

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	LY06
Test Model:	LY06
Sample ID:	HC-C-202405-0335-01-02
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	52.2%
Test Voltage:	DC 3.7V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202405-0335-31 The report only show the worst case data.	

Contents

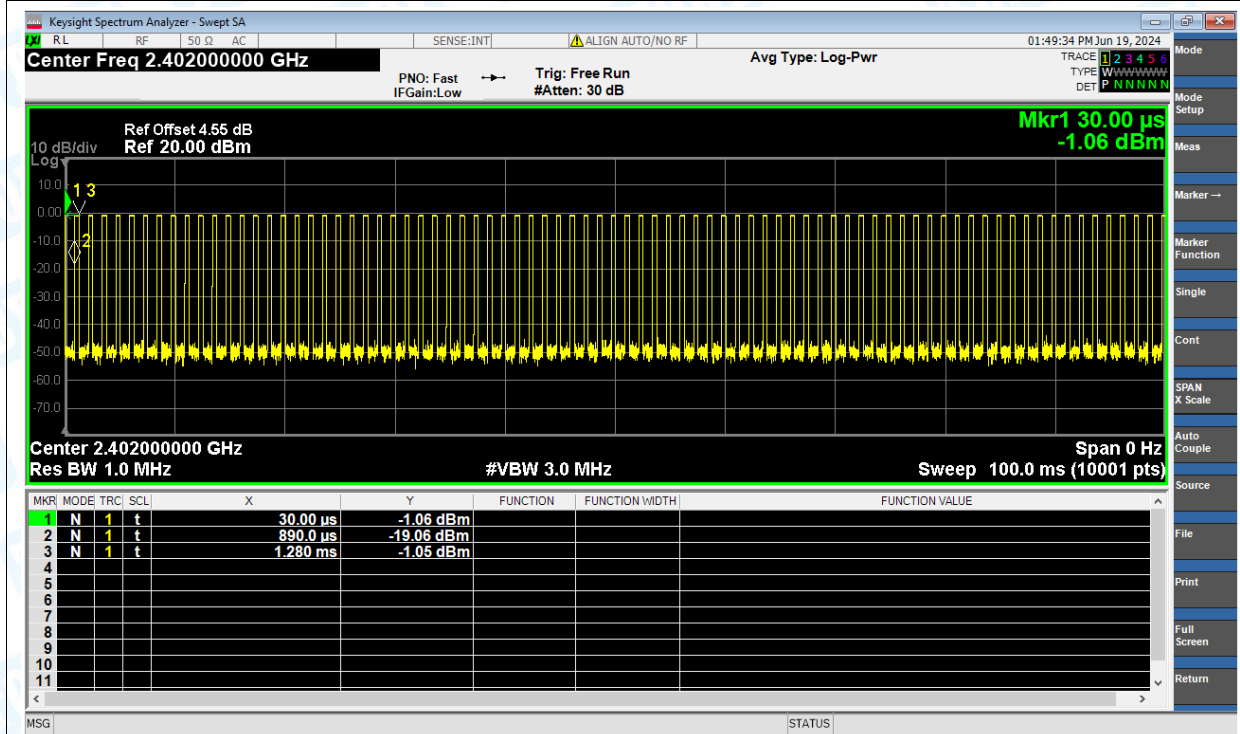
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1. Duty Cycle

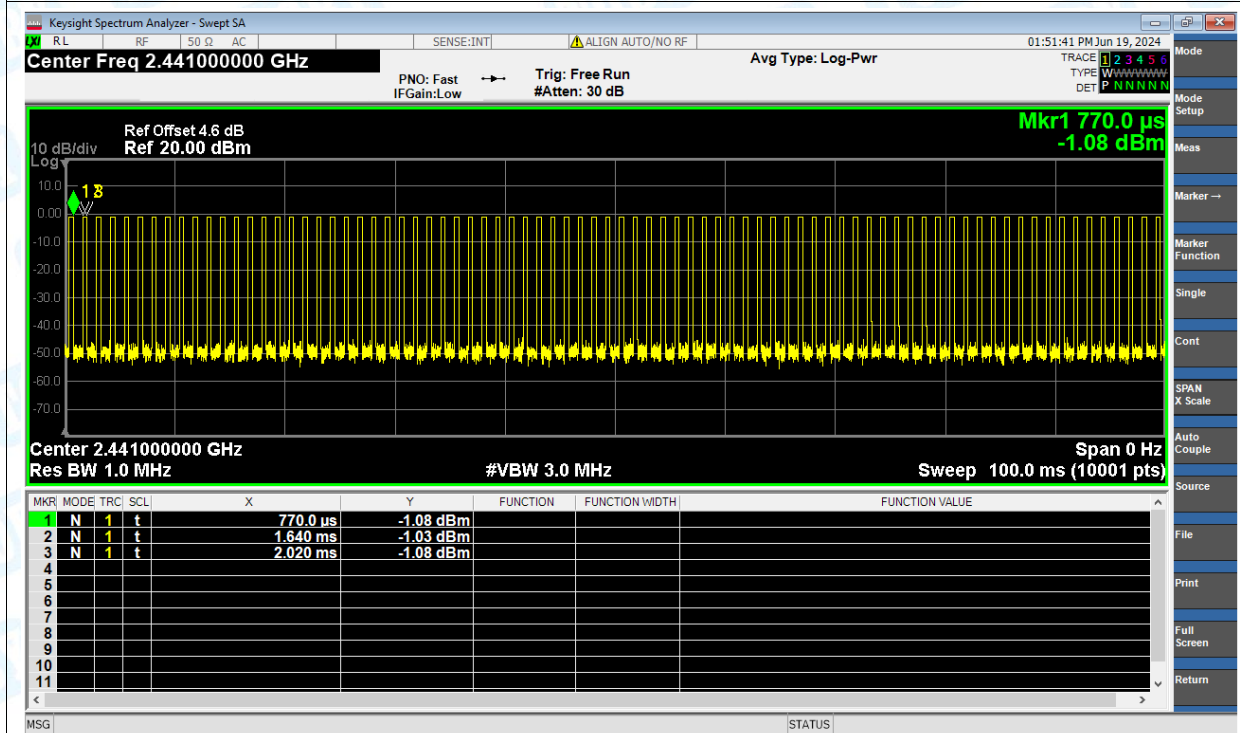
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

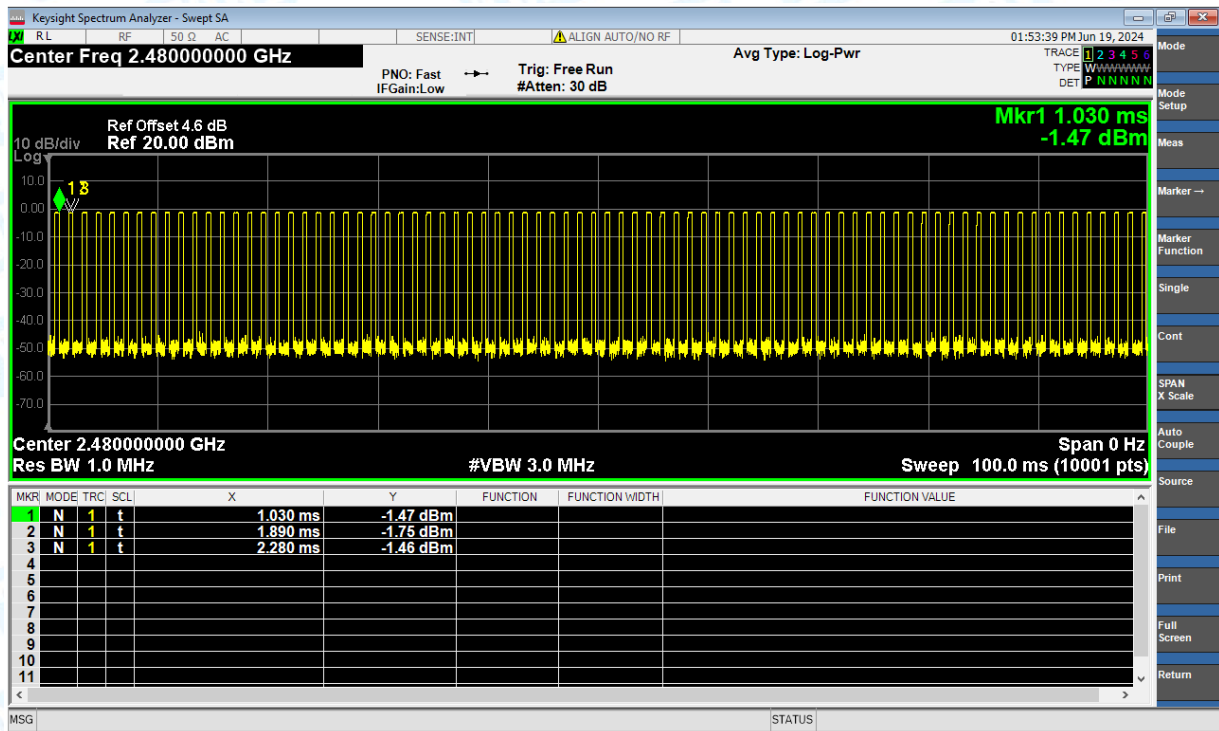
Duty Cycle NVNT 1-DH1 2402MHz Ant1



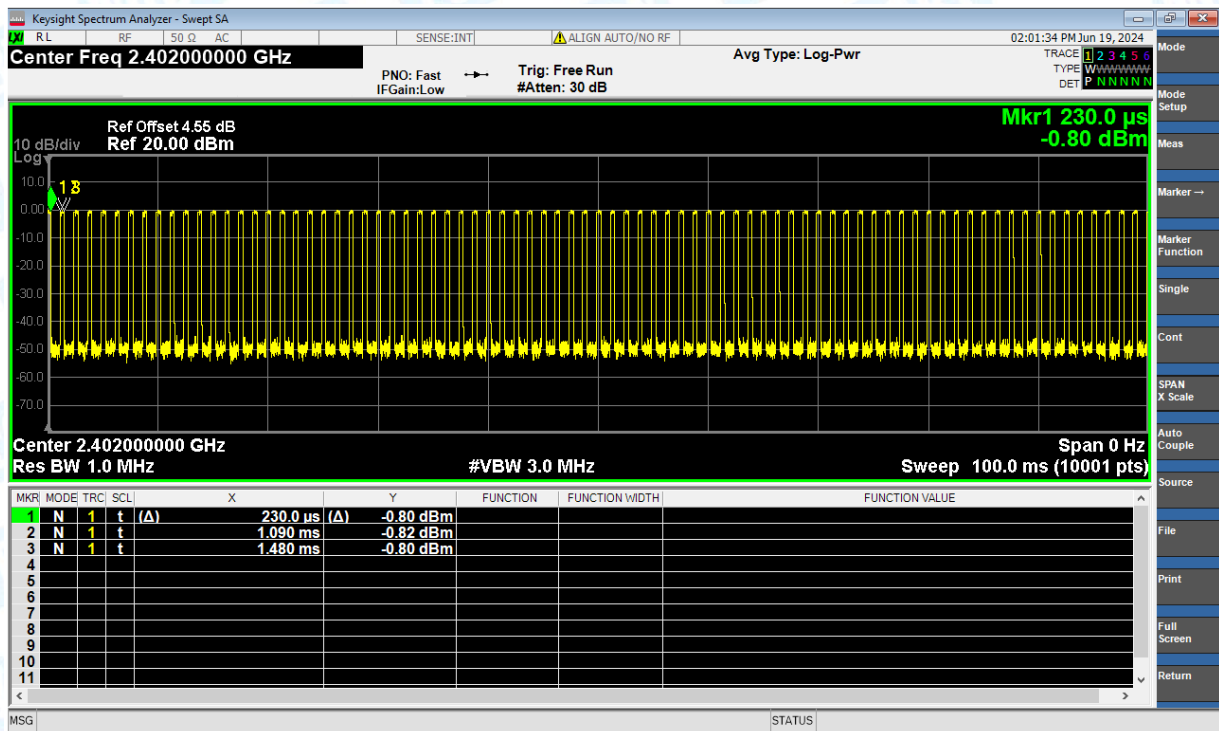
Duty Cycle NVNT 1-DH1 2441MHz Ant1



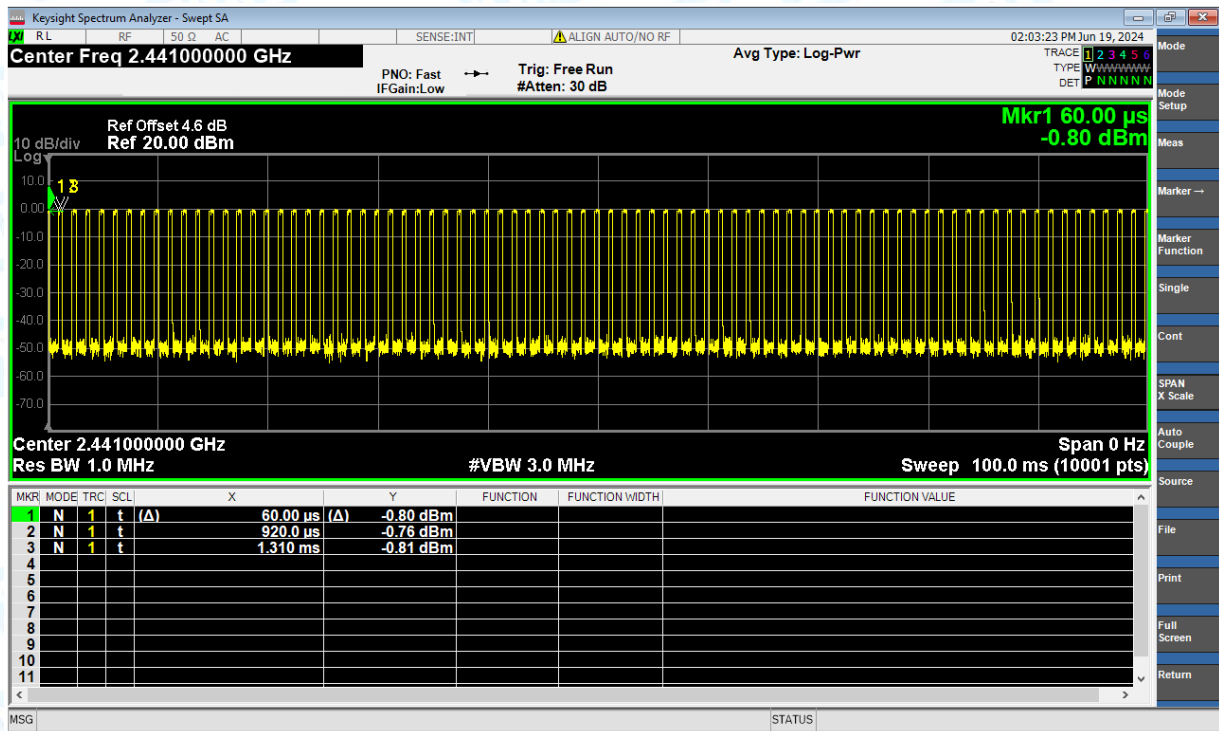
Duty Cycle NVNT 1-DH1 2480MHz Ant1



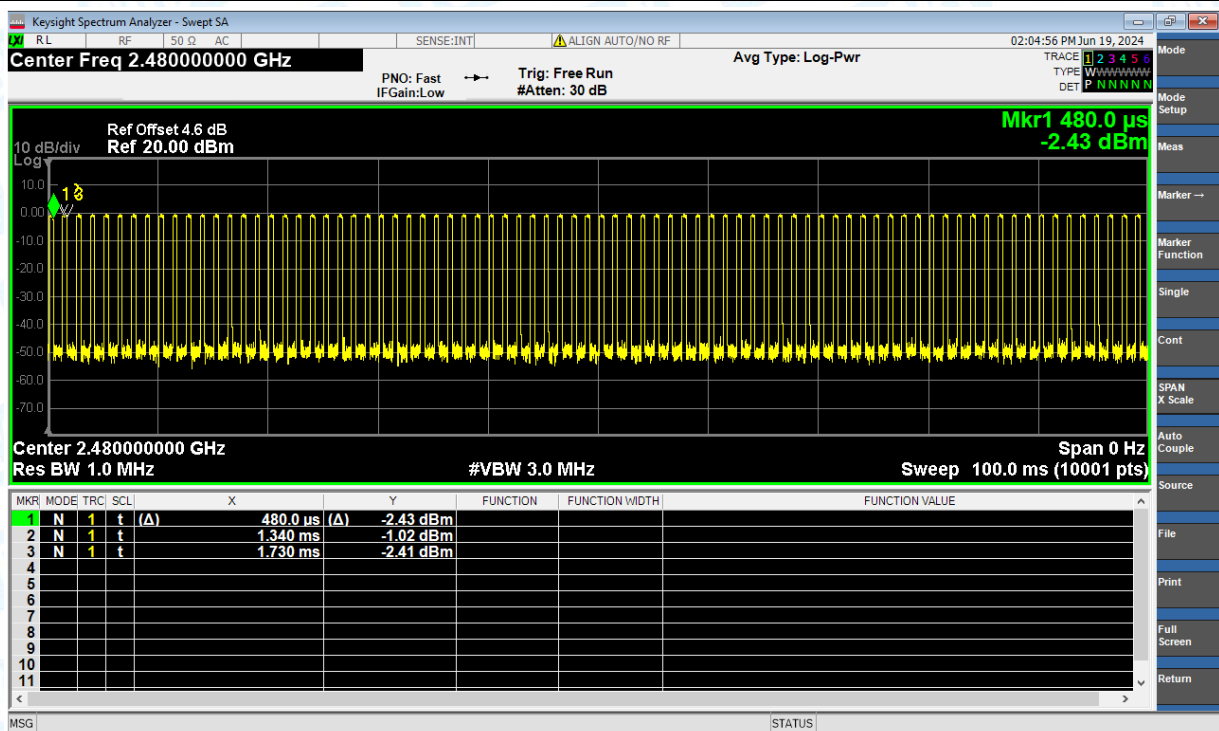
Duty Cycle NVNT 2-DH1 2402MHz Ant1



Duty Cycle NVNT 2-DH1 2441MHz Ant1



Duty Cycle NVNT 2-DH1 2480MHz Ant1

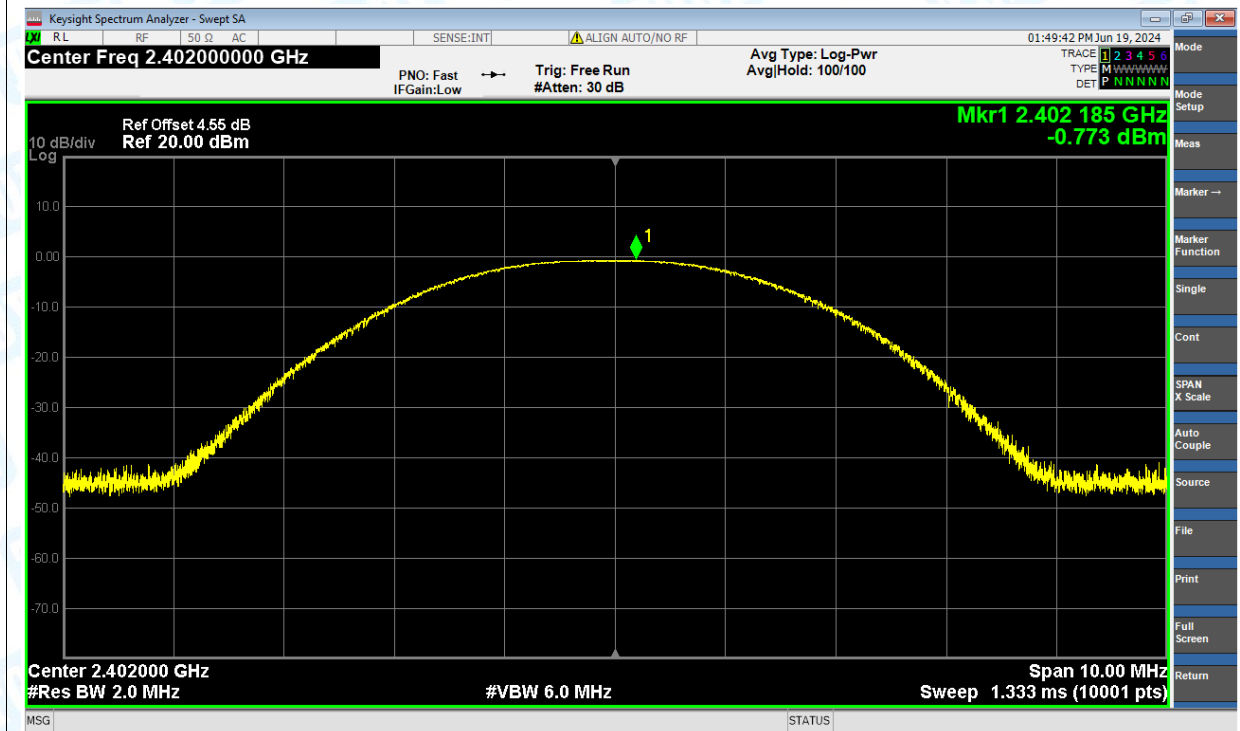


2. Maximum Conducted Output Power

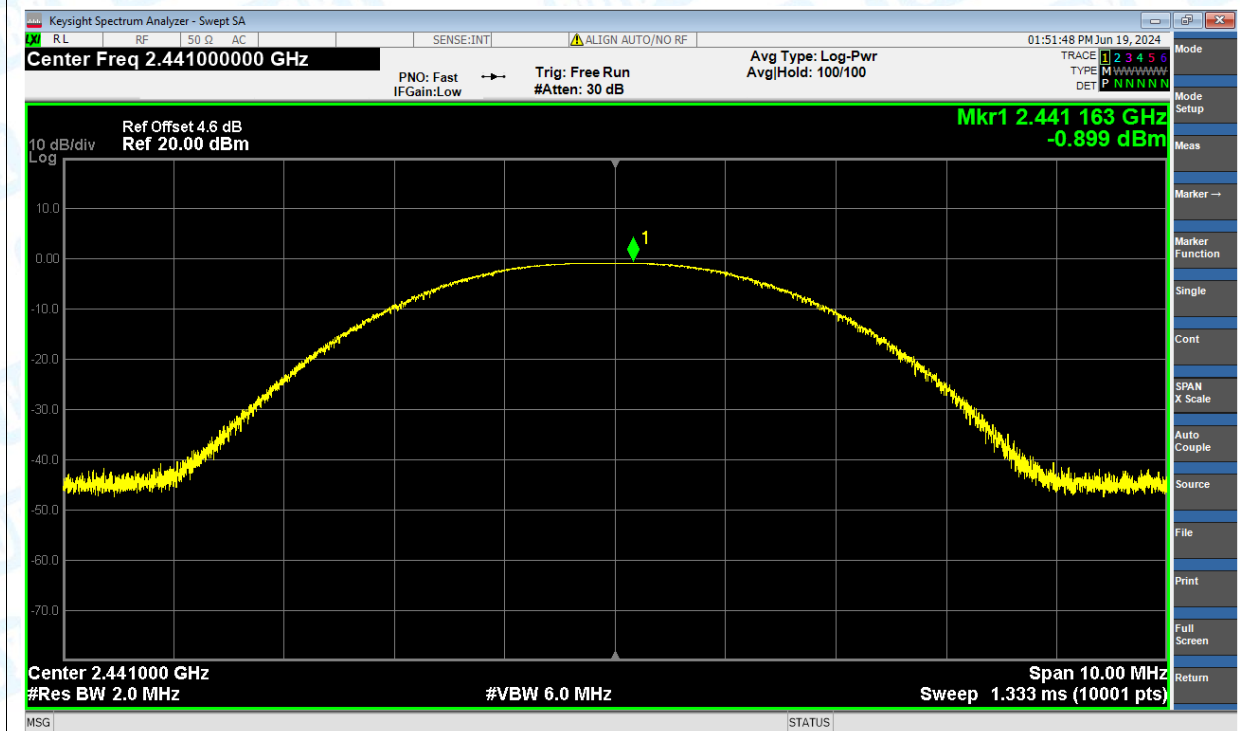
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-0.773	21	Pass
NVNT	1-DH1	2441	Ant1	-0.899	21	Pass
NVNT	1-DH1	2480	Ant1	-1.138	21	Pass
NVNT	1-DH3	2441	Ant1	-0.551	21	Pass
NVNT	1-DH5	2441	Ant1	-0.575	21	Pass
NVNT	2-DH1	2402	Ant1	0.36	21	Pass
NVNT	2-DH1	2441	Ant1	0.347	21	Pass
NVNT	2-DH1	2480	Ant1	-0.007	21	Pass
NVNT	2-DH3	2441	Ant1	0.343	21	Pass
NVNT	2-DH5	2441	Ant1	0.328	21	Pass

Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 1-DH3 2441MHz Ant1



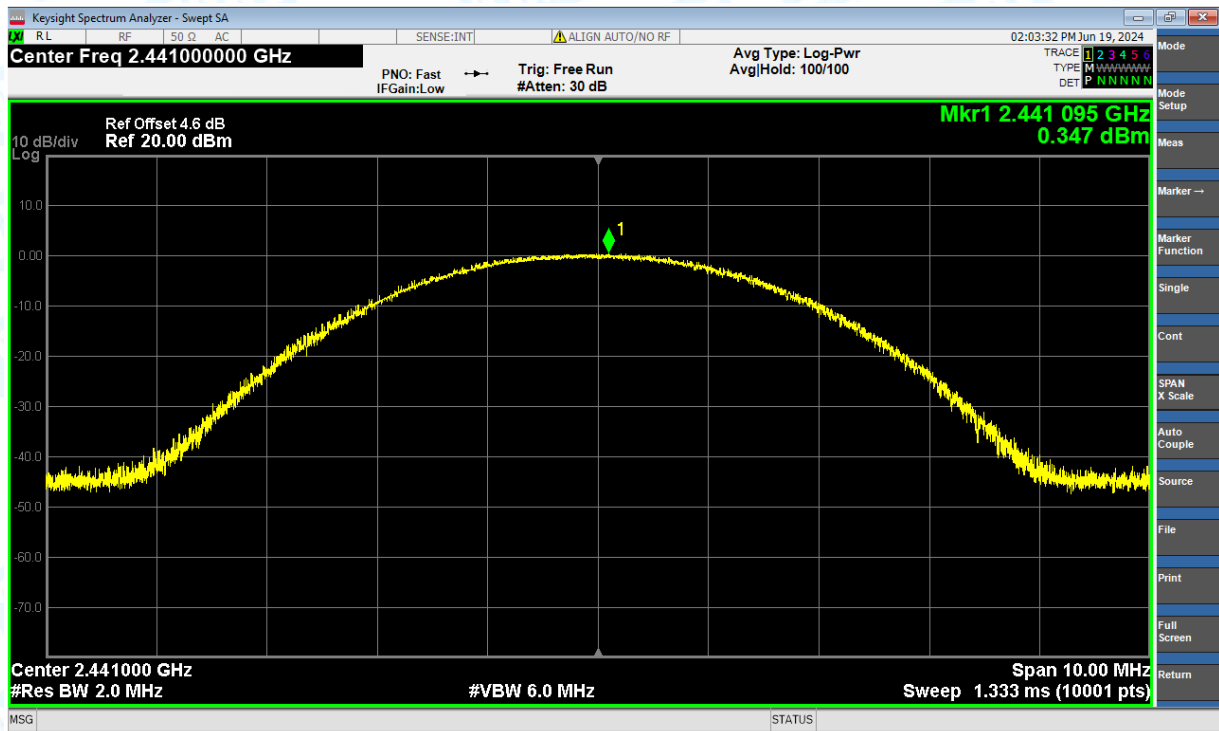
Power NVNT 1-DH5 2441MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1



Power NVNT 2-DH1 2441MHz Ant1



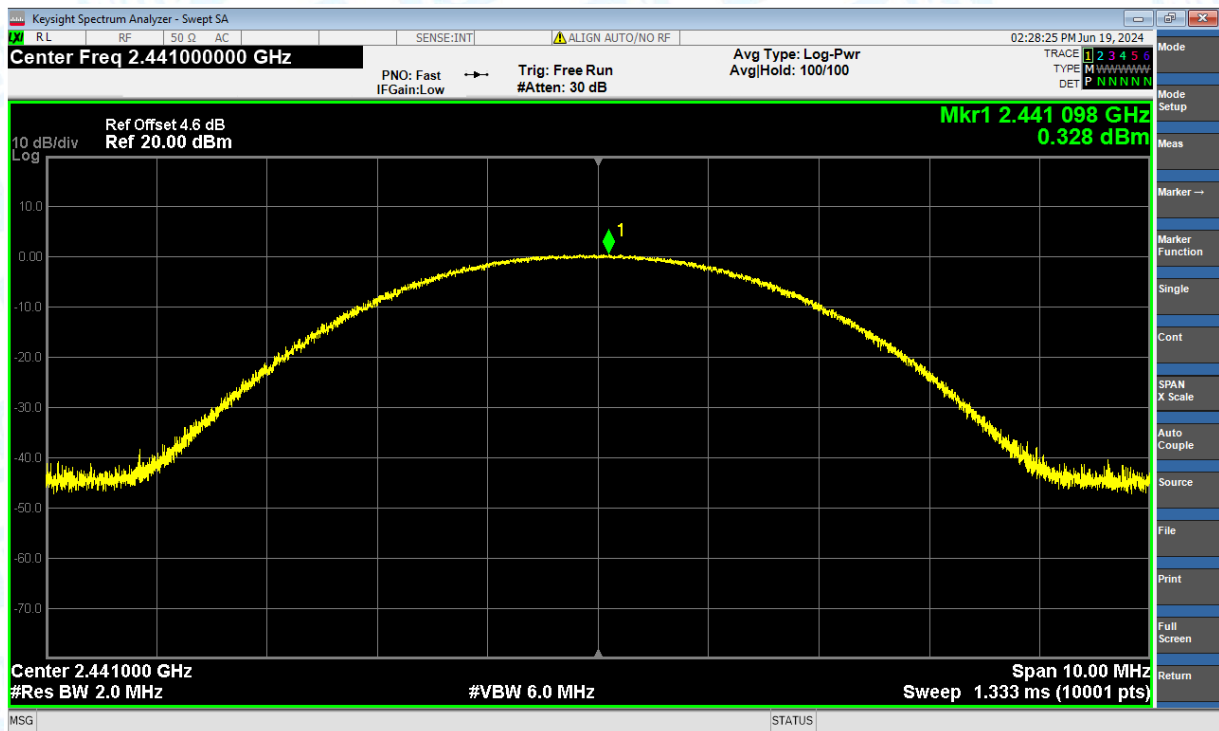
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1

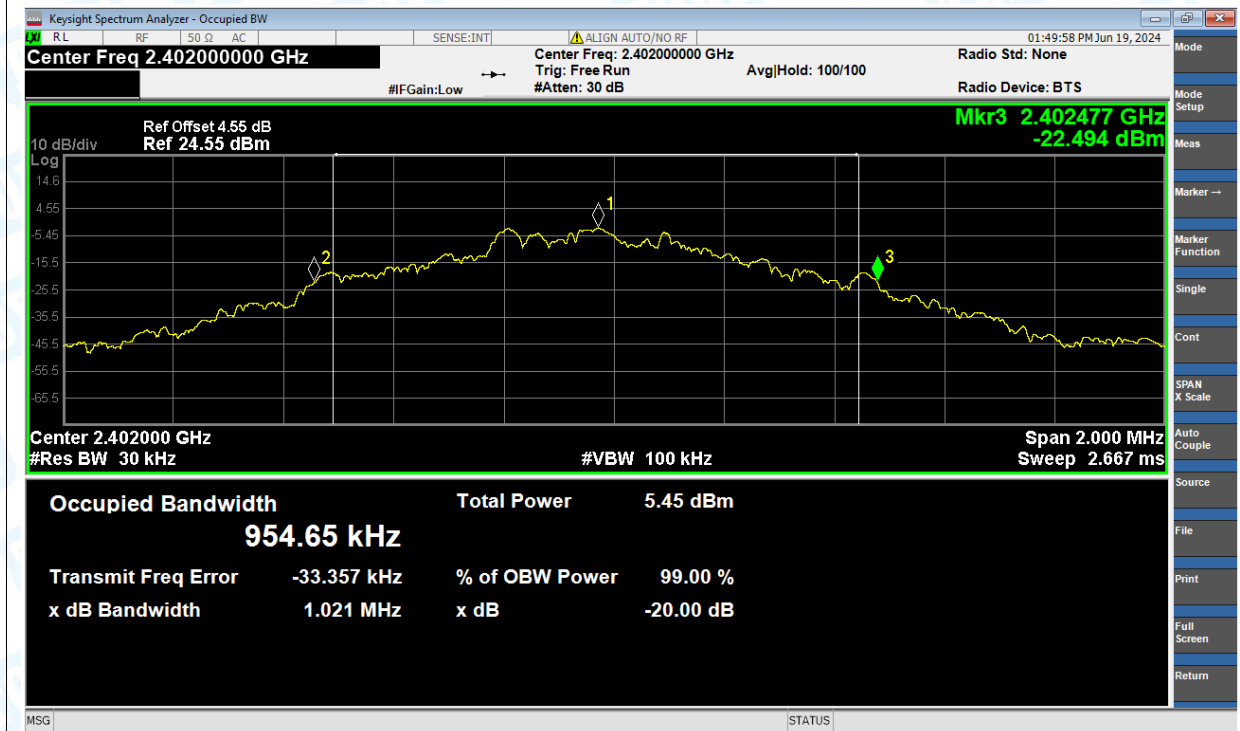


3. -20dB Bandwidth

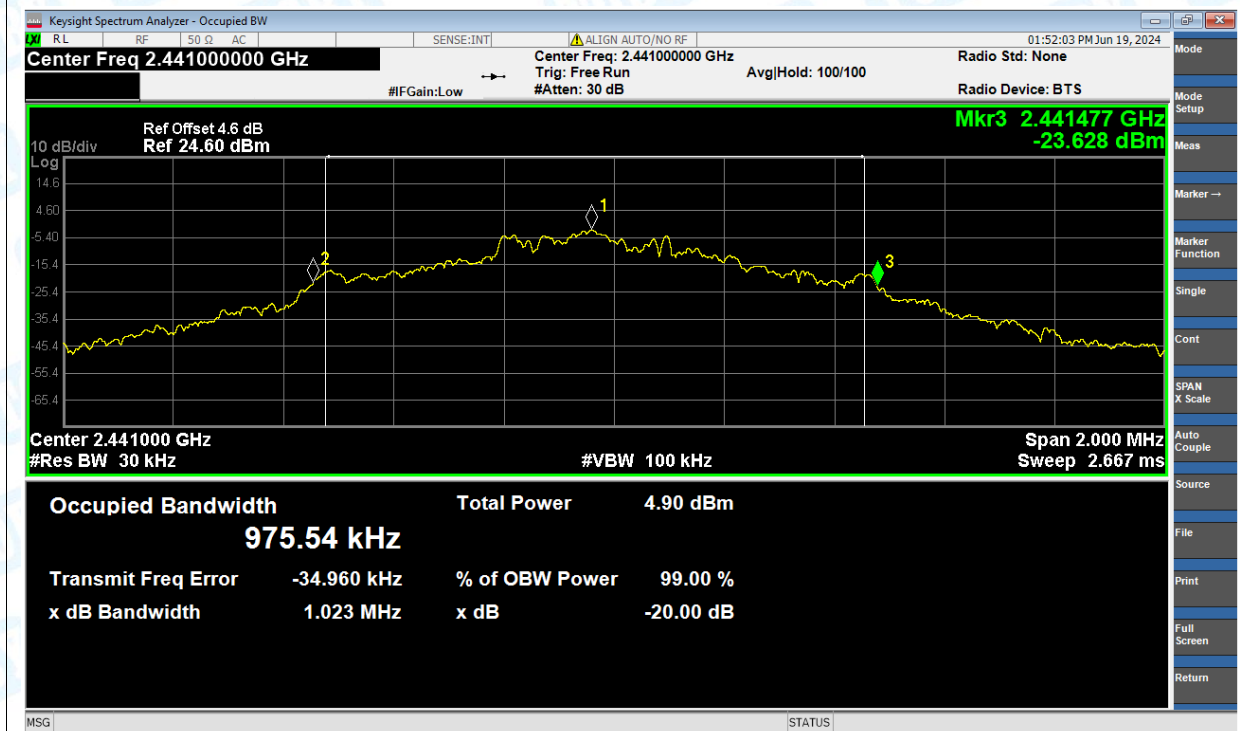
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	1.02	0	Pass
NVNT	1-DH1	2441	Ant1	1.02	0	Pass
NVNT	1-DH1	2480	Ant1	1.03	0	Pass
NVNT	2-DH1	2402	Ant1	1.26	0	Pass
NVNT	2-DH1	2441	Ant1	1.29	0	Pass
NVNT	2-DH1	2480	Ant1	1.29	0	Pass

Test Graphs

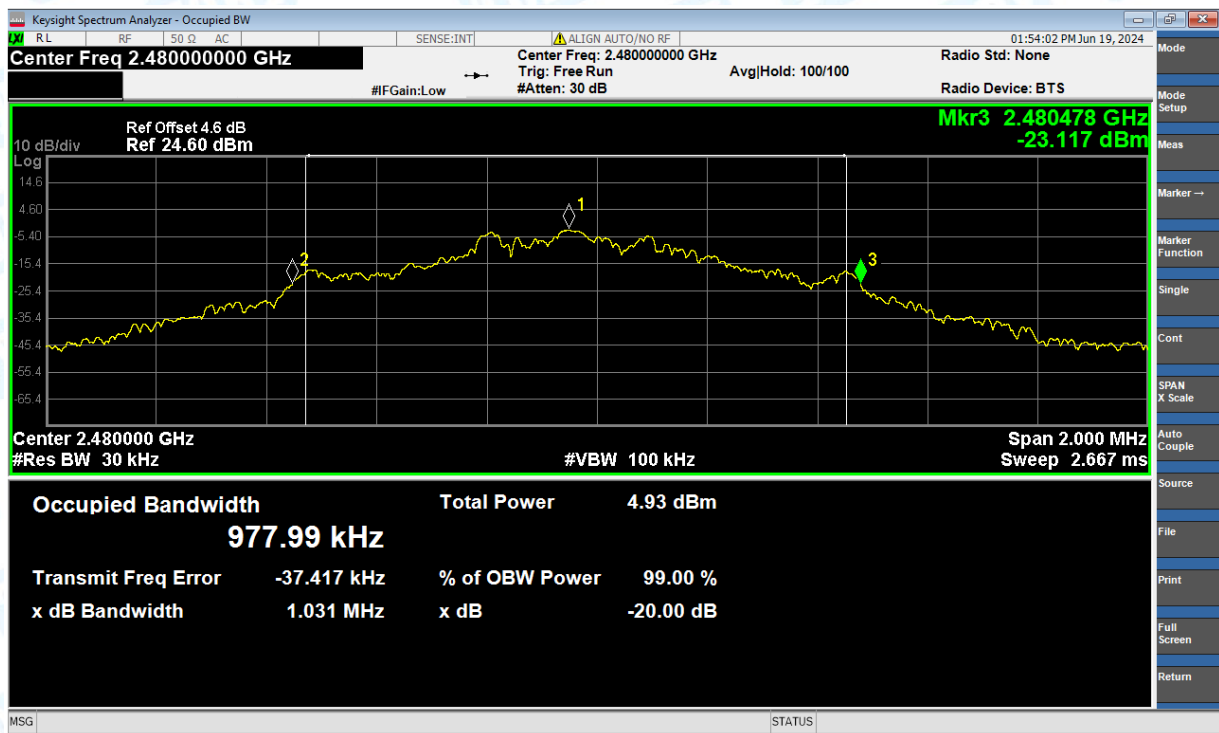
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



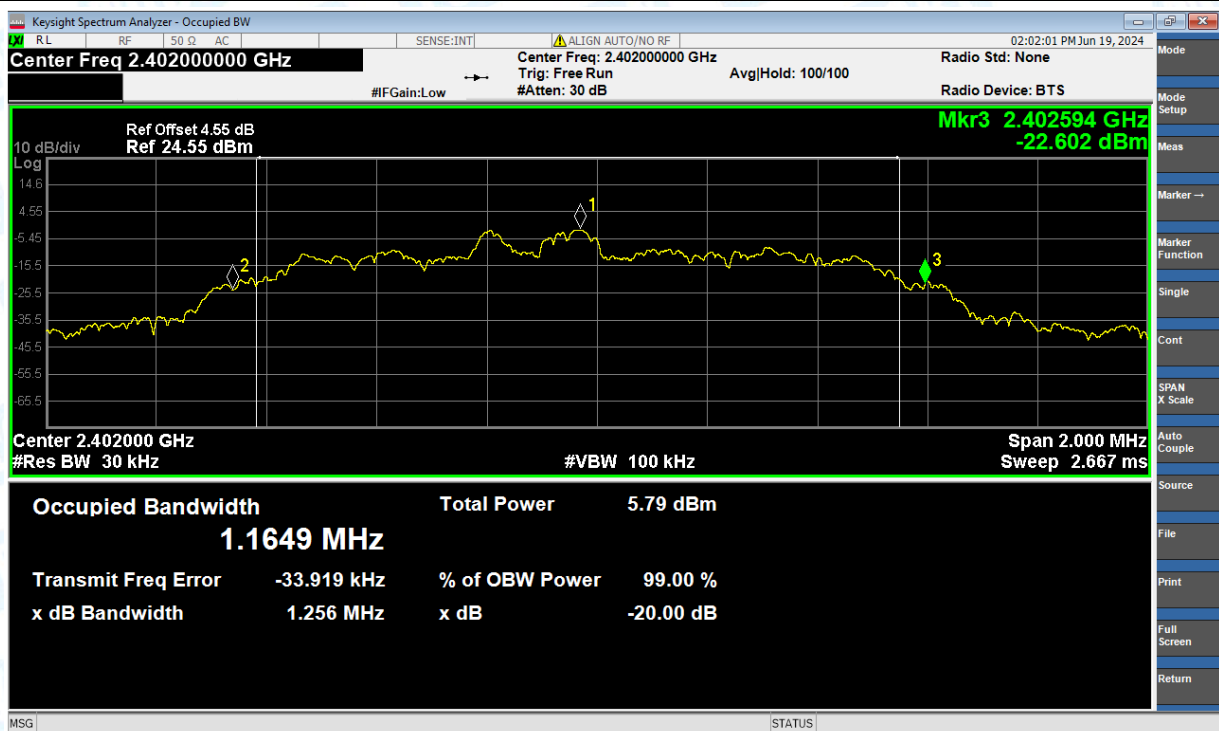
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



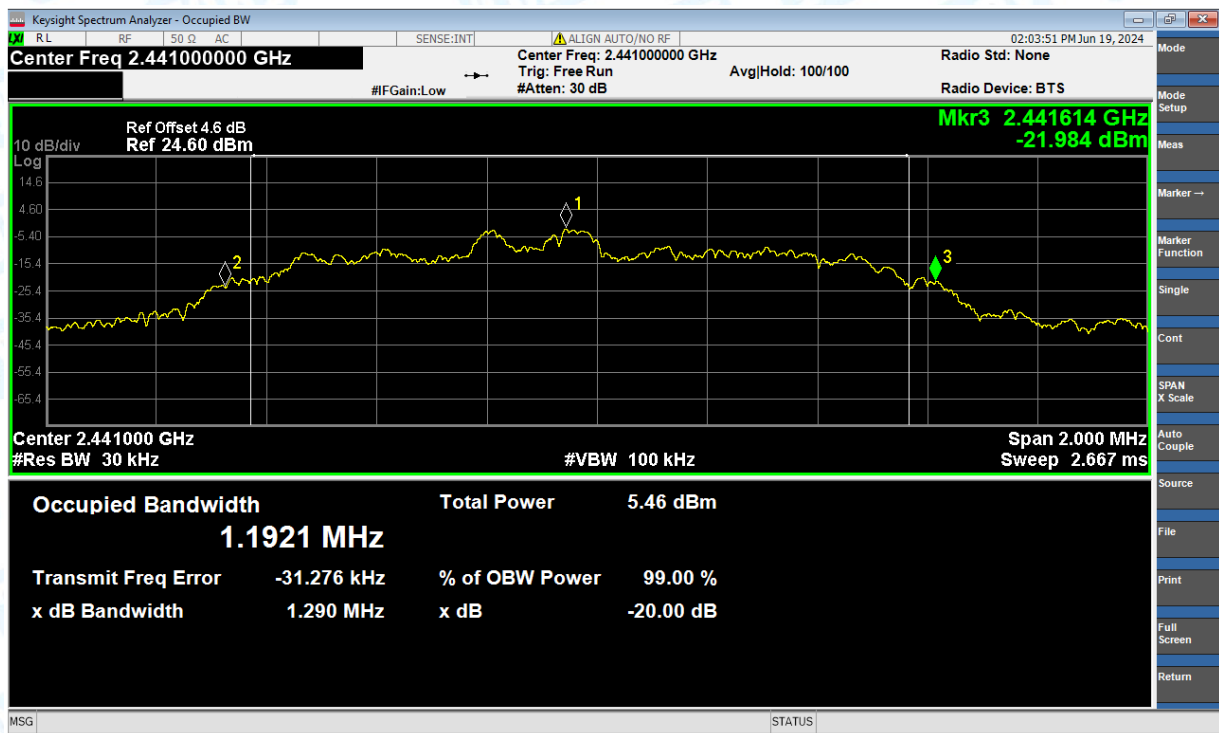
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



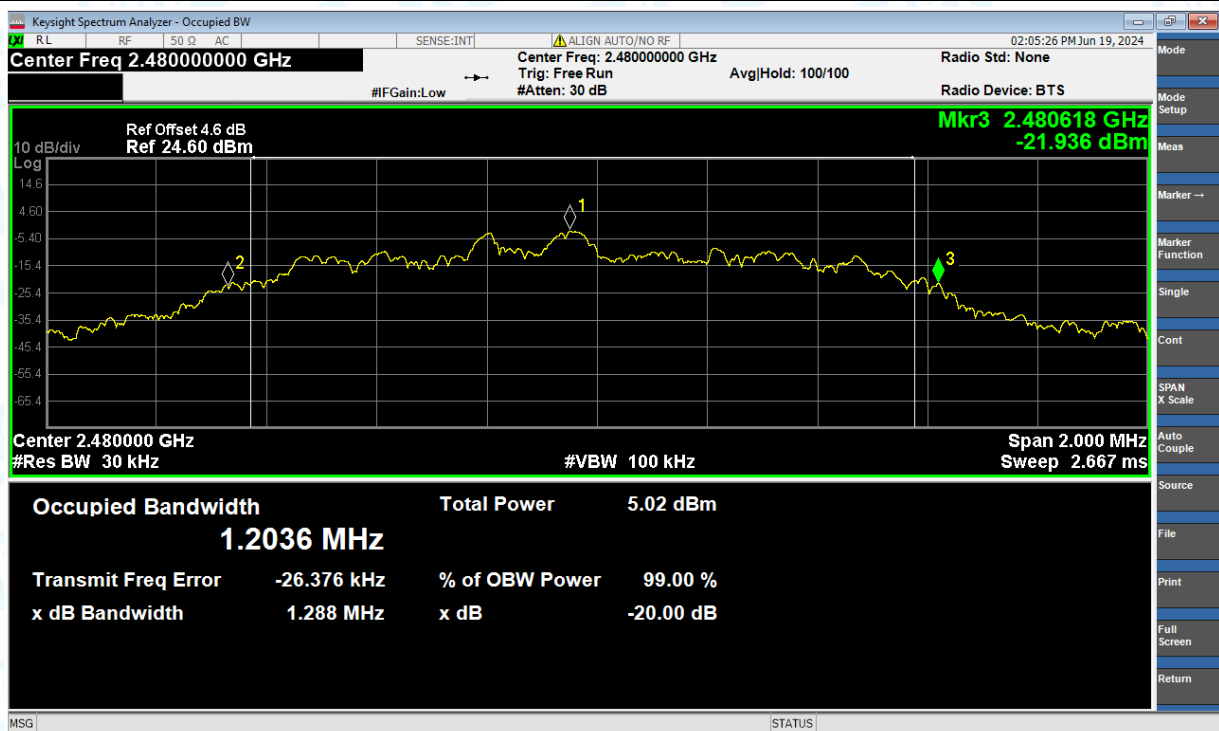
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

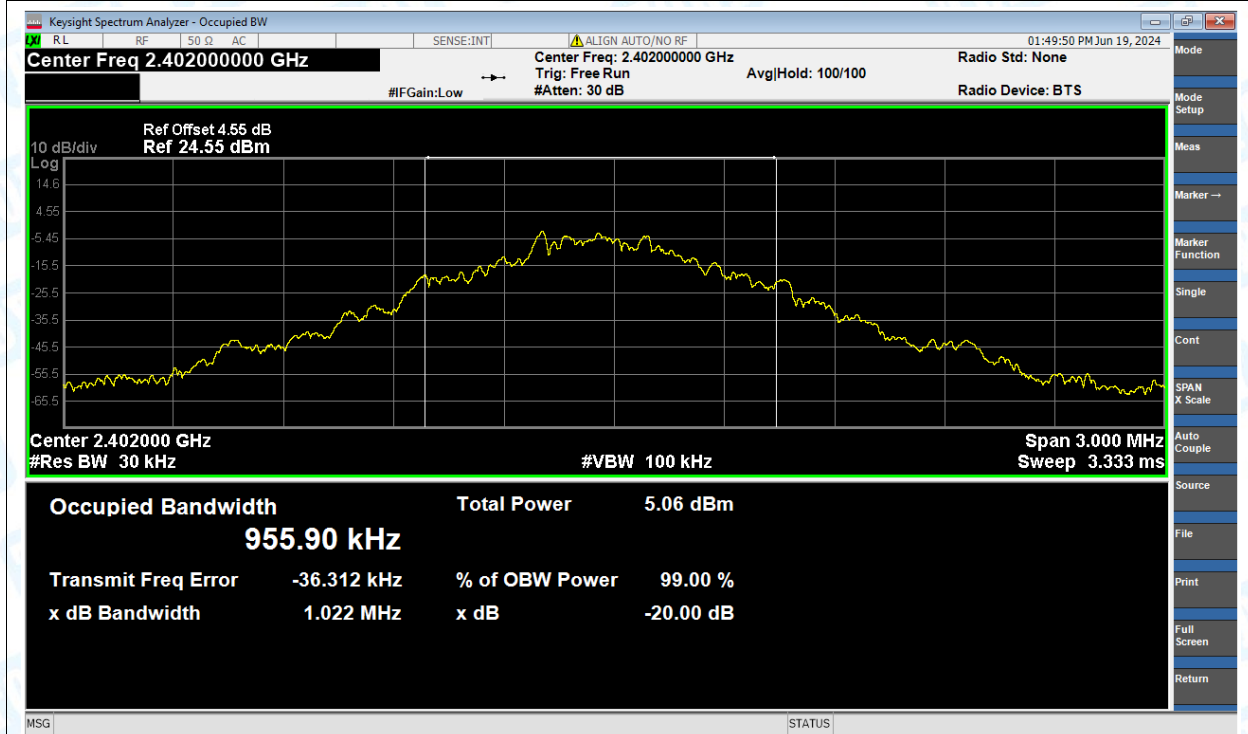


4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.956
NVNT	1-DH1	2441	Ant1	0.97
NVNT	1-DH1	2480	Ant1	0.976
NVNT	2-DH1	2402	Ant1	1.184
NVNT	2-DH1	2441	Ant1	1.202
NVNT	2-DH1	2480	Ant1	1.2

Test Graphs

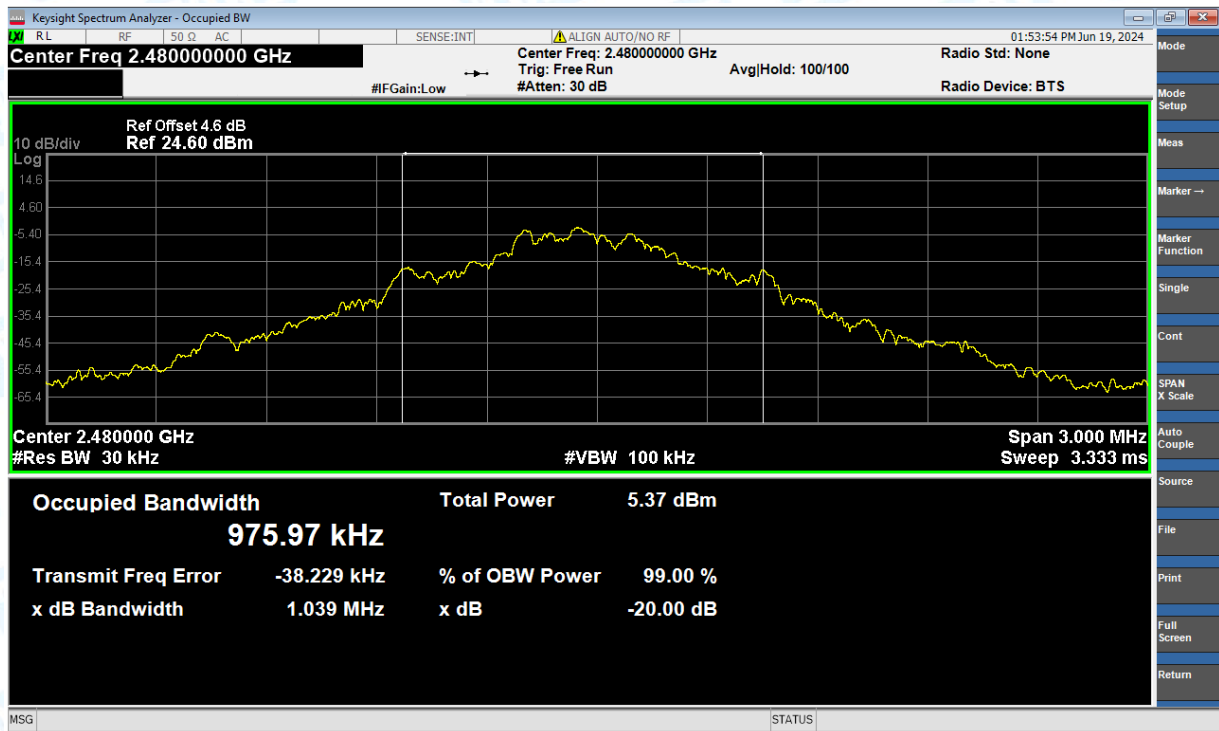
OBW NVNT 1-DH1 2402MHz Ant1



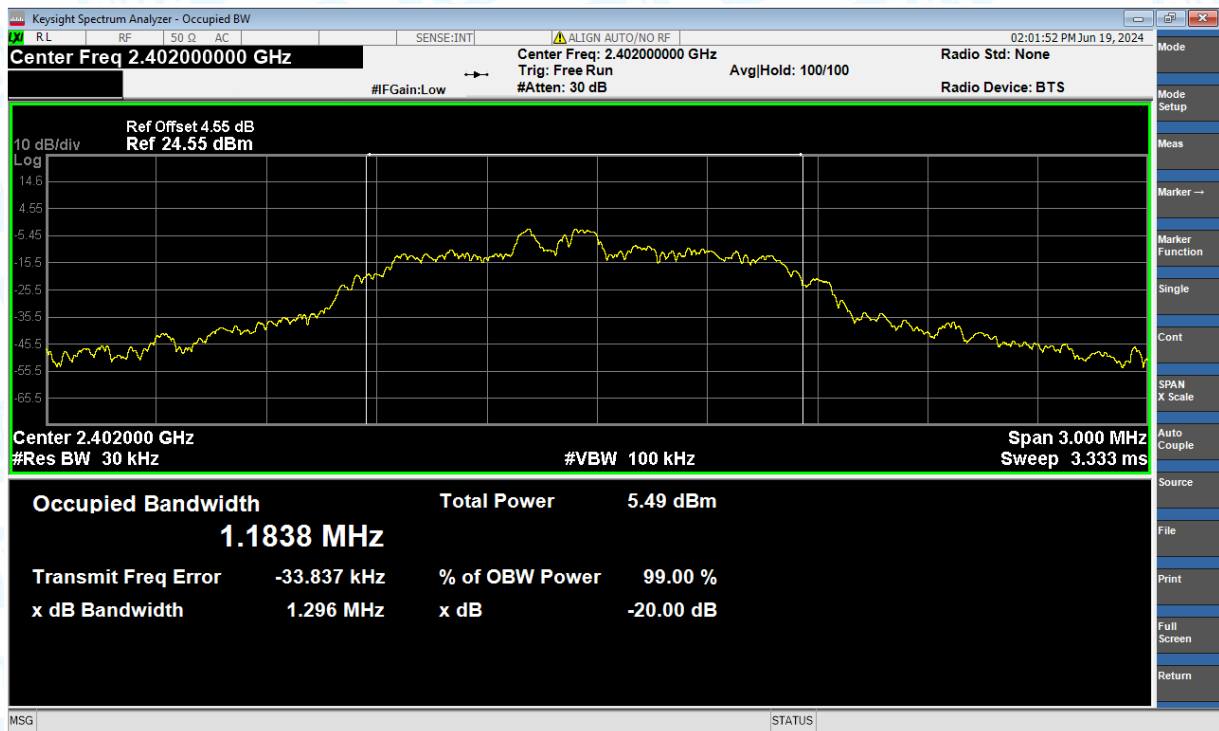
OBW NVNT 1-DH1 2441MHz Ant1



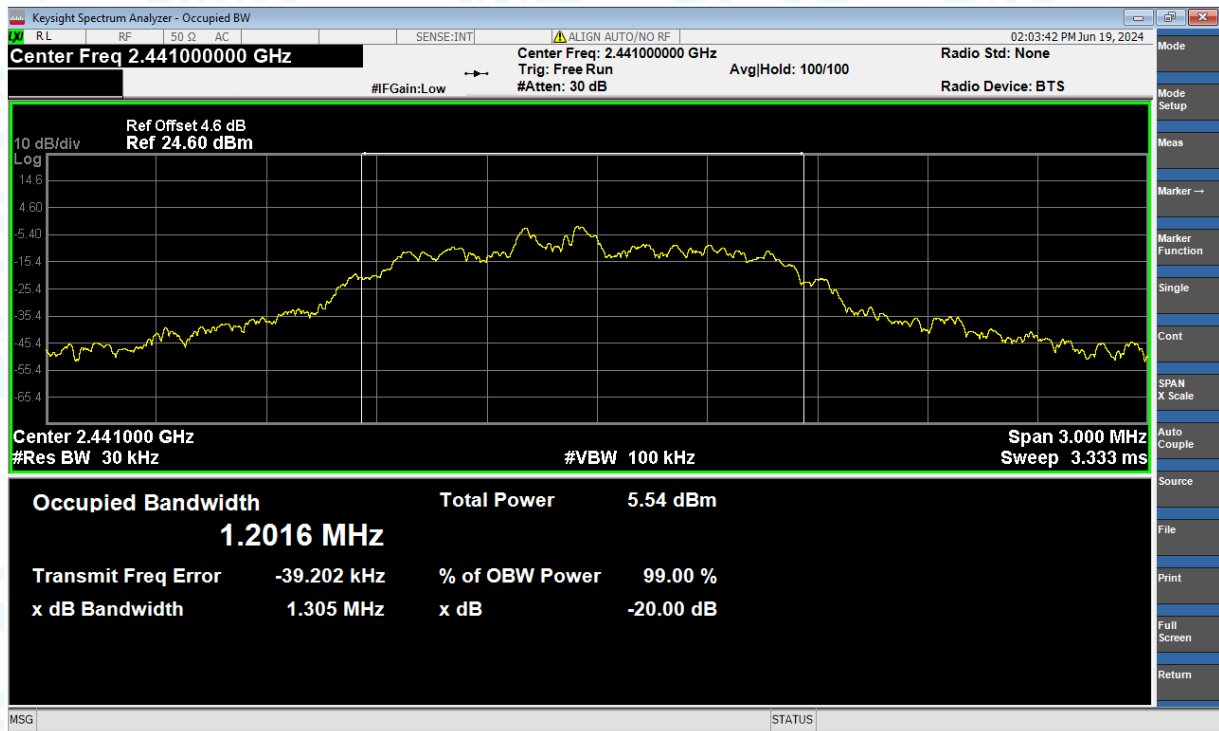
OBW NVNT 1-DH1 2480MHz Ant1



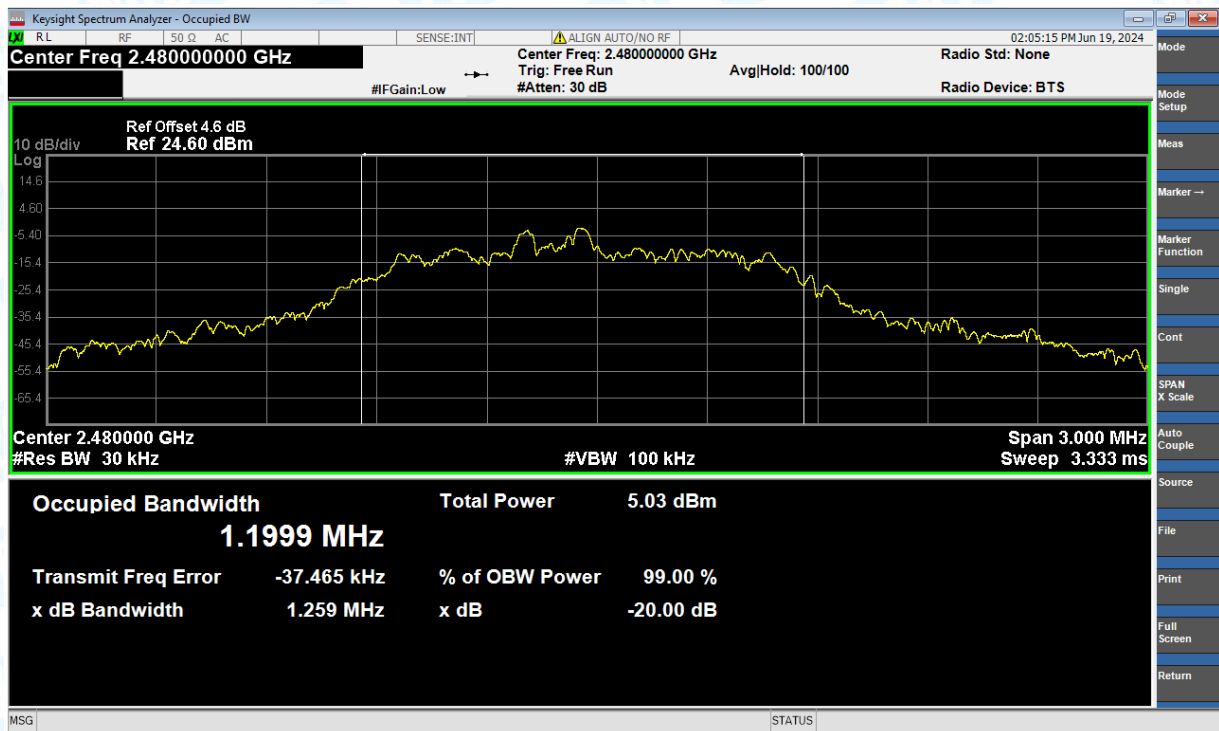
OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

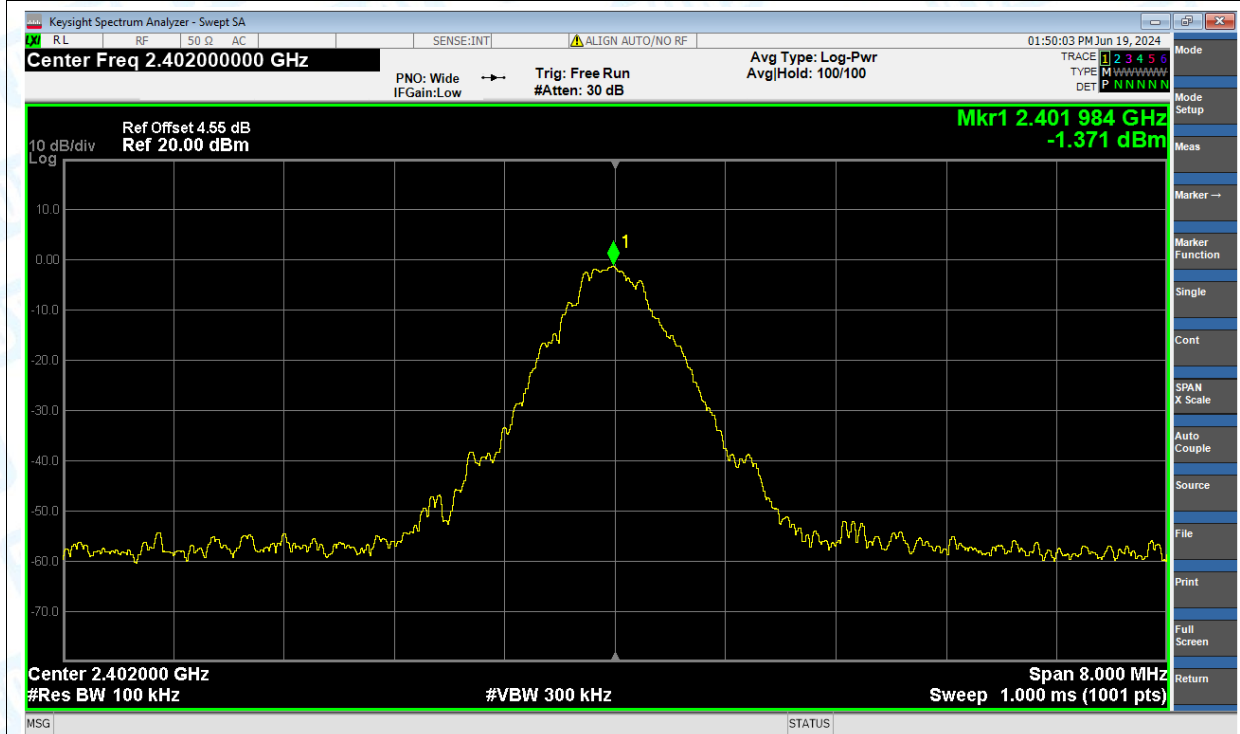


5. Band Edge

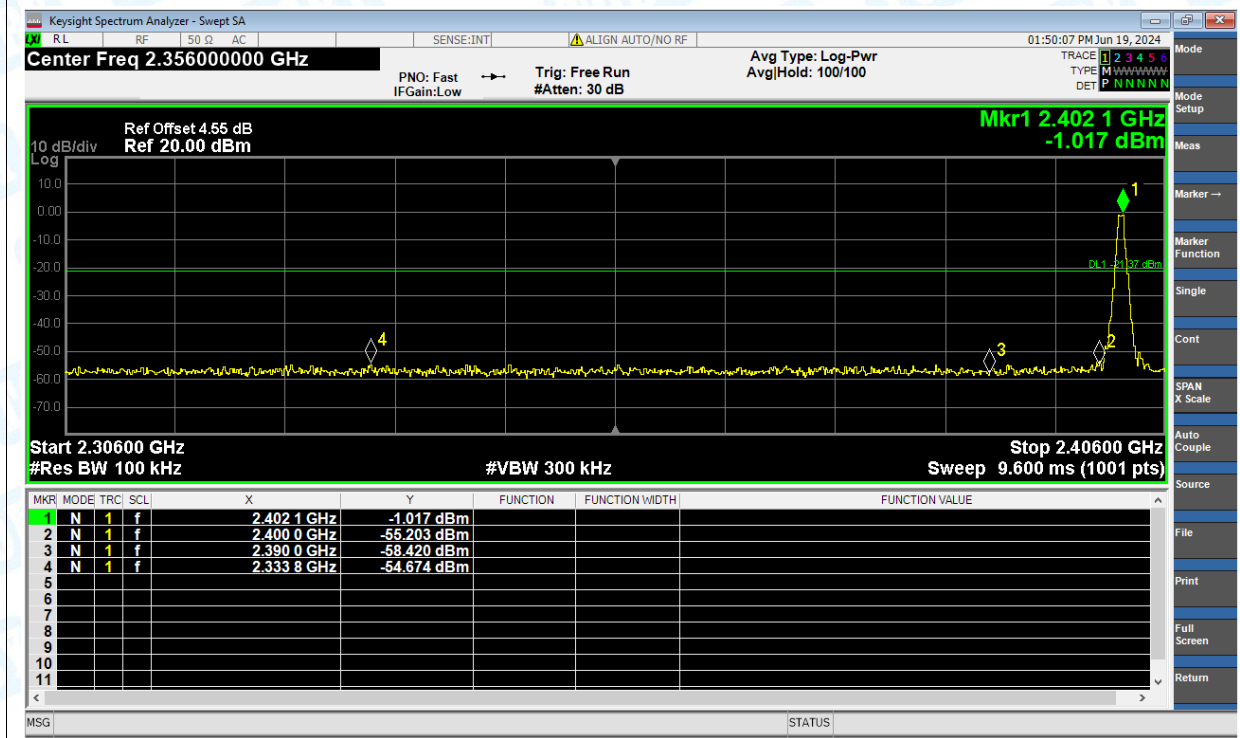
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-53.3	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-52.16	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-53.49	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-52.87	-20	Pass

Test Graphs

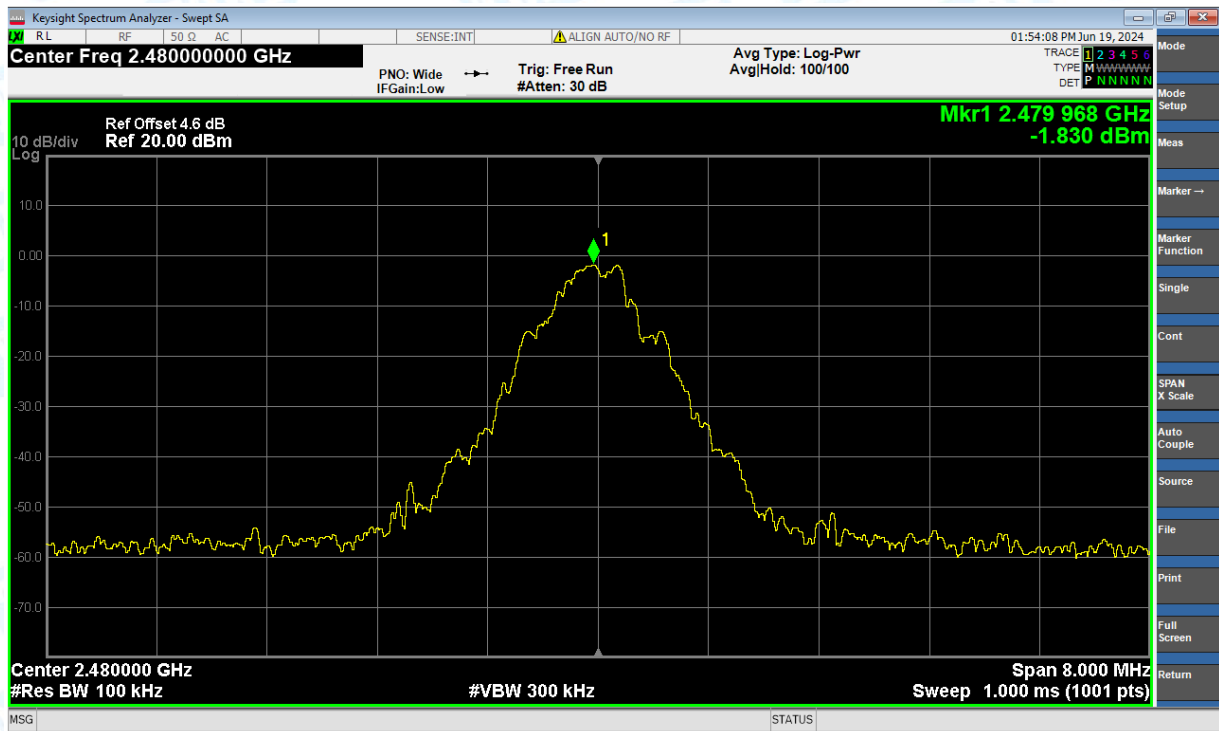
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



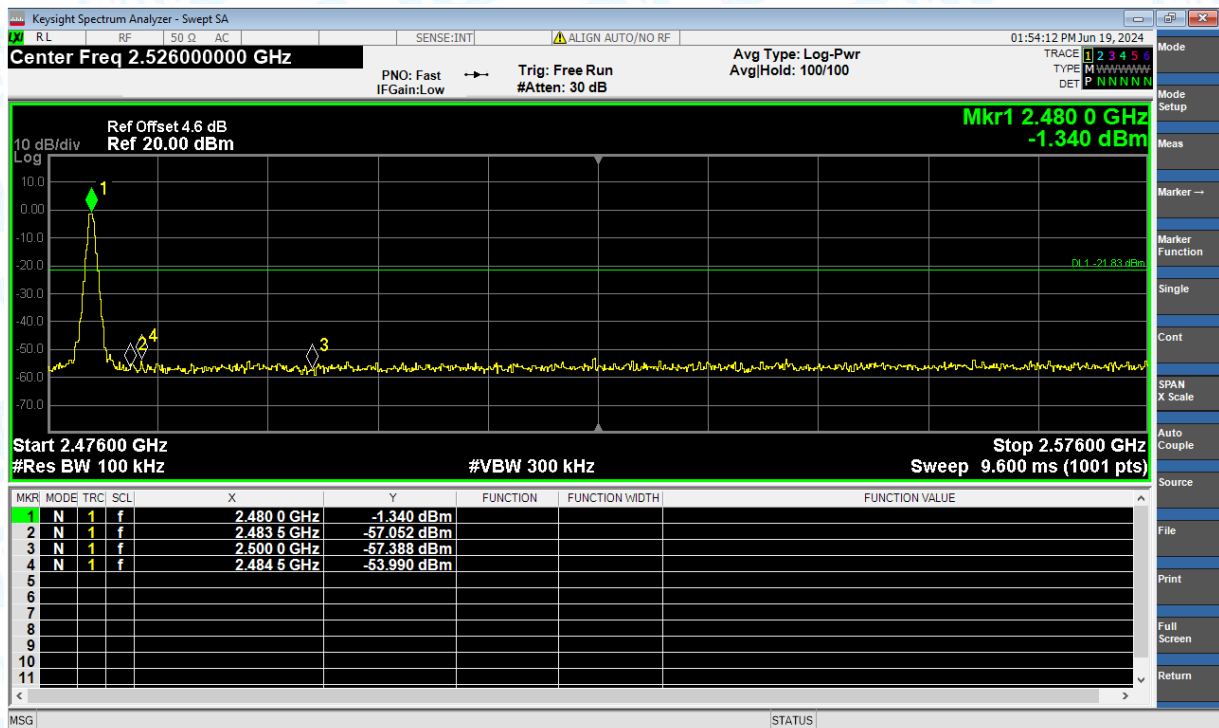
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



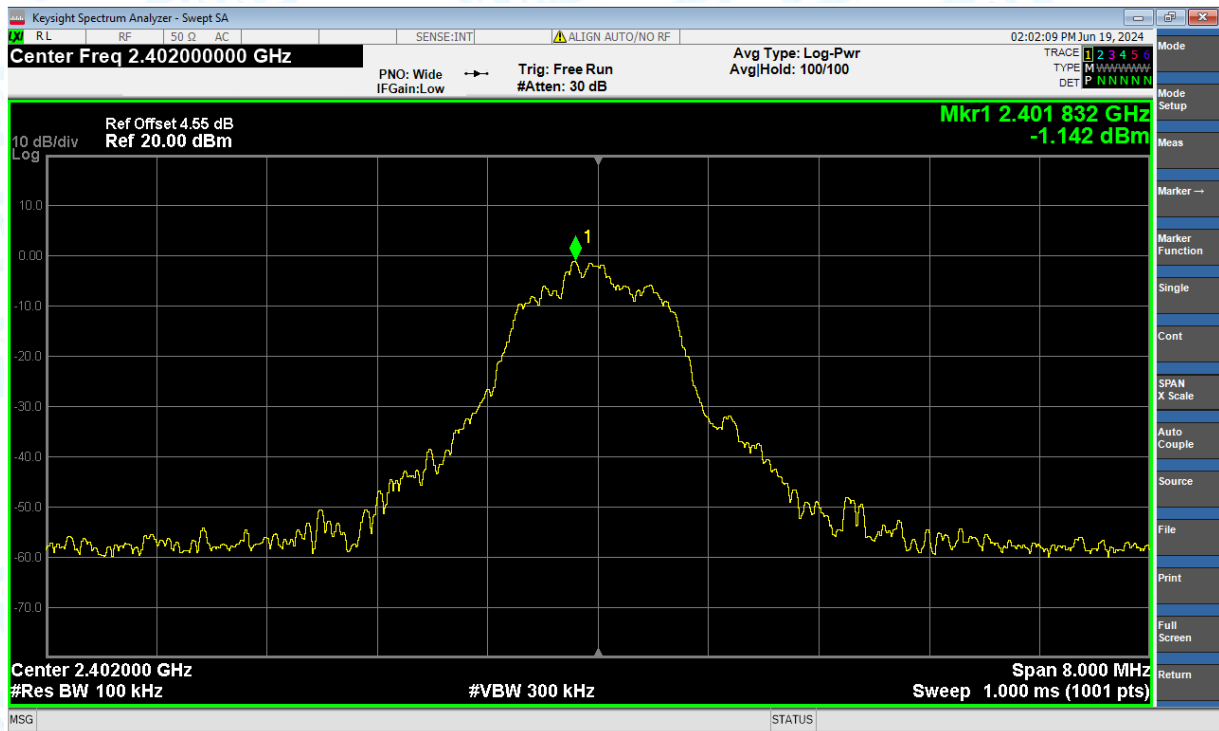
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



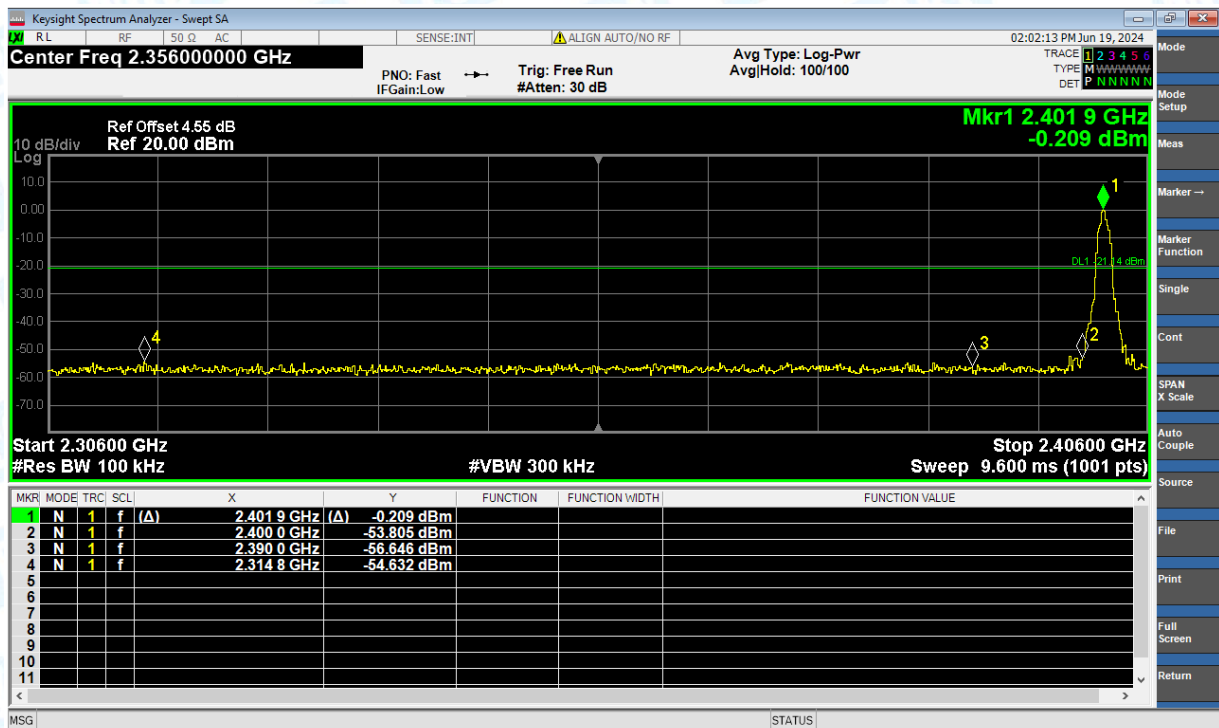
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



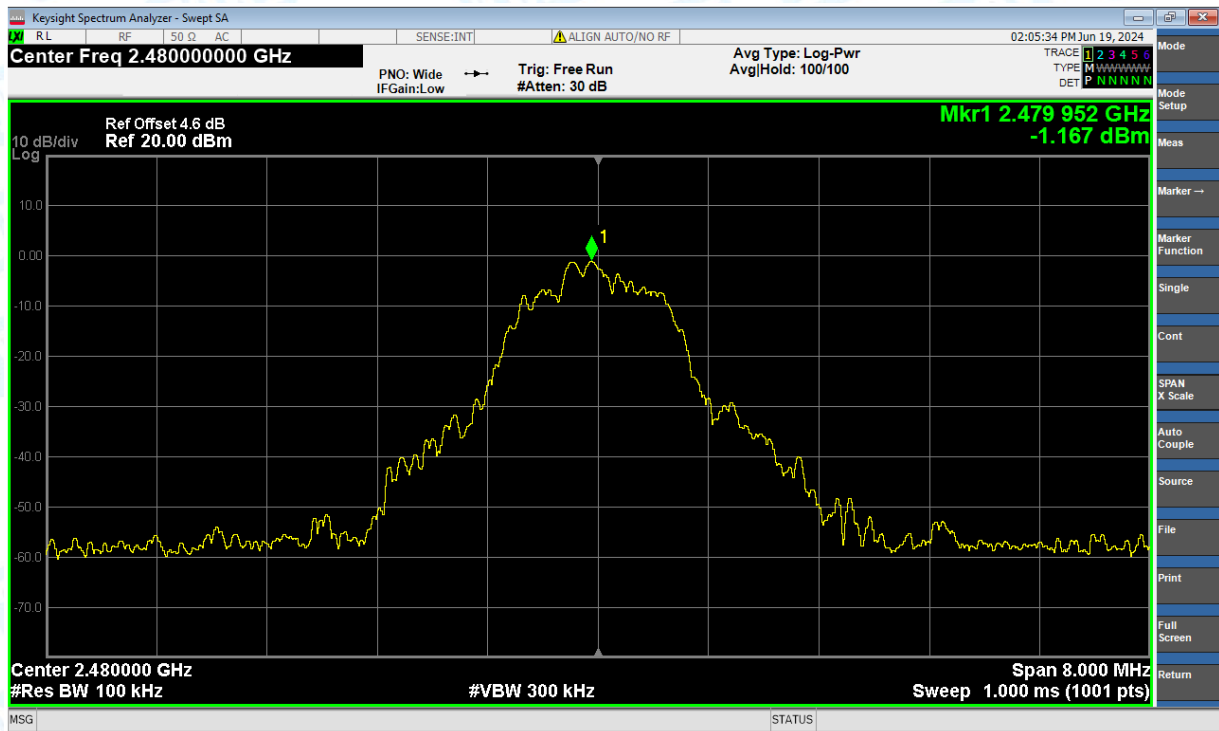
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



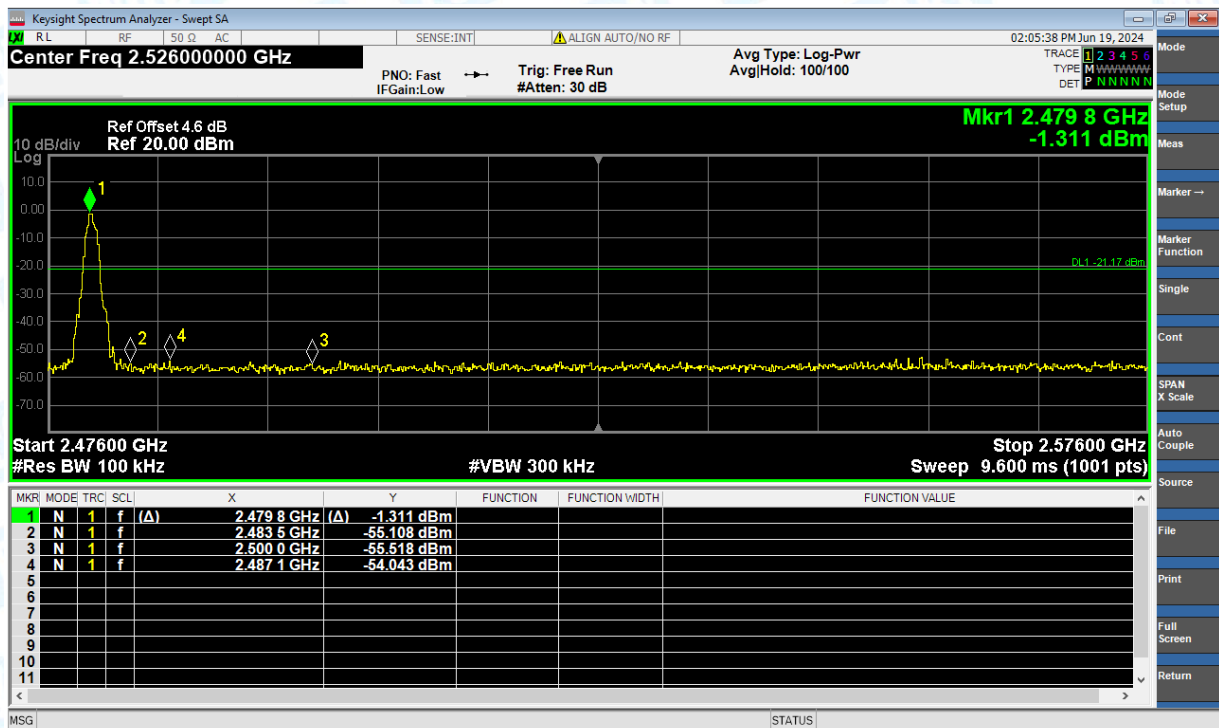
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission

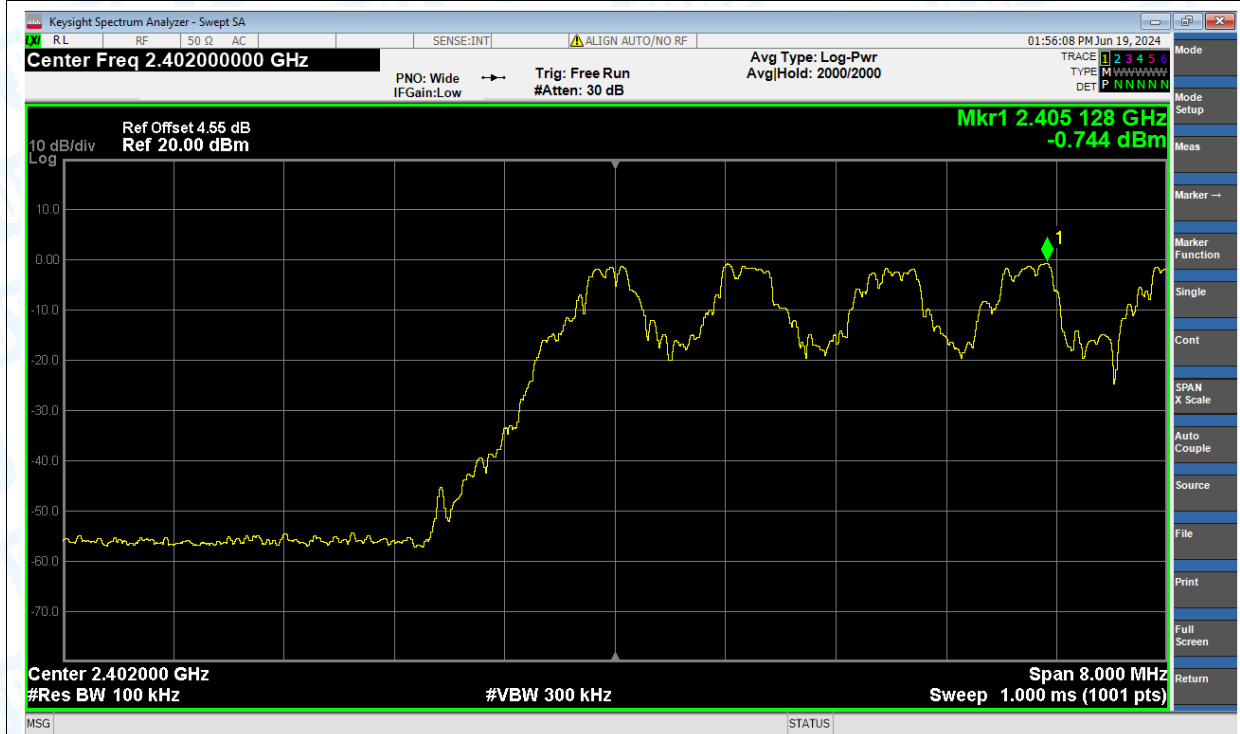


6. Band Edge(Hopping)

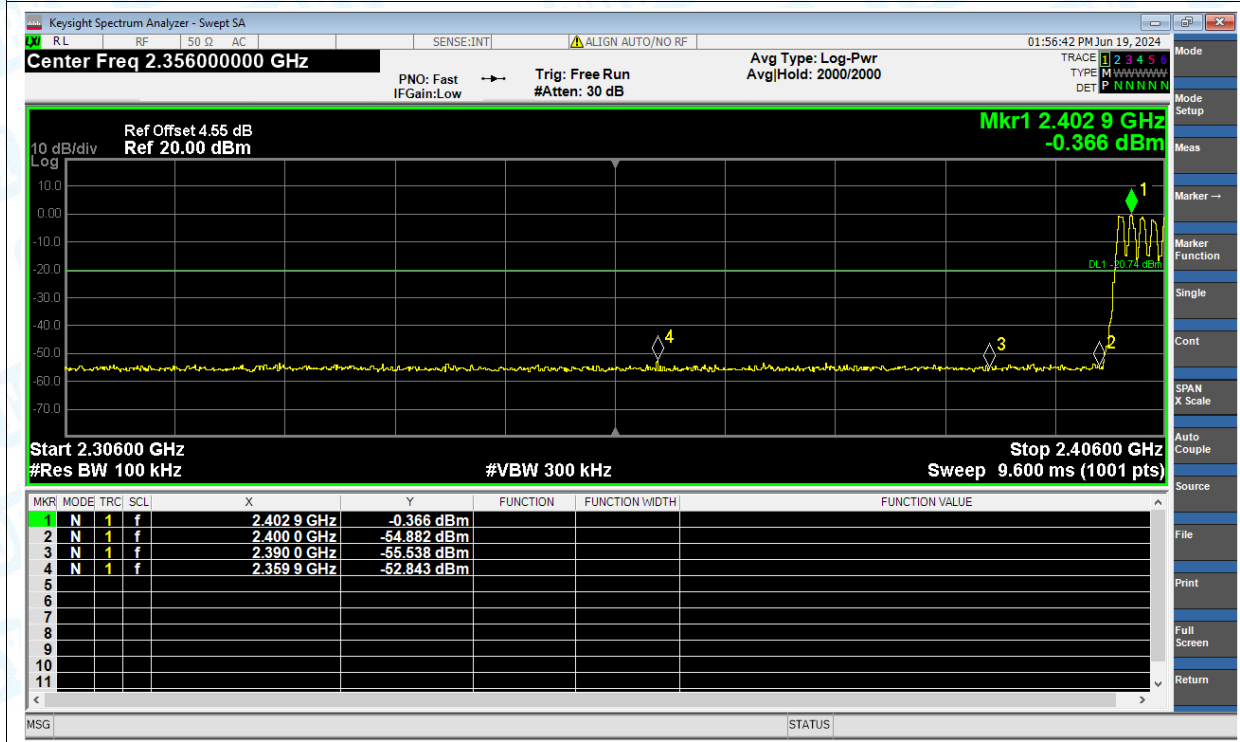
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-52.1	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-52.19	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-52.35	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.43	-20	Pass

Test Graphs

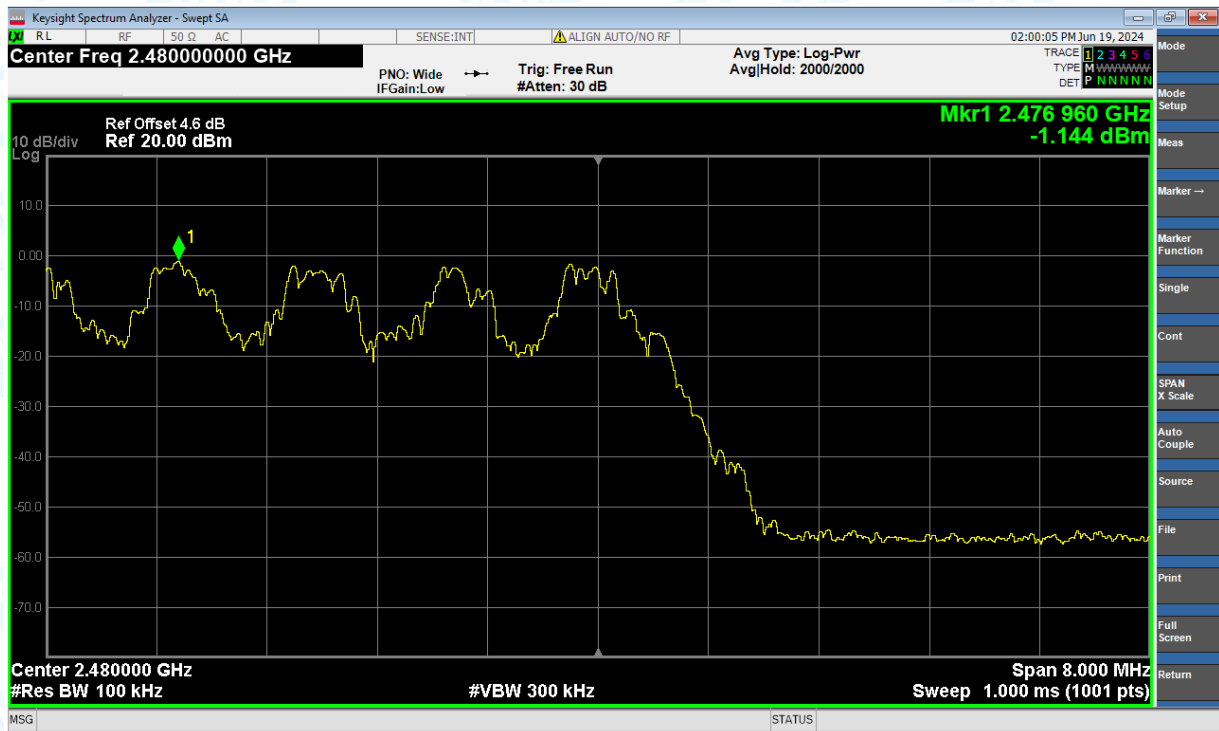
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



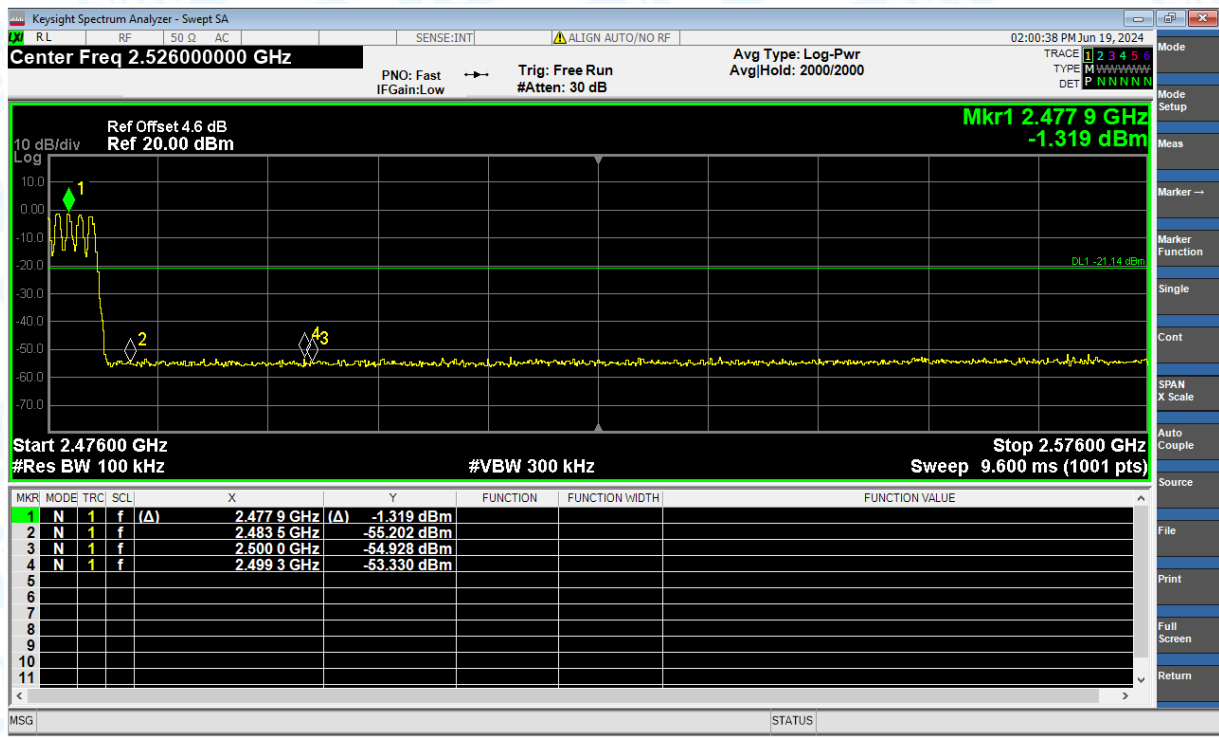
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



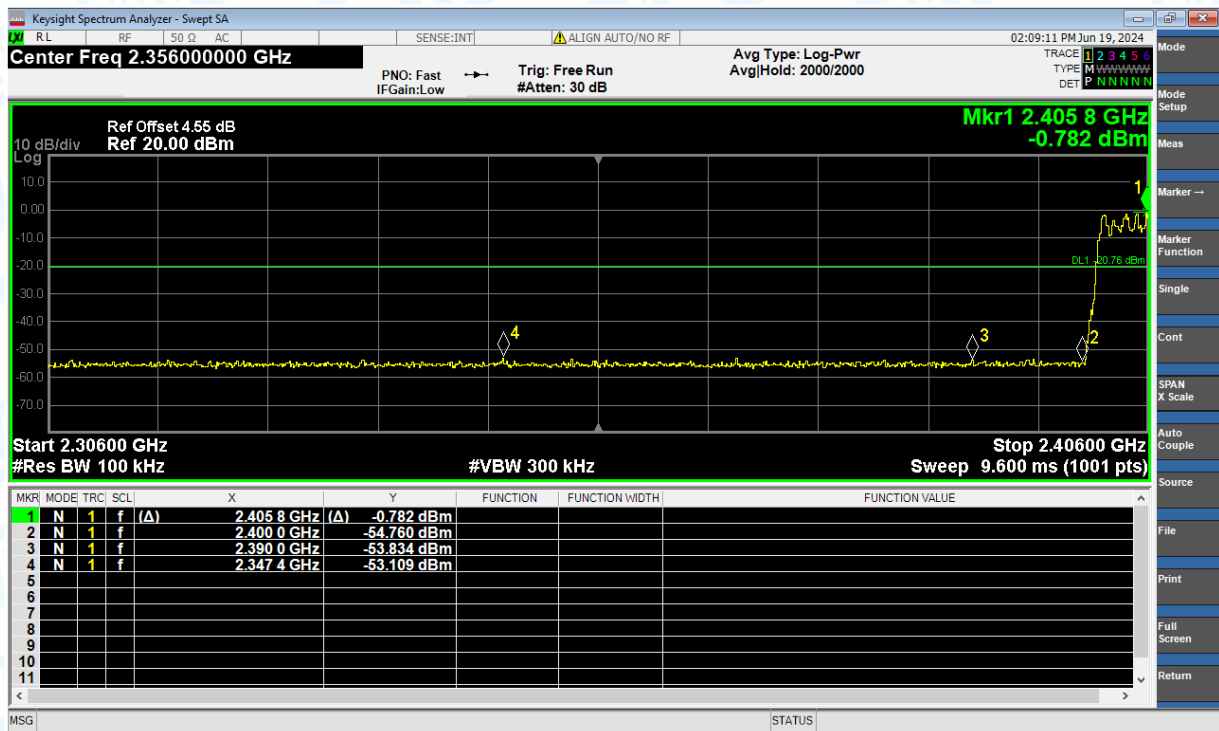
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



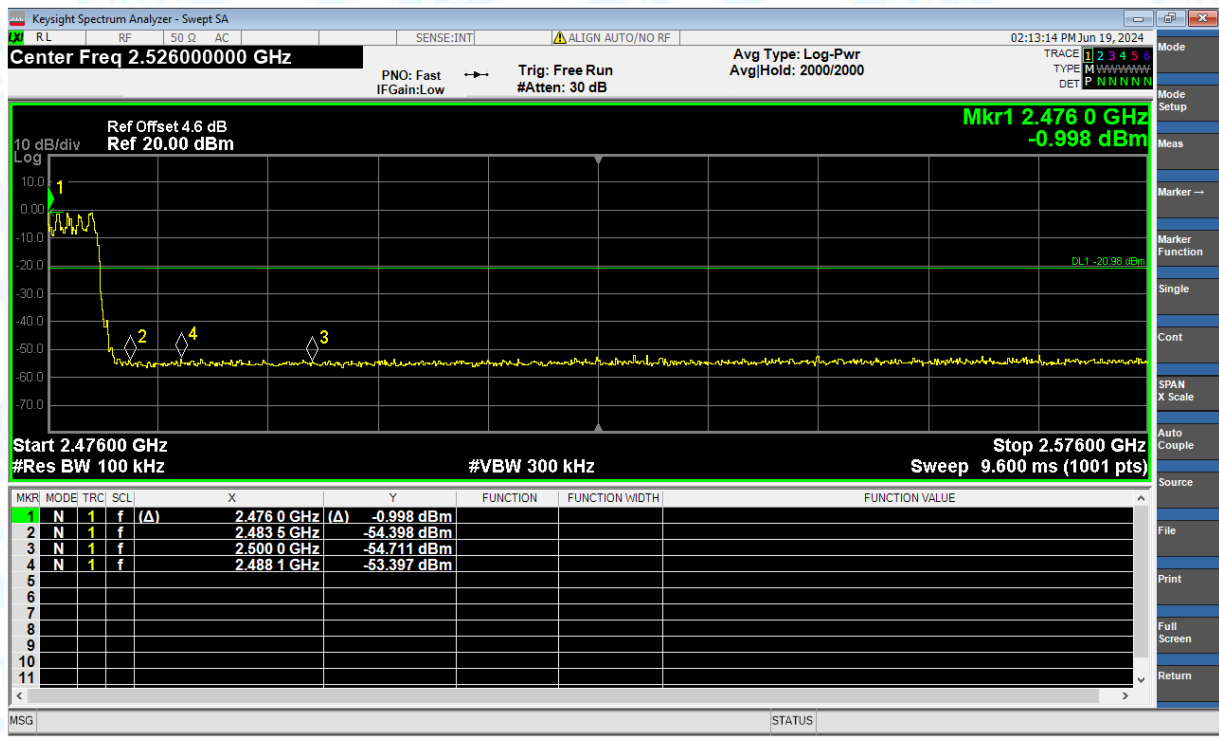
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission

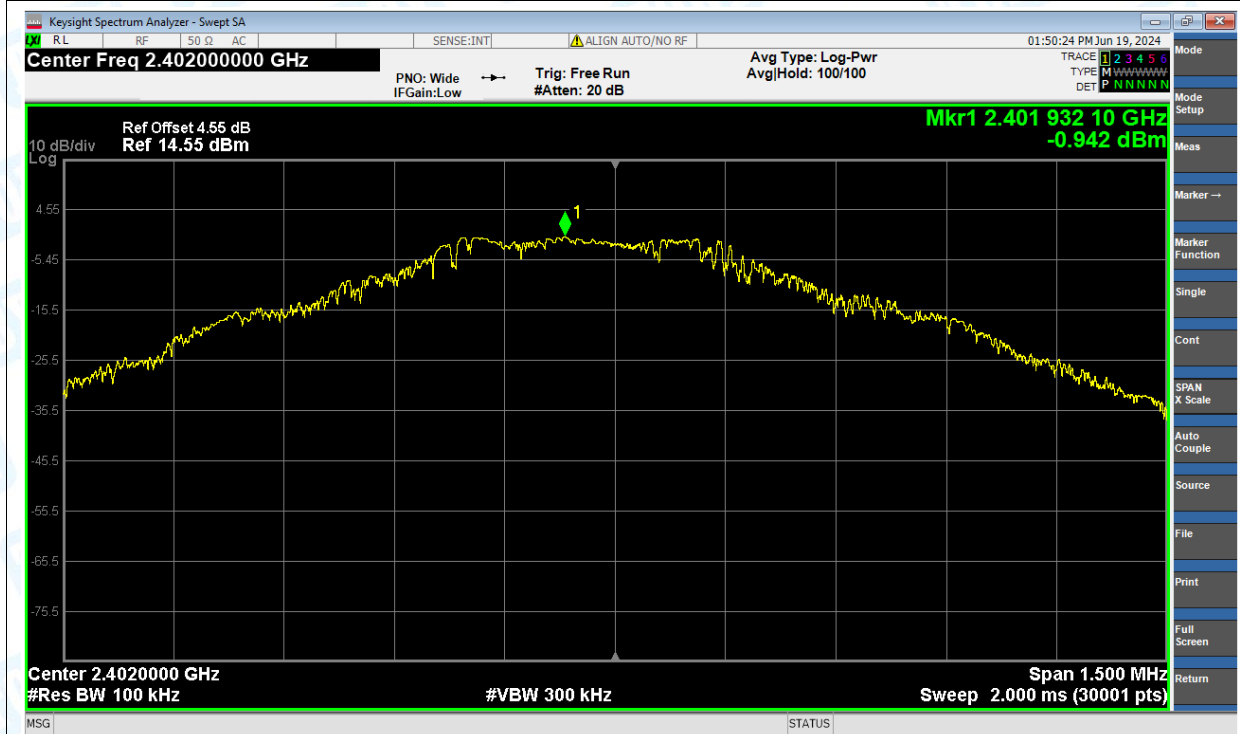


7. Conducted RF Spurious Emission

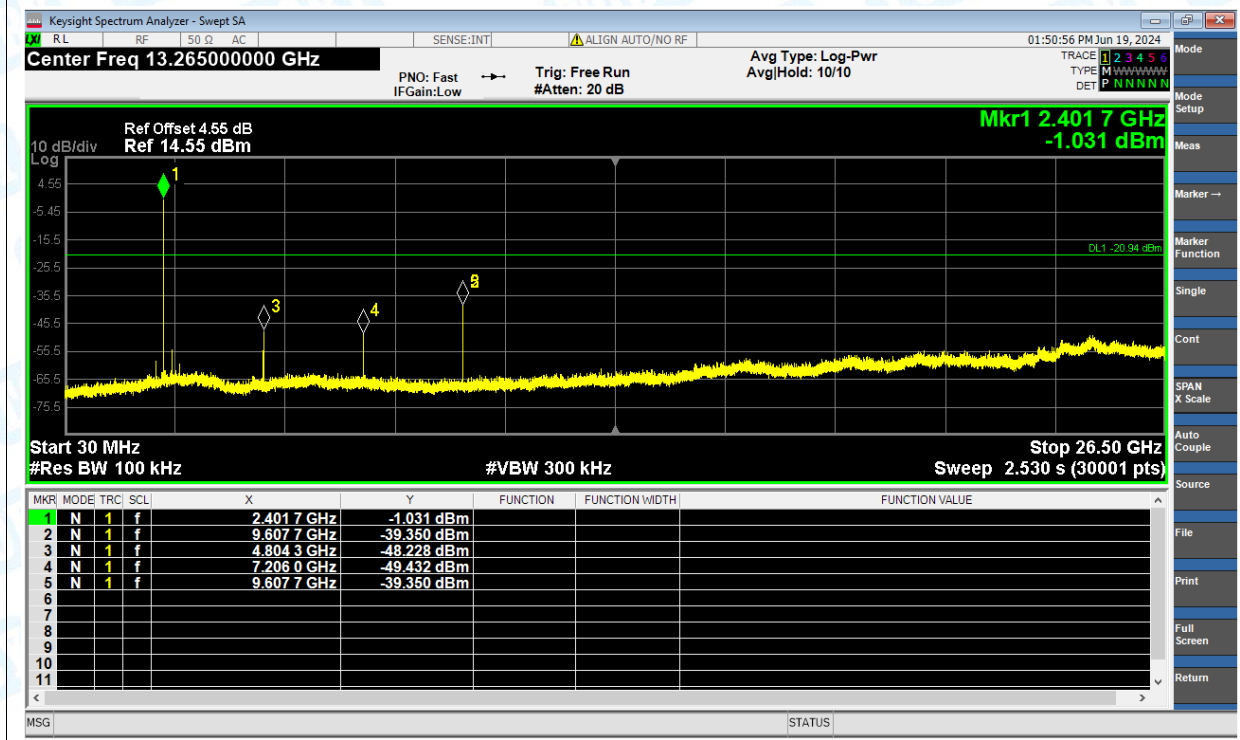
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-38.41	-20	Pass
NVNT	1-DH1	2441	Ant1	-44.59	-20	Pass
NVNT	1-DH1	2480	Ant1	-42.6	-20	Pass
NVNT	2-DH1	2402	Ant1	-39.38	-20	Pass
NVNT	2-DH1	2441	Ant1	-38.08	-20	Pass
NVNT	2-DH1	2480	Ant1	-40.42	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



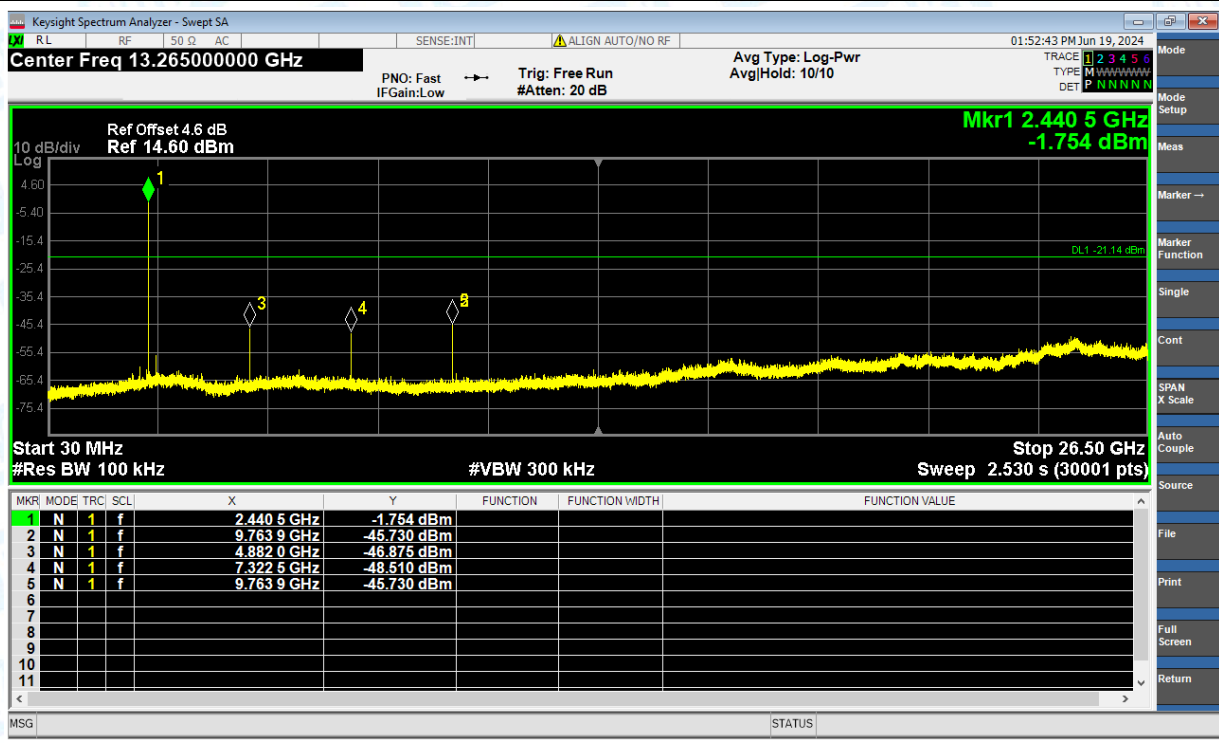
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



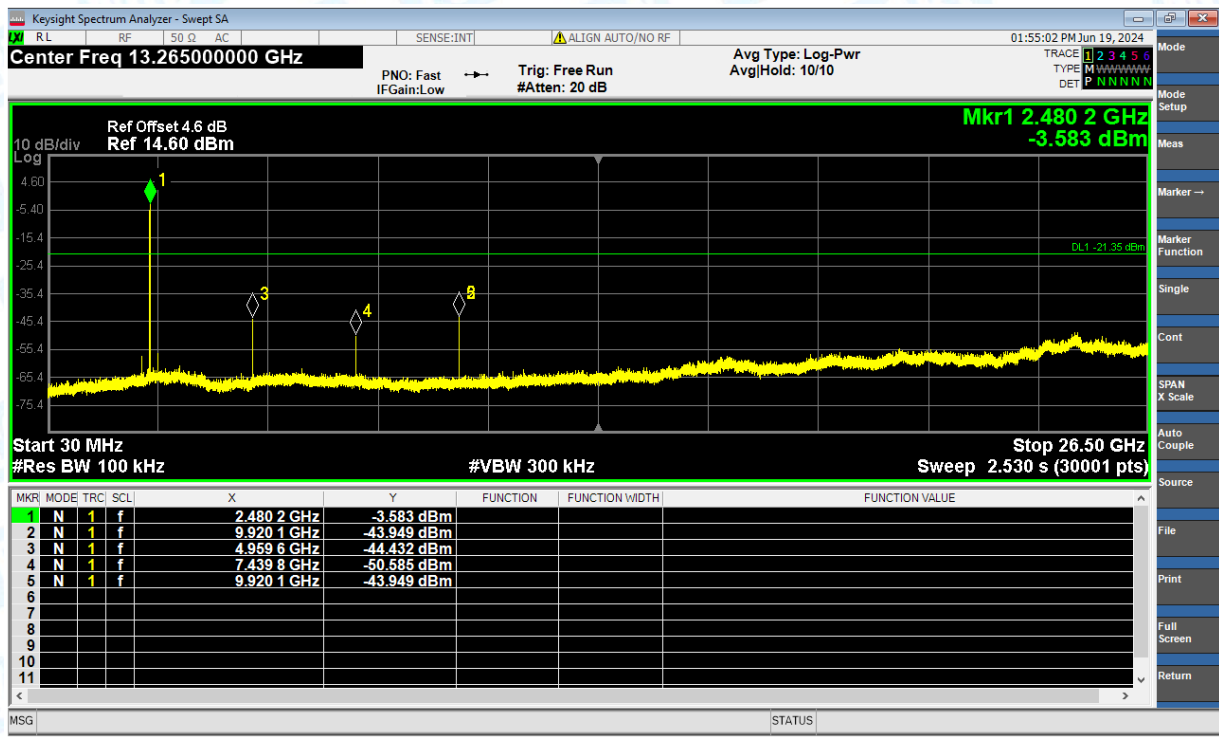
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



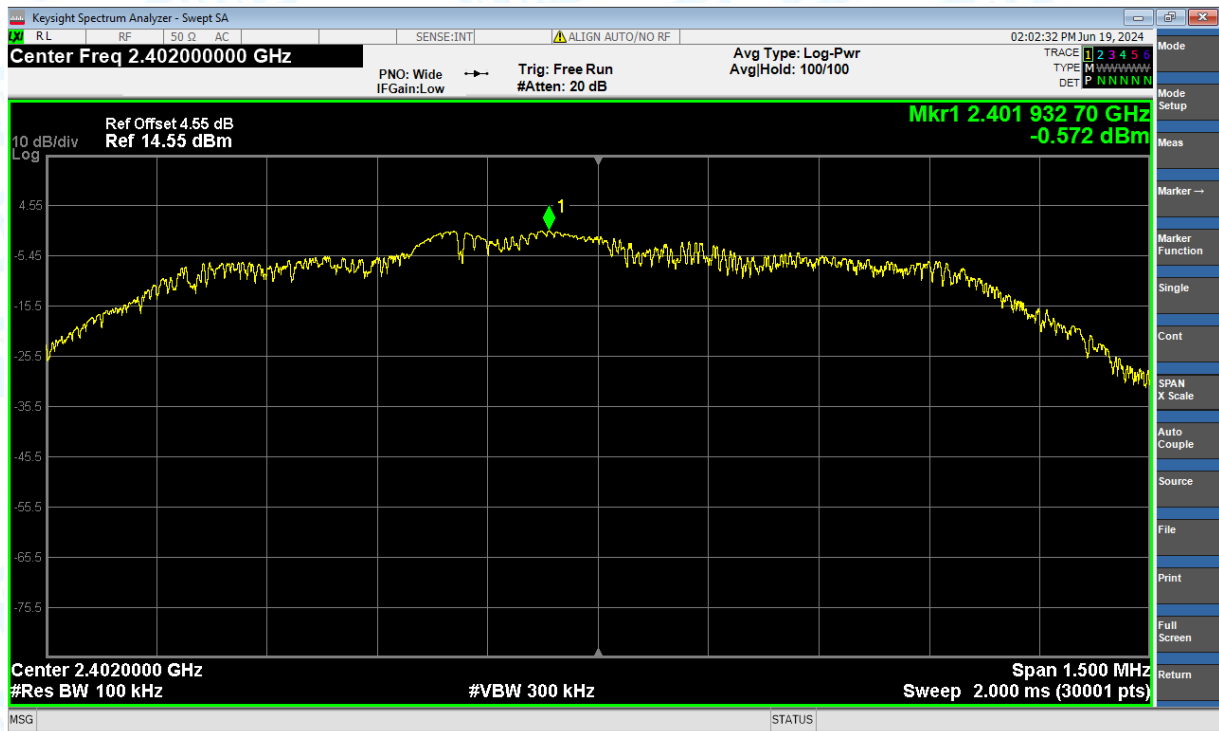
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



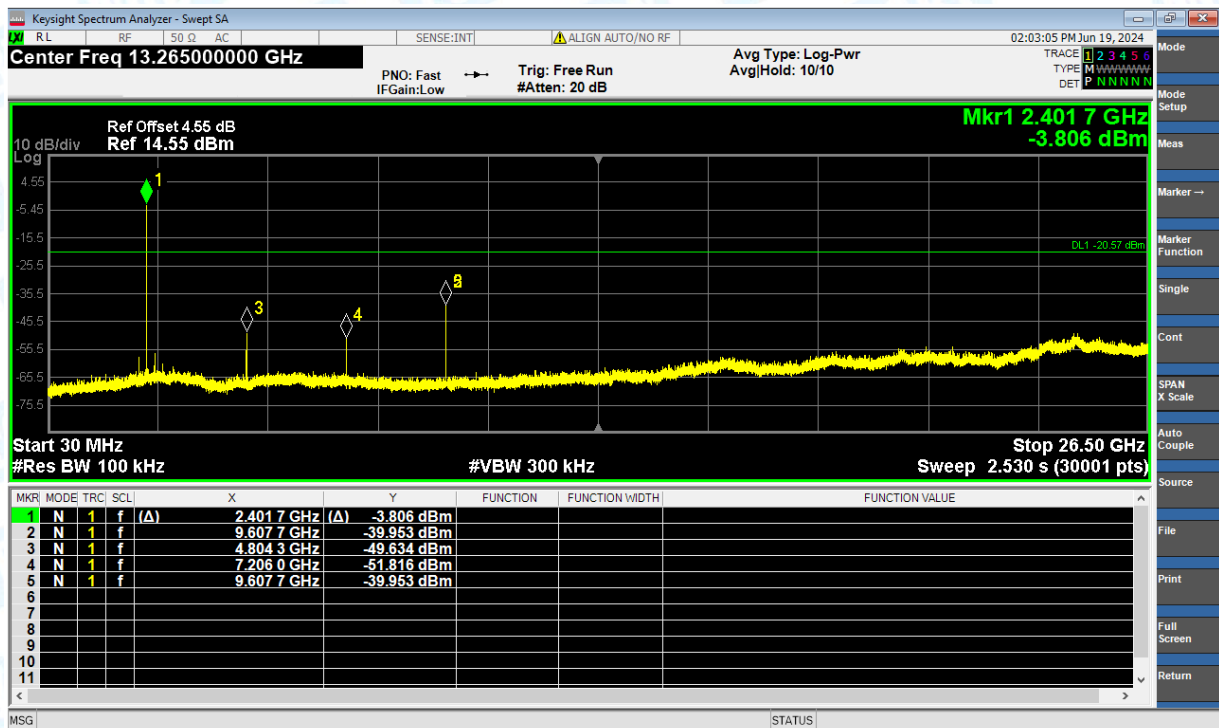
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



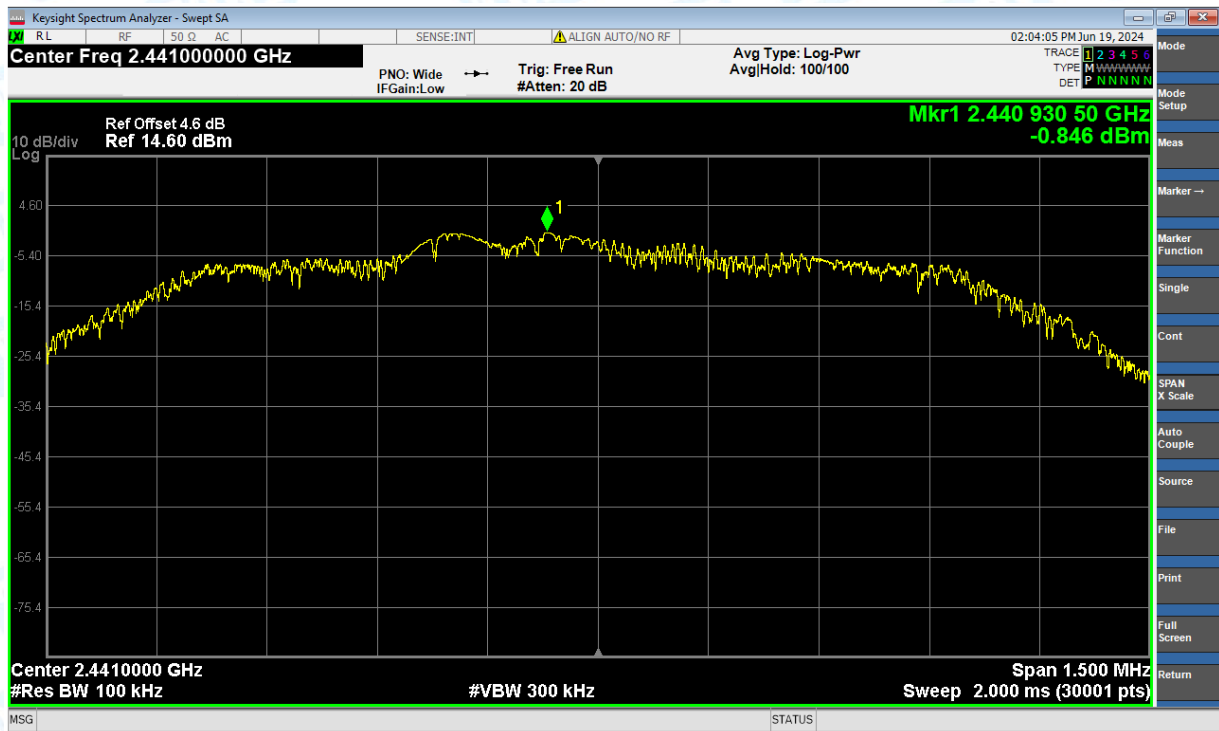
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



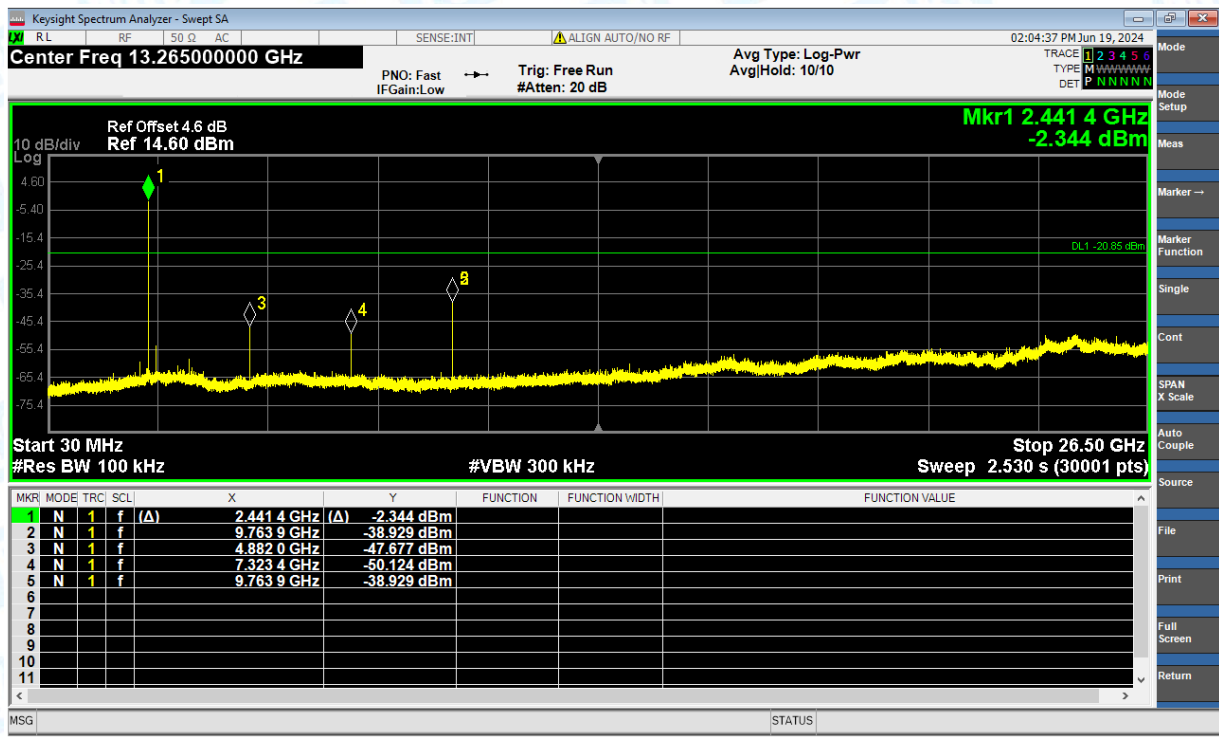
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



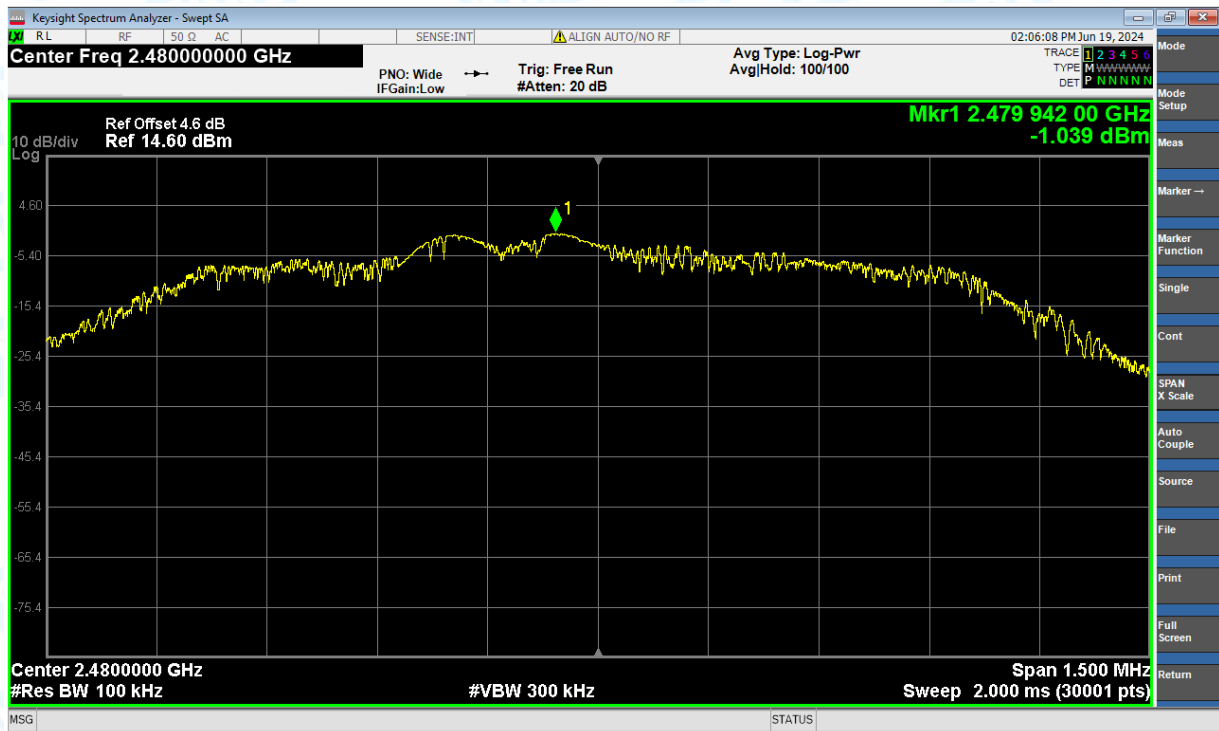
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



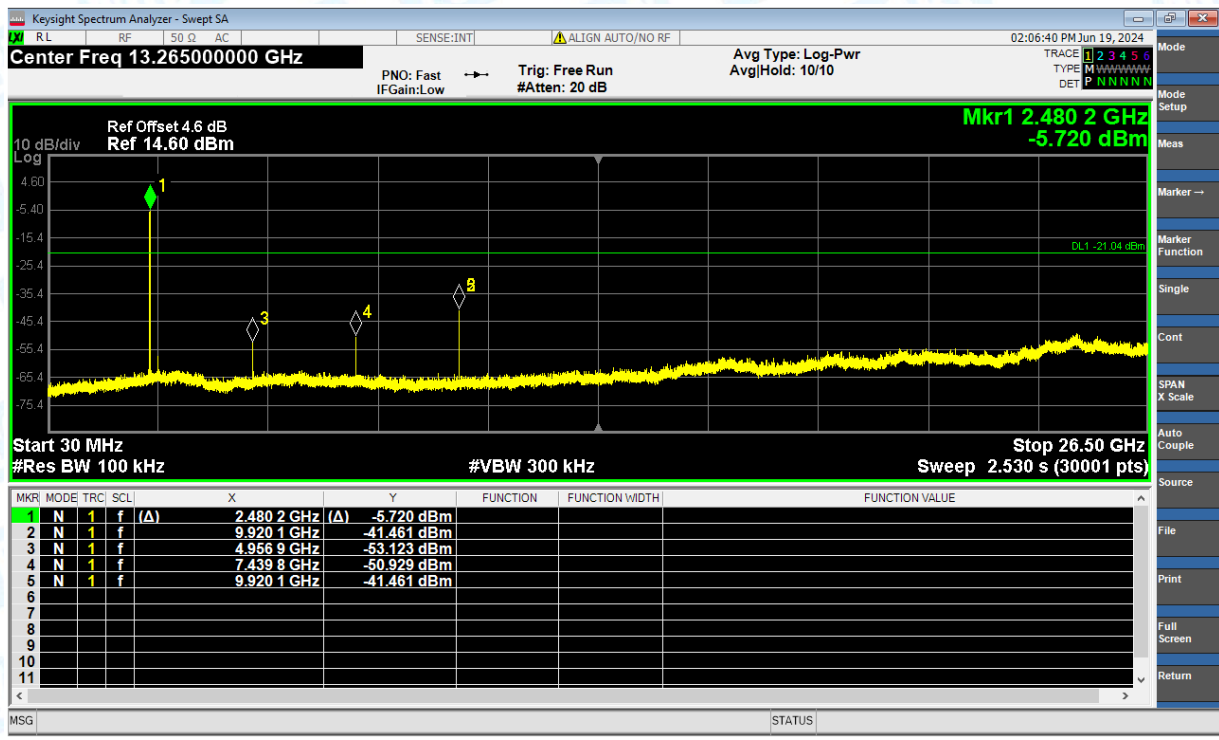
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission

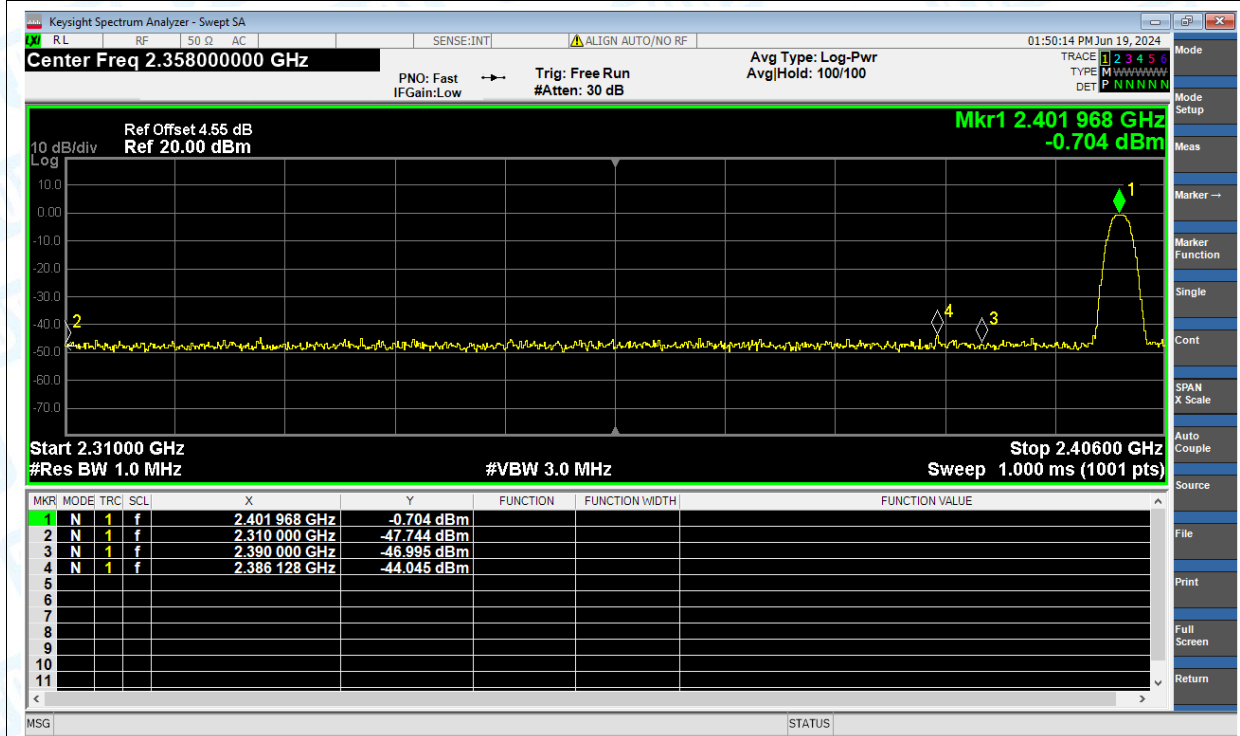


8. Restrict Band

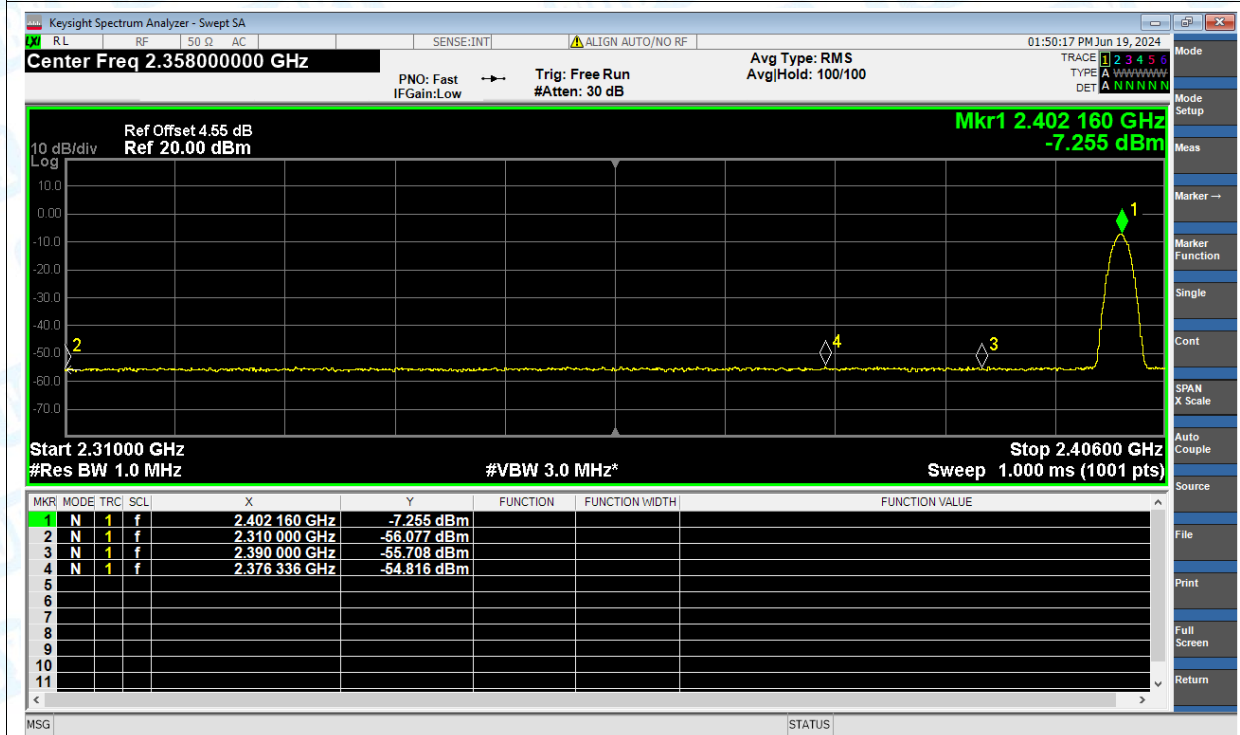
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.74	2.7	-	50.22	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.08	2.7	5.06	46.94	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2386.128	-44.04	2.7	-	53.92	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2376.336	-54.82	2.7	5.06	48.2	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47	2.7	-	50.96	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.71	2.7	5.06	47.31	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-47.36	2.7	-	50.6	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.03	2.7	5.06	47.99	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2494.792	-43.05	2.7	-	54.91	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.4	-54.42	2.7	5.06	48.6	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-44.39	2.7	-	53.57	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-56.15	2.7	5.06	46.87	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.64	2.7	-	49.32	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.9	2.7	5.06	47.12	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2312.496	-44.51	2.7	-	53.45	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2350.032	-54.89	2.7	5.06	48.13	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.68	2.7	-	51.28	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.28	2.7	5.06	47.74	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-45.96	2.7	-	52	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.06	2.7	5.06	47.96	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2489.776	-44.94	2.7	-	53.02	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2492.056	-54.49	2.7	5.06	48.53	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-48.52	2.7	-	49.44	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.28	2.7	5.06	47.74	Average	54	Pass

Test Graphs

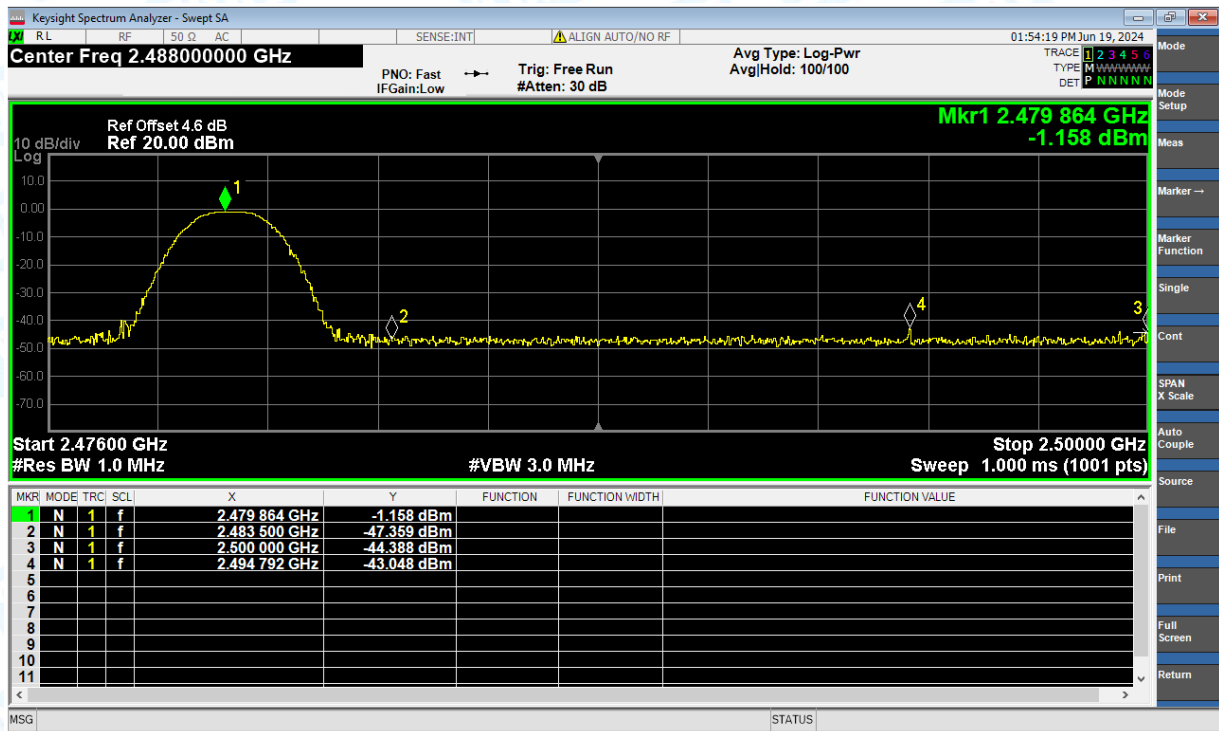
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



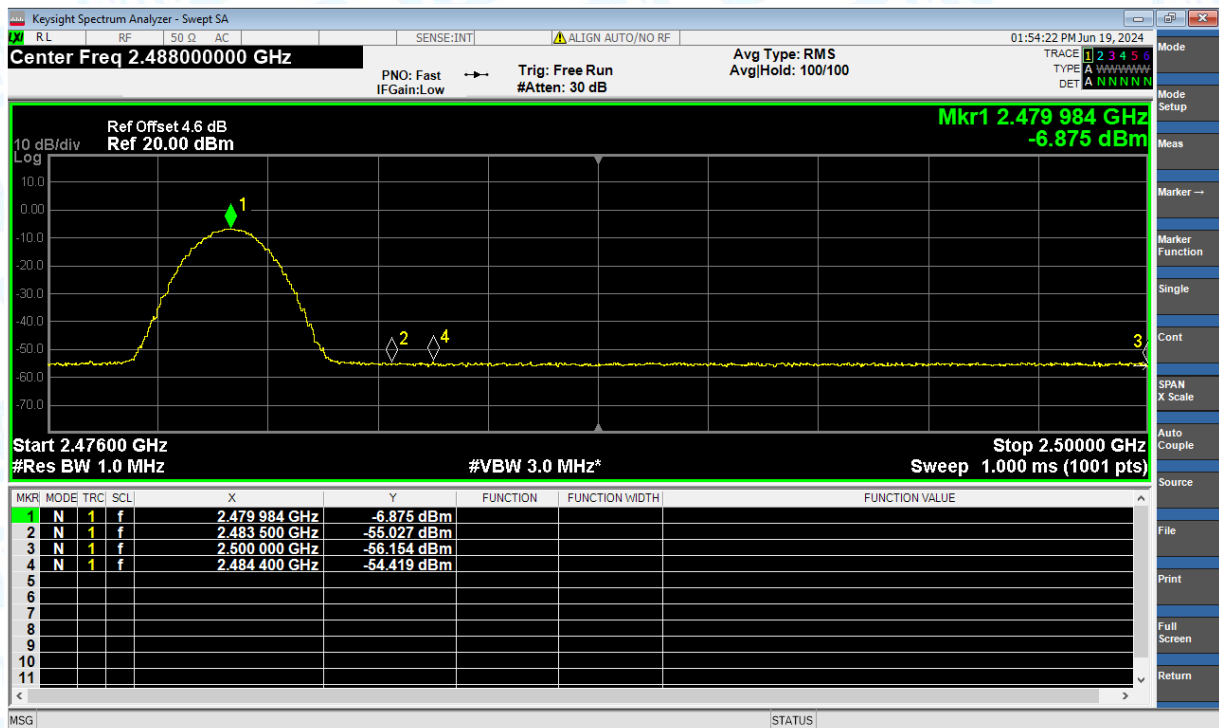
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



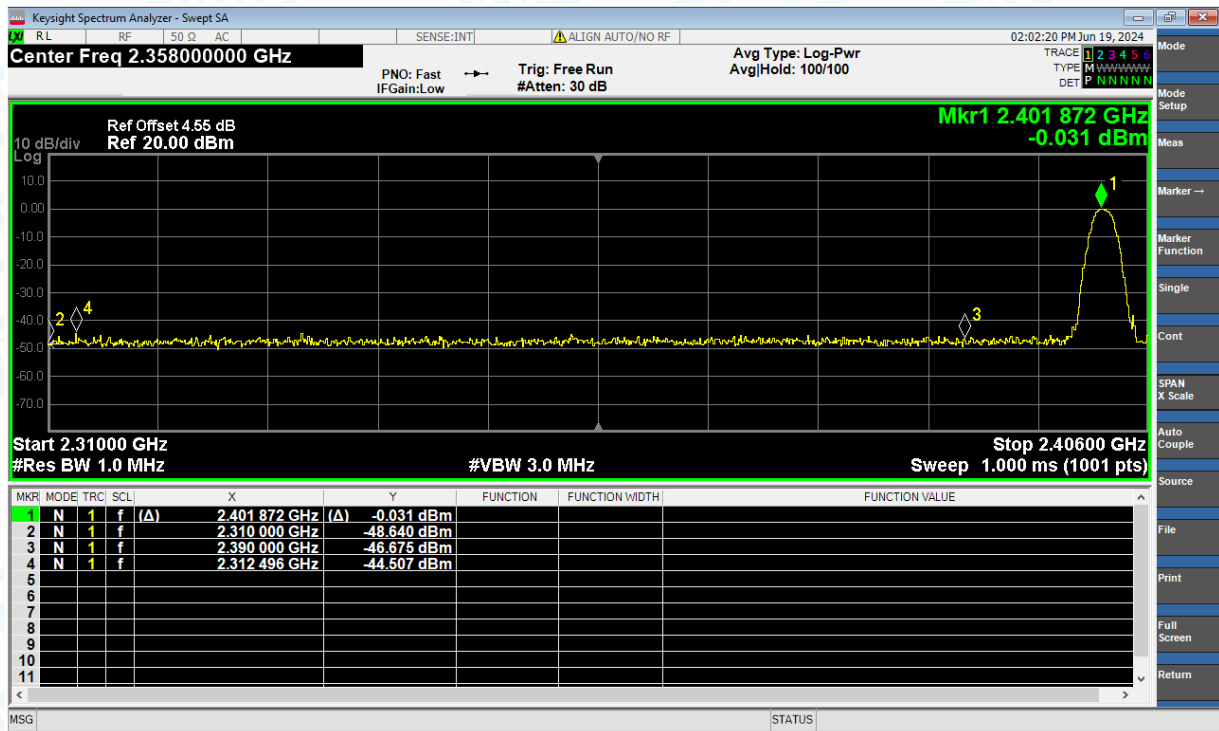
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



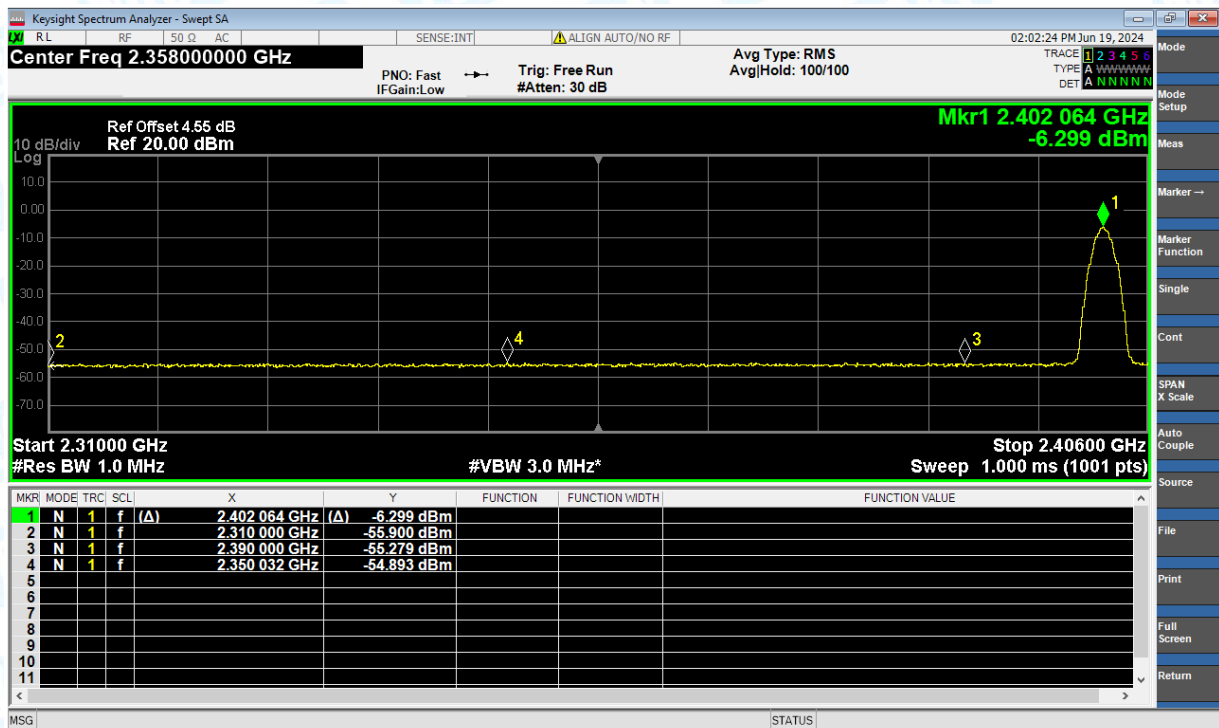
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



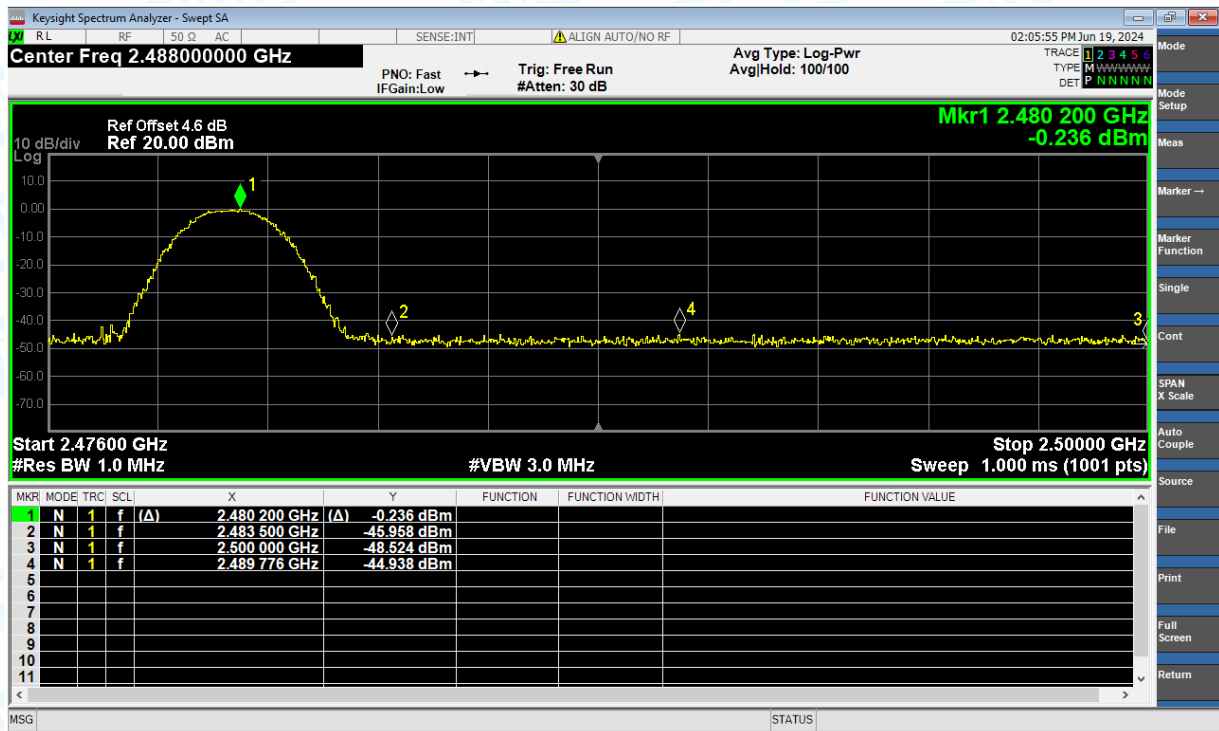
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



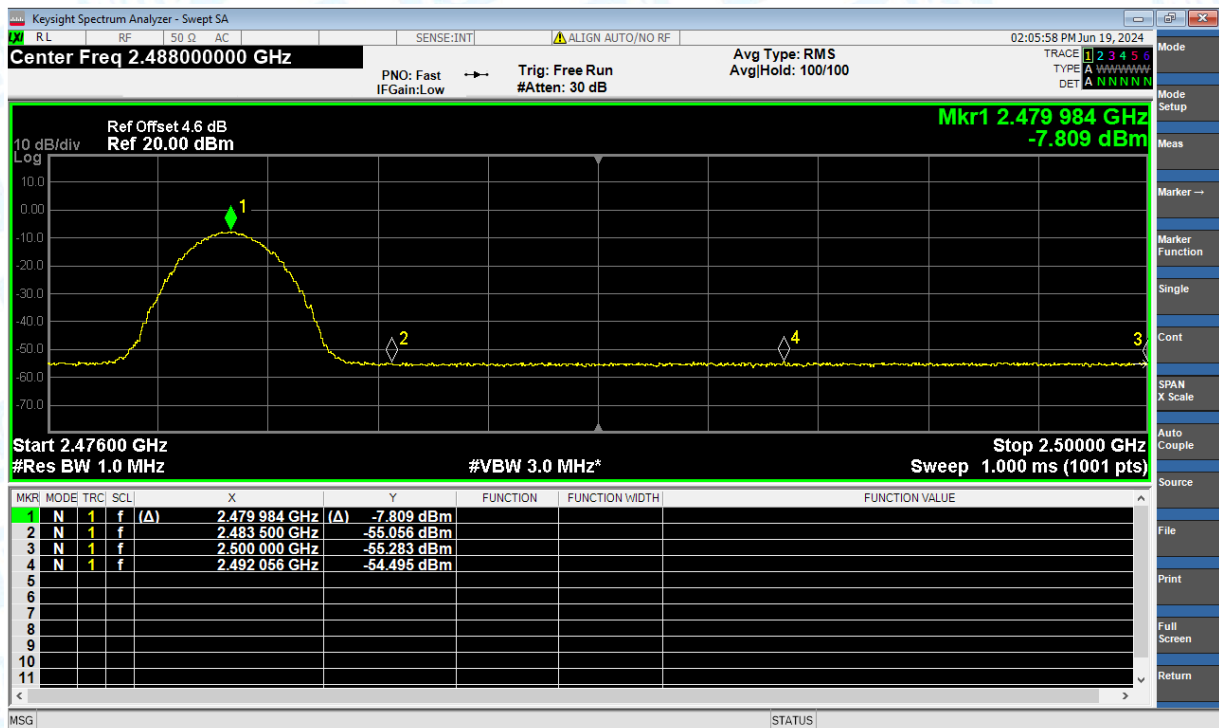
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average

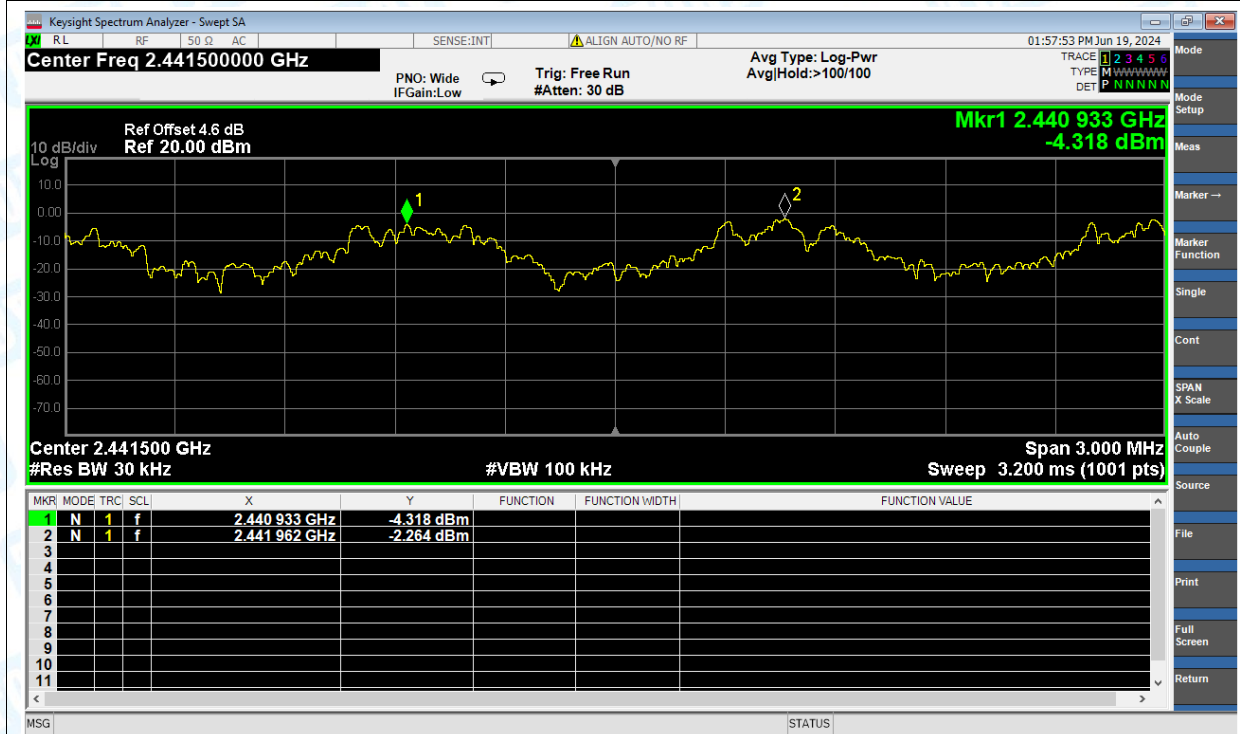


9. Carrier Frequencies Separation

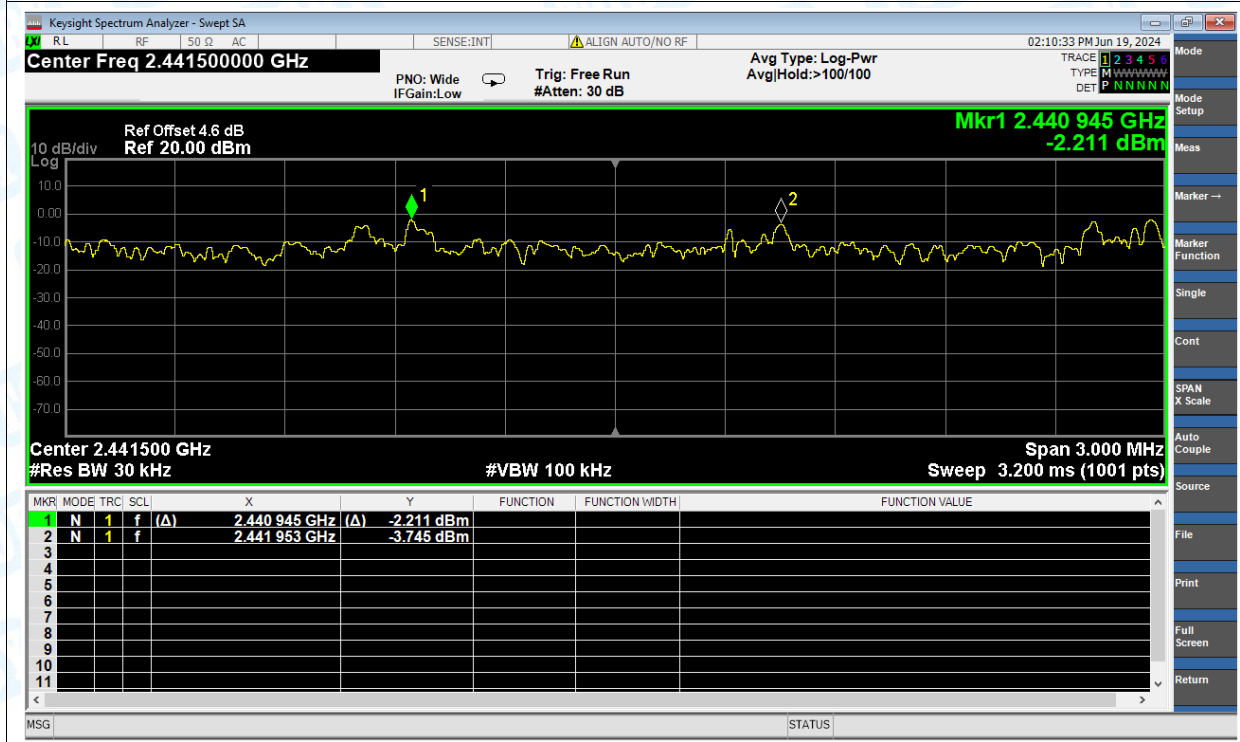
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.933	2441.962	1.029	0.68	Pass
NVNT	2-DH1	Ant1	2440.945	2441.953	1.008	0.86	Pass

Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1

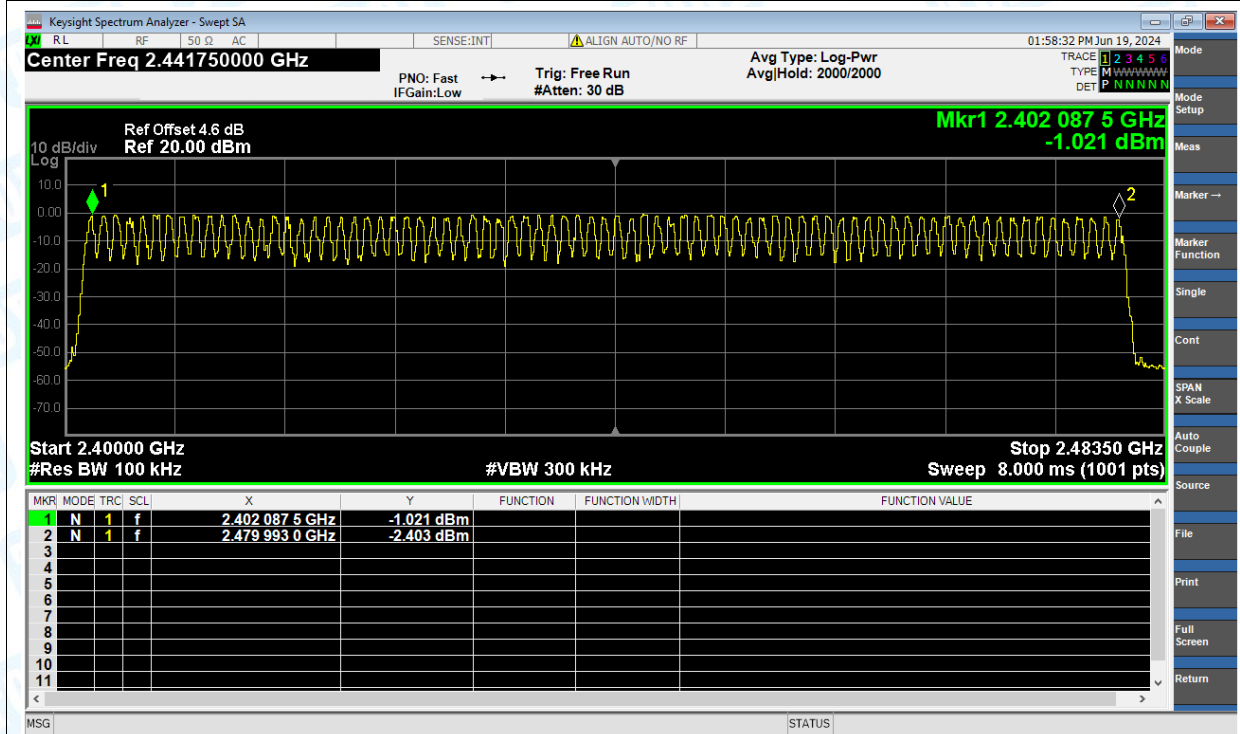


10. Number of Hopping Channel

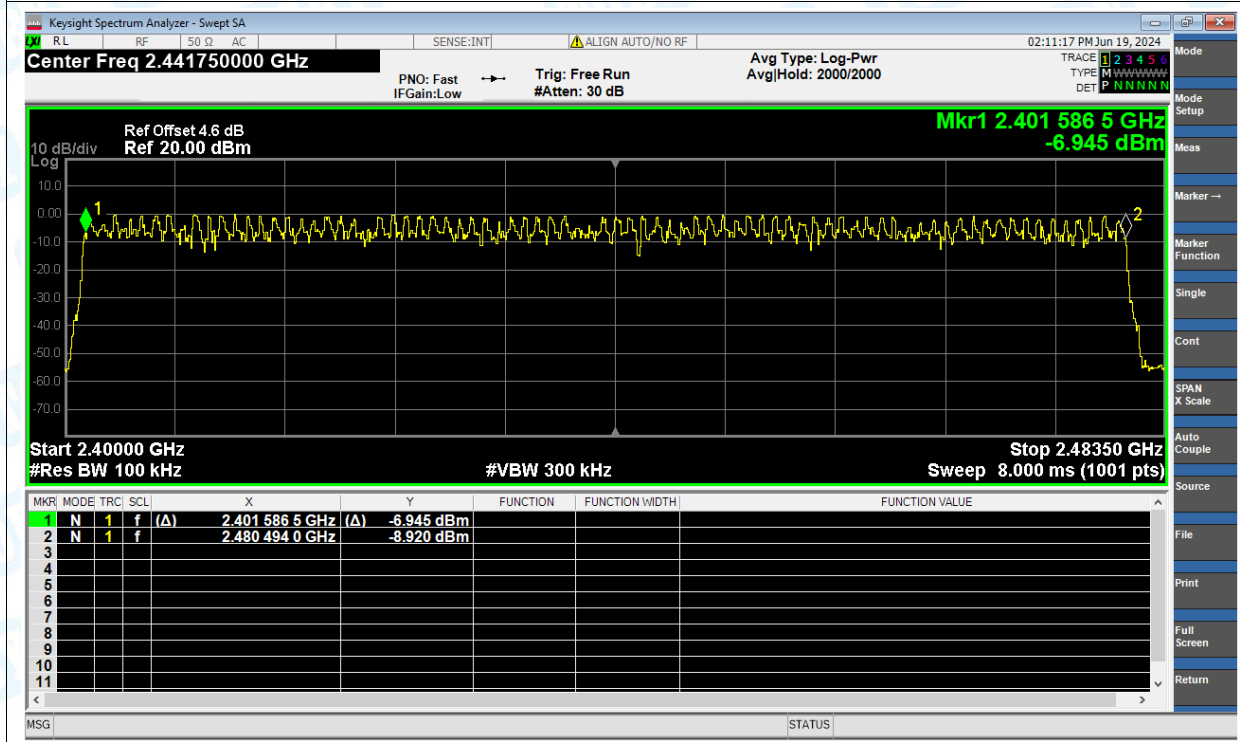
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1

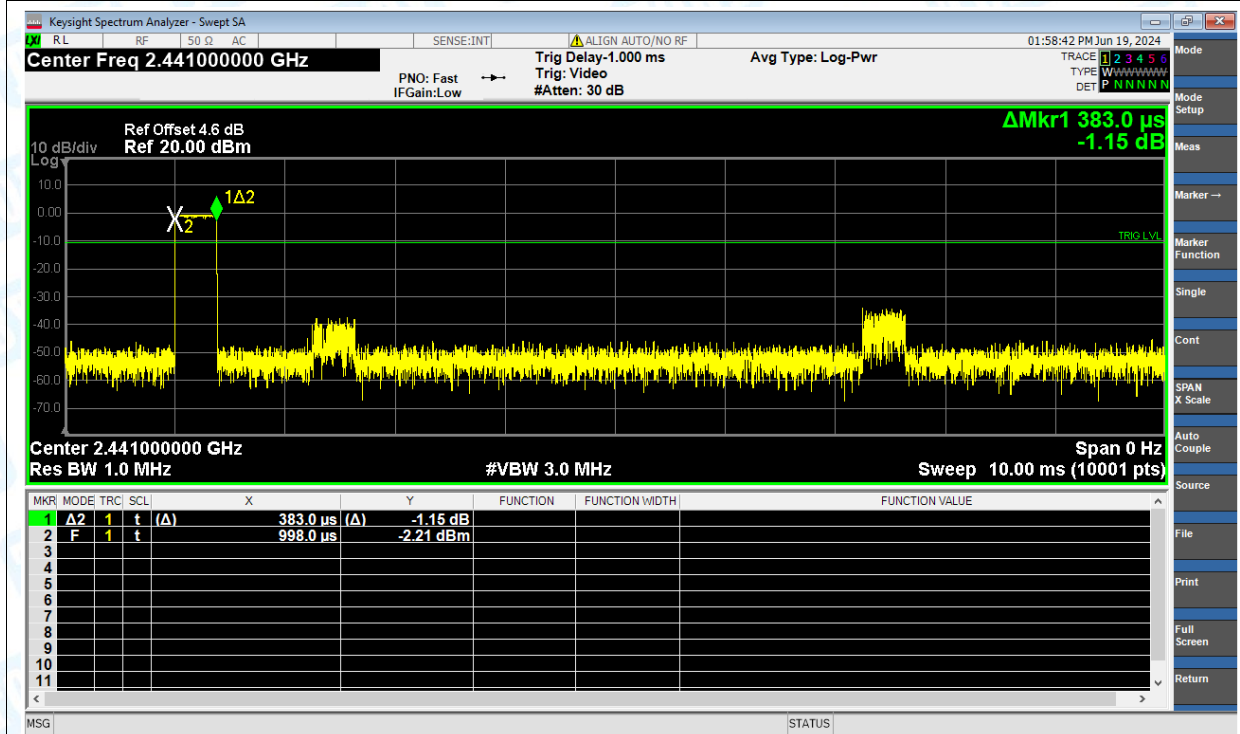


11. Dwell Time

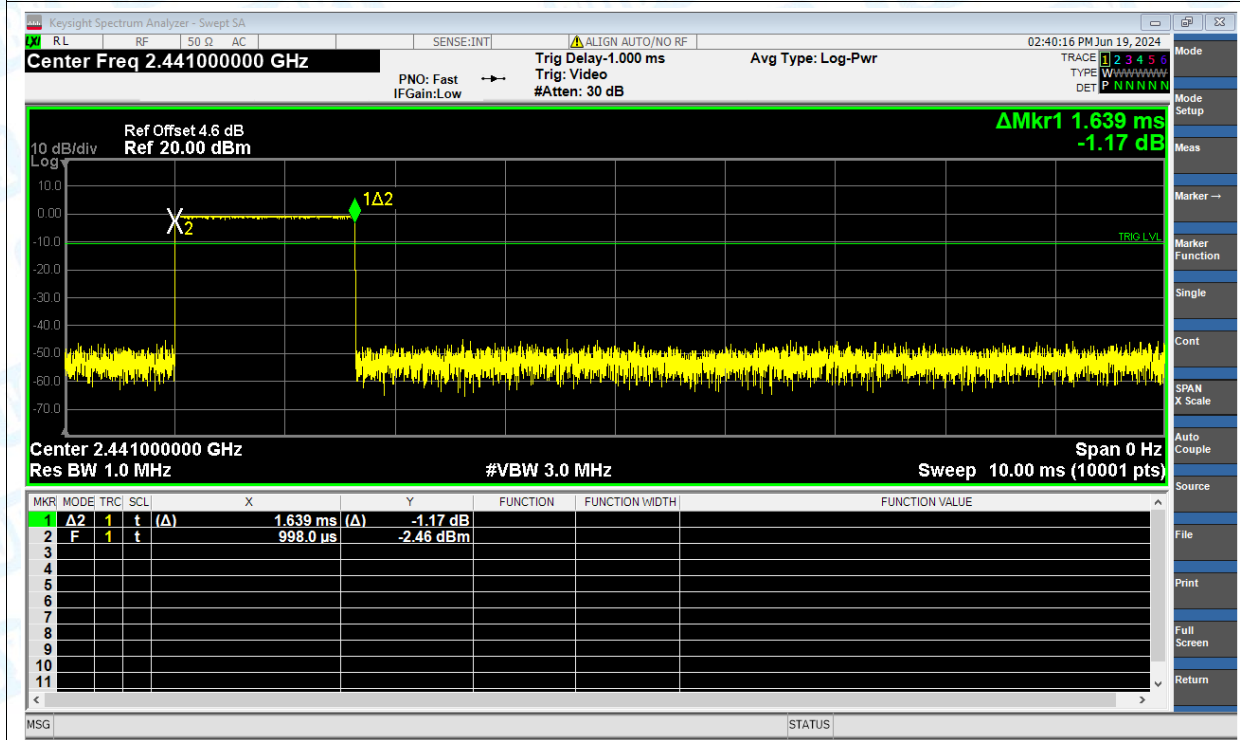
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.892	308.48	31600	400	Pass

Test Graphs

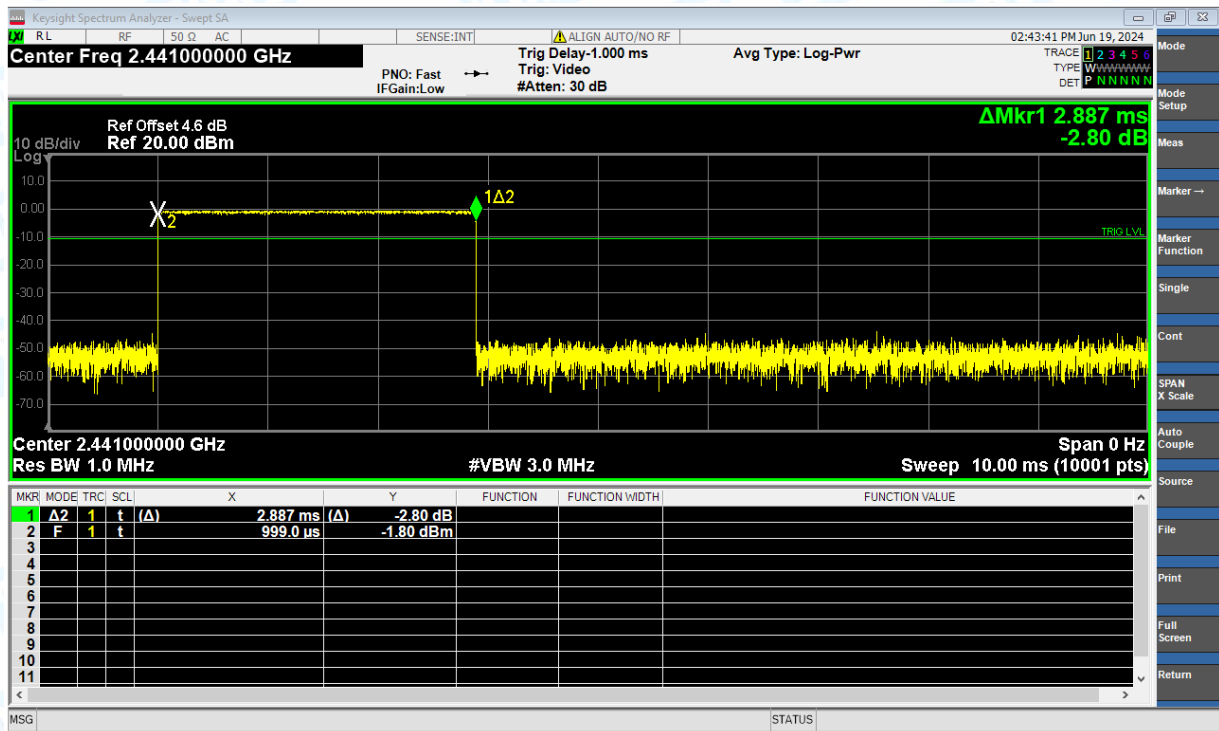
Dwell NVNT 1-DH1 2441MHz Ant1



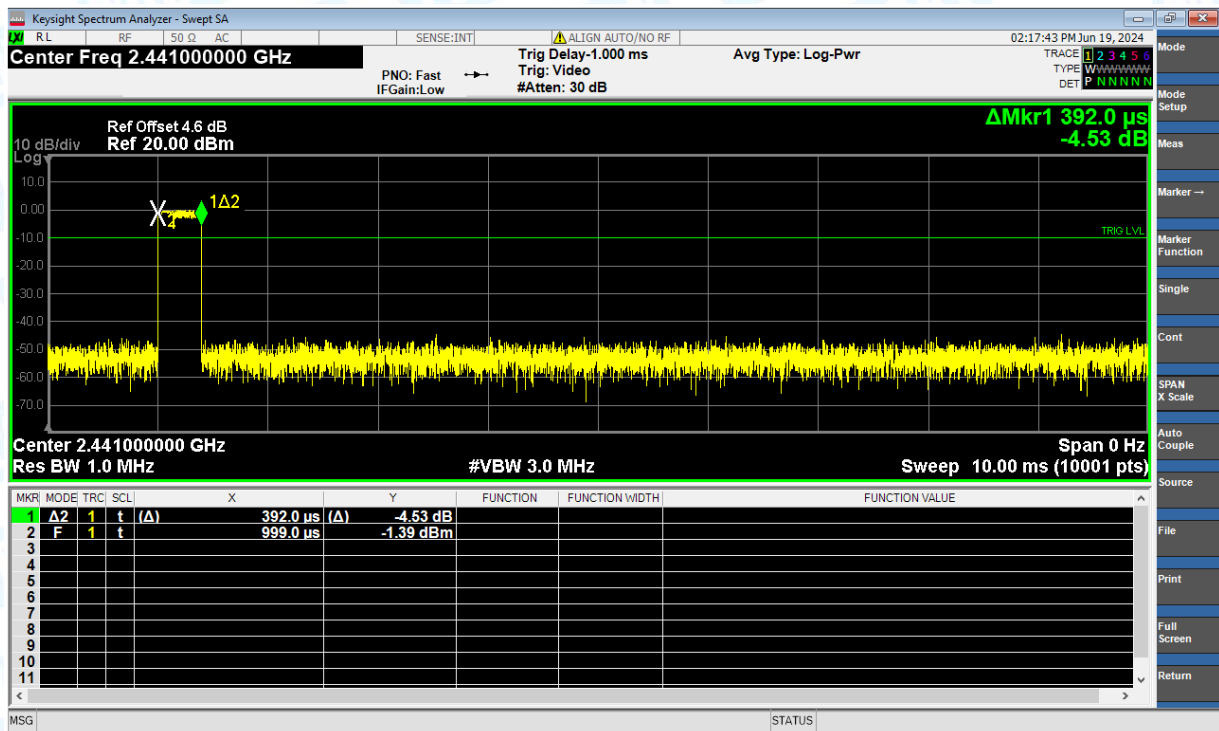
Dwell NVNT 1-DH3 2441MHz Ant1



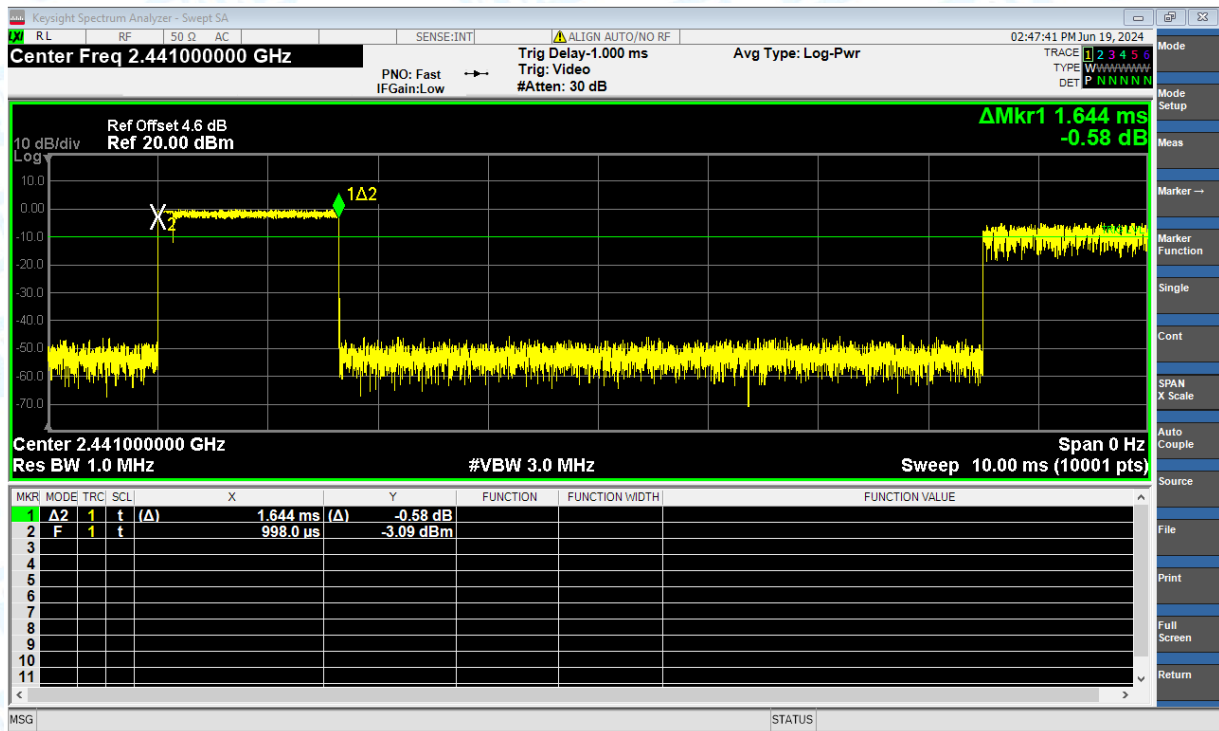
Dwell NVNT 1-DH5 2441MHz Ant1



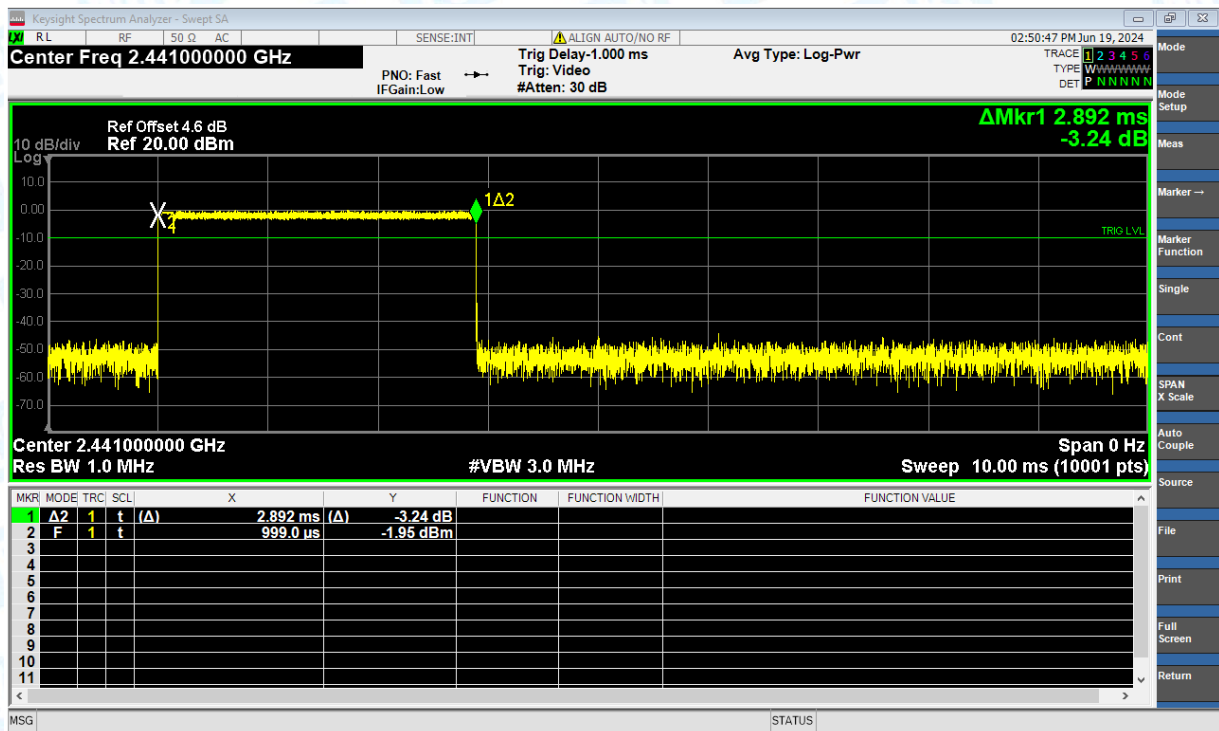
Dwell NVNT 2-DH1 2441MHz Ant1



Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



-----END OF THE REPORT-----