

RF Test Data for 2.4G WiFi (Conducted Measurements)

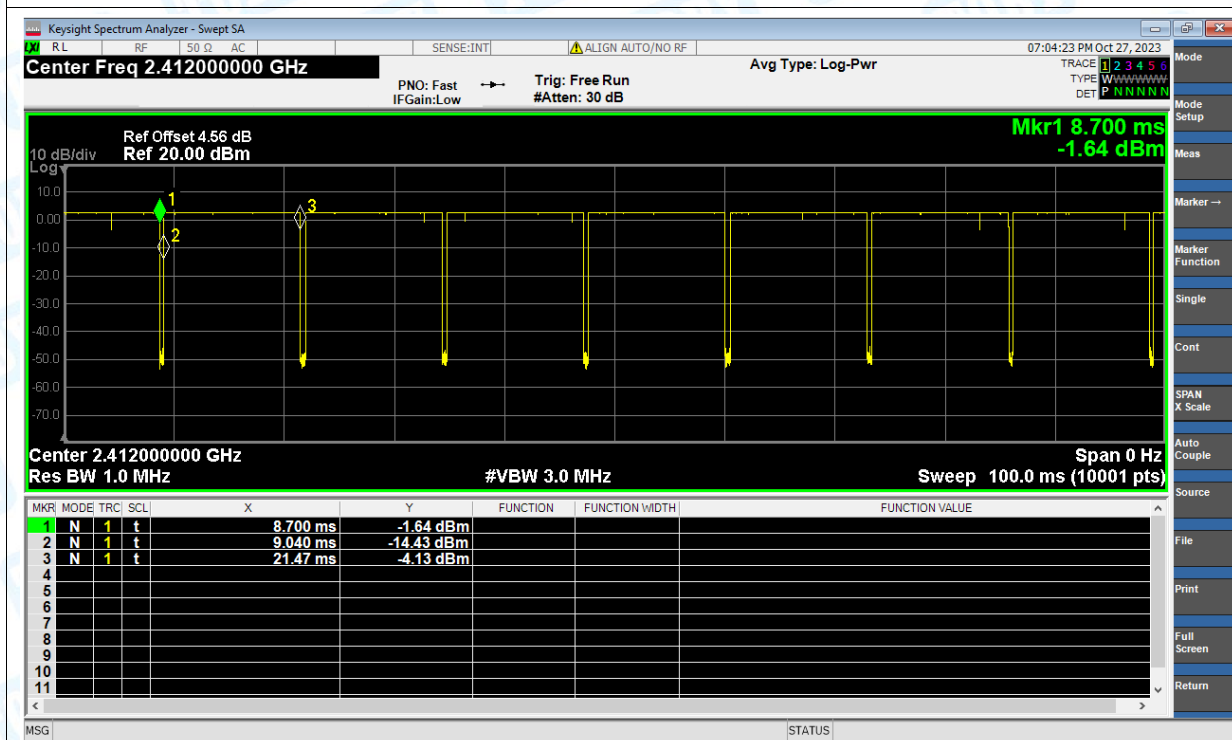
General Description of EUT	
Product Name:	Lixel L2 120 V1
Test Model:	Lixel
Sample ID:	HC-C-202309-0278-01-01-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC 14.4V
Test Engineer:	Liyingjing
Note: For a more detailed features description, please refer to the report TBR-C-202309-0278-72 The report only show the worst case data.	

Duty Cycle

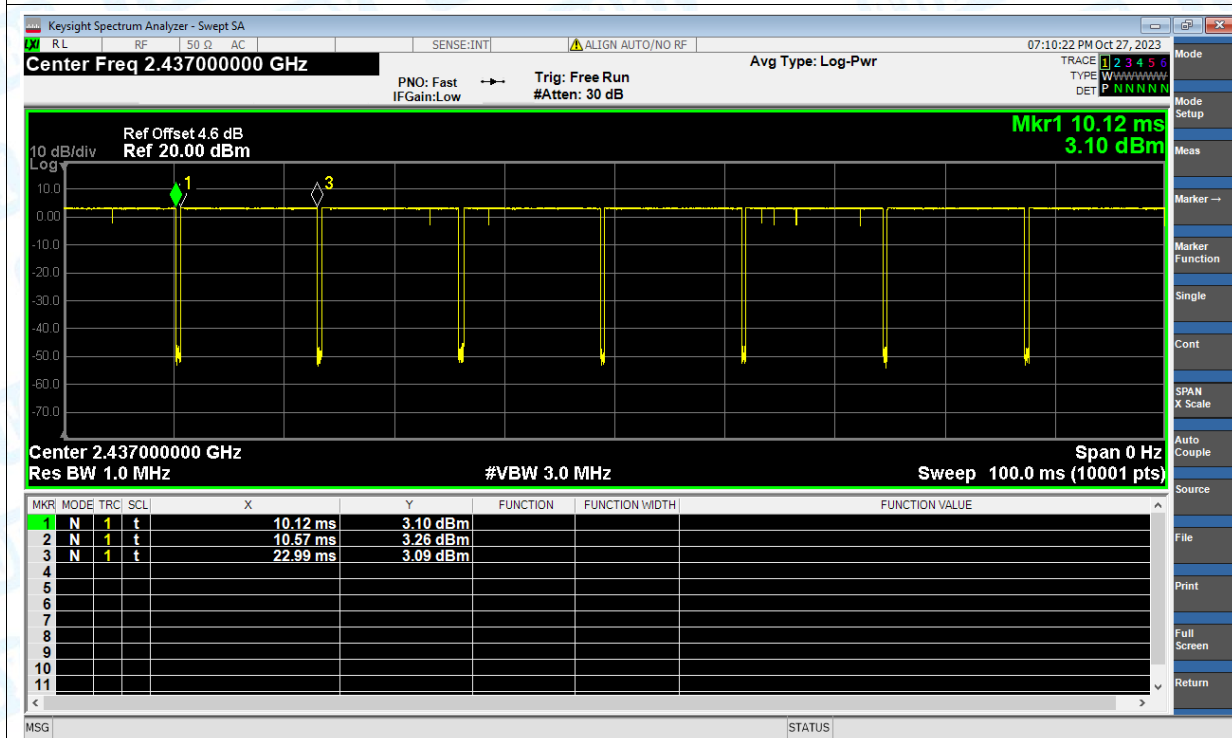
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	97.34	0.12	0.08
NVNT	b	2437	Ant1	96.5	0.15	0.08
NVNT	b	2462	Ant1	97.34	0.12	0.08
NVNT	b	2412	Ant2	96.8	0.14	0.08
NVNT	b	2437	Ant2	96.8	0.14	0.08
NVNT	b	2462	Ant2	96.88	0.14	0.08
NVNT	g	2412	Ant1	92	0.36	0.48
NVNT	g	2437	Ant1	93.21	0.31	0.49
NVNT	g	2462	Ant1	93.24	0.3	0.48
NVNT	g	2412	Ant2	91.19	0.4	0.48
NVNT	g	2437	Ant2	93.21	0.31	0.49
NVNT	g	2462	Ant2	92.41	0.34	0.48
NVNT	n(HT20)	2412	Sum	89.3	0.49	0.52
NVNT	n(HT20)	2437	Sum	93.24	0.3	0.52
NVNT	n(HT20)	2462	Sum	89.72	0.47	0.52
NVNT	n(HT40)	2422	Sum	84.82	0.72	1.05
NVNT	n(HT40)	2437	Sum	87.16	0.6	1.05
NVNT	n(HT40)	2452	Sum	81.03	0.91	1.06

Test Graphs

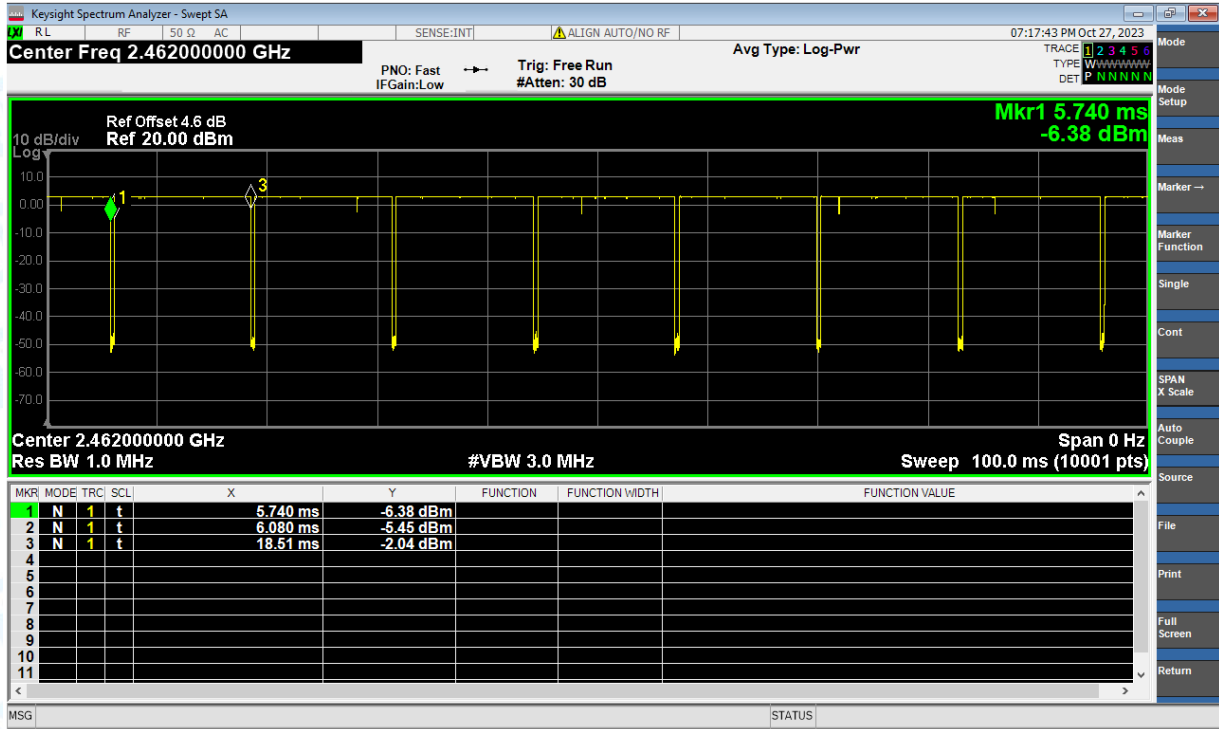
Duty Cycle NVNT b 2412MHz Ant1



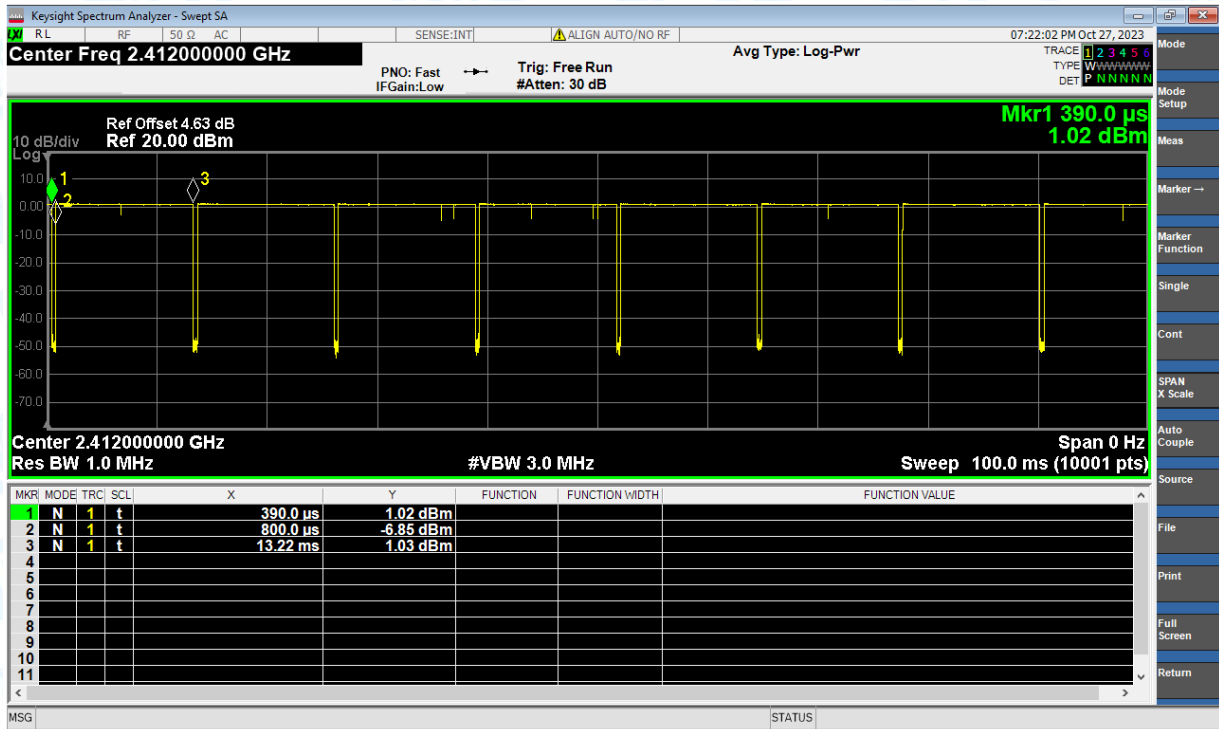
Duty Cycle NVNT b 2437MHz Ant1



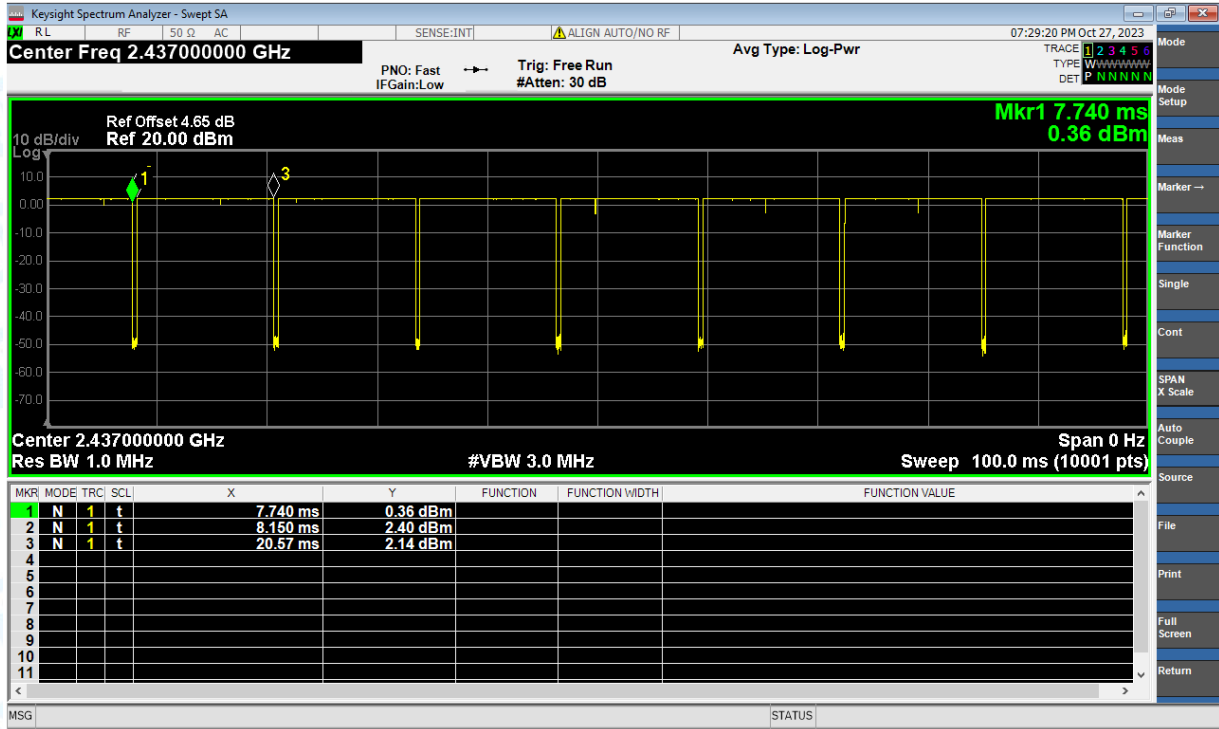
Duty Cycle NVNT b 2462MHz Ant1



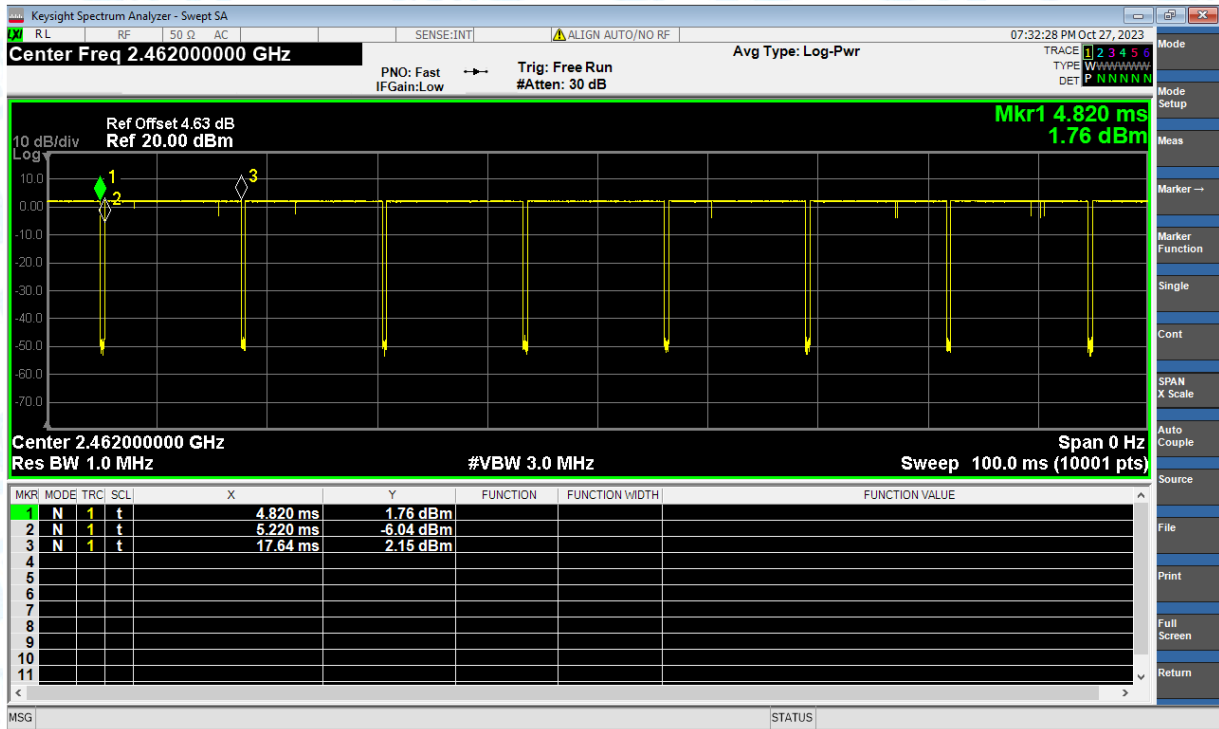
Duty Cycle NVNT b 2412MHz Ant2



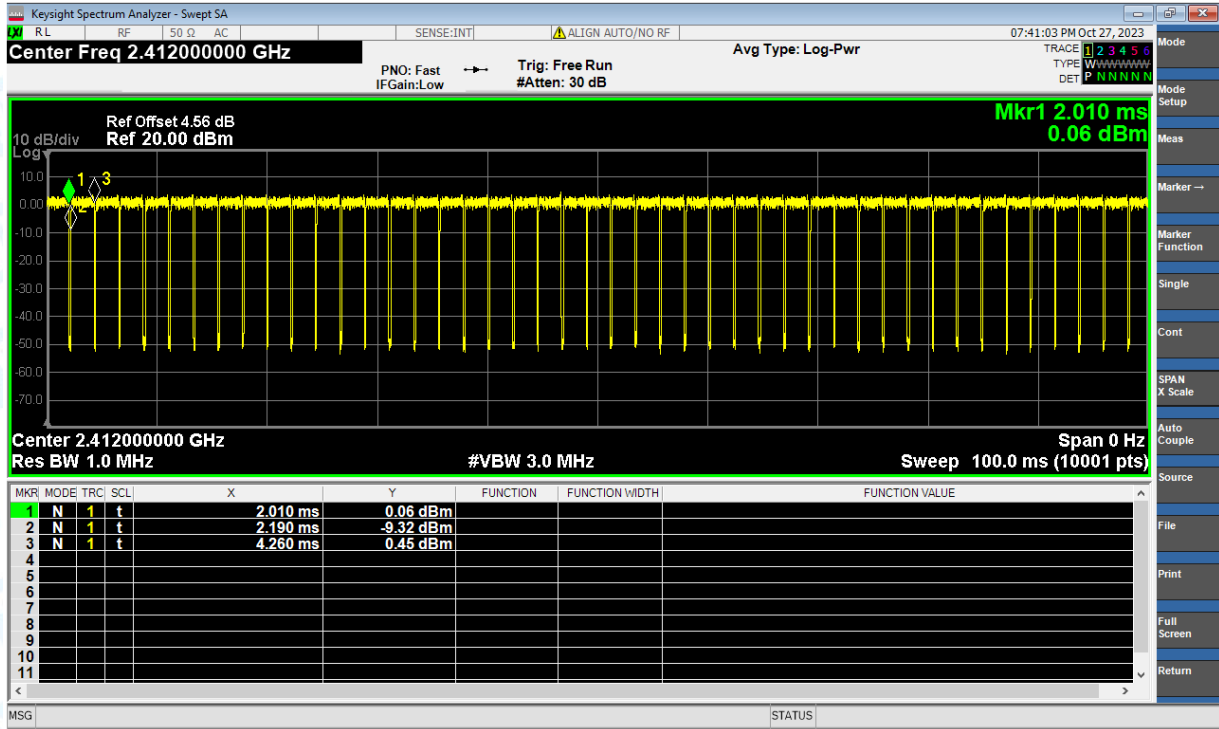
Duty Cycle NVNT b 2437MHz Ant2



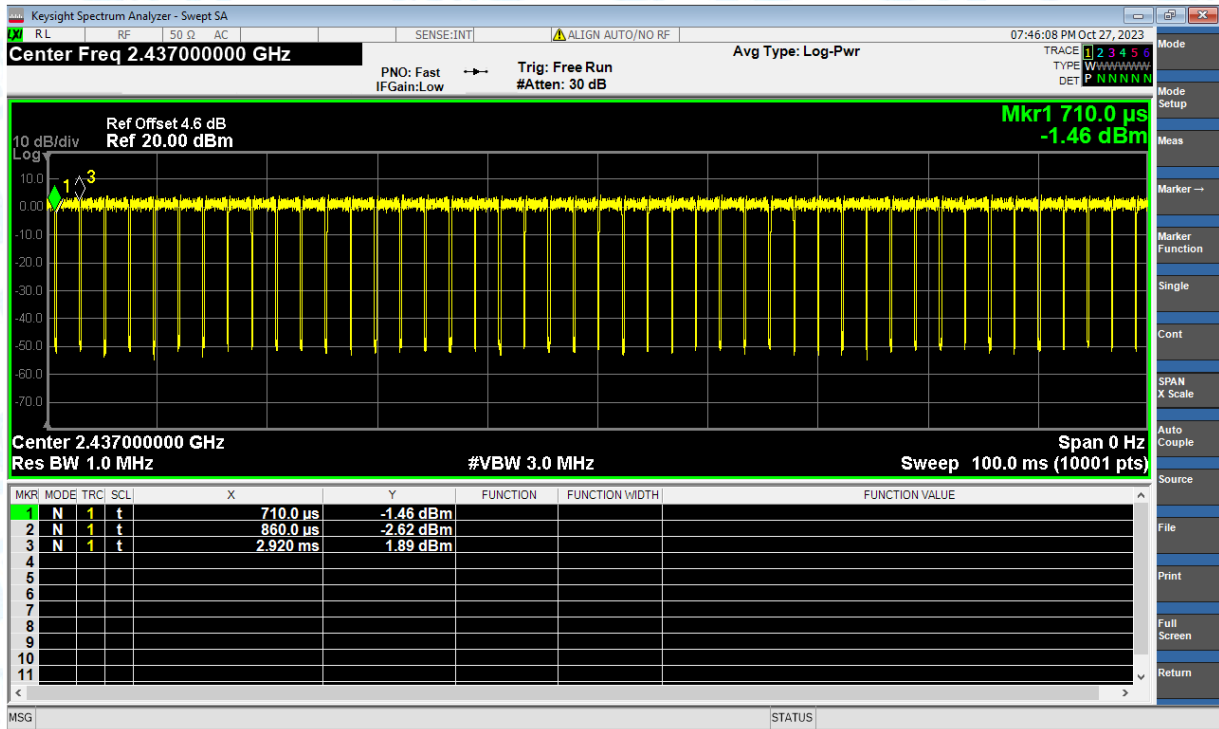
Duty Cycle NVNT b 2462MHz Ant2



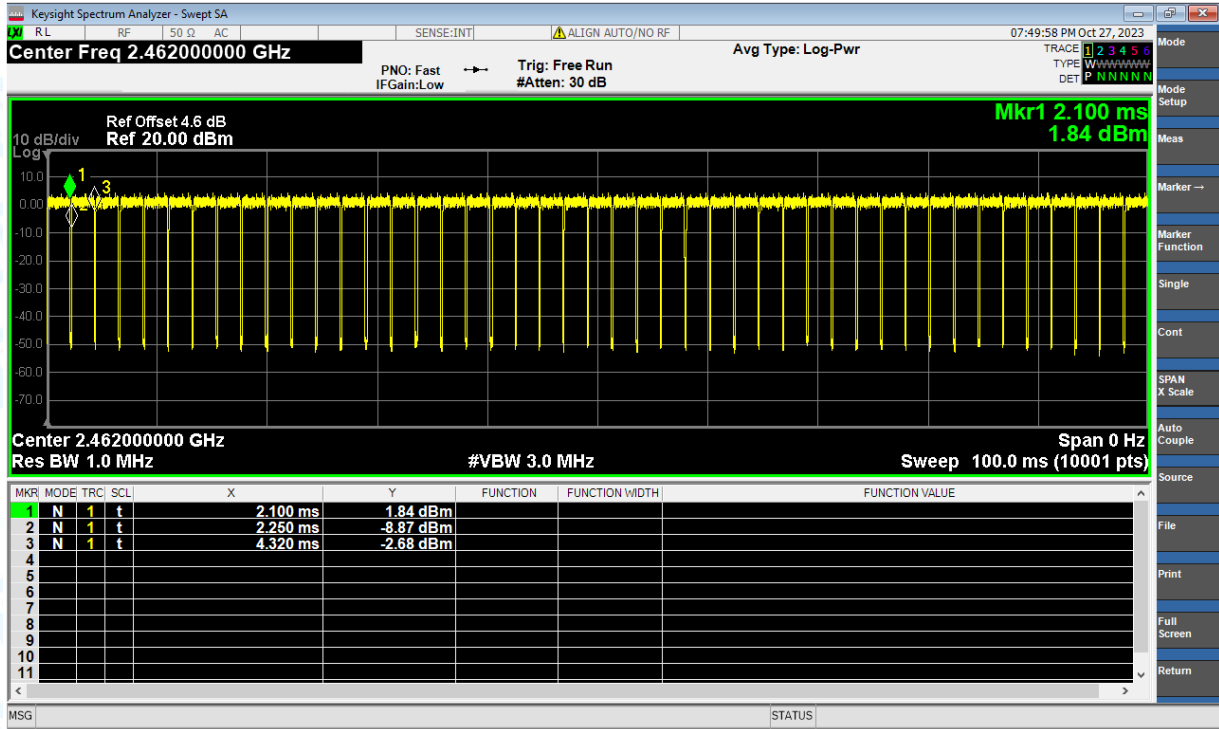
Duty Cycle NVNT g 2412MHz Ant1



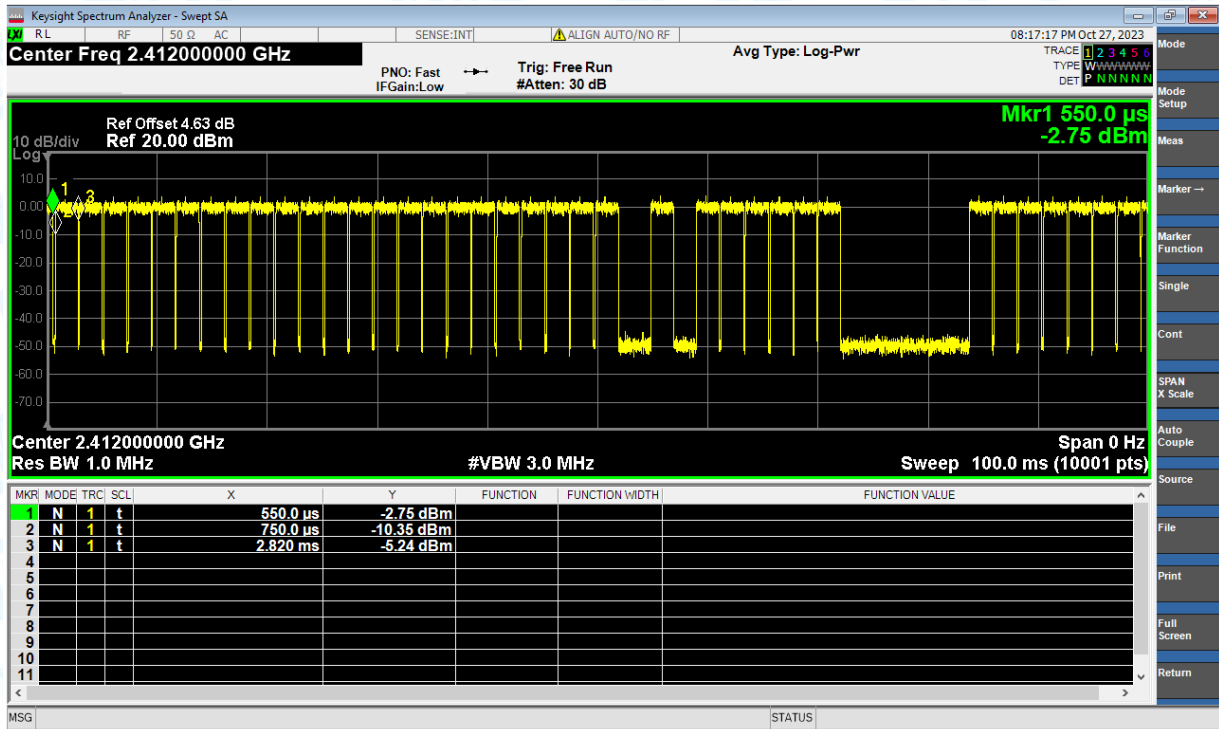
Duty Cycle NVNT g 2437MHz Ant1



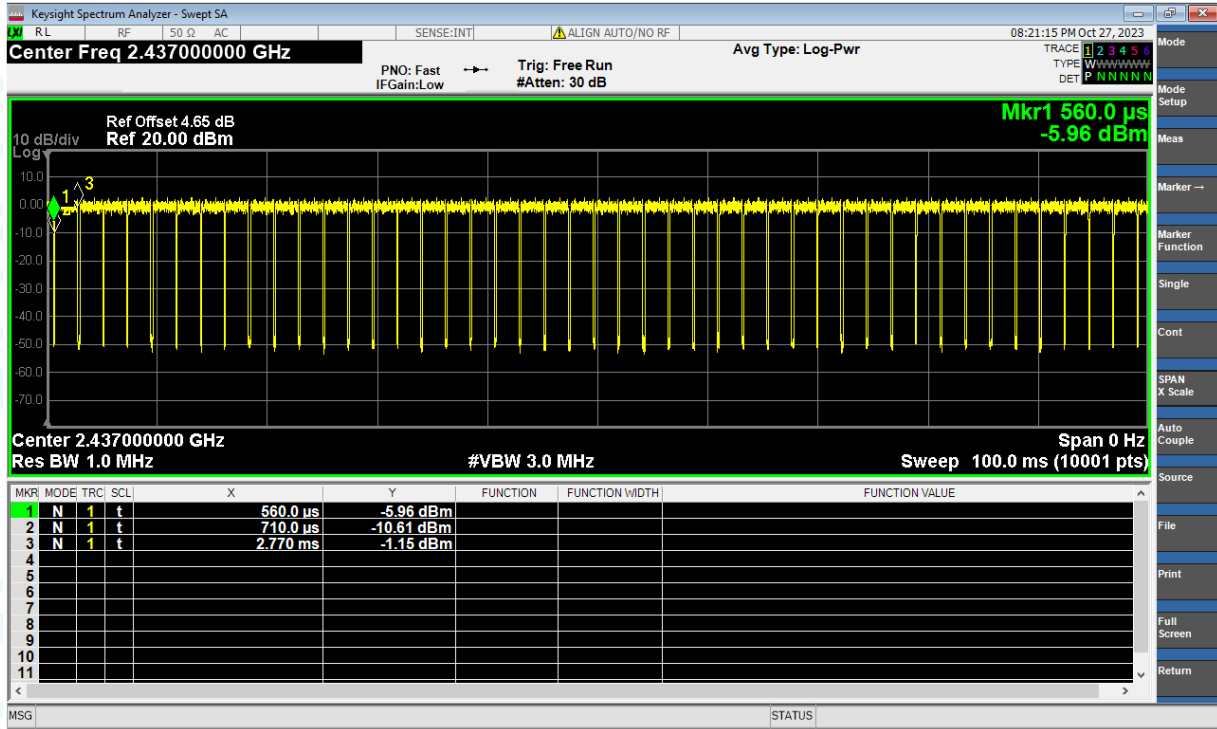
Duty Cycle NVNT g 2462MHz Ant1



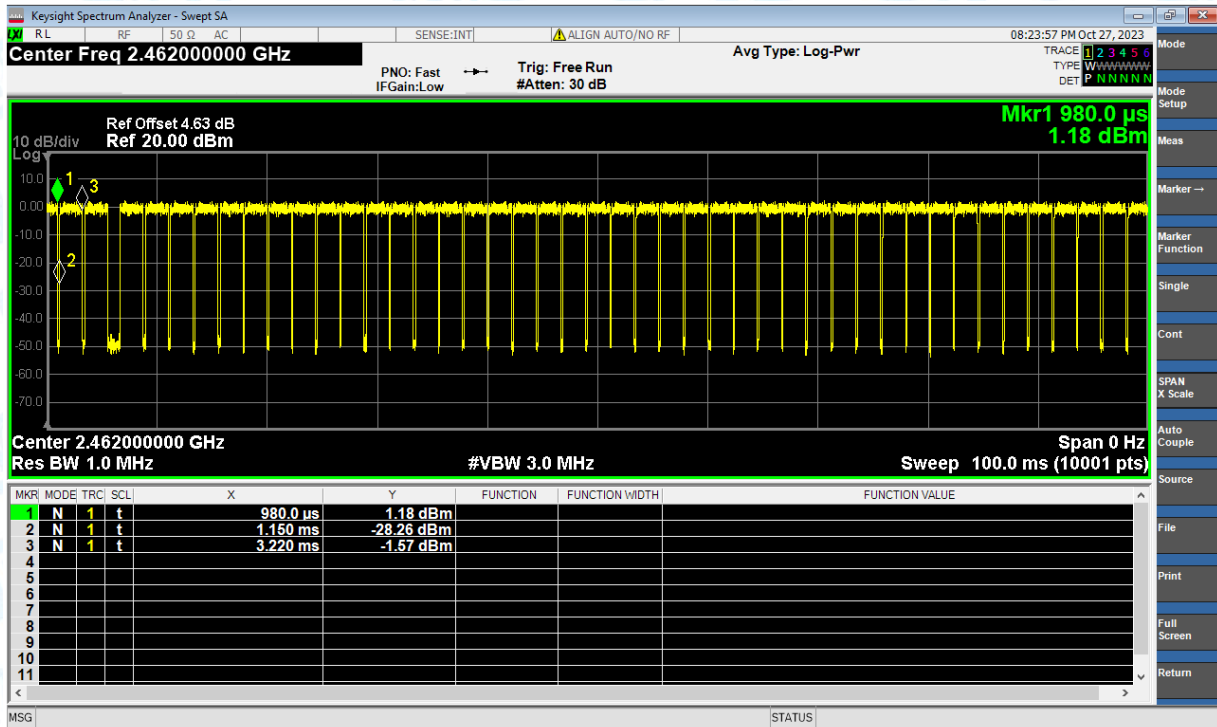
Duty Cycle NVNT g 2412MHz Ant2



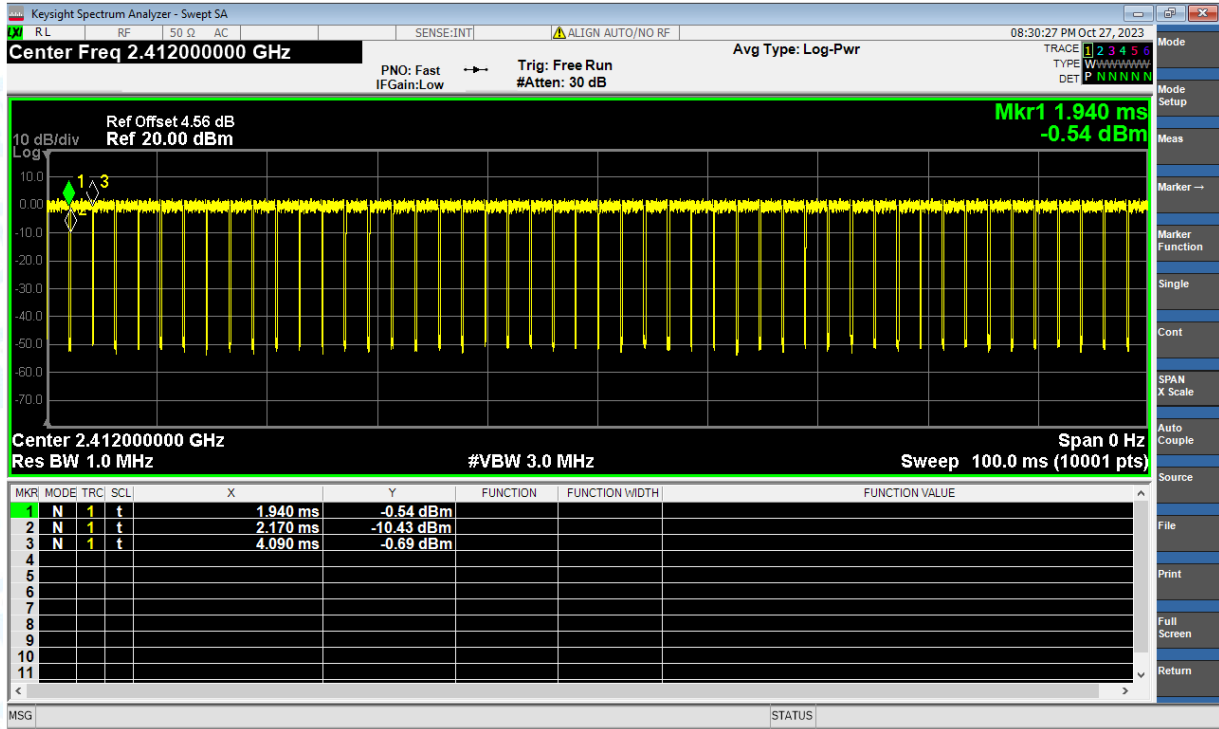
Duty Cycle NVNT g 2437MHz Ant2



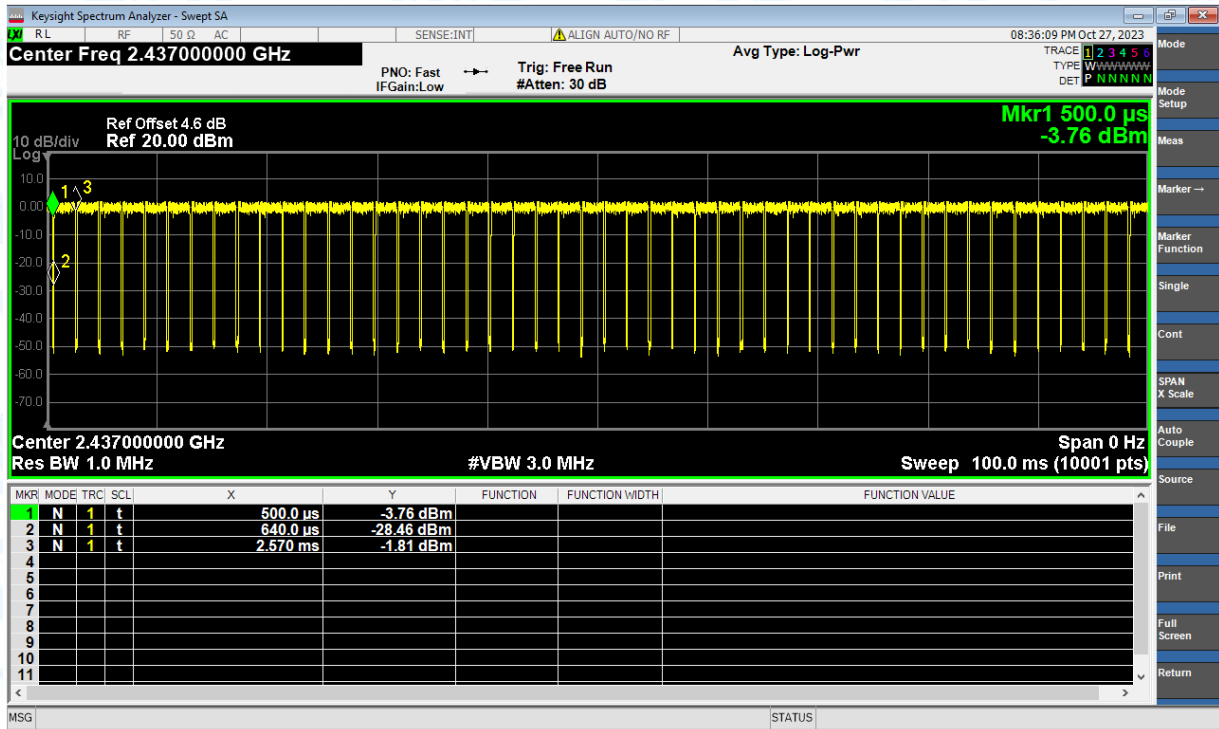
Duty Cycle NVNT g 2462MHz Ant2



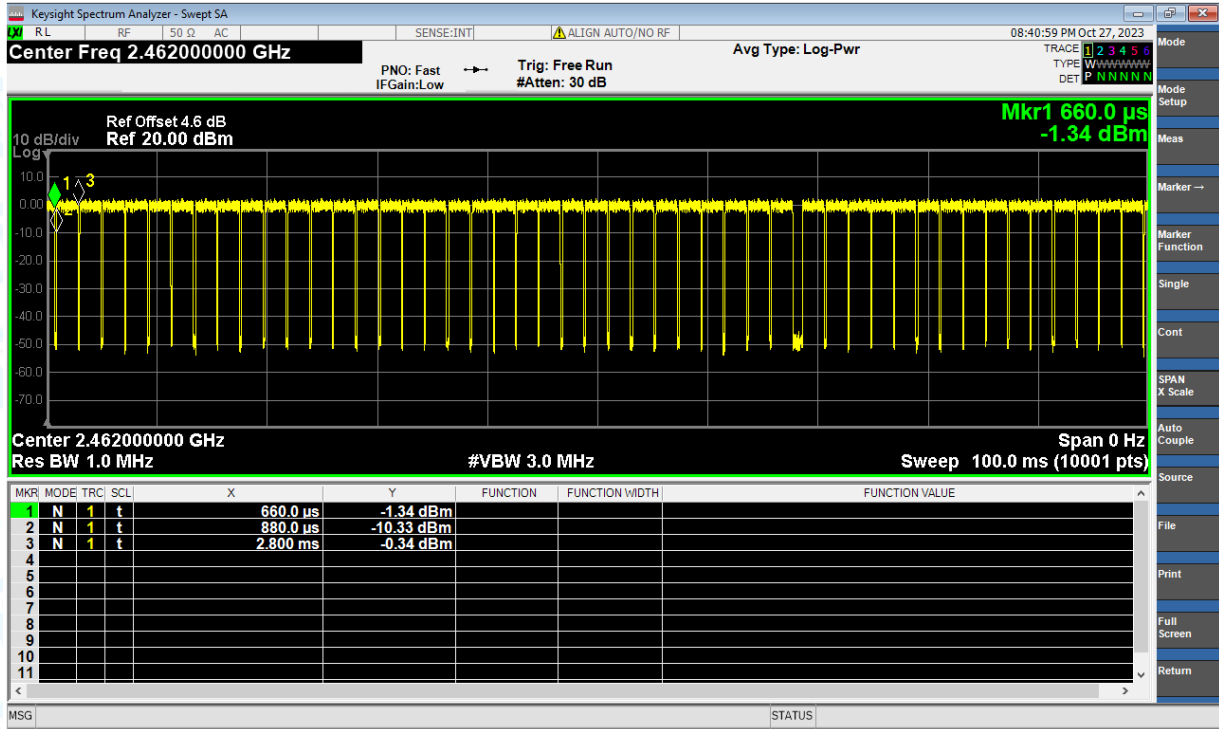
Duty Cycle NVNT n(HT20) 2412MHz Sum



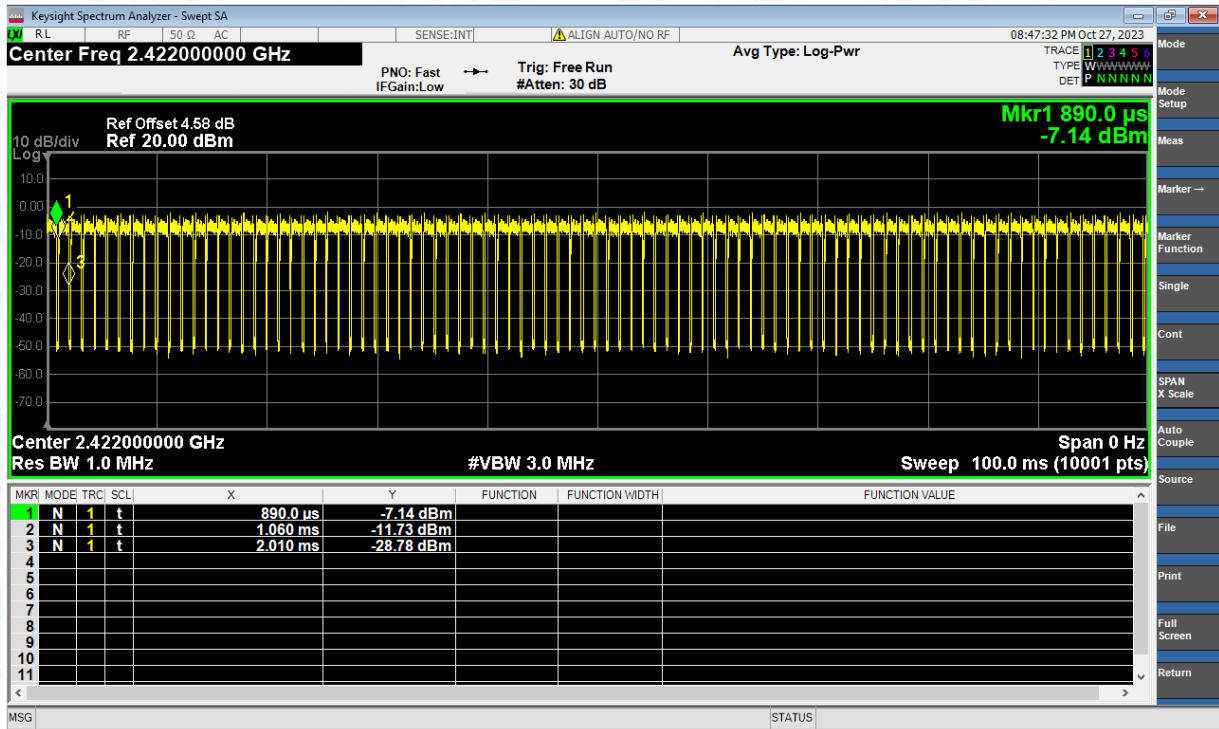
Duty Cycle NVNT n(HT20) 2437MHz Sum



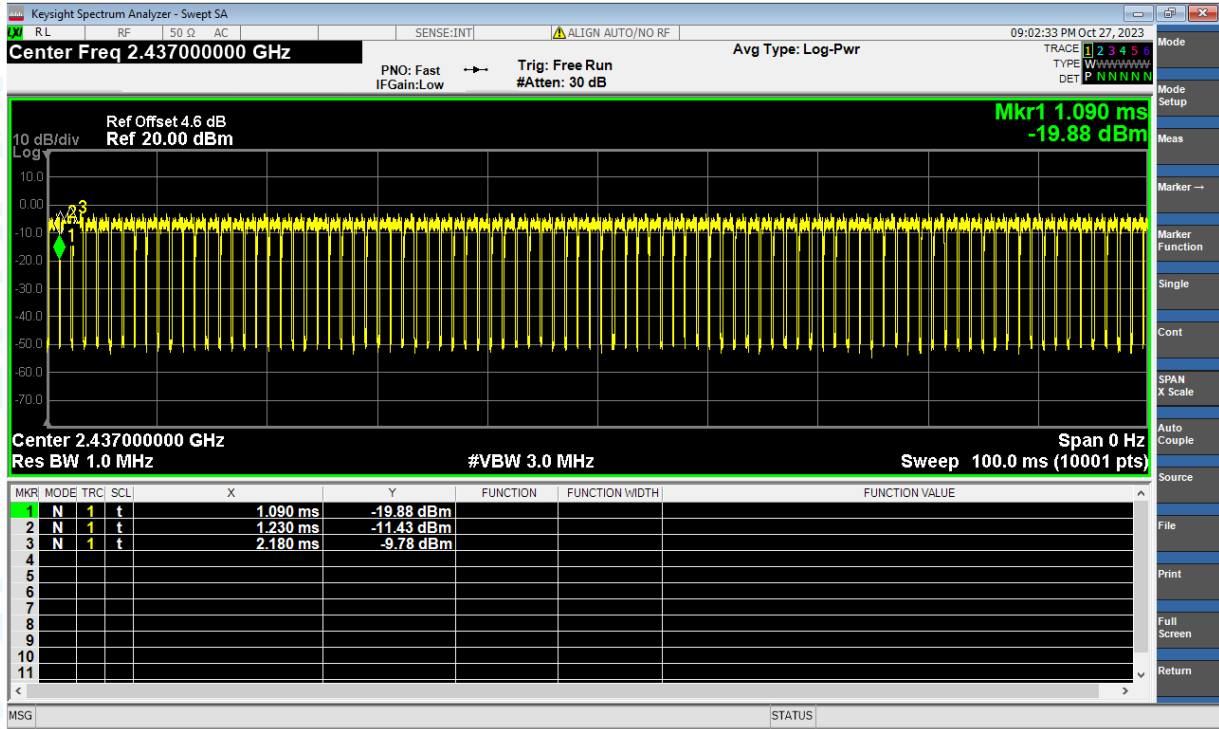
Duty Cycle NVNT n(HT20) 2462MHz Sum



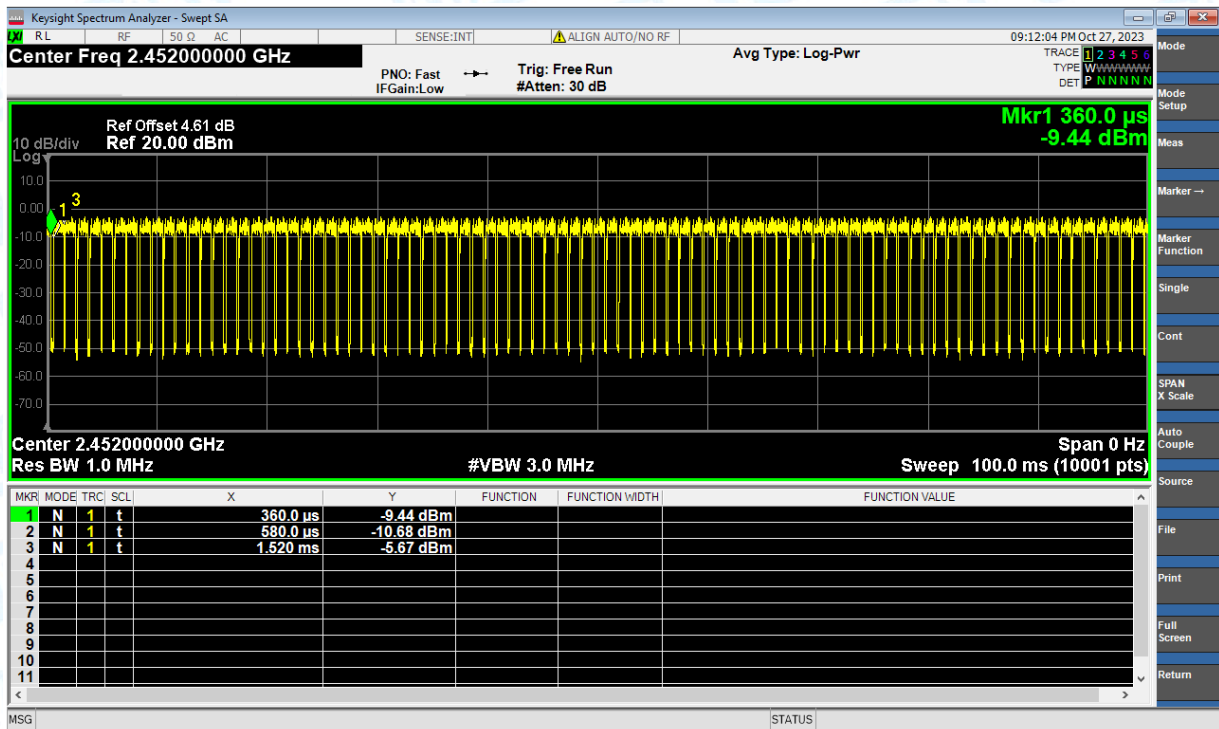
Duty Cycle NVNT n(HT40) 2422MHz Sum



Duty Cycle NVNT n(HT40) 2437MHz Sum



Duty Cycle NVNT n(HT40) 2452MHz Sum



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	8.985	30	Pass
NVNT	b	2437	Ant1	8.28	30	Pass
NVNT	b	2462	Ant1	8.189	30	Pass
NVNT	b	2412	Ant2	8.106	30	Pass
NVNT	b	2437	Ant2	8.708	30	Pass
NVNT	b	2462	Ant2	8.498	30	Pass
NVNT	g	2412	Ant1	7.85	30	Pass
NVNT	g	2437	Ant1	7.821	30	Pass
NVNT	g	2462	Ant1	7.829	30	Pass
NVNT	g	2412	Ant2	6.492	30	Pass
NVNT	g	2437	Ant2	6.151	30	Pass
NVNT	g	2462	Ant2	6.042	30	Pass
NVNT	n(HT20)	2412	Ant1	6.51	30	Pass
NVNT	n(HT20)	2412	Ant2	3.789	30	Pass
NVNT	n(HT20)	2412	Sum	8.37	30	Pass
NVNT	n(HT20)	2437	Ant1	6.876	30	Pass
NVNT	n(HT20)	2437	Ant2	4.405	30	Pass
NVNT	n(HT20)	2437	Sum	8.824	30	Pass
NVNT	n(HT20)	2462	Ant1	6.502	30	Pass
NVNT	n(HT20)	2462	Ant2	2.833	30	Pass
NVNT	n(HT20)	2462	Sum	8.054	30	Pass
NVNT	n(HT40)	2422	Ant1	6.293	30	Pass
NVNT	n(HT40)	2422	Ant2	4.198	30	Pass
NVNT	n(HT40)	2422	Sum	8.381	30	Pass
NVNT	n(HT40)	2437	Ant1	6.251	30	Pass
NVNT	n(HT40)	2437	Ant2	4.179	30	Pass
NVNT	n(HT40)	2437	Sum	8.348	30	Pass
NVNT	n(HT40)	2452	Ant1	6.88	30	Pass
NVNT	n(HT40)	2452	Ant2	3.957	30	Pass
NVNT	n(HT40)	2452	Sum	8.67	30	Pass

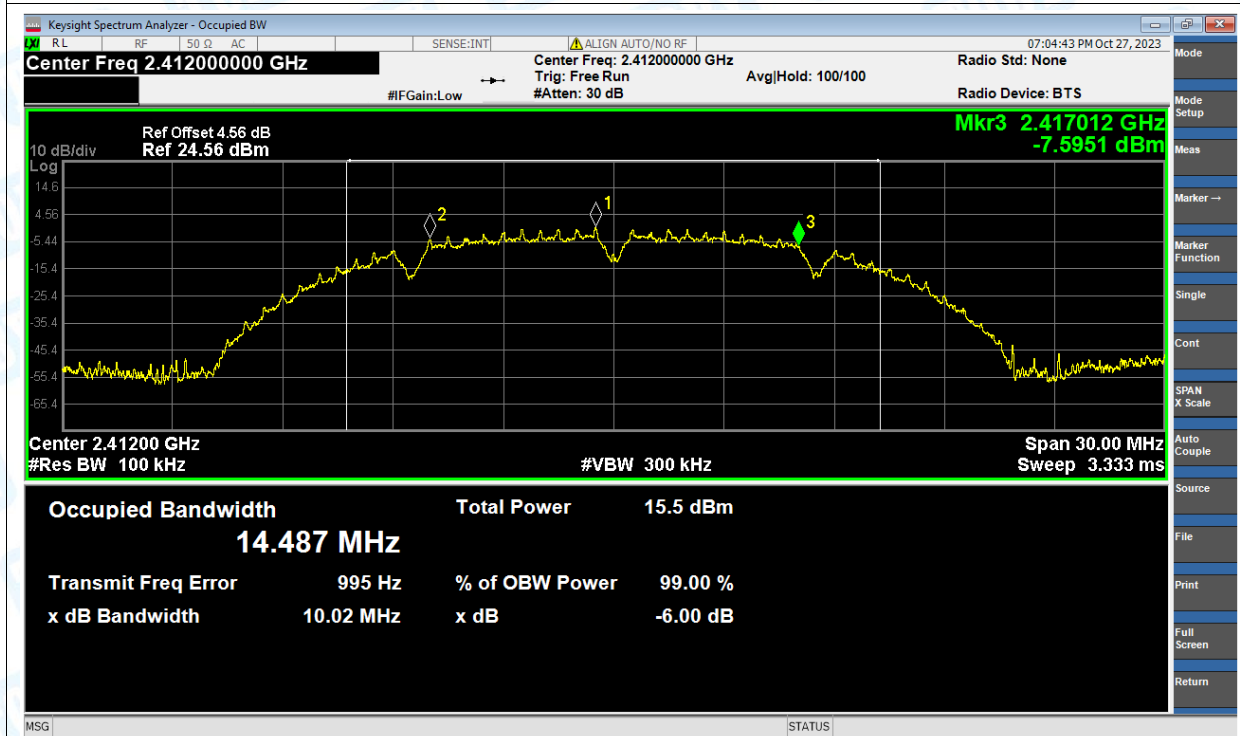
Note: The Duty Cycle Factor is compensated in the graph.

-6dB Bandwidth

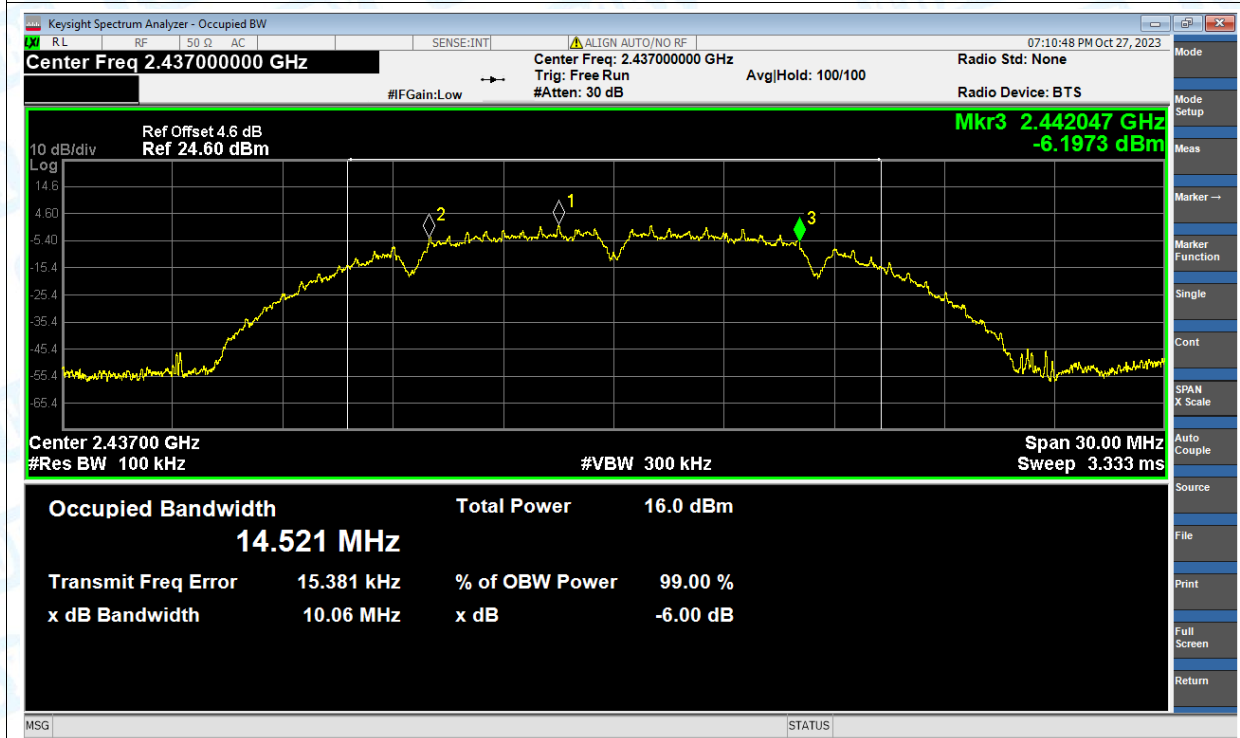
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.02	0.5	Pass
NVNT	b	2437	Ant1	10.06	0.5	Pass
NVNT	b	2462	Ant1	10.11	0.5	Pass
NVNT	b	2412	Ant2	10.04	0.5	Pass
NVNT	b	2437	Ant2	10.06	0.5	Pass
NVNT	b	2462	Ant2	10.09	0.5	Pass
NVNT	g	2412	Ant1	16.29	0.5	Pass
NVNT	g	2437	Ant1	15.43	0.5	Pass
NVNT	g	2462	Ant1	15.53	0.5	Pass
NVNT	g	2412	Ant2	15.29	0.5	Pass
NVNT	g	2437	Ant2	15.27	0.5	Pass
NVNT	g	2462	Ant2	15.92	0.5	Pass
NVNT	n(HT20)	2412	Ant1	15.71	0.5	Pass
NVNT	n(HT20)	2412	Ant2	15.51	0.5	Pass
NVNT	n(HT20)	2437	Ant1	16.27	0.5	Pass
NVNT	n(HT20)	2437	Ant2	15.92	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.41	0.5	Pass
NVNT	n(HT20)	2462	Ant2	16.78	0.5	Pass
NVNT	n(HT40)	2422	Ant1	33.85	0.5	Pass
NVNT	n(HT40)	2422	Ant2	35.11	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.1	0.5	Pass
NVNT	n(HT40)	2437	Ant2	35.09	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.1	0.5	Pass
NVNT	n(HT40)	2452	Ant2	35.06	0.5	Pass

Test Graphs

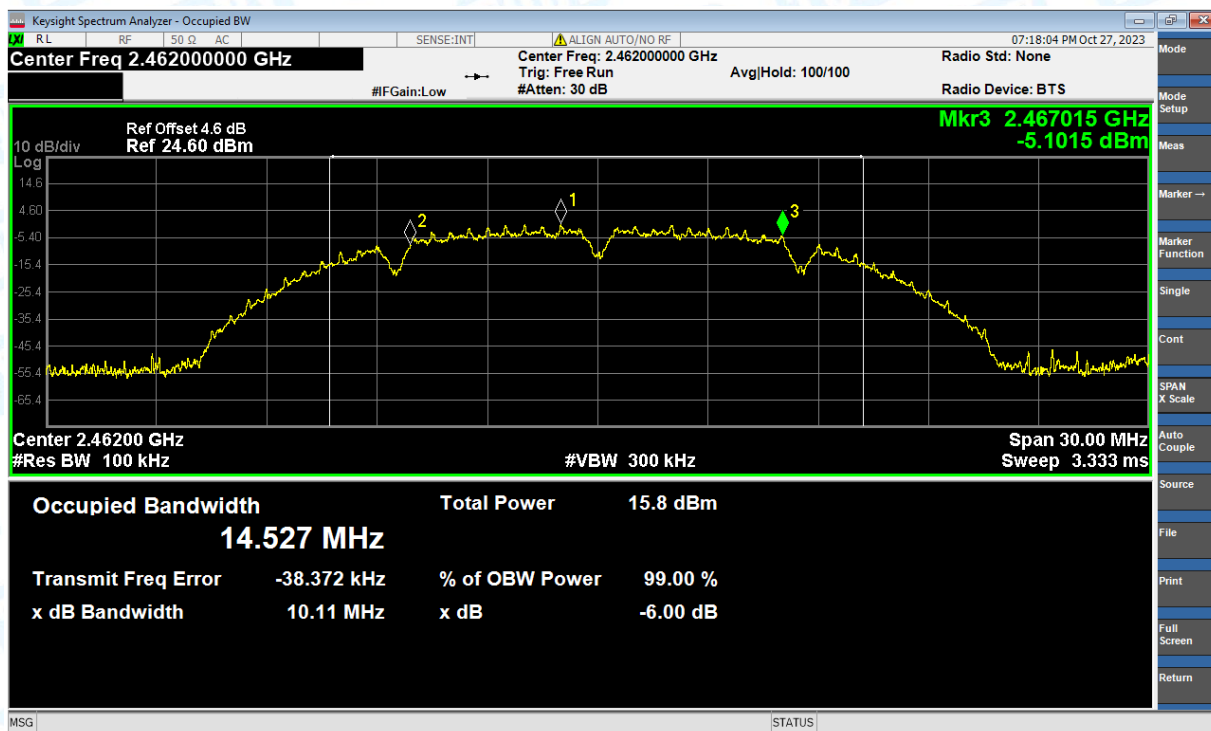
-6dB Bandwidth NVNT b 2412MHz Ant1



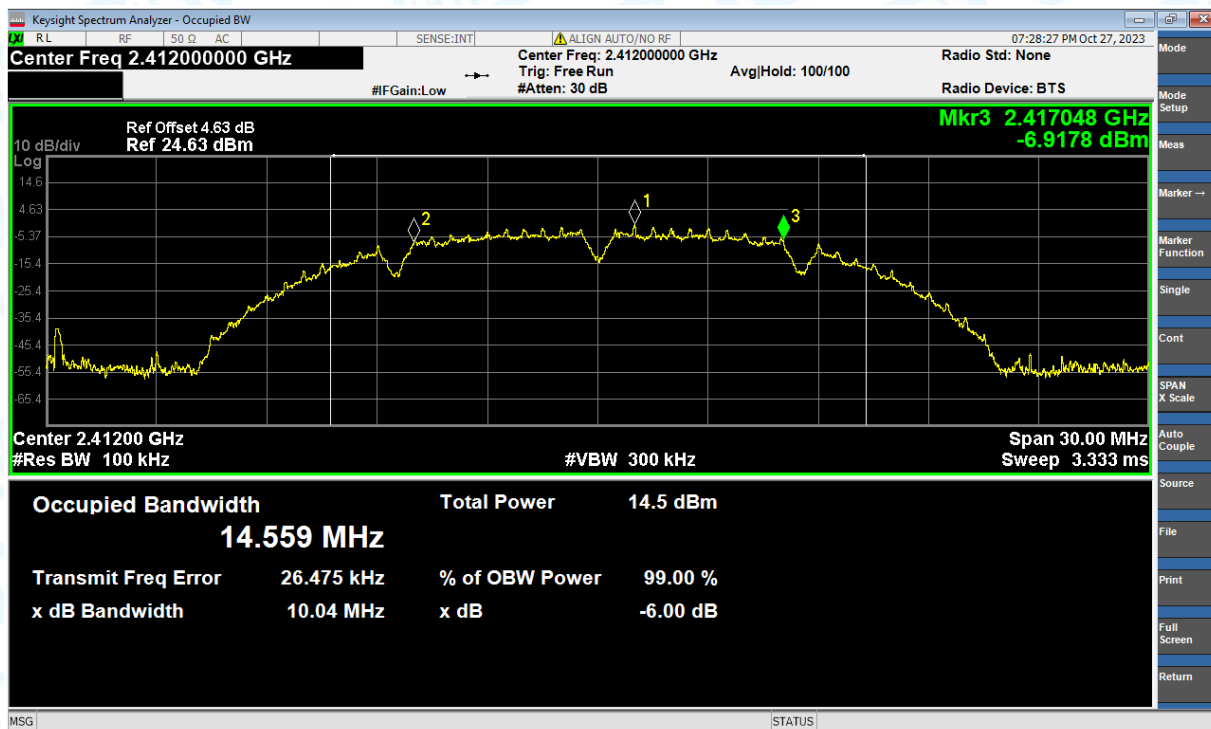
-6dB Bandwidth NVNT b 2437MHz Ant1



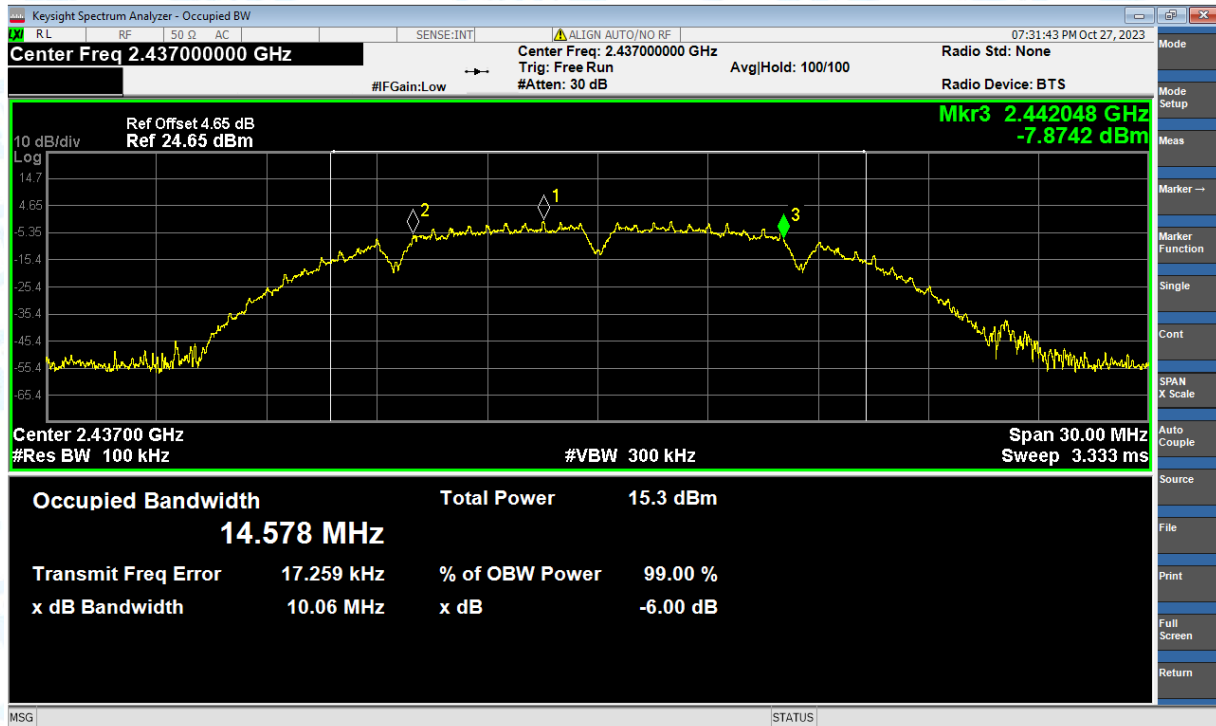
-6dB Bandwidth NVNT b 2462MHz Ant1



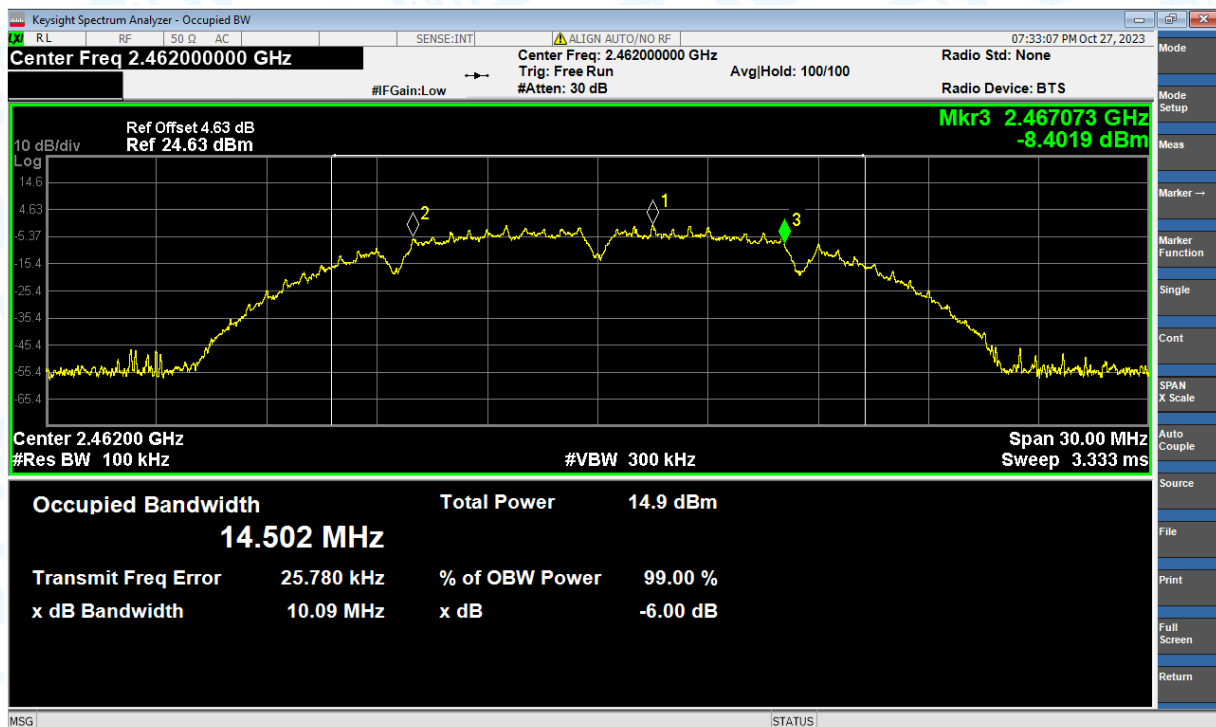
-6dB Bandwidth NVNT b 2412MHz Ant2



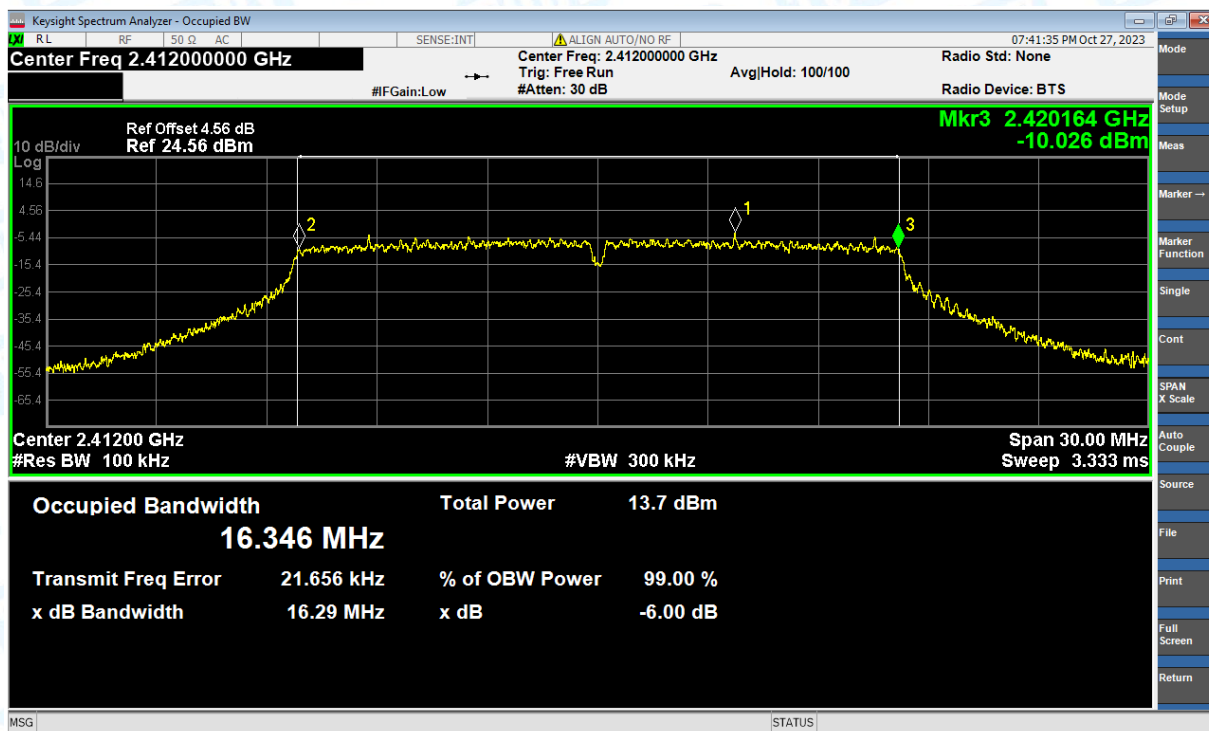
-6dB Bandwidth NVNT b 2437MHz Ant2



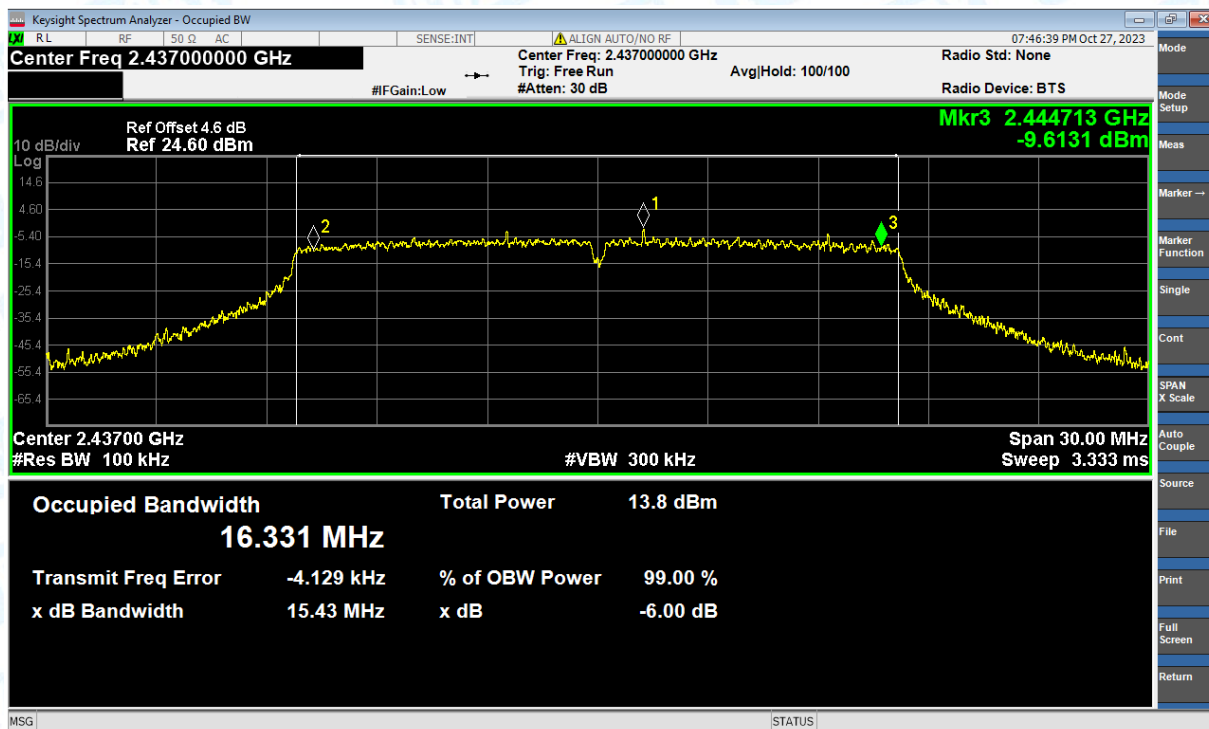
-6dB Bandwidth NVNT b 2462MHz Ant2



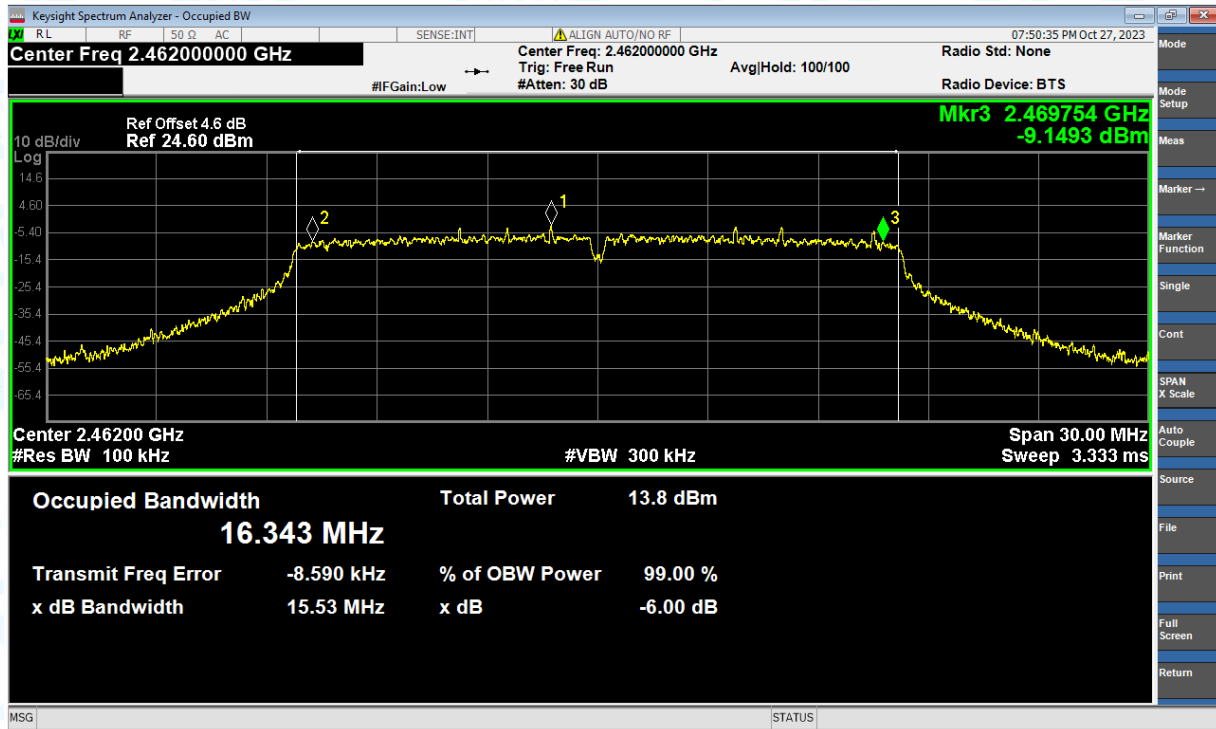
-6dB Bandwidth NVNT g 2412MHz Ant1



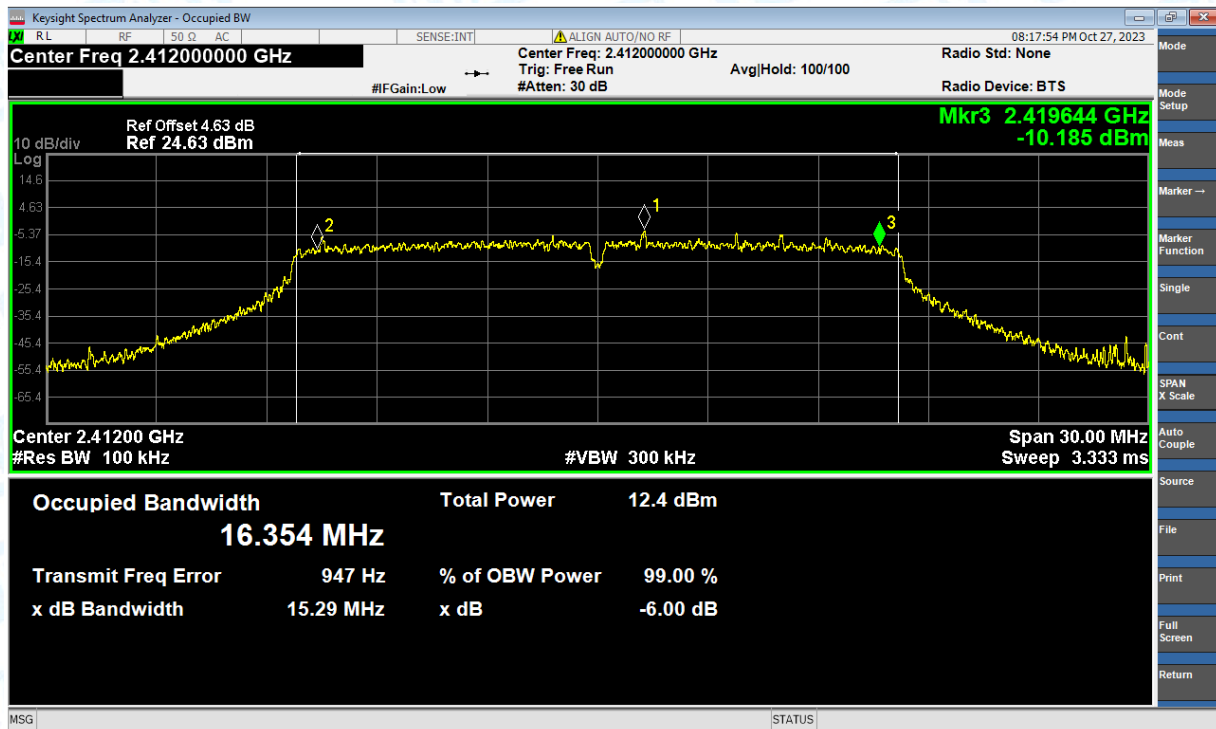
-6dB Bandwidth NVNT g 2437MHz Ant1



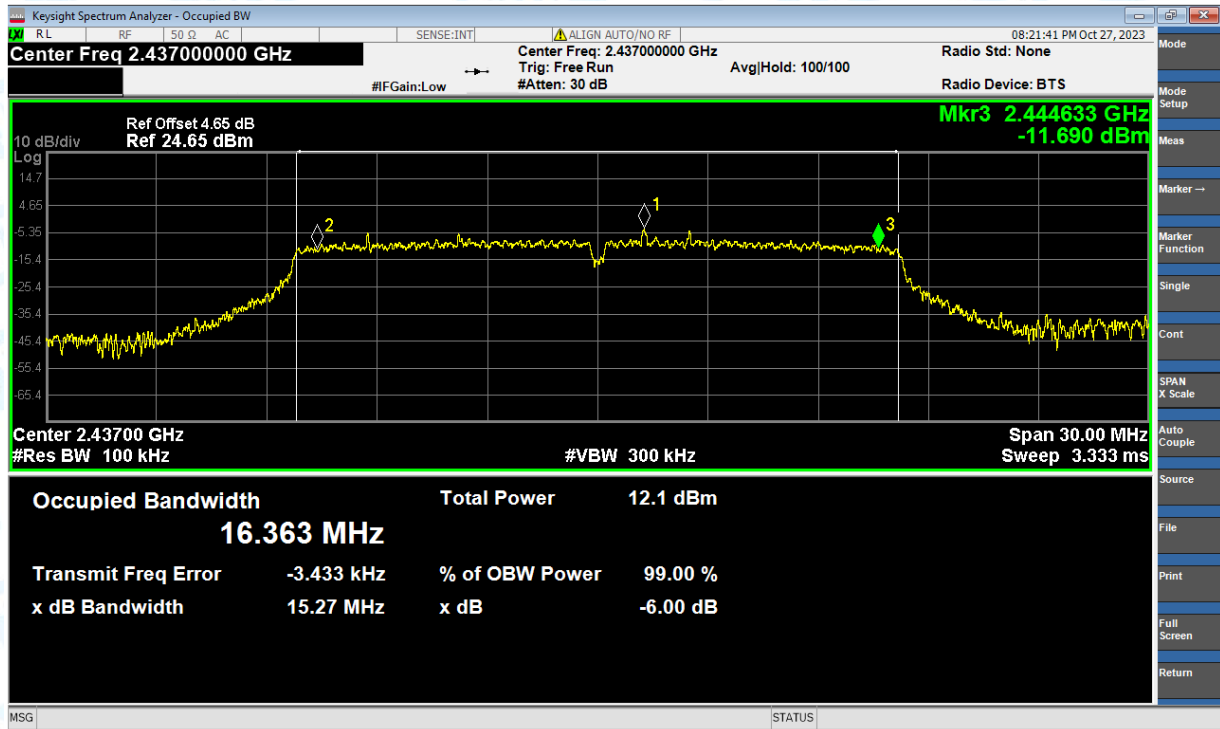
-6dB Bandwidth NVNT g 2462MHz Ant1



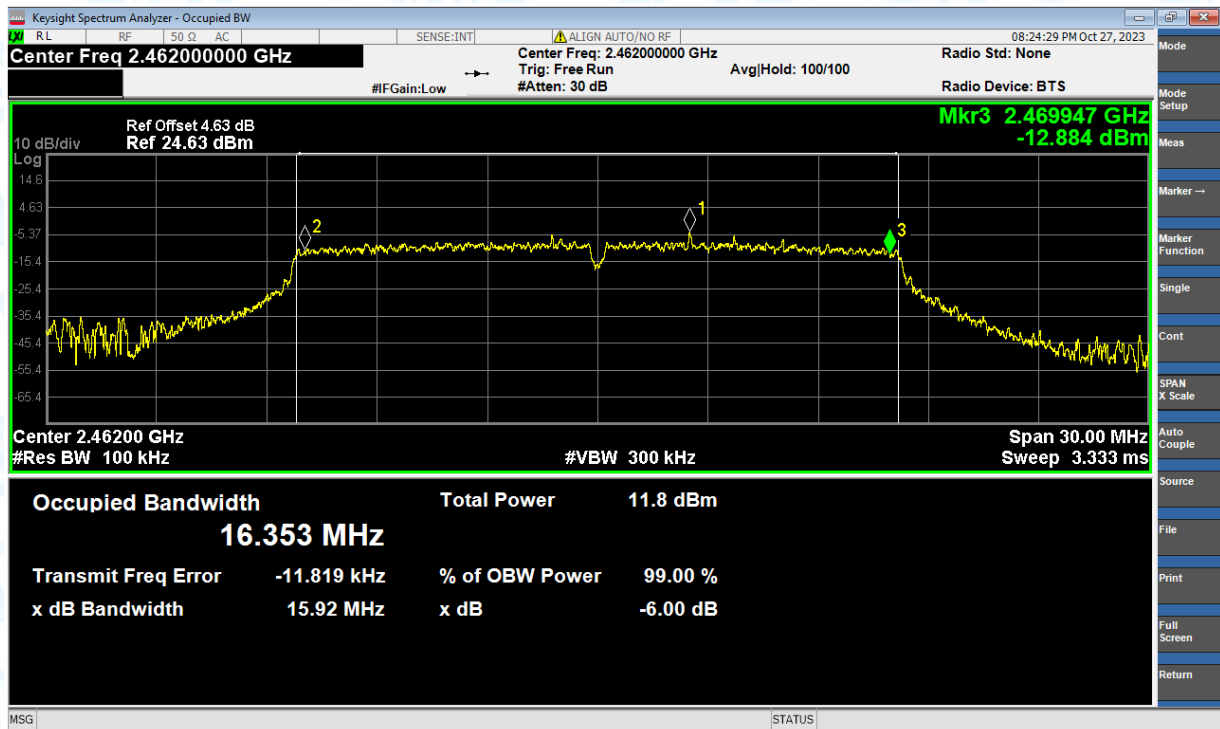
-6dB Bandwidth NVNT g 2412MHz Ant2



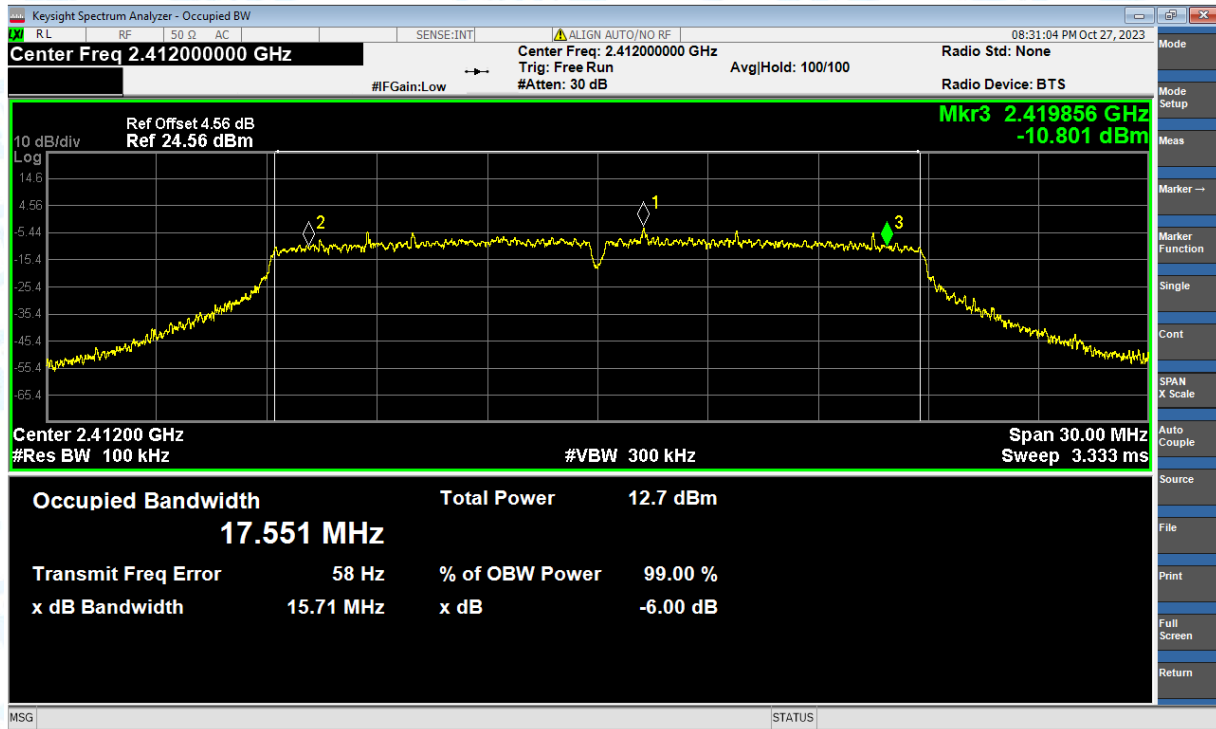
-6dB Bandwidth NVNT g 2437MHz Ant2



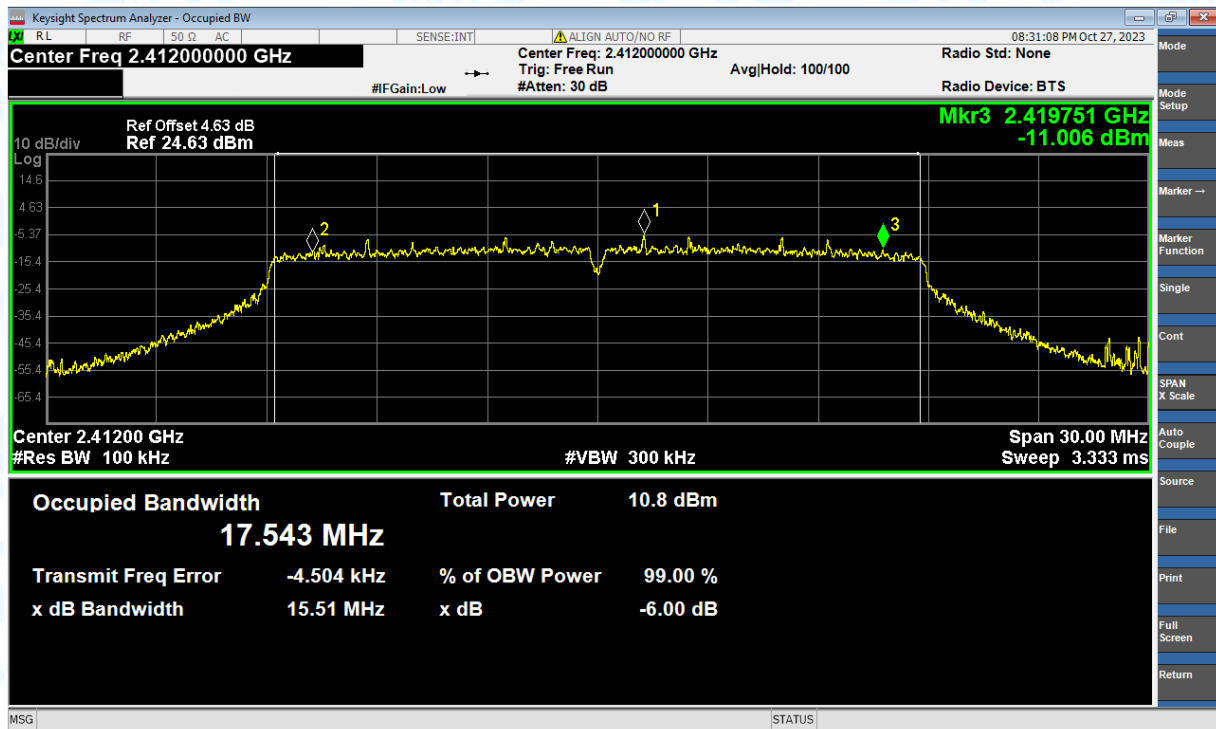
-6dB Bandwidth NVNT g 2462MHz Ant2



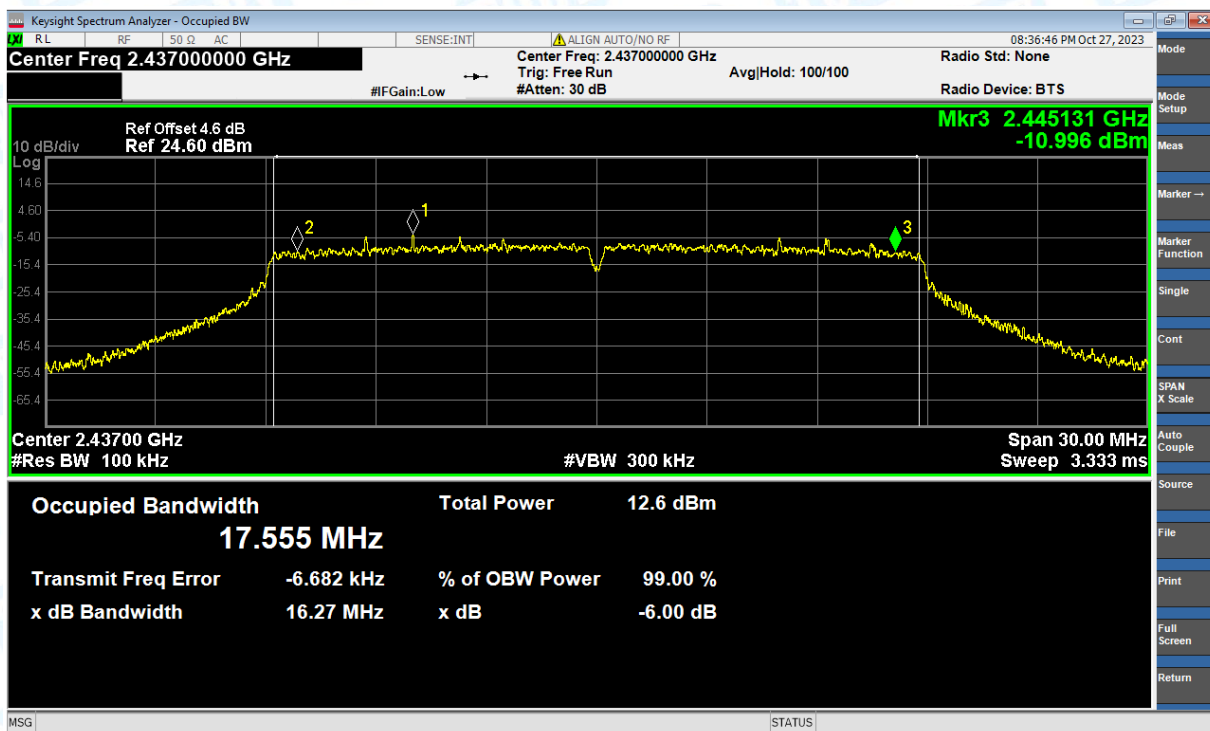
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



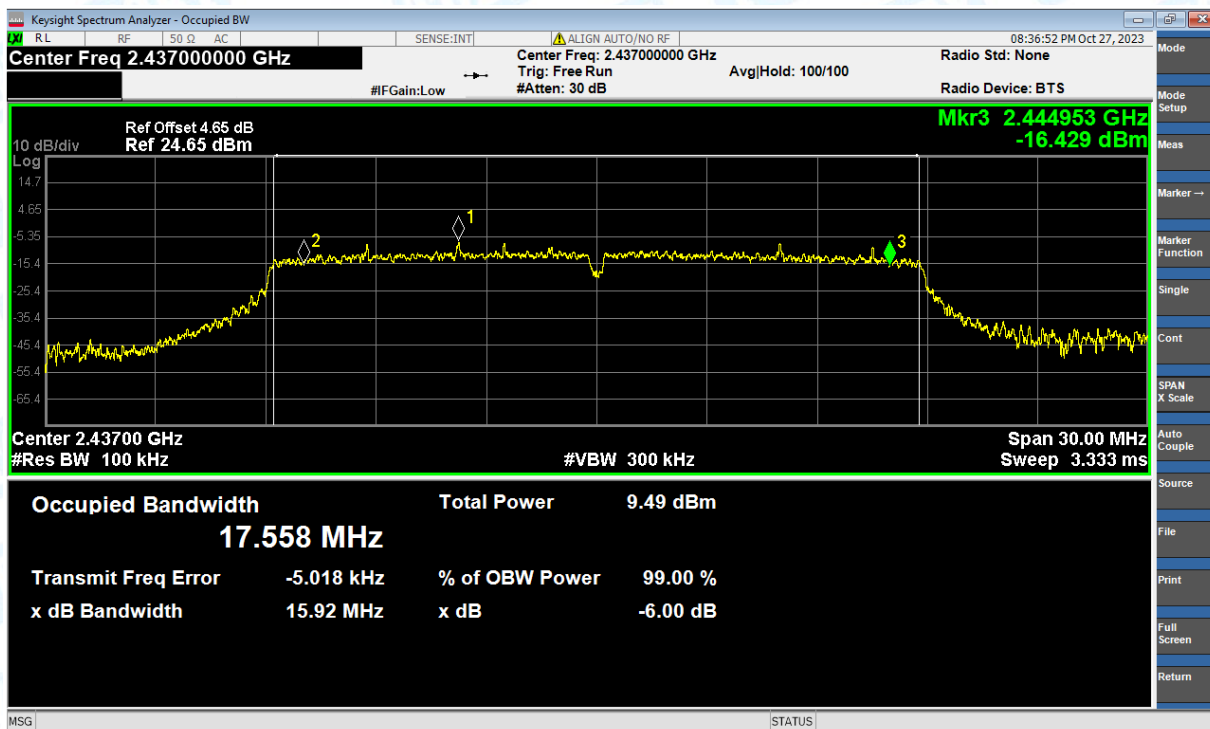
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant2



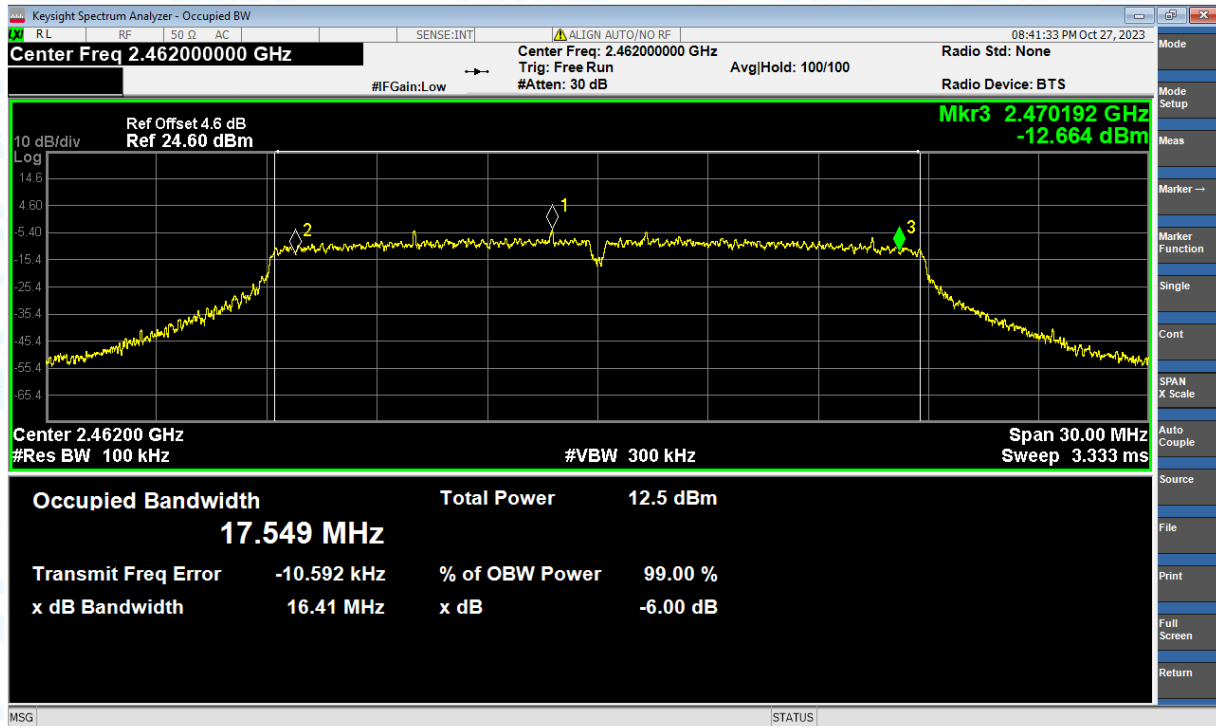
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



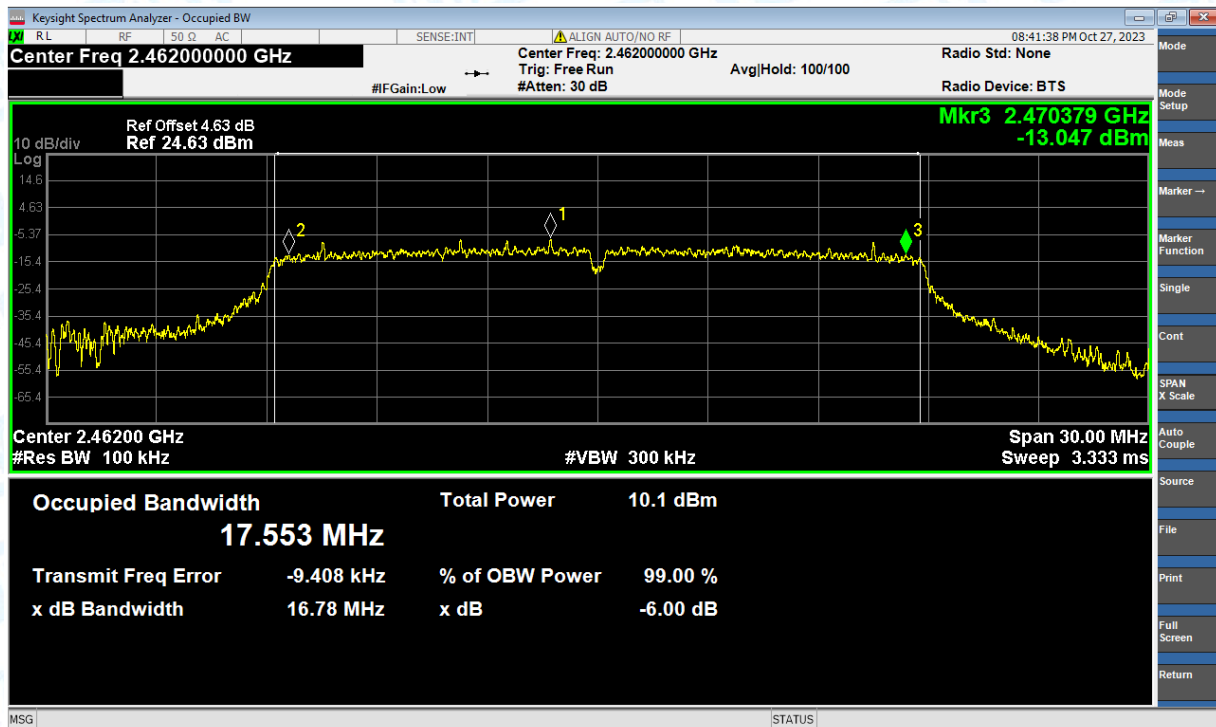
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant2



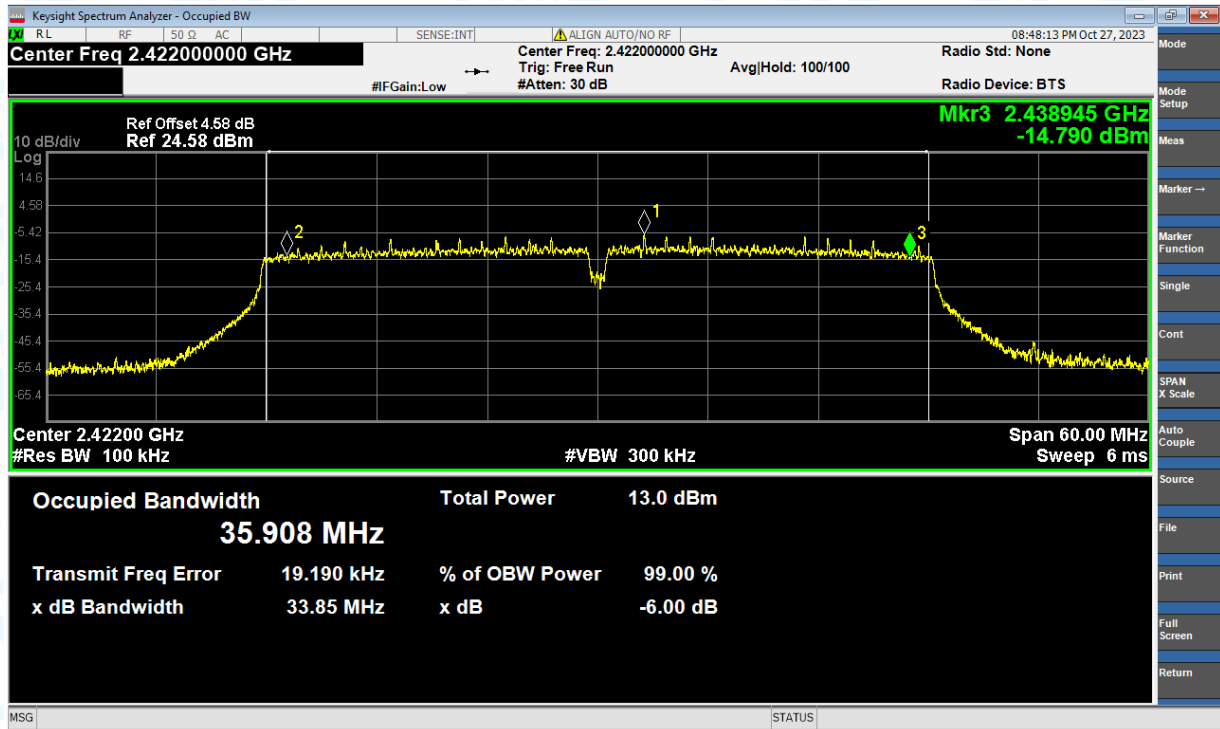
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



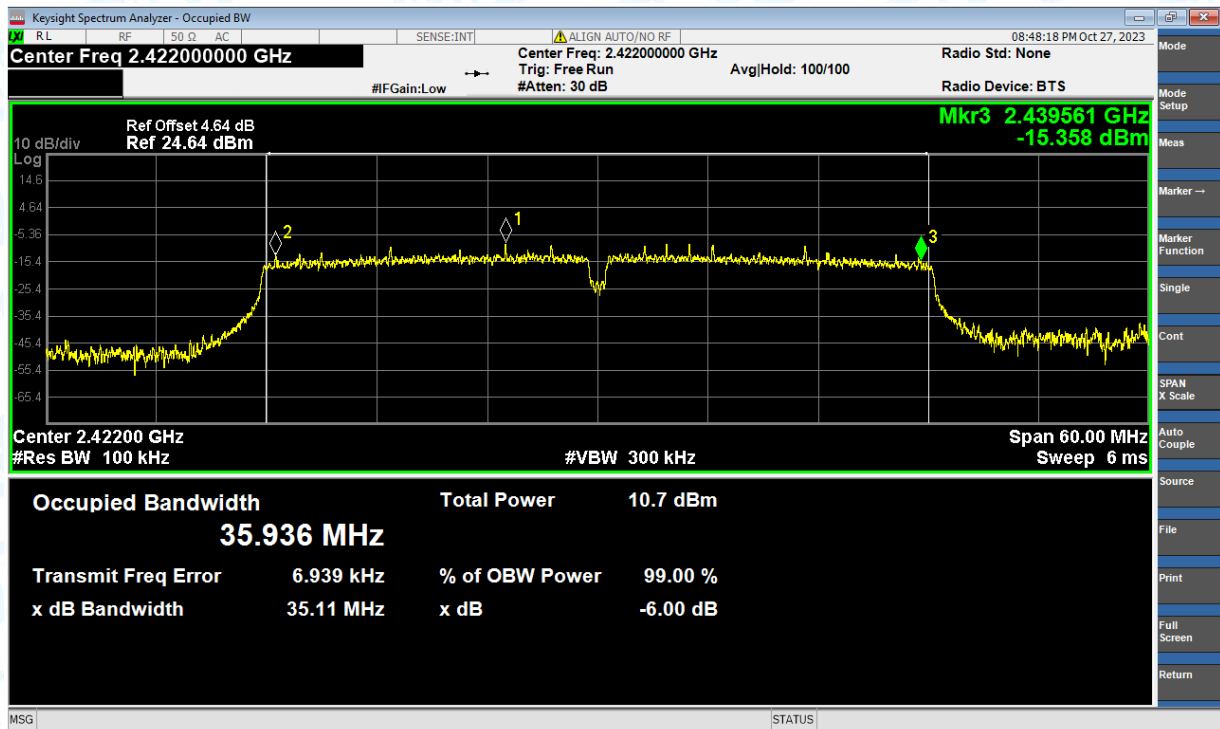
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant2



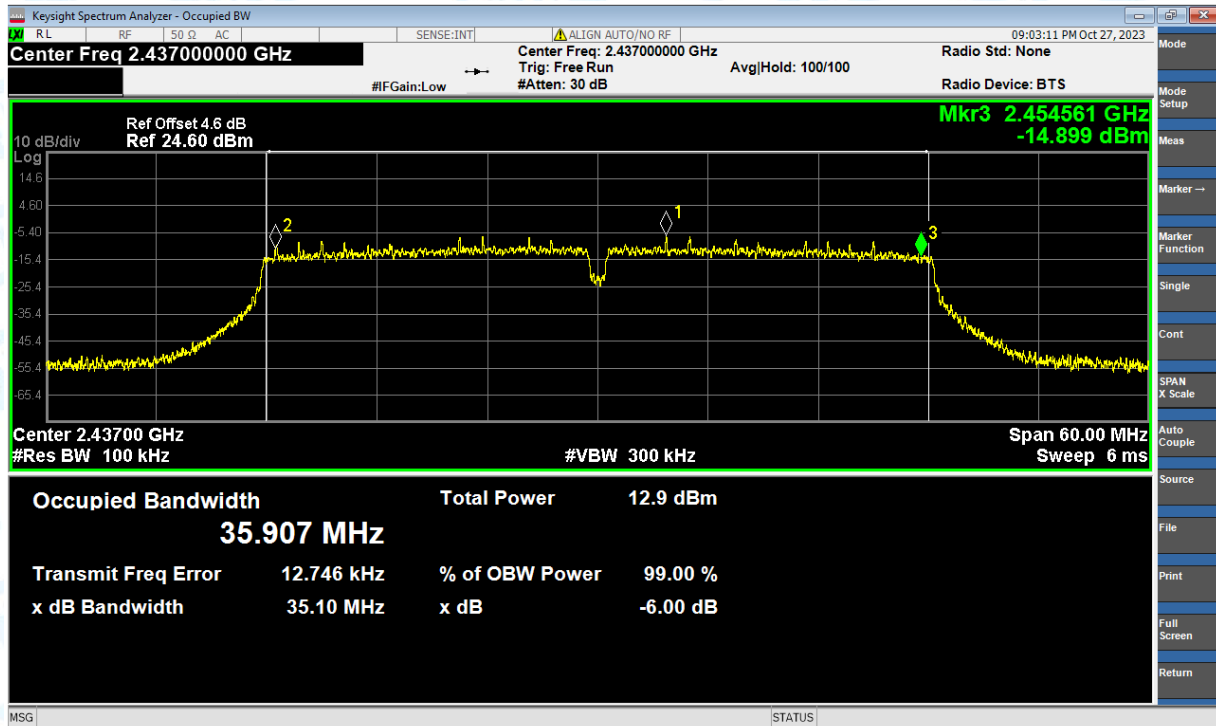
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



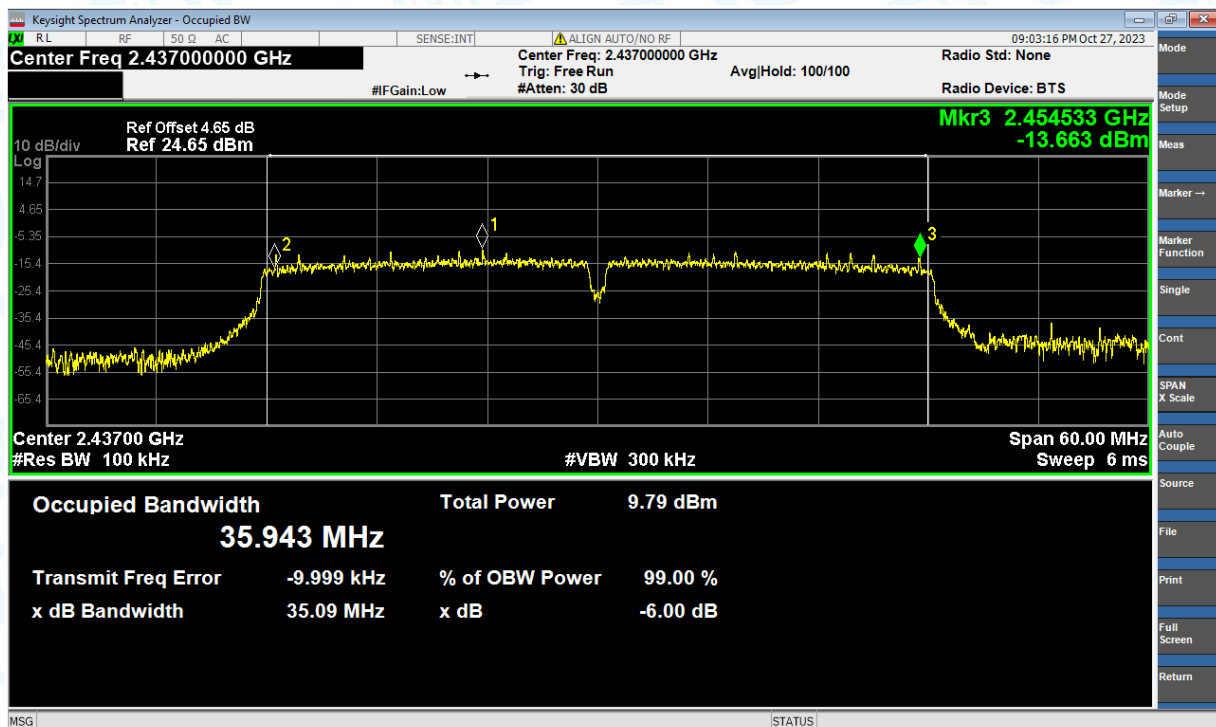
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant2



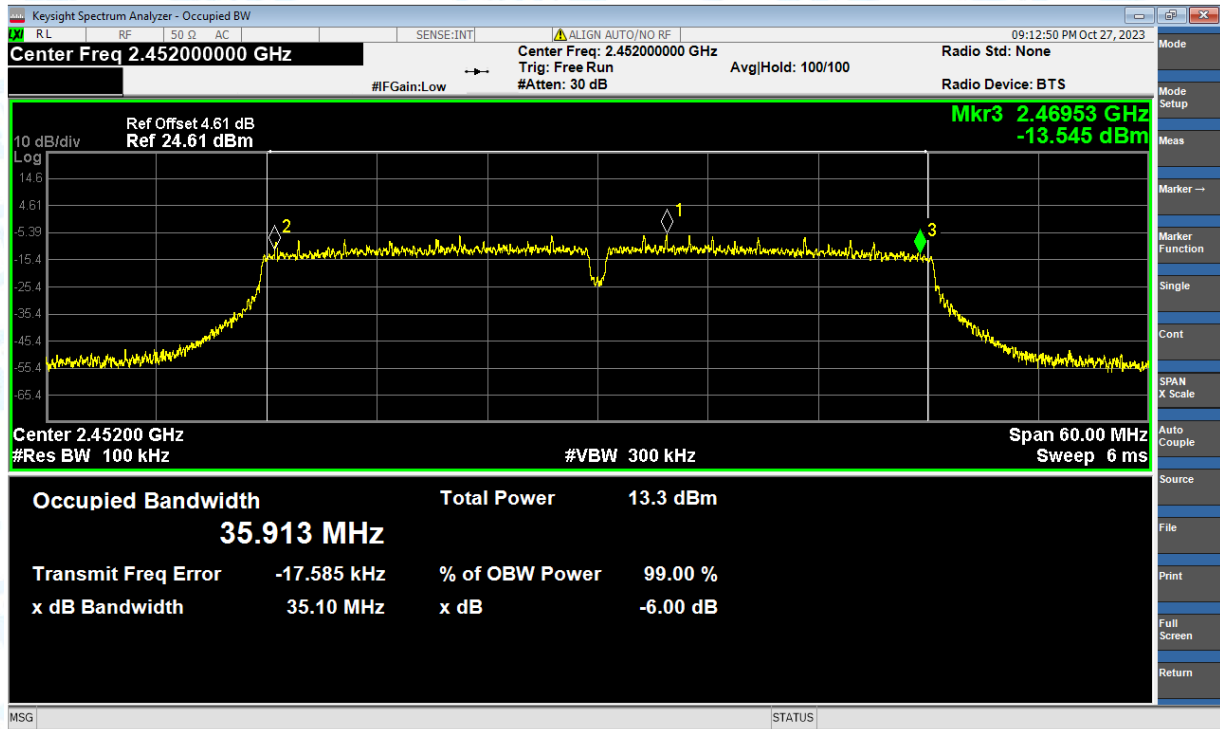
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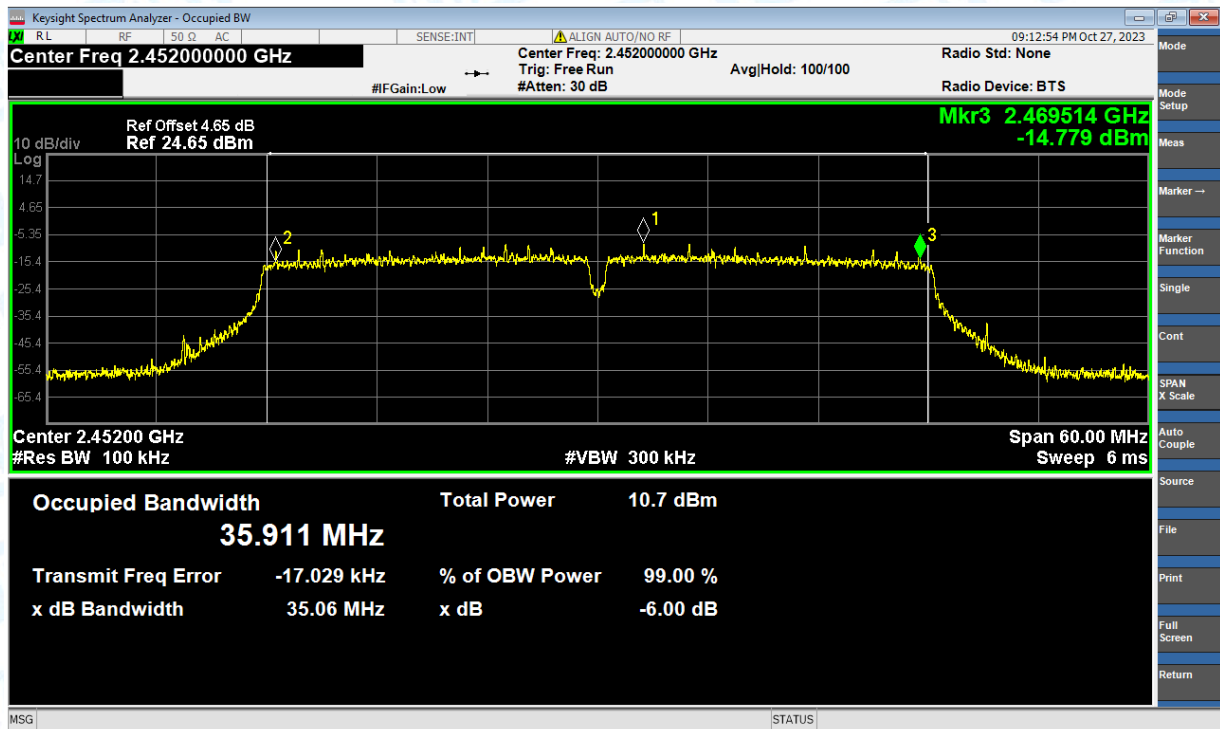
-6dB Bandwidth NVNT n(HT40) 2437MHz Ant2



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



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

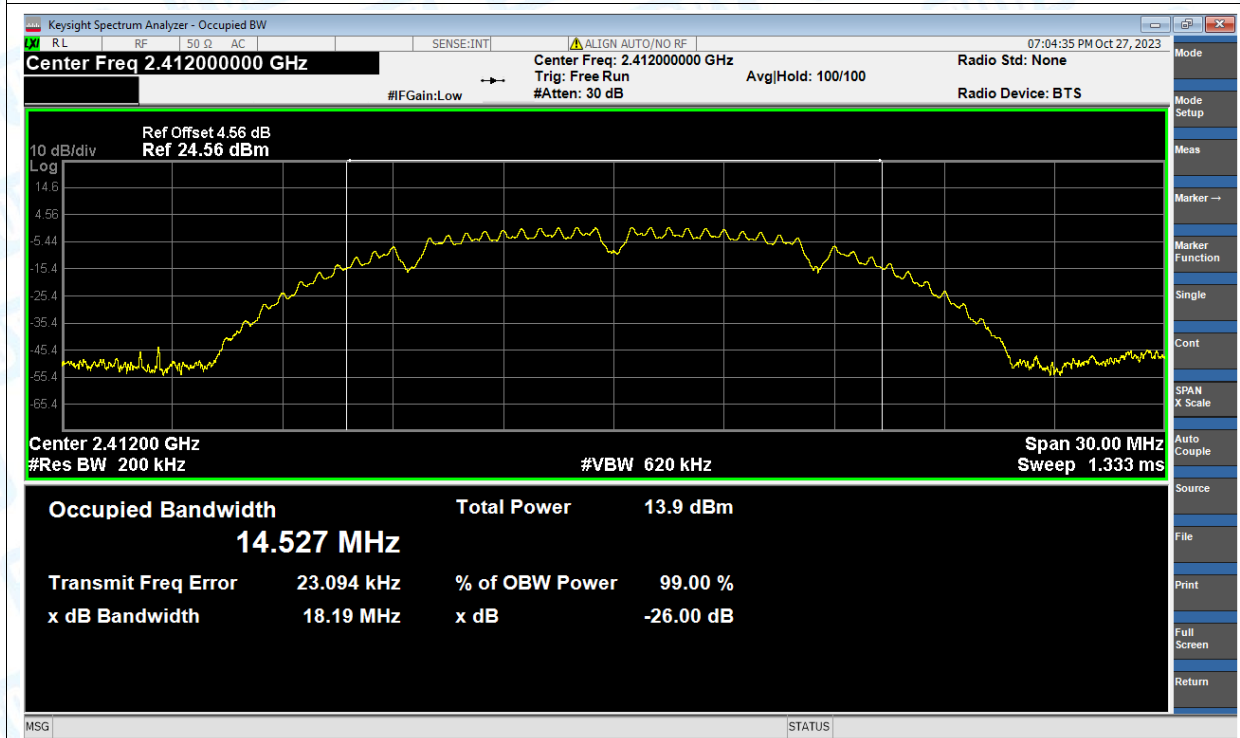


Occupied Channel Bandwidth

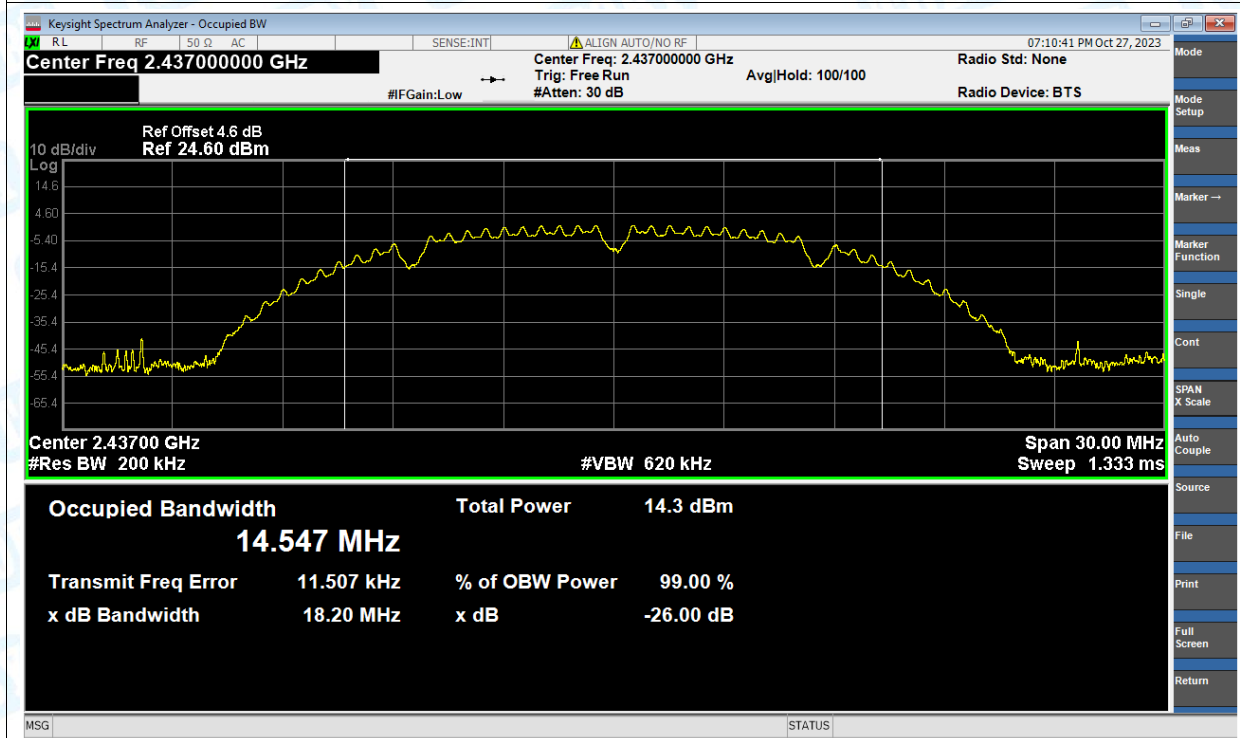
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.527
NVNT	b	2437	Ant1	14.547
NVNT	b	2462	Ant1	14.54
NVNT	b	2412	Ant2	14.532
NVNT	b	2437	Ant2	14.522
NVNT	b	2462	Ant2	14.512
NVNT	g	2412	Ant1	16.419
NVNT	g	2437	Ant1	16.377
NVNT	g	2462	Ant1	16.367
NVNT	g	2412	Ant2	16.395
NVNT	g	2437	Ant2	16.435
NVNT	g	2462	Ant2	16.415
NVNT	n(HT20)	2412	Ant1	17.585
NVNT	n(HT20)	2412	Ant2	17.583
NVNT	n(HT20)	2437	Ant1	17.569
NVNT	n(HT20)	2437	Ant2	17.559
NVNT	n(HT20)	2462	Ant1	17.57
NVNT	n(HT20)	2462	Ant2	17.59
NVNT	n(HT40)	2422	Ant1	36.008
NVNT	n(HT40)	2422	Ant2	36.024
NVNT	n(HT40)	2437	Ant1	36.029
NVNT	n(HT40)	2437	Ant2	36.099
NVNT	n(HT40)	2452	Ant1	36.025
NVNT	n(HT40)	2452	Ant2	36.012

Test Graphs

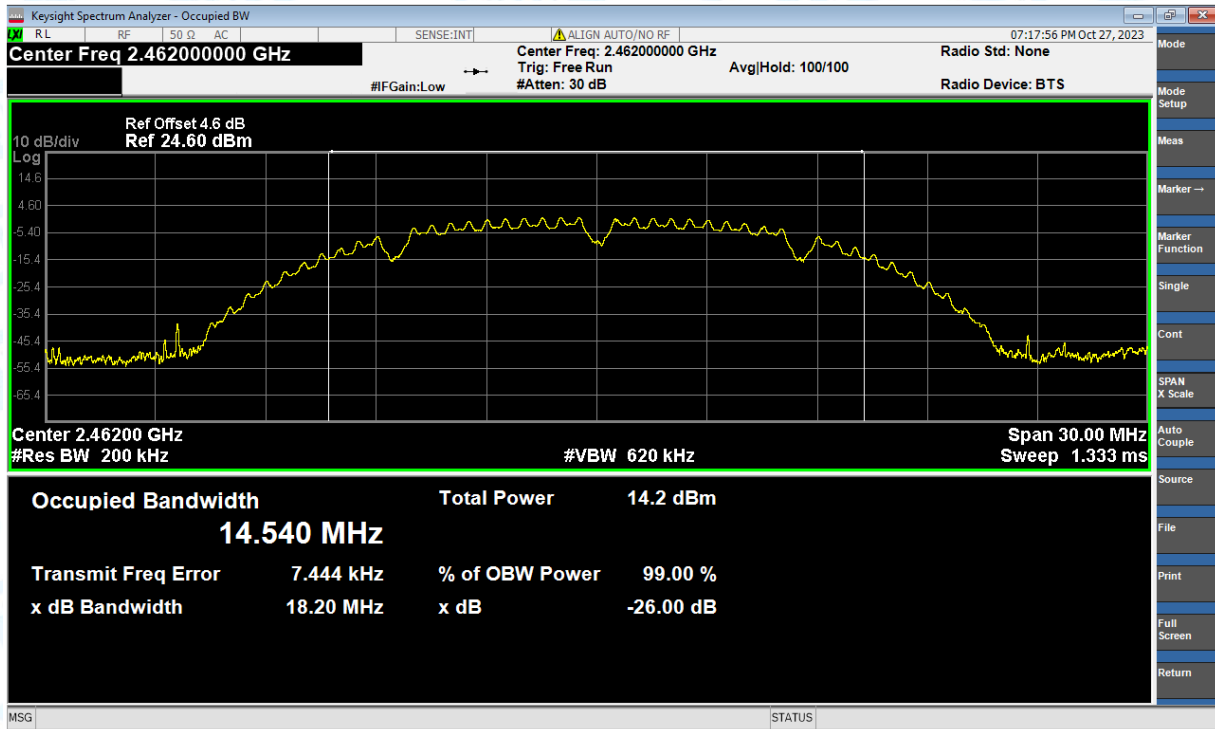
OBW NVNT b 2412MHz Ant1



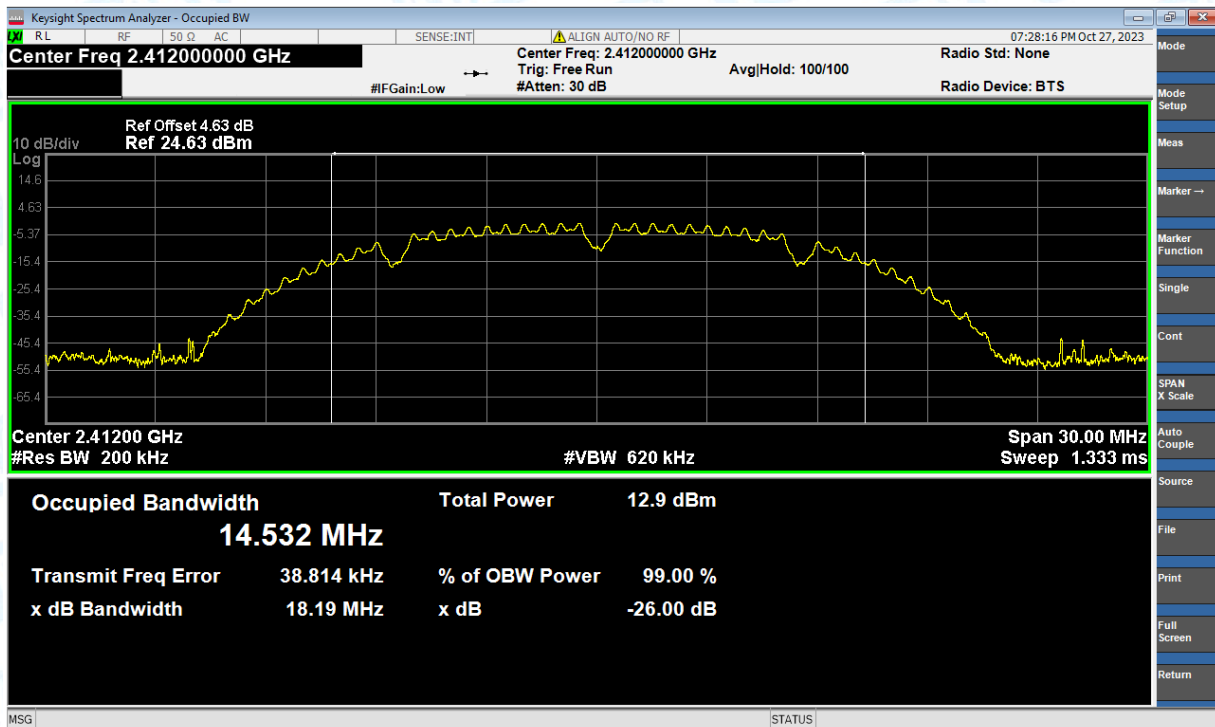
OBW NVNT b 2437MHz Ant1



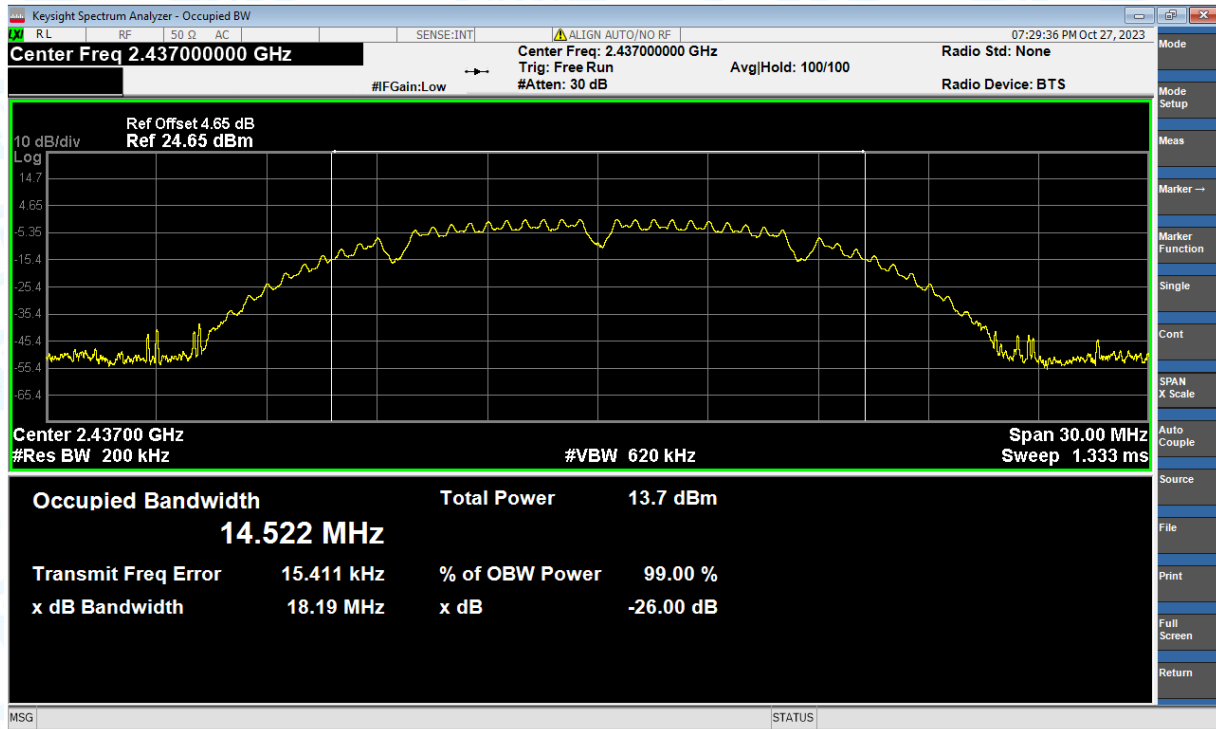
OBW NVNT b 2462MHz Ant1



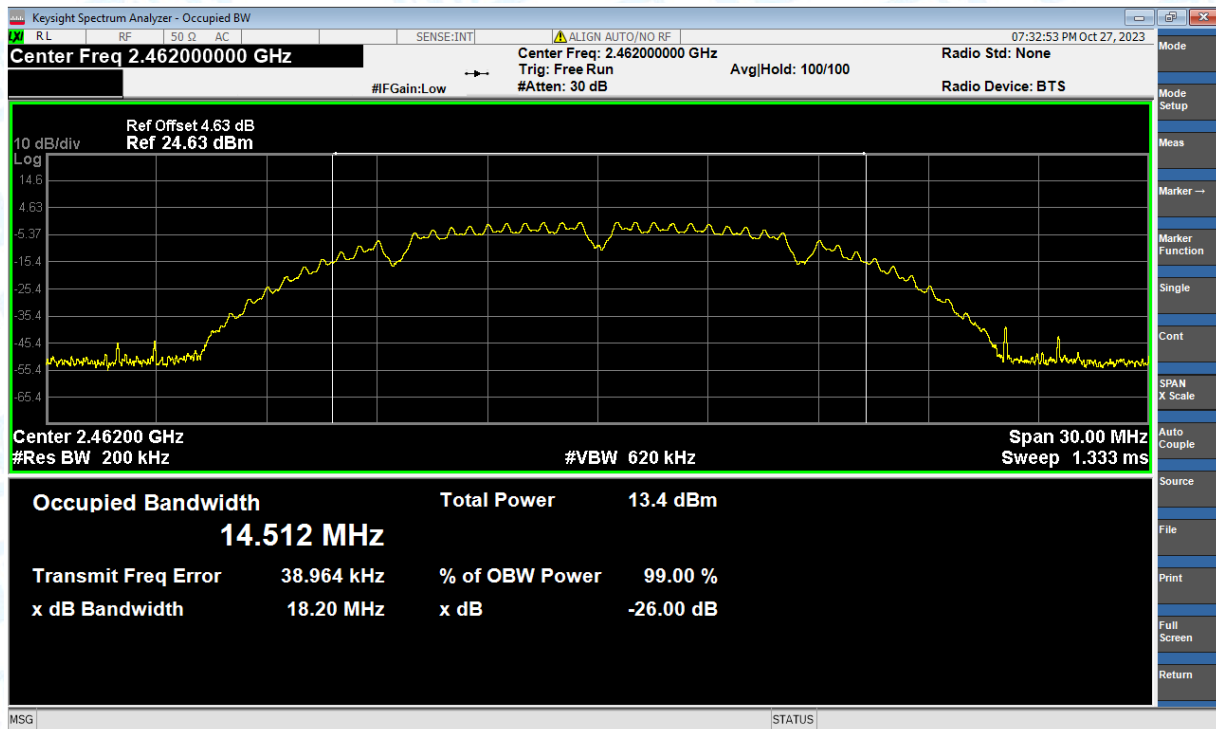
OBW NVNT b 2412MHz Ant2



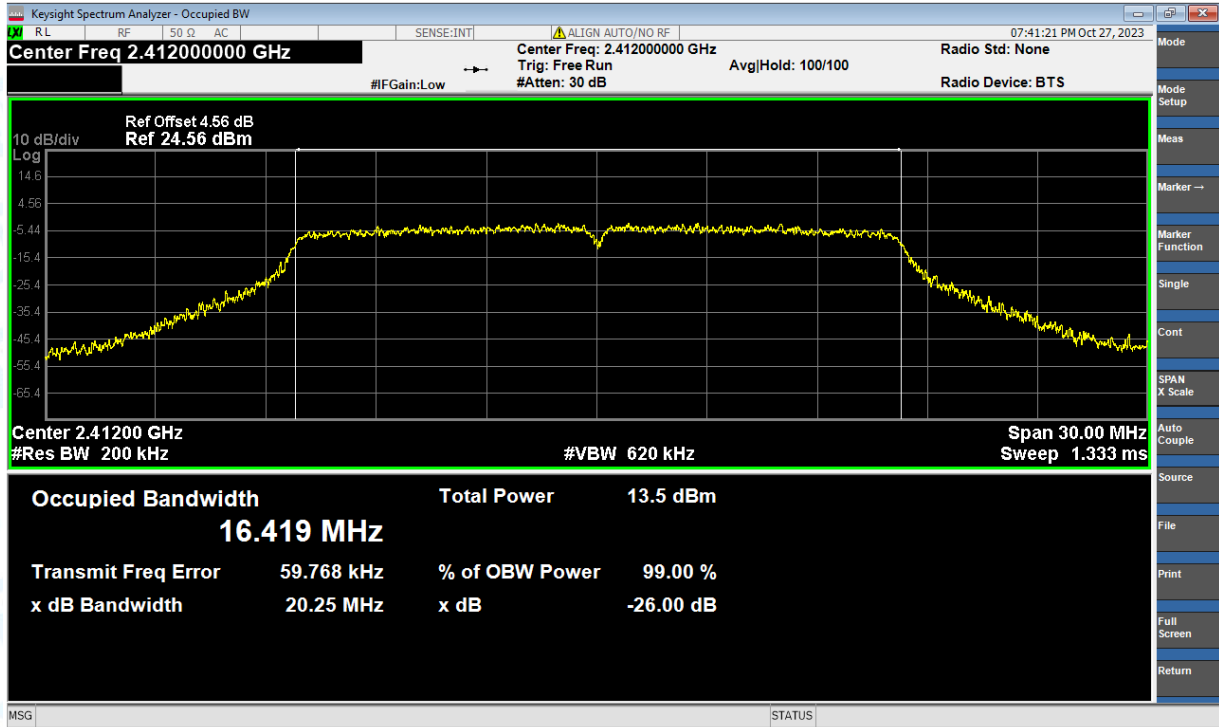
OBW NVNT b 2437MHz Ant2



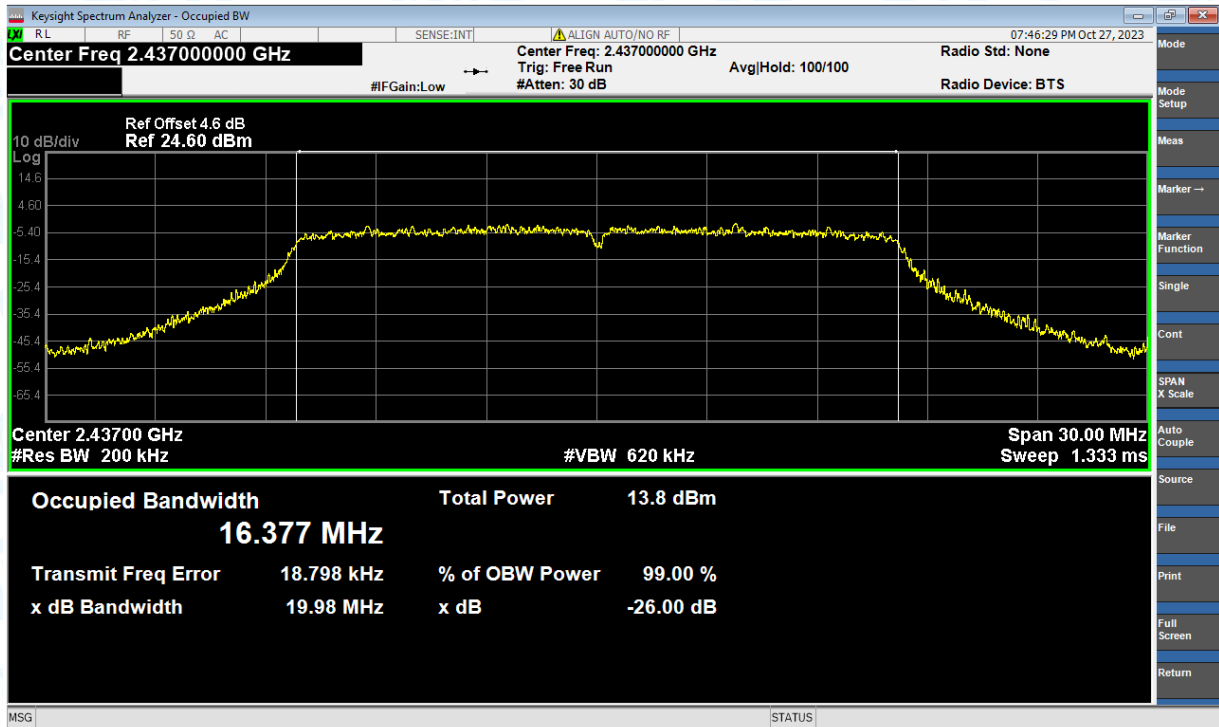
OBW NVNT b 2462MHz Ant2



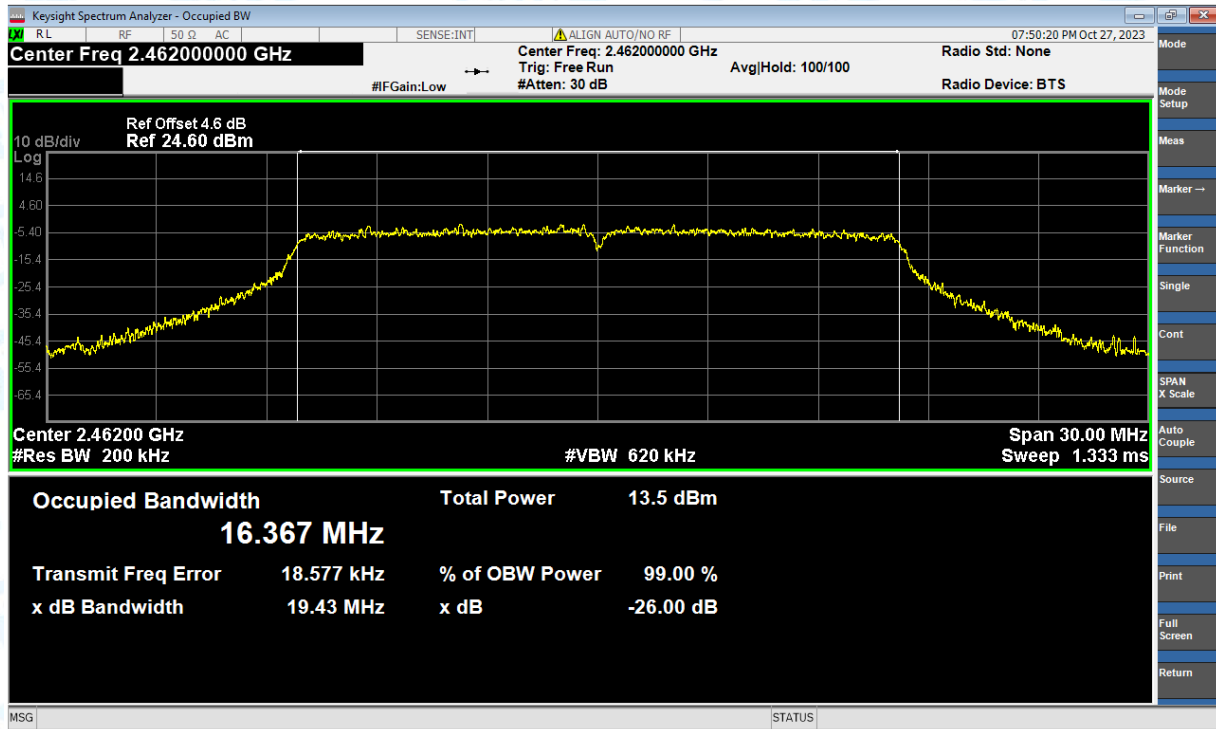
OBW NVNT g 2412MHz Ant1



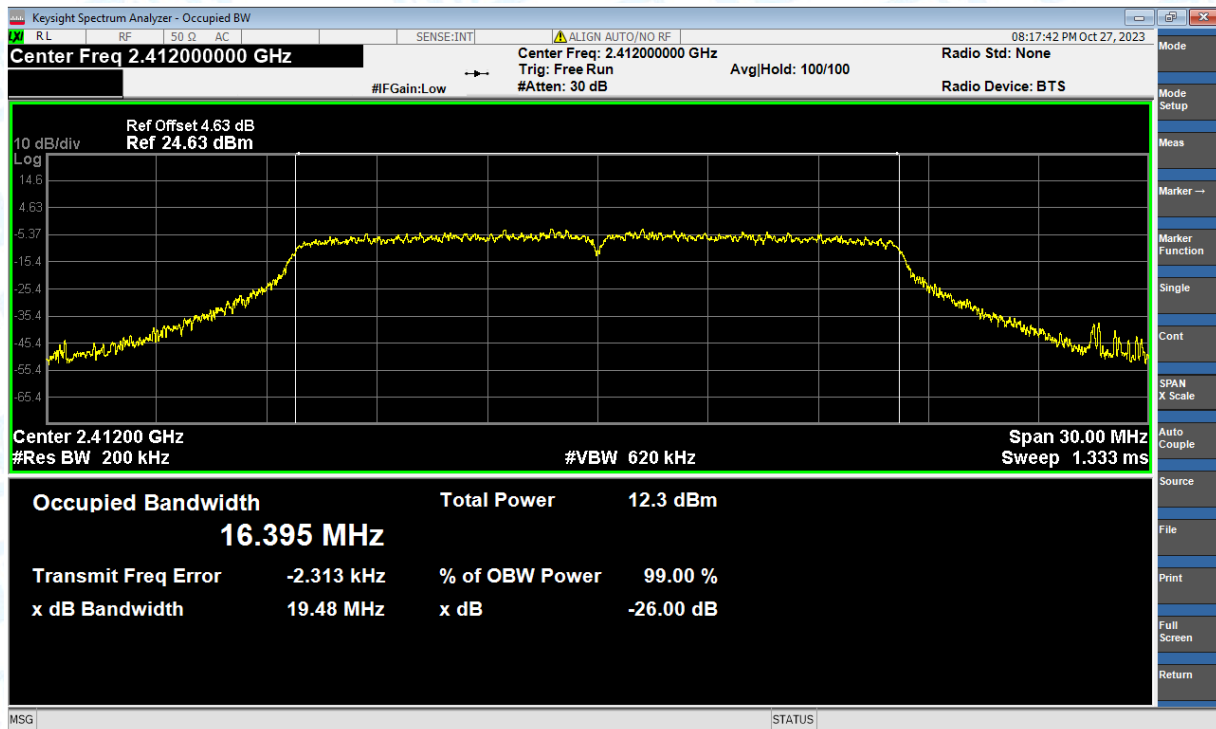
OBW NVNT g 2437MHz Ant1



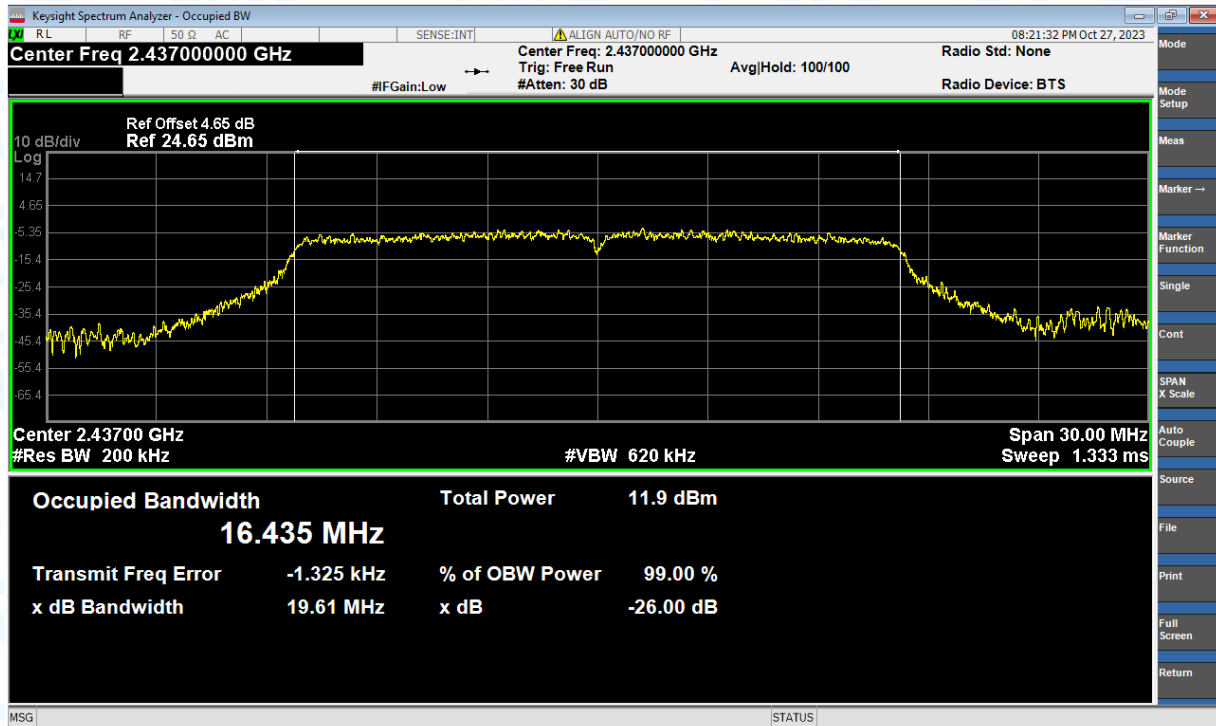
OBW NVNT g 2462MHz Ant1



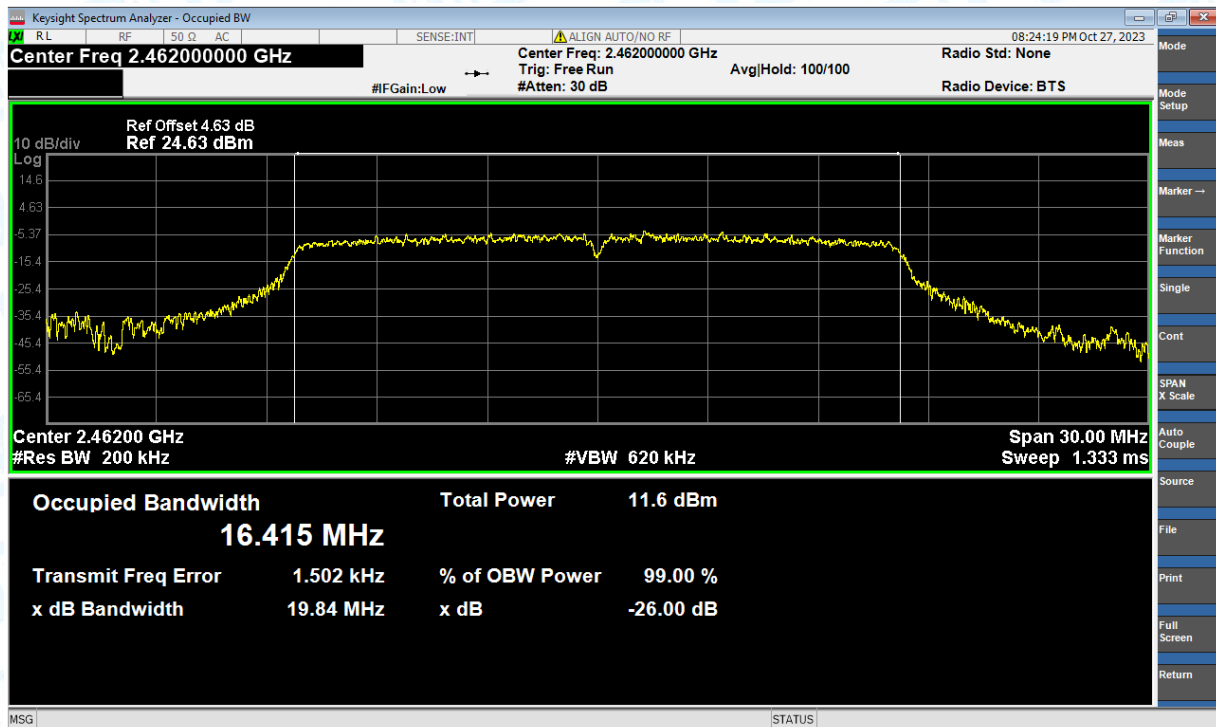
OBW NVNT g 2412MHz Ant2



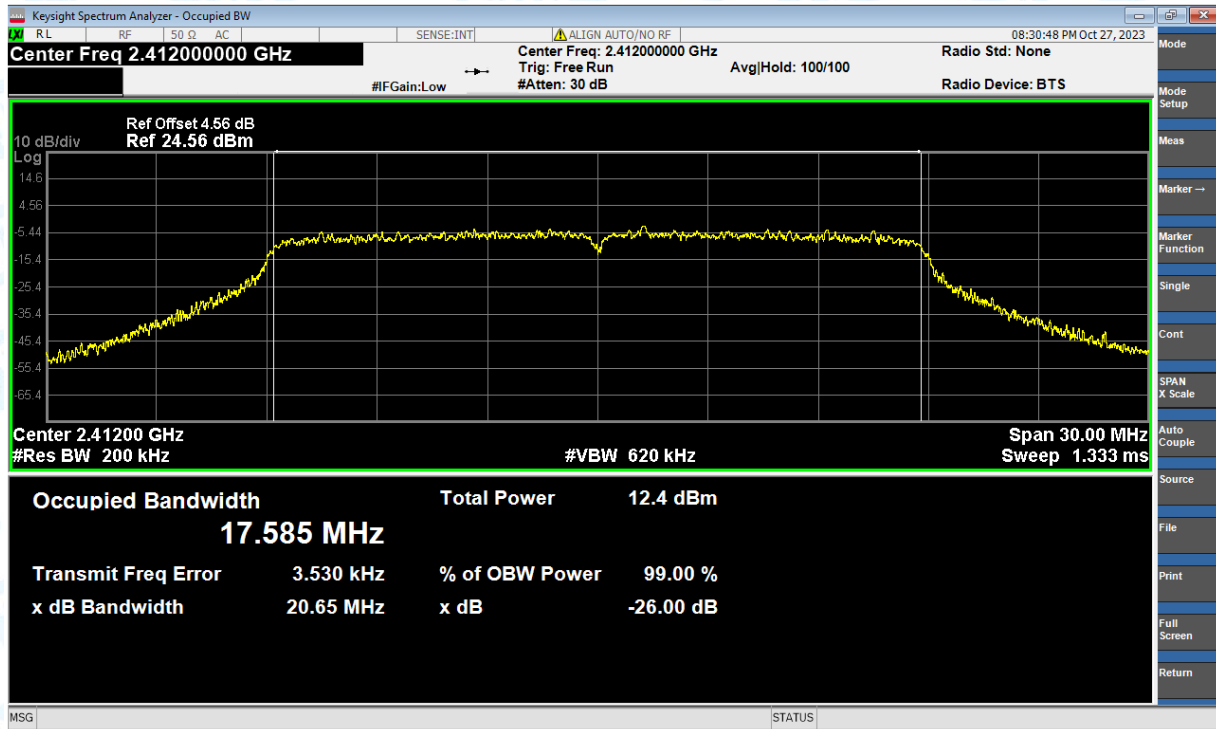
OBW NVNT g 2437MHz Ant2



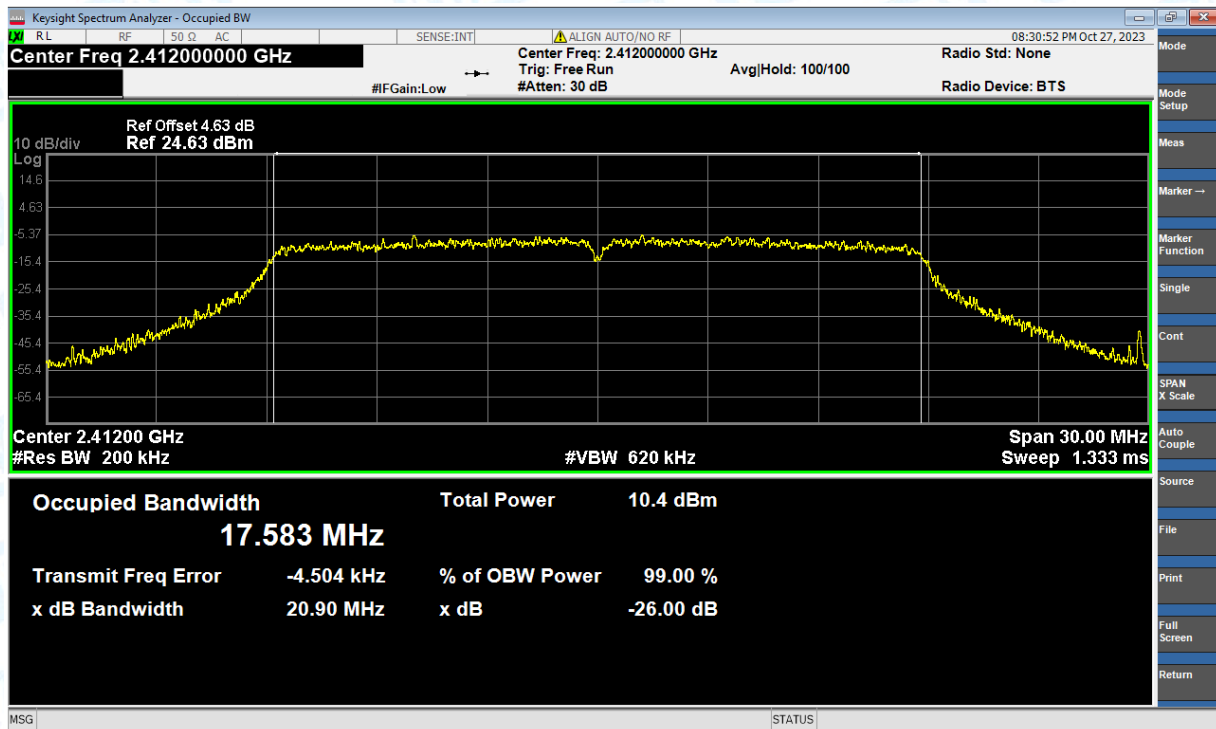
OBW NVNT g 2462MHz Ant2



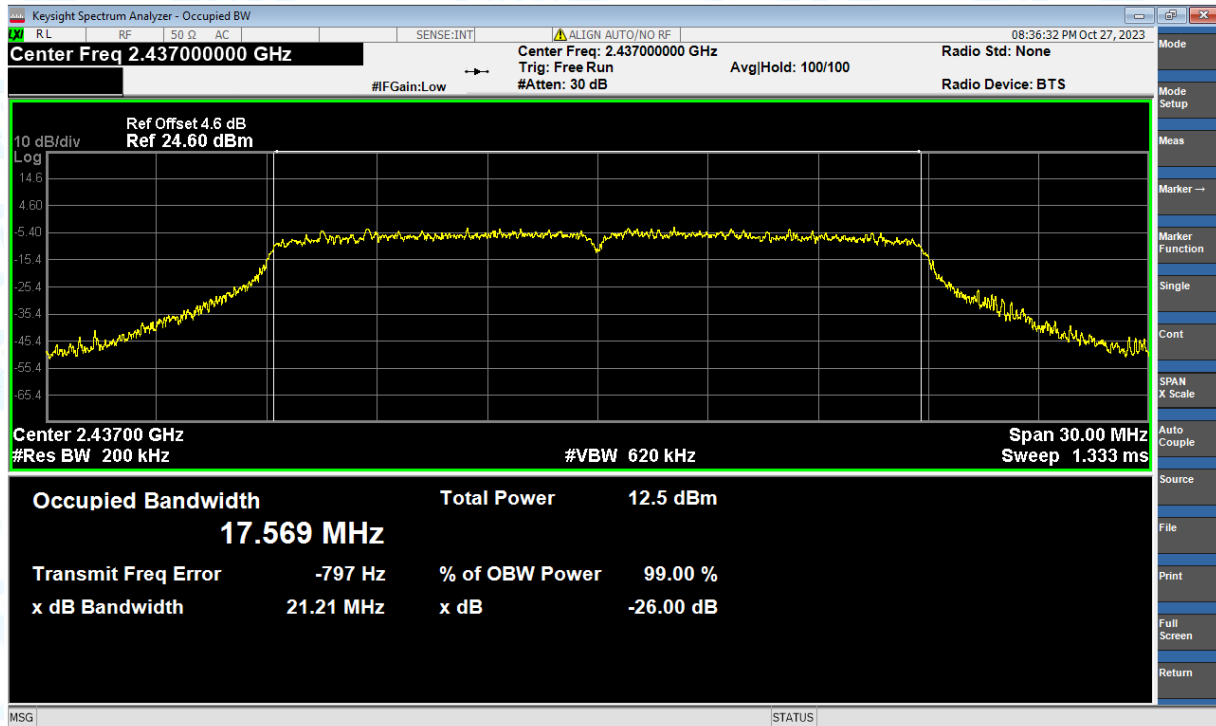
OBW NVNT n(HT20) 2412MHz Ant1



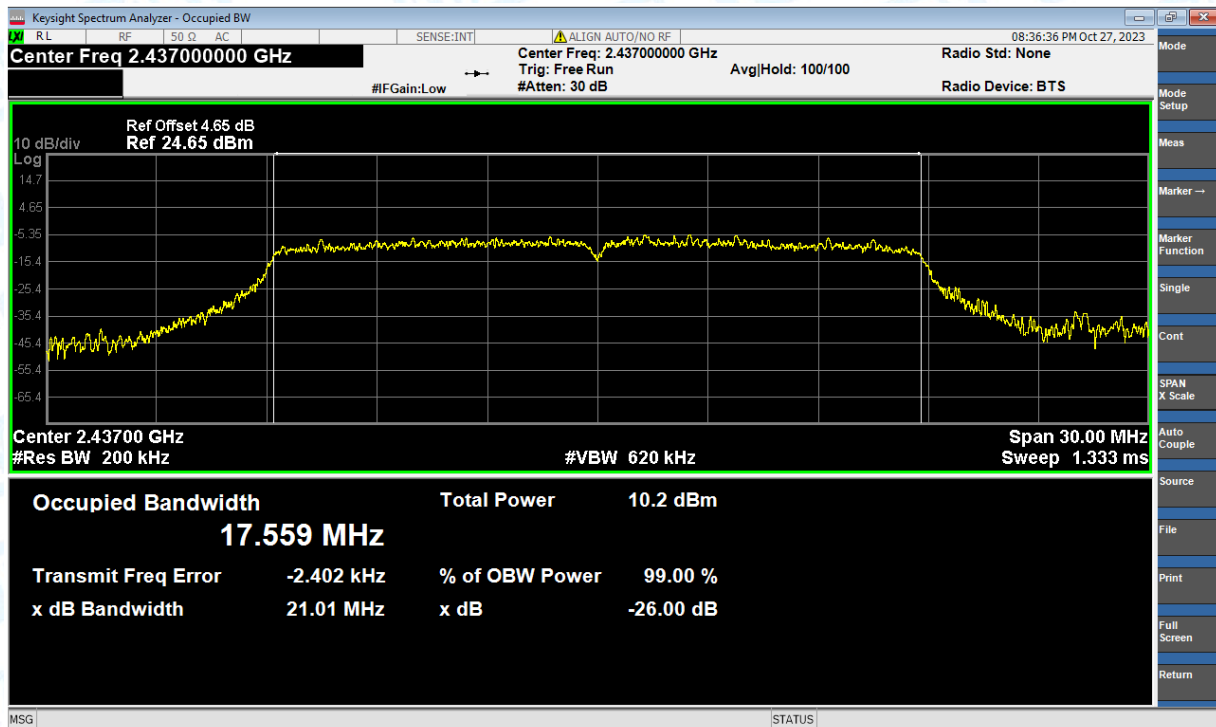
OBW NVNT n(HT20) 2412MHz Ant2



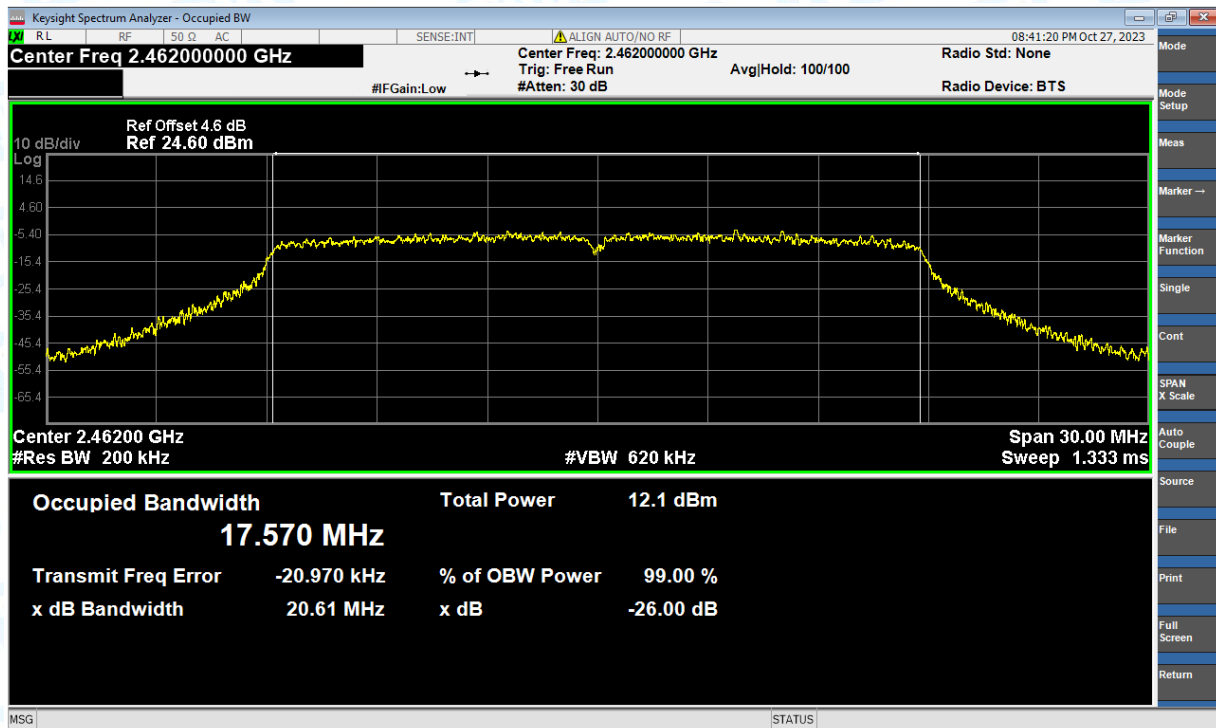
OBW NVNT n(HT20) 2437MHz Ant1



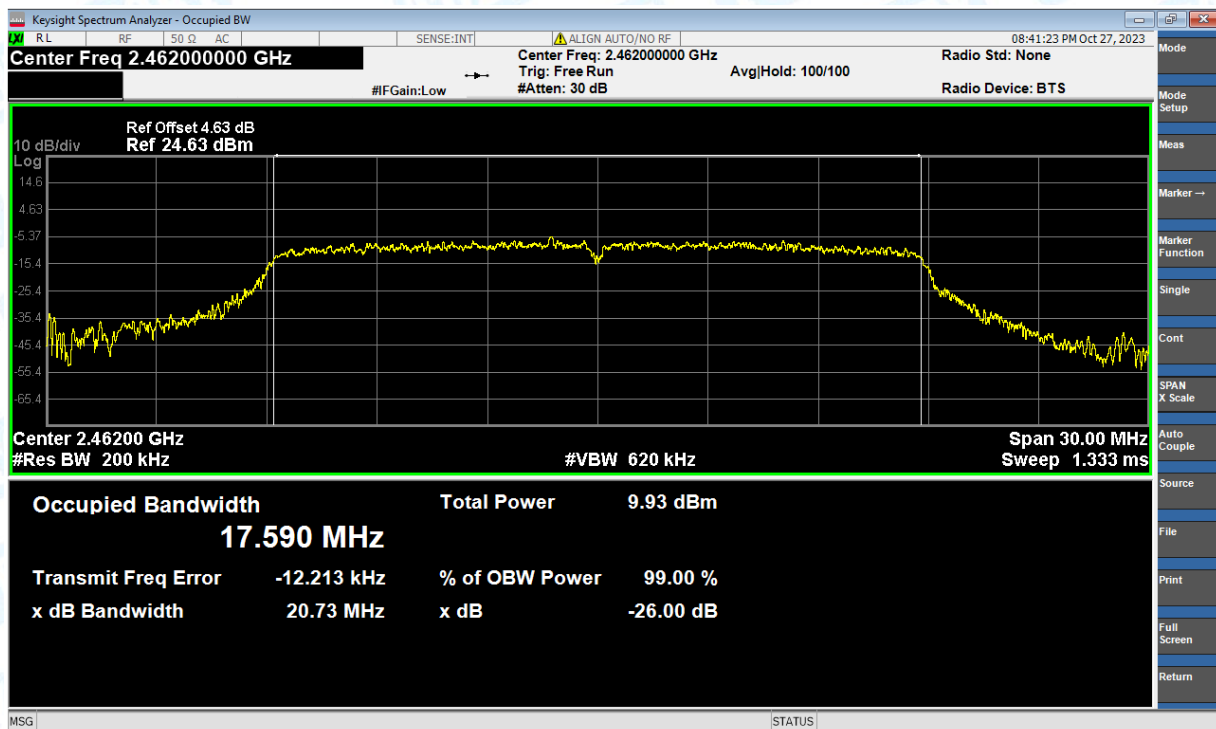
OBW NVNT n(HT20) 2437MHz Ant2



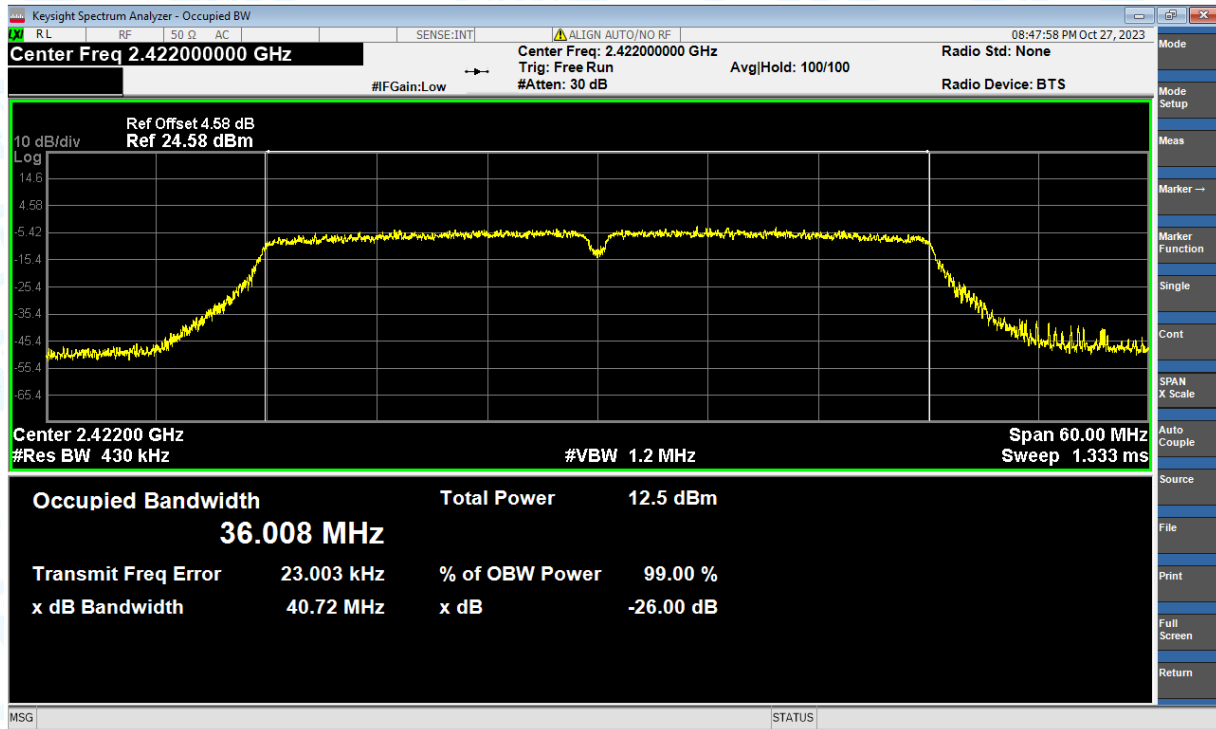
OBW NVNT n(HT20) 2462MHz Ant1



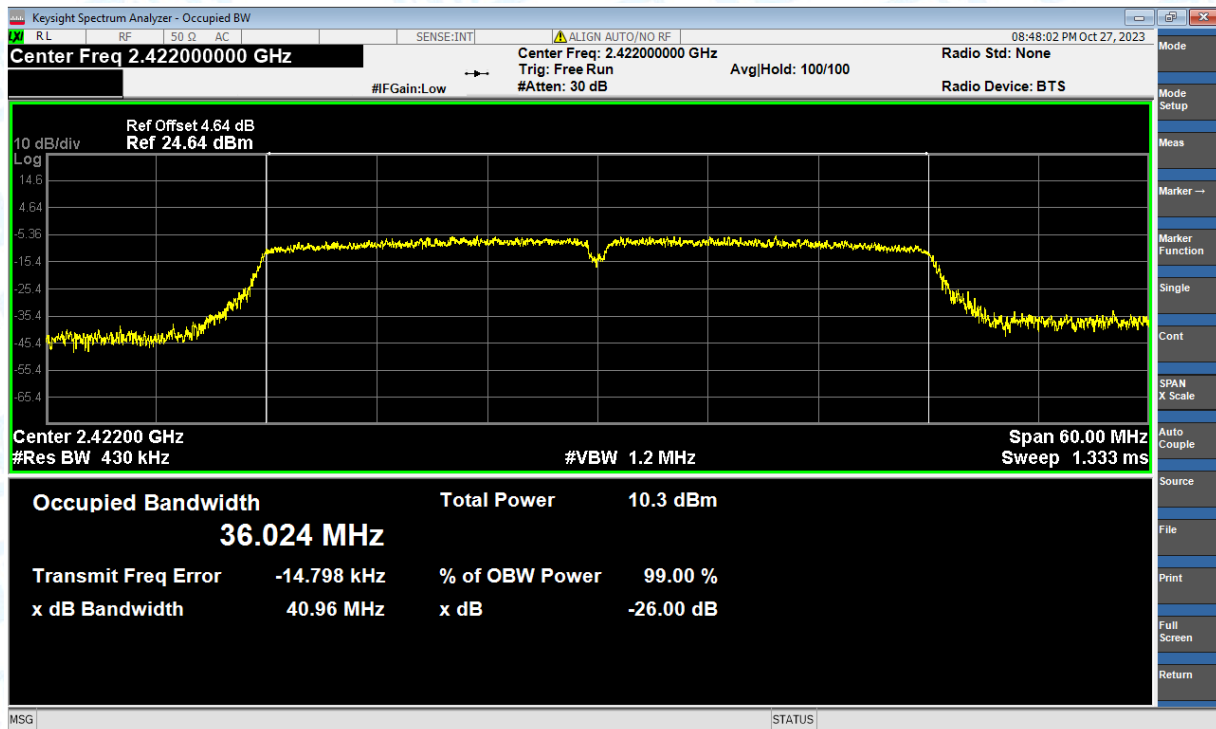
OBW NVNT n(HT20) 2462MHz Ant2



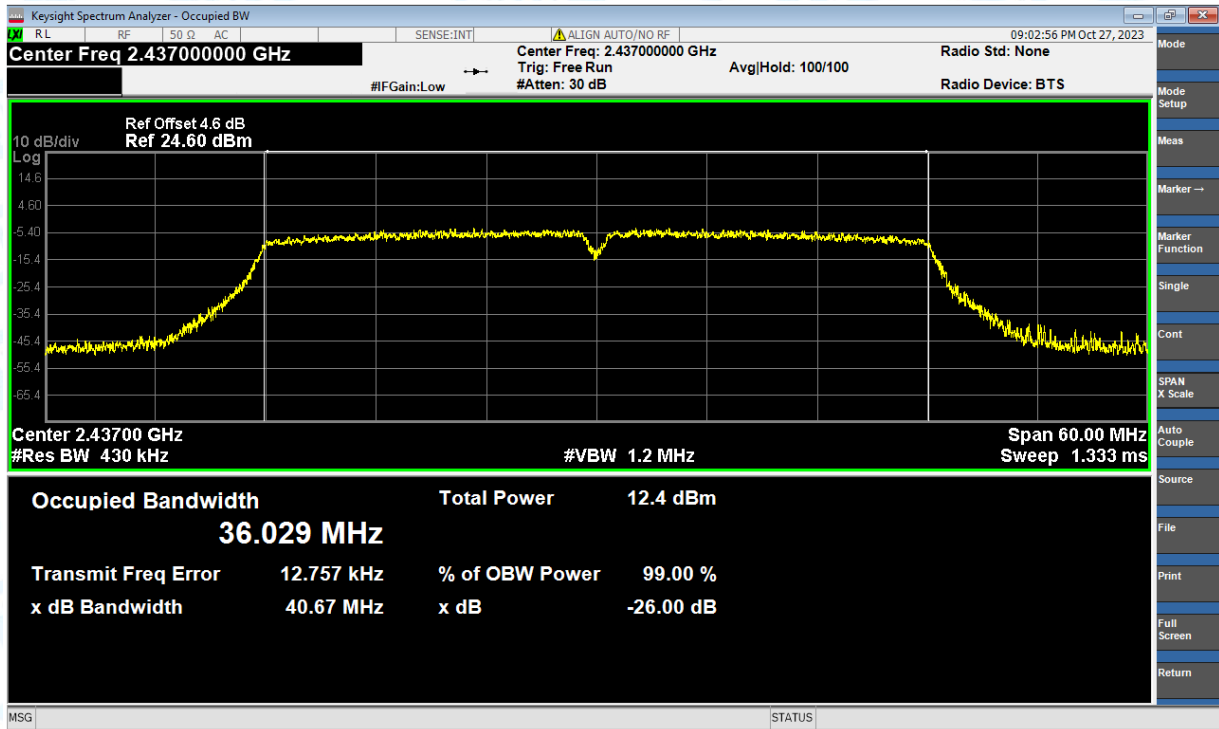
OBW NVNT n(HT40) 2422MHz Ant1



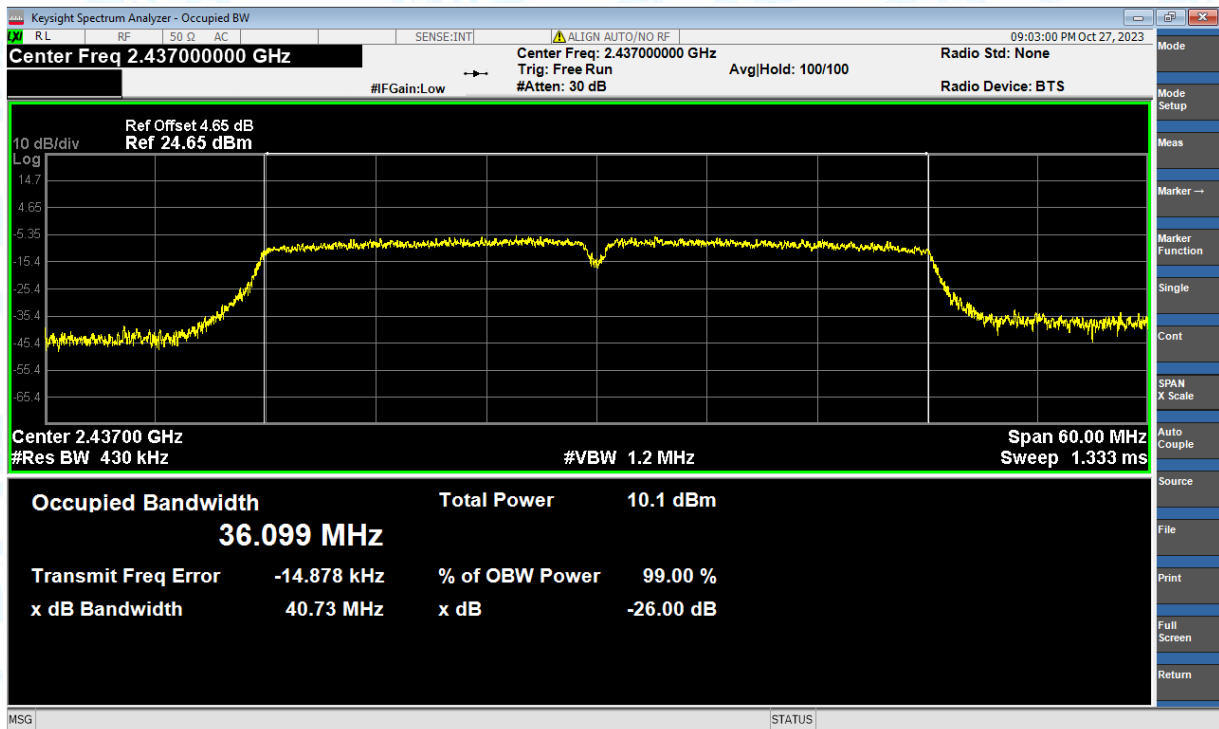
OBW NVNT n(HT40) 2422MHz Ant2



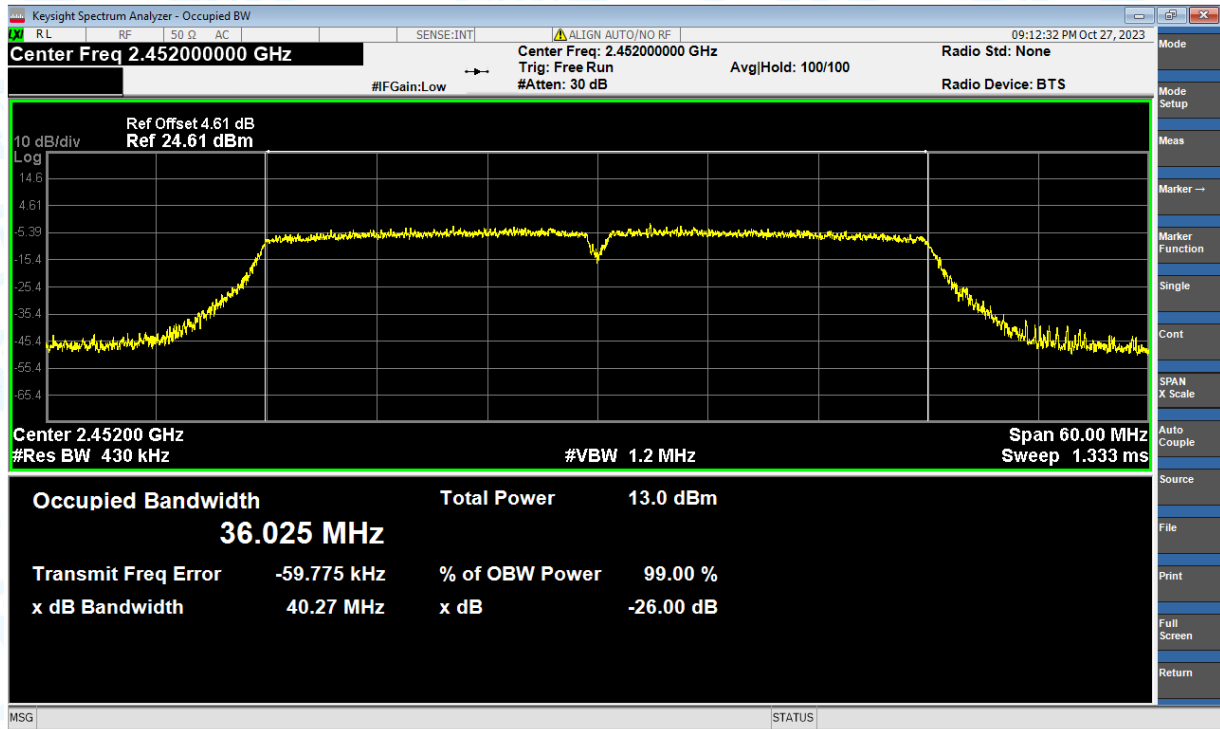
OBW NVNT n(HT40) 2437MHz Ant1



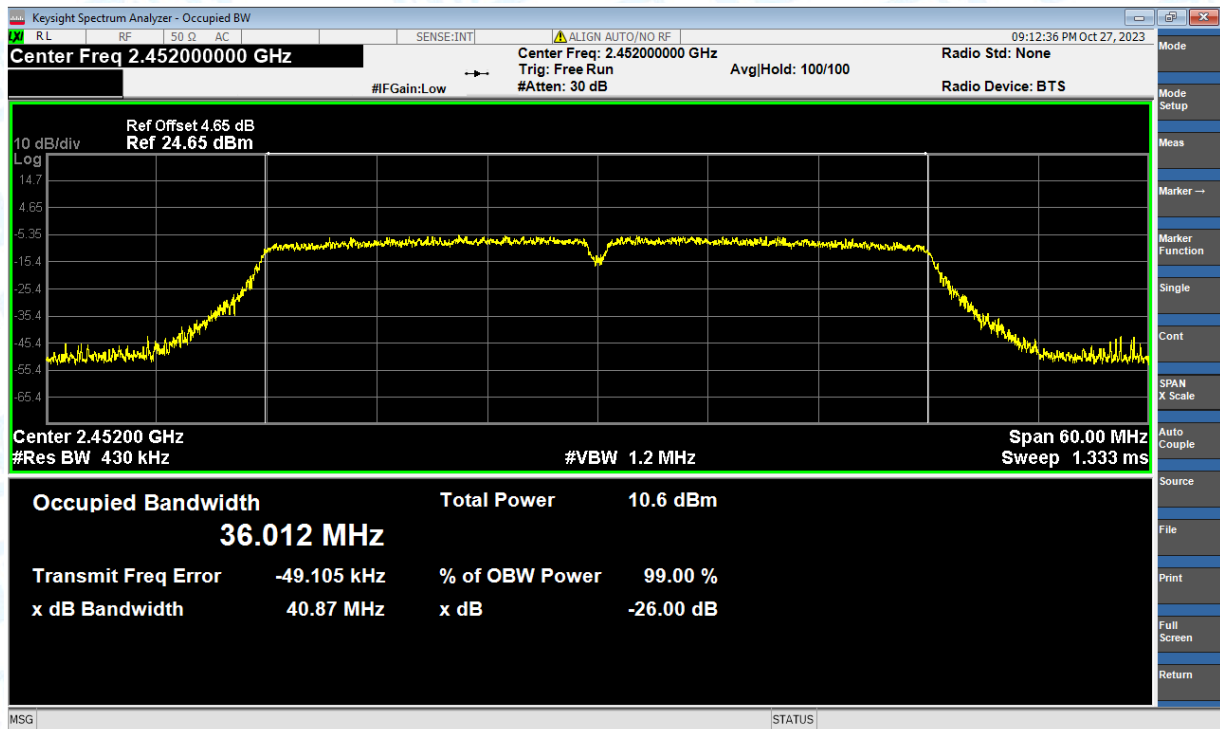
OBW NVNT n(HT40) 2437MHz Ant2



OBW NVNT n(HT40) 2452MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant2

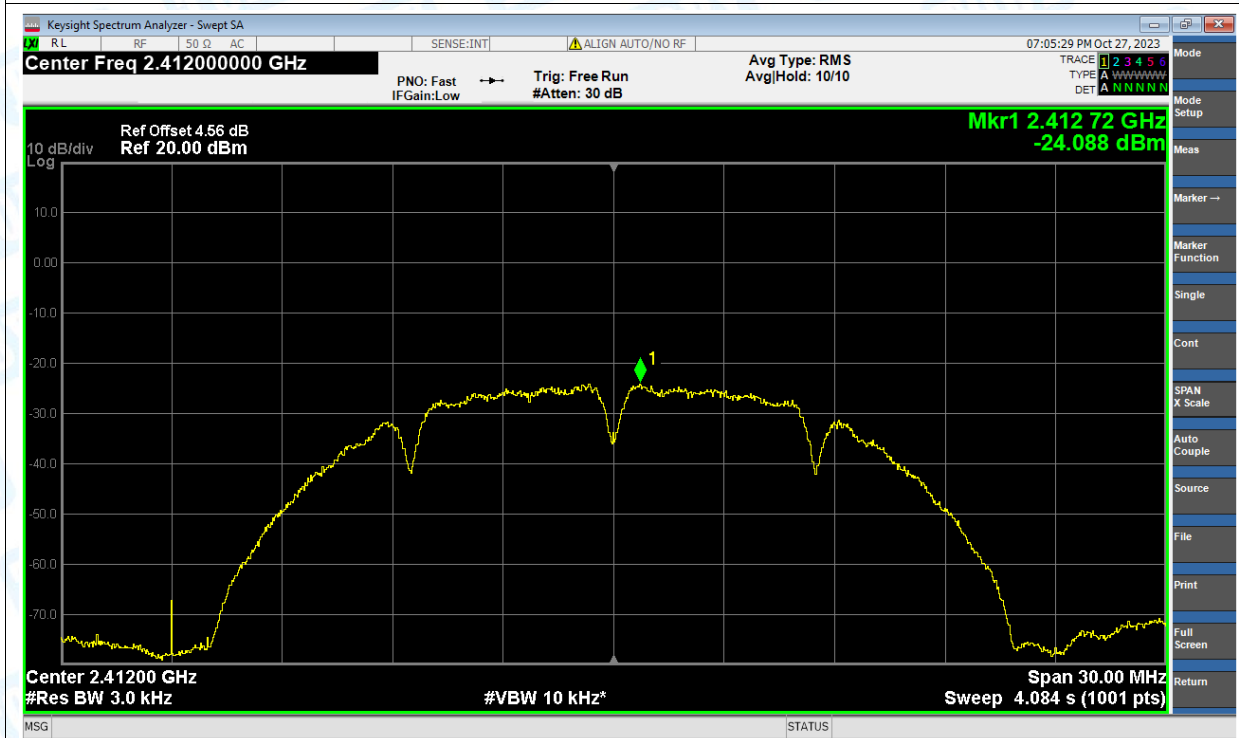


Maximum Power Spectral Density Level

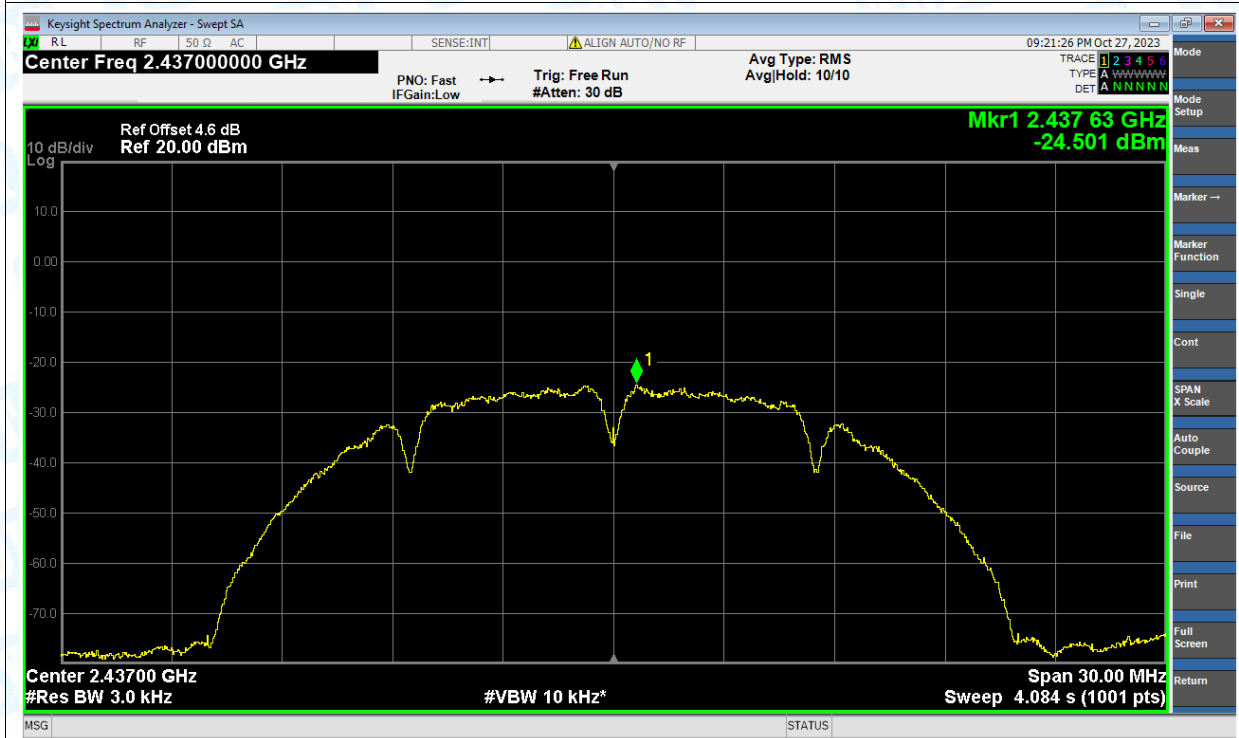
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-24.088	8	Pass
NVNT	b	2437	Ant1	-24.501	8	Pass
NVNT	b	2462	Ant1	-24.619	8	Pass
NVNT	b	2412	Ant2	-25.066	8	Pass
NVNT	b	2437	Ant2	-23.902	8	Pass
NVNT	b	2462	Ant2	-24.51	8	Pass
NVNT	g	2412	Ant1	-25.432	8	Pass
NVNT	g	2437	Ant1	-25.766	8	Pass
NVNT	g	2462	Ant1	-25.761	8	Pass
NVNT	g	2412	Ant2	-27.155	8	Pass
NVNT	g	2437	Ant2	-27.521	8	Pass
NVNT	g	2462	Ant2	-27.461	8	Pass
NVNT	n(HT20)	2412	Ant1	-27.452	8	Pass
NVNT	n(HT20)	2412	Ant2	-29.424	8	Pass
NVNT	n(HT20)	2412	Sum	-25.317	8	Pass
NVNT	n(HT20)	2437	Ant1	-27.185	8	Pass
NVNT	n(HT20)	2437	Ant2	-29.739	8	Pass
NVNT	n(HT20)	2437	Sum	-25.267	8	Pass
NVNT	n(HT20)	2462	Ant1	-26.77	8	Pass
NVNT	n(HT20)	2462	Ant2	-29.284	8	Pass
NVNT	n(HT20)	2462	Sum	-24.837	8	Pass
NVNT	n(HT40)	2422	Ant1	-30.651	8	Pass
NVNT	n(HT40)	2422	Ant2	-33.206	8	Pass
NVNT	n(HT40)	2422	Sum	-28.733	8	Pass
NVNT	n(HT40)	2437	Ant1	-31.626	8	Pass
NVNT	n(HT40)	2437	Ant2	-36.508	8	Pass
NVNT	n(HT40)	2437	Sum	-30.404	8	Pass
NVNT	n(HT40)	2452	Ant1	-30.244	8	Pass
NVNT	n(HT40)	2452	Ant2	-32.744	8	Pass
NVNT	n(HT40)	2452	Sum	-28.306	8	Pass

Test Graphs

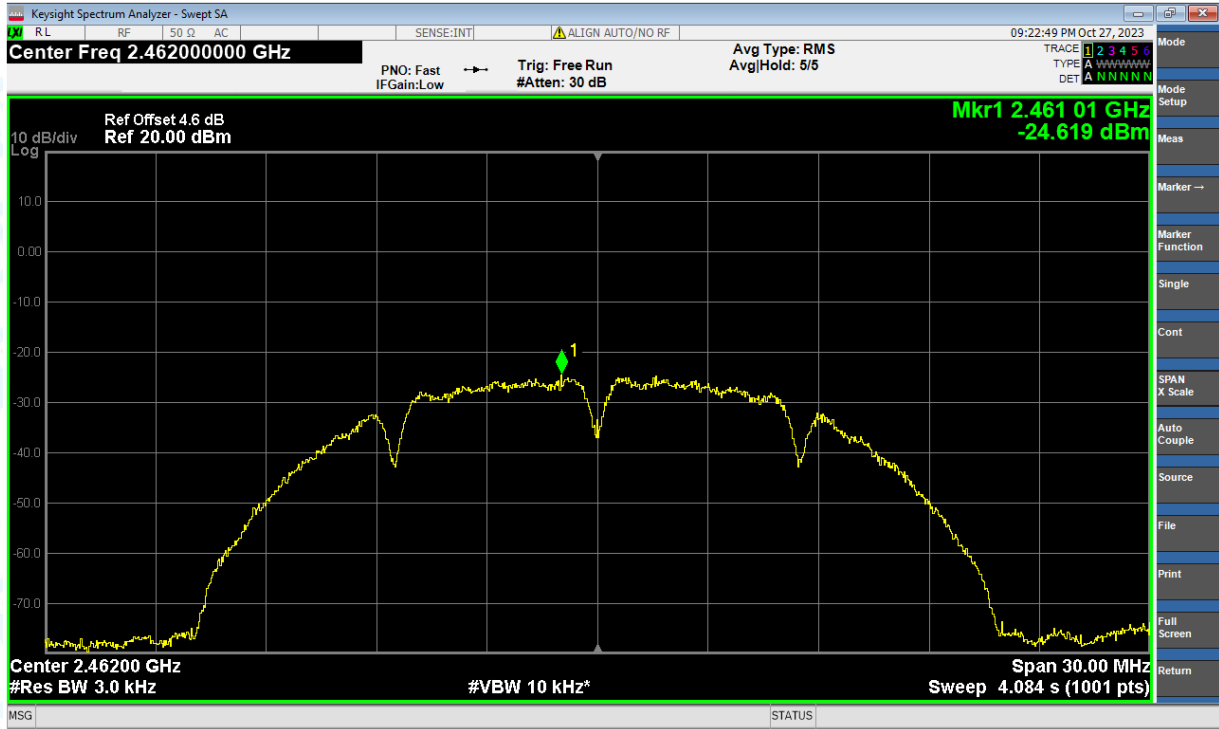
PSD NVNT b 2412MHz Ant1



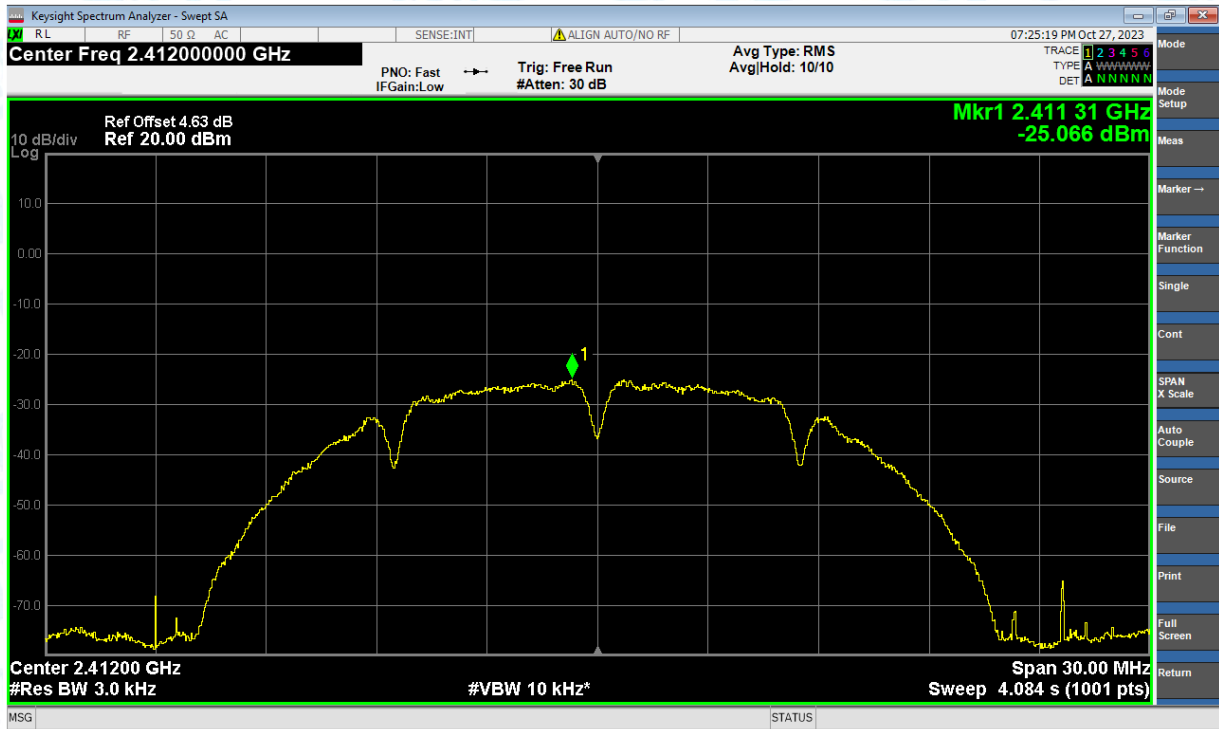
PSD NVNT b 2437MHz Ant1



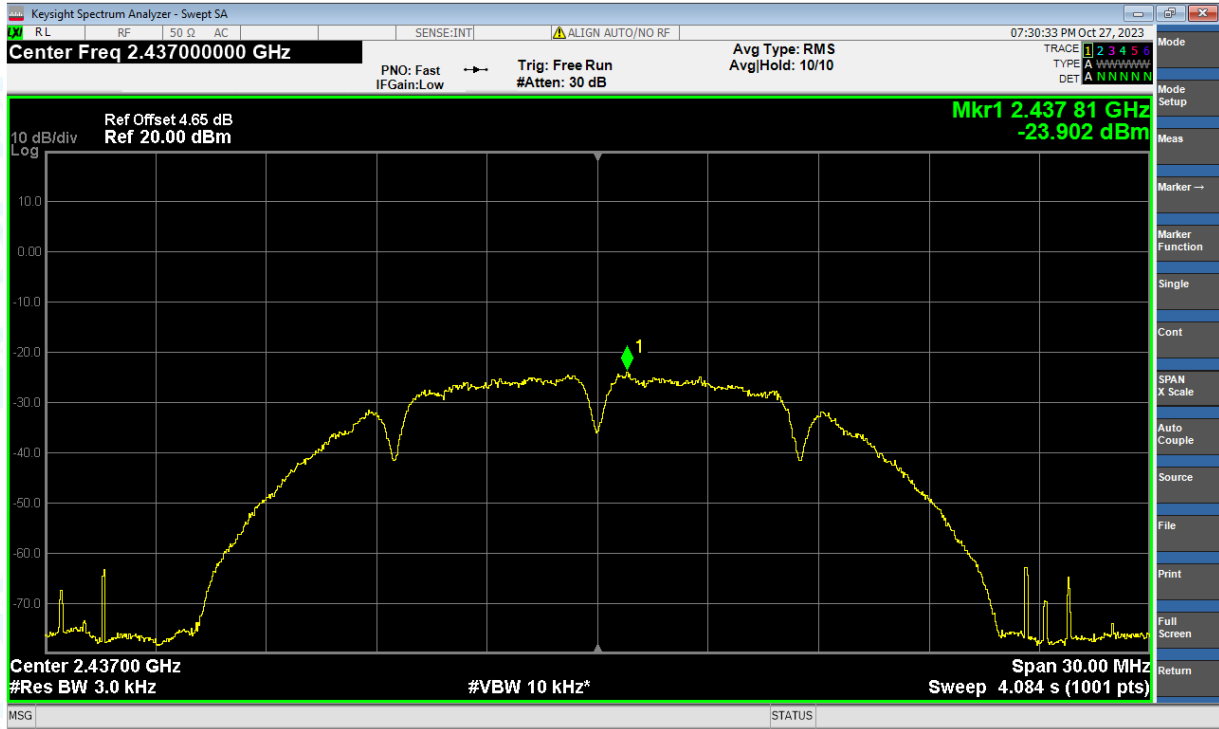
PSD NVNT b 2462MHz Ant1



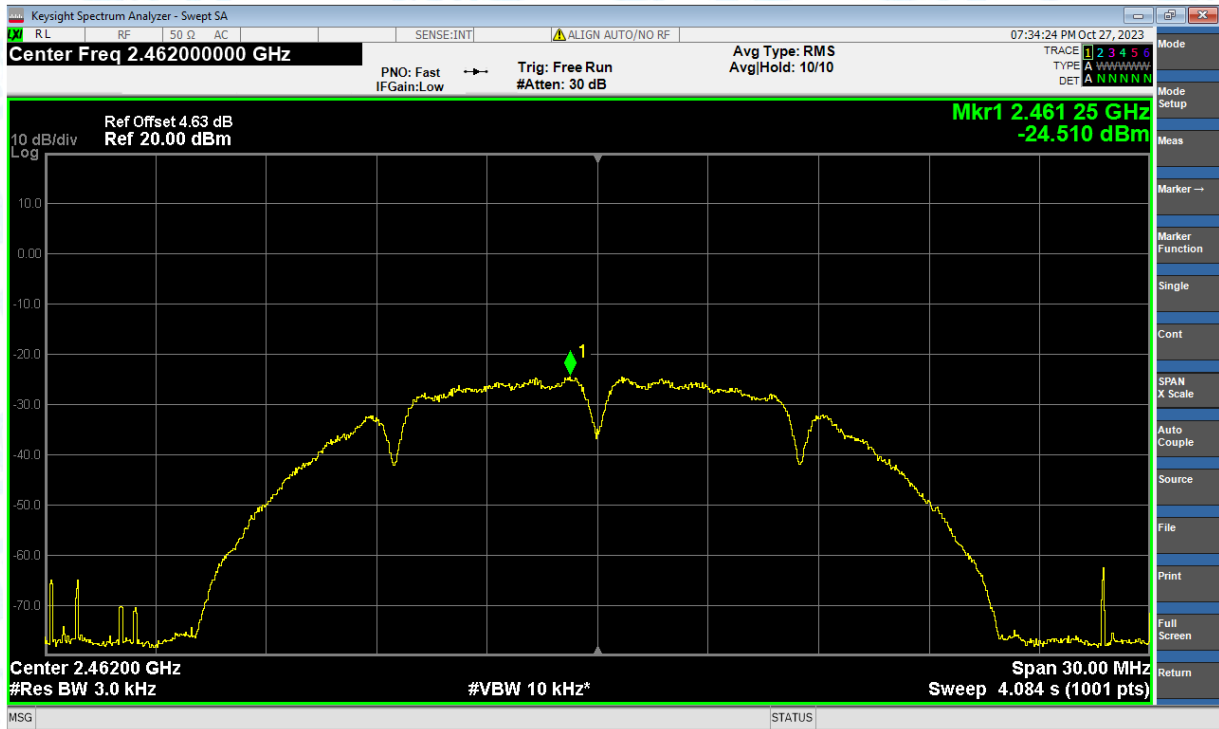
PSD NVNT b 2412MHz Ant2



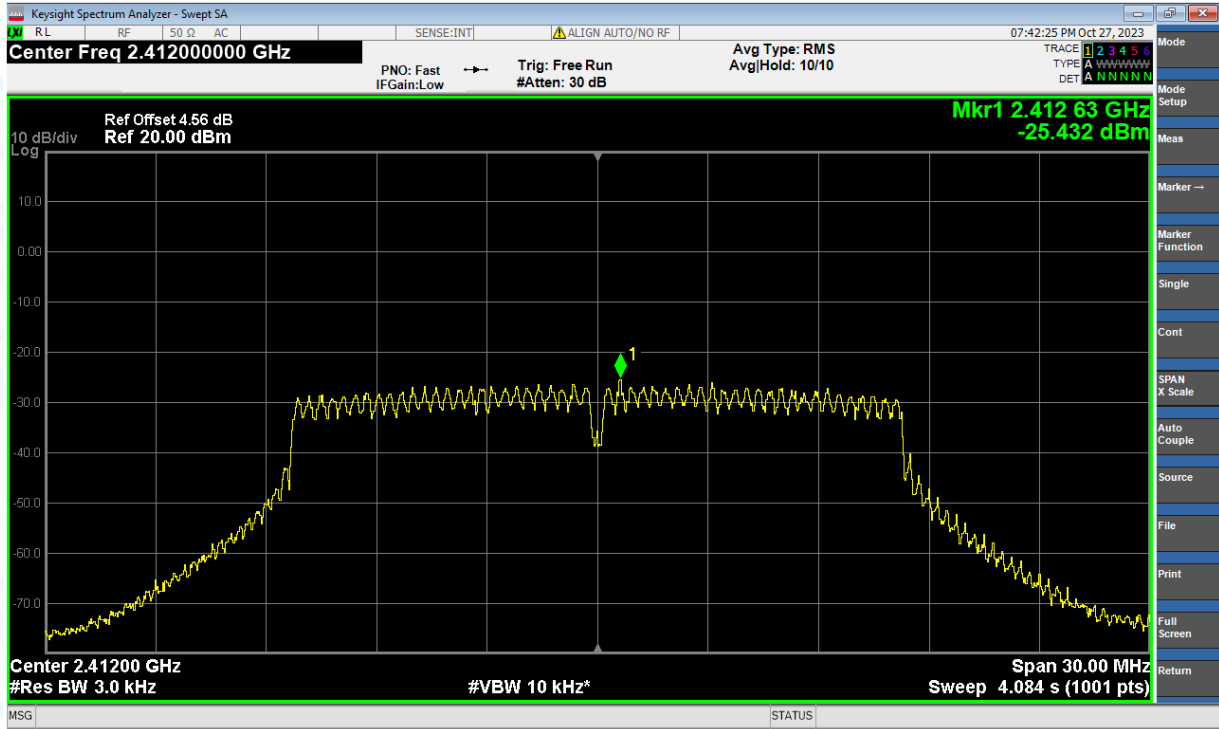
PSD NVNT b 2437MHz Ant2



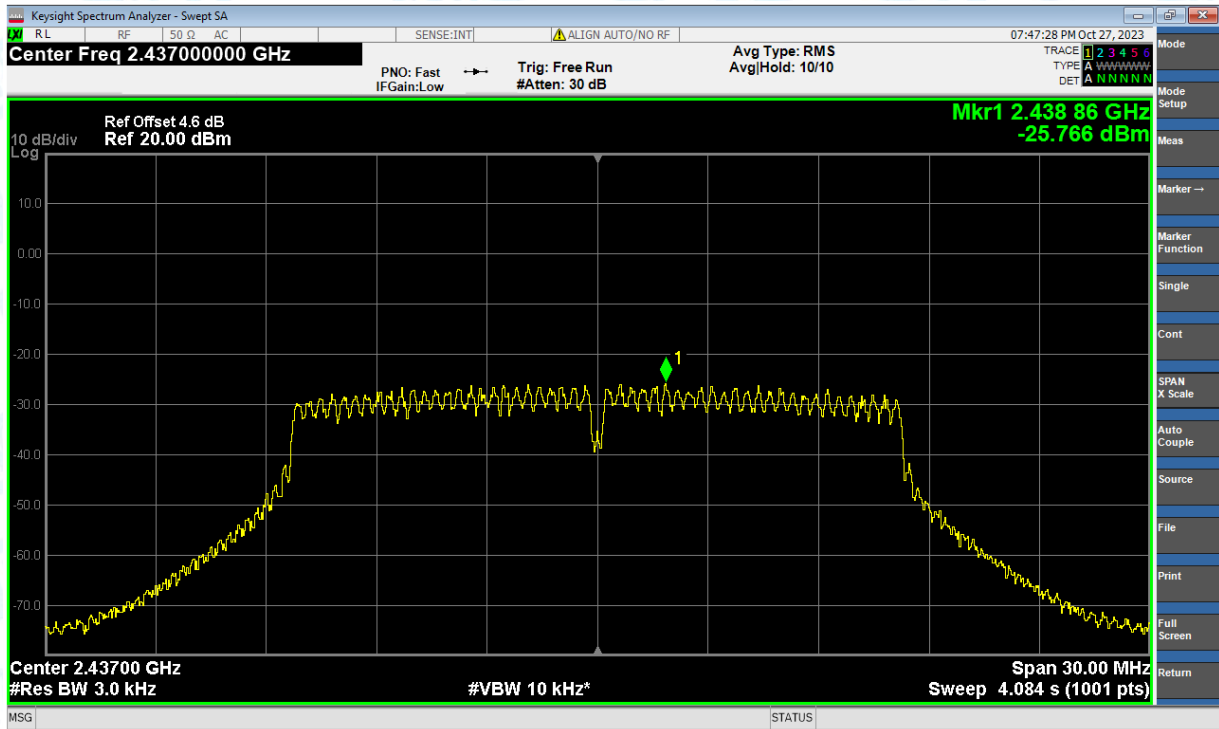
PSD NVNT b 2462MHz Ant2



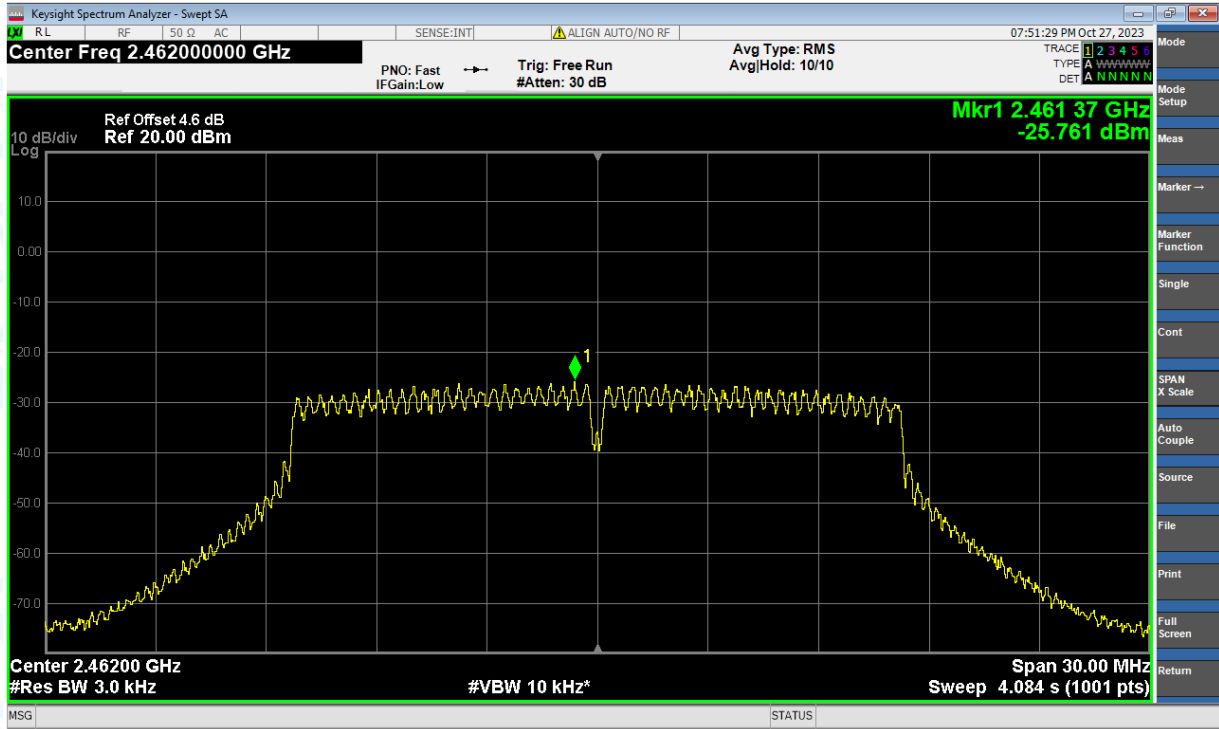
PSD NVNT g 2412MHz Ant1



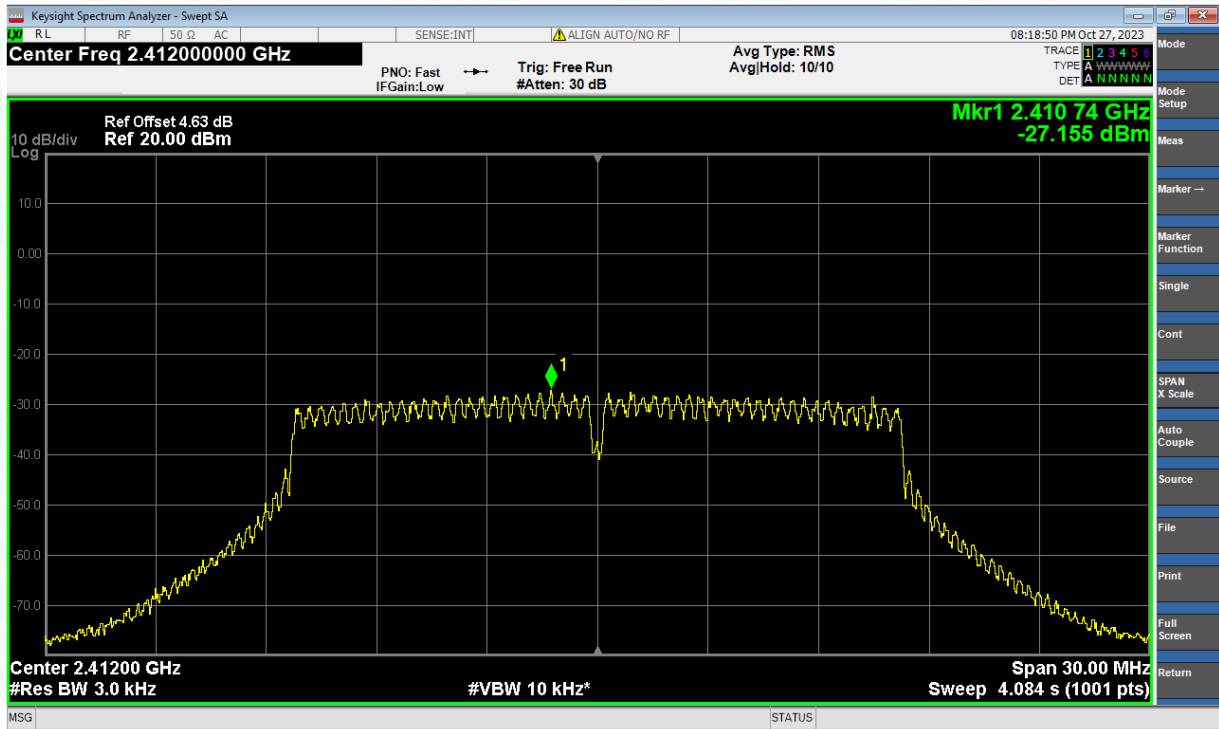
PSD NVNT g 2437MHz Ant1



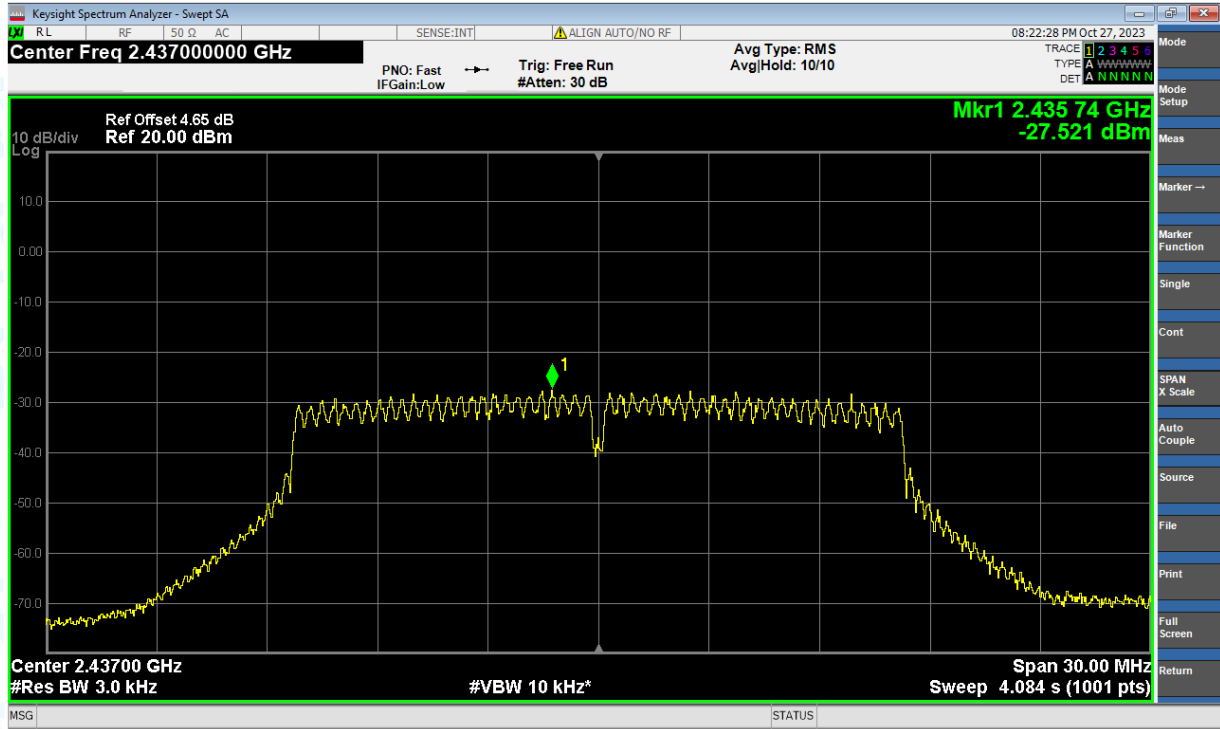
PSD NVNT g 2462MHz Ant1



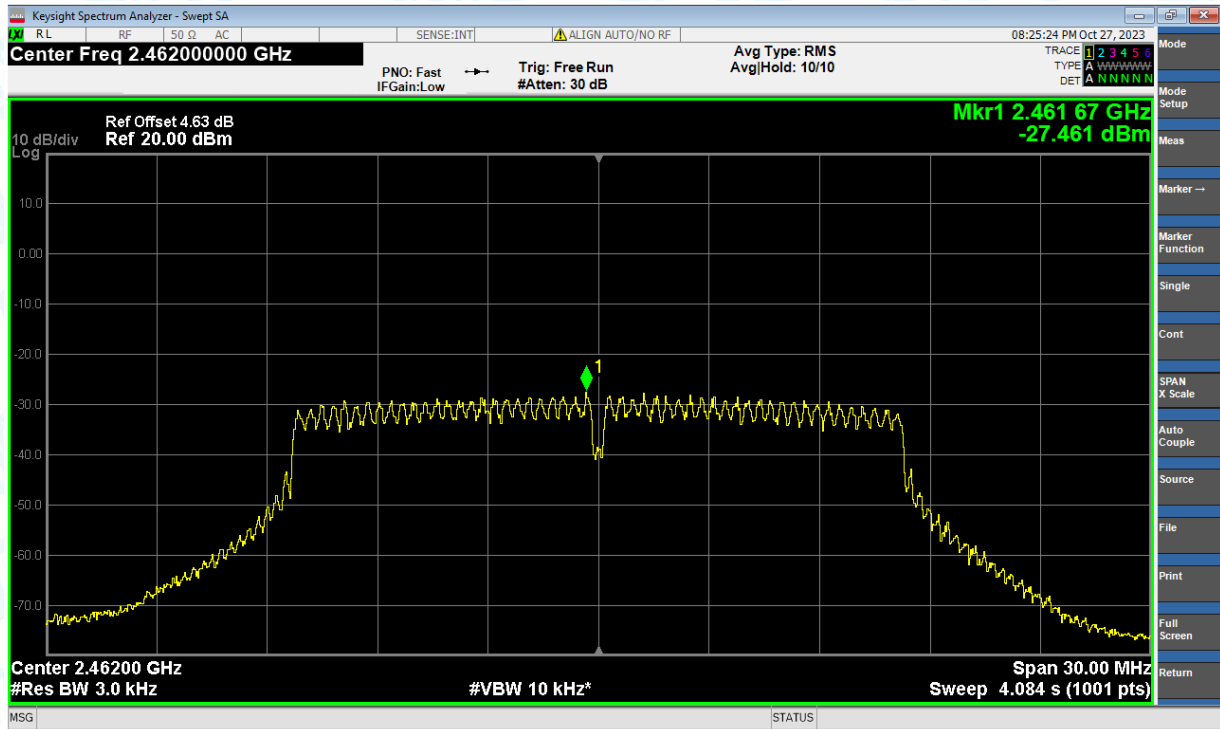
PSD NVNT g 2412MHz Ant2



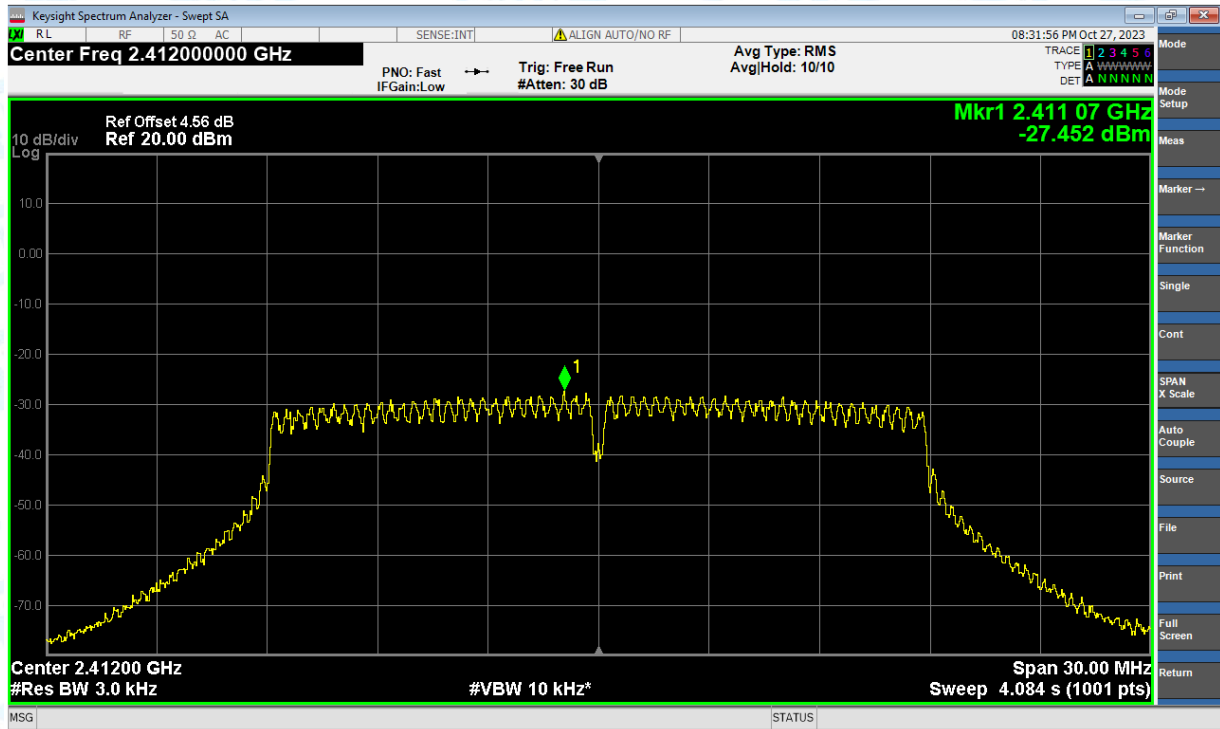
PSD NVNT g 2437MHz Ant2



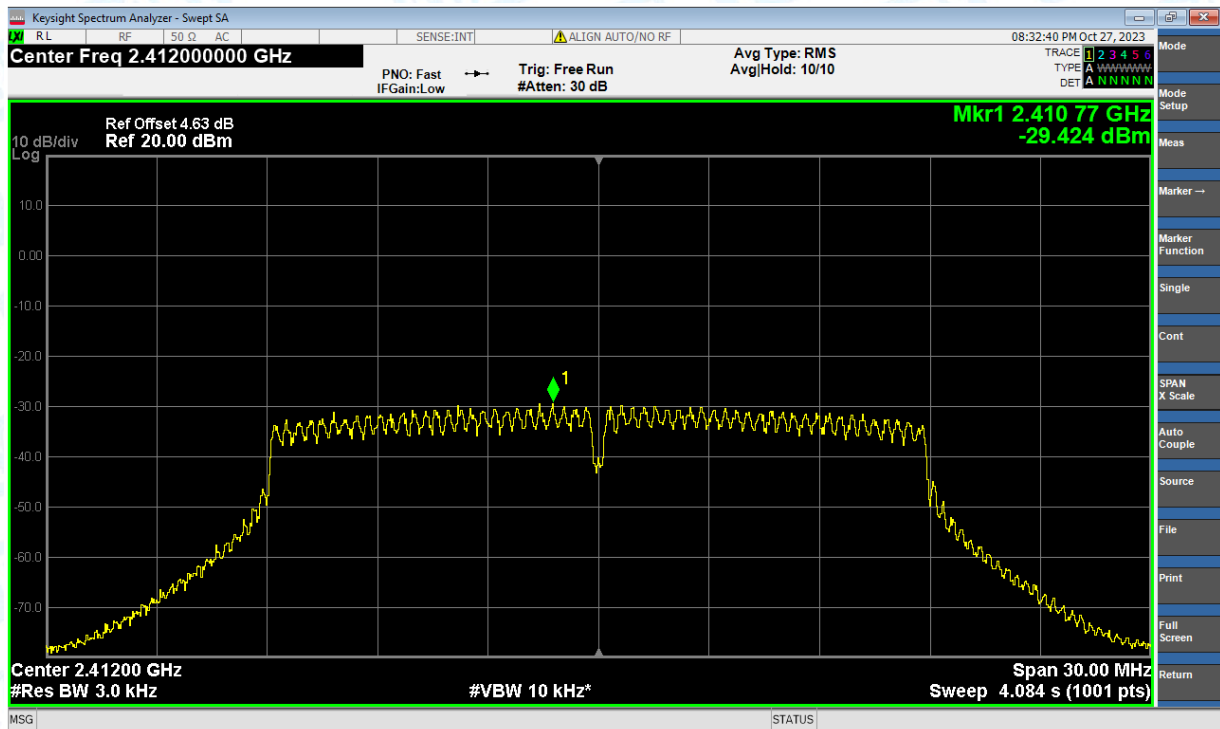
PSD NVNT g 2462MHz Ant2



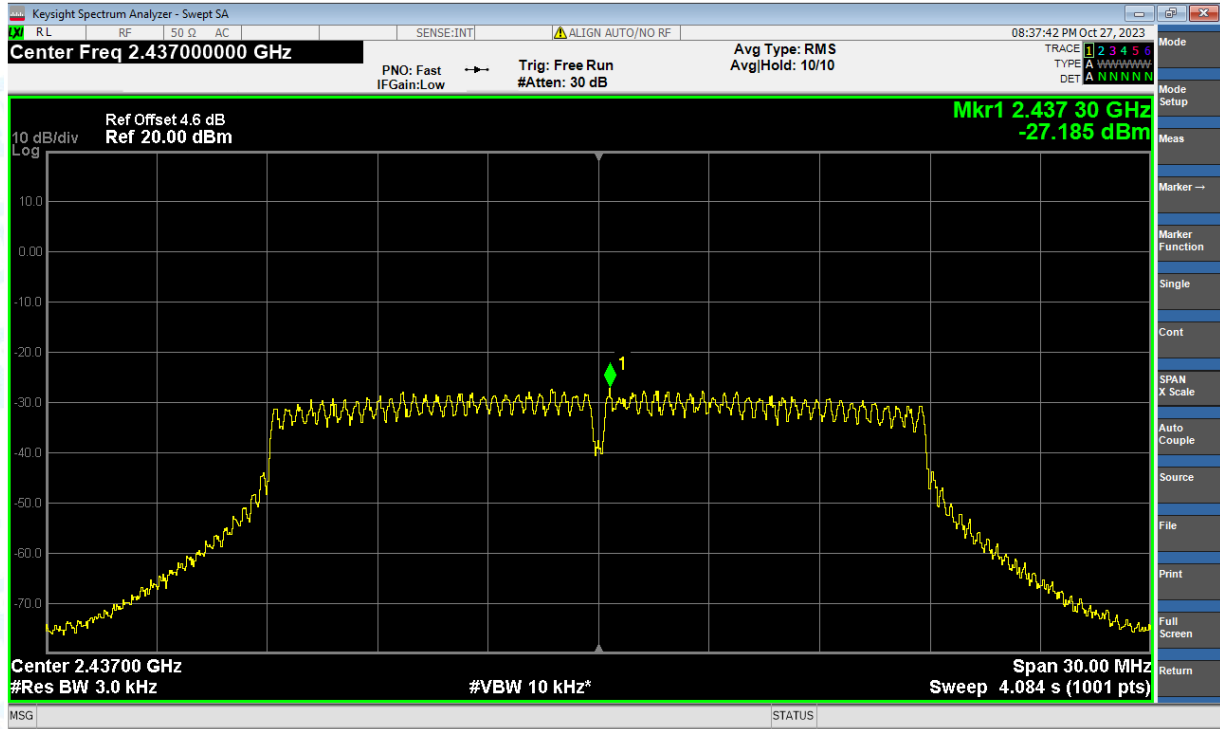
PSD NVNT n(HT20) 2412MHz Ant1



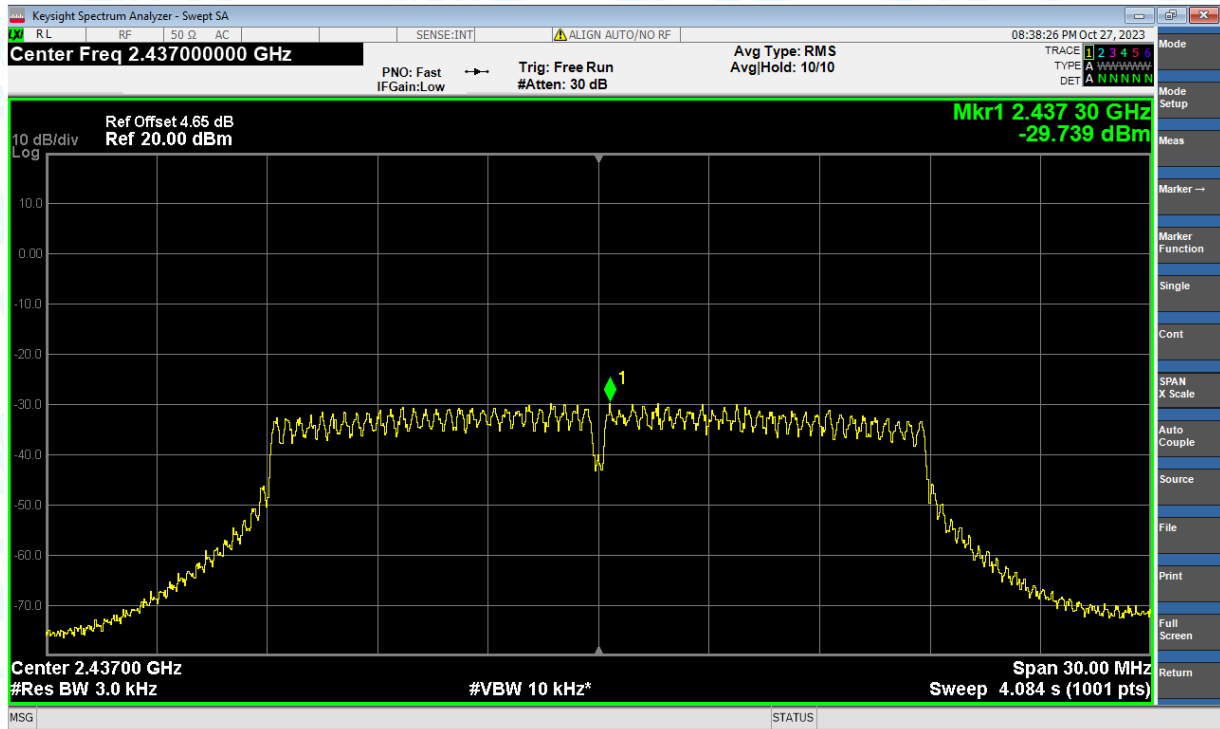
PSD NVNT n(HT20) 2412MHz Ant2



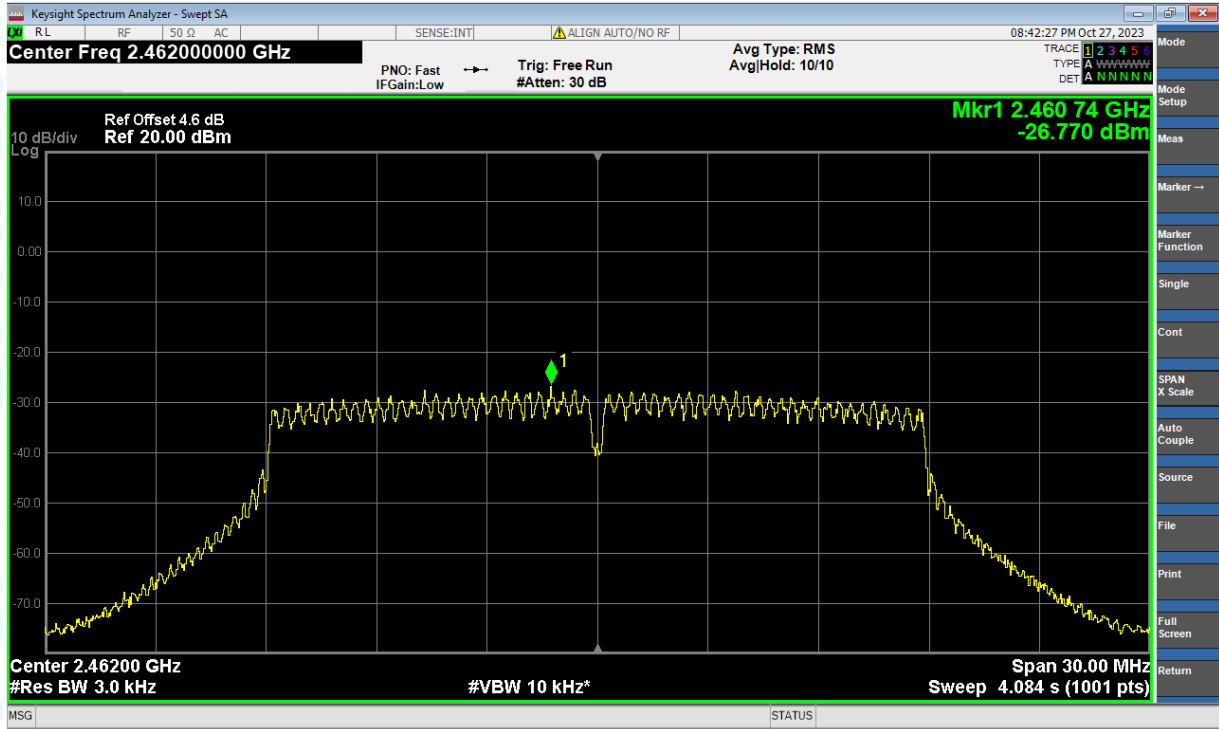
PSD NVNT n(HT20) 2437MHz Ant1



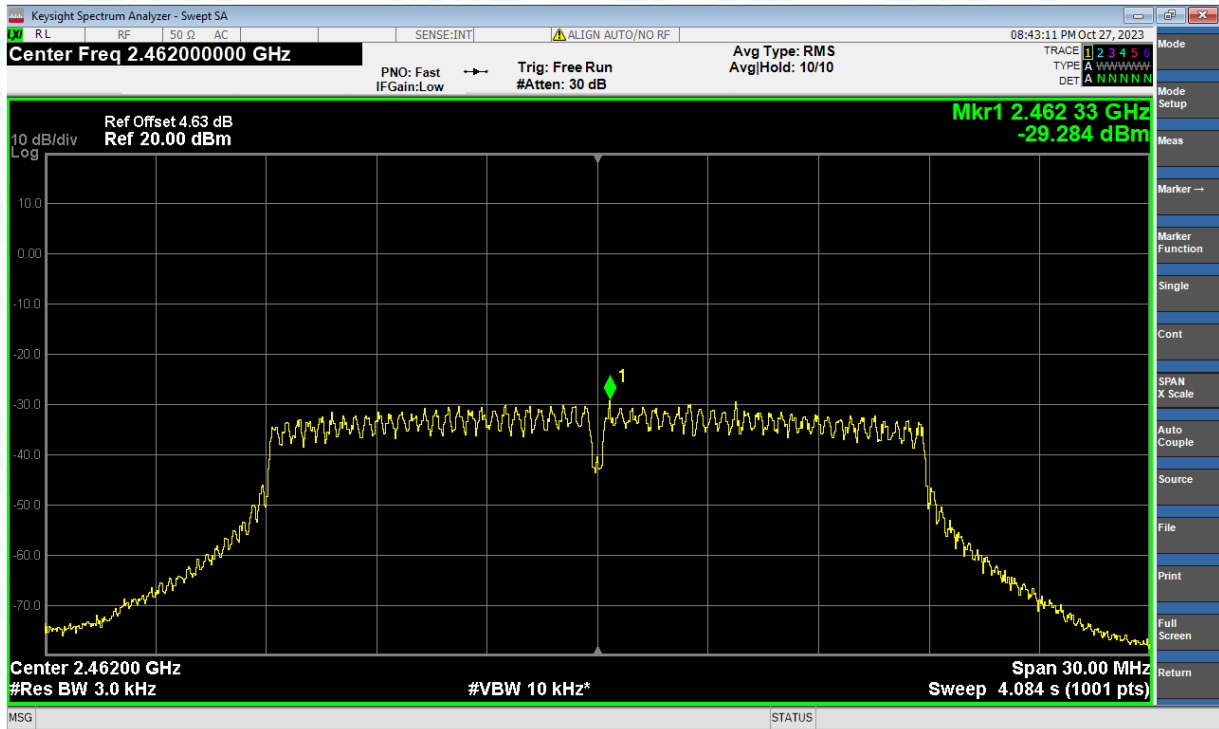
PSD NVNT n(HT20) 2437MHz Ant2



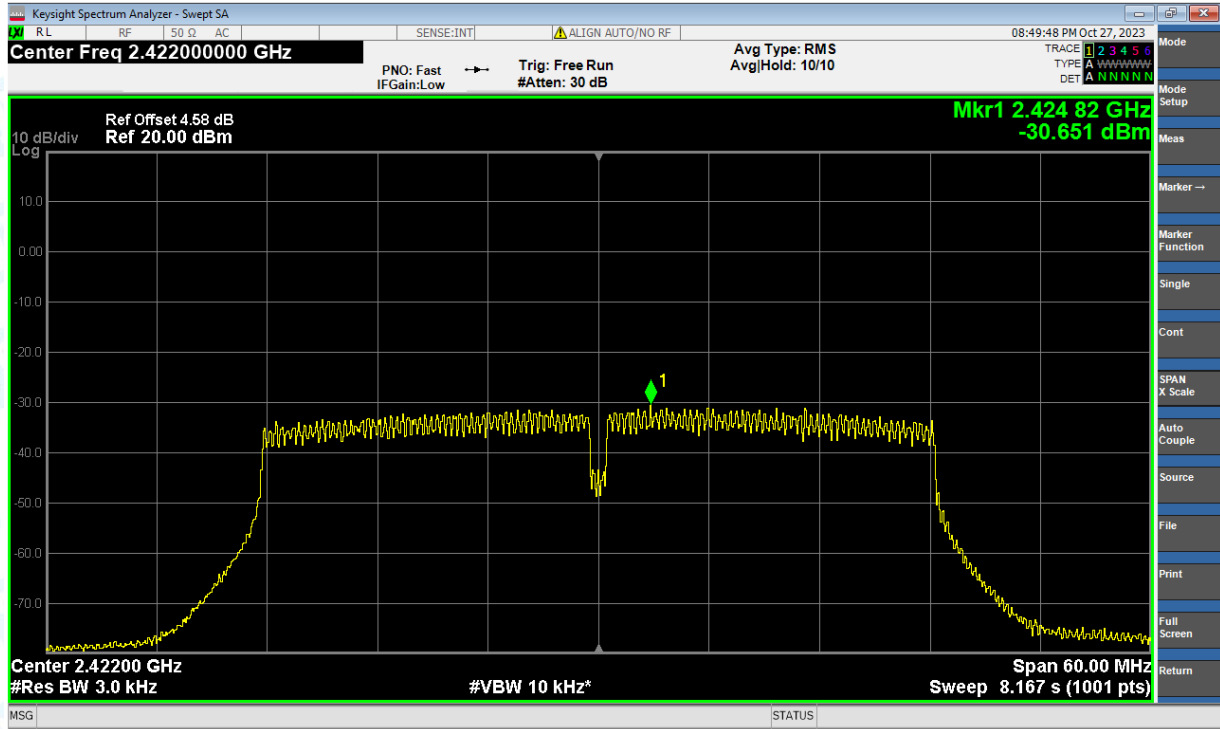
PSD NVNT n(HT20) 2462MHz Ant1



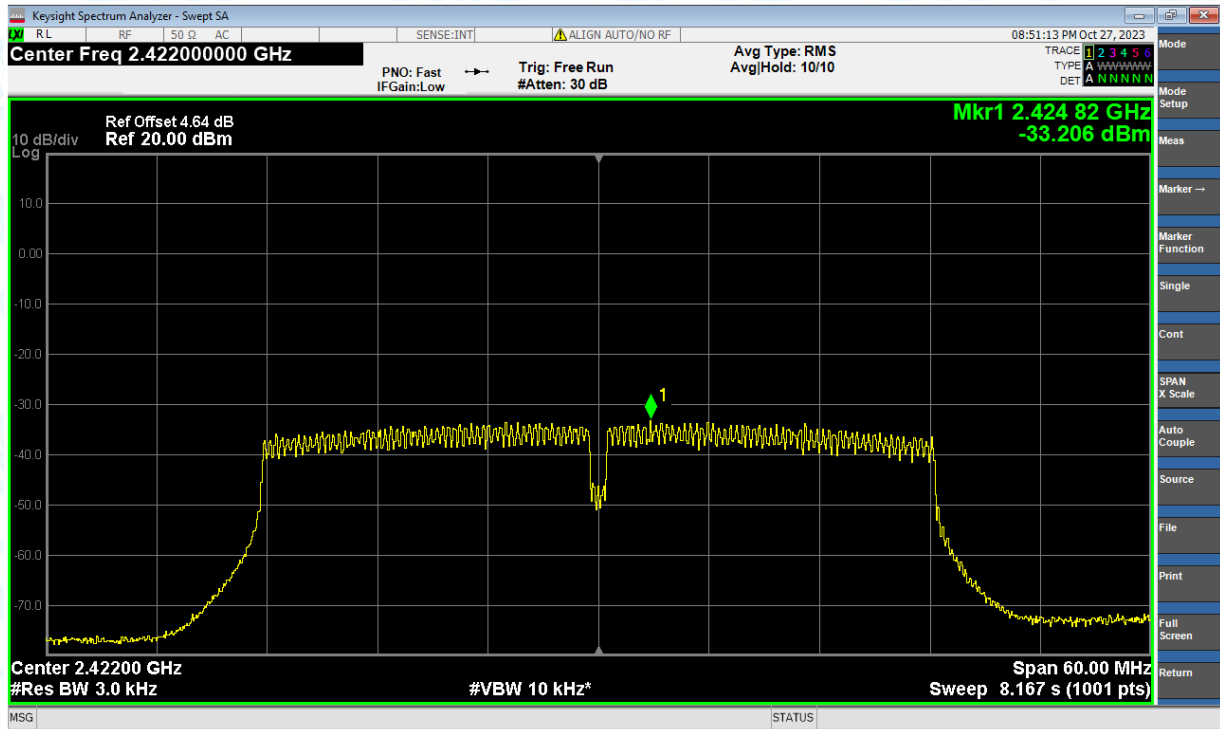
PSD NVNT n(HT20) 2462MHz Ant2



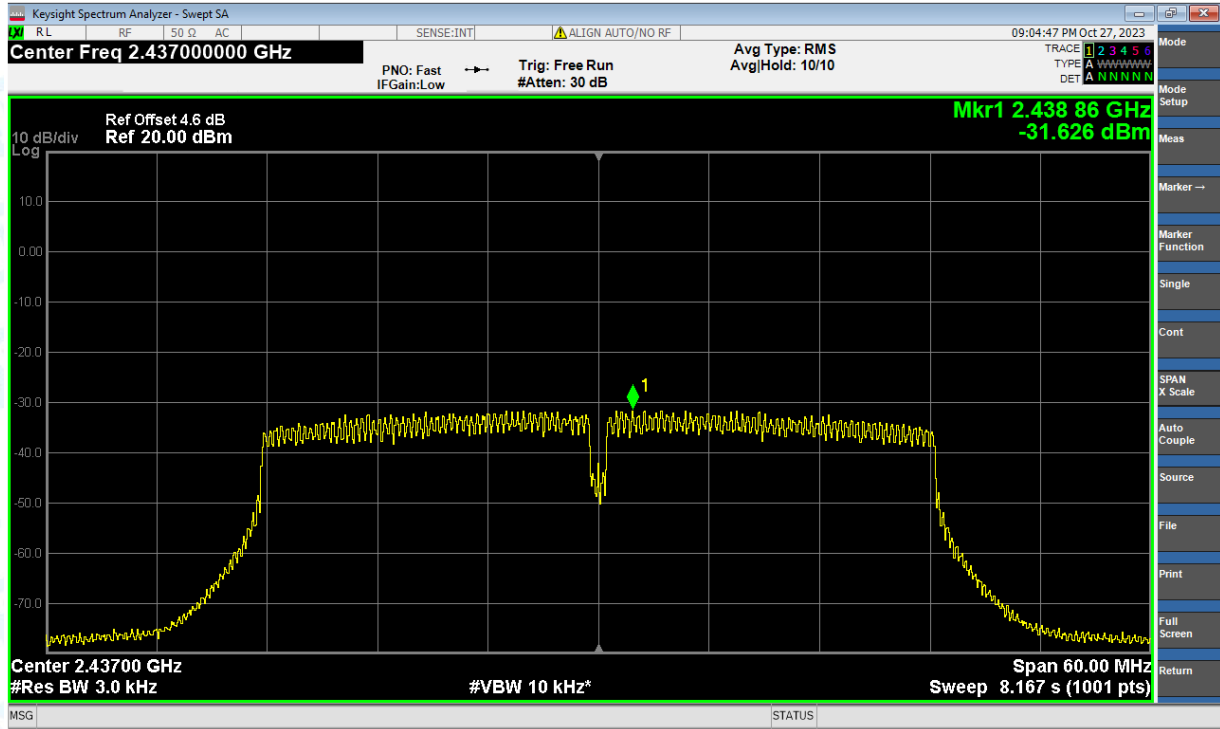
PSD NVNT n(HT40) 2422MHz Ant1



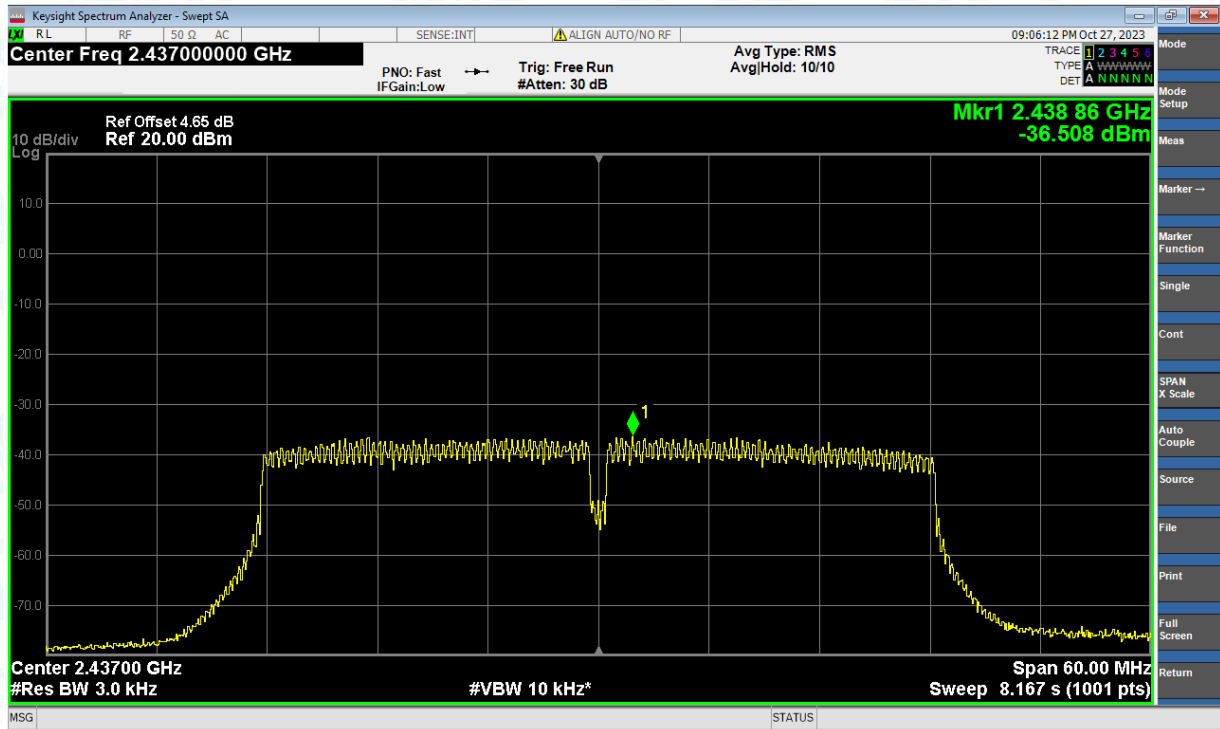
PSD NVNT n(HT40) 2422MHz Ant2



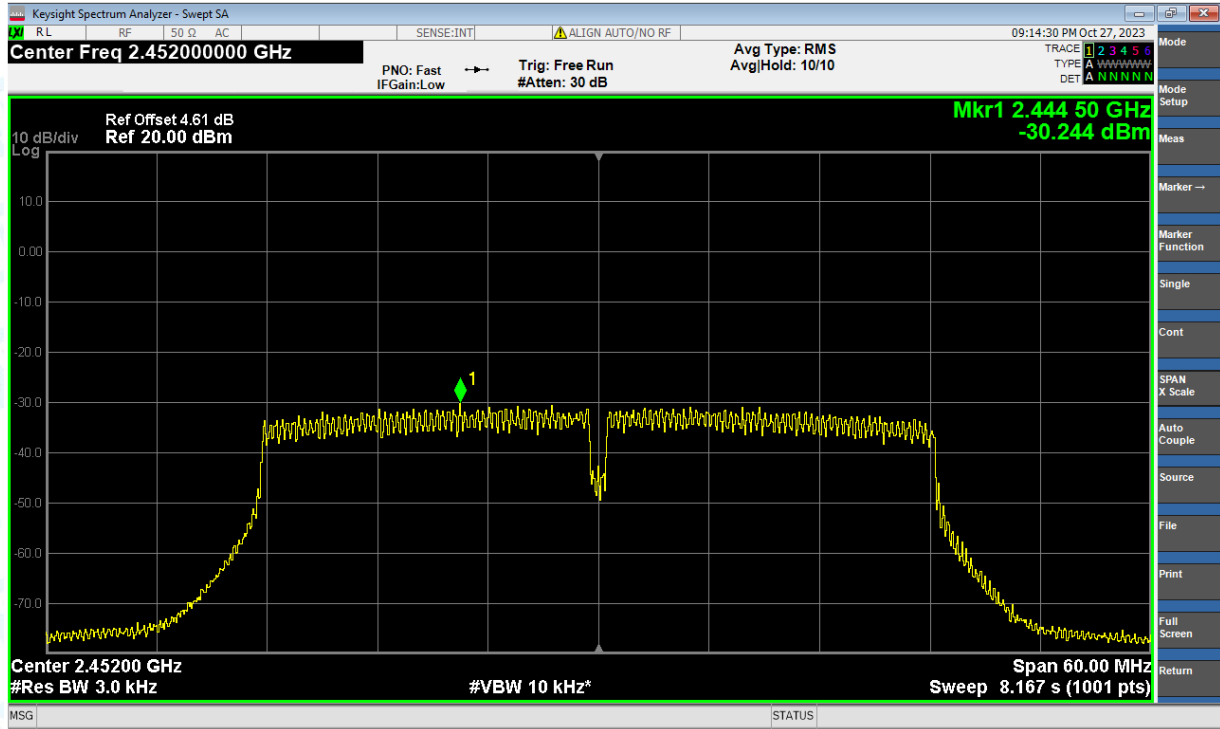
PSD NVNT n(HT40) 2437MHz Ant1



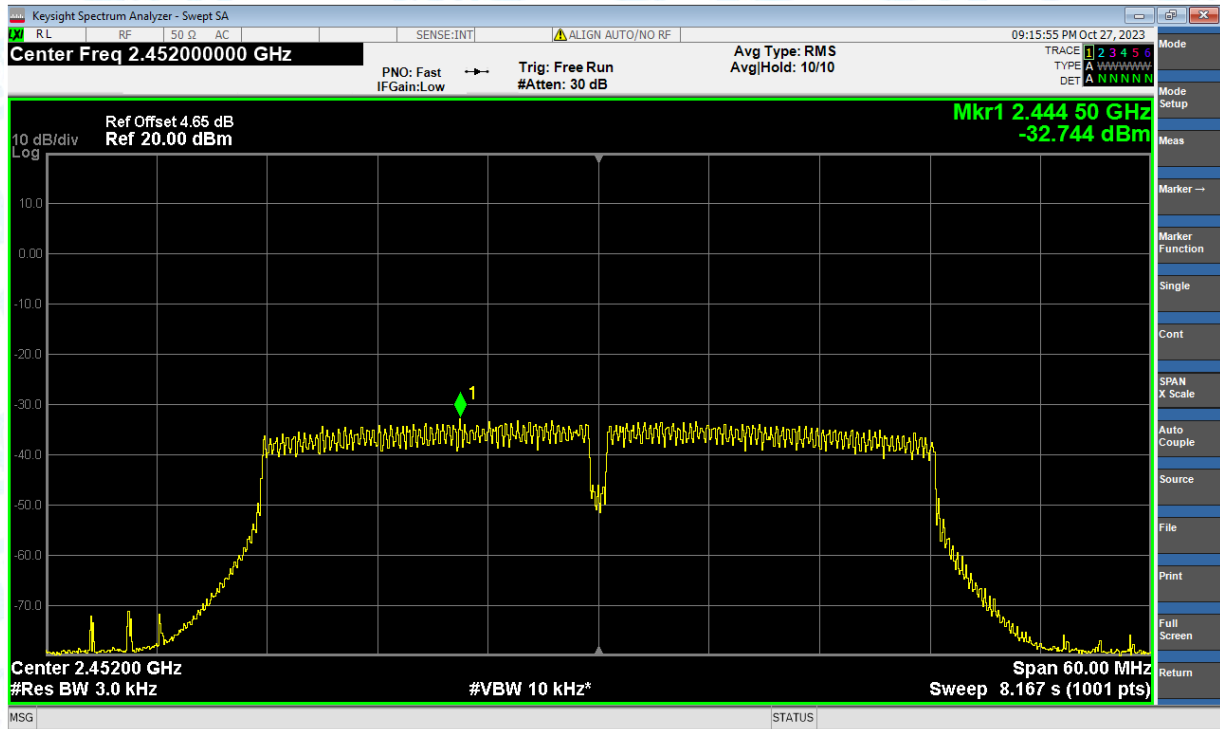
PSD NVNT n(HT40) 2437MHz Ant2



PSD NVNT n(HT40) 2452MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant2

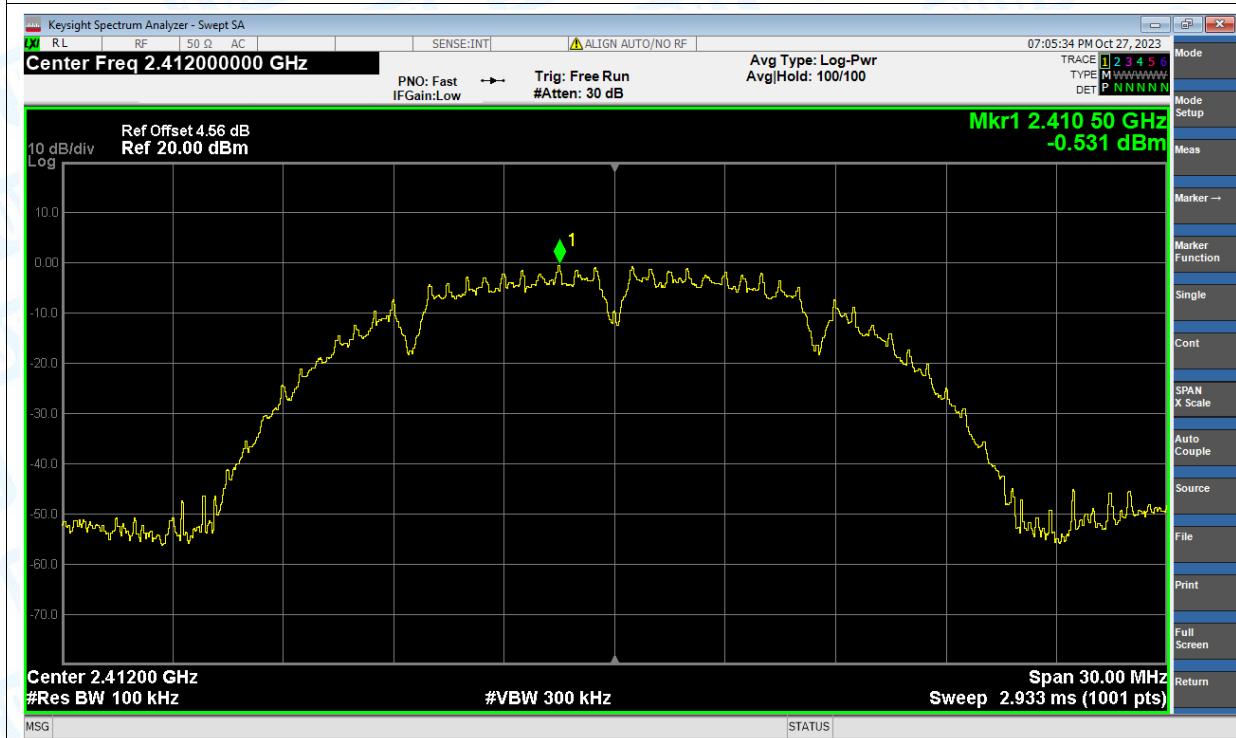


Band Edge

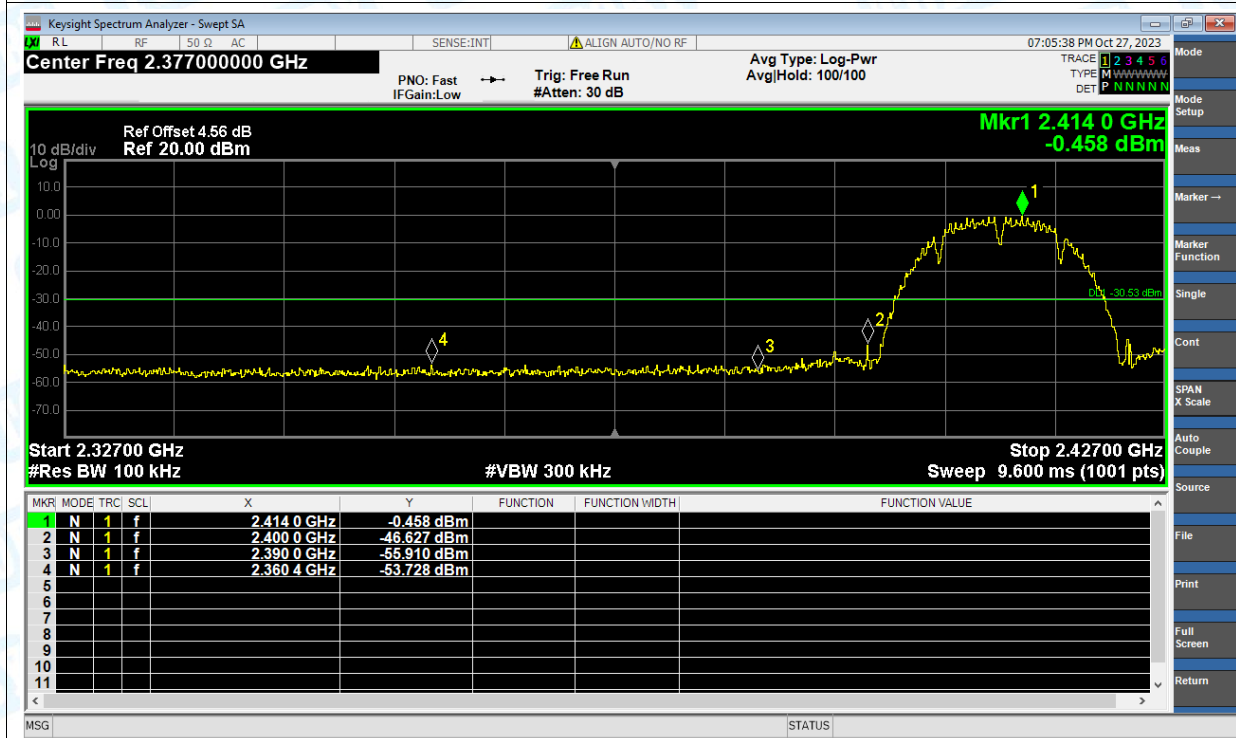
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.2	-30	Pass
NVNT	b	2462	Ant1	-53.57	-30	Pass
NVNT	b	2412	Ant2	-35.61	-30	Pass
NVNT	b	2462	Ant2	-36.03	-30	Pass
NVNT	g	2412	Ant1	-50.4	-30	Pass
NVNT	g	2462	Ant1	-49.02	-30	Pass
NVNT	g	2412	Ant2	-35.55	-30	Pass
NVNT	g	2462	Ant2	-35.58	-30	Pass
NVNT	n(HT20)	2412	Ant1	-49.27	-30	Pass
NVNT	n(HT20)	2412	Ant2	-34.89	-30	Pass
NVNT	n(HT20)	2462	Ant1	-49.98	-30	Pass
NVNT	n(HT20)	2462	Ant2	-37.32	-30	Pass
NVNT	n(HT40)	2422	Ant1	-46.16	-30	Pass
NVNT	n(HT40)	2422	Ant2	-35.34	-30	Pass
NVNT	n(HT40)	2452	Ant1	-45.49	-30	Pass
NVNT	n(HT40)	2452	Ant2	-44.29	-30	Pass

Test Graphs

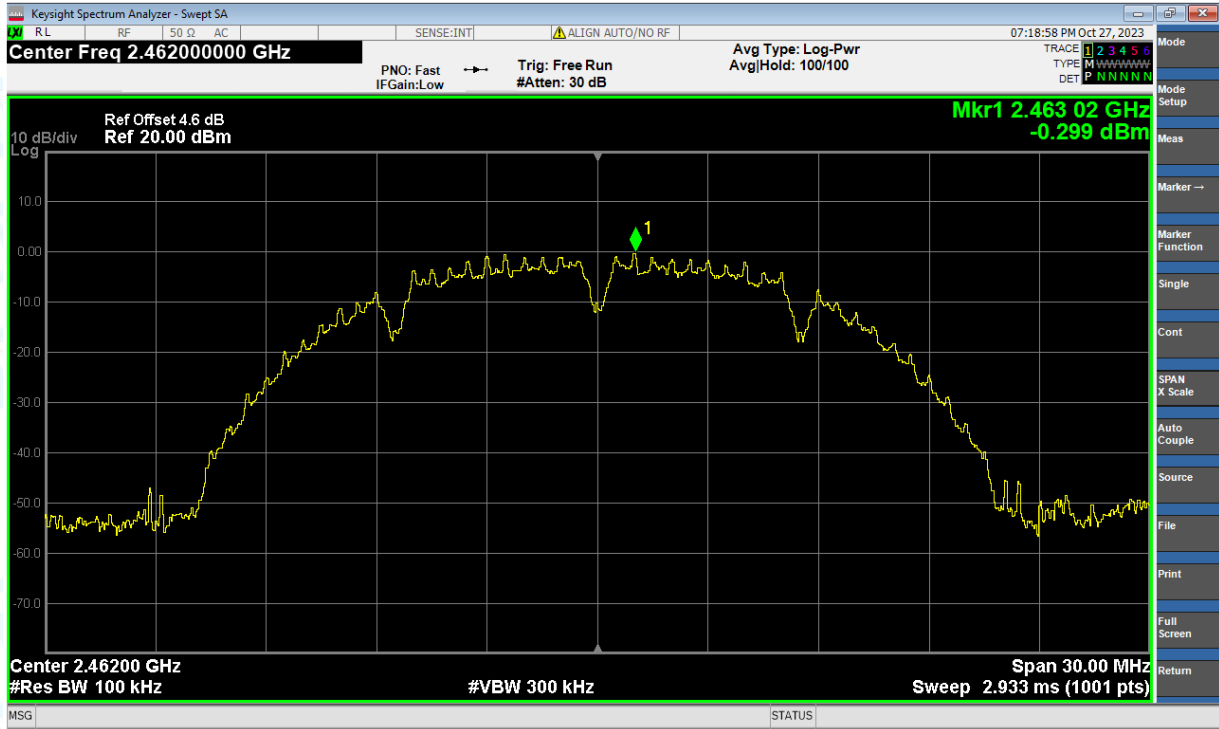
Band Edge NVNT b 2412MHz Ant1 Ref



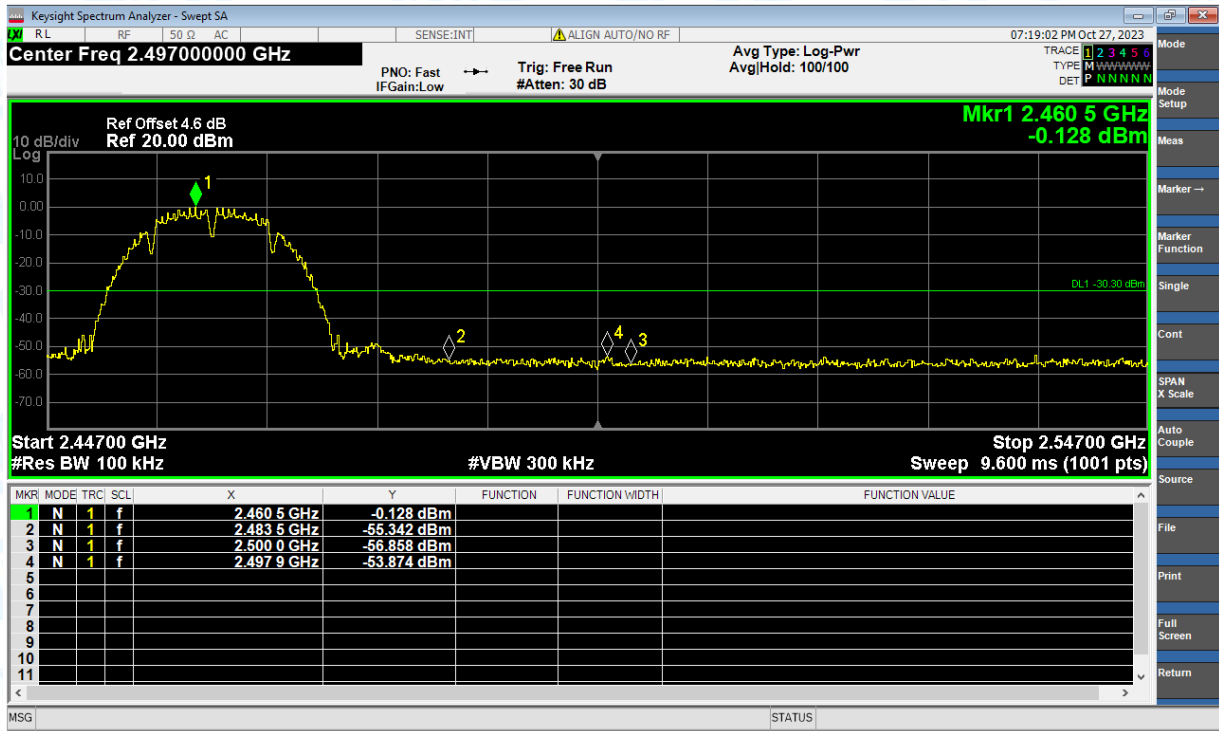
Band Edge NVNT b 2412MHz Ant1 Emission



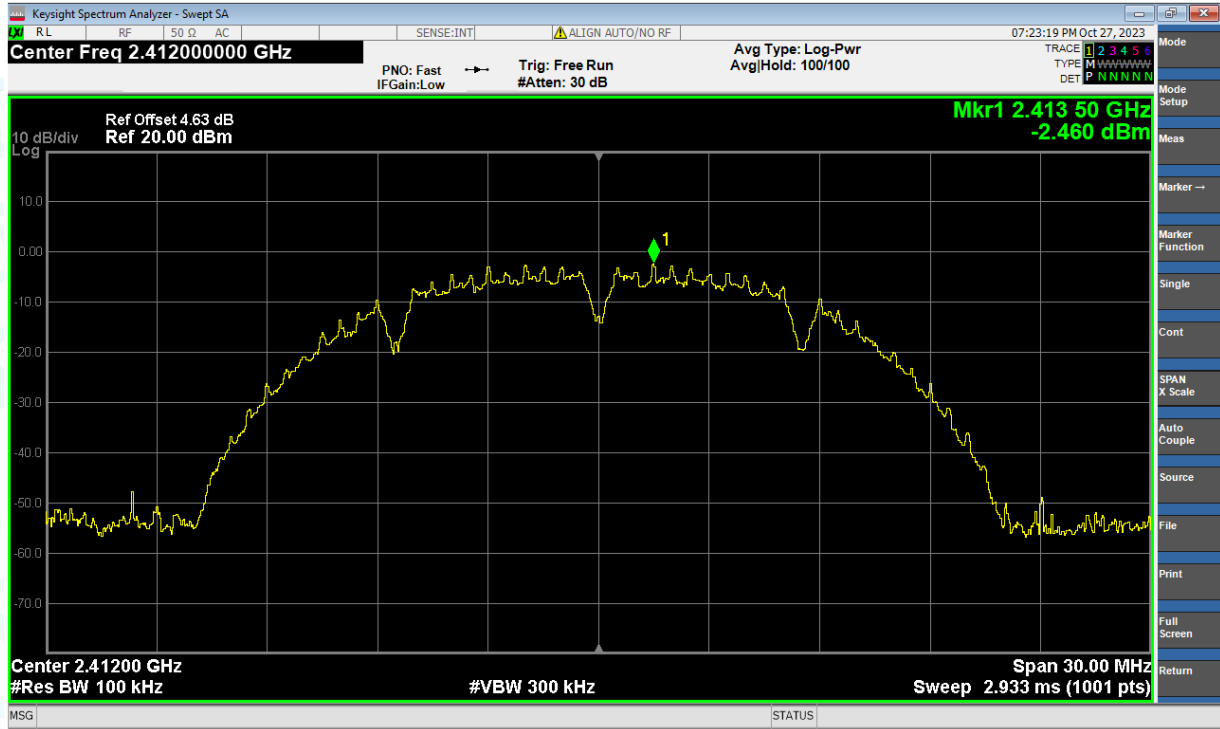
Band Edge NVNT b 2462MHz Ant1 Ref



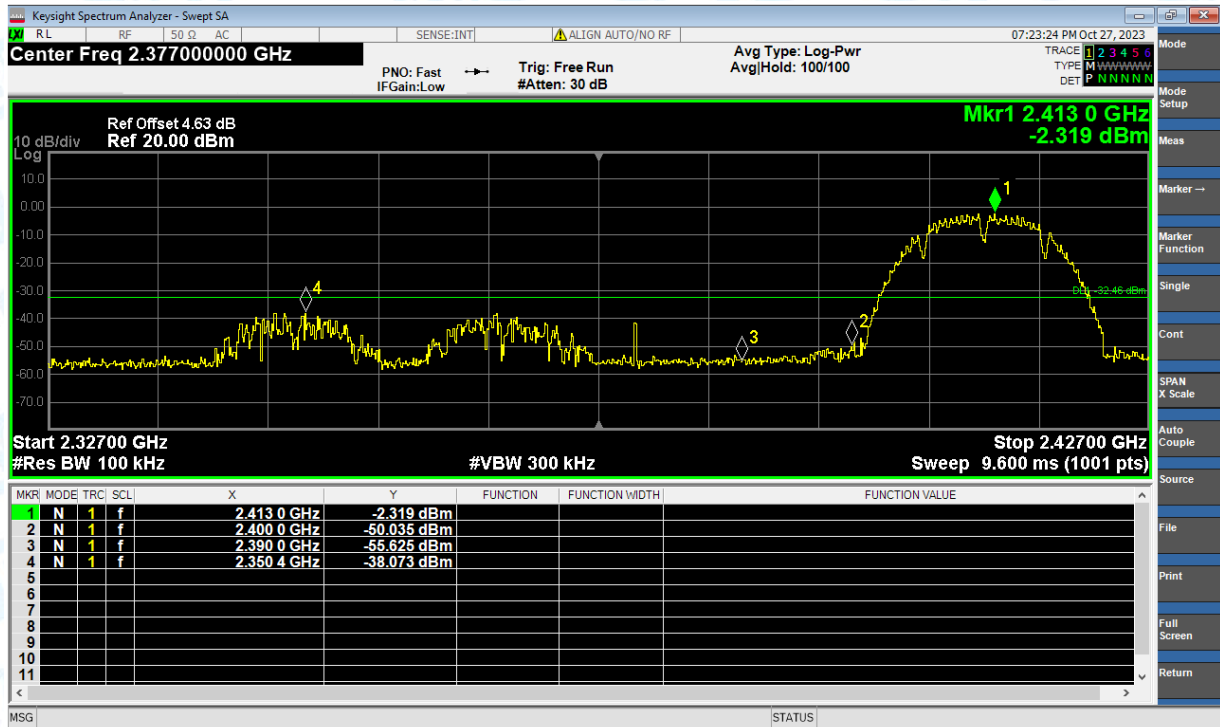
Band Edge NVNT b 2462MHz Ant1 Emission



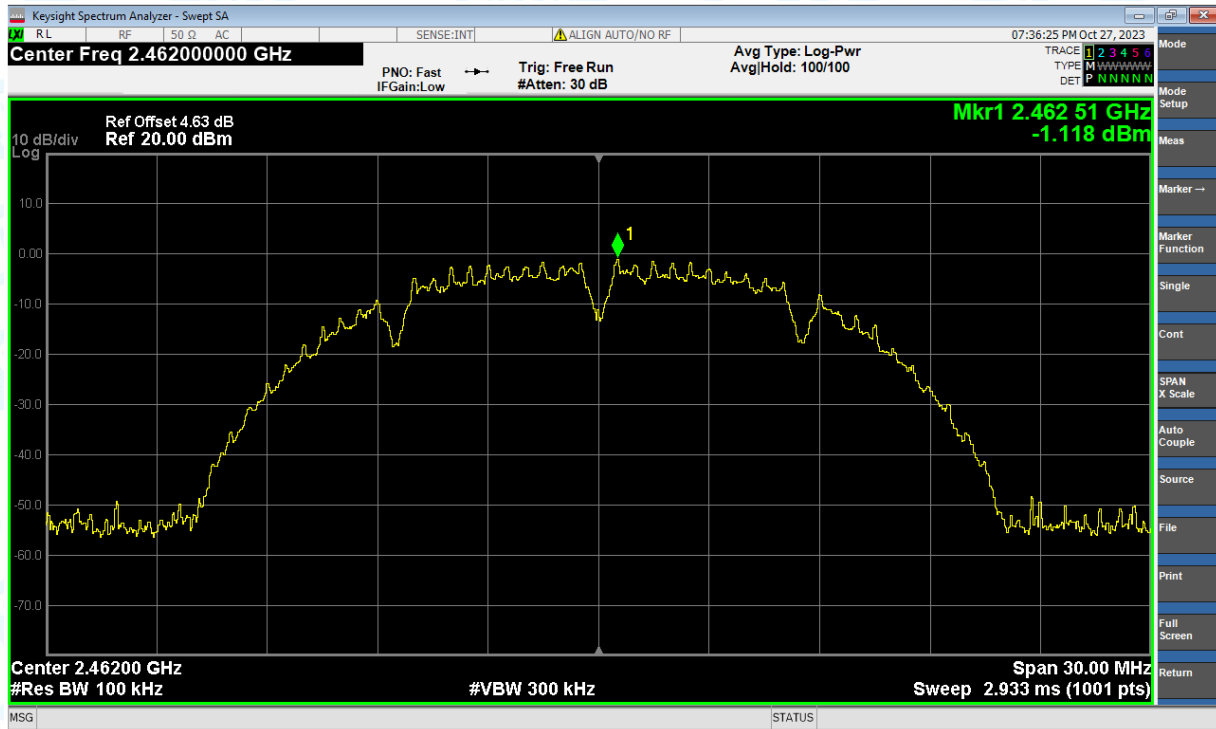
Band Edge NVNT b 2412MHz Ant2 Ref



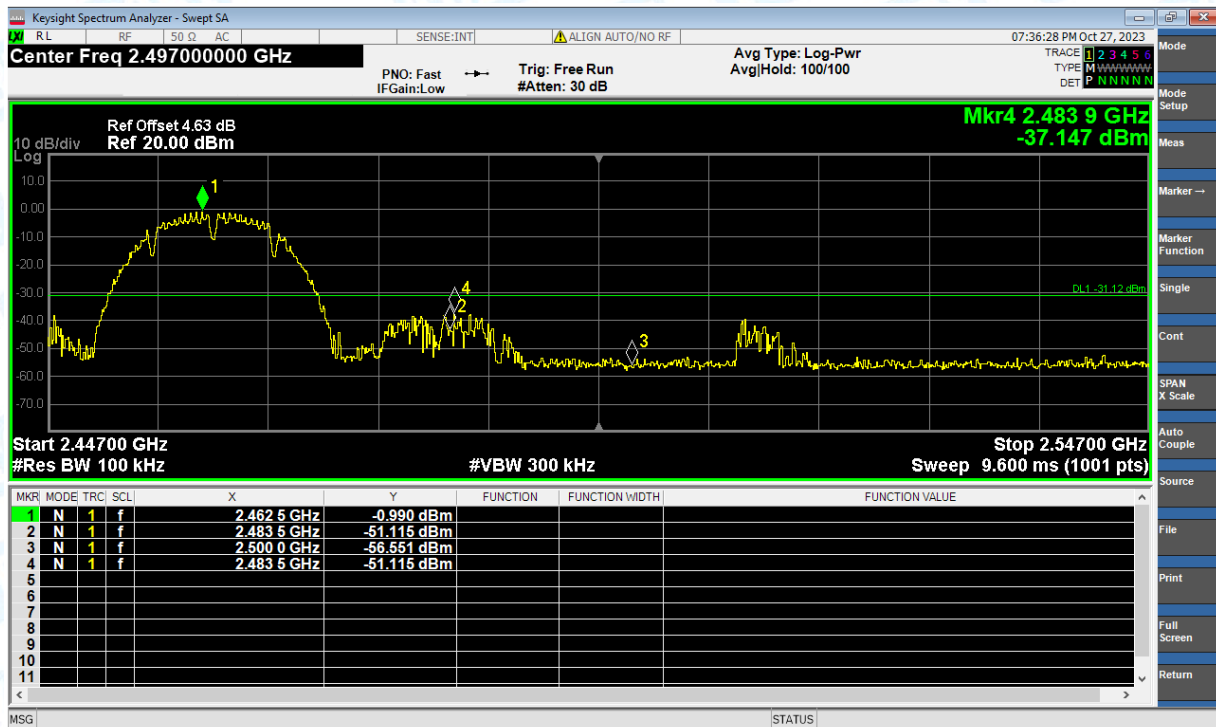
Band Edge NVNT b 2412MHz Ant2 Emission



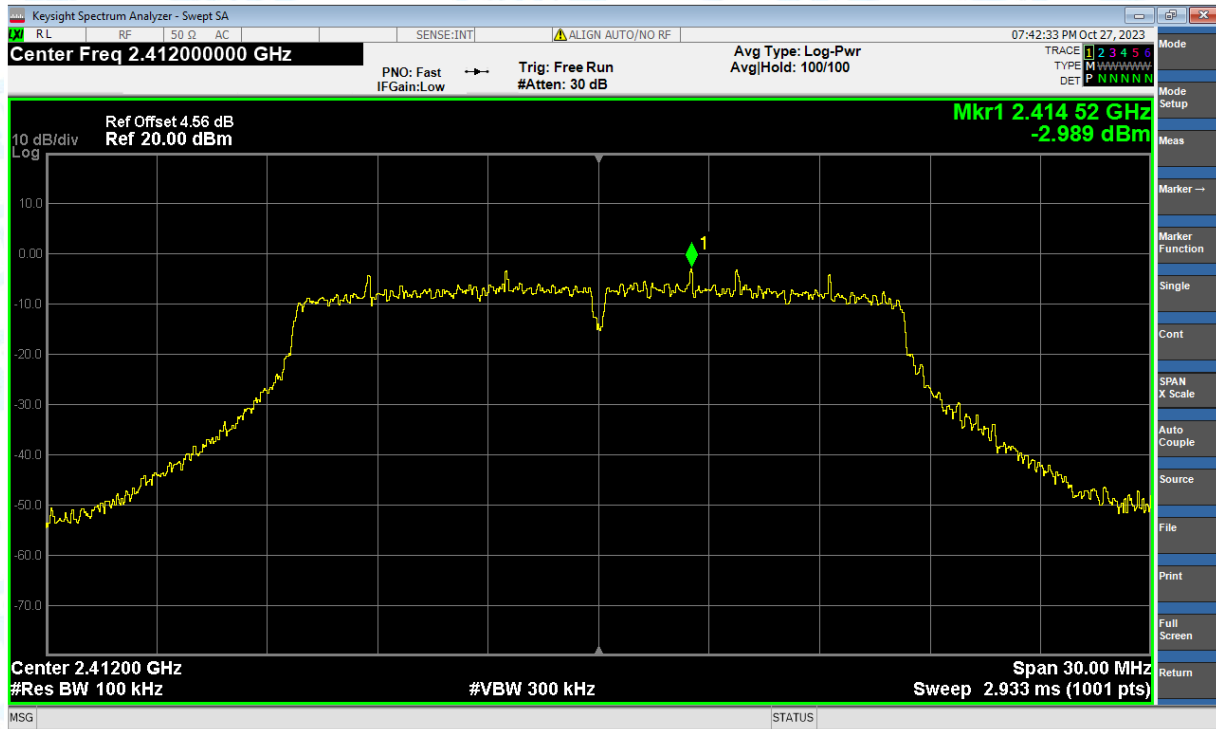
Band Edge NVNT b 2462MHz Ant2 Ref



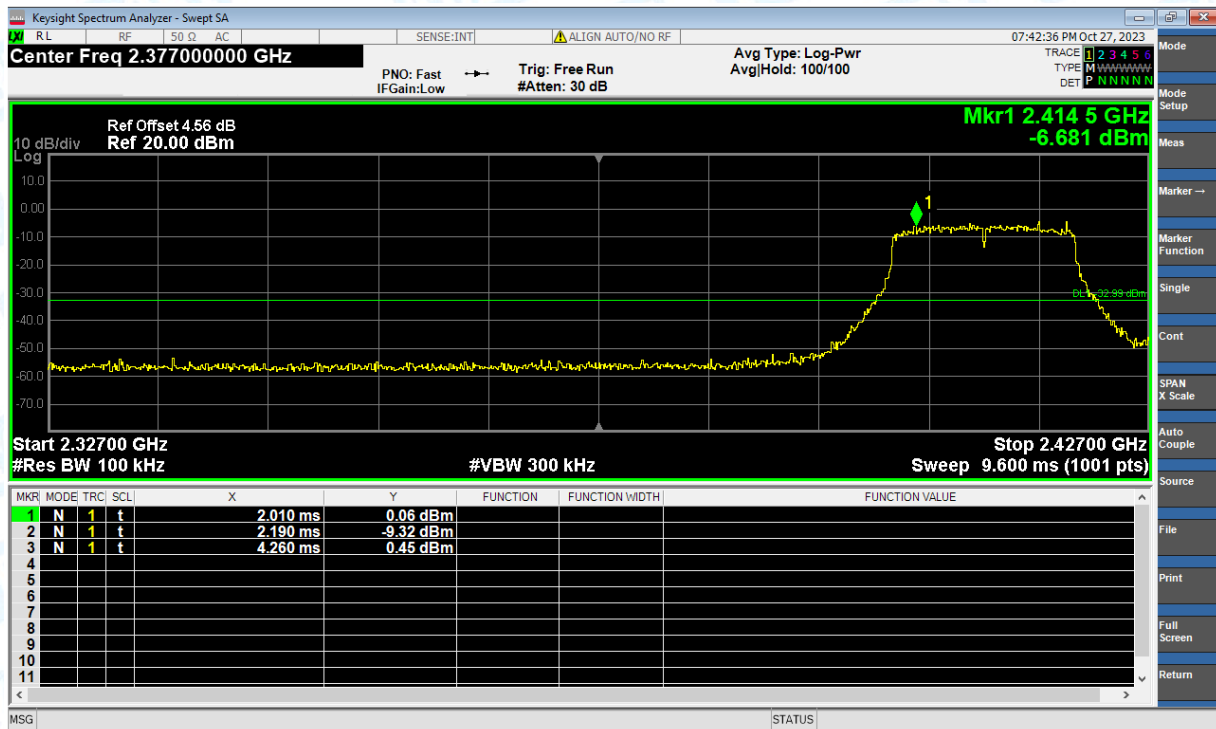
Band Edge NVNT b 2462MHz Ant2 Emission



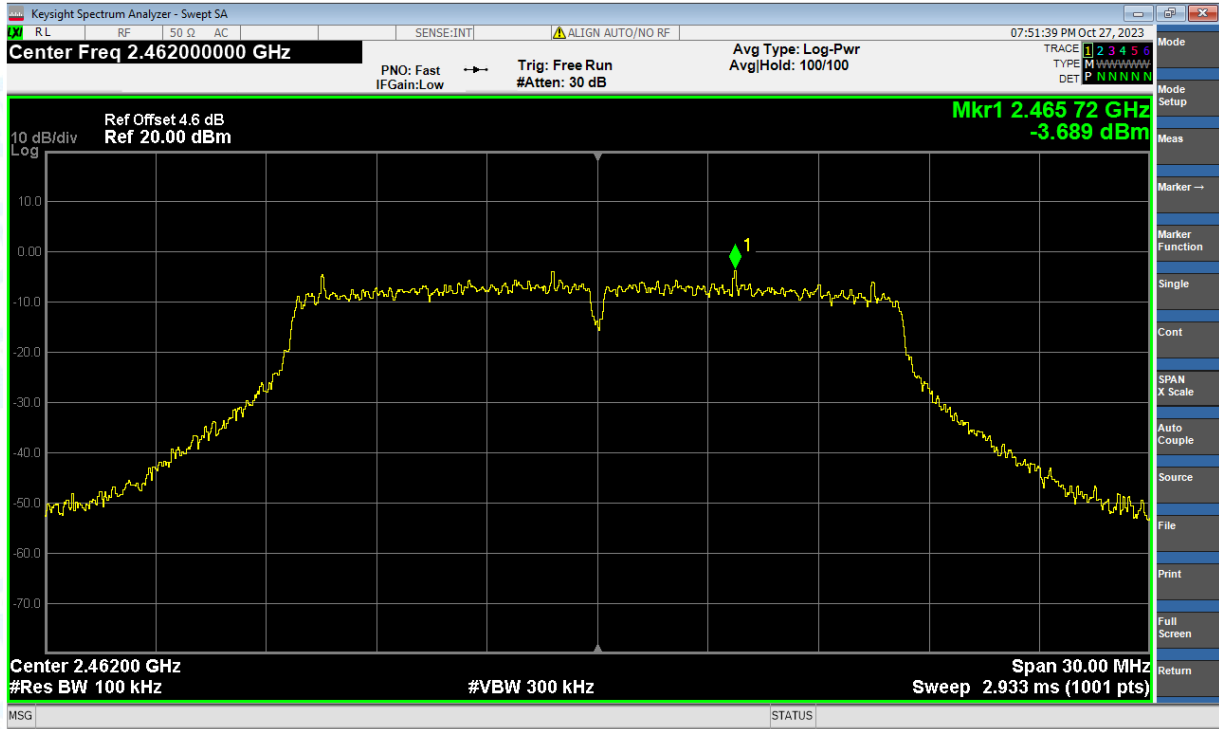
Band Edge NVNT g 2412MHz Ant1 Ref



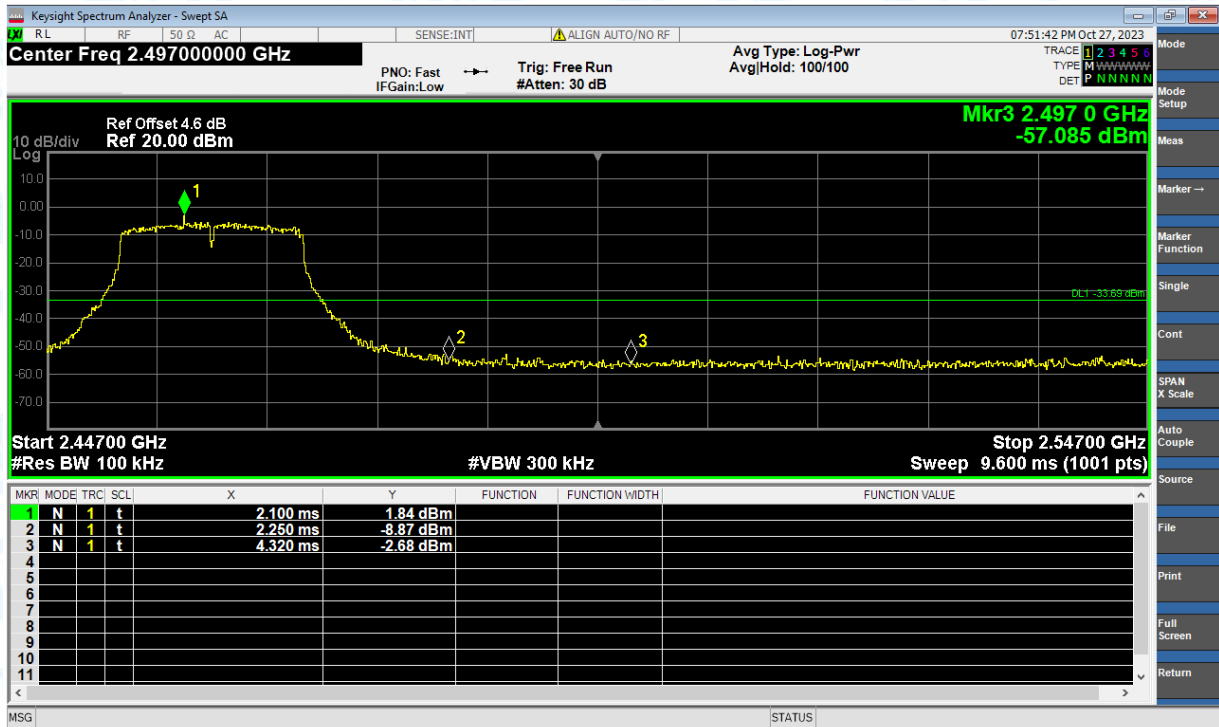
Band Edge NVNT g 2412MHz Ant1 Emission



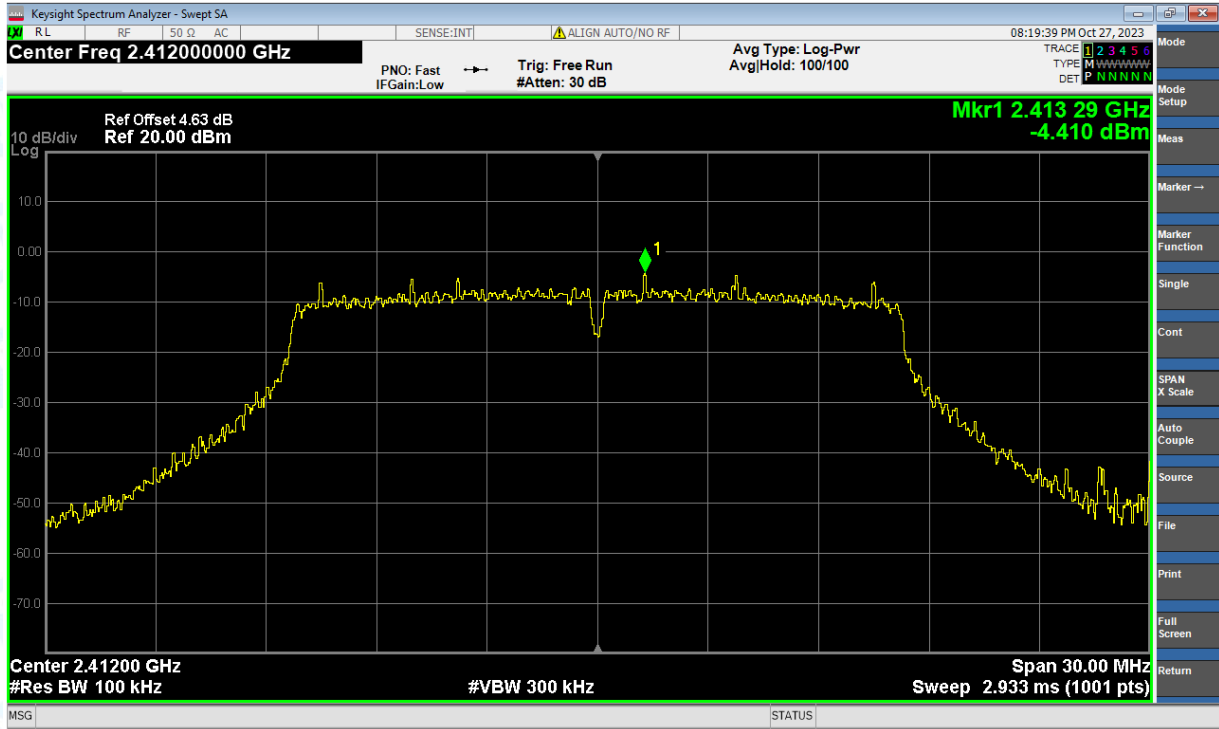
Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant2 Ref



Band Edge NVNT g 2412MHz Ant2 Emission

