

RF Test Data for 2.4G WiFi (Conducted Measurements)

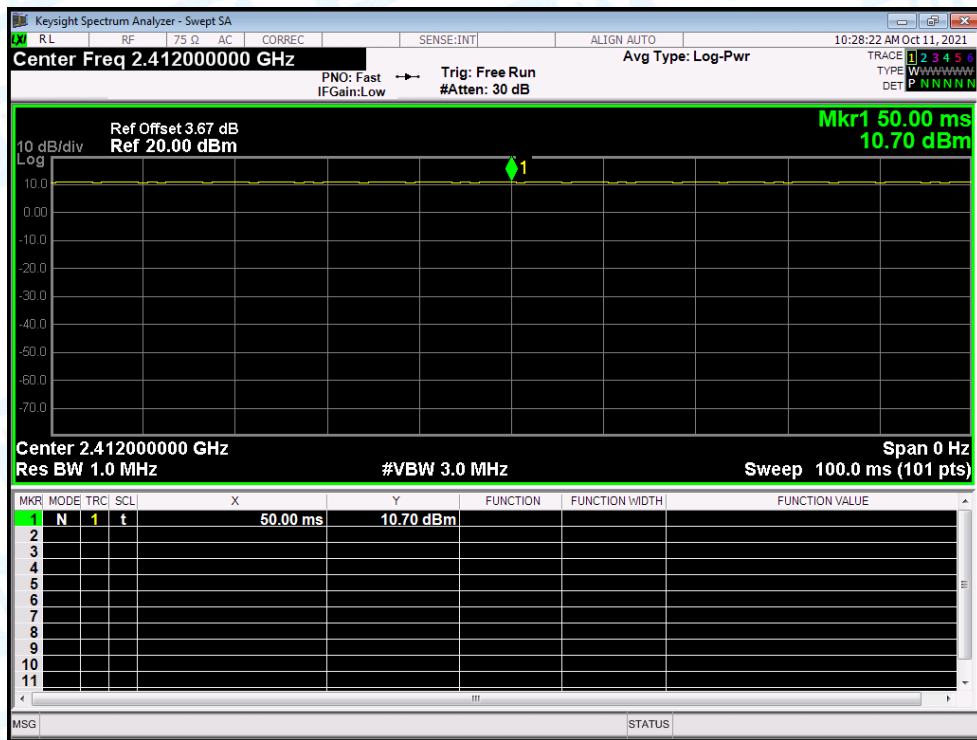
General Description of EUT	
Product Name:	Smart PTZ Battery Camera
Test Model:	CQ1
Sample ID:	20210927-03#2
Environmental Conditions	
Temperature:	24°C
Relative Humidity:	52%
Test Voltage:	DC3.7V
Test Engineer:	Hejingchang
Note: For a more detailed features description, please refer to the report TB-FCC184040	

1. Duty Cycle

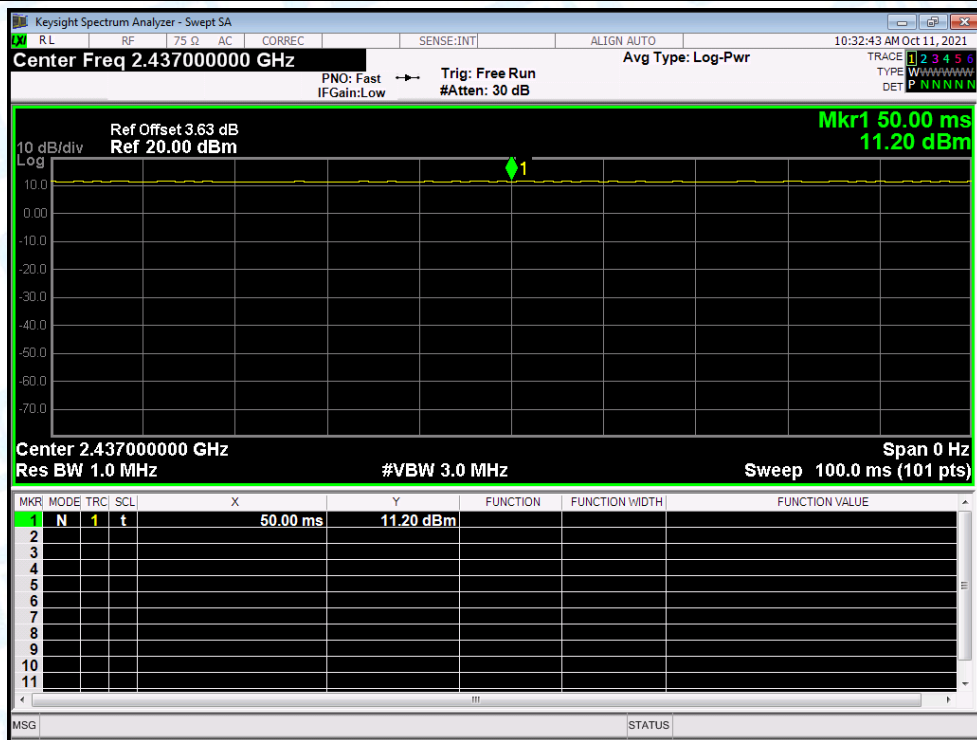
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n(HT20)	2412	Ant1	100	0	0
NVNT	n(HT20)	2437	Ant1	100	0	0
NVNT	n(HT20)	2462	Ant1	100	0	0

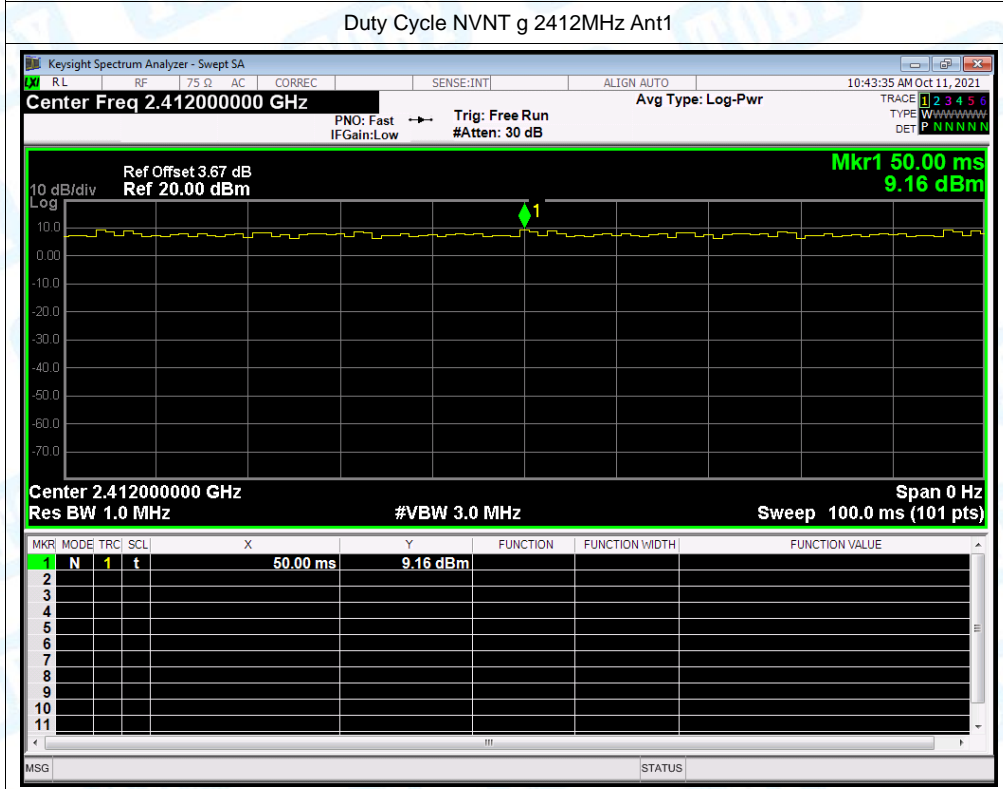
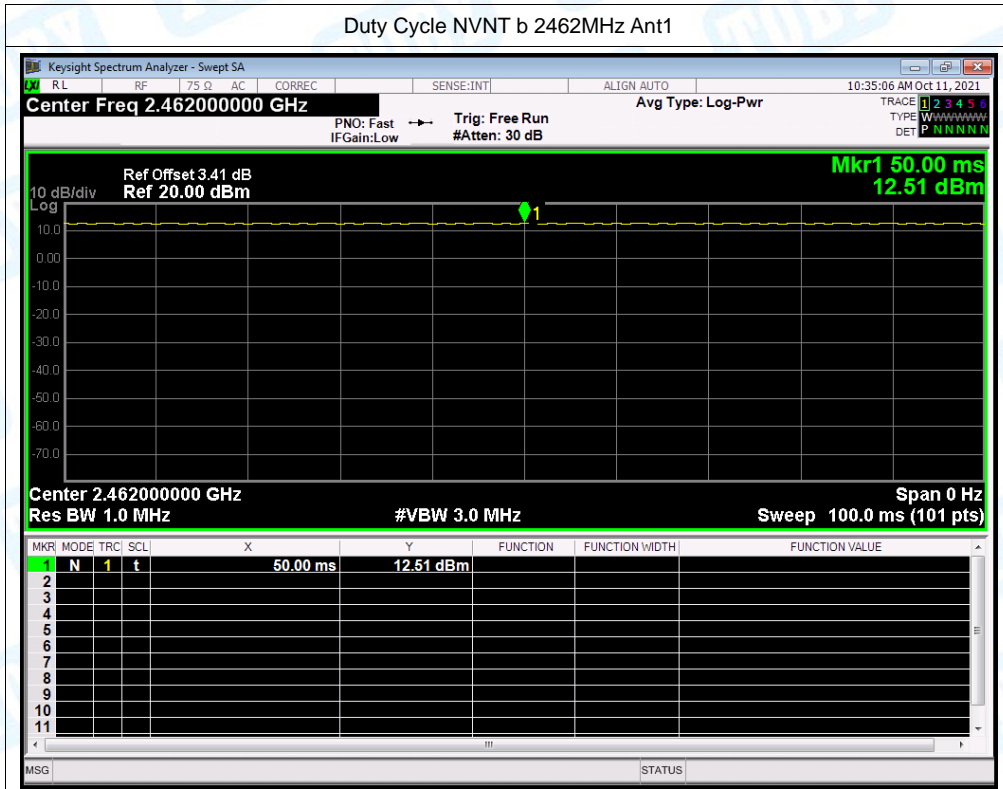
Test Graphs

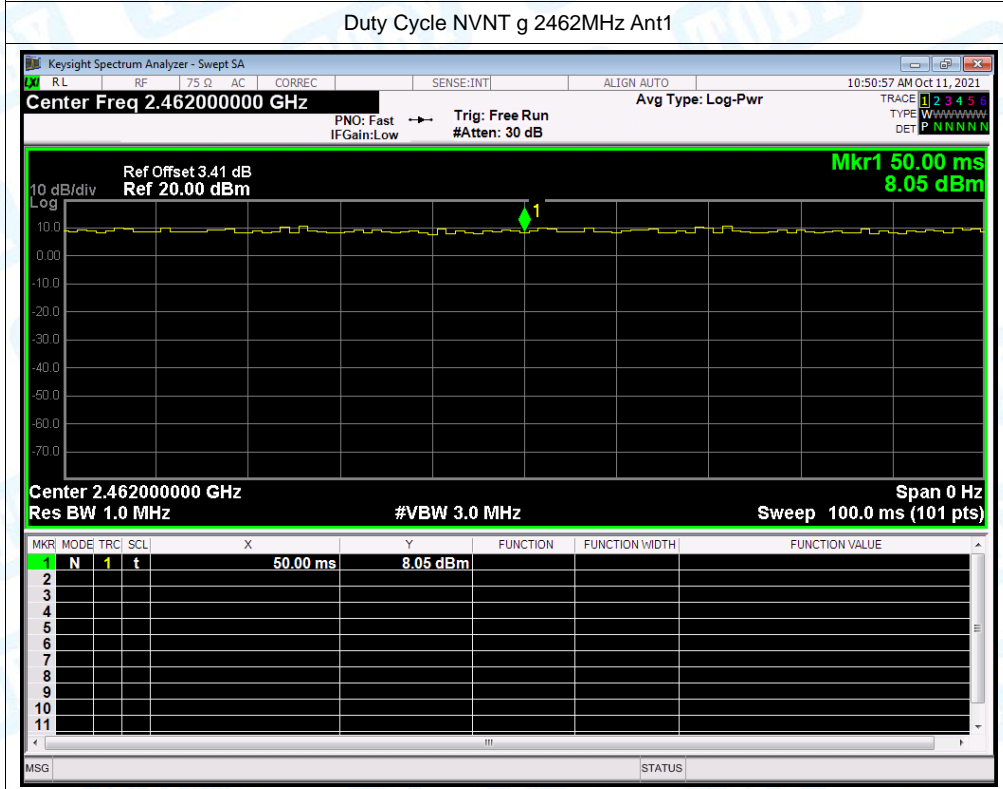
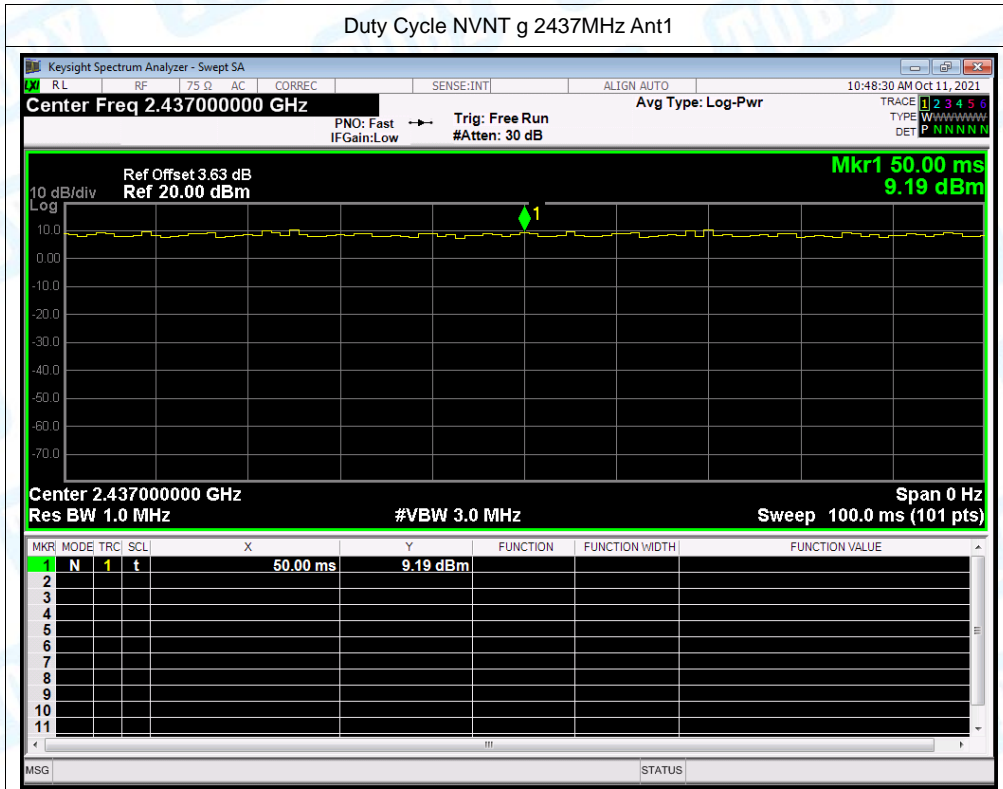
Duty Cycle NVNT b 2412MHz Ant1

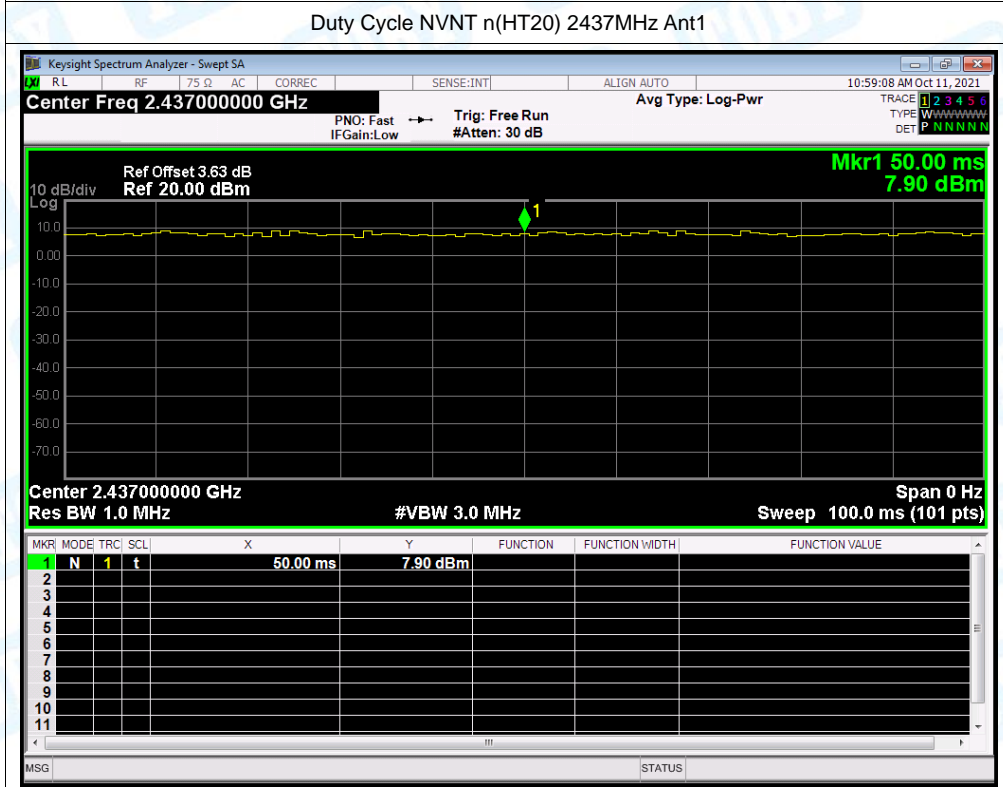
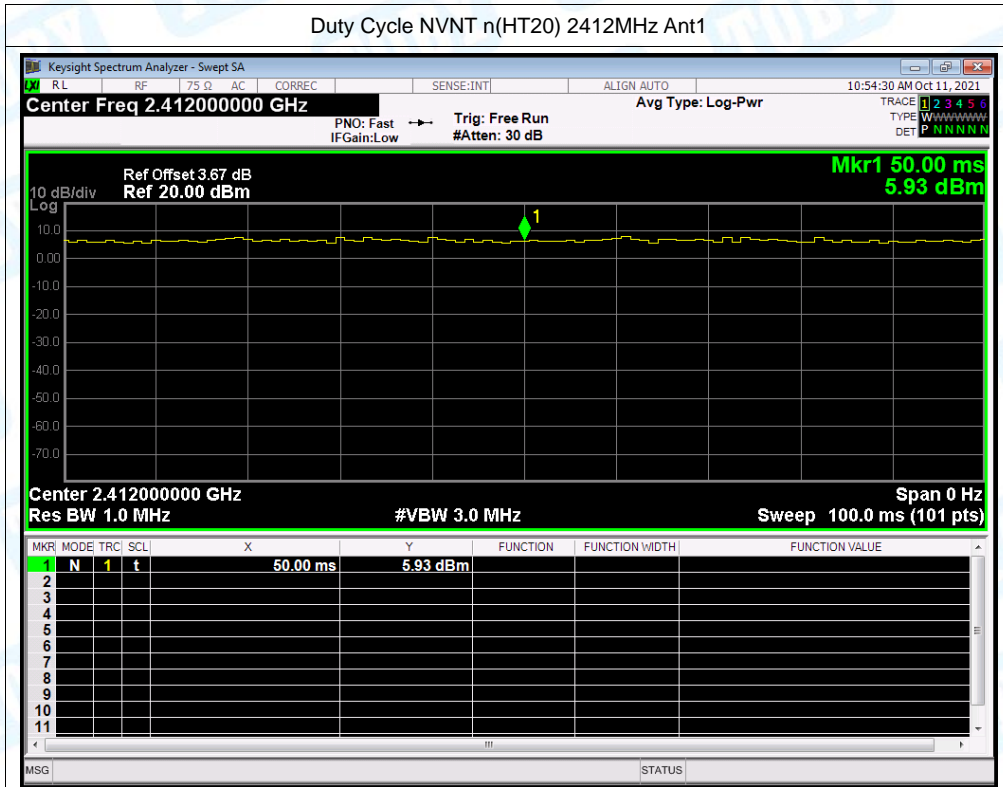


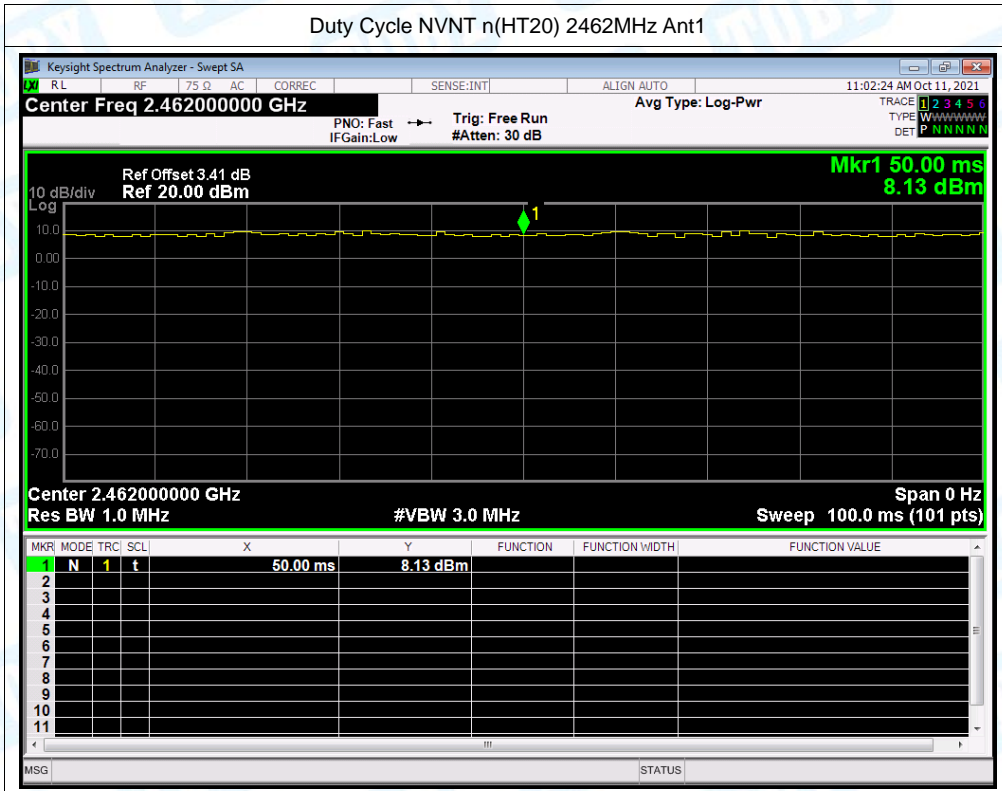
Duty Cycle NVNT b 2437MHz Ant1











2.Maximum Conducted Output Power

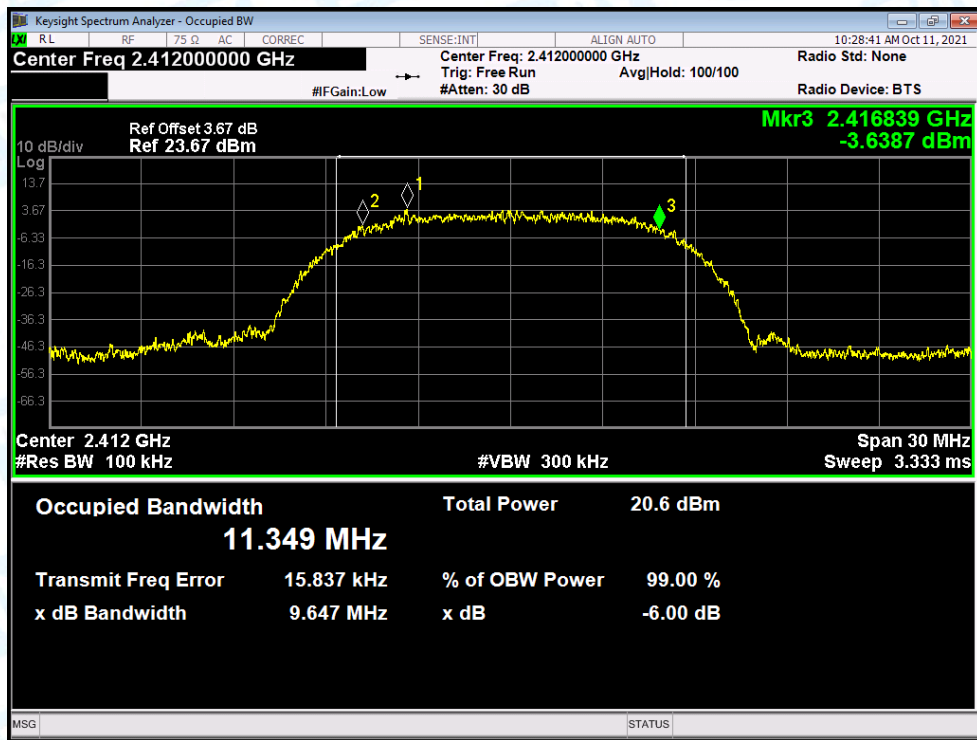
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.353	0	17.353	30	Pass
NVNT	b	2437	Ant1	17.786	0	17.786	30	Pass
NVNT	b	2462	Ant1	18.591	0	18.591	30	Pass
NVNT	g	2412	Ant1	16.68	0	16.68	30	Pass
NVNT	g	2437	Ant1	17.504	0	17.504	30	Pass
NVNT	g	2462	Ant1	18.287	0	18.287	30	Pass
NVNT	n(HT20)	2412	Ant1	16.341	0	16.341	30	Pass
NVNT	n(HT20)	2437	Ant1	17.09	0	17.090	30	Pass
NVNT	n(HT20)	2462	Ant1	18.181	0	18.181	30	Pass

3.-6dB Bandwidth

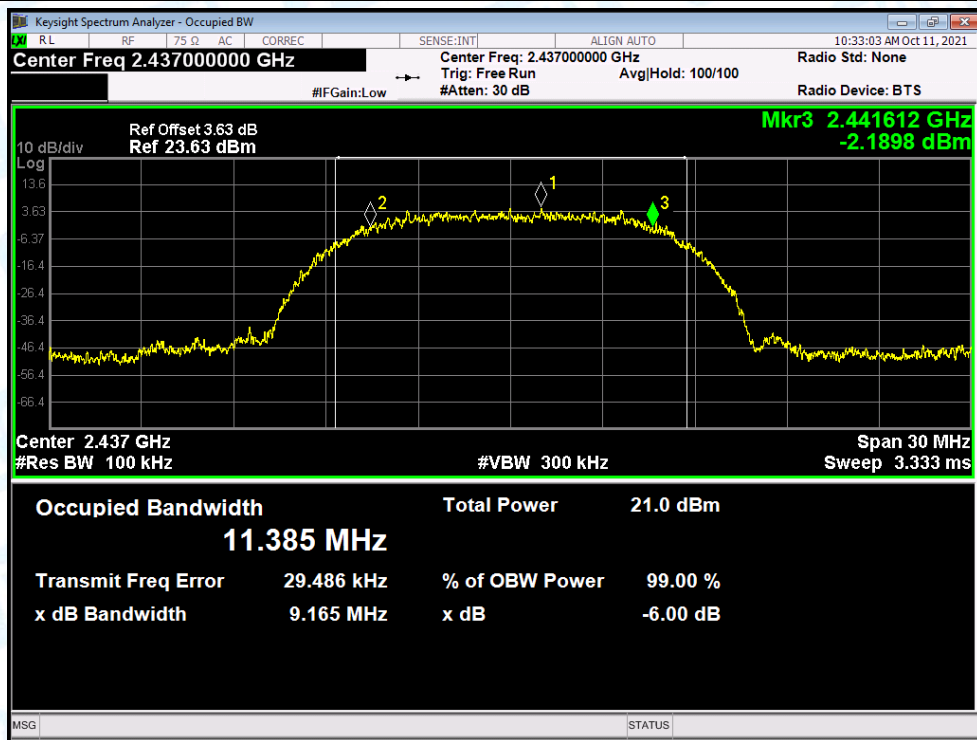
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.647	0.5	Pass
NVNT	b	2437	Ant1	9.165	0.5	Pass
NVNT	b	2462	Ant1	9.101	0.5	Pass
NVNT	g	2412	Ant1	16.500	0.5	Pass
NVNT	g	2437	Ant1	16.490	0.5	Pass
NVNT	g	2462	Ant1	16.480	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.680	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.670	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.680	0.5	Pass

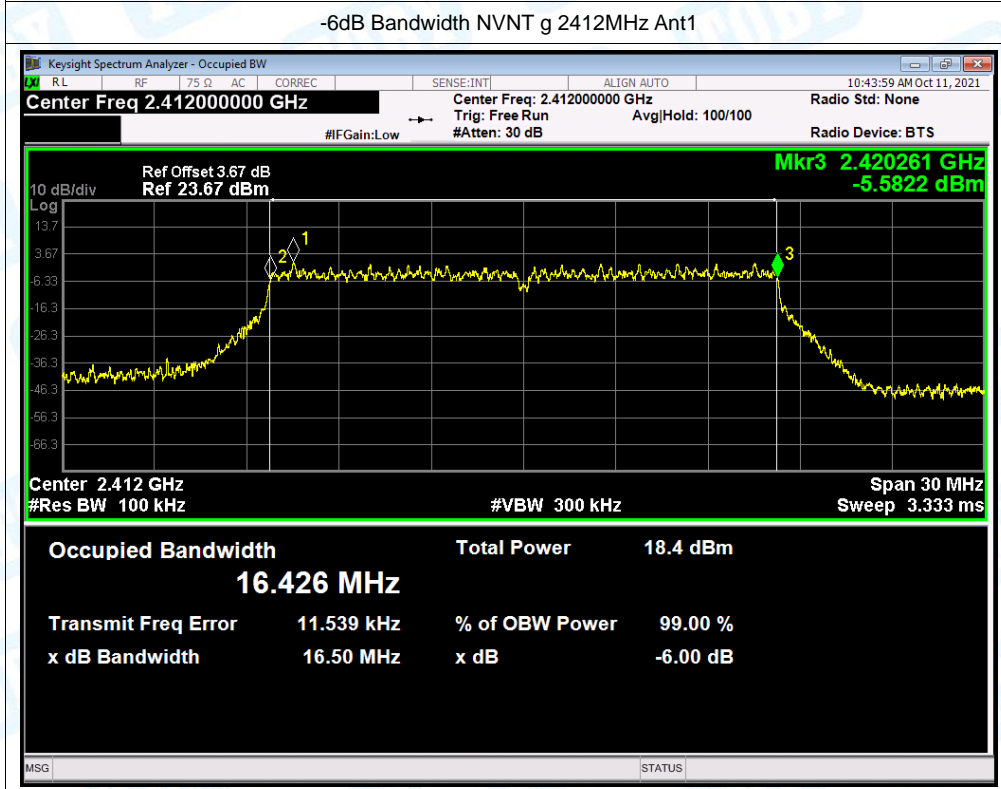
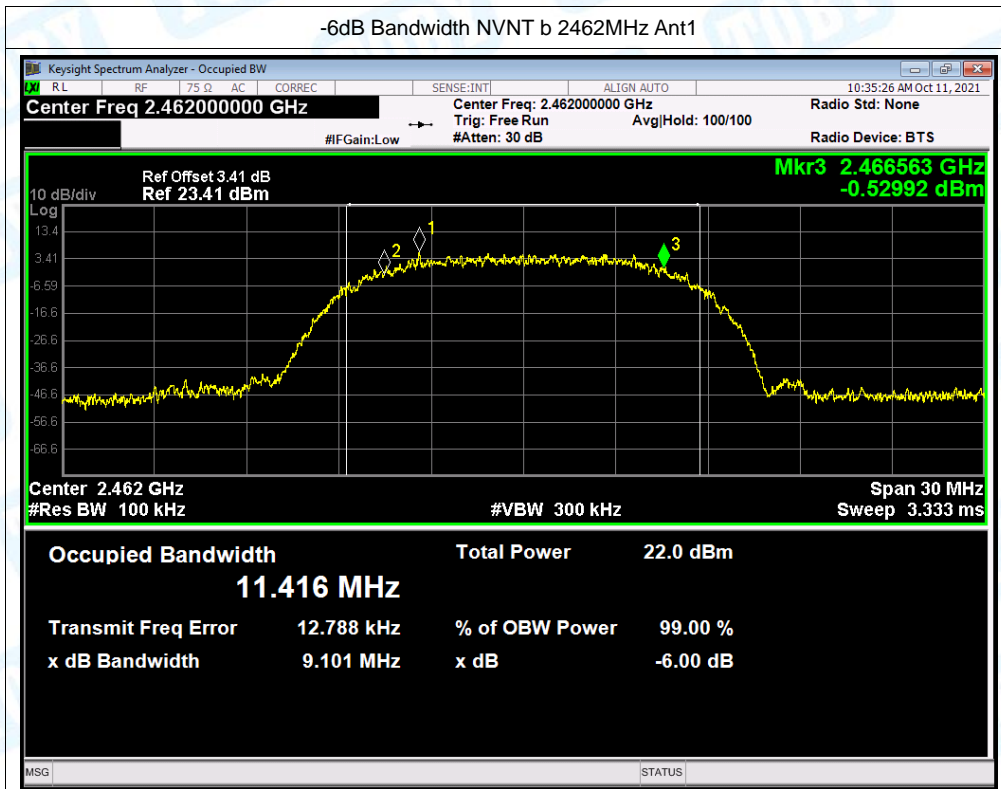
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

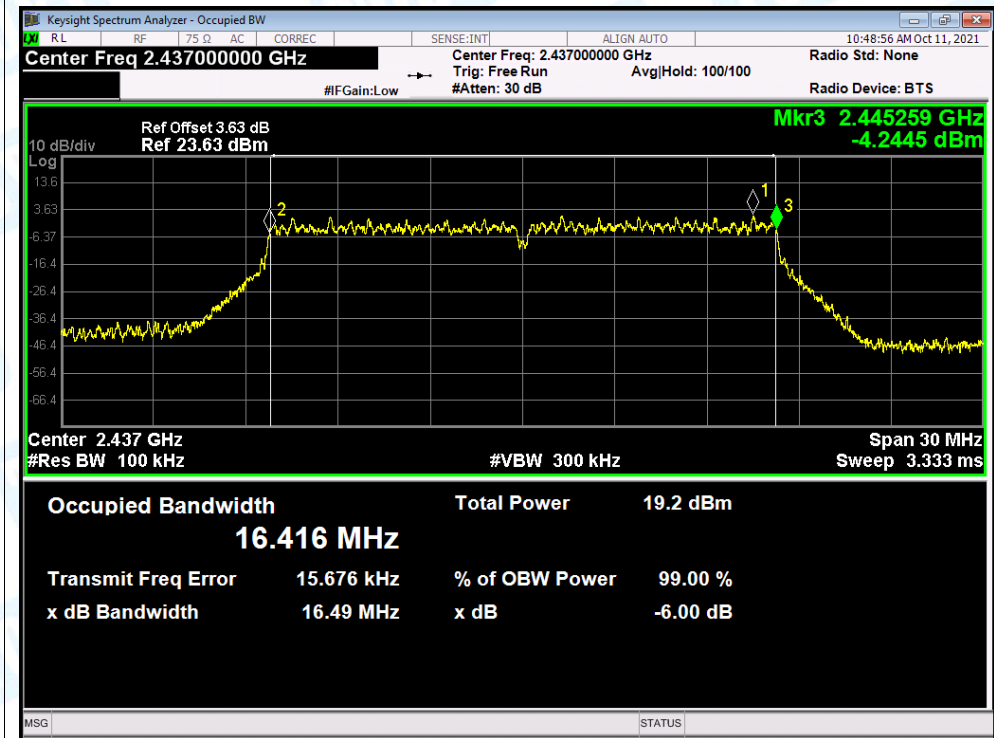


-6dB Bandwidth NVNT b 2437MHz Ant1

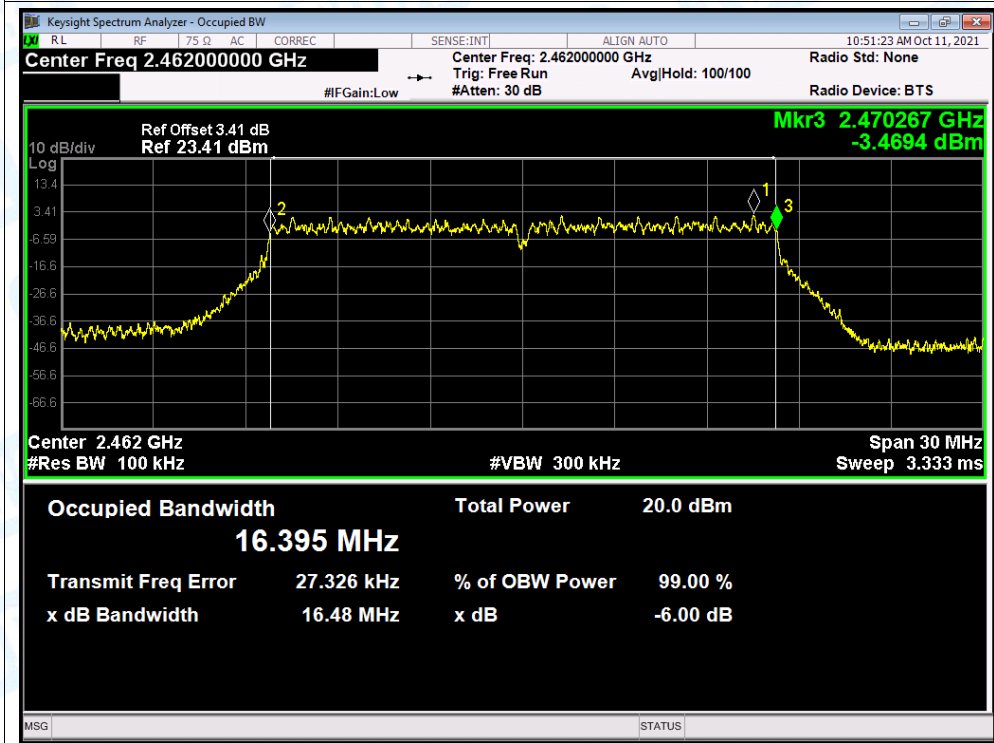


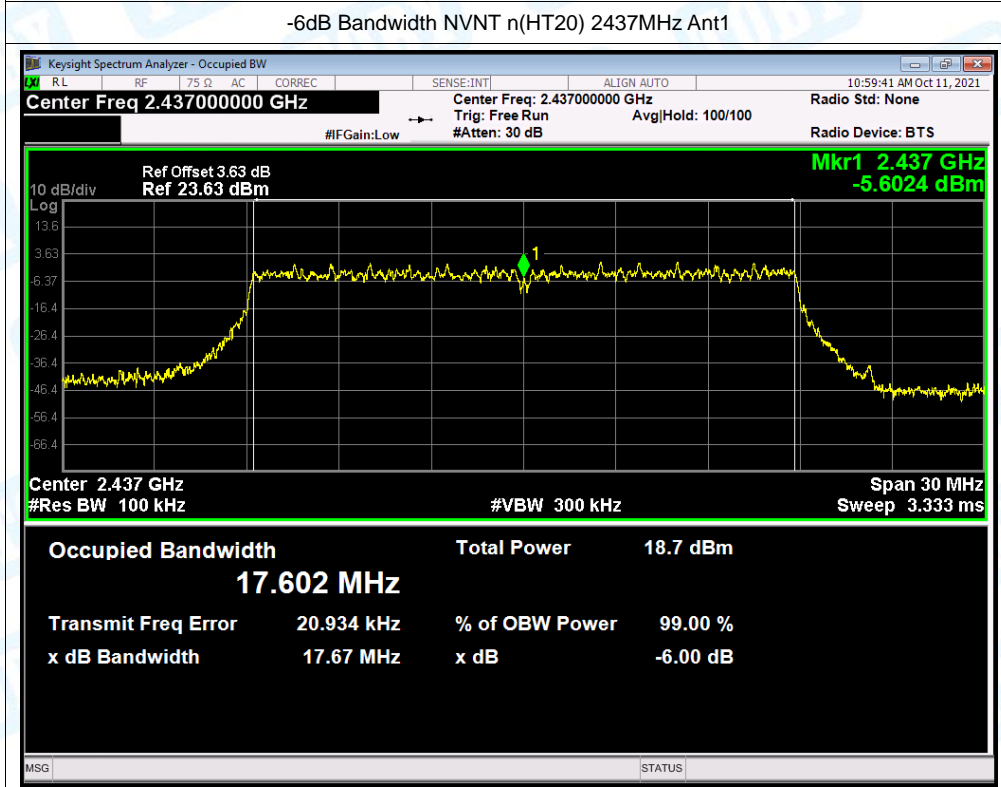
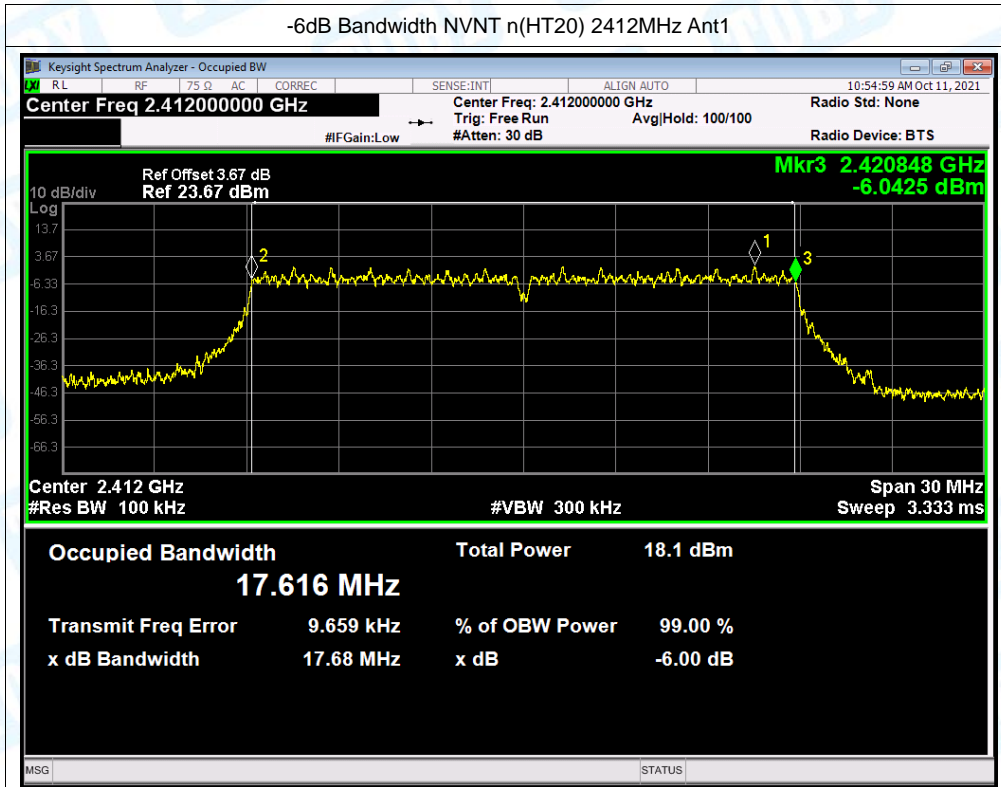


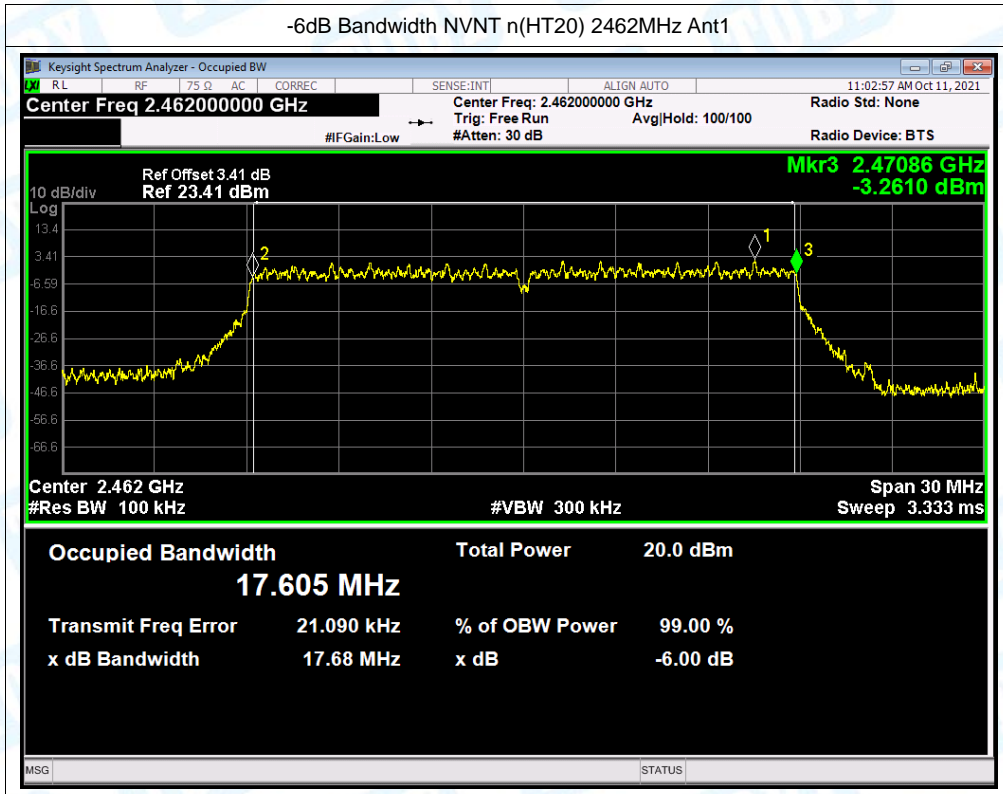
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1





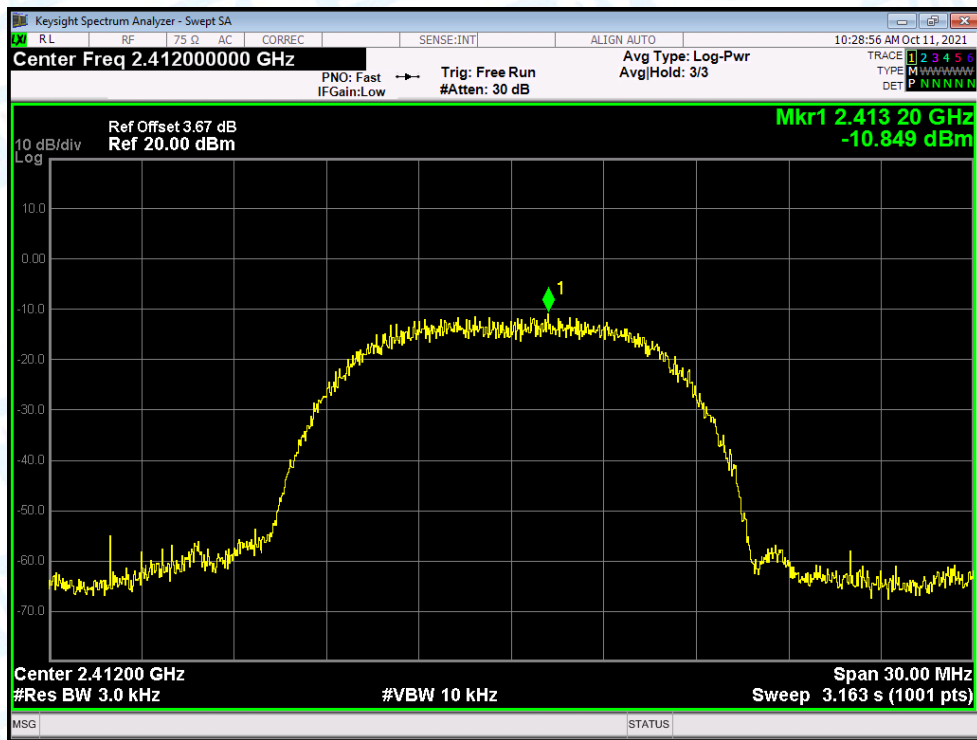


4. Maximum Power Spectral Density Level

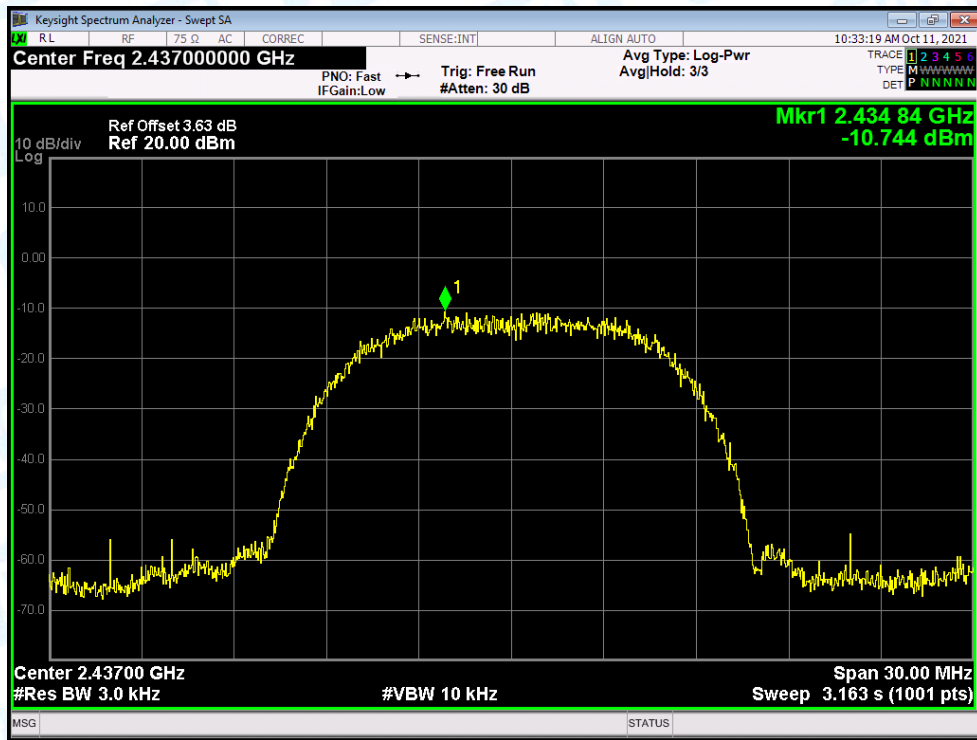
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-10.849	8	Pass
NVNT	b	2437	Ant1	-10.744	8	Pass
NVNT	b	2462	Ant1	-7.276	8	Pass
NVNT	g	2412	Ant1	-12.789	8	Pass
NVNT	g	2437	Ant1	-11.679	8	Pass
NVNT	g	2462	Ant1	-12.952	8	Pass
NVNT	n(HT20)	2412	Ant1	-14.279	8	Pass
NVNT	n(HT20)	2437	Ant1	-11.998	8	Pass
NVNT	n(HT20)	2462	Ant1	-12.497	8	Pass

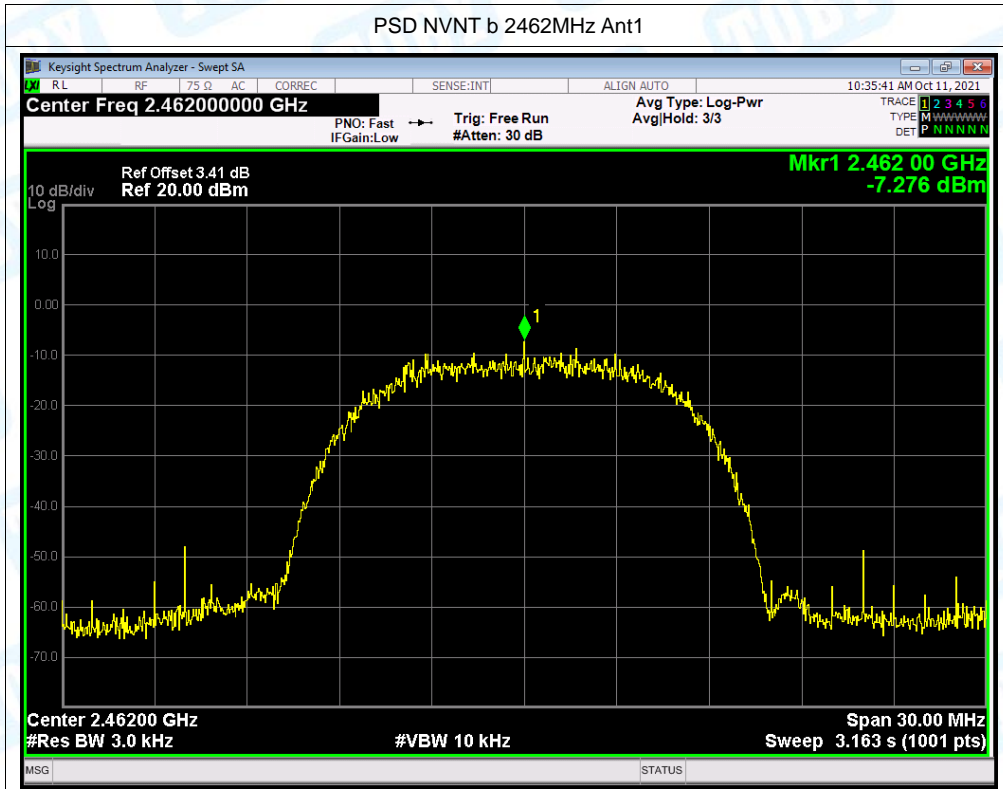
Test Graphs

PSD NVNT b 2412MHz Ant1

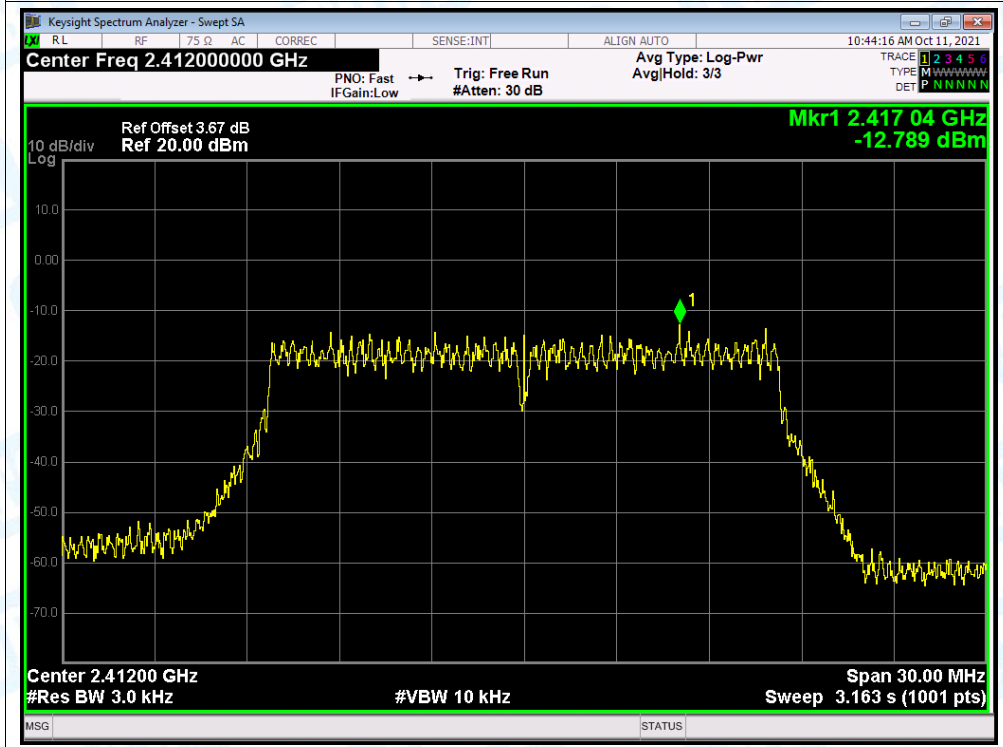


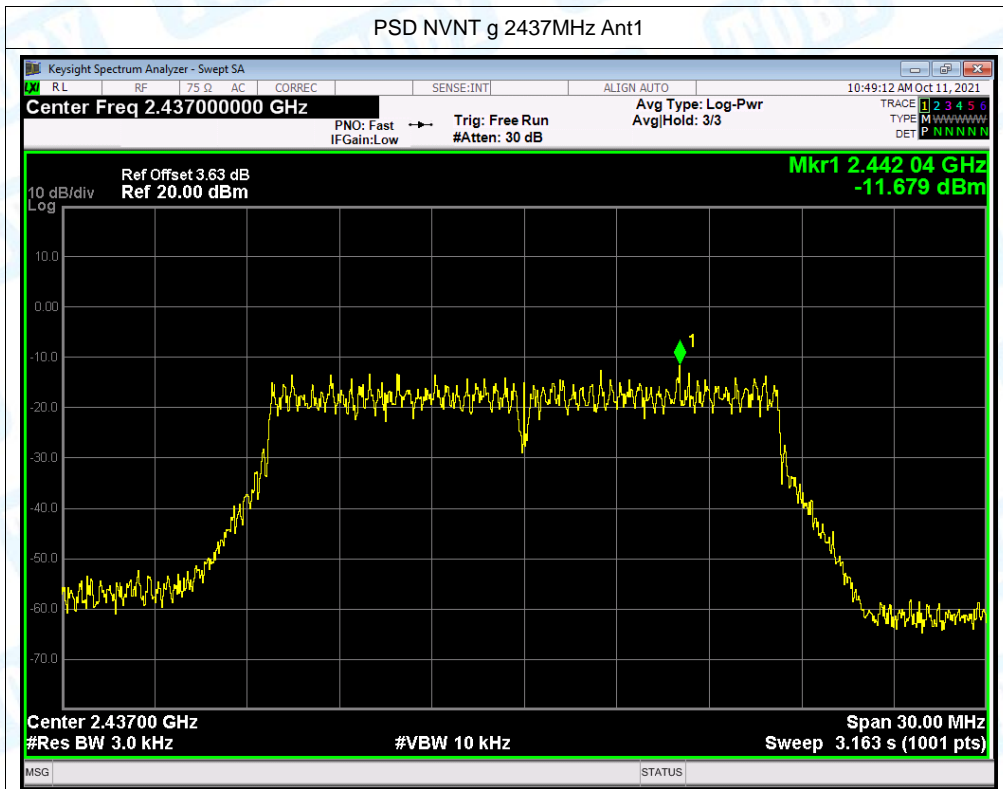
PSD NVNT b 2437MHz Ant1



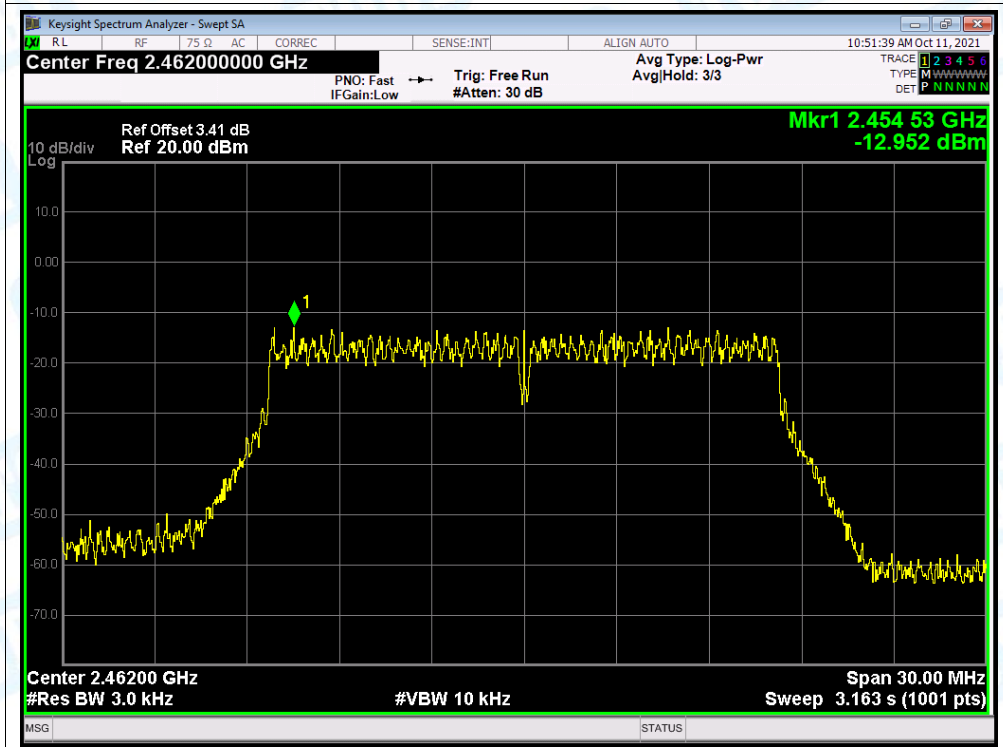


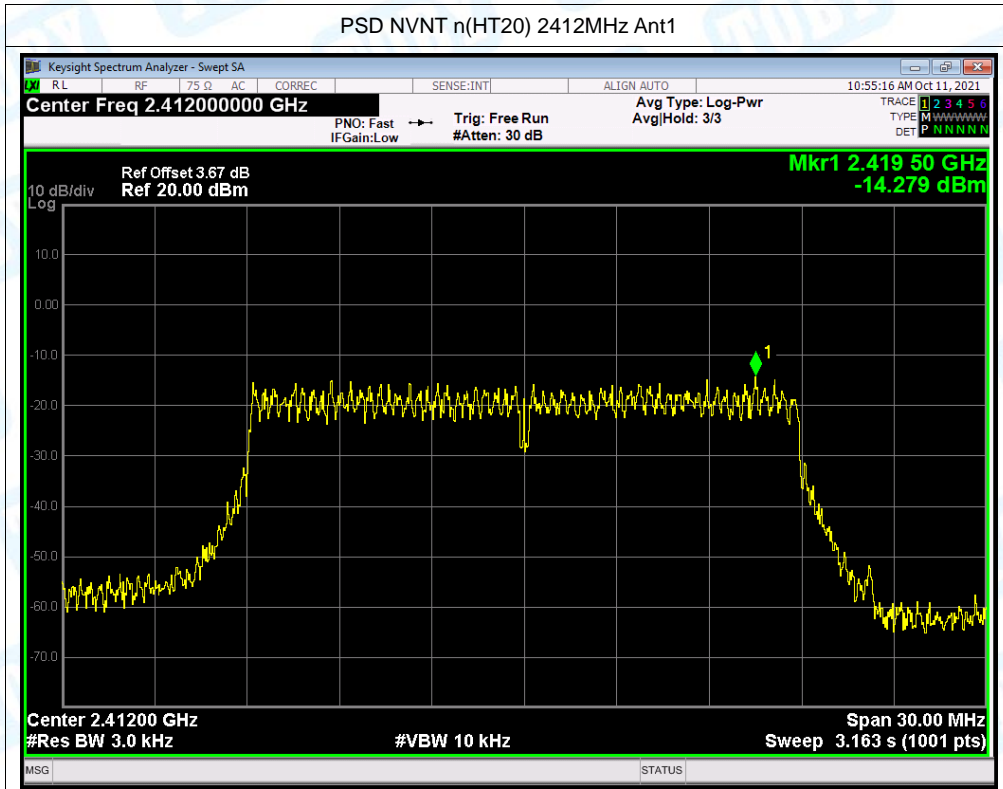
PSD NVNT g 2412MHz Ant1



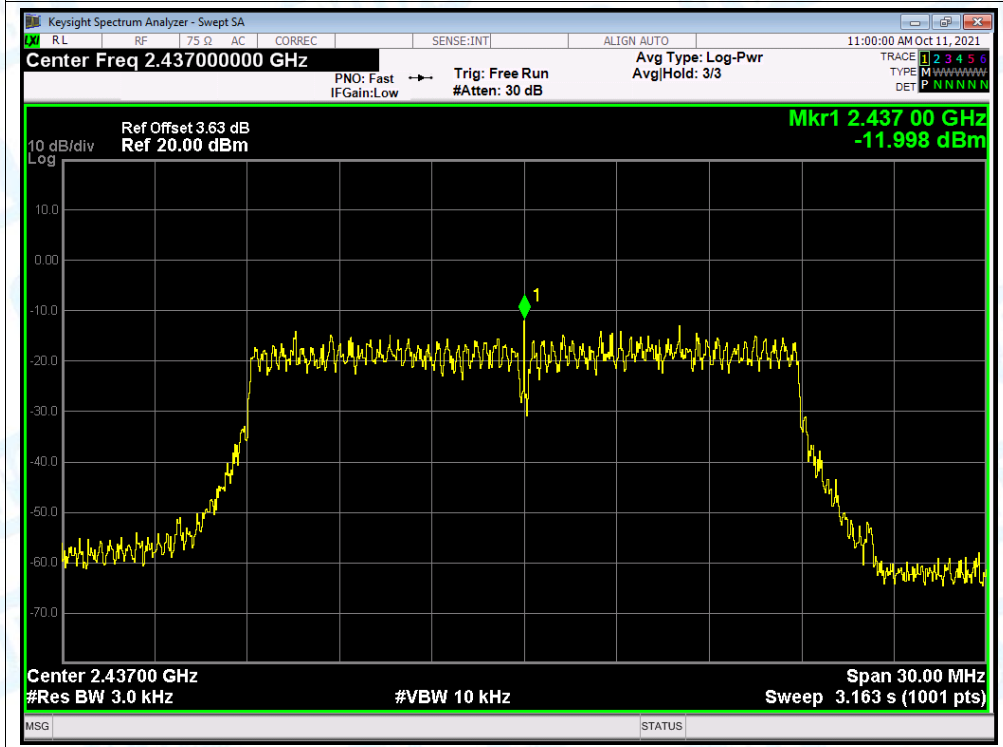


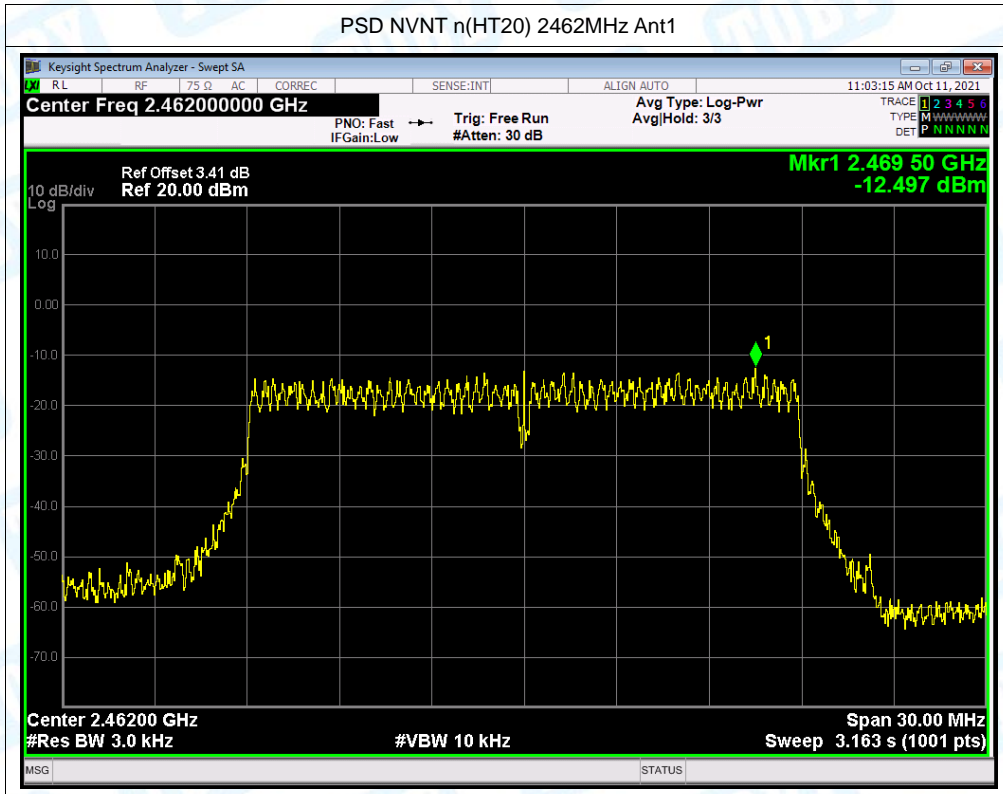
PSD NVNT g 2462MHz Ant1





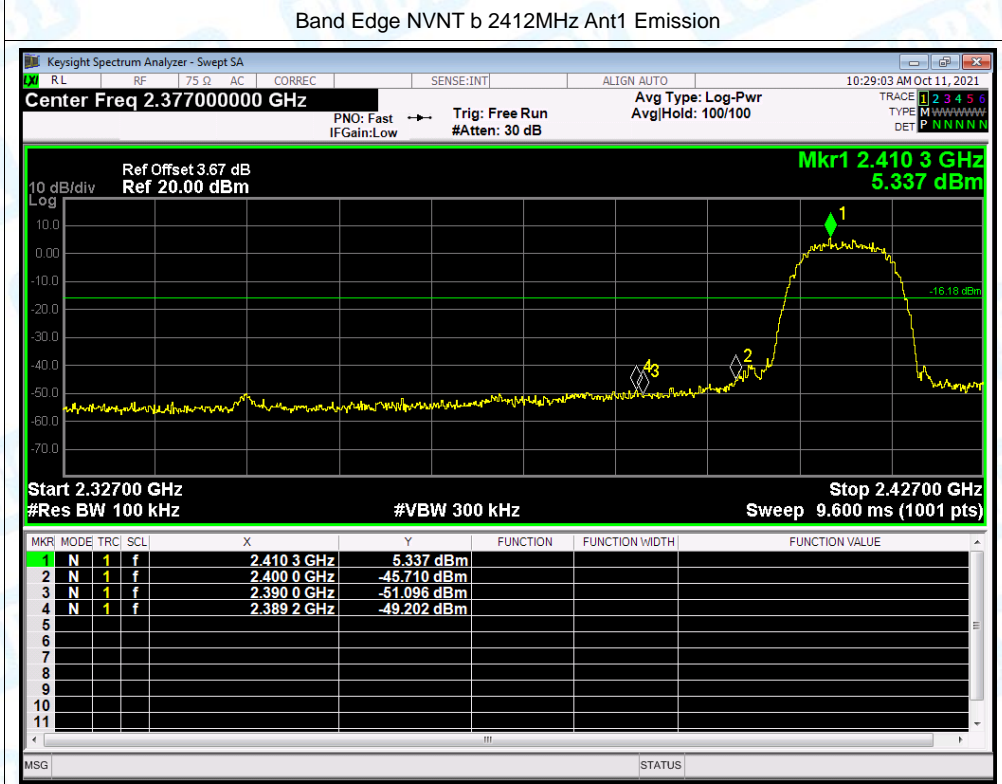
PSD NVNT n(HT20) 2437MHz Ant1

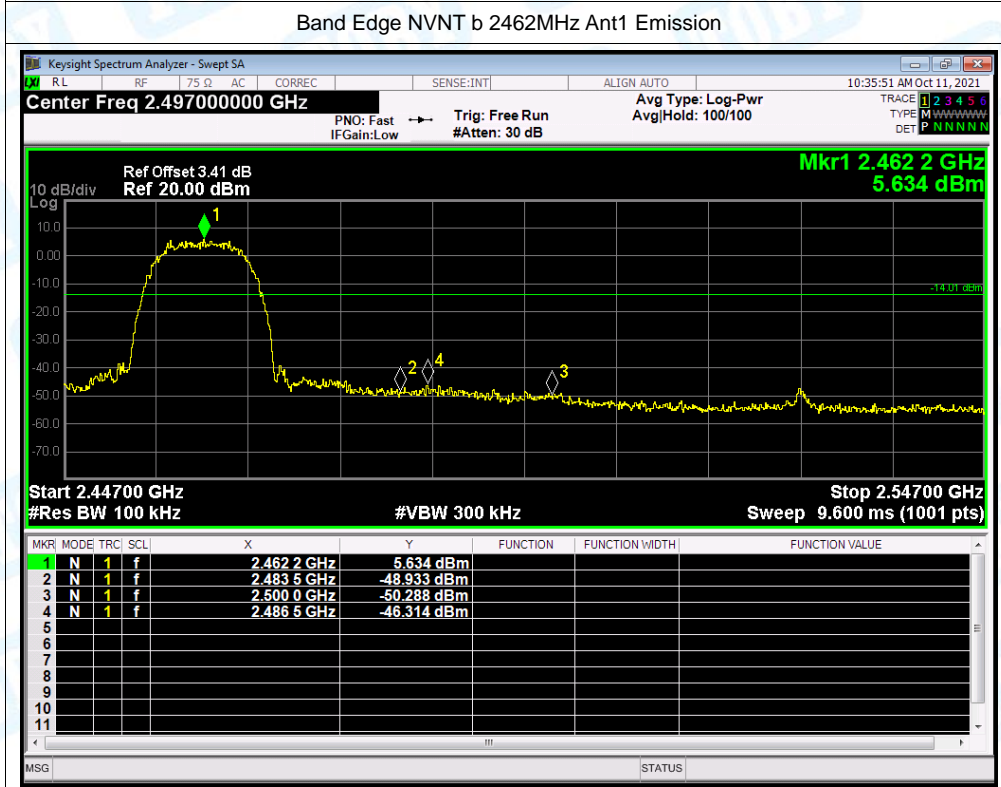
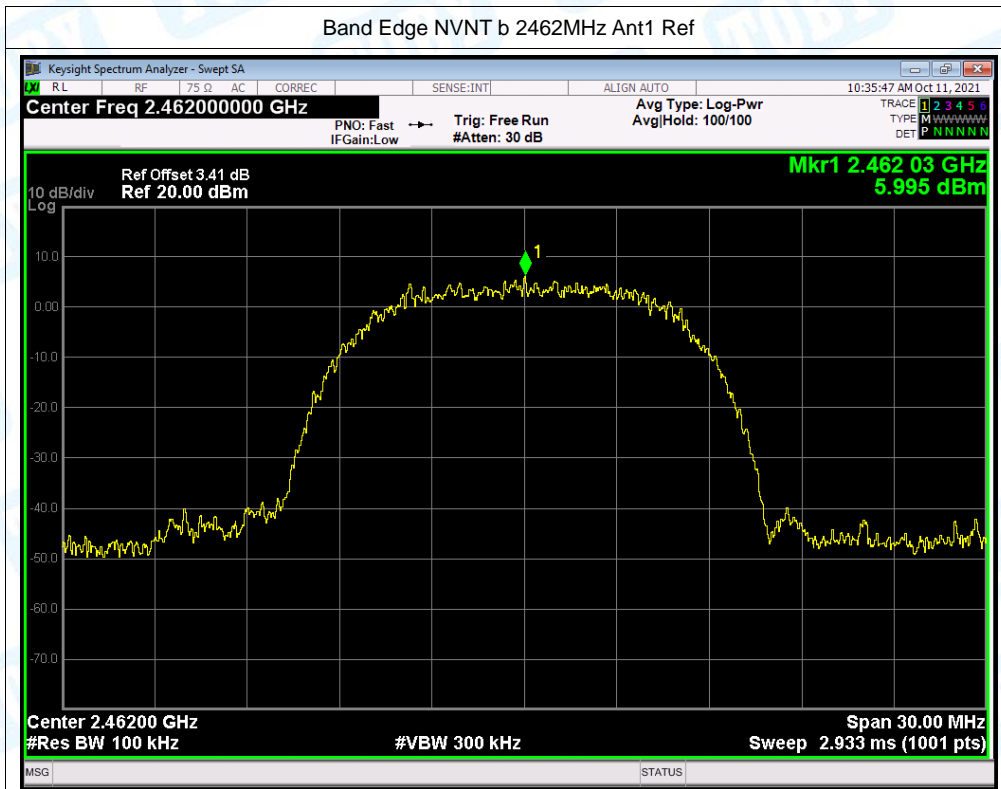




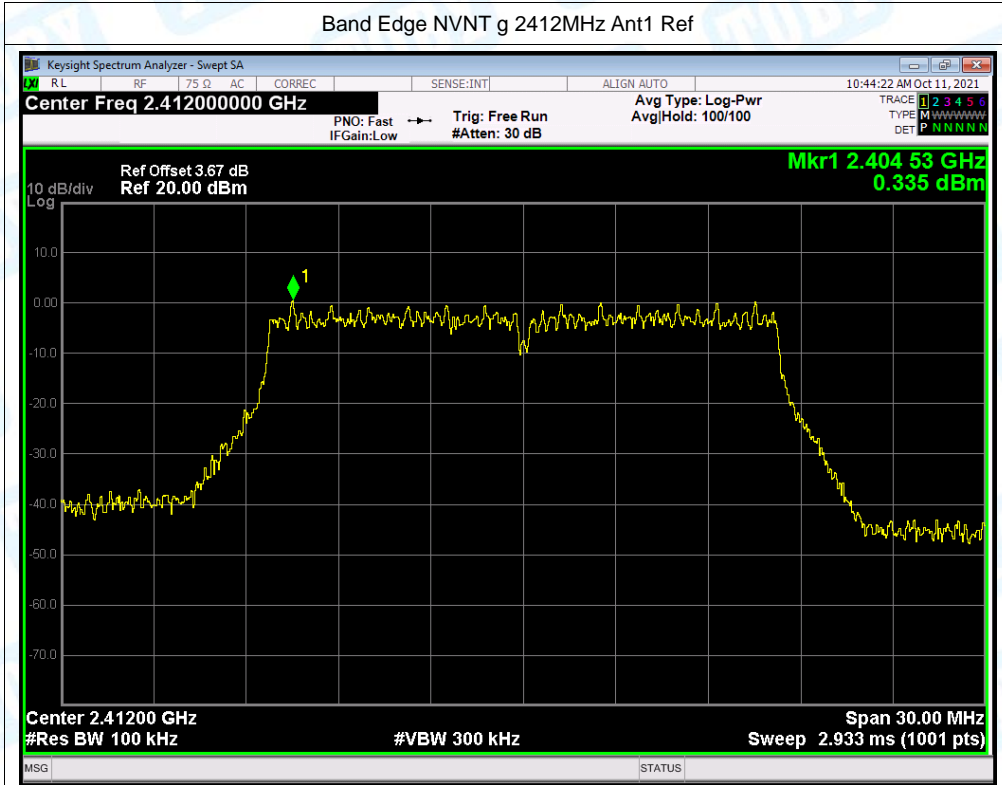
5.Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.02	-20	Pass
NVNT	b	2462	Ant1	-52.31	-20	Pass
NVNT	g	2412	Ant1	-46.86	-20	Pass
NVNT	g	2462	Ant1	-47.96	-20	Pass
NVNT	n(HT20)	2412	Ant1	-45.43	-20	Pass
NVNT	n(HT20)	2462	Ant1	-47.52	-20	Pass

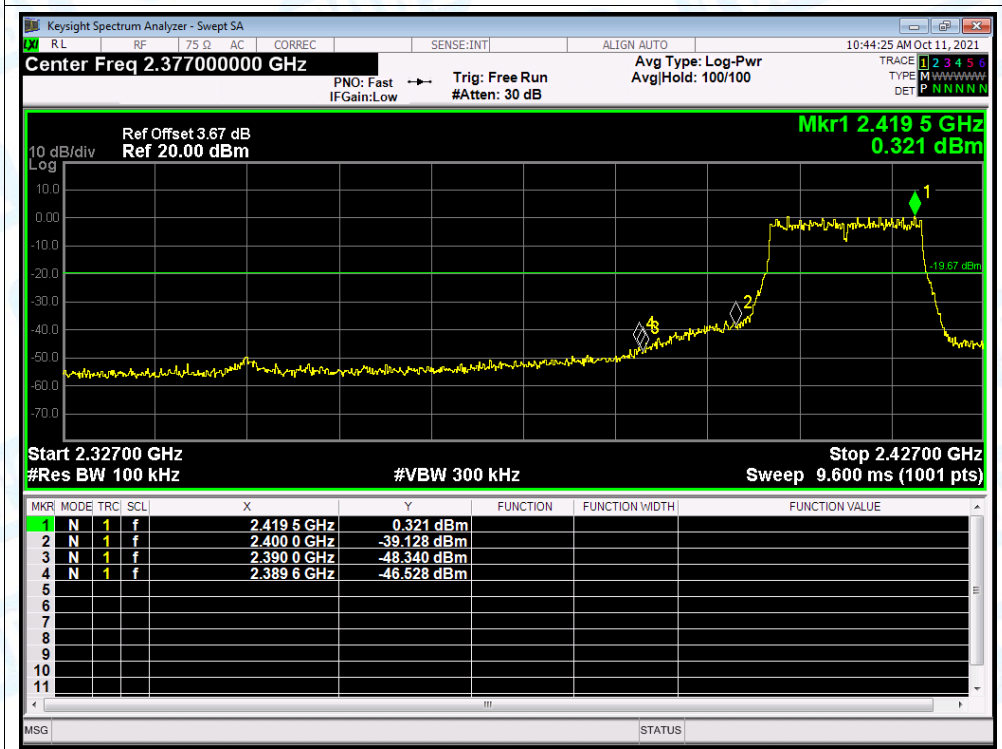


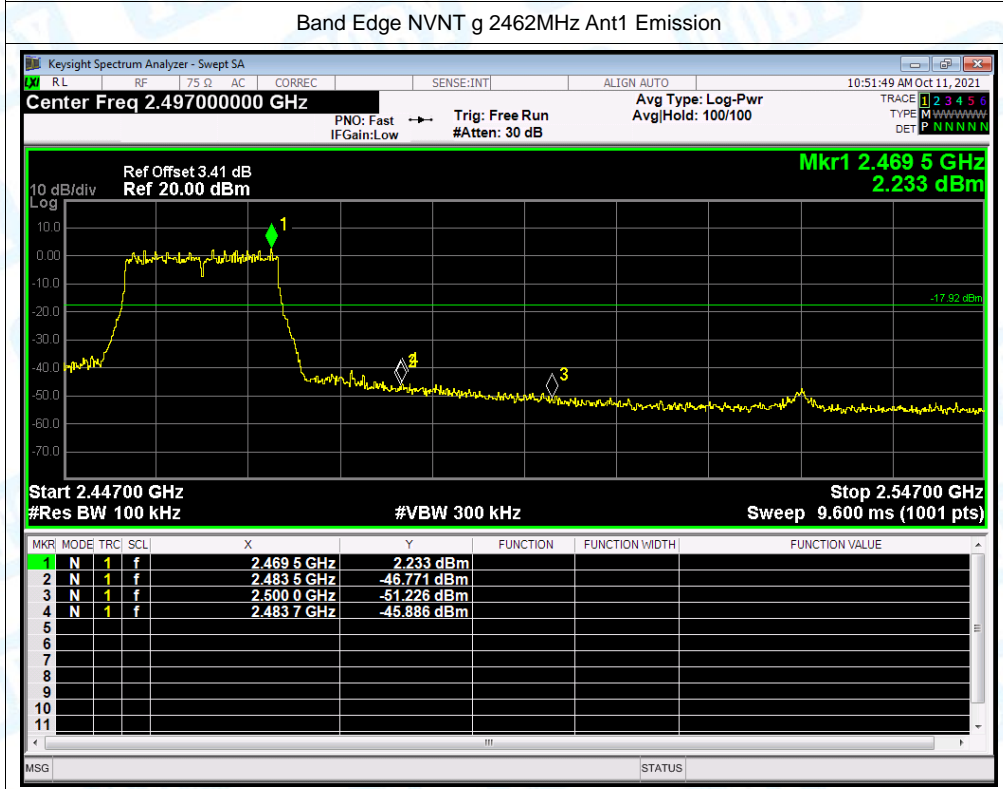
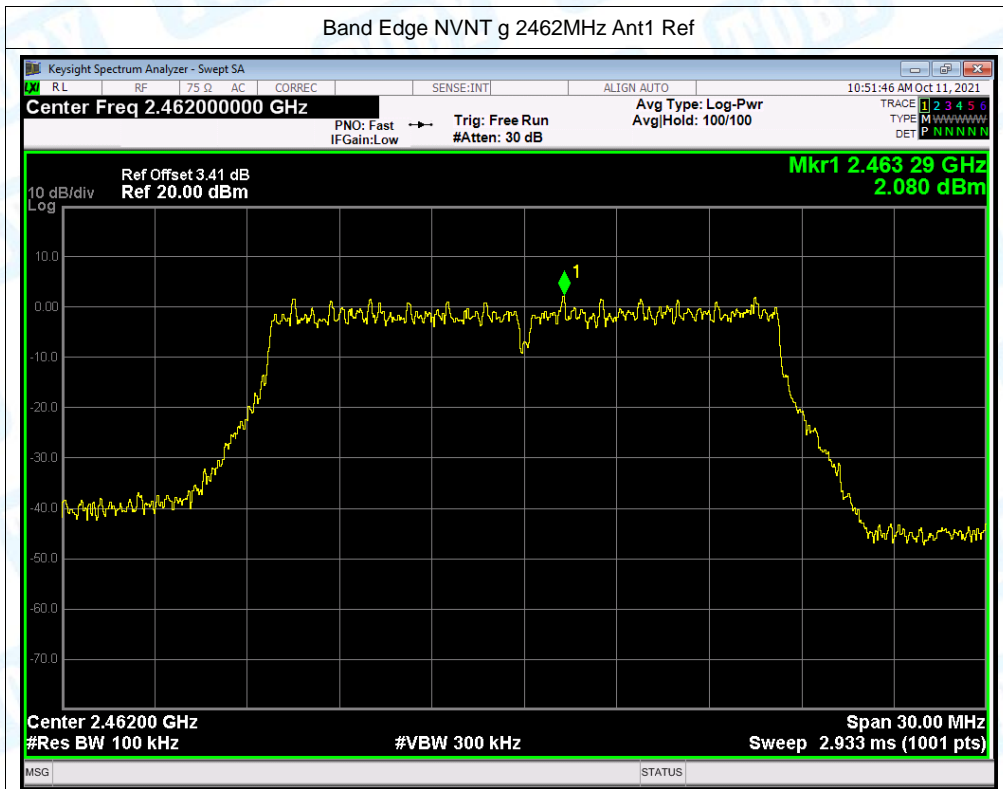


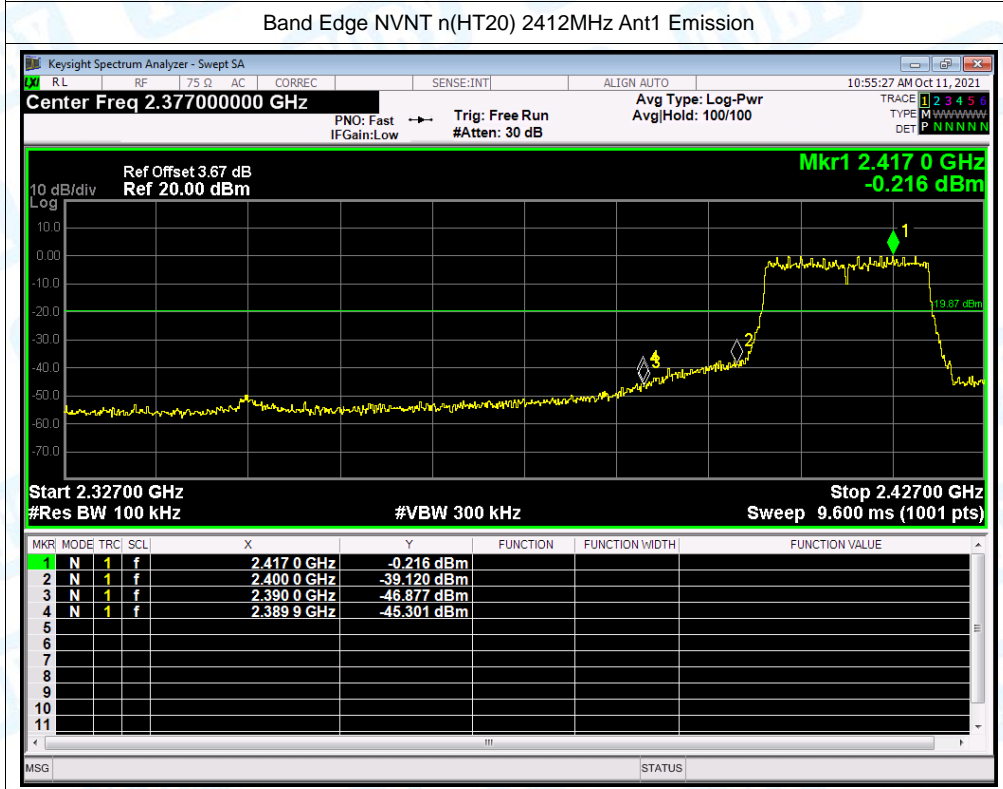
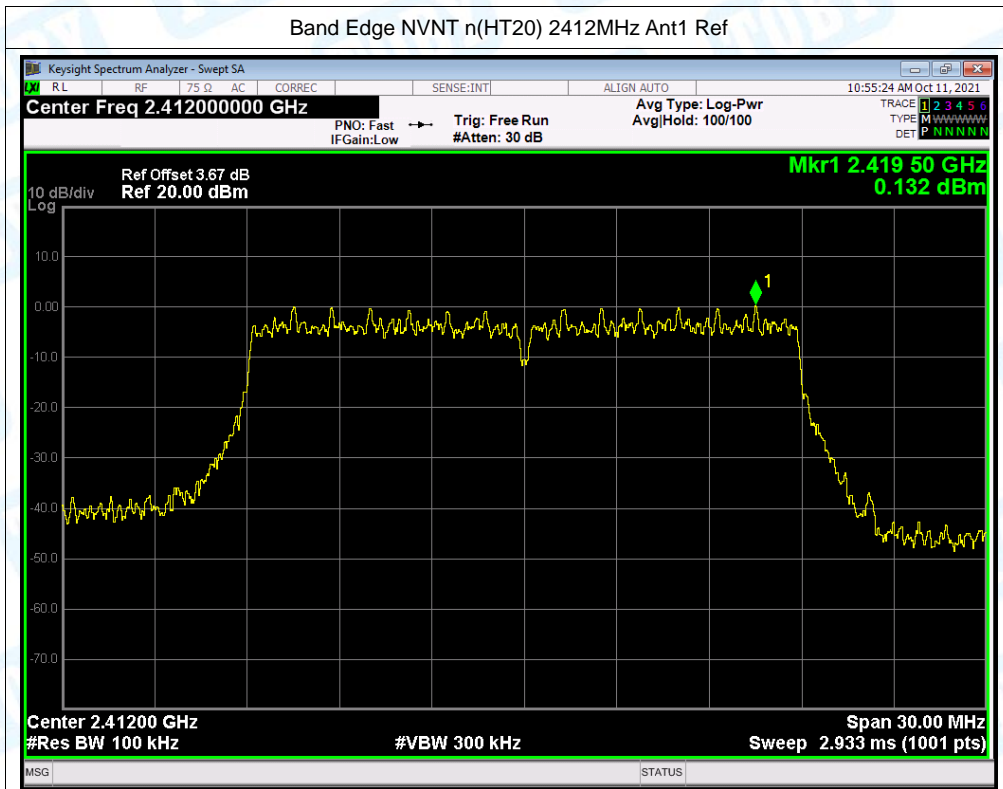
Band Edge NVNT g 2412MHz Ant1 Ref

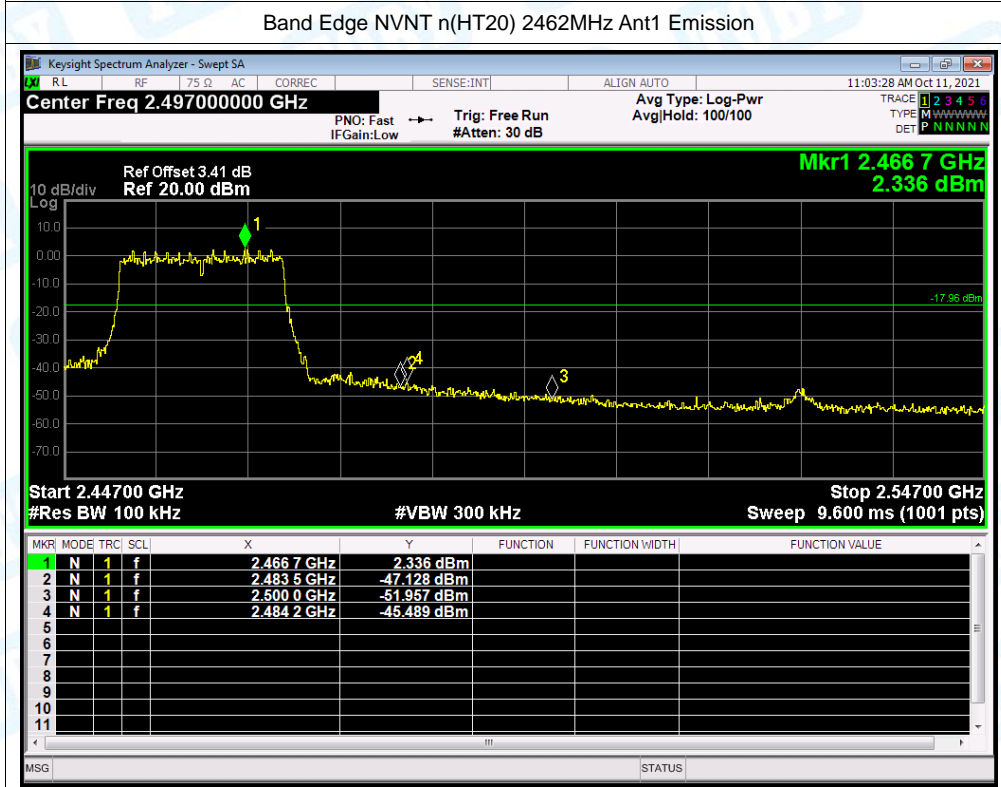
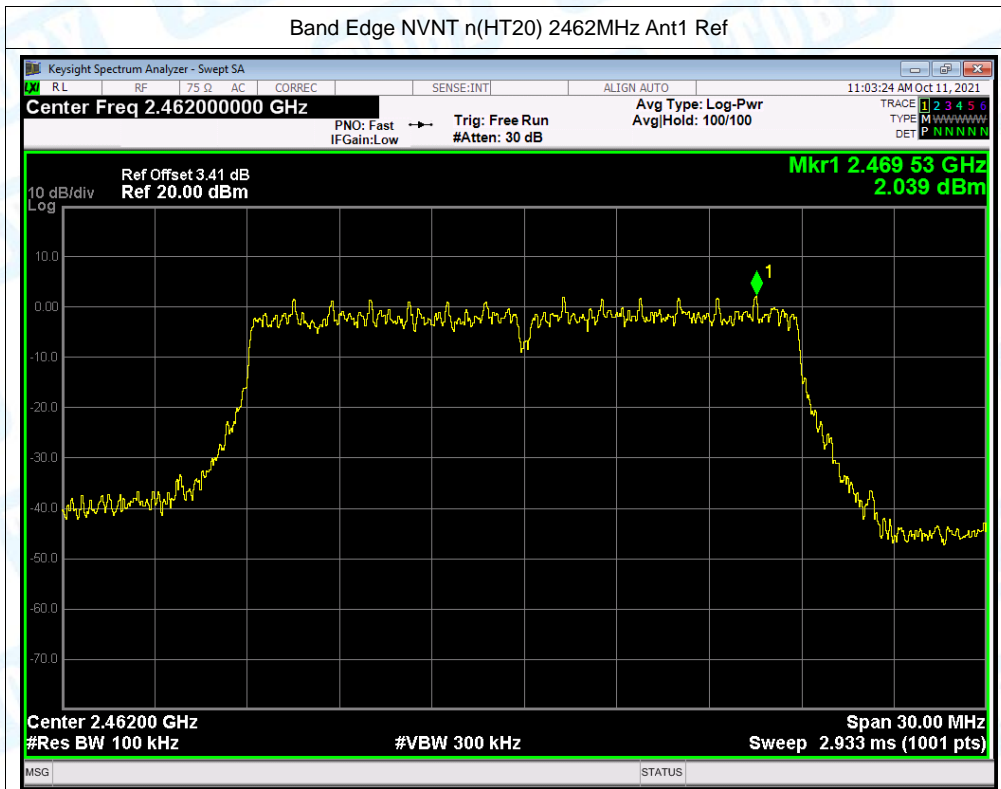


Band Edge NVNT g 2412MHz Ant1 Emission







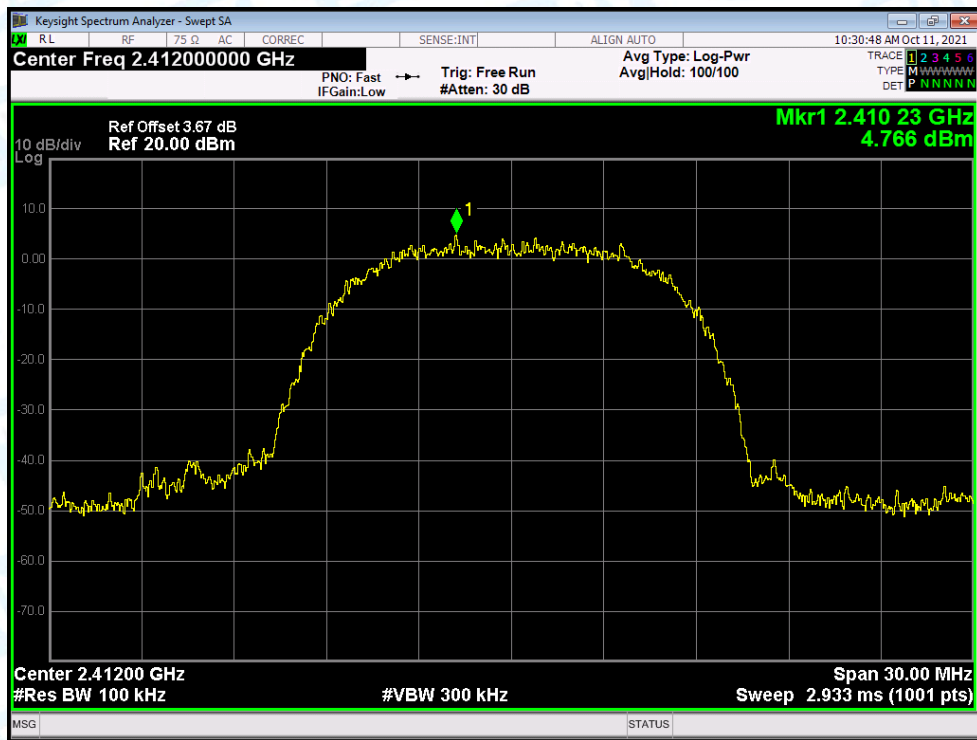


6. Conducted RF Spurious Emission

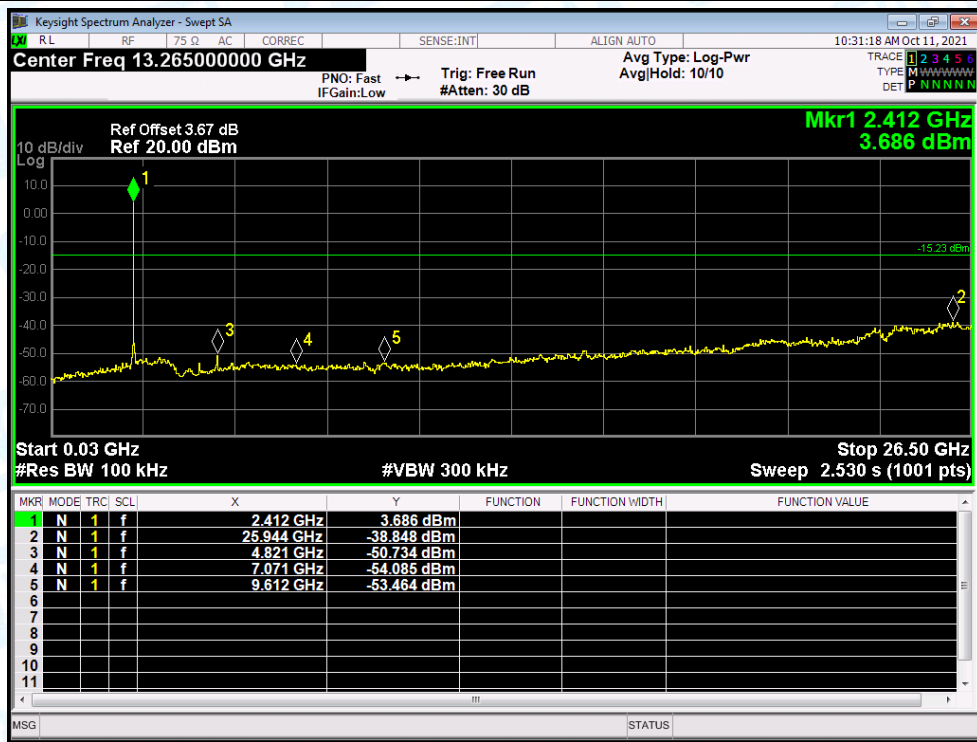
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.61	-20	Pass
NVNT	b	2437	Ant1	-43.59	-20	Pass
NVNT	b	2462	Ant1	-44.31	-20	Pass
NVNT	g	2412	Ant1	-39.03	-20	Pass
NVNT	g	2437	Ant1	-40.09	-20	Pass
NVNT	g	2462	Ant1	-40.83	-20	Pass
NVNT	n(HT20)	2412	Ant1	-39	-20	Pass
NVNT	n(HT20)	2437	Ant1	-40.03	-20	Pass
NVNT	n(HT20)	2462	Ant1	-41.18	-20	Pass

Test Graphs

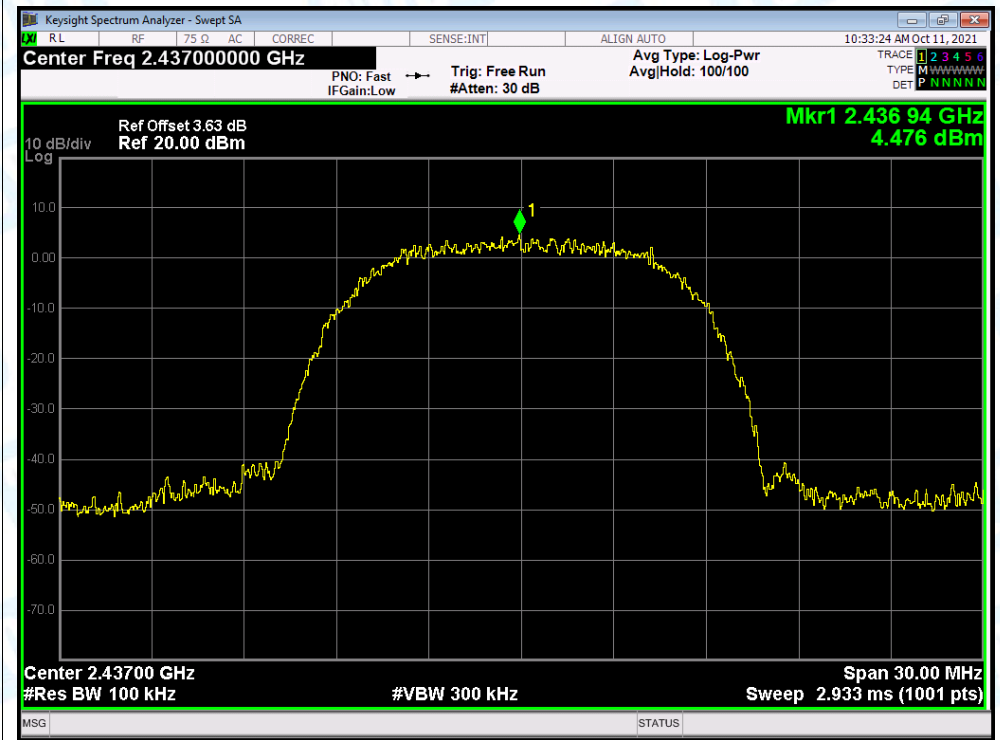
Tx. Spurious NVNT b 2412MHz Ant1 Ref



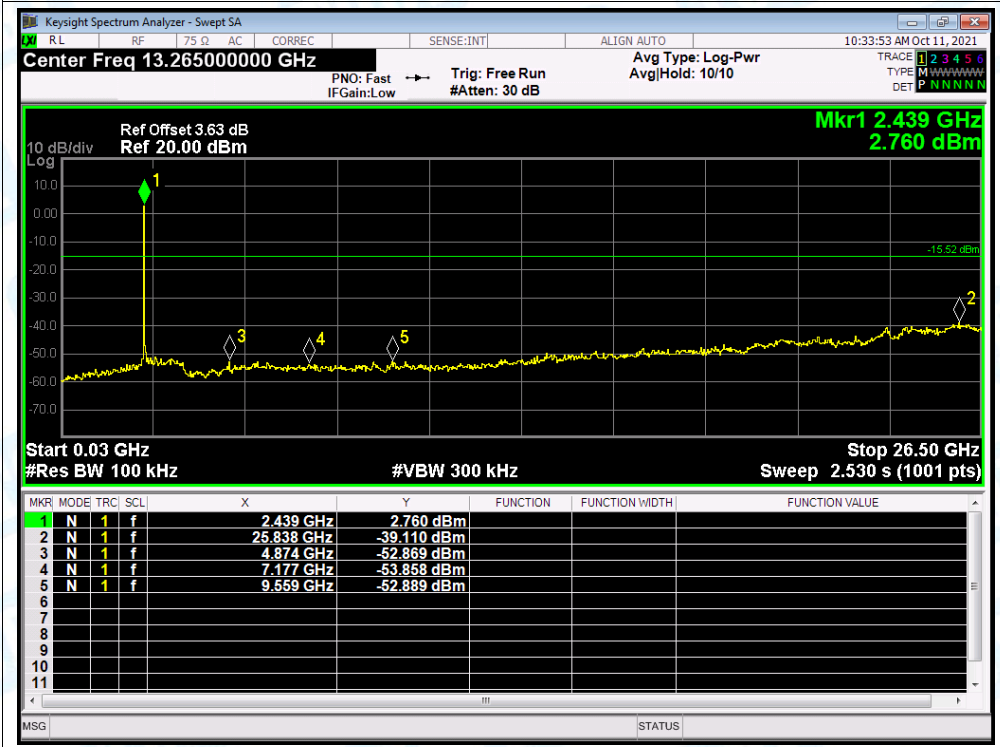
Tx. Spurious NVNT b 2412MHz Ant1 Emission



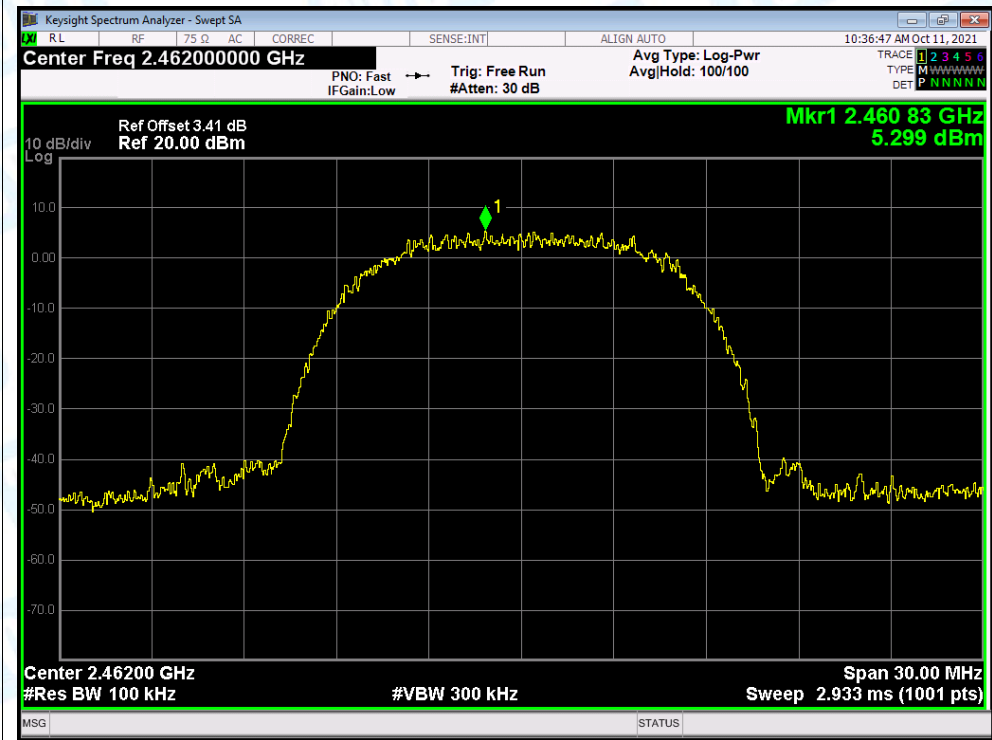
Tx. Spurious NVNT b 2437MHz Ant1 Ref



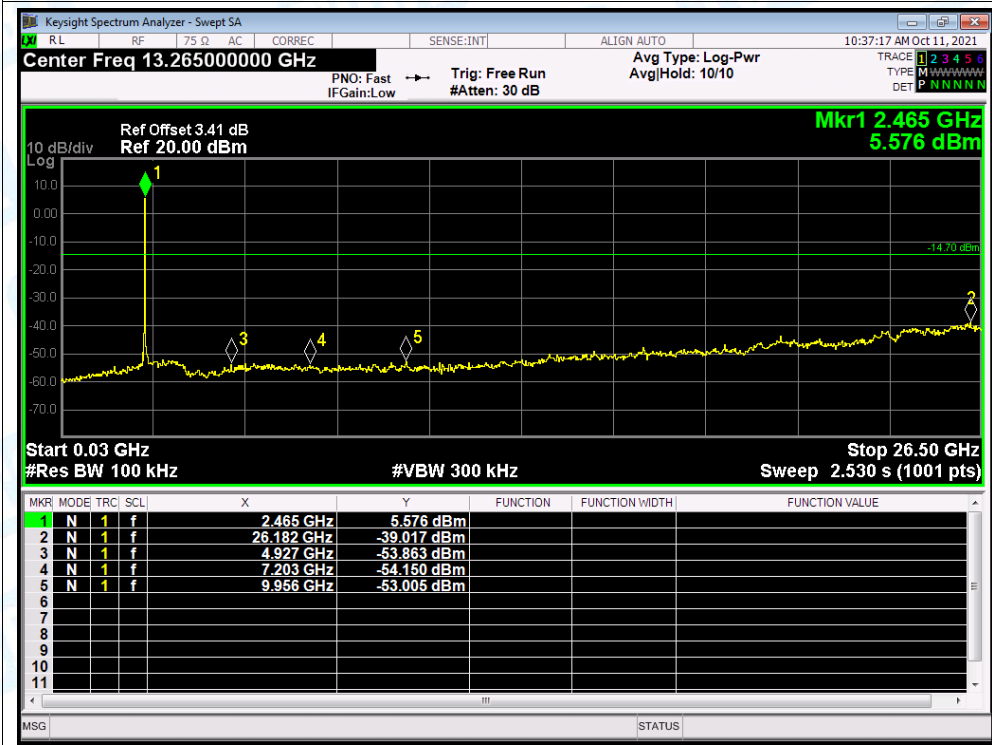
Tx. Spurious NVNT b 2437MHz Ant1 Emission



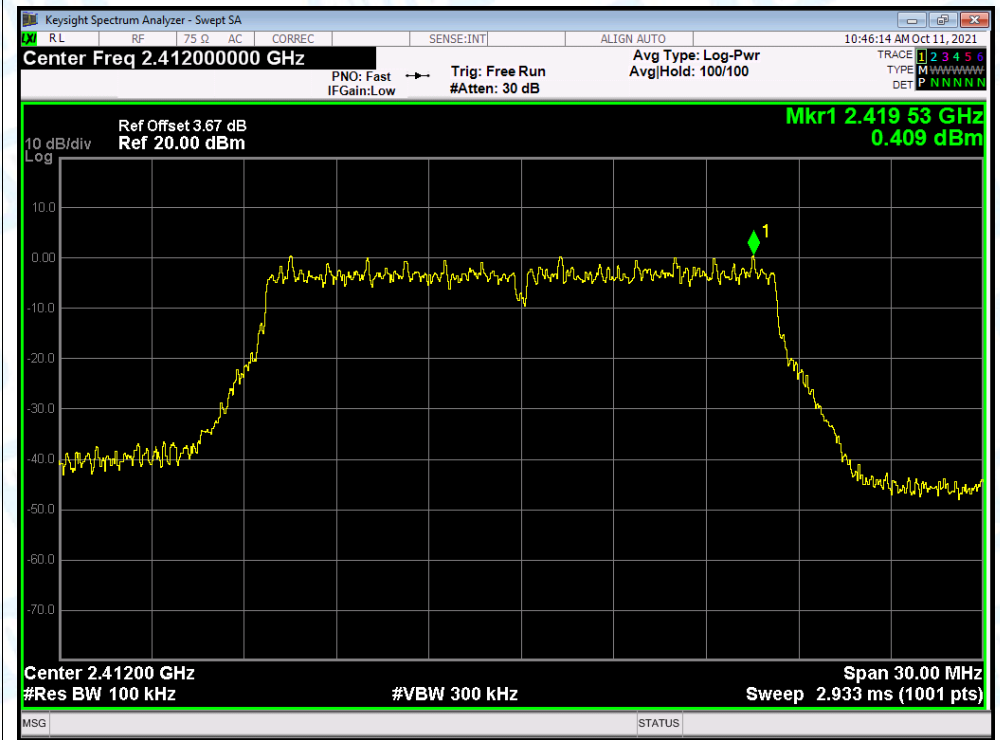
Tx. Spurious NVNT b 2462MHz Ant1 Ref



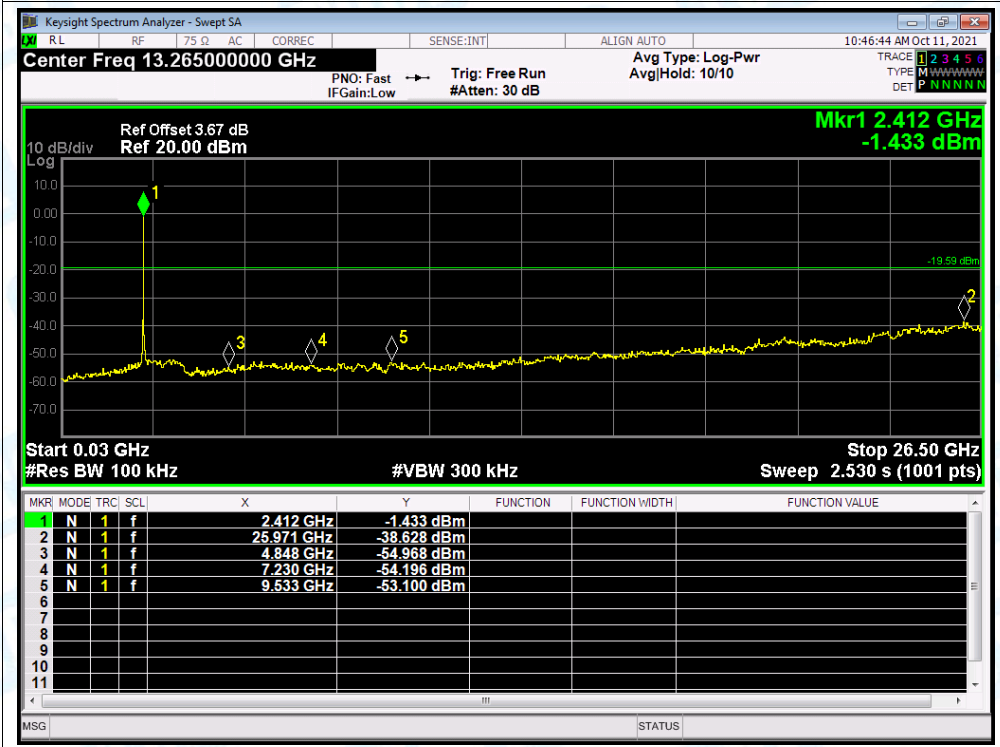
Tx. Spurious NVNT b 2462MHz Ant1 Emission



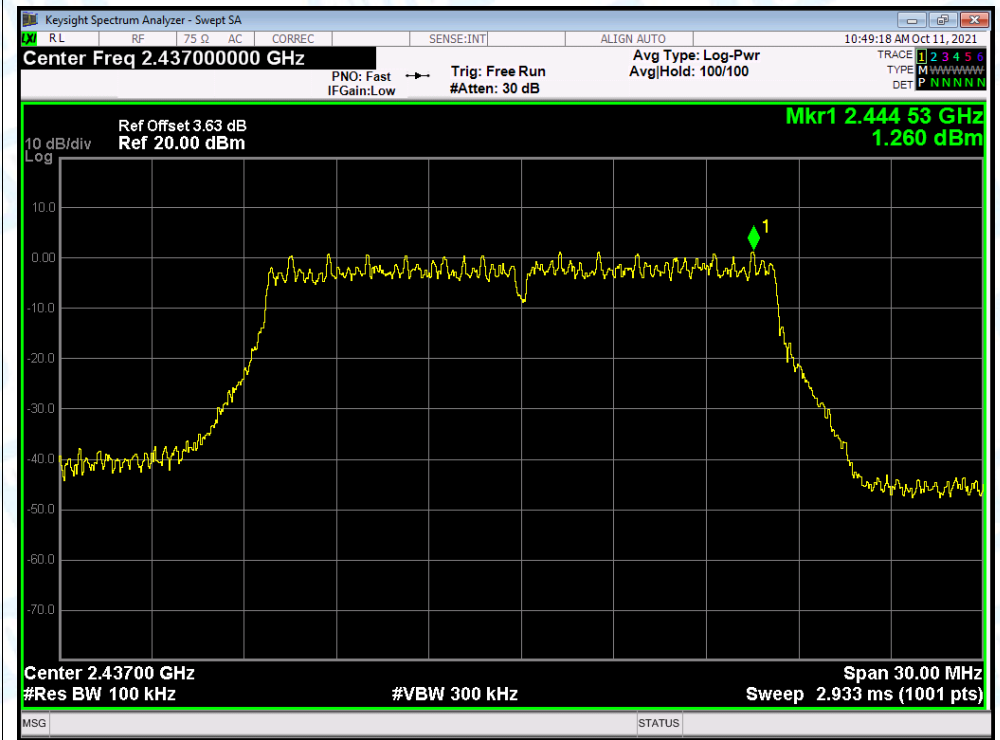
Tx. Spurious NVNT g 2412MHz Ant1 Ref



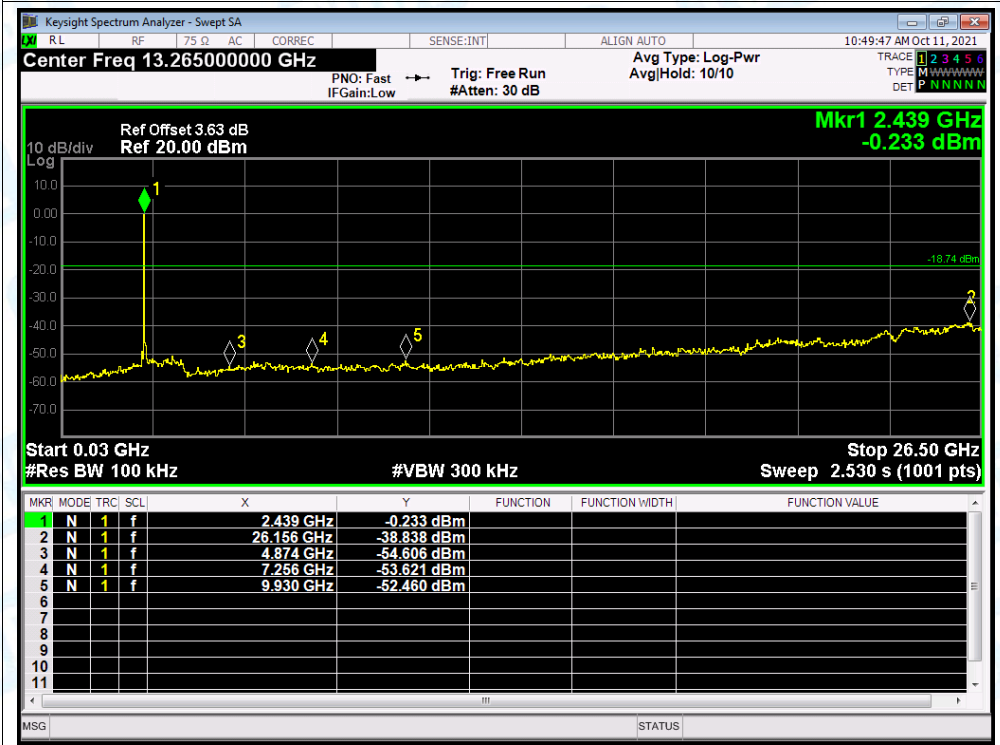
Tx. Spurious NVNT g 2412MHz Ant1 Emission



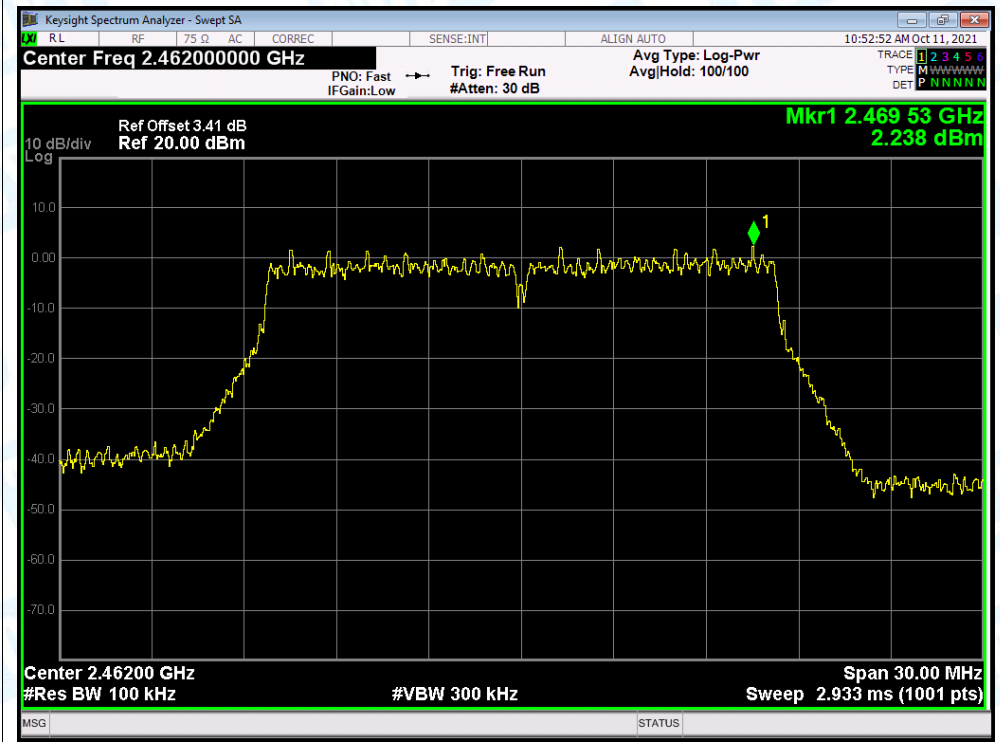
Tx. Spurious NVNT g 2437MHz Ant1 Ref



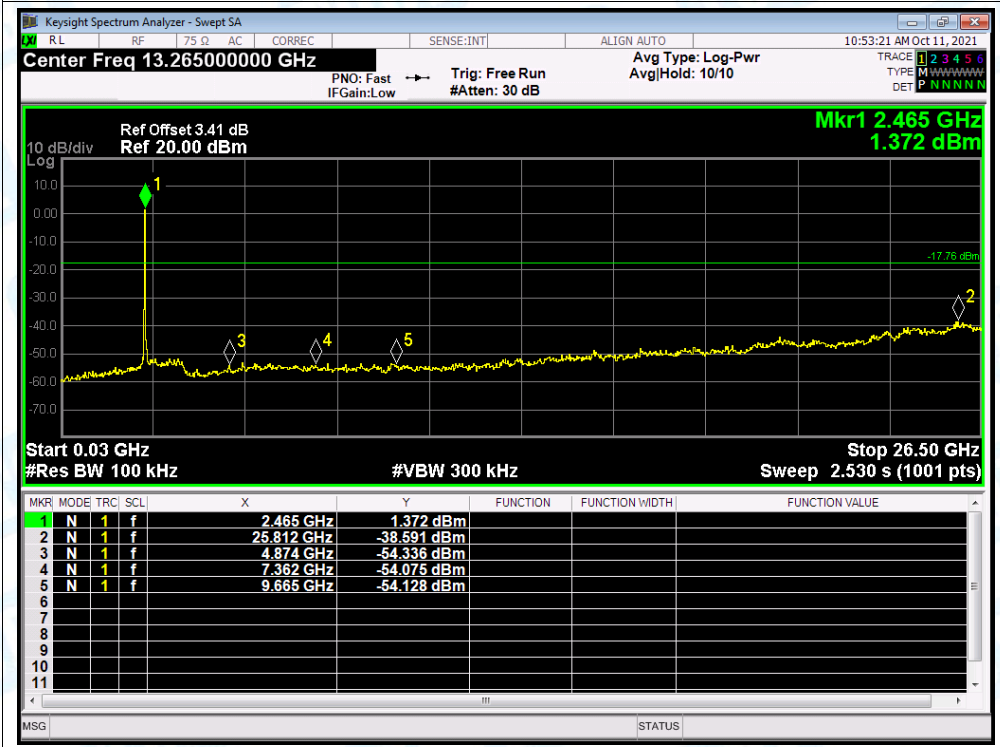
Tx. Spurious NVNT g 2437MHz Ant1 Emission



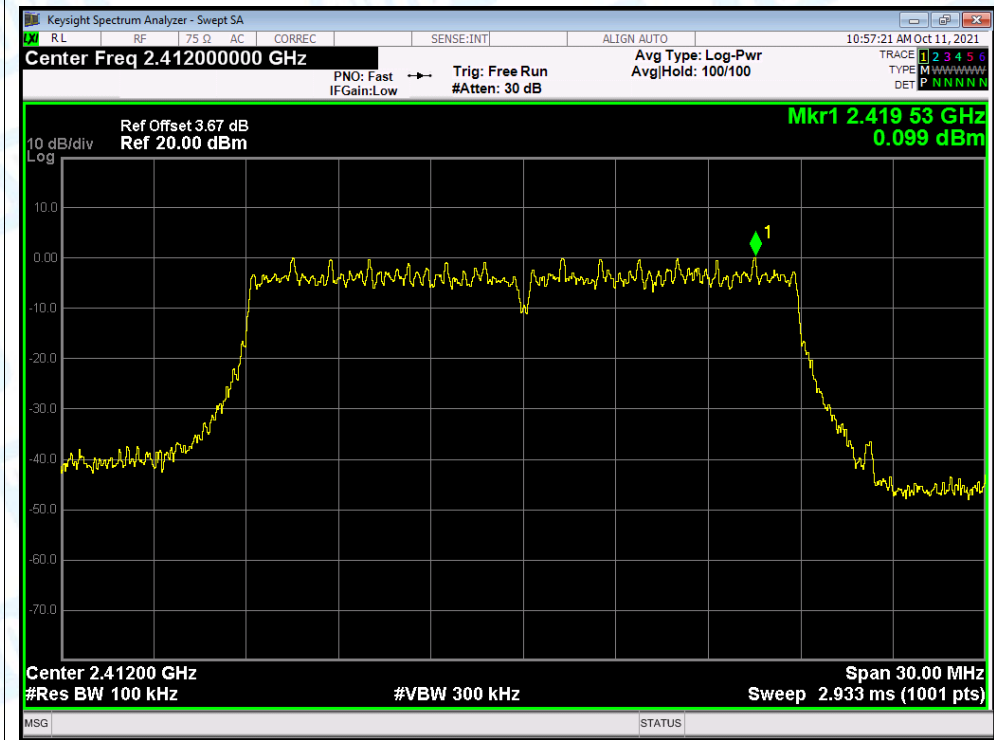
Tx. Spurious NVNT g 2462MHz Ant1 Ref



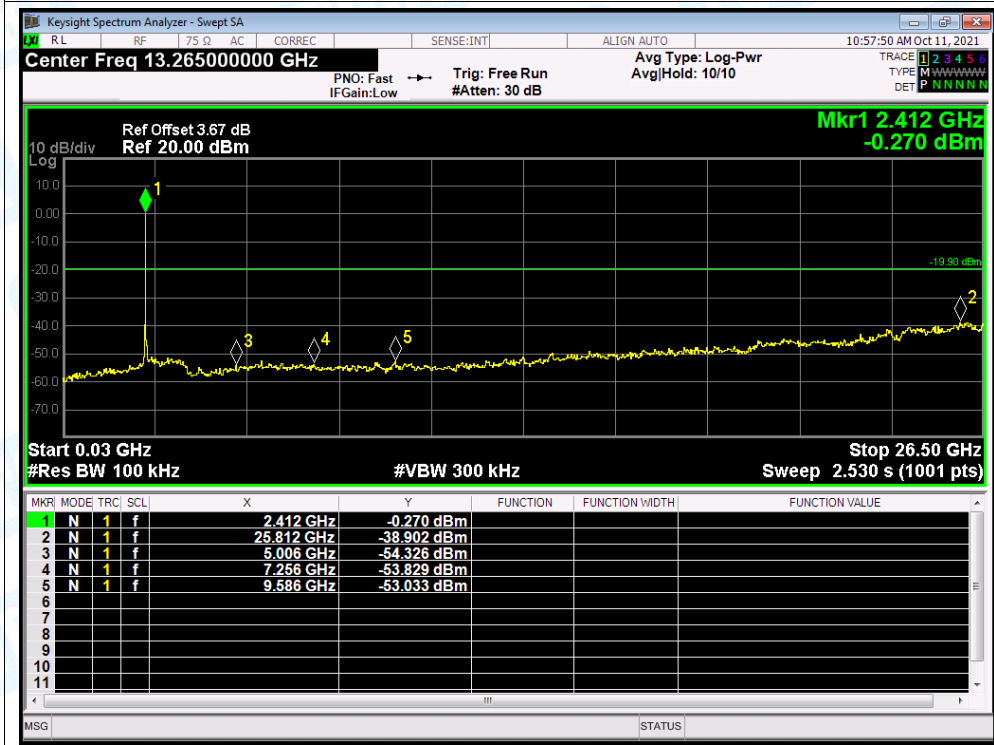
Tx. Spurious NVNT g 2462MHz Ant1 Emission



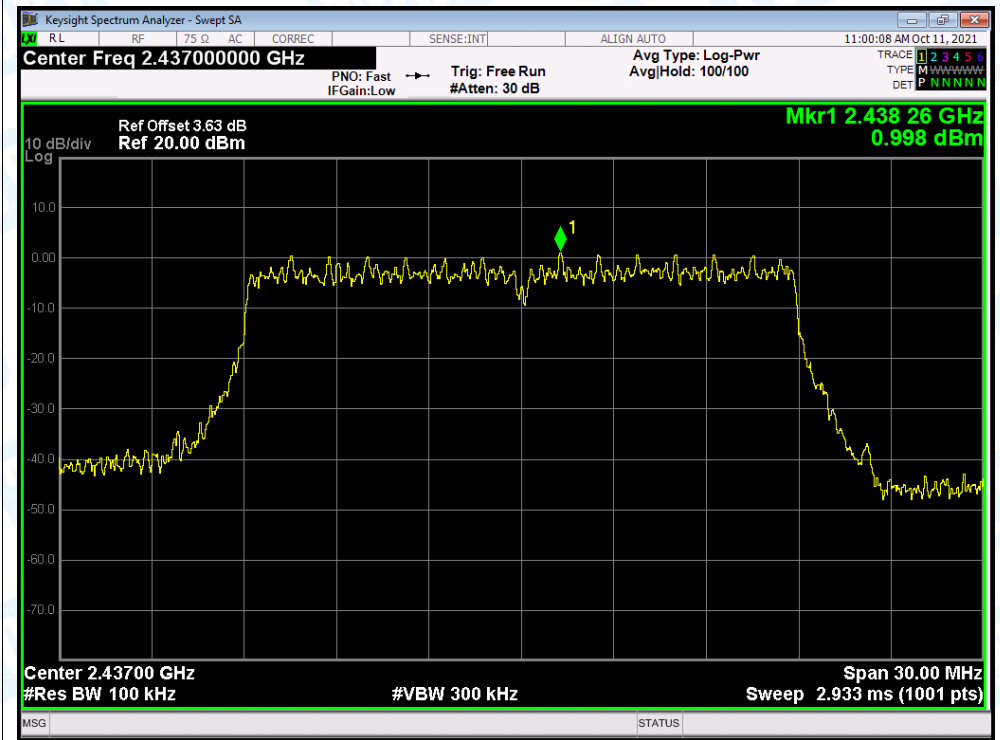
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



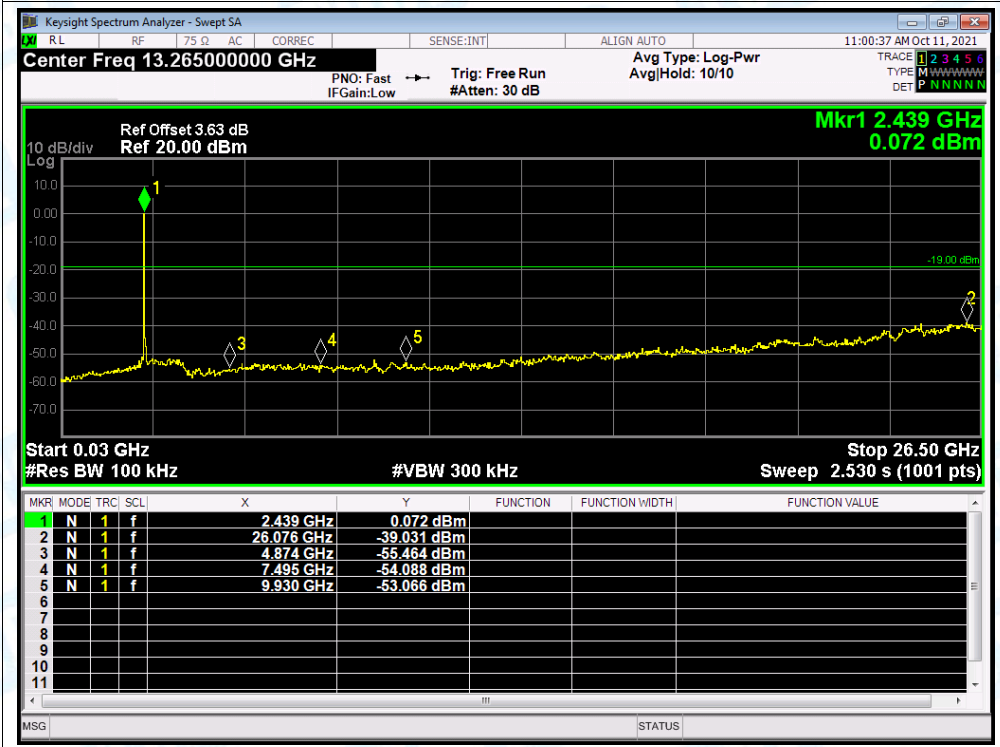
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



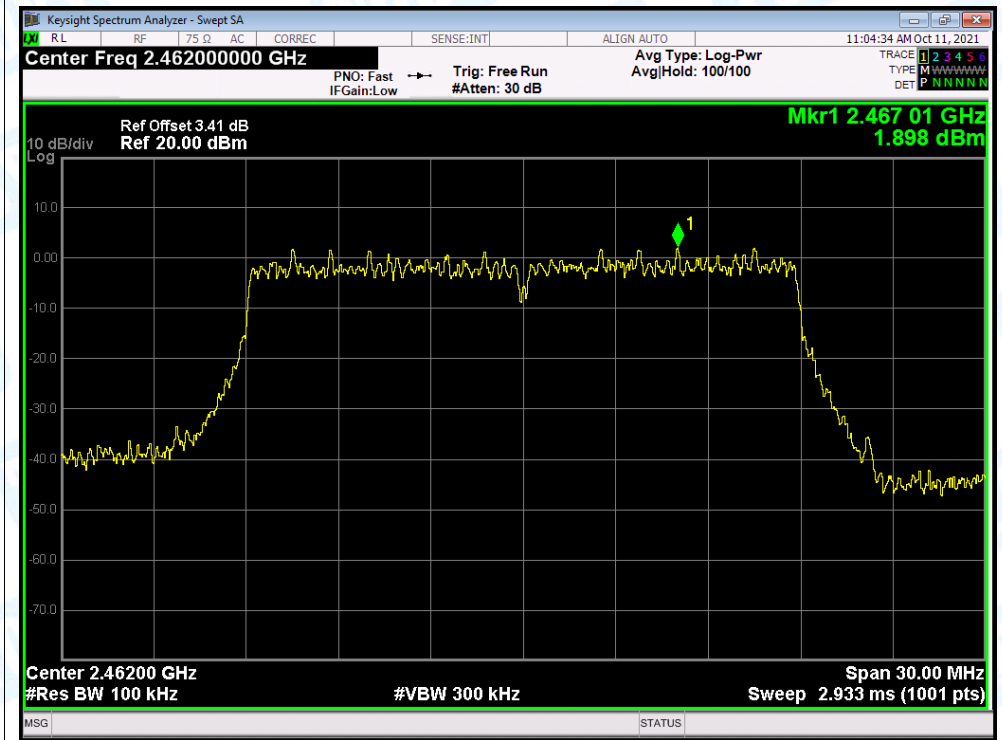
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



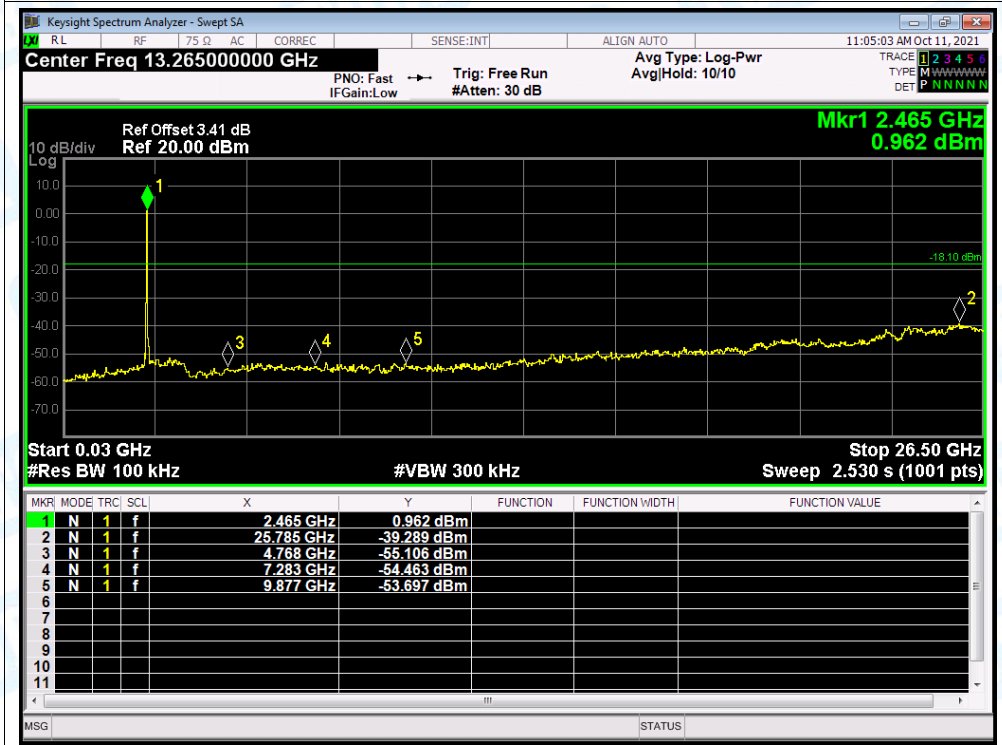
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



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



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

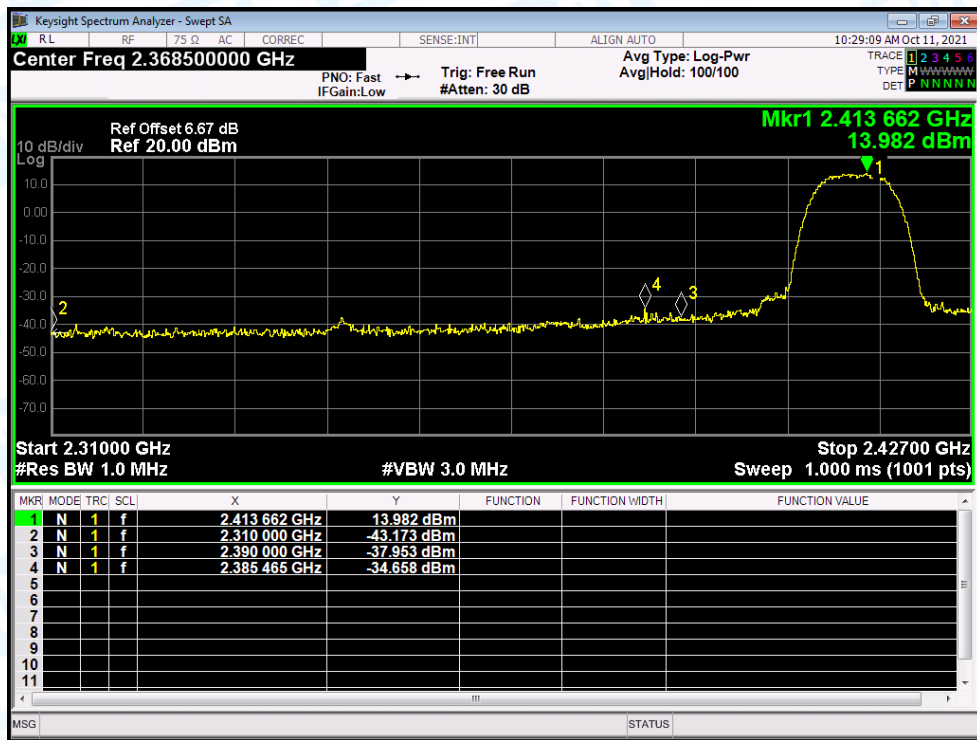


7.Restrict Band

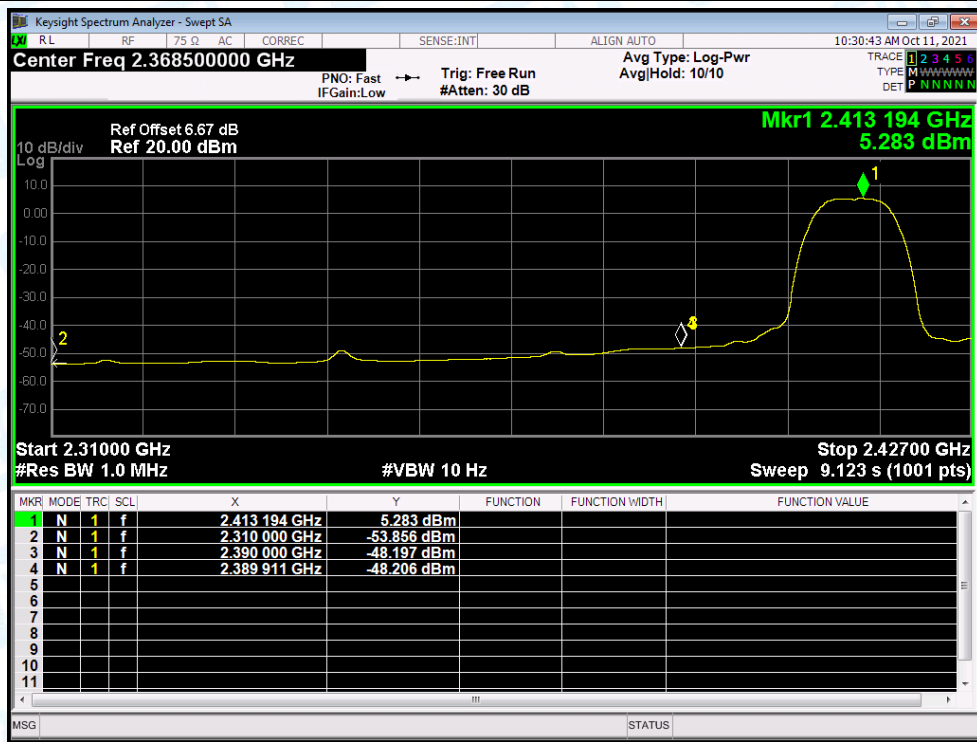
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-43.72	3	54.54	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-53.85	3	44.41	Average	54	Pass
NVNT	b	2412	Ant1	2385.465	-34.65	3	63.61	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-48.2	3	50.06	Average	54	Pass
NVNT	b	2412	Ant1	2390	-37.95	3	60.31	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-48.19	3	50.07	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-36.59	3	61.67	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-46.33	3	51.93	Average	54	Pass
NVNT	b	2462	Ant1	2489.082	-34.08	3	64.18	Peak	74	Pass
NVNT	b	2462	Ant1	2484.1	-46.19	3	52.07	Average	54	Pass
NVNT	b	2462	Ant1	2500	-38.27	3	59.99	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-47.63	3	50.63	Average	54	Pass
NVNT	g	2412	Ant1	2310	-44.17	3	54.09	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-53.86	3	44.4	Average	54	Pass
NVNT	g	2412	Ant1	2389.092	-33.12	3	65.14	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-46.26	3	52	Average	54	Pass
NVNT	g	2412	Ant1	2390	-33.69	3	64.57	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-46.13	3	52.13	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-34.34	3	63.92	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-45.86	3	52.4	Average	54	Pass
NVNT	g	2462	Ant1	2485.16	-33.34	3	64.92	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-45.86	3	52.4	Average	54	Pass
NVNT	g	2462	Ant1	2500	-38.22	3	60.04	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-49.54	3	48.72	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-43.47	3	54.79	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-53.86	3	44.4	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2389.794	-29.37	3	68.89	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-45.44	3	52.82	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-31.7	3	66.56	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-45.34	3	52.92	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-32.99	3	65.27	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-45.43	3	52.83	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-32.99	3	65.27	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-45.43	3	52.83	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-38.52	3	59.74	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-49.31	3	48.95	Average	54	Pass

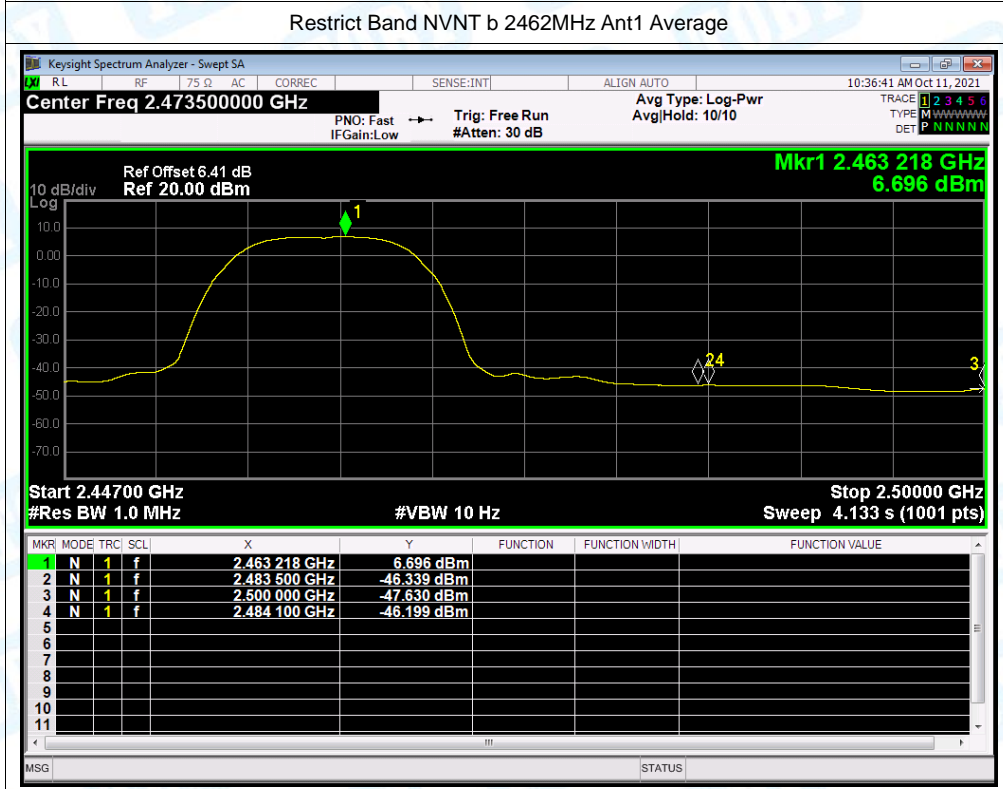
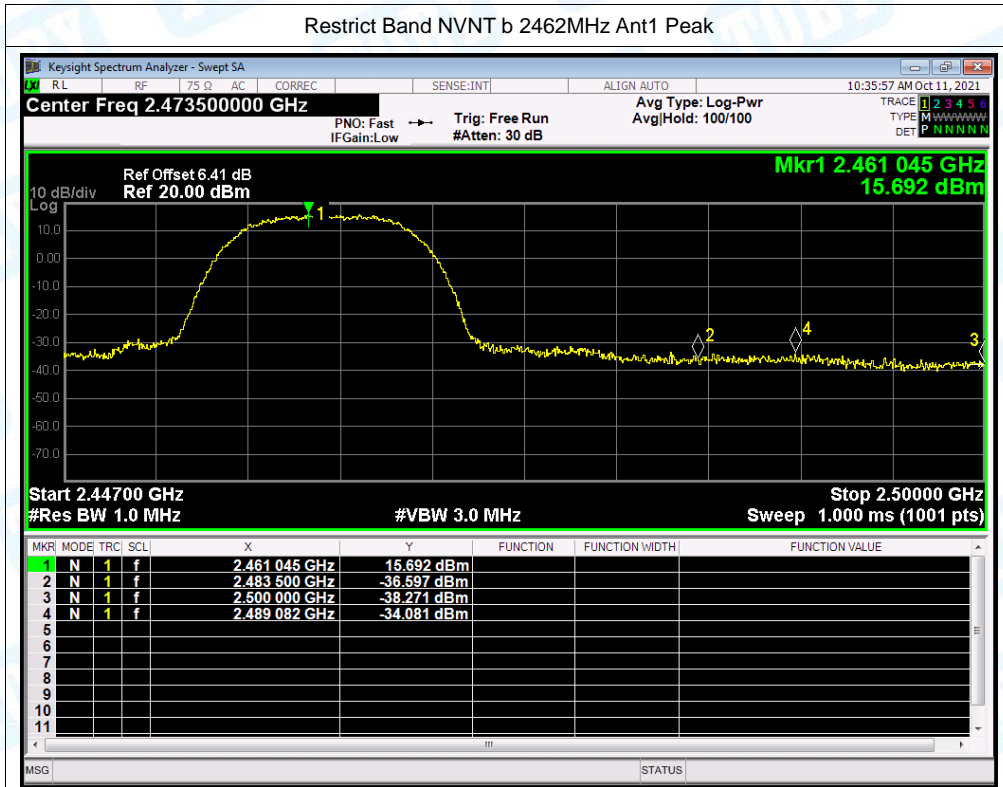
Test Graphs

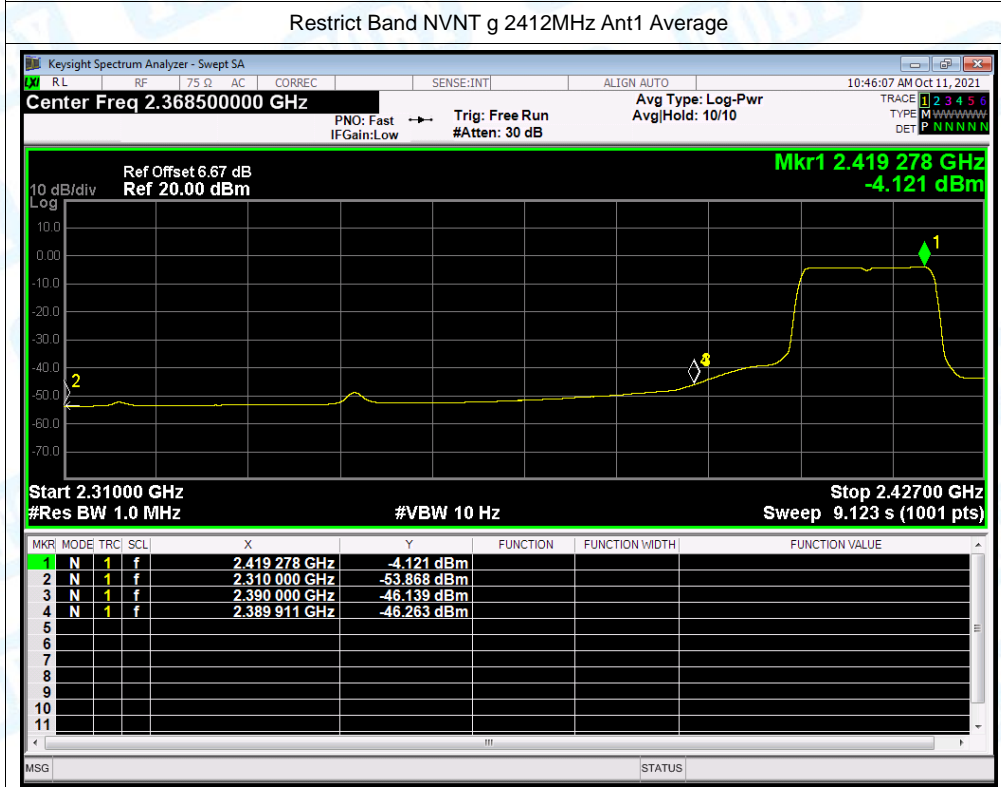
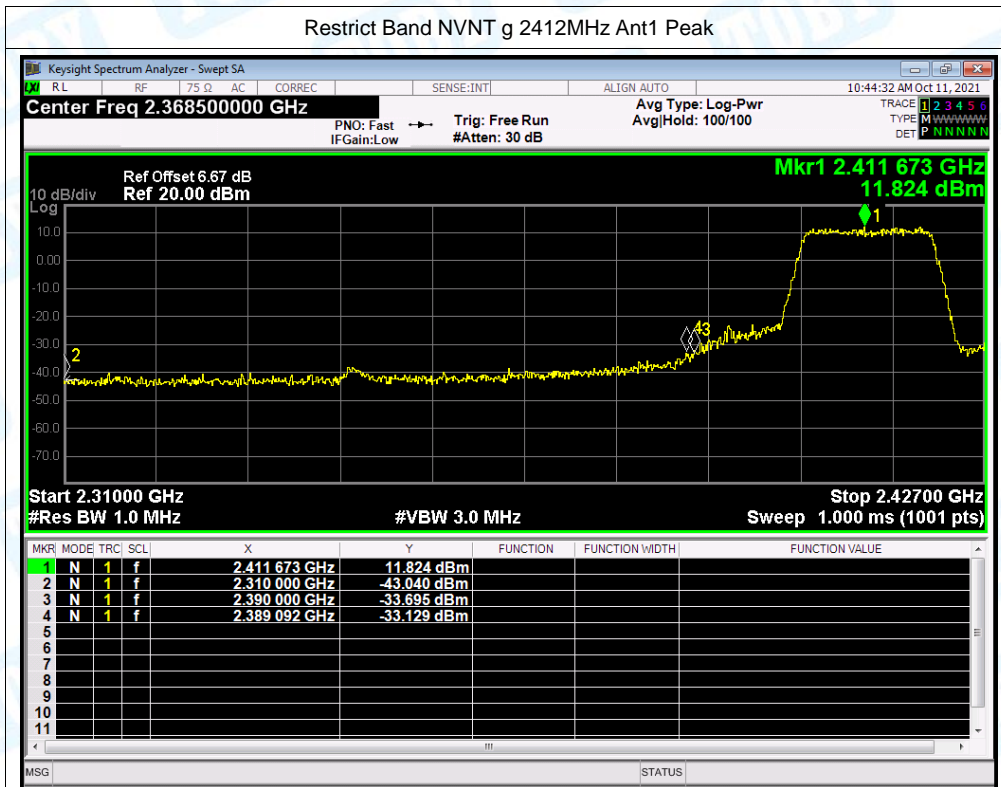
Restrict Band NVNT b 2412MHz Ant1 Peak

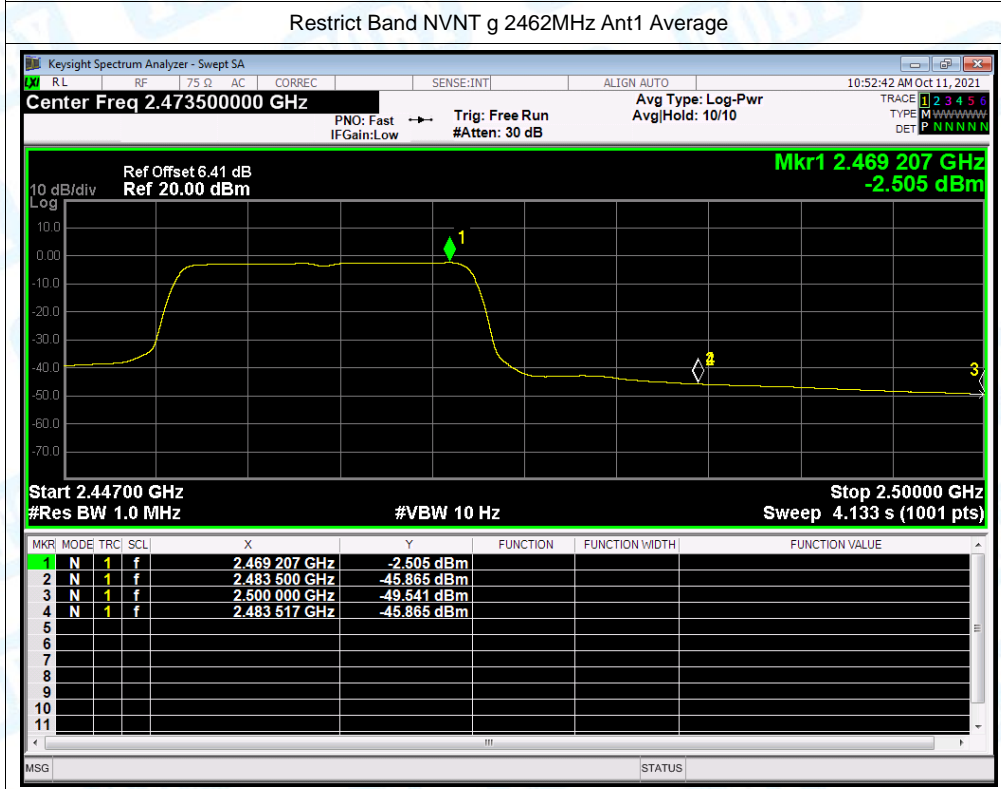
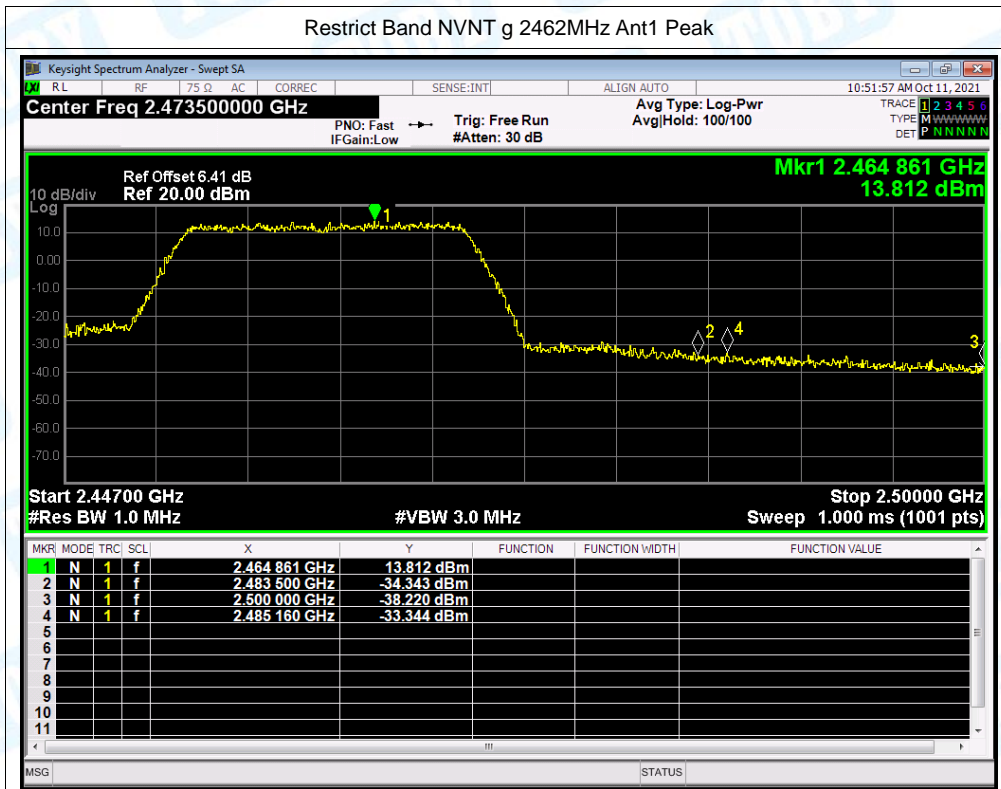


Restrict Band NVNT b 2412MHz Ant1 Average

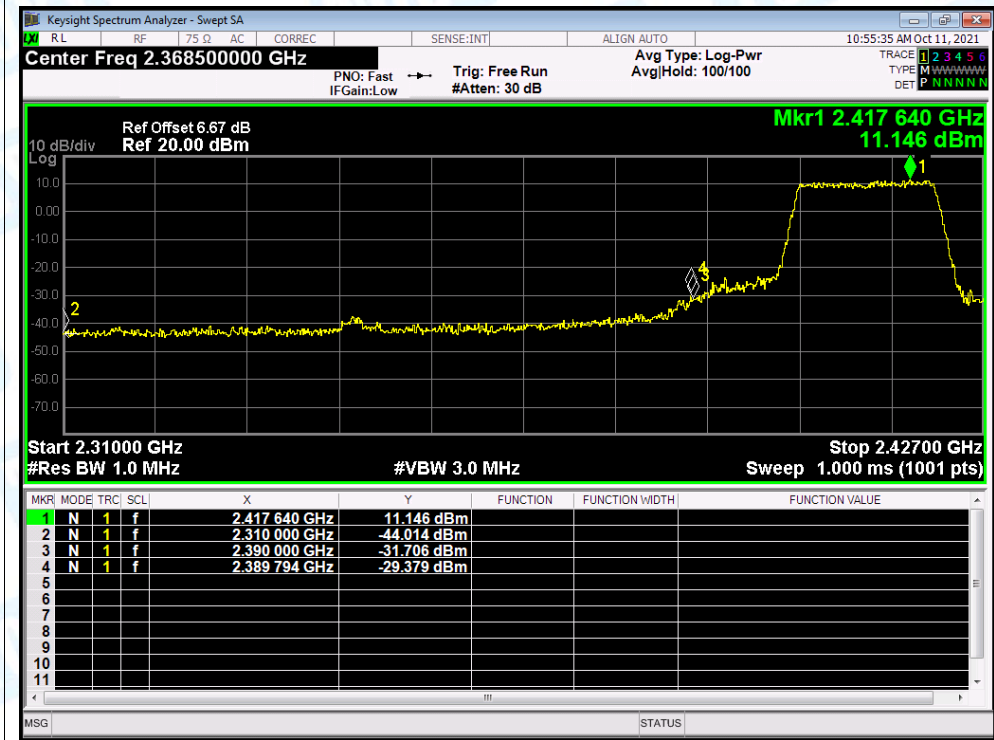








Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



Restrict Band NVNT n(HT20) 2412MHz Ant1 Average

