

RF Test Data for Bluetooth(BR+EDR) (Conducted Measurements)

General Description of EUT	
Product Name:	TACGZGJSM
Test Model:	TACSKY-S10
Sample ID:	HC-C-202307-0270-01-02-2#
Environmental Conditions	
Temperature:	24.5℃
Relative Humidity:	49%
Test Voltage:	DC 3V
Test Engineer:	Beryl.zhang
Note: For a more detailed features description, please refer to the report TBR-C-202307-0270-31. The report only show the worst case data.	

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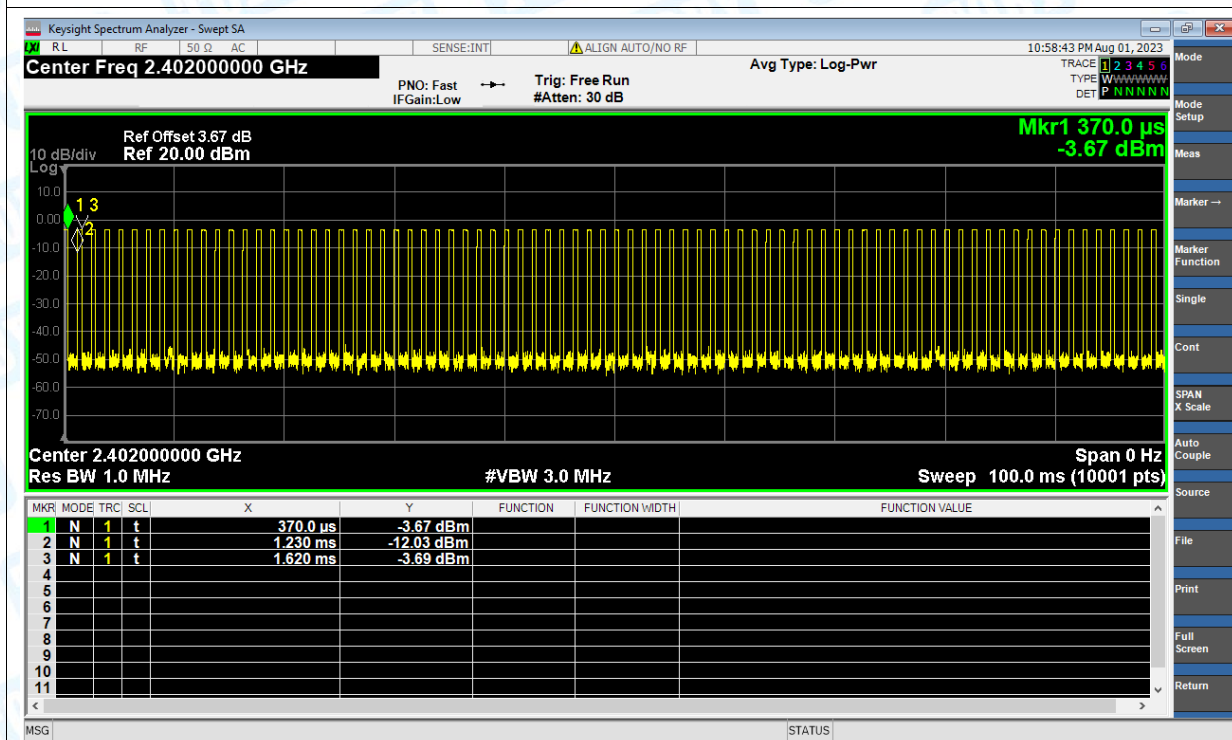
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1. Duty Cycle

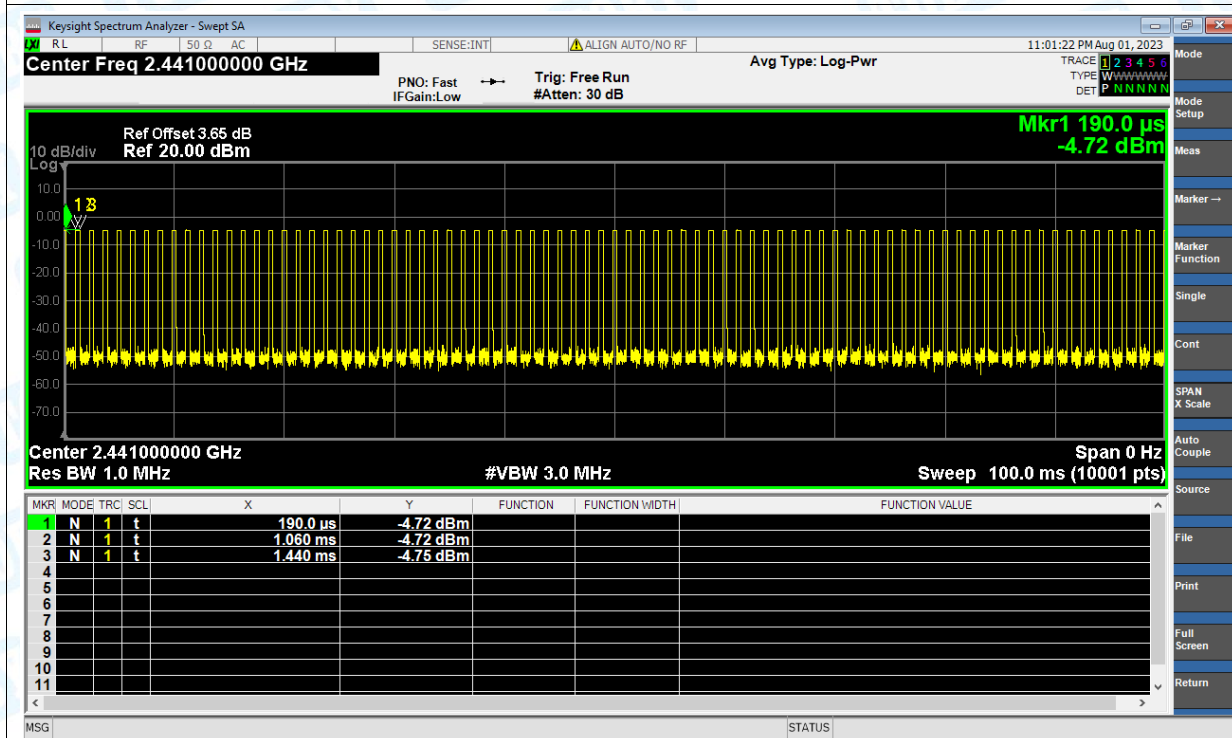
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

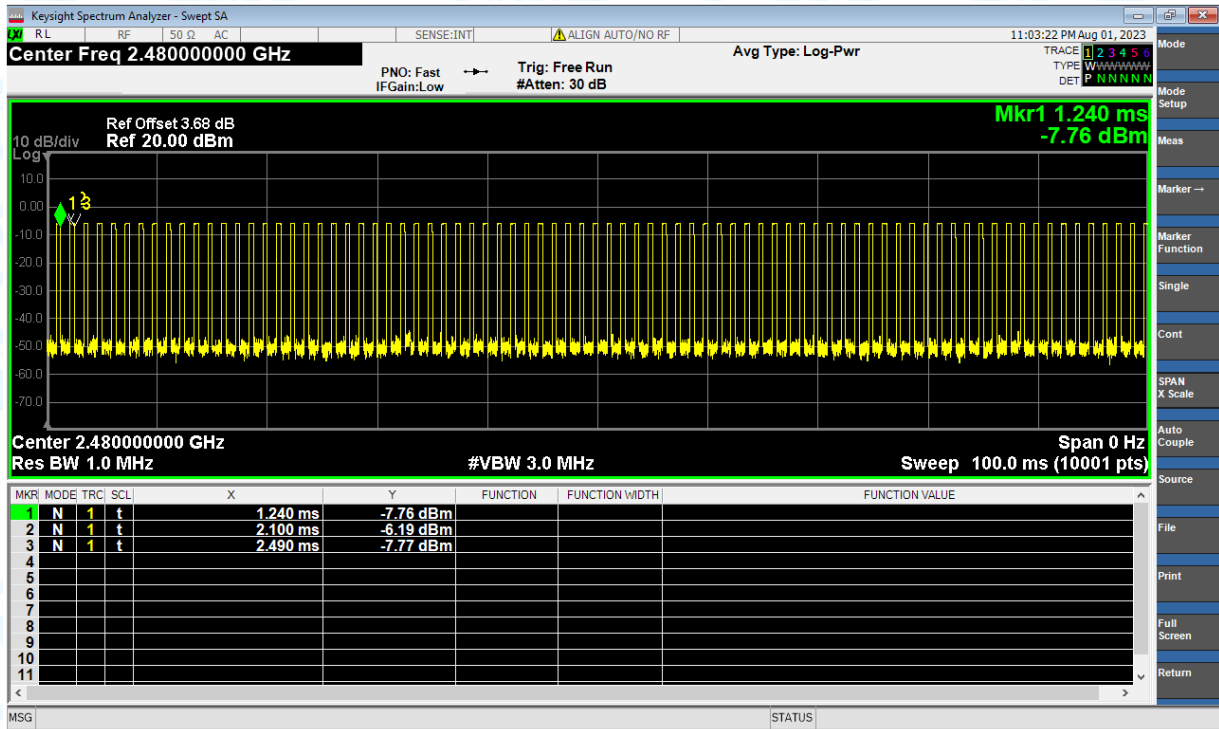
Duty Cycle NVNT 1-DH1 2402MHz Ant1



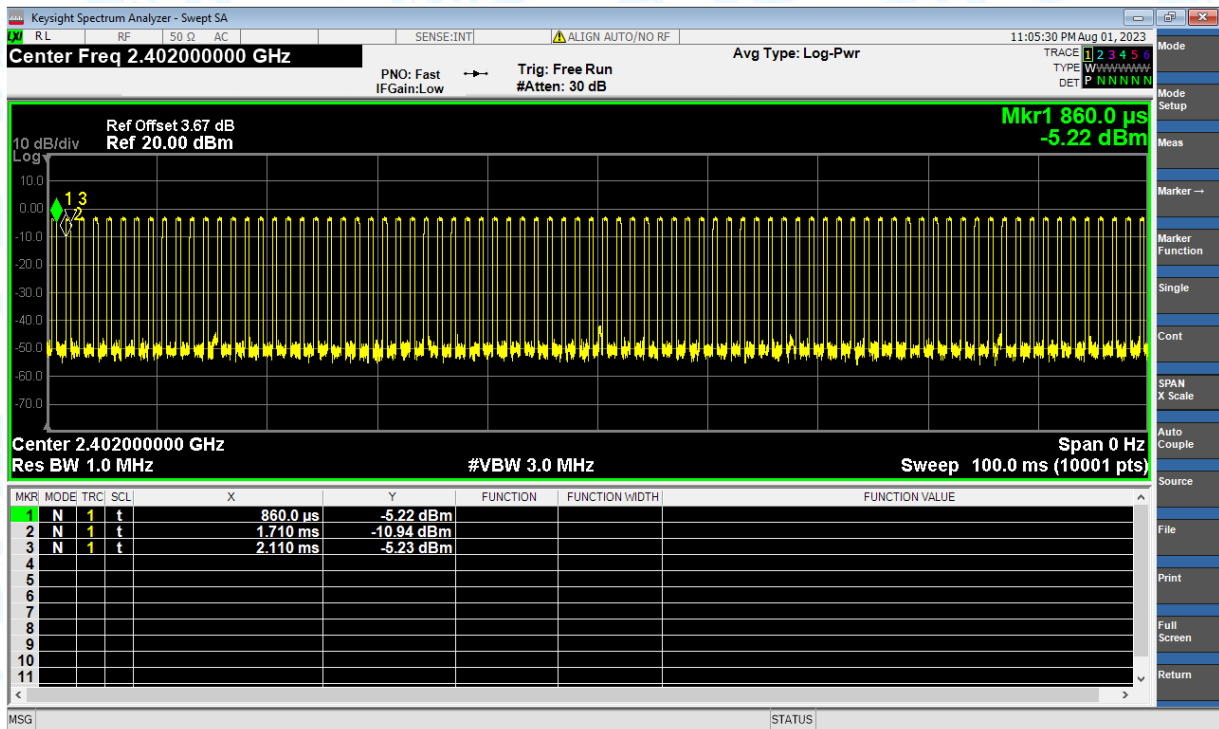
Duty Cycle NVNT 1-DH1 2441MHz Ant1



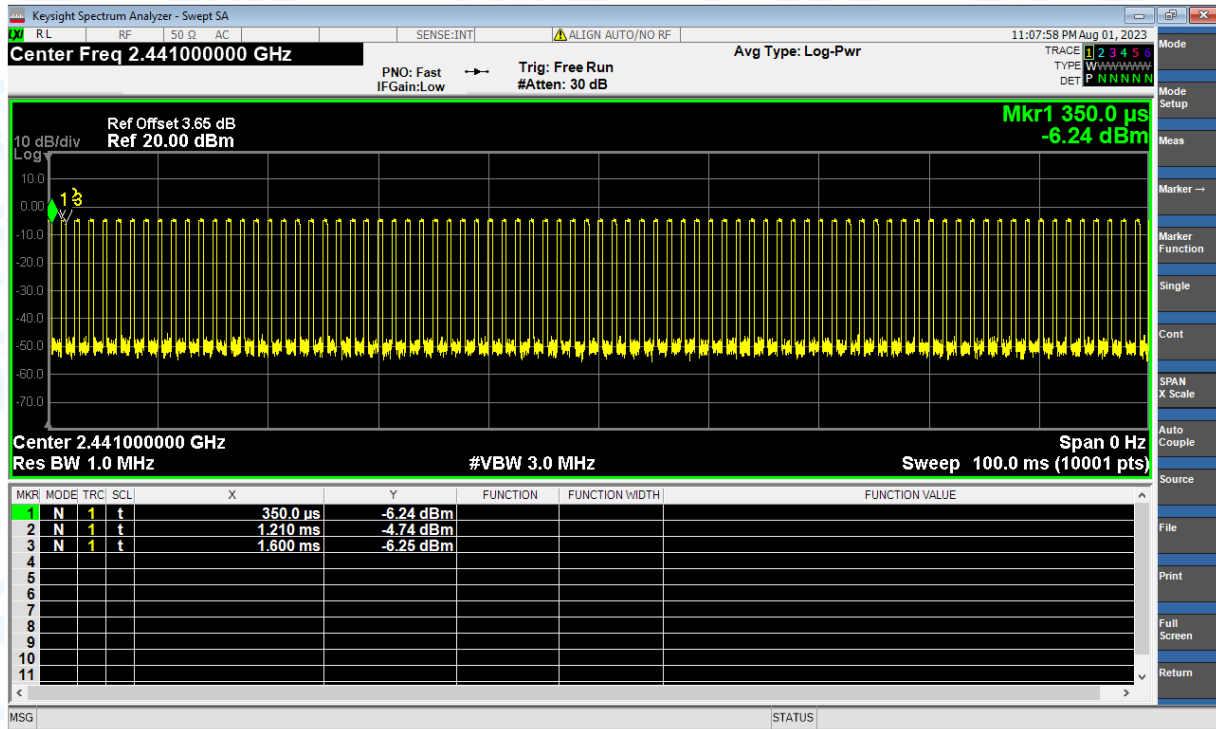
Duty Cycle NVNT 1-DH1 2480MHz Ant1



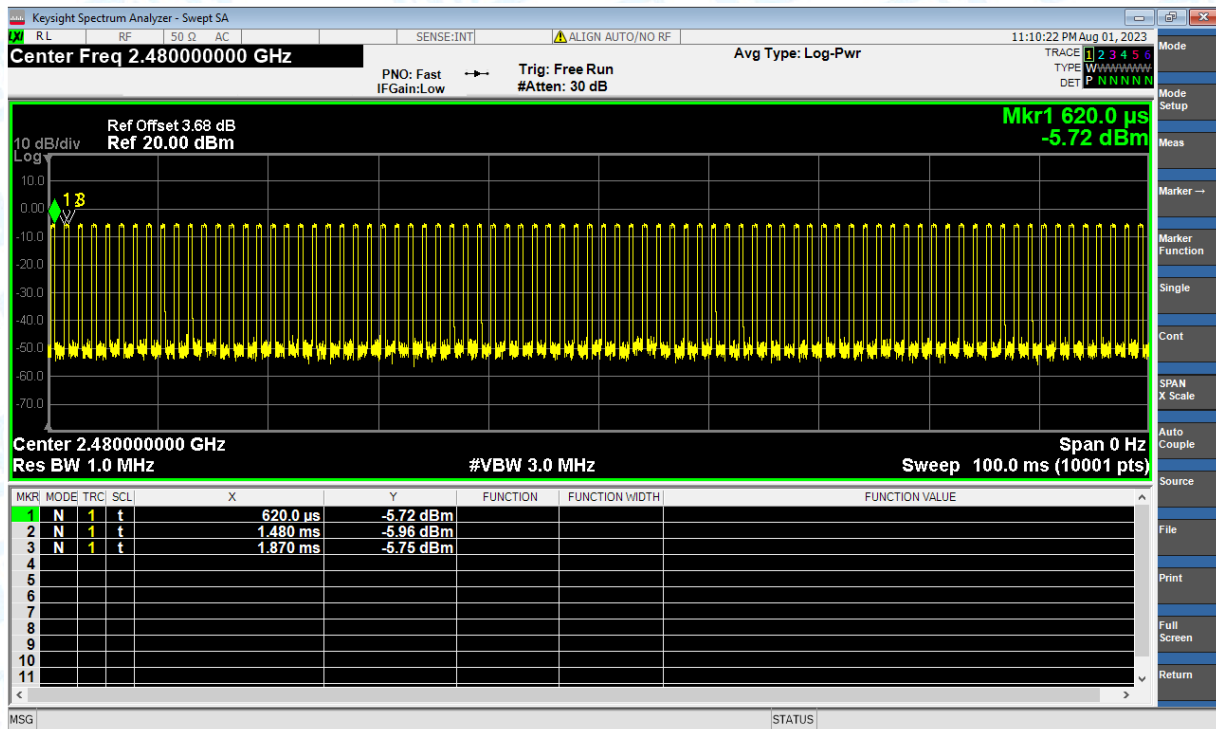
Duty Cycle NVNT 2-DH1 2402MHz Ant1



Duty Cycle NVNT 2-DH1 2441MHz Ant1



Duty Cycle NVNT 2-DH1 2480MHz Ant1

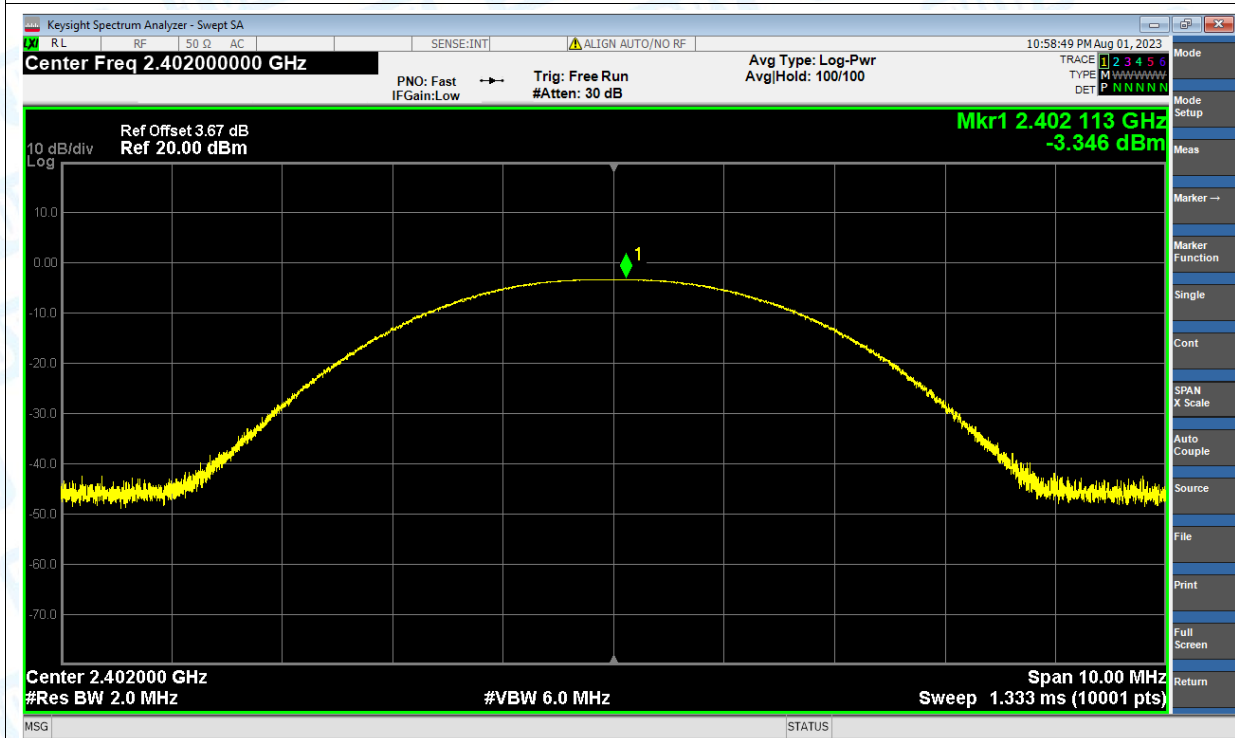


2. Maximum Conducted Output Power

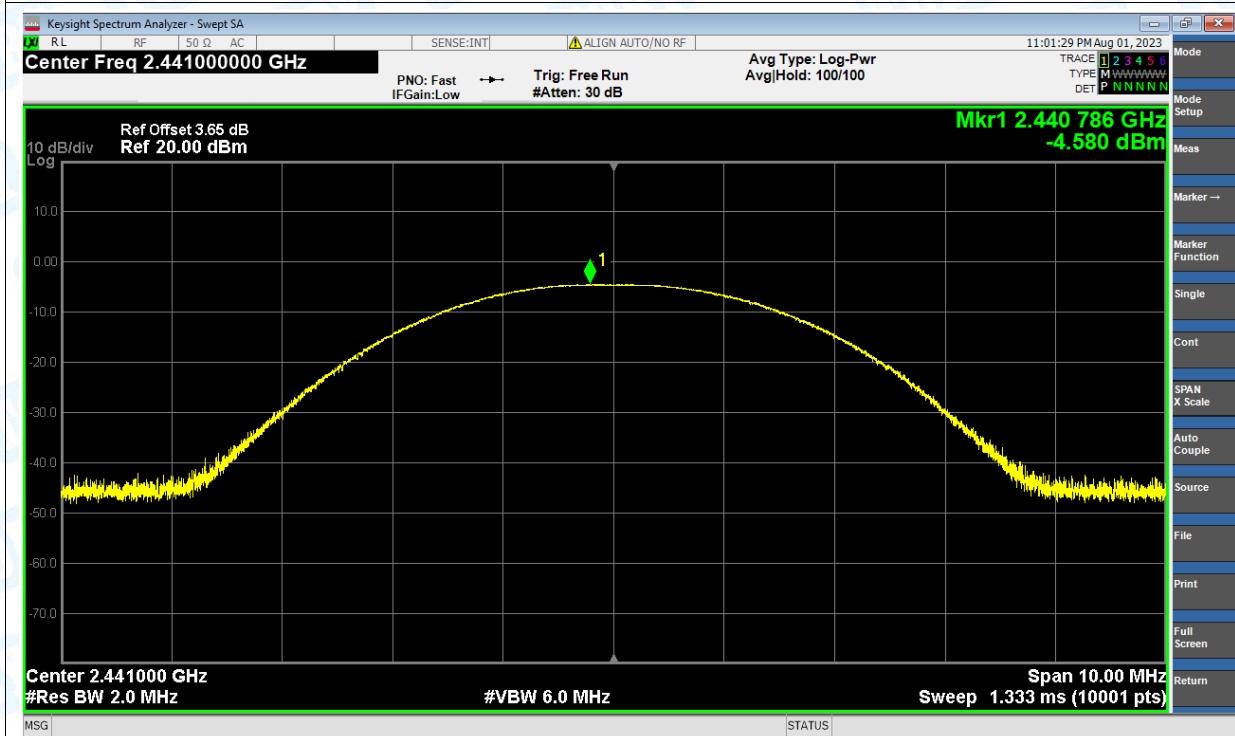
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-3.346	21	Pass
NVNT	1-DH1	2441	Ant1	-4.580	21	Pass
NVNT	1-DH1	2480	Ant1	-5.686	21	Pass
NVNT	2-DH1	2402	Ant1	-2.427	21	Pass
NVNT	2-DH1	2441	Ant1	-3.653	21	Pass
NVNT	2-DH1	2480	Ant1	-4.715	21	Pass

Test Graphs

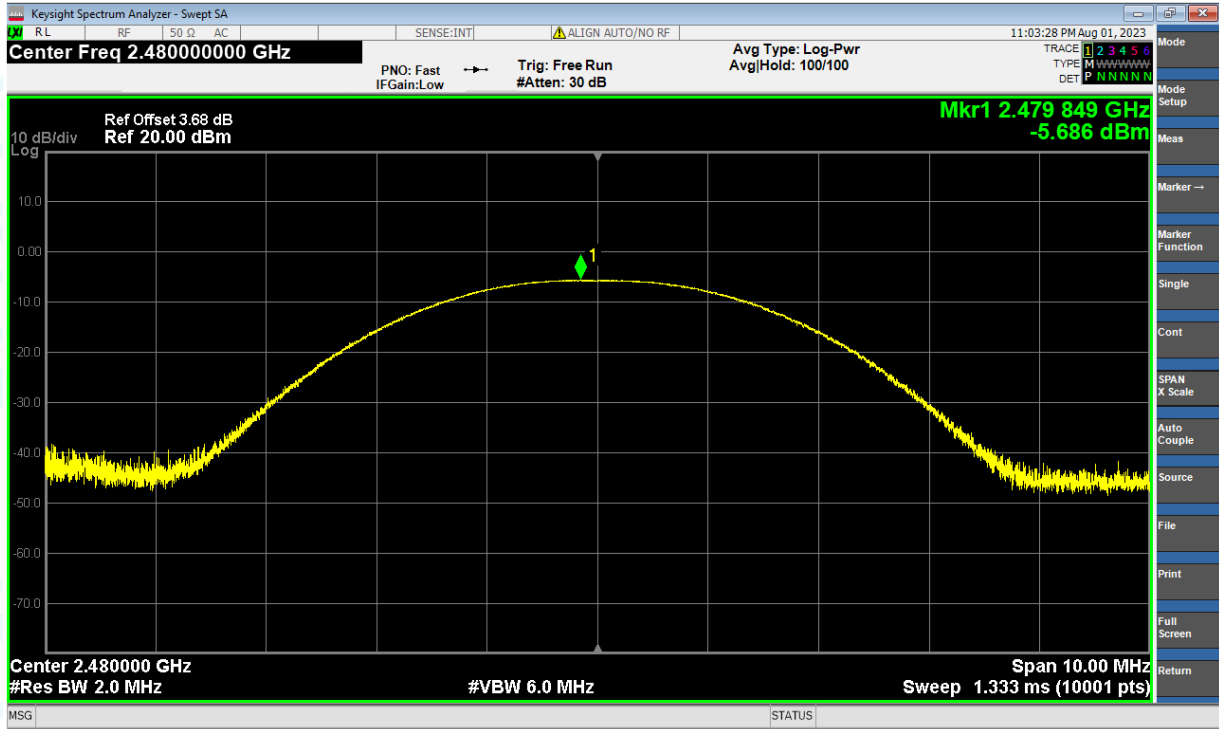
Power NVNT 1-DH1 2402MHz Ant1



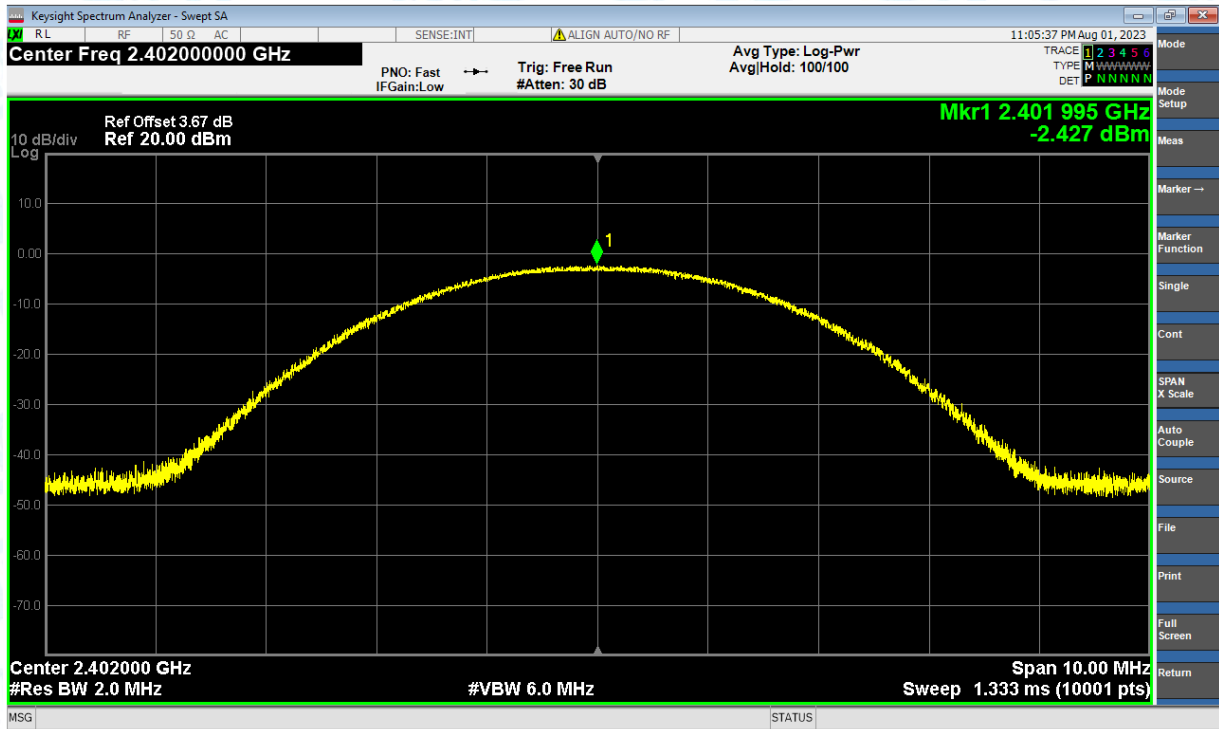
Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



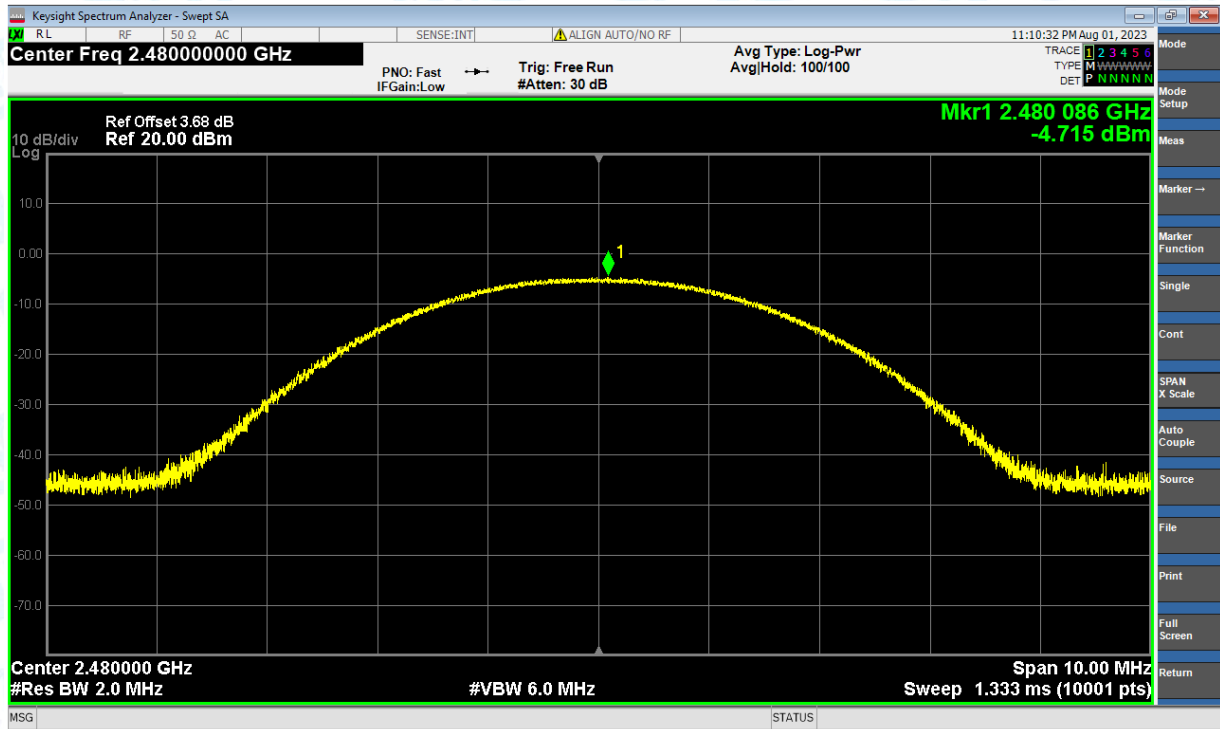
Power NVNT 2-DH1 2402MHz Ant1



Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1



3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.86	---
NVNT	1-DH1	2441	Ant1	0.88	---
NVNT	1-DH1	2480	Ant1	0.88	---
NVNT	2-DH1	2402	Ant1	1.23	---
NVNT	2-DH1	2441	Ant1	1.22	---
NVNT	2-DH1	2480	Ant1	1.23	---

Test Graphs

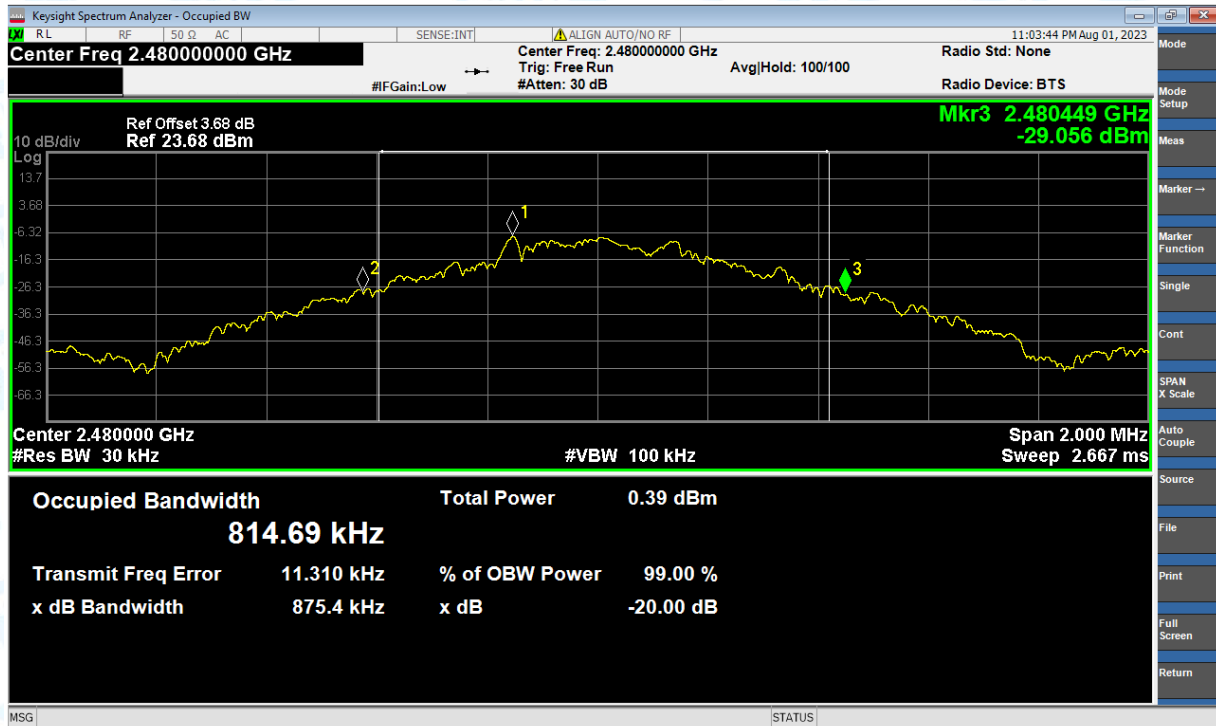
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



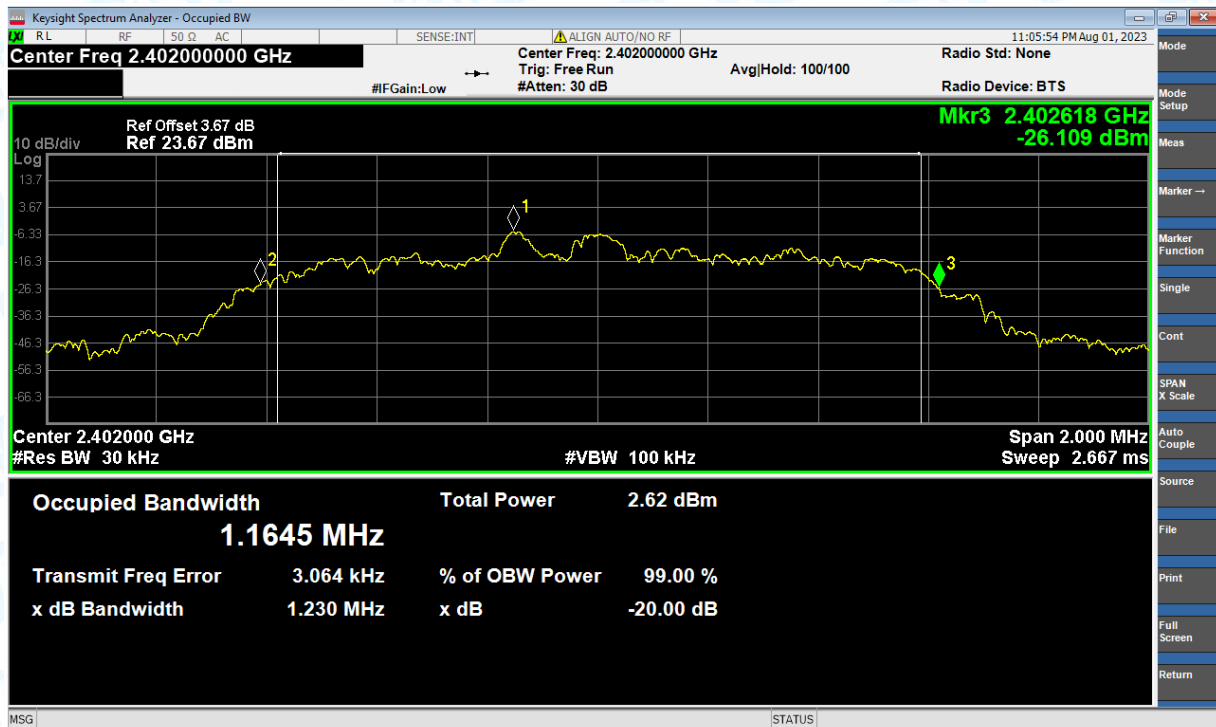
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



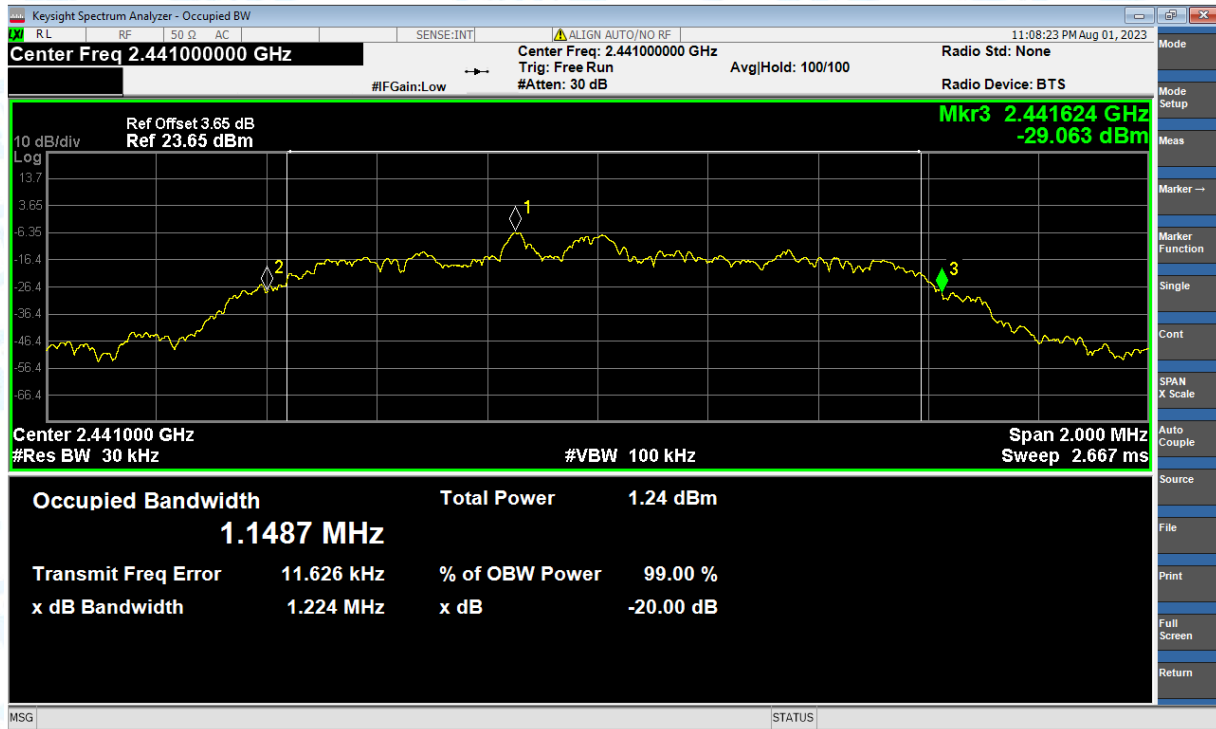
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



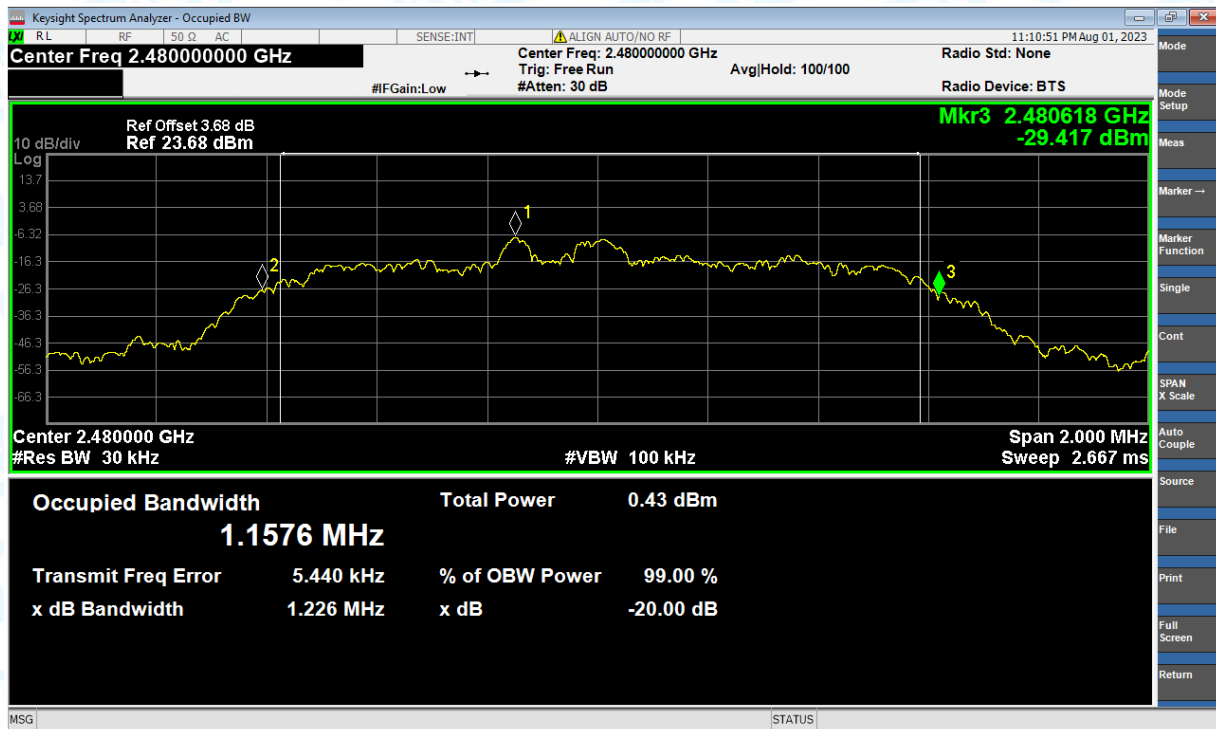
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

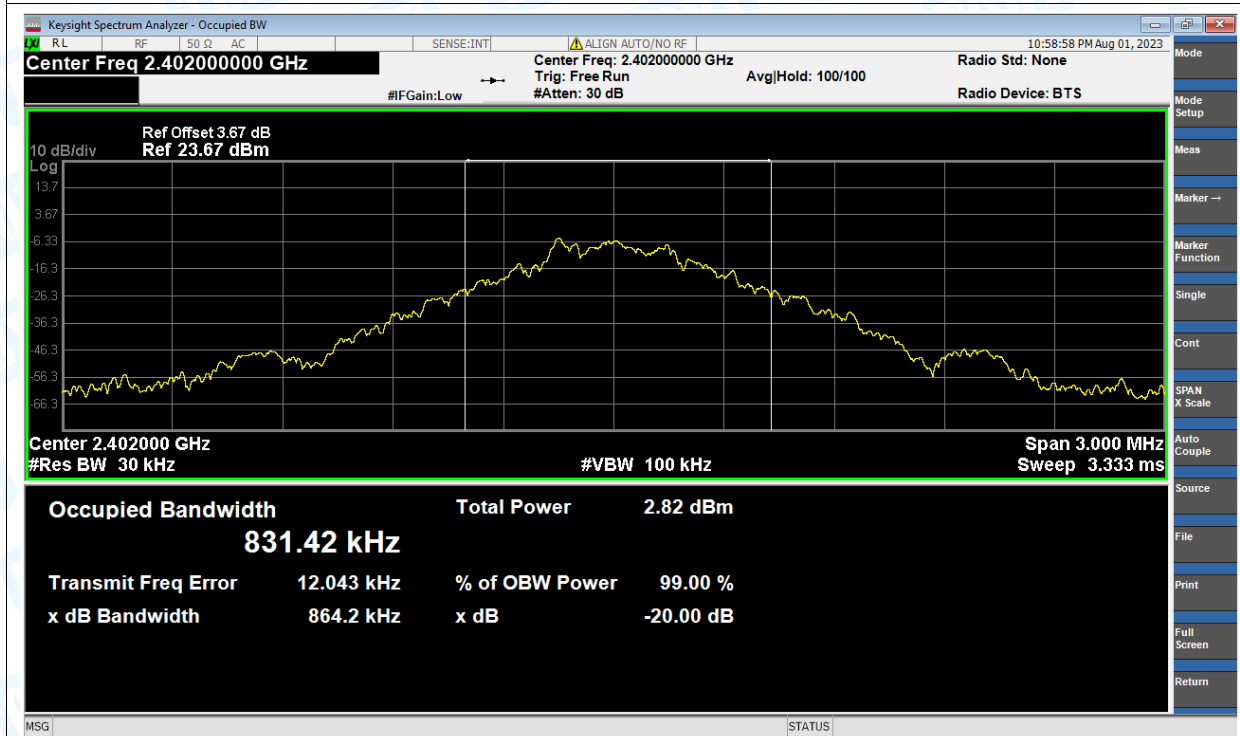


4. Occupied Channel Bandwidth

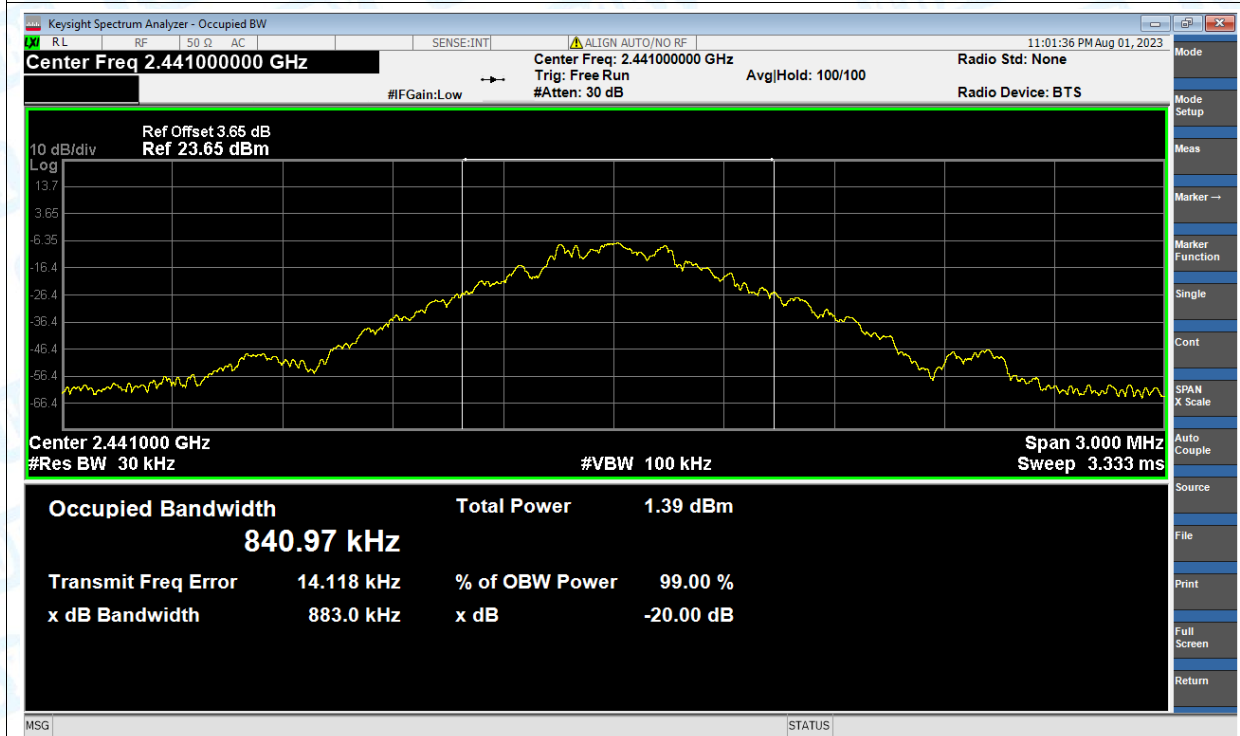
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.831
NVNT	1-DH1	2441	Ant1	0.841
NVNT	1-DH1	2480	Ant1	0.832
NVNT	2-DH1	2402	Ant1	1.148
NVNT	2-DH1	2441	Ant1	1.15
NVNT	2-DH1	2480	Ant1	1.159

Test Graphs

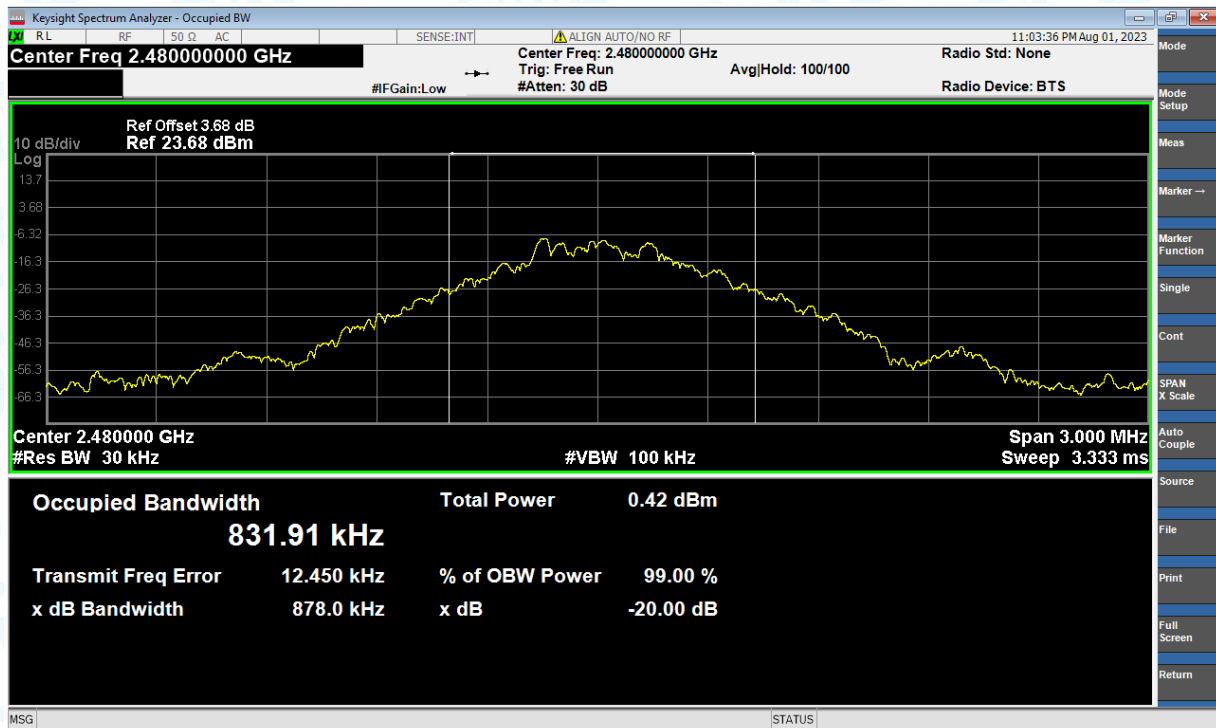
OBW NVNT 1-DH1 2402MHz Ant1



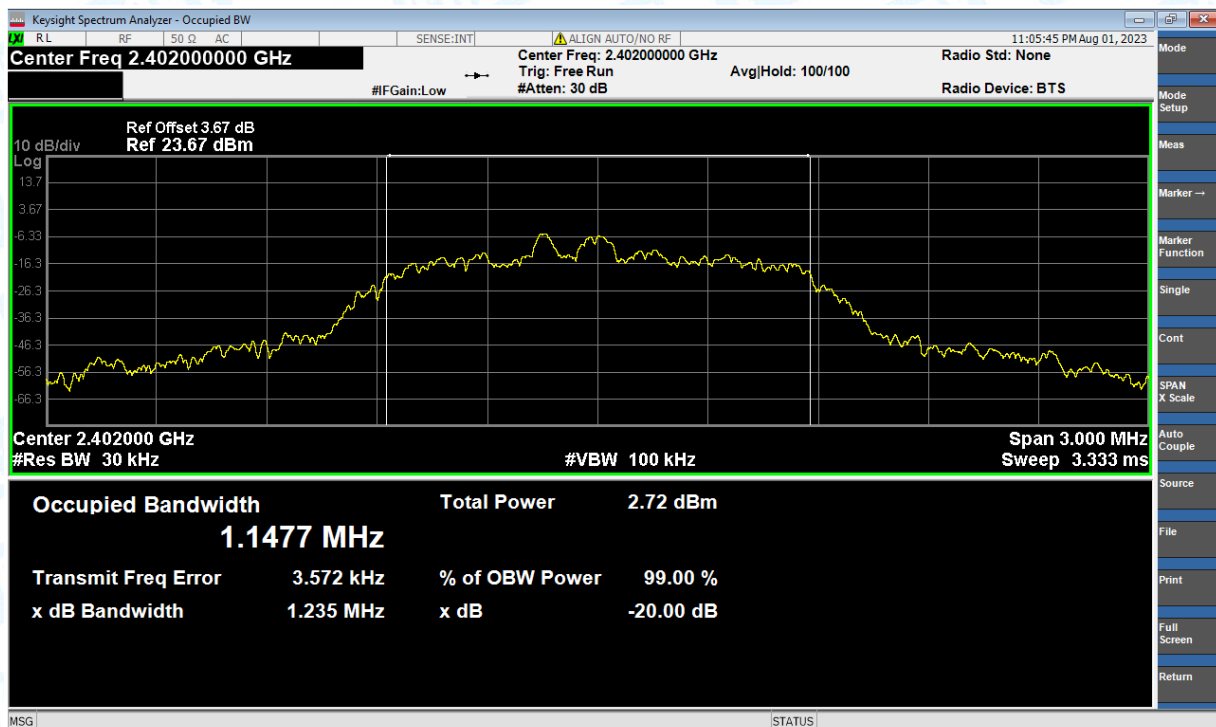
OBW NVNT 1-DH1 2441MHz Ant1



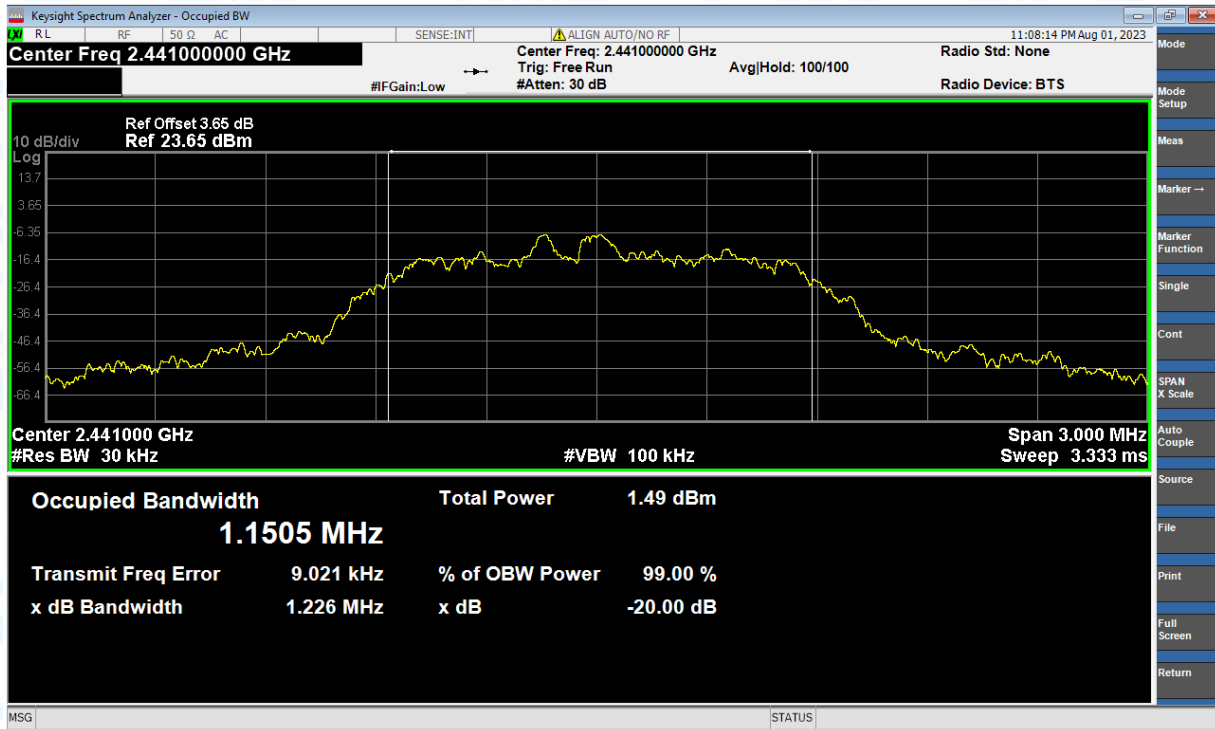
OBW NVNT 1-DH1 2480MHz Ant1



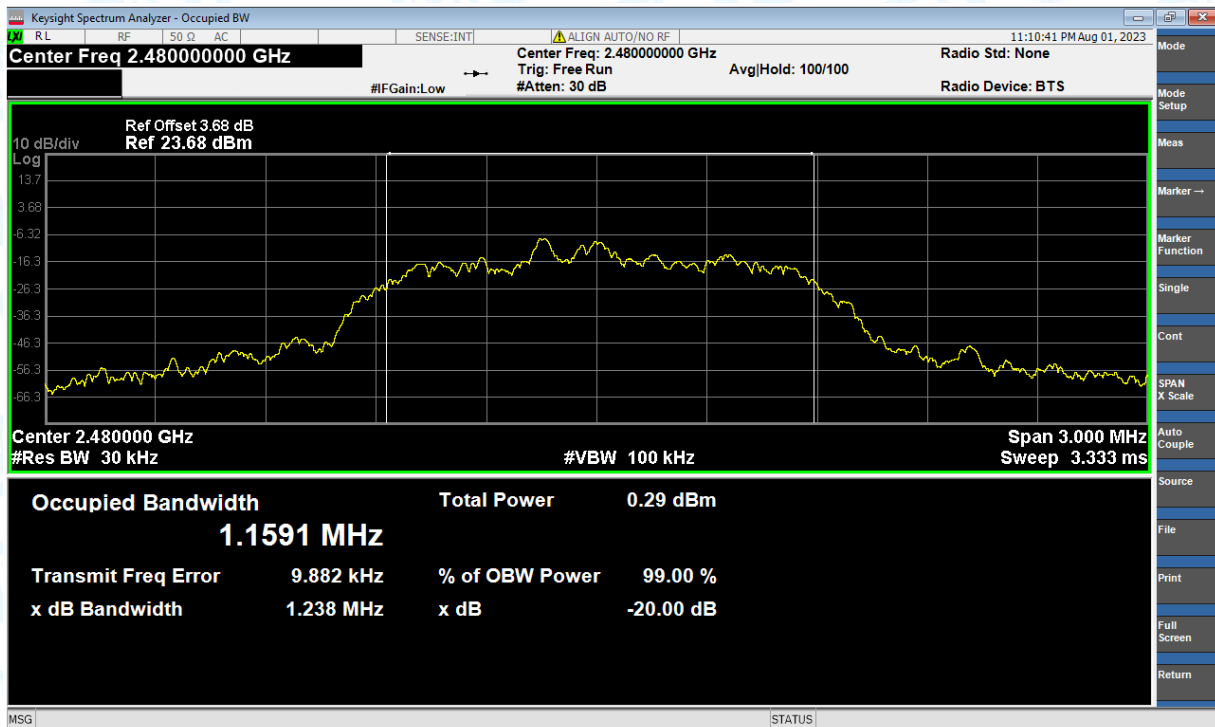
OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

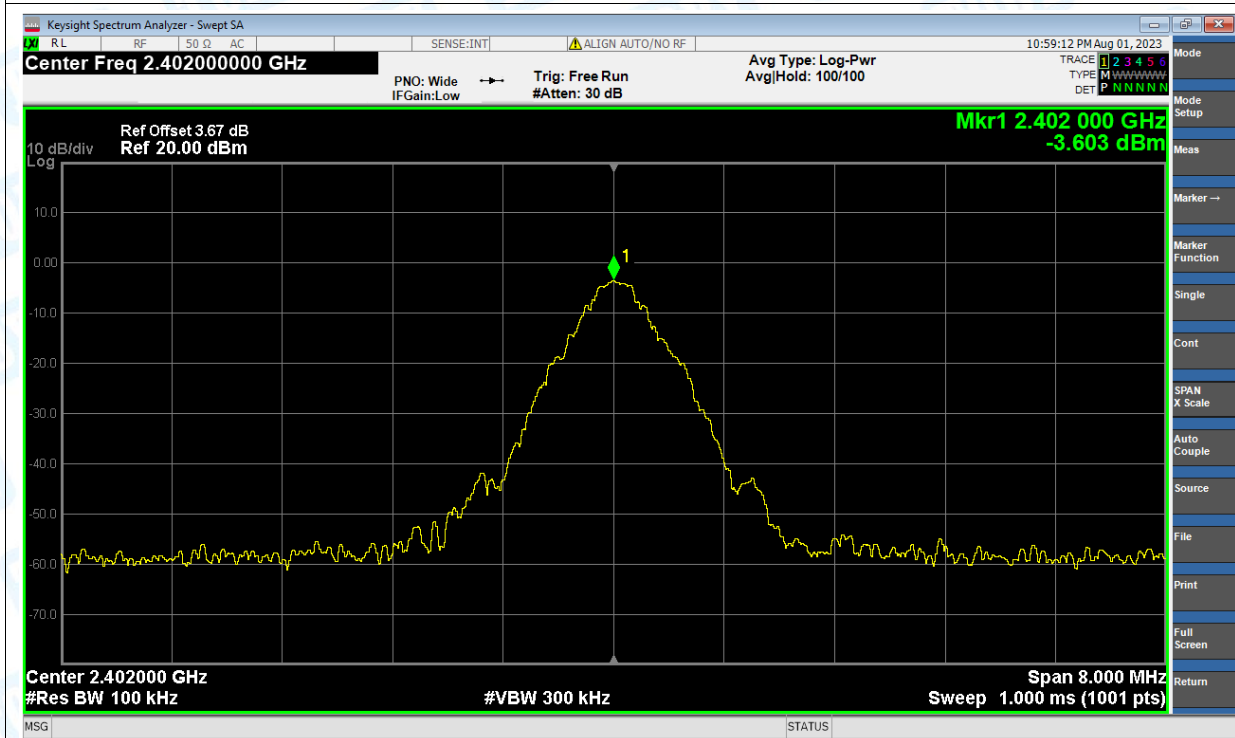


5. Band Edge

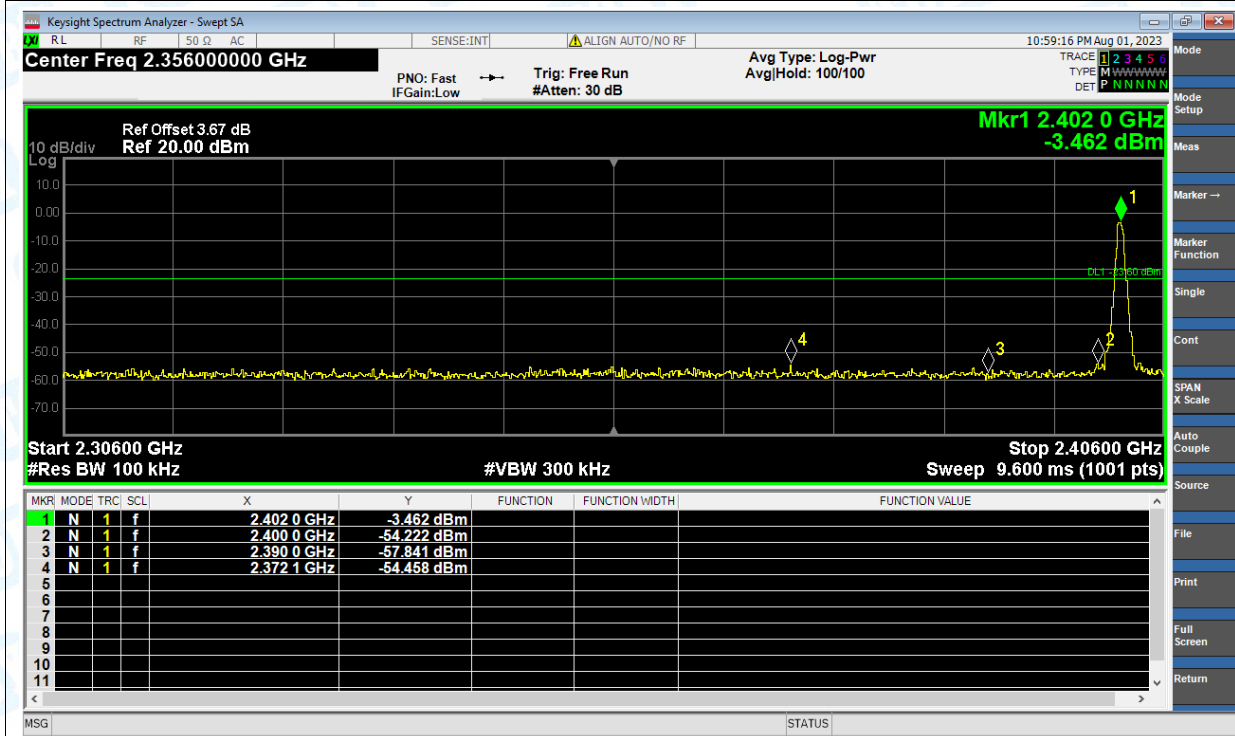
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-50.86	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-49.23	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-51.58	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-49.48	-20	Pass

Test Graphs

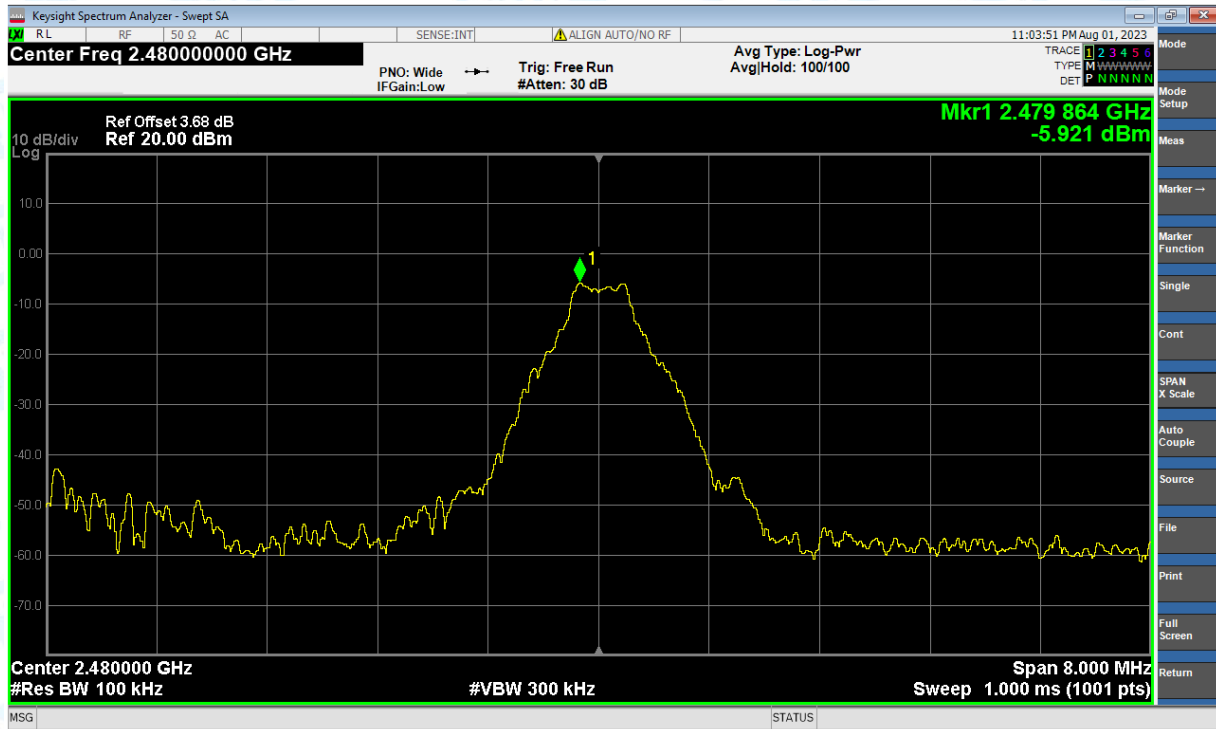
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



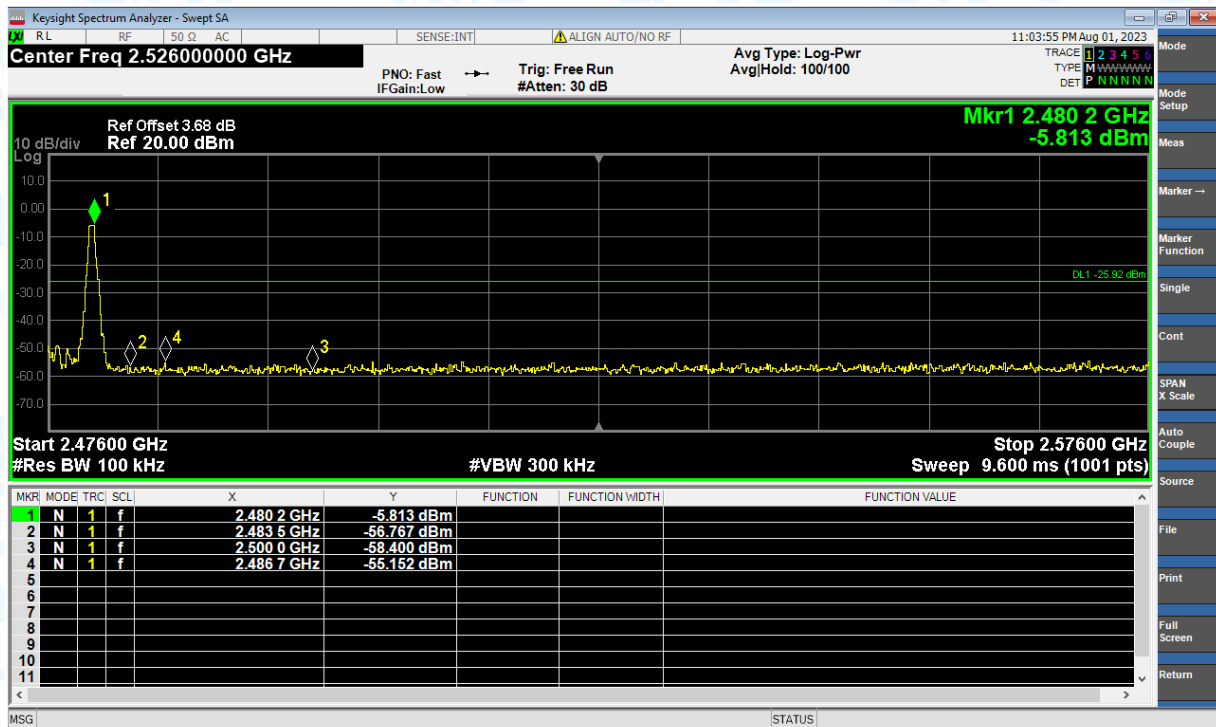
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



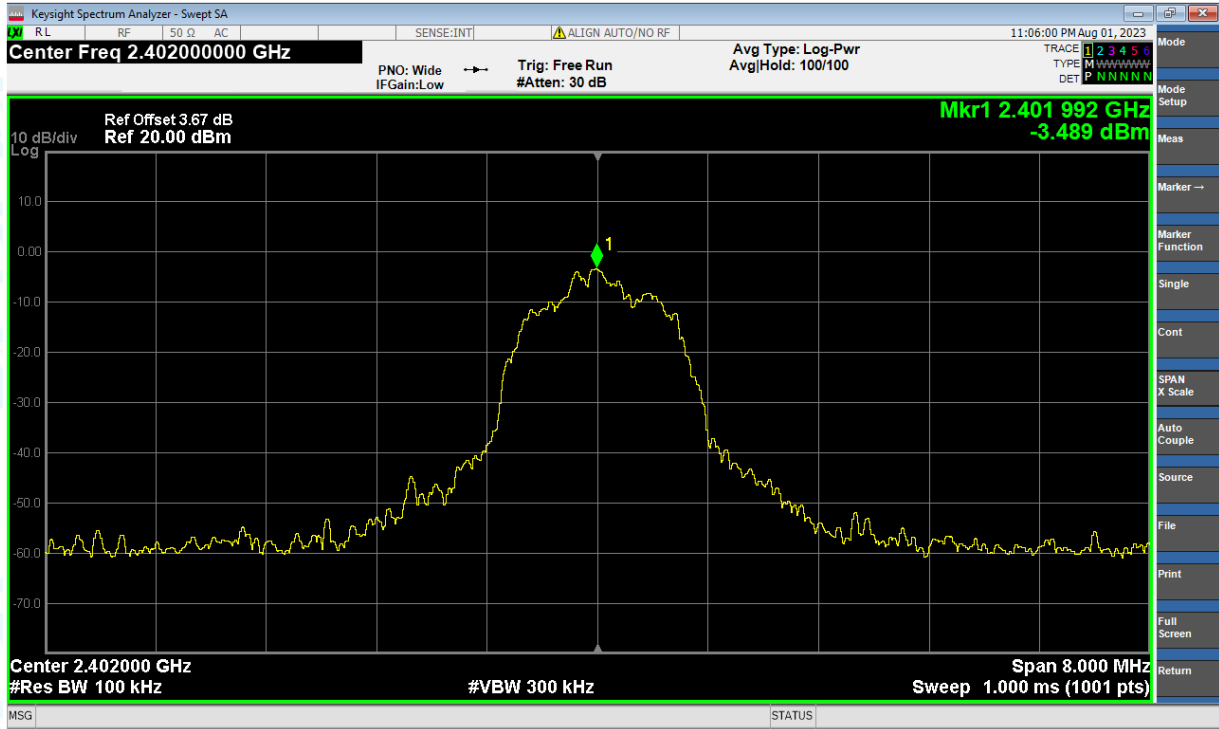
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



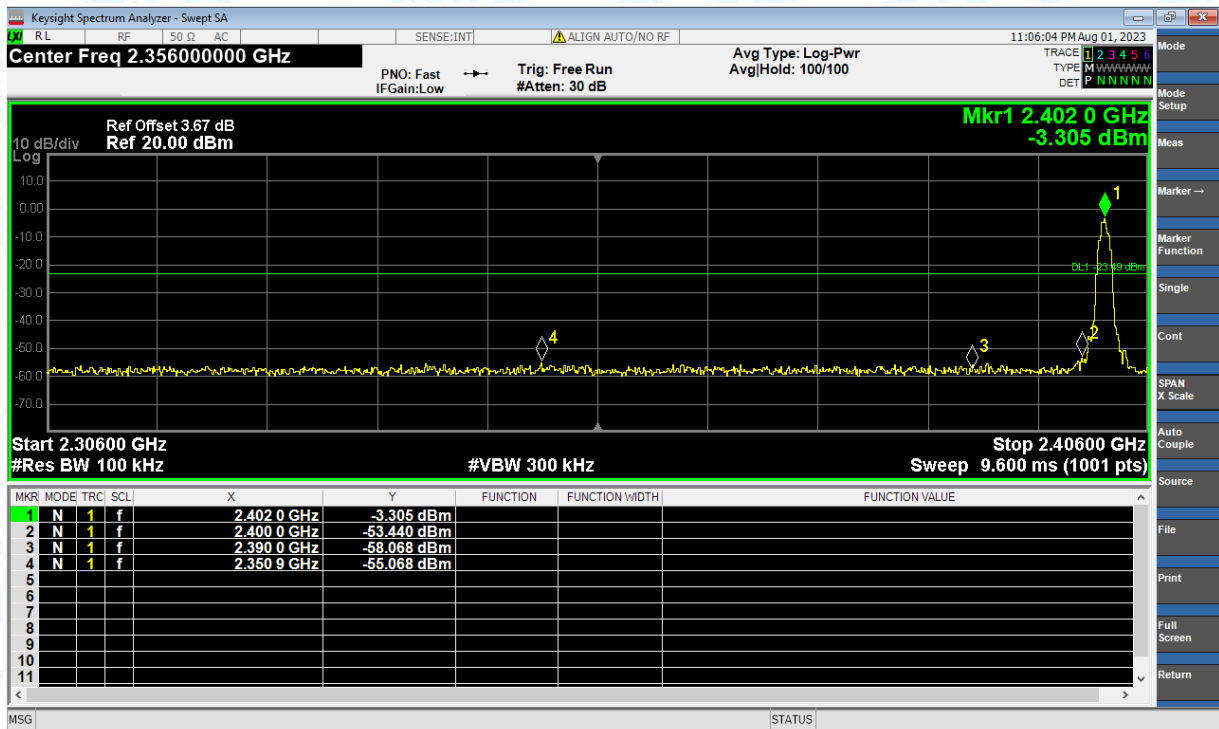
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



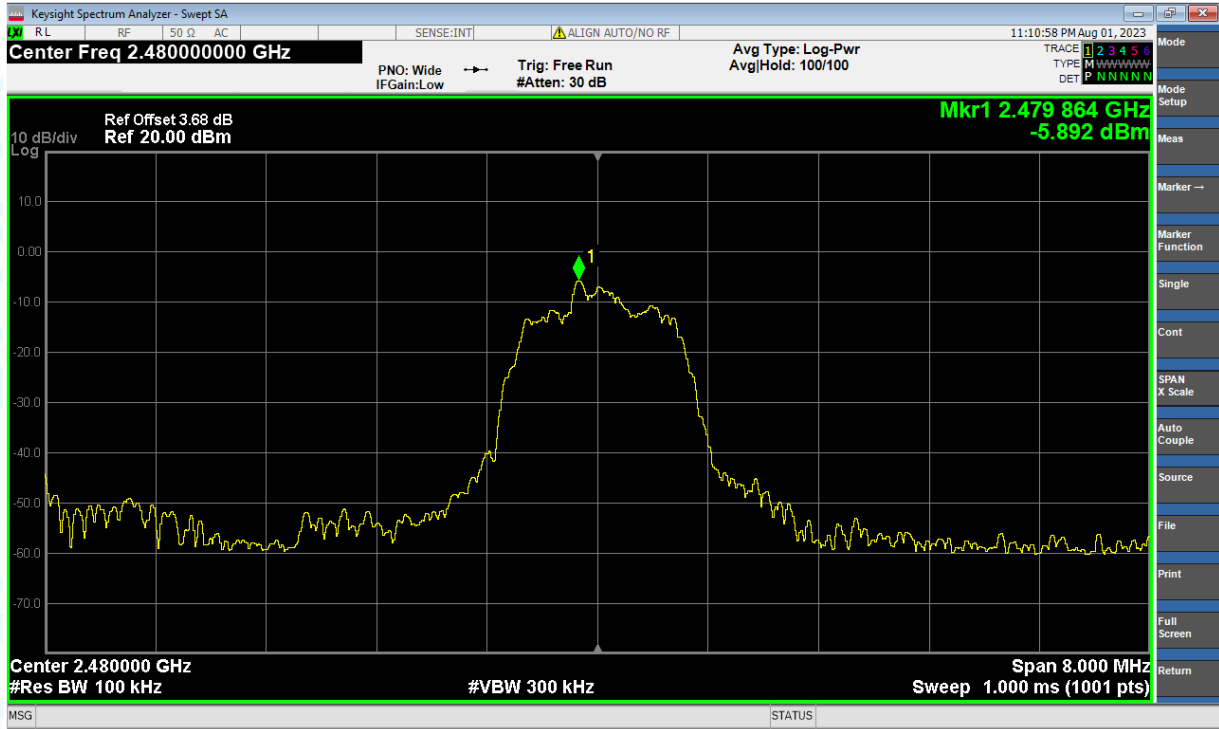
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



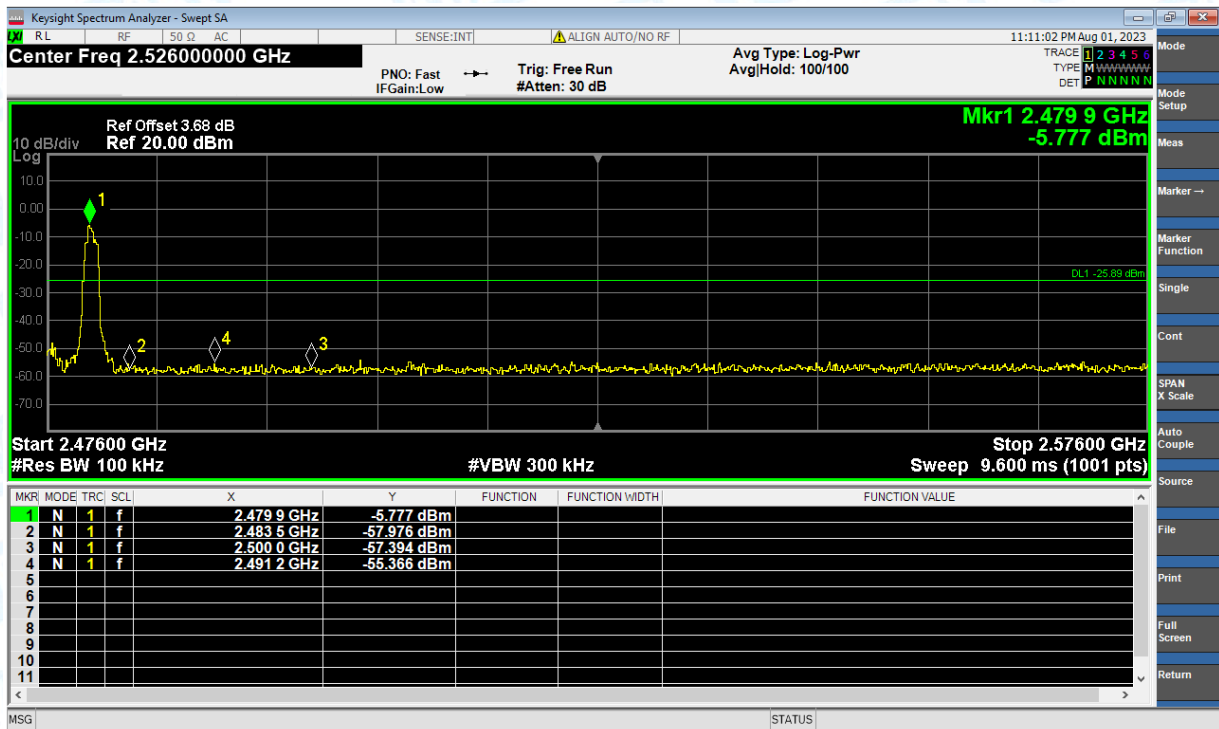
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

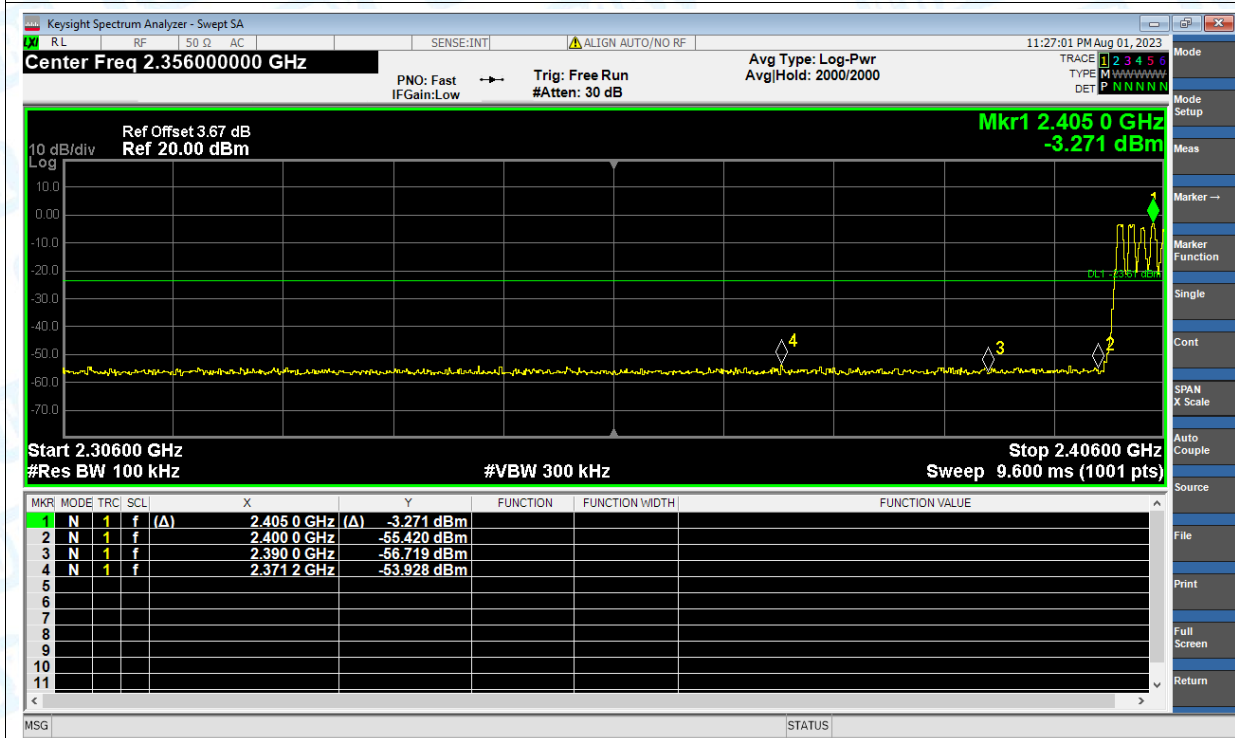
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-50.32	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-48.9	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-50.99	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-49.21	-20	Pass

Test Graphs

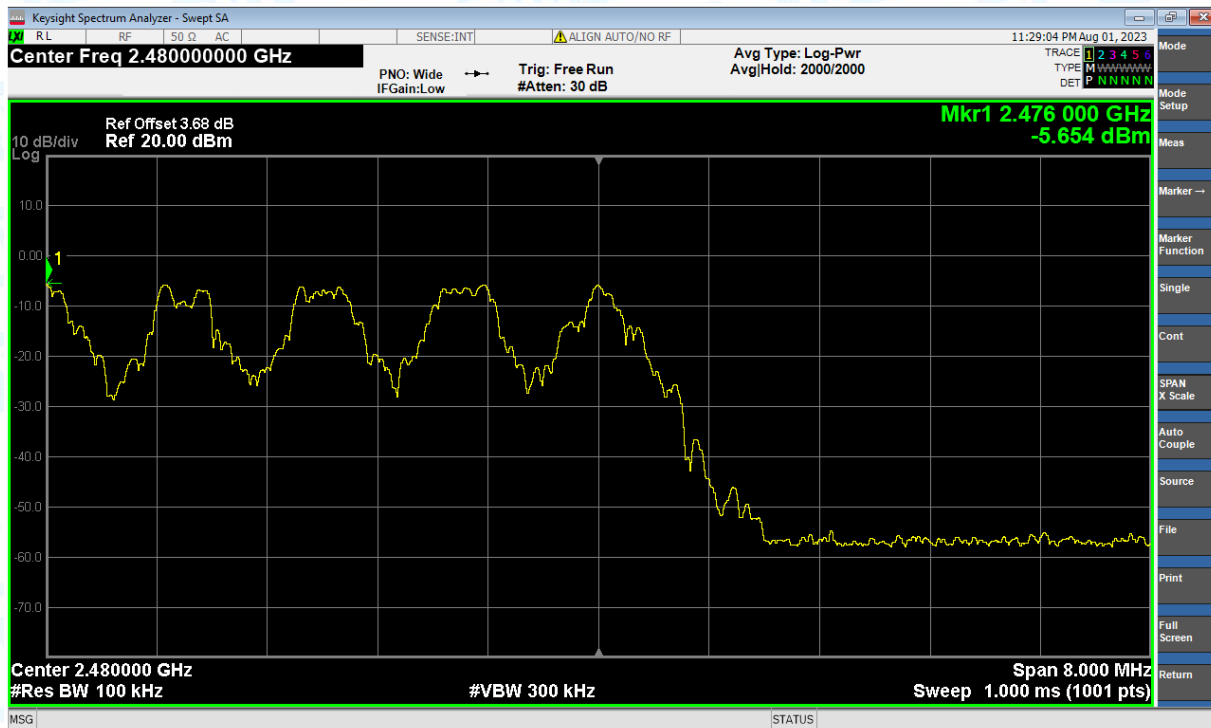
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



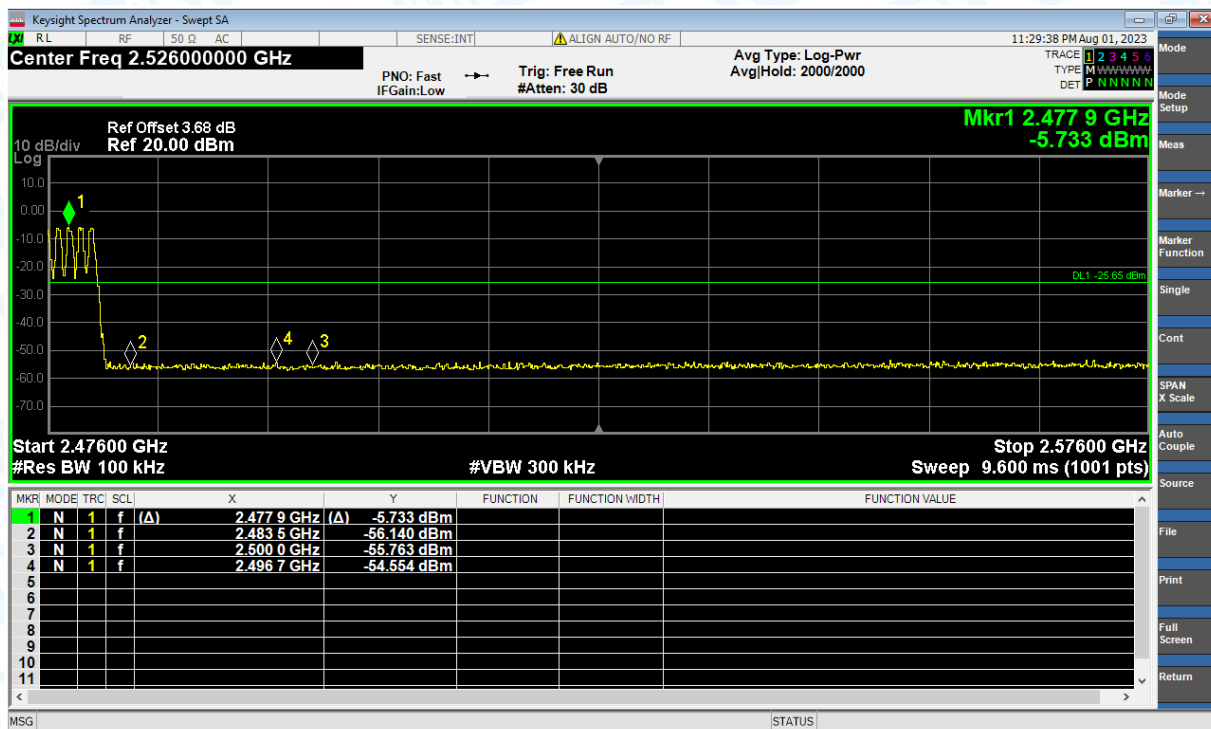
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



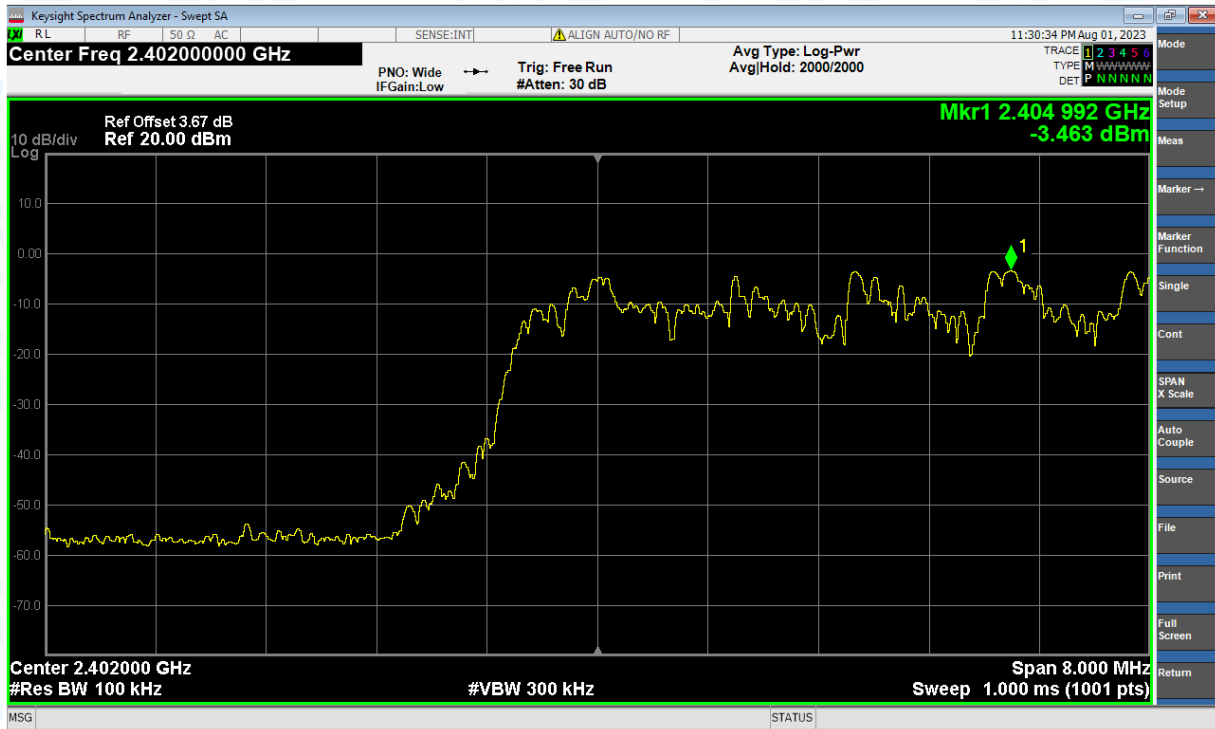
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



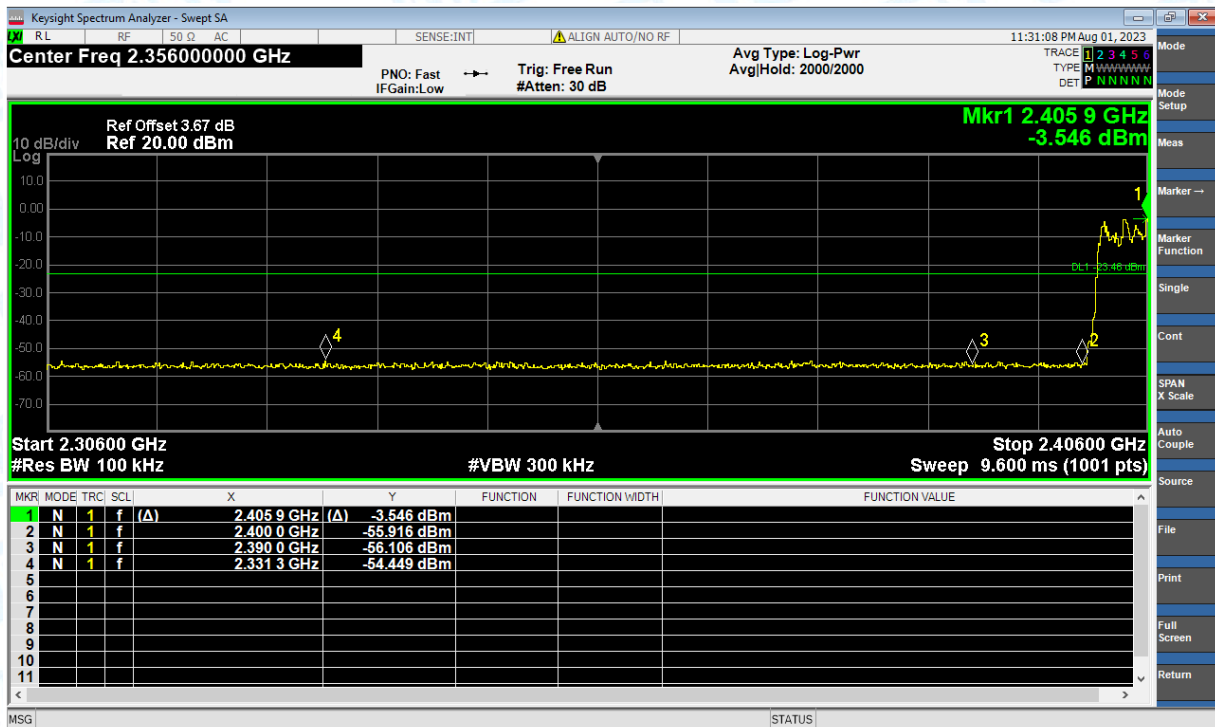
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



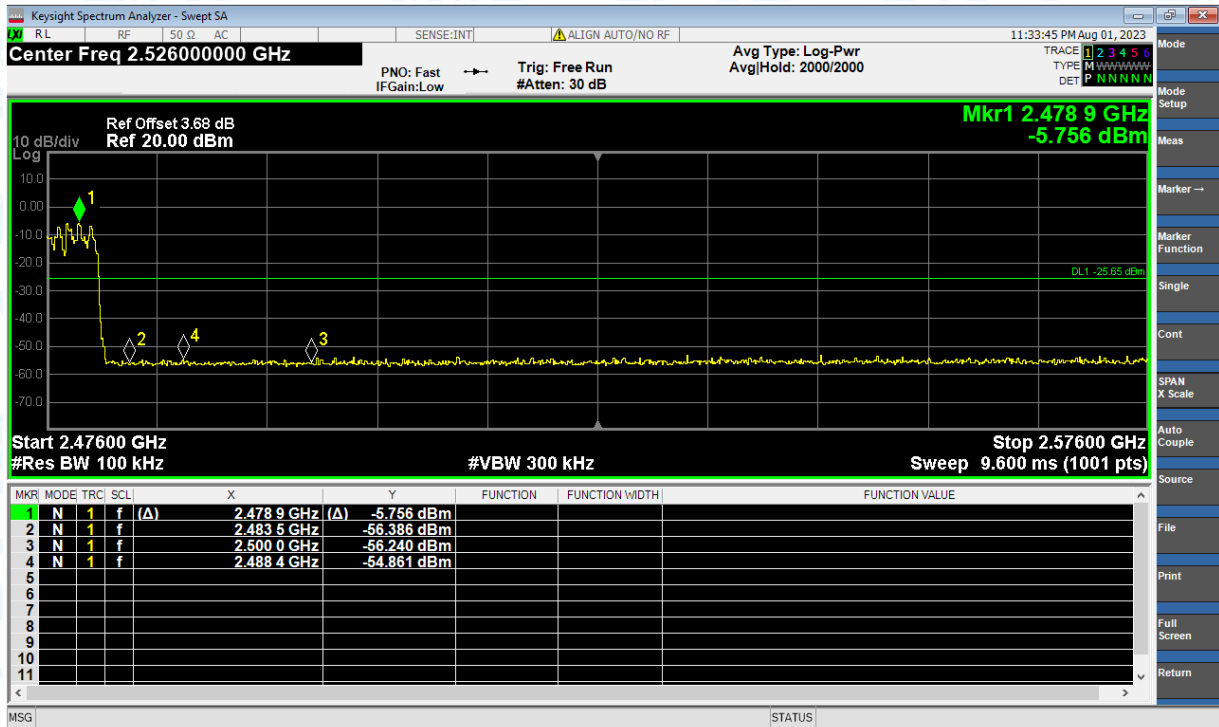
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



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

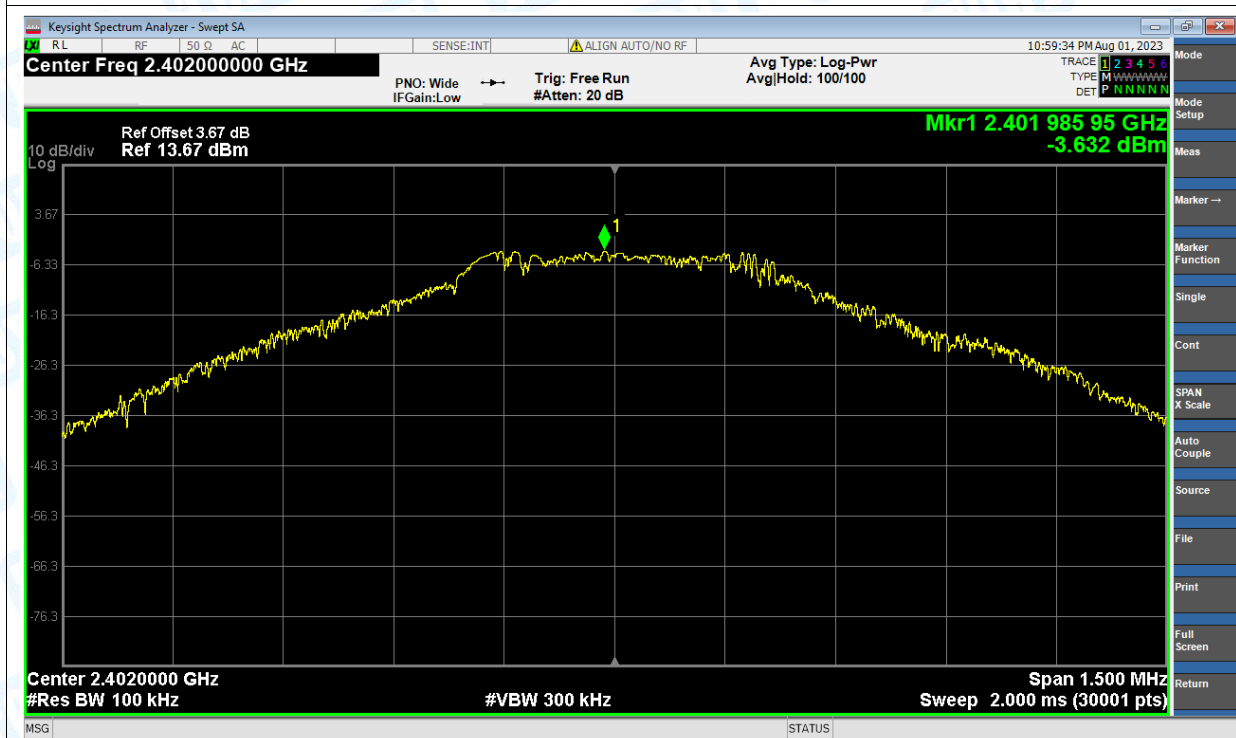


7. Conducted RF Spurious Emission

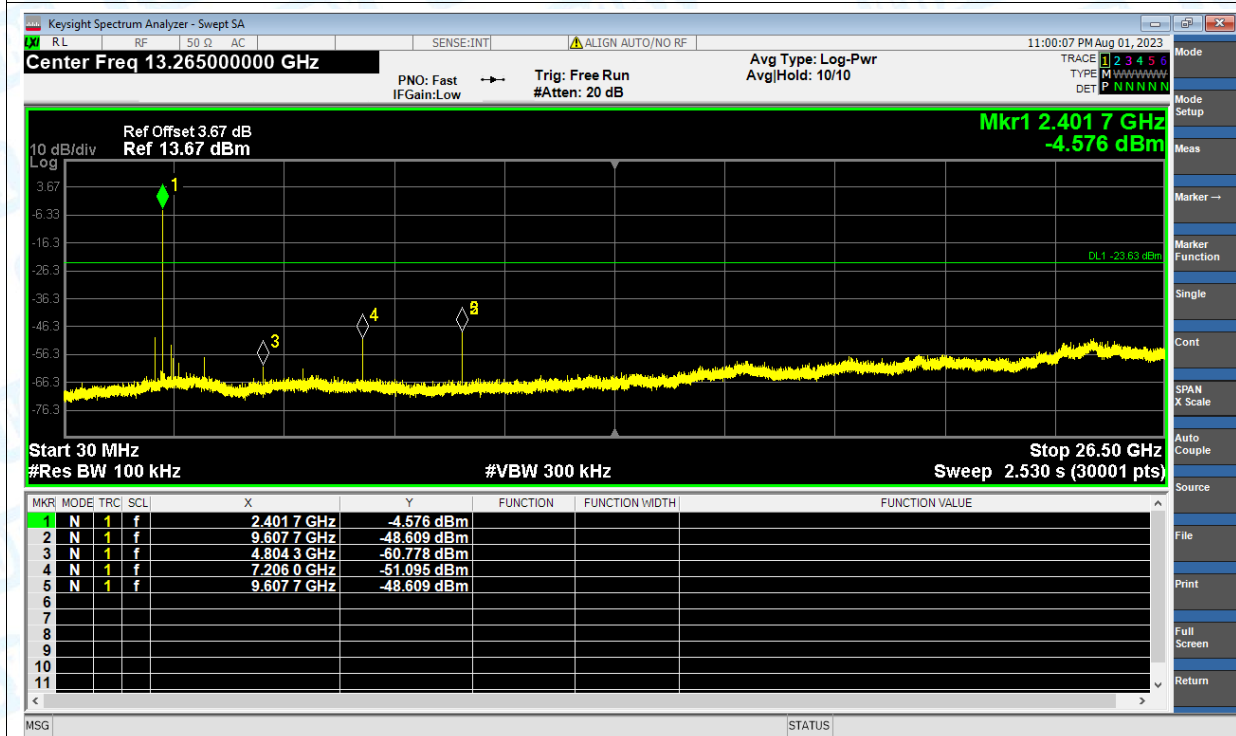
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-44.98	-20	Pass
NVNT	1-DH1	2441	Ant1	-43.82	-20	Pass
NVNT	1-DH1	2480	Ant1	-41.74	-20	Pass
NVNT	2-DH1	2402	Ant1	-44.87	-20	Pass
NVNT	2-DH1	2441	Ant1	-44.98	-20	Pass
NVNT	2-DH1	2480	Ant1	-42.1	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



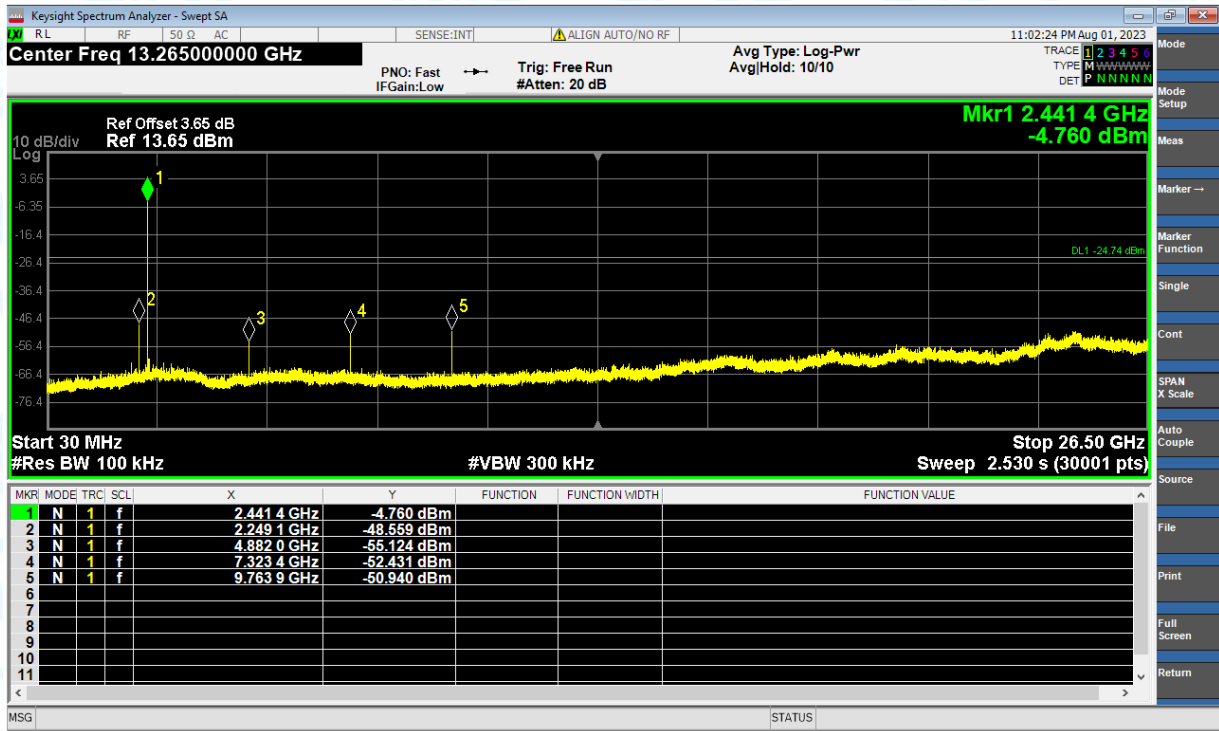
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



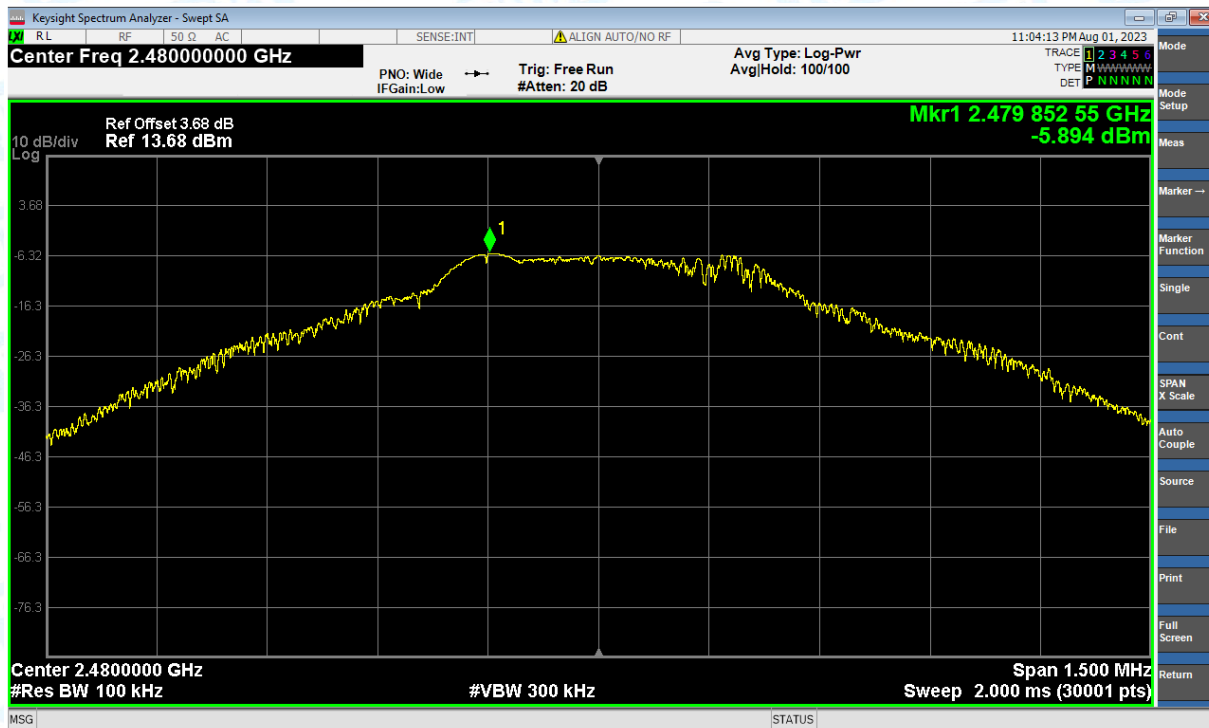
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



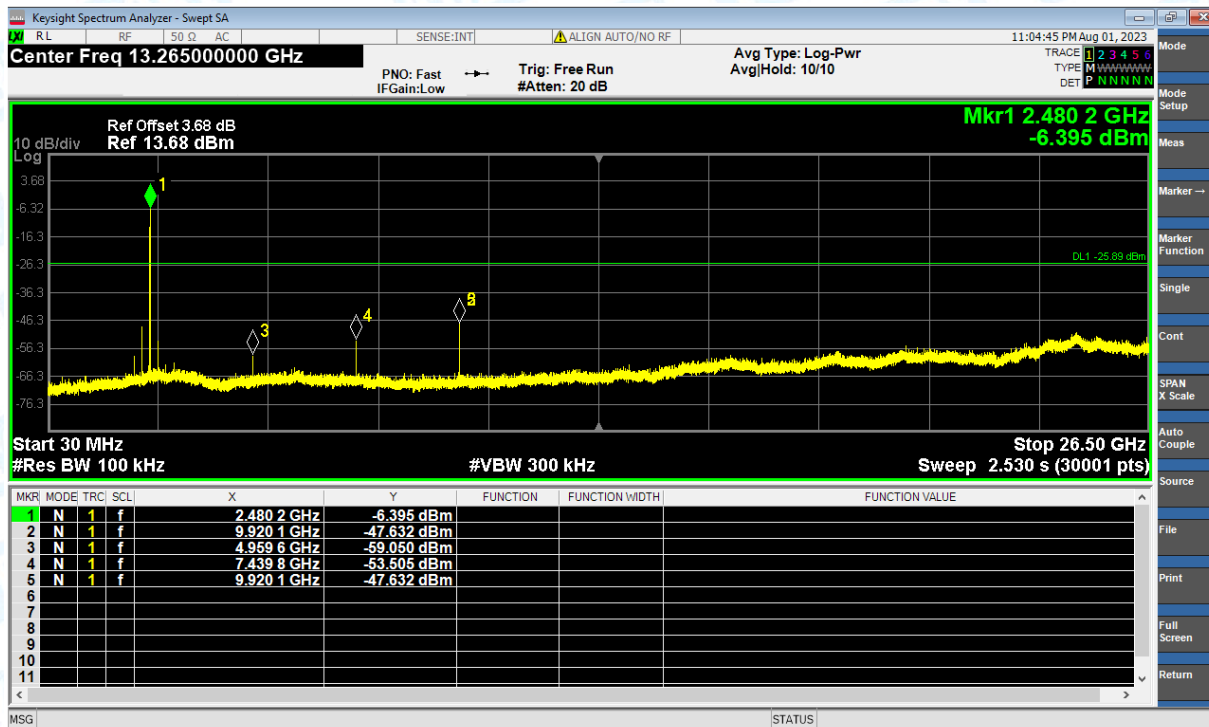
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



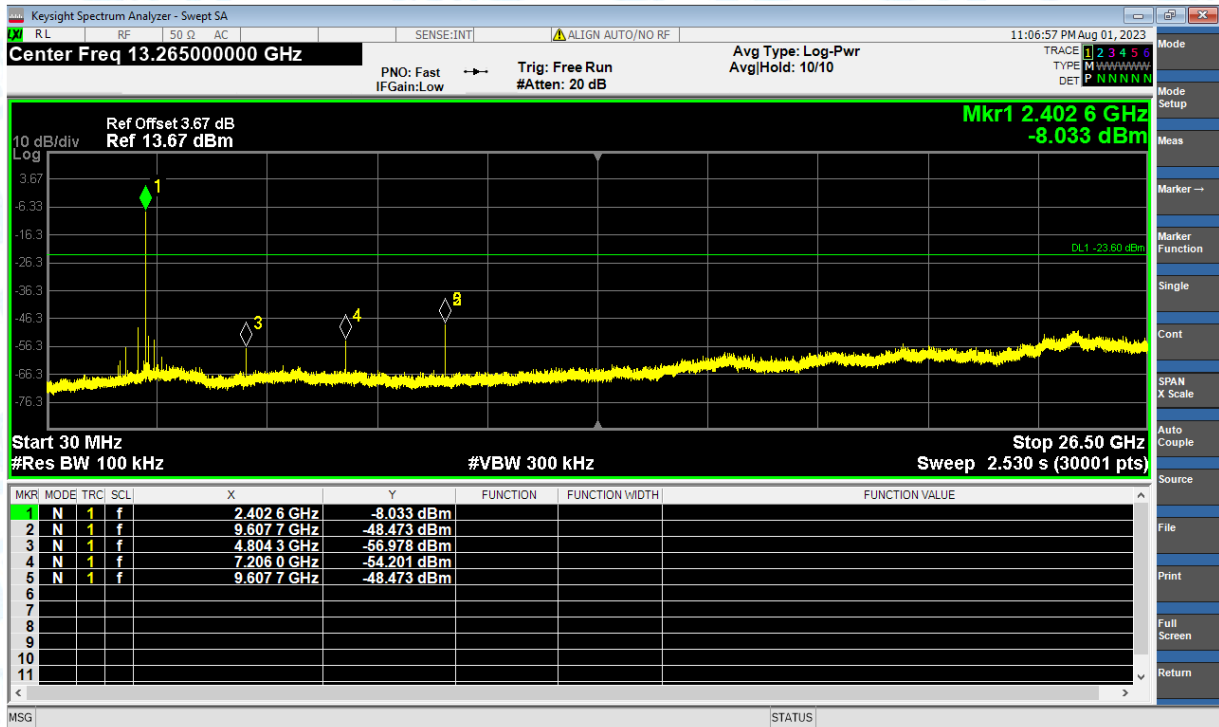
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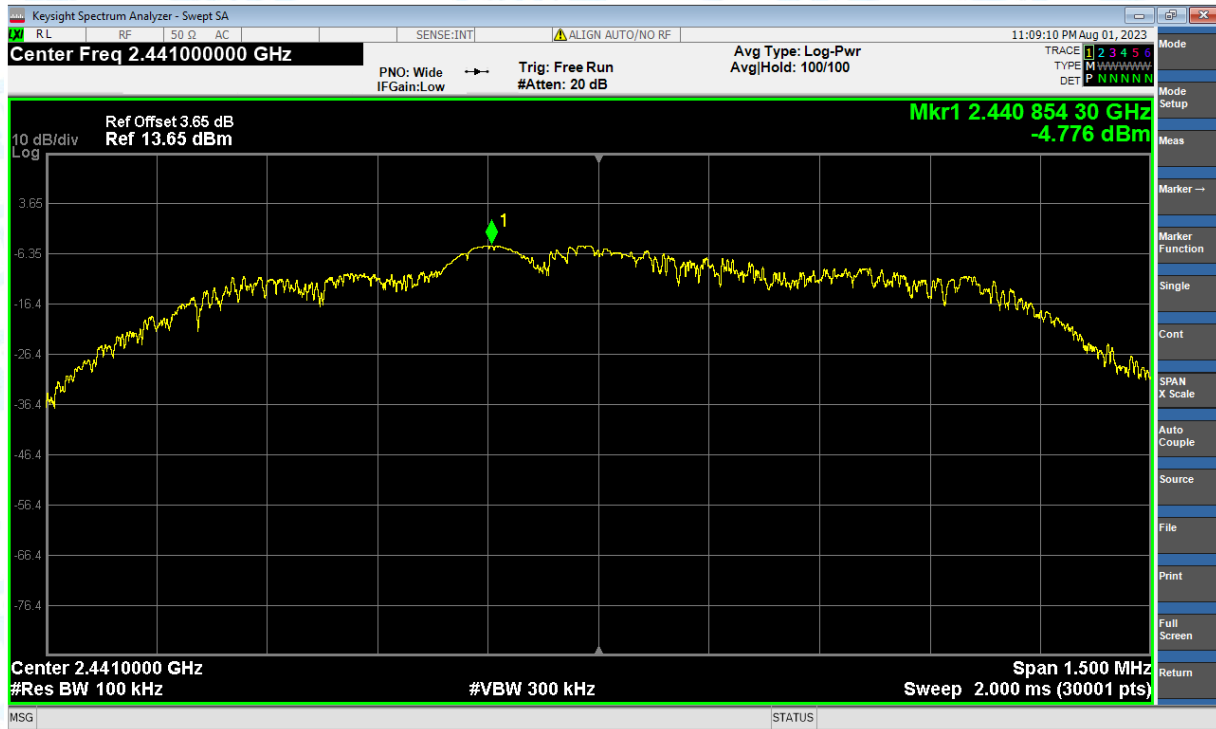
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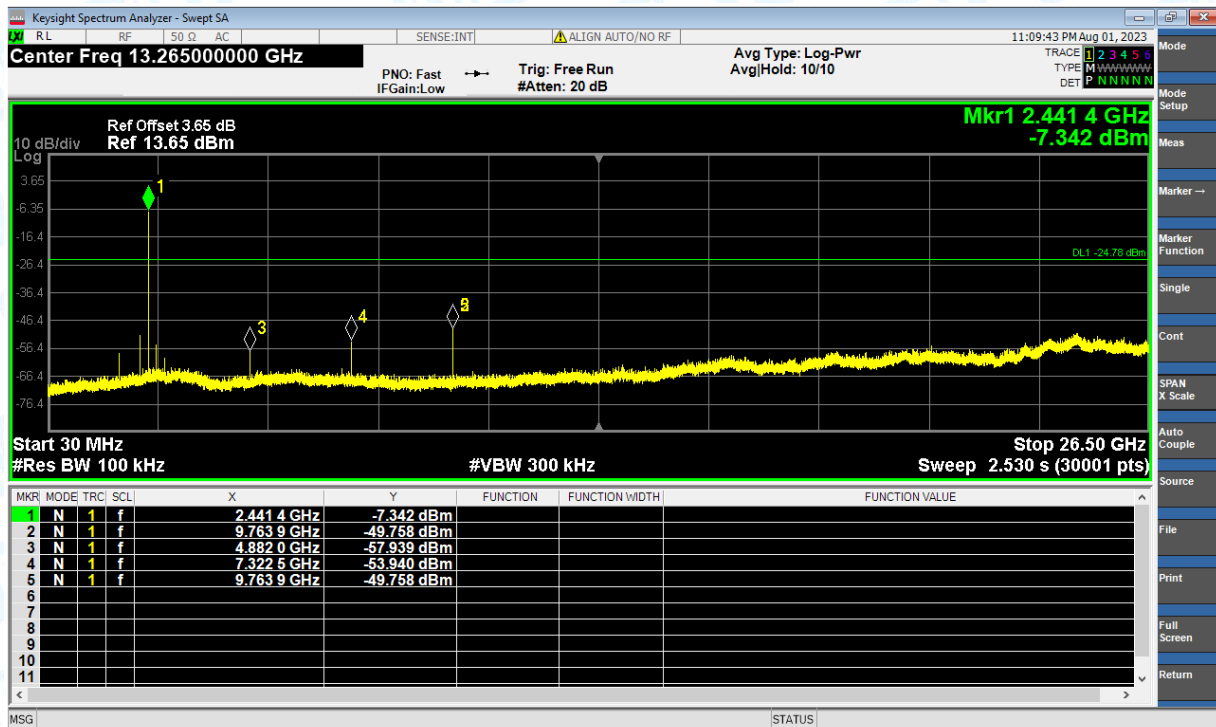
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Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



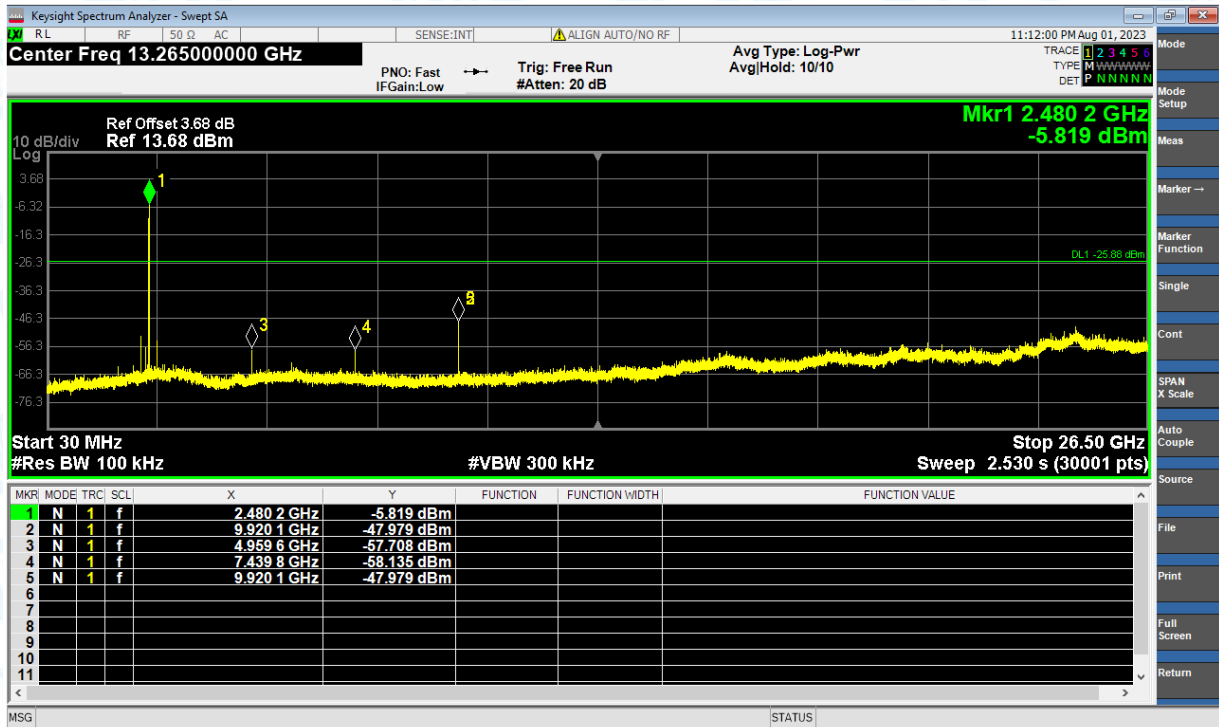
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Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission

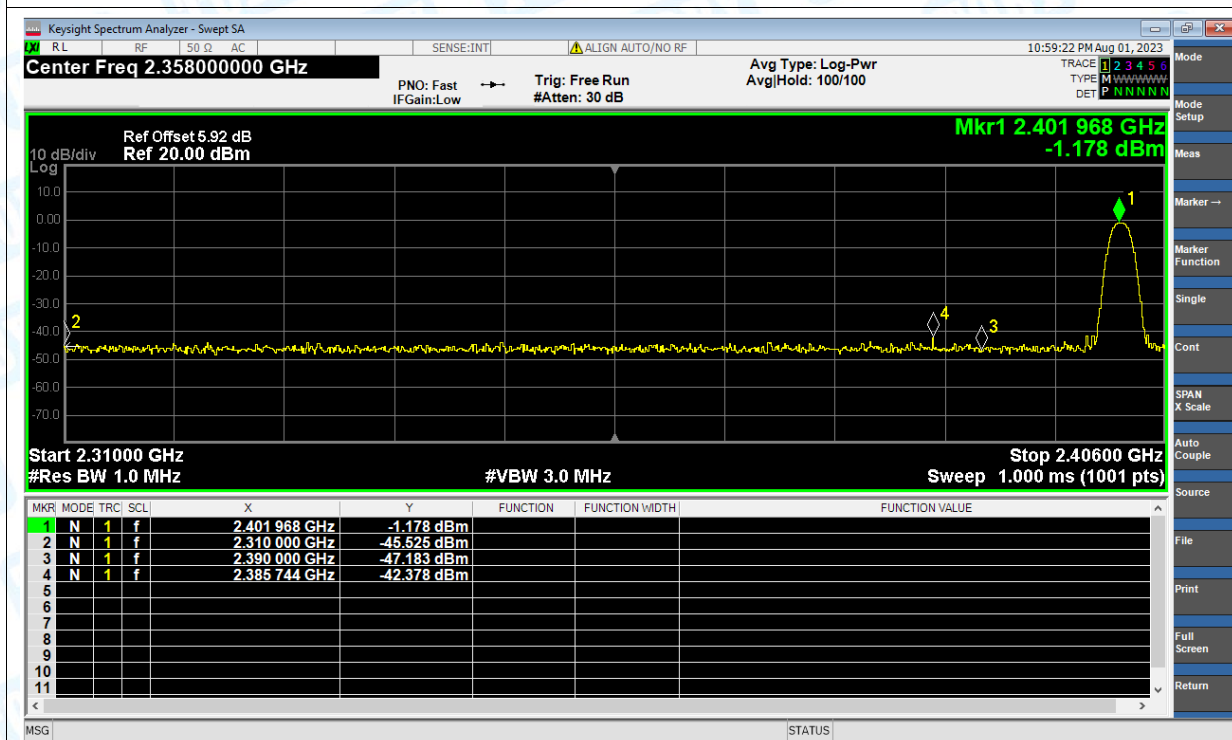


8. Restrict Band

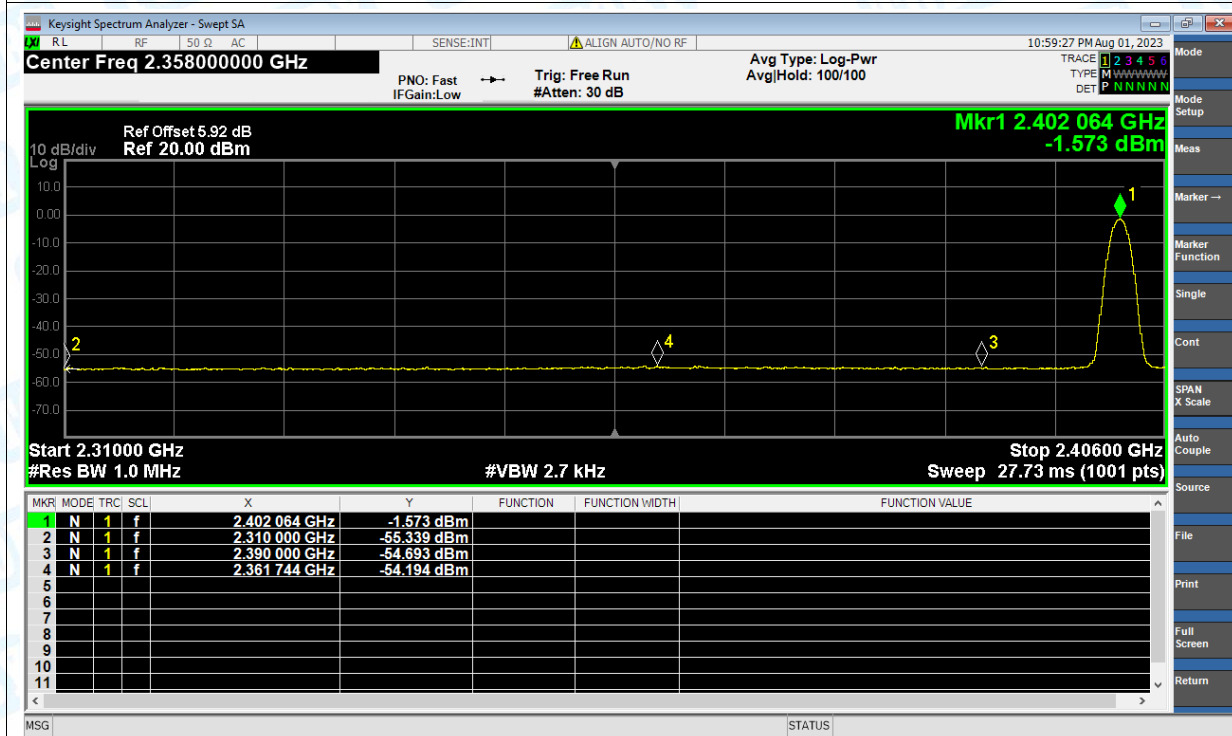
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-45.53	2.25	51.98	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.34	2.25	42.17	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2385.744	-42.38	2.25	55.13	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2361.744	-54.19	2.25	43.32	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-46.73	2.25	50.78	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.11	2.25	42.4	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.04	2.25	51.47	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.36	2.25	43.15	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2487.88	-43.28	2.25	54.23	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.512	-54.36	2.25	43.15	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-44.6	2.25	52.91	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.08	2.25	42.43	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-45.9	2.25	51.61	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.39	2.25	42.12	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2369.232	-43.24	2.25	54.27	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2359.44	-54.27	2.25	43.24	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.93	2.25	50.58	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-54.91	2.25	42.6	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-44.85	2.25	52.66	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.7	2.25	42.81	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2488.984	-43.53	2.25	53.98	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.488	-54.29	2.25	43.22	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-46.58	2.25	50.93	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.14	2.25	42.37	Average	54	Pass

Test Graphs

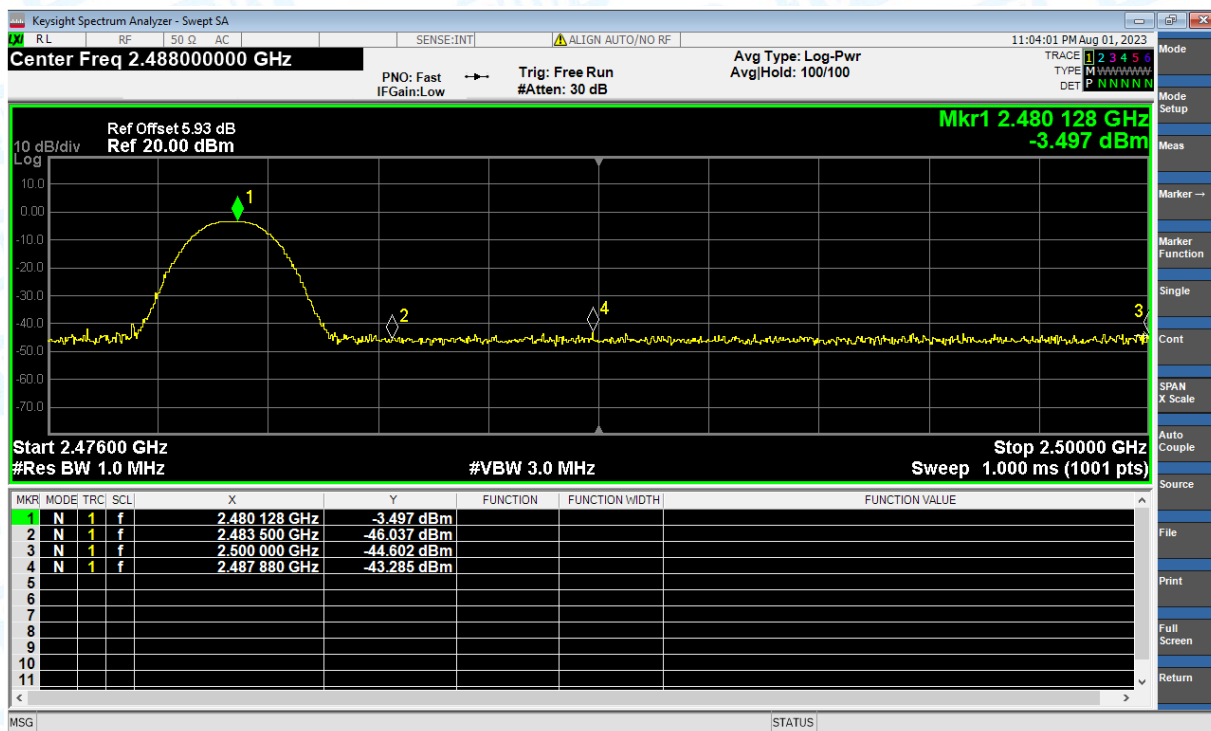
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



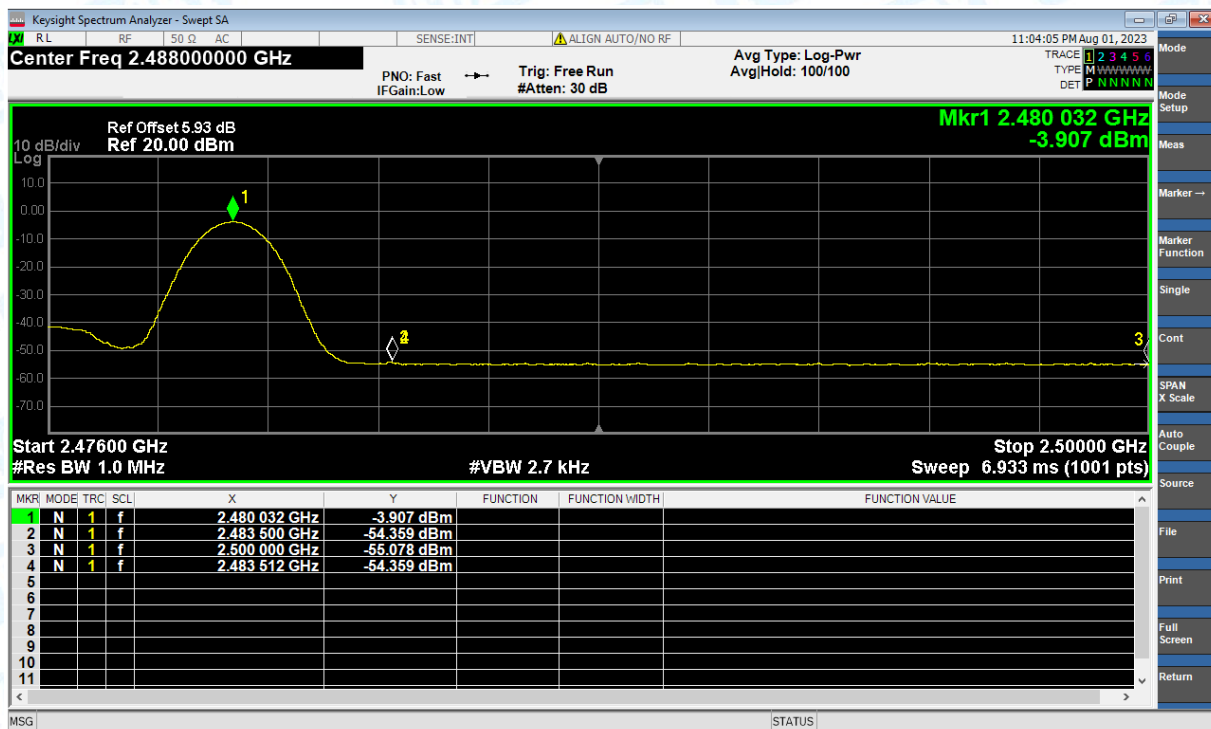
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



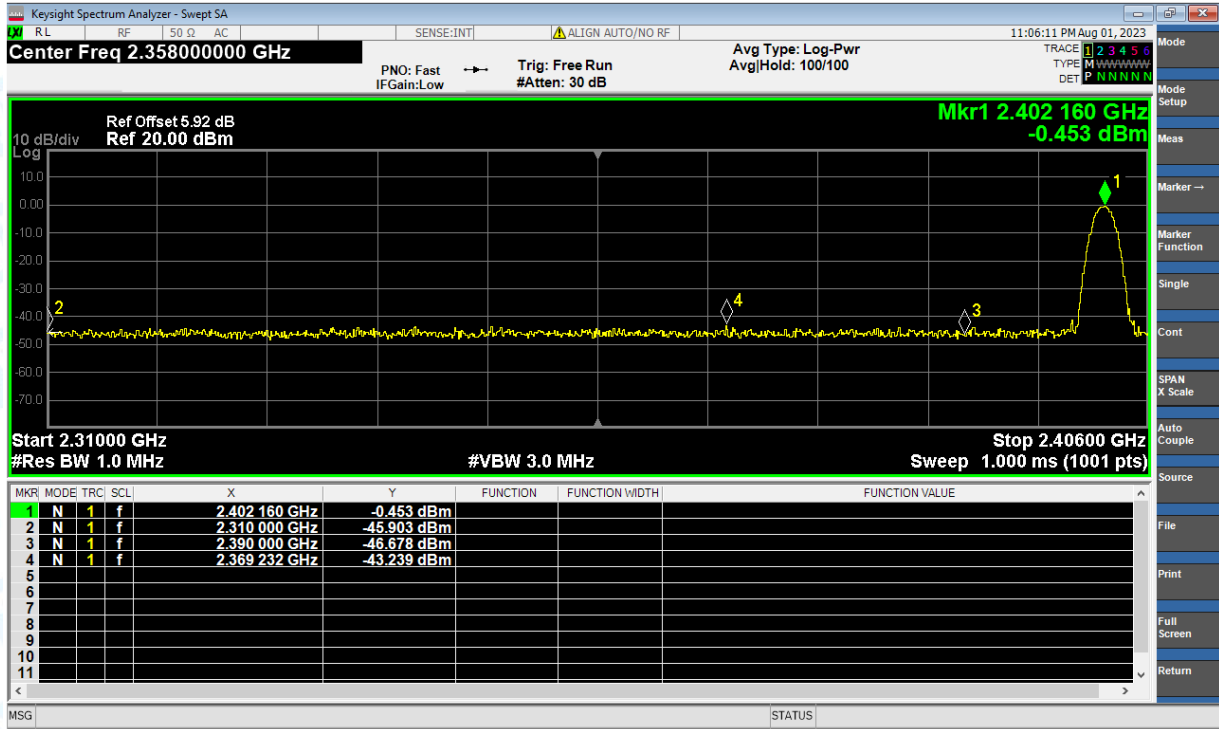
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



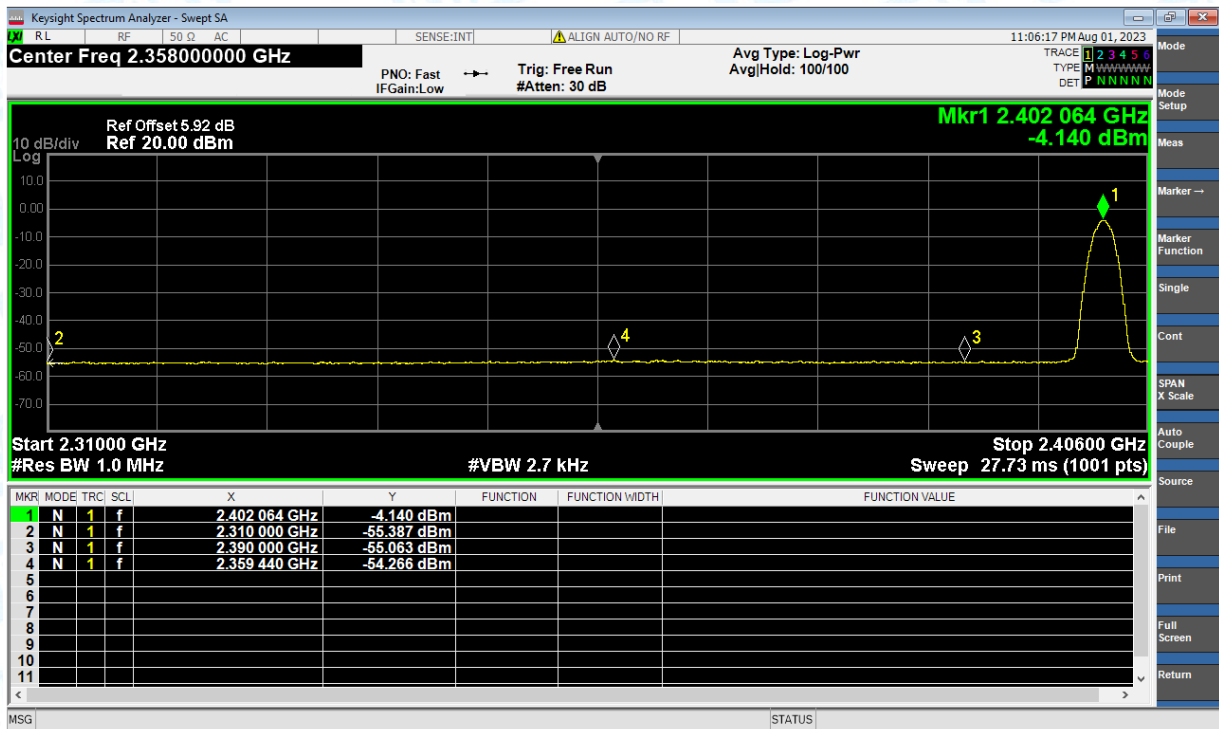
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



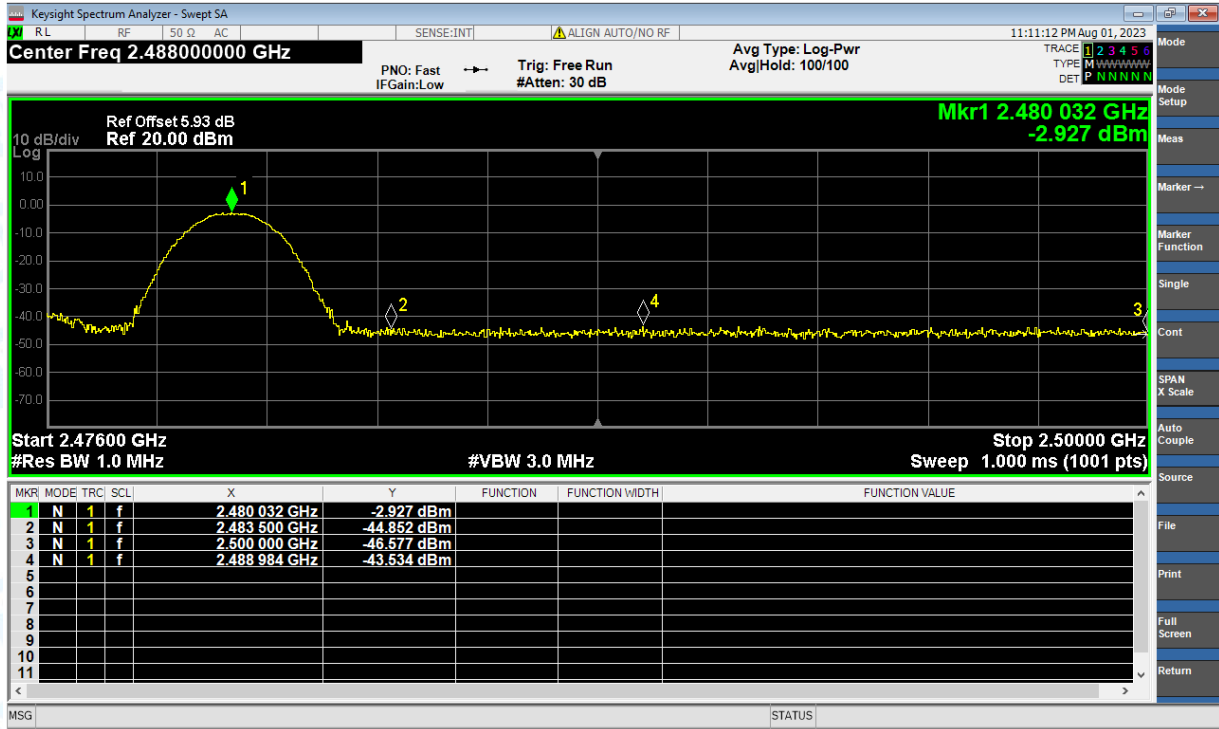
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



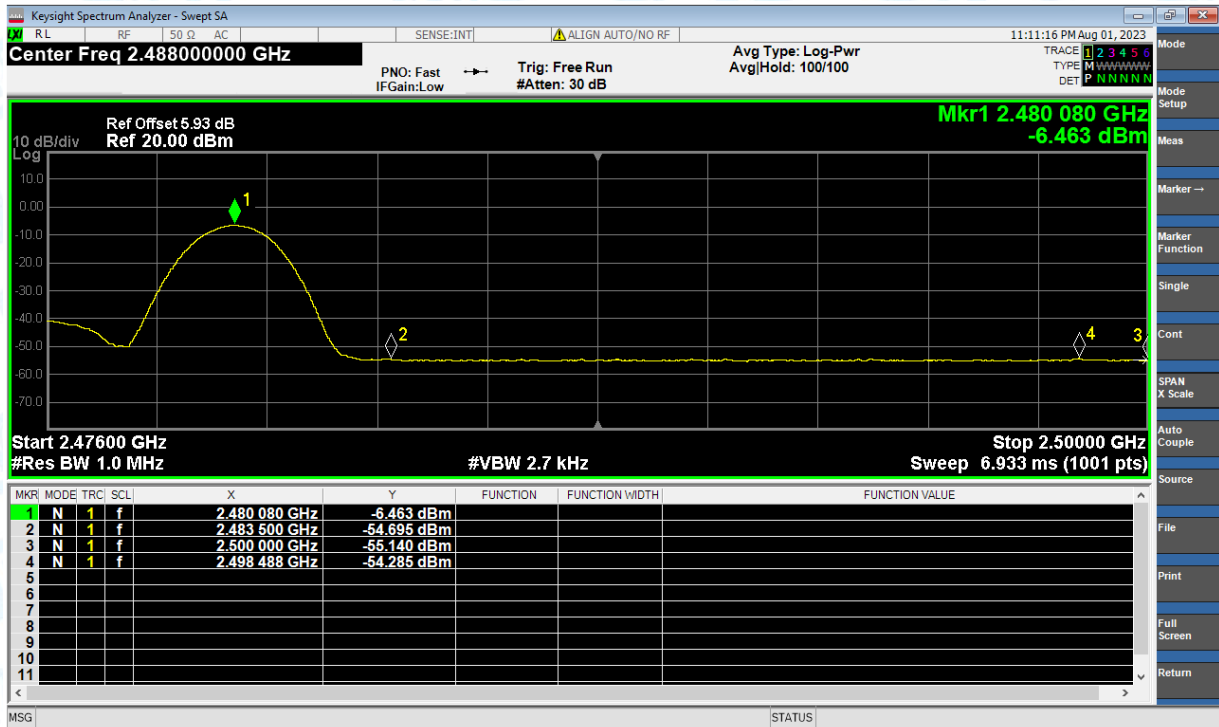
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



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



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



9. Carrier Frequencies Separation

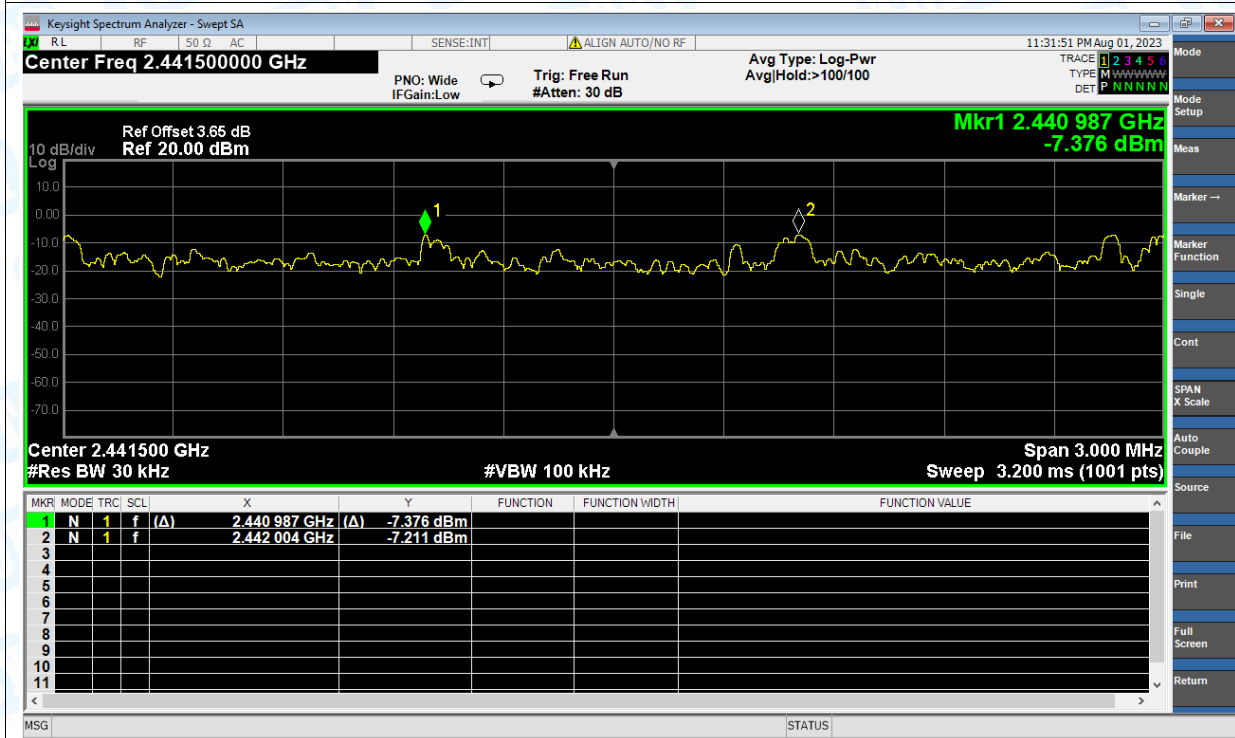
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.849	2441.854	1.005	0.587	Pass
NVNT	2-DH1	Ant1	2440.987	2442.004	1.017	0.813	Pass

Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1

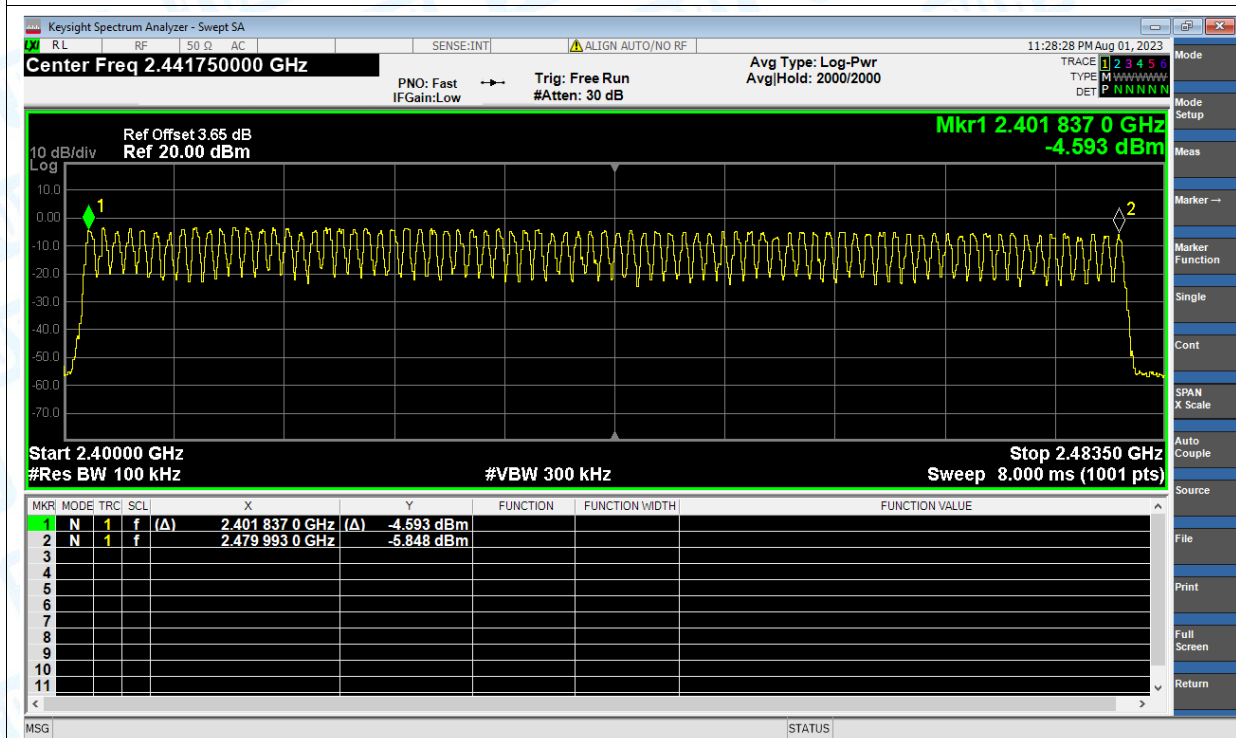


10. Number of Hopping Channel

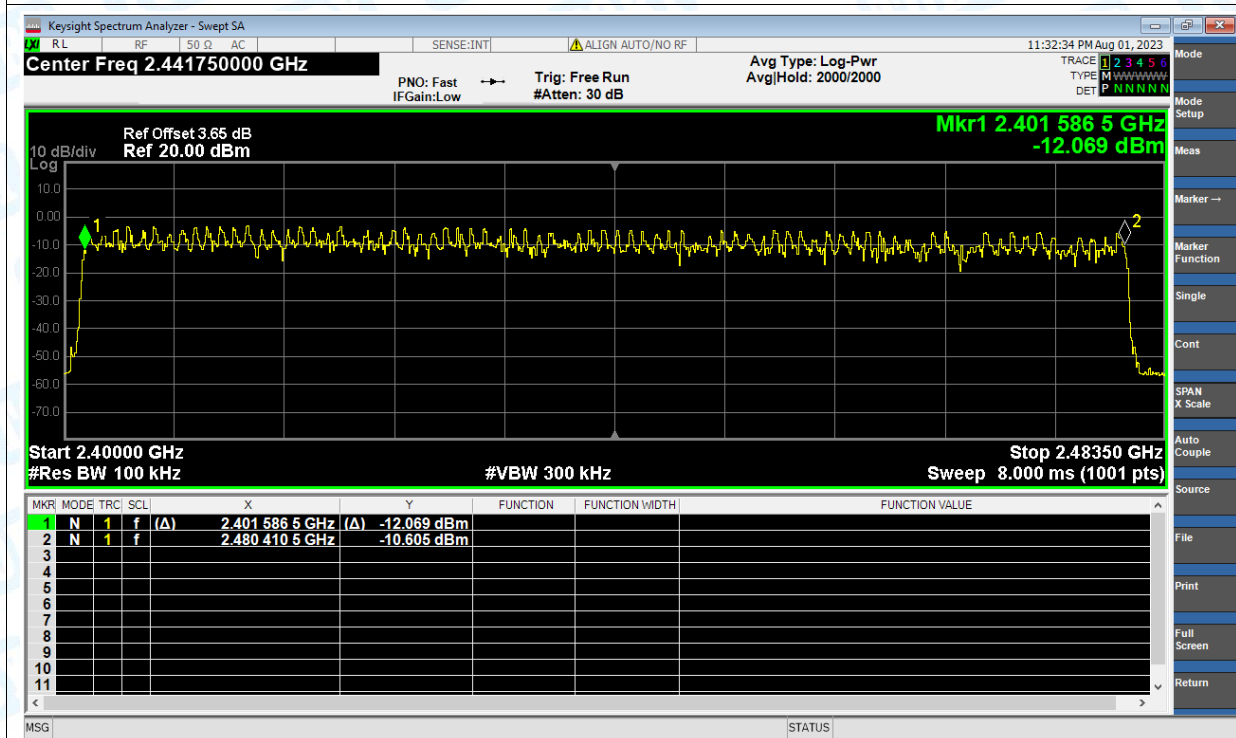
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1

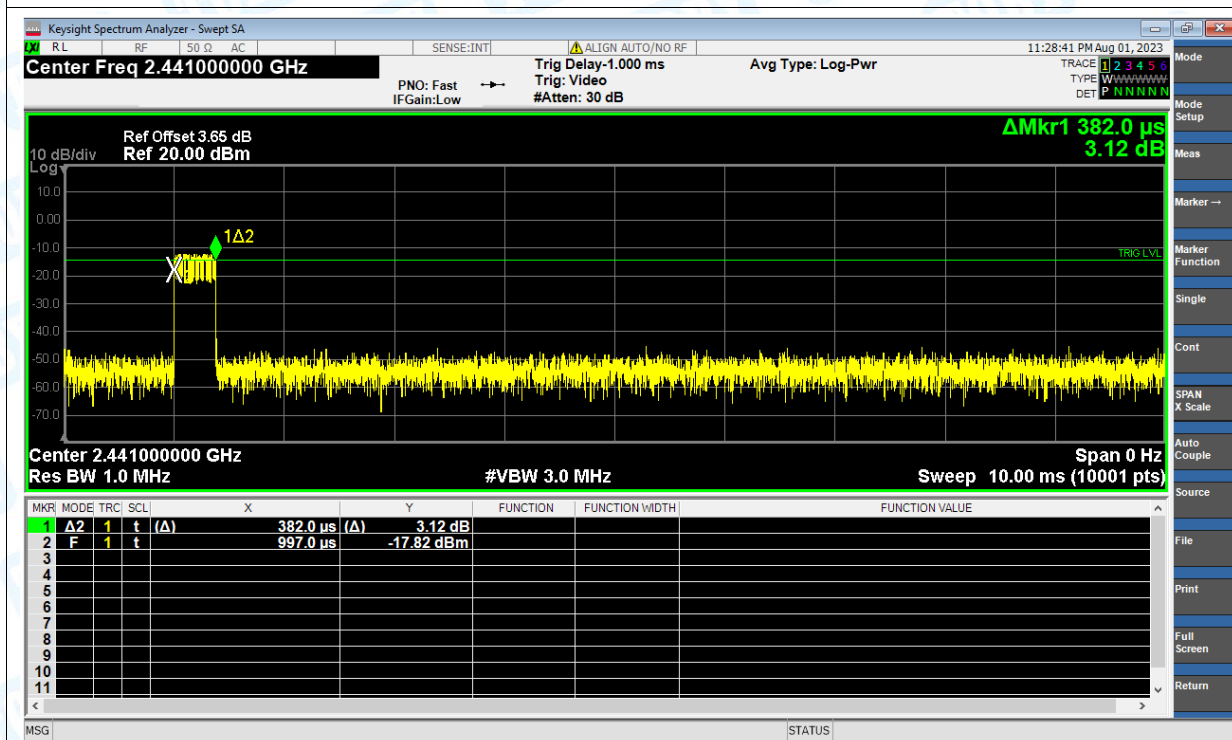


11. Dwell Time

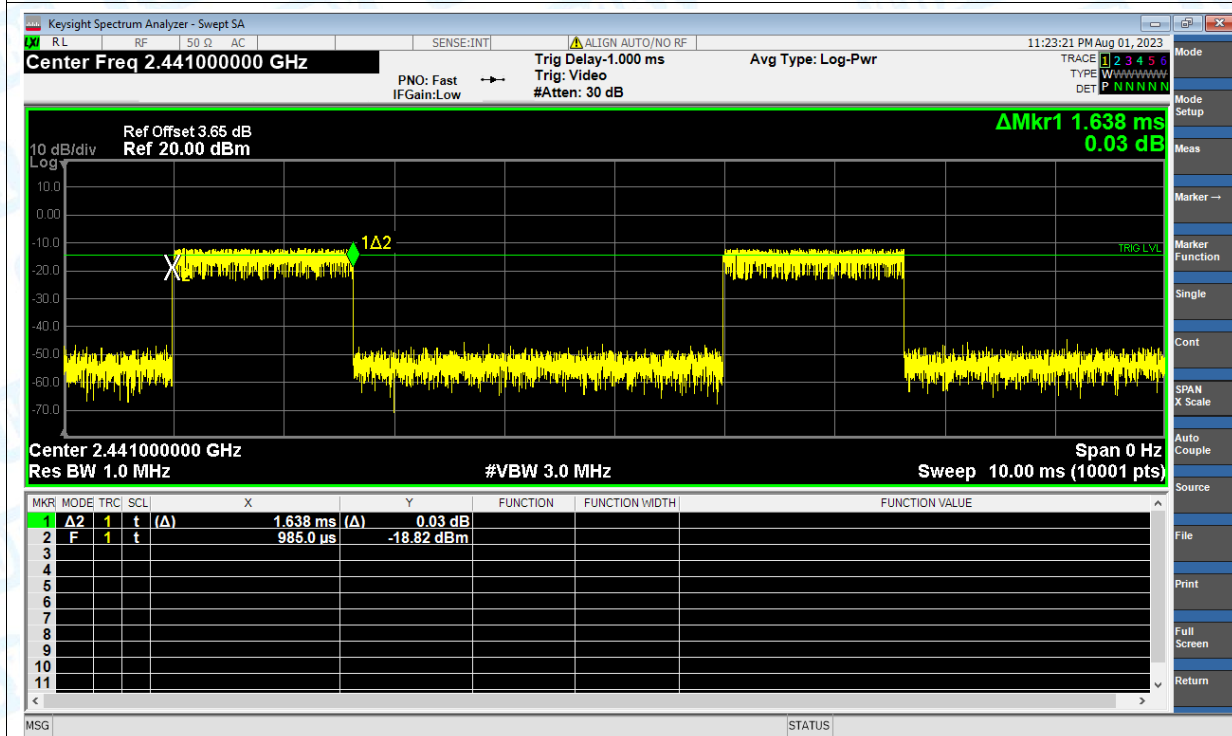
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.382	122.24	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.638	262.08	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.886	307.84	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.391	125.12	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	308.373	31600	400	Pass

Test Graphs

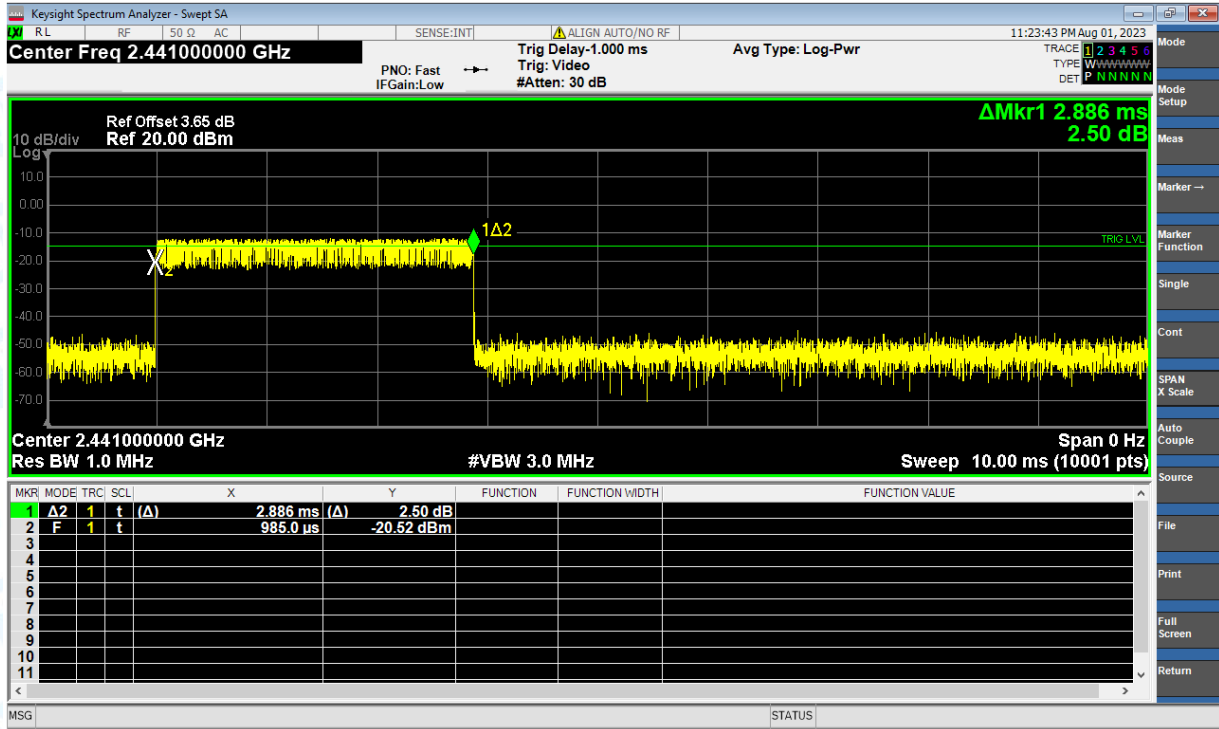
Dwell NVNT 1-DH1 2441MHz Ant1



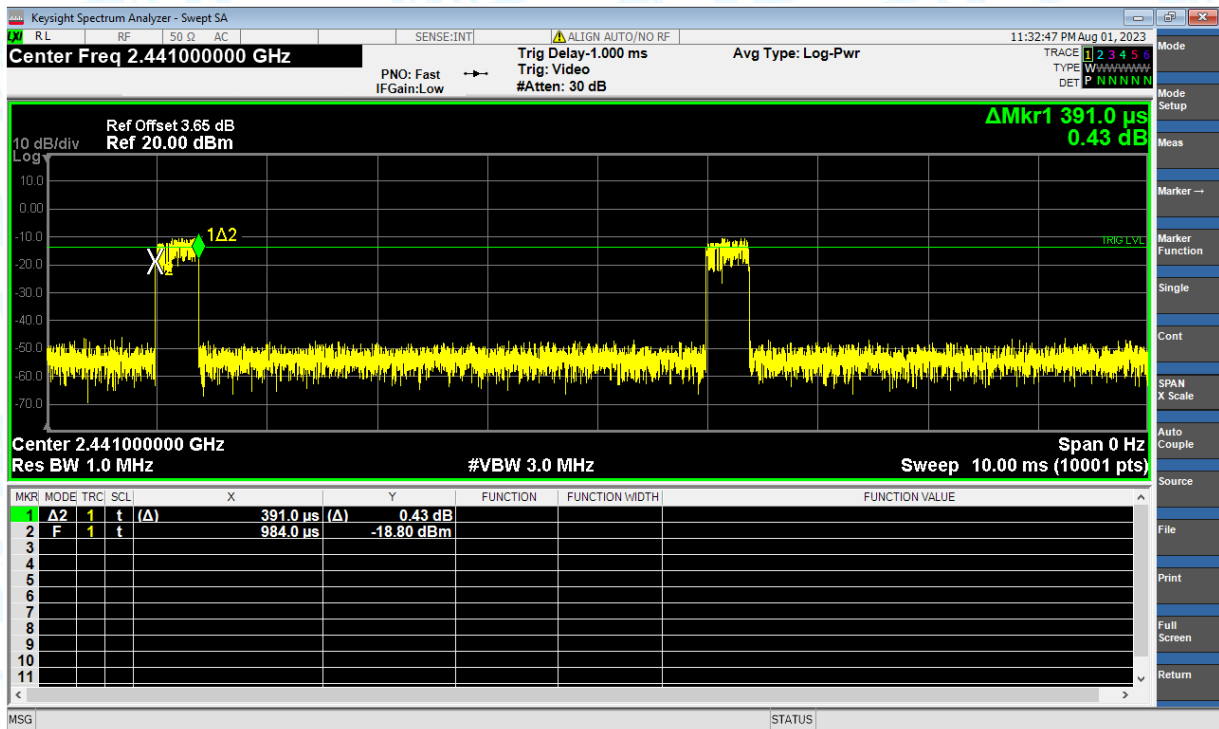
Dwell NVNT 1-DH3 2441MHz Ant1



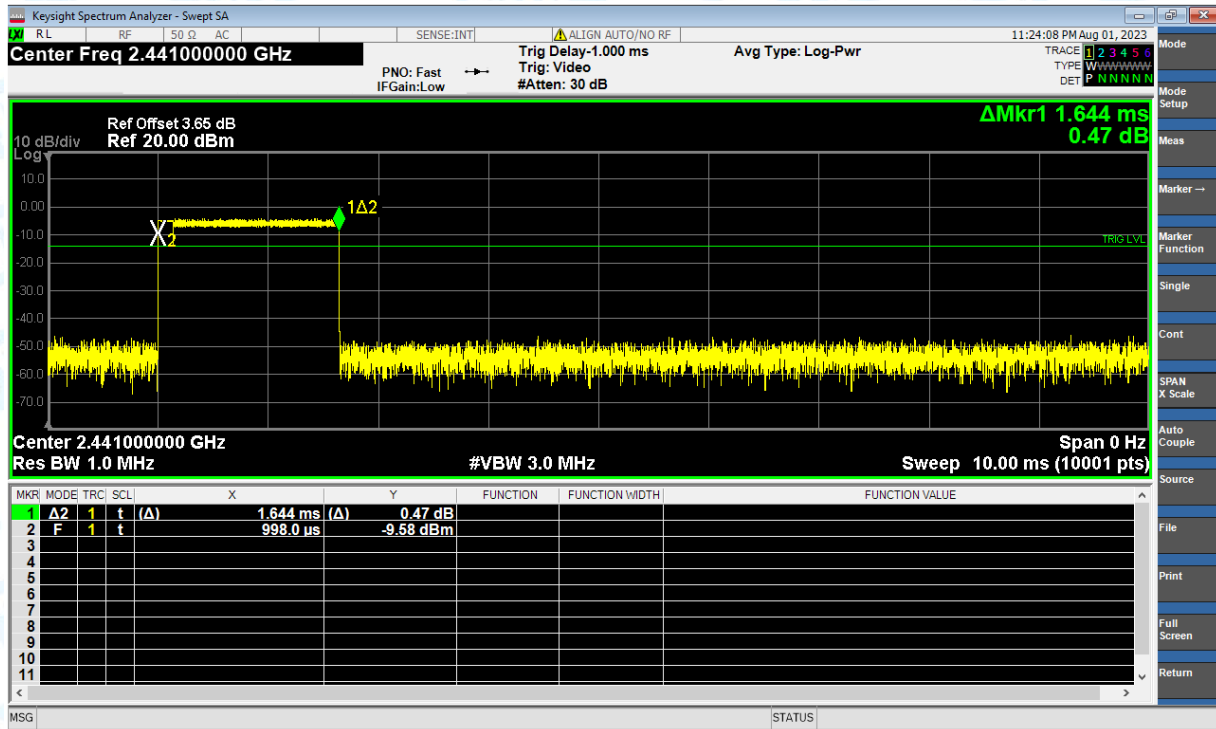
Dwell NVNT 1-DH5 2441MHz Ant1



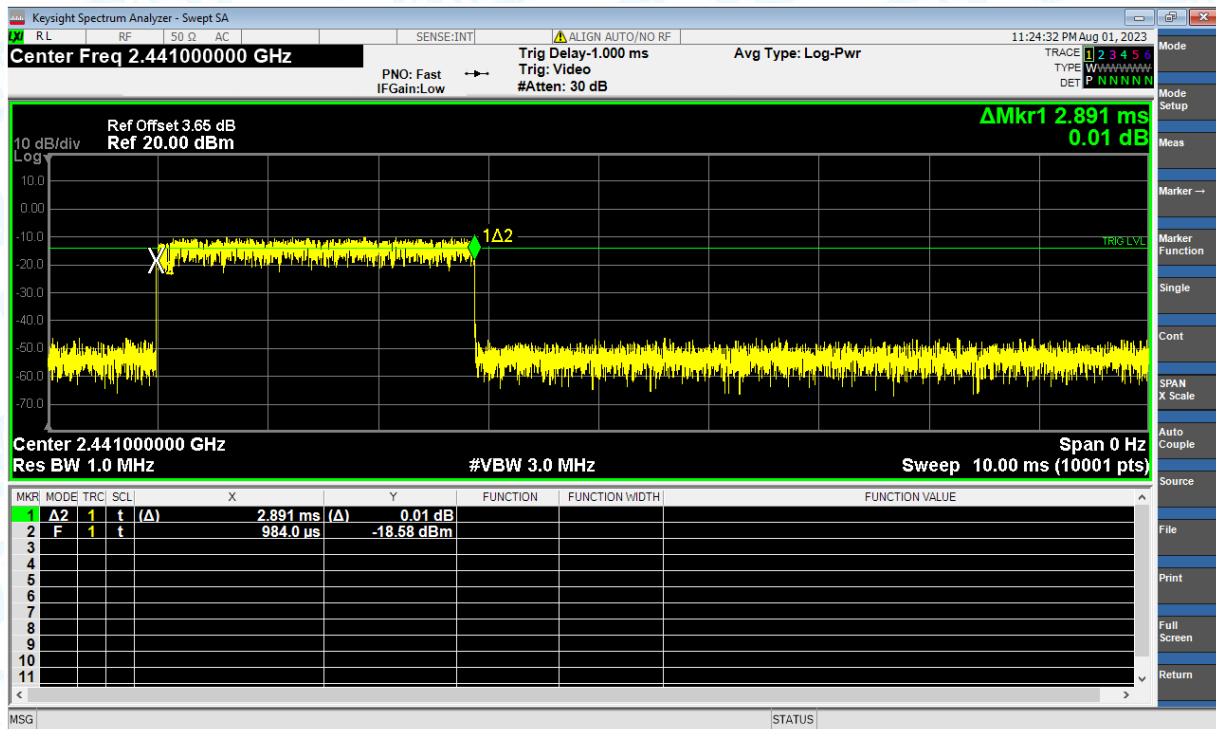
Dwell NVNT 2-DH1 2441MHz Ant1



Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



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