

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	WIFI network mini dome camera
Test Model:	SD-MN2340A-X4D2-W
Sample ID:	RW-C-202302-0299-3-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	56%
Test Voltage:	DC 12V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202302-0299-7 The report only show the worst case data.	

Contents

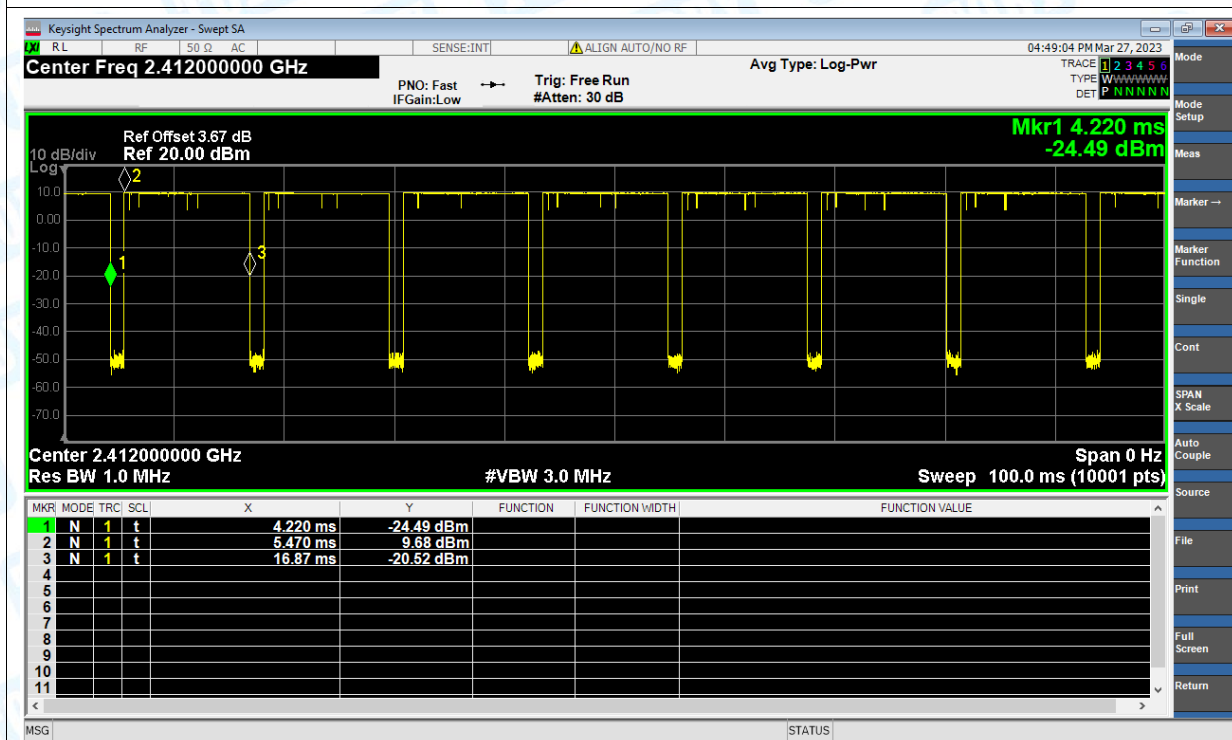
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1. Duty Cycle

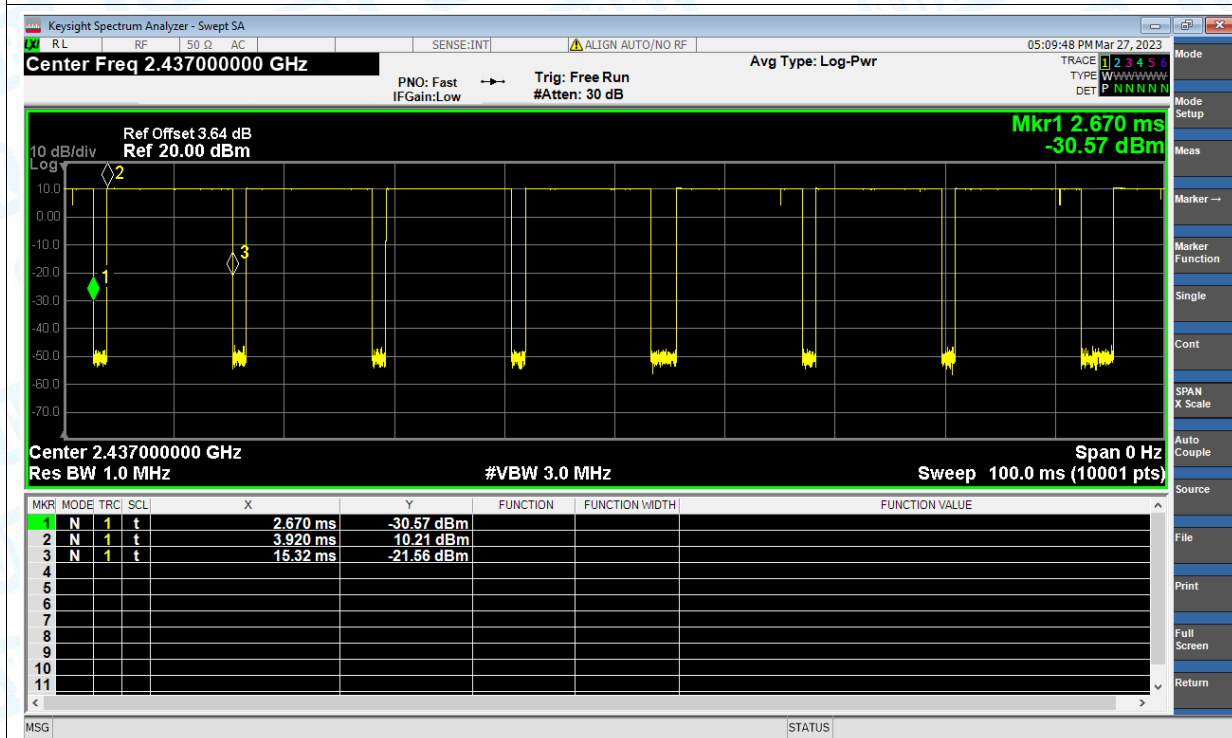
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	90.12	0.45	0.09
NVNT	b	2437	Ant1	90.12	0.45	0.09
NVNT	b	2462	Ant1	90.12	0.45	0.09
NVNT	g	2412	Ant1	89.57	0.48	0.53
NVNT	g	2437	Ant1	89.62	0.48	0.53
NVNT	g	2462	Ant1	89.62	0.48	0.53
NVNT	n(HT20)	2412	Ant1	89.85	0.46	0.56
NVNT	n(HT20)	2437	Ant1	89.85	0.46	0.56
NVNT	n(HT20)	2462	Ant1	89.34	0.49	0.57
NVNT	n(HT40)	2422	Ant1	80.56	0.94	1.15
NVNT	n(HT40)	2437	Ant1	81.31	0.9	1.15
NVNT	n(HT40)	2452	Ant1	80.56	0.94	1.15

Test Graphs

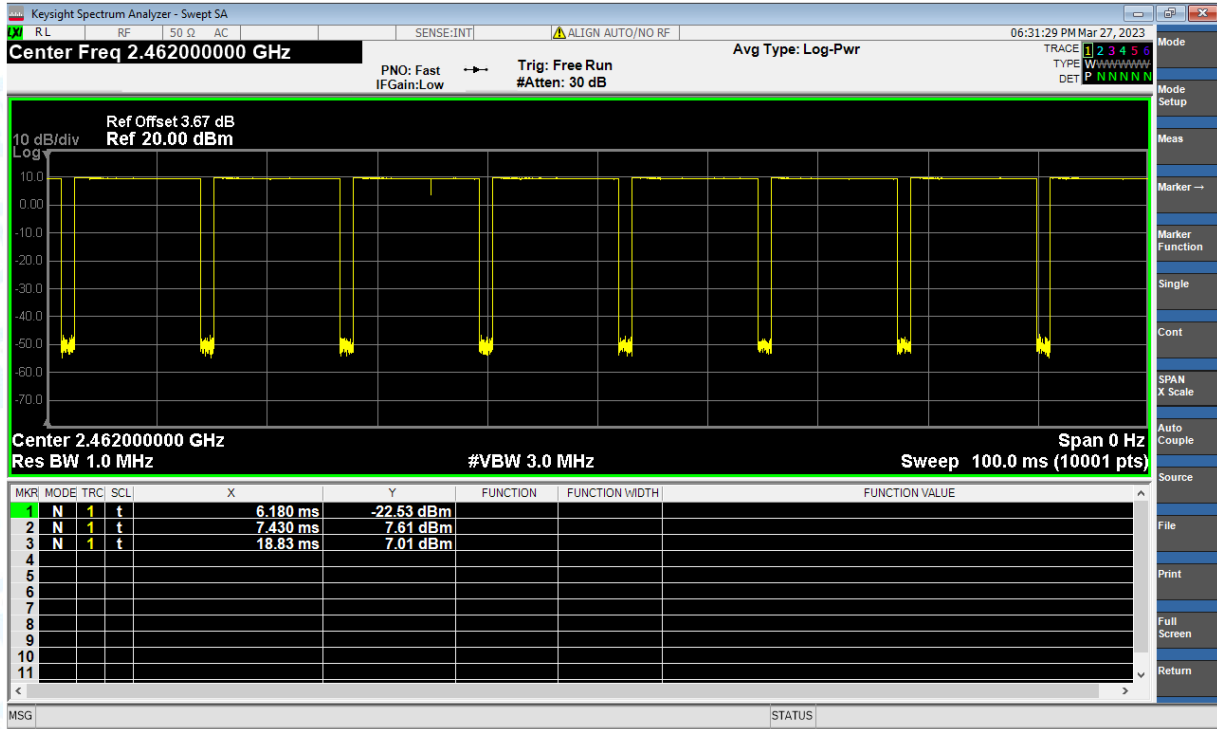
Duty Cycle NVNT b 2412MHz Ant1



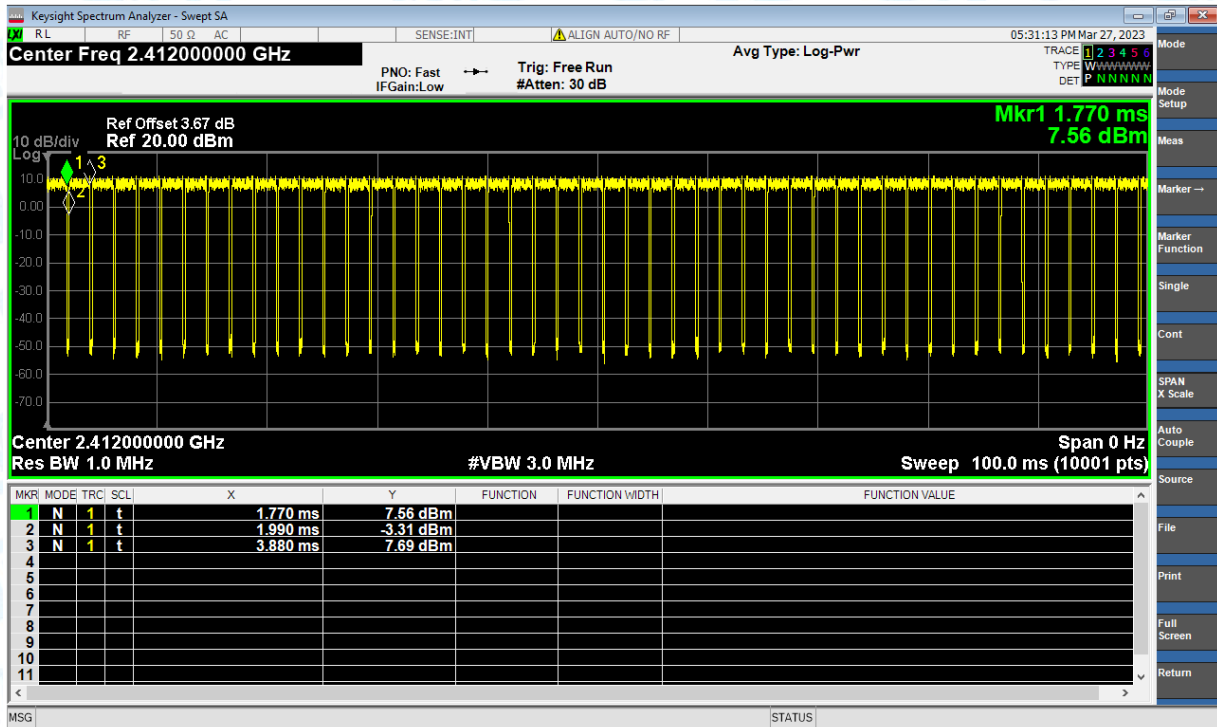
Duty Cycle NVNT b 2437MHz Ant1



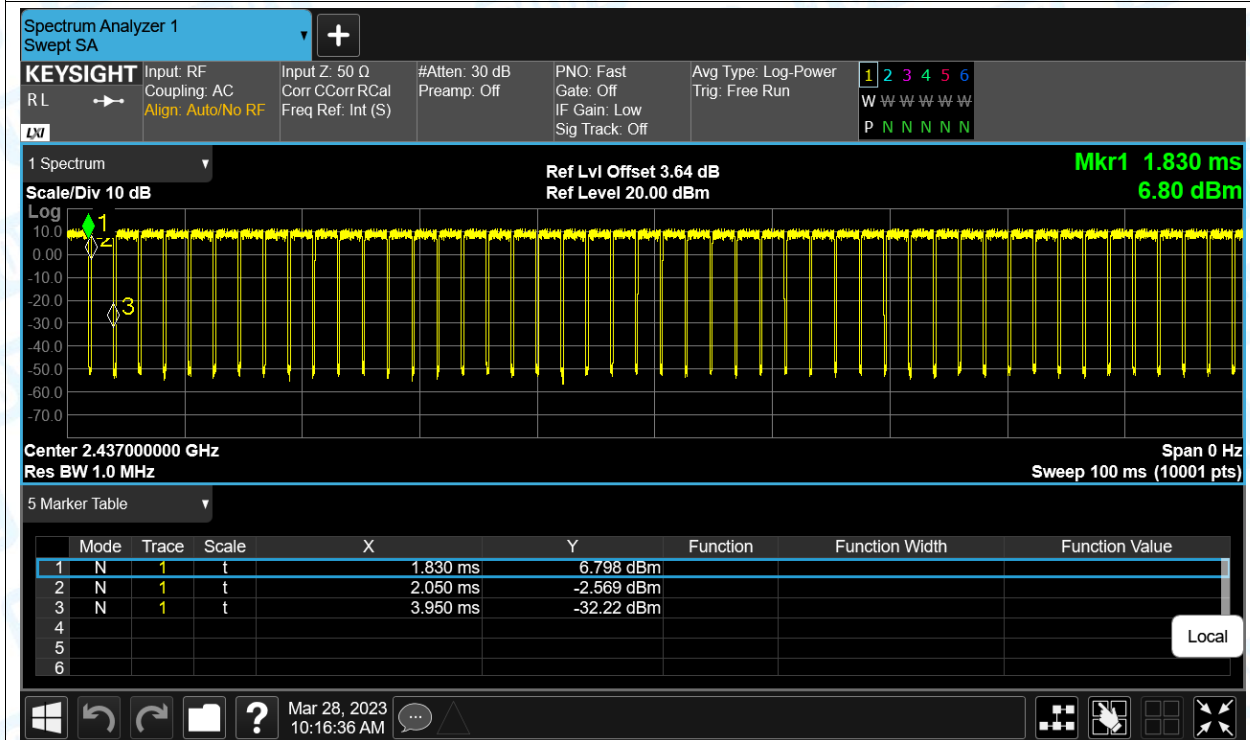
Duty Cycle NVNT b 2462MHz Ant1



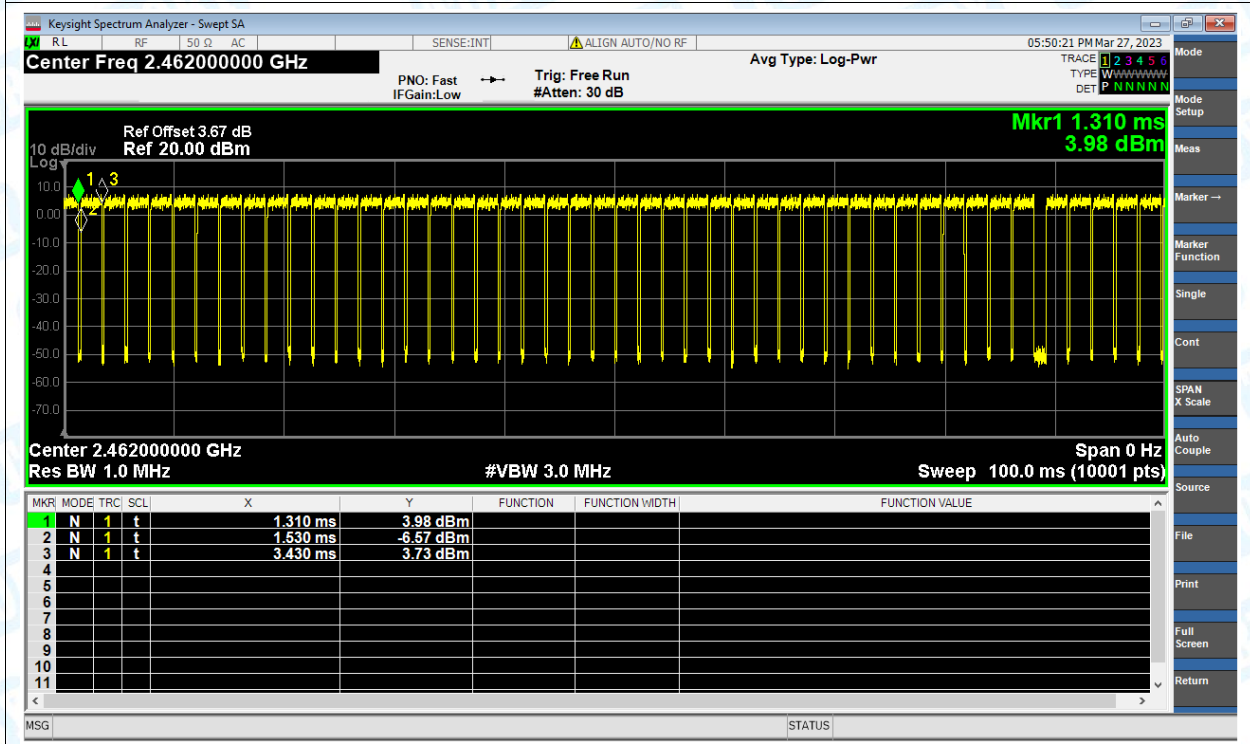
Duty Cycle NVNT g 2412MHz Ant1



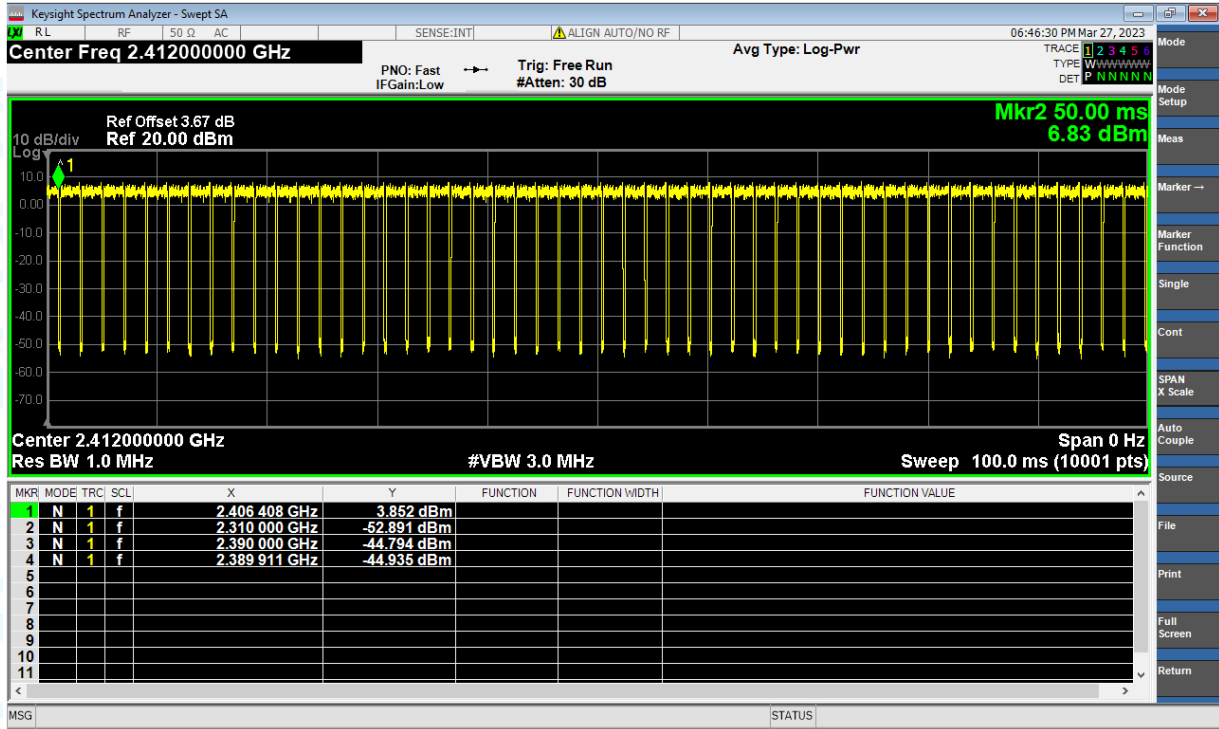
Duty Cycle NVNT g 2437MHz Ant1



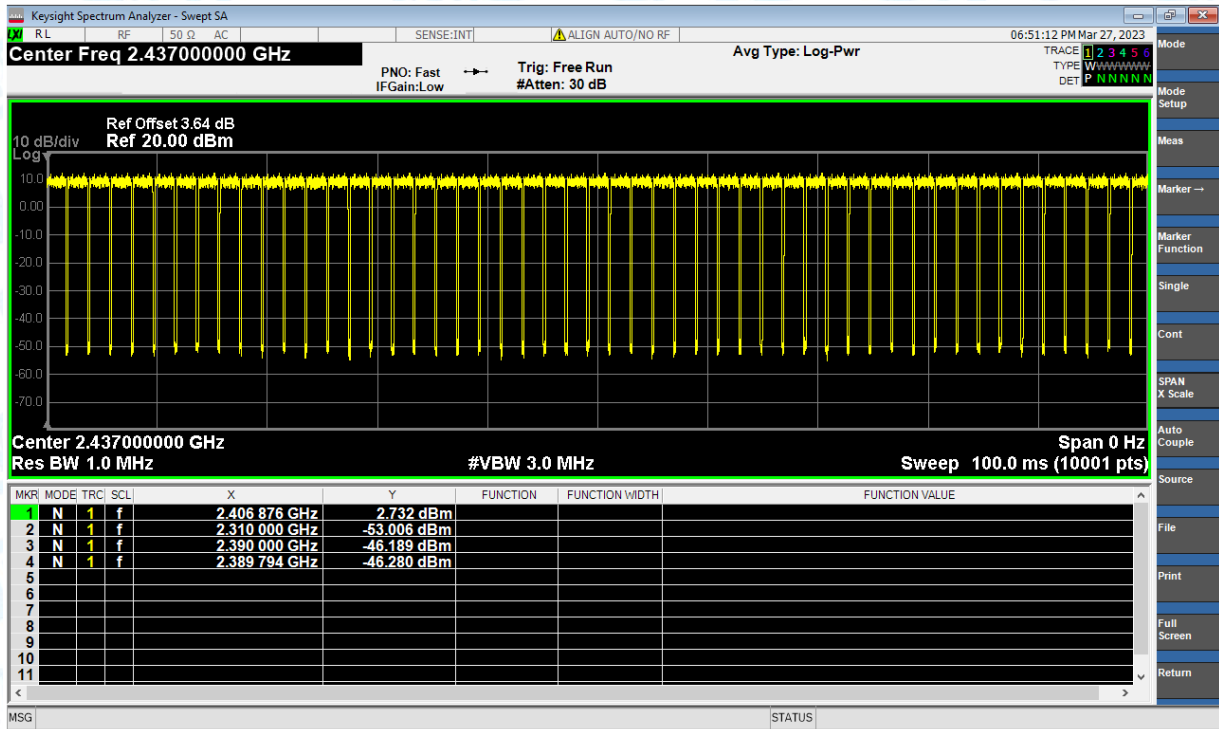
Duty Cycle NVNT g 2462MHz Ant1



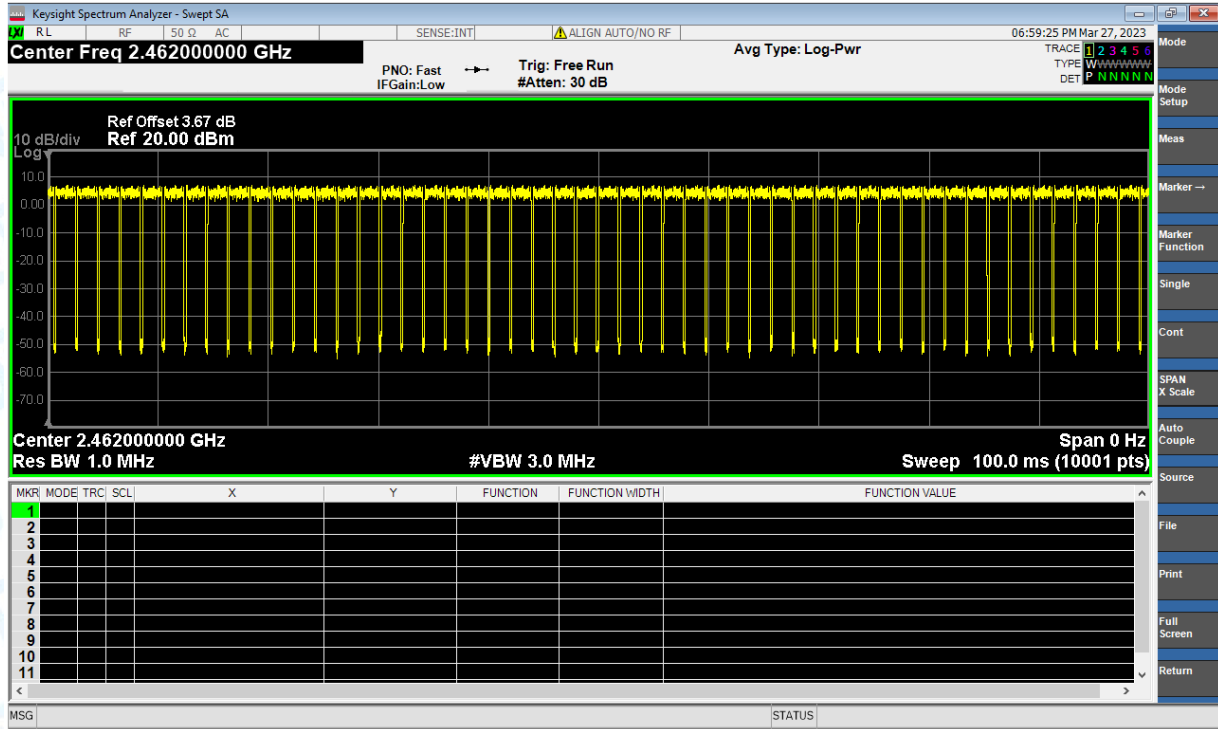
Duty Cycle NVNT n(HT20) 2412MHz Ant1



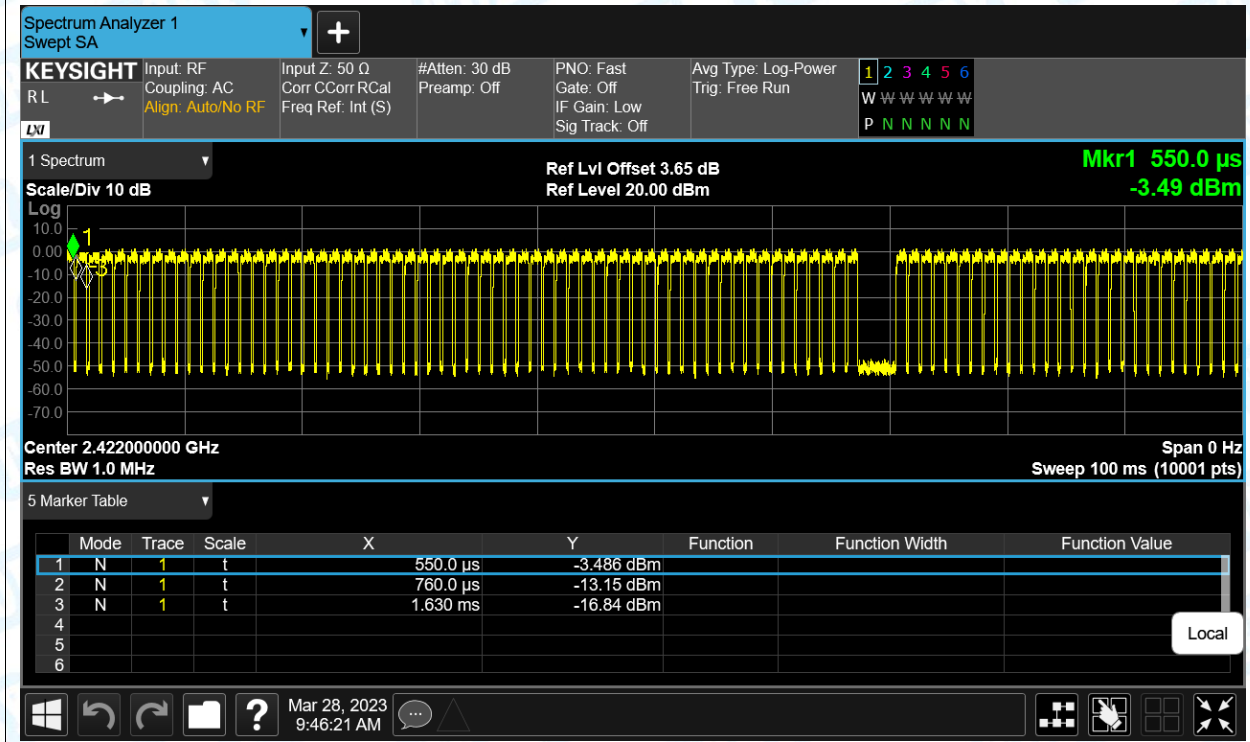
Duty Cycle NVNT n(HT20) 2437MHz Ant1



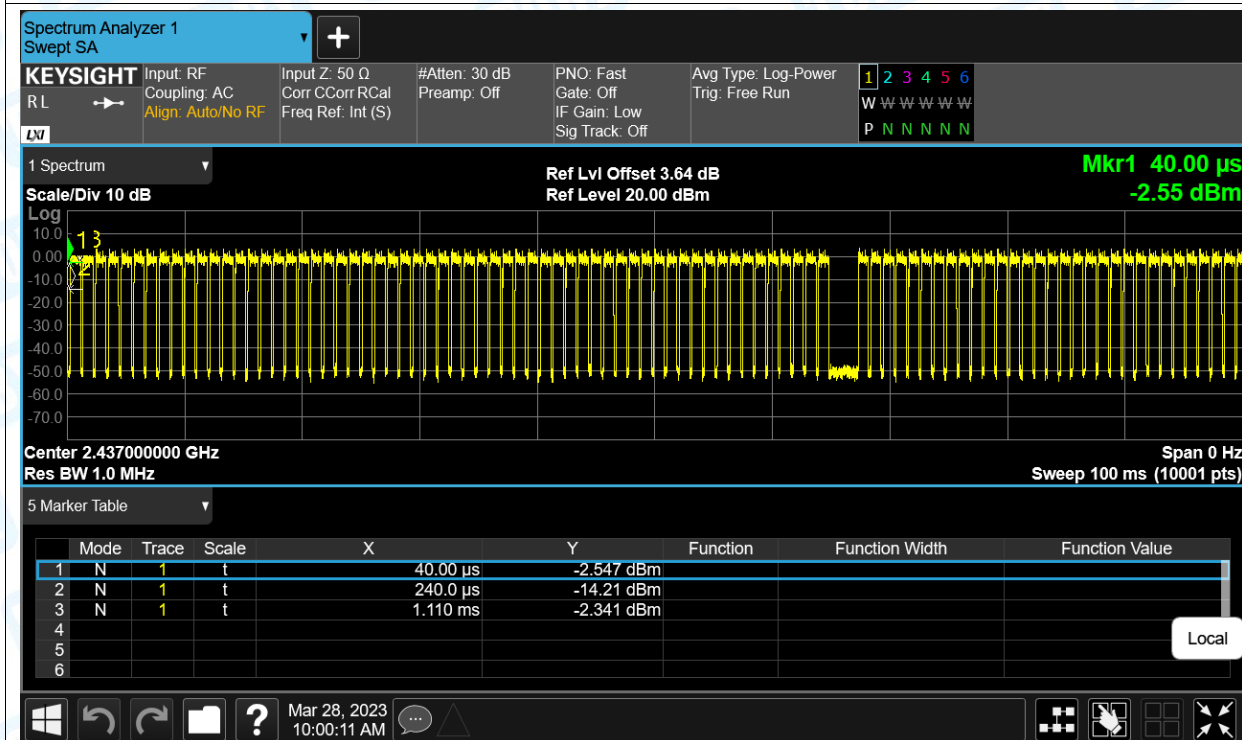
Duty Cycle NVNT n(HT20) 2462MHz Ant1



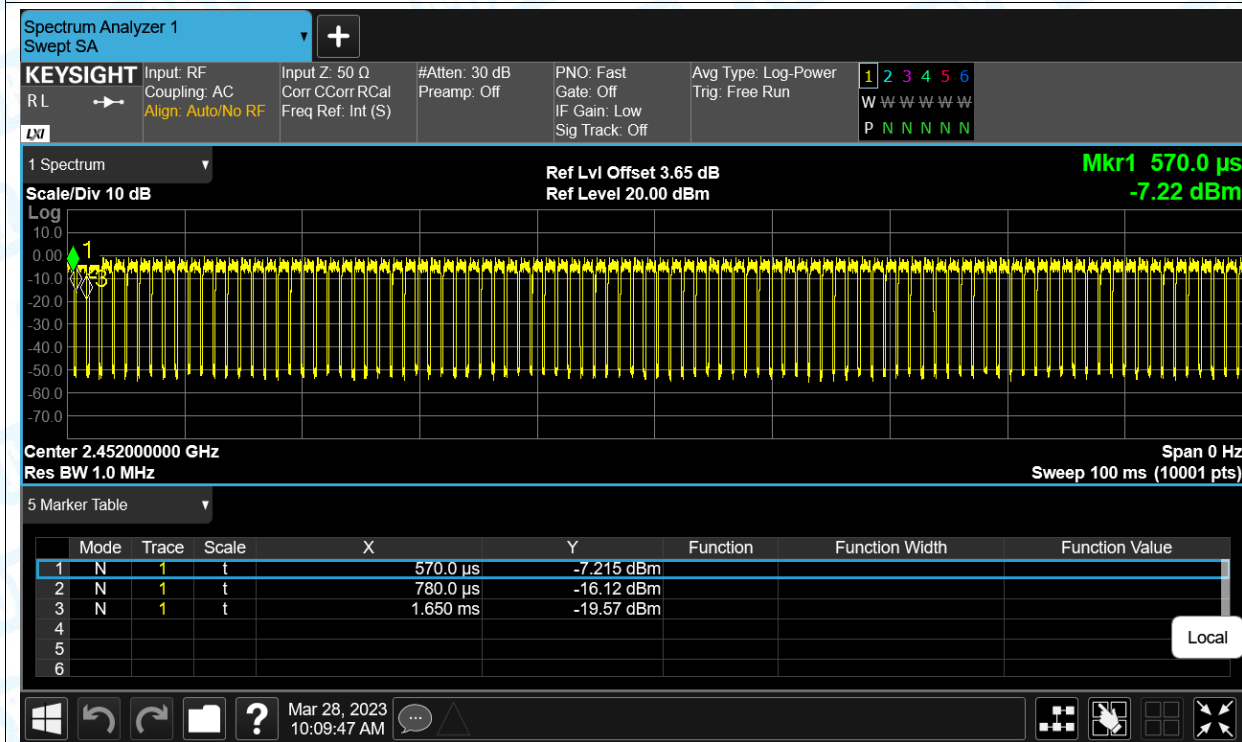
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

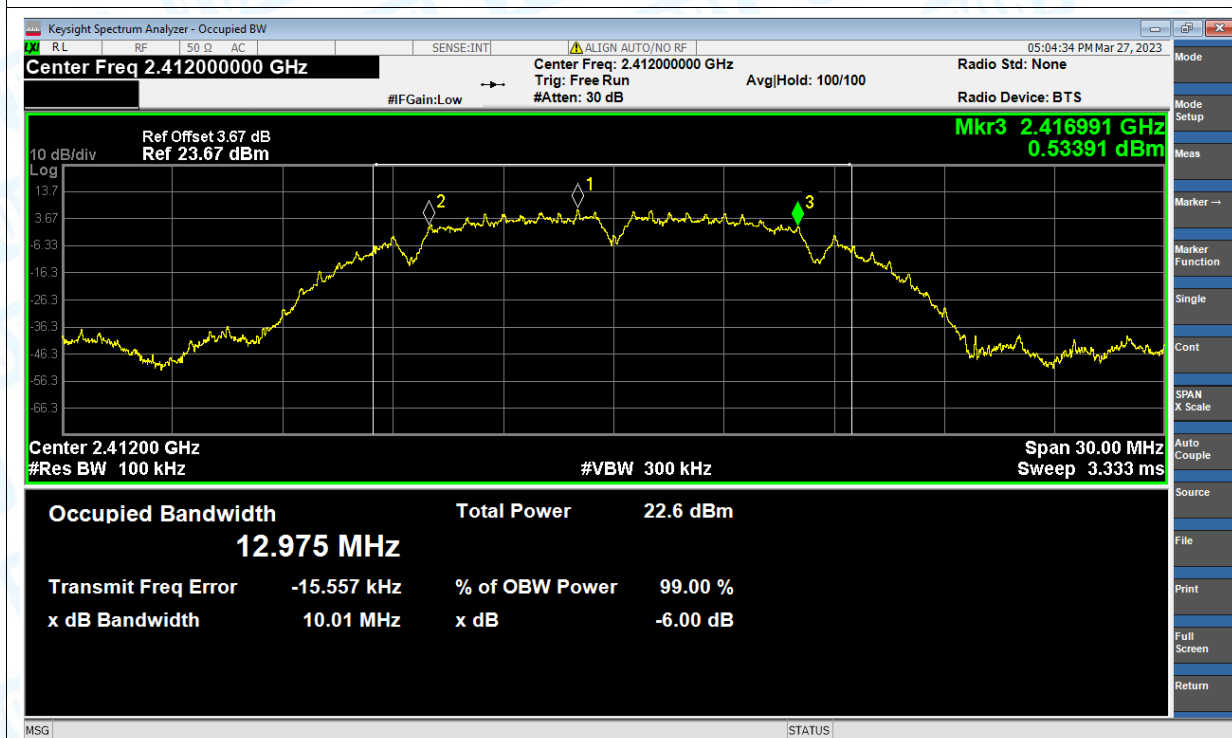
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.659	30	Pass
NVNT	b	2437	Ant1	15.9	30	Pass
NVNT	b	2462	Ant1	13.37	30	Pass
NVNT	g	2412	Ant1	11.315	30	Pass
NVNT	g	2437	Ant1	16.098	30	Pass
NVNT	g	2462	Ant1	11.408	30	Pass
NVNT	n(HT20)	2412	Ant1	11.252	30	Pass
NVNT	n(HT20)	2437	Ant1	16.182	30	Pass
NVNT	n(HT20)	2462	Ant1	11.755	30	Pass
NVNT	n(HT40)	2422	Ant1	7.679	30	Pass
NVNT	n(HT40)	2437	Ant1	15.852	30	Pass
NVNT	n(HT40)	2452	Ant1	9.223	30	Pass

3. -6dB Bandwidth

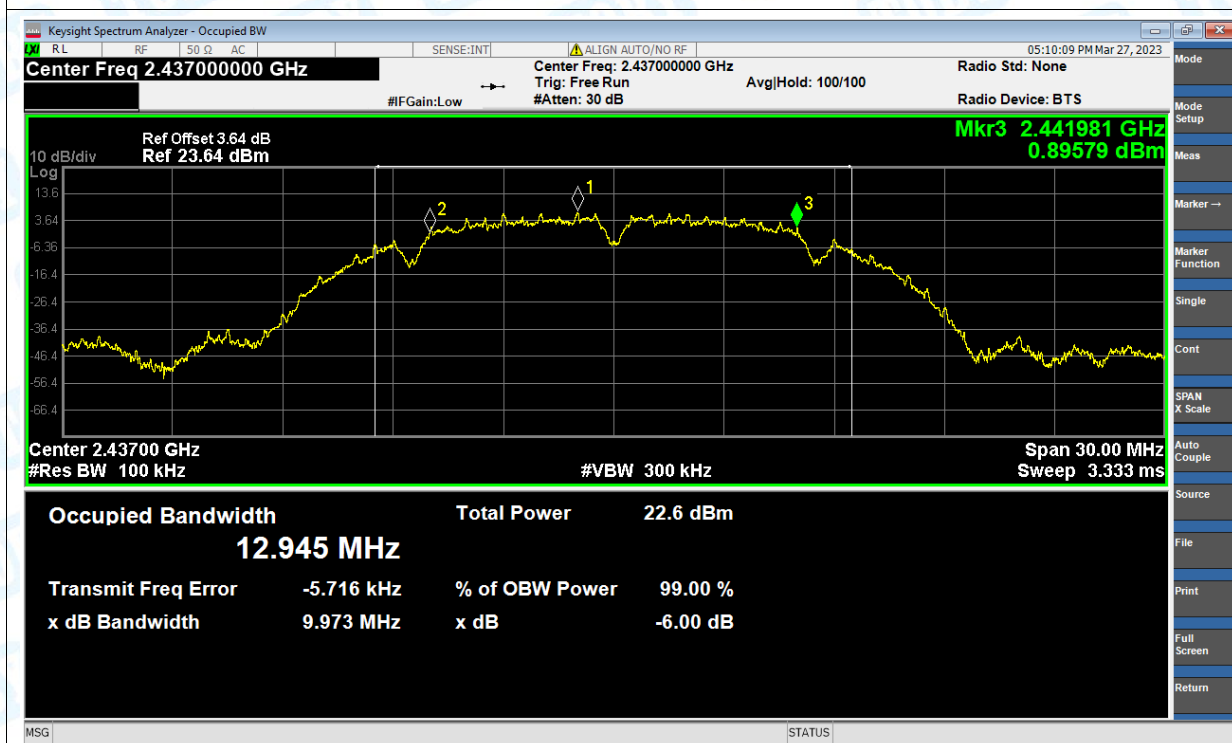
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.01	0.5	Pass
NVNT	b	2437	Ant1	9.97	0.5	Pass
NVNT	b	2462	Ant1	10	0.5	Pass
NVNT	g	2412	Ant1	16.34	0.5	Pass
NVNT	g	2437	Ant1	16.37	0.5	Pass
NVNT	g	2462	Ant1	16.37	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.31	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.04	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.07	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.09	0.5	Pass
NVNT	n(HT40)	2437	Ant1	1.02	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.32	0.5	Pass

Test Graphs

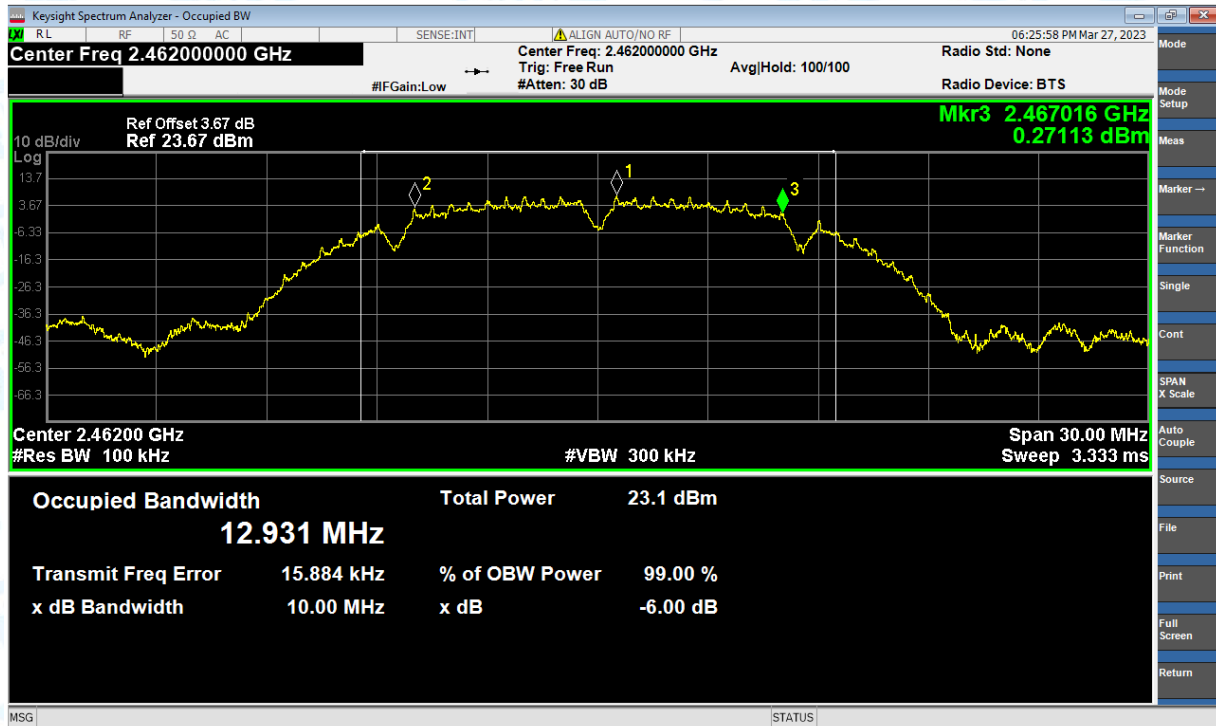
-6dB Bandwidth NVNT b 2412MHz Ant1



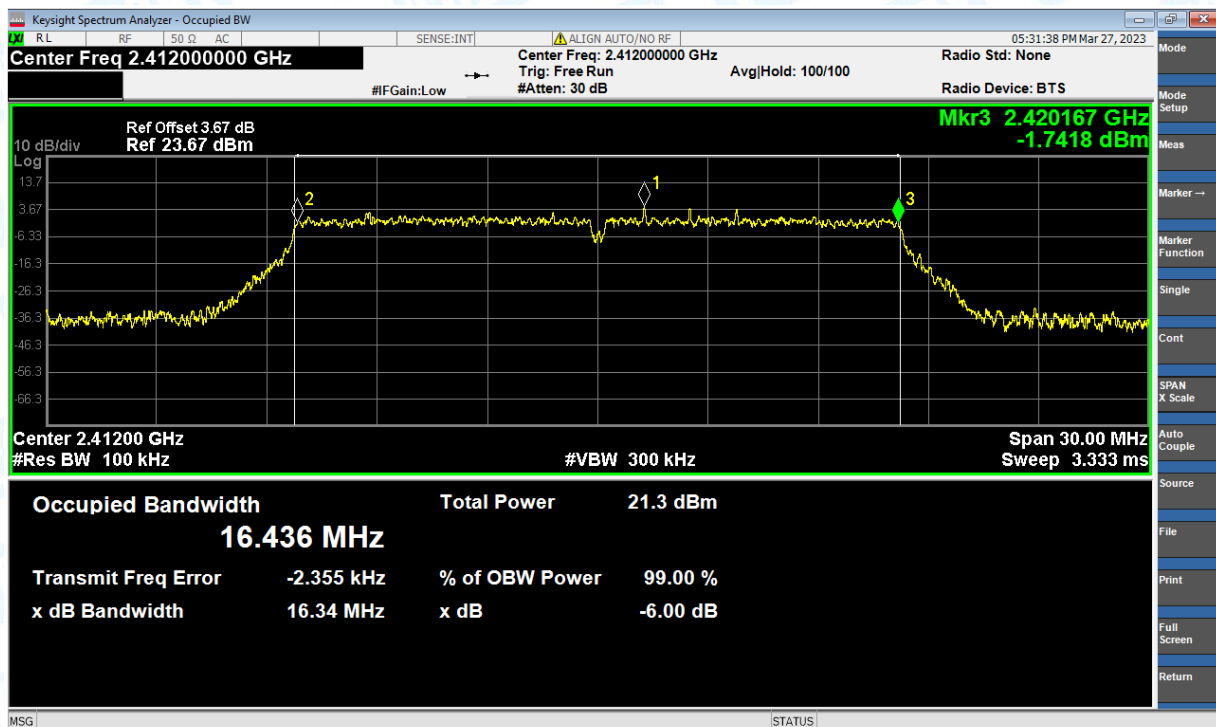
-6dB Bandwidth NVNT b 2437MHz Ant1



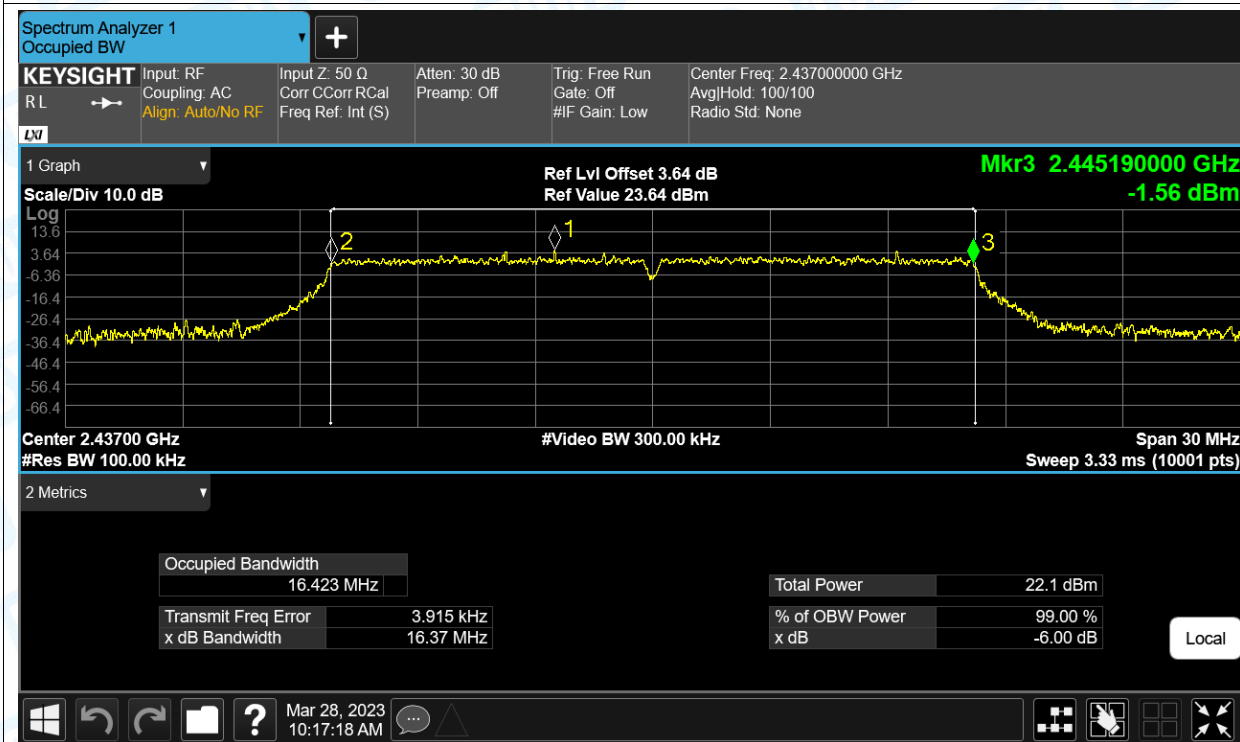
-6dB Bandwidth NVNT b 2462MHz Ant1



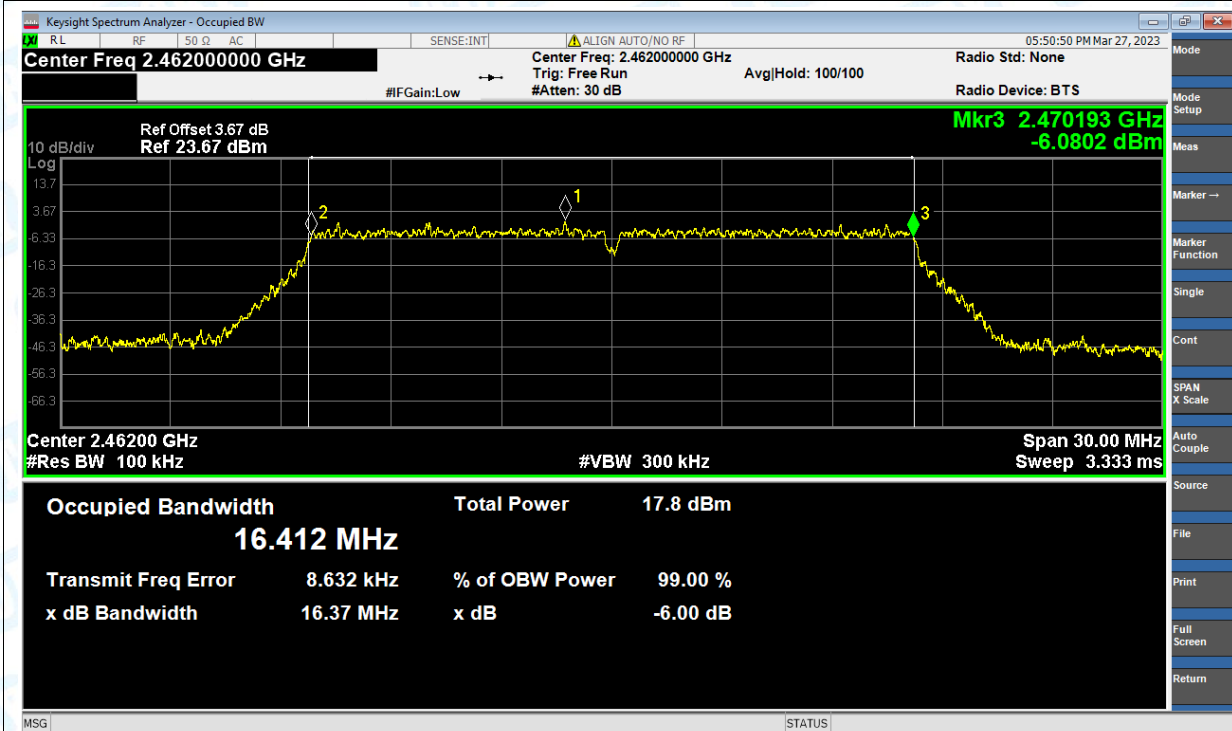
-6dB Bandwidth NVNT g 2412MHz Ant1



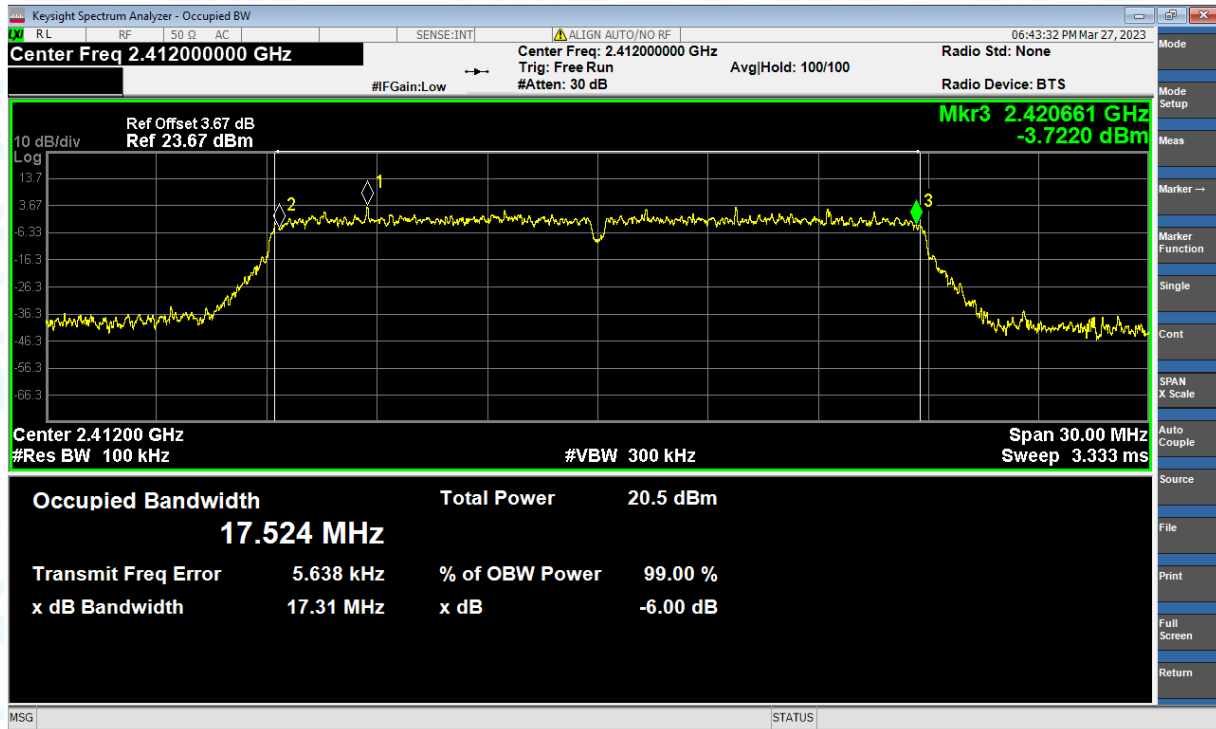
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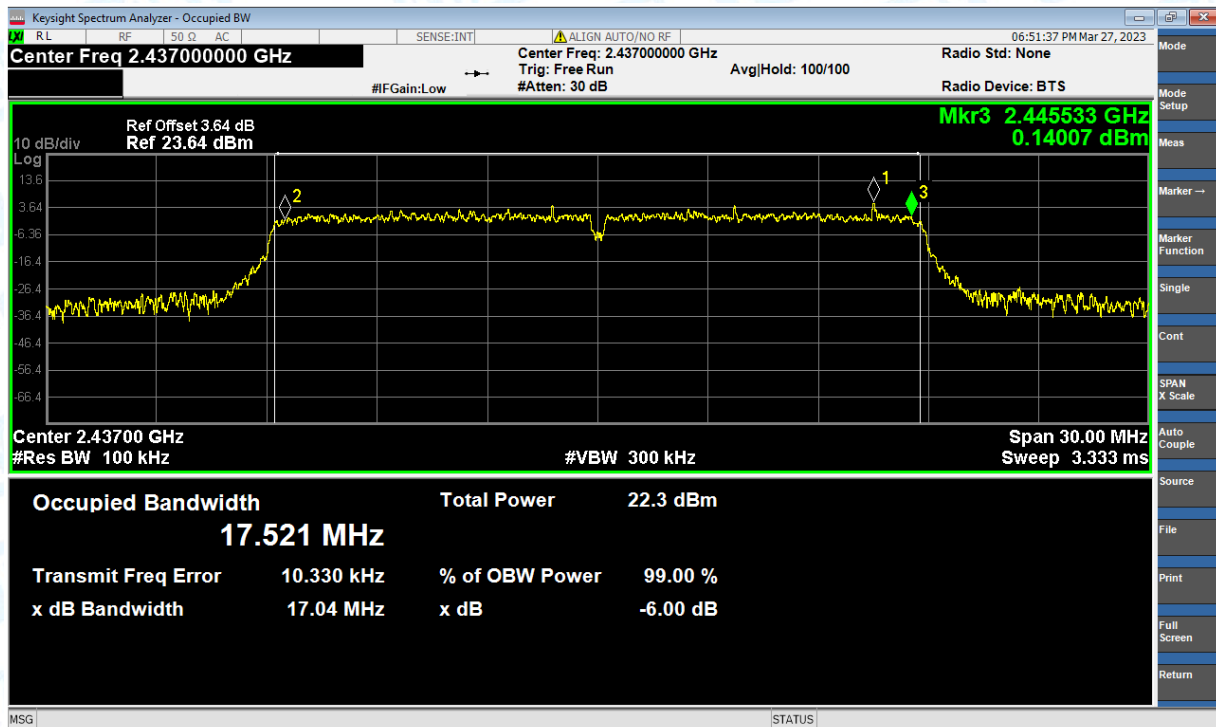
-6dB Bandwidth NVNT g 2462MHz Ant1



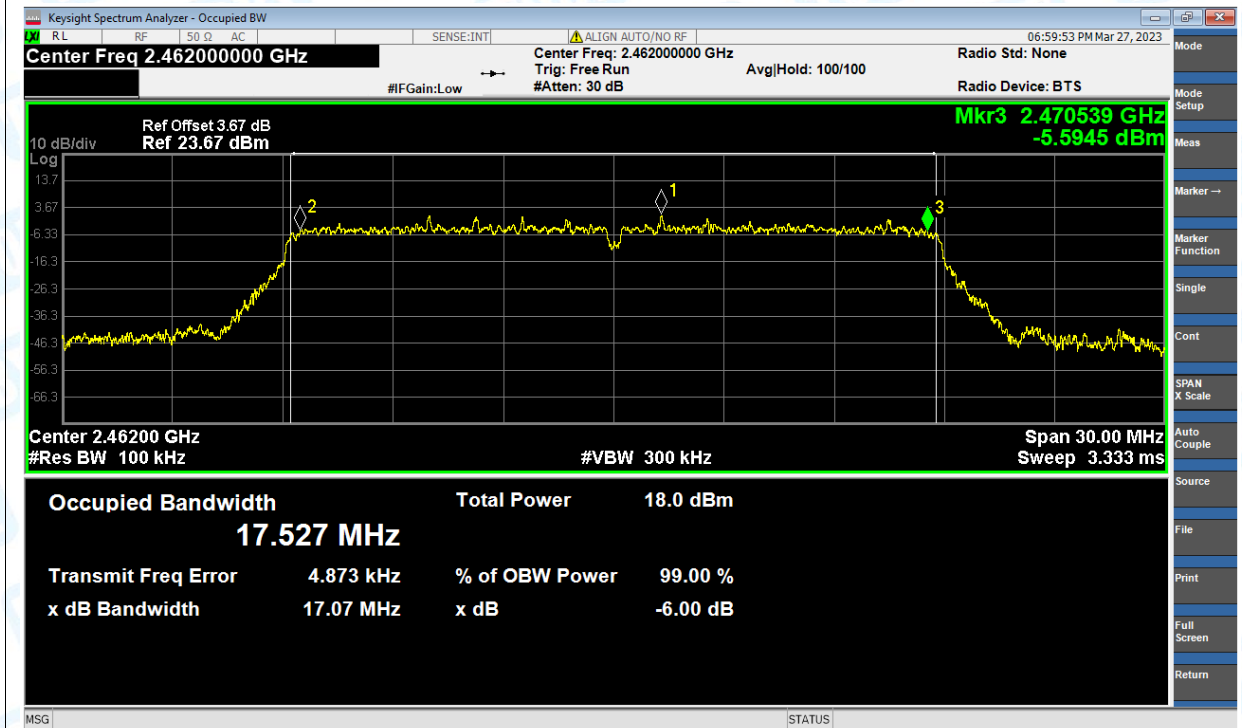
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



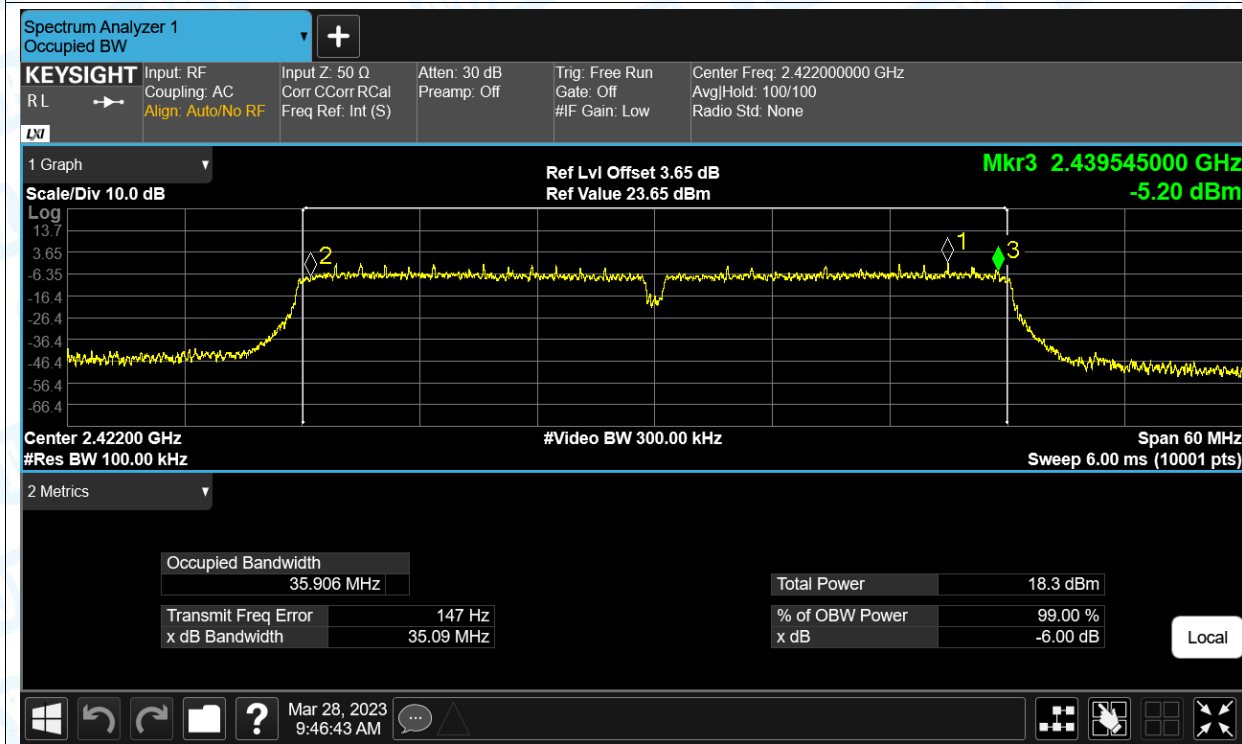
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



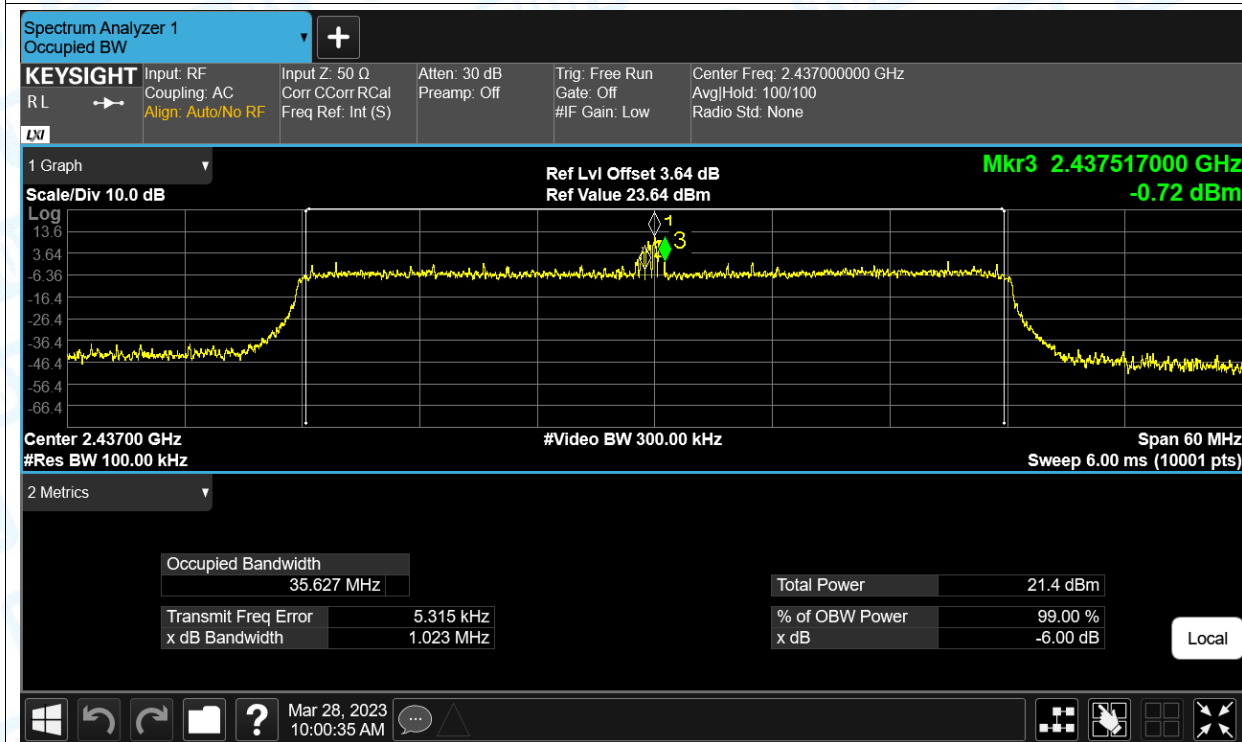
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



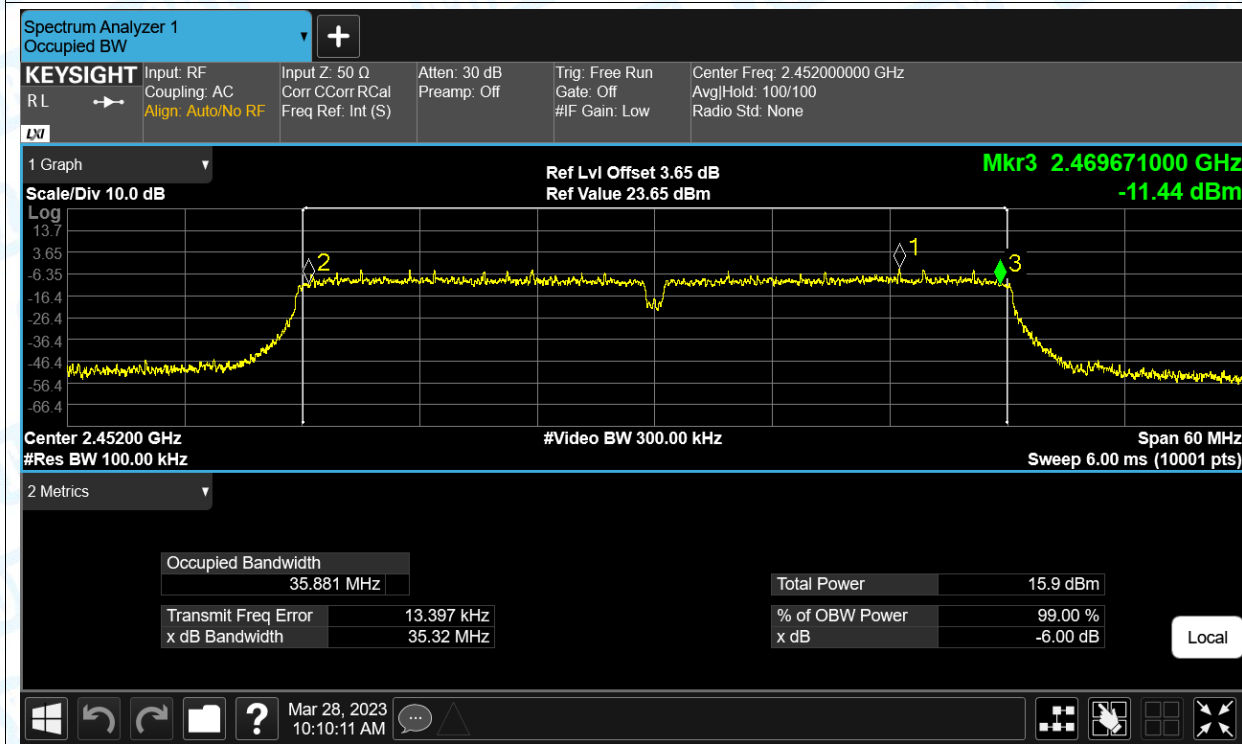
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

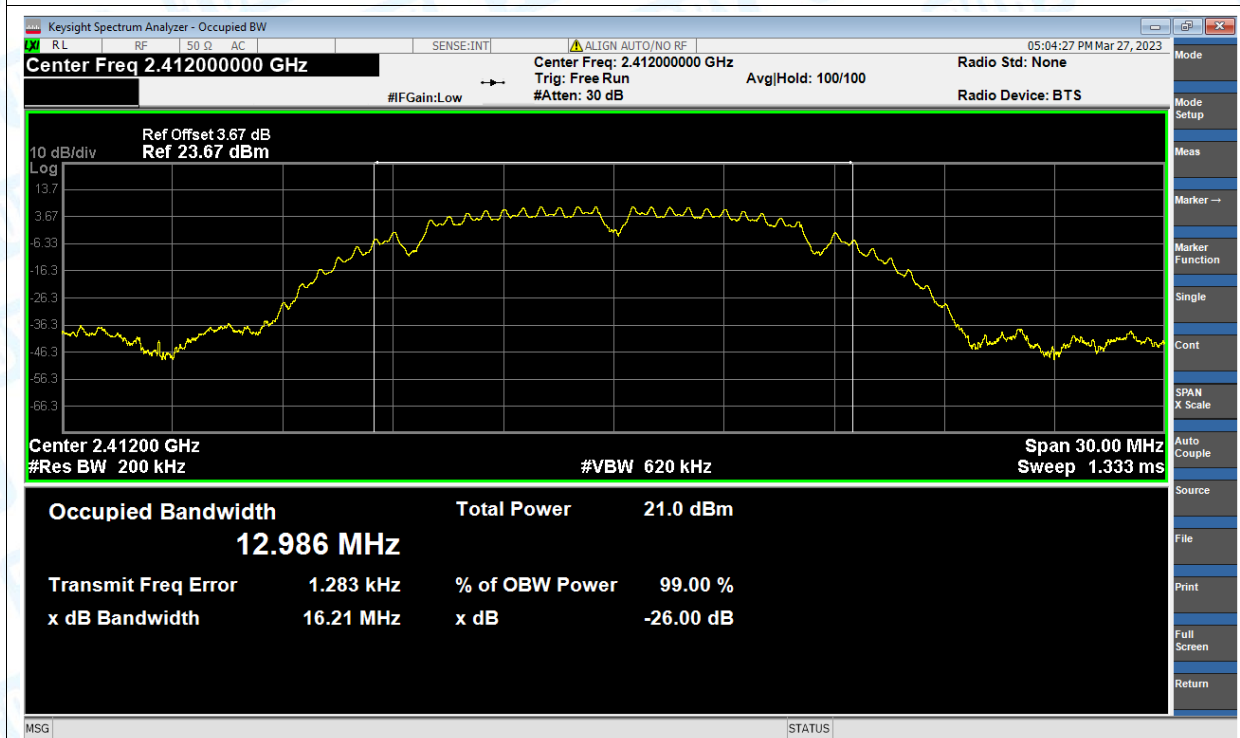


4. Occupied Channel Bandwidth

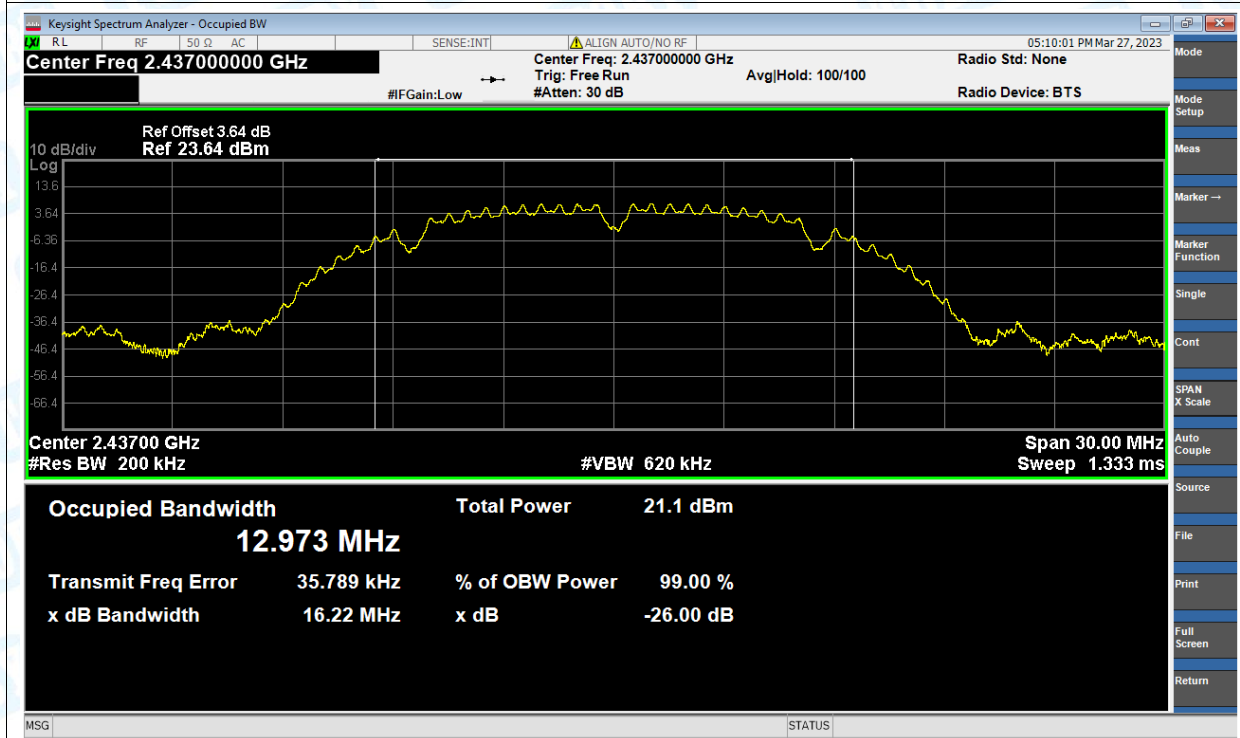
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.986
NVNT	b	2437	Ant1	12.973
NVNT	b	2462	Ant1	12.995
NVNT	g	2412	Ant1	16.496
NVNT	g	2437	Ant1	16.494
NVNT	g	2462	Ant1	16.516
NVNT	n(HT20)	2412	Ant1	17.515
NVNT	n(HT20)	2437	Ant1	17.517
NVNT	n(HT20)	2462	Ant1	17.536
NVNT	n(HT40)	2422	Ant1	35.968
NVNT	n(HT40)	2437	Ant1	35.96
NVNT	n(HT40)	2452	Ant1	35.934

Test Graphs

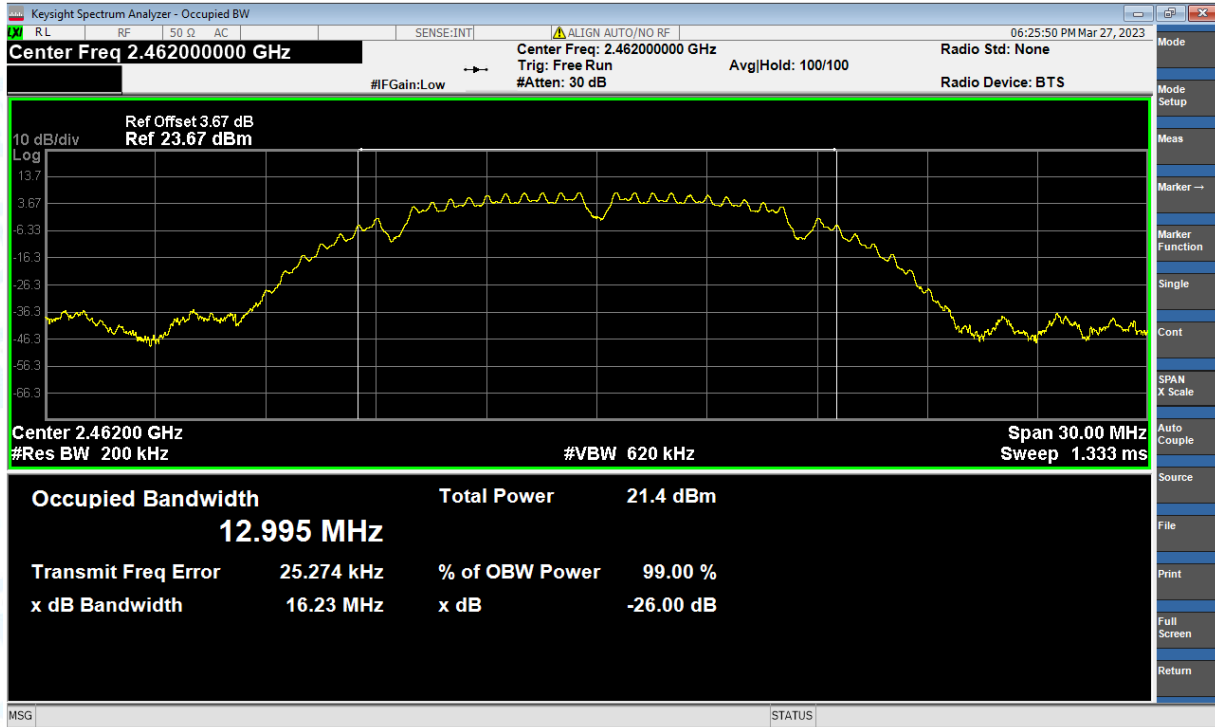
OBW NVNT b 2412MHz Ant1



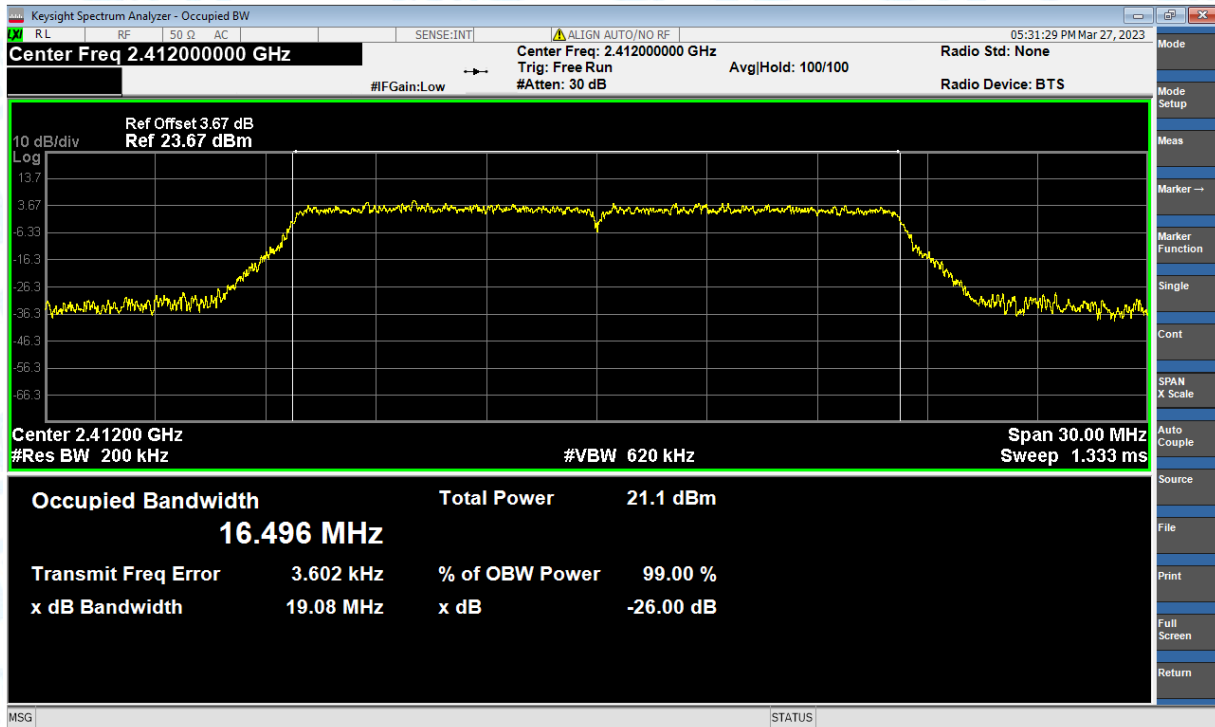
OBW NVNT b 2437MHz Ant1



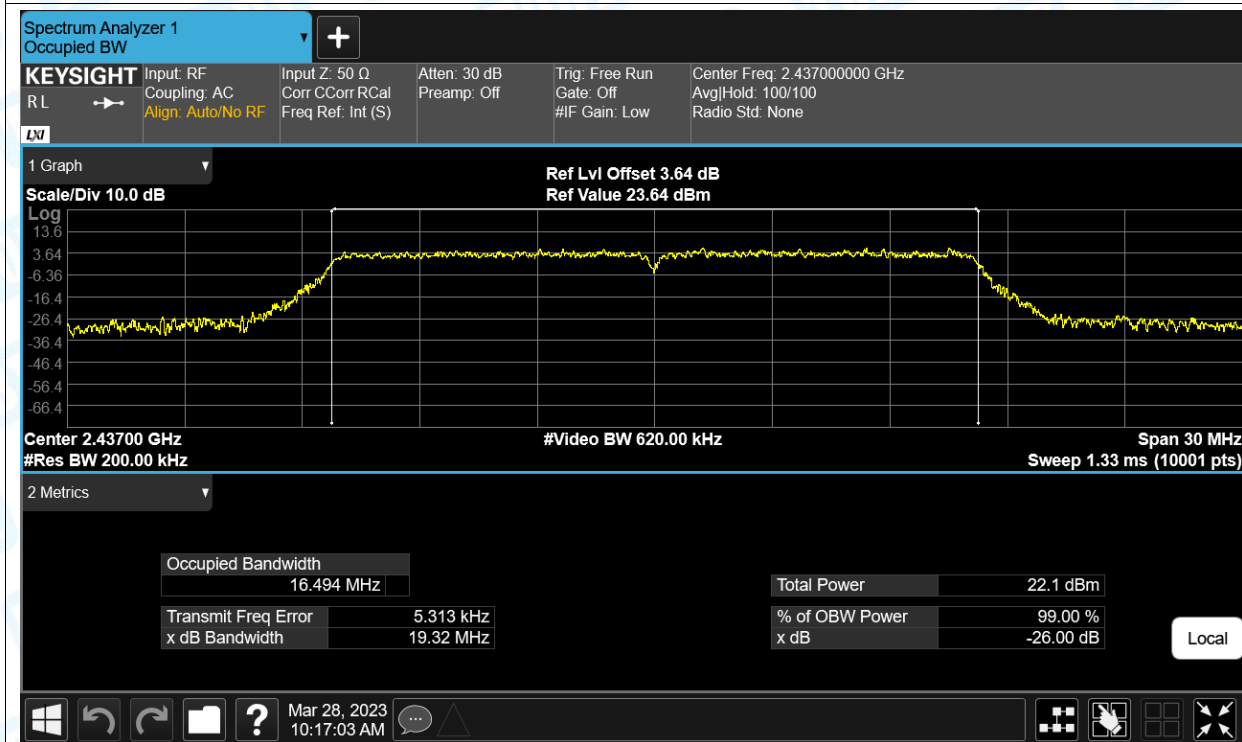
OBW NVNT b 2462MHz Ant1



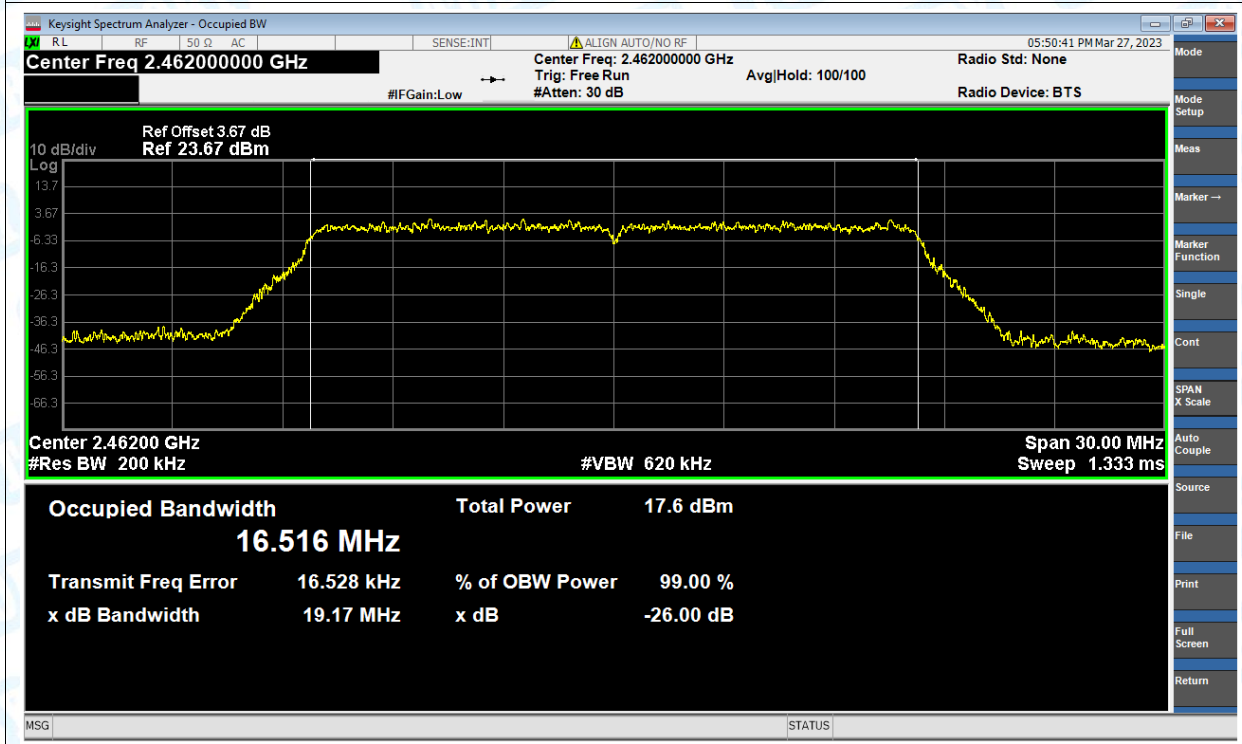
OBW NVNT g 2412MHz Ant1



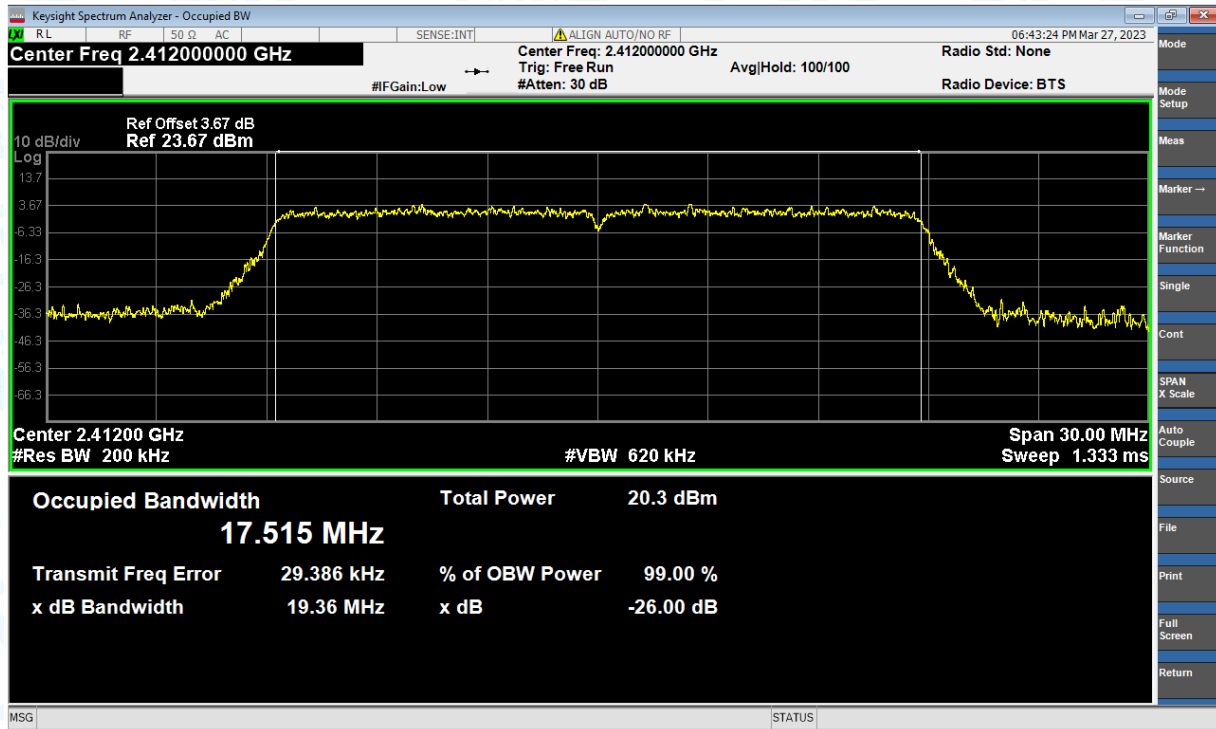
OBW NVNT g 2437MHz Ant1



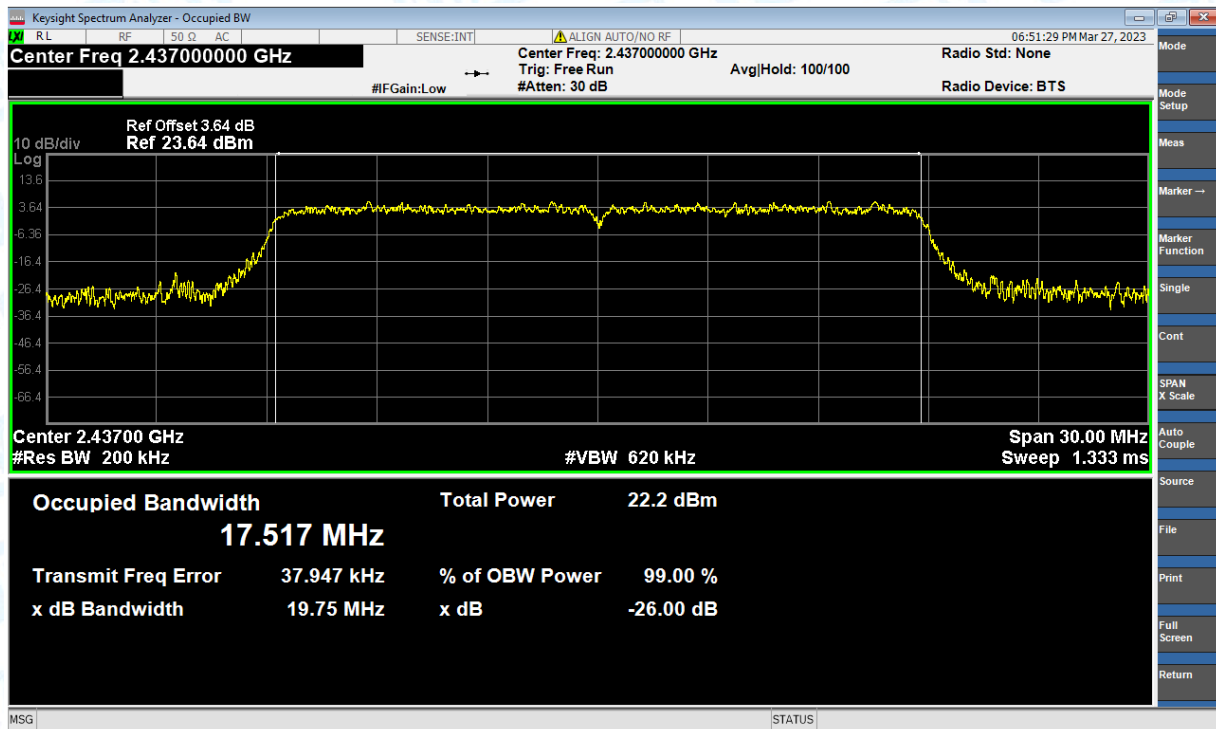
OBW NVNT g 2462MHz Ant1



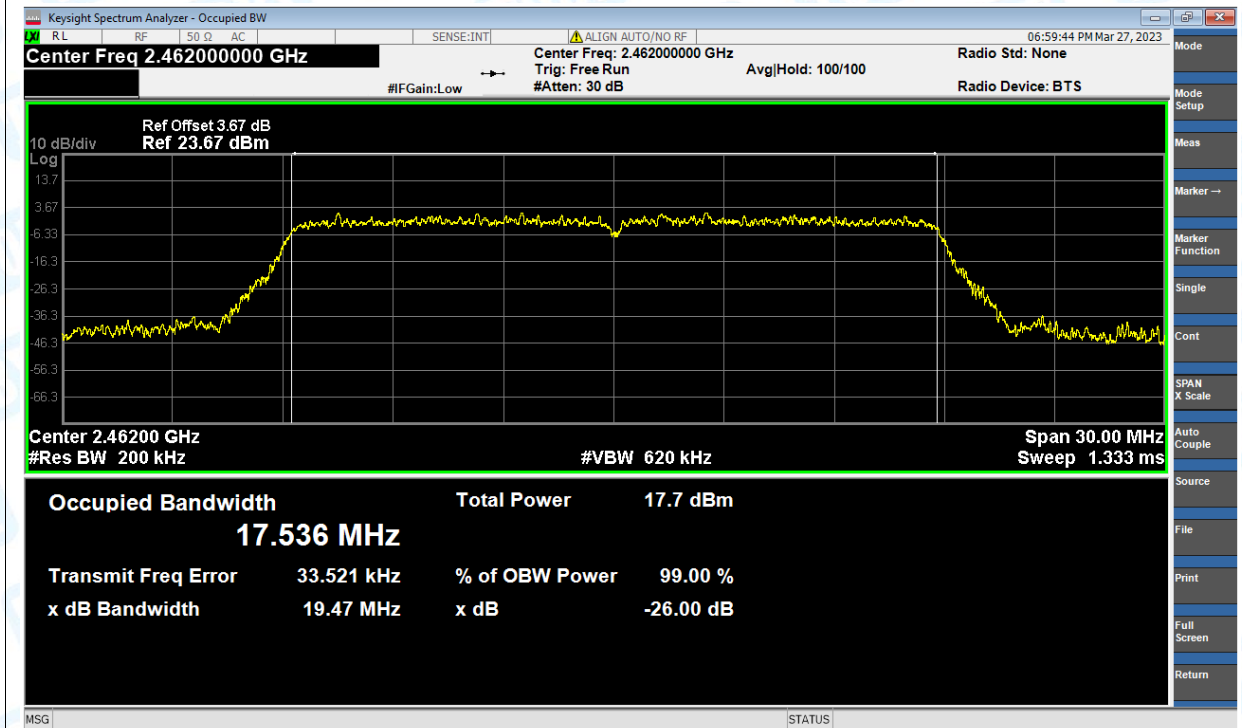
OBW NVNT n(HT20) 2412MHz Ant1



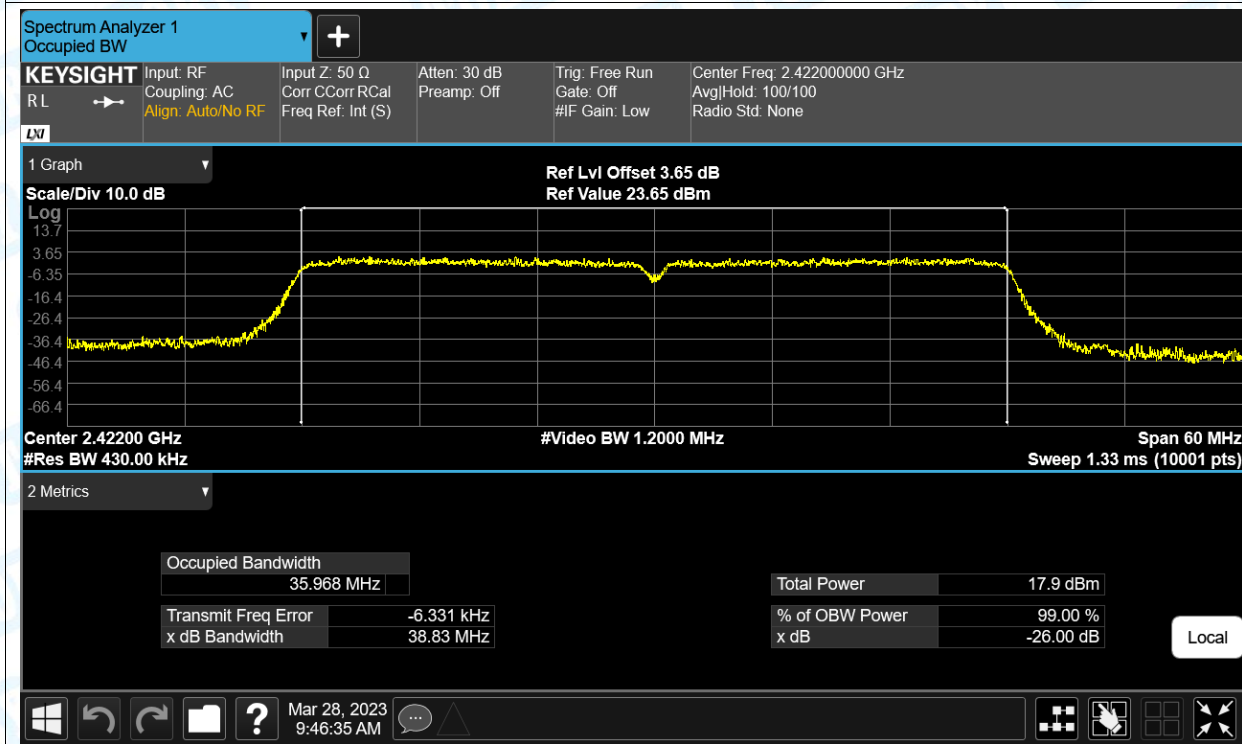
OBW NVNT n(HT20) 2437MHz Ant1



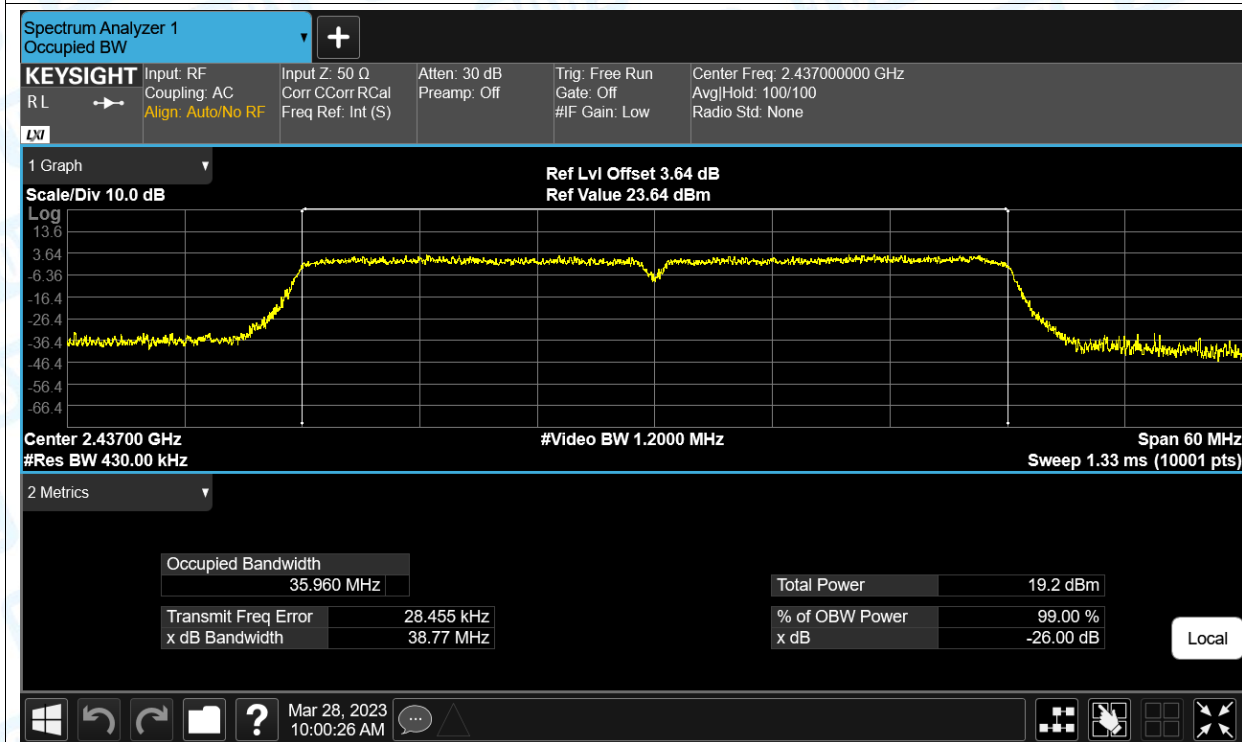
OBW NVNT n(HT20) 2462MHz Ant1



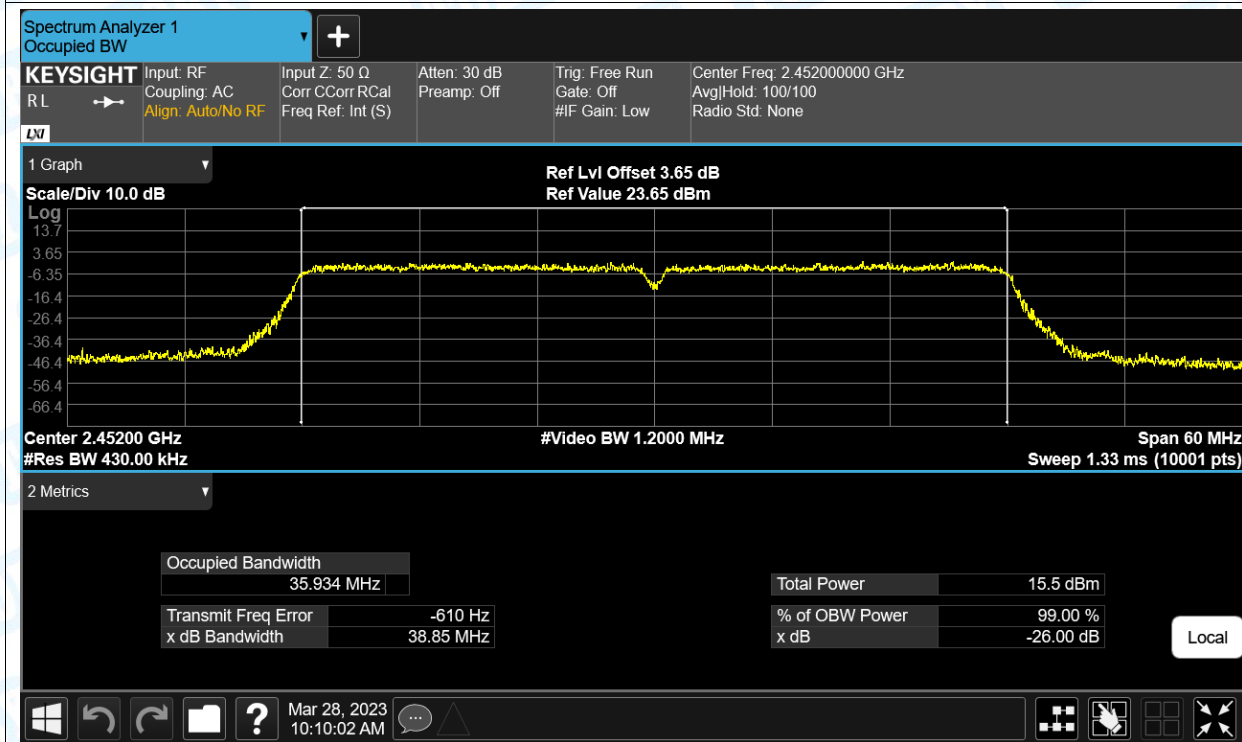
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

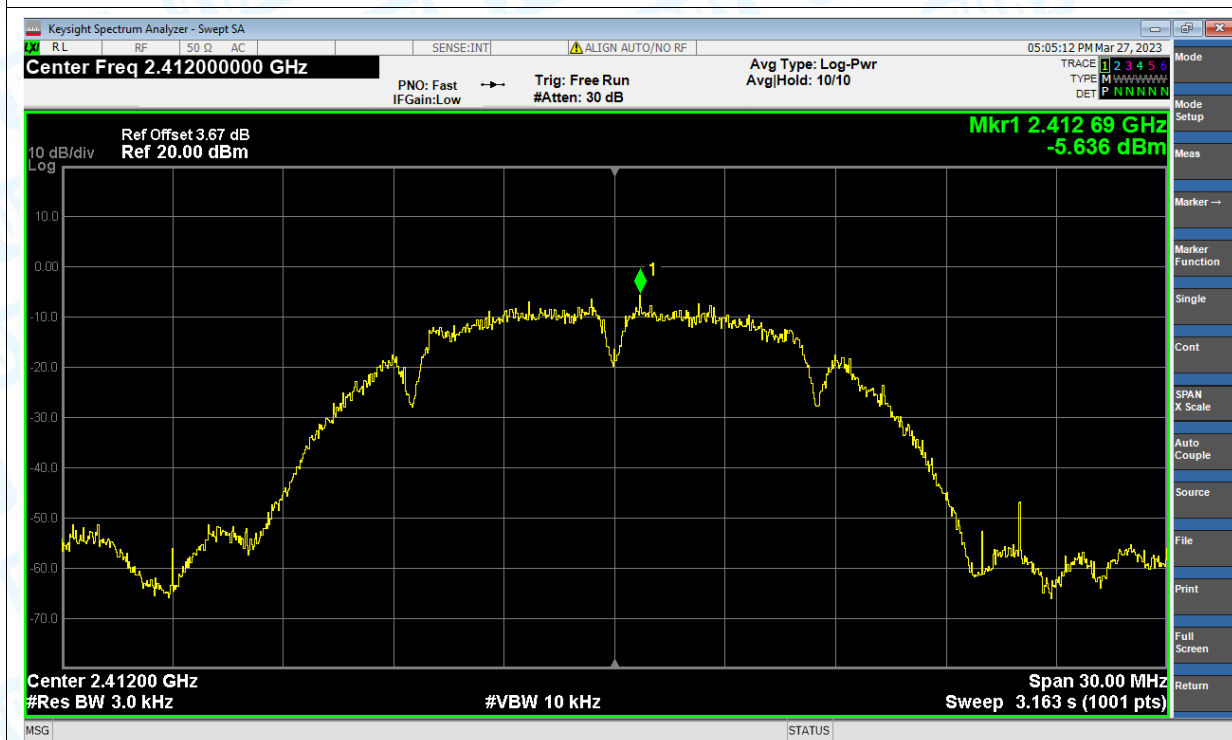


5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-5.636	8	Pass
NVNT	b	2437	Ant1	-6.398	8	Pass
NVNT	b	2462	Ant1	-8.61	8	Pass
NVNT	g	2412	Ant1	-7.111	8	Pass
NVNT	g	2437	Ant1	-9.465	8	Pass
NVNT	g	2462	Ant1	-13.267	8	Pass
NVNT	n(HT20)	2412	Ant1	-13.4	8	Pass
NVNT	n(HT20)	2437	Ant1	-8.916	8	Pass
NVNT	n(HT20)	2462	Ant1	-13.668	8	Pass
NVNT	n(HT40)	2422	Ant1	-19.068	8	Pass
NVNT	n(HT40)	2437	Ant1	-10.489	8	Pass
NVNT	n(HT40)	2452	Ant1	-18.226	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



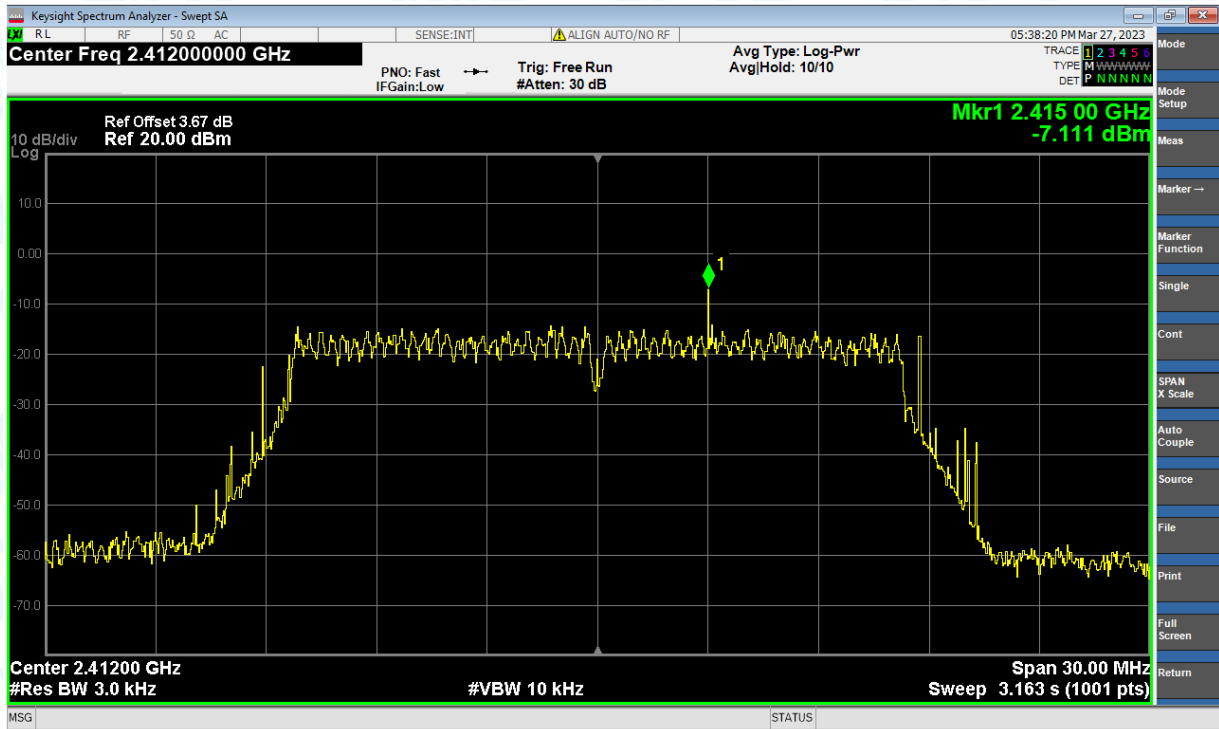
PSD NVNT b 2437MHz Ant1



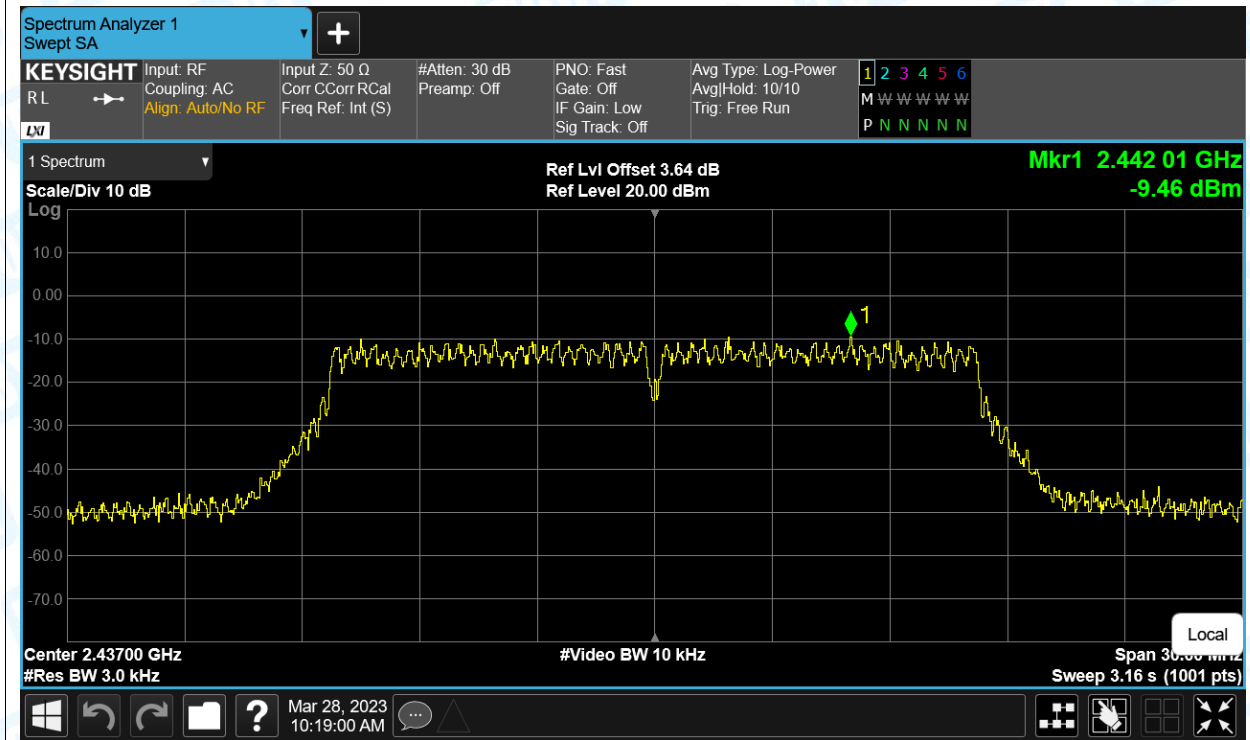
PSD NVNT b 2462MHz Ant1



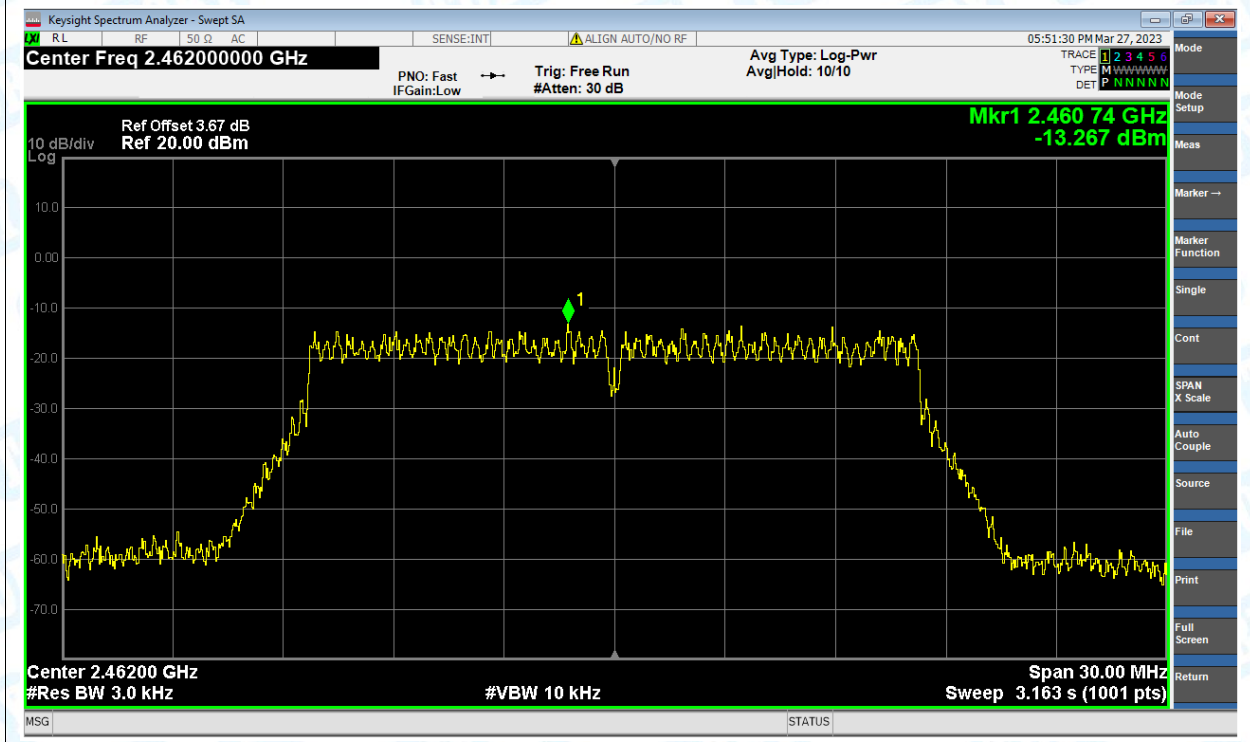
PSD NVNT g 2412MHz Ant1



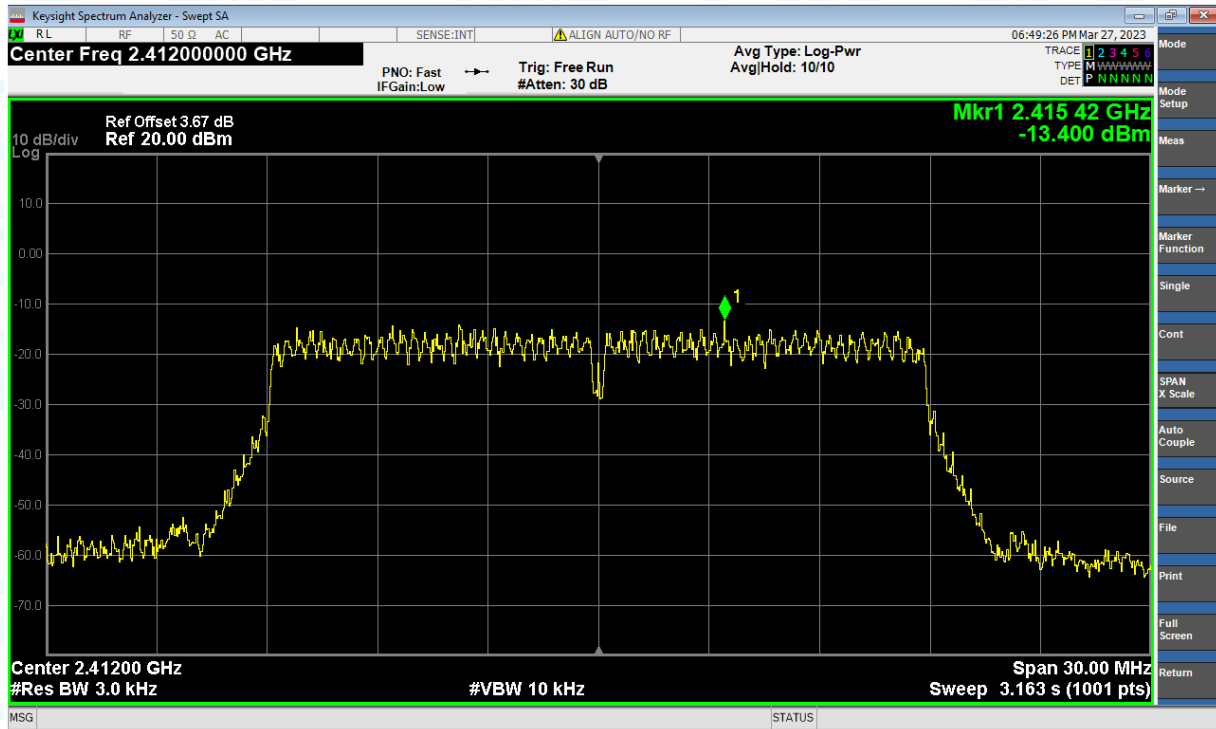
PSD NVNT g 2437MHz Ant1



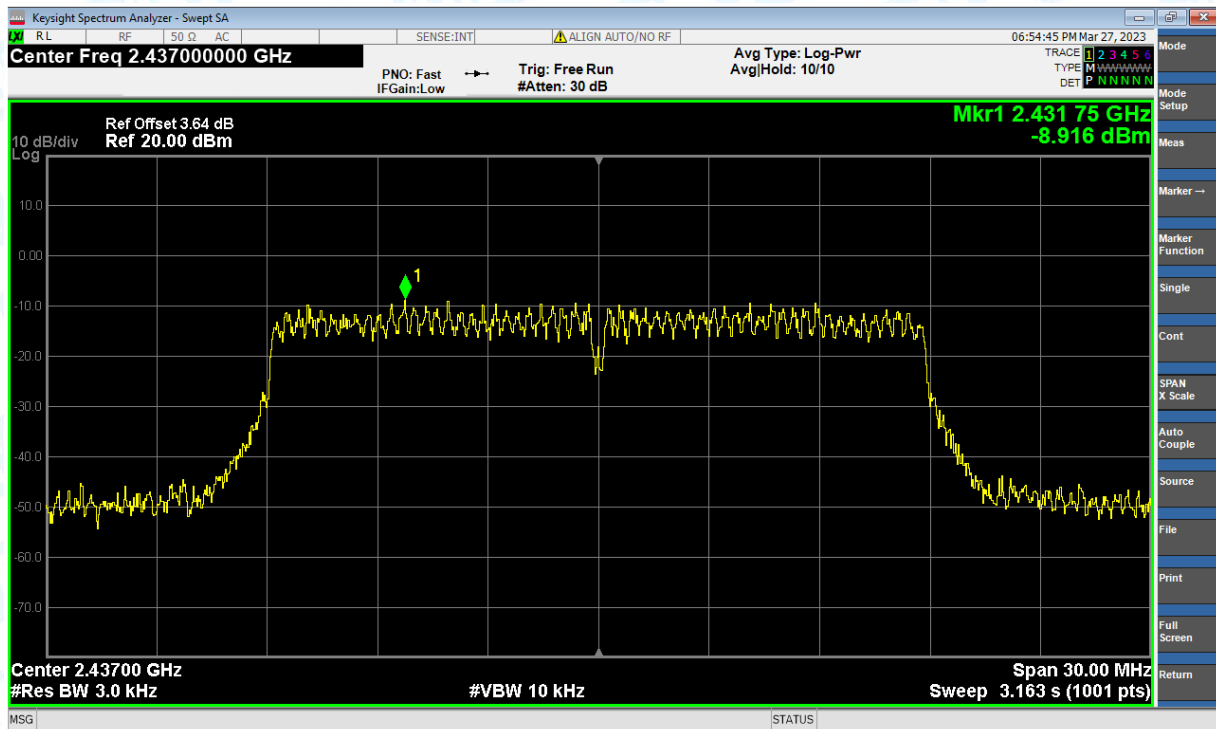
PSD NVNT g 2462MHz Ant1



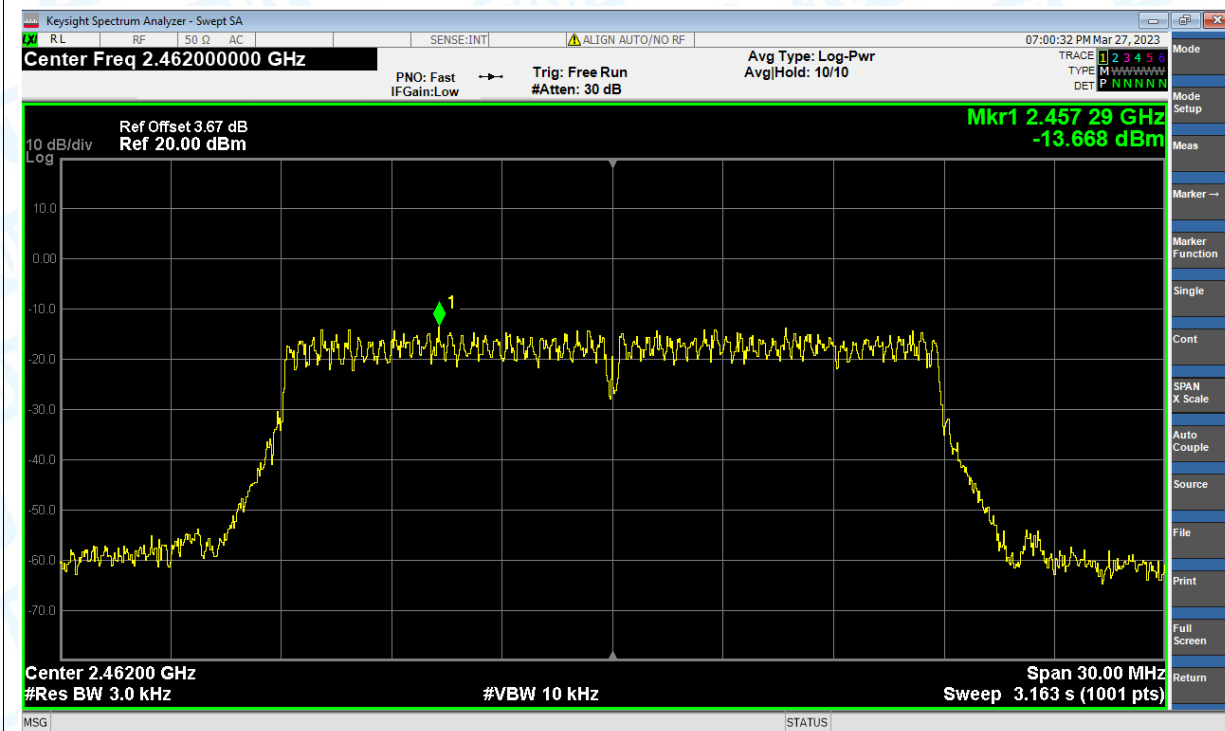
PSD NVNT n(HT20) 2412MHz Ant1



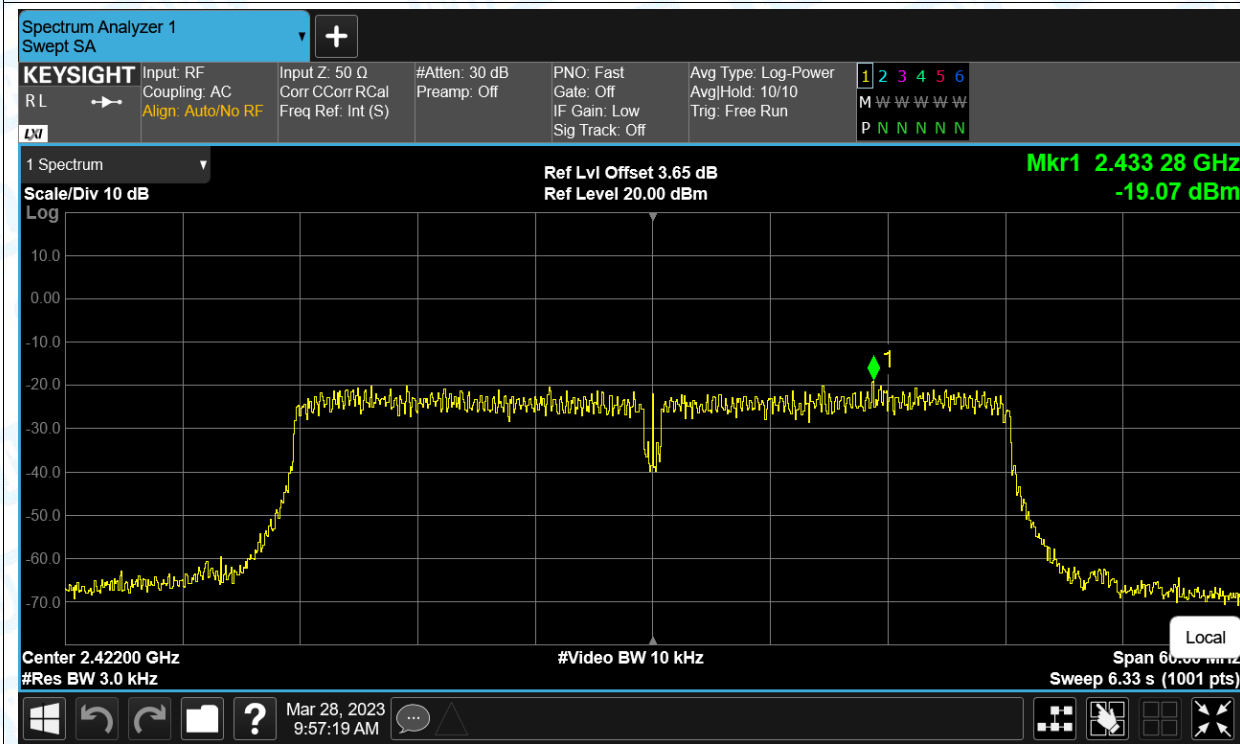
PSD NVNT n(HT20) 2437MHz Ant1



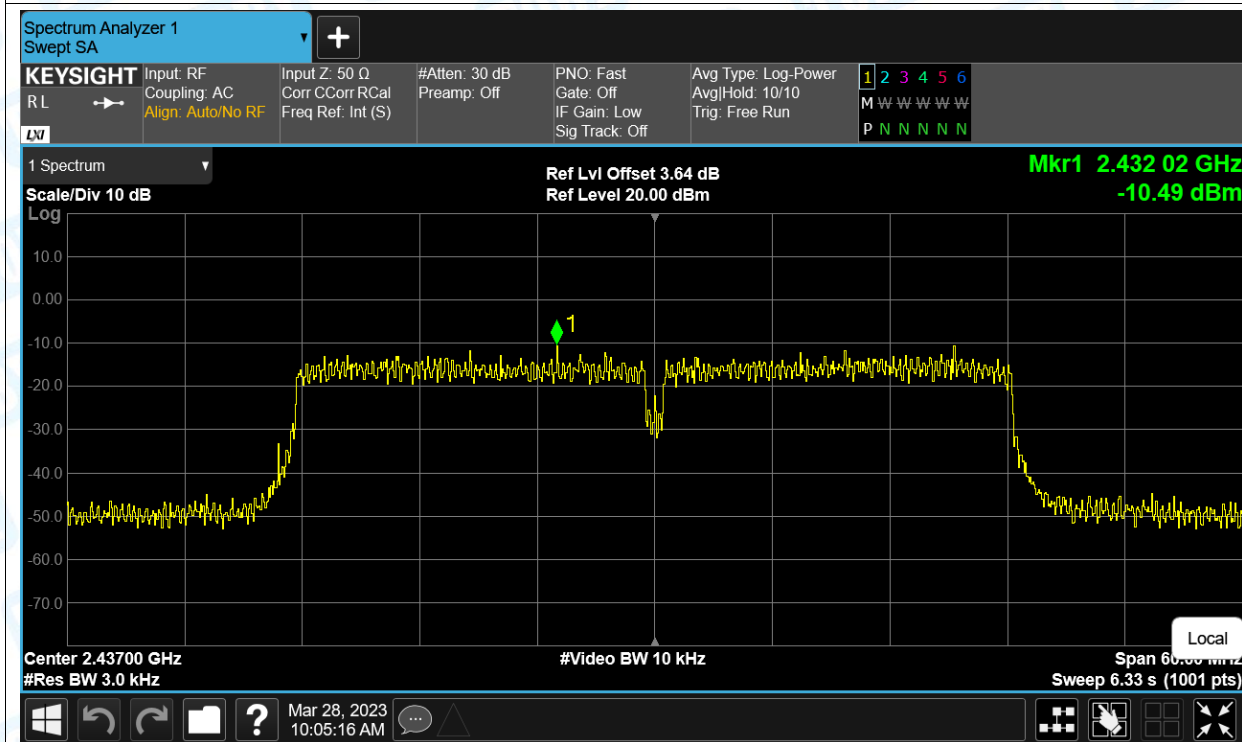
PSD NVNT n(HT20) 2462MHz Ant1



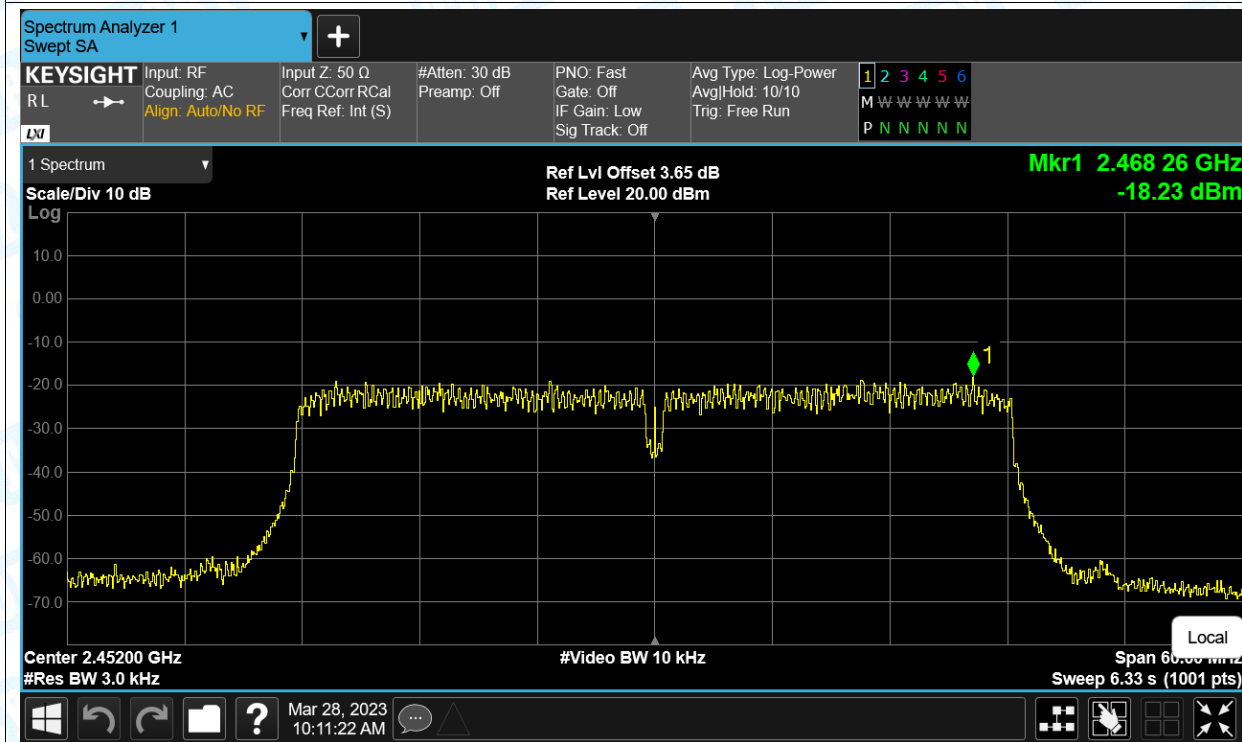
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

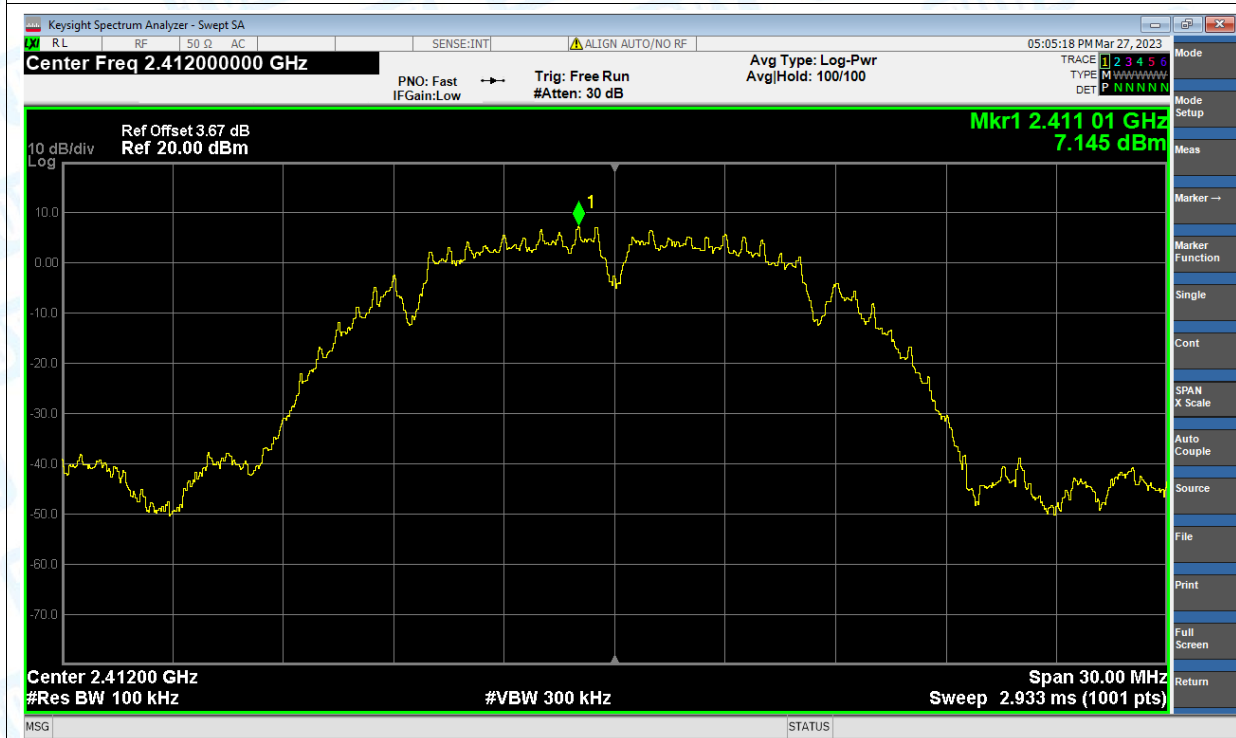


6. Band Edge

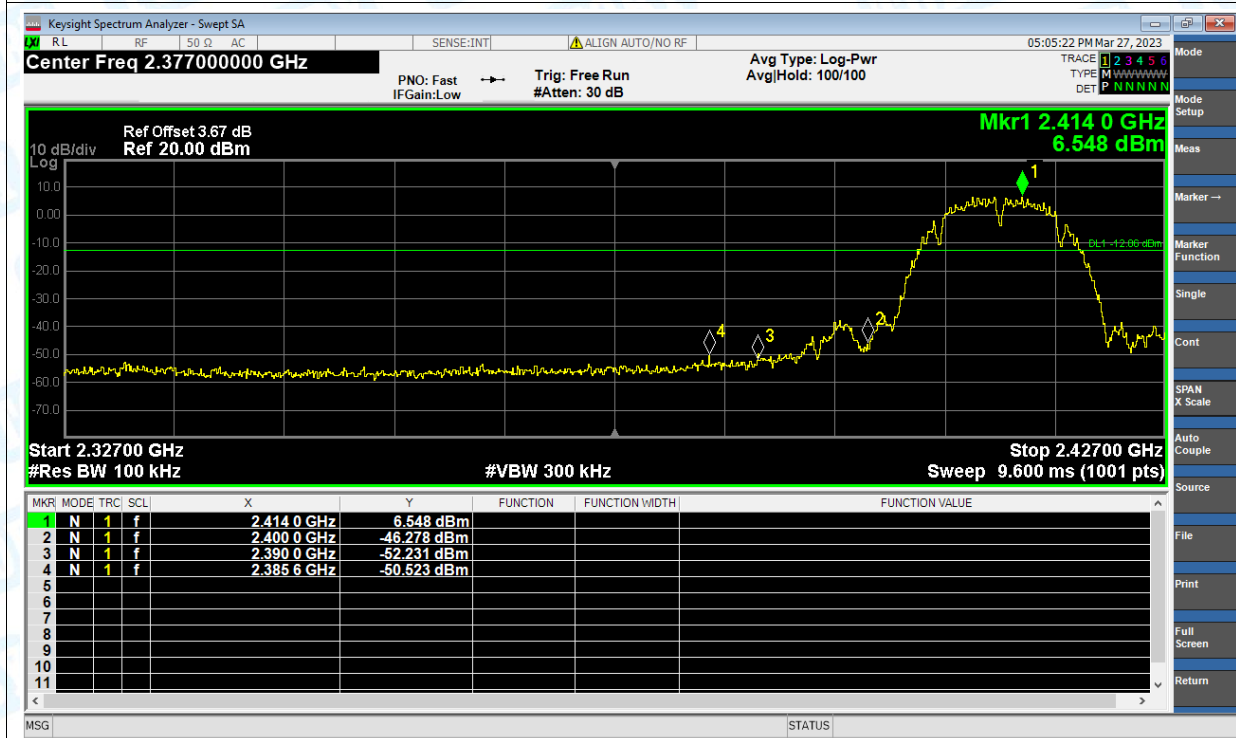
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-57.67	-20	Pass
NVNT	b	2462	Ant1	-55.45	-20	Pass
NVNT	g	2412	Ant1	-45.61	-20	Pass
NVNT	g	2462	Ant1	-51.19	-20	Pass
NVNT	n(HT20)	2412	Ant1	-43.95	-20	Pass
NVNT	n(HT20)	2462	Ant1	-48.25	-20	Pass
NVNT	n(HT40)	2422	Ant1	-40.04	-20	Pass
NVNT	n(HT40)	2452	Ant1	-47.92	-20	Pass

Test Graphs

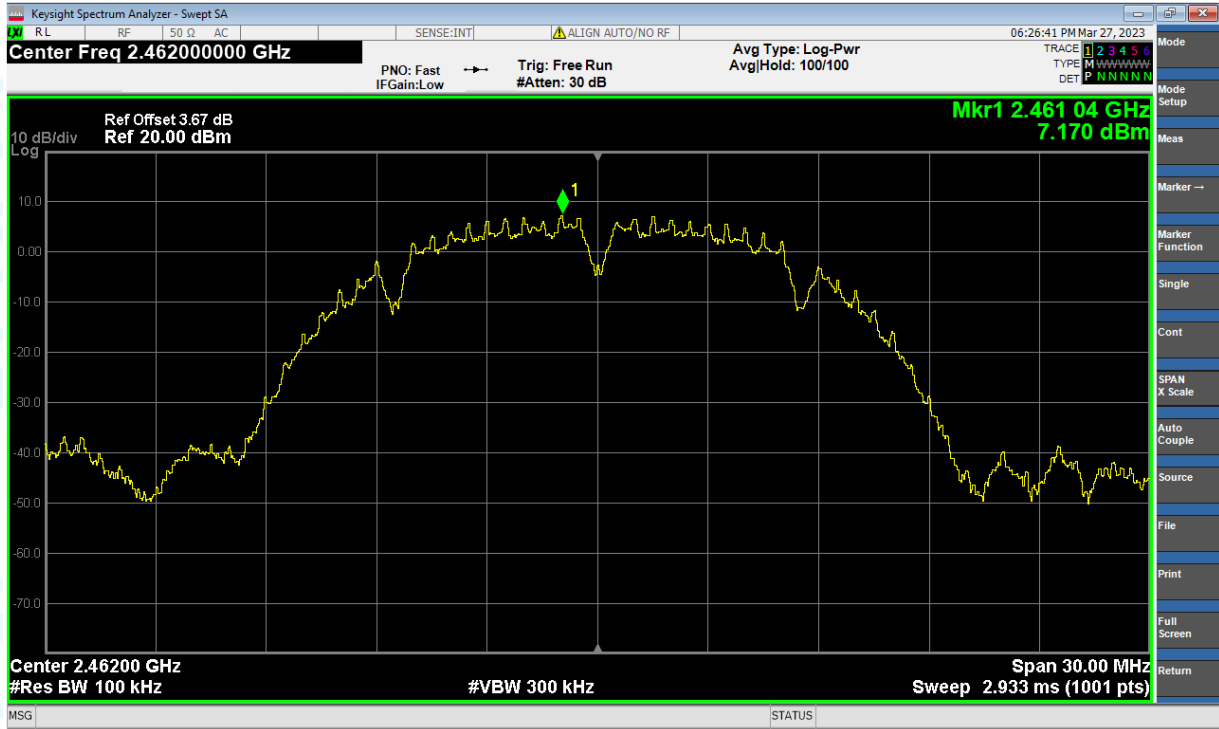
Band Edge NVNT b 2412MHz Ant1 Ref



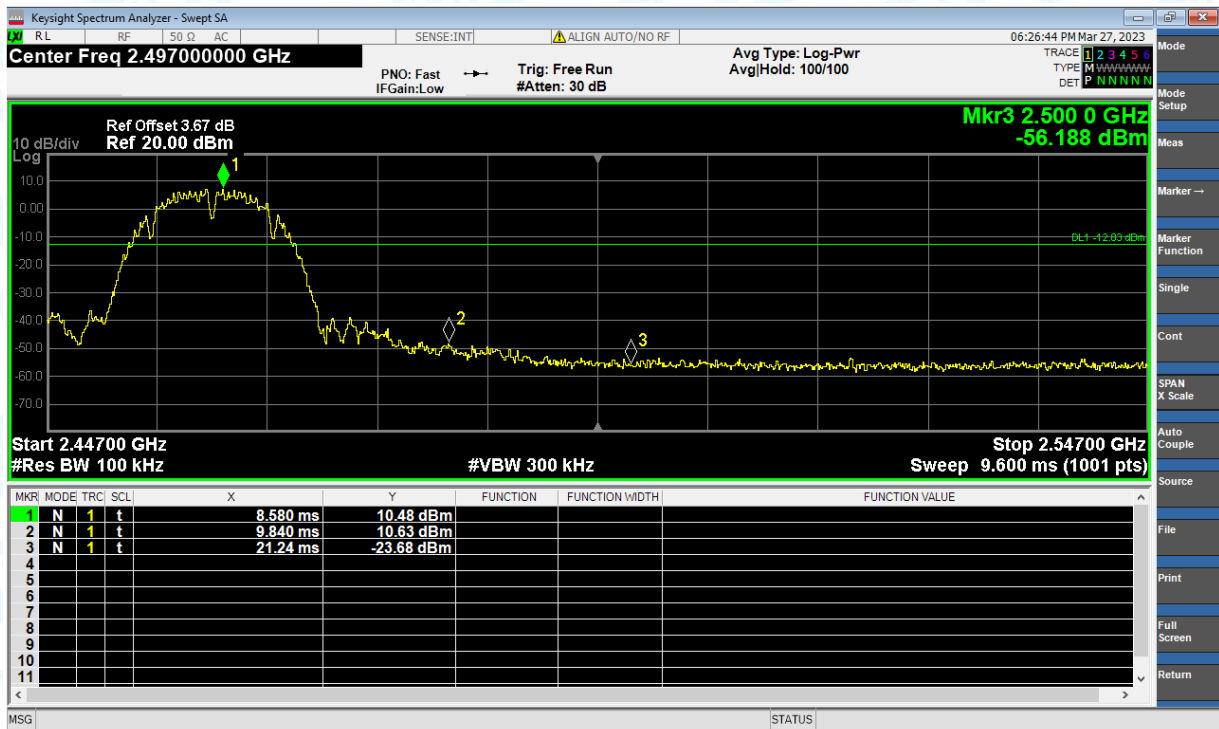
Band Edge NVNT b 2412MHz Ant1 Emission



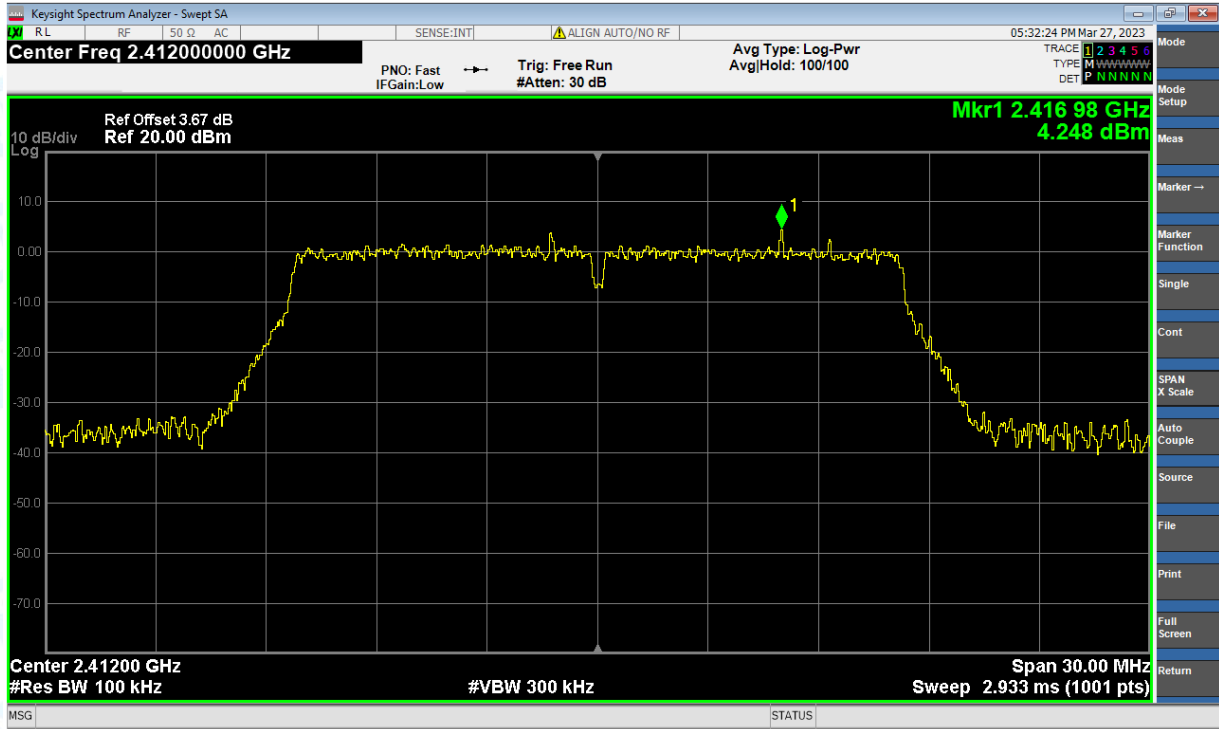
Band Edge NVNT b 2462MHz Ant1 Ref



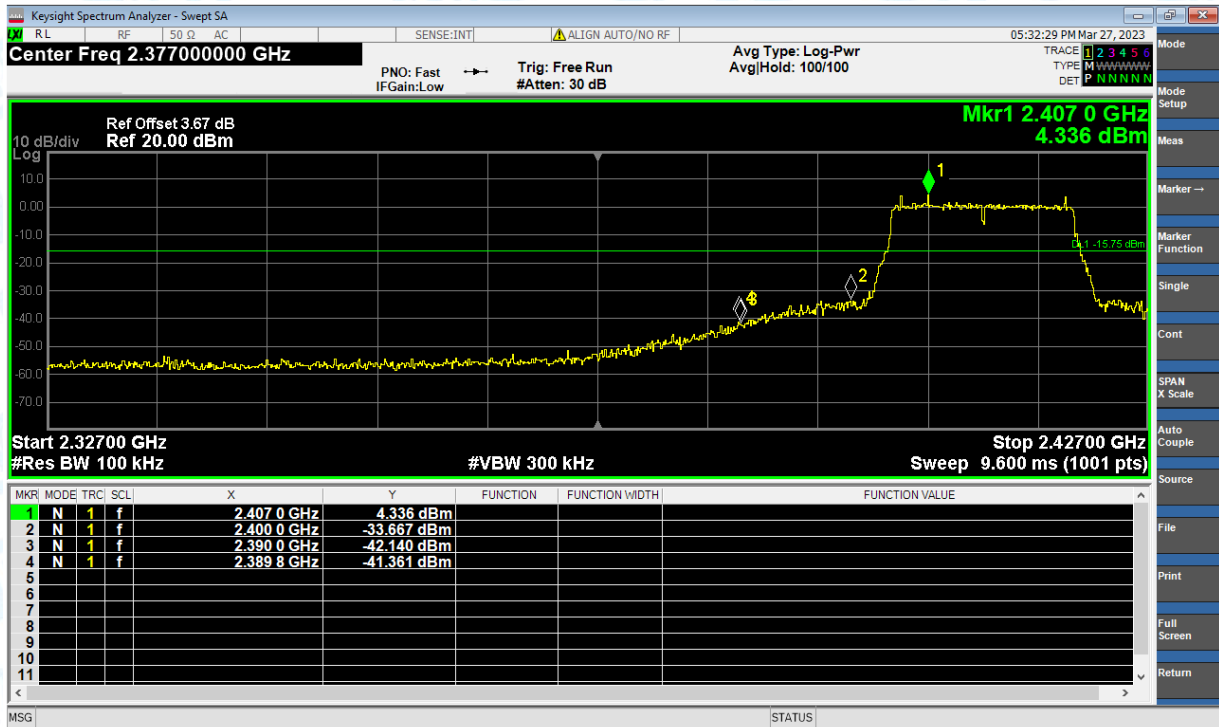
Band Edge NVNT b 2462MHz Ant1 Emission



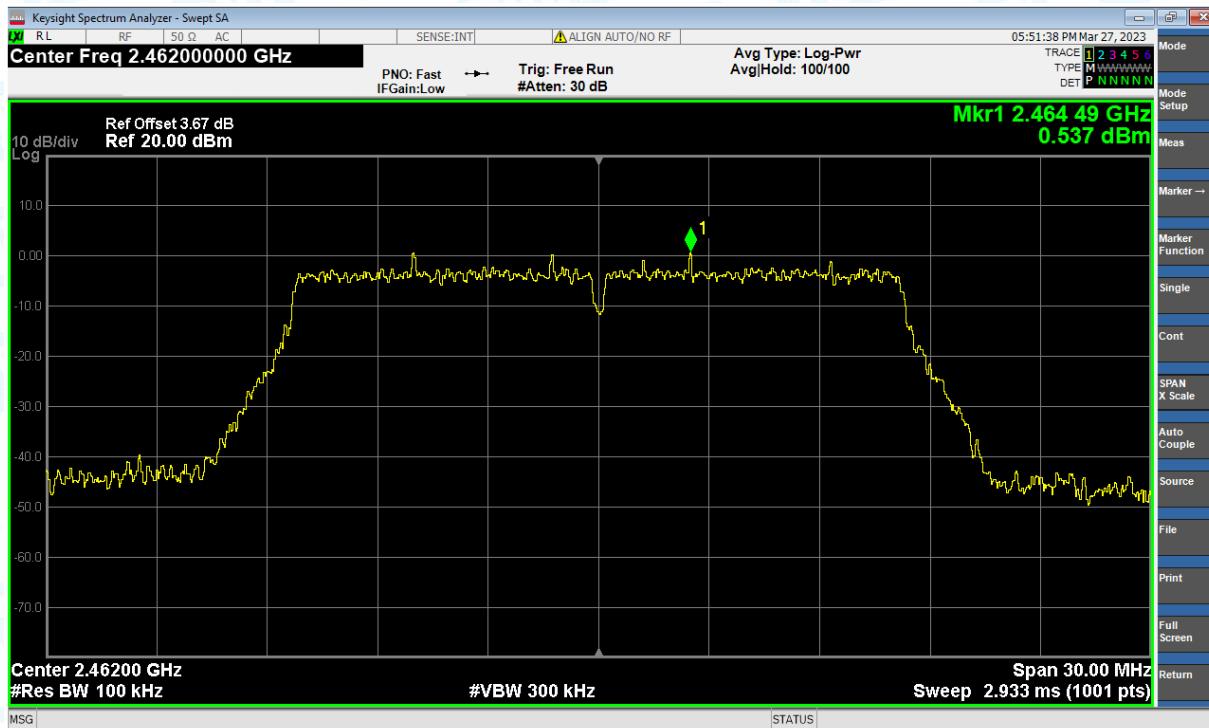
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



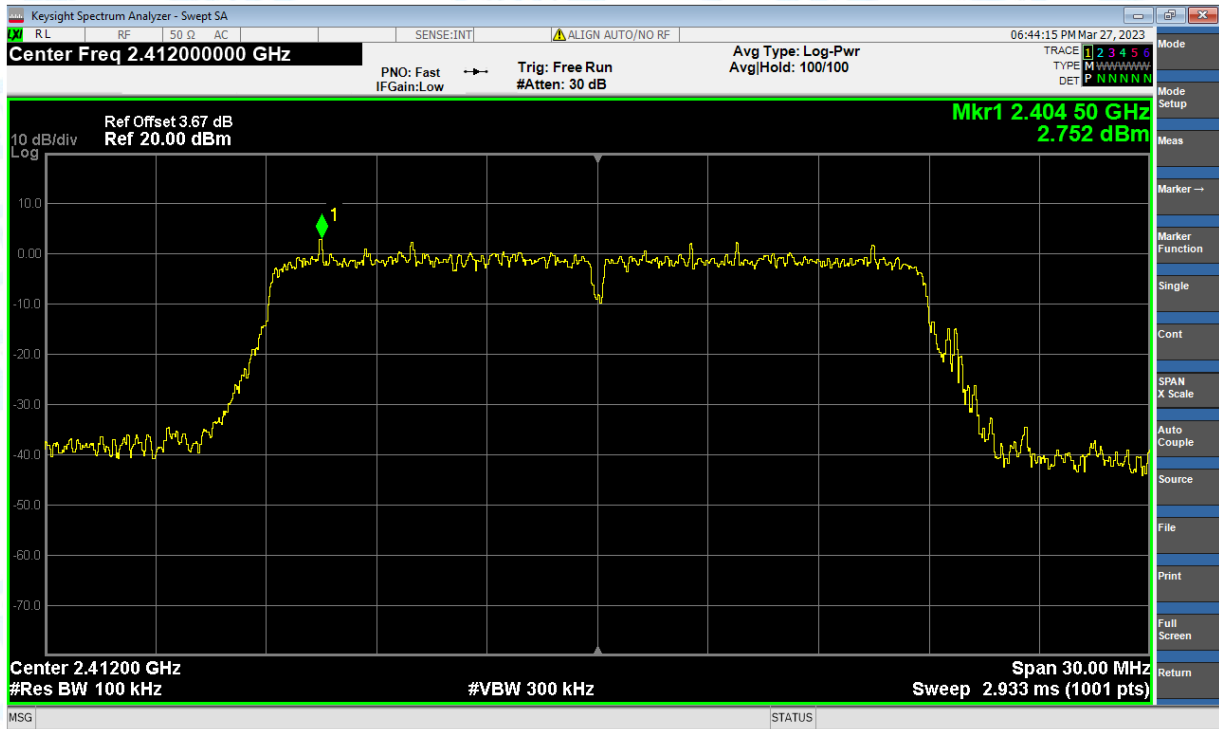
Band Edge NVNT g 2462MHz Ant1 Ref



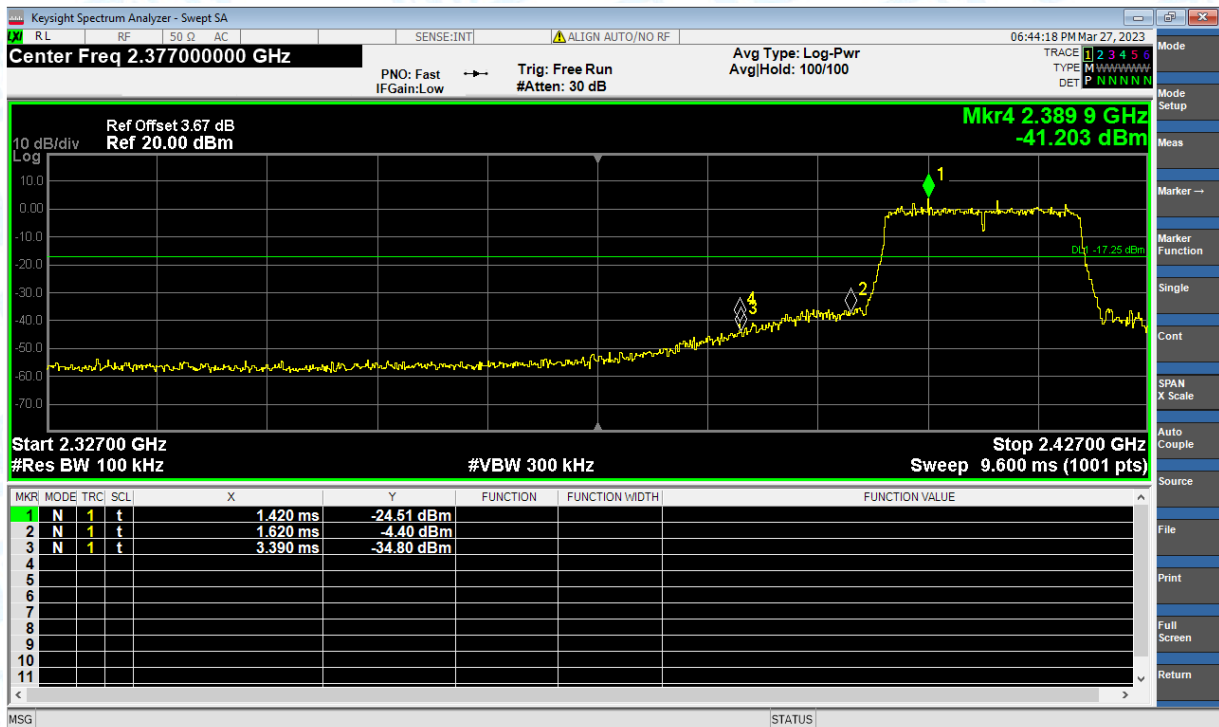
Band Edge NVNT g 2462MHz Ant1 Emission



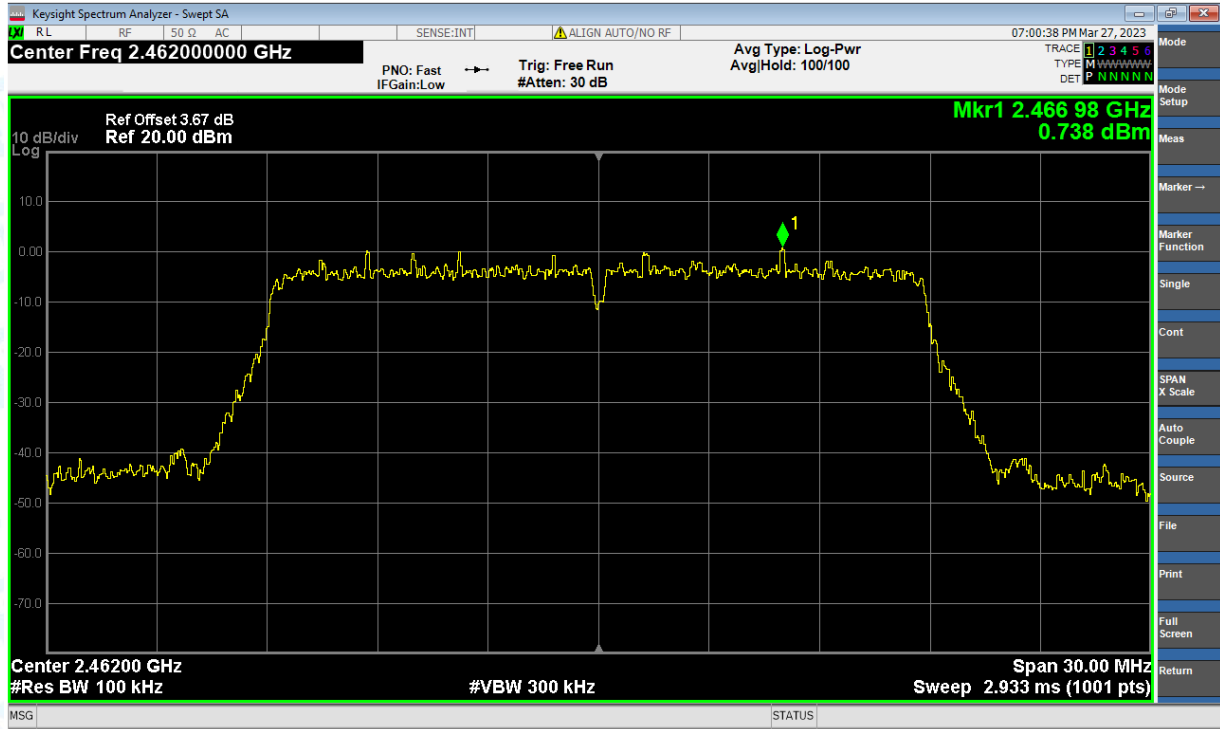
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



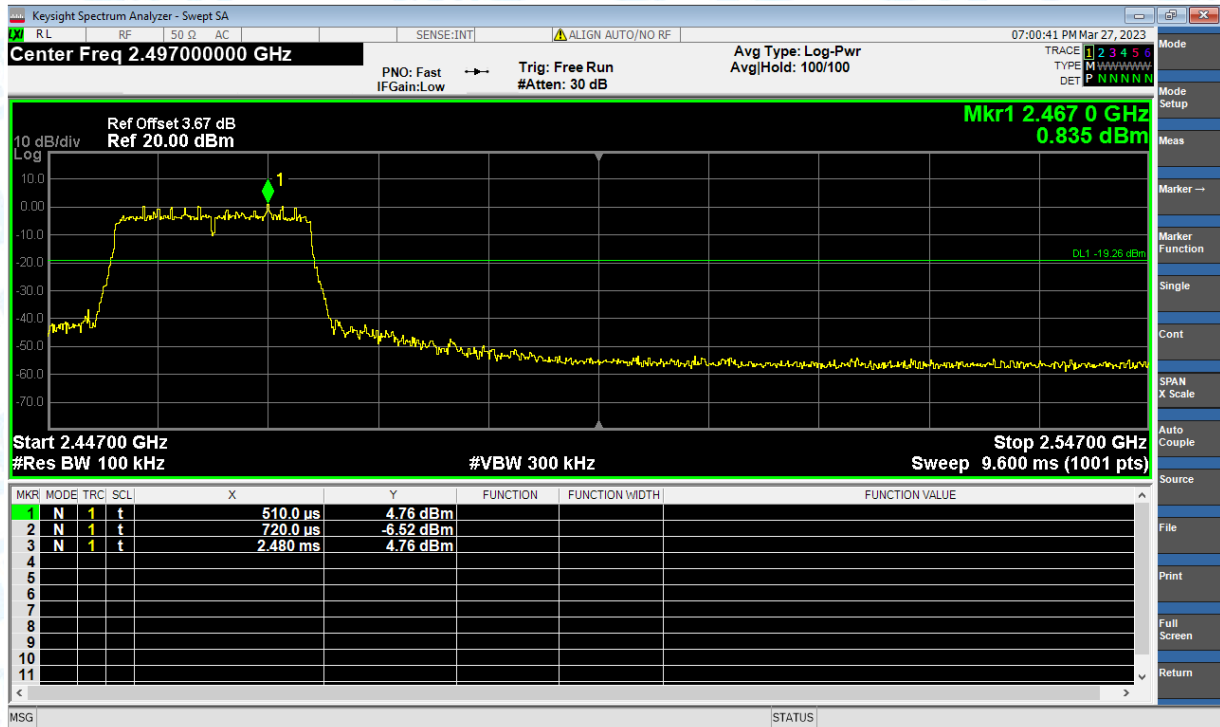
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



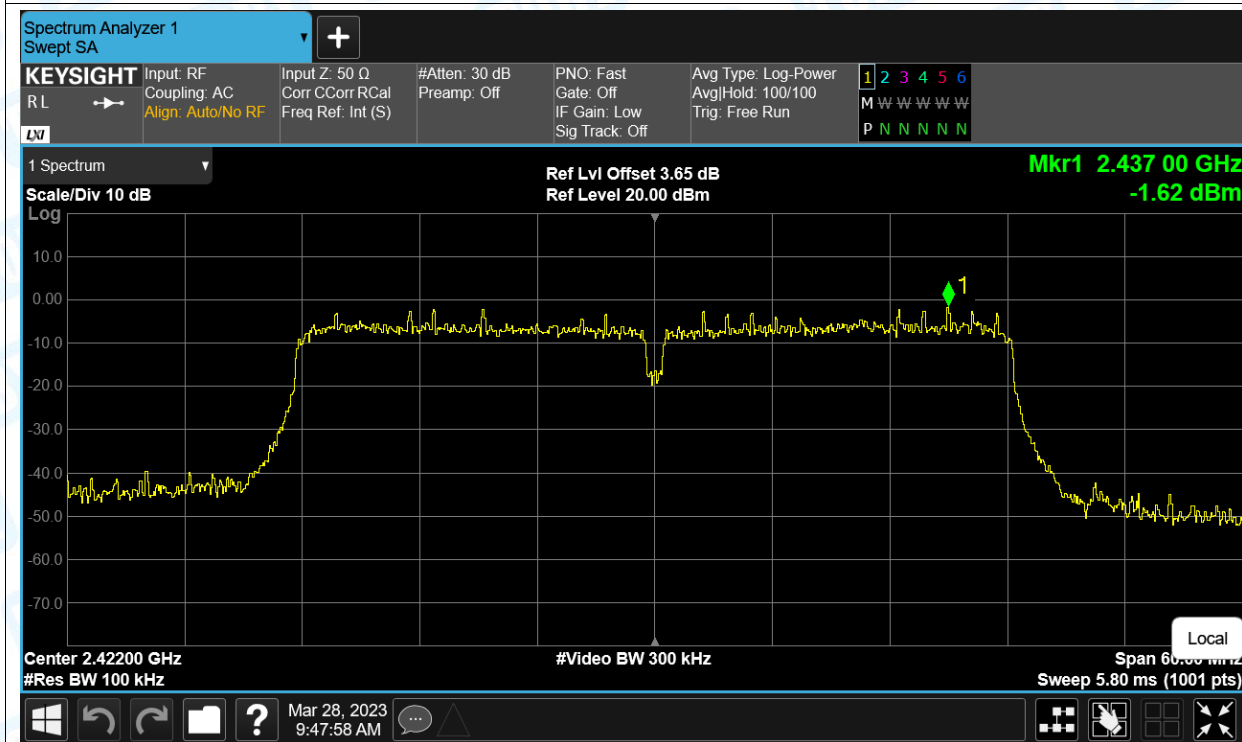
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



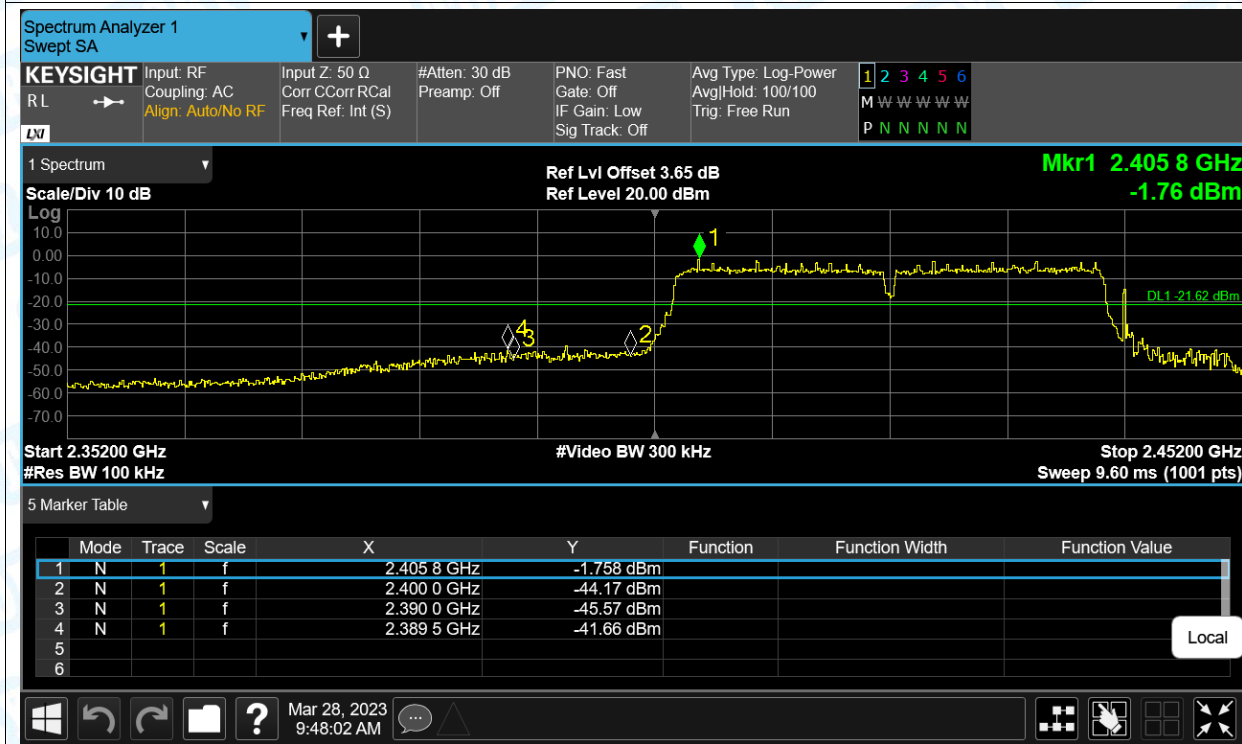
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



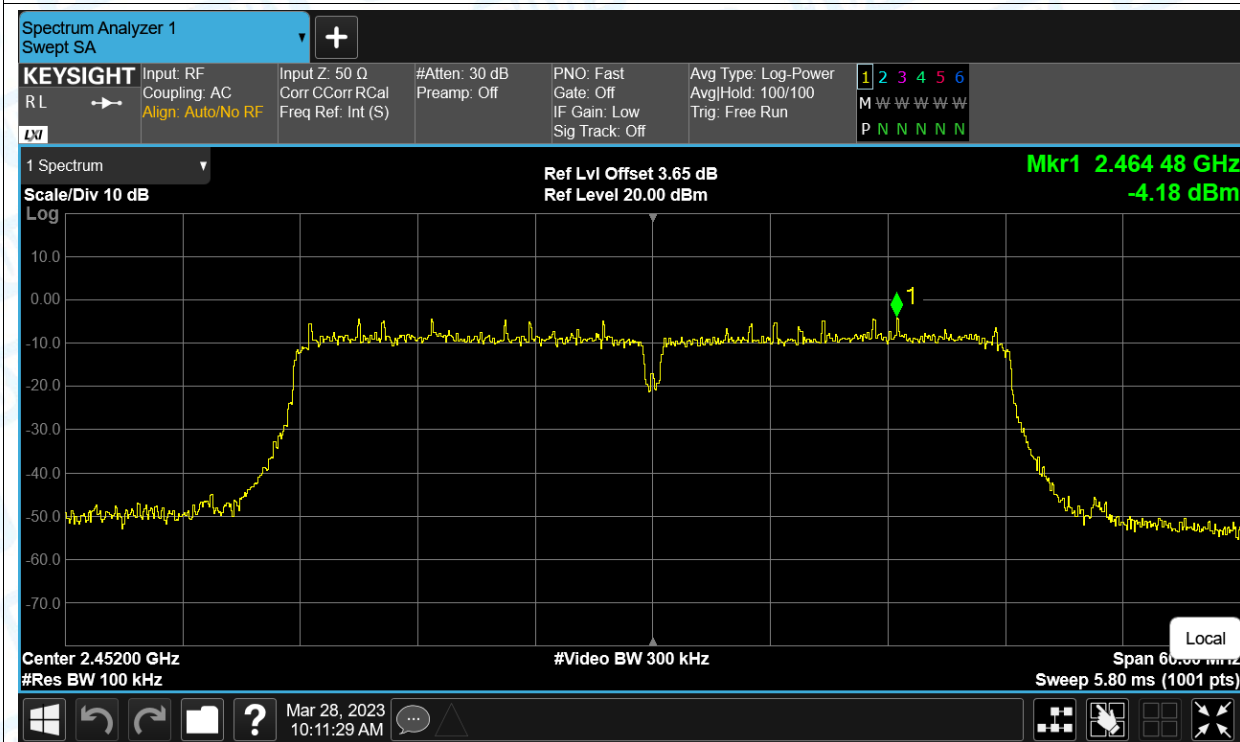
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



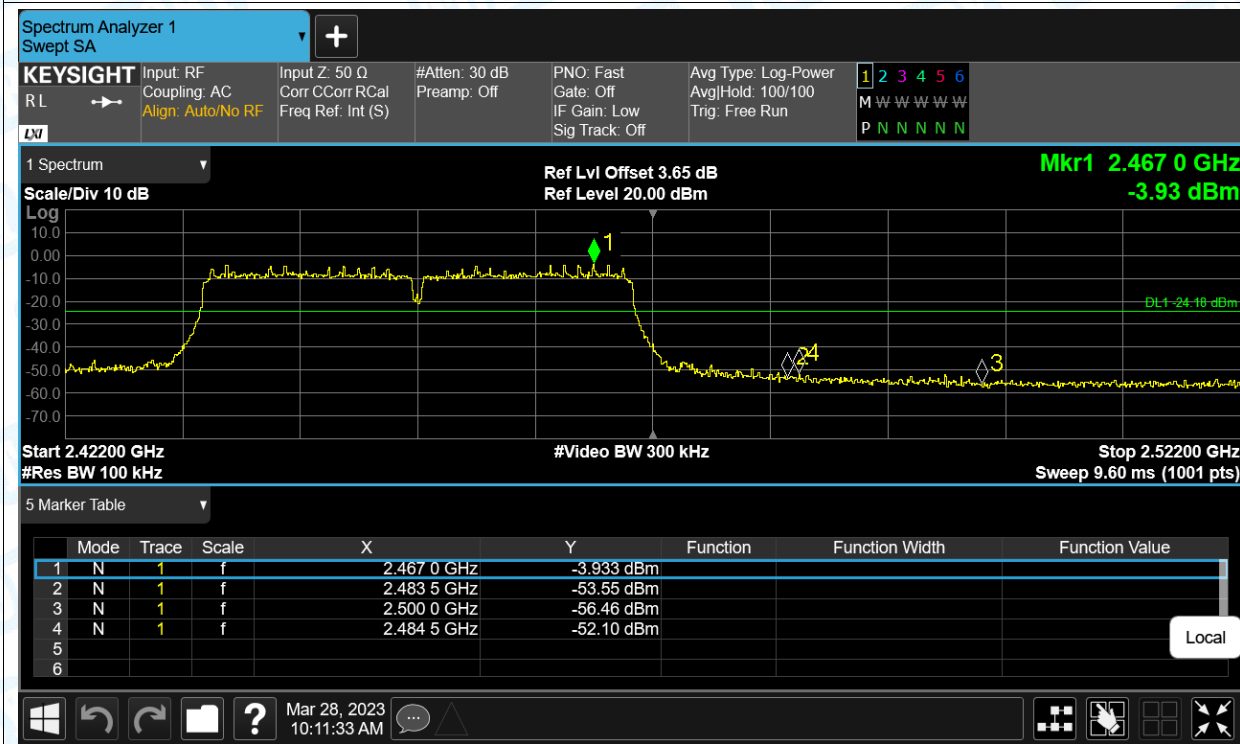
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

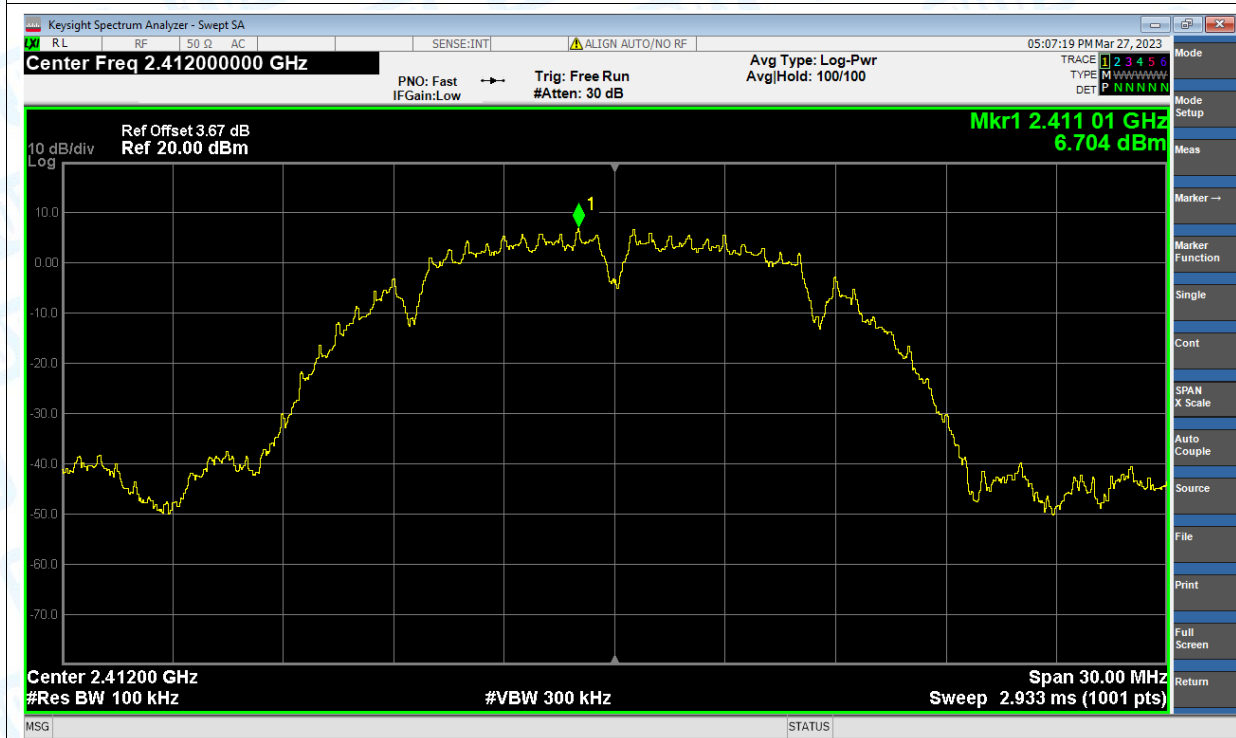


7. Conducted RF Spurious Emission

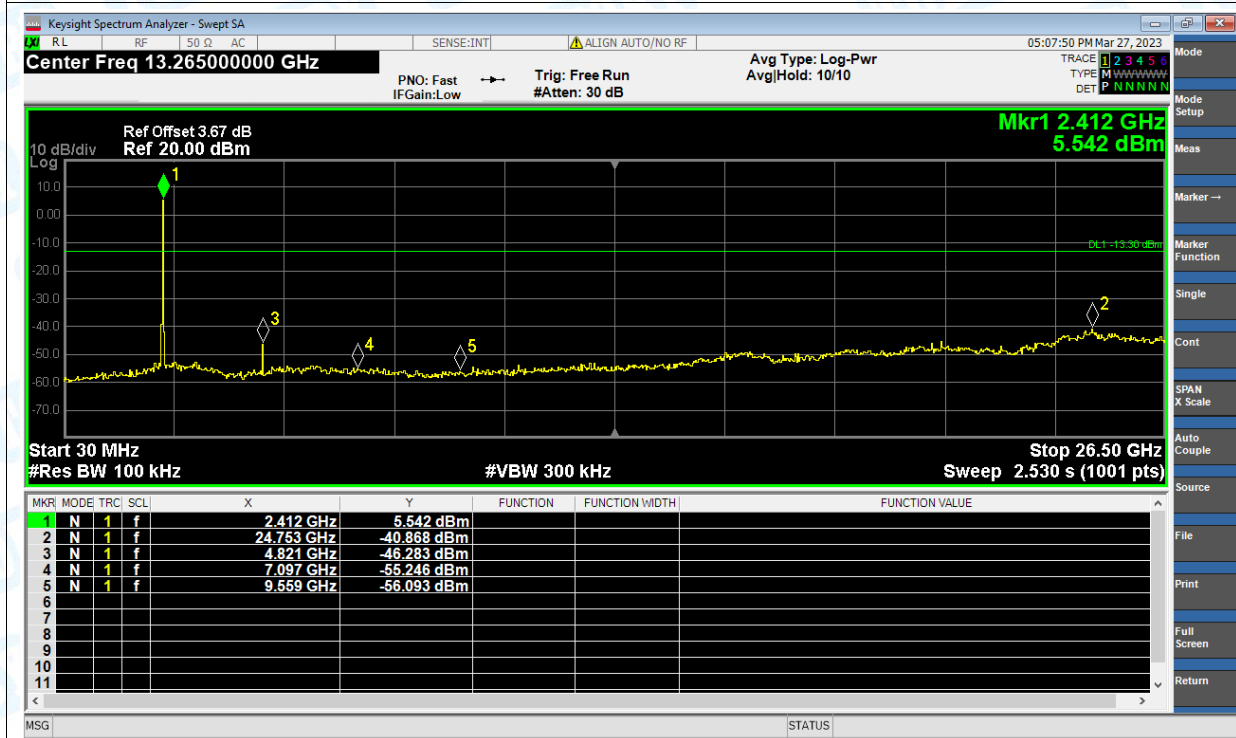
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.57	-20	Pass
NVNT	b	2437	Ant1	-46.95	-20	Pass
NVNT	b	2462	Ant1	-47.03	-20	Pass
NVNT	g	2412	Ant1	-45.04	-20	Pass
NVNT	g	2437	Ant1	-45.54	-20	Pass
NVNT	g	2462	Ant1	-41.63	-20	Pass
NVNT	n(HT20)	2412	Ant1	-43.54	-20	Pass
NVNT	n(HT20)	2437	Ant1	-46.48	-20	Pass
NVNT	n(HT20)	2462	Ant1	-41.91	-20	Pass
NVNT	n(HT40)	2422	Ant1	-40.09	-20	Pass
NVNT	n(HT40)	2437	Ant1	-43.27	-20	Pass
NVNT	n(HT40)	2452	Ant1	-36.44	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



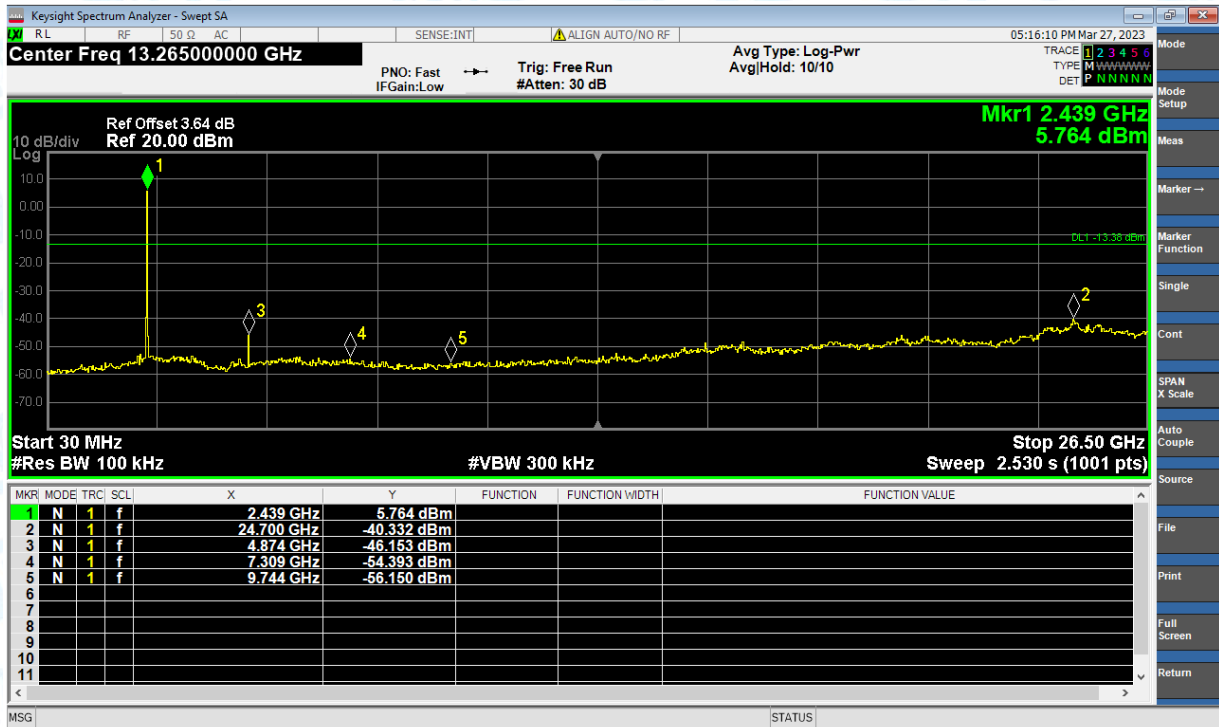
Tx. Spurious NVNT b 2412MHz Ant1 Emission



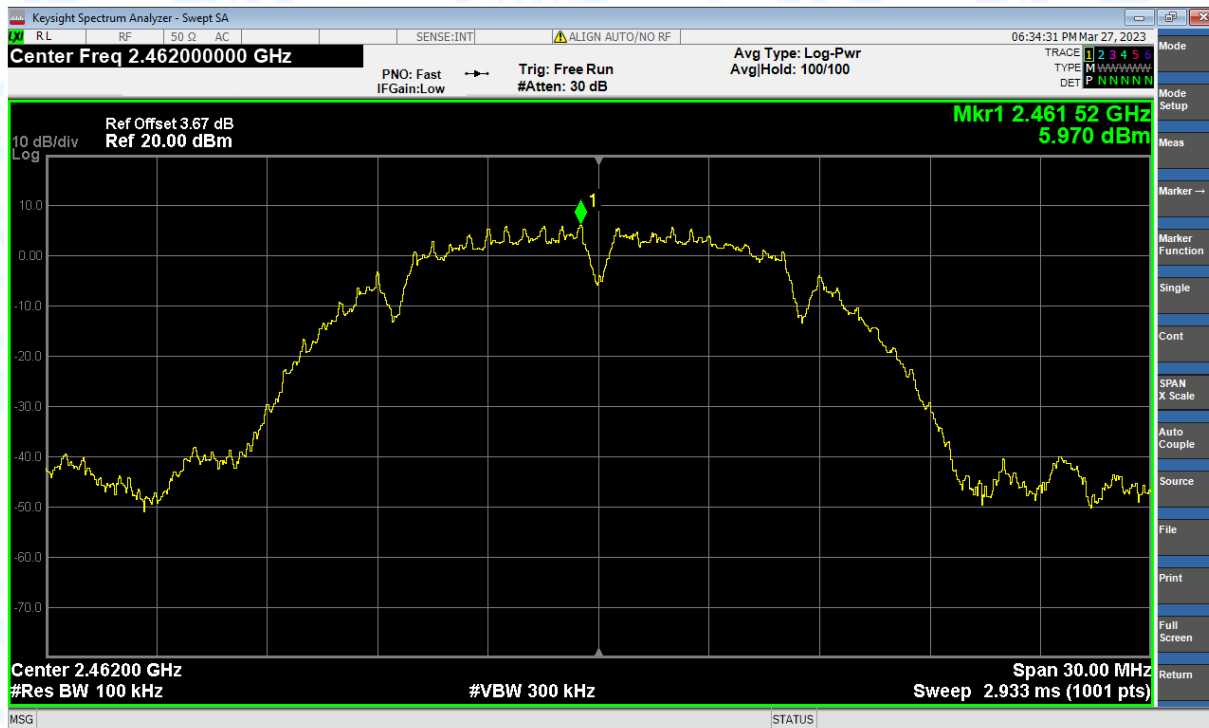
Tx. Spurious NVNT b 2437MHz Ant1 Ref



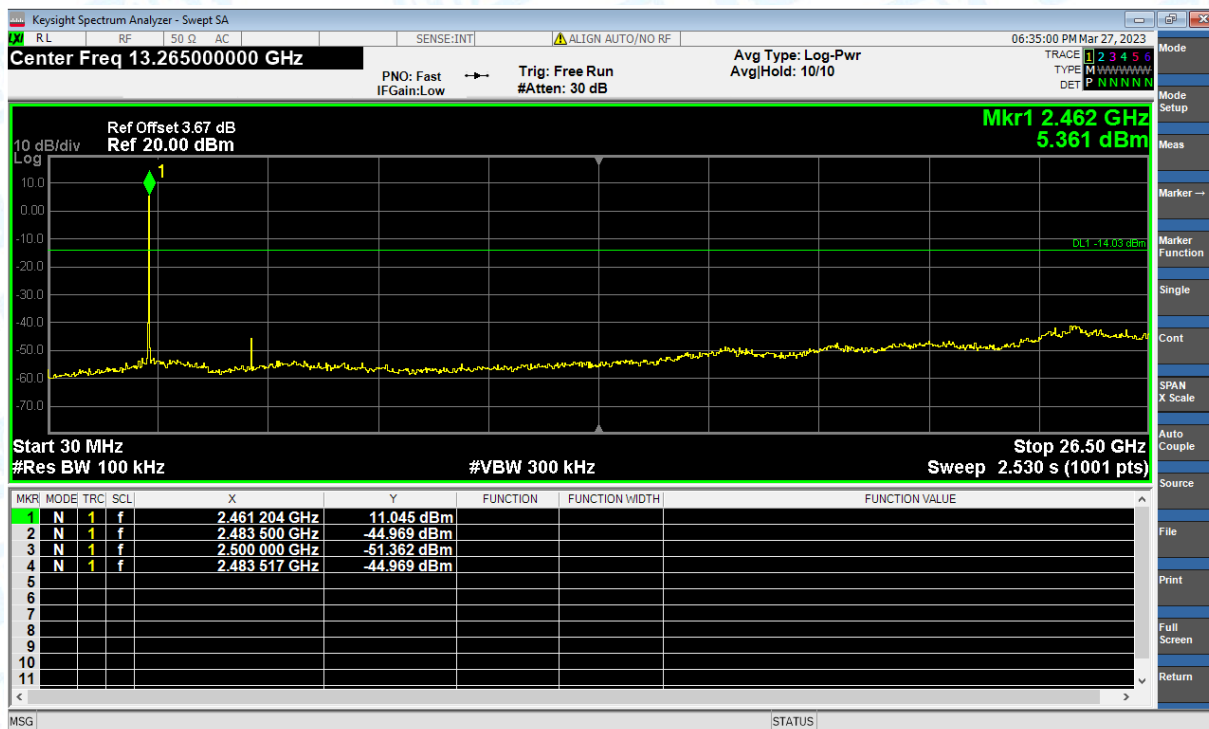
Tx. Spurious NVNT b 2437MHz Ant1 Emission



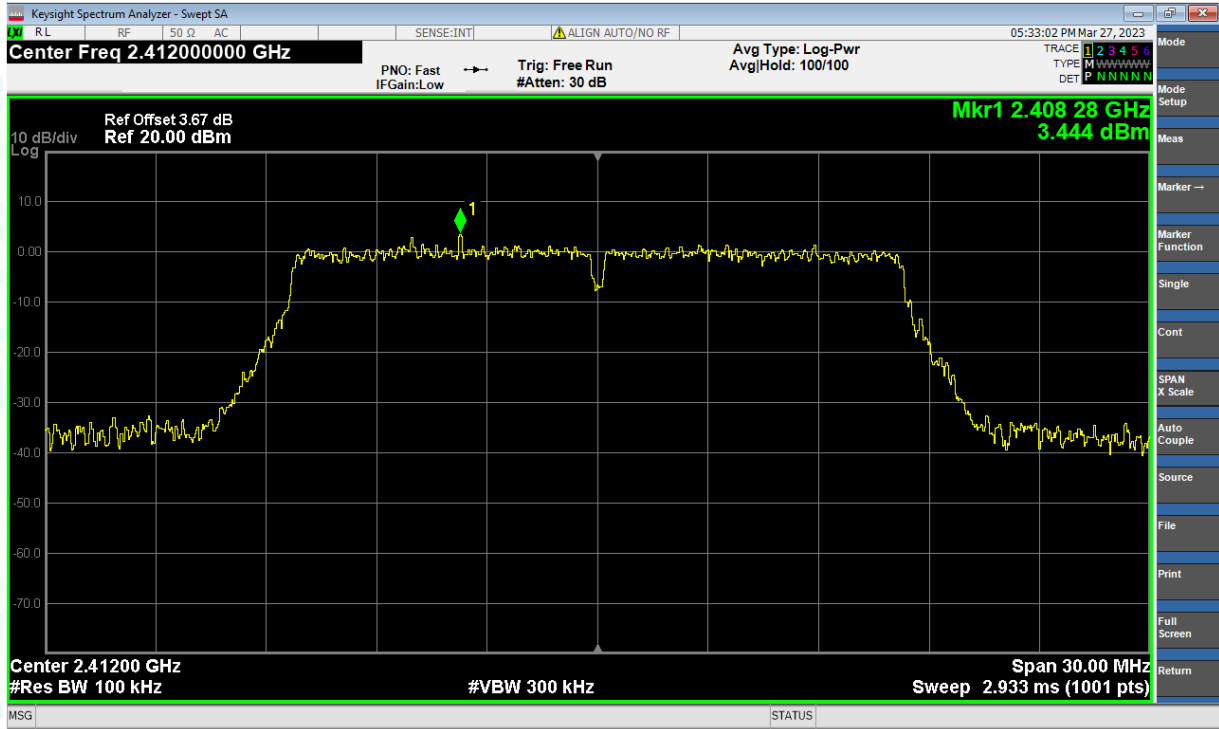
Tx. Spurious NVNT b 2462MHz Ant1 Ref



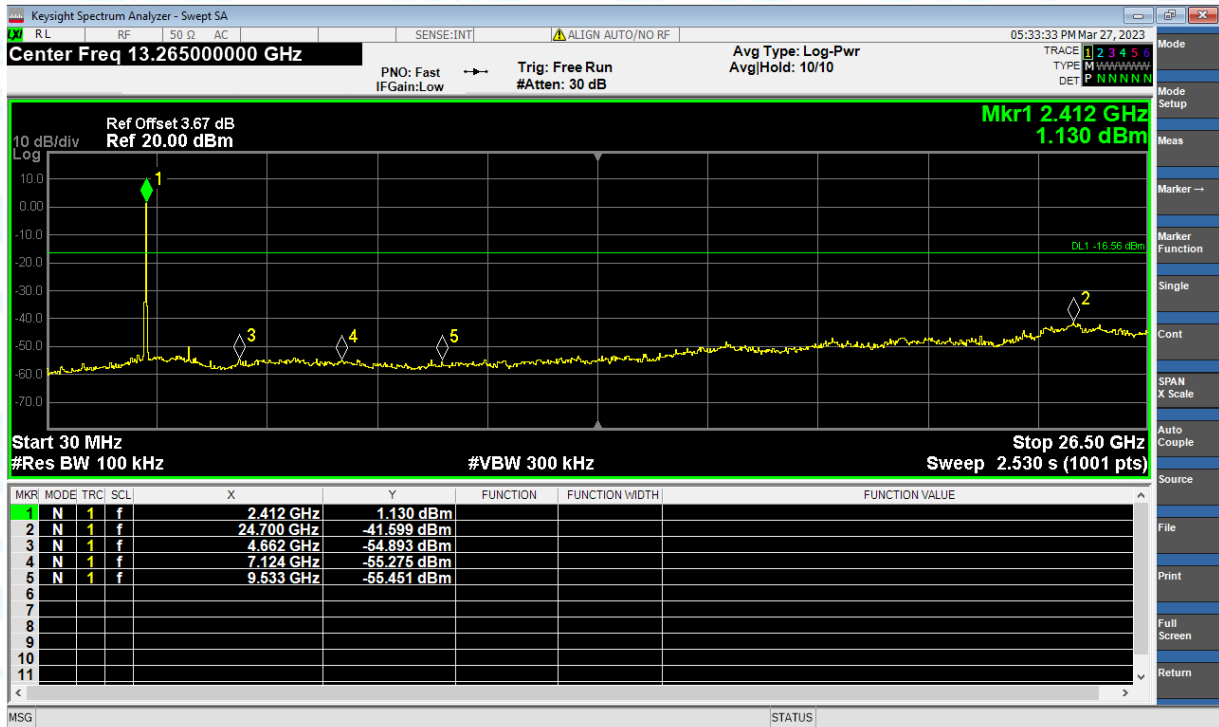
Tx. Spurious NVNT b 2462MHz Ant1 Emission



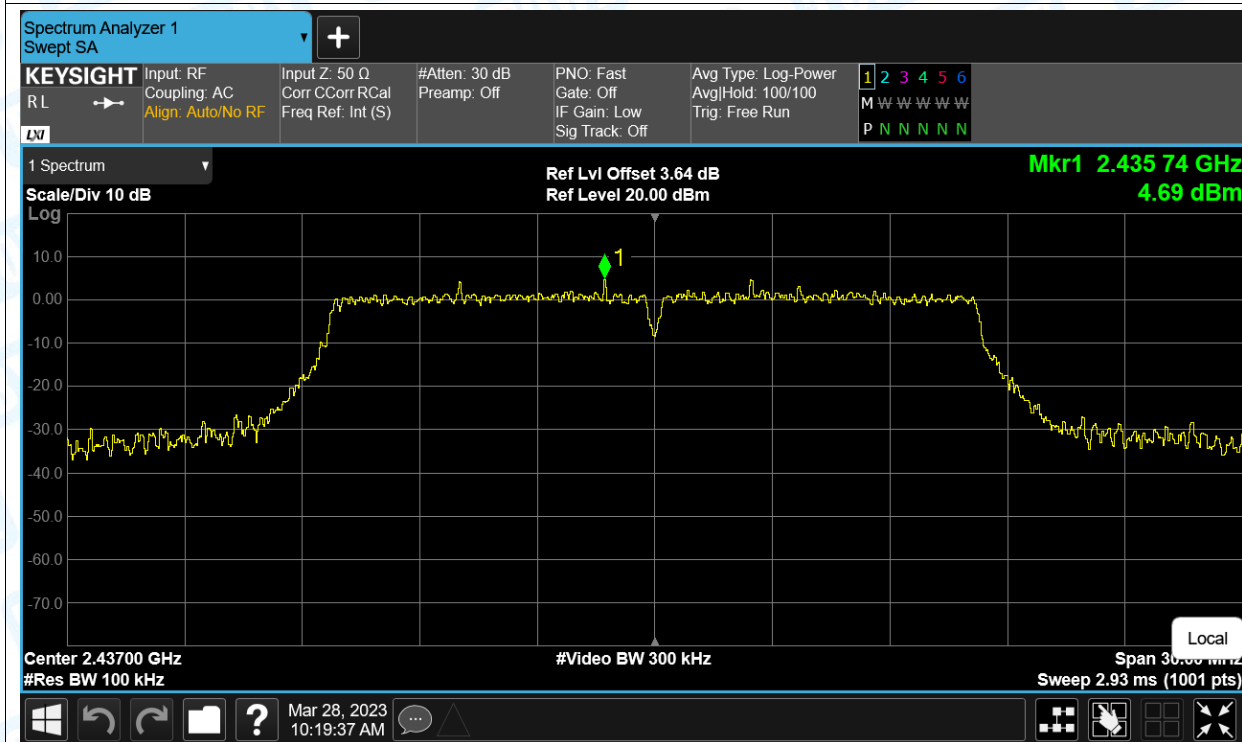
Tx. Spurious NVNT g 2412MHz Ant1 Ref



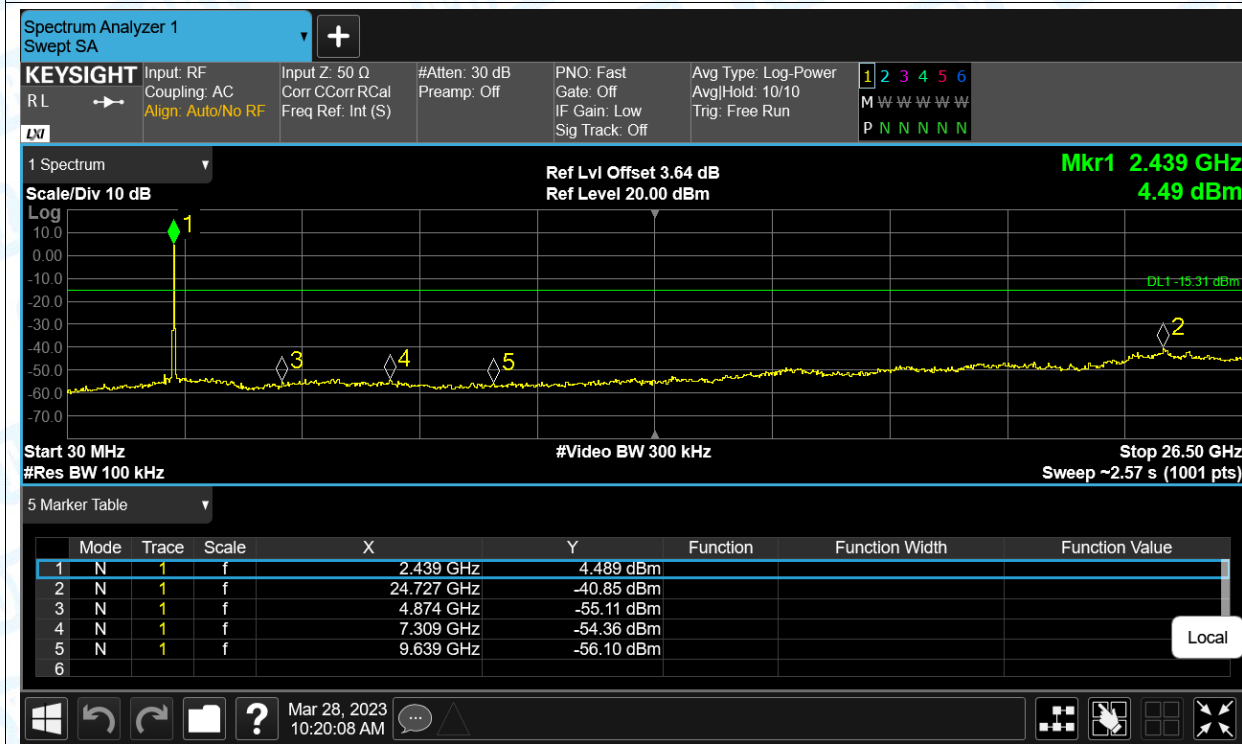
Tx. Spurious NVNT g 2412MHz Ant1 Emission



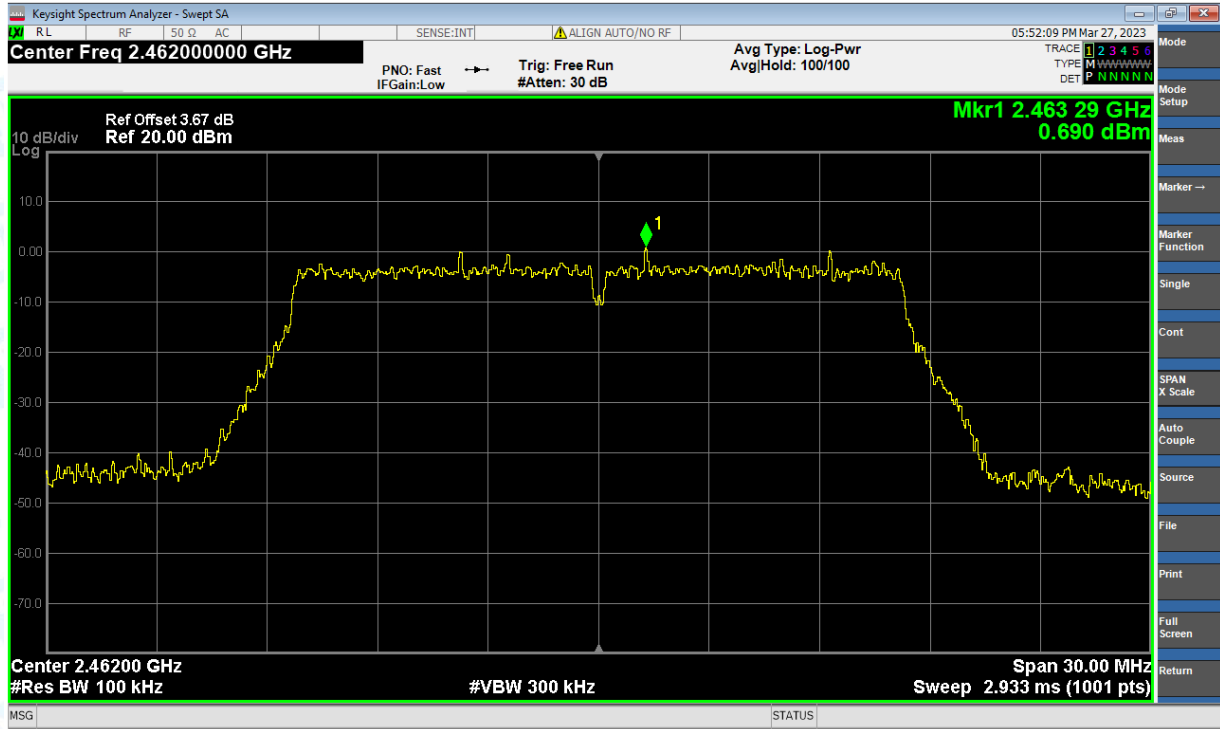
Tx. Spurious NVNT g 2437MHz Ant1 Ref



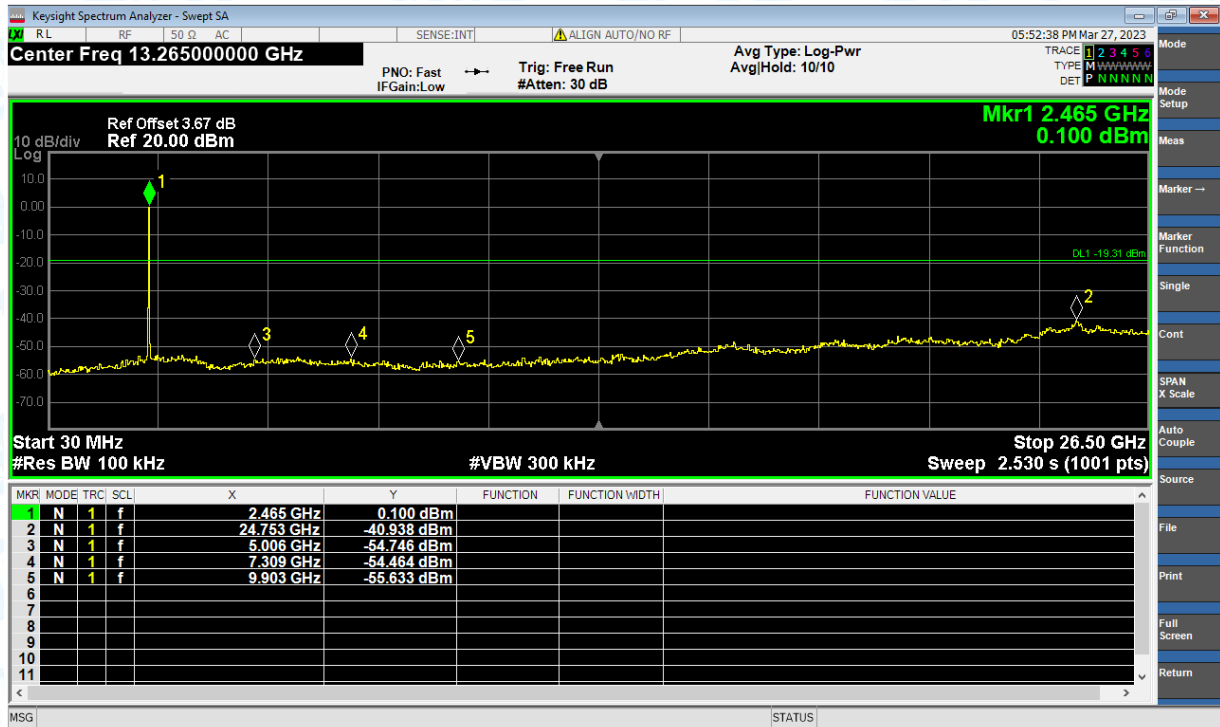
Tx. Spurious NVNT g 2437MHz Ant1 Emission



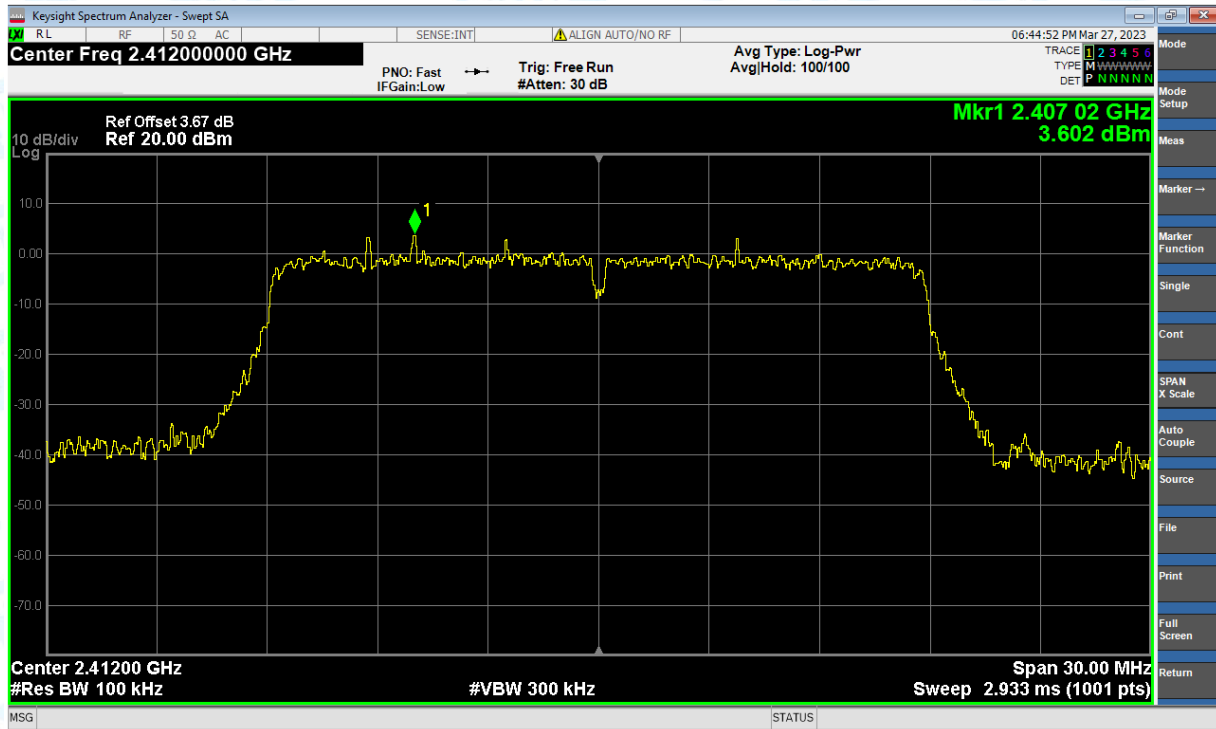
Tx. Spurious NVNT g 2462MHz Ant1 Ref



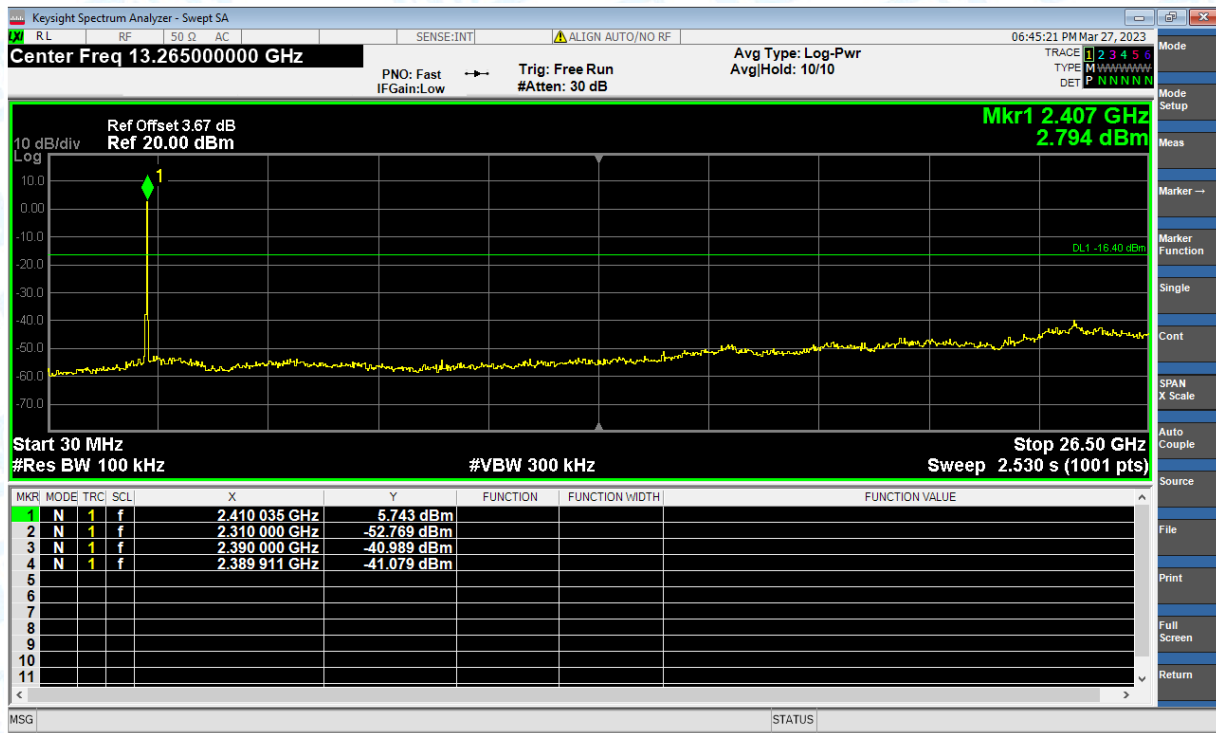
Tx. Spurious NVNT g 2462MHz Ant1 Emission

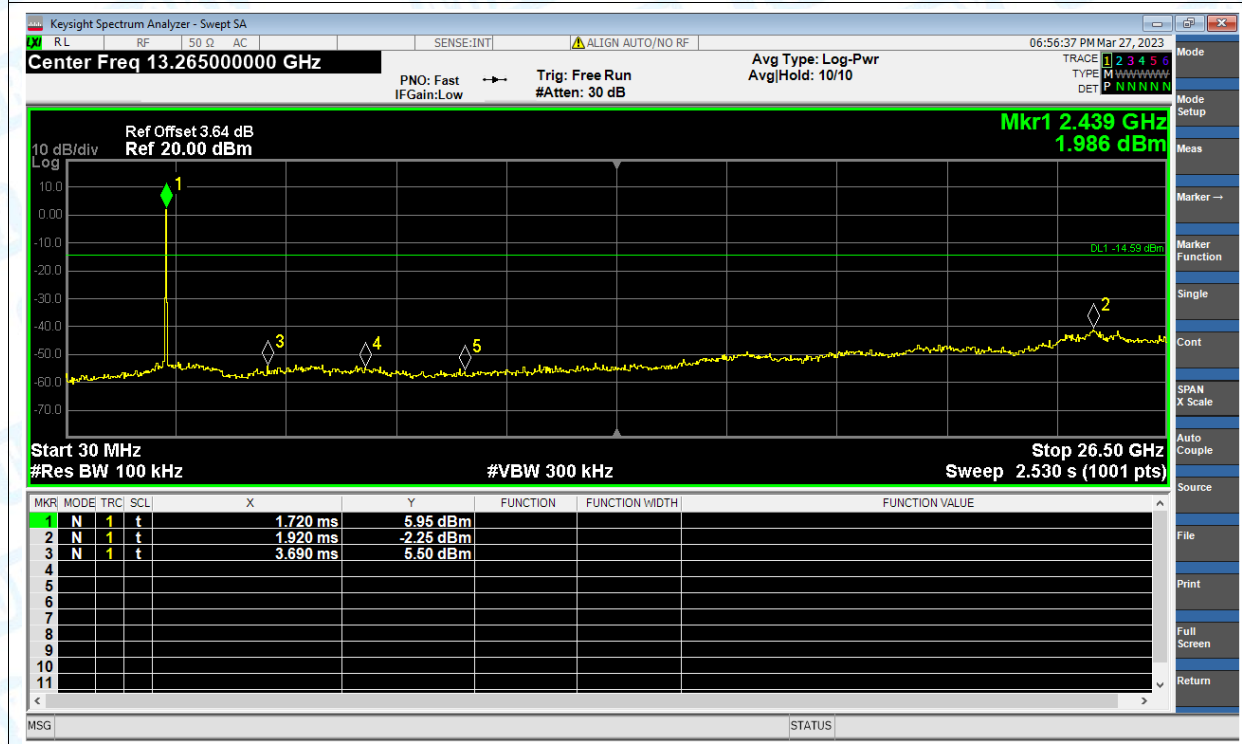
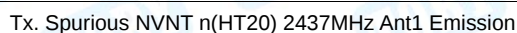


Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref

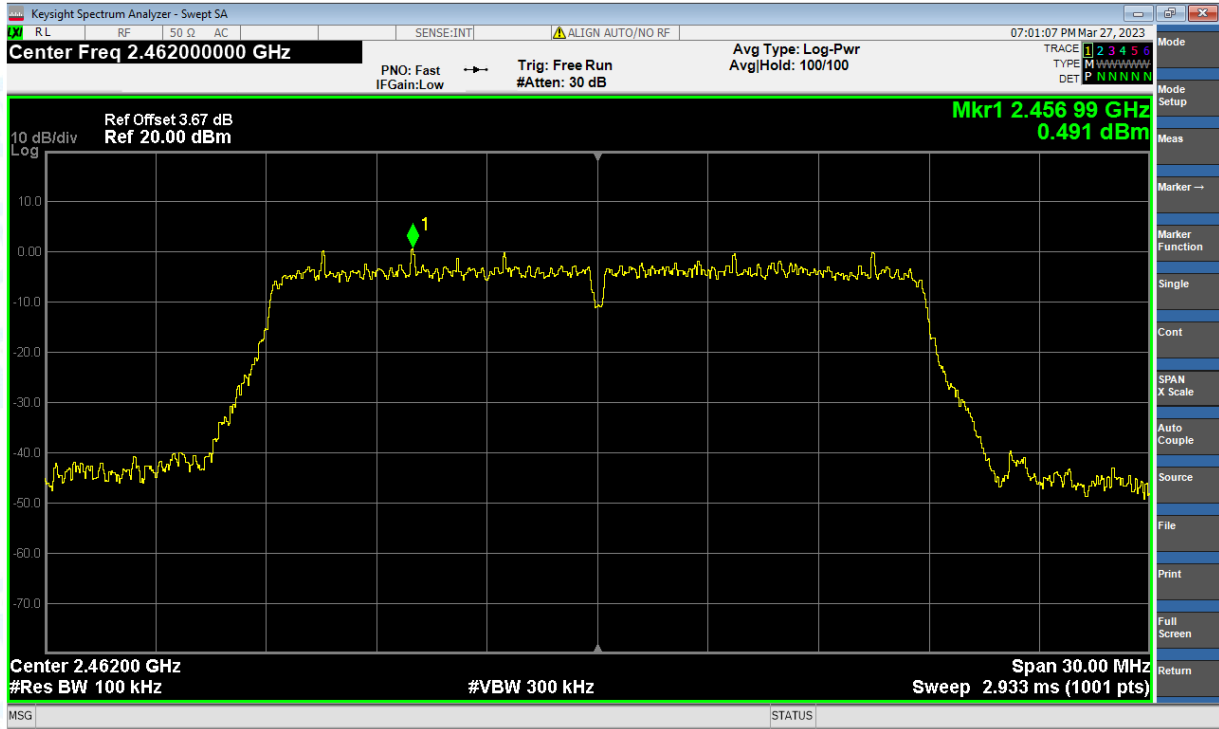


Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission

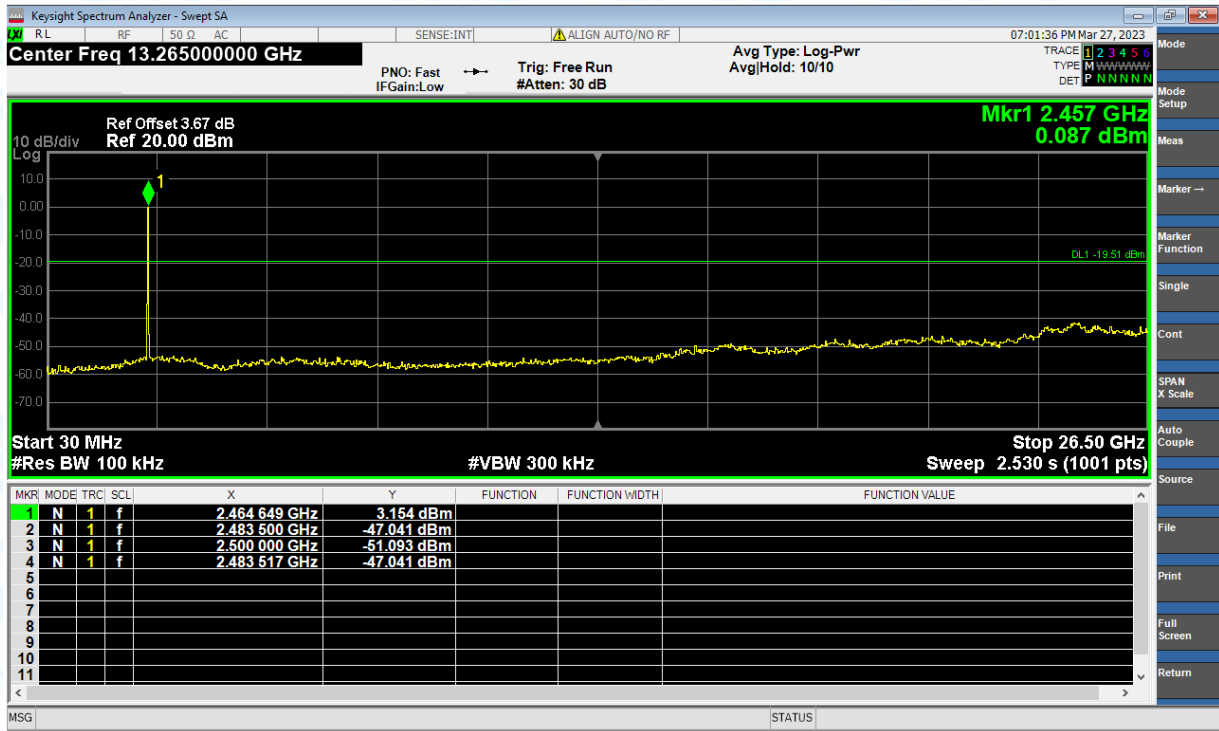




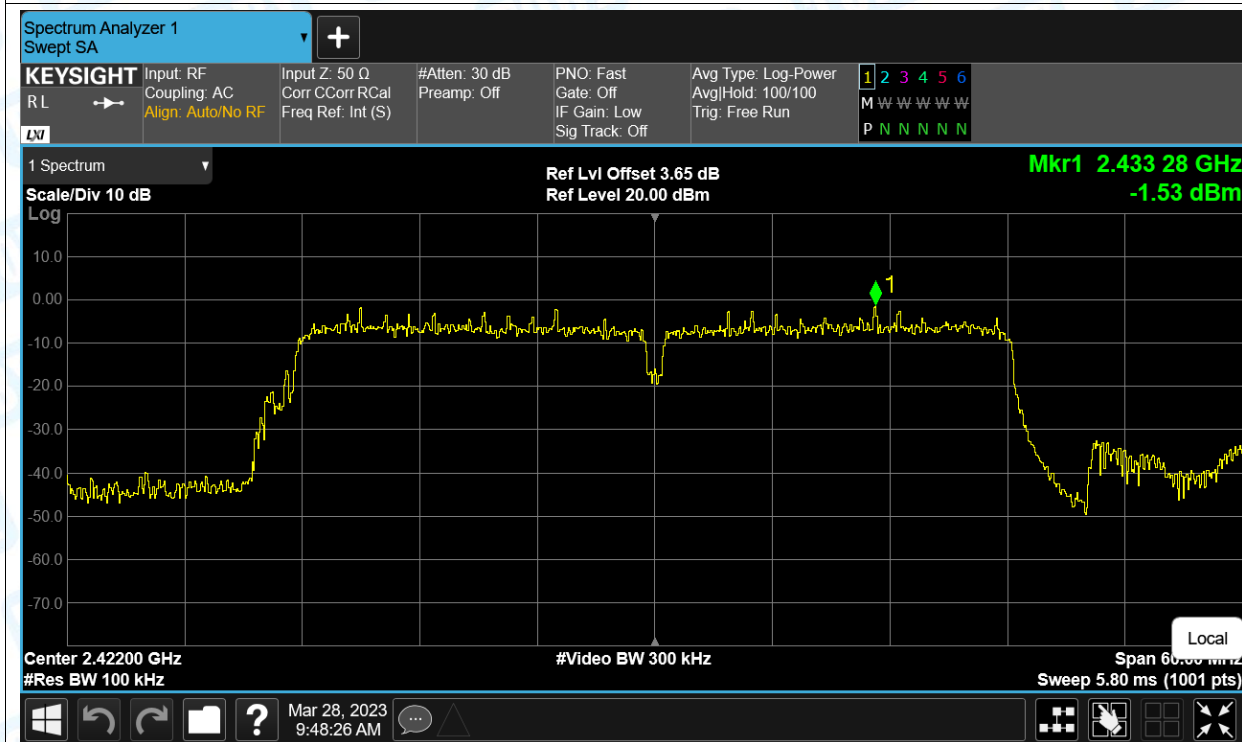
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



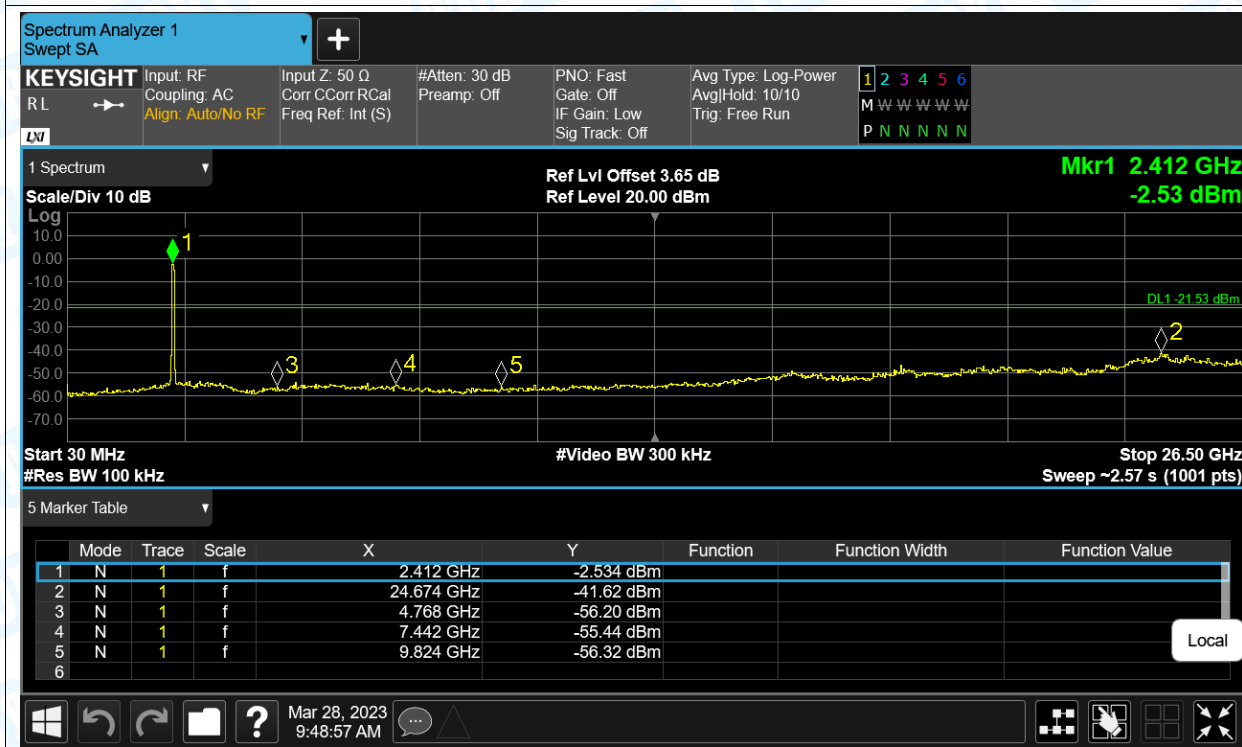
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



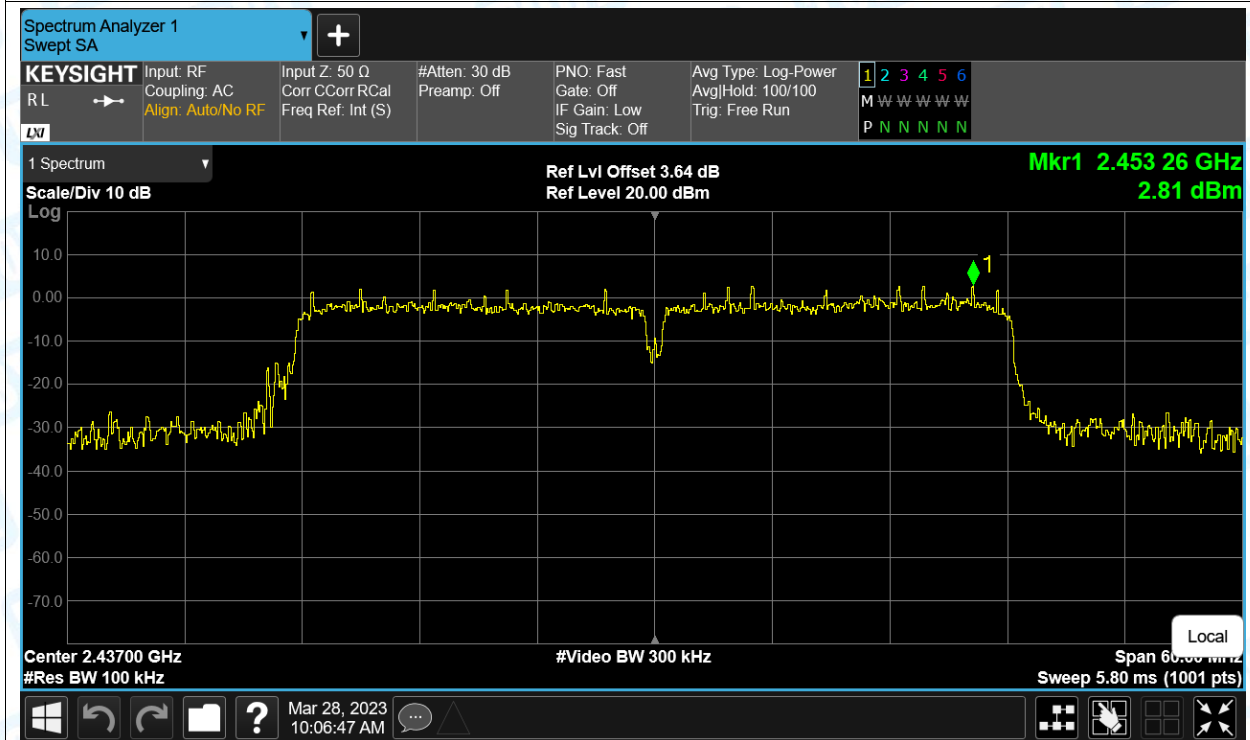
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Ref



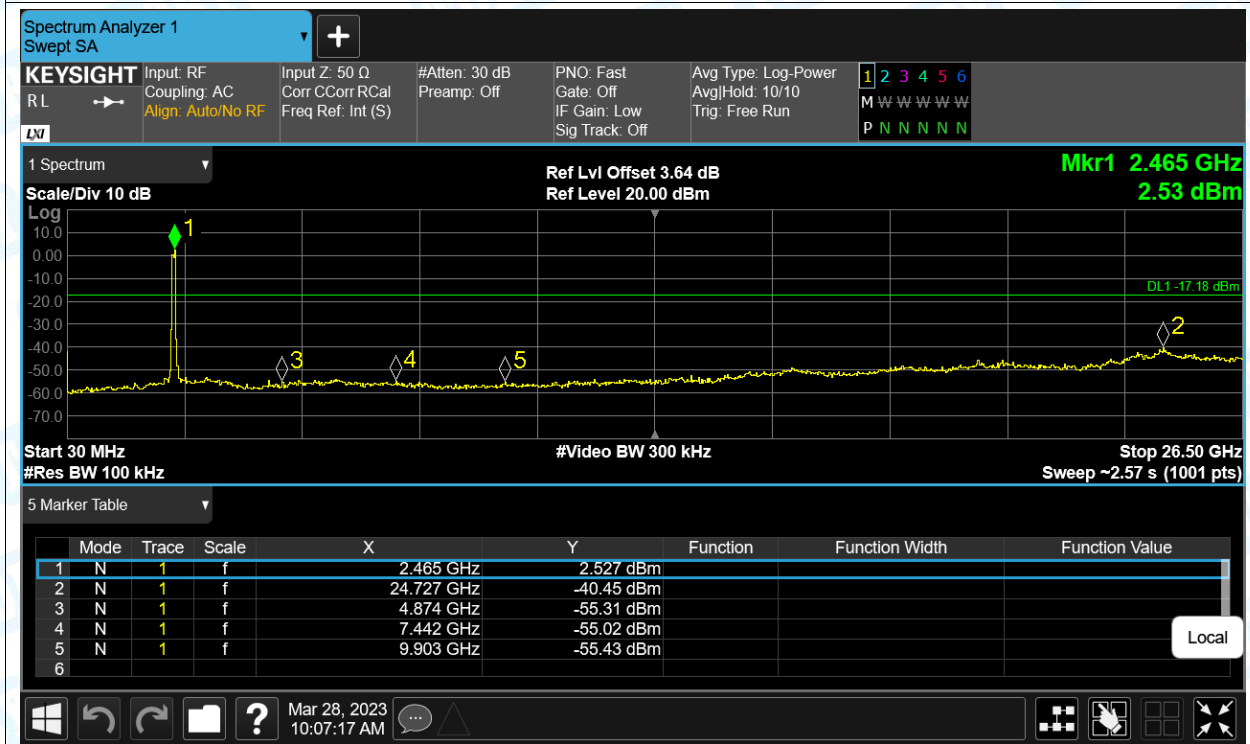
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Emission



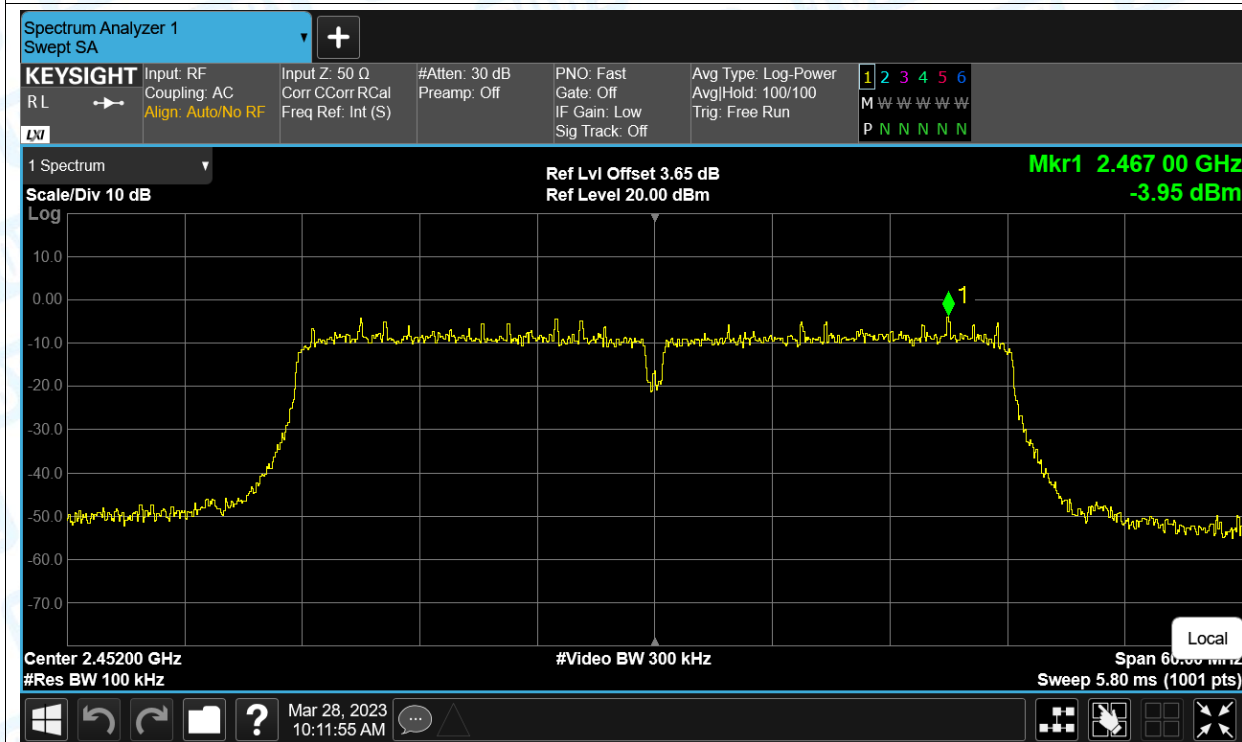
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



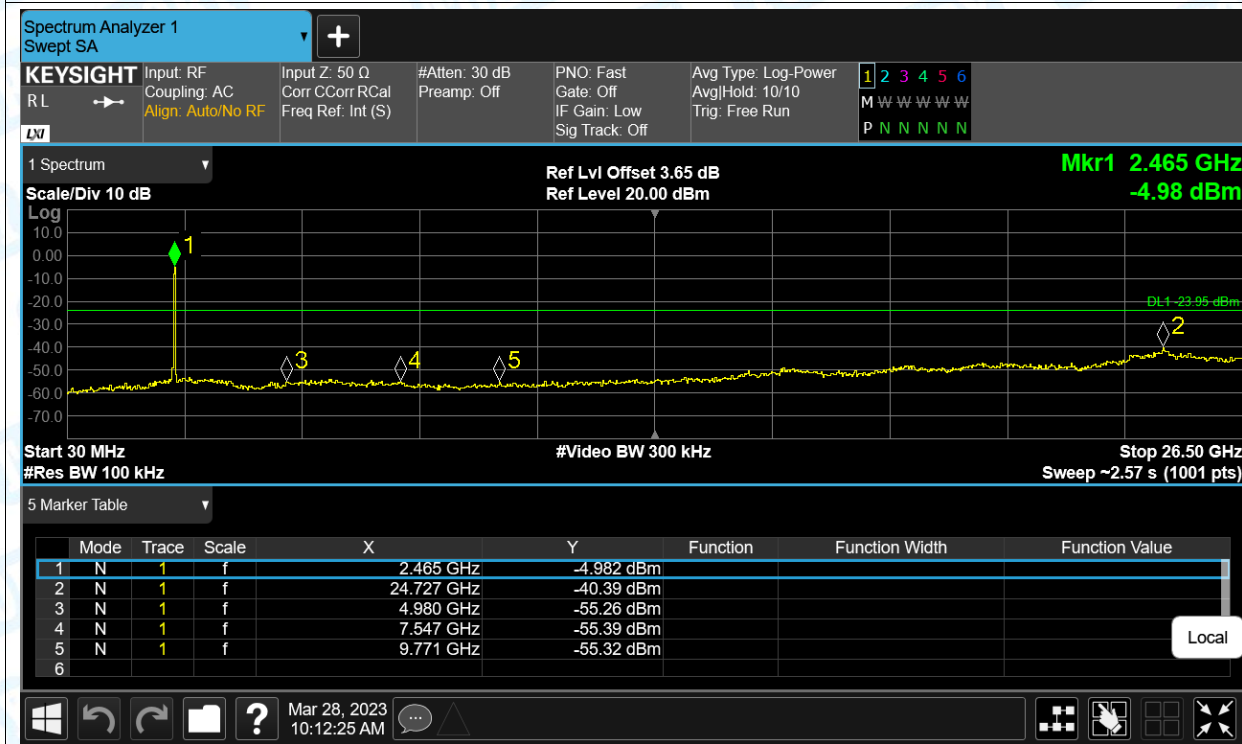
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



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



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



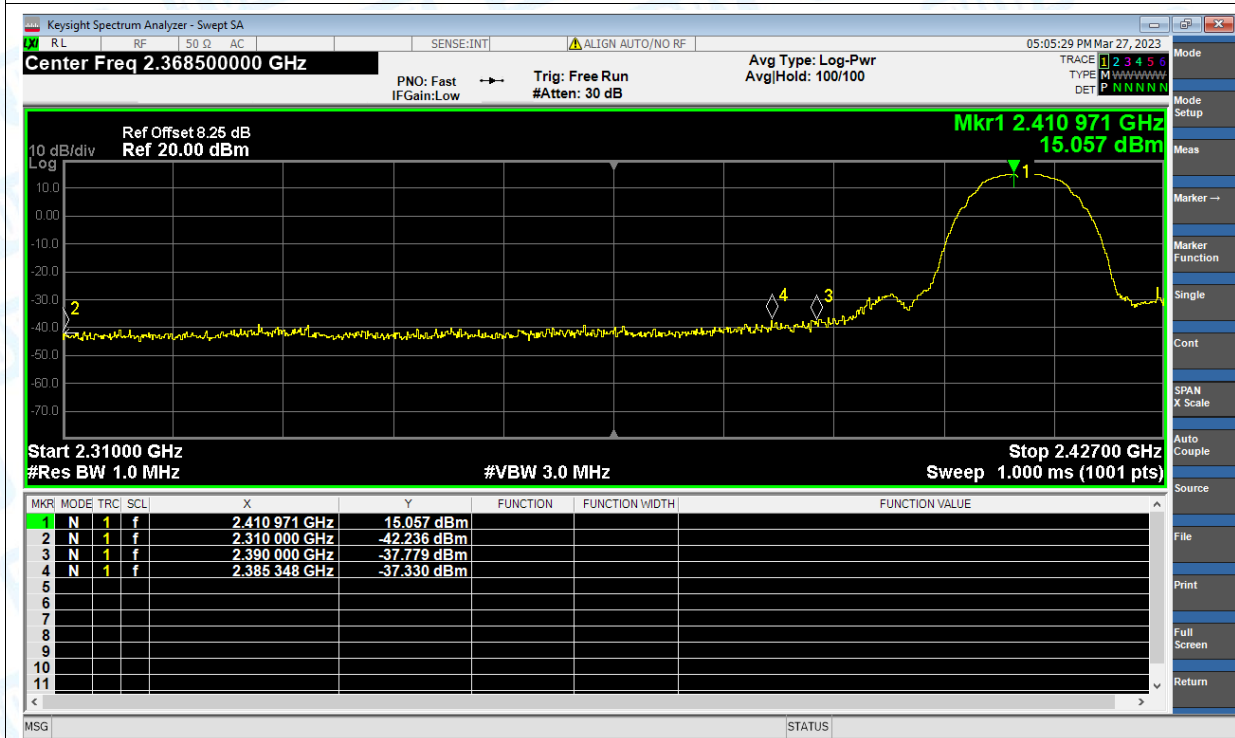
8. Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-42.24	4.58	57.6	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-53	4.58	46.84	Average	54	Pass
NVNT	b	2412	Ant1	2385.348	-37.33	4.58	62.51	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-47.57	4.58	52.27	Average	54	Pass
NVNT	b	2412	Ant1	2390	-37.78	4.58	62.06	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-47.49	4.58	52.35	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-38.84	4.58	61	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-47.08	4.58	52.76	Average	54	Pass
NVNT	b	2462	Ant1	2486.485	-34.94	4.58	64.9	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-47.08	4.58	52.76	Average	54	Pass
NVNT	b	2462	Ant1	2500	-39.14	4.58	60.7	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-51.53	4.58	48.31	Average	54	Pass
NVNT	g	2412	Ant1	2310	-42.68	4.58	57.16	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-52.87	4.58	46.97	Average	54	Pass
NVNT	g	2412	Ant1	2383.125	-32.83	4.58	67.01	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-47.31	4.58	52.53	Average	54	Pass
NVNT	g	2412	Ant1	2390	-32.48	4.58	67.36	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-47.22	4.58	52.62	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-35.71	4.58	64.13	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-47.23	4.58	52.61	Average	54	Pass
NVNT	g	2462	Ant1	2484.047	-29.61	4.58	70.23	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-47.23	4.58	52.61	Average	54	Pass
NVNT	g	2462	Ant1	2500	-40.86	4.58	58.98	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-51	4.58	48.84	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-42.52	4.58	57.32	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-53.01	4.58	46.83	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2389.326	-32.88	4.58	66.96	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.794	-46.28	4.58	53.56	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-31.63	4.58	68.21	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-46.19	4.58	53.65	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-33.93	4.58	65.91	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-47.04	4.58	52.8	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2484.789	-26.58	4.58	73.26	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-47.04	4.58	52.8	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-39.58	4.58	60.26	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-51.09	4.58	48.75	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2310	-43.77	4.58	56.07	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2310	-52.81	4.58	47.03	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2389.946	-33.38	4.58	66.46	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2389.946	-47.11	4.58	52.73	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2390	-34.24	4.58	65.6	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2390	-47.22	4.58	52.62	Average	54	Pass

NVNT	n(HT40)	2452	Ant1	2483.5	-39.71	4.58	60.13	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-48.45	4.58	51.39	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2484.166	-36.58	4.58	63.26	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2489.08	-46.58	4.58	53.26	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2500	-42.53	4.58	57.31	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2500	-50.75	4.58	49.09	Average	54	Pass

Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



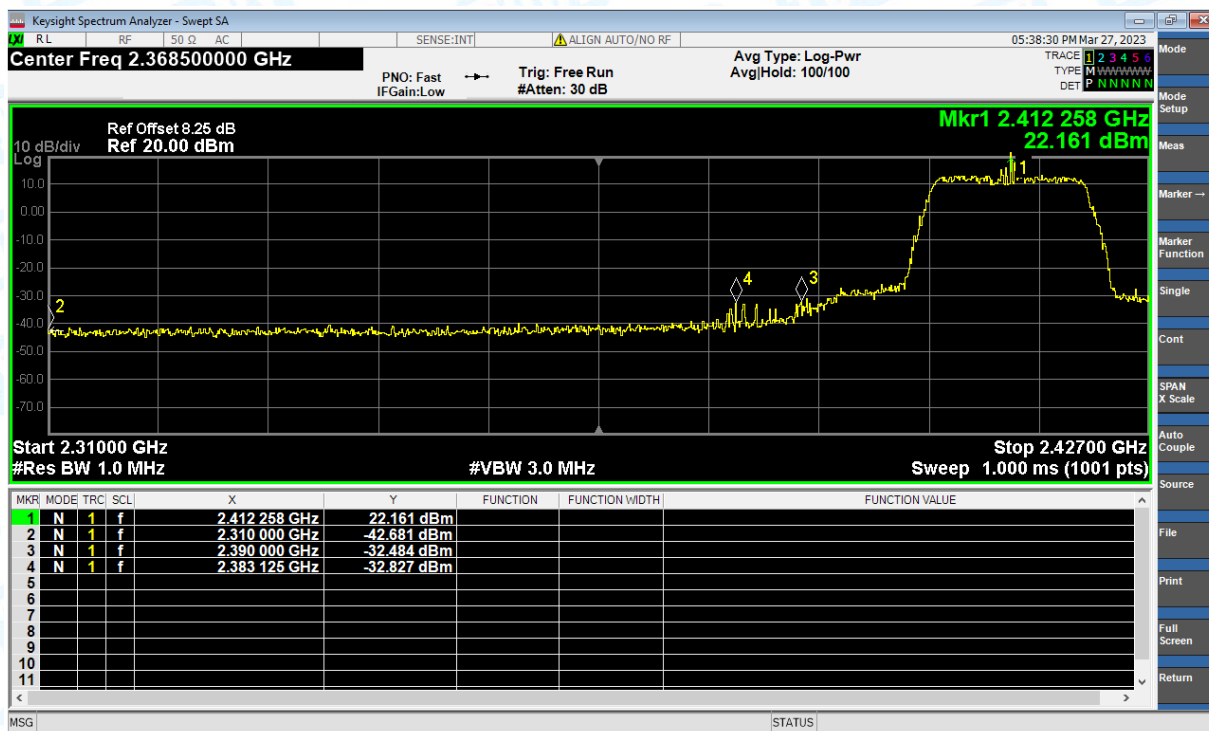
Restrict Band NVNT b 2462MHz Ant1 Peak



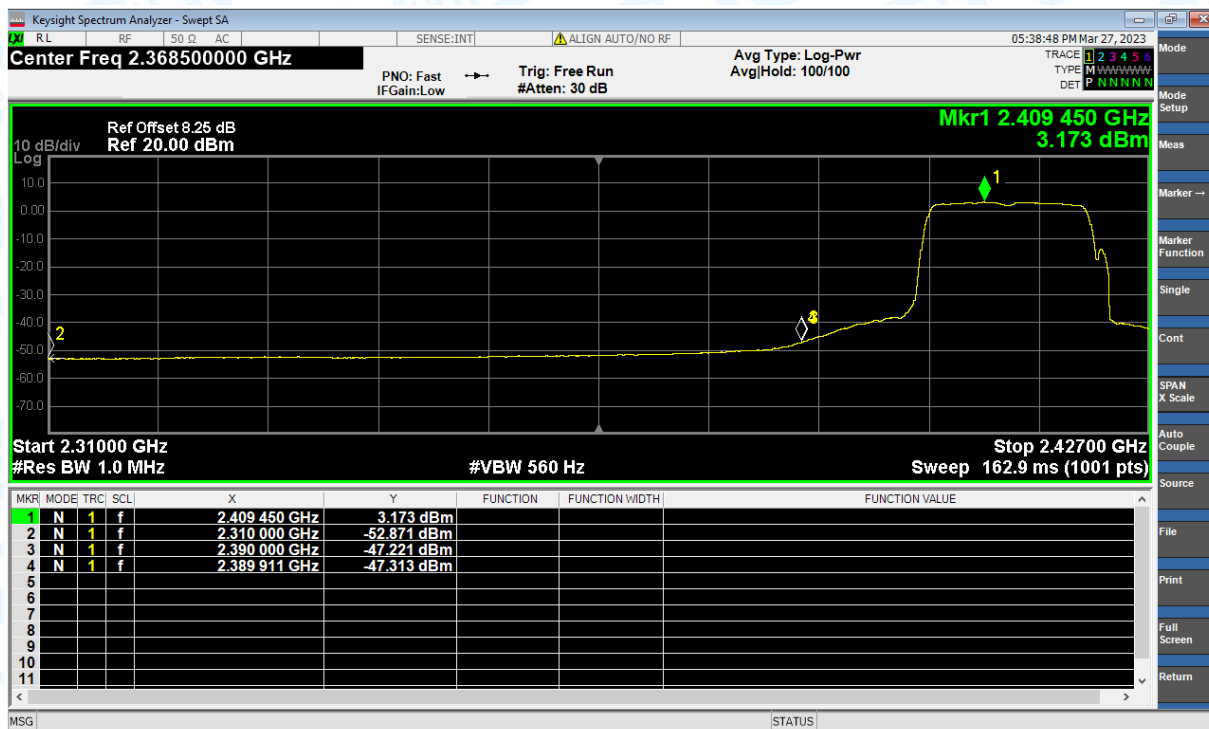
Restrict Band NVNT b 2462MHz Ant1 Average



Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



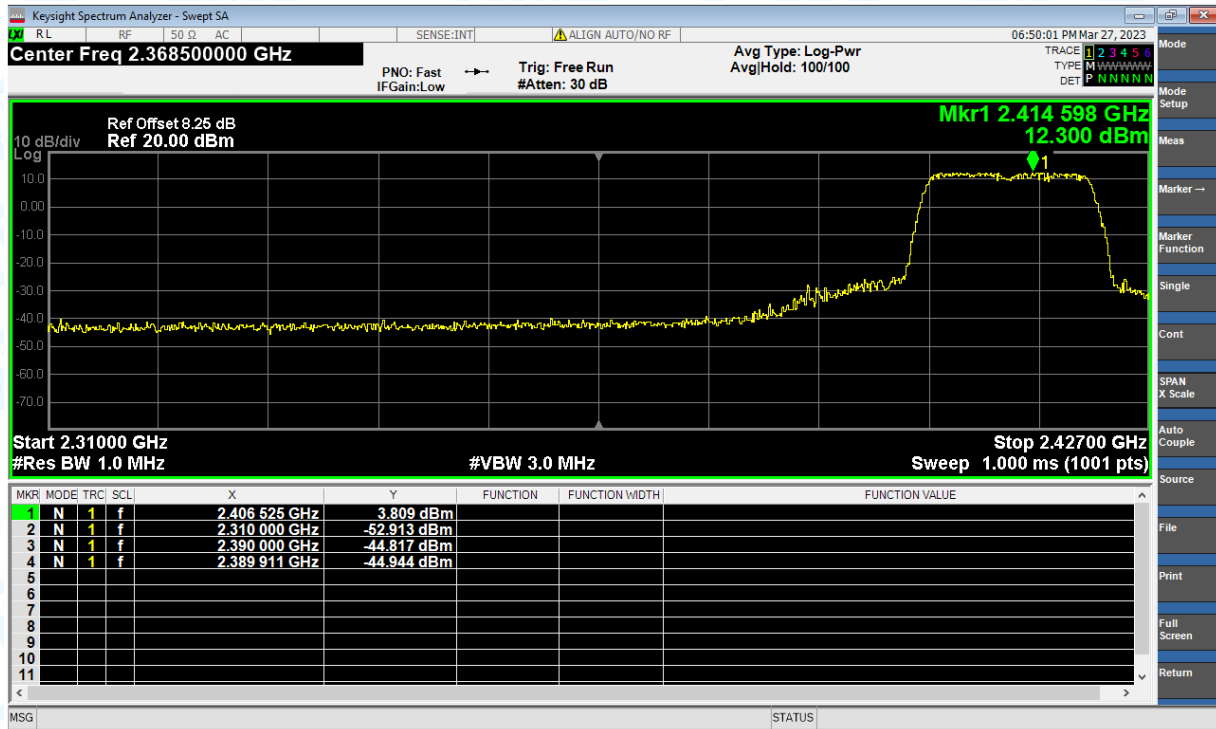
Restrict Band NVNT g 2462MHz Ant1 Peak



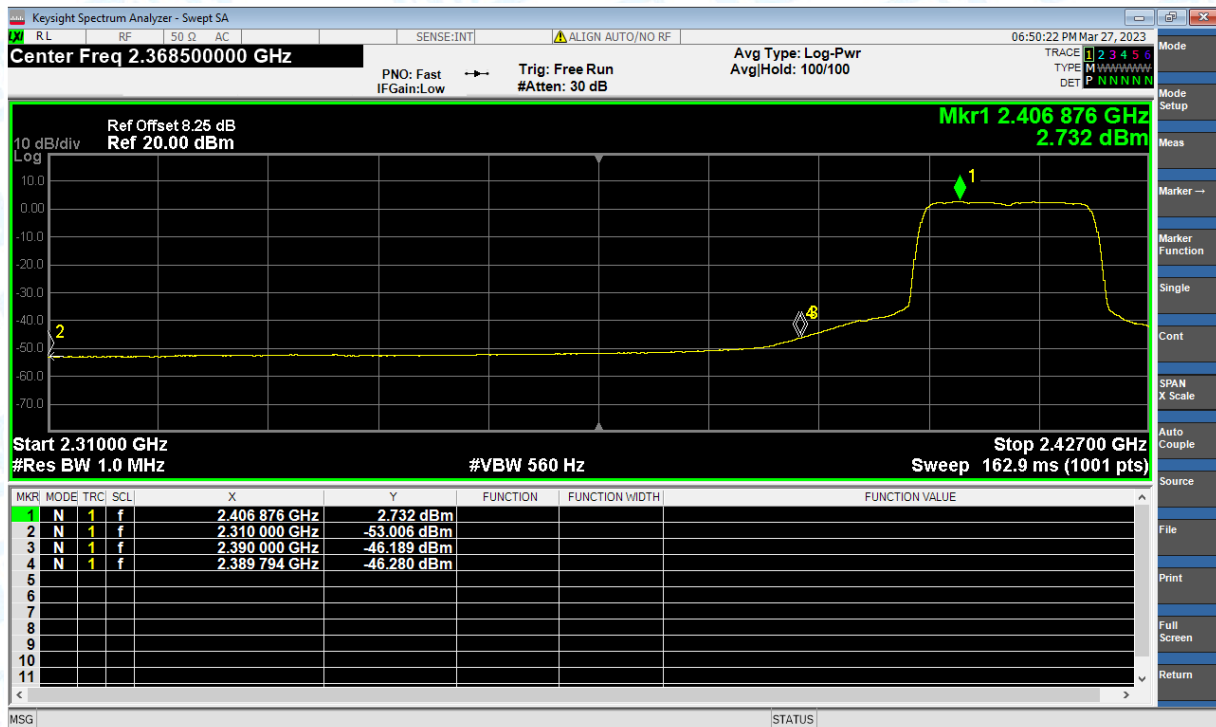
Restrict Band NVNT g 2462MHz Ant1 Average



Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



Restrict Band NVNT n(HT20) 2412MHz Ant1 Average



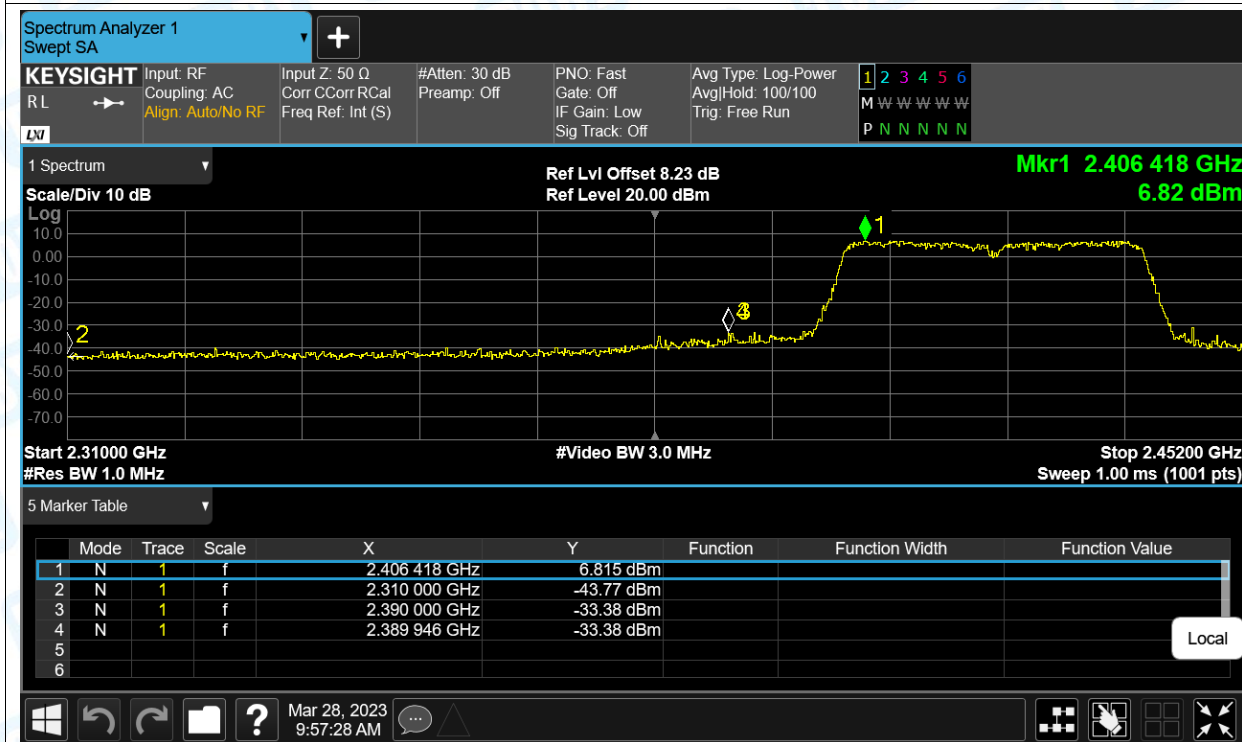
Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



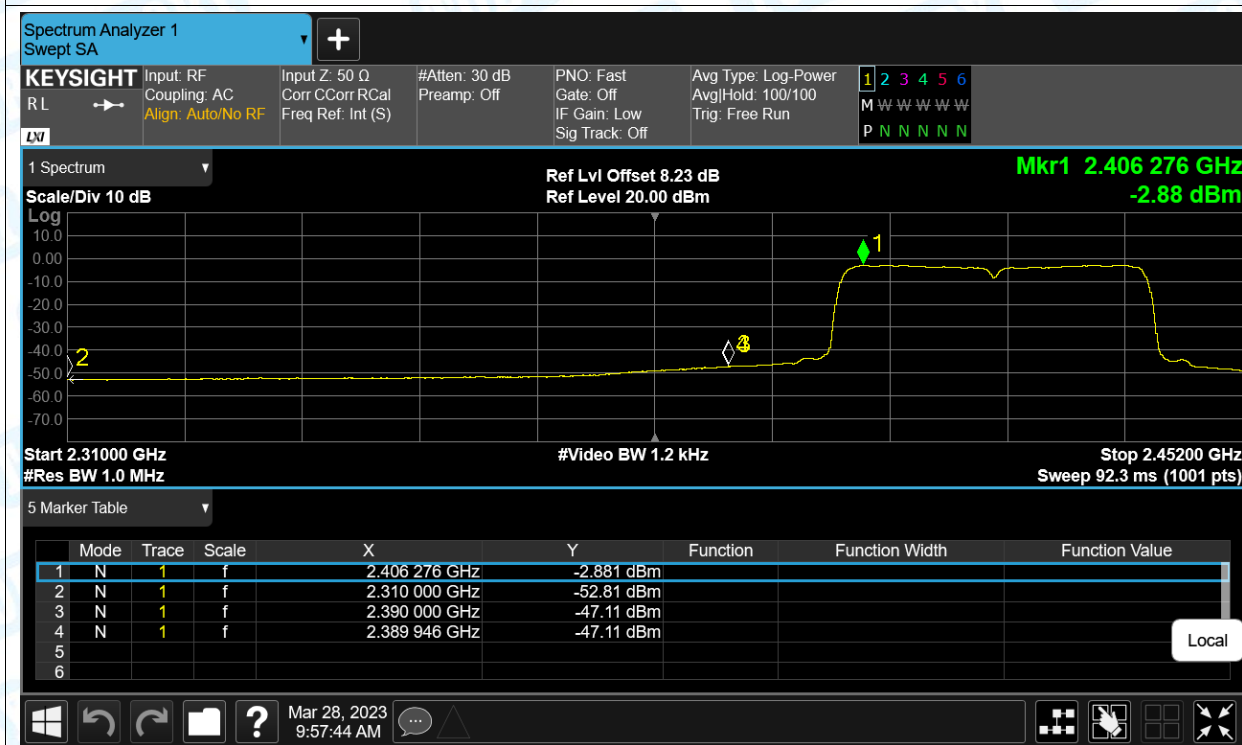
Restrict Band NVNT n(HT20) 2462MHz Ant1 Average



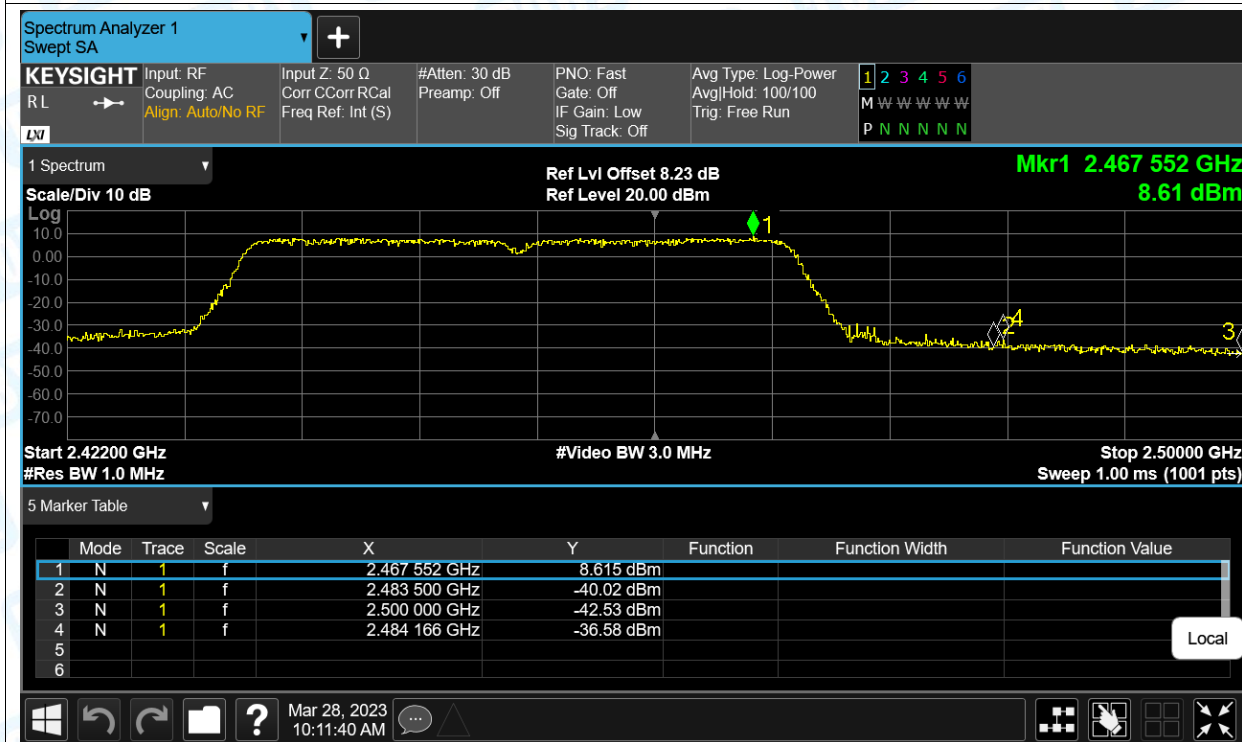
Restrict Band NVNT n(HT40) 2422MHz Ant1 Peak



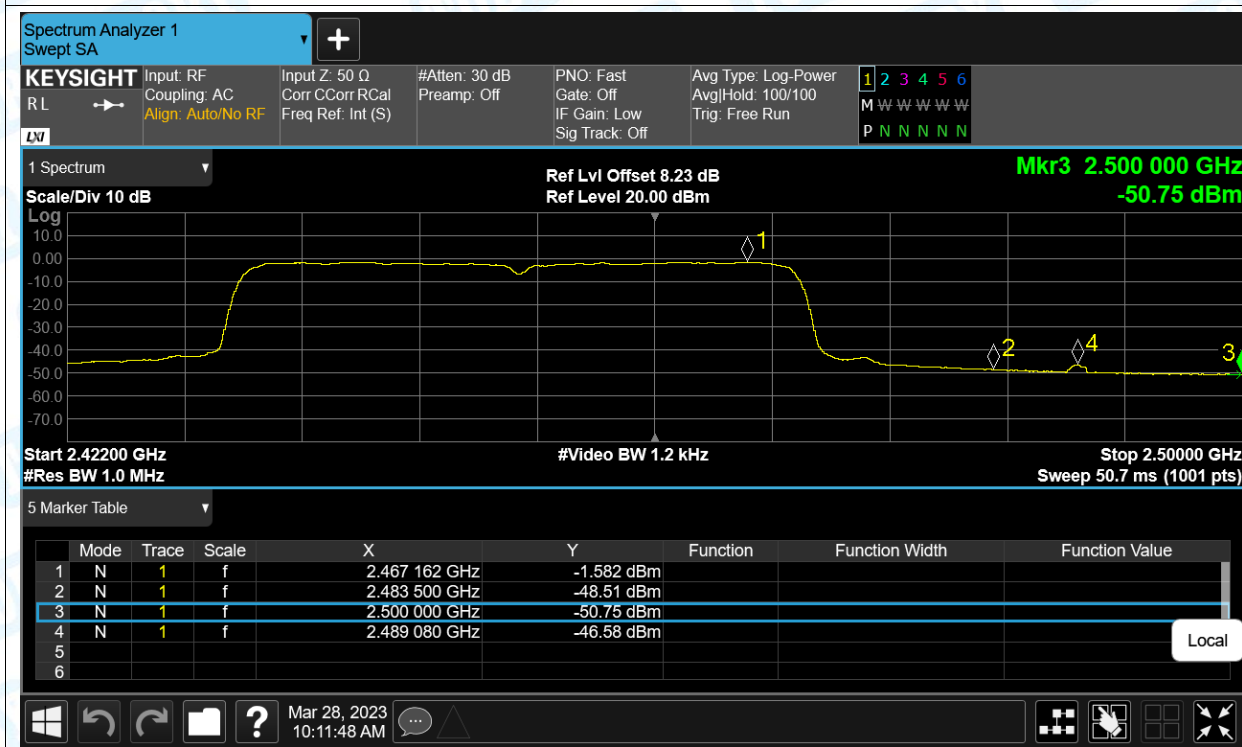
Restrict Band NVNT n(HT40) 2422MHz Ant1 Average



Restrict Band NVNT n(HT40) 2452MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2452MHz Ant1 Average



-----END OF THE REPORT-----