

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Intelligent separated call wristband
Test Model:	D12
Sample ID:	HC-C-202507-0220-01-2#
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	49%
Test Voltage:	DC 5V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202507-0220-131 The report only show the worst case data.	

Contents

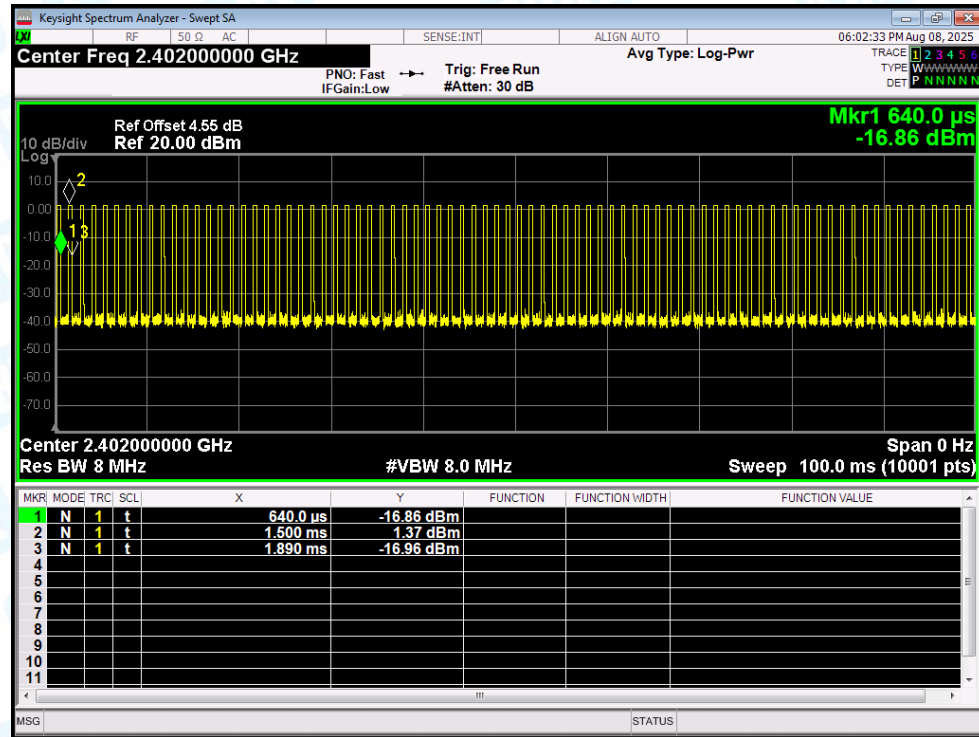
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1. Duty Cycle

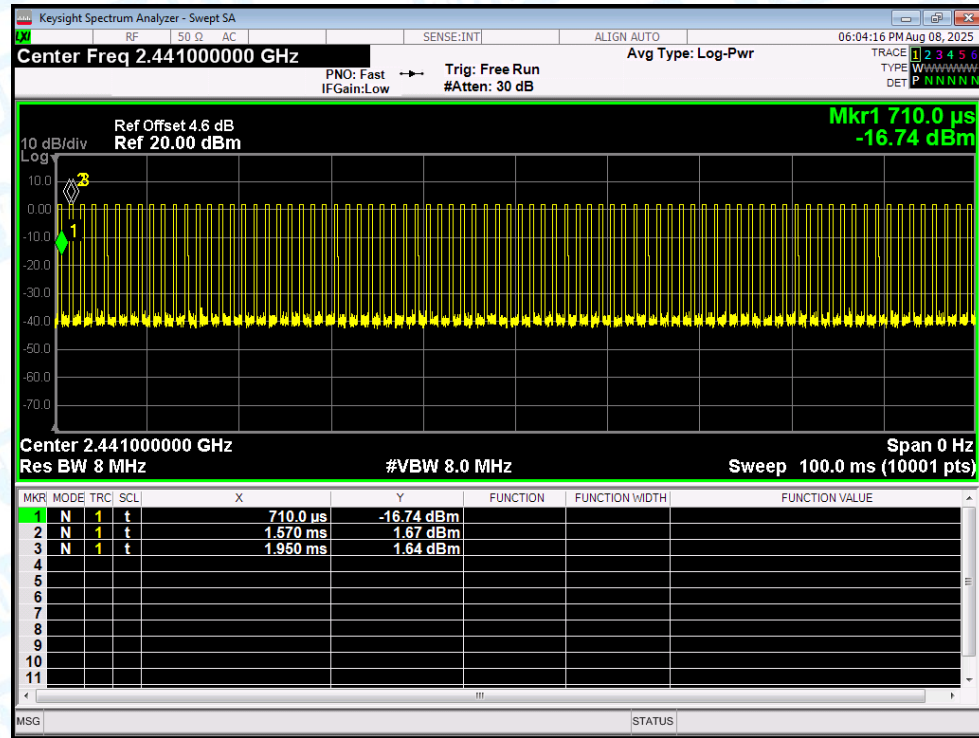
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	30.65	5.14	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	32	4.95	2.5
NVNT	3-DH1	2402	Ant1	32	4.95	2.5
NVNT	3-DH1	2441	Ant1	32	4.95	2.5
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

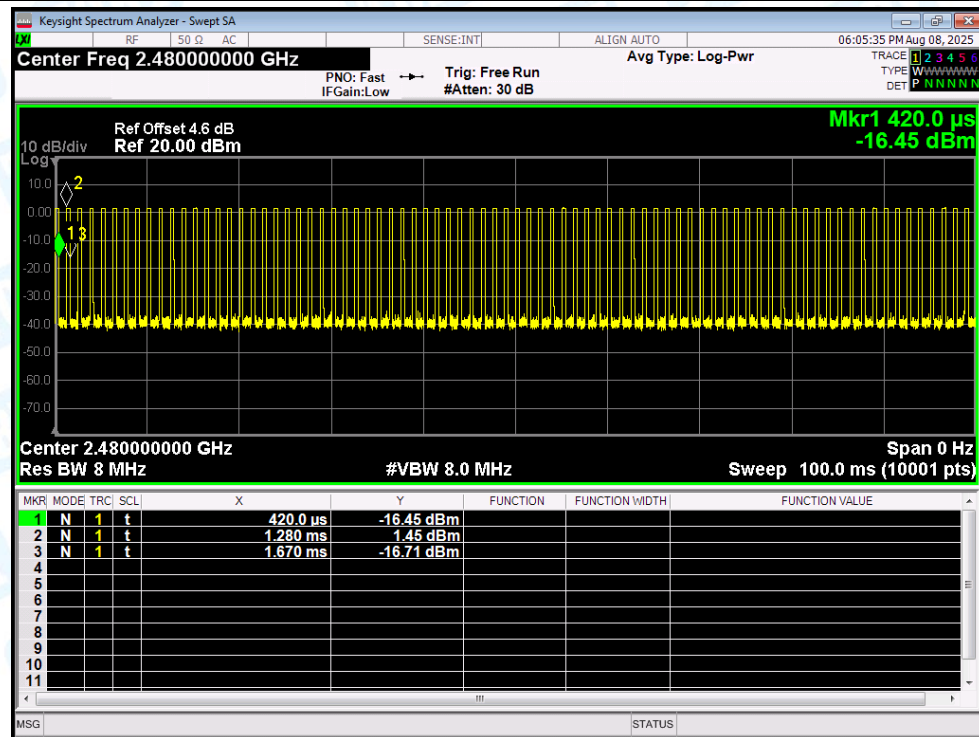
Duty Cycle NVNT 1-DH1 2402MHz Ant1



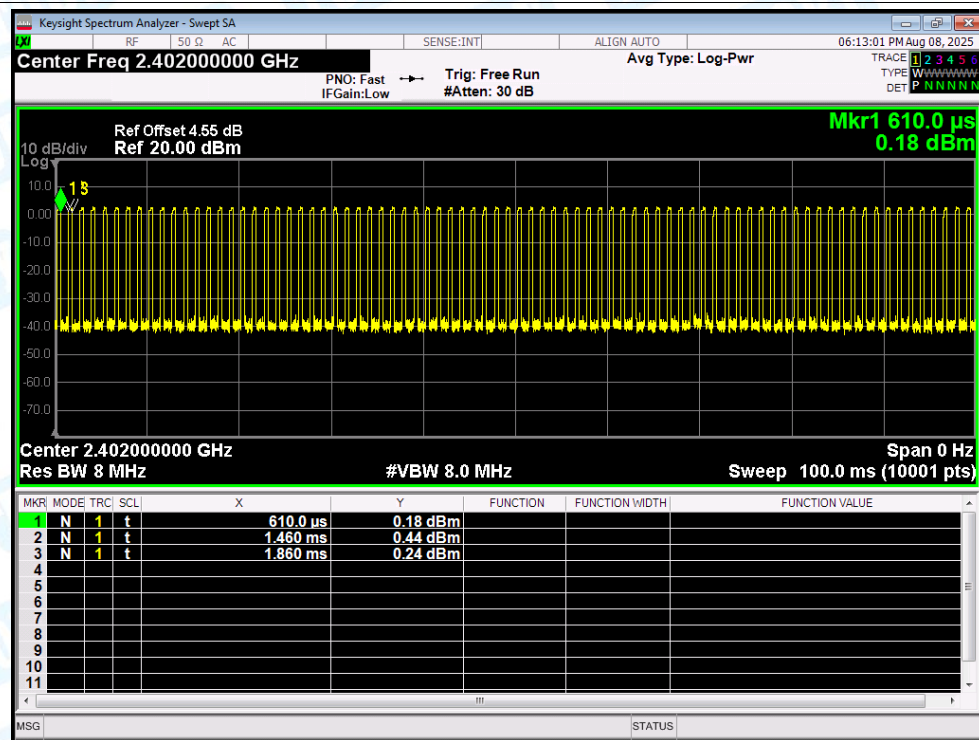
Duty Cycle NVNT 1-DH1 2441MHz Ant1



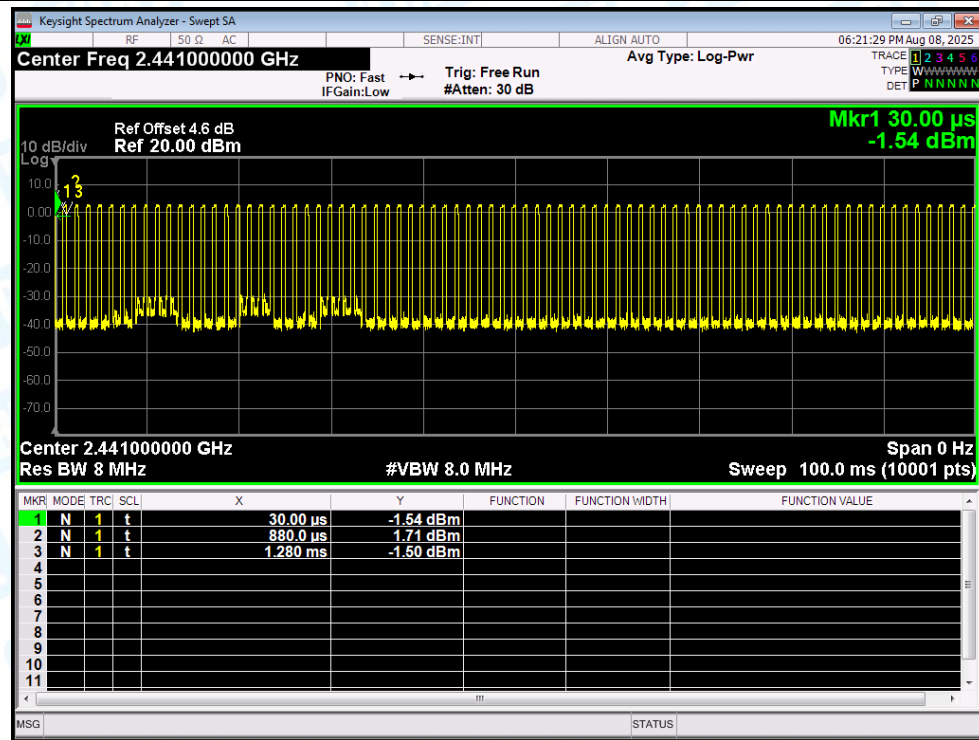
Duty Cycle NVNT 1-DH1 2480MHz Ant1



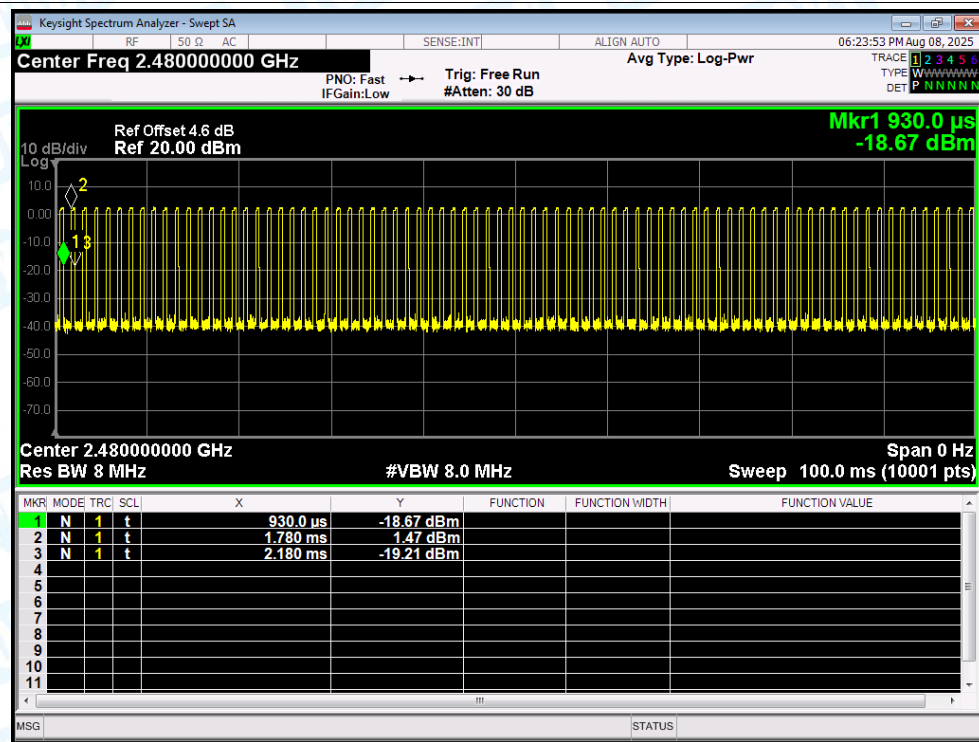
Duty Cycle NVNT 2-DH1 2402MHz Ant1



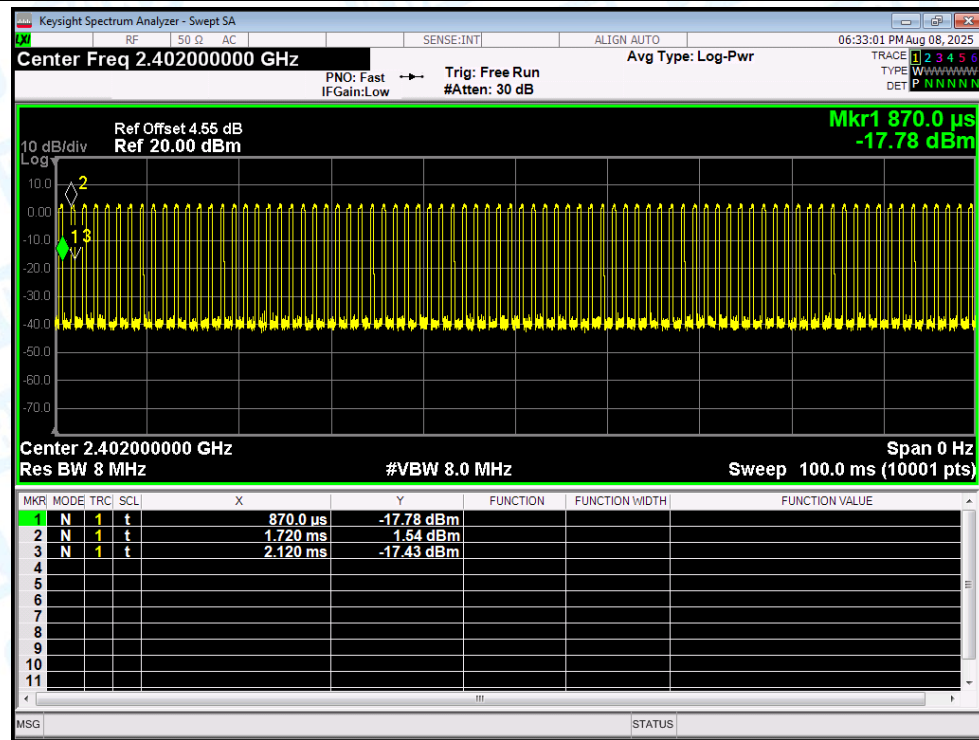
Duty Cycle NVNT 2-DH1 2441MHz Ant1



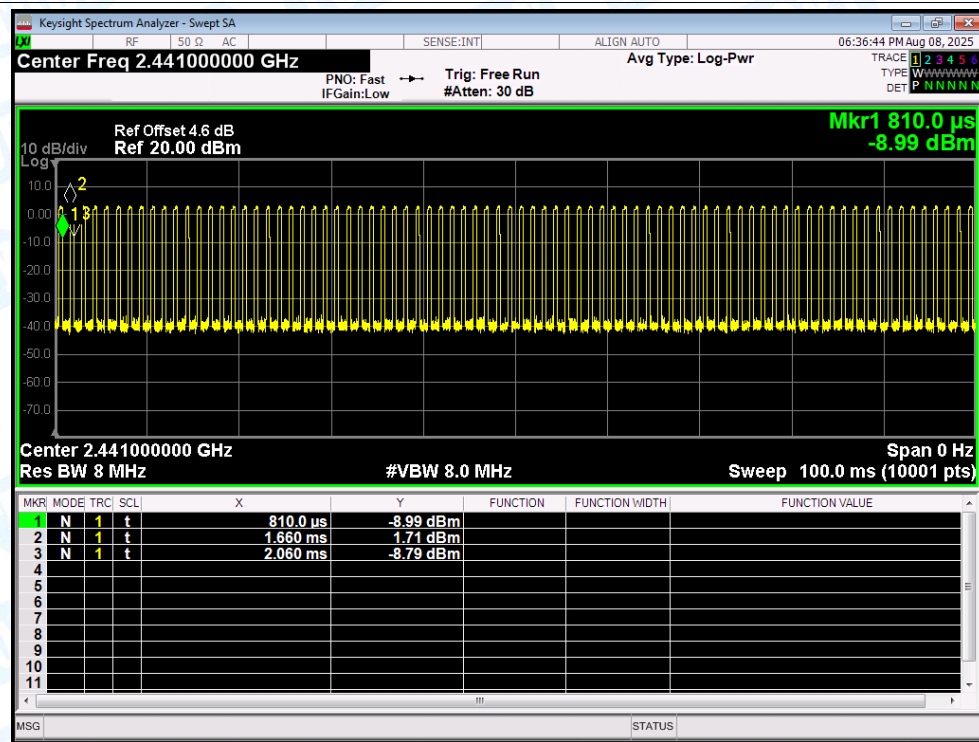
Duty Cycle NVNT 2-DH1 2480MHz Ant1

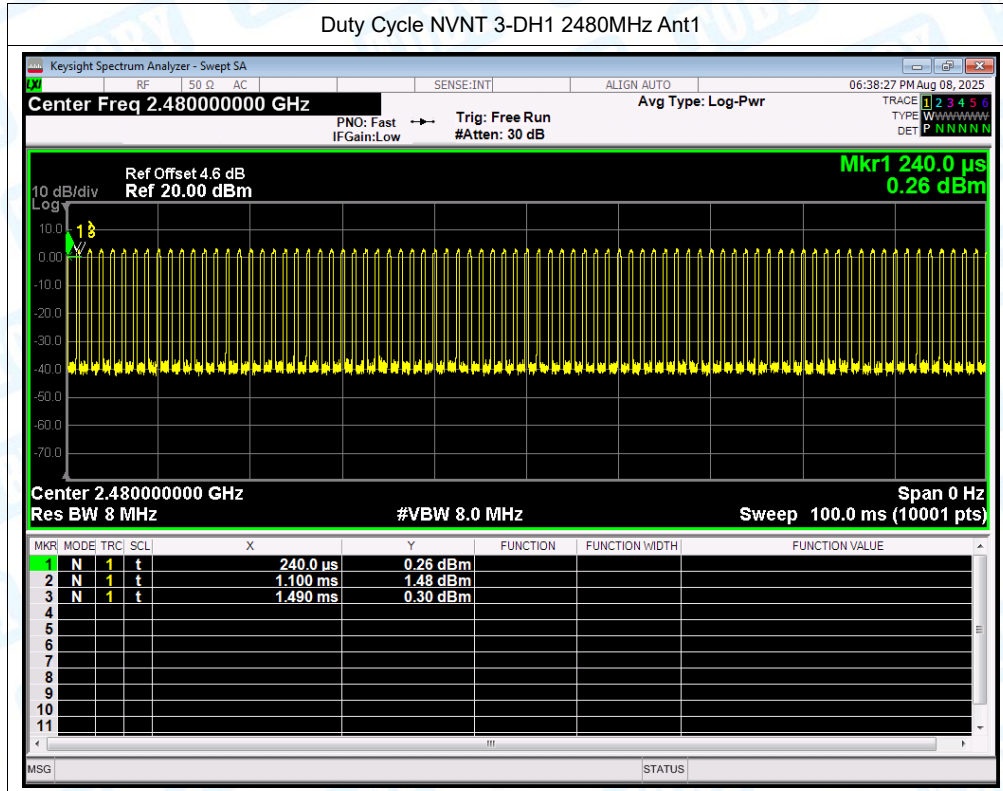


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



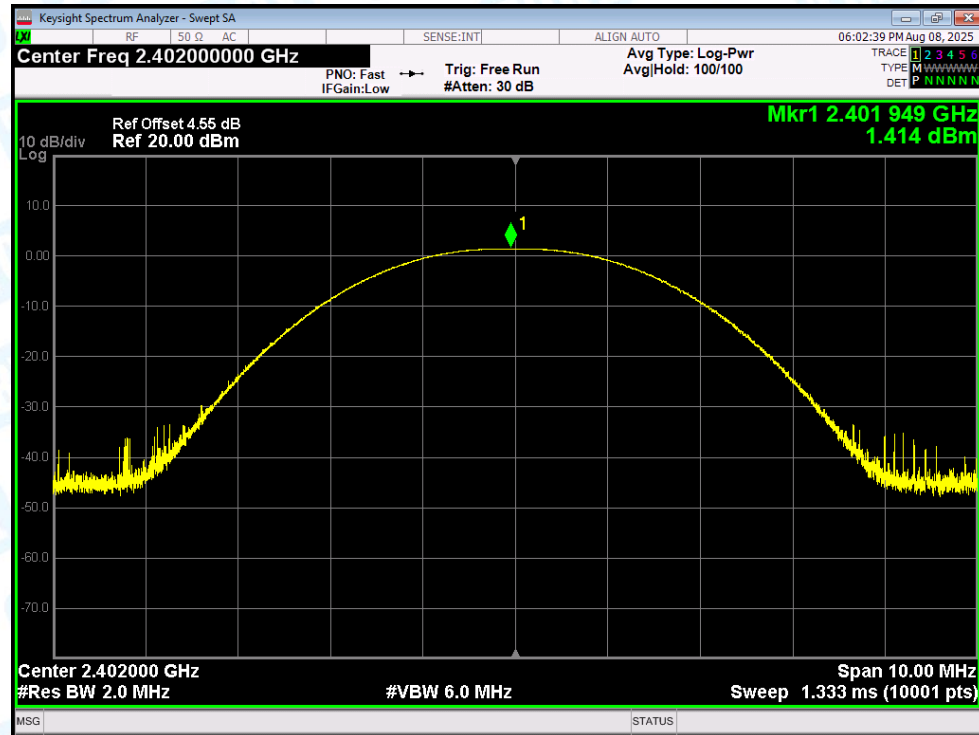


2. Maximum Conducted Output Power

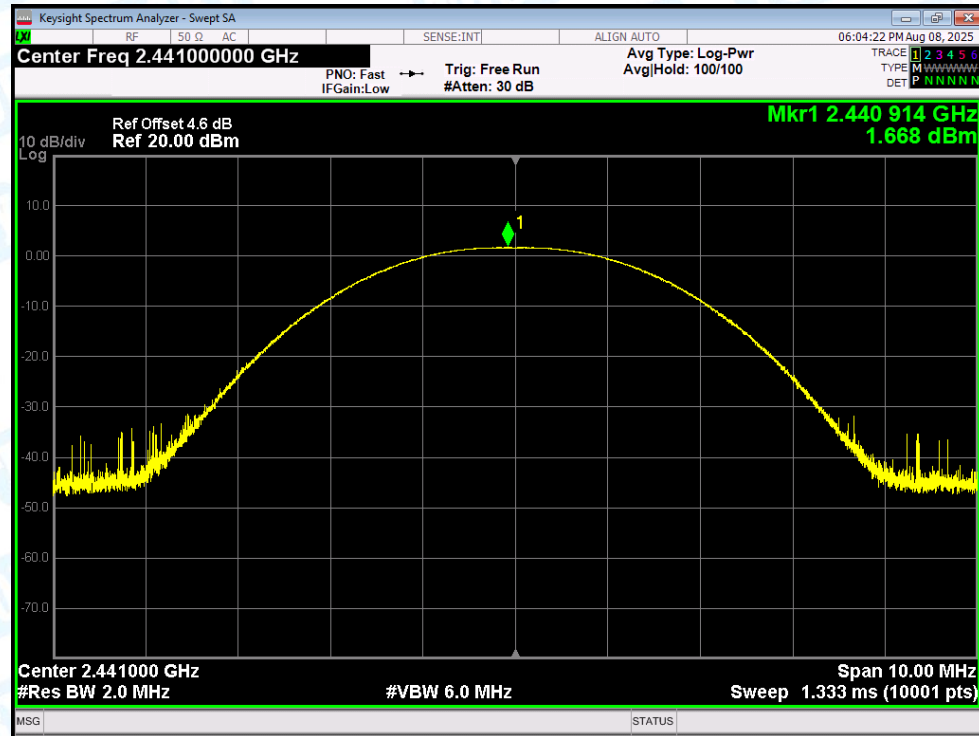
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.414	21	Pass
NVNT	1-DH1	2441	Ant1	1.668	21	Pass
NVNT	1-DH1	2480	Ant1	1.47	21	Pass
NVNT	2-DH1	2402	Ant1	2.324	21	Pass
NVNT	2-DH1	2441	Ant1	2.511	21	Pass
NVNT	2-DH1	2480	Ant1	2.305	21	Pass
NVNT	3-DH1	2402	Ant1	2.886	21	Pass
NVNT	3-DH1	2441	Ant1	3.107	21	Pass
NVNT	3-DH1	2480	Ant1	2.878	21	Pass

Test Graphs

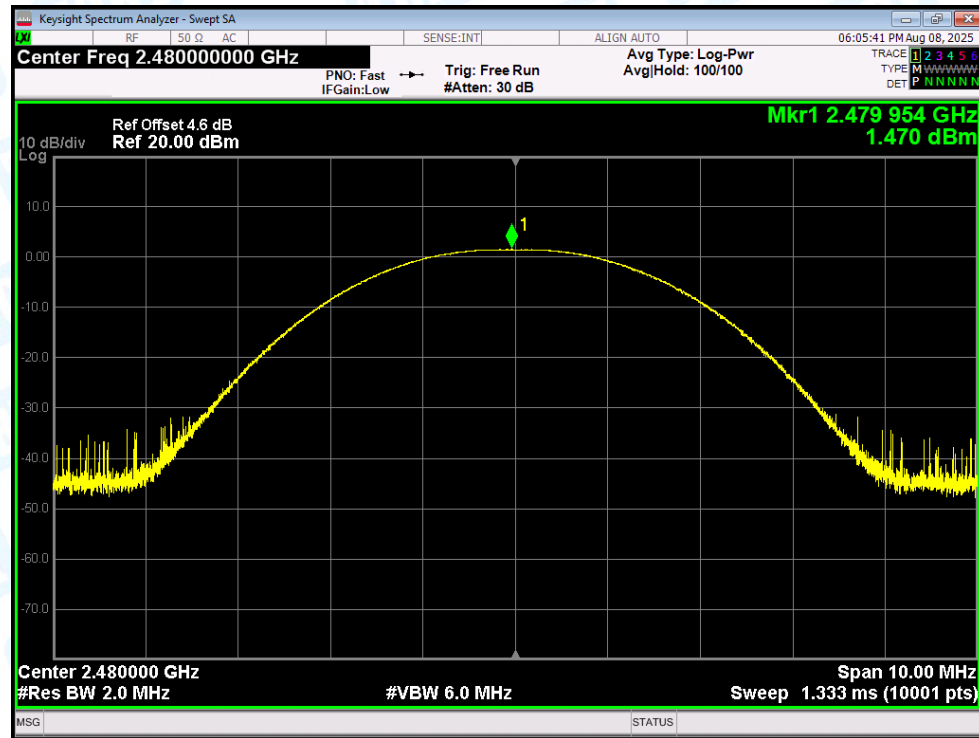
Power NVNT 1-DH1 2402MHz Ant1



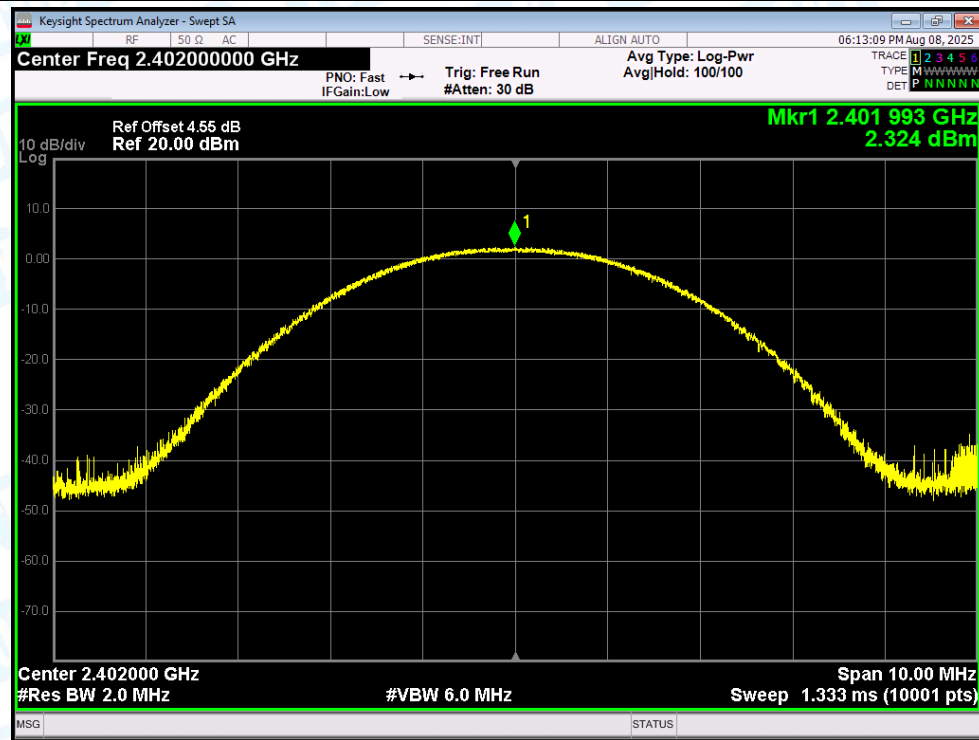
Power NVNT 1-DH1 2441MHz Ant1



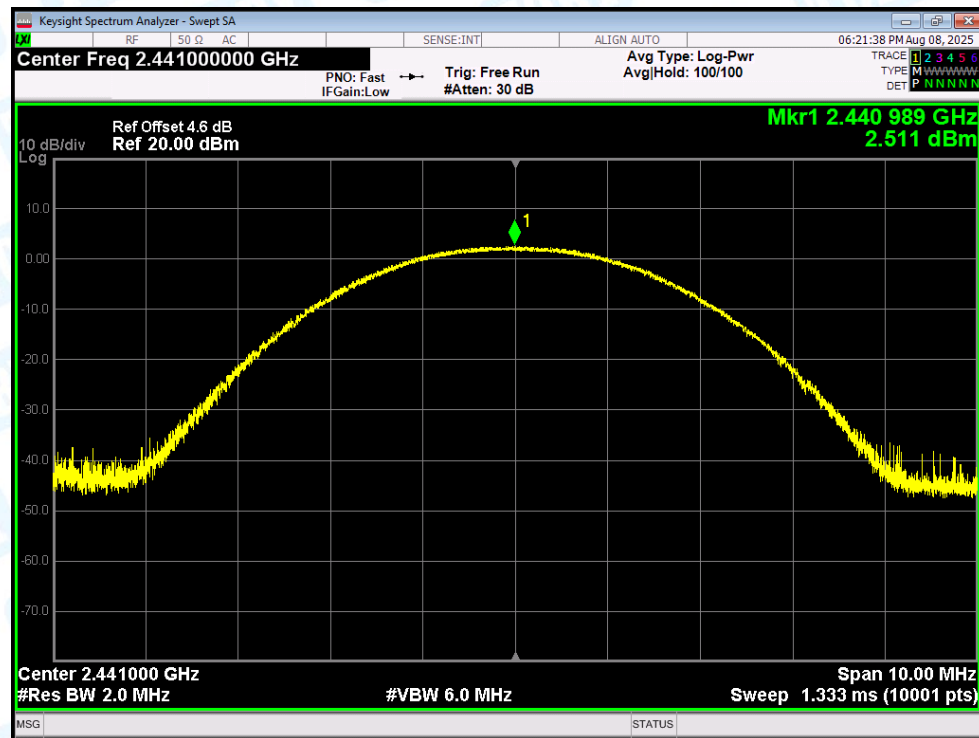
Power NVNT 1-DH1 2480MHz Ant1



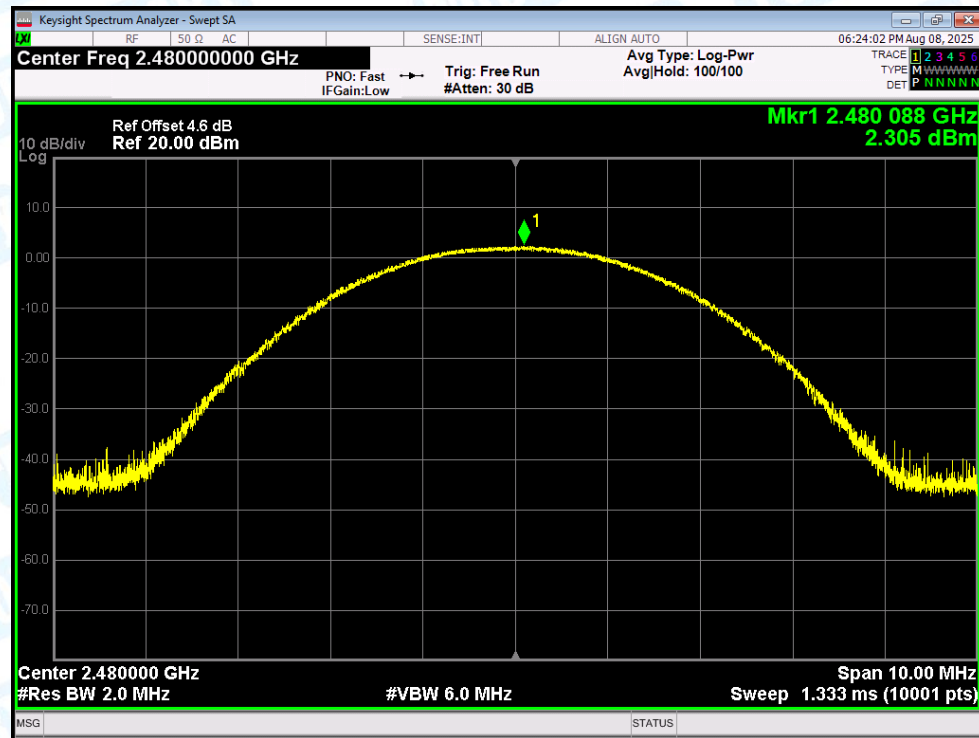
Power NVNT 2-DH1 2402MHz Ant1



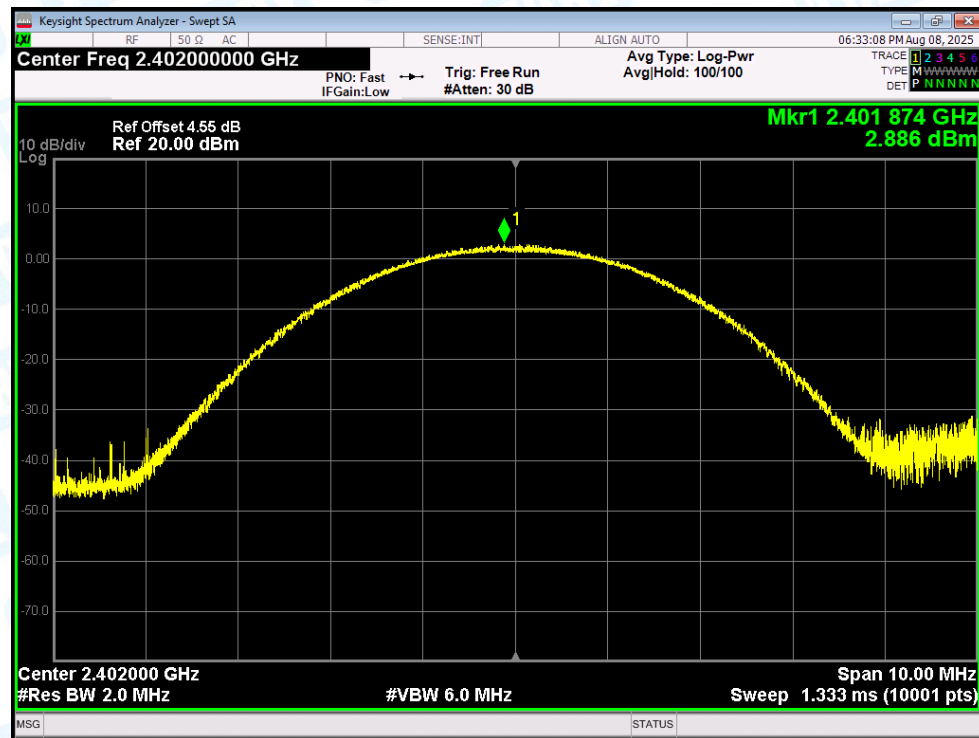
Power NVNT 2-DH1 2441MHz Ant1



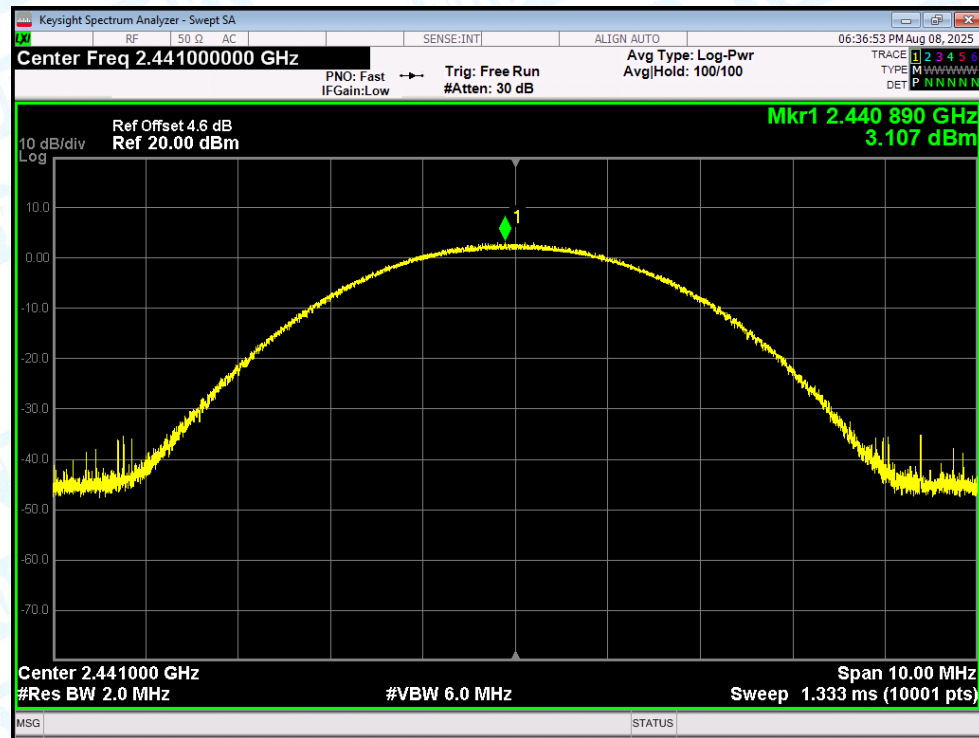
Power NVNT 2-DH1 2480MHz Ant1

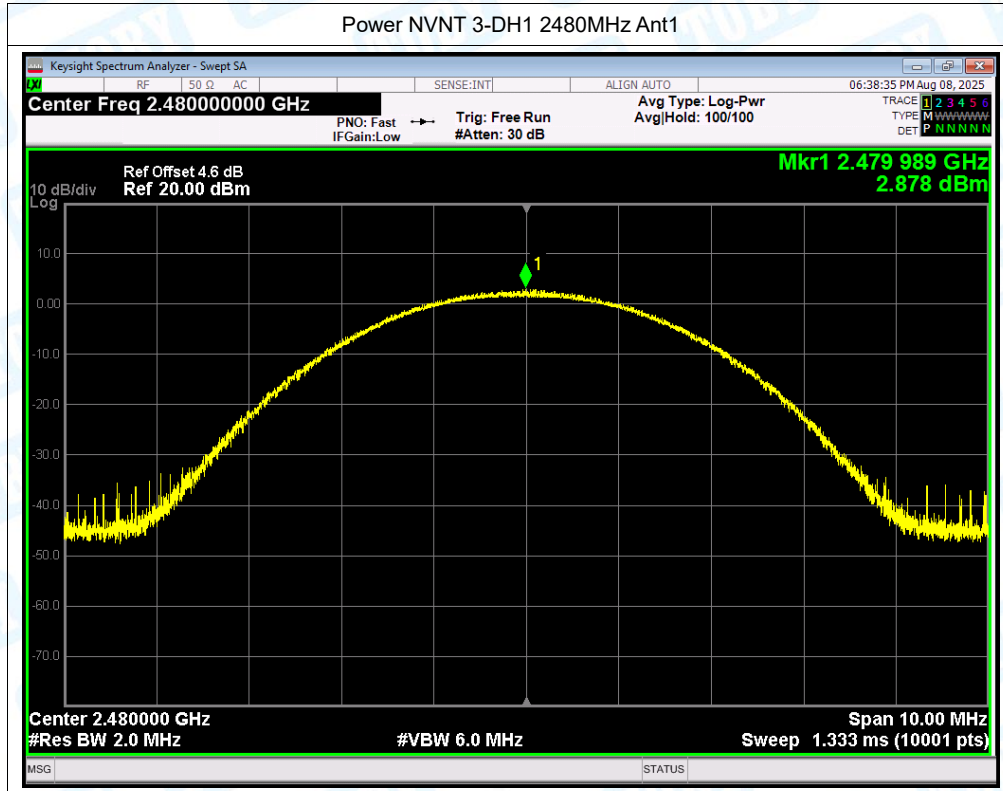


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



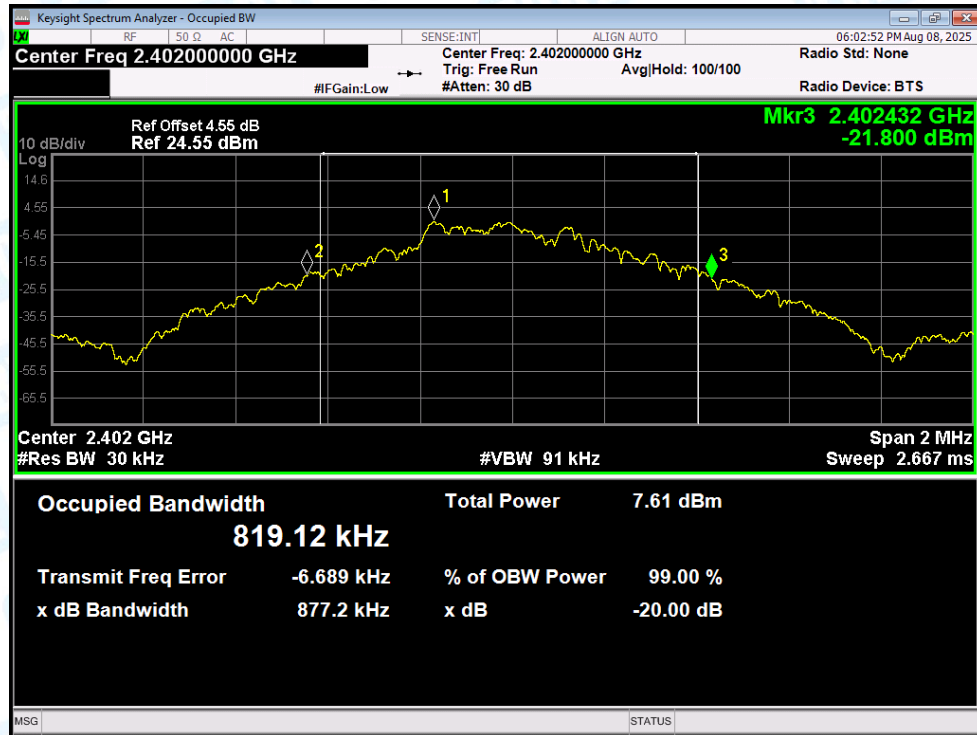


3. -20dB Bandwidth

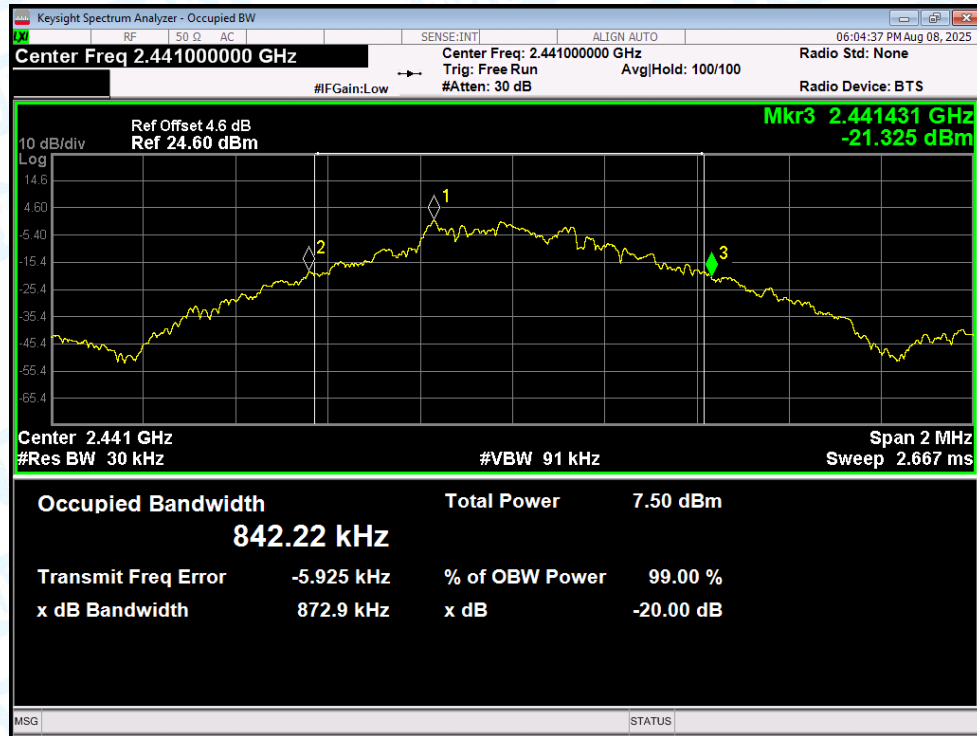
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.88	Pass
NVNT	1-DH1	2441	Ant1	0.87	Pass
NVNT	1-DH1	2480	Ant1	0.81	Pass
NVNT	2-DH1	2402	Ant1	1.24	Pass
NVNT	2-DH1	2441	Ant1	1.26	Pass
NVNT	2-DH1	2480	Ant1	1.24	Pass
NVNT	3-DH1	2402	Ant1	1.22	Pass
NVNT	3-DH1	2441	Ant1	1.2	Pass
NVNT	3-DH1	2480	Ant1	1.21	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



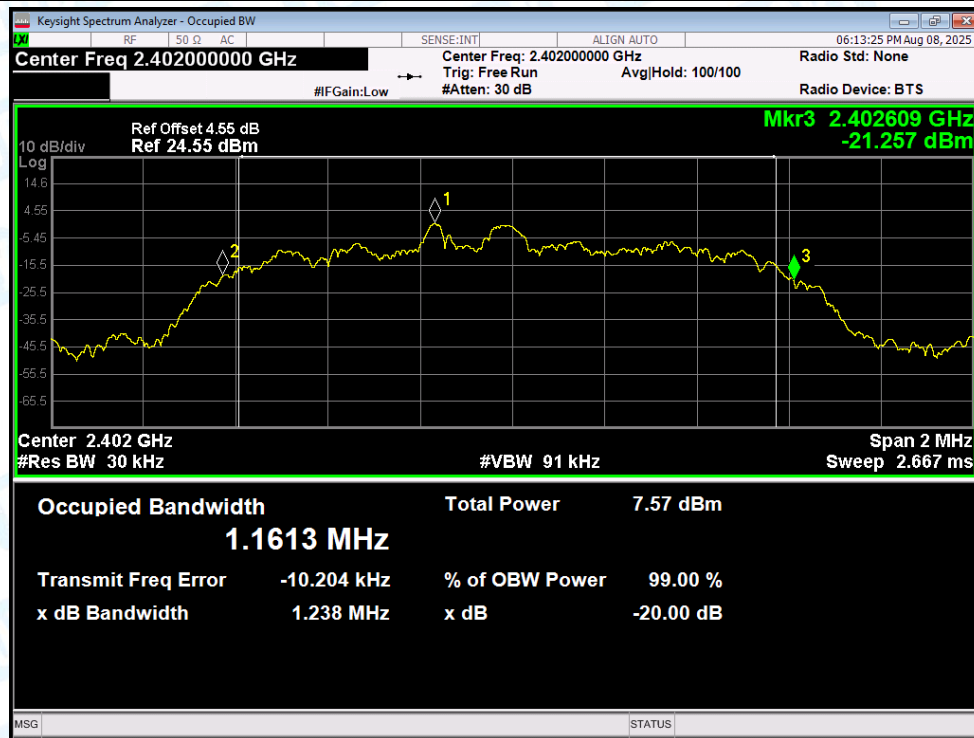
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



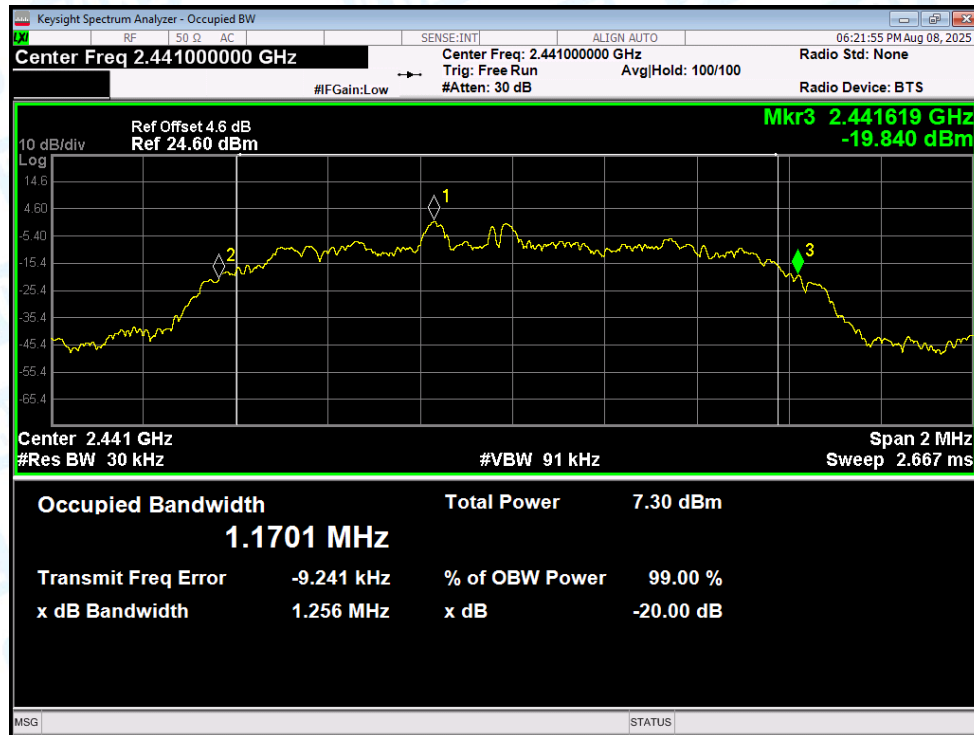
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



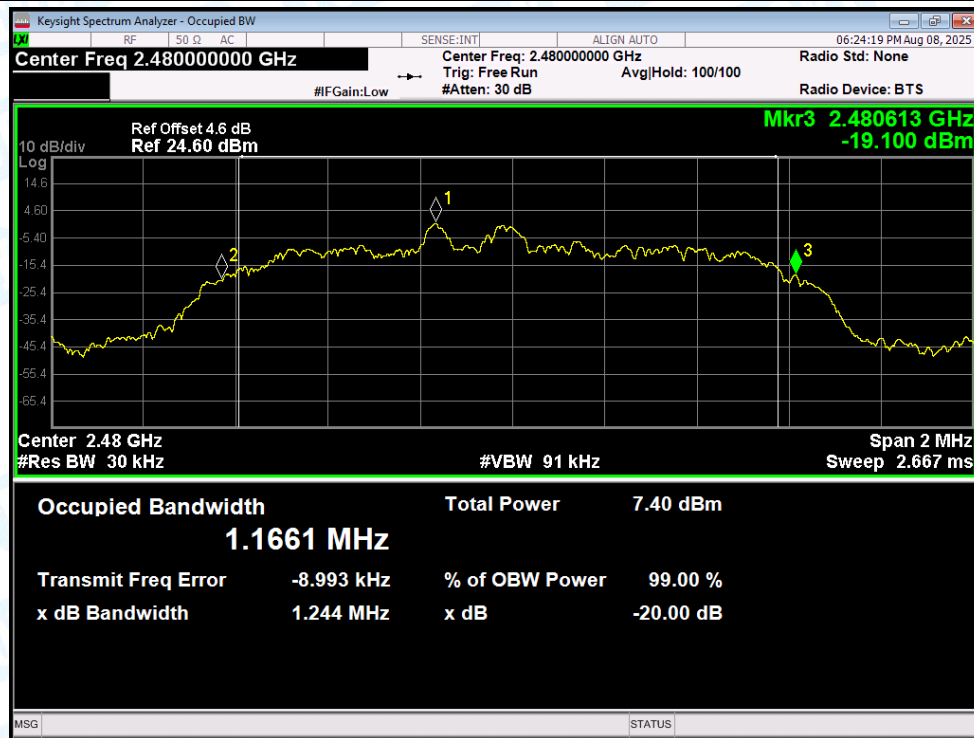
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



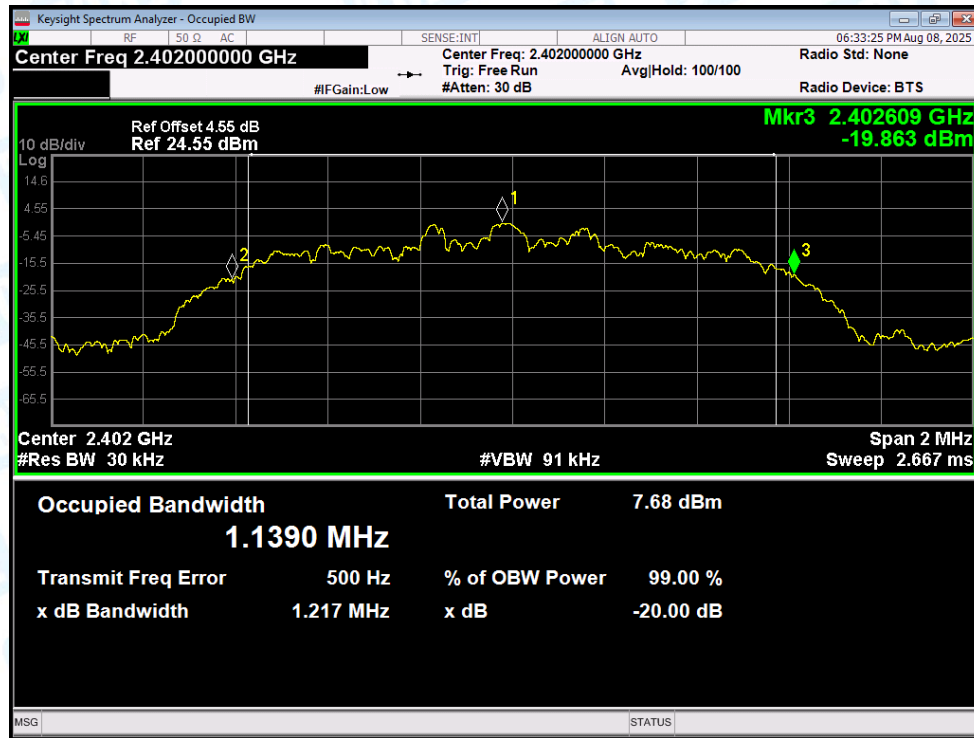
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



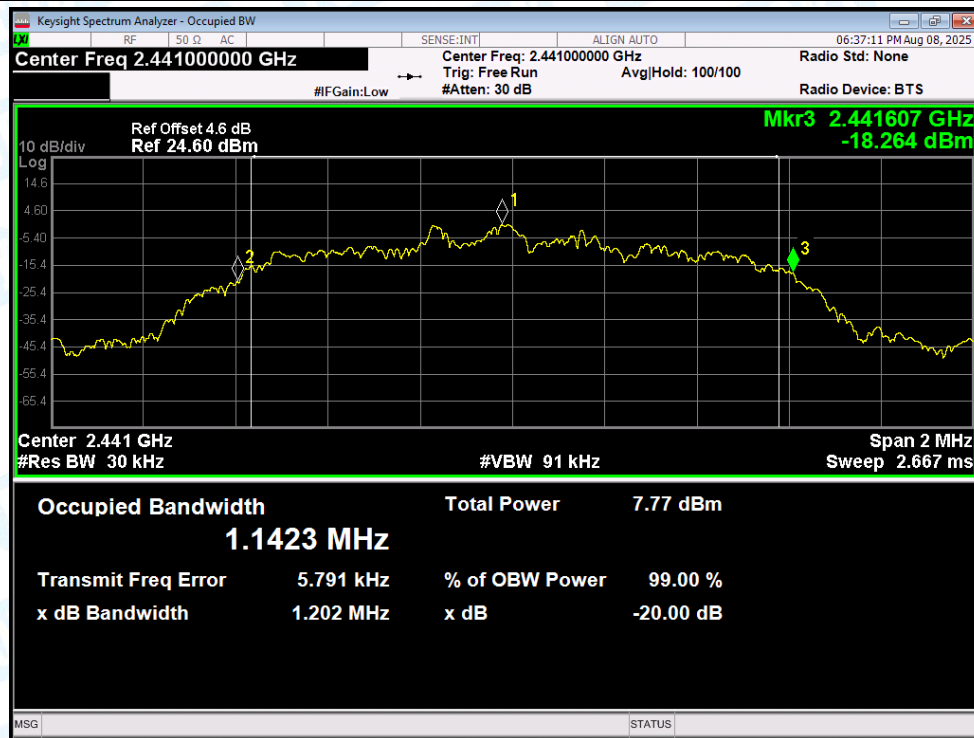
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

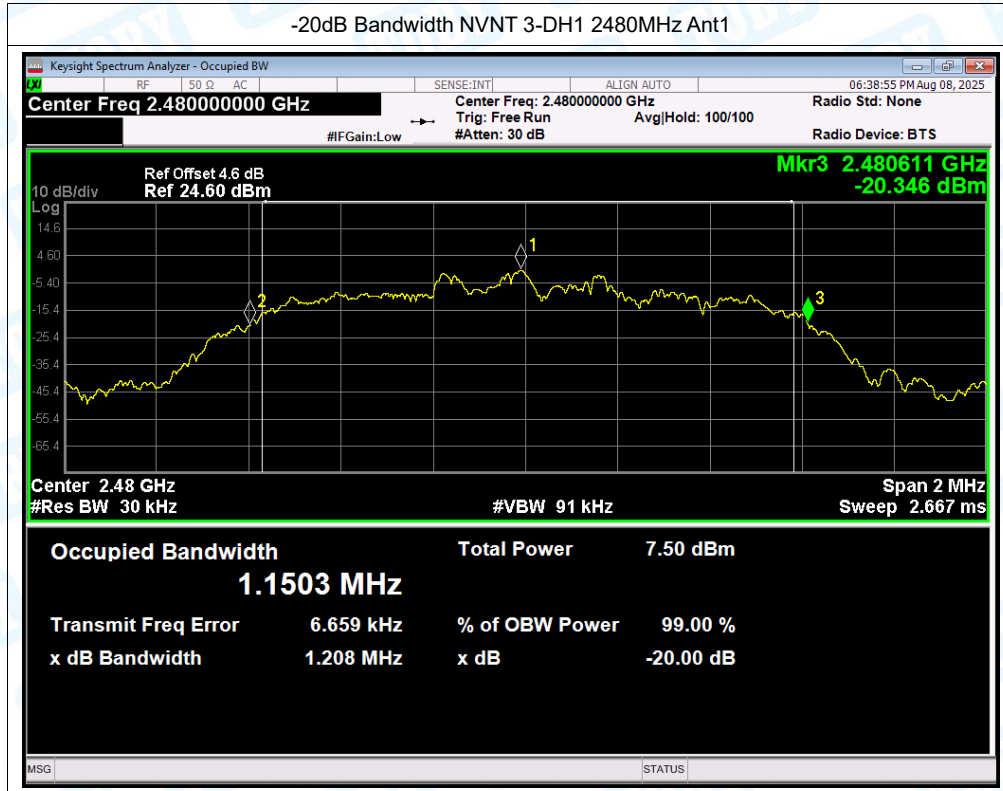


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



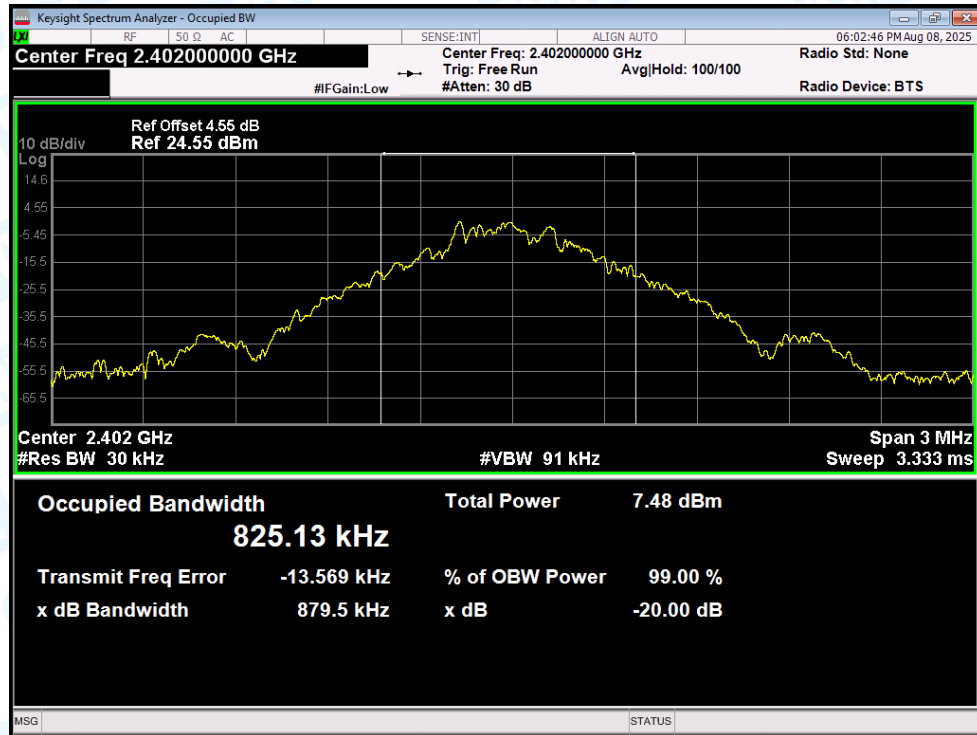


4. Occupied Channel Bandwidth

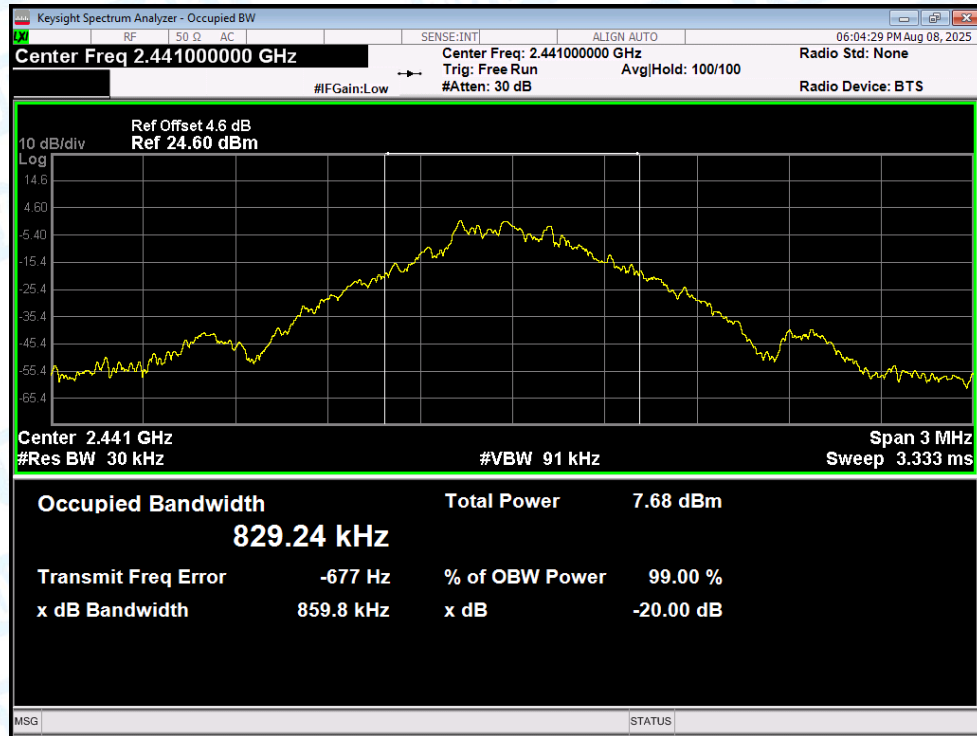
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.825
NVNT	1-DH1	2441	Ant1	0.829
NVNT	1-DH1	2480	Ant1	0.823
NVNT	2-DH1	2402	Ant1	1.163
NVNT	2-DH1	2441	Ant1	1.155
NVNT	2-DH1	2480	Ant1	1.154
NVNT	3-DH1	2402	Ant1	1.143
NVNT	3-DH1	2441	Ant1	1.157
NVNT	3-DH1	2480	Ant1	1.151

Test Graphs

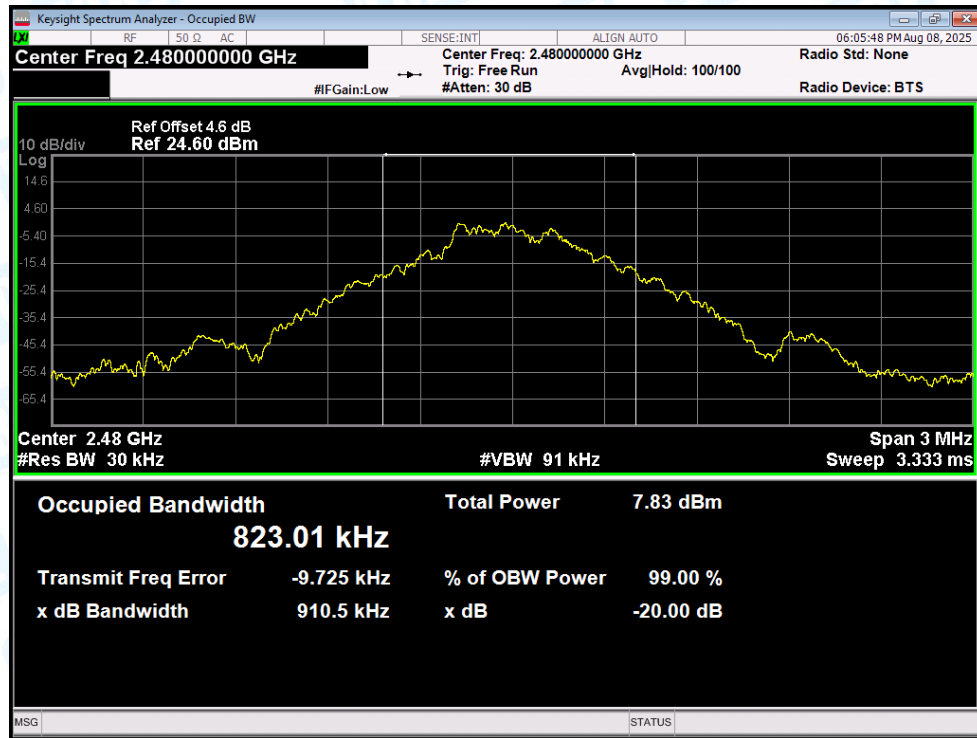
OBW NVNT 1-DH1 2402MHz Ant1



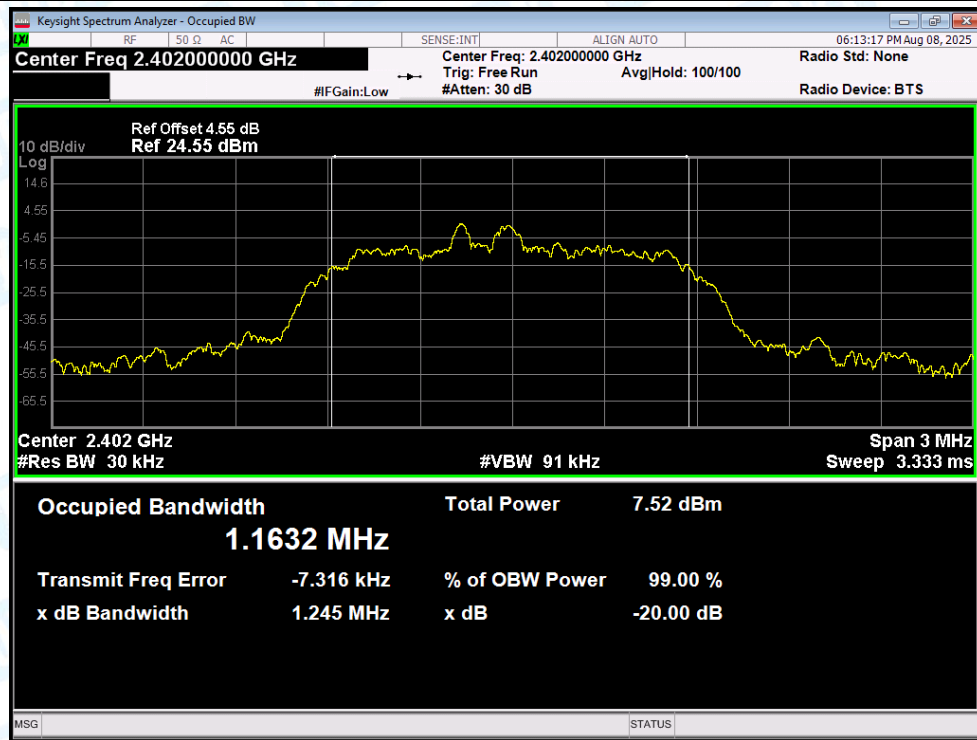
OBW NVNT 1-DH1 2441MHz Ant1



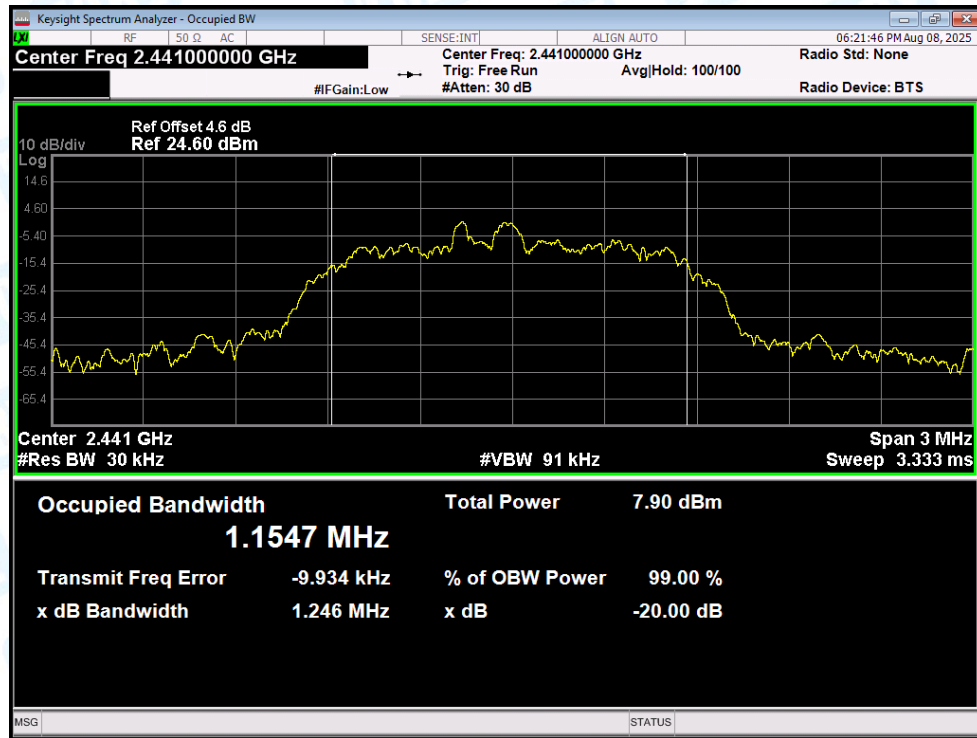
OBW NVNT 1-DH1 2480MHz Ant1



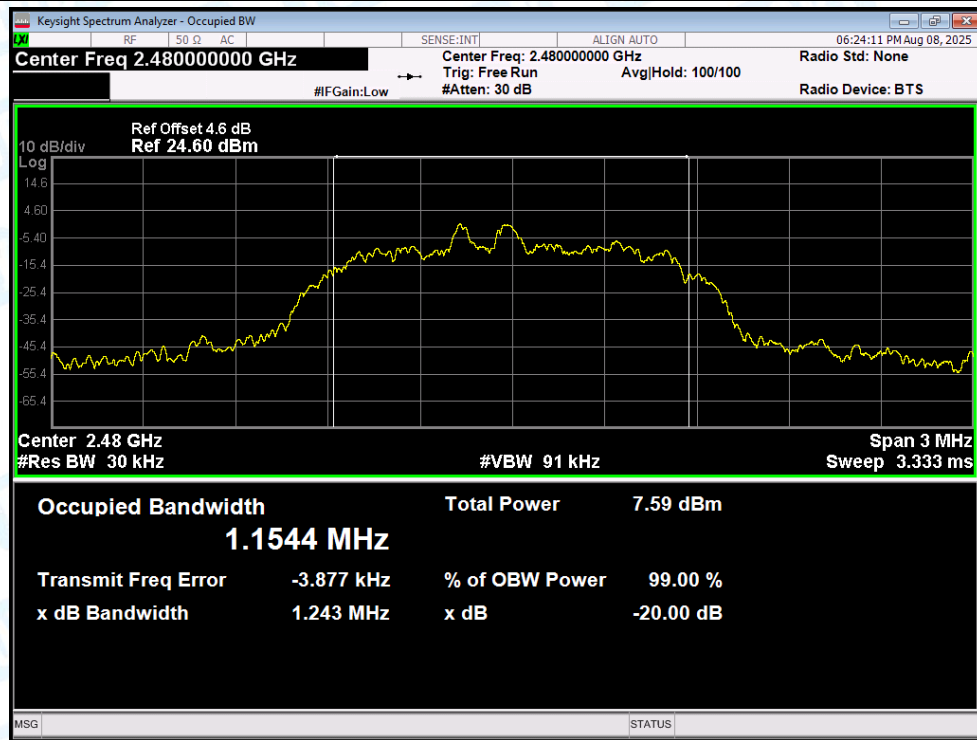
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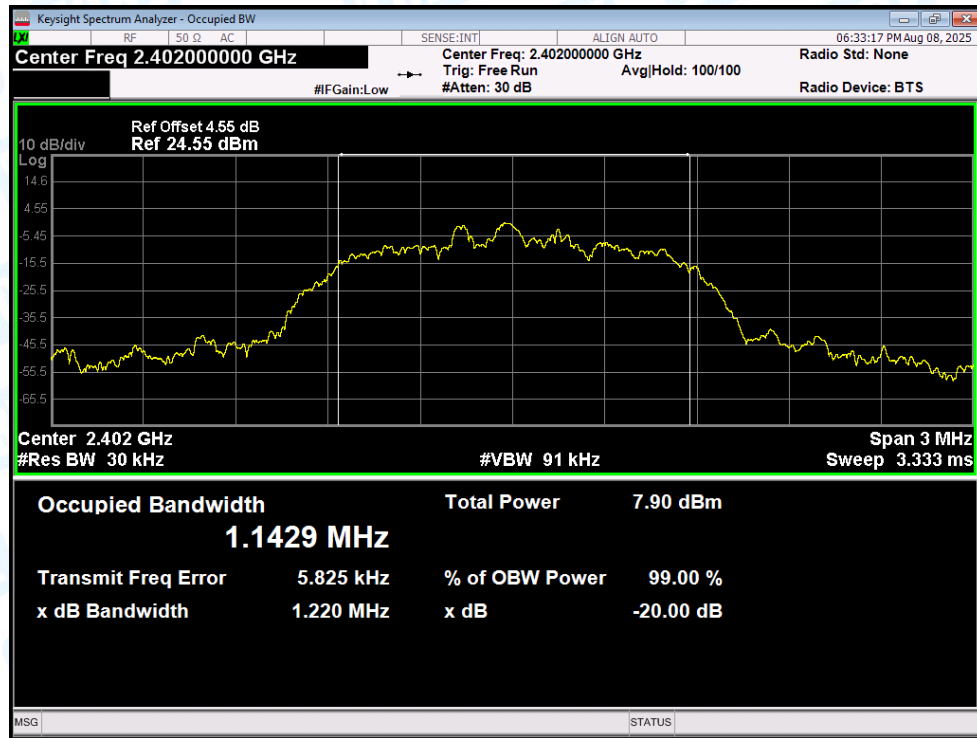
OBW NVNT 2-DH1 2441MHz Ant1



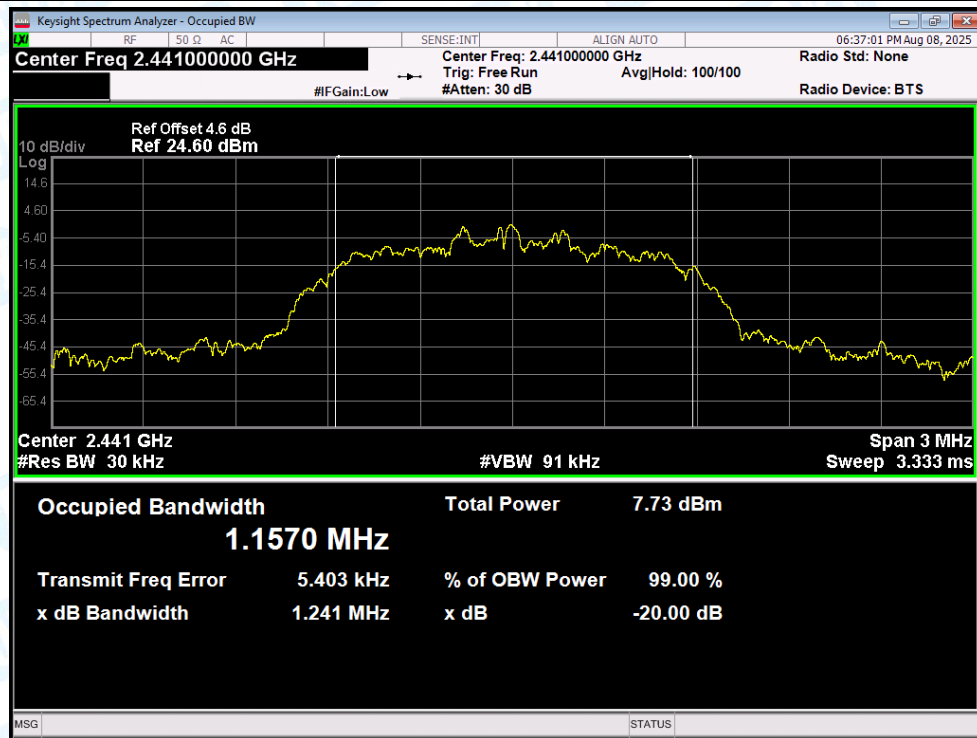
OBW NVNT 2-DH1 2480MHz Ant1

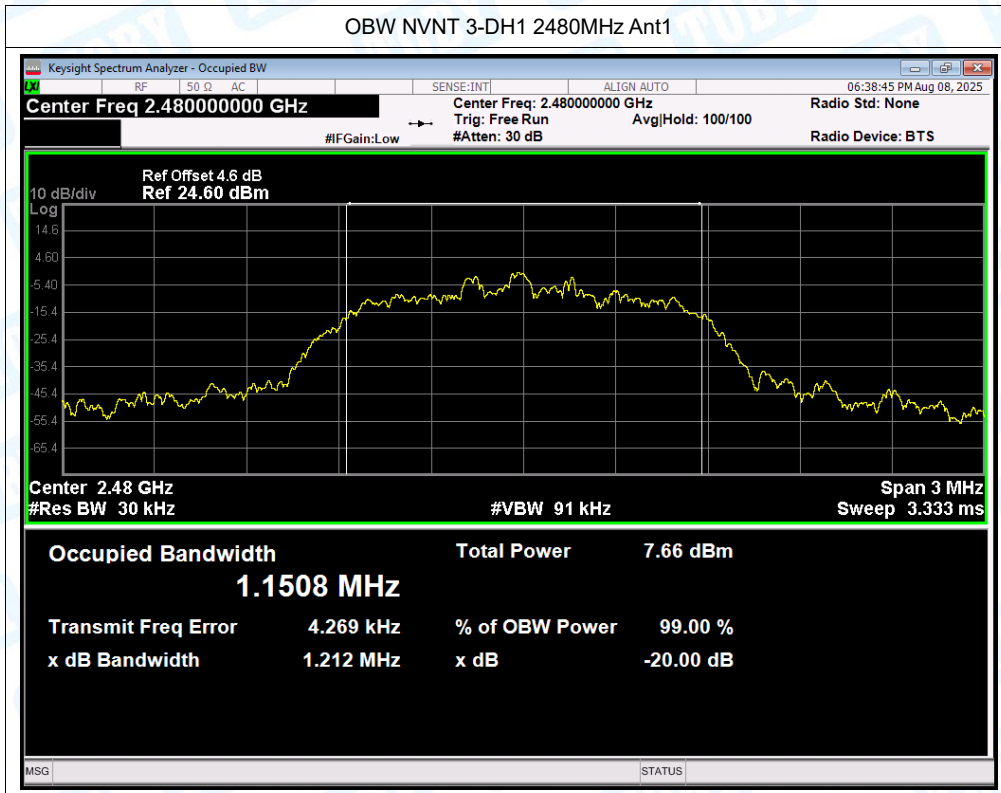


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



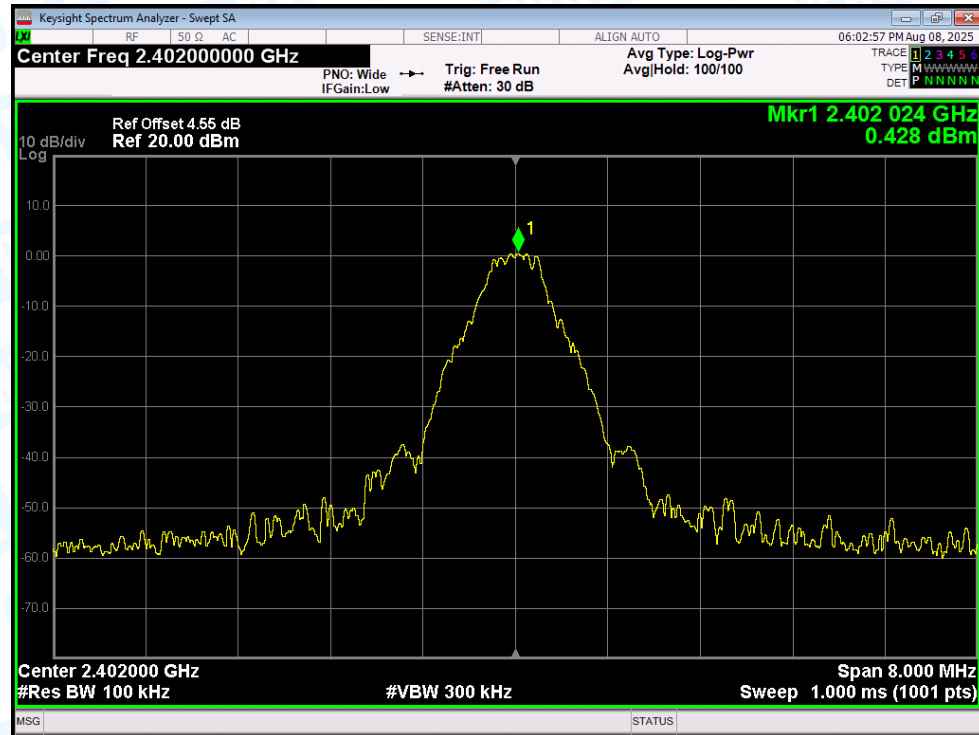


5. Band Edge

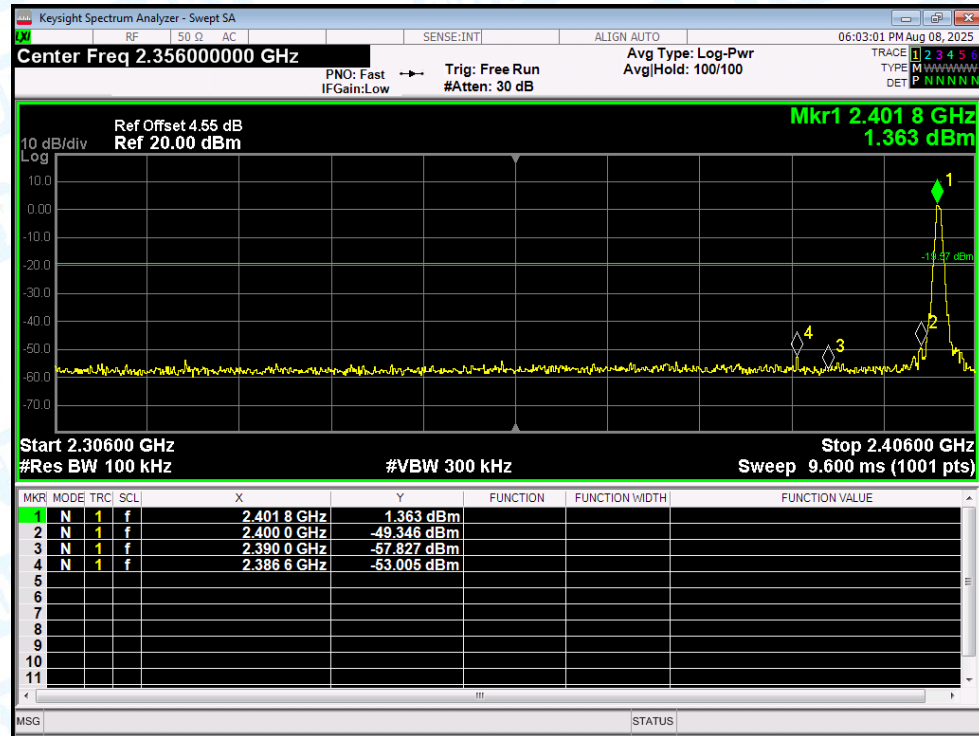
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-53.43	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-54.1	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-55.47	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.38	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-55.95	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-55.45	-20	Pass

Test Graphs

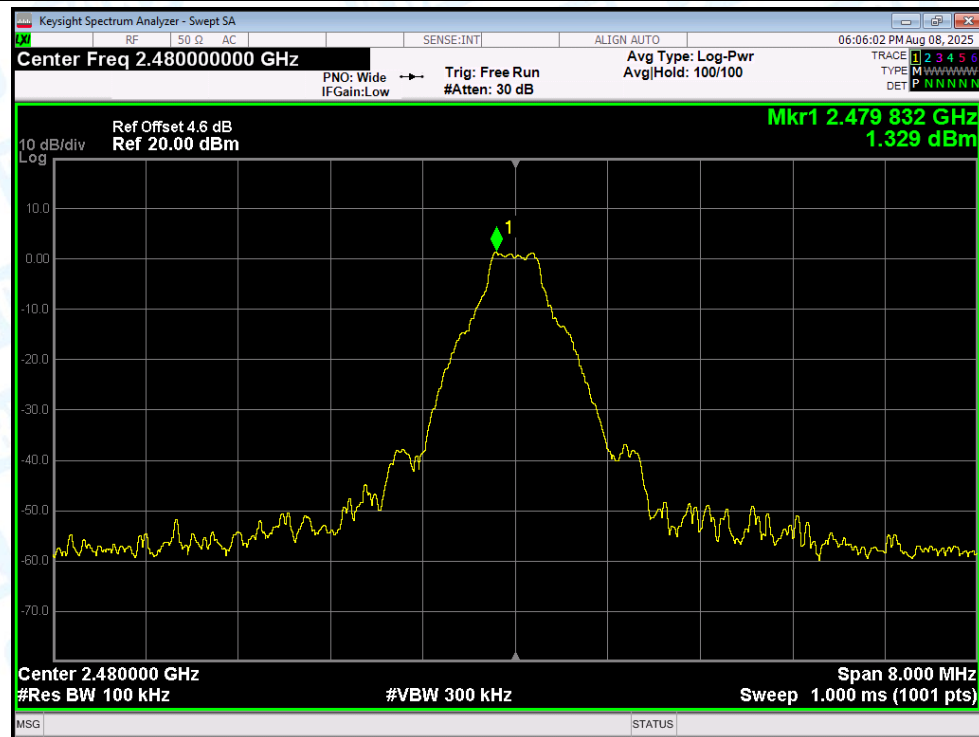
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



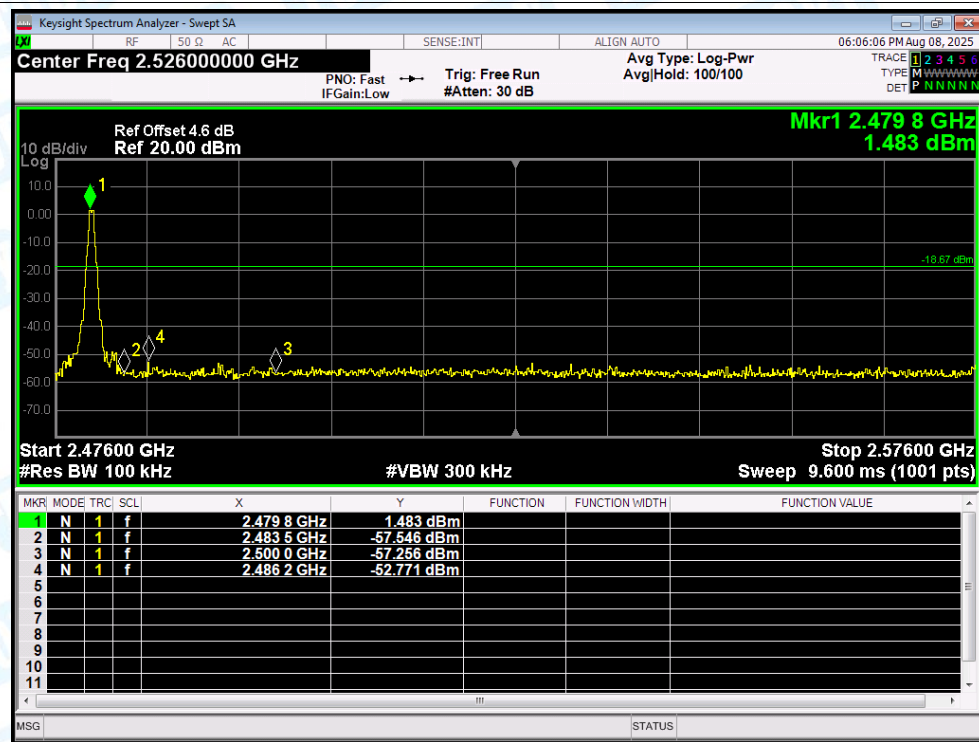
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



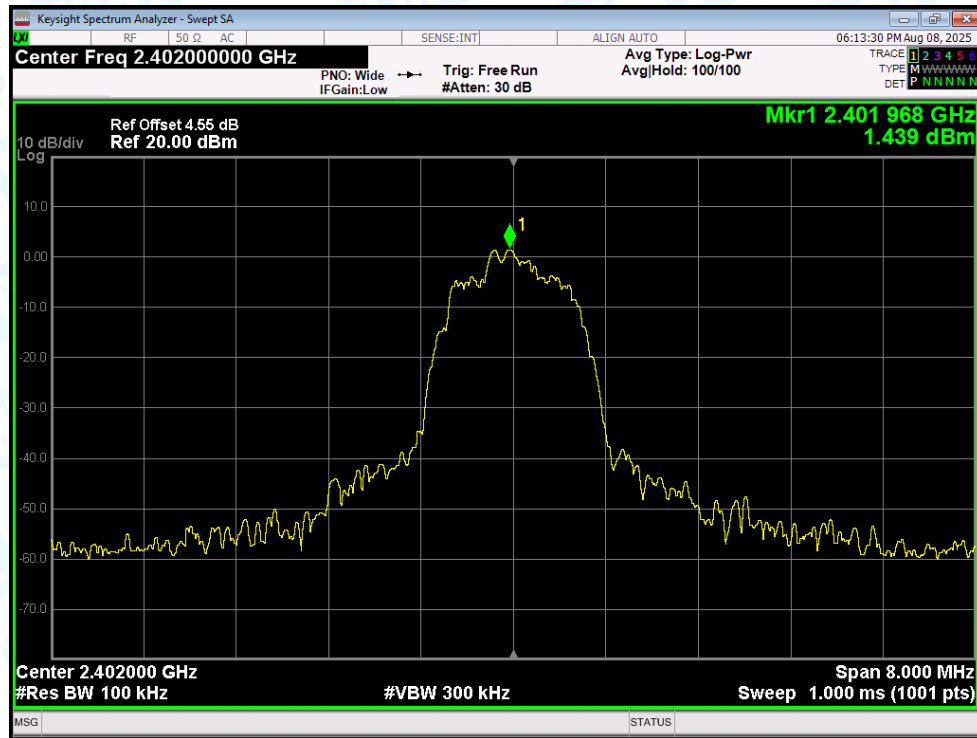
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



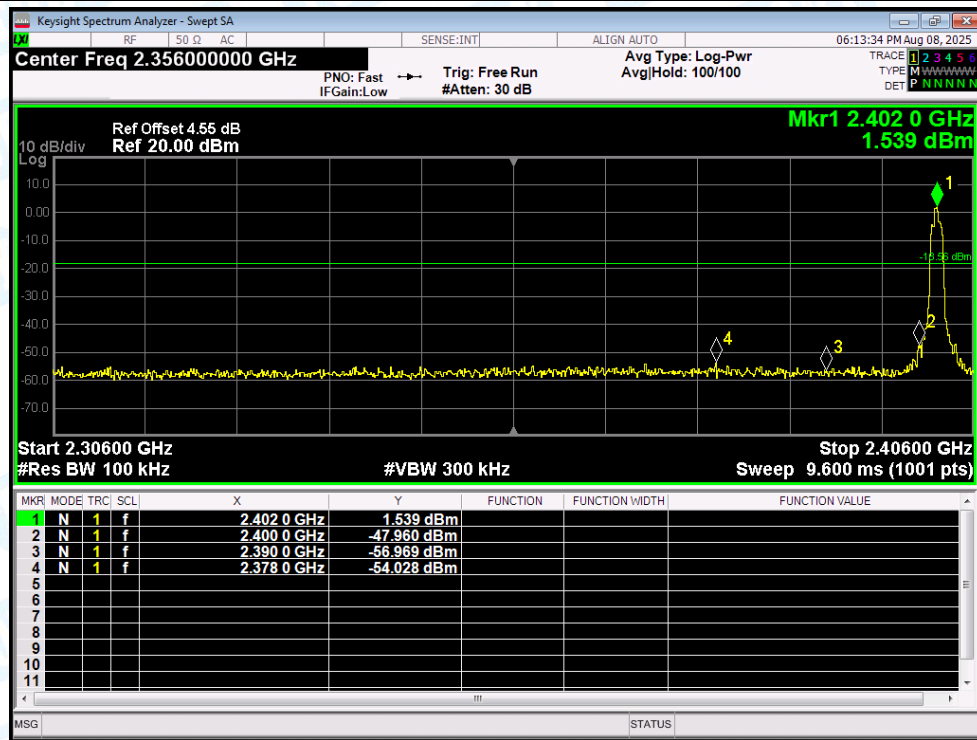
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission

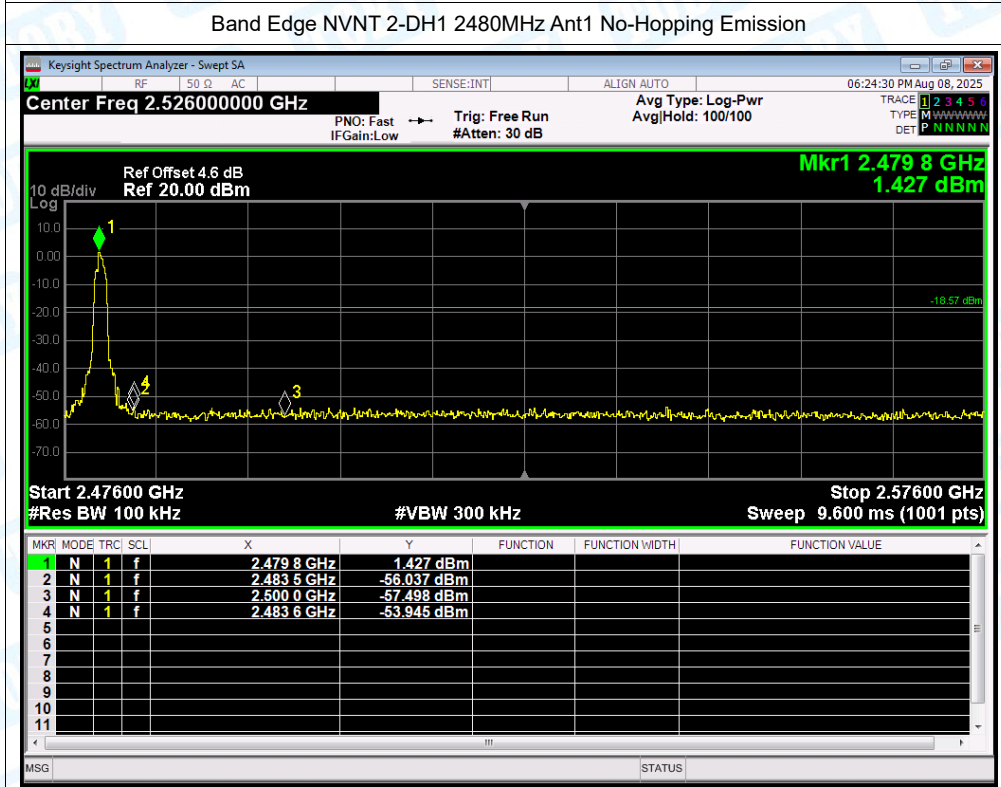
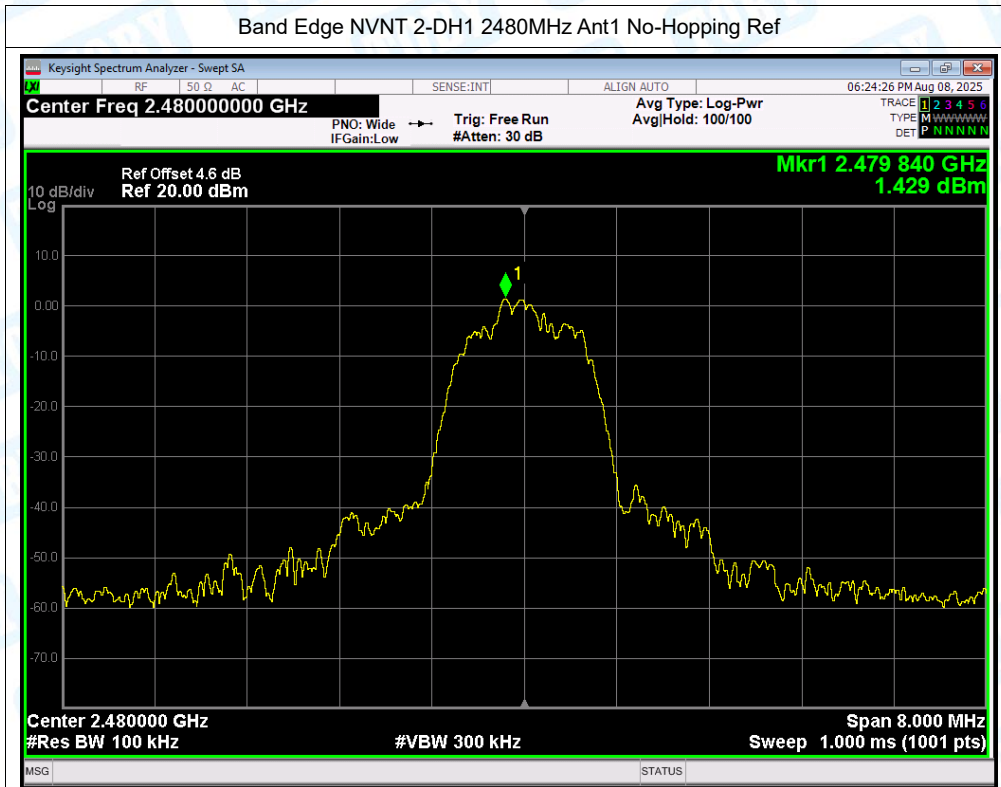


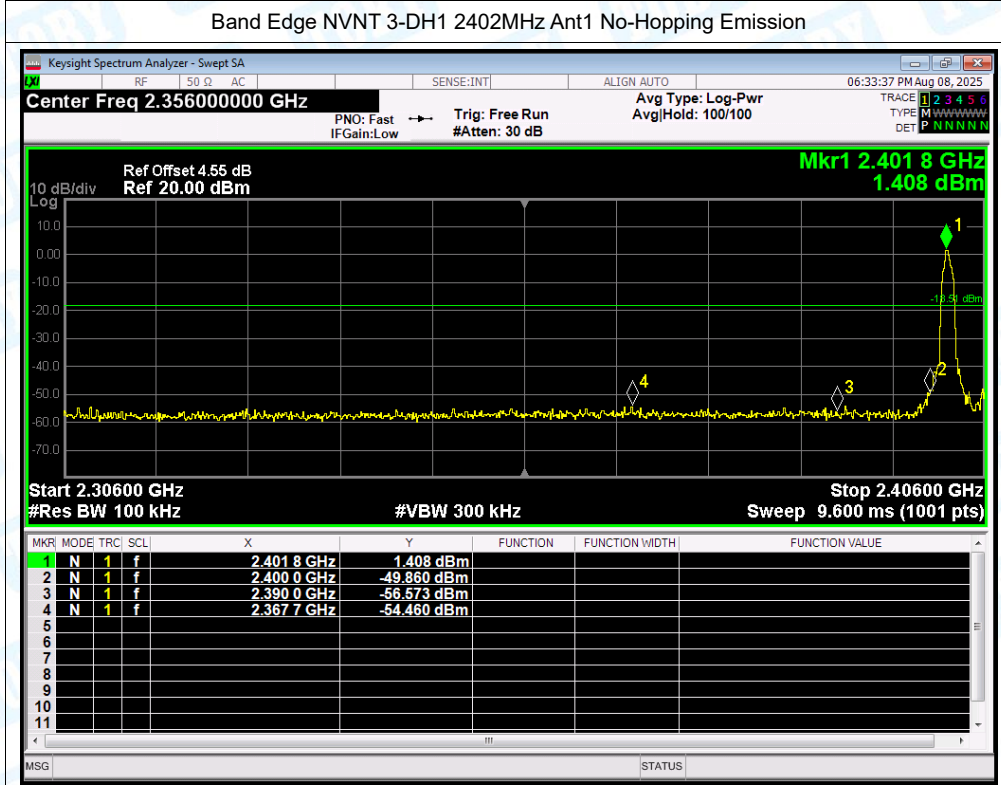
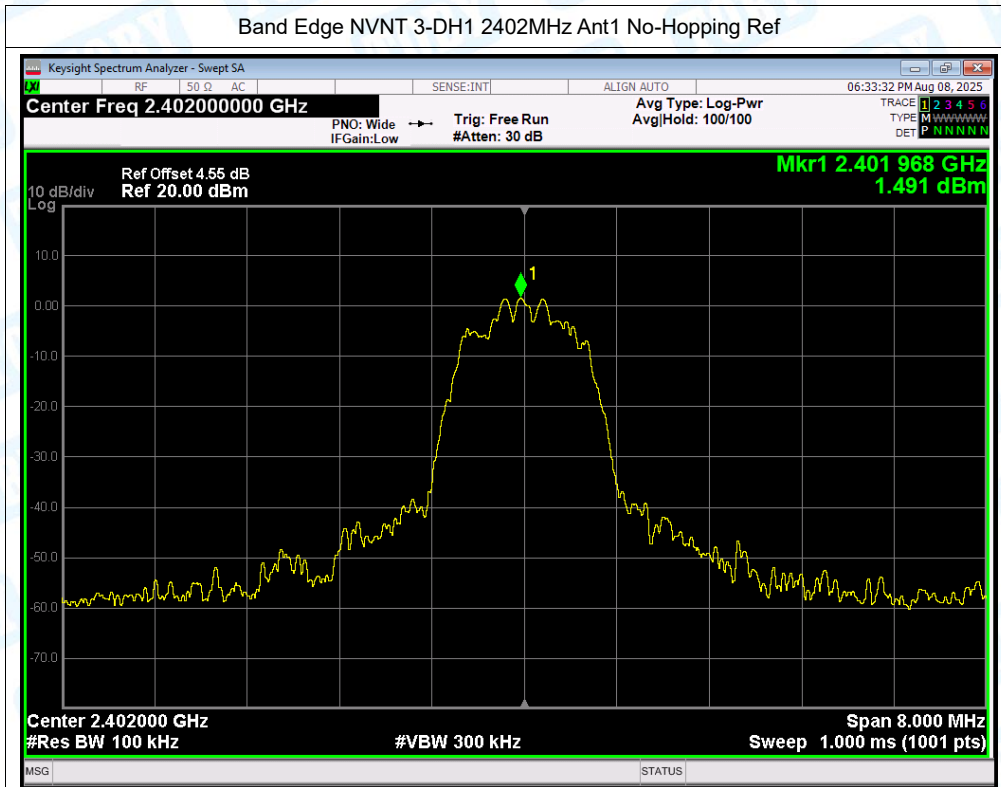
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref

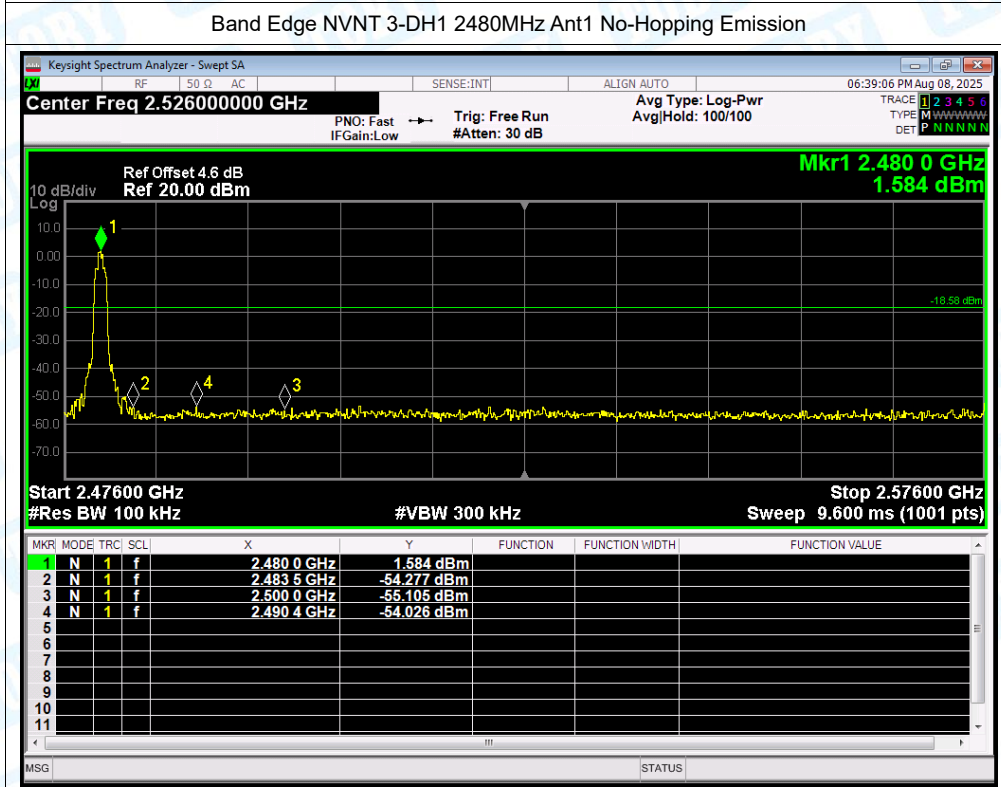
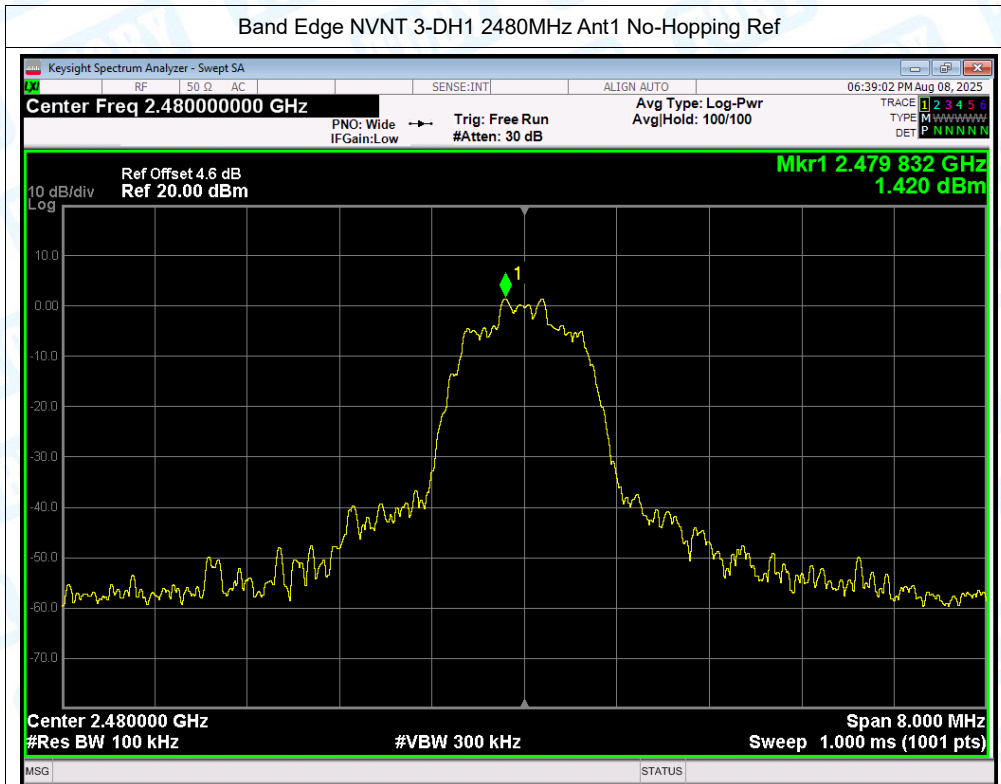


Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission







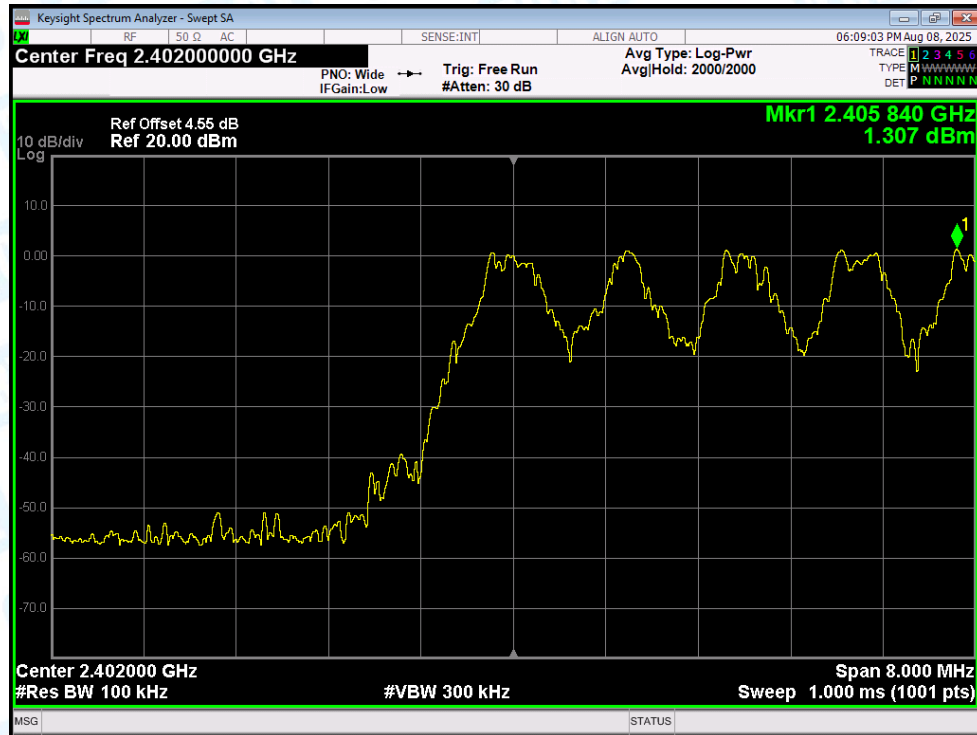


6. Band Edge(Hopping)

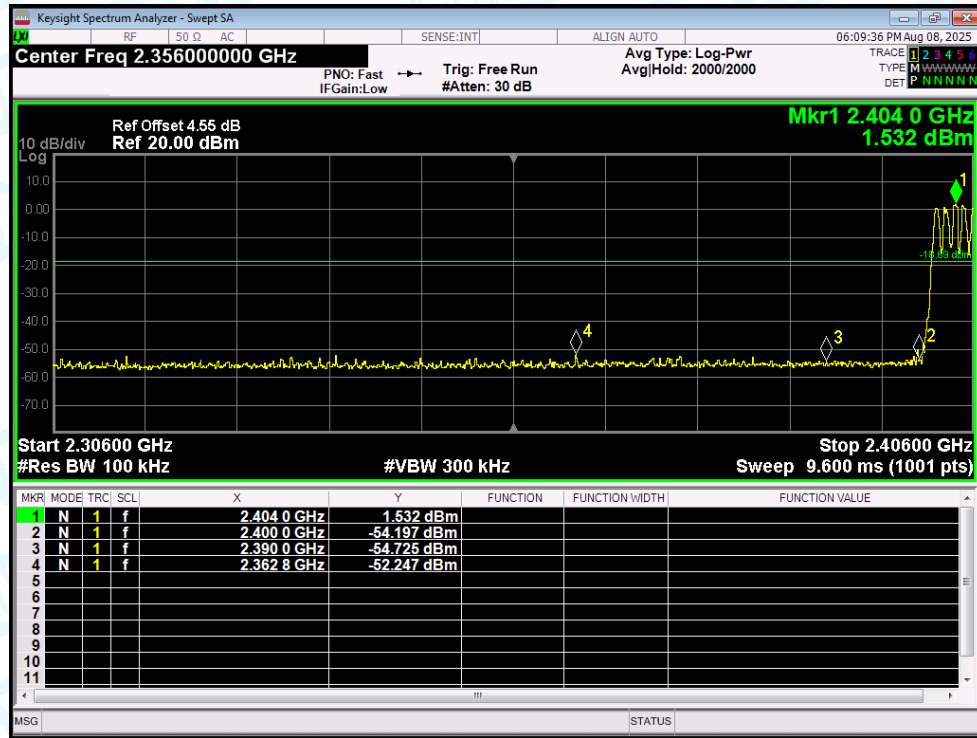
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-53.56	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-55.04	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-55.2	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-51.17	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-54.54	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-53.88	-20	Pass

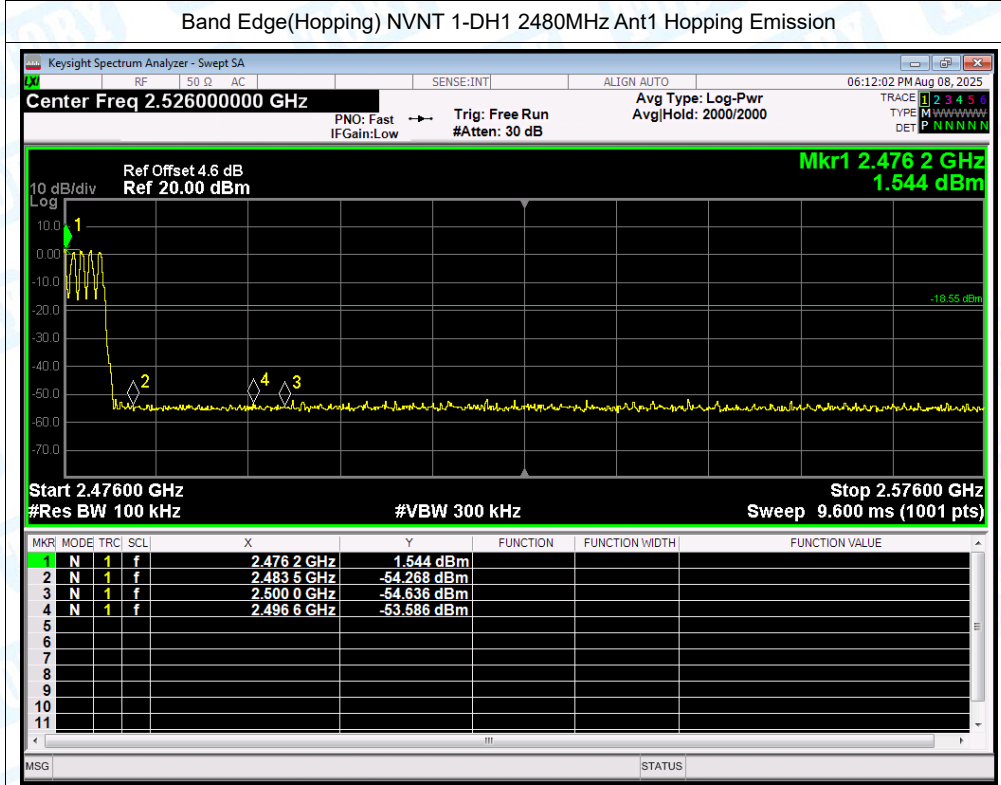
Test Graphs

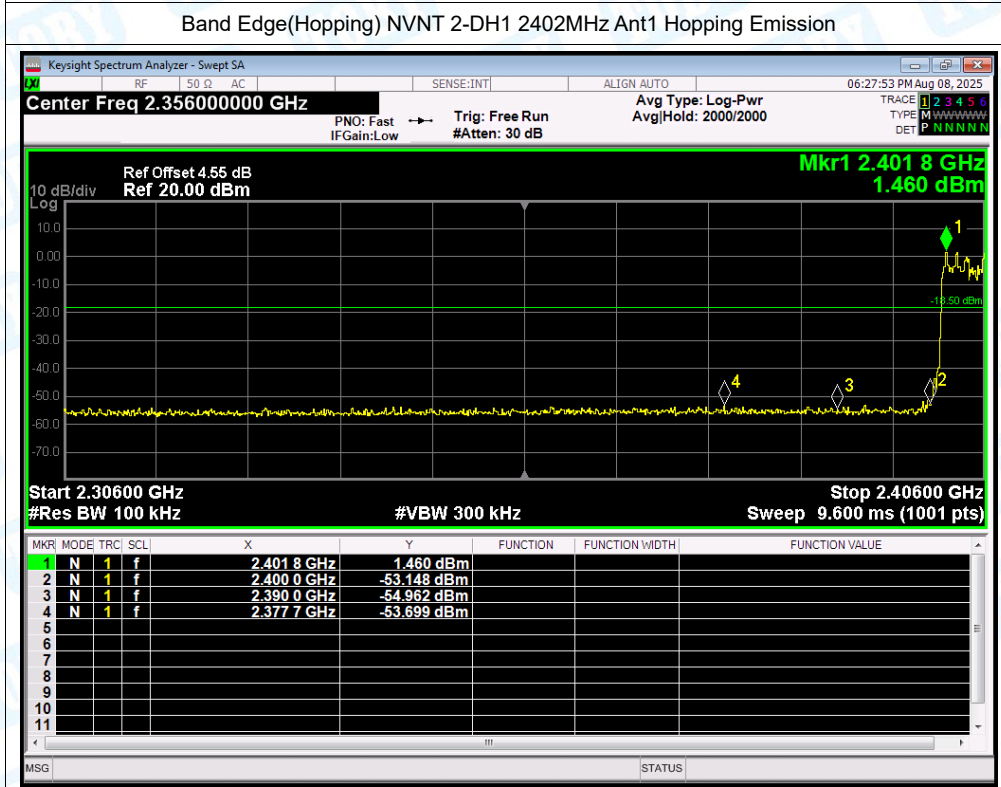
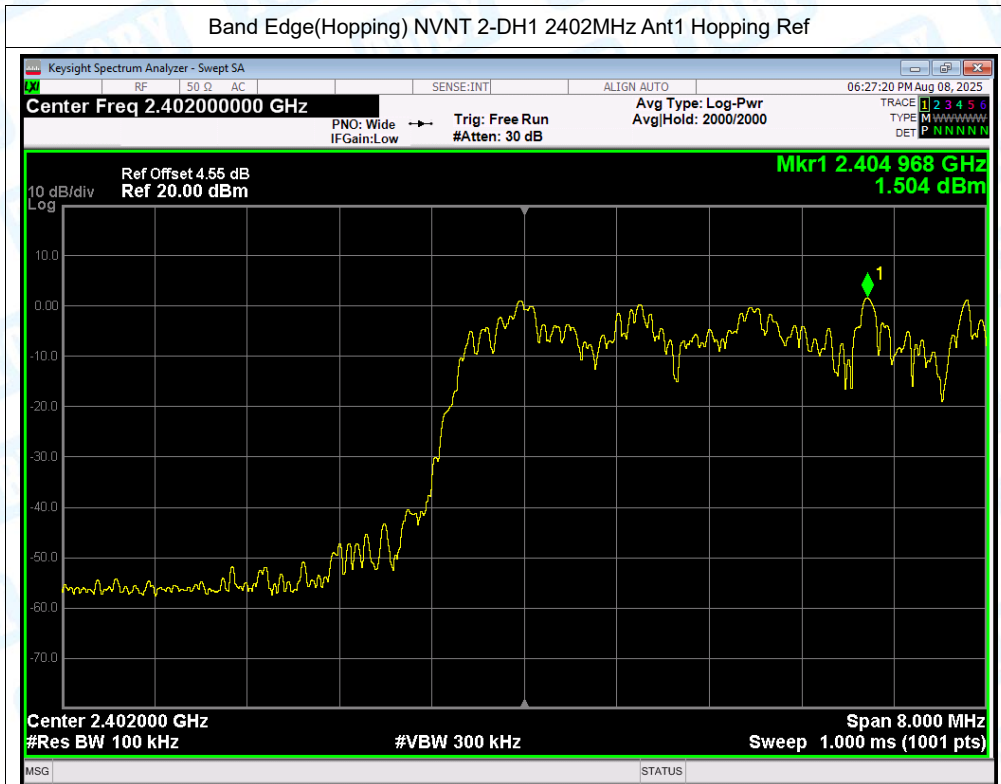
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



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



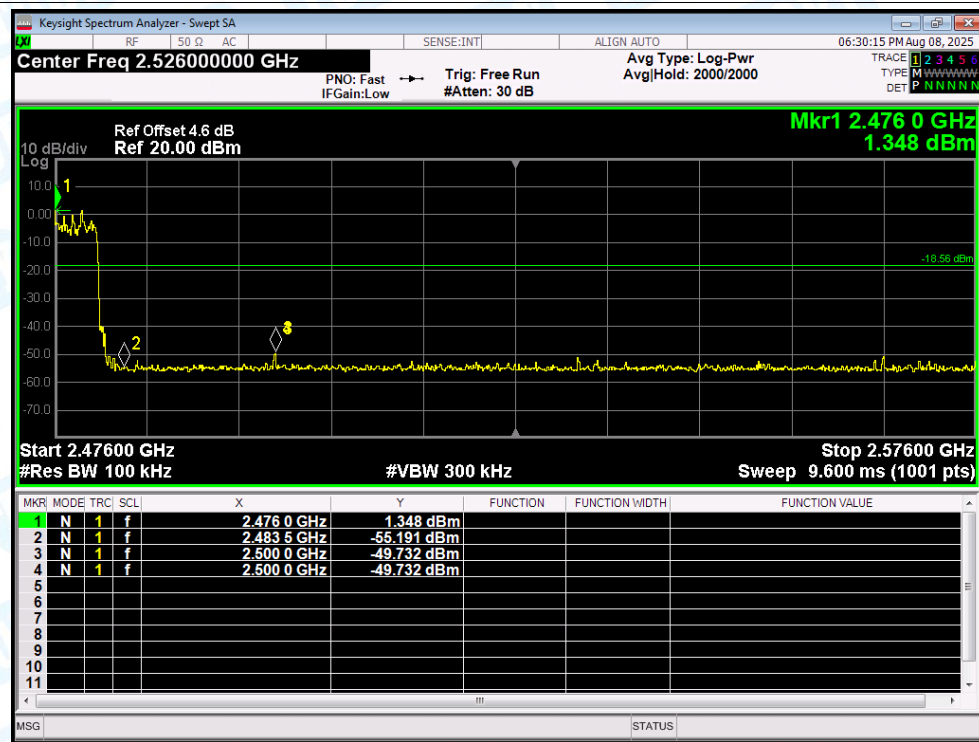




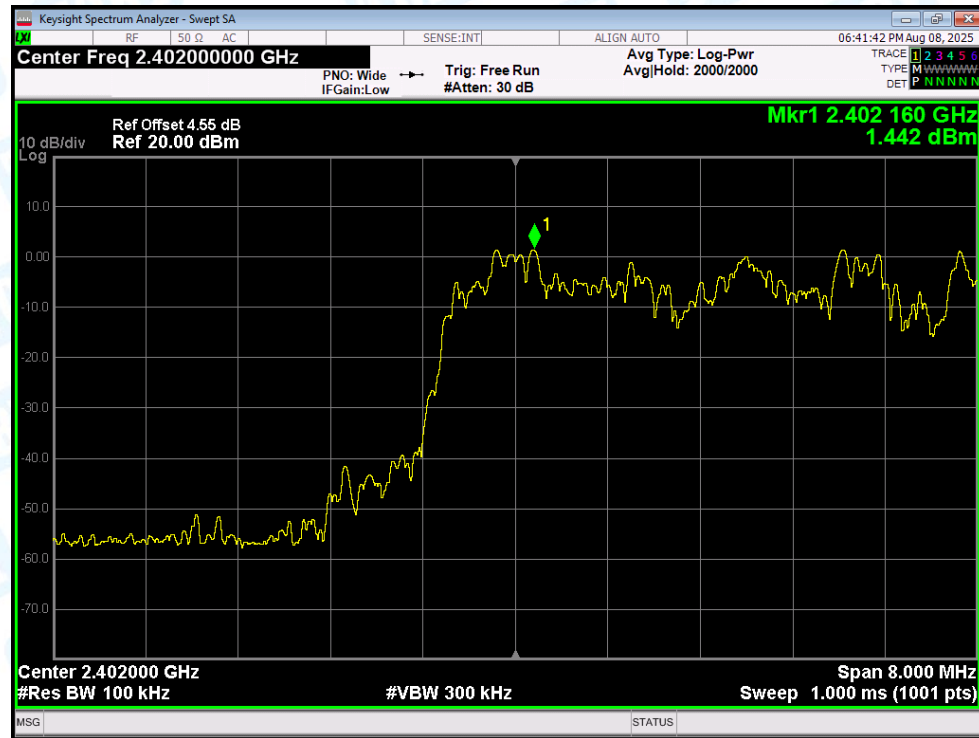
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



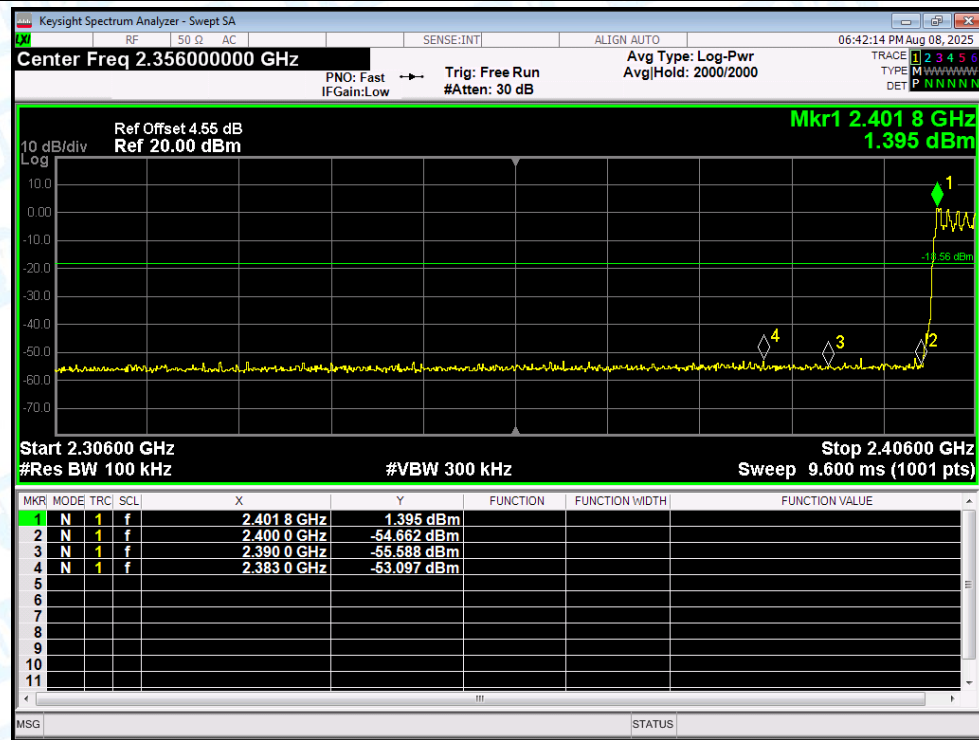
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission

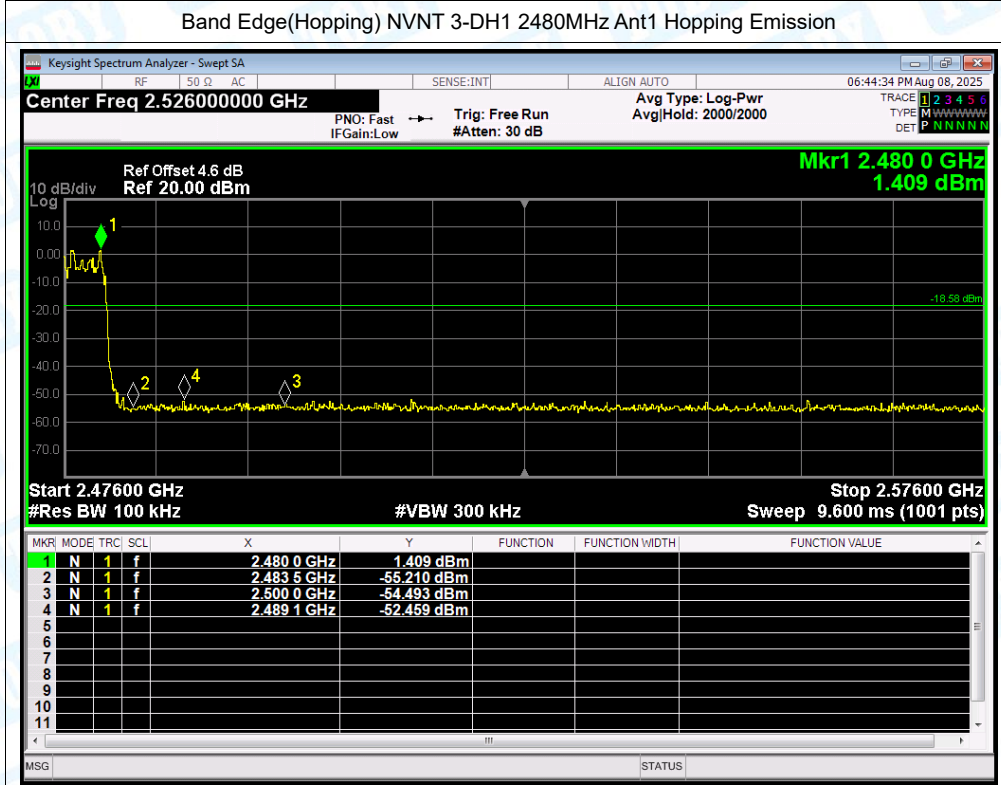


Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



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



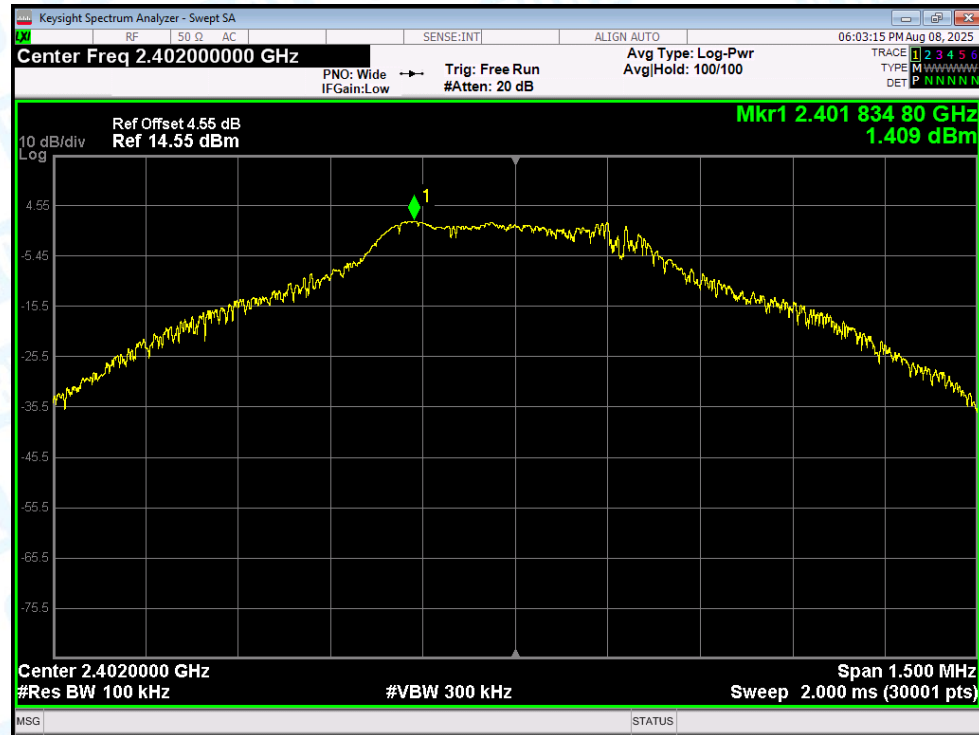


7. Conducted RF Spurious Emission

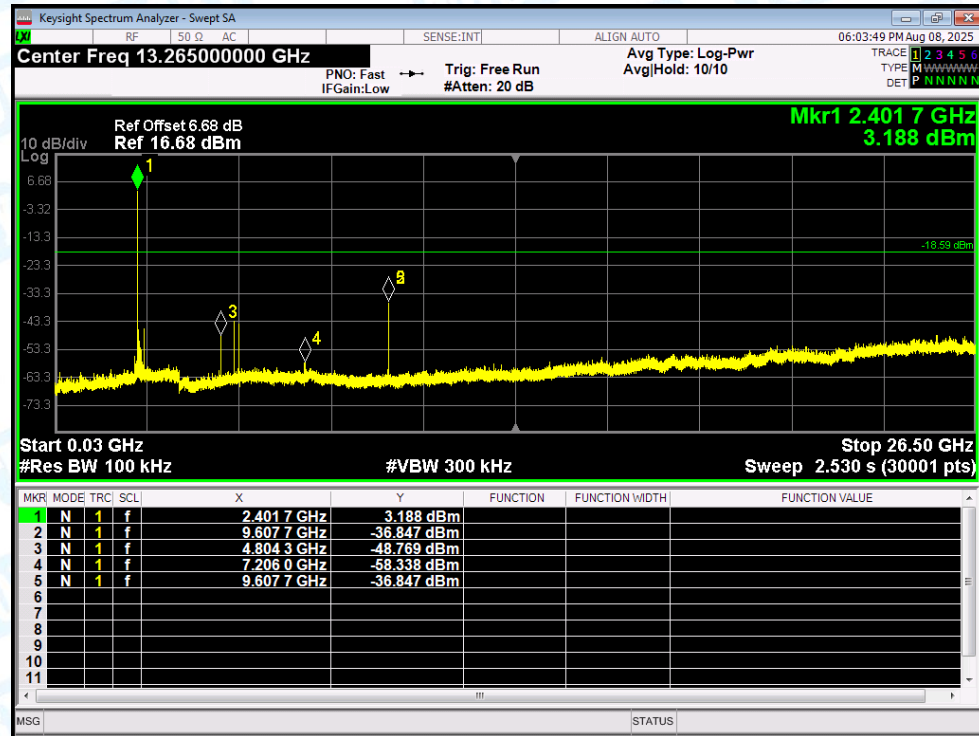
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-38.26	-20	Pass
NVNT	1-DH1	2441	Ant1	-38.86	-20	Pass
NVNT	1-DH1	2480	Ant1	-39.17	-20	Pass
NVNT	2-DH1	2402	Ant1	-38.11	-20	Pass
NVNT	2-DH1	2441	Ant1	-38.29	-20	Pass
NVNT	2-DH1	2480	Ant1	-38.85	-20	Pass
NVNT	3-DH1	2402	Ant1	-37.96	-20	Pass
NVNT	3-DH1	2441	Ant1	-38.49	-20	Pass
NVNT	3-DH1	2480	Ant1	-39.1	-20	Pass

Test Graphs

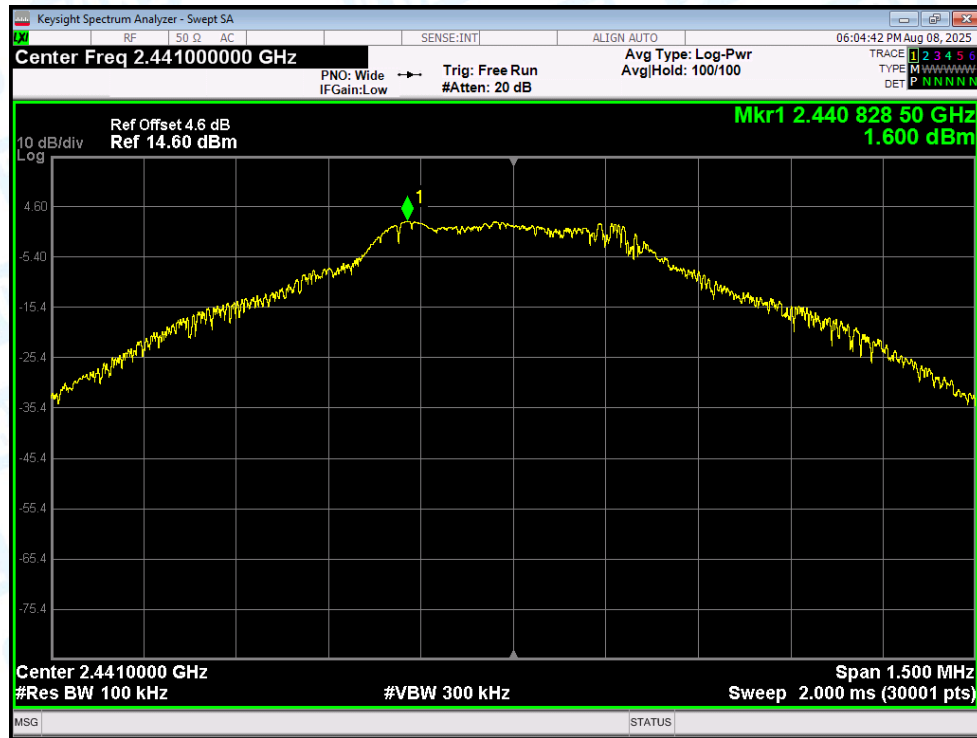
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



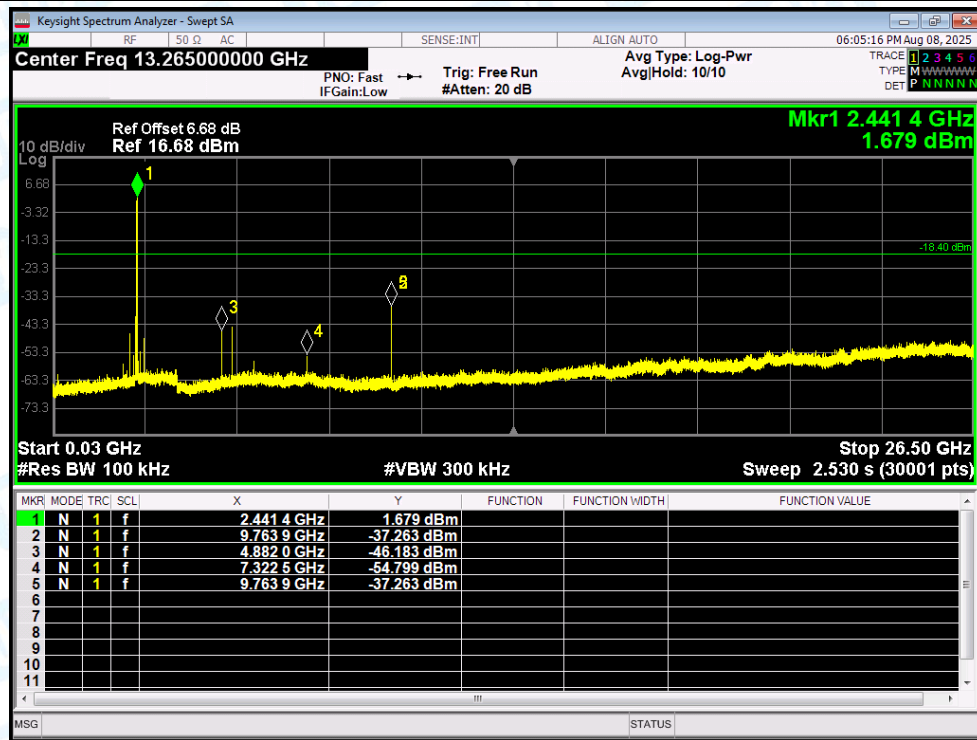
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



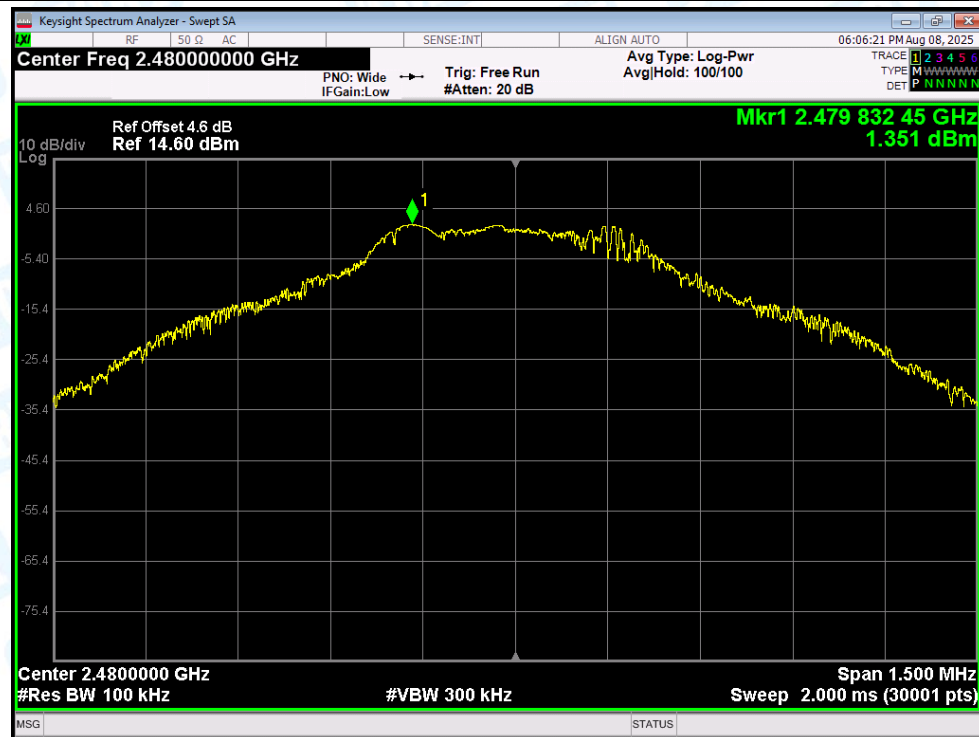
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



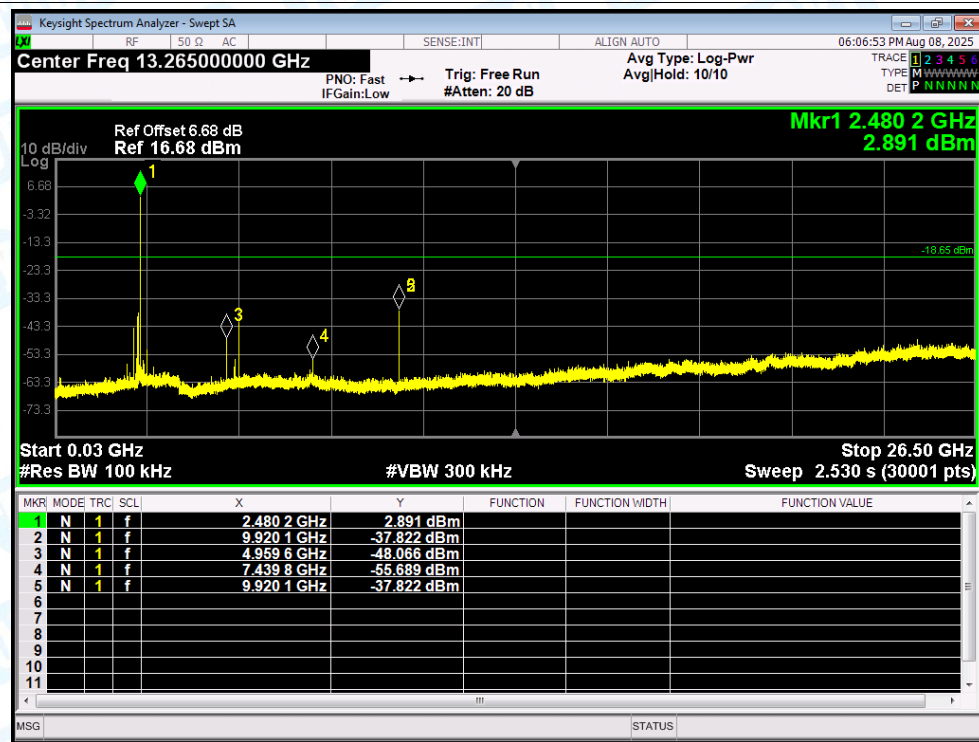
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



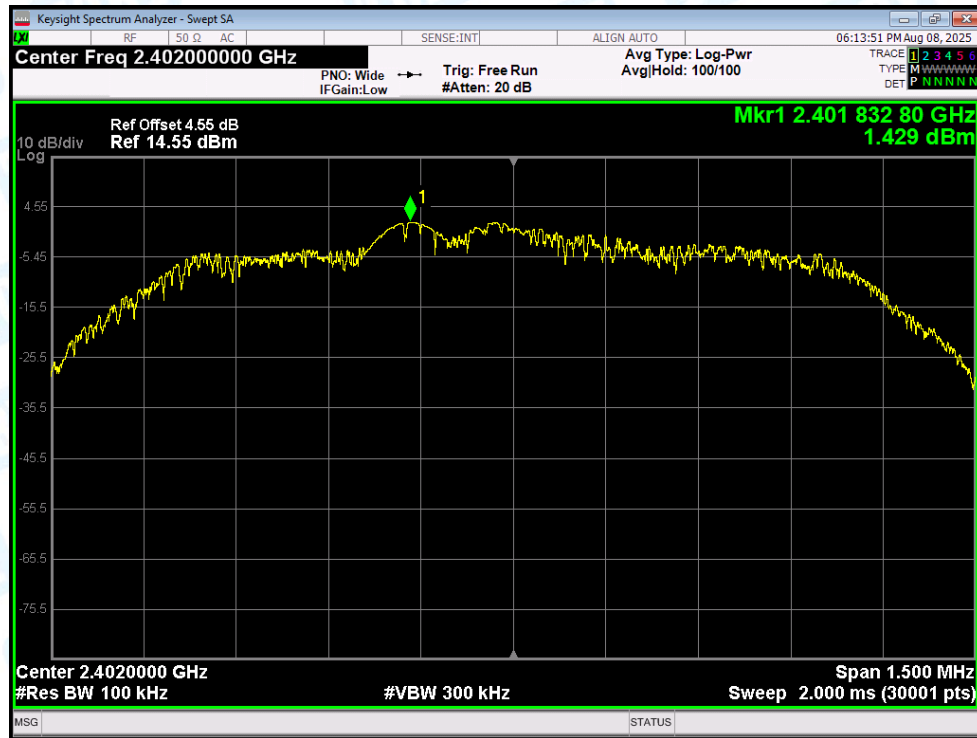
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



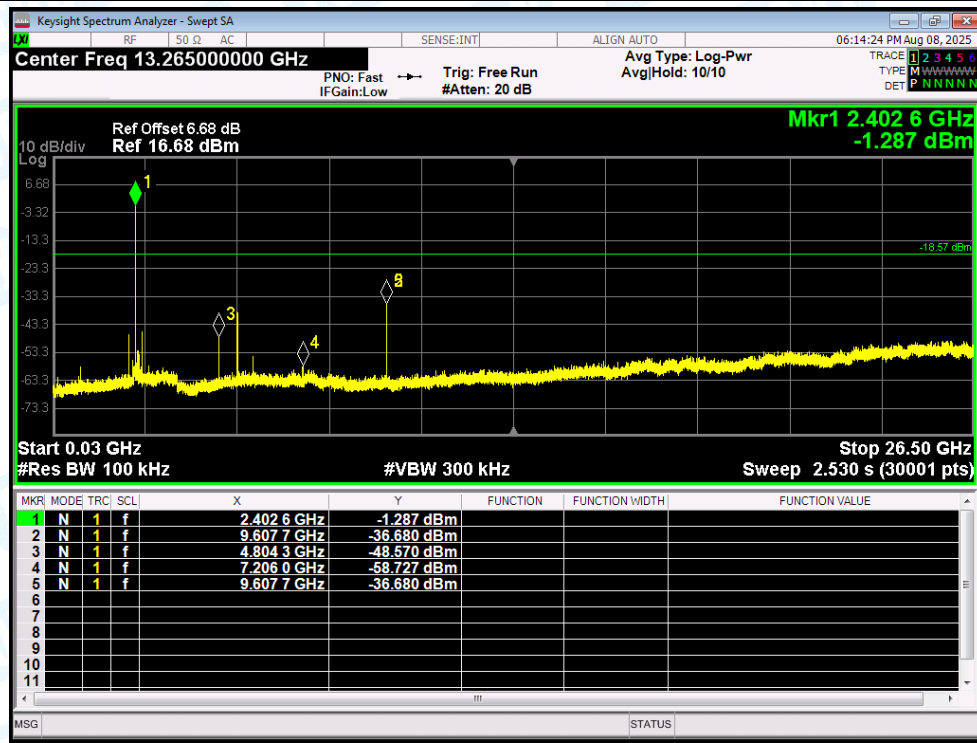
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



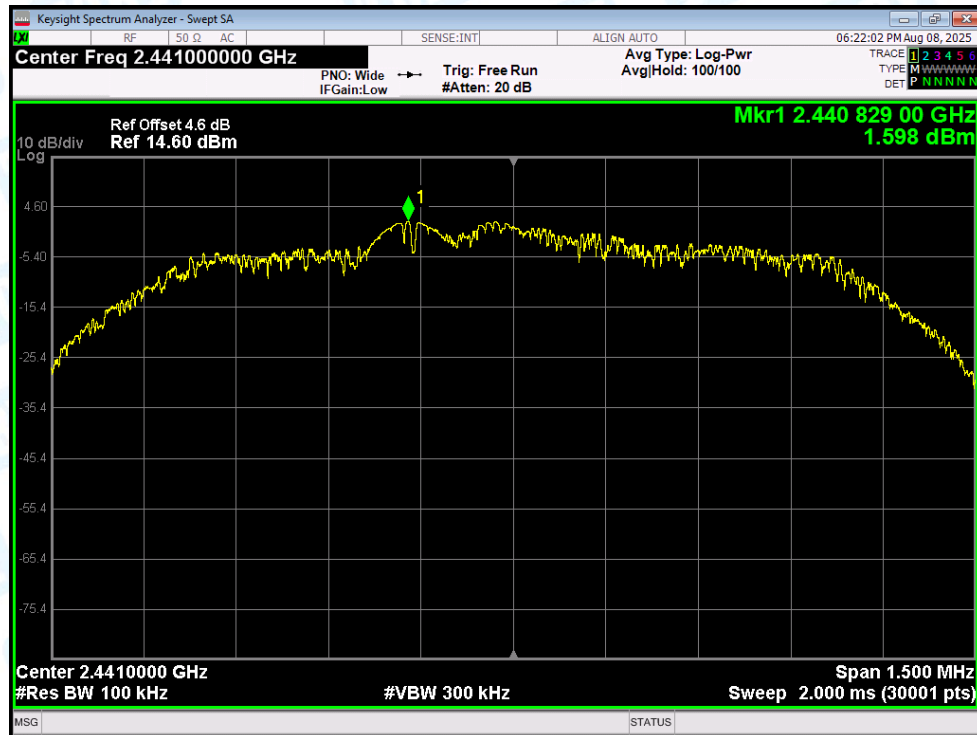
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



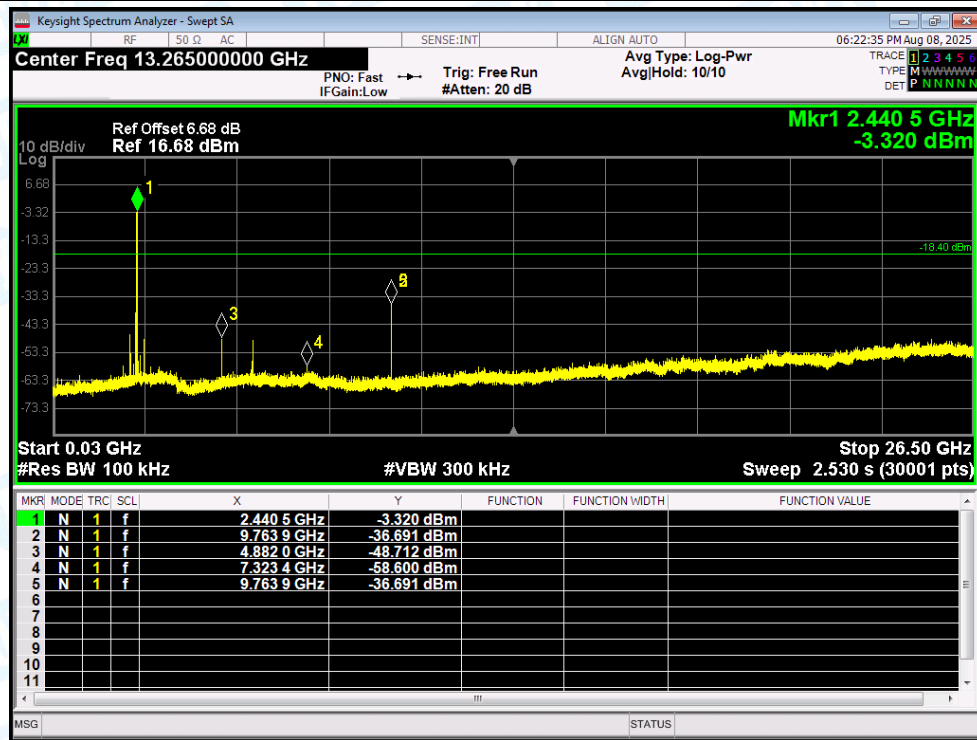
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



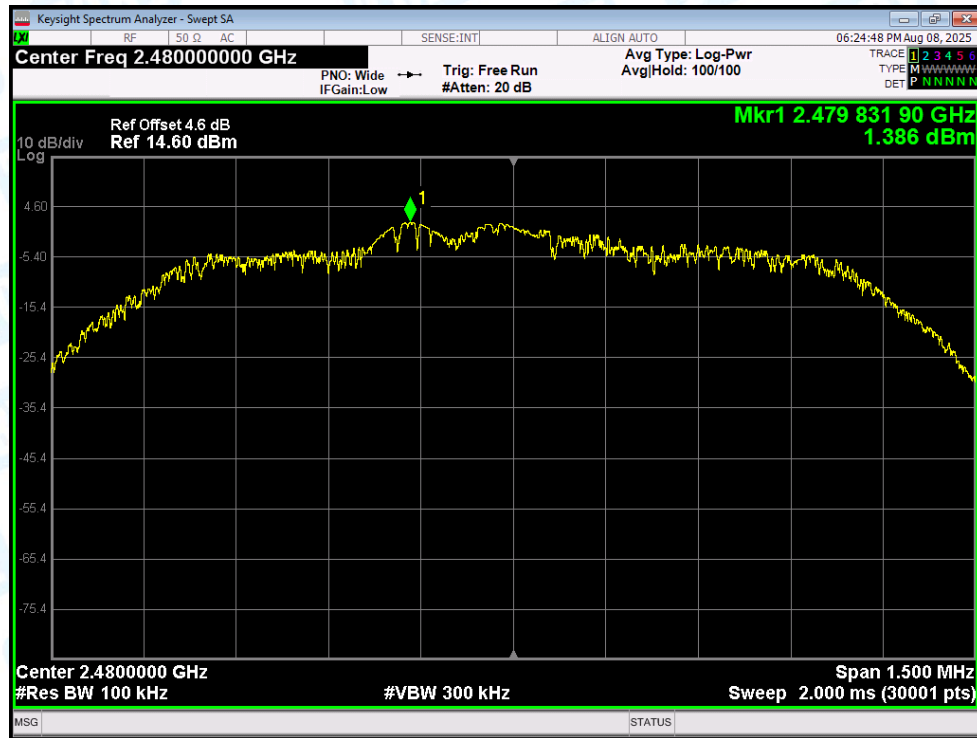
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



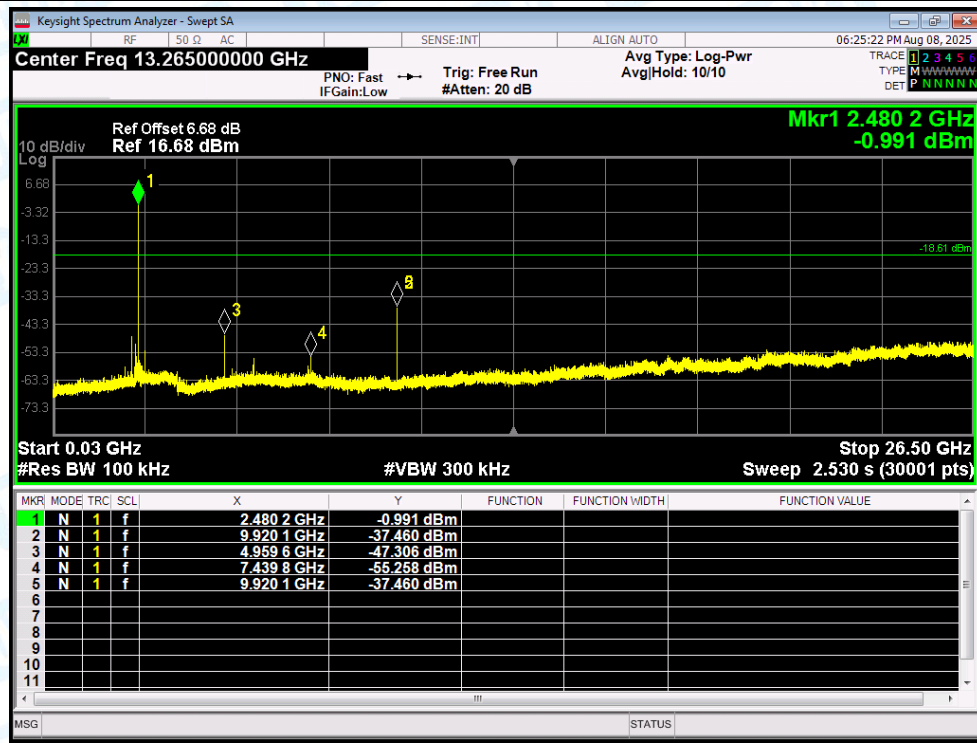
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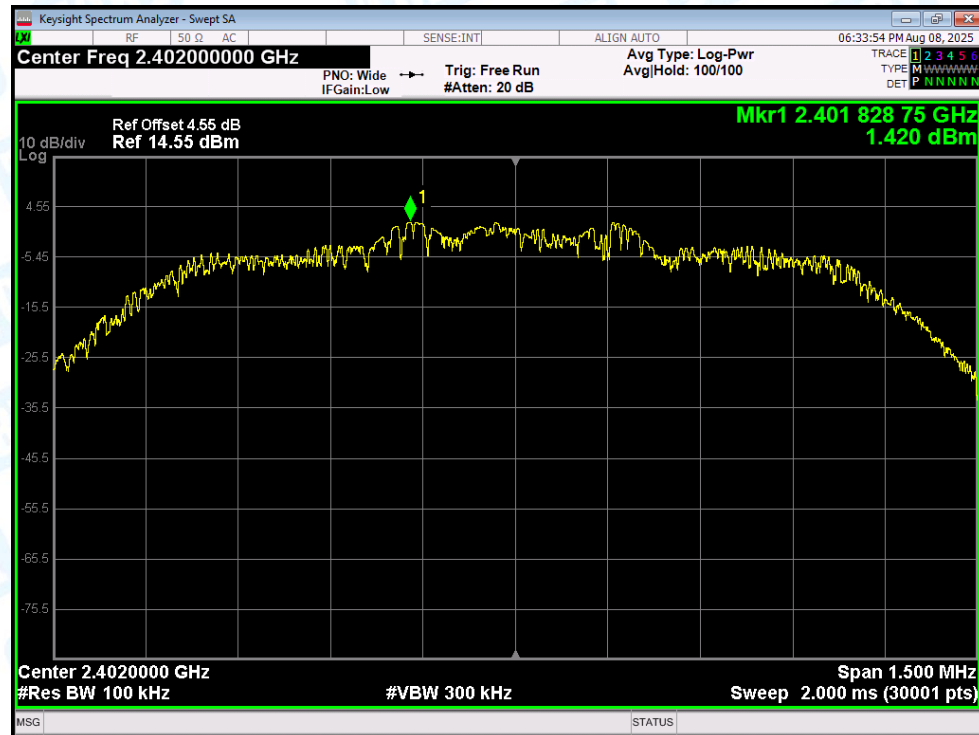
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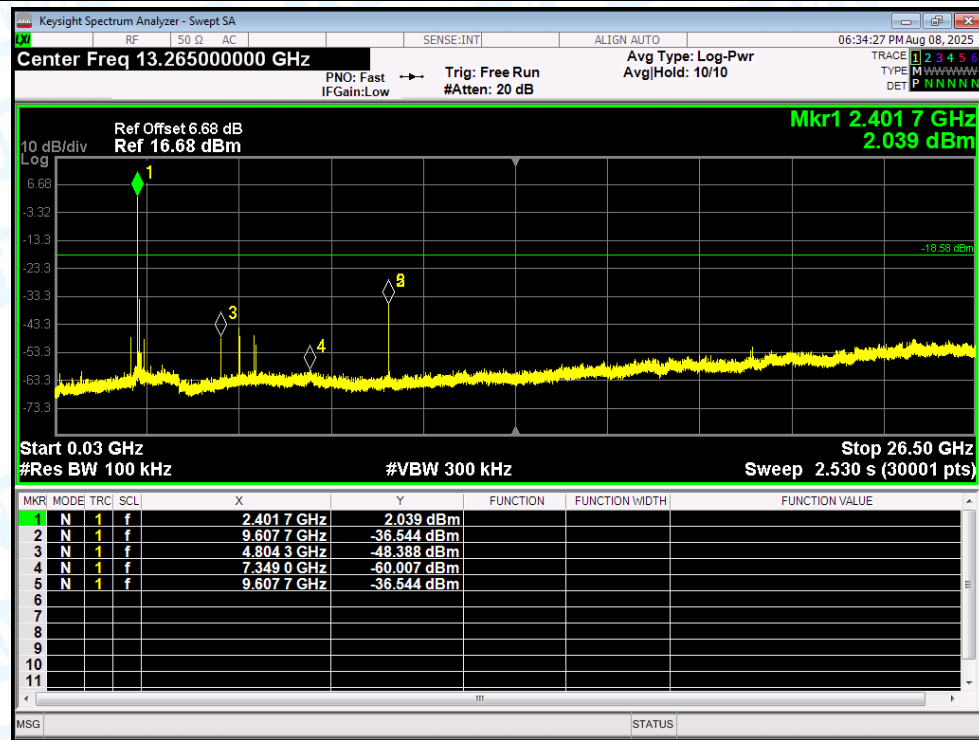
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



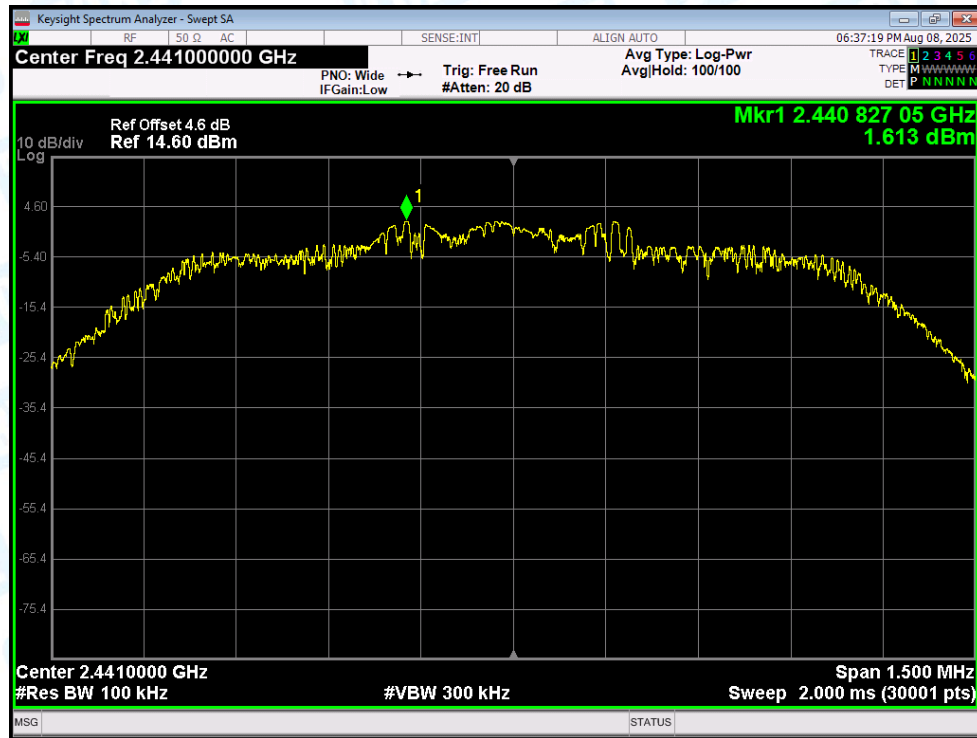
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



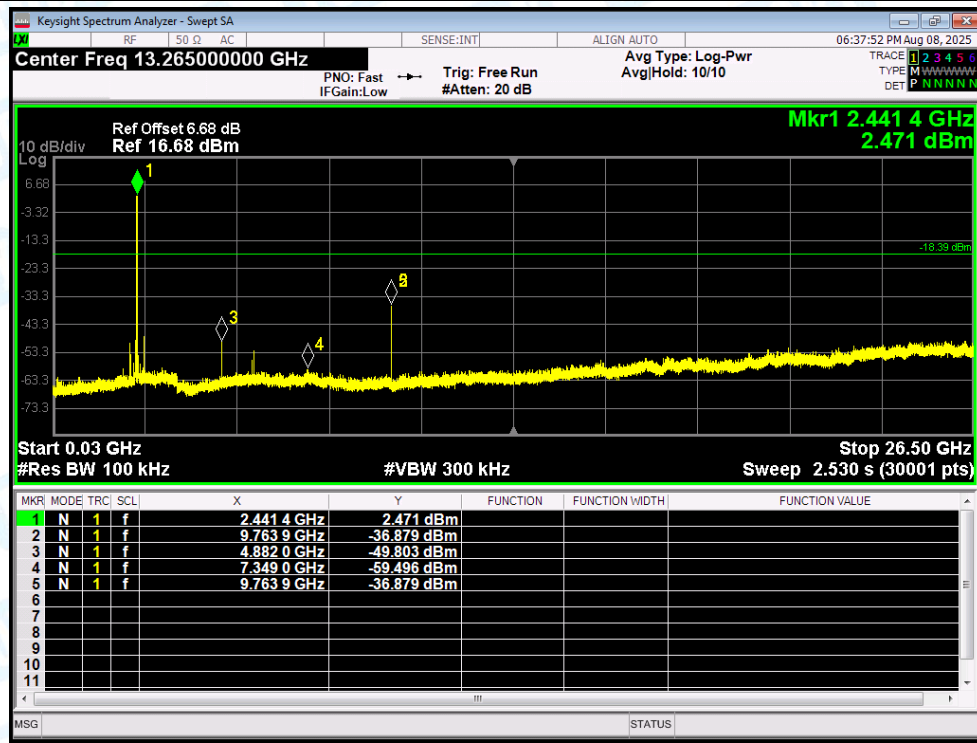
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



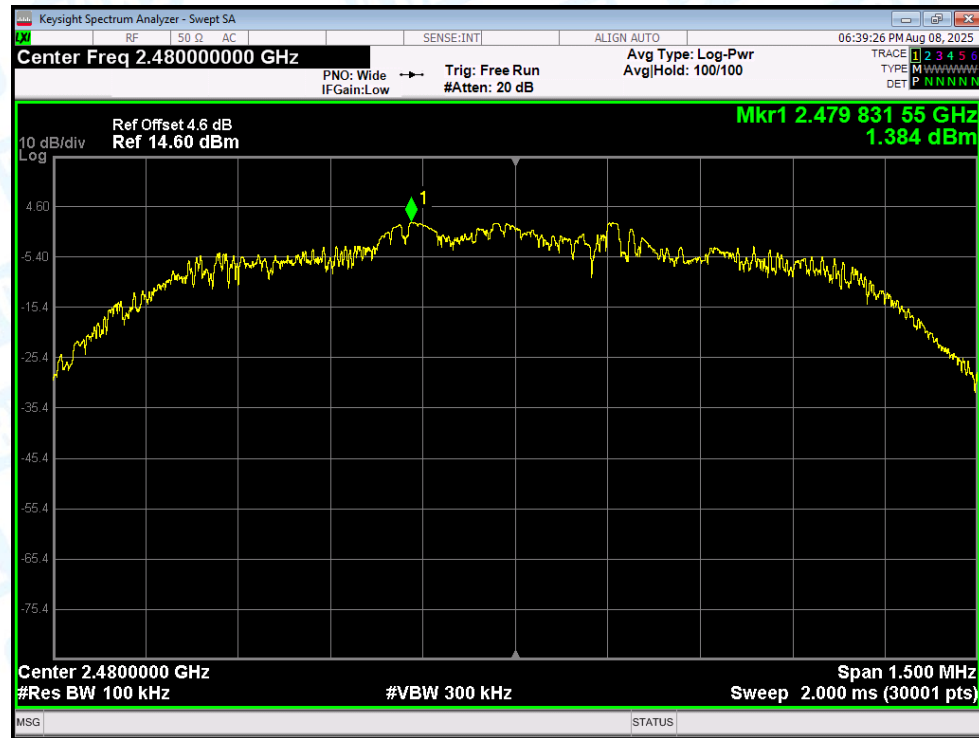
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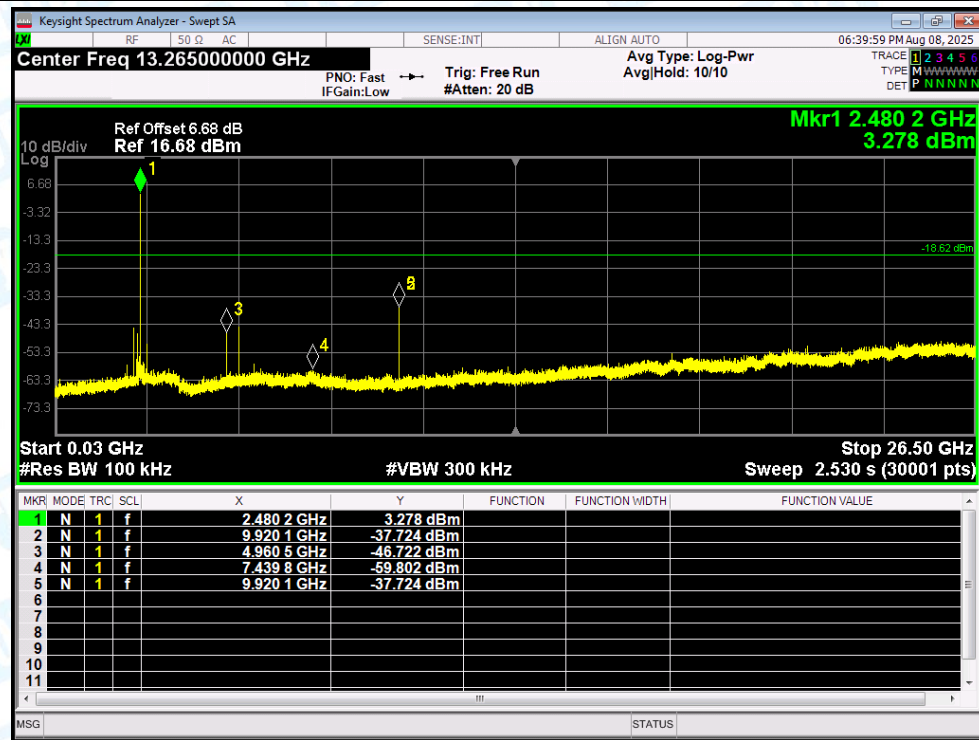
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

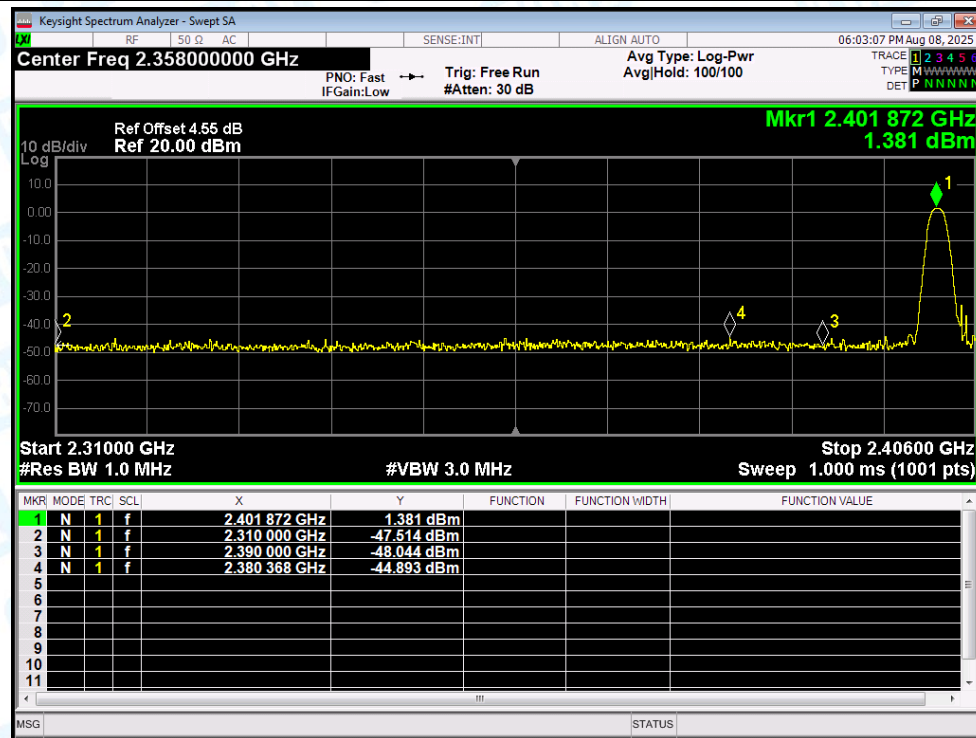


8. Restrict Band

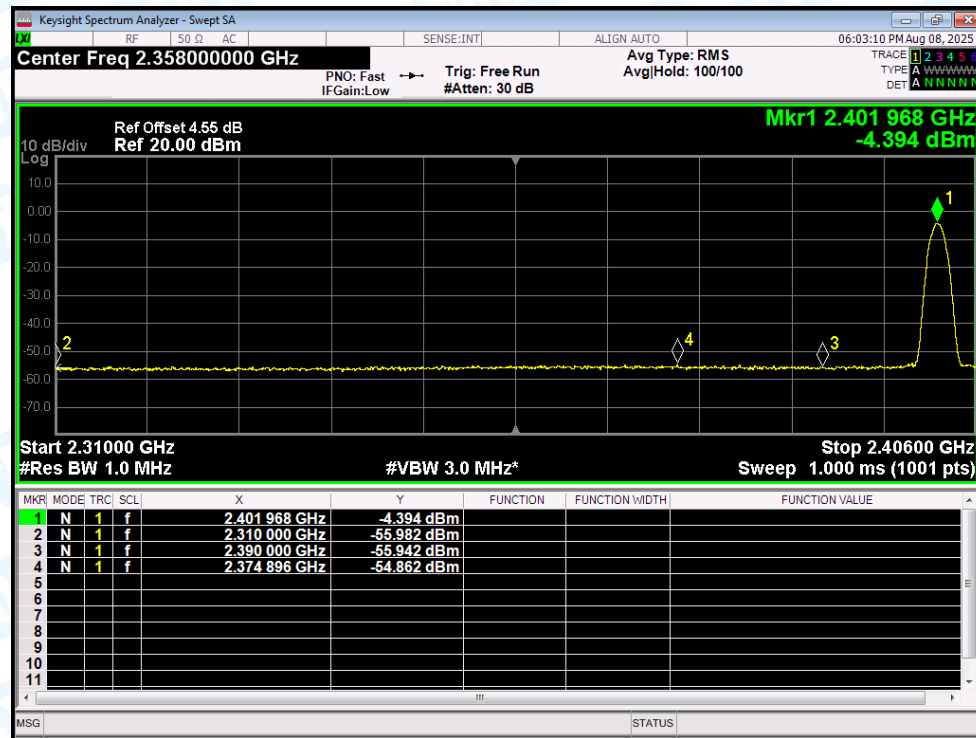
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.51	2.73	-	50.48	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.98	2.73	5.06	47.07	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2380.368	-44.89	2.73	-	53.1	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2374.896	-54.86	2.73	5.06	48.19	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-48.04	2.73	-	49.95	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.94	2.73	5.06	47.11	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.73	2.73	-	51.26	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.03	2.73	5.06	48.02	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.584	-39.32	2.73	-	58.67	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.16	-54.19	2.73	5.06	48.86	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.54	2.73	-	50.45	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-56.04	2.73	5.06	47.01	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.36	2.73	-	49.63	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.28	2.73	4.95	46.66	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2360.592	-44.23	2.73	-	53.76	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2365.008	-54.74	2.73	4.95	48.2	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-48.39	2.73	-	49.6	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.38	2.73	4.95	46.56	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-40.54	2.73	-	57.45	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.11	2.73	4.95	47.83	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.512	-40.54	2.73	-	57.45	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2493.592	-54.35	2.73	4.95	48.59	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.03	2.73	-	50.96	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.93	2.73	4.95	47.01	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-49.25	2.73	-	48.74	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.87	2.73	4.95	46.07	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2357.616	-44.63	2.73	-	53.36	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2365.68	-54.66	2.73	4.95	48.28	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-48.3	2.73	-	49.69	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.72	2.73	4.95	47.22	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.04	2.73	-	50.95	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.46	2.73	5.06	47.59	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2486.2	-40.73	2.73	-	57.26	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.304	-54.47	2.73	5.06	48.58	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.77	2.73	-	51.22	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.89	2.73	5.06	47.16	Average	54	Pass

Test Graphs

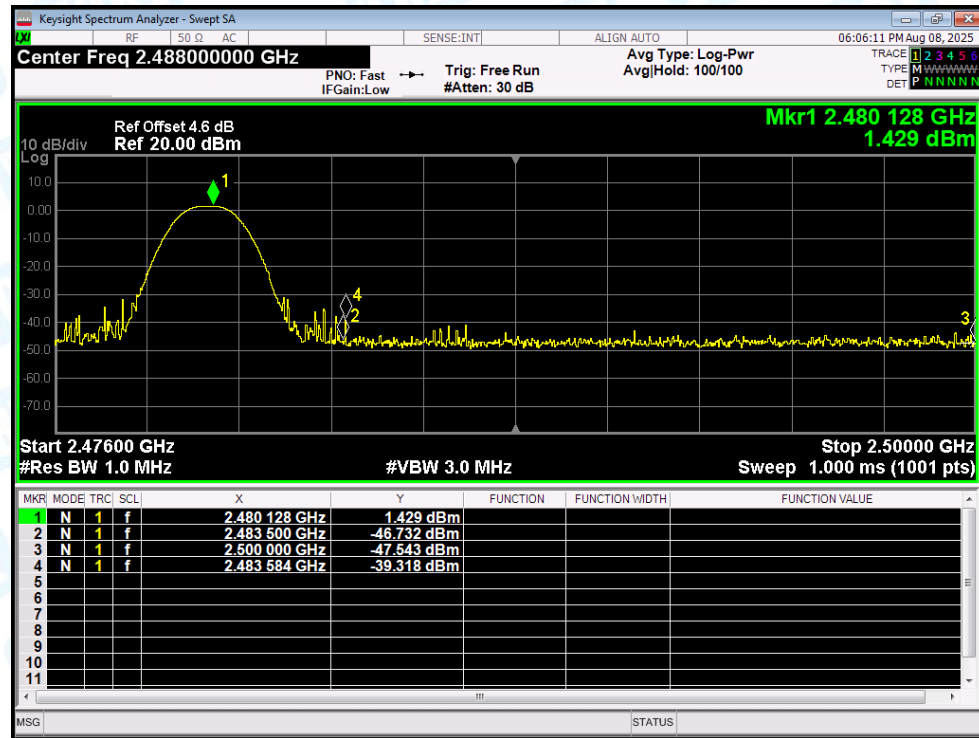
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



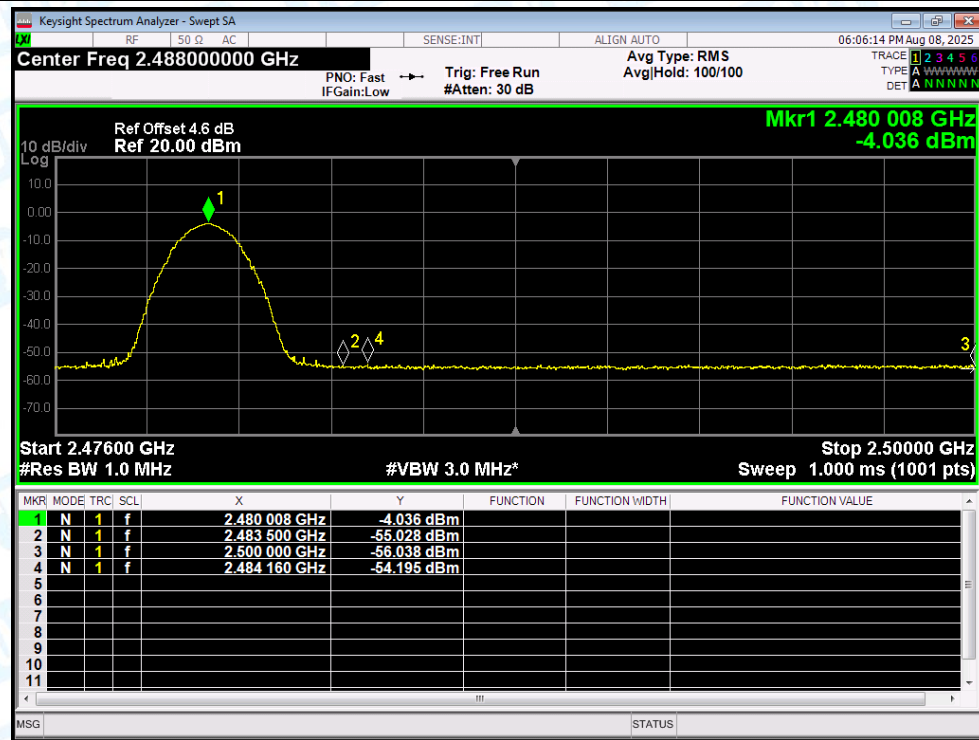
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



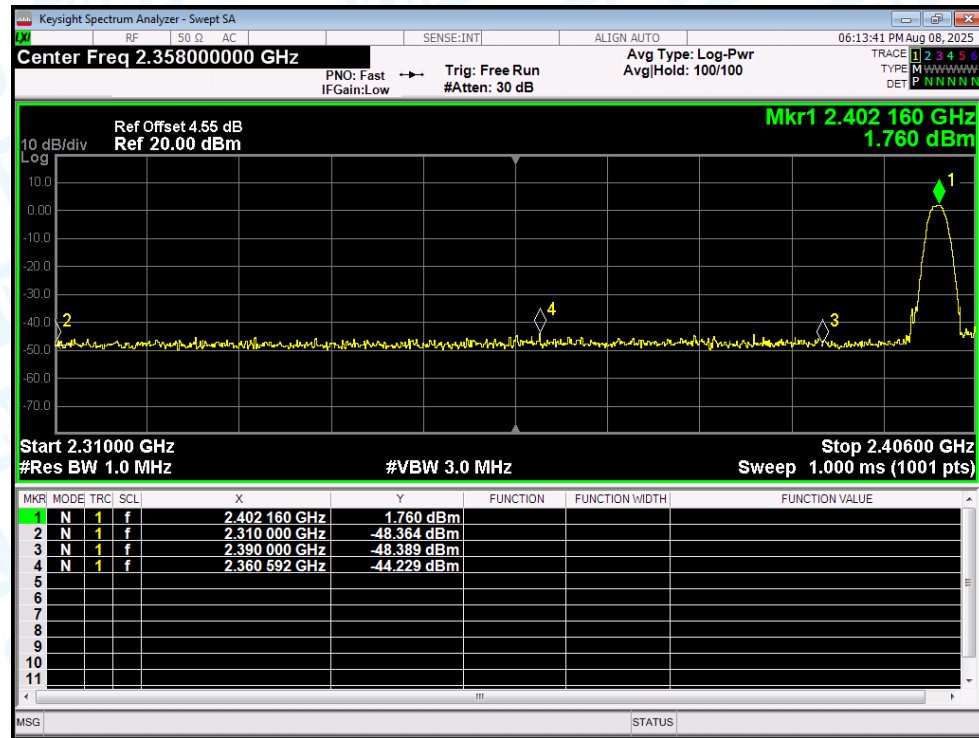
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



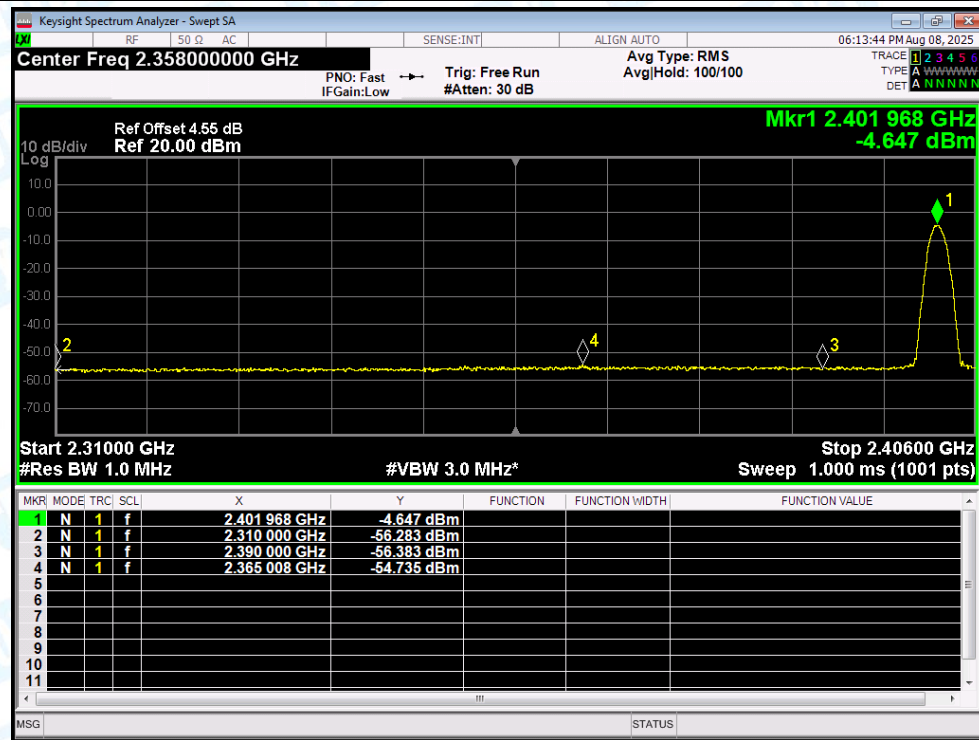
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



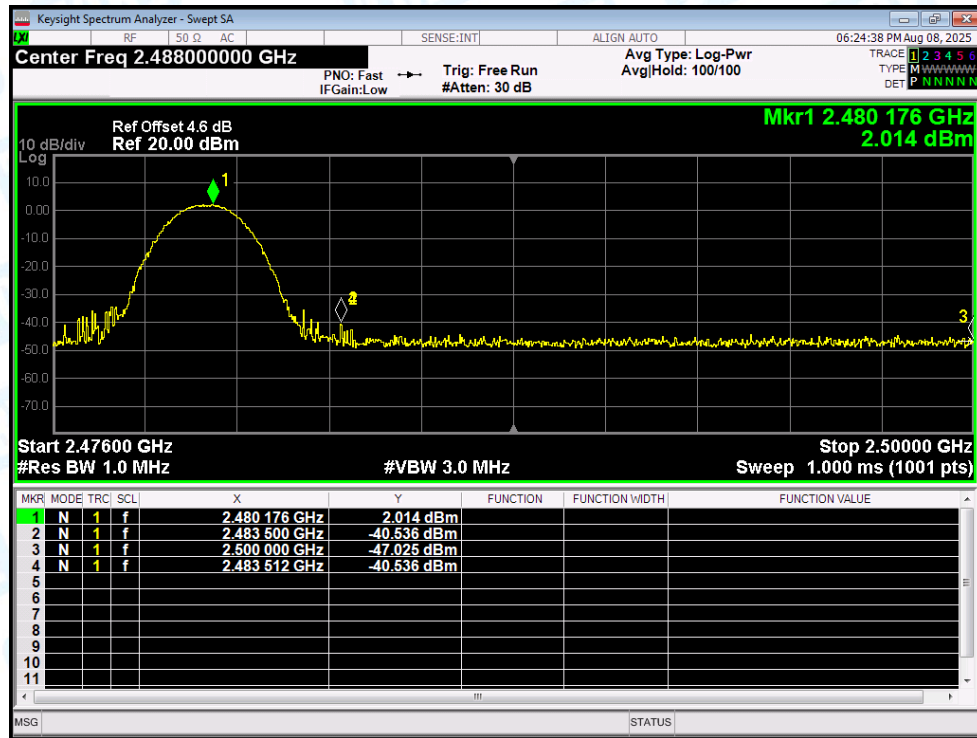
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



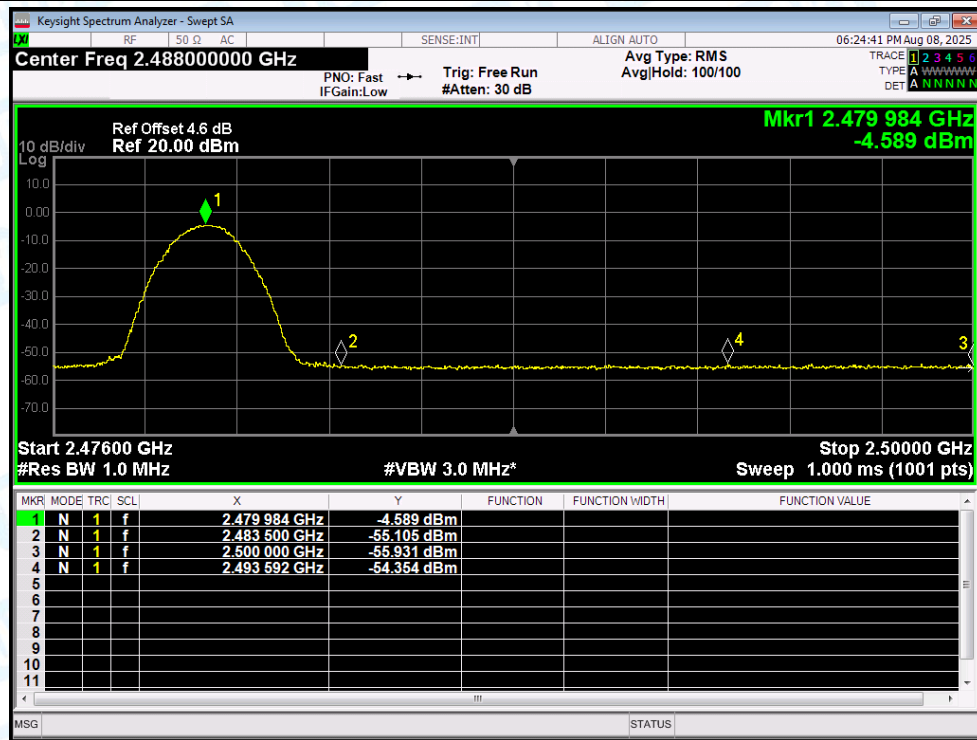
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



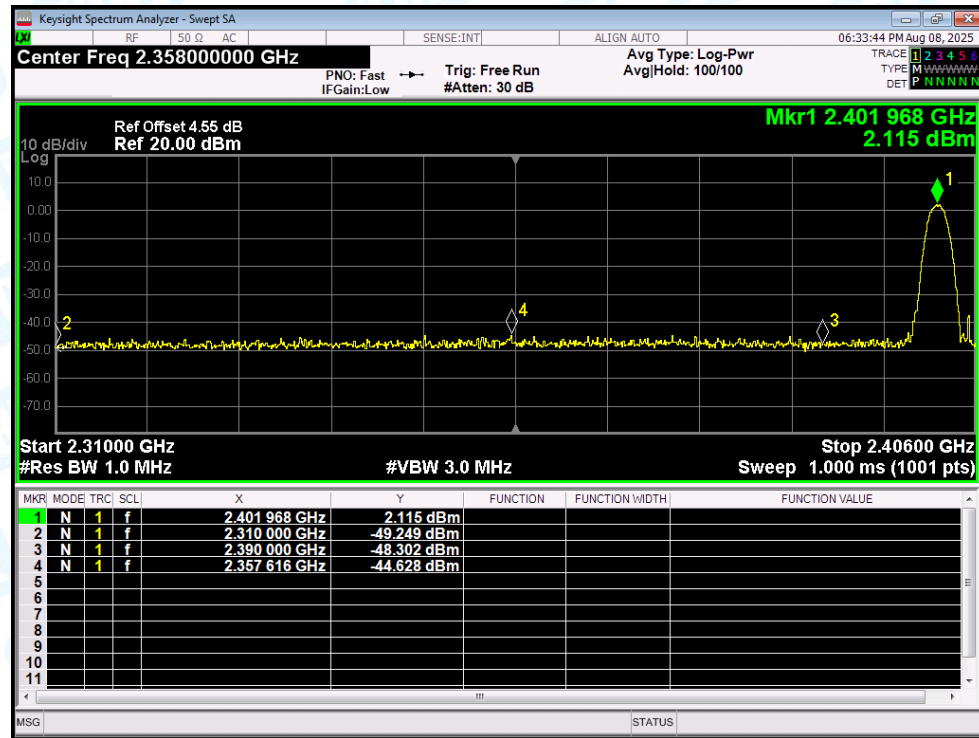
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



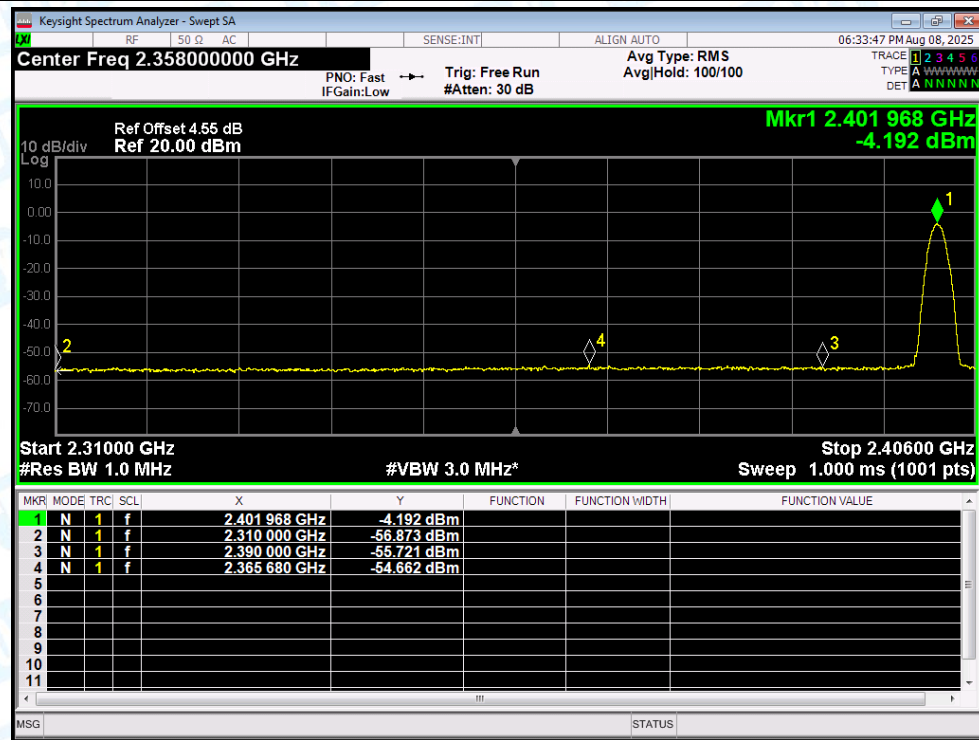
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



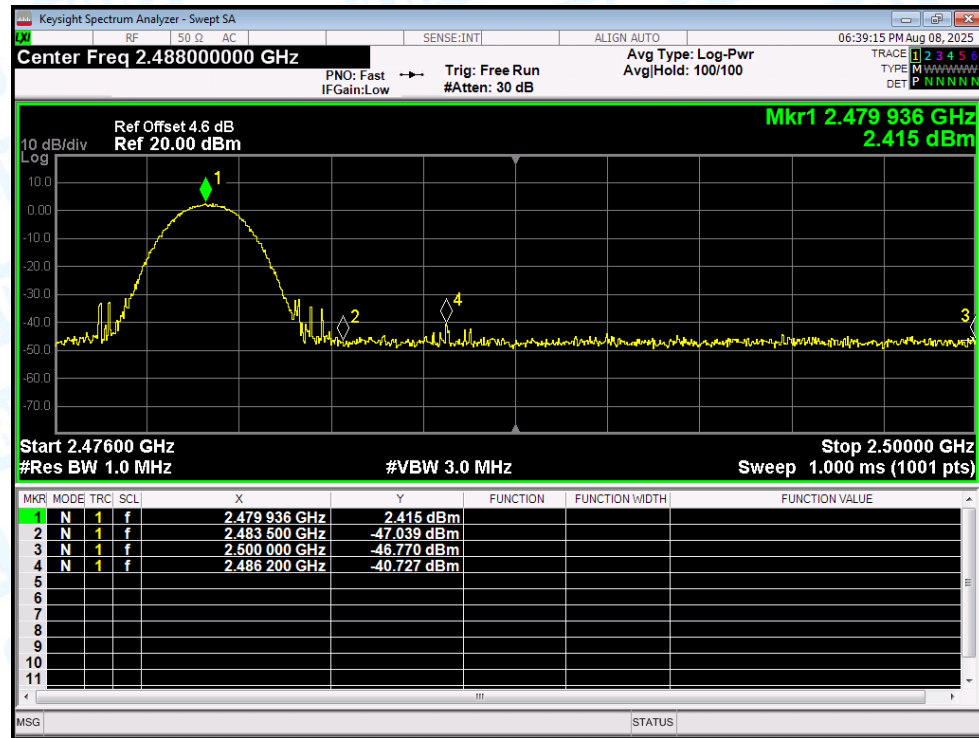
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



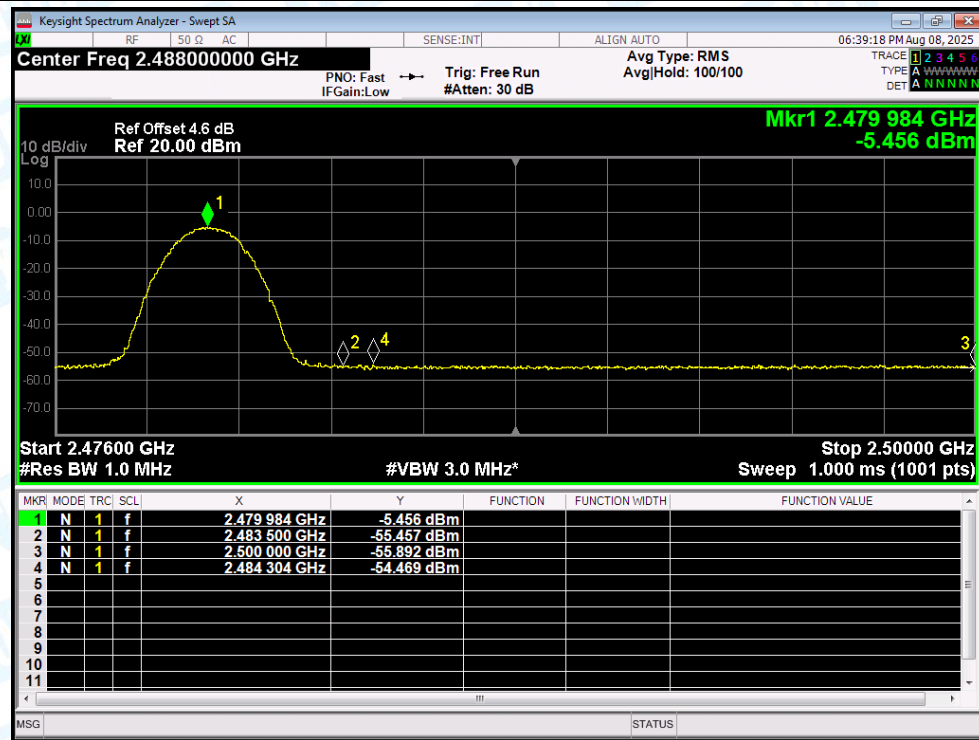
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

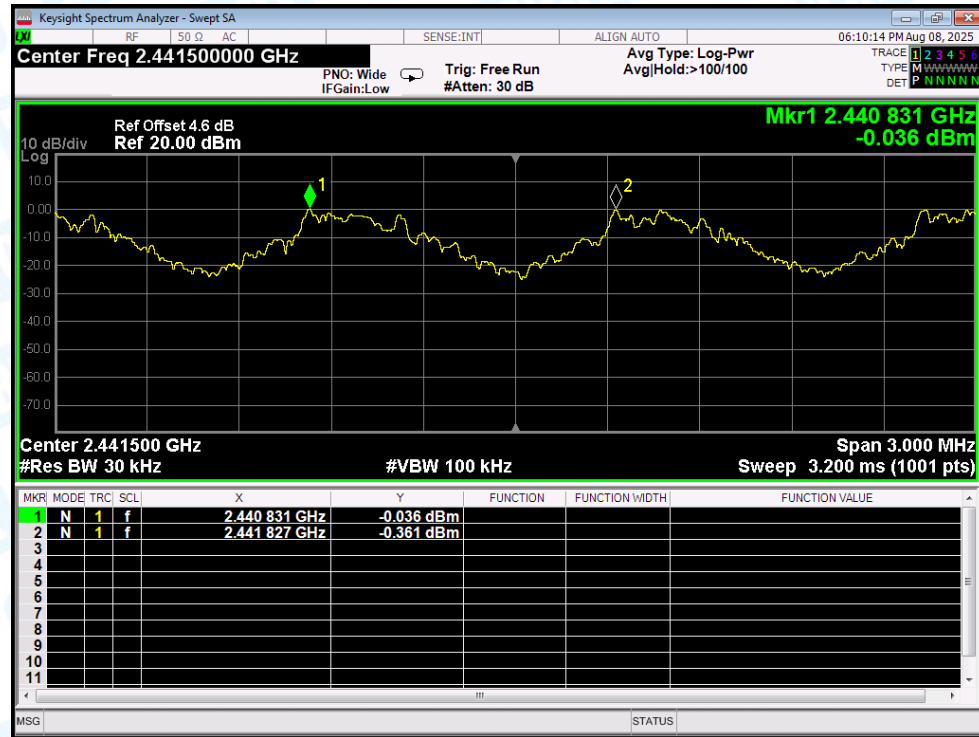


9. Carrier Frequencies Separation

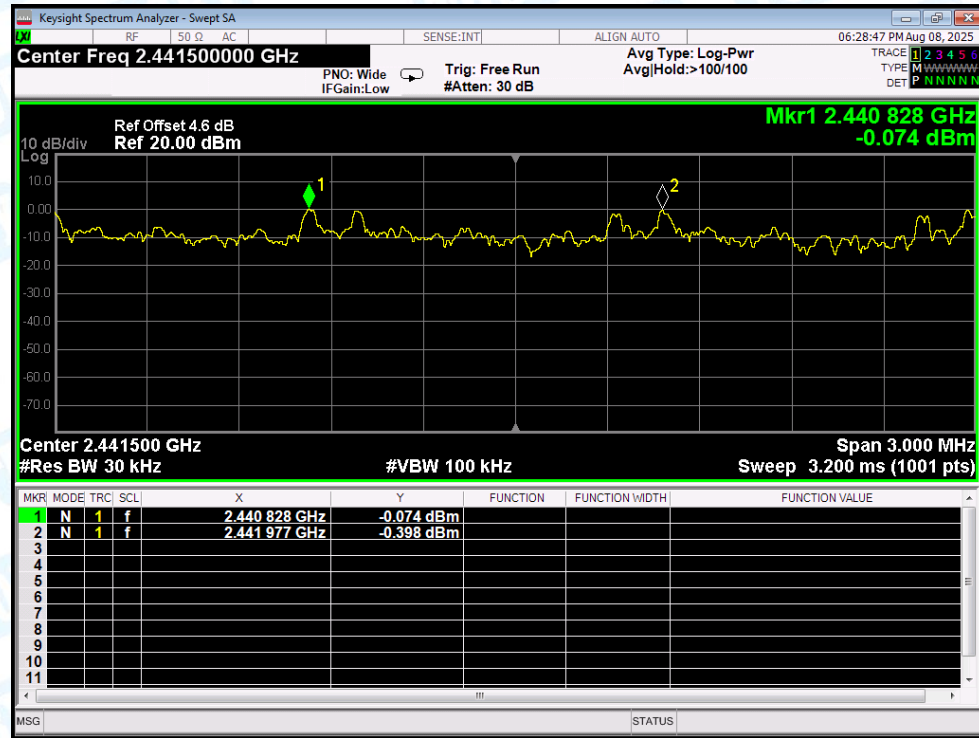
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.831	2441.827	0.996	0.58	Pass
NVNT	2-DH1	Ant1	2440.828	2441.977	1.149	0.84	Pass
NVNT	3-DH1	Ant1	2440.978	2441.986	1.008	0.8	Pass

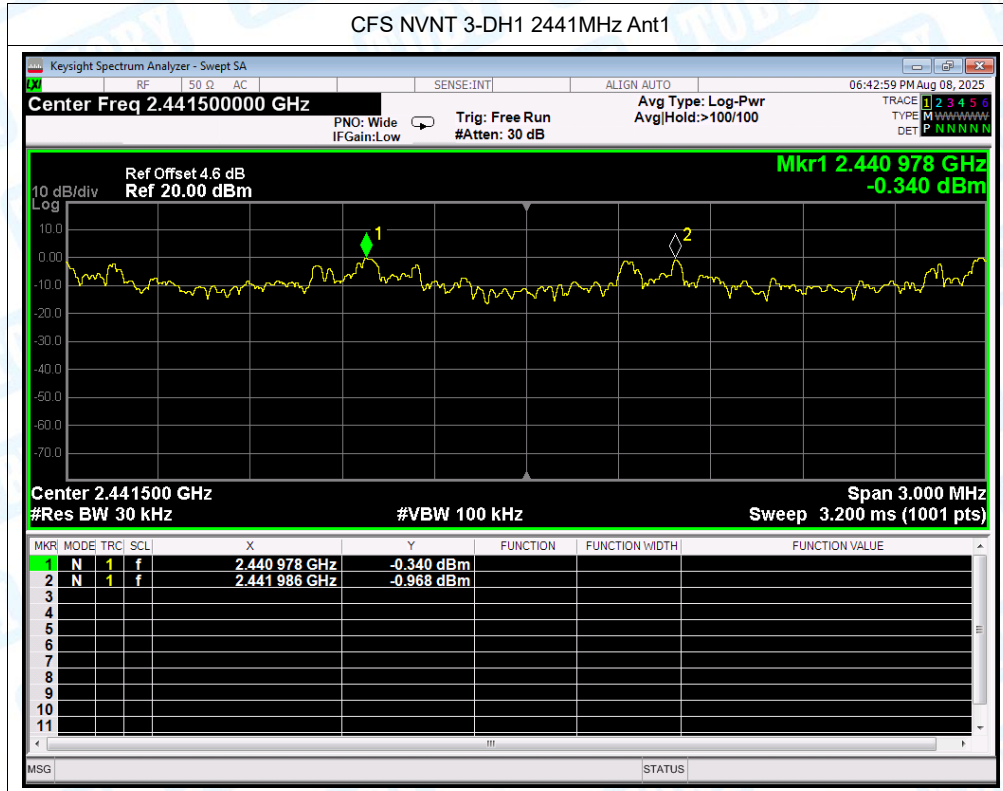
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



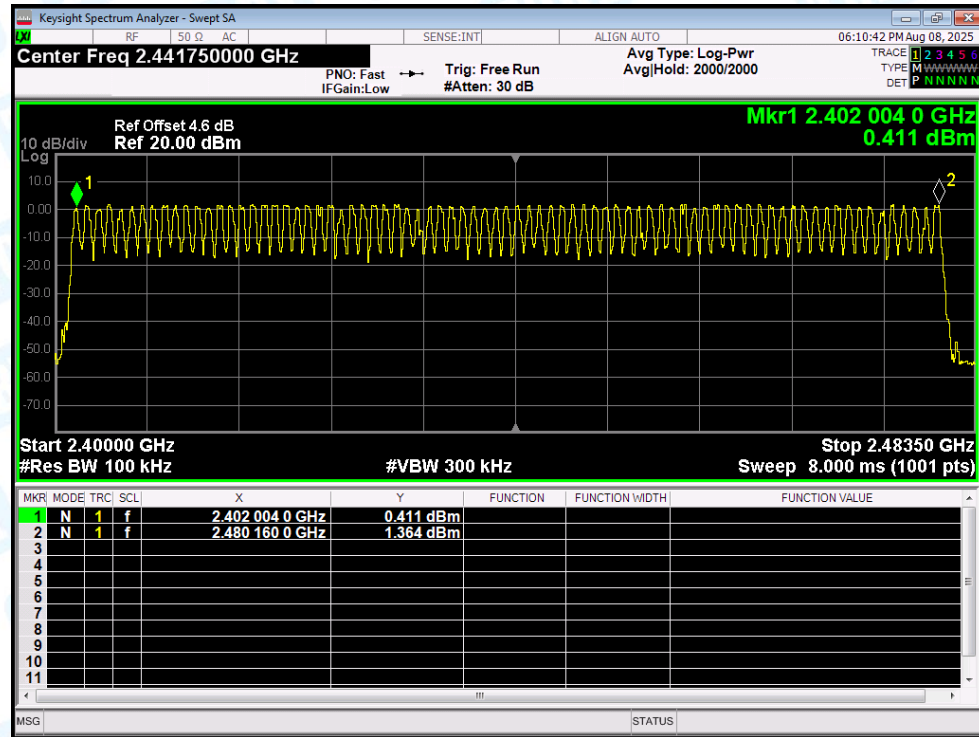


10. Number of Hopping Channel

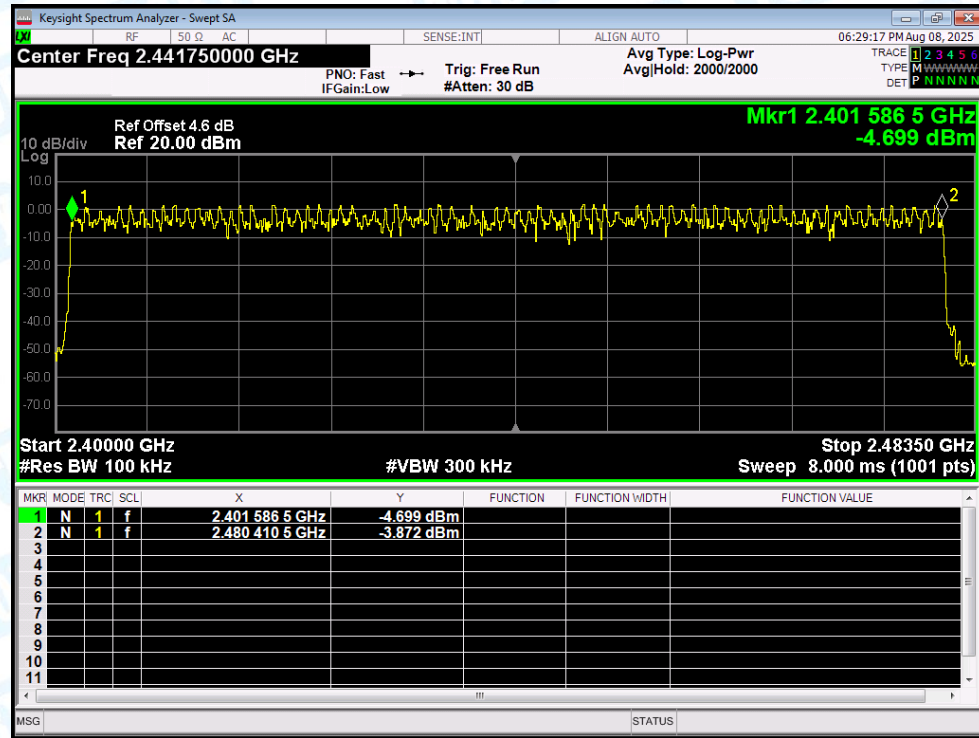
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

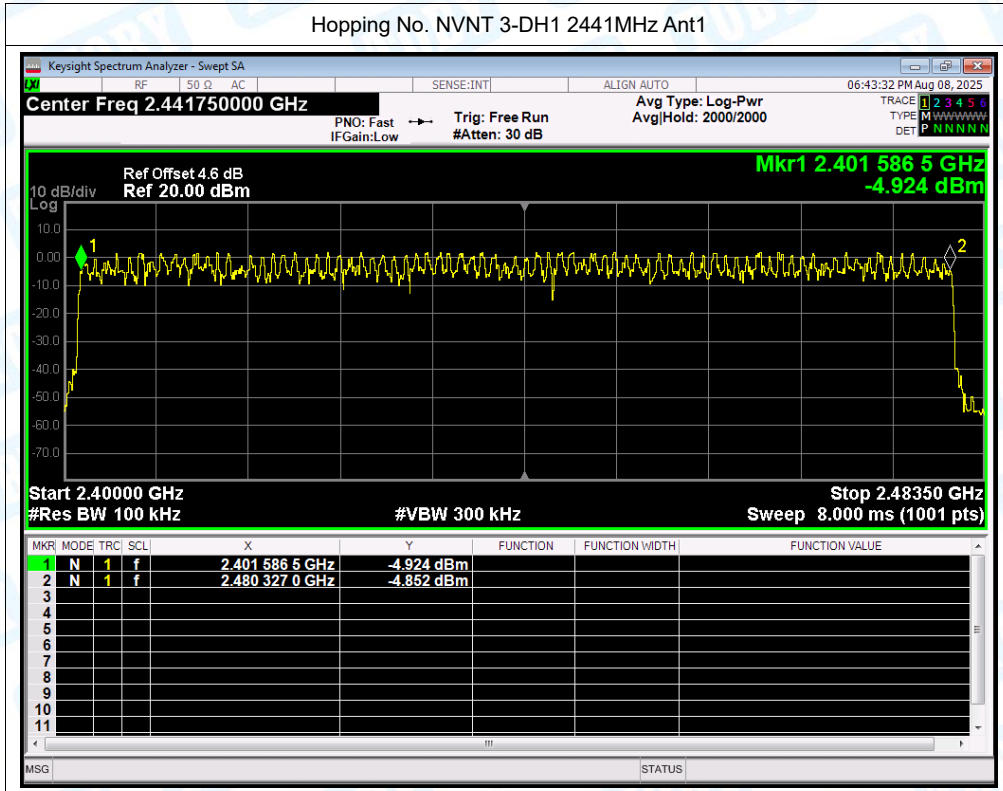
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



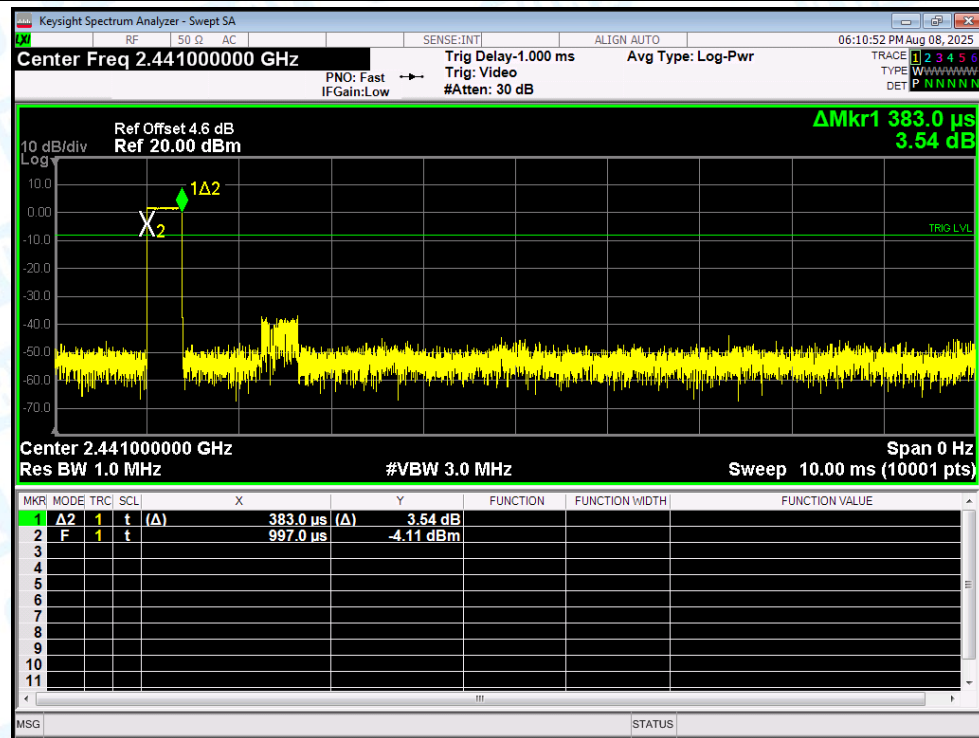


11. Dwell Time

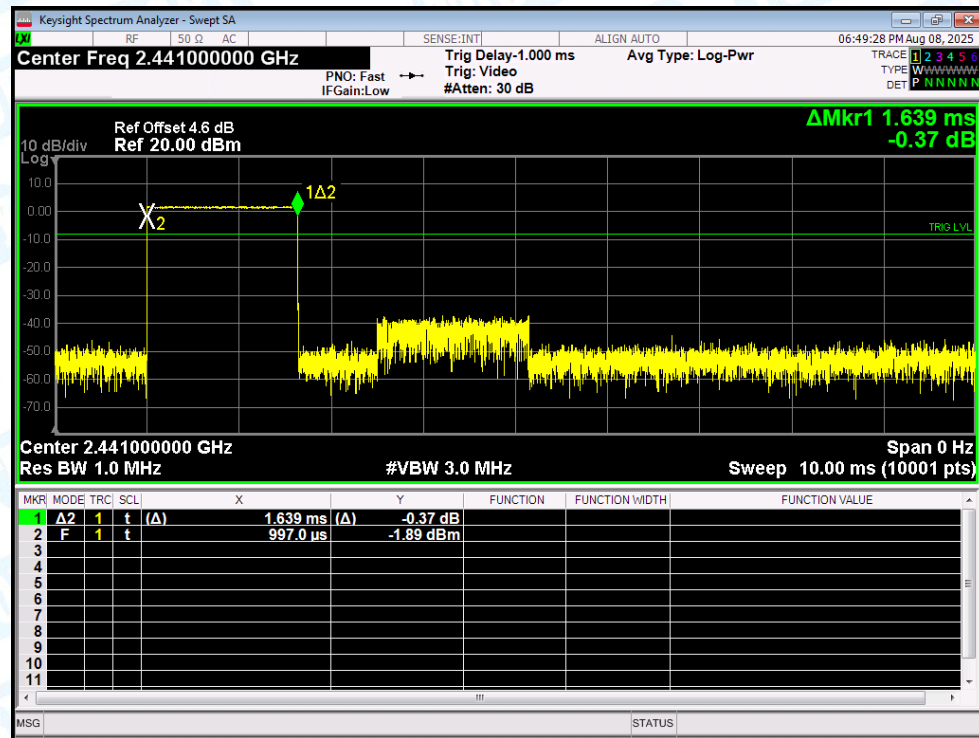
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.892	308.48	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.391	125.12	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.894	308.693	31600	400	Pass

Test Graphs

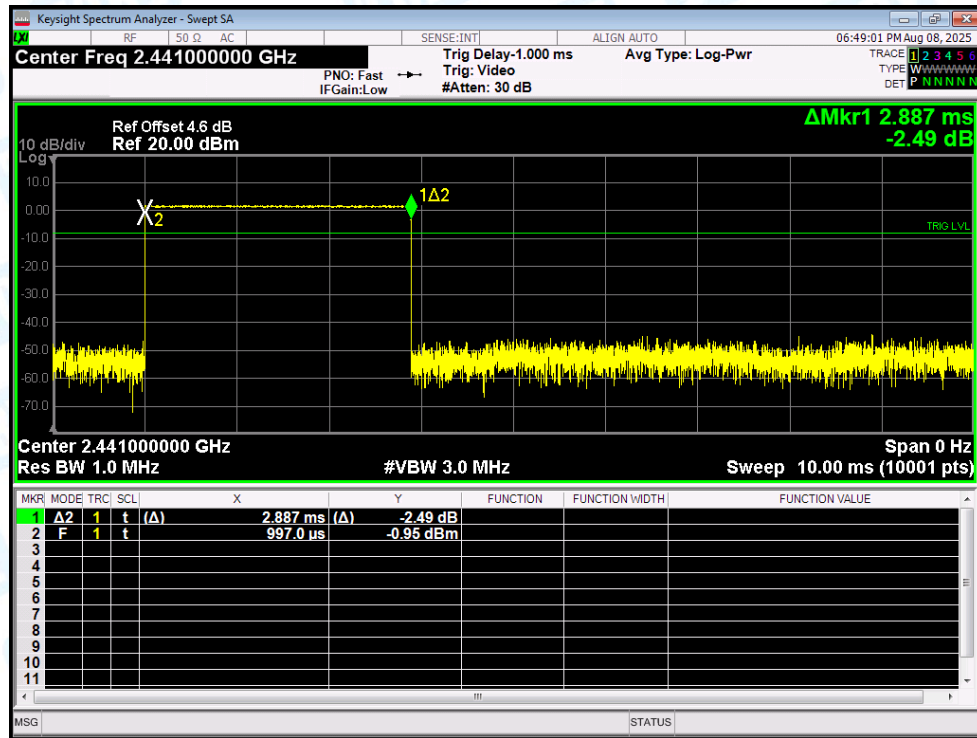
Dwell NVNT 1-DH1 2441MHz Ant1



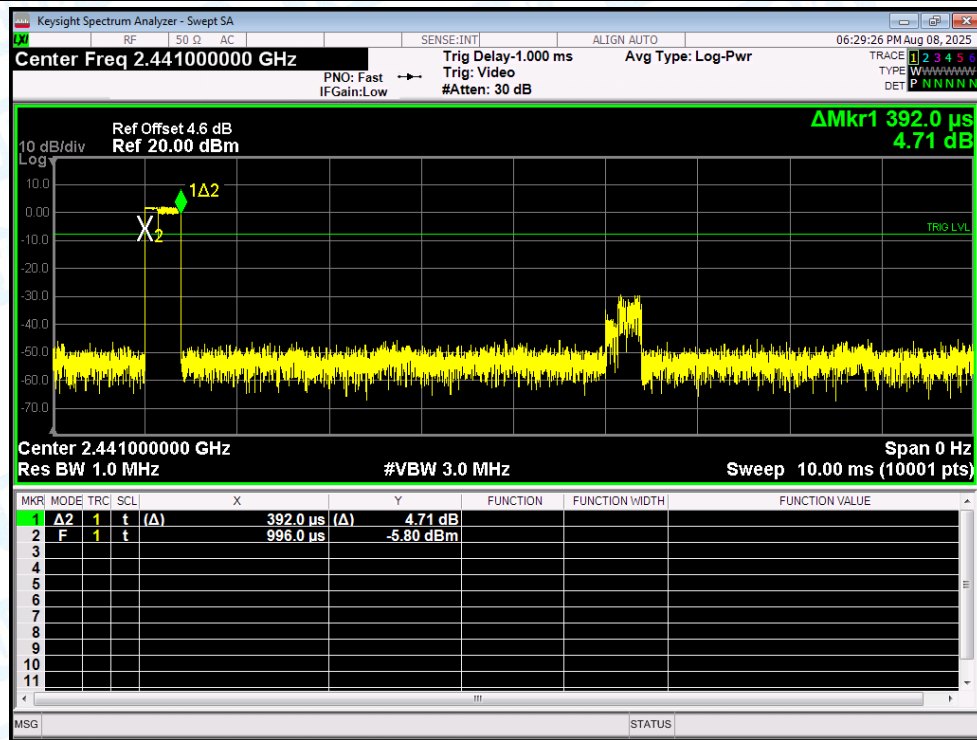
Dwell NVNT 1-DH3 2441MHz Ant1



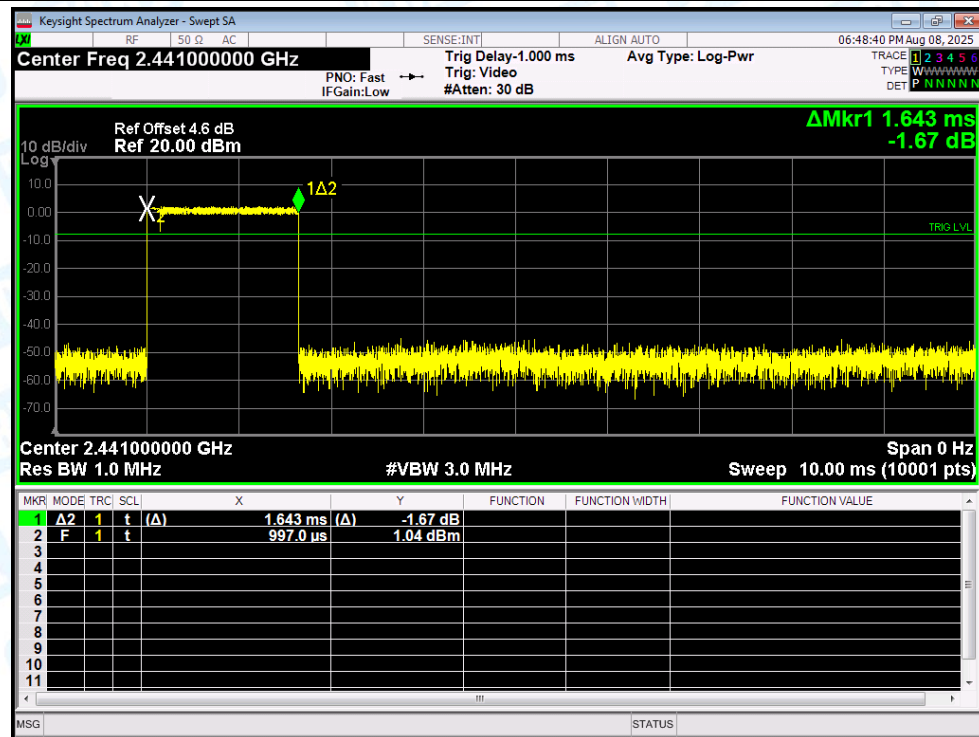
Dwell NVNT 1-DH5 2441MHz Ant1



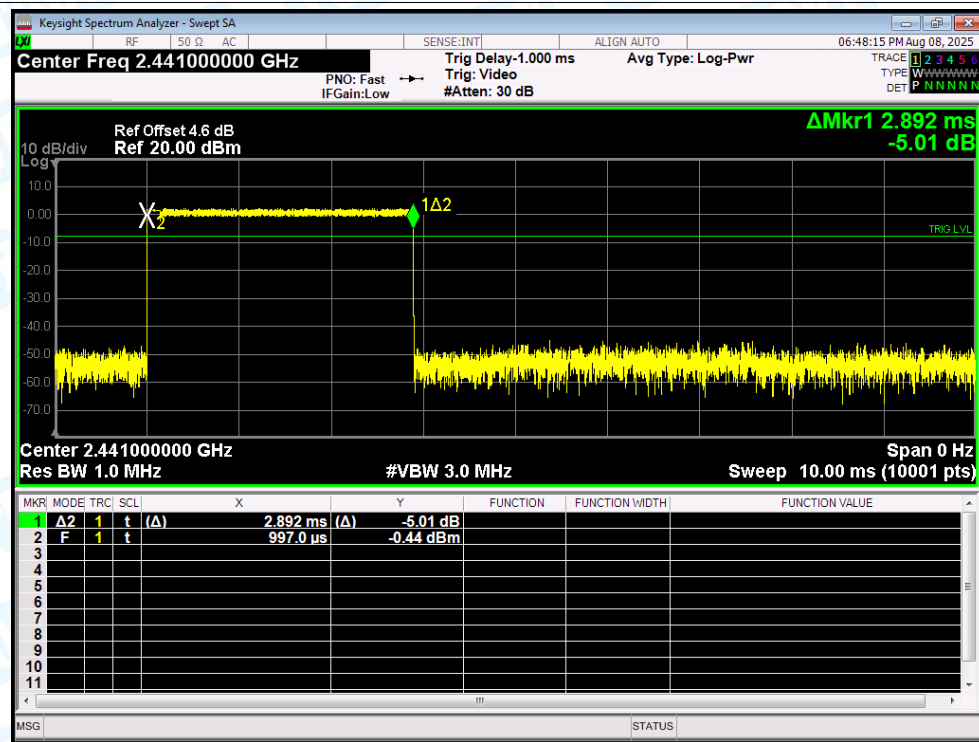
Dwell NVNT 2-DH1 2441MHz Ant1



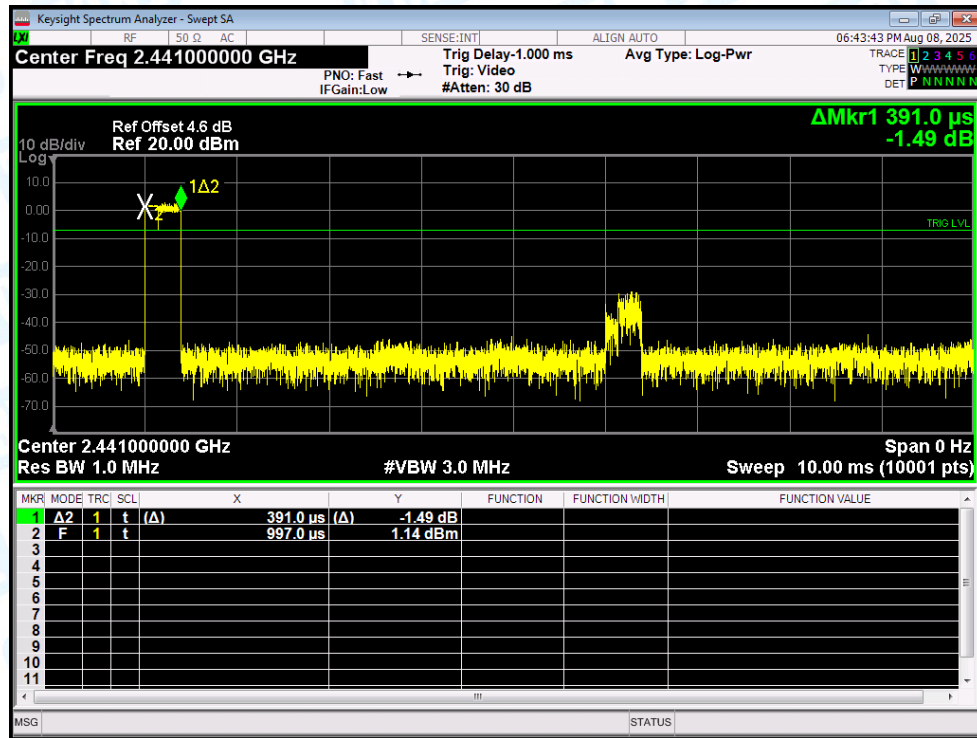
Dwell NVNT 2-DH3 2441MHz Ant1



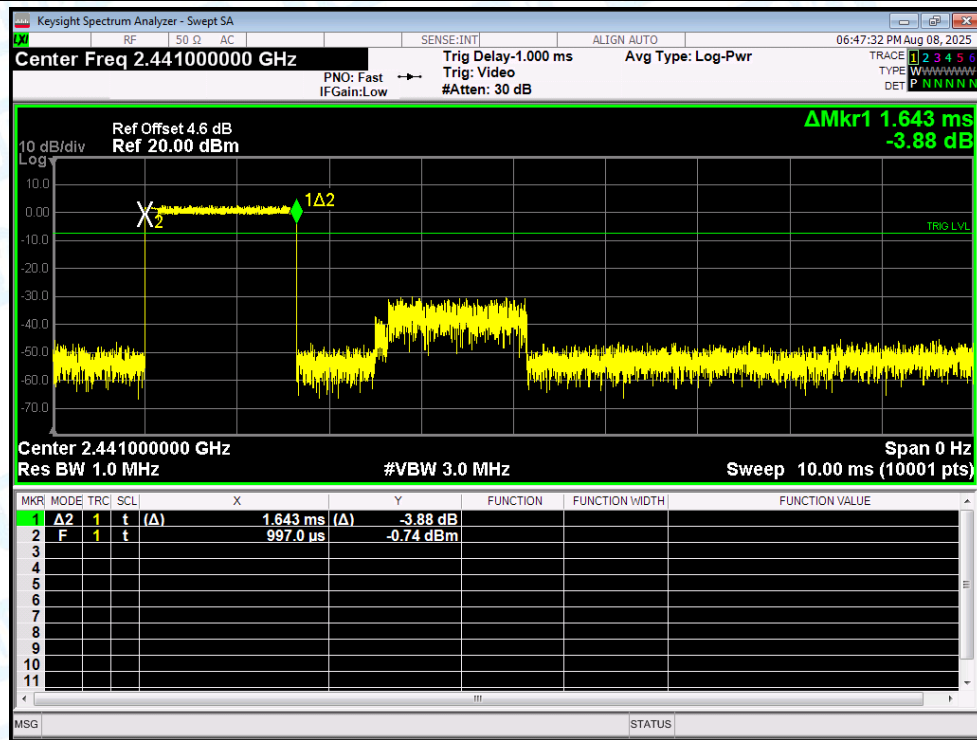
Dwell NVNT 2-DH5 2441MHz Ant1

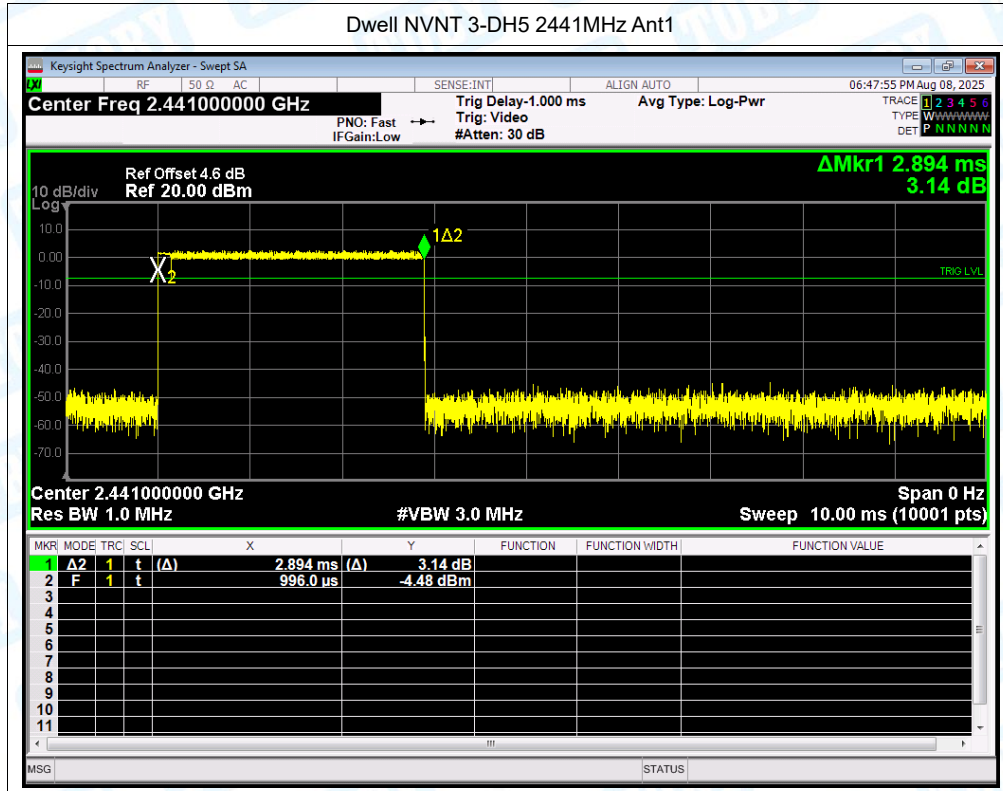


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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