

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Smart glasses
Test Model:	G06
Sample ID:	HC-C-202504-0100-01-2#
Environmental Conditions	
Temperature:	24.4℃
Relative Humidity:	50%
Test Voltage:	DC 3.8V
Test Engineer:	Gold Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202504-0100-3 The report only show the worst case data. (Left Data)	

Contents

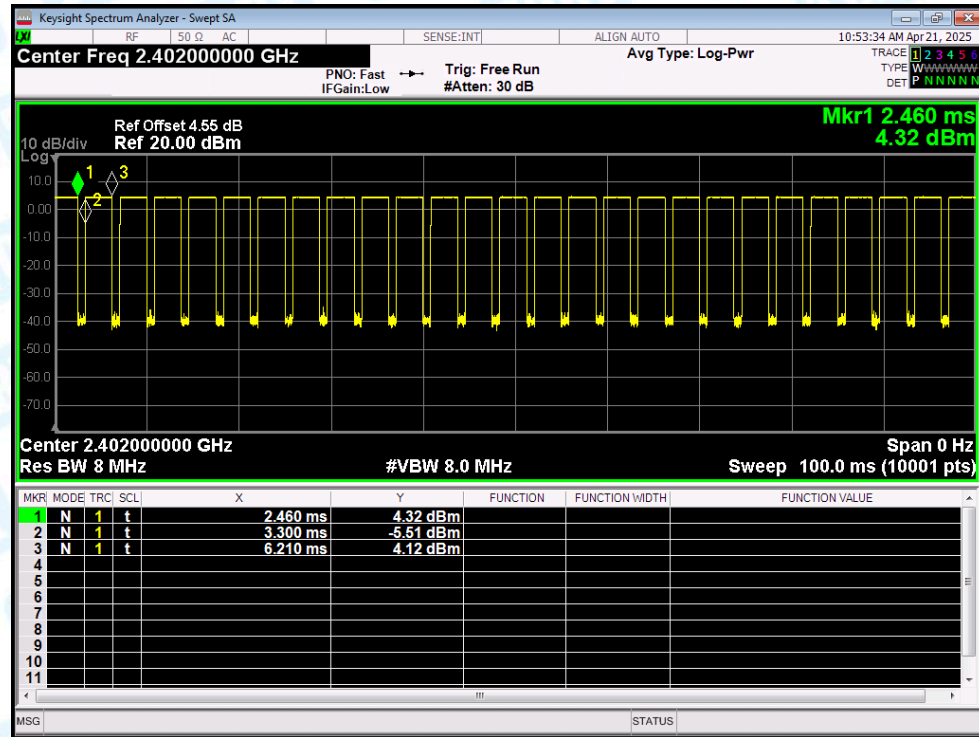
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1. Duty Cycle

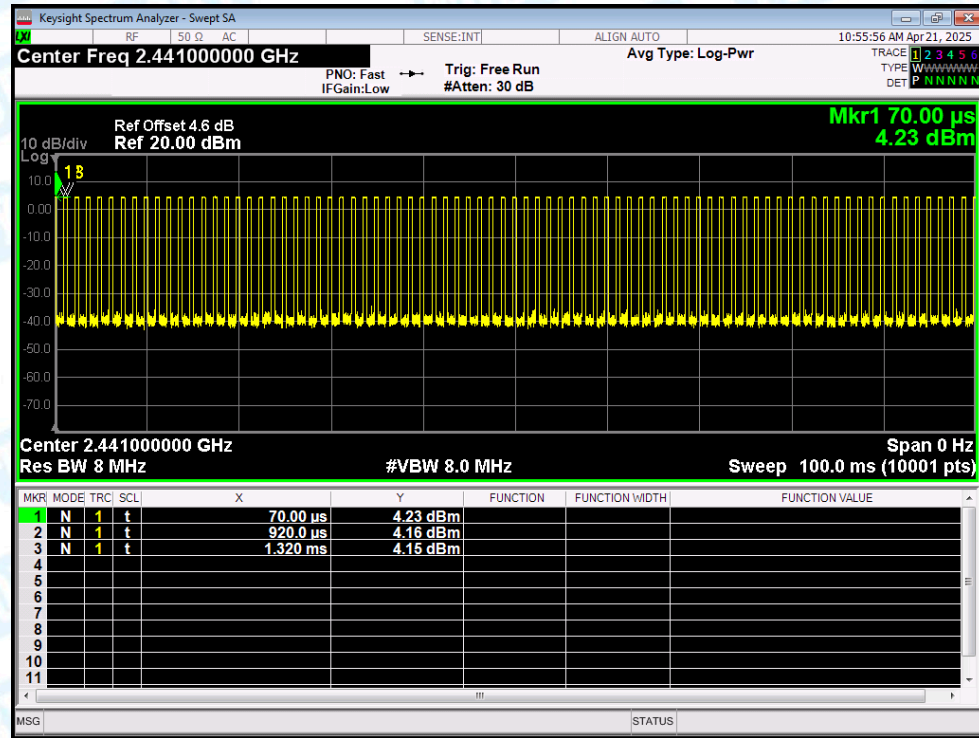
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH1	2441	Ant1	32	4.95	2.5
NVNT	1-DH1	2480	Ant1	32	4.95	2.5
NVNT	2-DH1	2402	Ant1	33.6	4.74	2.38
NVNT	2-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2480	Ant1	32.8	4.84	2.44

Test Graphs

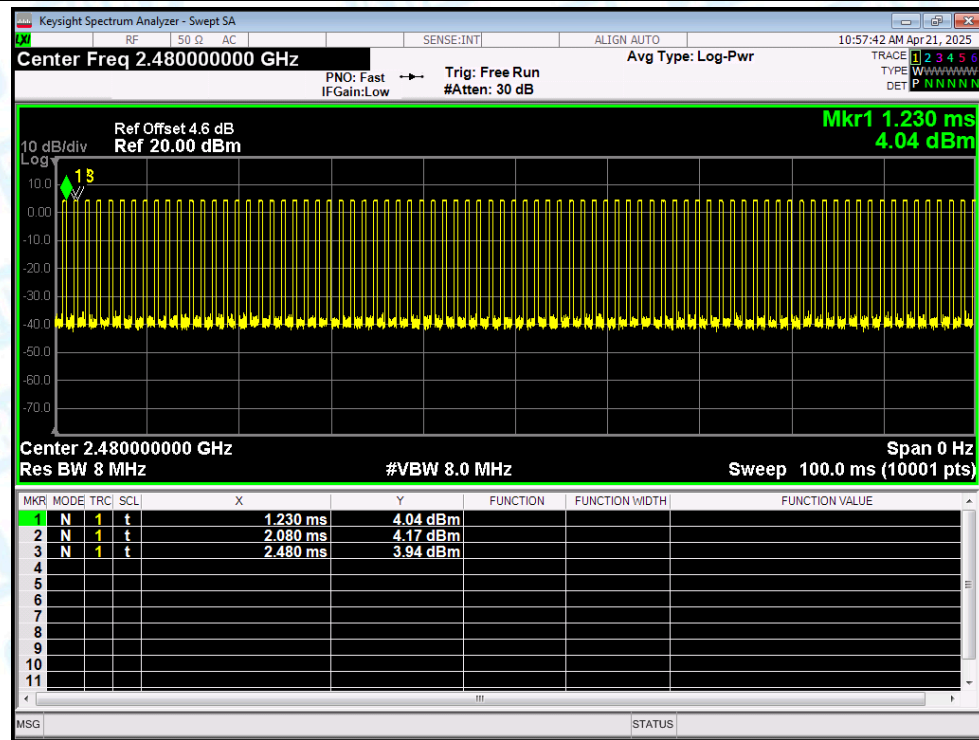
Duty Cycle NVNT 1-DH1 2402MHz Ant1



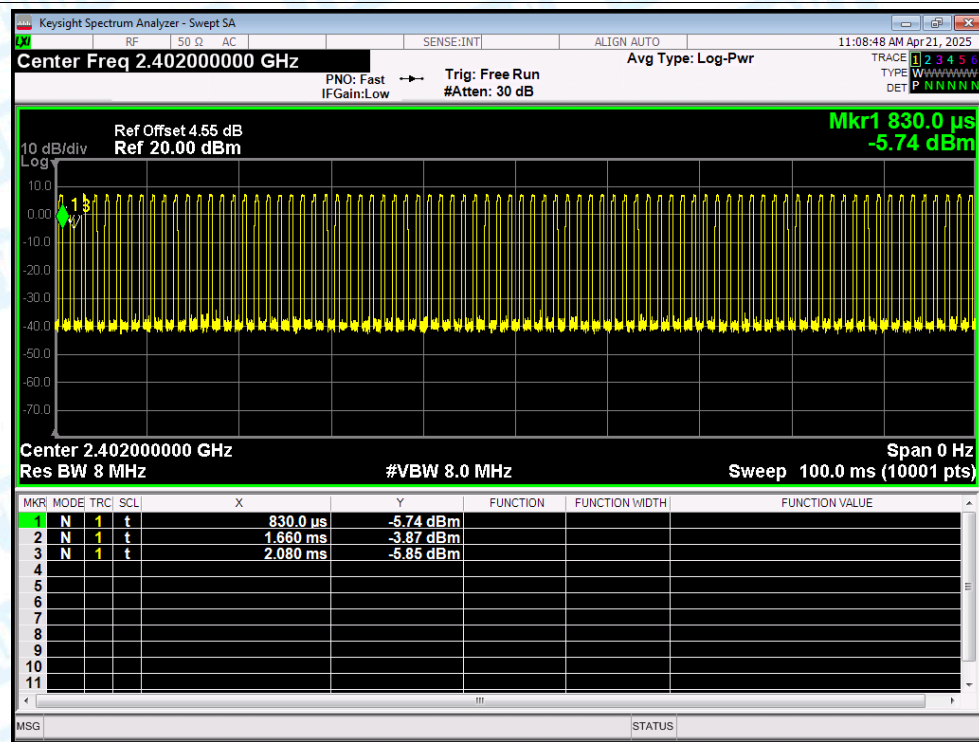
Duty Cycle NVNT 1-DH1 2441MHz Ant1



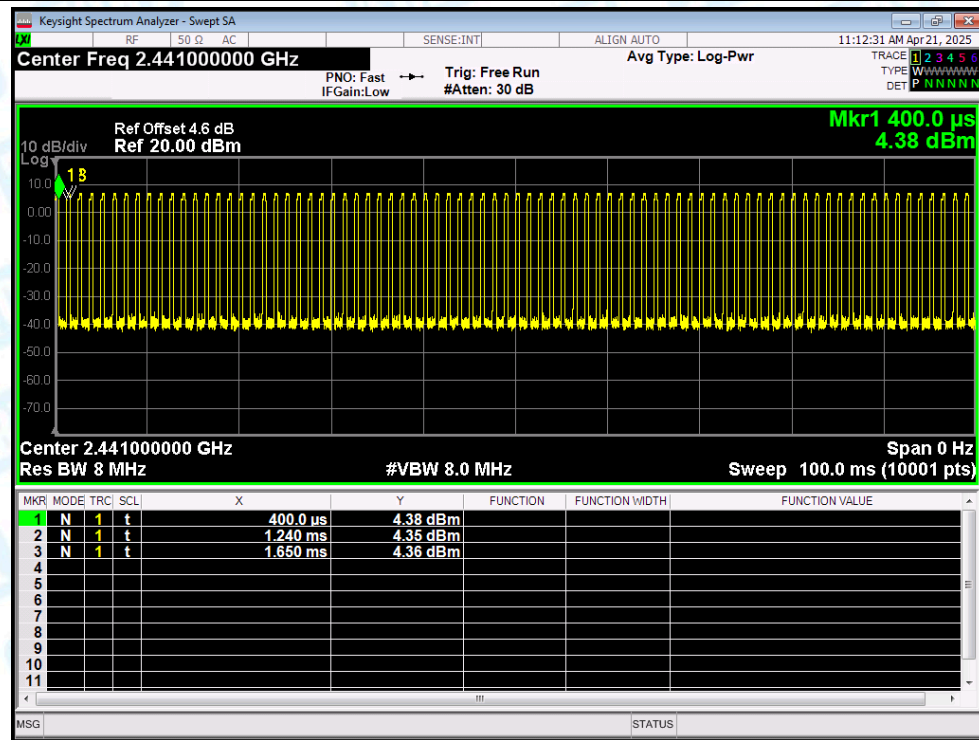
Duty Cycle NVNT 1-DH1 2480MHz Ant1



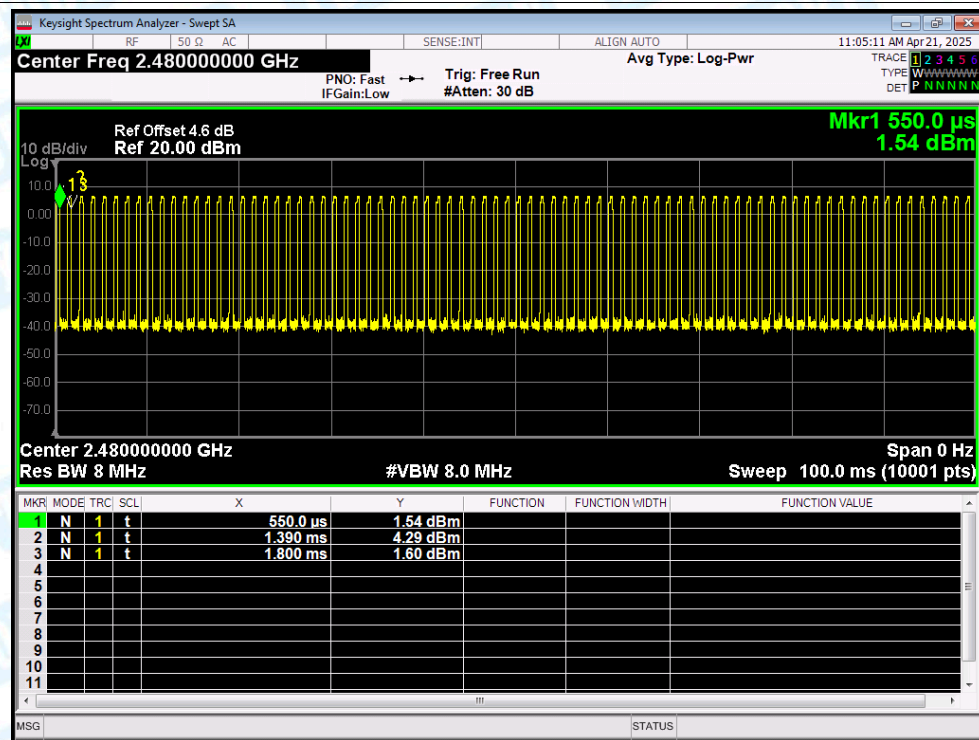
Duty Cycle NVNT 2-DH1 2402MHz Ant1



Duty Cycle NVNT 2-DH1 2441MHz Ant1



Duty Cycle NVNT 2-DH1 2480MHz Ant1

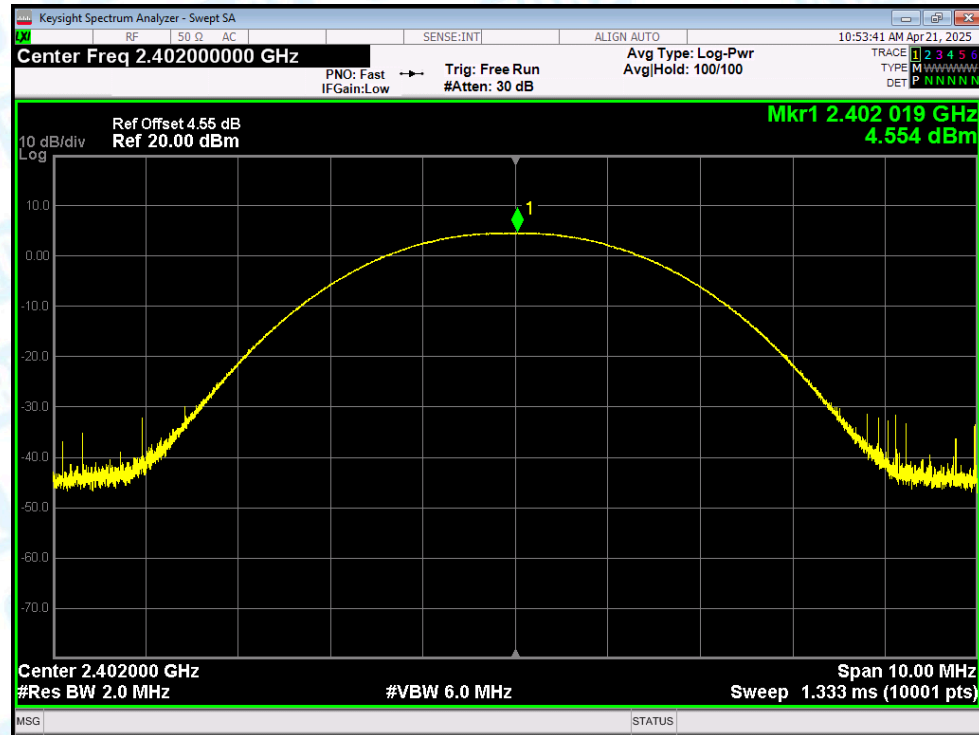


2. Maximum Conducted Output Power

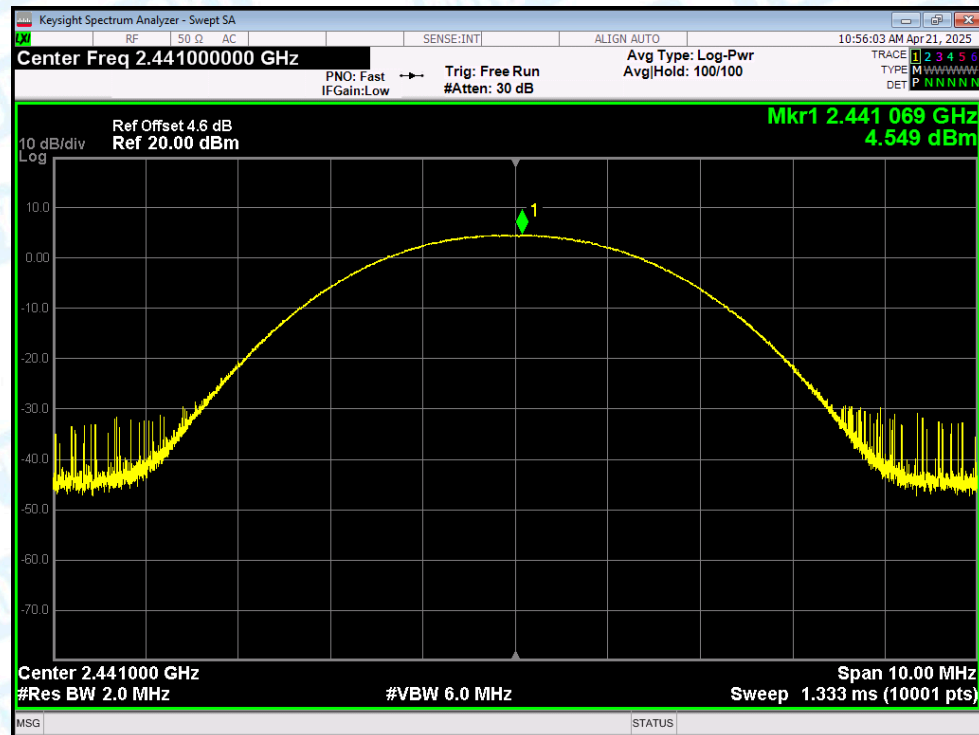
Left						
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	4.554	21	Pass
NVNT	1-DH1	2441	Ant1	4.549	21	Pass
NVNT	1-DH1	2480	Ant1	4.315	21	Pass
NVNT	1-DH3	2441	Ant1	4.65	21	Pass
NVNT	1-DH5	2441	Ant1	4.636	21	Pass
NVNT	2-DH1	2402	Ant1	6.893	21	Pass
NVNT	2-DH1	2441	Ant1	6.729	21	Pass
NVNT	2-DH1	2480	Ant1	6.349	21	Pass
NVNT	2-DH3	2441	Ant1	6.693	21	Pass
NVNT	2-DH5	2441	Ant1	6.773	21	Pass
Right						
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	5.735	21	Pass
NVNT	1-DH1	2441	Ant1	5.686	21	Pass
NVNT	1-DH1	2480	Ant1	5.305	21	Pass
NVNT	1-DH3	2441	Ant1	5.905	21	Pass
NVNT	1-DH5	2441	Ant1	5.781	21	Pass
NVNT	2-DH1	2402	Ant1	5.063	21	Pass
NVNT	2-DH1	2441	Ant1	5.076	21	Pass
NVNT	2-DH1	2480	Ant1	4.479	21	Pass
NVNT	2-DH3	2441	Ant1	4.814	21	Pass
NVNT	2-DH5	2441	Ant1	4.973	21	Pass

Test Graphs

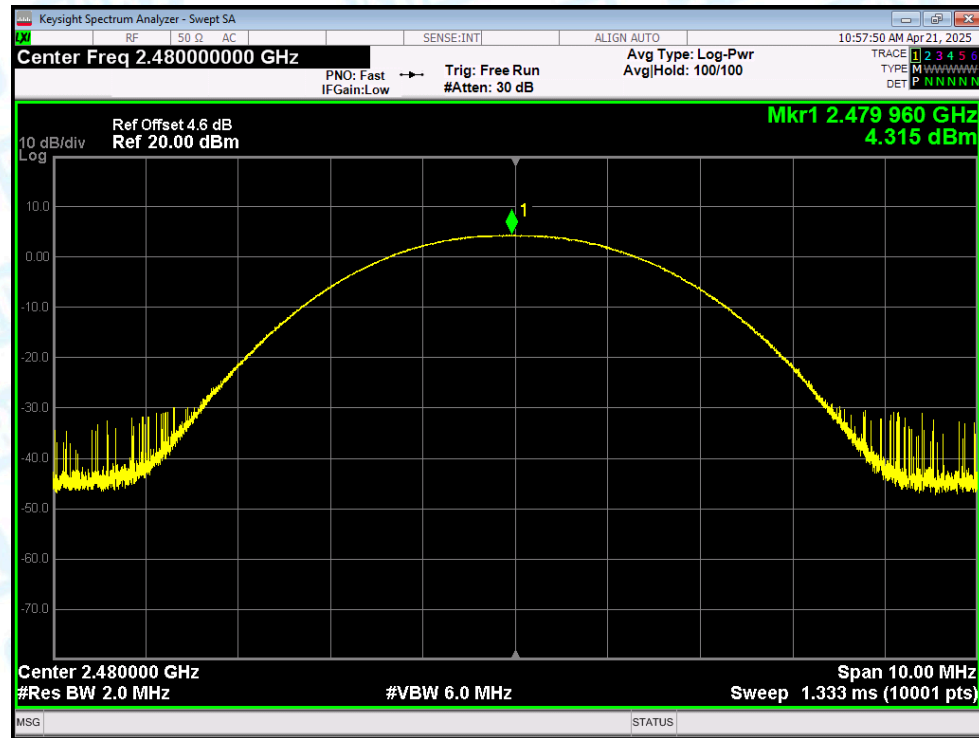
Power NVNT 1-DH1 2402MHz Ant1



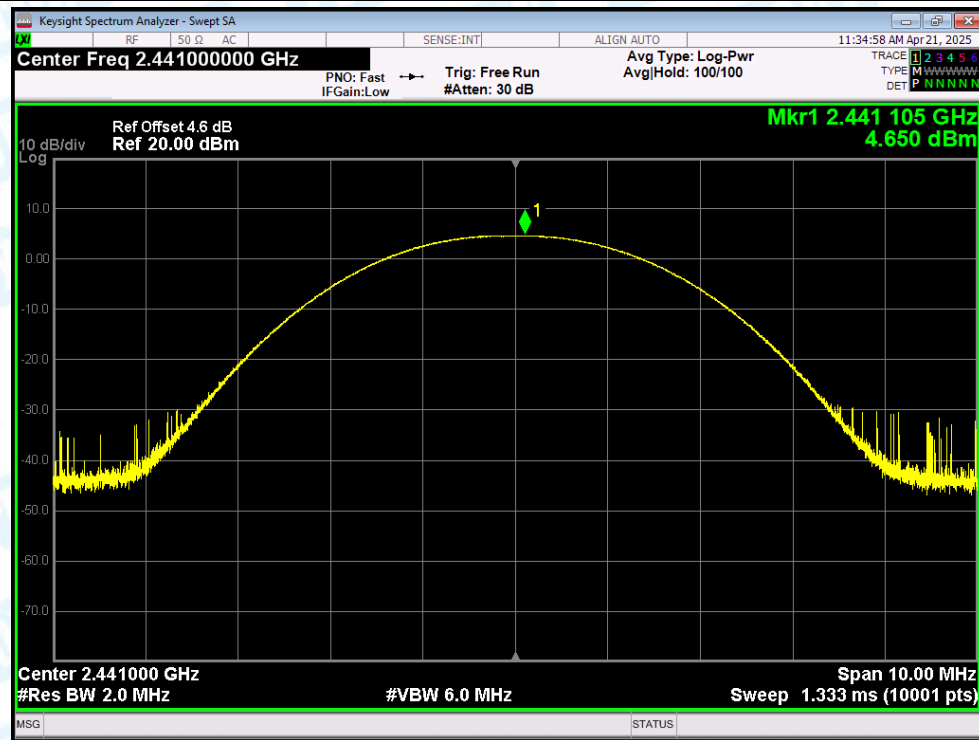
Power NVNT 1-DH1 2441MHz Ant1



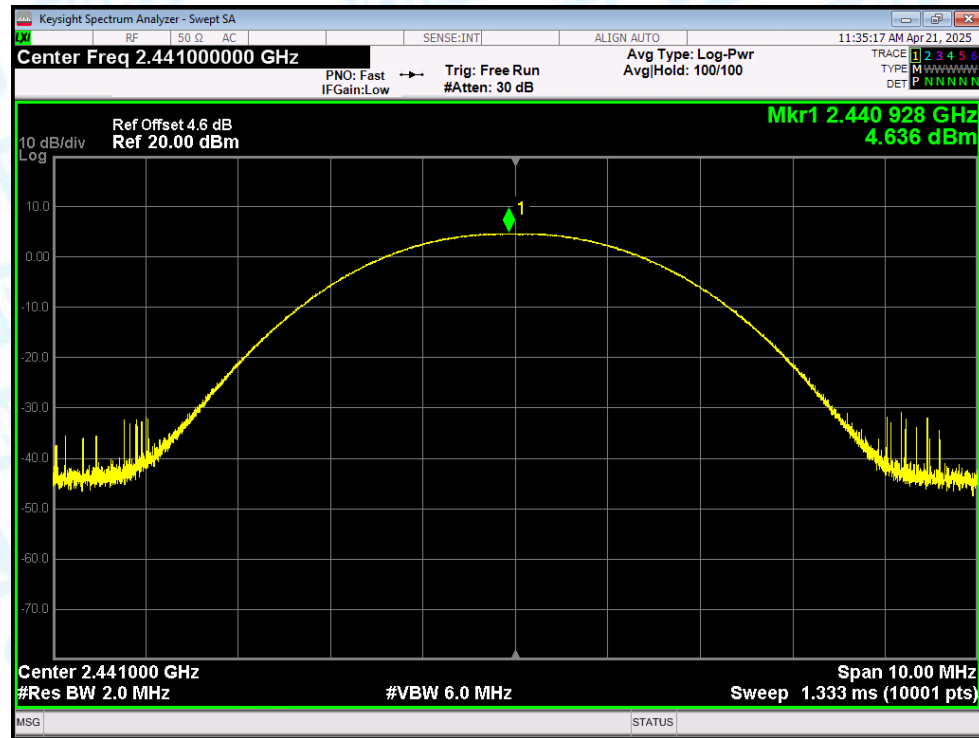
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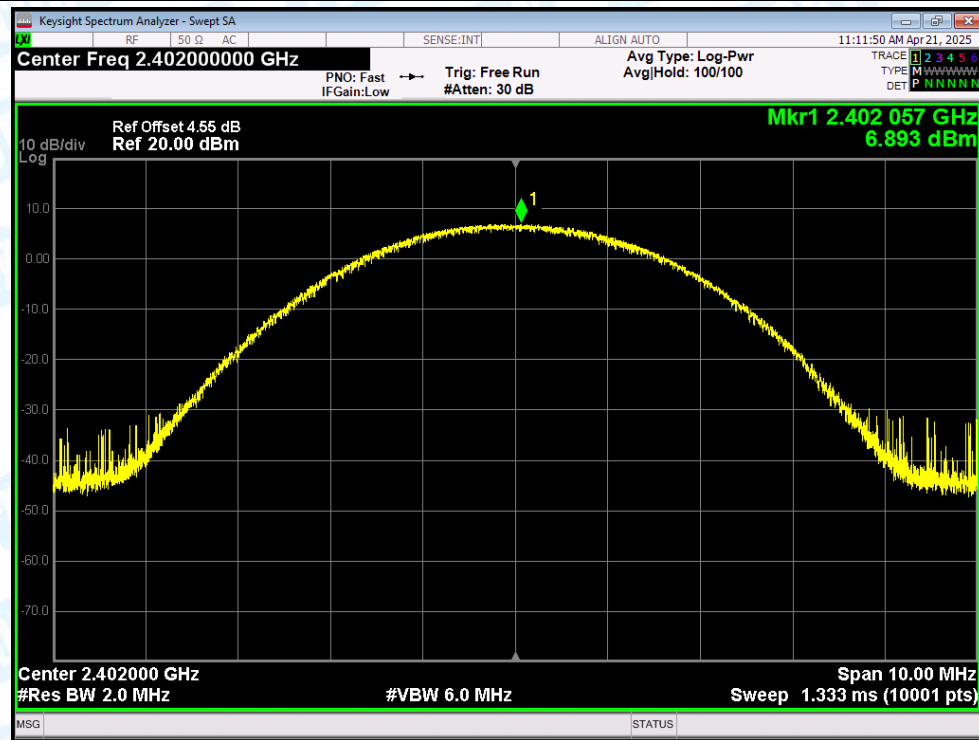
Power NVNT 1-DH3 2441MHz Ant1



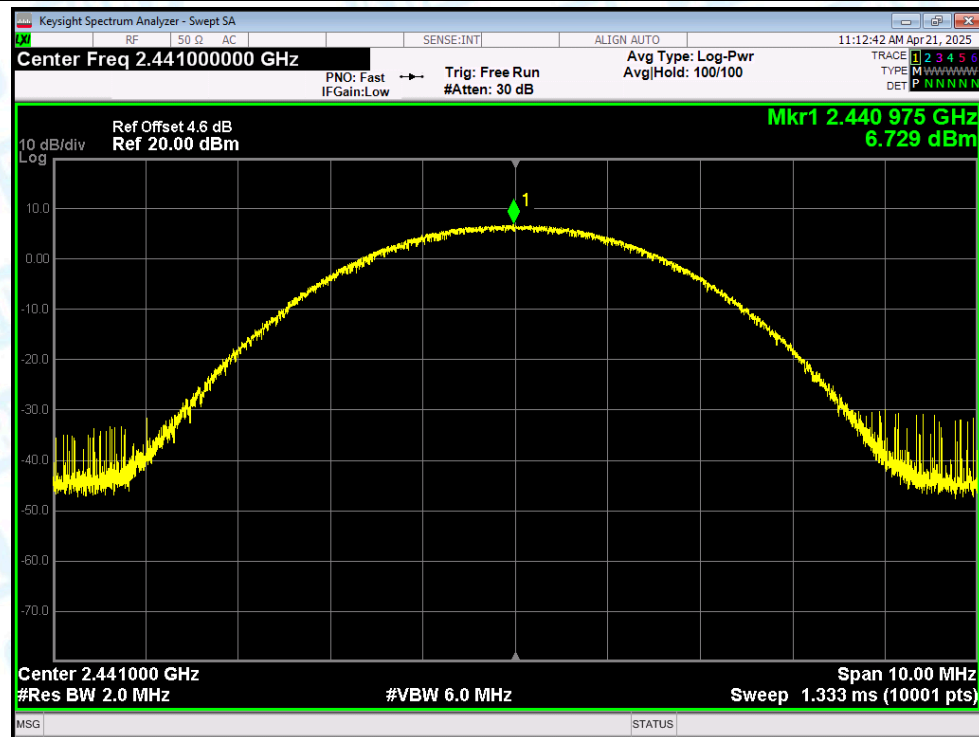
Power NVNT 1-DH5 2441MHz Ant1



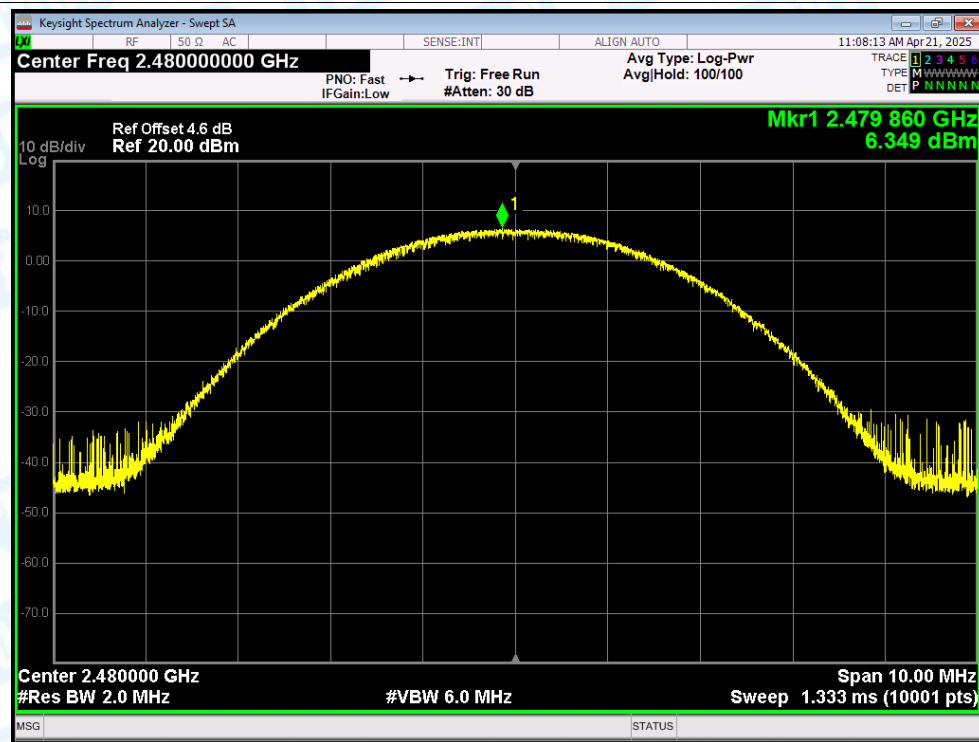
Power NVNT 2-DH1 2402MHz Ant1



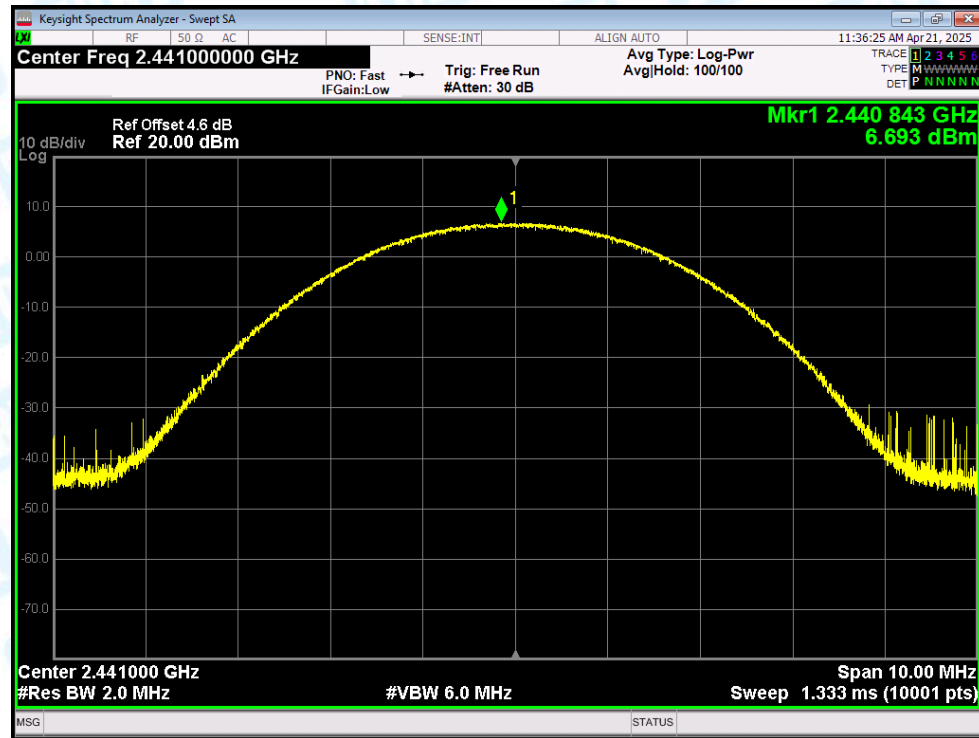
Power NVNT 2-DH1 2441MHz Ant1



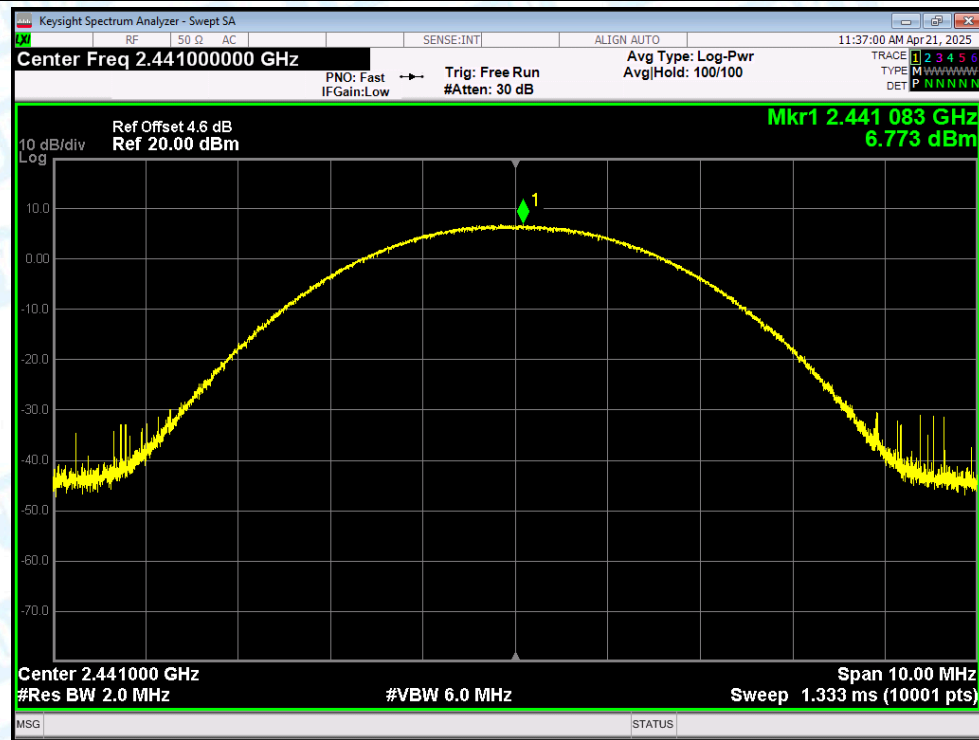
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1

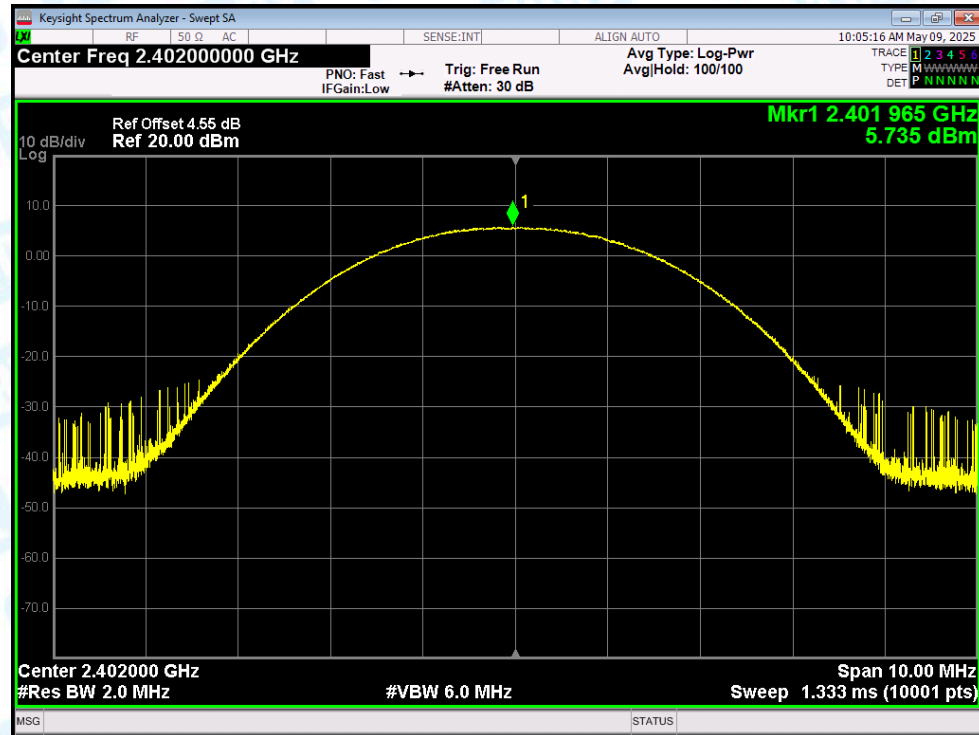


Power NVNT 2-DH5 2441MHz Ant1

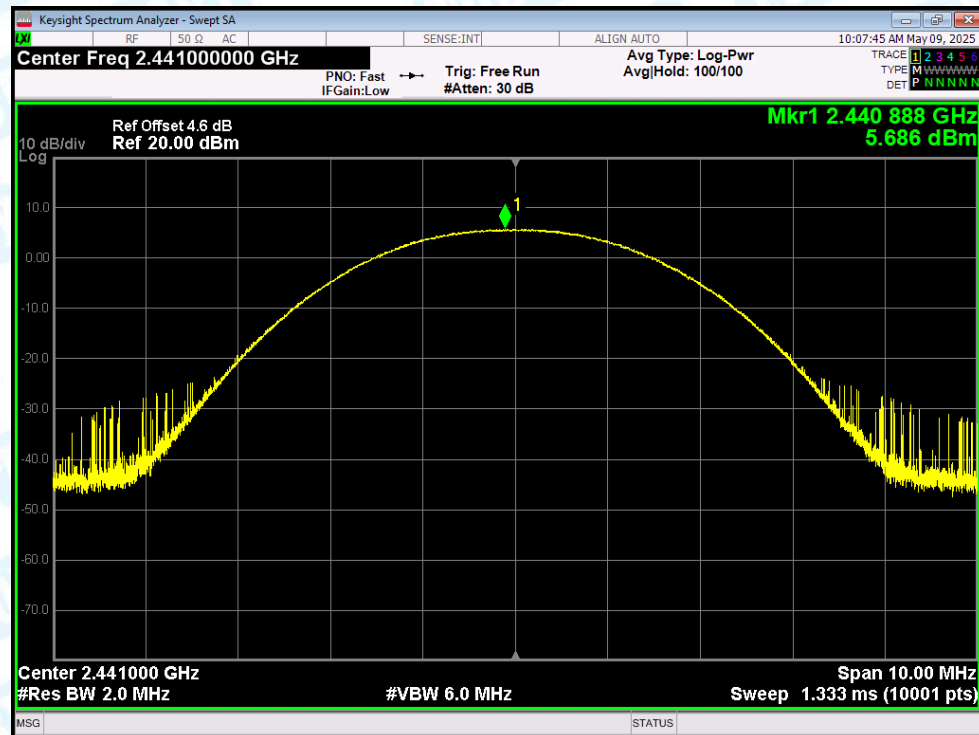


Test Graphs

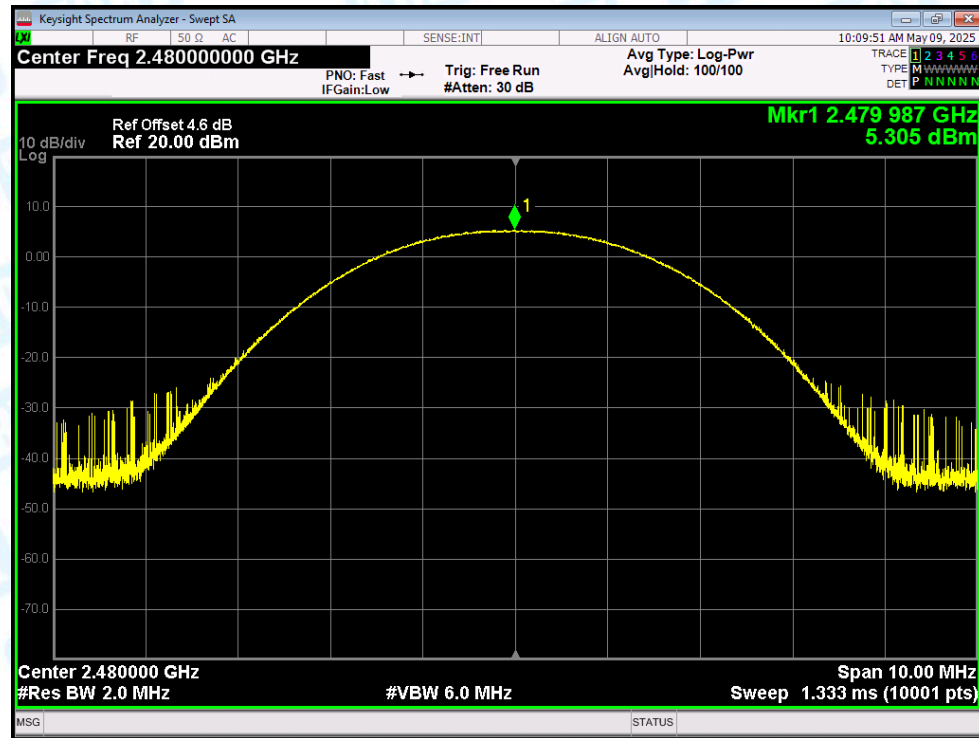
Power NVNT 1-DH1 2402MHz Ant1



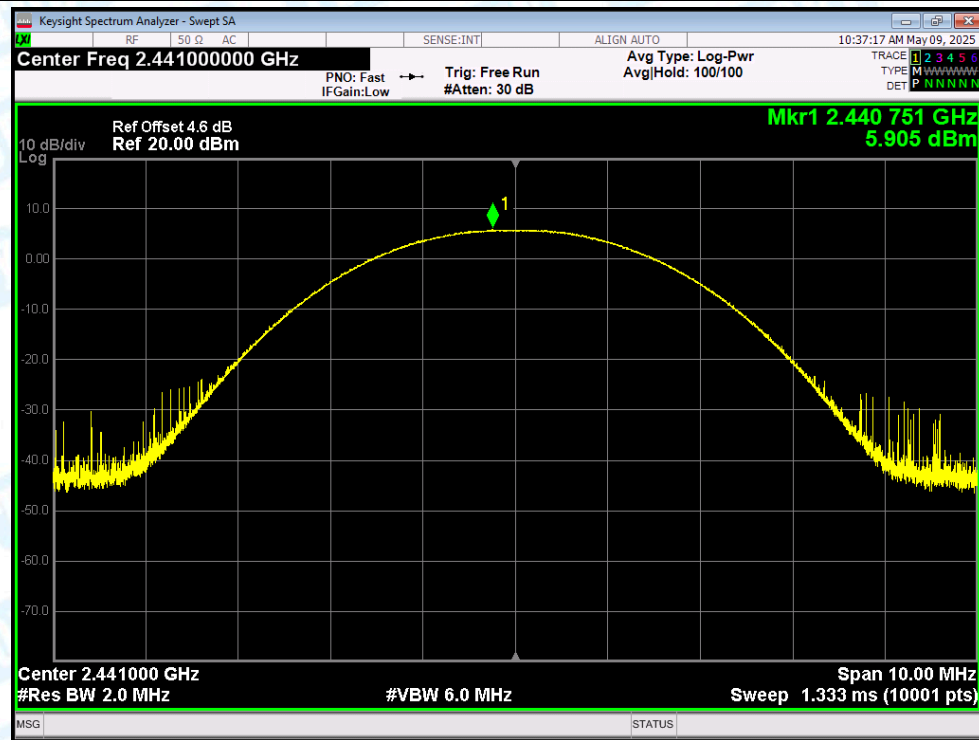
Power NVNT 1-DH1 2441MHz Ant1



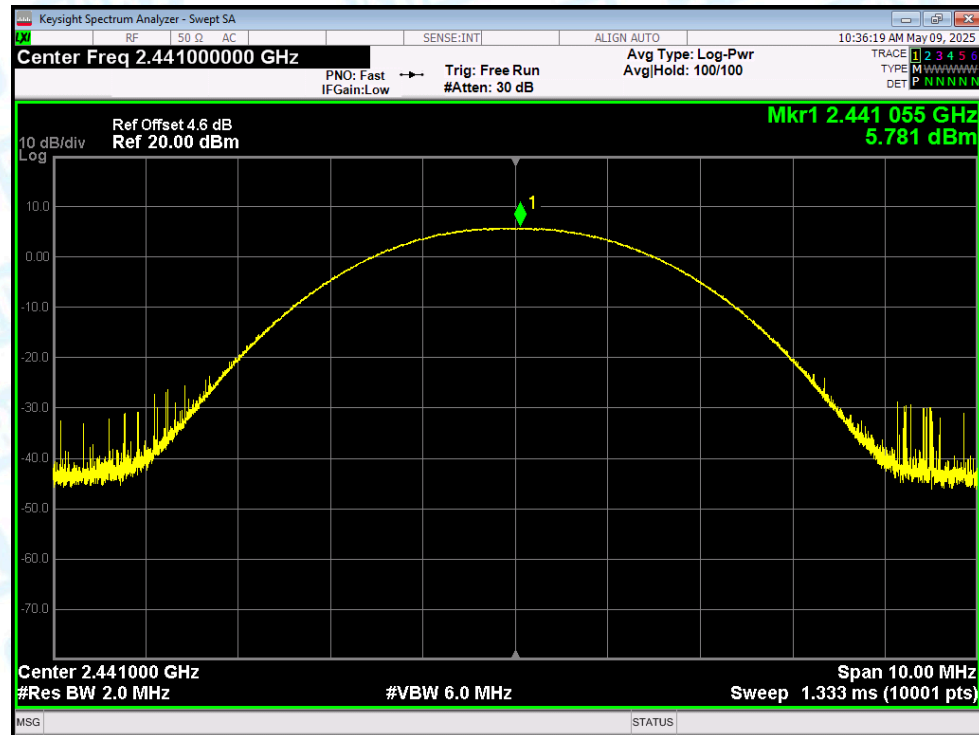
Power NVNT 1-DH1 2480MHz Ant1



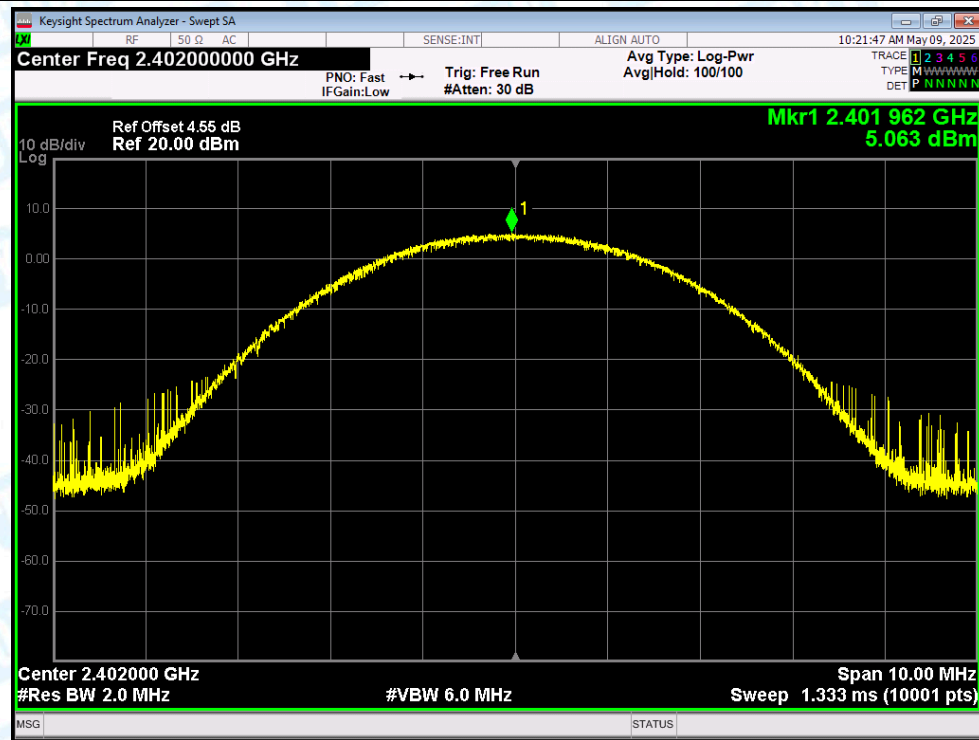
Power NVNT 1-DH3 2441MHz Ant1



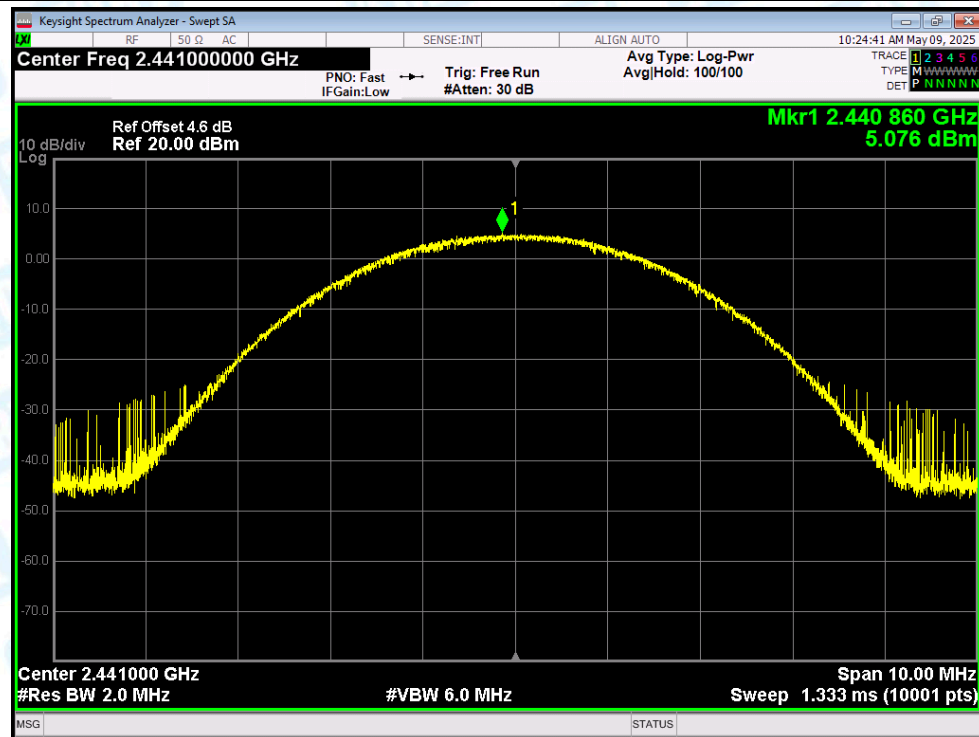
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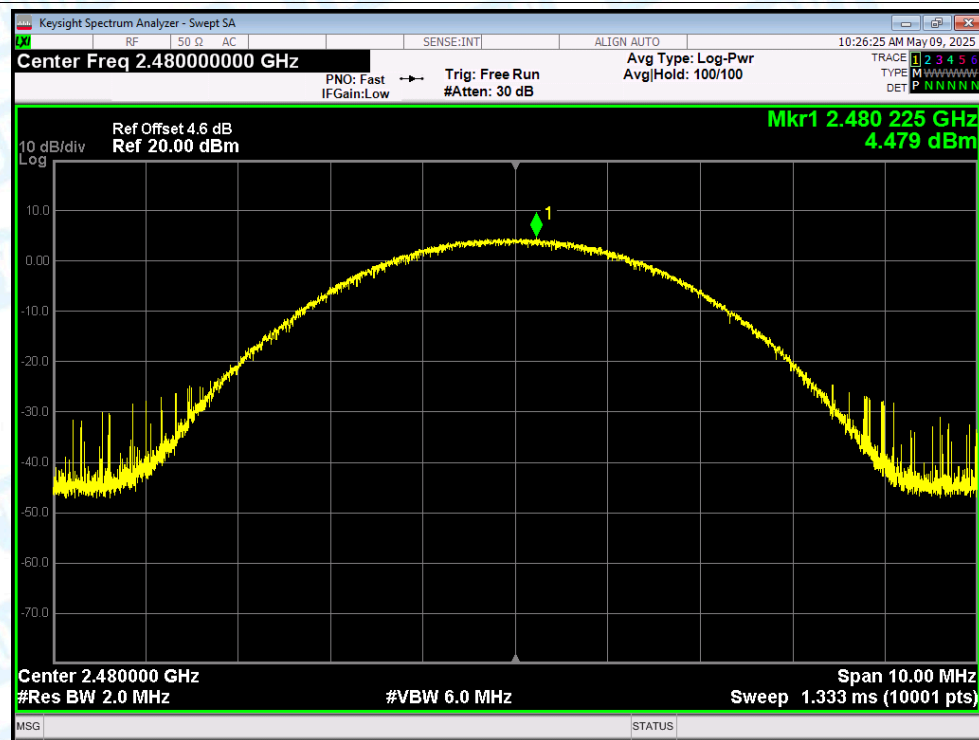
Power NVNT 2-DH1 2402MHz Ant1



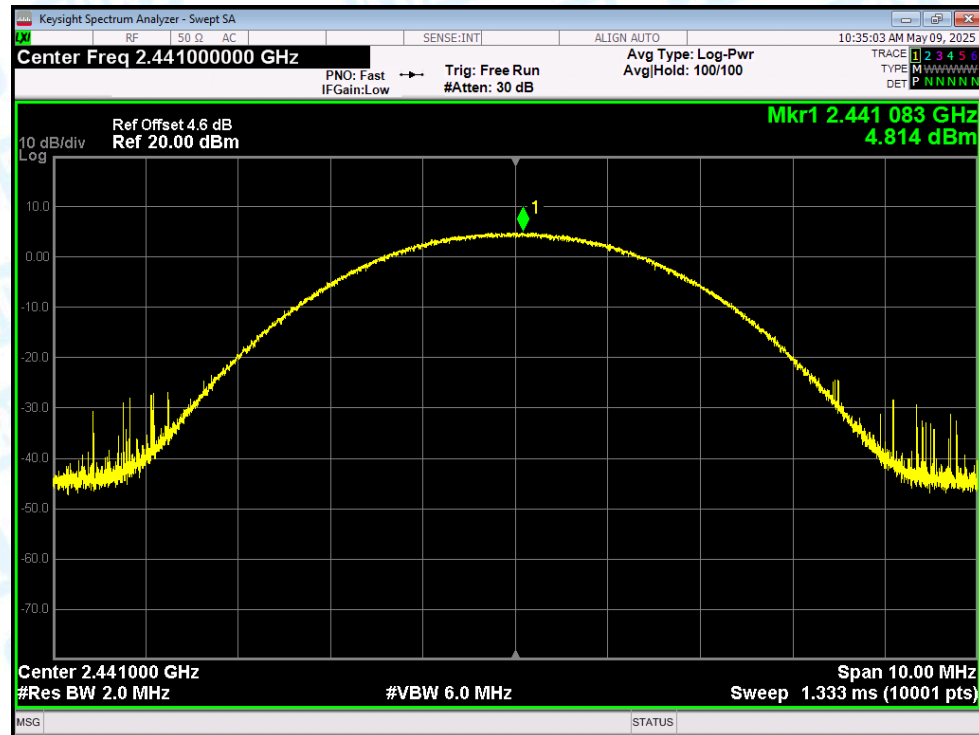
Power NVNT 2-DH1 2441MHz Ant1



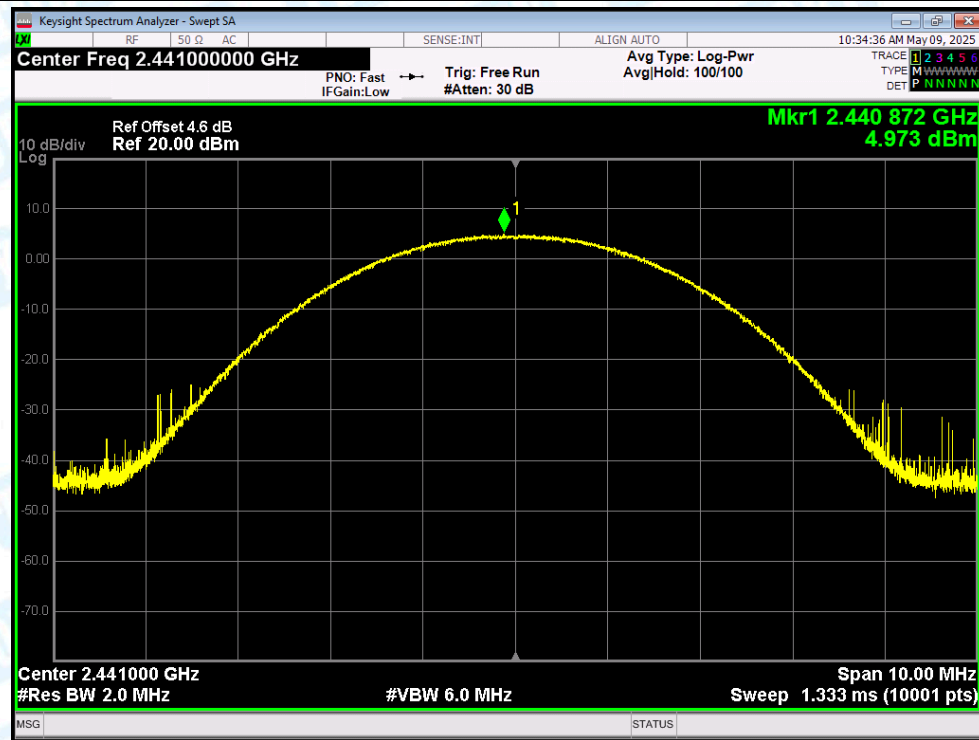
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1

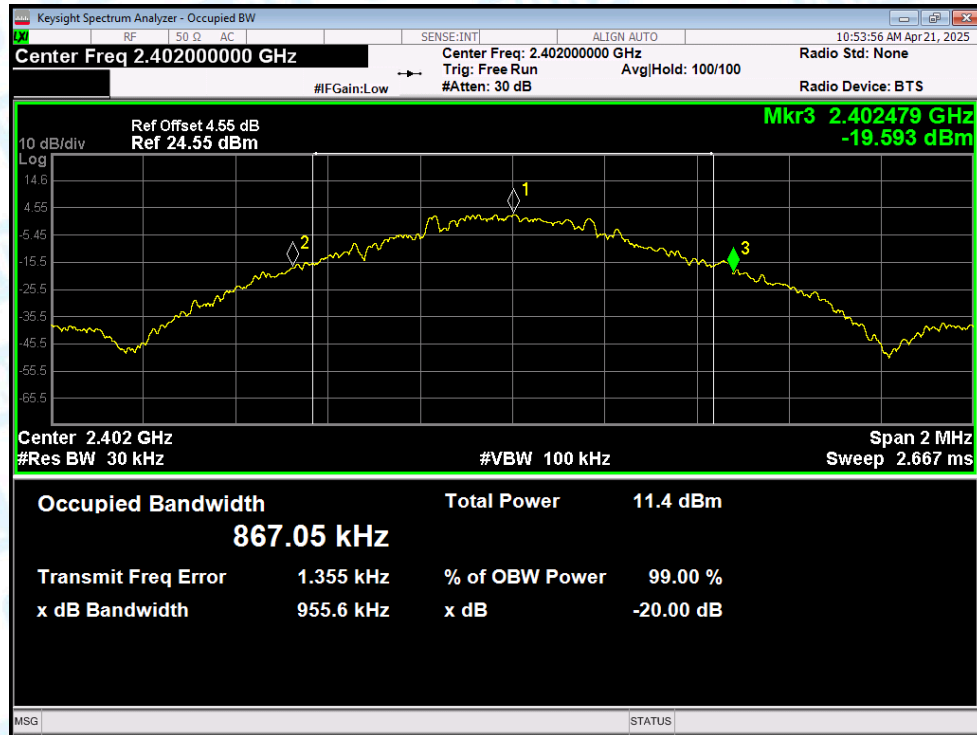


3. -20dB Bandwidth

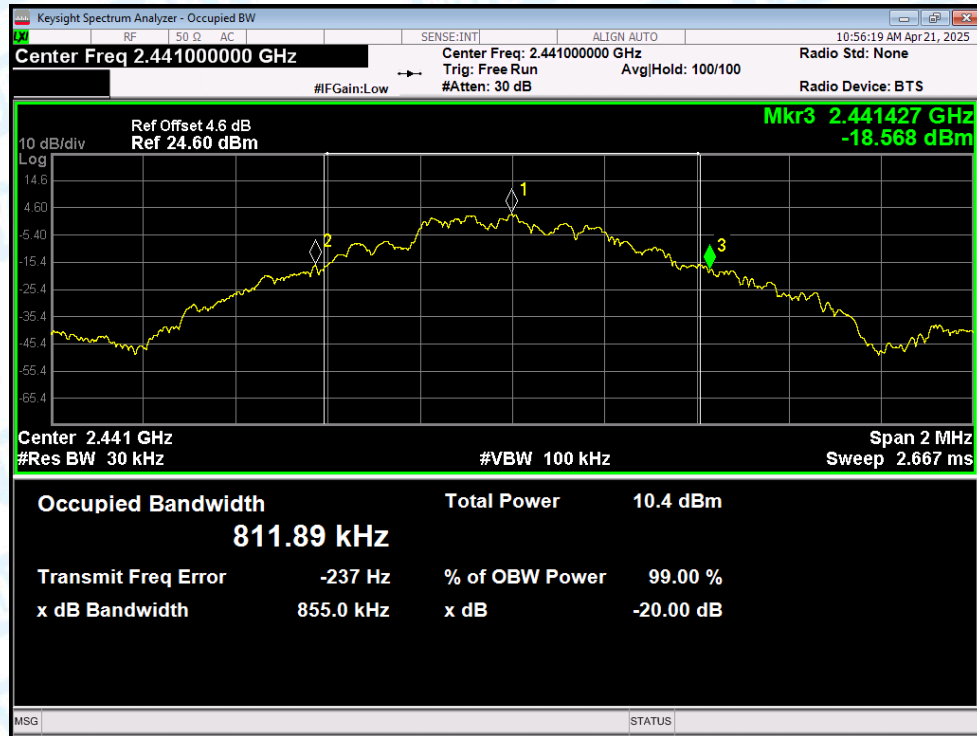
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.96	0	Pass
NVNT	1-DH1	2441	Ant1	0.86	0	Pass
NVNT	1-DH1	2480	Ant1	0.93	0	Pass
NVNT	2-DH1	2402	Ant1	1.26	0	Pass
NVNT	2-DH1	2441	Ant1	1.27	0	Pass
NVNT	2-DH1	2480	Ant1	1.28	0	Pass

Test Graphs

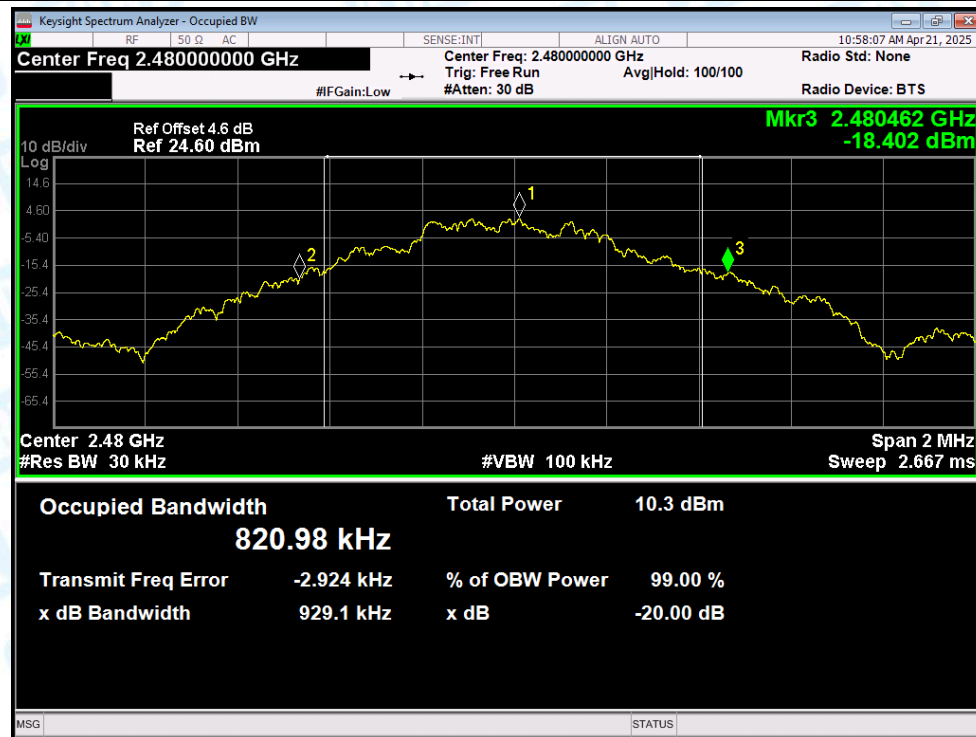
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



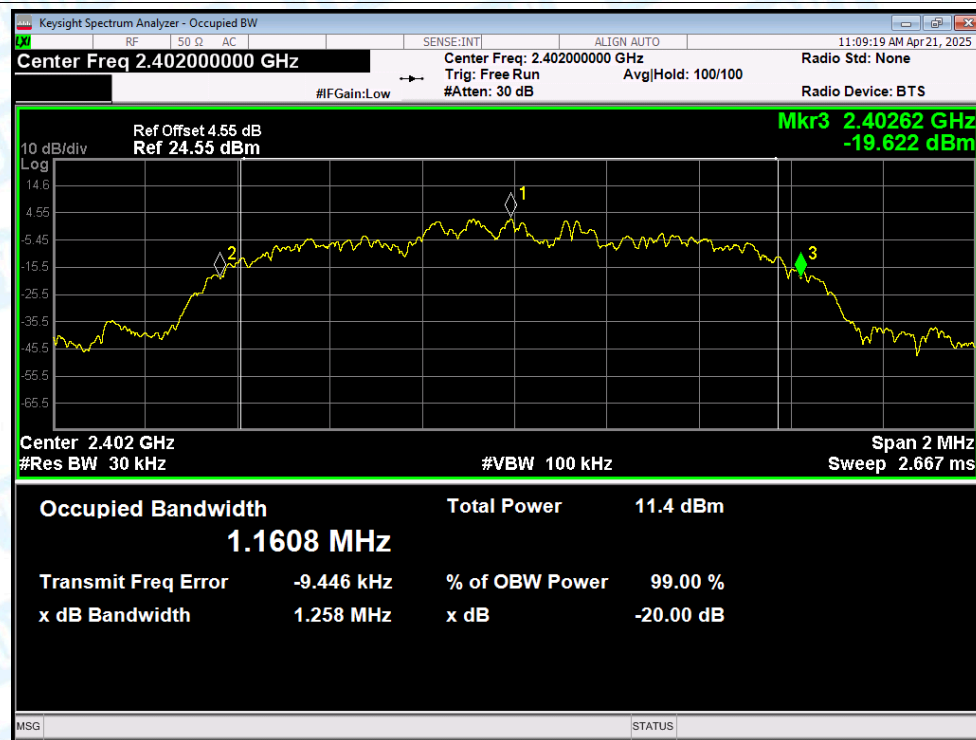
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



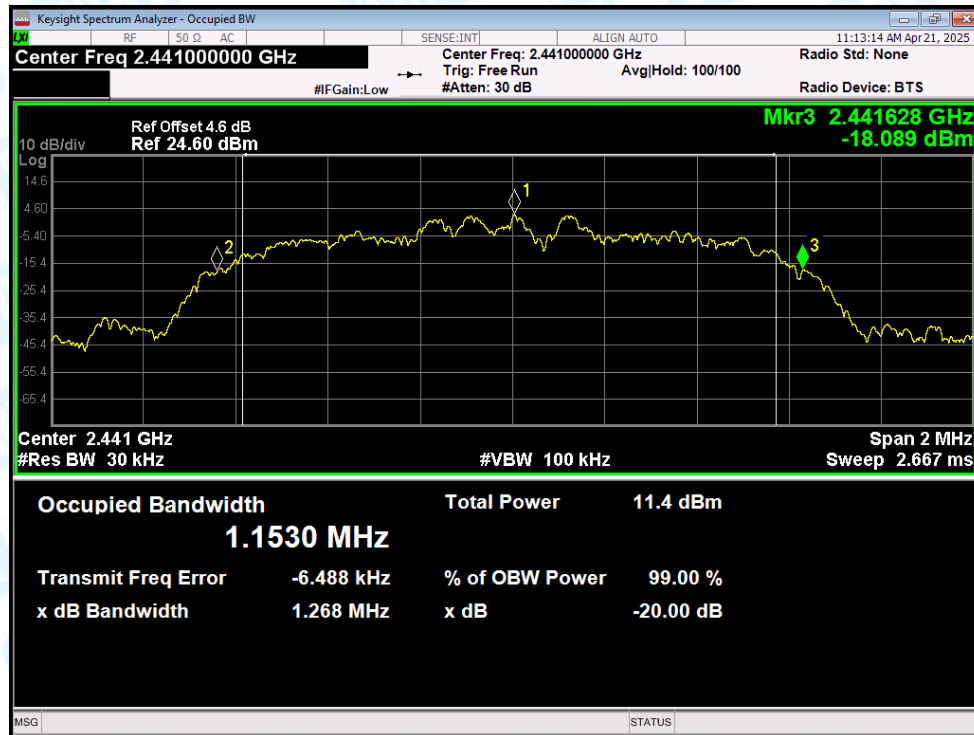
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



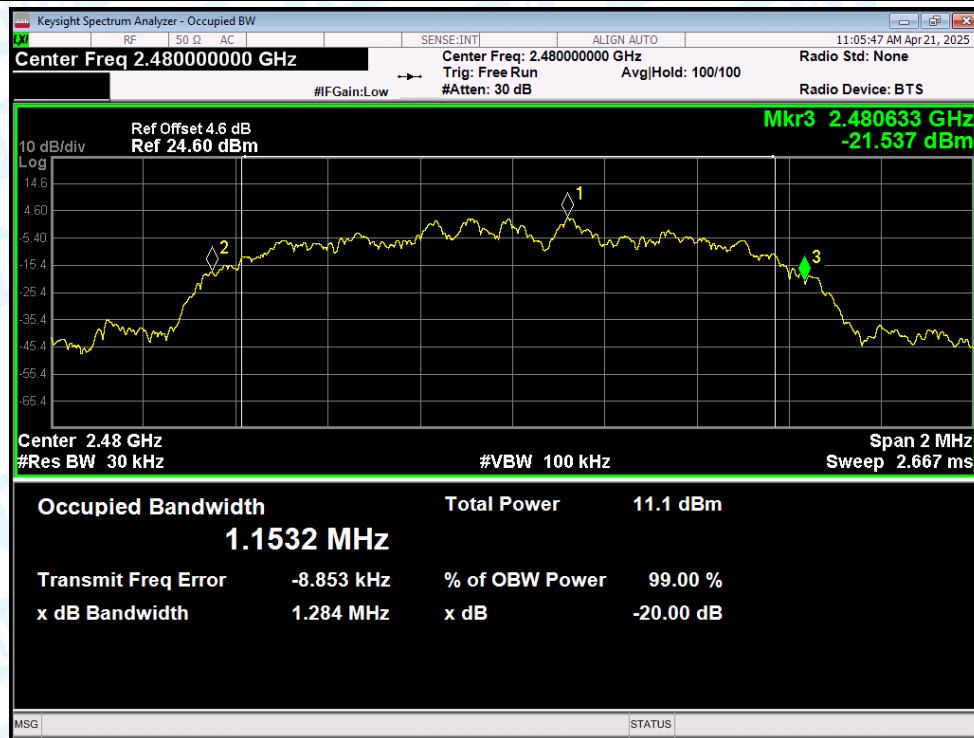
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

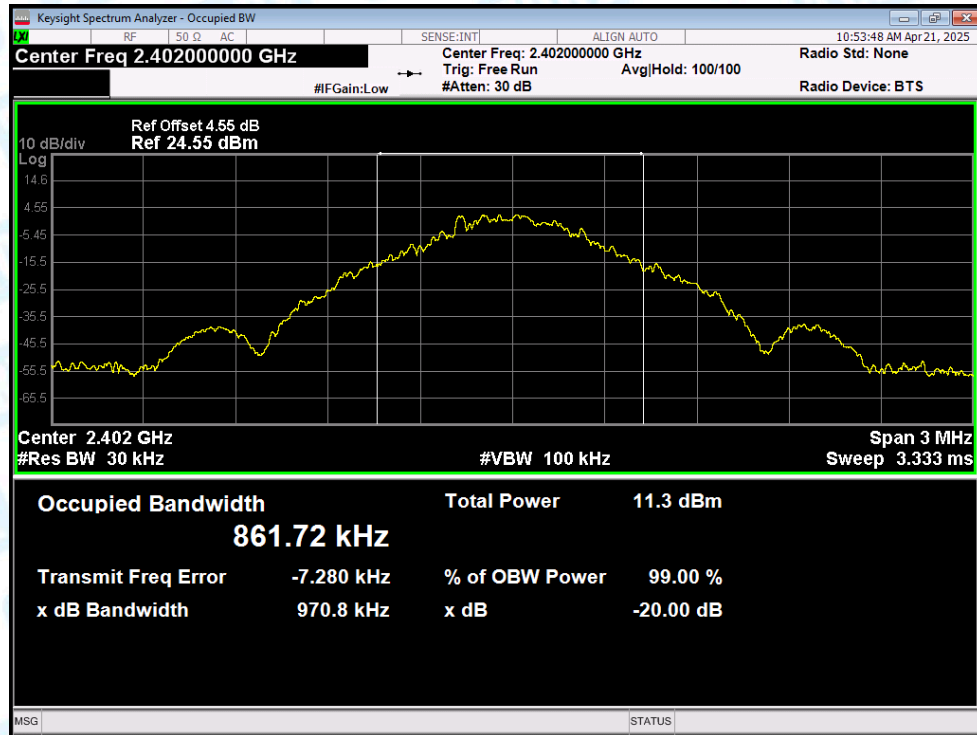


4. Occupied Channel Bandwidth

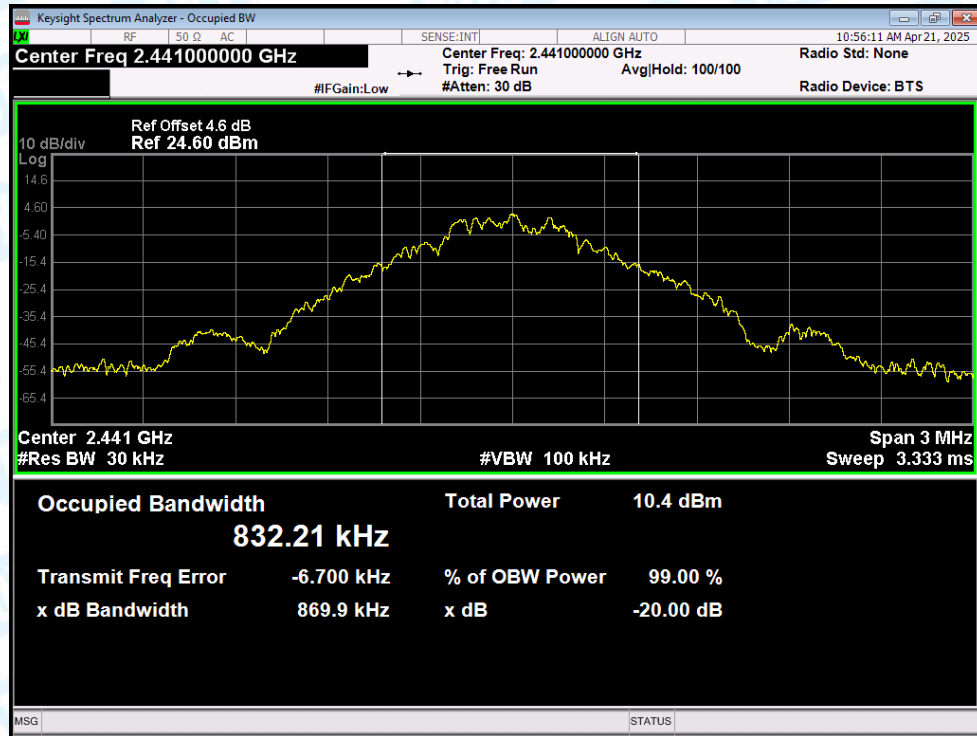
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.862
NVNT	1-DH1	2441	Ant1	0.832
NVNT	1-DH1	2480	Ant1	0.823
NVNT	2-DH1	2402	Ant1	1.16
NVNT	2-DH1	2441	Ant1	1.159
NVNT	2-DH1	2480	Ant1	1.148

Test Graphs

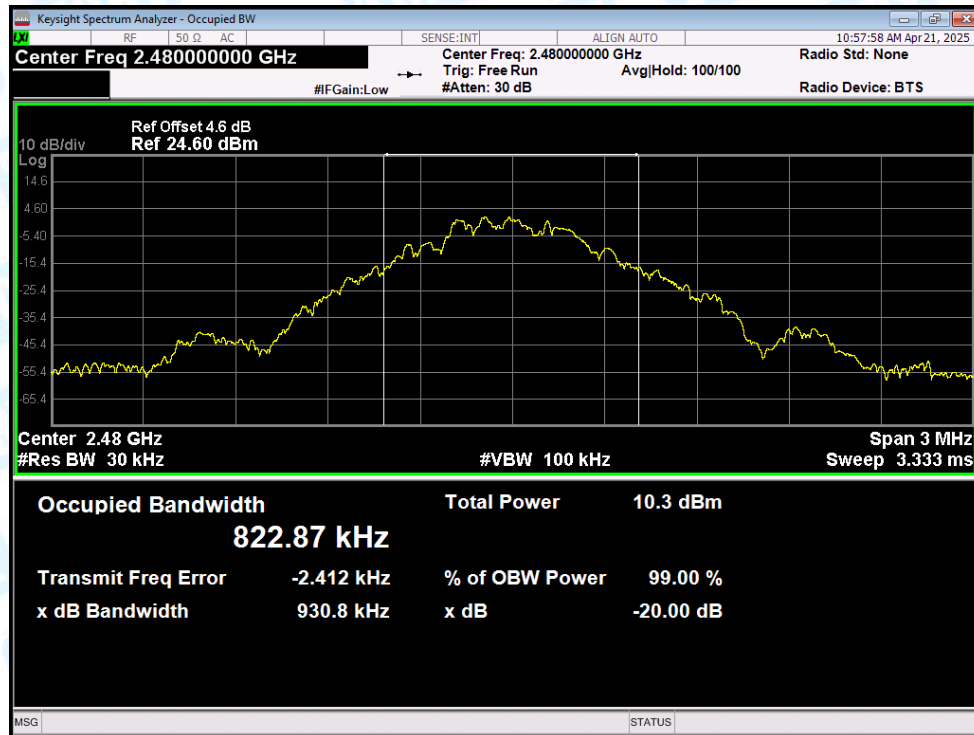
OBW NVNT 1-DH1 2402MHz Ant1



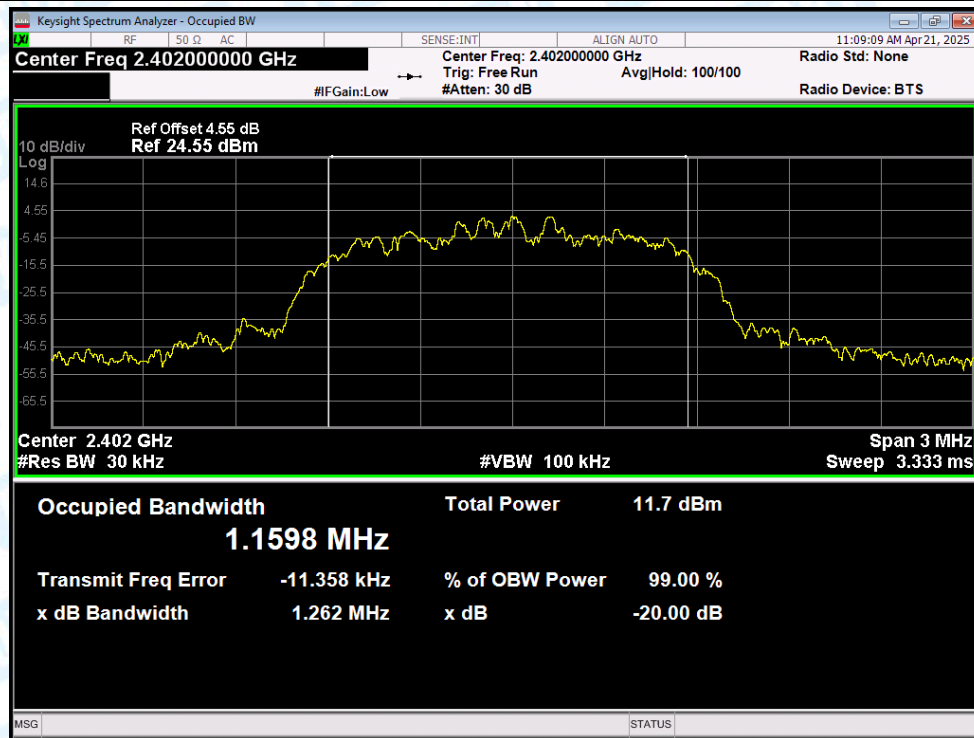
OBW NVNT 1-DH1 2441MHz Ant1



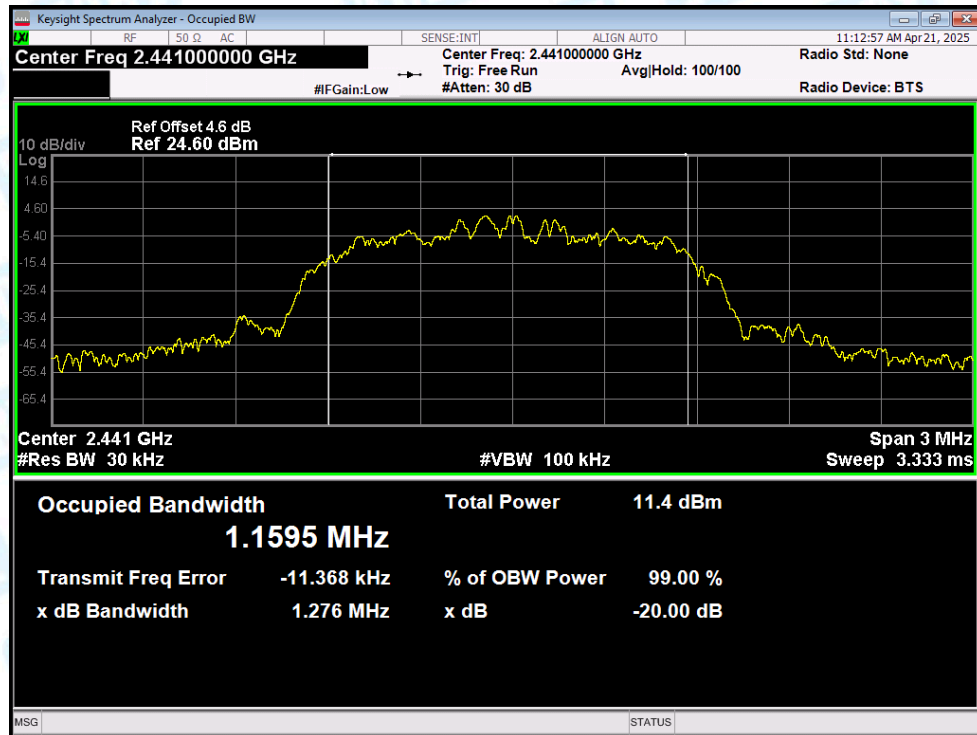
OBW NVNT 1-DH1 2480MHz Ant1



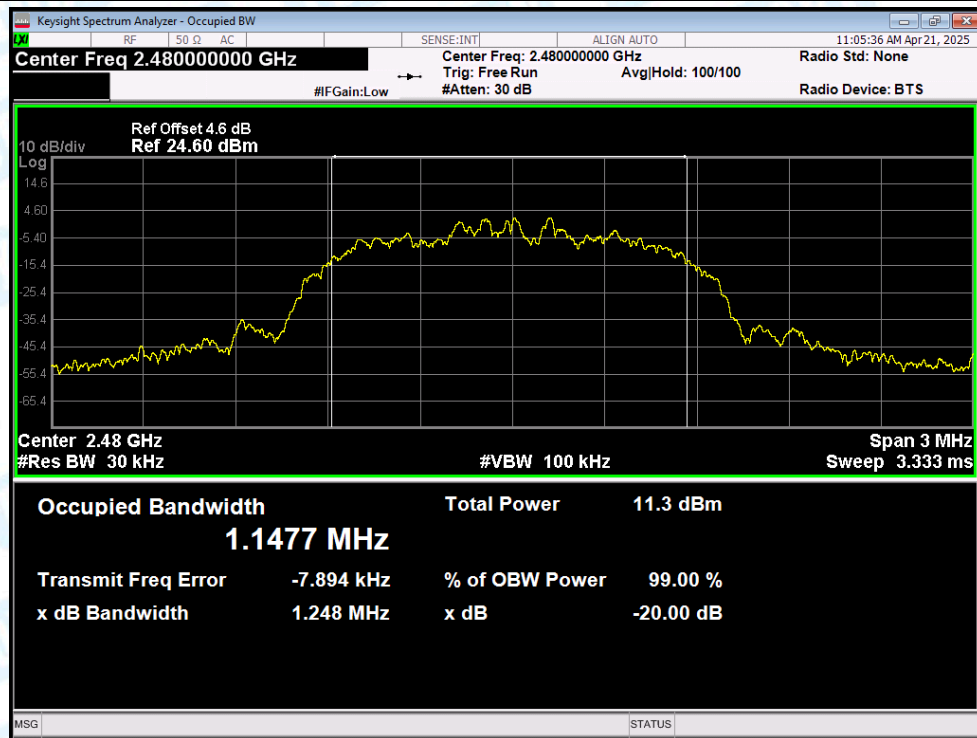
OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



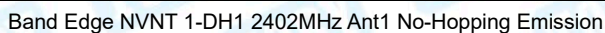
OBW NVNT 2-DH1 2480MHz Ant1



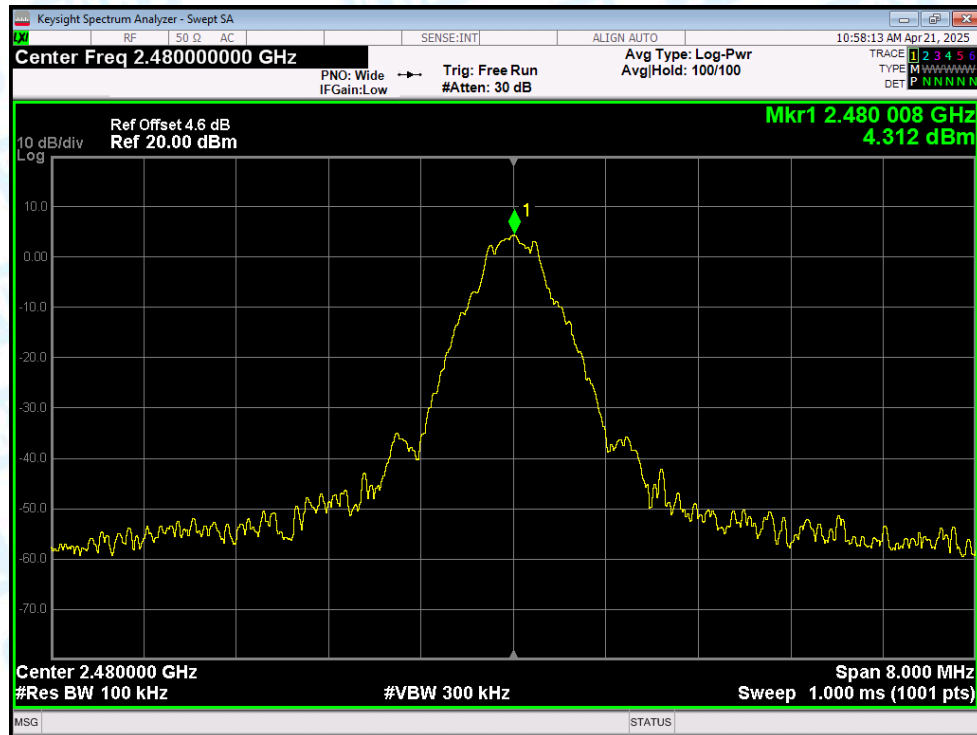
5. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-58.61	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-57.82	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-59.25	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-57.79	-20	Pass

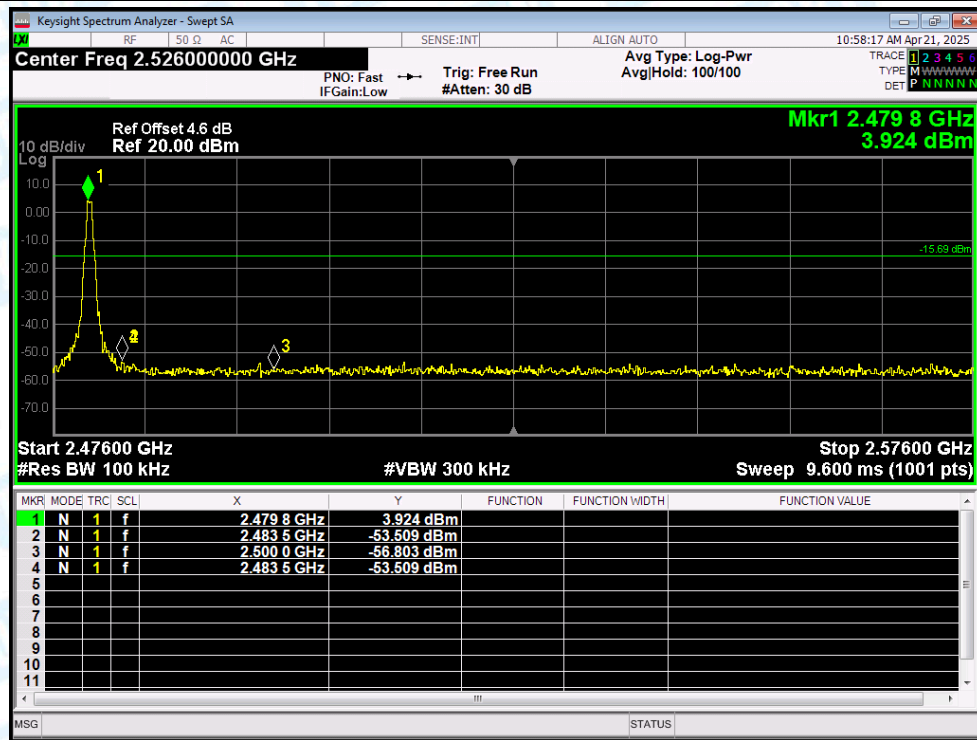
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



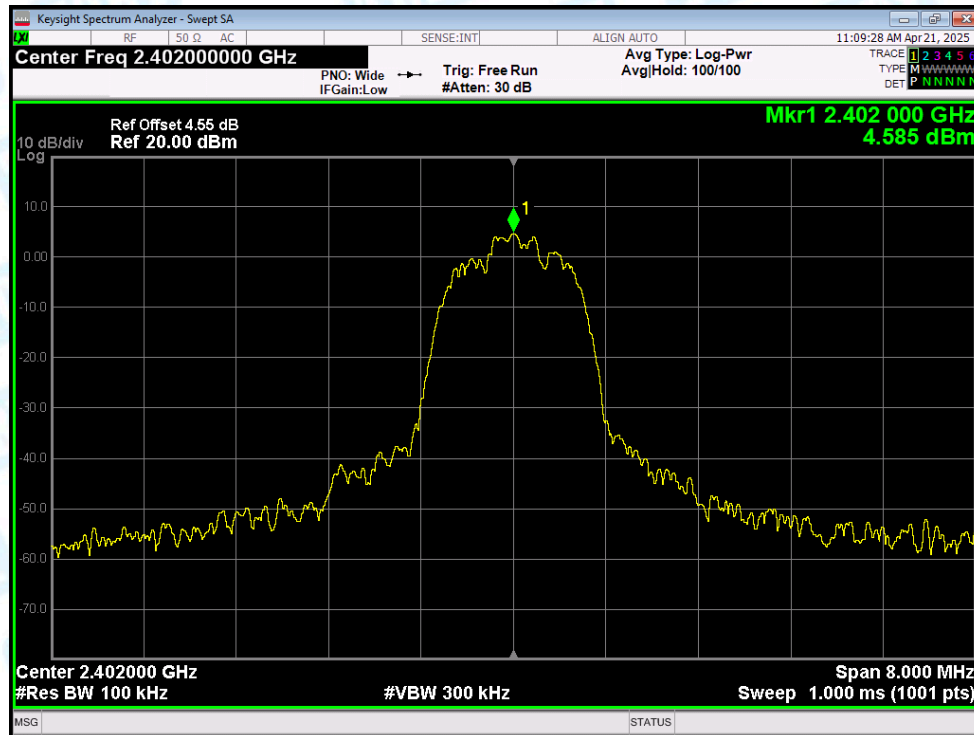
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



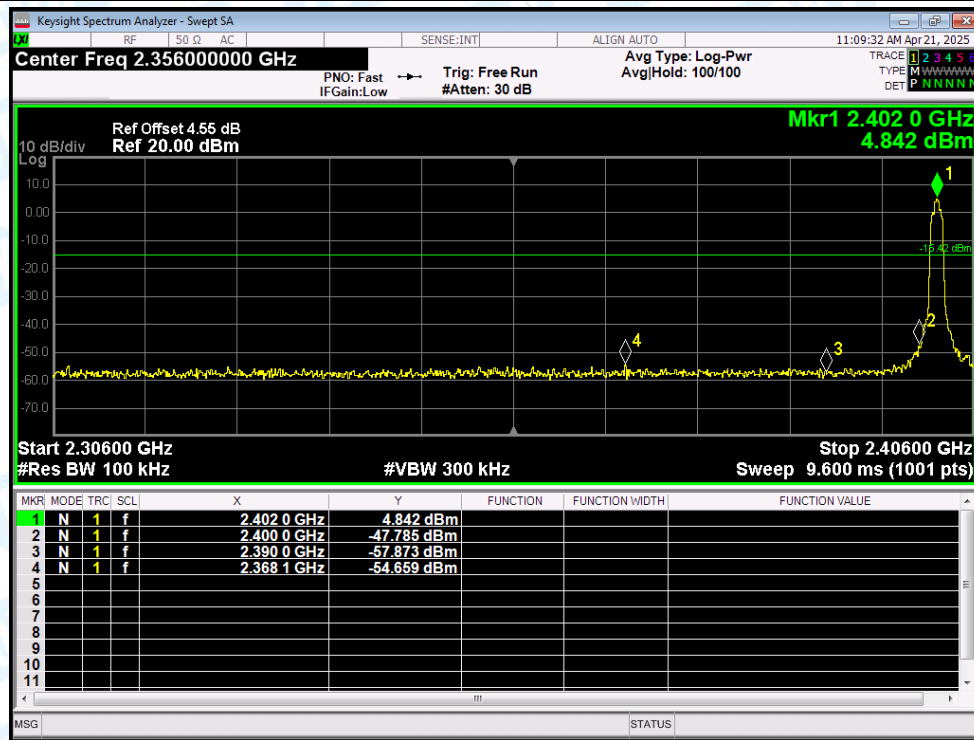
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



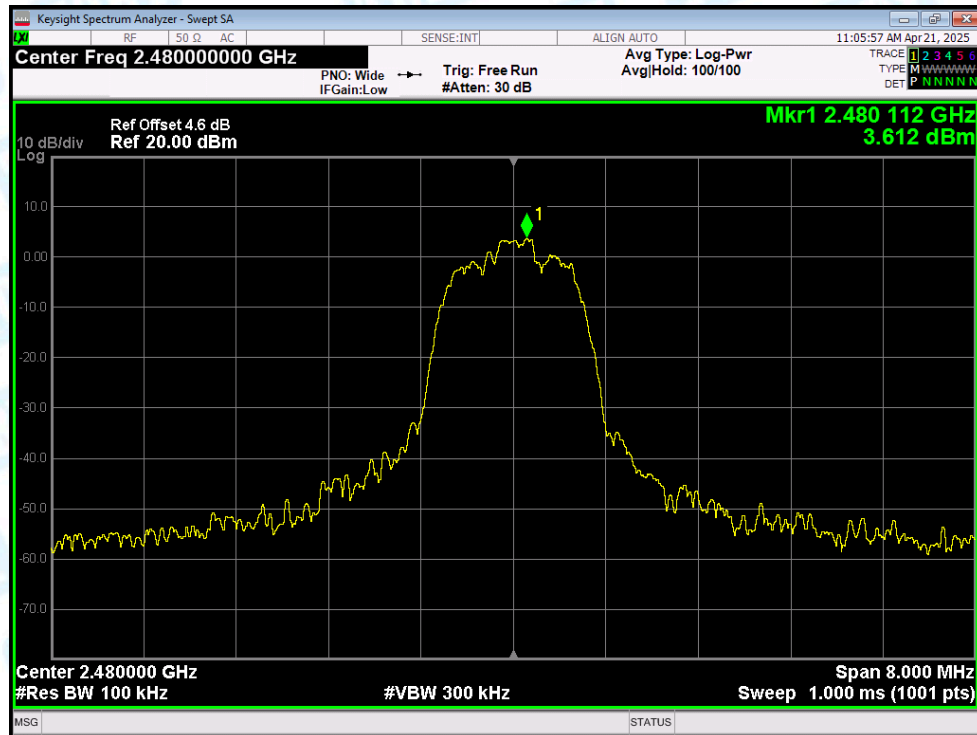
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



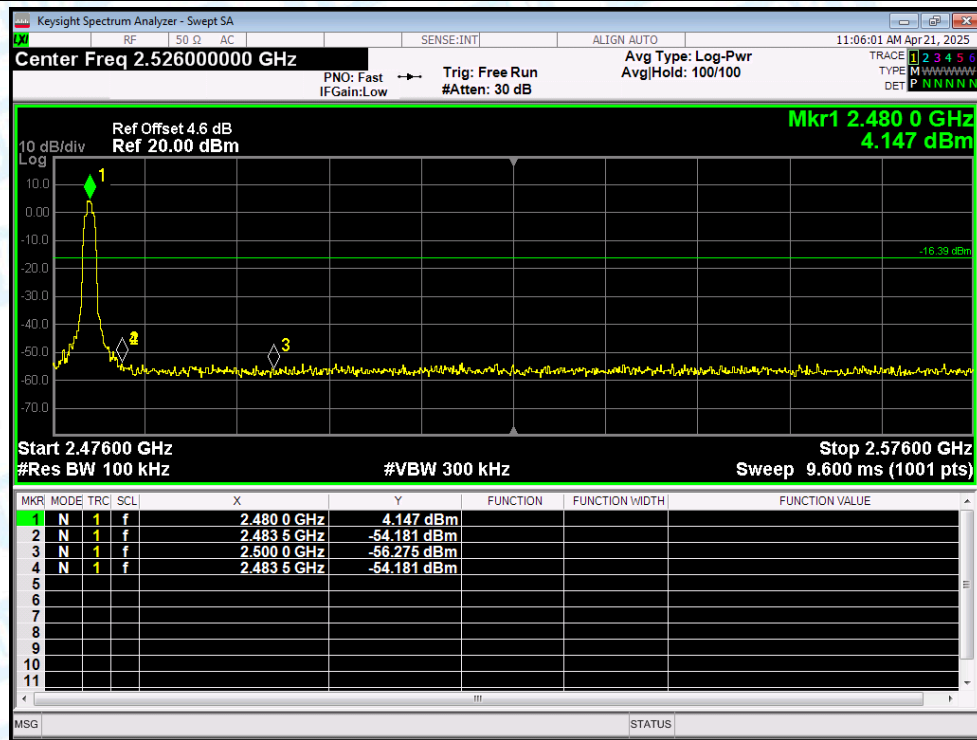
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

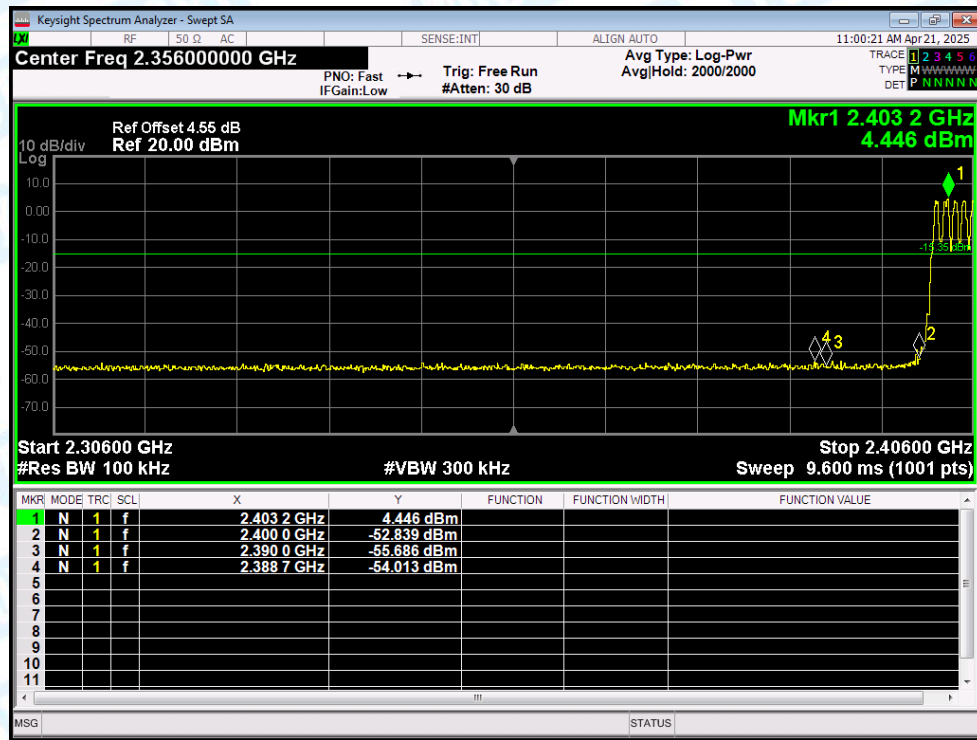
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-58.67	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-57.29	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-57.93	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-57.33	-20	Pass

Test Graphs

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



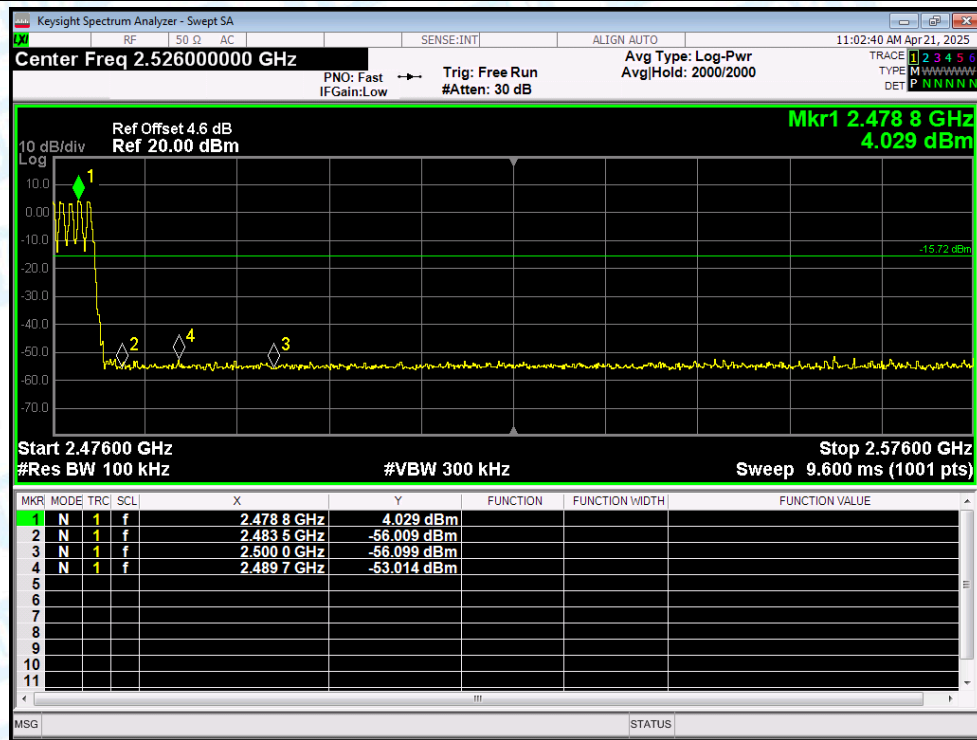
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



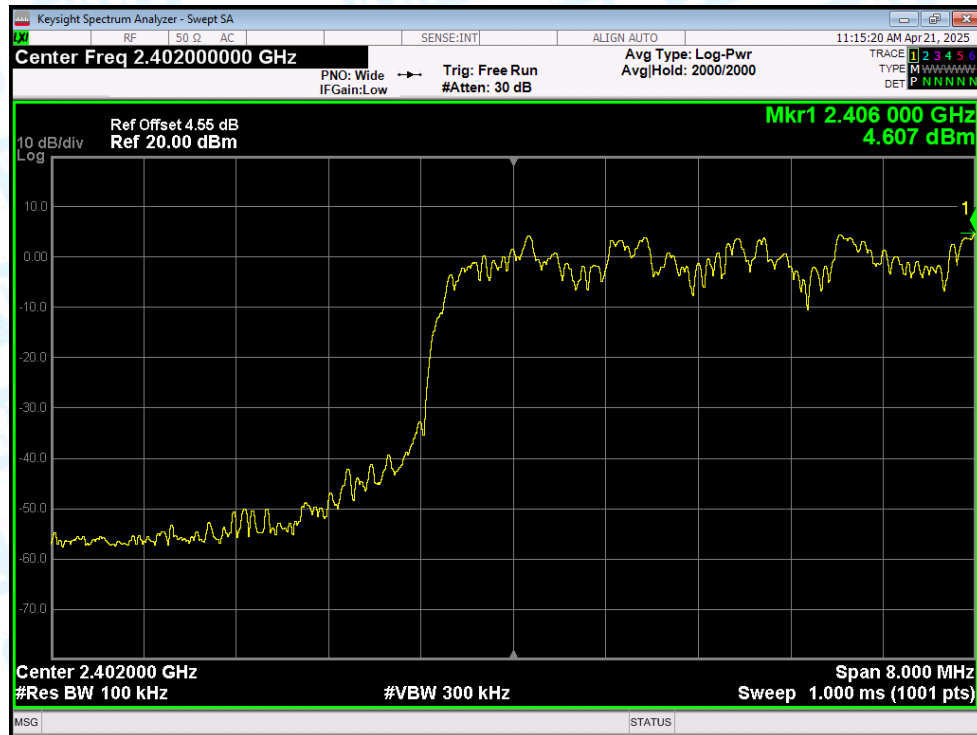
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



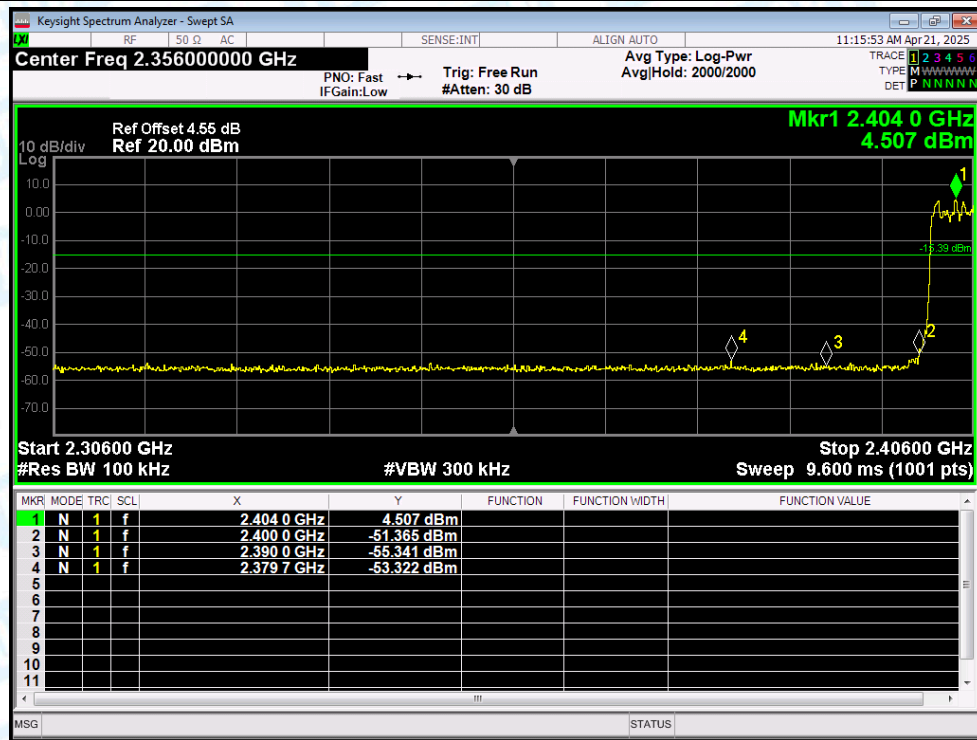
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



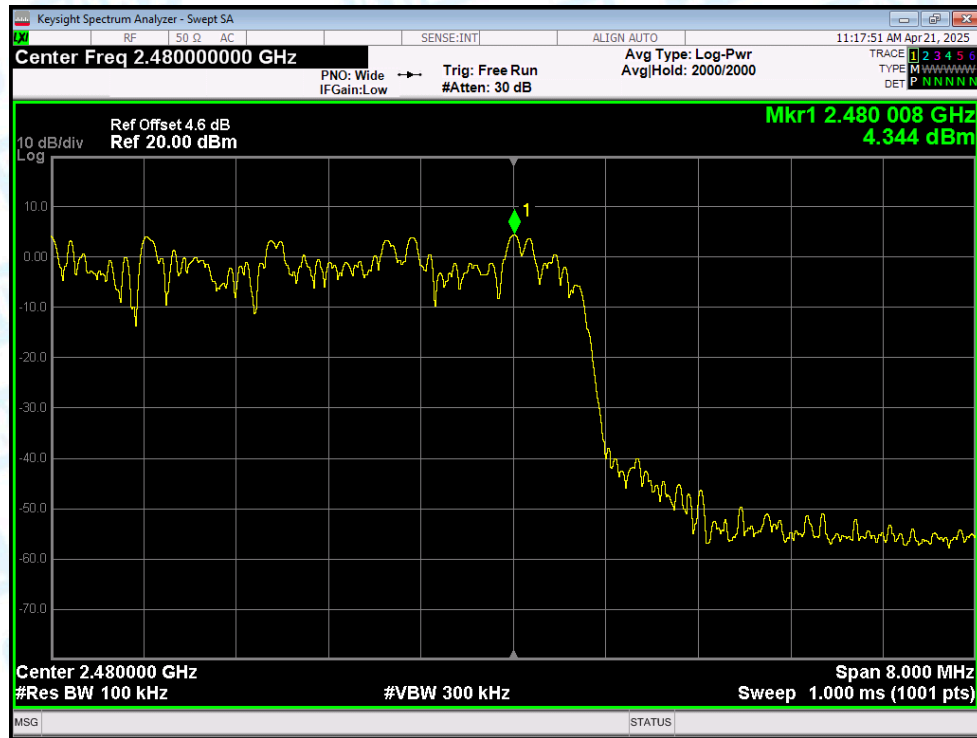
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



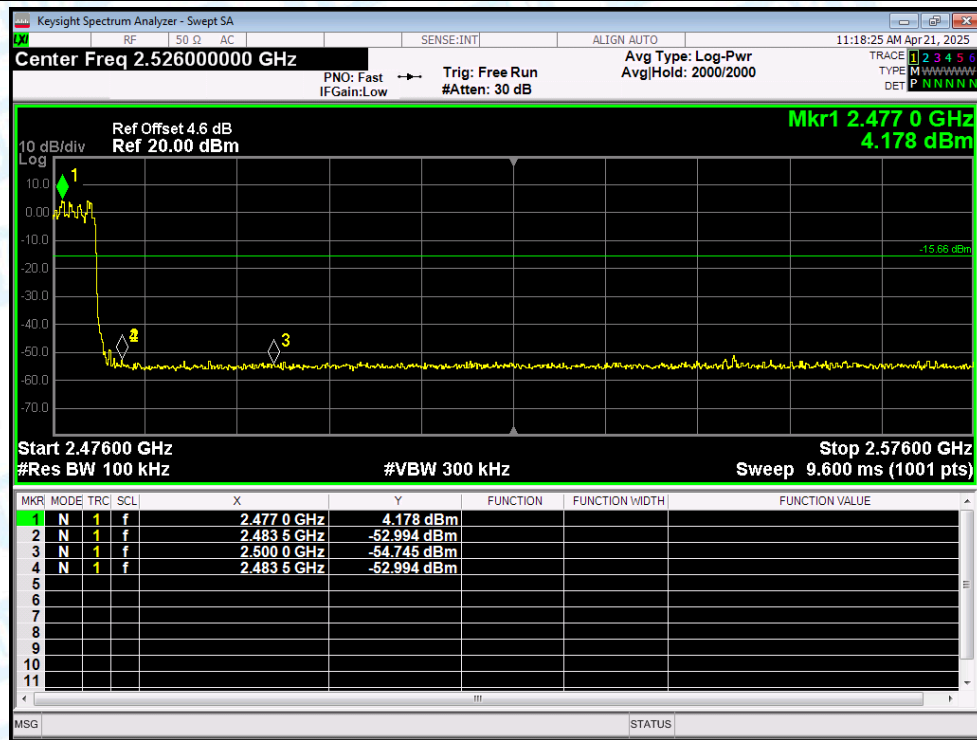
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



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

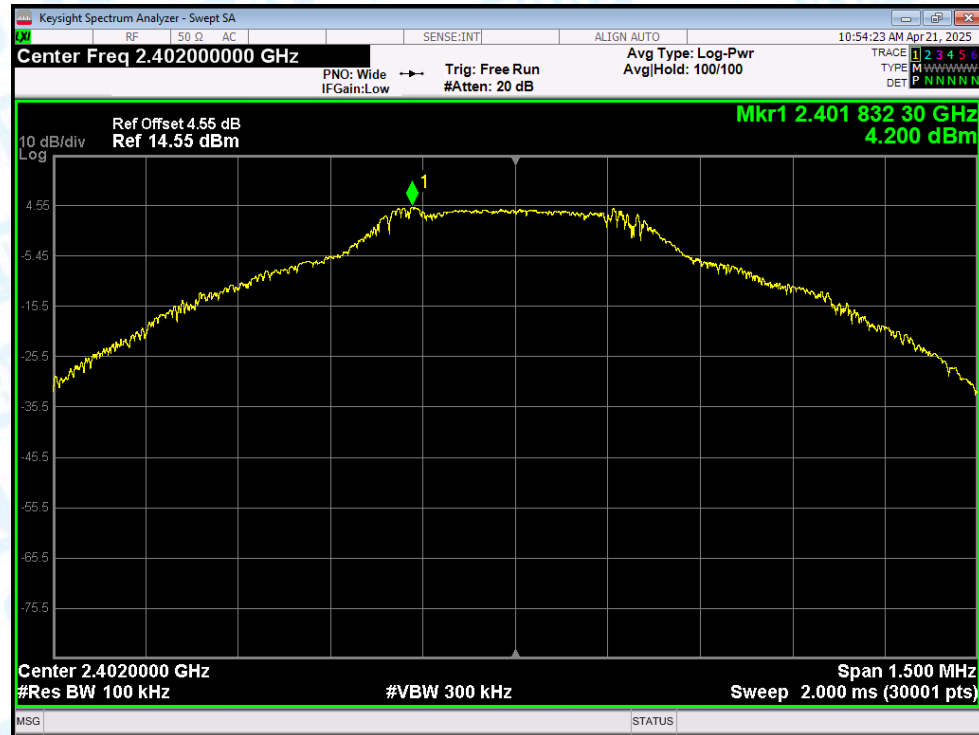


7. Conducted RF Spurious Emission

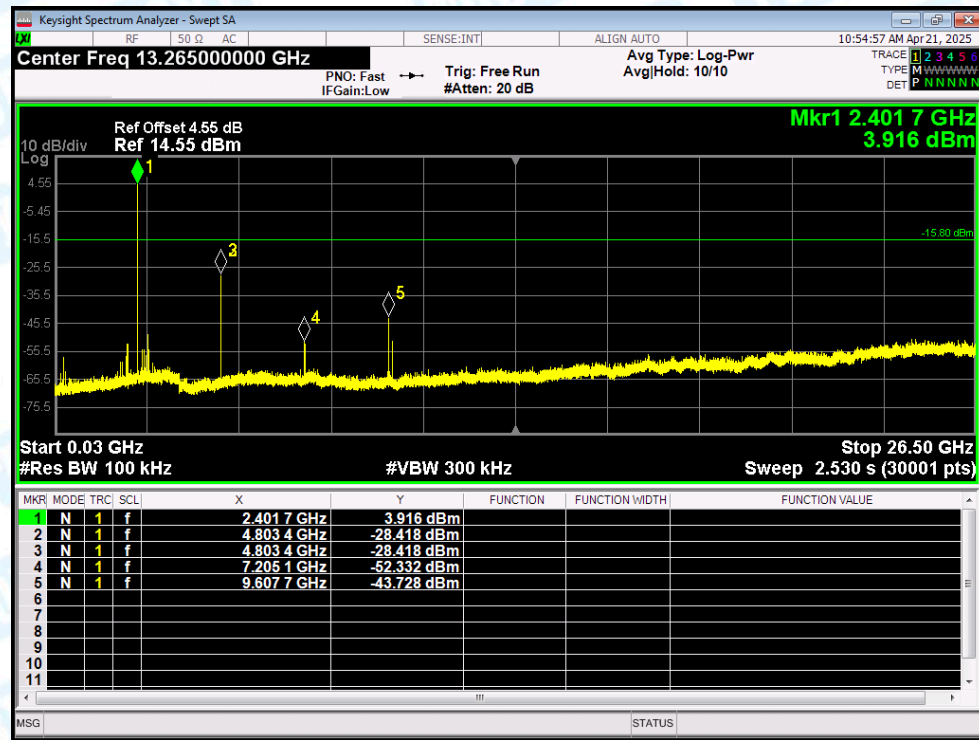
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-32.62	-20	Pass
NVNT	1-DH1	2441	Ant1	-34.38	-20	Pass
NVNT	1-DH1	2480	Ant1	-37.13	-20	Pass
NVNT	2-DH1	2402	Ant1	-31.38	-20	Pass
NVNT	2-DH1	2441	Ant1	-33.74	-20	Pass
NVNT	2-DH1	2480	Ant1	-35.91	-20	Pass

Test Graphs

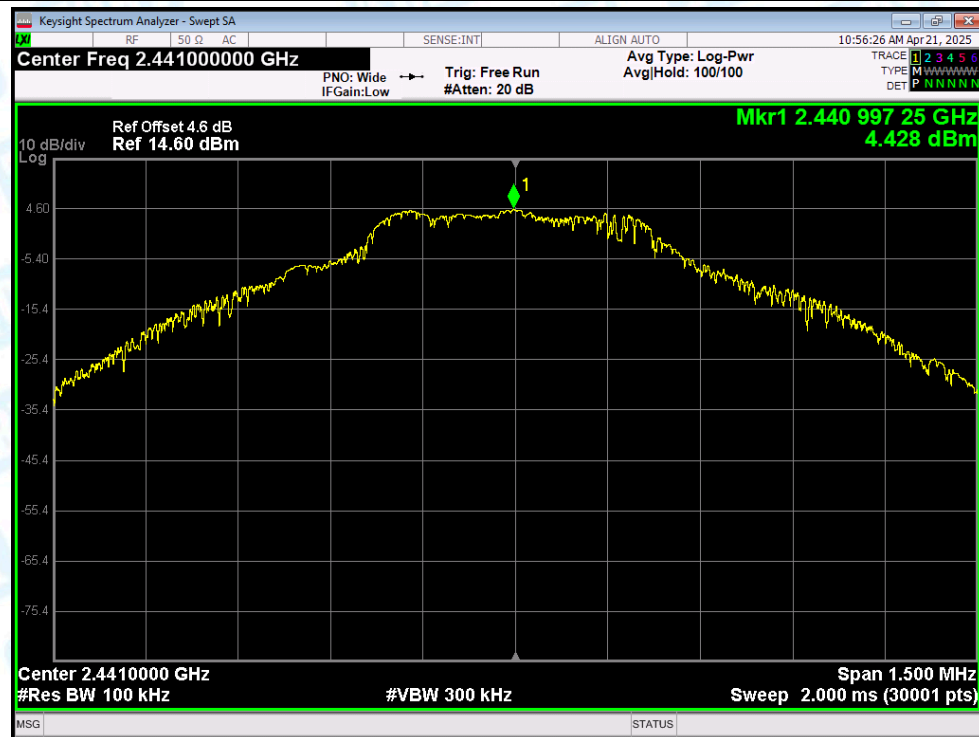
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



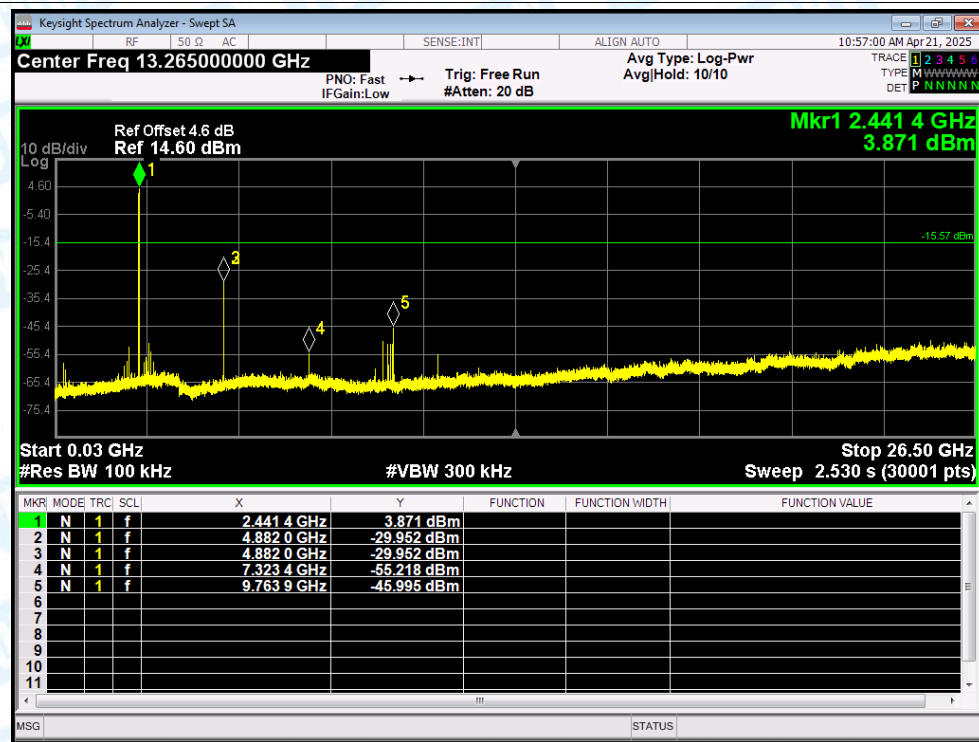
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



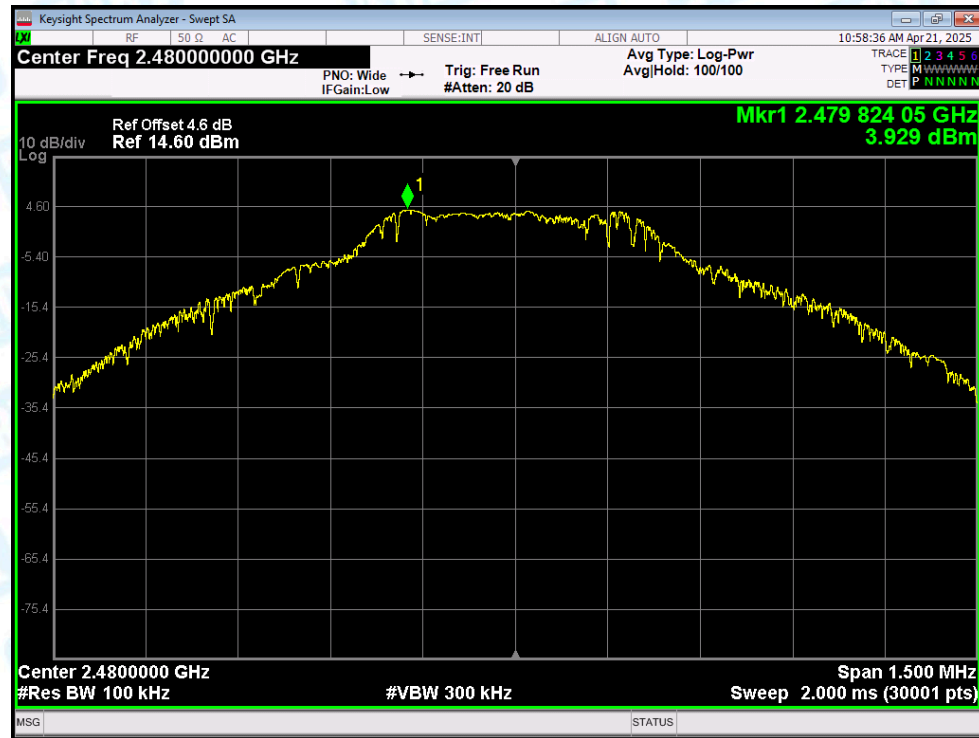
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



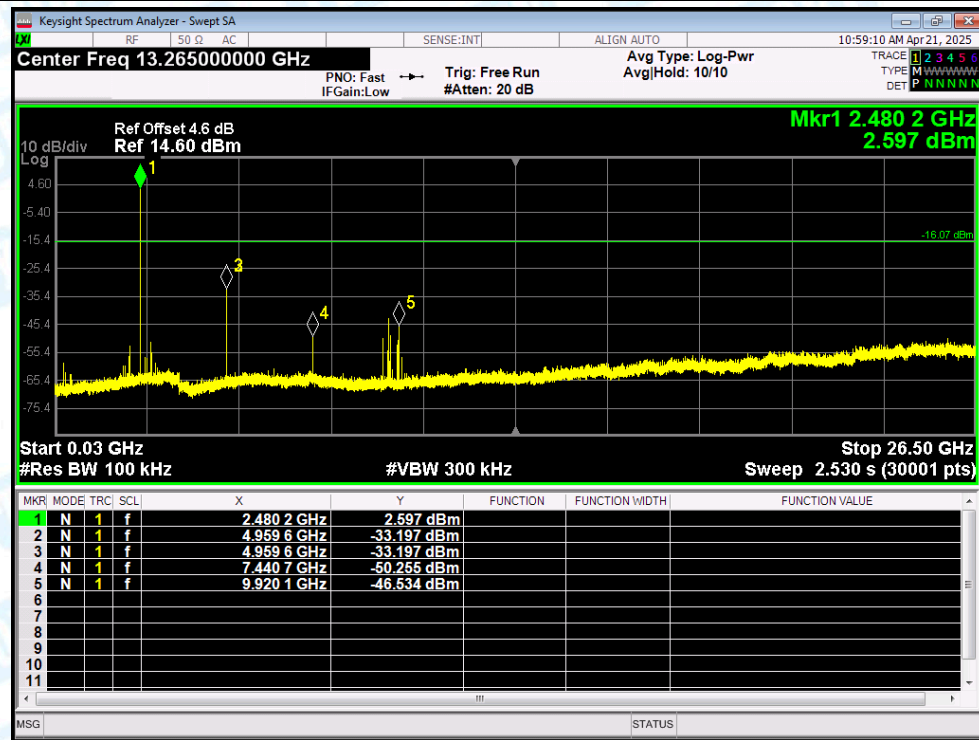
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



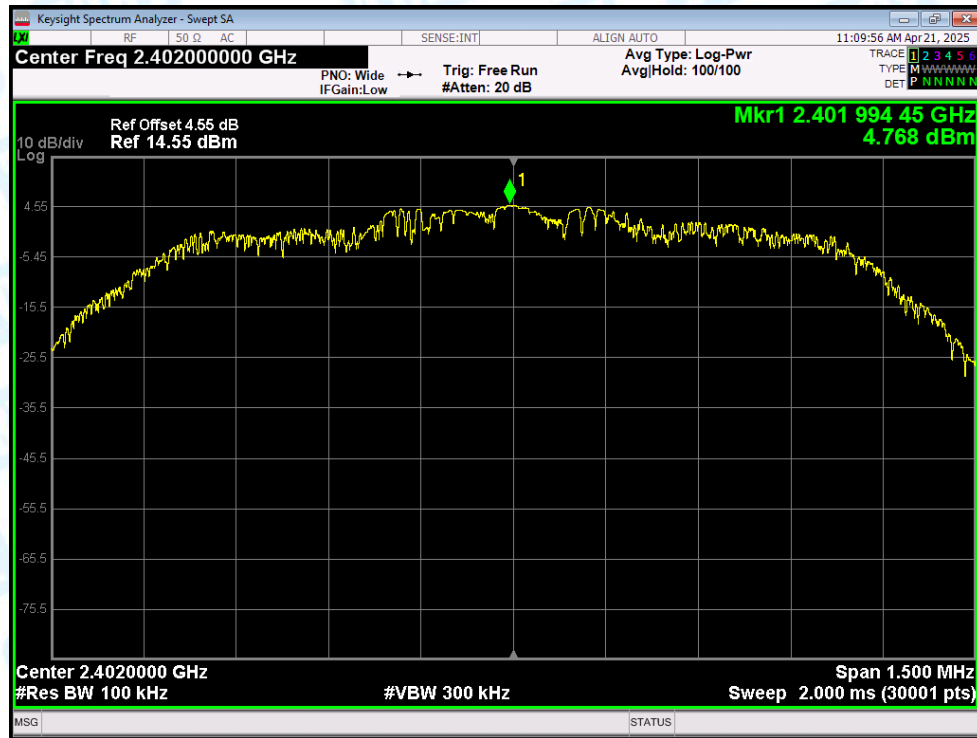
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



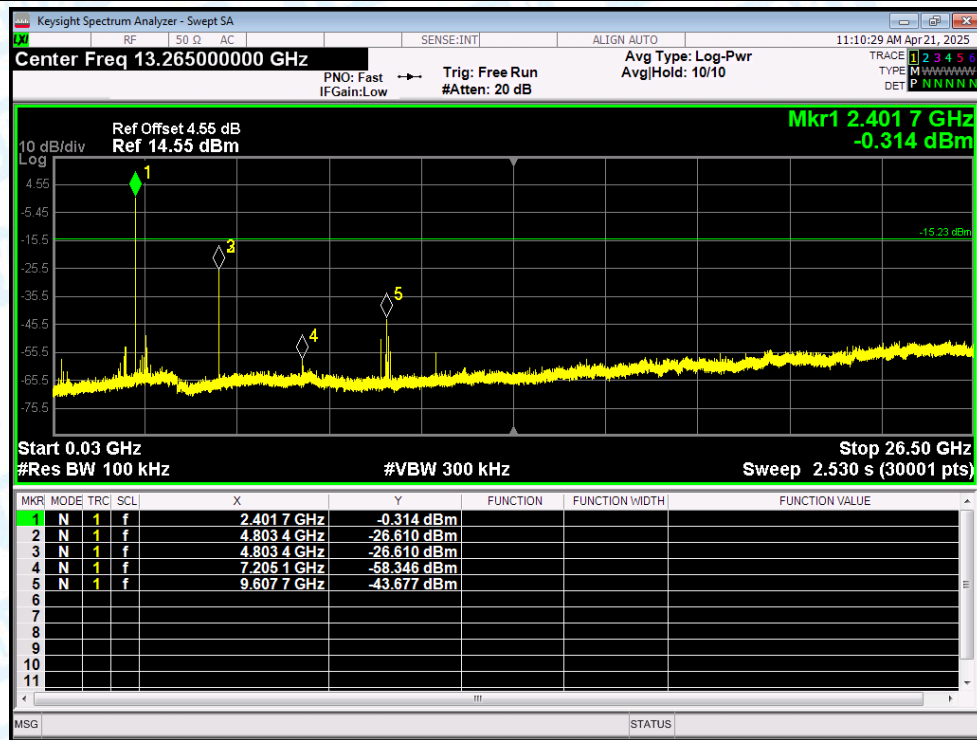
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



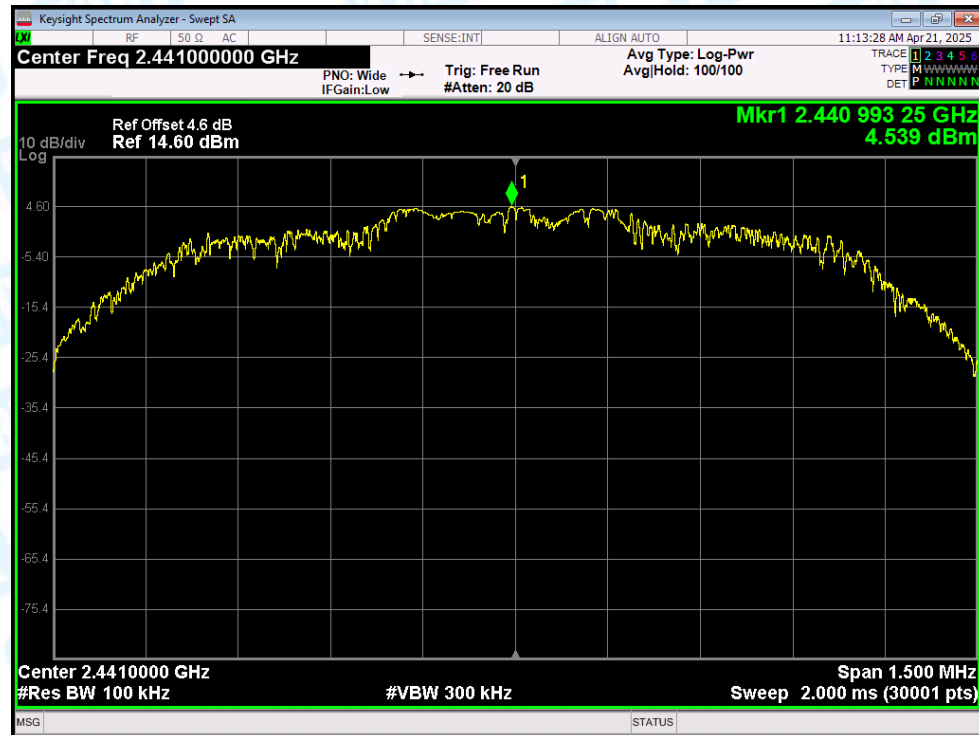
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



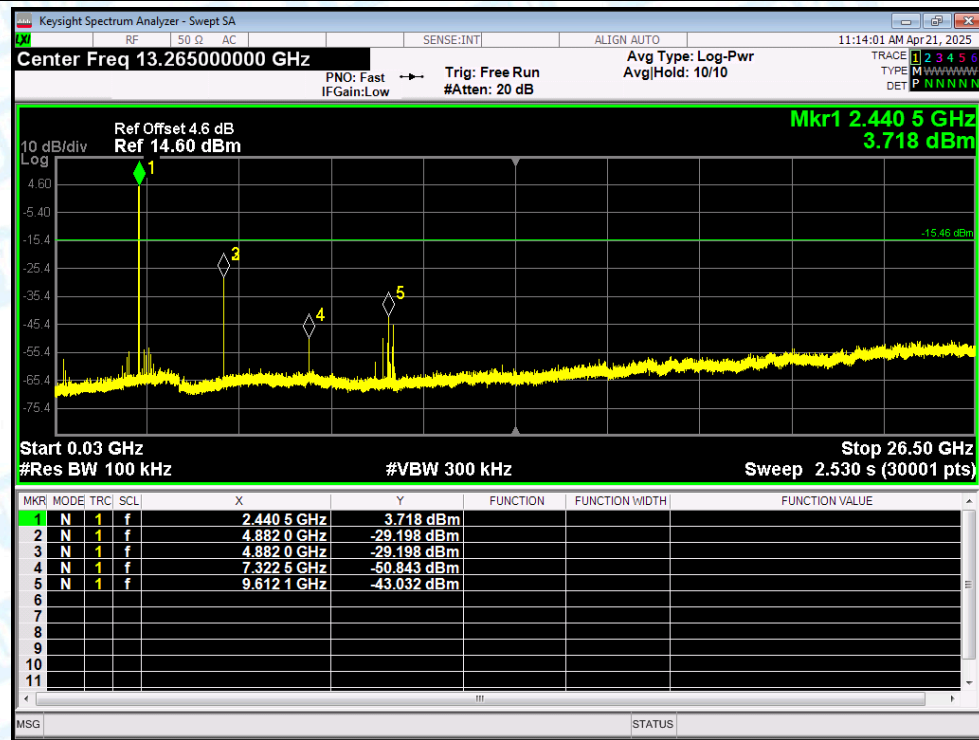
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



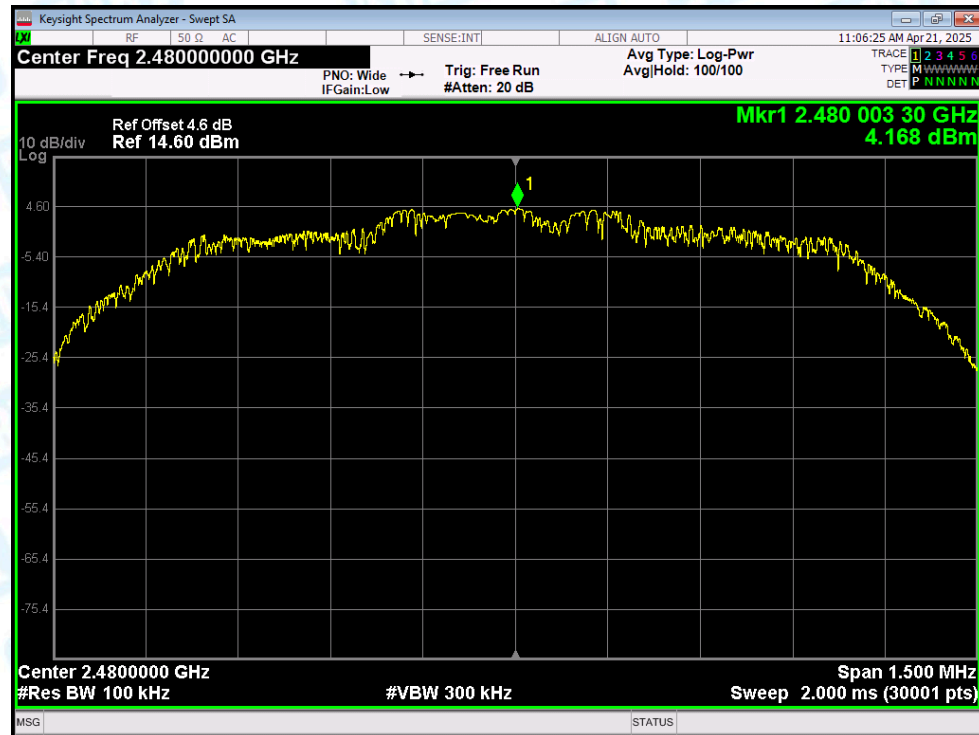
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



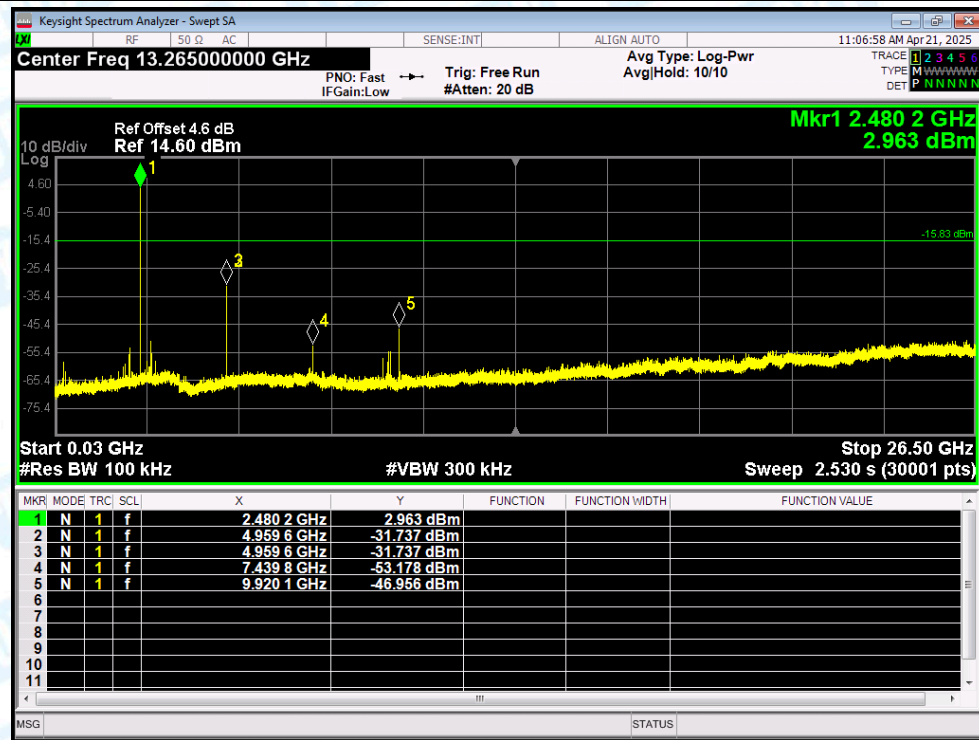
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission

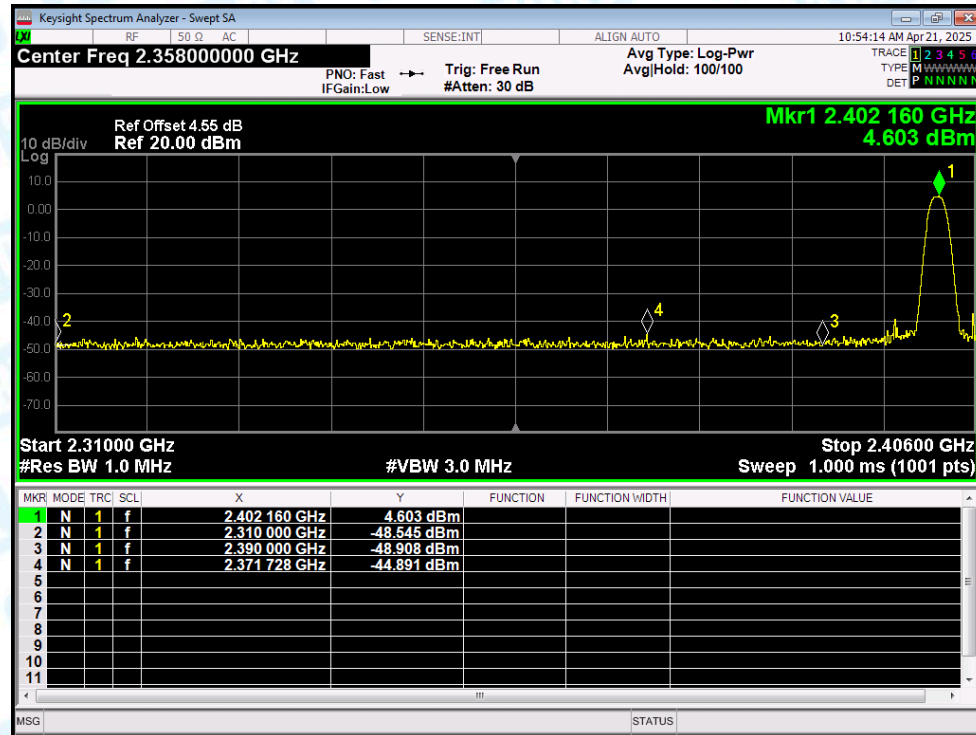


8. Restrict Band

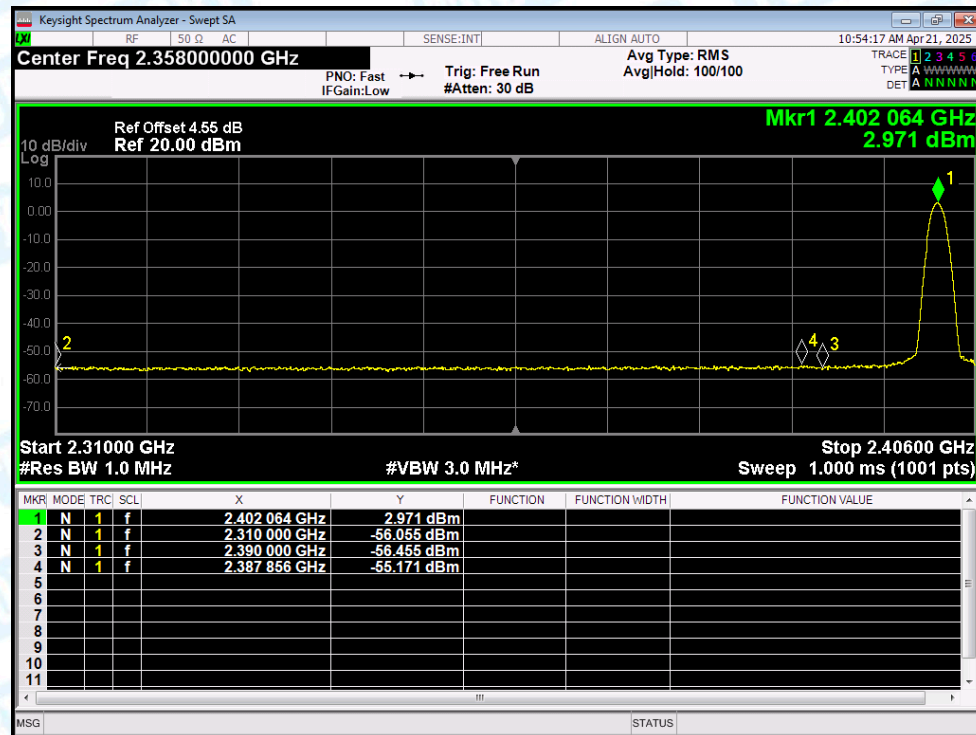
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.55	2	-	48.71	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.06	2	1.1	42.3	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2371.728	-44.89	2	-	52.37	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2387.856	-55.17	2	1.1	43.19	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-48.91	2	-	48.35	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.46	2	1.1	41.9	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.31	2	-	50.95	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.13	2	4.95	47.08	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.704	-36.22	2	-	61.04	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.656	-54.33	2	4.95	47.88	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.62	2	-	49.64	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.21	2	4.95	47	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-49.03	2	-	48.23	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.03	2	4.74	45.97	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2341.776	-44.45	2	-	52.81	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2381.52	-55.1	2	4.74	46.9	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.03	2	-	50.23	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.95	2	4.74	46.05	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-38.13	2	-	59.13	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.48	2	4.84	47.62	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.824	-36.07	2	-	61.19	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.448	-54	2	4.84	48.1	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-48.24	2	-	49.02	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.42	2	4.84	46.68	Average	54	Pass

Test Graphs

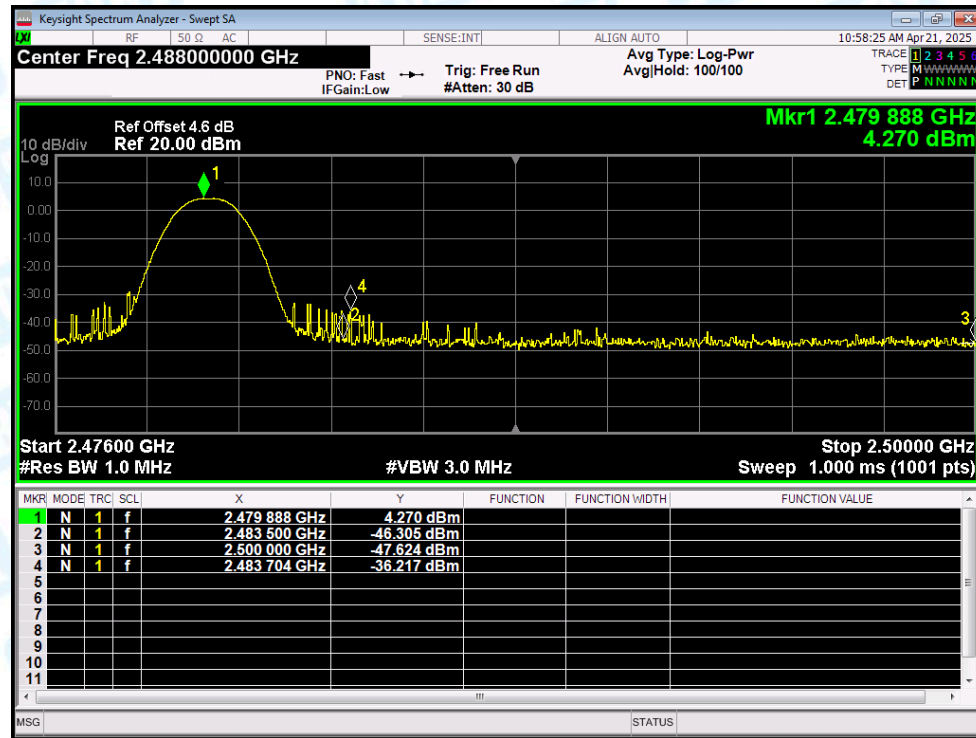
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



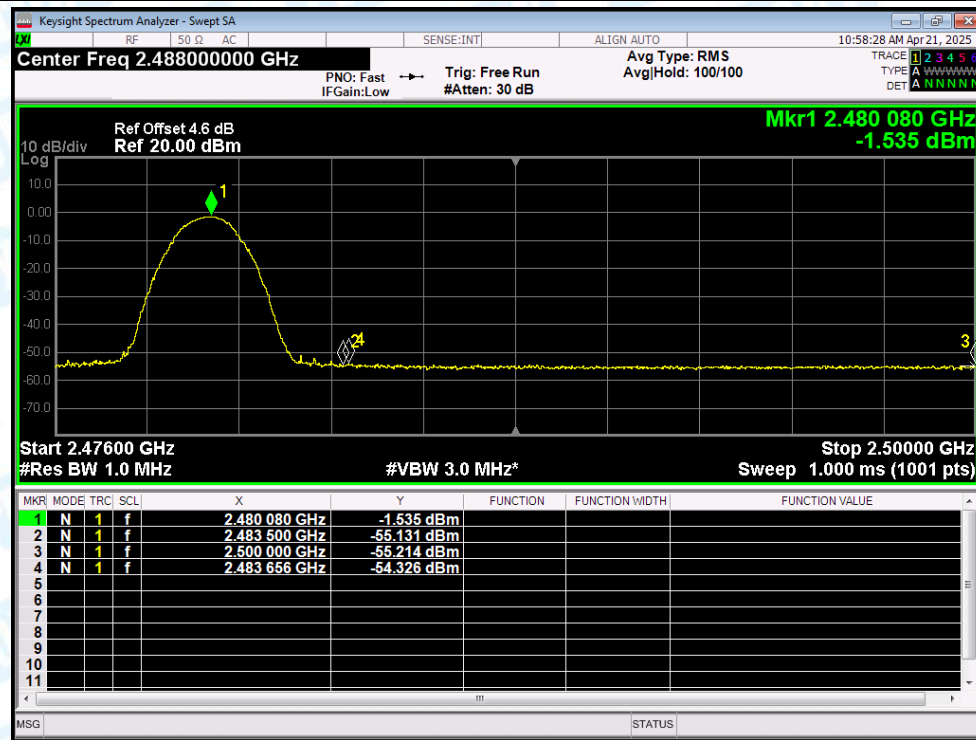
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



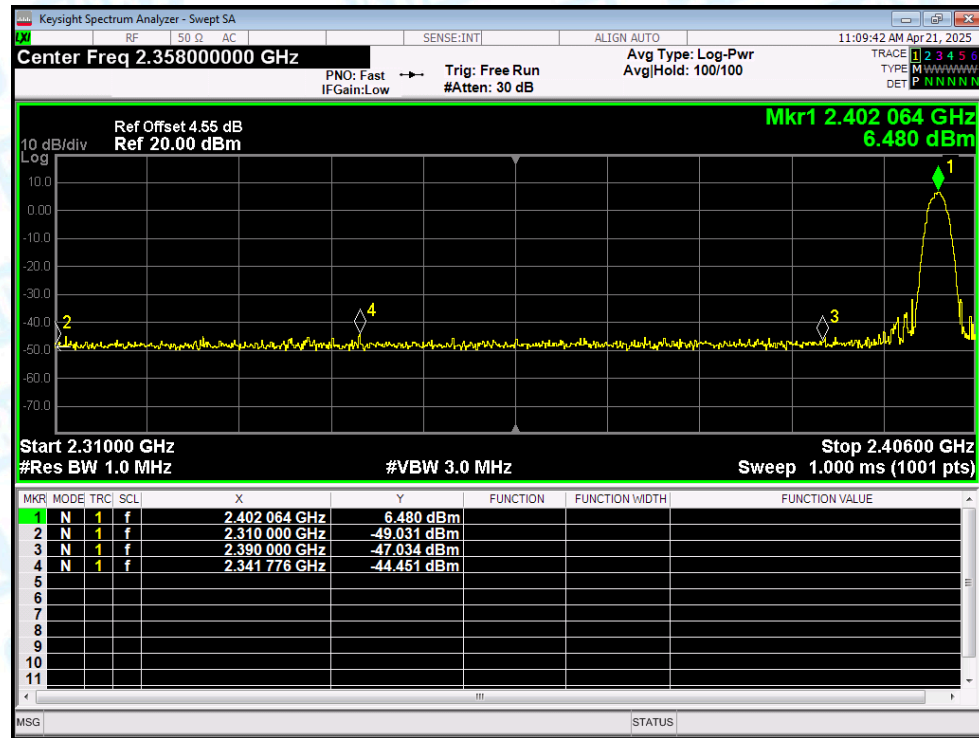
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



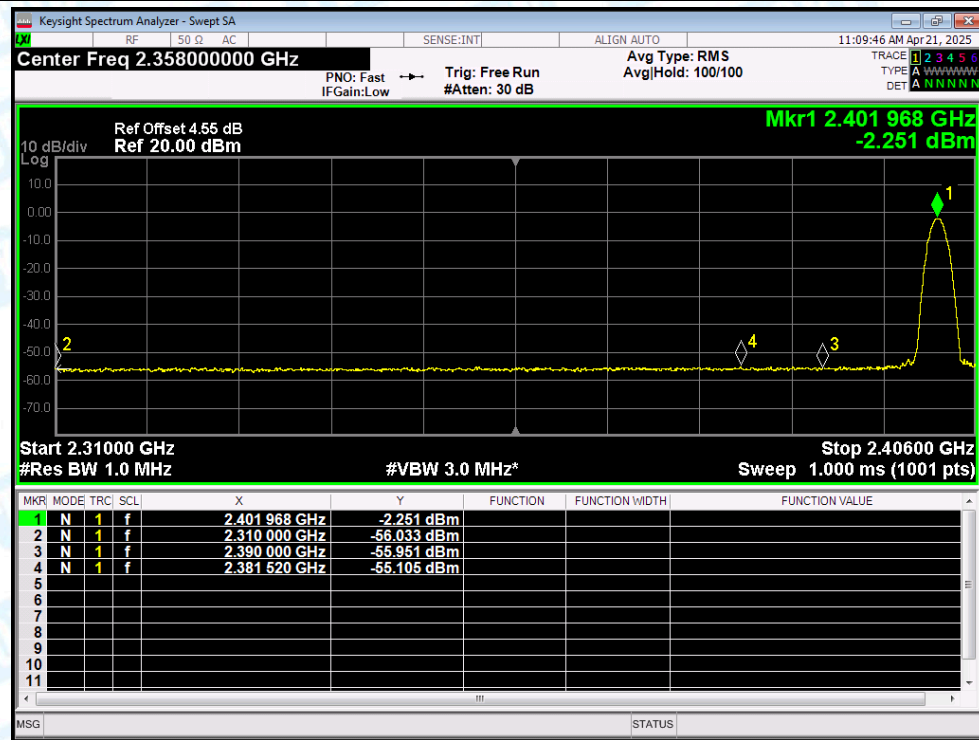
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



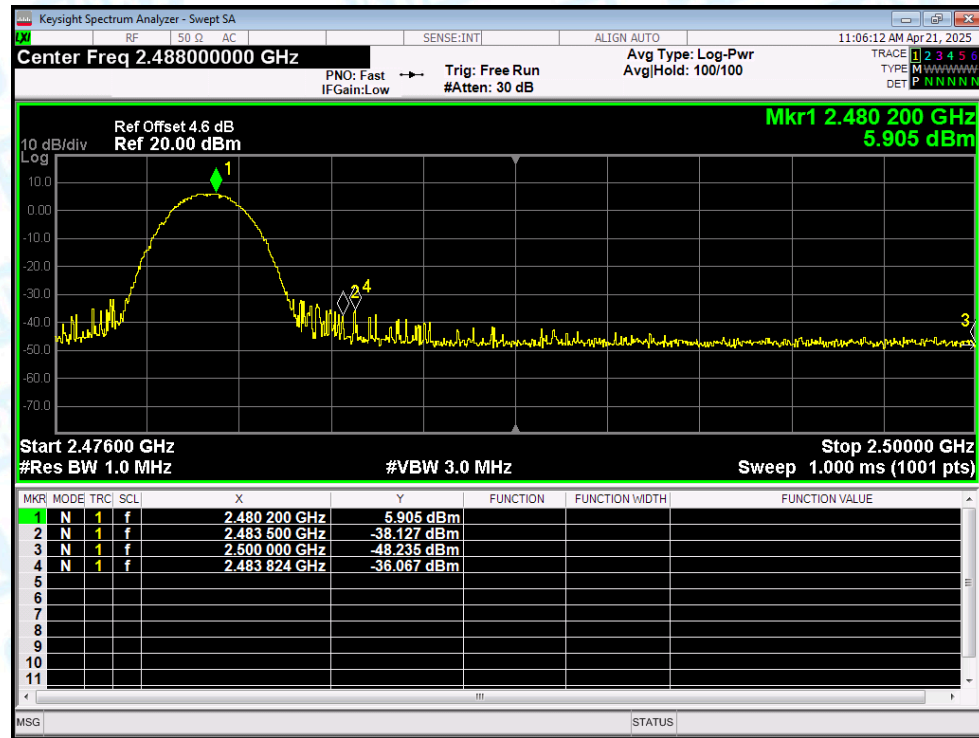
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



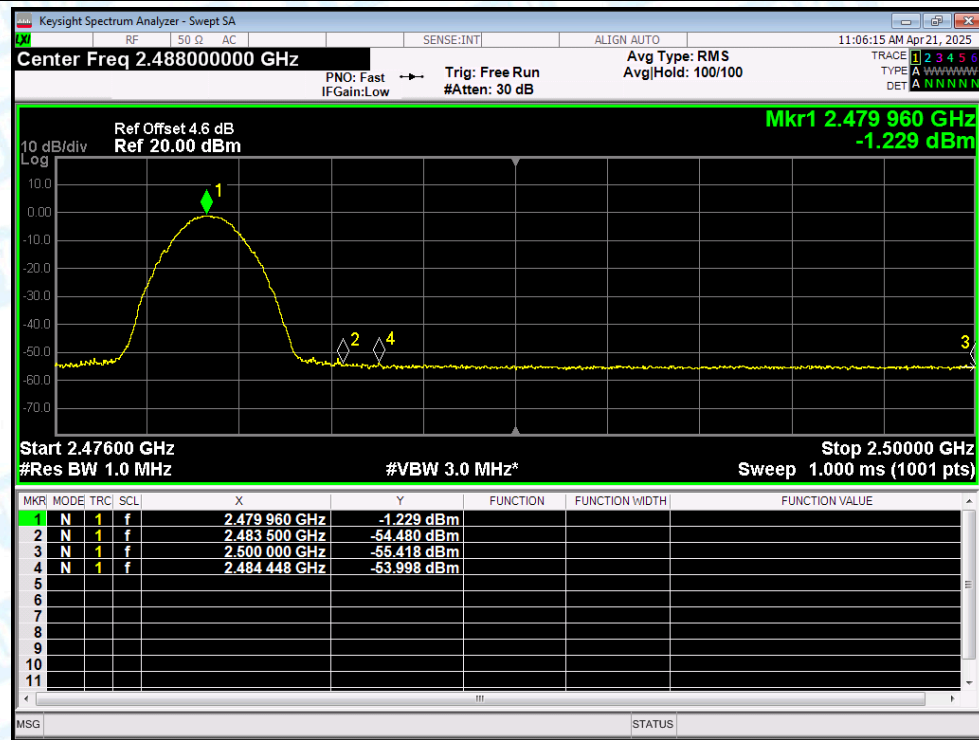
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



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



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

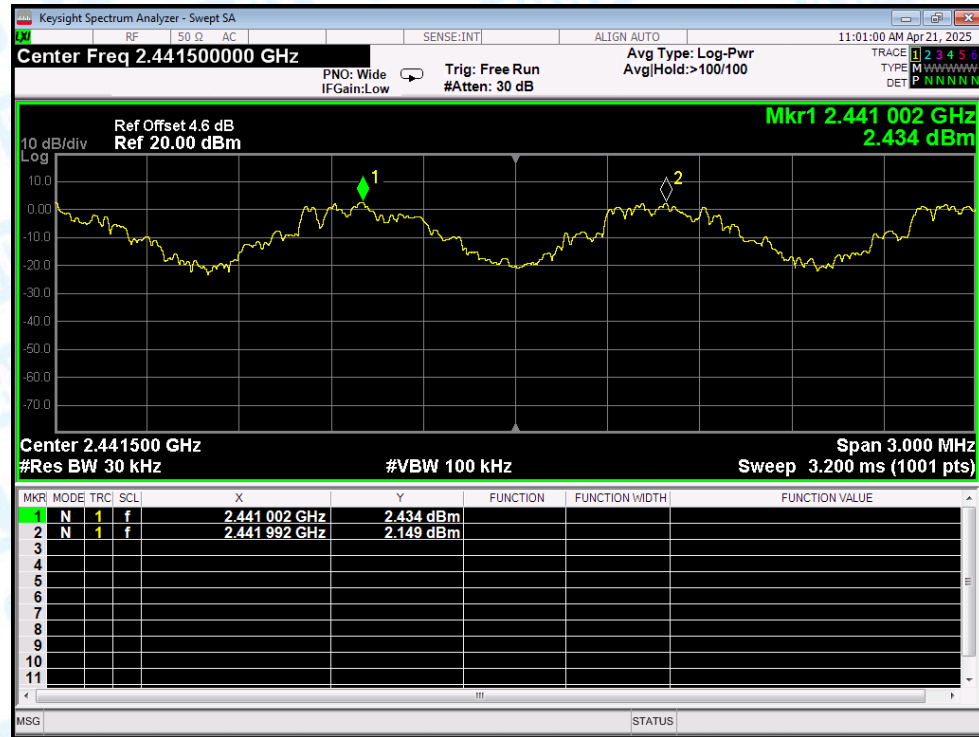


9. Carrier Frequencies Separation

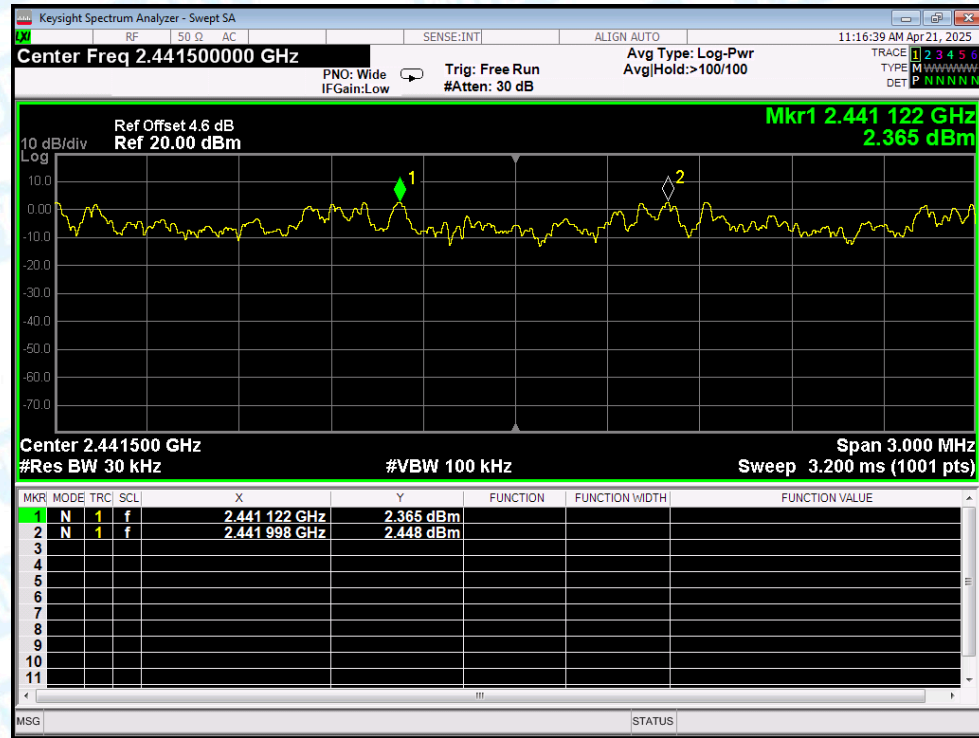
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.002	2441.992	0.99	0.573	Pass
NVNT	2-DH1	Ant1	2441.122	2441.998	0.876	0.847	Pass

Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1

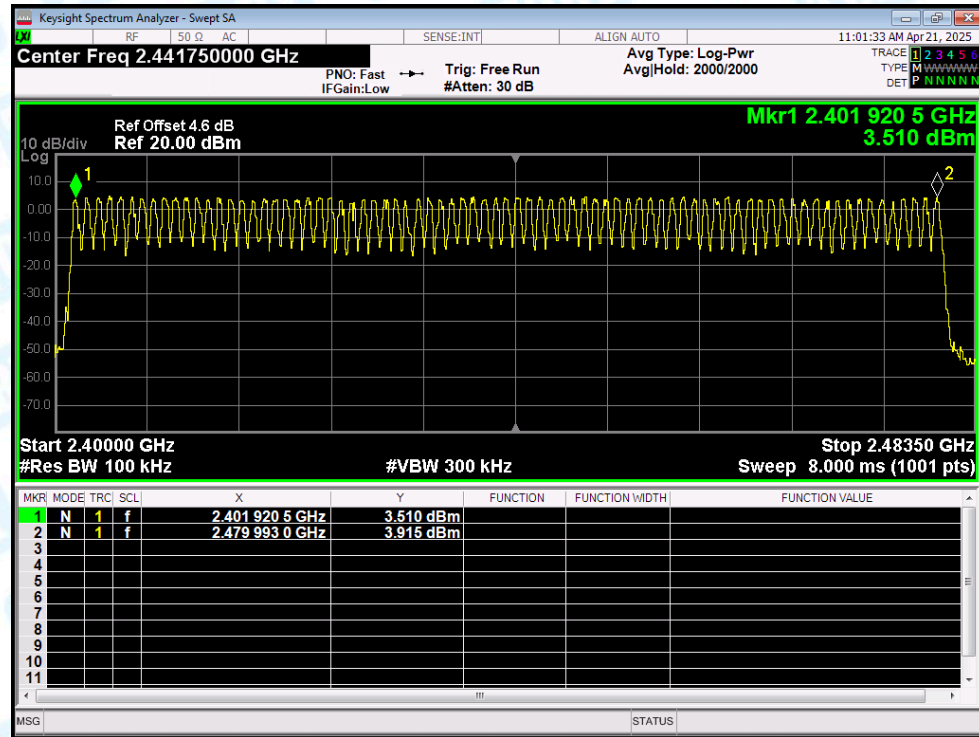


10. Number of Hopping Channel

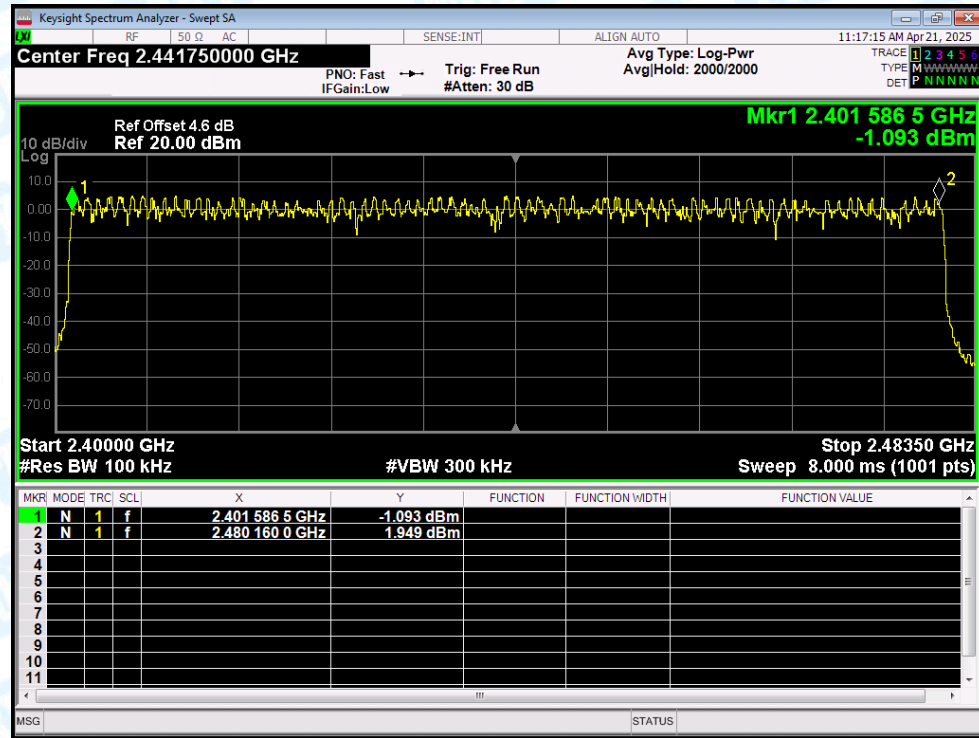
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1

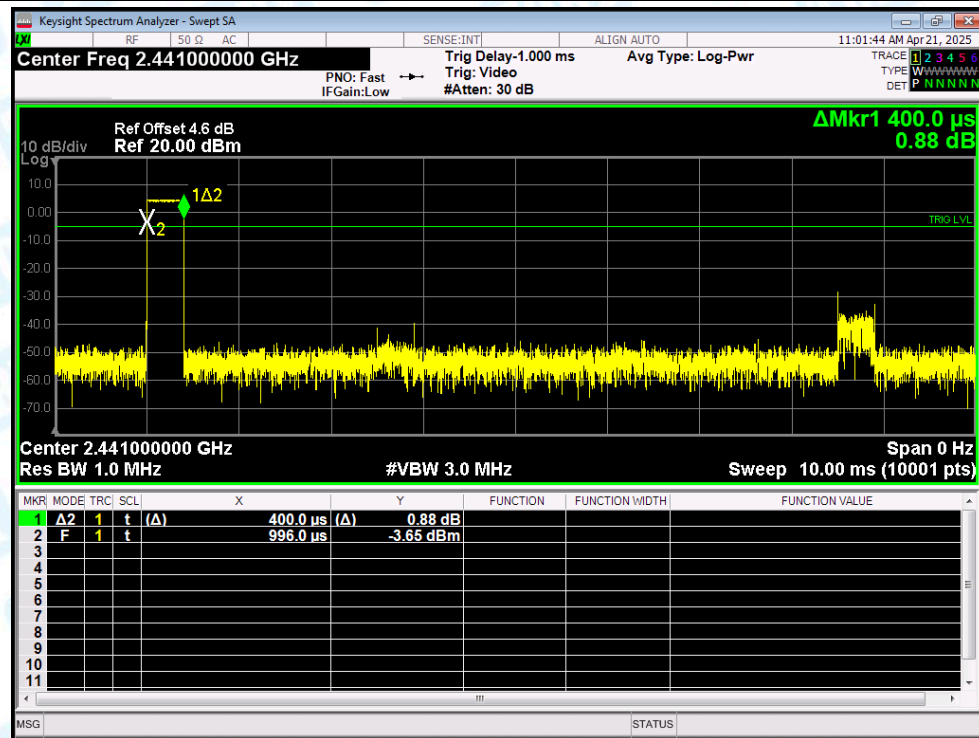


11. Dwell Time

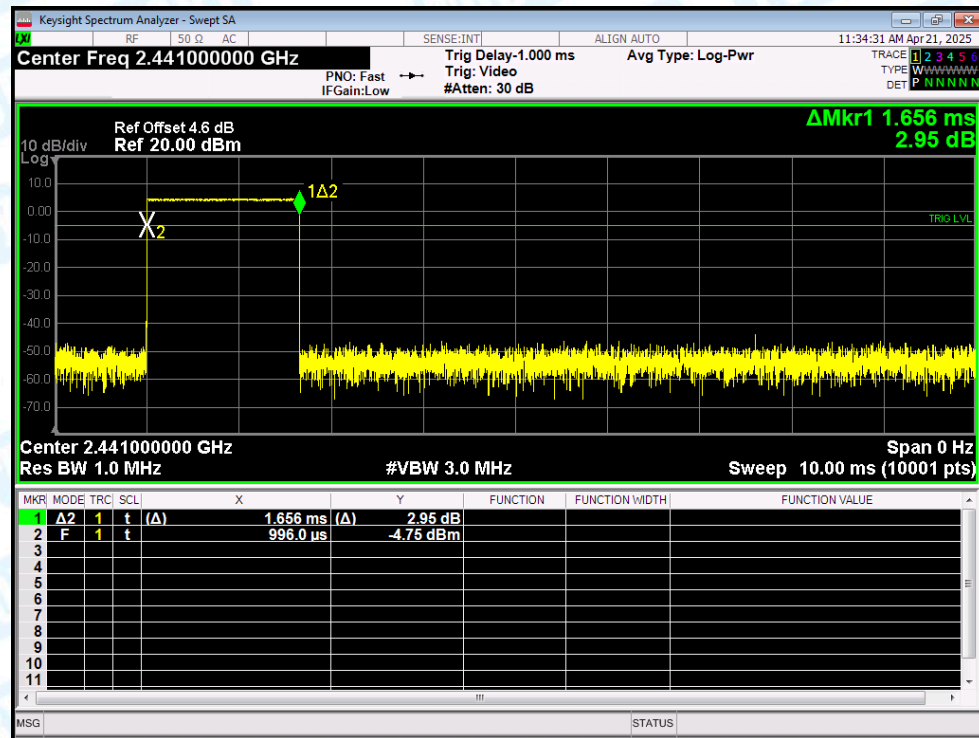
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.4	128	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.656	264.96	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.905	309.867	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.409	130.88	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.662	265.92	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.91	310.4	31600	400	Pass

Test Graphs

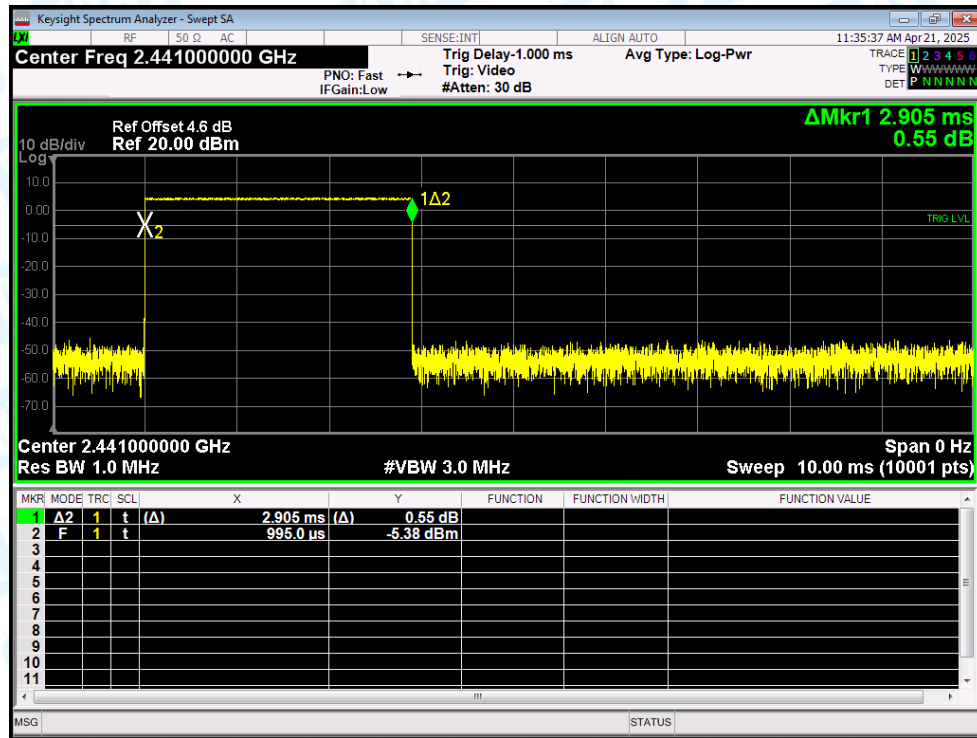
Dwell NVNT 1-DH1 2441MHz Ant1



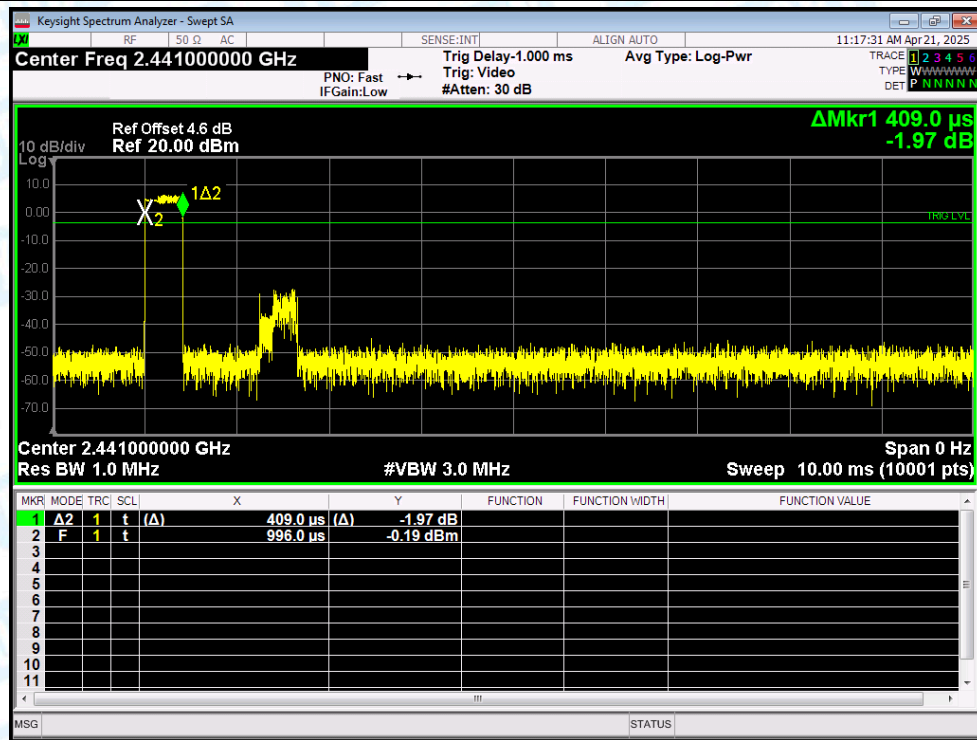
Dwell NVNT 1-DH3 2441MHz Ant1



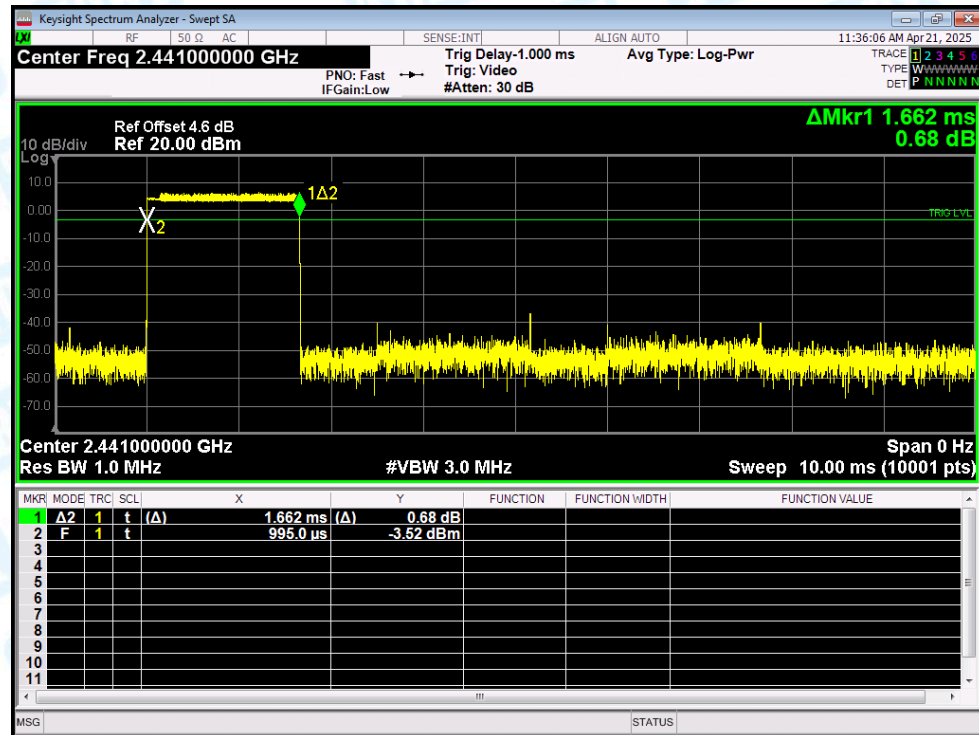
Dwell NVNT 1-DH5 2441MHz Ant1



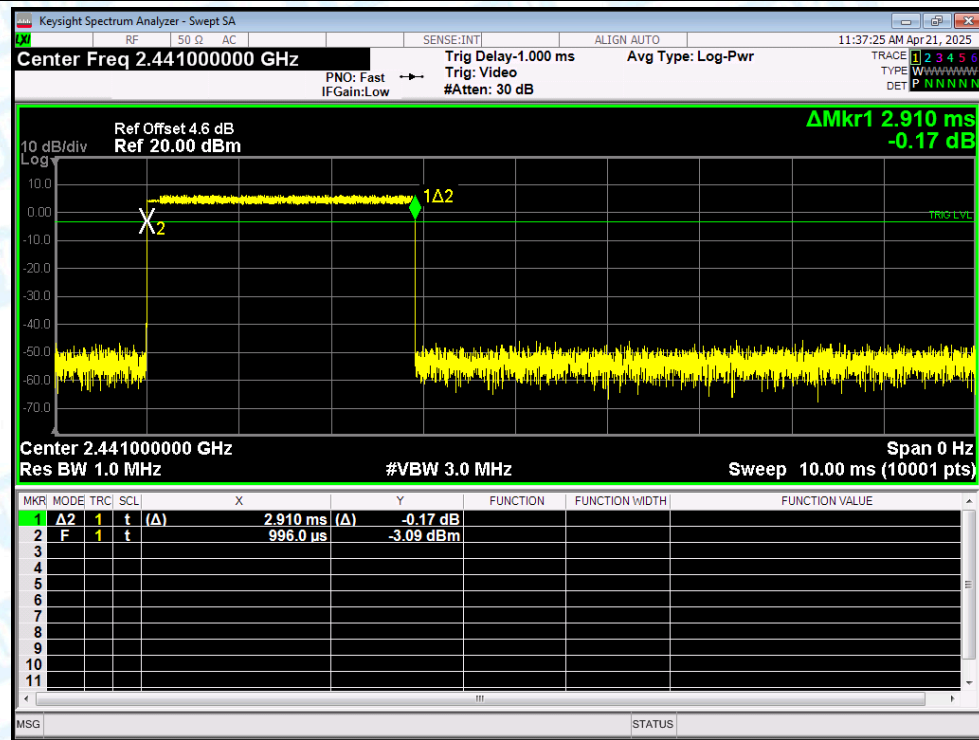
Dwell NVNT 2-DH1 2441MHz Ant1



Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



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