RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Audio Receiver
Test Model:	MI-11
Sample ID:	HC-C-202408-0162-02-01
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	52.3%
Test Voltage:	DC 3.7V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202408-0162-41 The report only show the worst case data.	

Contents

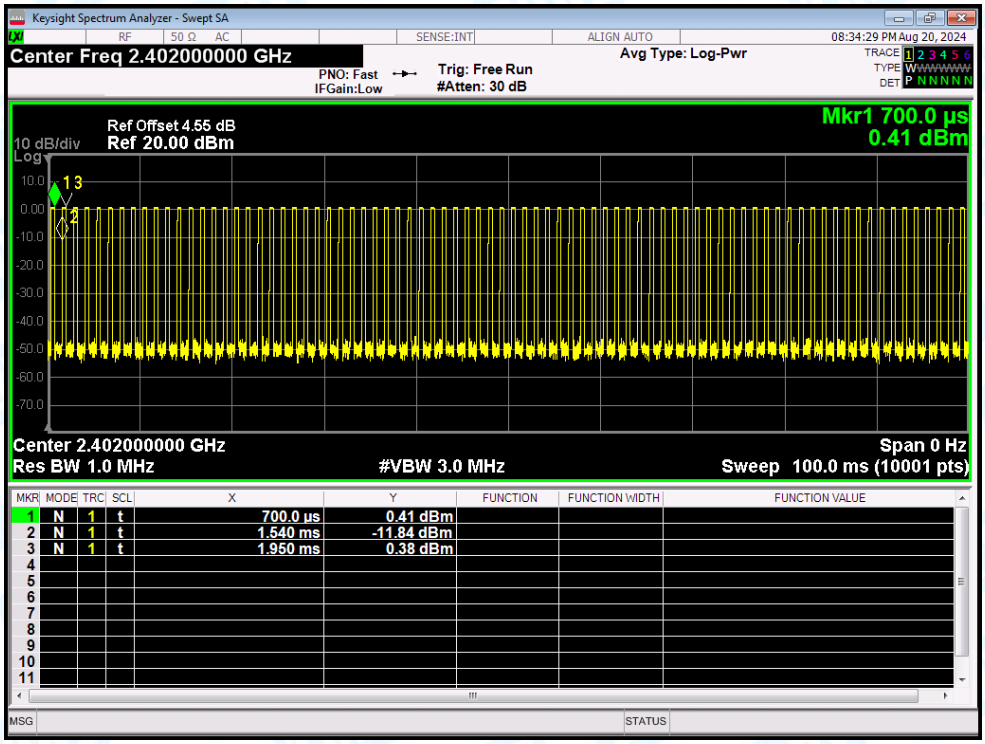
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1. Duty Cycle

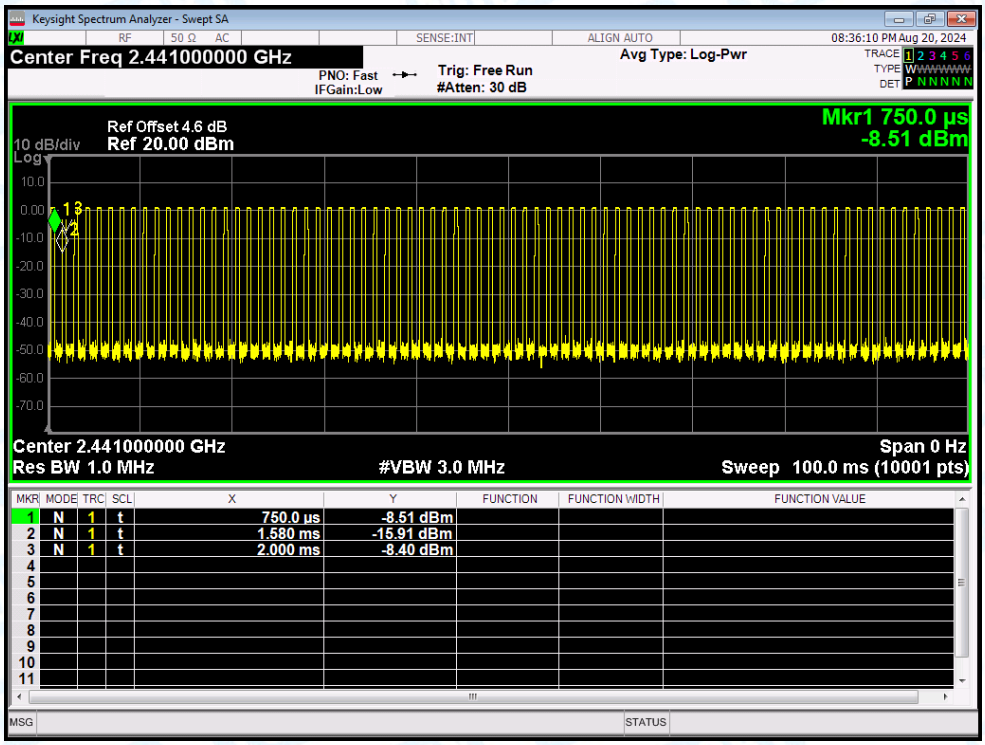
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	33.6	4.74	2.38
NVNT	1-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2402	Ant1	34.4	4.63	2.33
NVNT	2-DH1	2441	Ant1	33.6	4.74	2.38
NVNT	2-DH1	2480	Ant1	33.6	4.74	2.38
NVNT	3-DH1	2402	Ant1	33.6	4.74	2.38
NVNT	3-DH1	2441	Ant1	33.6	4.74	2.38
NVNT	3-DH1	2480	Ant1	33.6	4.74	2.38

Test Graphs

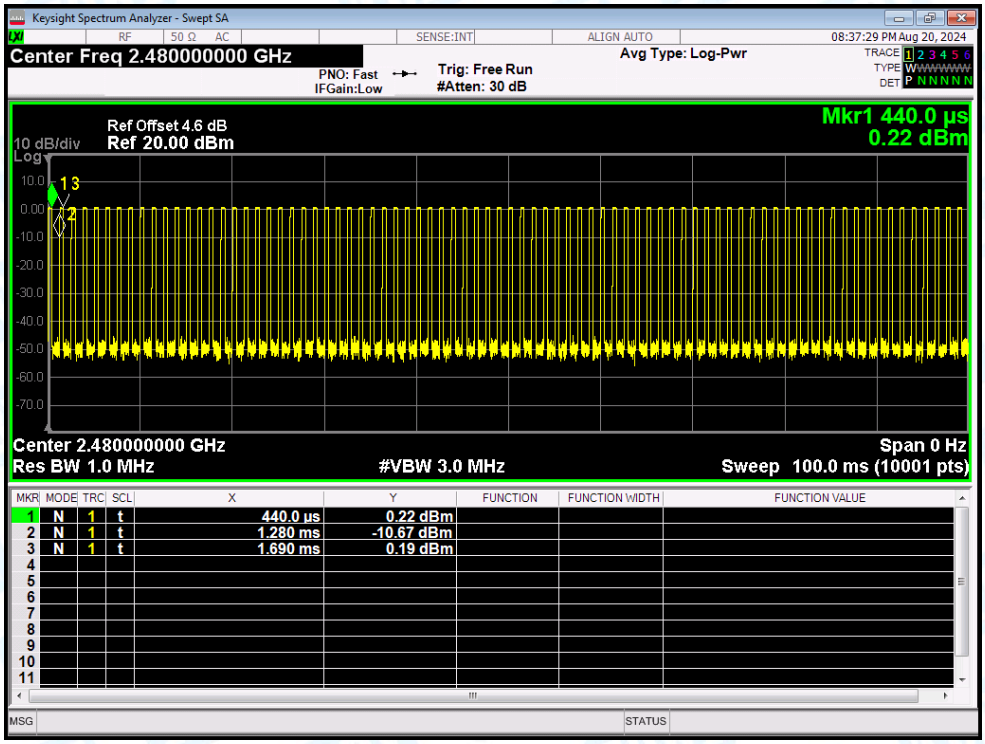
Duty Cycle NVNT 1-DH1 2402MHz Ant1



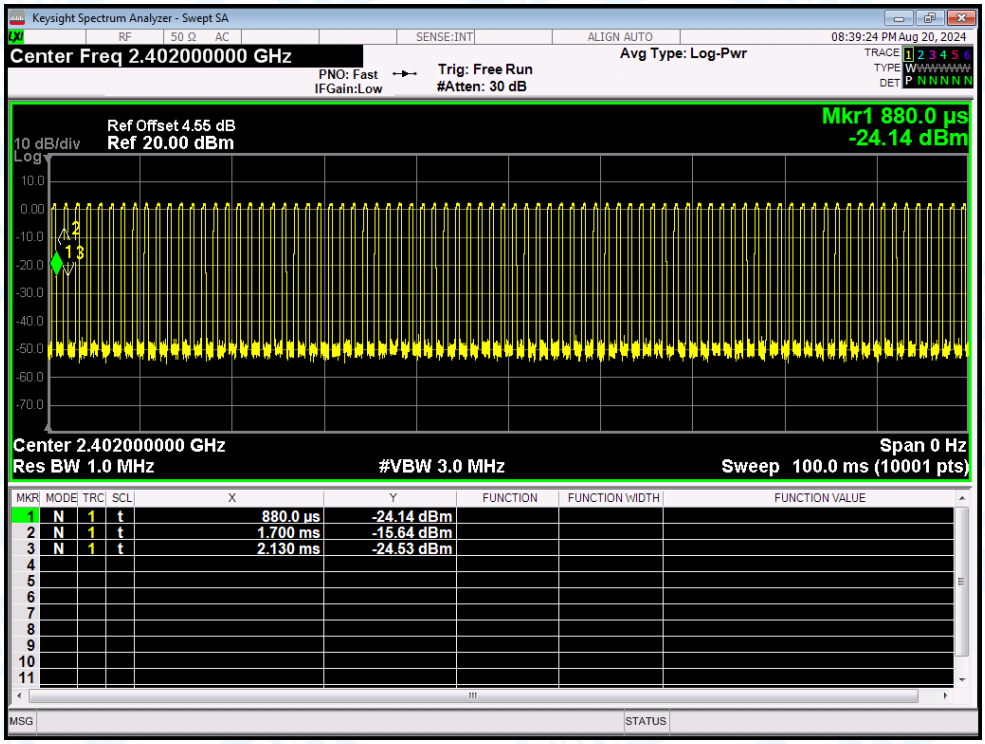
Duty Cycle NVNT 1-DH1 2441MHz Ant1



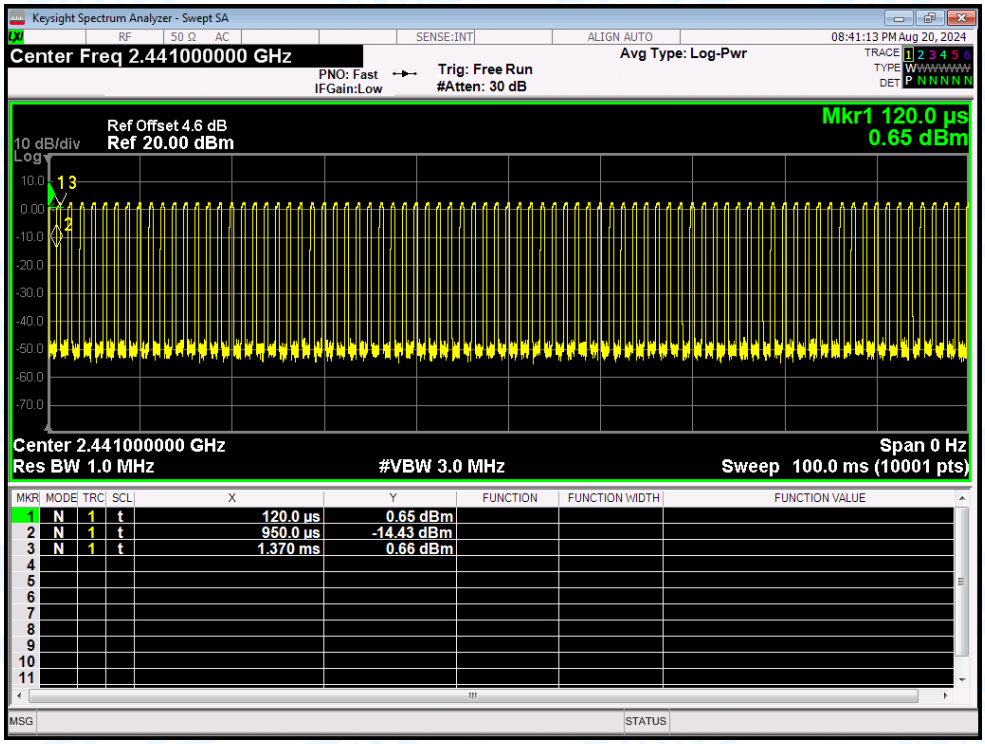
Duty Cycle NVNT 1-DH1 2480MHz Ant1



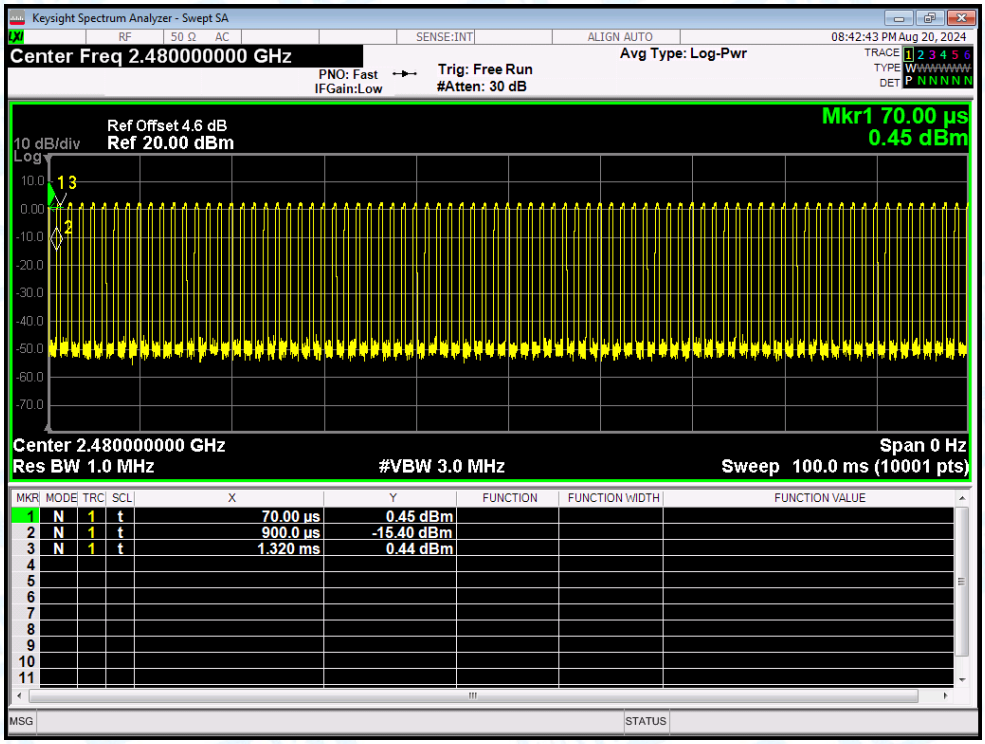
Duty Cycle NVNT 2-DH1 2402MHz Ant1



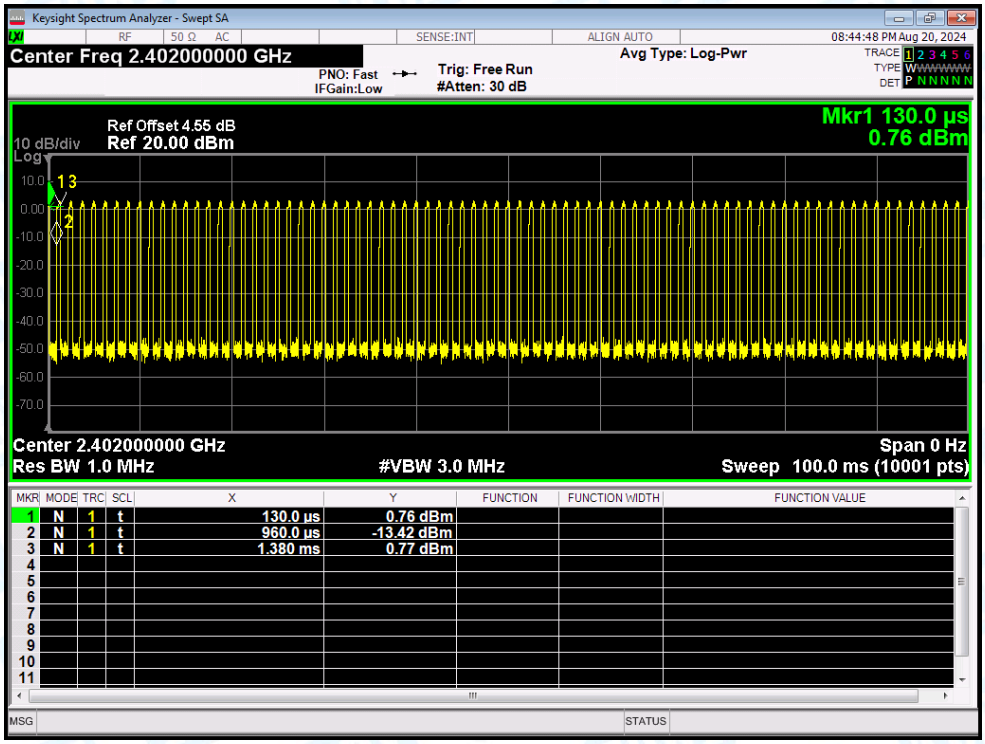
Duty Cycle NVNT 2-DH1 2441MHz Ant1



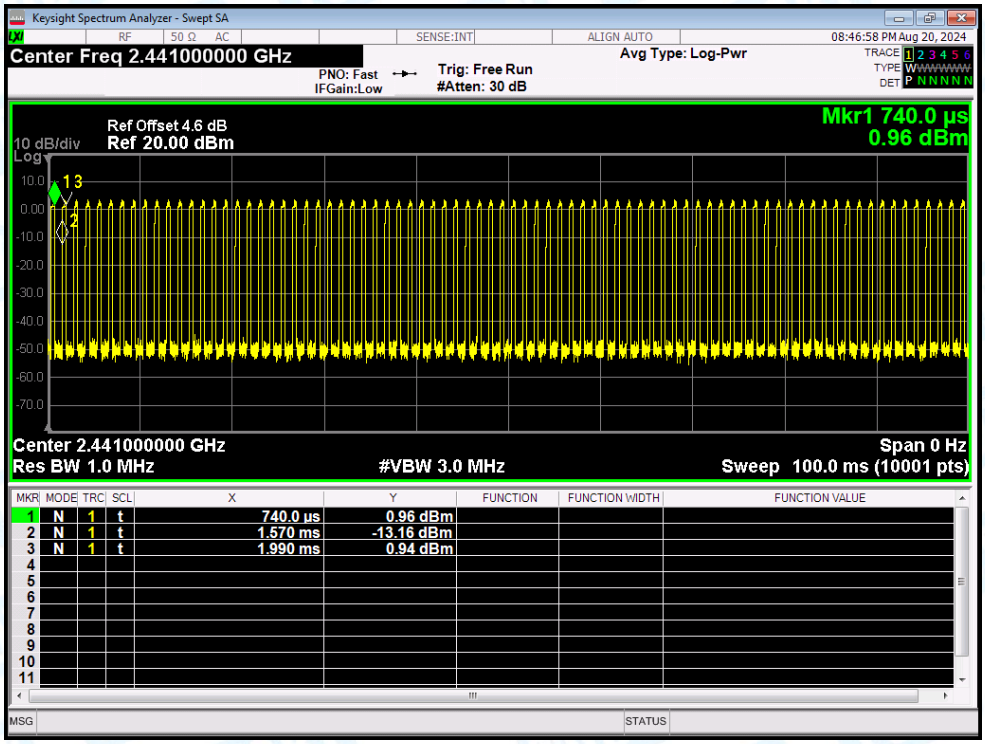
Duty Cycle NVNT 2-DH1 2480MHz Ant1



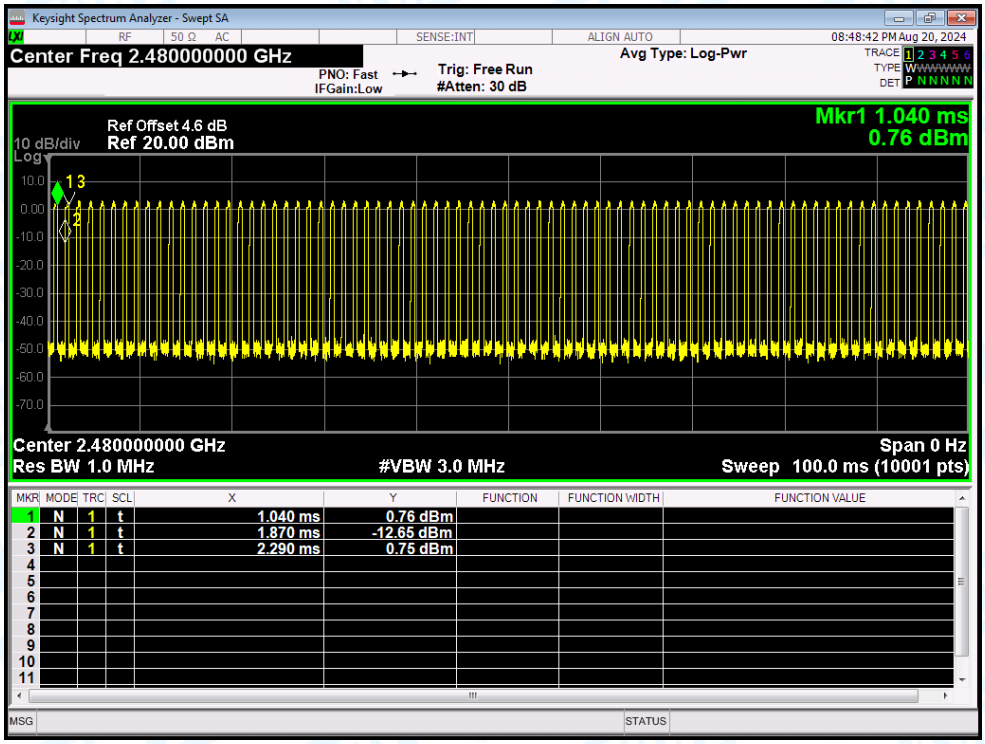
Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



Duty Cycle NVNT 3-DH1 2480MHz Ant1

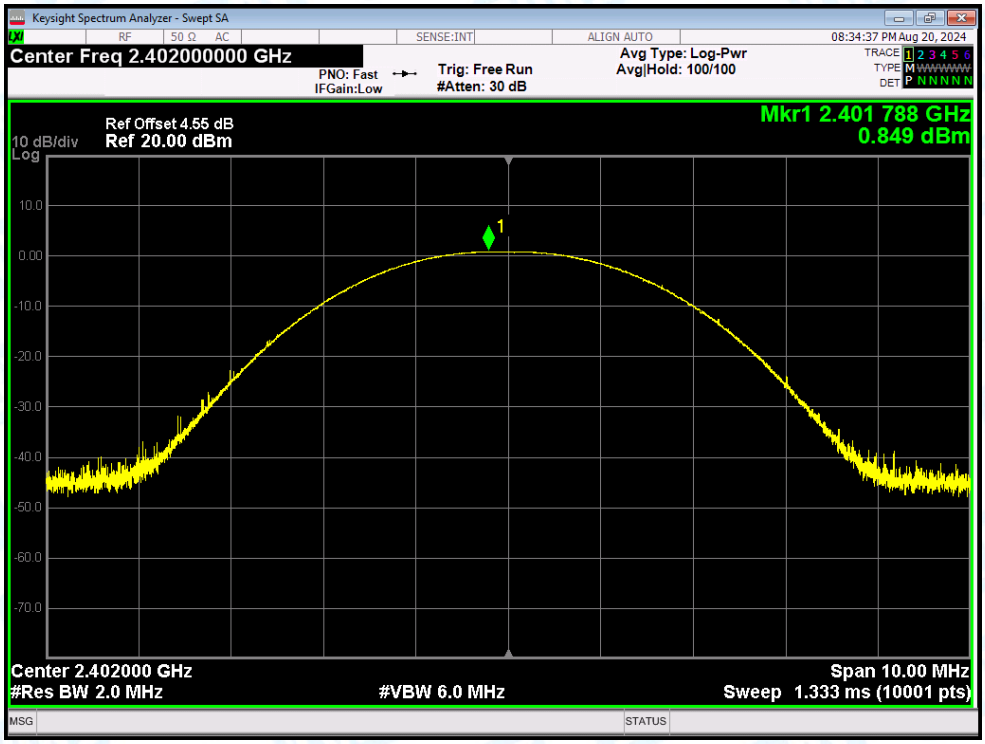


2. Maximum Conducted Output Power

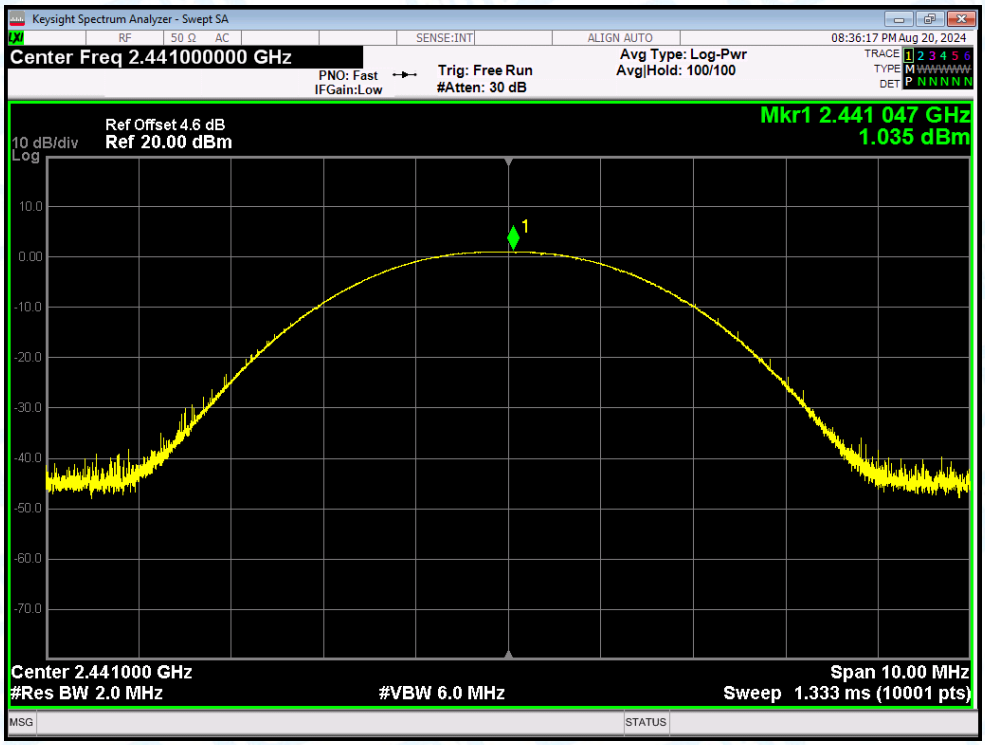
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	0.849	0	0.849	21	Pass
NVNT	1-DH1	2441	Ant1	1.035	0	1.035	21	Pass
NVNT	1-DH1	2480	Ant1	0.678	0	0.678	21	Pass
NVNT	2-DH1	2402	Ant1	2.676	0	2.676	21	Pass
NVNT	2-DH1	2441	Ant1	2.95	0	2.95	21	Pass
NVNT	2-DH1	2480	Ant1	2.762	0	2.762	21	Pass
NVNT	3-DH1	2402	Ant1	3.619	0	3.619	21	Pass
NVNT	3-DH1	2441	Ant1	3.681	0	3.681	21	Pass
NVNT	3-DH1	2480	Ant1	3.586	0	3.586	21	Pass

Test Graphs

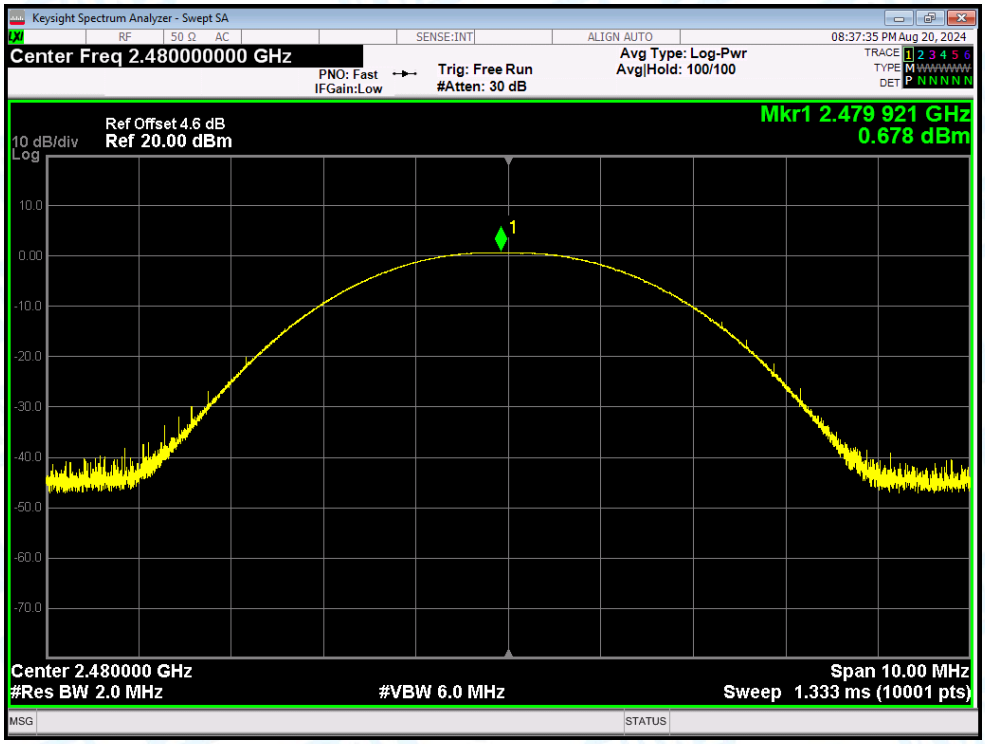
Power NVNT 1-DH1 2402MHz Ant1



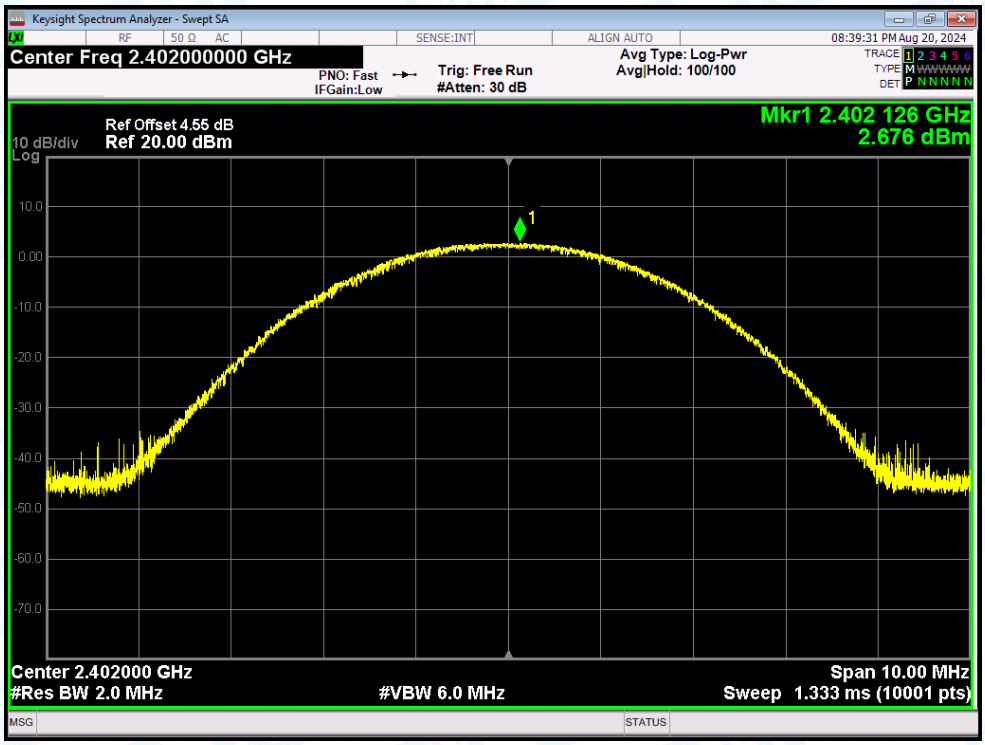
Power NVNT 1-DH1 2441MHz Ant1



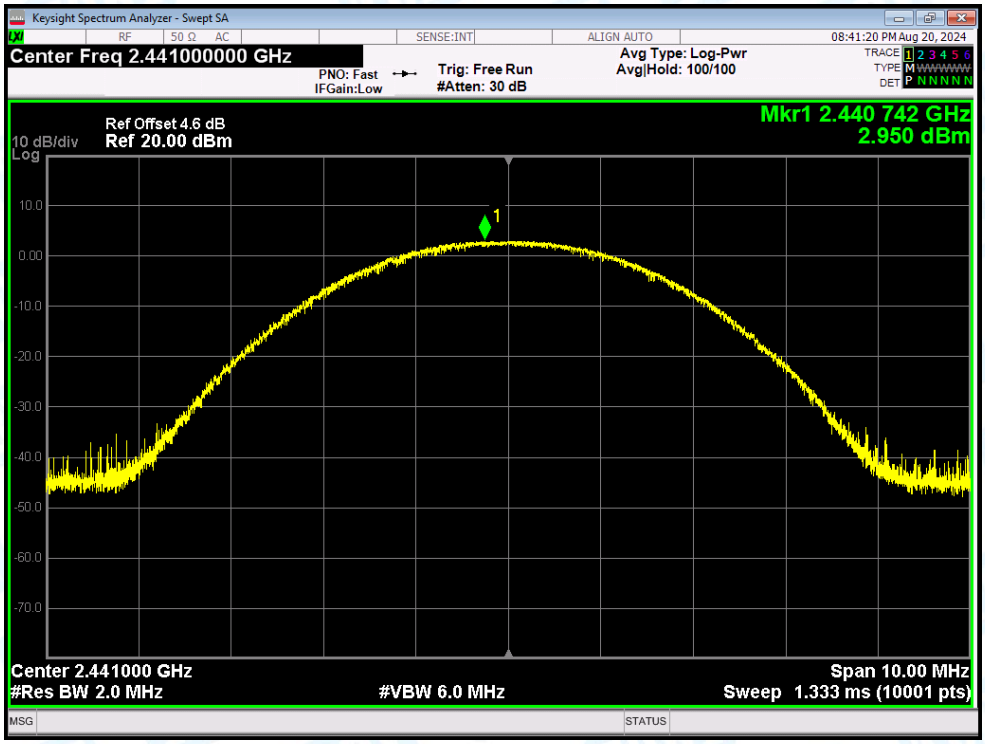
Power NVNT 1-DH1 2480MHz Ant1



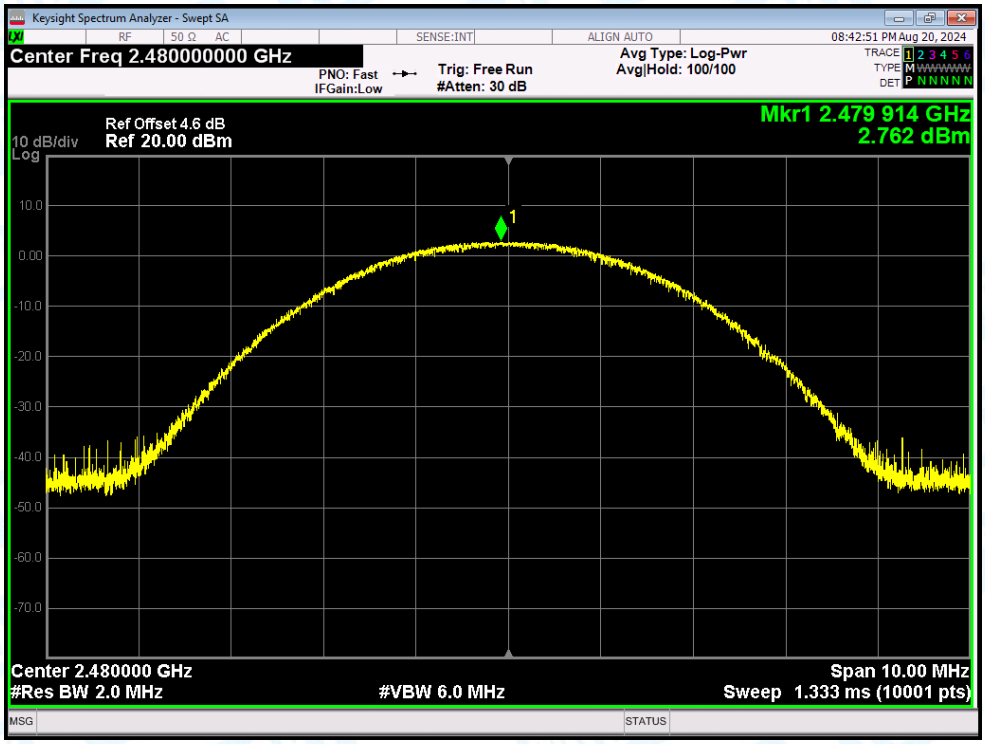
Power NVNT 2-DH1 2402MHz Ant1



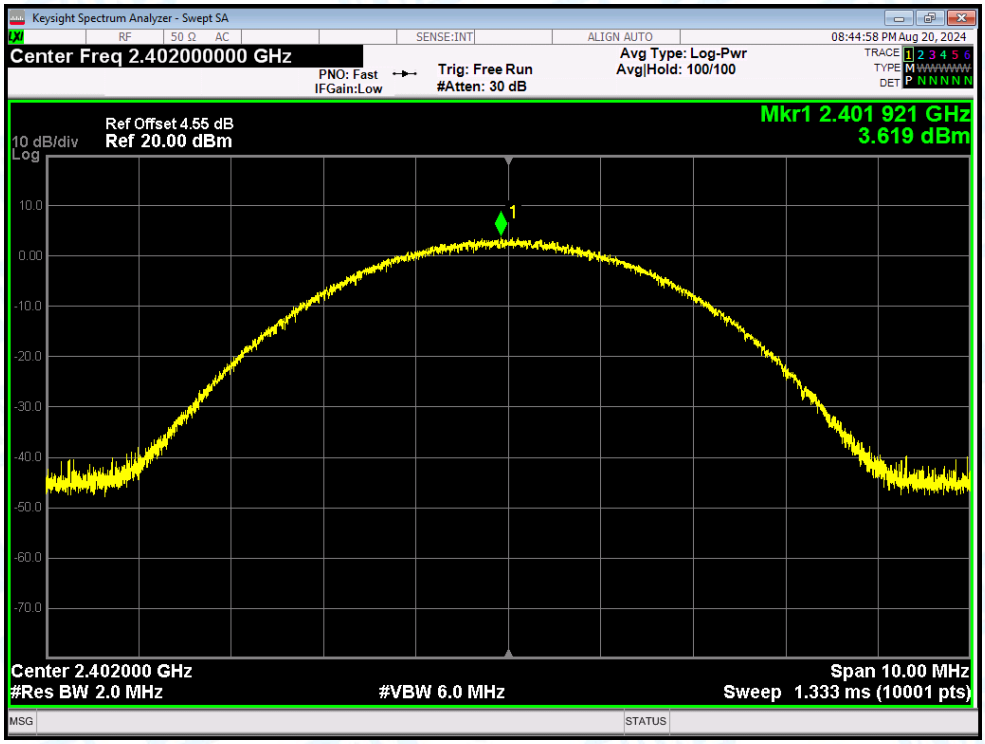
Power NVNT 2-DH1 2441MHz Ant1



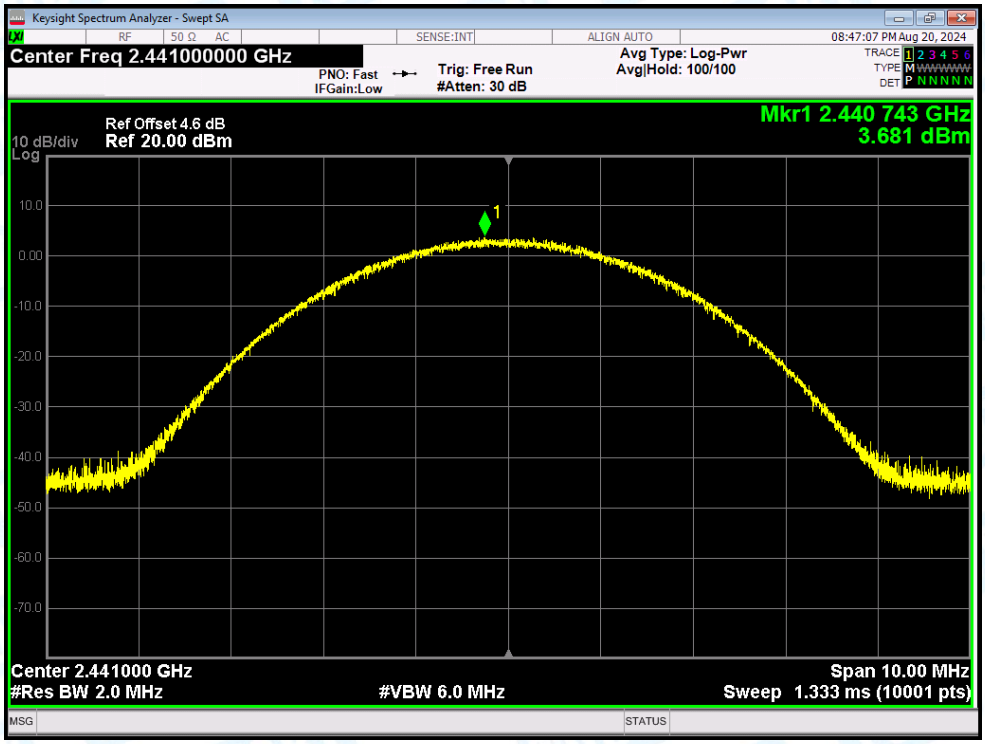
Power NVNT 2-DH1 2480MHz Ant1



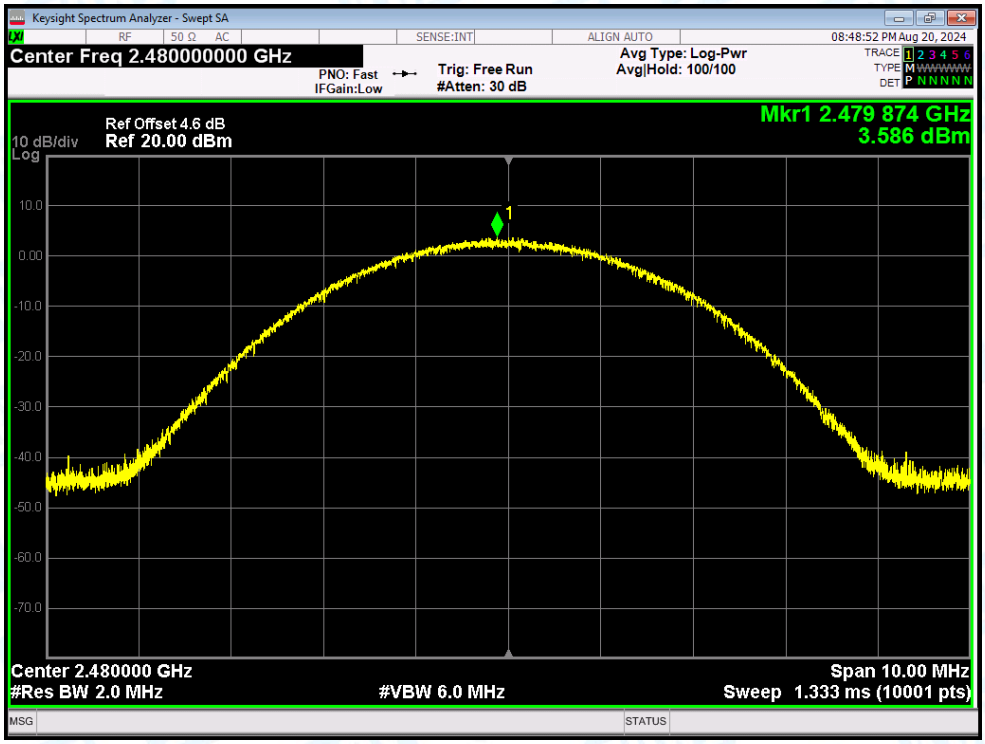
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



Power NVNT 3-DH1 2480MHz Ant1

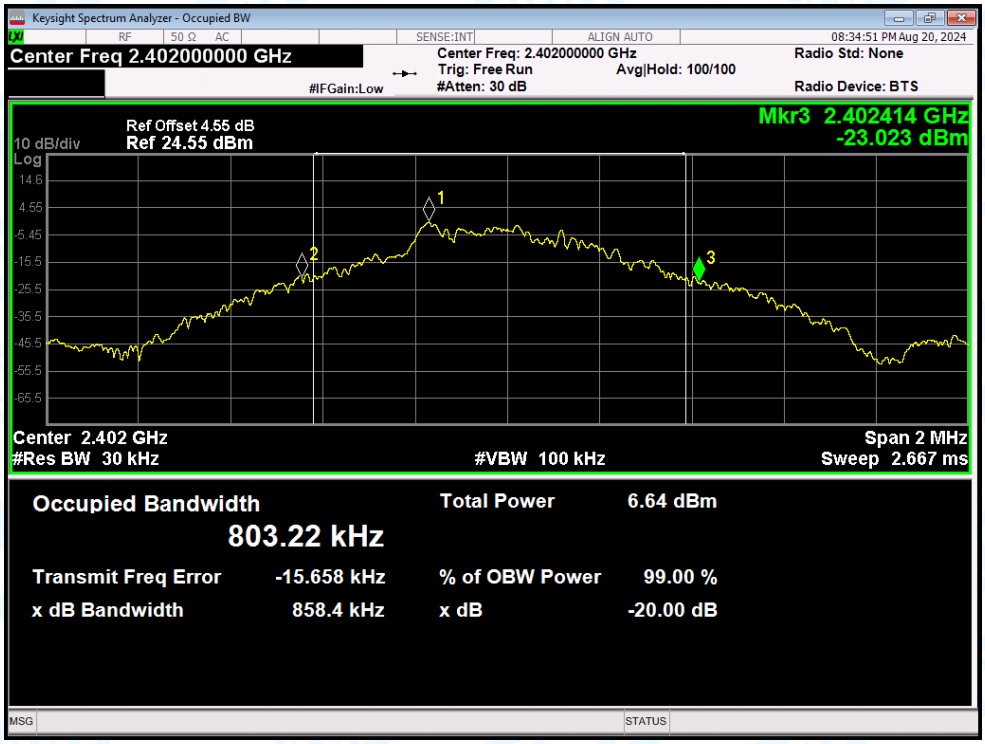


3. -20dB Bandwidth

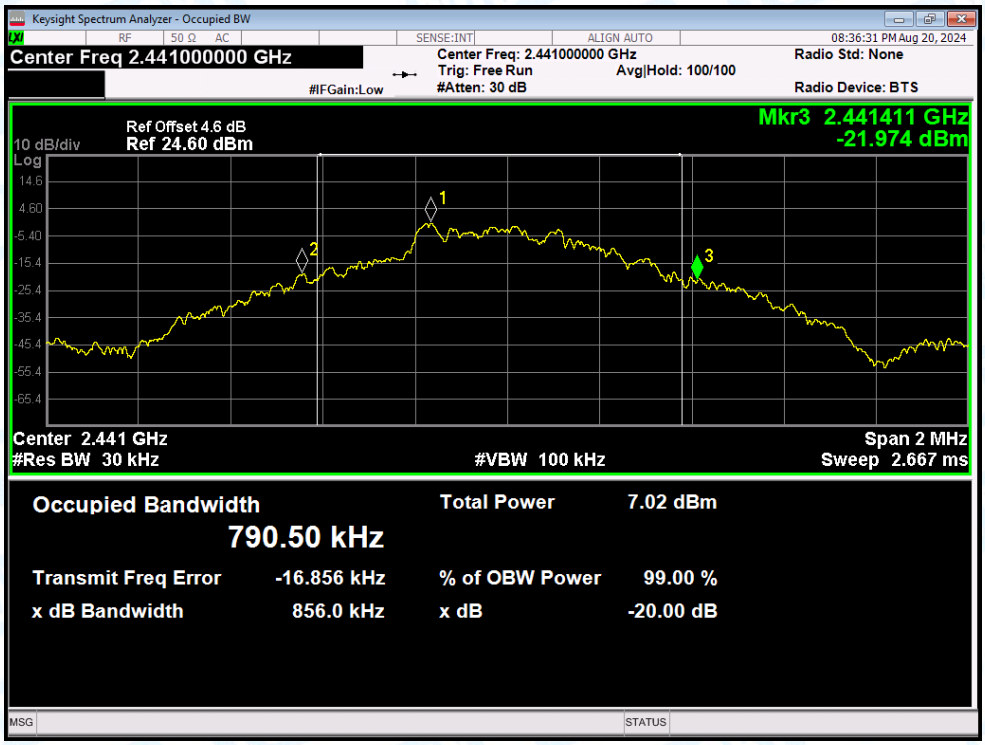
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.86	0	Pass
NVNT	1-DH1	2441	Ant1	0.86	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.26	0	Pass
NVNT	2-DH1	2441	Ant1	1.26	0	Pass
NVNT	2-DH1	2480	Ant1	1.27	0	Pass
NVNT	3-DH1	2402	Ant1	1.24	0	Pass
NVNT	3-DH1	2441	Ant1	1.25	0	Pass
NVNT	3-DH1	2480	Ant1	1.25	0	Pass

Test Graphs

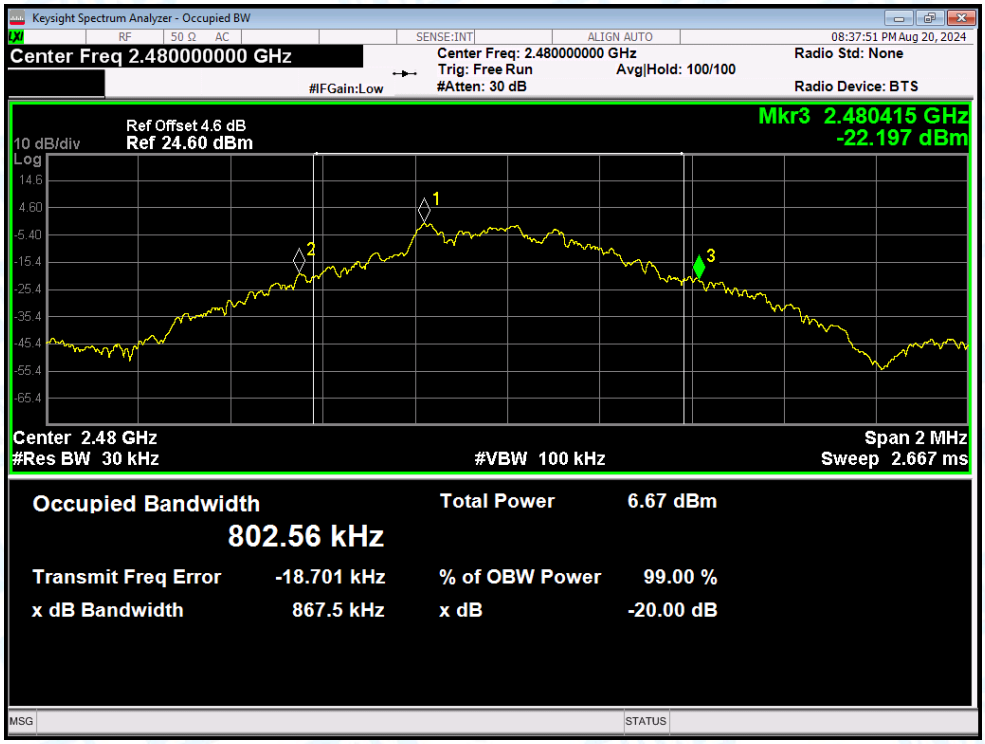
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



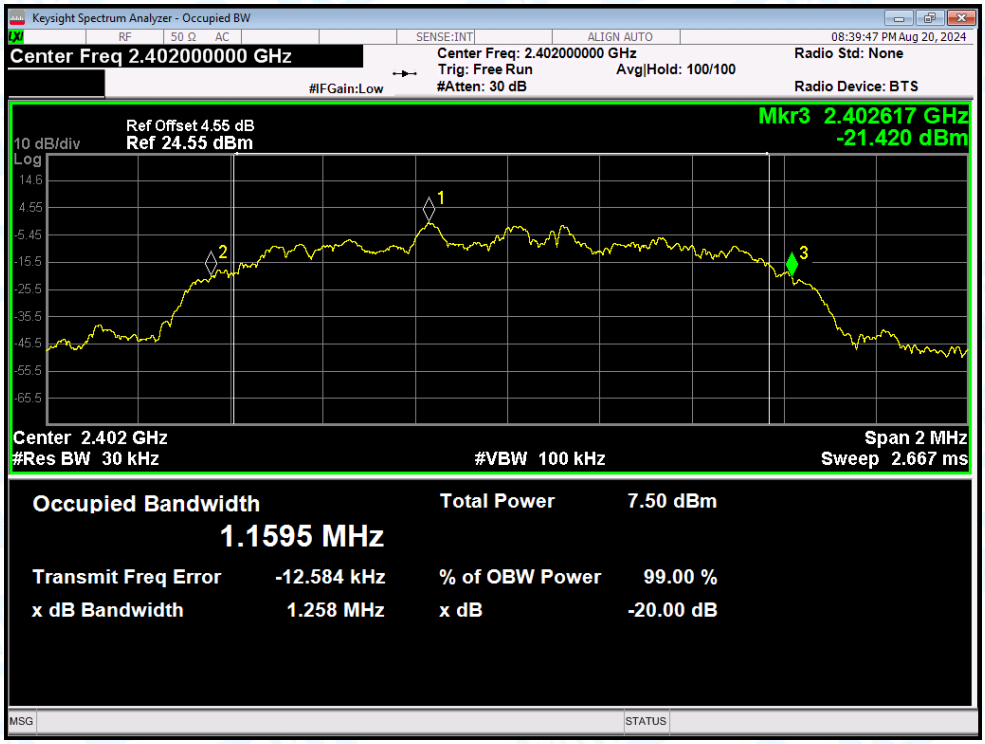
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



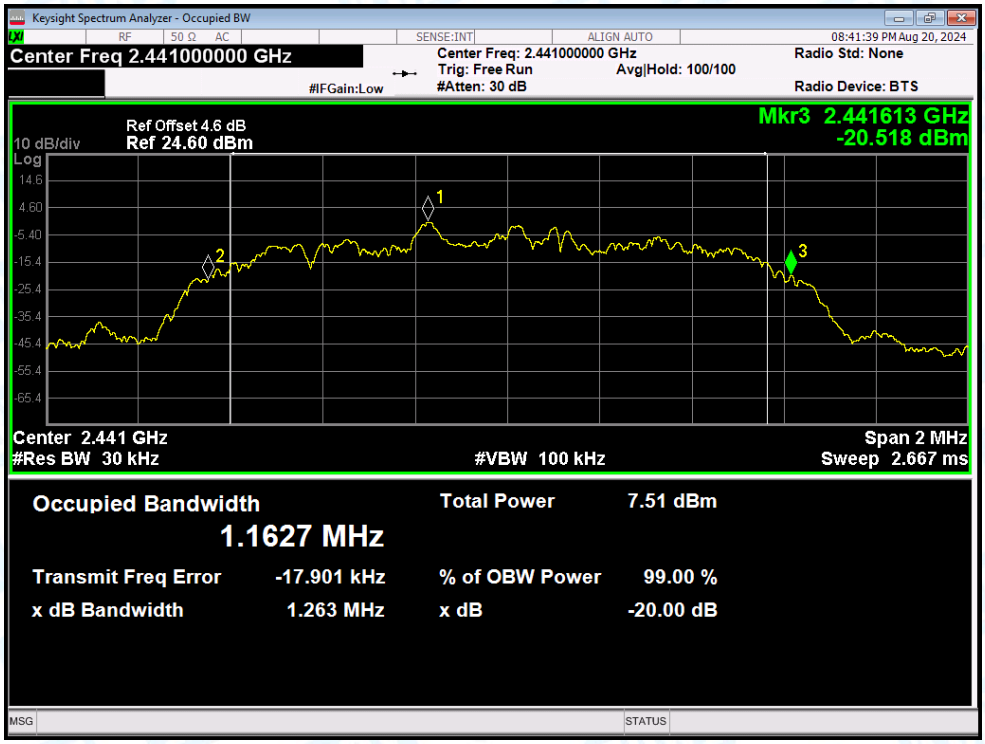
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



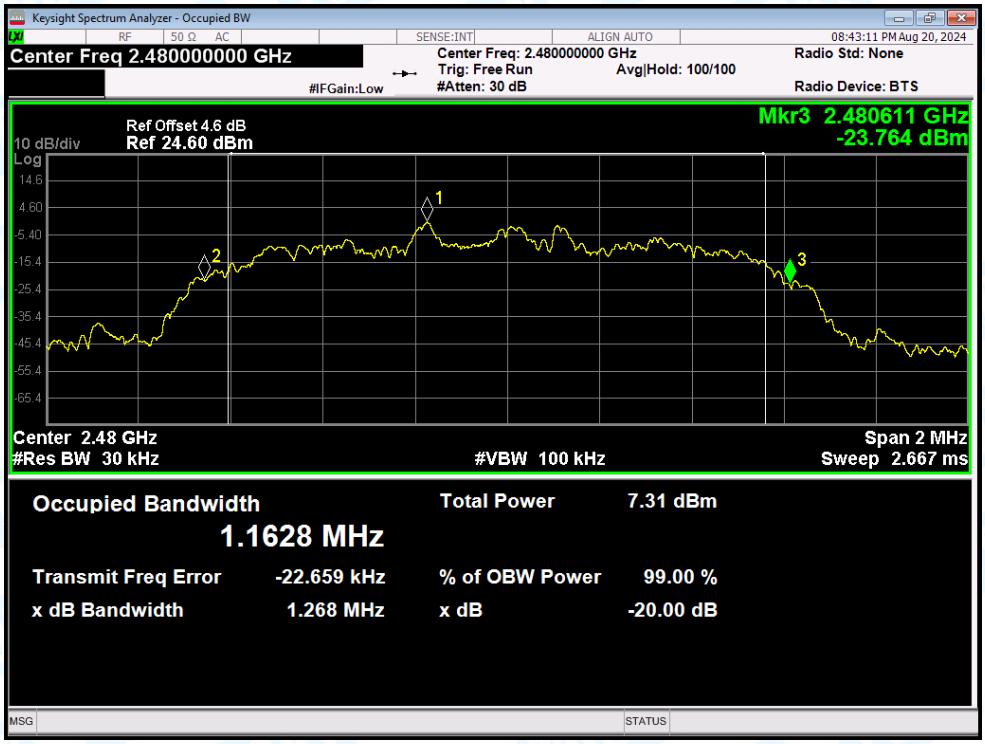
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



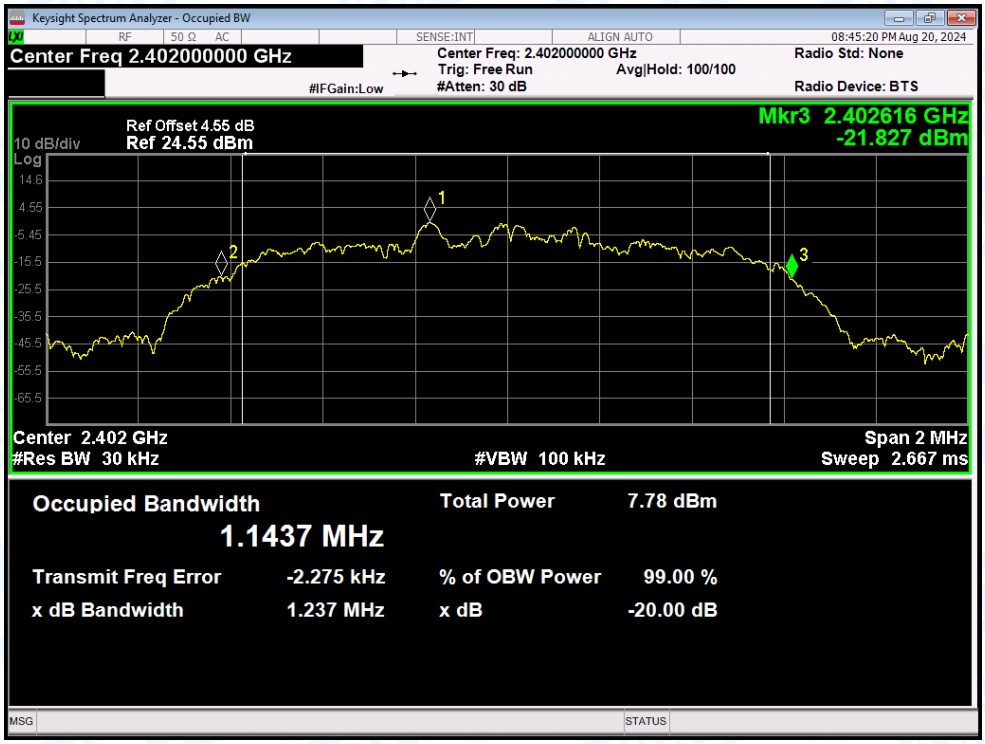
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



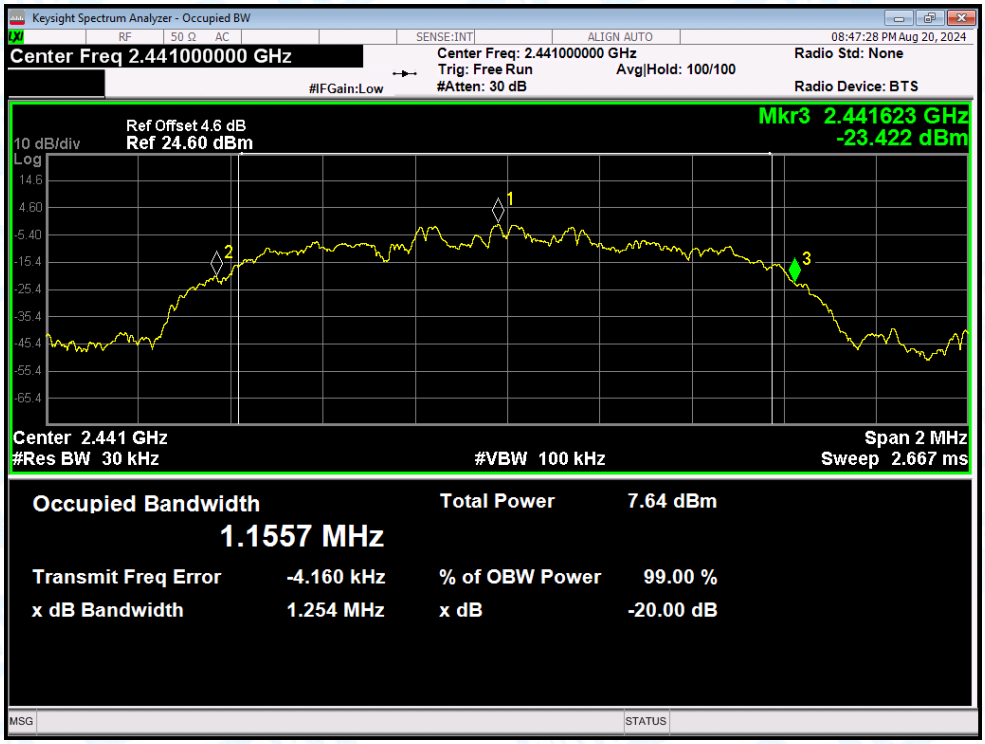
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



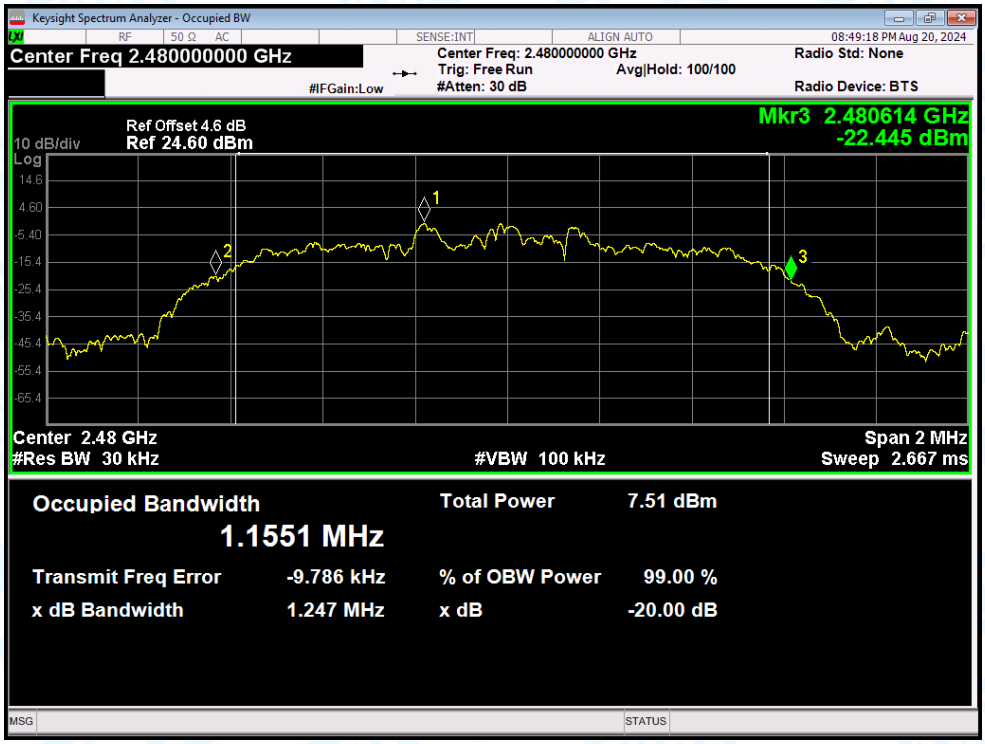
-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1

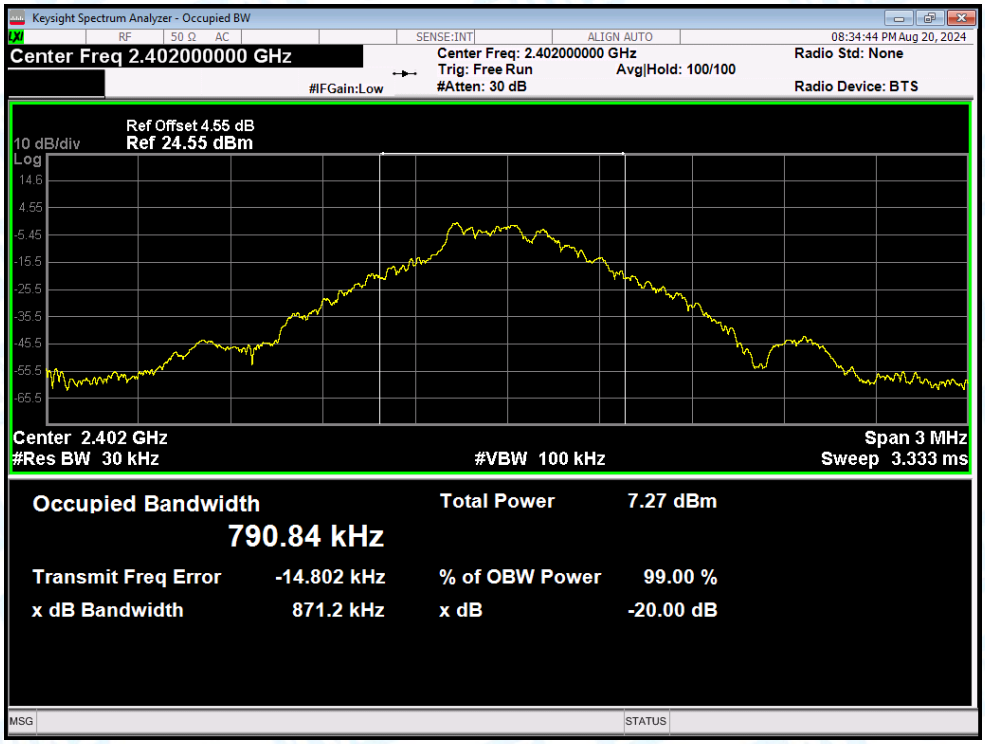


4. Occupied Channel Bandwidth

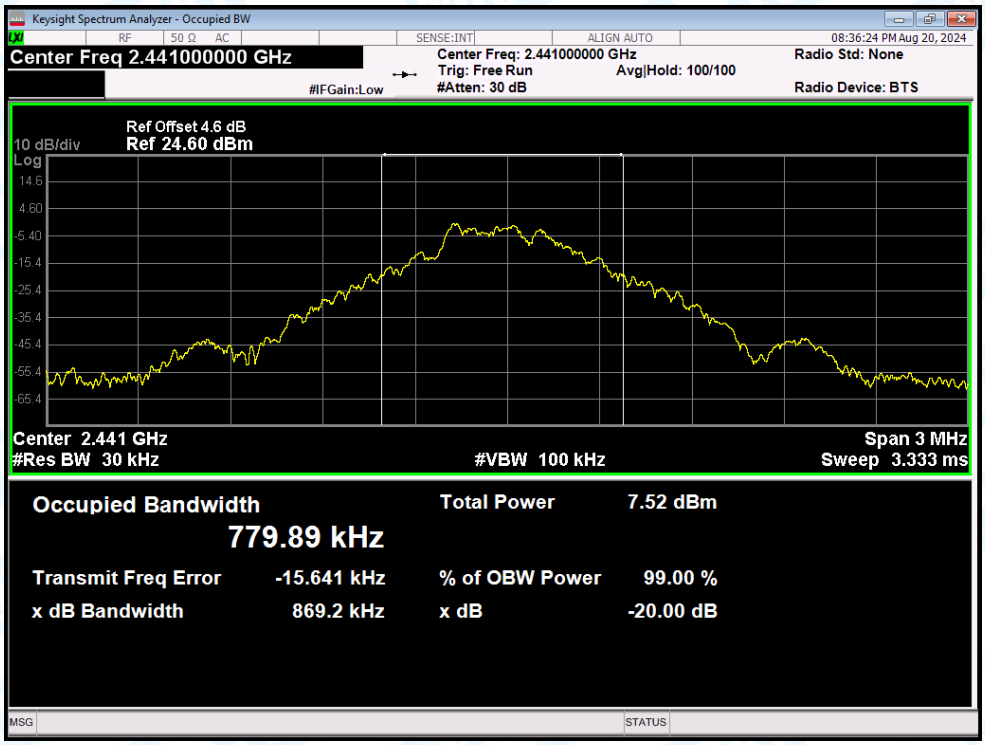
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.791
NVNT	1-DH1	2441	Ant1	0.78
NVNT	1-DH1	2480	Ant1	0.799
NVNT	2-DH1	2402	Ant1	1.169
NVNT	2-DH1	2441	Ant1	1.161
NVNT	2-DH1	2480	Ant1	1.17
NVNT	3-DH1	2402	Ant1	1.139
NVNT	3-DH1	2441	Ant1	1.161
NVNT	3-DH1	2480	Ant1	1.148

Test Graphs

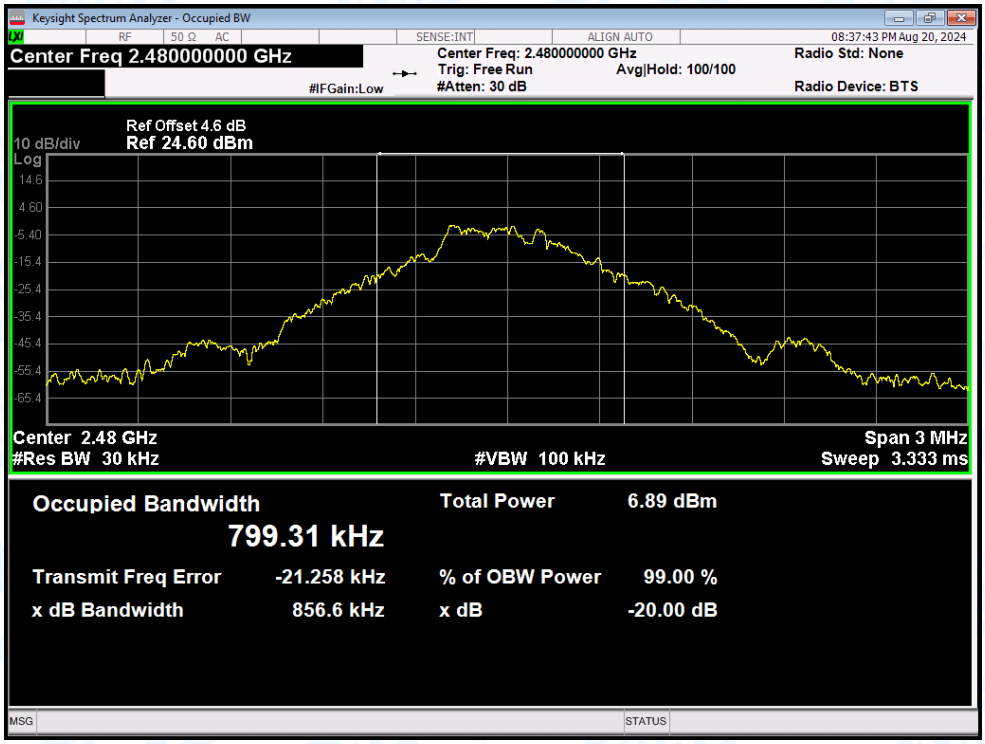
OBW NVNT 1-DH1 2402MHz Ant1



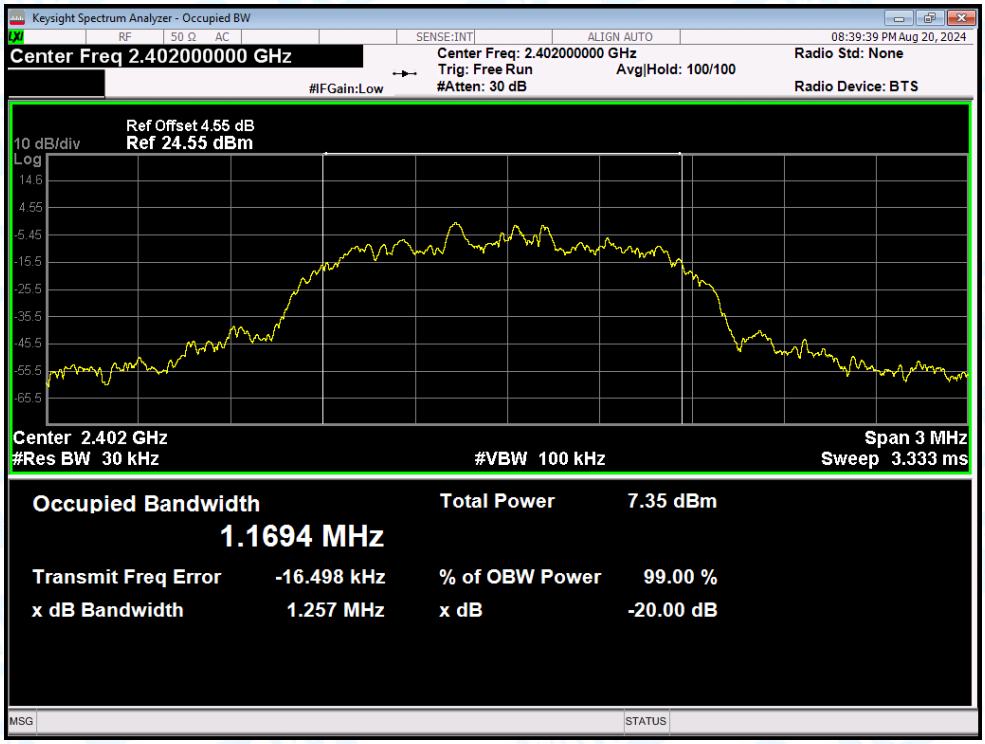
OBW NVNT 1-DH1 2441MHz Ant1



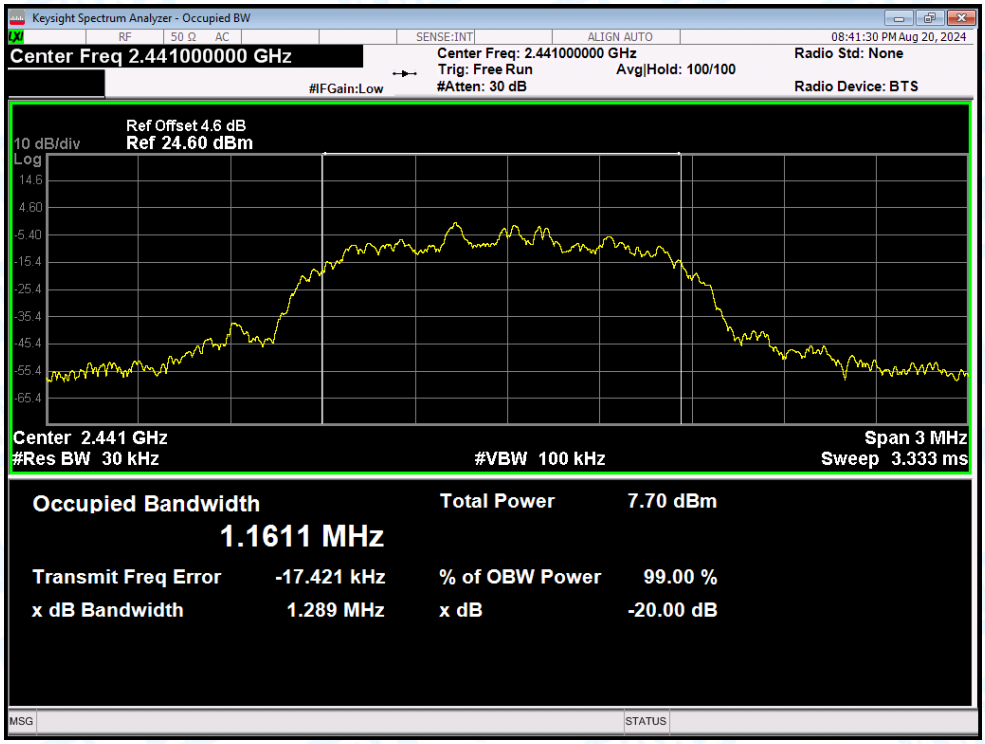
OBW NVNT 1-DH1 2480MHz Ant1



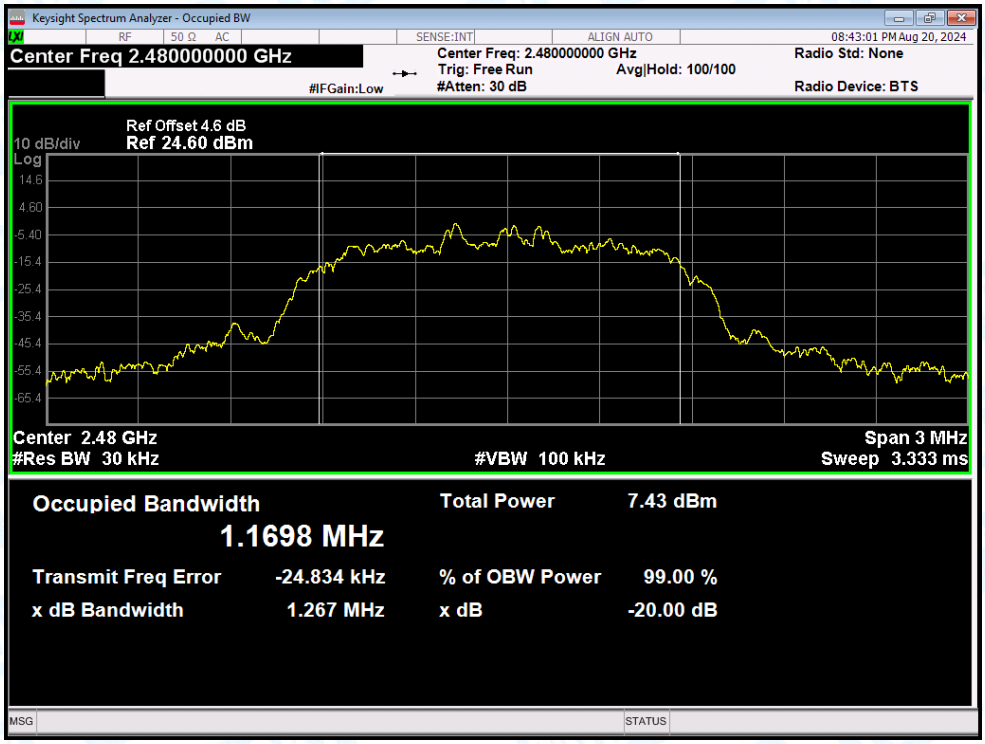
OBW NVNT 2-DH1 2402MHz Ant1



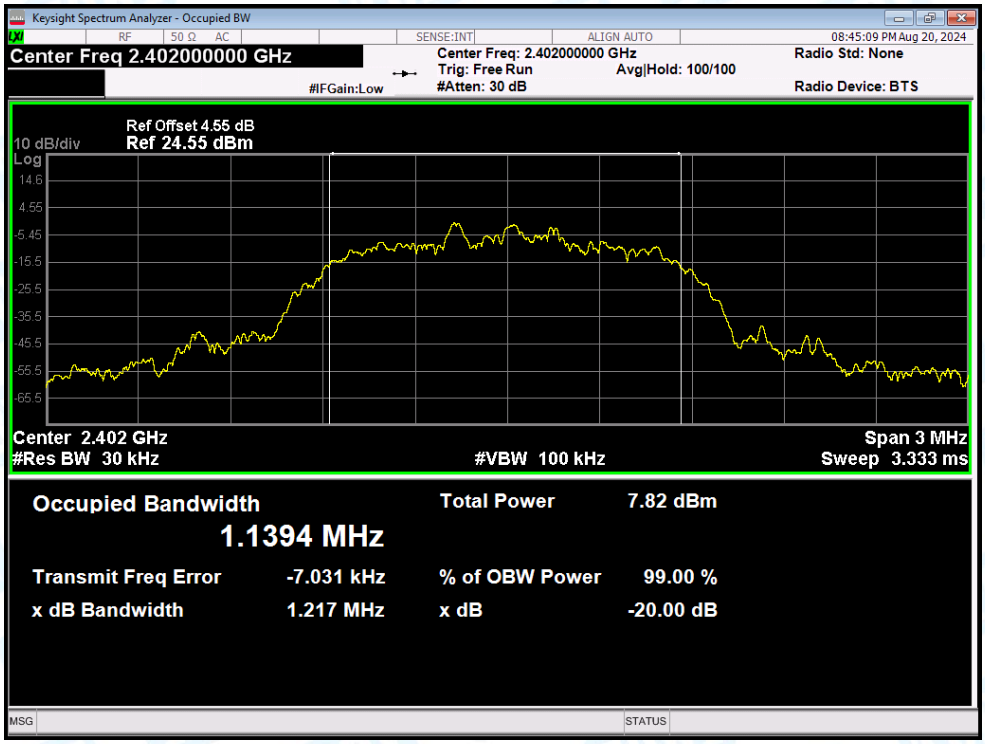
OBW NVNT 2-DH1 2441MHz Ant1



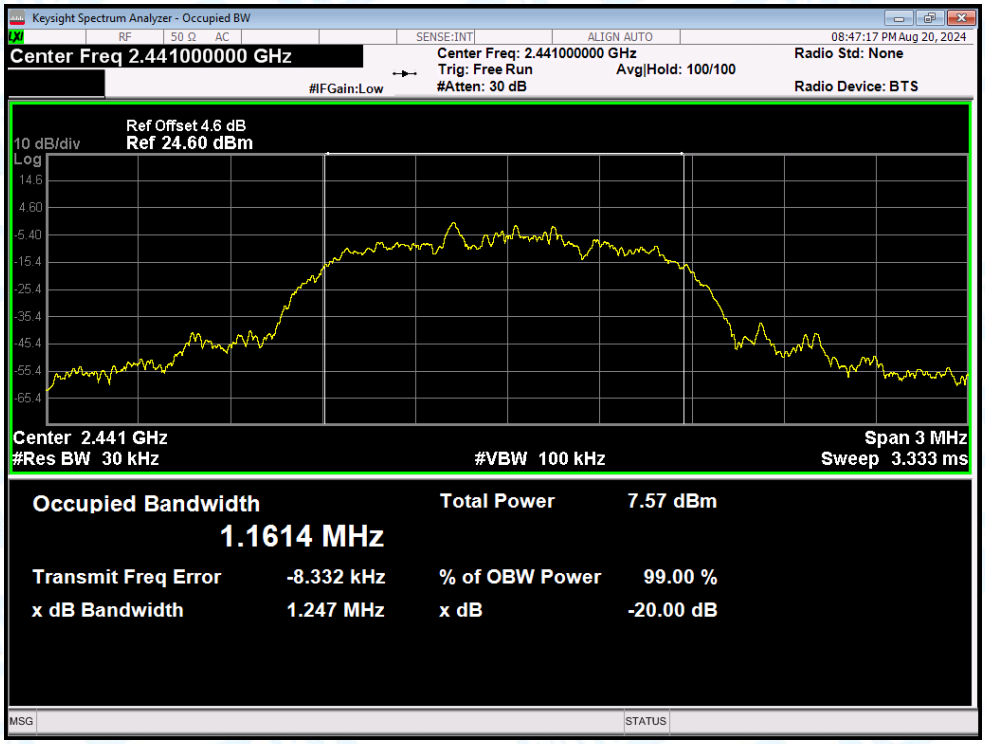
OBW NVNT 2-DH1 2480MHz Ant1



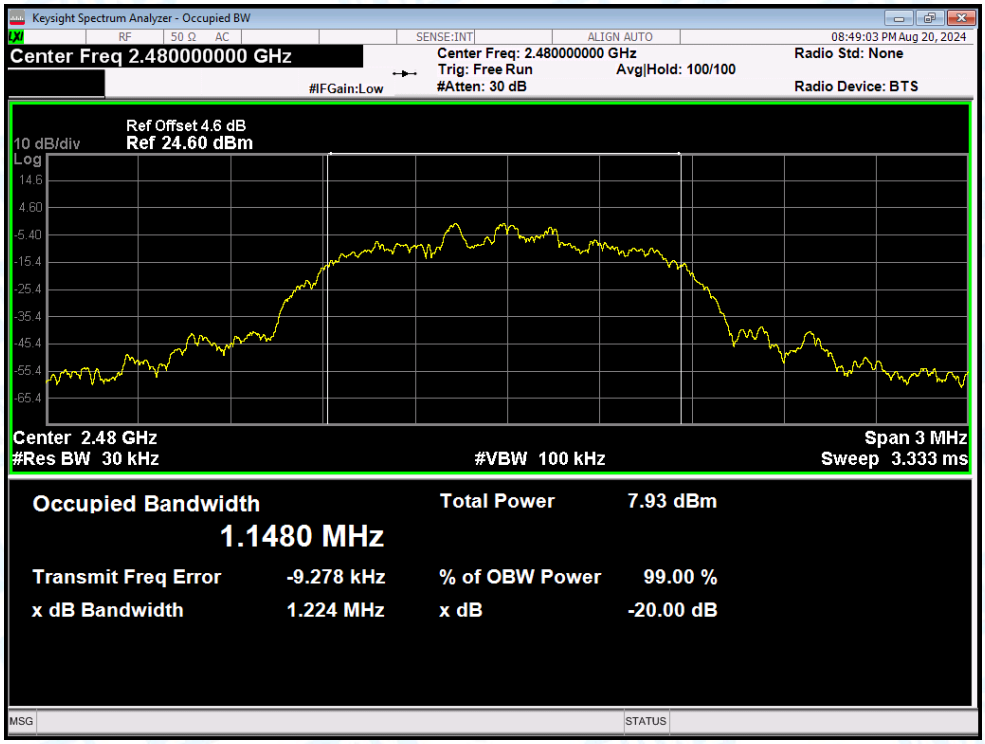
OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



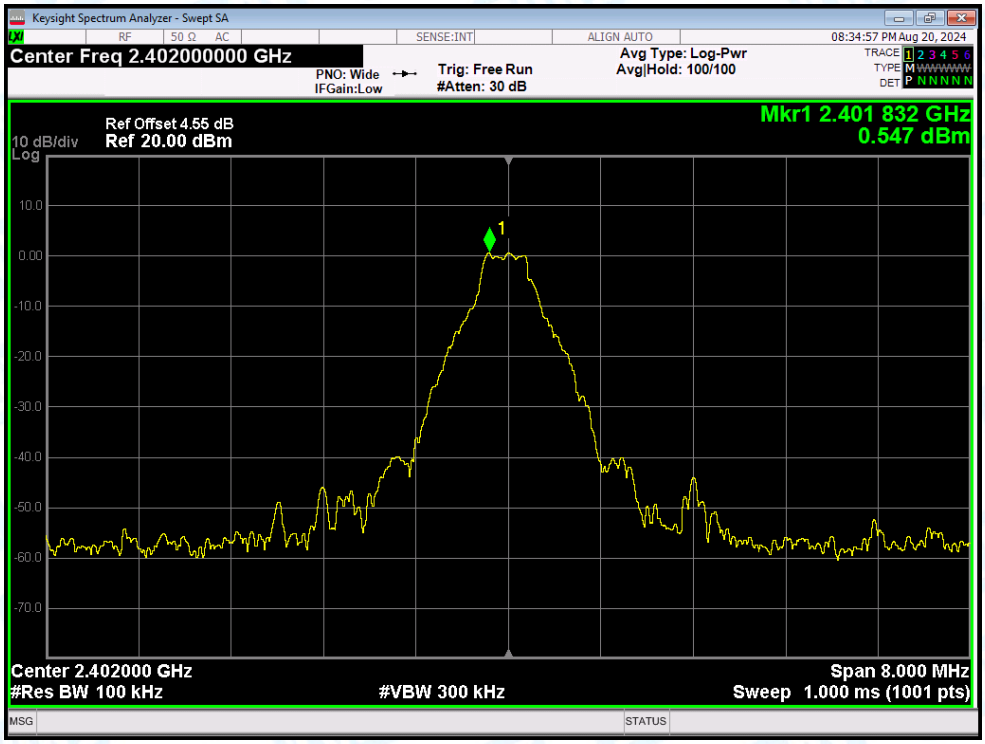
OBW NVNT 3-DH1 2480MHz Ant1



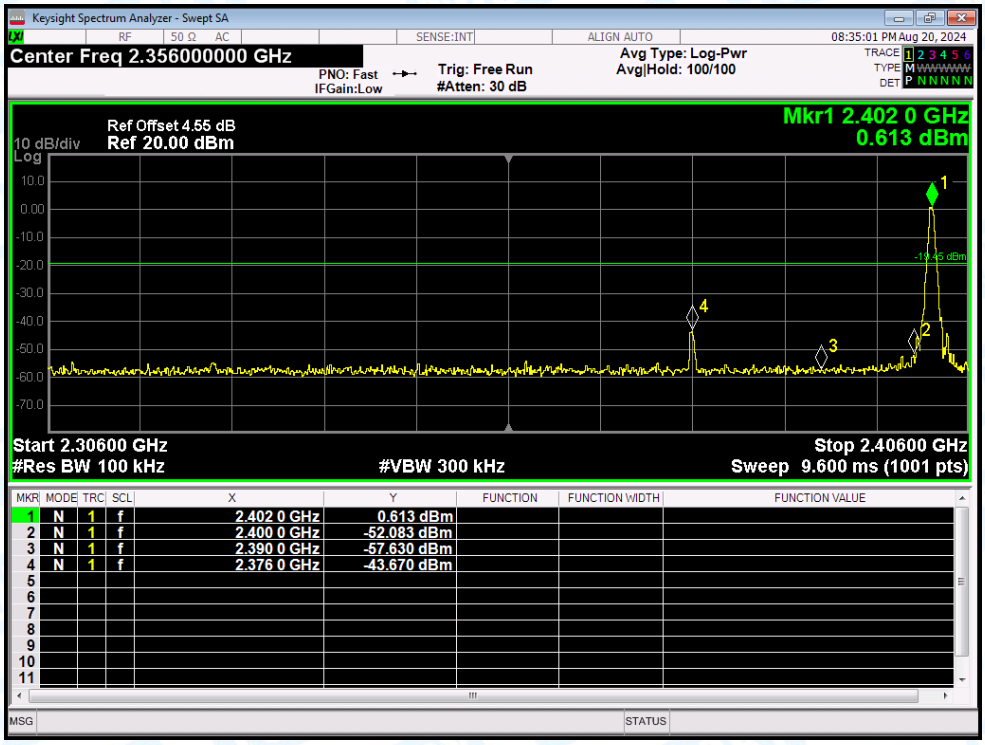
5. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-44.22	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-54.05	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-44.48	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-54.32	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-44.26	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-54.88	-20	Pass

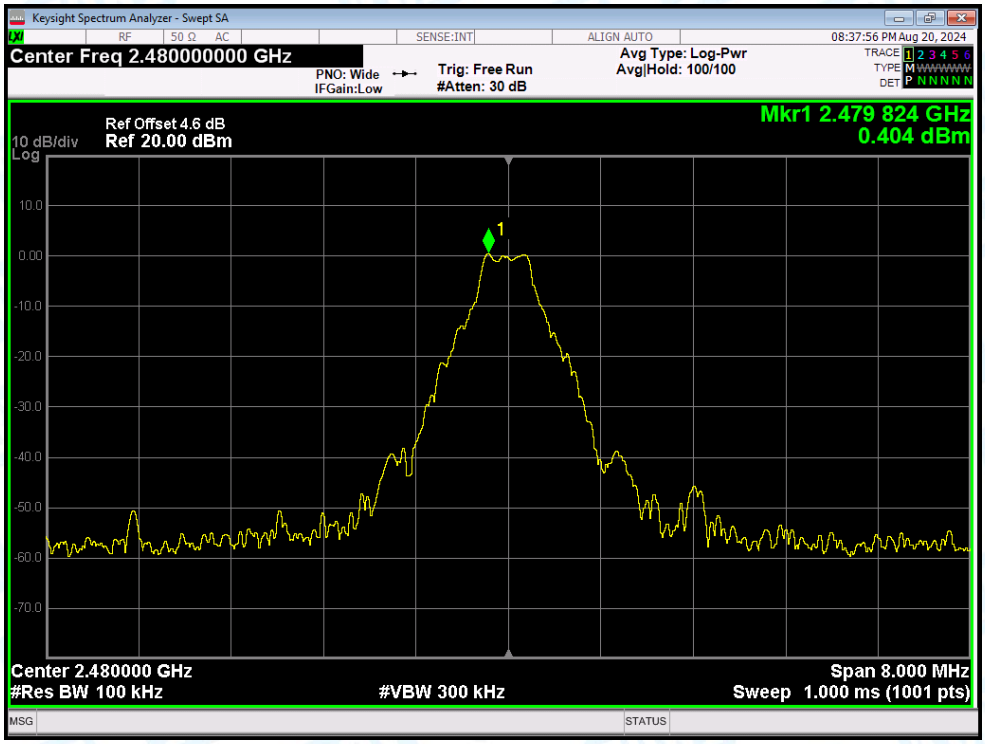
Test Graphs
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



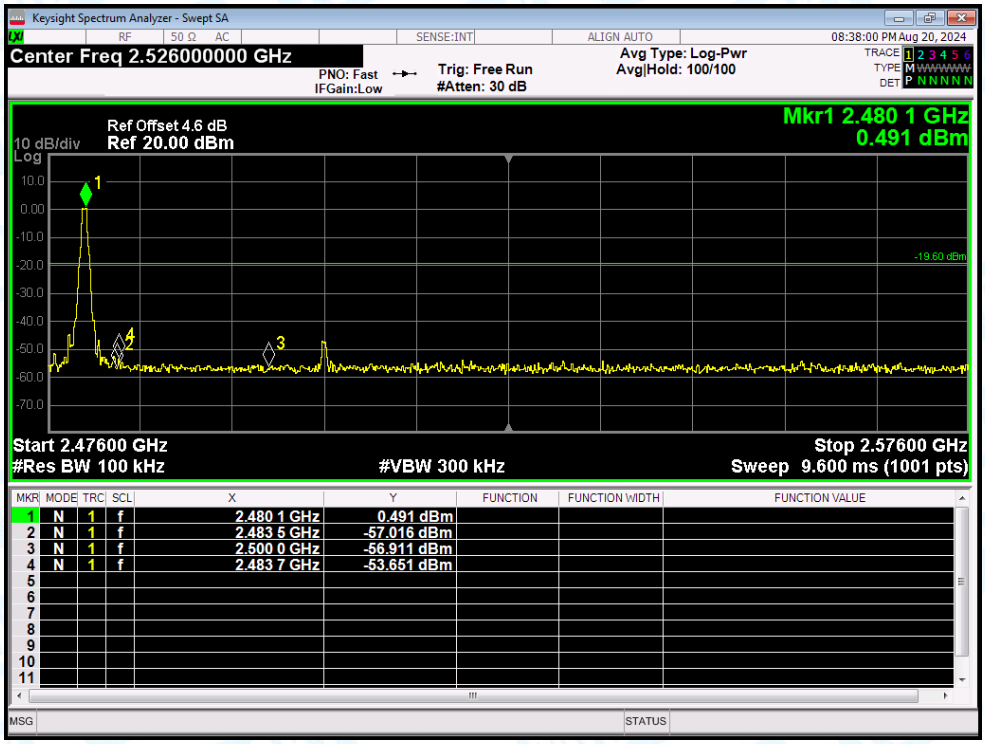
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



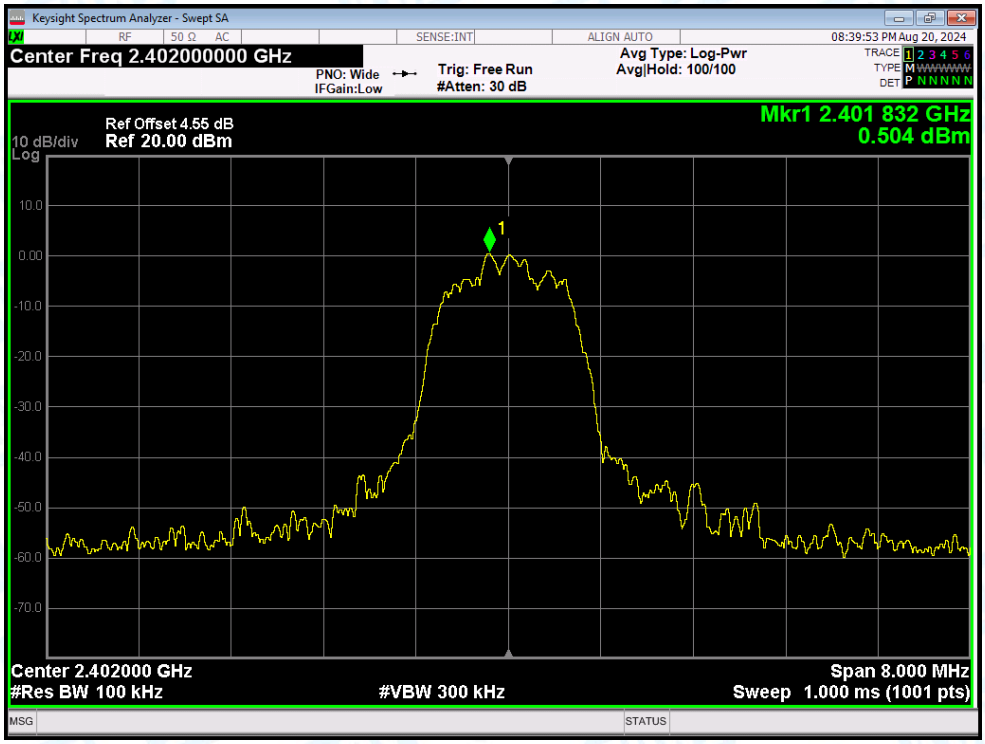
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



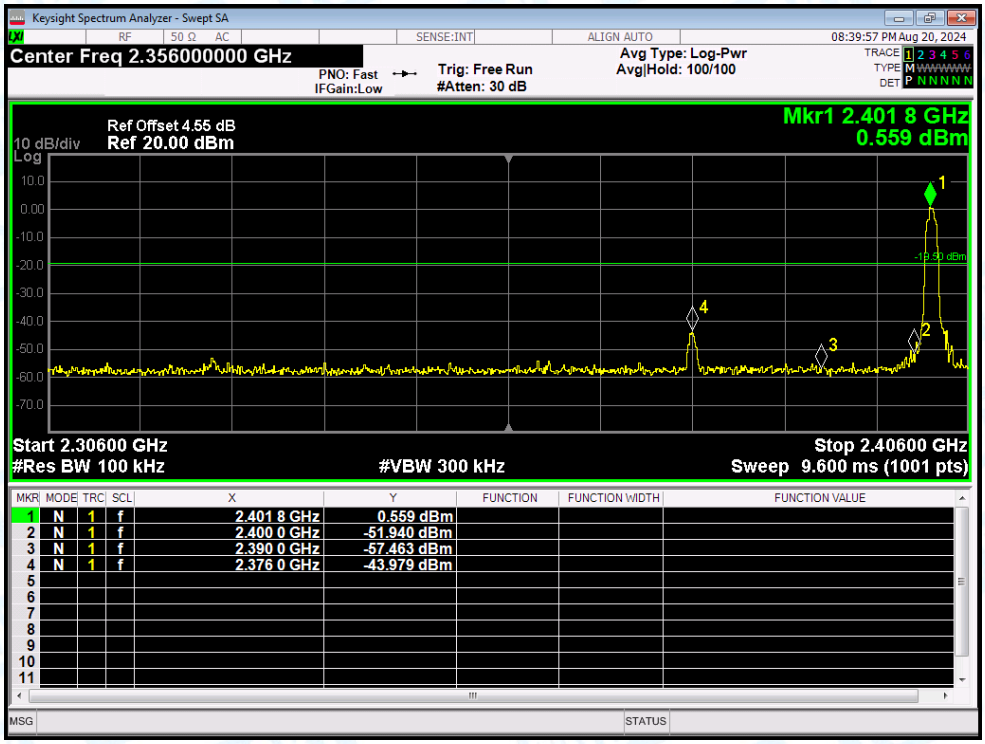
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



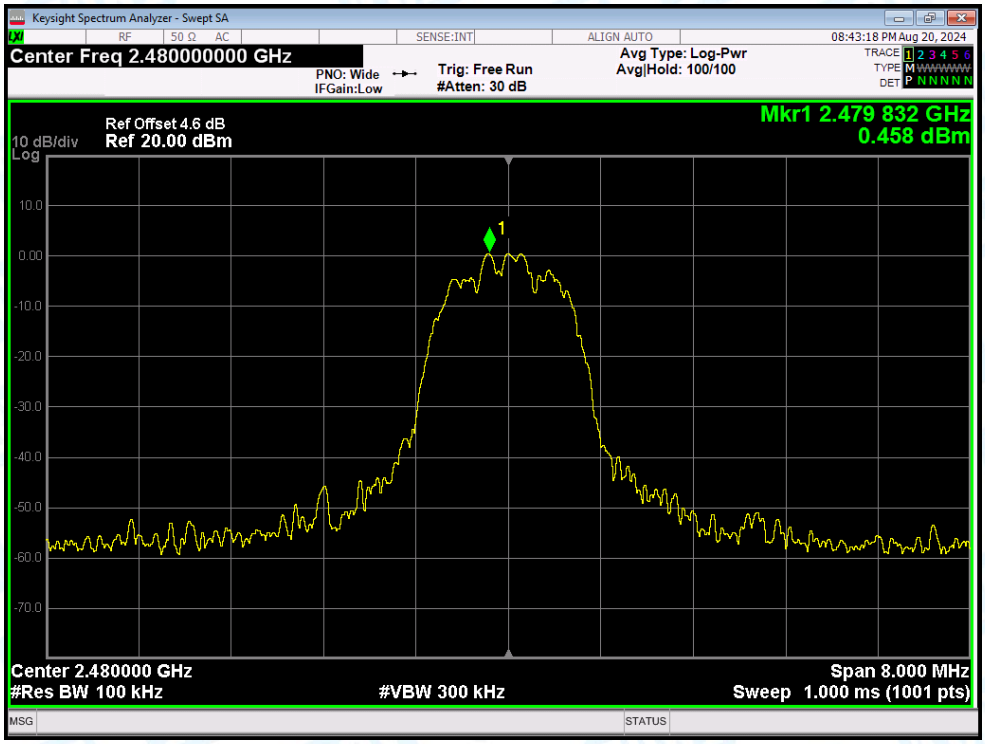
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



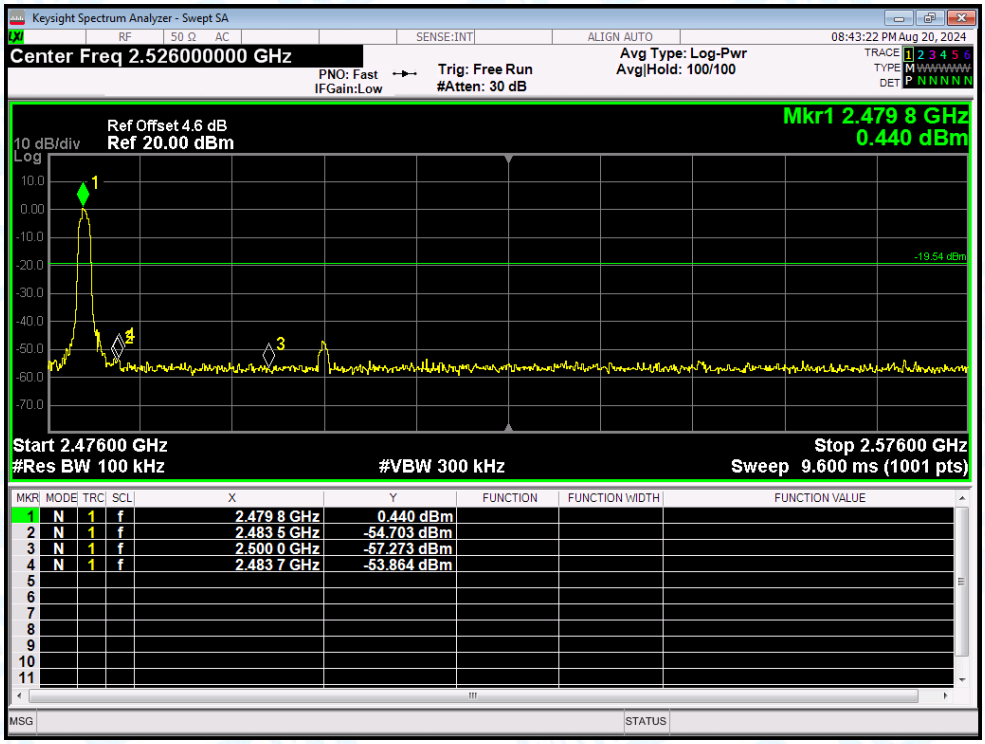
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



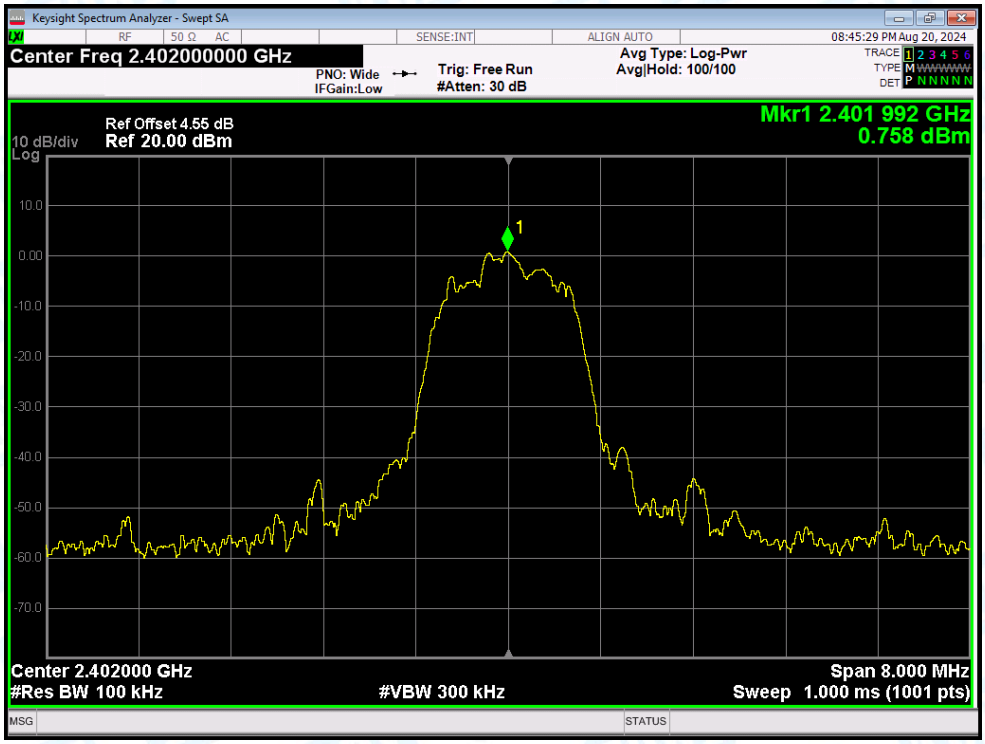
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



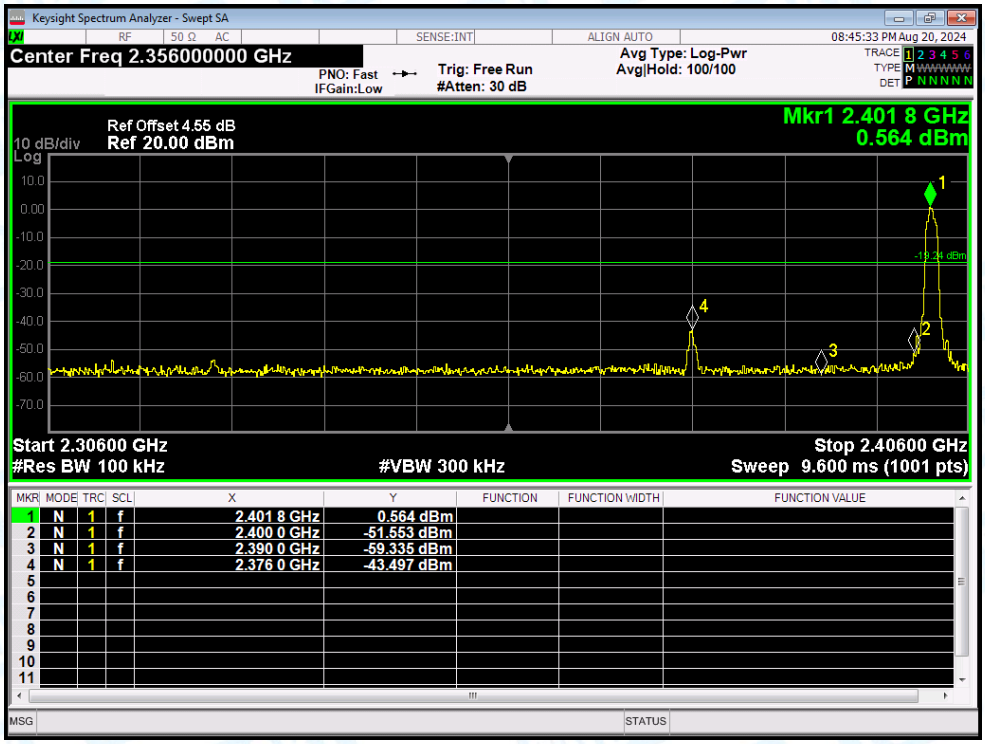
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



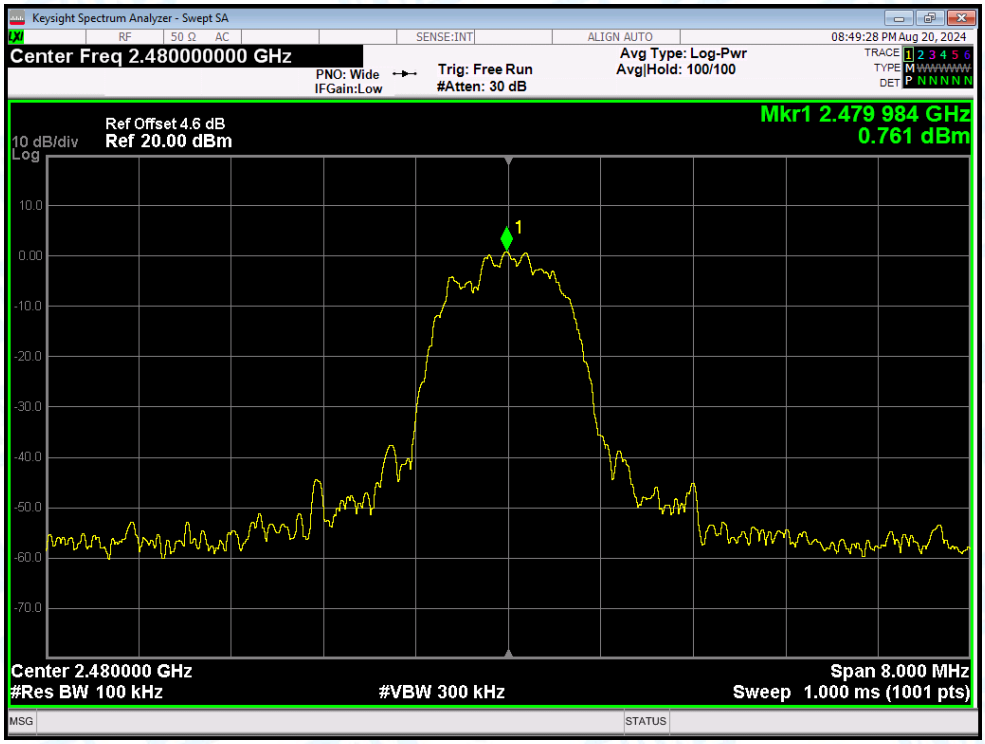
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



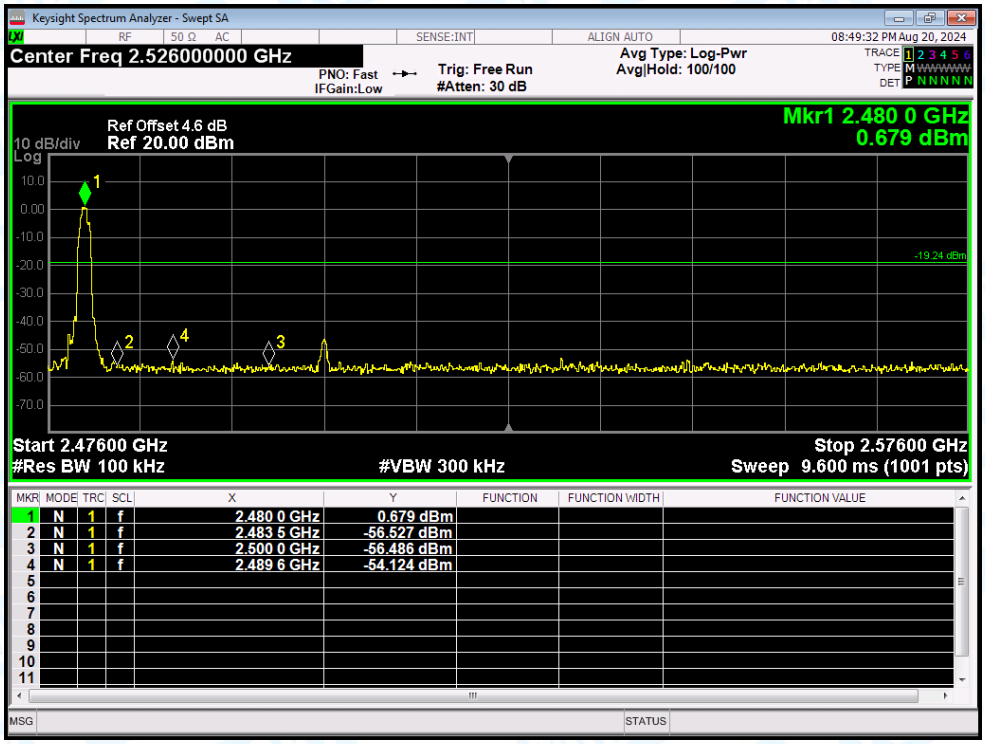
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission

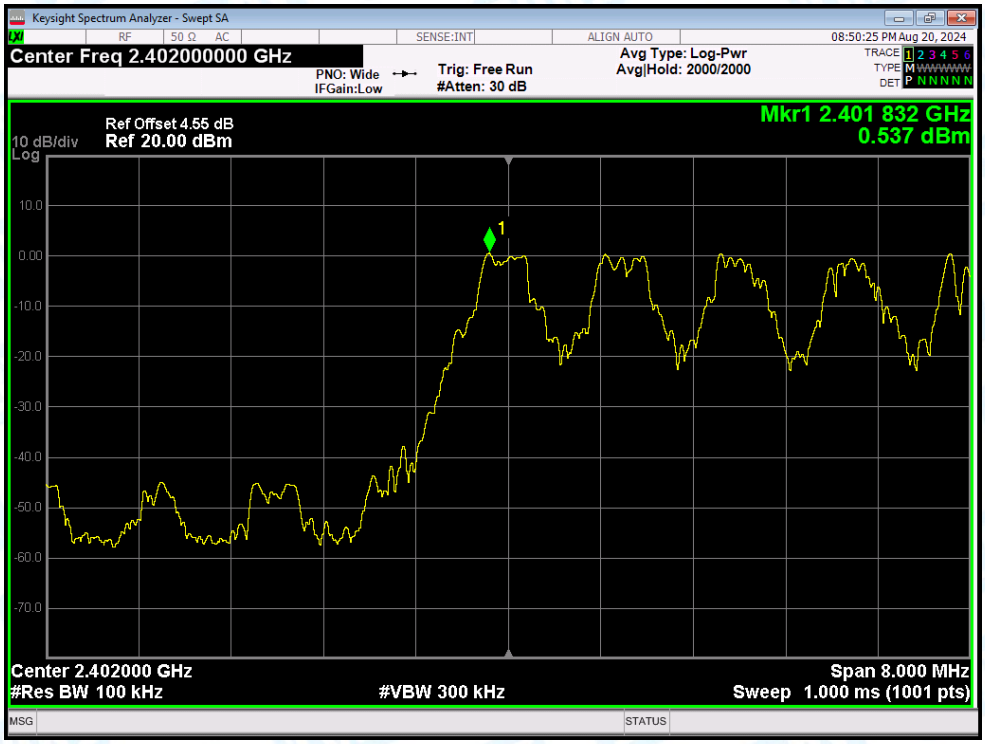


6. Band Edge(Hopping)

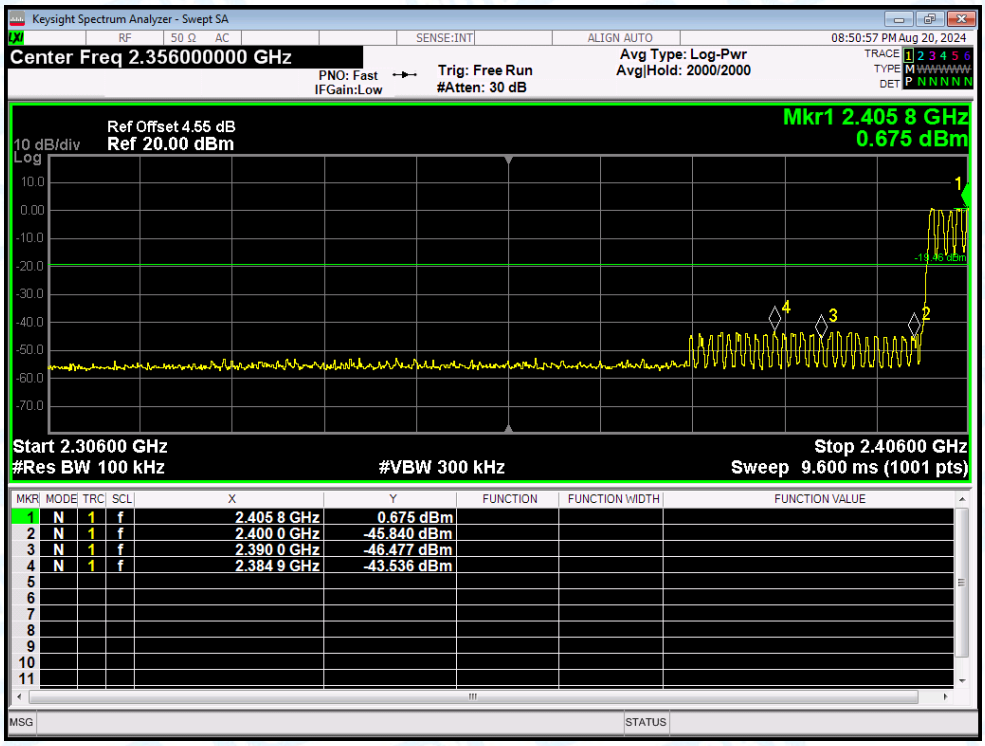
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-44.08	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-46.02	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-43.91	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-46.62	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-43.85	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-46.57	-20	Pass

Test Graphs

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



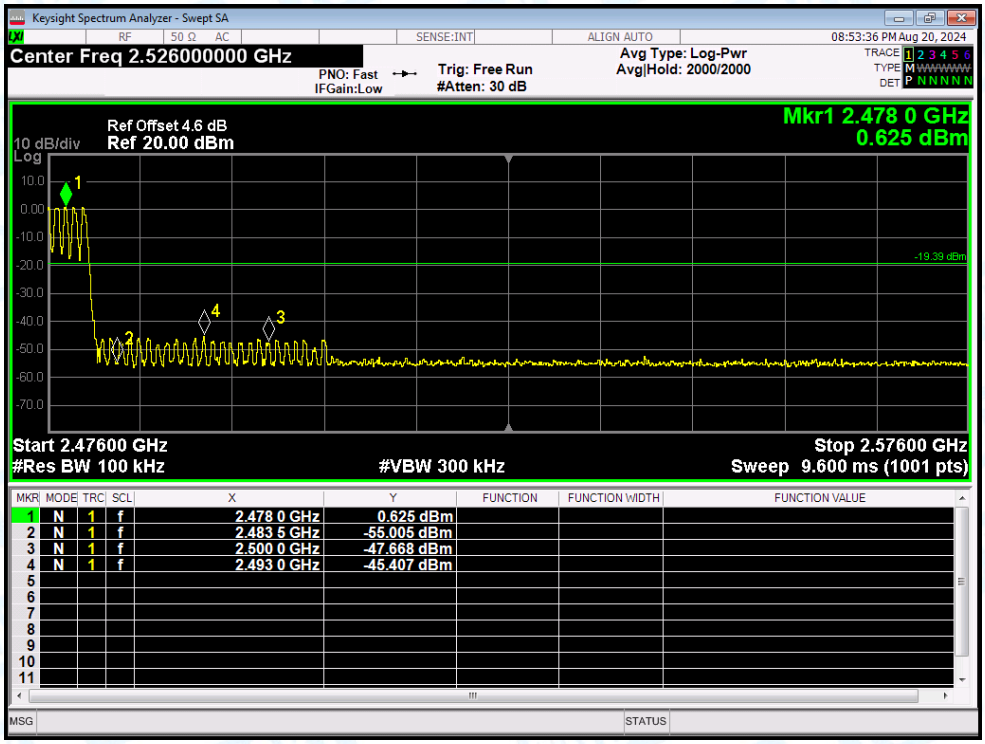
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



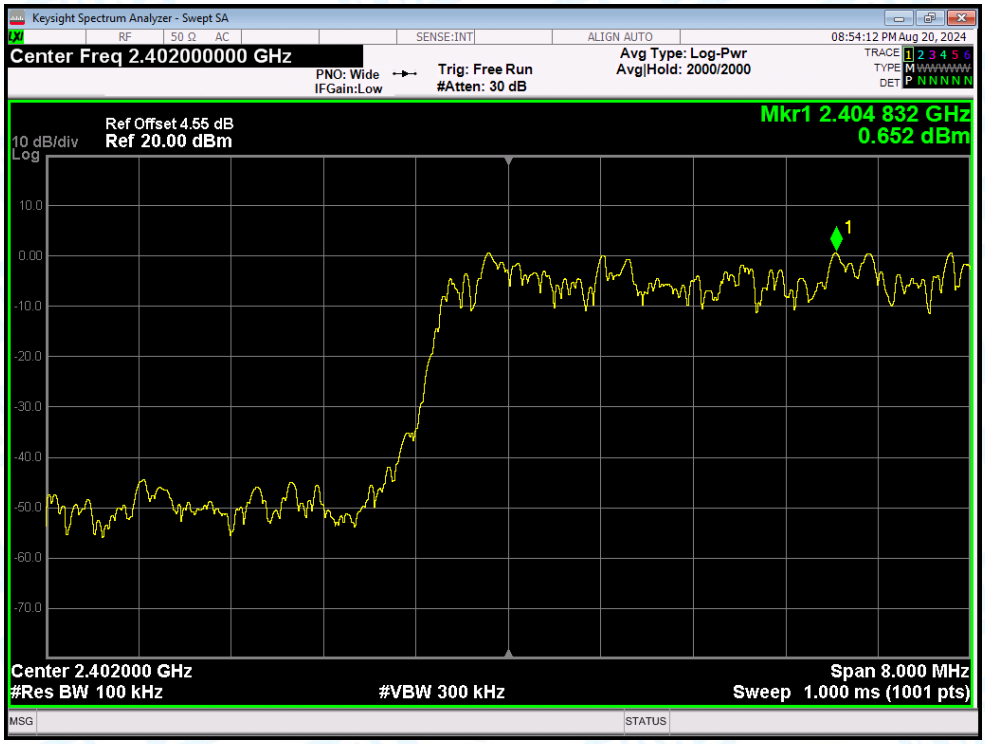
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



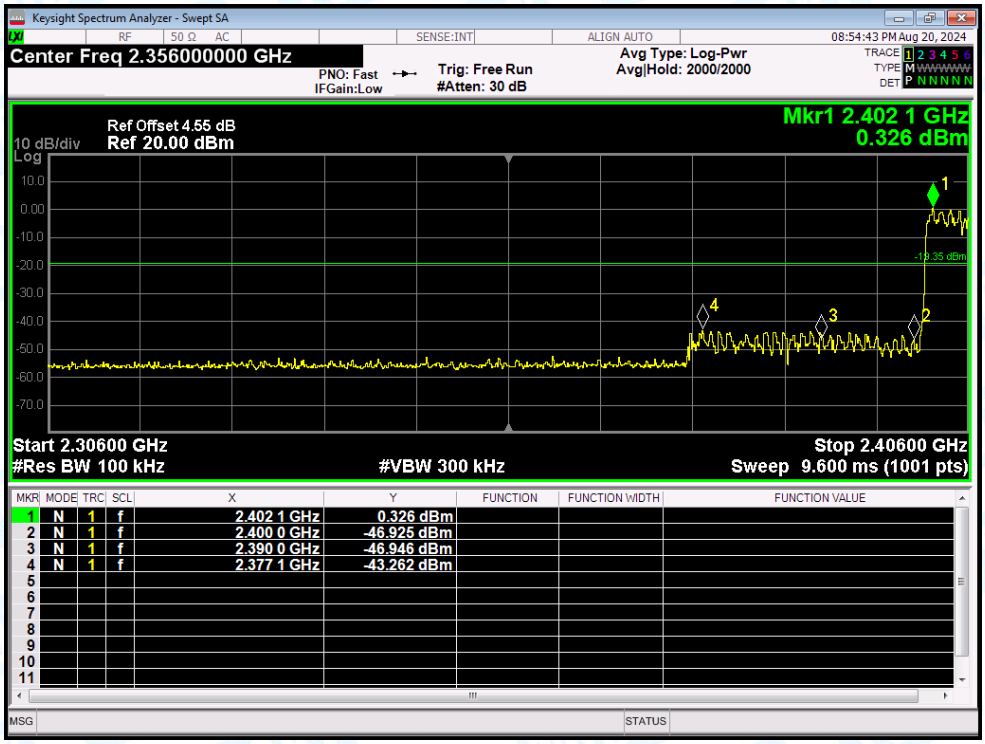
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



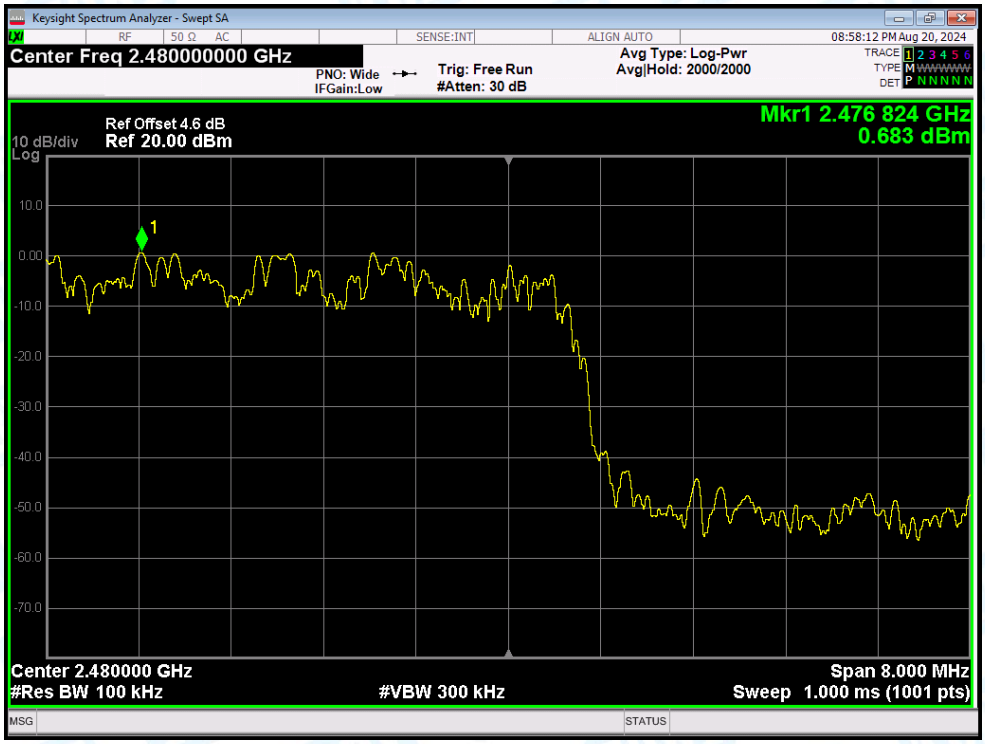
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



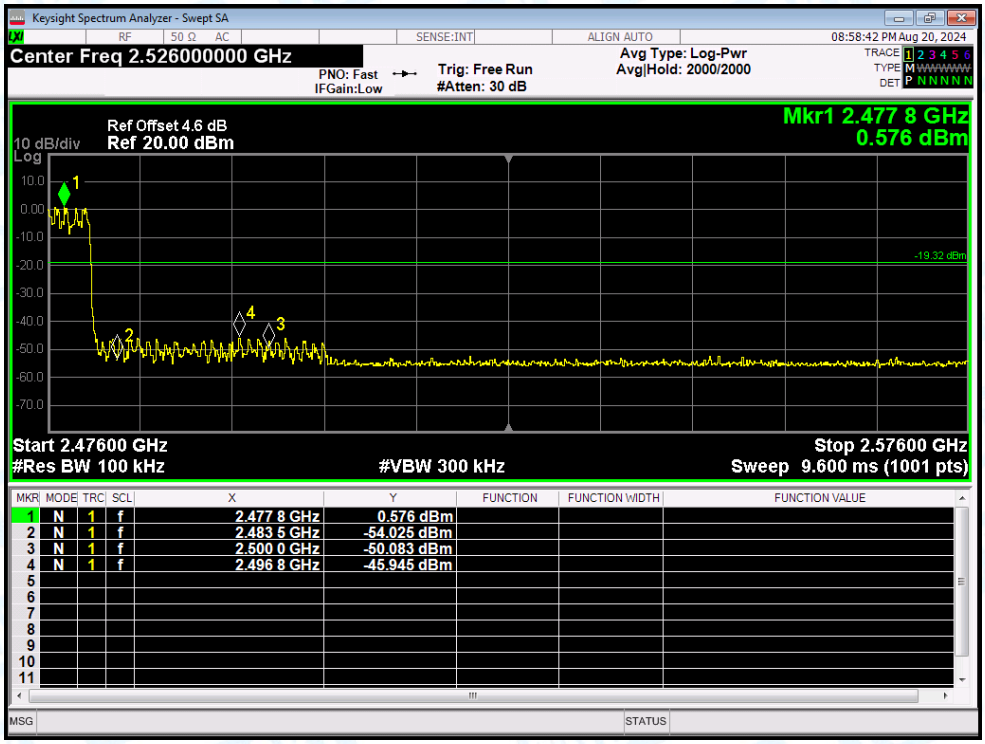
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



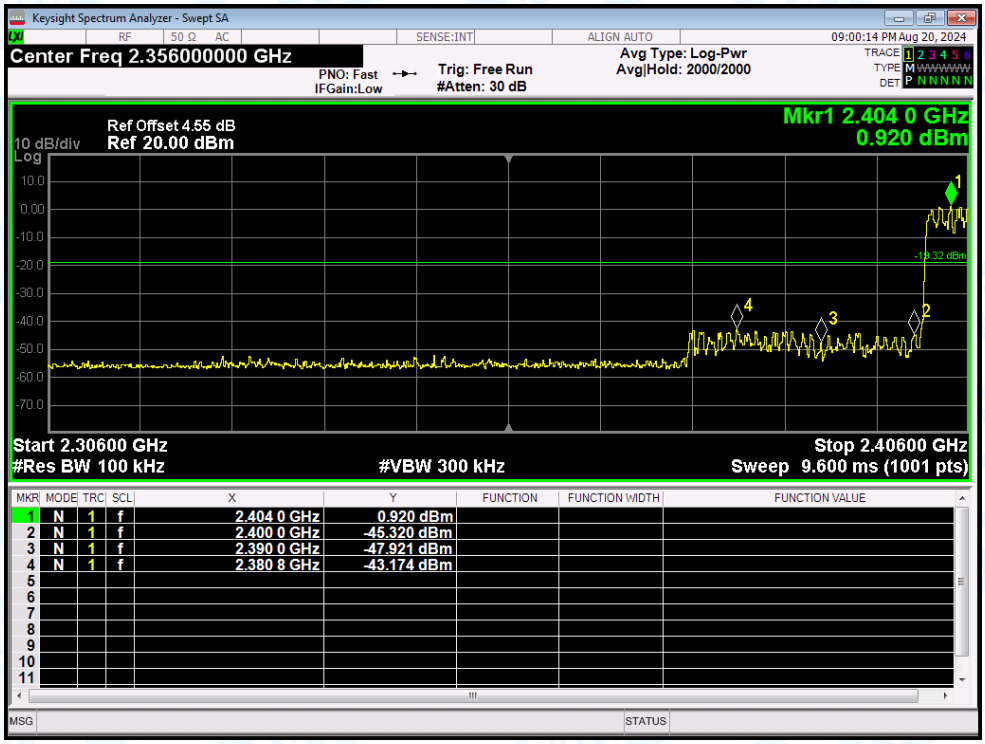
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



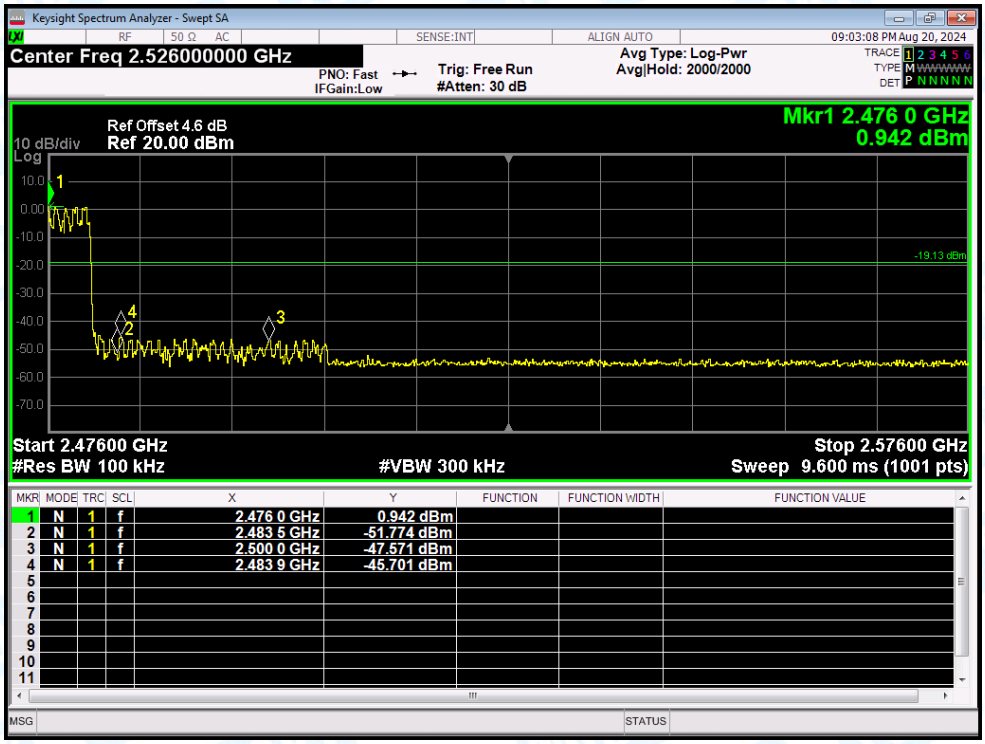
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



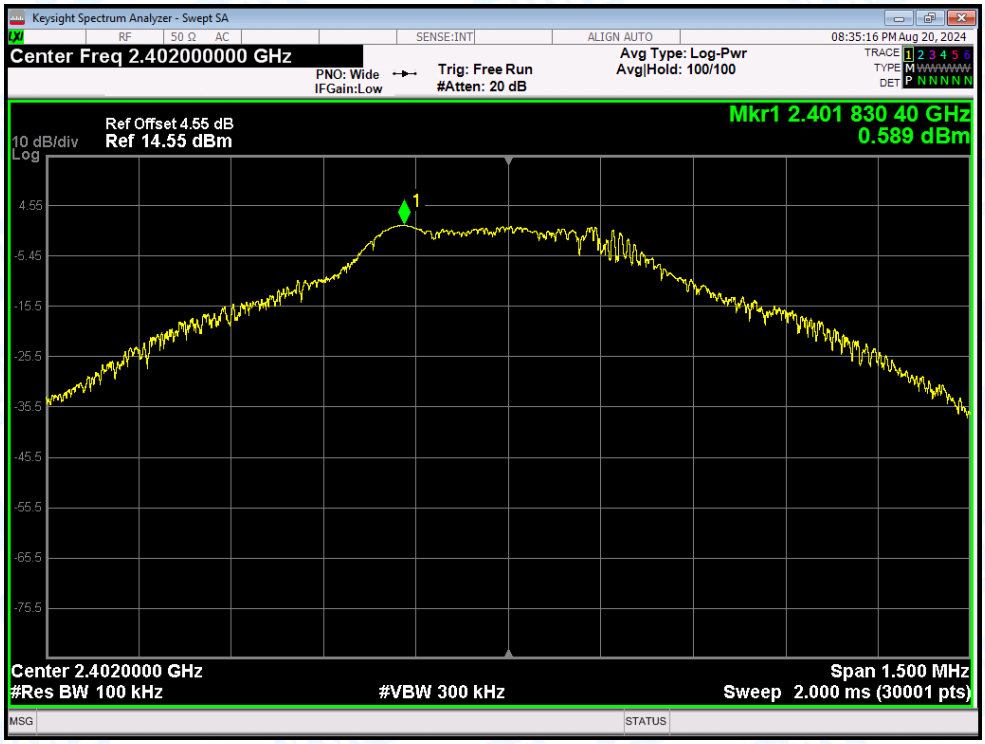
Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission



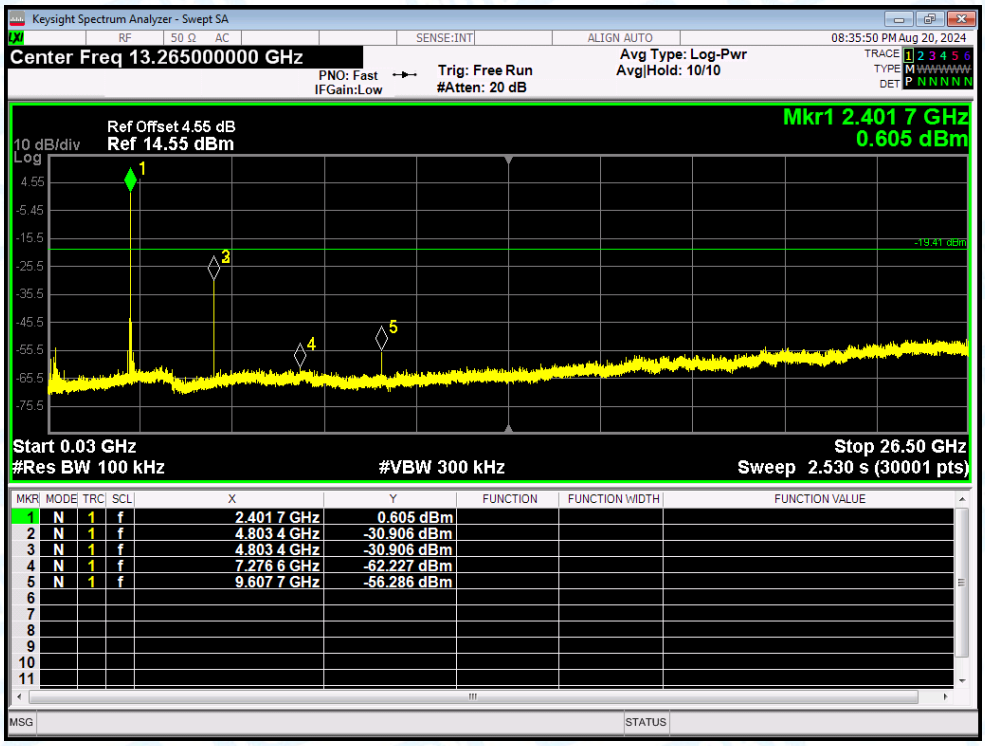
7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-31.5	-20	Pass
NVNT	1-DH1	2441	Ant1	-32.5	-20	Pass
NVNT	1-DH1	2480	Ant1	-37.31	-20	Pass
NVNT	2-DH1	2402	Ant1	-37.67	-20	Pass
NVNT	2-DH1	2441	Ant1	-32.42	-20	Pass
NVNT	2-DH1	2480	Ant1	-37.85	-20	Pass
NVNT	3-DH1	2402	Ant1	-37.02	-20	Pass
NVNT	3-DH1	2441	Ant1	-36.2	-20	Pass
NVNT	3-DH1	2480	Ant1	-35.25	-20	Pass

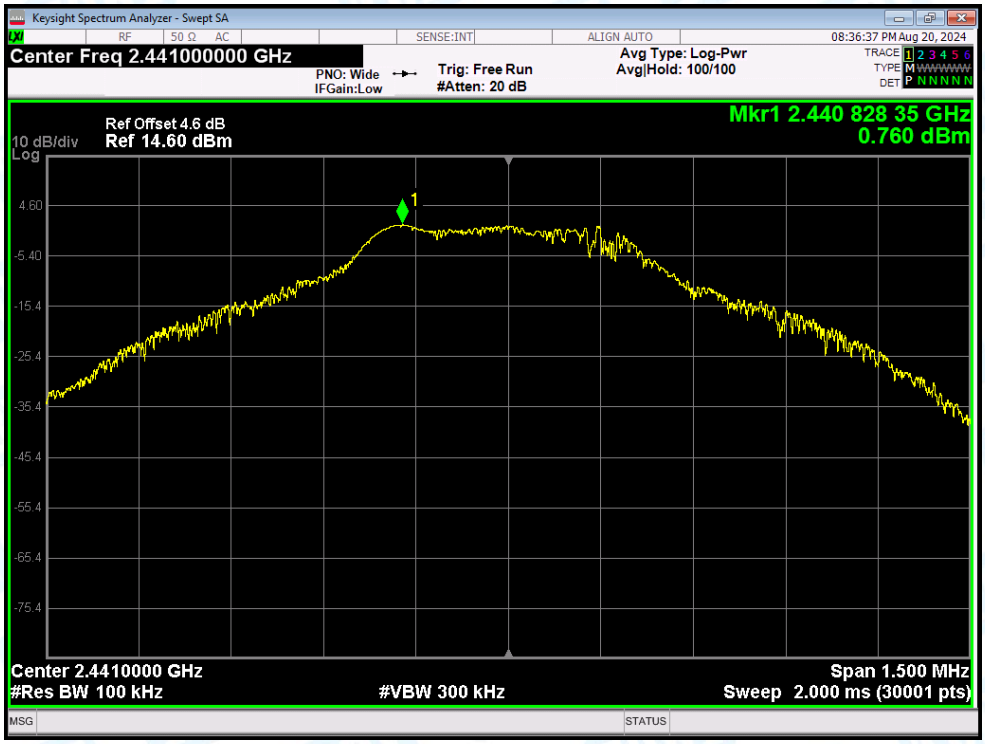
Test Graphs
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



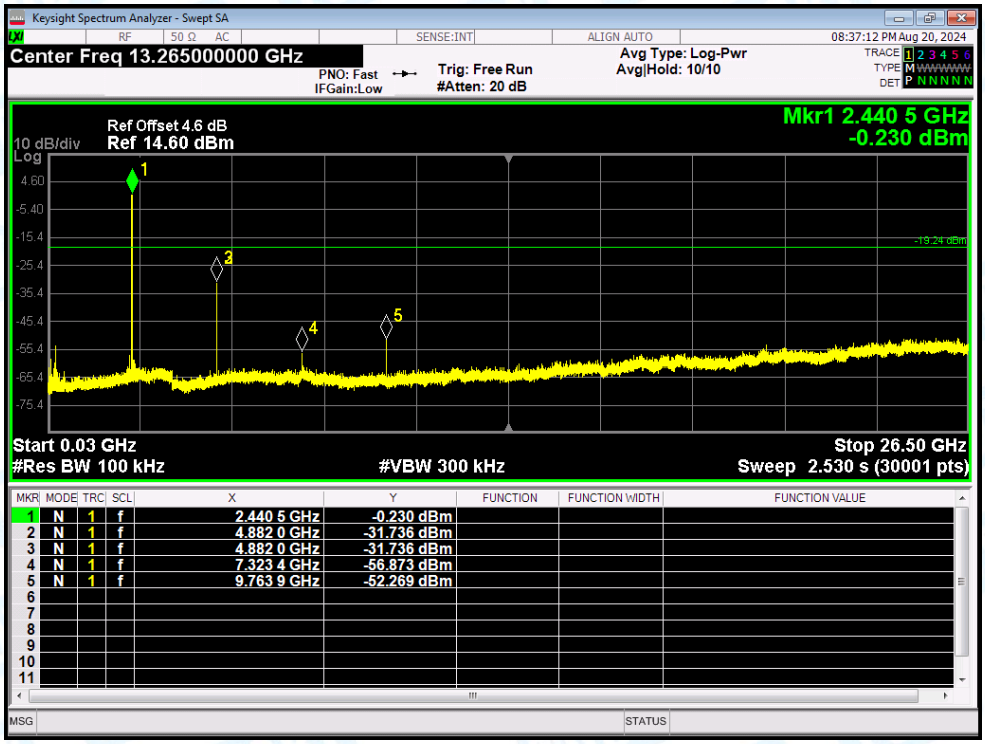
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



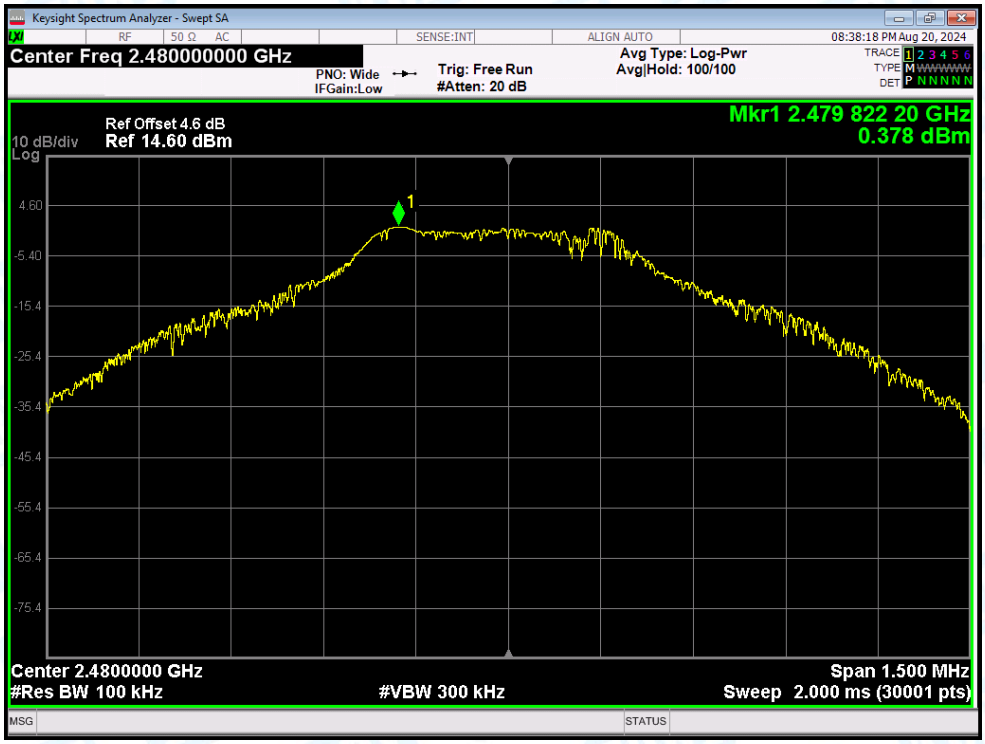
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



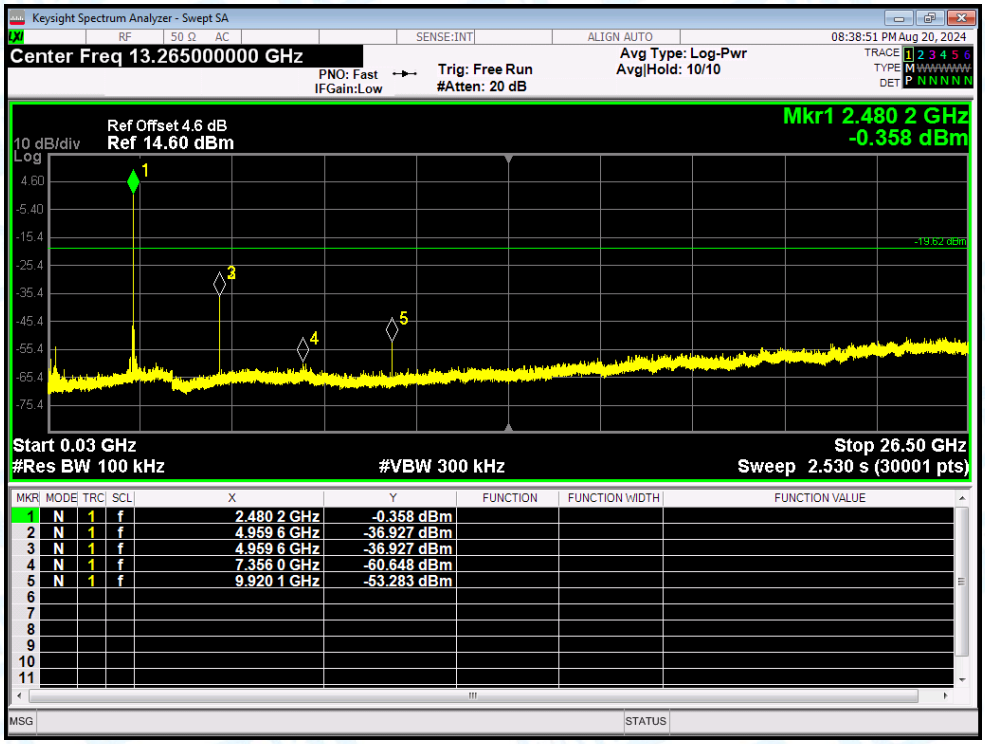
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



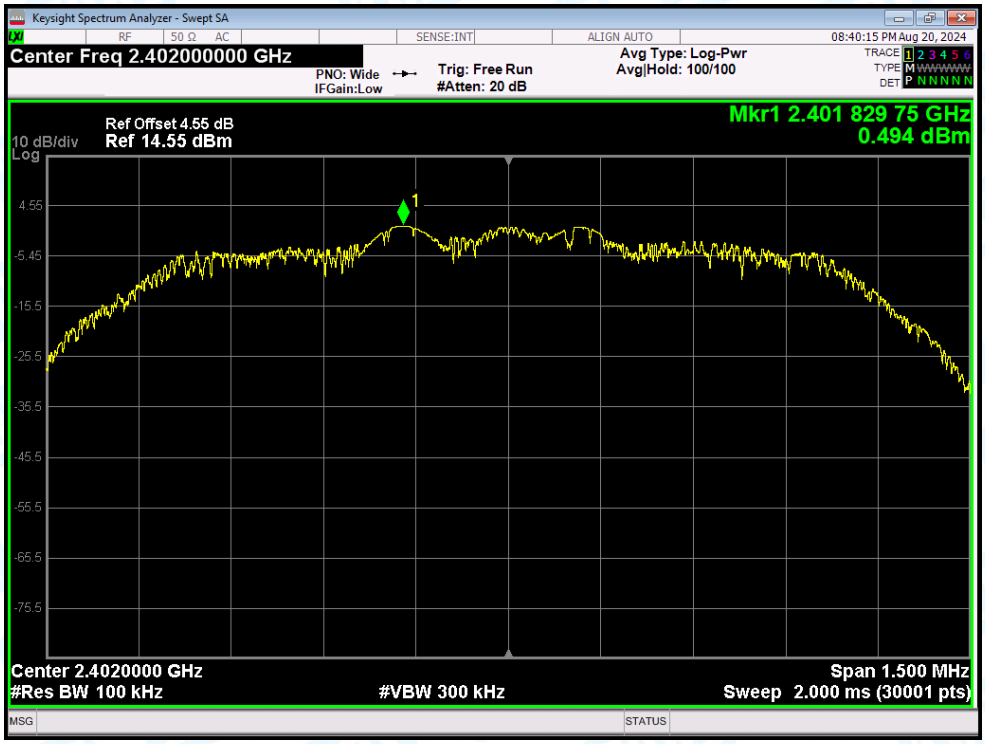
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



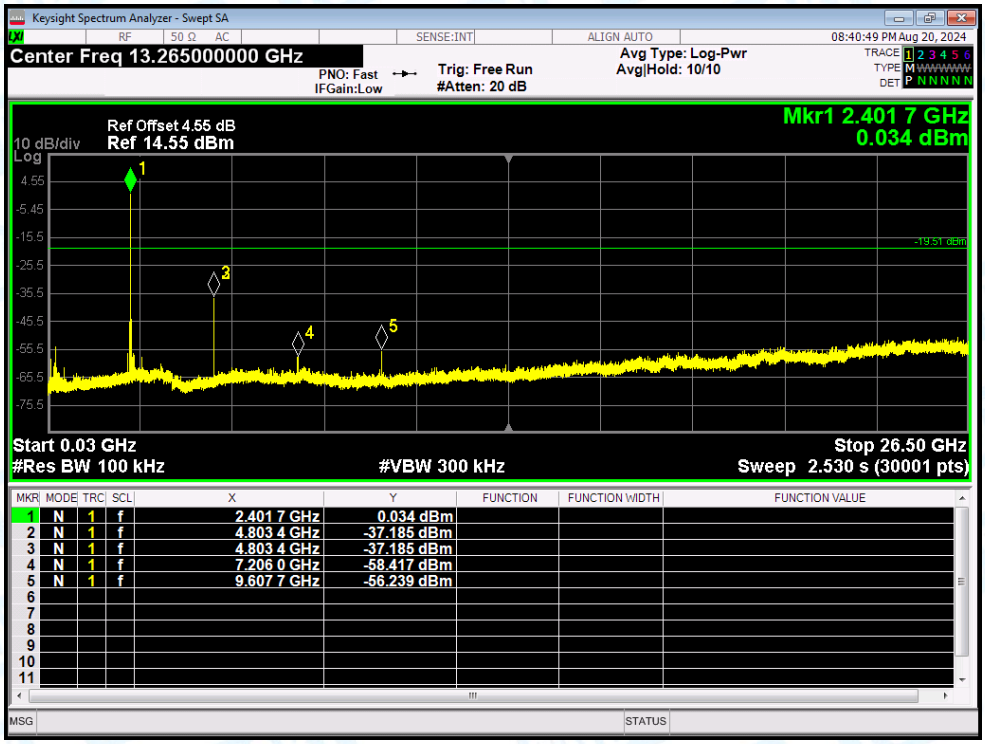
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



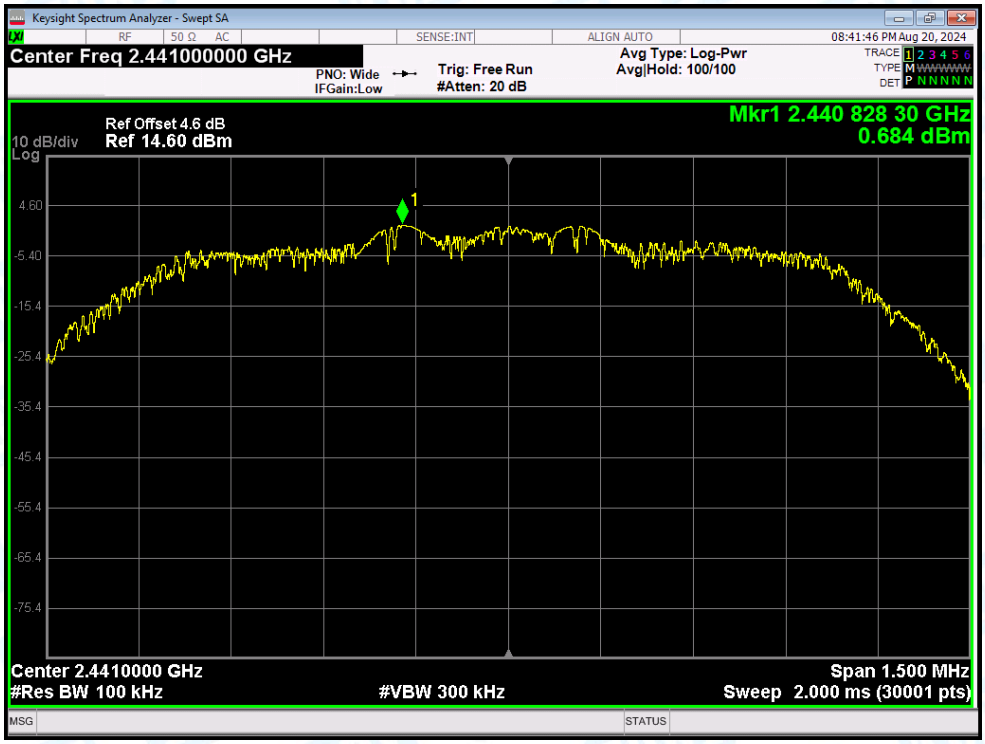
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



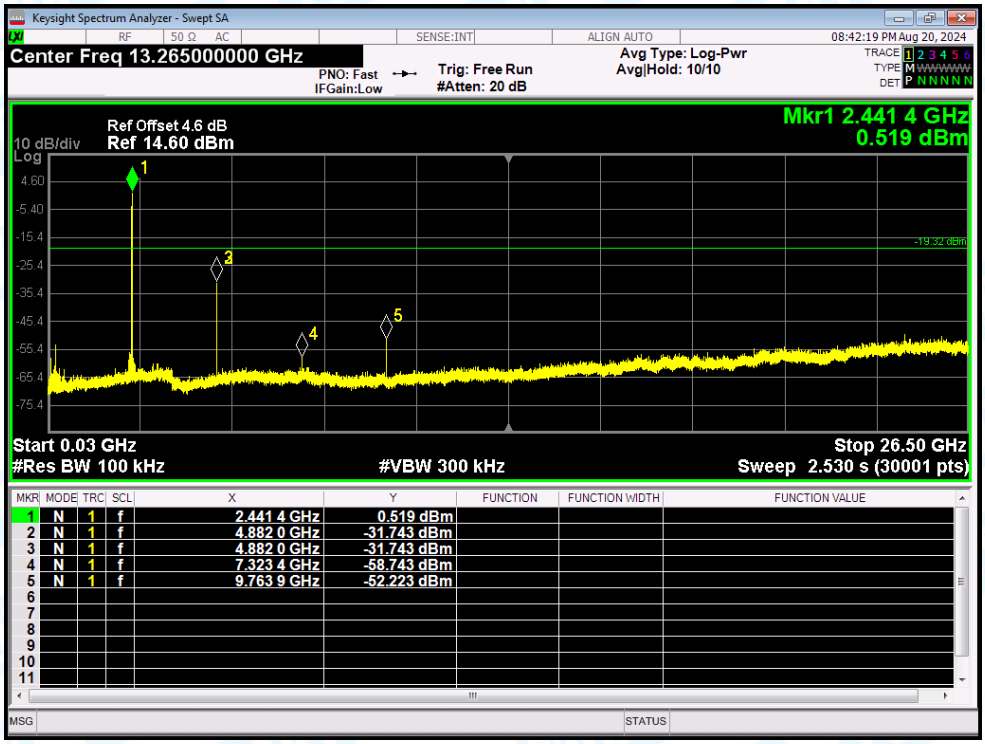
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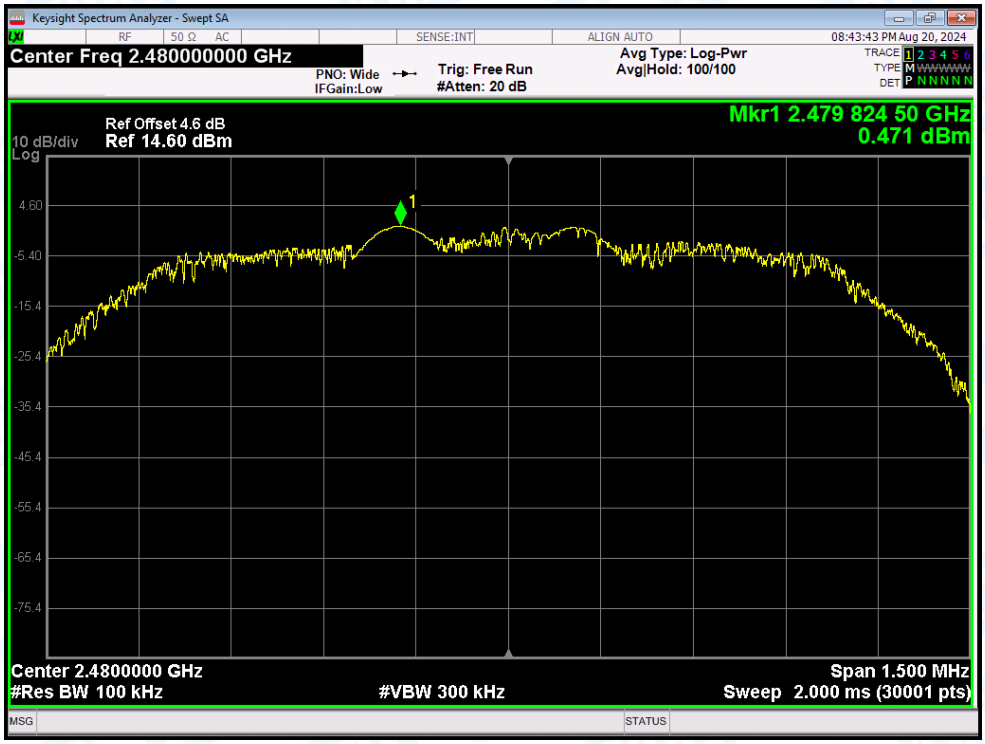
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



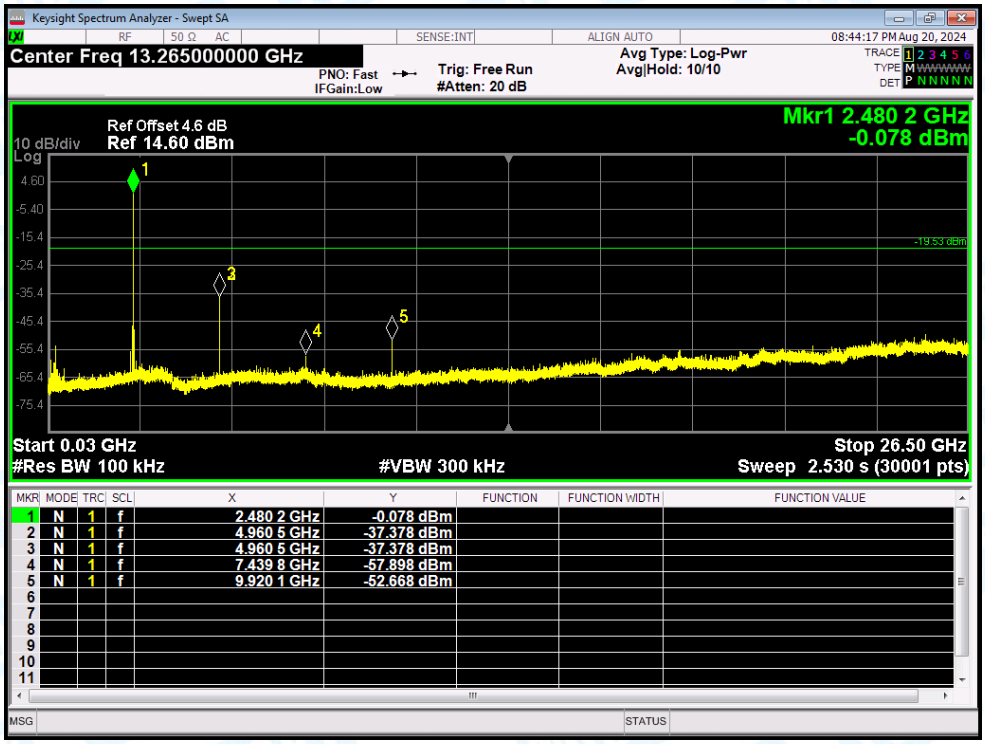
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



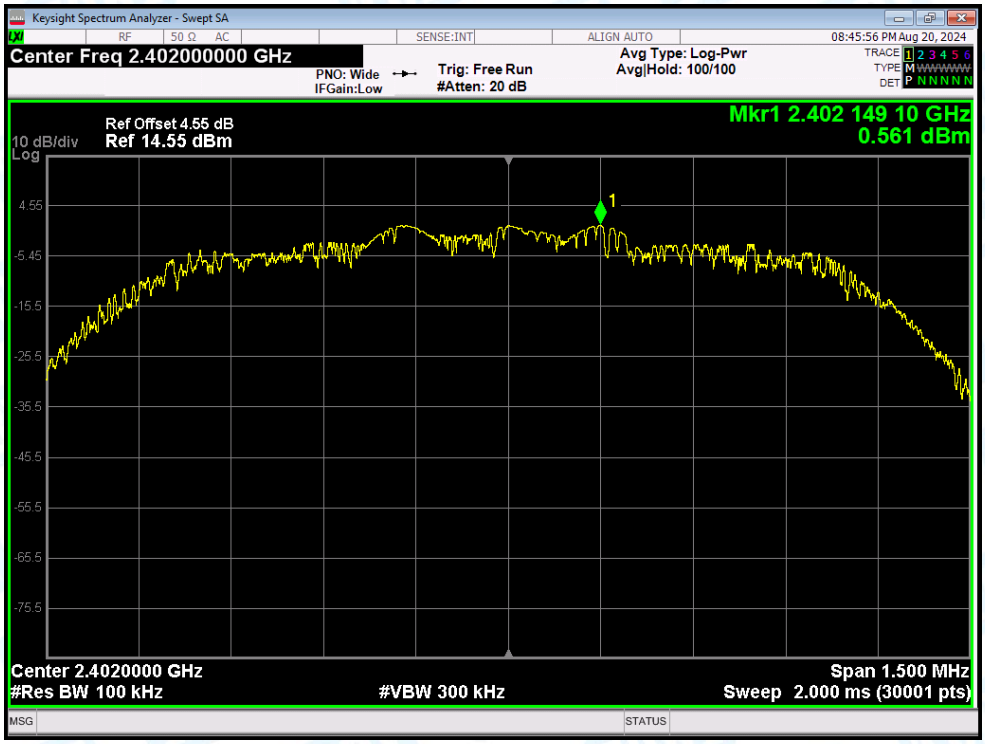
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



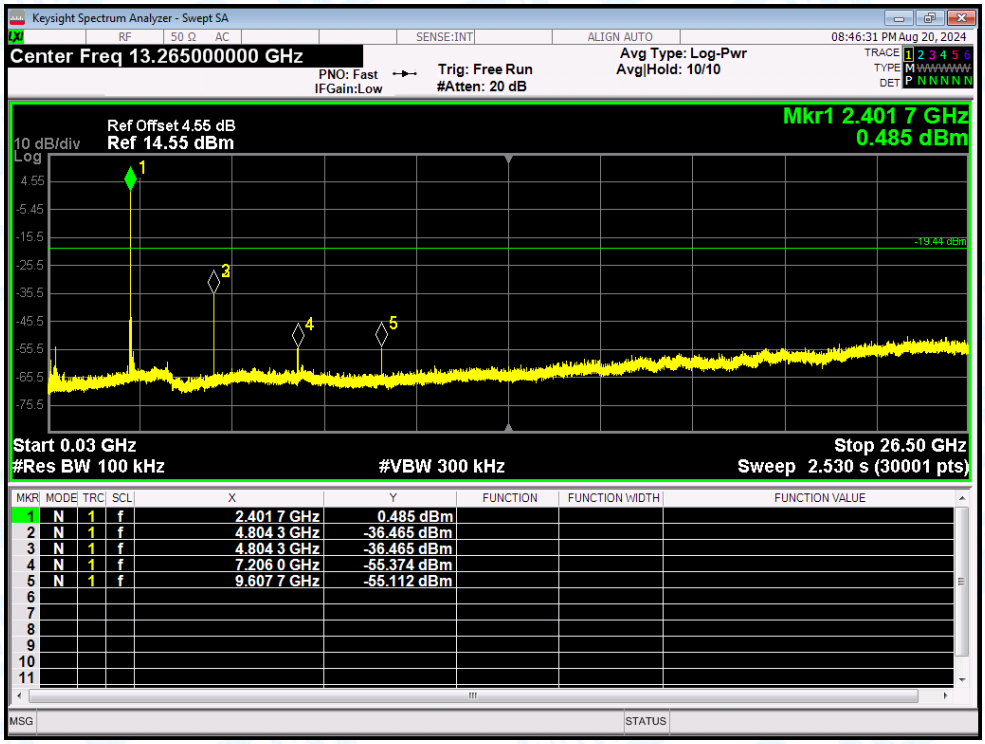
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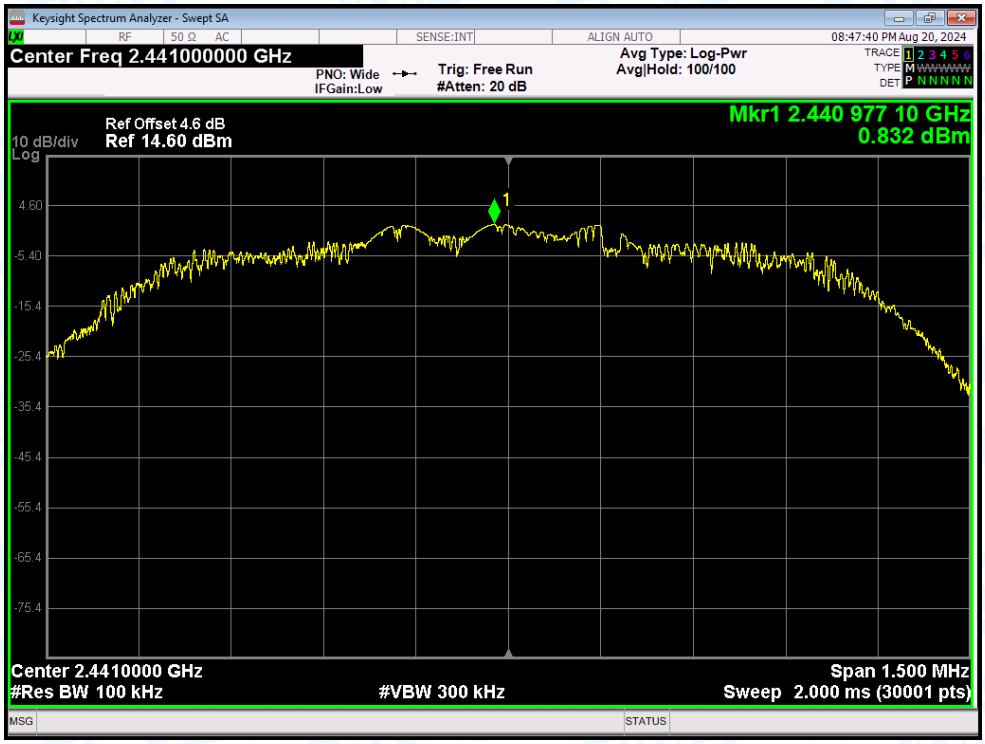
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



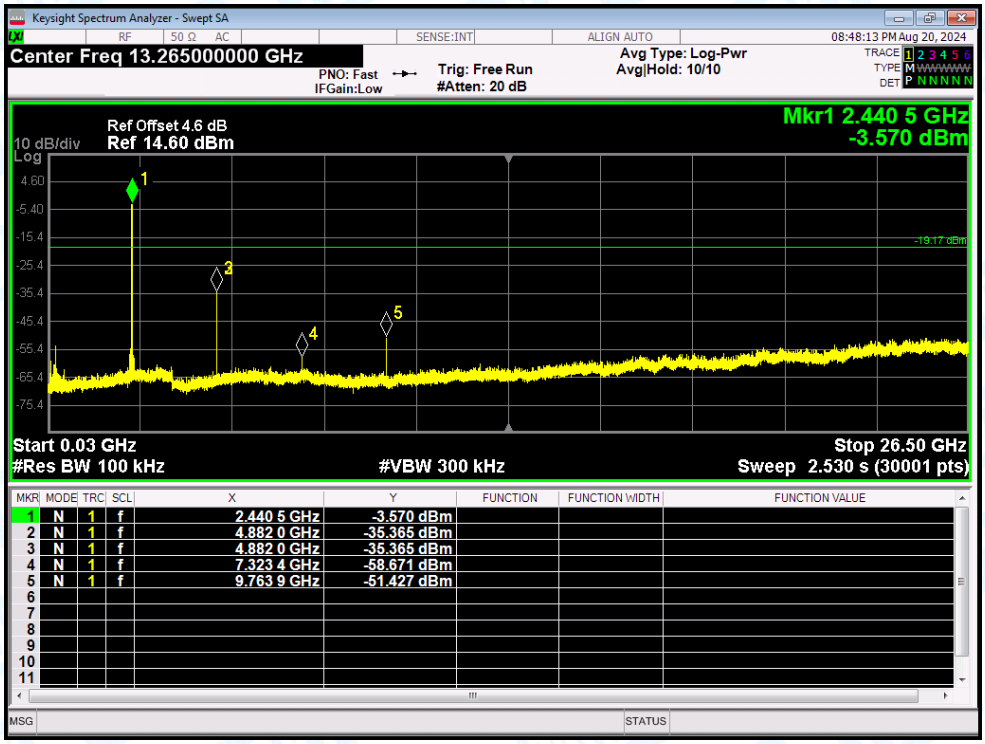
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



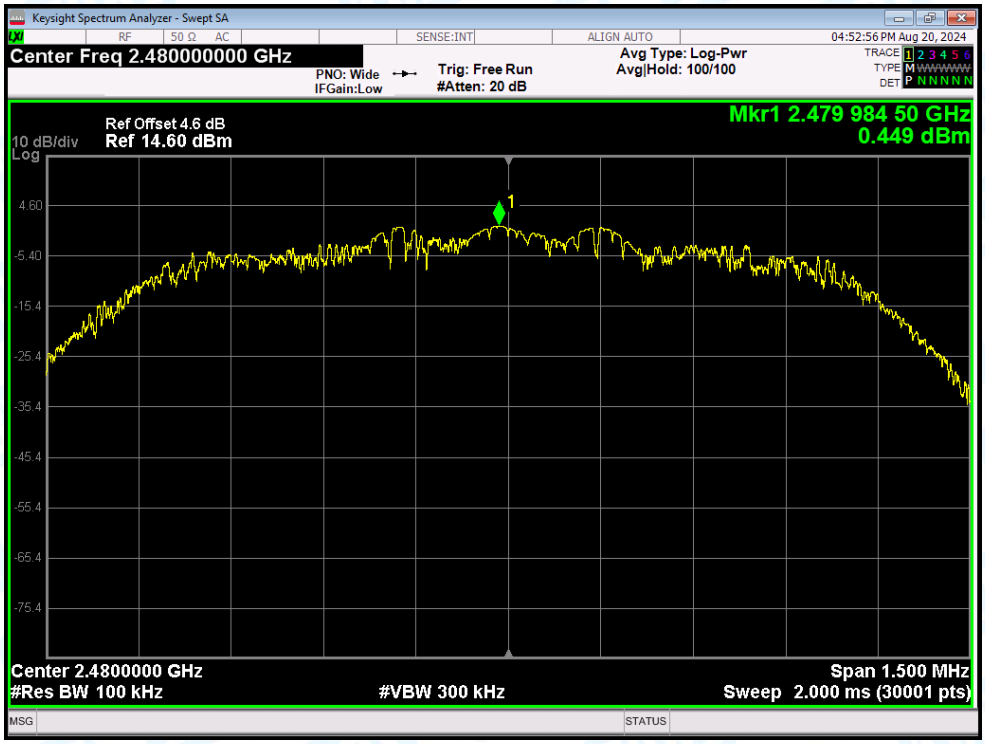
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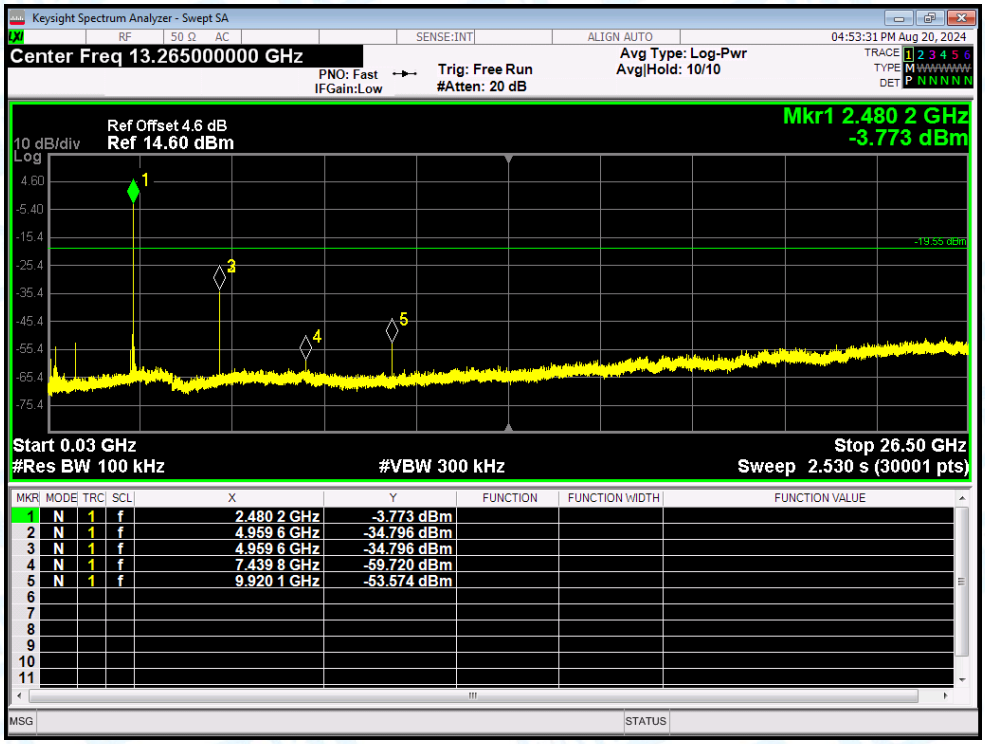
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

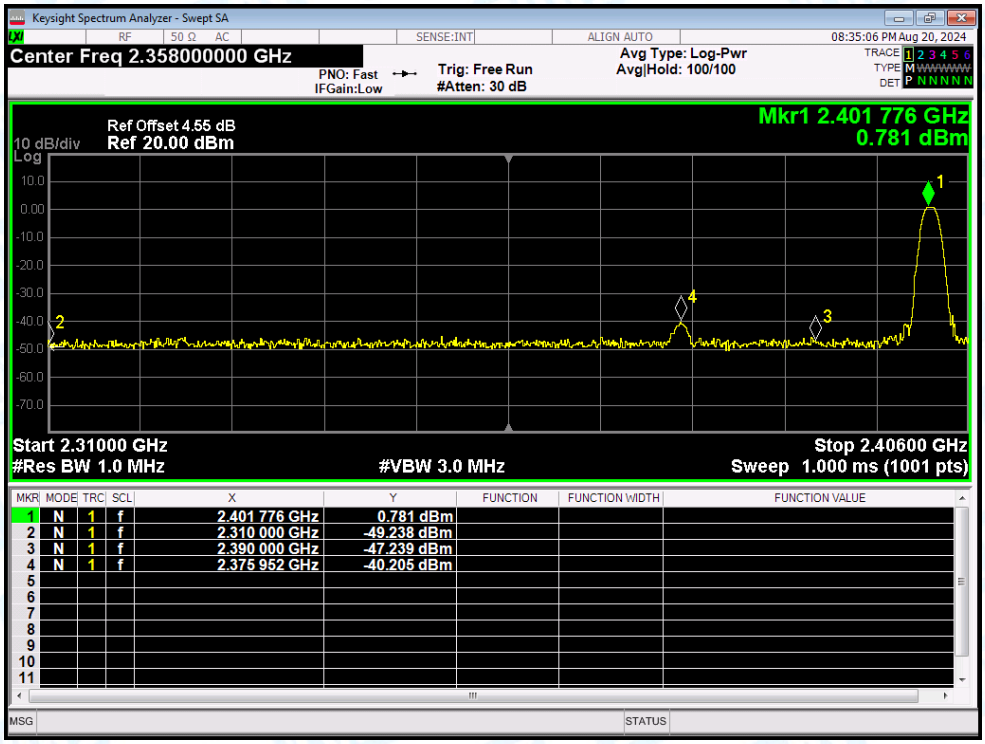


8. Restrict Band

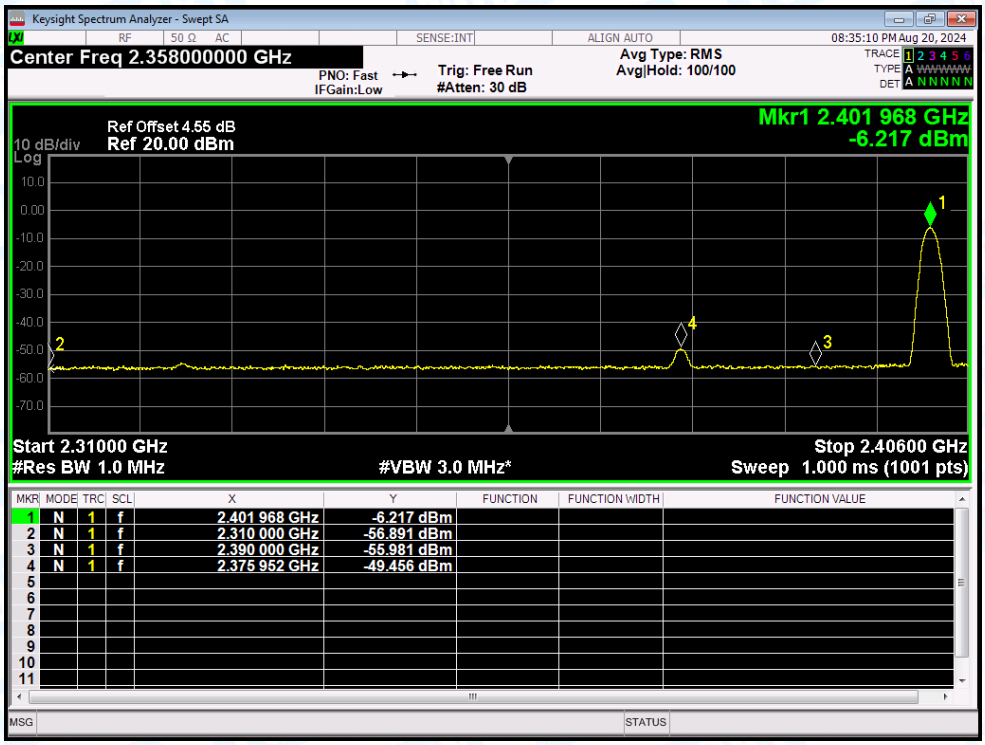
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-49.24	2	-	48.02	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.89	2	4.84	45.21	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2375.952	-40.2	2	-	57.06	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2375.952	-49.46	2	4.84	52.64	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.24	2	-	50.02	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.98	2	4.84	46.12	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-43.83	2	-	53.43	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.88	2	4.84	47.22	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.512	-43.83	2	-	53.43	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.36	-54.35	2	4.84	47.75	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-48.38	2	-	48.88	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.32	2	4.84	46.78	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-49.55	2	-	47.71	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.76	2	4.63	45.13	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2376.144	-40.4	2	-	56.86	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2375.952	-49.42	2	4.63	52.47	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-48.09	2	-	49.17	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.07	2	4.63	45.82	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-46.41	2	-	50.85	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.85	2	4.74	47.15	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.632	-41.6	2	-	55.66	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.232	-54.46	2	4.74	47.54	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.06	2	-	50.2	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.57	2	4.74	46.43	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.7	2	-	49.56	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.05	2	4.74	45.95	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2375.952	-40.43	2	-	56.83	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2376.048	-48.83	2	4.74	53.17	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.59	2	-	49.67	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.42	2	4.74	45.58	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-46.26	2	-	51	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.07	2	4.74	46.93	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.632	-44.61	2	-	52.65	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2485.528	-54.6	2	4.74	47.4	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.42	2	-	50.84	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.66	2	4.74	46.34	Average	54	Pass

Test Graphs

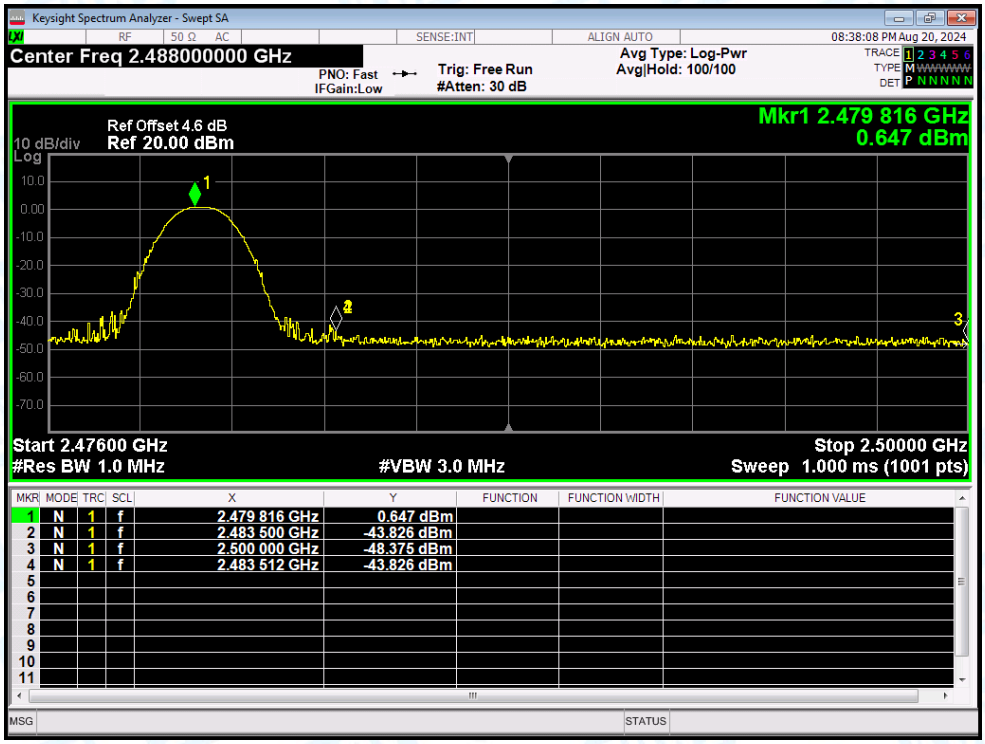
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



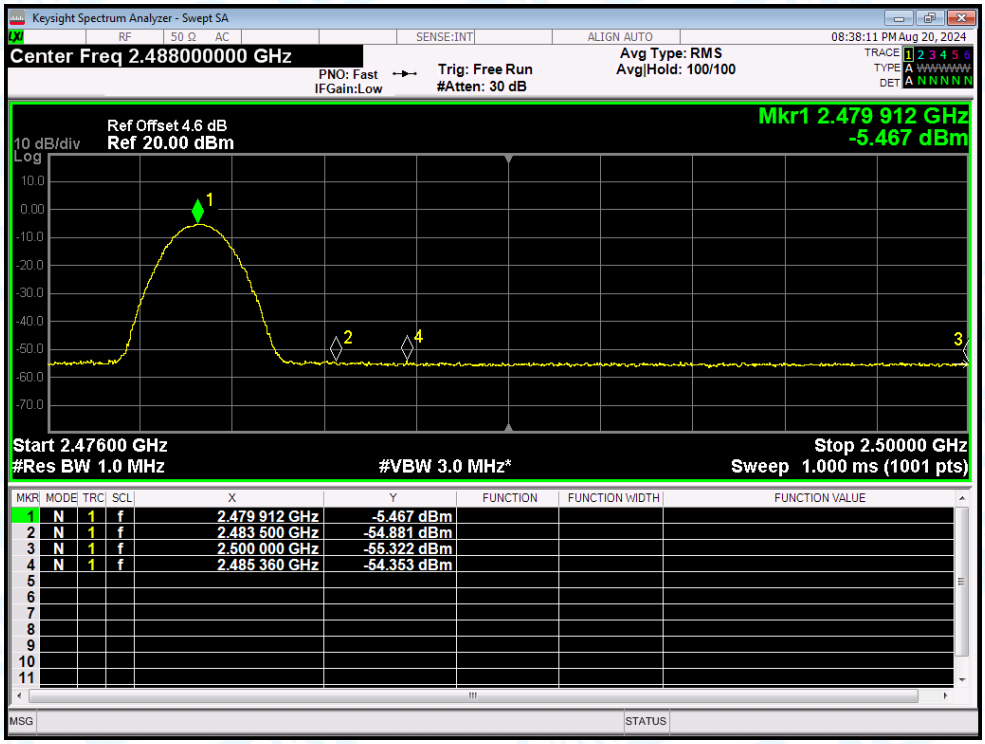
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



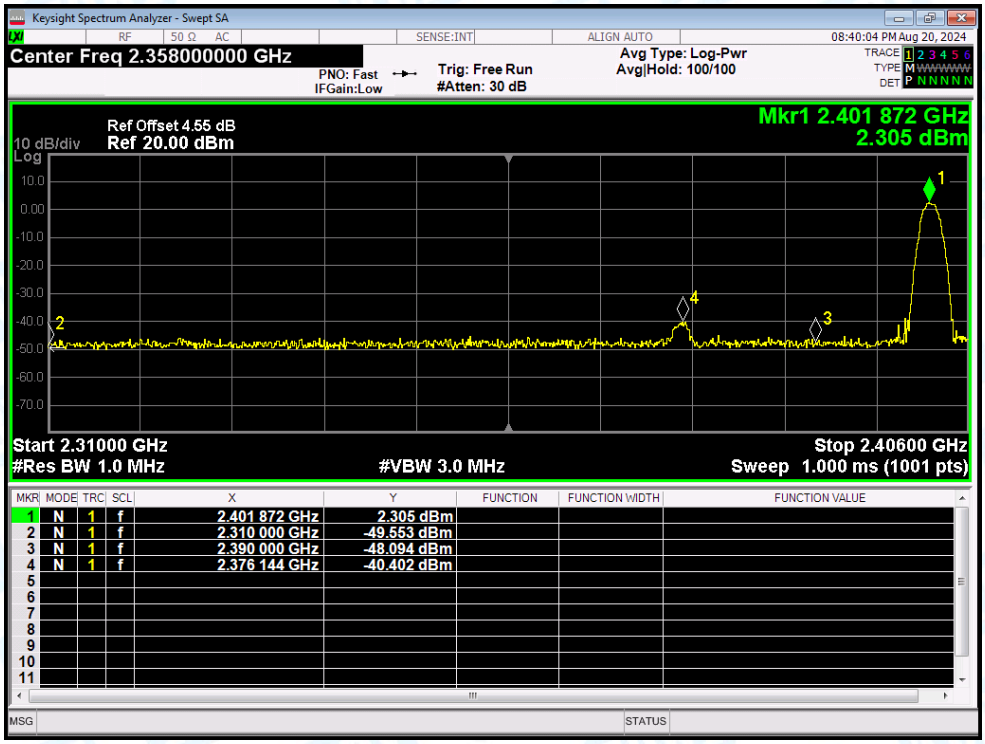
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



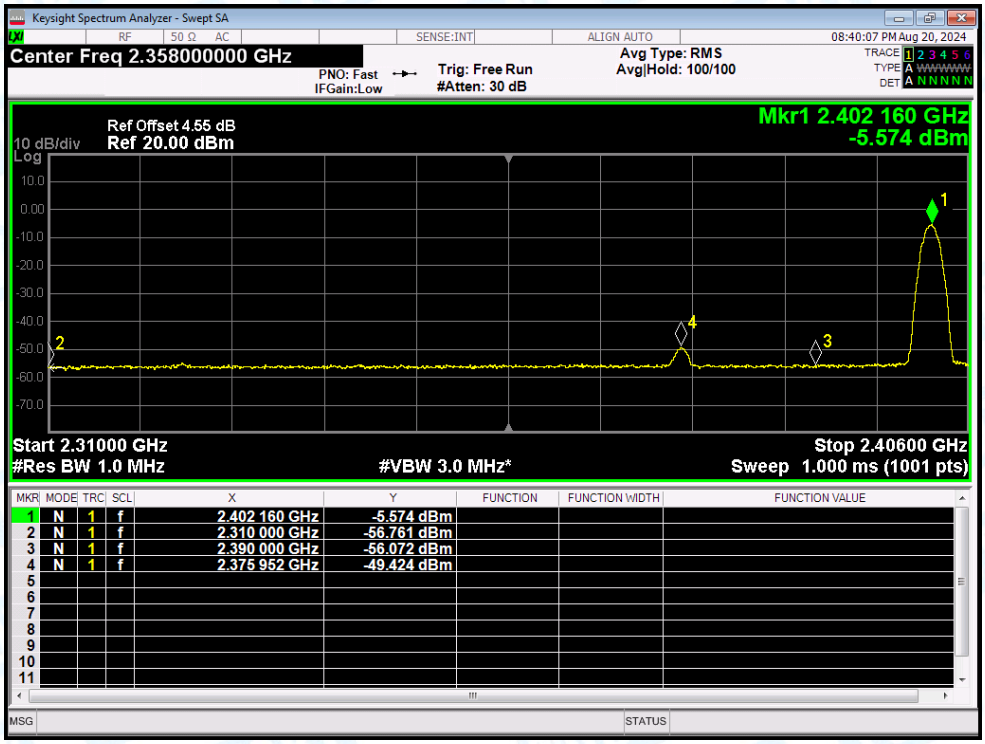
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



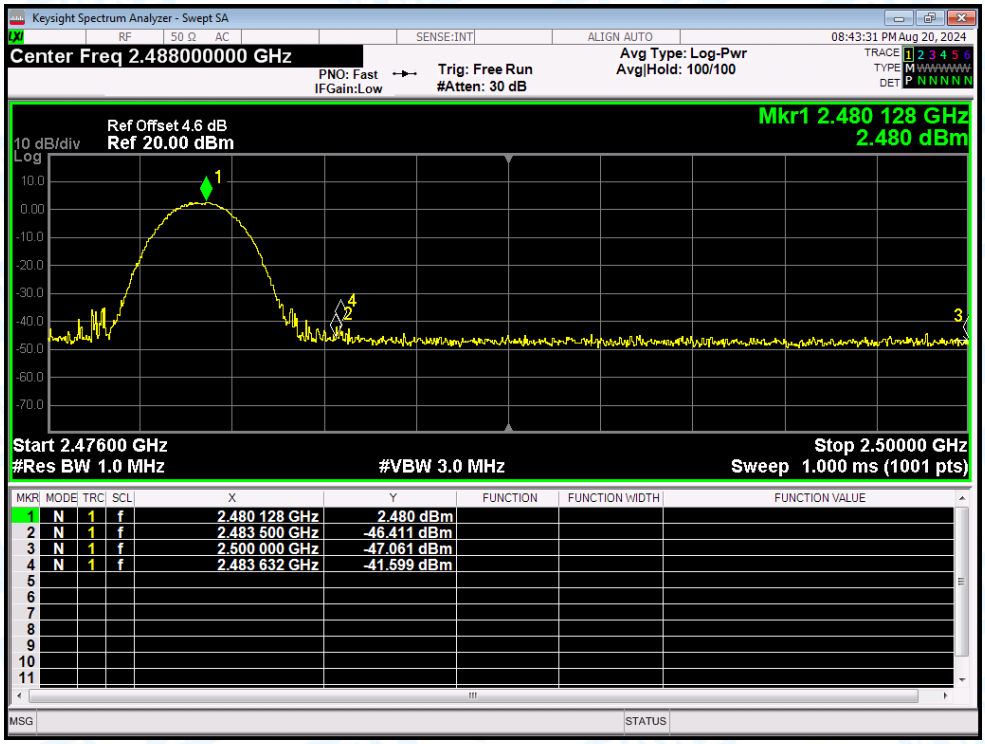
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



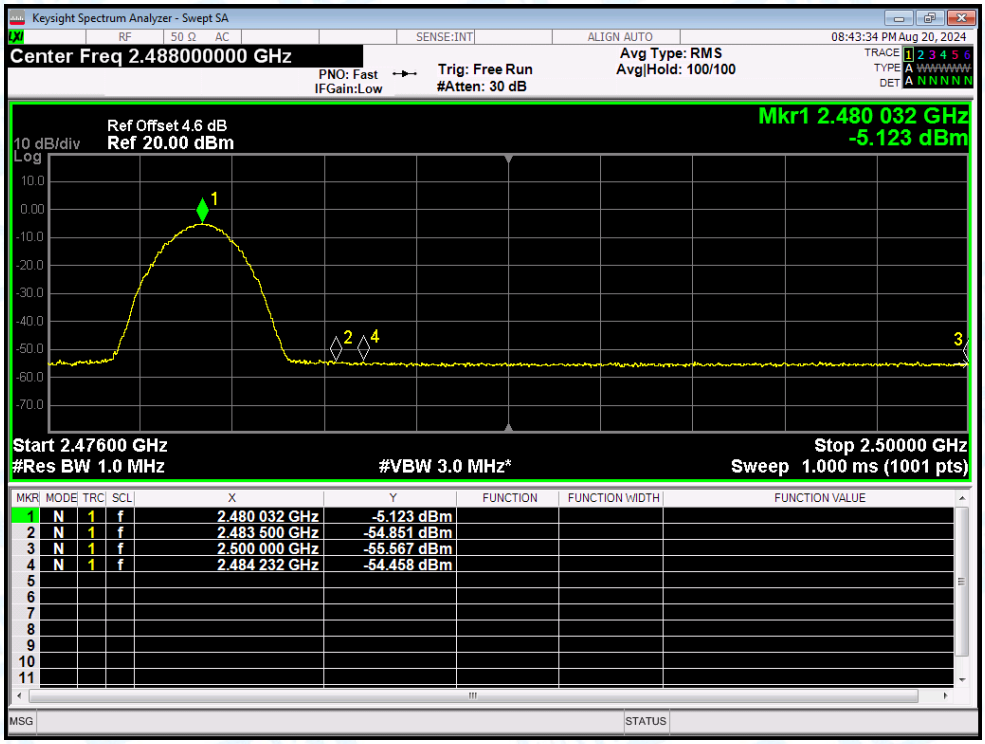
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



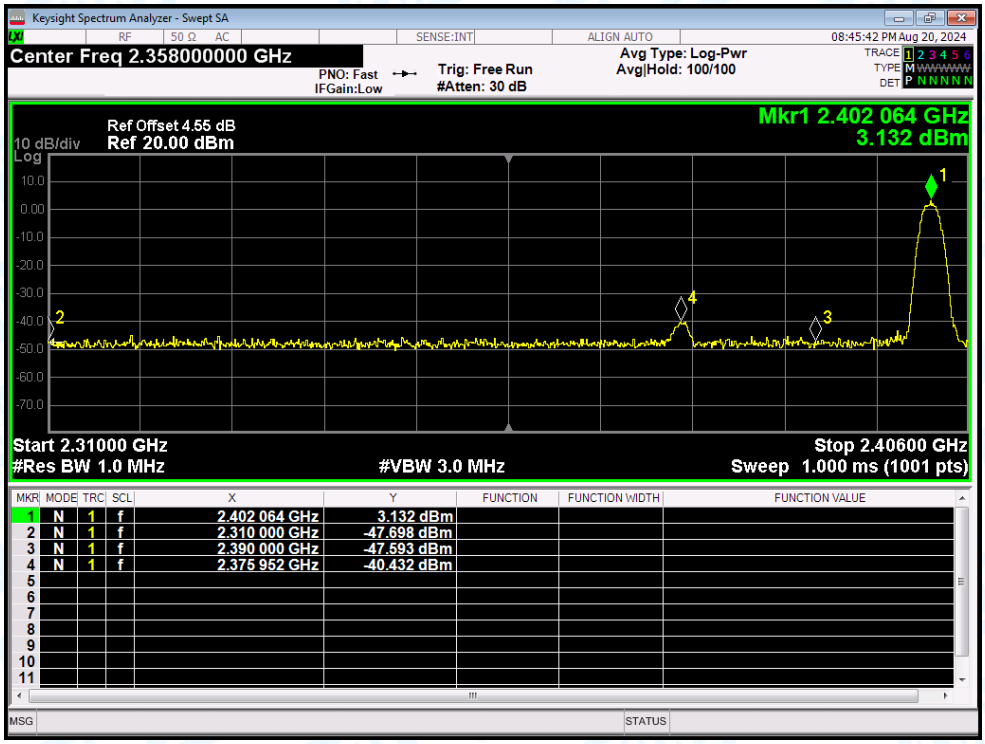
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



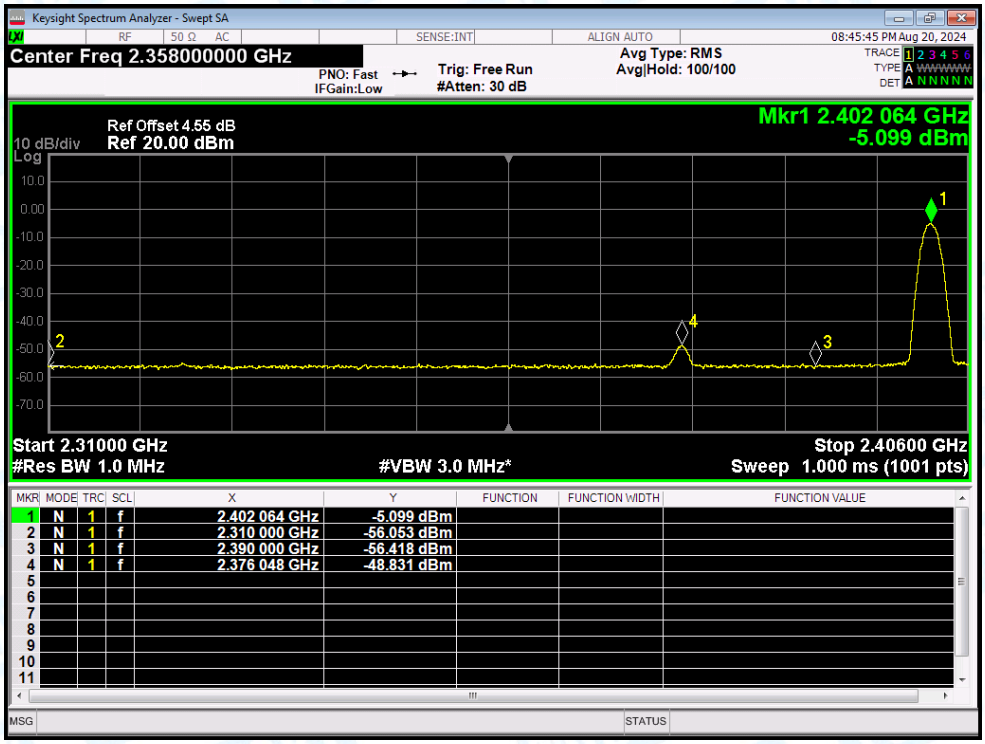
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



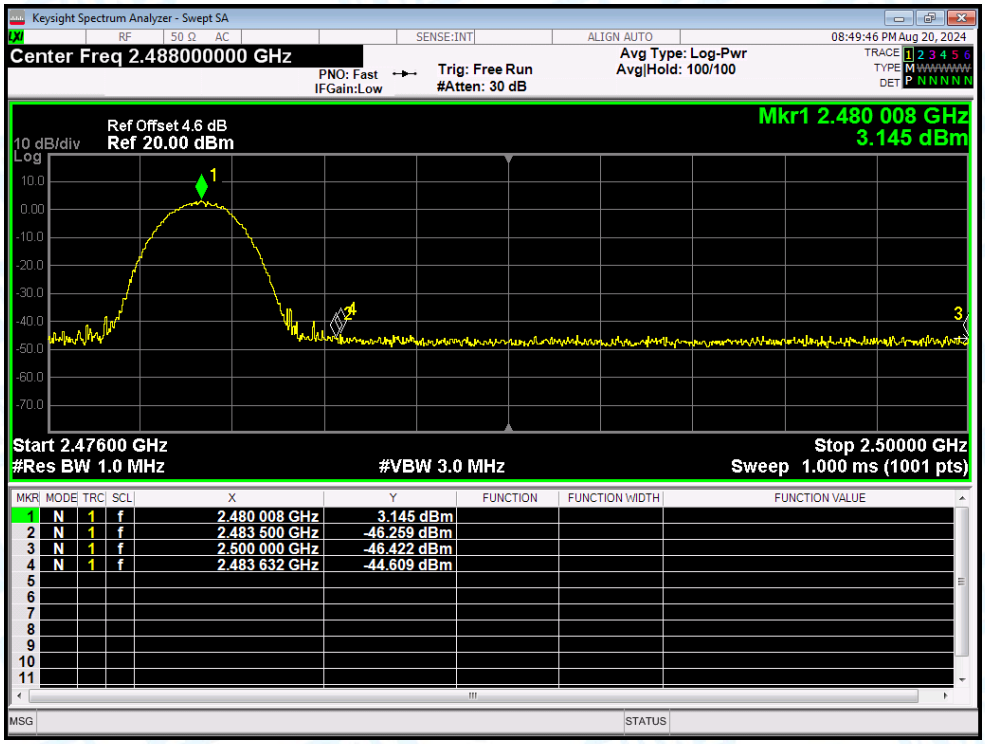
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



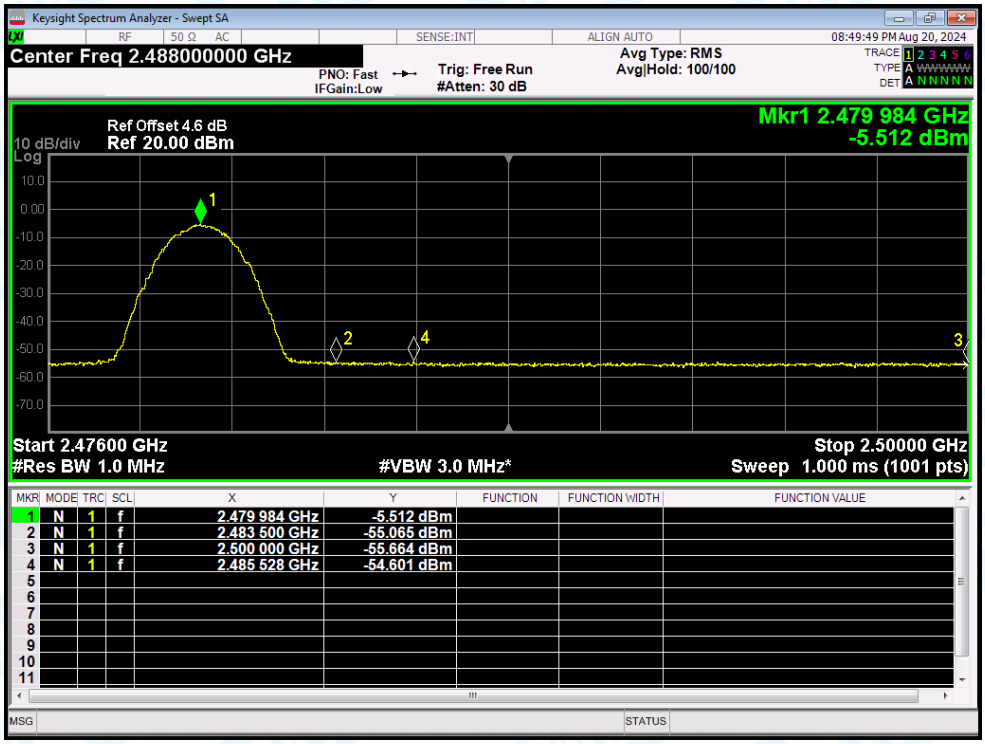
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Average

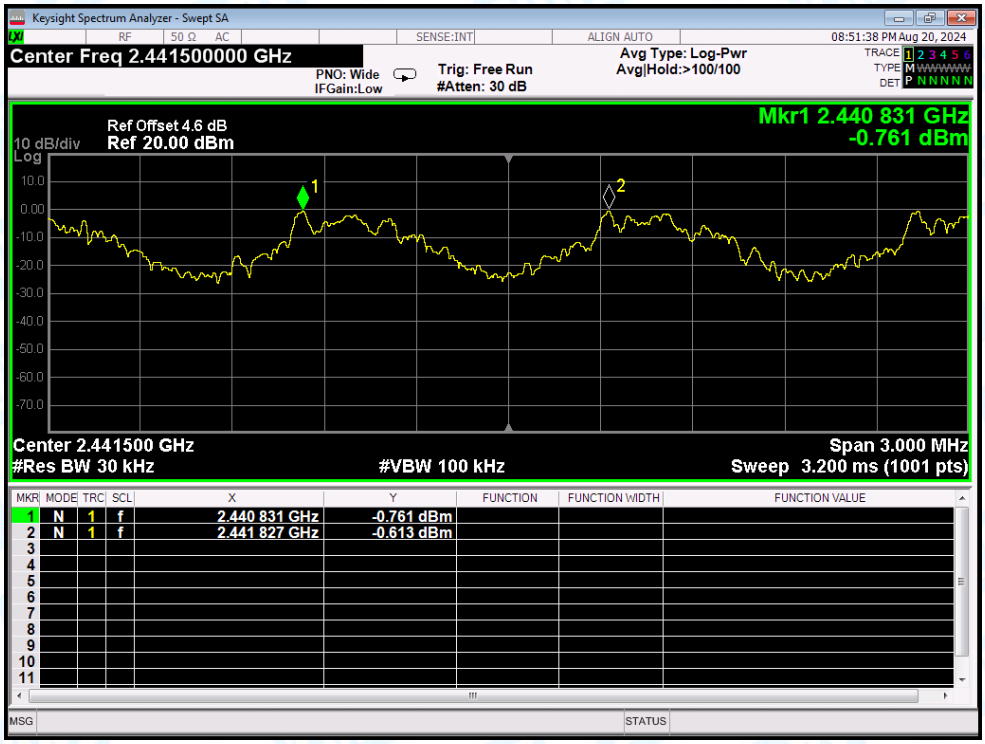


9. Carrier Frequencies Separation

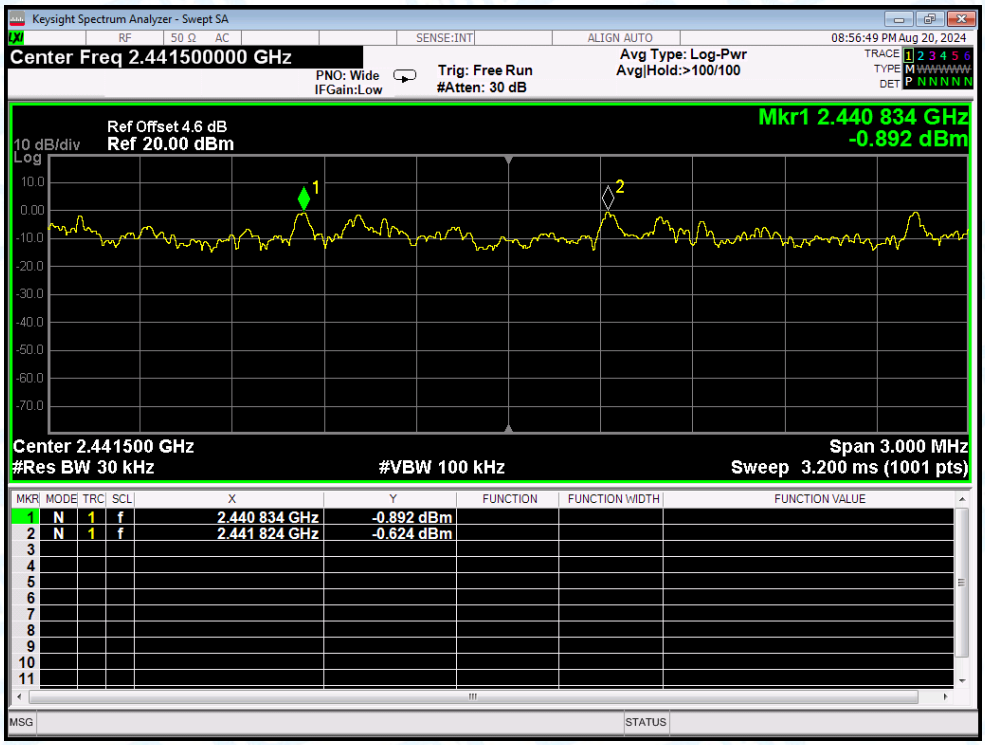
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.831	2441.827	0.996	0.573	Pass
NVNT	2-DH1	Ant1	2440.834	2441.824	0.99	0.84	Pass
NVNT	3-DH1	Ant1	2440.987	2441.98	0.993	0.833	Pass

Test Graphs

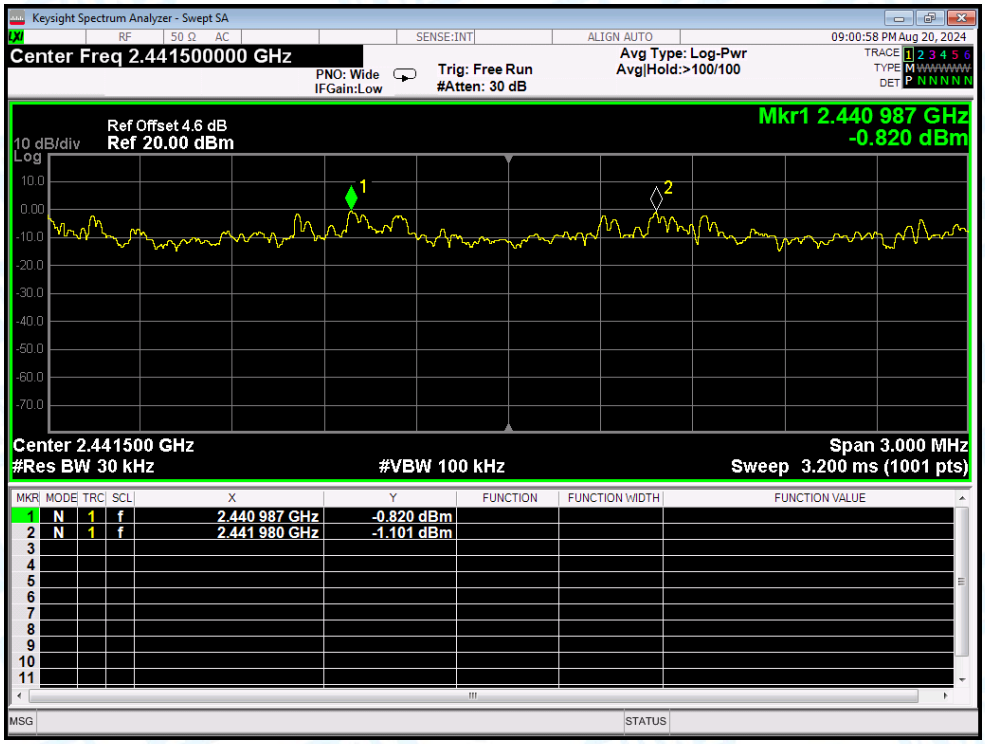
CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



CFS NVNT 3-DH1 2441MHz Ant1

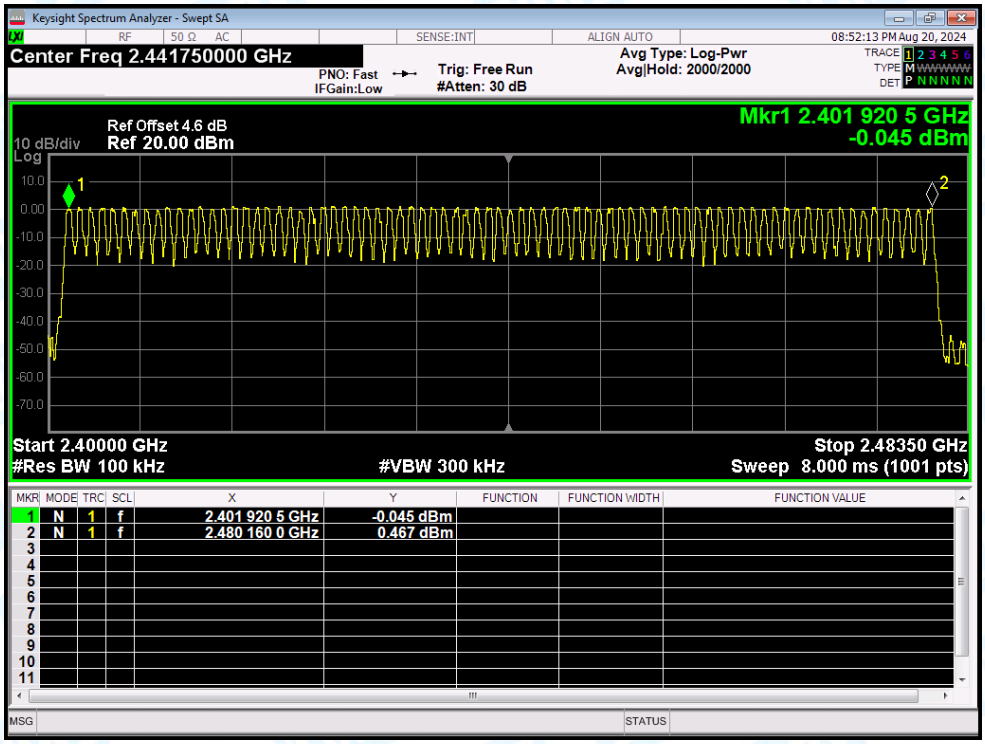


10. Number of Hopping Channel

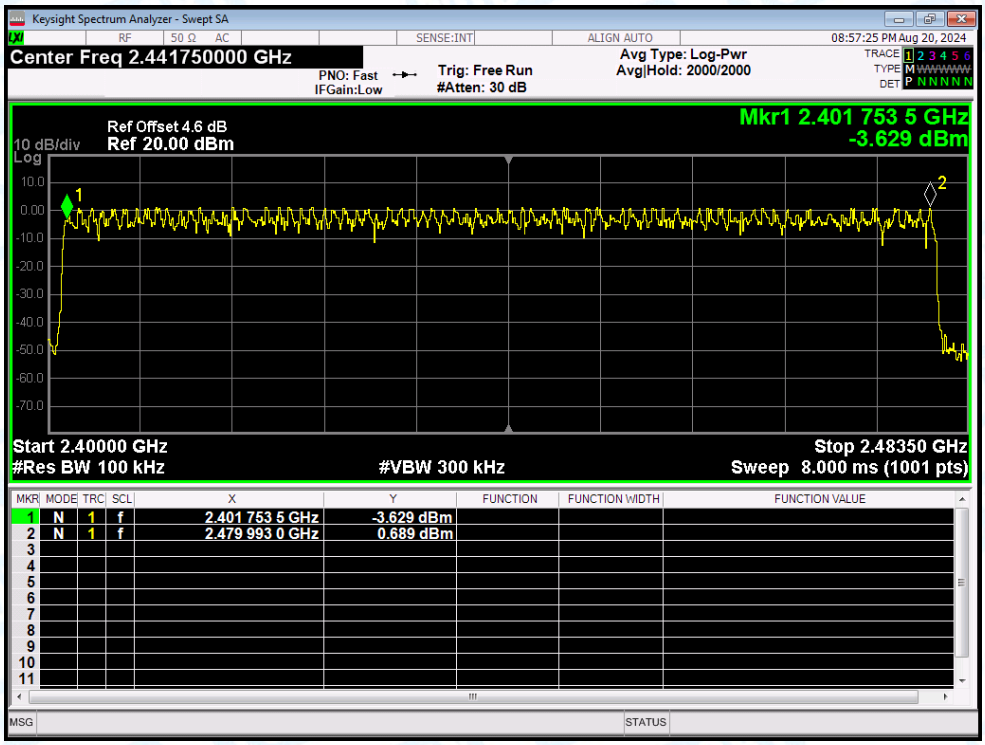
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

Test Graphs

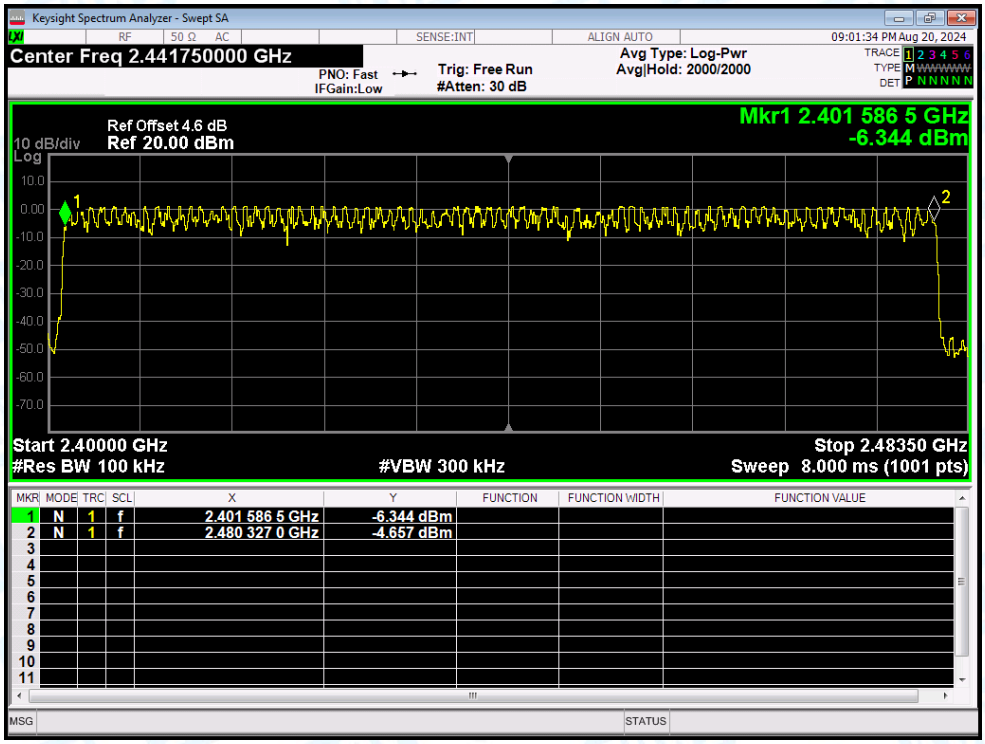
Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



Hopping No. NVNT 3-DH1 2441MHz Ant1

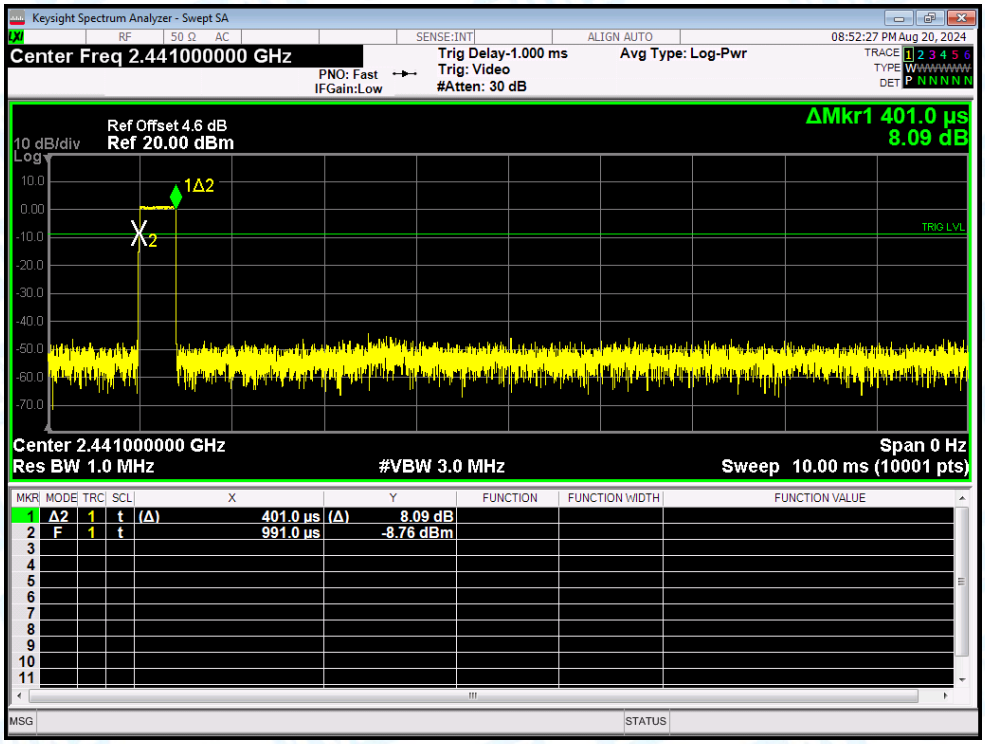


11. Dwell Time

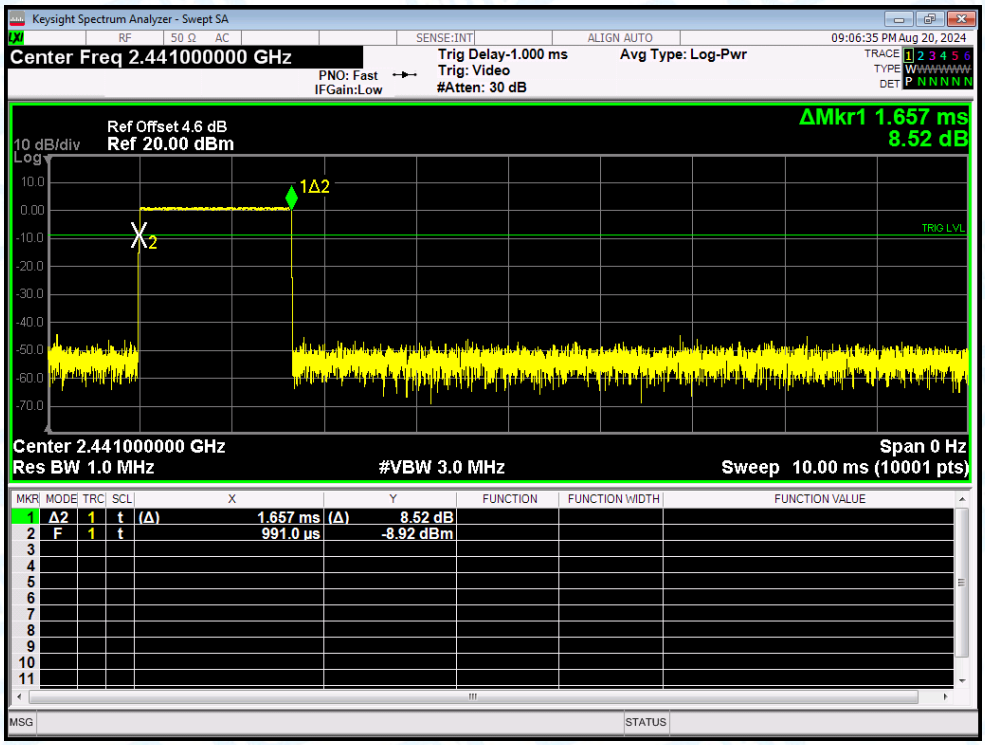
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.401	128.32	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.657	265.12	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.905	309.867	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.409	130.88	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.661	265.76	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.909	310.293	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.409	130.88	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.66	265.6	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.911	310.507	31600	400	Pass

Test Graphs

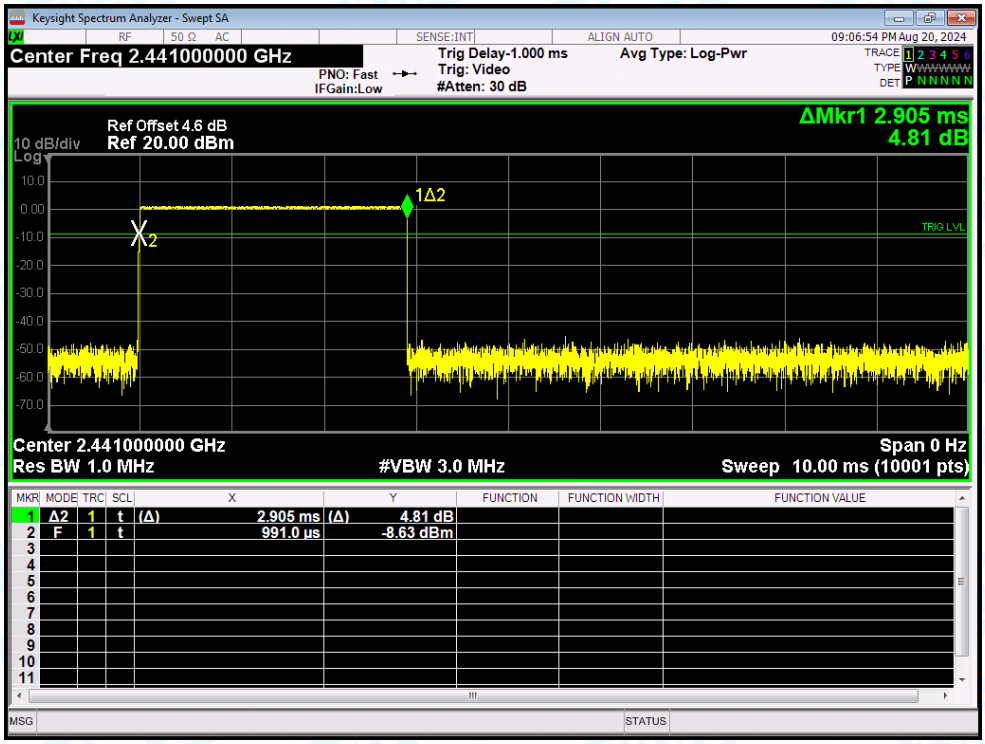
Dwell NVNT 1-DH1 2441MHz Ant1



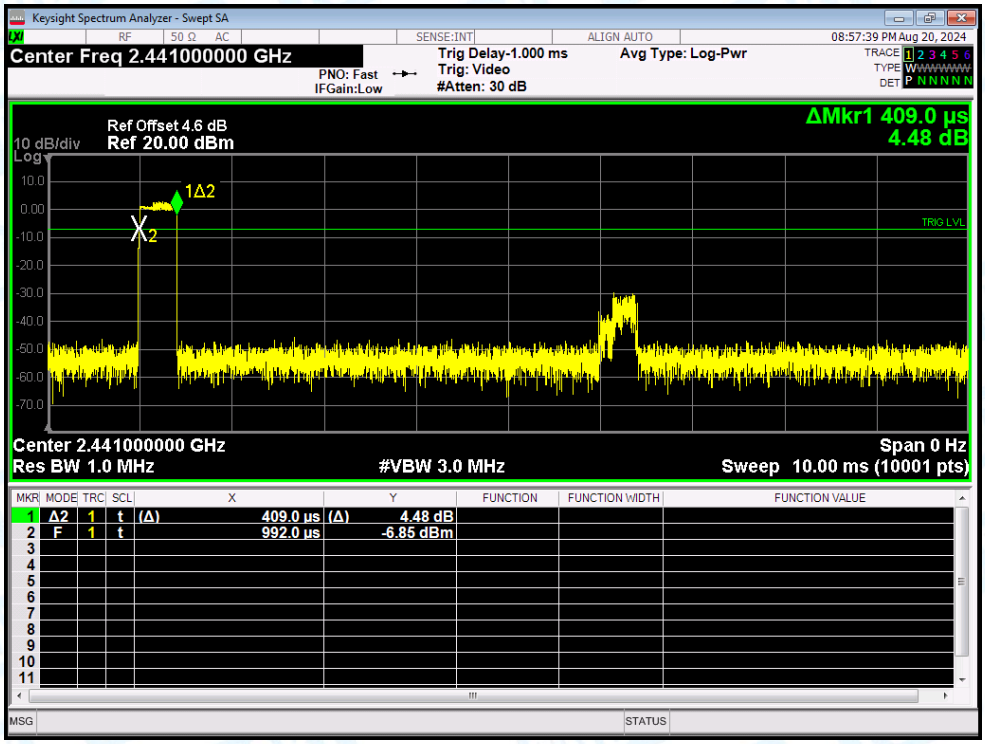
Dwell NVNT 1-DH3 2441MHz Ant1



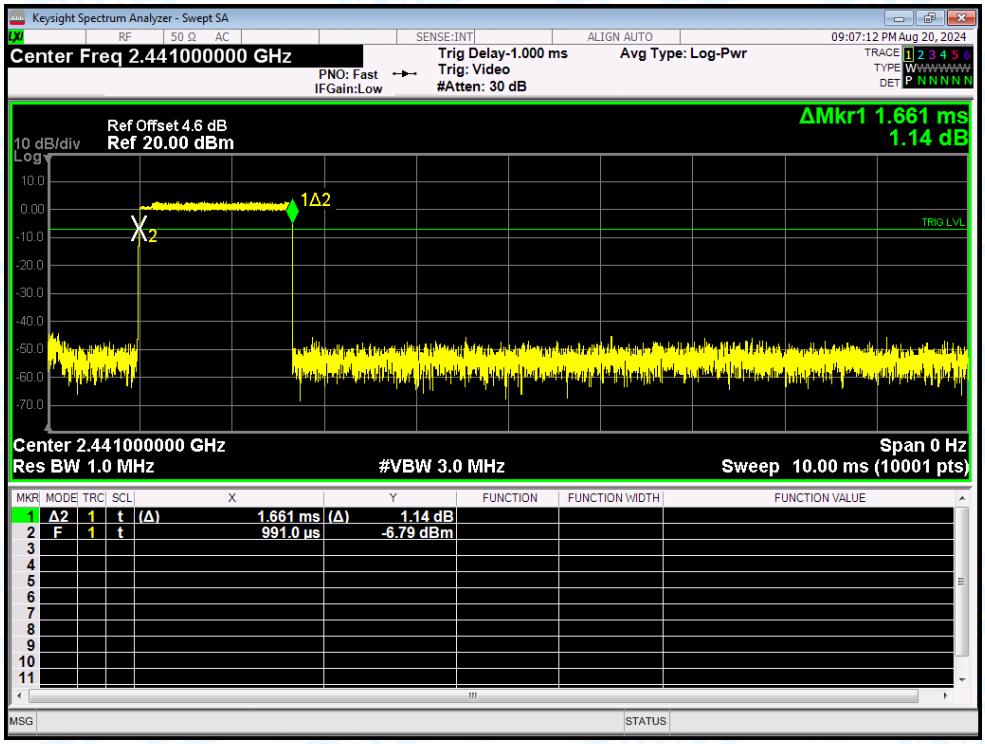
Dwell NVNT 1-DH5 2441MHz Ant1



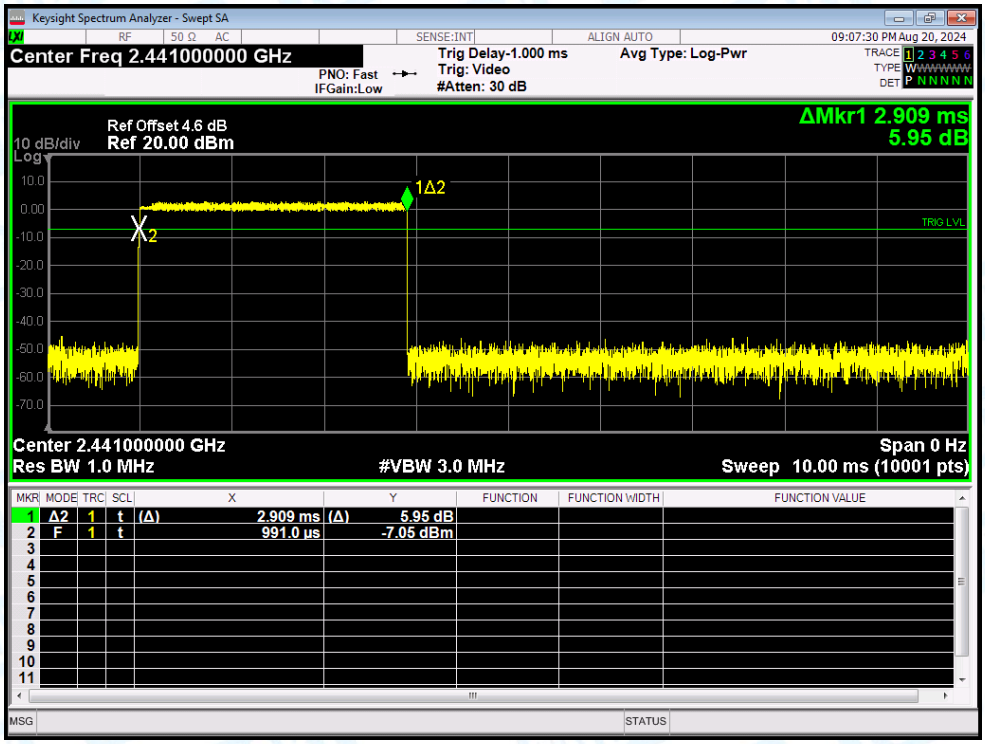
Dwell NVNT 2-DH1 2441MHz Ant1



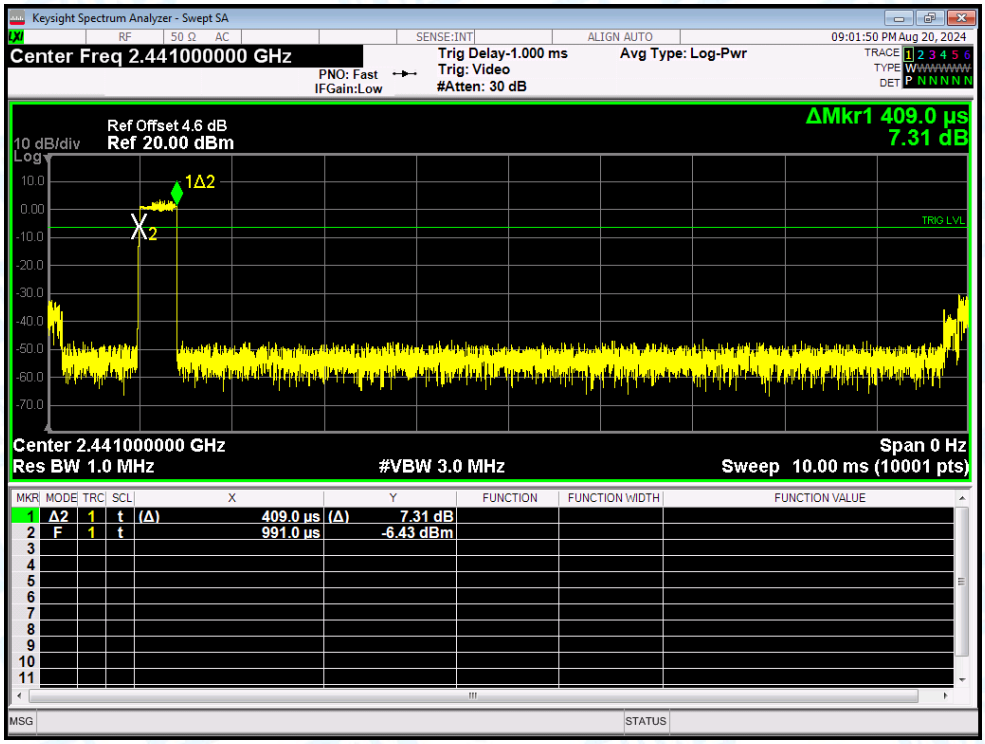
Dwell NVNT 2-DH3 2441MHz Ant1



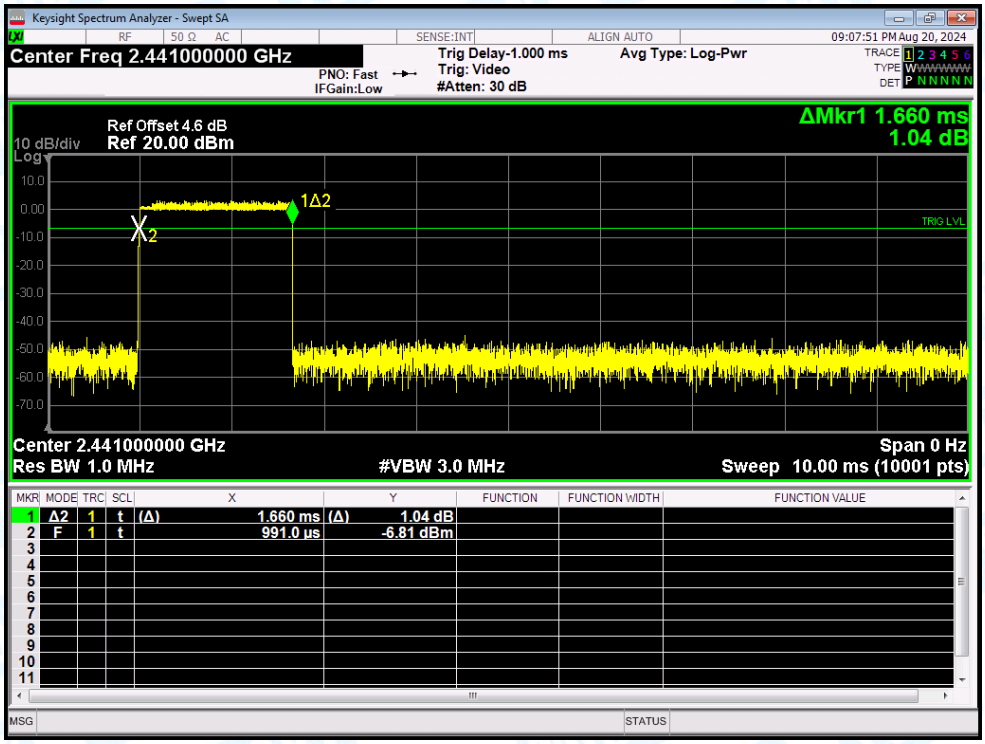
Dwell NVNT 2-DH5 2441MHz Ant1



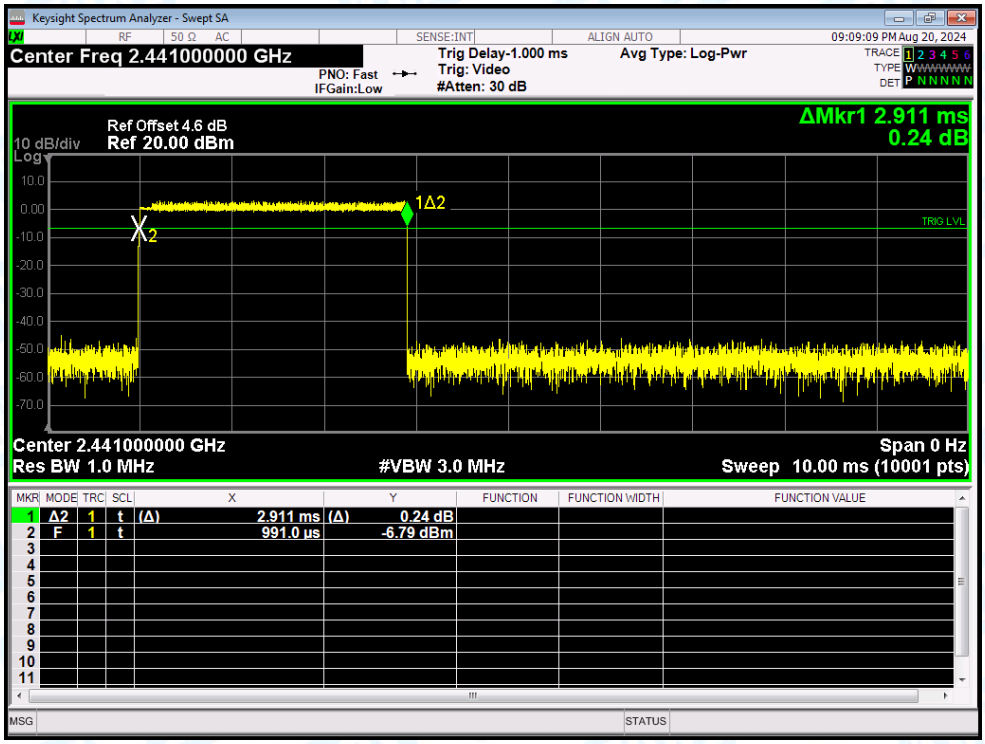
Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



Dwell NVNT 3-DH5 2441MHz Ant1



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