

# RF Test Data for 2.4G WiFi (Conducted Measurements)

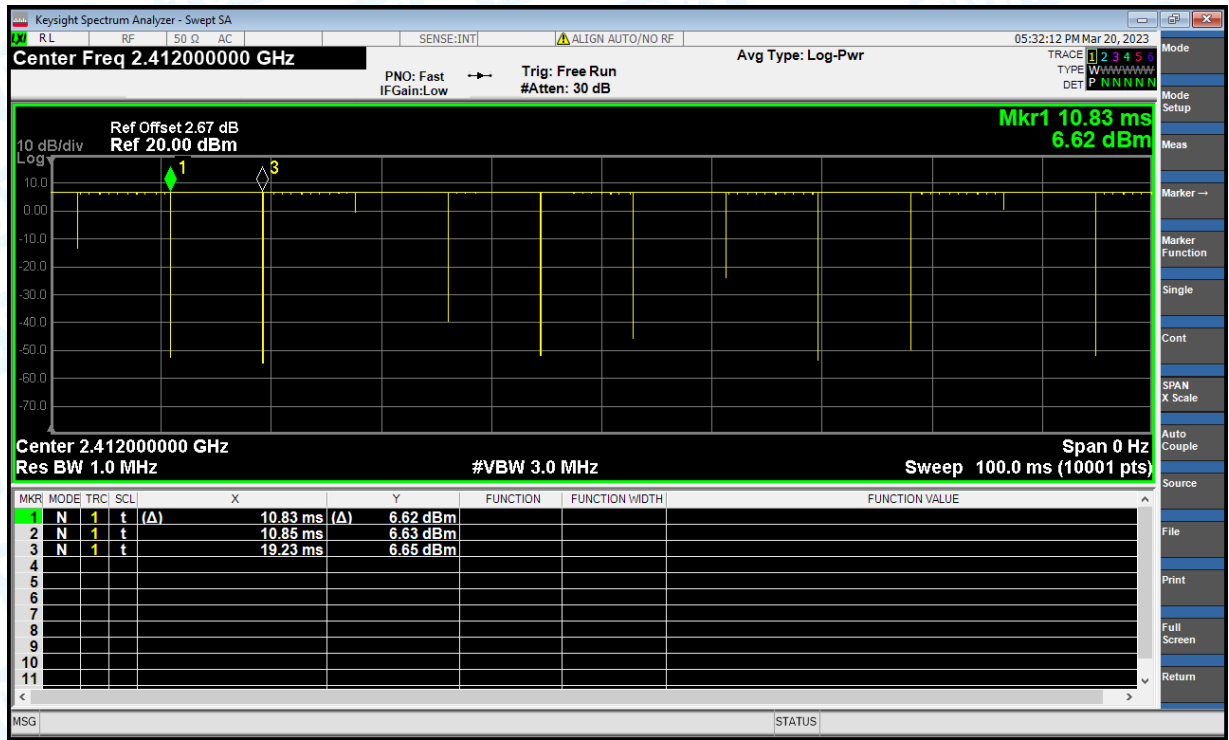
General Description of EUT	
<b>Product Name:</b>	2.4GHz Digital Wireless Video Baby Camera
<b>Test Model:</b>	HB6081
<b>Sample ID:</b>	202303-0036-7-2#
Environmental Conditions	
<b>Temperature:</b>	24°C
<b>Relative Humidity:</b>	50%
<b>Test Voltage:</b>	DC 5V
<b>Test Engineer:</b>	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202303-0036-13. The report only show the worst case data.	

## Duty Cycle

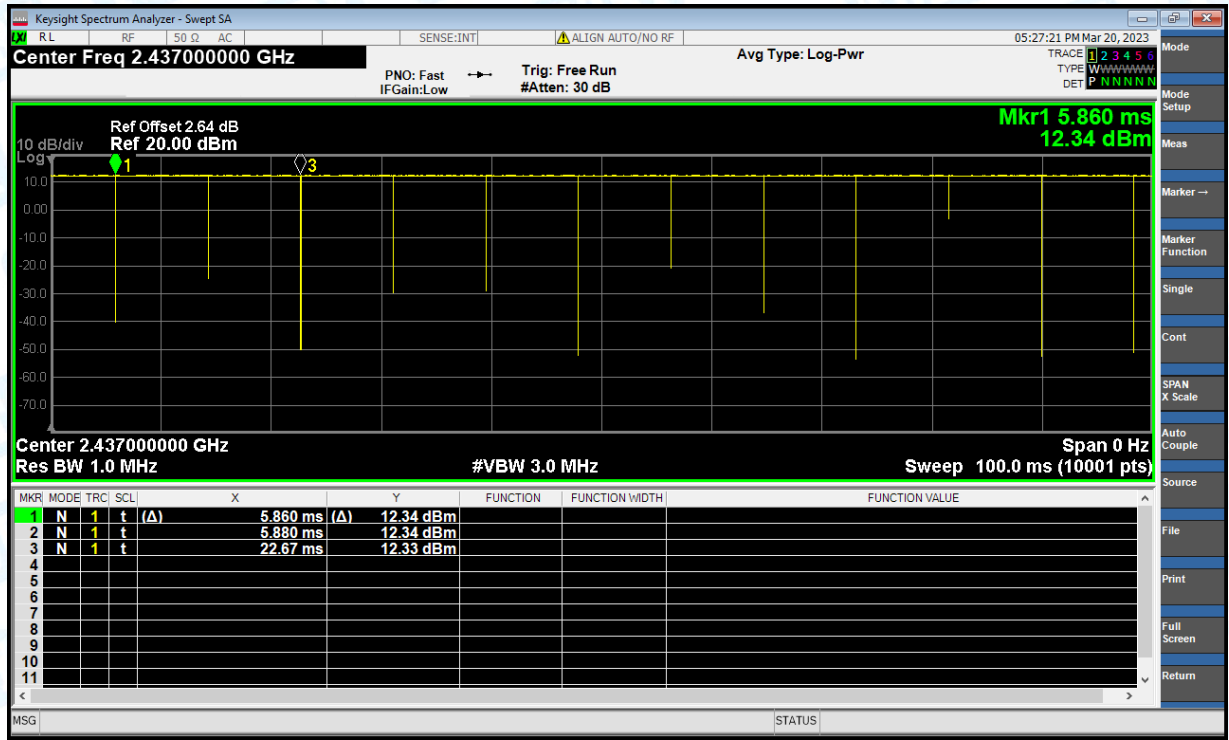
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.76	0.01	0.12
NVNT	b	2437	Ant1	99.88	0.01	0.06
NVNT	b	2462	Ant1	99.76	0.01	0.12
NVNT	g	2412	Ant1	98.58	0.06	0.72
NVNT	g	2437	Ant1	98.58	0.06	0.72
NVNT	g	2462	Ant1	98.58	0.06	0.72

Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

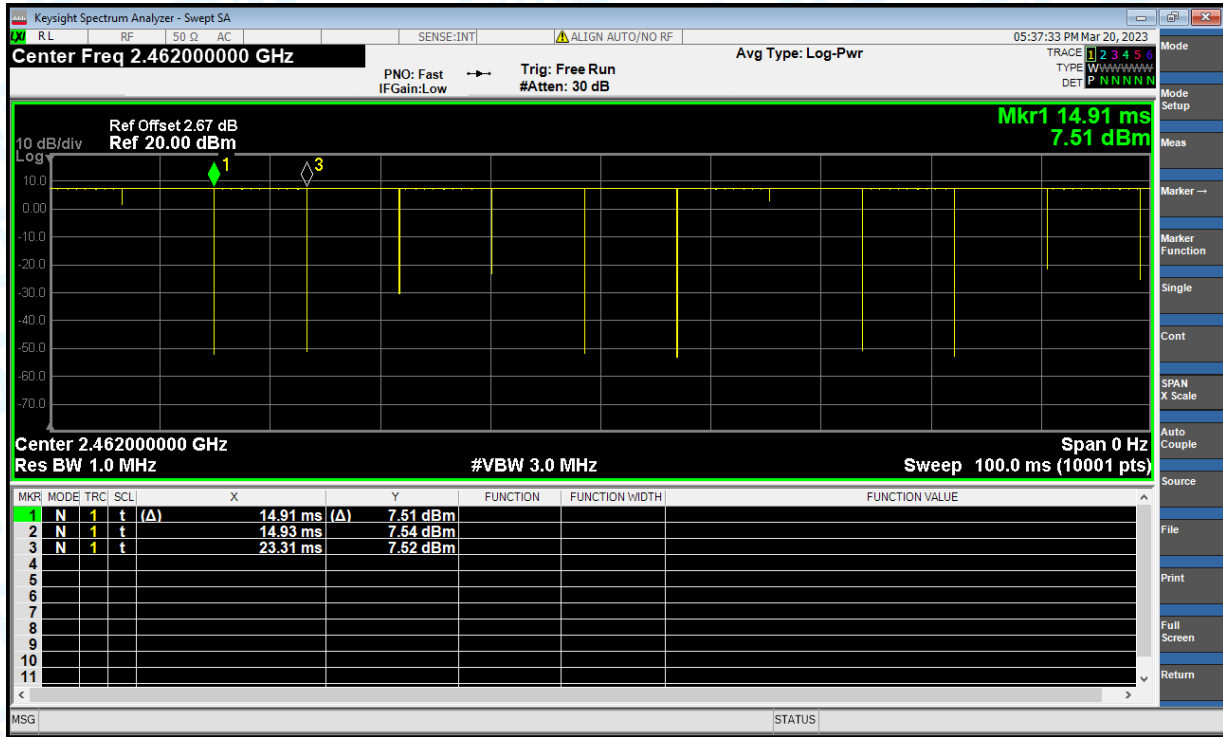


Duty Cycle NVNT b 2437MHz Ant1

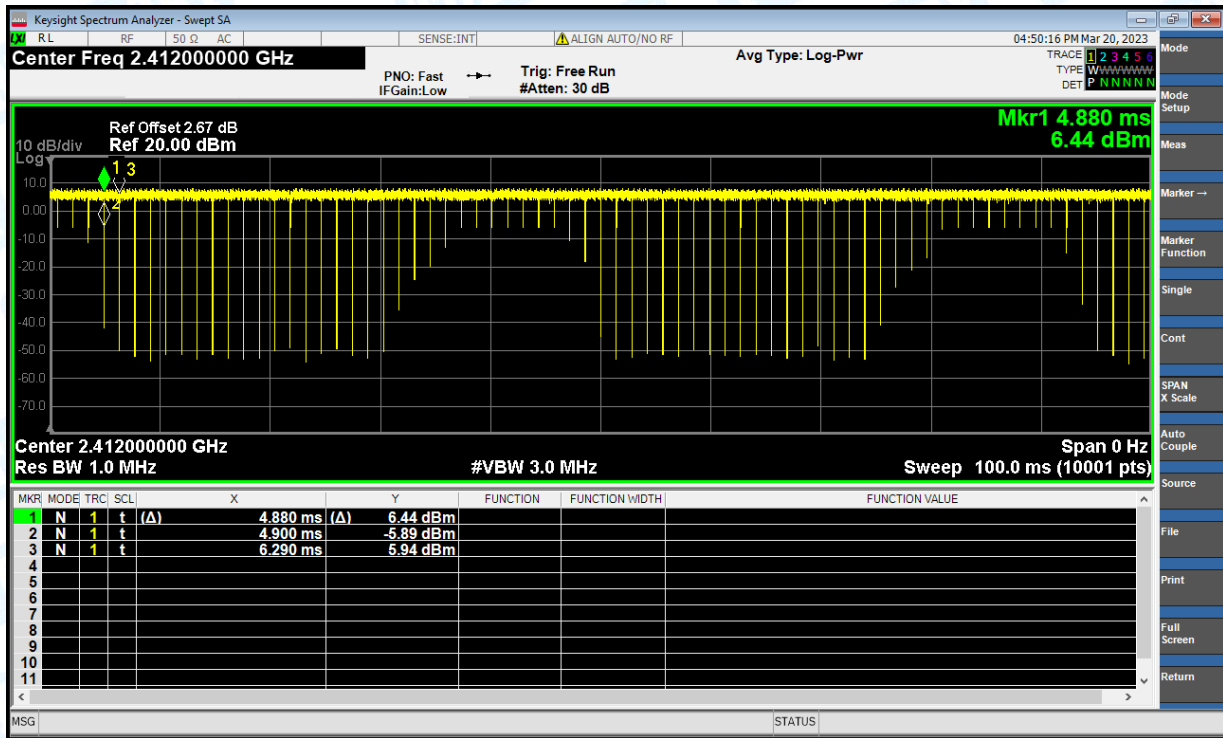




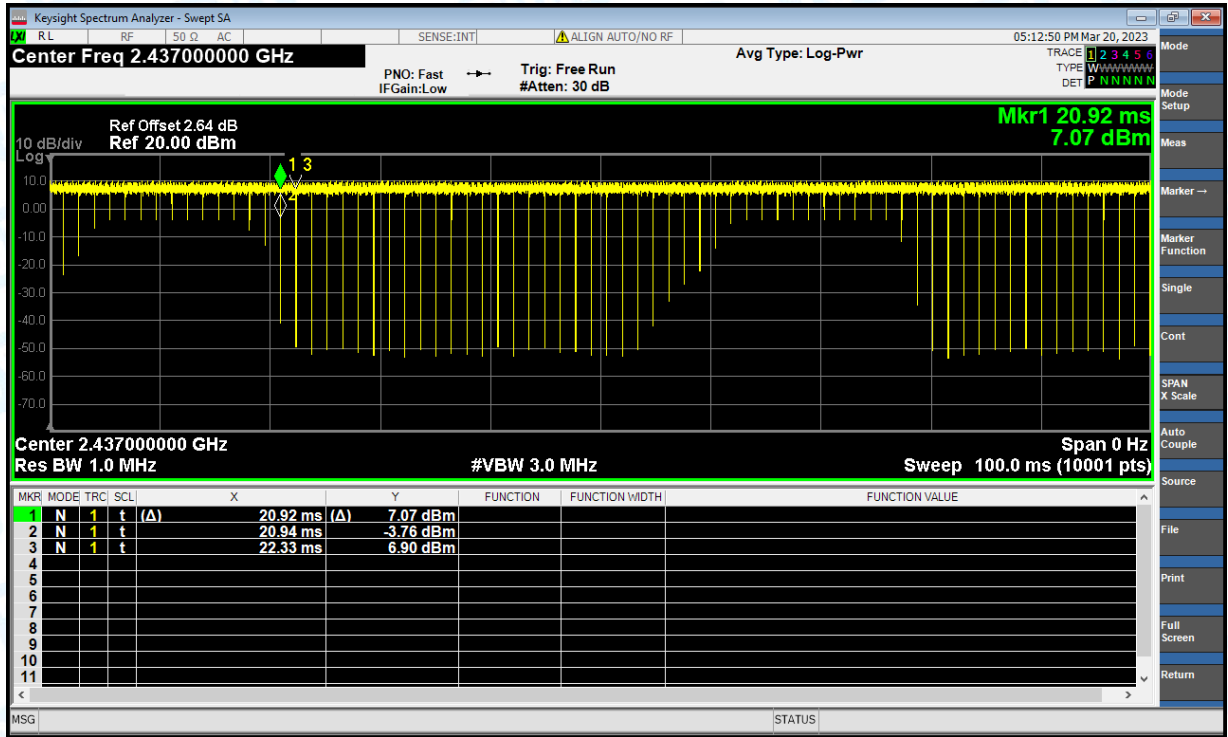
Duty Cycle NVNT b 2462MHz Ant1



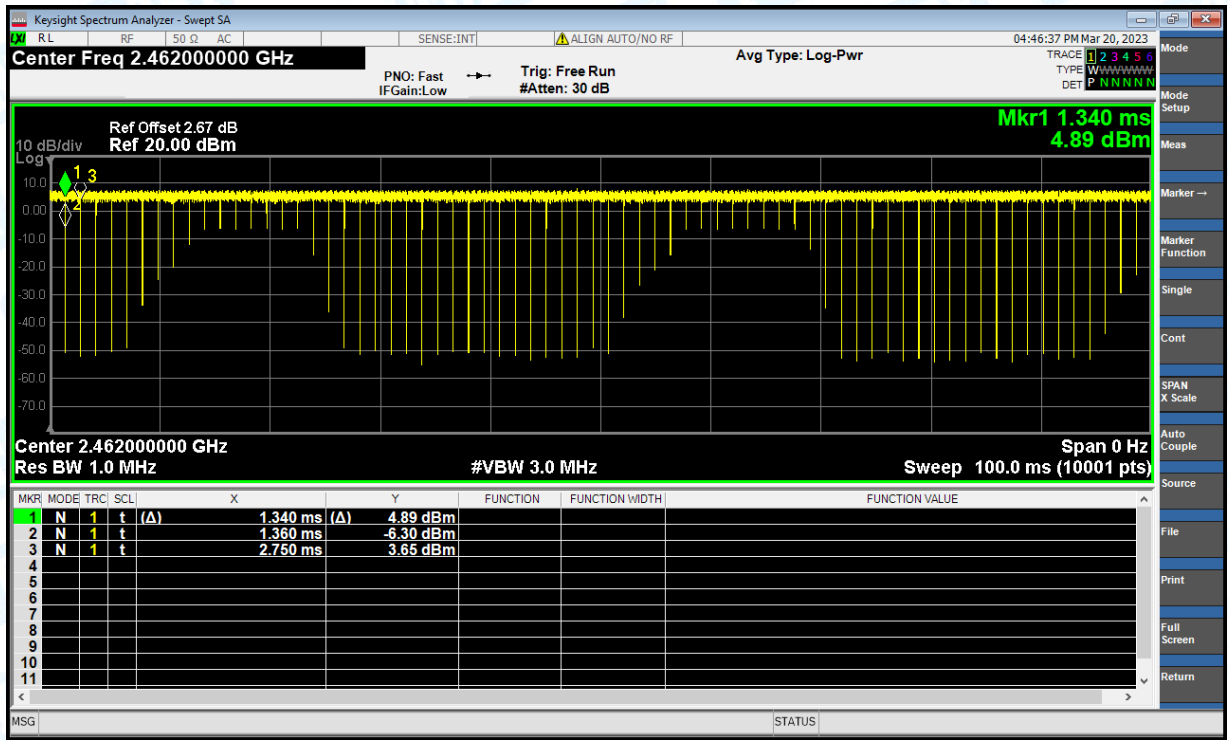
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1





## Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	12.372	30	Pass
NVNT	b	2437	Ant1	18.331	30	Pass
NVNT	b	2462	Ant1	13.261	30	Pass
NVNT	g	2412	Ant1	13.647	30	Pass
NVNT	g	2437	Ant1	15.166	30	Pass
NVNT	g	2462	Ant1	13.174	30	Pass

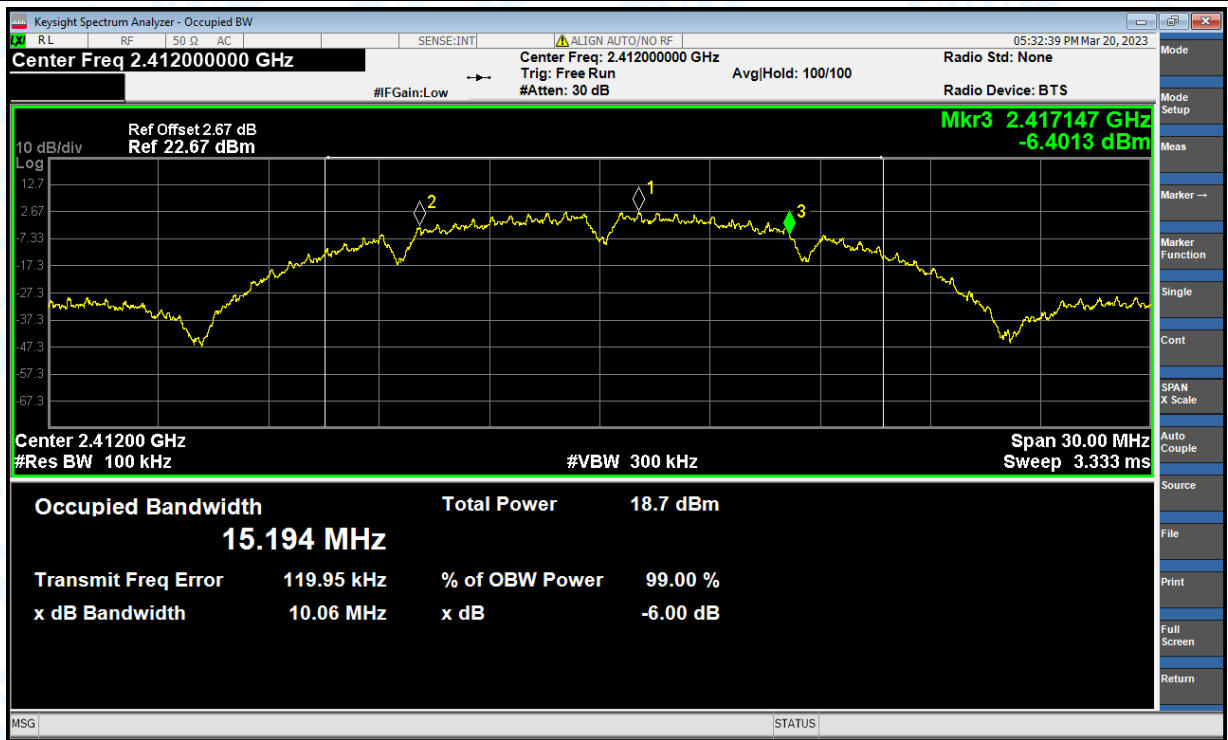


## -6dB Bandwidth

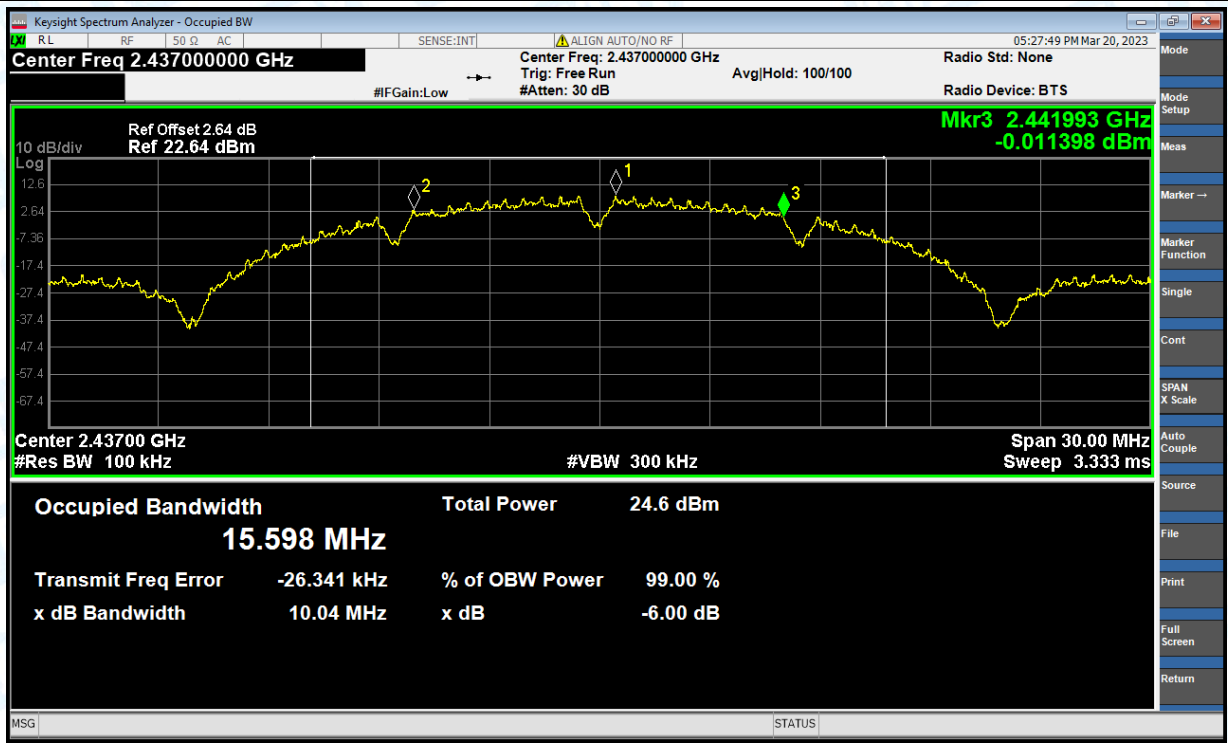
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.06	0.5	Pass
NVNT	b	2437	Ant1	10.04	0.5	Pass
NVNT	b	2462	Ant1	10.05	0.5	Pass
NVNT	g	2412	Ant1	16.33	0.5	Pass
NVNT	g	2437	Ant1	16.32	0.5	Pass
NVNT	g	2462	Ant1	16.37	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

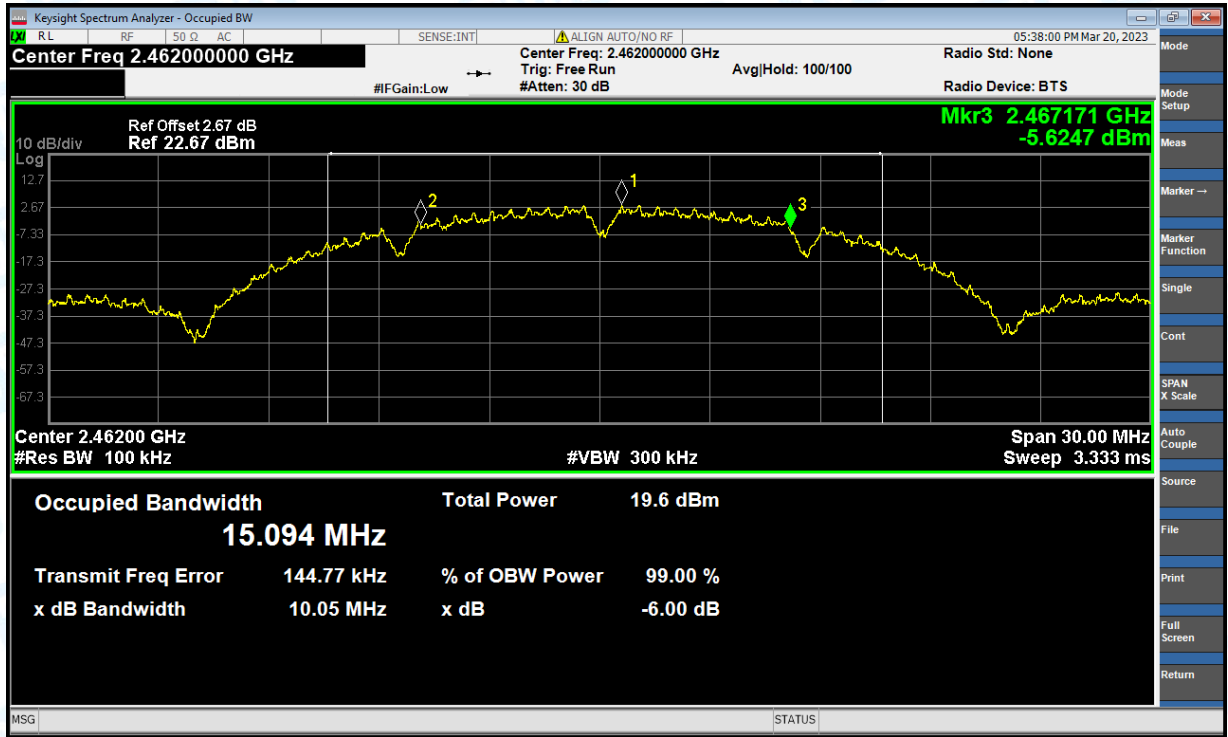


-6dB Bandwidth NVNT b 2437MHz Ant1

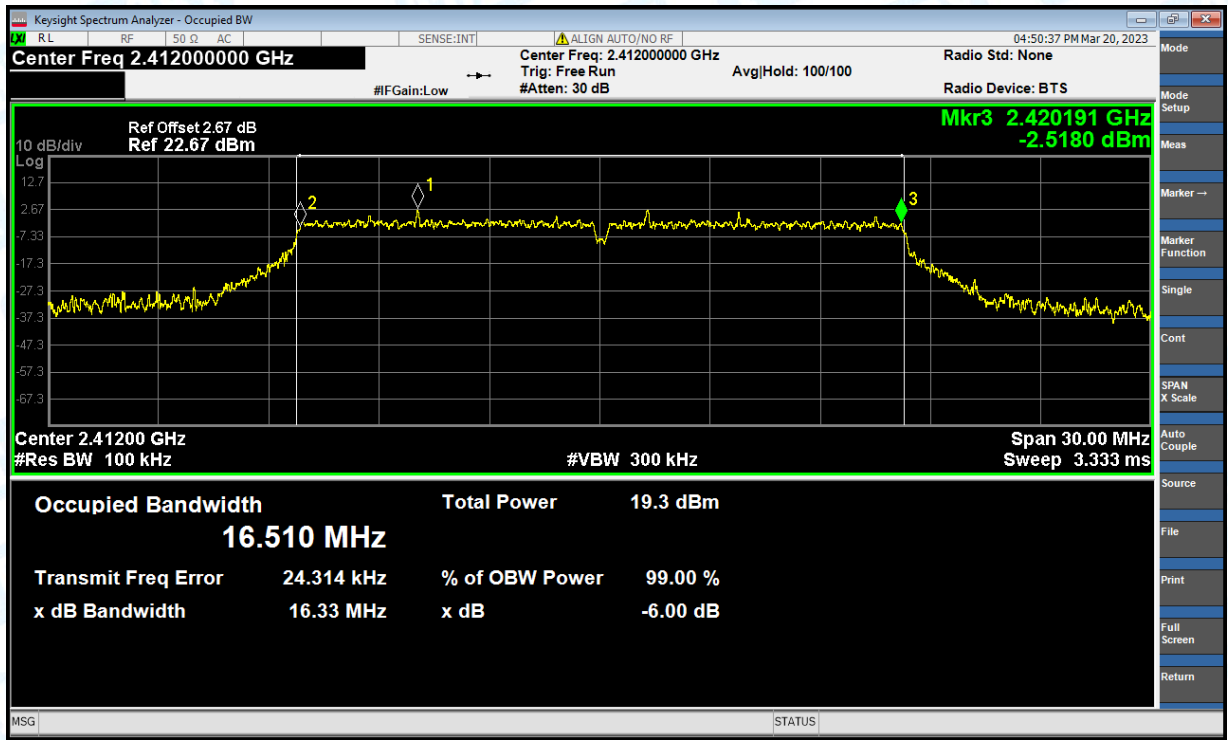




-6dB Bandwidth NVNT b 2462MHz Ant1

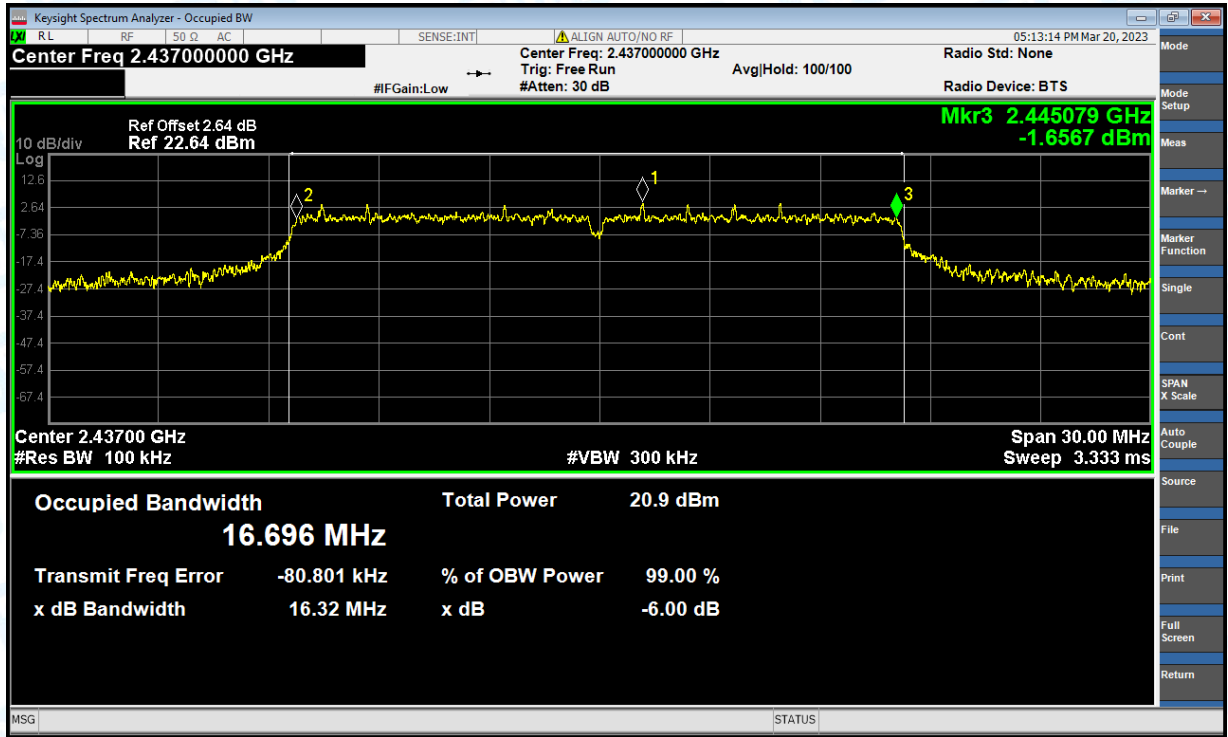


-6dB Bandwidth NVNT g 2412MHz Ant1

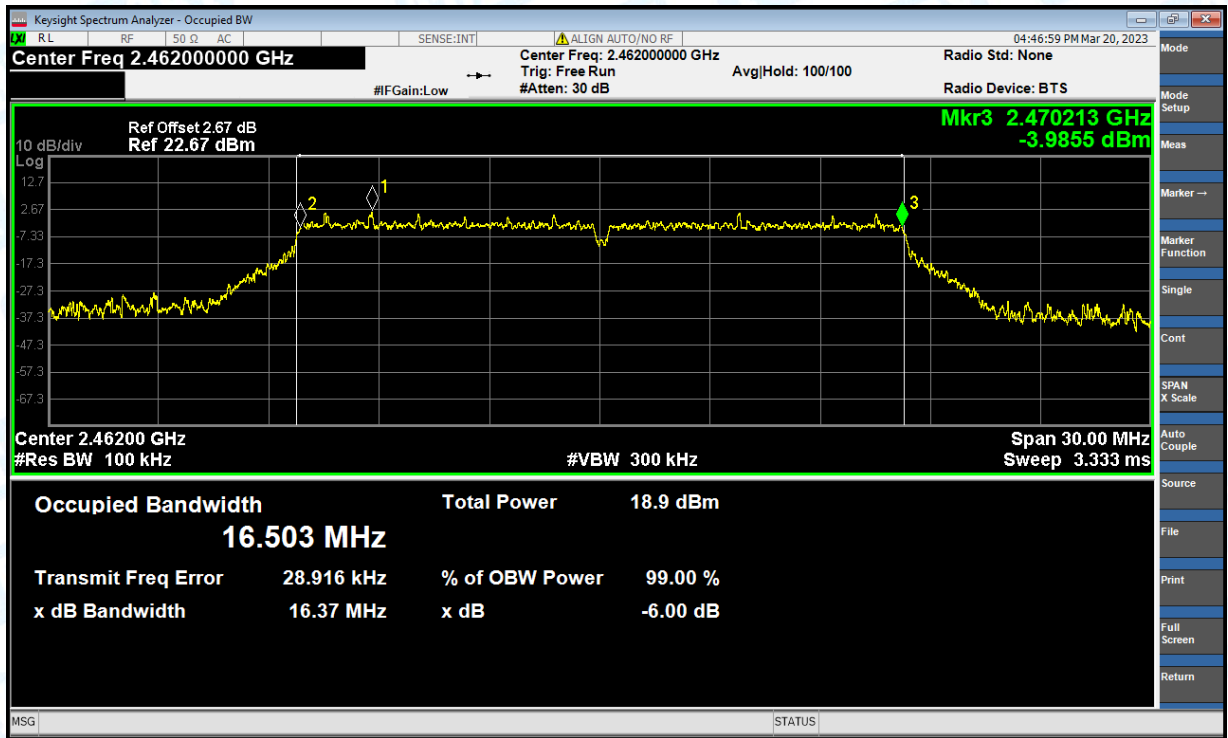




-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



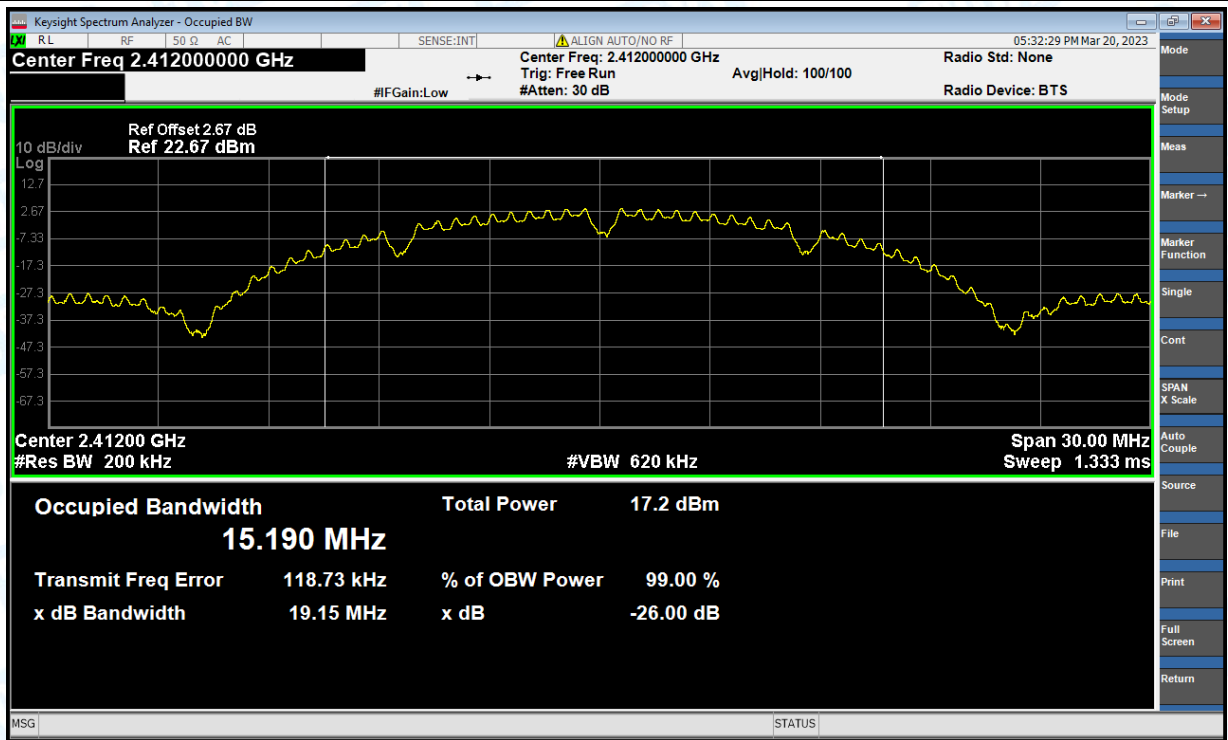
## Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.19
NVNT	b	2437	Ant1	15.649
NVNT	b	2462	Ant1	15.123
NVNT	g	2412	Ant1	16.709
NVNT	g	2437	Ant1	17.022
NVNT	g	2462	Ant1	16.704

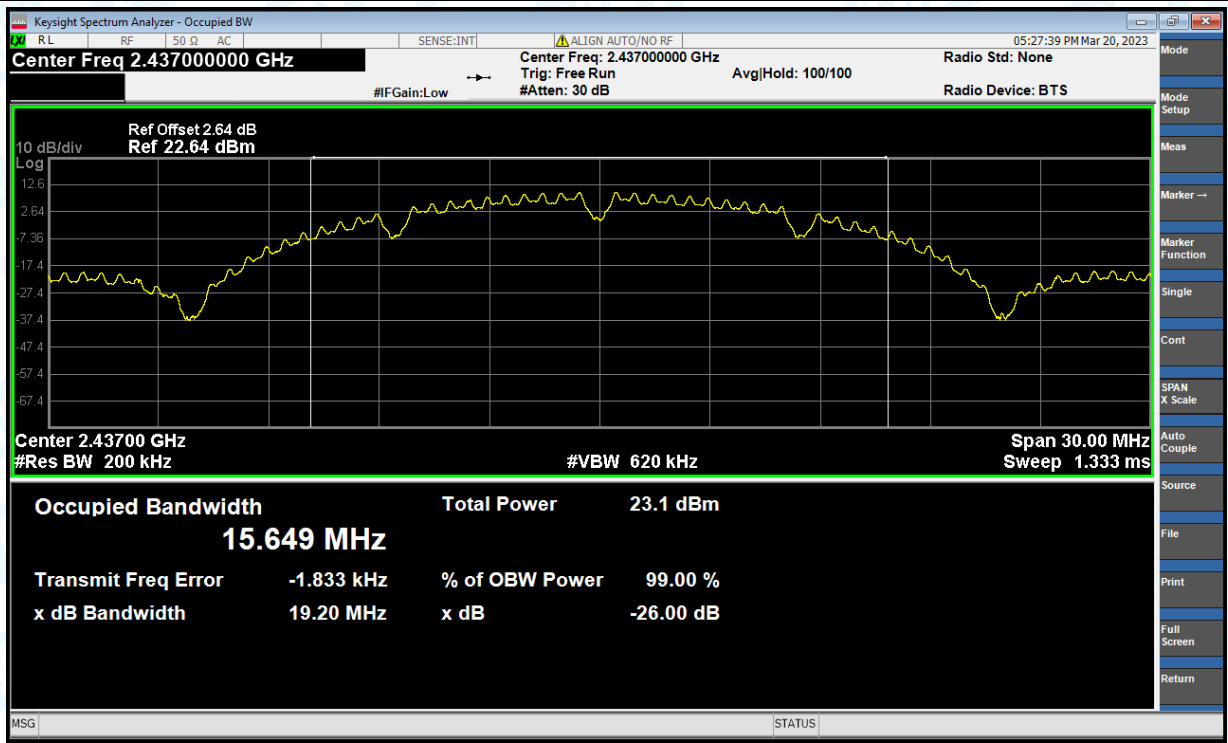


Test Graphs

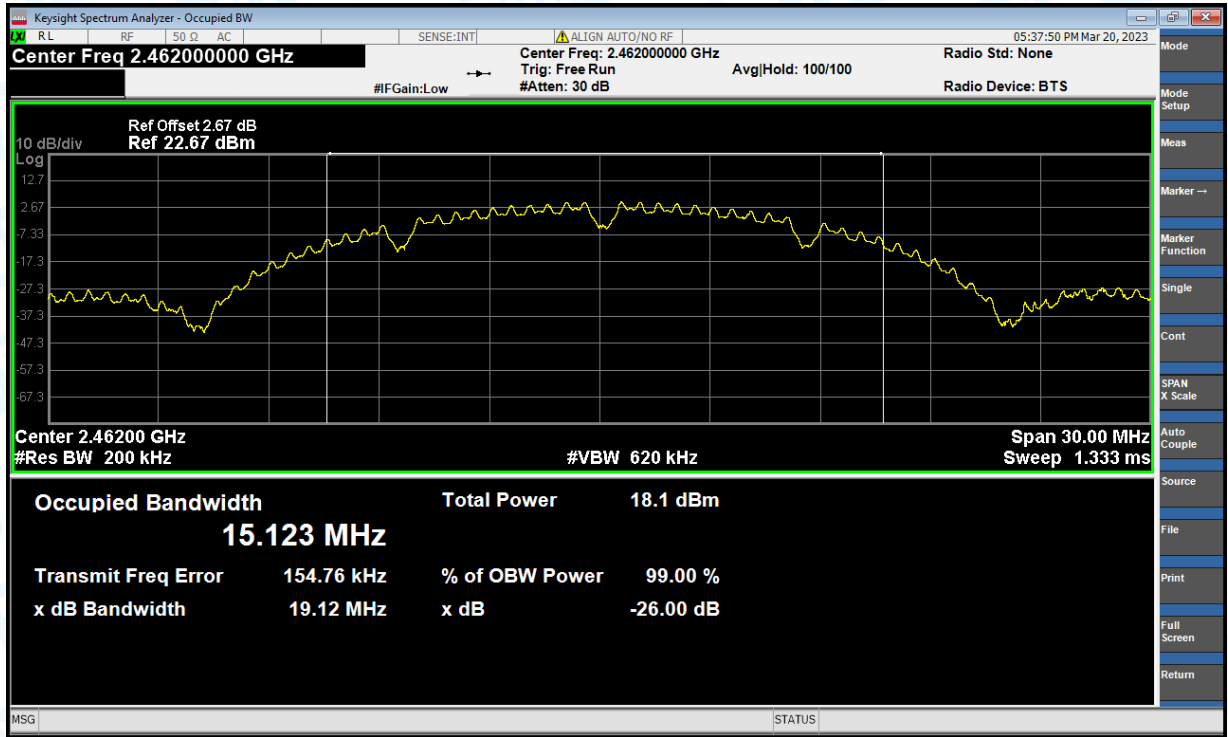
OBW NVNT b 2412MHz Ant1



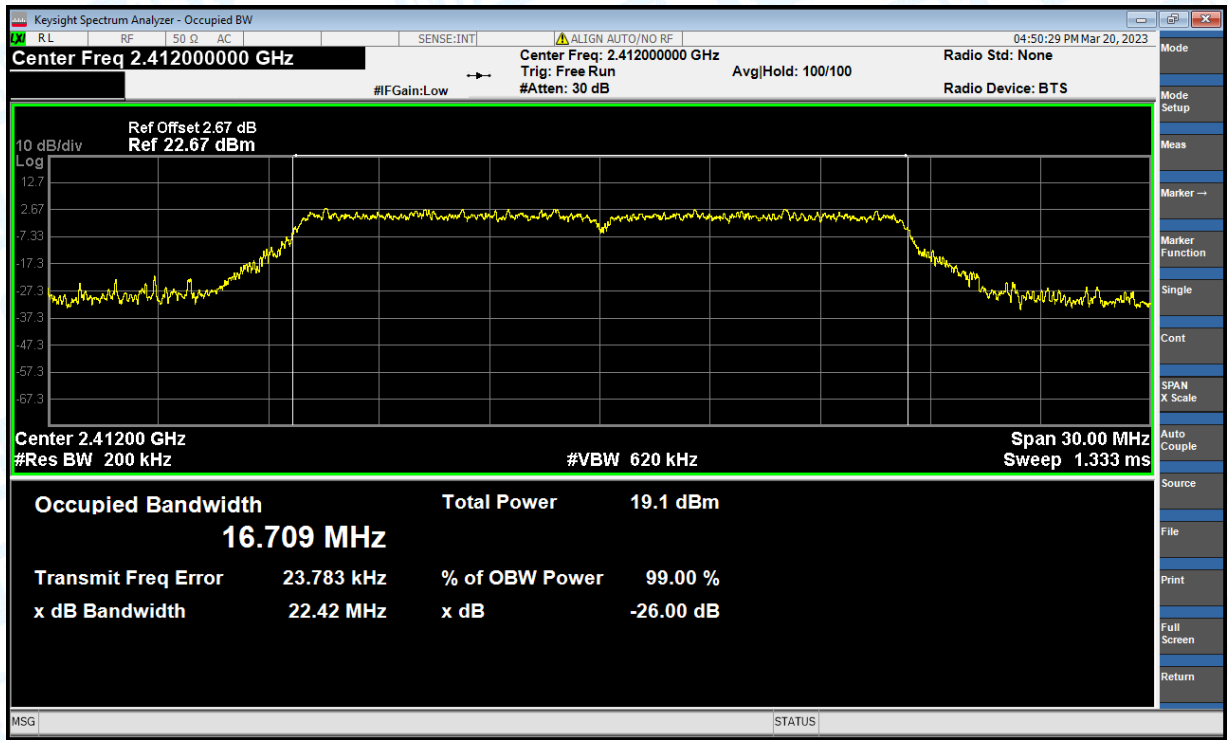
OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1

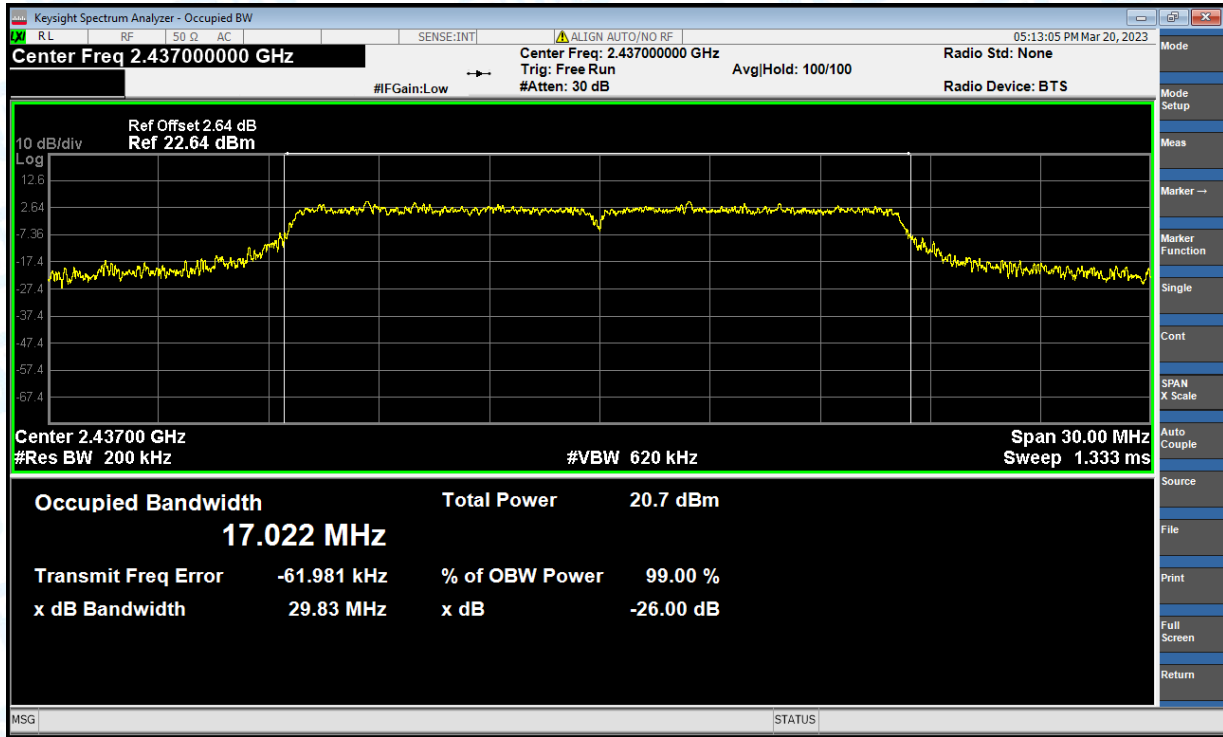


OBW NVNT g 2412MHz Ant1

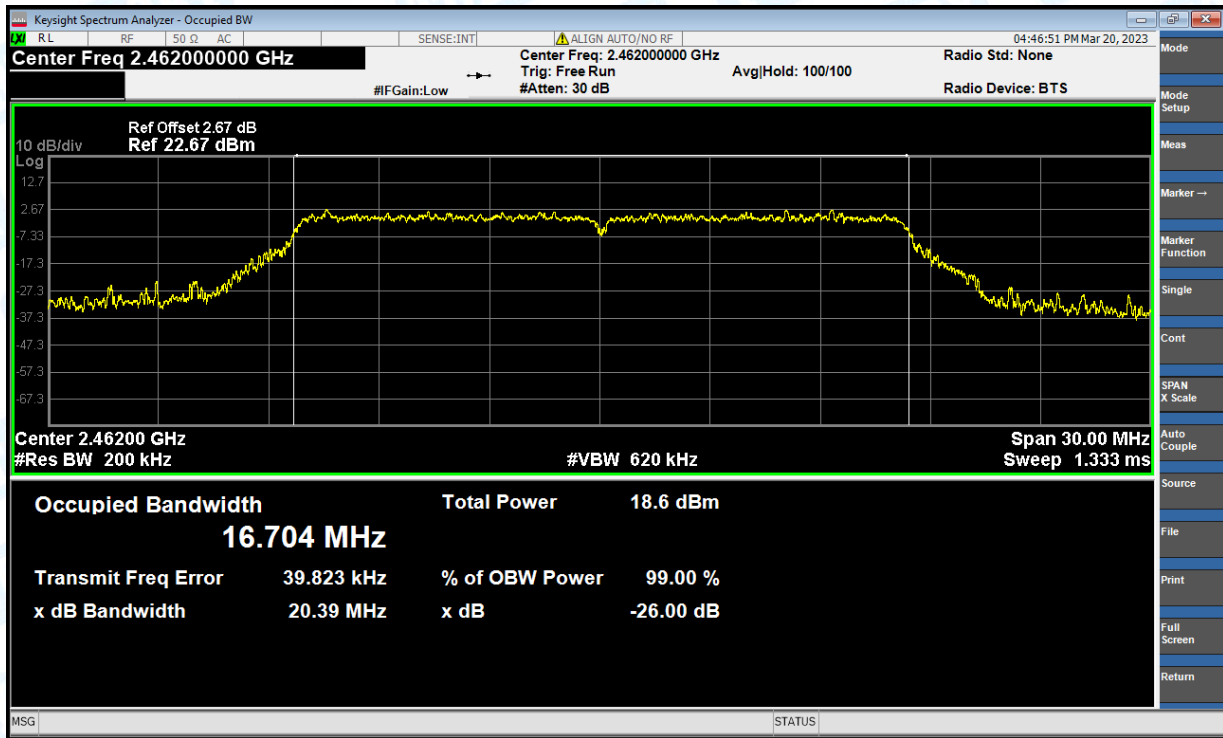




OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1



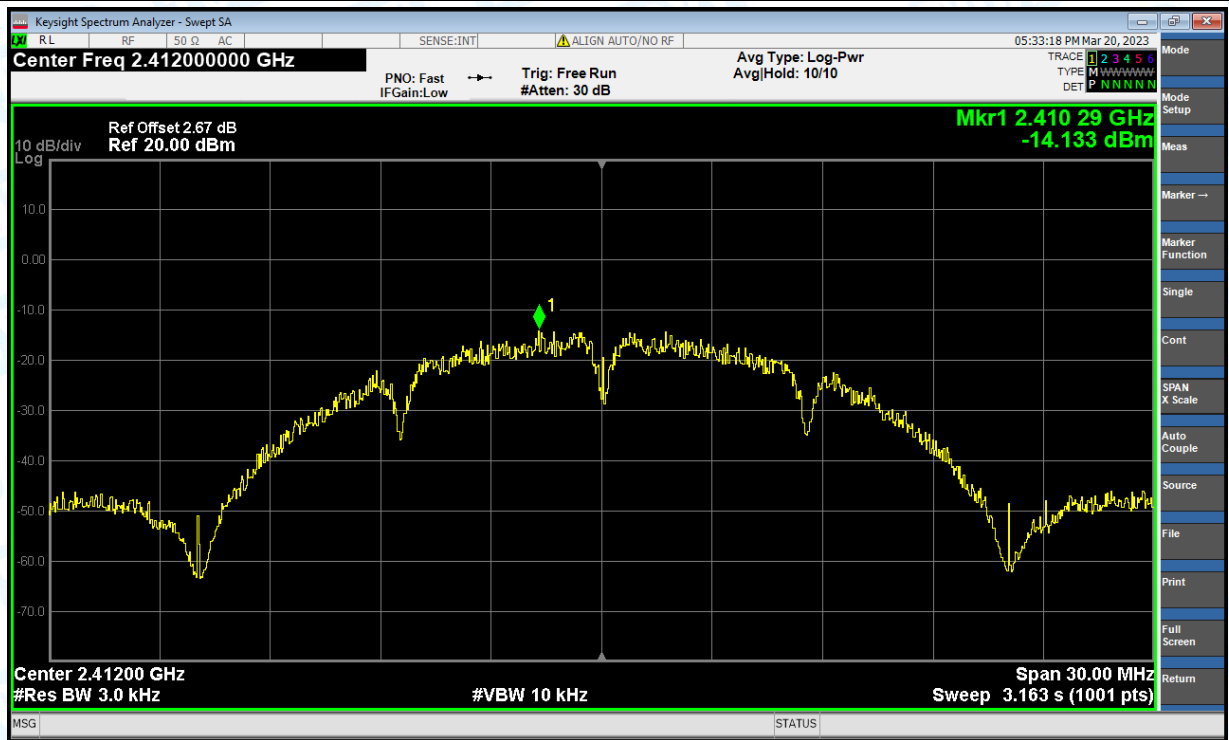
## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-14.133	8	Pass
NVNT	b	2437	Ant1	-7.436	8	Pass
NVNT	b	2462	Ant1	-12.188	8	Pass
NVNT	g	2412	Ant1	-12.92	8	Pass
NVNT	g	2437	Ant1	-10.438	8	Pass
NVNT	g	2462	Ant1	-13.561	8	Pass



Test Graphs

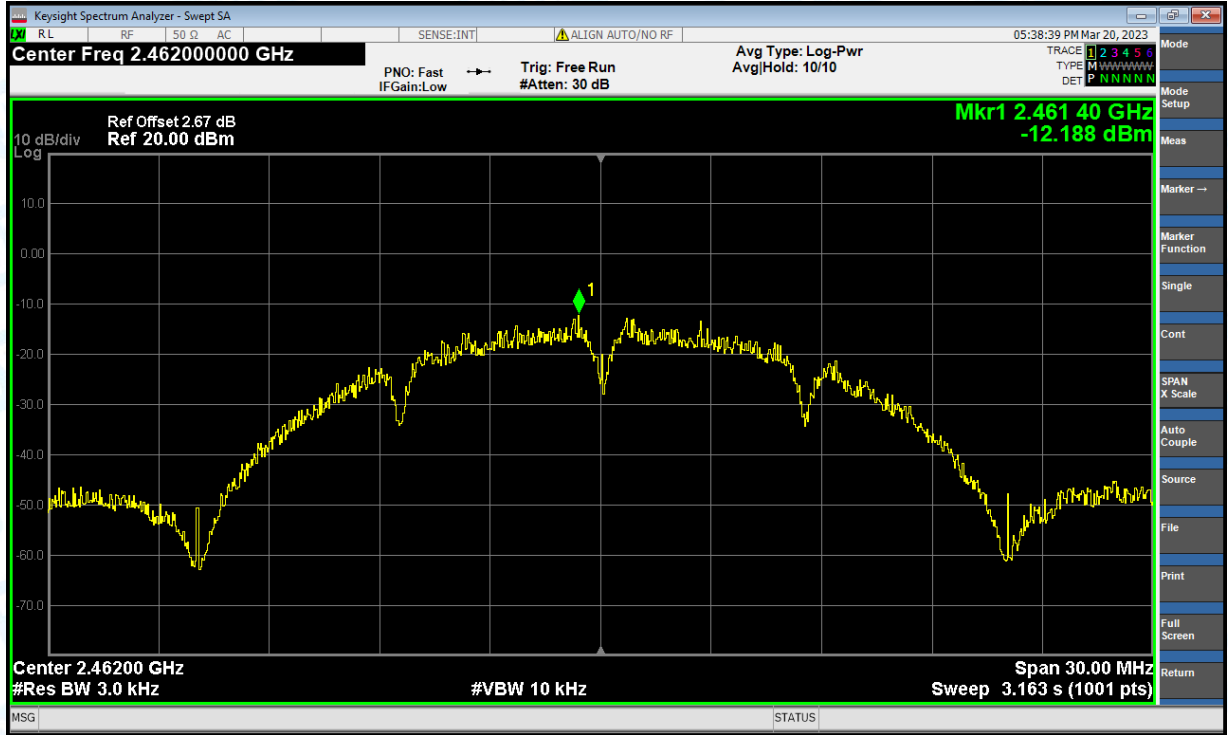
PSD NVNT b 2412MHz Ant1



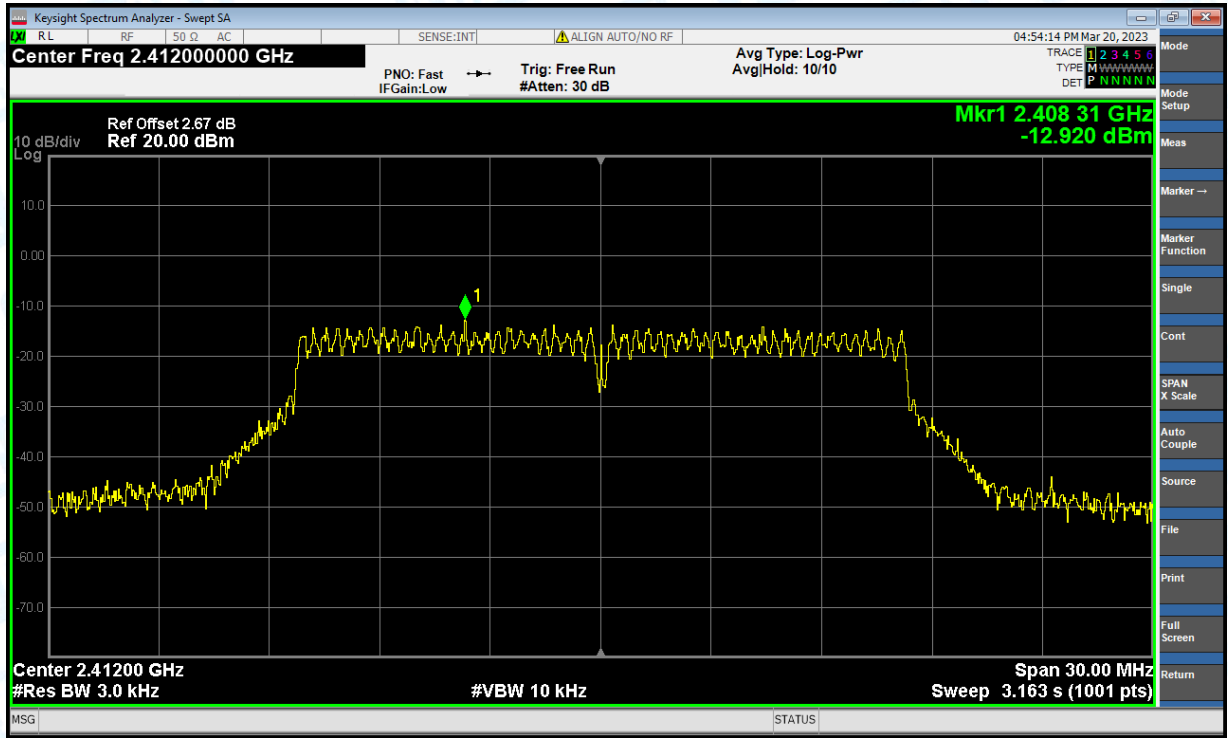
PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1

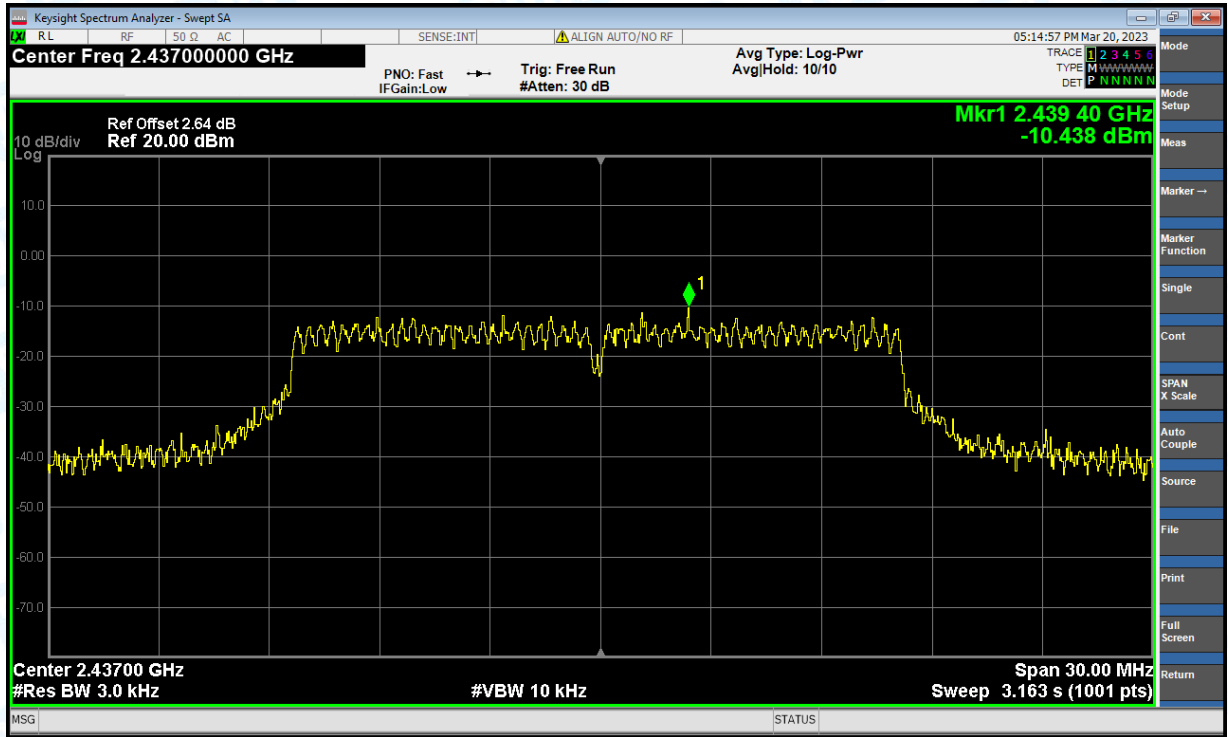


PSD NVNT g 2412MHz Ant1

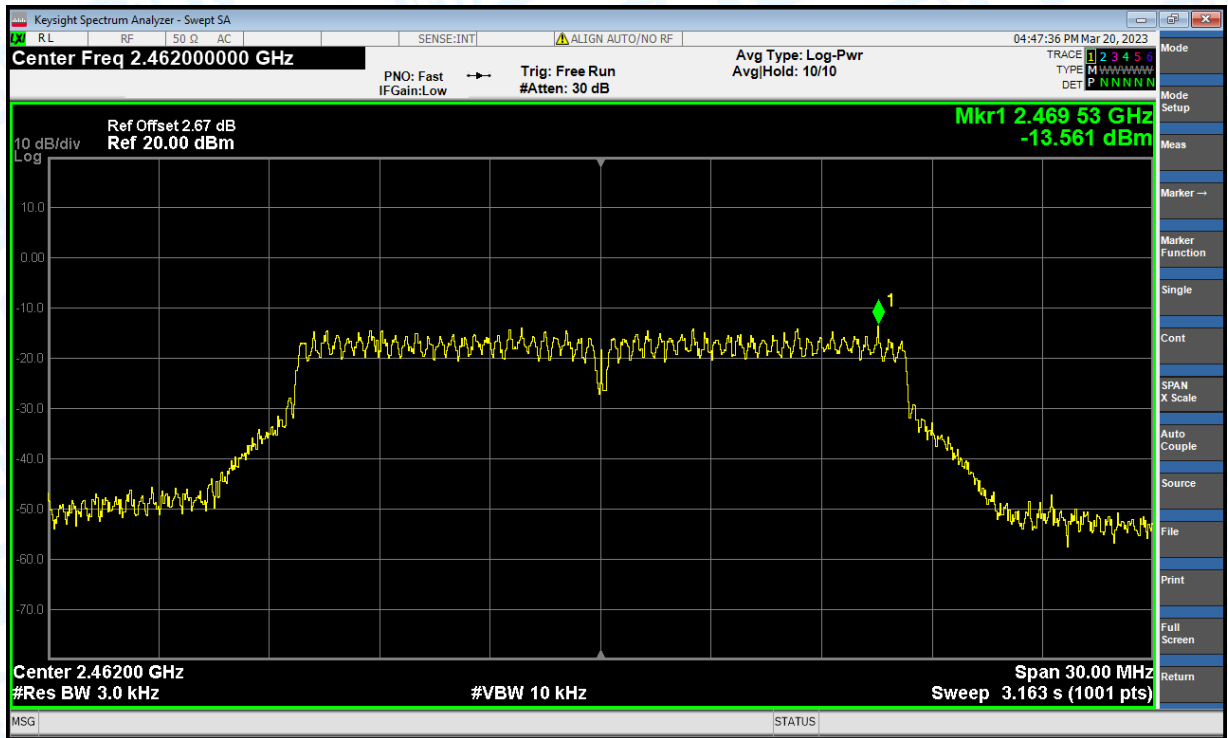




PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



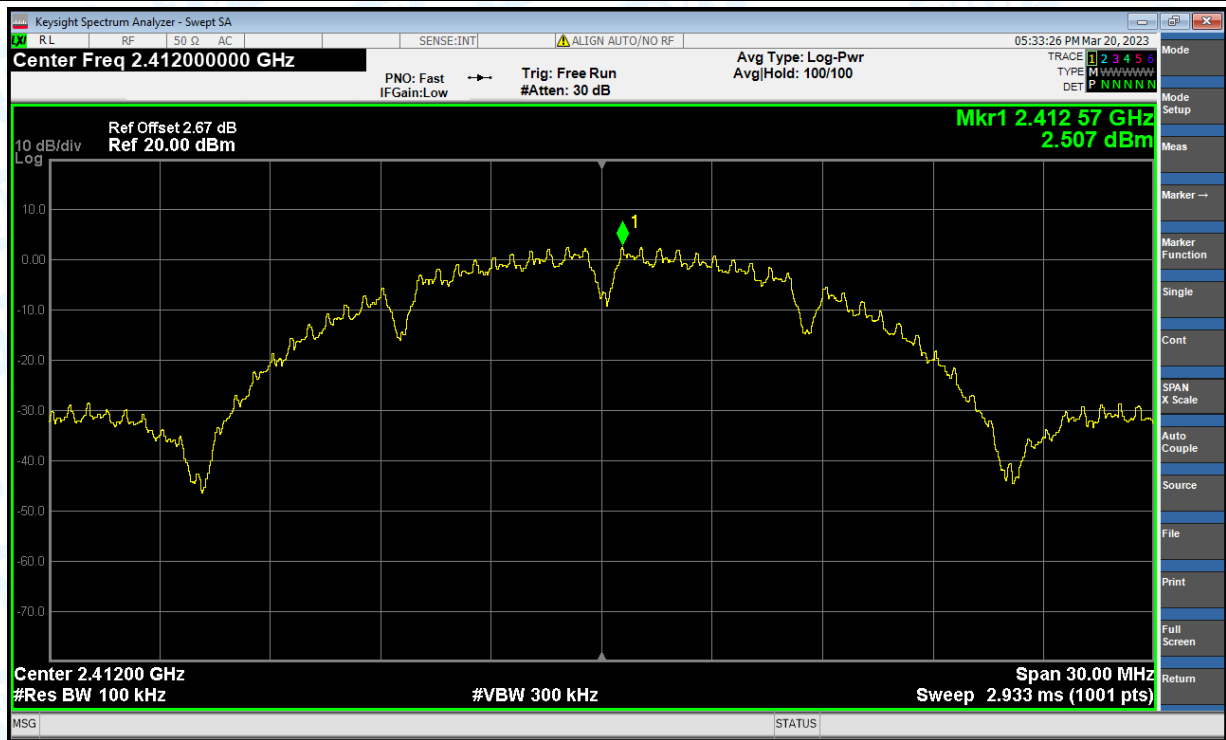
## Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.85	-20	Pass
NVNT	b	2462	Ant1	-53.53	-20	Pass
NVNT	g	2412	Ant1	-42.66	-20	Pass
NVNT	g	2462	Ant1	-46.88	-20	Pass

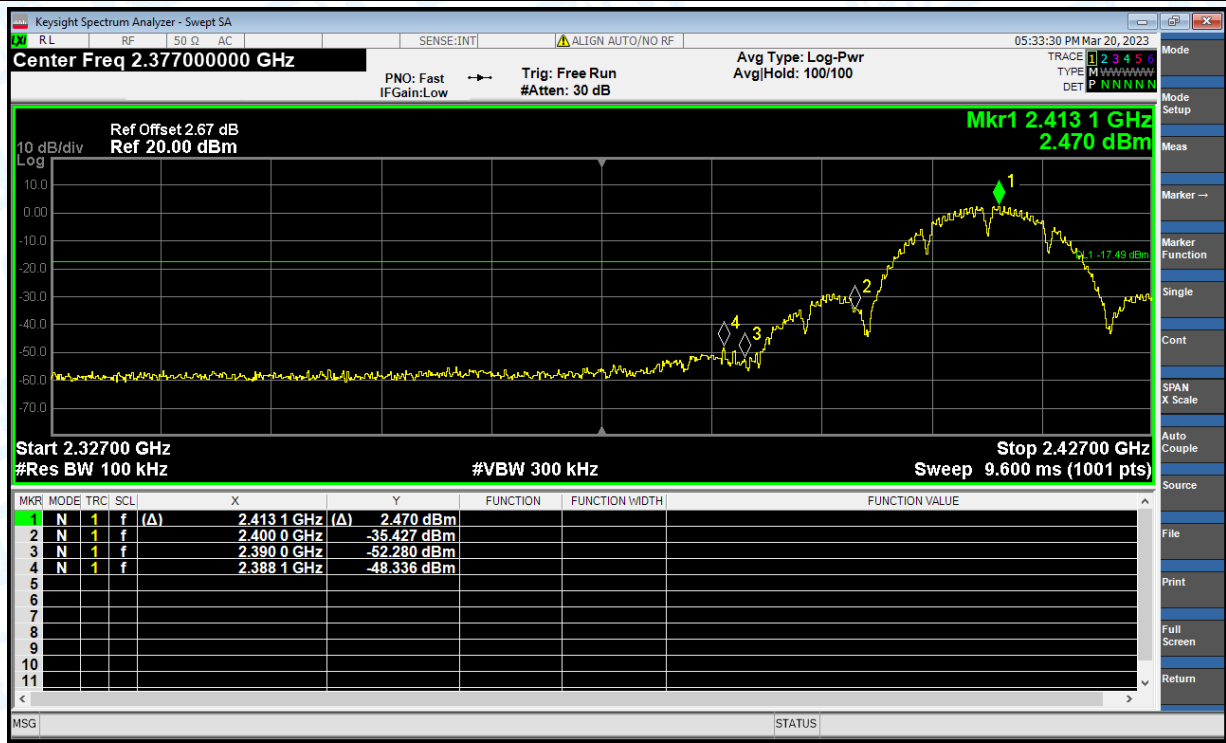


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



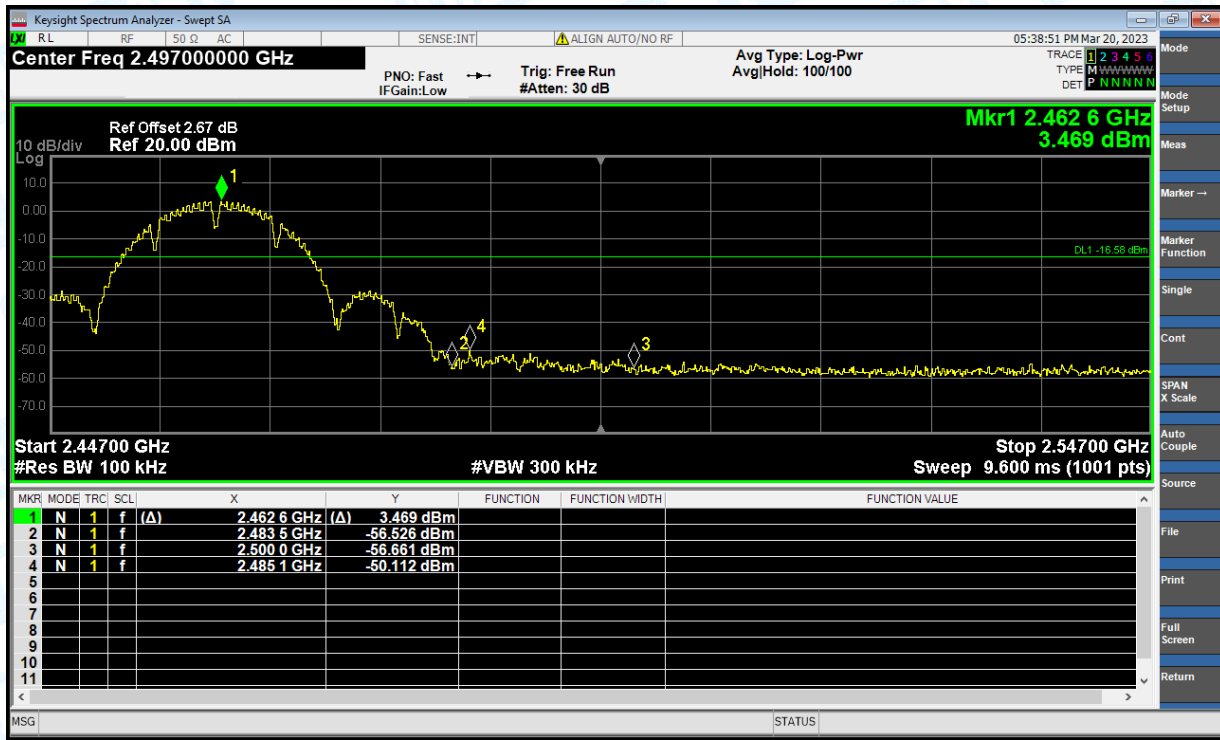
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref

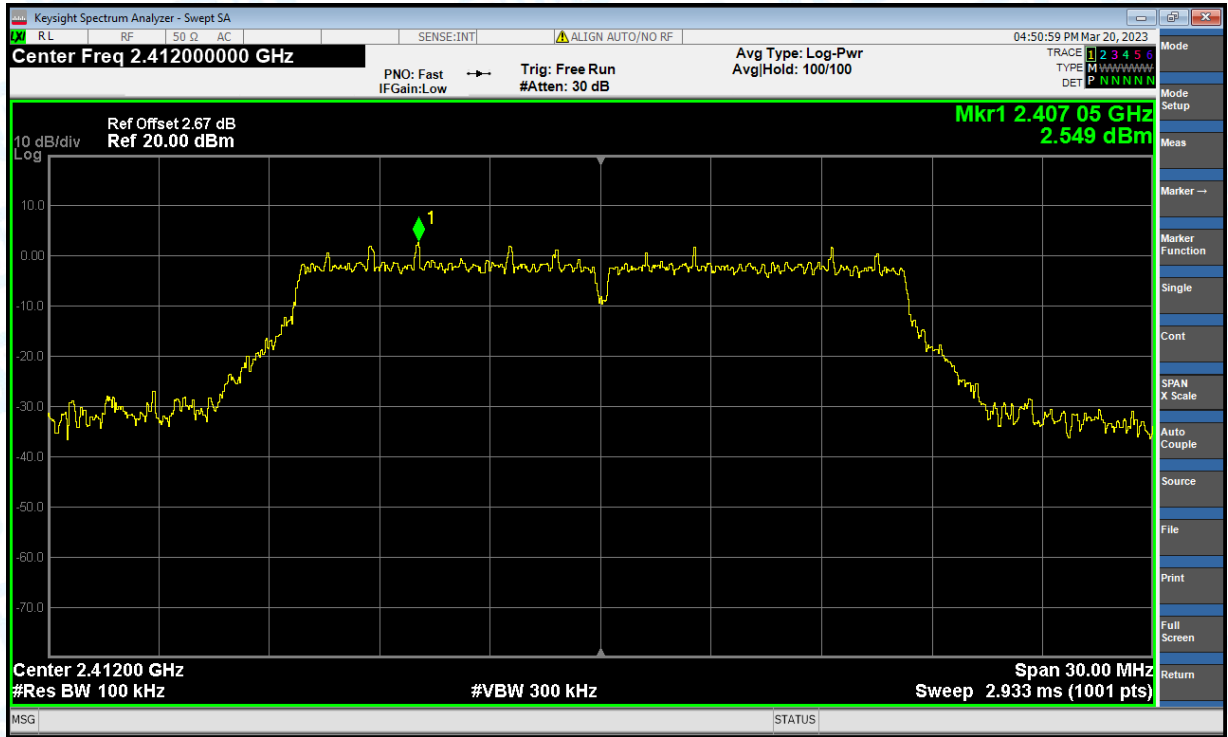


Band Edge NVNT b 2462MHz Ant1 Emission

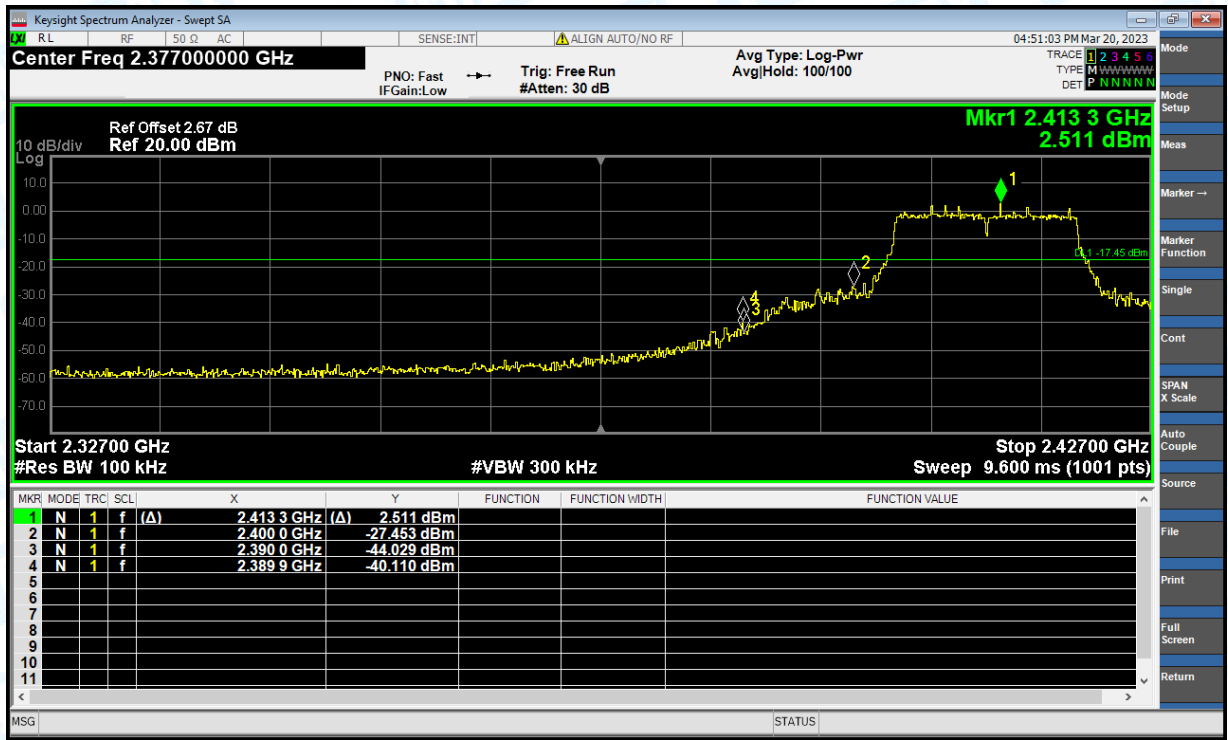




Band Edge NVNT g 2412MHz Ant1 Ref



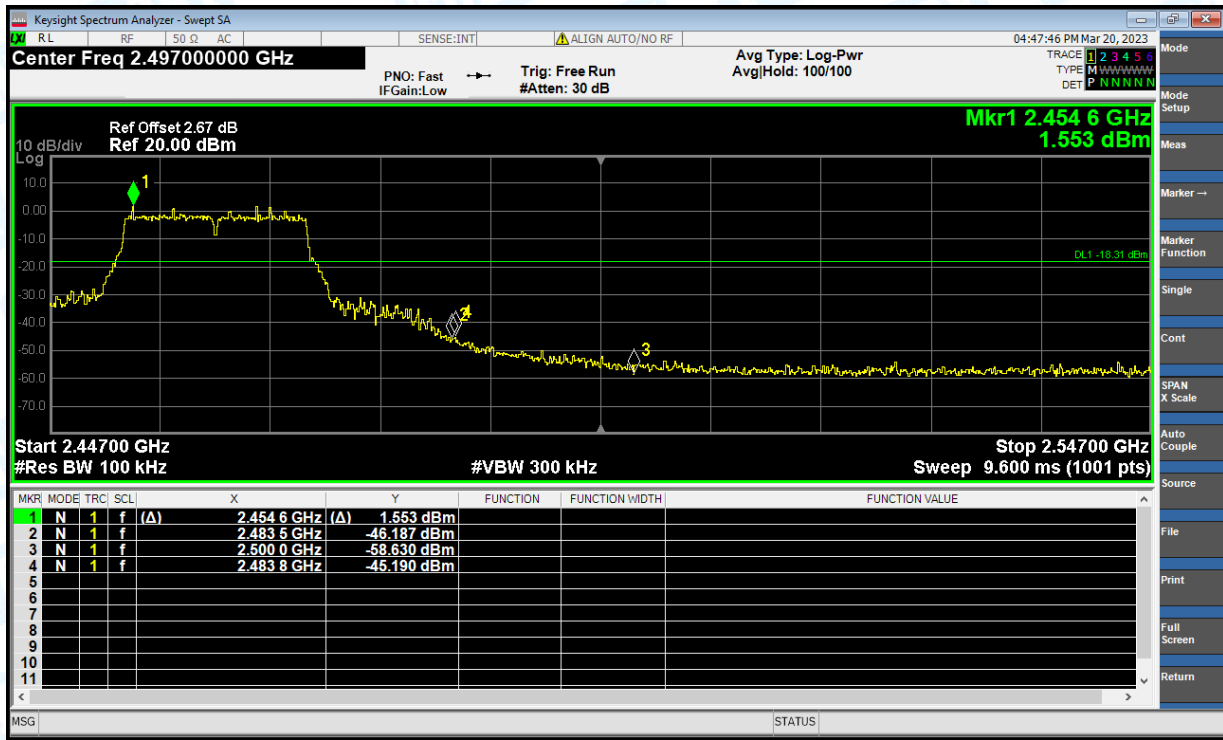
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



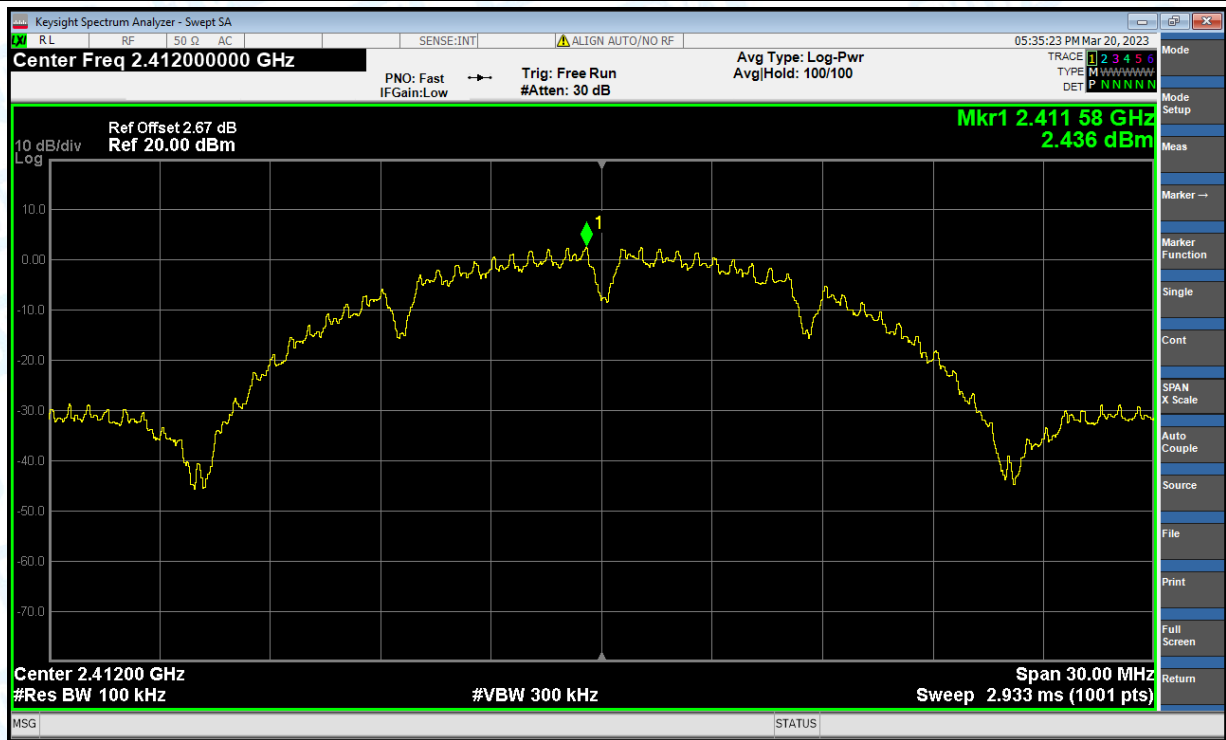


## Conducted RF Spurious Emission

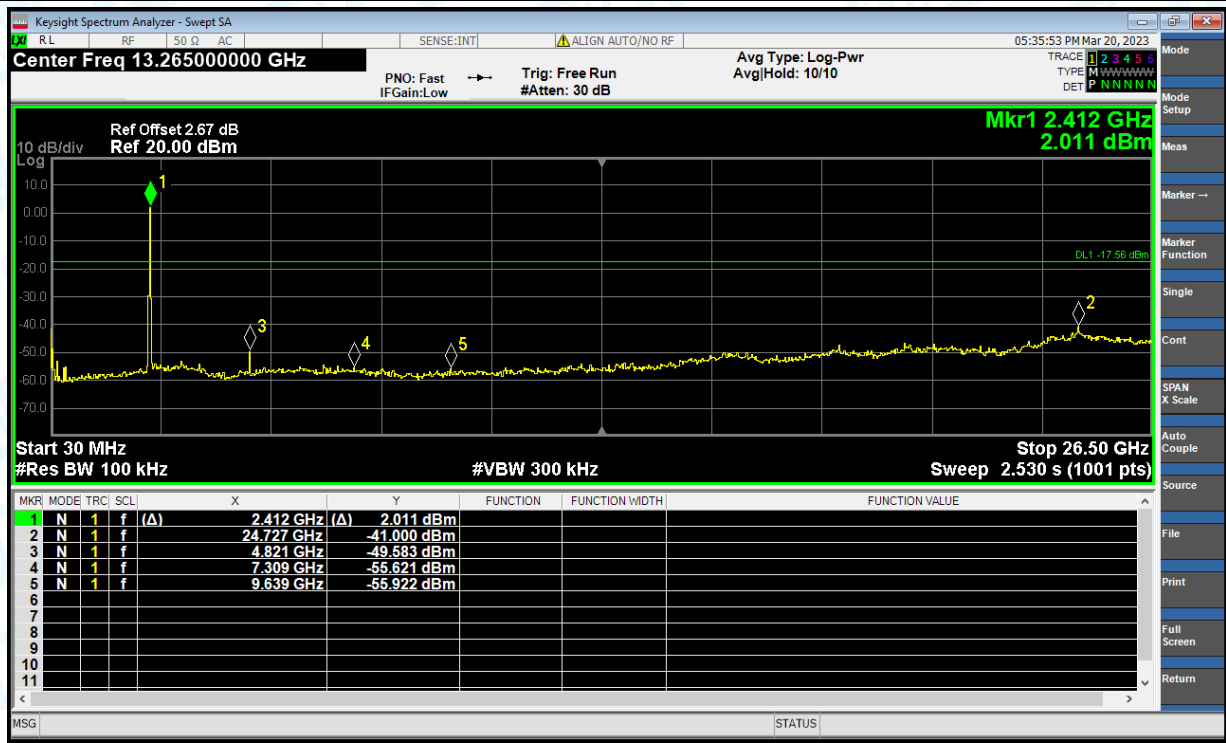
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.44	-20	Pass
NVNT	b	2437	Ant1	-49.74	-20	Pass
NVNT	b	2462	Ant1	-44.8	-20	Pass
NVNT	g	2412	Ant1	-44.42	-20	Pass
NVNT	g	2437	Ant1	-45.08	-20	Pass
NVNT	g	2462	Ant1	-44.07	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

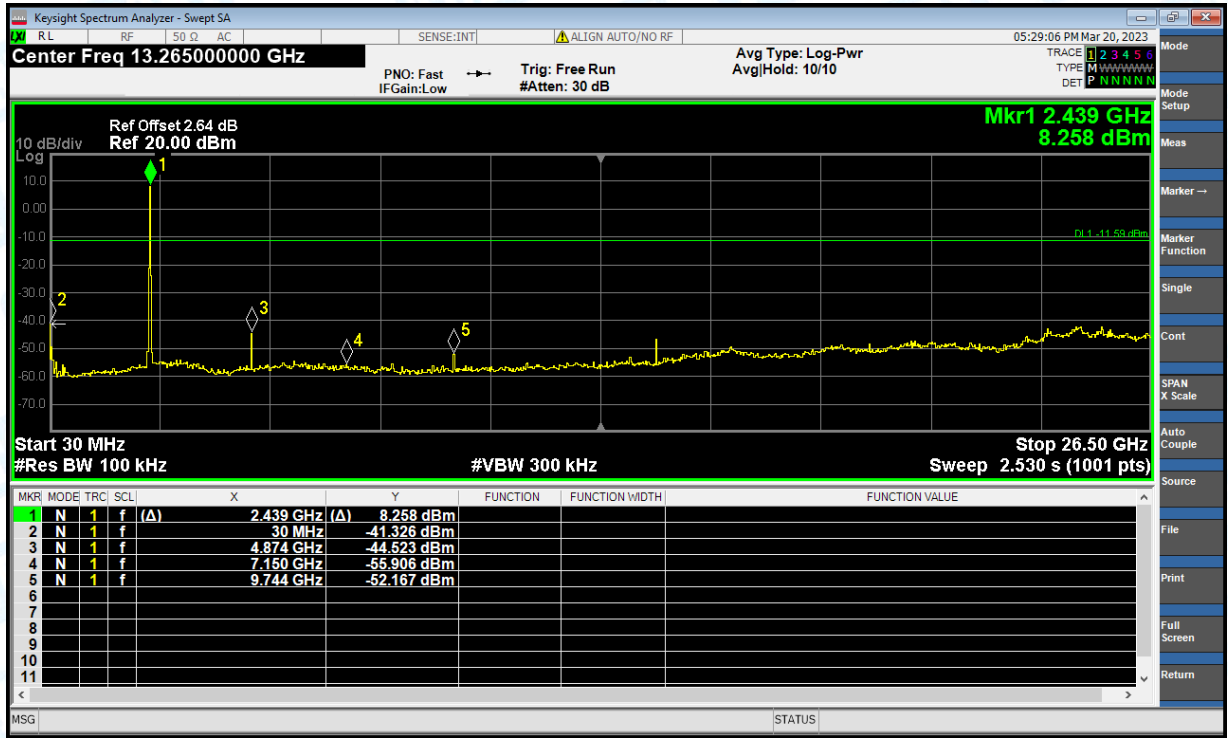




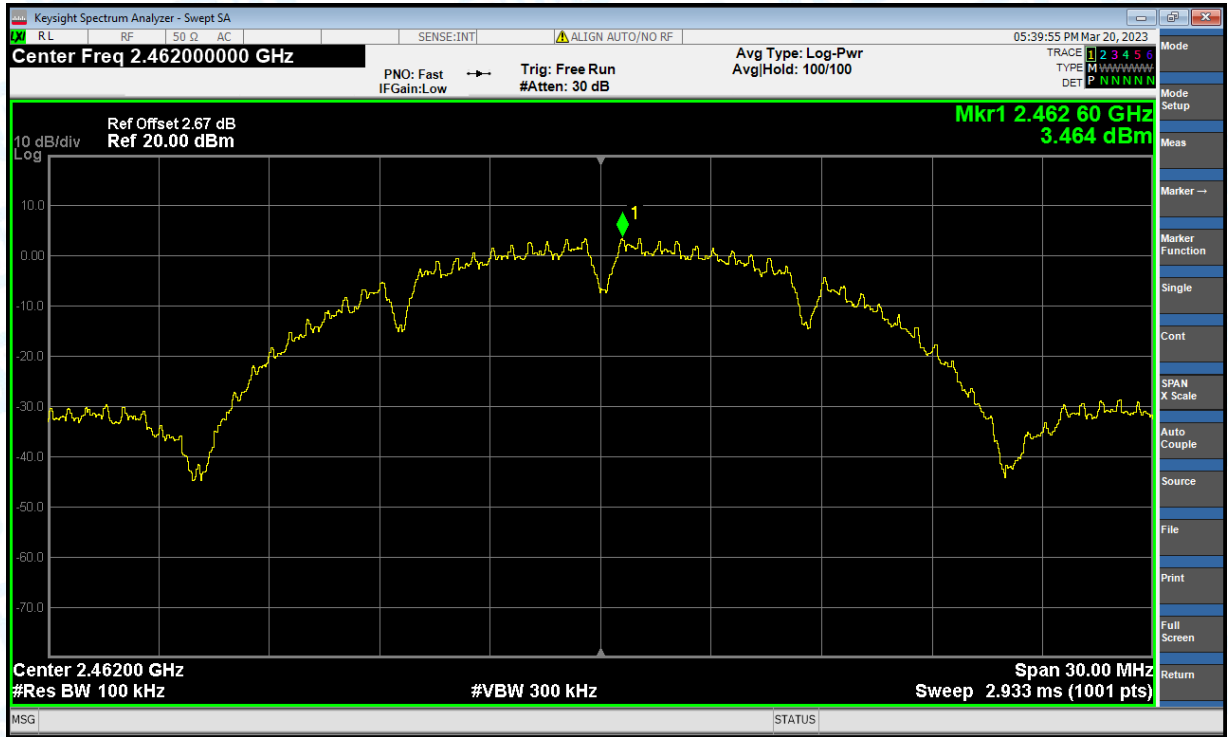
Tx. Spurious NVNT b 2437MHz Ant1 Ref



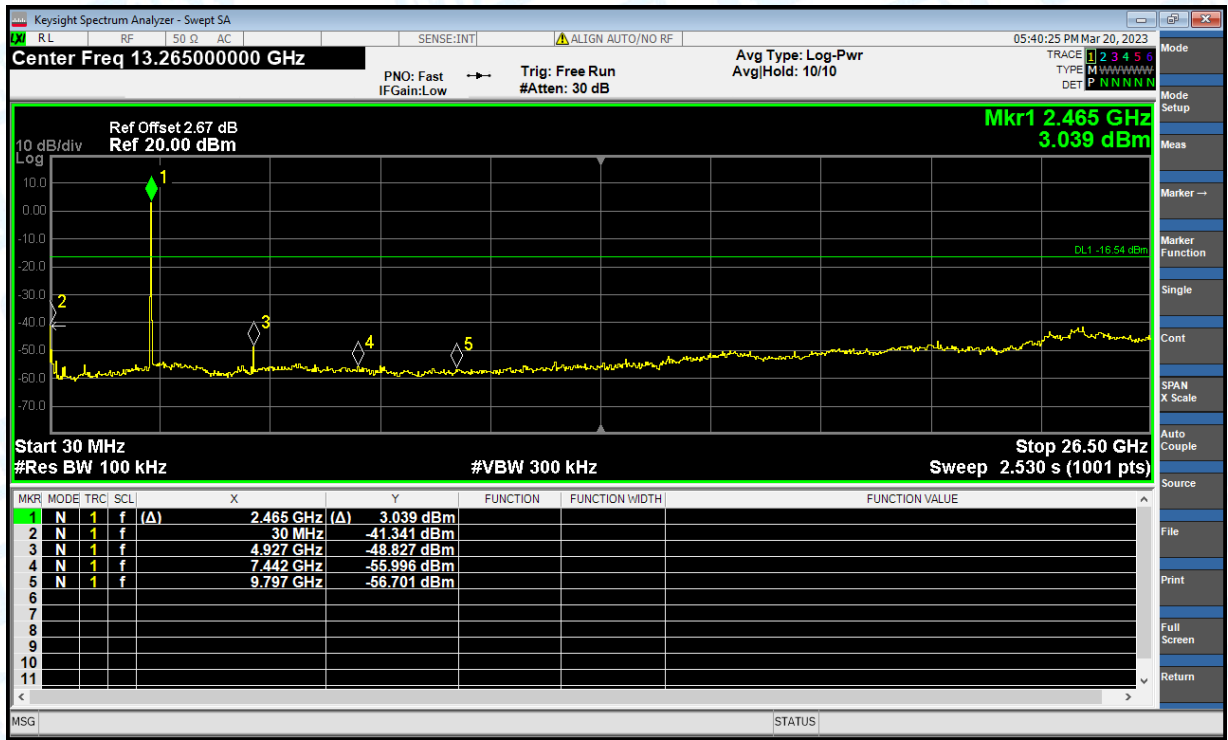
Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref

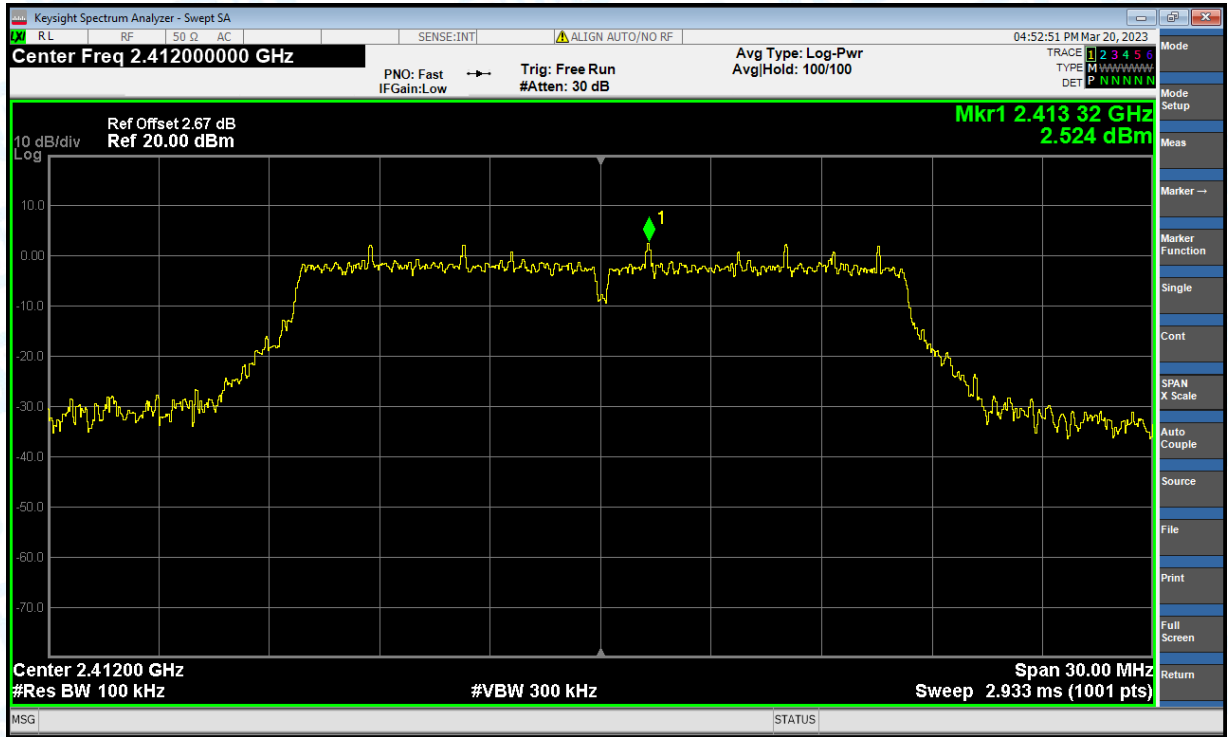


Tx. Spurious NVNT b 2462MHz Ant1 Emission

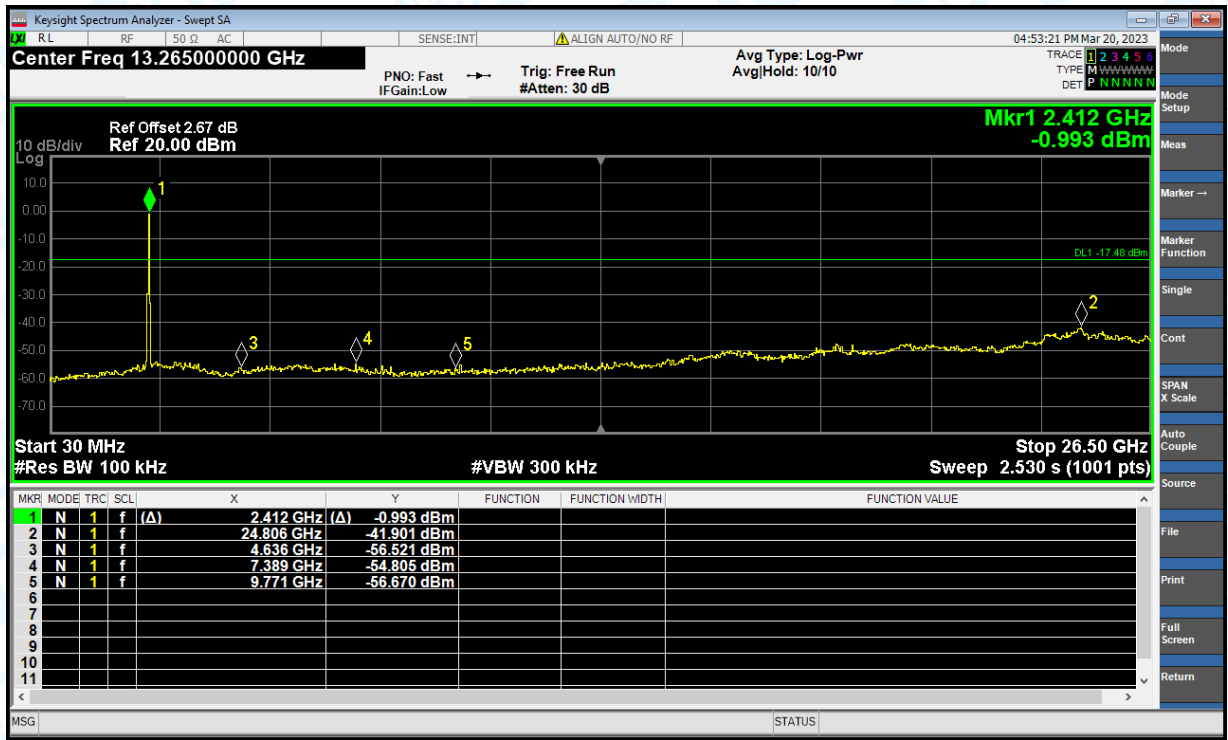




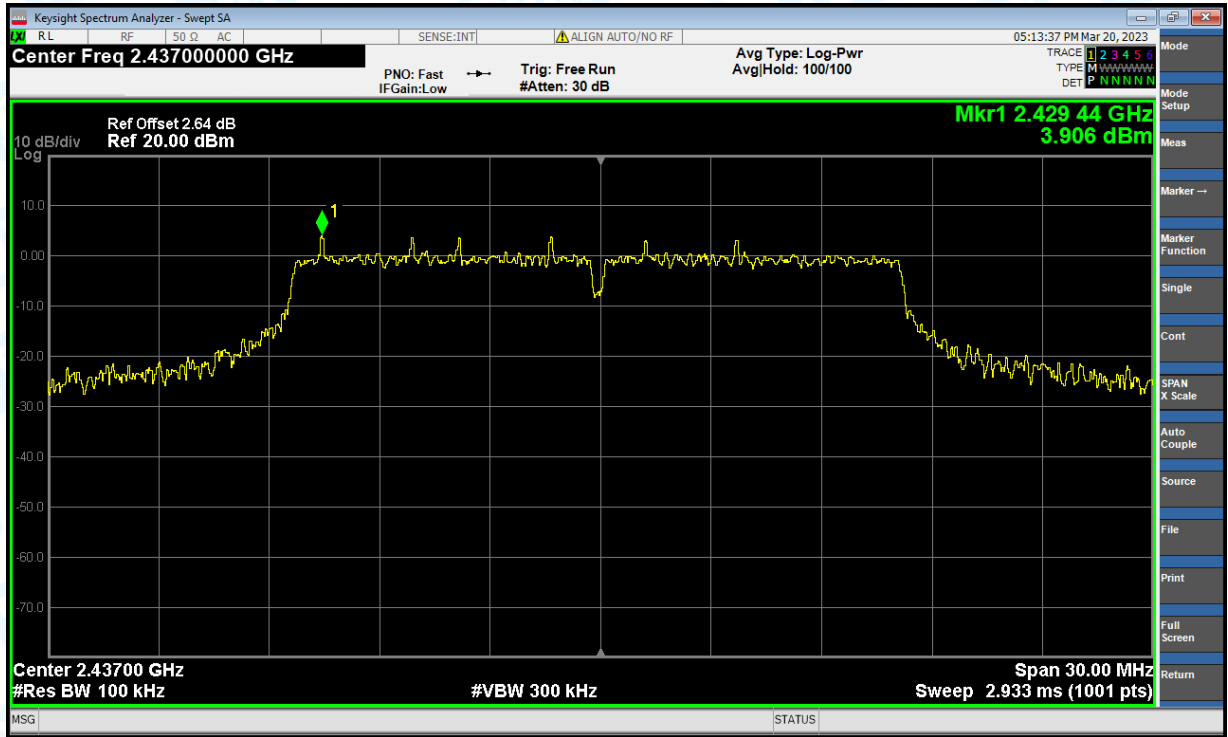
Tx. Spurious NVNT g 2412MHz Ant1 Ref



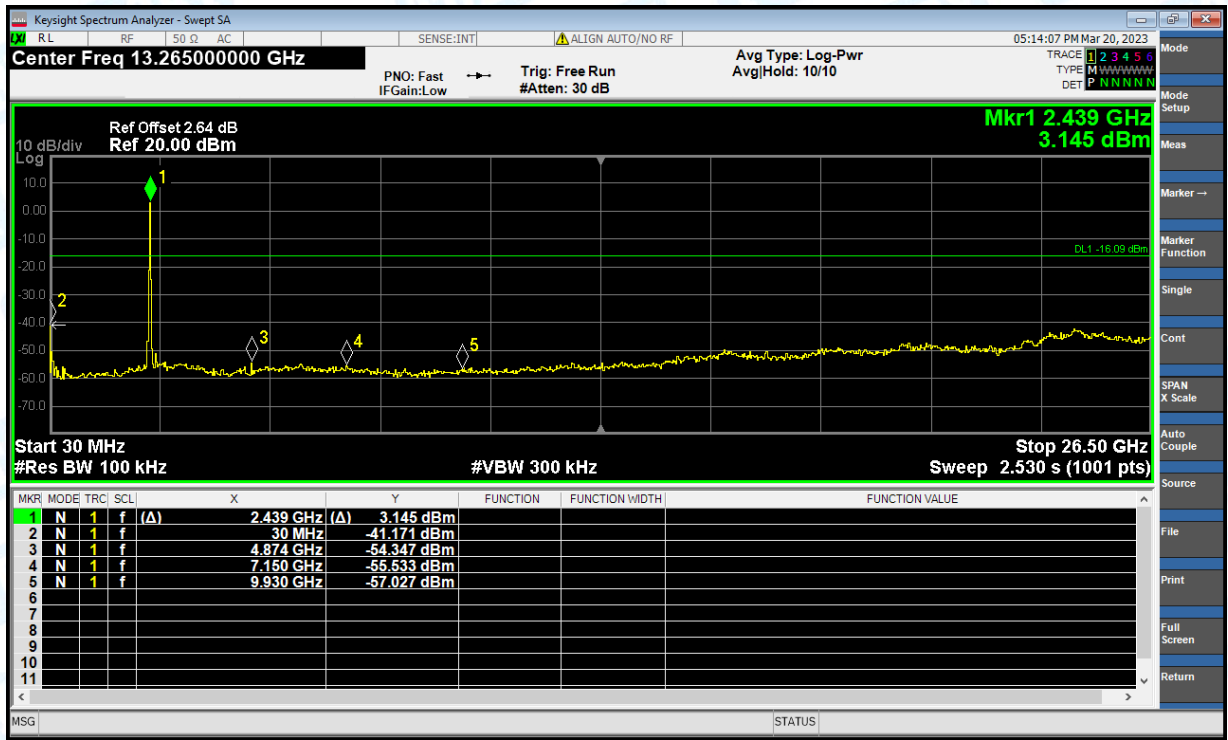
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref

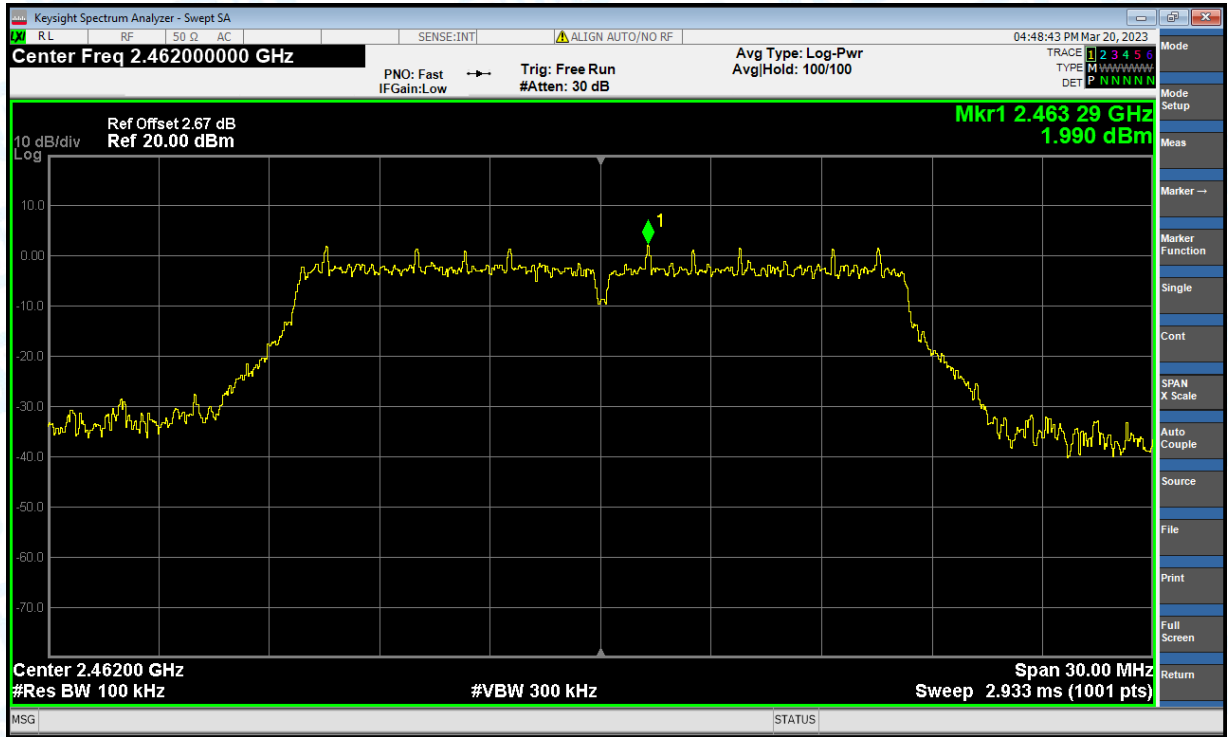


Tx. Spurious NVNT g 2437MHz Ant1 Emission

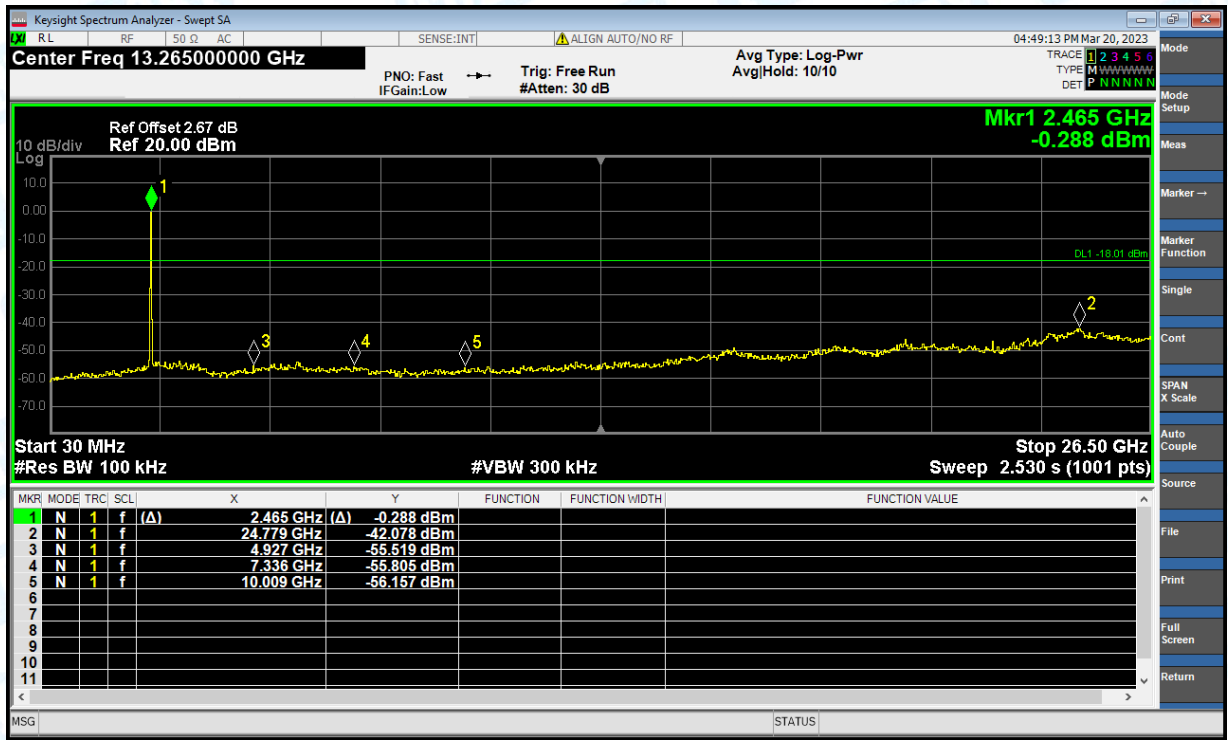




Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



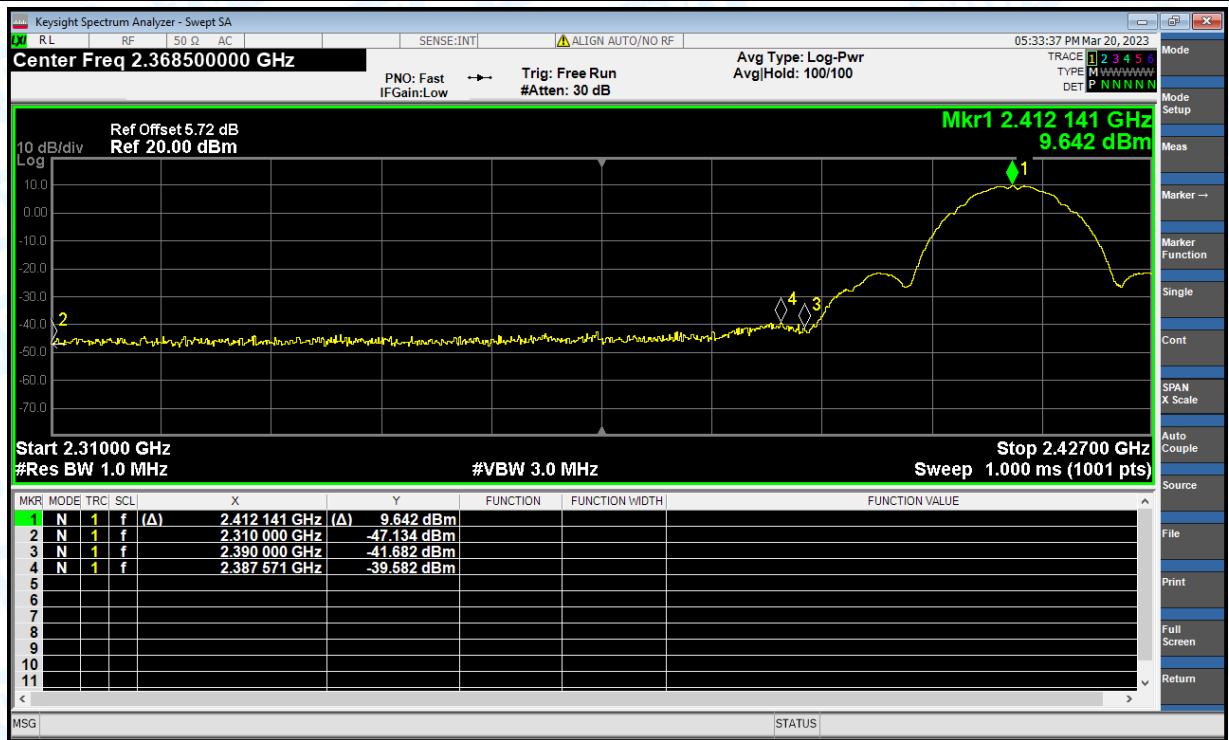
## Restrict Band

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	-47.13	3.05	51.18	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-56.3	3.05	42.01	Average	54	Pass
NVNT	b	2412	Ant1	2387.571	-39.58	3.05	58.73	Peak	74	Pass
NVNT	b	2412	Ant1	2386.518	-48.32	3.05	49.99	Average	54	Pass
NVNT	b	2412	Ant1	2390	-41.68	3.05	56.63	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-51.69	3.05	46.62	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-40.8	3.05	57.51	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-51.27	3.05	47.04	Average	54	Pass
NVNT	b	2462	Ant1	2488.234	-39.48	3.05	58.83	Peak	74	Pass
NVNT	b	2462	Ant1	2485.107	-50.24	3.05	48.07	Average	54	Pass
NVNT	b	2462	Ant1	2500	-44.12	3.05	54.19	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-54.23	3.05	44.08	Average	54	Pass
NVNT	g	2412	Ant1	2310	-45.89	3.05	52.42	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-56.11	3.05	42.2	Average	54	Pass
NVNT	g	2412	Ant1	2389.443	-26.3	3.05	72.01	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-44.57	3.05	53.74	Average	54	Pass
NVNT	g	2412	Ant1	2390	-31.76	3.05	66.55	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-44.34	3.05	53.97	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-33.04	3.05	65.27	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-44.86	3.05	53.45	Average	54	Pass
NVNT	g	2462	Ant1	2484.153	-28.9	3.05	69.41	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-44.86	3.05	53.45	Average	54	Pass
NVNT	g	2462	Ant1	2500	-44.11	3.05	54.2	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-53.31	3.05	45	Average	54	Pass

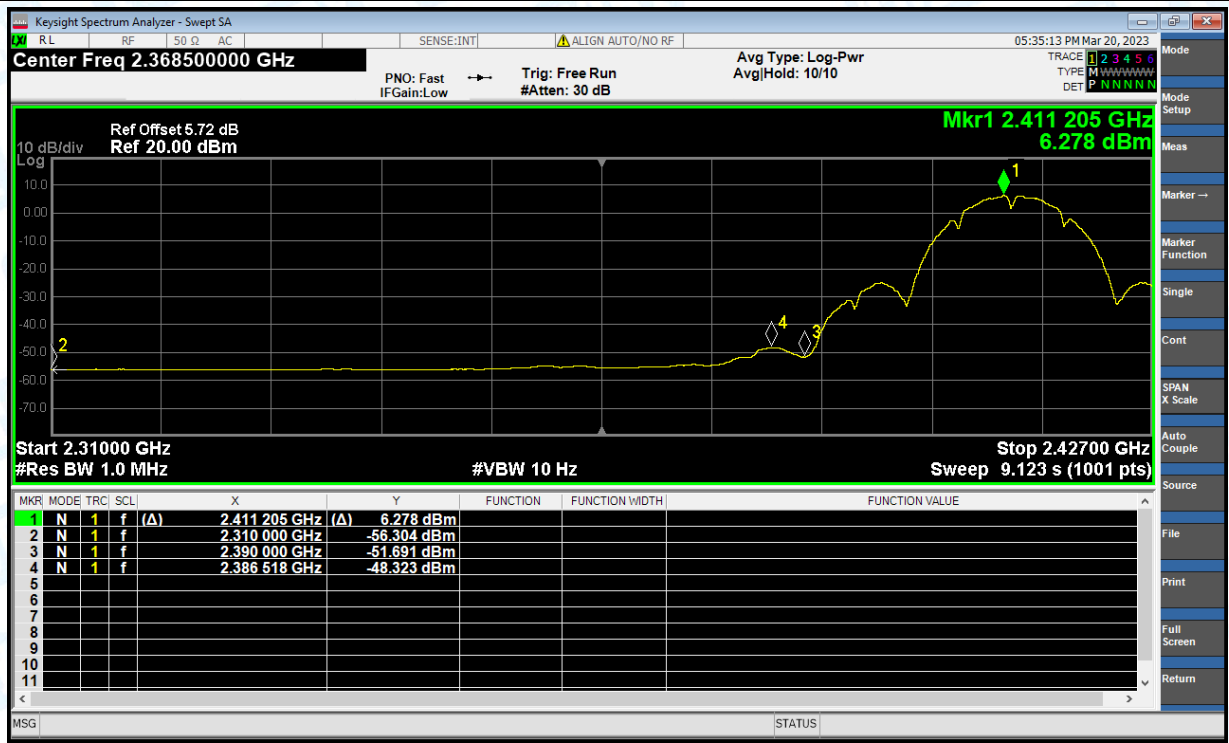


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



Restrict Band NVNT b 2462MHz Ant1 Peak

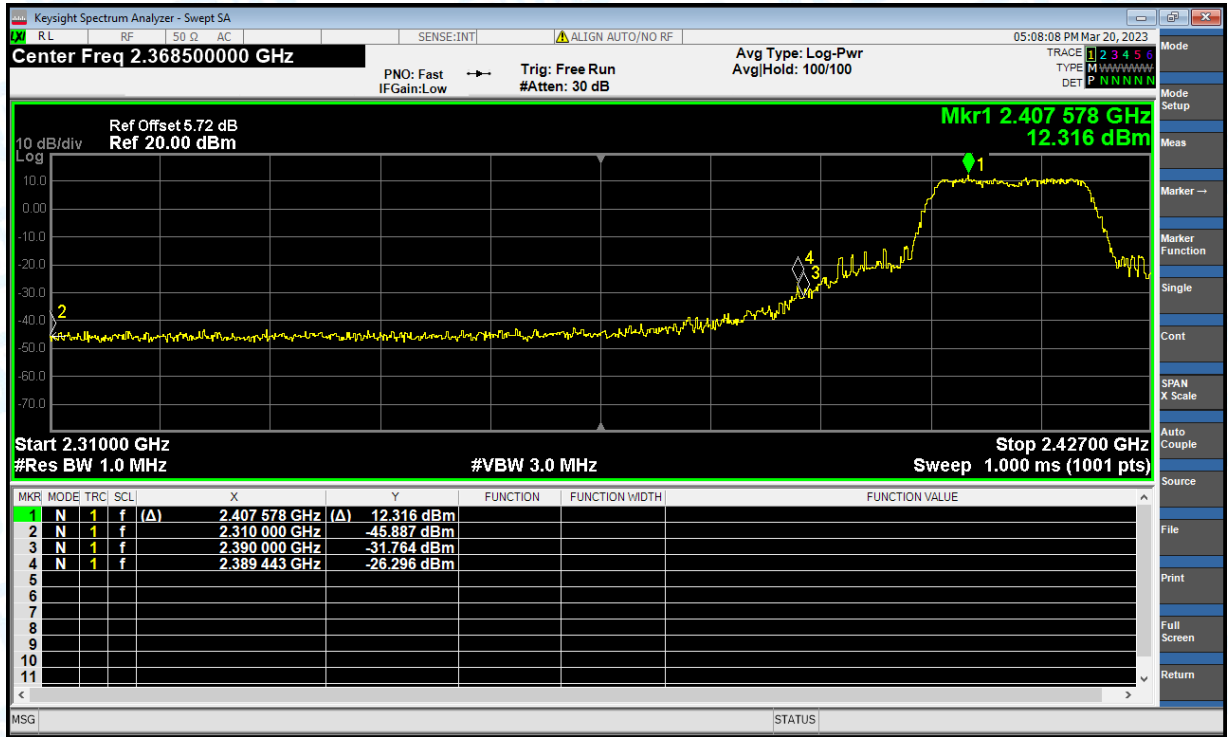


Restrict Band NVNT b 2462MHz Ant1 Average

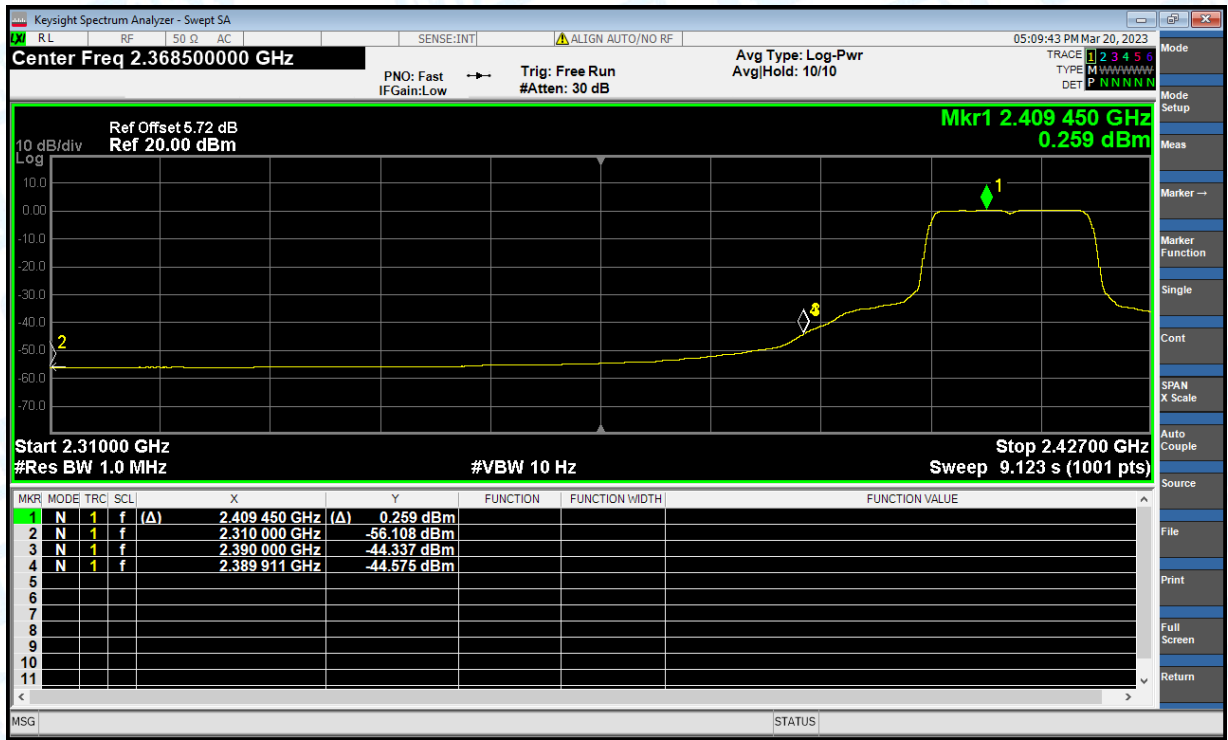




Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average

