

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	AirSuite Sense Wi-Fi
Test Model:	SSCM880
Sample ID:	202303-0092-4-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202303-0092-91 The report only show the worst case data.	

Contents

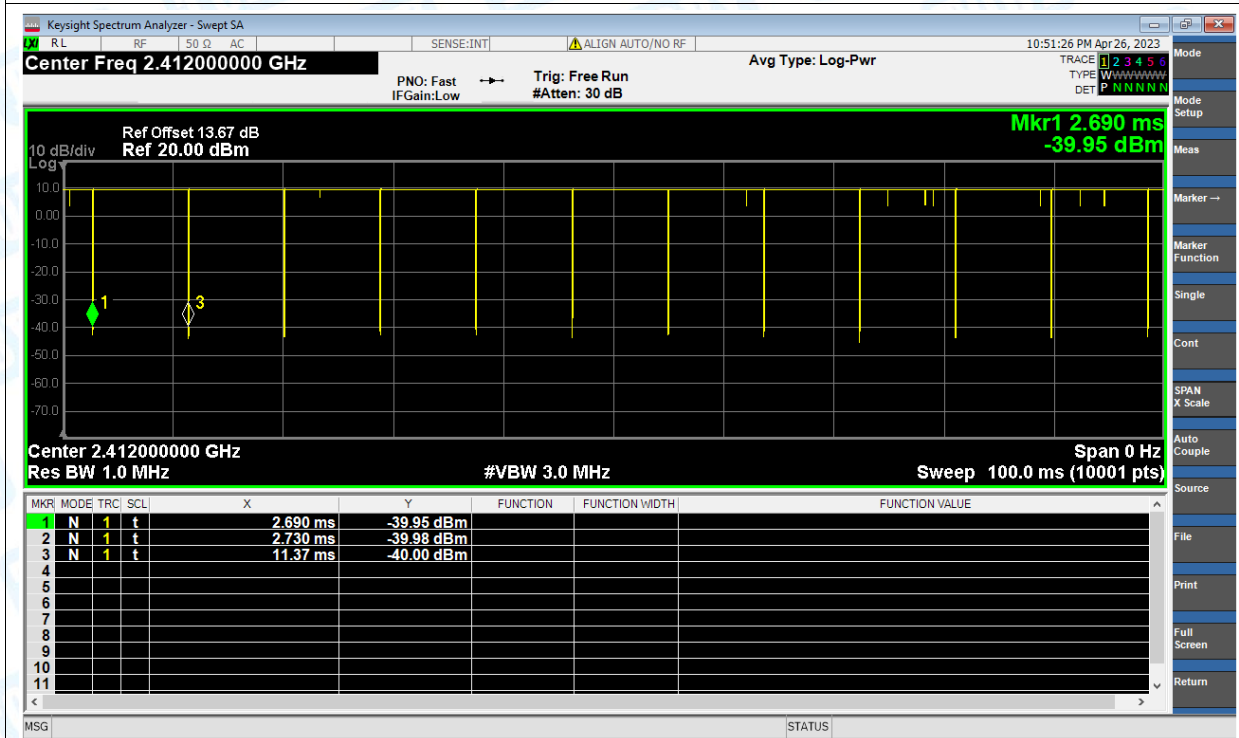
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1. Duty Cycle

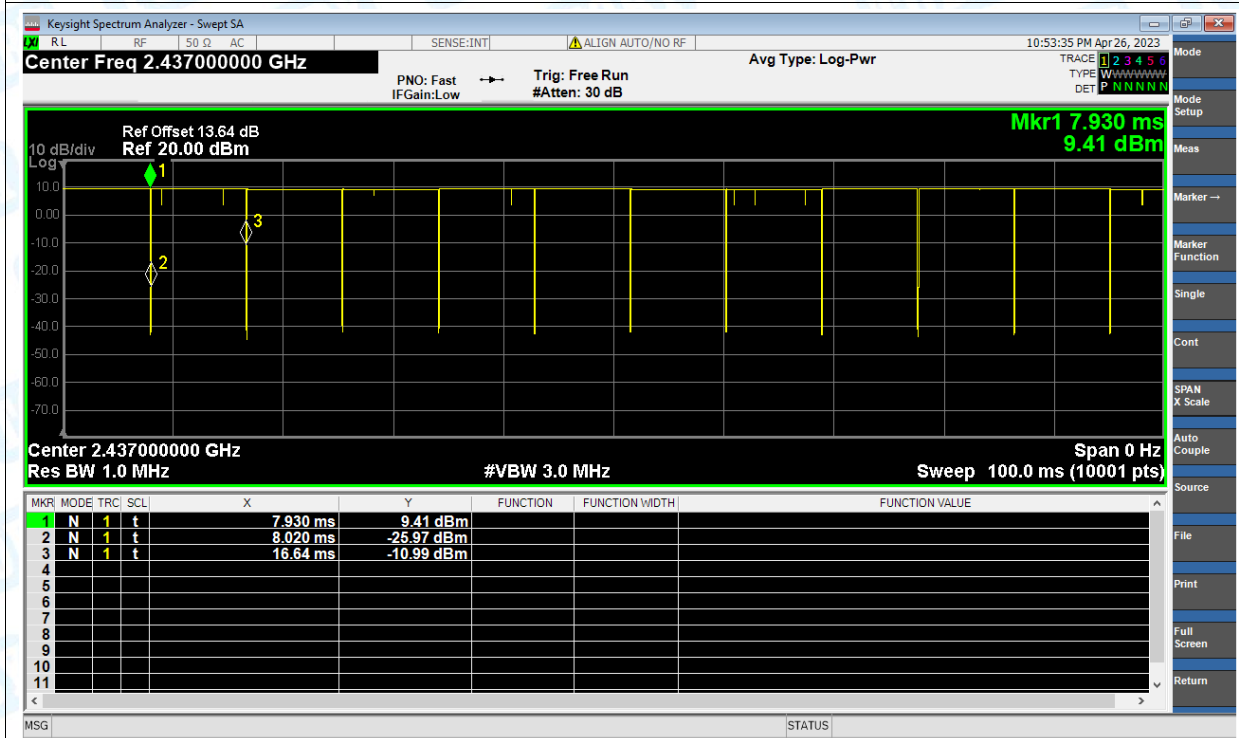
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.54	0.02	0.12
NVNT	b	2437	Ant1	98.97	0.04	0.12
NVNT	b	2462	Ant1	98.97	0.04	0.12
NVNT	g	2412	Ant1	94.74	0.23	0.69
NVNT	g	2437	Ant1	97.35	0.12	0.68
NVNT	g	2462	Ant1	94.77	0.23	0.69
NVNT	n(HT20)	2412	Ant1	97.1	0.13	0.75
NVNT	n(HT20)	2437	Ant1	93.06	0.31	0.75
NVNT	n(HT20)	2462	Ant1	95.74	0.19	0.74

Test Graphs

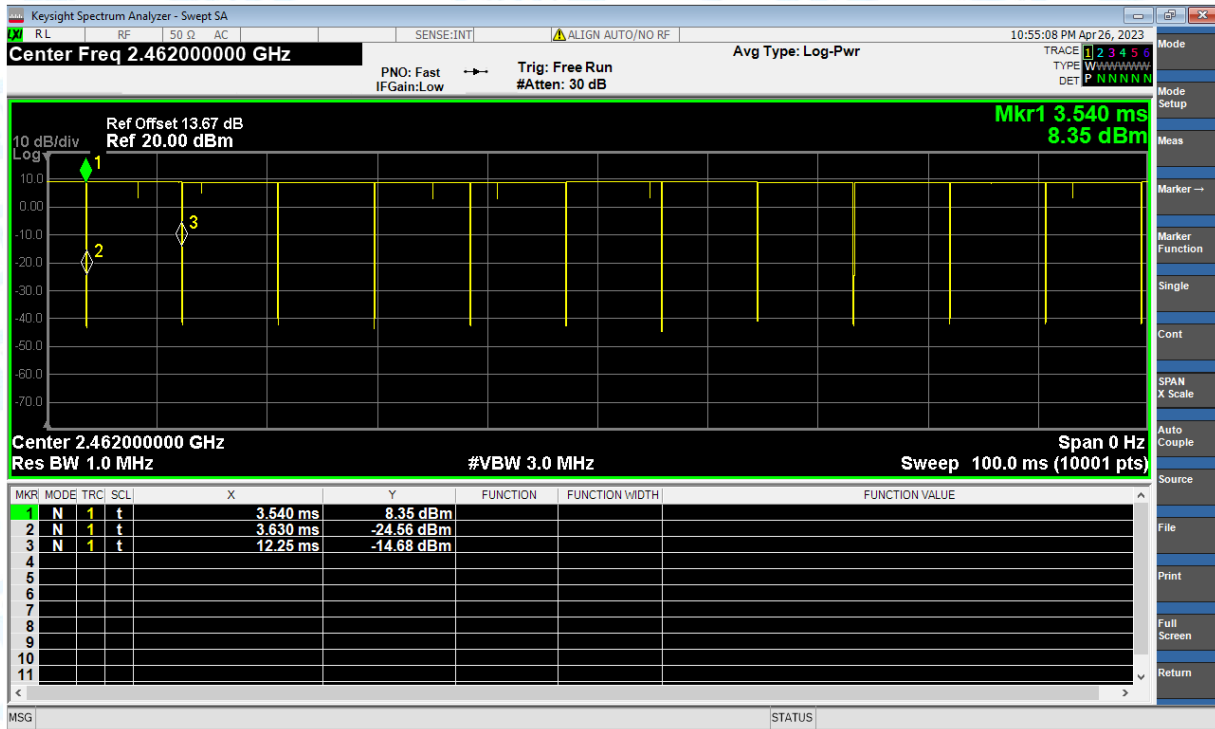
Duty Cycle NVNT b 2412MHz Ant1



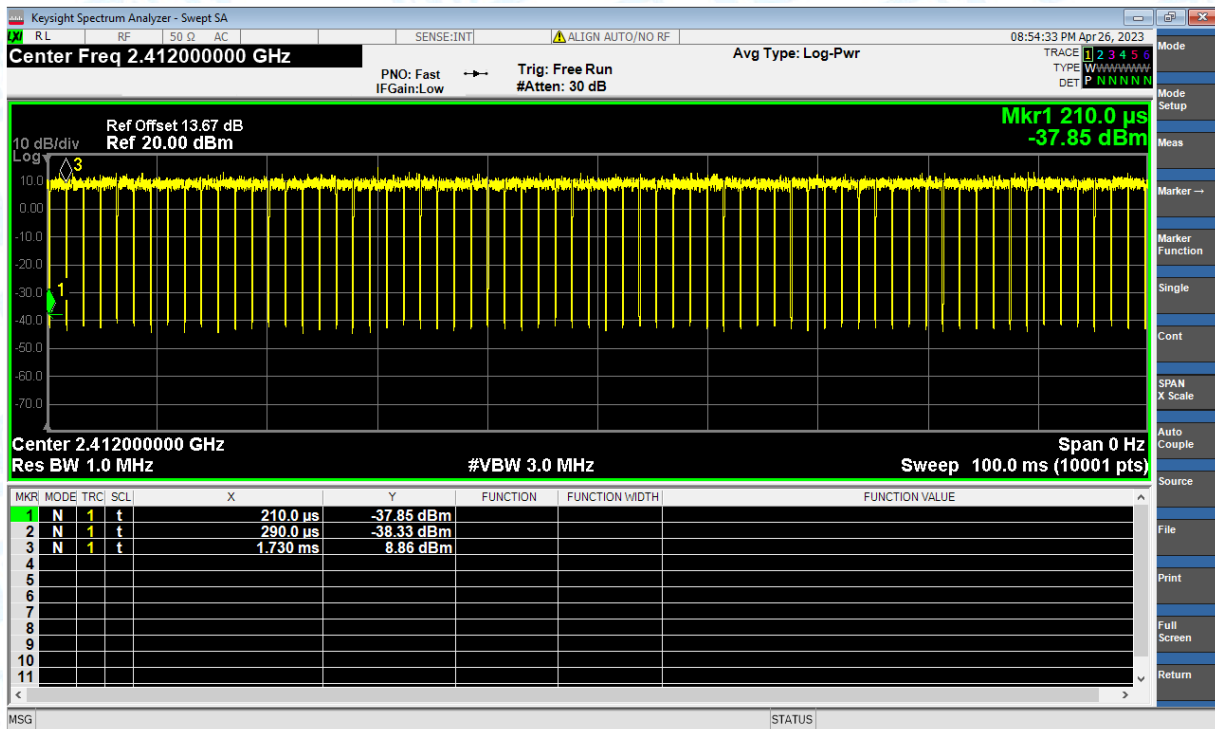
Duty Cycle NVNT b 2437MHz Ant1



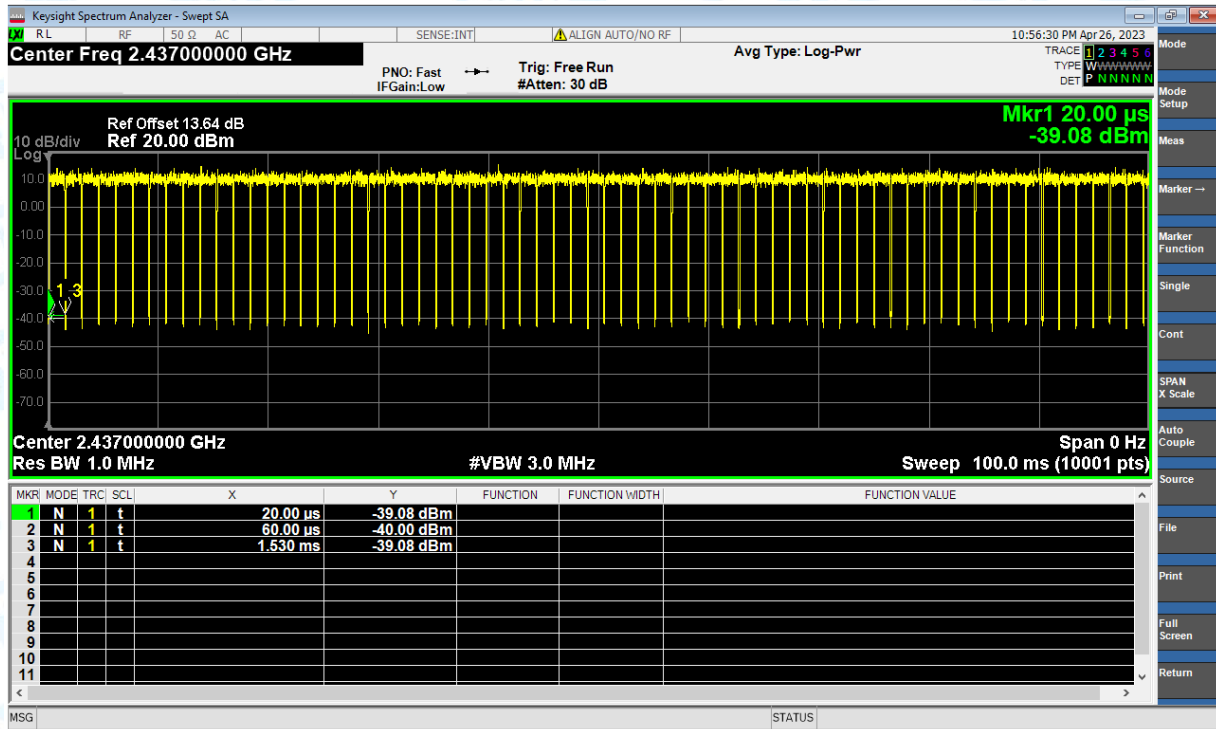
Duty Cycle NVNT b 2462MHz Ant1



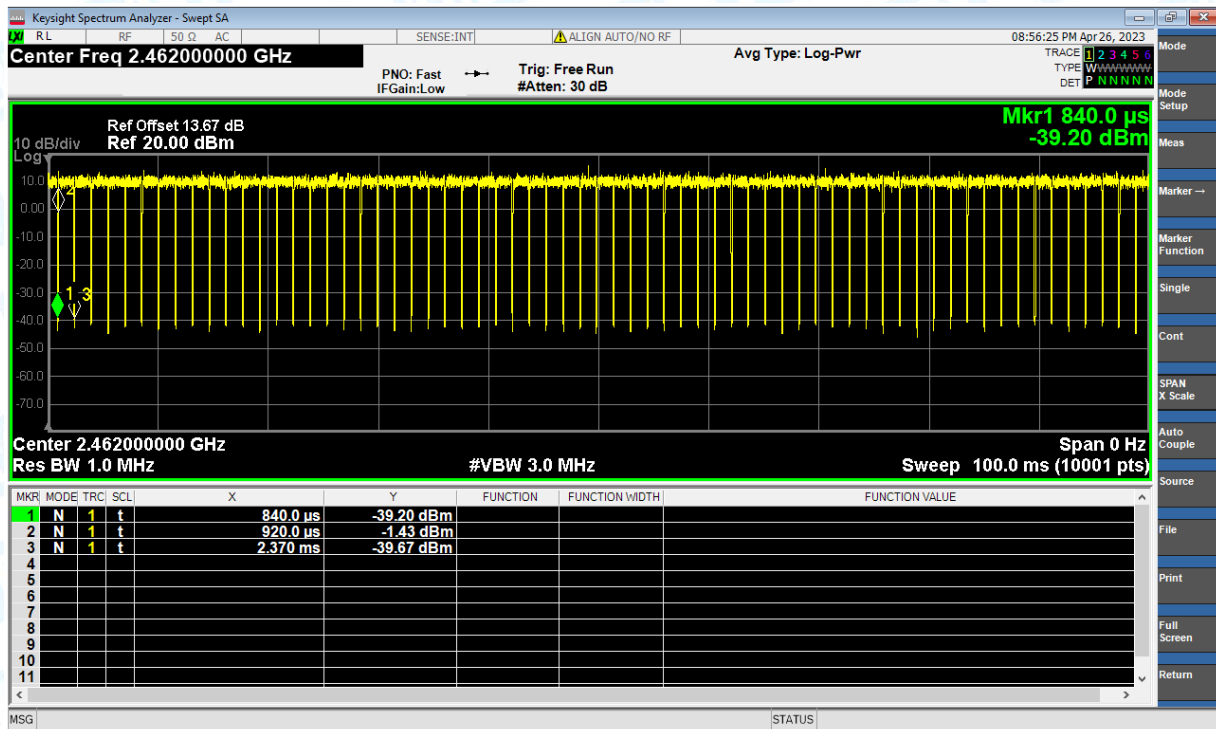
Duty Cycle NVNT g 2412MHz Ant1



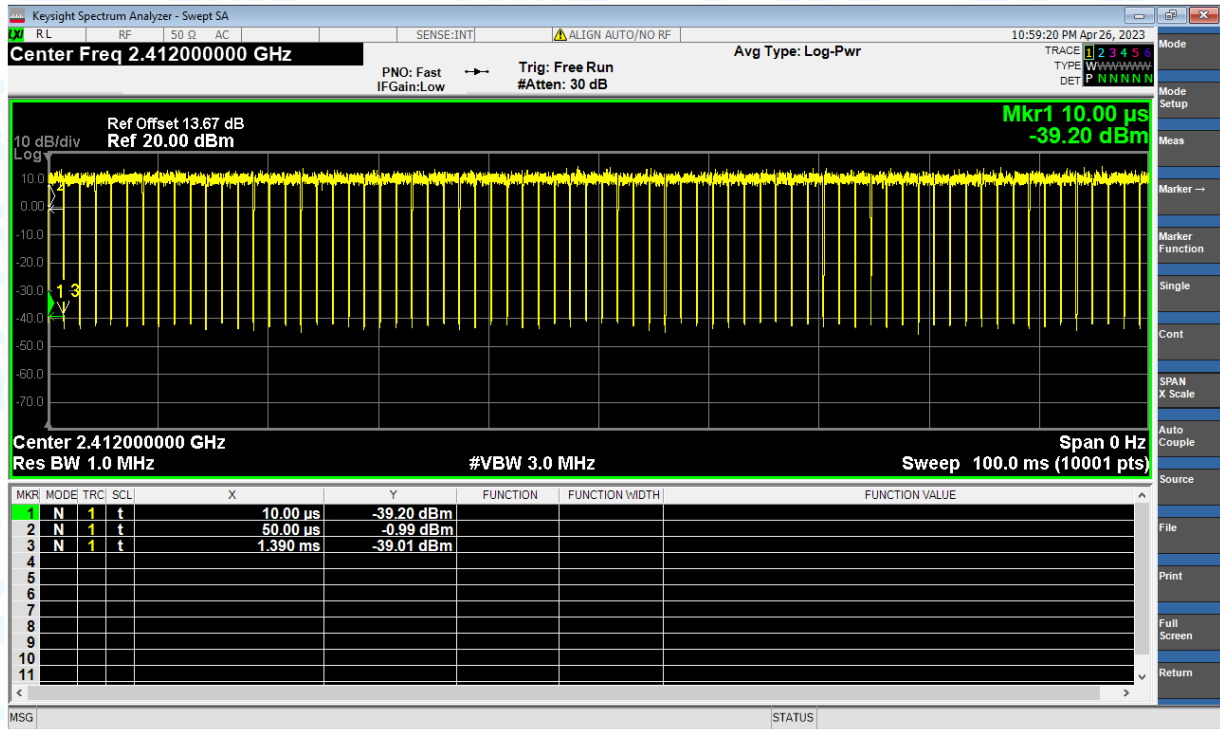
Duty Cycle NVNT g 2437MHz Ant1



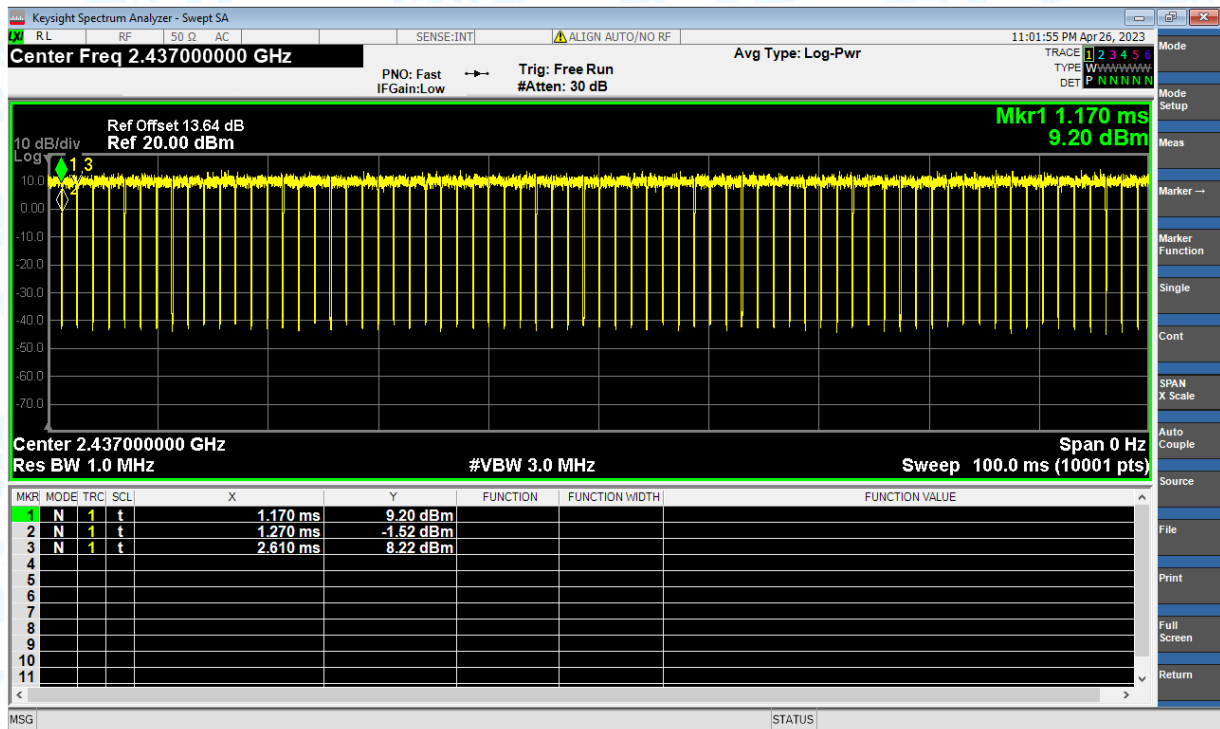
Duty Cycle NVNT g 2462MHz Ant1

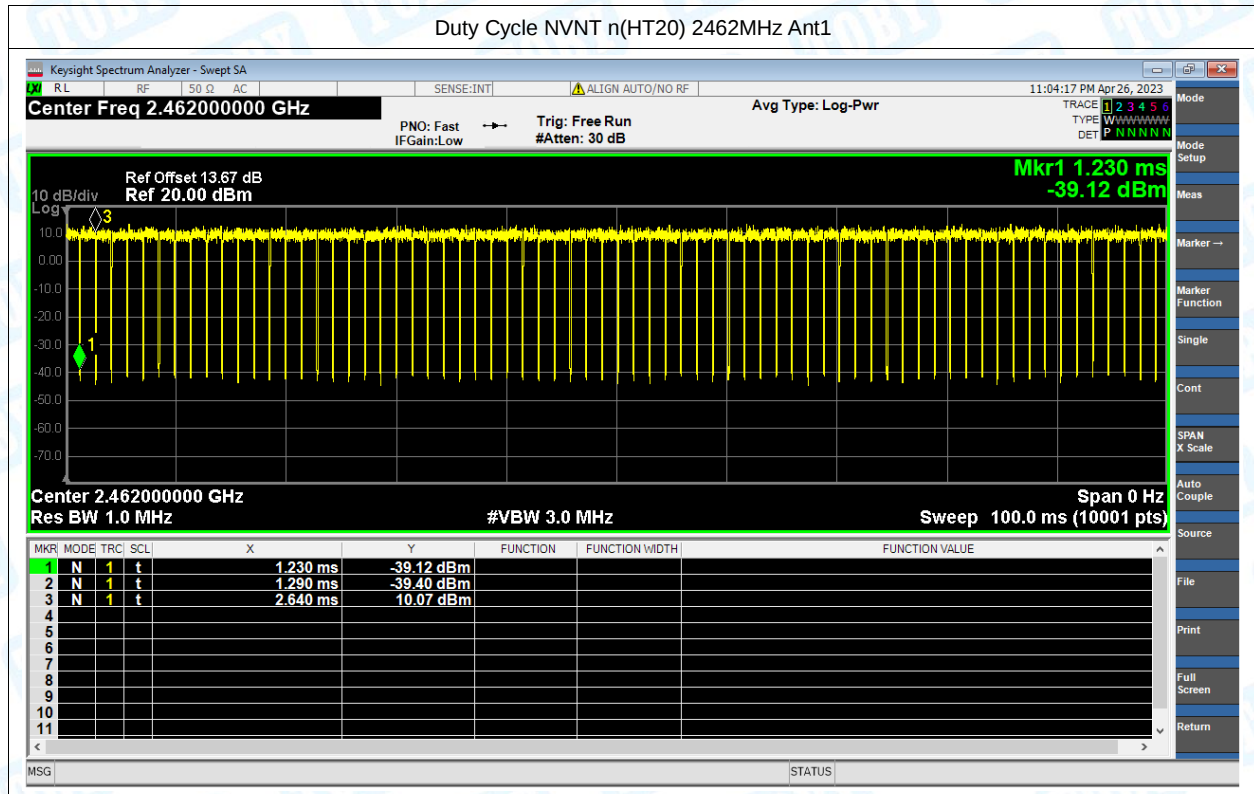


Duty Cycle NVNT n(HT20) 2412MHz Ant1



Duty Cycle NVNT n(HT20) 2437MHz Ant1





2.Maximum Conducted Output Power

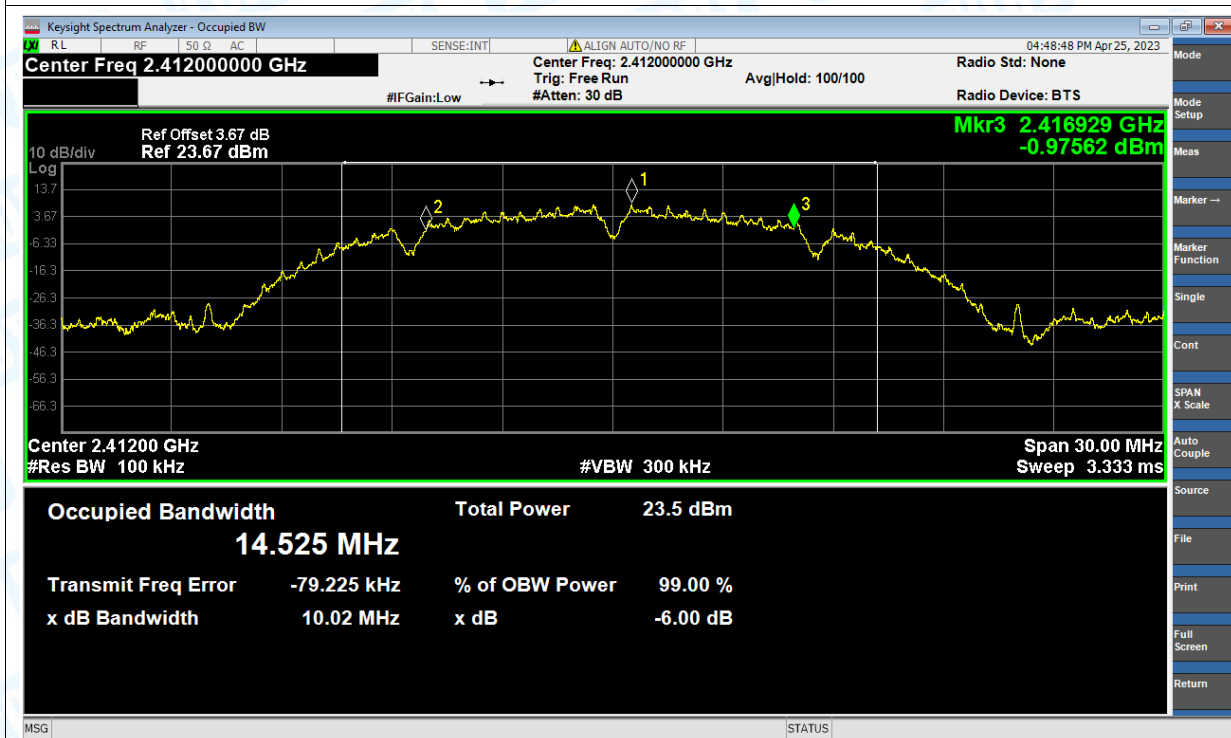
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.718	30	Pass
NVNT	b	2437	Ant1	14.54	30	Pass
NVNT	b	2462	Ant1	14.049	30	Pass
NVNT	g	2412	Ant1	16.783	30	Pass
NVNT	g	2437	Ant1	16.457	30	Pass
NVNT	g	2462	Ant1	16.21	30	Pass
NVNT	n(HT20)	2412	Ant1	16.749	30	Pass
NVNT	n(HT20)	2437	Ant1	16.403	30	Pass
NVNT	n(HT20)	2462	Ant1	15.873	30	Pass

3.-6dB Bandwidth

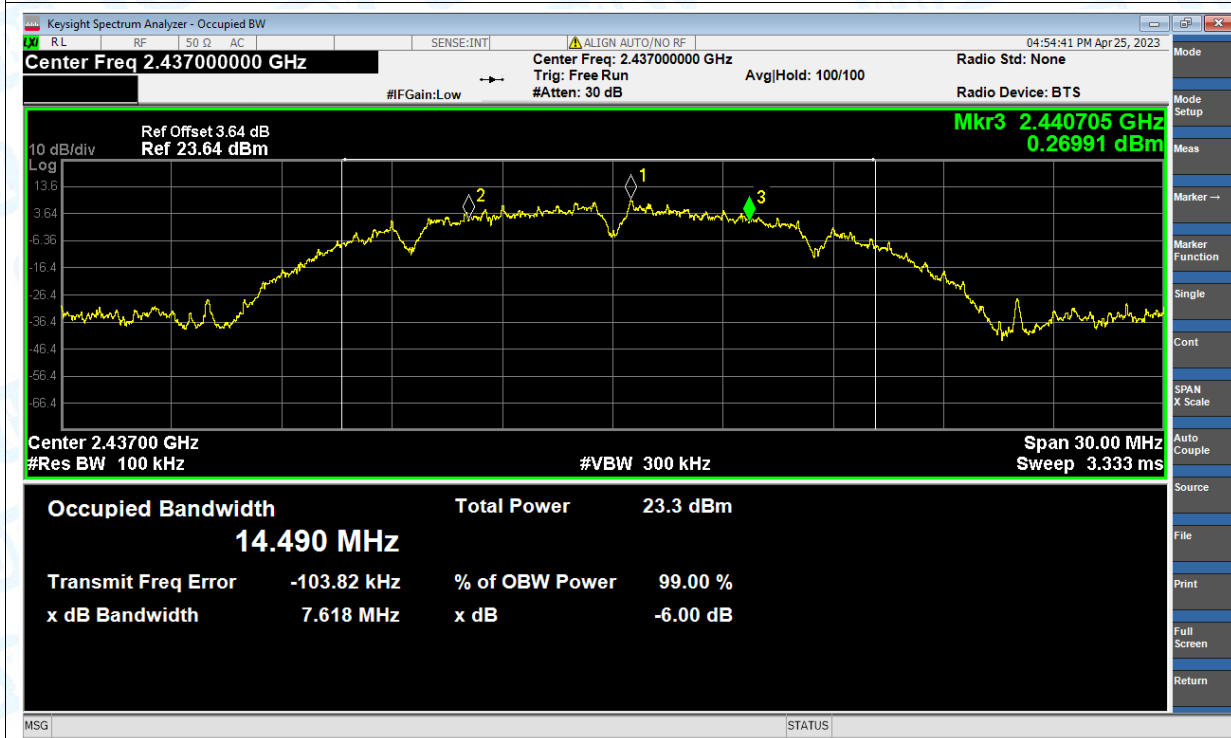
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.02	0.5	Pass
NVNT	b	2437	Ant1	7.62	0.5	Pass
NVNT	b	2462	Ant1	9.02	0.5	Pass
NVNT	g	2412	Ant1	15.29	0.5	Pass
NVNT	g	2437	Ant1	14.67	0.5	Pass
NVNT	g	2462	Ant1	15.05	0.5	Pass
NVNT	n(HT20)	2412	Ant1	15.13	0.5	Pass
NVNT	n(HT20)	2437	Ant1	14.8	0.5	Pass
NVNT	n(HT20)	2462	Ant1	15	0.5	Pass

Test Graphs

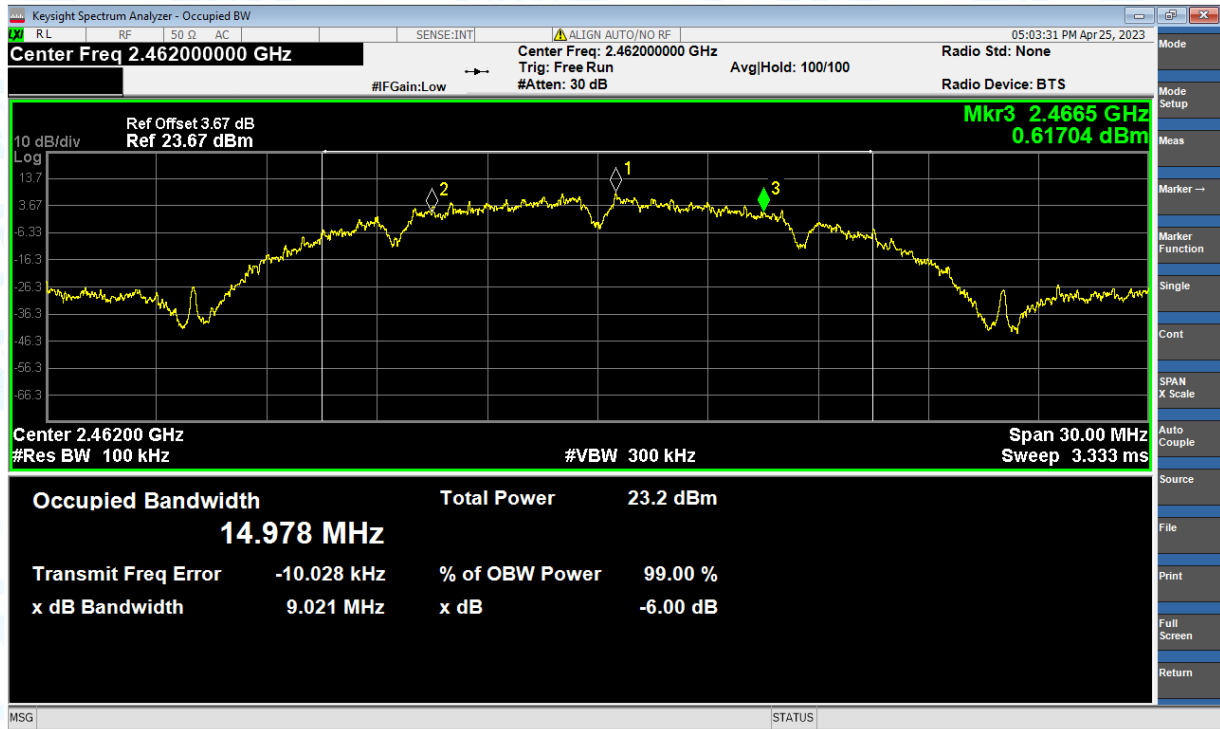
-6dB Bandwidth NVNT b 2412MHz Ant1



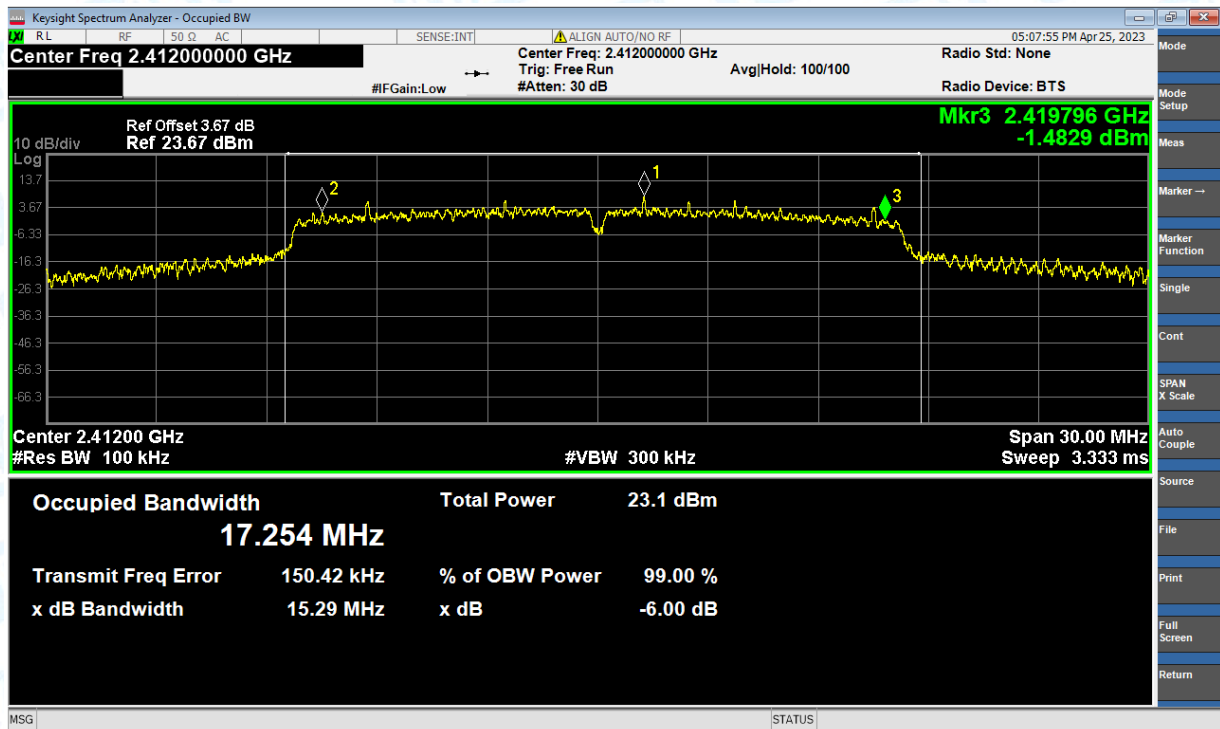
-6dB Bandwidth NVNT b 2437MHz Ant1



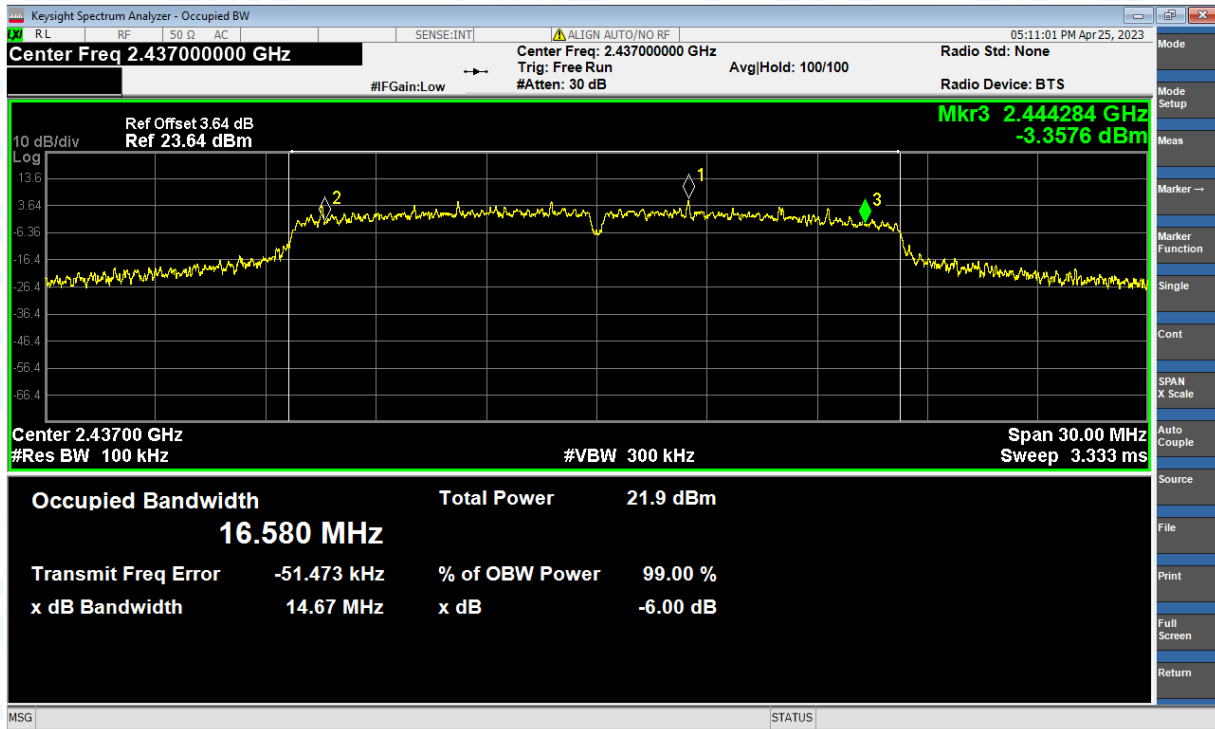
-6dB Bandwidth NVNT b 2462MHz Ant1



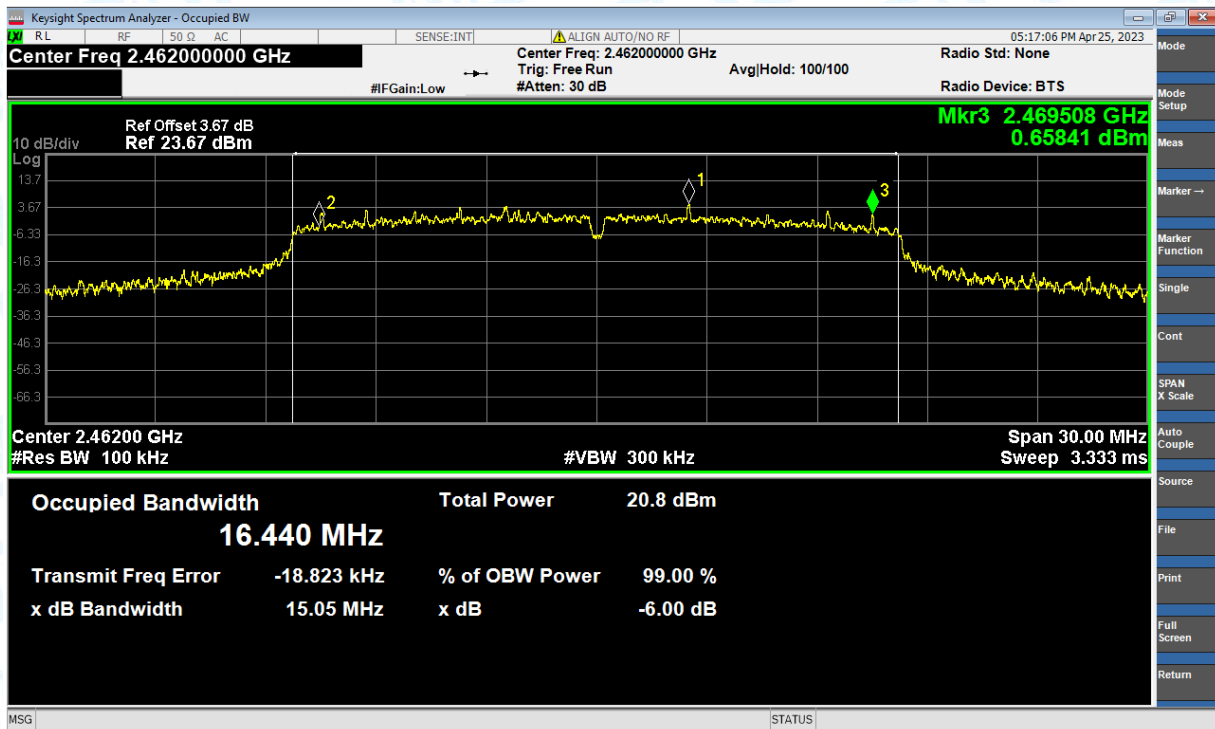
-6dB Bandwidth NVNT g 2412MHz Ant1



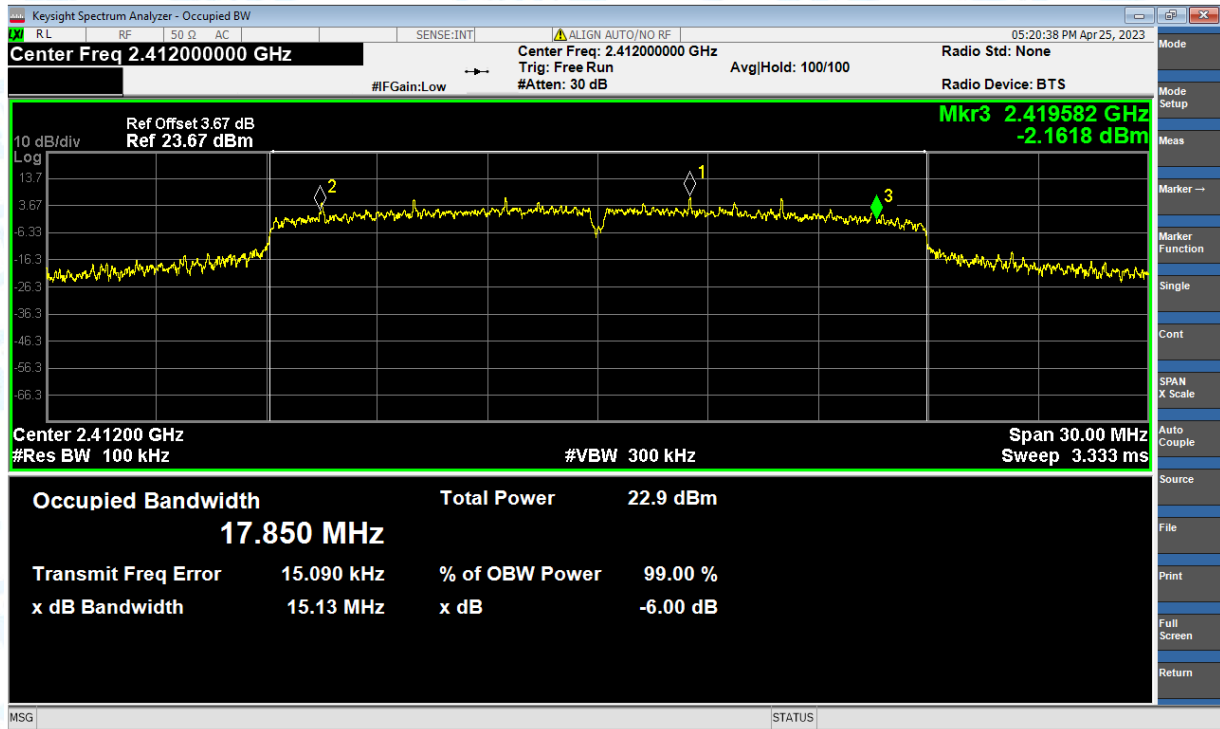
-6dB Bandwidth NVNT g 2437MHz Ant1



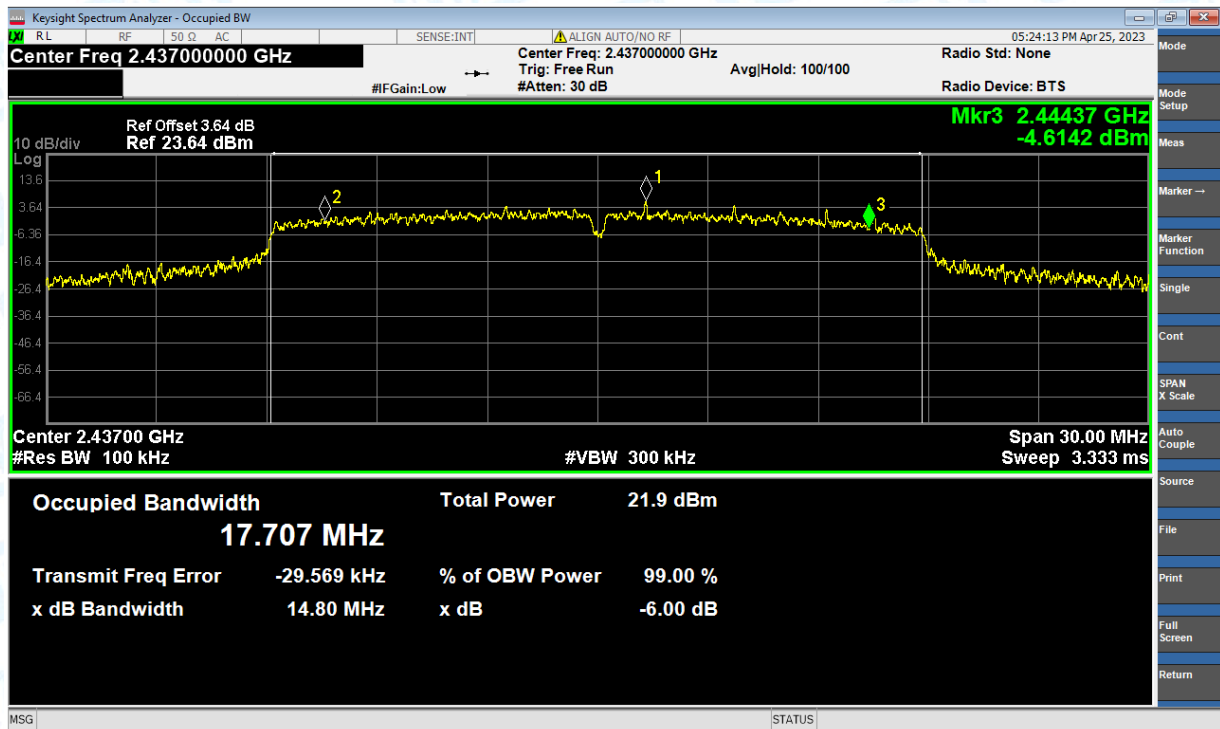
-6dB Bandwidth NVNT g 2462MHz Ant1

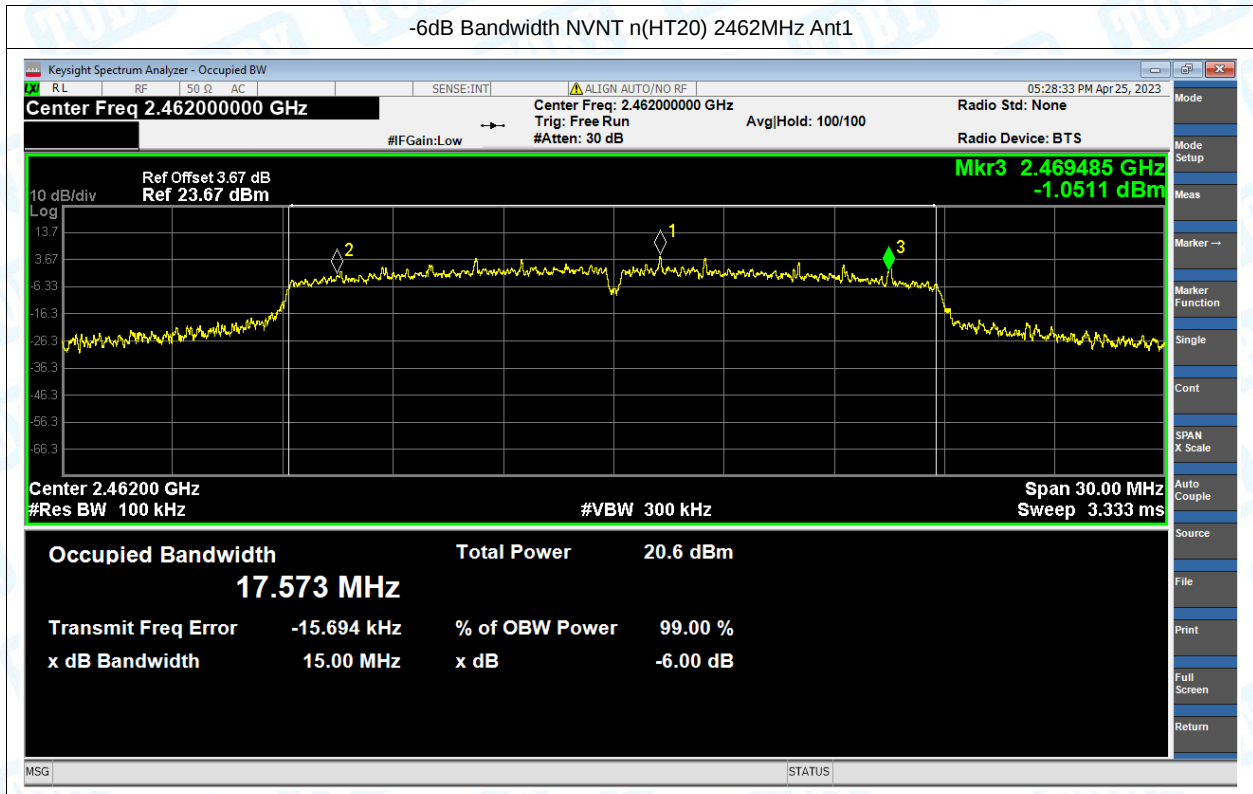


-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



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



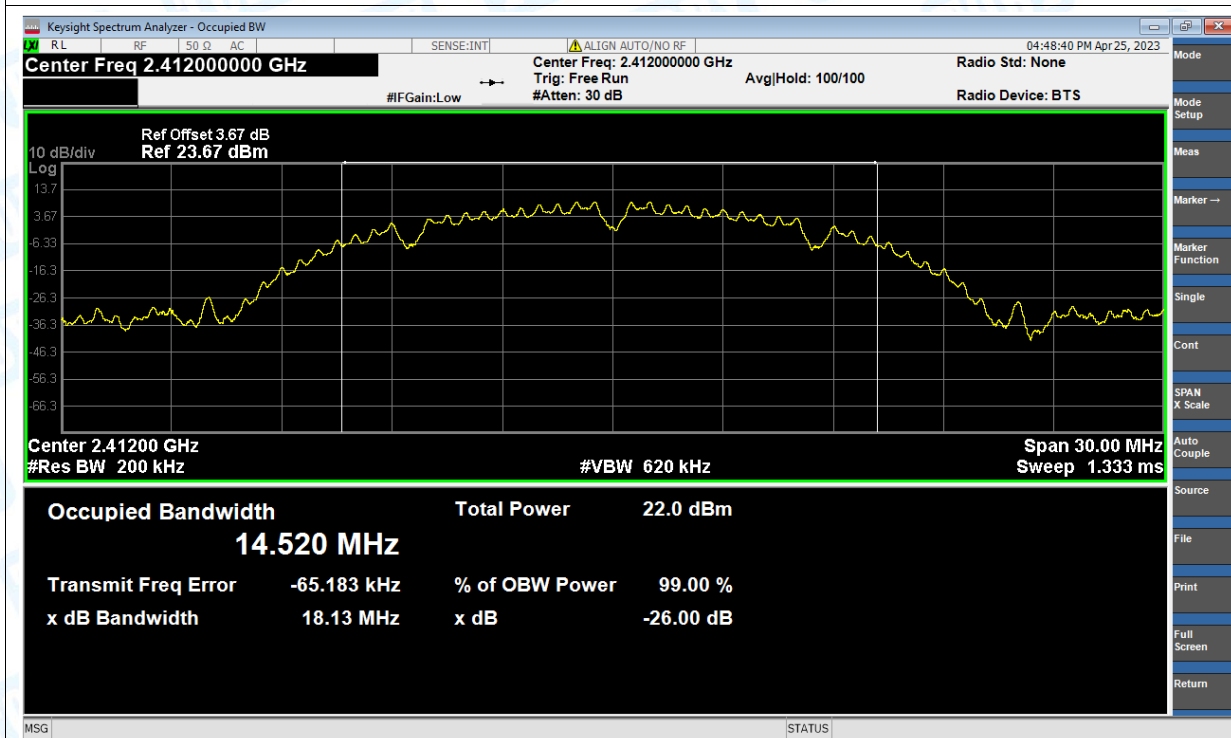


4.Occupied Channel Bandwidth

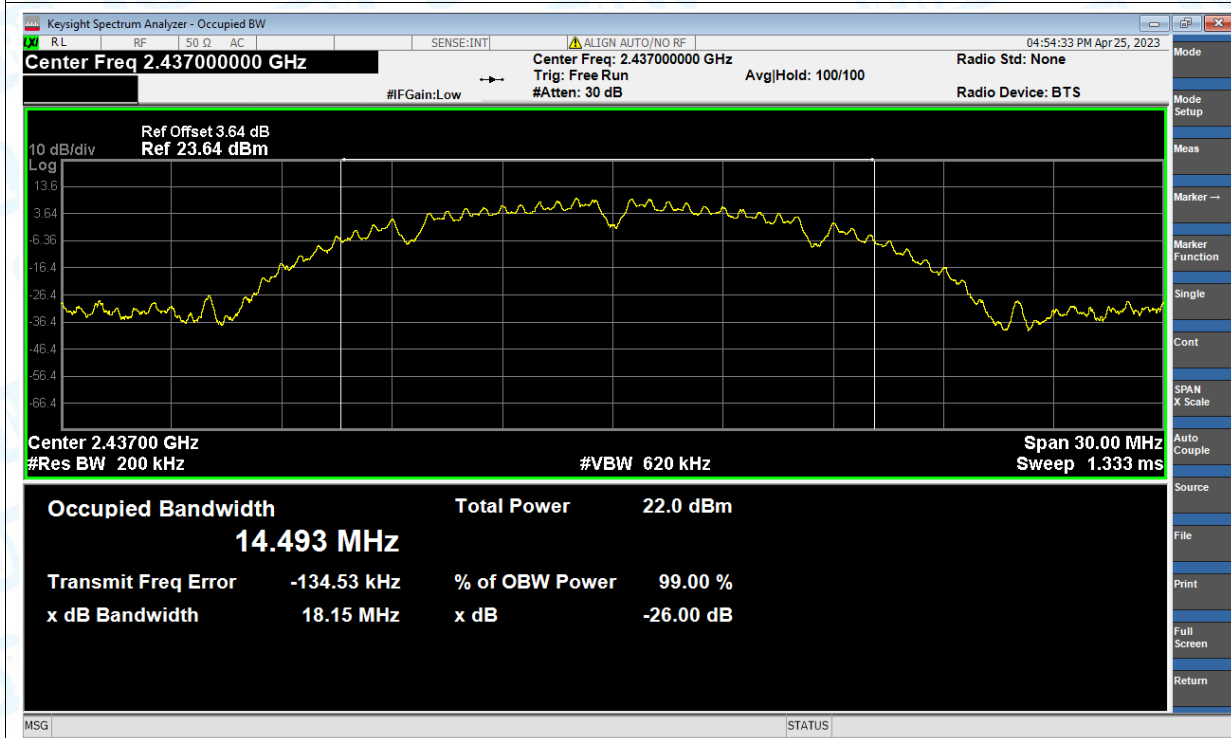
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.52
NVNT	b	2437	Ant1	14.493
NVNT	b	2462	Ant1	15.001
NVNT	g	2412	Ant1	17.644
NVNT	g	2437	Ant1	16.641
NVNT	g	2462	Ant1	16.521
NVNT	n(HT20)	2412	Ant1	18.026
NVNT	n(HT20)	2437	Ant1	17.769
NVNT	n(HT20)	2462	Ant1	17.601

Test Graphs

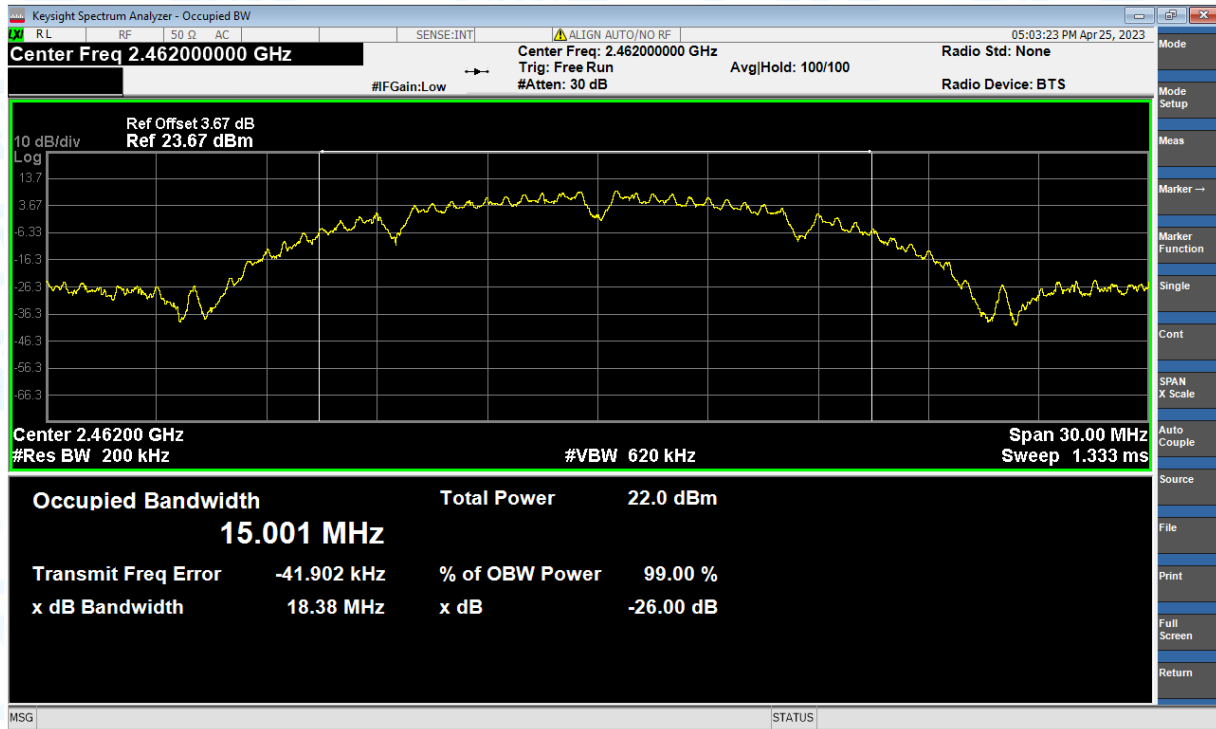
OBW NVNT b 2412MHz Ant1



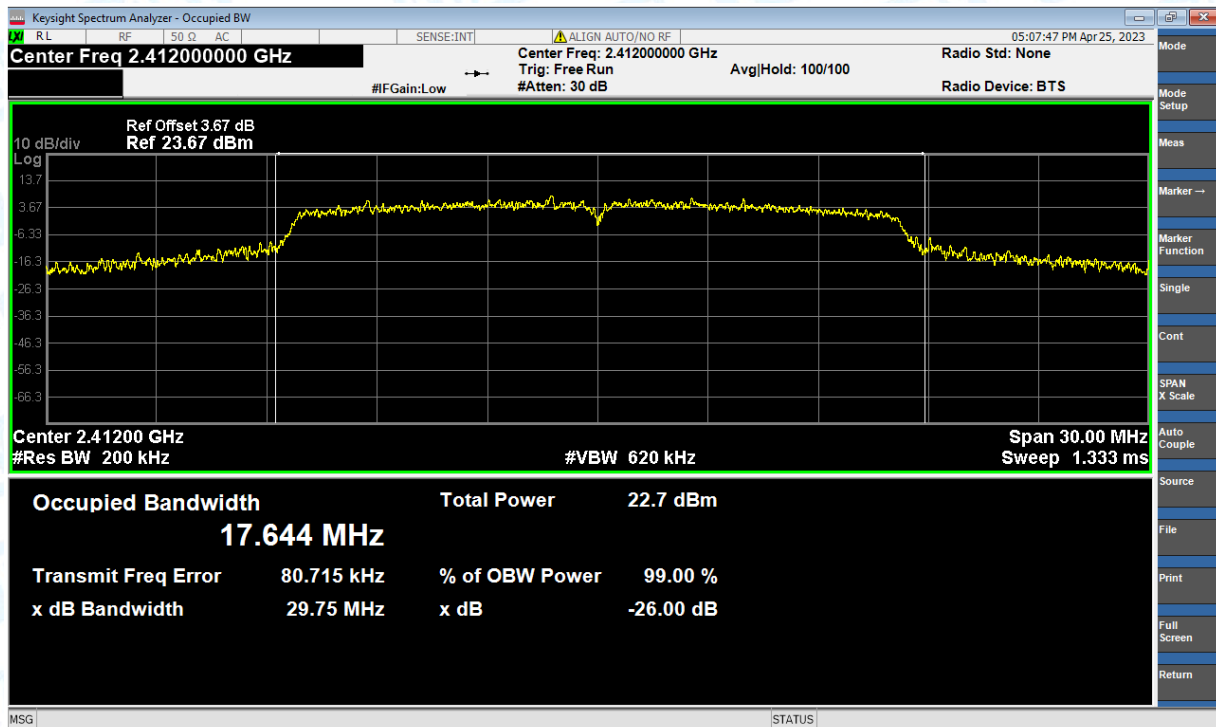
OBW NVNT b 2437MHz Ant1



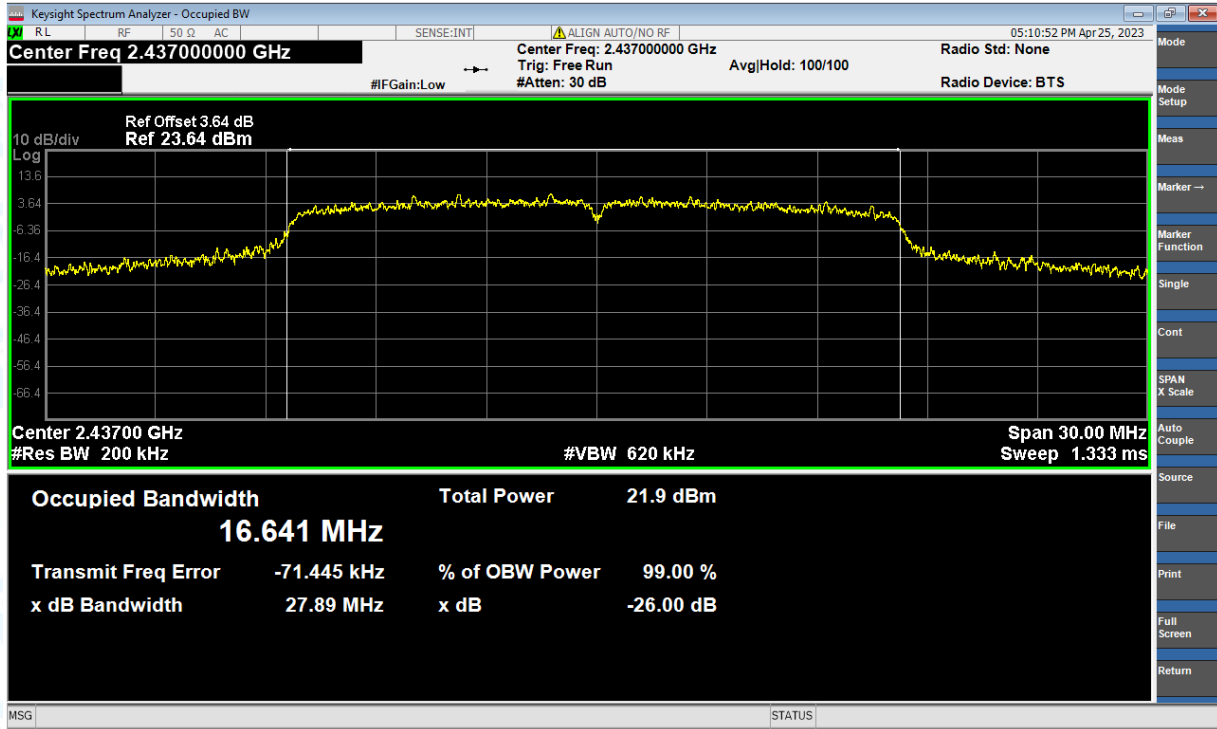
OBW NVNT b 2462MHz Ant1



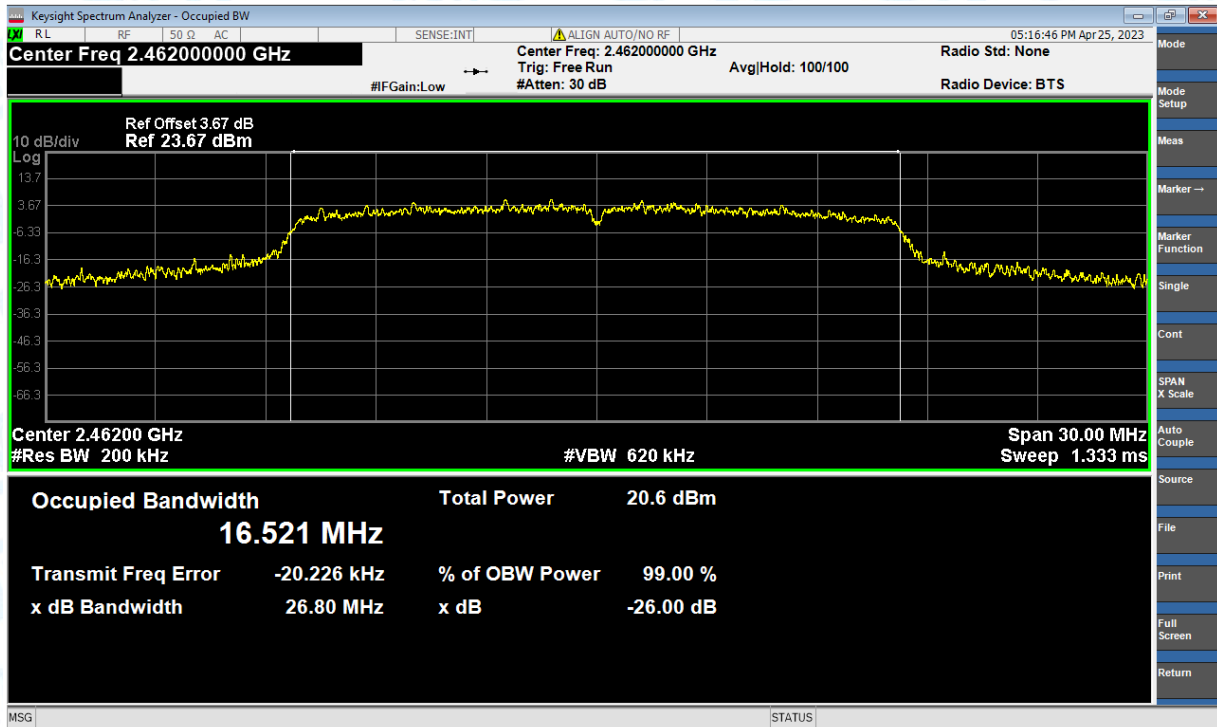
OBW NVNT g 2412MHz Ant1



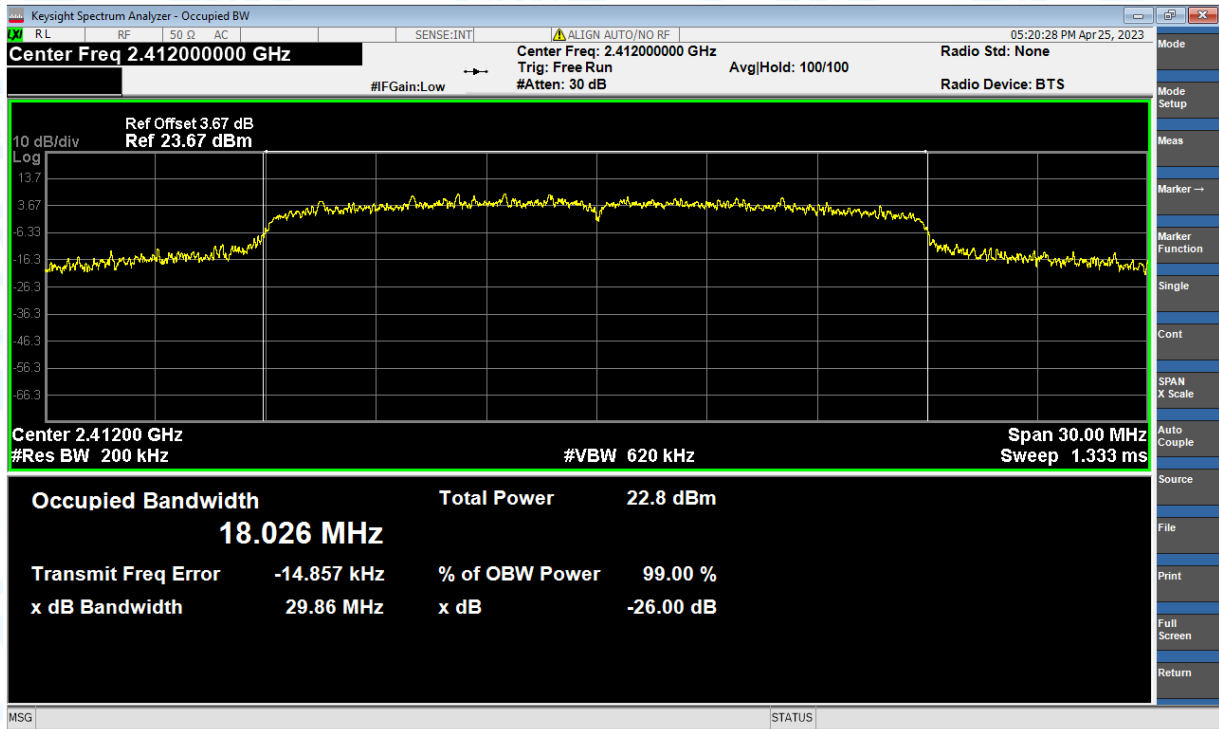
OBW NVNT g 2437MHz Ant1



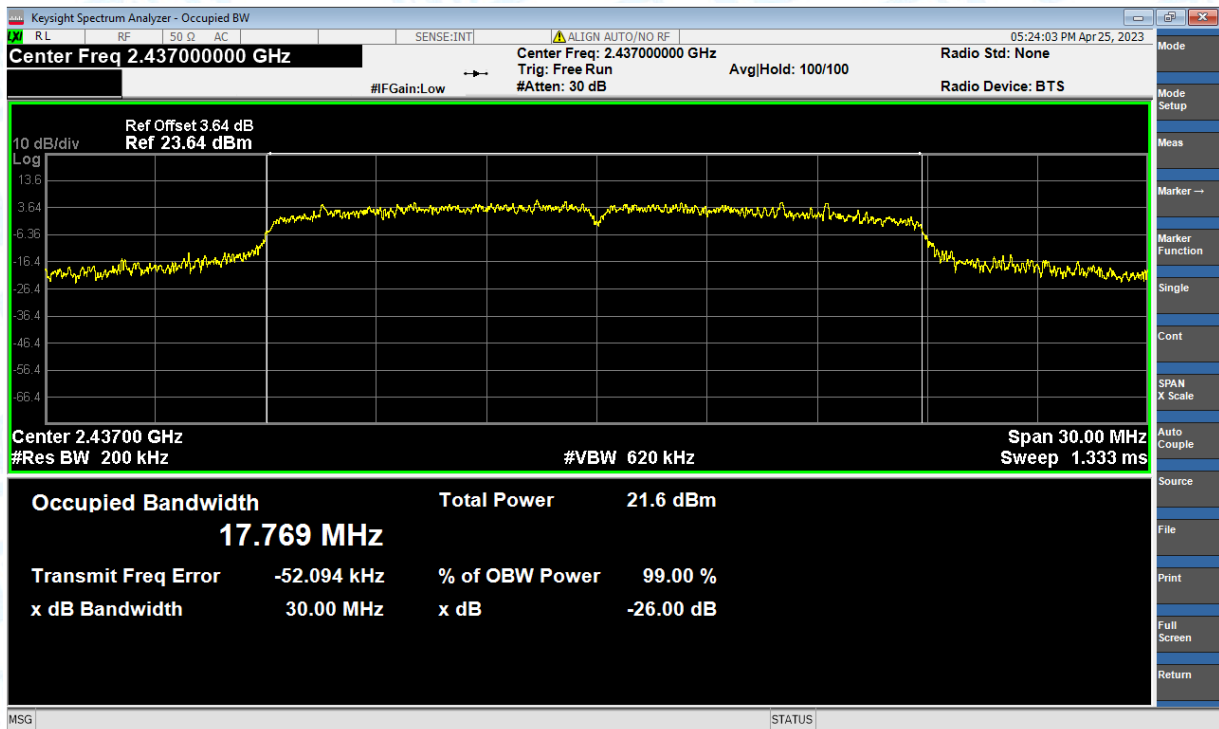
OBW NVNT g 2462MHz Ant1

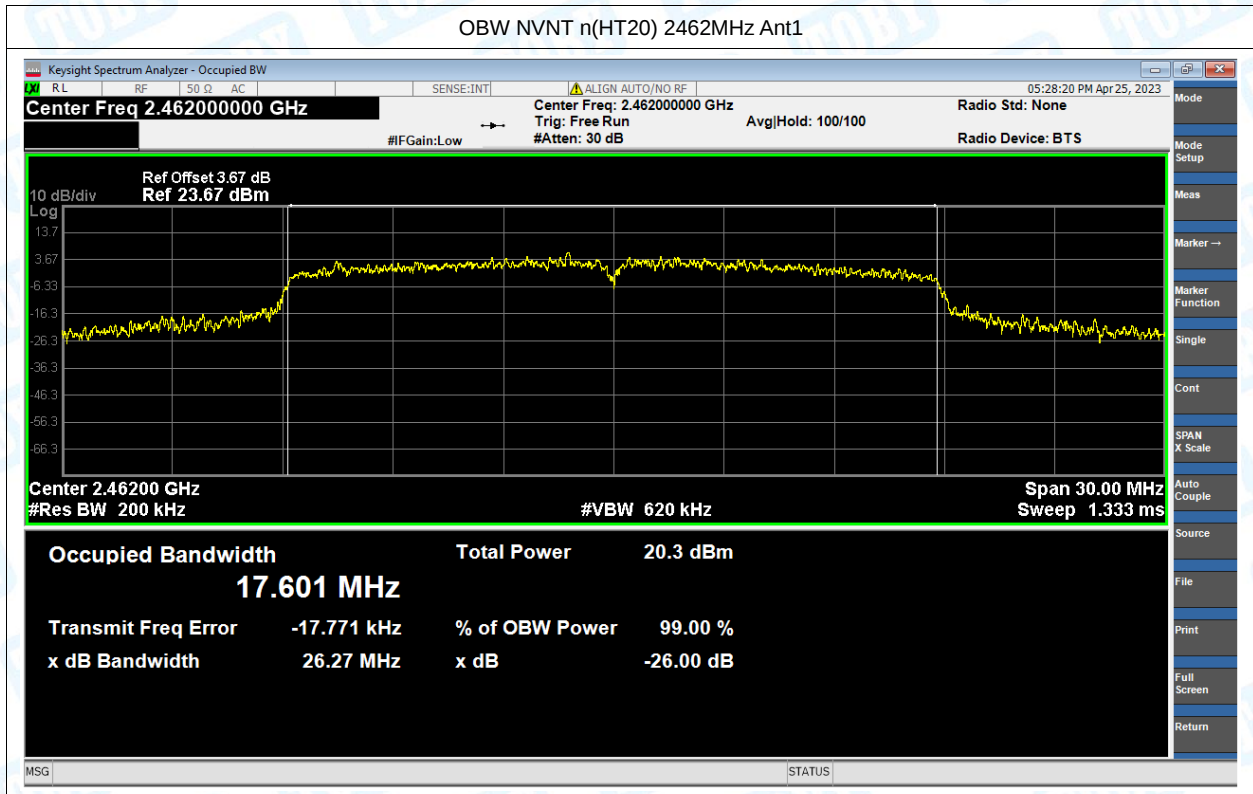


OBW NVNT n(HT20) 2412MHz Ant1



OBW NVNT n(HT20) 2437MHz Ant1





5.Maximum Power Spectral Density Level

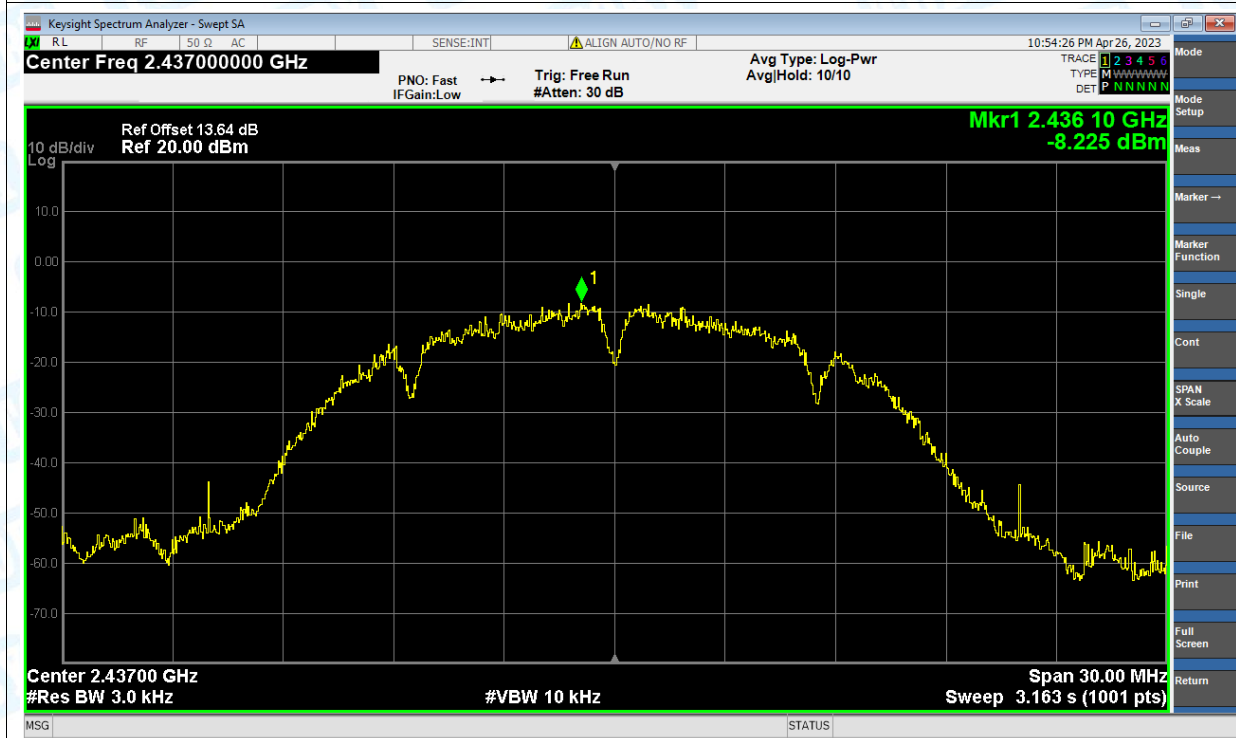
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-7.73	8	Pass
NVNT	b	2437	Ant1	-8.225	8	Pass
NVNT	b	2462	Ant1	-8.143	8	Pass
NVNT	g	2412	Ant1	-7.354	8	Pass
NVNT	g	2437	Ant1	-8.22	8	Pass
NVNT	g	2462	Ant1	-8.219	8	Pass
NVNT	n(HT20)	2412	Ant1	-7.362	8	Pass
NVNT	n(HT20)	2437	Ant1	-7.856	8	Pass
NVNT	n(HT20)	2462	Ant1	-8.324	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



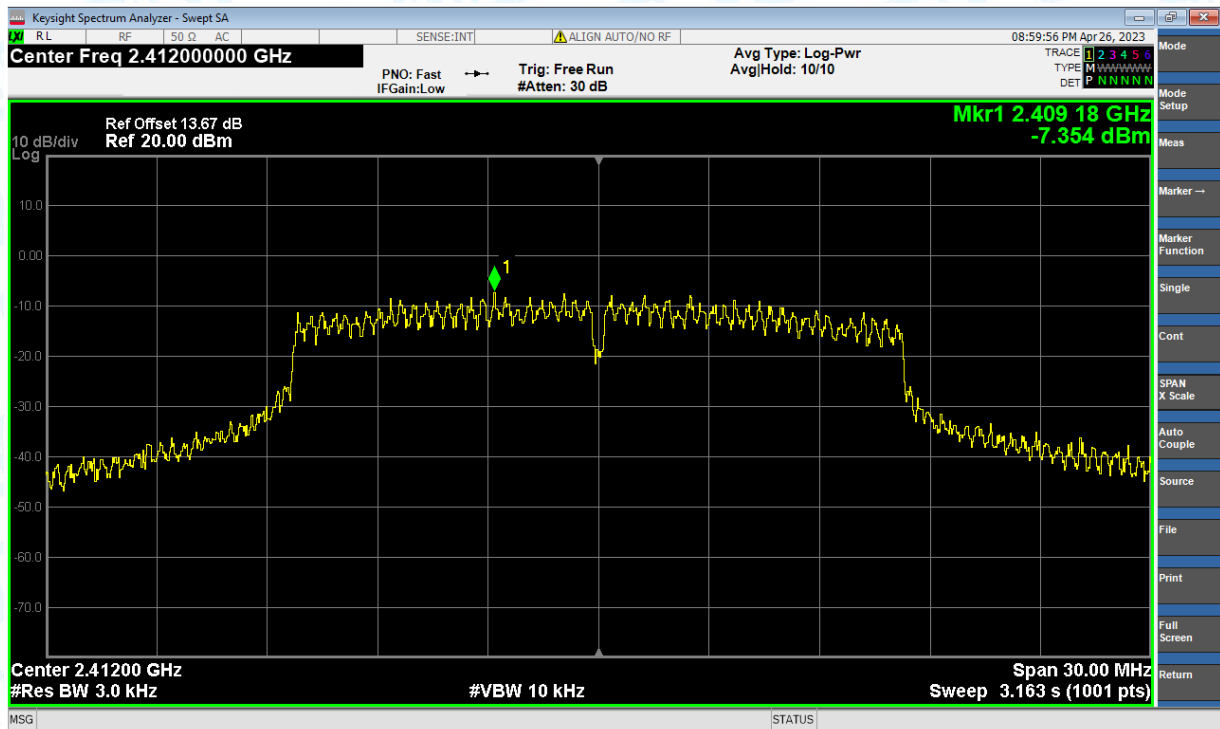
PSD NVNT b 2437MHz Ant1



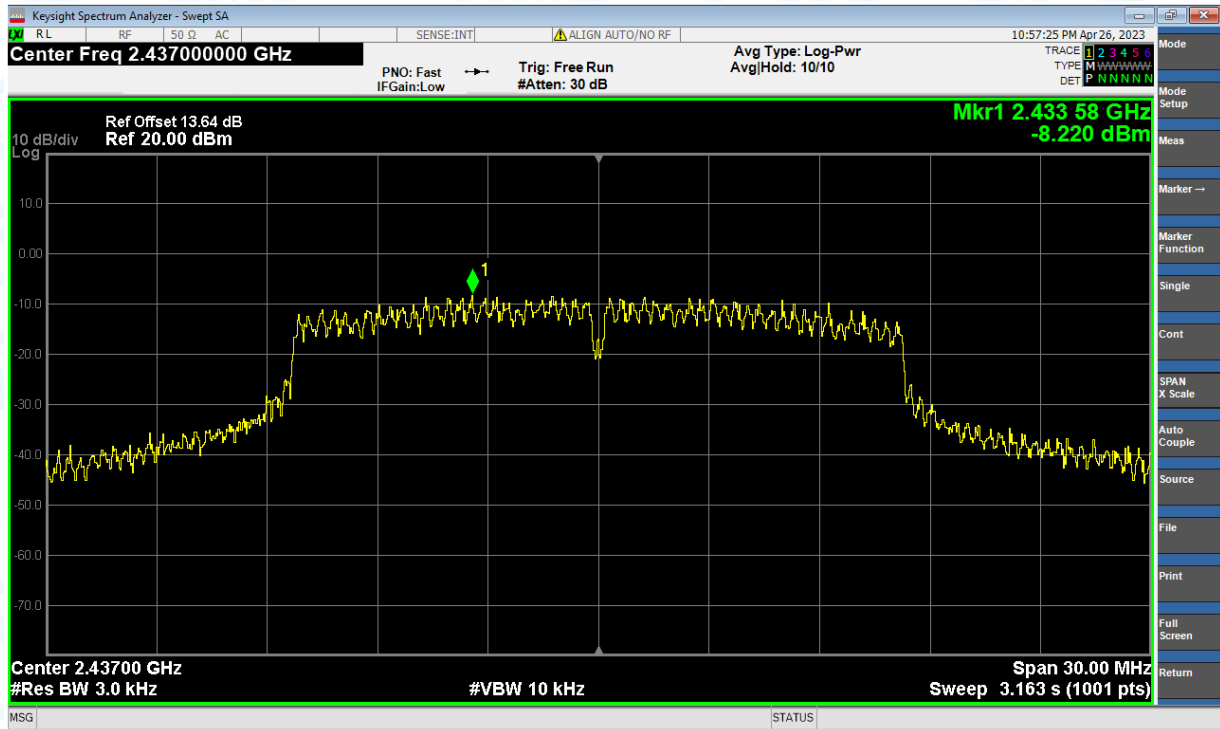
PSD NVNT b 2462MHz Ant1



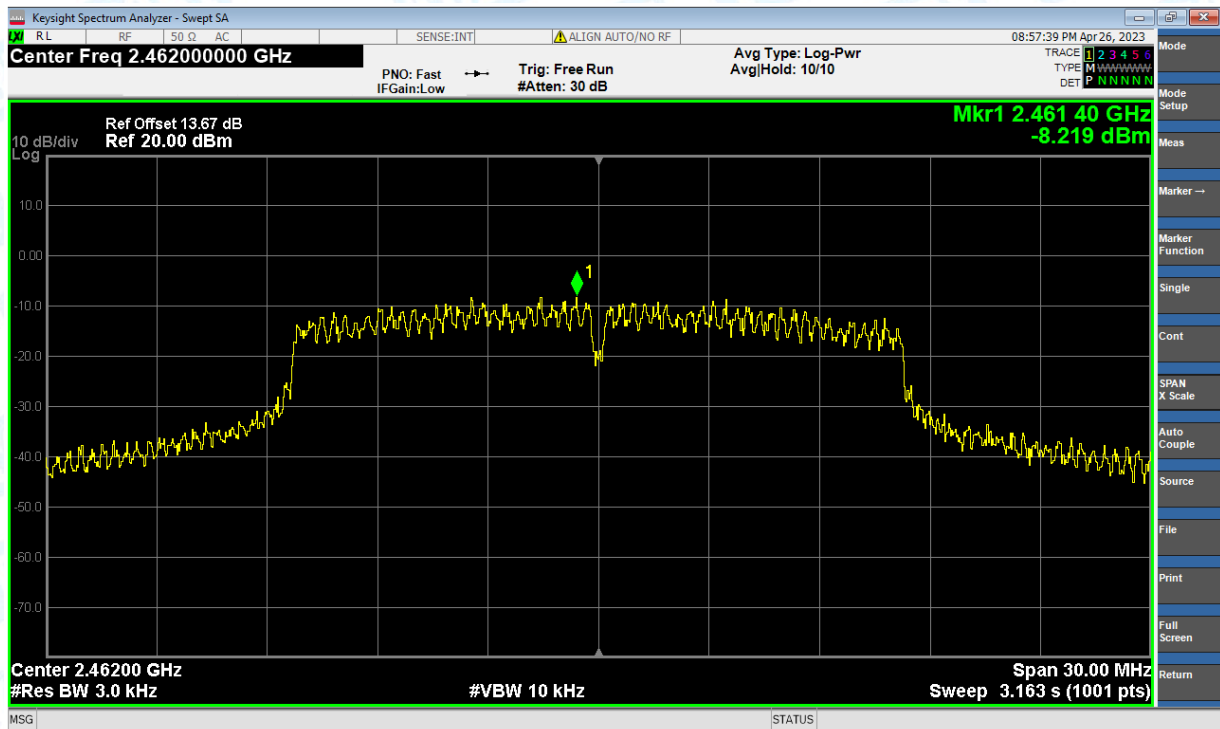
PSD NVNT g 2412MHz Ant1



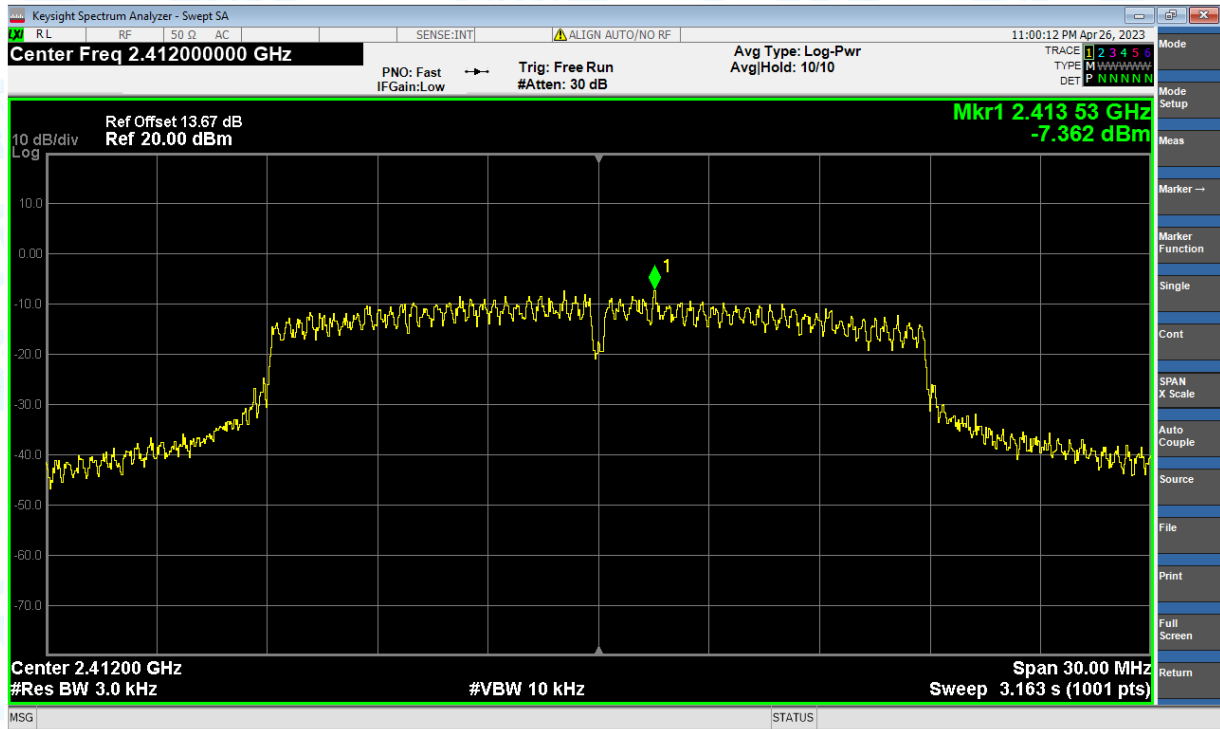
PSD NVNT g 2437MHz Ant1



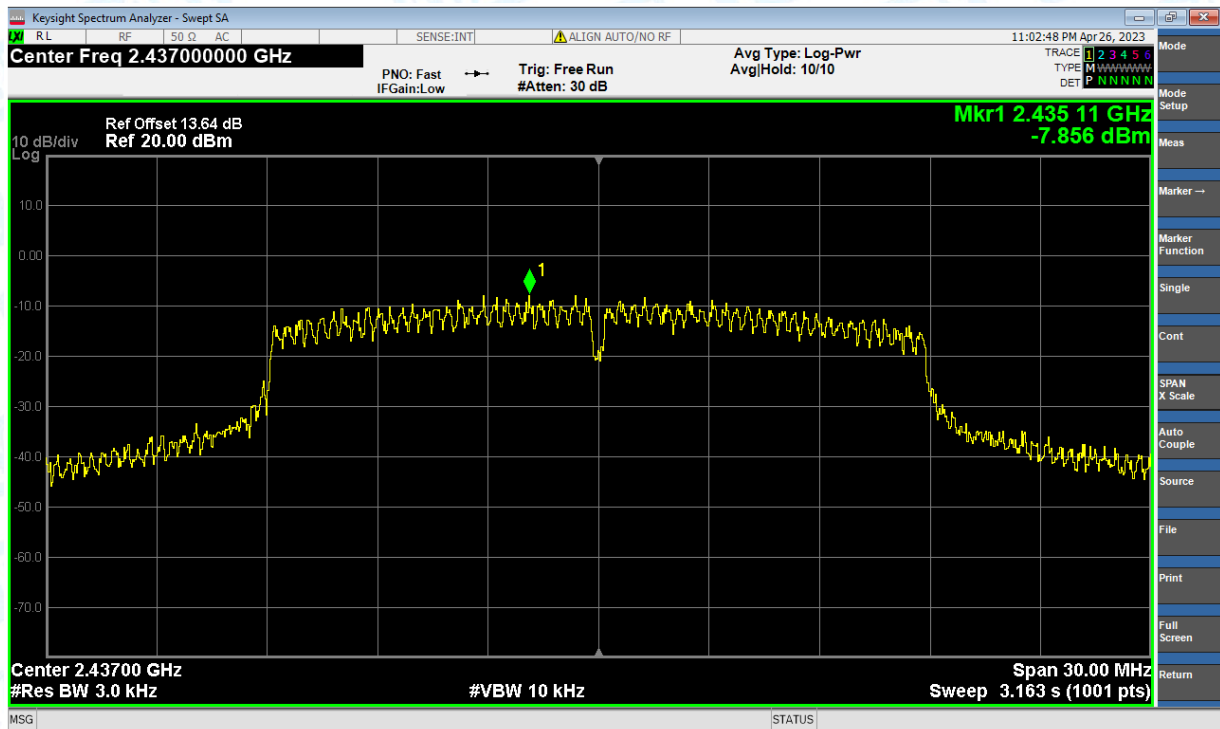
PSD NVNT g 2462MHz Ant1

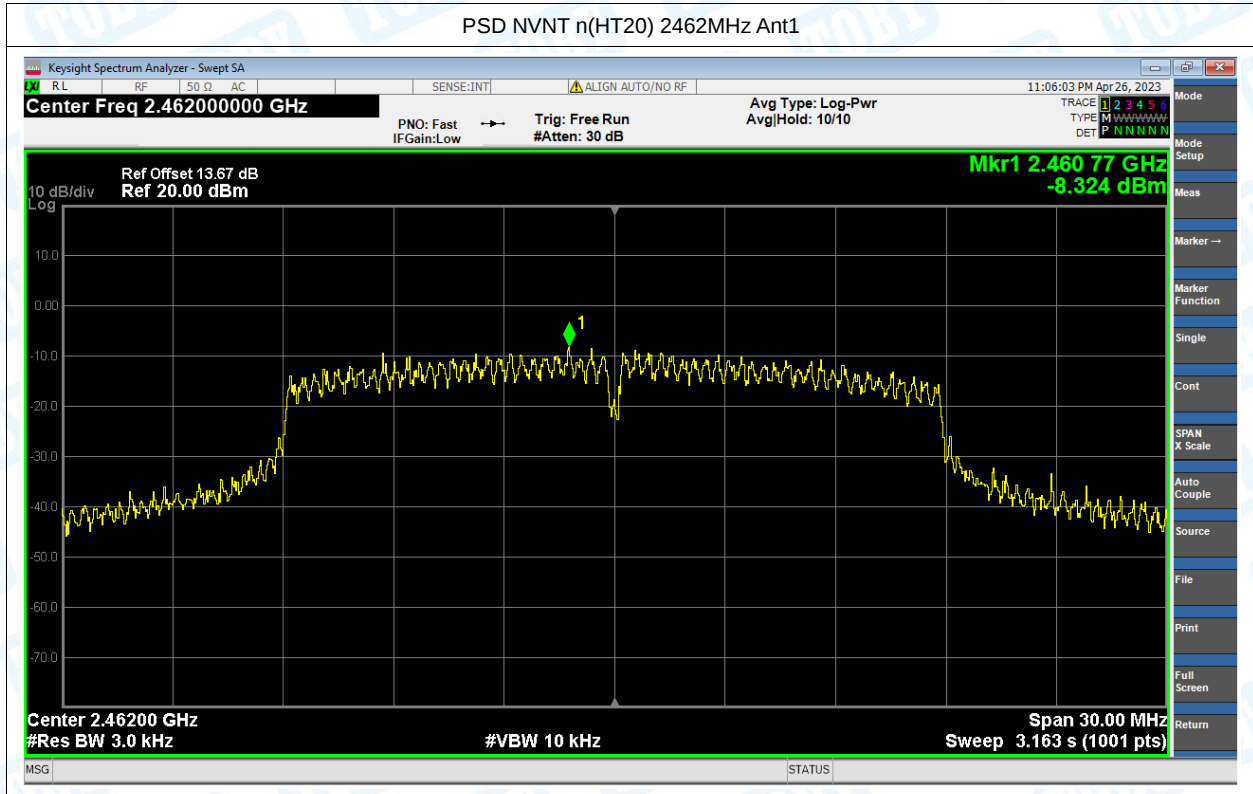


PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1



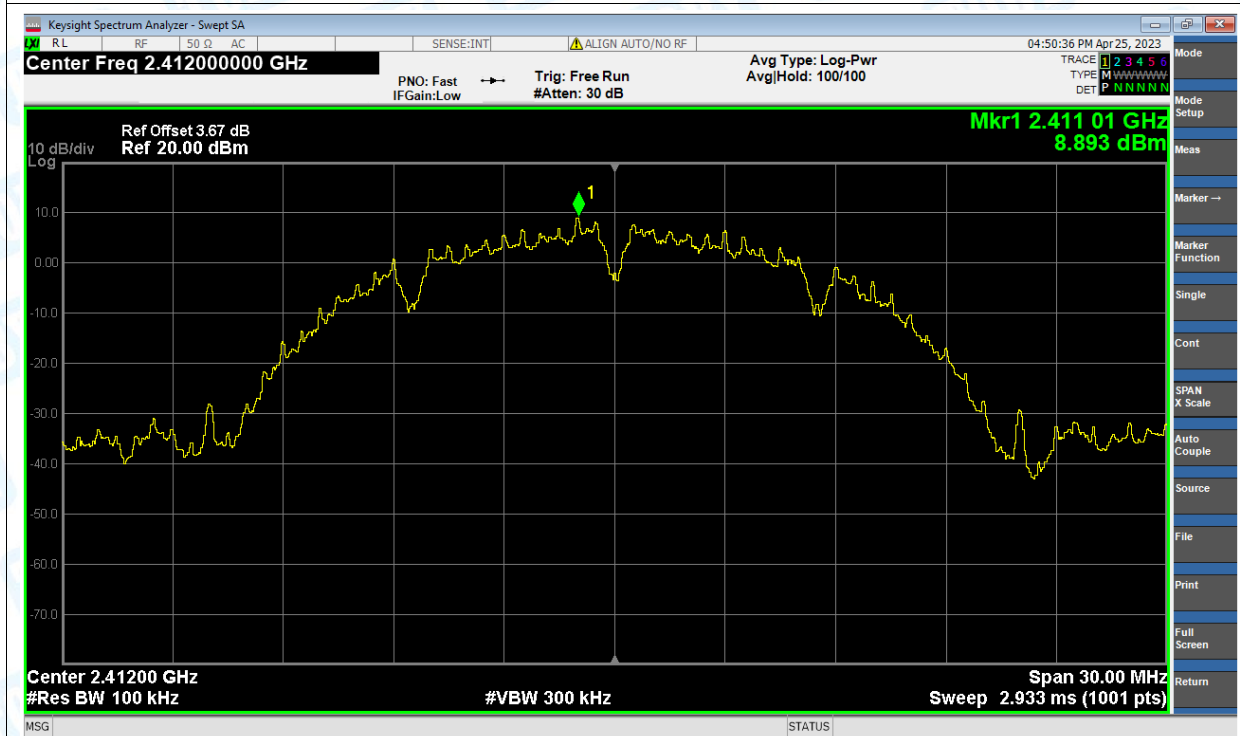


6.Band Edge

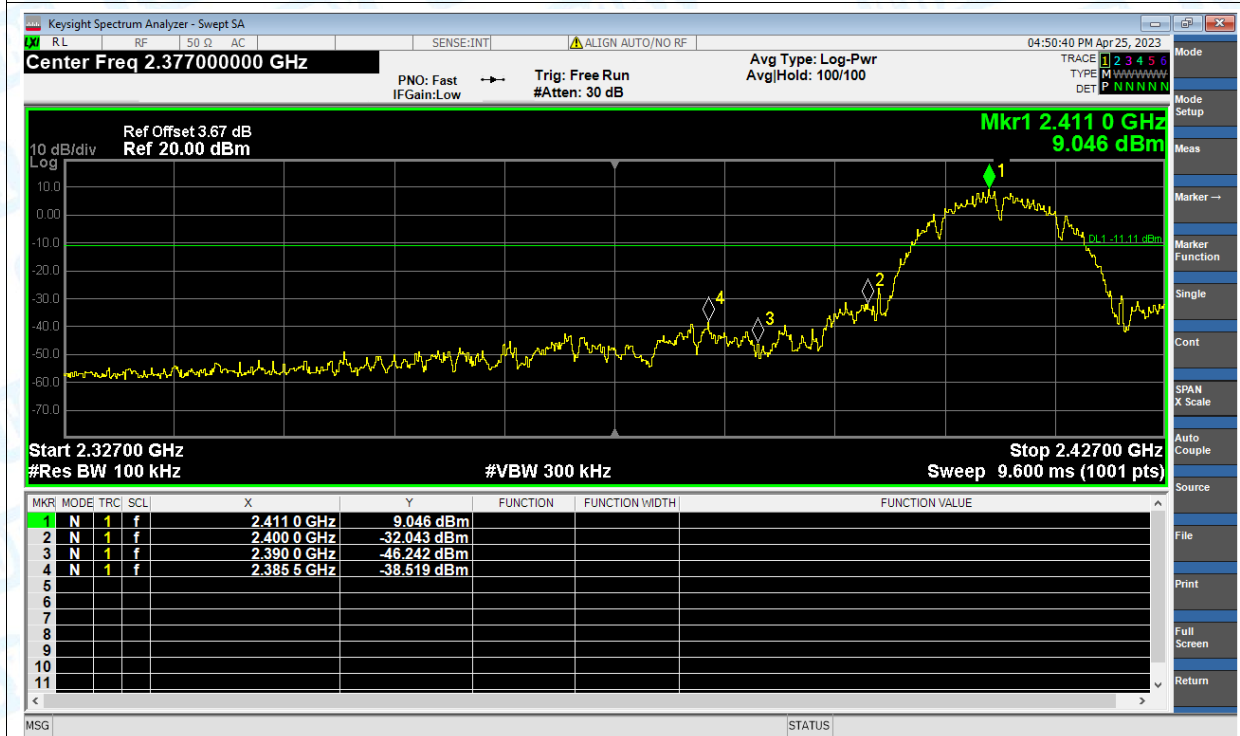
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.41	-20	Pass
NVNT	b	2462	Ant1	-48.78	-20	Pass
NVNT	g	2412	Ant1	-39.63	-20	Pass
NVNT	g	2462	Ant1	-39.66	-20	Pass
NVNT	n(HT20)	2412	Ant1	-37.24	-20	Pass
NVNT	n(HT20)	2462	Ant1	-39.15	-20	Pass

Test Graphs

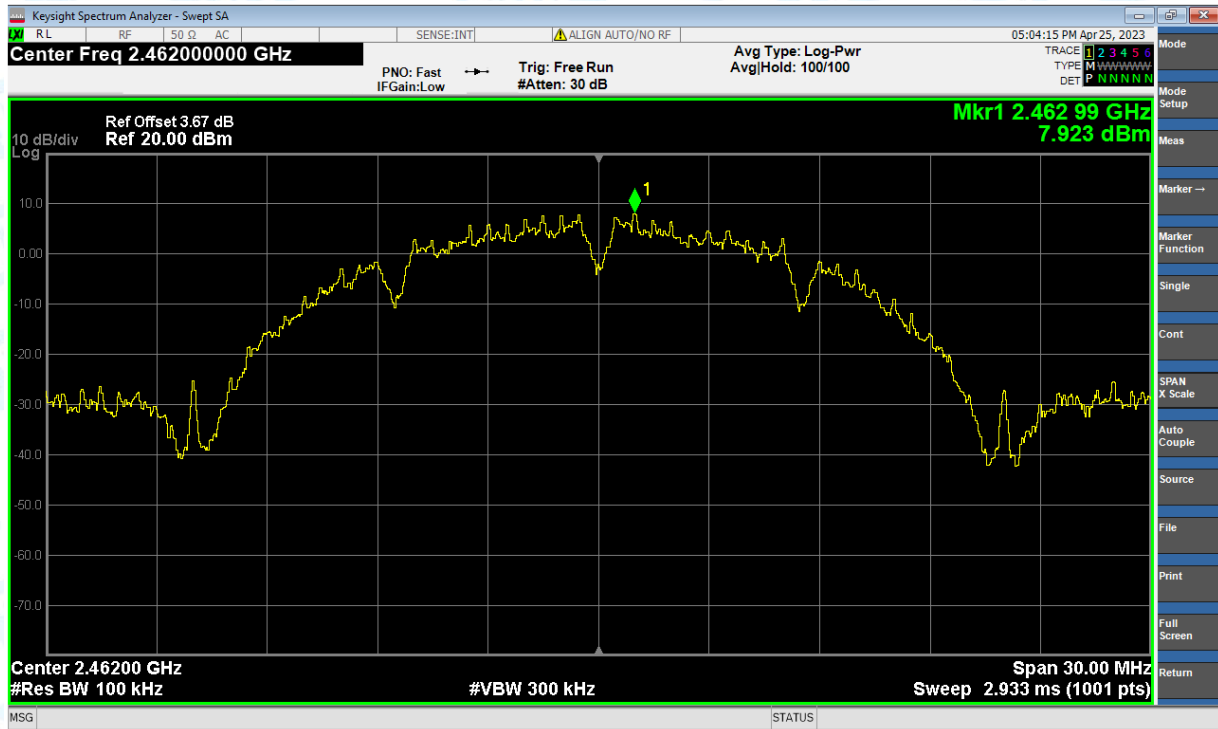
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



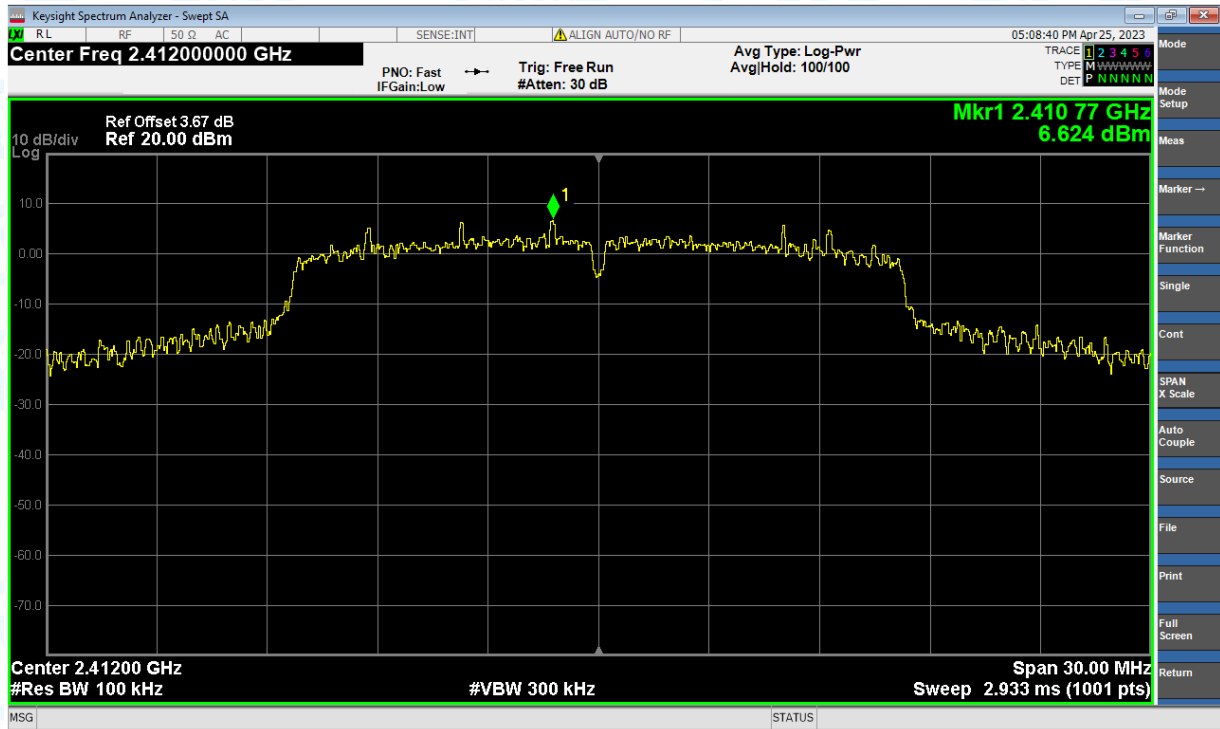
Band Edge NVNT b 2462MHz Ant1 Ref



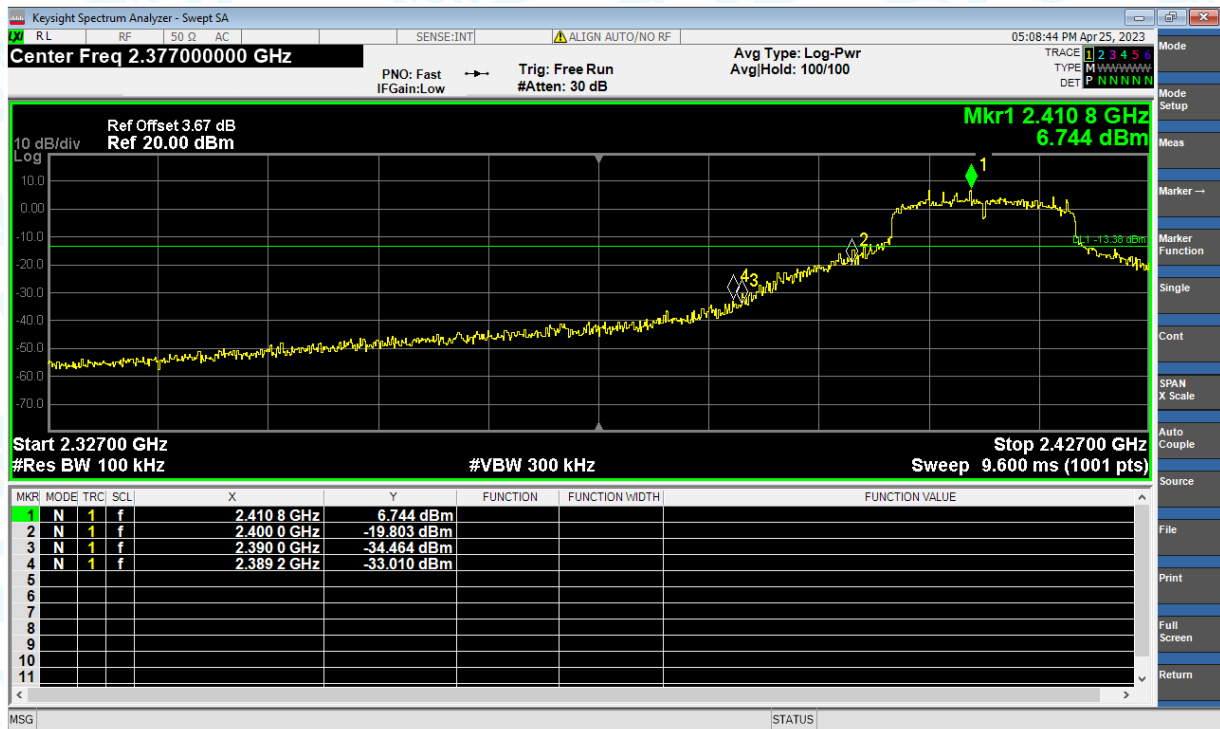
Band Edge NVNT b 2462MHz Ant1 Emission



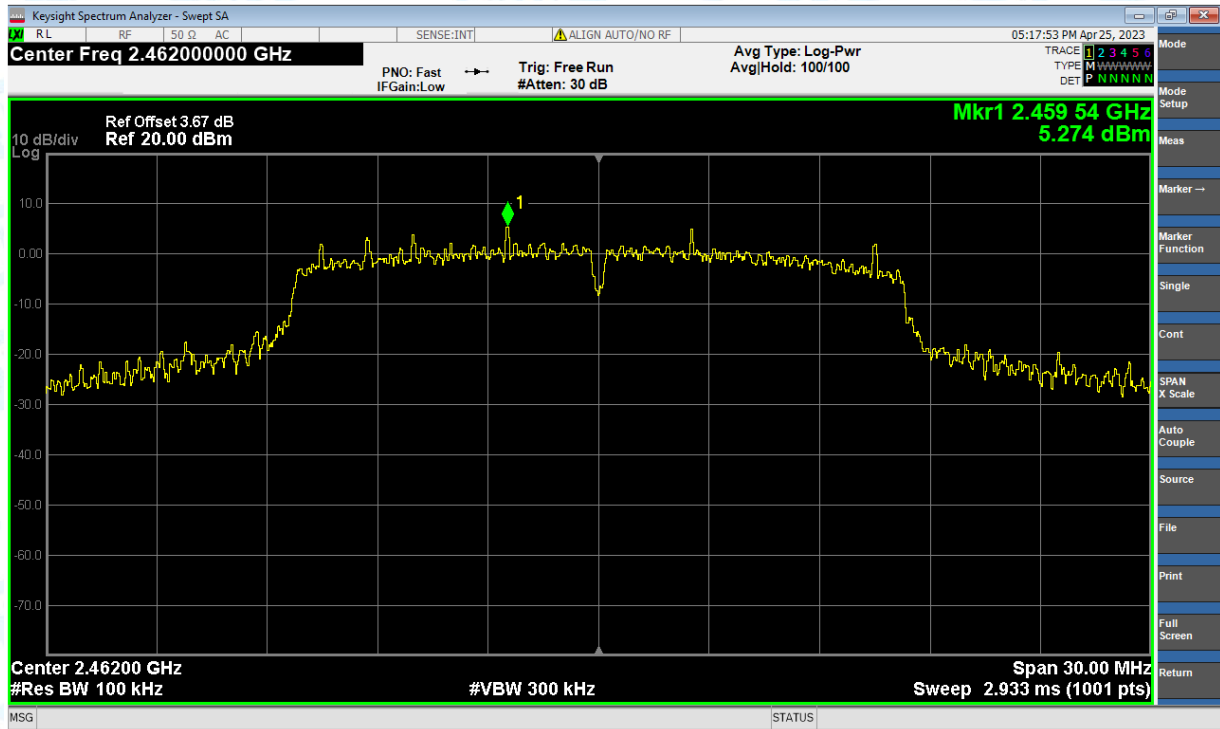
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



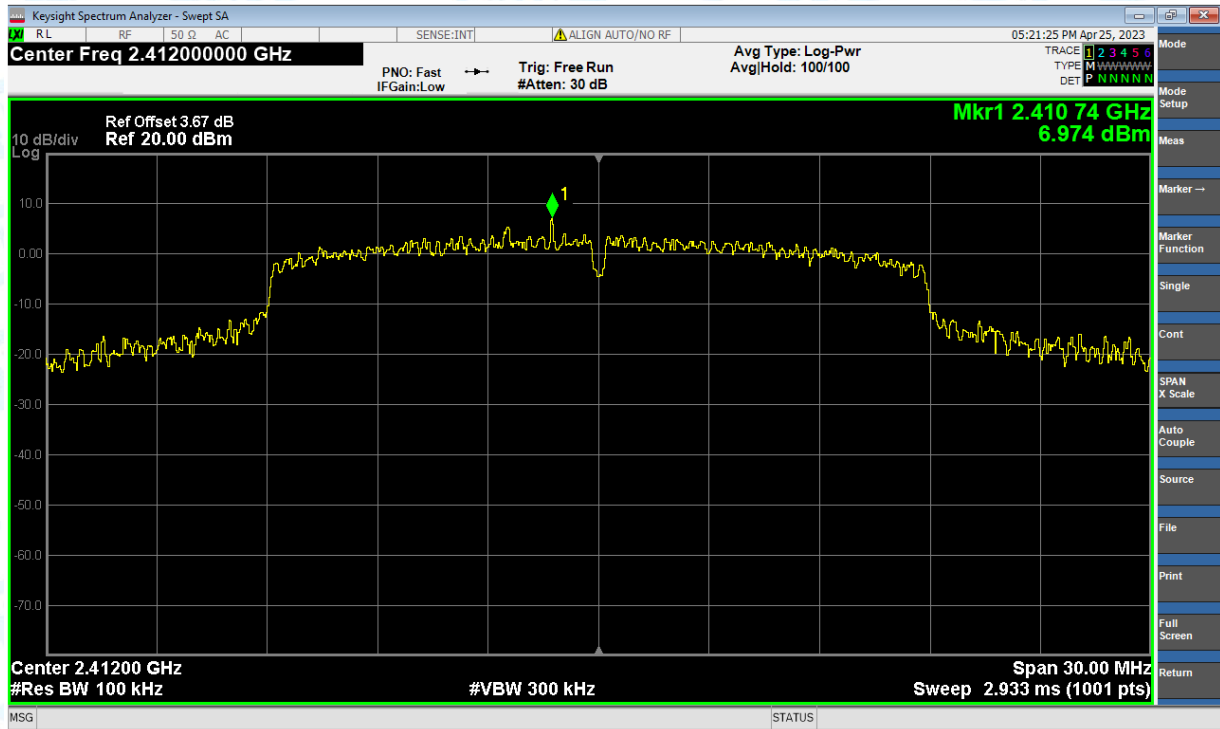
Band Edge NVNT g 2462MHz Ant1 Ref



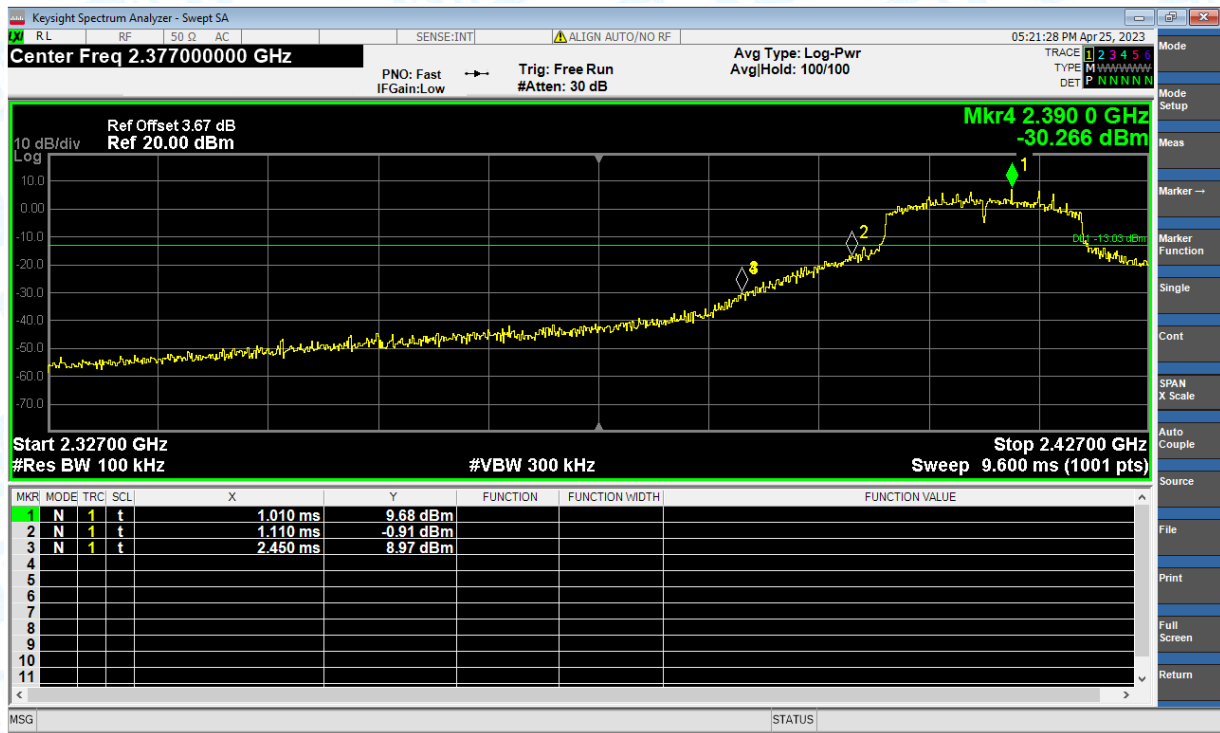
Band Edge NVNT g 2462MHz Ant1 Emission



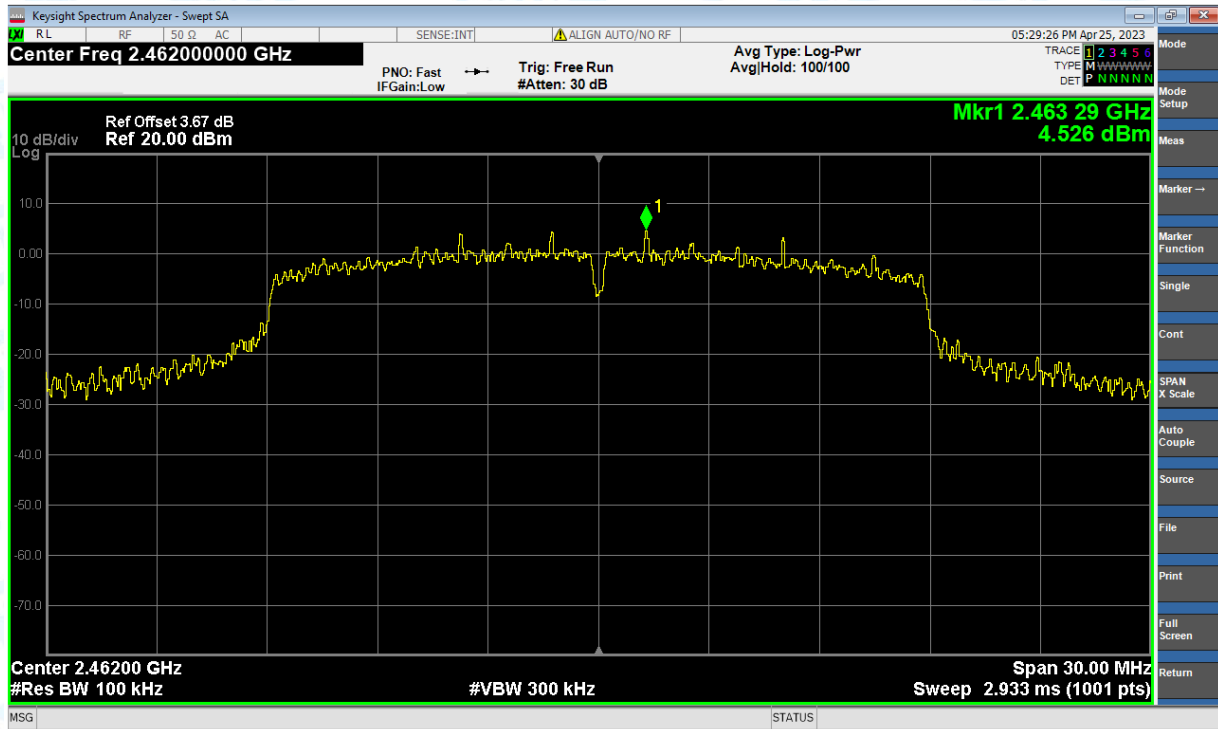
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



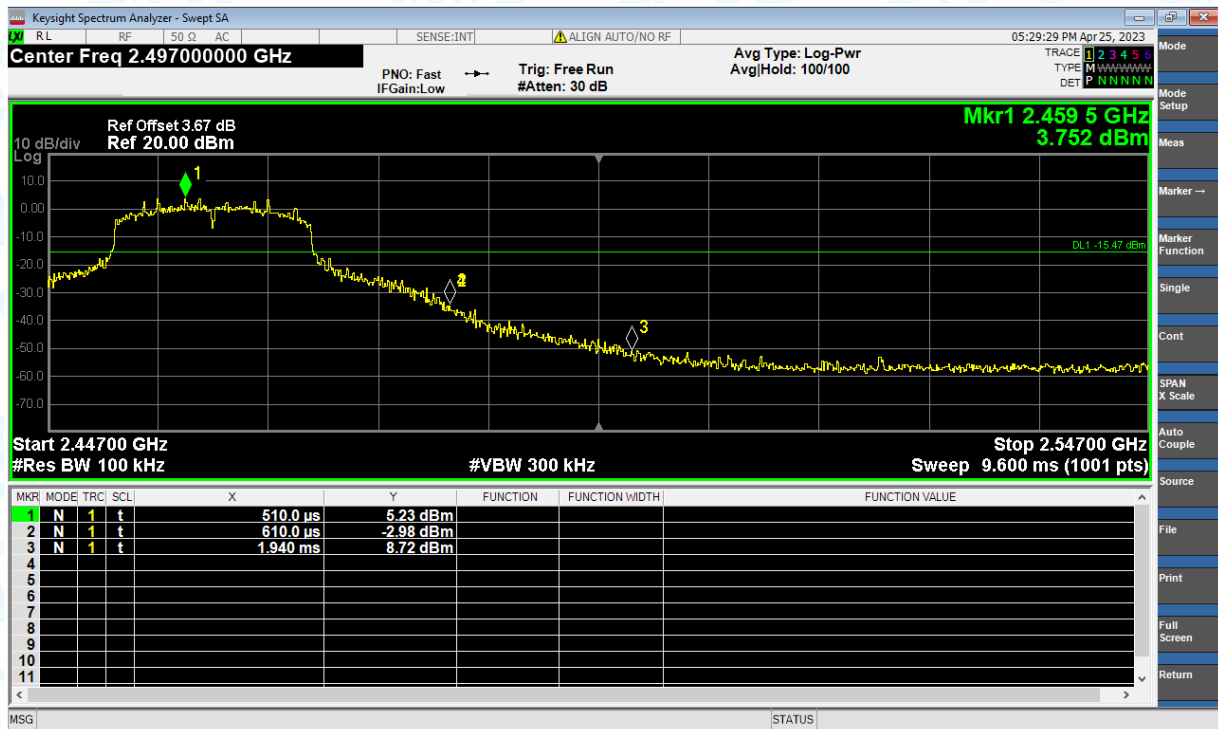
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



Band Edge NVNT n(HT20) 2462MHz Ant1 Emission

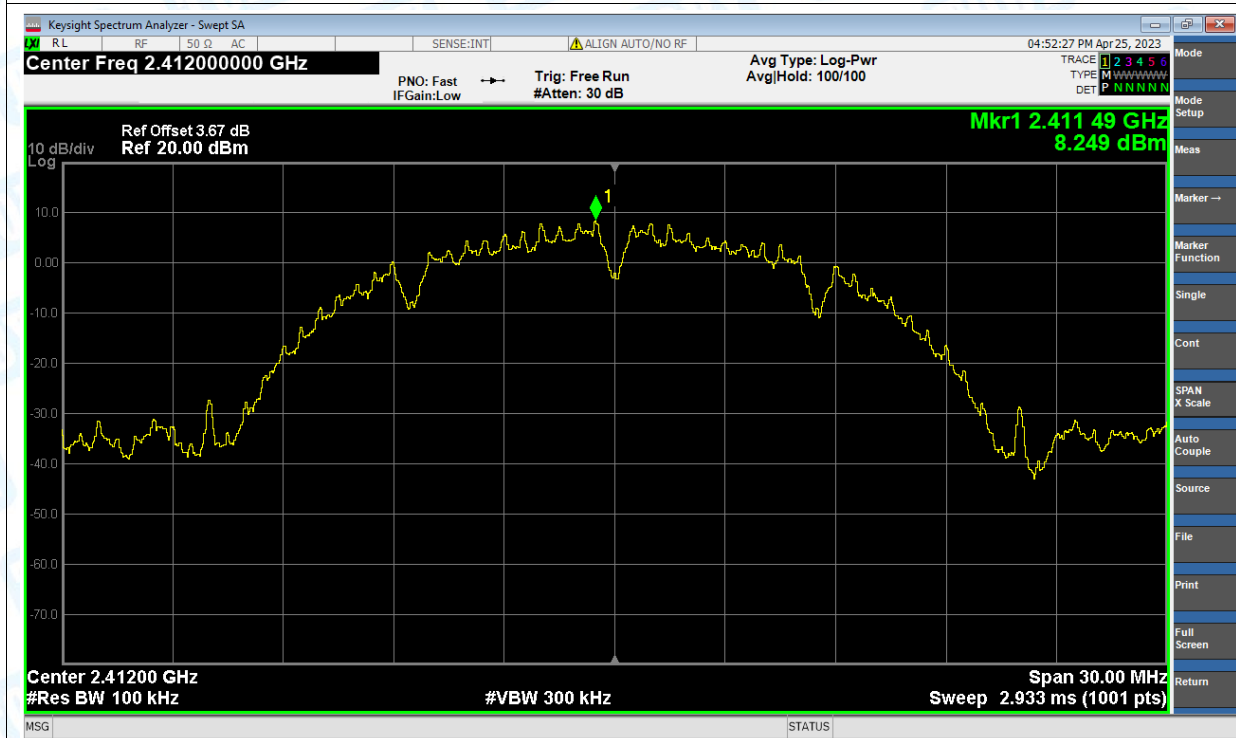


7. Conducted RF Spurious Emission

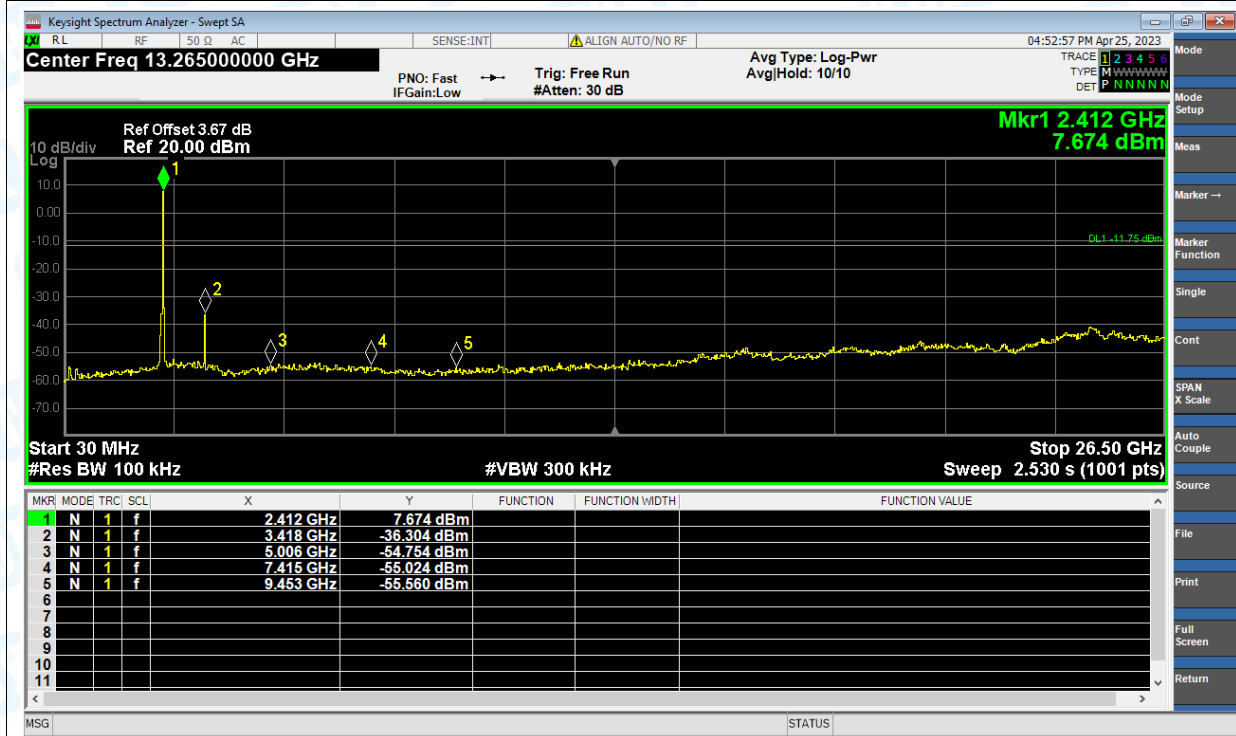
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.55	-20	Pass
NVNT	b	2437	Ant1	-48.39	-20	Pass
NVNT	b	2462	Ant1	-48.67	-20	Pass
NVNT	g	2412	Ant1	-45.98	-20	Pass
NVNT	g	2437	Ant1	-47.13	-20	Pass
NVNT	g	2462	Ant1	-45.95	-20	Pass
NVNT	n(HT20)	2412	Ant1	-48.18	-20	Pass
NVNT	n(HT20)	2437	Ant1	-45.87	-20	Pass
NVNT	n(HT20)	2462	Ant1	-45.17	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



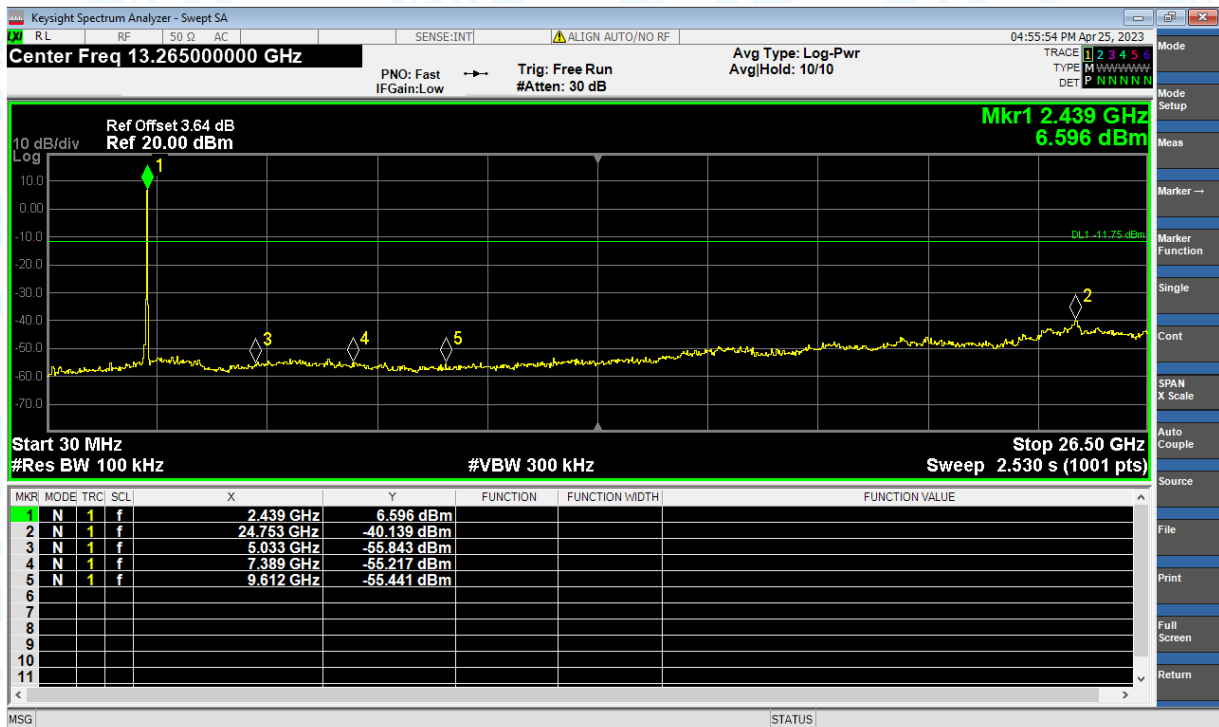
Tx. Spurious NVNT b 2412MHz Ant1 Emission



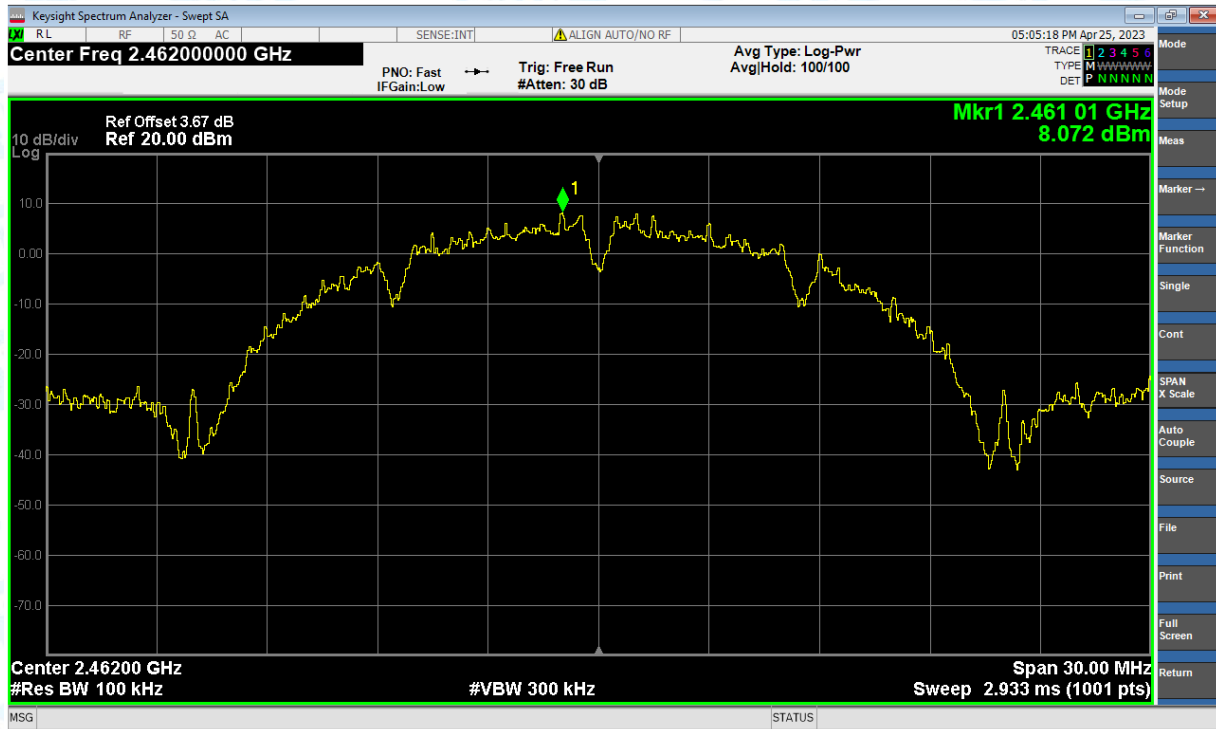
Tx. Spurious NVNT b 2437MHz Ant1 Ref



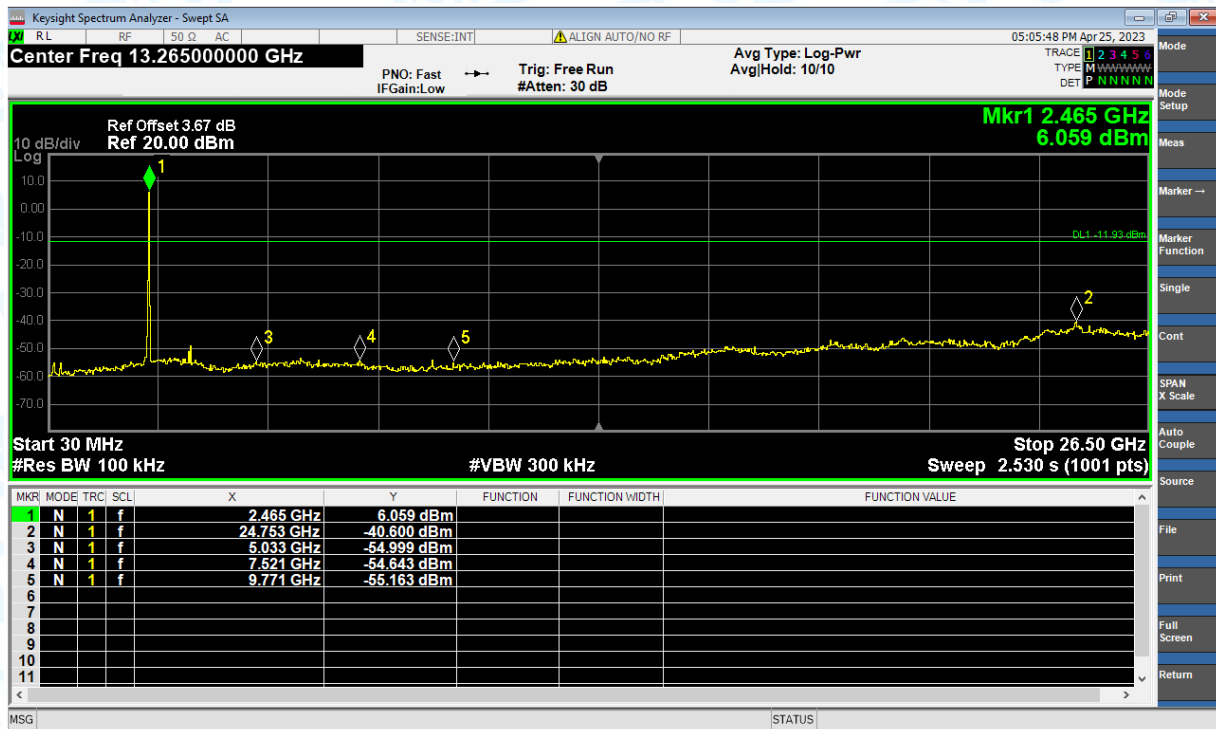
Tx. Spurious NVNT b 2437MHz Ant1 Emission



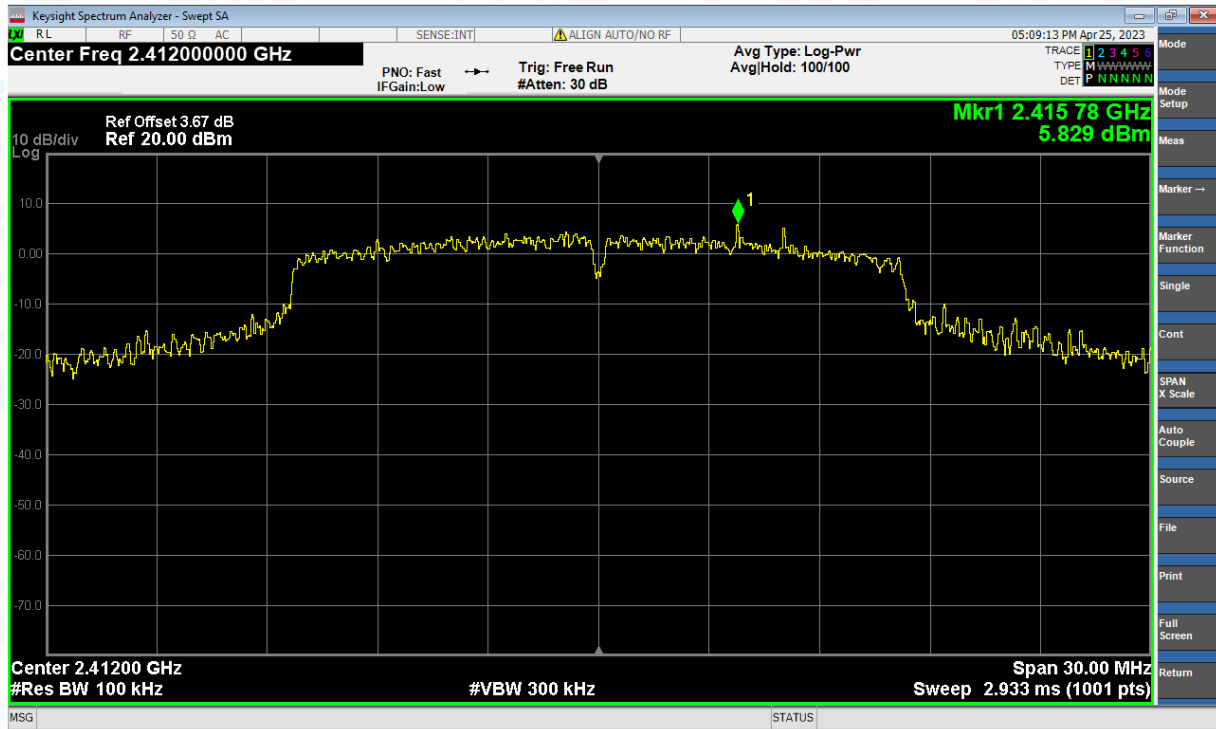
Tx. Spurious NVNT b 2462MHz Ant1 Ref



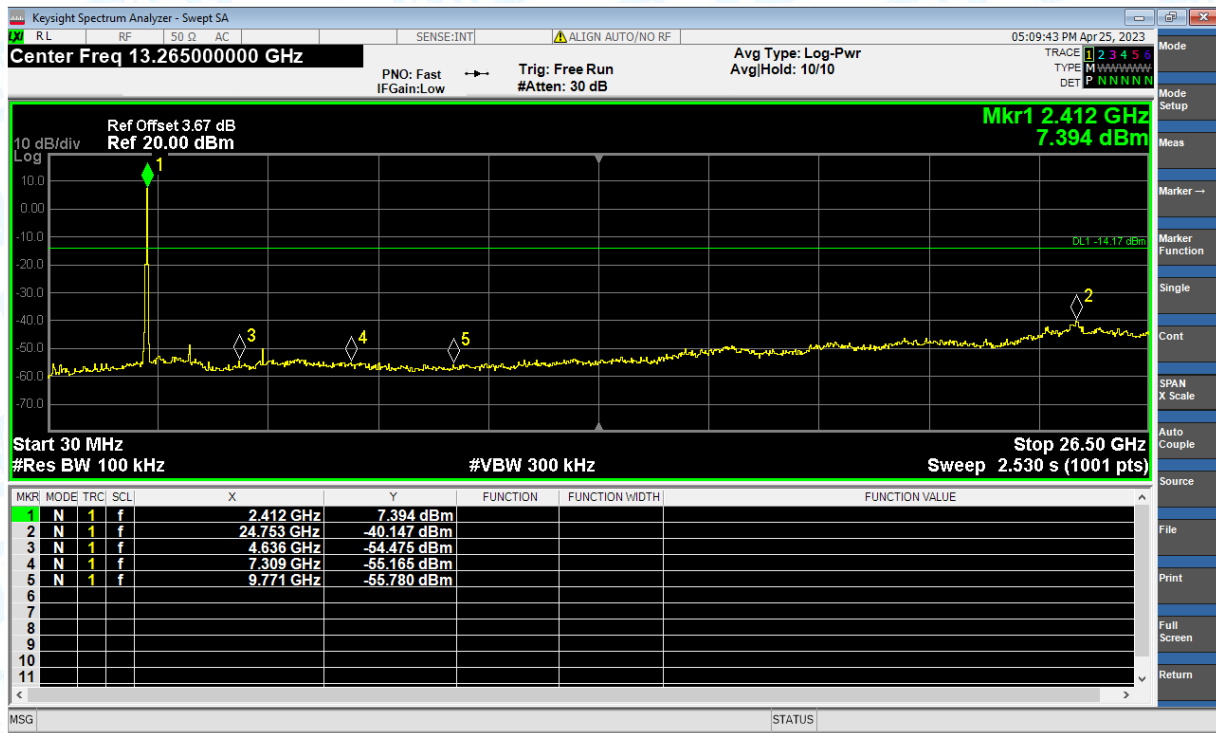
Tx. Spurious NVNT b 2462MHz Ant1 Emission



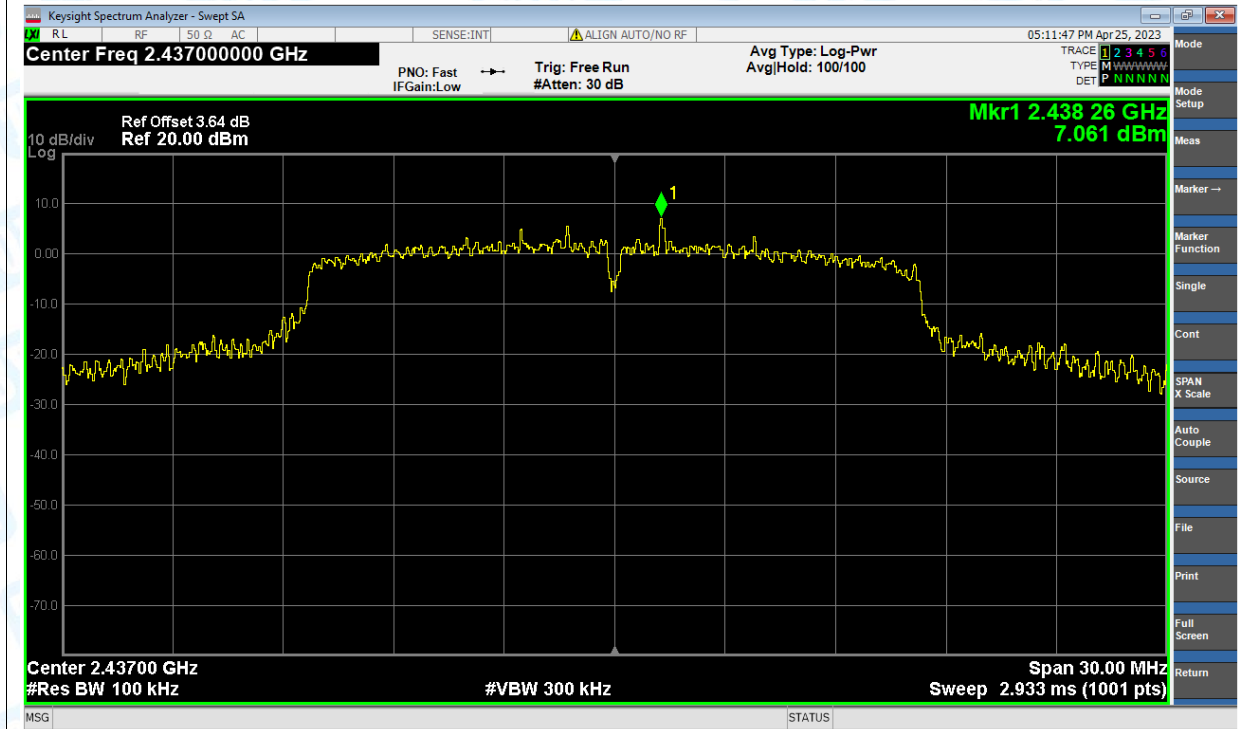
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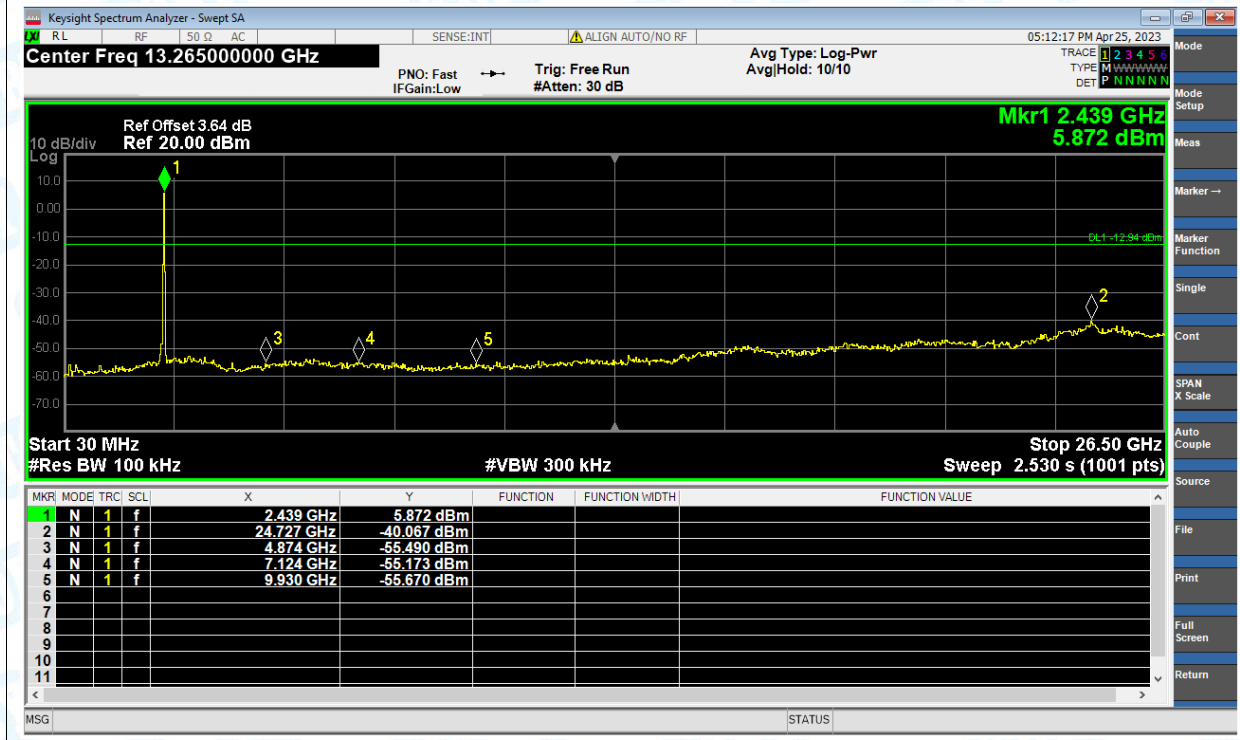
Tx. Spurious NVNT g 2412MHz Ant1 Emission



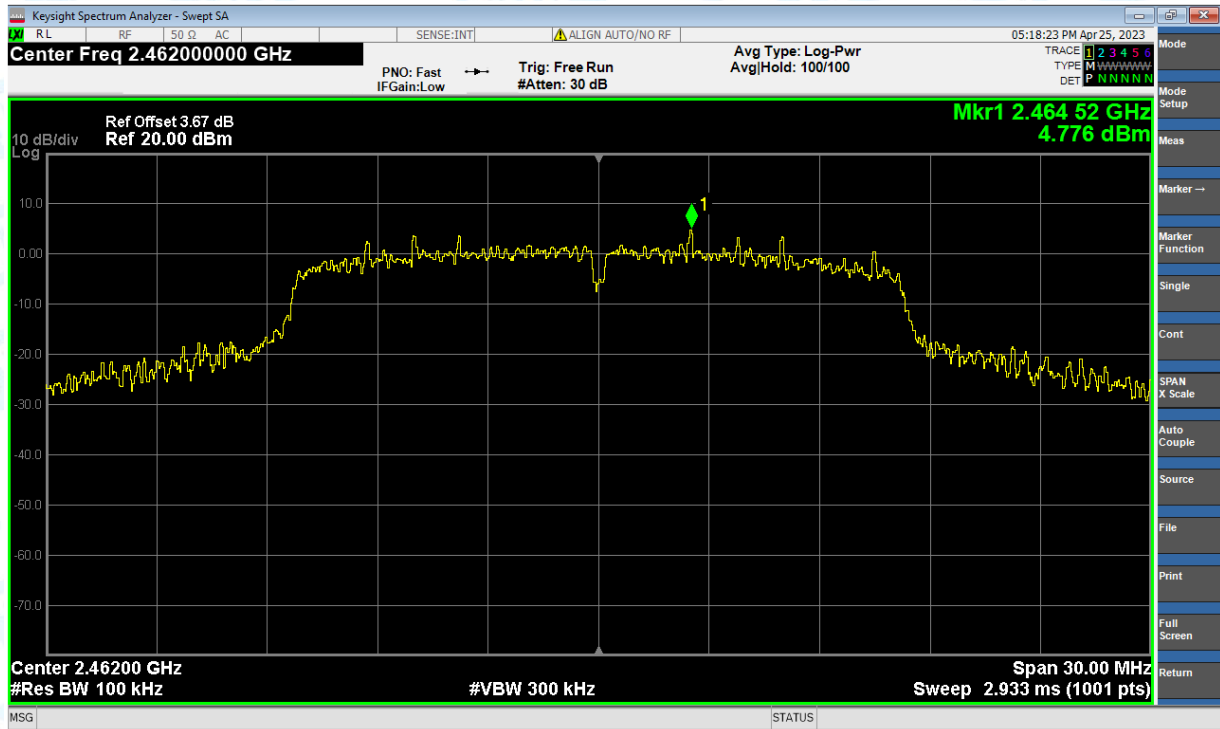
Tx. Spurious NVNT g 2437MHz Ant1 Ref



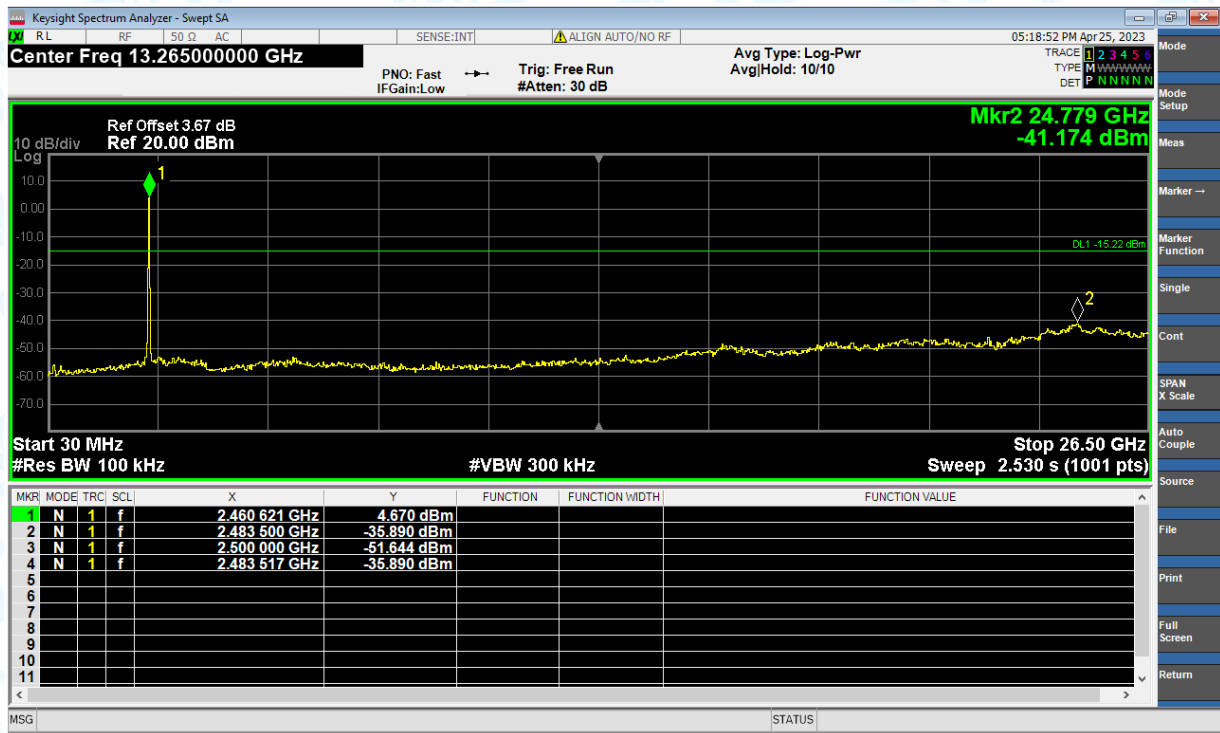
Tx. Spurious NVNT g 2437MHz Ant1 Emission



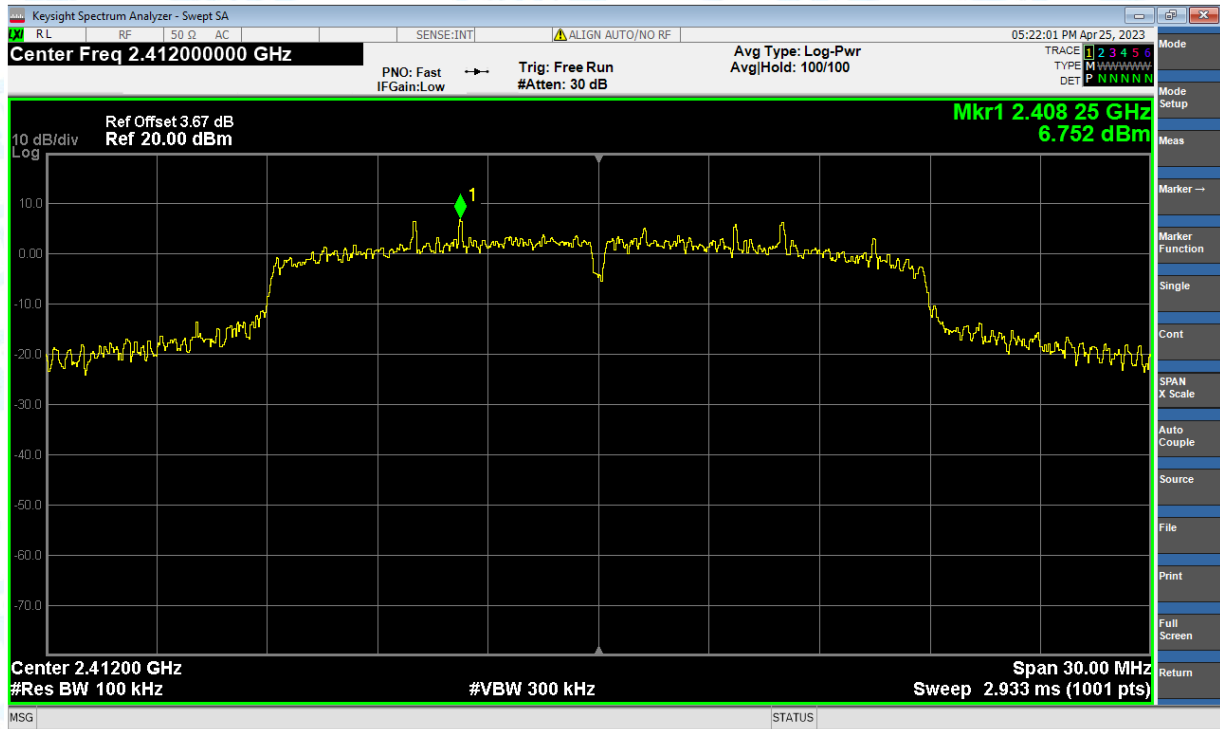
Tx. Spurious NVNT g 2462MHz Ant1 Ref



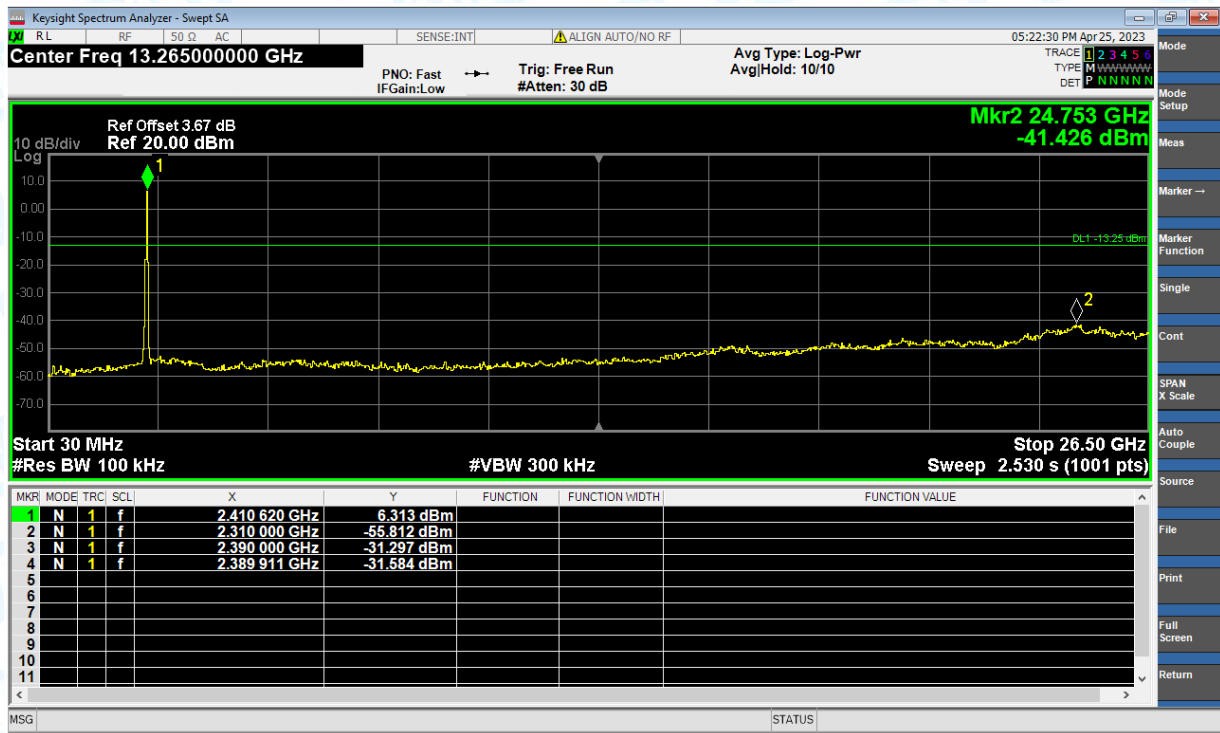
Tx. Spurious NVNT g 2462MHz Ant1 Emission



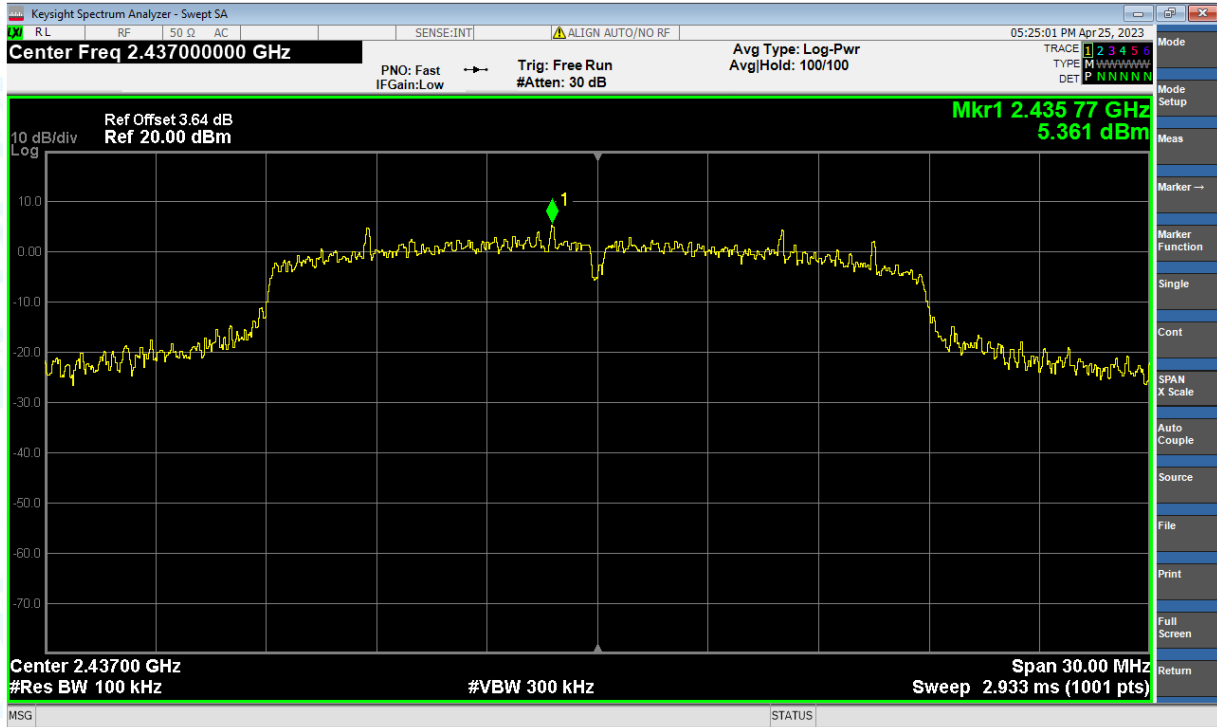
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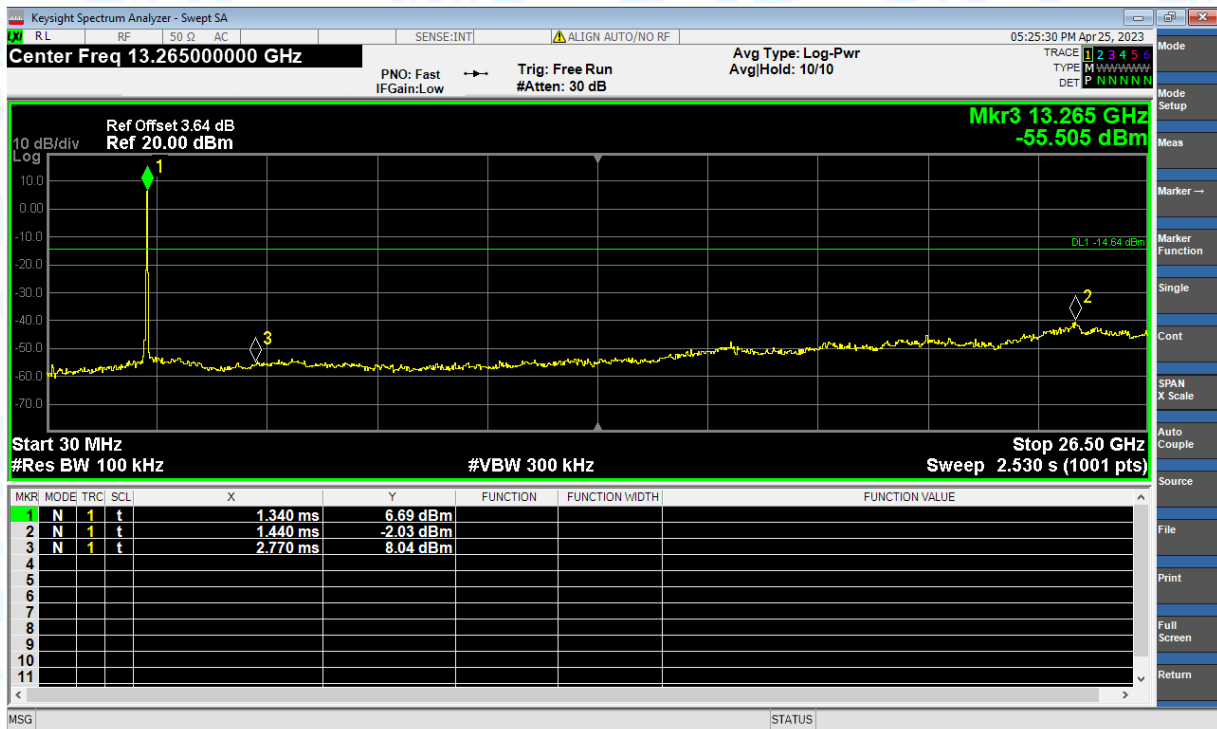
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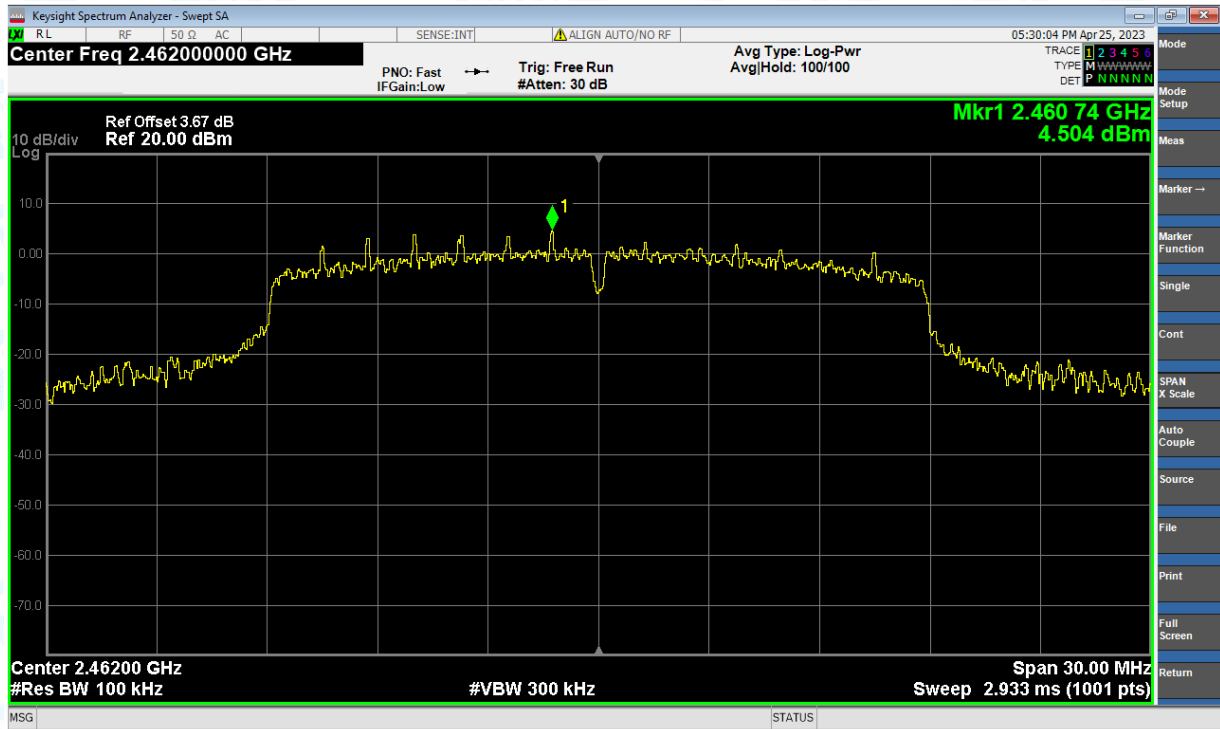
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



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



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



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

