RF Test Data for 2.4G WiFi (Conducted Measurements)

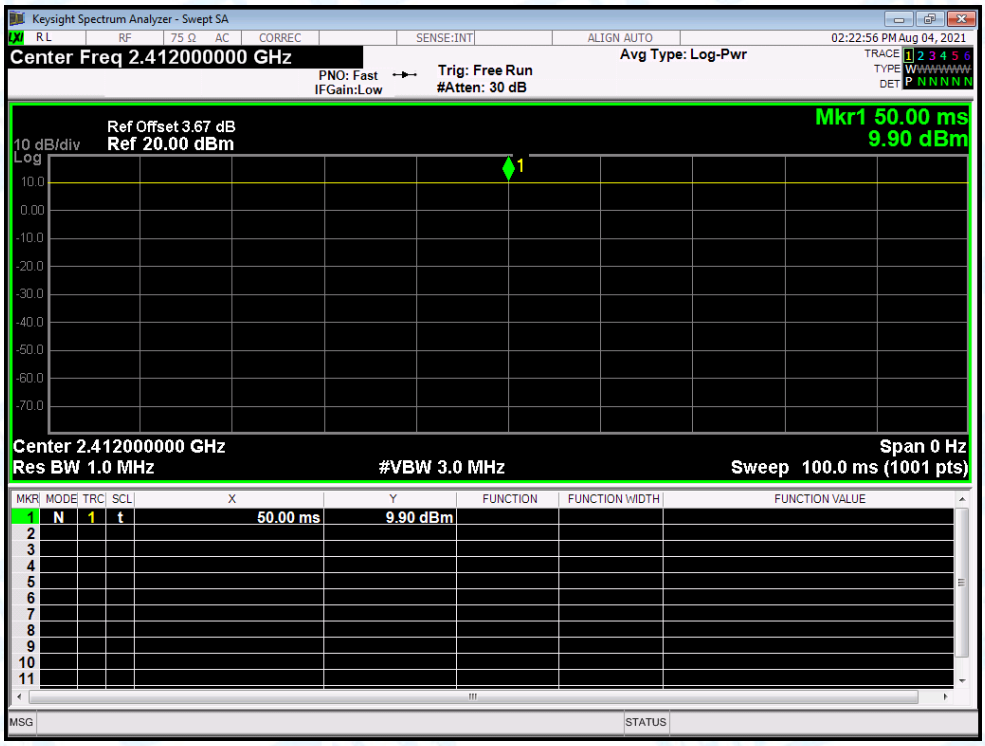
General Description of EUT	
Product Name:	OUTDOOR TV
Test Model:	OT55A0KAGC
Sample ID:	20210407-13-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	HeJingchang
Note: For a more detailed features description, please refer to the report TB-FCC183311.	

1.Duty Cycle

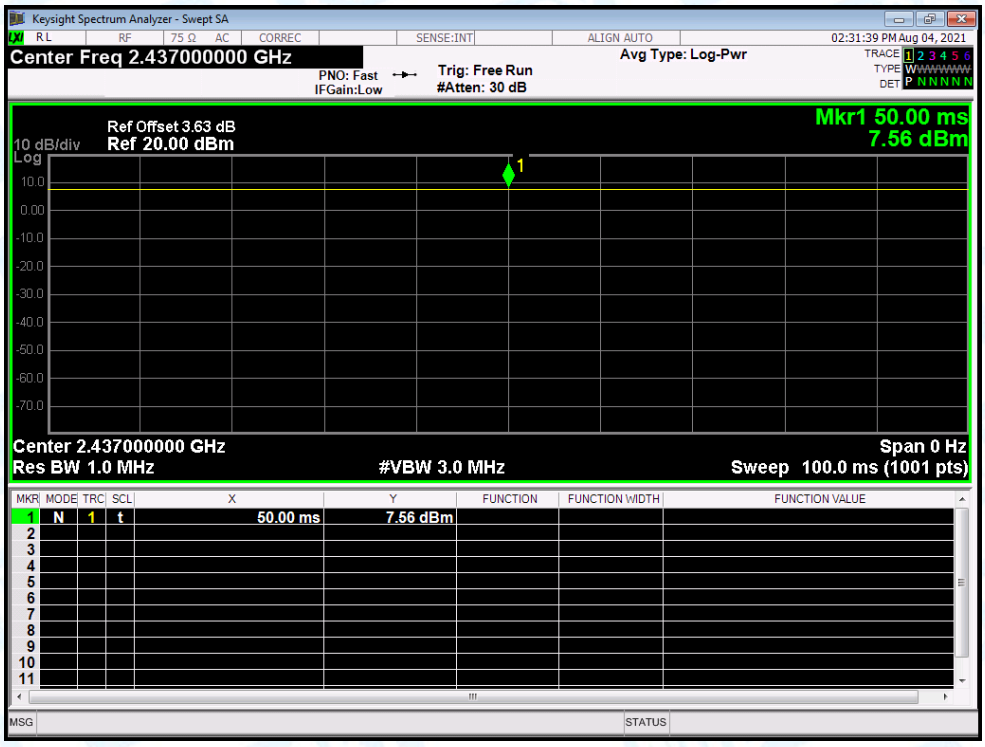
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Sum	100	0	0
NVNT	b	2437	Sum	100	0	0
NVNT	b	2462	Sum	100	0	0
NVNT	g	2412	Sum	100	0	0
NVNT	g	2437	Sum	100	0	0
NVNT	g	2462	Sum	100	0	0
NVNT	n(HT20)	2412	Sum	100	0	0
NVNT	n(HT20)	2437	Sum	100	0	0
NVNT	n(HT20)	2462	Sum	100	0	0
NVNT	n(HT40)	2422	Sum	100	0	0
NVNT	n(HT40)	2437	Sum	100	0	0
NVNT	n(HT40)	2452	Sum	100	0	0

Test Graphs

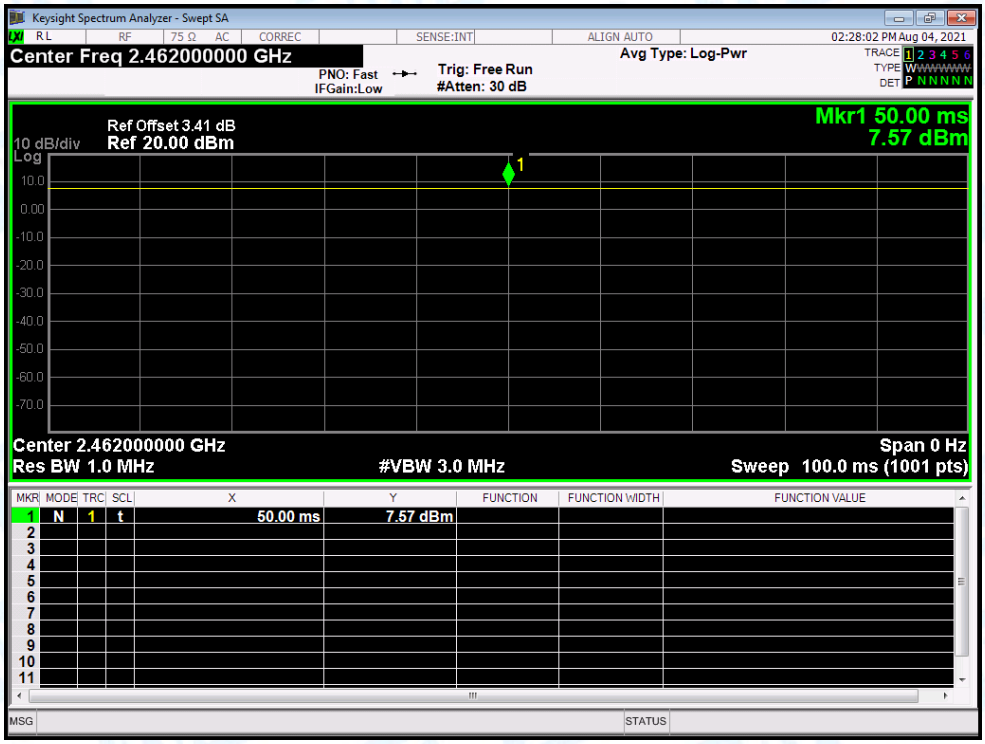
Duty Cycle NVNT b 2412MHz Sum



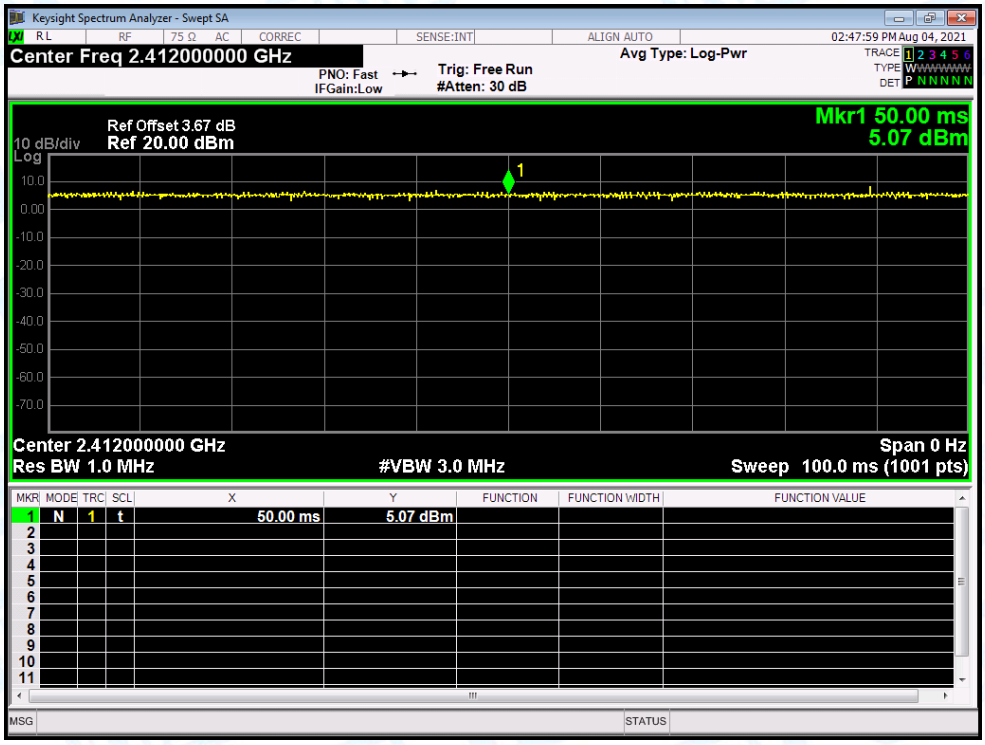
Duty Cycle NVNT b 2437MHz Sum



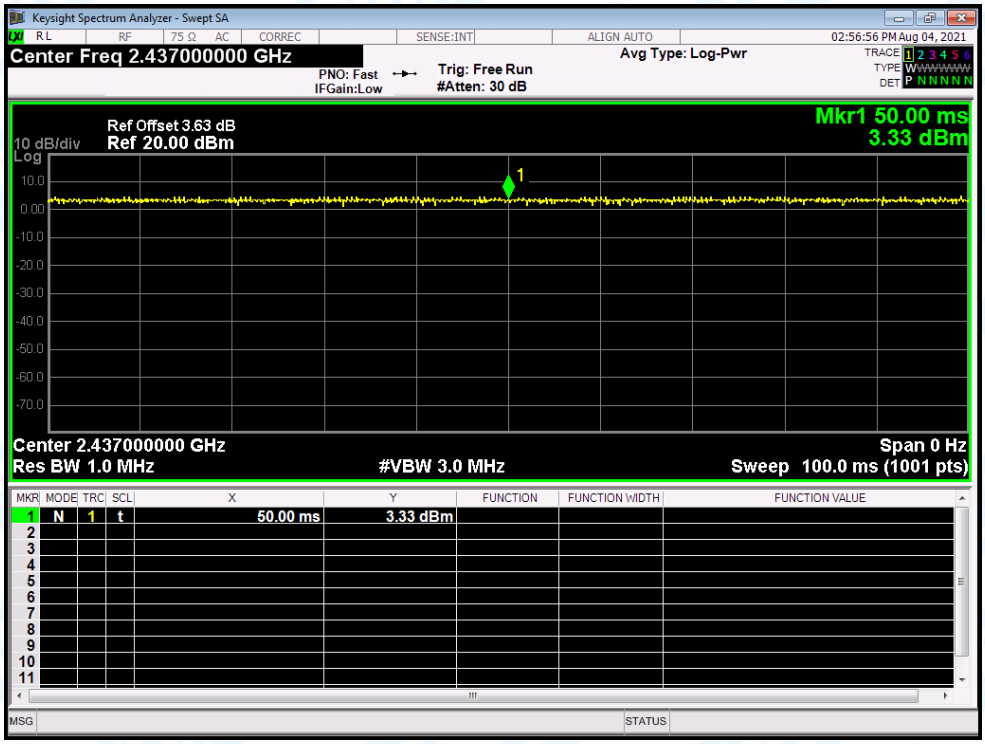
Duty Cycle NVNT b 2462MHz Sum



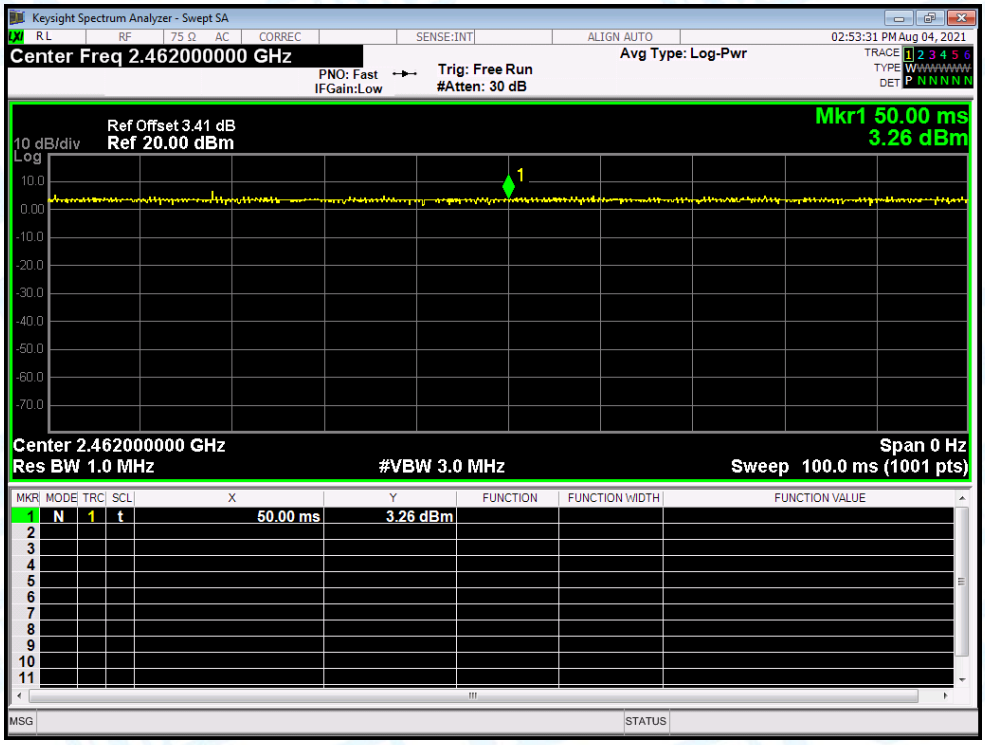
Duty Cycle NVNT g 2412MHz Sum



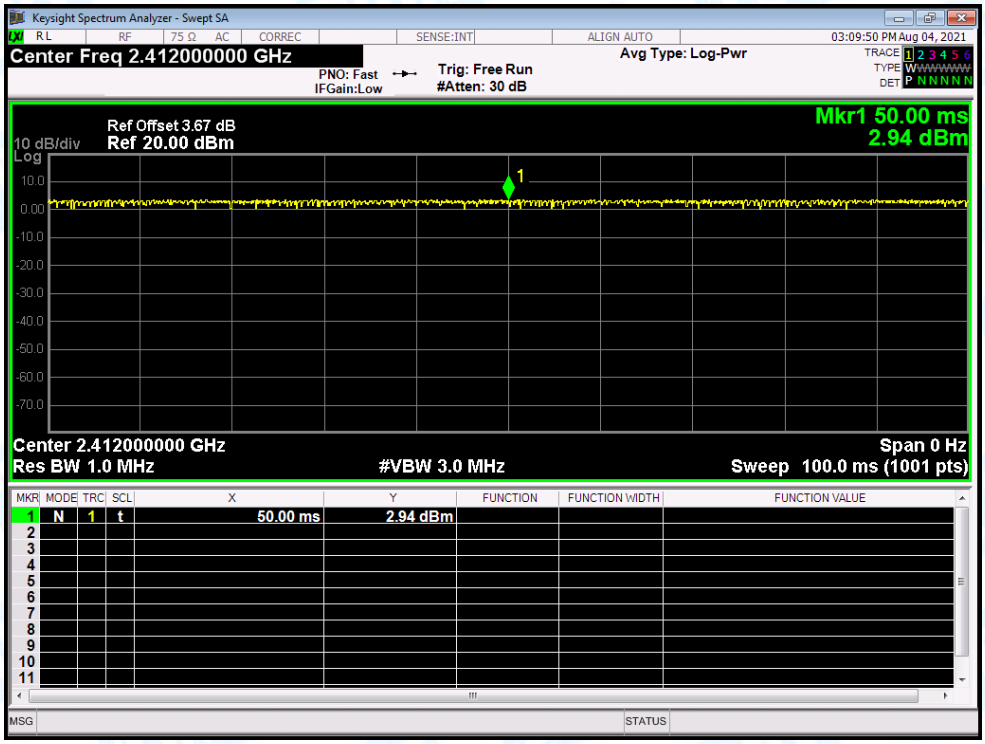
Duty Cycle NVNT g 2437MHz Sum



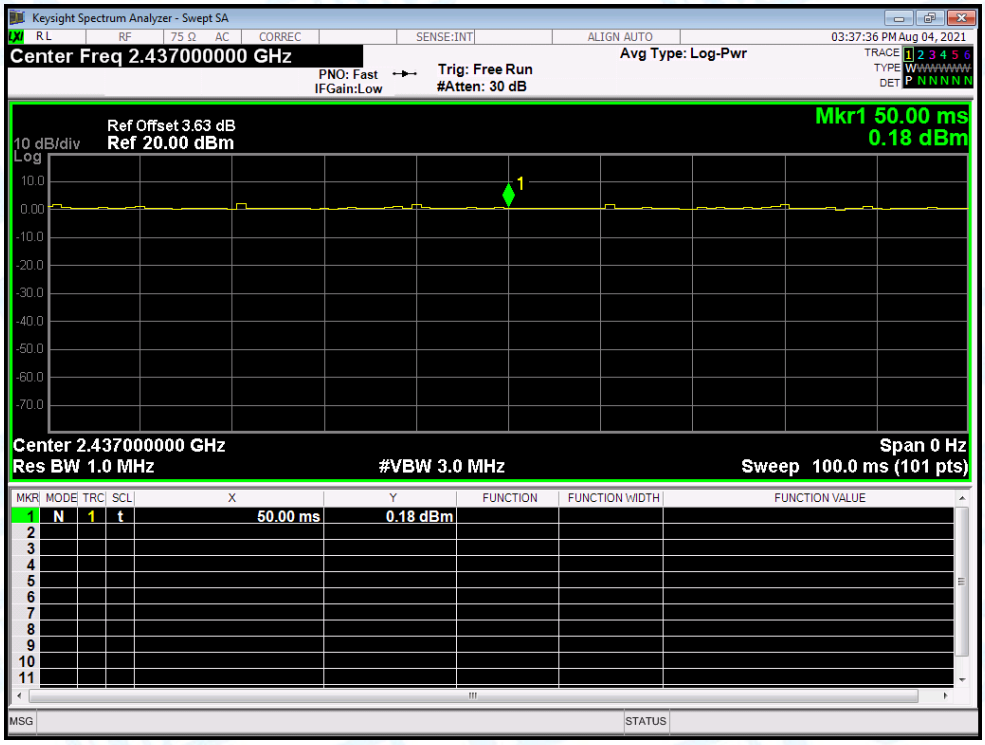
Duty Cycle NVNT g 2462MHz Sum



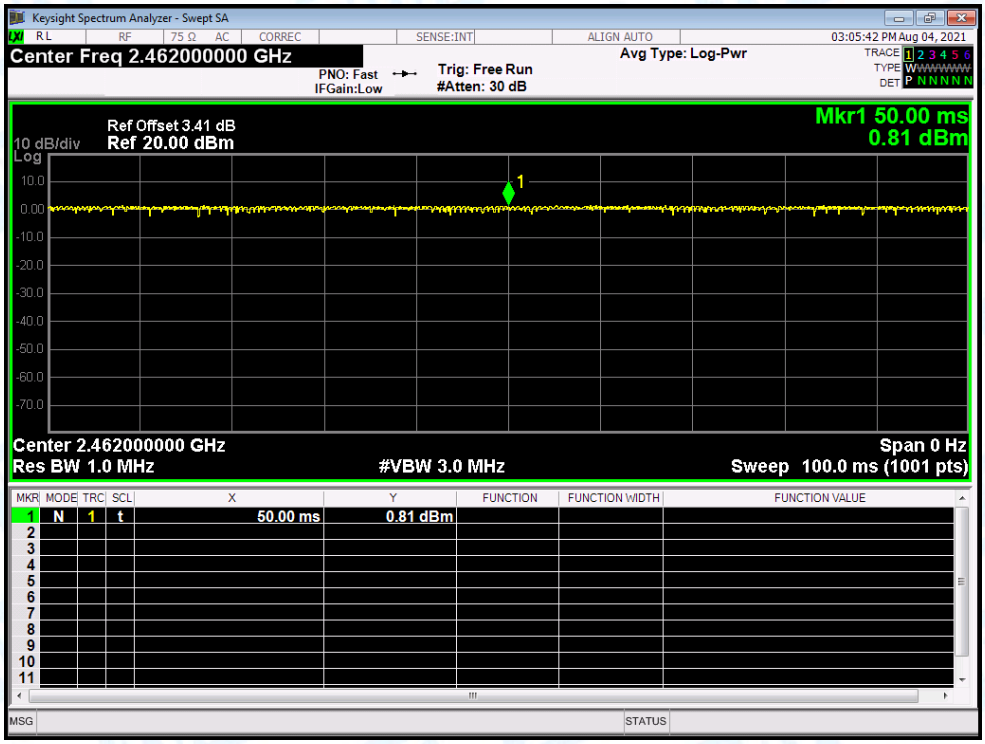
Duty Cycle NVNT n(HT20) 2412MHz Sum



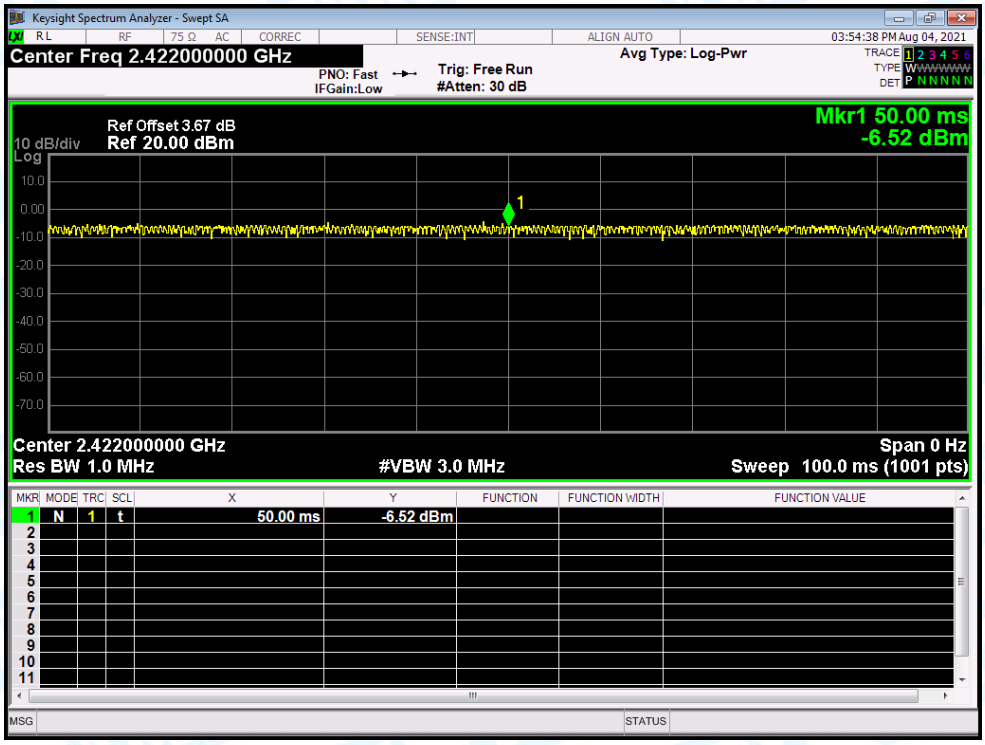
Duty Cycle NVNT n(HT20) 2437MHz Sum



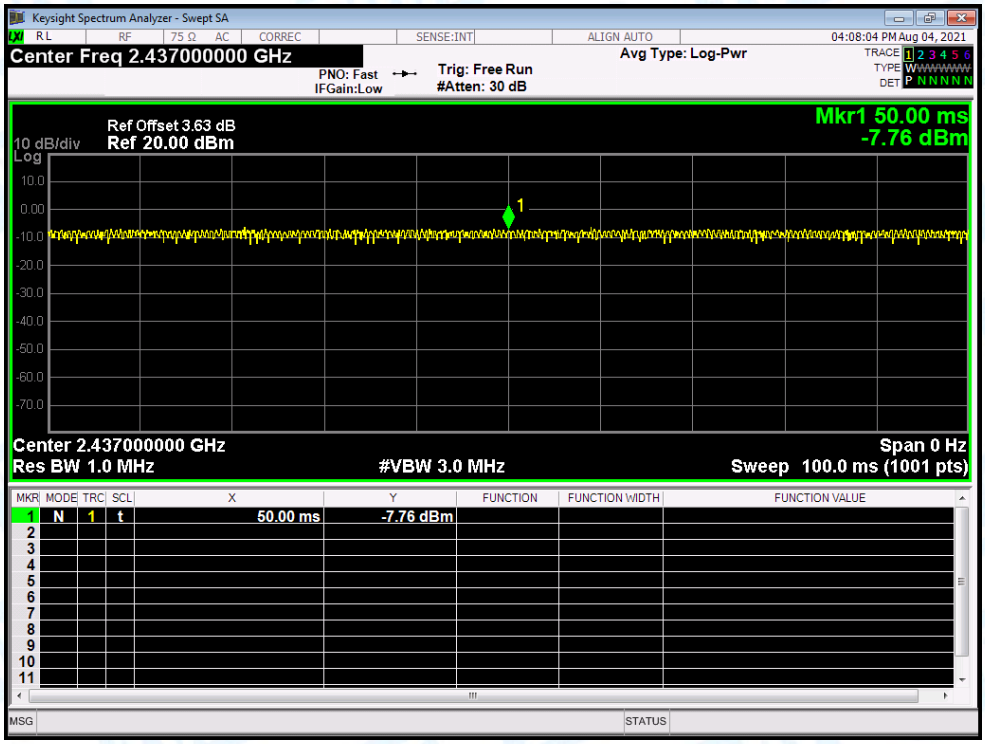
Duty Cycle NVNT n(HT20) 2462MHz Sum



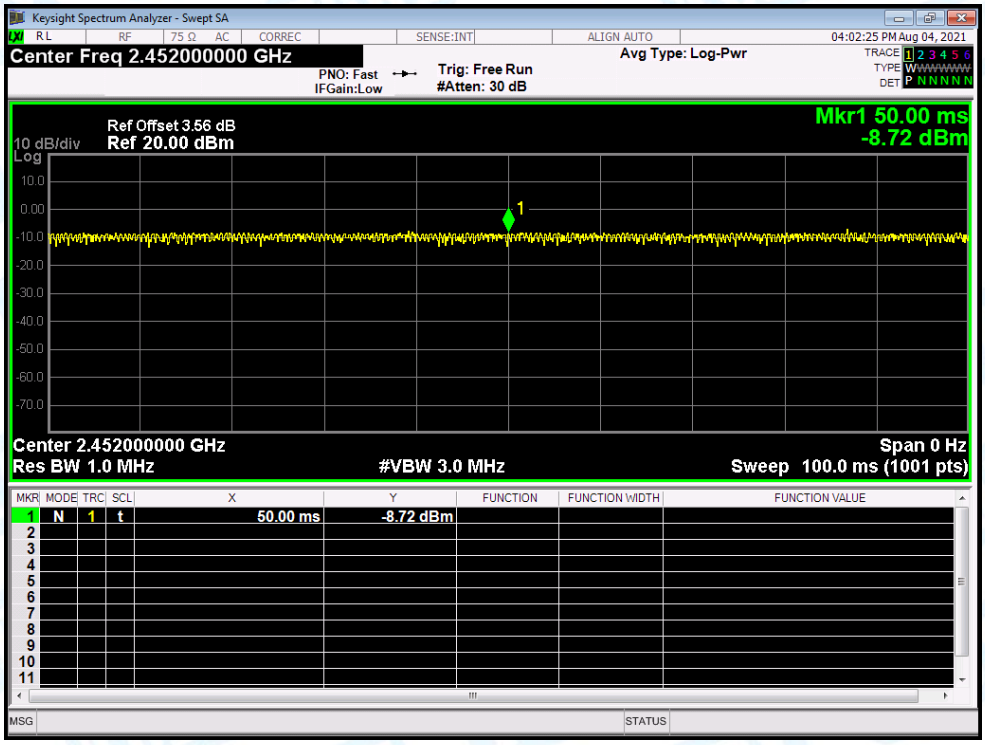
Duty Cycle NVNT n(HT40) 2422MHz Sum



Duty Cycle NVNT n(HT40) 2437MHz Sum



Duty Cycle NVNT n(HT40) 2452MHz Sum



2.Maximum Conducted Output Power

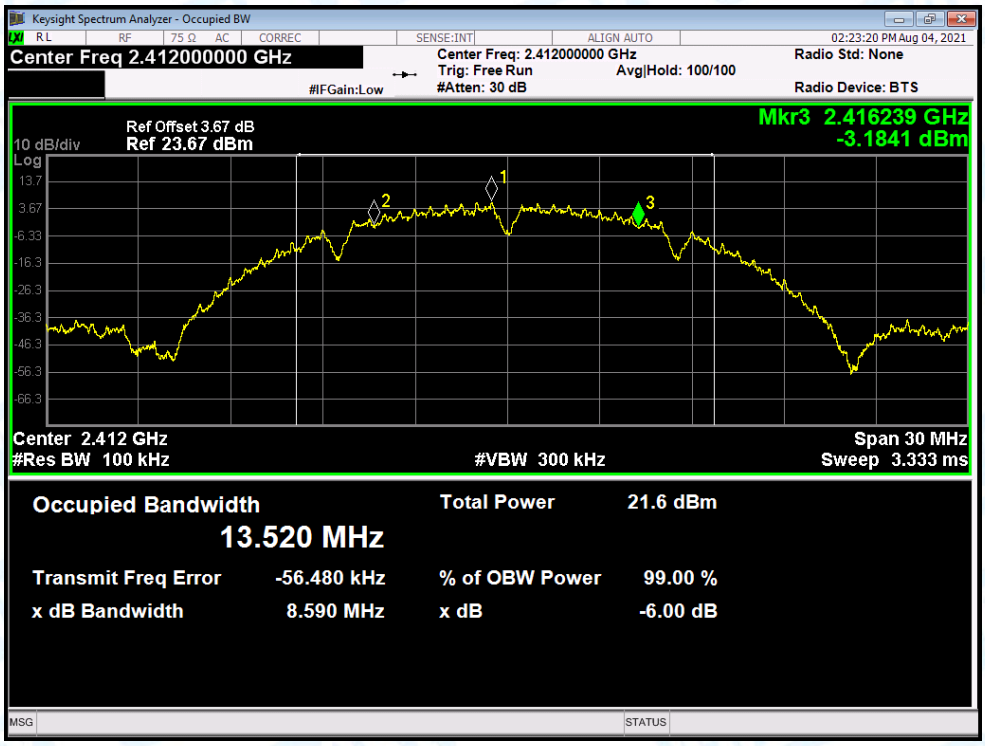
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	7.872	30	Pass
NVNT	b	2412	Ant2	9.728	30	Pass
NVNT	b	2437	Ant1	5.048	30	Pass
NVNT	b	2437	Ant2	9.448	30	Pass
NVNT	b	2462	Ant1	6.022	30	Pass
NVNT	b	2462	Ant2	9.357	30	Pass
NVNT	g	2412	Ant1	14.159	30	Pass
NVNT	g	2412	Ant2	15.652	30	Pass
NVNT	g	2437	Ant1	12.599	30	Pass
NVNT	g	2437	Ant2	15.412	30	Pass
NVNT	g	2462	Ant1	12.389	30	Pass
NVNT	g	2462	Ant2	15.577	30	Pass
NVNT	n(HT20)	2412	Ant1	12.095	30	Pass
NVNT	n(HT20)	2412	Ant2	13.16	30	Pass
NVNT	n(HT20)	2412	Sum	15.67	30	Pass
NVNT	n(HT20)	2437	Ant1	9.01	30	Pass
NVNT	n(HT20)	2437	Ant2	12.428	30	Pass
NVNT	n(HT20)	2437	Sum	14.057	30	Pass
NVNT	n(HT20)	2462	Ant1	10.223	30	Pass
NVNT	n(HT20)	2462	Ant2	13.143	30	Pass
NVNT	n(HT20)	2462	Sum	14.934	30	Pass
NVNT	n(HT40)	2422	Ant1	8.482	30	Pass
NVNT	n(HT40)	2422	Ant2	10.261	30	Pass
NVNT	n(HT40)	2422	Sum	12.472	30	Pass
NVNT	n(HT40)	2437	Ant1	6.856	30	Pass
NVNT	n(HT40)	2437	Ant2	9.744	30	Pass
NVNT	n(HT40)	2437	Sum	11.546	30	Pass
NVNT	n(HT40)	2452	Ant1	6.098	30	Pass
NVNT	n(HT40)	2452	Ant2	9.854	30	Pass
NVNT	n(HT40)	2452	Sum	11.38	30	Pass

3.-6dB Bandwidth

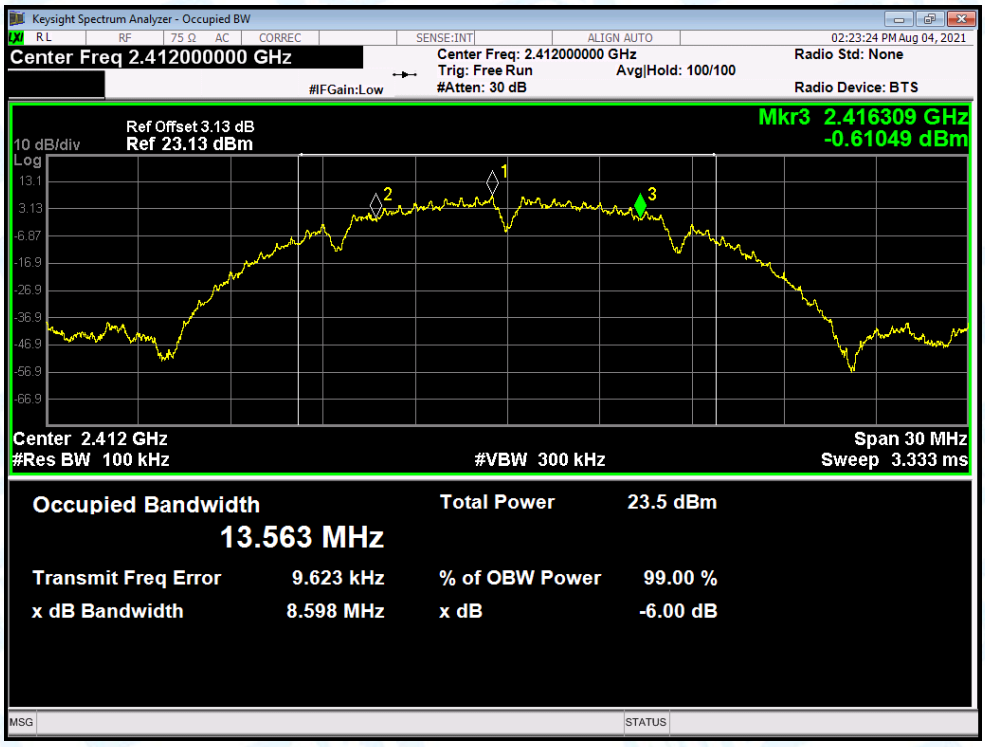
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.59	0.5	Pass
NVNT	b	2412	Ant2	8.598	0.5	Pass
NVNT	b	2437	Ant1	9.073	0.5	Pass
NVNT	b	2437	Ant2	9.081	0.5	Pass
NVNT	b	2462	Ant1	9.025	0.5	Pass
NVNT	b	2462	Ant2	9.005	0.5	Pass
NVNT	g	2412	Ant1	15.259	0.5	Pass
NVNT	g	2412	Ant2	14.394	0.5	Pass
NVNT	g	2437	Ant1	14.986	0.5	Pass
NVNT	g	2437	Ant2	15.13	0.5	Pass
NVNT	g	2462	Ant1	13.806	0.5	Pass
NVNT	g	2462	Ant2	12.902	0.5	Pass
NVNT	n(HT20)	2412	Ant1	15.073	0.5	Pass
NVNT	n(HT20)	2412	Ant2	15.037	0.5	Pass
NVNT	n(HT20)	2437	Ant1	15.704	0.5	Pass
NVNT	n(HT20)	2437	Ant2	15.991	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.7	0.5	Pass
NVNT	n(HT20)	2462	Ant2	15.126	0.5	Pass
NVNT	n(HT40)	2422	Ant1	34.661	0.5	Pass
NVNT	n(HT40)	2422	Ant2	35.048	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.022	0.5	Pass
NVNT	n(HT40)	2437	Ant2	35.103	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.113	0.5	Pass
NVNT	n(HT40)	2452	Ant2	35.073	0.5	Pass

Test Graphs

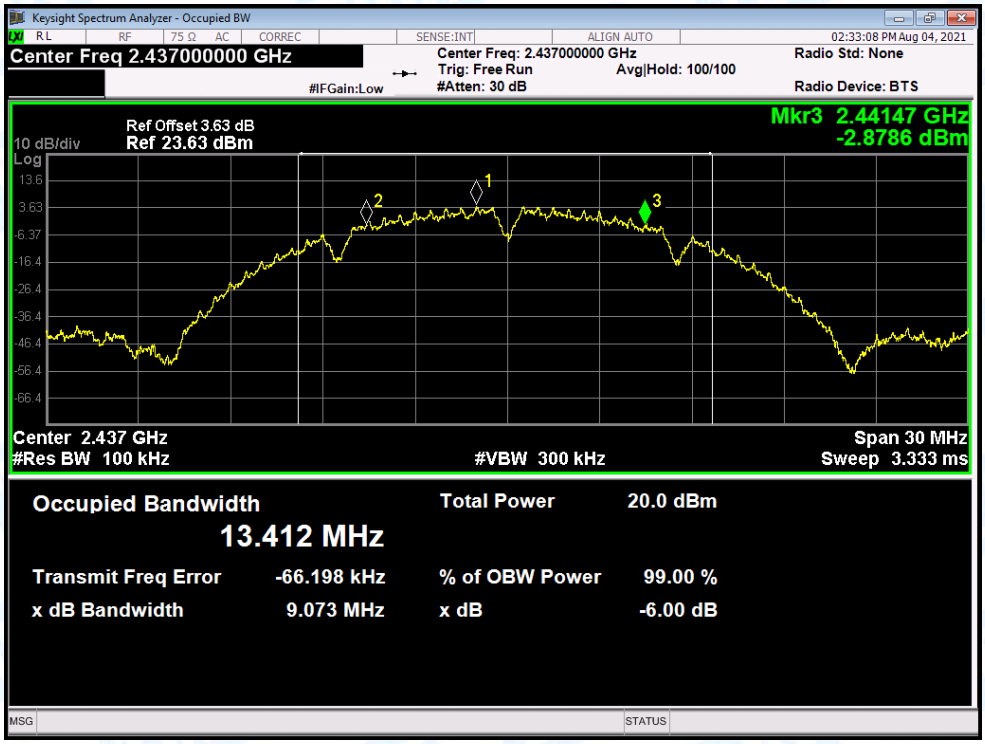
-6dB Bandwidth NVNT b 2412MHz Ant1



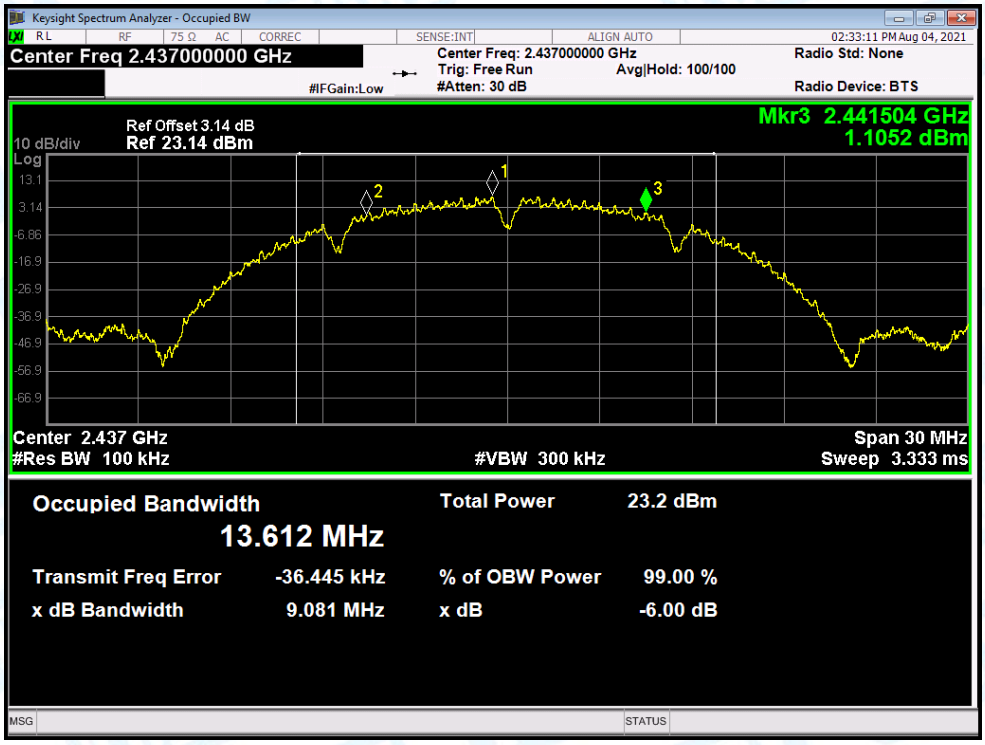
-6dB Bandwidth NVNT b 2412MHz Ant2



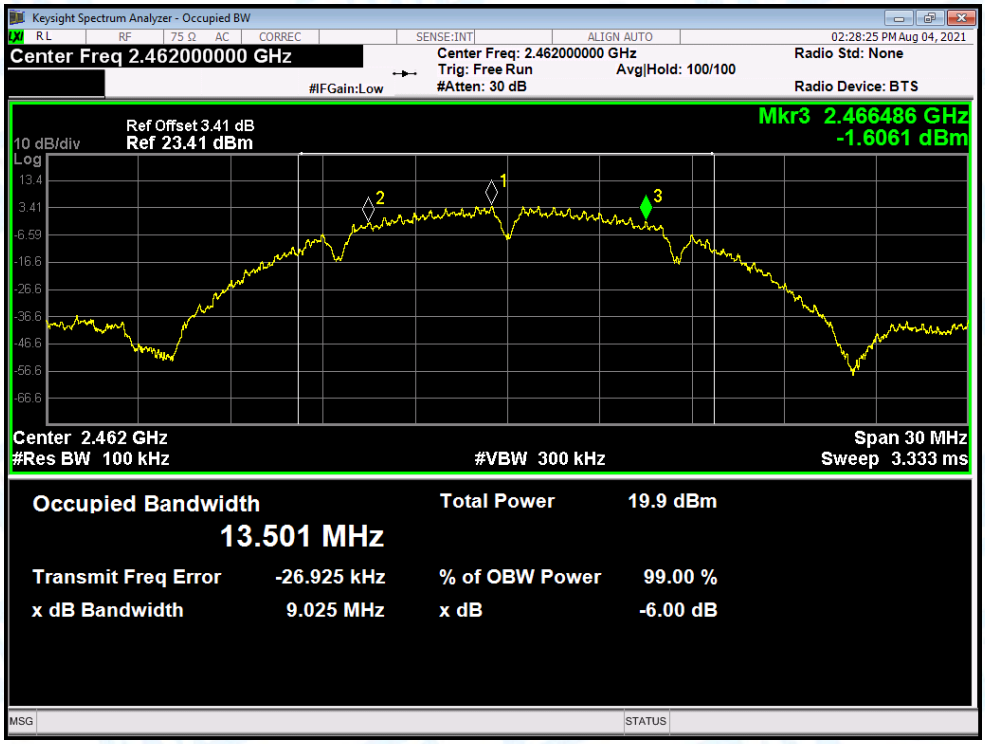
-6dB Bandwidth NVNT b 2437MHz Ant1



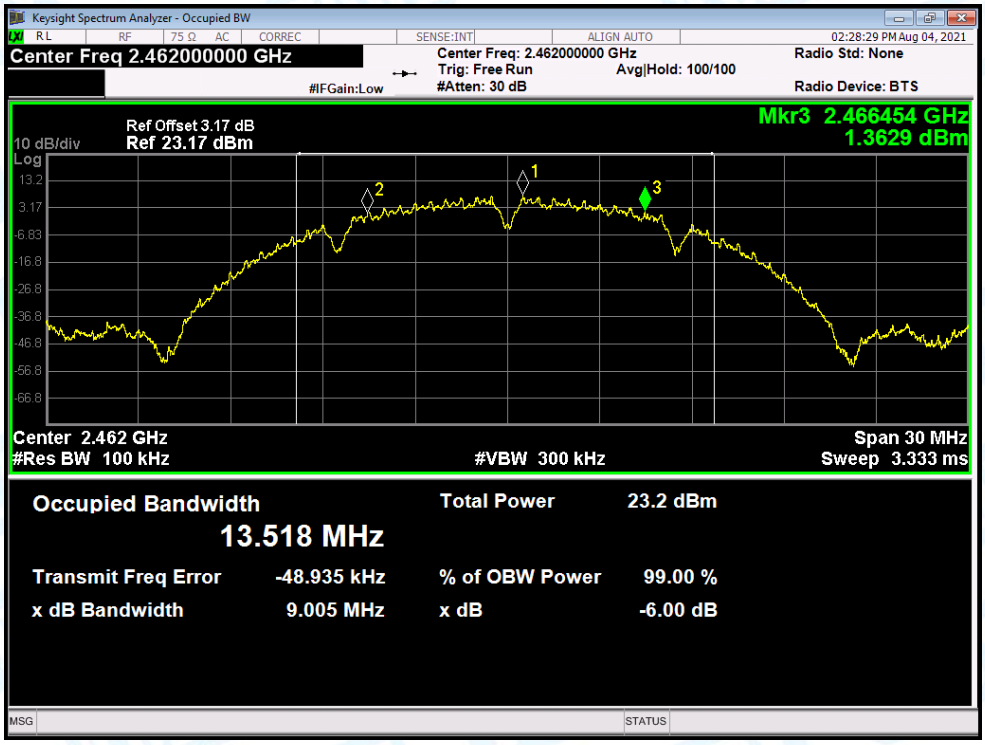
-6dB Bandwidth NVNT b 2437MHz Ant2



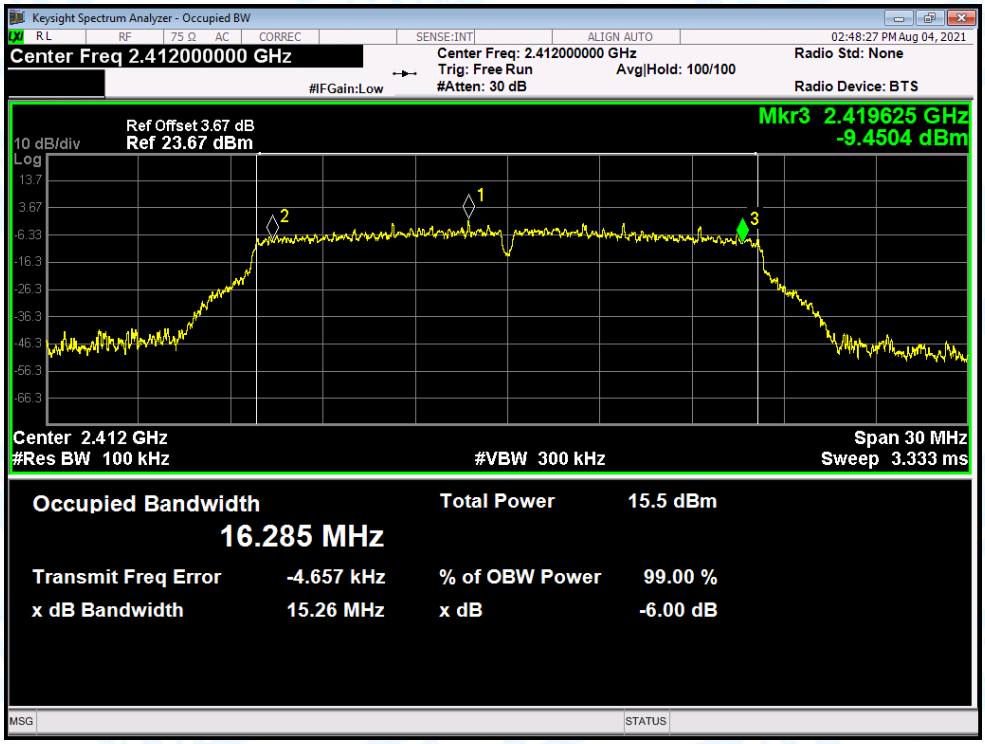
-6dB Bandwidth NVNT b 2462MHz Ant1



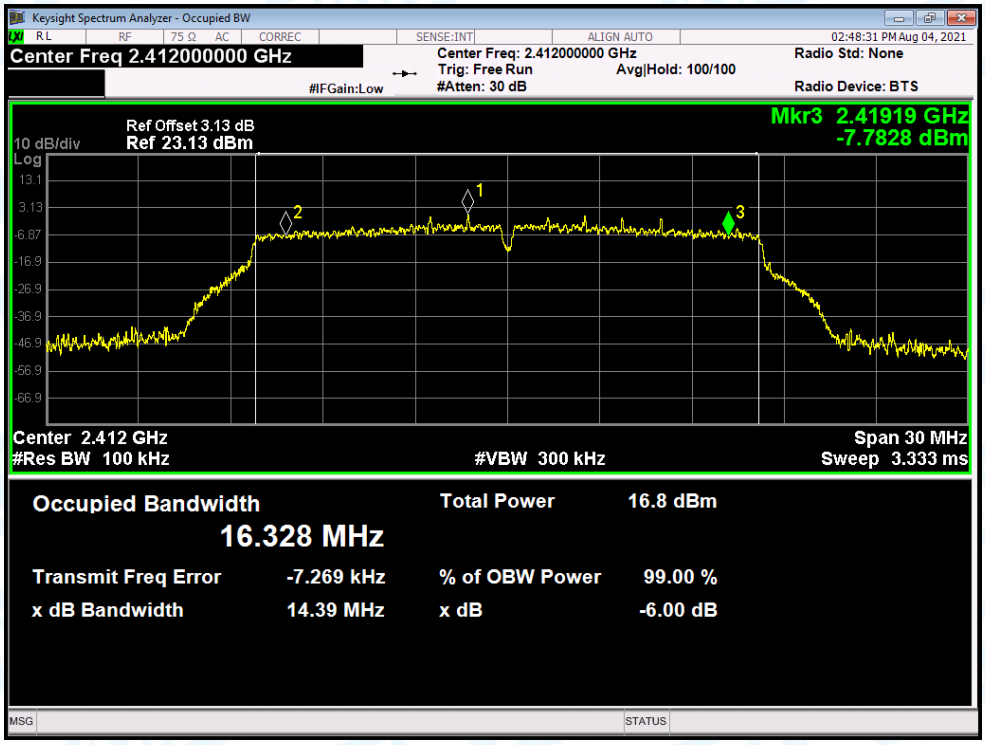
-6dB Bandwidth NVNT b 2462MHz Ant2



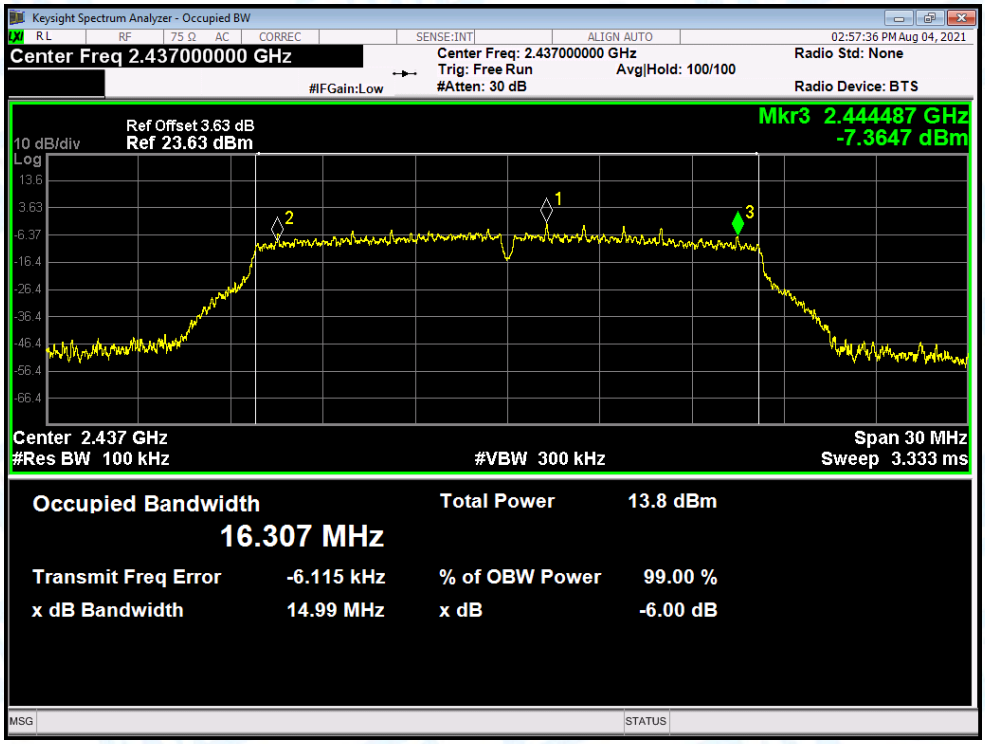
-6dB Bandwidth NVNT g 2412MHz Ant1



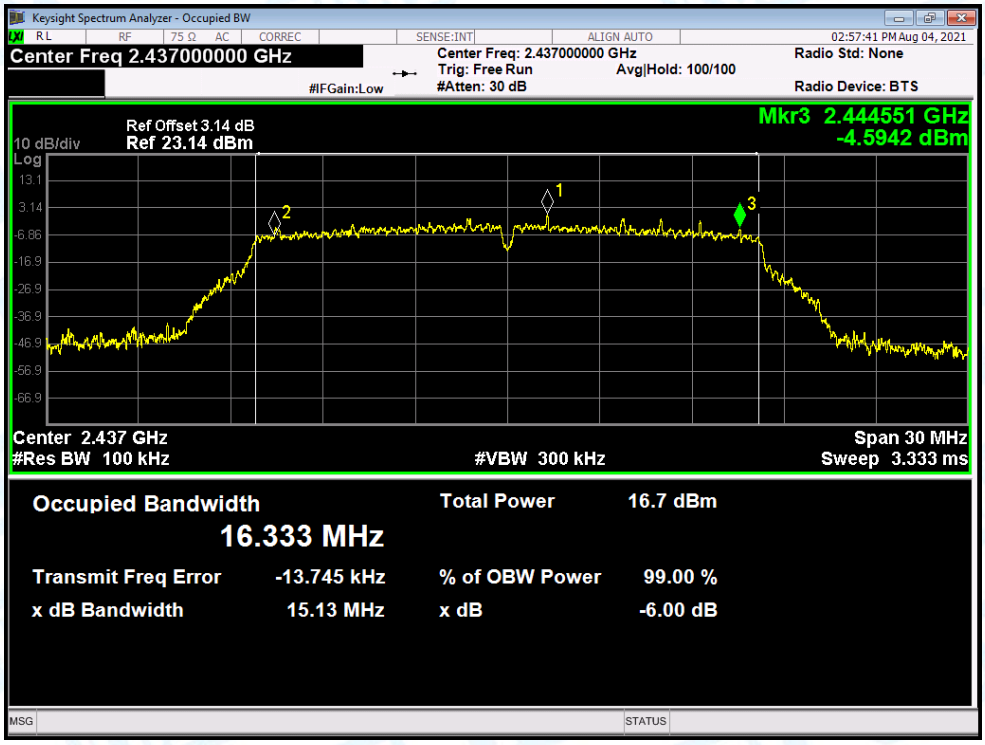
-6dB Bandwidth NVNT g 2412MHz Ant2



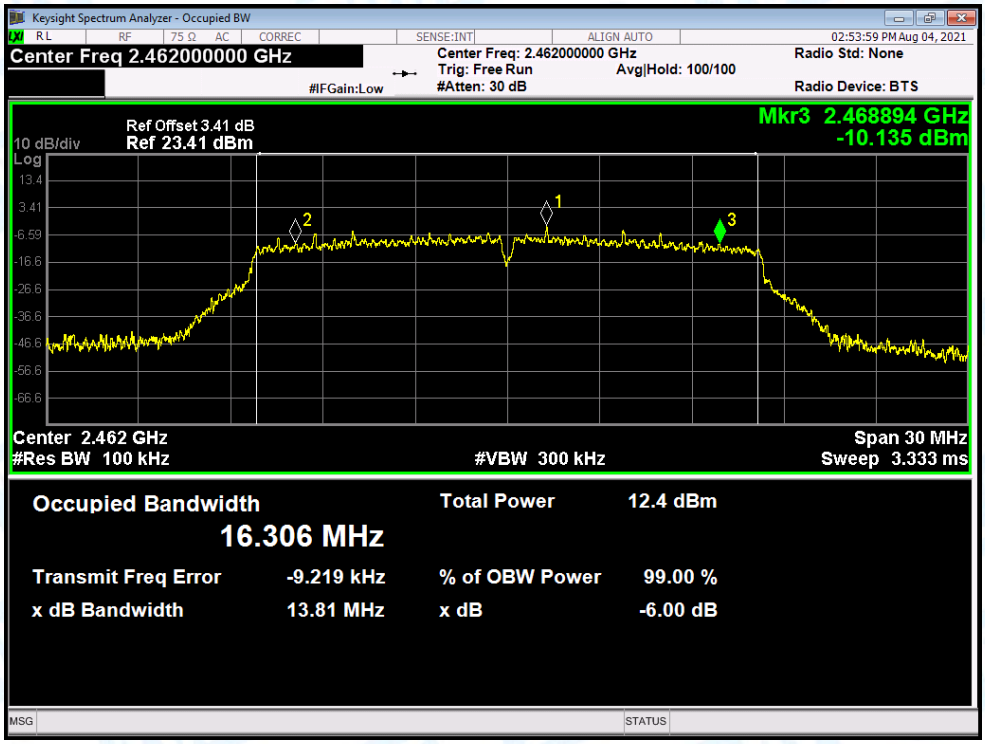
-6dB Bandwidth NVNT g 2437MHz Ant1



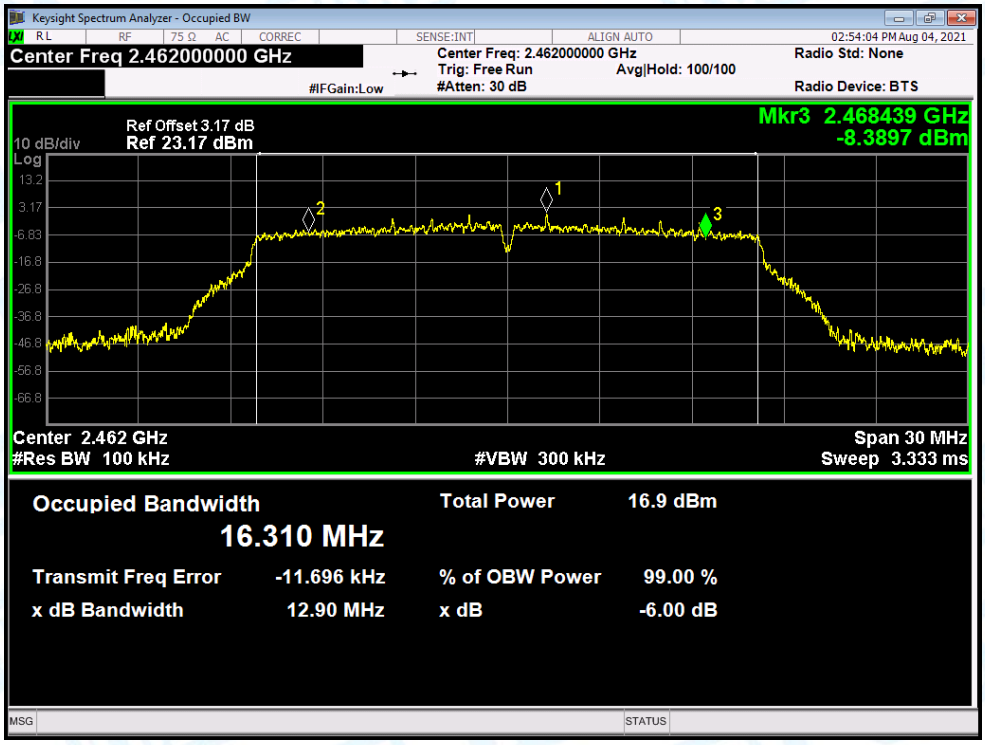
-6dB Bandwidth NVNT g 2437MHz Ant2



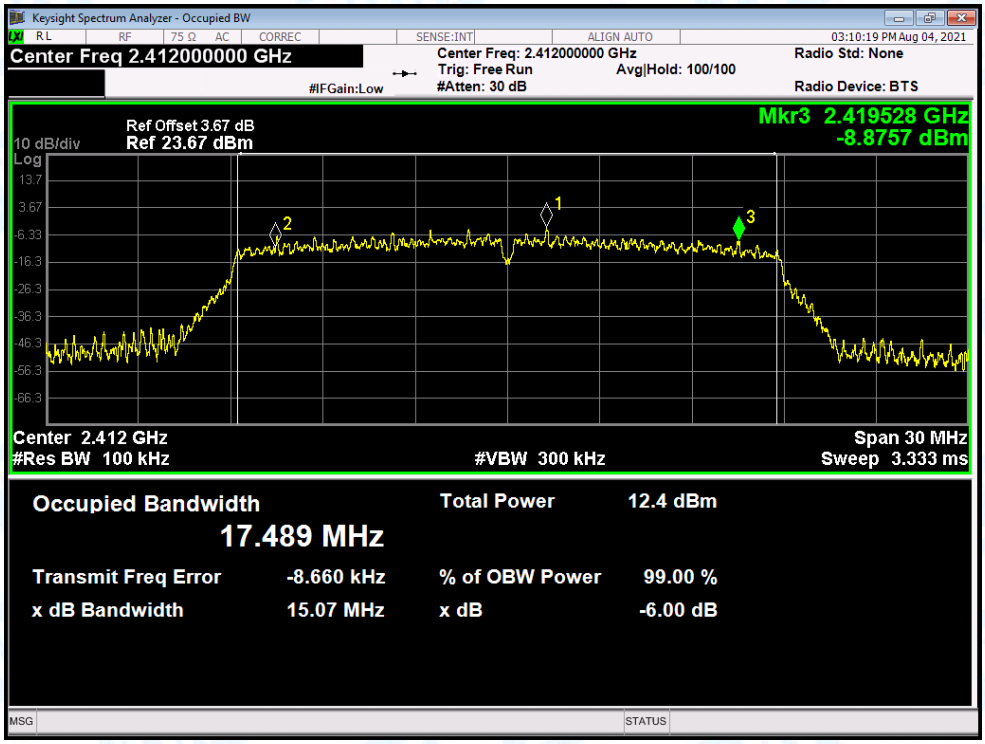
-6dB Bandwidth NVNT g 2462MHz Ant1



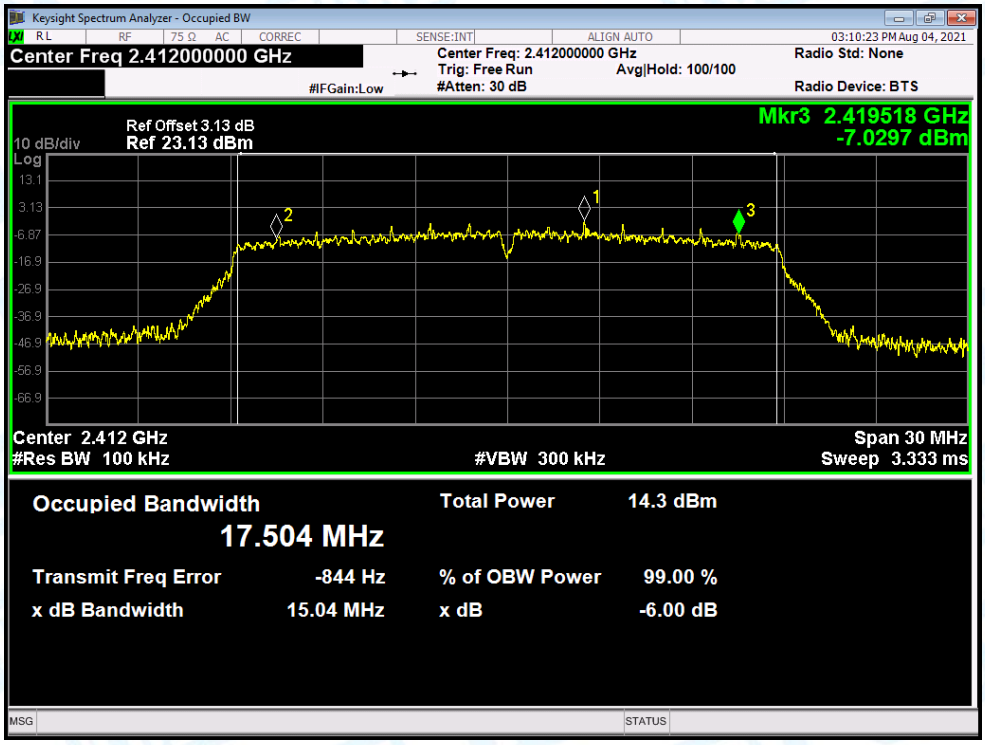
-6dB Bandwidth NVNT g 2462MHz Ant2



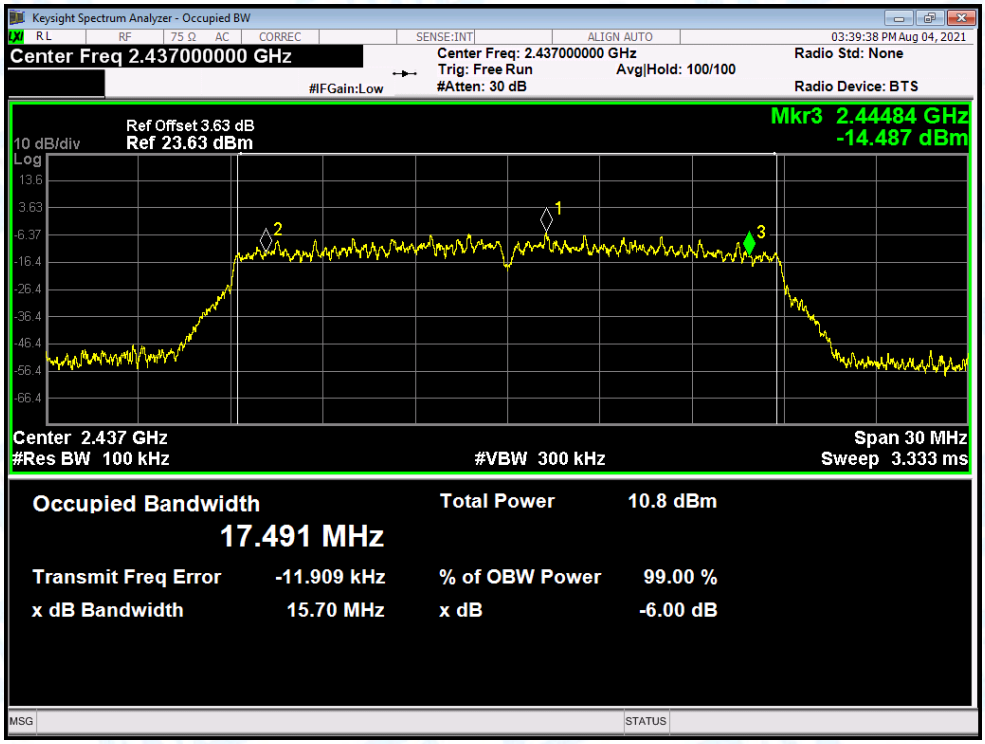
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



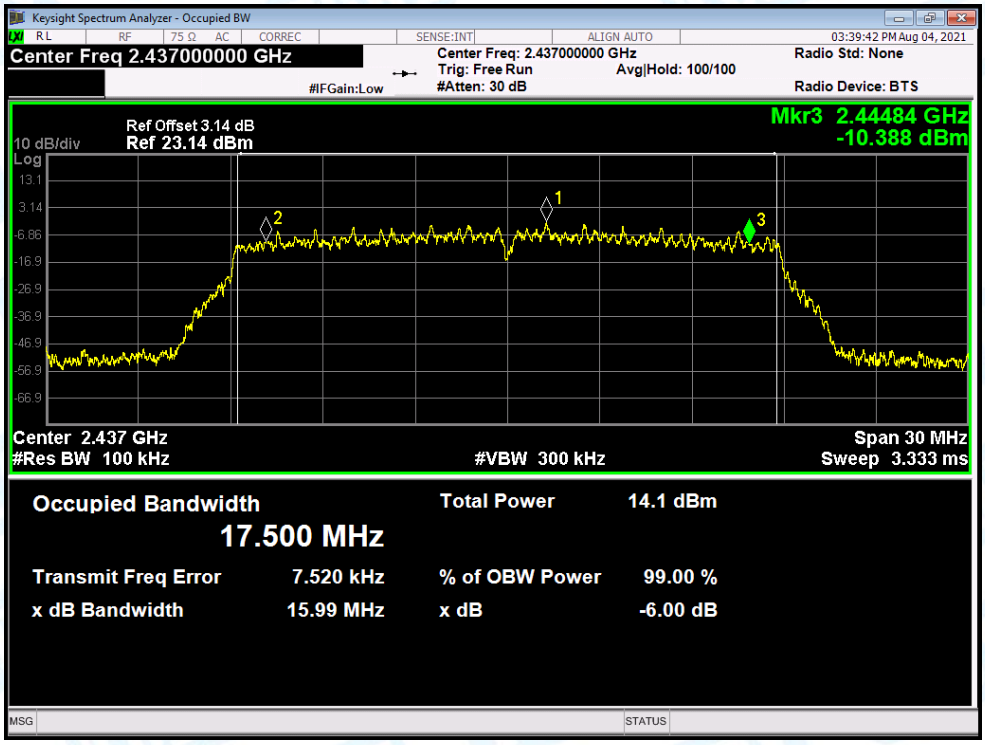
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant2



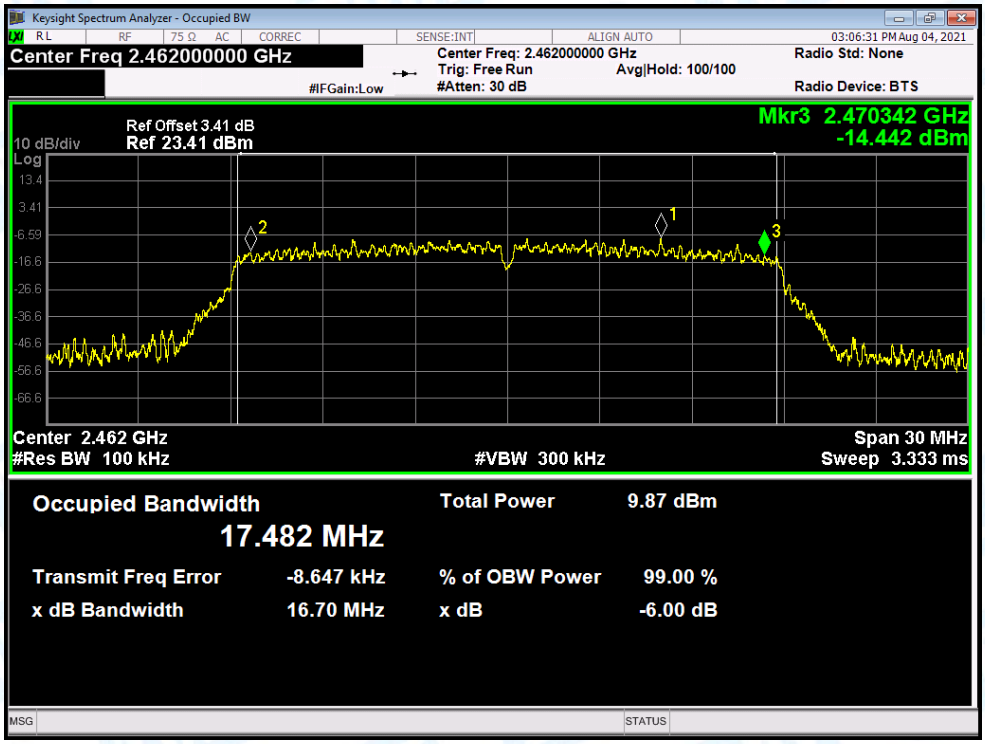
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



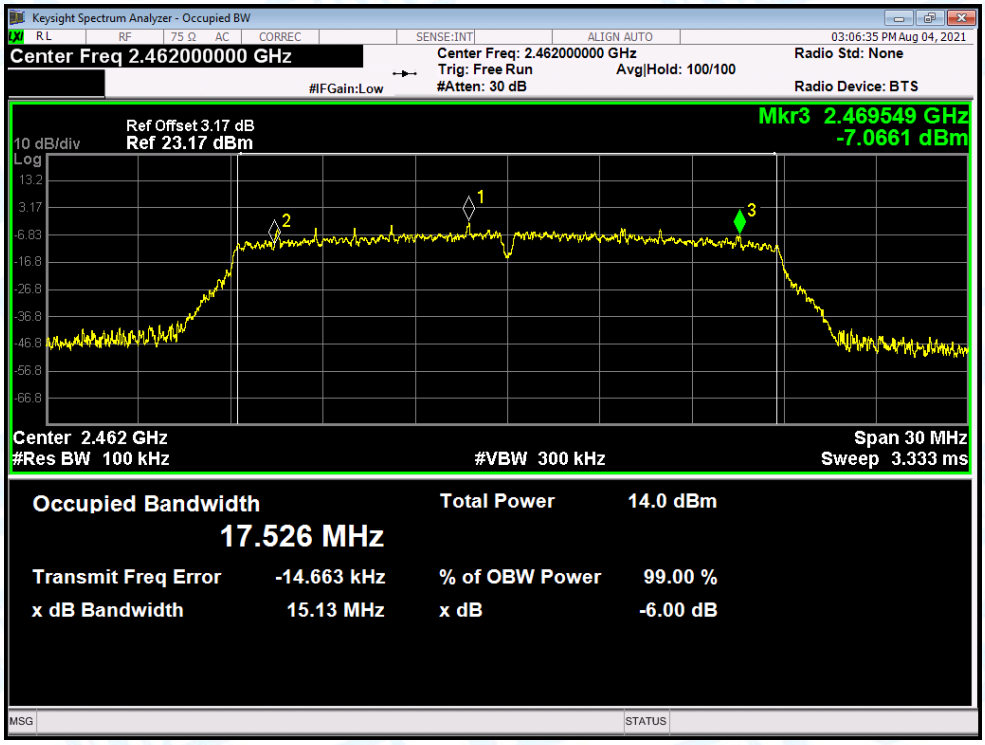
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant2



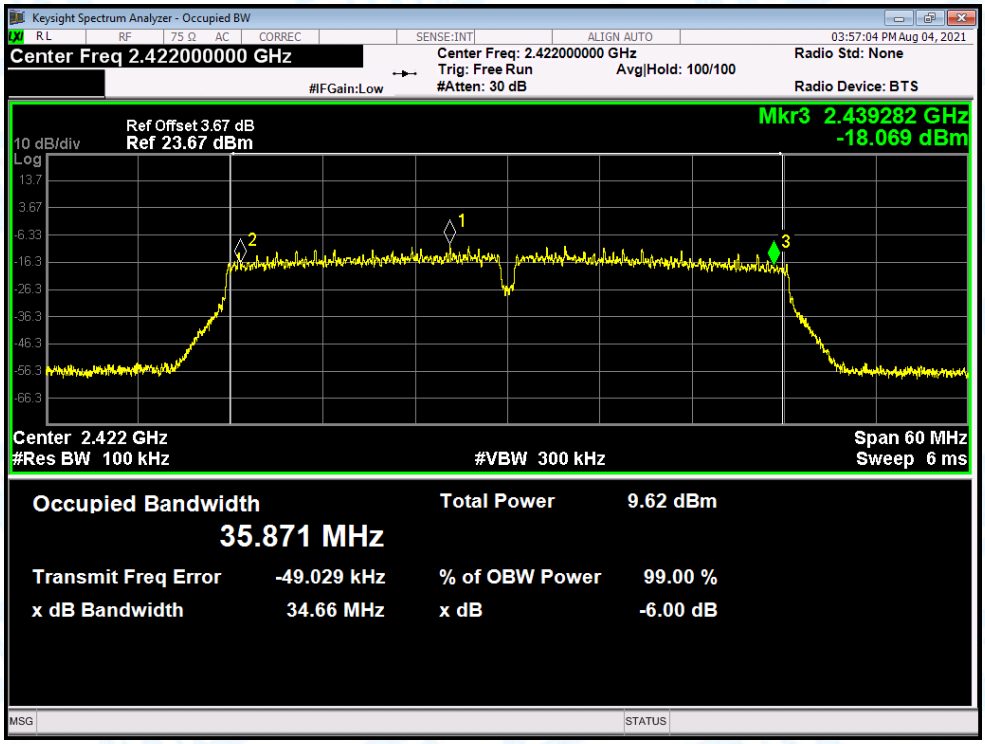
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



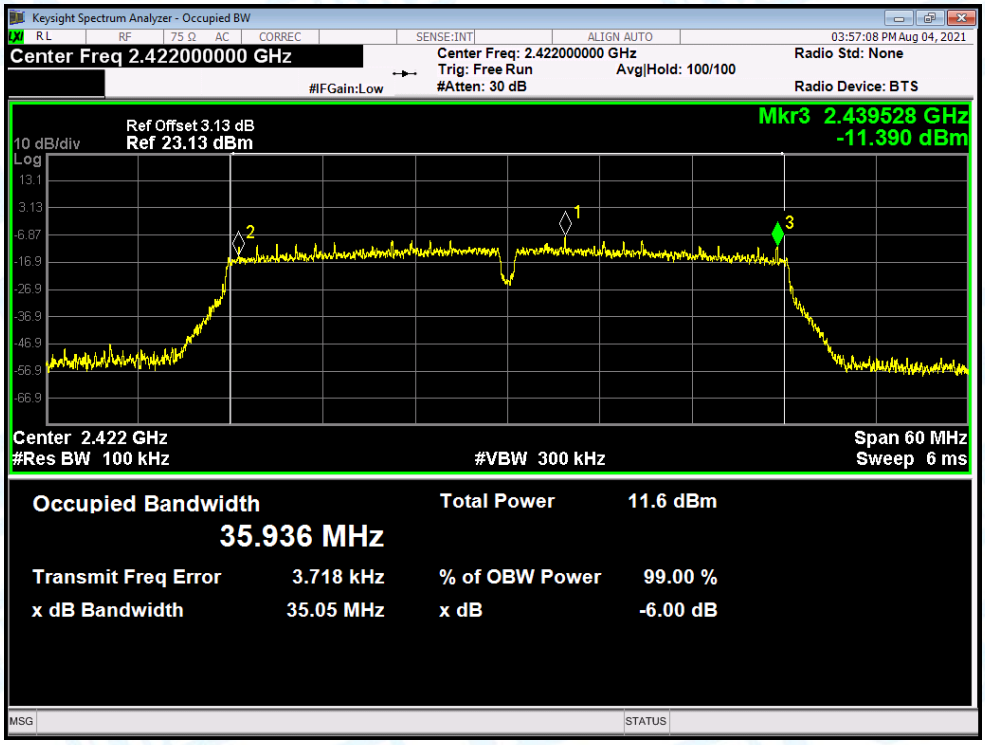
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant2



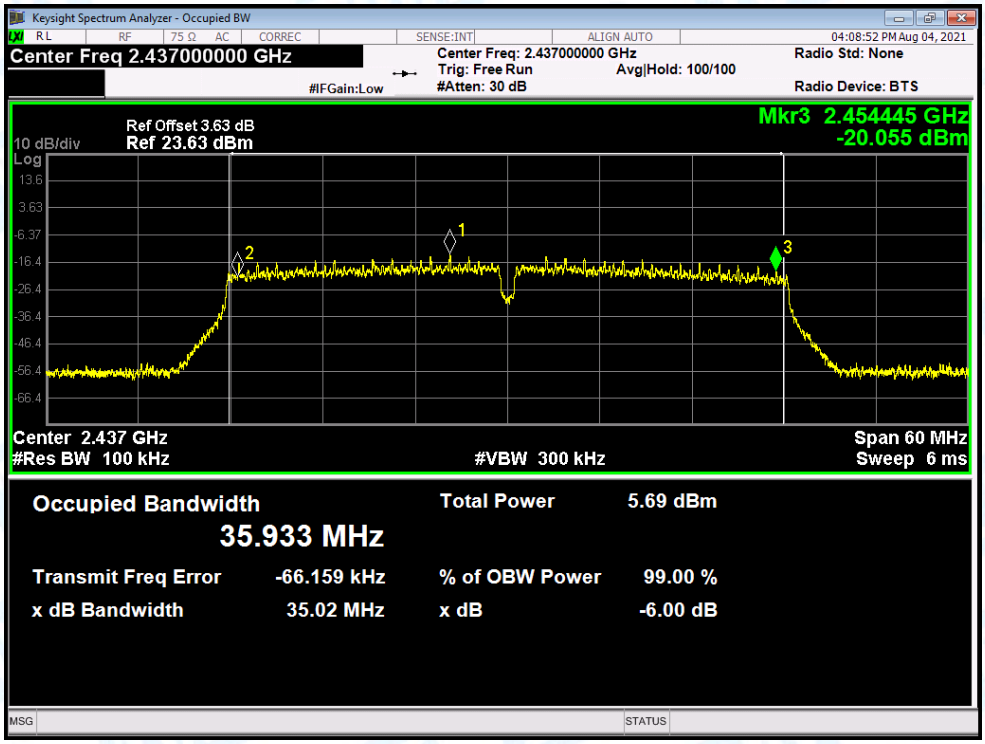
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



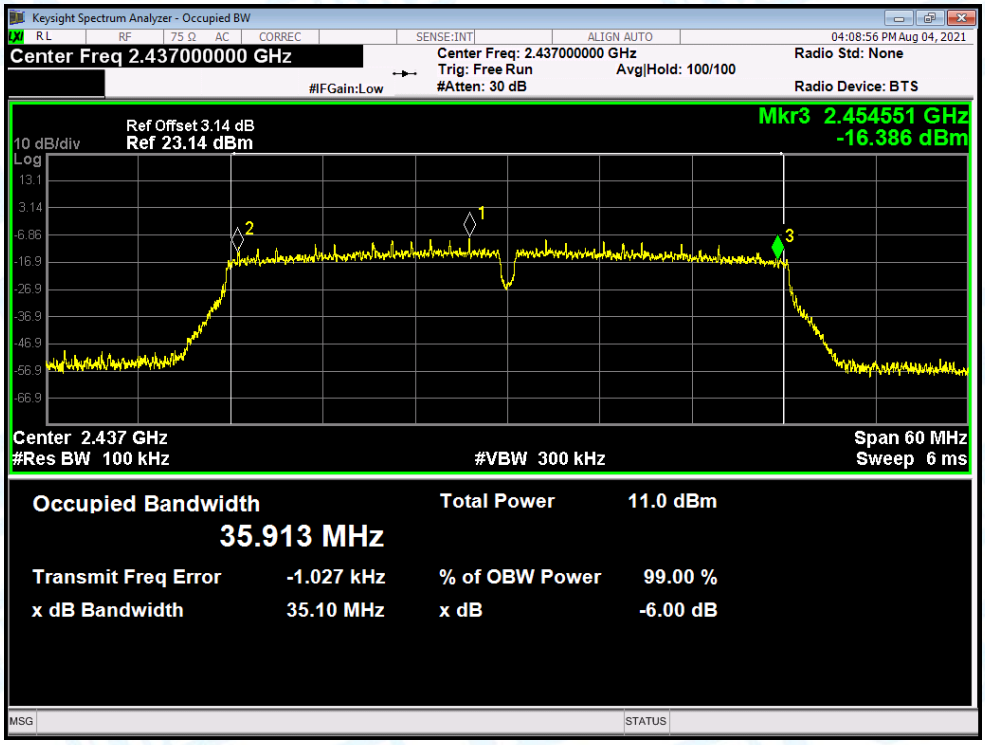
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant2



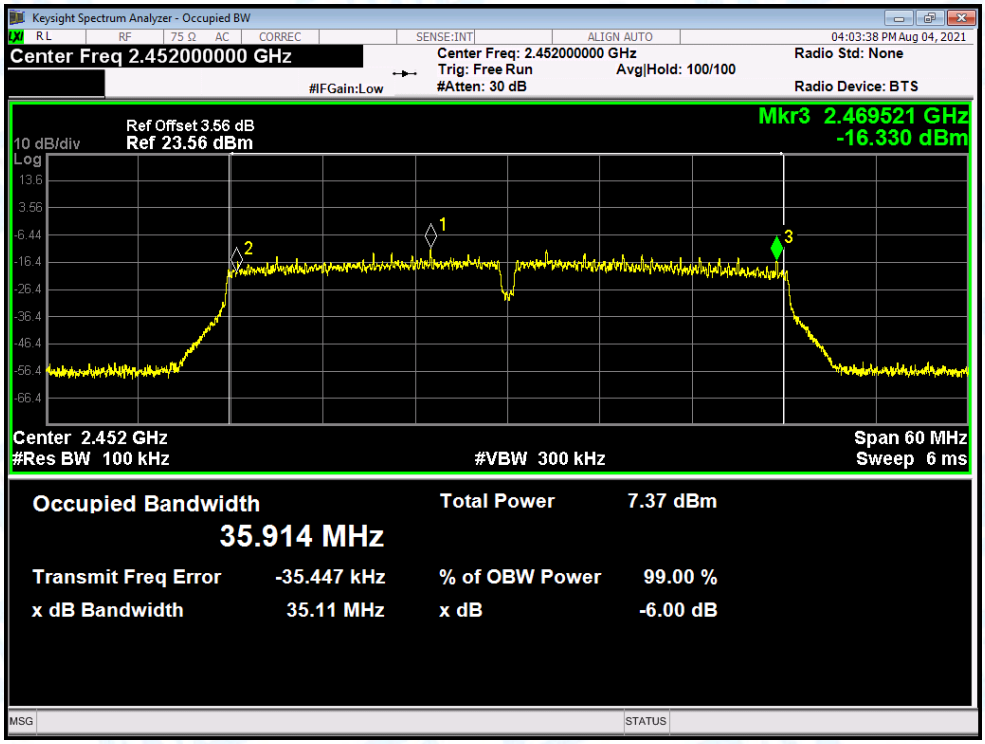
-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



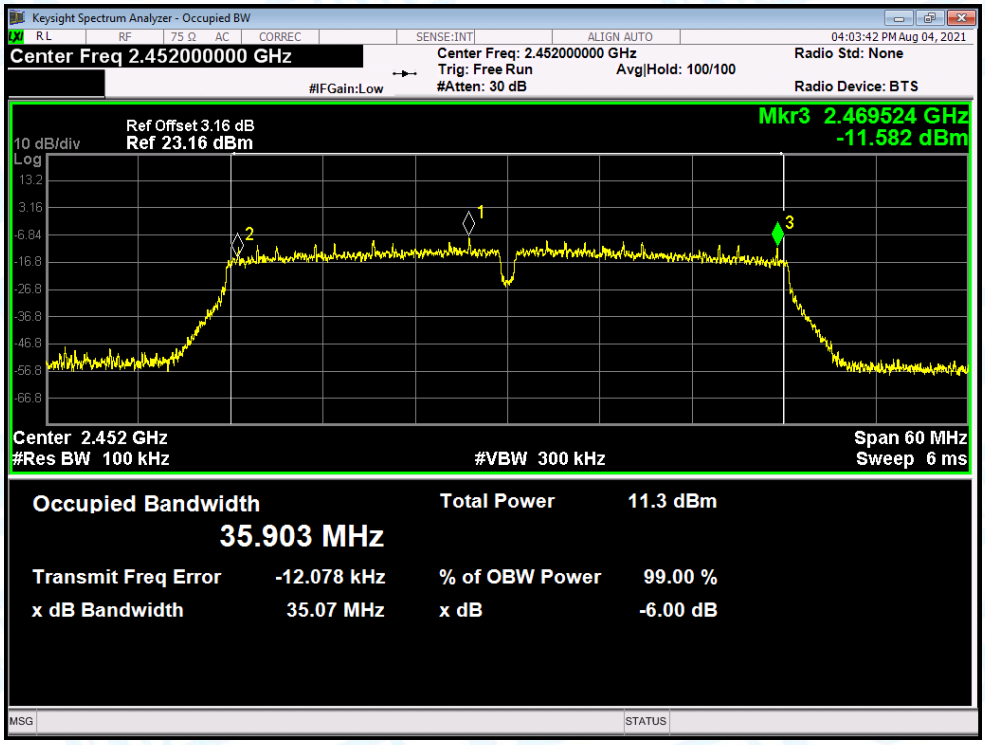
-6dB Bandwidth NVNT n(HT40) 2437MHz Ant2



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



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant2

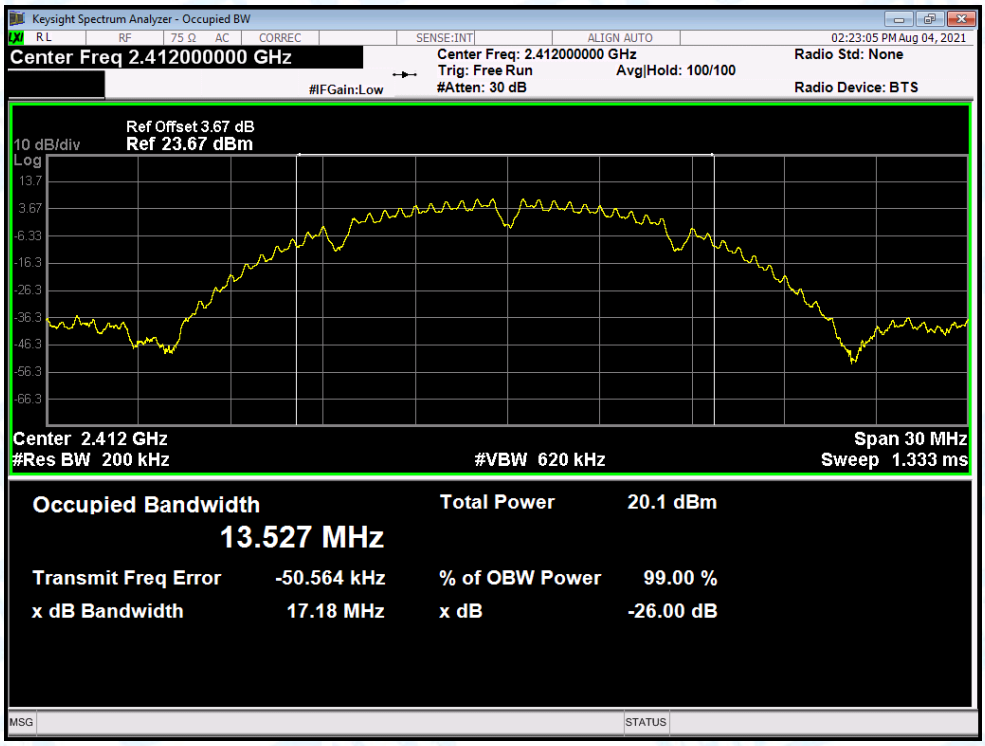


4.Occupied Channel Bandwidth

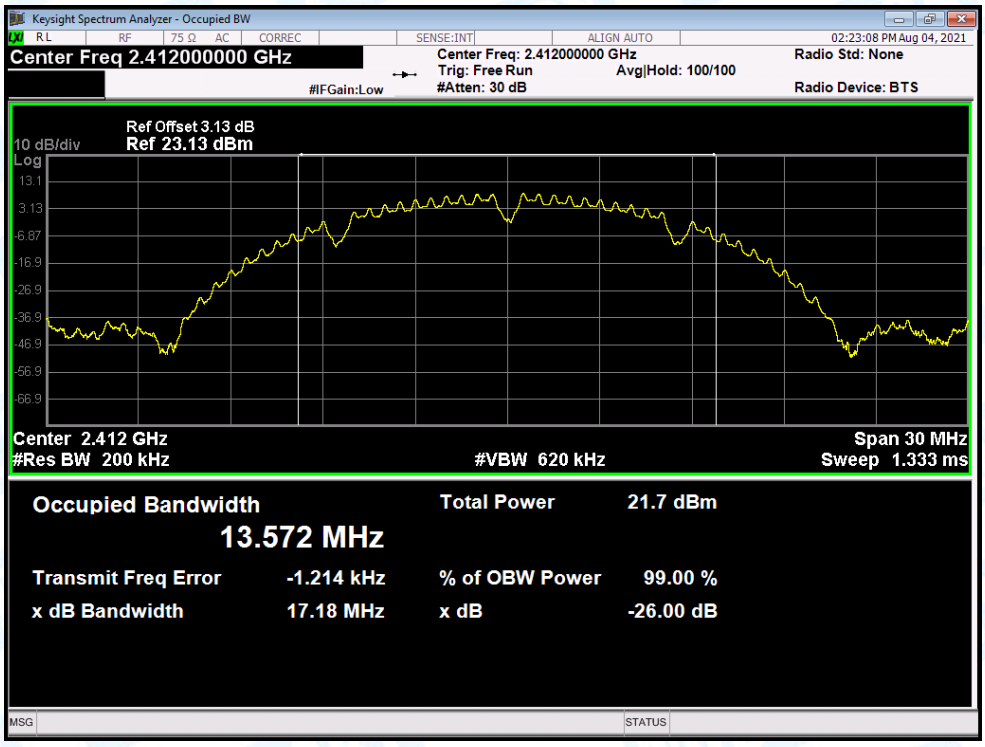
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.52732415
NVNT	b	2412	Ant2	13.57182249
NVNT	b	2437	Ant1	13.4171684
NVNT	b	2437	Ant2	13.64275706
NVNT	b	2462	Ant1	13.57696452
NVNT	b	2462	Ant2	13.59257418
NVNT	g	2412	Ant1	16.30603652
NVNT	g	2412	Ant2	16.38000185
NVNT	g	2437	Ant1	16.3387802
NVNT	g	2437	Ant2	16.38380141
NVNT	g	2462	Ant1	16.34387991
NVNT	g	2462	Ant2	16.36454406
NVNT	n(HT20)	2412	Ant1	17.48982792
NVNT	n(HT20)	2412	Ant2	17.53753409
NVNT	n(HT20)	2437	Ant1	17.52050336
NVNT	n(HT20)	2437	Ant2	17.54081556
NVNT	n(HT20)	2462	Ant1	17.4978776
NVNT	n(HT20)	2462	Ant2	17.55289479
NVNT	n(HT40)	2422	Ant1	36.13932888
NVNT	n(HT40)	2422	Ant2	36.02371051
NVNT	n(HT40)	2437	Ant1	36.06899947
NVNT	n(HT40)	2437	Ant2	36.0637355
NVNT	n(HT40)	2452	Ant1	36.10672434
NVNT	n(HT40)	2452	Ant2	36.04021569

Test Graphs

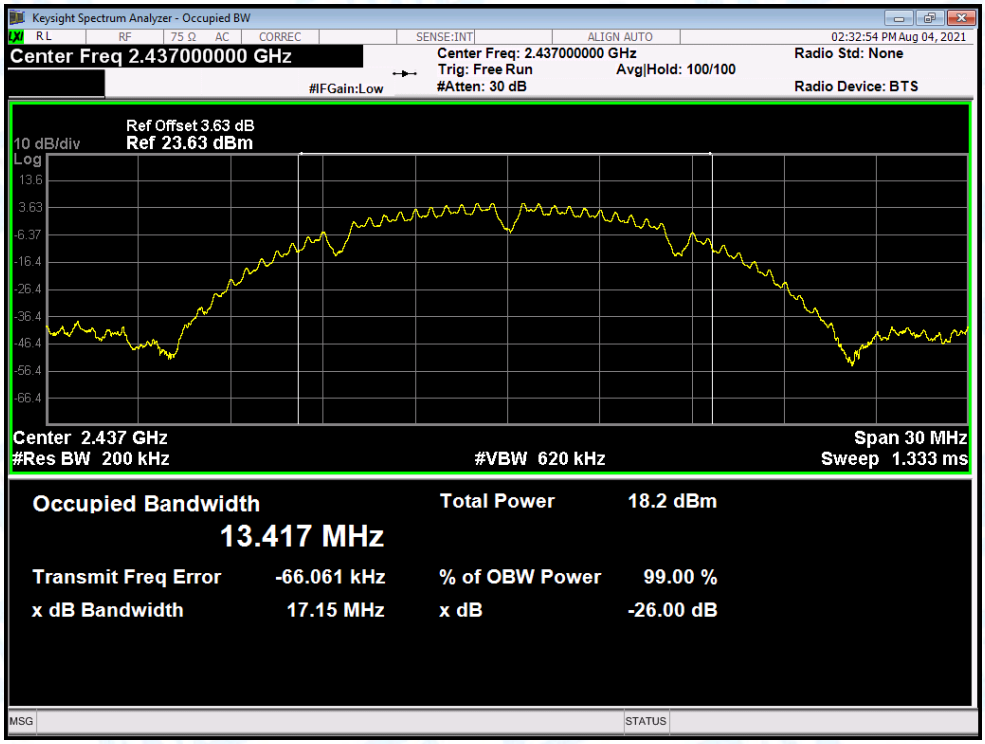
OBW NVNT b 2412MHz Ant1



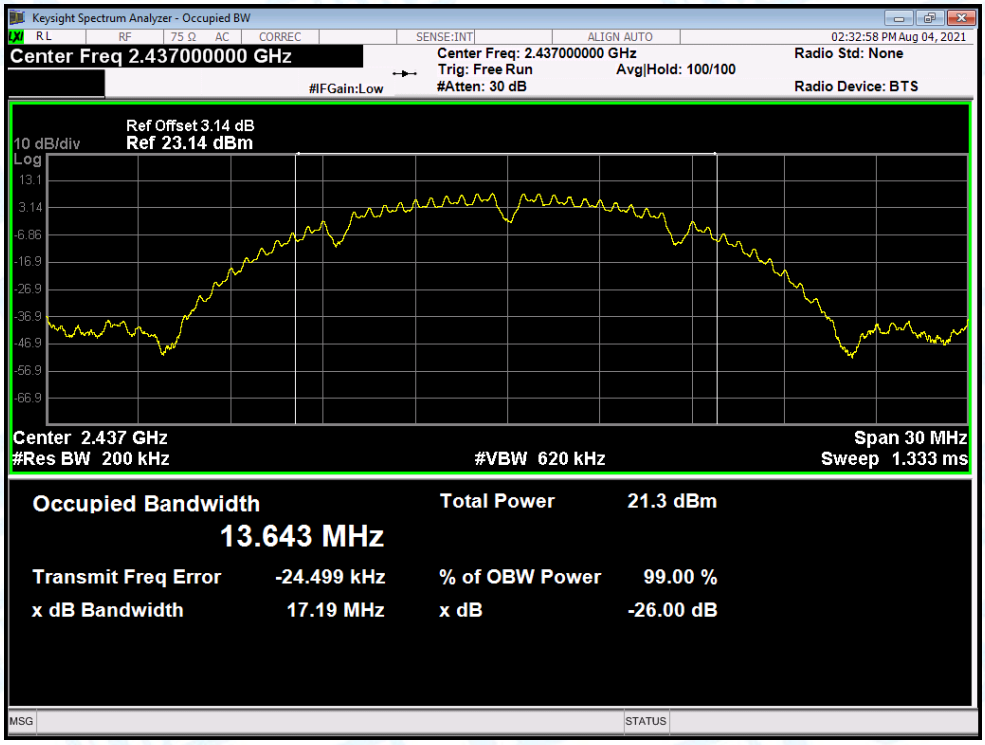
OBW NVNT b 2412MHz Ant2



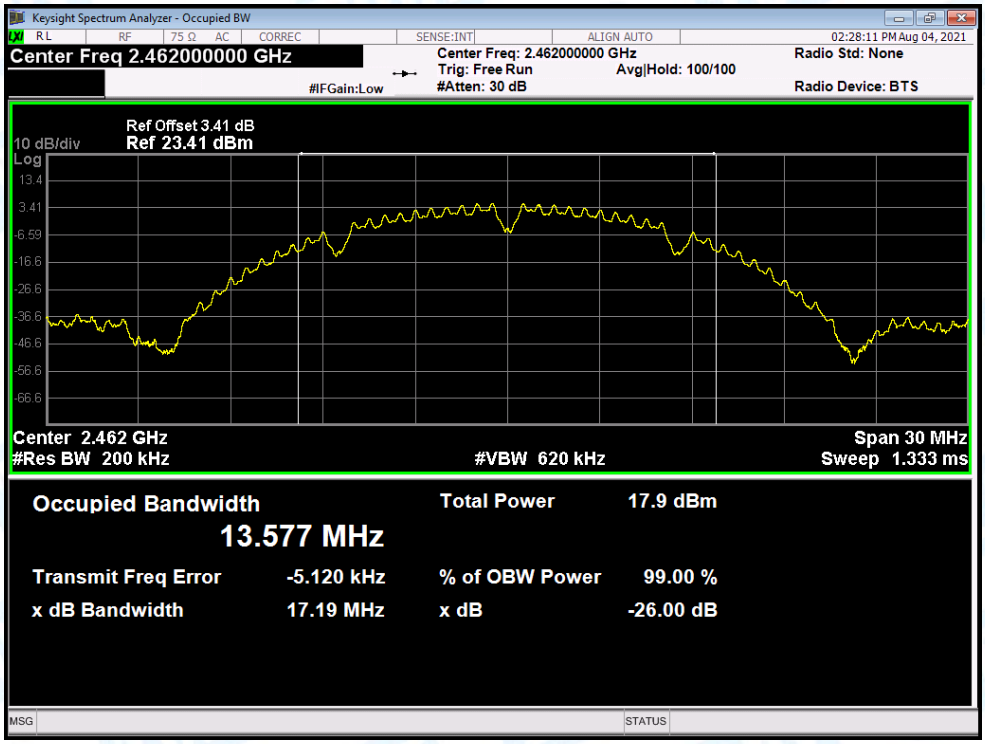
OBW NVNT b 2437MHz Ant1



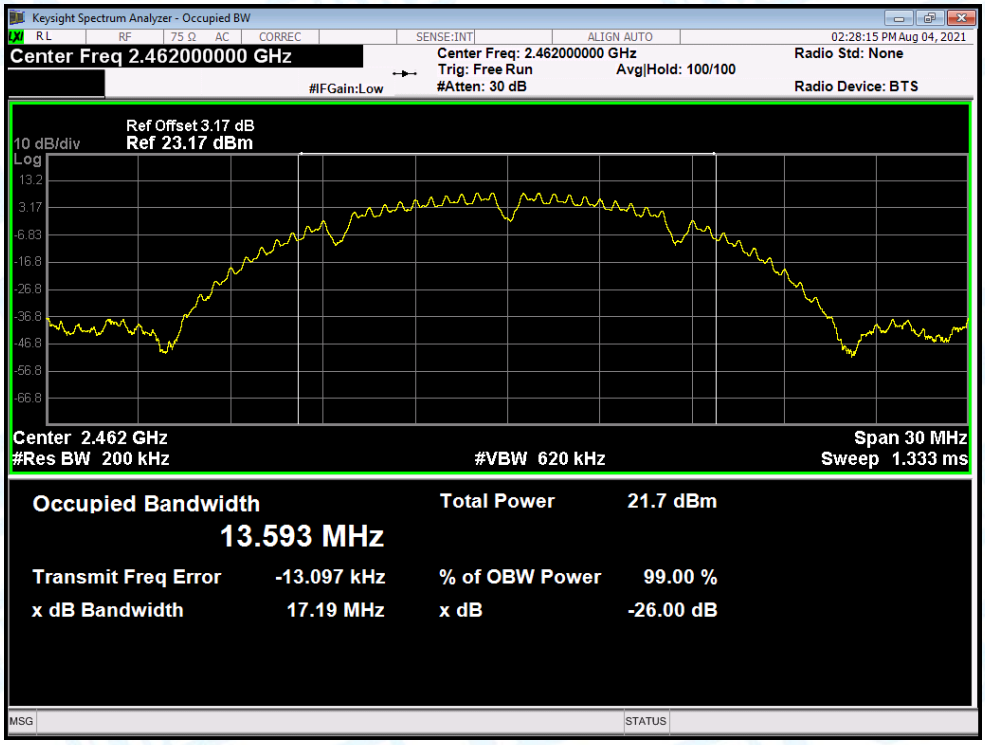
OBW NVNT b 2437MHz Ant2



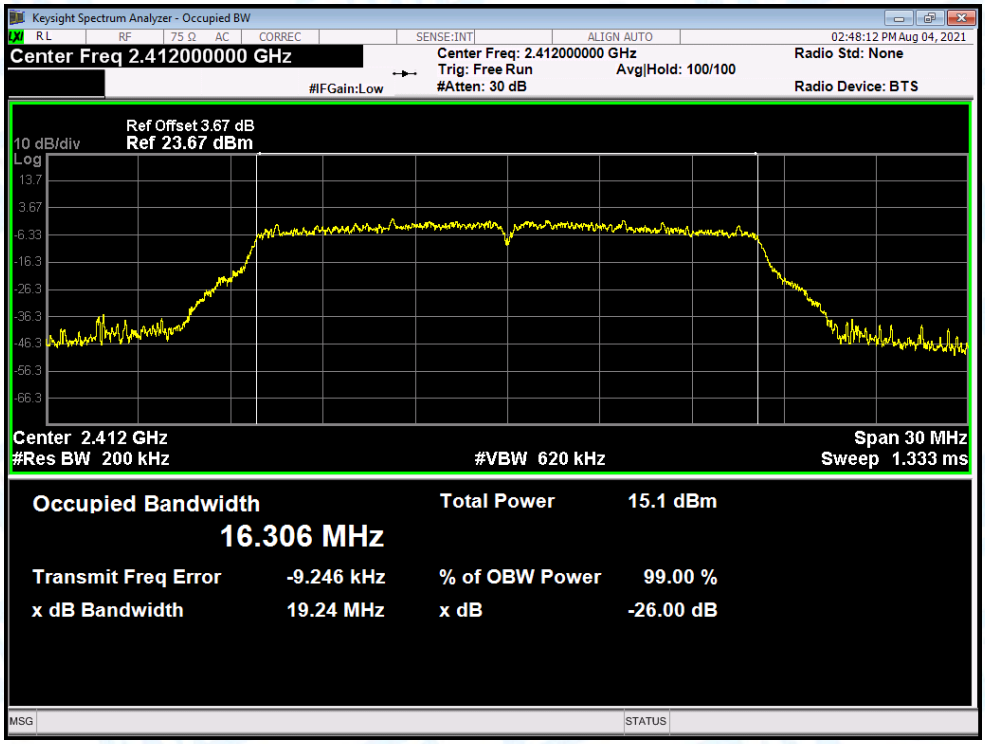
OBW NVNT b 2462MHz Ant1



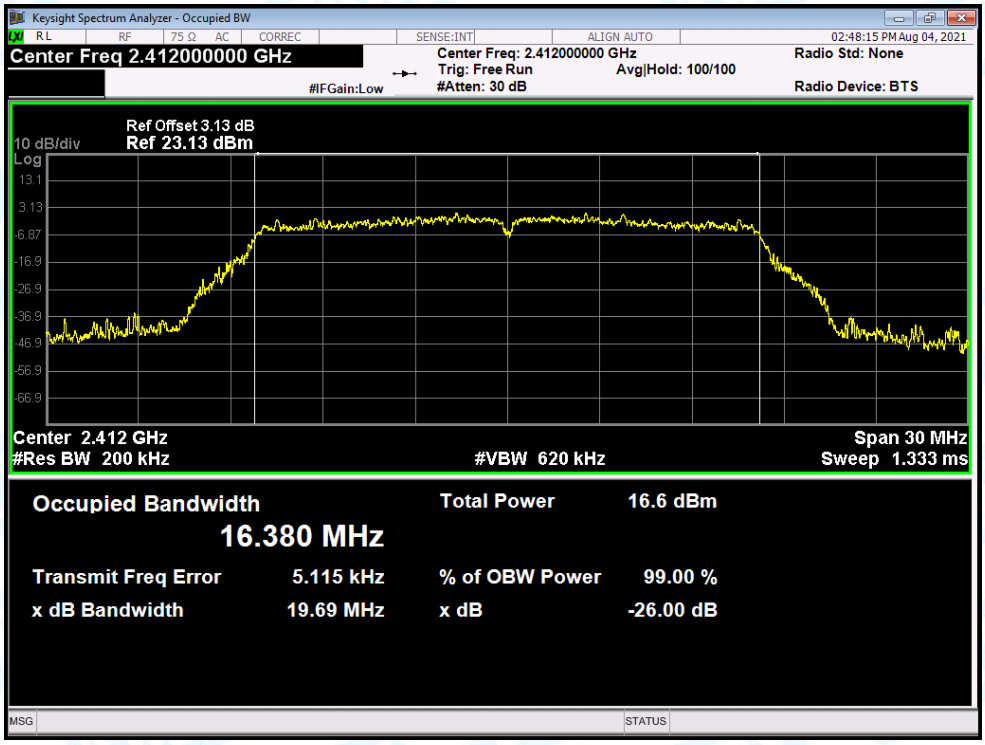
OBW NVNT b 2462MHz Ant2



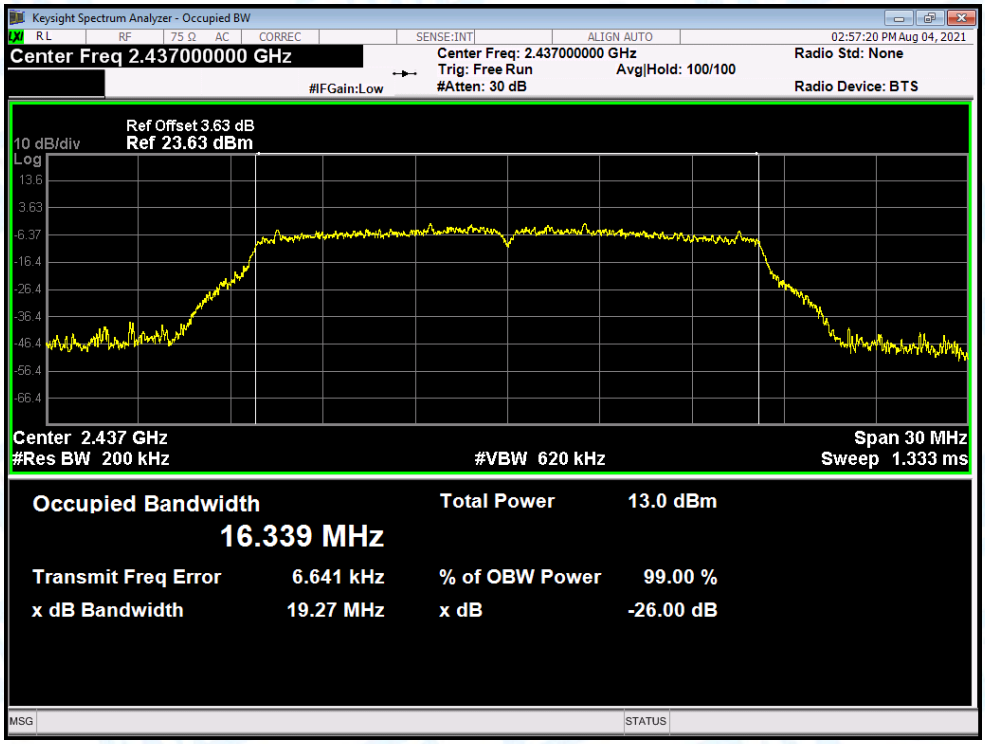
OBW NVNT g 2412MHz Ant1



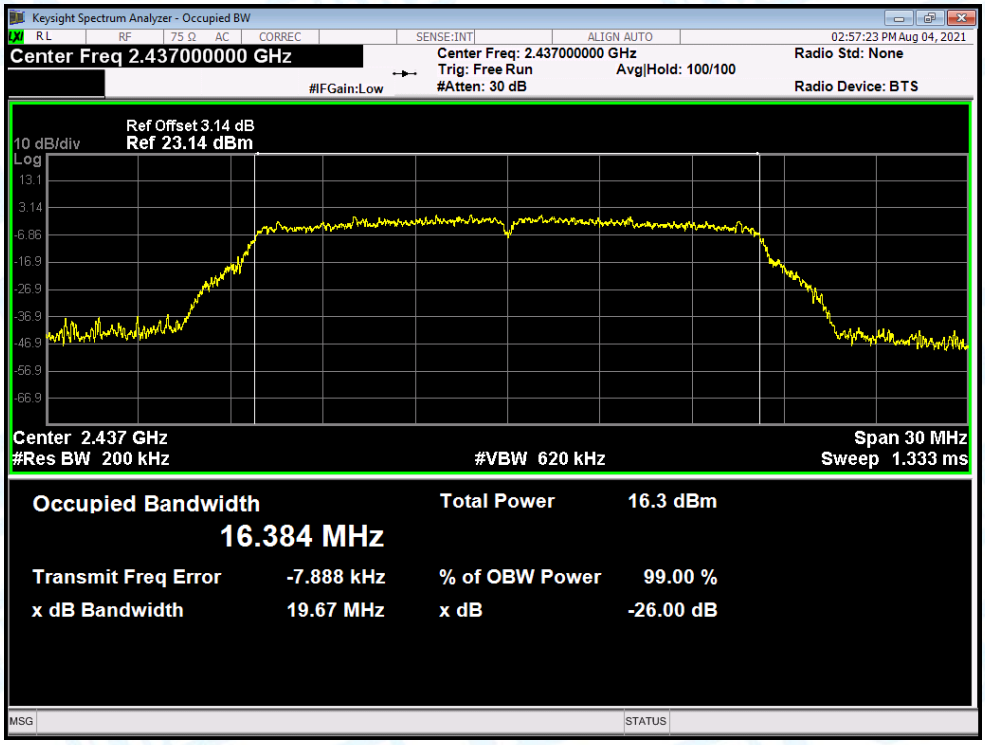
OBW NVNT g 2412MHz Ant2



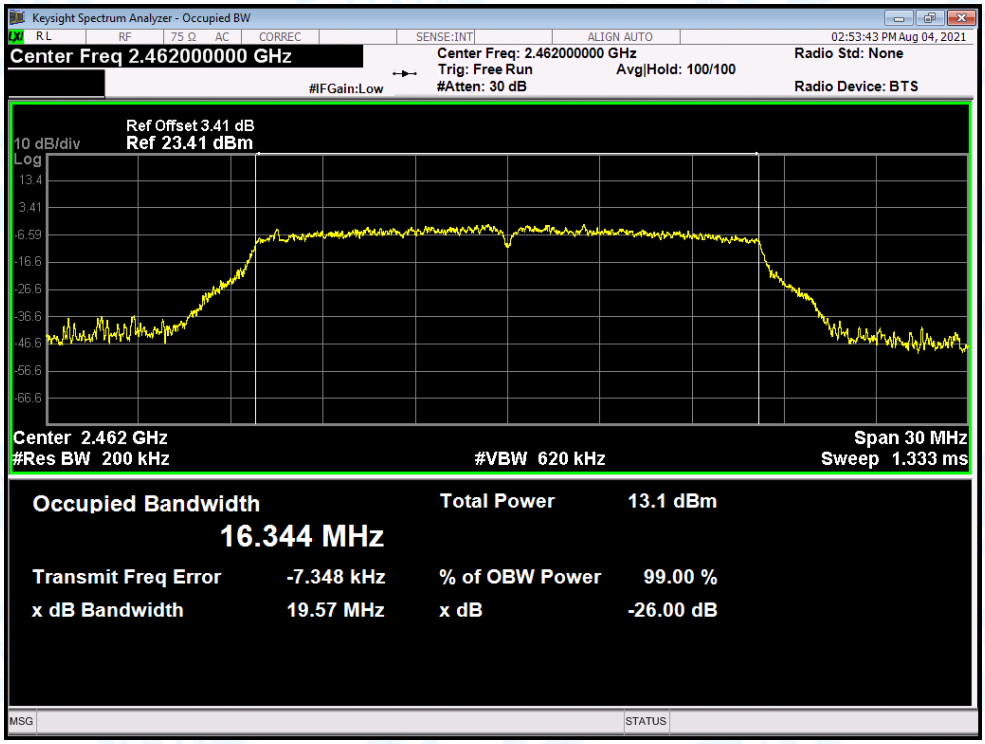
OBW NVNT g 2437MHz Ant1



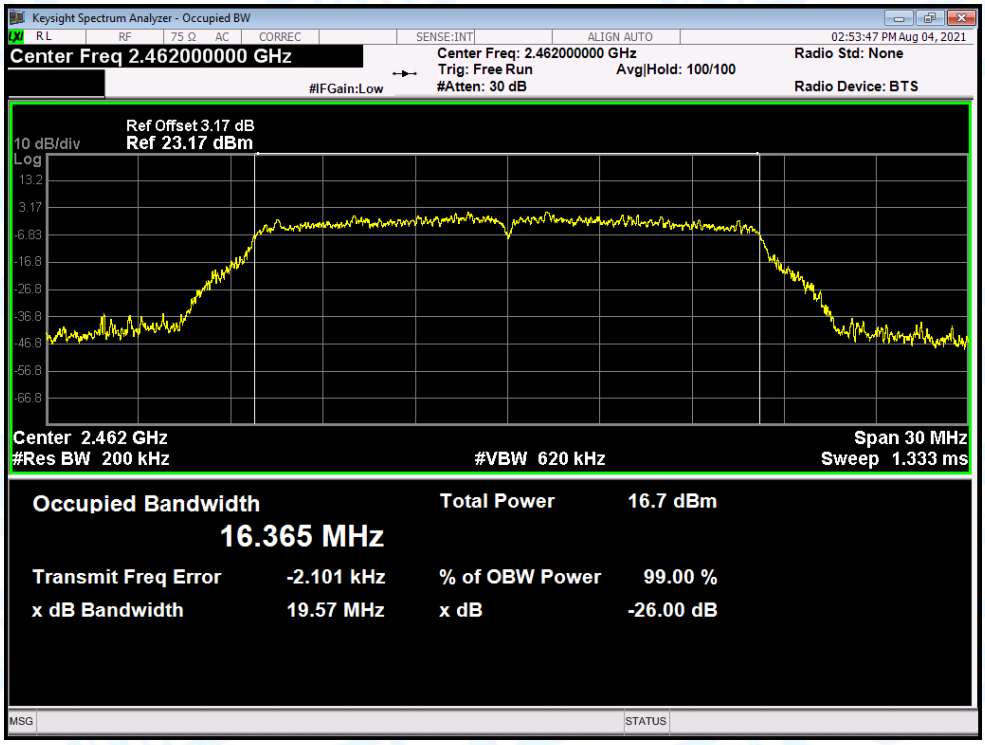
OBW NVNT g 2437MHz Ant2



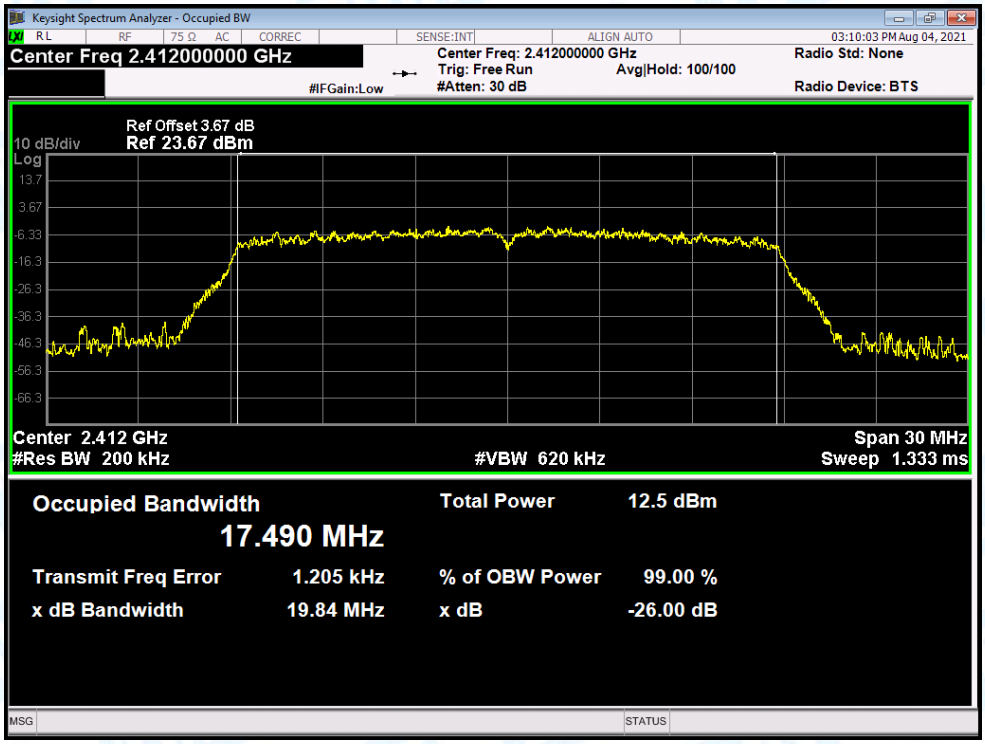
OBW NVNT g 2462MHz Ant1



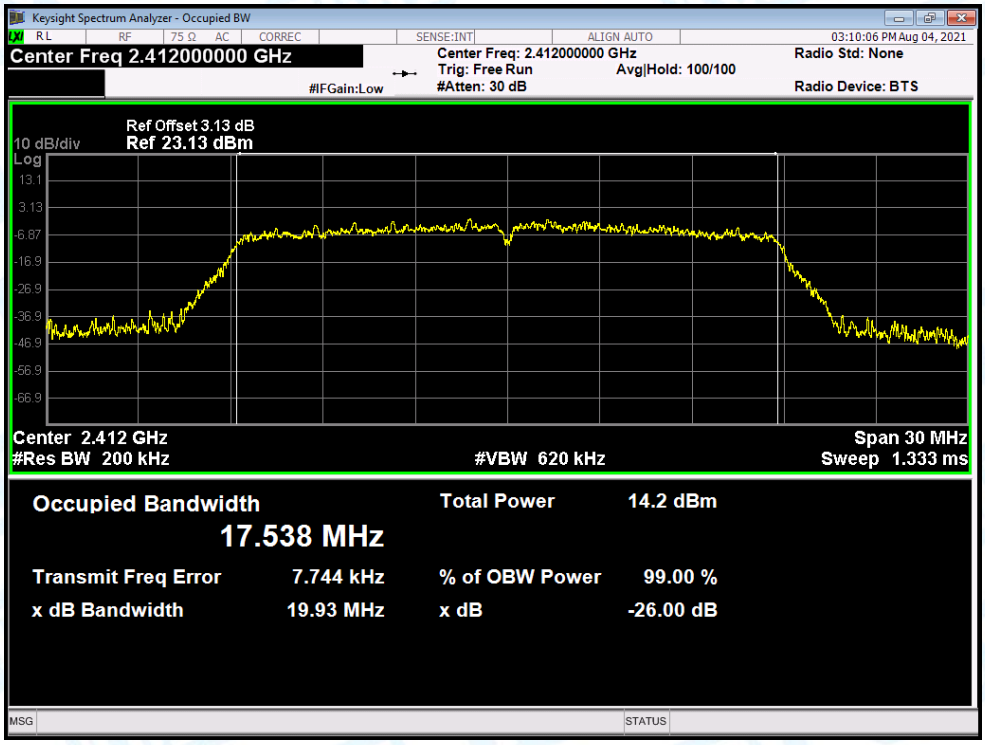
OBW NVNT g 2462MHz Ant2



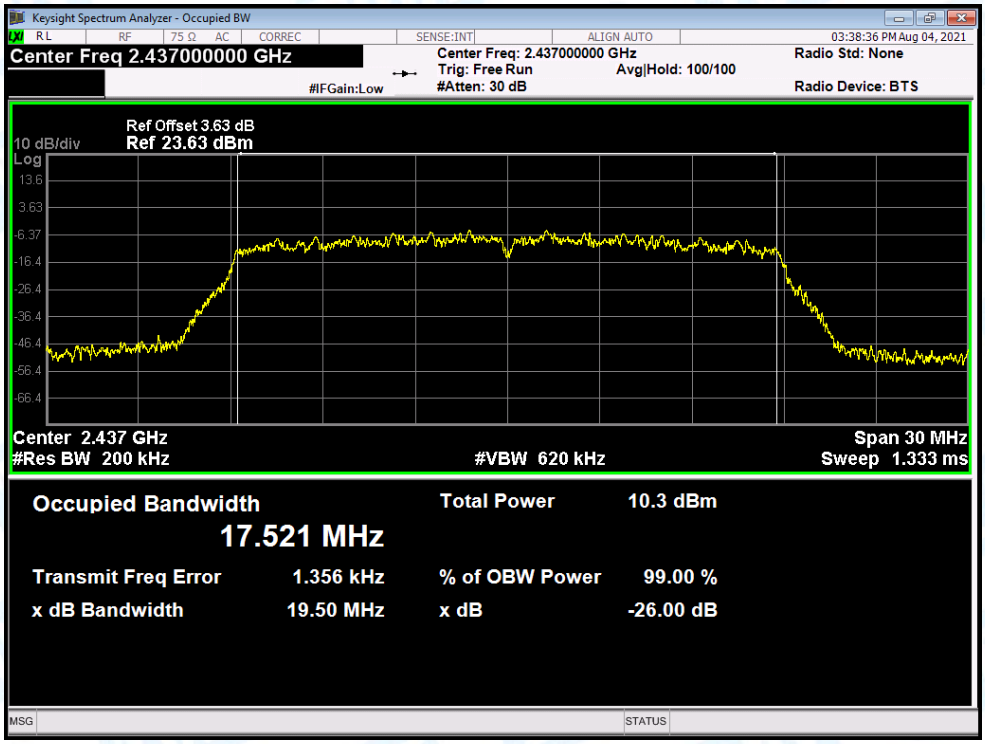
OBW NVNT n(HT20) 2412MHz Ant1



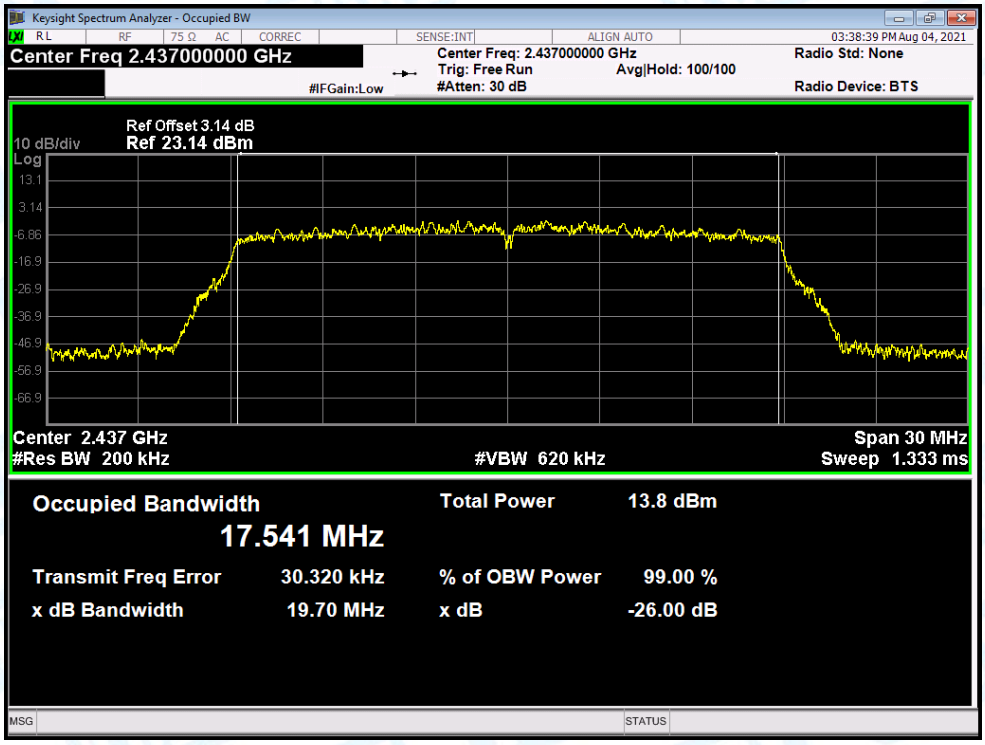
OBW NVNT n(HT20) 2412MHz Ant2



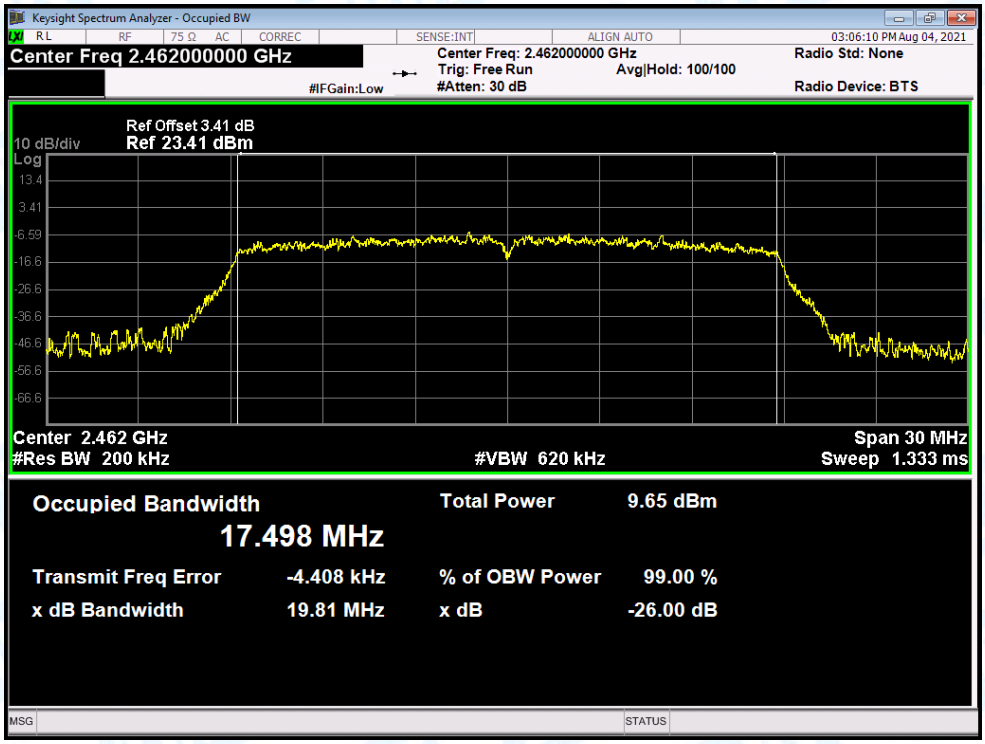
OBW NVNT n(HT20) 2437MHz Ant1



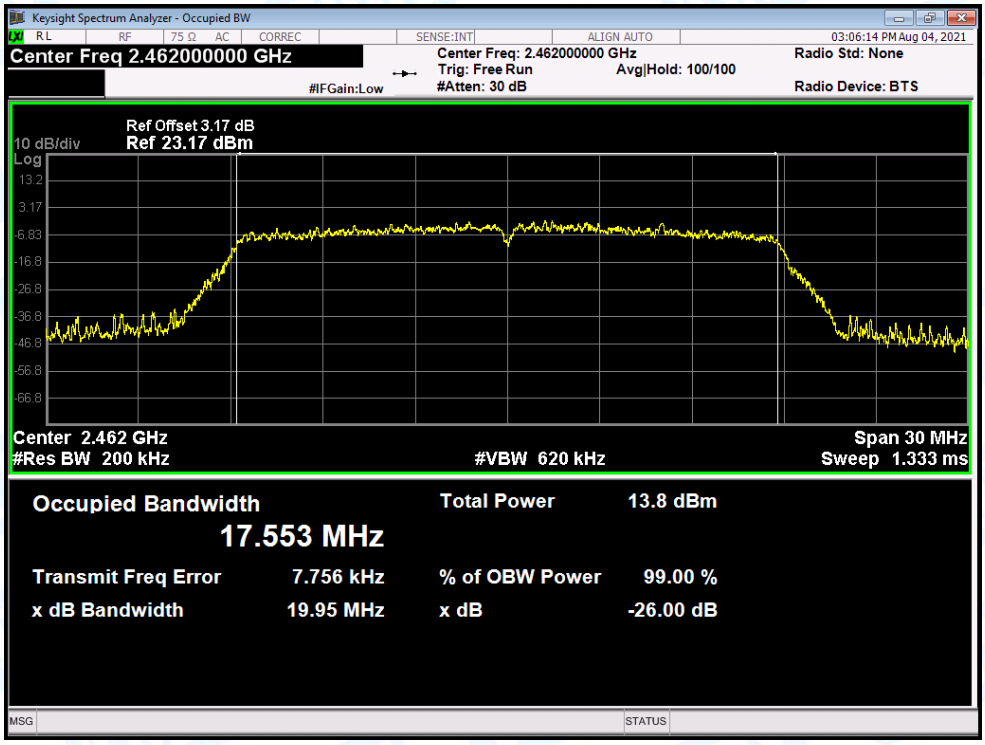
OBW NVNT n(HT20) 2437MHz Ant2



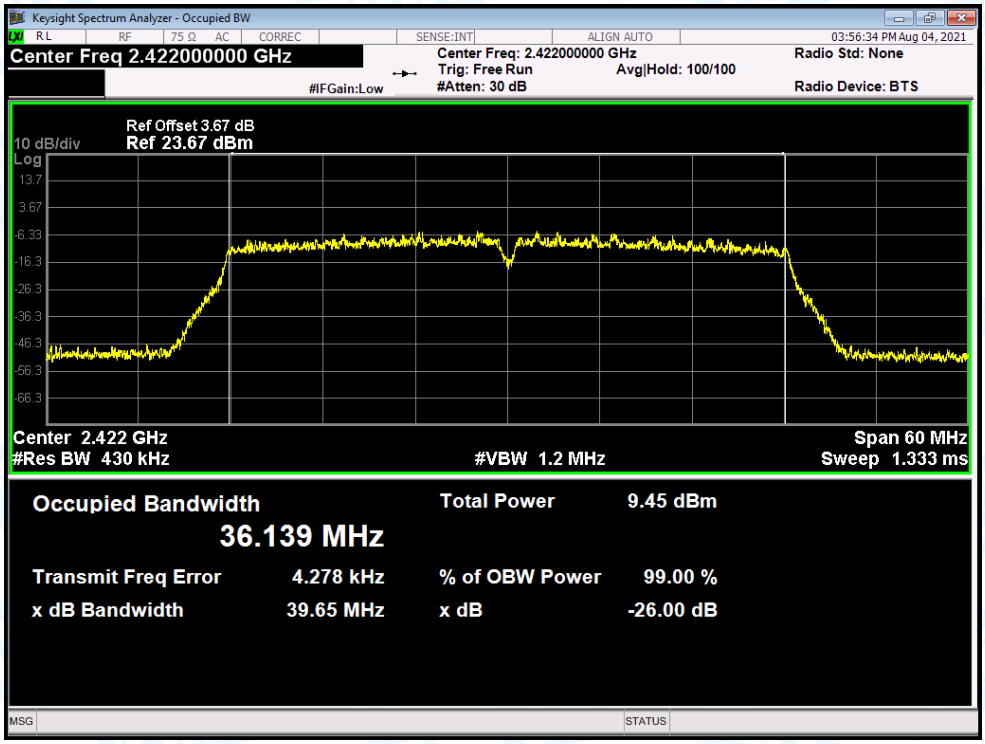
OBW NVNT n(HT20) 2462MHz Ant1



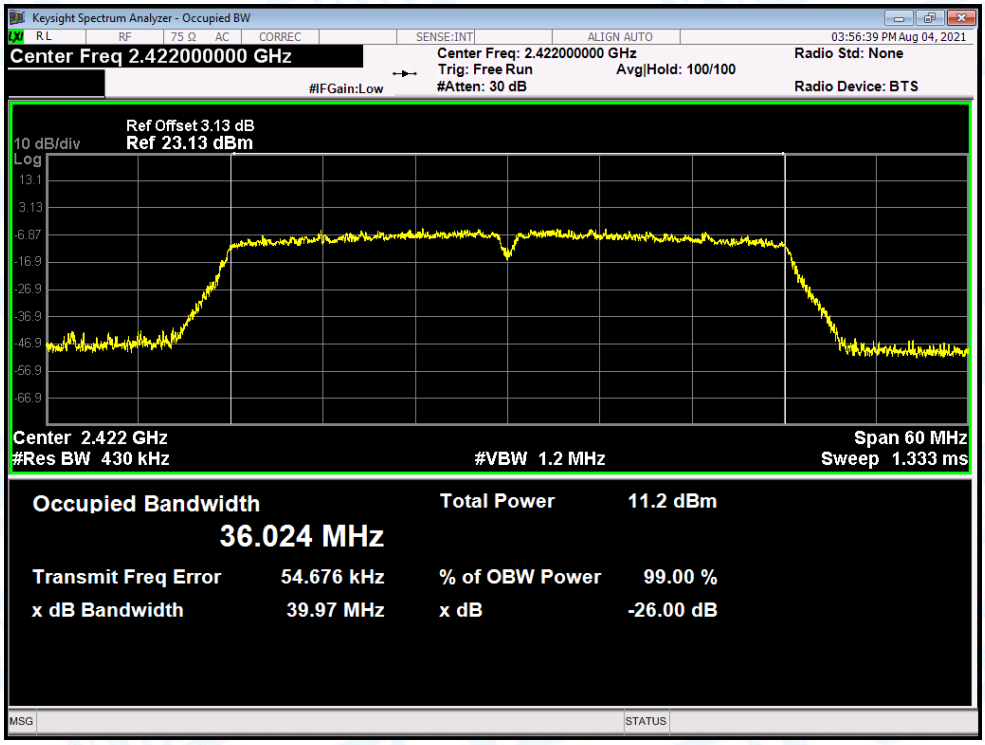
OBW NVNT n(HT20) 2462MHz Ant2



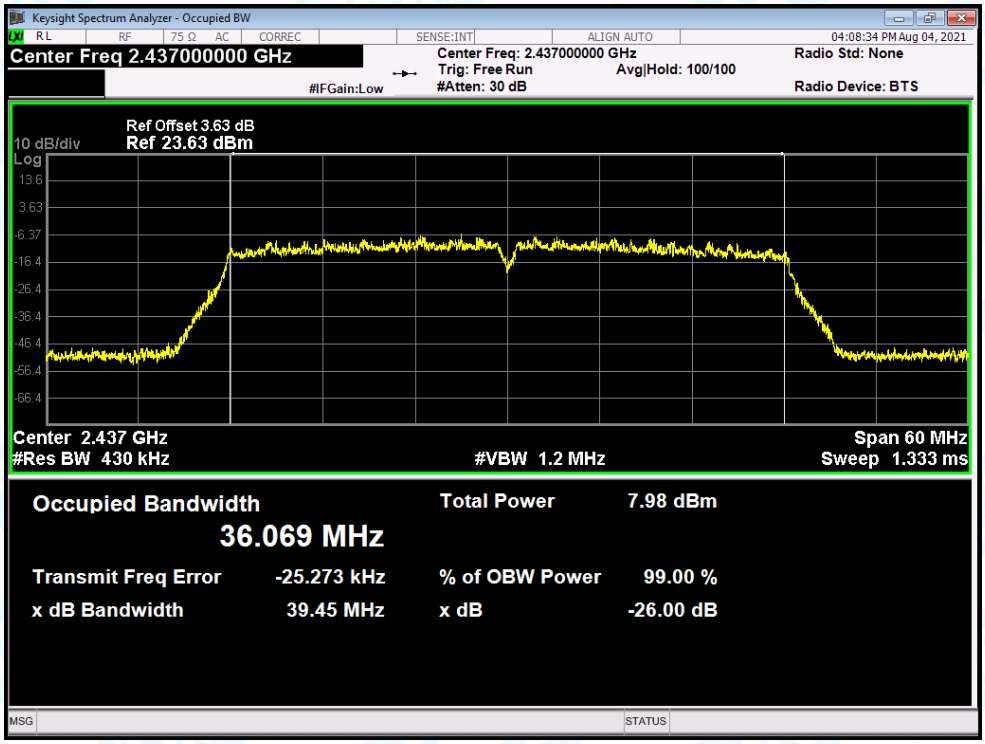
OBW NVNT n(HT40) 2422MHz Ant1



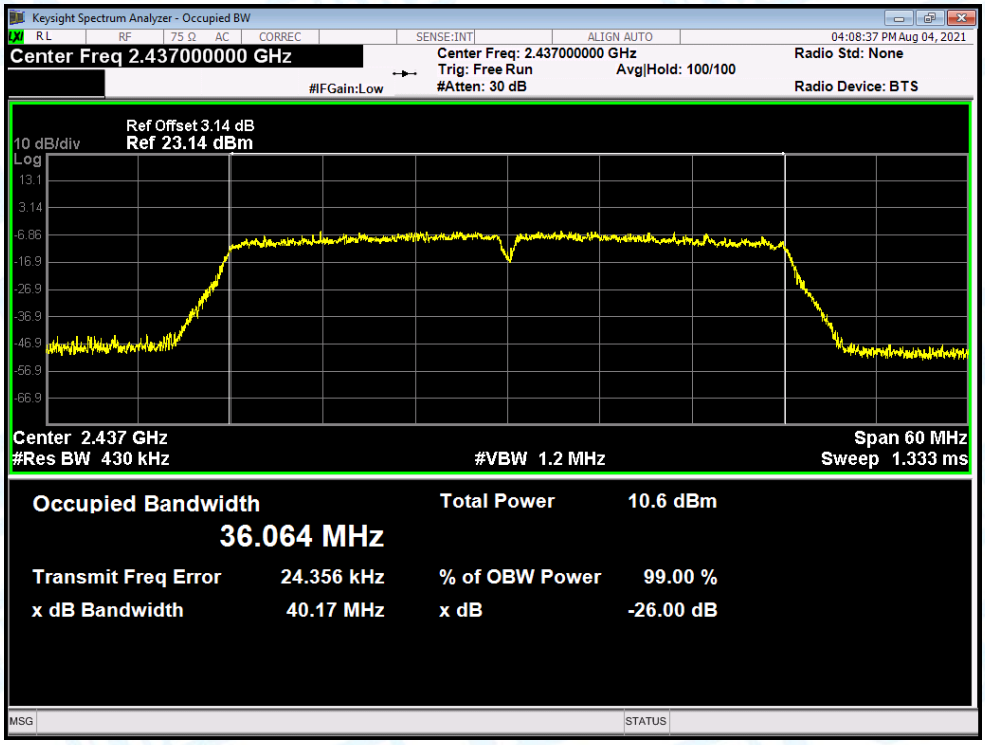
OBW NVNT n(HT40) 2422MHz Ant2



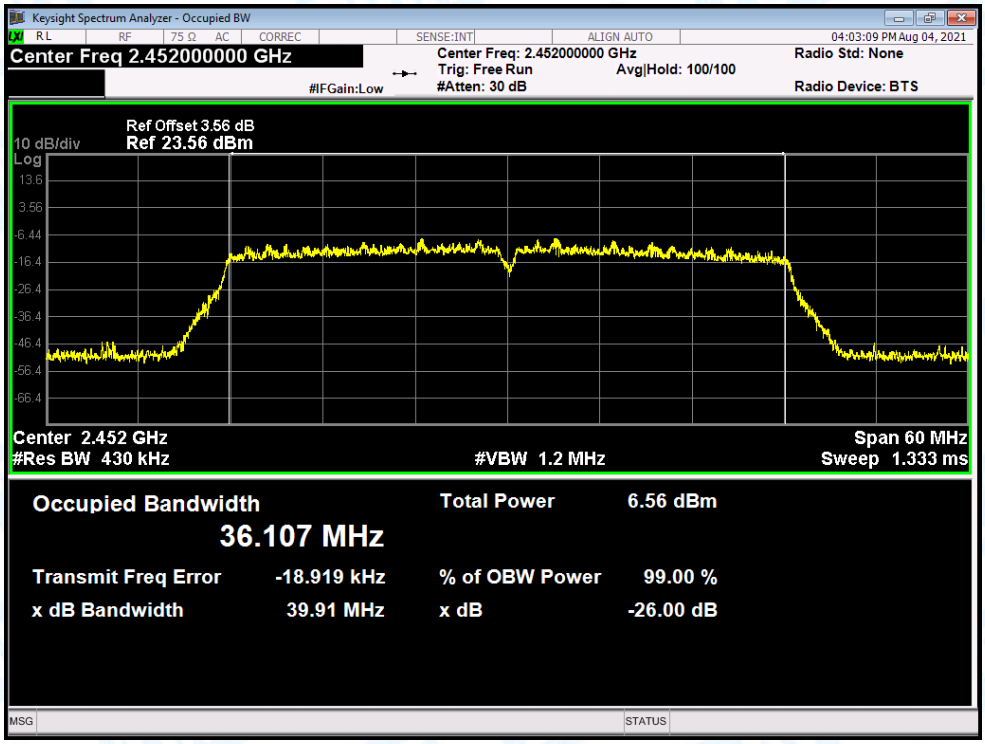
OBW NVNT n(HT40) 2437MHz Ant1



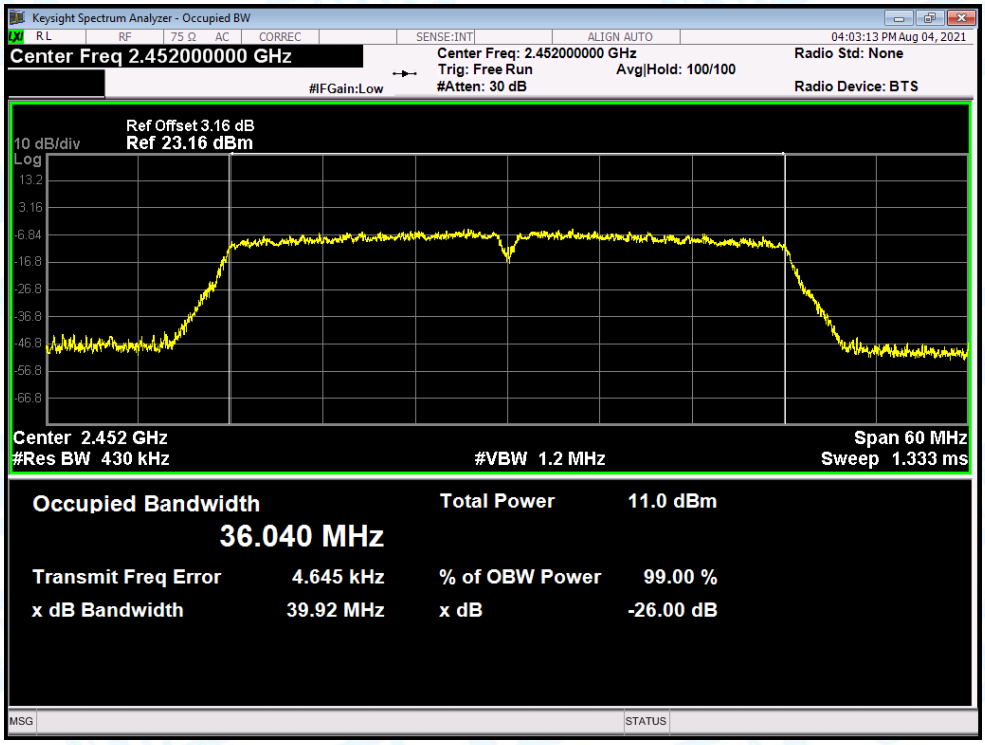
OBW NVNT n(HT40) 2437MHz Ant2



OBW NVNT n(HT40) 2452MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant2

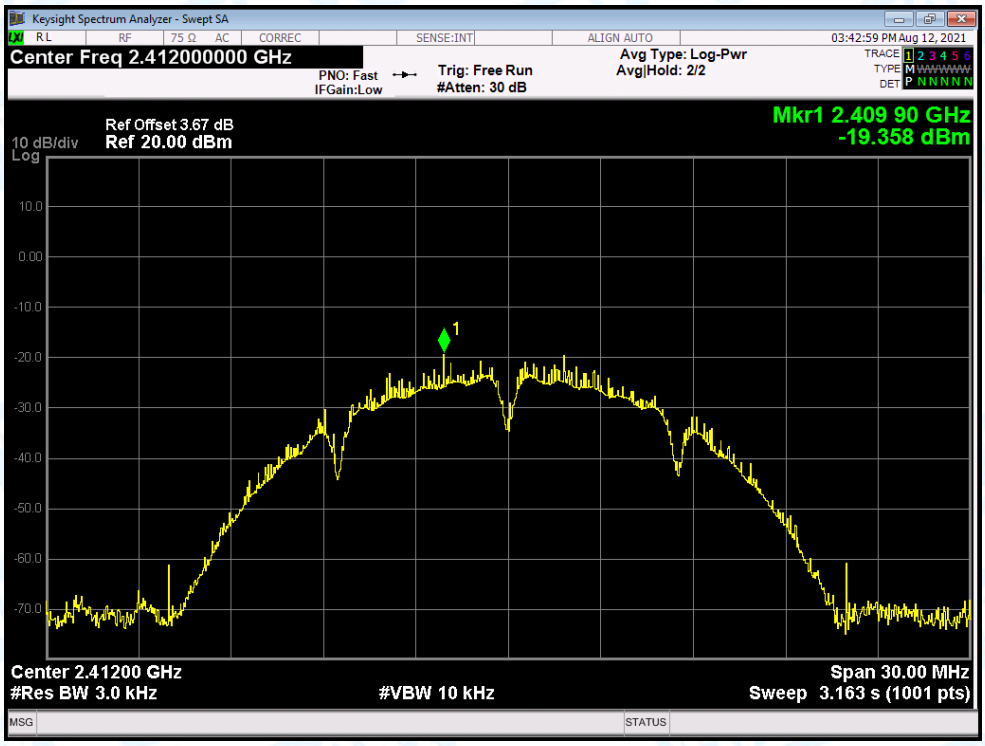


5.Maximum Power Spectral Density Level

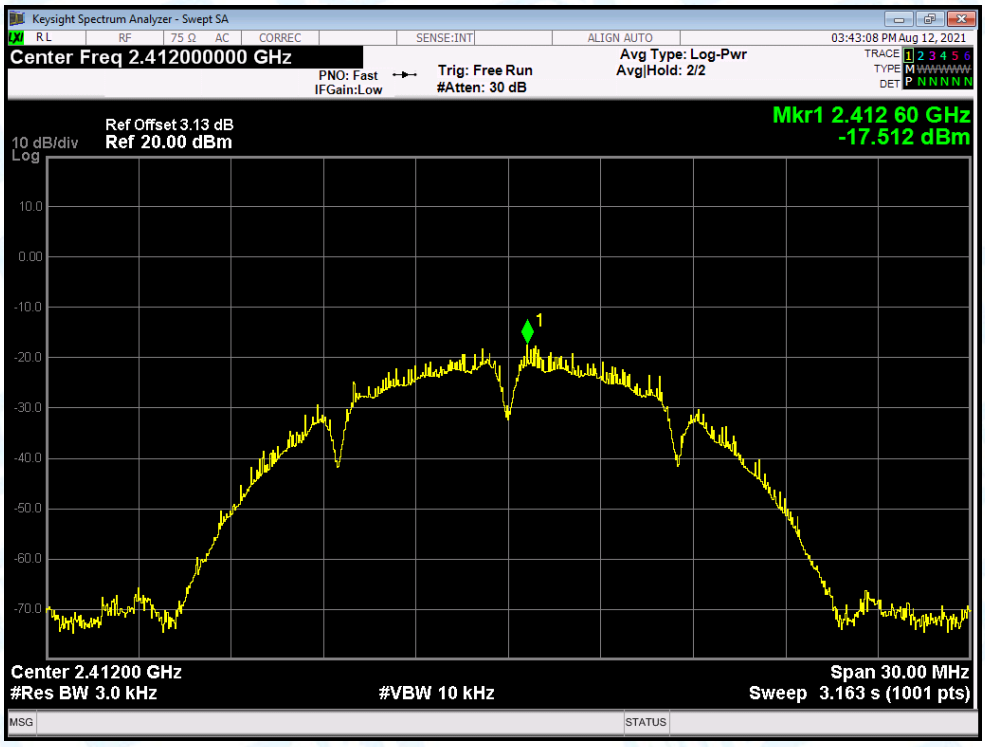
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-19.358	8	Pass
NVNT	b	2412	Ant2	-17.512	8	Pass
NVNT	b	2437	Ant1	-22.362	8	Pass
NVNT	b	2437	Ant2	-16.811	8	Pass
NVNT	b	2462	Ant1	-20.654	8	Pass
NVNT	b	2462	Ant2	-16.286	8	Pass
NVNT	g	2412	Ant1	-16.941	8	Pass
NVNT	g	2412	Ant2	-13.621	8	Pass
NVNT	g	2437	Ant1	-16.802	8	Pass
NVNT	g	2437	Ant2	-14.374	8	Pass
NVNT	g	2462	Ant1	-19.481	8	Pass
NVNT	g	2462	Ant2	-16.13	8	Pass
NVNT	n(HT20)	2412	Ant1	-18.839	8	Pass
NVNT	n(HT20)	2412	Ant2	-16.414	8	Pass
NVNT	n(HT20)	2412	Sum	-14.449	8	Pass
NVNT	n(HT20)	2437	Ant1	-21.326	8	Pass
NVNT	n(HT20)	2437	Ant2	-18.571	8	Pass
NVNT	n(HT20)	2437	Sum	-16.723	8	Pass
NVNT	n(HT20)	2462	Ant1	-22.019	8	Pass
NVNT	n(HT20)	2462	Ant2	-16.342	8	Pass
NVNT	n(HT20)	2462	Sum	-15.302	8	Pass
NVNT	n(HT40)	2422	Ant1	-26.179	8	Pass
NVNT	n(HT40)	2422	Ant2	-23.437	8	Pass
NVNT	n(HT40)	2422	Sum	-21.585	8	Pass
NVNT	n(HT40)	2437	Ant1	-26.608	8	Pass
NVNT	n(HT40)	2437	Ant2	-23.628	8	Pass
NVNT	n(HT40)	2437	Sum	-21.857	8	Pass
NVNT	n(HT40)	2452	Ant1	-27.51	8	Pass
NVNT	n(HT40)	2452	Ant2	-24.091	8	Pass
NVNT	n(HT40)	2452	Sum	-22.462	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1

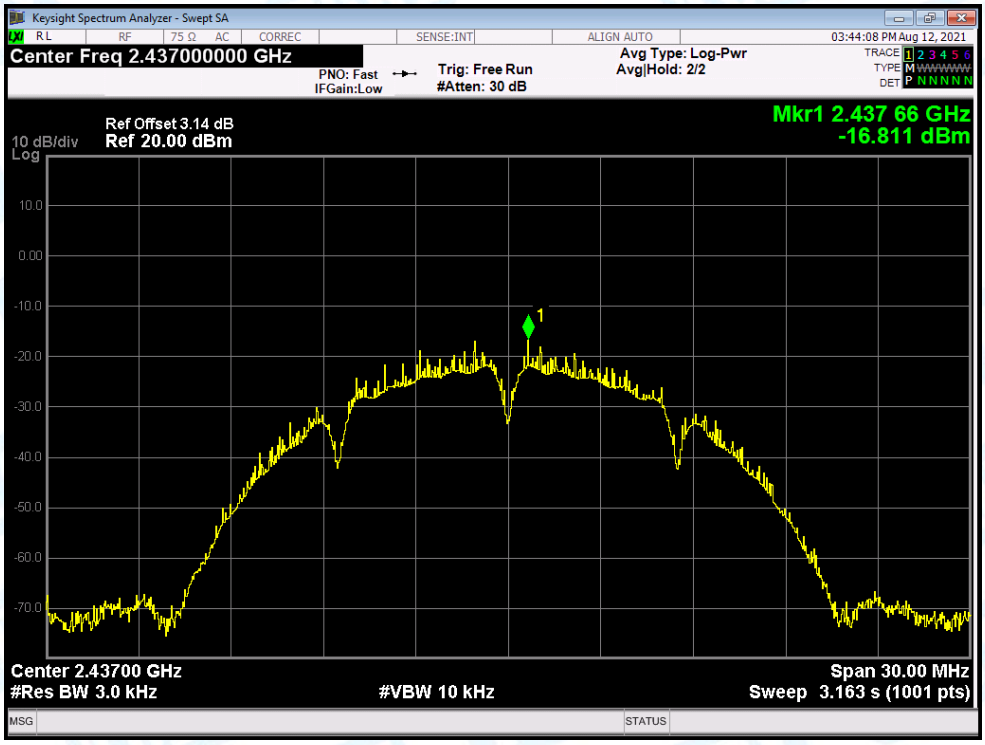


PSD NVNT b 2412MHz Ant2



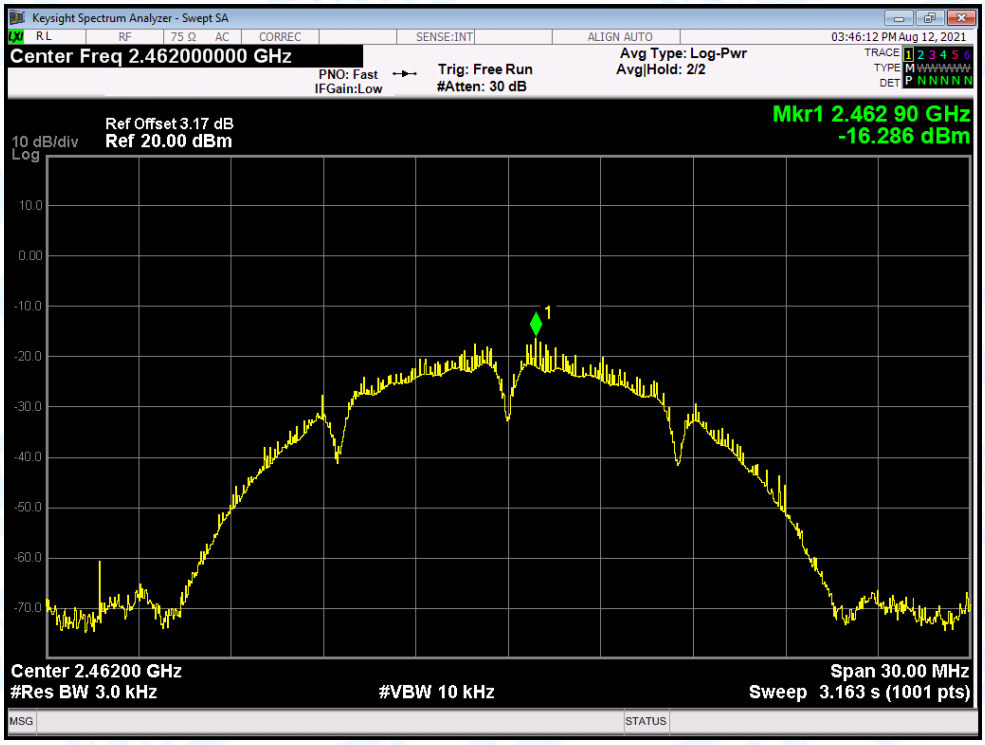
PSD NVNT b 2437MHz Ant1

PSD NVNT b 2437MHz Ant2

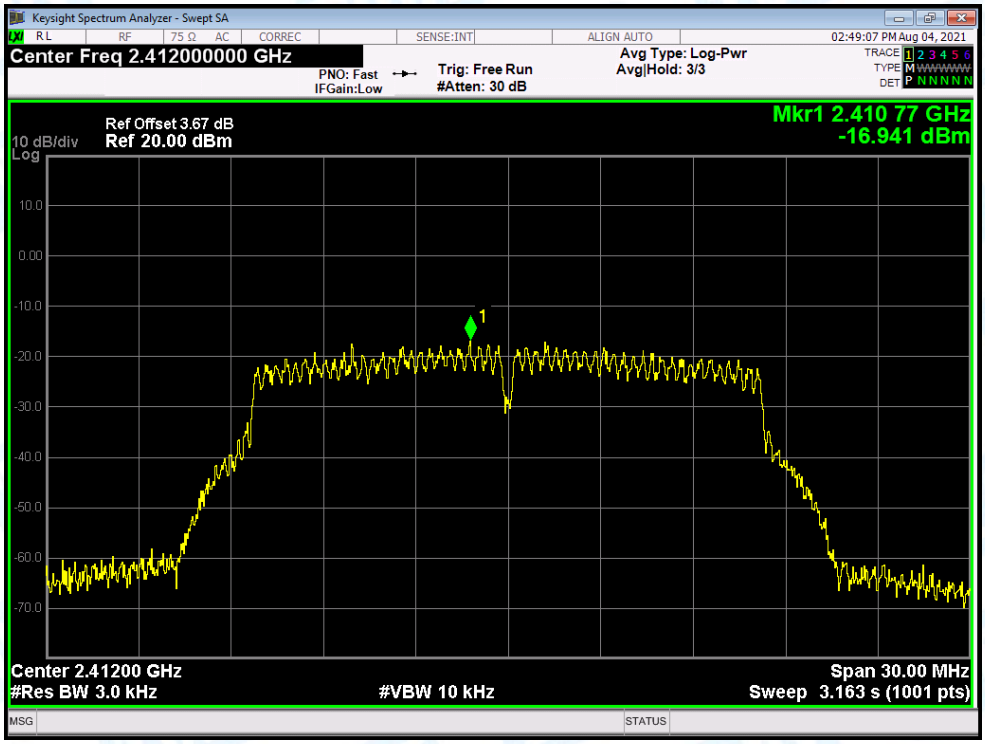


PSD NVNT b 2462MHz Ant1

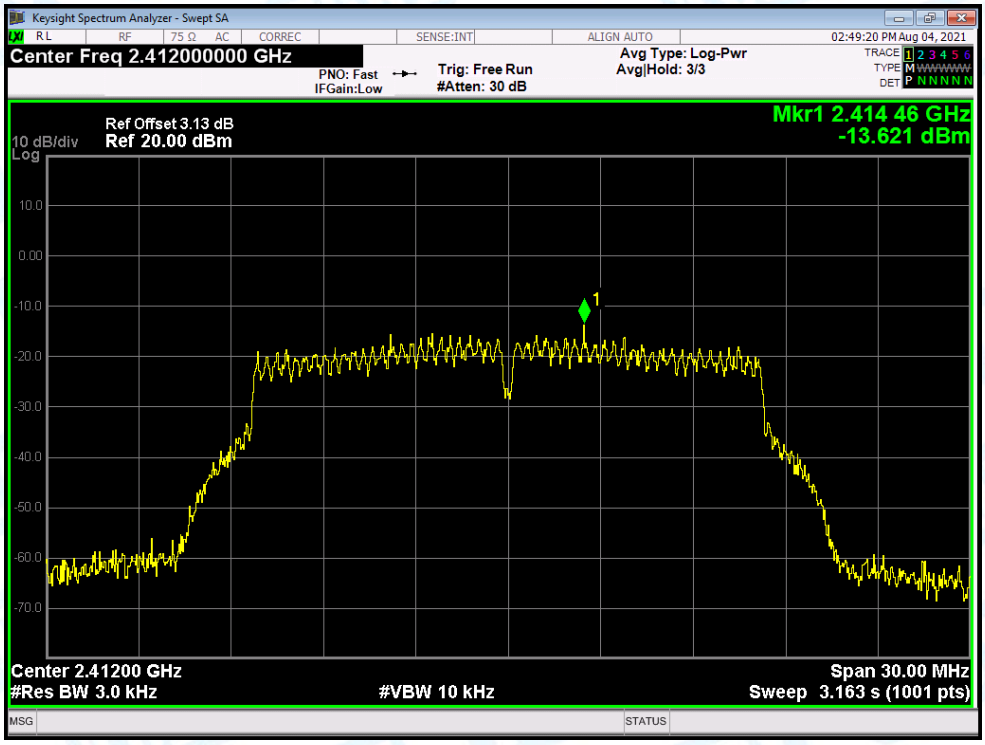
PSD NVNT b 2462MHz Ant2



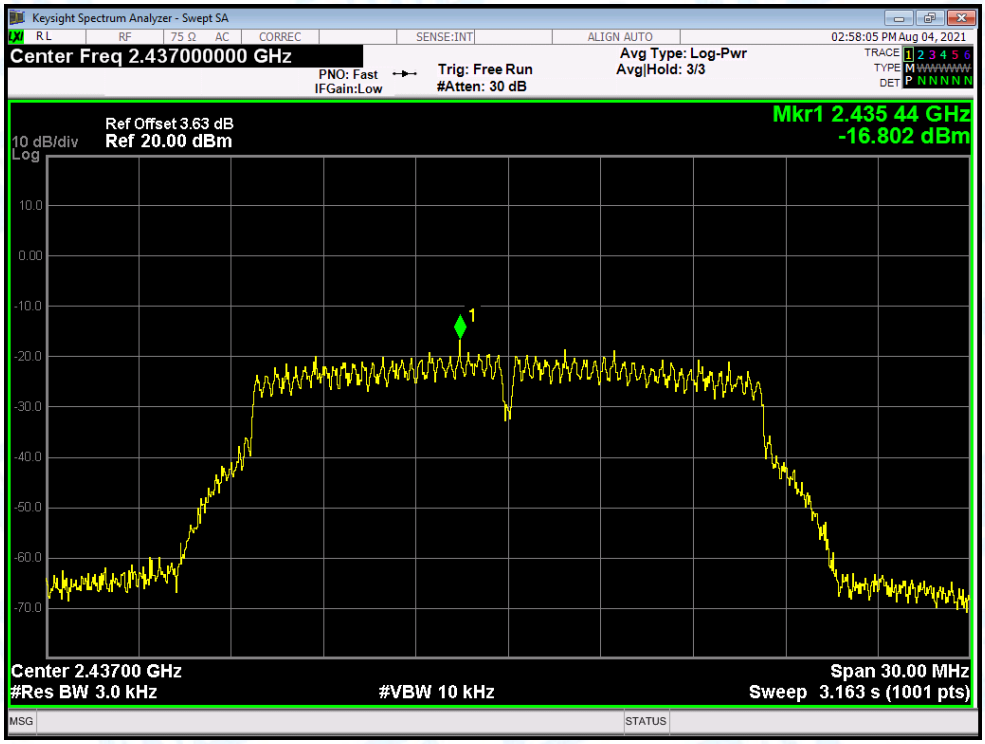
PSD NVNT g 2412MHz Ant1



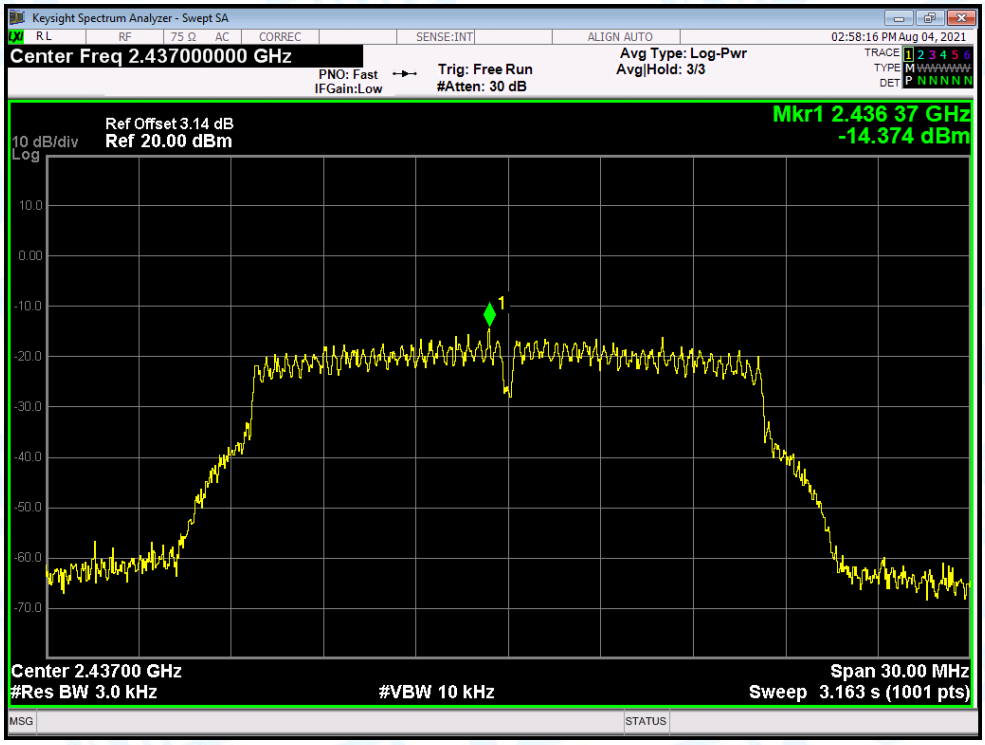
PSD NVNT g 2412MHz Ant2



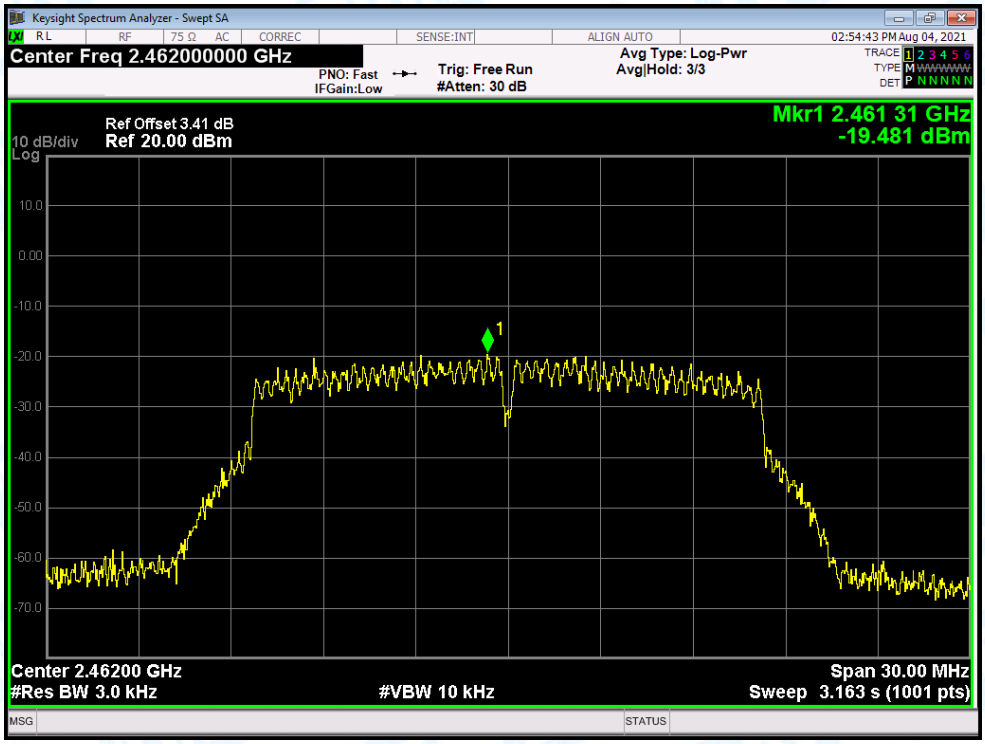
PSD NVNT g 2437MHz Ant1



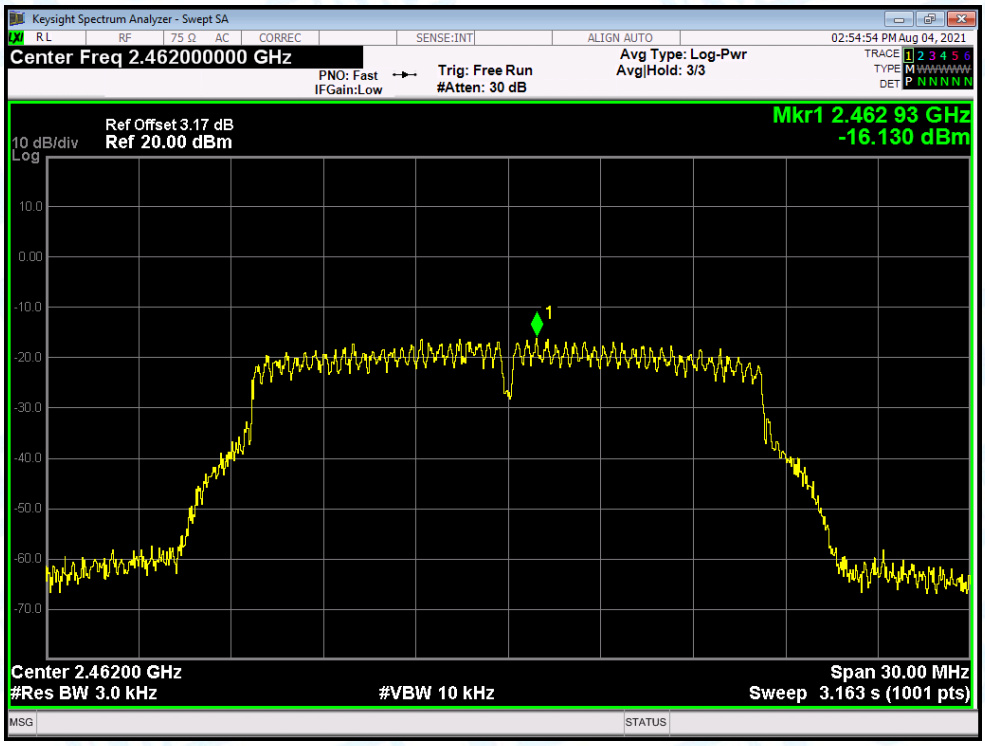
PSD NVNT g 2437MHz Ant2



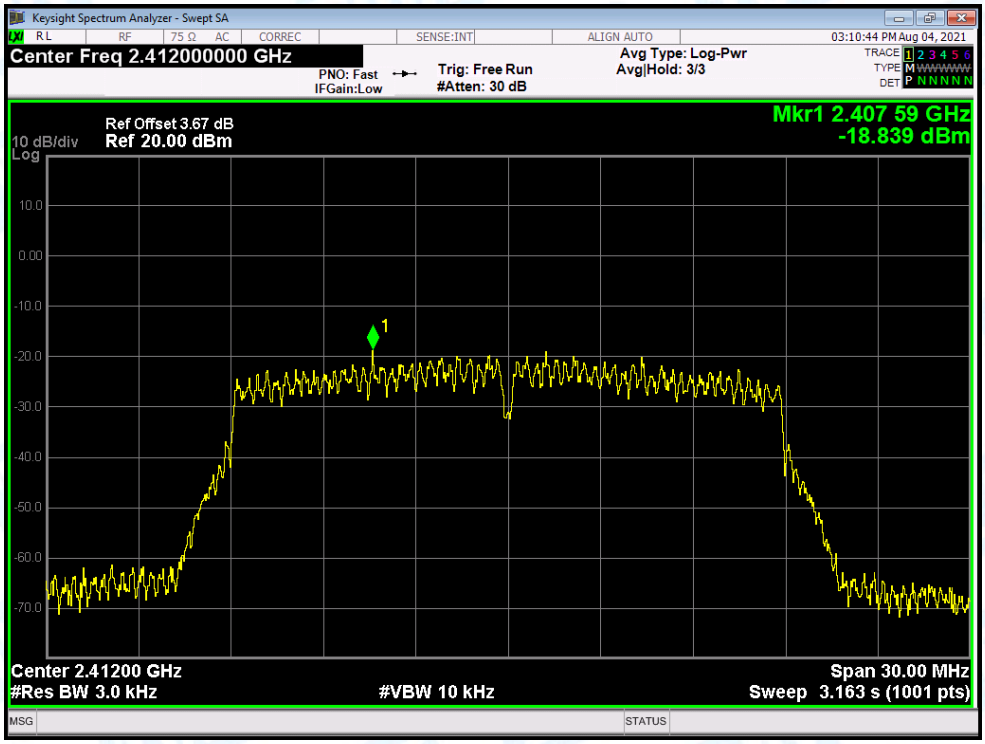
PSD NVNT g 2462MHz Ant1



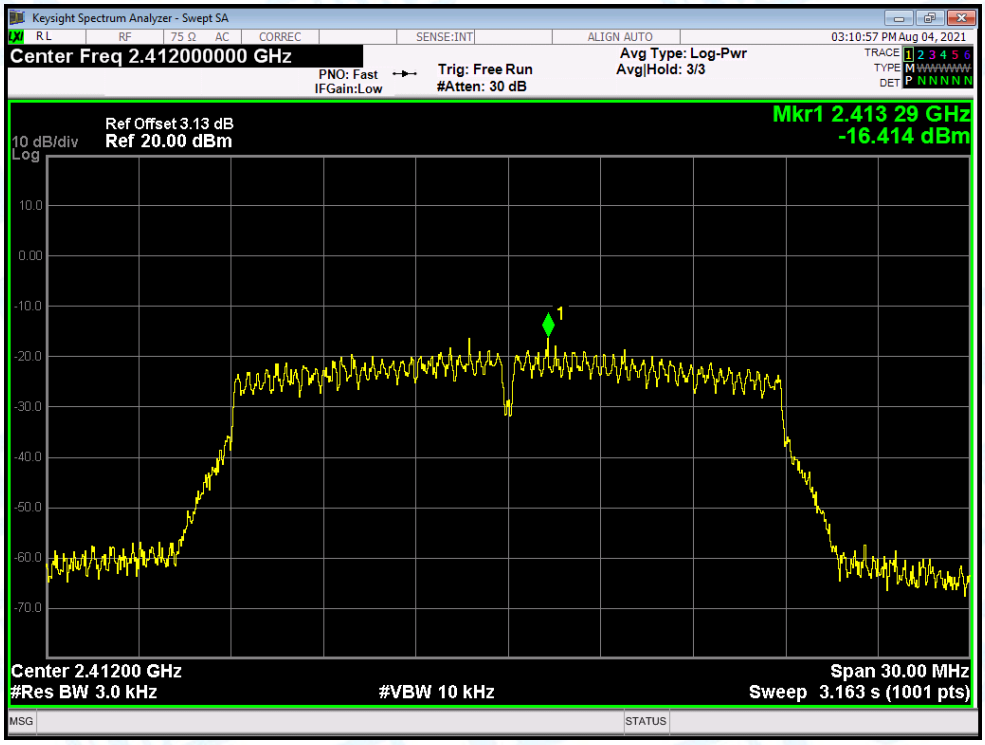
PSD NVNT g 2462MHz Ant2



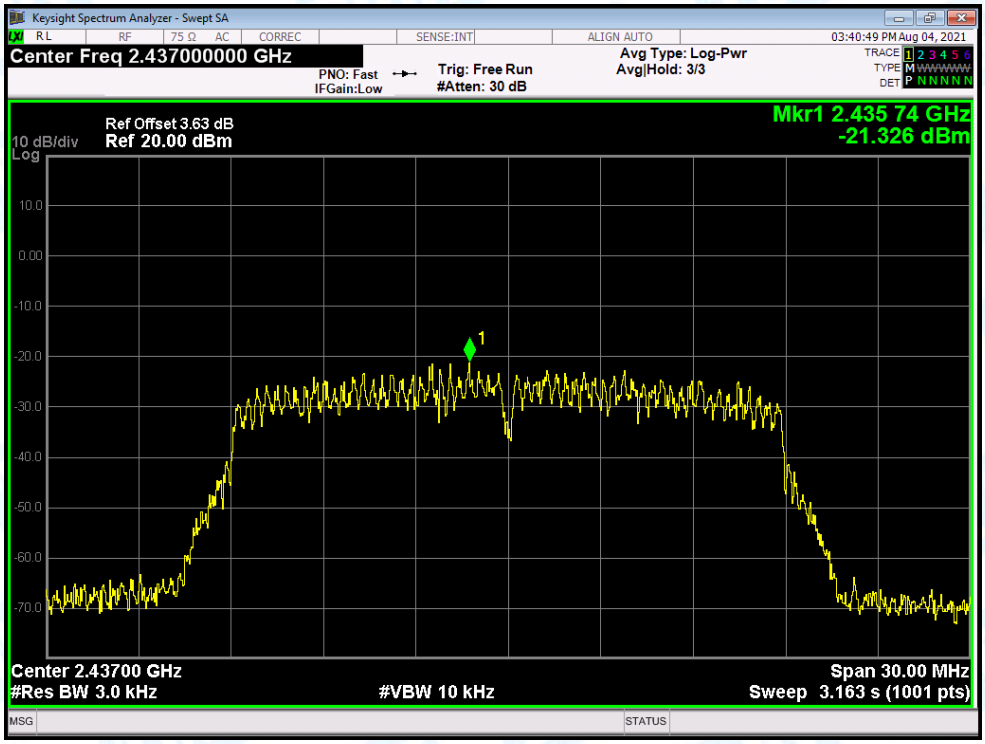
PSD NVNT n(HT20) 2412MHz Ant1



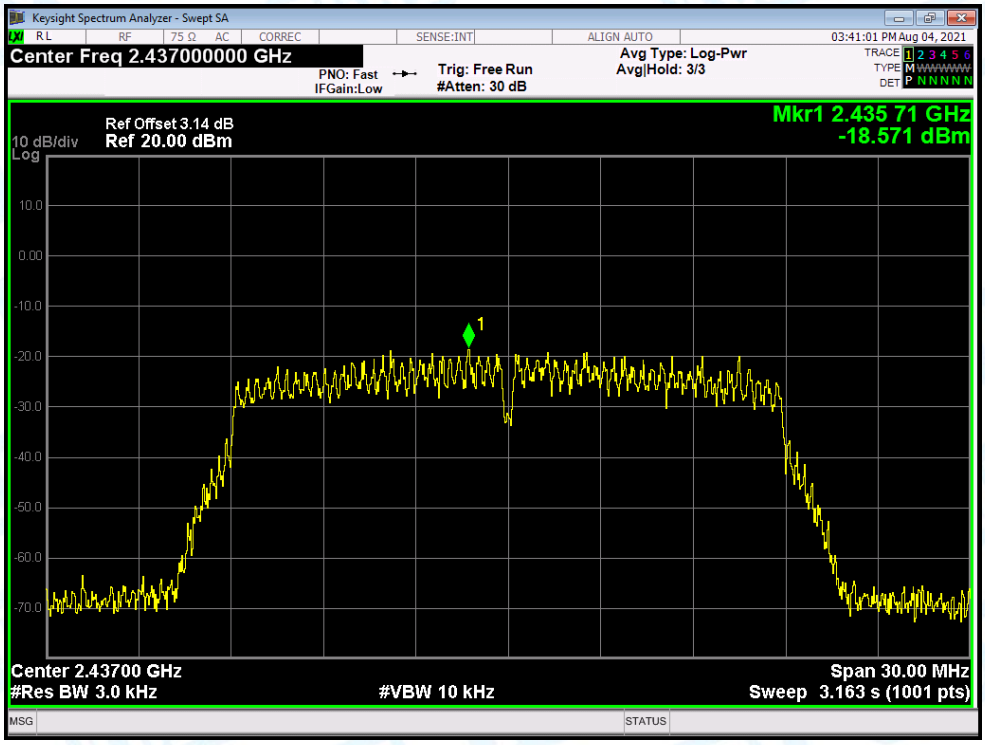
PSD NVNT n(HT20) 2412MHz Ant2



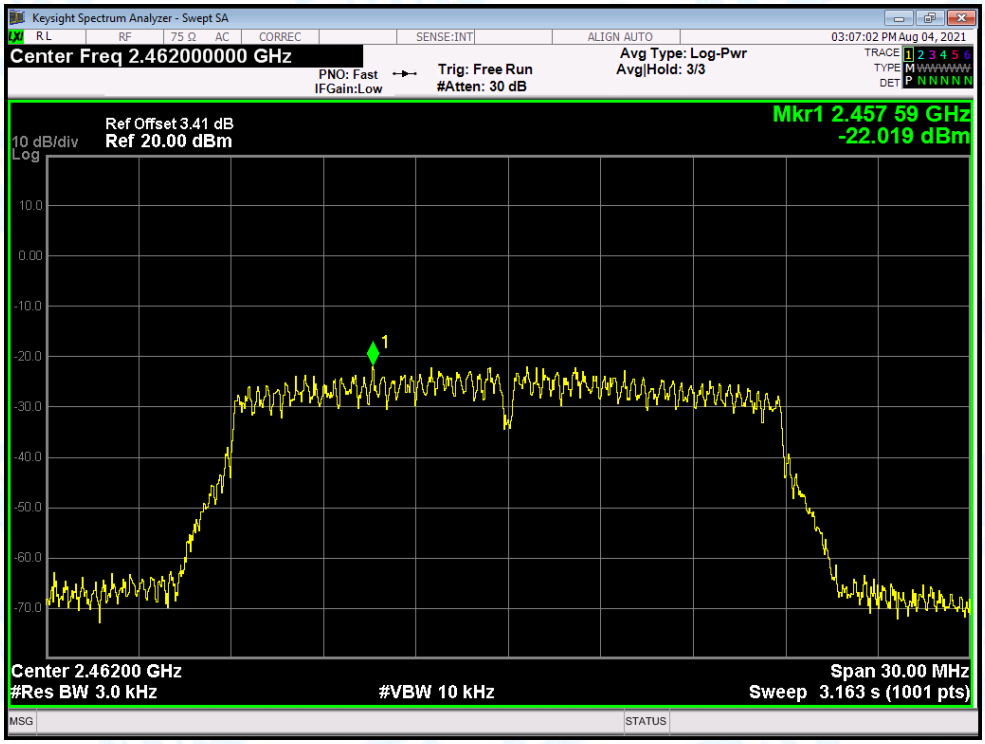
PSD NVNT n(HT20) 2437MHz Ant1



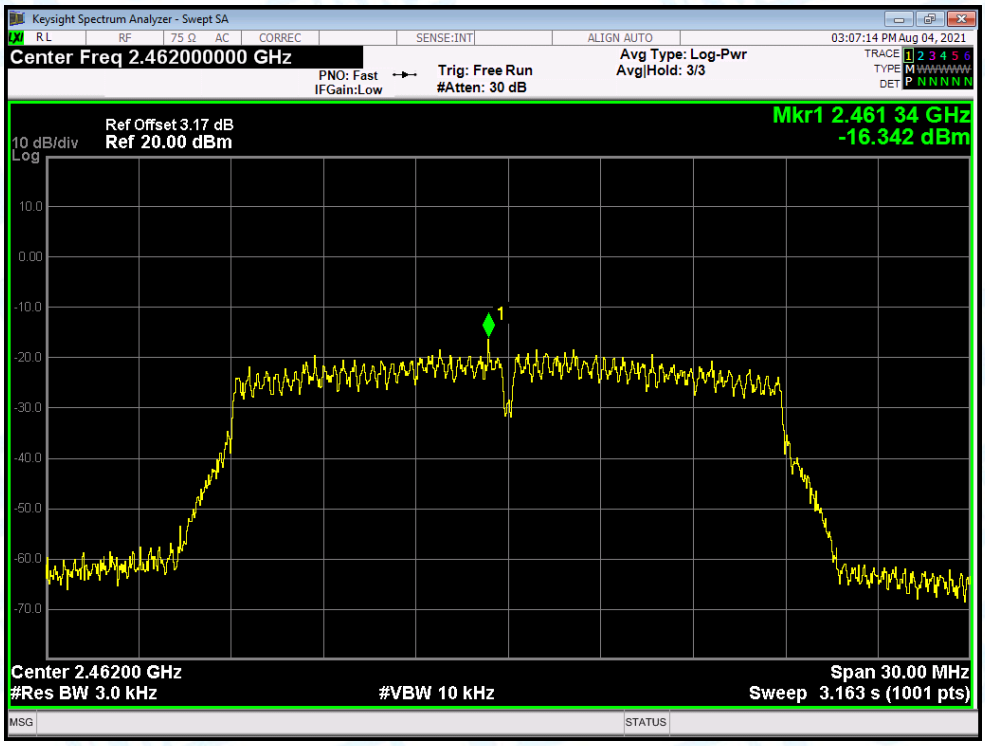
PSD NVNT n(HT20) 2437MHz Ant2



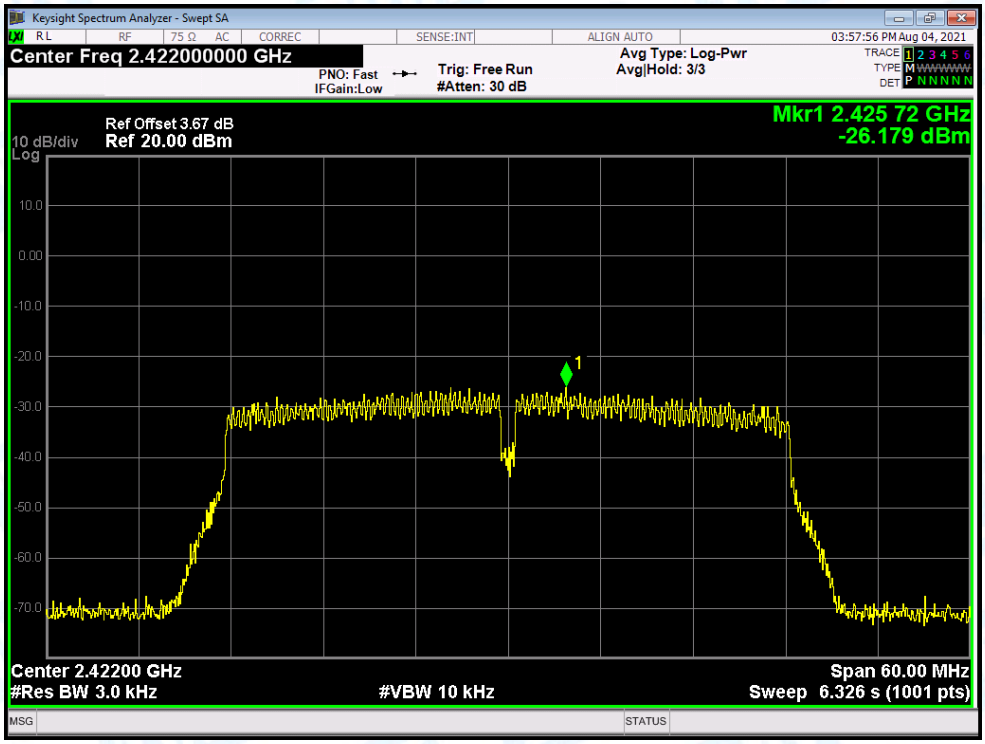
PSD NVNT n(HT20) 2462MHz Ant1



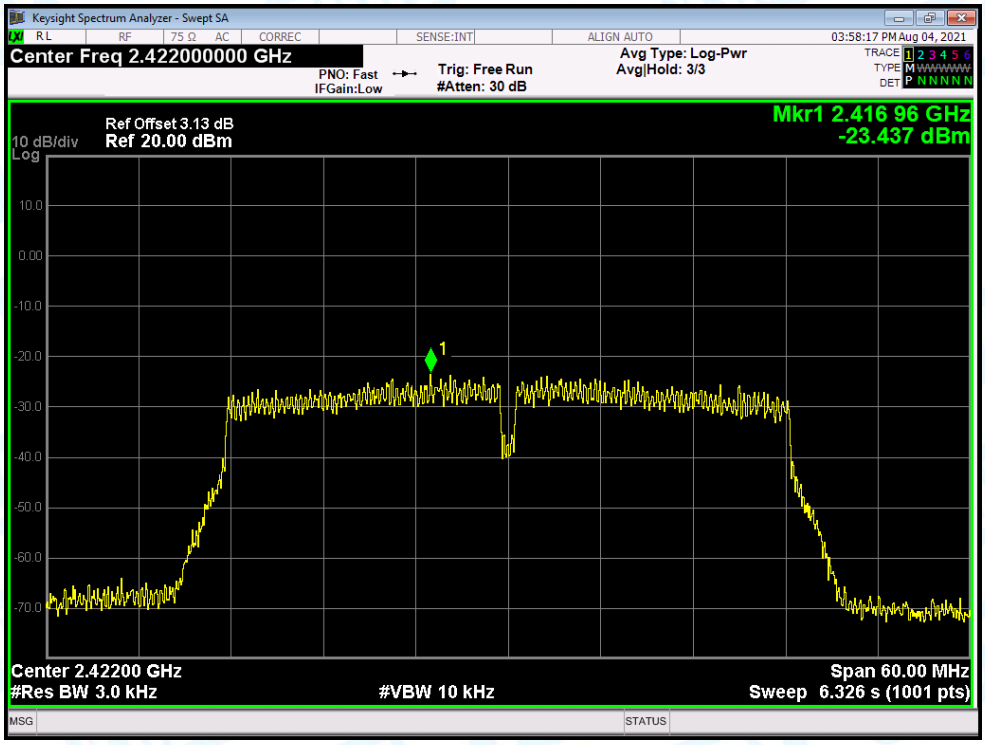
PSD NVNT n(HT20) 2462MHz Ant2



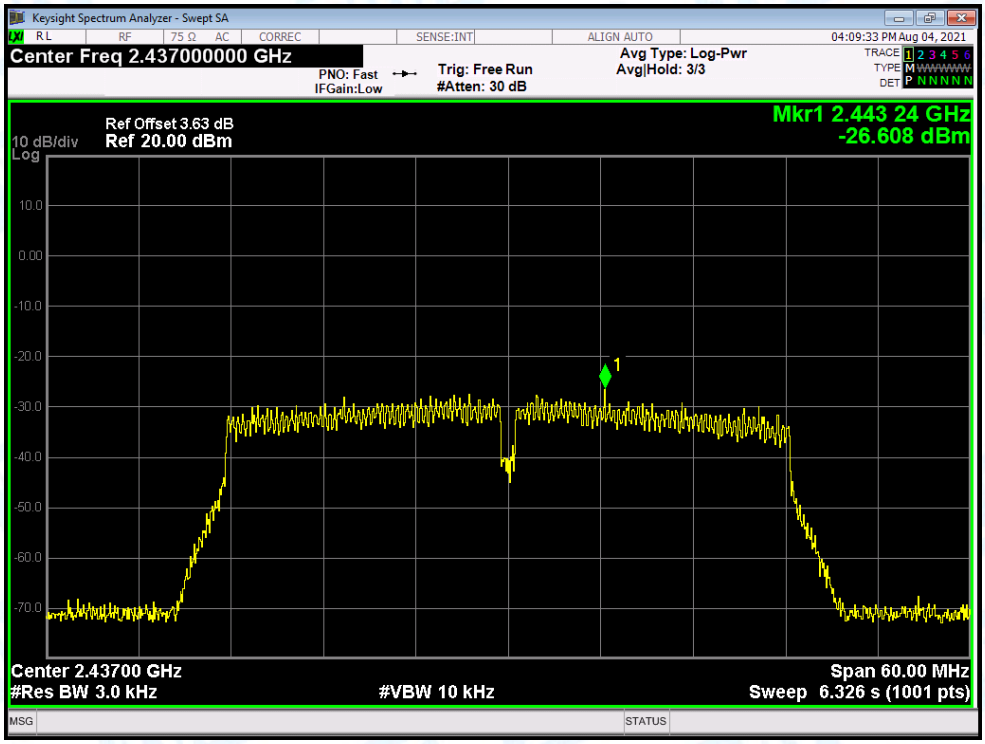
PSD NVNT n(HT40) 2422MHz Ant1



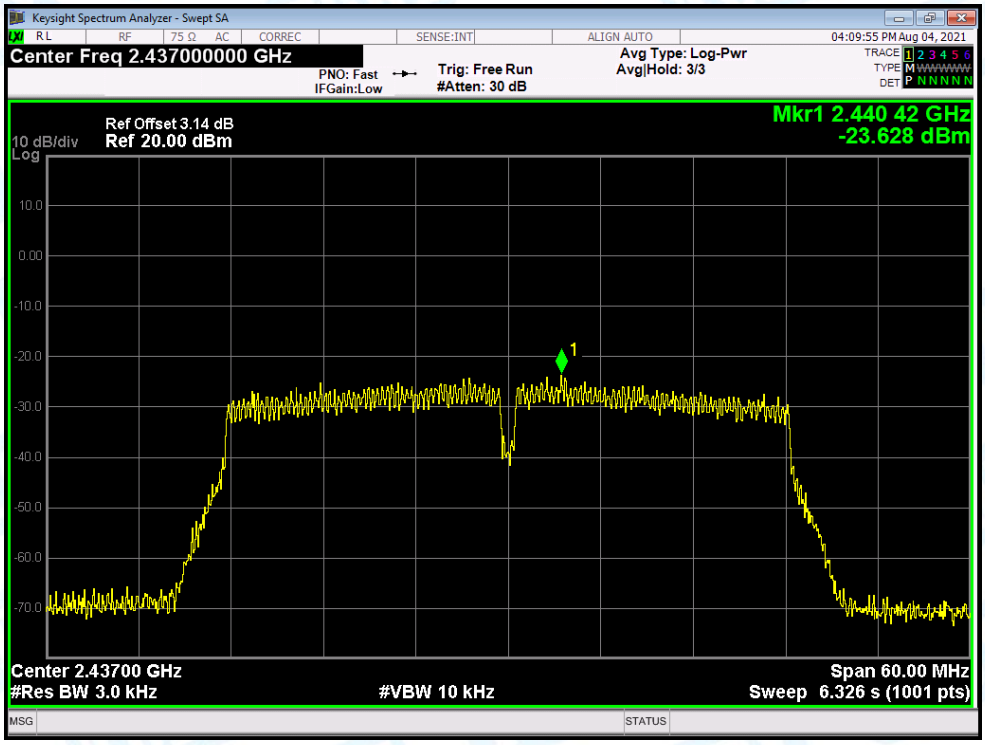
PSD NVNT n(HT40) 2422MHz Ant2



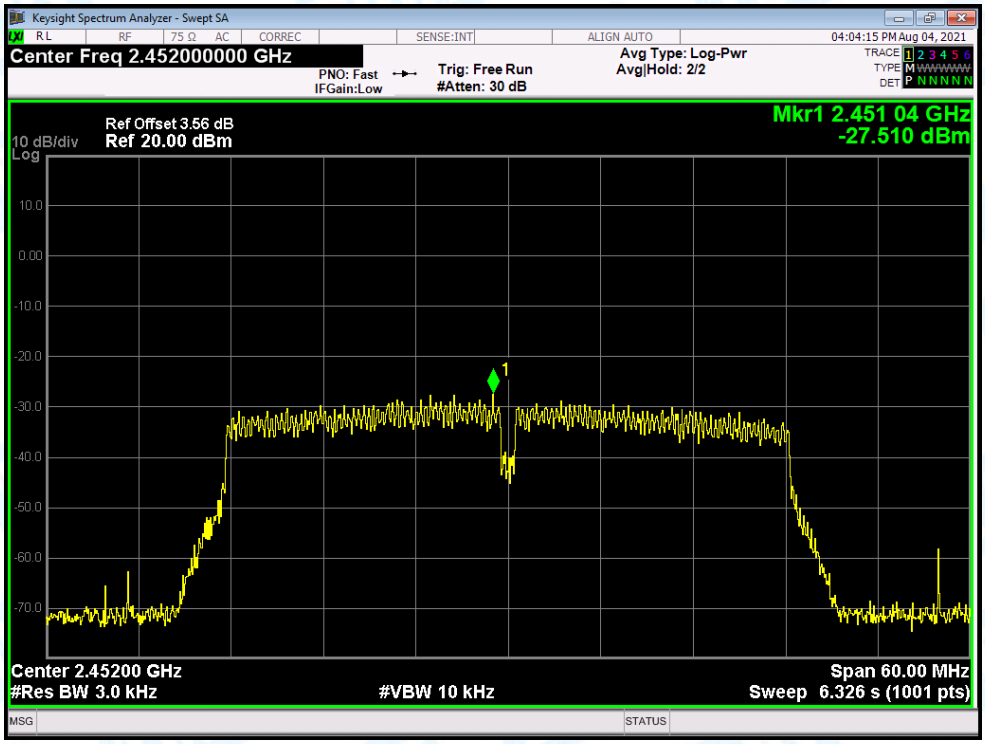
PSD NVNT n(HT40) 2437MHz Ant1



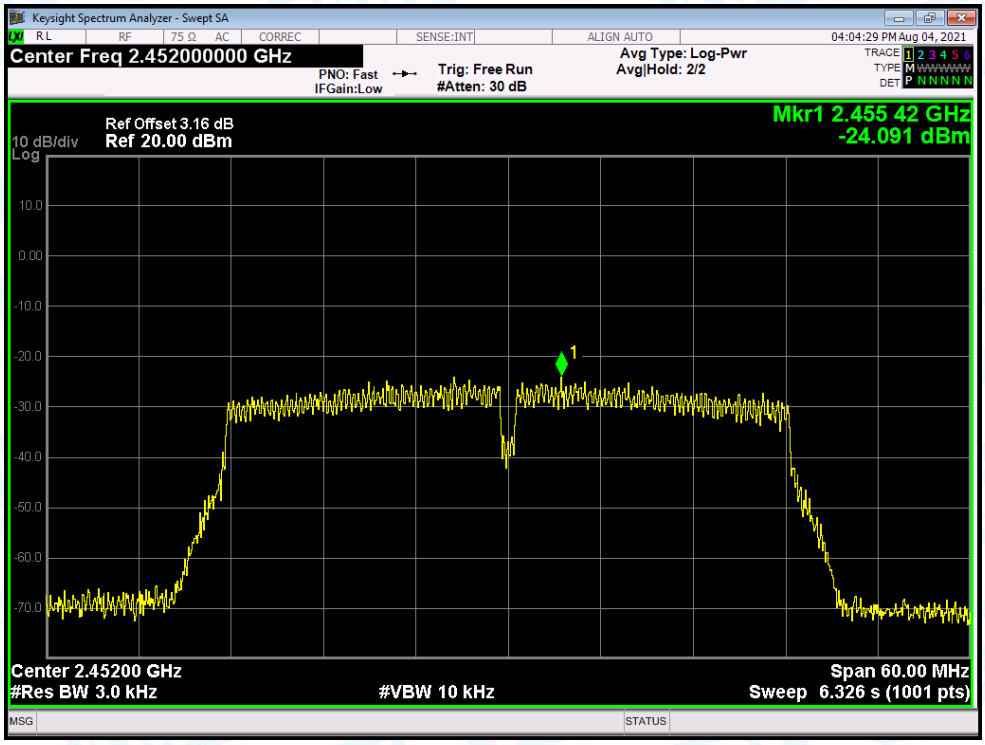
PSD NVNT n(HT40) 2437MHz Ant2



PSD NVNT n(HT40) 2452MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant2

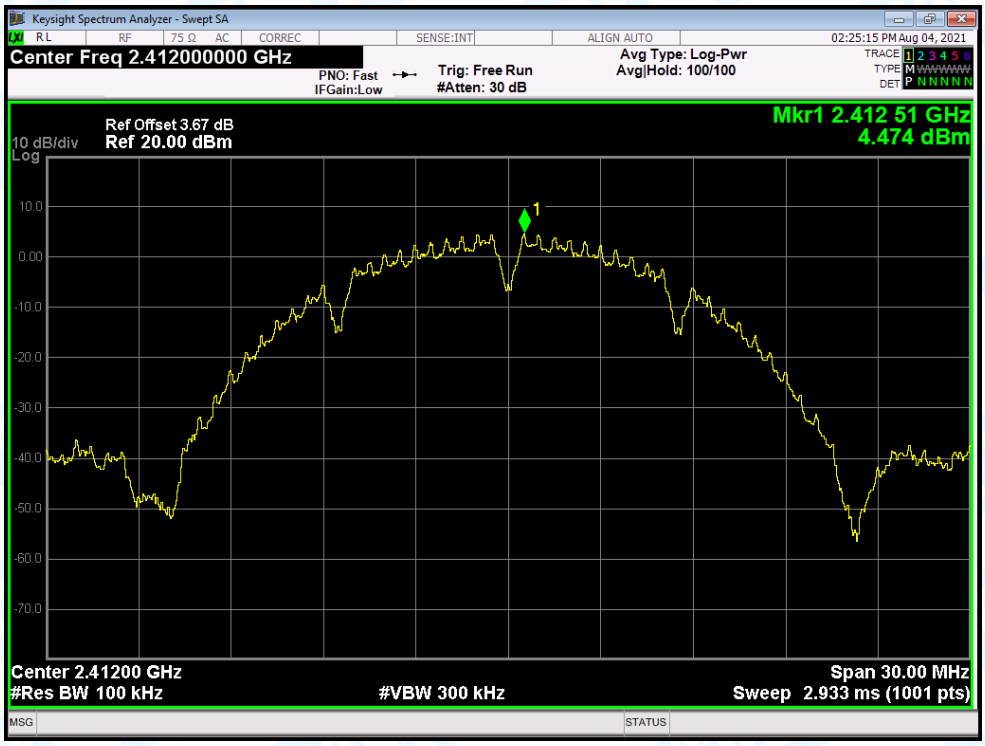


6.Band Edge

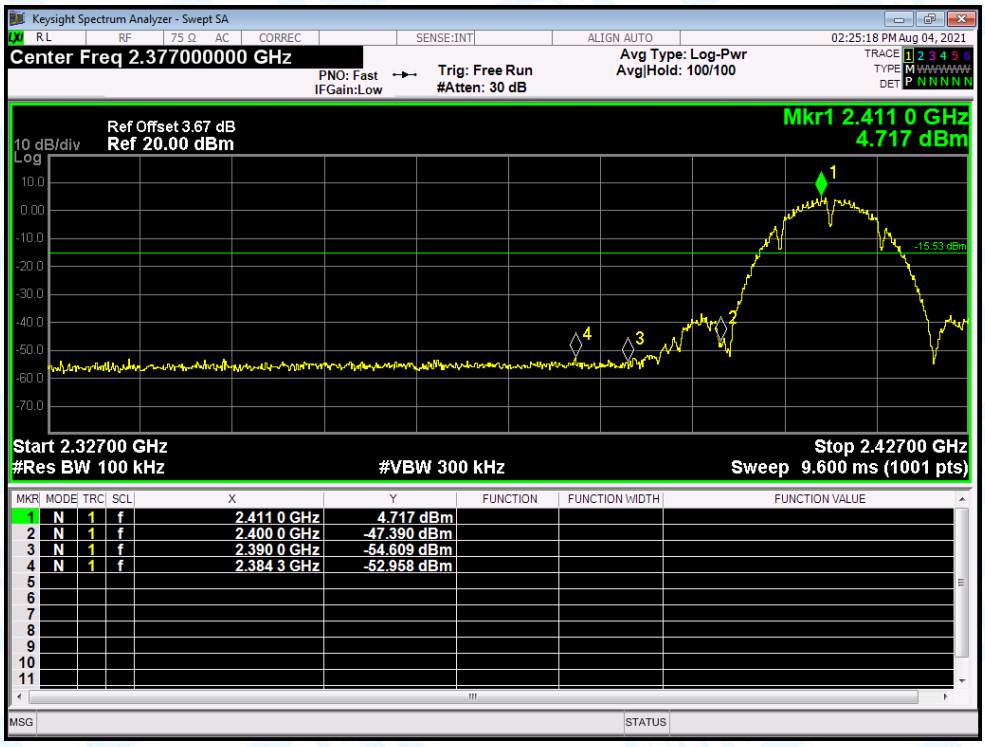
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-57.42	-20	Pass
NVNT	b	2412	Ant2	-60.88	-20	Pass
NVNT	b	2462	Ant1	-55.57	-20	Pass
NVNT	b	2462	Ant2	-59.81	-20	Pass
NVNT	g	2412	Ant1	-49.54	-20	Pass
NVNT	g	2412	Ant2	-52.96	-20	Pass
NVNT	g	2462	Ant1	-49.43	-20	Pass
NVNT	g	2462	Ant2	-52.85	-20	Pass
NVNT	n(HT20)	2412	Ant1	-49.92	-20	Pass
NVNT	n(HT20)	2412	Ant2	-51.11	-20	Pass
NVNT	n(HT20)	2462	Ant1	-46.58	-20	Pass
NVNT	n(HT20)	2462	Ant2	-50.67	-20	Pass
NVNT	n(HT40)	2422	Ant1	-42.35	-20	Pass
NVNT	n(HT40)	2422	Ant2	-42.52	-20	Pass
NVNT	n(HT40)	2452	Ant1	-41.4	-20	Pass
NVNT	n(HT40)	2452	Ant2	-45.15	-20	Pass

Test Graphs

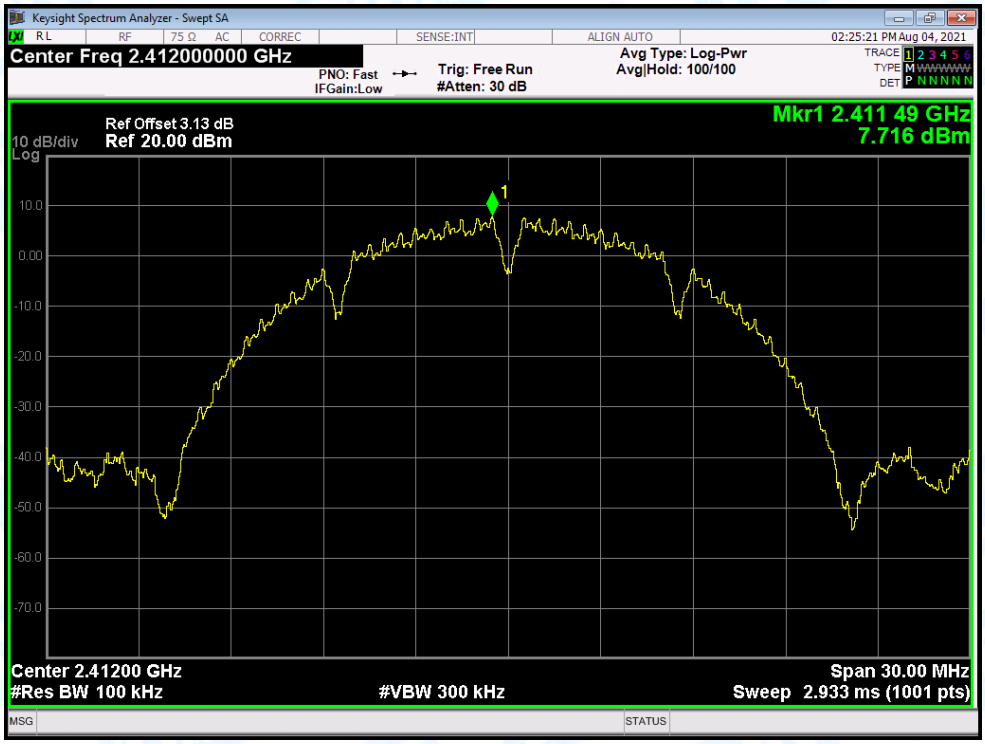
Band Edge NVNT b 2412MHz Ant1 Ref



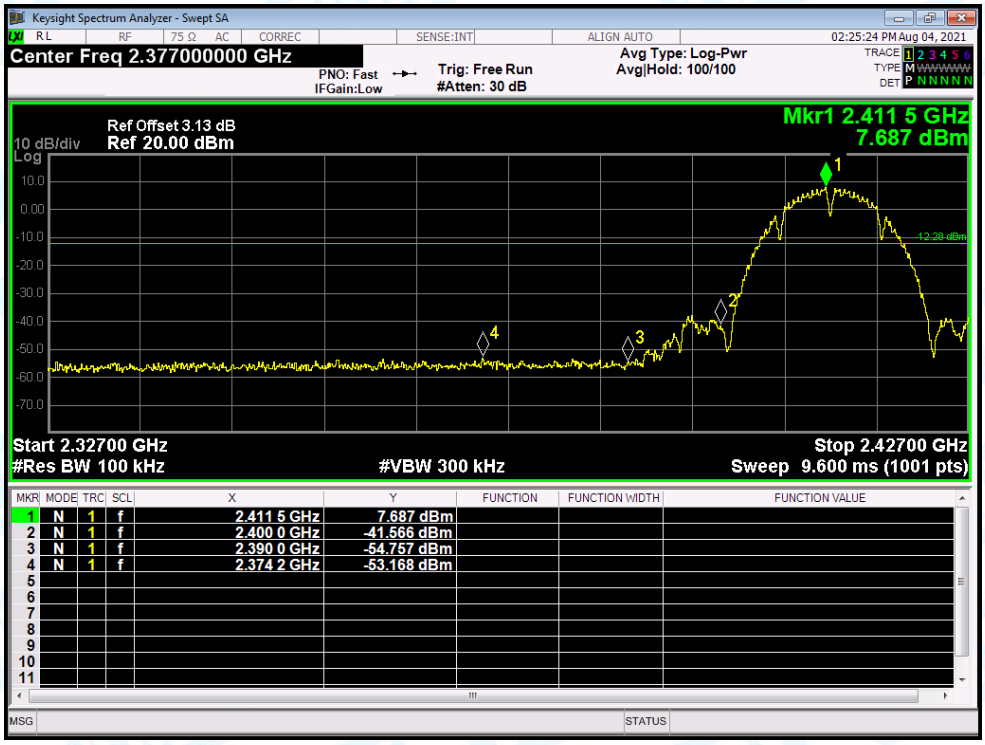
Band Edge NVNT b 2412MHz Ant1 Emission



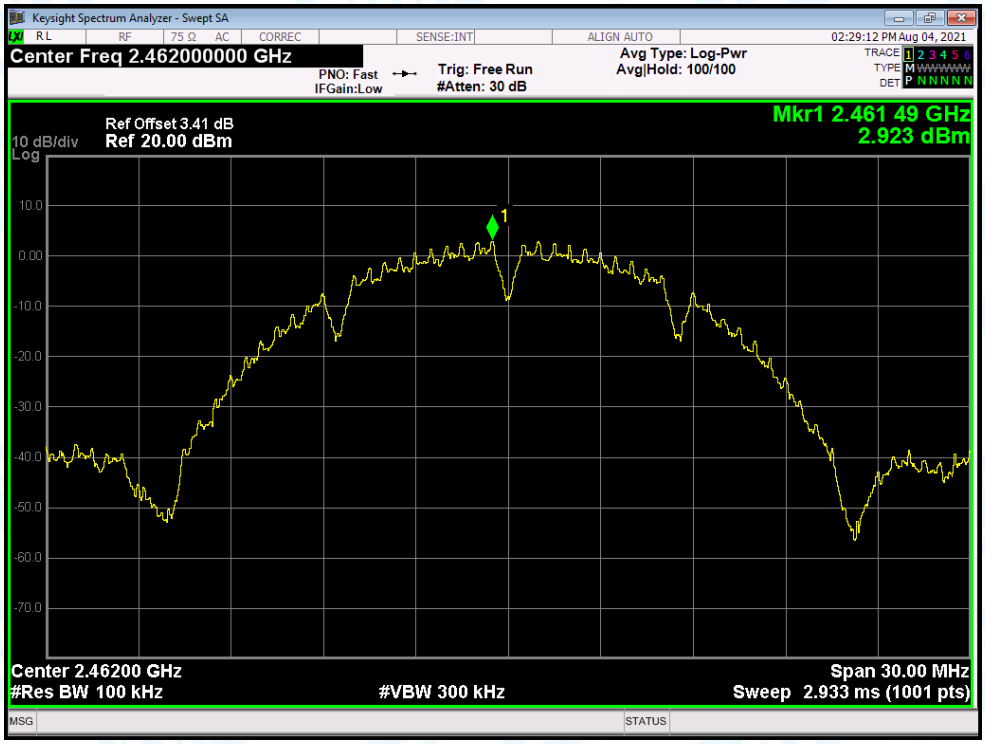
Band Edge NVNT b 2412MHz Ant2 Ref



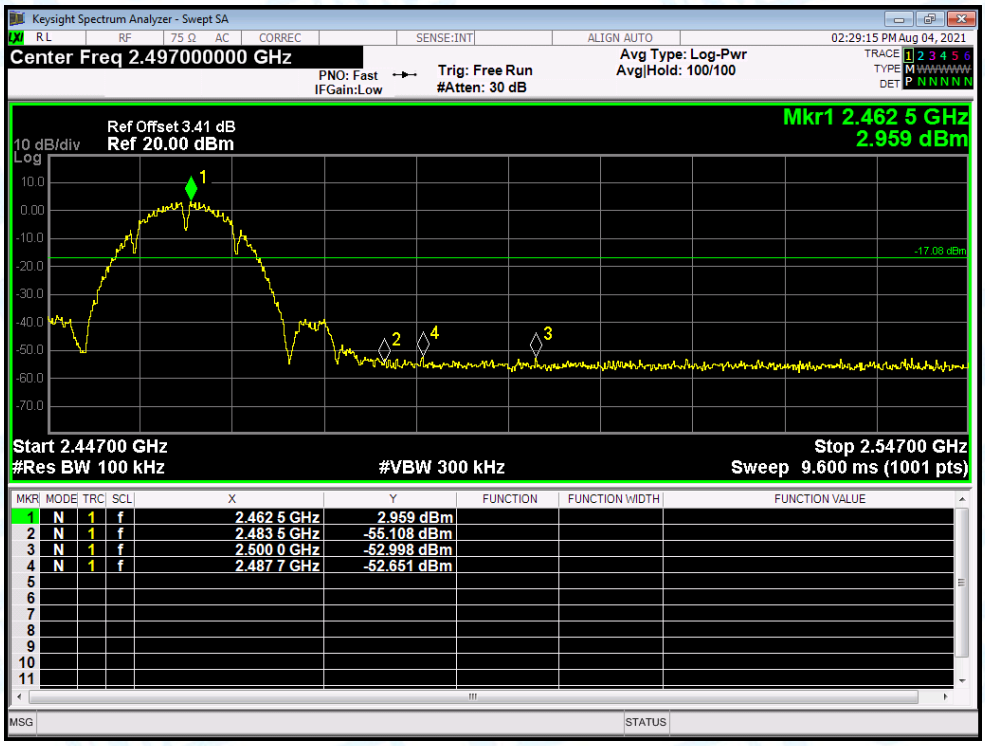
Band Edge NVNT b 2412MHz Ant2 Emission



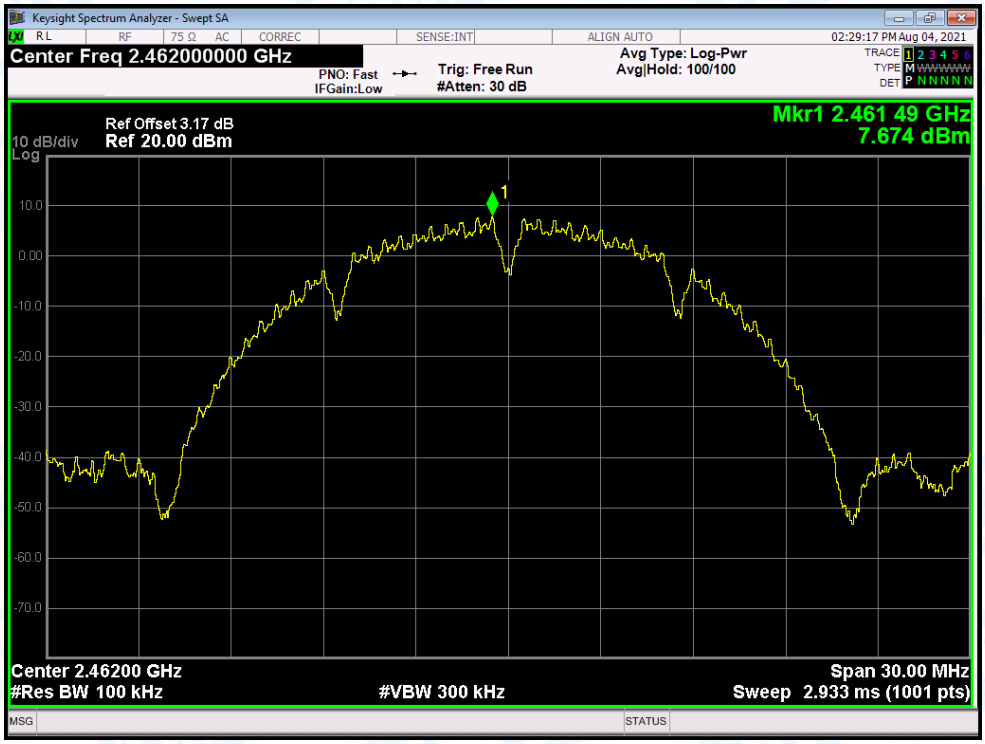
Band Edge NVNT b 2462MHz Ant1 Ref



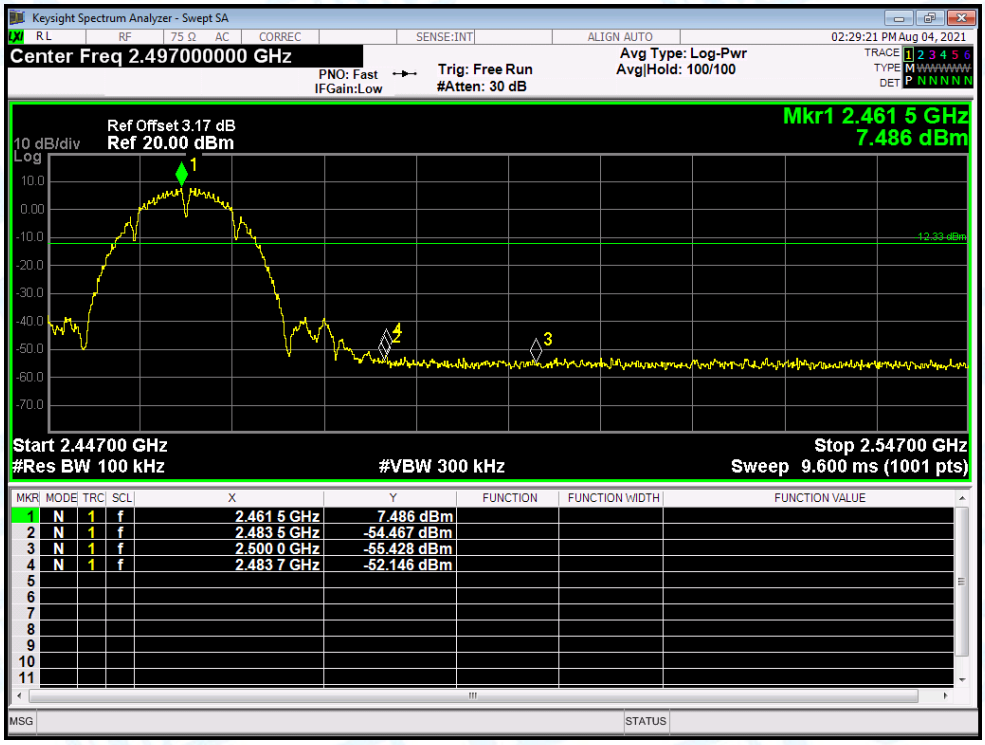
Band Edge NVNT b 2462MHz Ant1 Emission



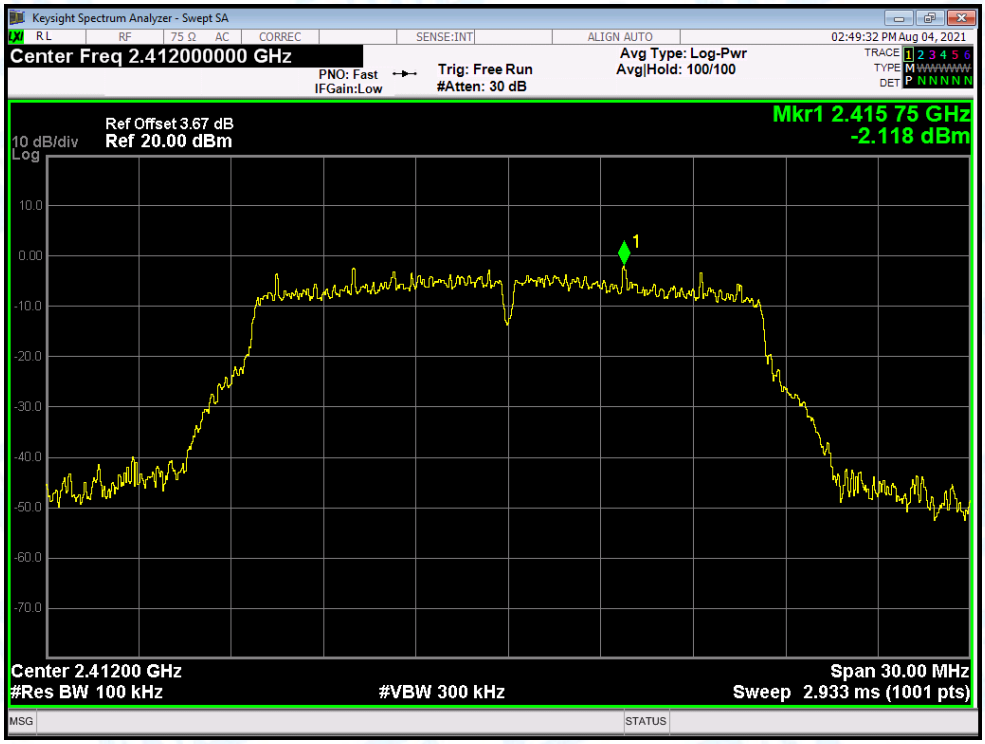
Band Edge NVNT b 2462MHz Ant2 Ref



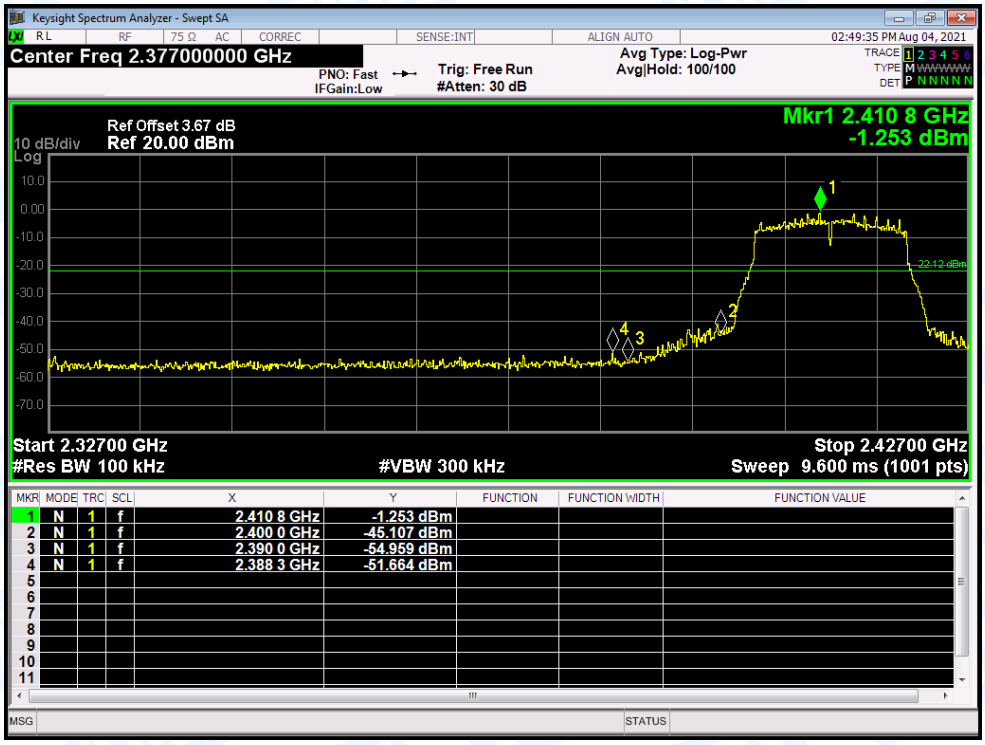
Band Edge NVNT b 2462MHz Ant2 Emission



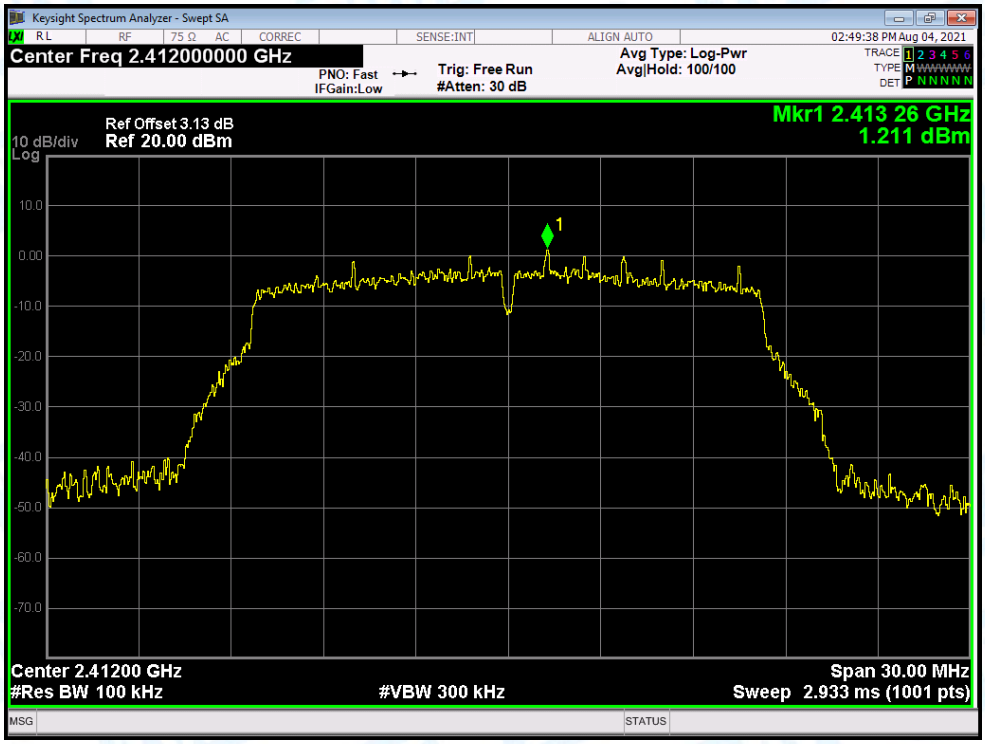
Band Edge NVNT g 2412MHz Ant1 Ref



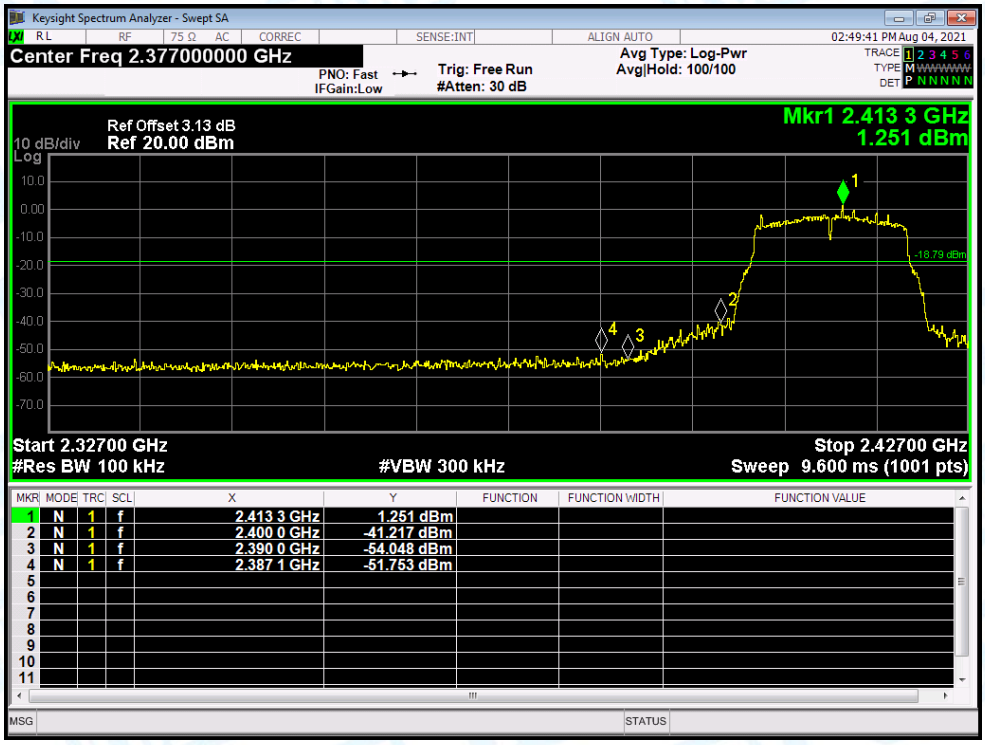
Band Edge NVNT g 2412MHz Ant1 Emission



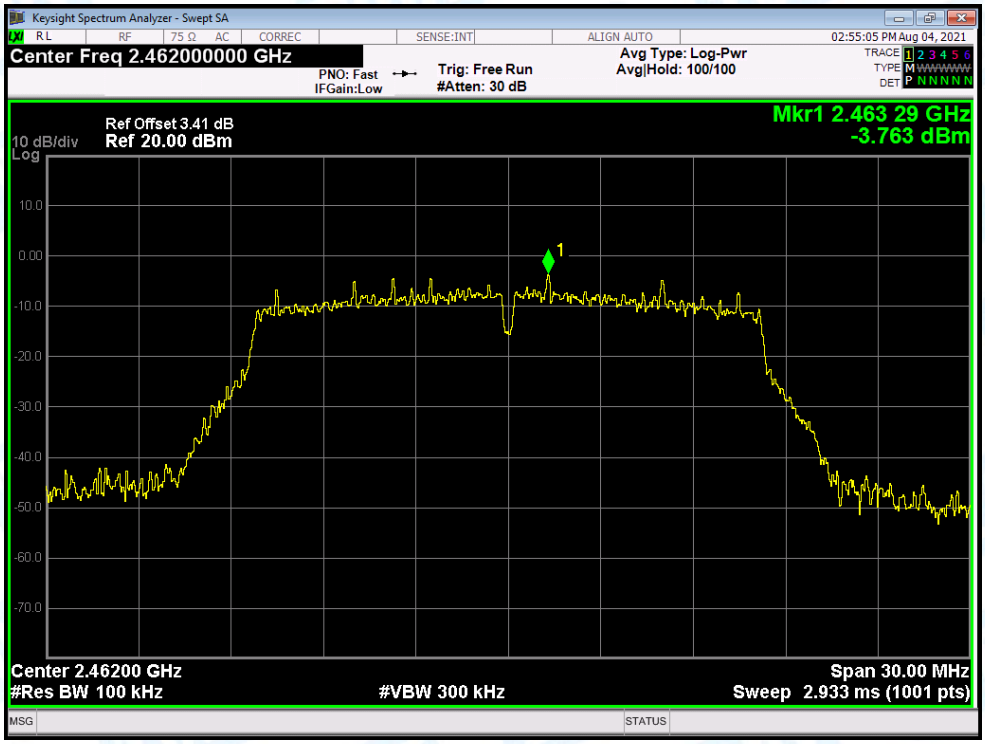
Band Edge NVNT g 2412MHz Ant2 Ref



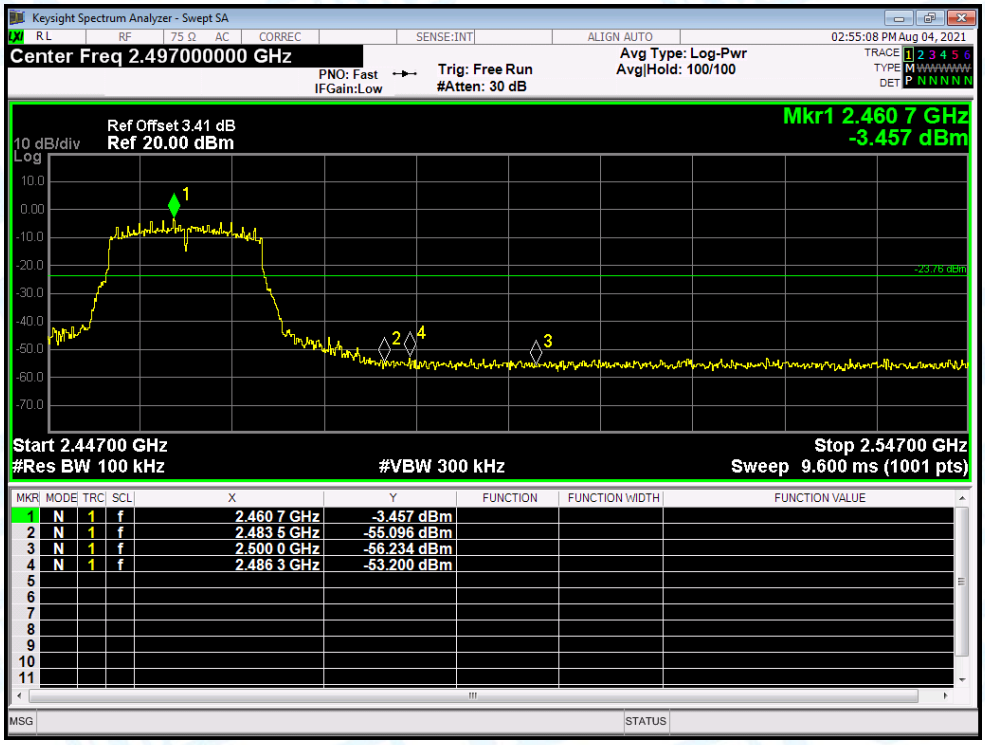
Band Edge NVNT g 2412MHz Ant2 Emission



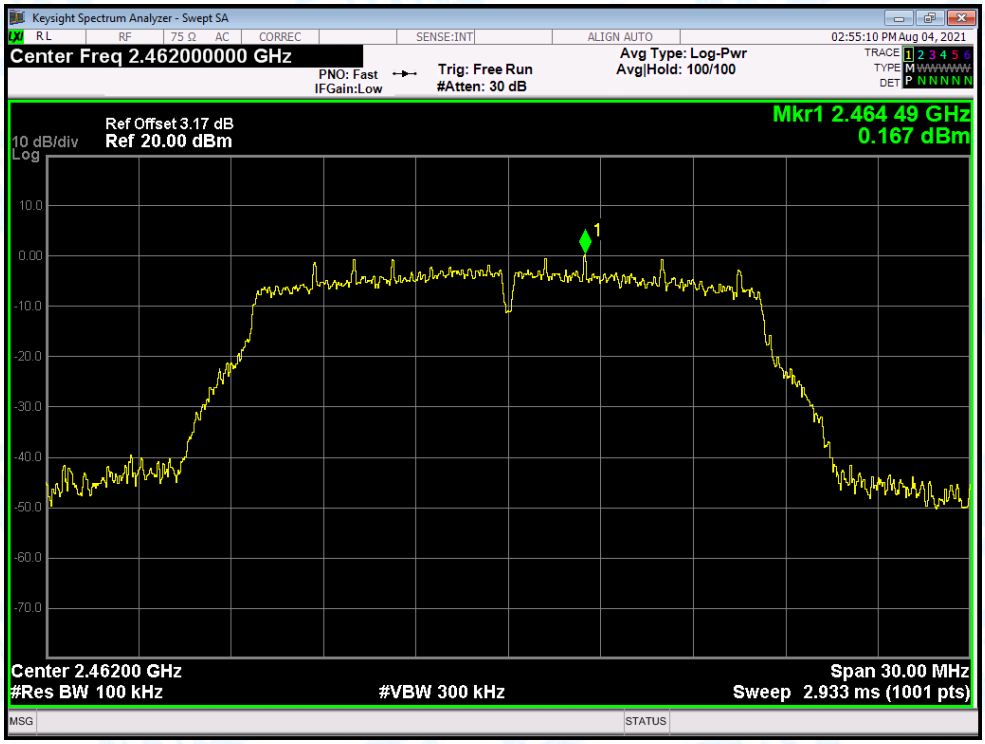
Band Edge NVNT g 2462MHz Ant1 Ref



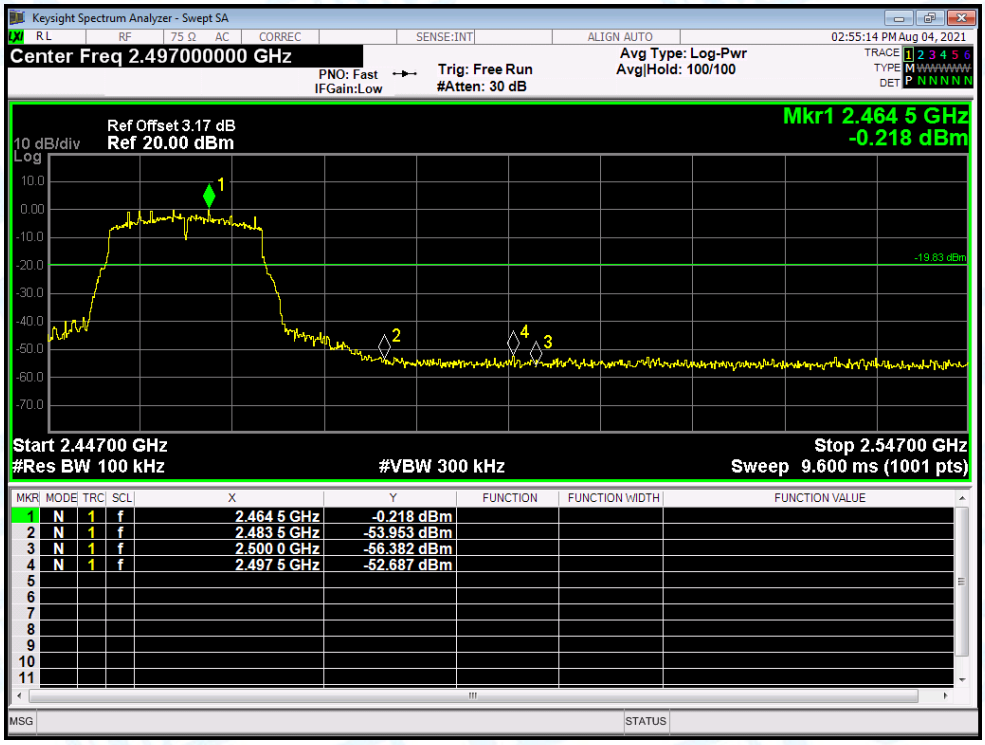
Band Edge NVNT g 2462MHz Ant1 Emission



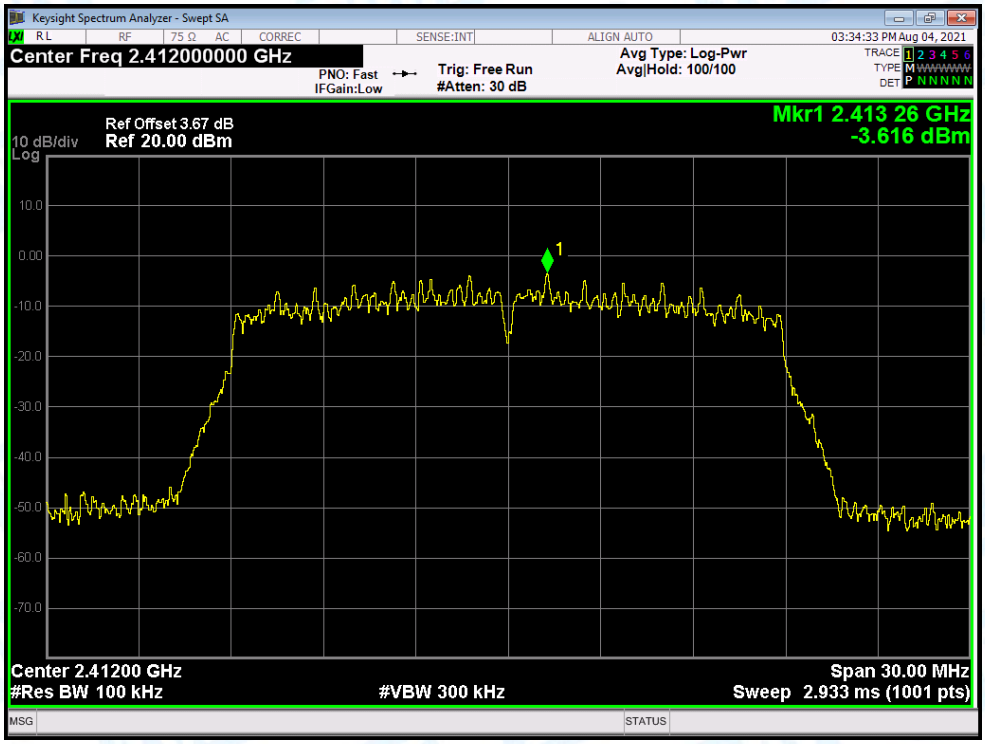
Band Edge NVNT g 2462MHz Ant2 Ref



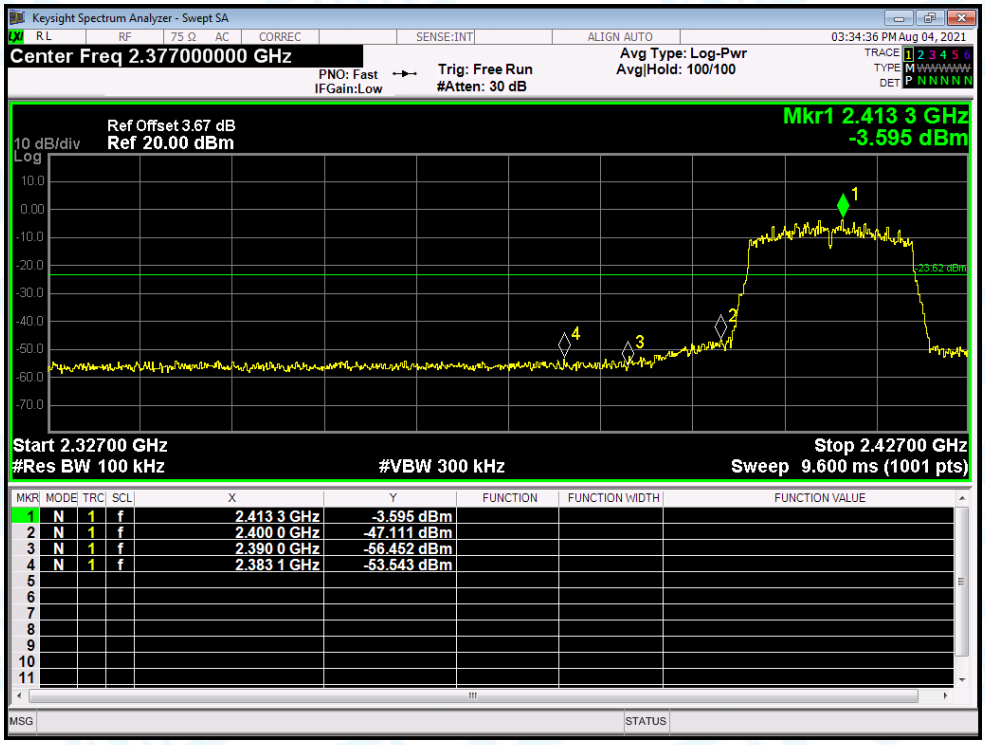
Band Edge NVNT g 2462MHz Ant2 Emission



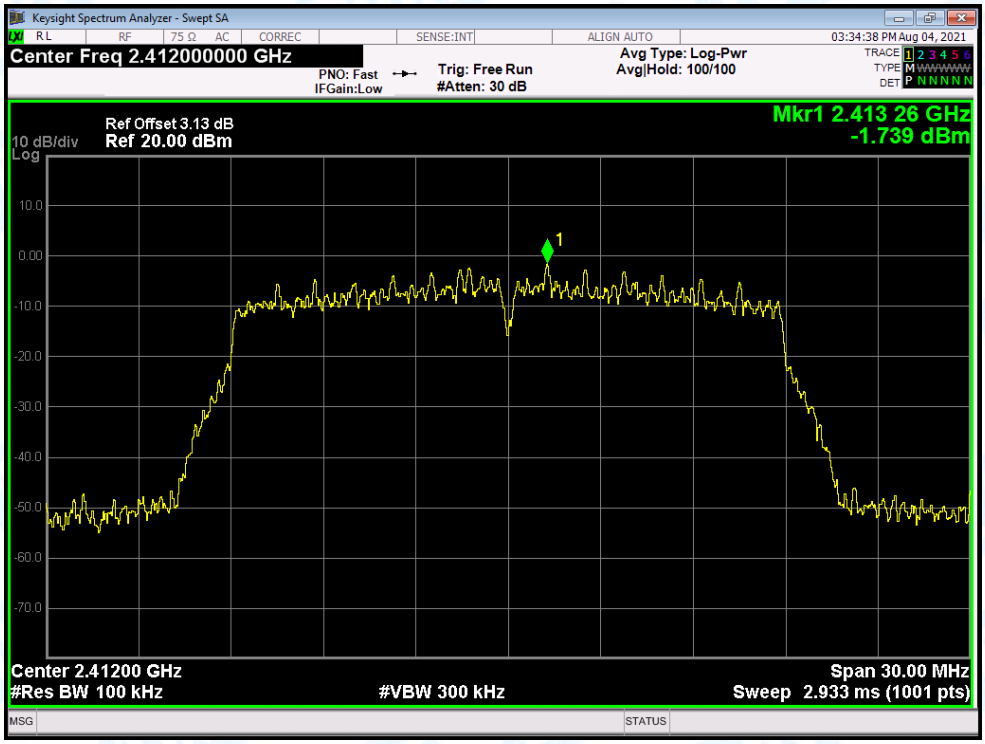
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



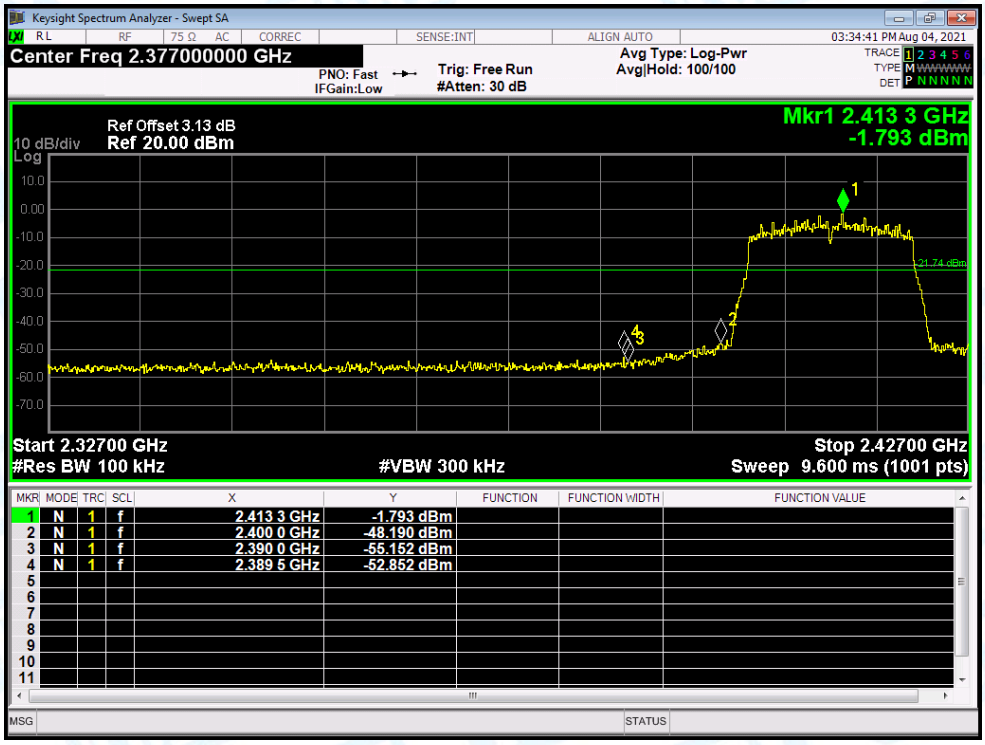
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



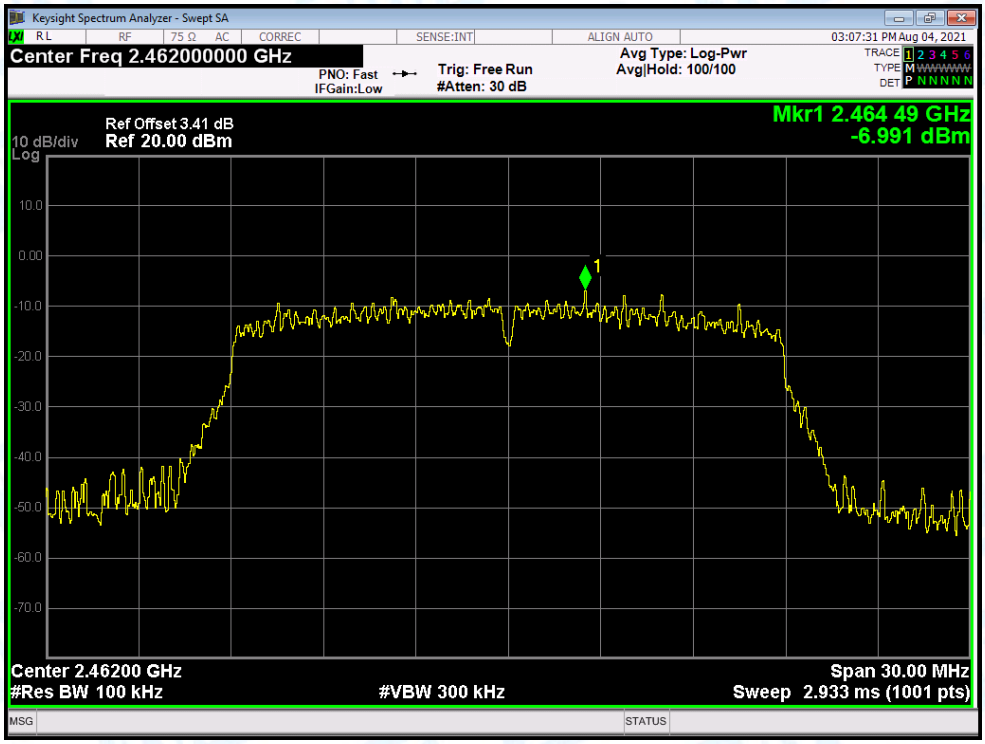
Band Edge NVNT n(HT20) 2412MHz Ant2 Ref



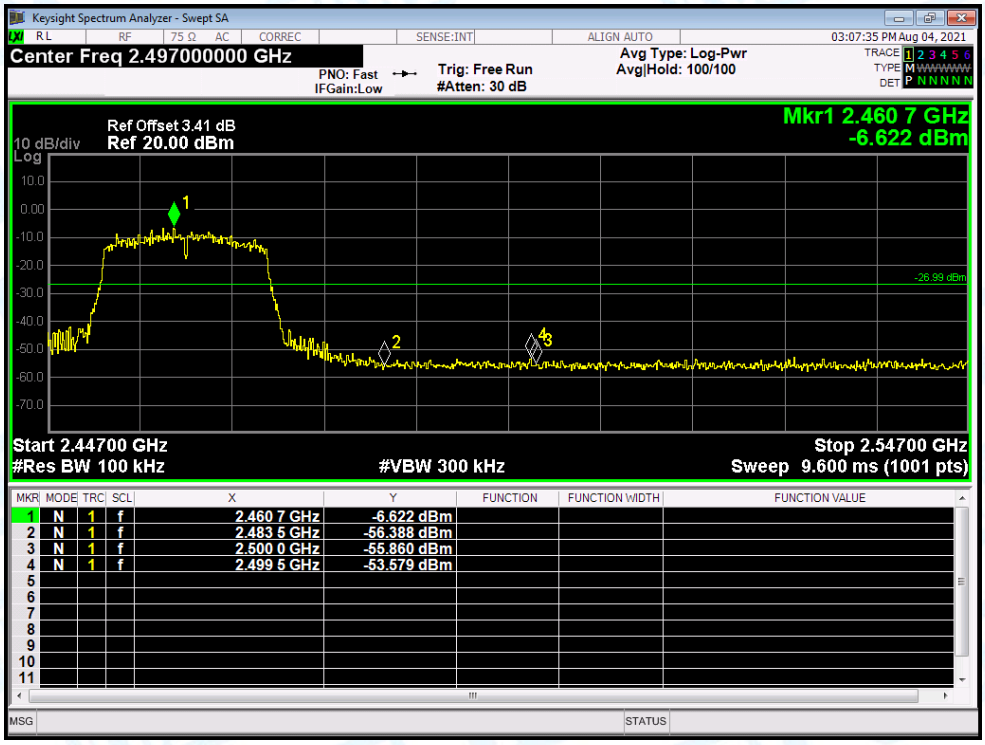
Band Edge NVNT n(HT20) 2412MHz Ant2 Emission



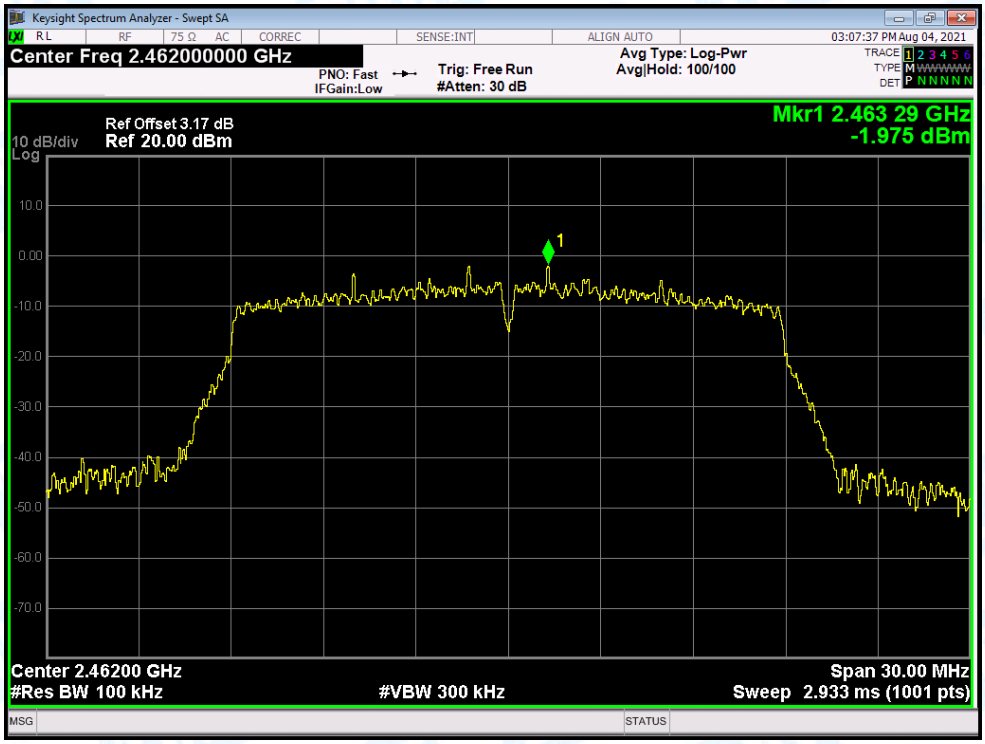
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



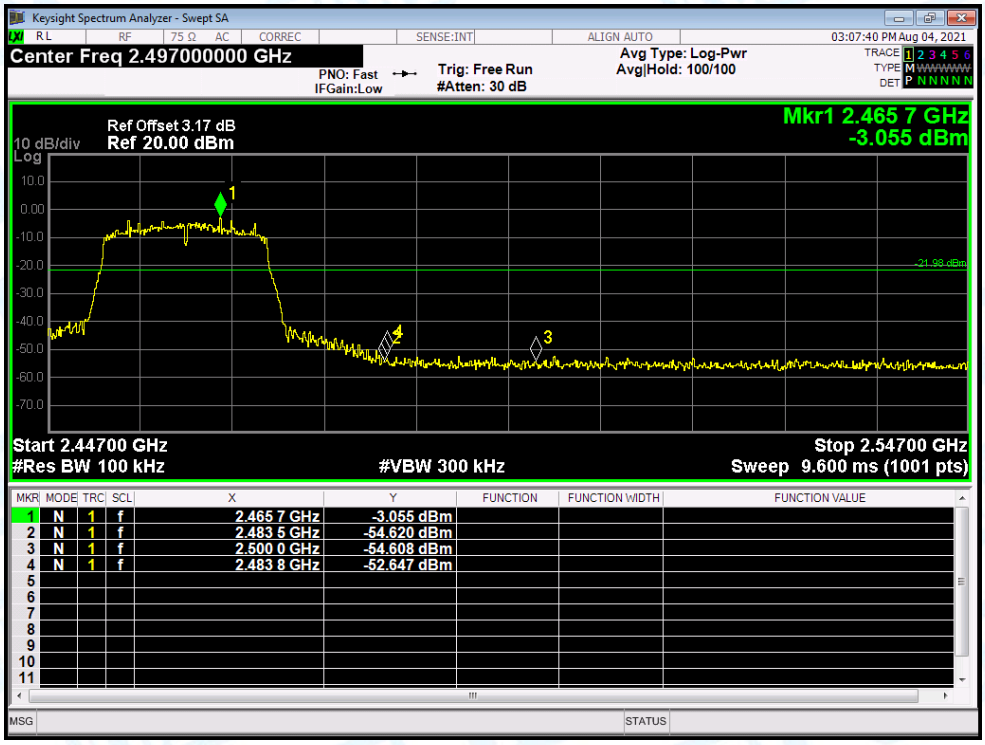
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



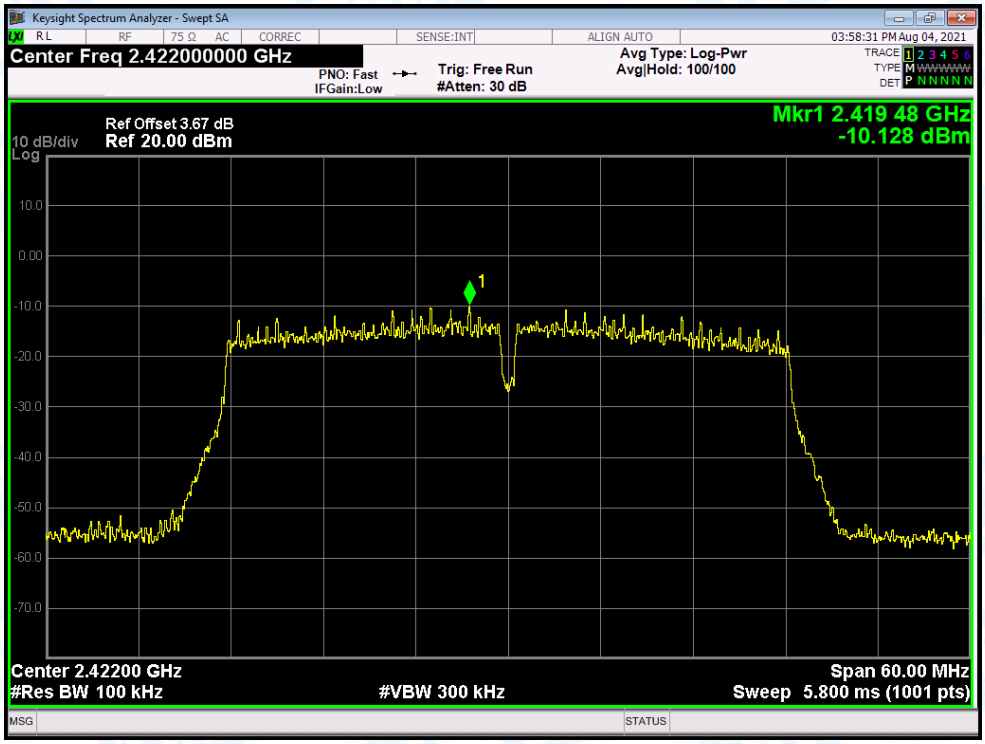
Band Edge NVNT n(HT20) 2462MHz Ant2 Ref



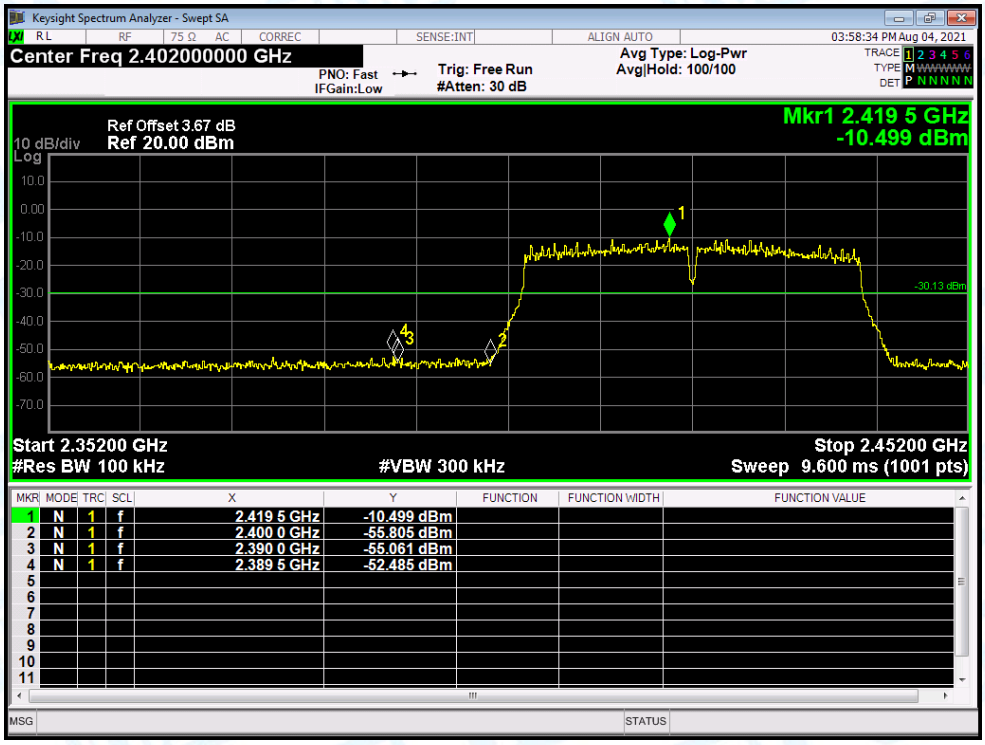
Band Edge NVNT n(HT20) 2462MHz Ant2 Emission



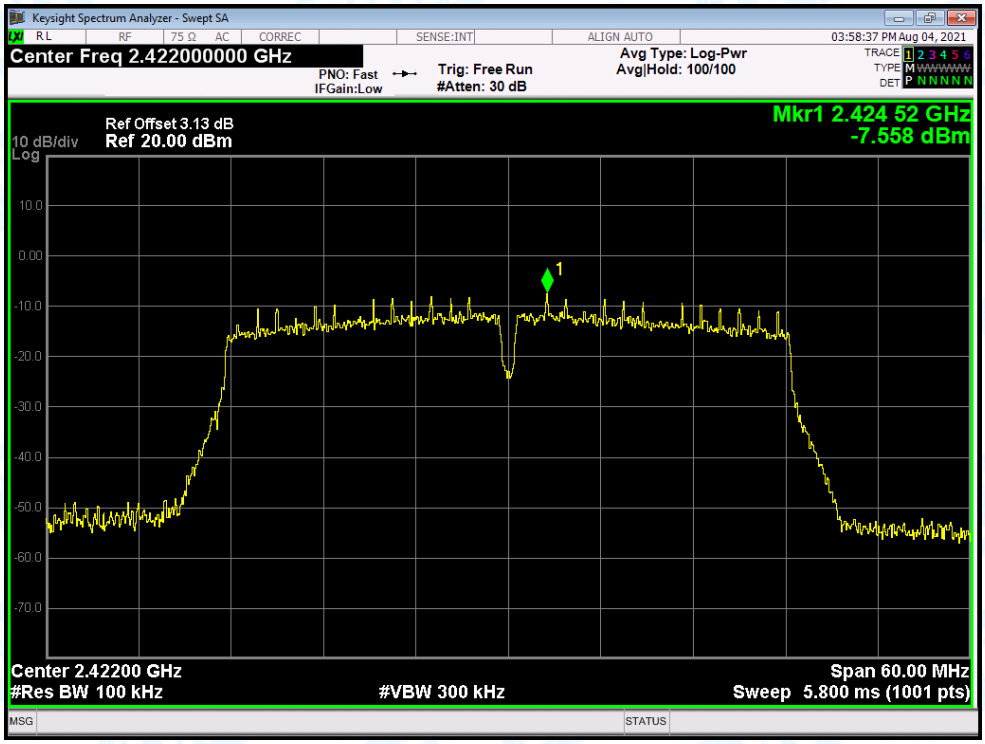
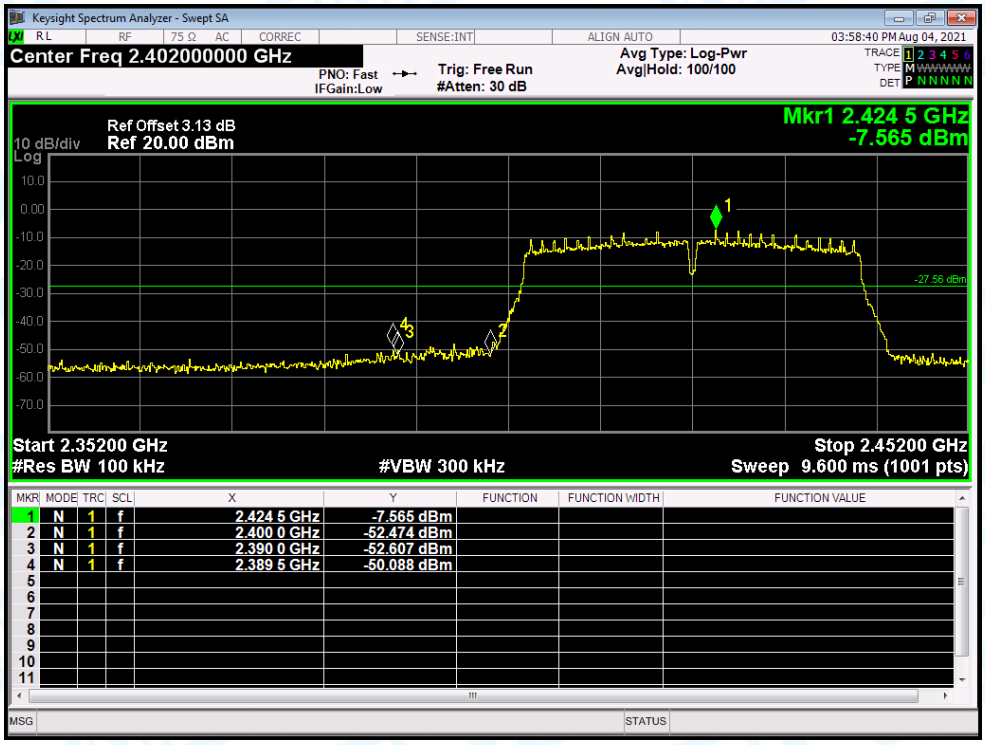
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2422MHz Ant2 Ref



Band Edge NVNT n(HT40) 2422MHz Ant2 Emission