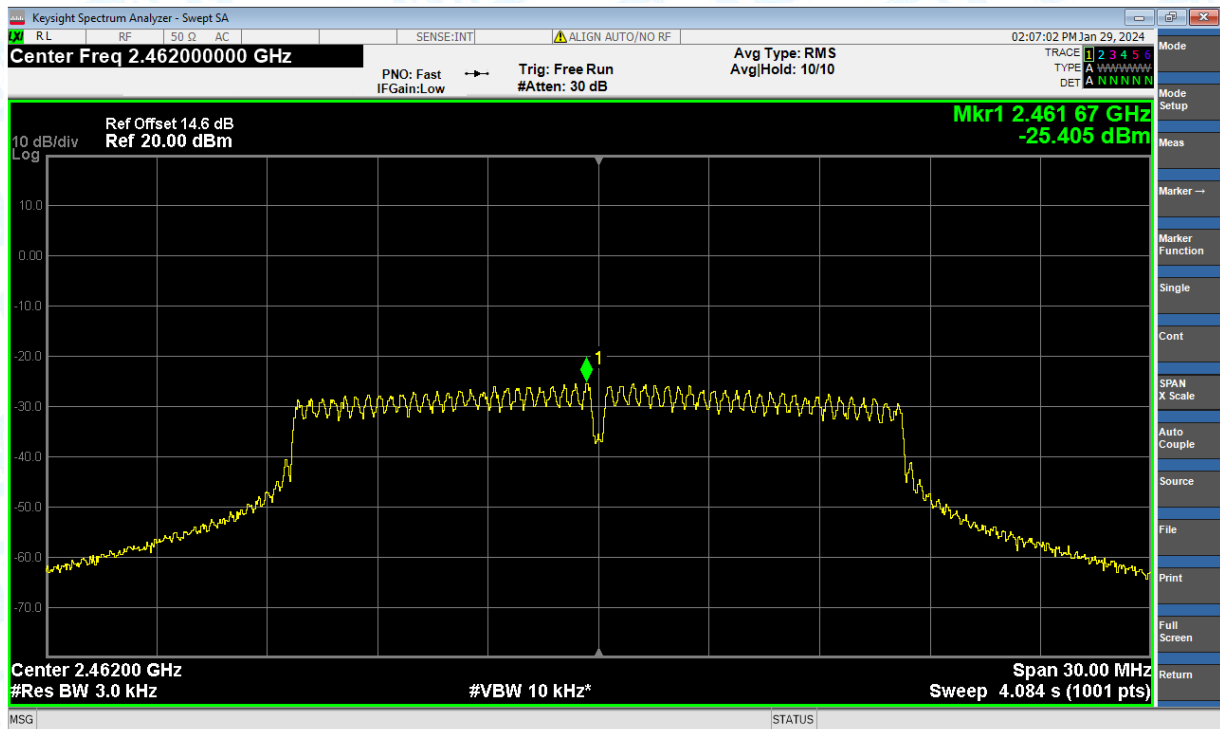
PSD NVNT g 2412MHz Ant1



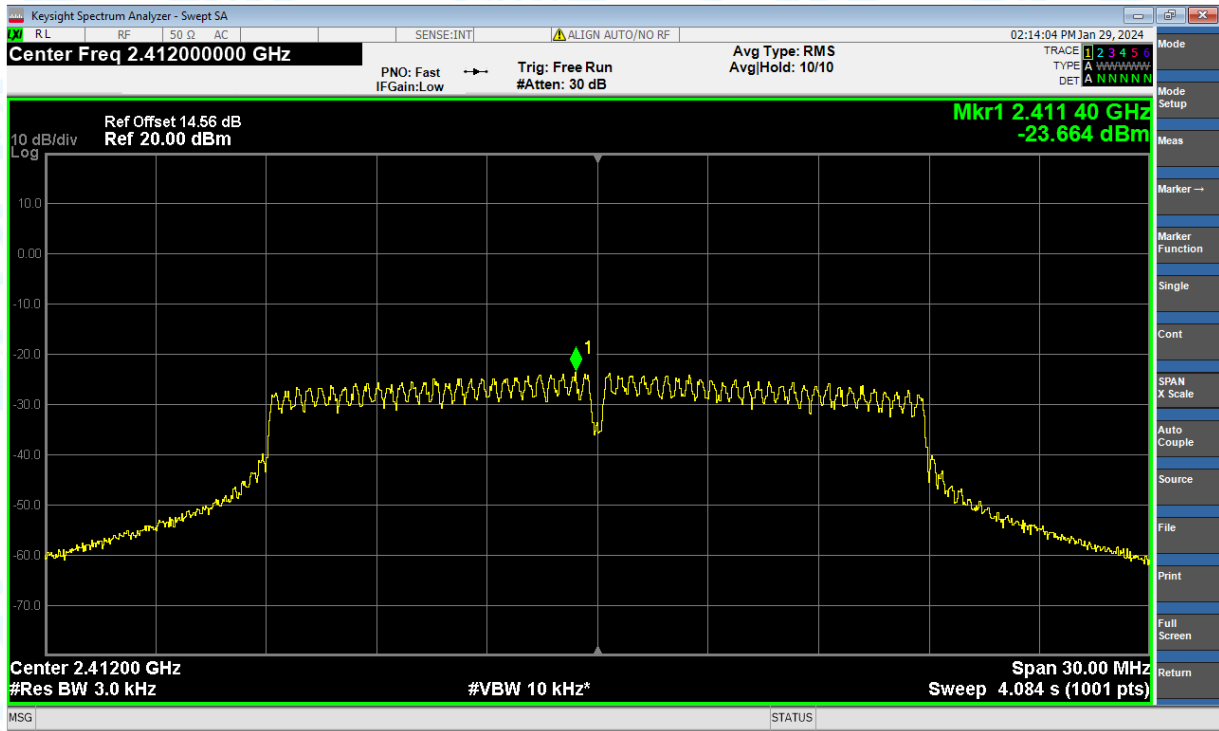
PSD NVNT g 2437MHz Ant1



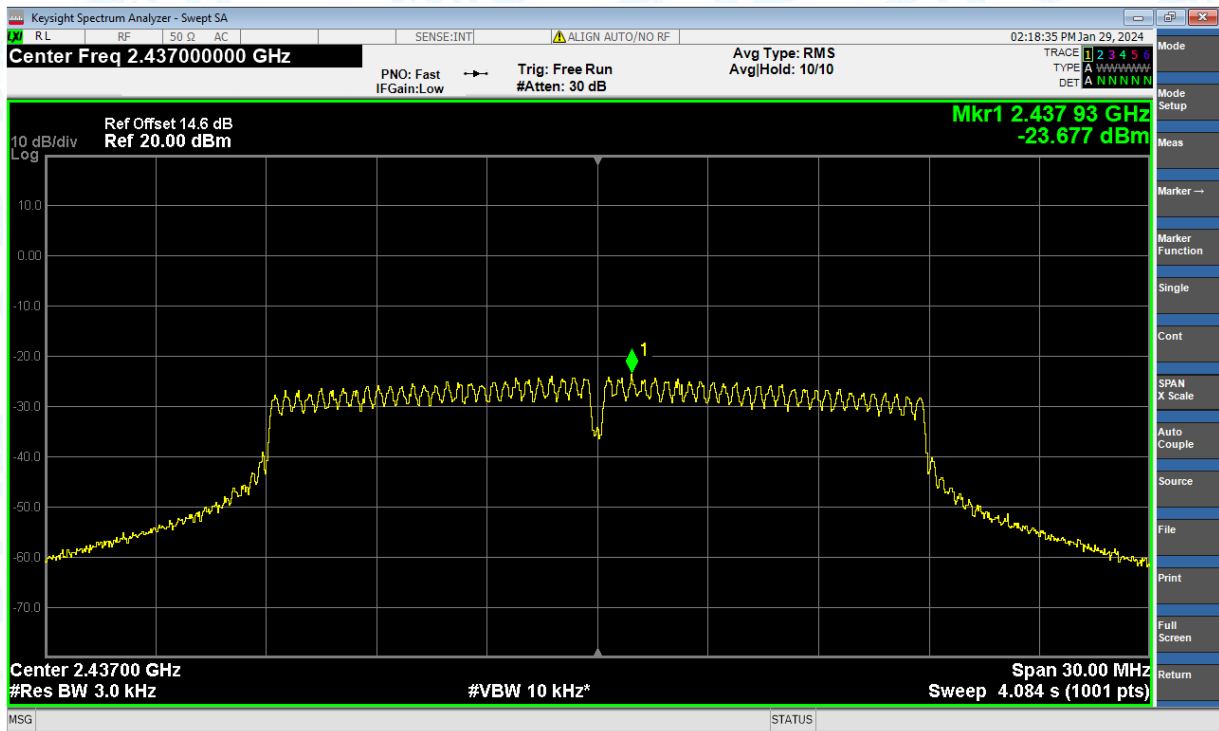
PSD NVNT g 2462MHz Ant1



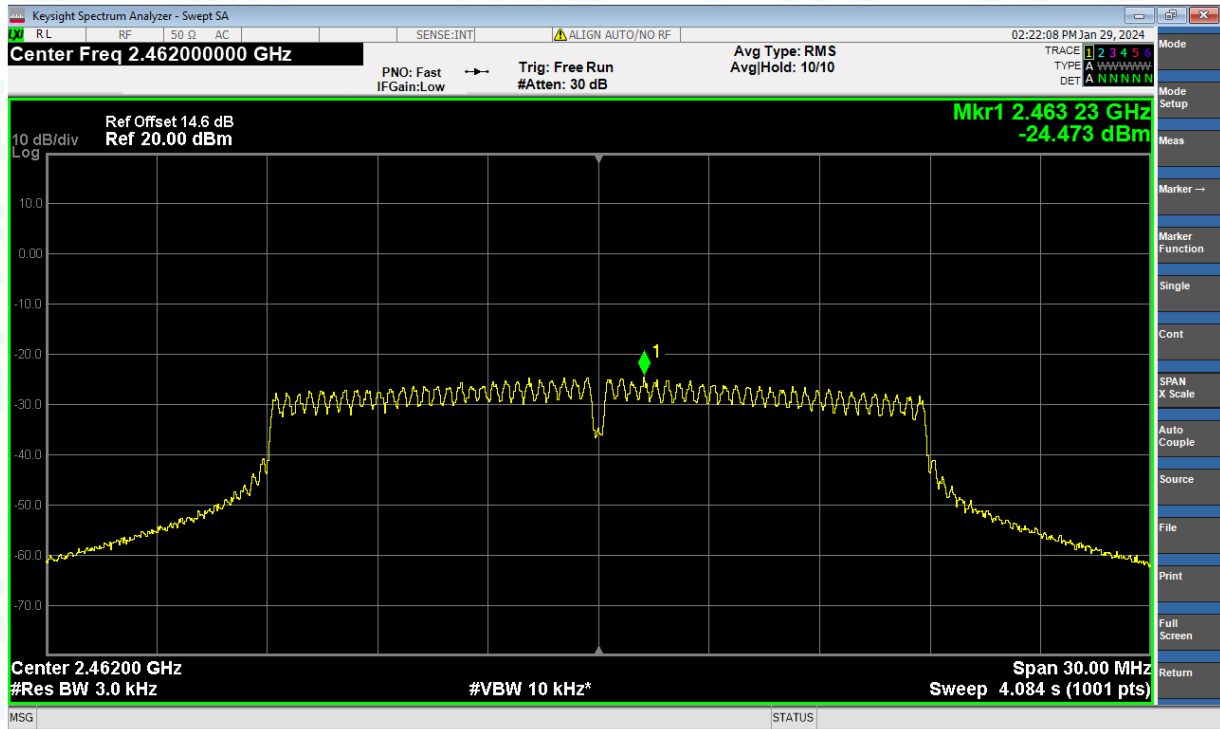
PSD NVNT n(HT20) 2412MHz Ant1



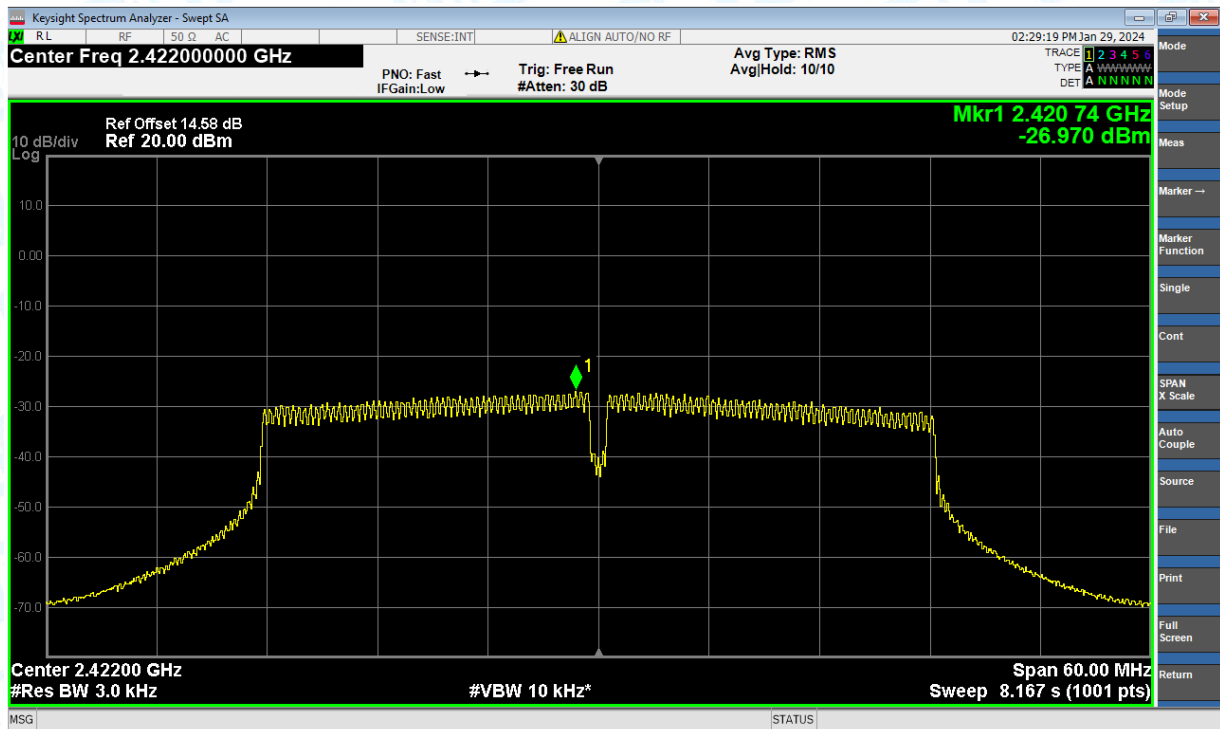
PSD NVNT n(HT20) 2437MHz Ant1



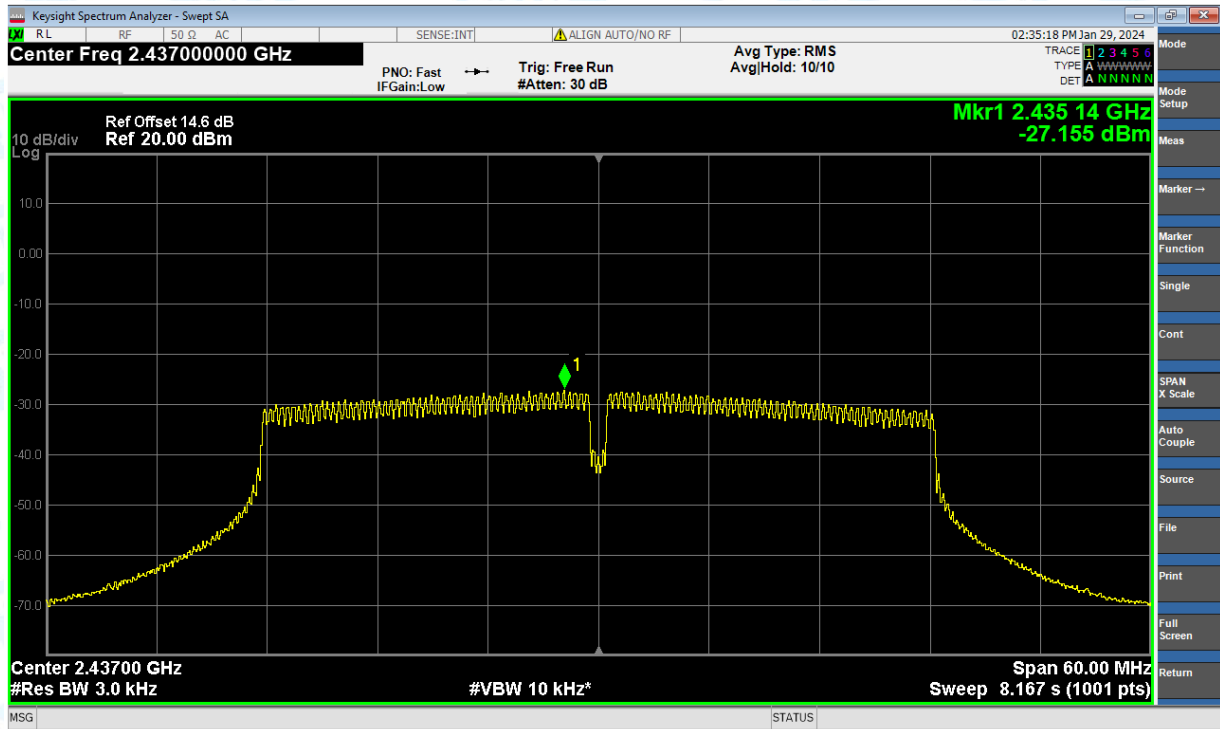
PSD NVNT n(HT20) 2462MHz Ant1



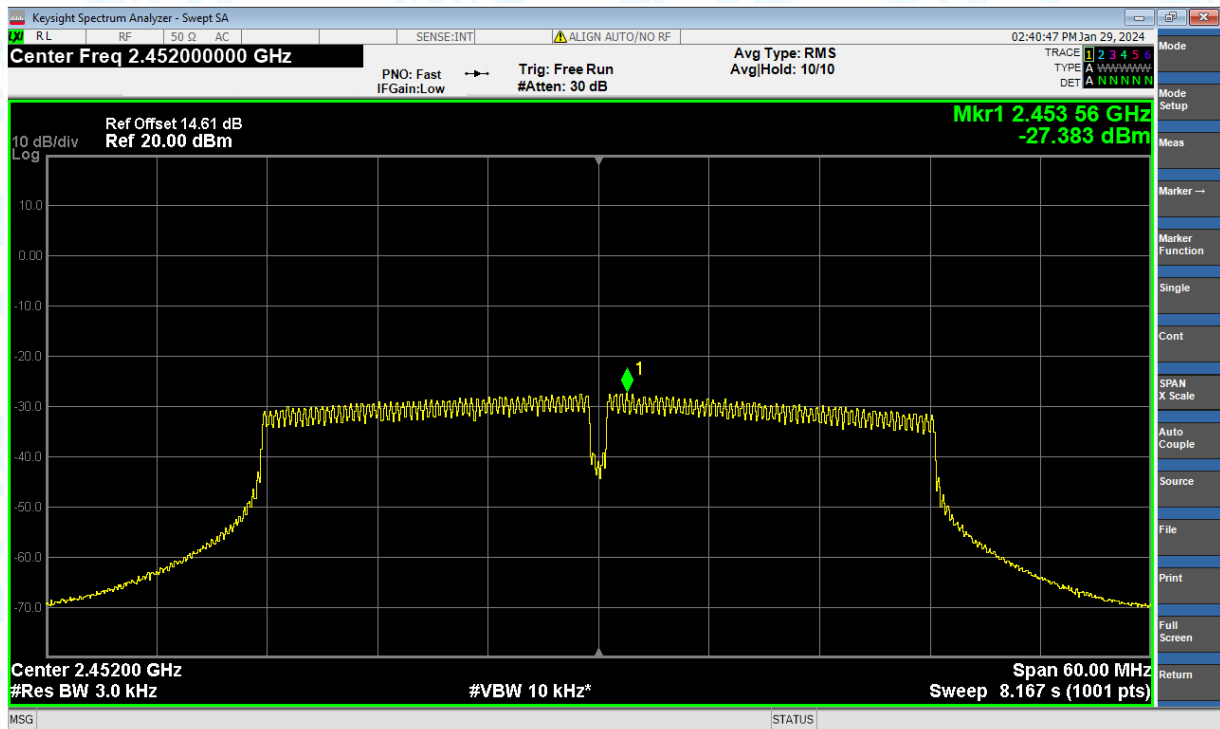
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

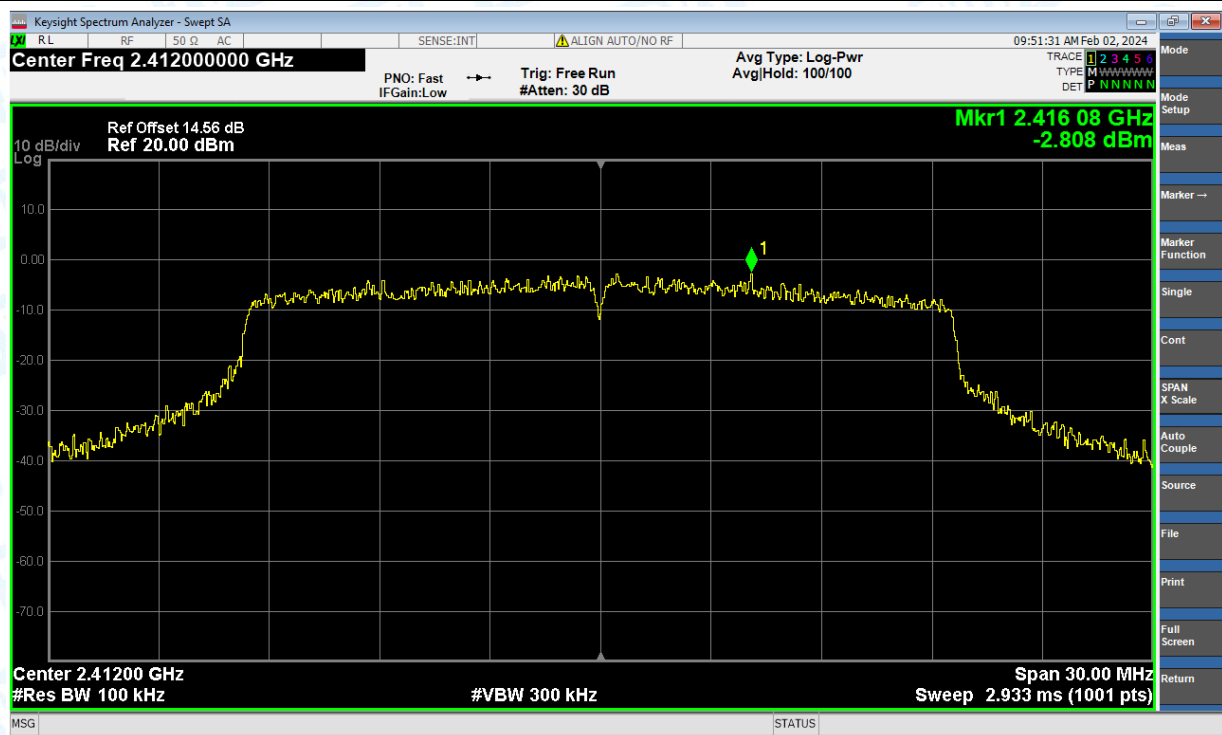


6. Band Edge

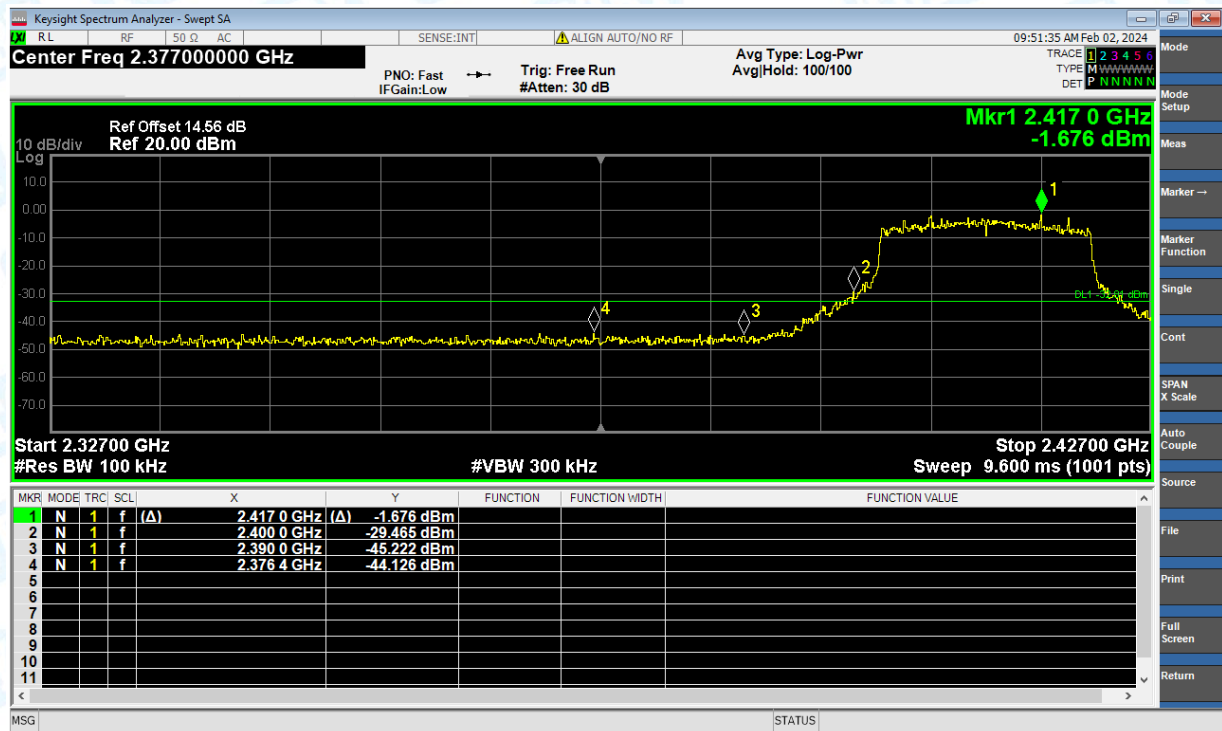
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-41.32	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-42.08	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-39.48	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-38.53	-30	Pass
NVNT	b	2412	Ant1	-51.41	-30	Pass
NVNT	b	2462	Ant1	-49.95	-30	Pass
NVNT	g	2412	Ant1	-46.19	-30	Pass
NVNT	g	2462	Ant1	-44.24	-30	Pass
NVNT	n(HT20)	2412	Ant1	-42.72	-30	Pass
NVNT	n(HT20)	2462	Ant1	-42.81	-30	Pass
NVNT	n(HT40)	2422	Ant1	-40.73	-30	Pass
NVNT	n(HT40)	2452	Ant1	-40.35	-30	Pass

Test Graphs

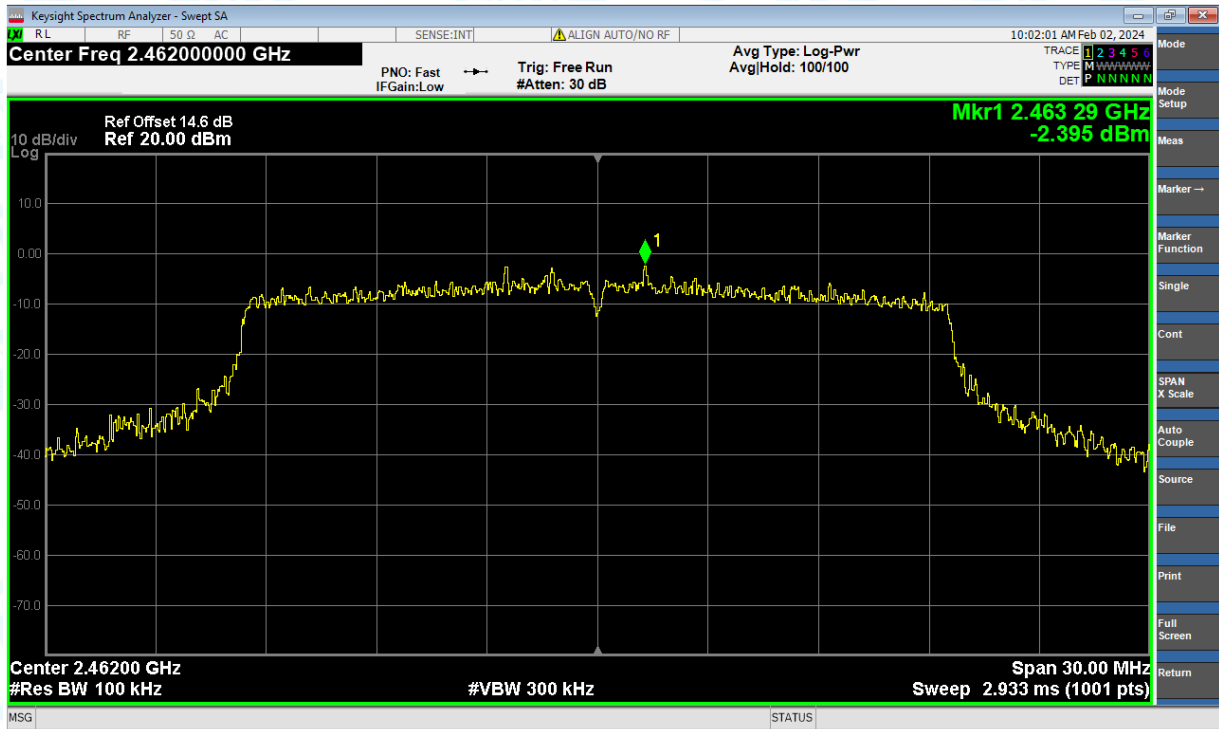
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref



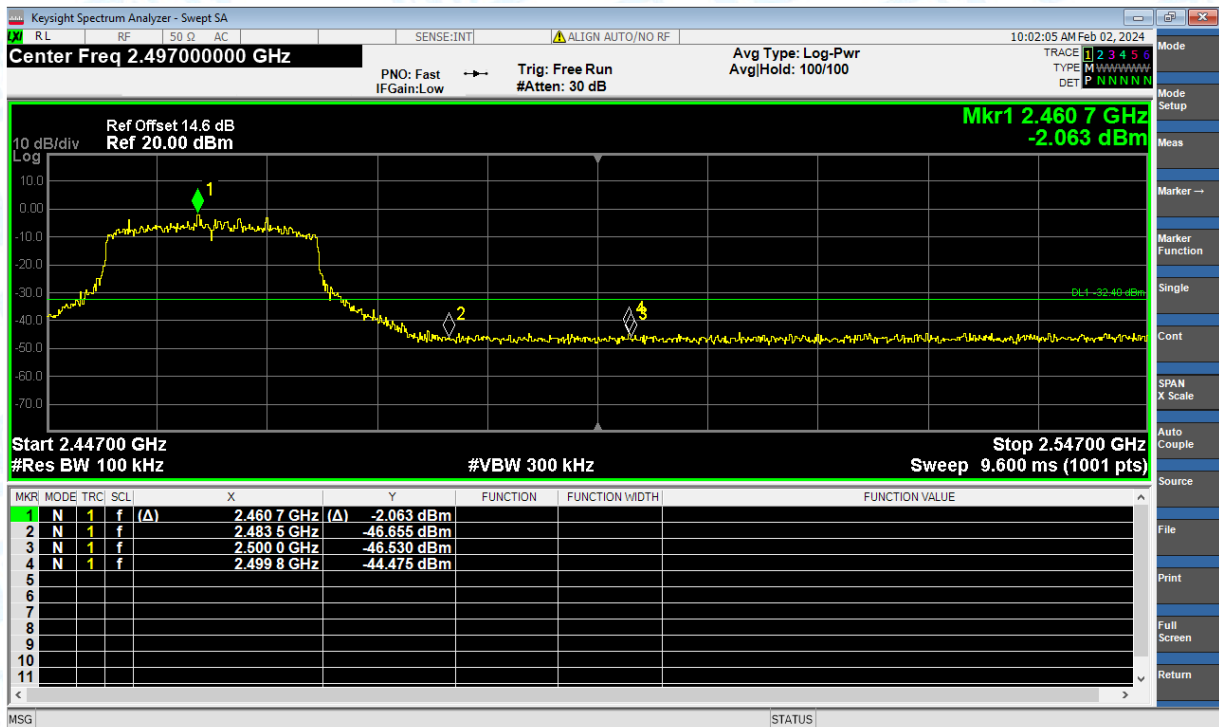
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission



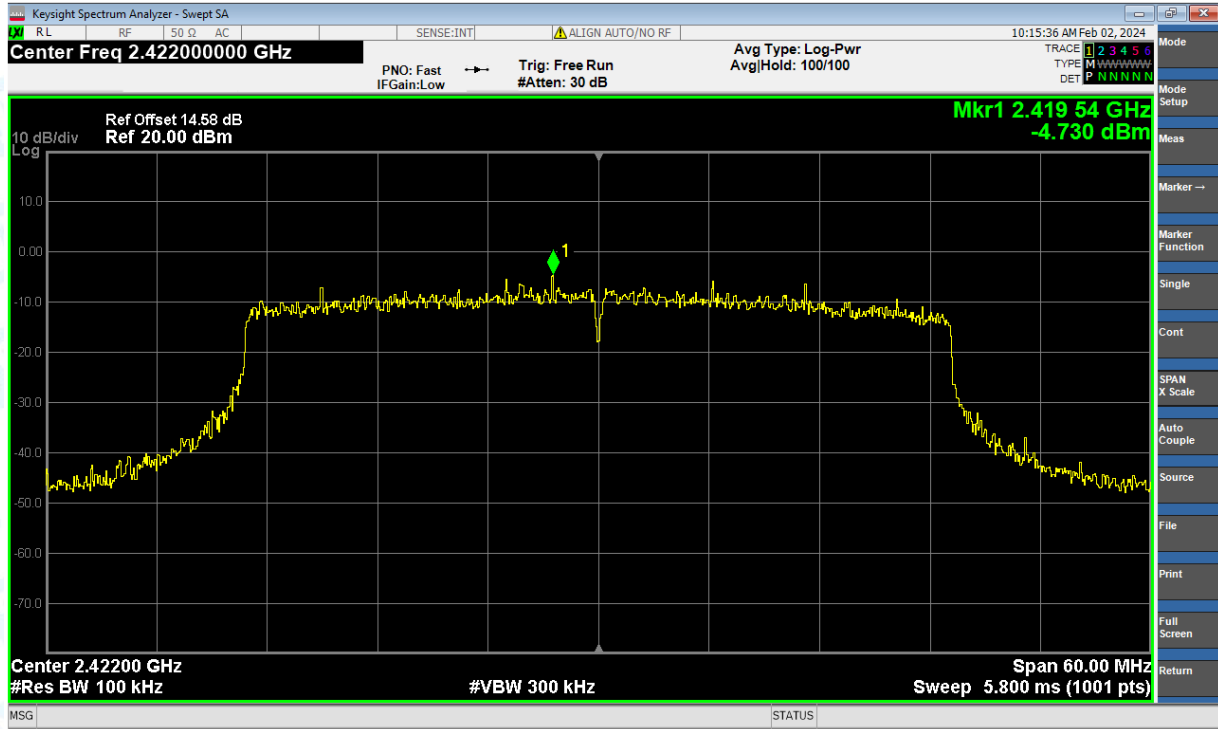
Band Edge NVNT ax(VHT20) 2462MHz Ant1 Ref



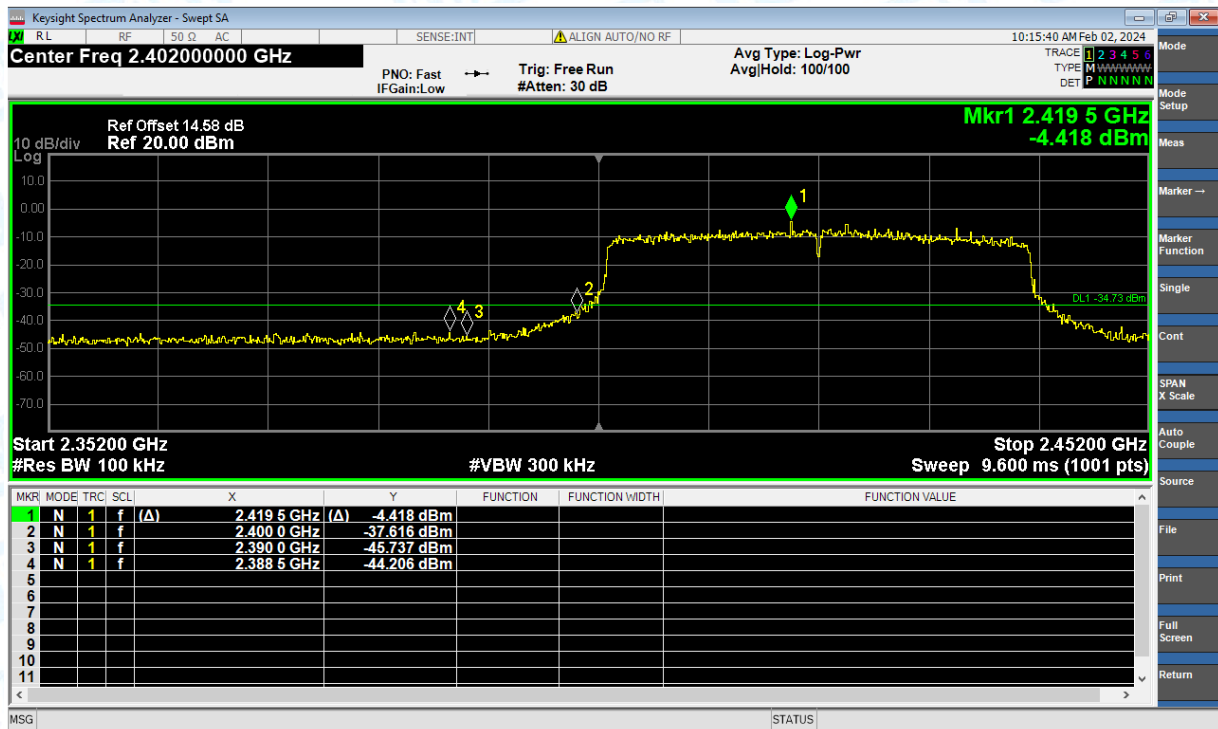
Band Edge NVNT ax(VHT20) 2462MHz Ant1 Emission

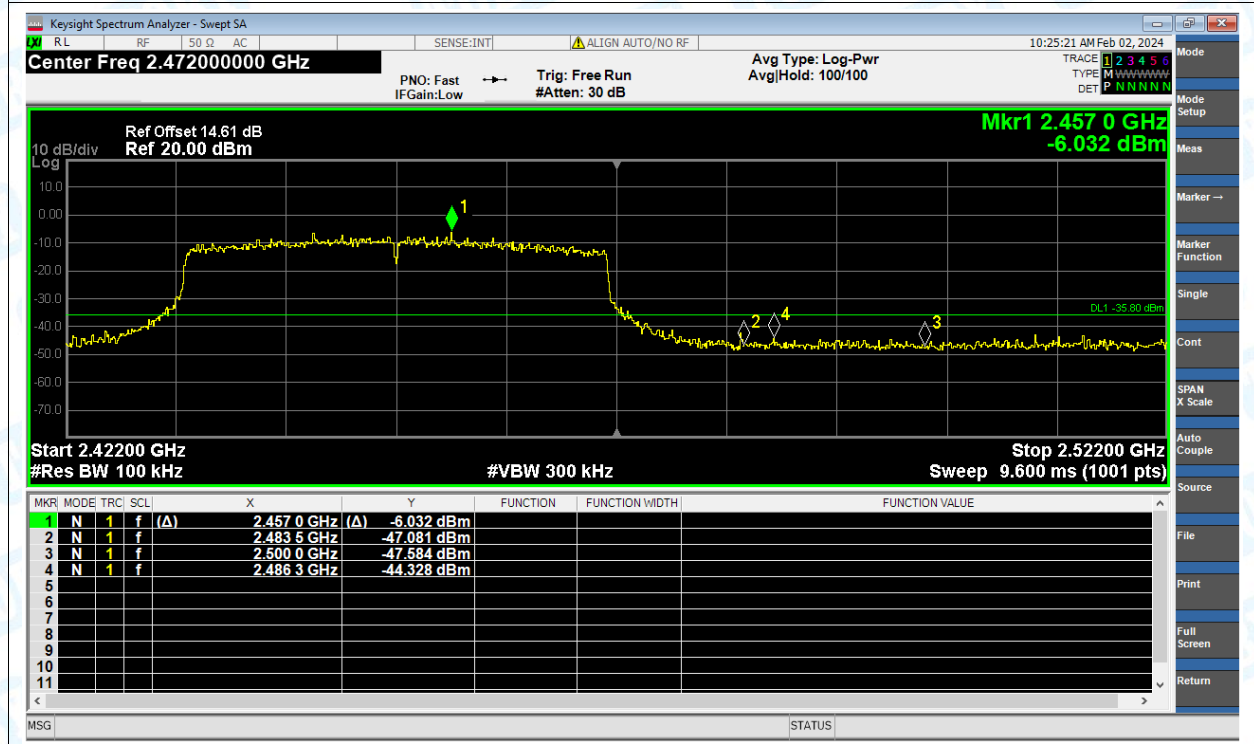
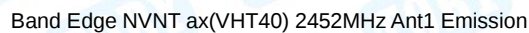


Band Edge NVNT ax(VHT40) 2422MHz Ant1 Ref

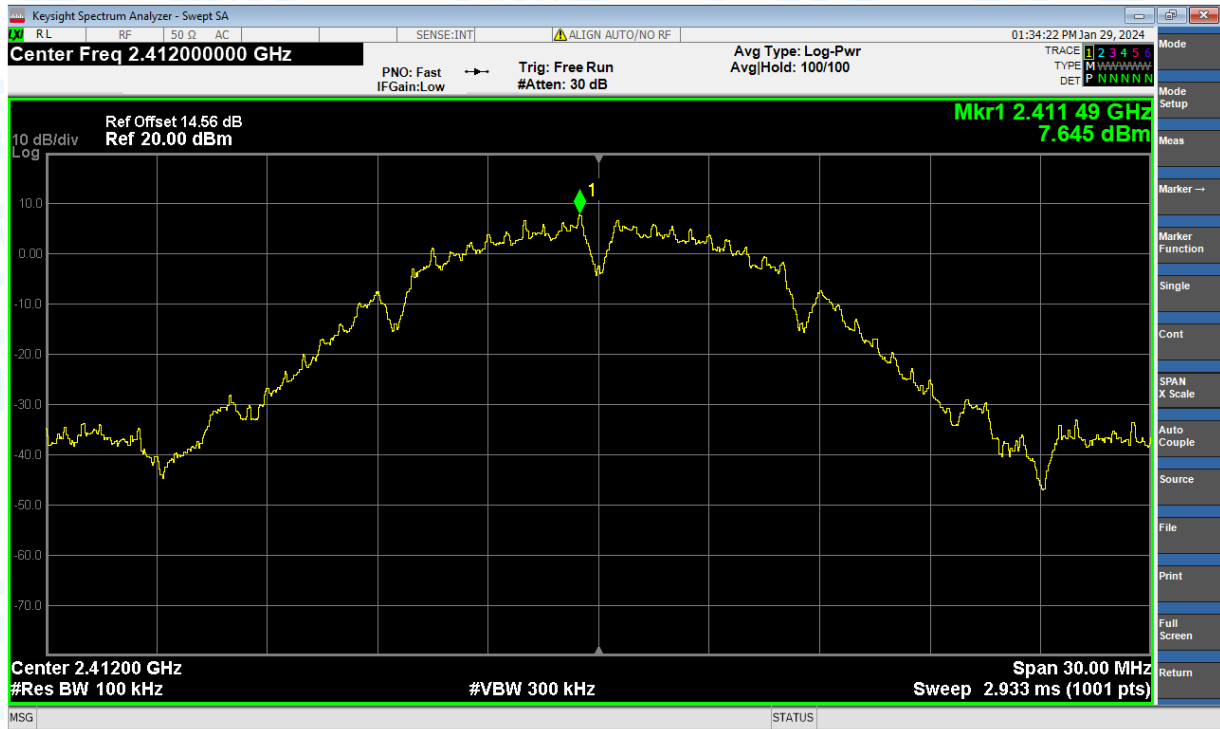


Band Edge NVNT ax(VHT40) 2422MHz Ant1 Emission

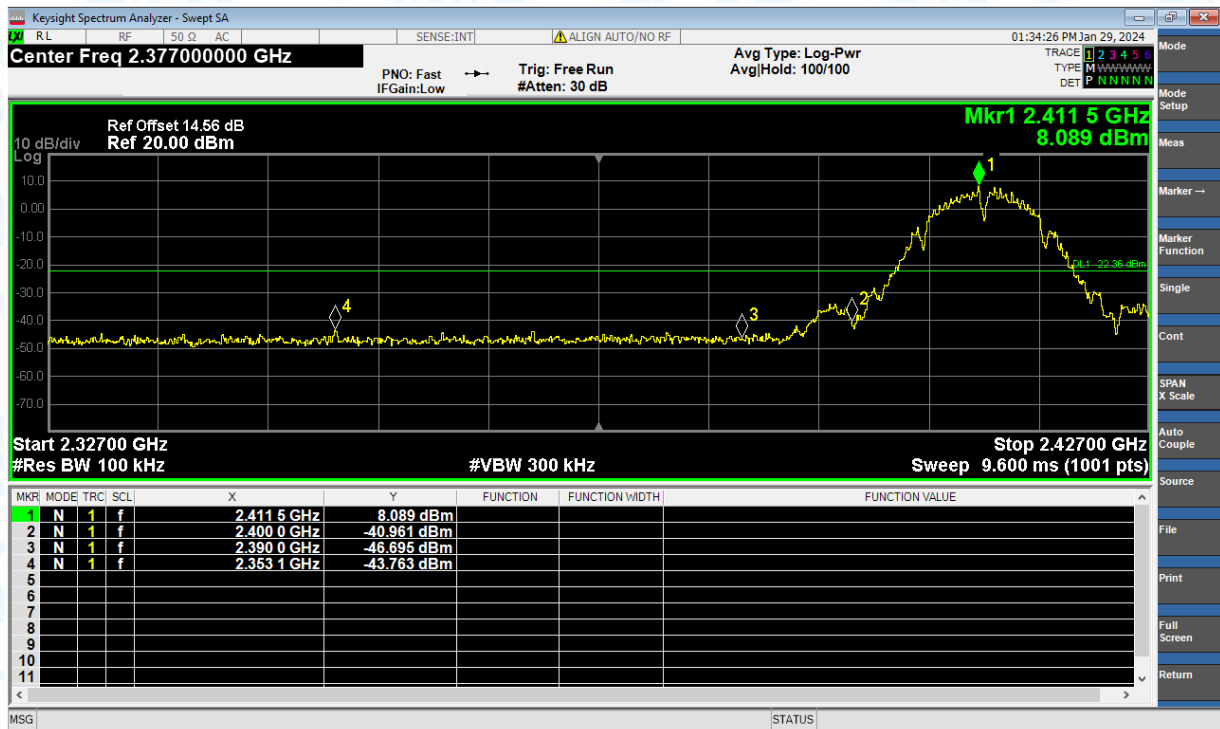




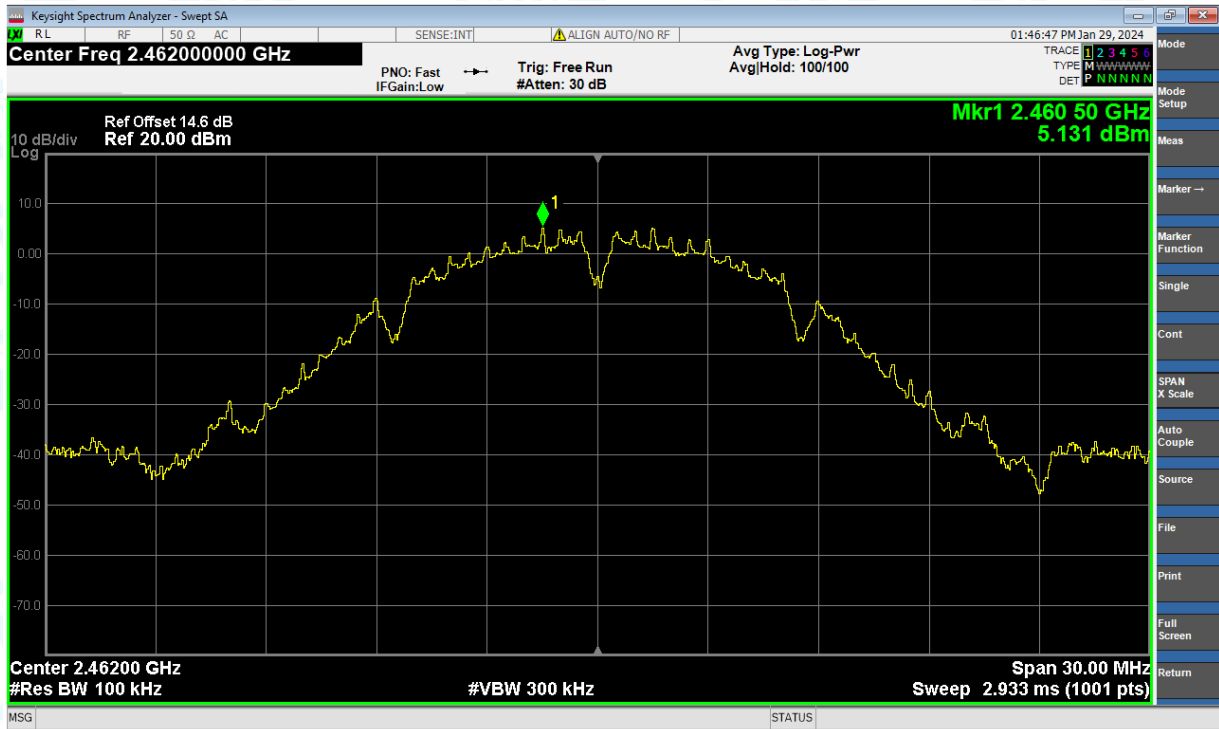
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

