

RF Test Data for 2.4G (Conducted Measurements)

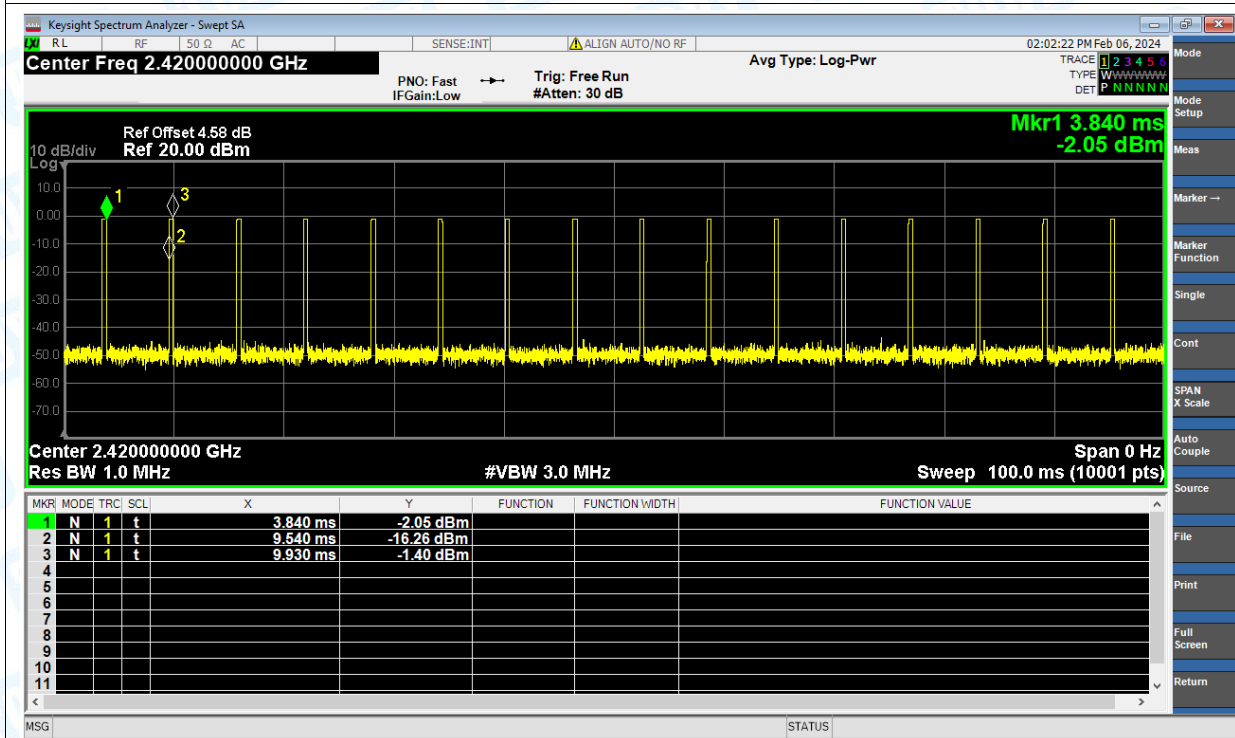
General Description of EUT	
Product Name:	SOLAR PATH LIGHT WITH LINKABLE & PIR SENSOR
Test Model:	ELI1621G
Sample ID:	HC-C-202402-0012-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.2V
Test Engineer:	ZKN ZHOU
Note: For a more detailed features description, please refer to the report TBR-C-202402-0012-2 The report only show the worst case data.	

1. Duty Cycle

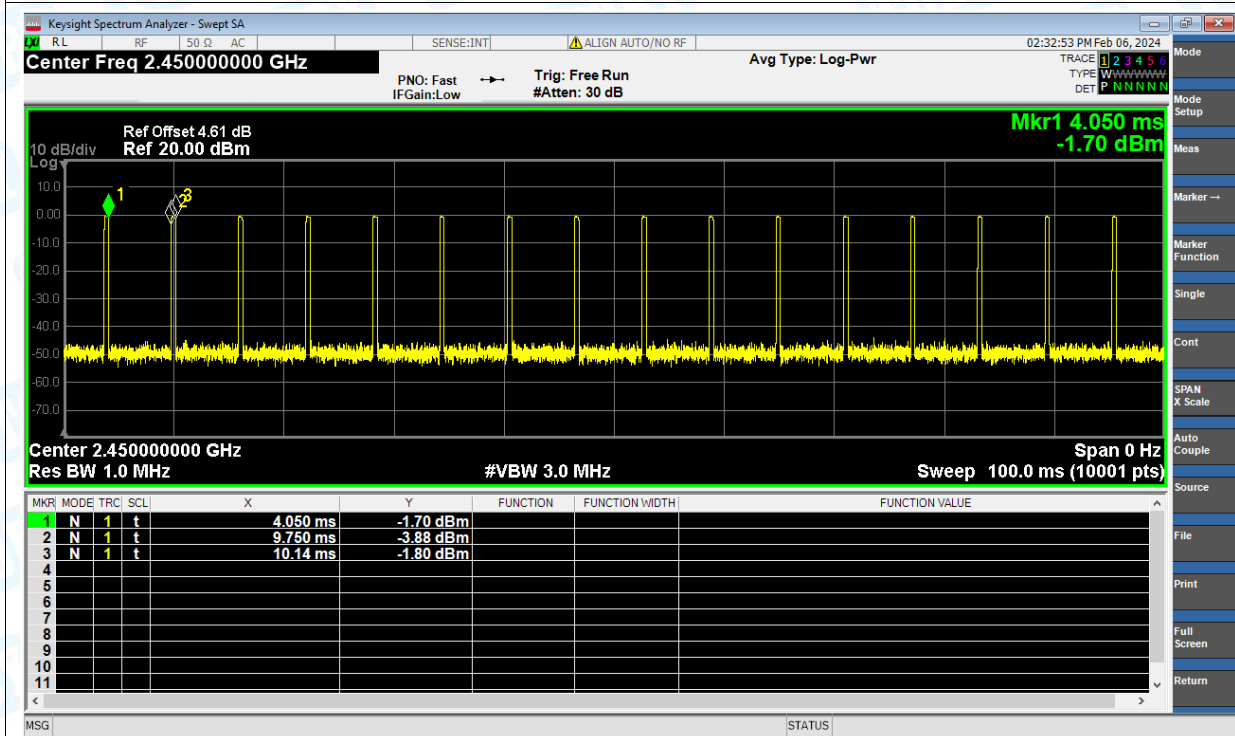
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2420	Ant1	6.4	11.94	2.56
NVNT	2.4G	2450	Ant1	6.4	11.94	2.56
NVNT	2.4G	2470	Ant1	6.56	11.83	2.50

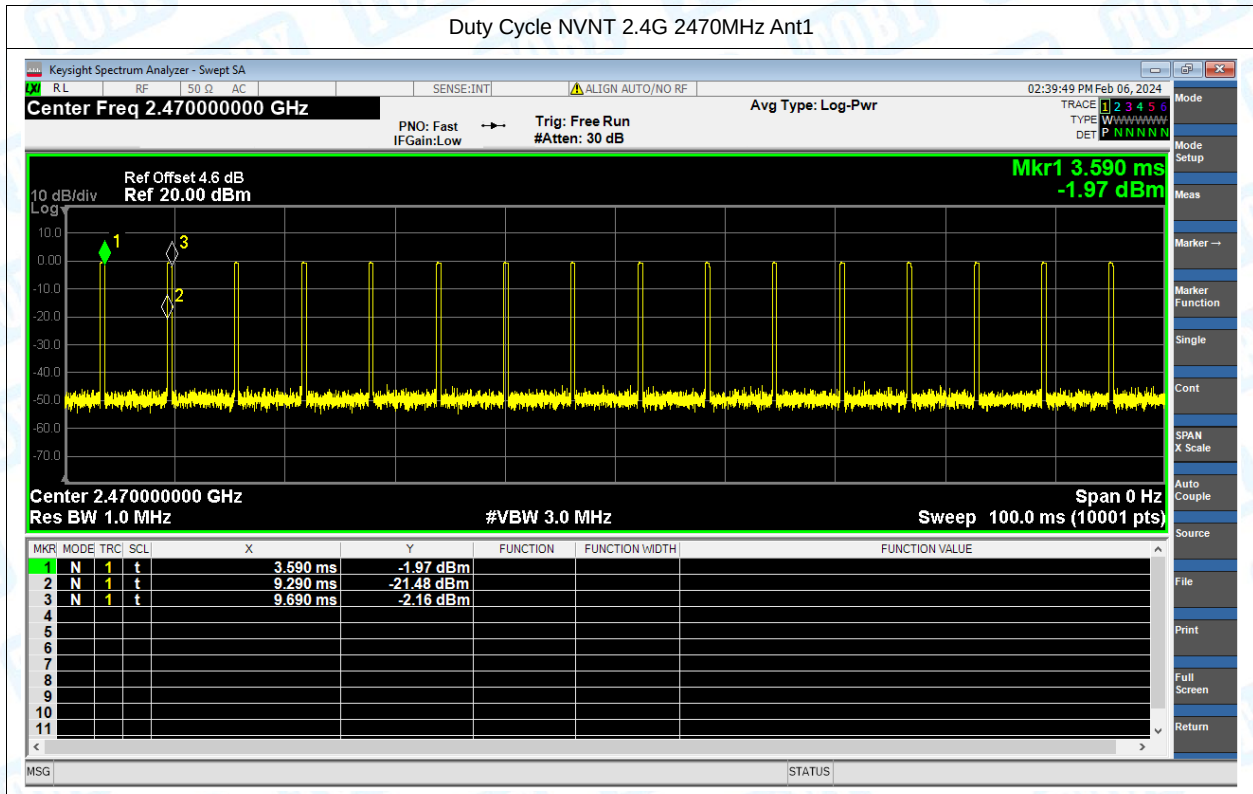
Test Graphs

Duty Cycle NVNT 2.4G 2420MHz Ant1



Duty Cycle NVNT 2.4G 2450MHz Ant1



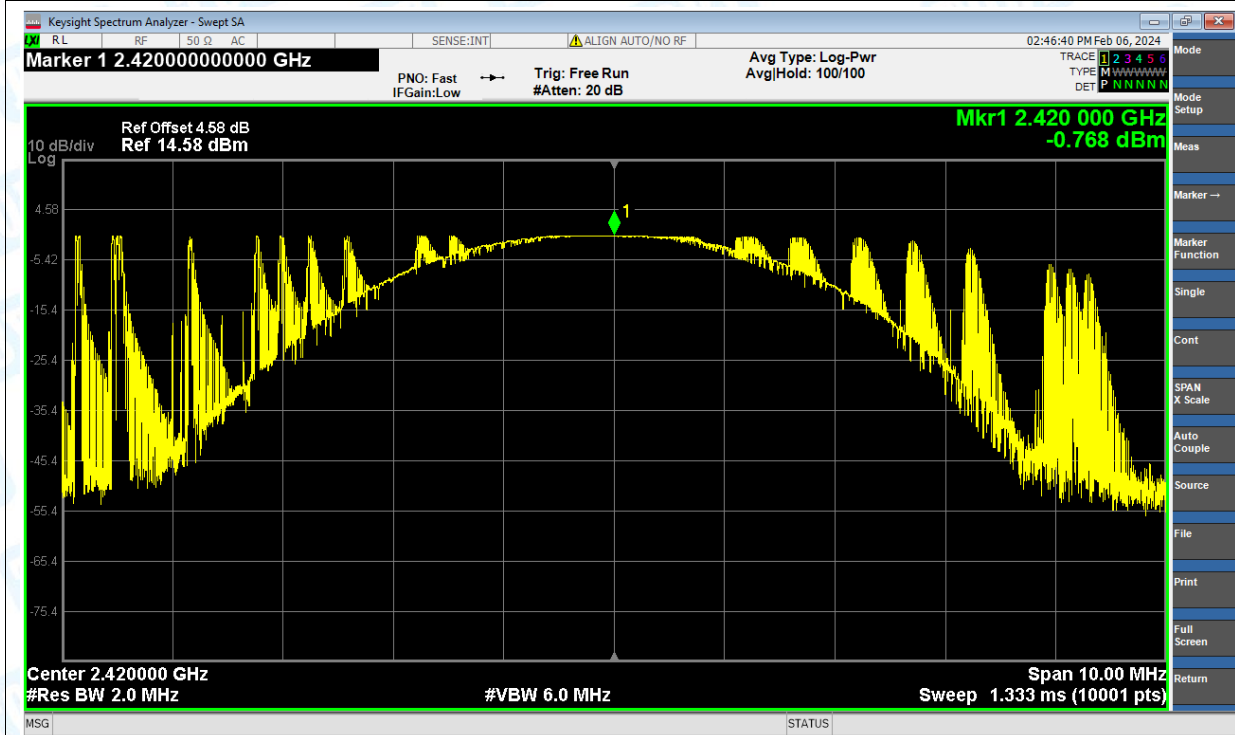


2. Maximum Conducted Output Power

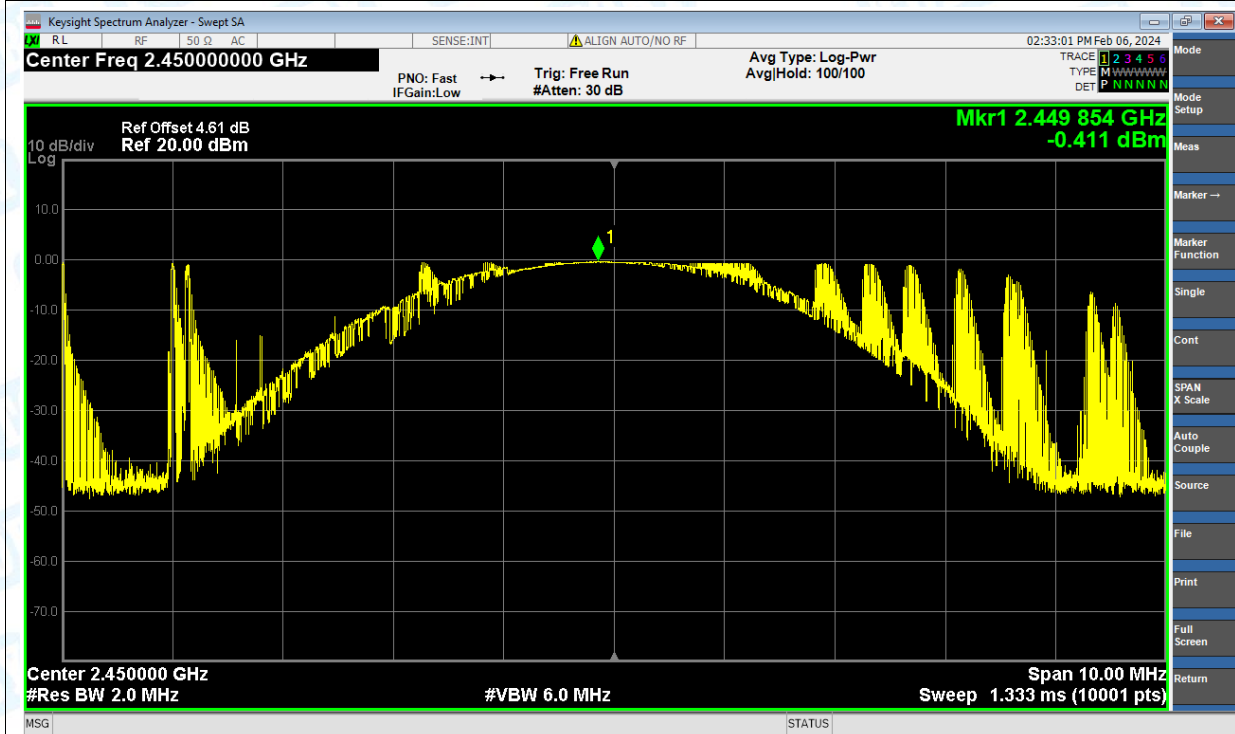
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2420	Ant1	-0.768	30	Pass
NVNT	2.4G	2450	Ant1	-0.411	30	Pass
NVNT	2.4G	2470	Ant1	-0.436	30	Pass

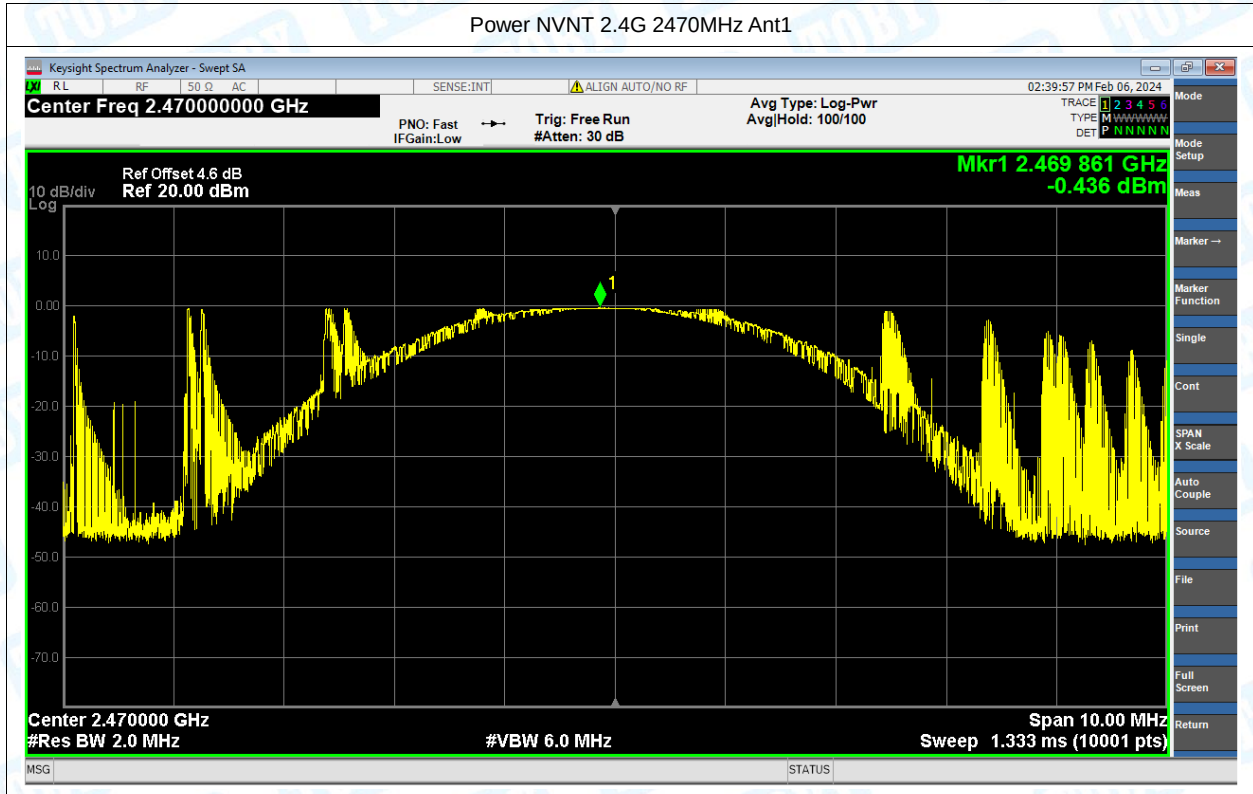
Test Graphs

Power NVNT 2.4G 2420MHz Ant1



Power NVNT 2.4G 2450MHz Ant1



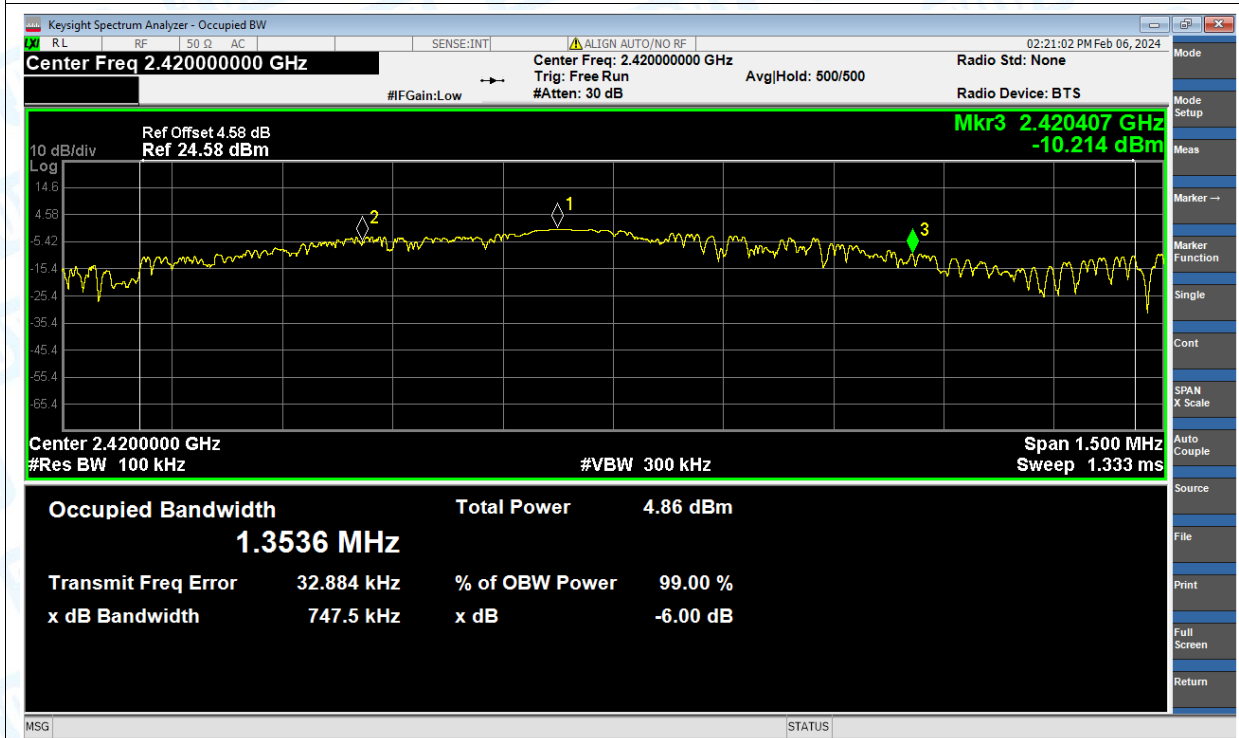


3. -6dB Bandwidth

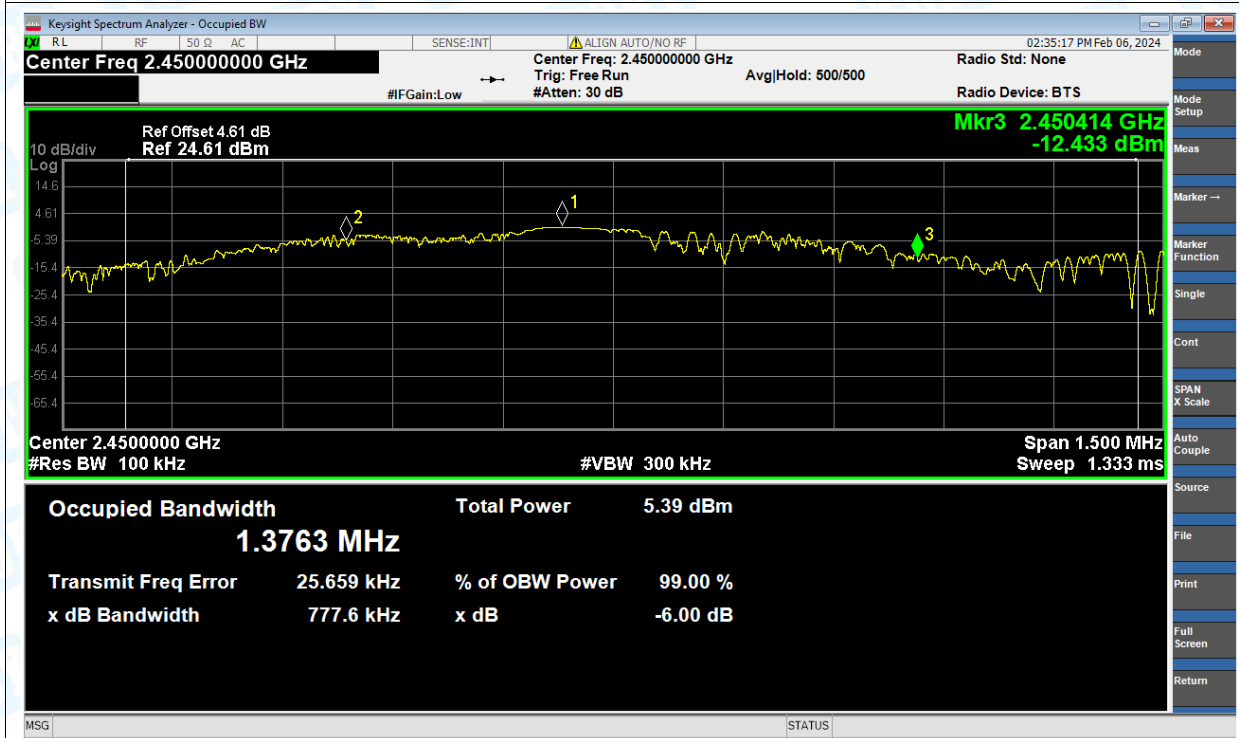
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2420	Ant1	0.75	0.5	Pass
NVNT	2.4G	2450	Ant1	0.78	0.5	Pass
NVNT	2.4G	2470	Ant1	0.80	0.5	Pass

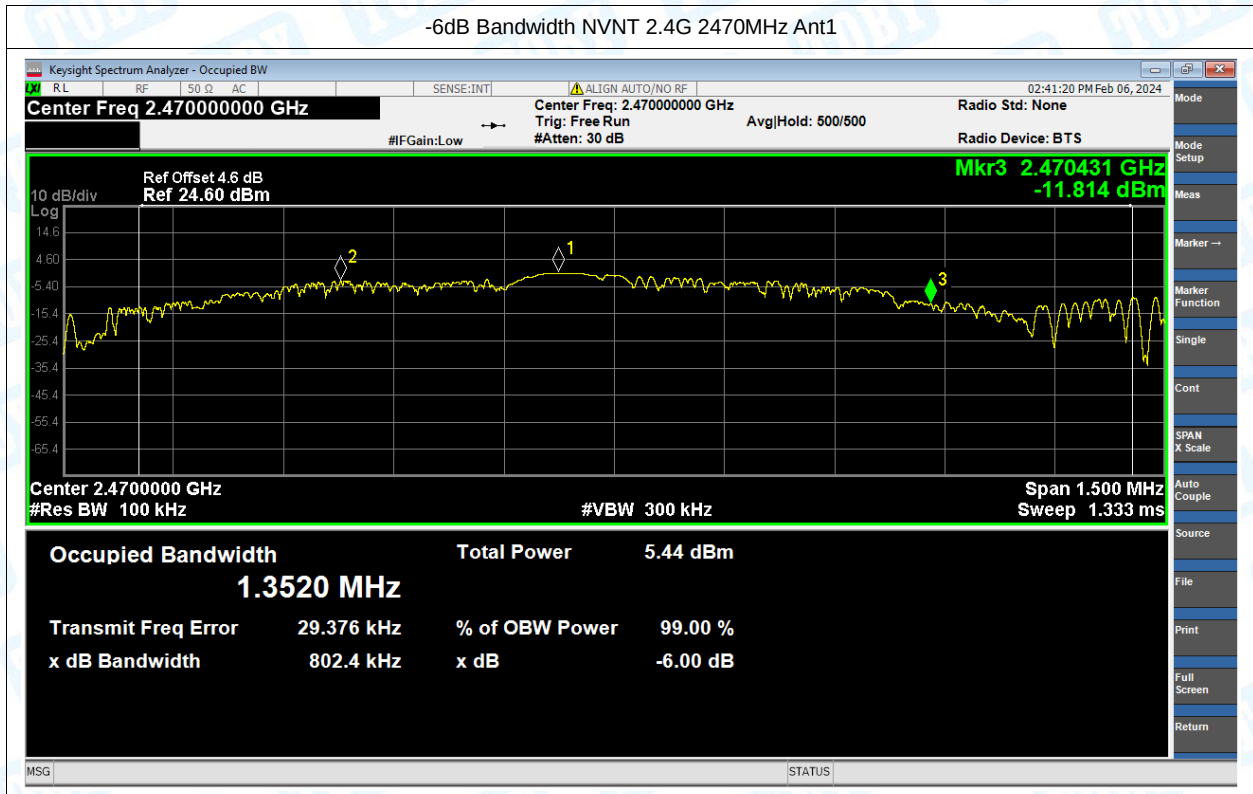
Test Graphs

-6dB Bandwidth NVNT 2.4G 2420MHz Ant1



-6dB Bandwidth NVNT 2.4G 2450MHz Ant1



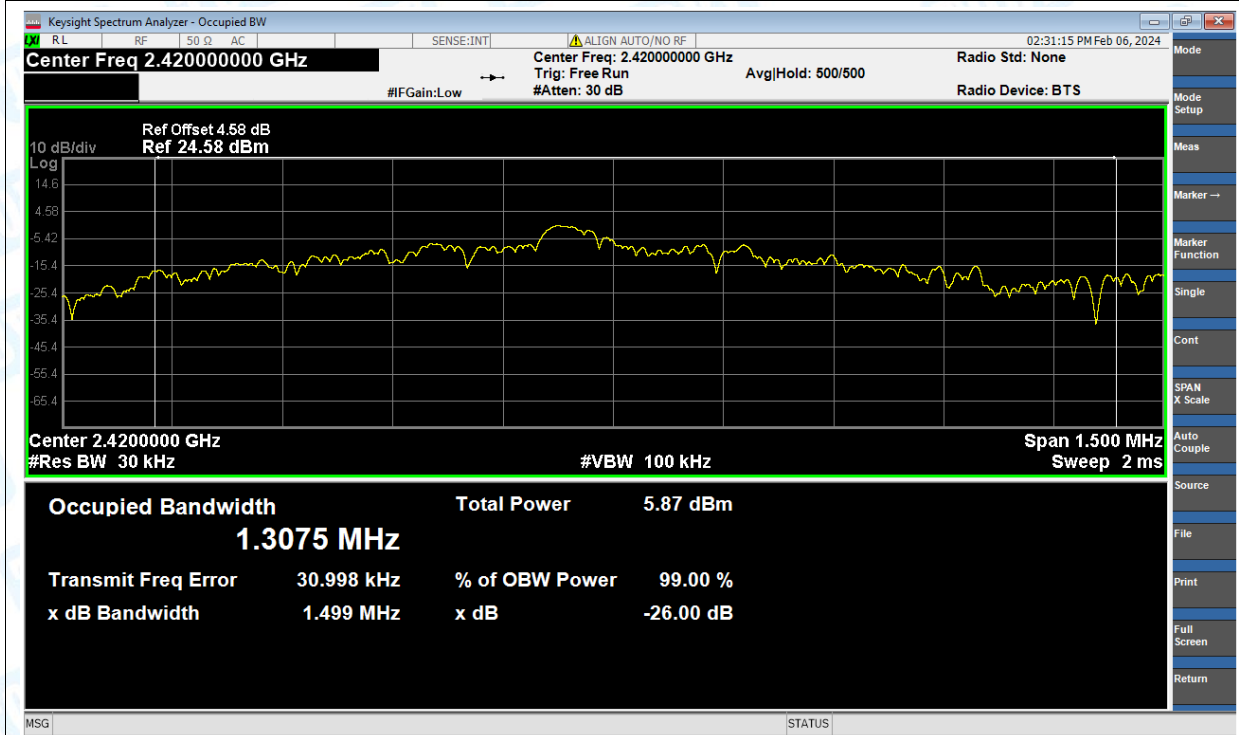


4. Occupied Channel Bandwidth

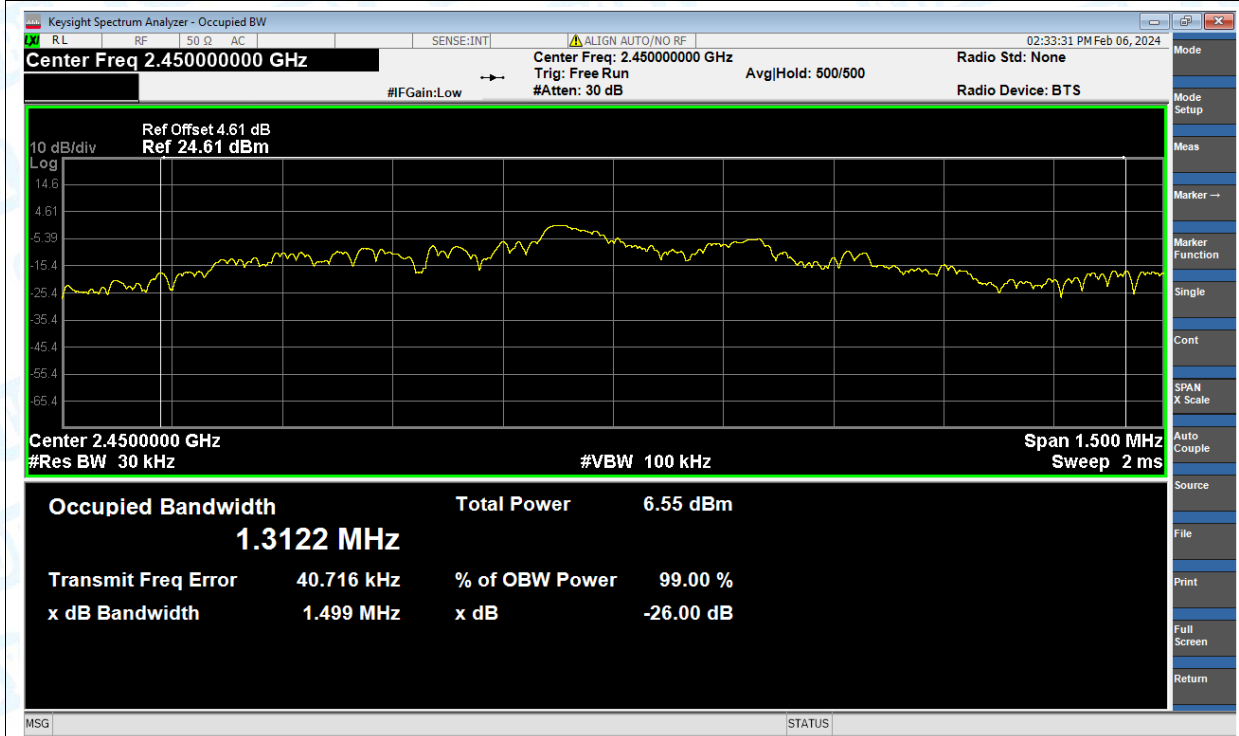
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	2.4G	2420	Ant1	1.308
NVNT	2.4G	2450	Ant1	1.312
NVNT	2.4G	2470	Ant1	1.330

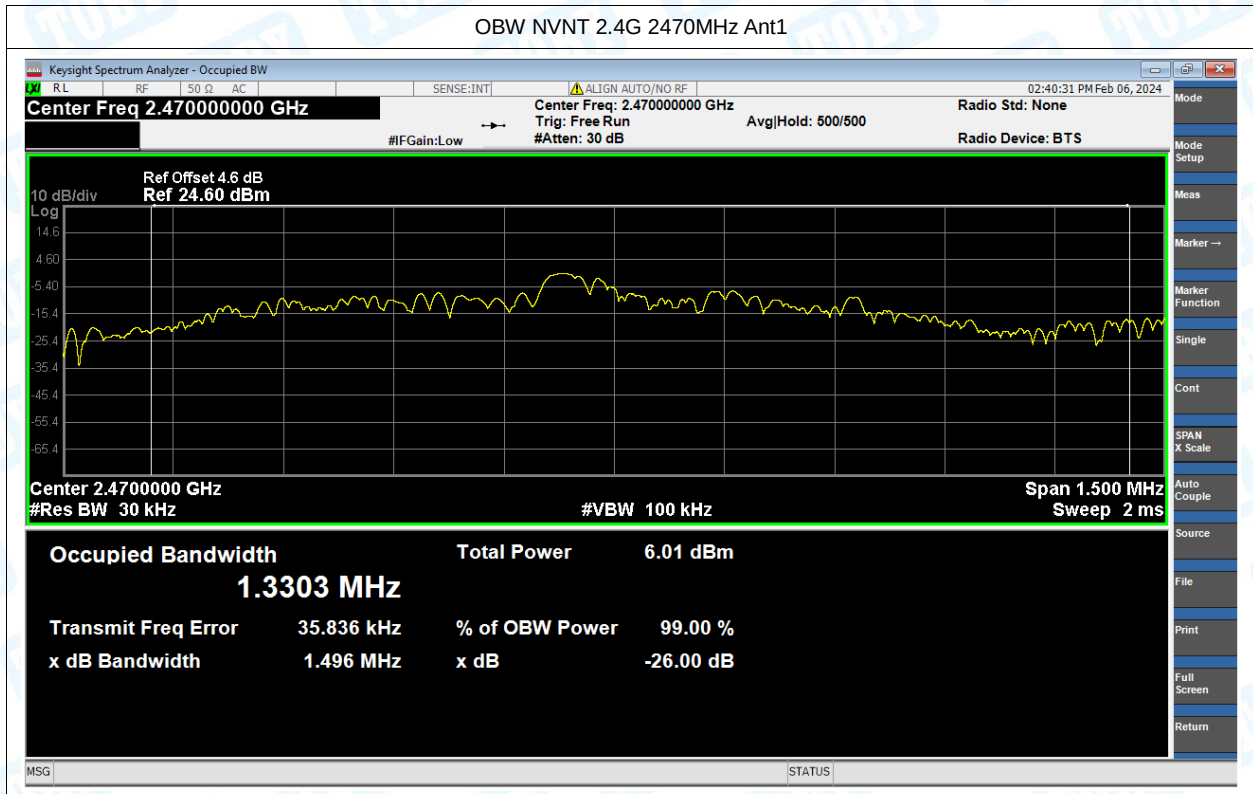
Test Graphs

OBW NVNT 2.4G 2420MHz Ant1



OBW NVNT 2.4G 2450MHz Ant1





5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2.4G	2420	Ant1	-6.556	8	Pass
NVNT	2.4G	2450	Ant1	-5.991	8	Pass
NVNT	2.4G	2470	Ant1	-6.242	8	Pass

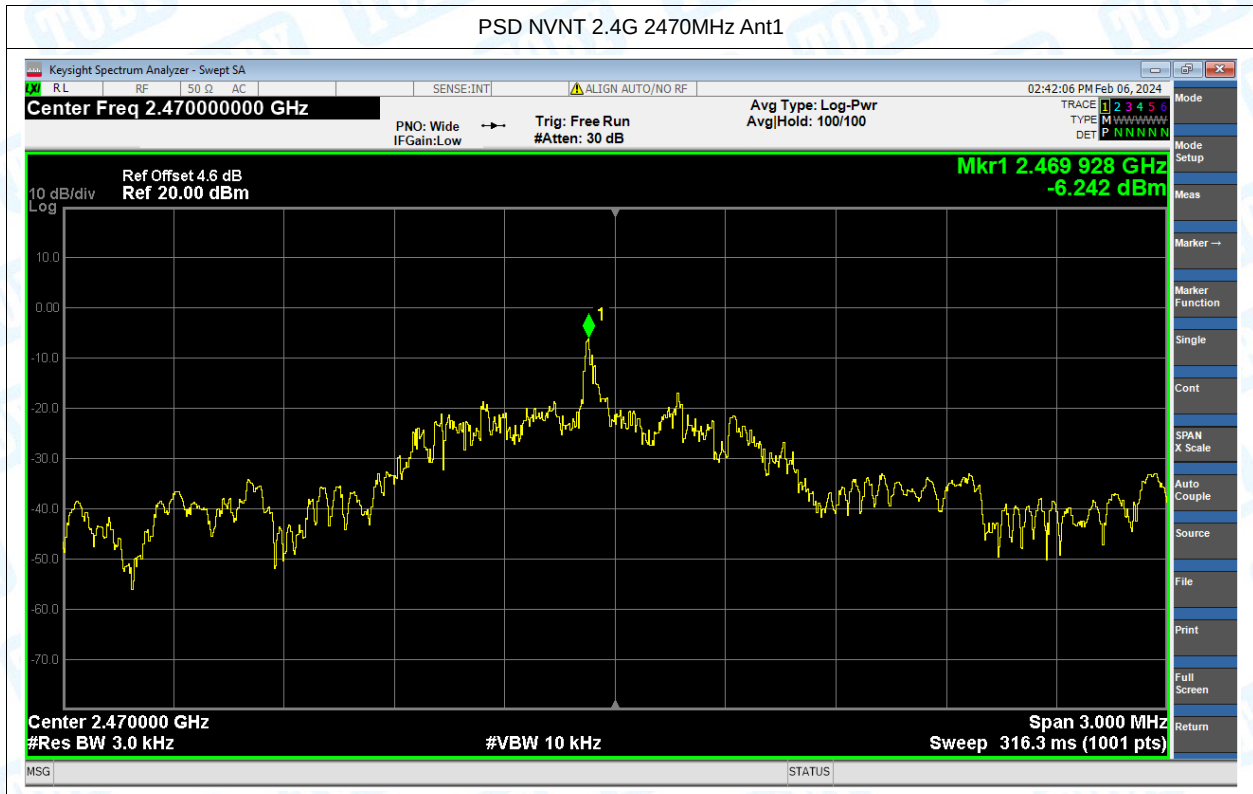
Test Graphs

PSD NVNT 2.4G 2420MHz Ant1



PSD NVNT 2.4G 2450MHz Ant1



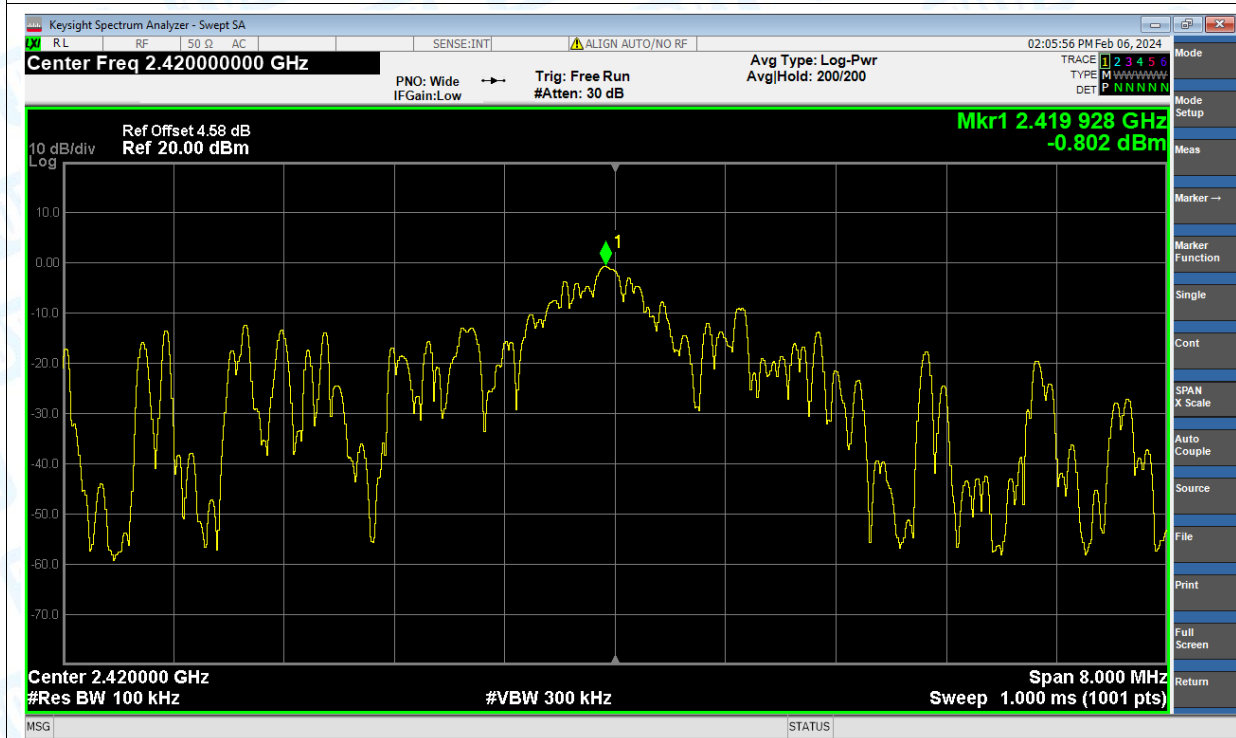


6. Band Edge

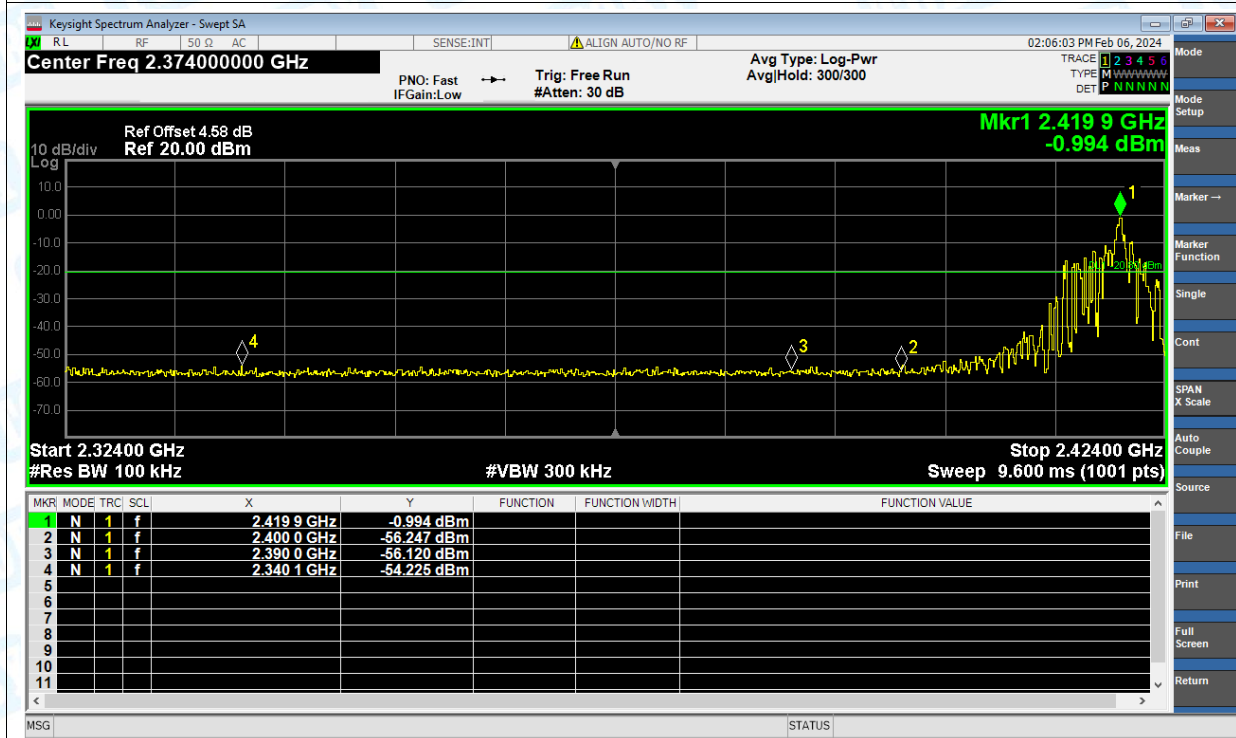
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2420	Ant1	-53.42	-20	Pass
NVNT	2.4G	2470	Ant1	-50.35	-20	Pass

Test Graphs

Band Edge NVNT 2.4G 2420MHz Ant1 Ref



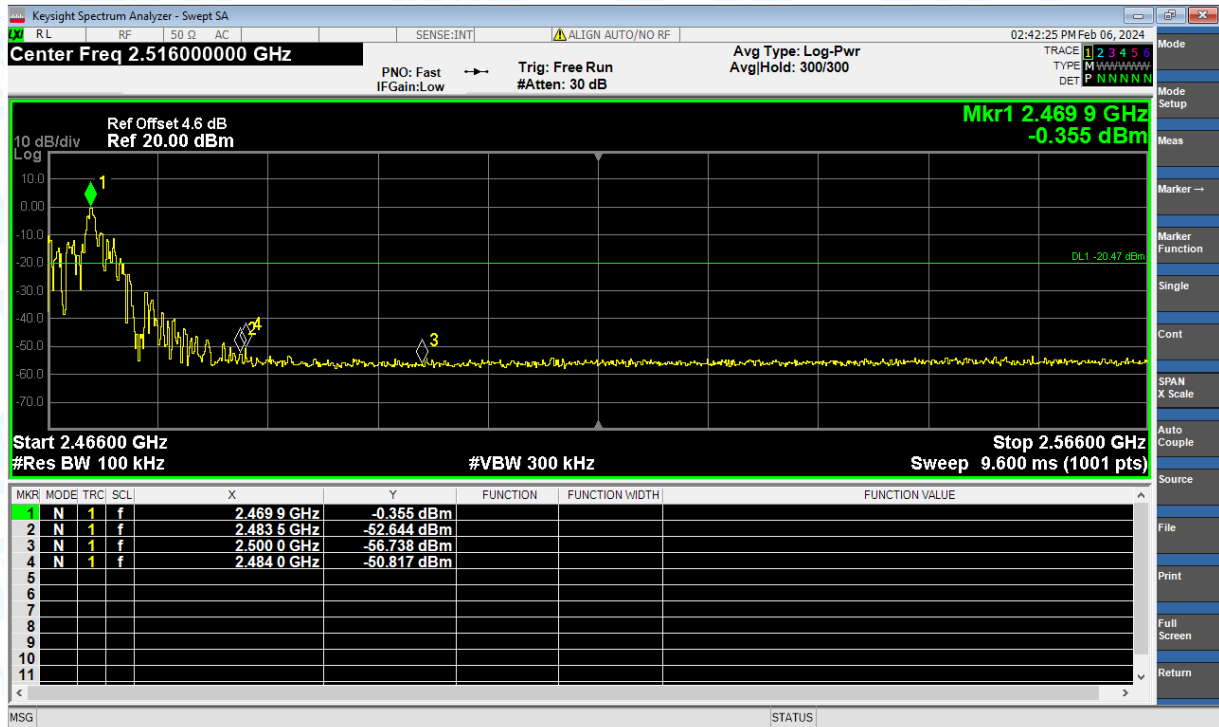
Band Edge NVNT 2.4G 2420MHz Ant1 Emission



Band Edge NVNT 2.4G 2470MHz Ant1 Ref



Band Edge NVNT 2.4G 2470MHz Ant1 Emission

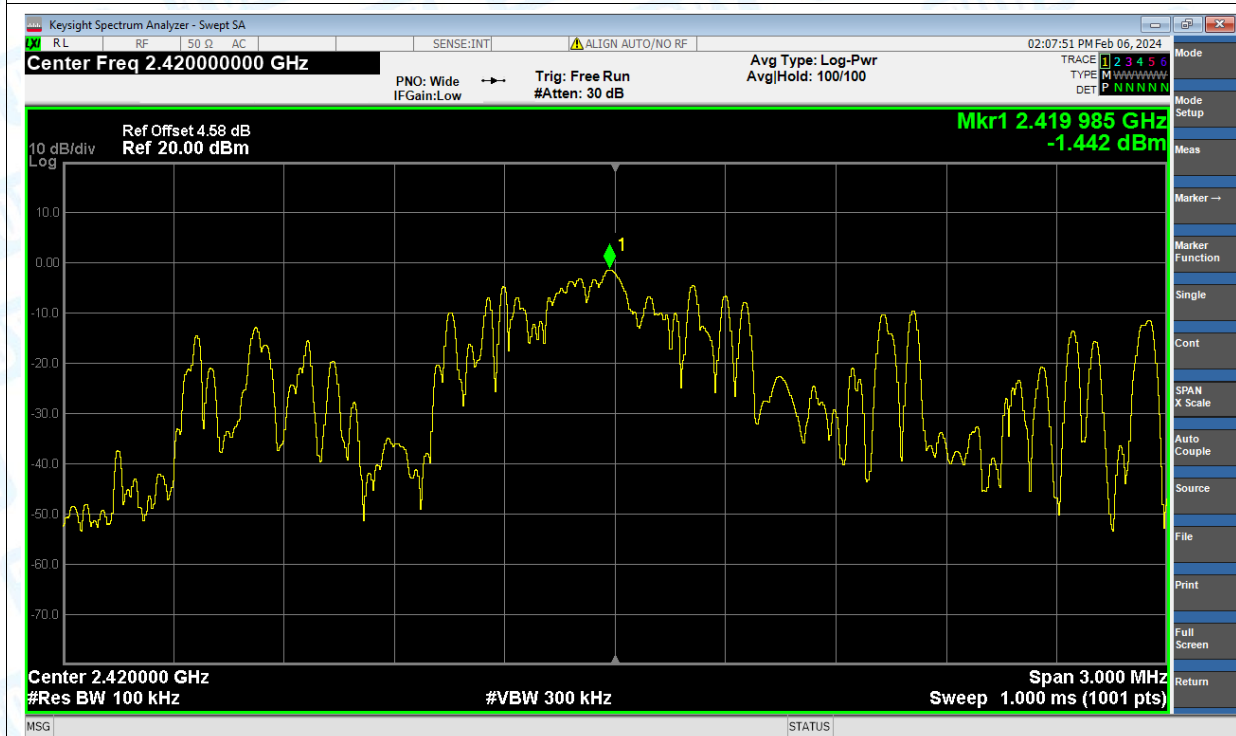


7. Conducted RF Spurious Emission

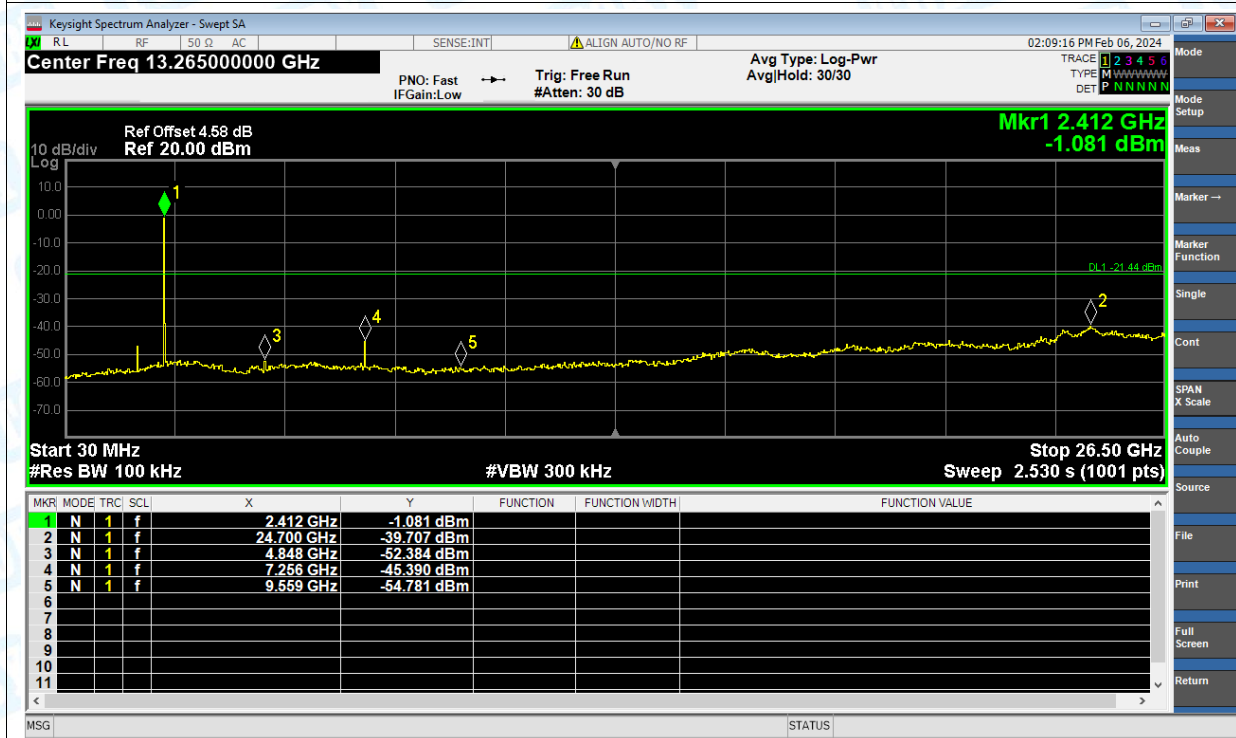
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2420	Ant1	-38.27	-20	Pass
NVNT	2.4G	2450	Ant1	-36.47	-20	Pass
NVNT	2.4G	2470	Ant1	-38.95	-20	Pass

Test Graphs

Tx. Spurious NVNT 2.4G 2420MHz Ant1 Ref



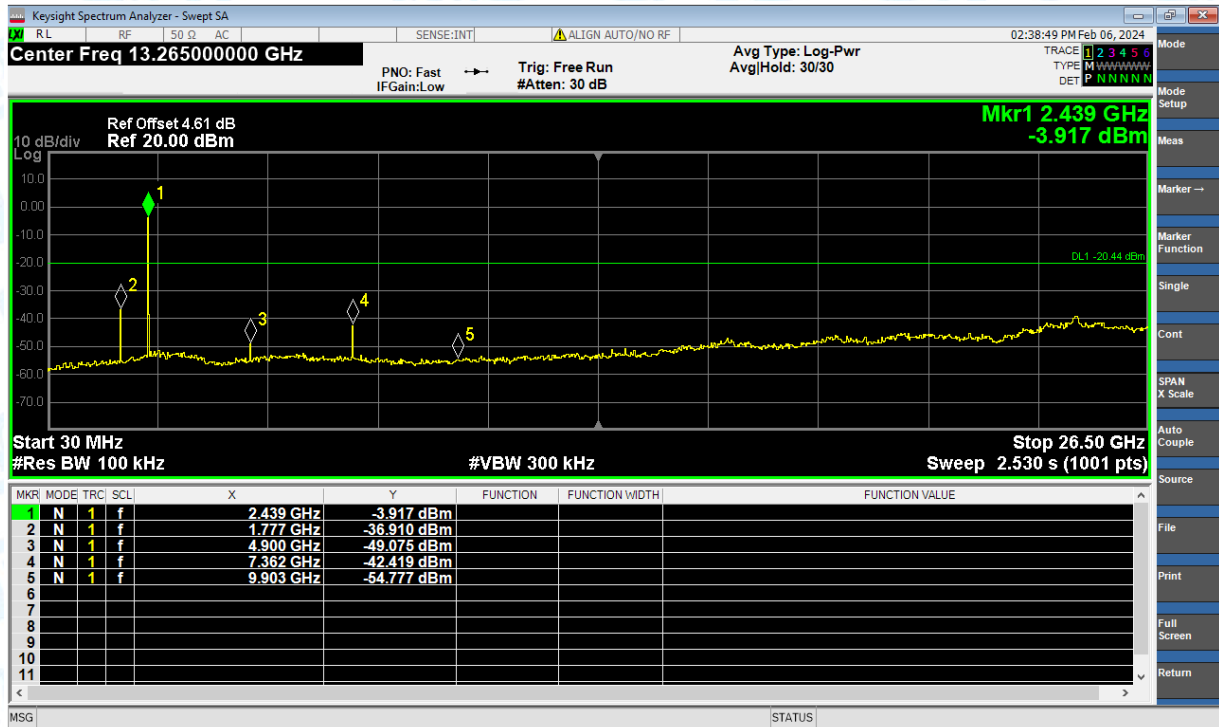
Tx. Spurious NVNT 2.4G 2420MHz Ant1 Emission



Tx. Spurious NVNT 2.4G 2450MHz Ant1 Ref



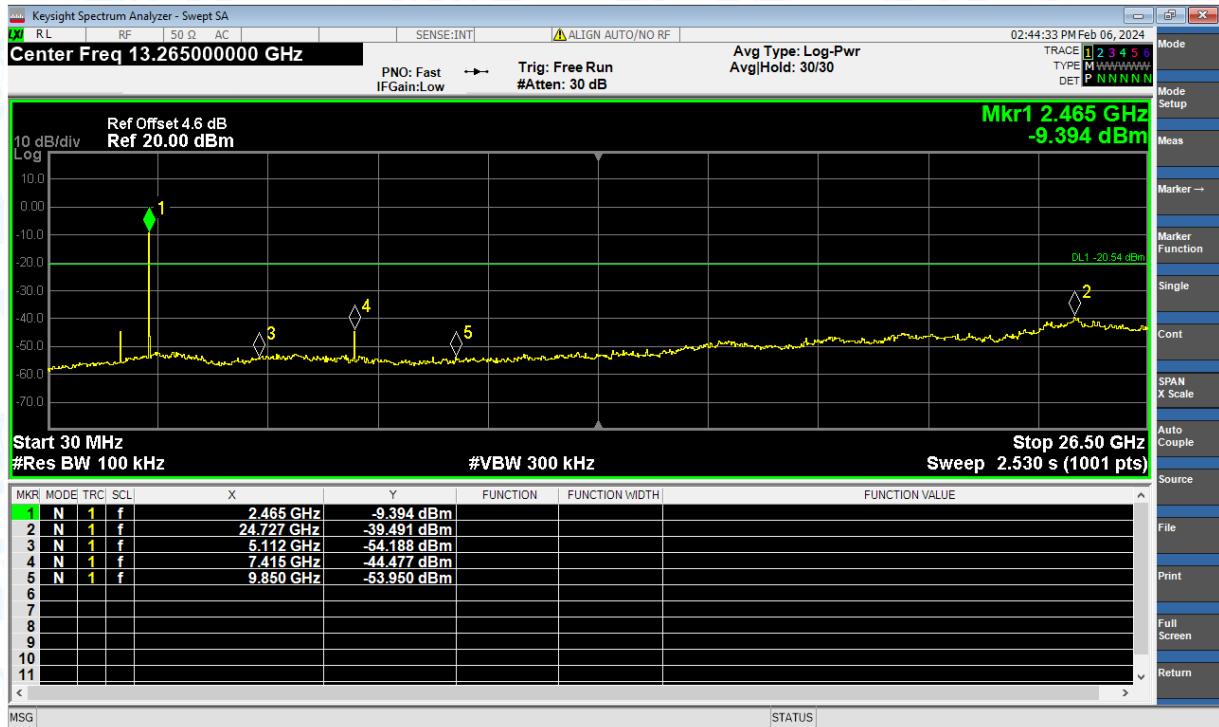
Tx. Spurious NVNT 2.4G 2450MHz Ant1 Emission



Tx. Spurious NVNT 2.4G 2470MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2470MHz Ant1 Emission

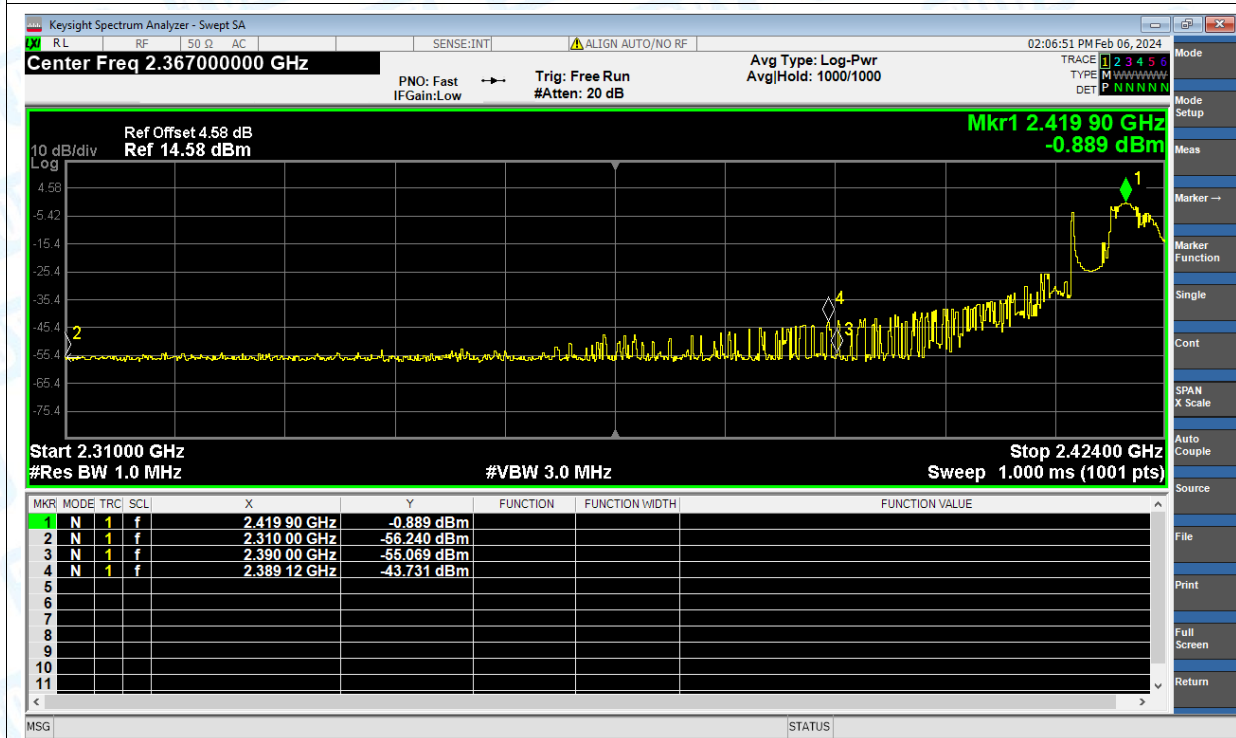


8. Restrict Band

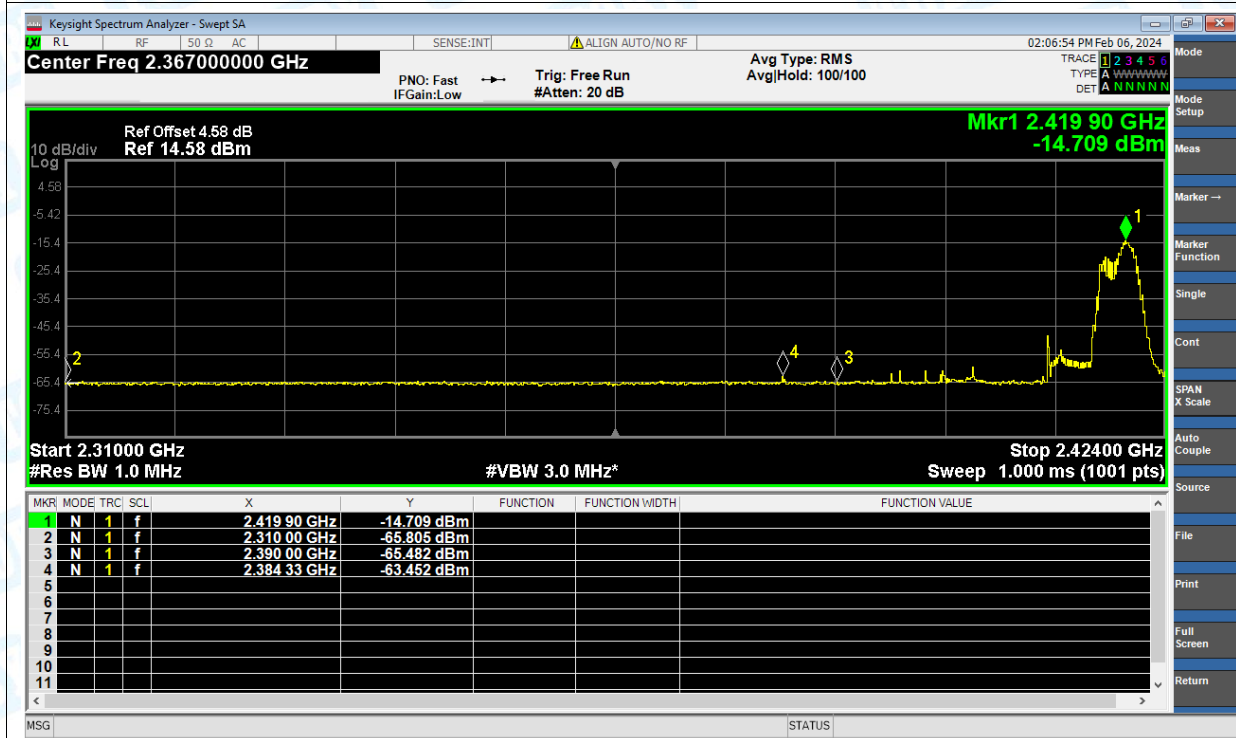
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2420	Ant1	2310	-56.24	2	-	41.02	Peak	74	Pass
NVNT	2.4G	2420	Ant1	2310	-65.81	2	11.94	43.39	Average	54	Pass
NVNT	2.4G	2420	Ant1	2389.116	-43.73	2	-	53.53	Peak	74	Pass
NVNT	2.4G	2420	Ant1	2384.328	-63.45	2	11.94	45.75	Average	54	Pass
NVNT	2.4G	2420	Ant1	2390	-55.07	2	-	42.19	Peak	74	Pass
NVNT	2.4G	2420	Ant1	2390	-65.48	2	11.94	43.72	Average	54	Pass
NVNT	2.4G	2470	Ant1	2483.5	-57.52	2	-	39.74	Peak	74	Pass
NVNT	2.4G	2470	Ant1	2483.5	-59.02	2	11.83	50.07	Average	54	Pass
NVNT	2.4G	2470	Ant1	2491.568	-39.85	2	-	57.41	Peak	74	Pass
NVNT	2.4G	2470	Ant1	2483.51	-59.02	2	11.83	50.07	Average	54	Pass
NVNT	2.4G	2470	Ant1	2500	-56.44	2	-	40.82	Peak	74	Pass
NVNT	2.4G	2470	Ant1	2500	-65.71	2	11.83	43.38	Average	54	Pass

Test Graphs

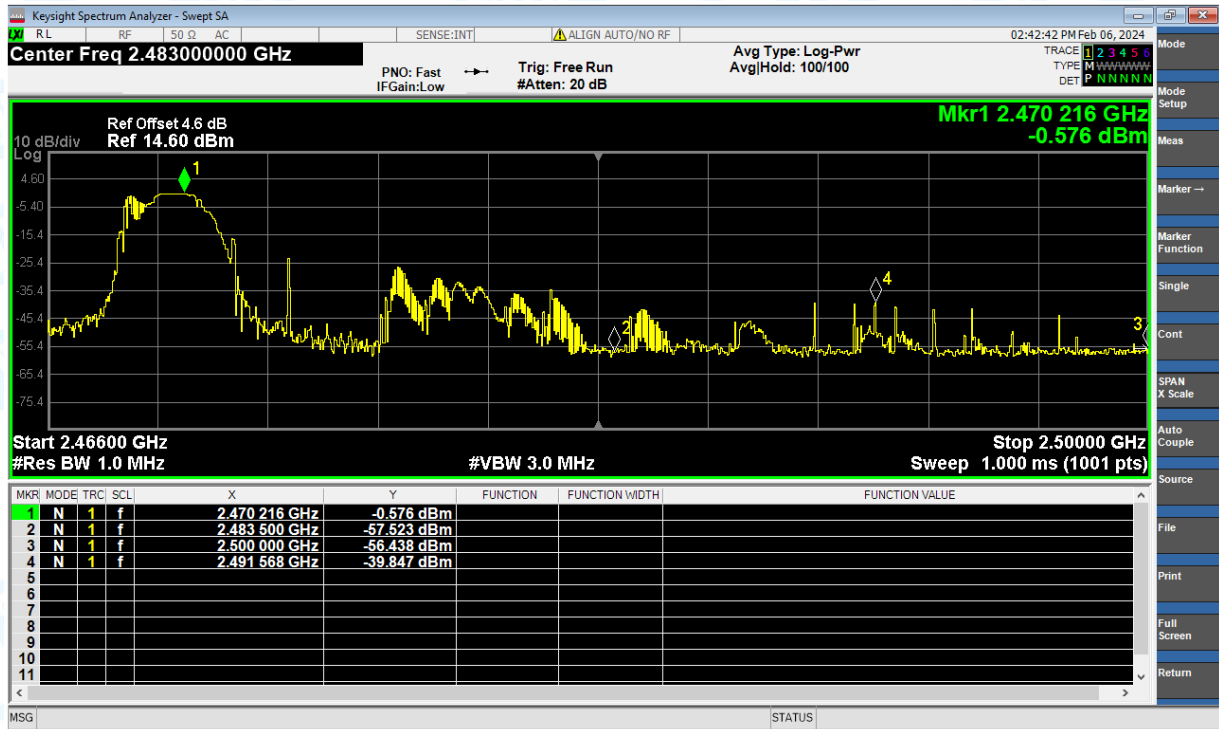
Restrict Band NVNT 2.4G 2420MHz Ant1 Peak



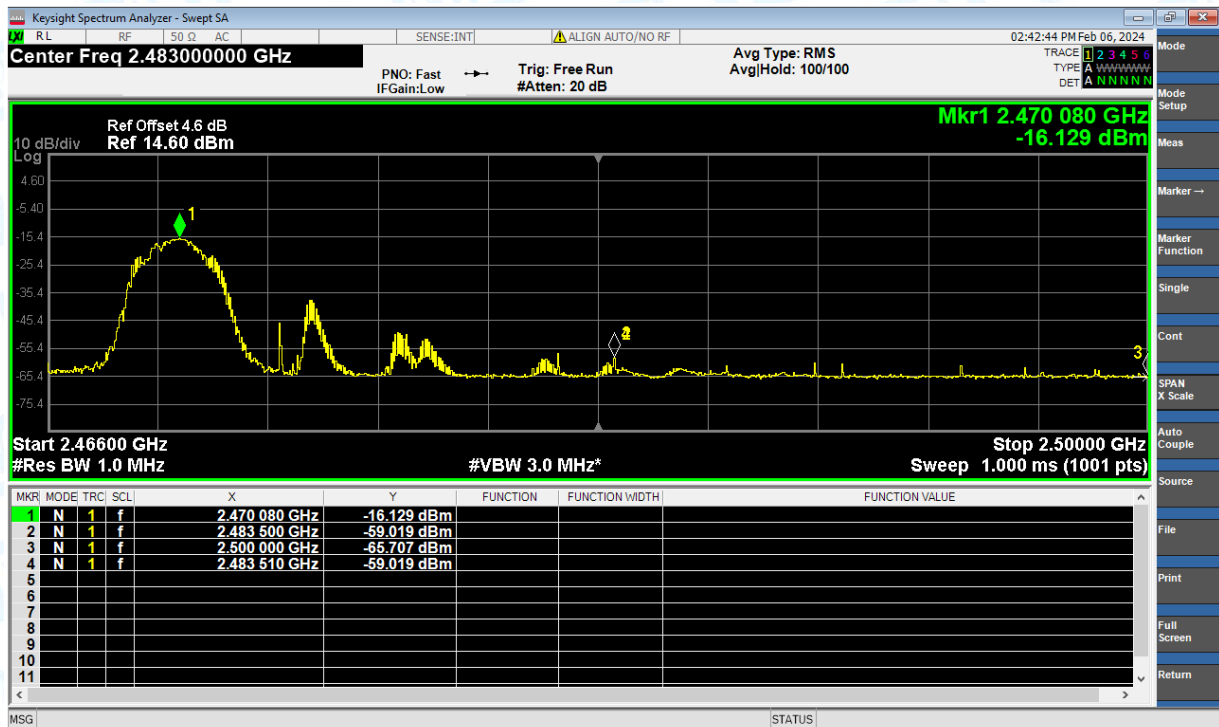
Restrict Band NVNT 2.4G 2420MHz Ant1 Average



Restrict Band NVNT 2.4G 2470MHz Ant1 Peak



Restrict Band NVNT 2.4G 2470MHz Ant1 Average



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