

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	G6
Test Model:	G6
Sample ID:	HC-C-202508-0223-01-2#
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	50%
Test Voltage:	DC 5V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202508-0223-81 The report only show the worst case data.	

Contents

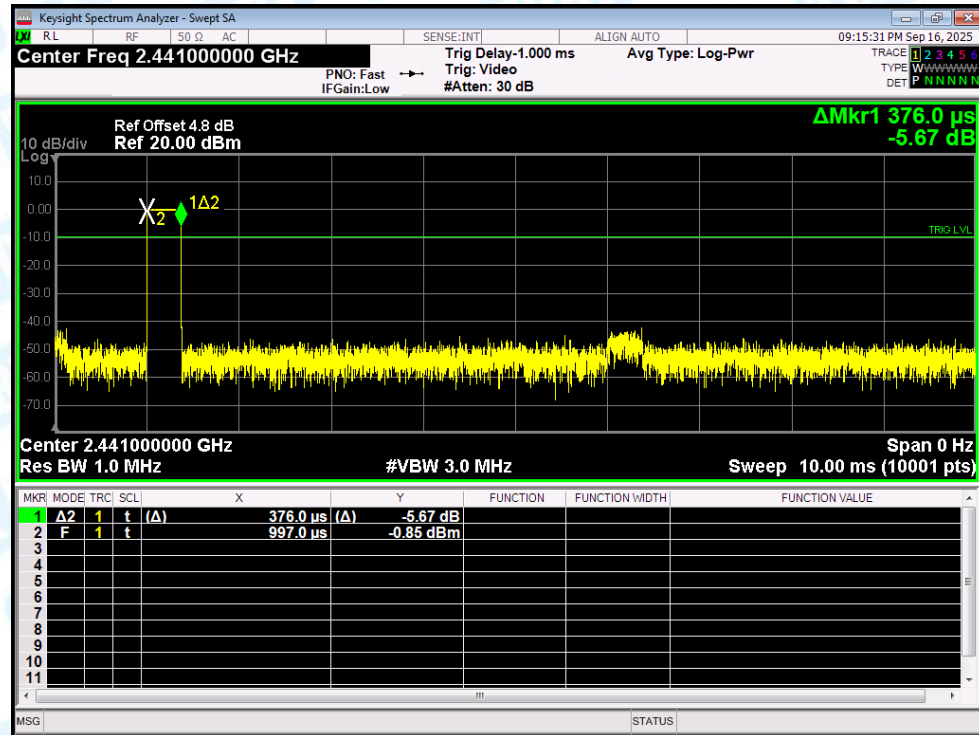
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1. Dwell Time

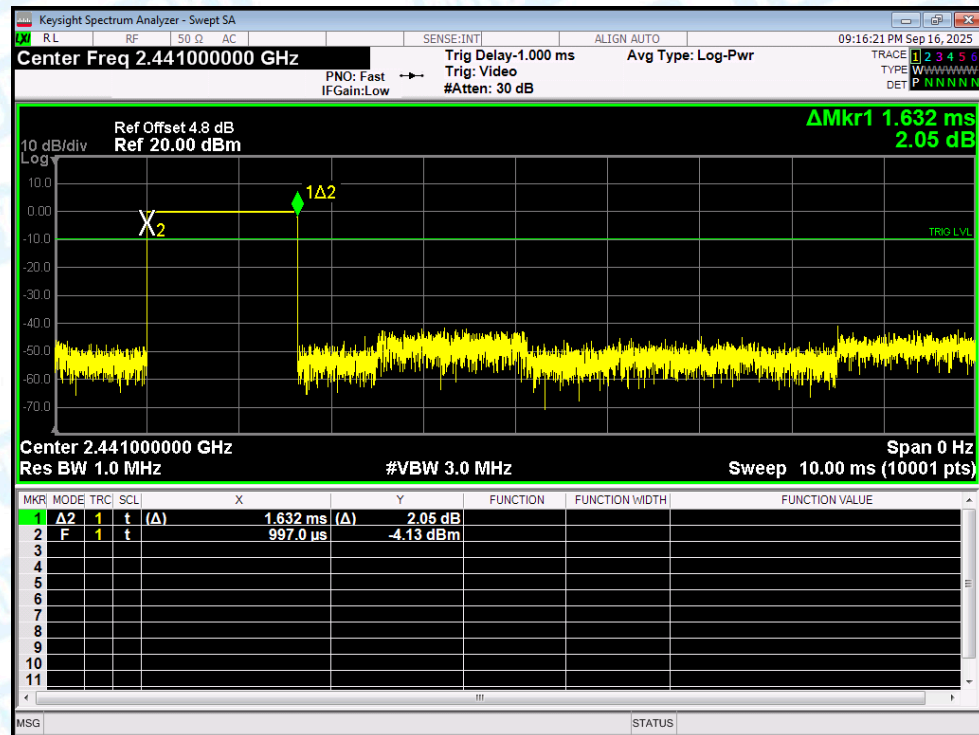
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.376	120.32	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.386	123.52	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.637	261.92	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.886	307.84	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.387	123.84	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.637	261.92	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.888	308.053	31600	400	Pass

Test Graphs

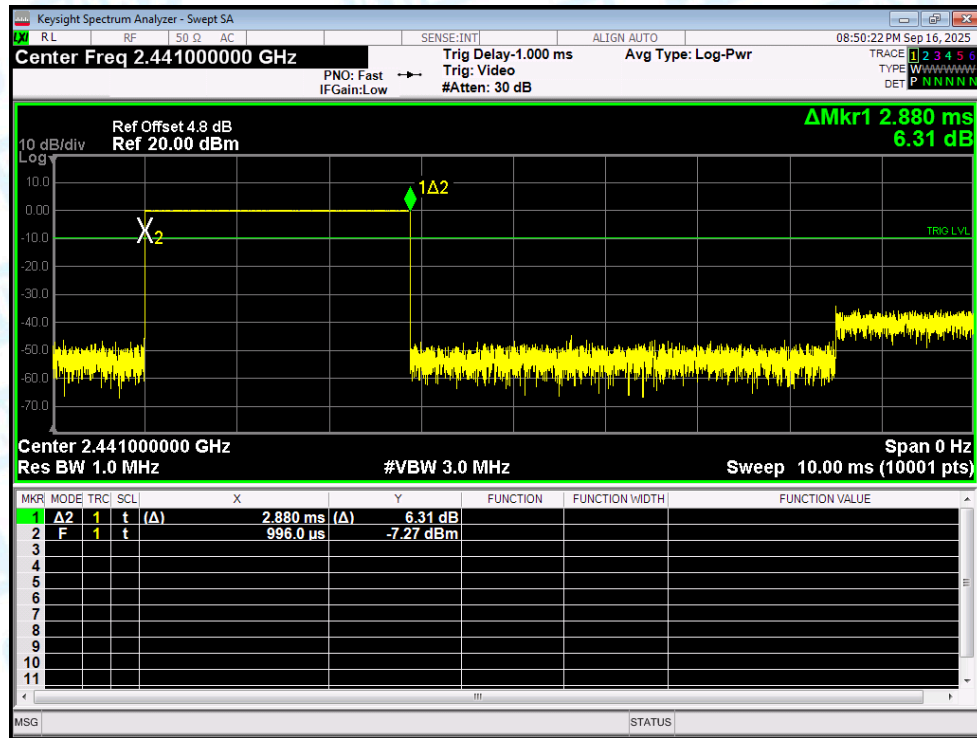
Dwell NVNT 1-DH1 2441MHz Ant1



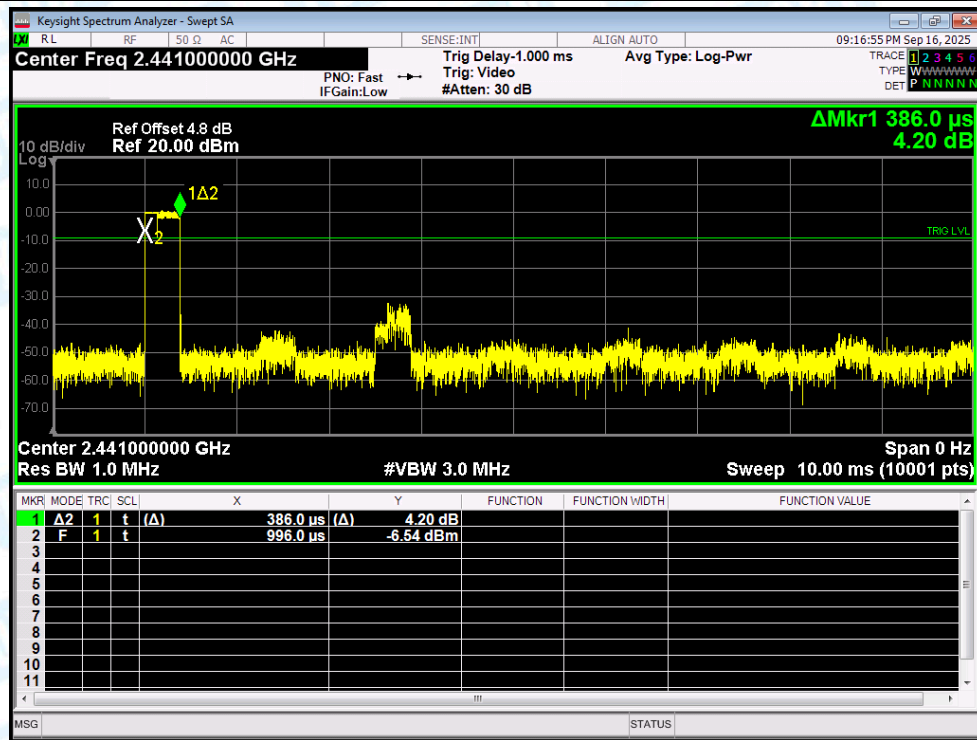
Dwell NVNT 1-DH3 2441MHz Ant1



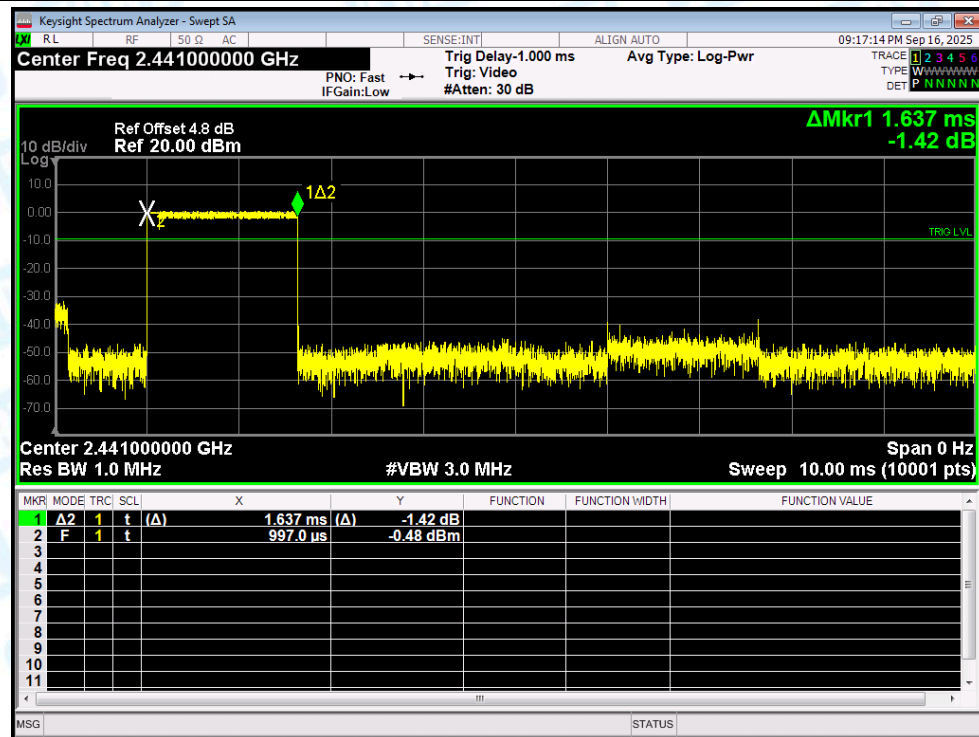
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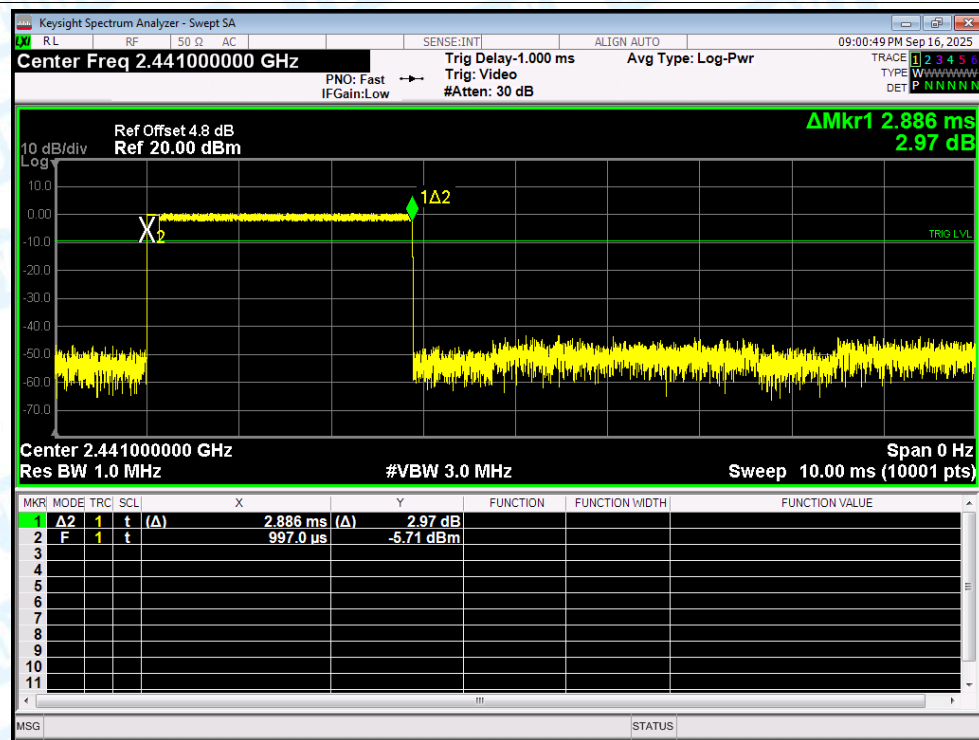
Dwell NVNT 2-DH1 2441MHz Ant1



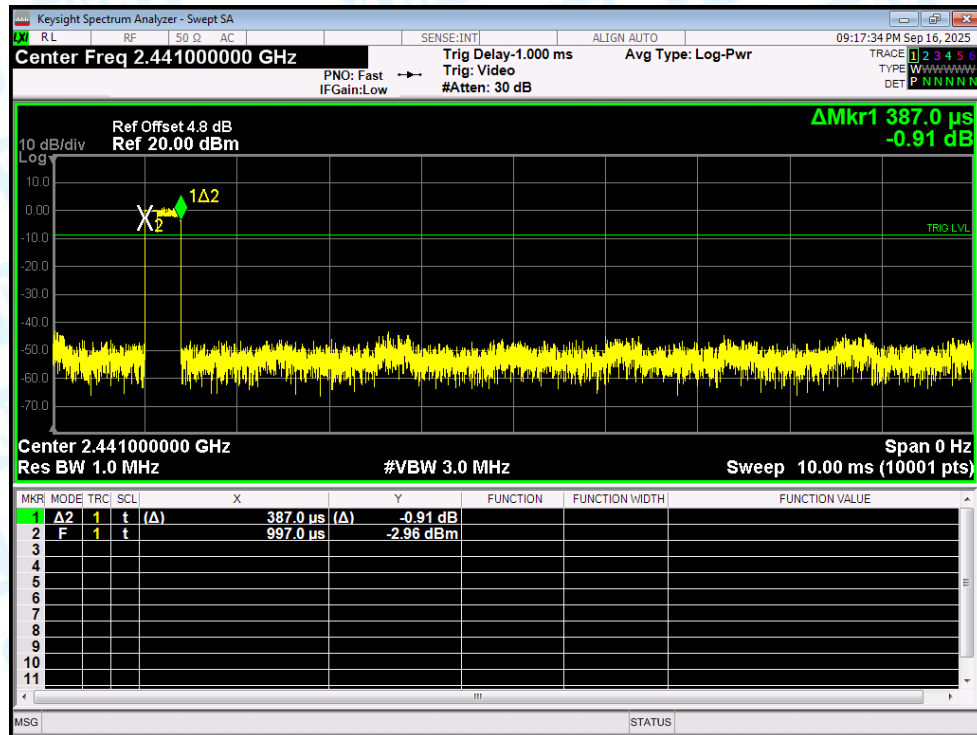
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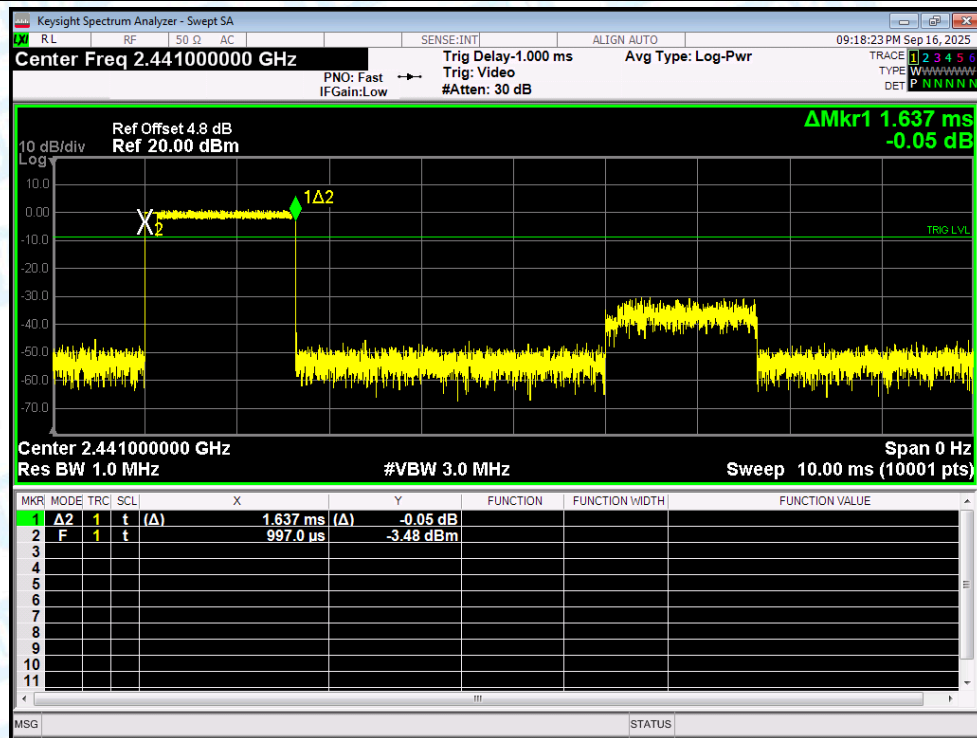
Dwell NVNT 2-DH5 2441MHz Ant1

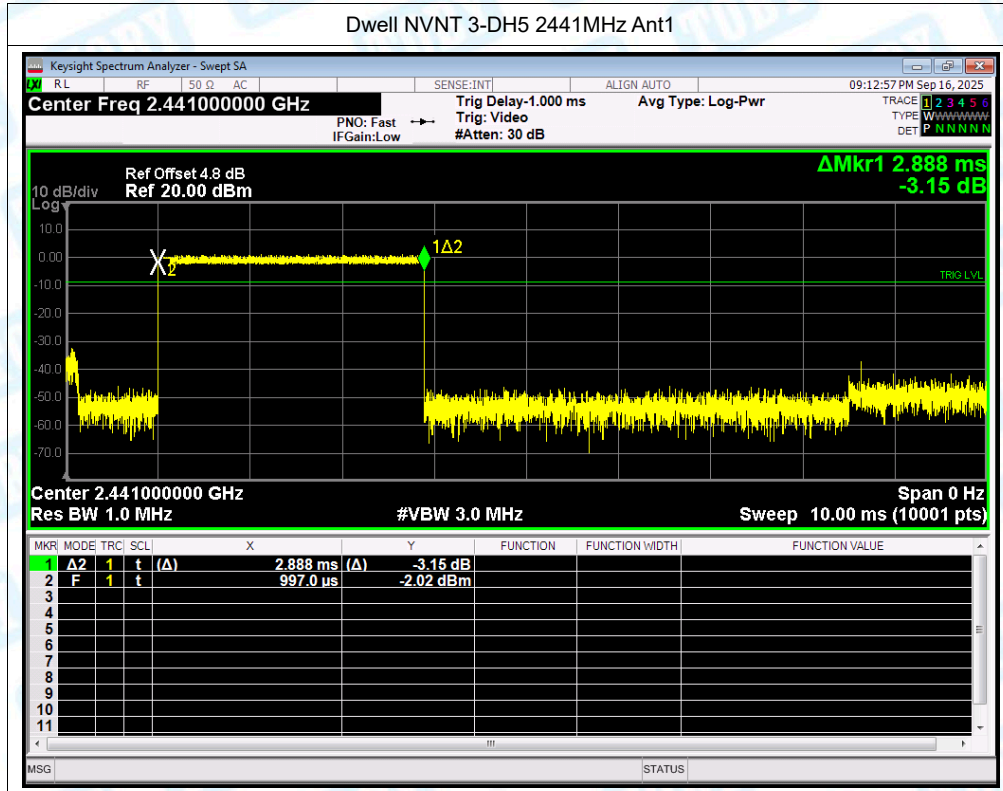


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



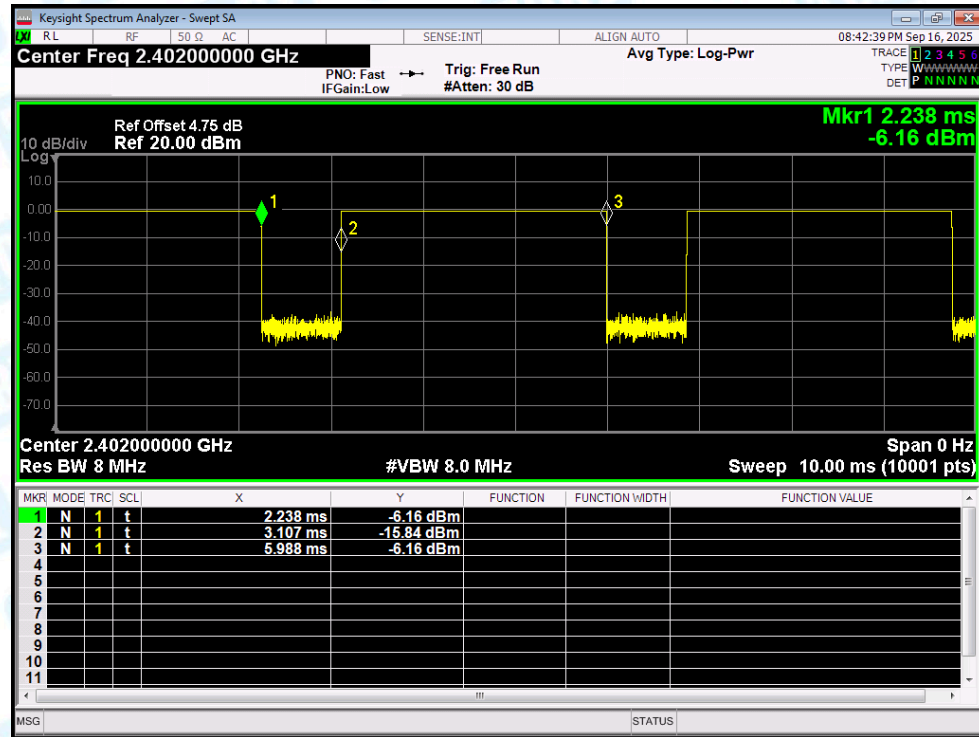


2. Duty Cycle

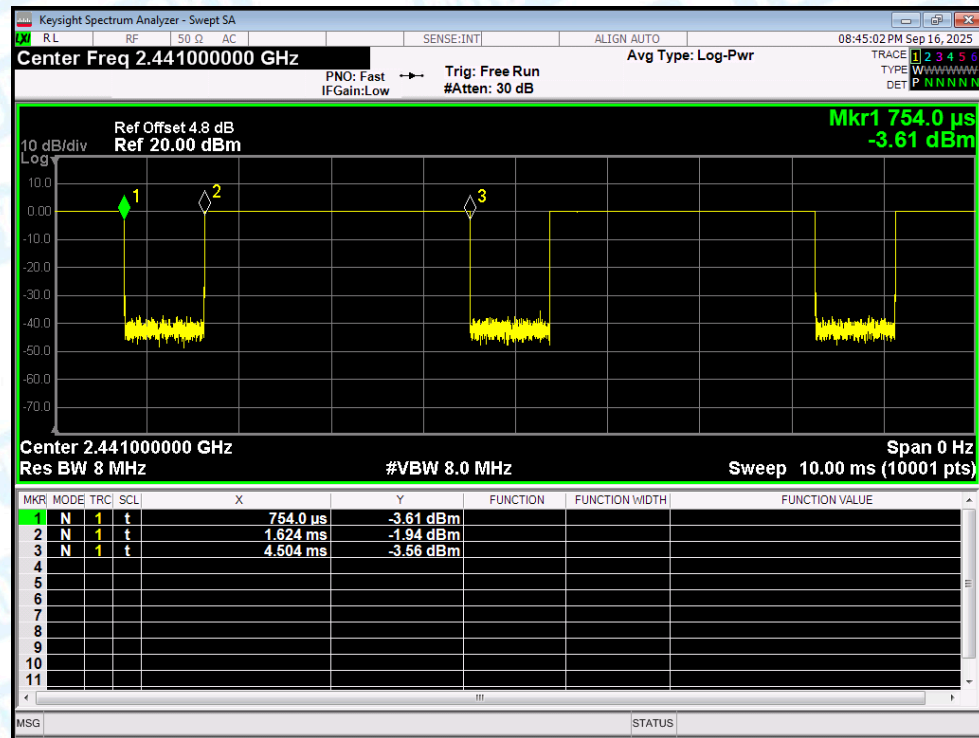
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.83	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.8	1.15	0.35
NVNT	1-DH5	2480	Ant1	76.83	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.04	1.13	0.35

Test Graphs

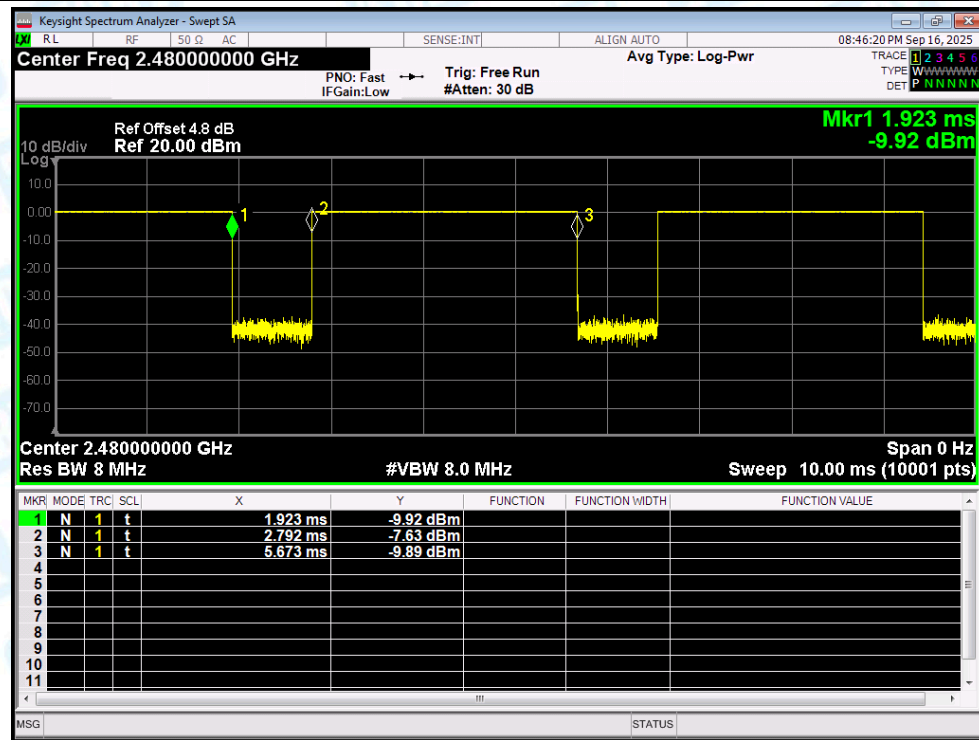
Duty Cycle NVNT 1-DH5 2402MHz Ant1



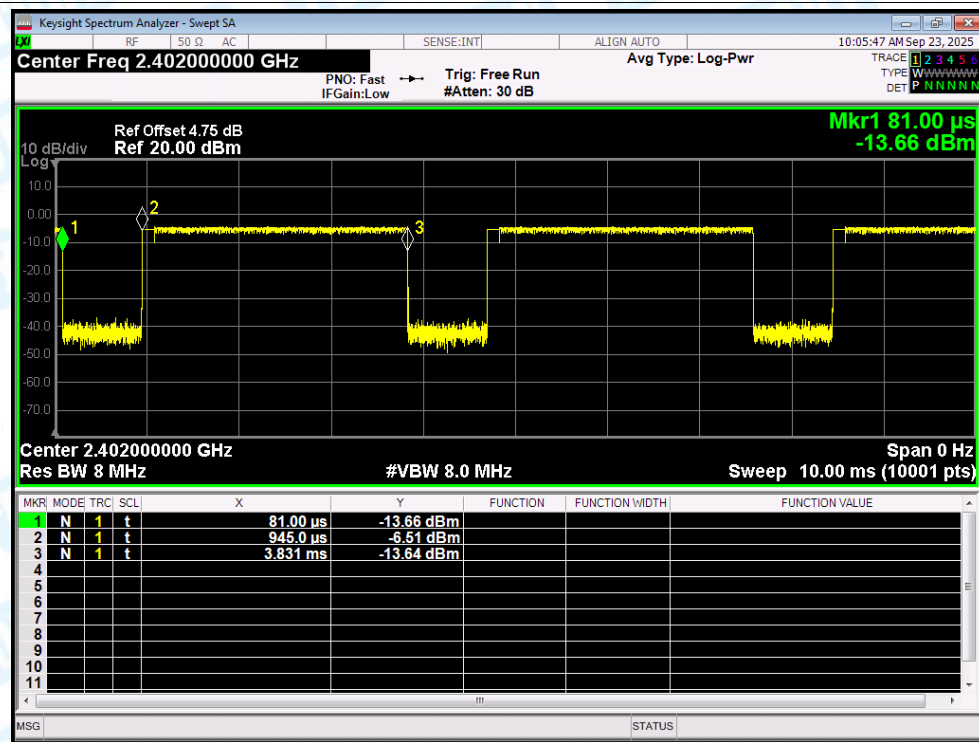
Duty Cycle NVNT 1-DH5 2441MHz Ant1



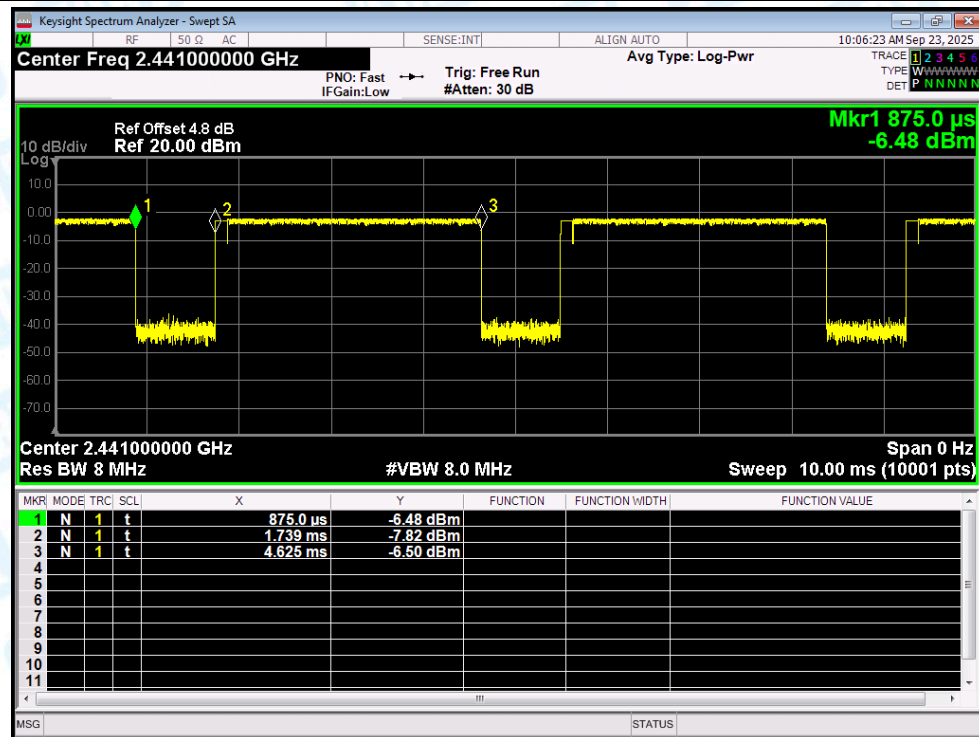
Duty Cycle NVNT 1-DH5 2480MHz Ant1



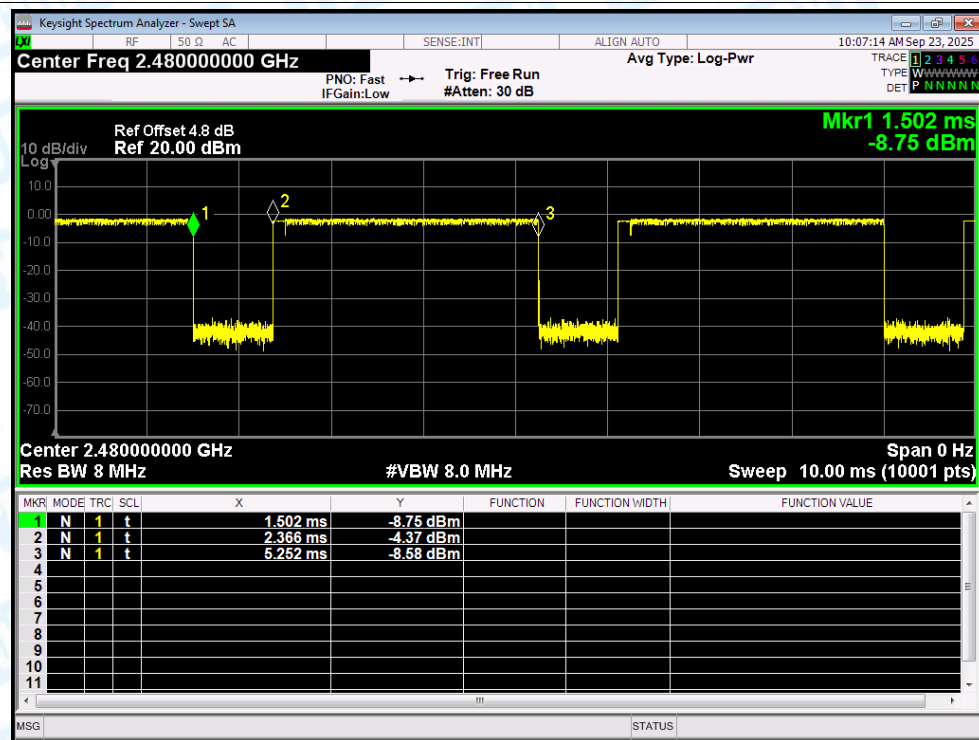
Duty Cycle NVNT 2-DH5 2402MHz Ant1



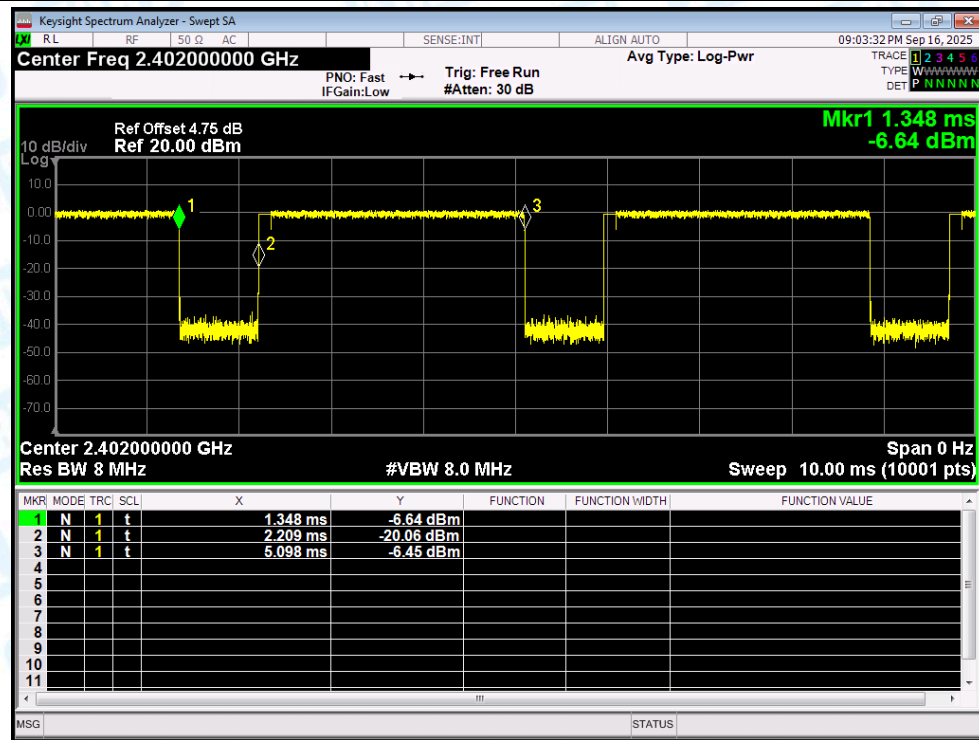
Duty Cycle NVNT 2-DH5 2441MHz Ant1



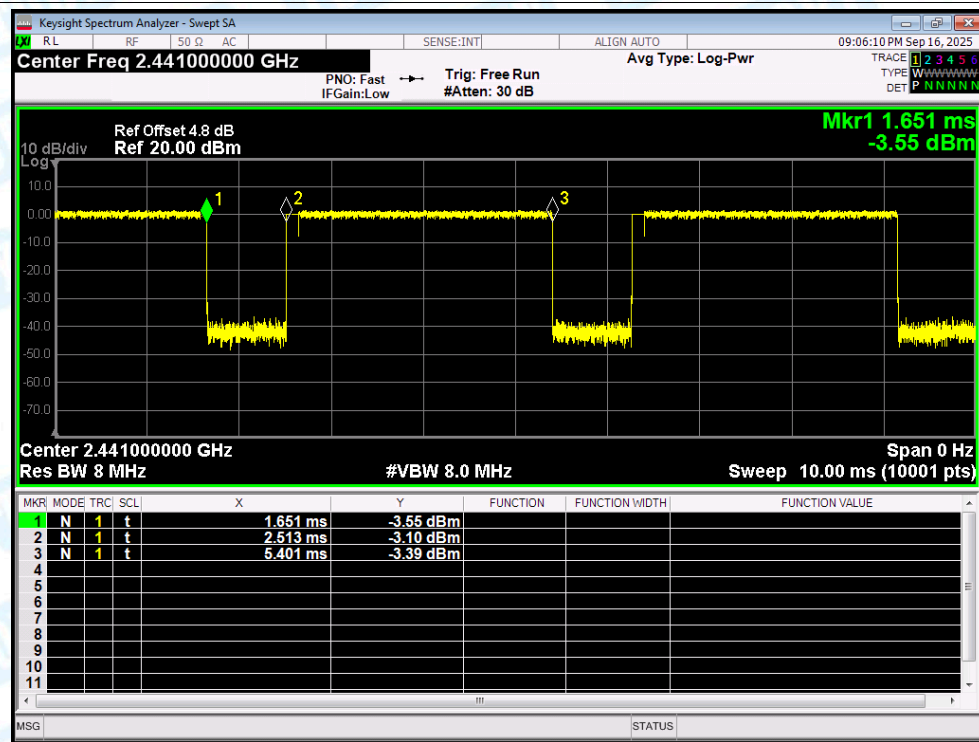
Duty Cycle NVNT 2-DH5 2480MHz Ant1

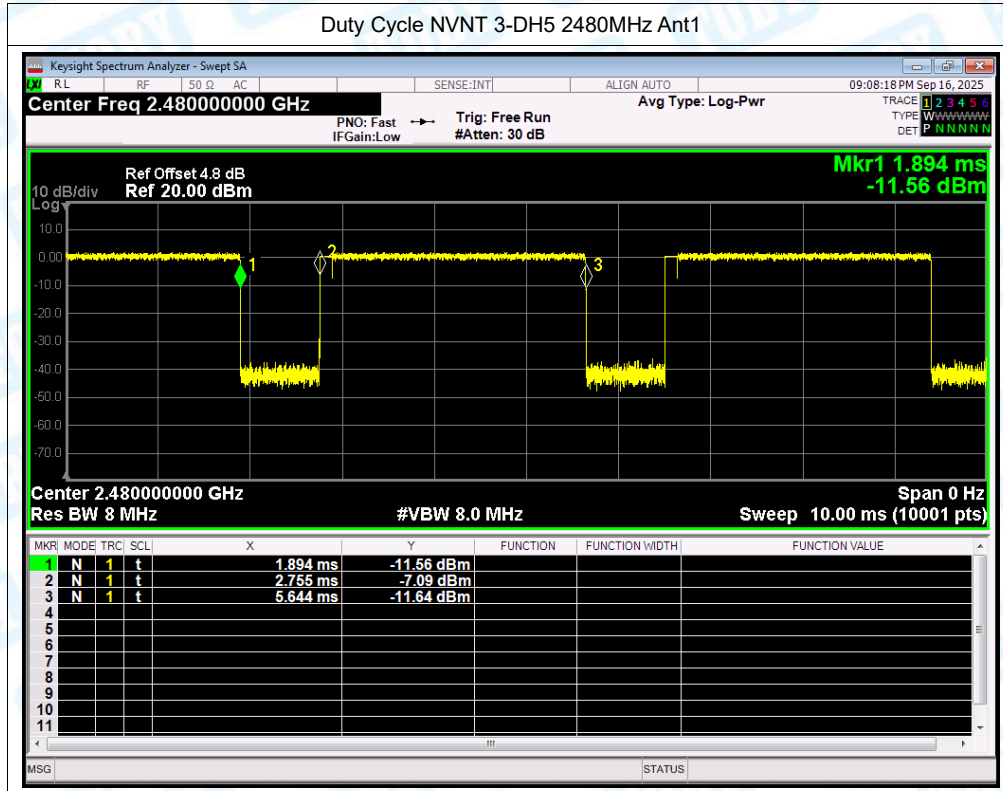


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



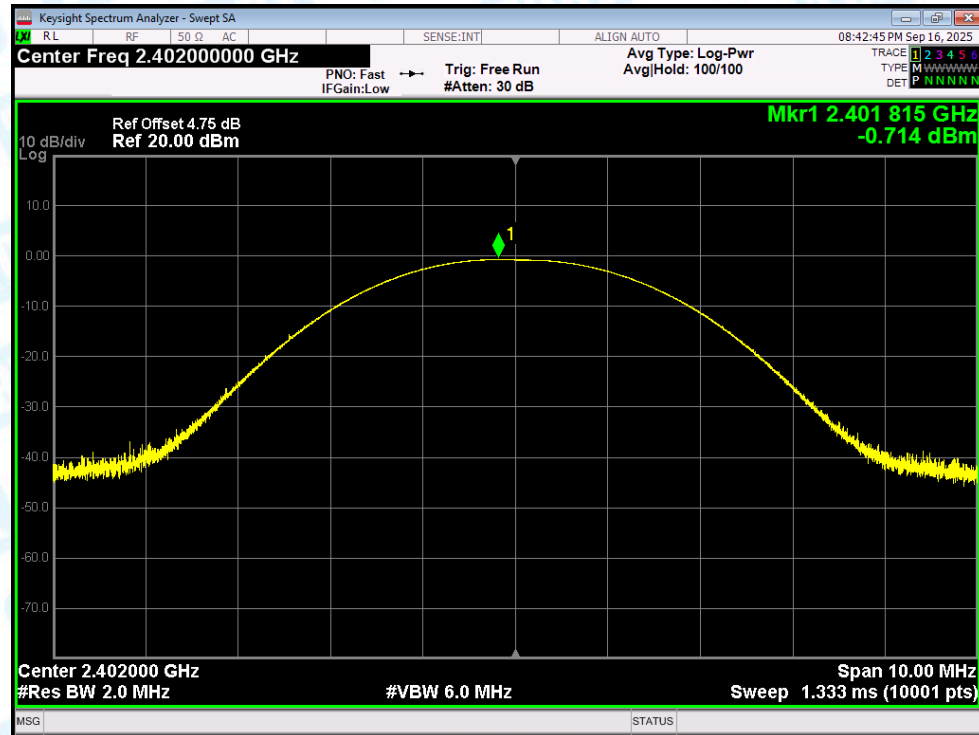


3. Maximum Conducted Output Power

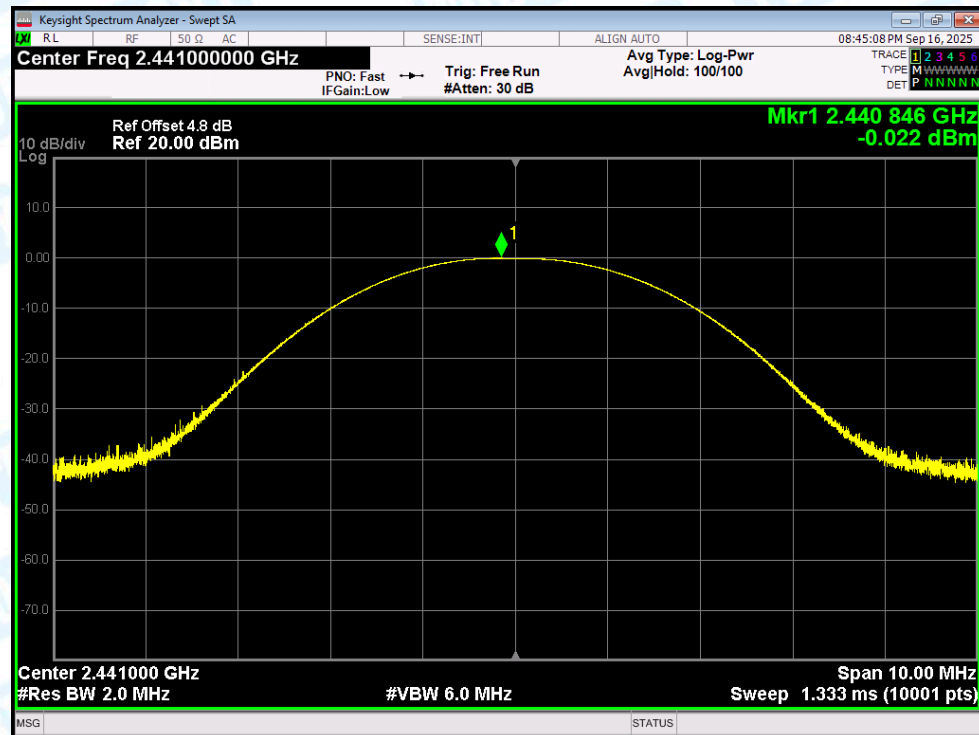
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.714	21	Pass
NVNT	1-DH5	2441	Ant1	-0.022	21	Pass
NVNT	1-DH5	2480	Ant1	0.243	21	Pass
NVNT	2-DH5	2402	Ant1	0.233	21	Pass
NVNT	2-DH5	2441	Ant1	0.889	21	Pass
NVNT	2-DH5	2480	Ant1	1.164	21	Pass
NVNT	3-DH5	2402	Ant1	0.652	21	Pass
NVNT	3-DH5	2441	Ant1	1.309	21	Pass
NVNT	3-DH5	2480	Ant1	1.549	21	Pass

Test Graphs

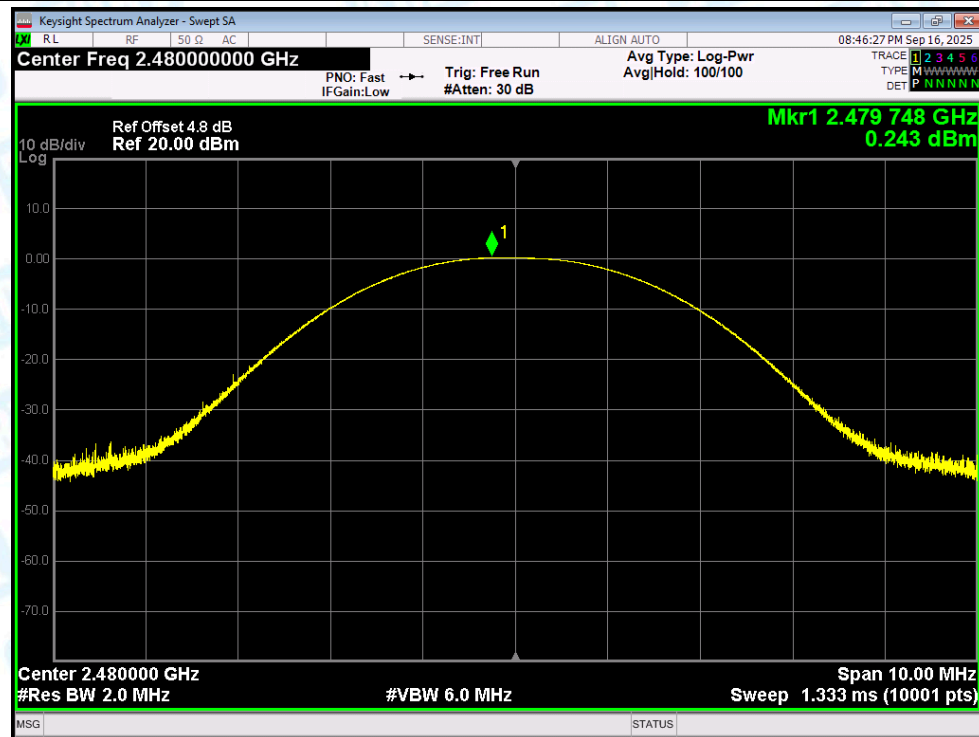
Power NVNT 1-DH5 2402MHz Ant1



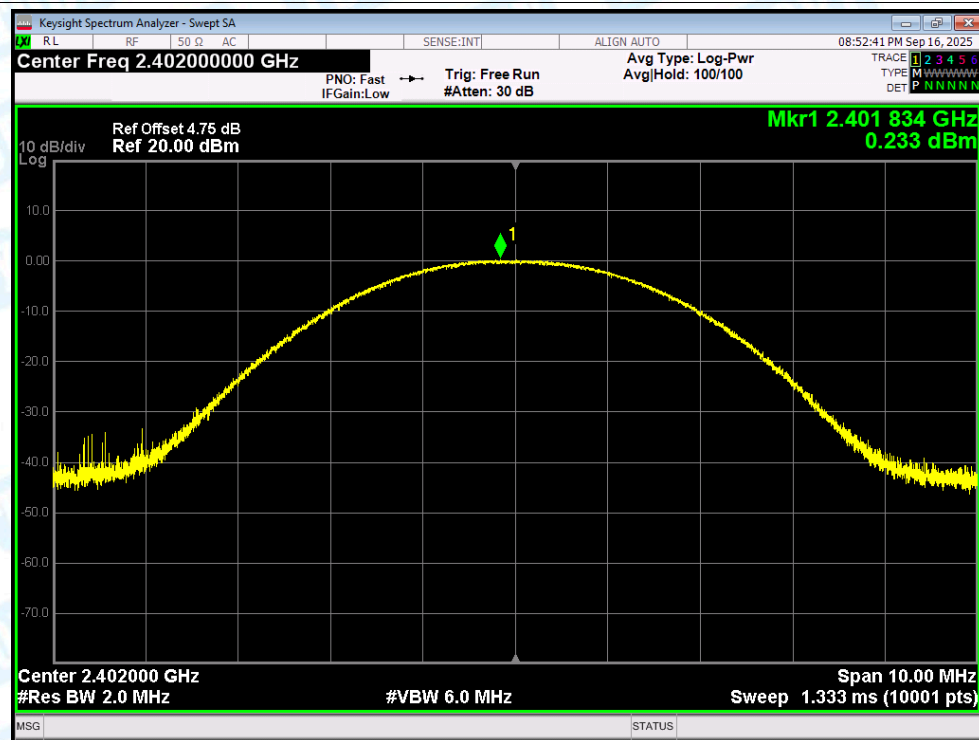
Power NVNT 1-DH5 2441MHz Ant1



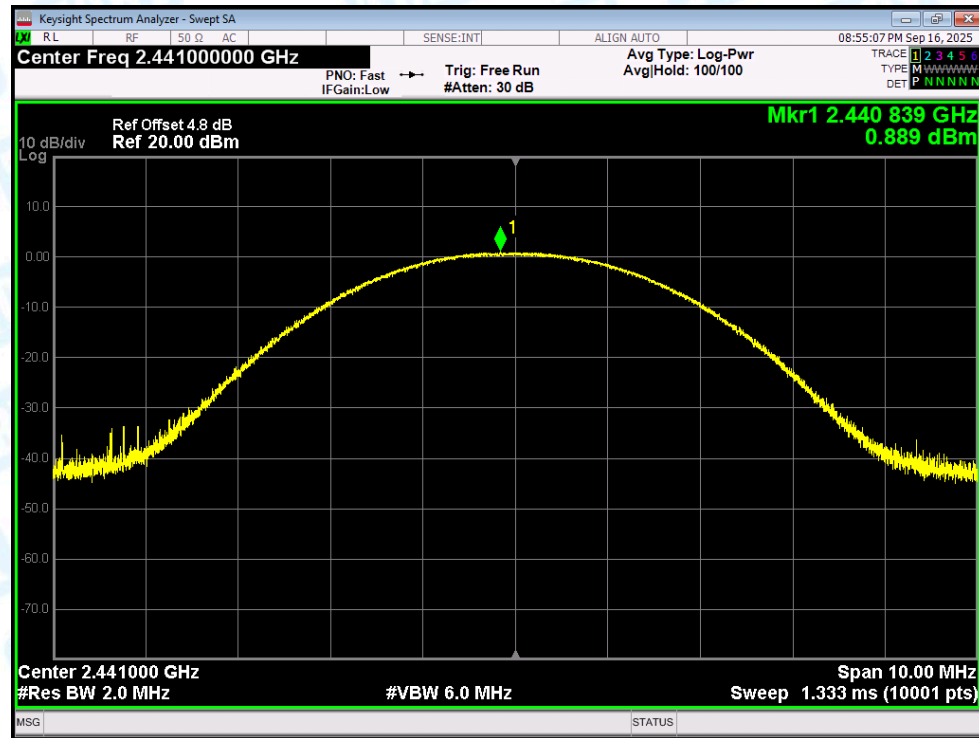
Power NVNT 1-DH5 2480MHz Ant1



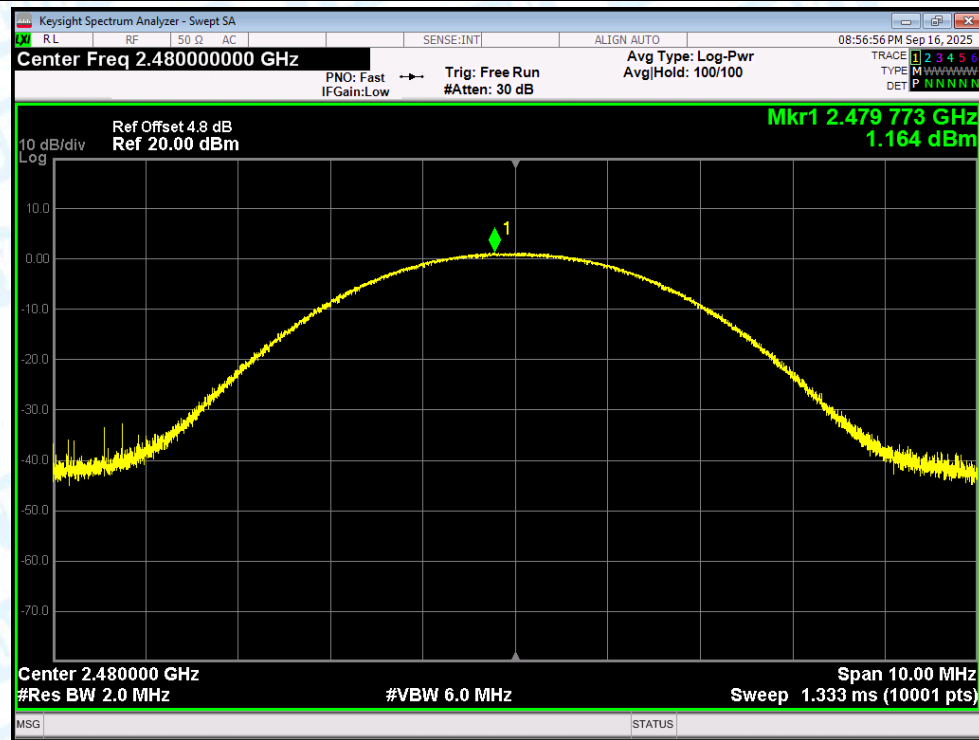
Power NVNT 2-DH5 2402MHz Ant1



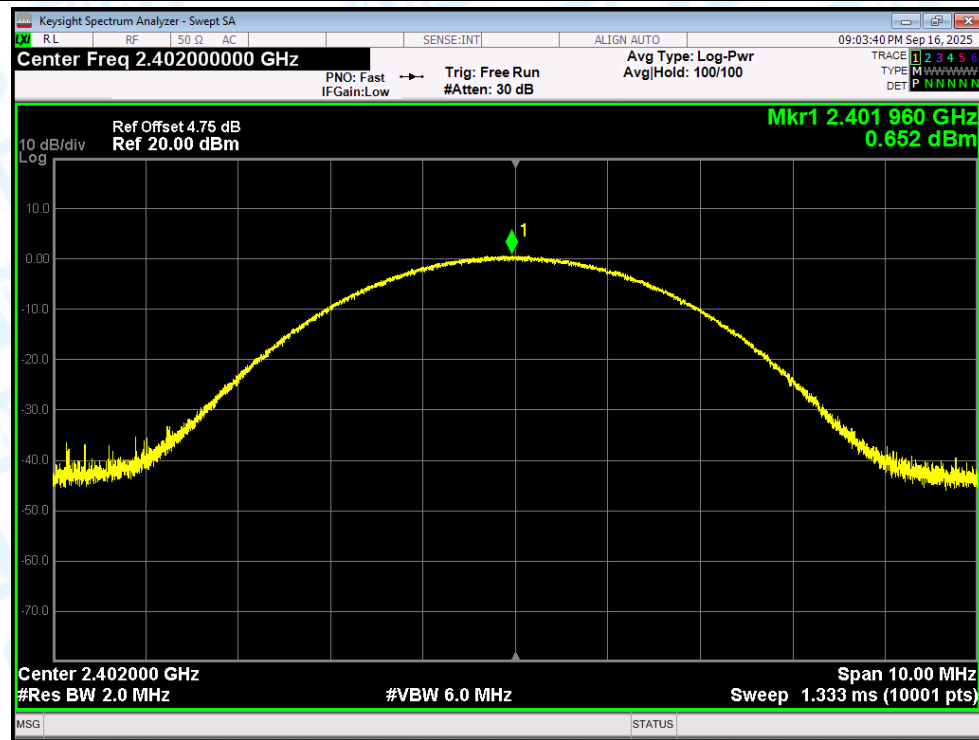
Power NVNT 2-DH5 2441MHz Ant1



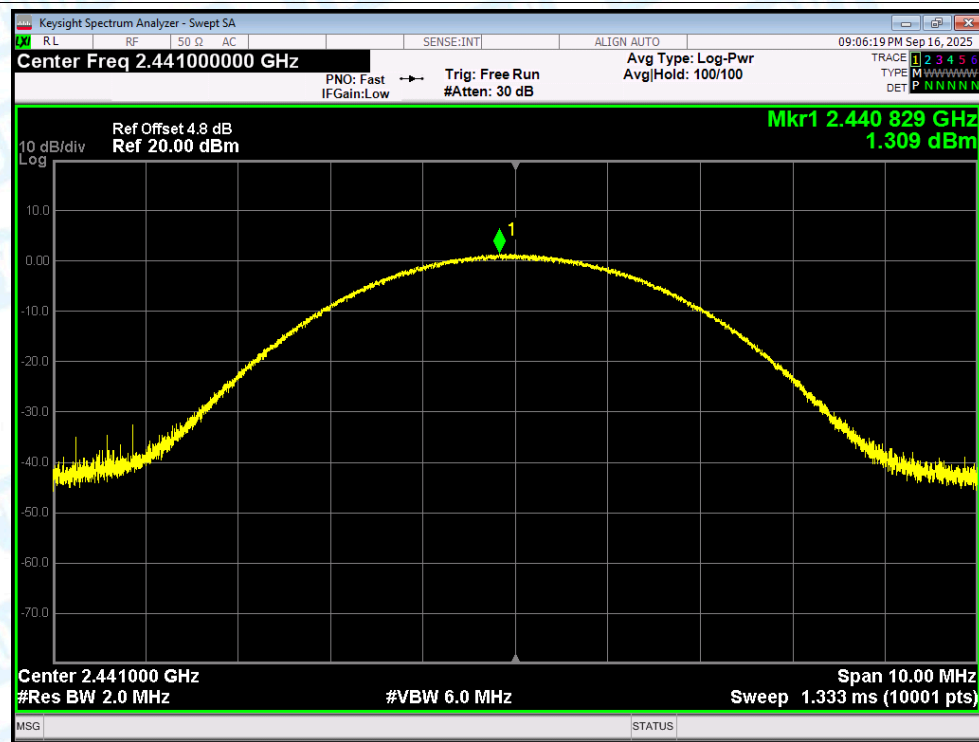
Power NVNT 2-DH5 2480MHz Ant1

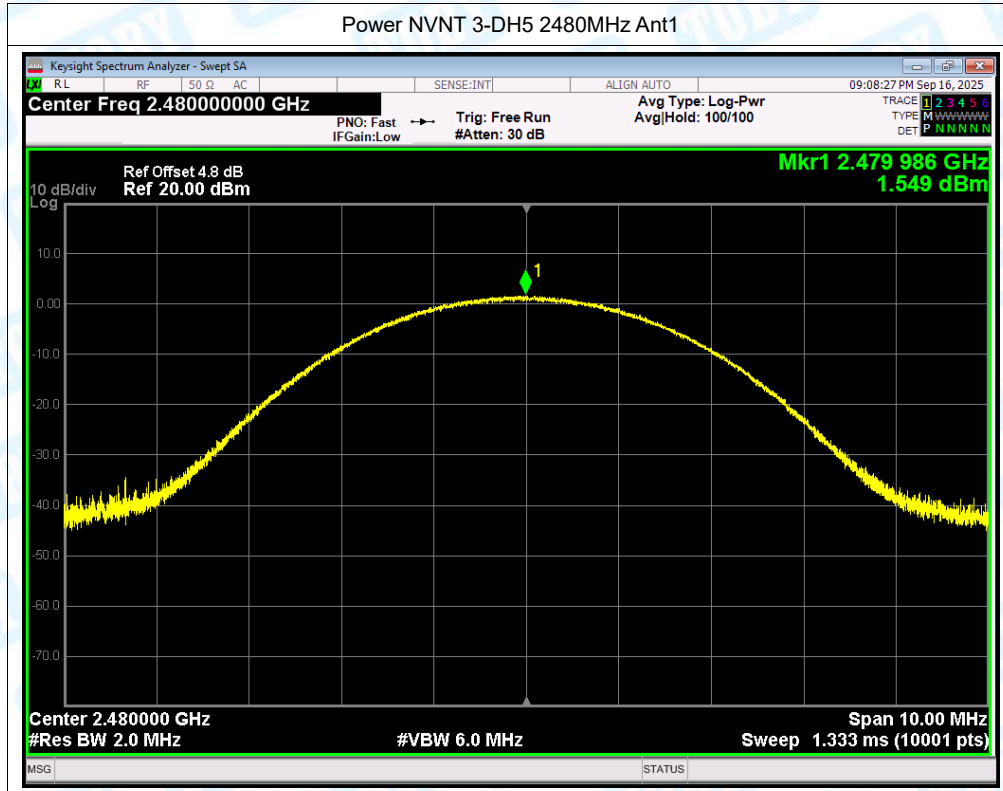


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



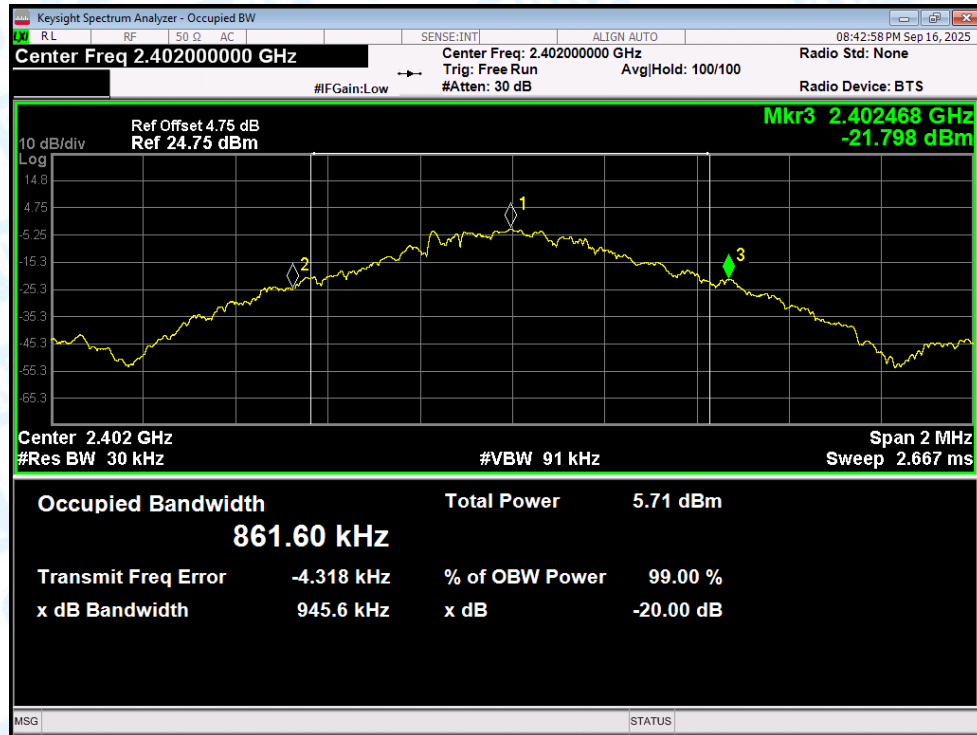


4. -20dB Bandwidth

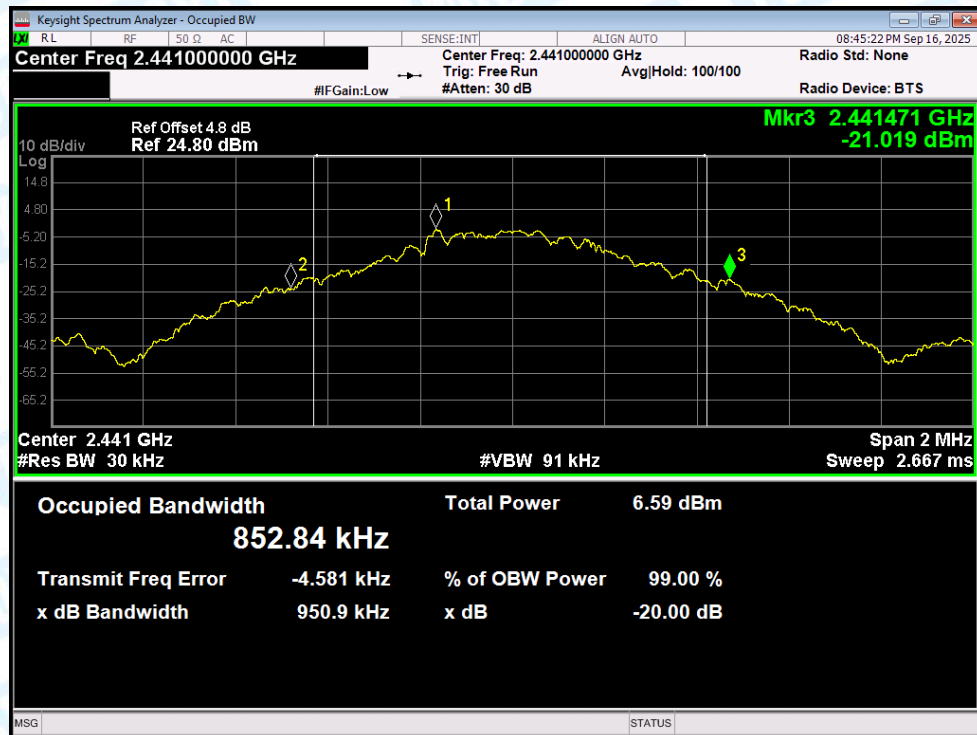
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.95	Pass
NVNT	1-DH5	2441	Ant1	0.95	Pass
NVNT	1-DH5	2480	Ant1	0.95	Pass
NVNT	2-DH5	2402	Ant1	1.32	Pass
NVNT	2-DH5	2441	Ant1	1.31	Pass
NVNT	2-DH5	2480	Ant1	1.3	Pass
NVNT	3-DH5	2402	Ant1	1.3	Pass
NVNT	3-DH5	2441	Ant1	1.29	Pass
NVNT	3-DH5	2480	Ant1	1.3	Pass

Test Graphs

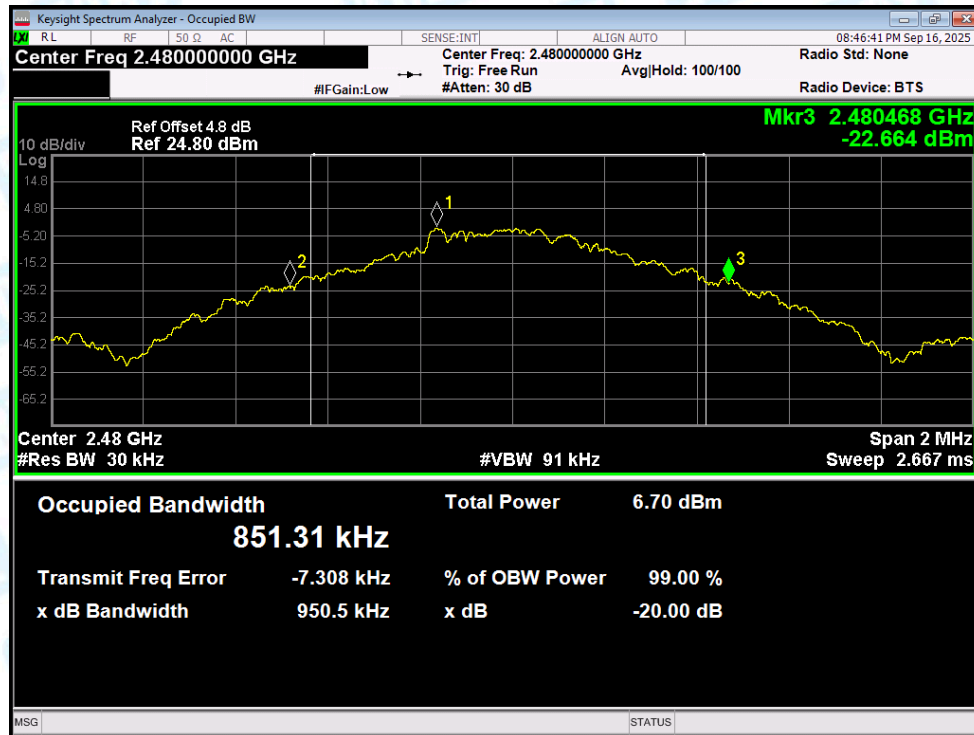
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



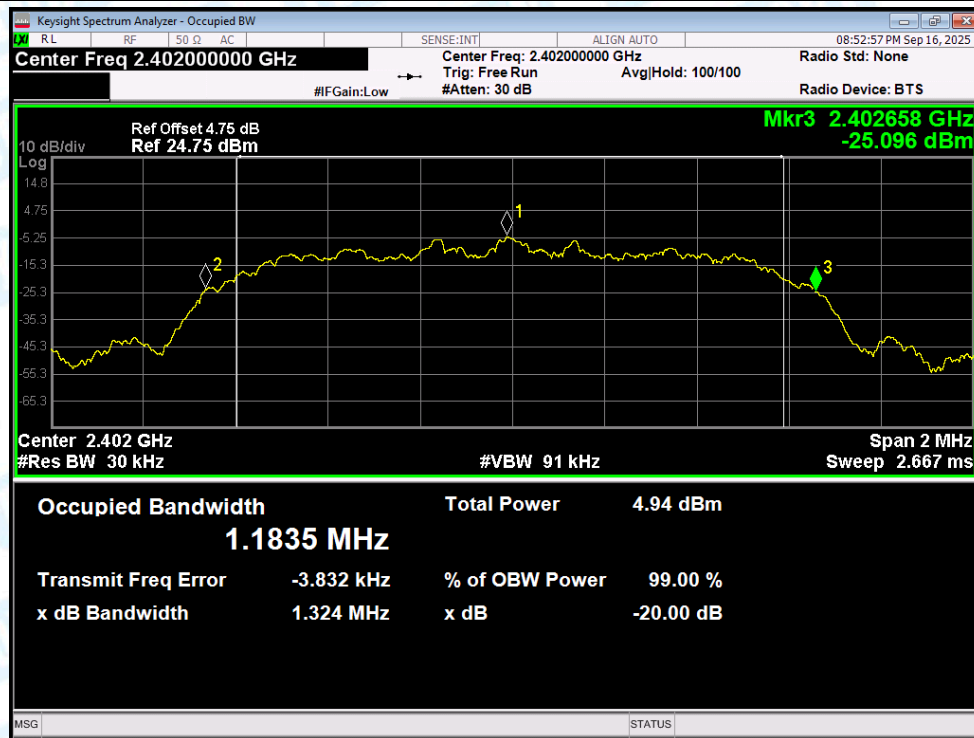
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



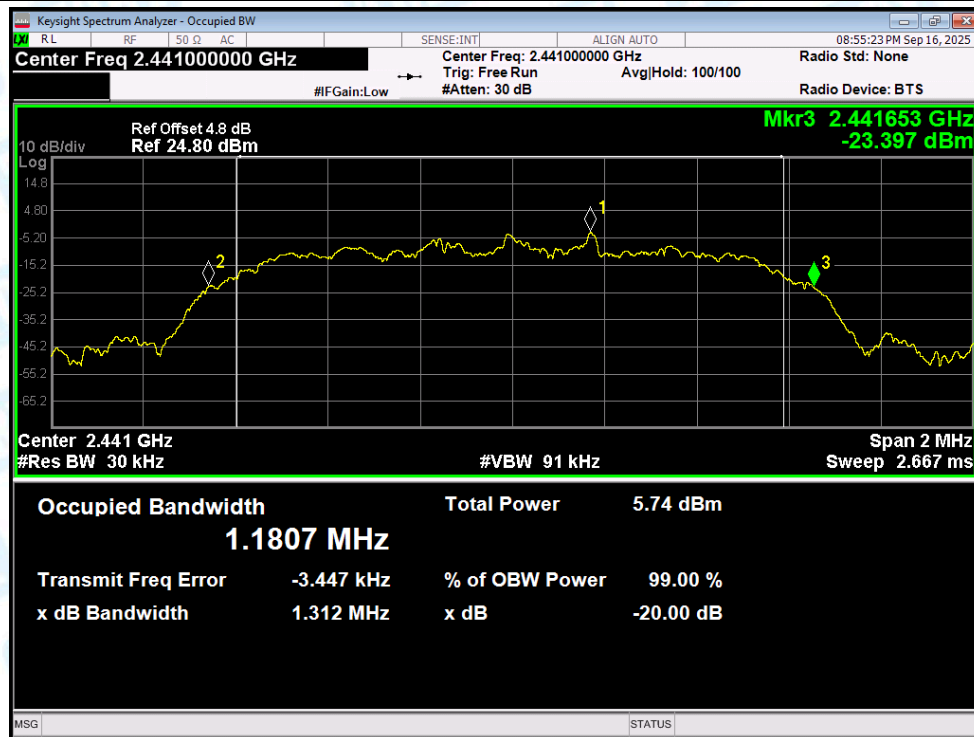
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



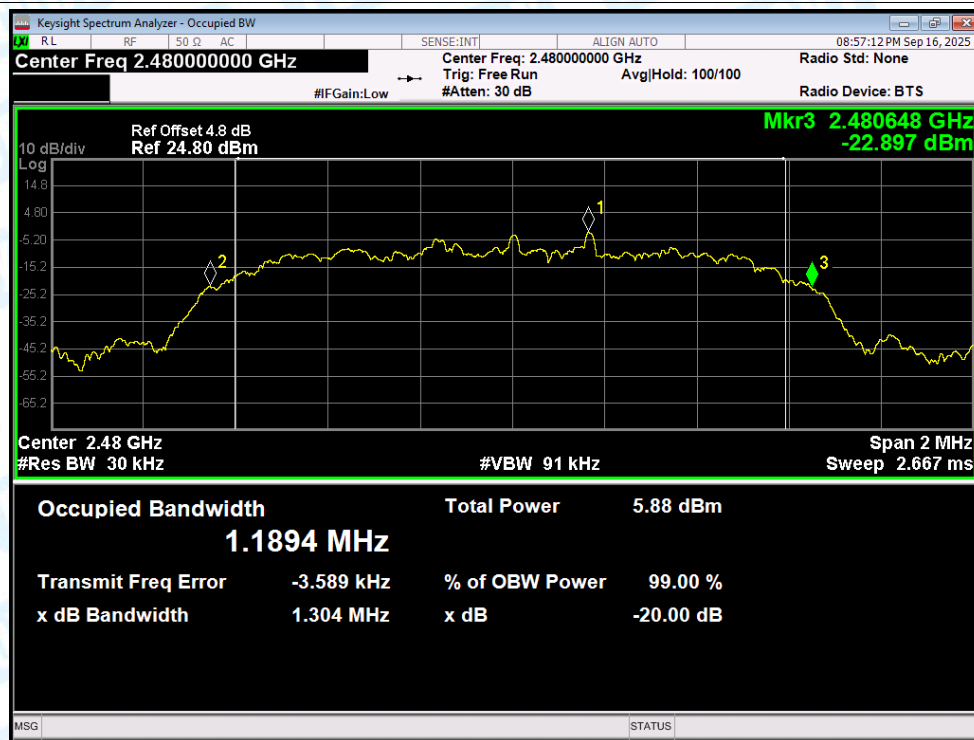
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



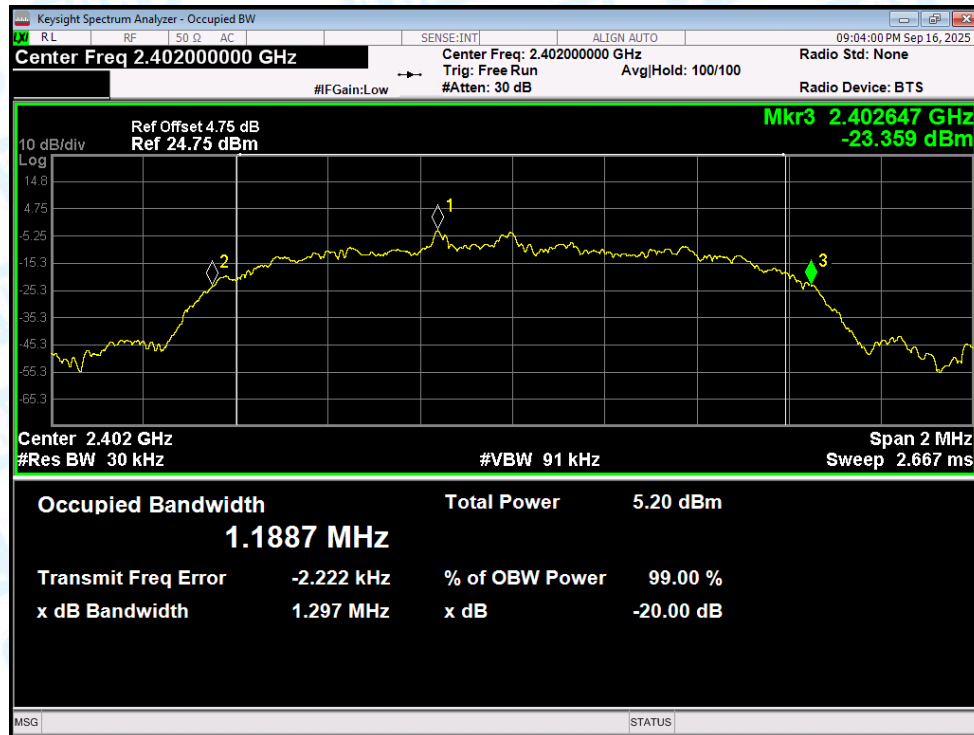
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



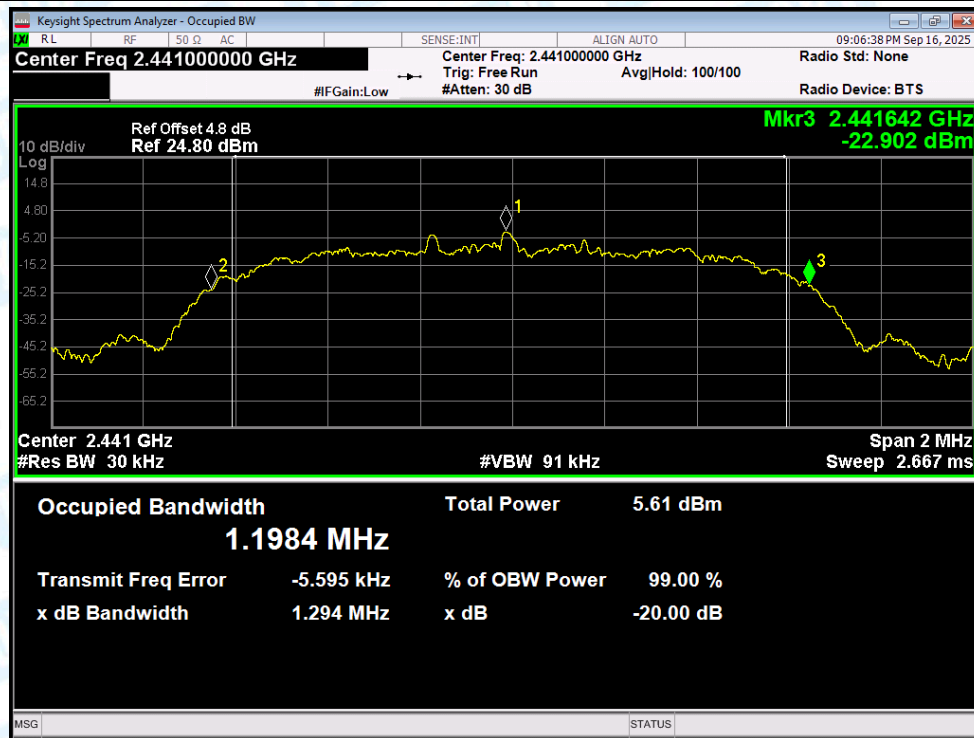
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

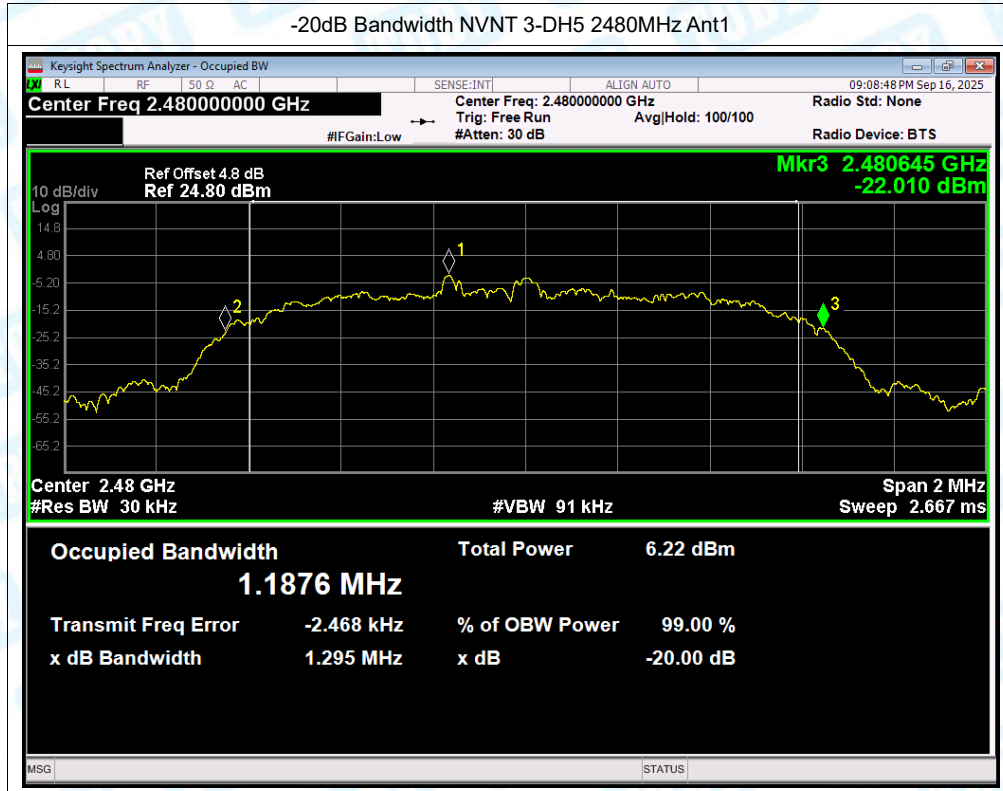


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



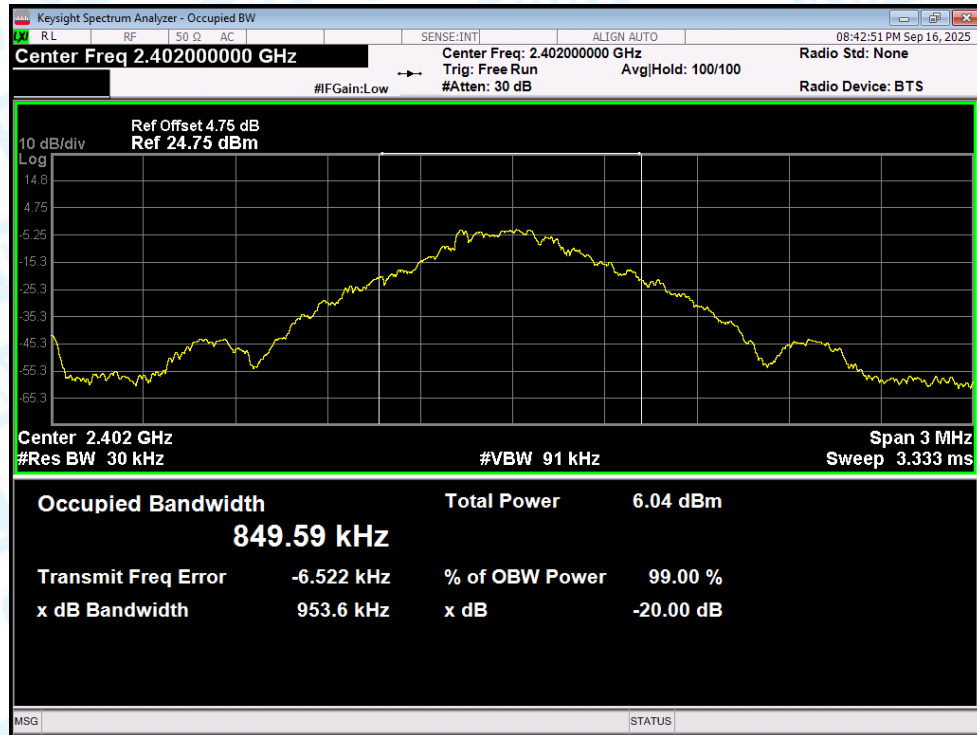


5. Occupied Channel Bandwidth

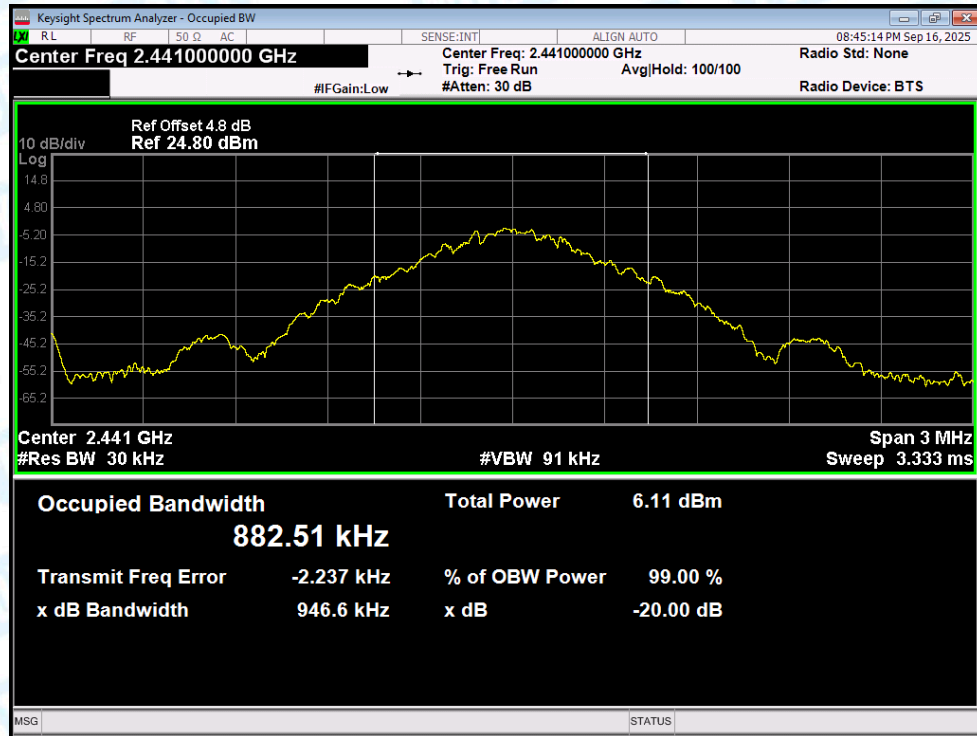
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.85
NVNT	1-DH5	2441	Ant1	0.883
NVNT	1-DH5	2480	Ant1	0.846
NVNT	2-DH5	2402	Ant1	1.185
NVNT	2-DH5	2441	Ant1	1.185
NVNT	2-DH5	2480	Ant1	1.171
NVNT	3-DH5	2402	Ant1	1.177
NVNT	3-DH5	2441	Ant1	1.189
NVNT	3-DH5	2480	Ant1	1.197

Test Graphs

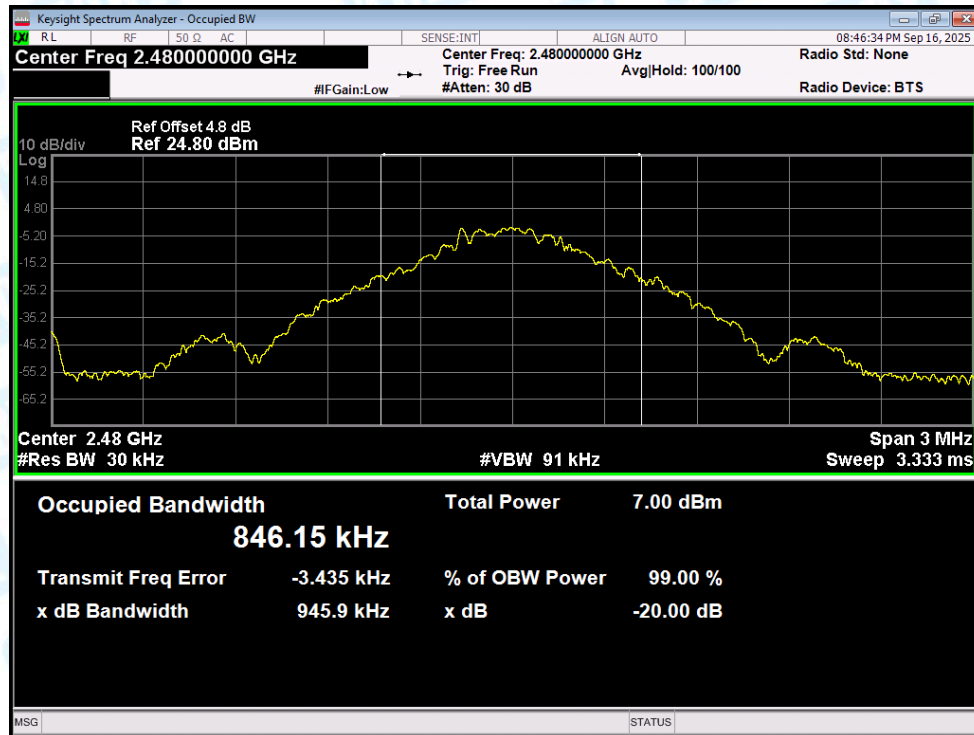
OBW NVNT 1-DH5 2402MHz Ant1



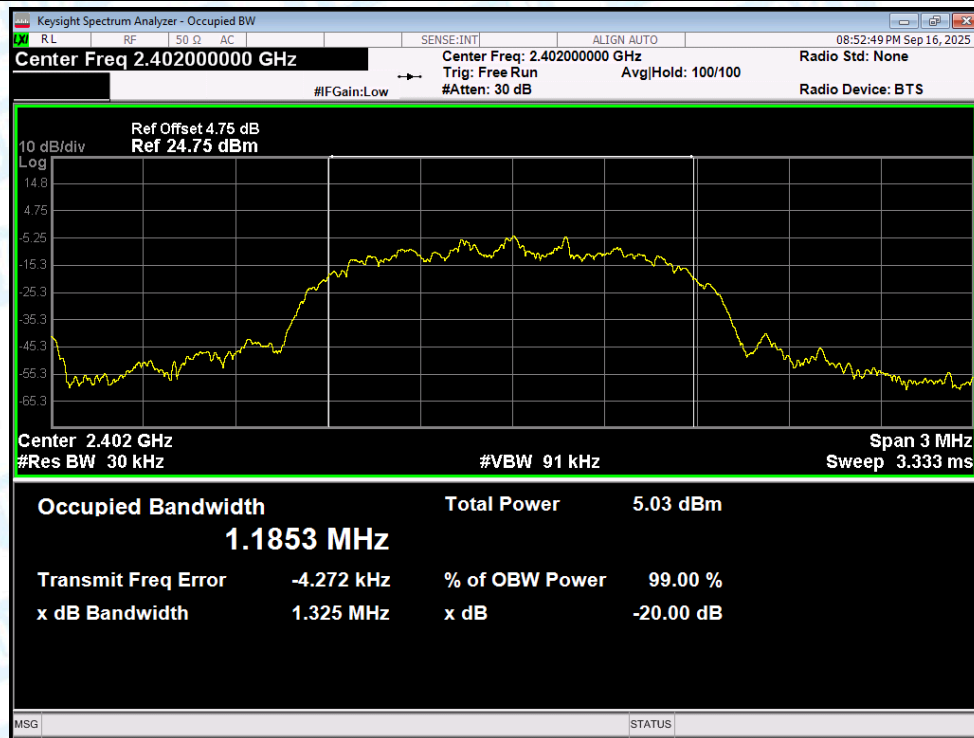
OBW NVNT 1-DH5 2441MHz Ant1



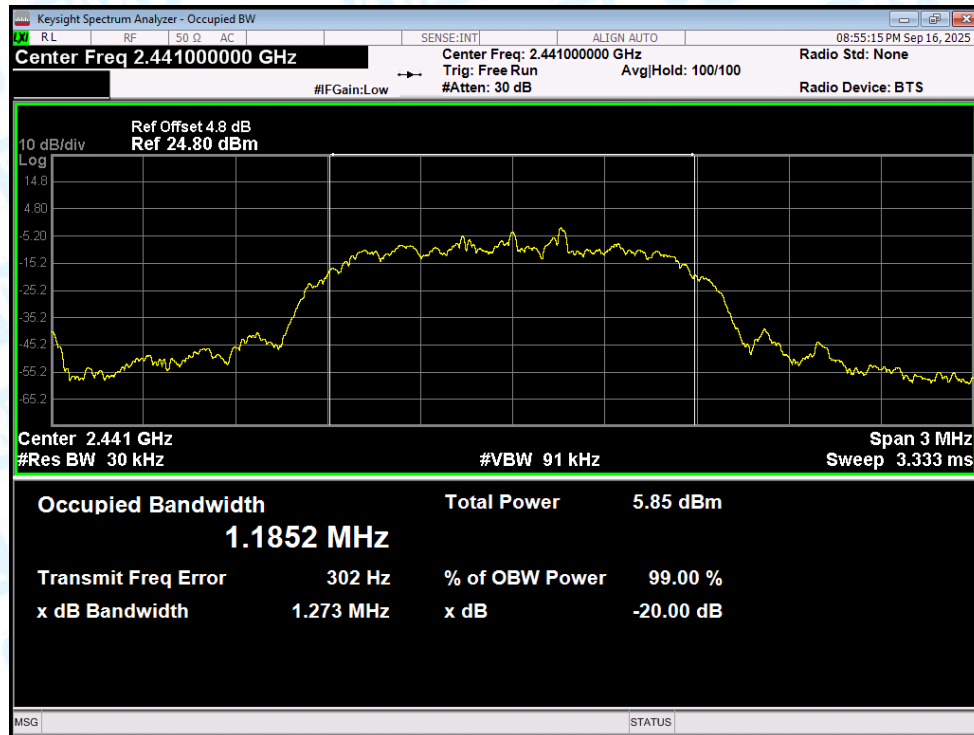
OBW NVNT 1-DH5 2480MHz Ant1



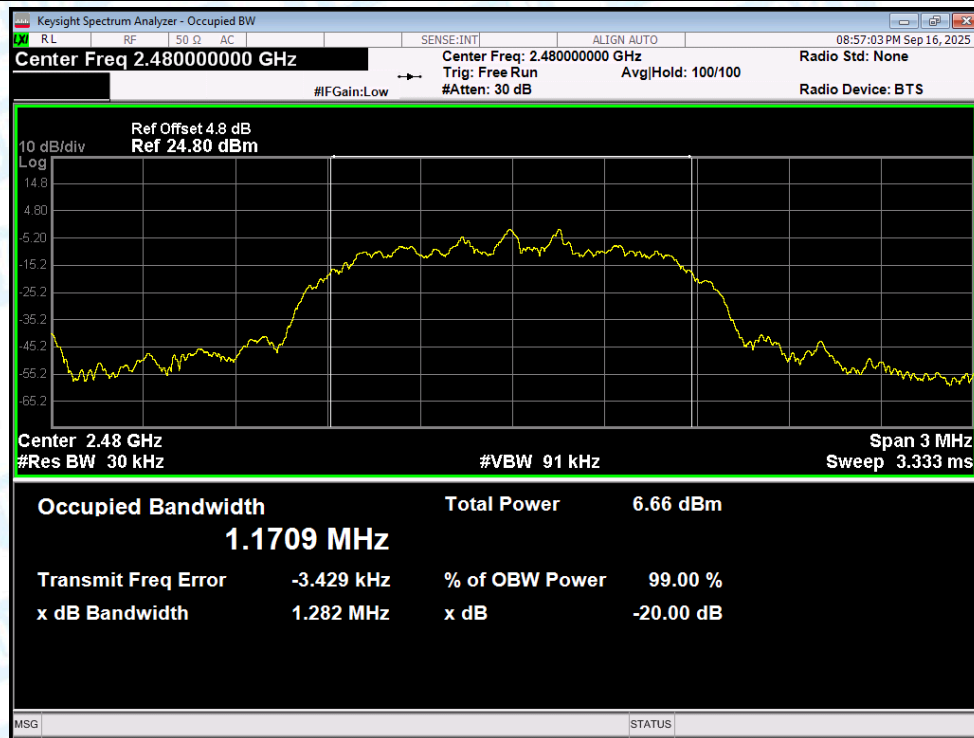
OBW NVNT 2-DH5 2402MHz Ant1



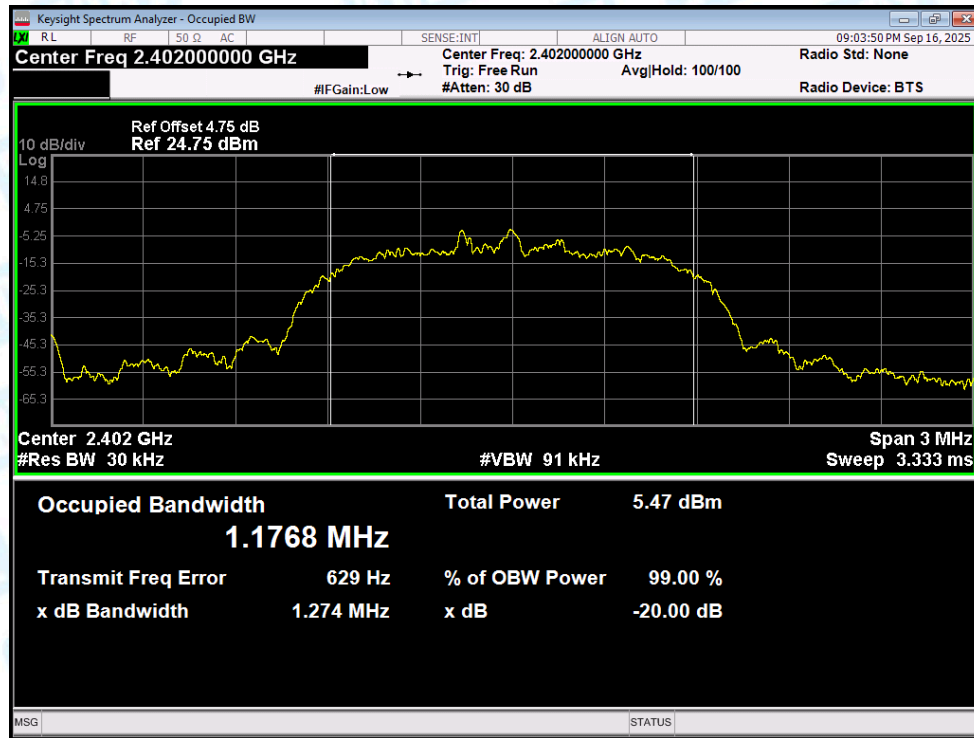
OBW NVNT 2-DH5 2441MHz Ant1



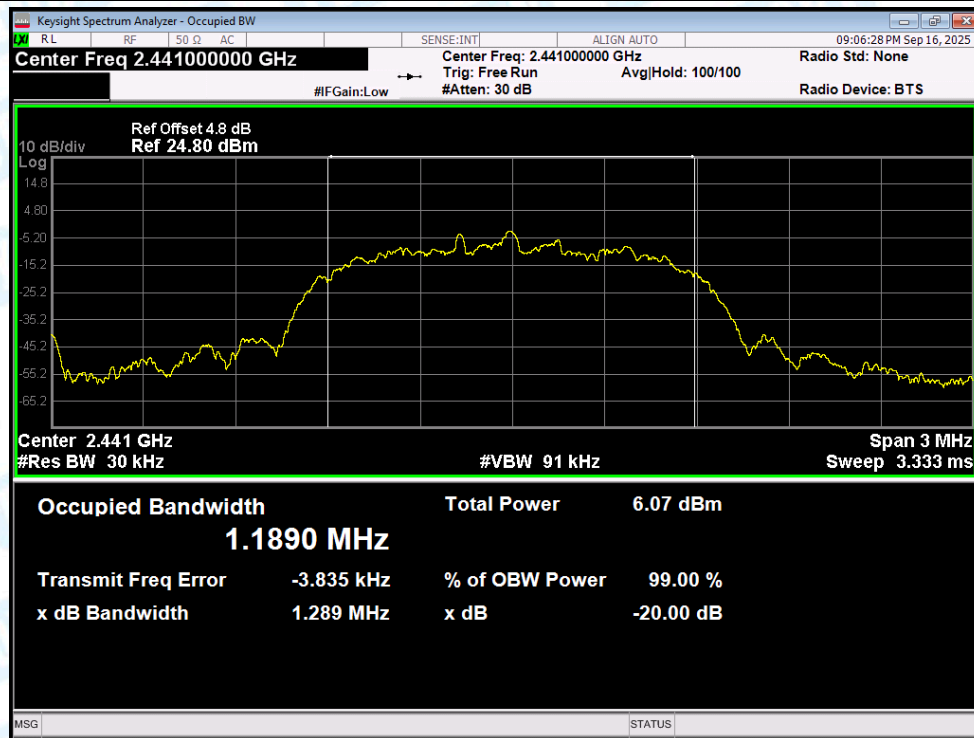
OBW NVNT 2-DH5 2480MHz Ant1

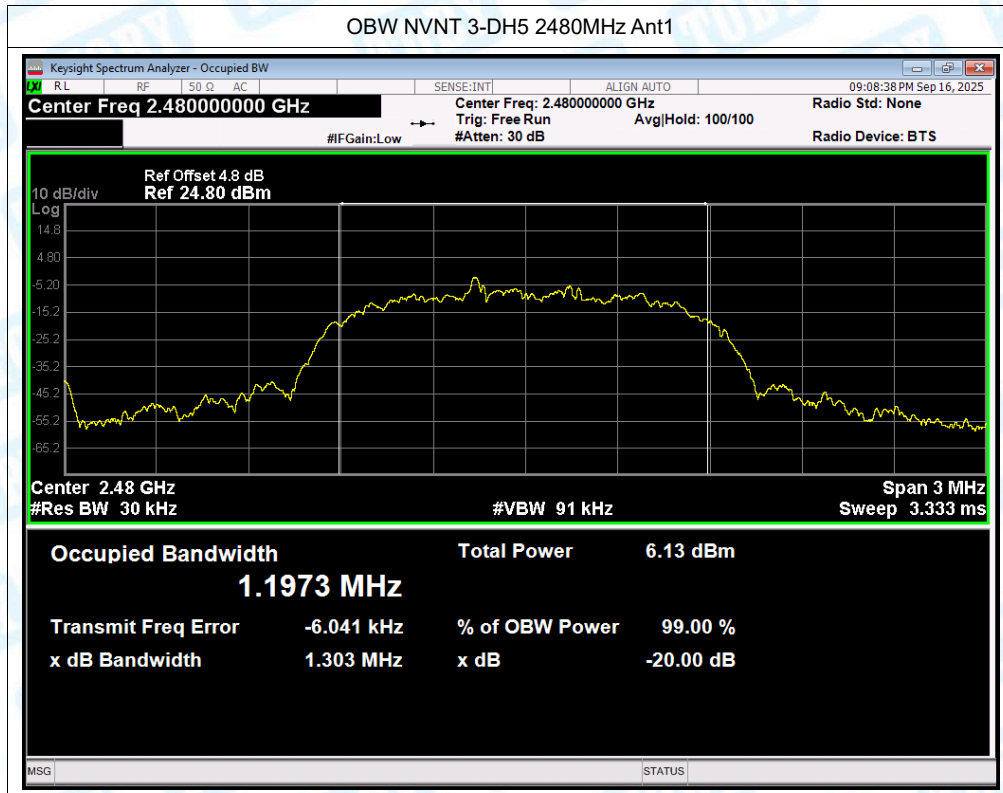


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



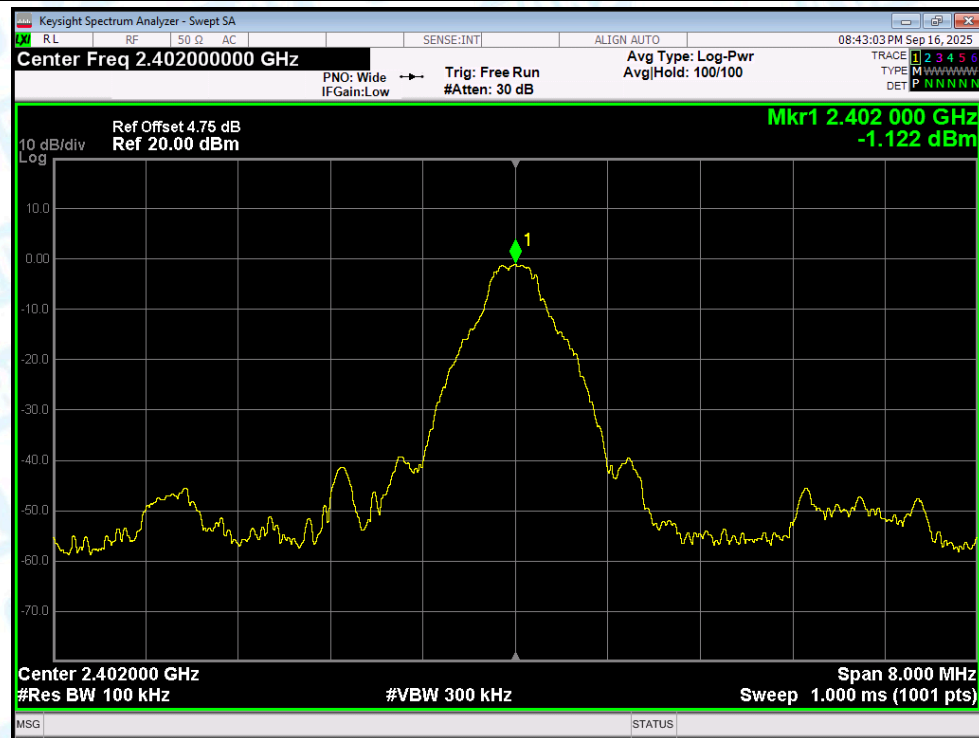


6. Band Edge

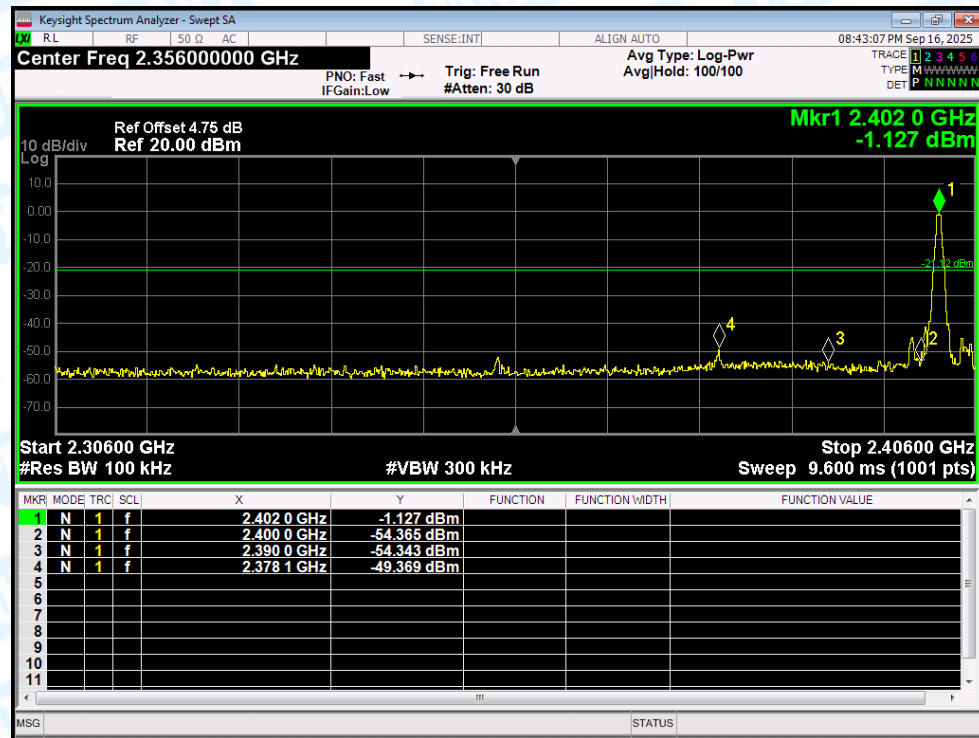
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-48.25	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-44.05	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.38	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-47.72	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.17	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-49.37	-20	Pass

Test Graphs

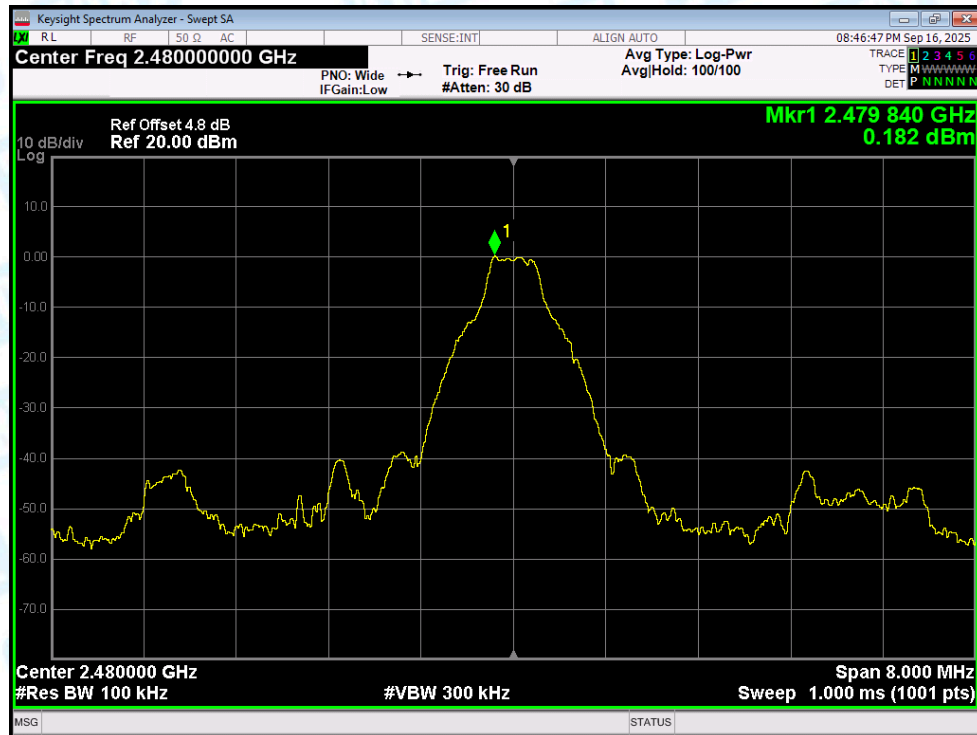
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



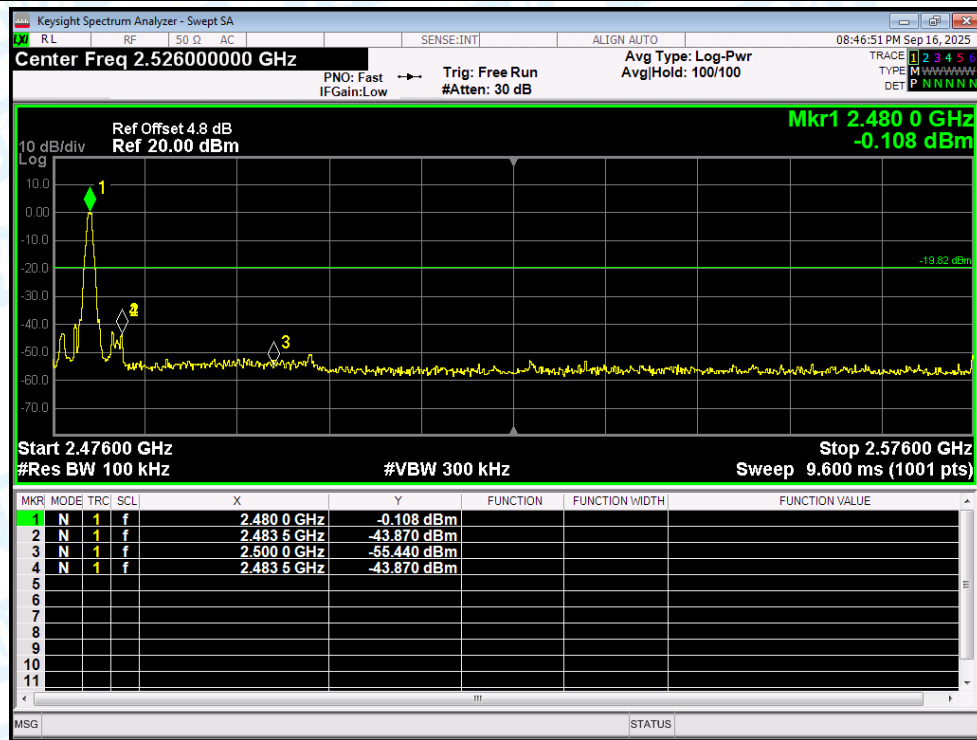
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



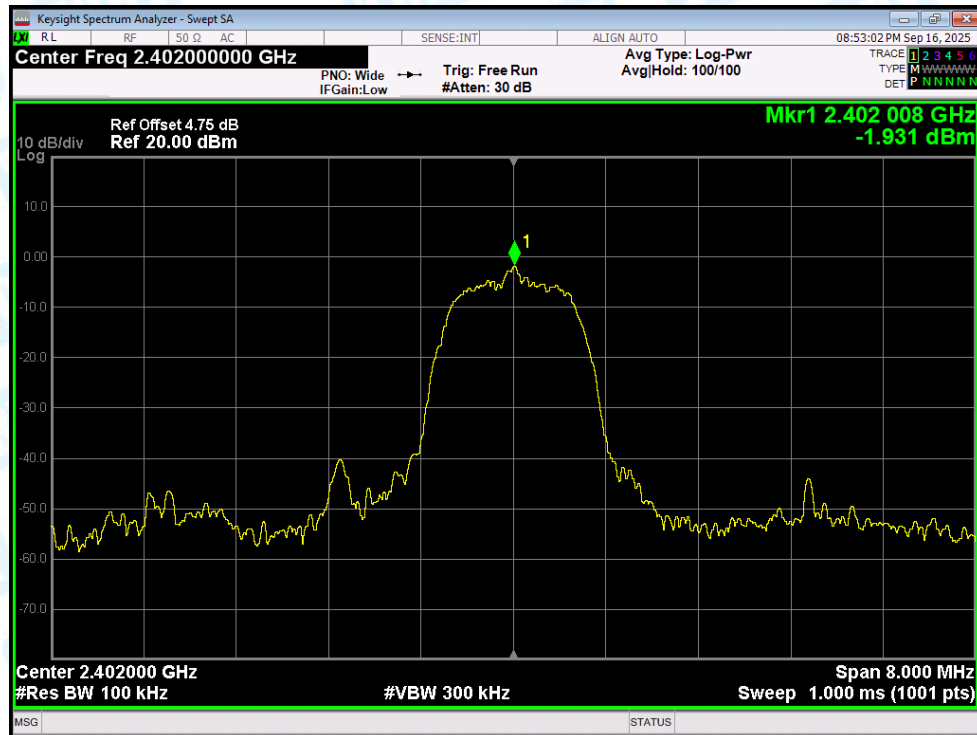
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



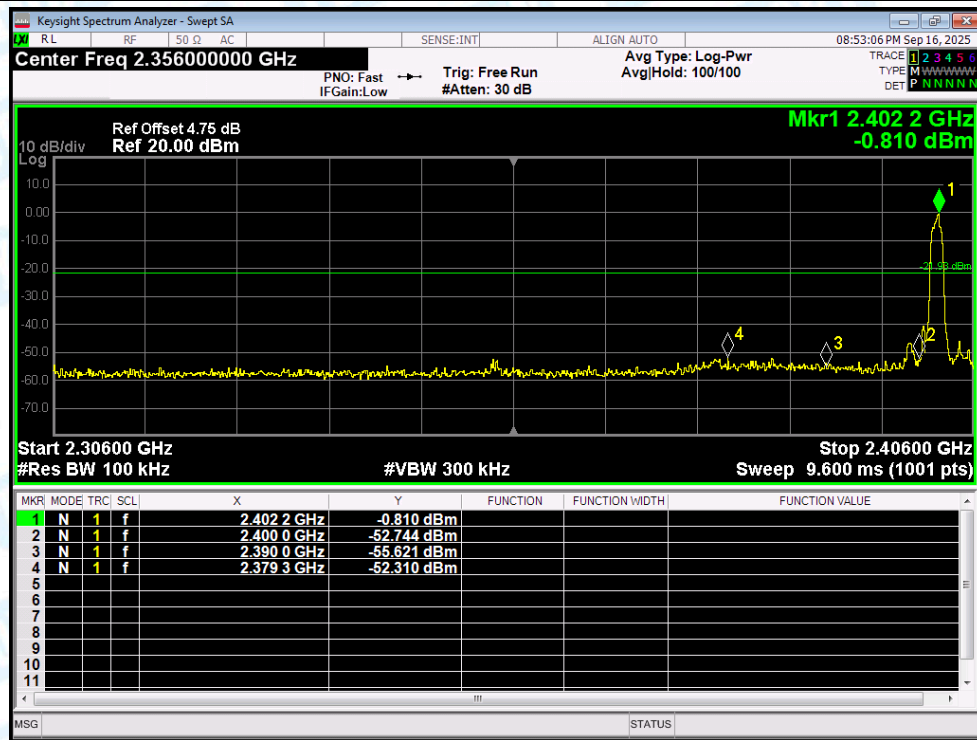
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



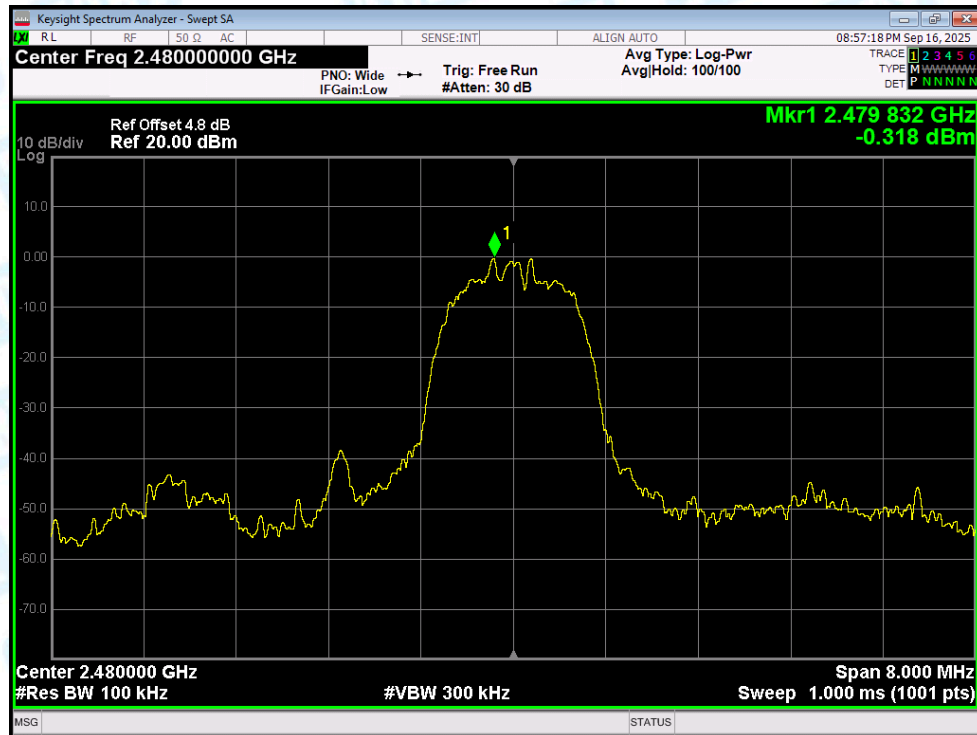
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



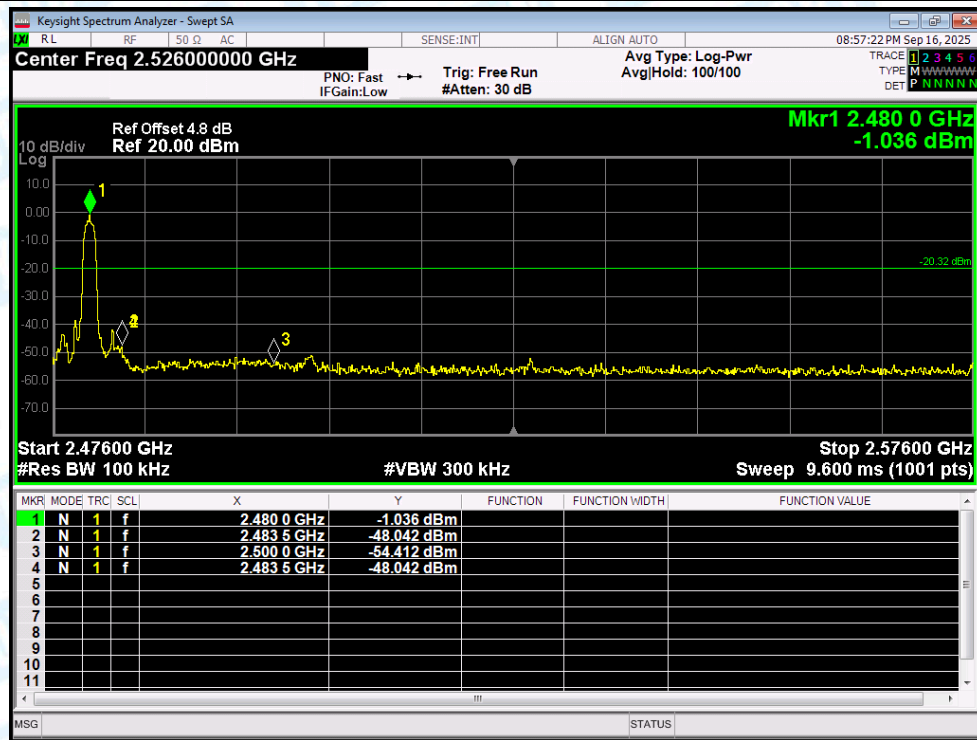
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



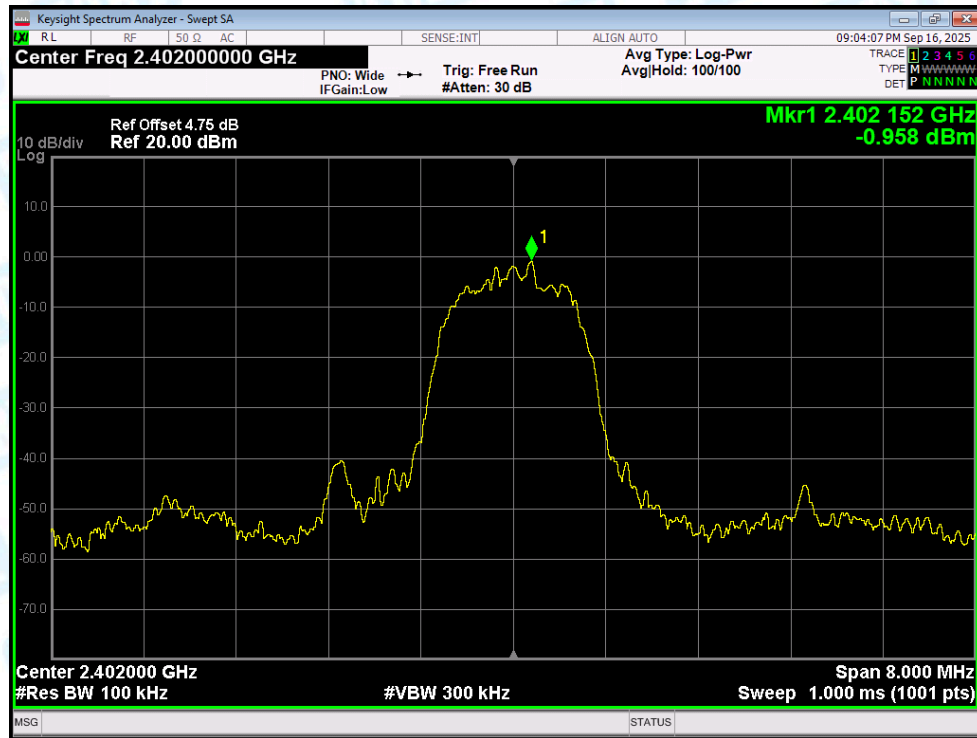
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



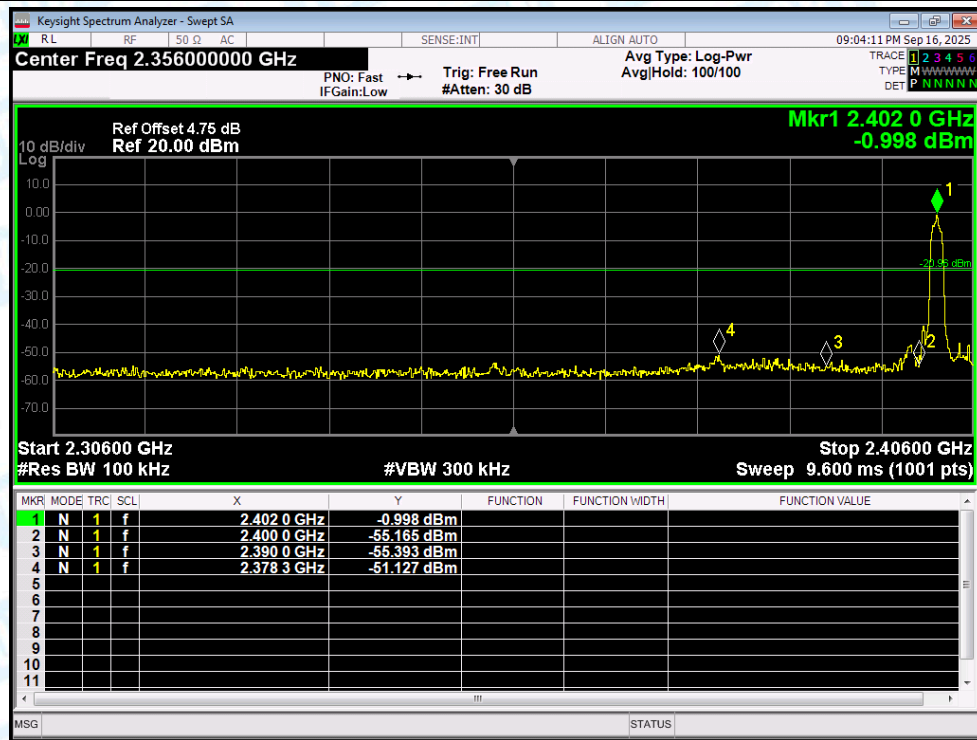
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



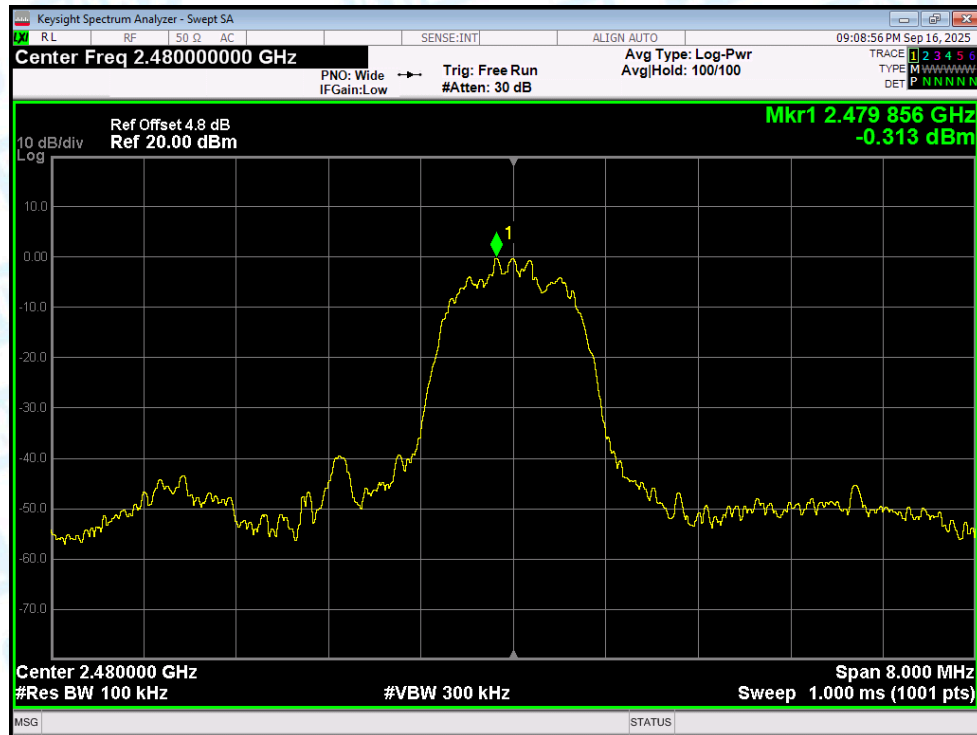
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



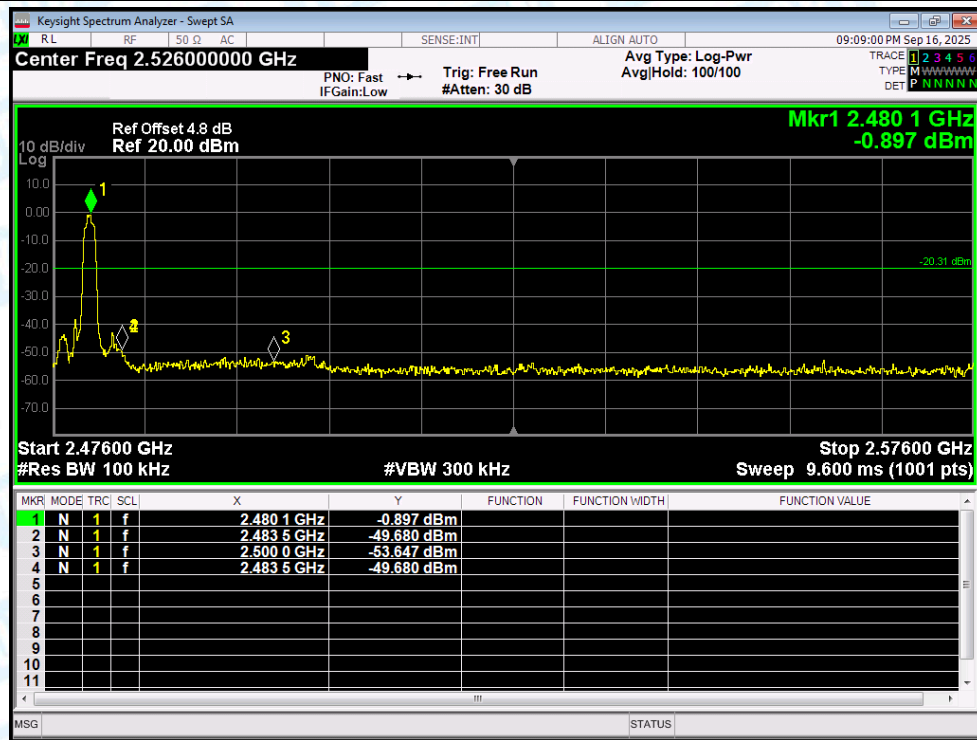
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

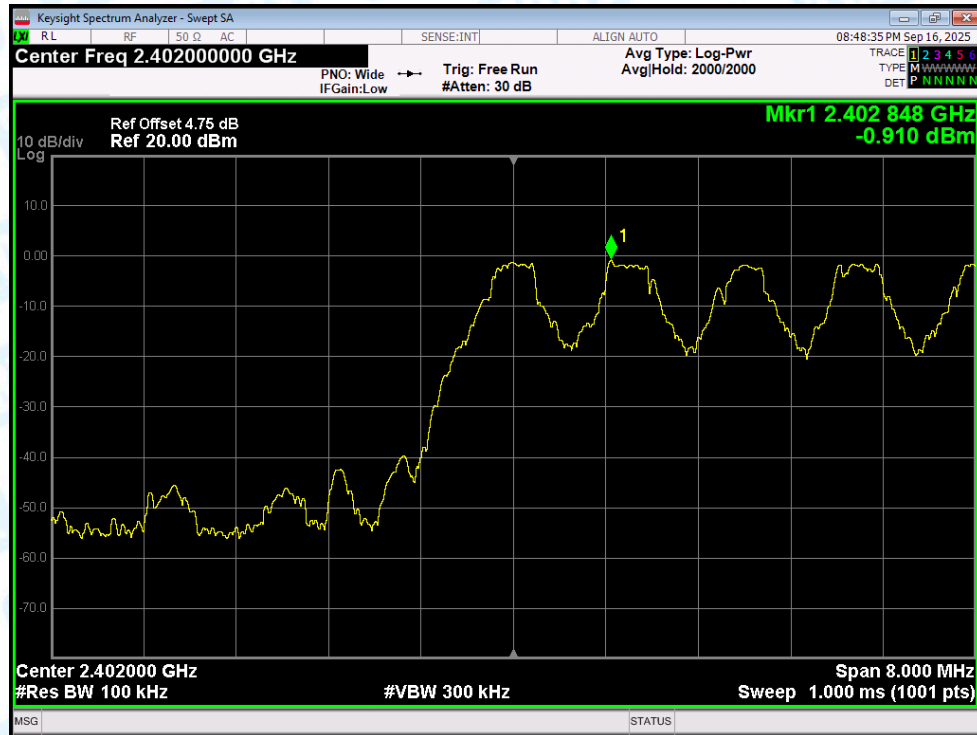


7. Band Edge(Hopping)

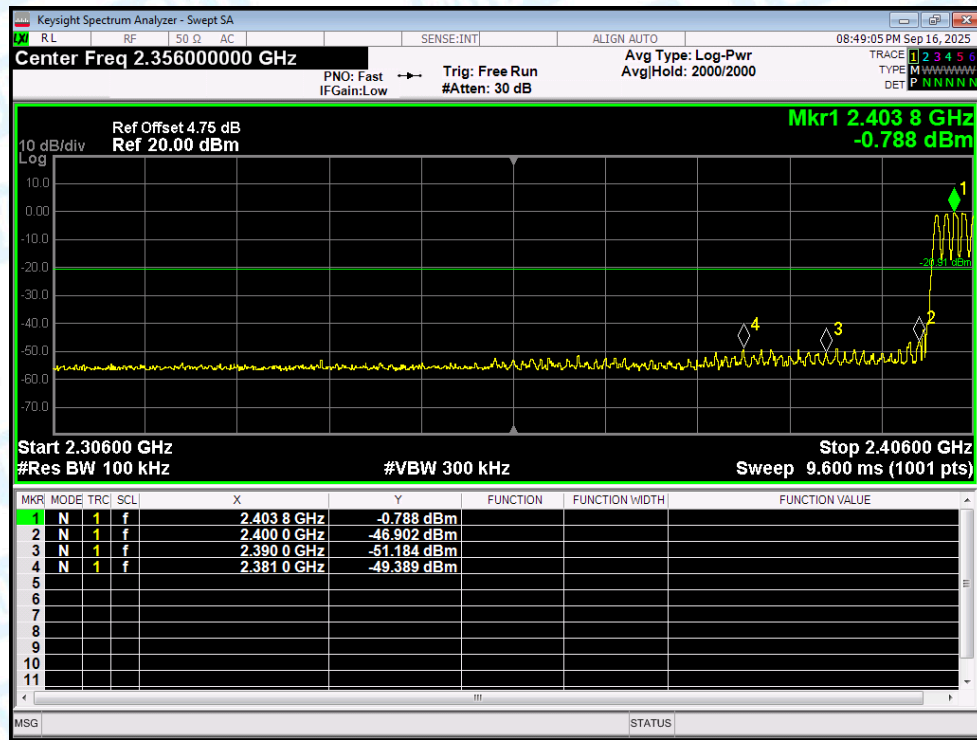
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-48.48	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-44.47	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-48.55	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-48.71	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-49.36	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-49.05	-20	Pass

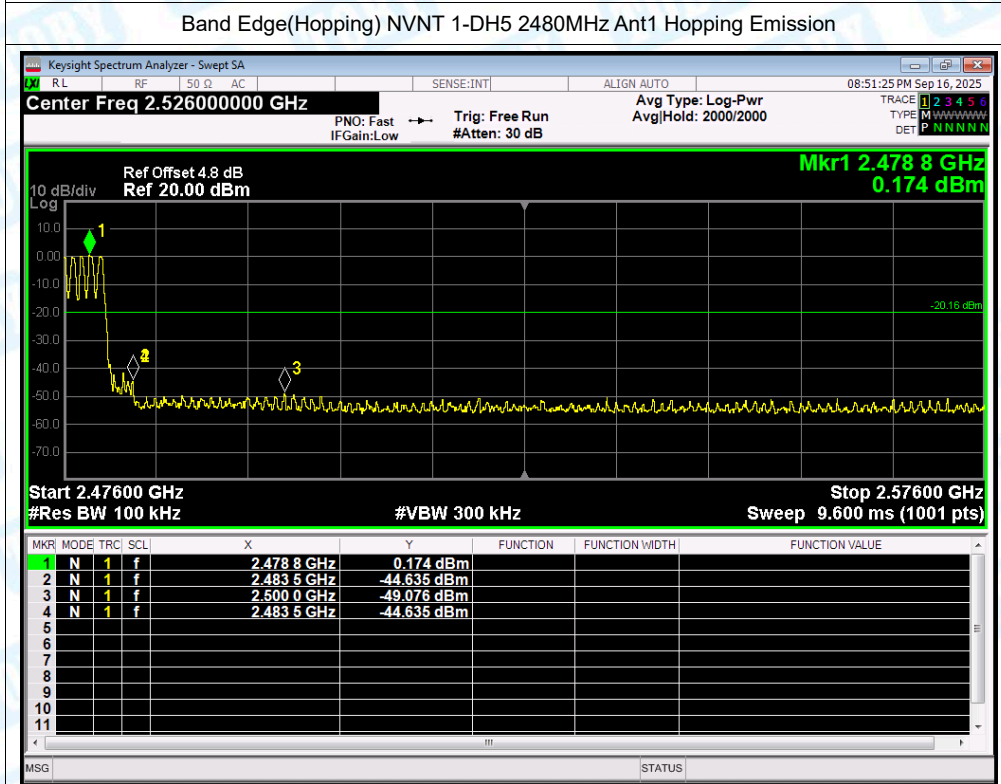
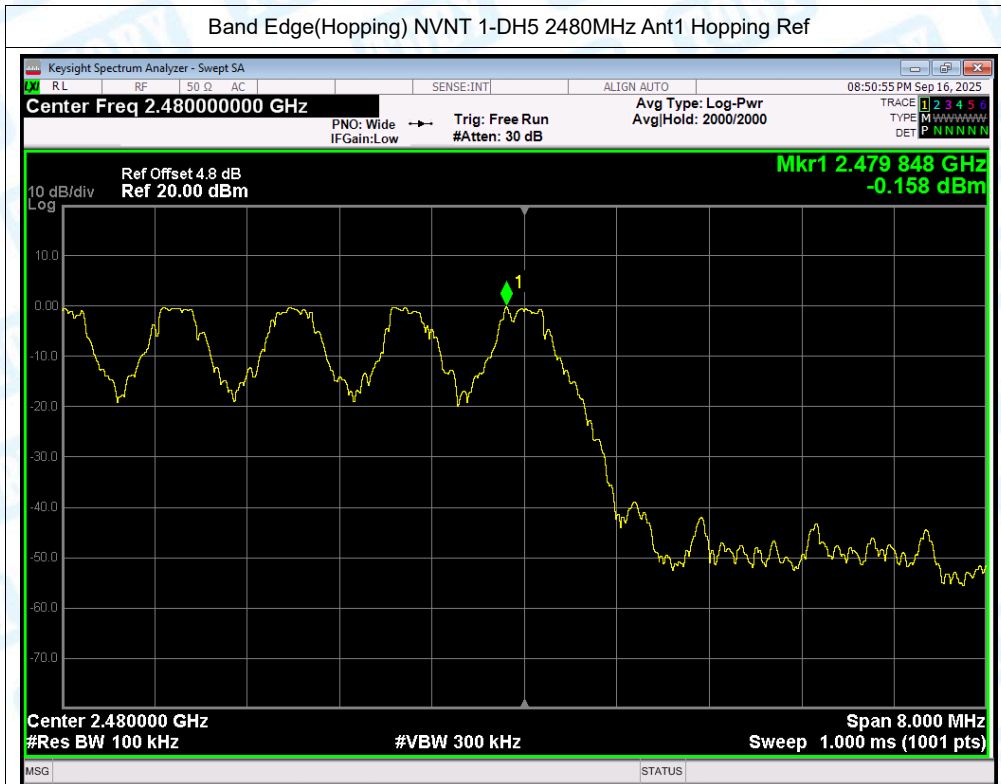
Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

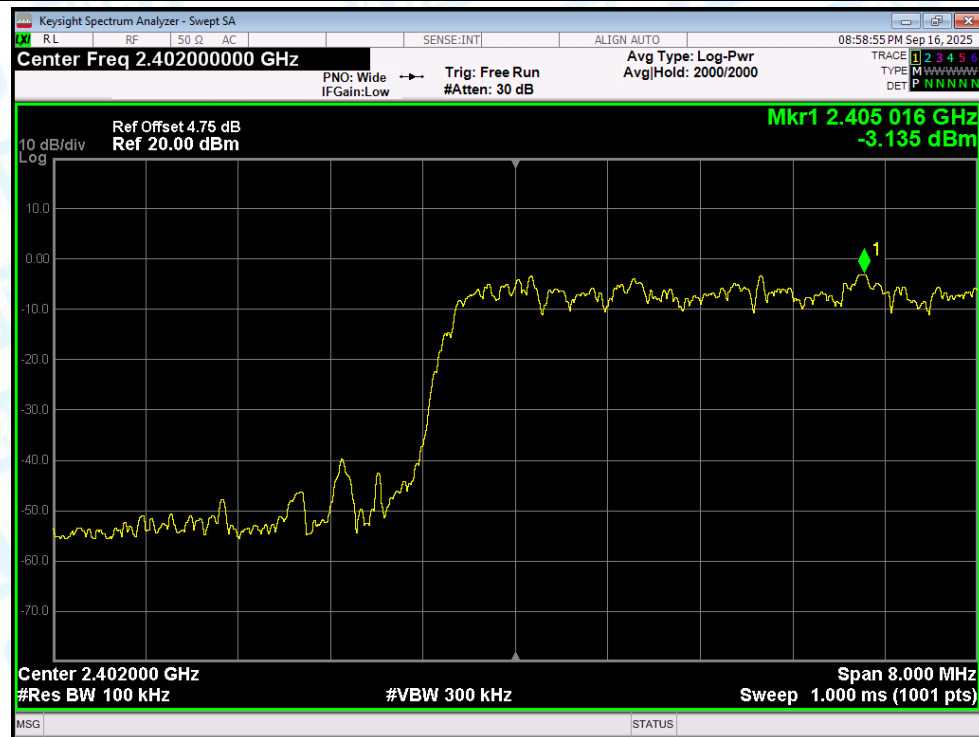


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

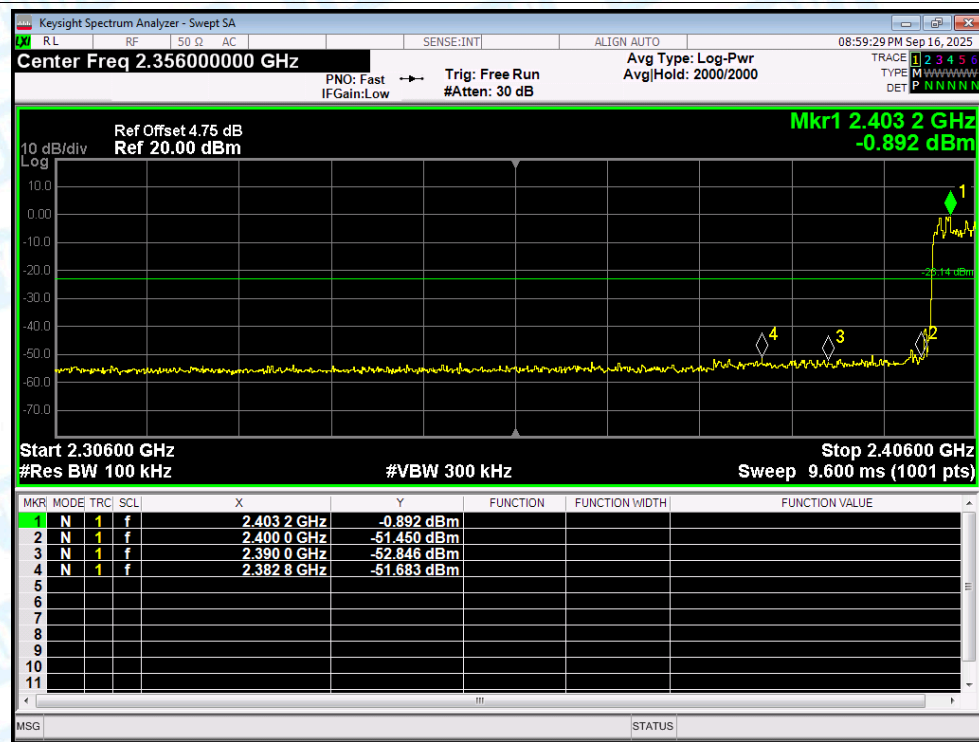




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



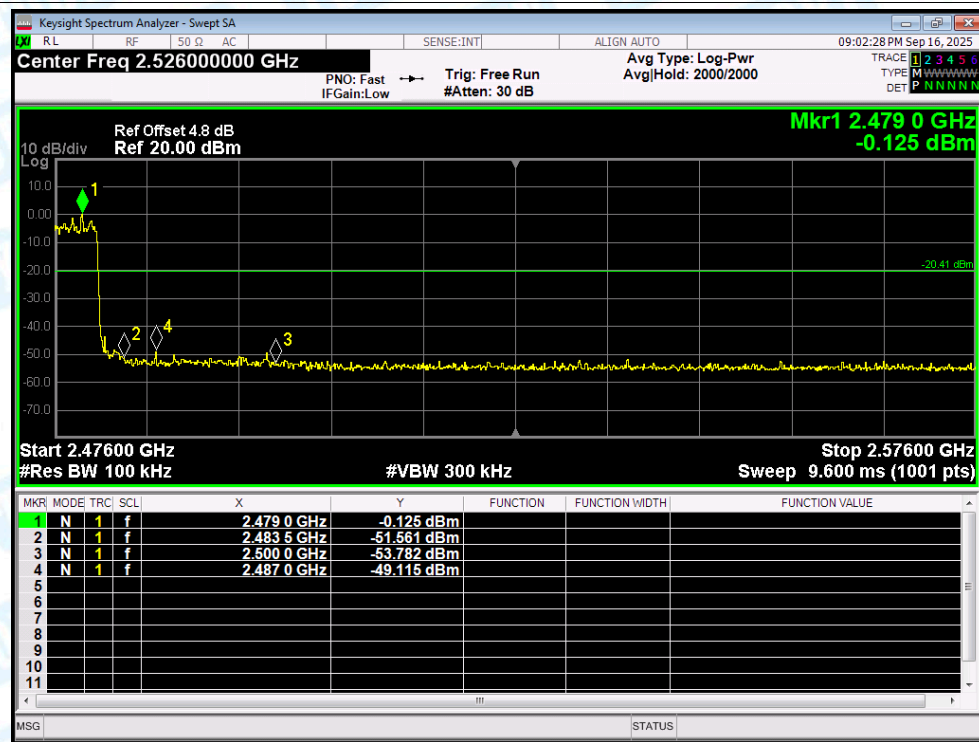
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



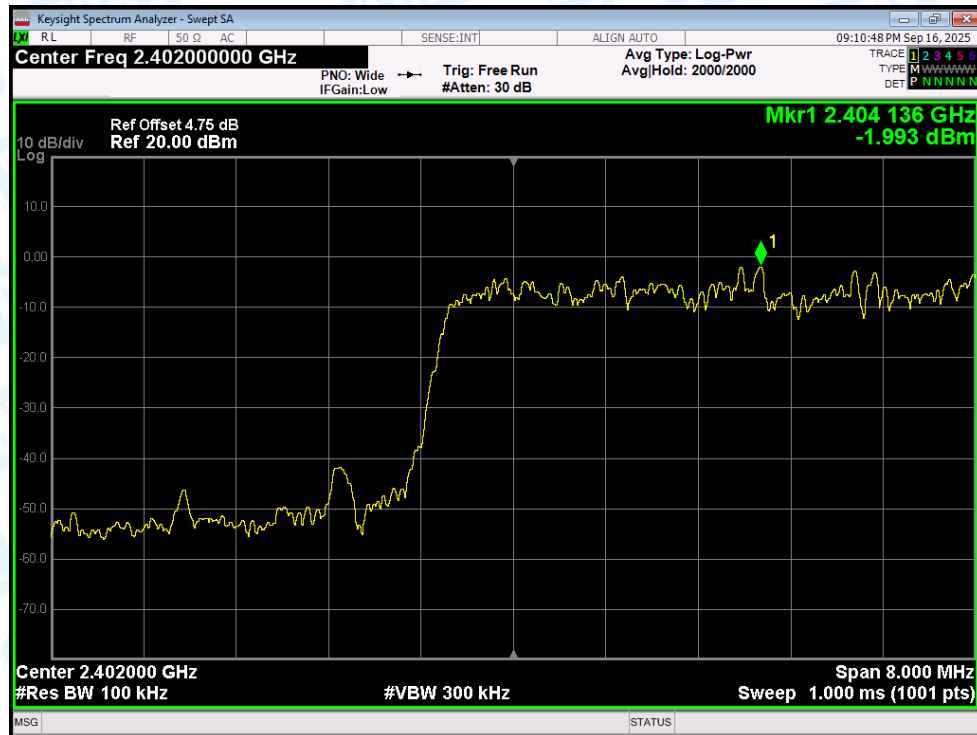
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



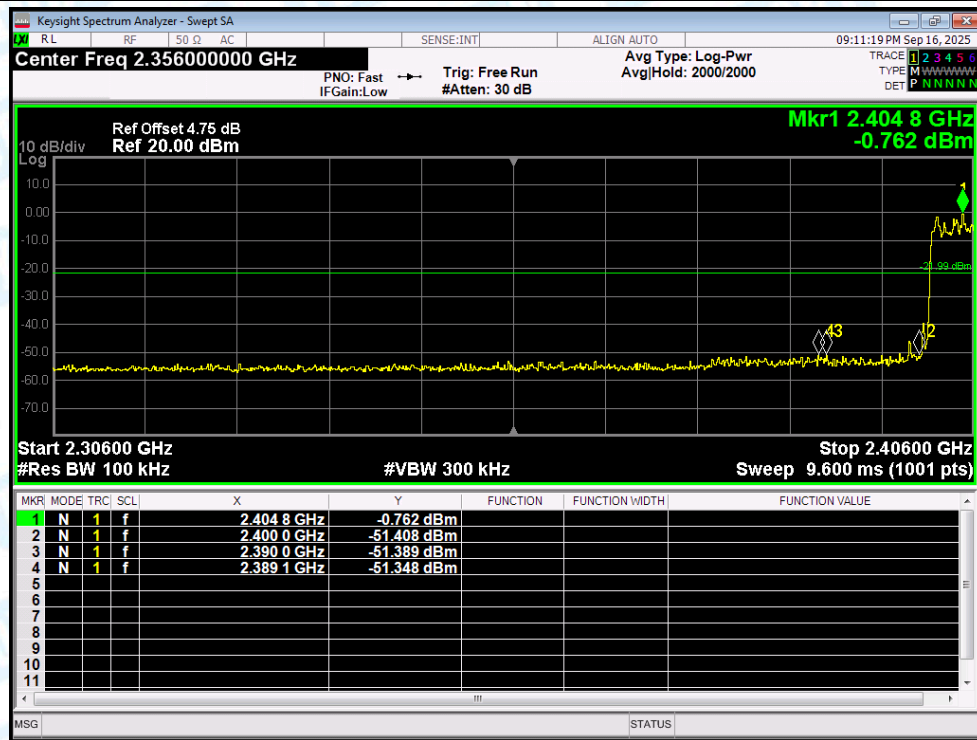
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



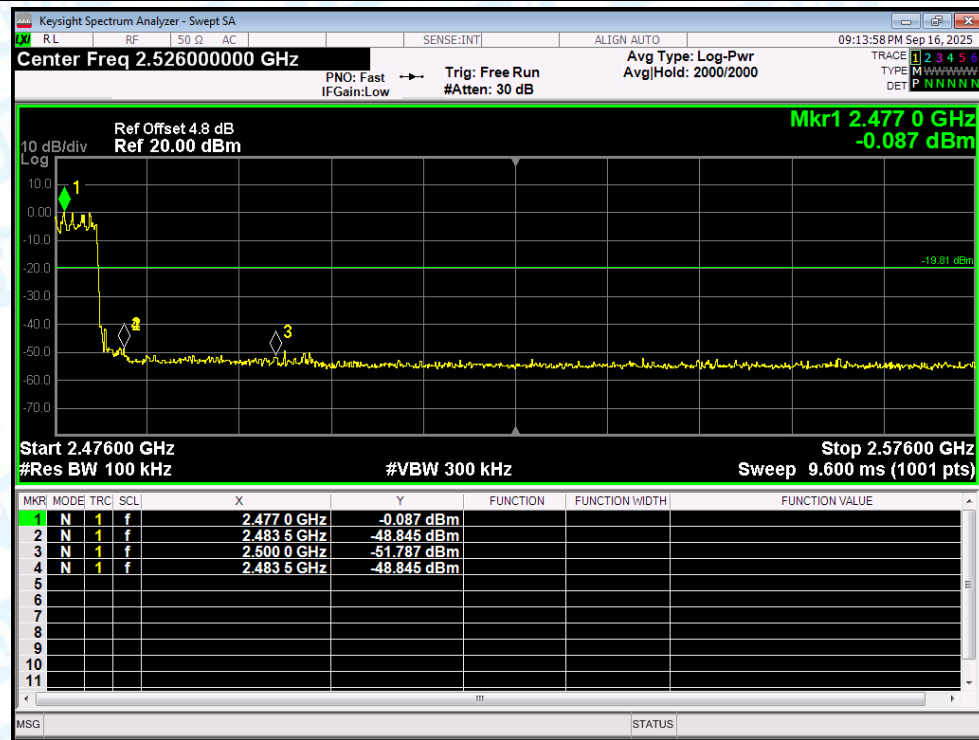
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

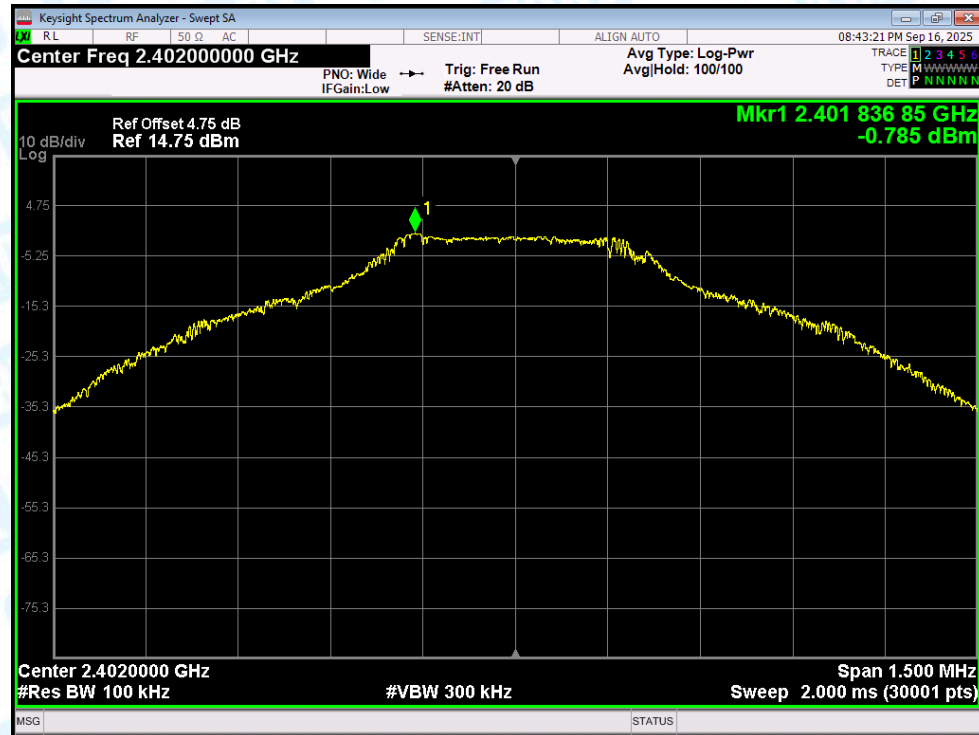


8. Conducted RF Spurious Emission

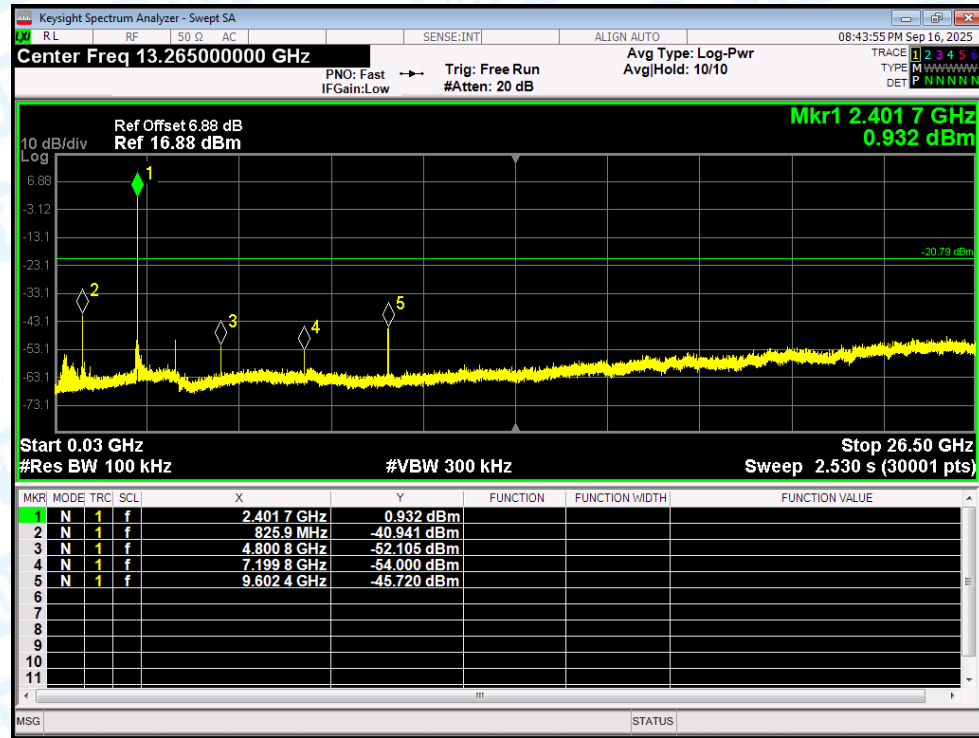
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.16	-20	Pass
NVNT	1-DH5	2441	Ant1	-44.48	-20	Pass
NVNT	1-DH5	2480	Ant1	-45.1	-20	Pass
NVNT	2-DH5	2402	Ant1	-44.26	-20	Pass
NVNT	2-DH5	2441	Ant1	-44.24	-20	Pass
NVNT	2-DH5	2480	Ant1	-44.94	-20	Pass
NVNT	3-DH5	2402	Ant1	-44.18	-20	Pass
NVNT	3-DH5	2441	Ant1	-43.55	-20	Pass
NVNT	3-DH5	2480	Ant1	-44.93	-20	Pass

Test Graphs

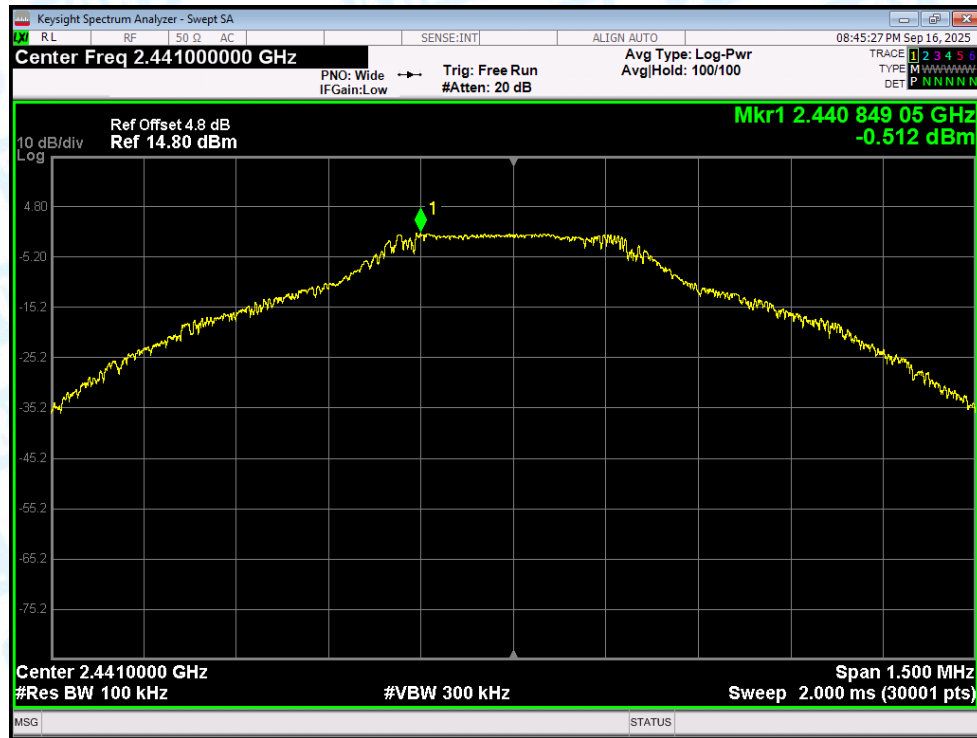
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



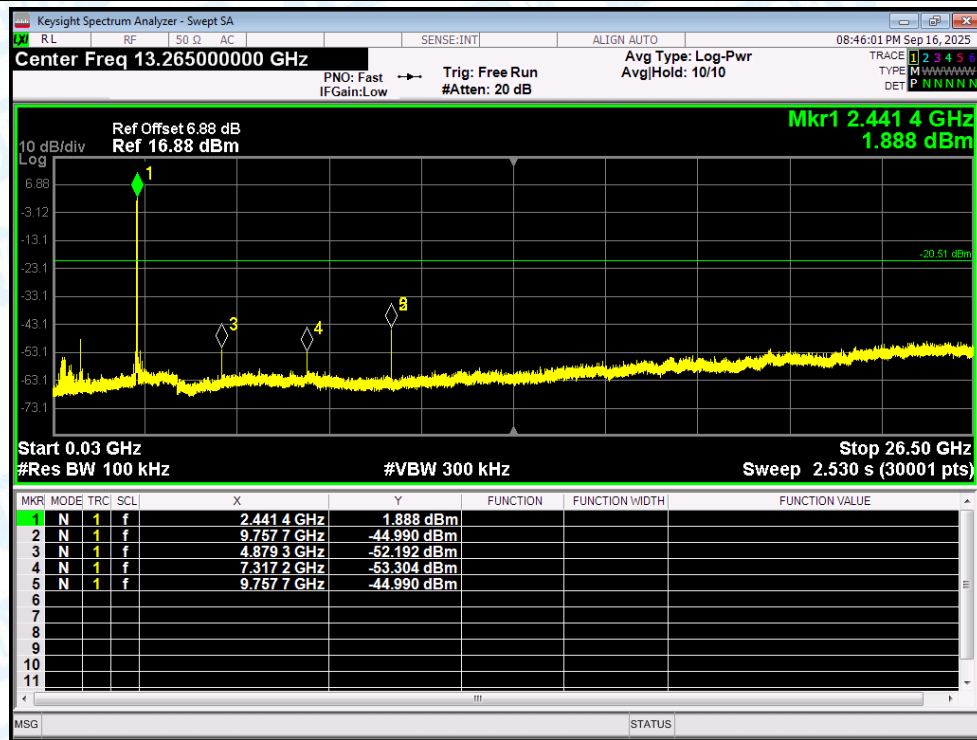
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



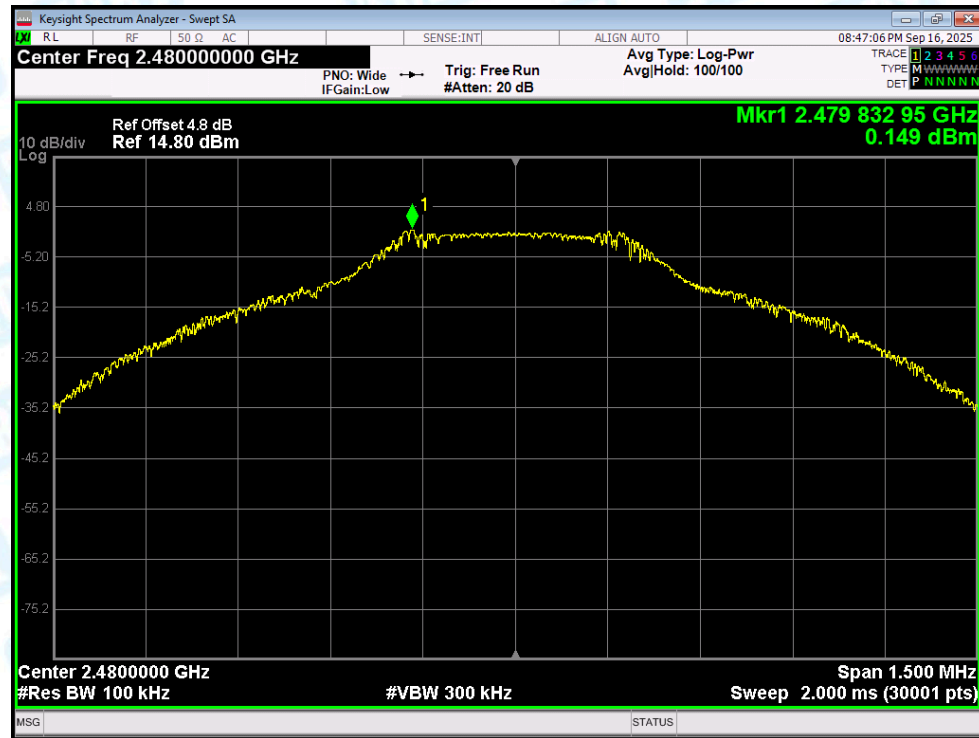
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



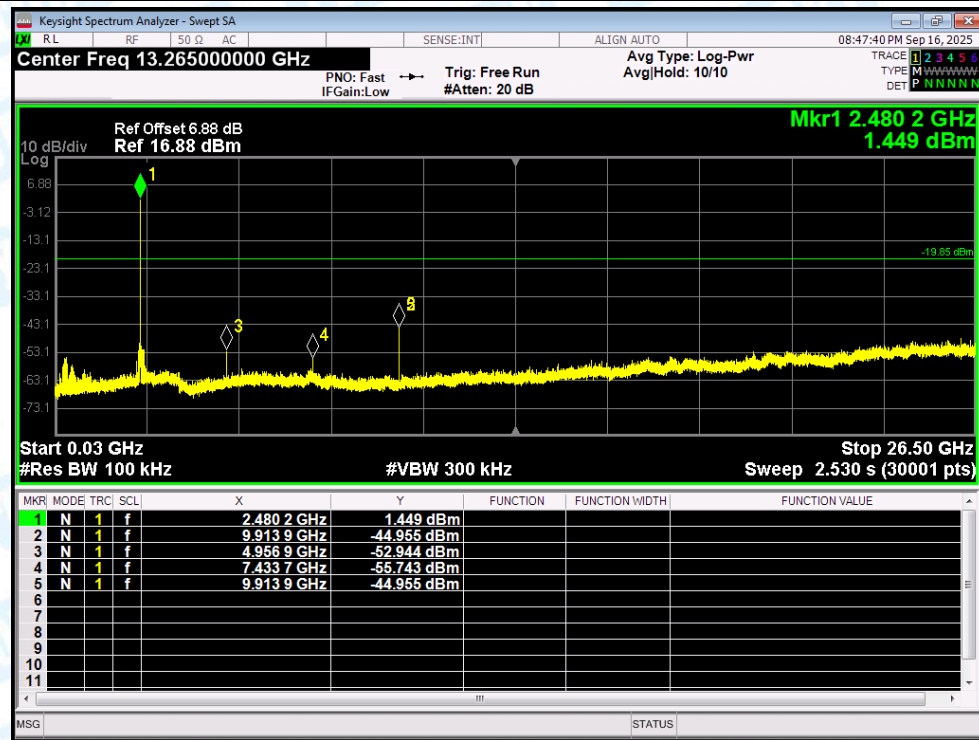
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



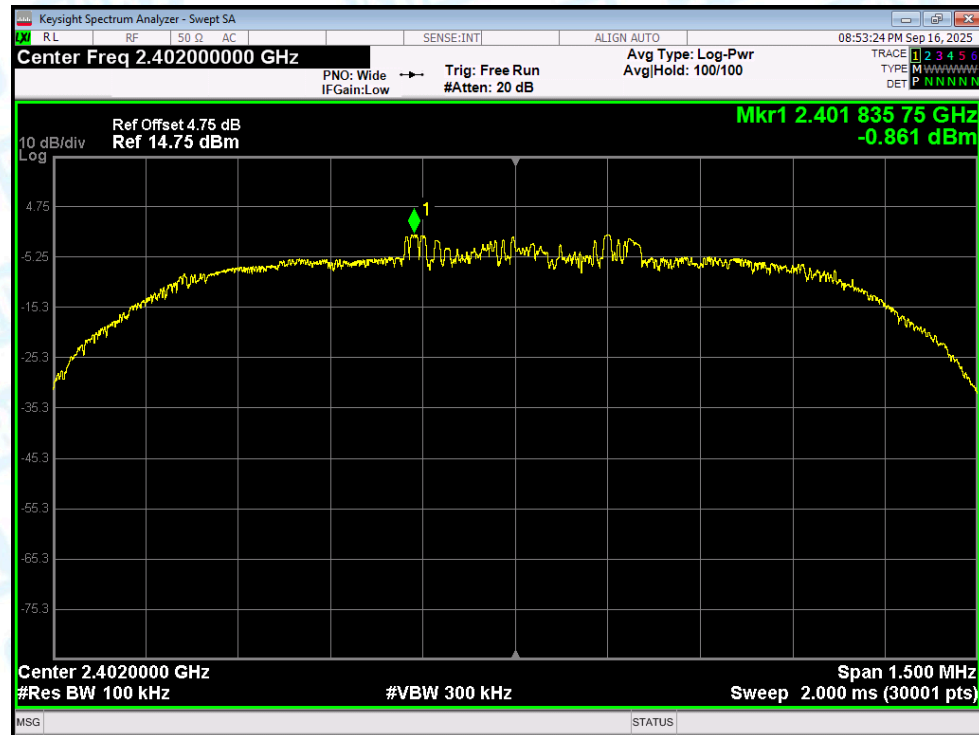
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



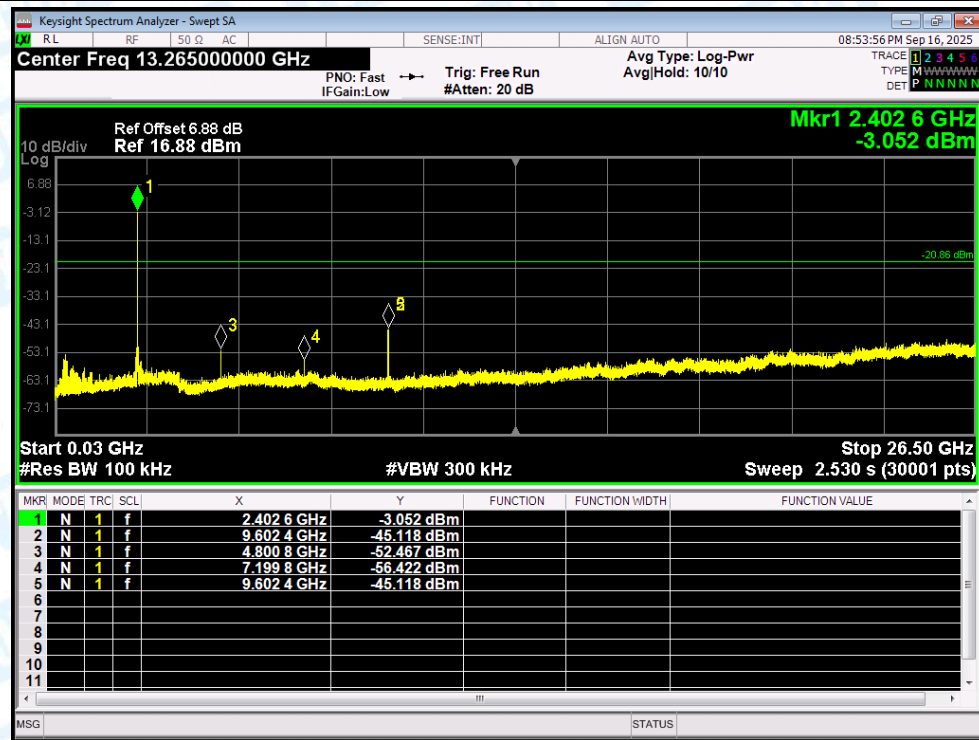
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



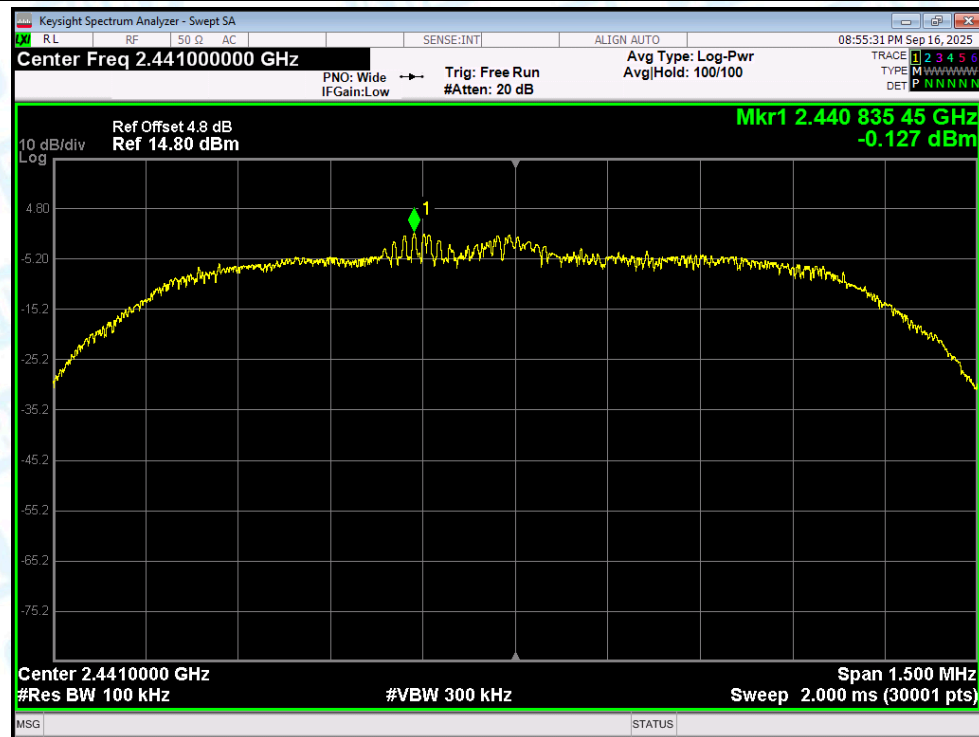
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



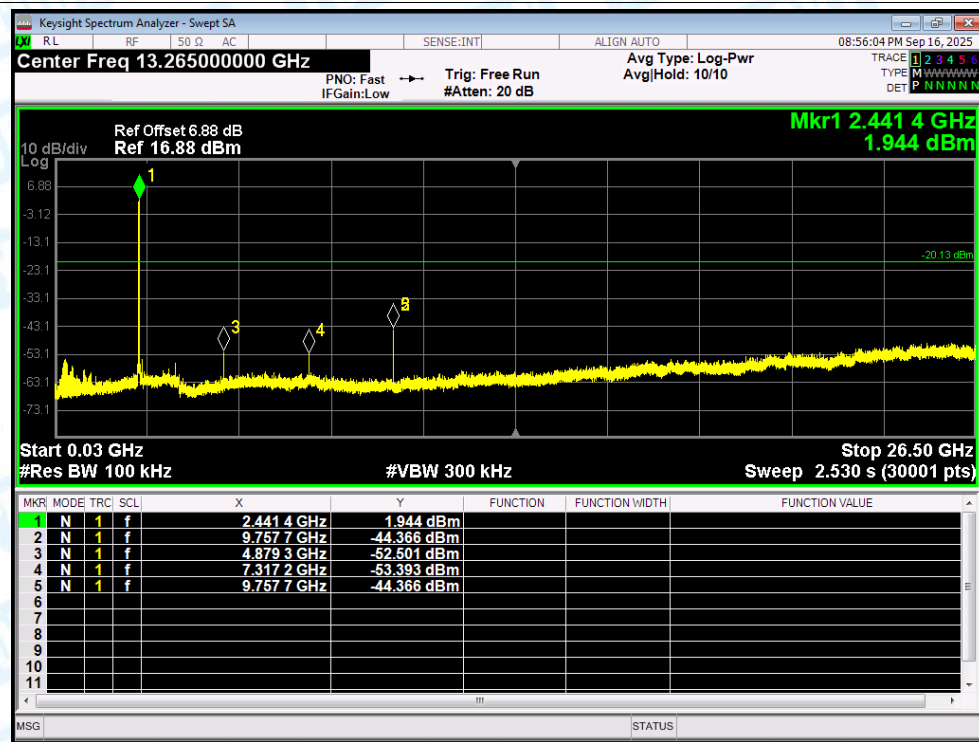
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



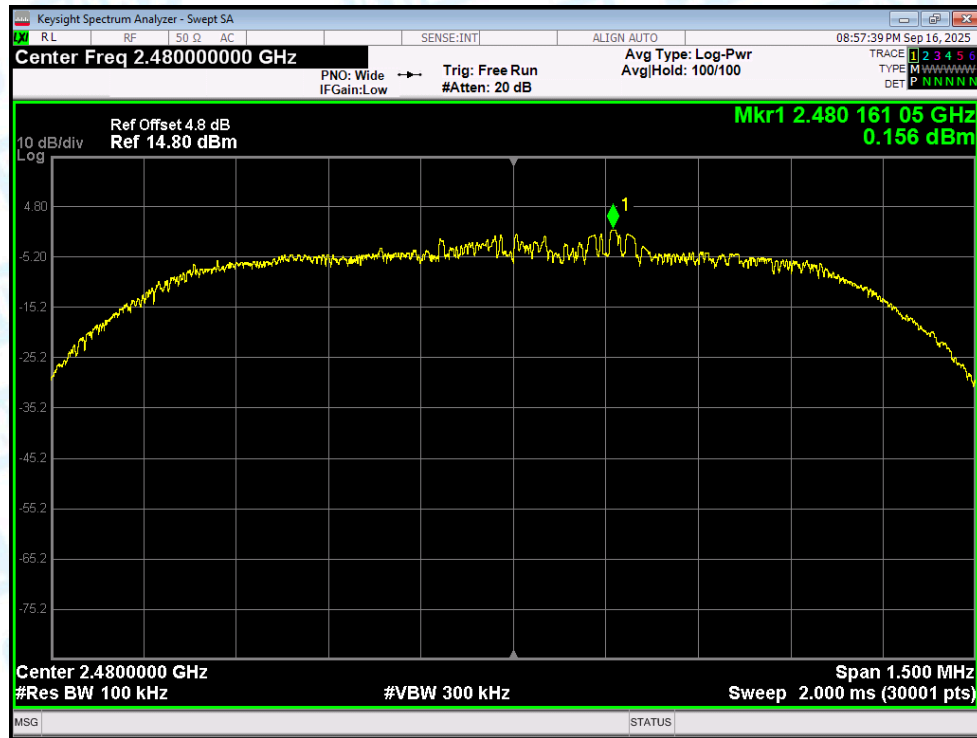
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



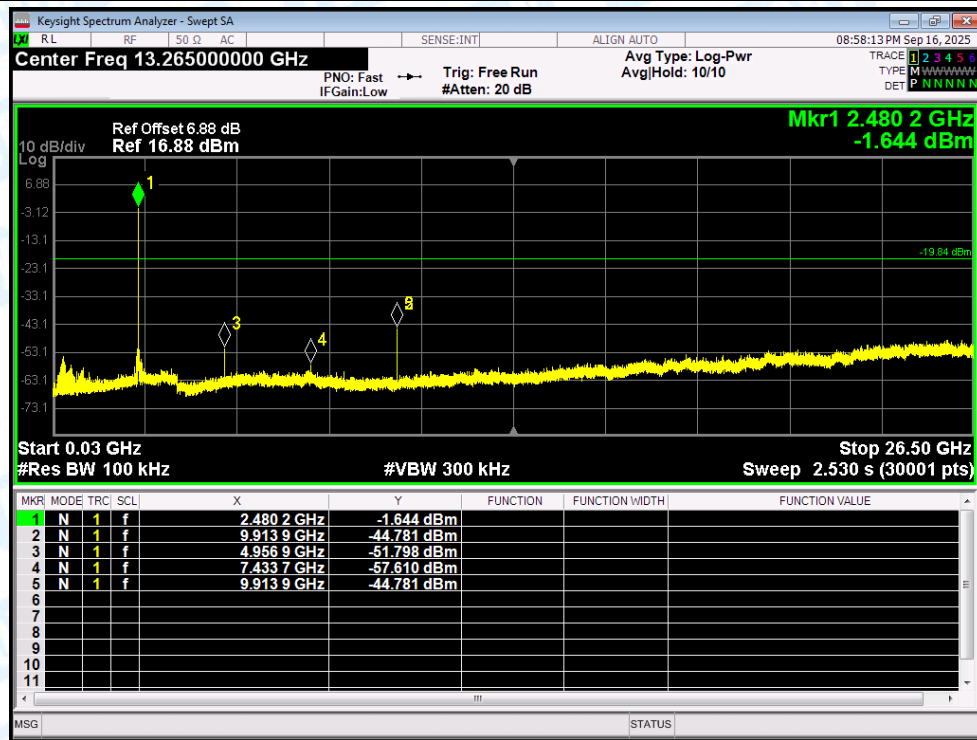
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



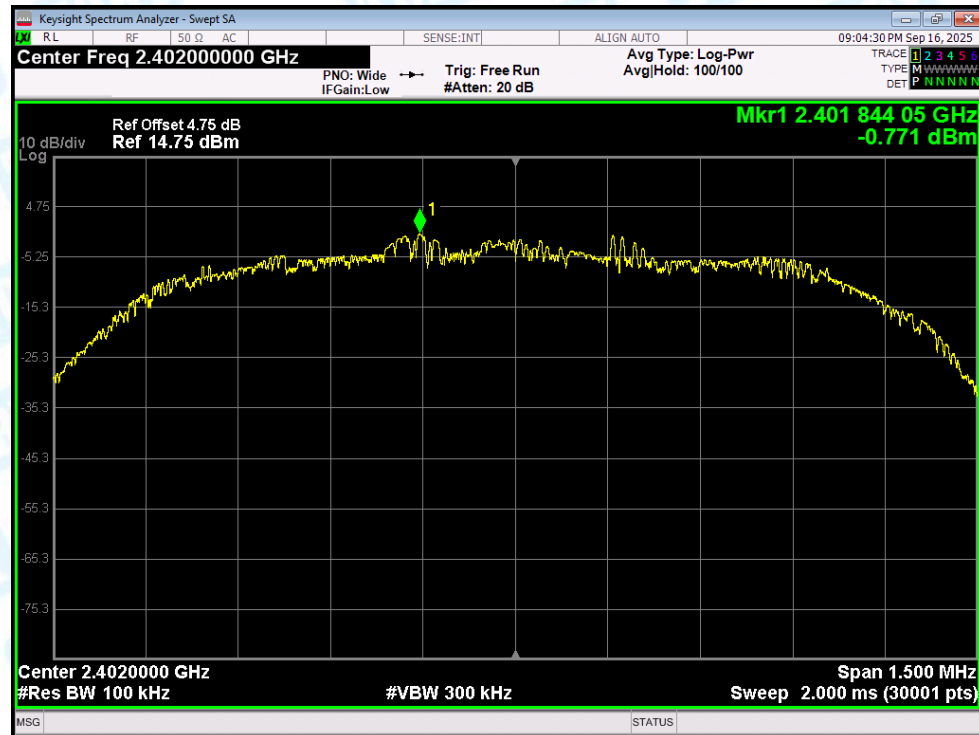
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



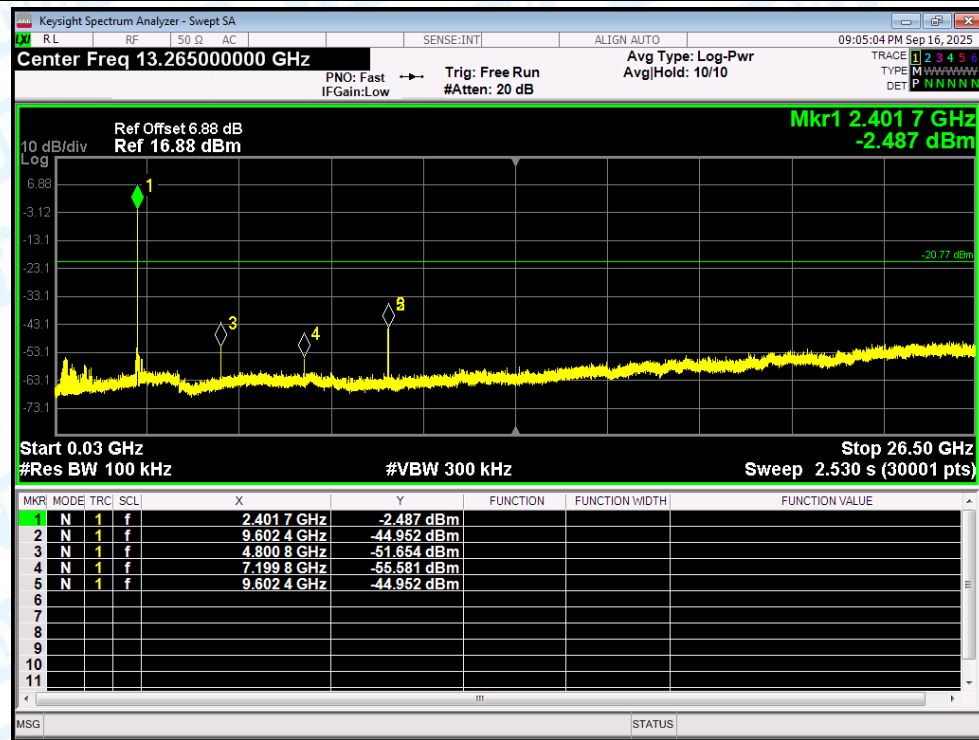
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



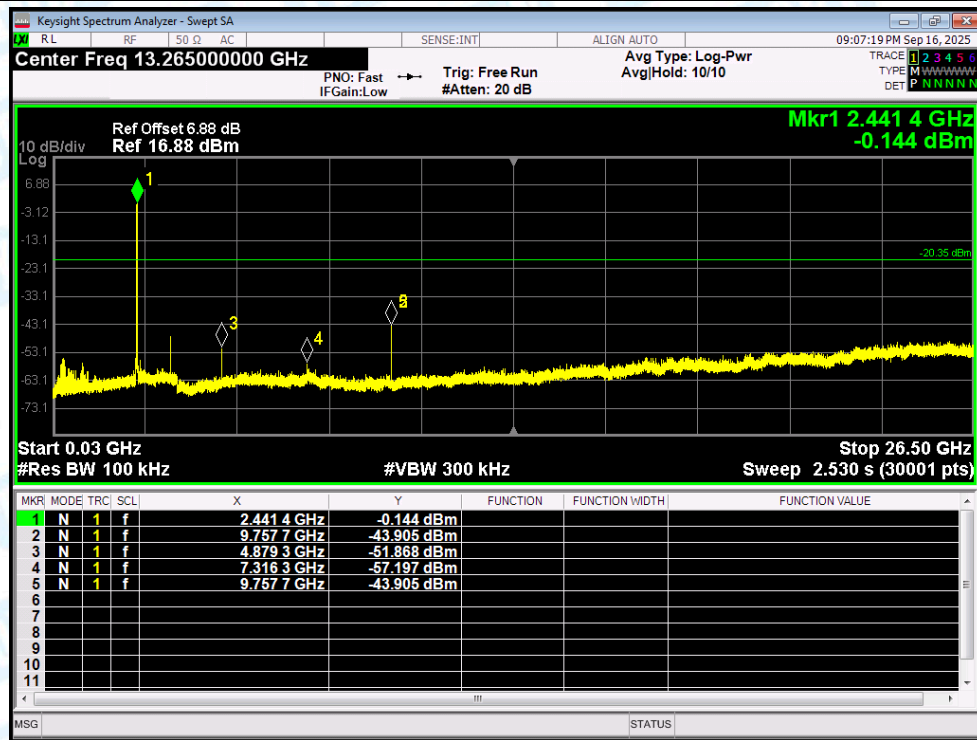
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



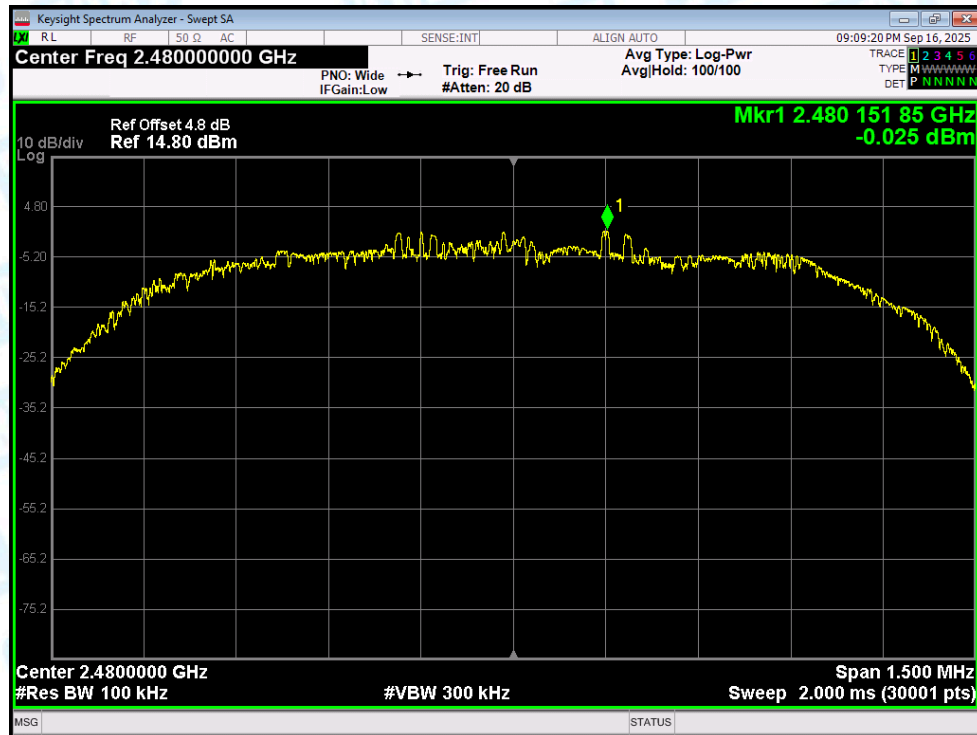
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



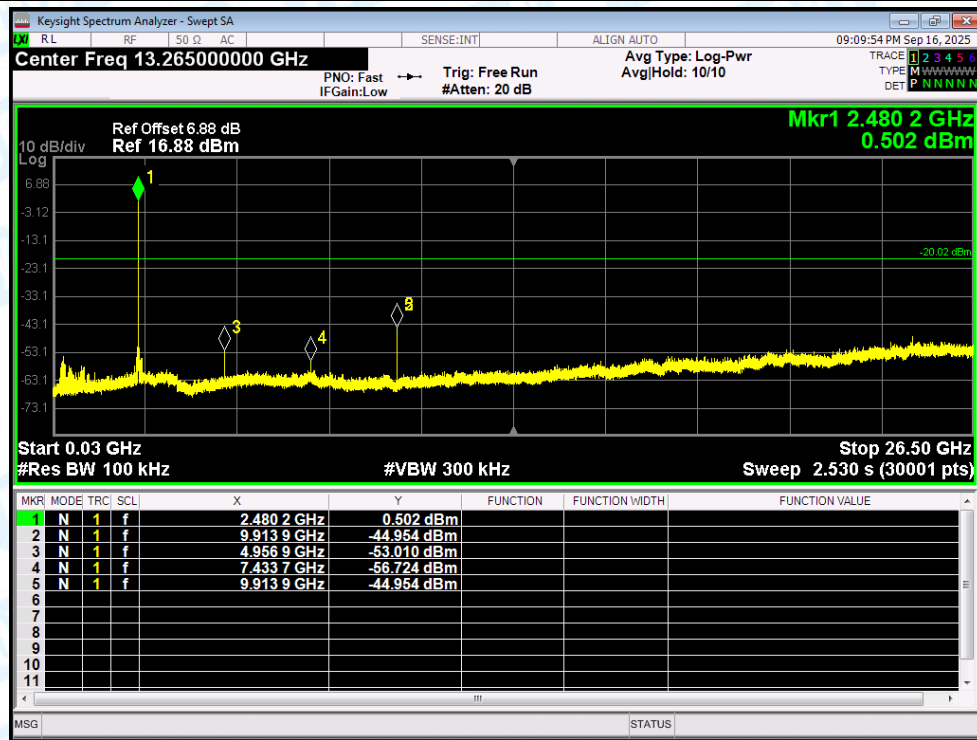
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

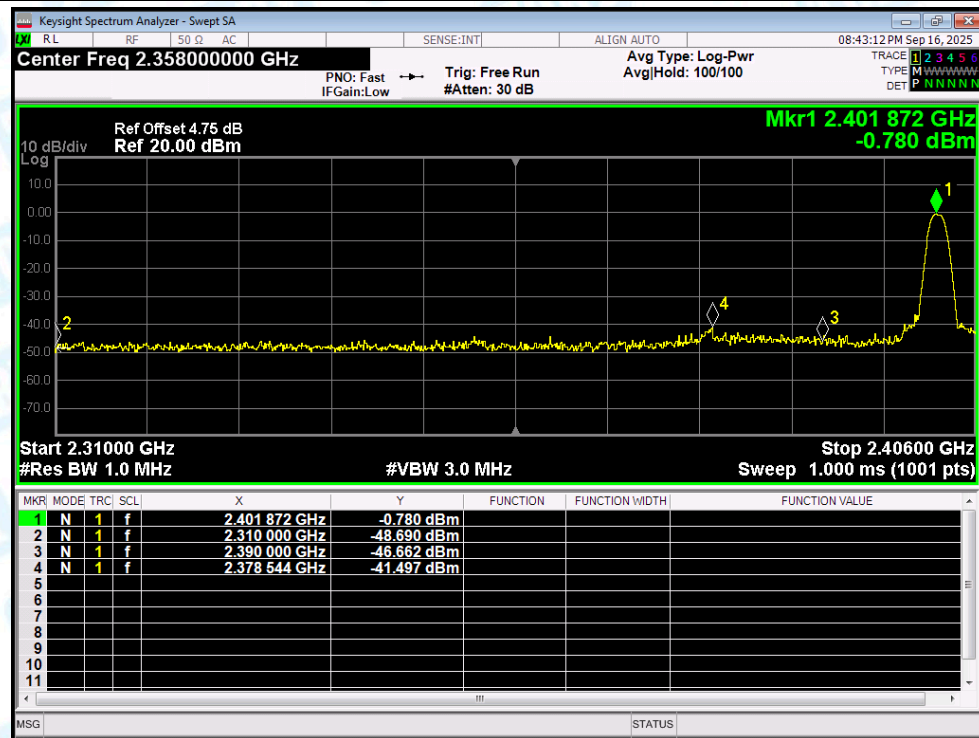


9. Restrict Band

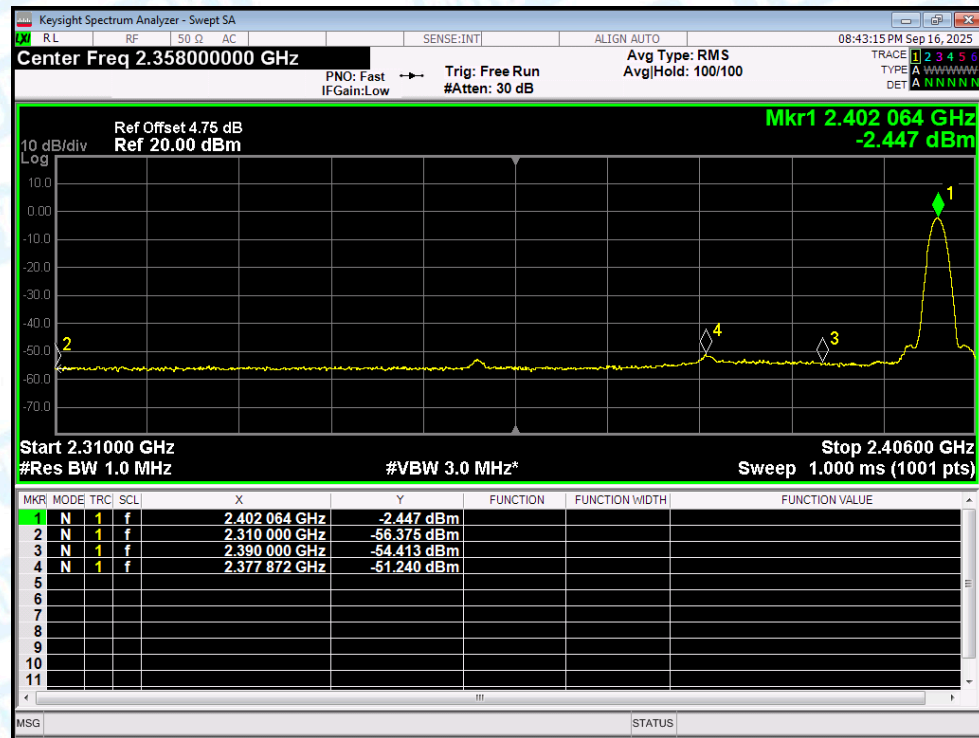
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-48.69	2	-	48.57	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-56.38	2	1.14	42.02	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.544	-41.5	2	-	55.76	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2377.872	-51.24	2	1.14	47.16	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-46.66	2	-	50.6	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-54.41	2	1.14	43.99	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-39.48	2	-	57.78	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-46.76	2	1.14	51.64	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-39.48	2	-	57.78	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.56	-46.58	2	1.14	51.82	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-45.29	2	-	51.97	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-52.96	2	1.14	45.44	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-46.57	2	-	50.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-56.07	2	0	41.19	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.64	-42.77	2	-	54.49	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2377.968	-51.97	2	0	45.29	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-45.78	2	-	51.48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-54.34	2	0	42.92	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-39.92	2	-	57.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.79	2	0	48.47	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-39.92	2	-	57.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-48.79	2	0	48.47	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-43.93	2	-	53.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-52.99	2	0	44.27	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-46.8	2	-	50.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-56.29	2	1.13	42.1	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2377.2	-42.86	2	-	54.4	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2378.064	-51.86	2	1.13	46.53	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-46.52	2	-	50.74	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-53.73	2	1.13	44.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-42.25	2	-	55.01	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.45	2	1.13	48.94	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.656	-39.77	2	-	57.49	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.632	-49.1	2	1.13	49.29	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-44.4	2	-	52.86	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-53.14	2	1.13	45.25	Average	54	Pass

Test Graphs

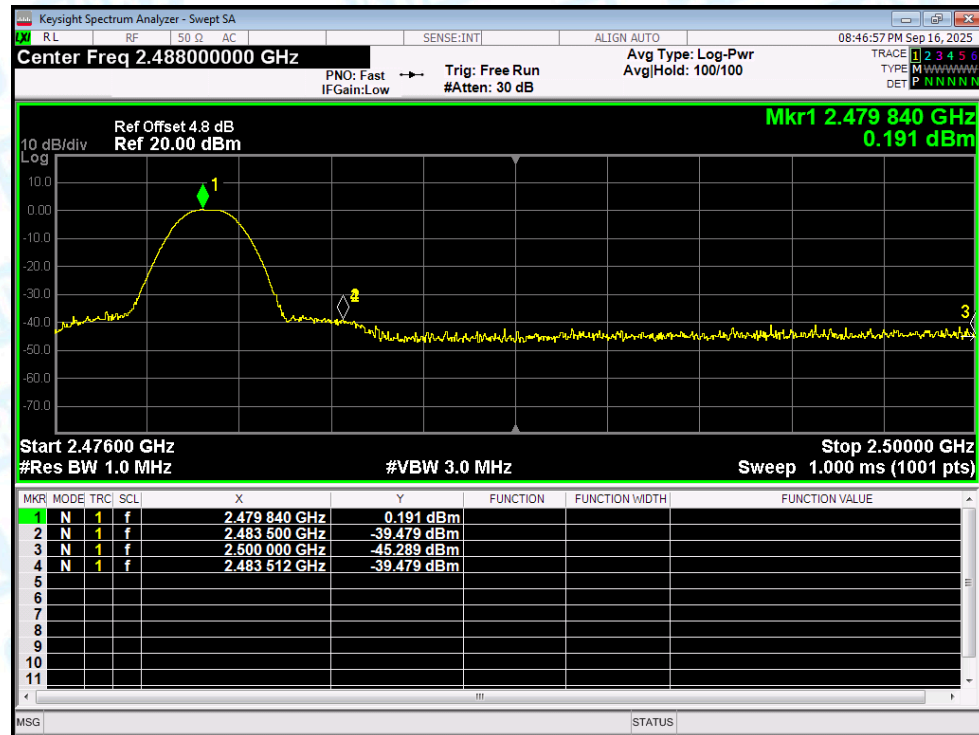
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



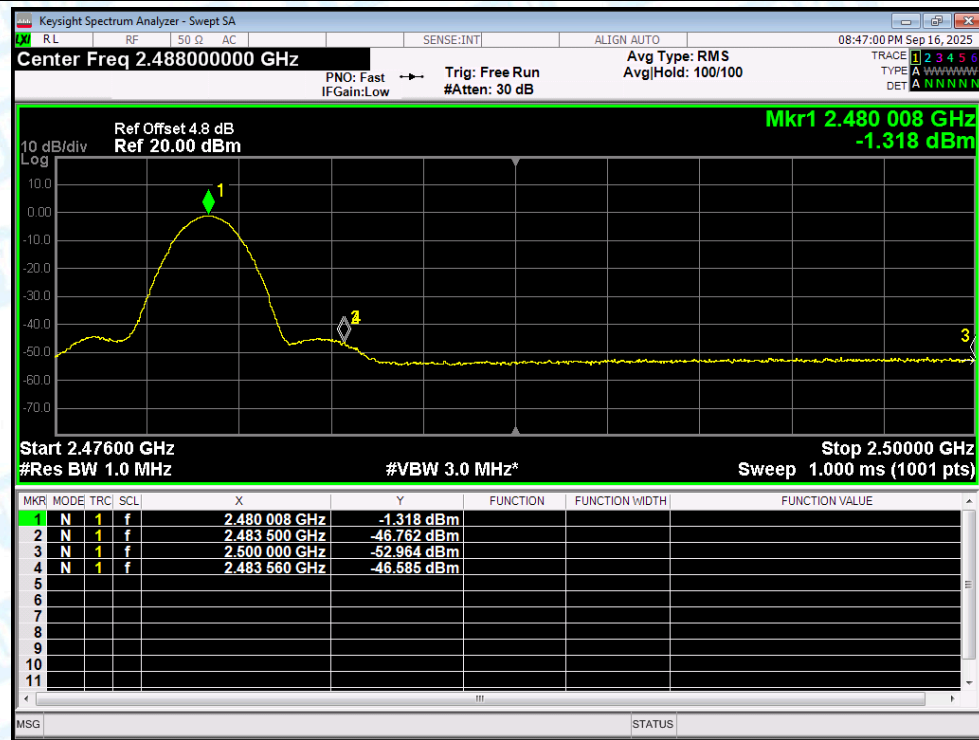
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



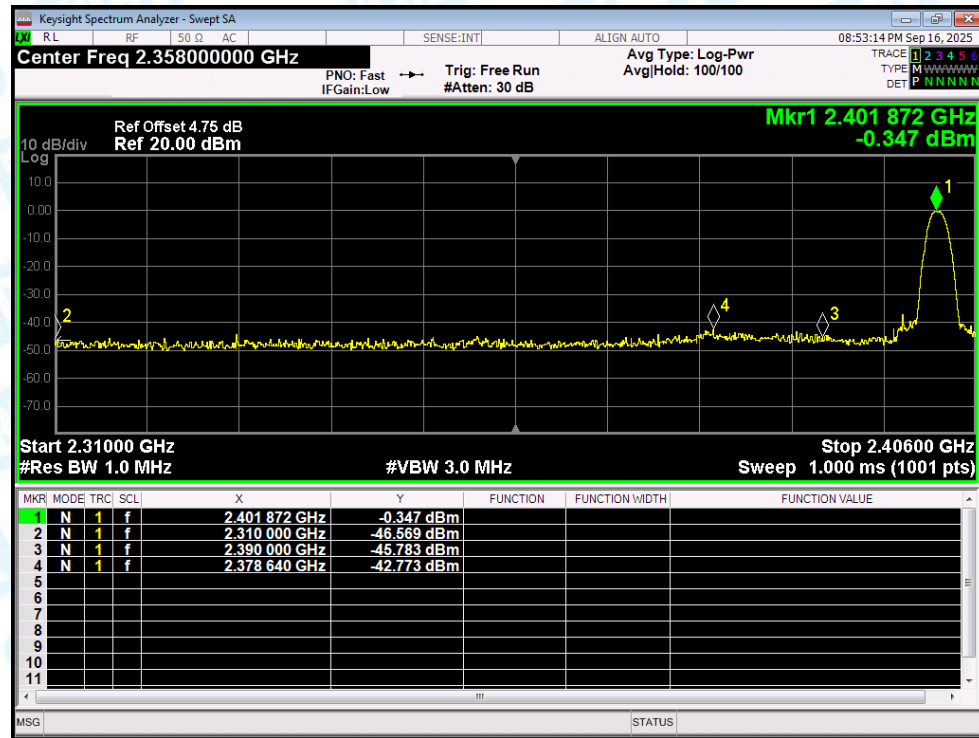
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



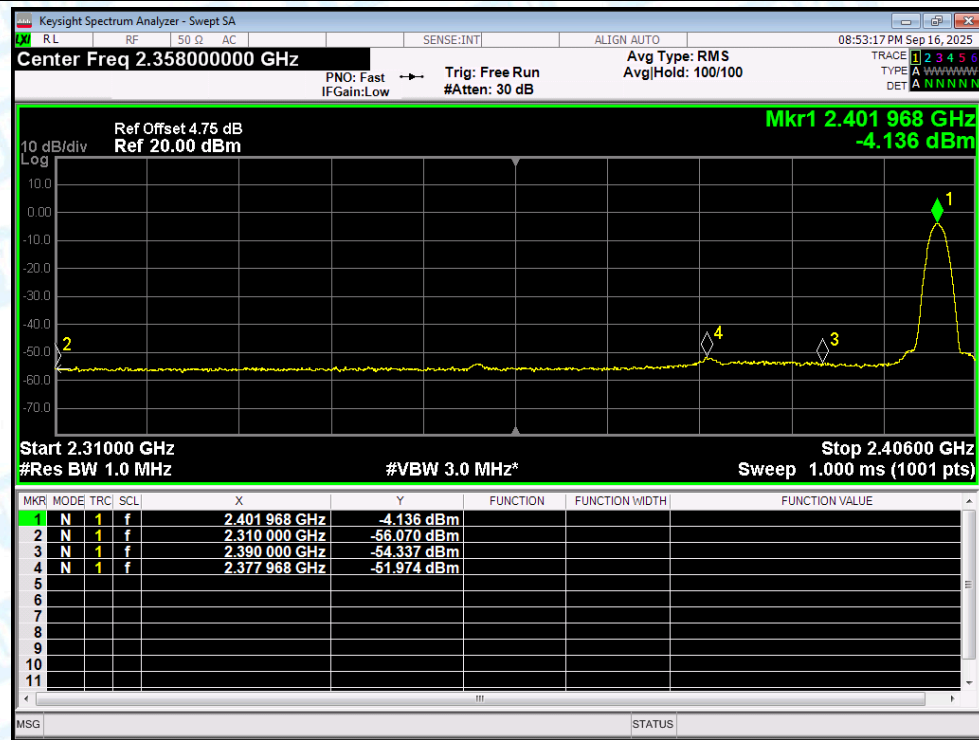
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



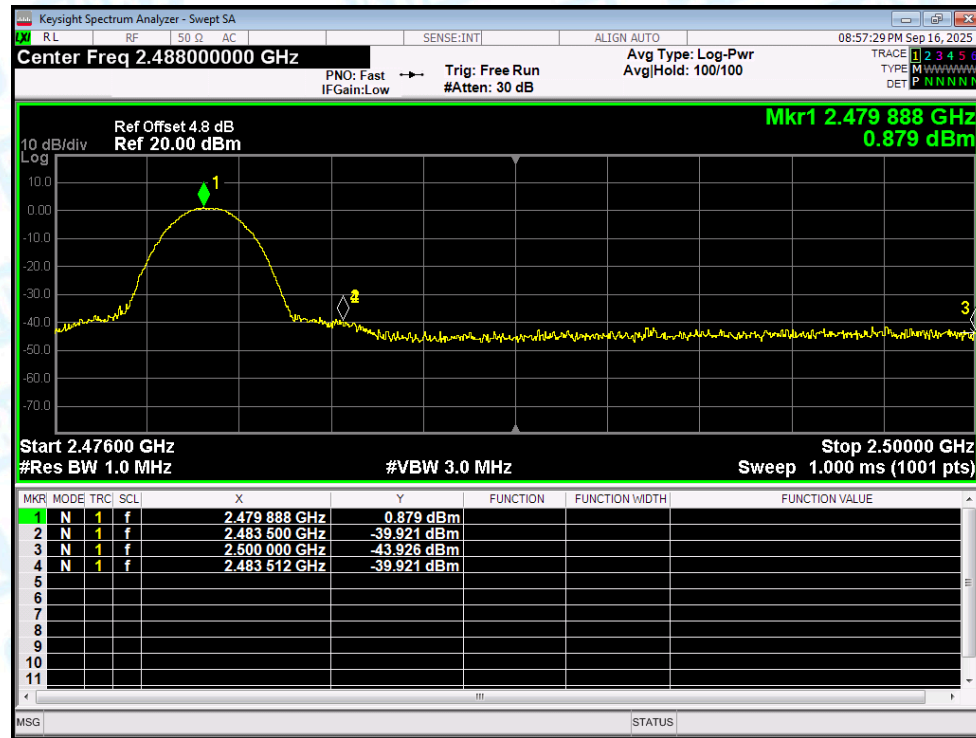
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



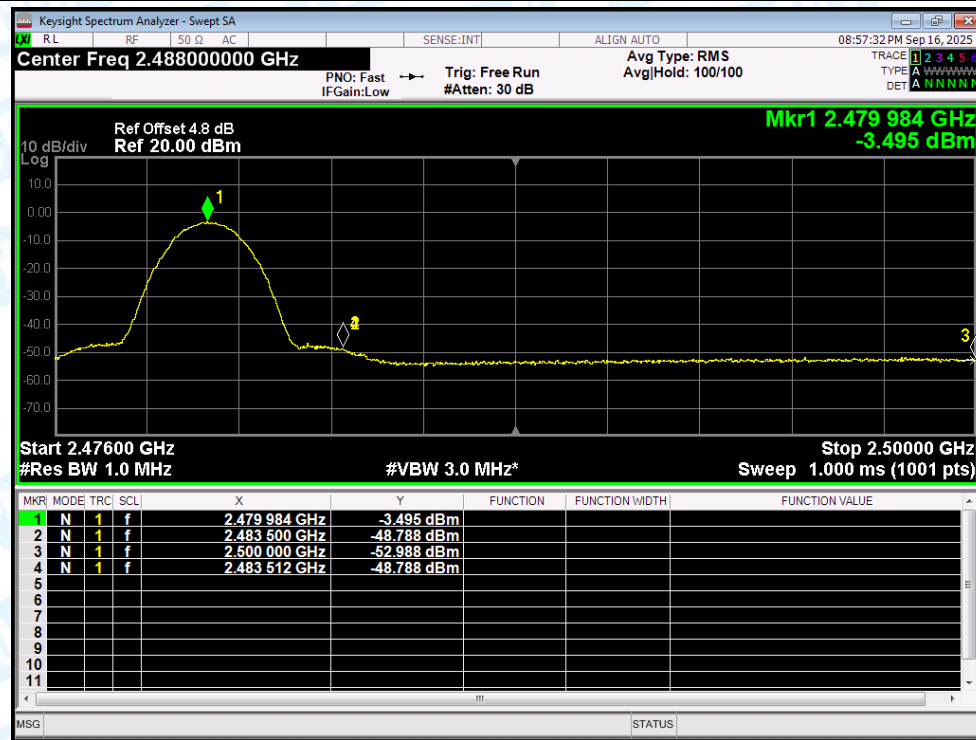
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



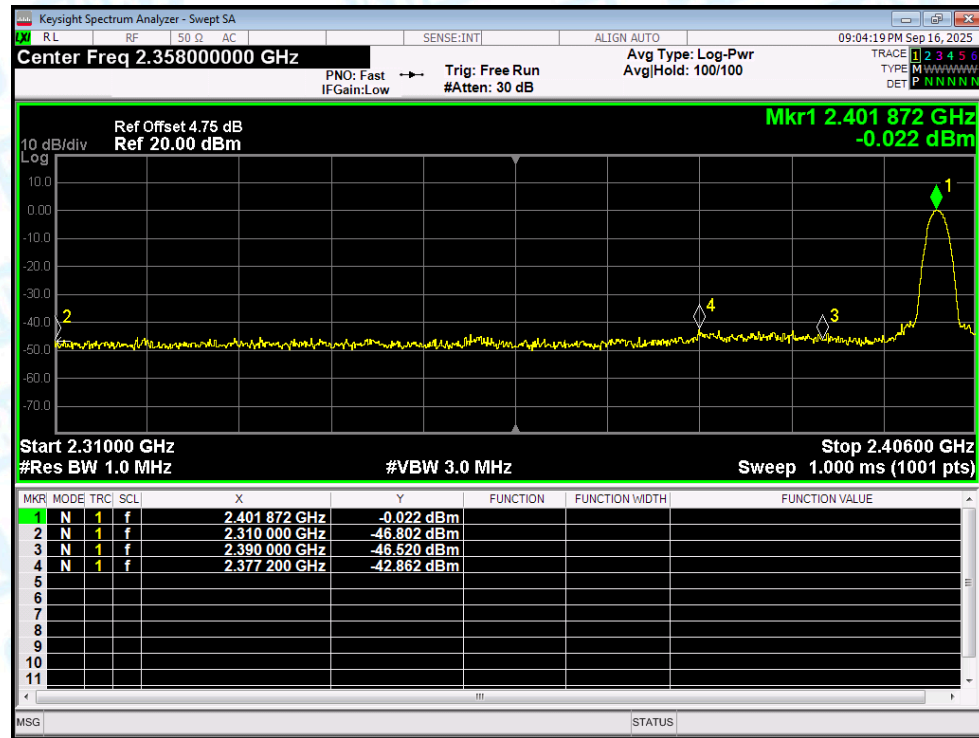
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



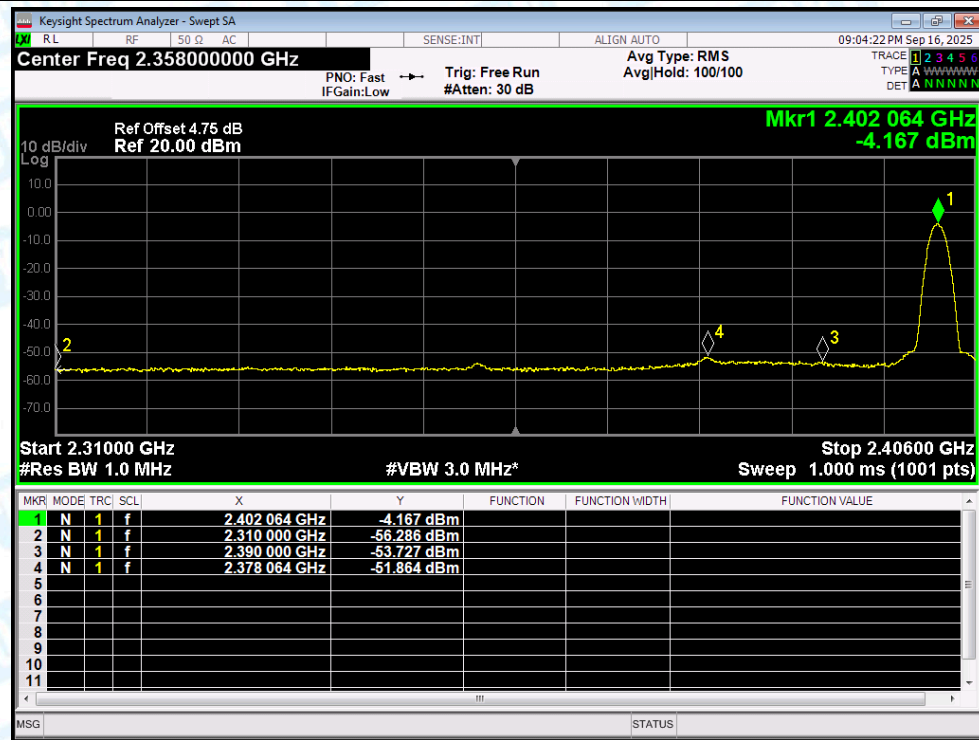
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



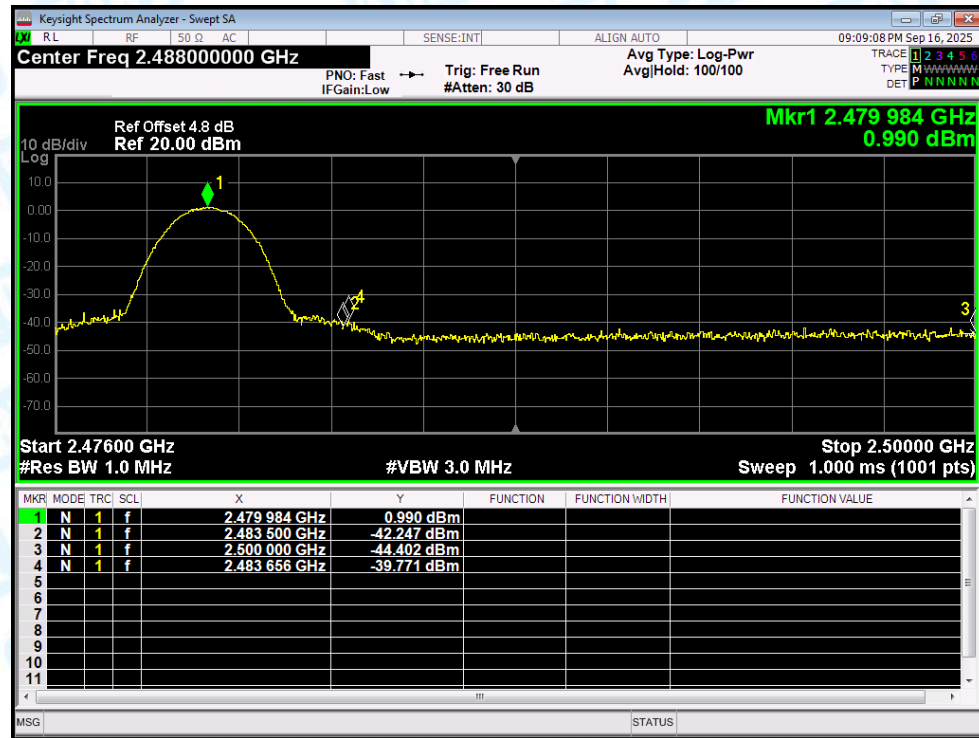
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



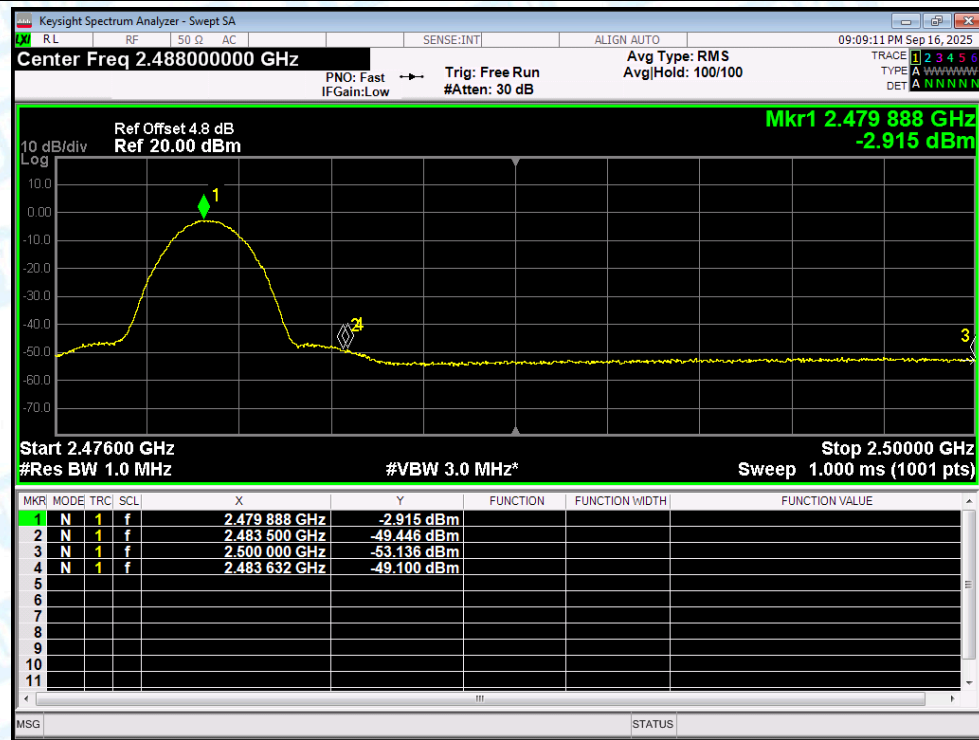
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

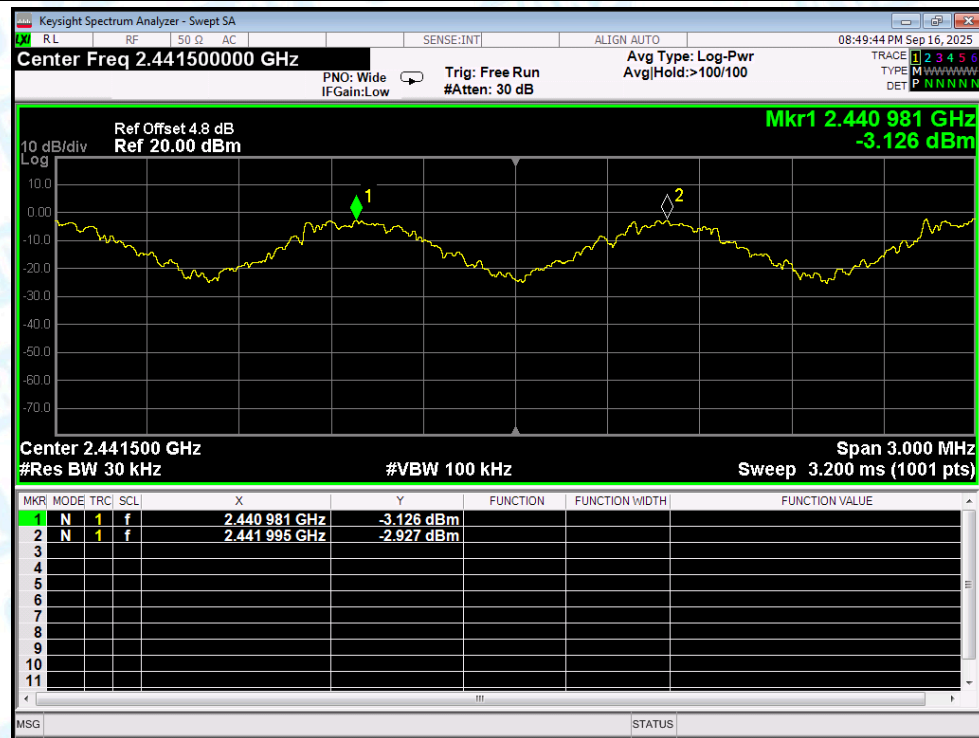


10. Carrier Frequencies Separation

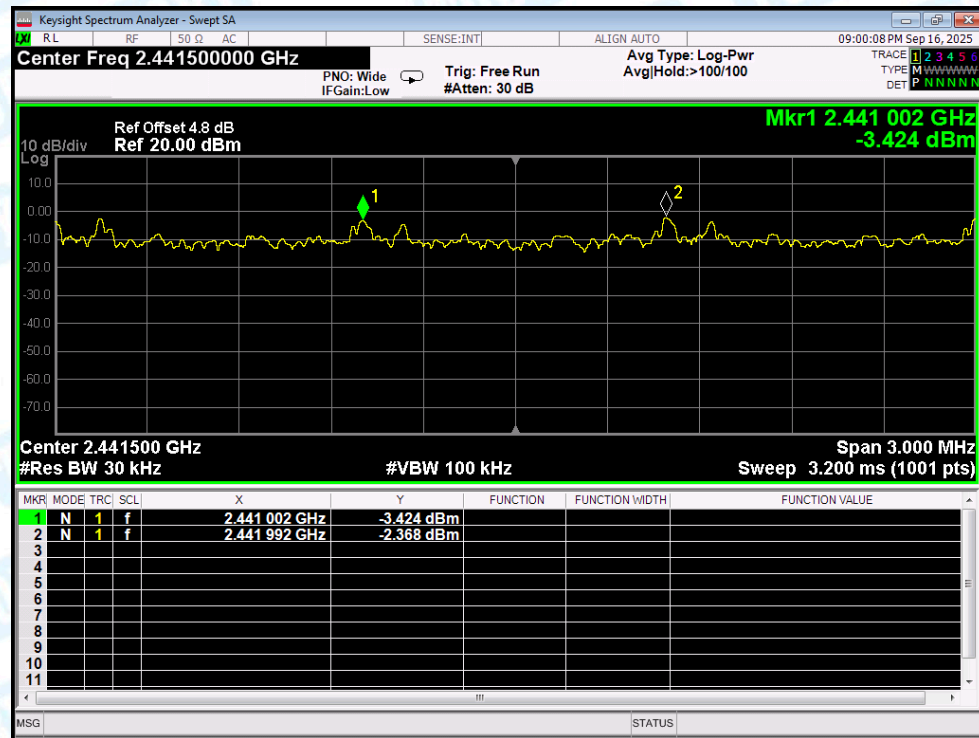
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2440.981	2441.995	1.014	0.633	Pass
NVNT	2-DH5	Ant1	2441.002	2441.992	0.99	0.873	Pass
NVNT	3-DH5	Ant1	2440.957	2441.977	1.02	0.86	Pass

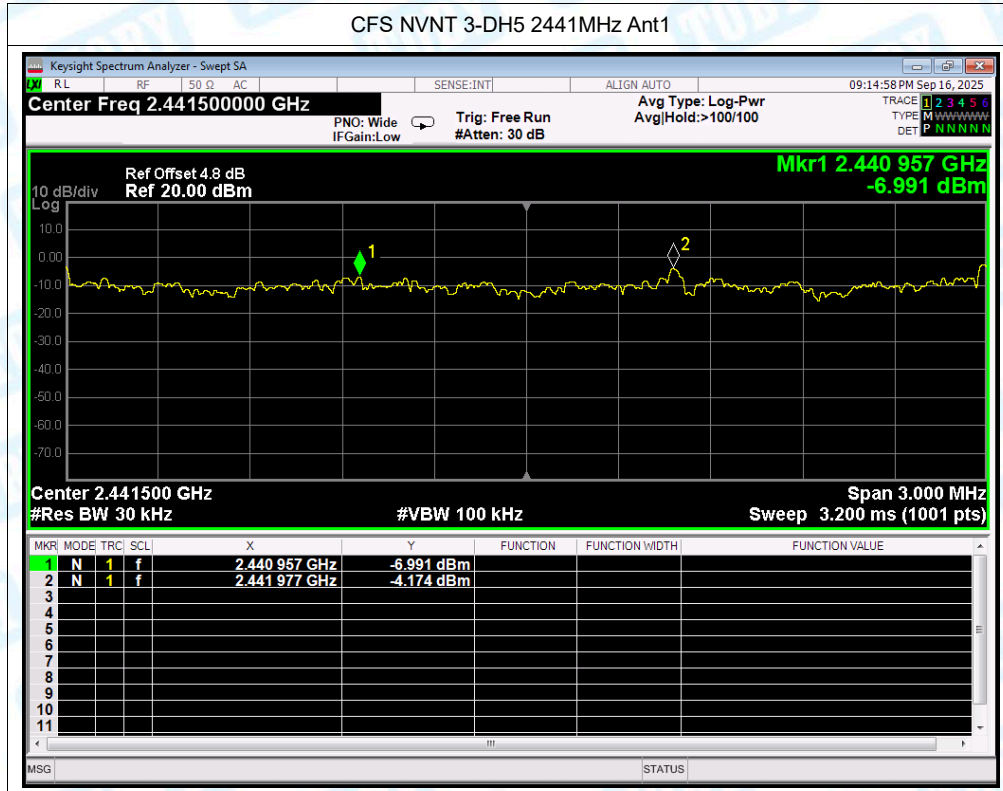
Test Graphs

CFS NVNT 1-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2441MHz Ant1



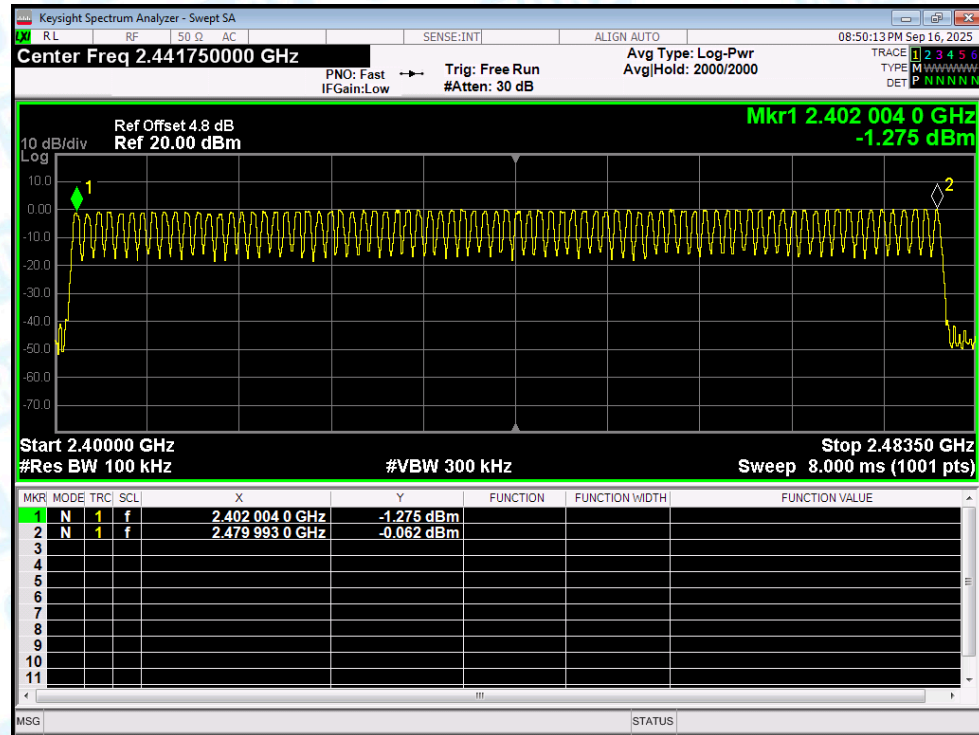


11. Number of Hopping Channel

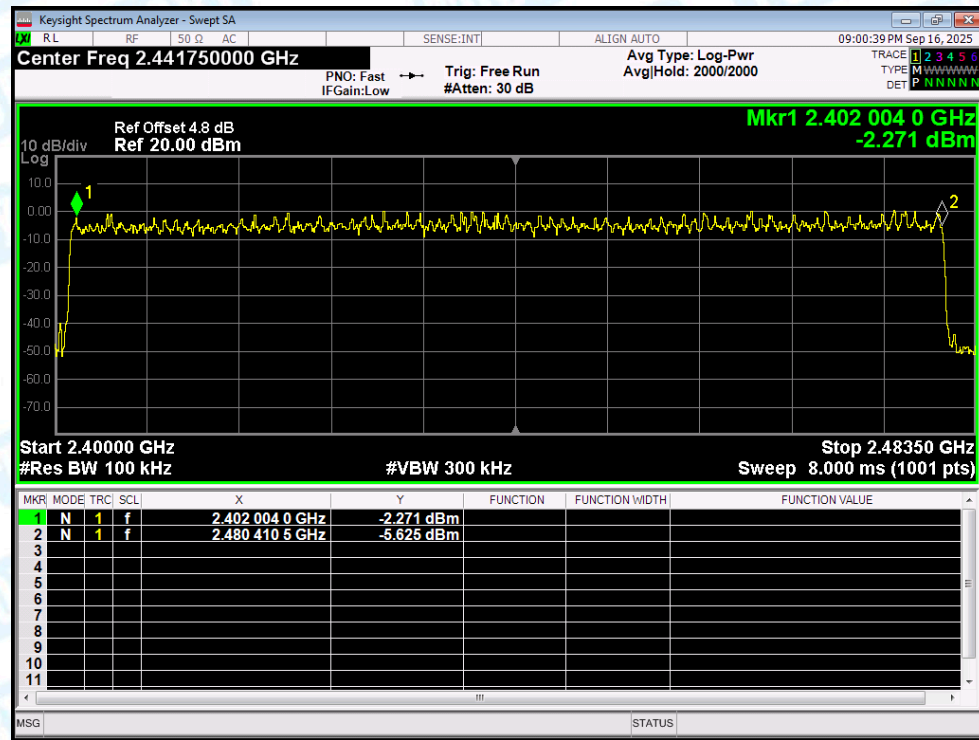
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

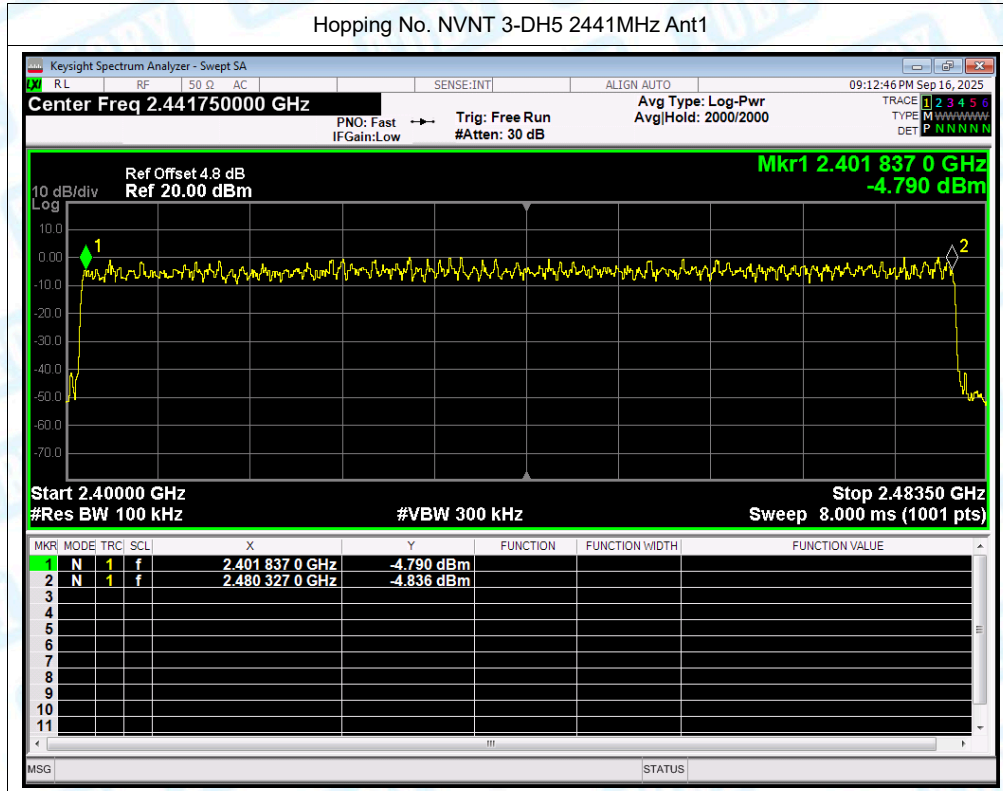
Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1





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