

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Projector
Test Model:	HY300 Pro
Sample ID:	HC-C-202603-0411-01-01
Environmental Conditions	
Temperature:	25.2℃
Relative Humidity:	48.6%
Test Voltage:	AC 120V
Test Engineer:	Kael Li
Note: For a more detailed features description, please refer to the report TBR-C-202603-0411-31 The report only show the worst case data.	

Contents

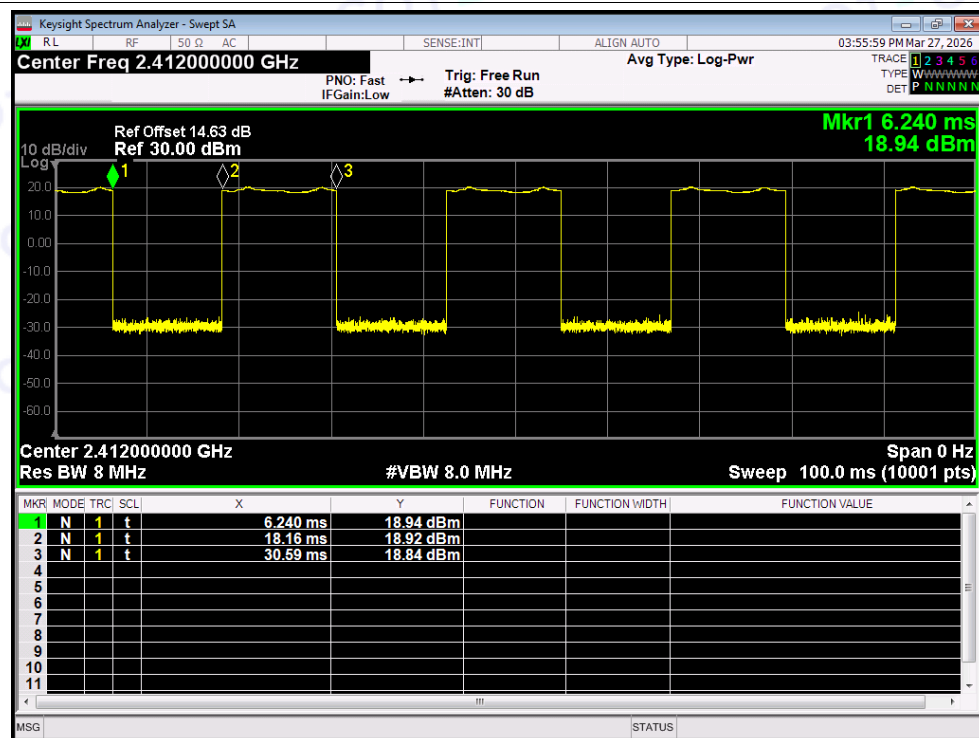
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1. Duty Cycle

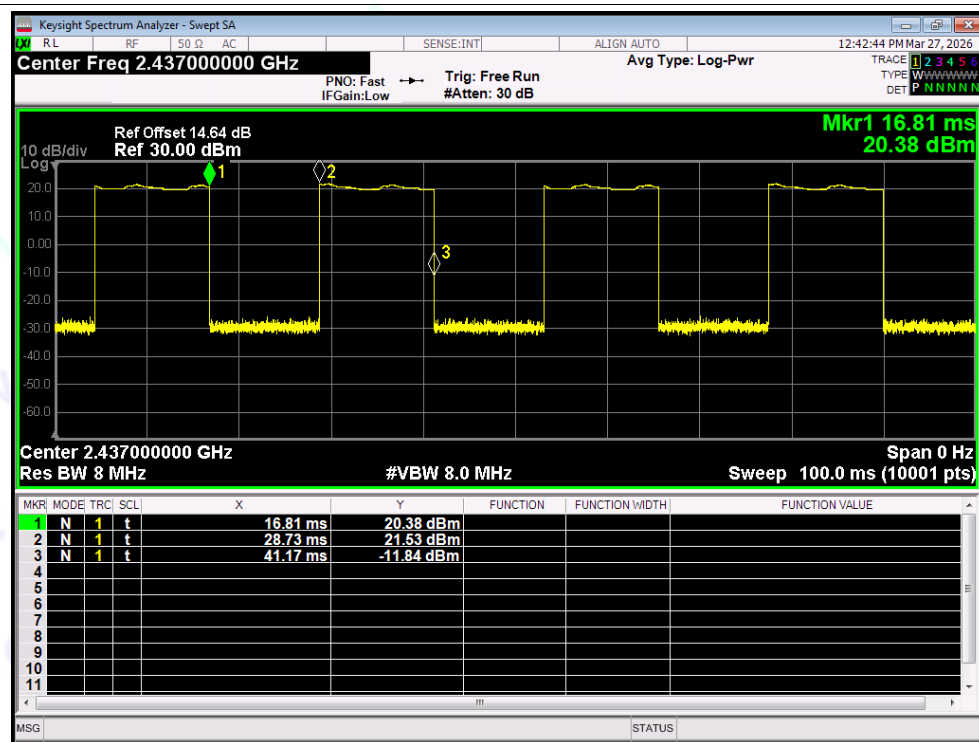
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	51.05	2.92	0.08
NVNT	b	2437	Ant1	51.07	2.92	0.08
NVNT	b	2462	Ant1	51.05	2.92	0.08
NVNT	g	2412	Ant1	58.78	2.31	0.18
NVNT	g	2437	Ant1	58.78	2.31	0.18
NVNT	g	2462	Ant1	58.67	2.32	0.18
NVNT	n(HT20)	2412	Ant1	57.6	2.4	0.19
NVNT	n(HT20)	2437	Ant1	57.54	2.4	0.19
NVNT	n(HT20)	2462	Ant1	57.49	2.4	0.19
NVNT	n(HT40)	2422	Ant1	56.59	2.47	0.33
NVNT	n(HT40)	2437	Ant1	56.61	2.47	0.33
NVNT	n(HT40)	2452	Ant1	56.59	2.47	0.33

Test Graphs

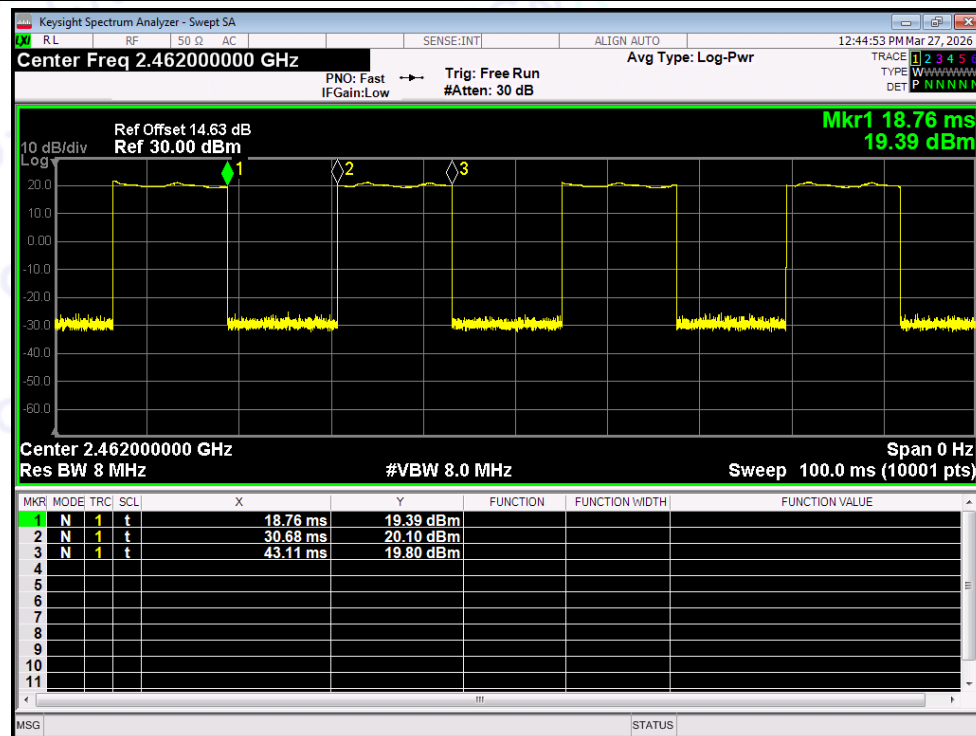
Duty Cycle NVNT b 2412MHz Ant1



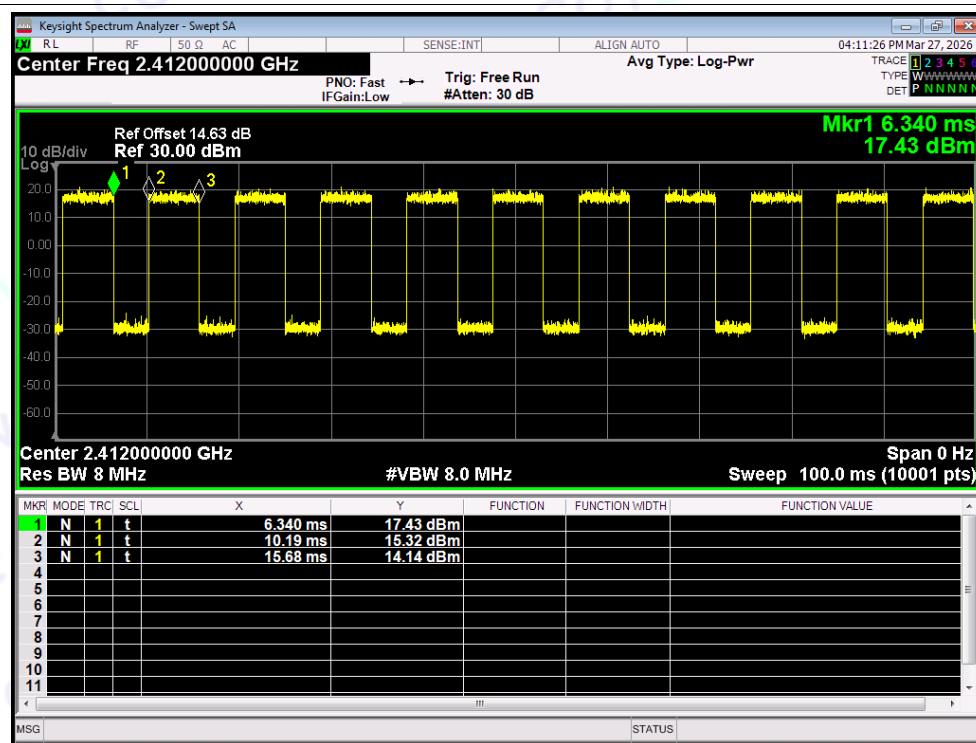
Duty Cycle NVNT b 2437MHz Ant1



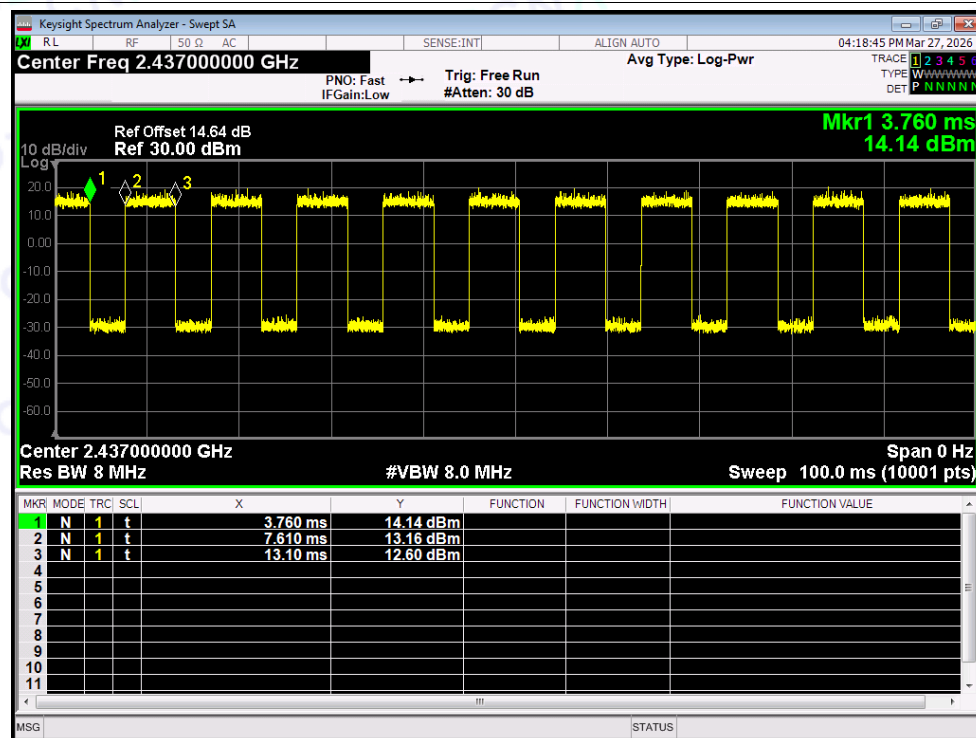
Duty Cycle NVNT b 2462MHz Ant1



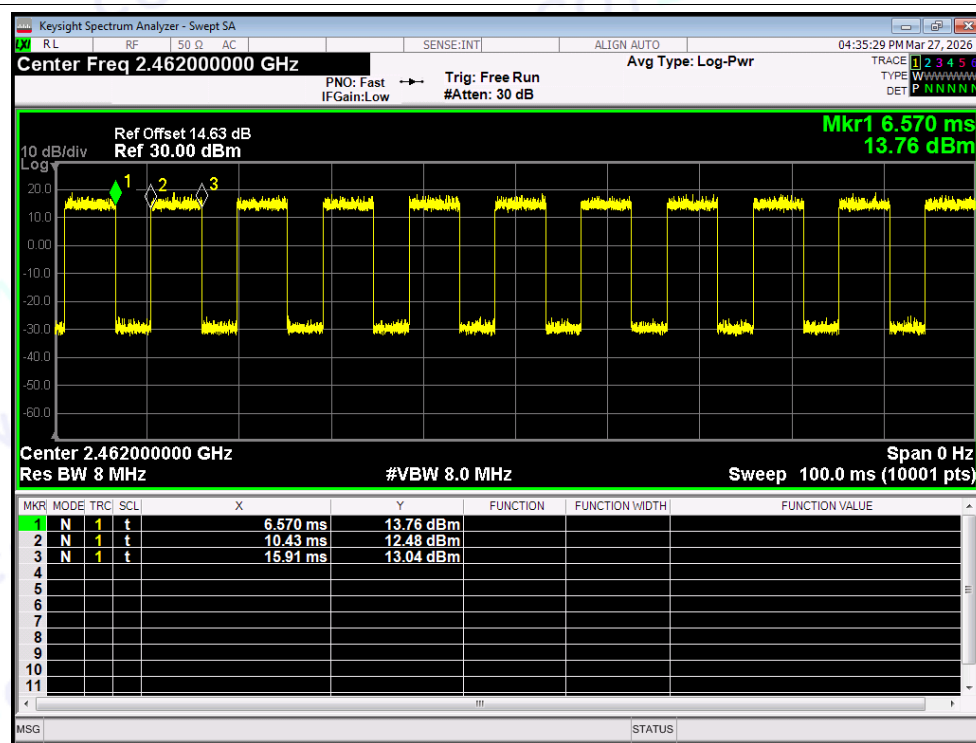
Duty Cycle NVNT g 2412MHz Ant1



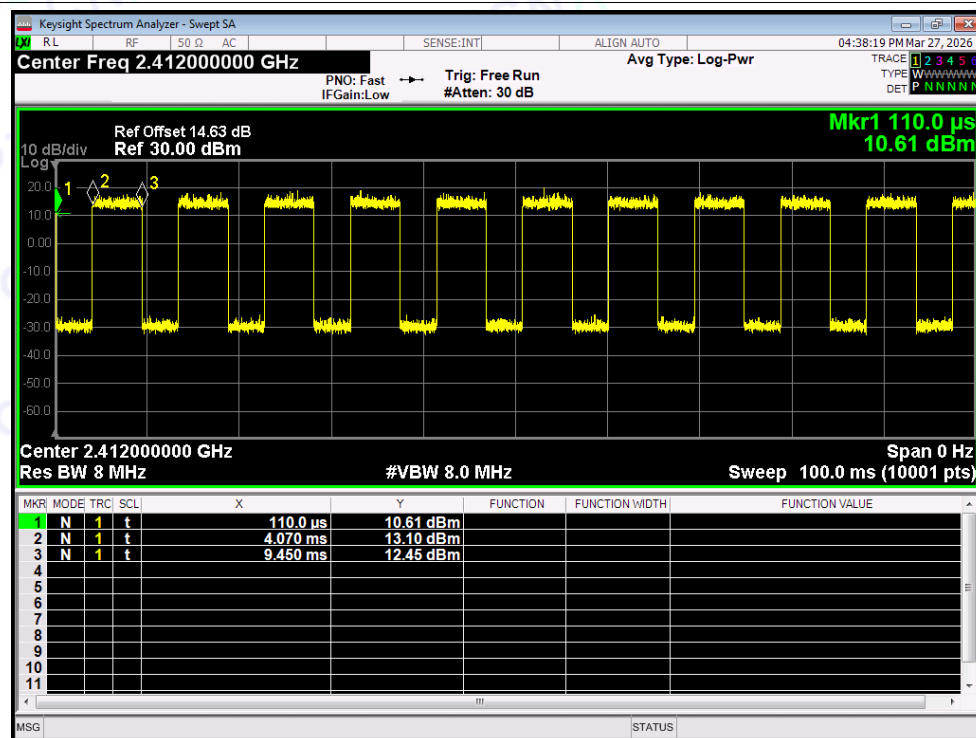
Duty Cycle NVNT g 2437MHz Ant1



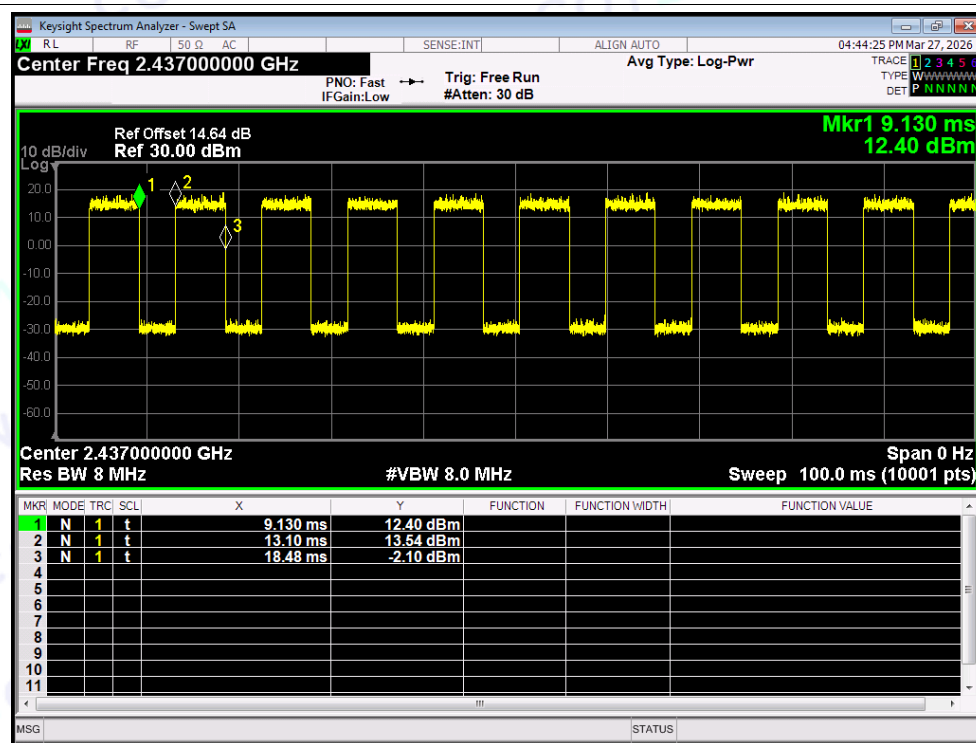
Duty Cycle NVNT g 2462MHz Ant1



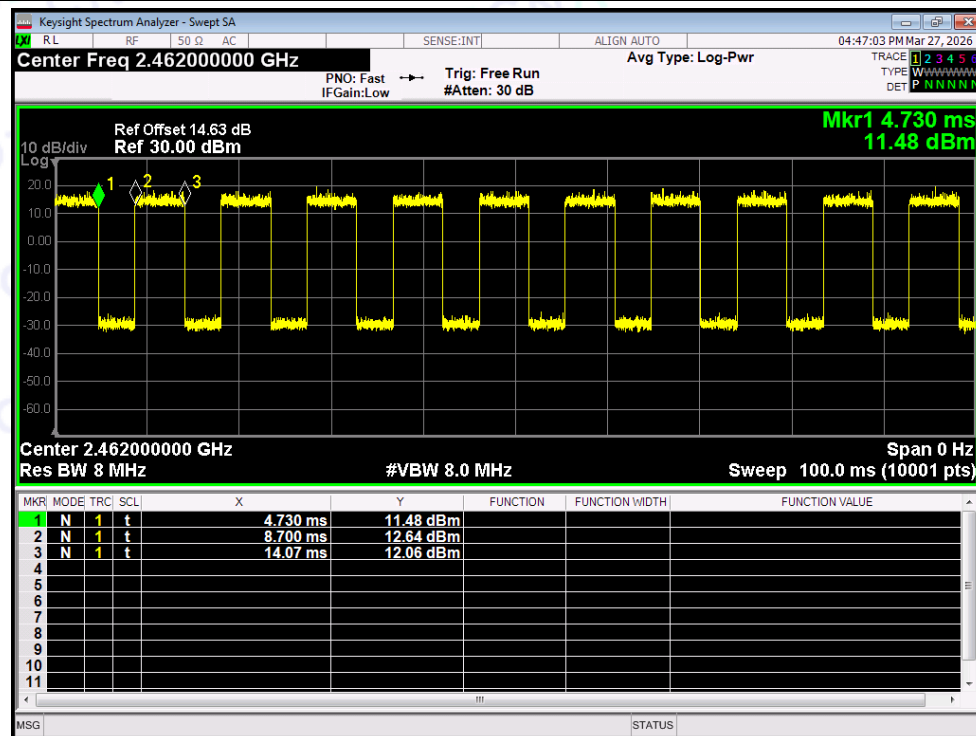
Duty Cycle NVNT n(HT20) 2412MHz Ant1



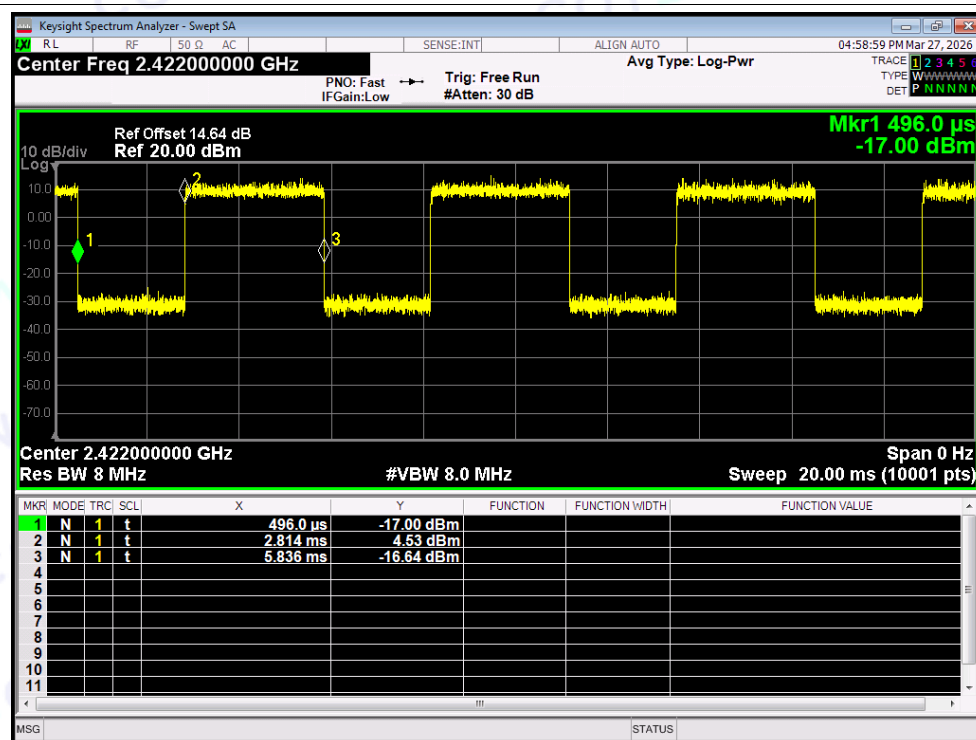
Duty Cycle NVNT n(HT20) 2437MHz Ant1



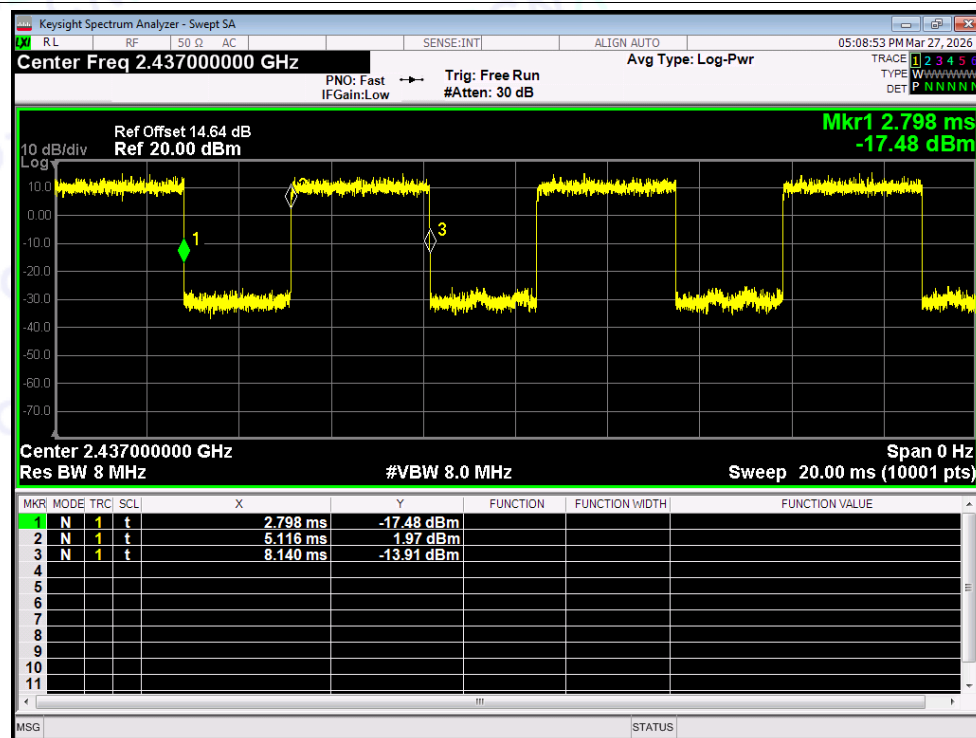
Duty Cycle NVNT n(HT20) 2462MHz Ant1



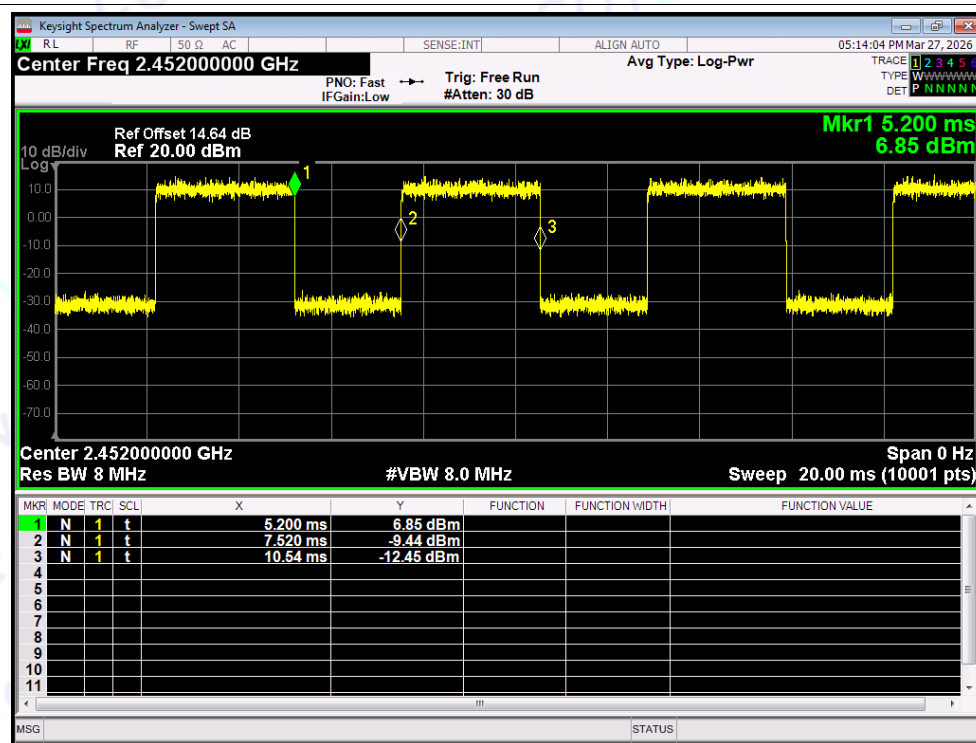
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

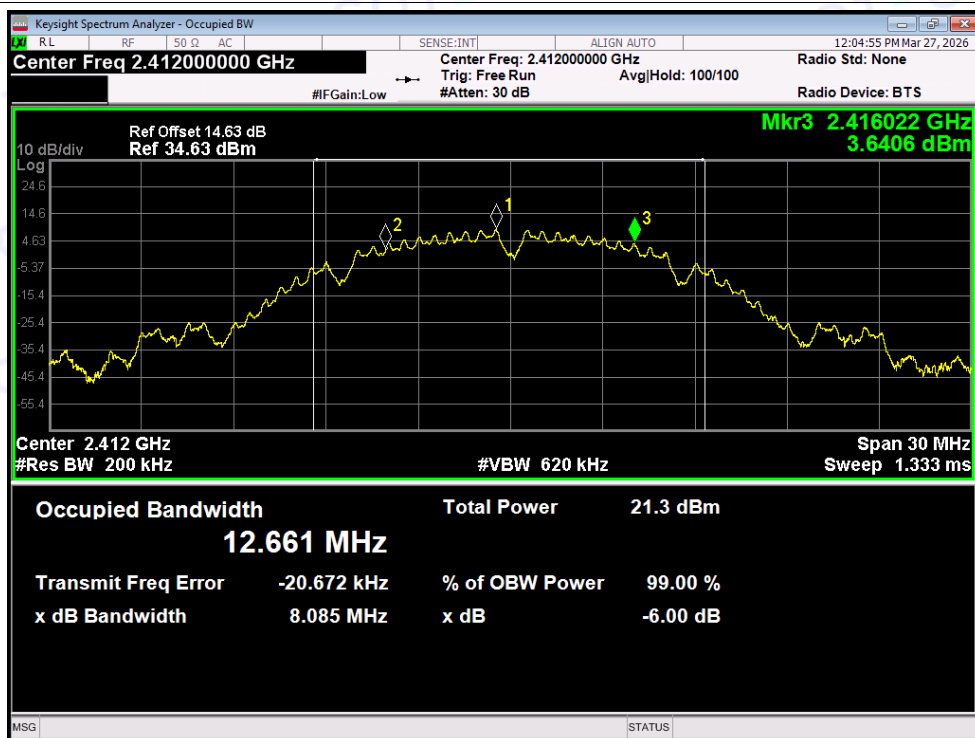
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.21	2.92	16.13	30	Pass
NVNT	b	2437	Ant1	13.27	2.92	16.19	30	Pass
NVNT	b	2462	Ant1	13.28	2.92	16.2	30	Pass
NVNT	g	2412	Ant1	10.68	2.31	12.99	30	Pass
NVNT	g	2437	Ant1	10.78	2.31	13.09	30	Pass
NVNT	g	2462	Ant1	10.57	2.32	12.89	30	Pass
NVNT	n(HT20)	2412	Ant1	10.62	2.4	13.02	30	Pass
NVNT	n(HT20)	2437	Ant1	10.7	2.4	13.1	30	Pass
NVNT	n(HT20)	2462	Ant1	10.5	2.4	12.9	30	Pass
NVNT	n(HT40)	2422	Ant1	10.55	2.47	13.02	30	Pass
NVNT	n(HT40)	2437	Ant1	10.59	2.47	13.06	30	Pass
NVNT	n(HT40)	2452	Ant1	10.61	2.47	13.08	30	Pass

3. -6dB Bandwidth

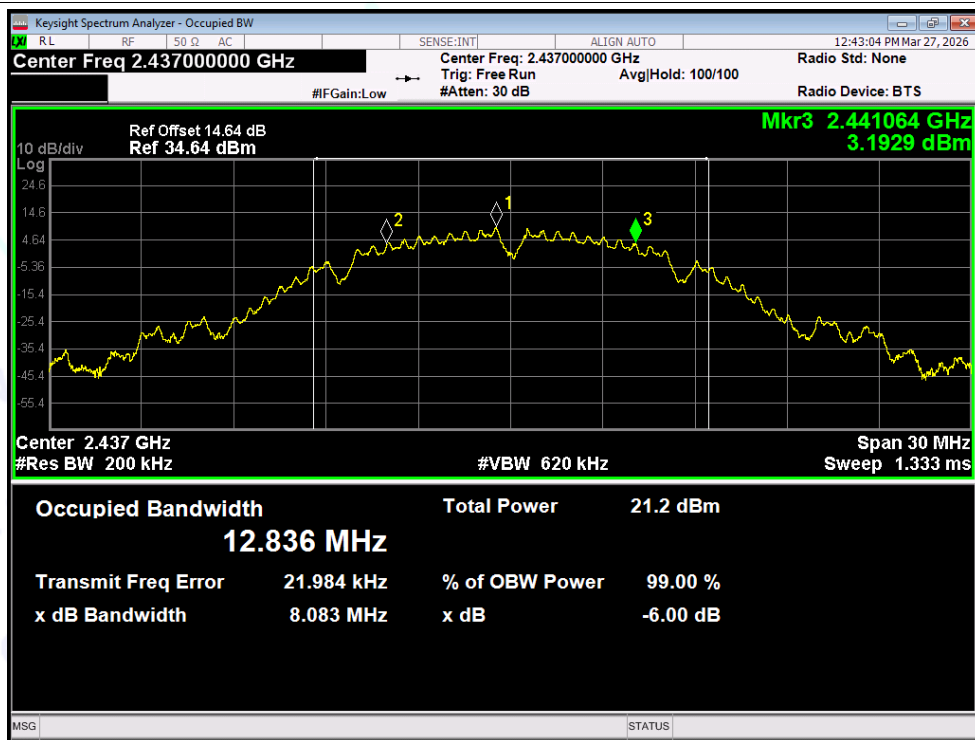
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.08	0.5	Pass
NVNT	b	2437	Ant1	8.08	0.5	Pass
NVNT	b	2462	Ant1	8.59	0.5	Pass
NVNT	g	2412	Ant1	16.28	0.5	Pass
NVNT	g	2437	Ant1	16.31	0.5	Pass
NVNT	g	2462	Ant1	15.99	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.29	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.47	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.29	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.32	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.22	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.44	0.5	Pass

Test Graphs

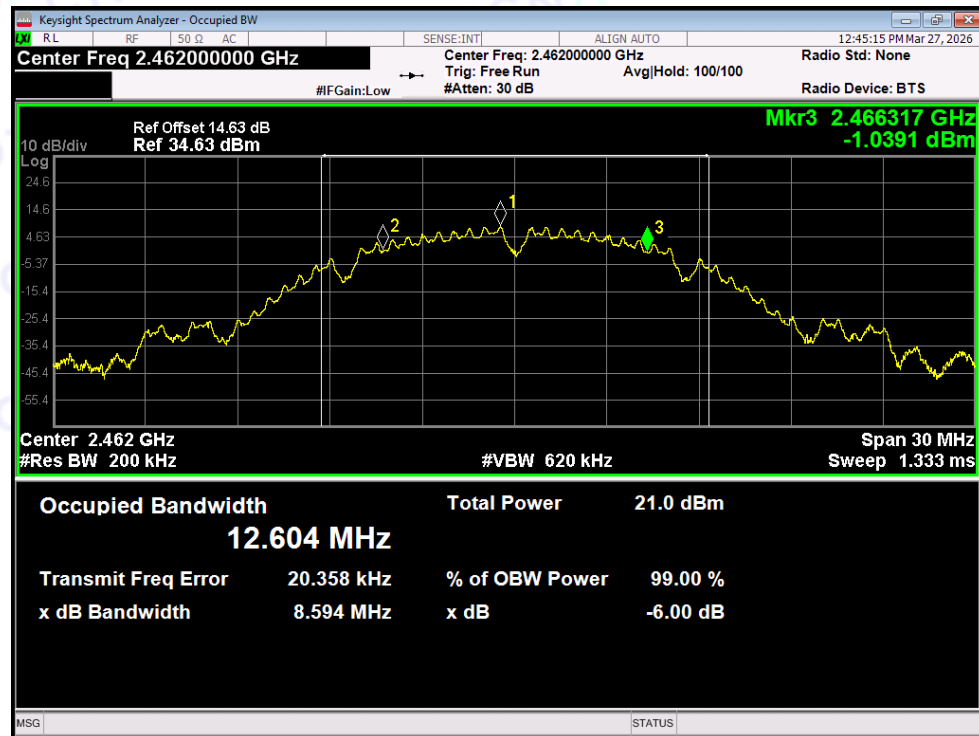
-6dB Bandwidth NVNT b 2412MHz Ant1



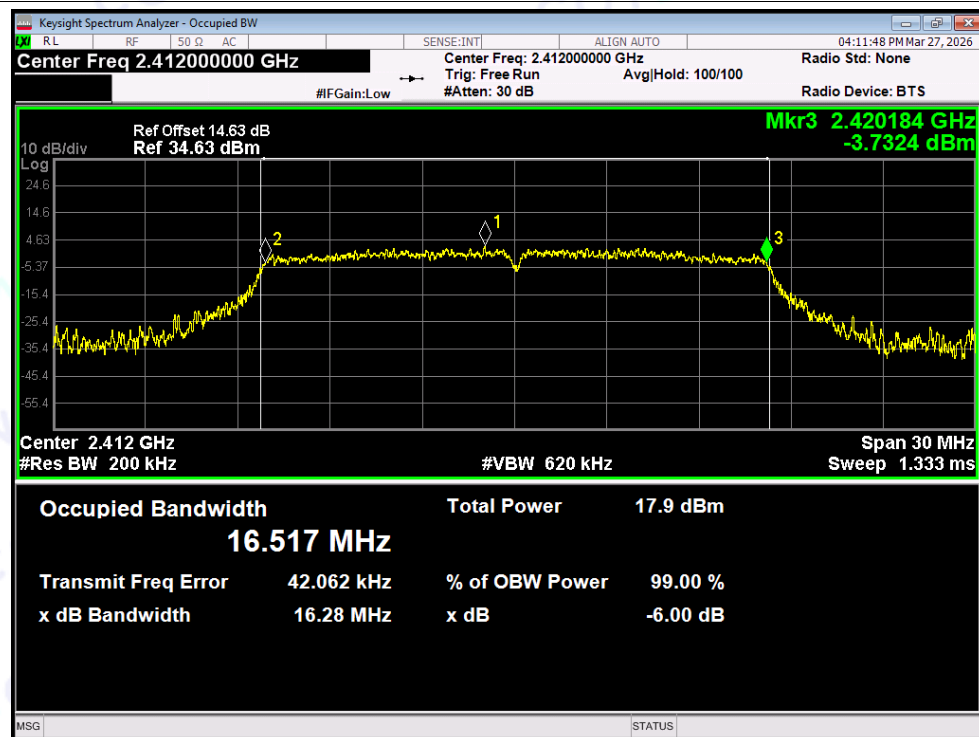
-6dB Bandwidth NVNT b 2437MHz Ant1



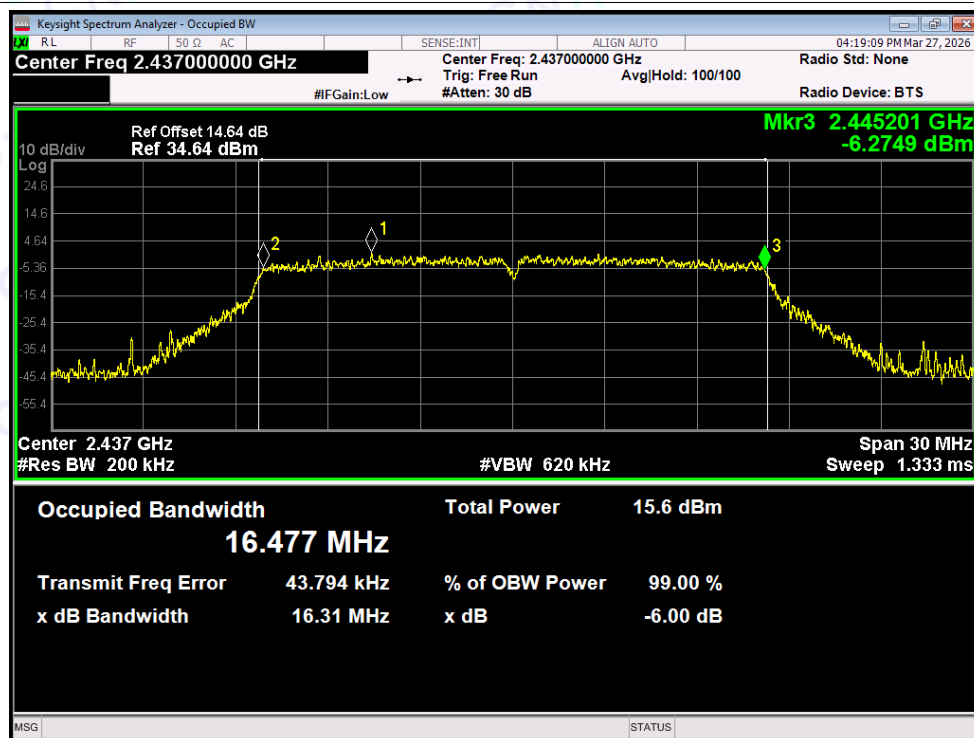
-6dB Bandwidth NVNT b 2462MHz Ant1



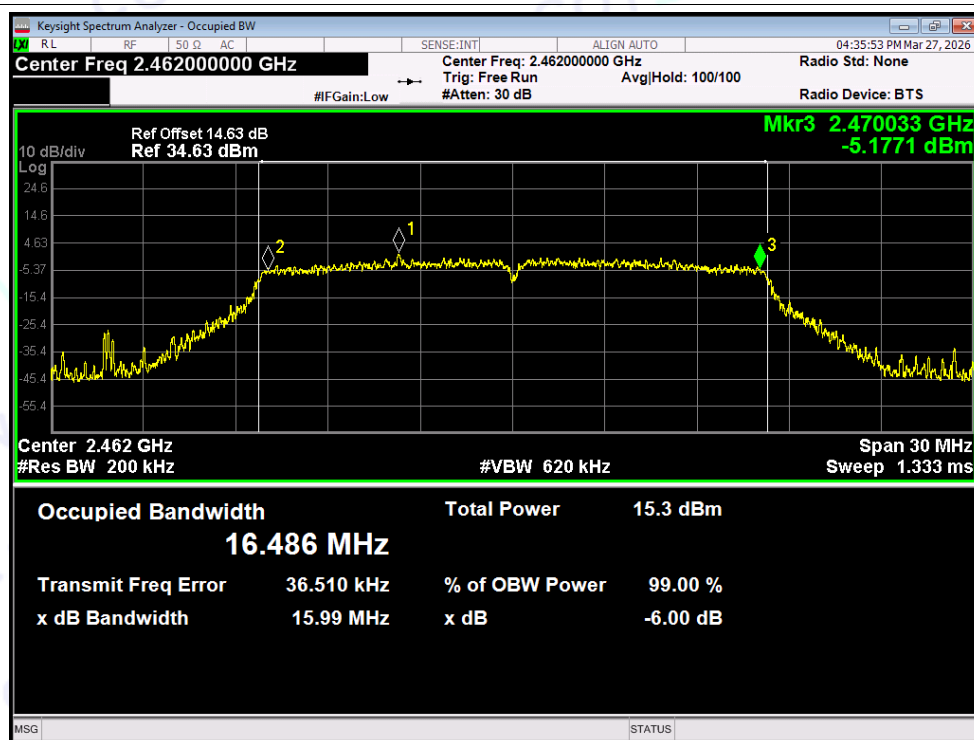
-6dB Bandwidth NVNT g 2412MHz Ant1



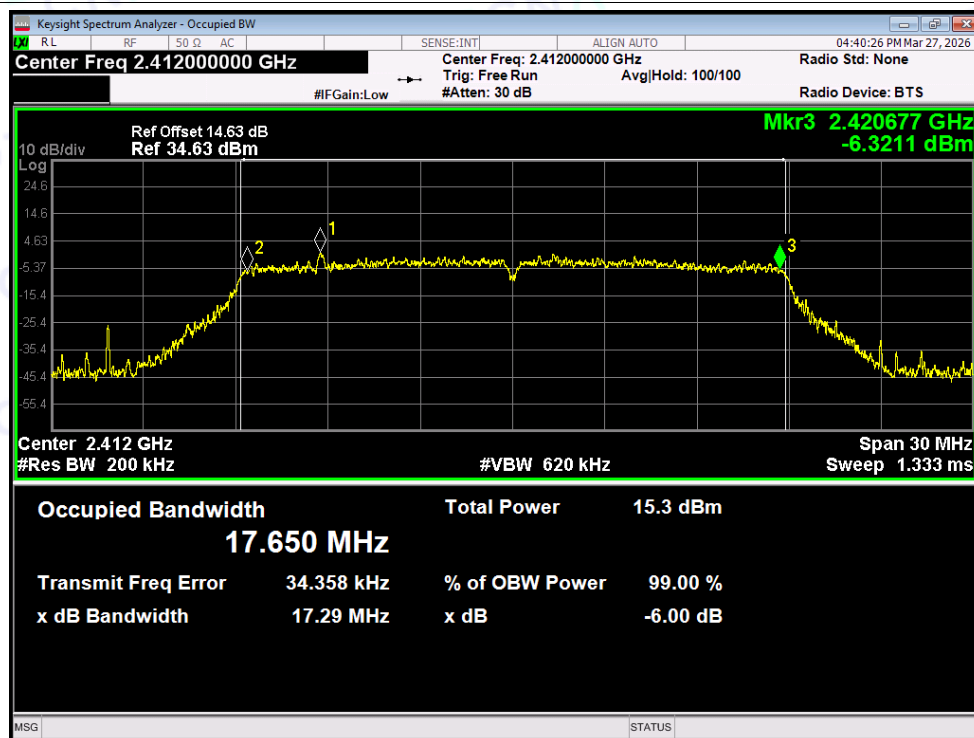
-6dB Bandwidth NVNT g 2437MHz Ant1



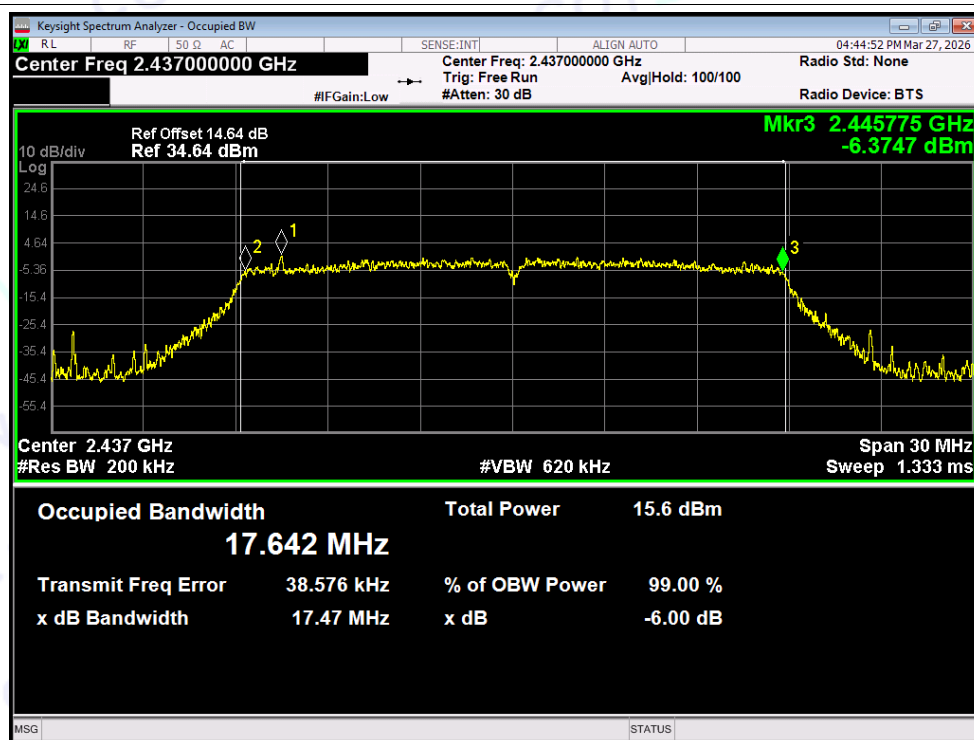
-6dB Bandwidth NVNT g 2462MHz Ant1



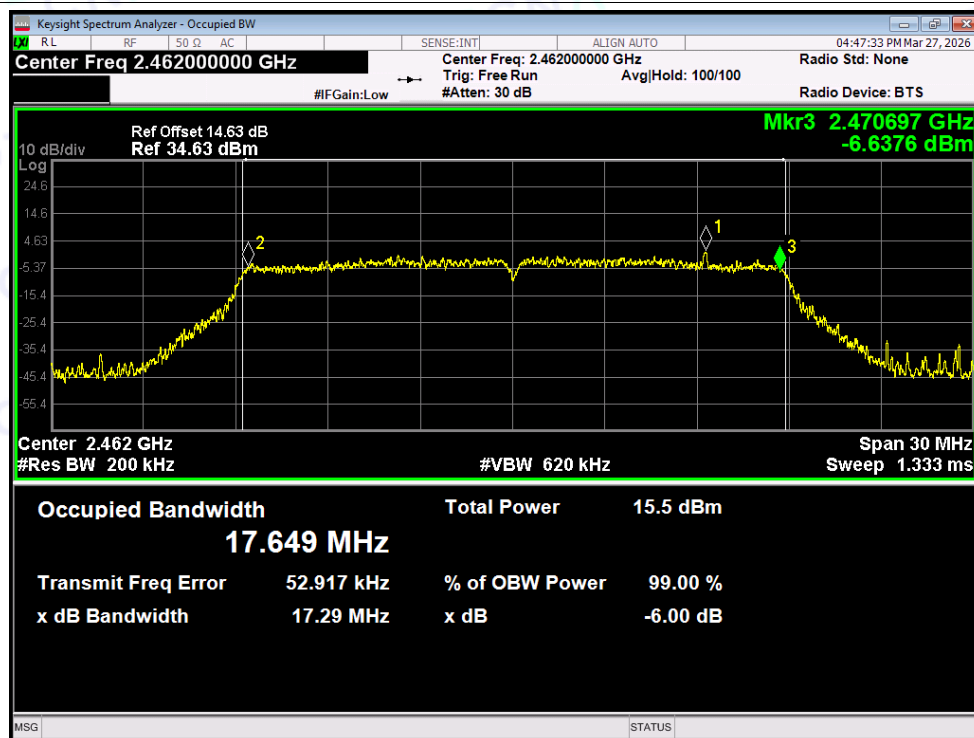
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



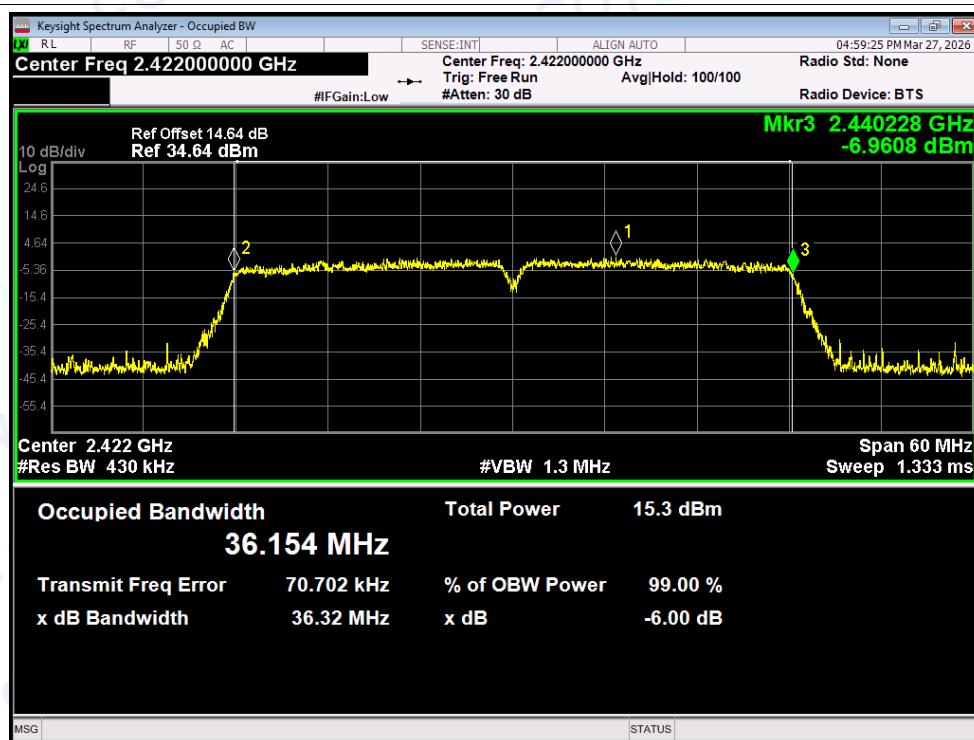
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



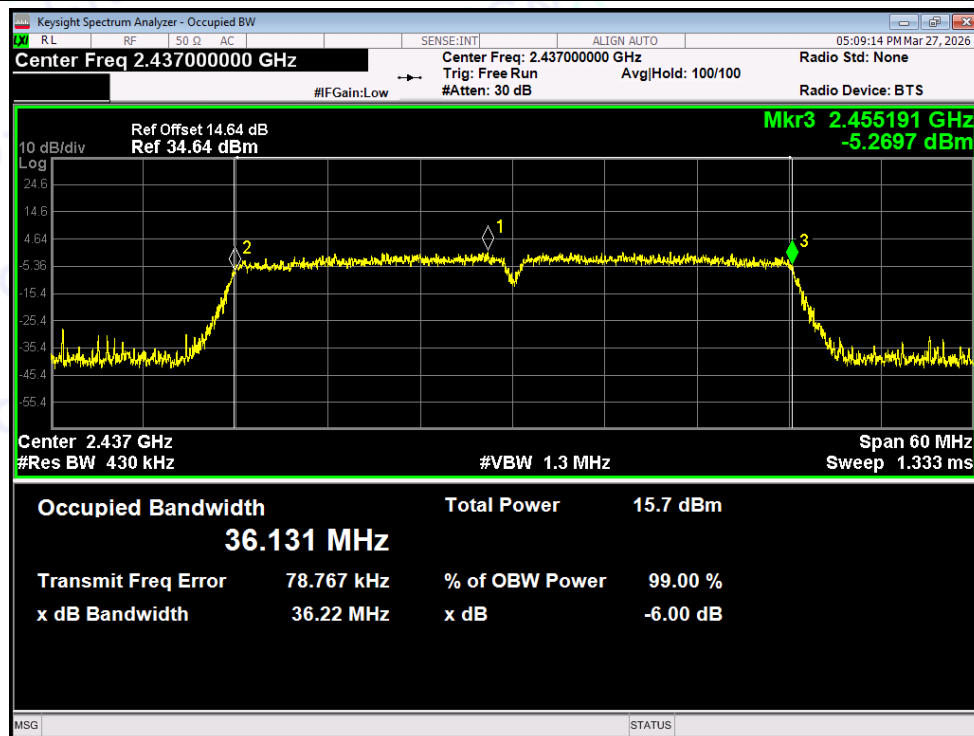
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



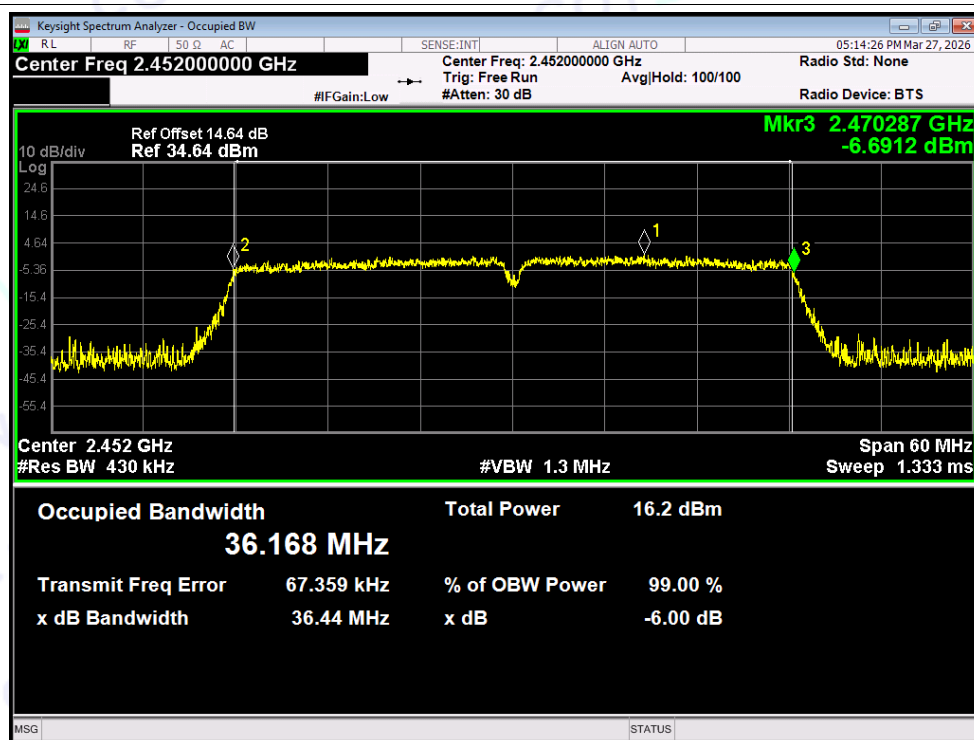
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

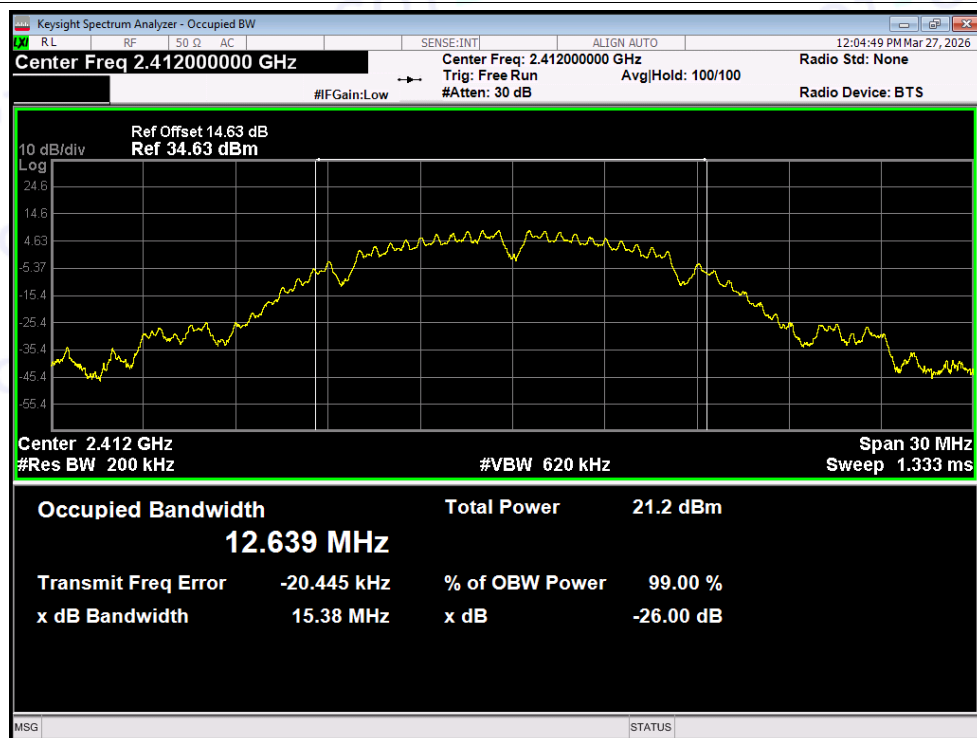


4. Occupied Channel Bandwidth

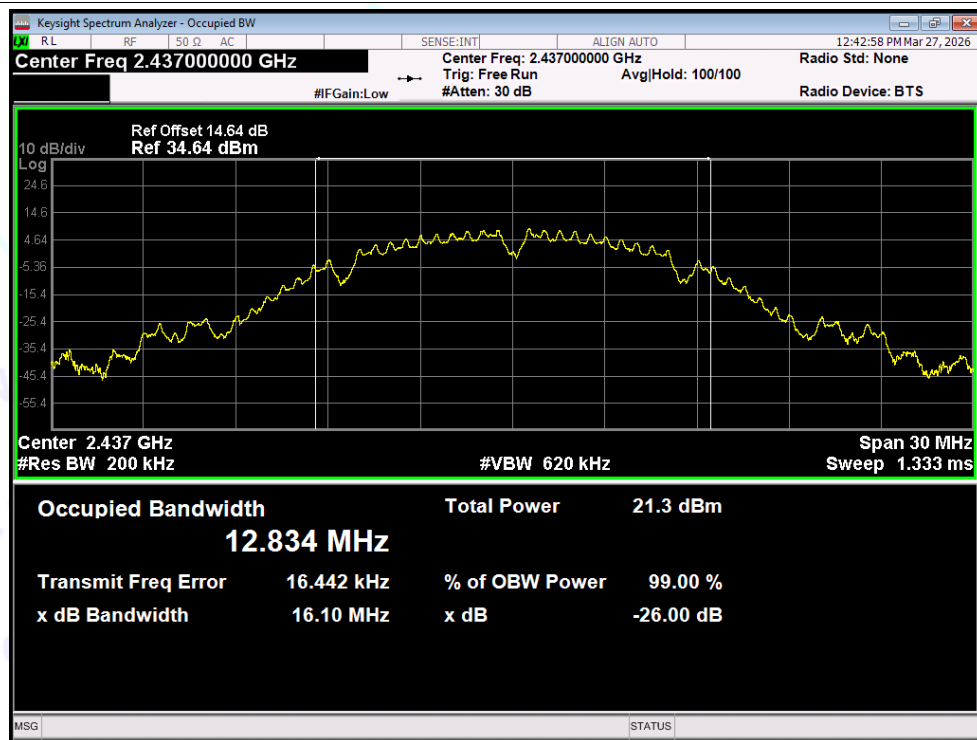
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.639
NVNT	b	2437	Ant1	12.834
NVNT	b	2462	Ant1	12.616
NVNT	g	2412	Ant1	16.476
NVNT	g	2437	Ant1	16.479
NVNT	g	2462	Ant1	16.494
NVNT	n(HT20)	2412	Ant1	17.643
NVNT	n(HT20)	2437	Ant1	17.629
NVNT	n(HT20)	2462	Ant1	17.632
NVNT	n(HT40)	2422	Ant1	36.143
NVNT	n(HT40)	2437	Ant1	36.154
NVNT	n(HT40)	2452	Ant1	36.108

Test Graphs

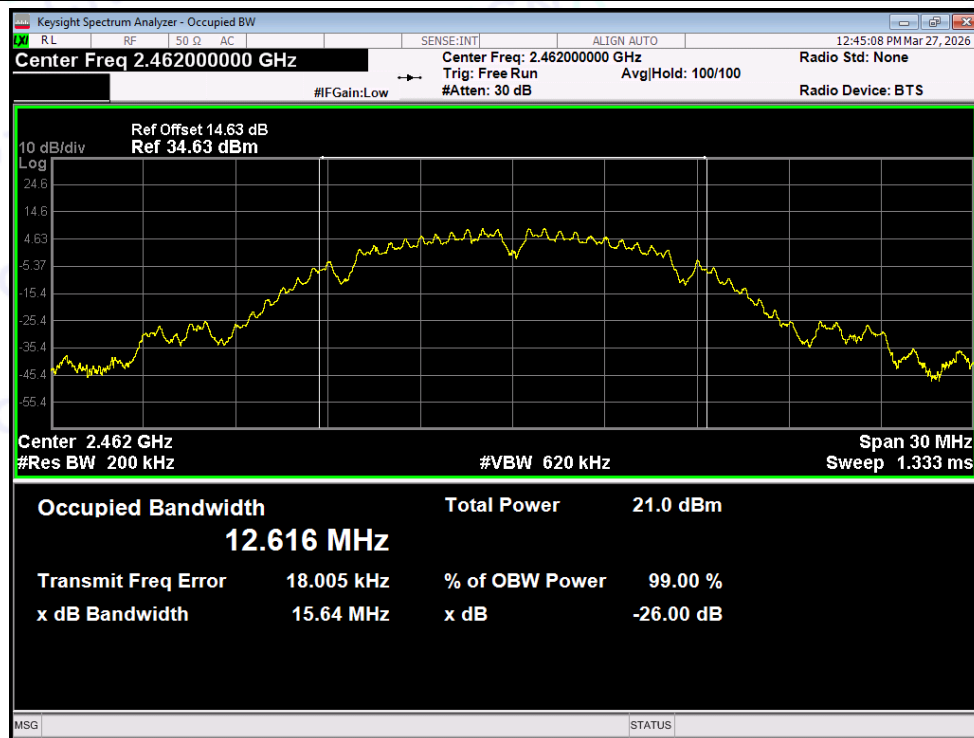
OBW NVNT b 2412MHz Ant1



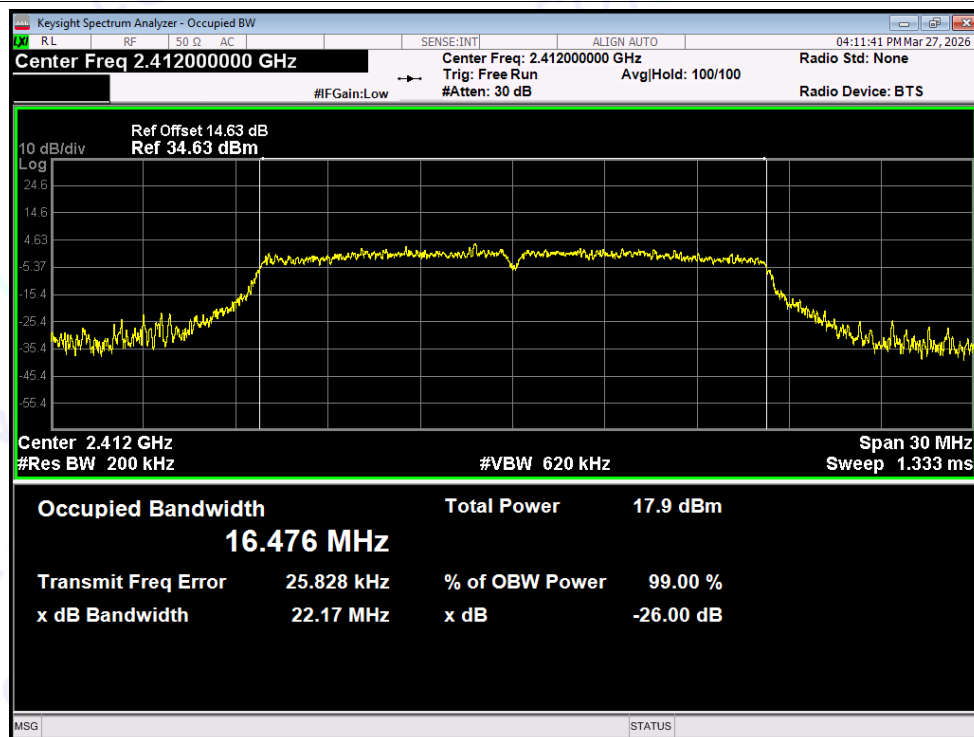
OBW NVNT b 2437MHz Ant1



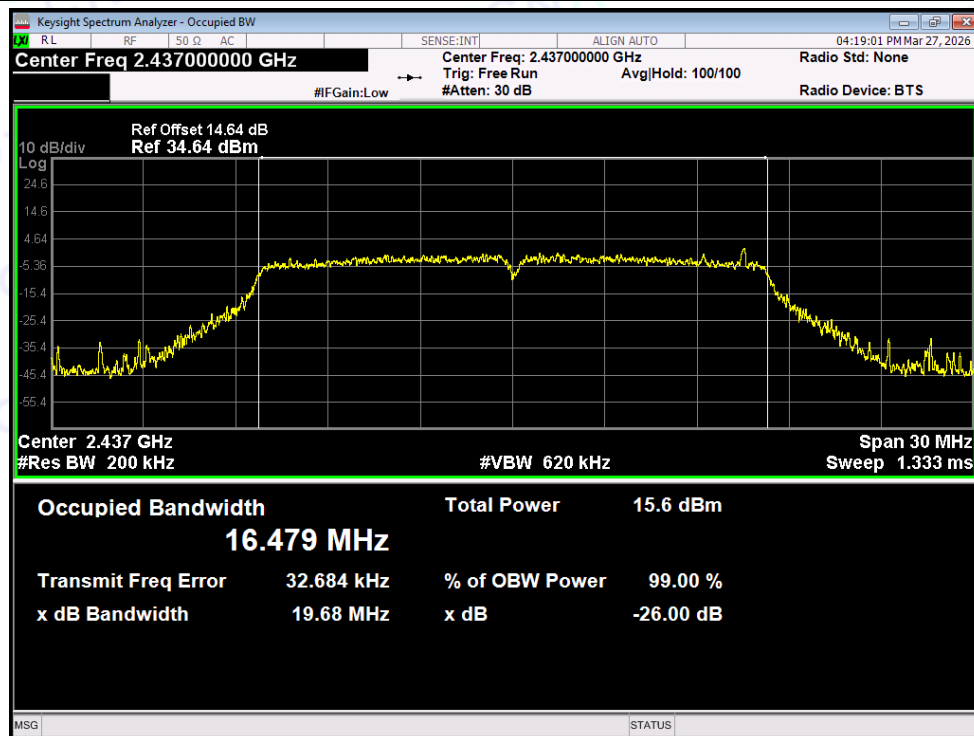
OBW NVNT b 2462MHz Ant1



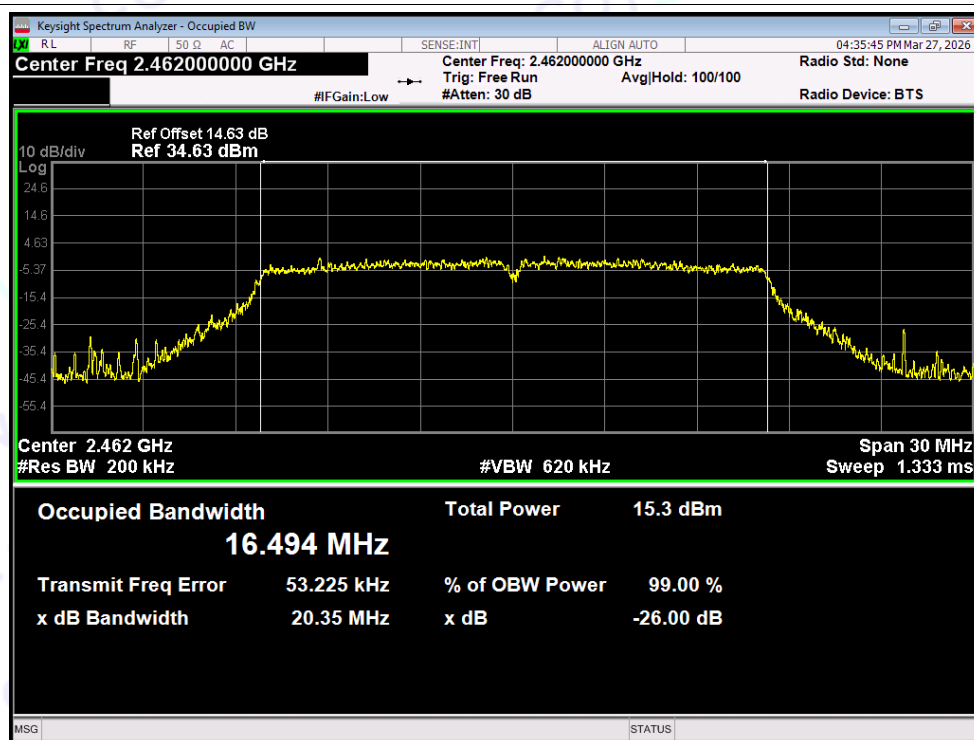
OBW NVNT g 2412MHz Ant1



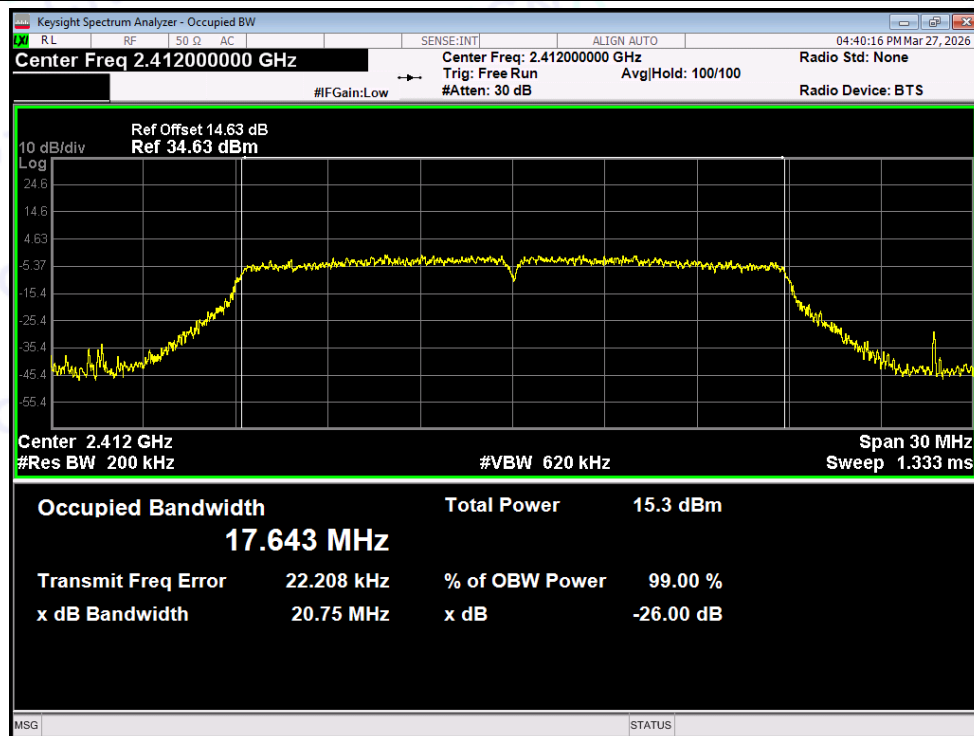
OBW NVNT g 2437MHz Ant1



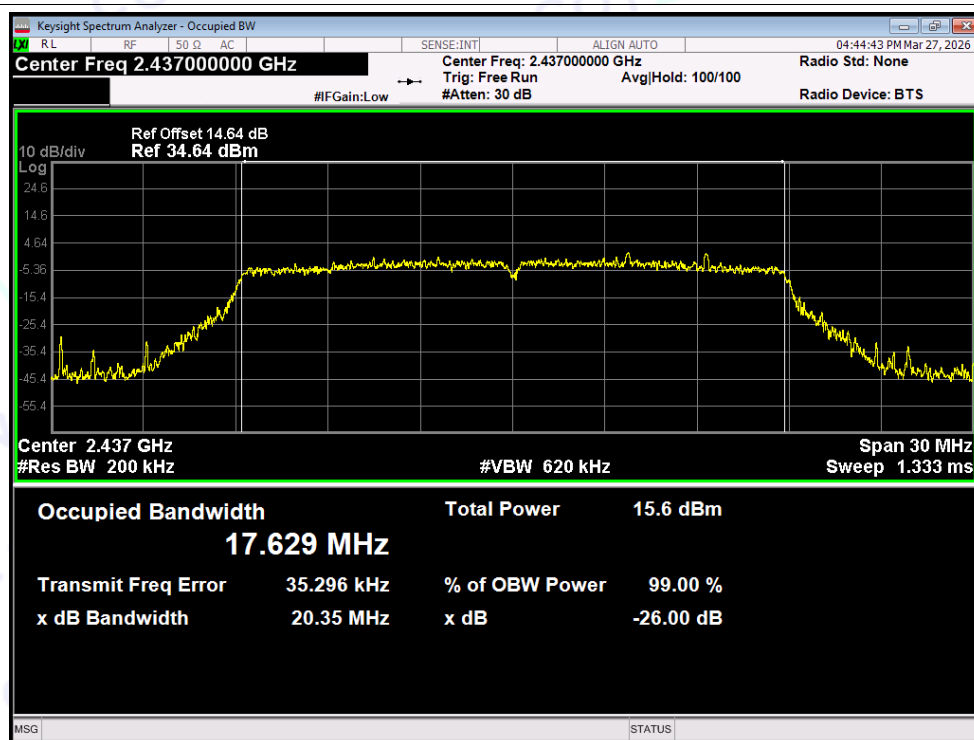
OBW NVNT g 2462MHz Ant1



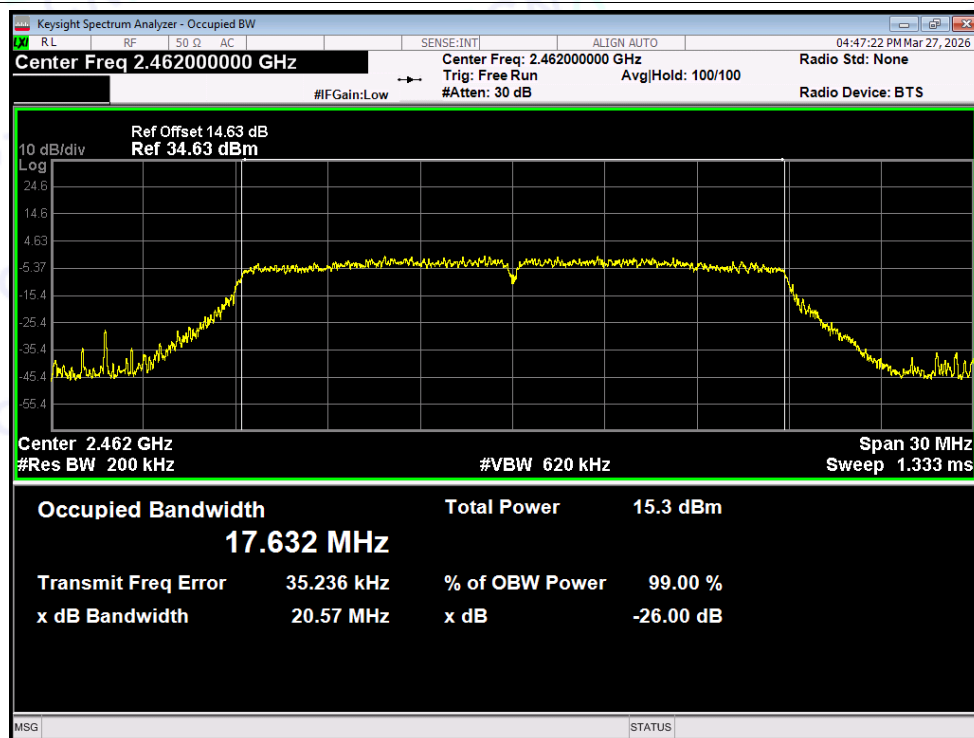
OBW NVNT n(HT20) 2412MHz Ant1



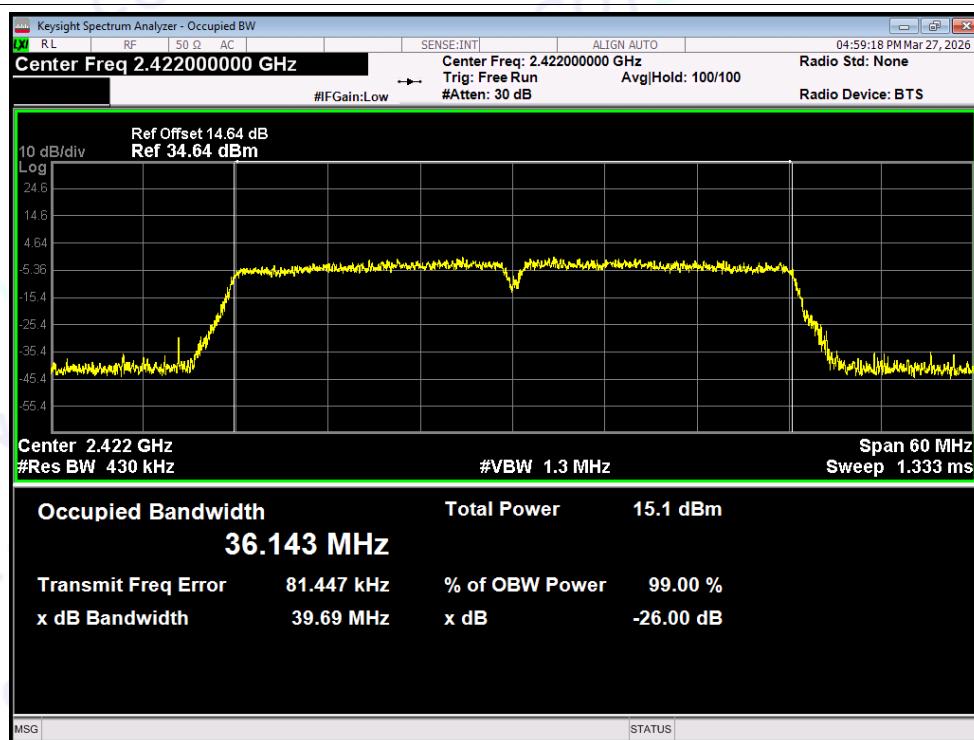
OBW NVNT n(HT20) 2437MHz Ant1



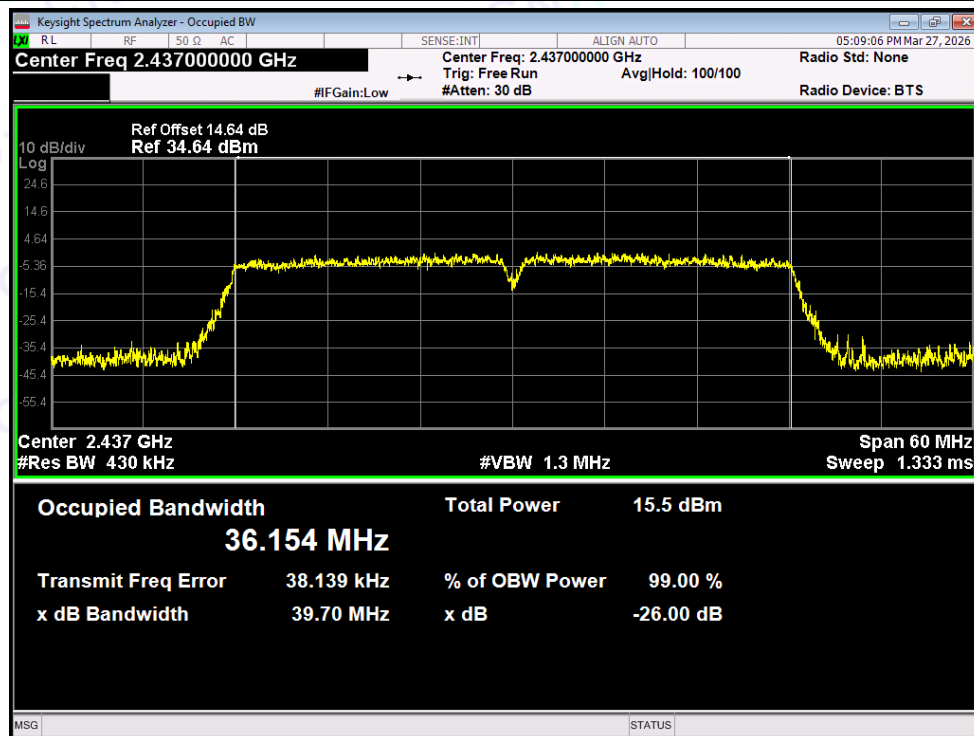
OBW NVNT n(HT20) 2462MHz Ant1



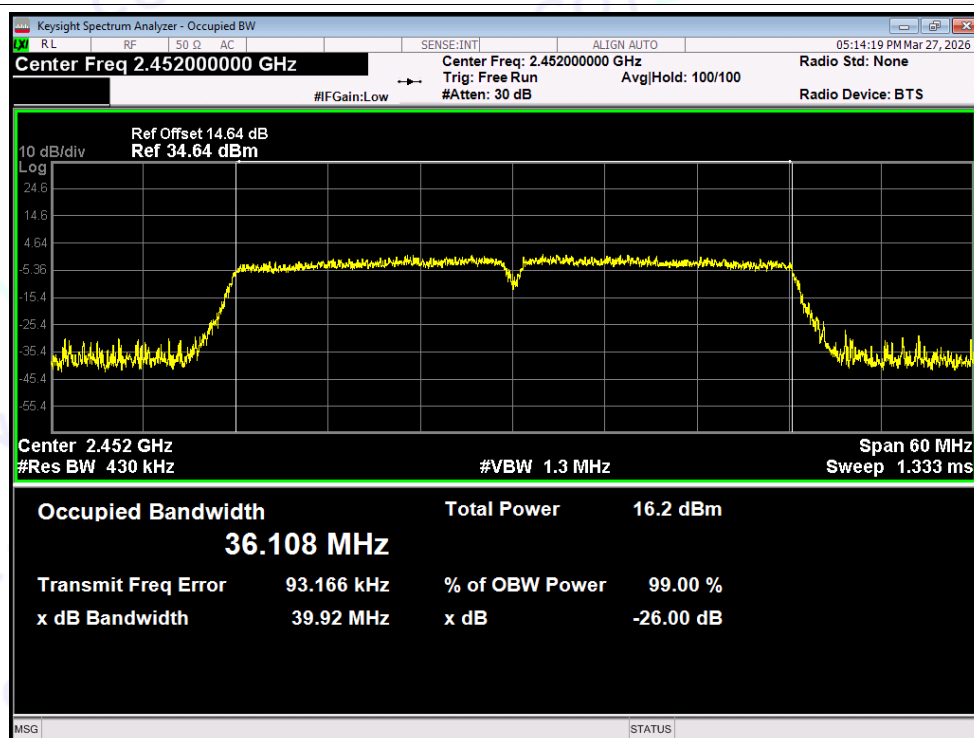
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



5. Maximum Power Spectral Density Level

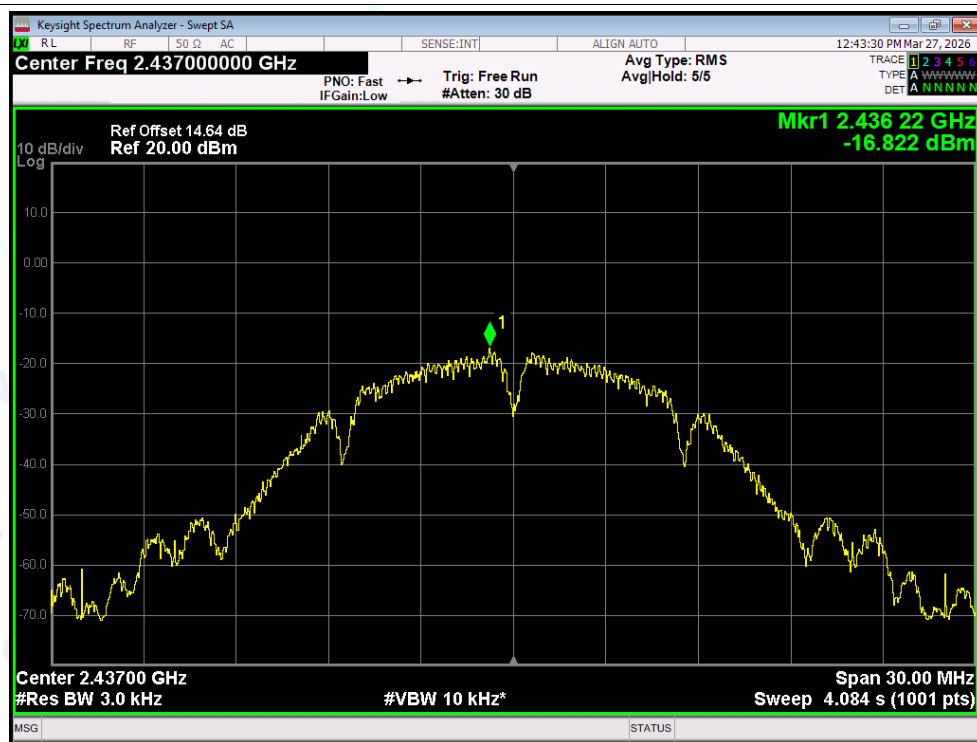
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-17.382	8	Pass
NVNT	b	2437	Ant1	-16.822	8	Pass
NVNT	b	2462	Ant1	-17.204	8	Pass
NVNT	g	2412	Ant1	-23.052	8	Pass
NVNT	g	2437	Ant1	-25.367	8	Pass
NVNT	g	2462	Ant1	-25.803	8	Pass
NVNT	n(HT20)	2412	Ant1	-25.989	8	Pass
NVNT	n(HT20)	2437	Ant1	-25.527	8	Pass
NVNT	n(HT20)	2462	Ant1	-26.297	8	Pass
NVNT	n(HT40)	2422	Ant1	-30.178	8	Pass
NVNT	n(HT40)	2437	Ant1	-29.37	8	Pass
NVNT	n(HT40)	2452	Ant1	-28.8	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



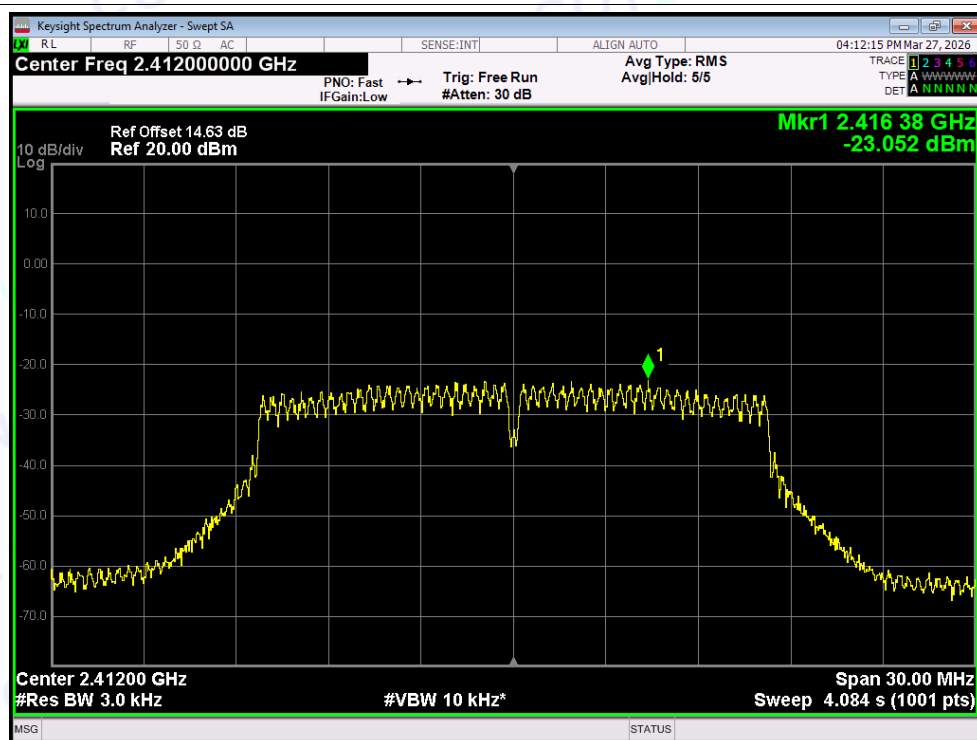
PSD NVNT b 2437MHz Ant1



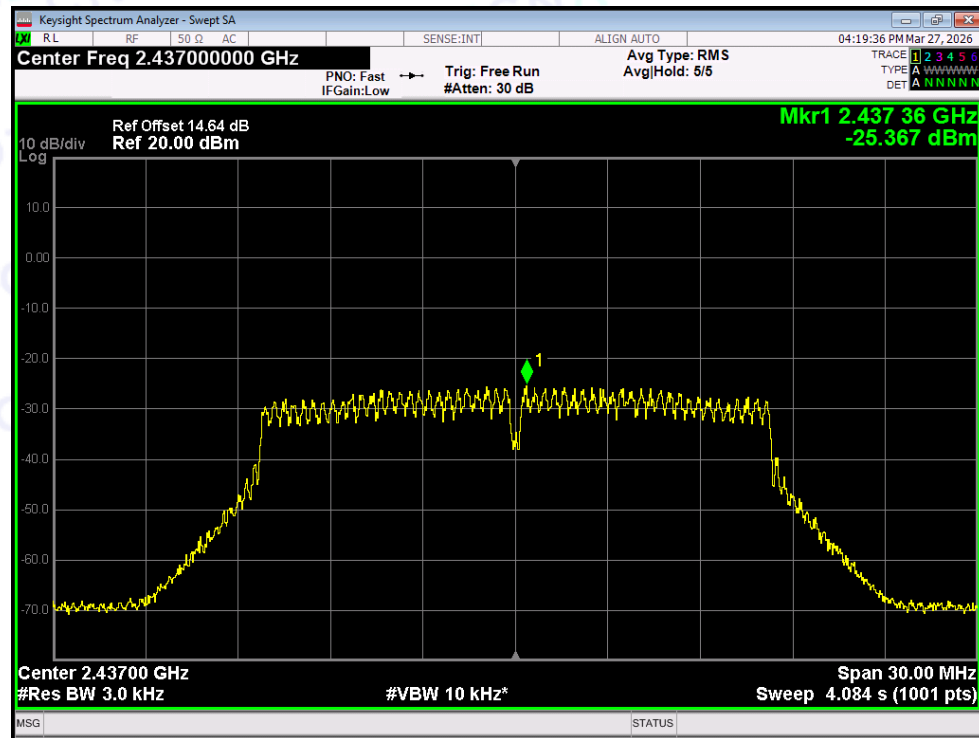
PSD NVNT b 2462MHz Ant1



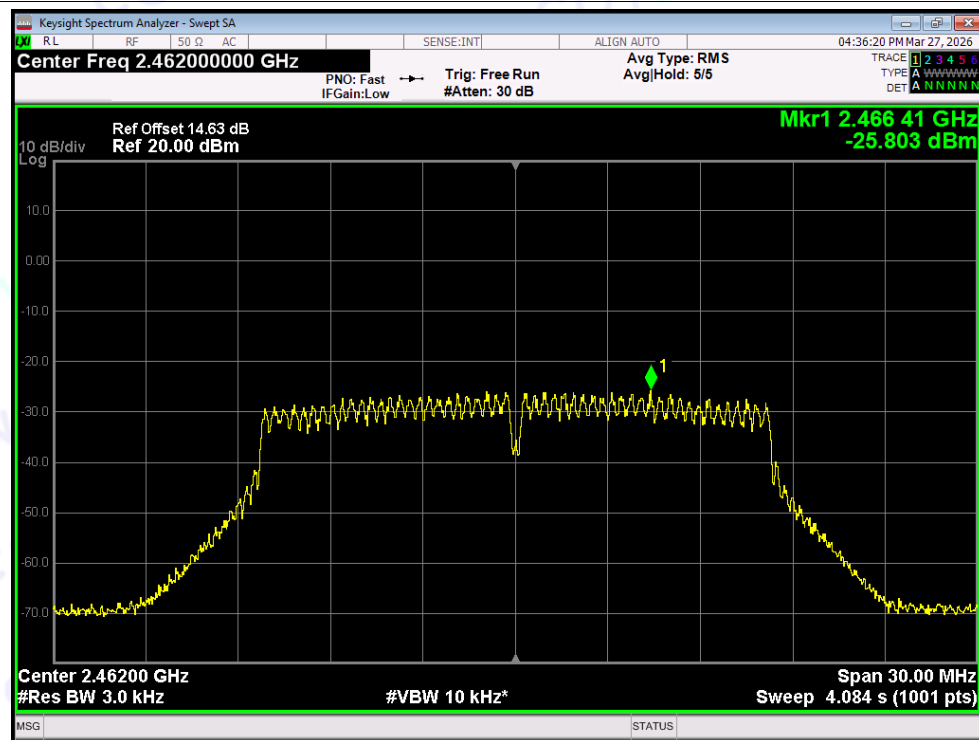
PSD NVNT g 2412MHz Ant1



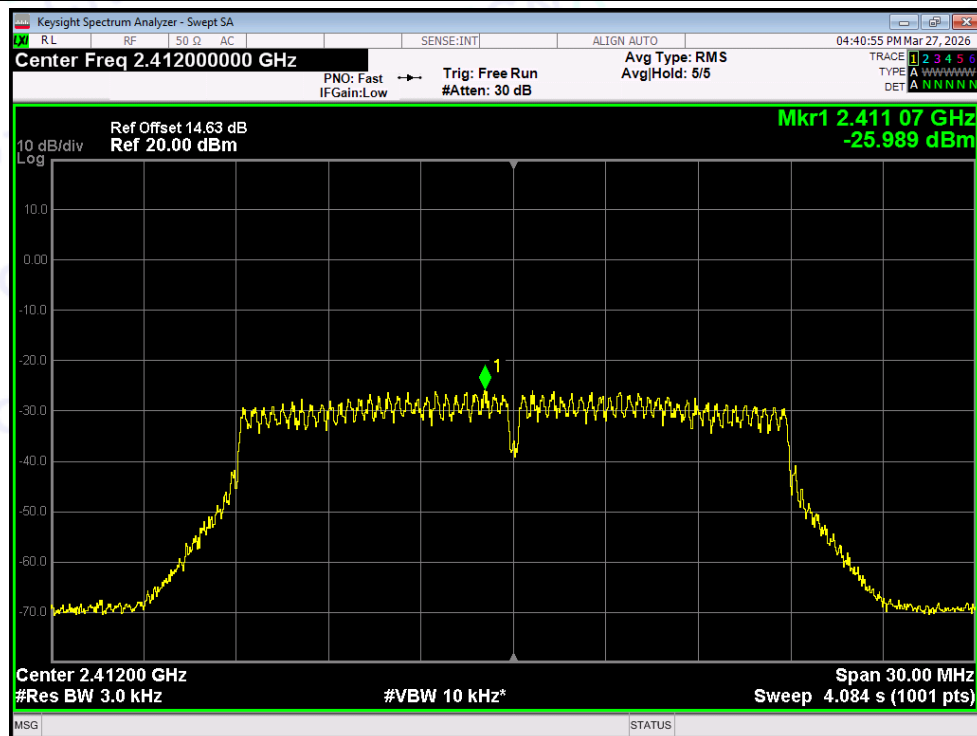
PSD NVNT g 2437MHz Ant1



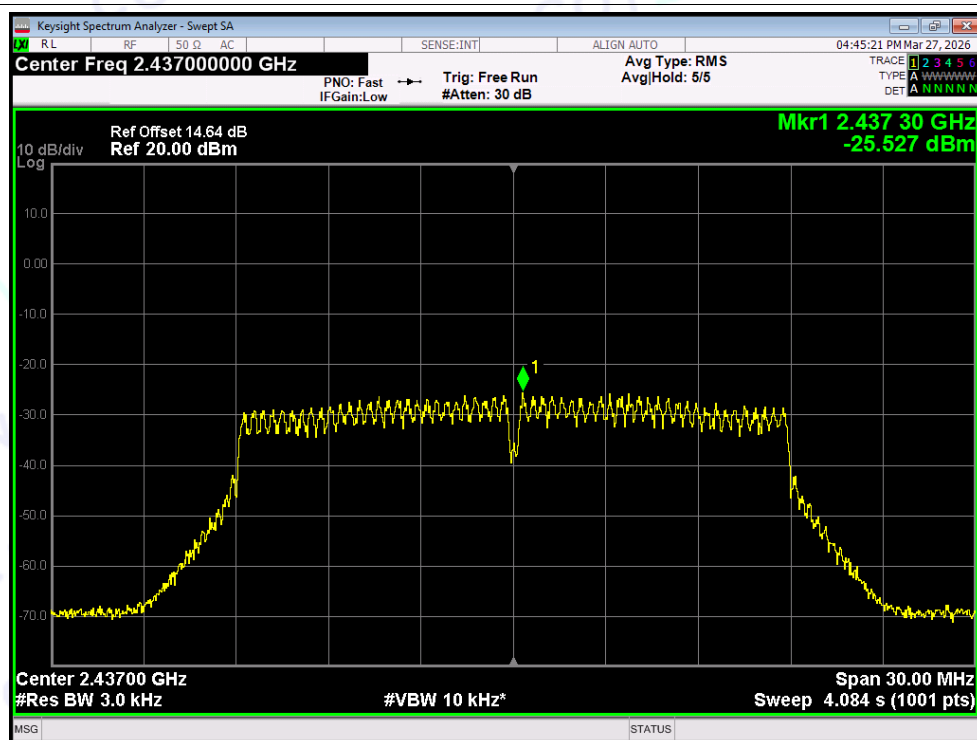
PSD NVNT g 2462MHz Ant1



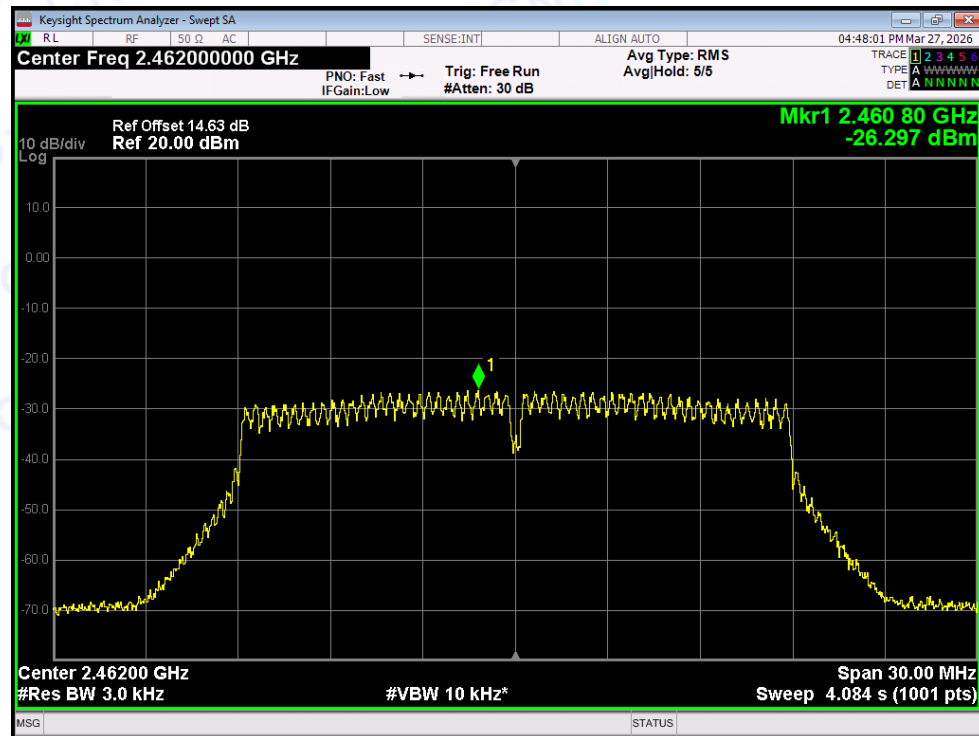
PSD NVNT n(HT20) 2412MHz Ant1



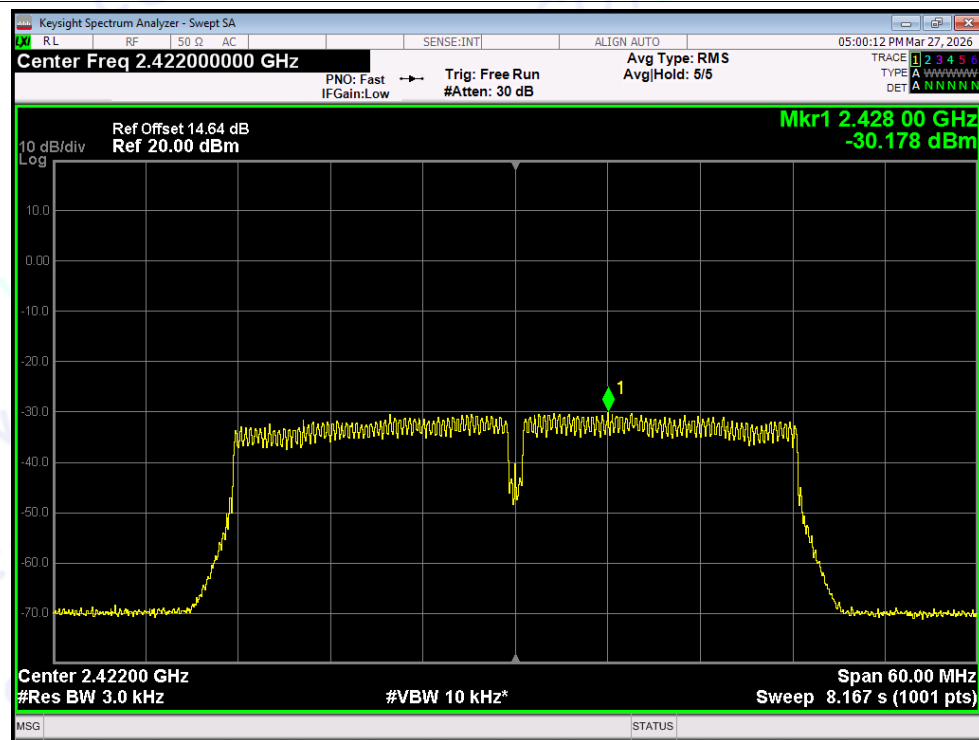
PSD NVNT n(HT20) 2437MHz Ant1



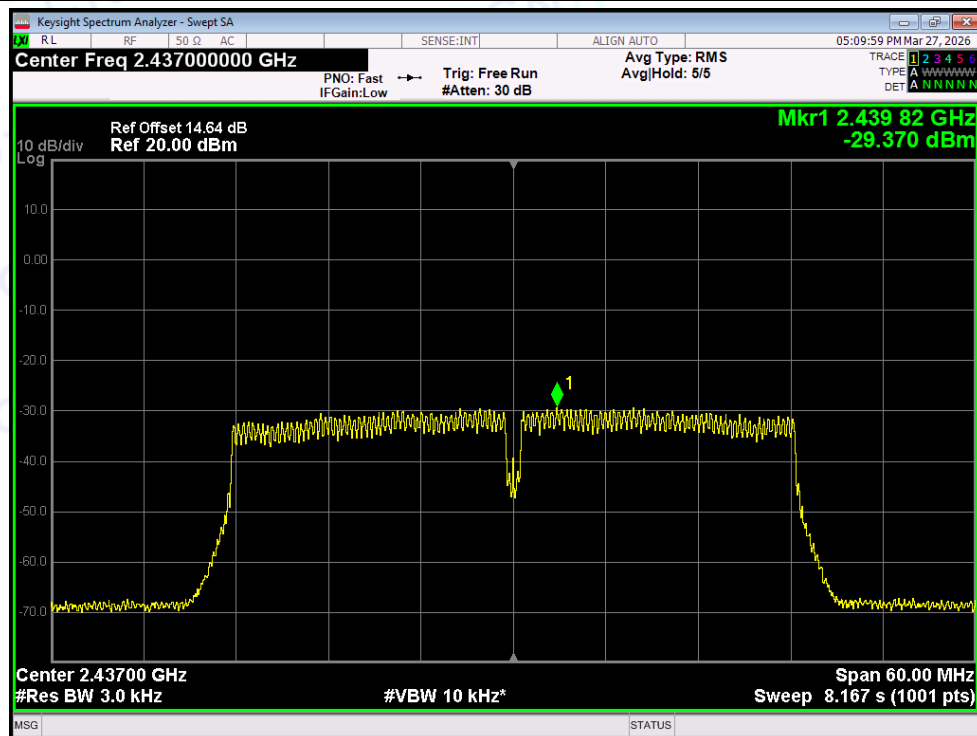
PSD NVNT n(HT20) 2462MHz Ant1



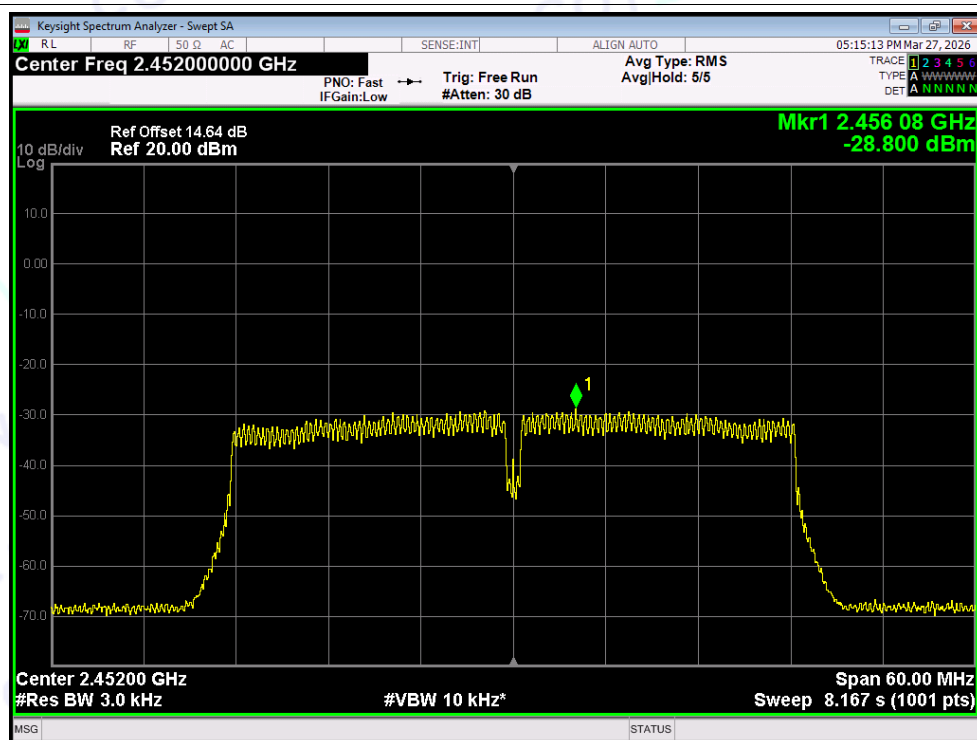
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

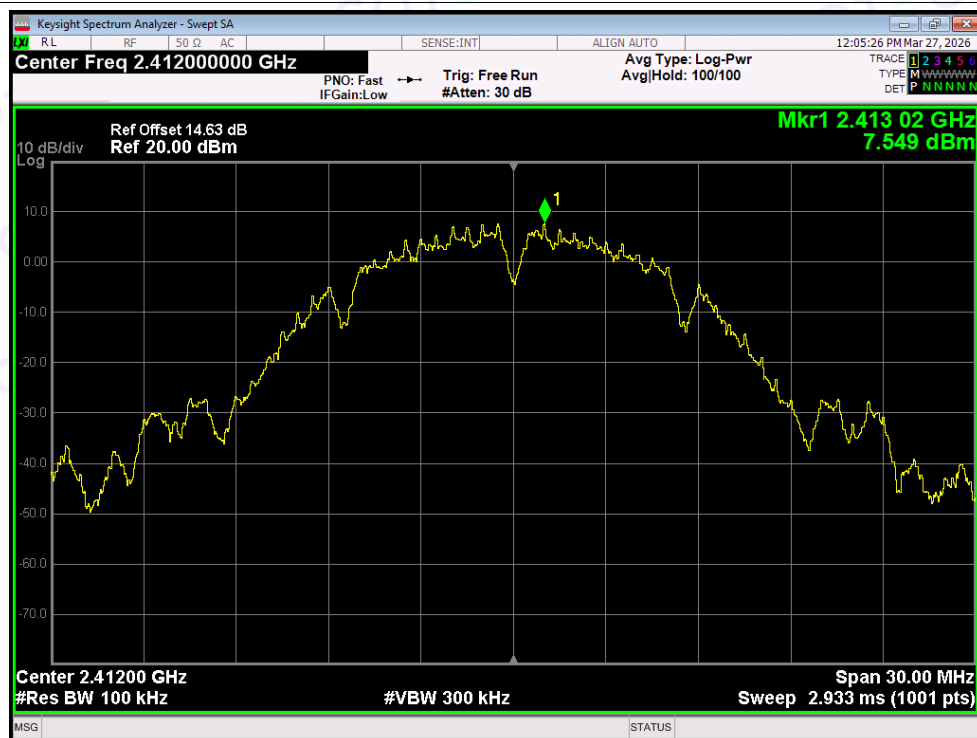


6. Band Edge

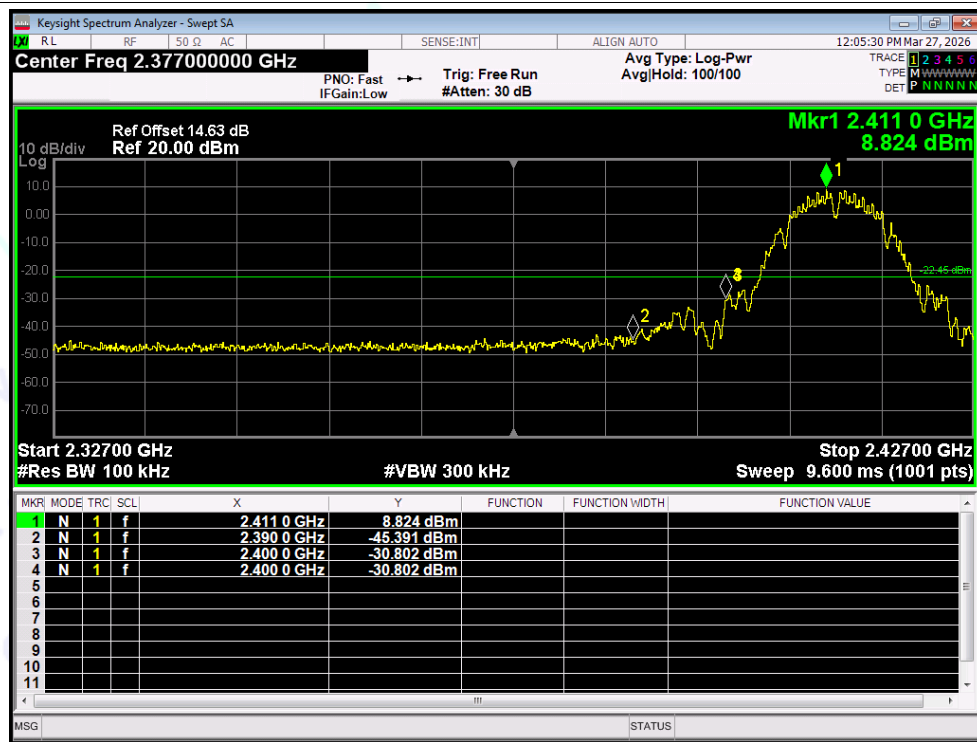
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-38.35	-30	Pass
NVNT	b	2462	Ant1	-48.97	-30	Pass
NVNT	g	2412	Ant1	-38.33	-30	Pass
NVNT	g	2462	Ant1	-43.57	-30	Pass
NVNT	n(HT20)	2412	Ant1	-32.53	-30	Pass
NVNT	n(HT20)	2462	Ant1	-40.98	-30	Pass
NVNT	n(HT40)	2422	Ant1	-38.4	-30	Pass
NVNT	n(HT40)	2452	Ant1	-38.32	-30	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



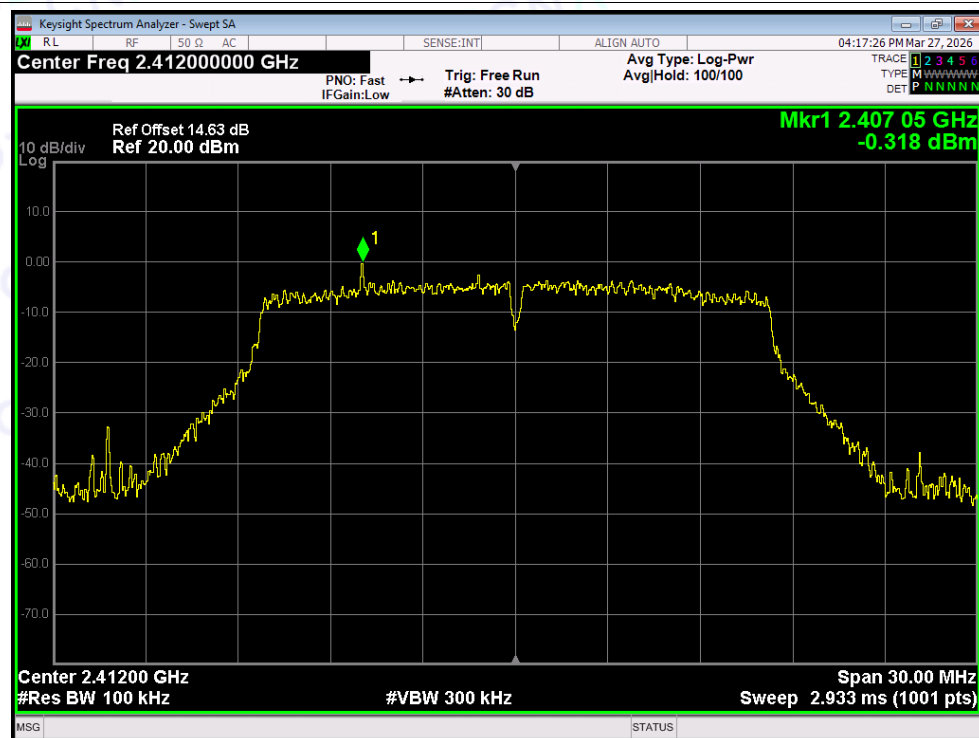
Band Edge NVNT b 2462MHz Ant1 Ref



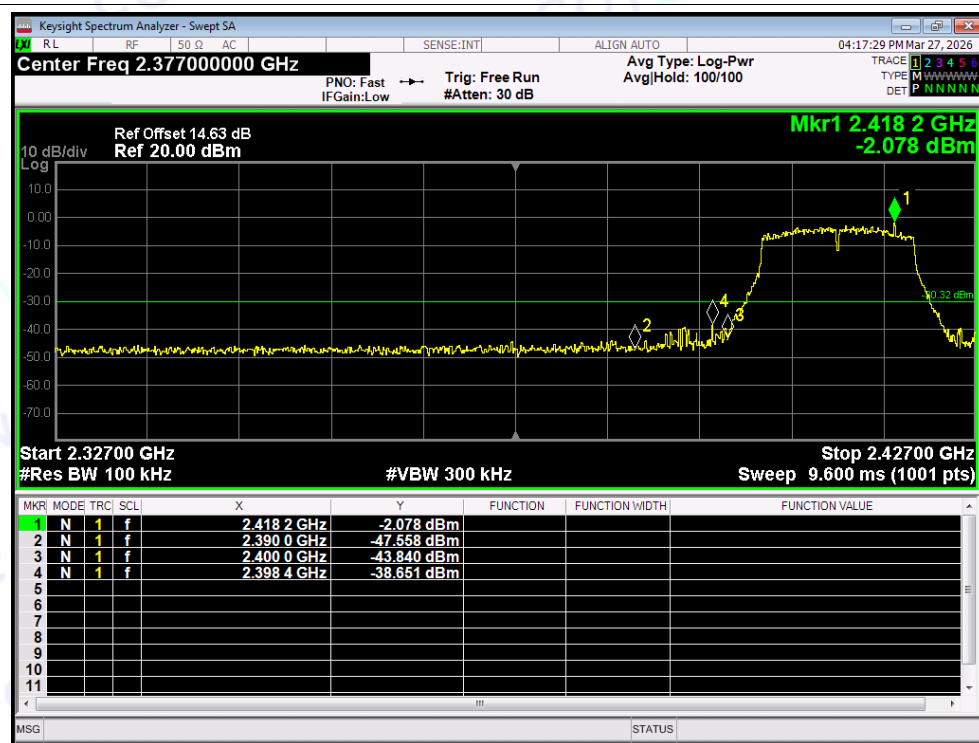
Band Edge NVNT b 2462MHz Ant1 Emission



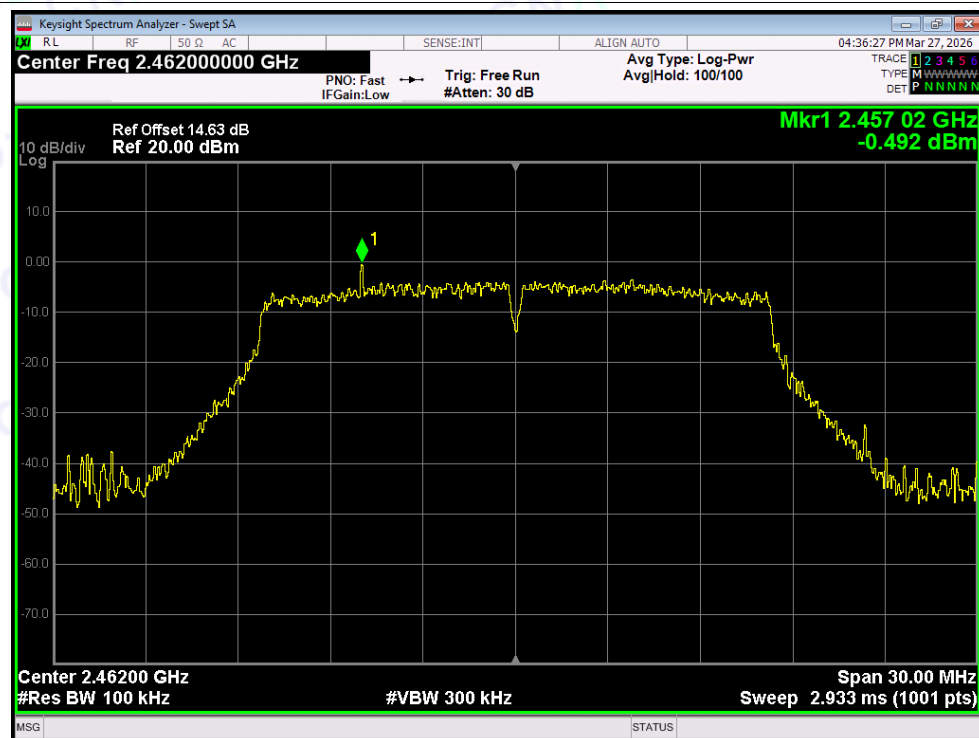
Band Edge NVNT g 2412MHz Ant1 Ref



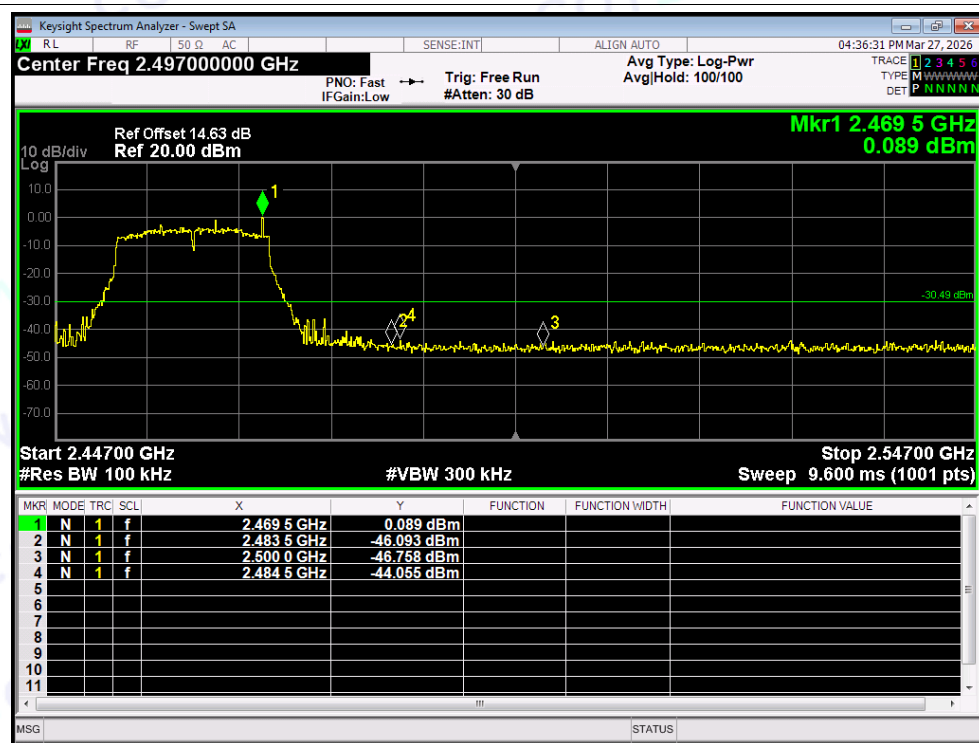
Band Edge NVNT g 2412MHz Ant1 Emission



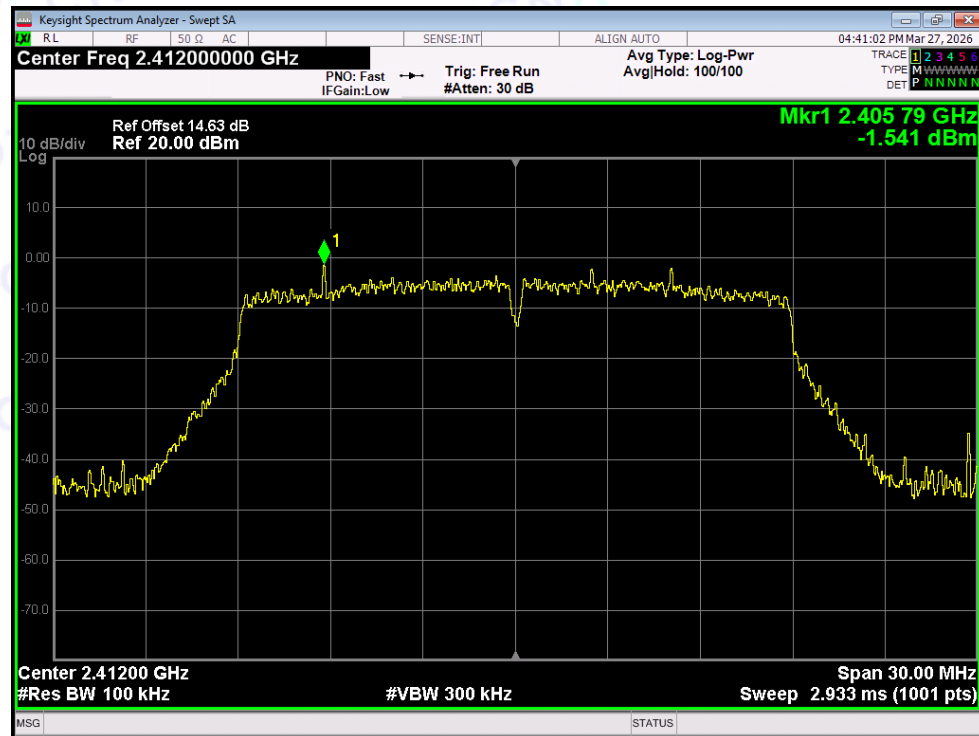
Band Edge NVNT g 2462MHz Ant1 Ref



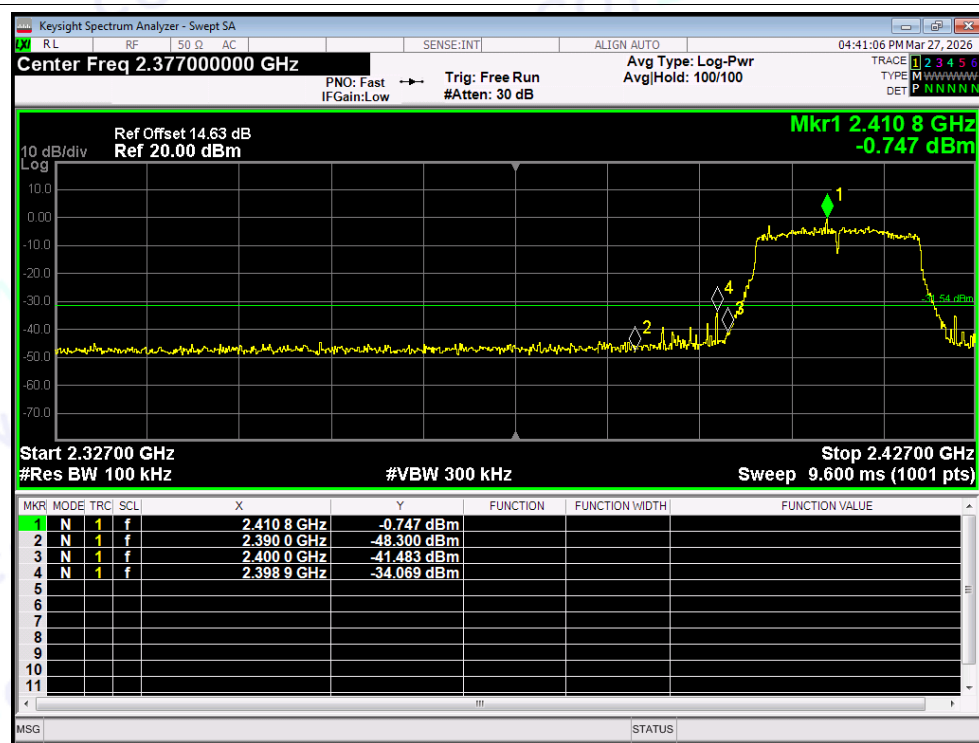
Band Edge NVNT g 2462MHz Ant1 Emission



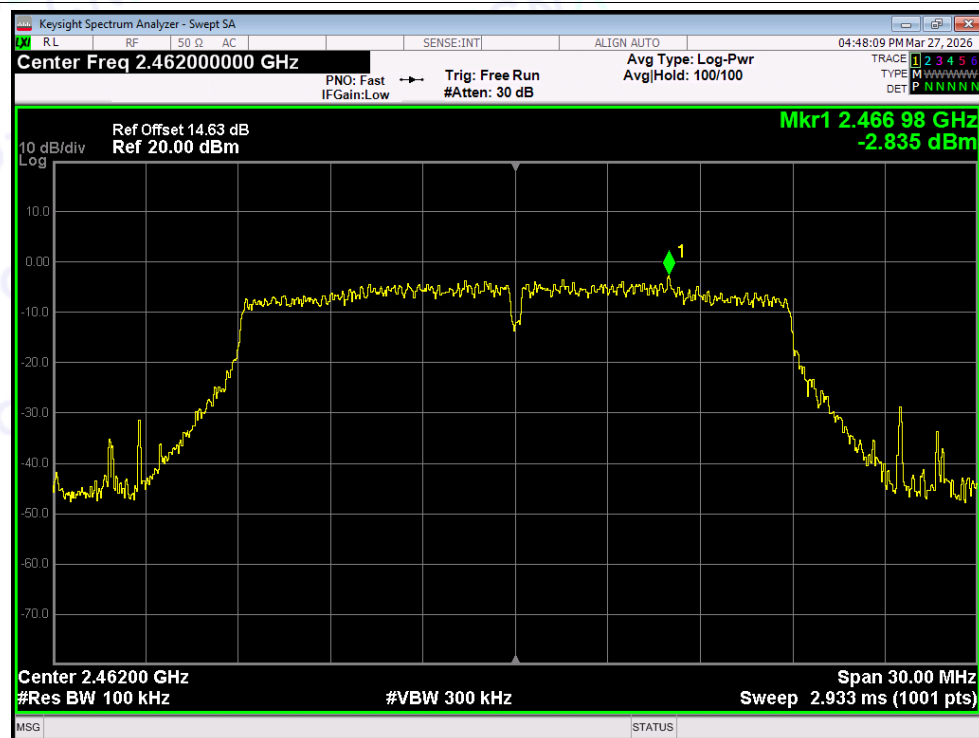
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



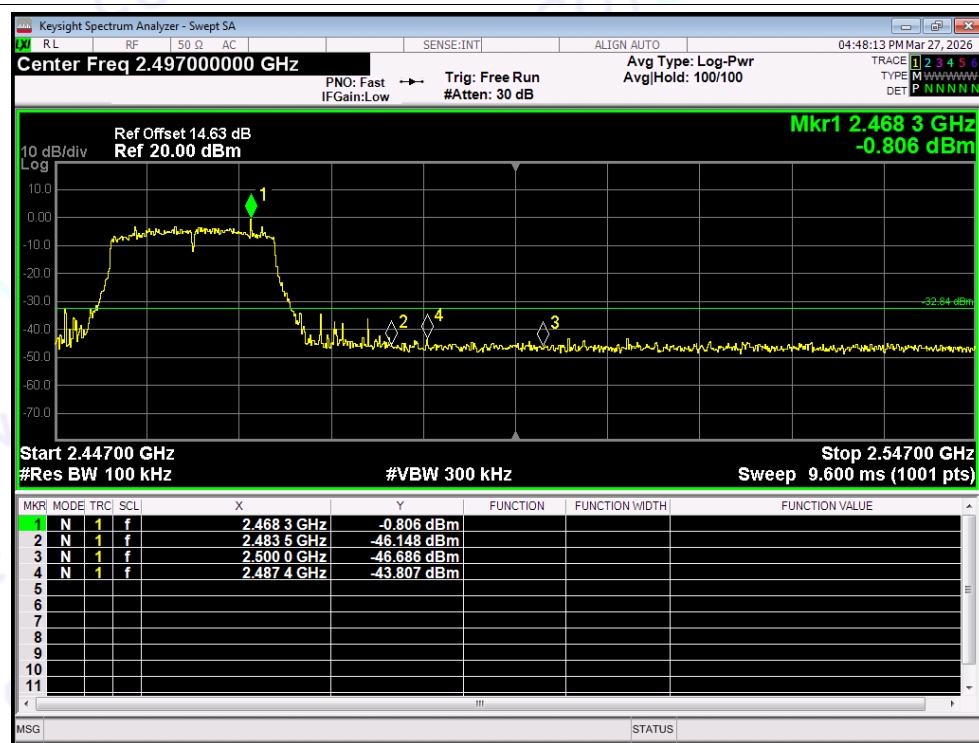
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



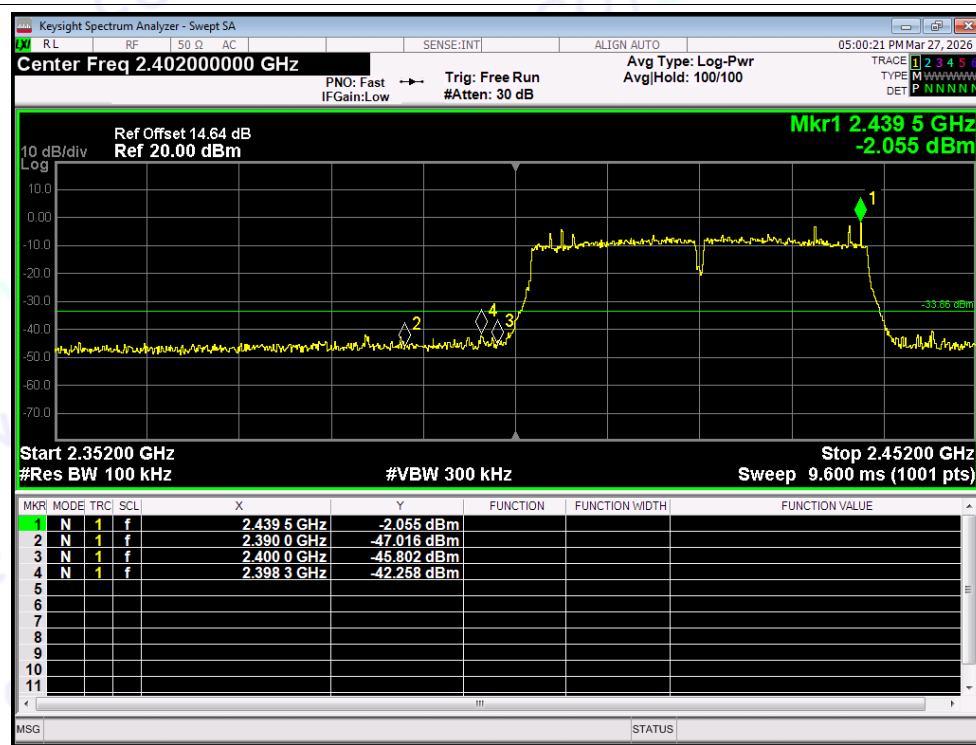
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



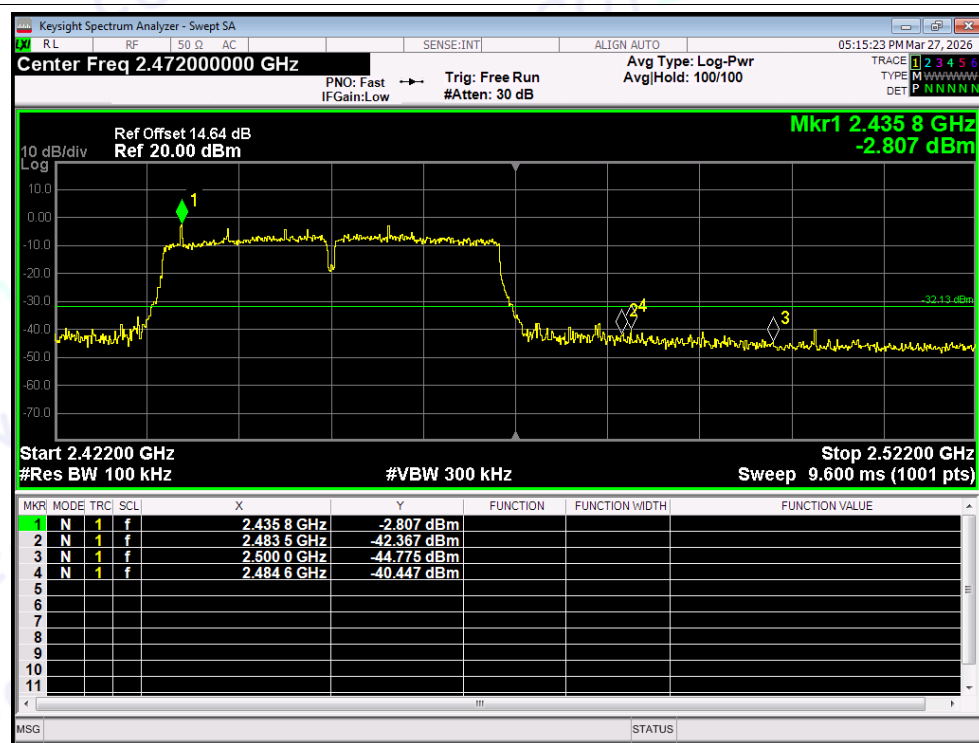
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

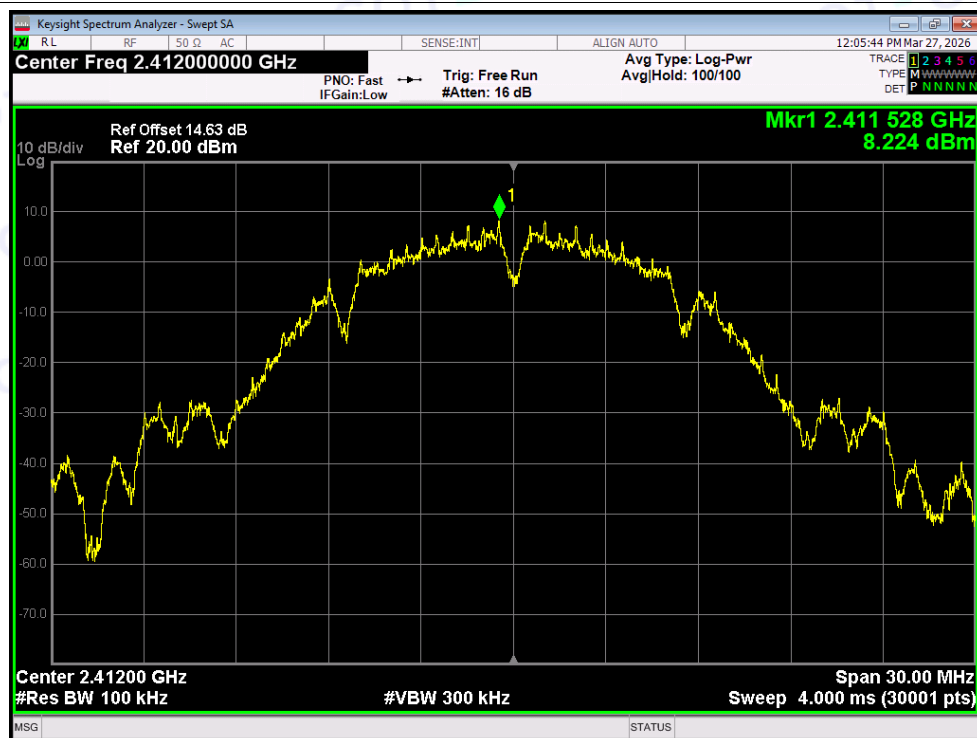


7. Conducted RF Spurious Emission

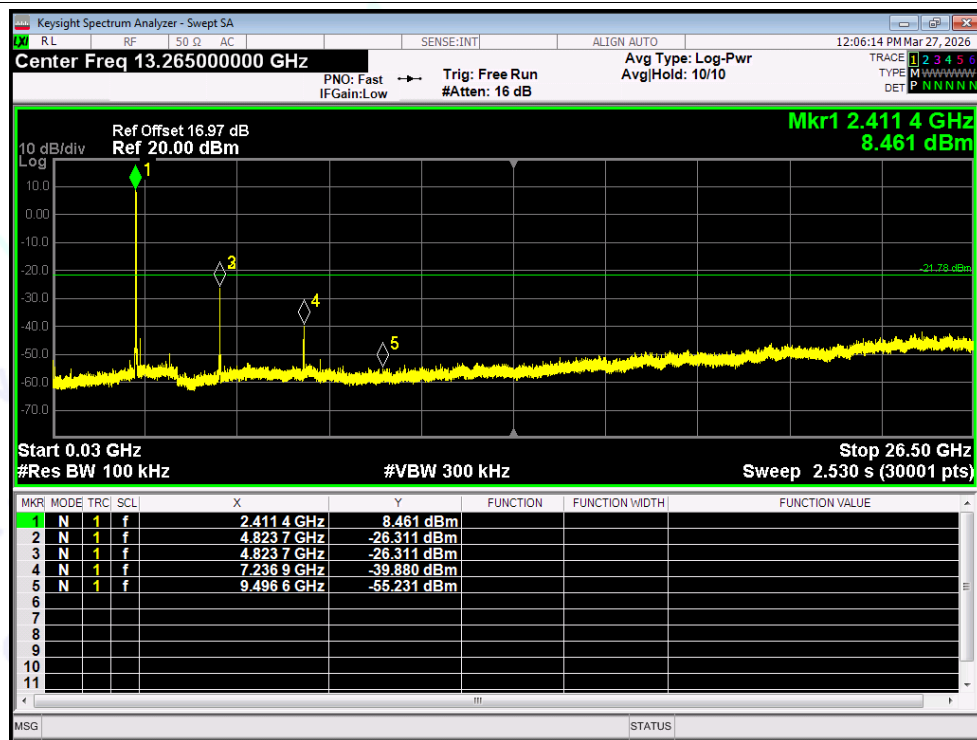
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-34.53	-30	Pass
NVNT	b	2437	Ant1	-32.65	-30	Pass
NVNT	b	2462	Ant1	-30.87	-30	Pass
NVNT	g	2412	Ant1	-40.42	-30	Pass
NVNT	g	2437	Ant1	-37.85	-30	Pass
NVNT	g	2462	Ant1	-35.95	-30	Pass
NVNT	n(HT20)	2412	Ant1	-38.07	-30	Pass
NVNT	n(HT20)	2437	Ant1	-39.44	-30	Pass
NVNT	n(HT20)	2462	Ant1	-37.71	-30	Pass
NVNT	n(HT40)	2422	Ant1	-38.67	-30	Pass
NVNT	n(HT40)	2437	Ant1	-35.28	-30	Pass
NVNT	n(HT40)	2452	Ant1	-35.16	-30	Pass

Test Graphs

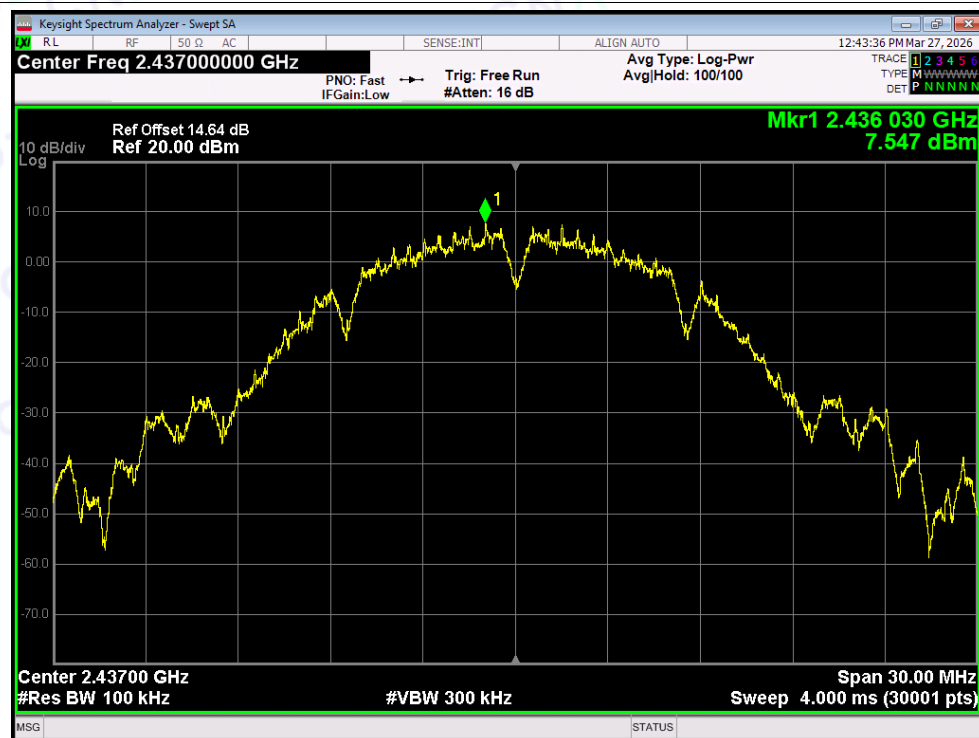
Tx. Spurious NVNT b 2412MHz Ant1 Ref



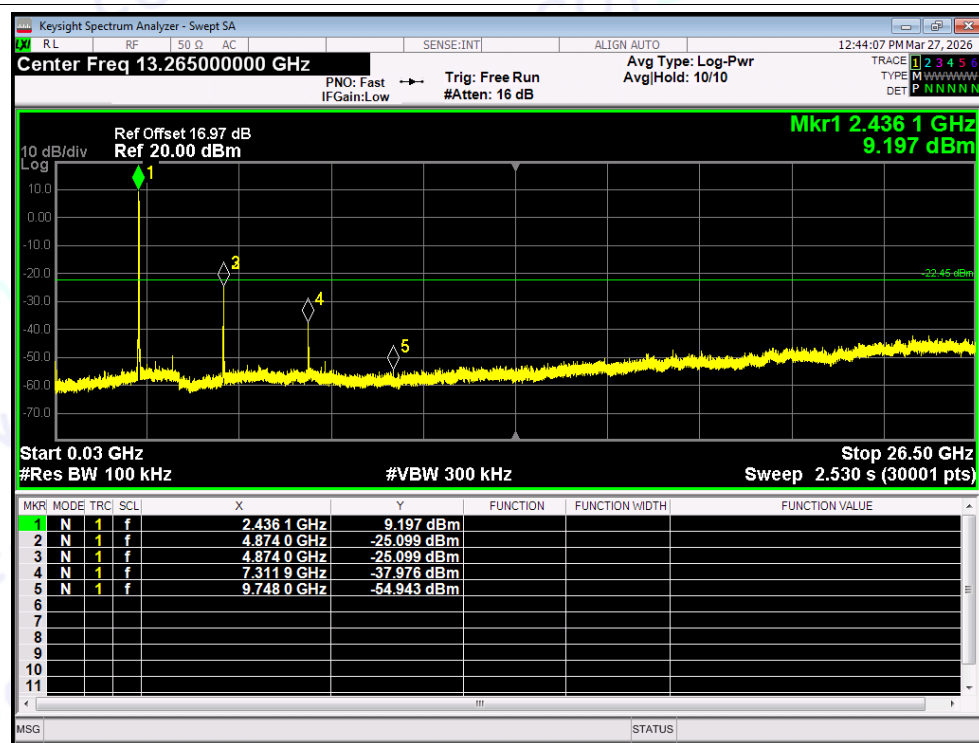
Tx. Spurious NVNT b 2412MHz Ant1 Emission



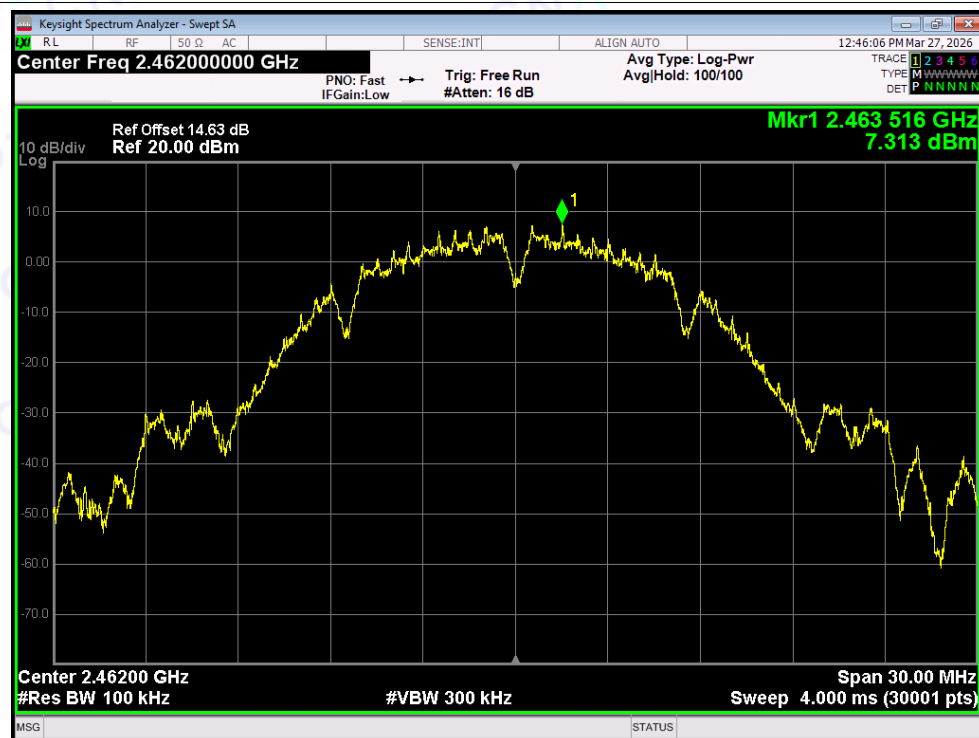
Tx. Spurious NVNT b 2437MHz Ant1 Ref



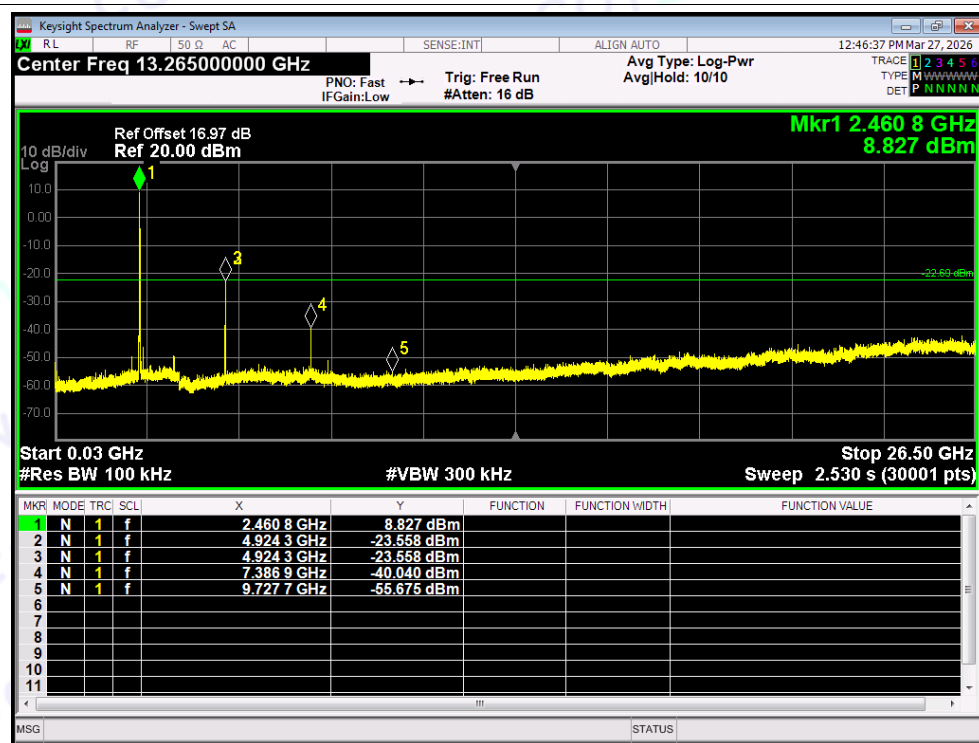
Tx. Spurious NVNT b 2437MHz Ant1 Emission



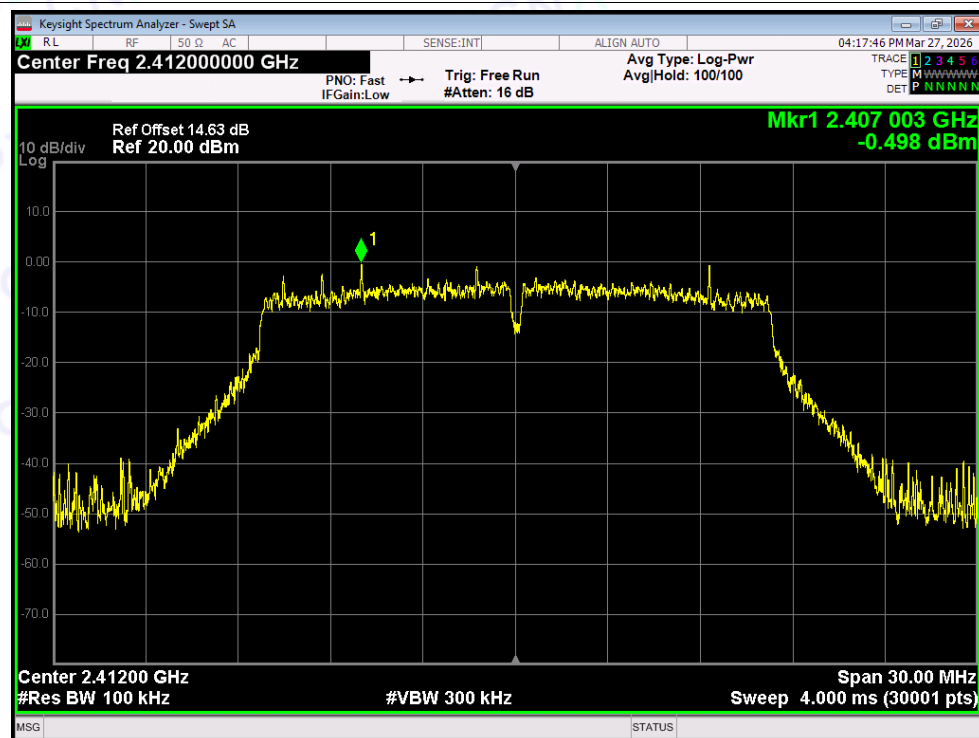
Tx. Spurious NVNT b 2462MHz Ant1 Ref



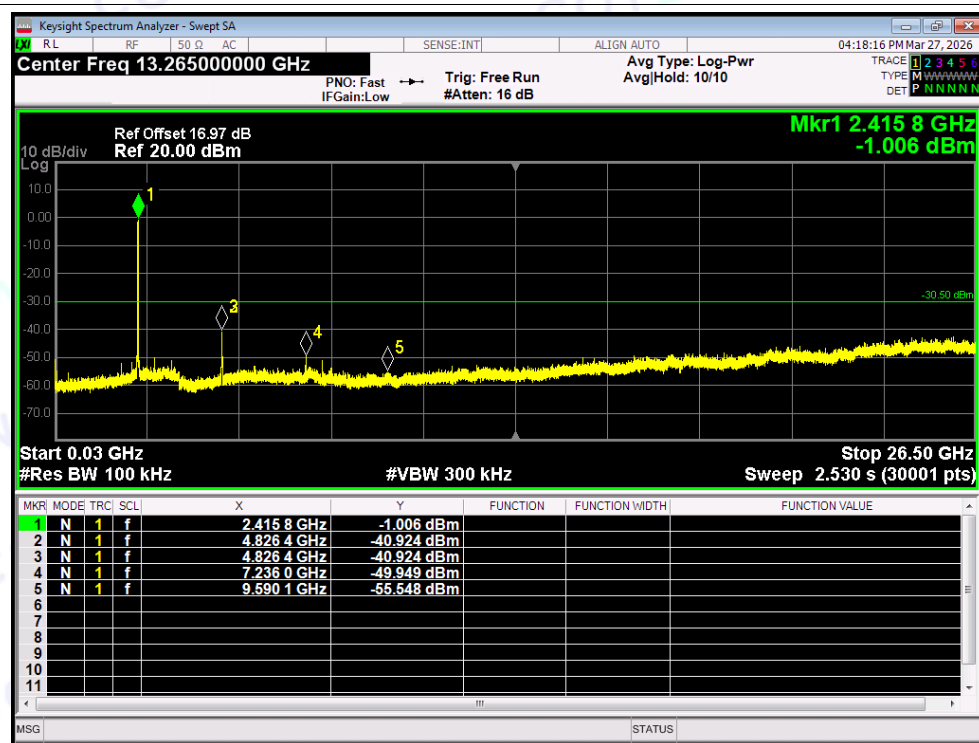
Tx. Spurious NVNT b 2462MHz Ant1 Emission



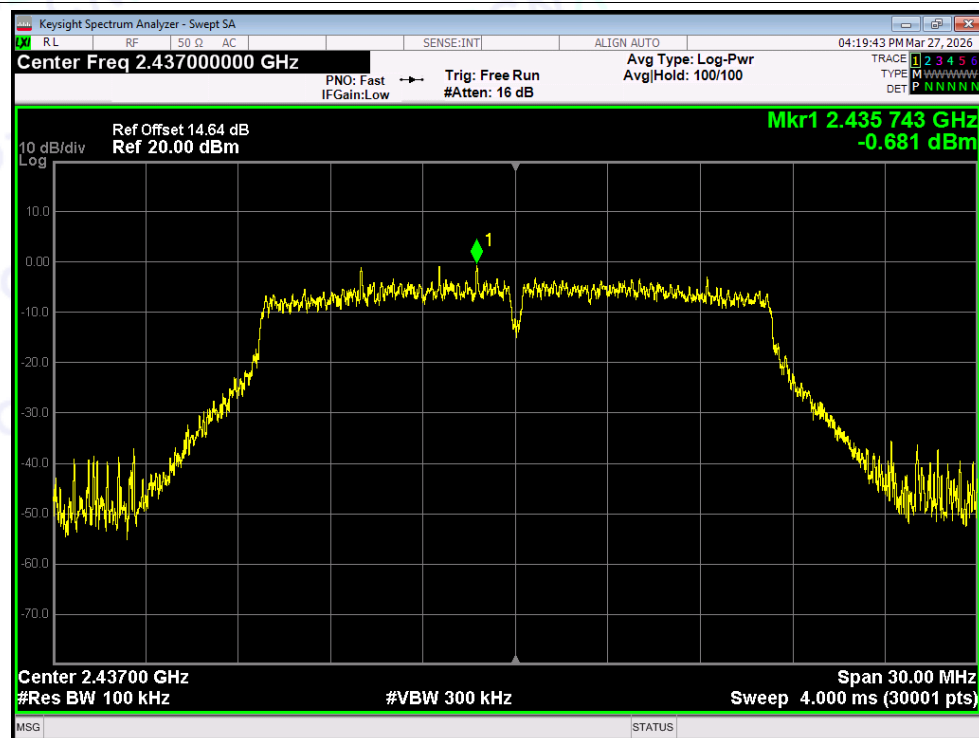
Tx. Spurious NVNT g 2412MHz Ant1 Ref



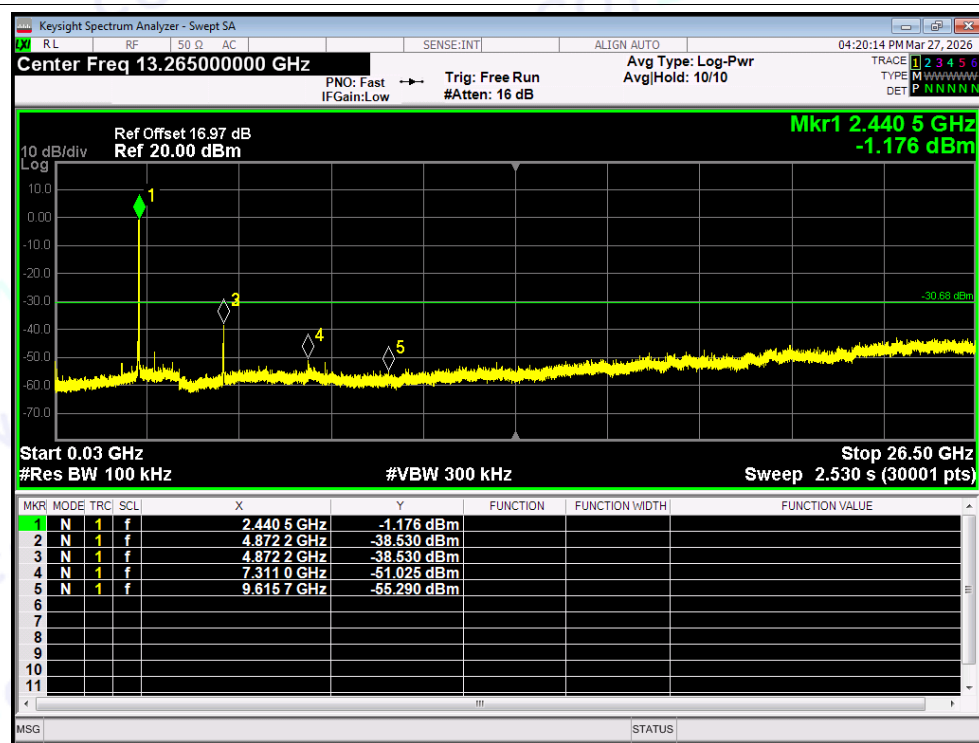
Tx. Spurious NVNT g 2412MHz Ant1 Emission



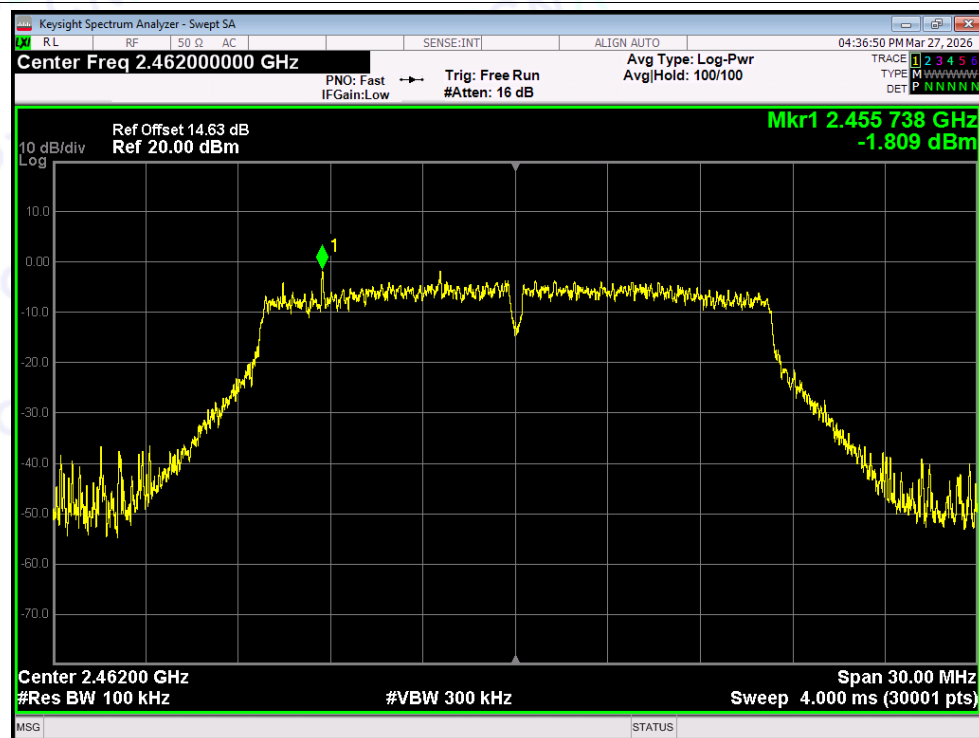
Tx. Spurious NVNT g 2437MHz Ant1 Ref



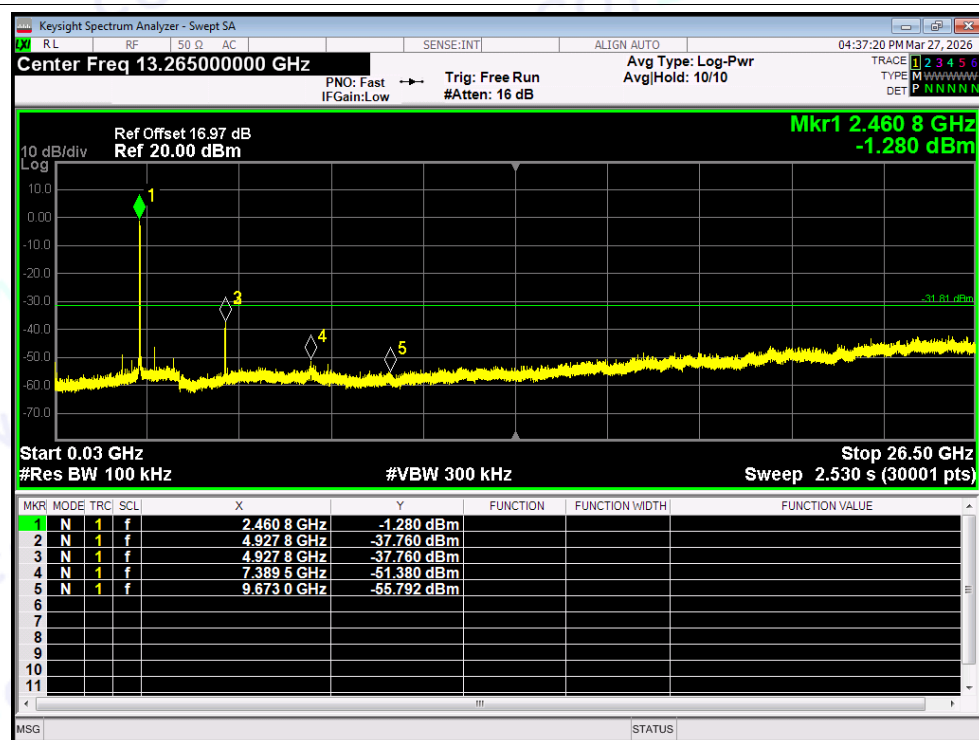
Tx. Spurious NVNT g 2437MHz Ant1 Emission



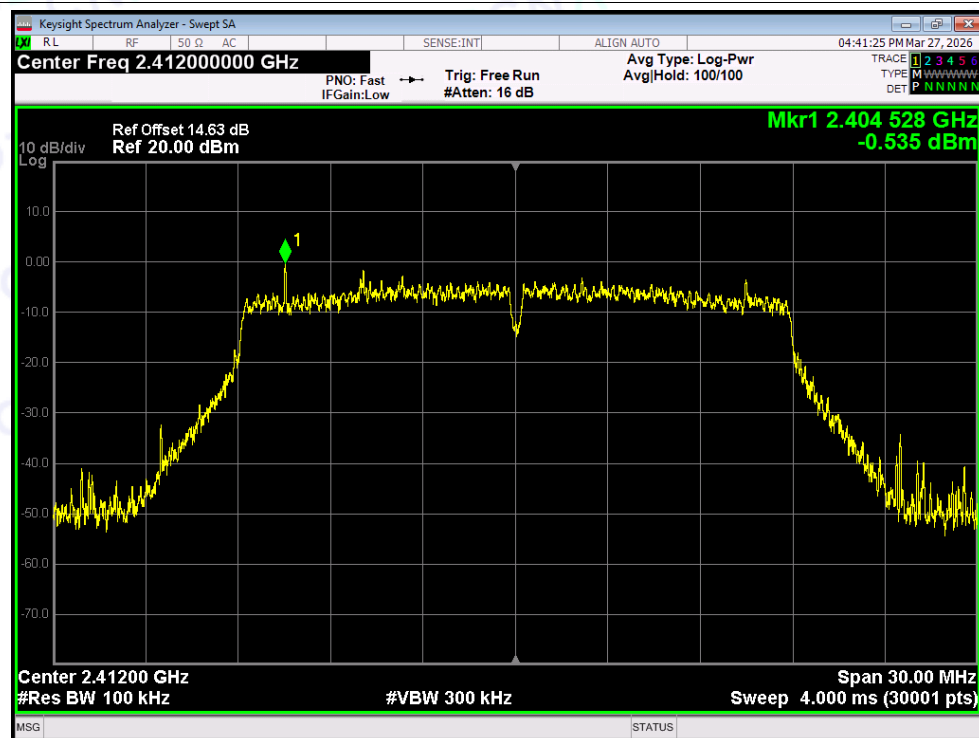
Tx. Spurious NVNT g 2462MHz Ant1 Ref



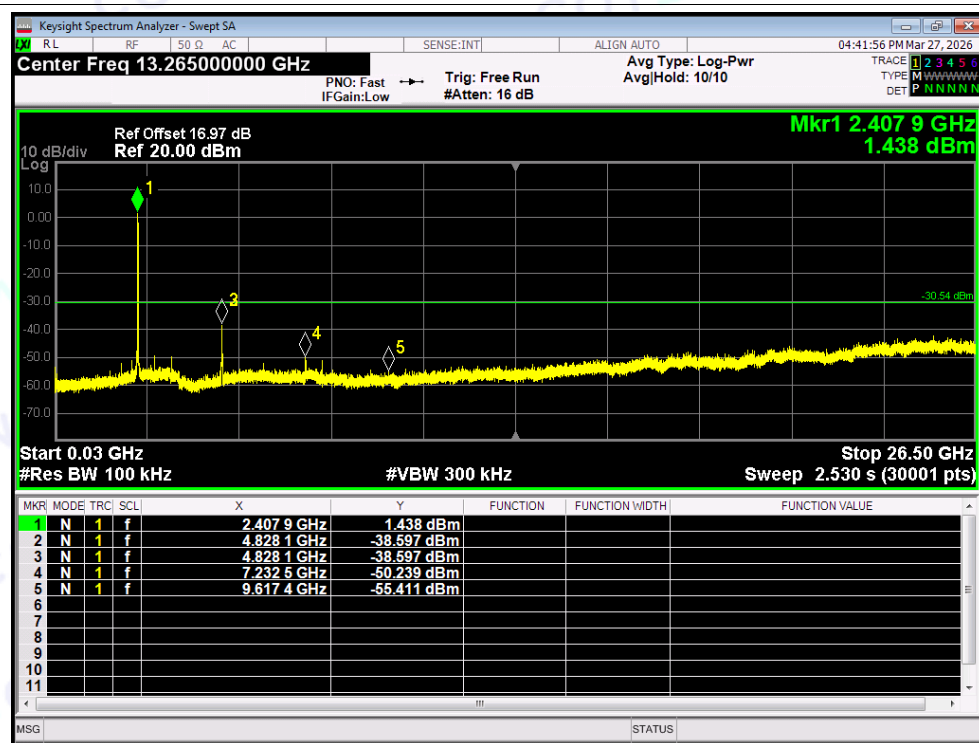
Tx. Spurious NVNT g 2462MHz Ant1 Emission



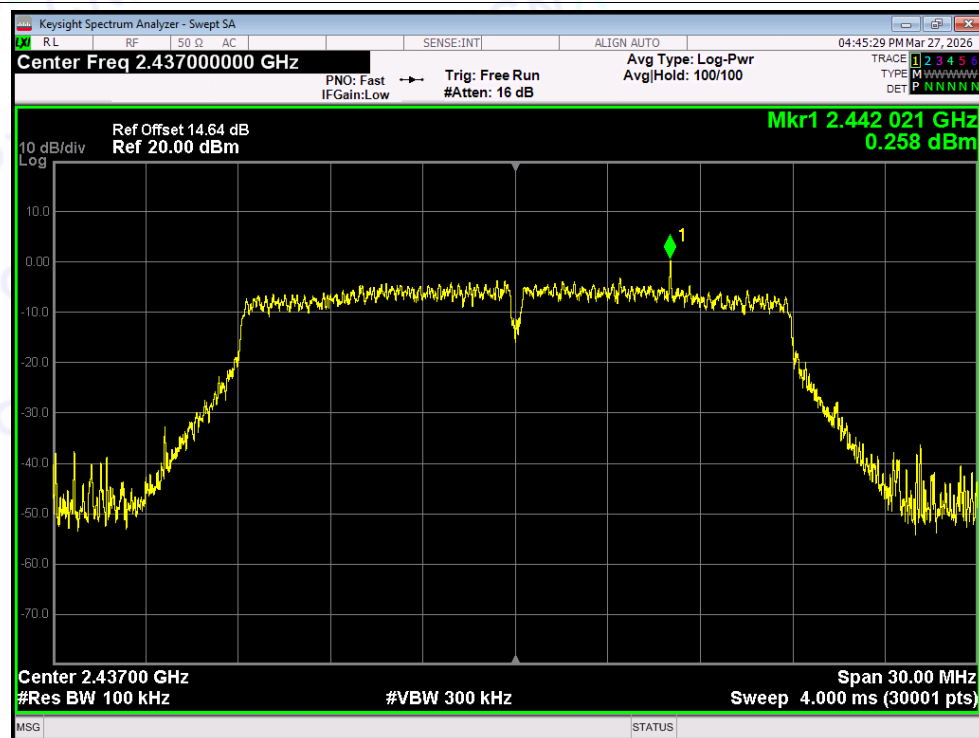
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



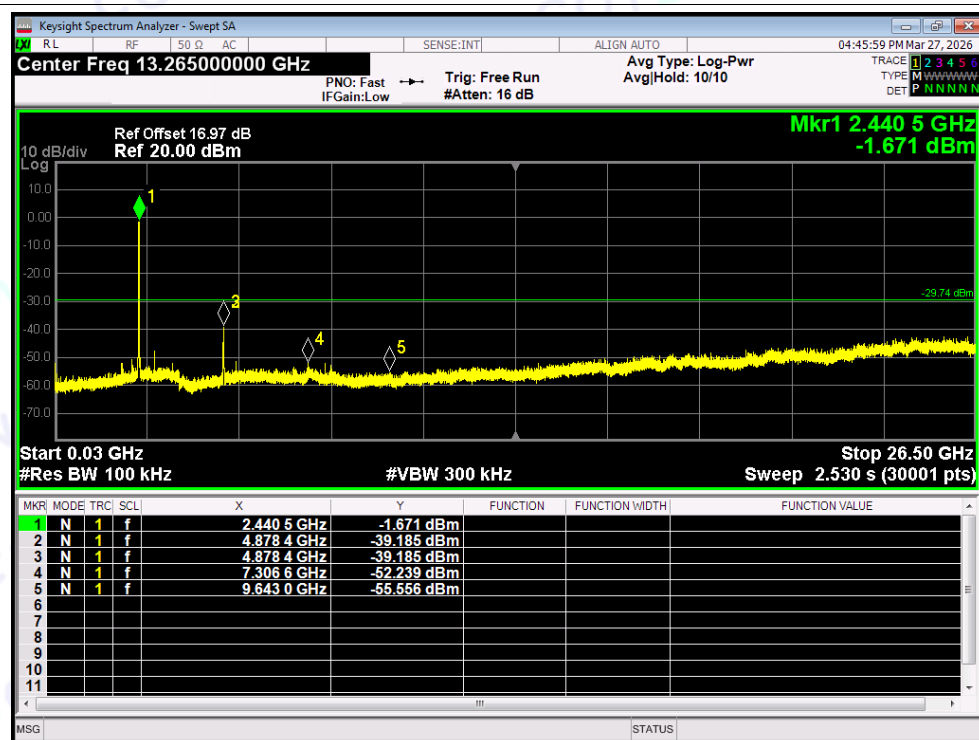
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



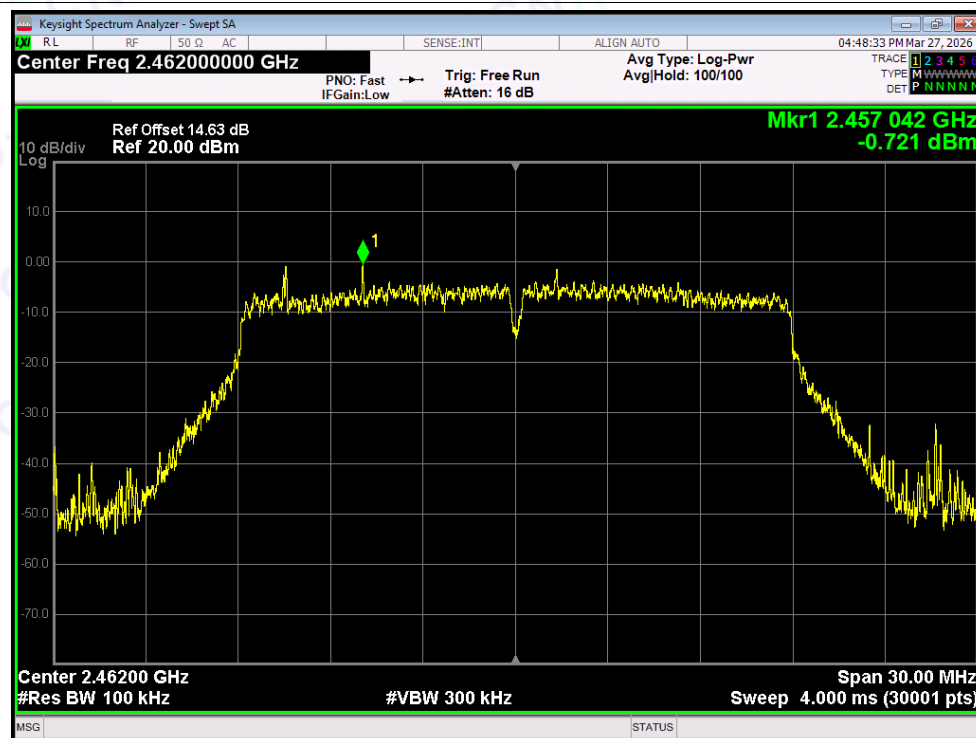
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



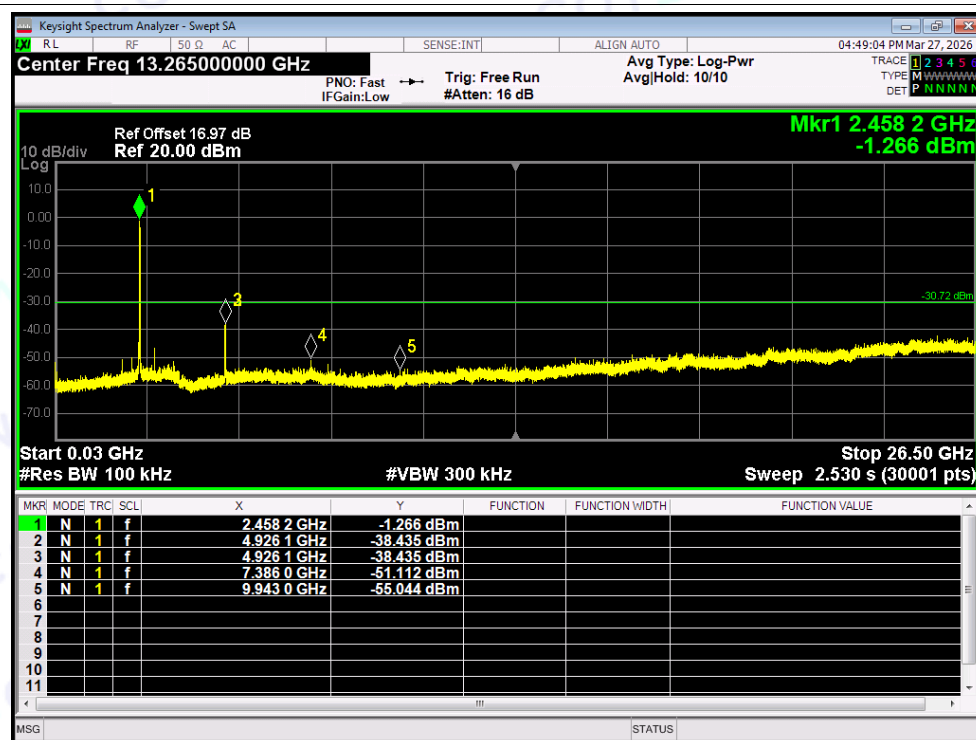
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



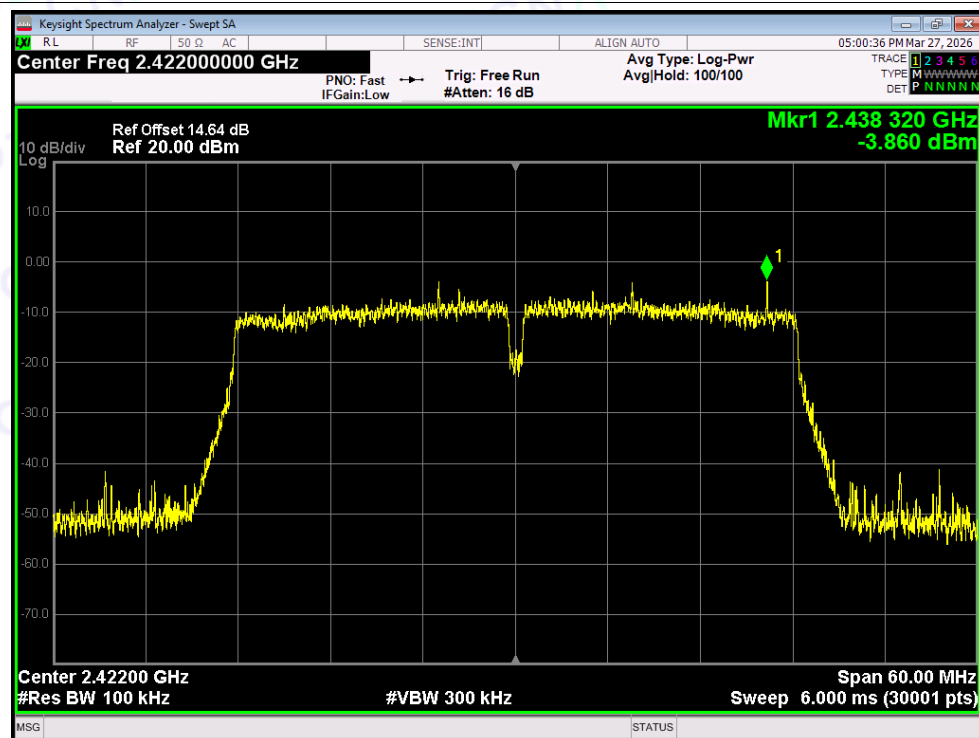
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



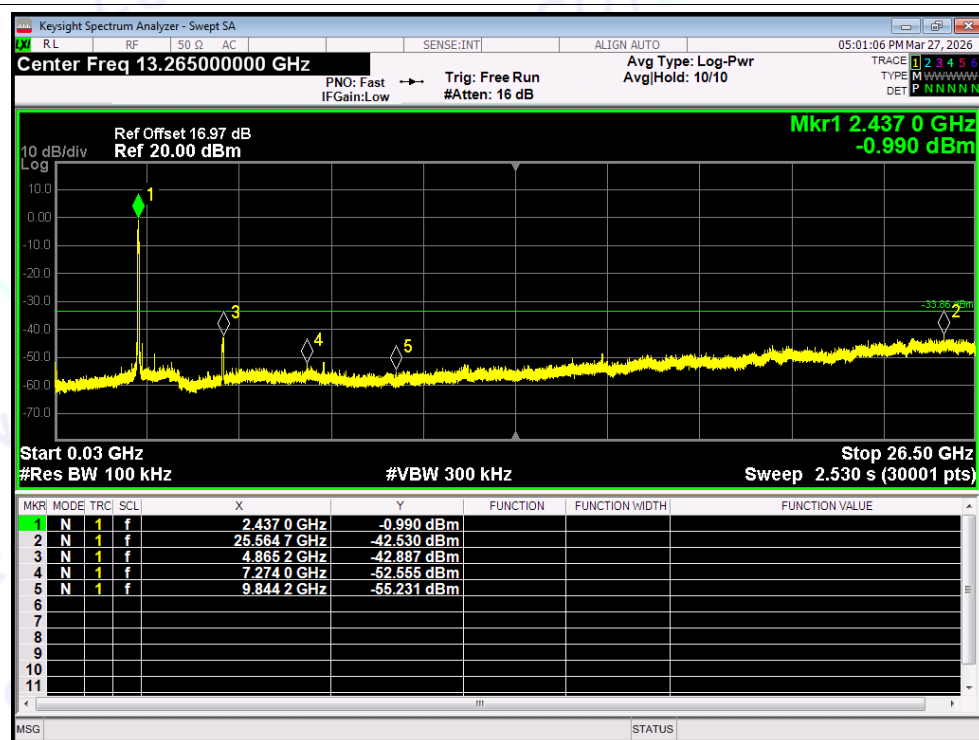
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



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



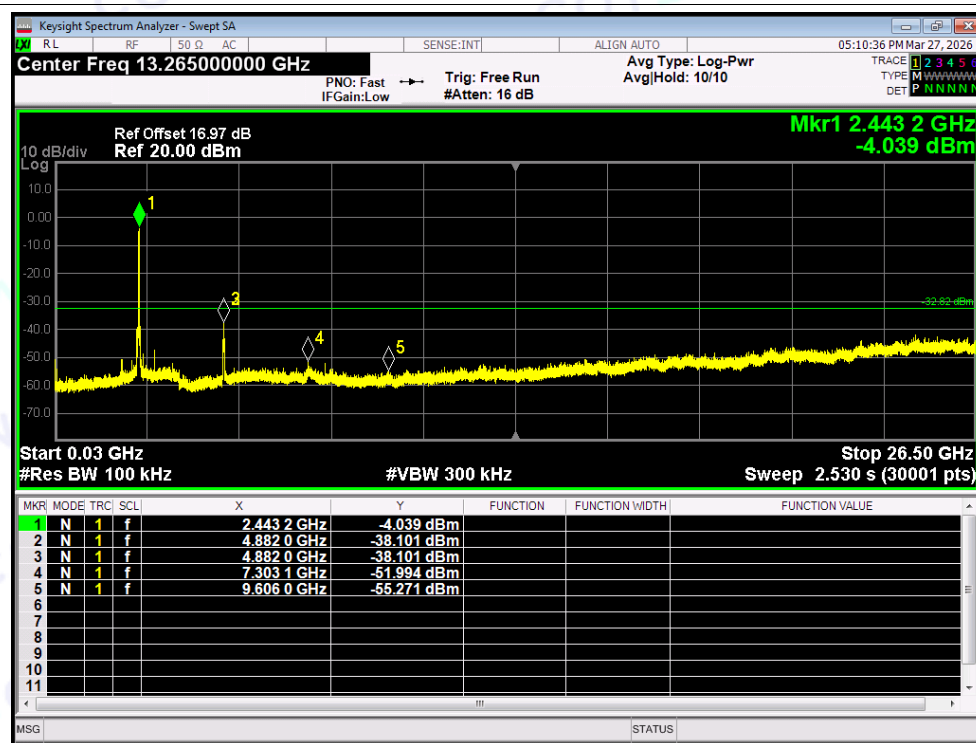
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Emission



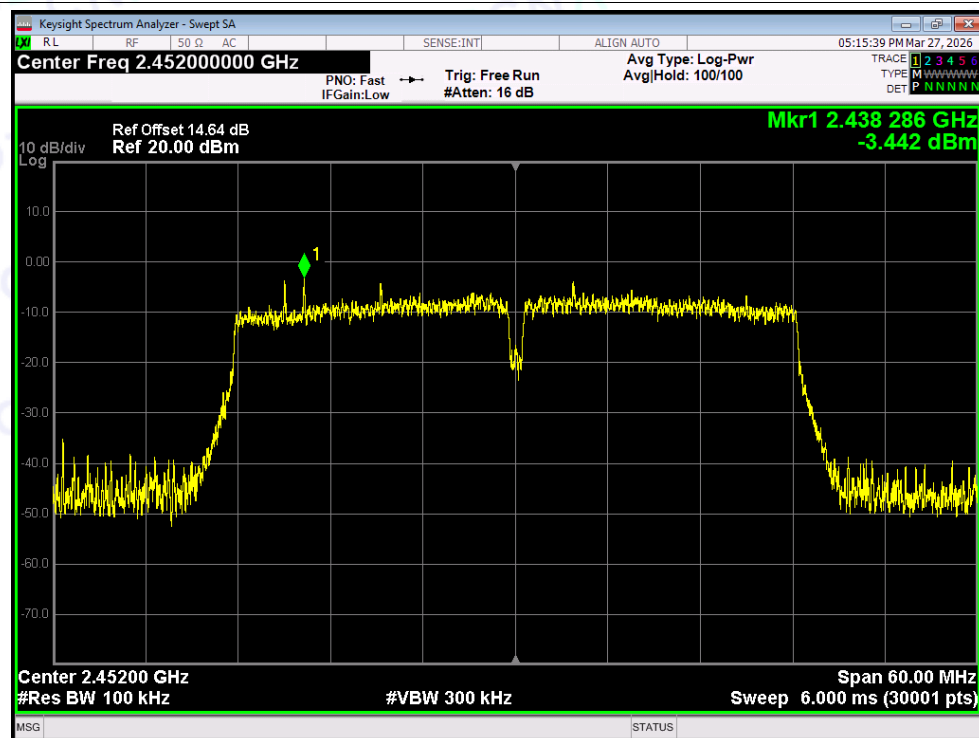
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



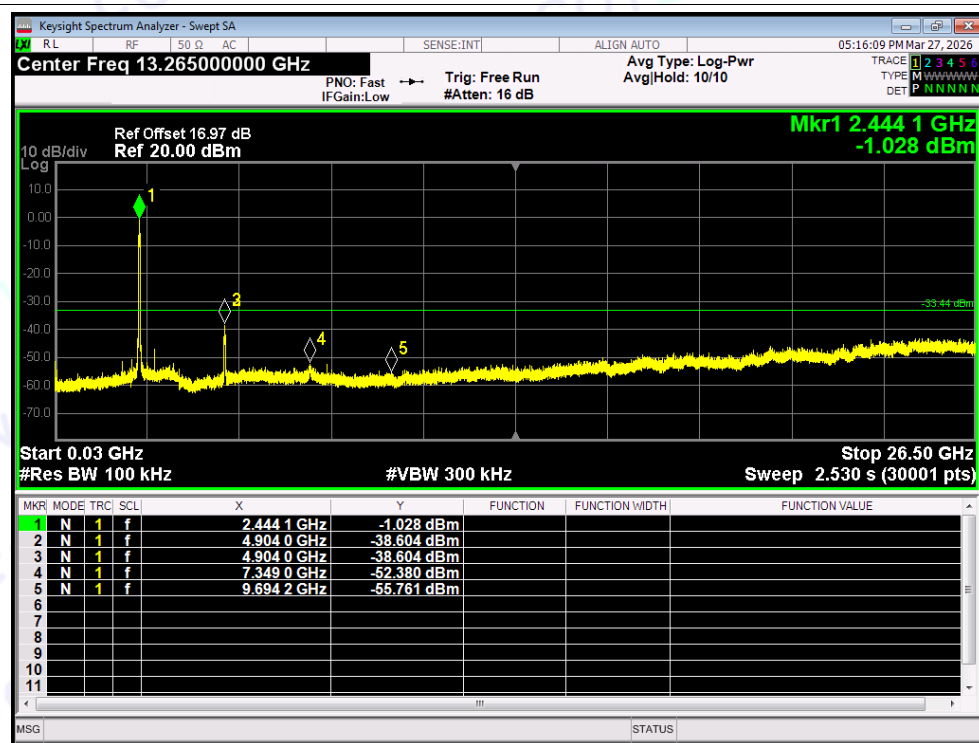
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



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



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



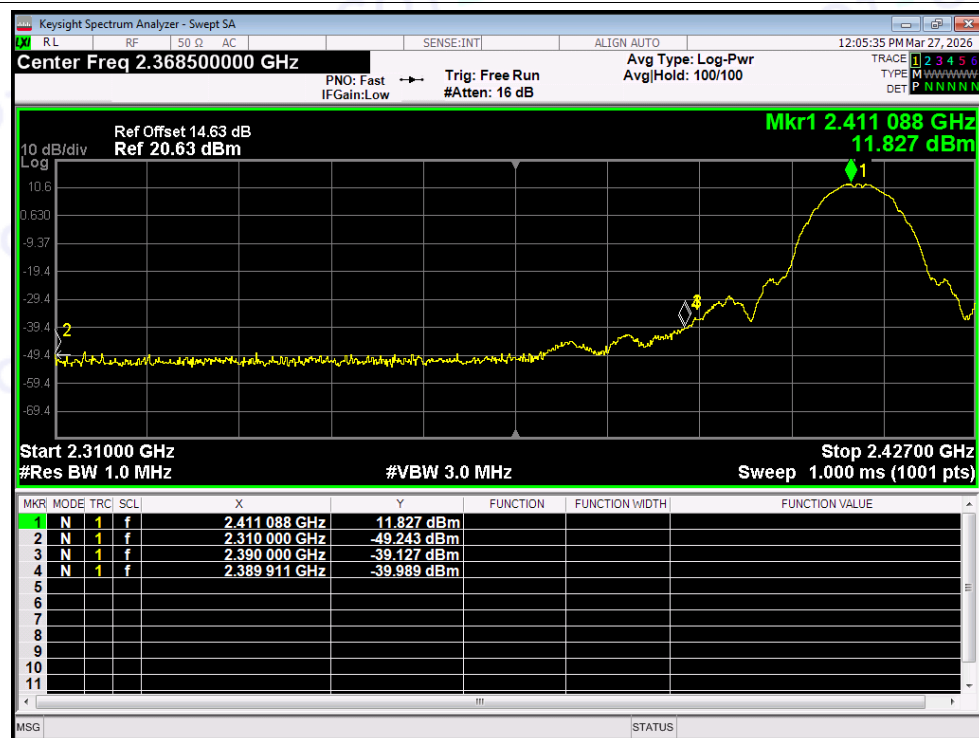
8. Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-49.24	2.95	-	48.02	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-59.81	2.95	2.06	39.51	Average	54	Pass
NVNT	b	2412	Ant1	2389.911	-39.99	2.95	-	57.27	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-48.27	2.95	2.06	51.05	Average	54	Pass
NVNT	b	2412	Ant1	2390	-39.13	2.95	-	58.13	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-47.95	2.95	2.06	51.37	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-49.88	2.95	-	47.38	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-57.67	2.95	2.92	42.51	Average	54	Pass
NVNT	b	2462	Ant1	2488.022	-45.64	2.95	-	51.62	Peak	74	Pass
NVNT	b	2462	Ant1	2487.439	-55.18	2.95	2.92	45	Average	54	Pass
NVNT	b	2462	Ant1	2500	-50.52	2.95	-	46.74	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-59.16	2.95	2.92	41.02	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.04	2.95	-	47.22	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.9	2.95	2.31	40.67	Average	54	Pass
NVNT	g	2412	Ant1	2387.922	-35.95	2.95	-	61.31	Peak	74	Pass
NVNT	g	2412	Ant1	2389.794	-52.31	2.95	2.31	47.26	Average	54	Pass
NVNT	g	2412	Ant1	2390	-43.11	2.95	-	54.15	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-53.29	2.95	2.31	46.28	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-39.61	2.95	-	57.65	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-52.14	2.95	2.32	47.44	Average	54	Pass
NVNT	g	2462	Ant1	2490.195	-33.44	2.95	-	63.82	Peak	74	Pass
NVNT	g	2462	Ant1	2484.577	-50.93	2.95	2.32	48.65	Average	54	Pass
NVNT	g	2462	Ant1	2500	-46.35	2.95	-	50.91	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-55.25	2.95	2.32	44.33	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-52.01	2.95	-	45.25	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-59.39	2.95	2.4	40.27	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2387.22	-33.63	2.95	-	63.63	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2387.922	-51.85	2.95	2.4	47.81	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-40.85	2.95	-	56.41	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-51.97	2.95	2.4	47.69	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-41.69	2.95	-	55.57	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-52.94	2.95	2.4	46.72	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2486.856	-28.64	2.95	-	68.62	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2489.082	-49.52	2.95	2.4	50.14	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-44.98	2.95	-	52.28	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-56.02	2.95	2.4	43.64	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2310	-48.99	2.95	-	48.27	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2310	-58.13	2.95	2.47	41.6	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2384.266	-31.71	2.95	-	65.55	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2386.396	-48.96	2.95	2.47	50.77	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2390	-40.9	2.95	-	56.36	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2390	-50.97	2.95	2.47	48.76	Average	54	Pass

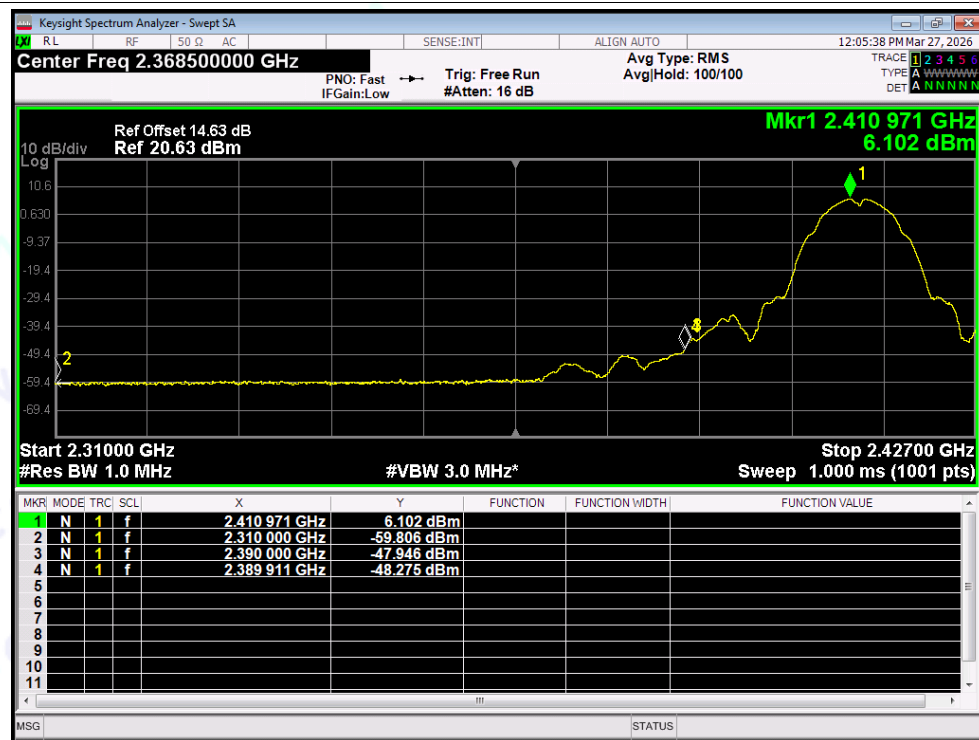
NVNT	n(HT40)	2452	Ant1	2483.5	-36.31	2.95	-	60.95	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-47.39	2.95	2.47	52.34	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2485.336	-26.18	2.95	-	71.08	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.698	-45.83	2.95	2.47	53.9	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2500	-40.1	2.95	-	57.16	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2500	-51.26	2.95	2.47	48.47	Average	54	Pass

Test Graphs

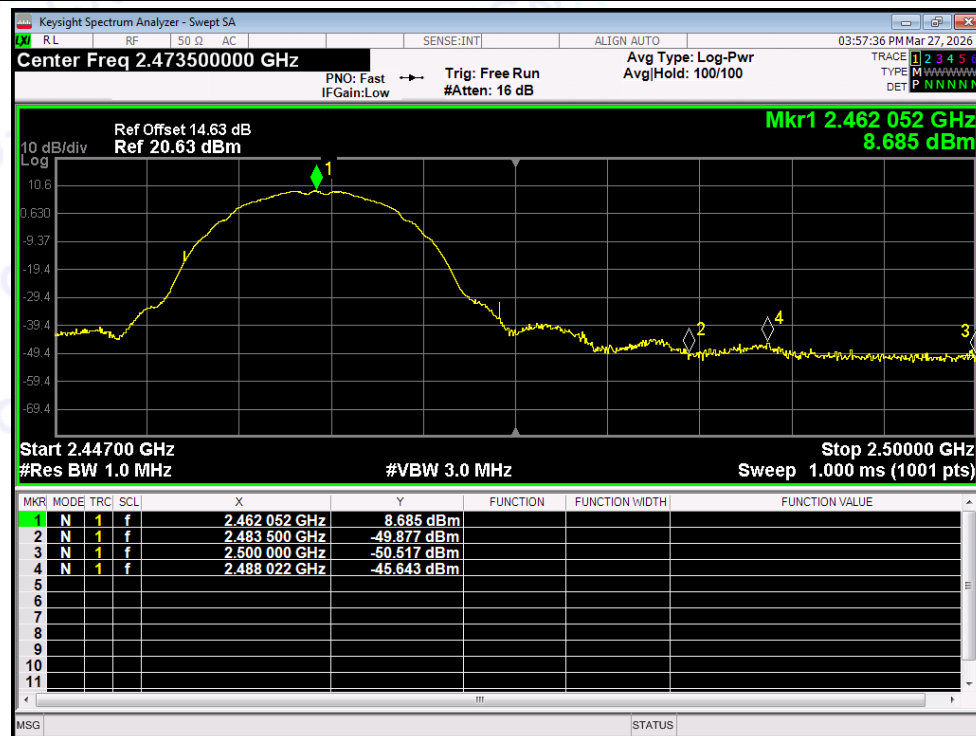
Restrict Band NVNT b 2412MHz Ant1 Peak



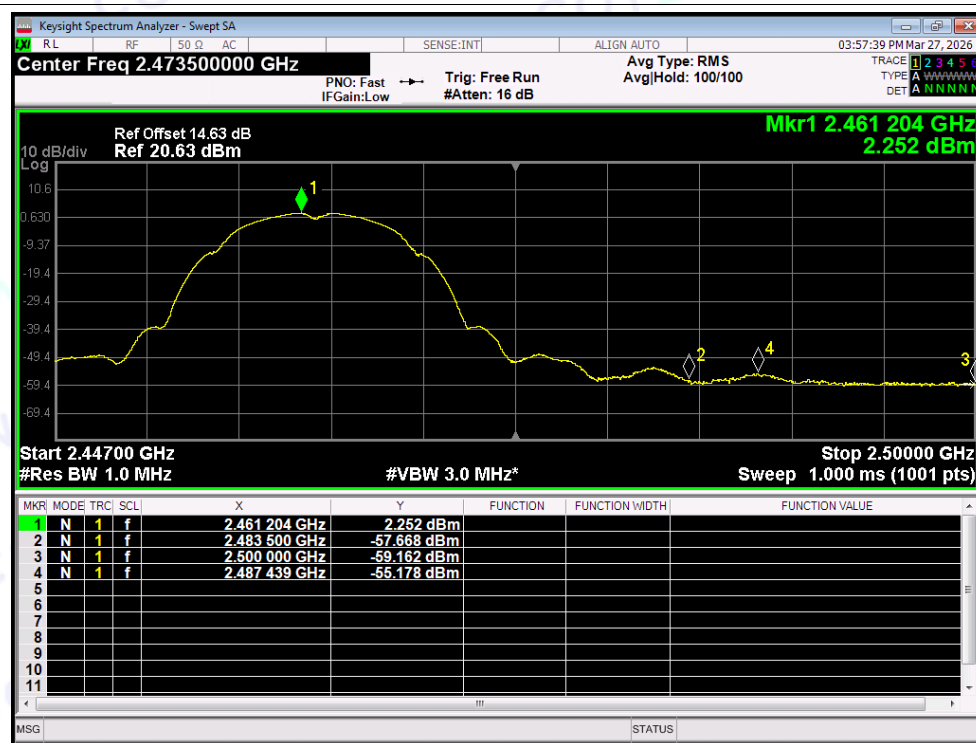
Restrict Band NVNT b 2412MHz Ant1 Average



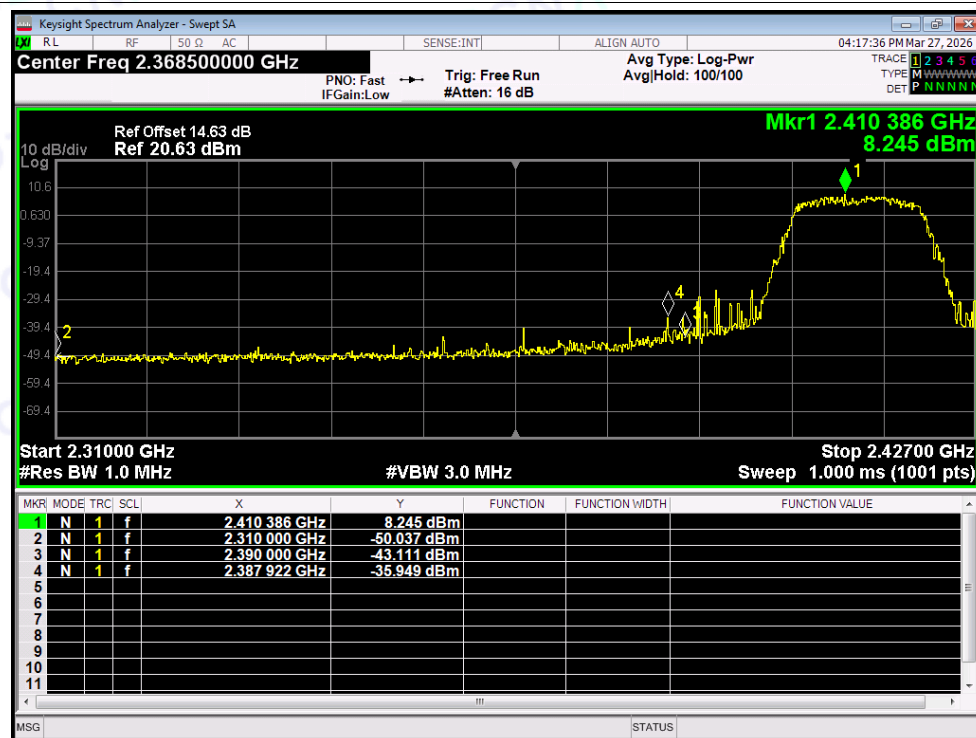
Restrict Band NVNT b 2462MHz Ant1 Peak



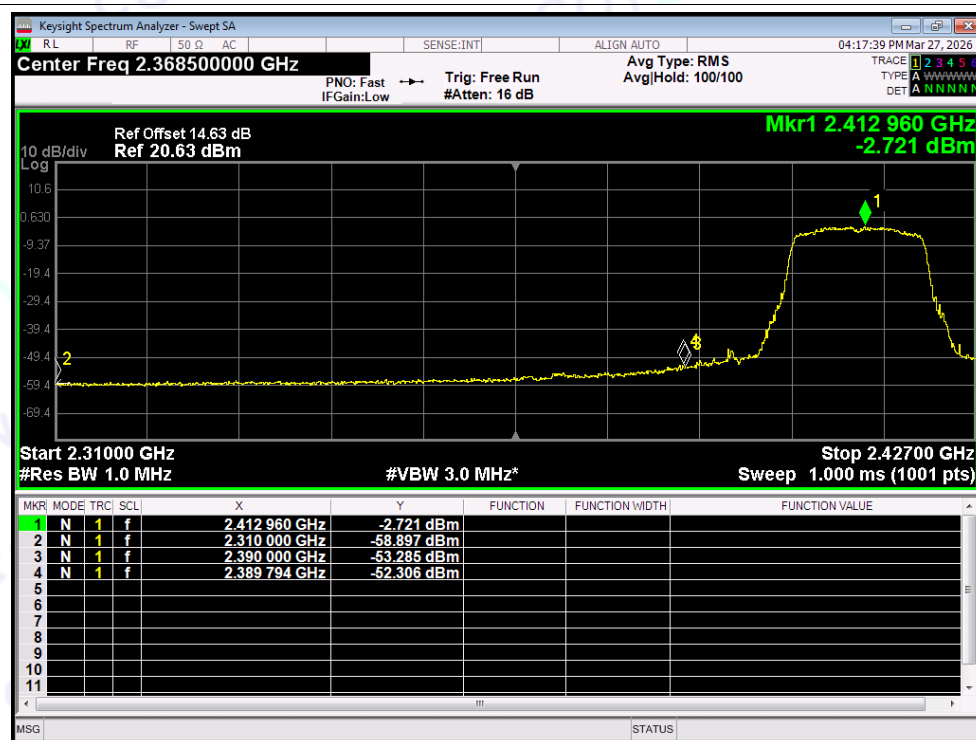
Restrict Band NVNT b 2462MHz Ant1 Average



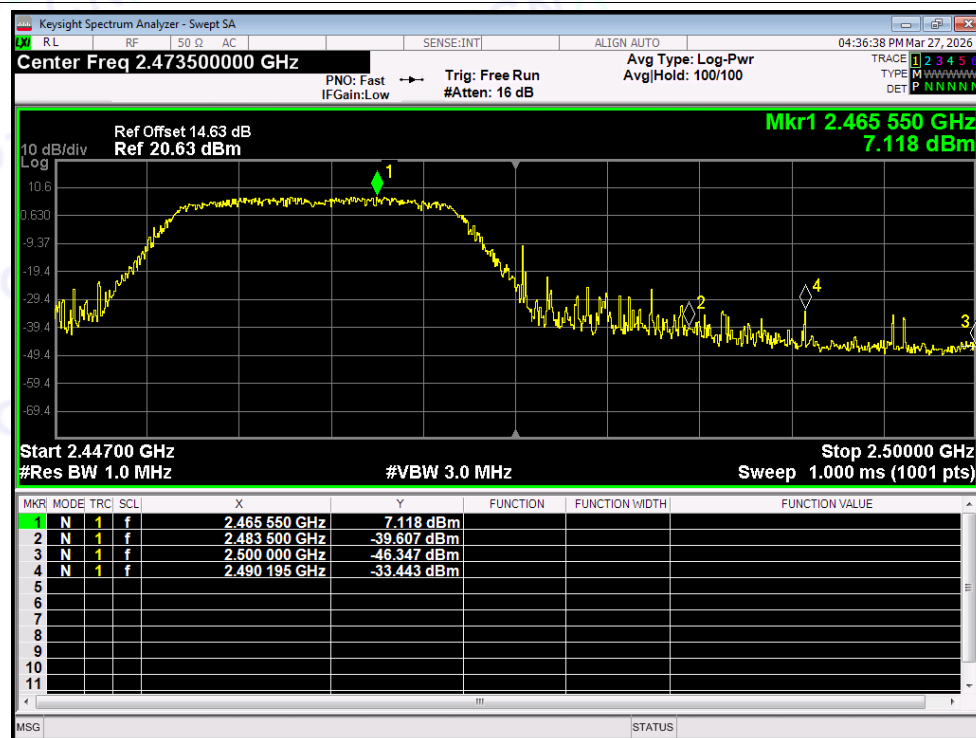
Restrict Band NVNT g 2412MHz Ant1 Peak



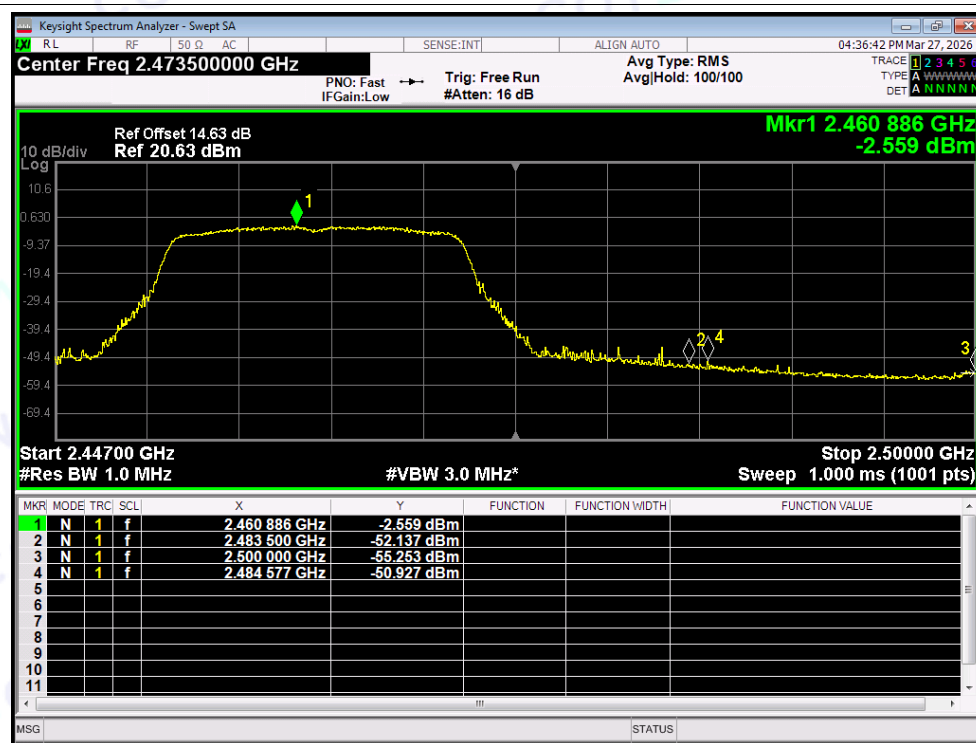
Restrict Band NVNT g 2412MHz Ant1 Average



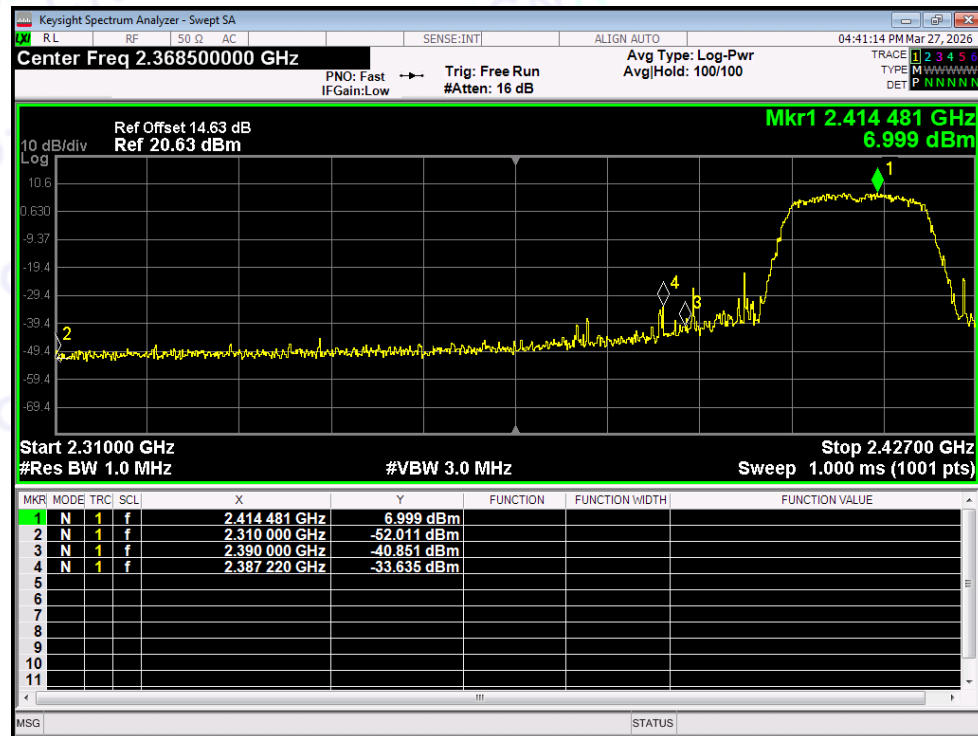
Restrict Band NVNT g 2462MHz Ant1 Peak



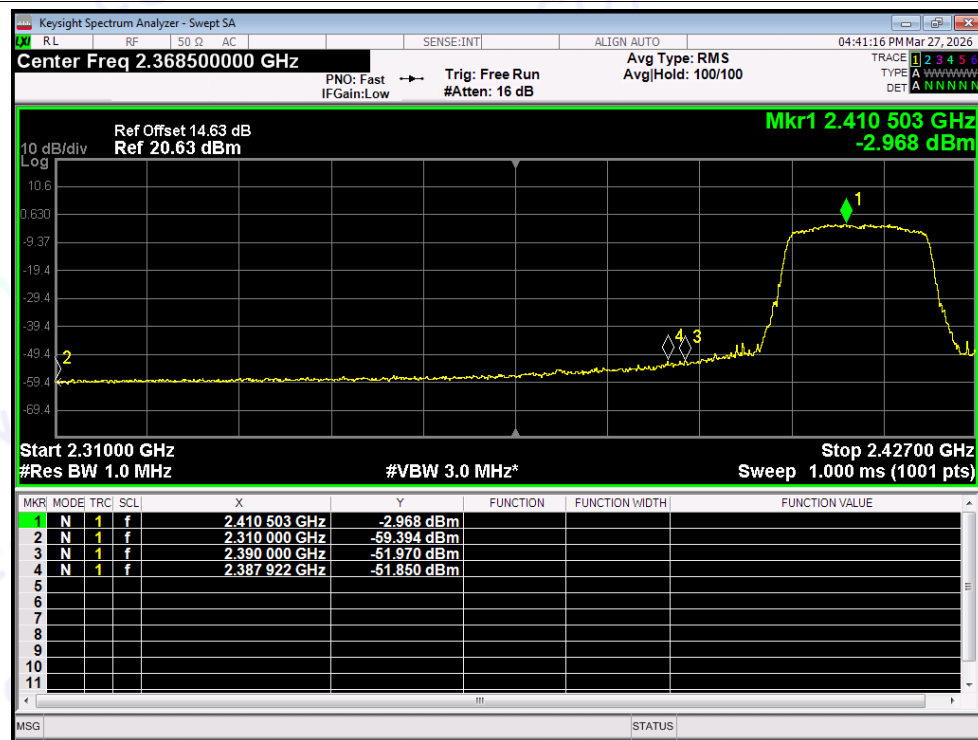
Restrict Band NVNT g 2462MHz Ant1 Average



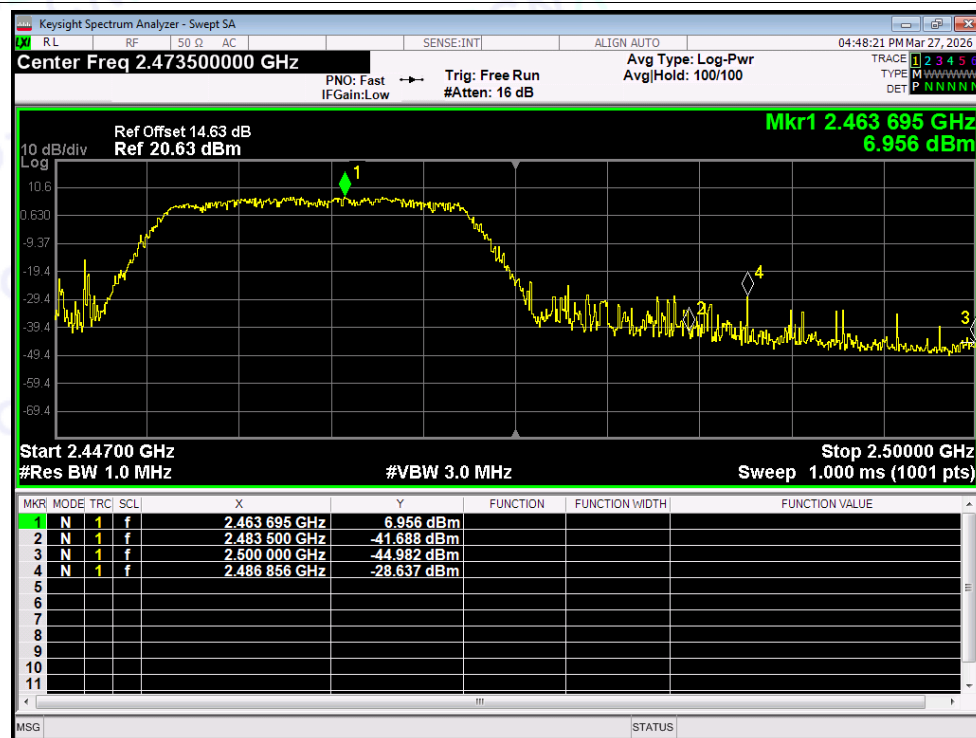
Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



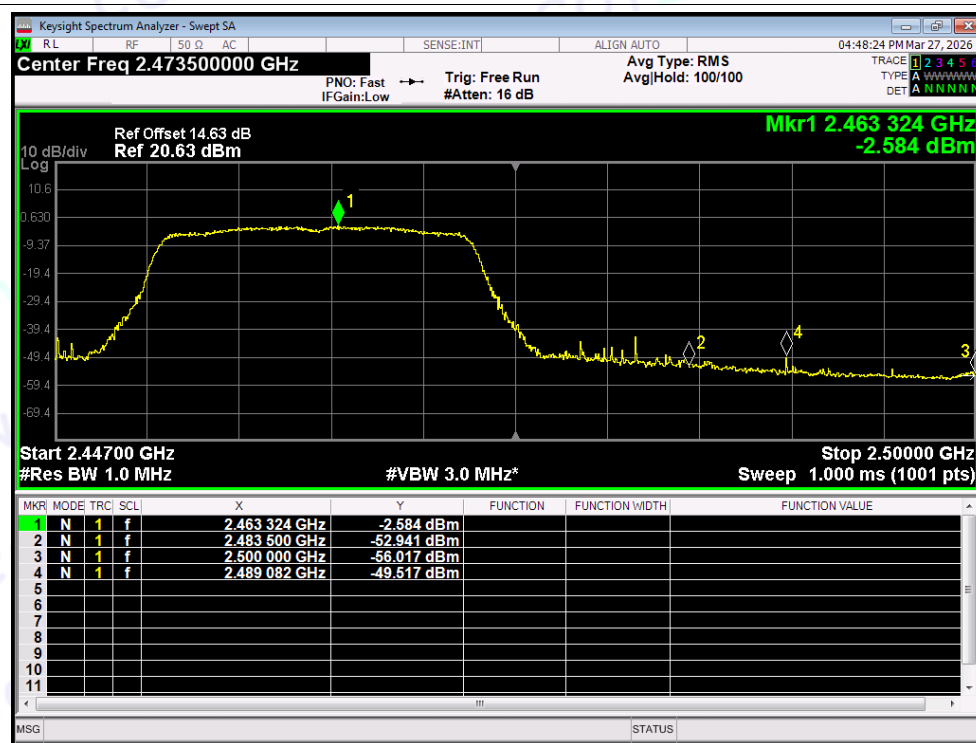
Restrict Band NVNT n(HT20) 2412MHz Ant1 Average



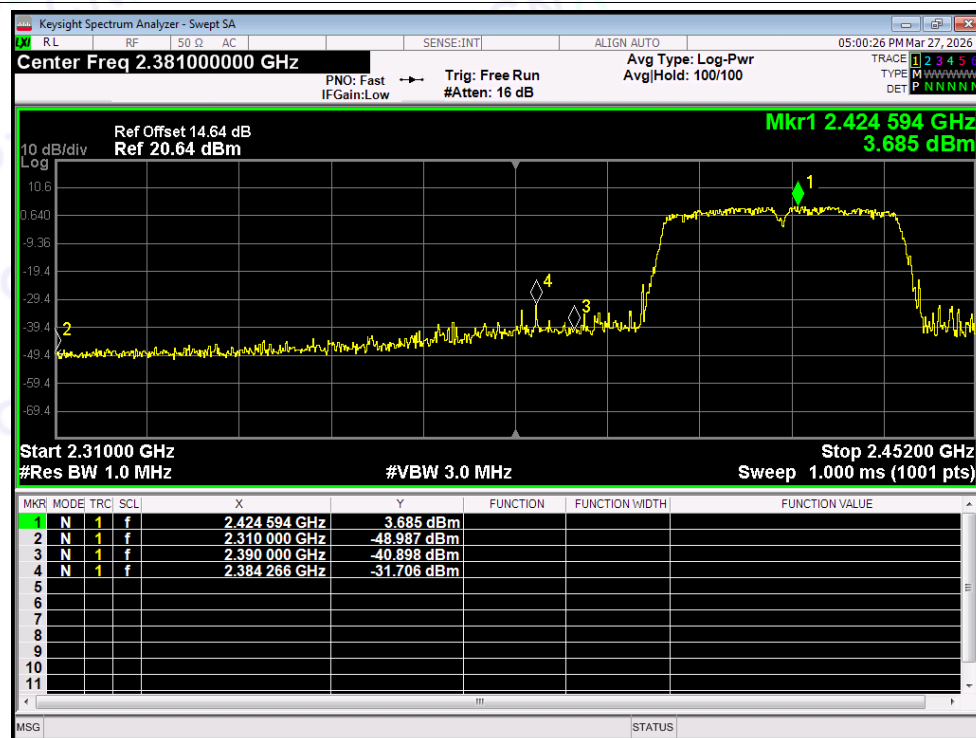
Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



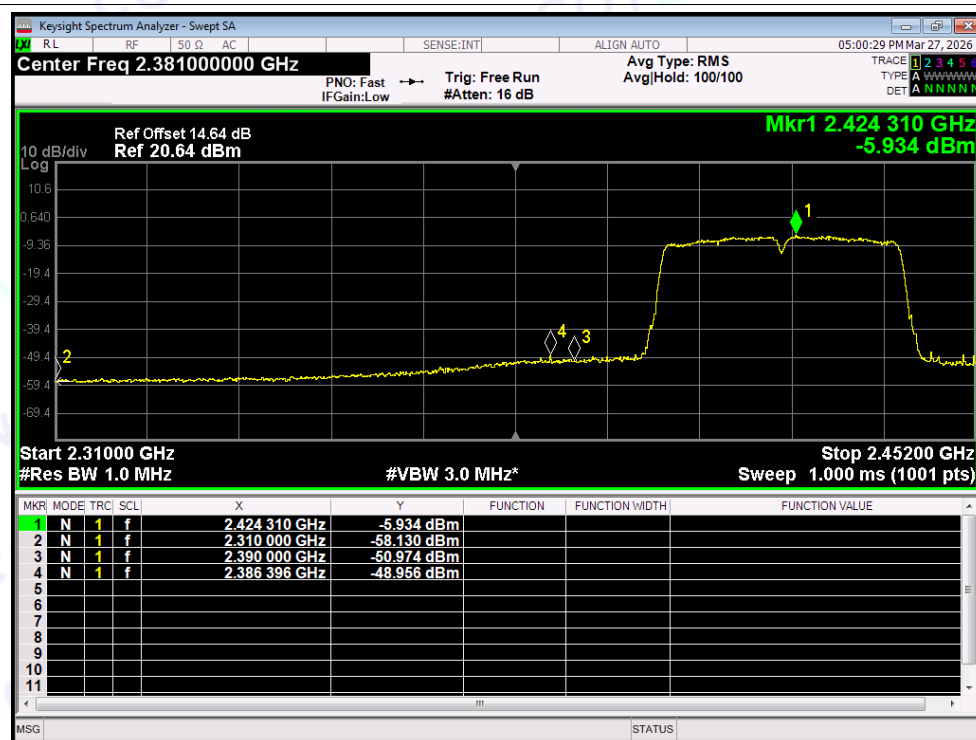
Restrict Band NVNT n(HT20) 2462MHz Ant1 Average



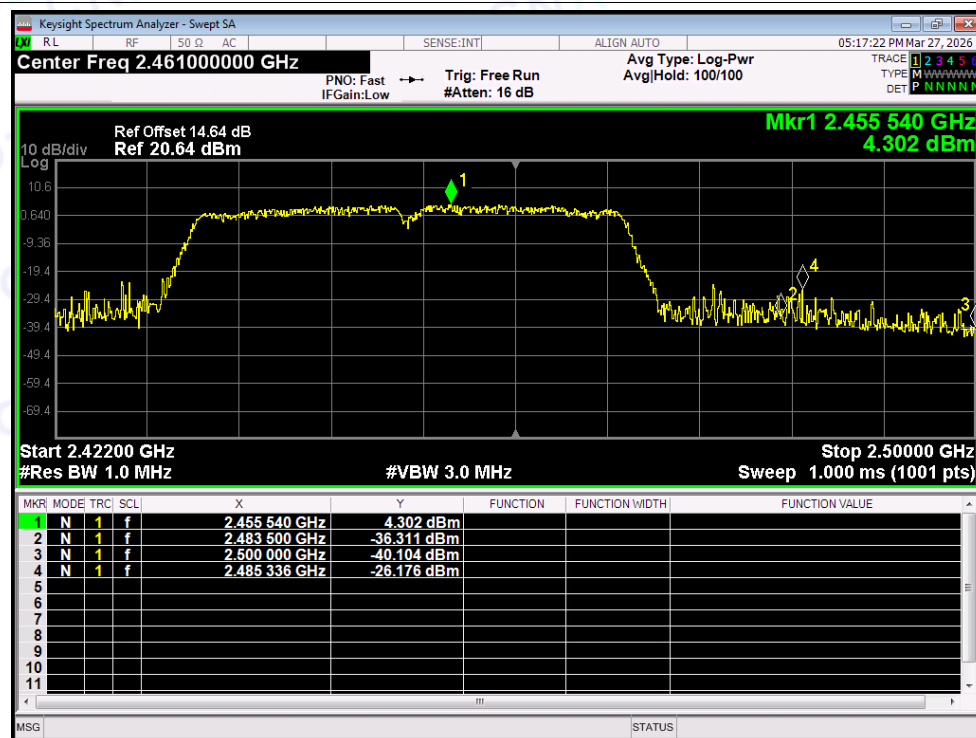
Restrict Band NVNT n(HT40) 2422MHz Ant1 Peak



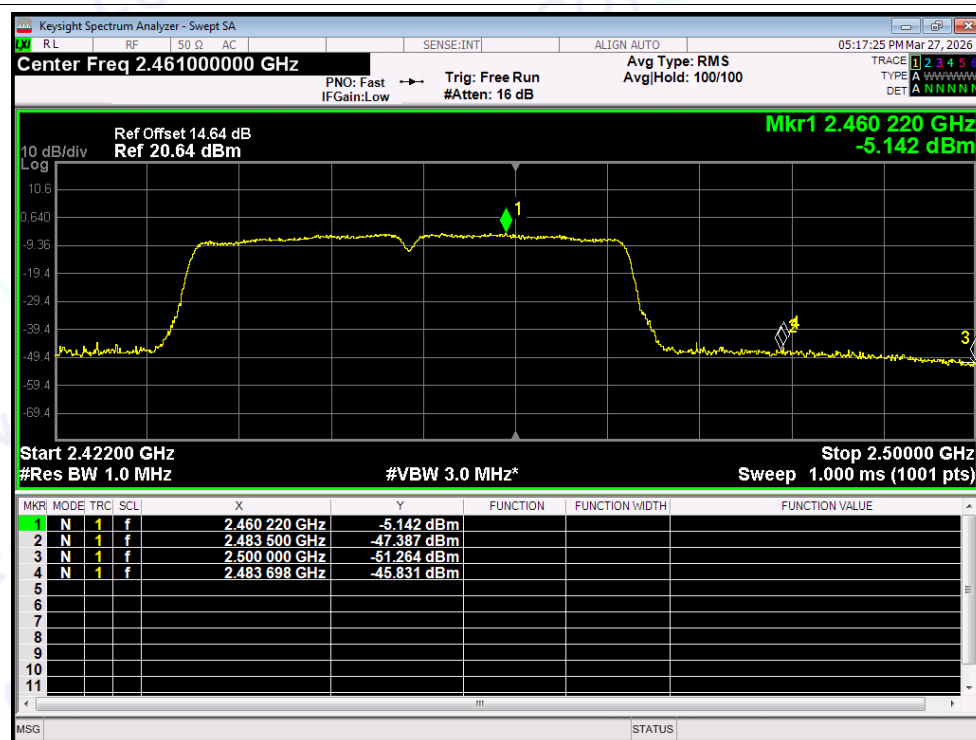
Restrict Band NVNT n(HT40) 2422MHz Ant1 Average



Restrict Band NVNT n(HT40) 2452MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2452MHz Ant1 Average



--- END OF REPORT ---