

RF Test Data for 2.4G WiFi (Conducted Measurements)

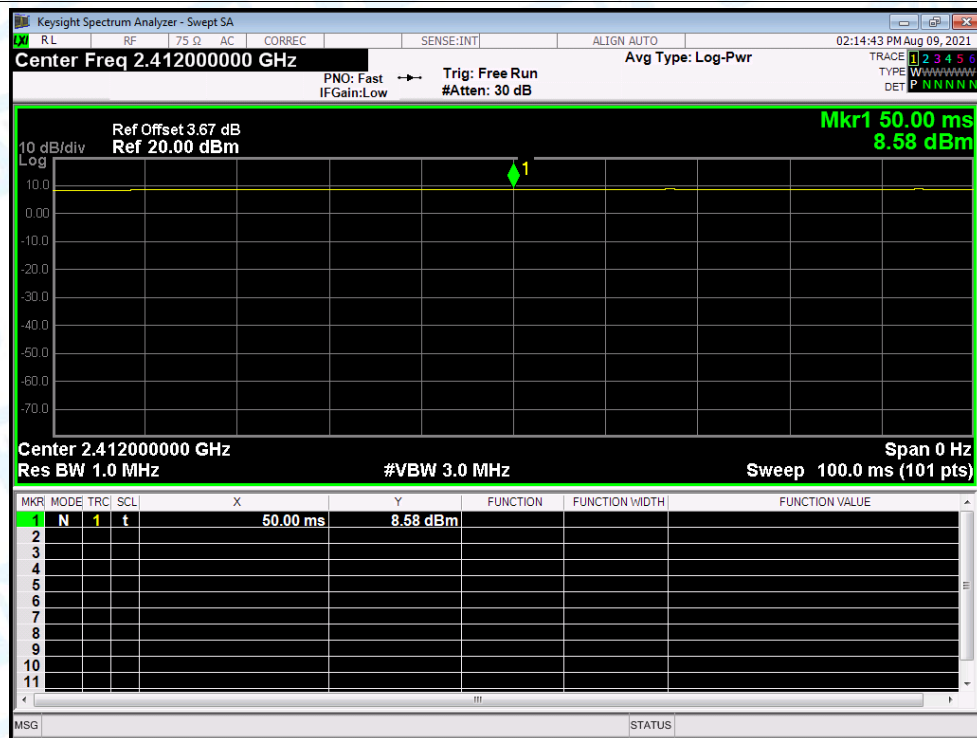
General Description of EUT	
Product Name:	Display Panel
Test Model:	2A23L-NBD-P-10
Sample ID:	20210517-24_01-2
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	HeJingchang
Note: For a more detailed features description, please refer to the report TB-FCC182978.	

Duty Cycle

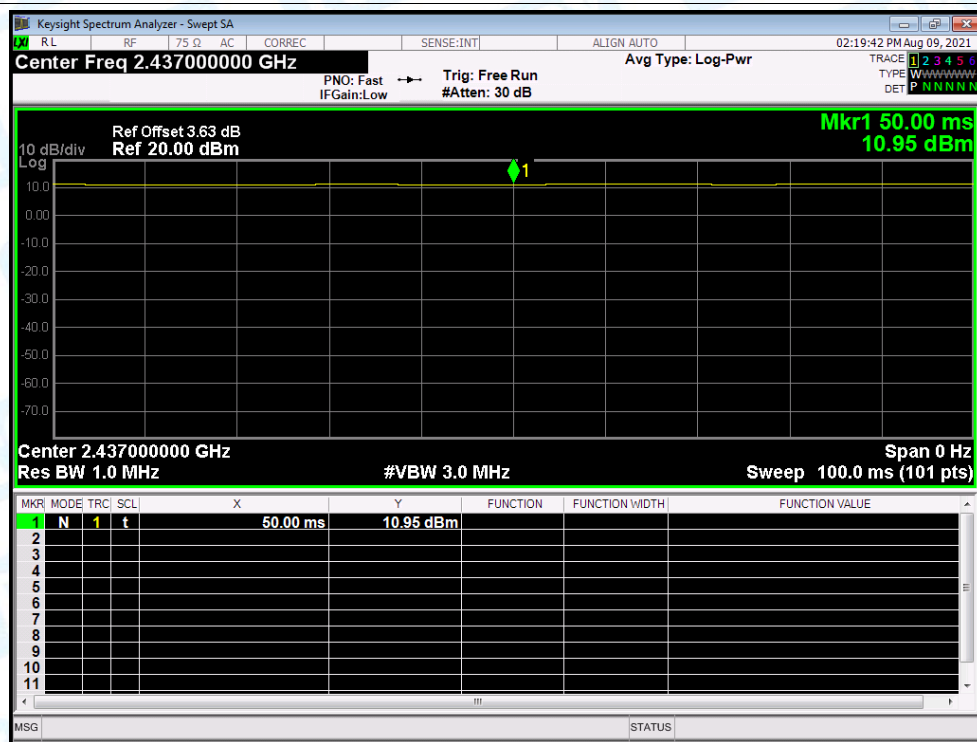
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n(HT20)	2412	Ant1	100	0	0
NVNT	n(HT20)	2437	Ant1	100	0	0
NVNT	n(HT20)	2462	Ant1	100	0	0
NVNT	n(HT40)	2422	Ant1	100	0	0
NVNT	n(HT40)	2437	Ant1	100	0	0
NVNT	n(HT40)	2452	Ant1	100	0	0

Test Graphs

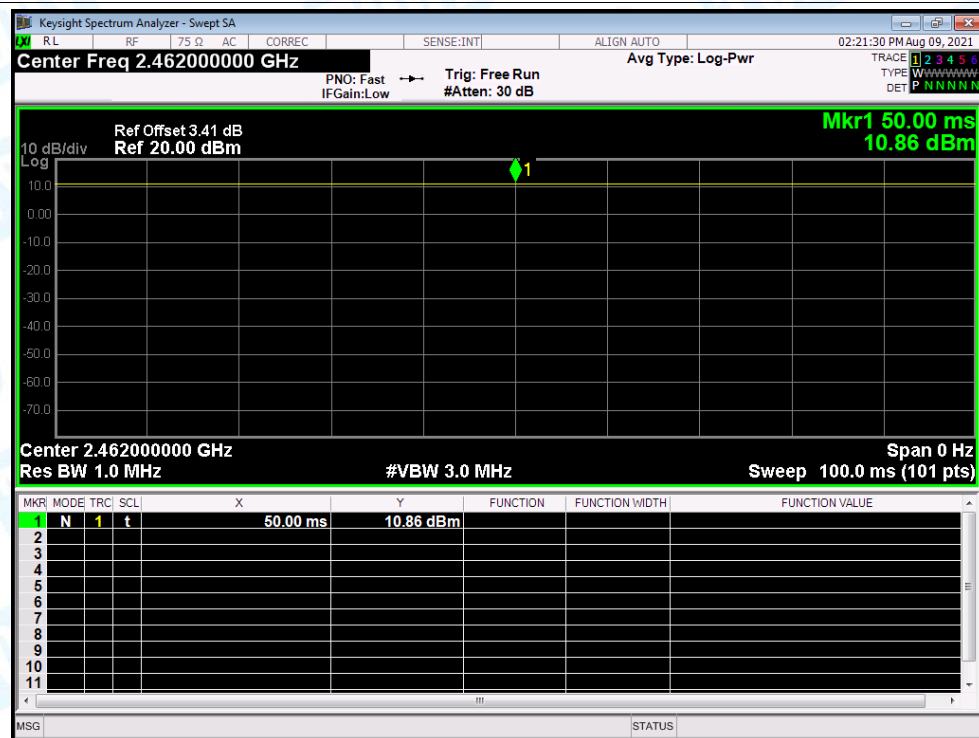
Duty Cycle NVNT b 2412MHz Ant1



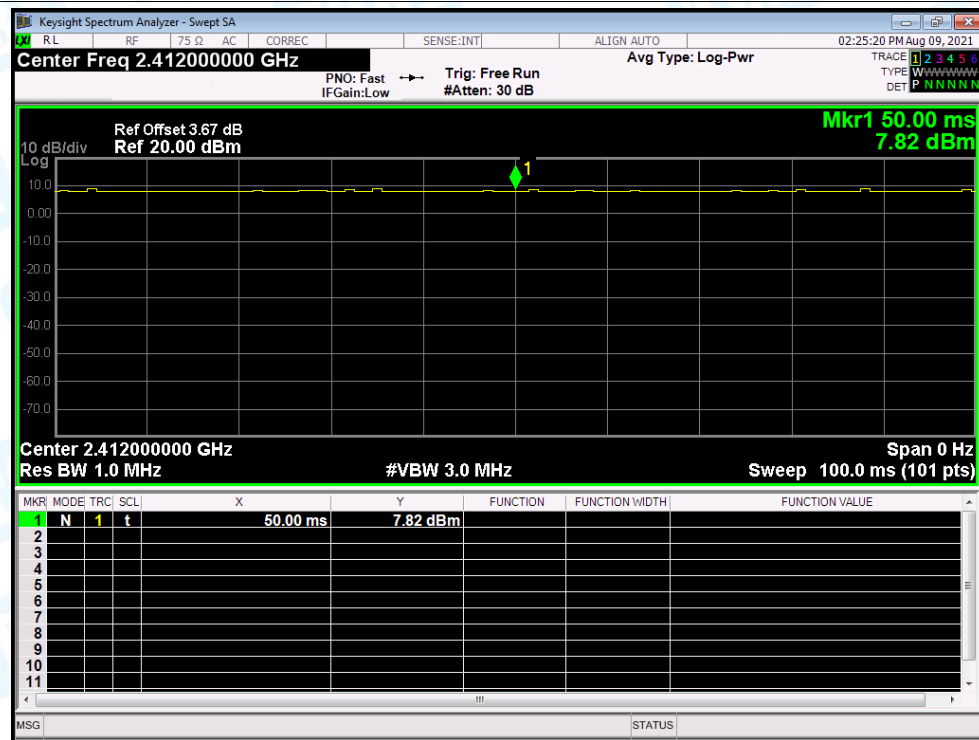
Duty Cycle NVNT b 2437MHz Ant1



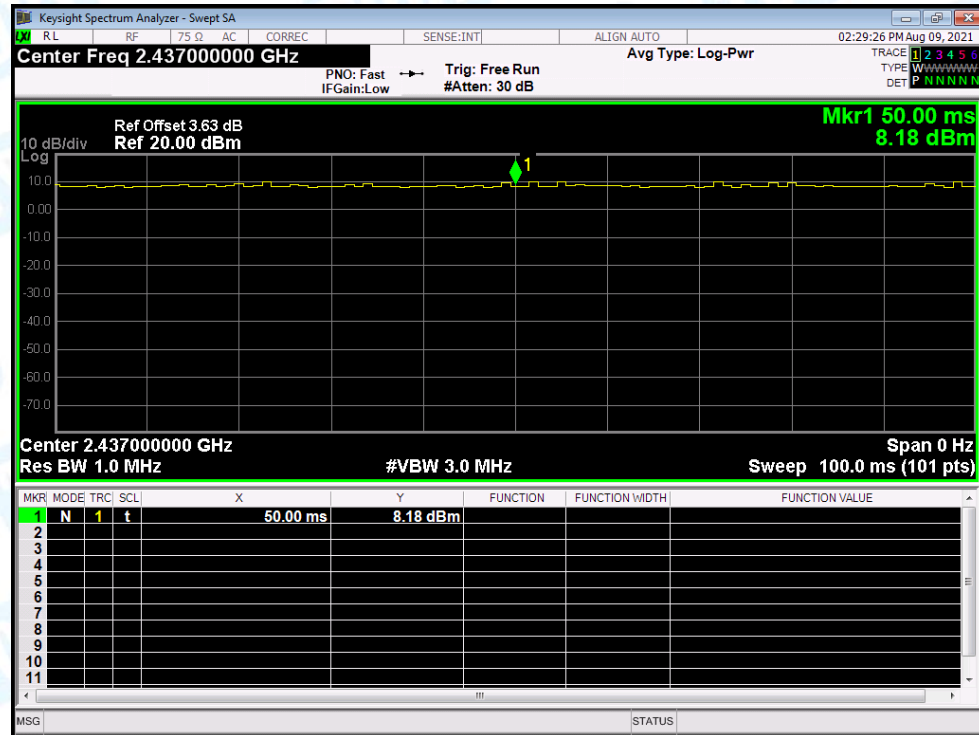
Duty Cycle NVNT b 2462MHz Ant1



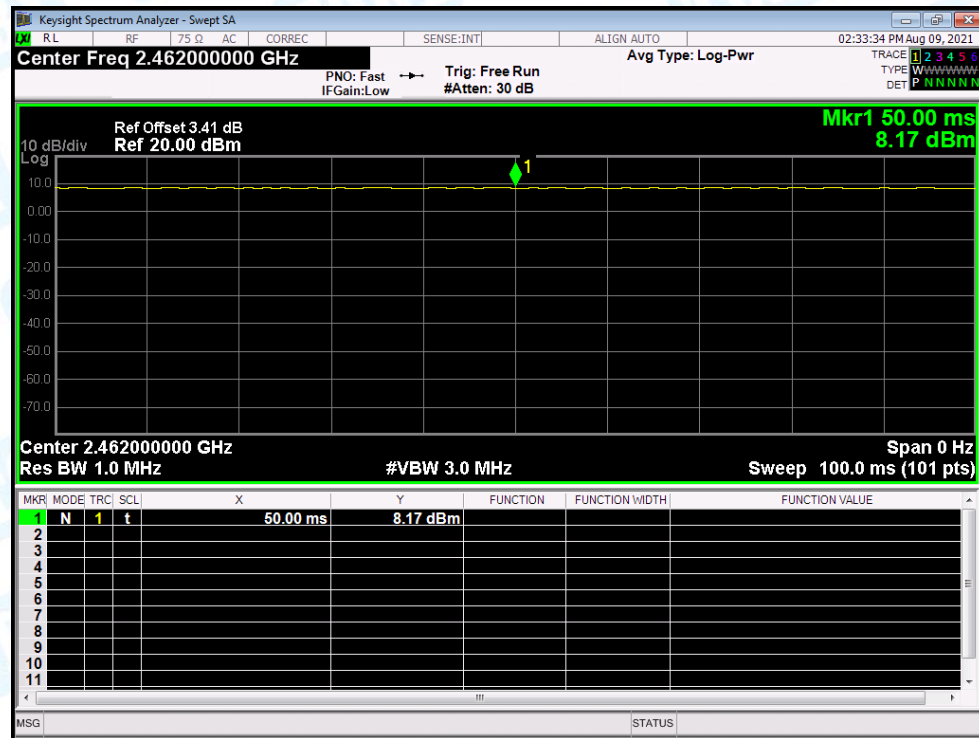
Duty Cycle NVNT g 2412MHz Ant1



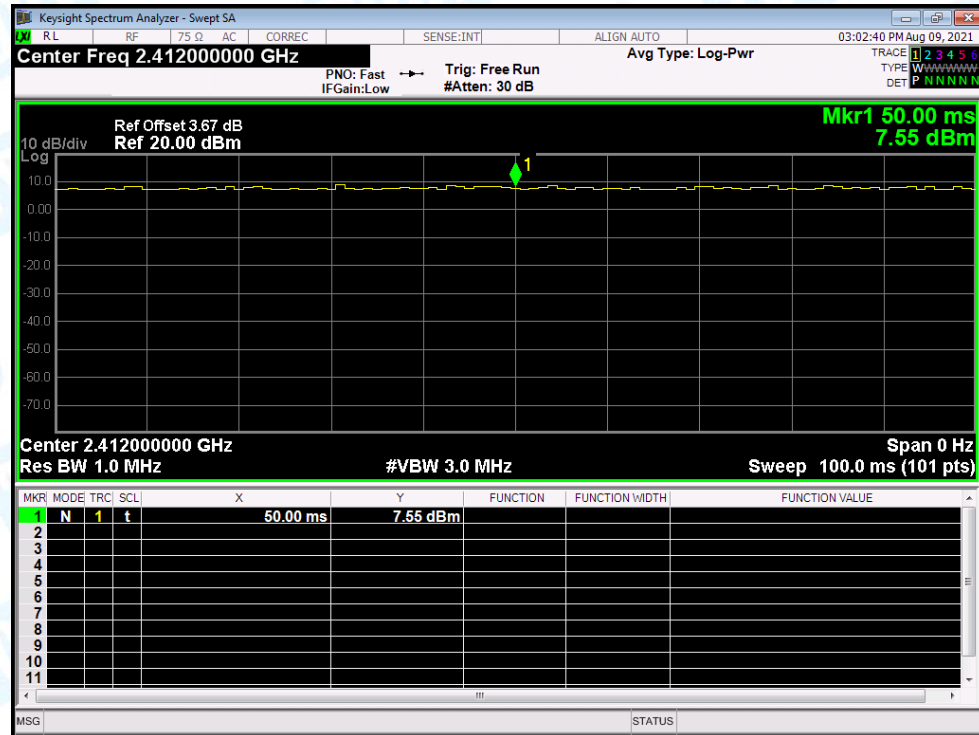
Duty Cycle NVNT g 2437MHz Ant1



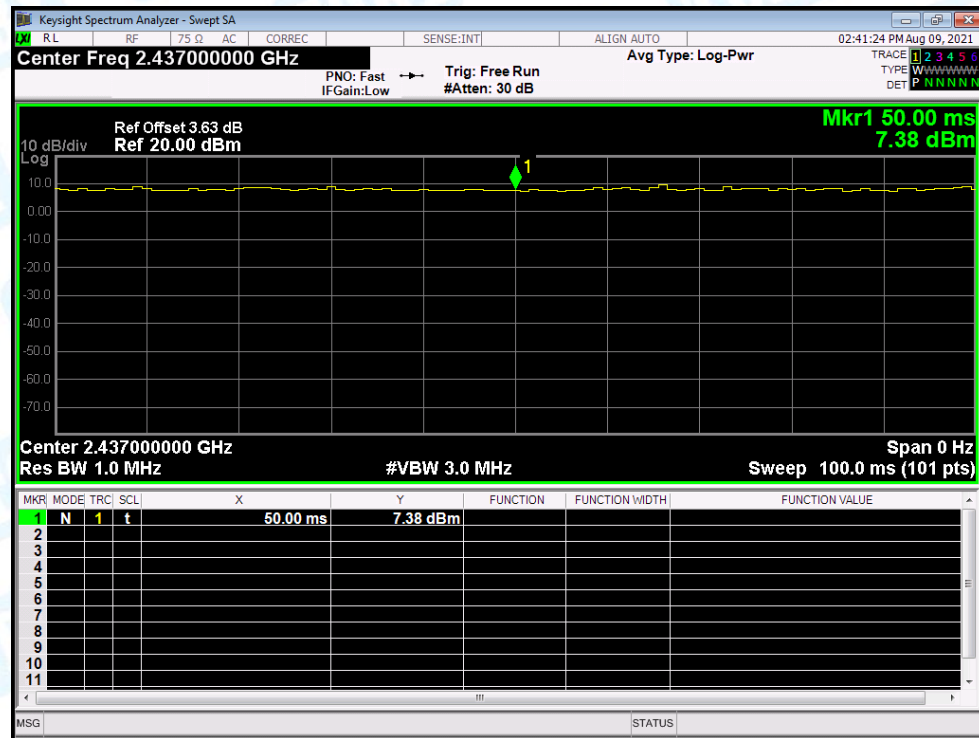
Duty Cycle NVNT g 2462MHz Ant1



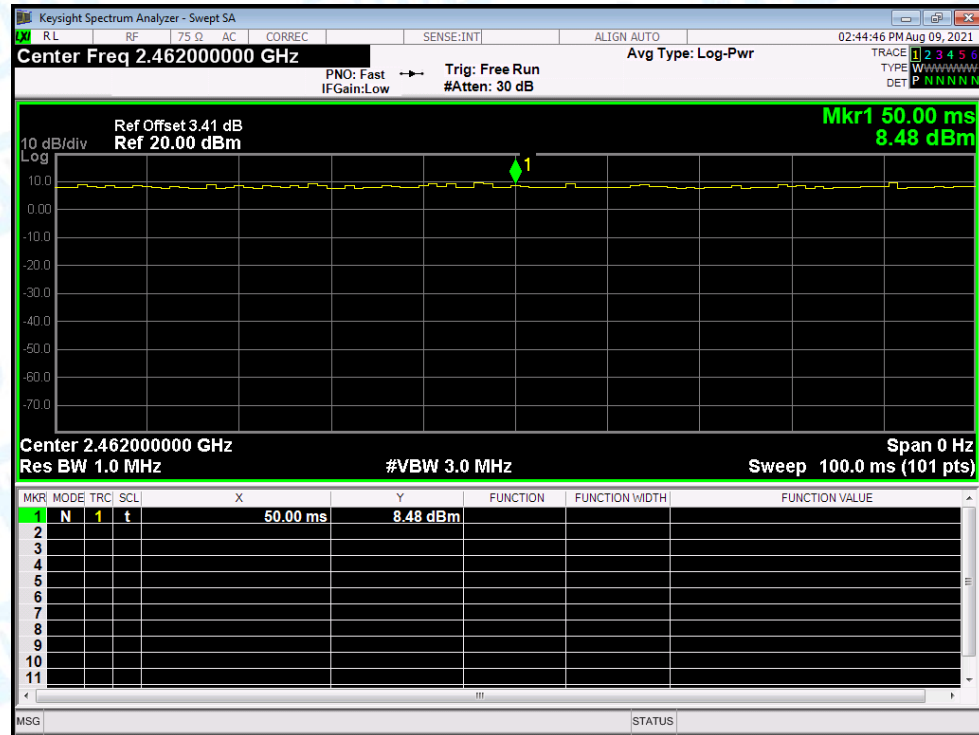
Duty Cycle NVNT n(HT20) 2412MHz Ant1



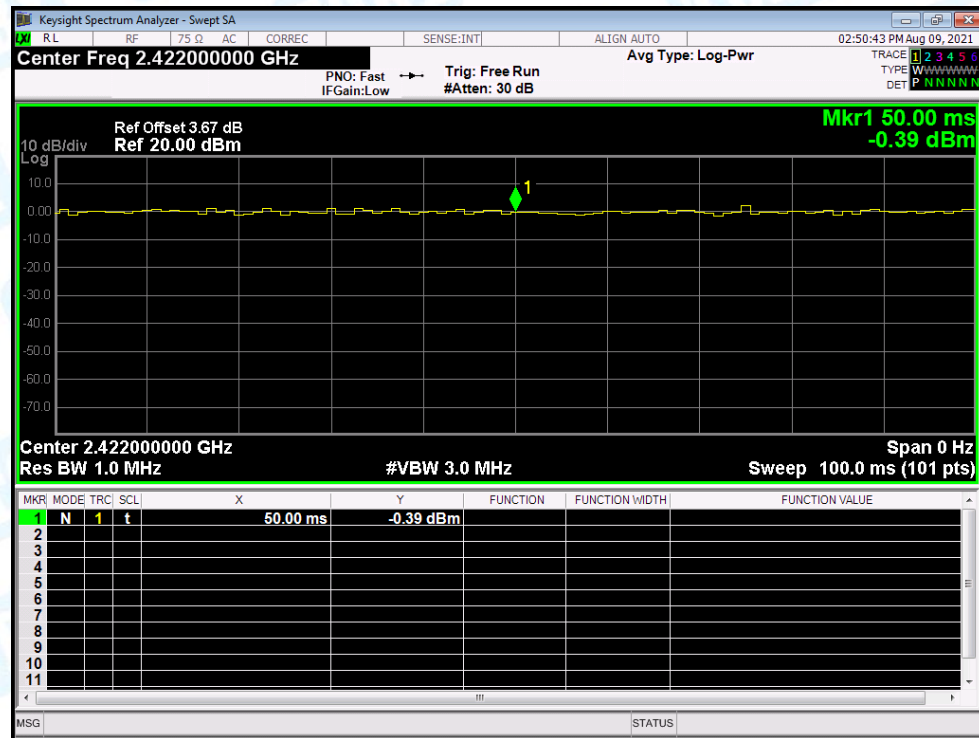
Duty Cycle NVNT n(HT20) 2437MHz Ant1



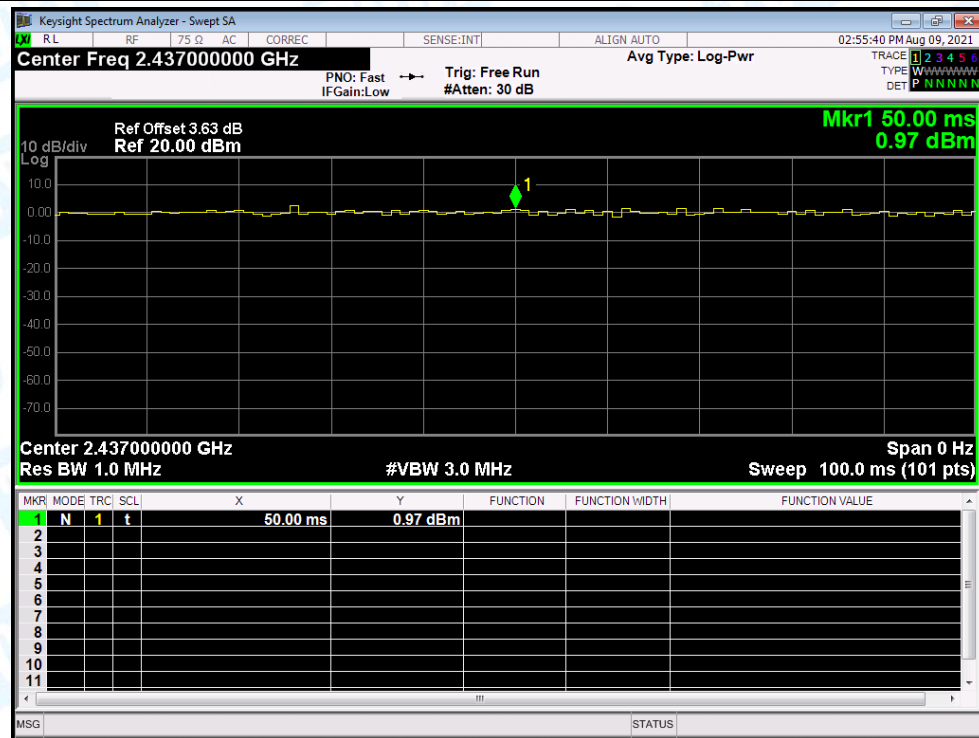
Duty Cycle NVNT n(HT20) 2462MHz Ant1



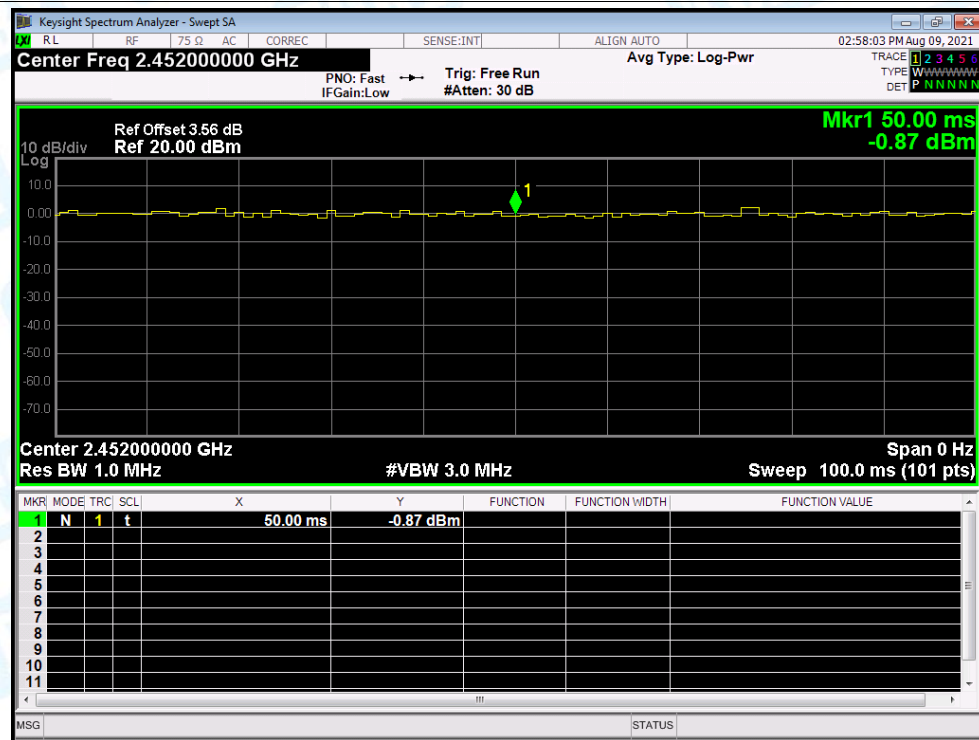
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



Maximum Conducted Output Power

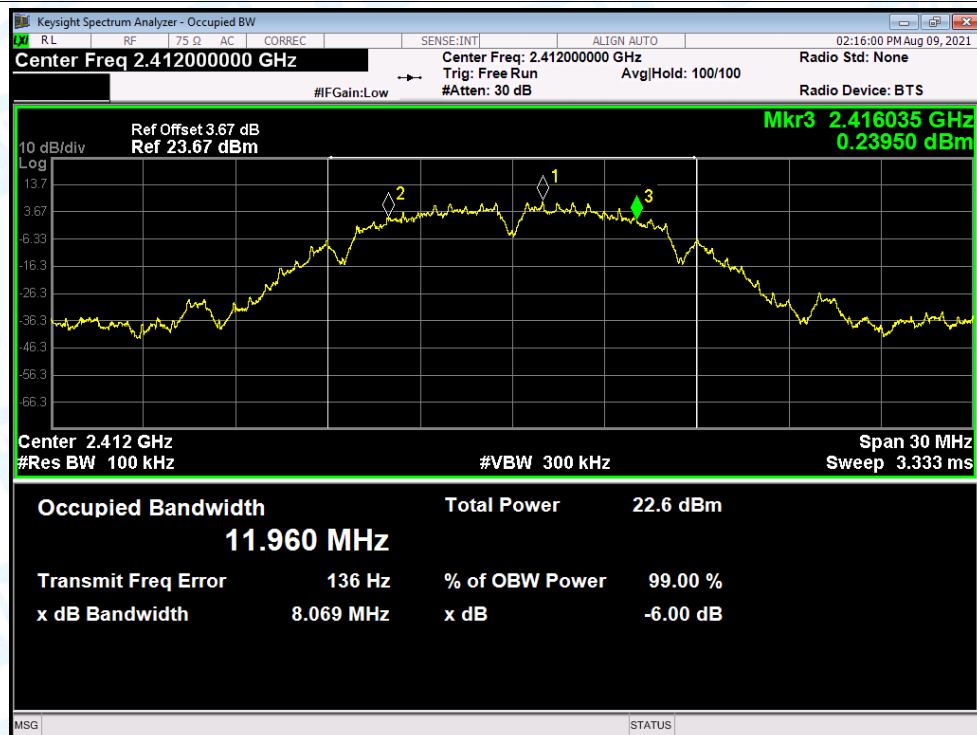
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.572	0	17.572	30	Pass
NVNT	b	2437	Ant1	17.958	0	17.958	30	Pass
NVNT	b	2462	Ant1	17.815	0	17.815	30	Pass
NVNT	g	2412	Ant1	15.761	0	15.761	30	Pass
NVNT	g	2437	Ant1	16.016	0	16.016	30	Pass
NVNT	g	2462	Ant1	16.034	0	16.034	30	Pass
NVNT	n(HT20)	2412	Ant1	15.413	0	15.413	30	Pass
NVNT	n(HT20)	2437	Ant1	15.65	0	15.65	30	Pass
NVNT	n(HT20)	2462	Ant1	15.756	0	15.756	30	Pass
NVNT	n(HT40)	2422	Ant1	12.194	0	12.194	30	Pass
NVNT	n(HT40)	2437	Ant1	12.583	0	12.583	30	Pass
NVNT	n(HT40)	2452	Ant1	12.123	0	12.123	30	Pass

-6dB Bandwidth

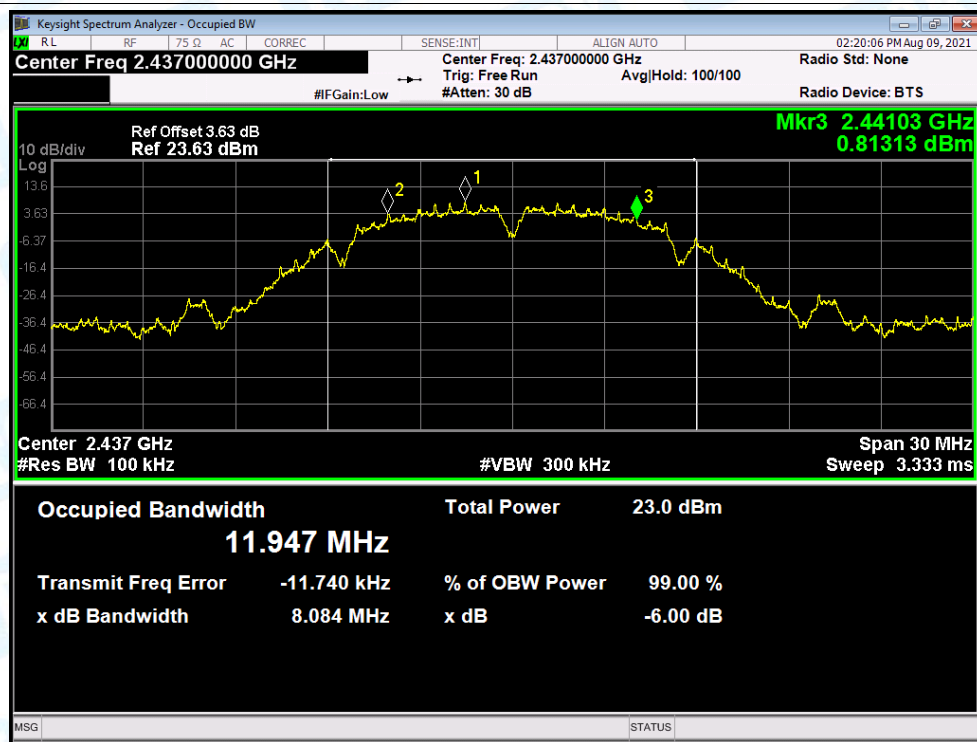
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.069	0.5	Pass
NVNT	b	2437	Ant1	8.084	0.5	Pass
NVNT	b	2462	Ant1	8.539	0.5	Pass
NVNT	g	2412	Ant1	16.296	0.5	Pass
NVNT	g	2437	Ant1	16.318	0.5	Pass
NVNT	g	2462	Ant1	16.026	0.5	Pass
NVNT	n(HT20)	2412	Ant1	16.534	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.001	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.923	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.48	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.497	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.157	0.5	Pass

Test Graphs

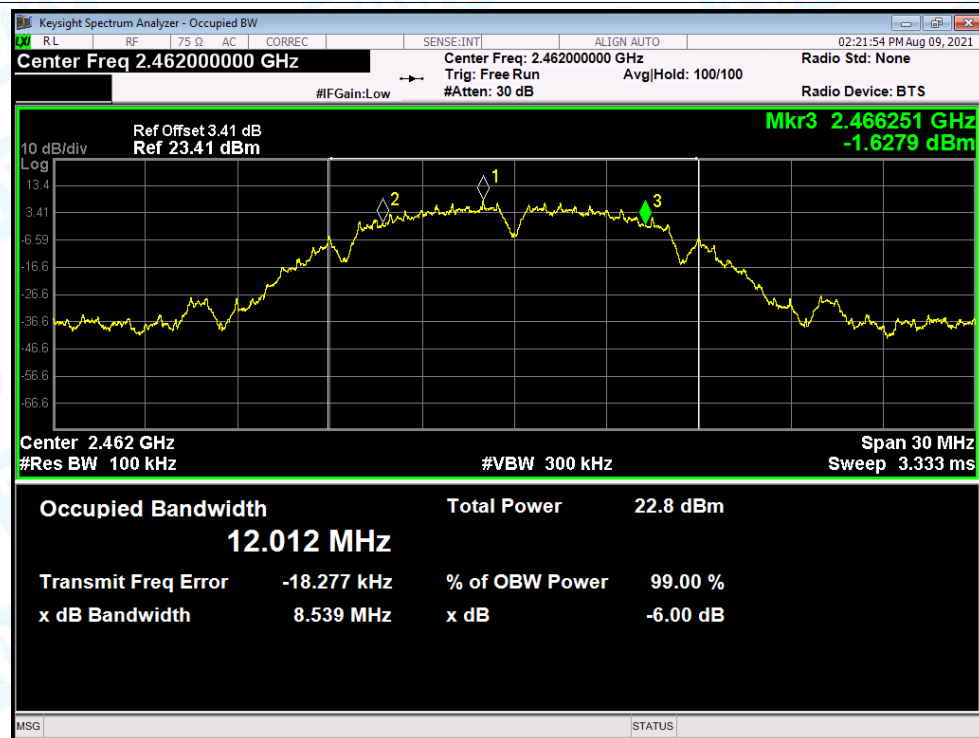
-6dB Bandwidth NVNT b 2412MHz Ant1



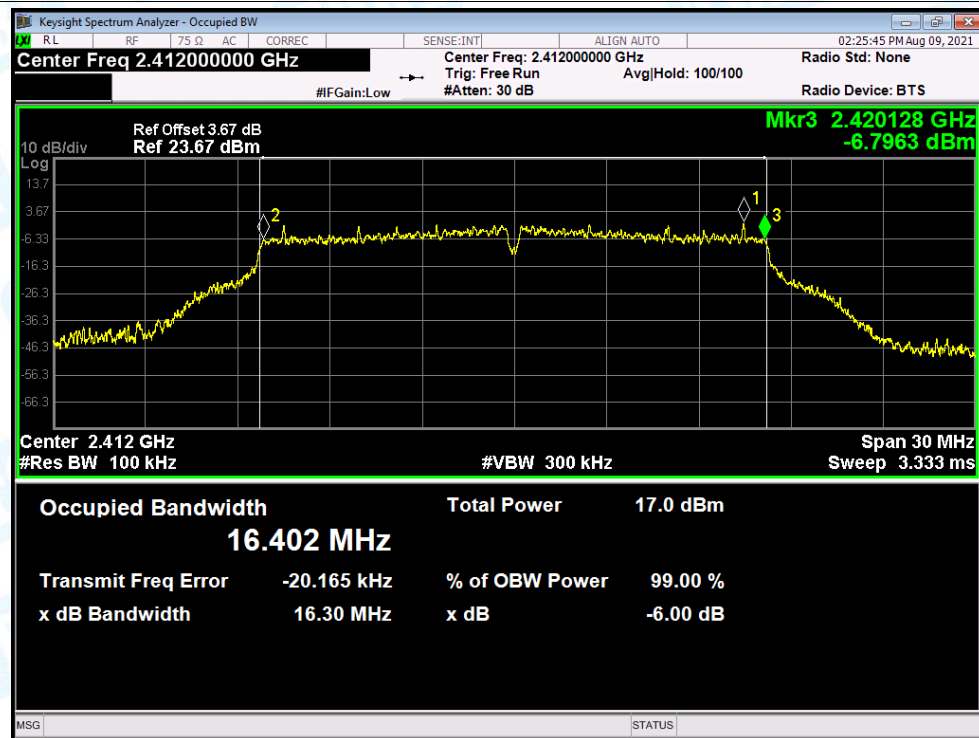
-6dB Bandwidth NVNT b 2437MHz Ant1



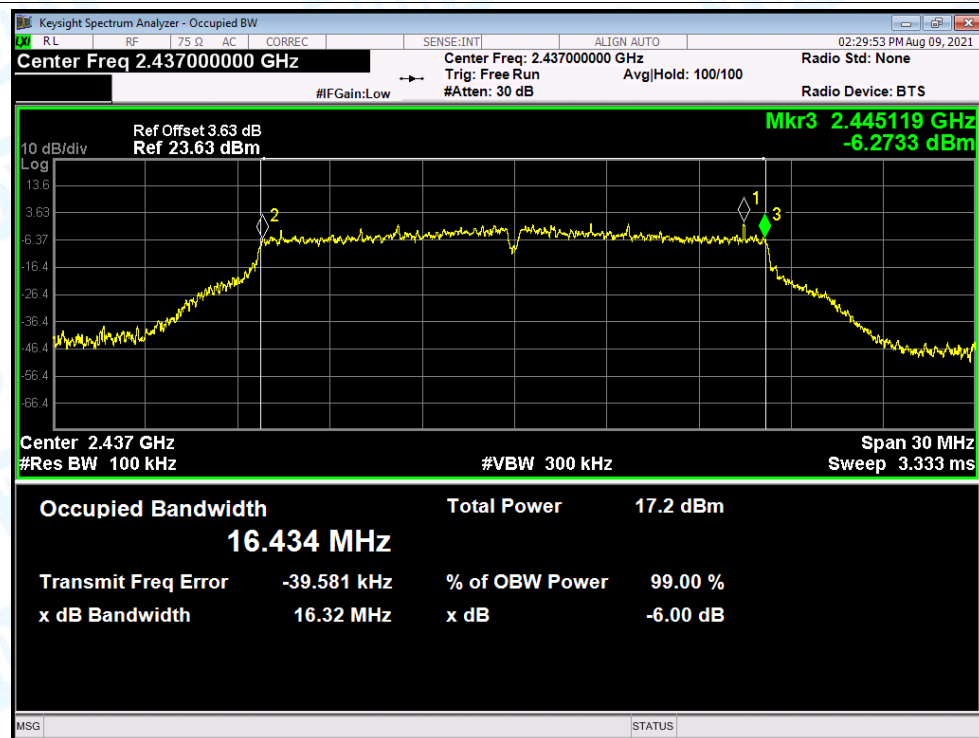
-6dB Bandwidth NVNT b 2462MHz Ant1



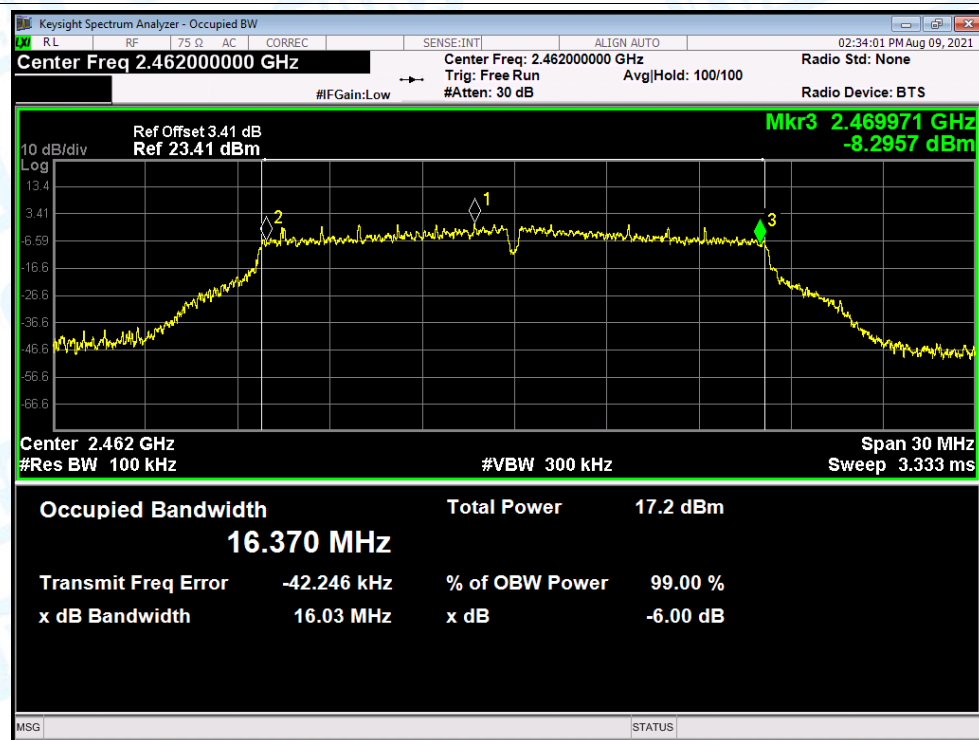
-6dB Bandwidth NVNT g 2412MHz Ant1



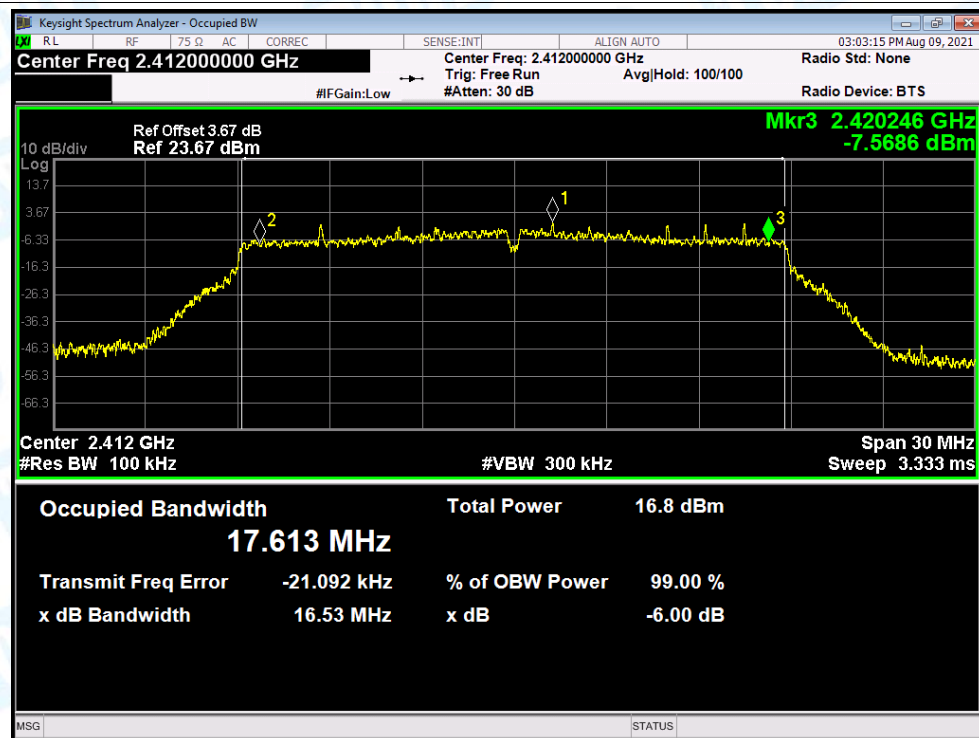
-6dB Bandwidth NVNT g 2437MHz Ant1



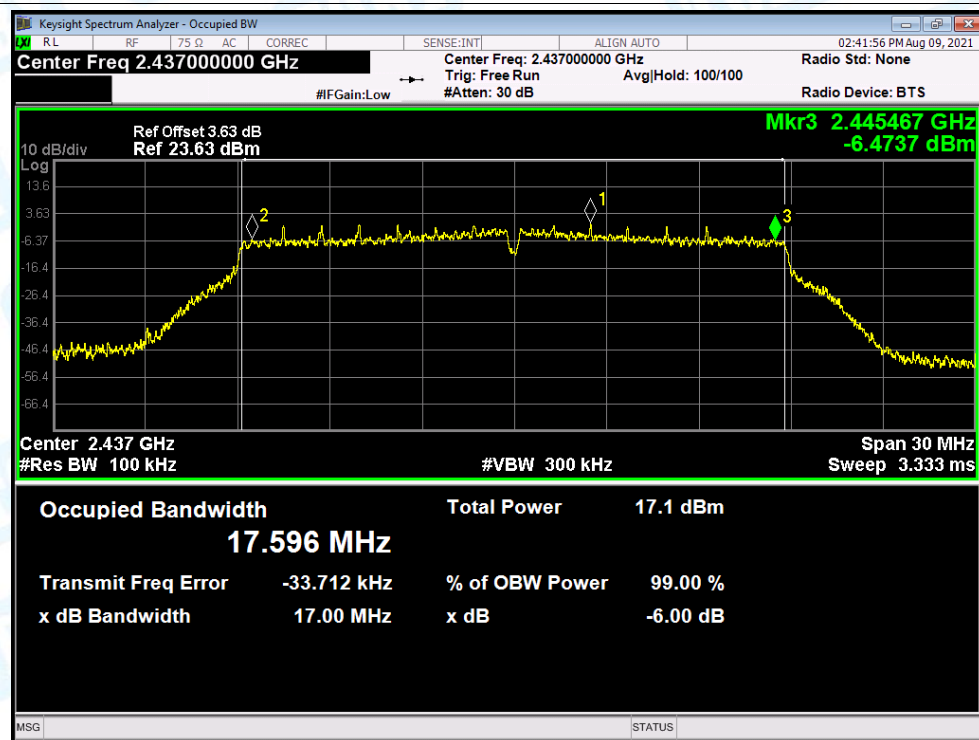
-6dB Bandwidth NVNT g 2462MHz Ant1



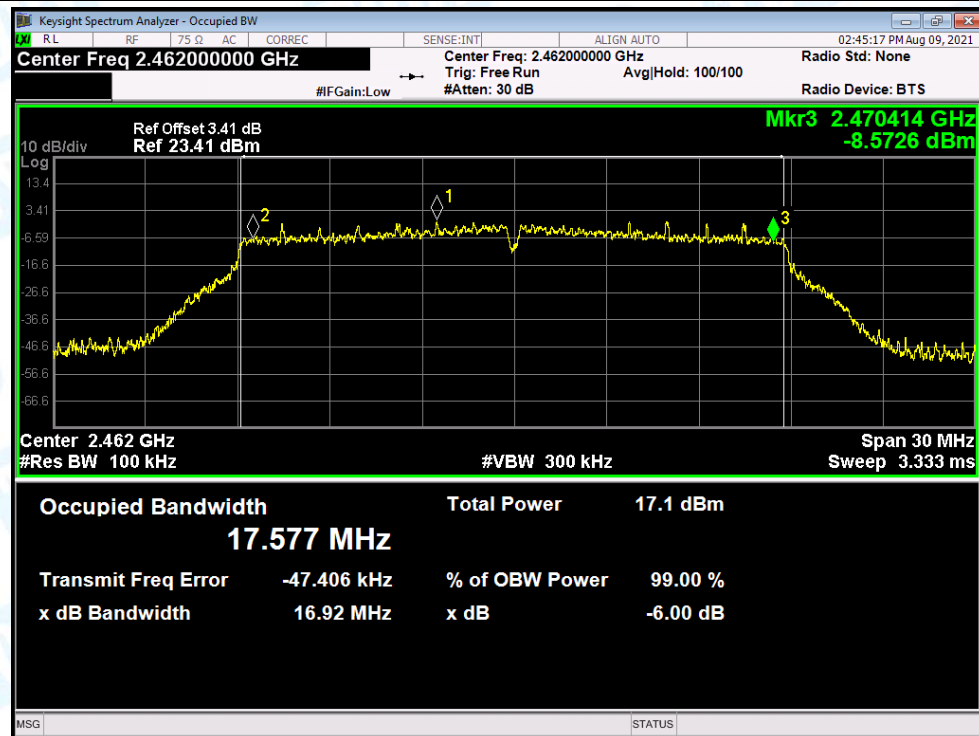
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



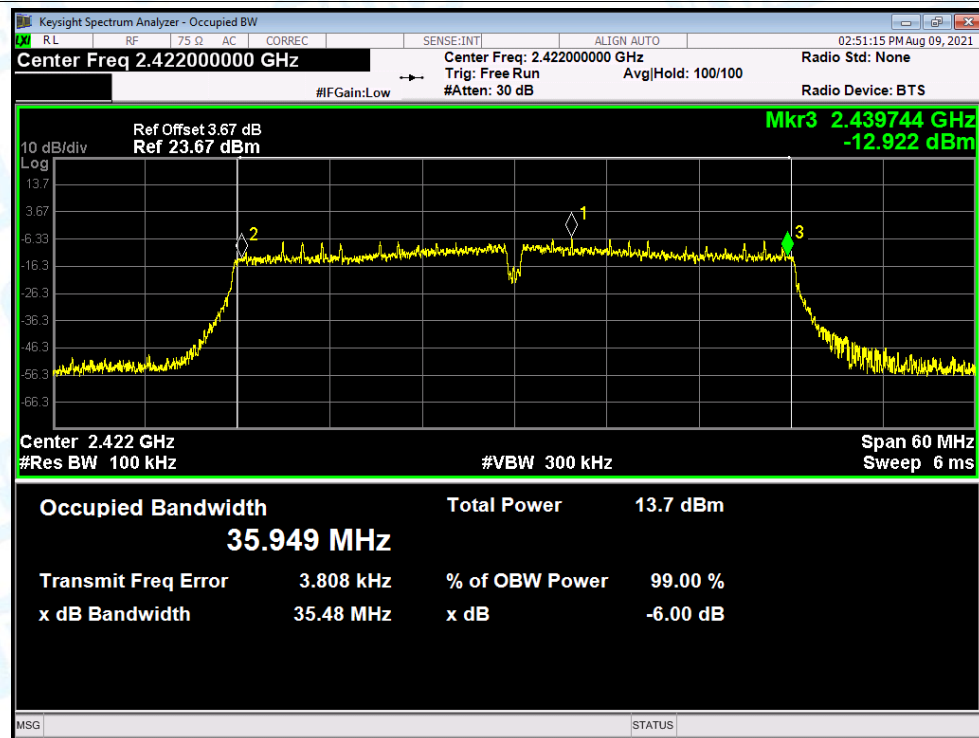
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



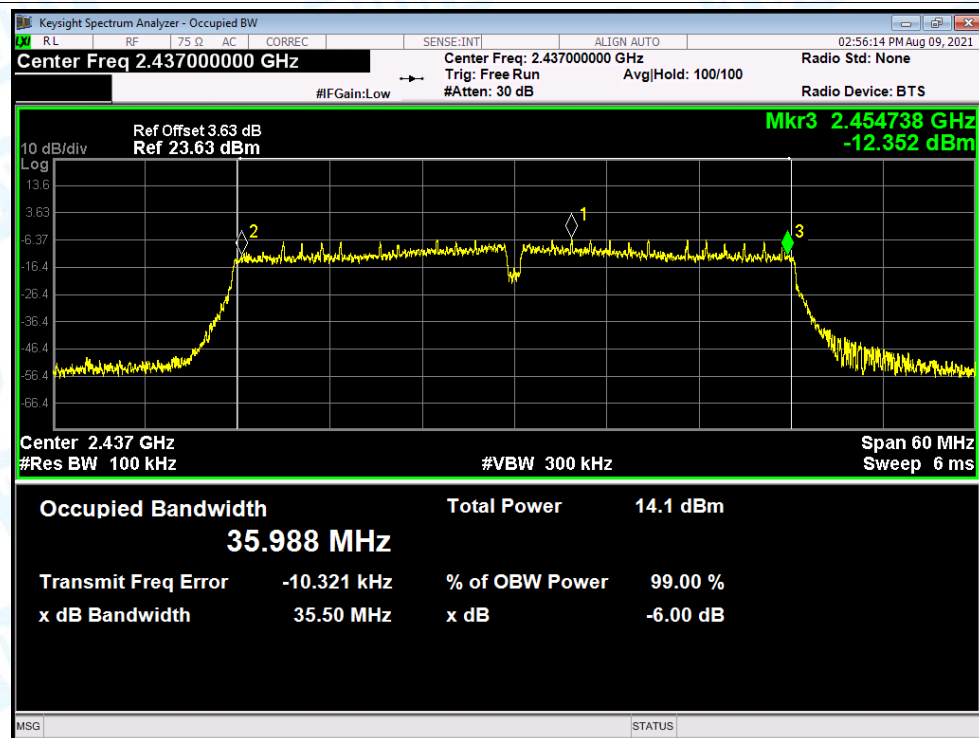
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



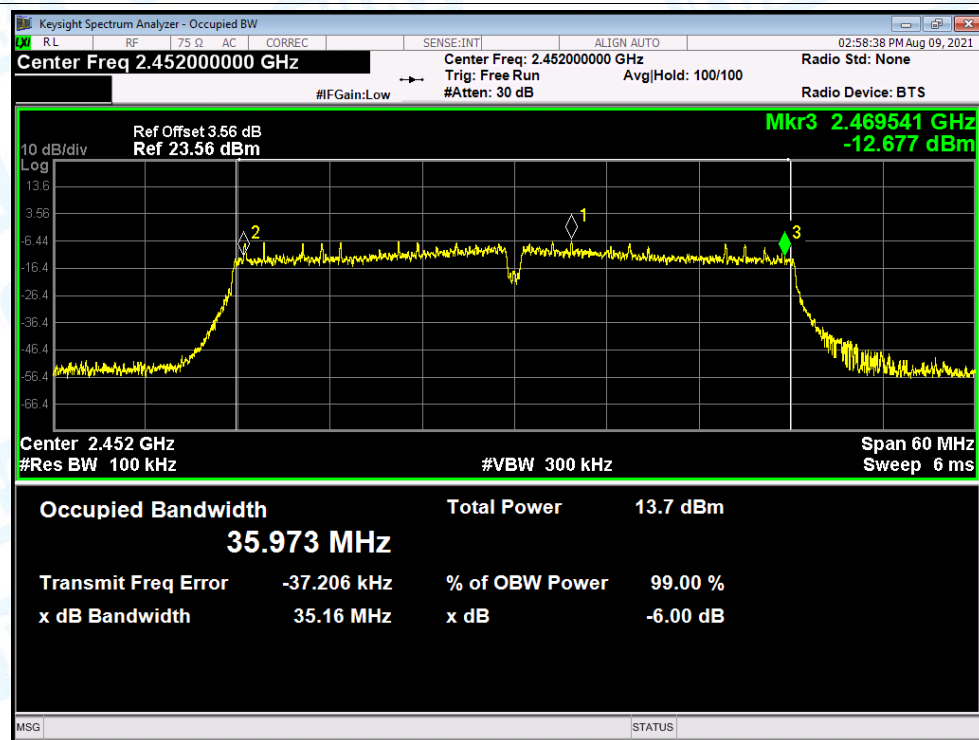
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

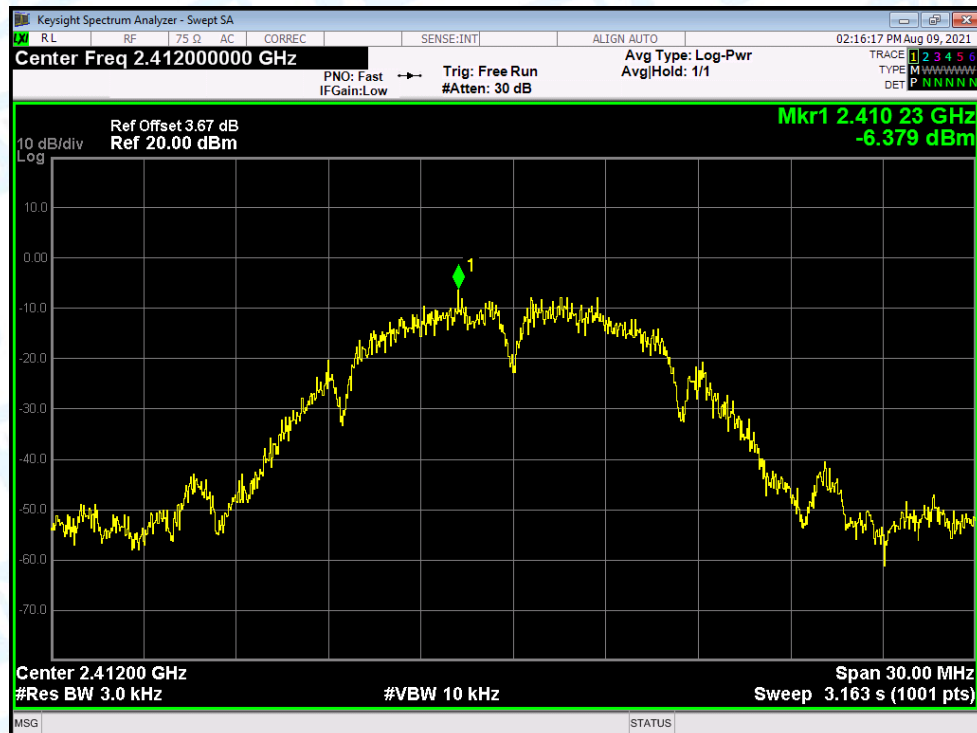


Maximum Power Spectral Density Level

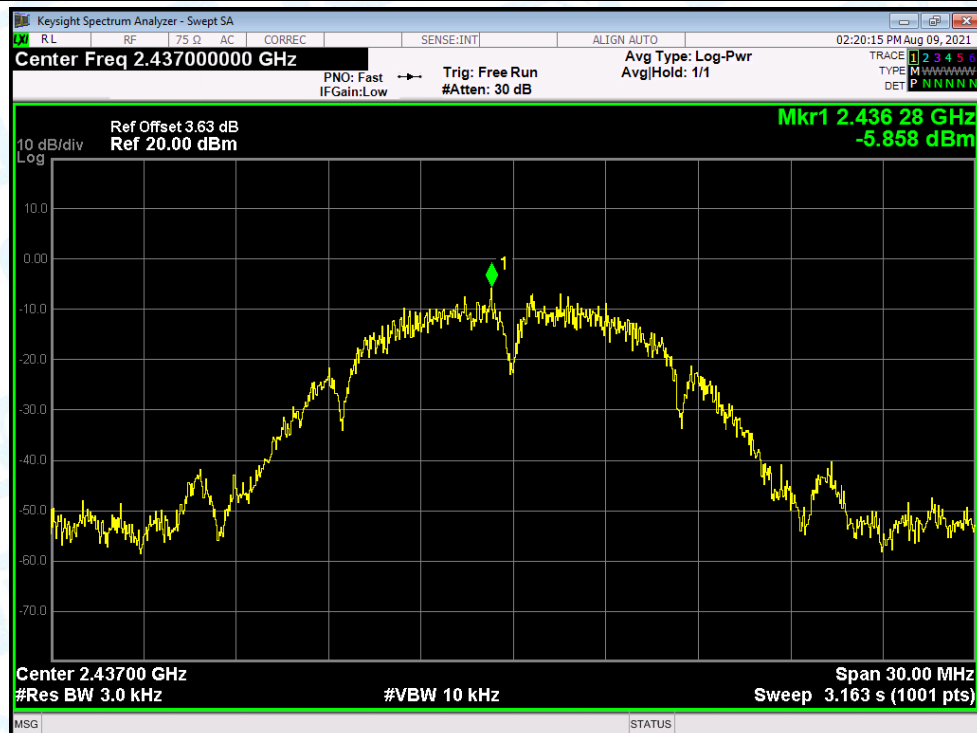
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-6.379	8	Pass
NVNT	b	2437	Ant1	-5.858	8	Pass
NVNT	b	2462	Ant1	-7.471	8	Pass
NVNT	g	2412	Ant1	-12.717	8	Pass
NVNT	g	2437	Ant1	-11.778	8	Pass
NVNT	g	2462	Ant1	-12.723	8	Pass
NVNT	n(HT20)	2412	Ant1	-14.17	8	Pass
NVNT	n(HT20)	2437	Ant1	-13.419	8	Pass
NVNT	n(HT20)	2462	Ant1	-14.279	8	Pass
NVNT	n(HT40)	2422	Ant1	-20.503	8	Pass
NVNT	n(HT40)	2437	Ant1	-20.107	8	Pass
NVNT	n(HT40)	2452	Ant1	-19.777	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



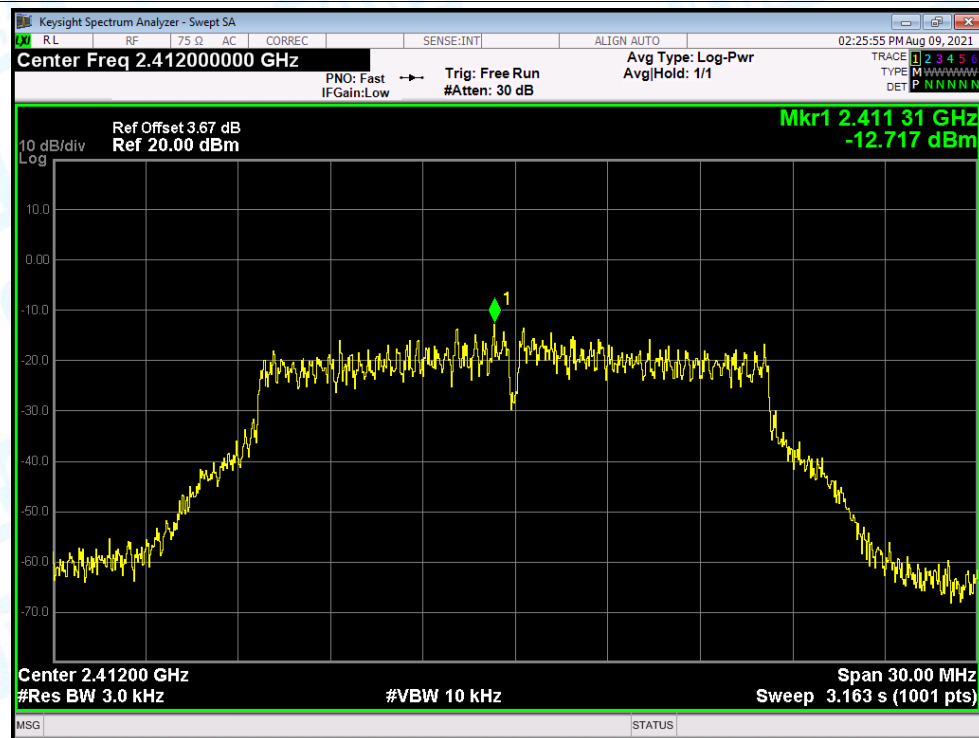
PSD NVNT b 2437MHz Ant1



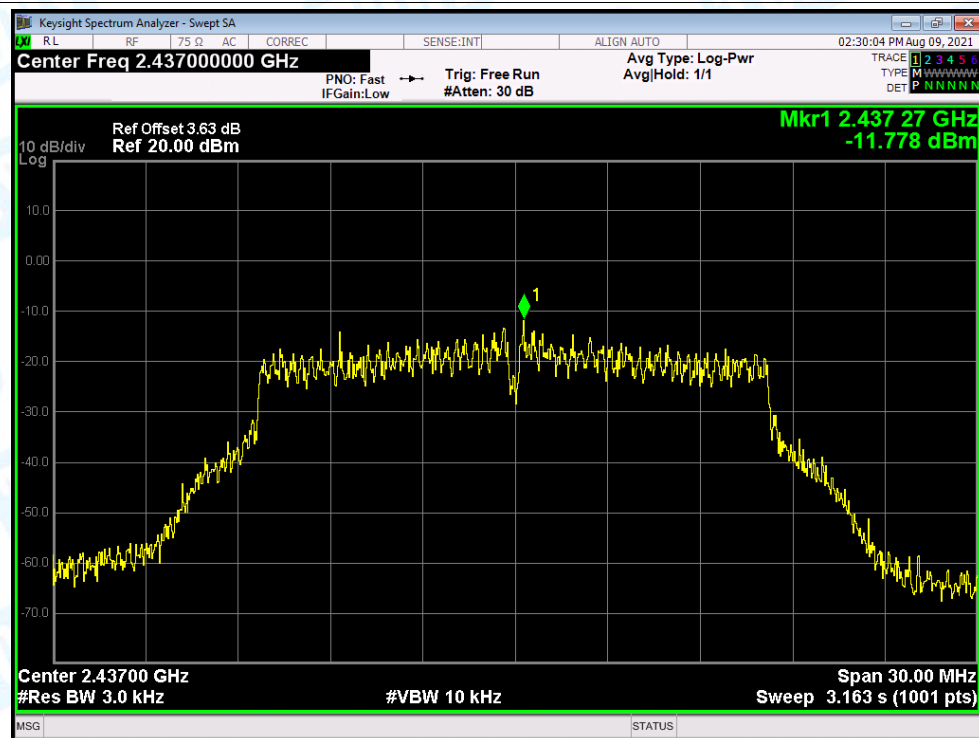
PSD NVNT b 2462MHz Ant1



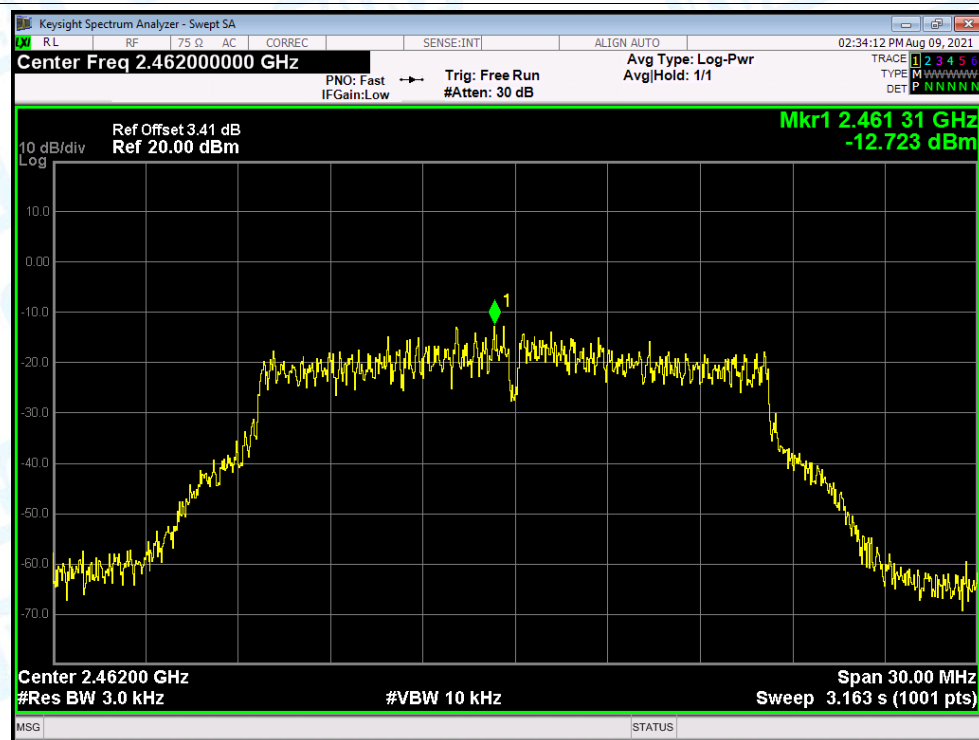
PSD NVNT g 2412MHz Ant1



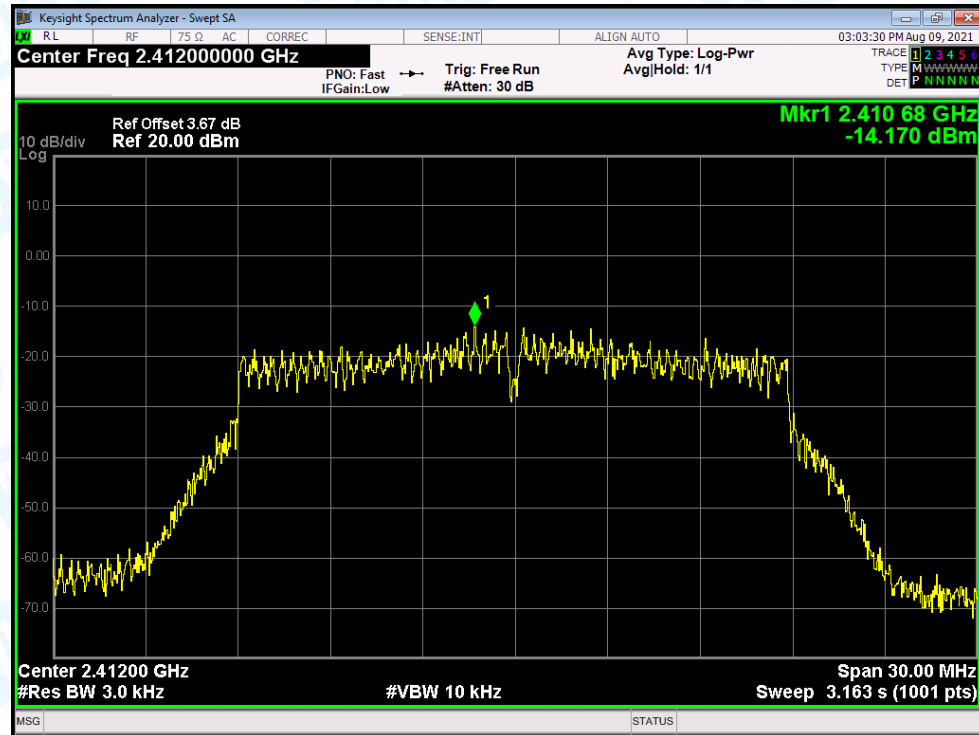
PSD NVNT g 2437MHz Ant1



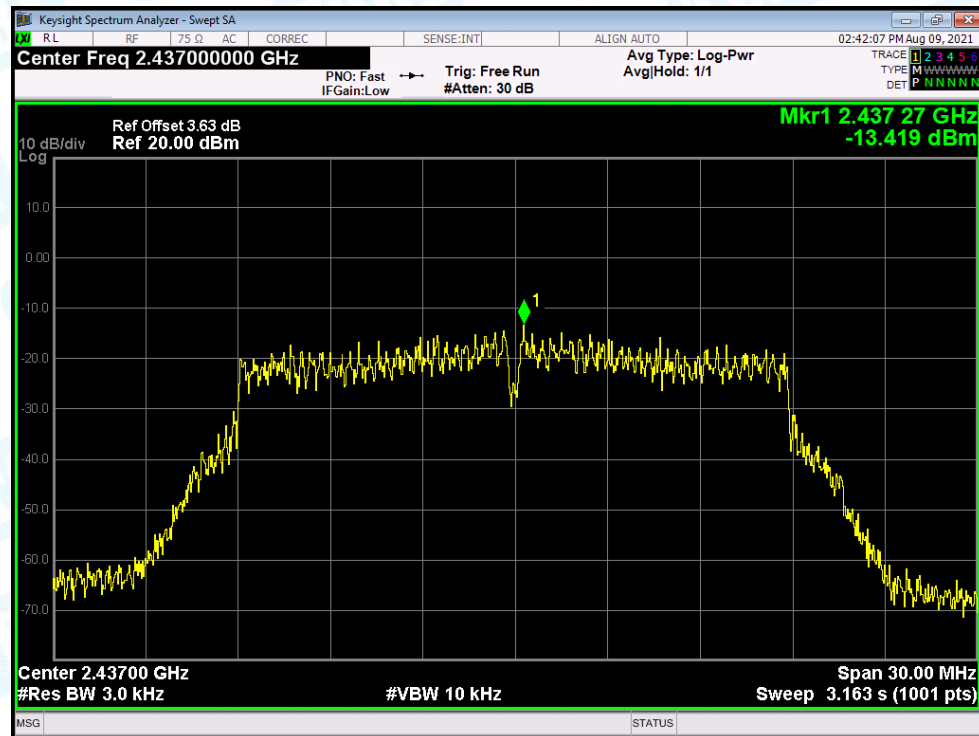
PSD NVNT g 2462MHz Ant1



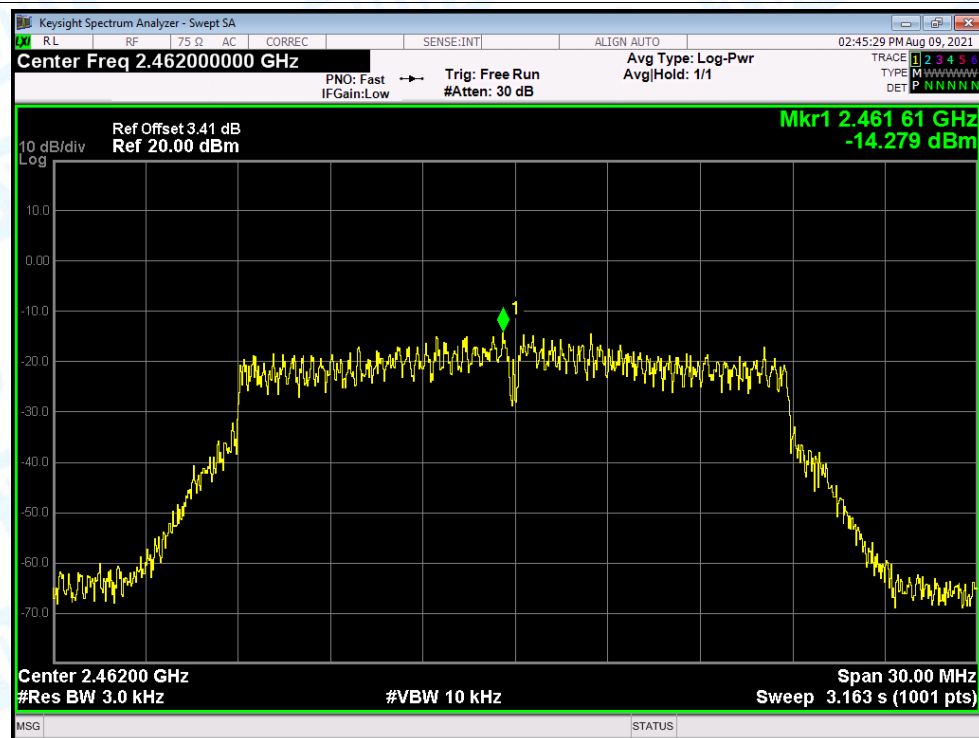
PSD NVNT n(HT20) 2412MHz Ant1



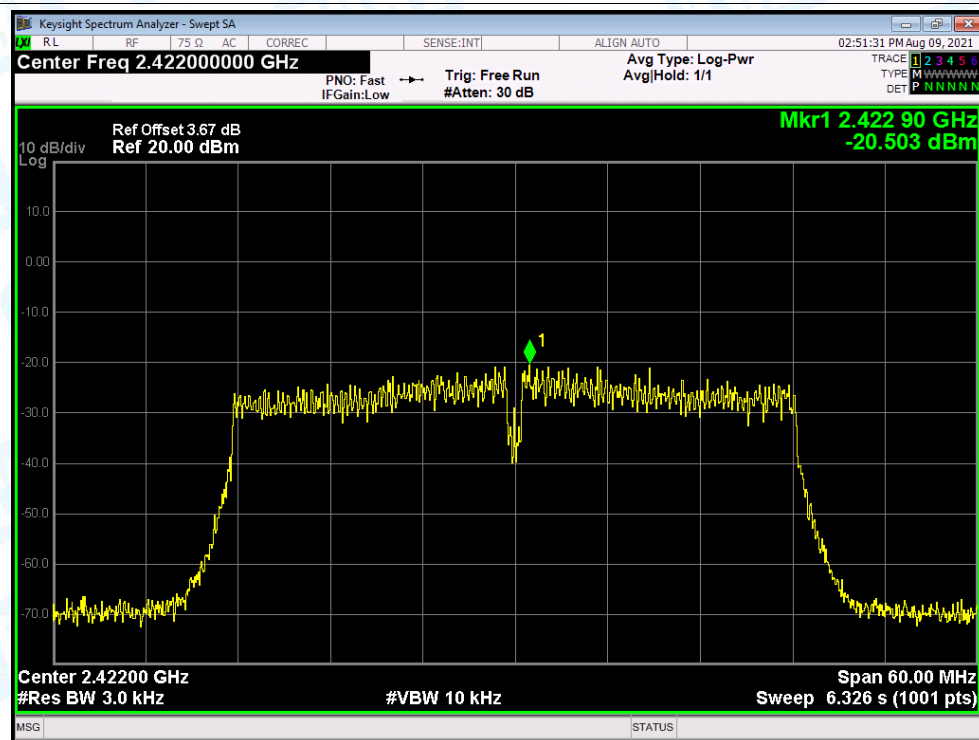
PSD NVNT n(HT20) 2437MHz Ant1



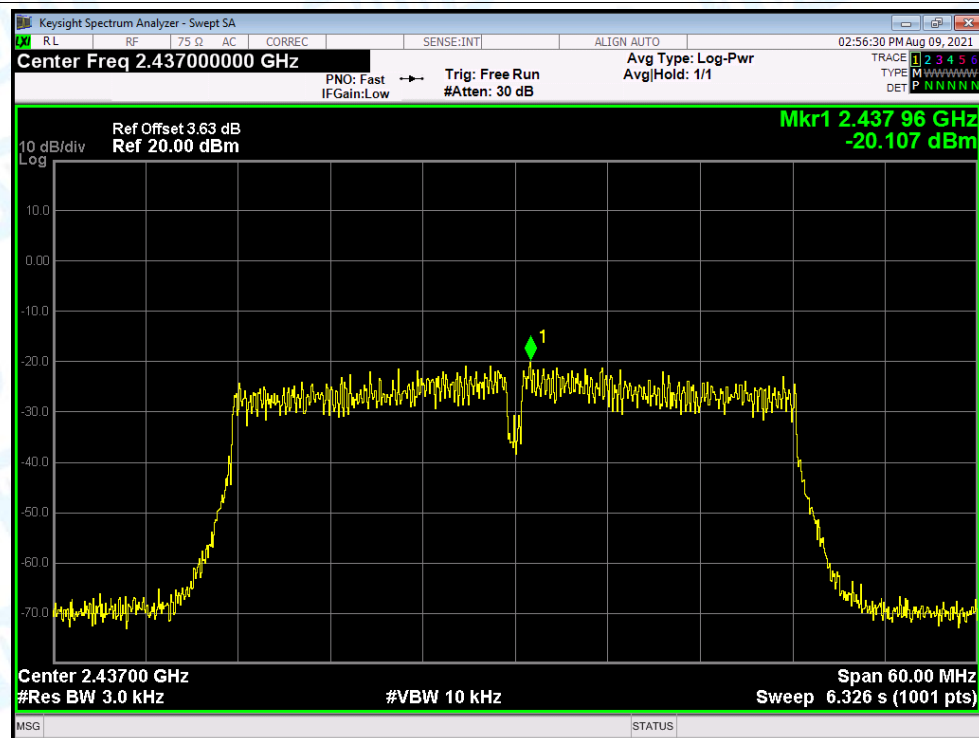
PSD NVNT n(HT20) 2462MHz Ant1



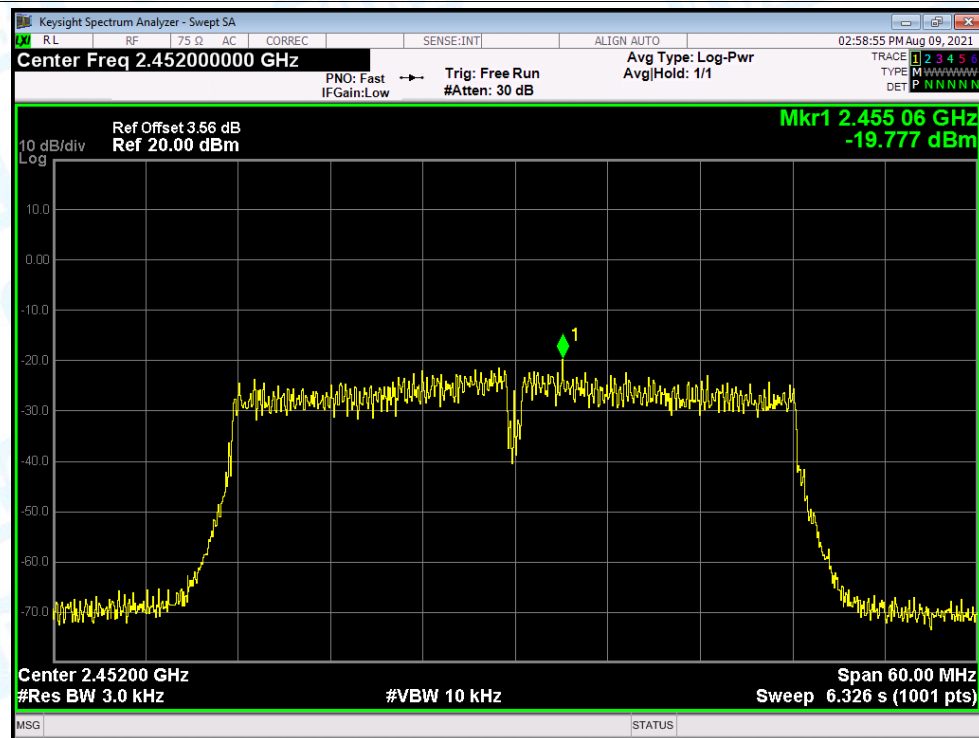
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1

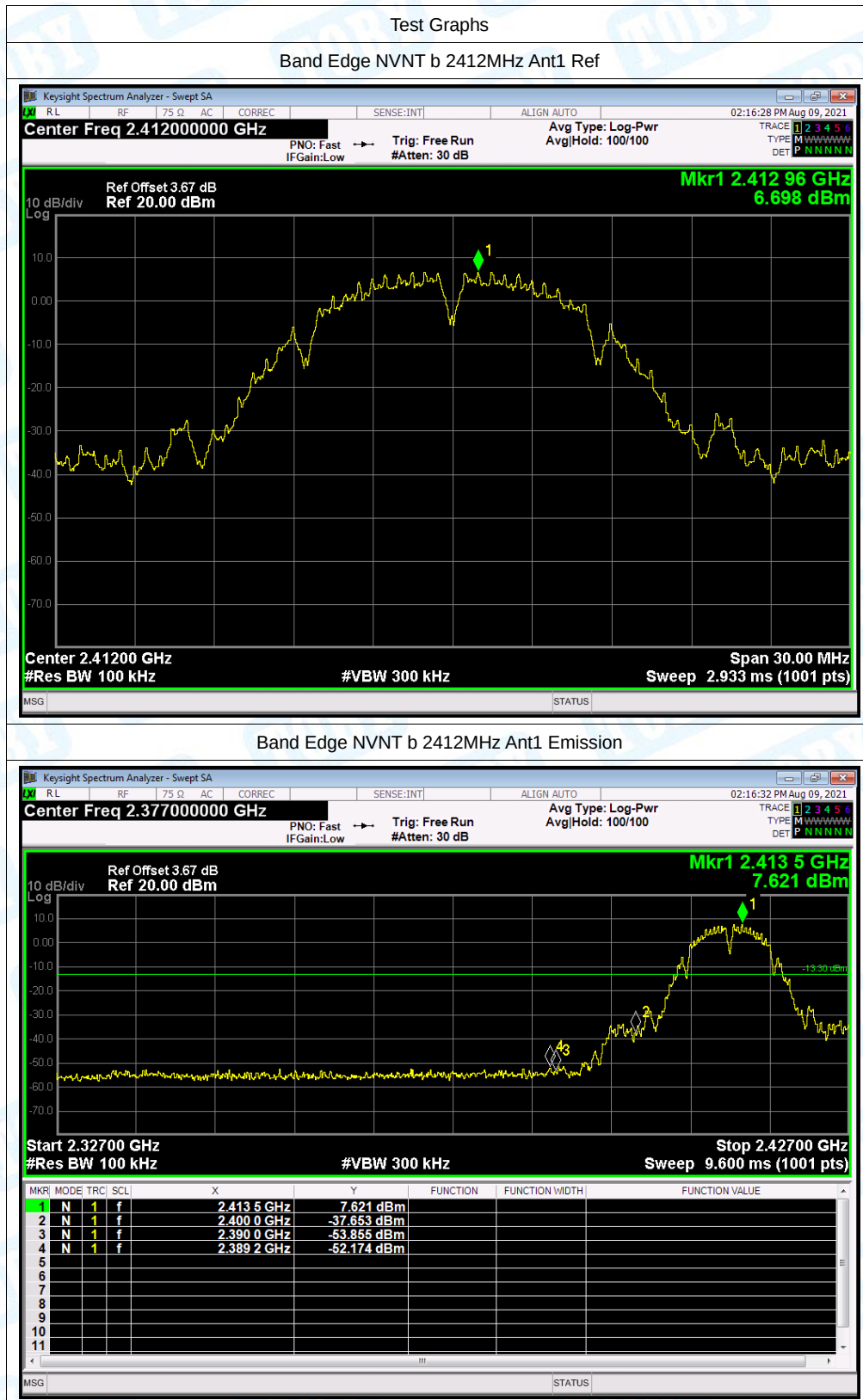


PSD NVNT n(HT40) 2452MHz Ant1

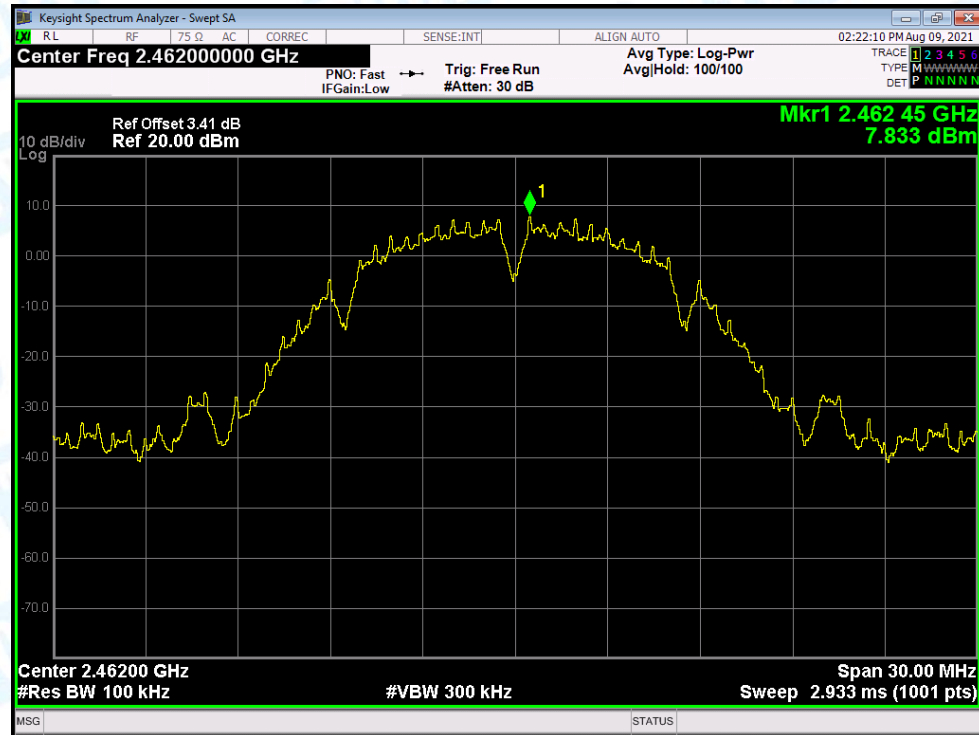


Band Edge

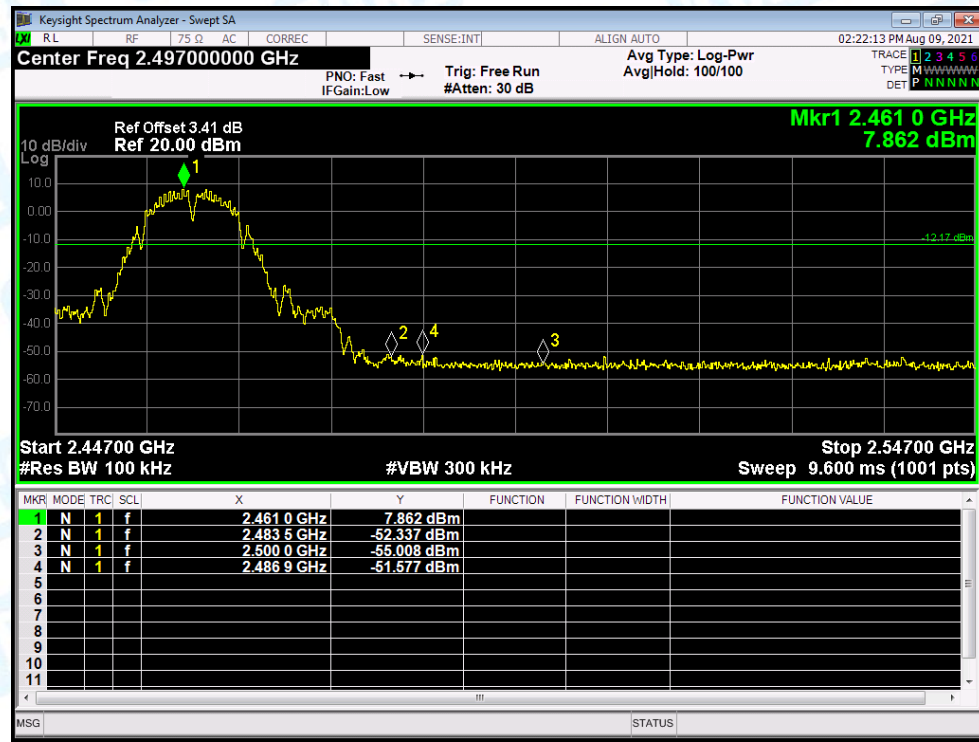
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-58.87	-20	Pass
NVNT	b	2462	Ant1	-59.4	-20	Pass
NVNT	g	2412	Ant1	-46.39	-20	Pass
NVNT	g	2462	Ant1	-49.75	-20	Pass
NVNT	n(HT20)	2412	Ant1	-49.17	-20	Pass
NVNT	n(HT20)	2462	Ant1	-51.3	-20	Pass
NVNT	n(HT40)	2422	Ant1	-45.2	-20	Pass
NVNT	n(HT40)	2452	Ant1	-45.15	-20	Pass



Band Edge NVNT b 2462MHz Ant1 Ref



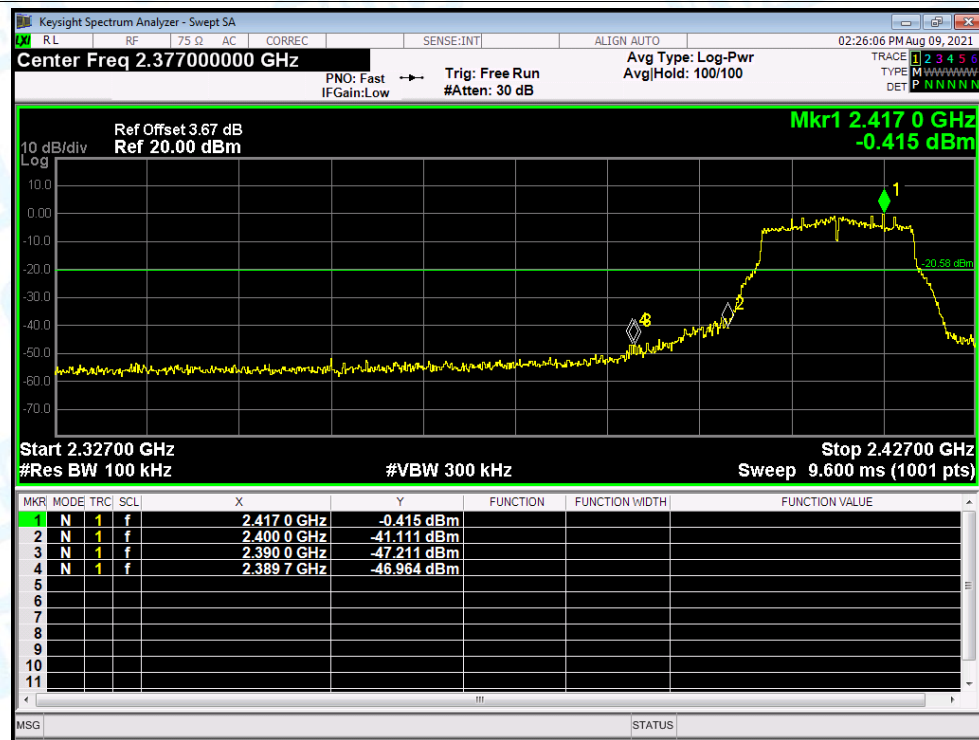
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



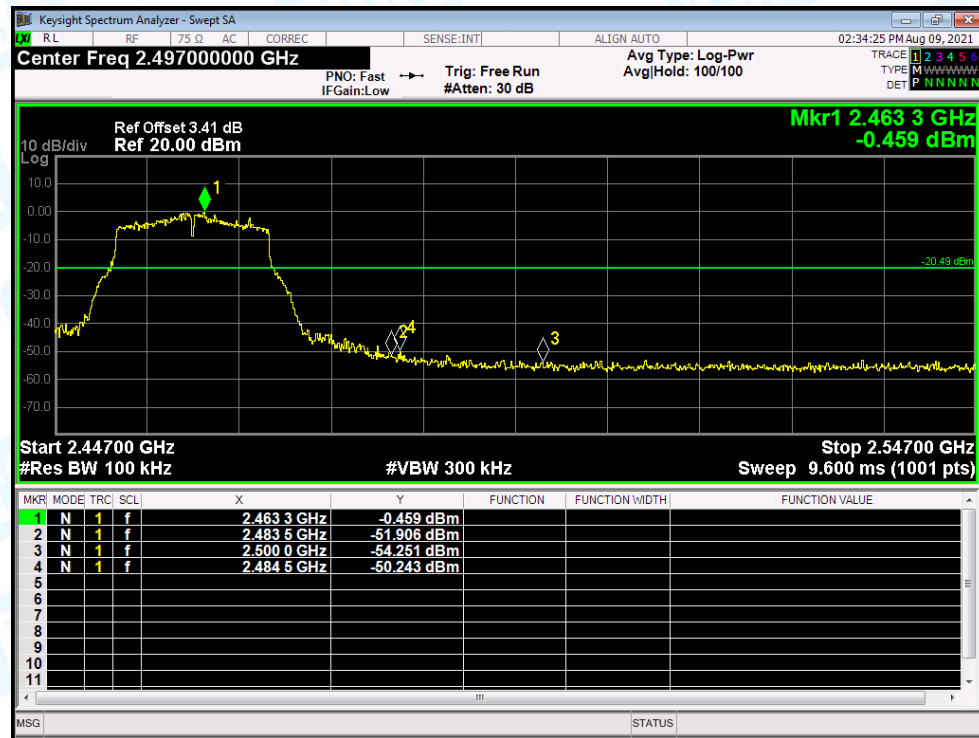
Band Edge NVNT g 2412MHz Ant1 Emission



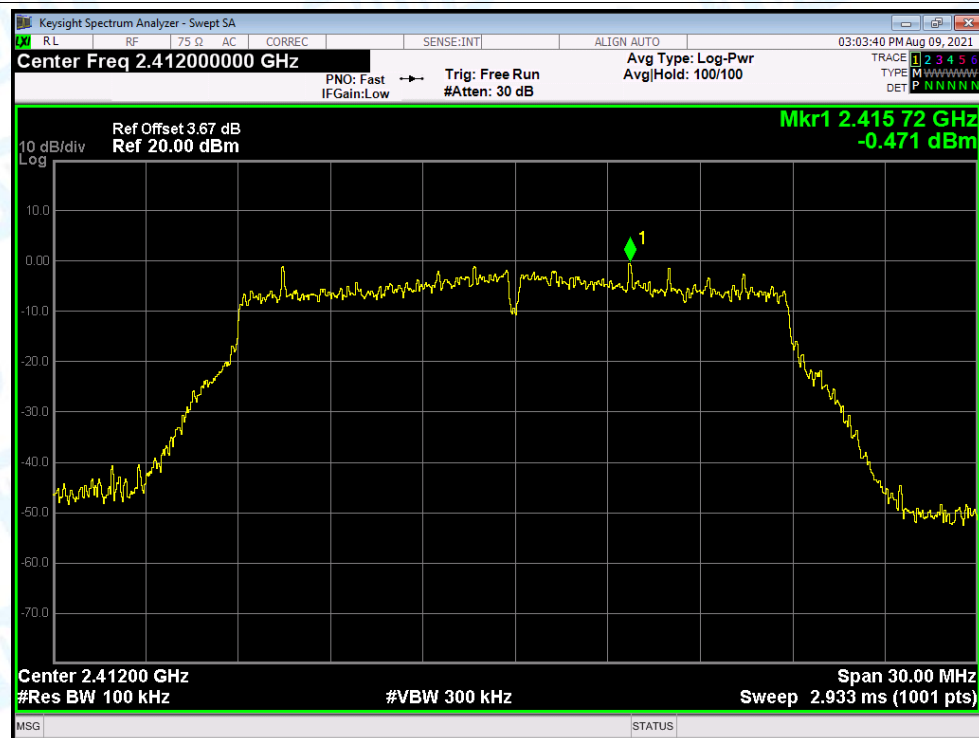
Band Edge NVNT g 2462MHz Ant1 Ref



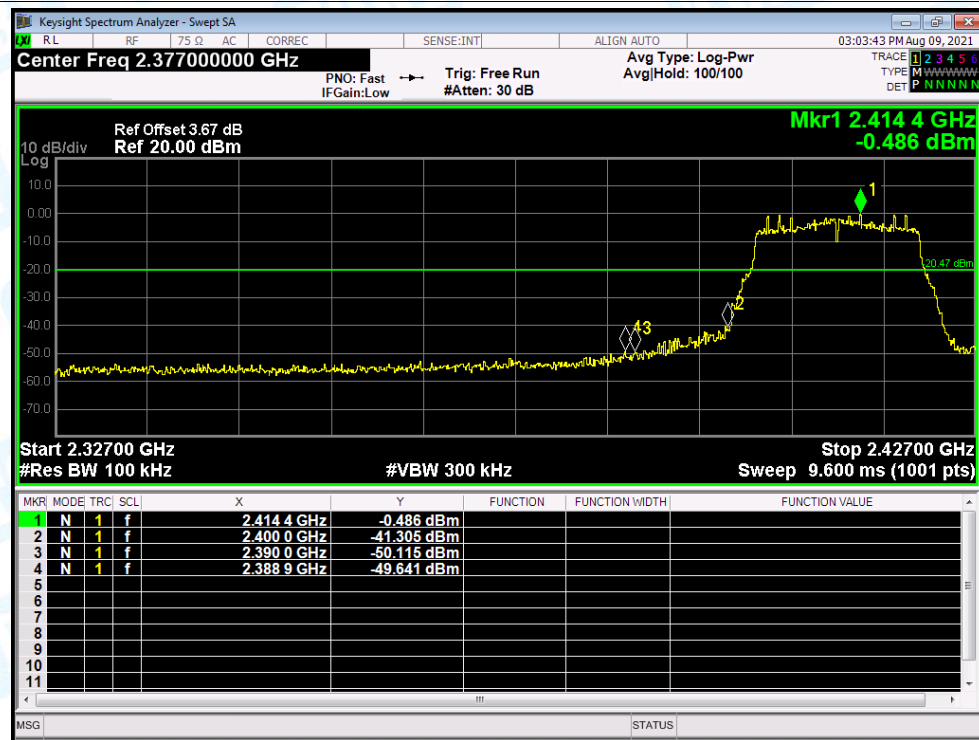
Band Edge NVNT g 2462MHz Ant1 Emission



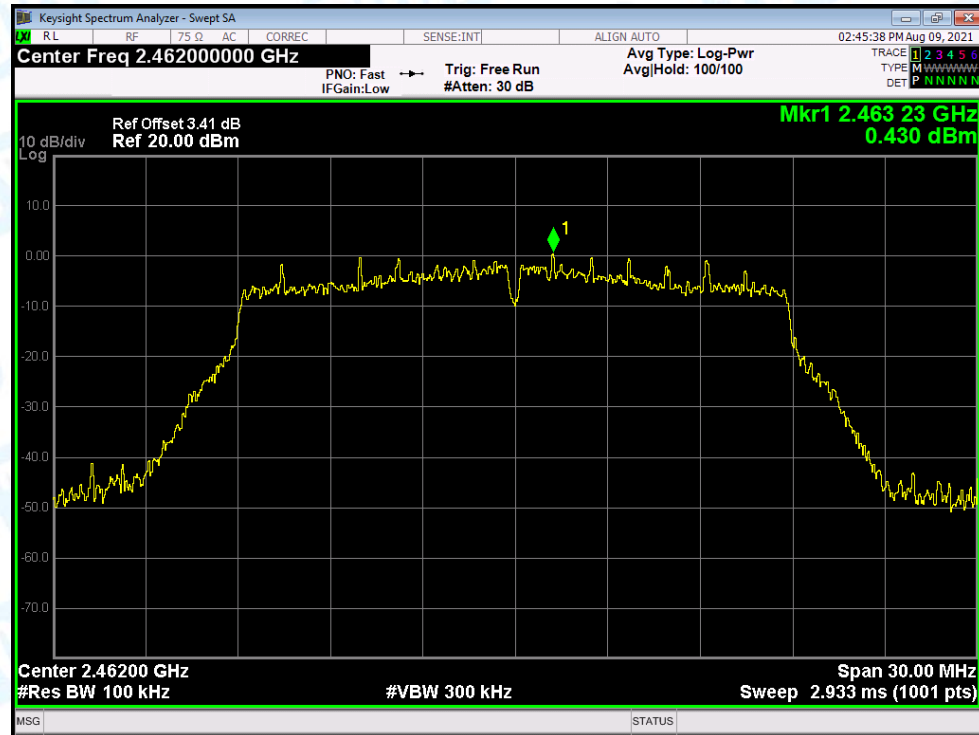
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



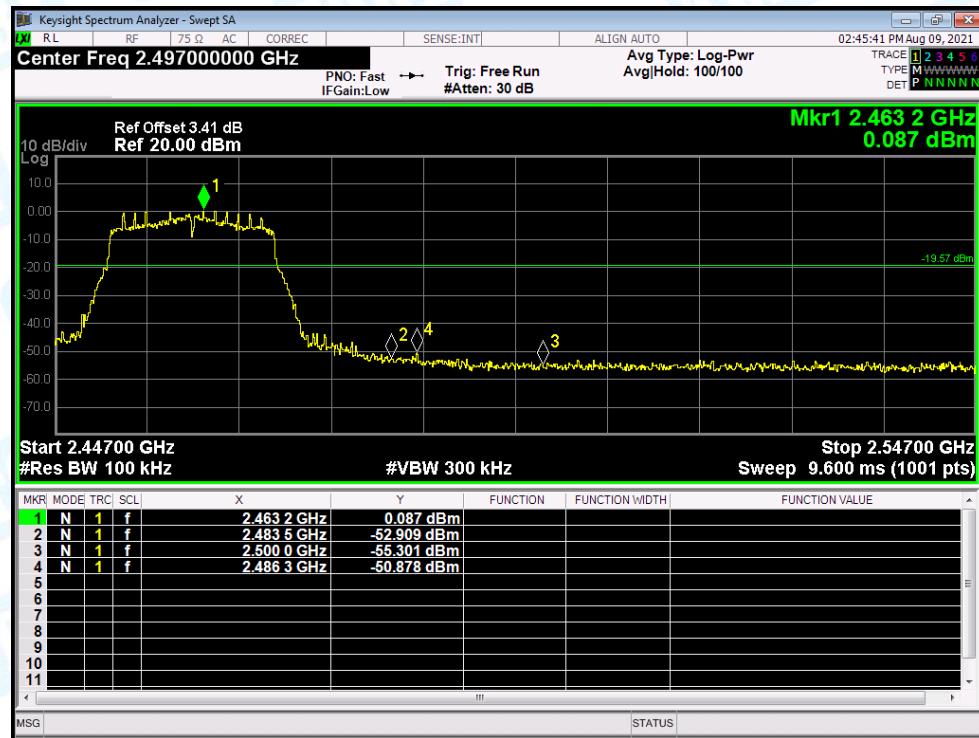
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



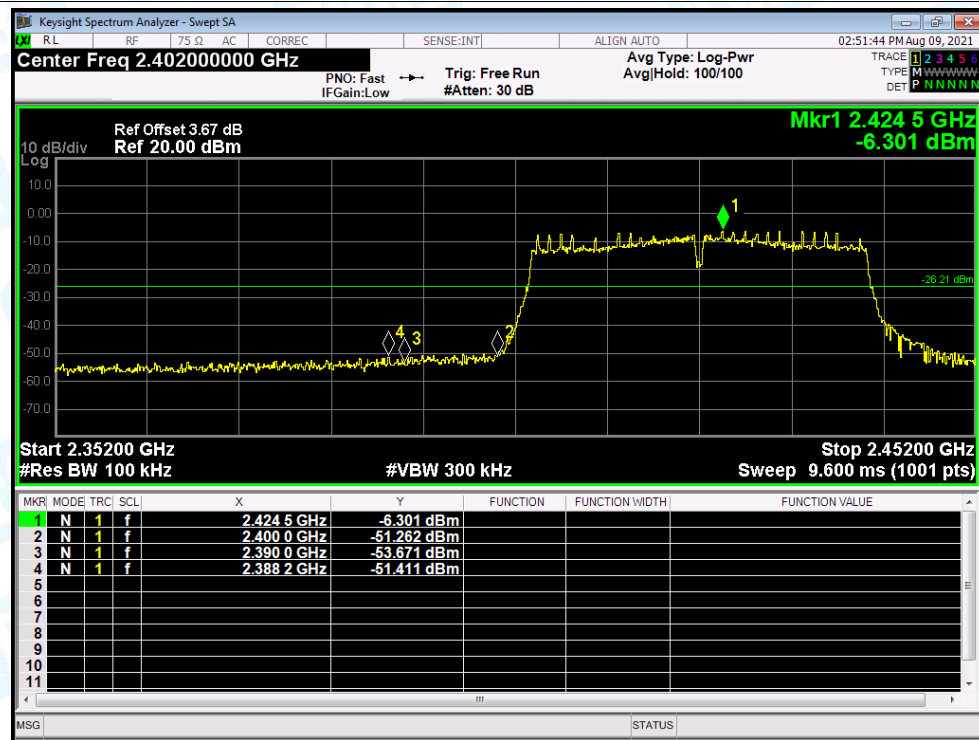
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



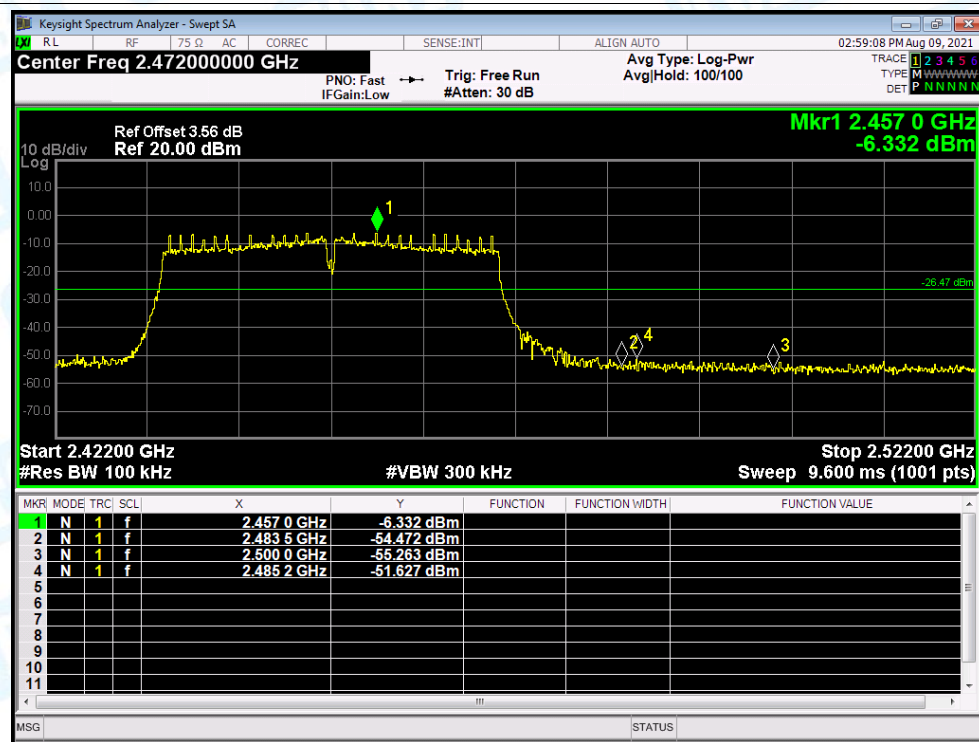
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission



Conducted RF Spurious Emission

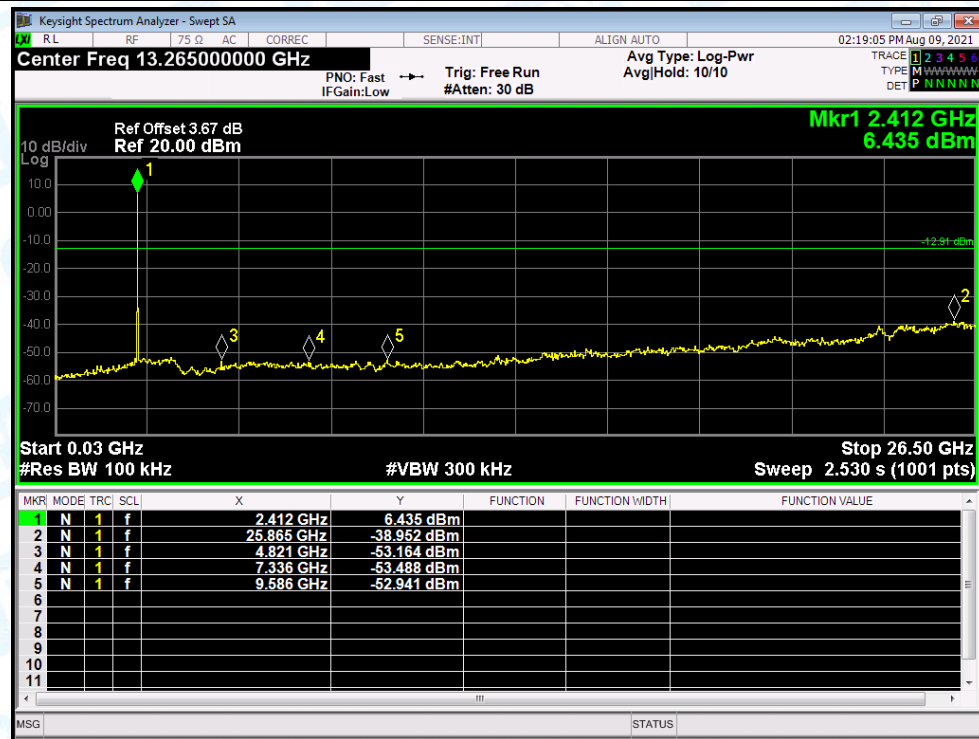
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.04	-20	Pass
NVNT	b	2437	Ant1	-46.43	-20	Pass
NVNT	b	2462	Ant1	-46.57	-20	Pass
NVNT	g	2412	Ant1	-38.2	-20	Pass
NVNT	g	2437	Ant1	-38.35	-20	Pass
NVNT	g	2462	Ant1	-37.09	-20	Pass
NVNT	n(HT20)	2412	Ant1	-38.17	-20	Pass
NVNT	n(HT20)	2437	Ant1	-39.29	-20	Pass
NVNT	n(HT20)	2462	Ant1	-39.3	-20	Pass
NVNT	n(HT40)	2422	Ant1	-32.77	-20	Pass
NVNT	n(HT40)	2437	Ant1	-33.86	-20	Pass
NVNT	n(HT40)	2452	Ant1	-32.39	-20	Pass

Test Graphs

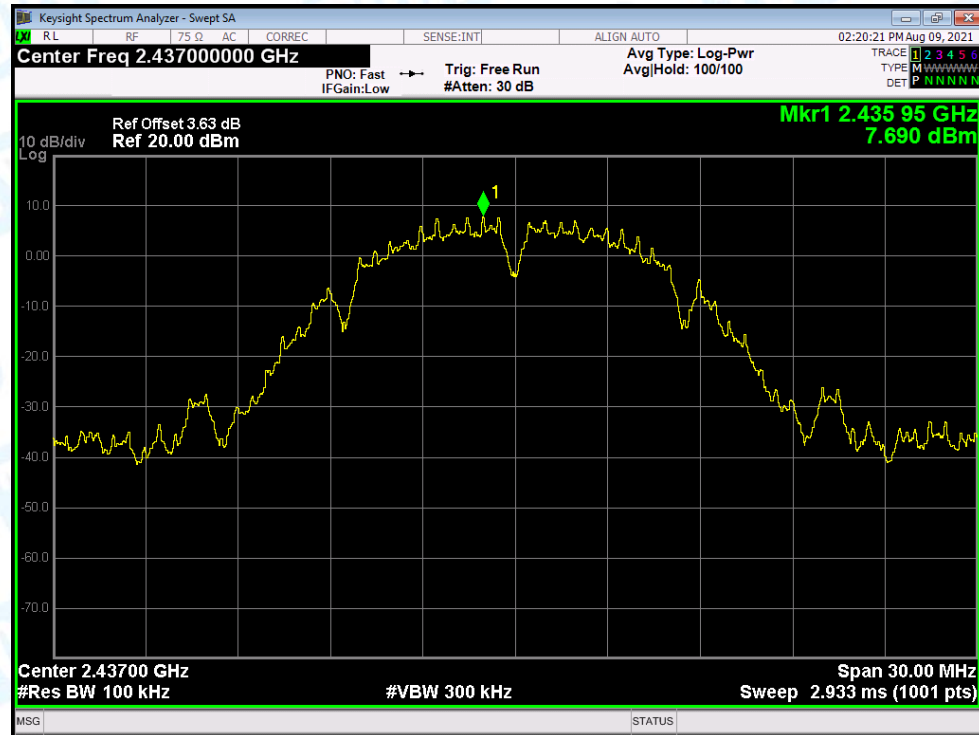
Tx. Spurious NVNT b 2412MHz Ant1 Ref



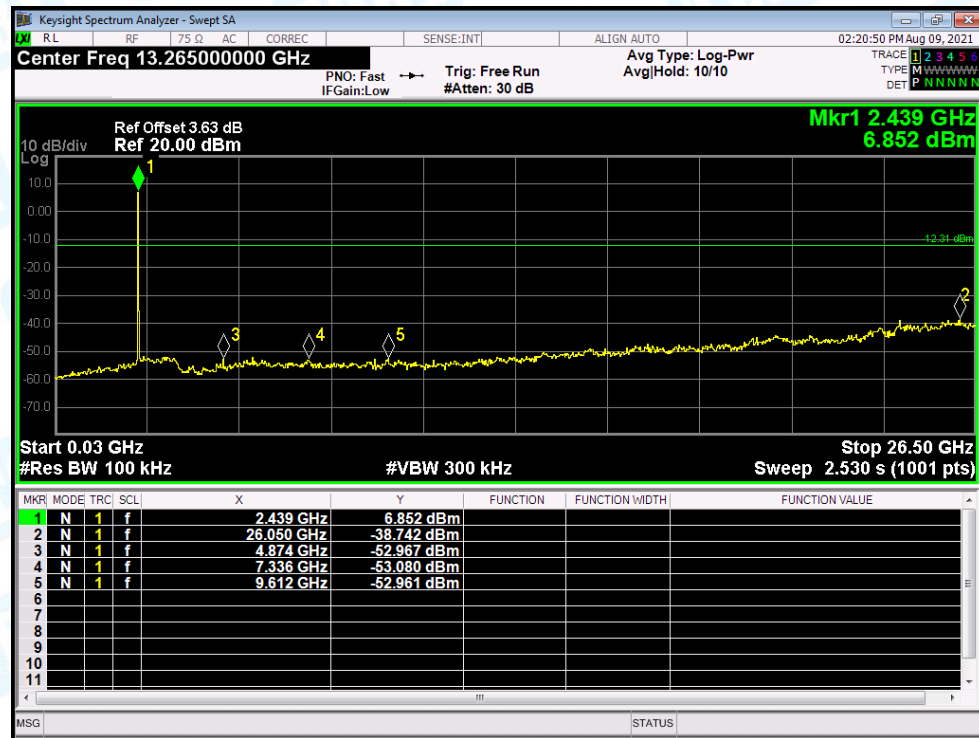
Tx. Spurious NVNT b 2412MHz Ant1 Emission



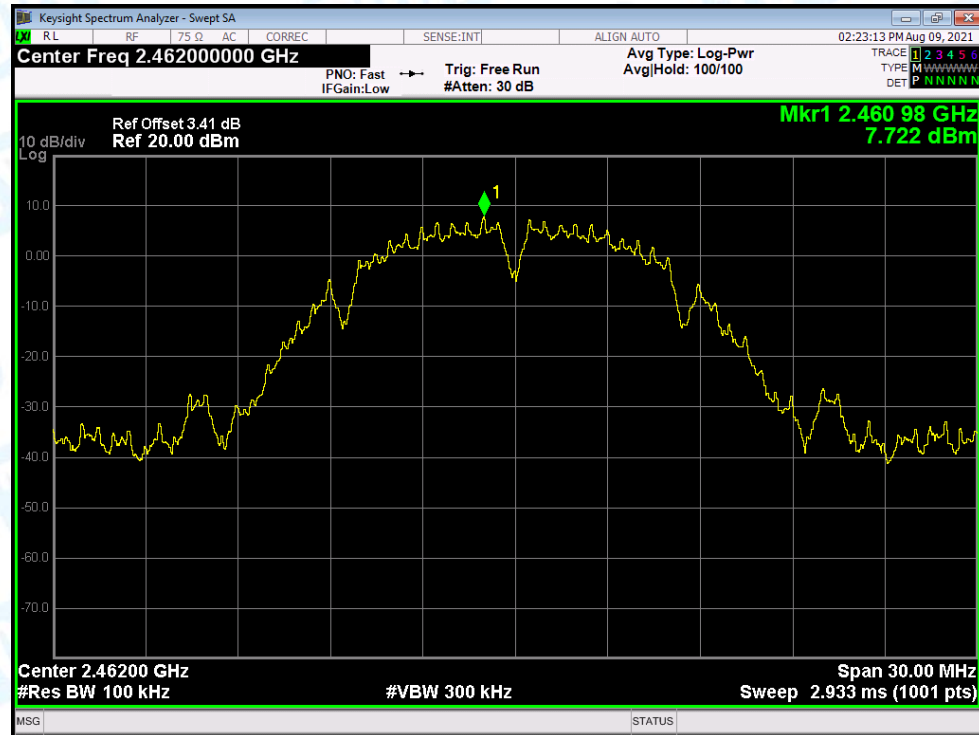
Tx. Spurious NVNT b 2437MHz Ant1 Ref



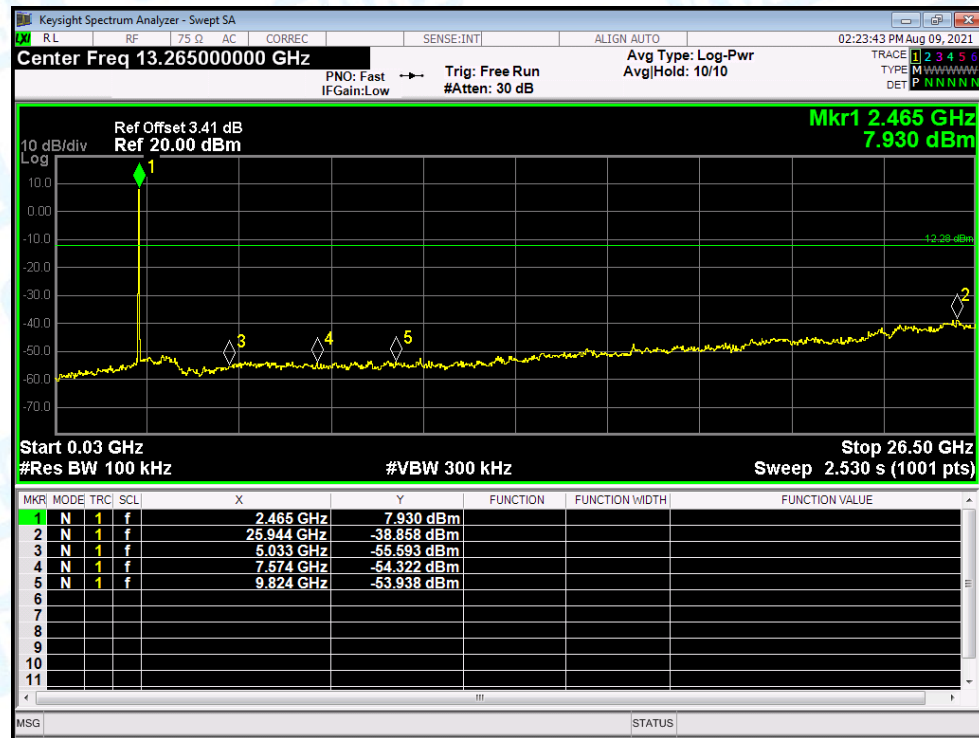
Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



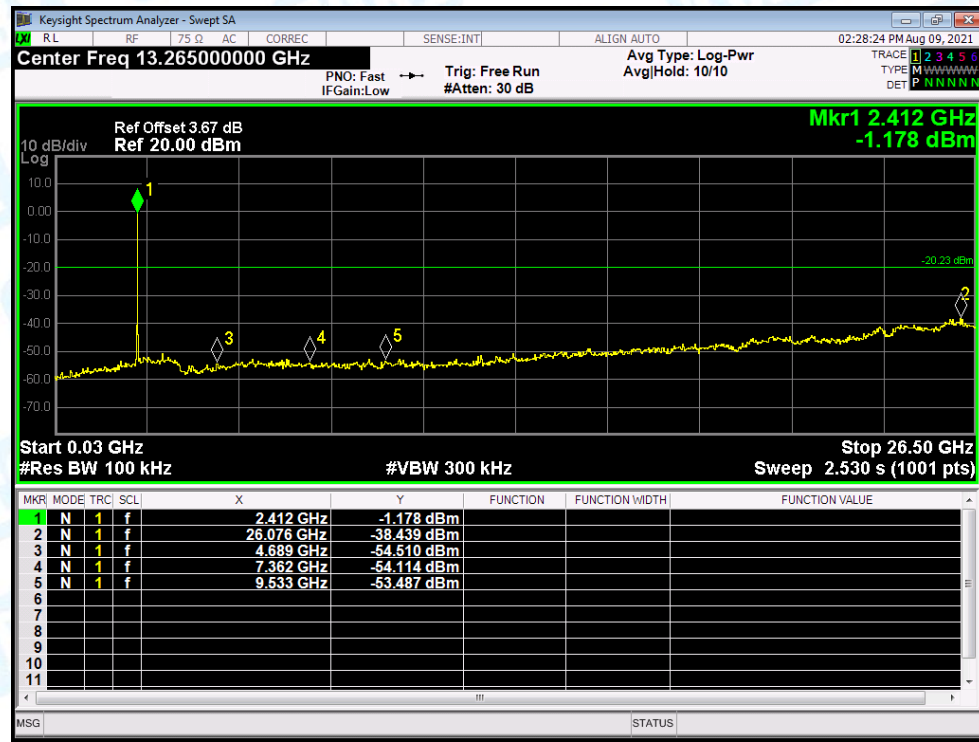
Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref



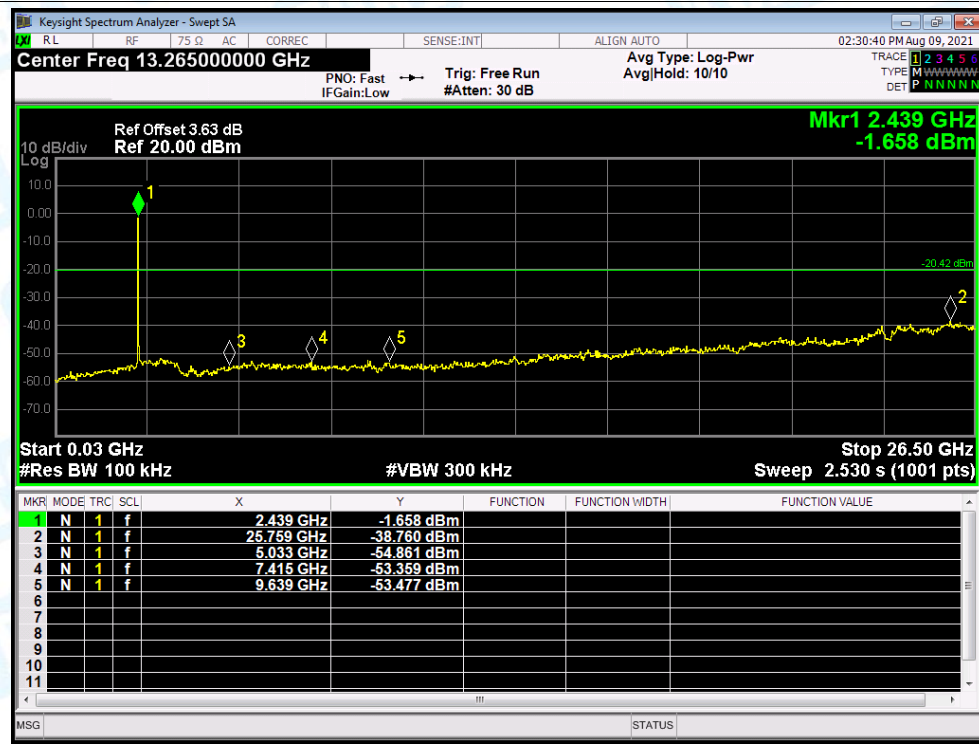
Tx. Spurious NVNT g 2412MHz Ant1 Emission



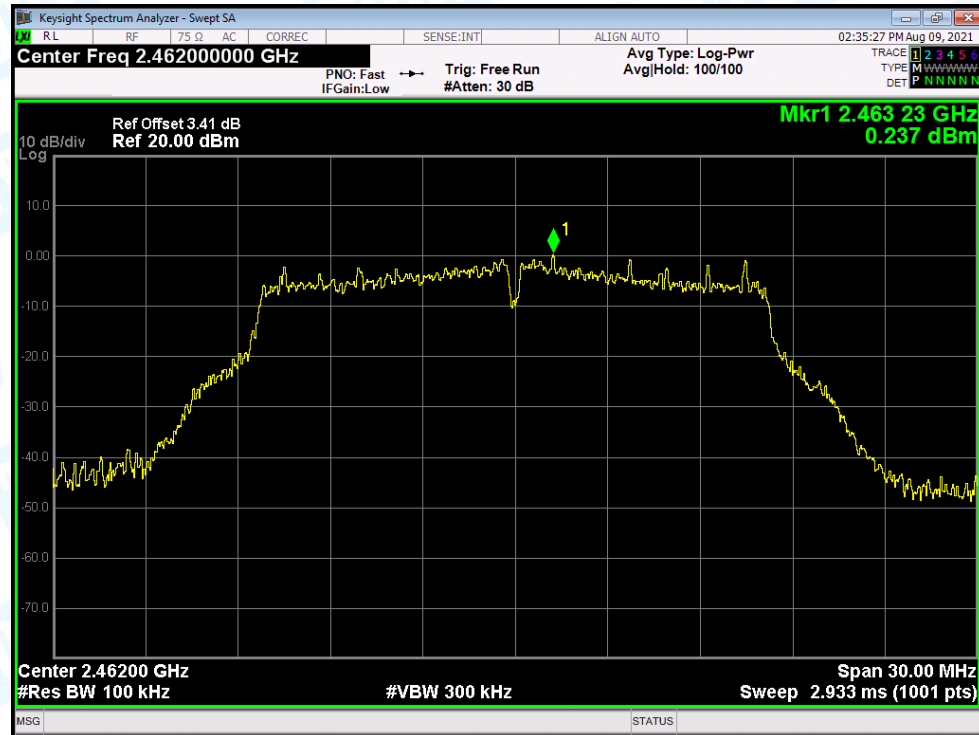
Tx. Spurious NVNT g 2437MHz Ant1 Ref



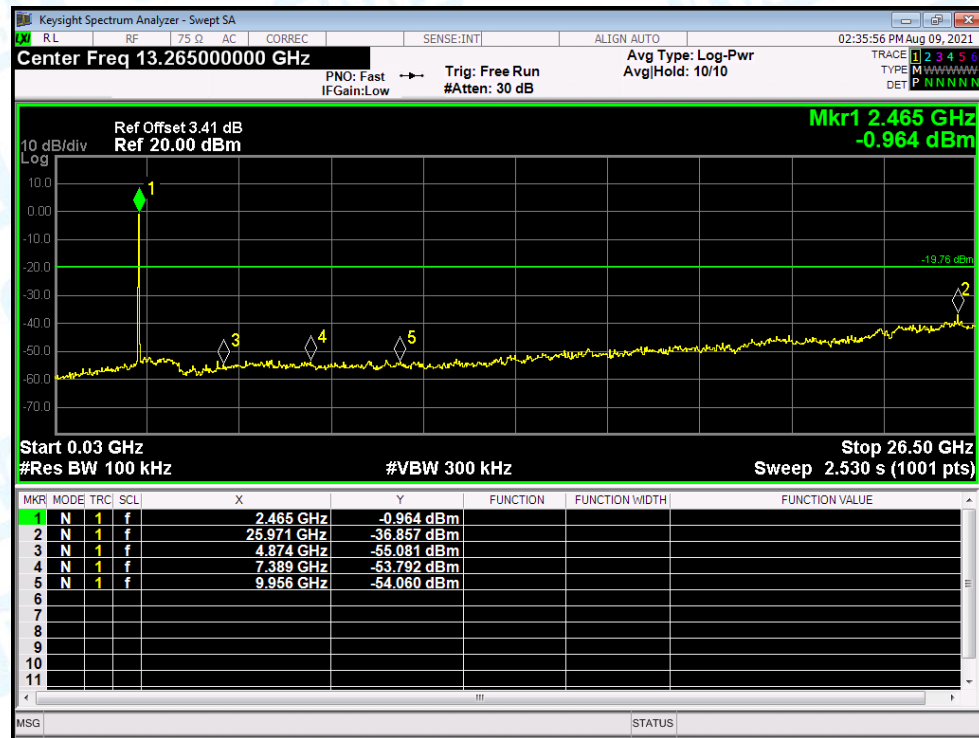
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



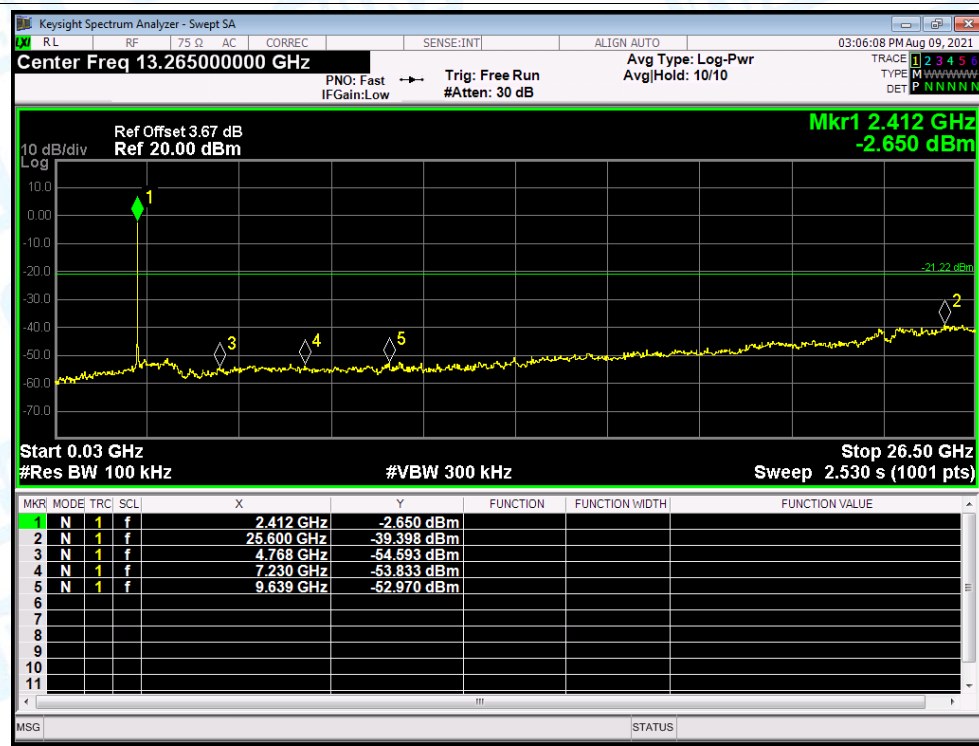
Tx. Spurious NVNT g 2462MHz Ant1 Emission



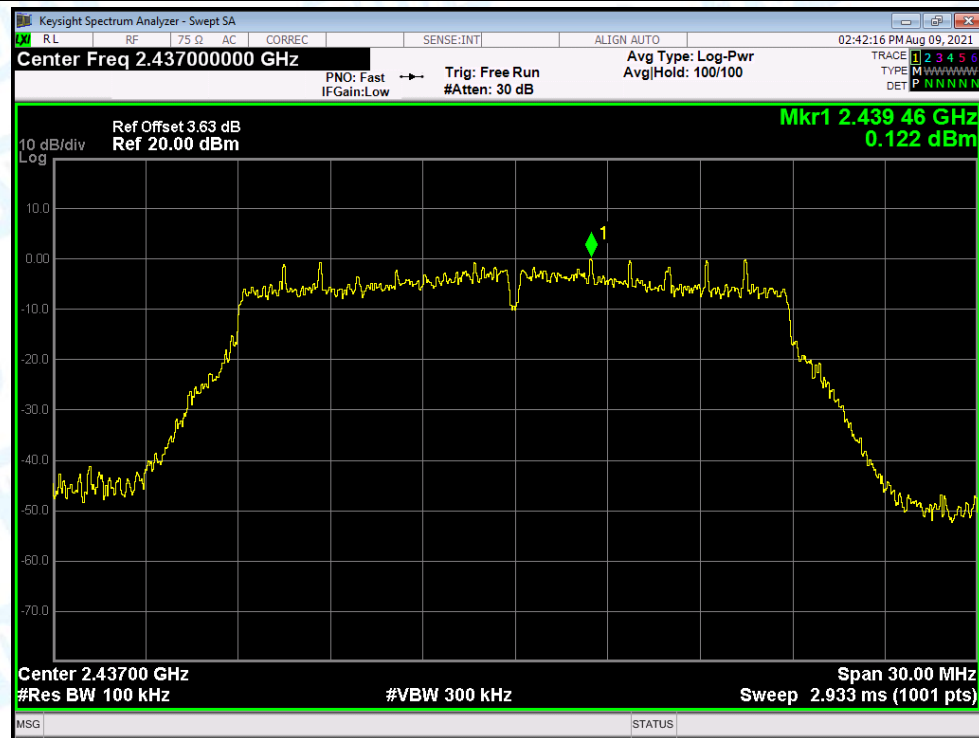
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



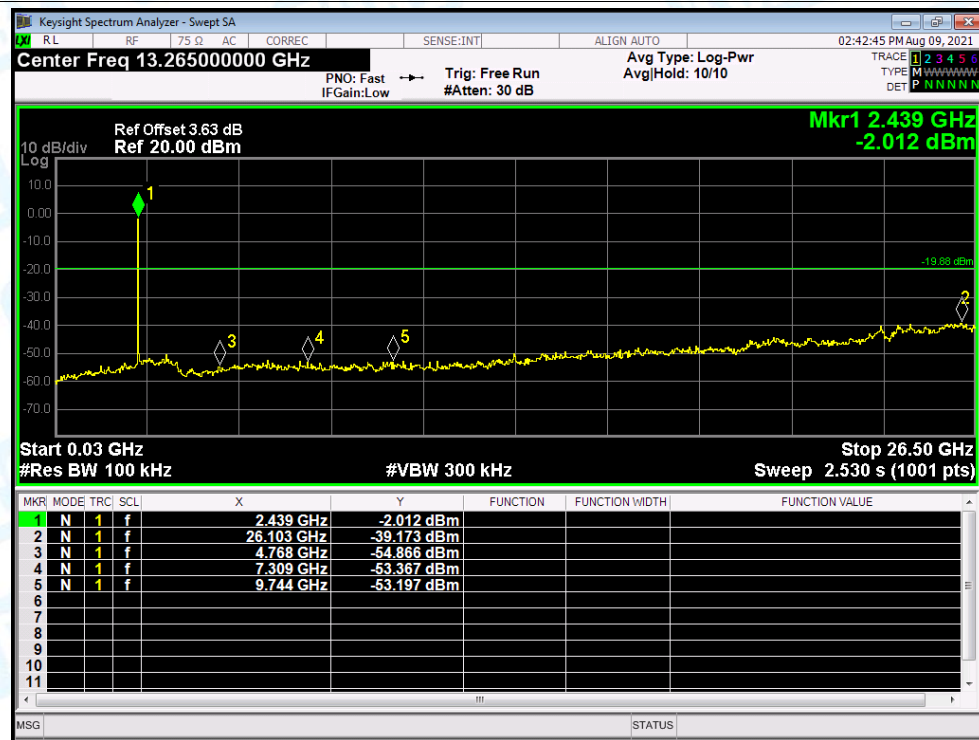
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



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



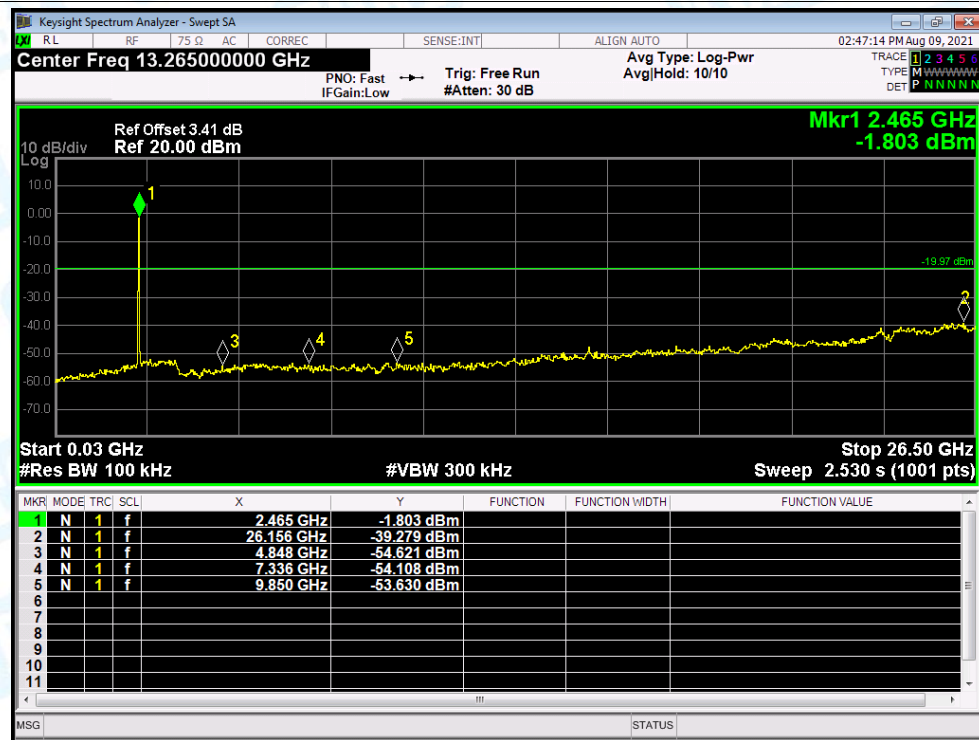
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



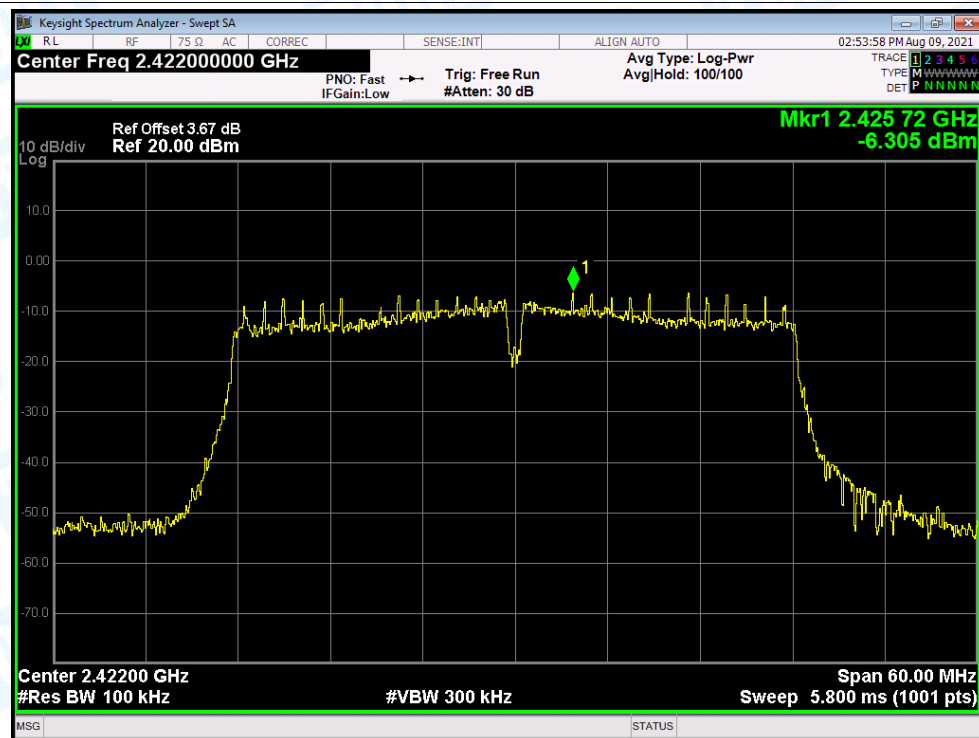
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



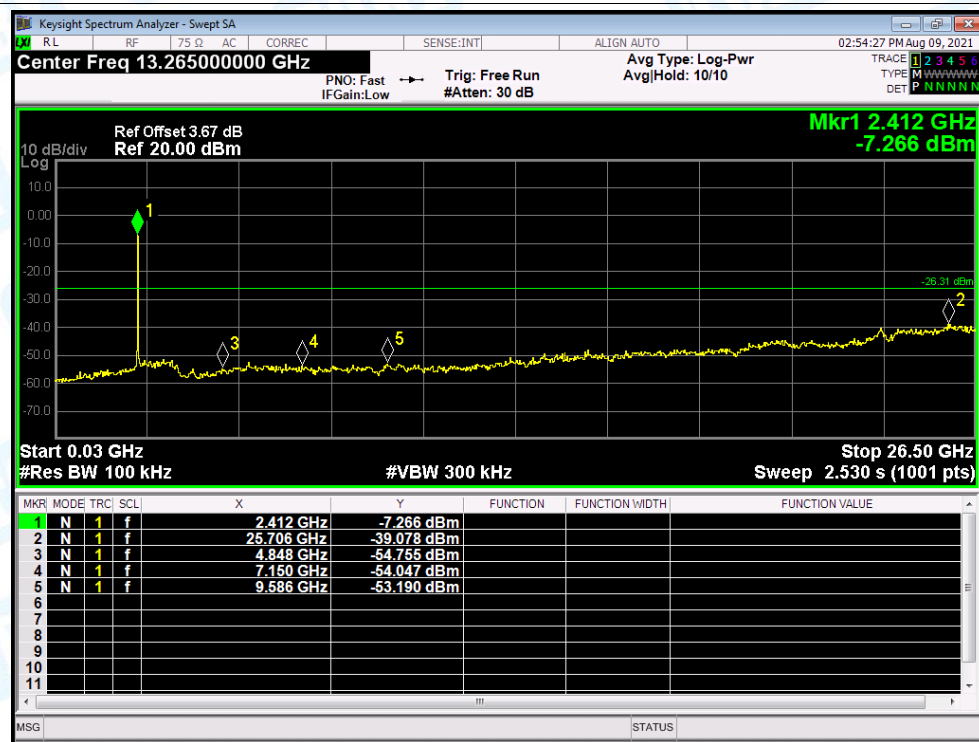
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Ref



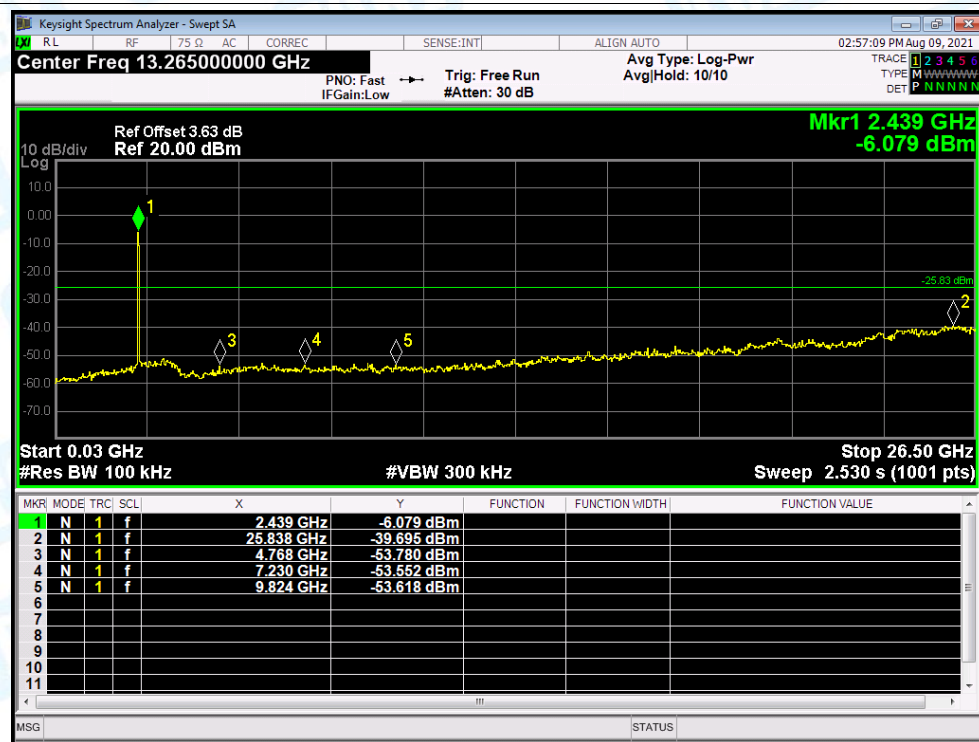
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Emission



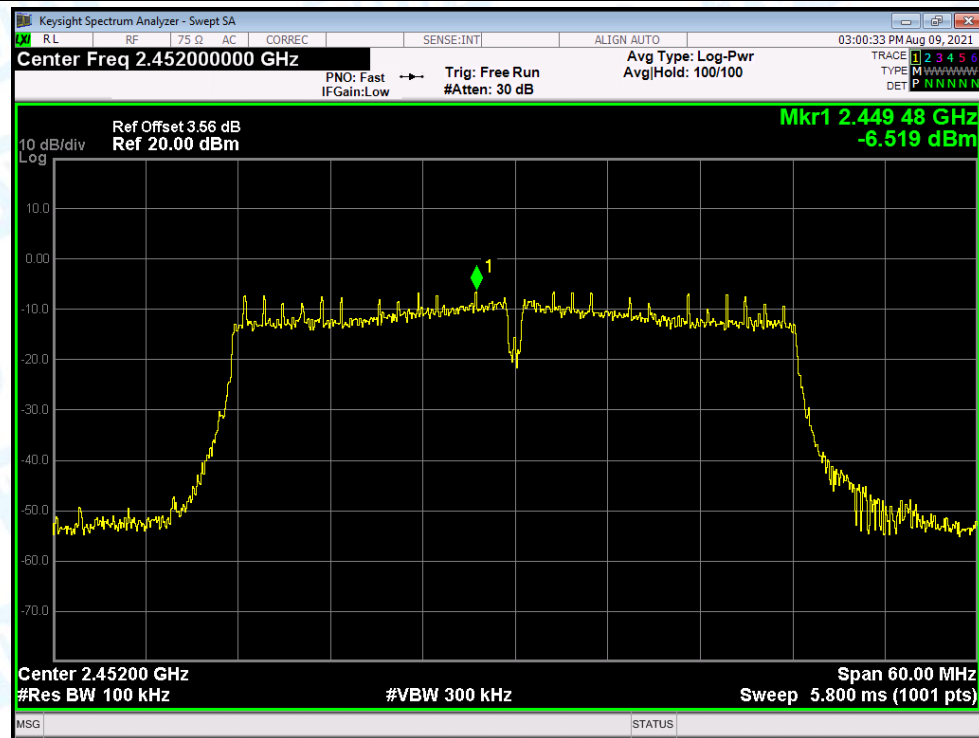
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



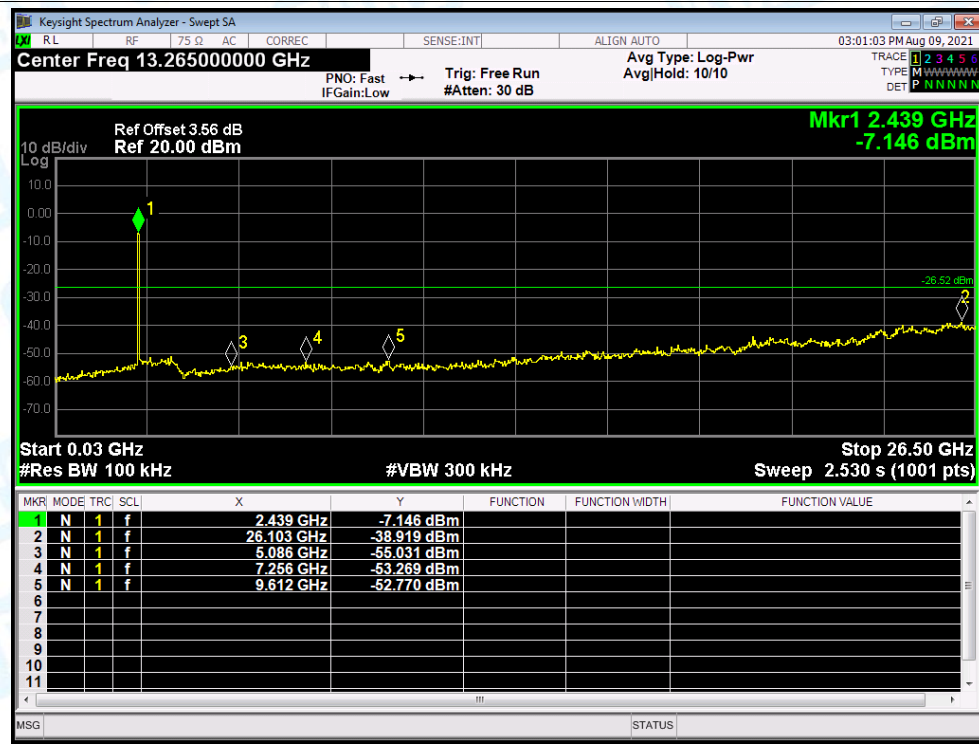
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Ref



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission



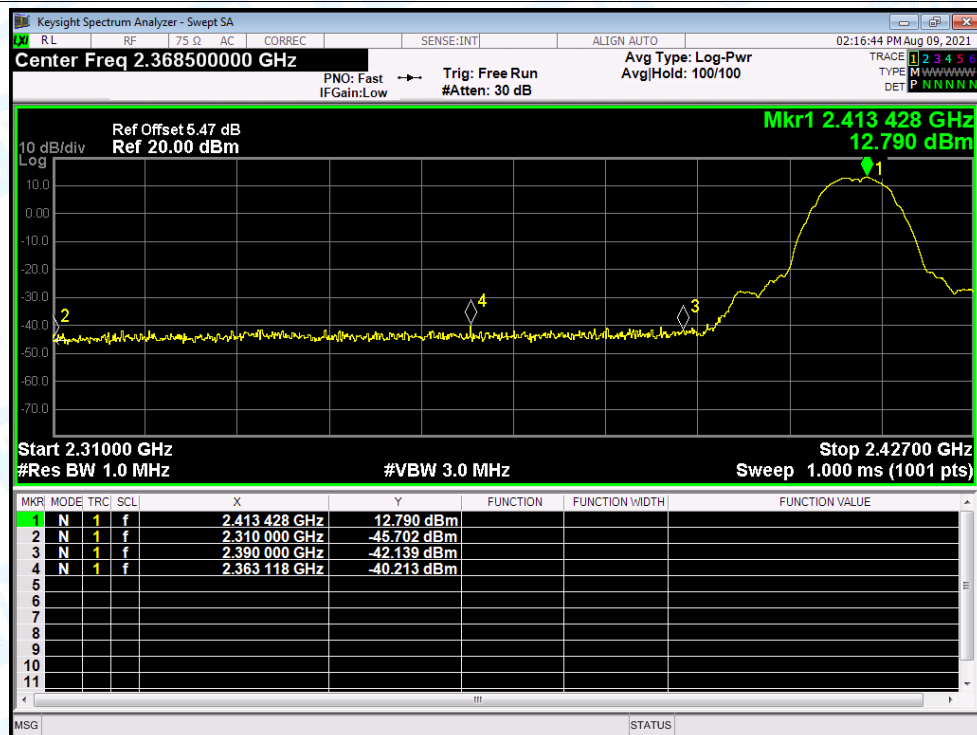
Restrict Band

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	-43.45	2	53.81	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-55.05	2	42.21	Average	54	Pass
NVNT	b	2412	Ant1	2363.118	-40.21	2	57.05	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-52.35	2	44.91	Average	54	Pass
NVNT	b	2412	Ant1	2390	-42.13	2	55.13	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-52.21	2	45.05	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-40.98	2	56.28	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-51.05	2	46.21	Average	54	Pass
NVNT	b	2462	Ant1	2483.941	-39.02	2	58.24	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-51.05	2	46.21	Average	54	Pass
NVNT	b	2462	Ant1	2500	-44.2	2	53.06	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-53.65	2	43.61	Average	54	Pass
NVNT	g	2412	Ant1	2310	-43.93	2	53.33	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.38	2	41.88	Average	54	Pass
NVNT	g	2412	Ant1	2389.794	-31.63	2	65.63	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-50.28	2	46.98	Average	54	Pass
NVNT	g	2412	Ant1	2390	-39.41	2	57.85	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-50.19	2	47.07	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-40.71	2	56.55	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-50.99	2	46.27	Average	54	Pass
NVNT	g	2462	Ant1	2484.842	-37.56	2	59.7	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-50.99	2	46.27	Average	54	Pass
NVNT	g	2462	Ant1	2500	-45.16	2	52.1	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-54.17	2	43.09	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-45.61	2	51.65	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-55.39	2	41.87	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2389.209	-34.9	2	62.36	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-50.61	2	46.65	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-36.74	2	60.52	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-50.55	2	46.71	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-42.08	2	55.18	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-51.58	2	45.68	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2487.704	-38.42	2	58.84	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-51.58	2	45.68	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-45.5	2	51.76	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-54.21	2	43.05	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2310	-46.79	2	50.47	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2310	-55.37	2	41.89	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2381.284	-39.55	2	57.71	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2389.662	-52.2	2	45.06	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2390	-42.69	2	54.57	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2390	-52.2	2	45.06	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-42.2	2	55.06	Peak	74	Pass

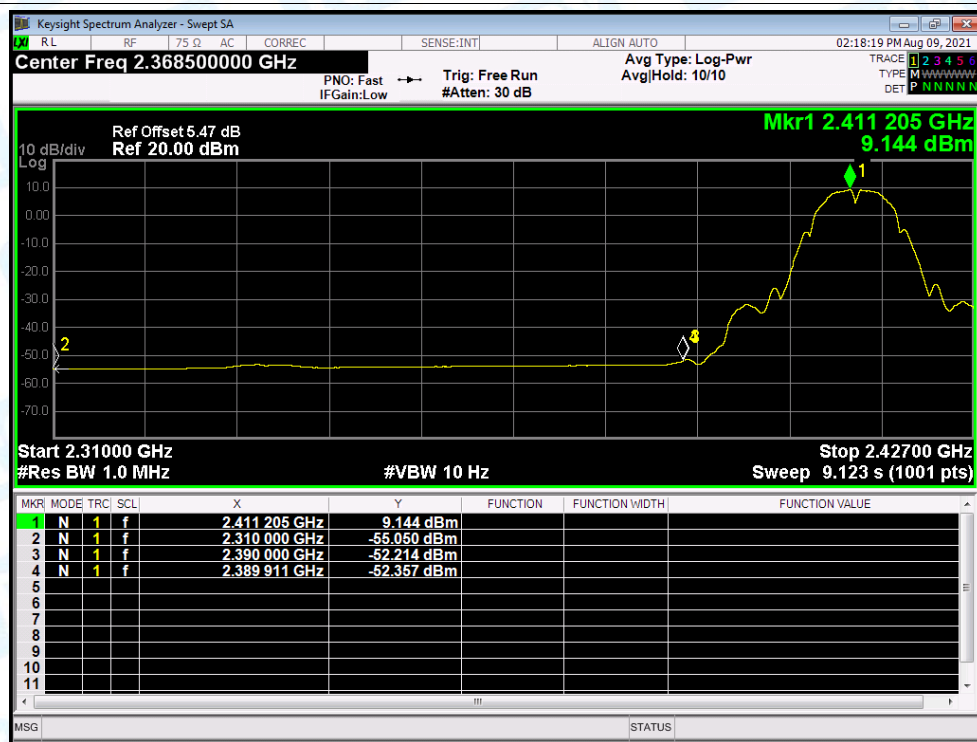
NVNT	n(HT40)	2452	Ant1	2483.5	-52.67	2	44.59	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2485.882	-38.1	2	59.16	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.542	-52.67	2	44.59	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2500	-43.91	2	53.35	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2500	-53.45	2	43.81	Average	54	Pass

Test Graphs

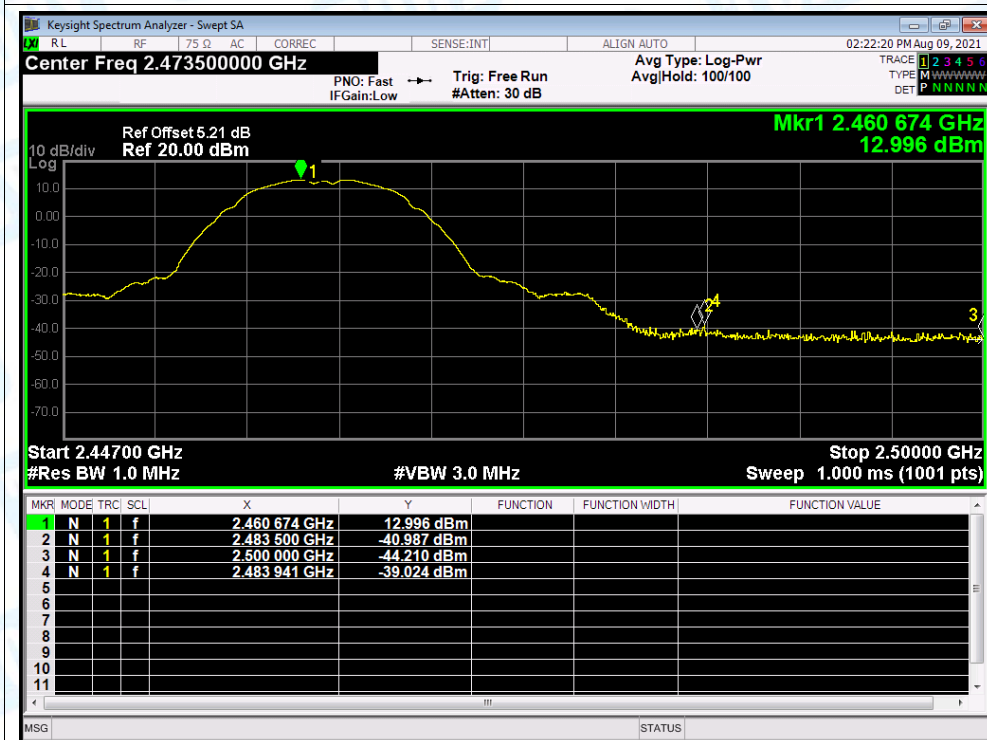
Restrict Band NVNT b 2412MHz Ant1 Peak



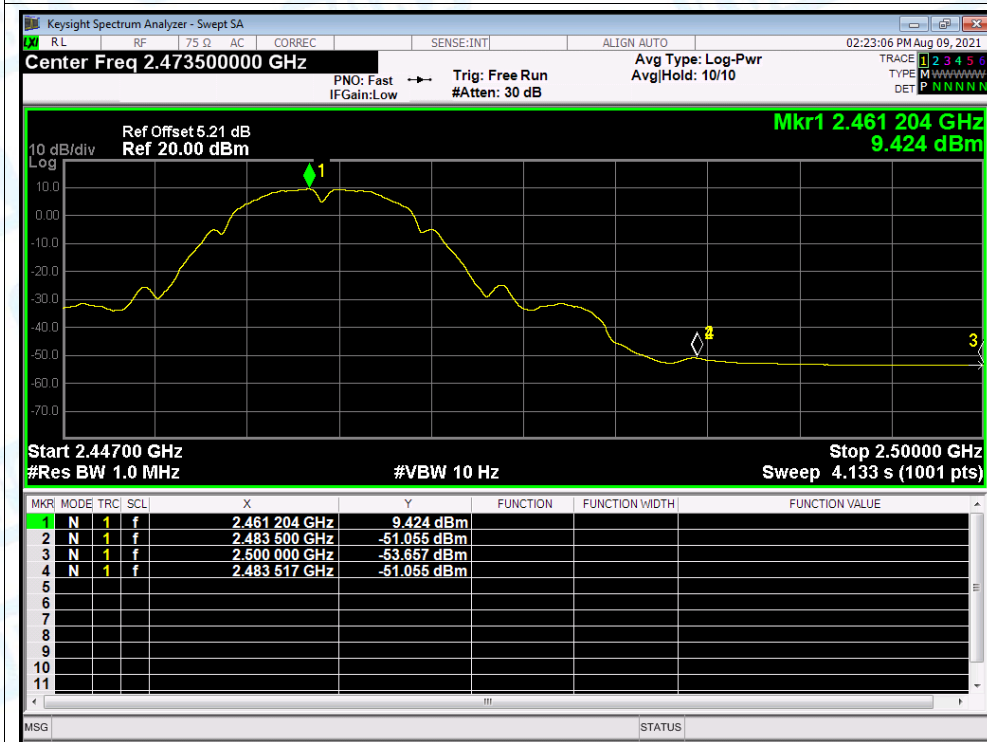
Restrict Band NVNT b 2412MHz Ant1 Average



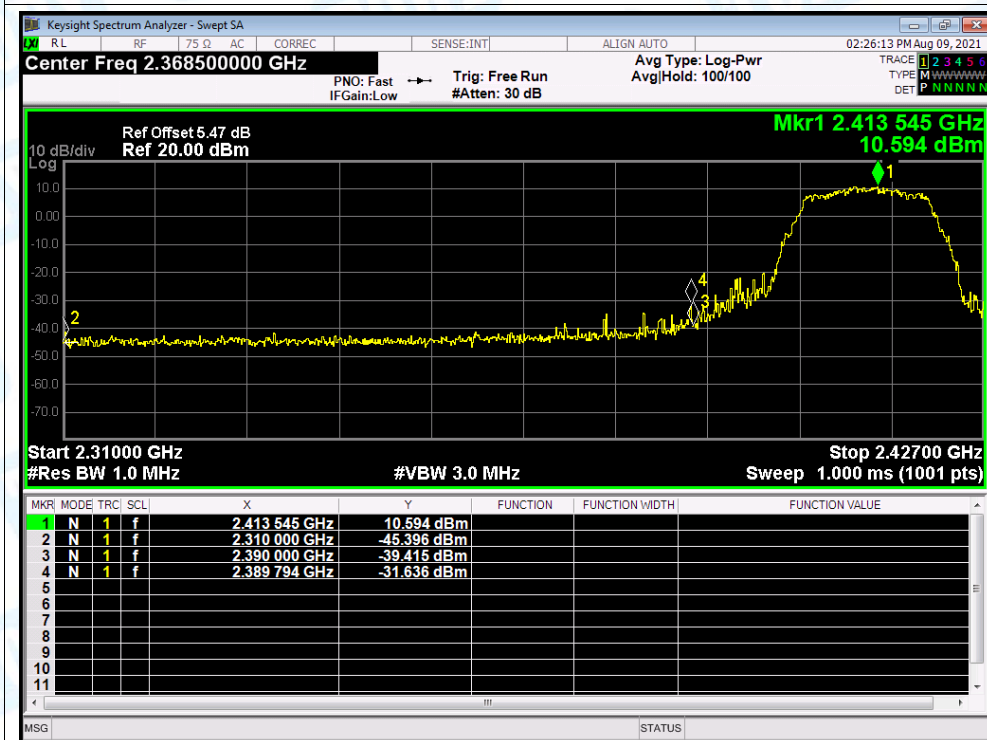
Restrict Band NVNT b 2462MHz Ant1 Peak



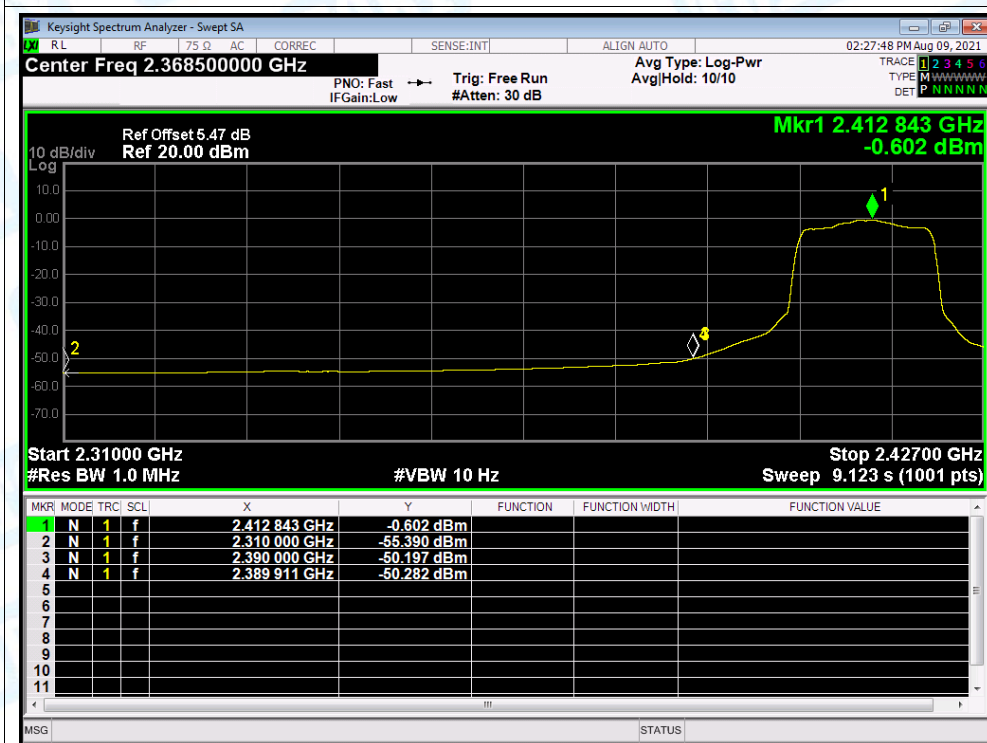
Restrict Band NVNT b 2462MHz Ant1 Average



Restrict Band NVNT g 2412MHz Ant1 Peak



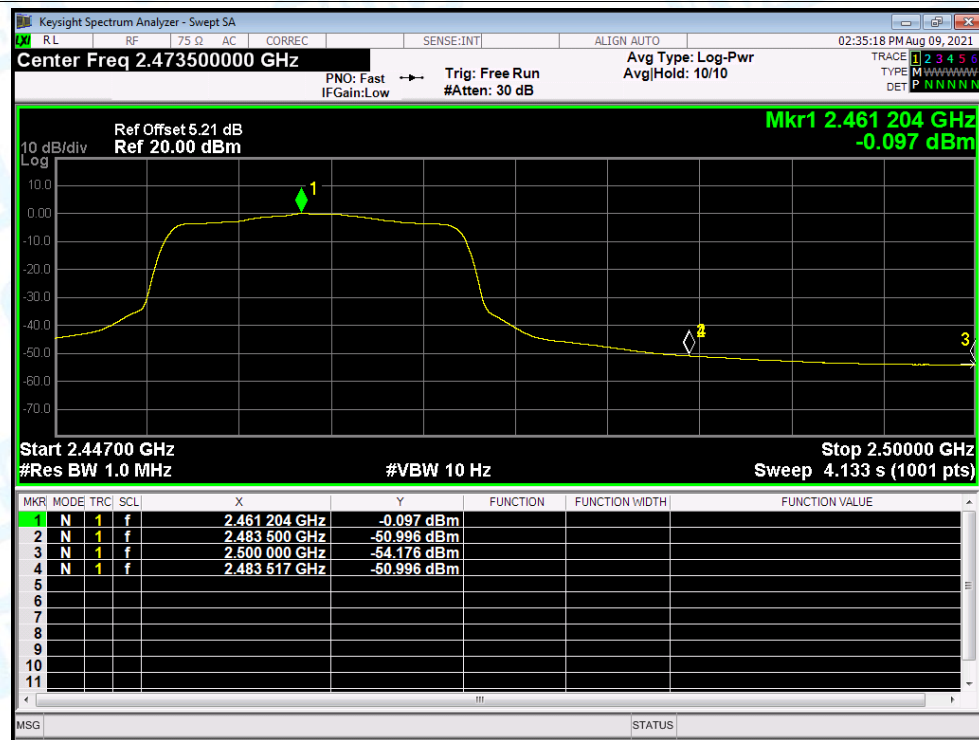
Restrict Band NVNT g 2412MHz Ant1 Average



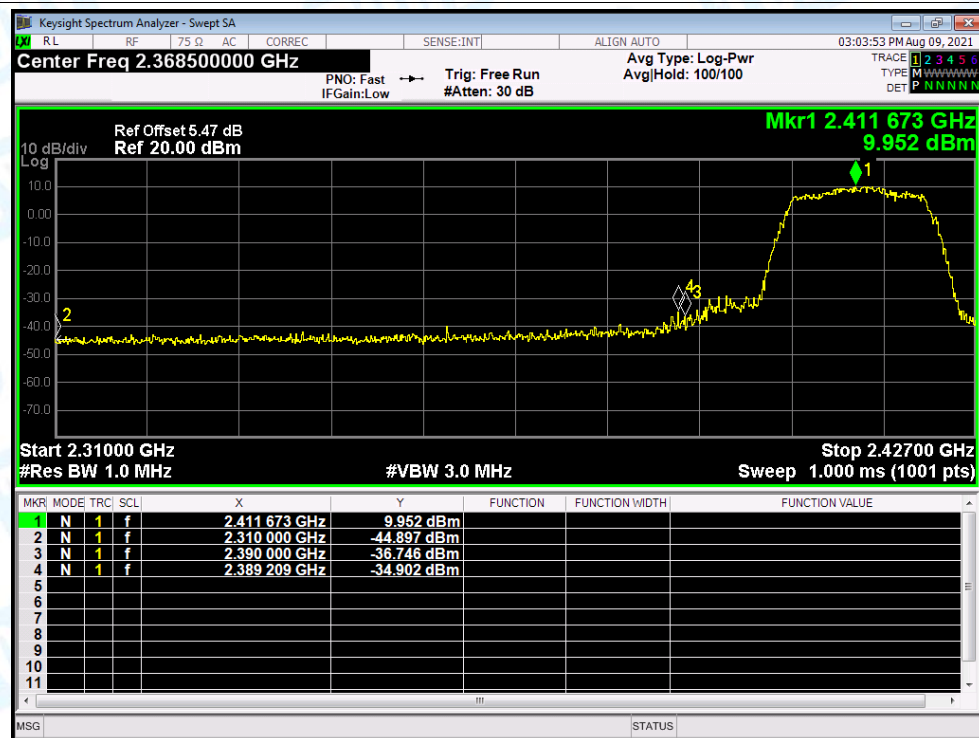
Restrict Band NVNT g 2462MHz Ant1 Peak



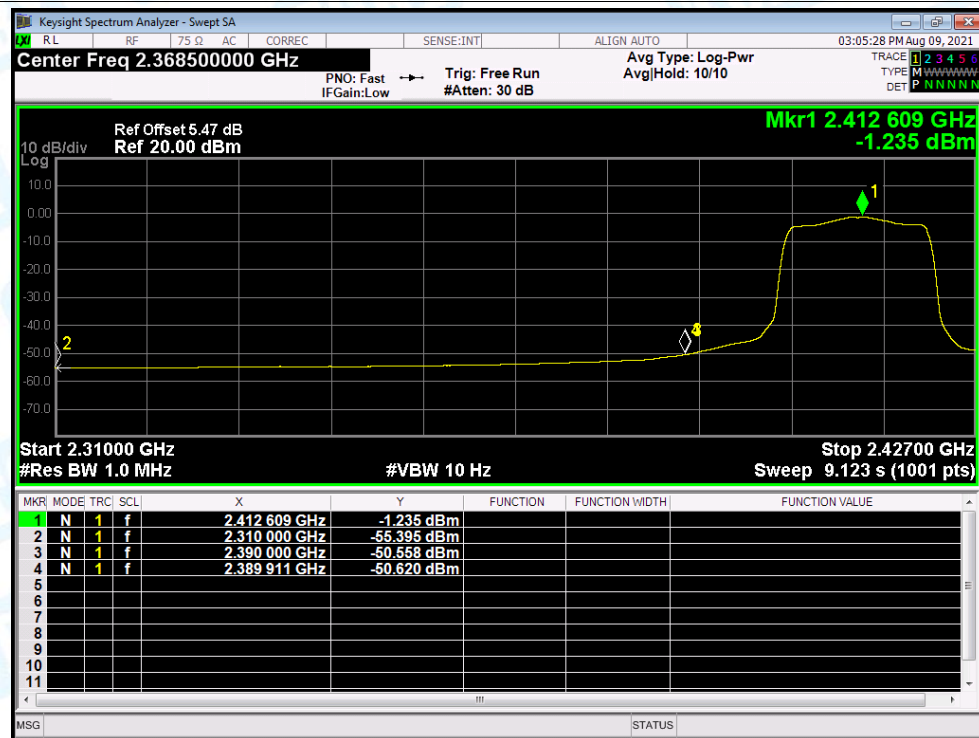
Restrict Band NVNT g 2462MHz Ant1 Average



Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



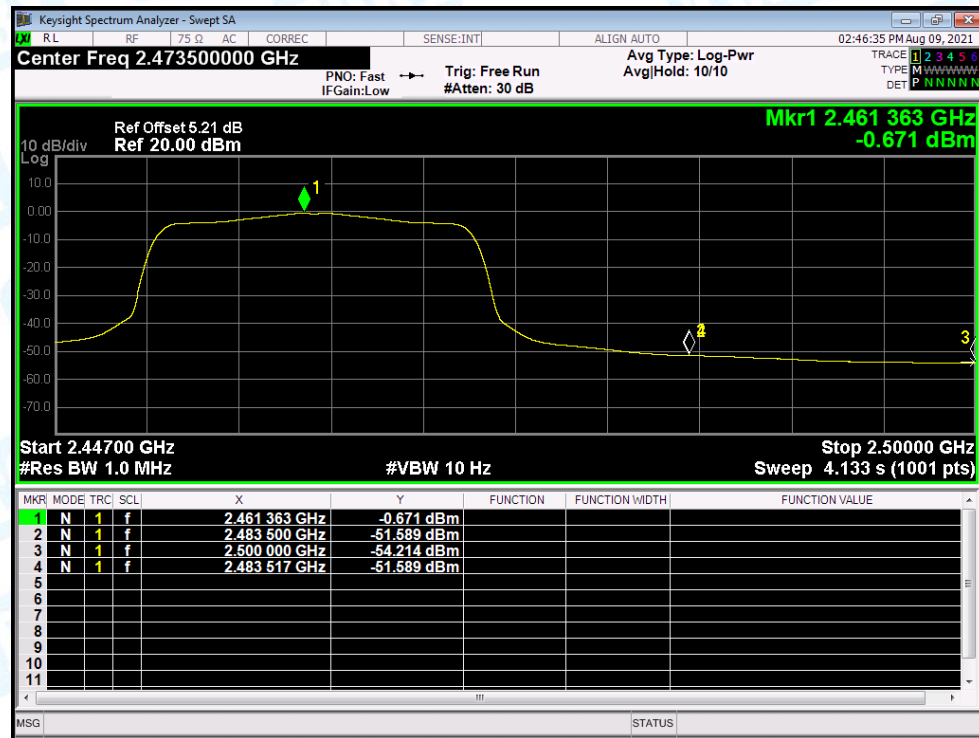
Restrict Band NVNT n(HT20) 2412MHz Ant1 Average



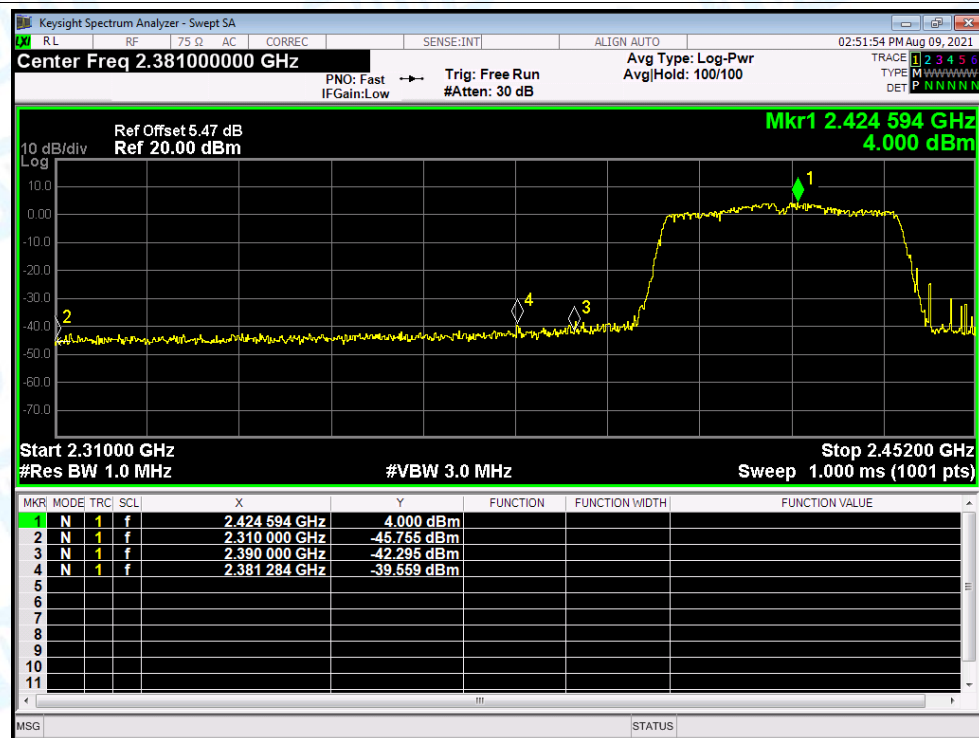
Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



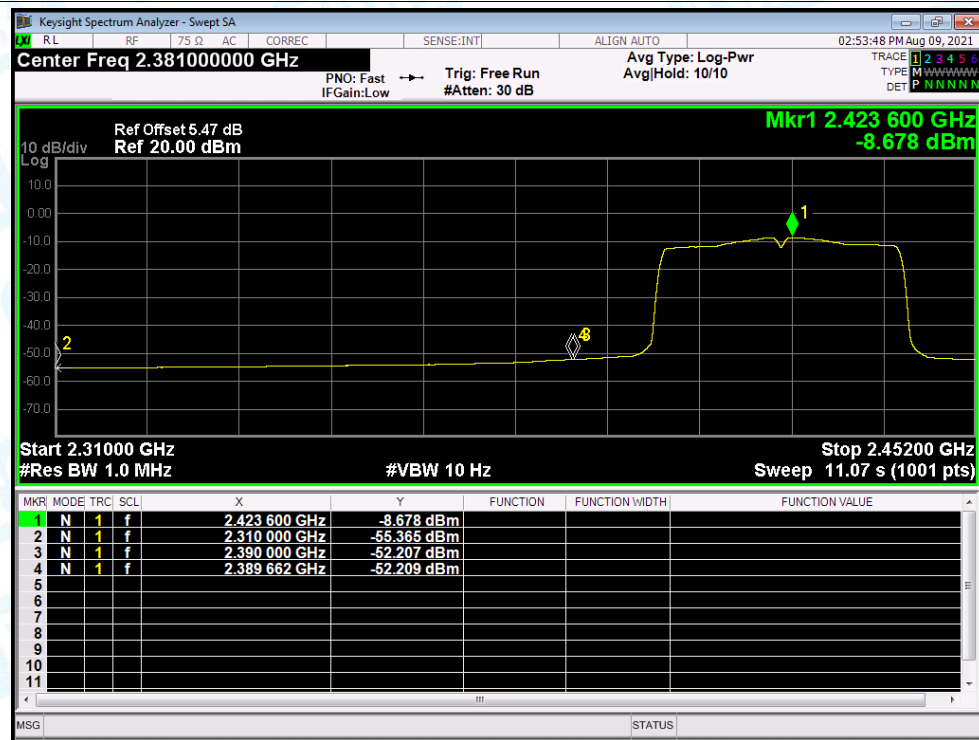
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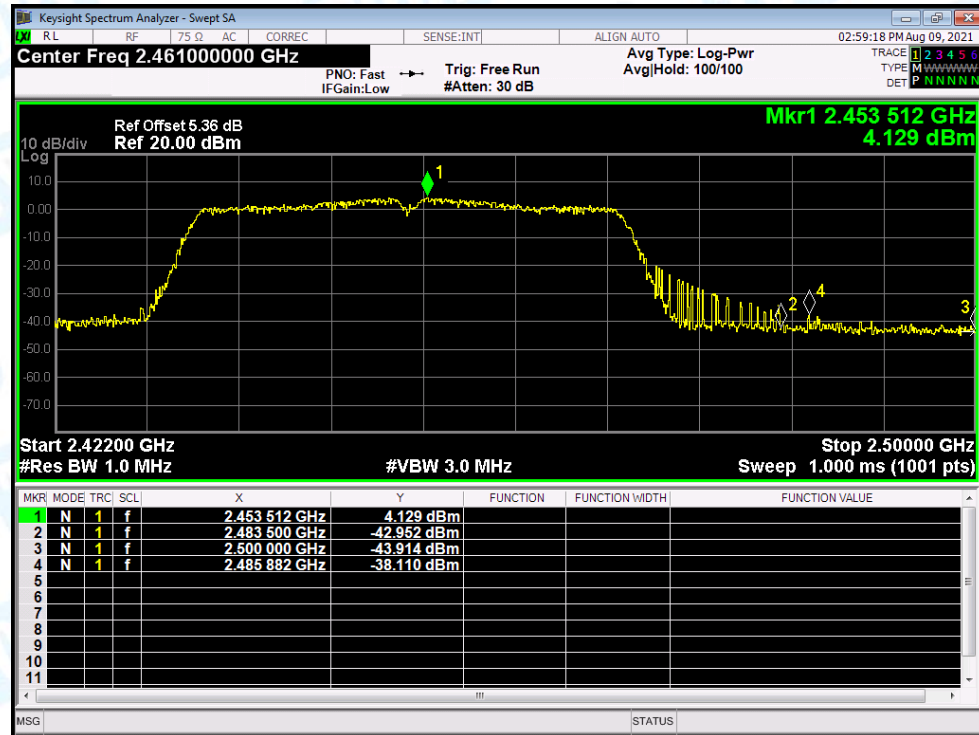
Restrict Band NVNT n(HT40) 2422MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2422MHz Ant1 Average



Restrict Band NVNT n(HT40) 2452MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2452MHz Ant1 Average

