

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	IP Camera
Test Model:	DP01
Sample ID:	RW-C-202305-0155-2-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	AC 230V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202305-0155-10 The report only show the worst case data.	

Contents

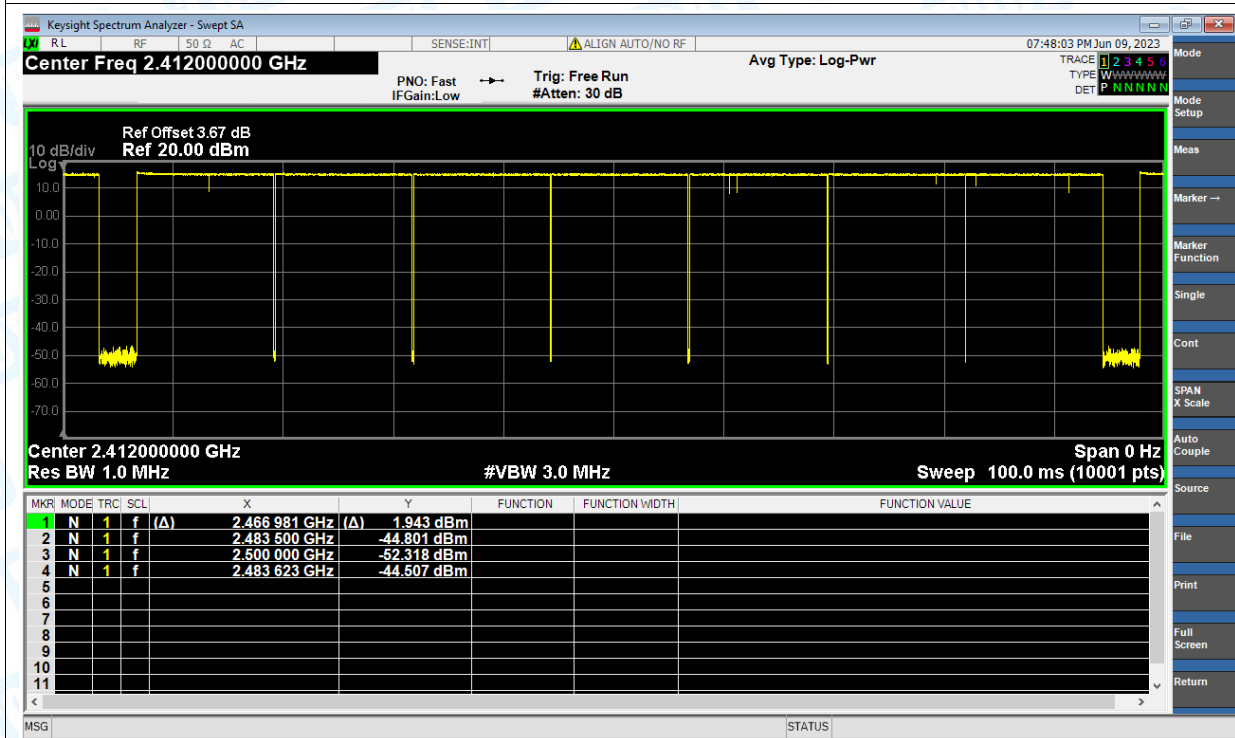
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1. Duty Cycle

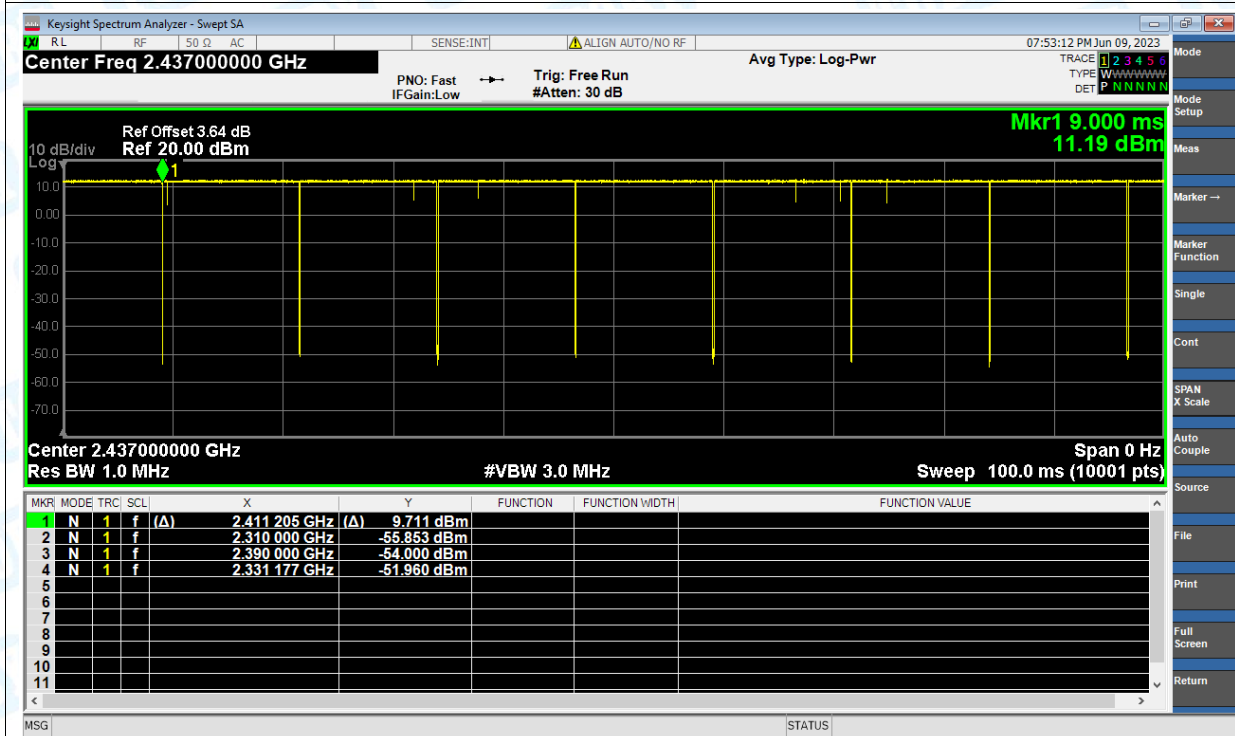
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	78.51	1.05	0.08
NVNT	b	2437	Ant1	99.6	0.02	0.08
NVNT	b	2462	Ant1	99.36	0.03	0.08
NVNT	g	2412	Ant1	94.95	0.23	0.48
NVNT	g	2437	Ant1	95.83	0.18	0.48
NVNT	g	2462	Ant1	96.73	0.14	0.48
NVNT	n(HT20)	2412	Ant1	98.47	0.07	0.52
NVNT	n(HT20)	2437	Ant1	93.2	0.31	0.52
NVNT	n(HT20)	2462	Ant1	95.52	0.2	0.52

Test Graphs

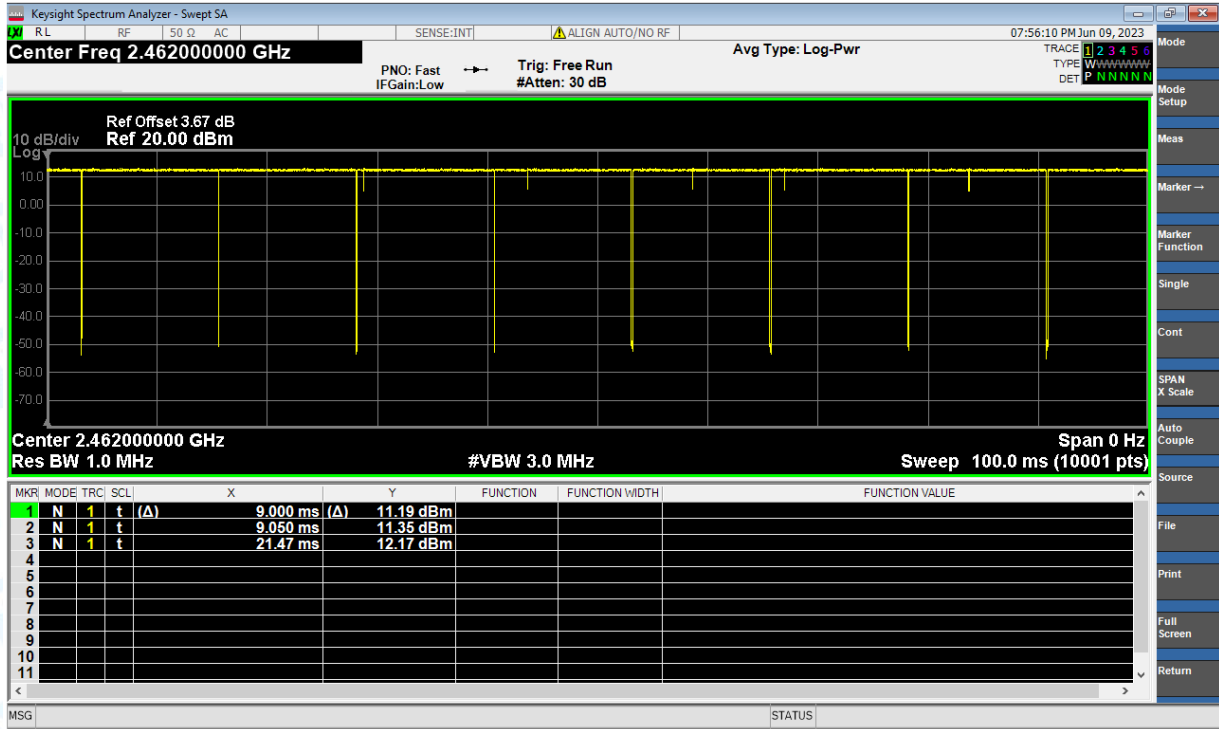
Duty Cycle NVNT b 2412MHz Ant1



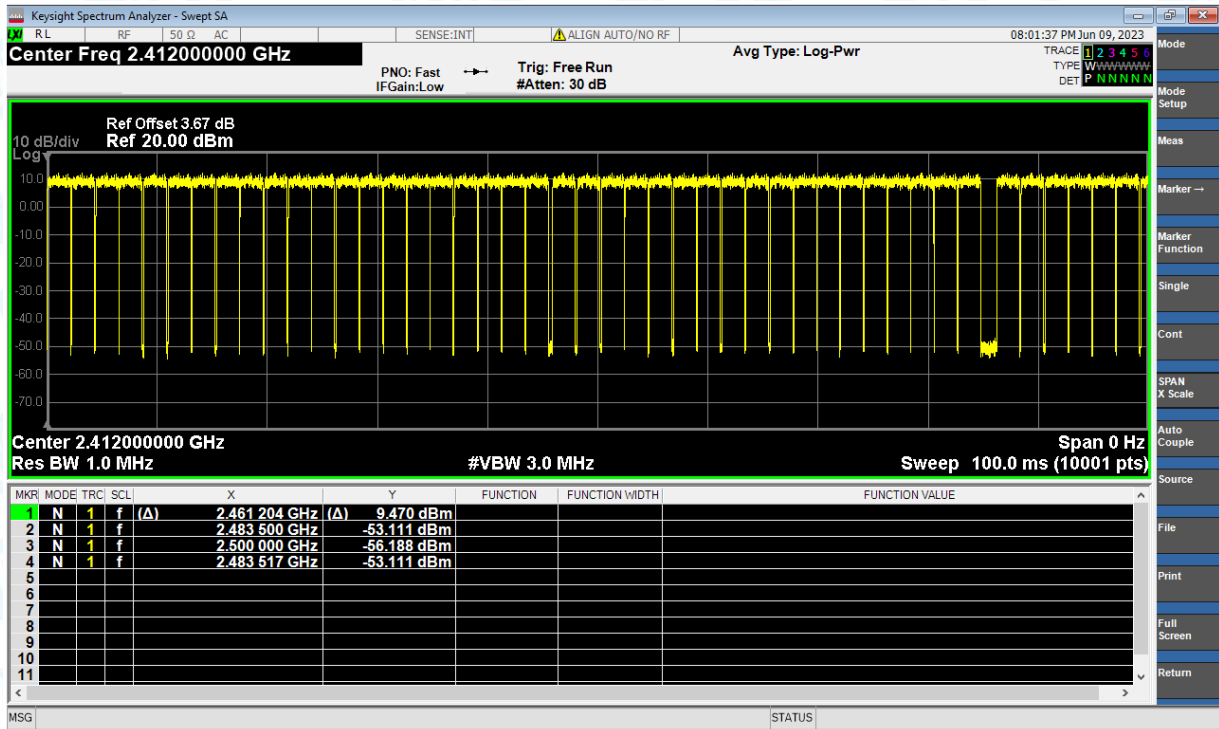
Duty Cycle NVNT b 2437MHz Ant1



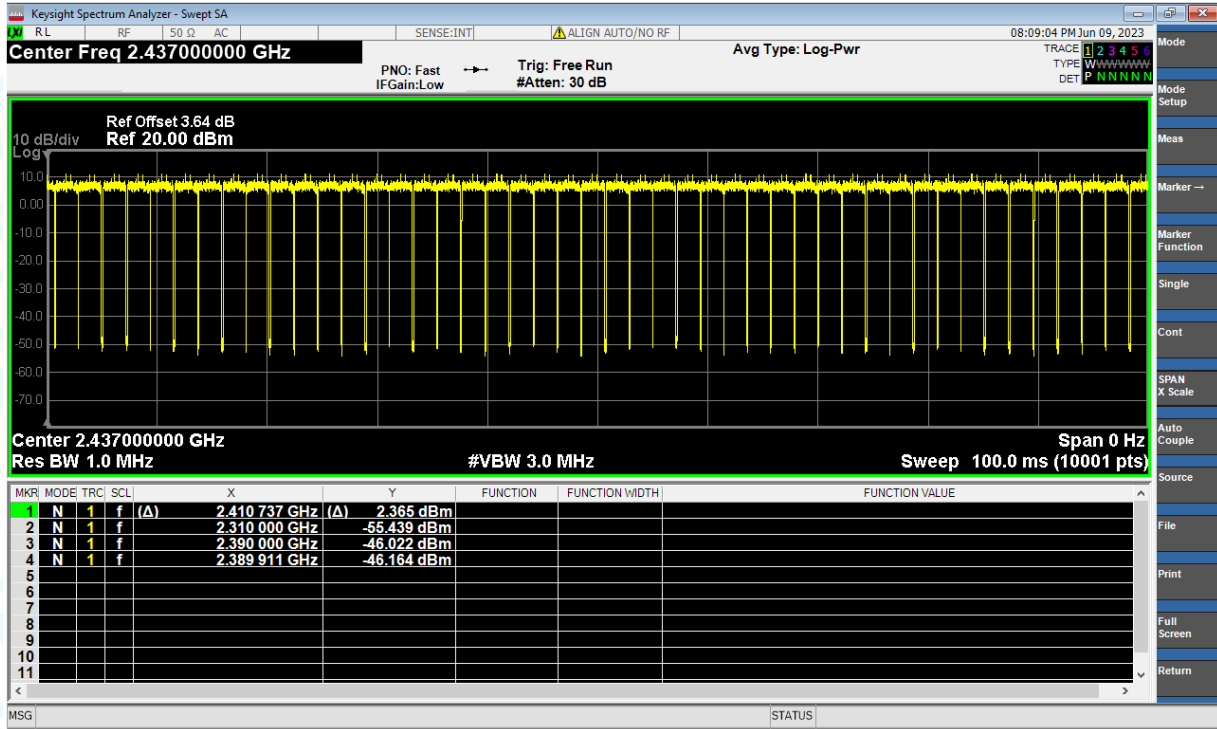
Duty Cycle NVNT b 2462MHz Ant1



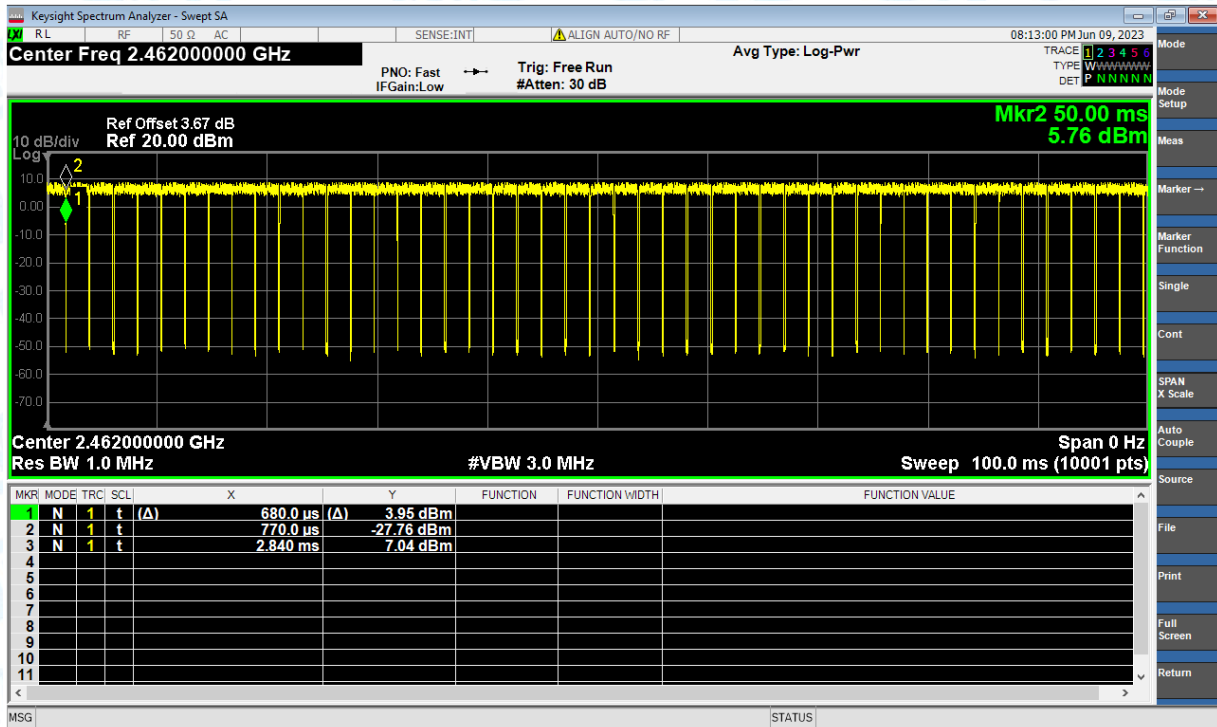
Duty Cycle NVNT g 2412MHz Ant1



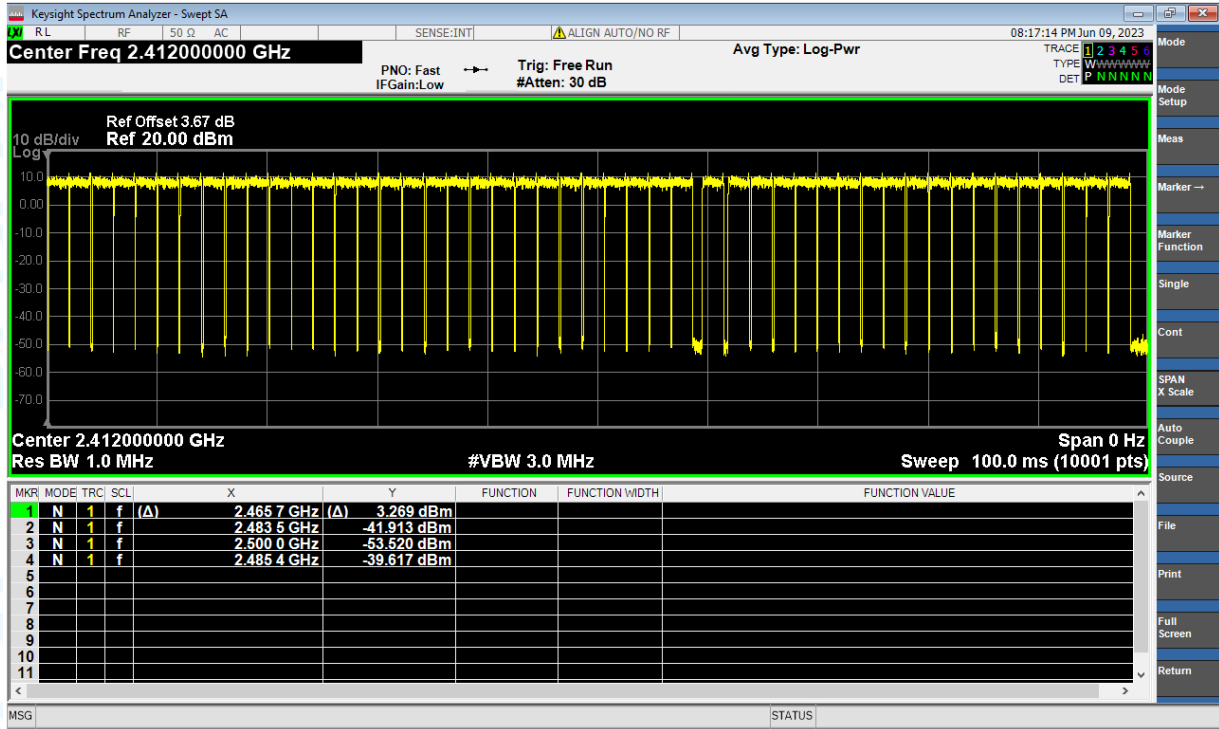
Duty Cycle NVNT g 2437MHz Ant1



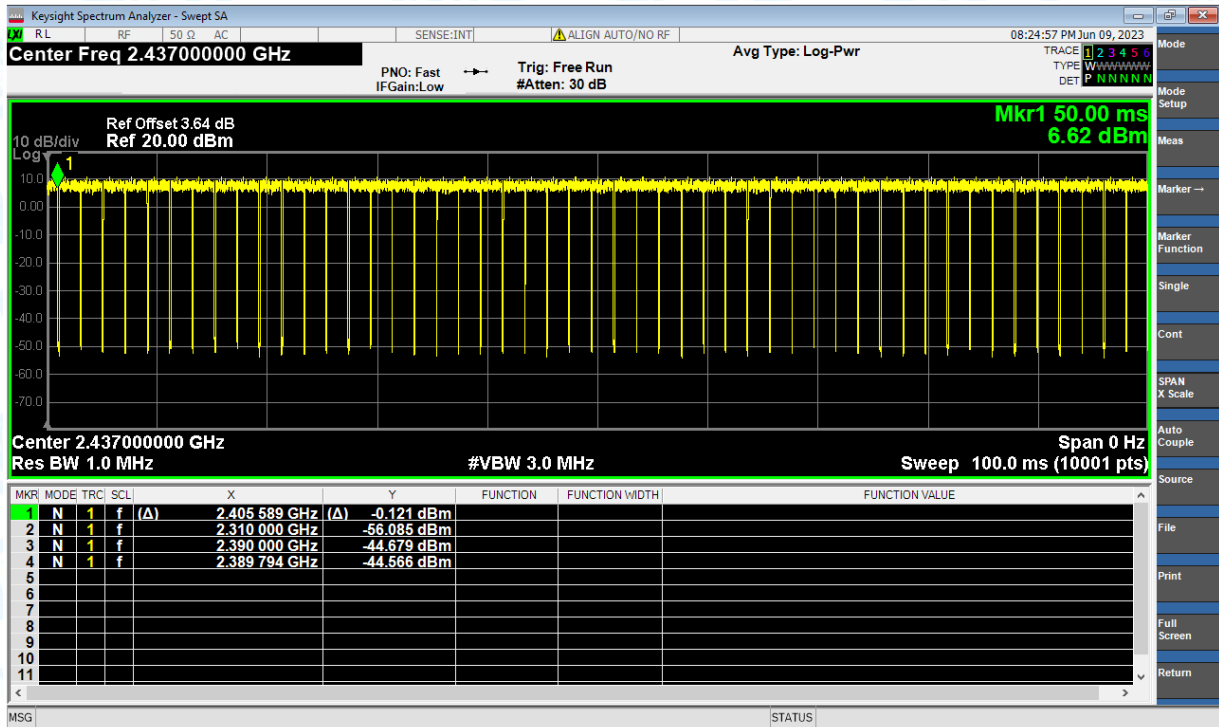
Duty Cycle NVNT g 2462MHz Ant1

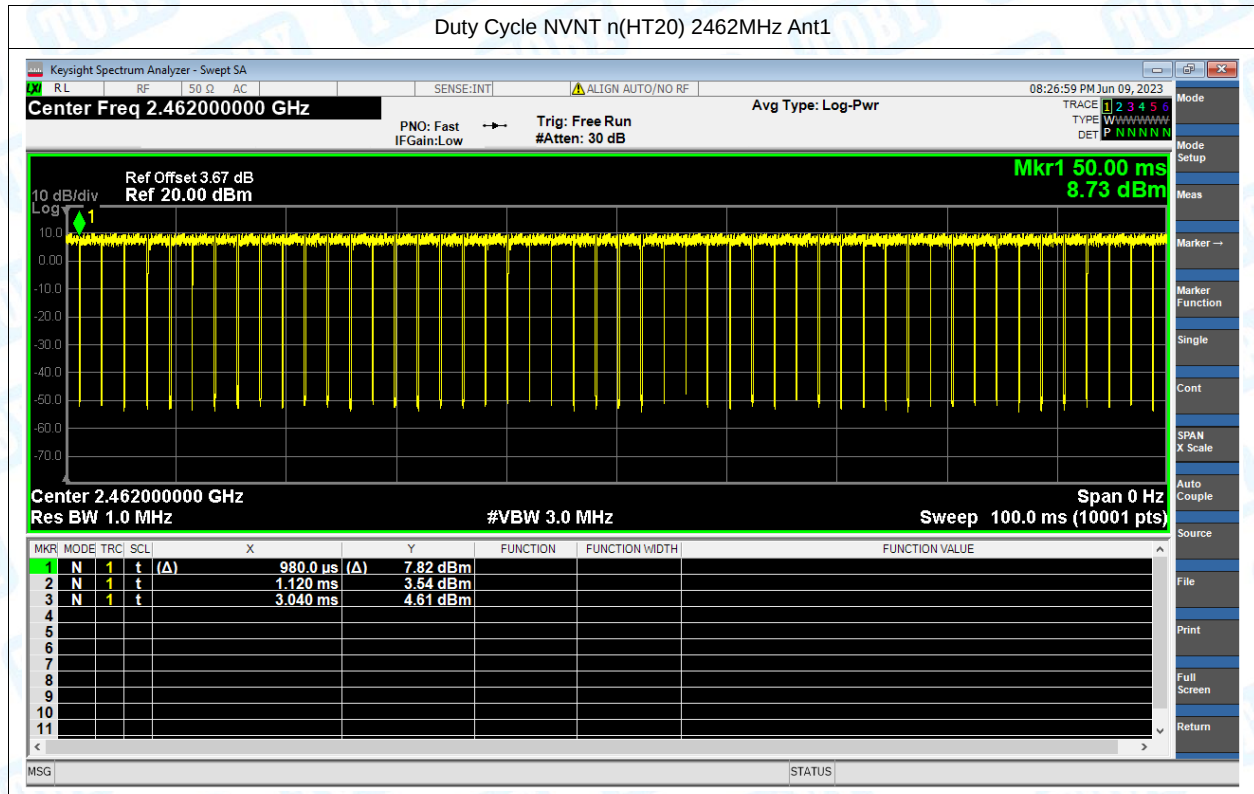


Duty Cycle NVNT n(HT20) 2412MHz Ant1



Duty Cycle NVNT n(HT20) 2437MHz Ant1





2. Maximum Conducted Output Power

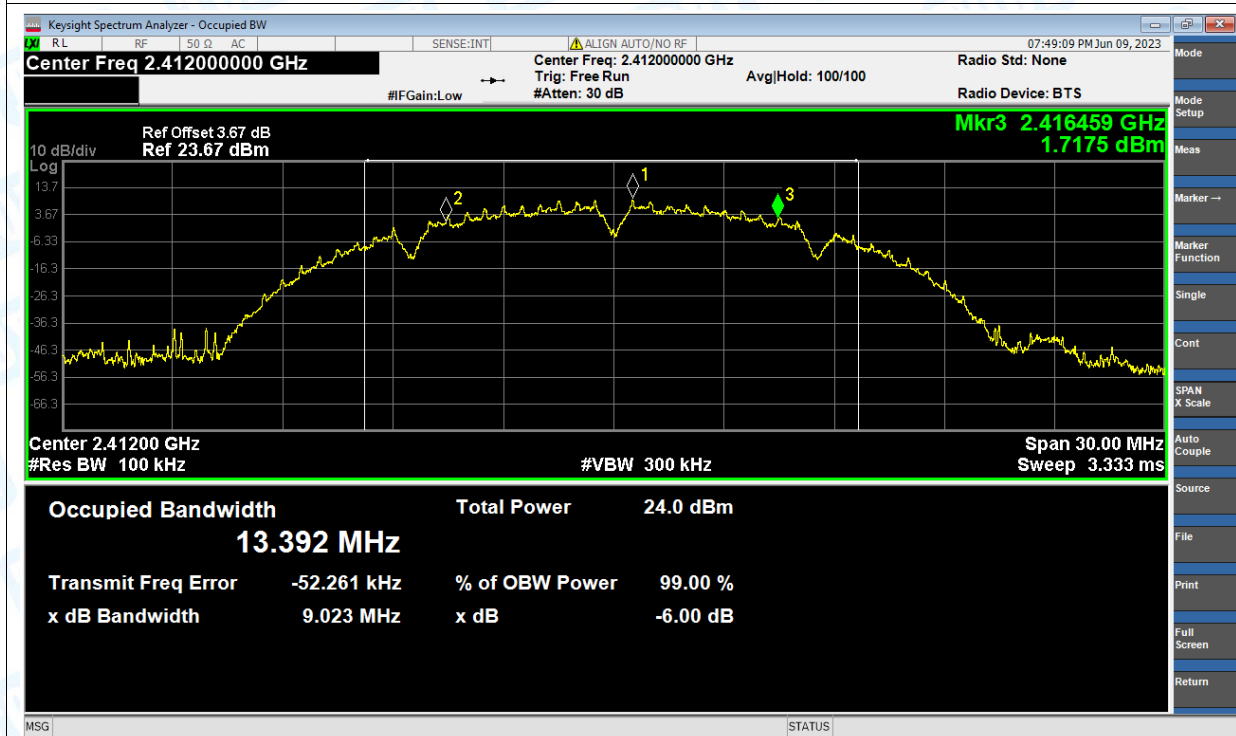
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.745	30	Pass
NVNT	b	2437	Ant1	17.776	30	Pass
NVNT	b	2462	Ant1	17.671	30	Pass
NVNT	g	2412	Ant1	15.798	30	Pass
NVNT	g	2437	Ant1	15.415	30	Pass
NVNT	g	2462	Ant1	15.369	30	Pass
NVNT	n(HT20)	2412	Ant1	14.729	30	Pass
NVNT	n(HT20)	2437	Ant1	15.209	30	Pass
NVNT	n(HT20)	2462	Ant1	14.166	30	Pass

3. -6dB Bandwidth

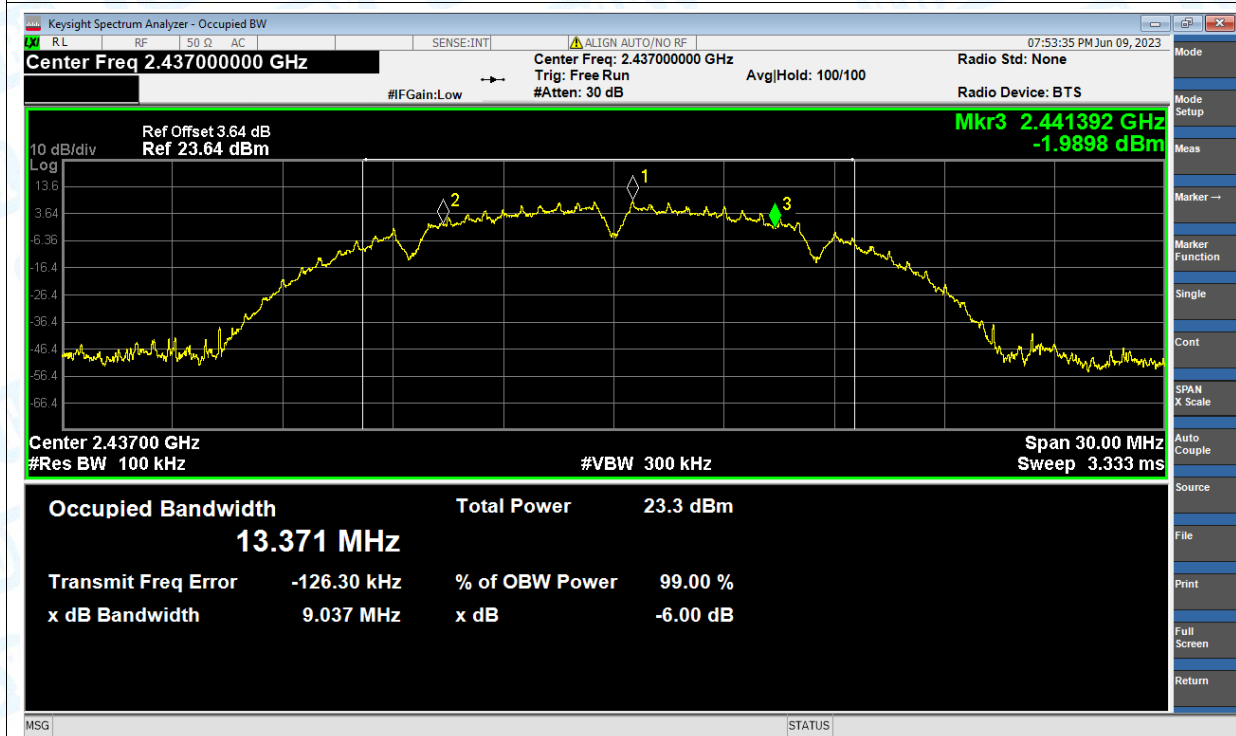
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.02	0.5	Pass
NVNT	b	2437	Ant1	9.04	0.5	Pass
NVNT	b	2462	Ant1	9.02	0.5	Pass
NVNT	g	2412	Ant1	16.36	0.5	Pass
NVNT	g	2437	Ant1	16.37	0.5	Pass
NVNT	g	2462	Ant1	16.3	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.54	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.28	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.56	0.5	Pass

Test Graphs

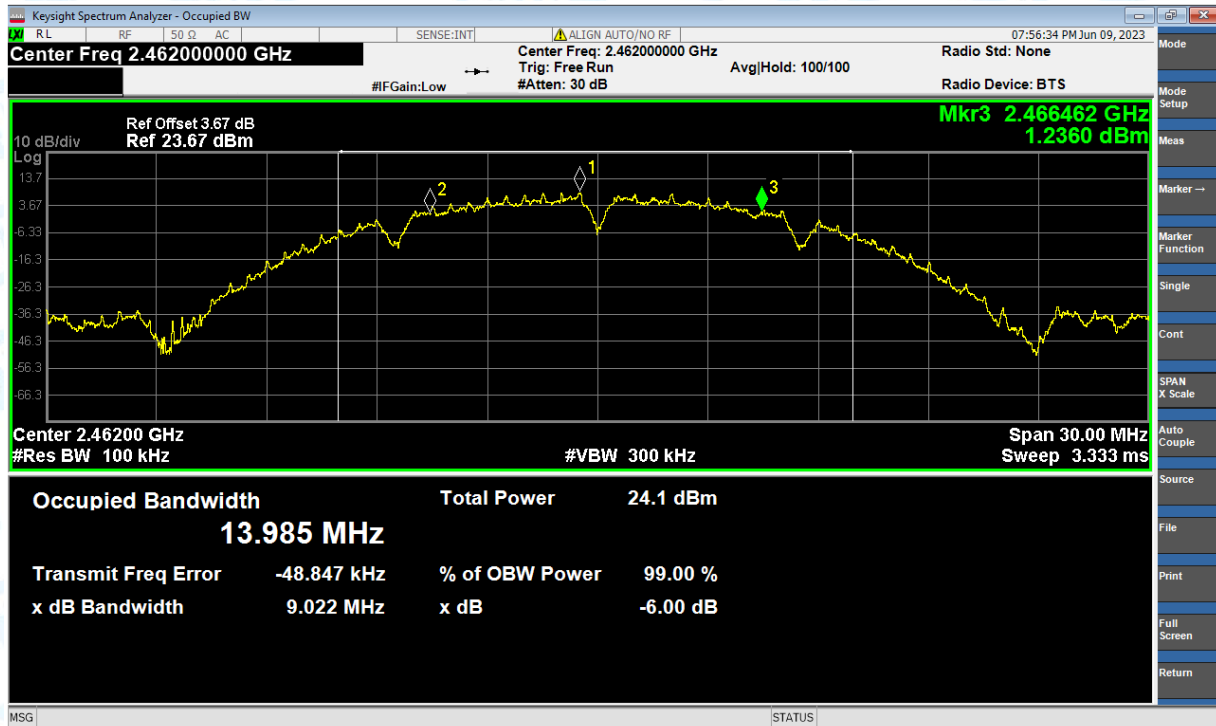
-6dB Bandwidth NVNT b 2412MHz Ant1



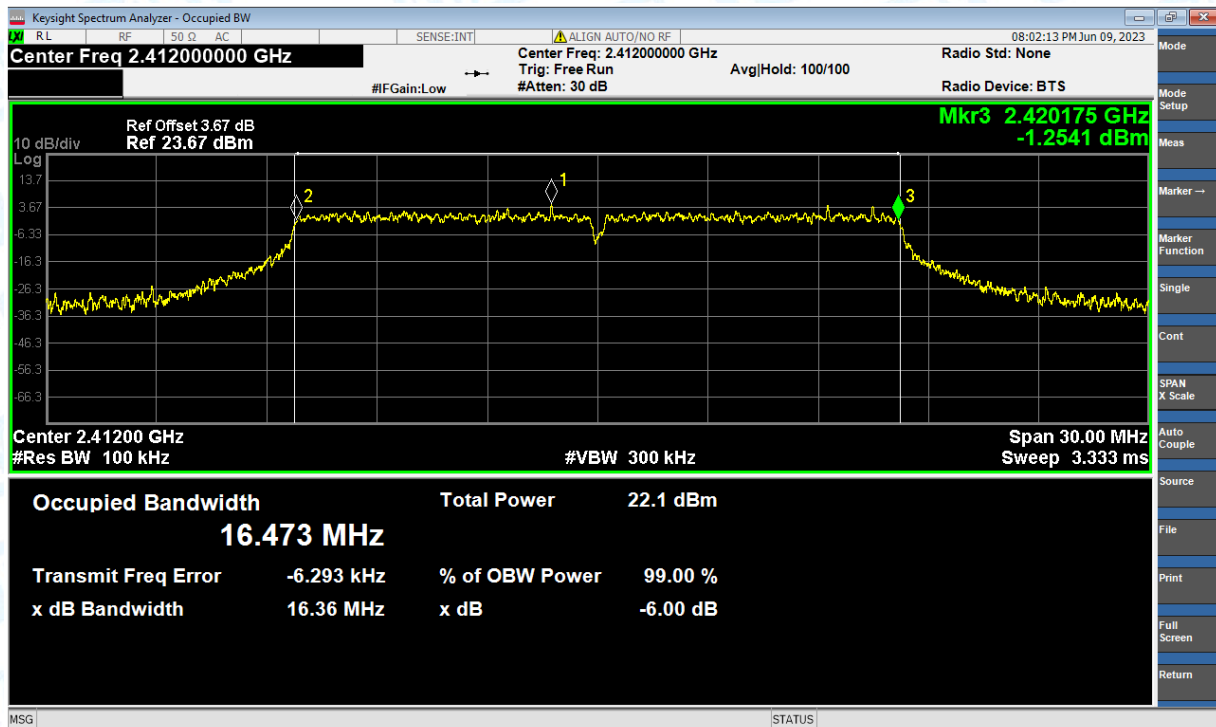
-6dB Bandwidth NVNT b 2437MHz Ant1



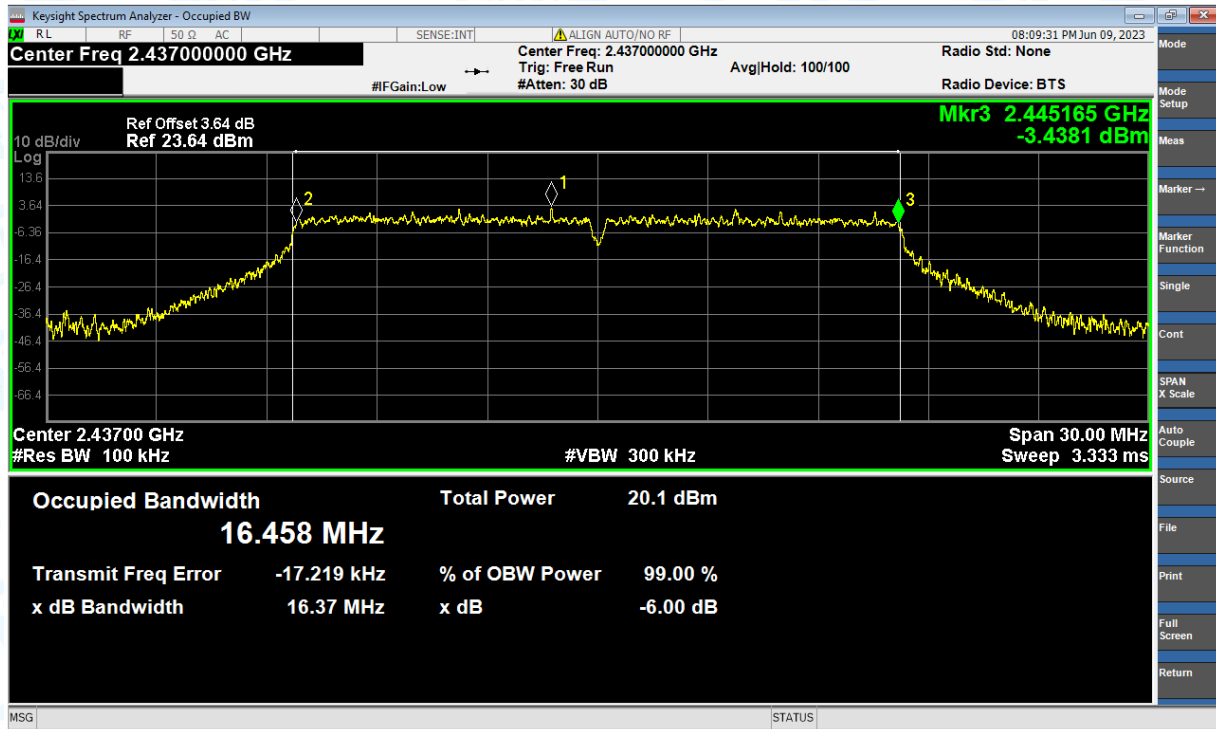
-6dB Bandwidth NVNT b 2462MHz Ant1



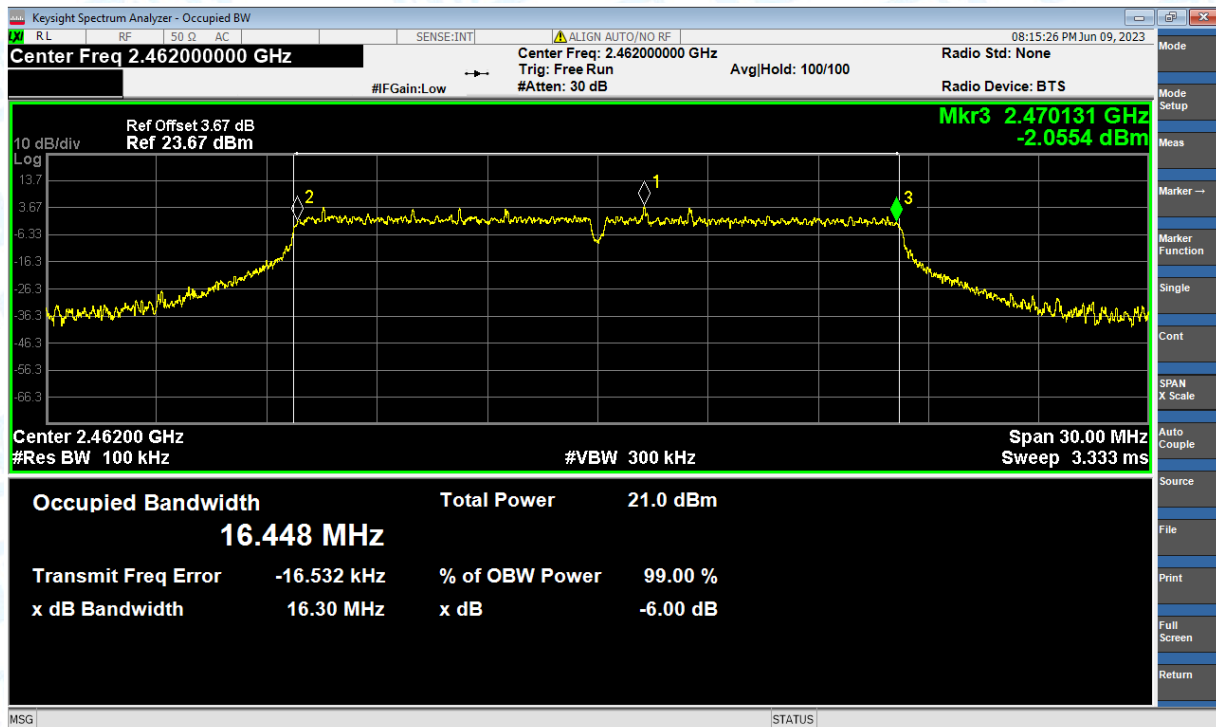
-6dB Bandwidth NVNT g 2412MHz Ant1



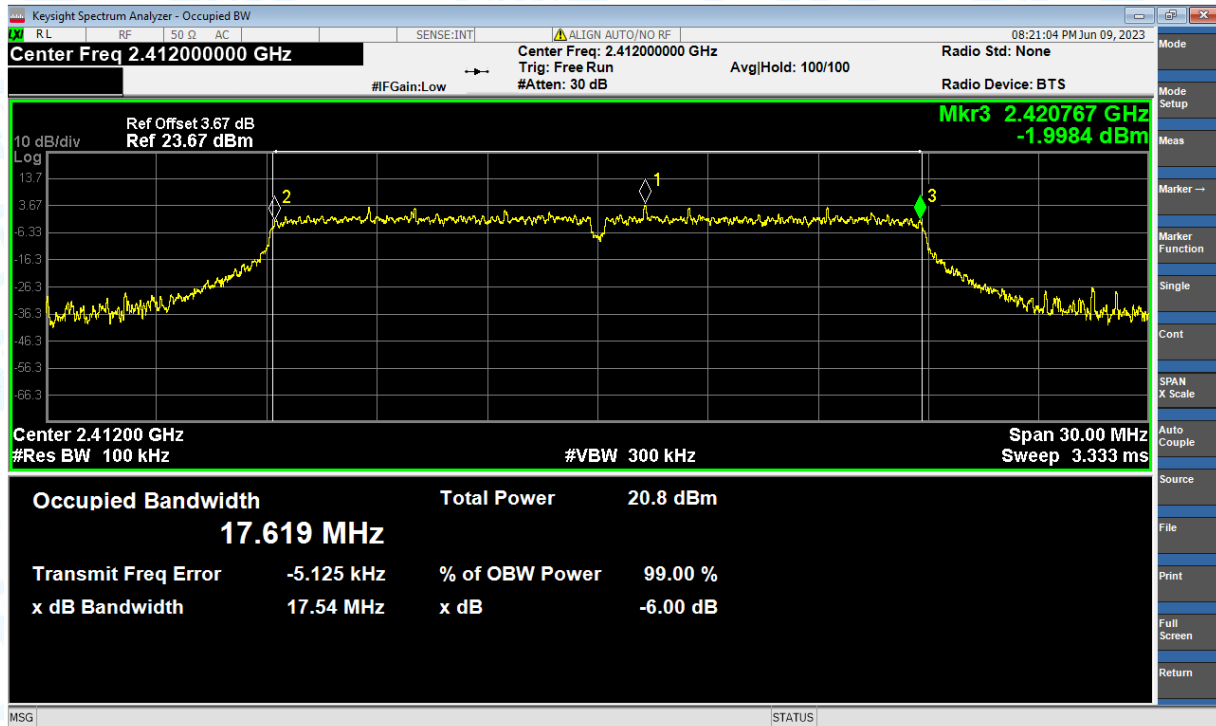
-6dB Bandwidth NVNT g 2437MHz Ant1



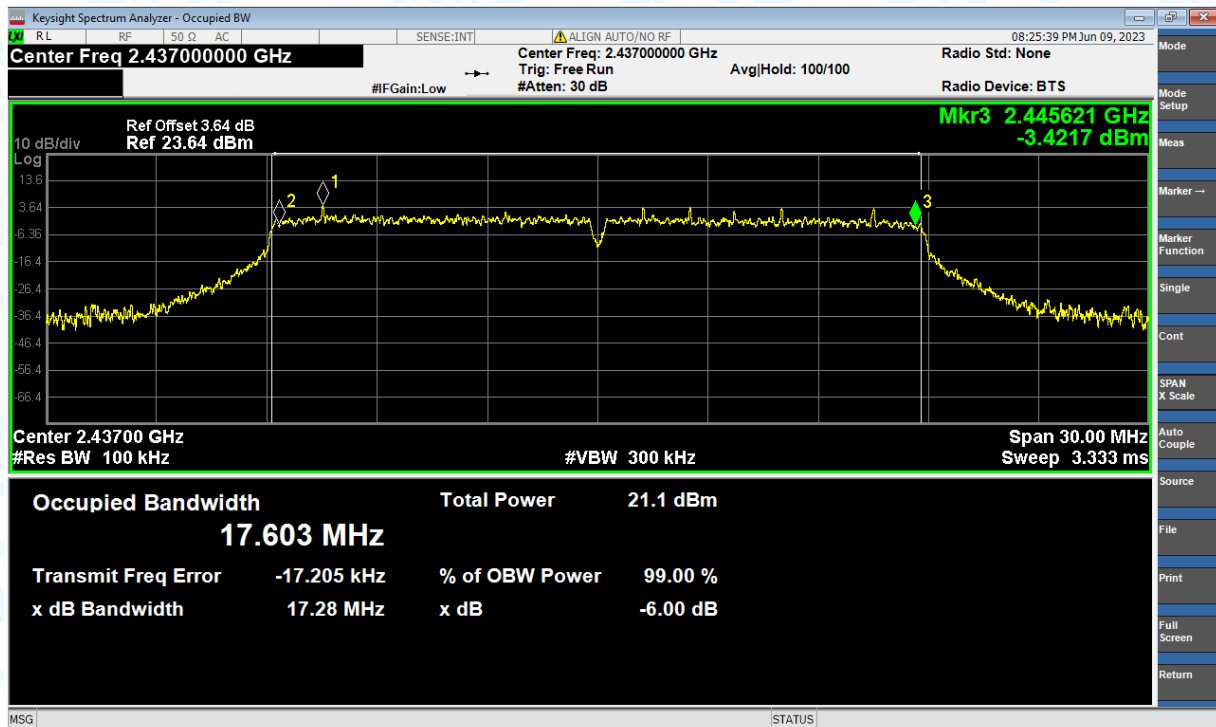
-6dB Bandwidth NVNT g 2462MHz Ant1

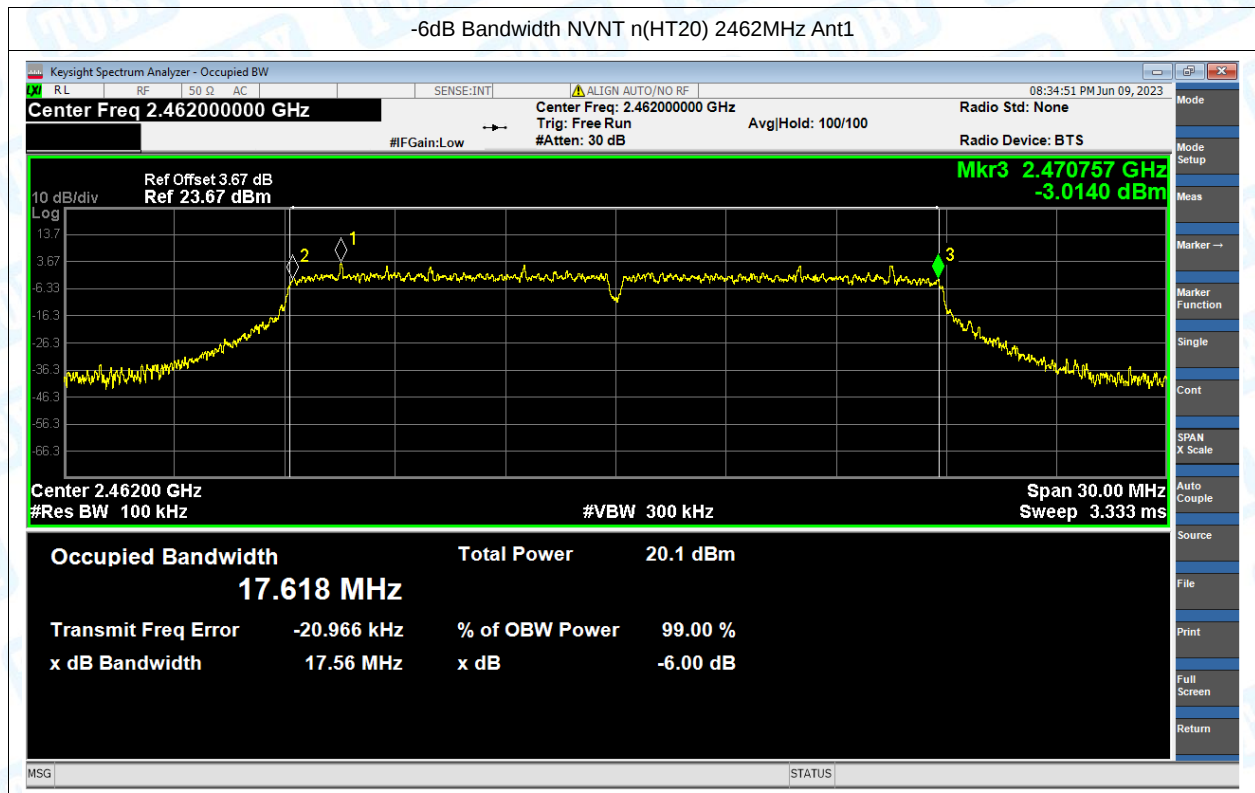


-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



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



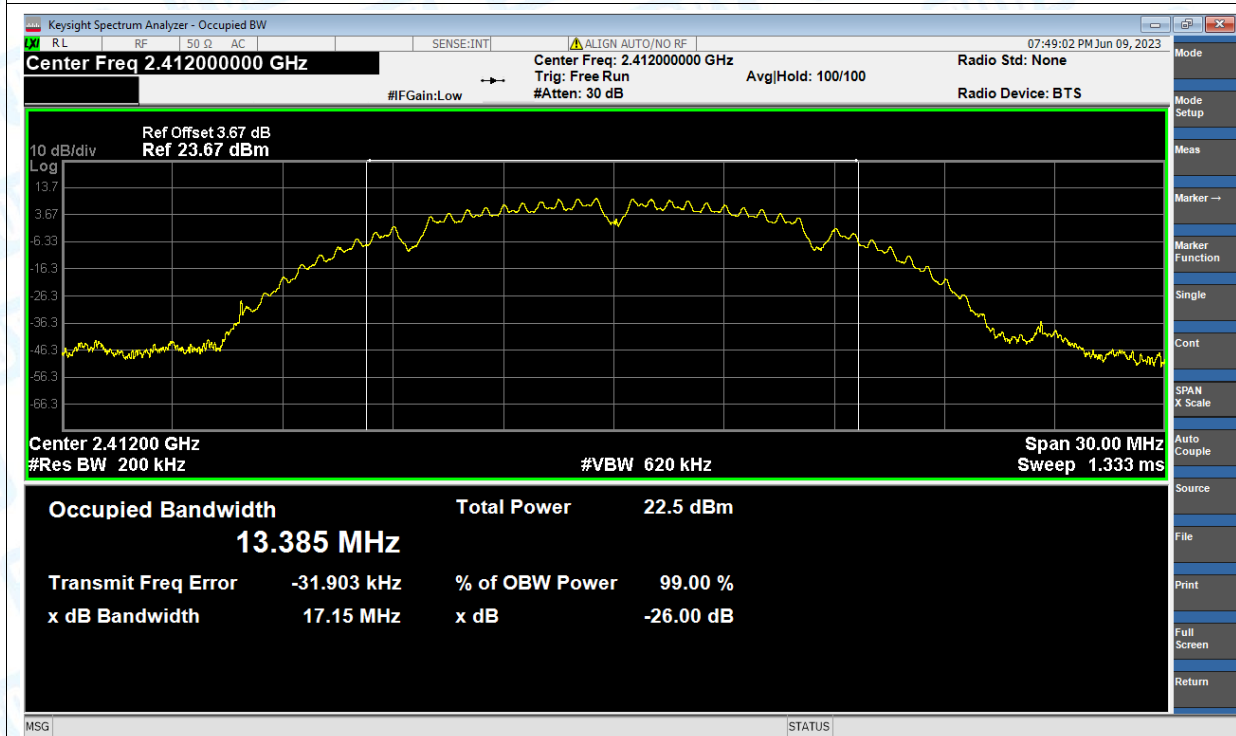


4. Occupied Channel Bandwidth

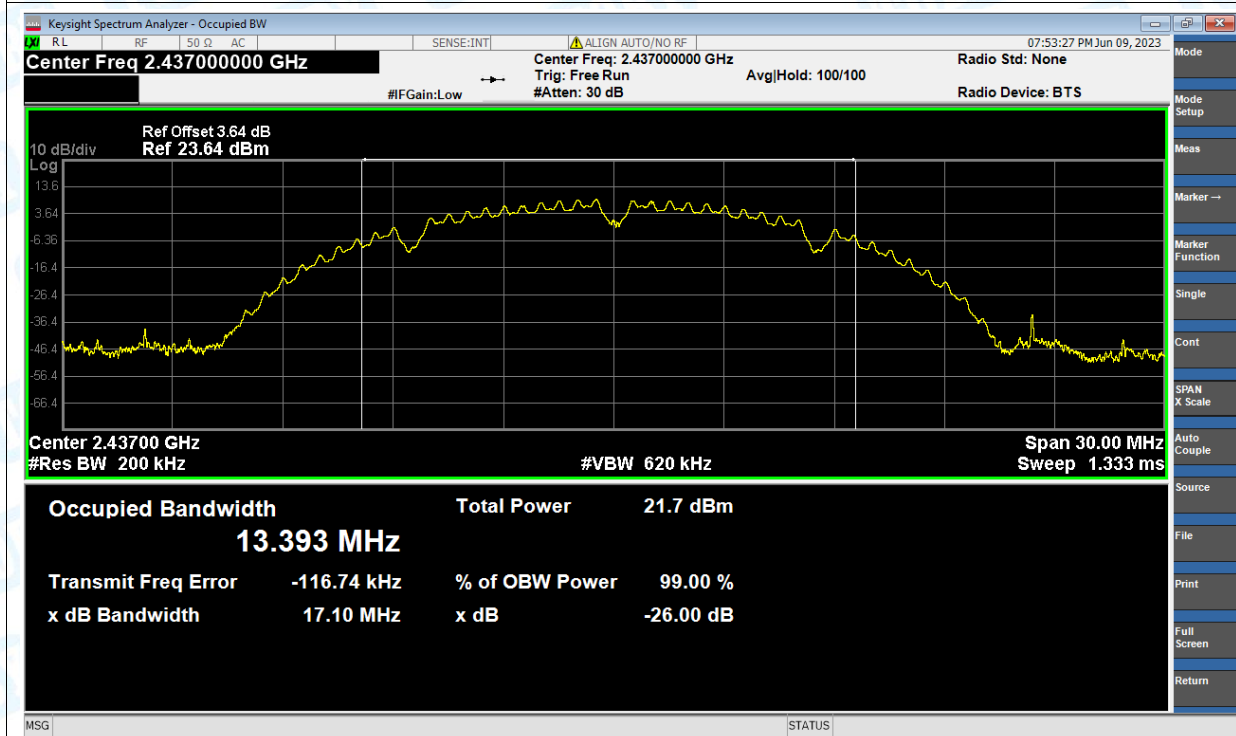
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.385
NVNT	b	2437	Ant1	13.393
NVNT	b	2462	Ant1	14.006
NVNT	g	2412	Ant1	16.609
NVNT	g	2437	Ant1	16.561
NVNT	g	2462	Ant1	16.577
NVNT	n(HT20)	2412	Ant1	17.677
NVNT	n(HT20)	2437	Ant1	17.666
NVNT	n(HT20)	2462	Ant1	17.69

Test Graphs

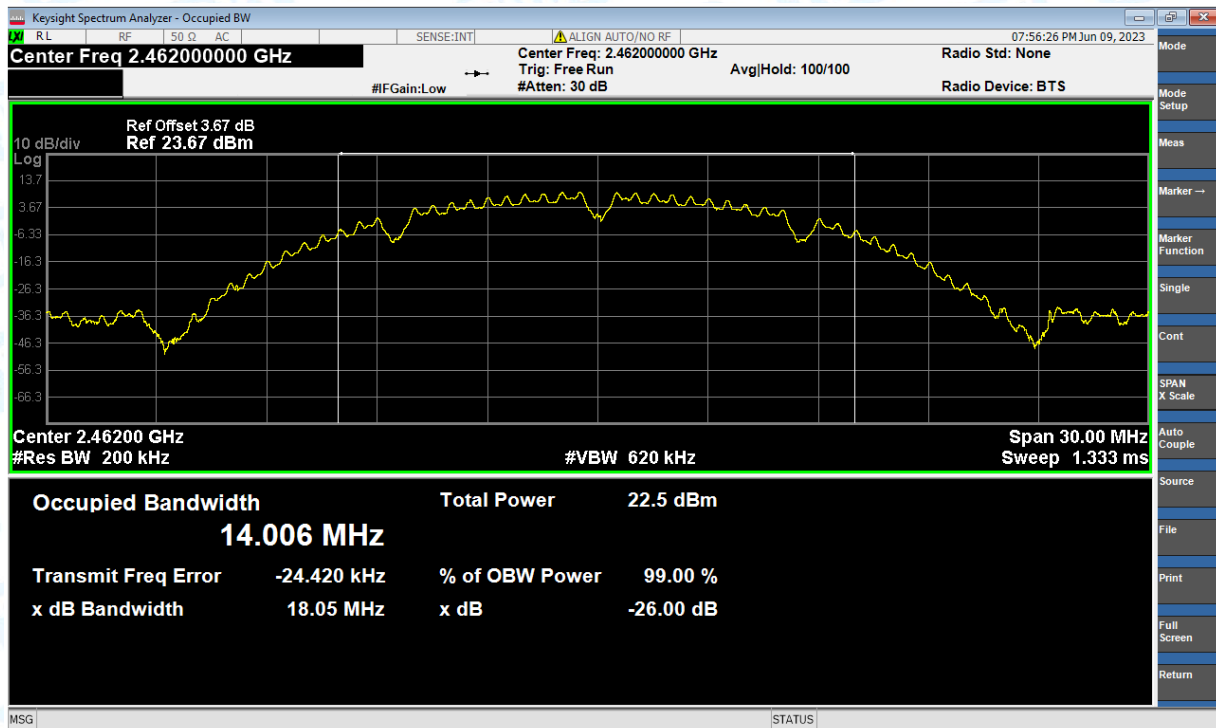
OBW NVNT b 2412MHz Ant1



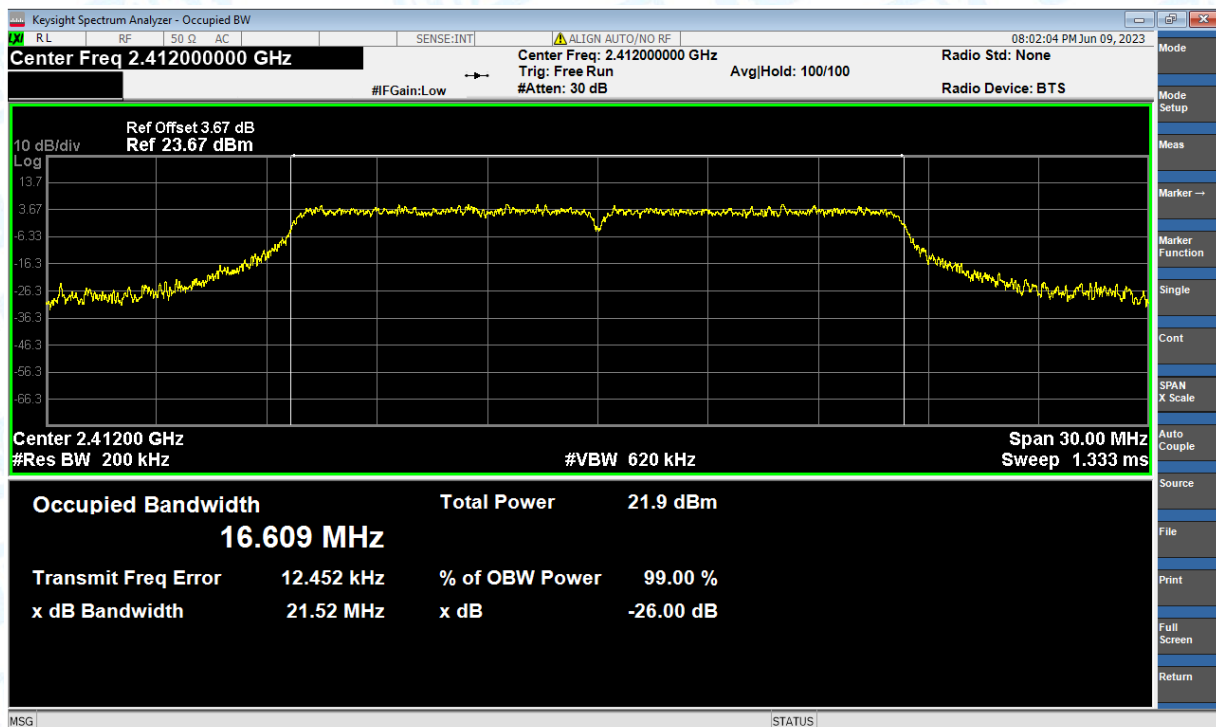
OBW NVNT b 2437MHz Ant1



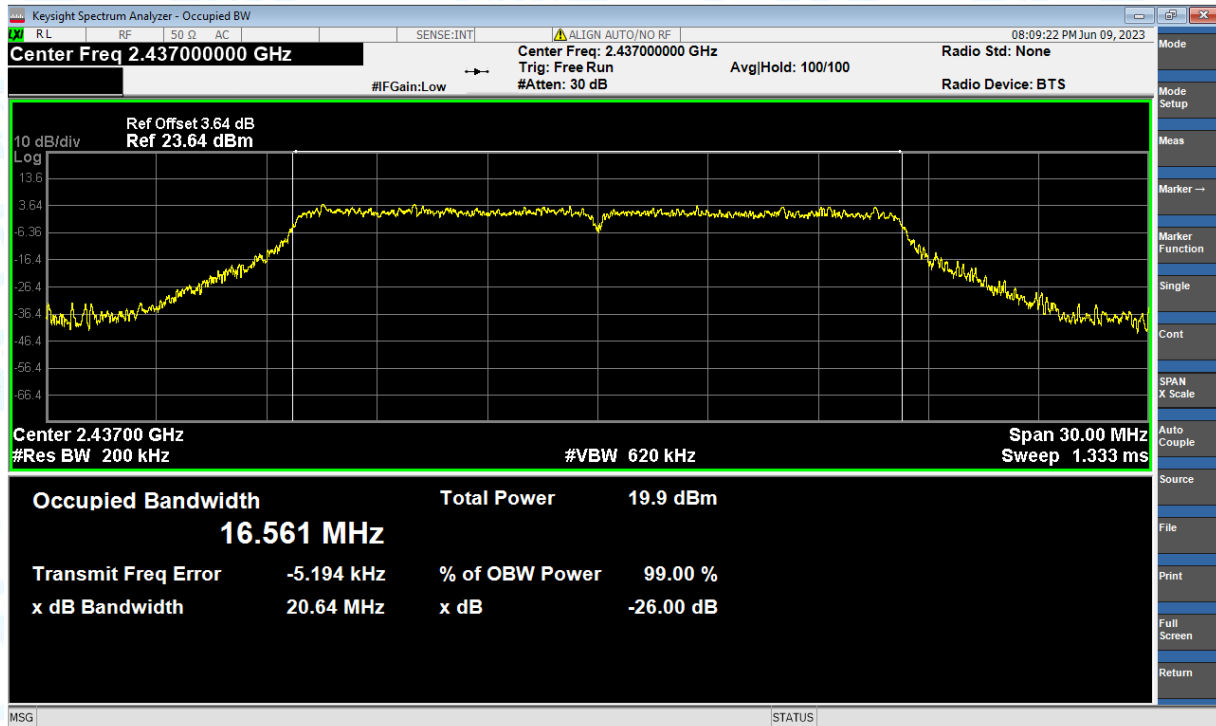
OBW NVNT b 2462MHz Ant1



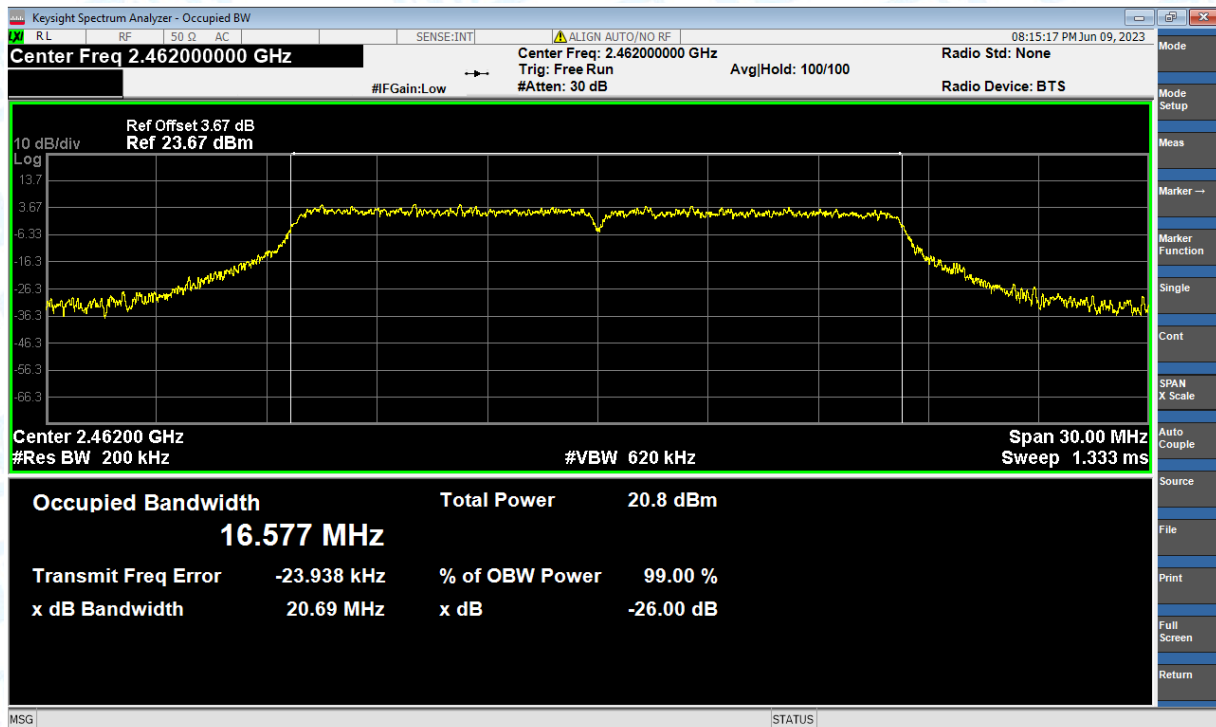
OBW NVNT g 2412MHz Ant1



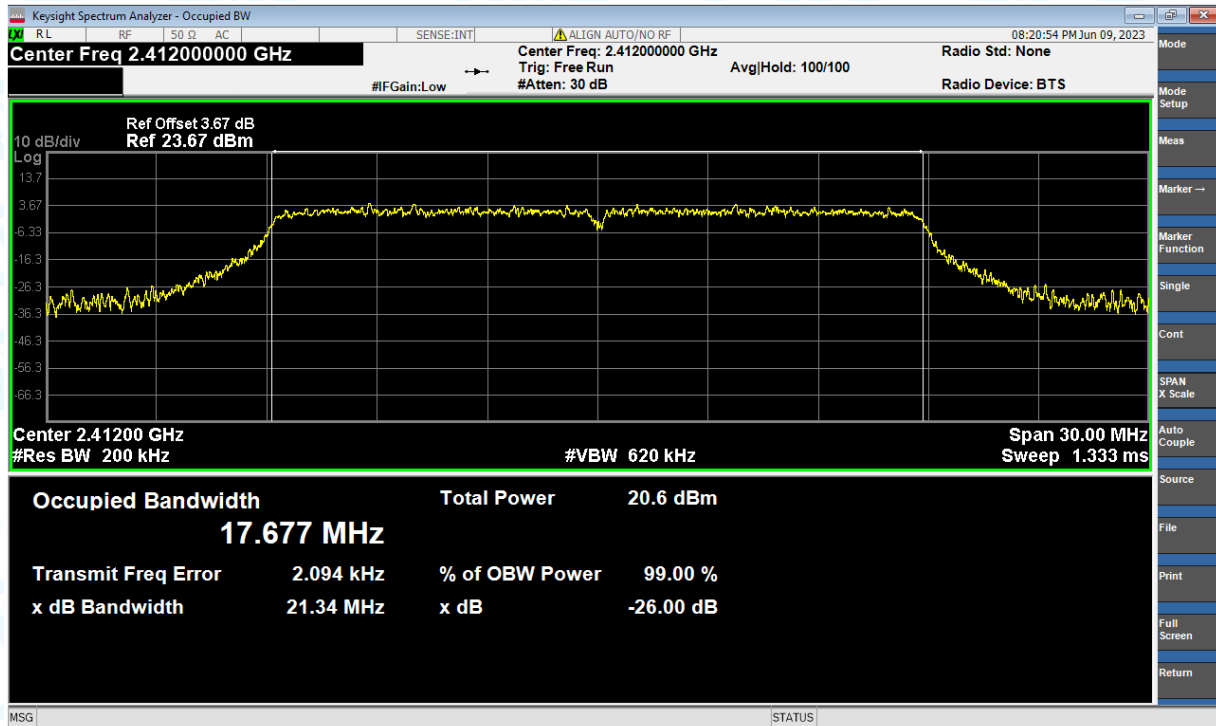
OBW NVNT g 2437MHz Ant1



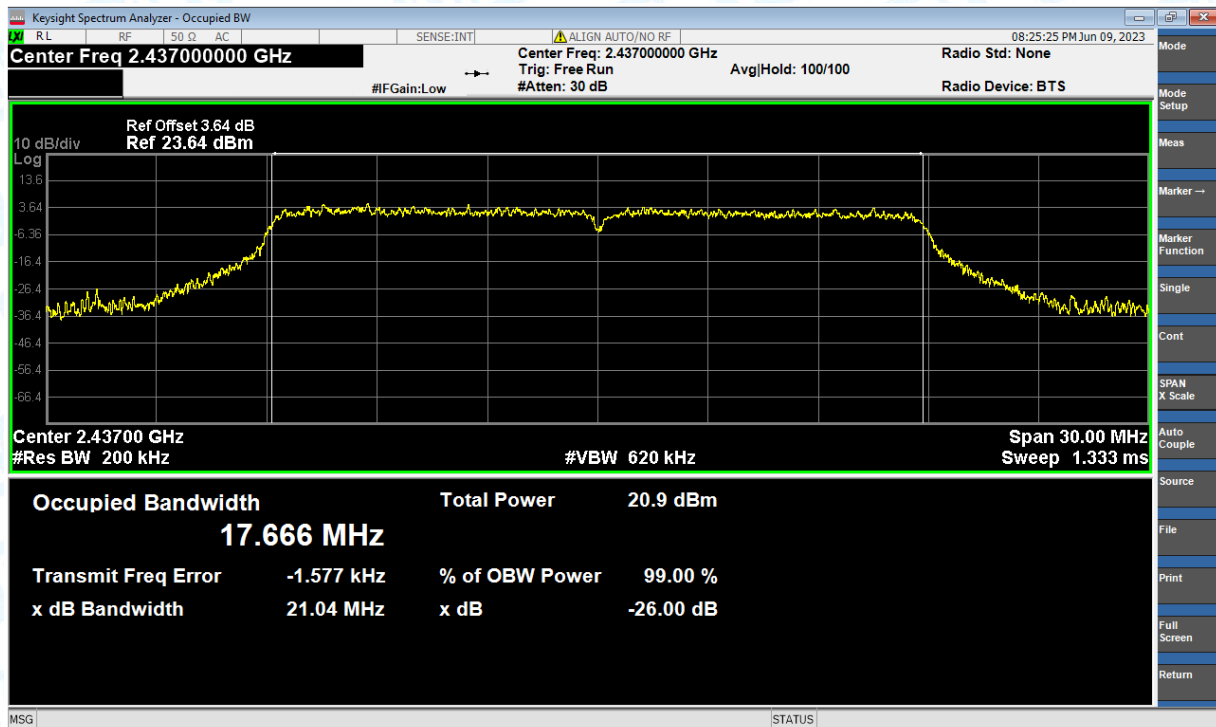
OBW NVNT g 2462MHz Ant1

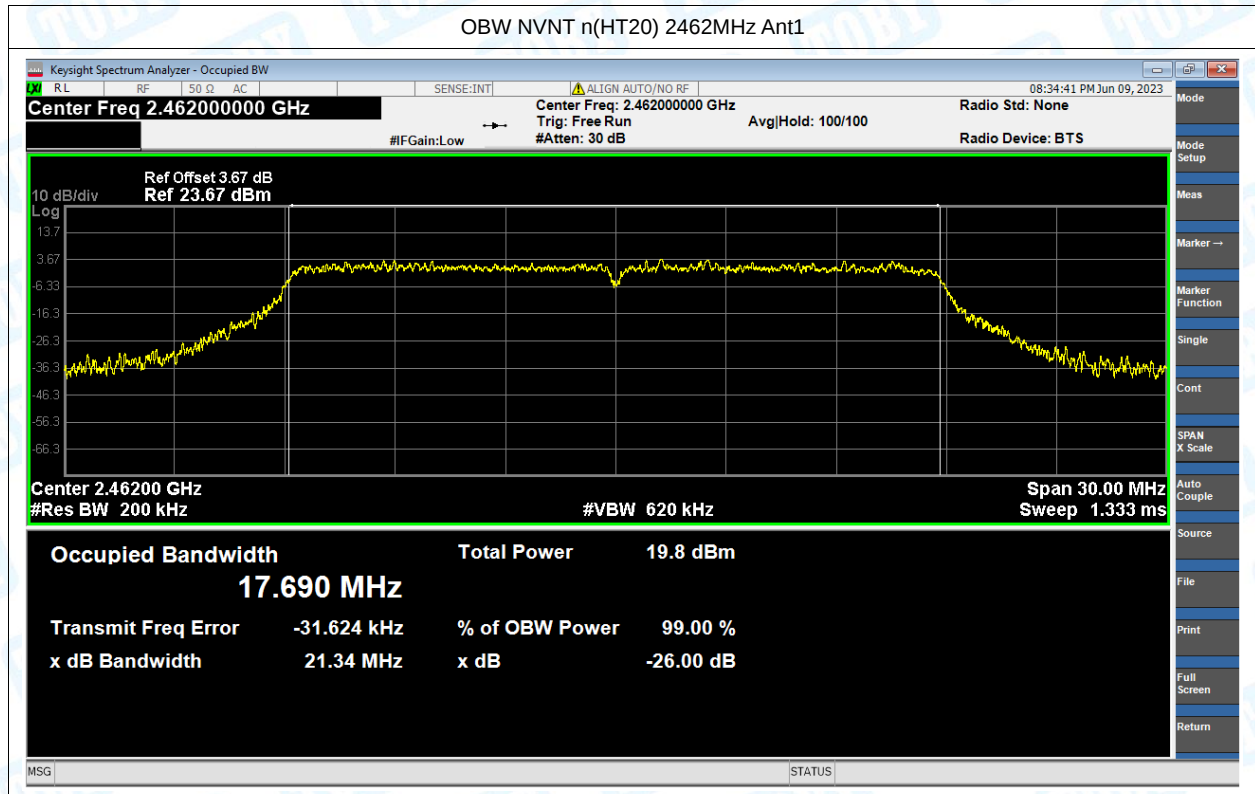


OBW NVNT n(HT20) 2412MHz Ant1



OBW NVNT n(HT20) 2437MHz Ant1



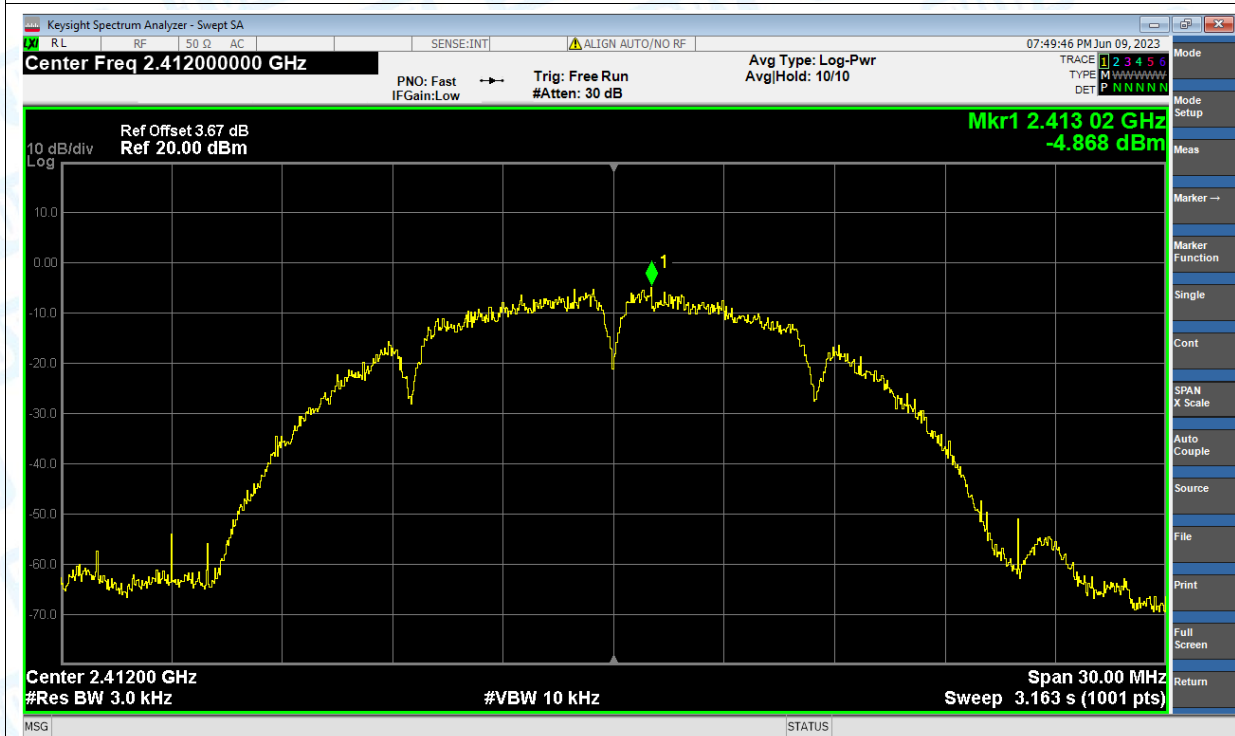


5. Maximum Power Spectral Density Level

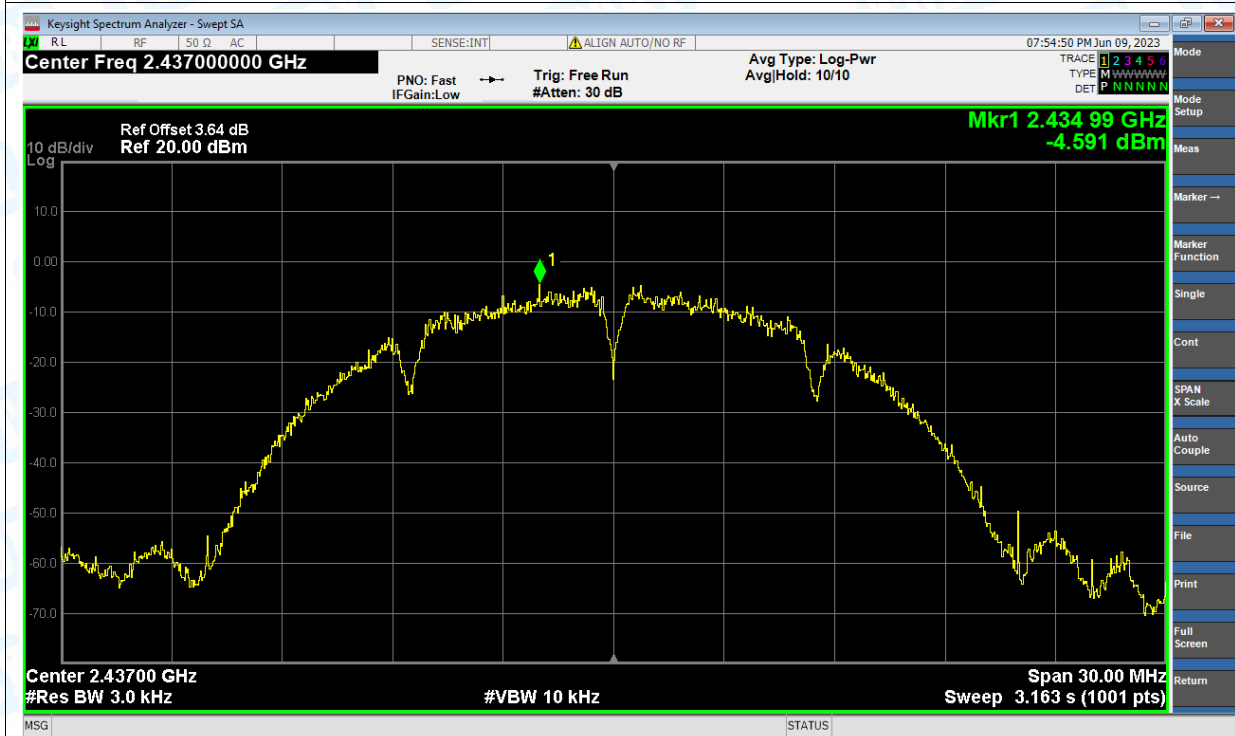
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-4.868	8	Pass
NVNT	b	2437	Ant1	-4.591	8	Pass
NVNT	b	2462	Ant1	-5.048	8	Pass
NVNT	g	2412	Ant1	-8.462	8	Pass
NVNT	g	2437	Ant1	-9.833	8	Pass
NVNT	g	2462	Ant1	-9.574	8	Pass
NVNT	n(HT20)	2412	Ant1	-11.012	8	Pass
NVNT	n(HT20)	2437	Ant1	-8.011	8	Pass
NVNT	n(HT20)	2462	Ant1	-11.764	8	Pass

Test Graphs

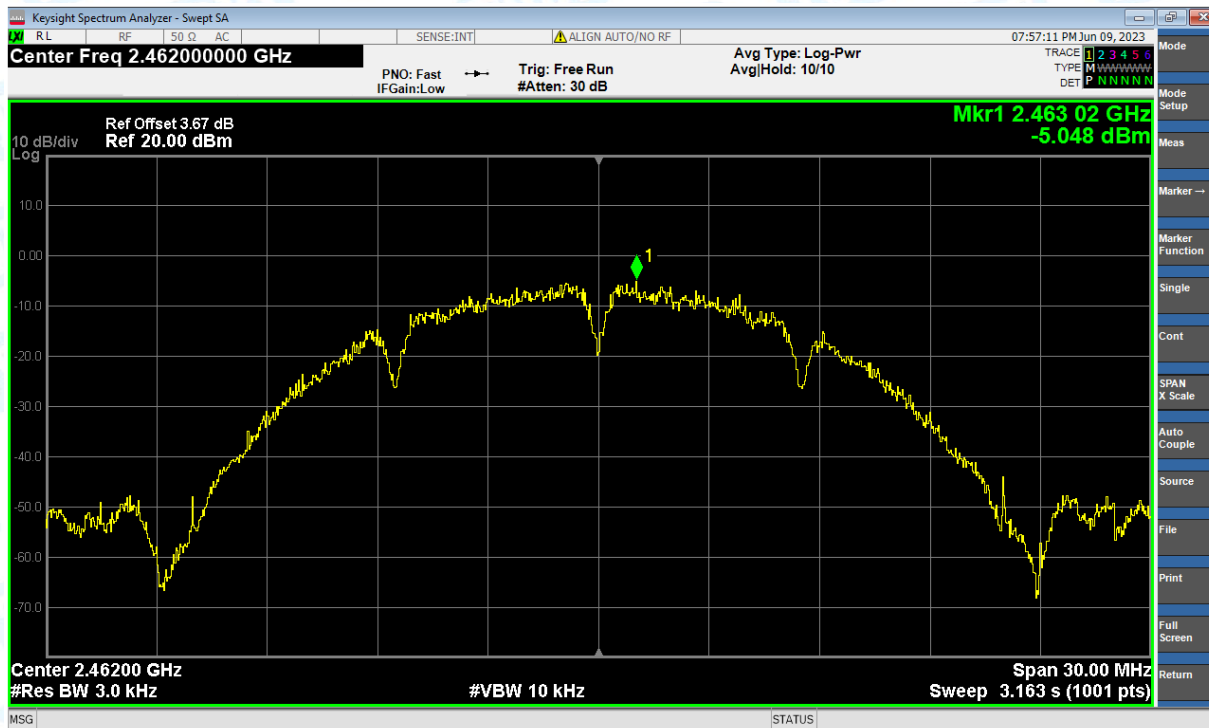
PSD NVNT b 2412MHz Ant1



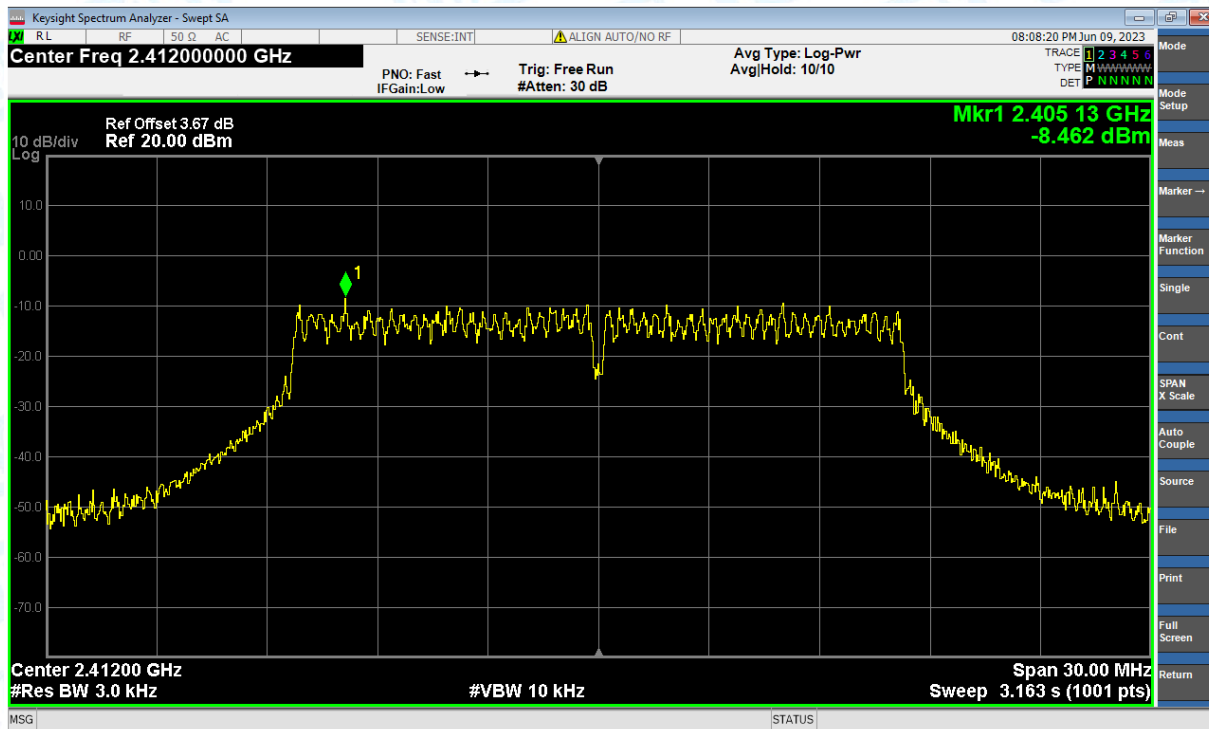
PSD NVNT b 2437MHz Ant1



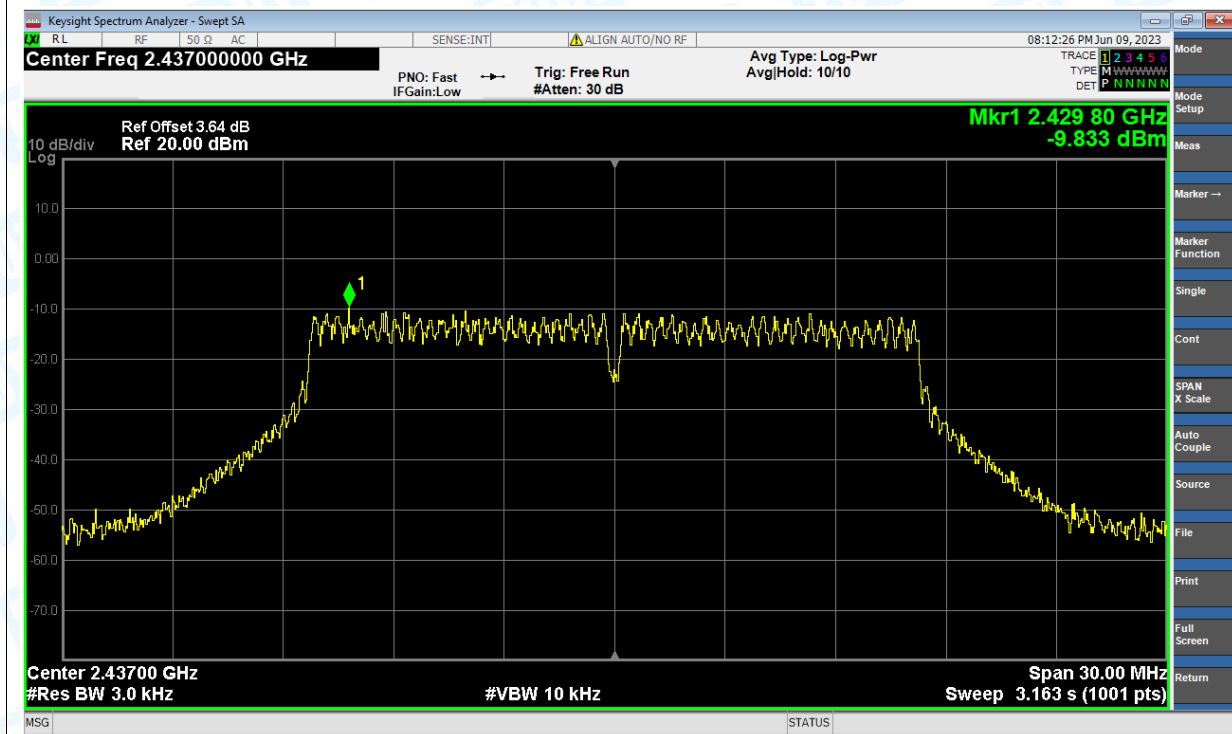
PSD NVNT b 2462MHz Ant1



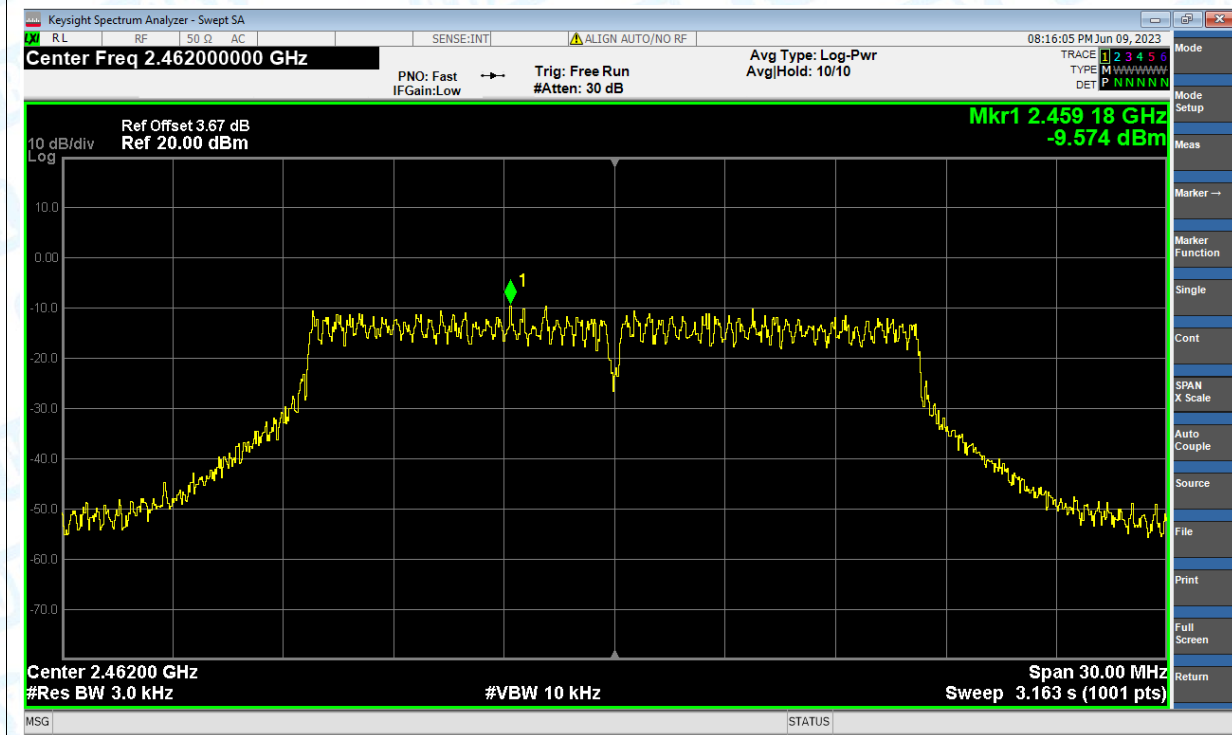
PSD NVNT g 2412MHz Ant1



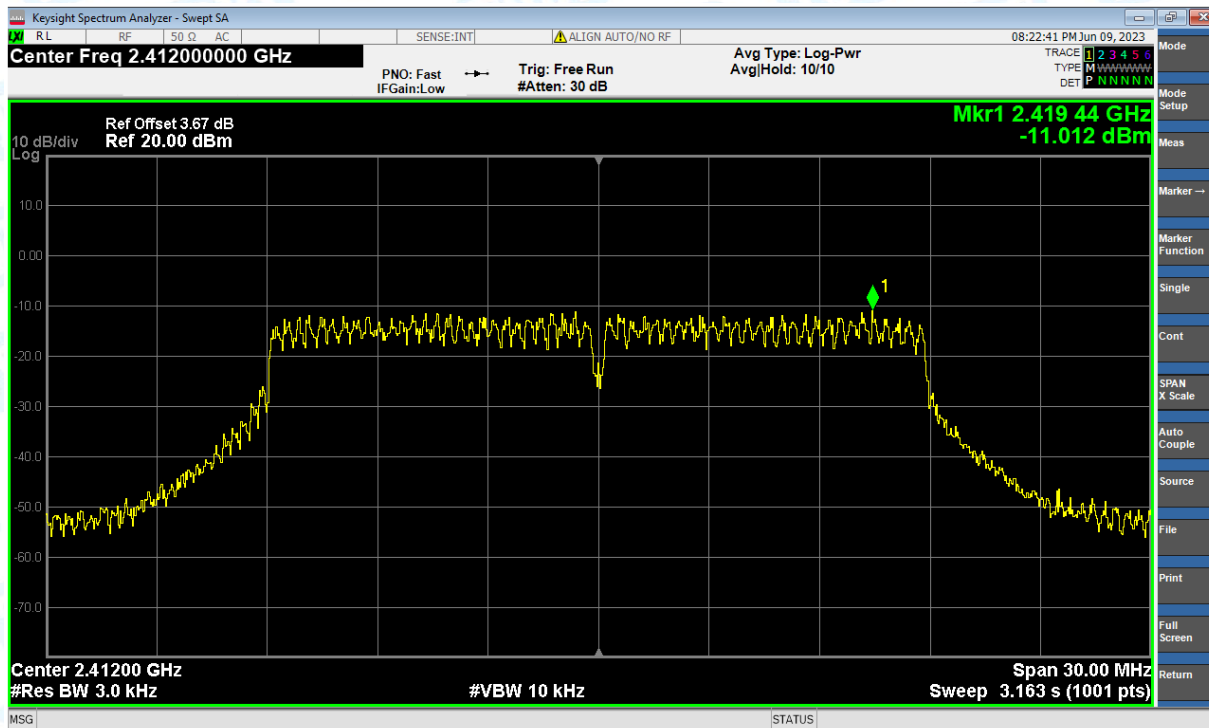
PSD NVNT g 2437MHz Ant1



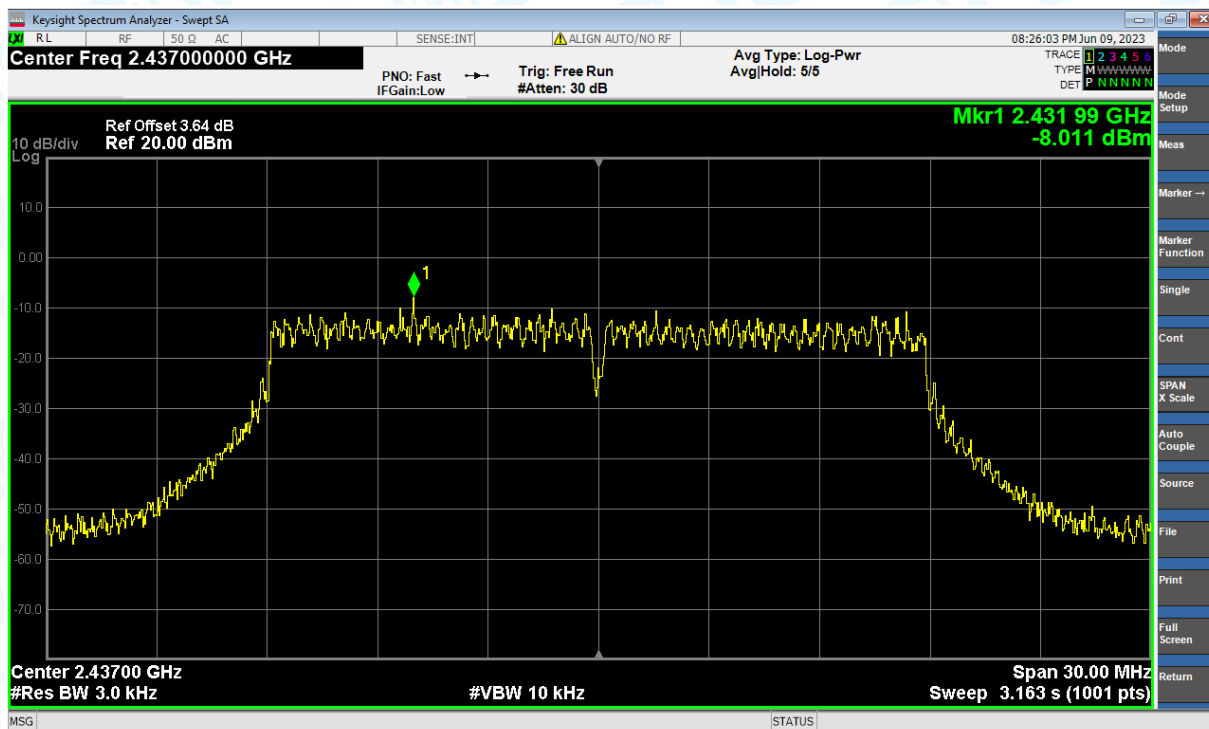
PSD NVNT g 2462MHz Ant1

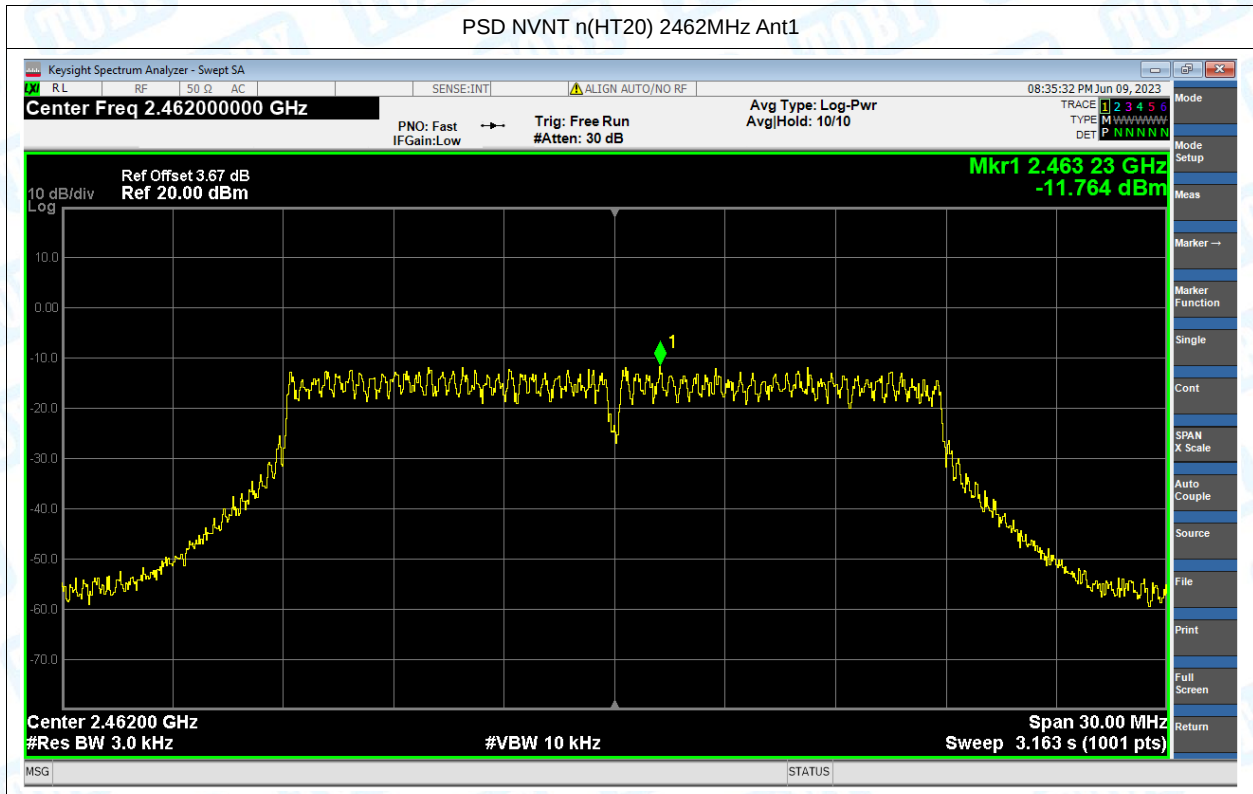


PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1



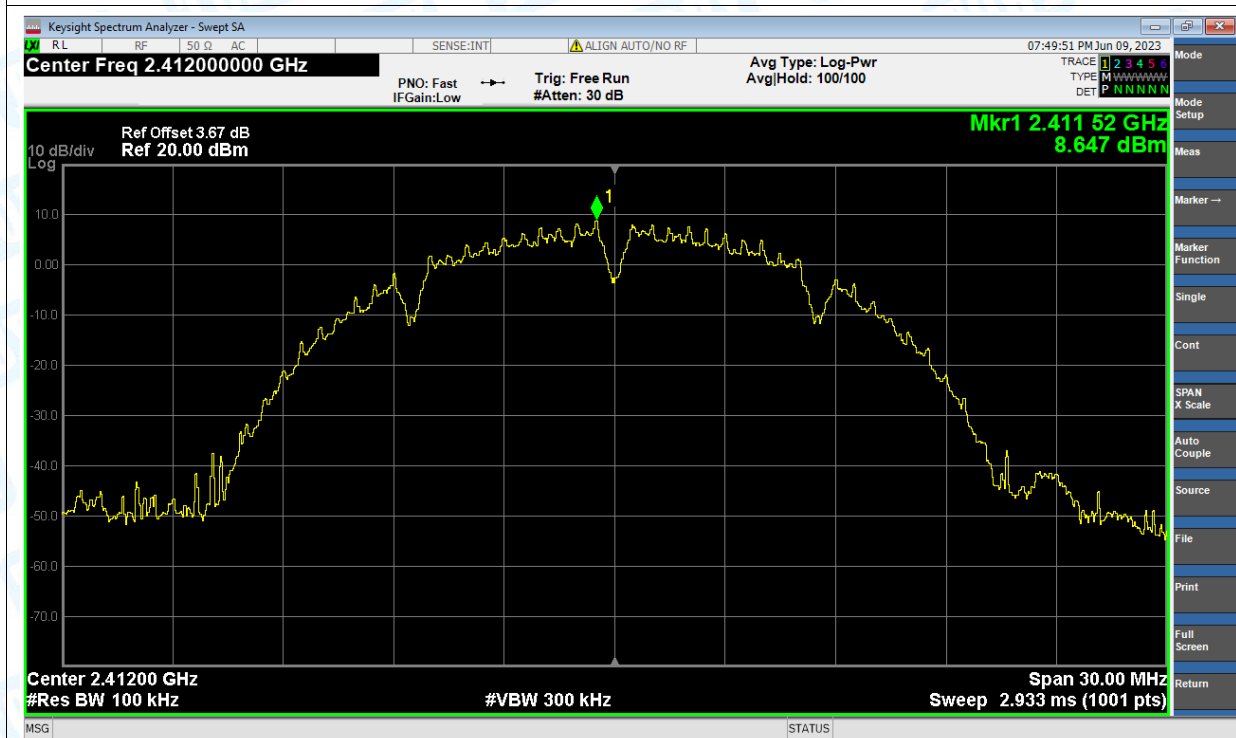


6. Band Edge

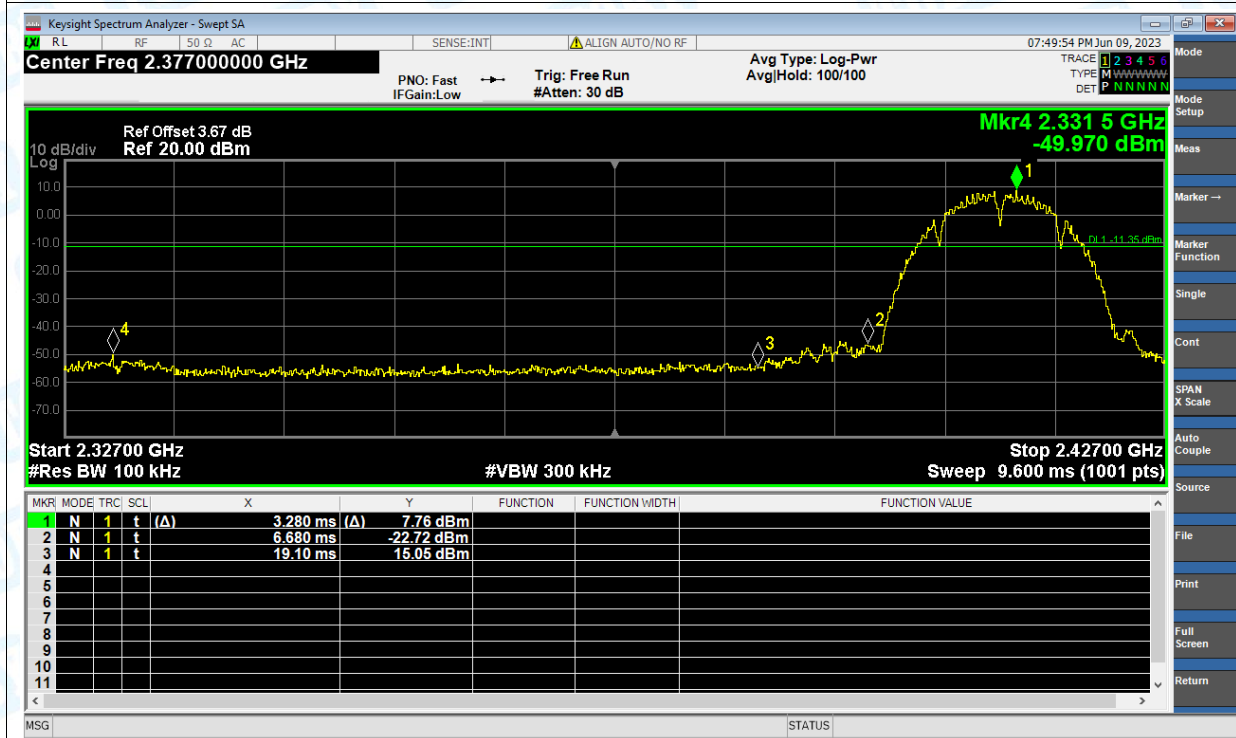
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-58.62	-20	Pass
NVNT	b	2462	Ant1	-48.94	-20	Pass
NVNT	g	2412	Ant1	-43.02	-20	Pass
NVNT	g	2462	Ant1	-42.99	-20	Pass
NVNT	n(HT20)	2412	Ant1	-44.27	-20	Pass
NVNT	n(HT20)	2462	Ant1	-44.34	-20	Pass

Test Graphs

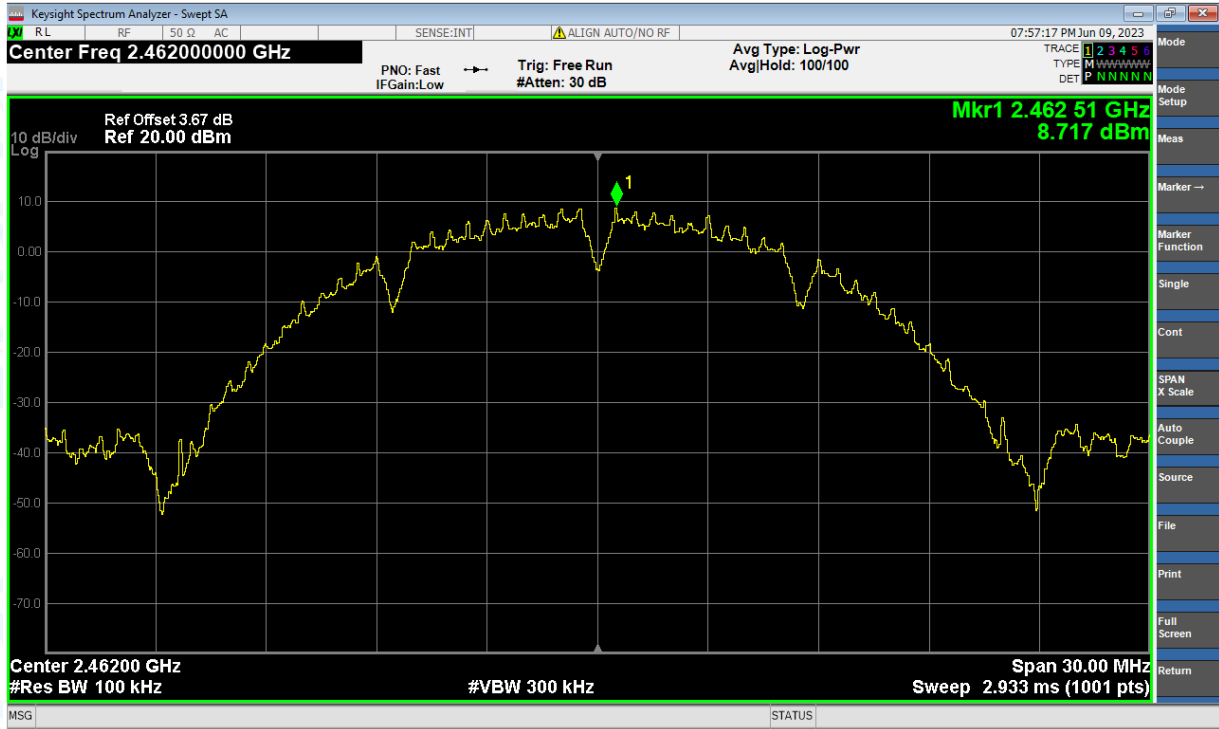
Band Edge NVNT b 2412MHz Ant1 Ref



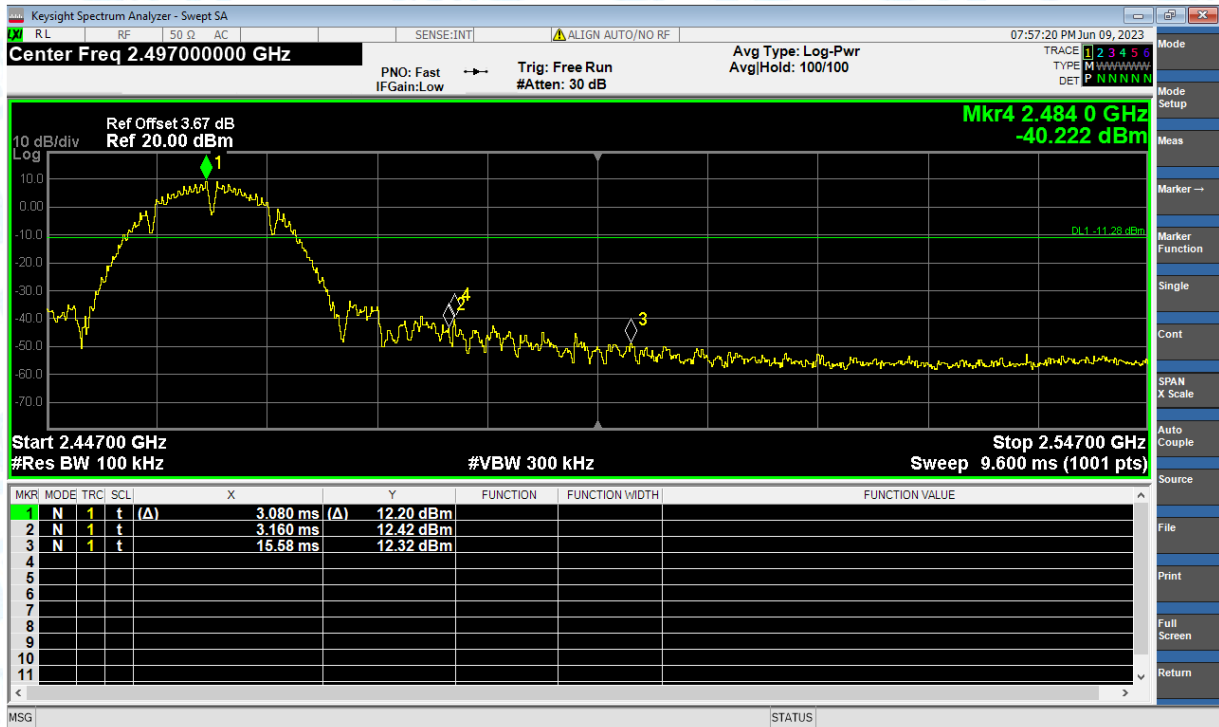
Band Edge NVNT b 2412MHz Ant1 Emission



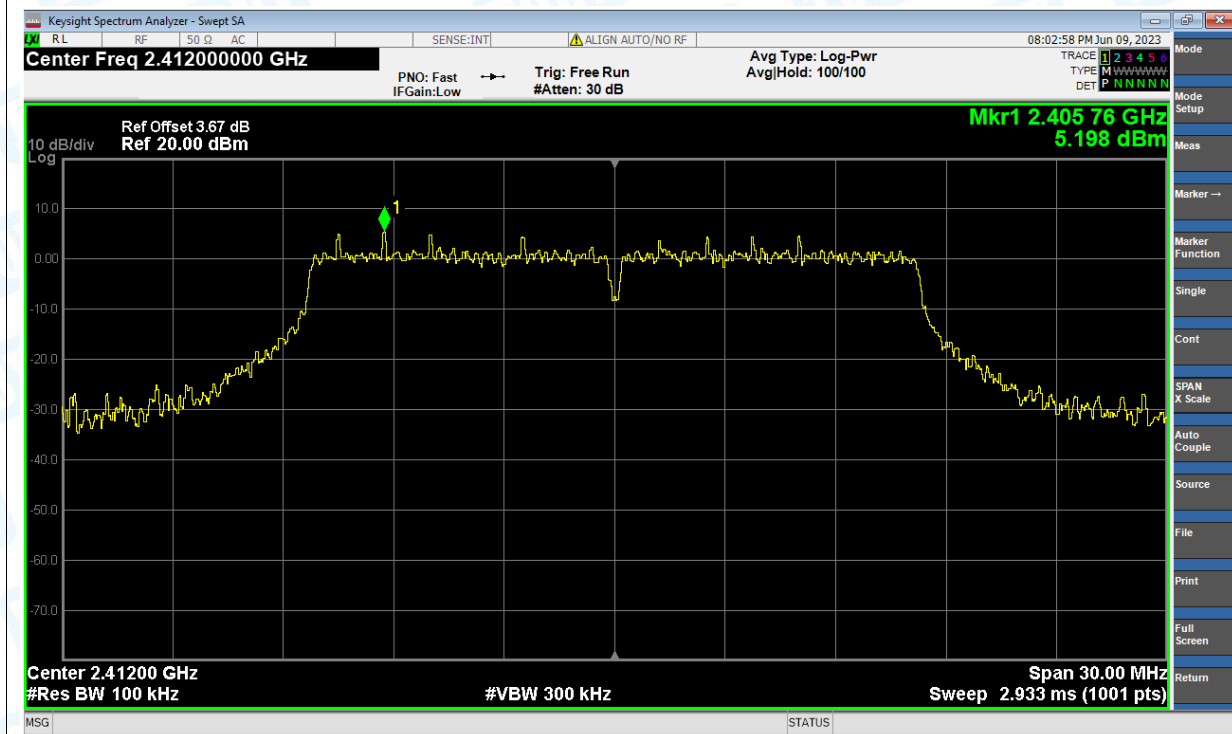
Band Edge NVNT b 2462MHz Ant1 Ref



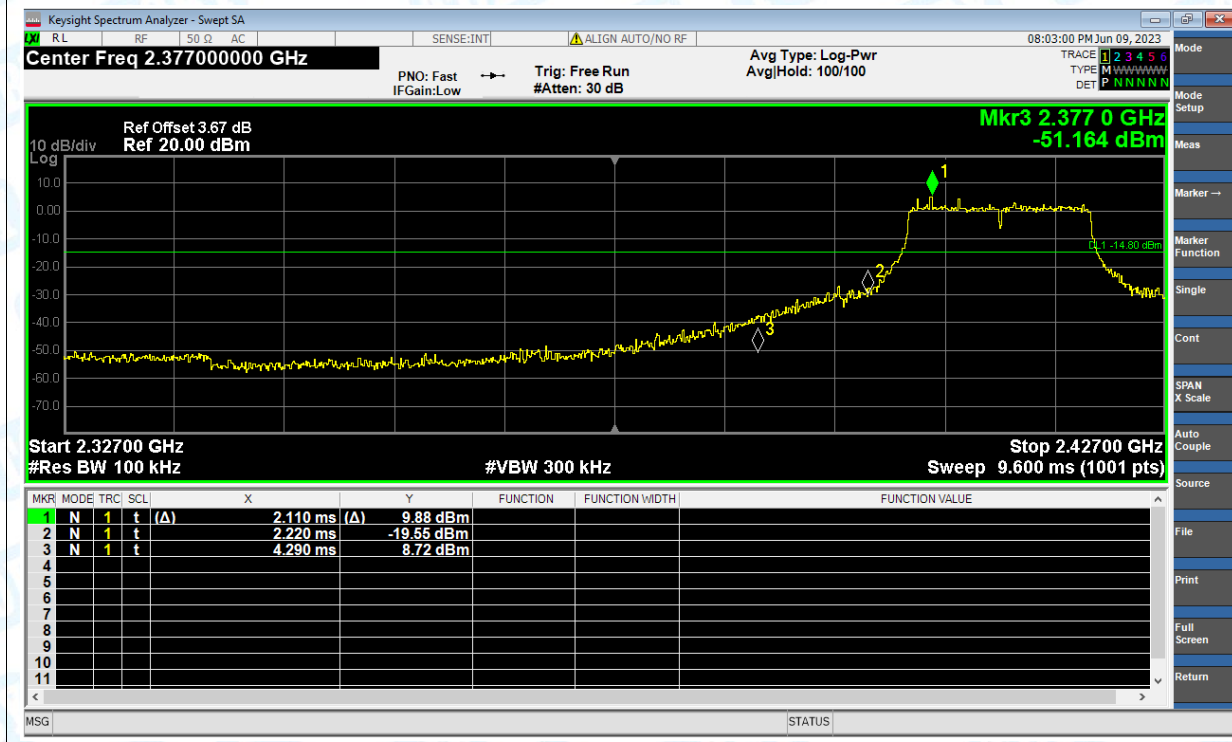
Band Edge NVNT b 2462MHz Ant1 Emission



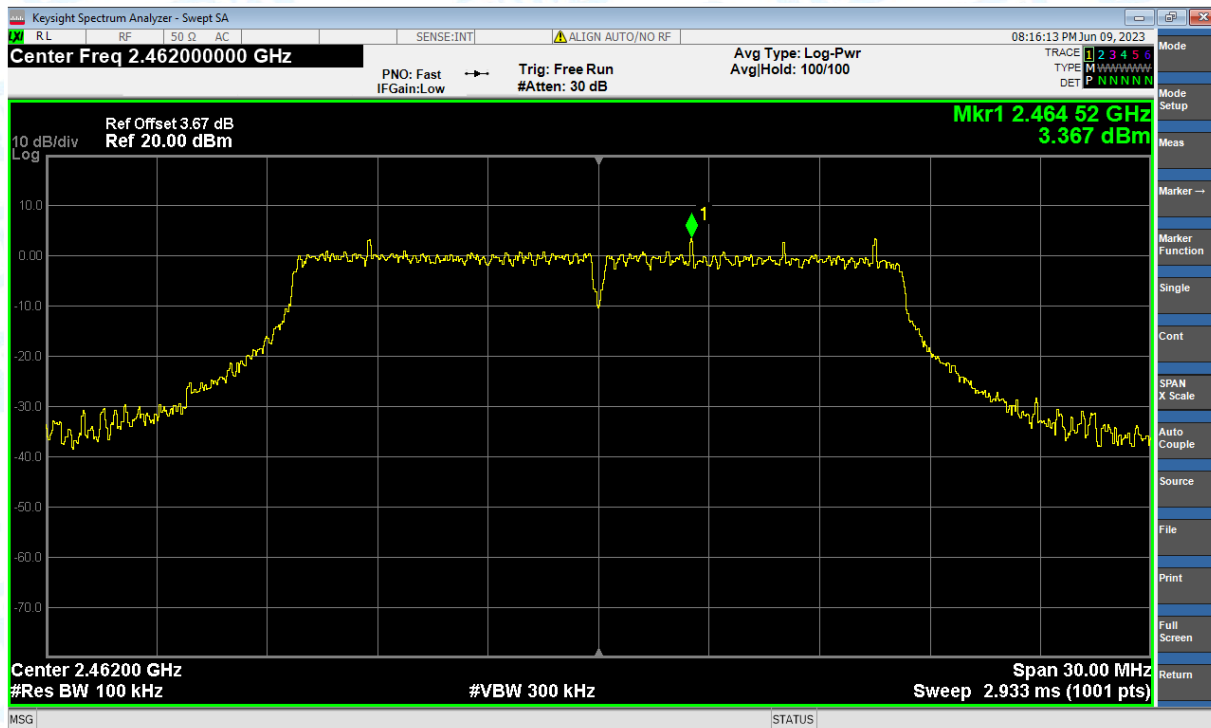
Band Edge NVNT g 2412MHz Ant1 Ref



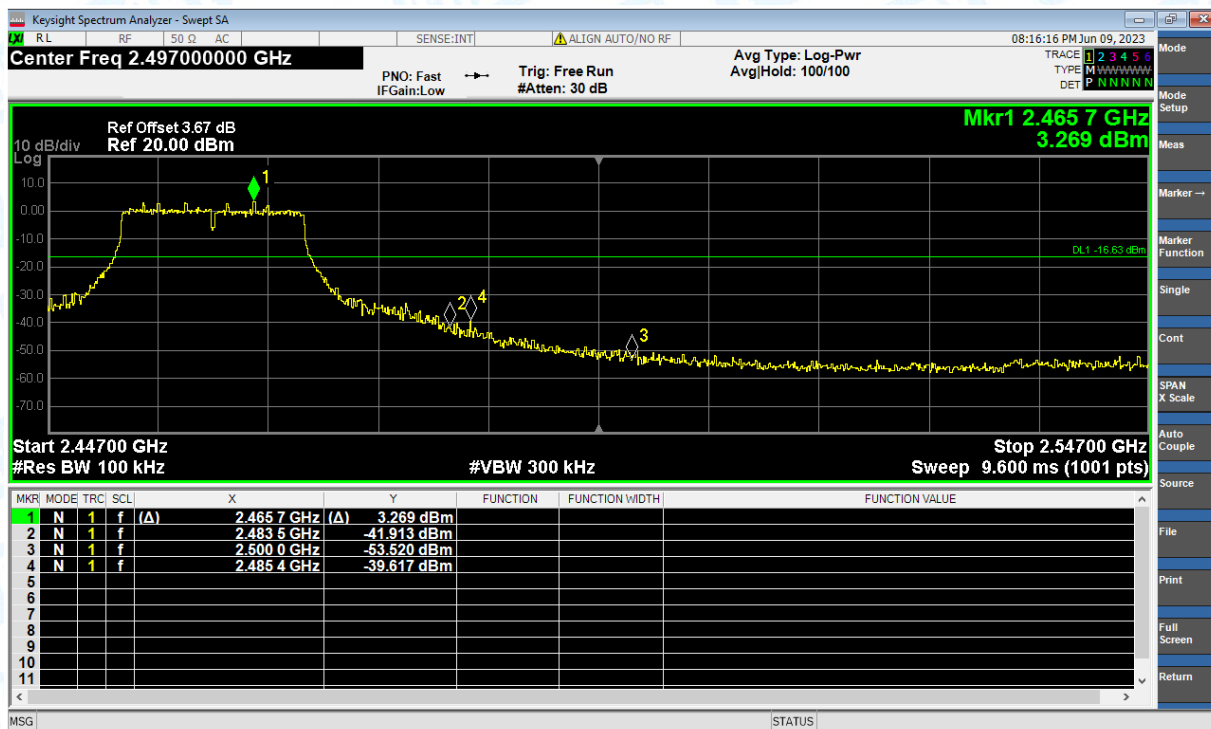
Band Edge NVNT g 2412MHz Ant1 Emission



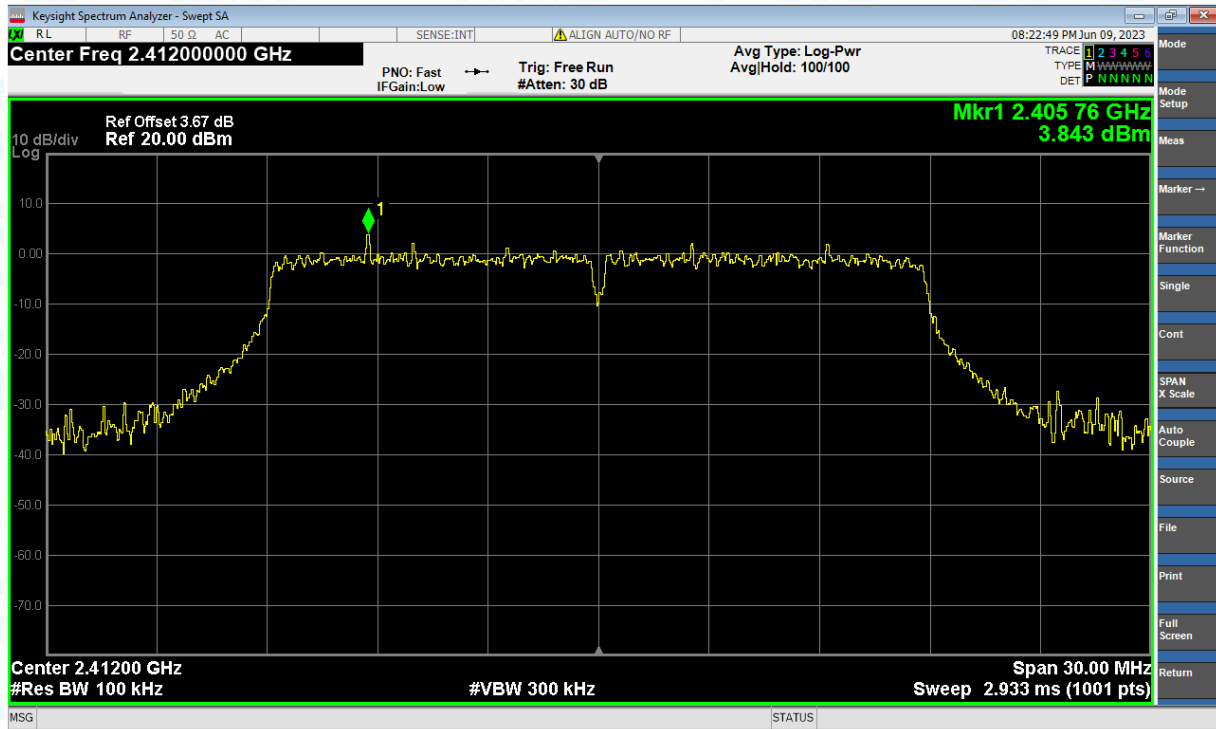
Band Edge NVNT g 2462MHz Ant1 Ref



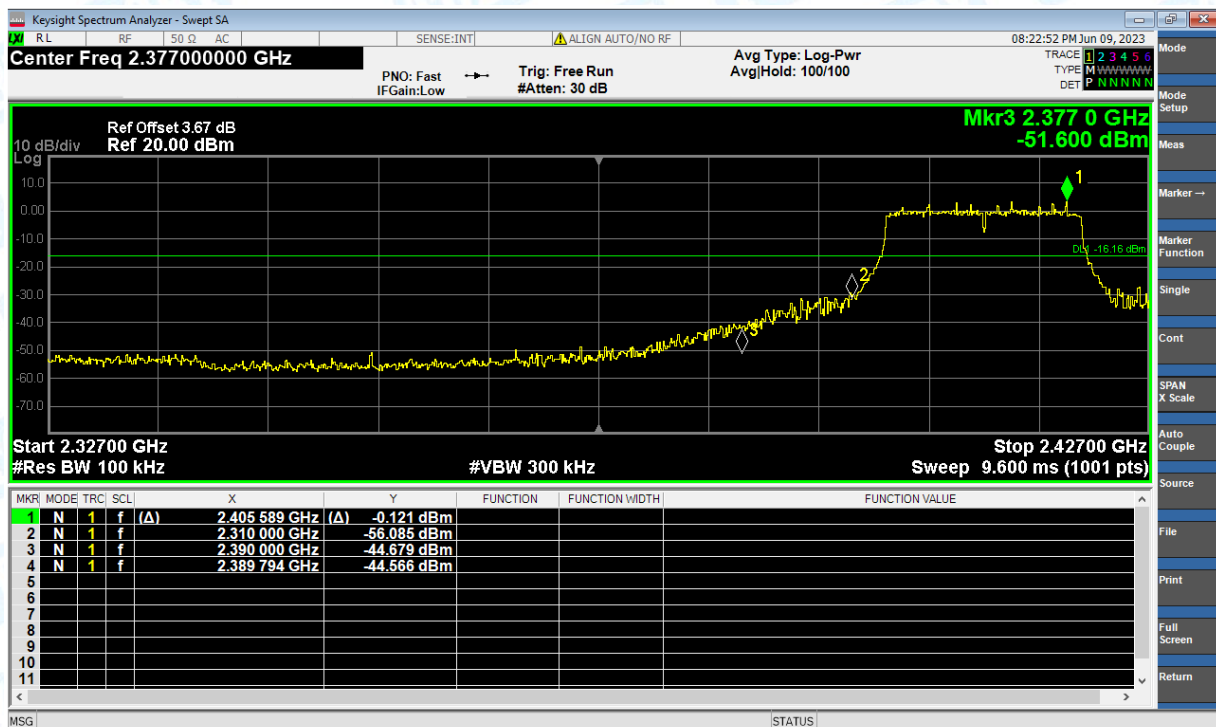
Band Edge NVNT g 2462MHz Ant1 Emission



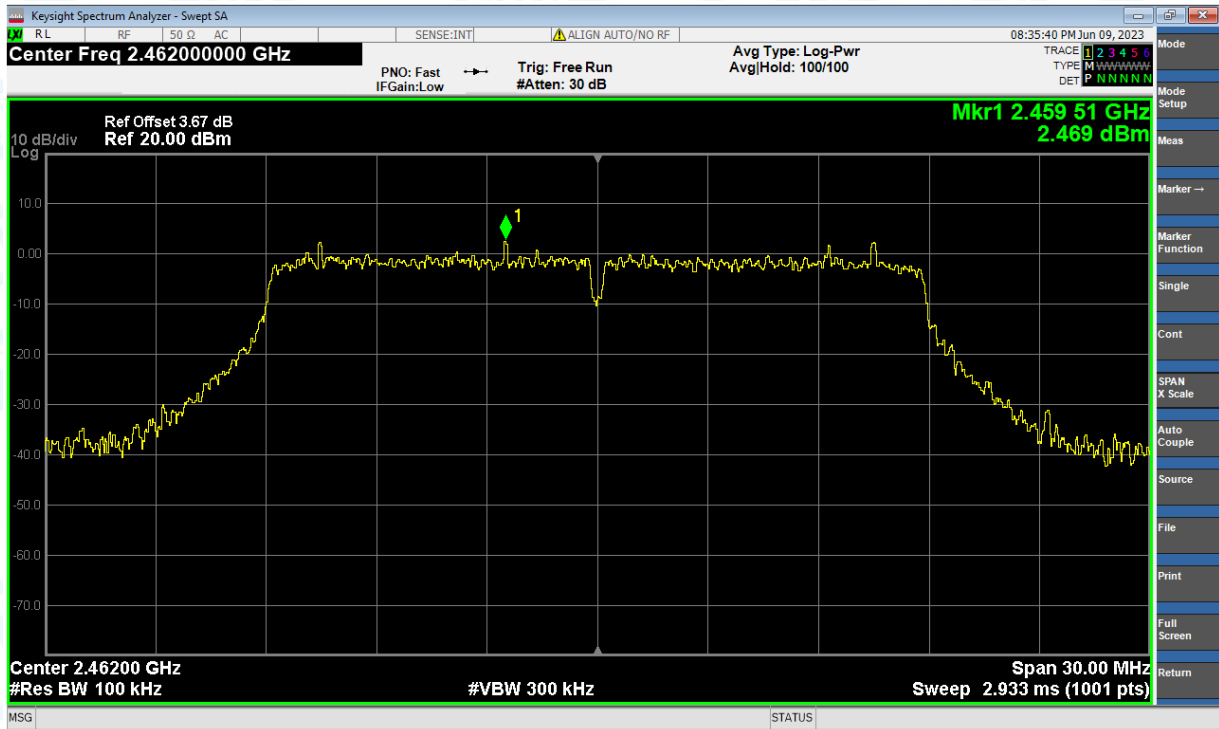
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



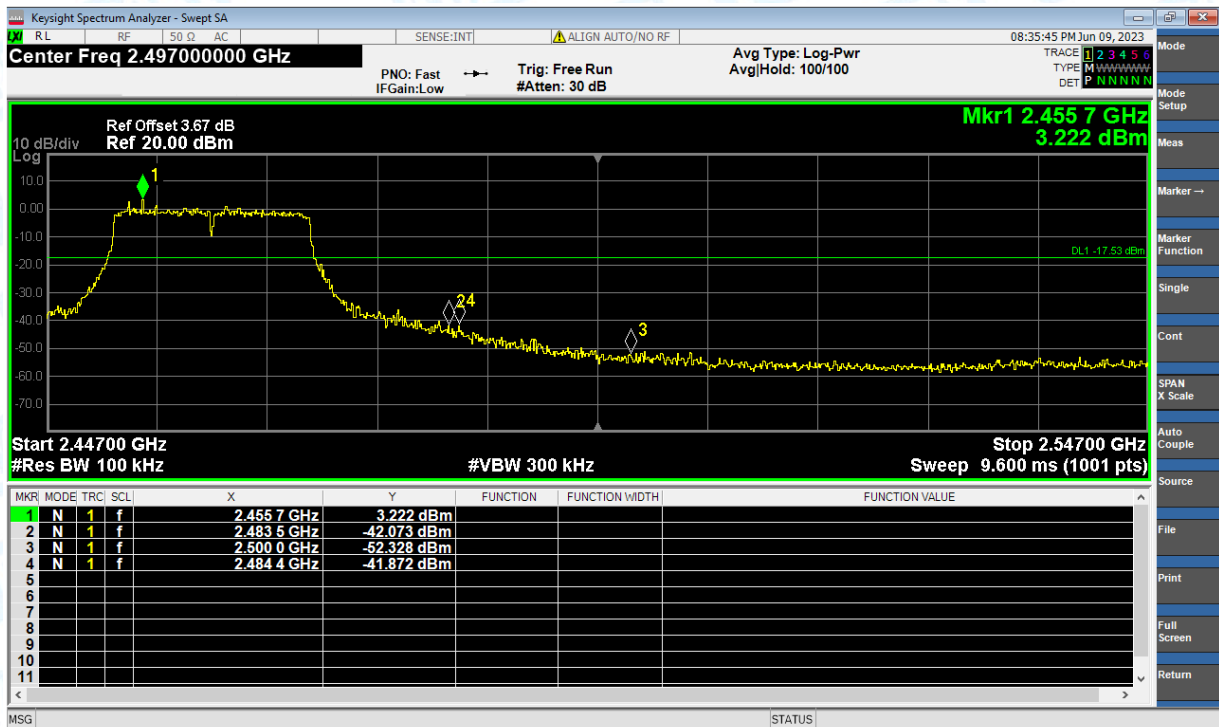
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



7. Conducted RF Spurious Emission

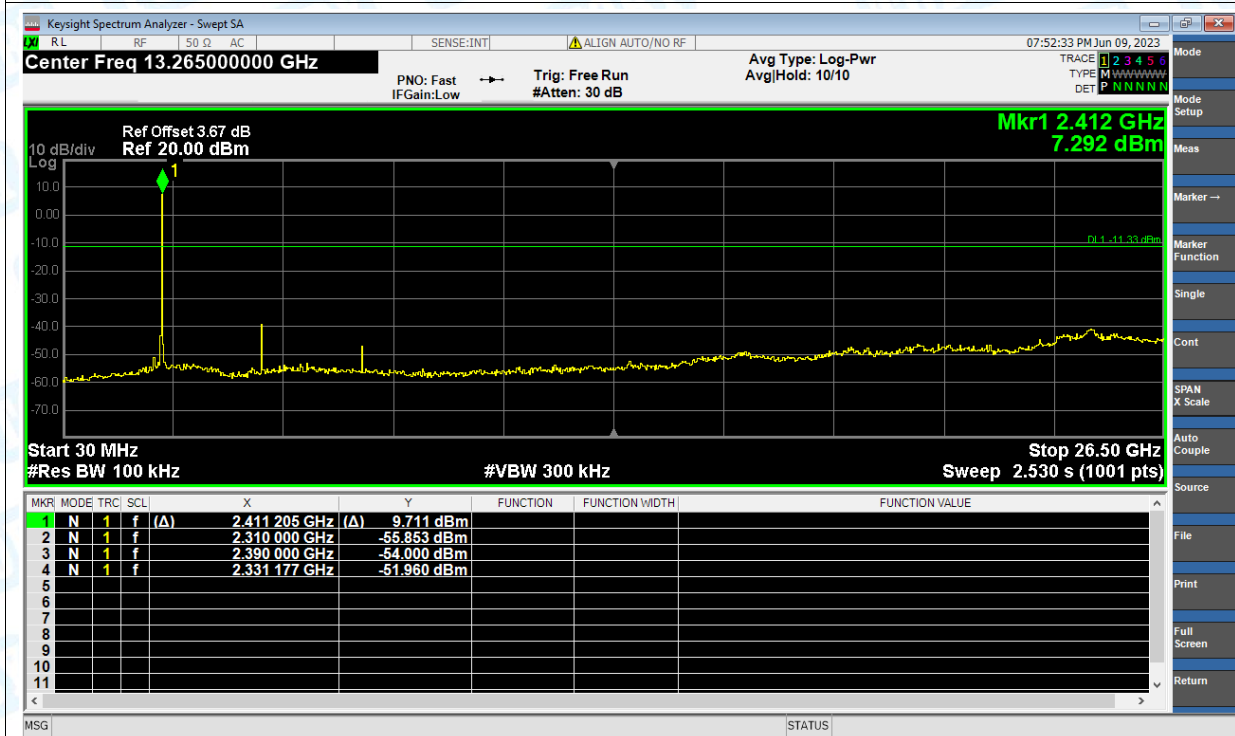
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.7	-20	Pass
NVNT	b	2437	Ant1	-47.96	-20	Pass
NVNT	b	2462	Ant1	-46.79	-20	Pass
NVNT	g	2412	Ant1	-45.91	-20	Pass
NVNT	g	2437	Ant1	-44.7	-20	Pass
NVNT	g	2462	Ant1	-43.59	-20	Pass
NVNT	n(HT20)	2412	Ant1	-44.03	-20	Pass
NVNT	n(HT20)	2437	Ant1	-45.38	-20	Pass
NVNT	n(HT20)	2462	Ant1	-43.97	-20	Pass

Test Graphs

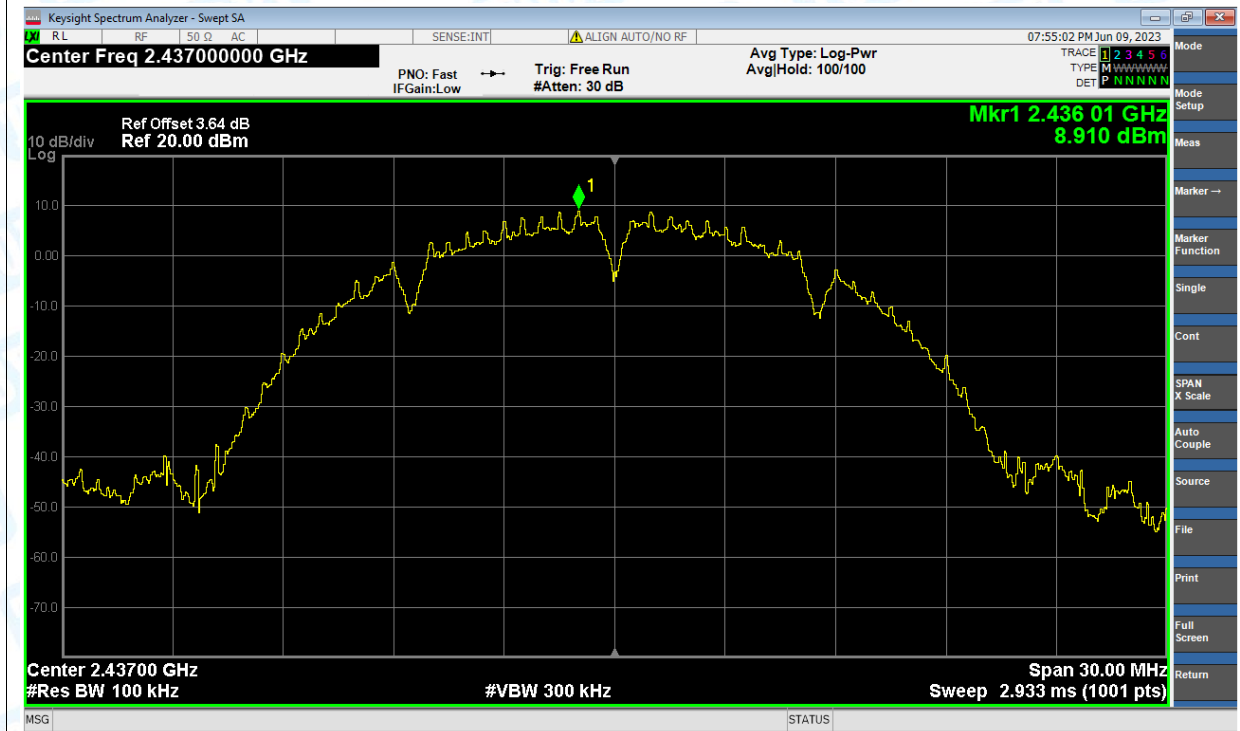
Tx. Spurious NVNT b 2412MHz Ant1 Ref



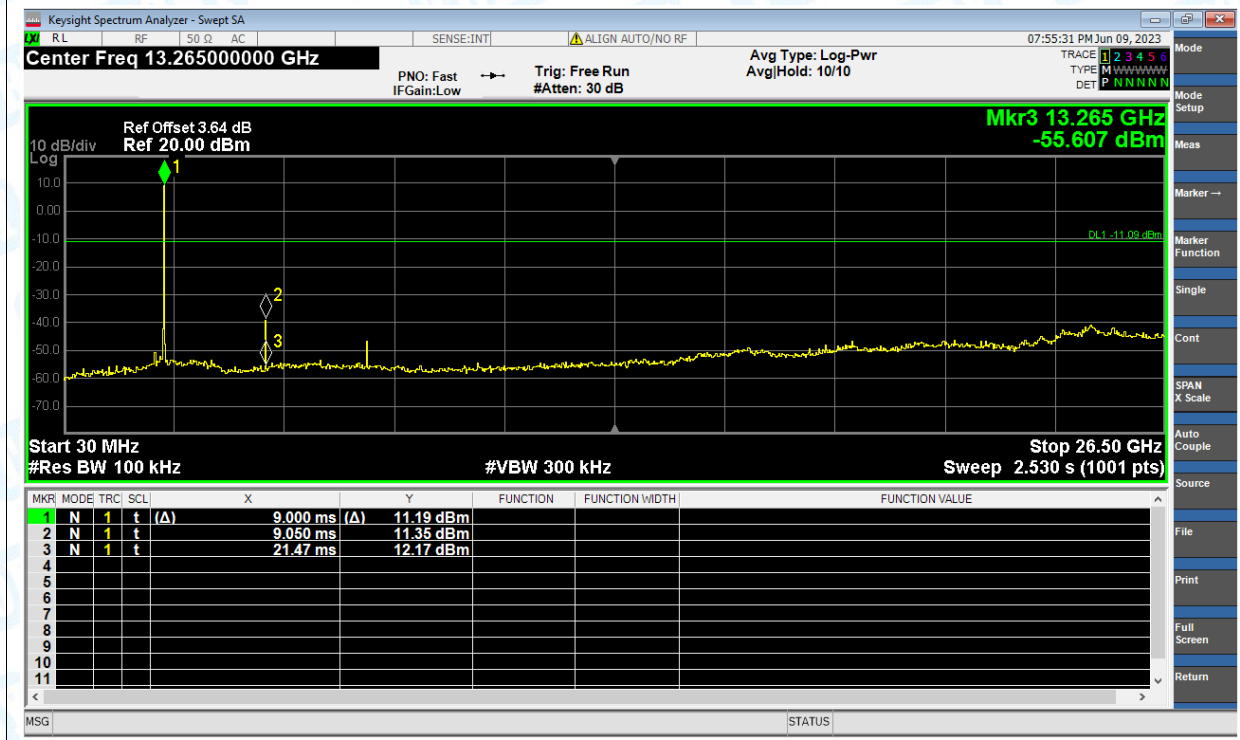
Tx. Spurious NVNT b 2412MHz Ant1 Emission



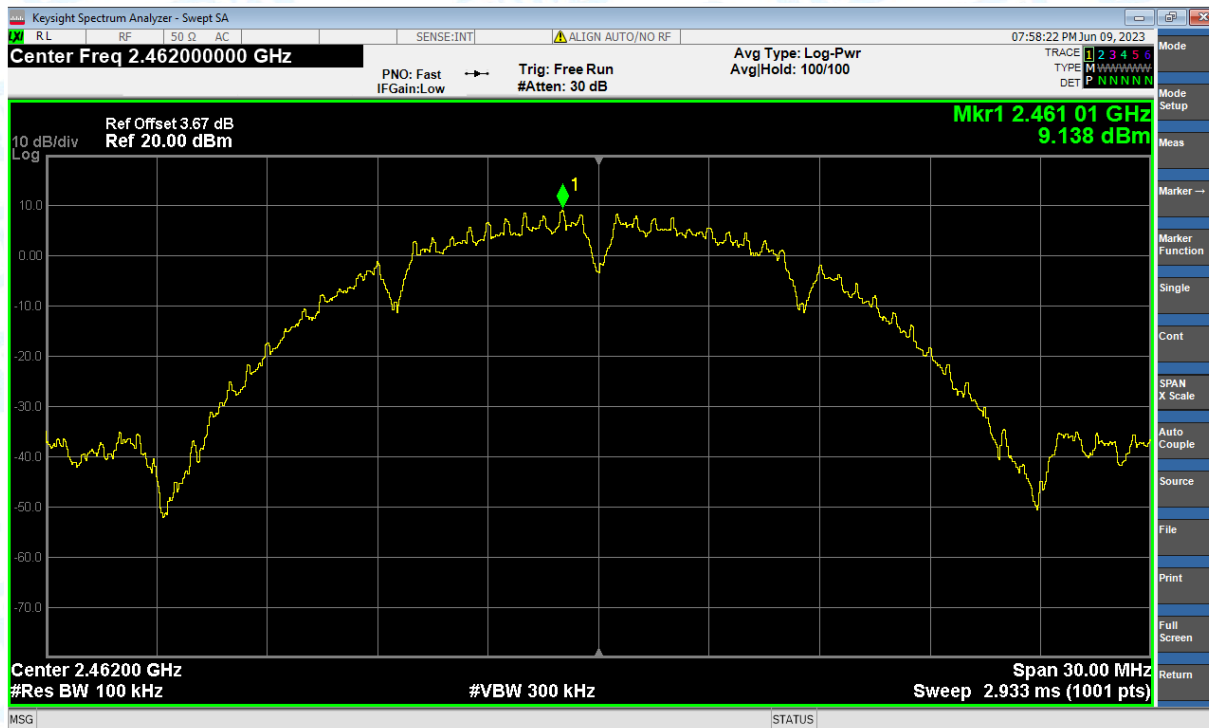
Tx. Spurious NVNT b 2437MHz Ant1 Ref



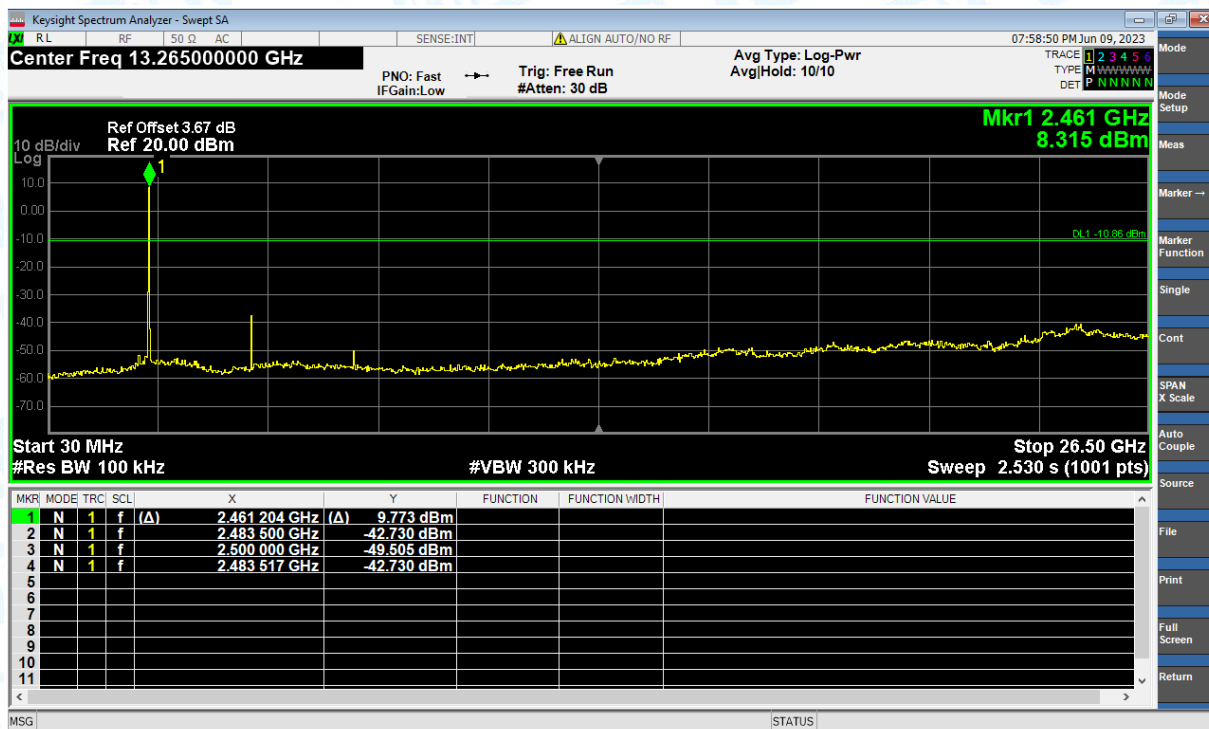
Tx. Spurious NVNT b 2437MHz Ant1 Emission



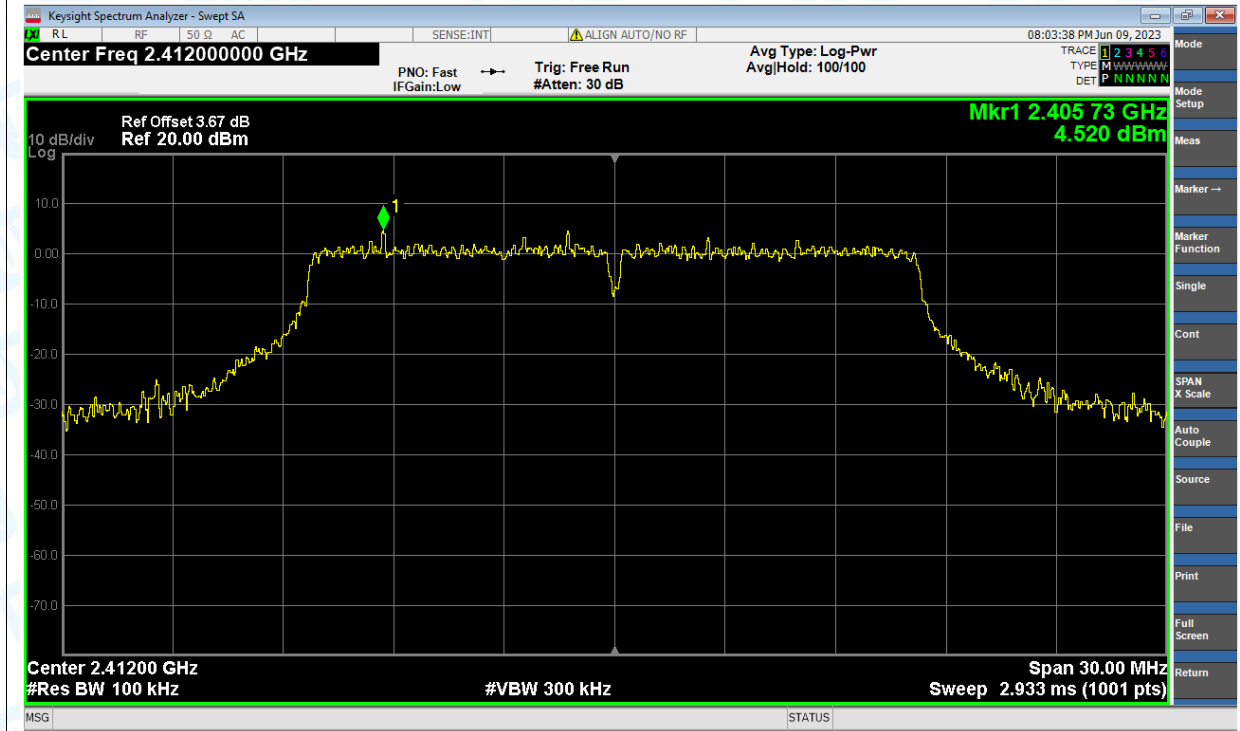
Tx. Spurious NVNT b 2462MHz Ant1 Ref



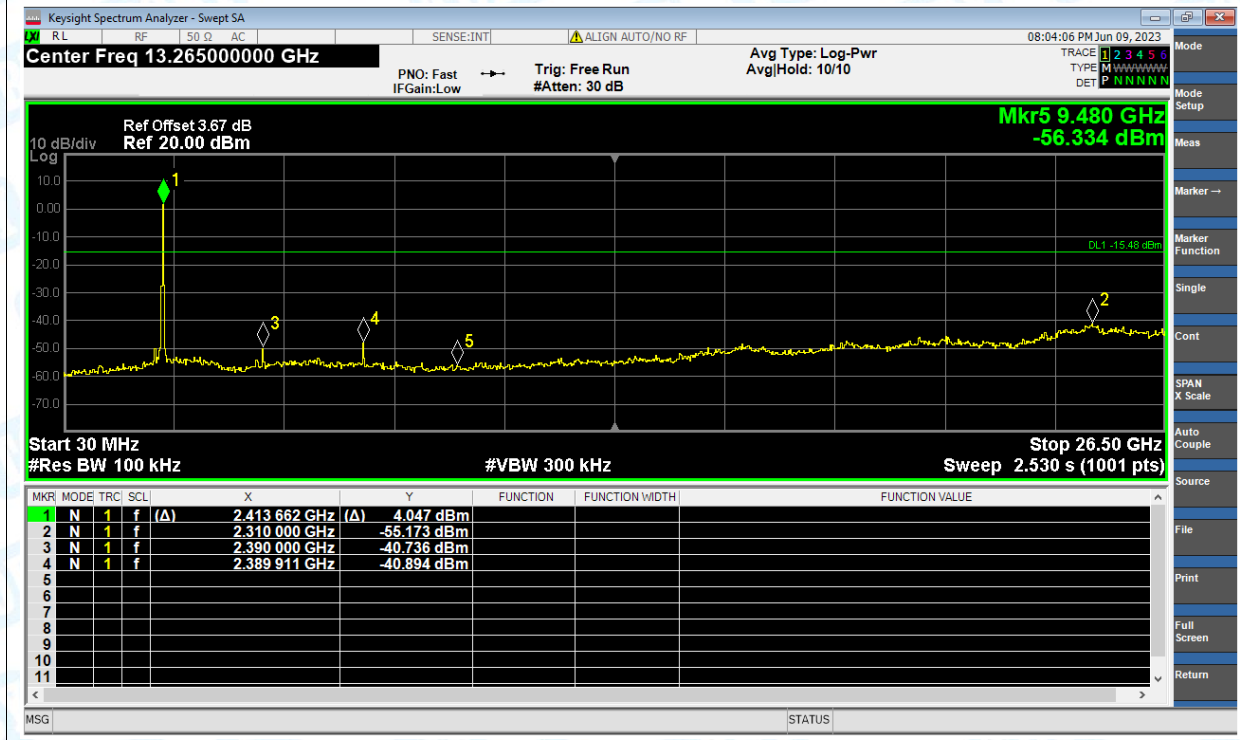
Tx. Spurious NVNT b 2462MHz Ant1 Emission



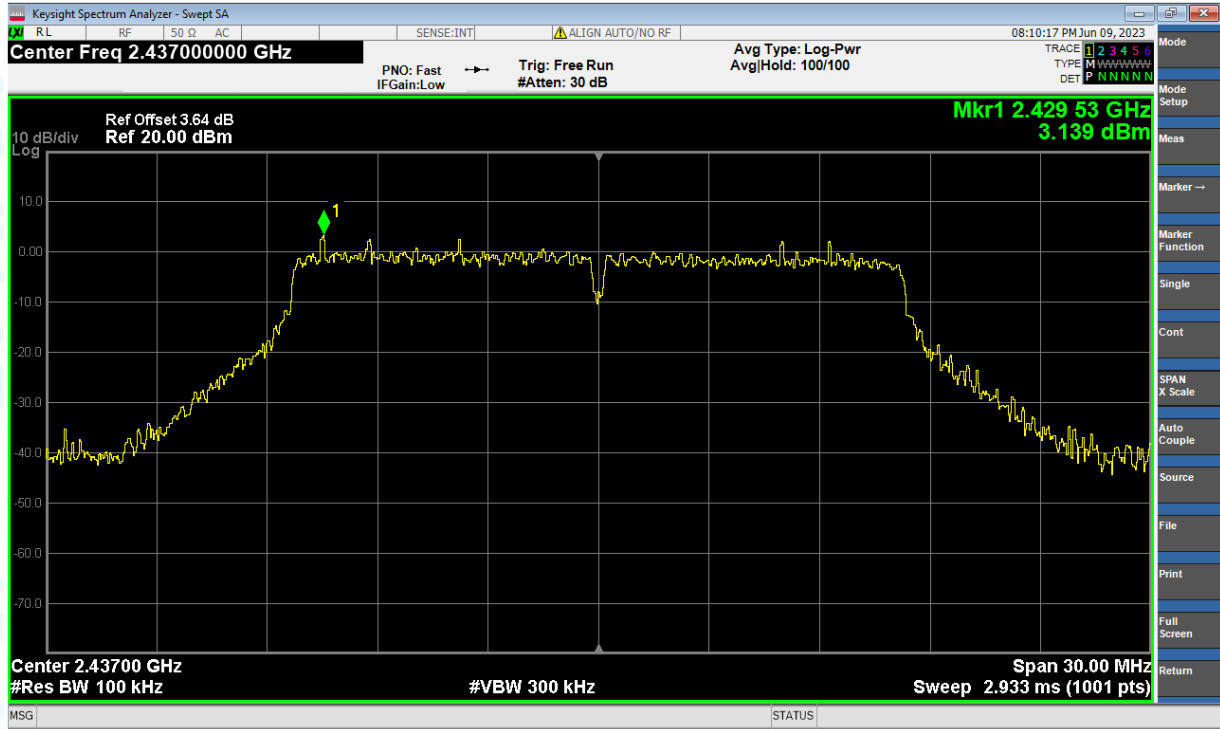
Tx. Spurious NVNT g 2412MHz Ant1 Ref



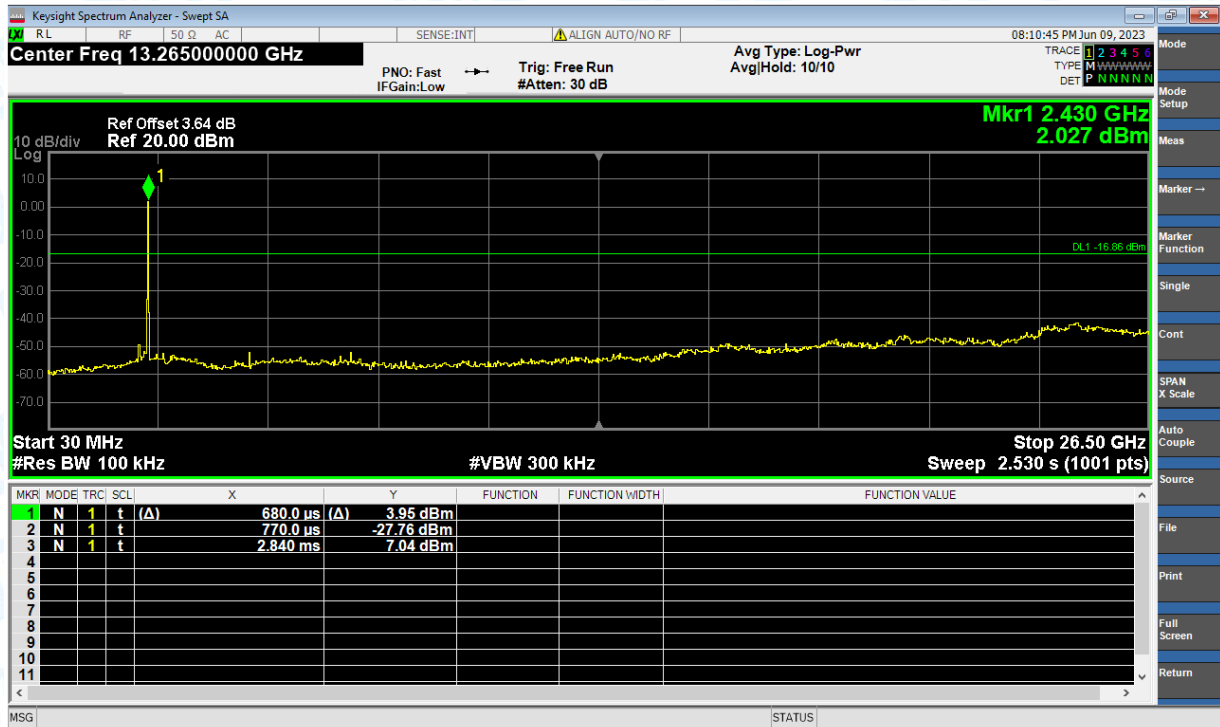
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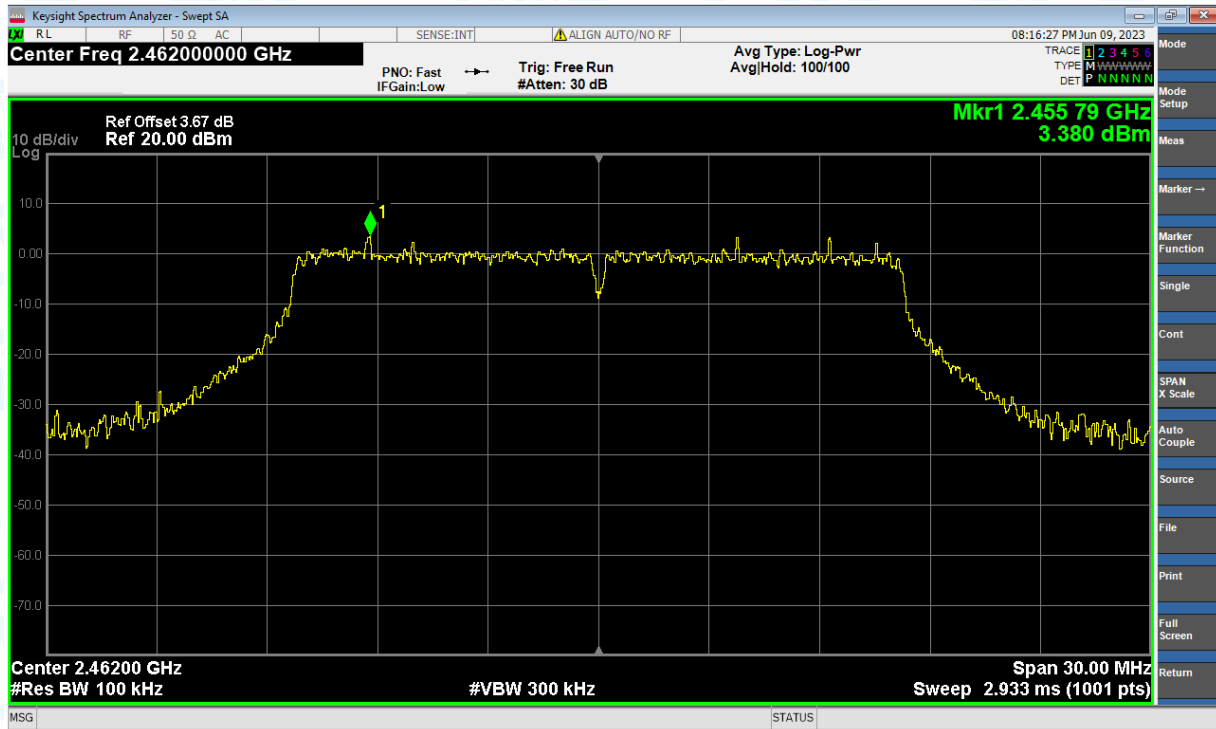
Tx. Spurious NVNT g 2437MHz Ant1 Ref



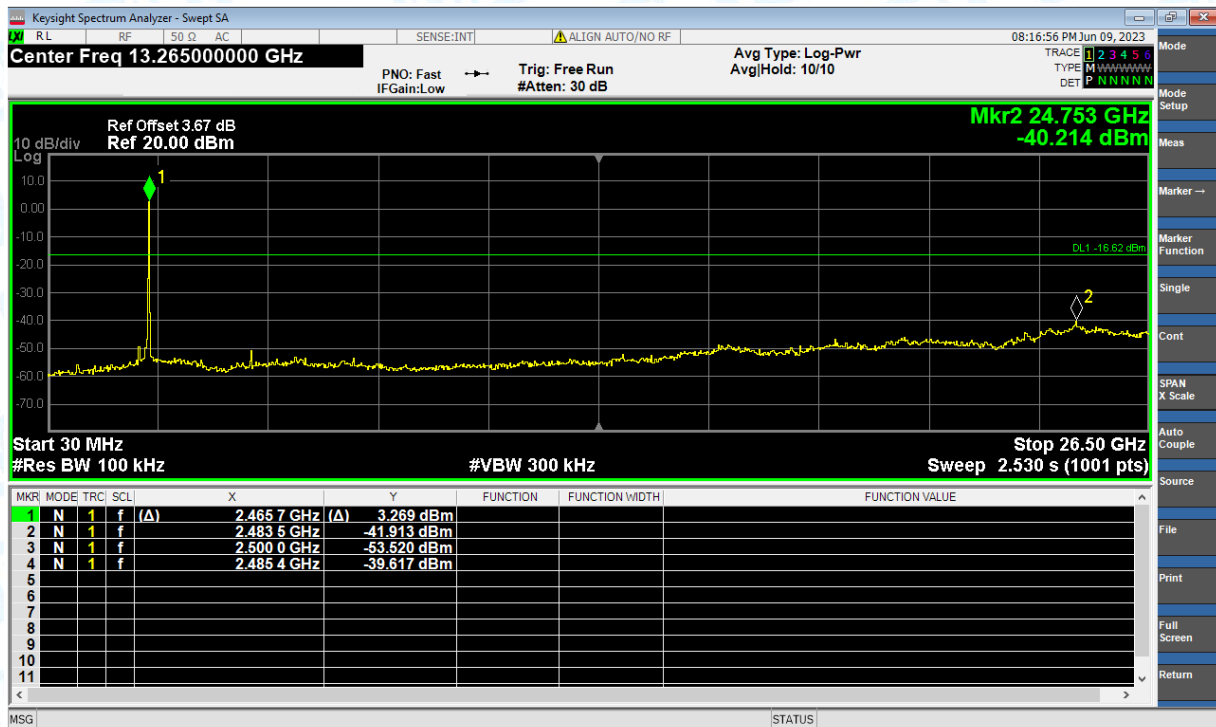
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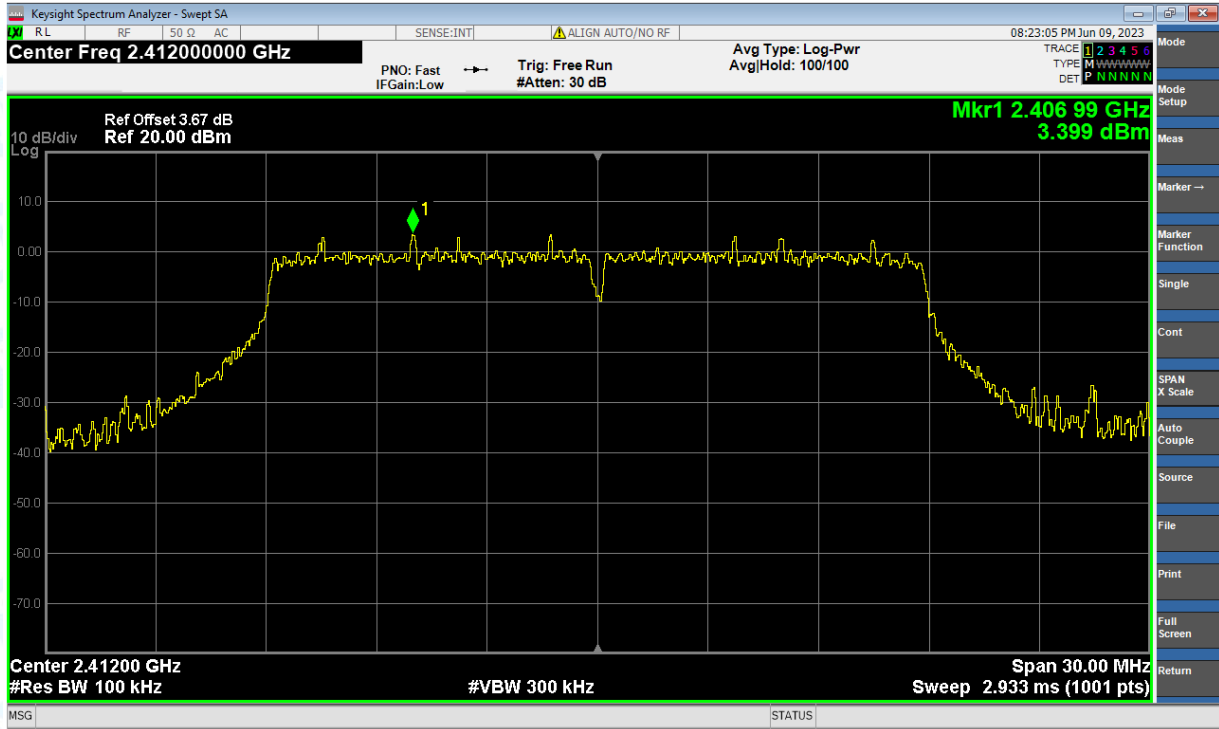
Tx. Spurious NVNT g 2462MHz Ant1 Ref



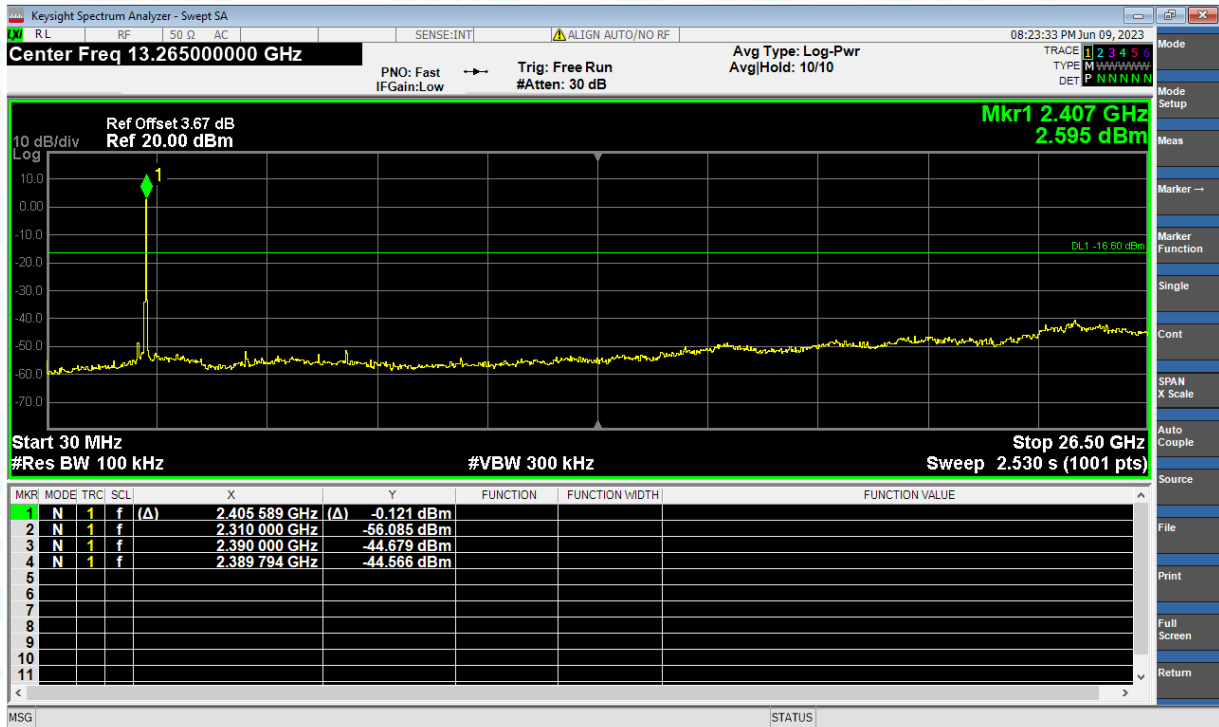
Tx. Spurious NVNT g 2462MHz Ant1 Emission



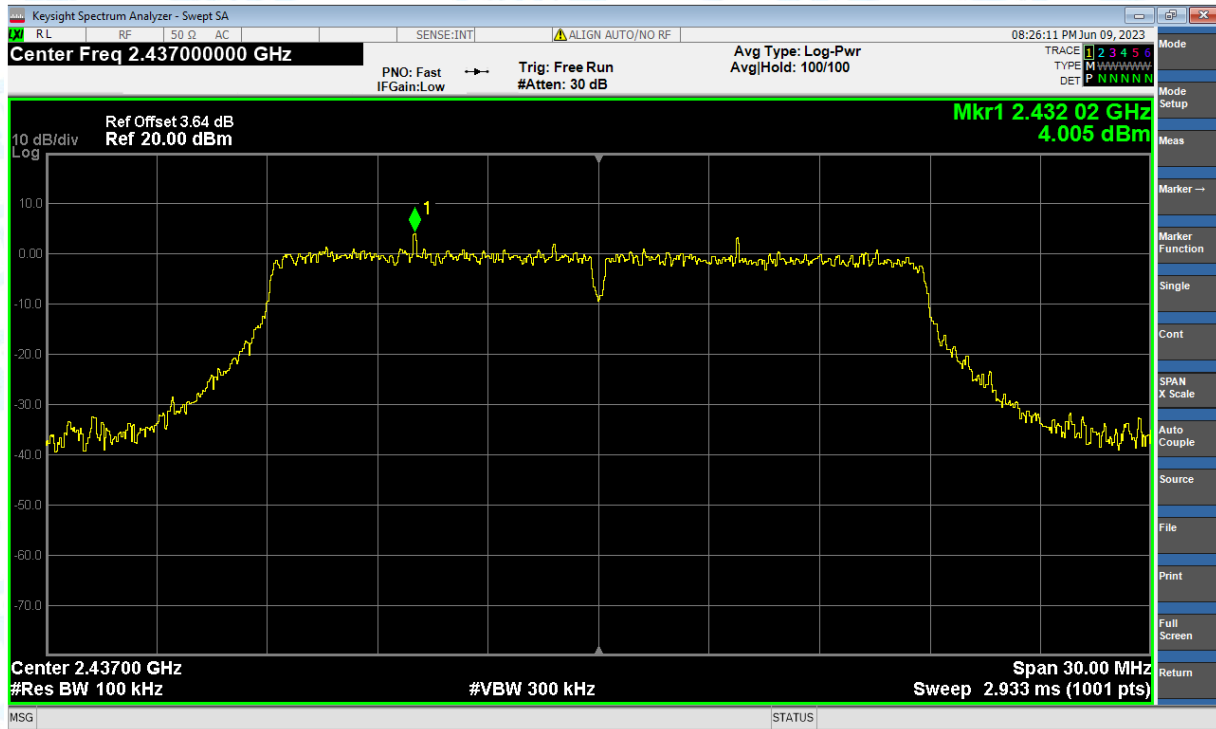
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



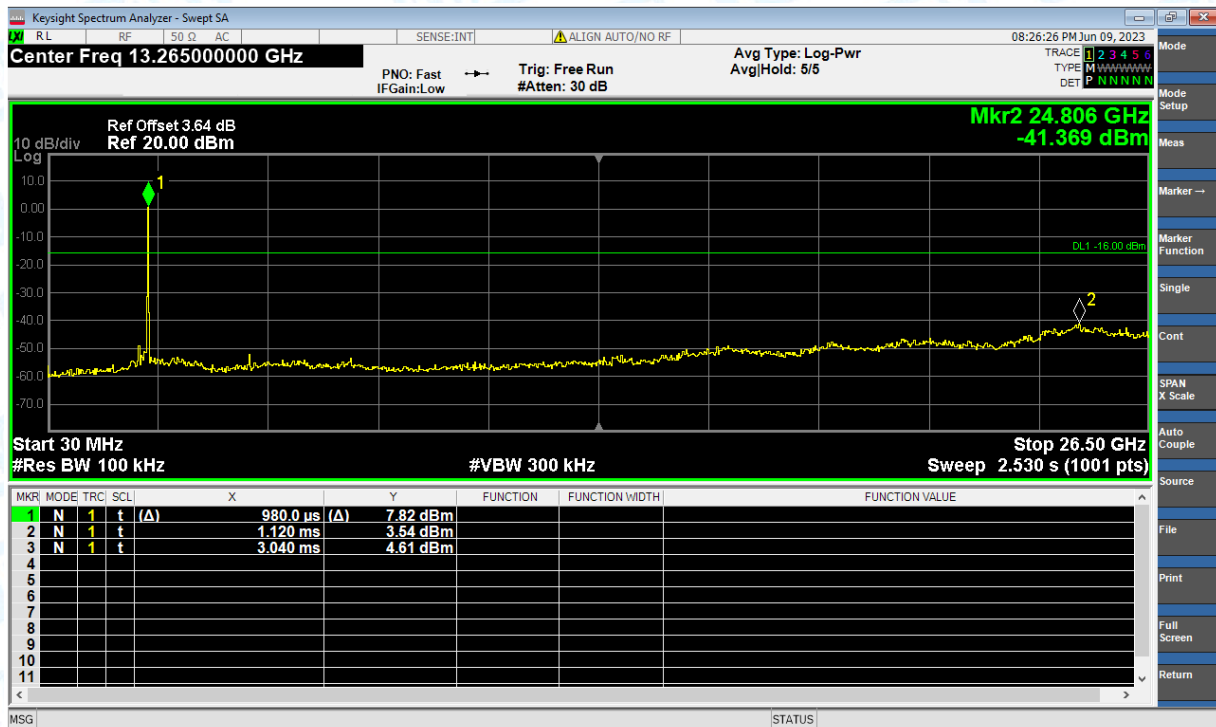
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission

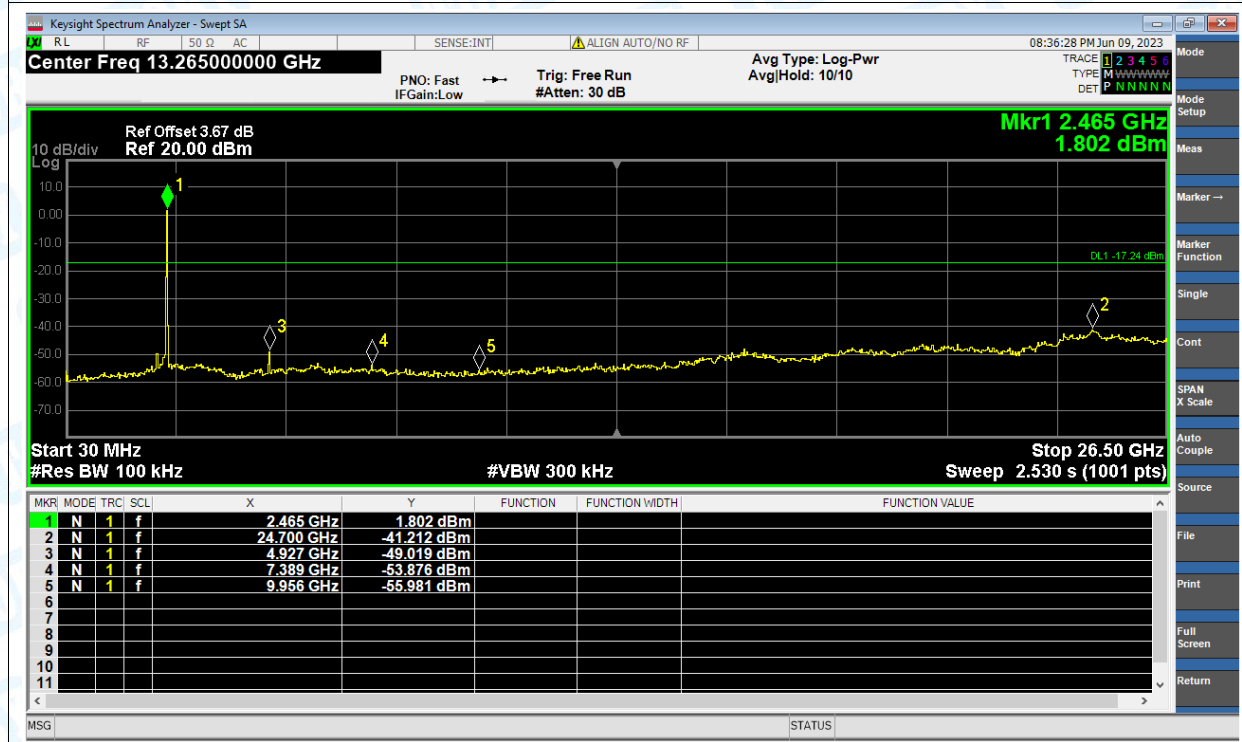
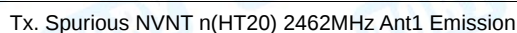


Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



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



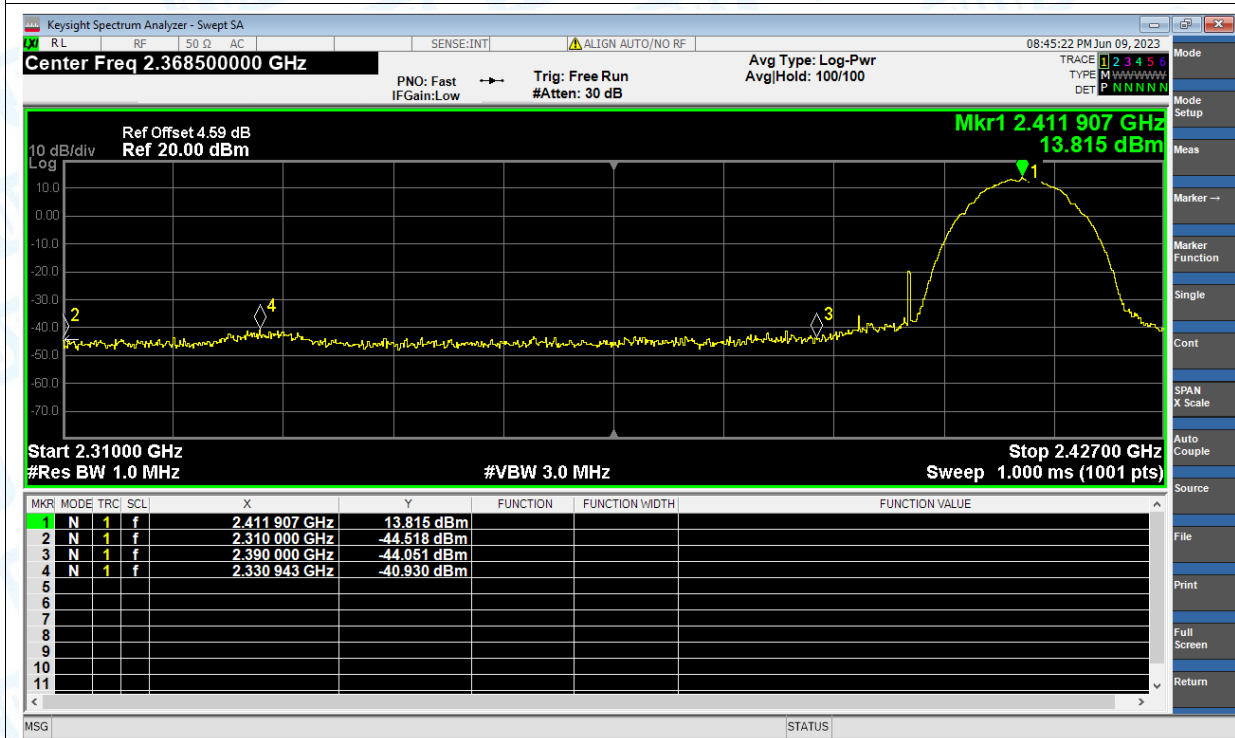


8. Restrict Band

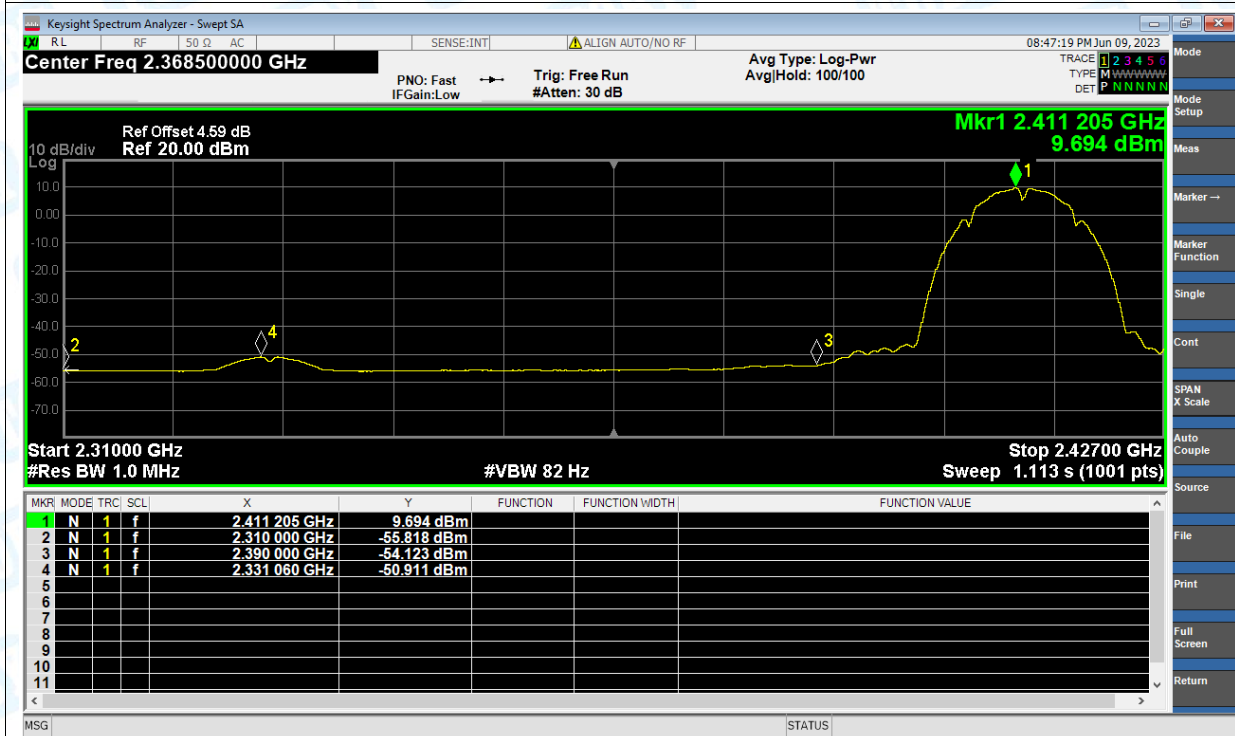
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-44.52	2	52.74	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-55.82	2	41.44	Average	54	Pass
NVNT	b	2412	Ant1	2330.943	-40.93	2	56.33	Peak	74	Pass
NVNT	b	2412	Ant1	2331.06	-50.91	2	46.35	Average	54	Pass
NVNT	b	2412	Ant1	2390	-44.05	2	53.21	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-54.12	2	43.14	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-44.09	2	53.17	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-53.41	2	43.85	Average	54	Pass
NVNT	b	2462	Ant1	2487.863	-41.95	2	55.31	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-53.41	2	43.85	Average	54	Pass
NVNT	b	2462	Ant1	2500	-45.89	2	51.37	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-56.22	2	41.04	Average	54	Pass
NVNT	g	2412	Ant1	2310	-43.55	2	53.71	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.48	2	41.78	Average	54	Pass
NVNT	g	2412	Ant1	2389.092	-26.78	2	70.48	Peak	74	Pass
NVNT	g	2412	Ant1	2389.794	-44.93	2	52.33	Average	54	Pass
NVNT	g	2412	Ant1	2390	-29.66	2	67.6	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-44.68	2	52.58	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-29.68	2	67.58	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-47.12	2	50.14	Average	54	Pass
NVNT	g	2462	Ant1	2487.28	-29.14	2	68.12	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-47.12	2	50.14	Average	54	Pass
NVNT	g	2462	Ant1	2500	-37.58	2	59.68	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-54.38	2	42.88	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-44.86	2	52.4	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-56.02	2	41.24	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2389.092	-25.04	2	72.22	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-45.02	2	52.24	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-23.74	2	73.52	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-44.9	2	52.36	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-30.82	2	66.44	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-46.43	2	50.83	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.888	-25.94	2	71.32	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-46.43	2	50.83	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-42.03	2	55.23	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-53.8	2	43.46	Average	54	Pass

Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



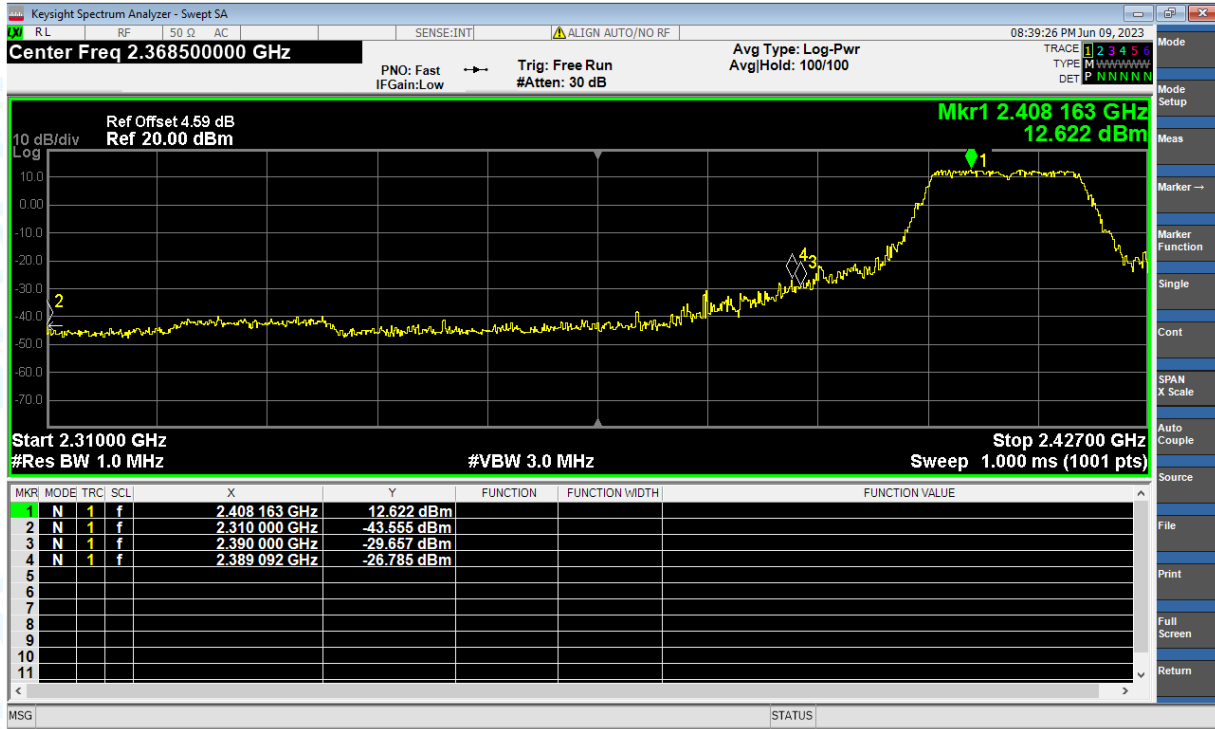
Restrict Band NVNT b 2462MHz Ant1 Peak



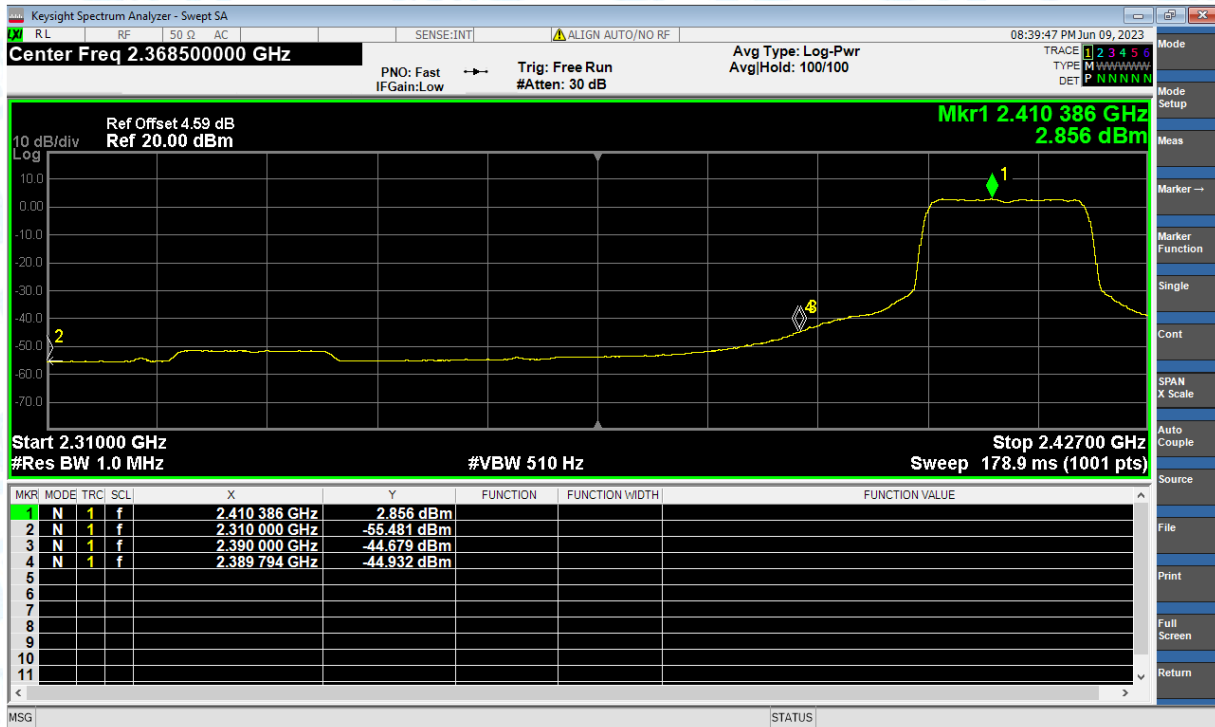
Restrict Band NVNT b 2462MHz Ant1 Average



Restrict Band NVNT g 2412MHz Ant1 Peak



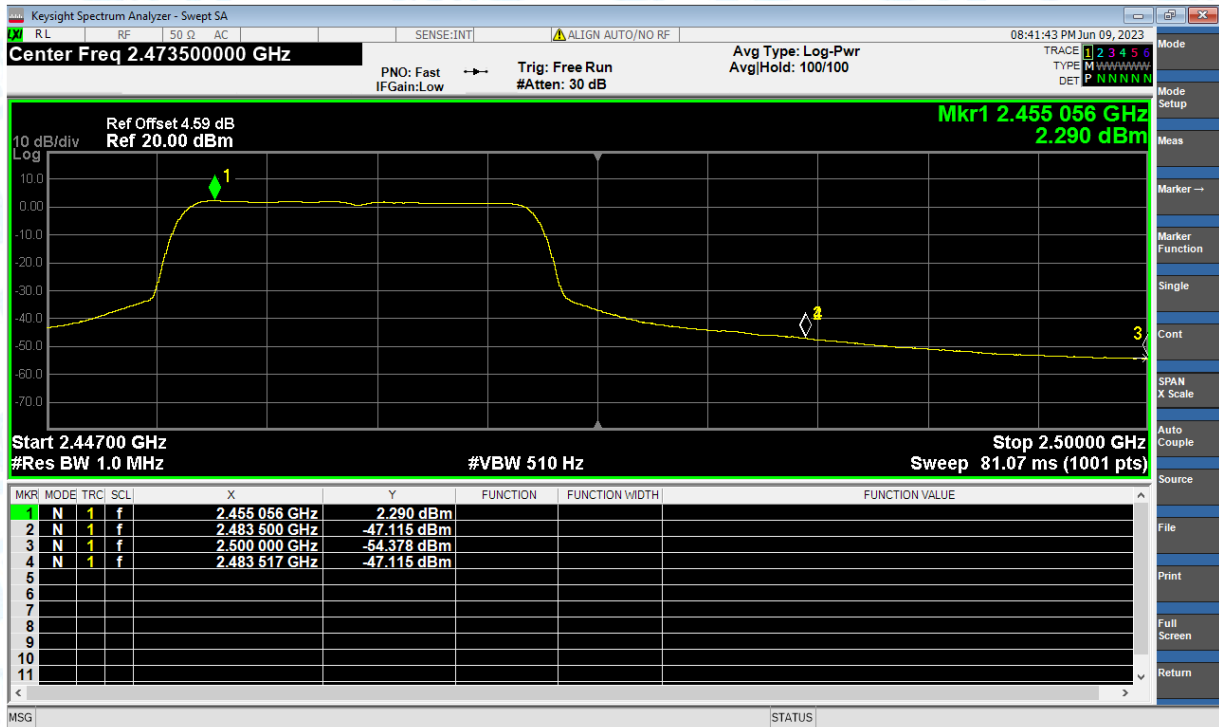
Restrict Band NVNT g 2412MHz Ant1 Average



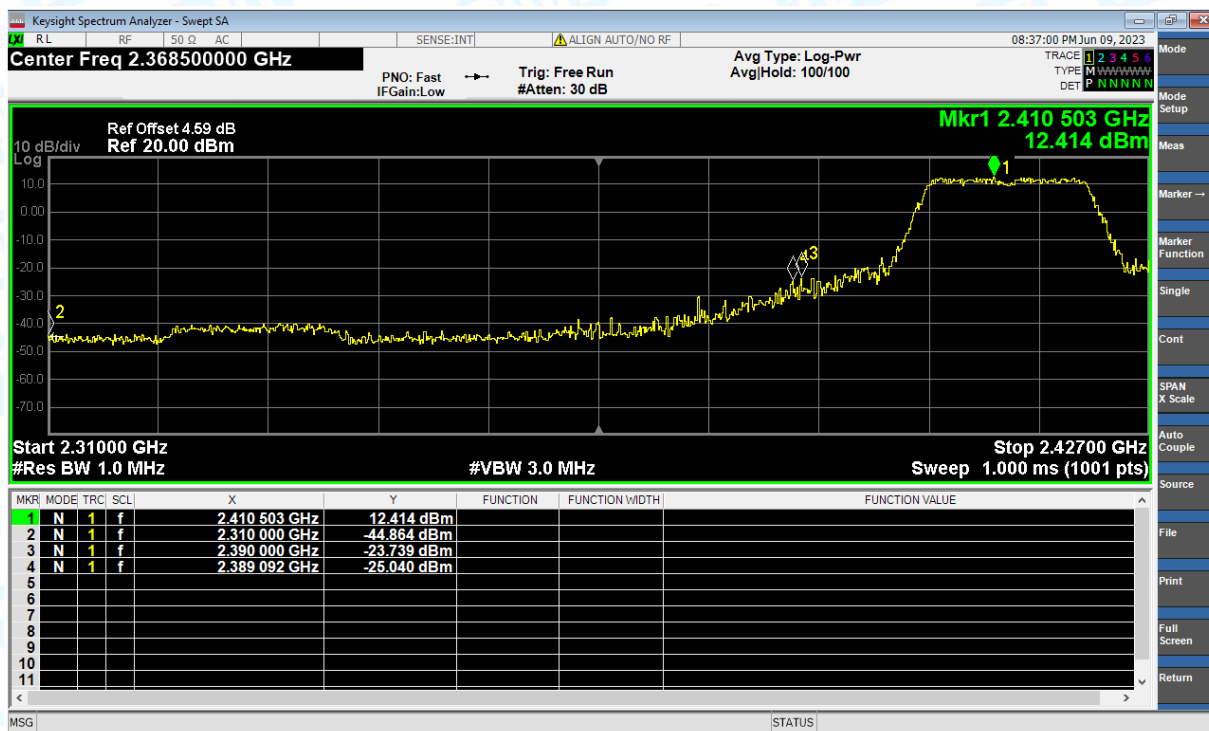
Restrict Band NVNT g 2462MHz Ant1 Peak



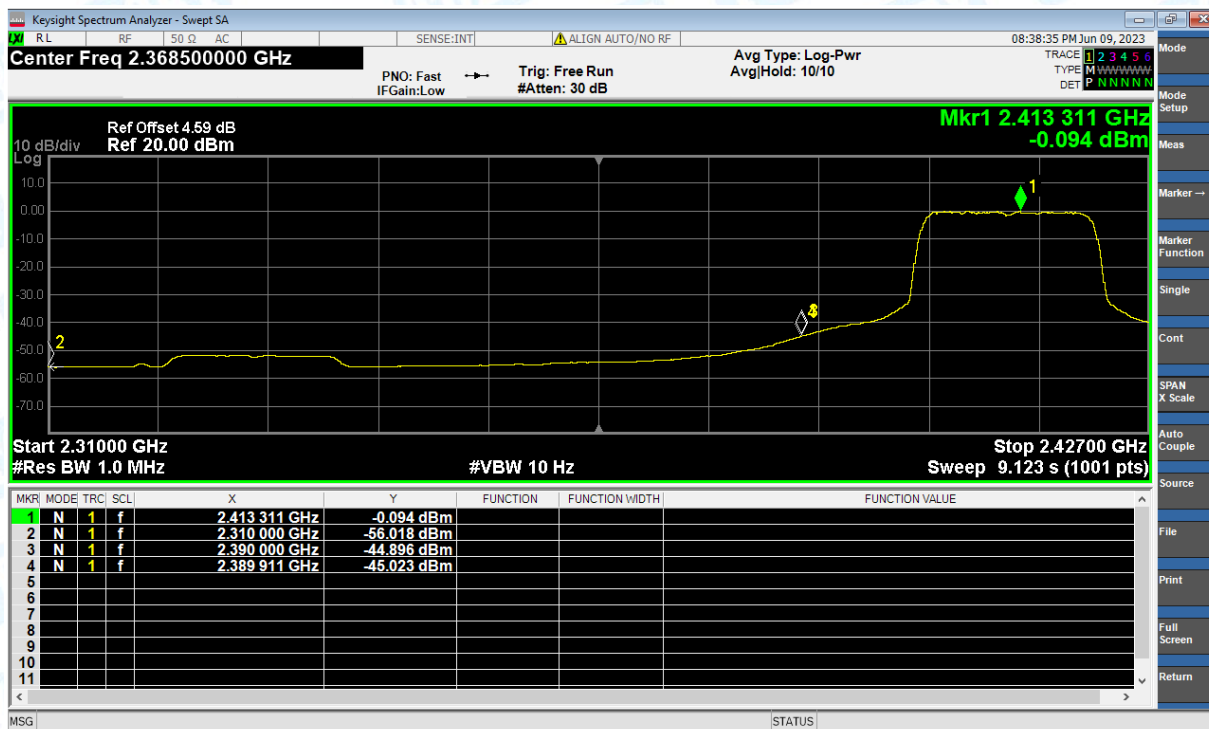
Restrict Band NVNT g 2462MHz Ant1 Average



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



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