

RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	Mixx Revival 65 Stereo Vinyl Record Player
Test Model:	MIXX Revival 65
Sample ID:	HC-C-202408-0187-02-01
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	52.6%
Test Voltage:	DC 5.8V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202408-0187-1 The report only show the worst case data.	

Contents

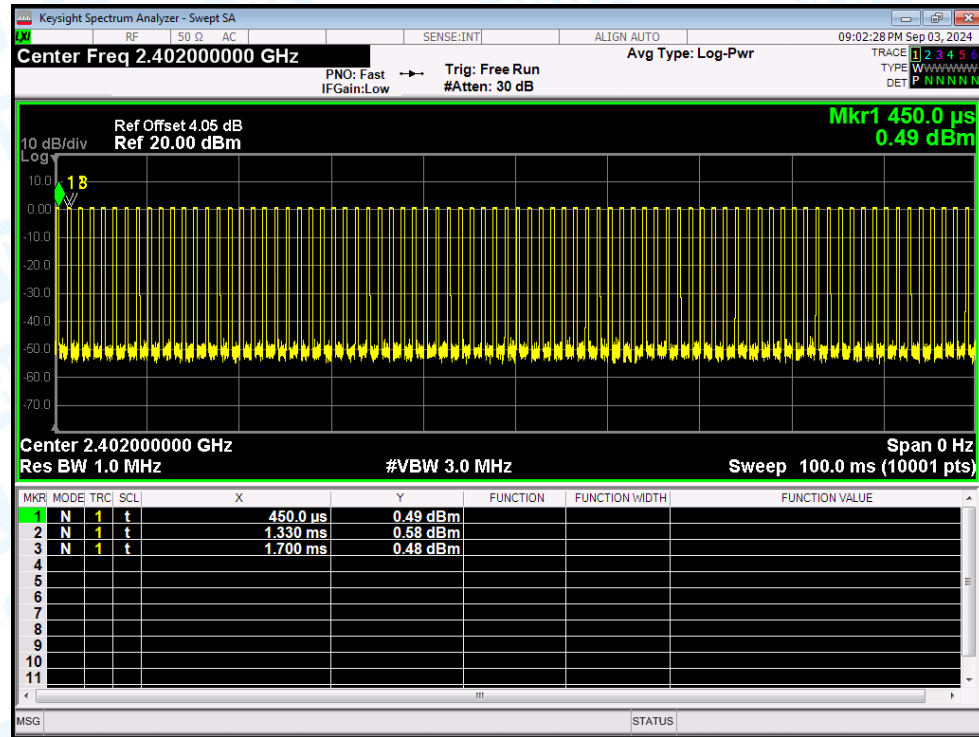
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1. Duty Cycle

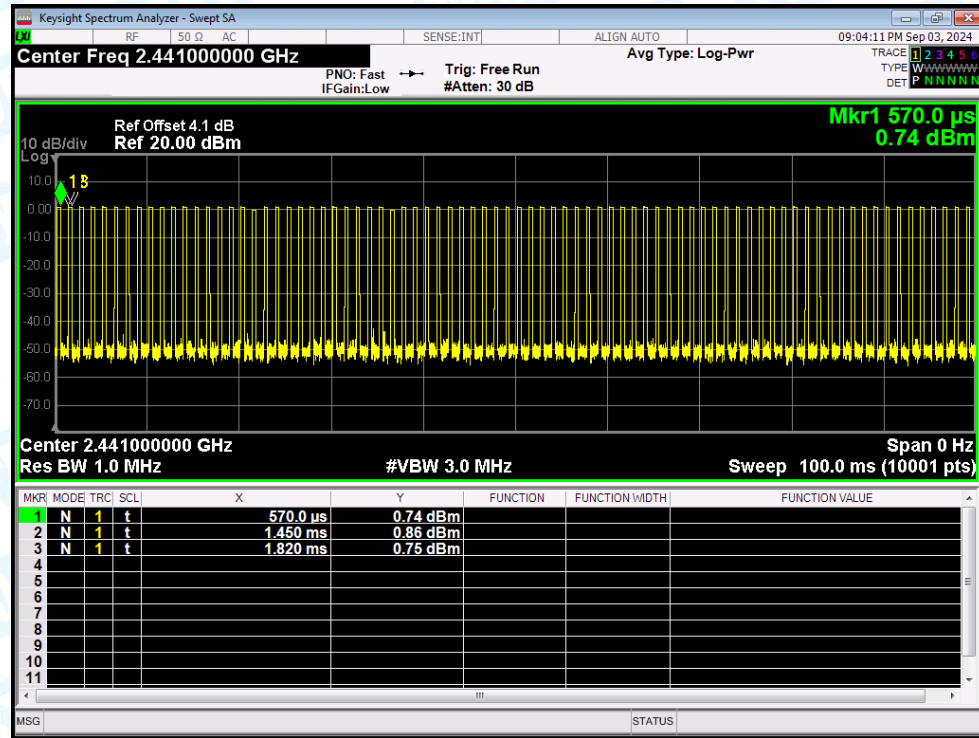
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	29.6	5.29	2.7
NVNT	1-DH1	2441	Ant1	29.6	5.29	2.7
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

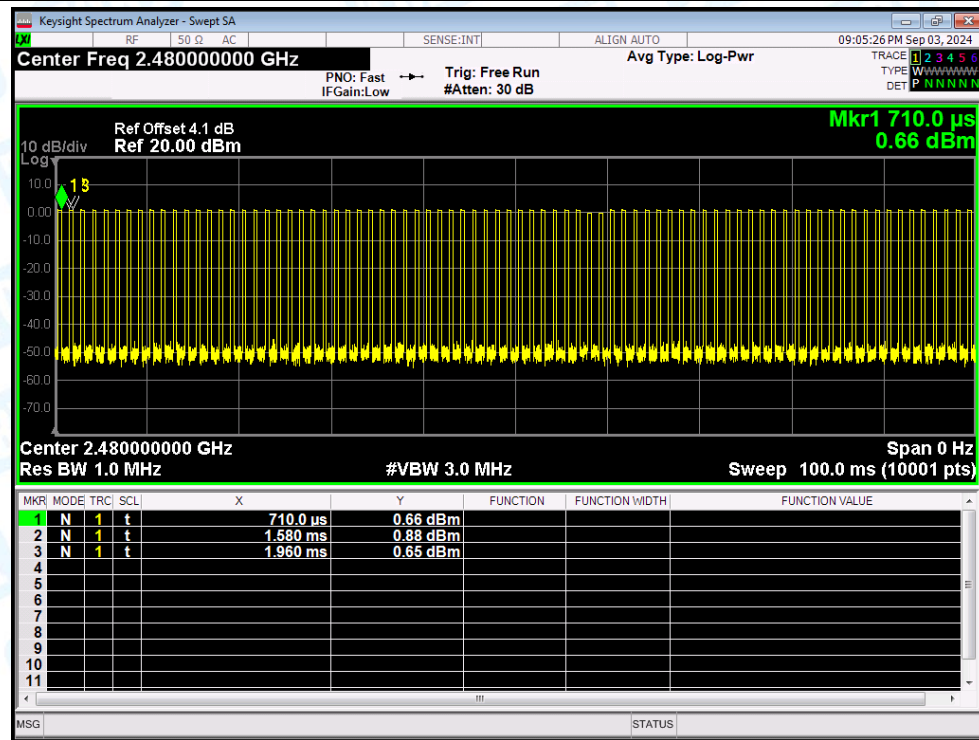
Duty Cycle NVNT 1-DH1 2402MHz Ant1



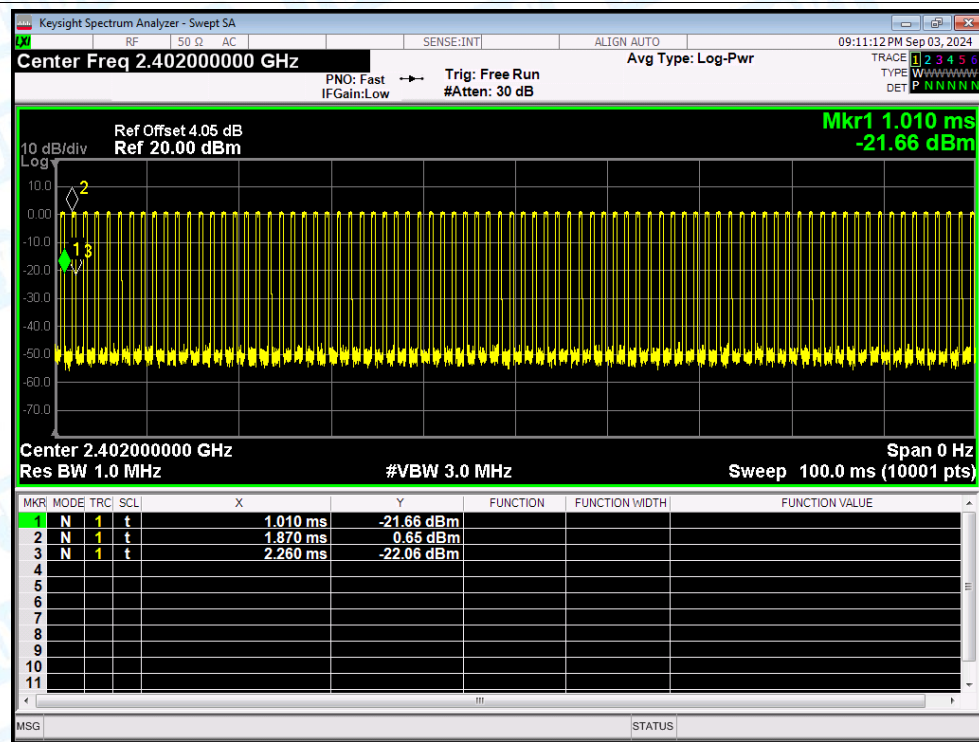
Duty Cycle NVNT 1-DH1 2441MHz Ant1



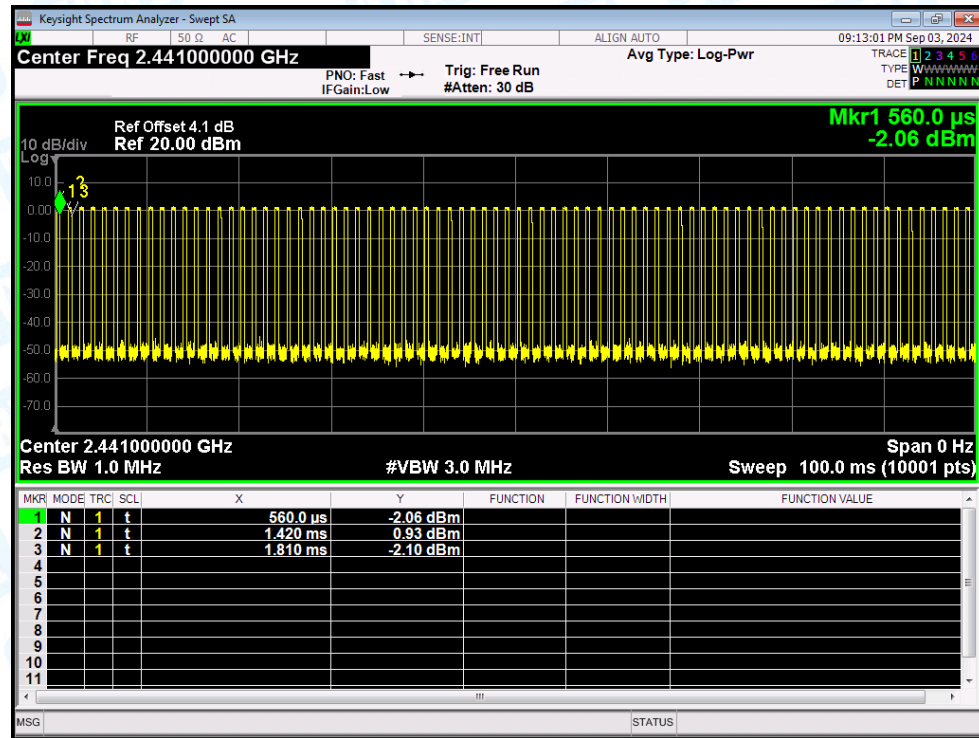
Duty Cycle NVNT 1-DH1 2480MHz Ant1



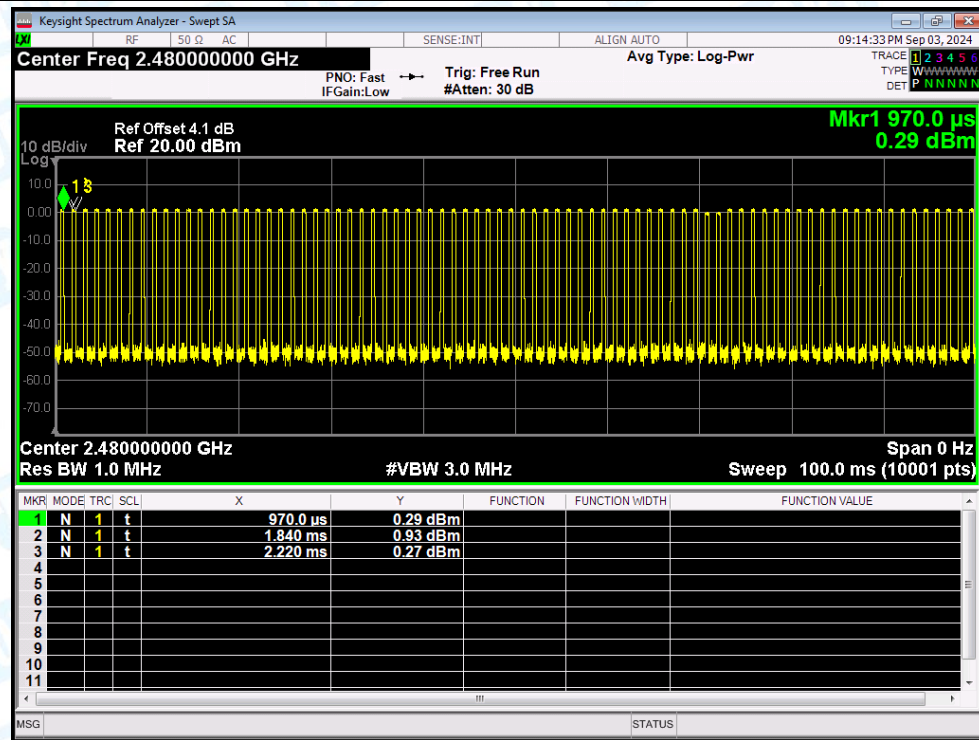
Duty Cycle NVNT 2-DH1 2402MHz Ant1



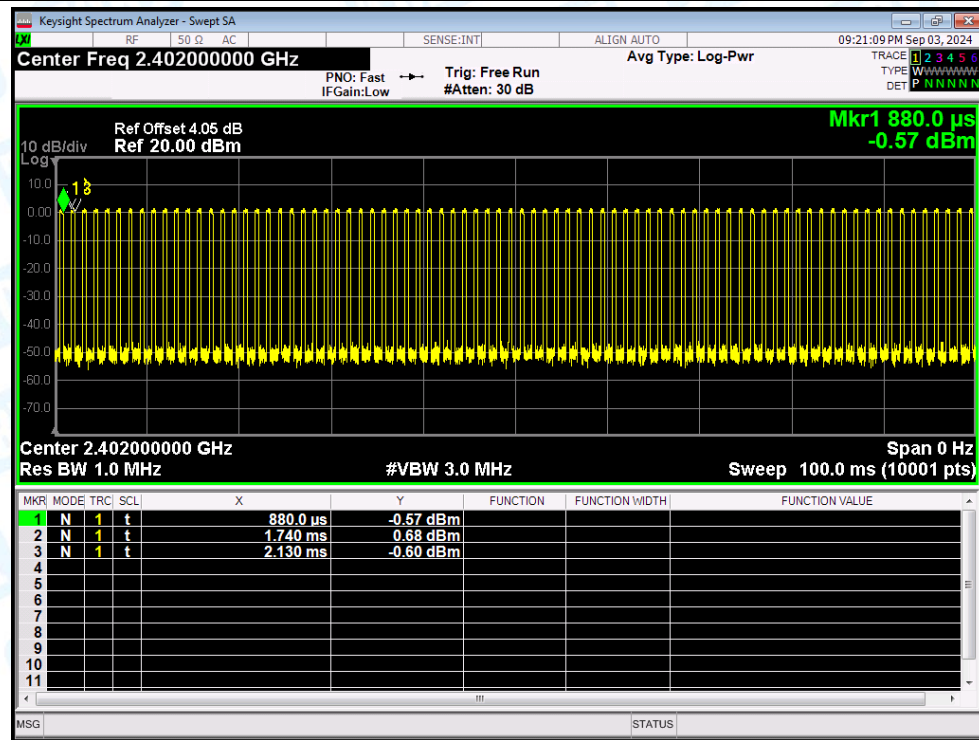
Duty Cycle NVNT 2-DH1 2441MHz Ant1



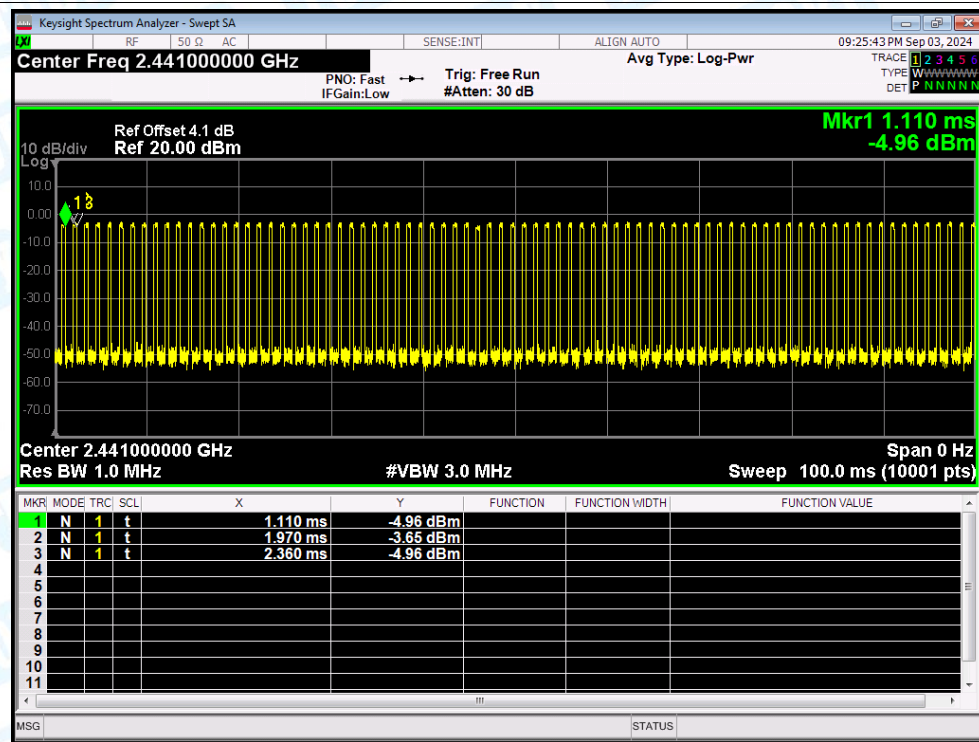
Duty Cycle NVNT 2-DH1 2480MHz Ant1

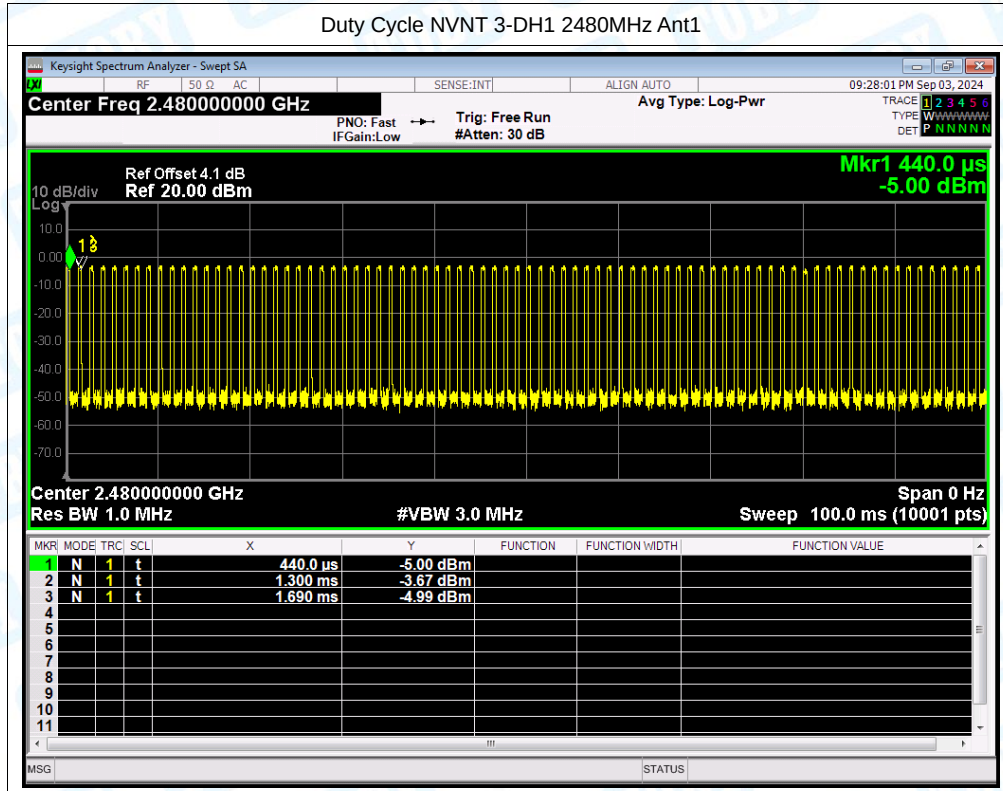


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



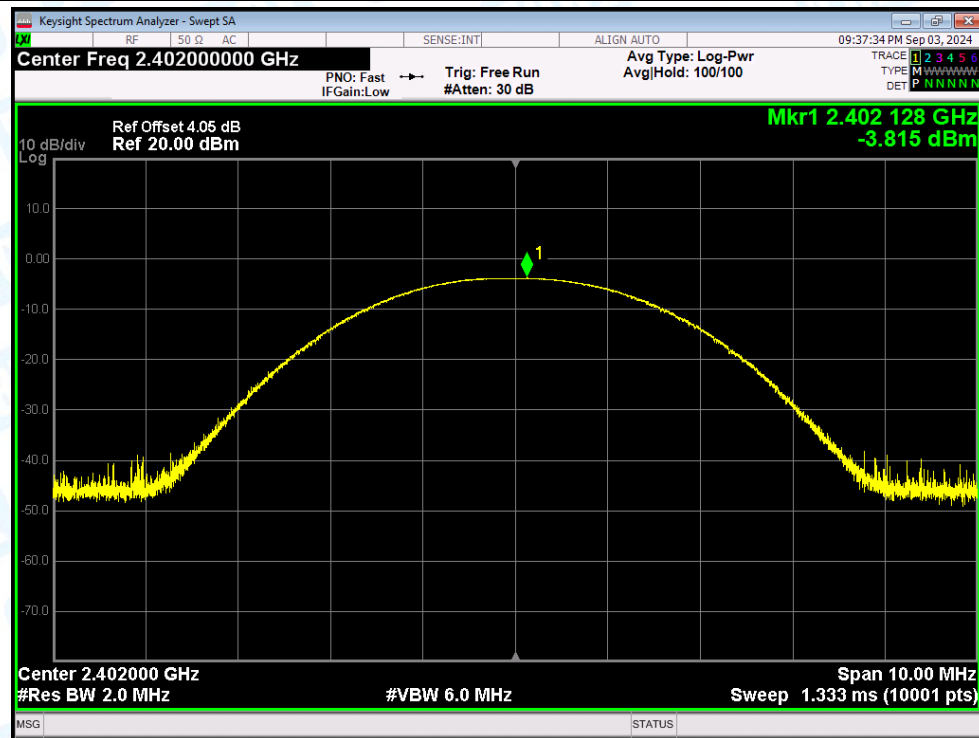


2. Maximum Conducted Output Power

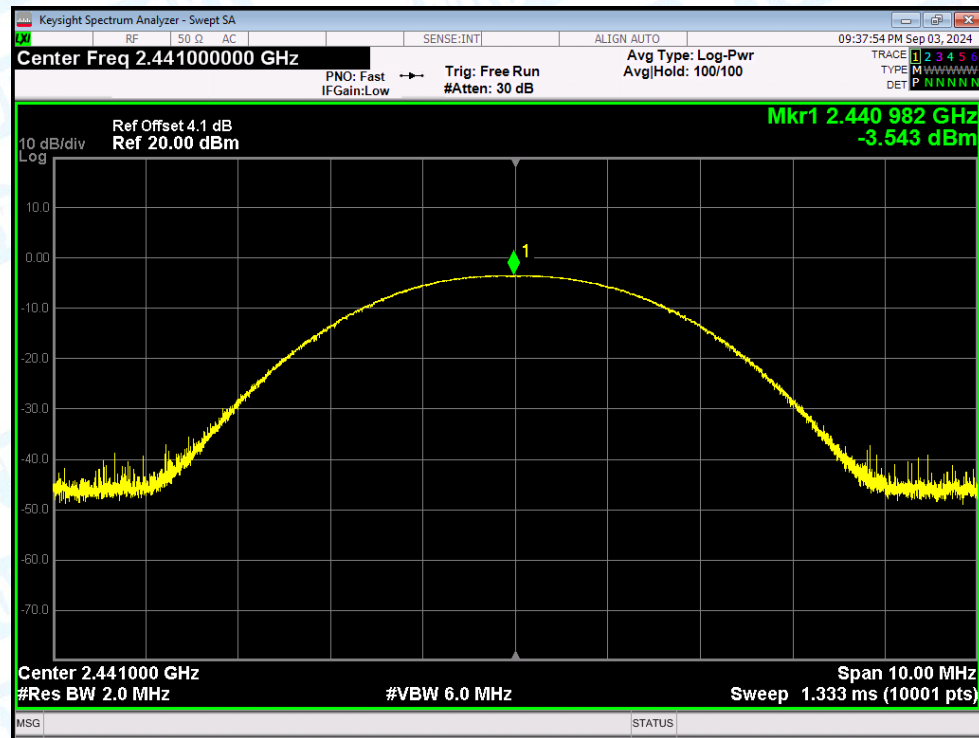
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-3.815	21	Pass
NVNT	1-DH1	2441	Ant1	-3.543	21	Pass
NVNT	1-DH1	2480	Ant1	-3.546	21	Pass
NVNT	2-DH1	2402	Ant1	-3.141	21	Pass
NVNT	2-DH1	2441	Ant1	-2.857	21	Pass
NVNT	2-DH1	2480	Ant1	-2.868	21	Pass
NVNT	3-DH1	2402	Ant1	-2.685	21	Pass
NVNT	3-DH1	2441	Ant1	-2.478	21	Pass
NVNT	3-DH1	2480	Ant1	-2.525	21	Pass

Test Graphs

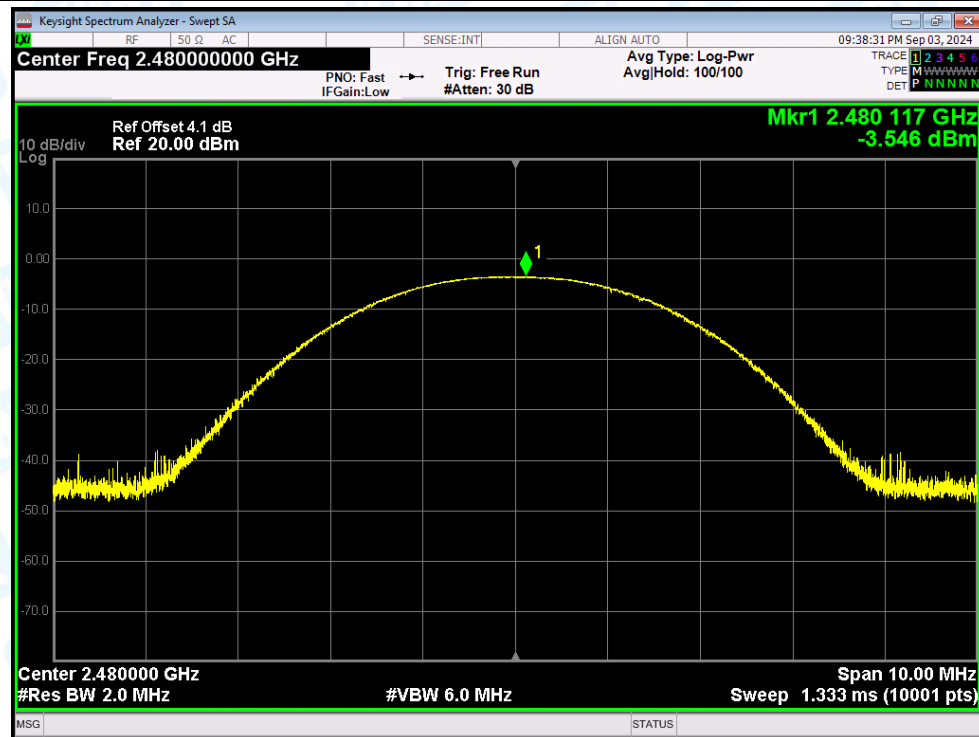
Power NVNT 1-DH1 2402MHz Ant1



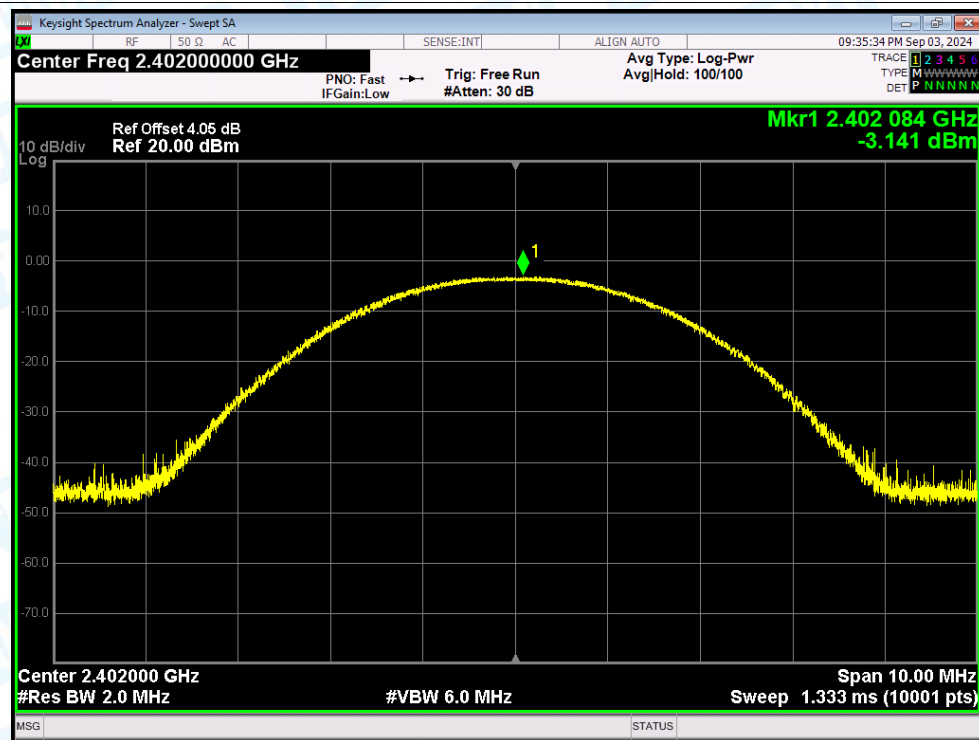
Power NVNT 1-DH1 2441MHz Ant1



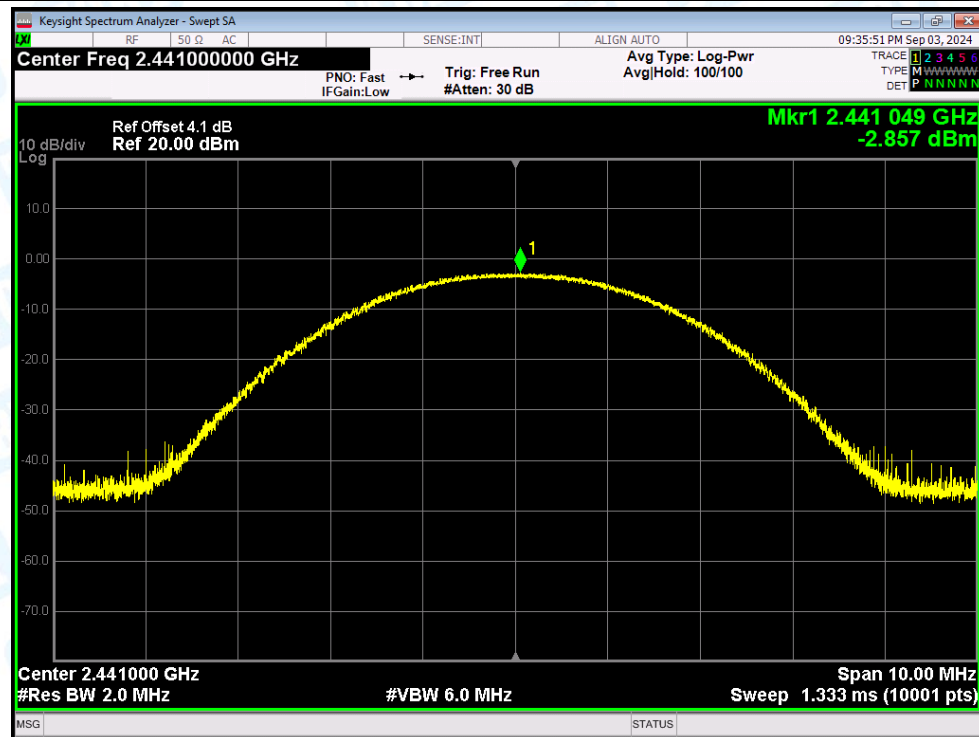
Power NVNT 1-DH1 2480MHz Ant1



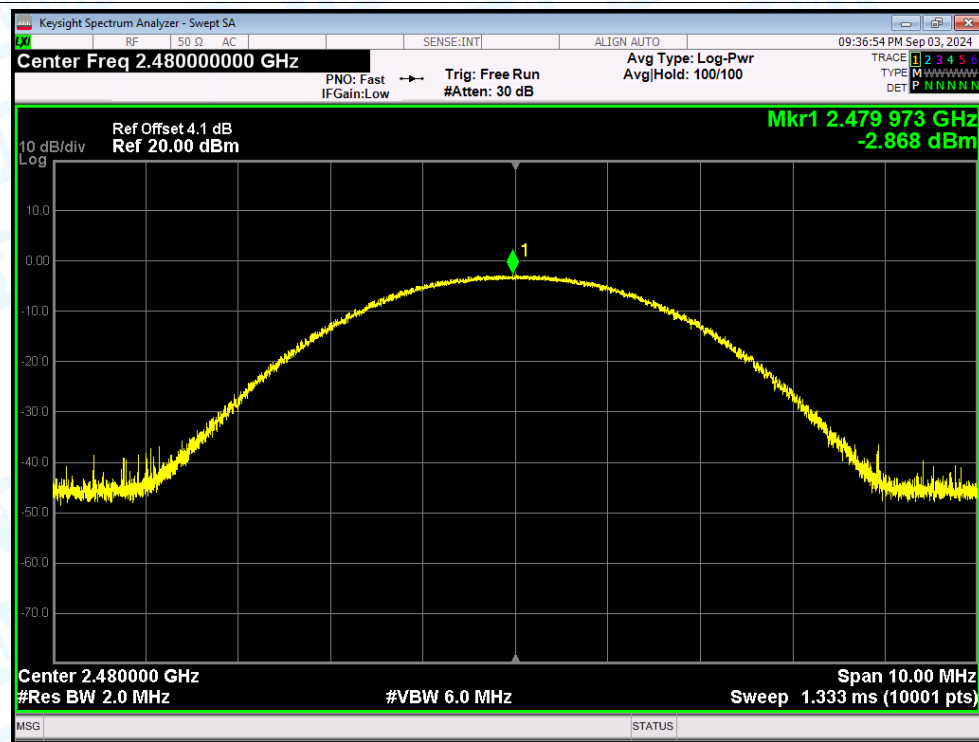
Power NVNT 2-DH1 2402MHz Ant1



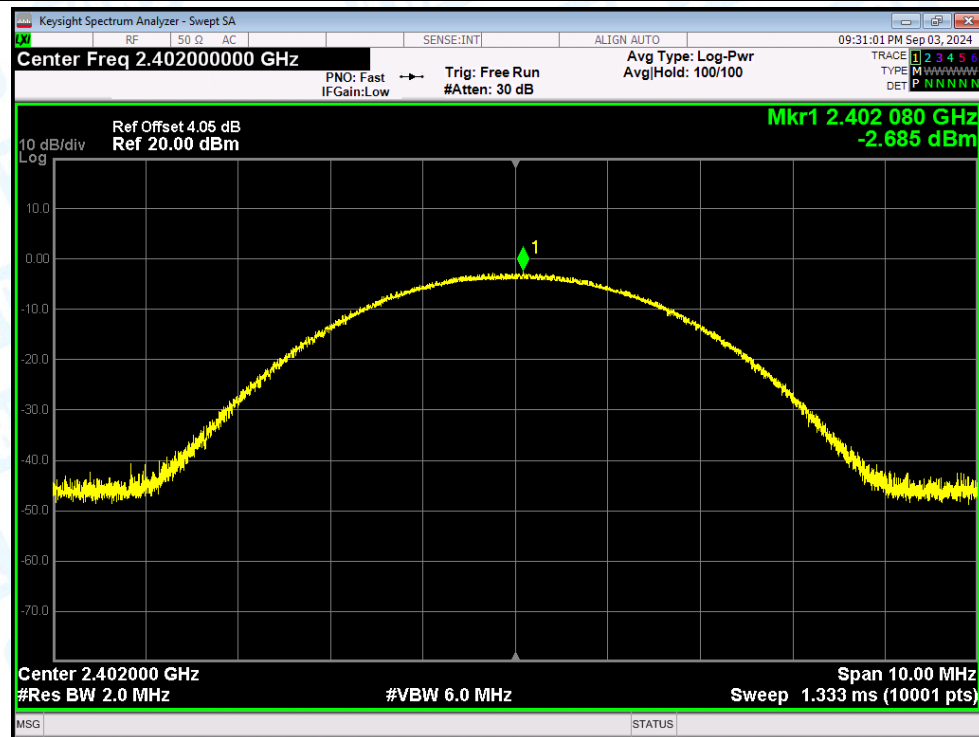
Power NVNT 2-DH1 2441MHz Ant1



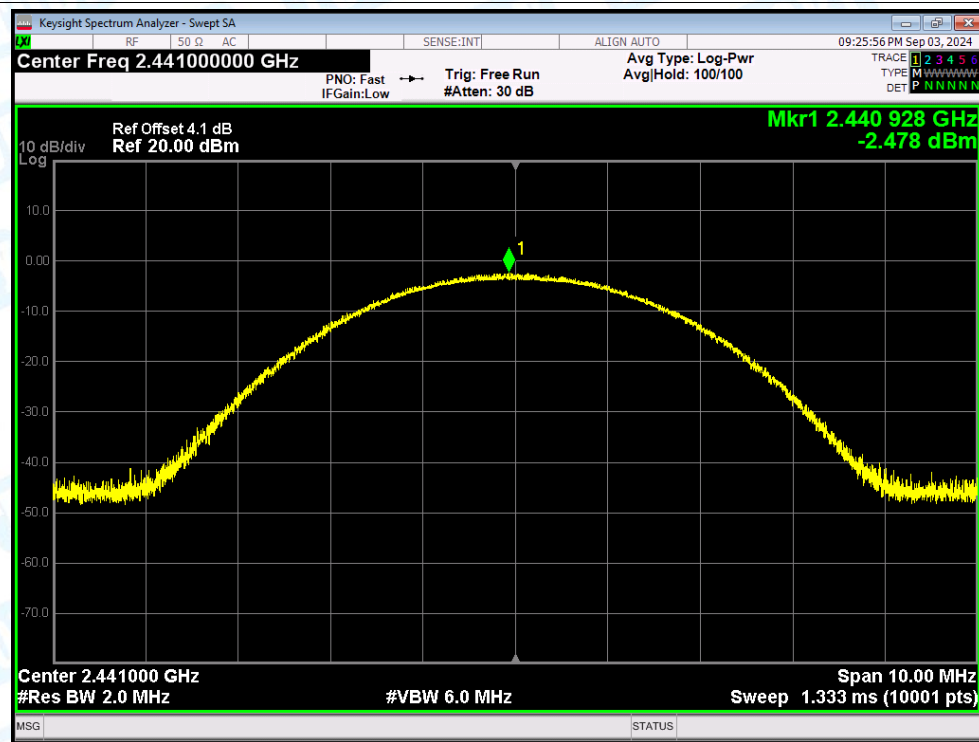
Power NVNT 2-DH1 2480MHz Ant1

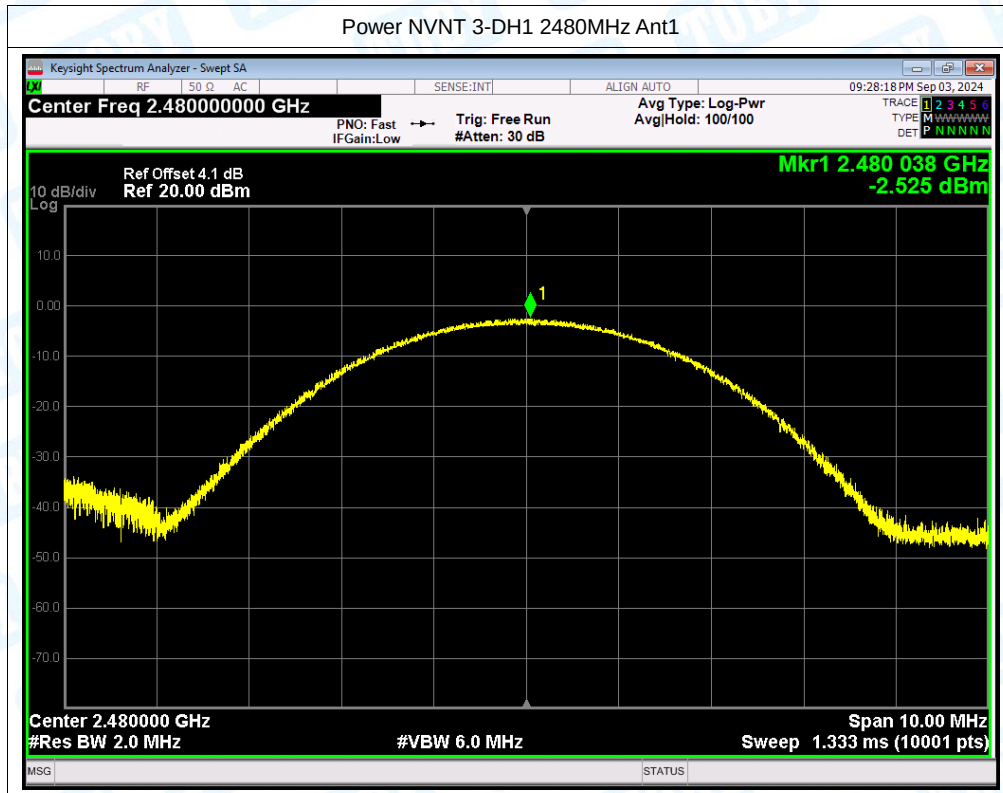


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



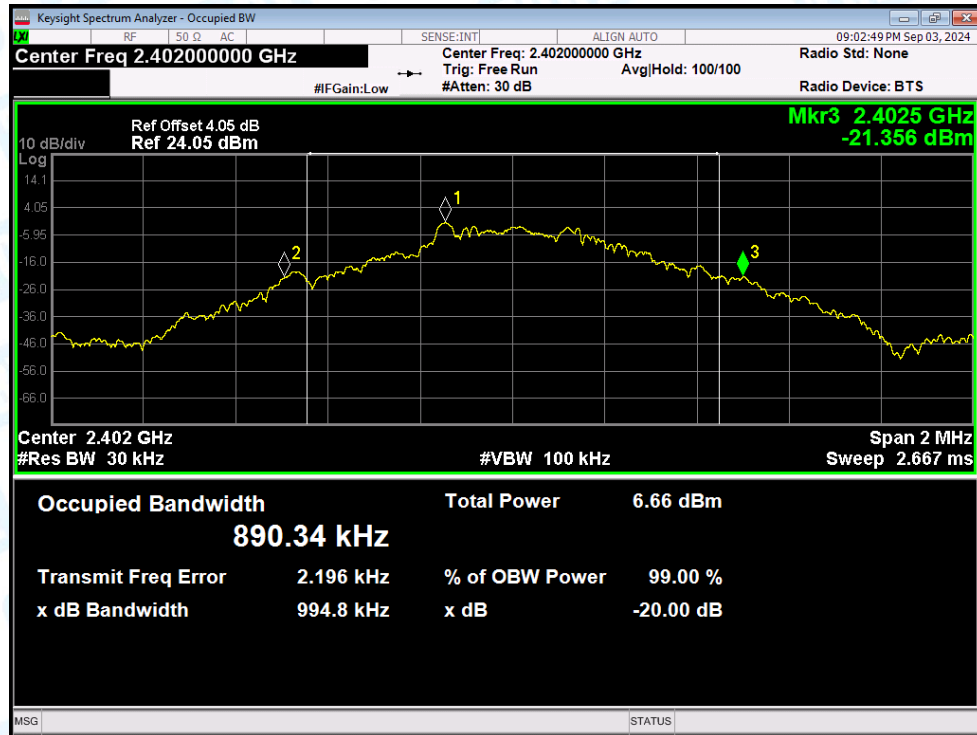


3. -20dB Bandwidth

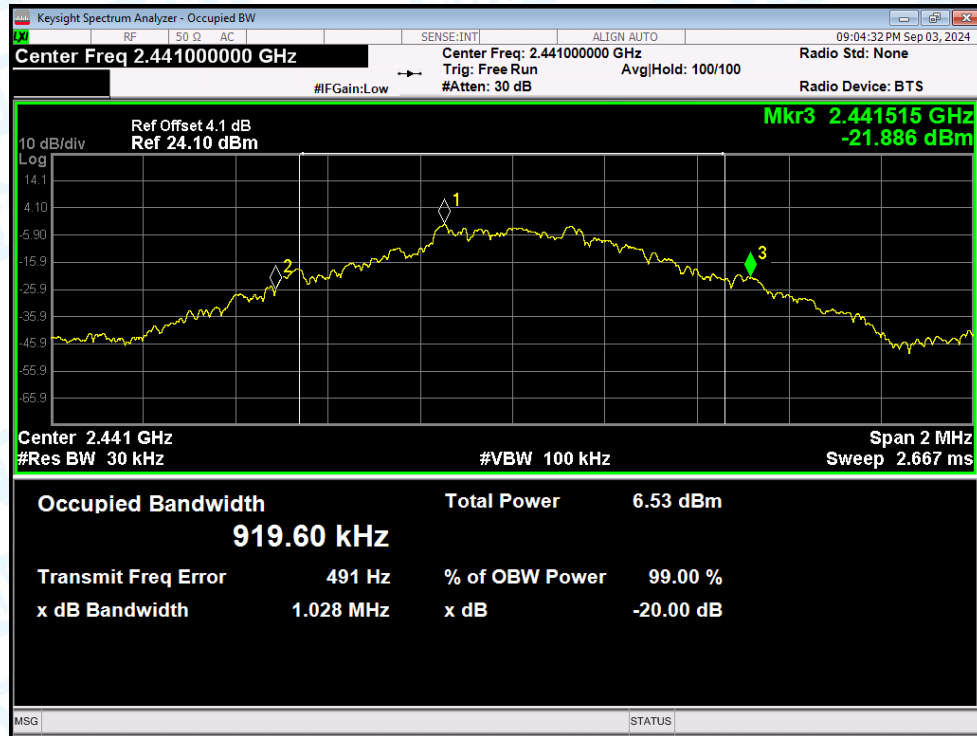
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.99	0	Pass
NVNT	1-DH1	2441	Ant1	1.03	0	Pass
NVNT	1-DH1	2480	Ant1	1.03	0	Pass
NVNT	2-DH1	2402	Ant1	1.28	0	Pass
NVNT	2-DH1	2441	Ant1	1.28	0	Pass
NVNT	2-DH1	2480	Ant1	1.27	0	Pass
NVNT	3-DH1	2402	Ant1	1.25	0	Pass
NVNT	3-DH1	2441	Ant1	1.25	0	Pass
NVNT	3-DH1	2480	Ant1	1.23	0	Pass

Test Graphs

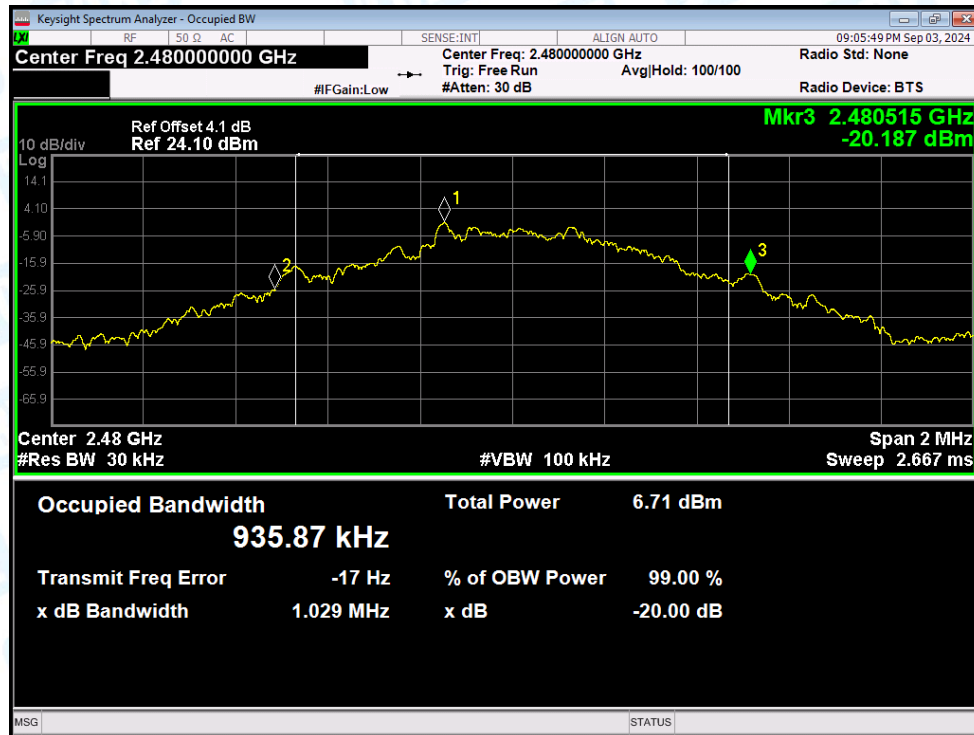
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



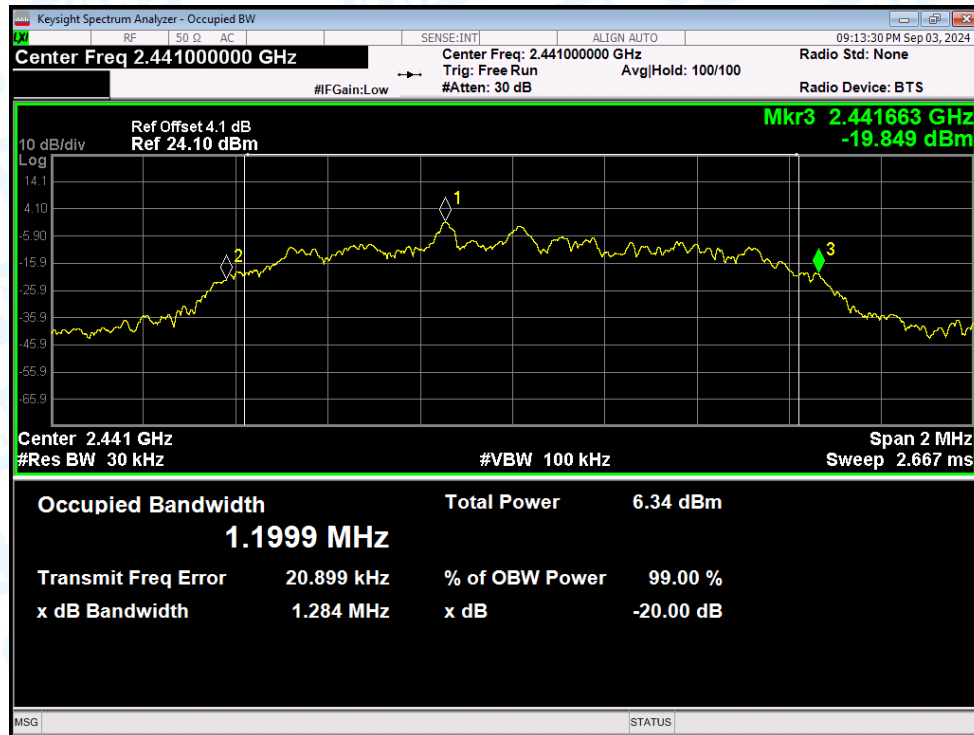
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



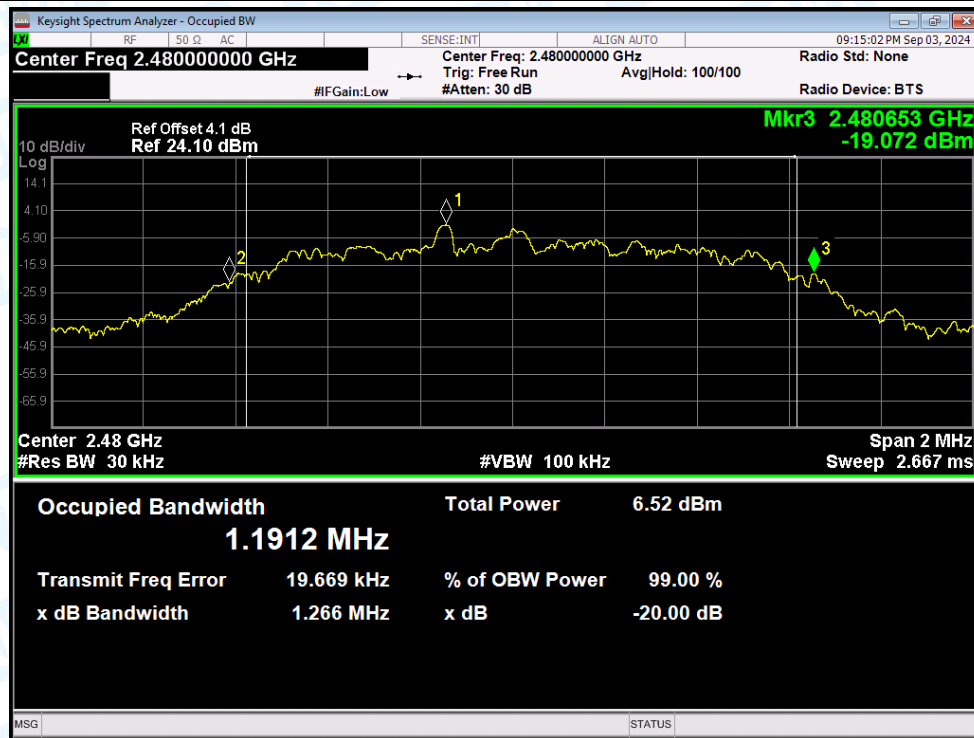
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



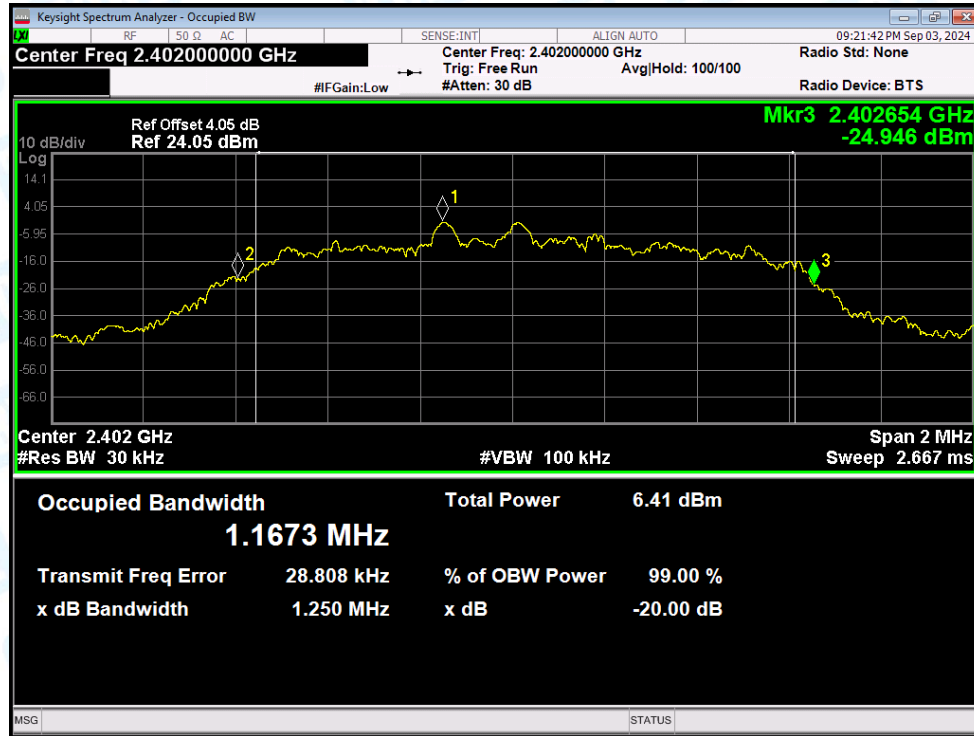
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



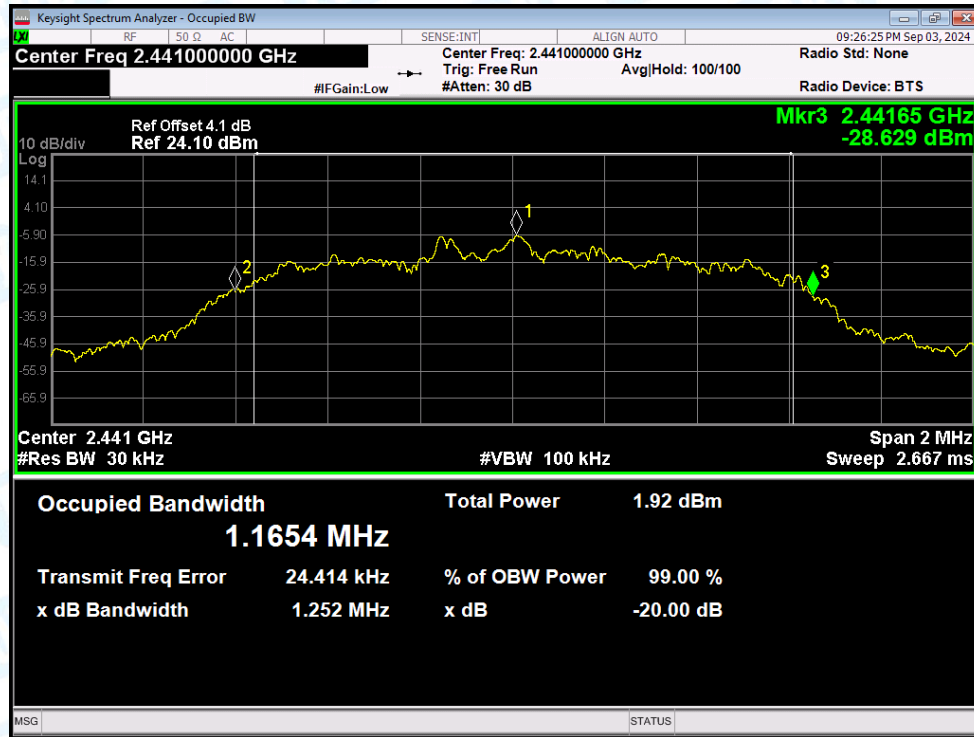
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

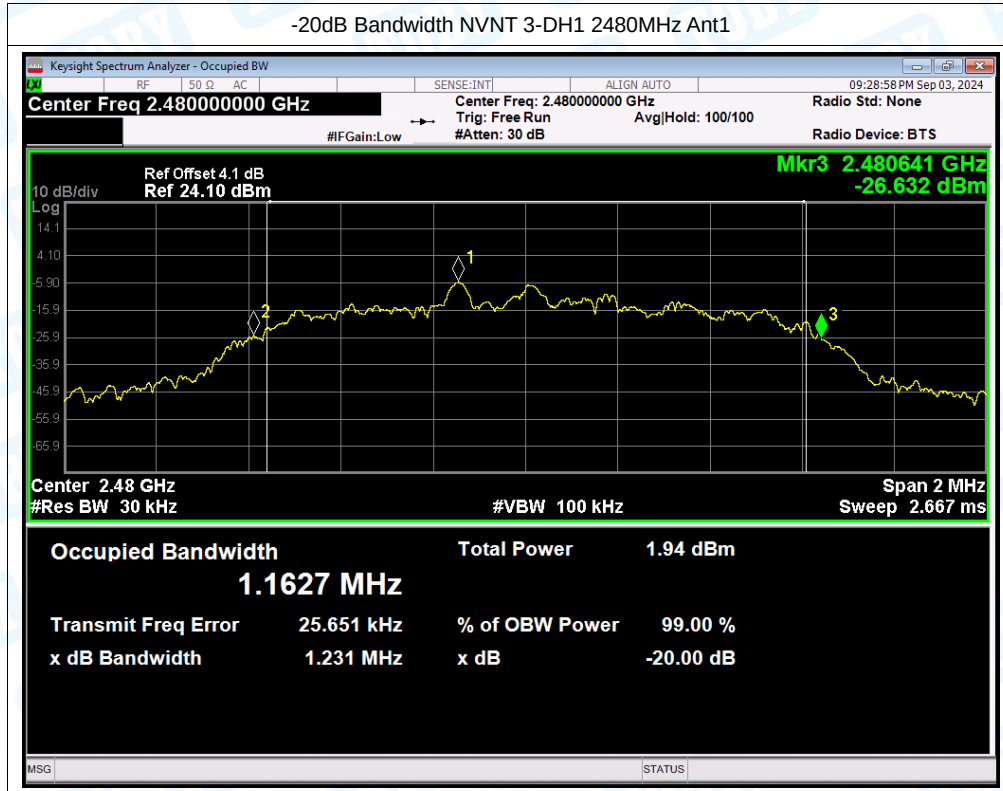


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



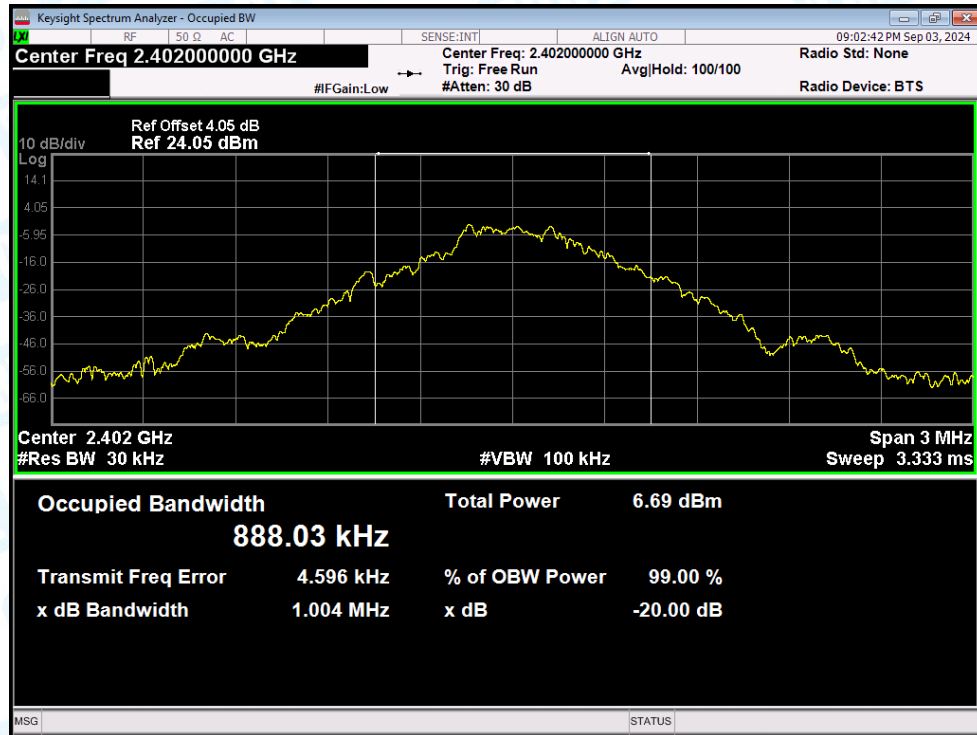


4. Occupied Channel Bandwidth

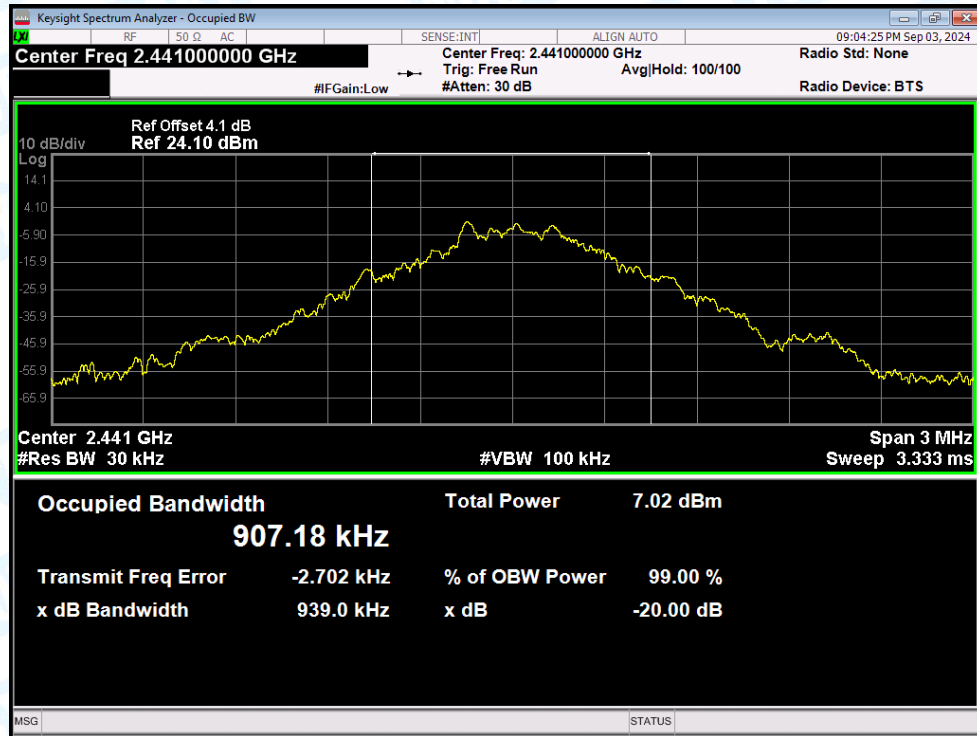
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.888
NVNT	1-DH1	2441	Ant1	0.907
NVNT	1-DH1	2480	Ant1	0.948
NVNT	2-DH1	2402	Ant1	1.176
NVNT	2-DH1	2441	Ant1	1.202
NVNT	2-DH1	2480	Ant1	1.203
NVNT	3-DH1	2402	Ant1	1.155
NVNT	3-DH1	2441	Ant1	1.166
NVNT	3-DH1	2480	Ant1	1.172

Test Graphs

OBW NVNT 1-DH1 2402MHz Ant1



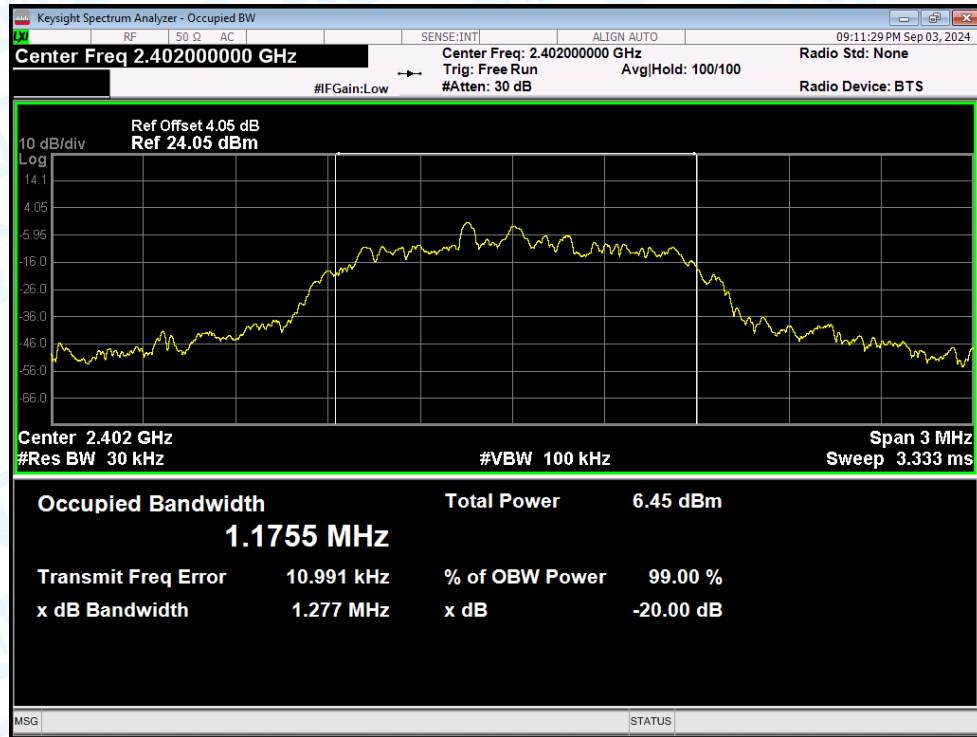
OBW NVNT 1-DH1 2441MHz Ant1



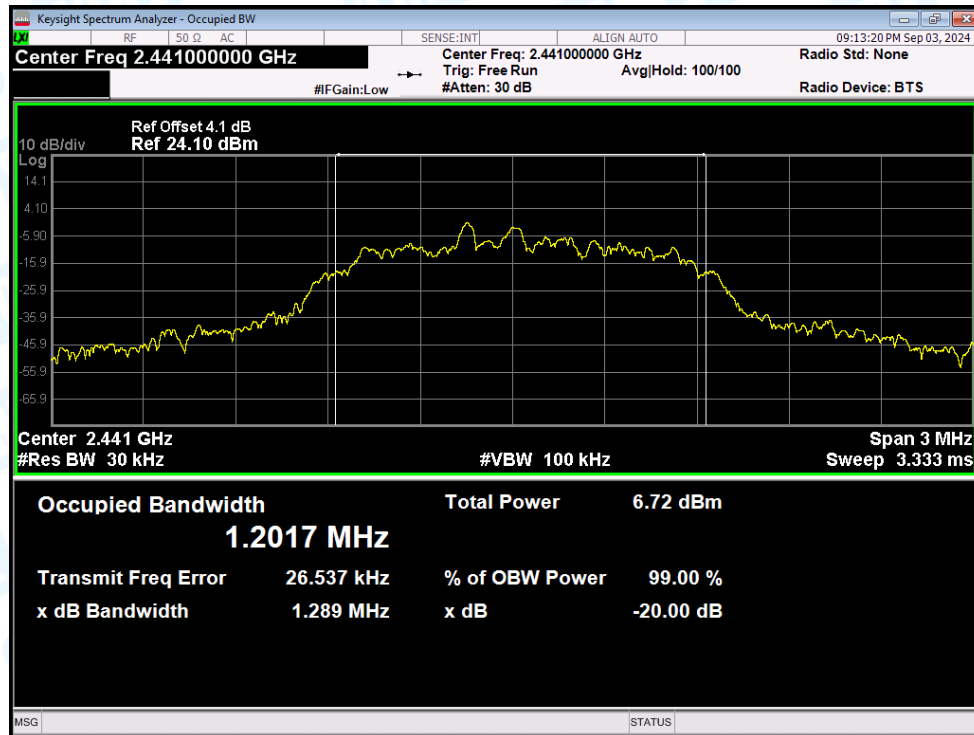
OBW NVNT 1-DH1 2480MHz Ant1



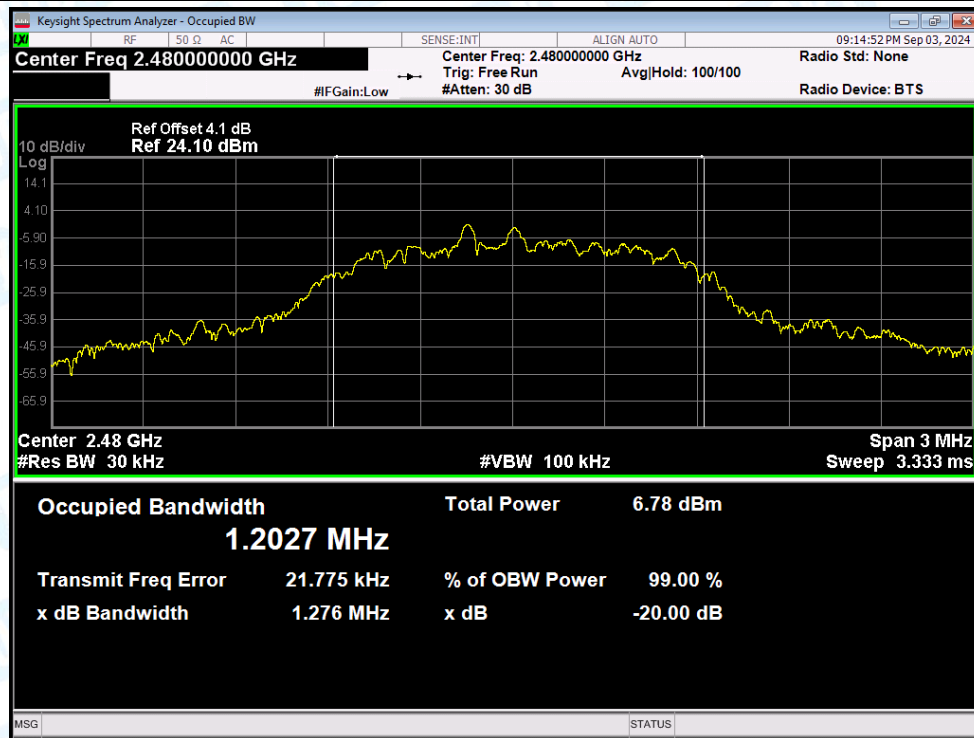
OBW NVNT 2-DH1 2402MHz Ant1



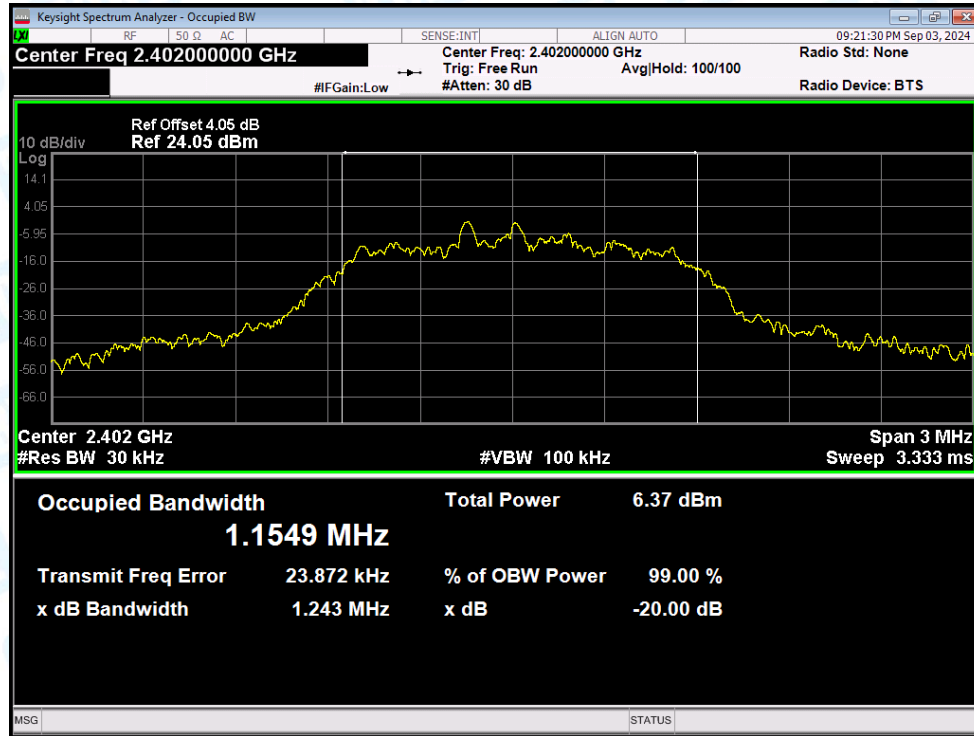
OBW NVNT 2-DH1 2441MHz Ant1



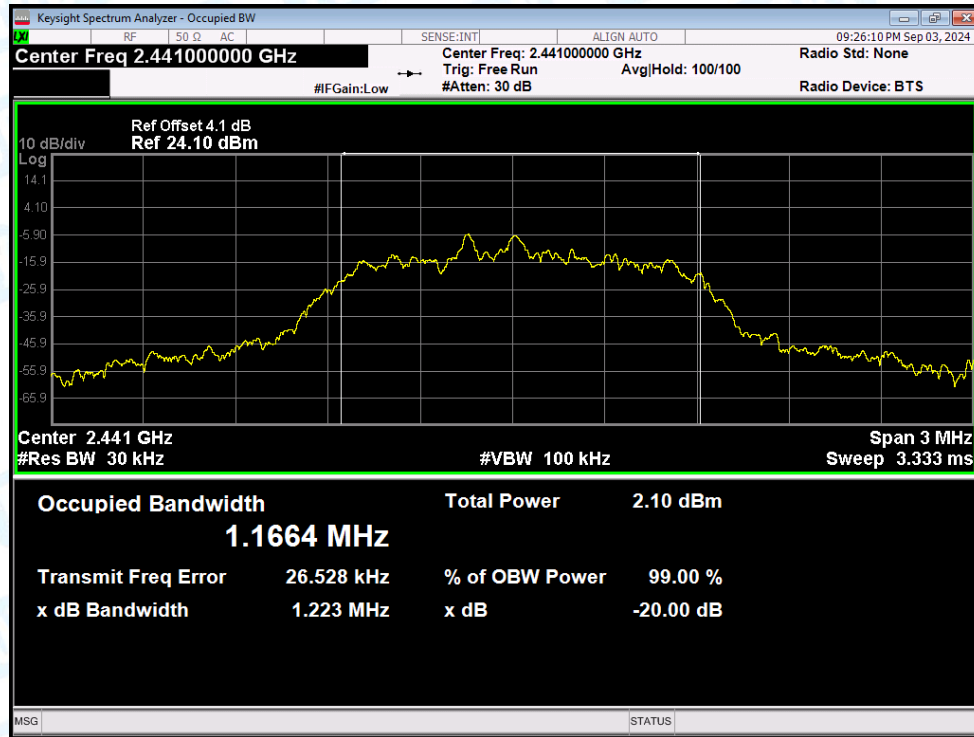
OBW NVNT 2-DH1 2480MHz Ant1

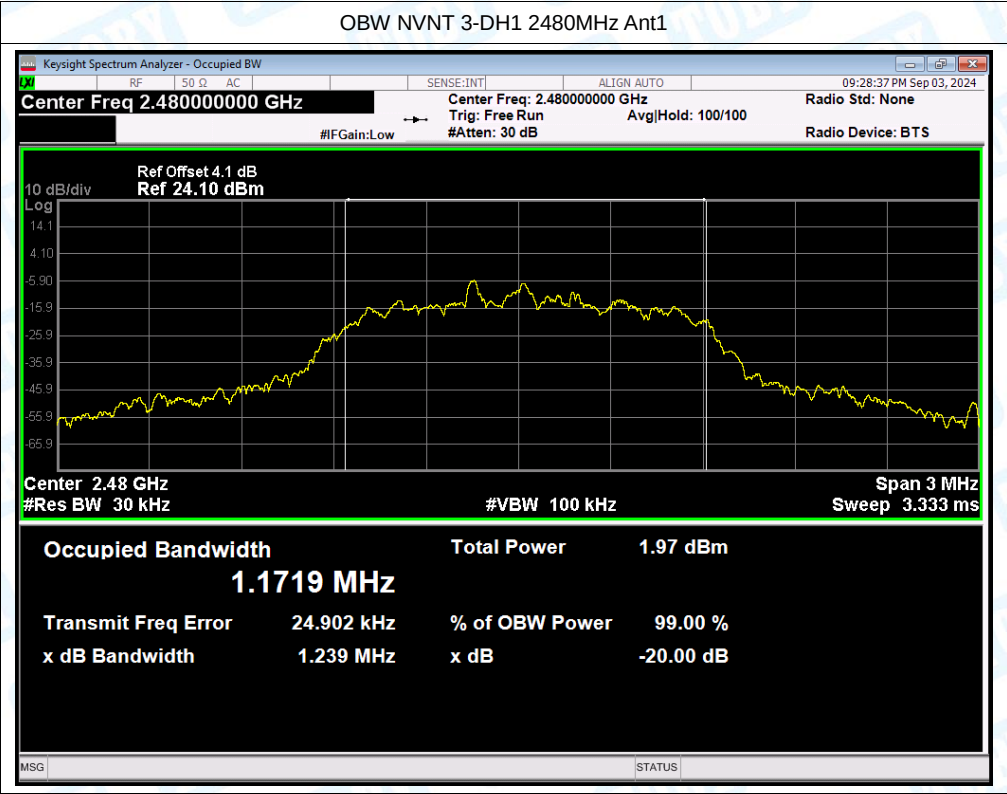


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



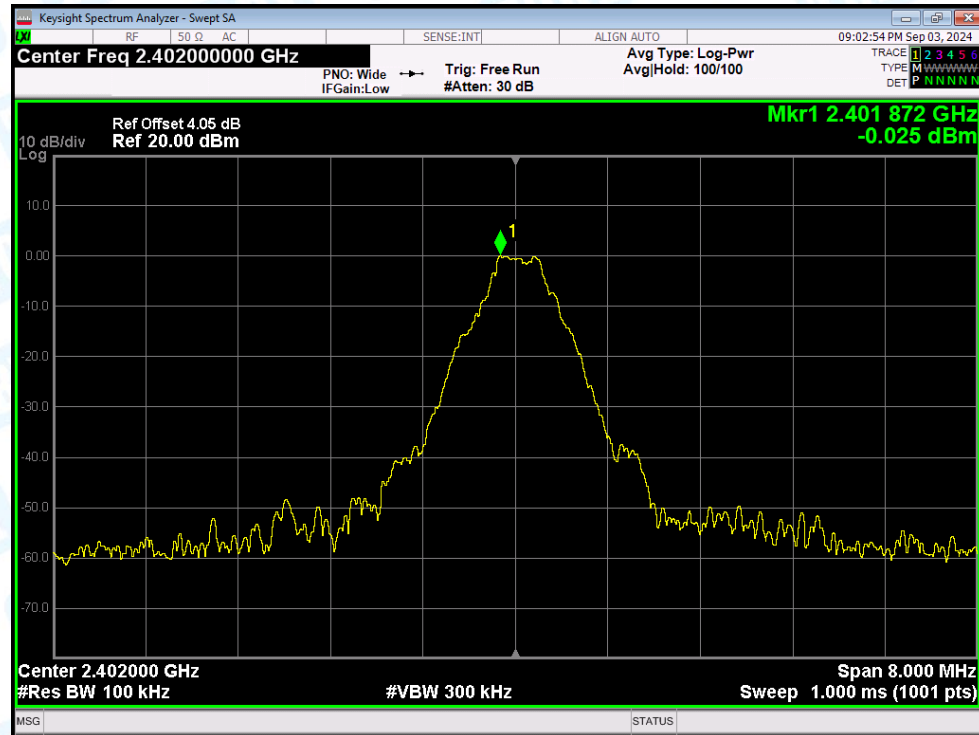


5. Band Edge

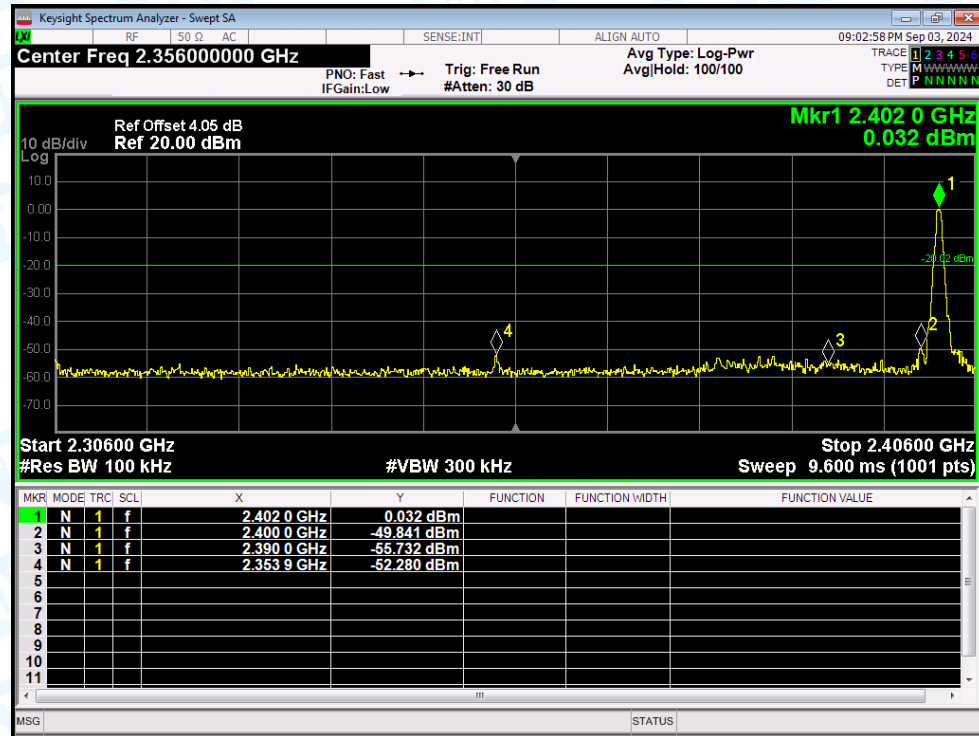
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-52.26	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.17	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-52.34	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-53	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-53.7	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-50.02	-20	Pass

Test Graphs

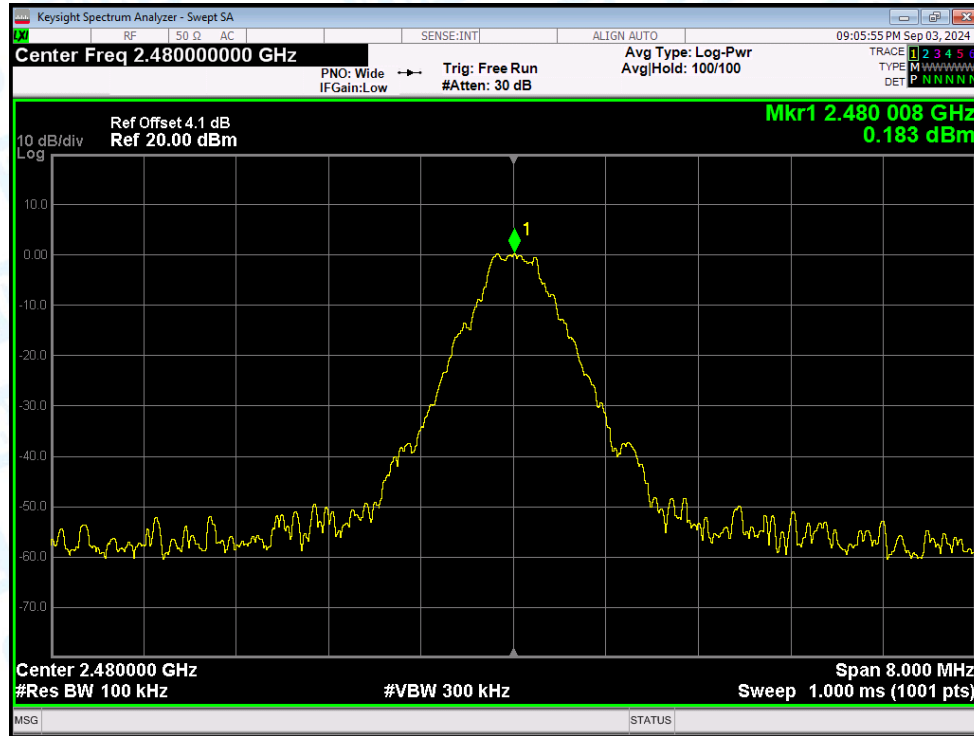
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



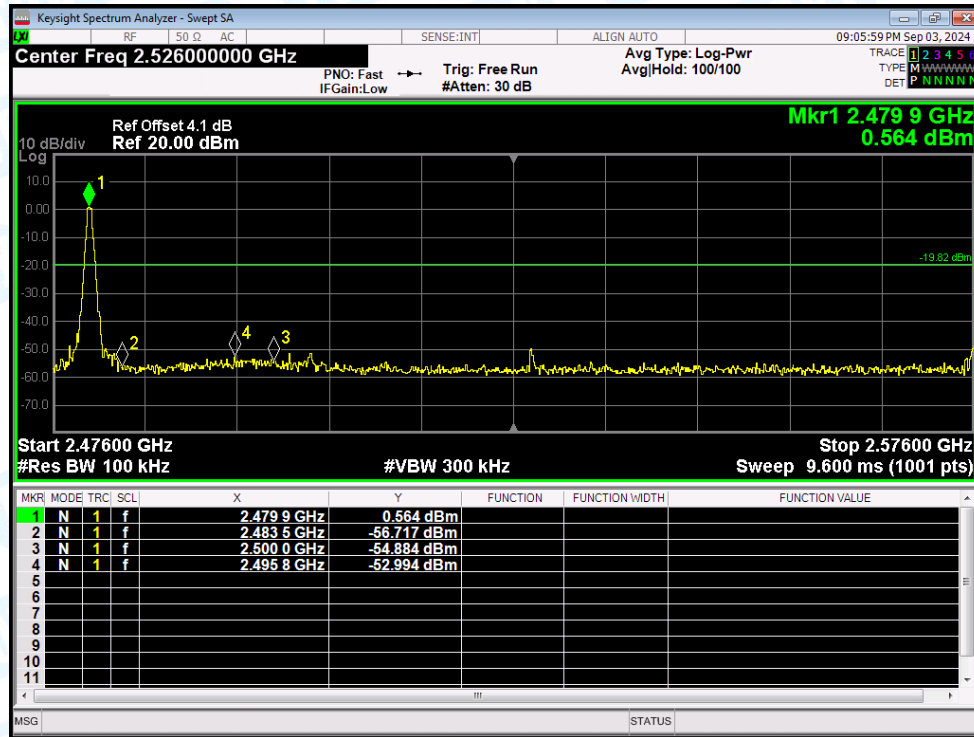
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



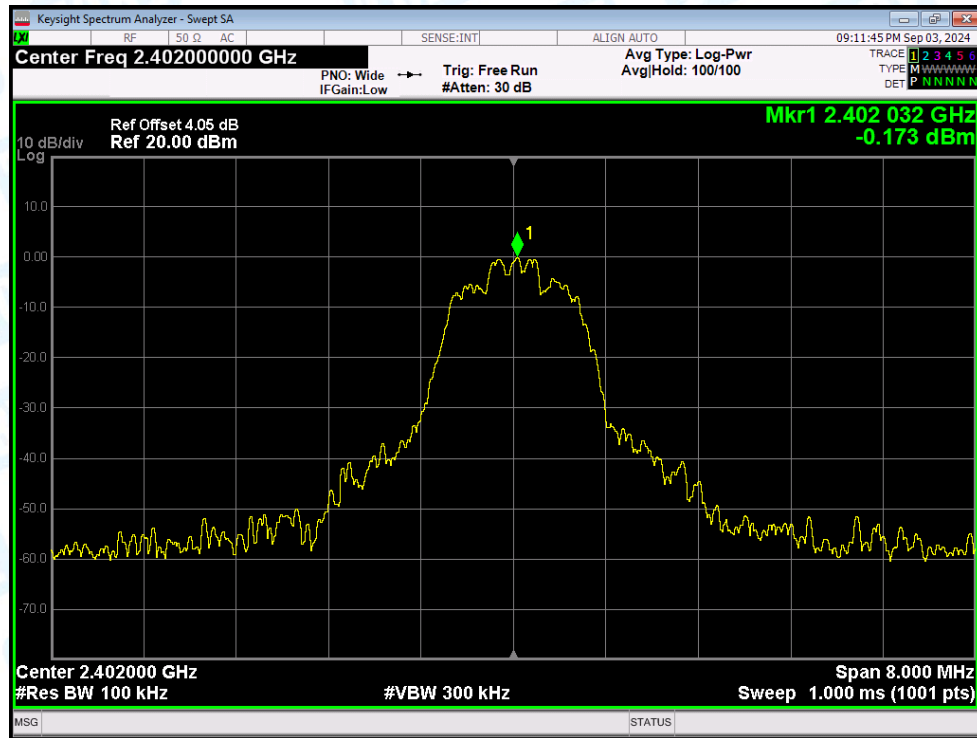
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



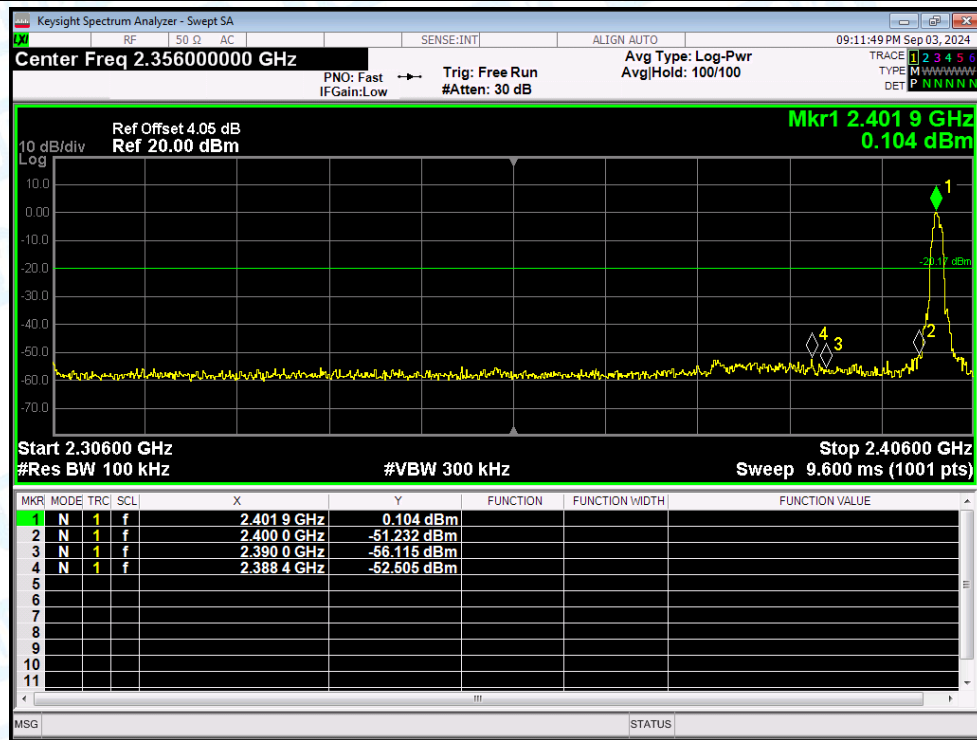
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



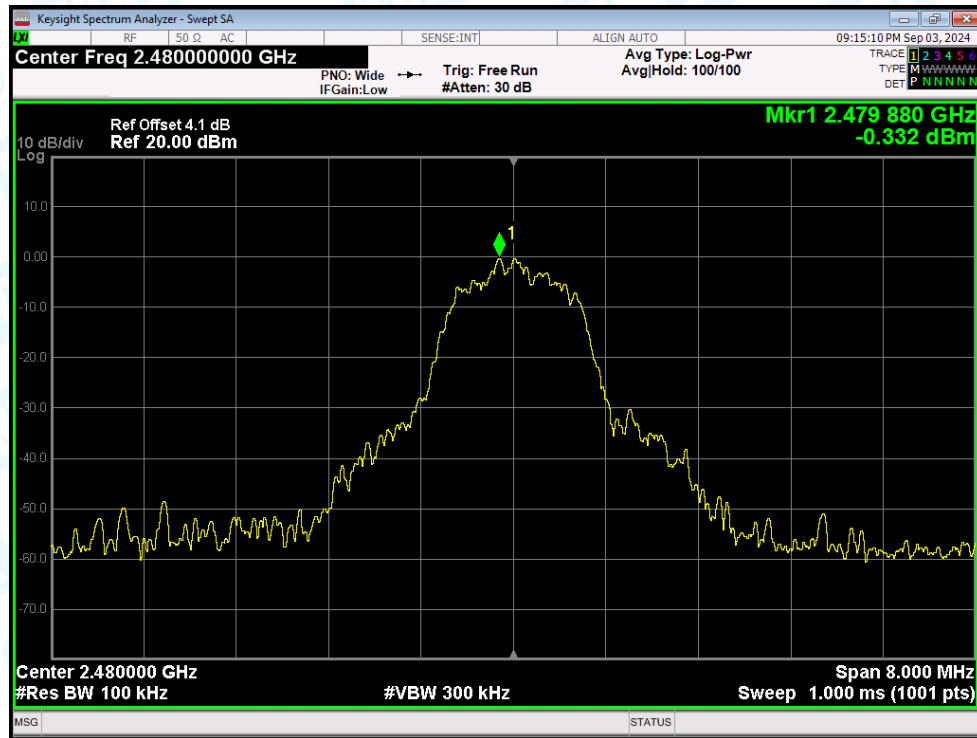
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



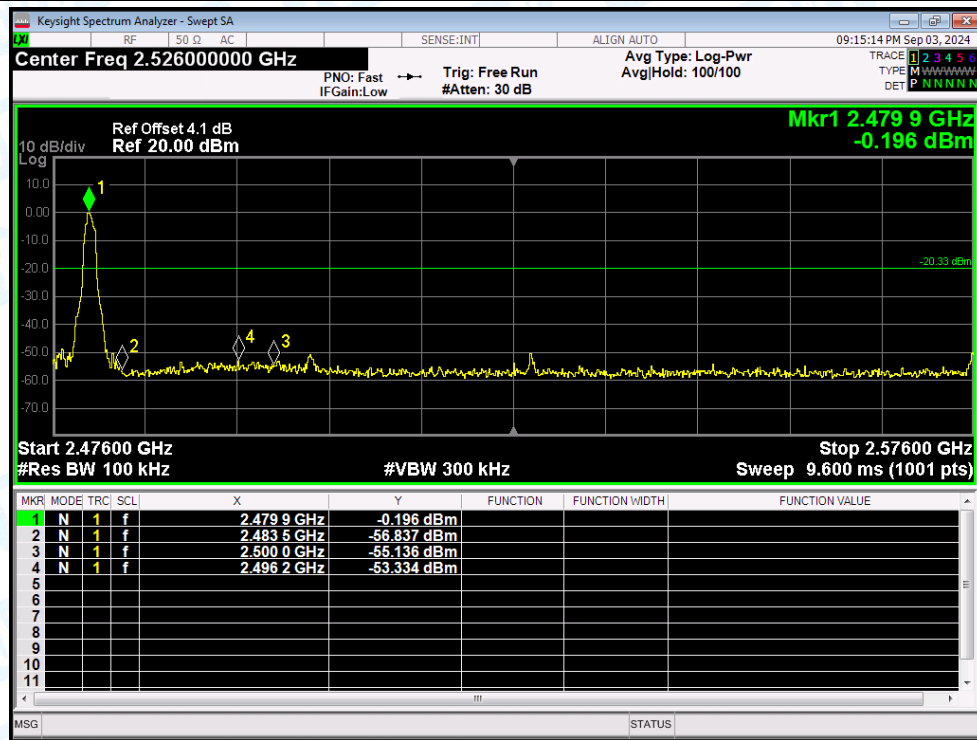
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission

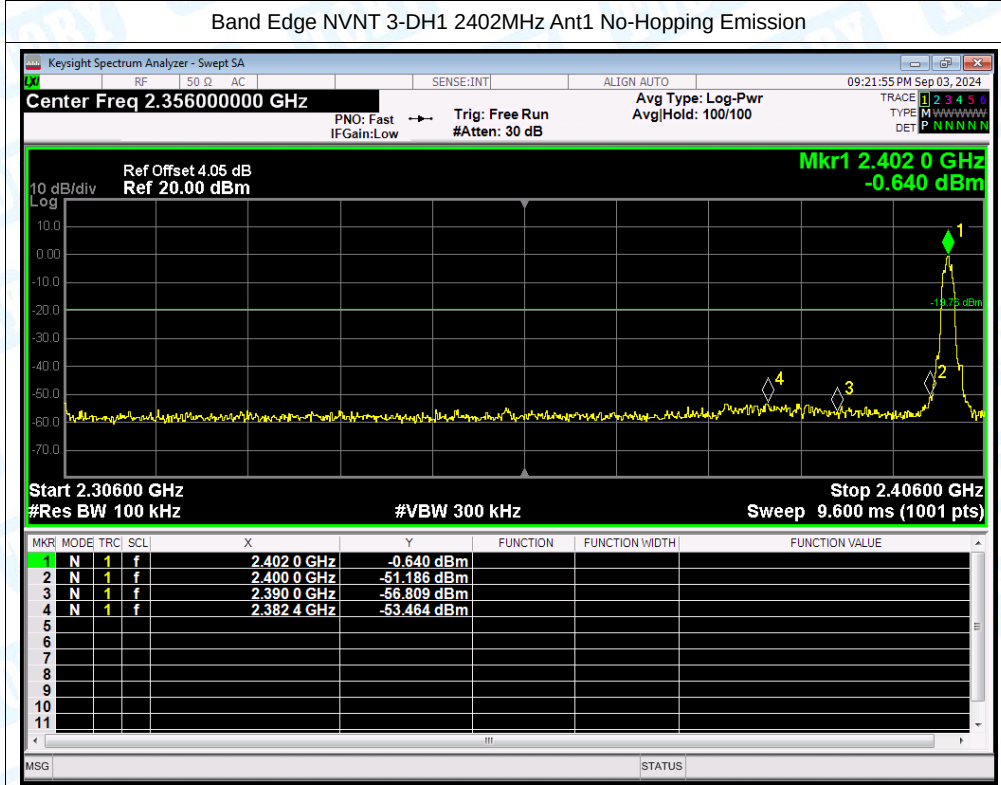
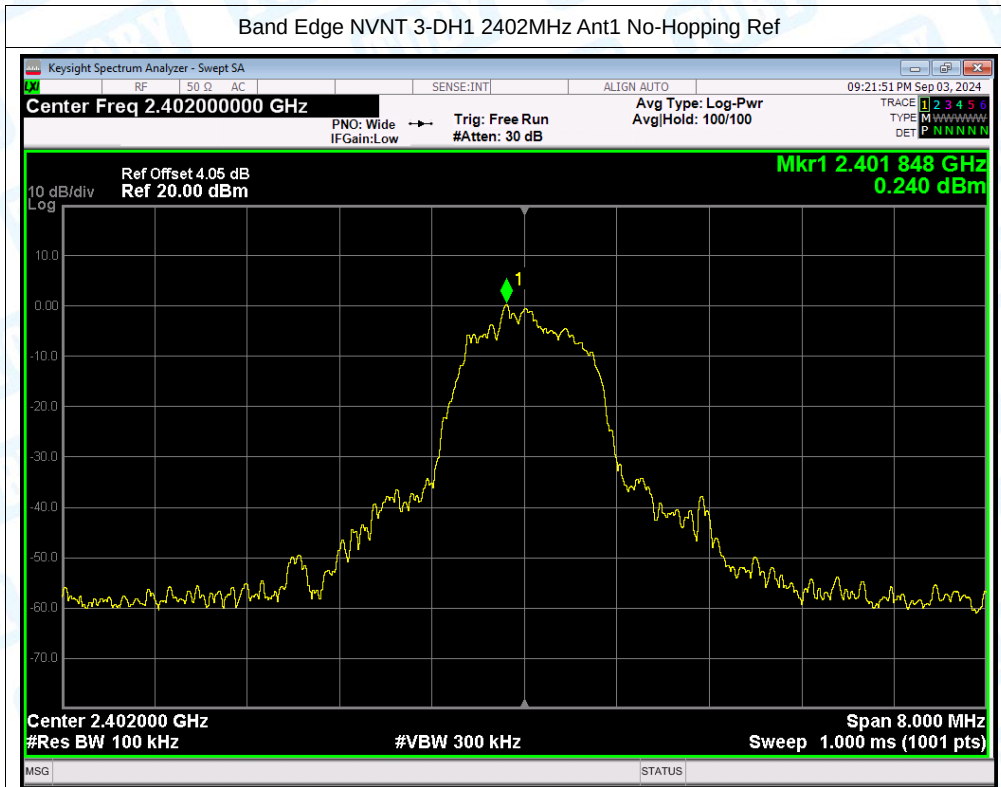


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref

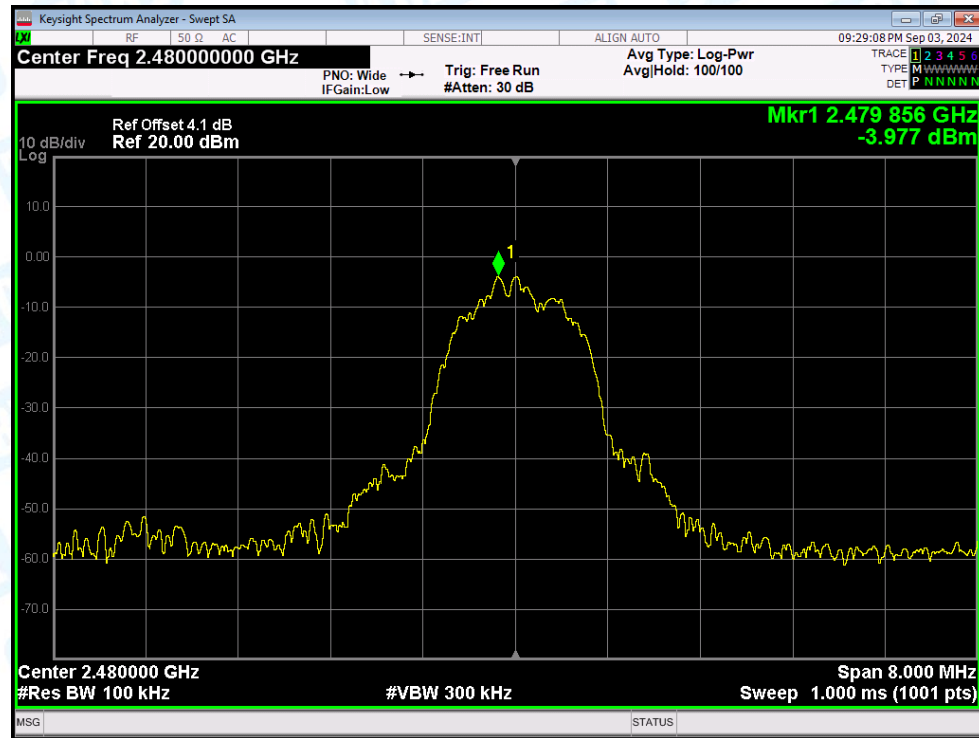


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission

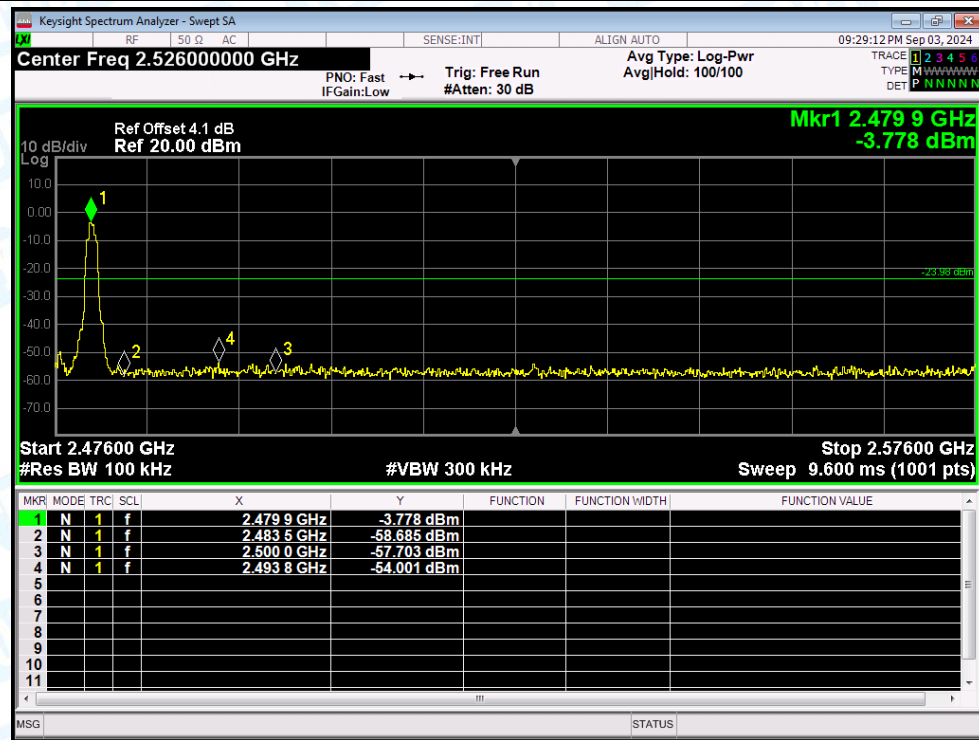




Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



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



6. Band Edge(Hopping)

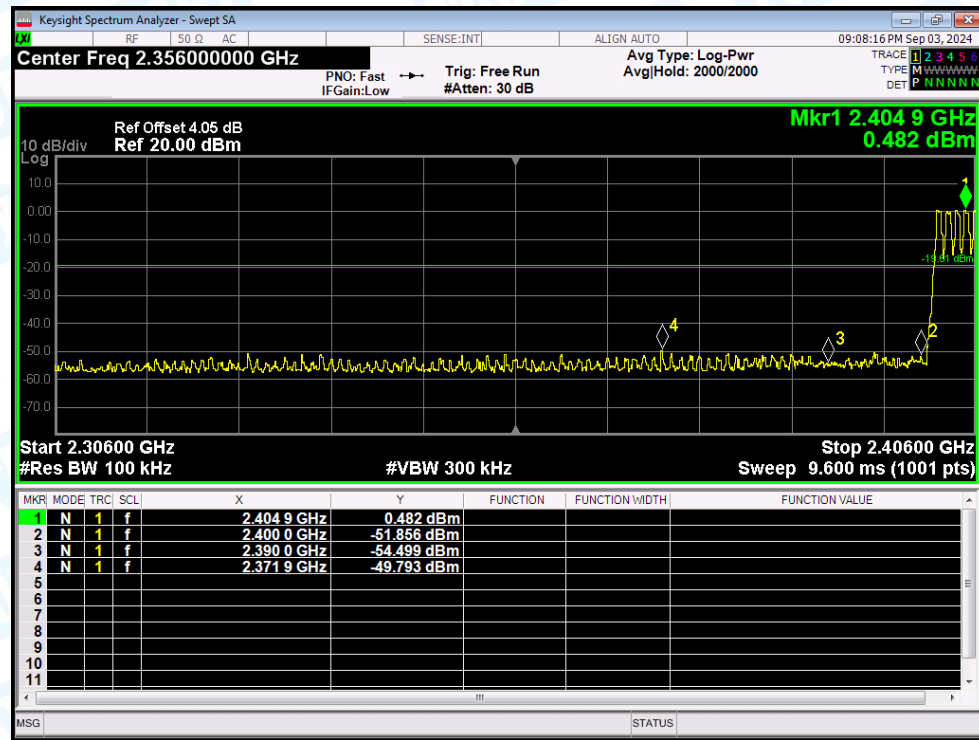
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-50.18	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-49.86	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-51.33	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-49.84	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-49.08	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-48.7	-20	Pass

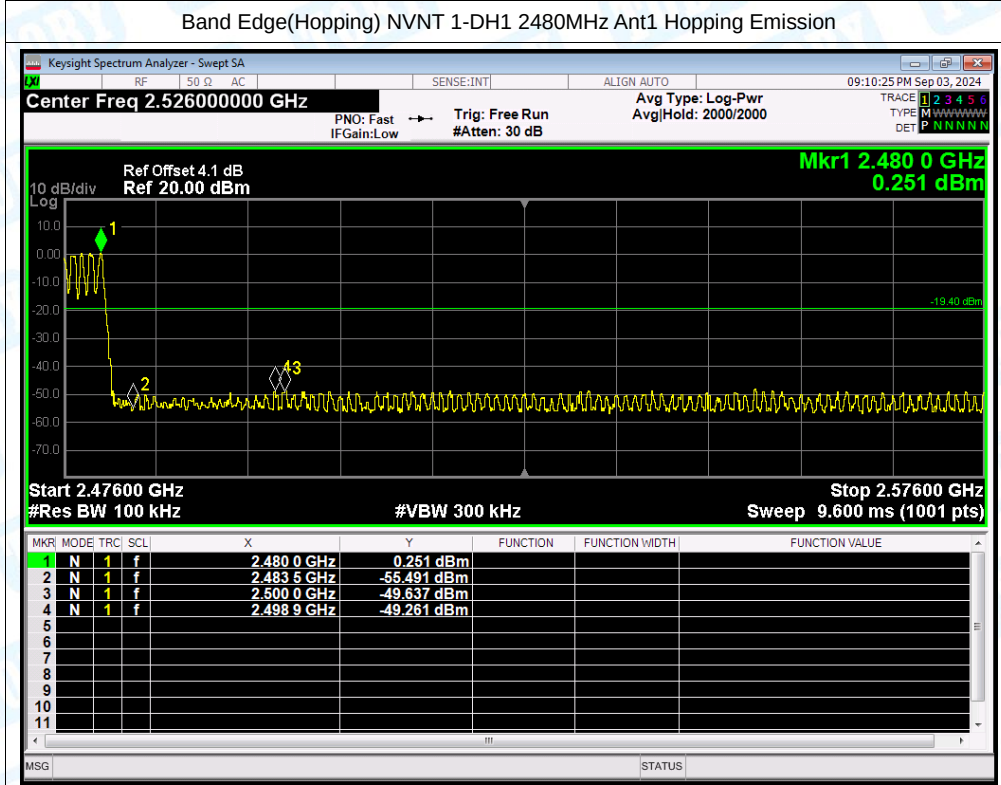
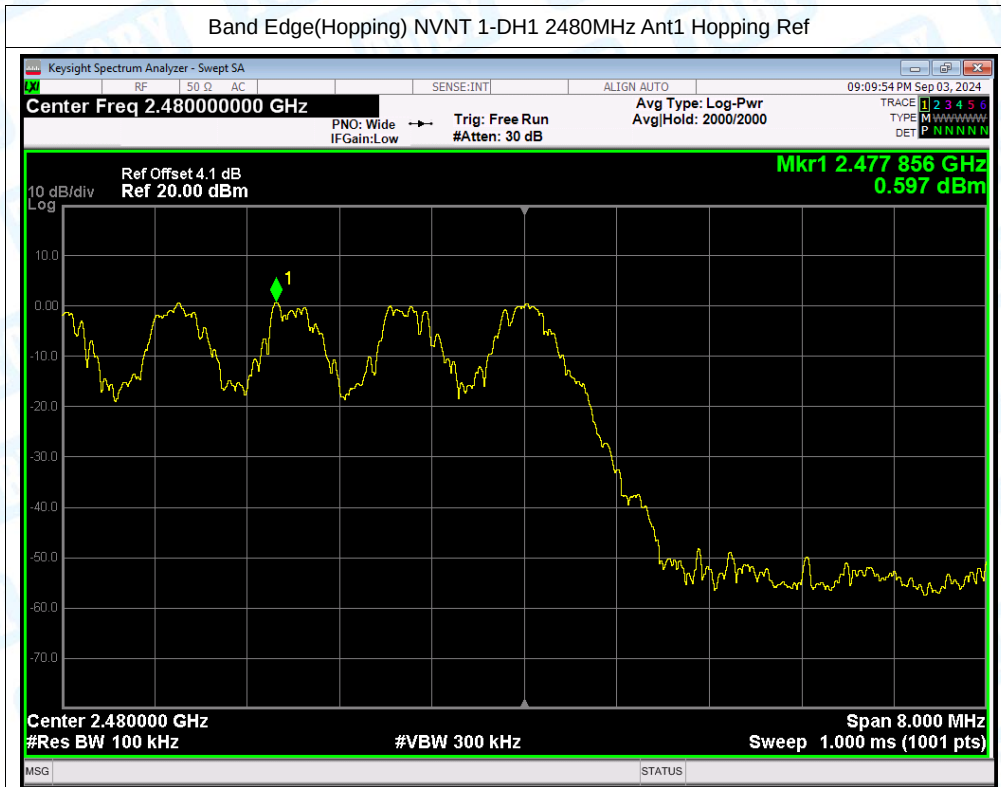
Test Graphs

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

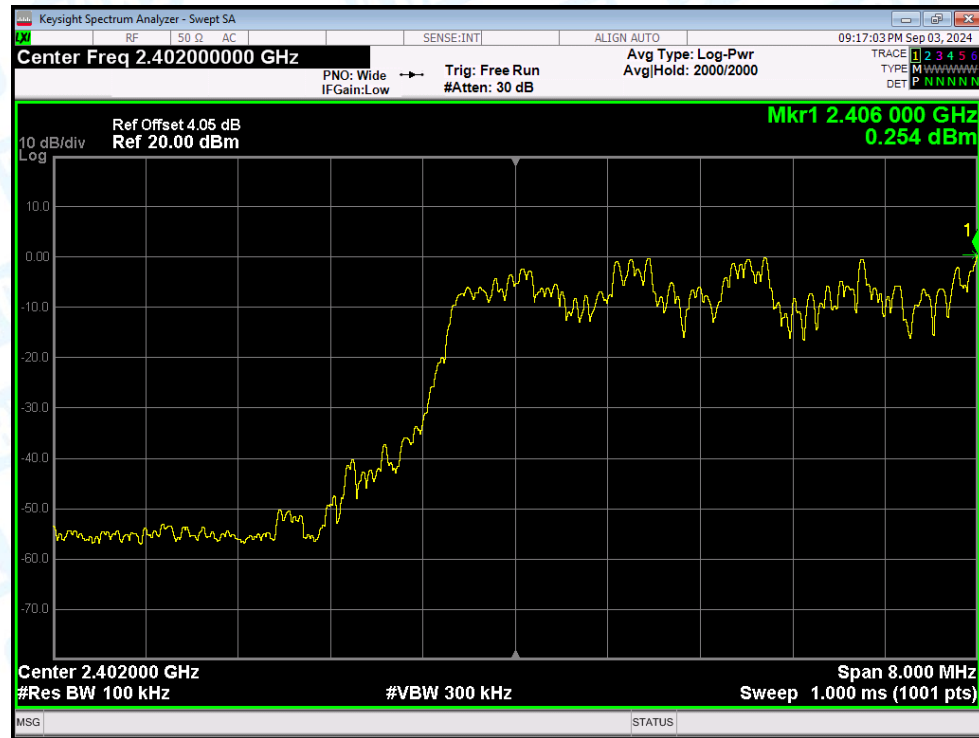


Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

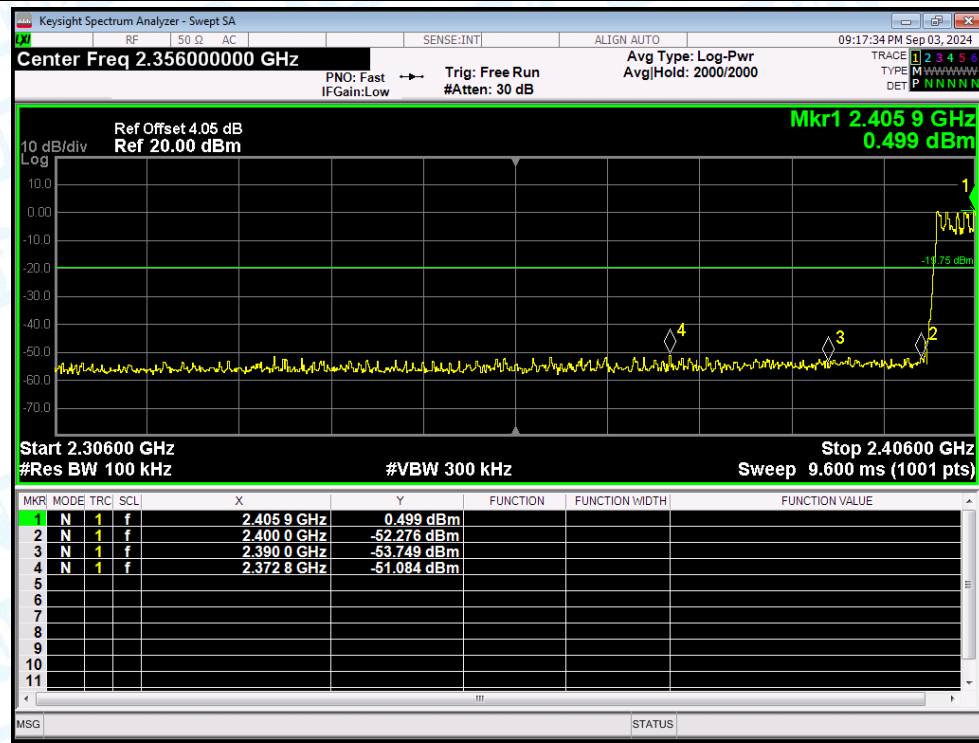


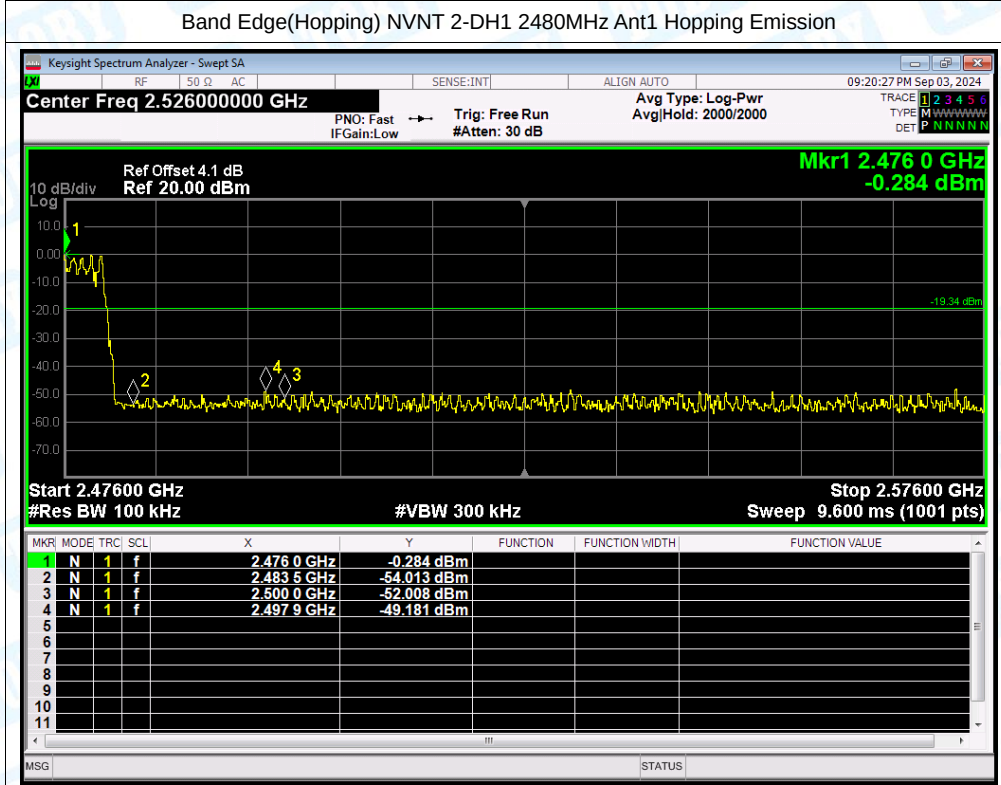


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



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

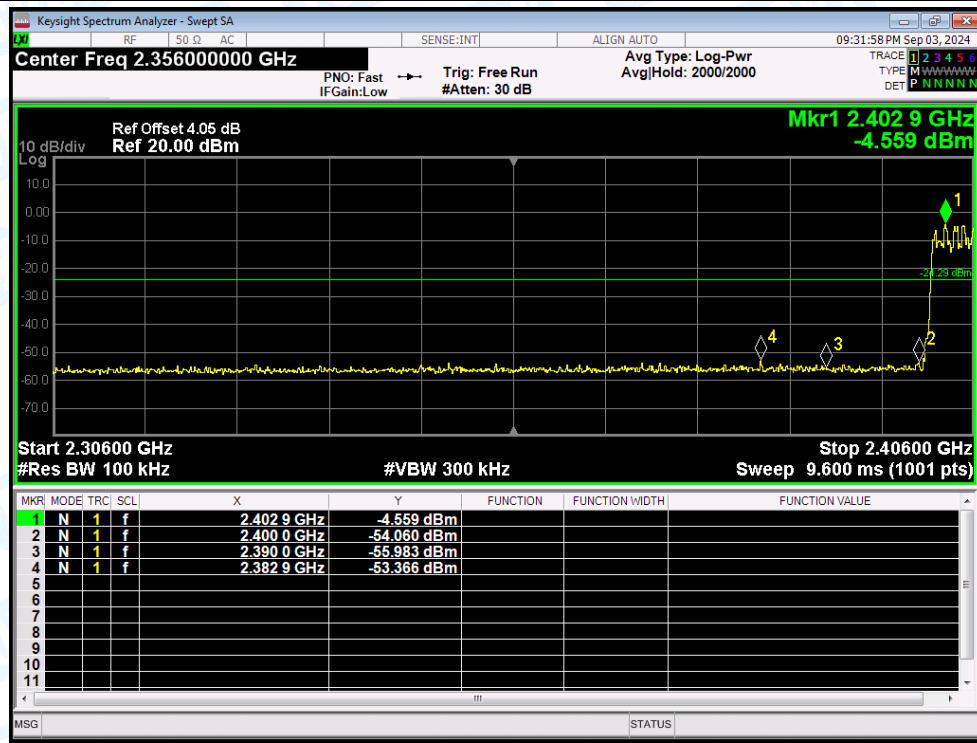


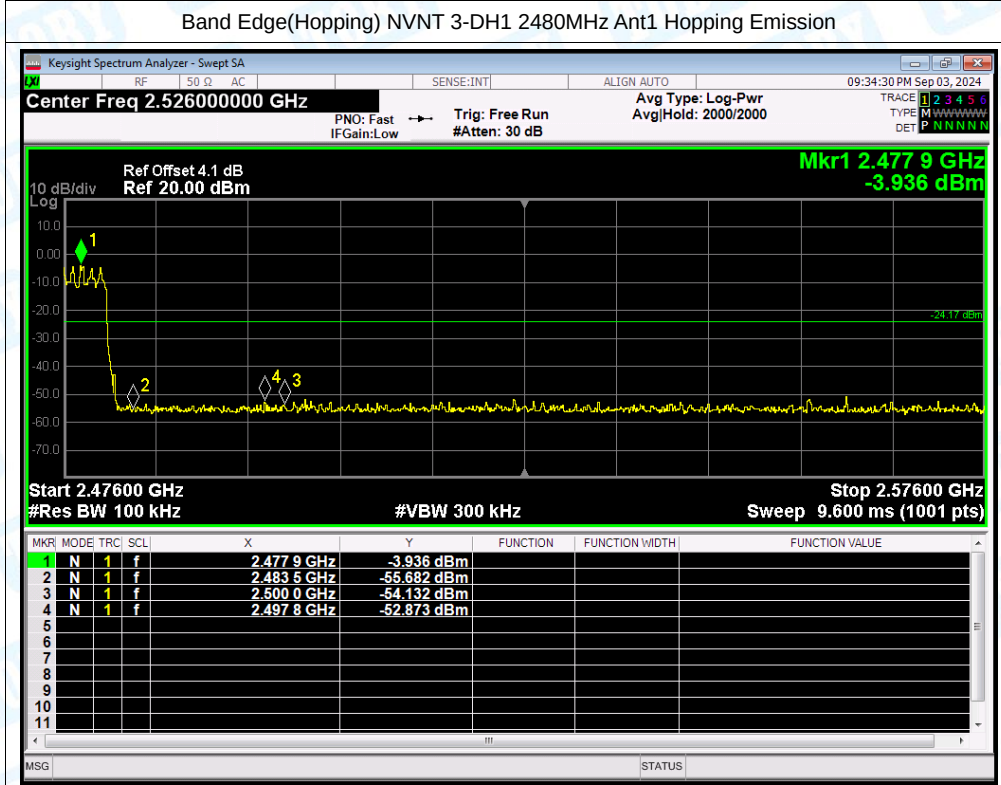
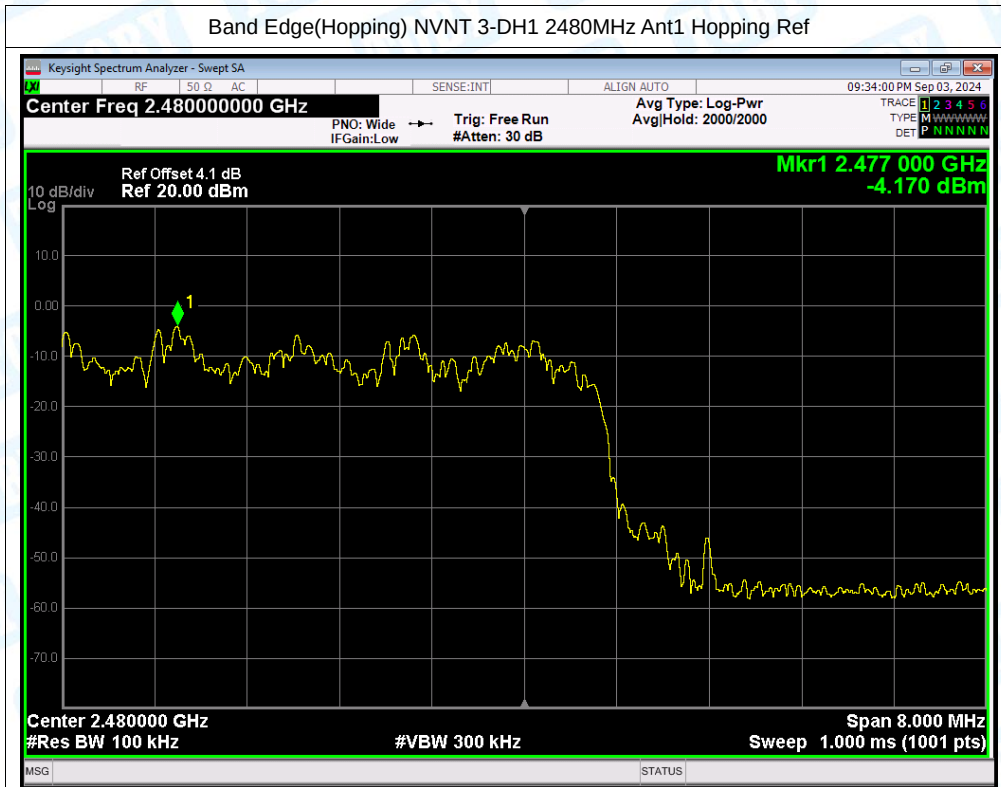


Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



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



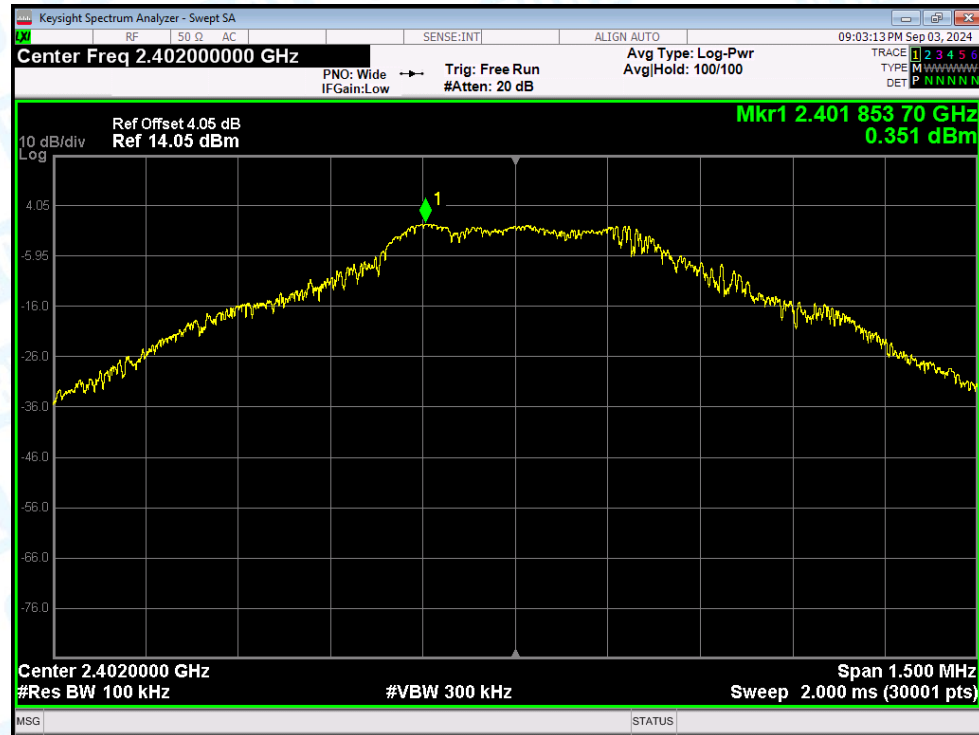


7. Conducted RF Spurious Emission

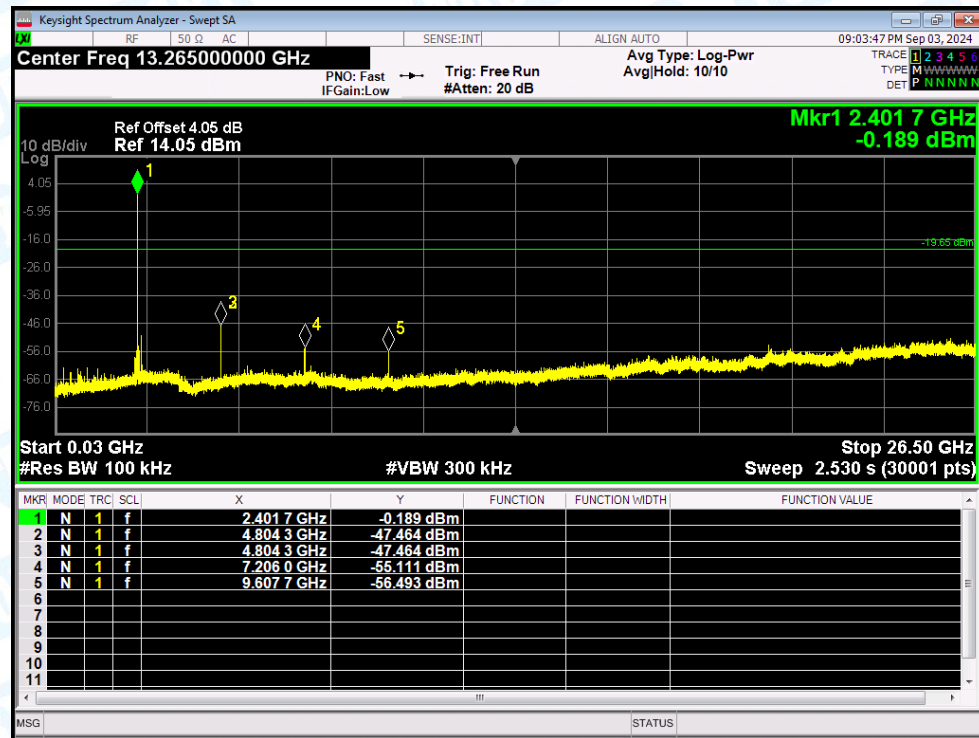
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-47.81	-20	Pass
NVNT	1-DH1	2441	Ant1	-49.91	-20	Pass
NVNT	1-DH1	2480	Ant1	-47.66	-20	Pass
NVNT	2-DH1	2402	Ant1	-51.88	-20	Pass
NVNT	2-DH1	2441	Ant1	-50.36	-20	Pass
NVNT	2-DH1	2480	Ant1	-50.15	-20	Pass
NVNT	3-DH1	2402	Ant1	-49.91	-20	Pass
NVNT	3-DH1	2441	Ant1	-47.87	-20	Pass
NVNT	3-DH1	2480	Ant1	-47.36	-20	Pass

Test Graphs

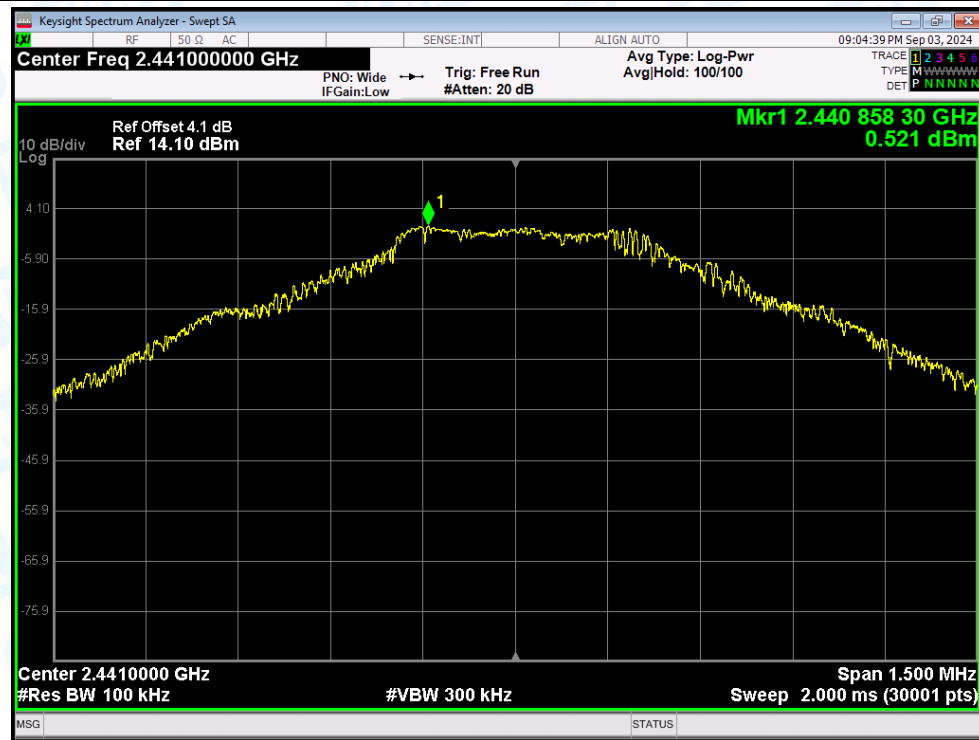
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



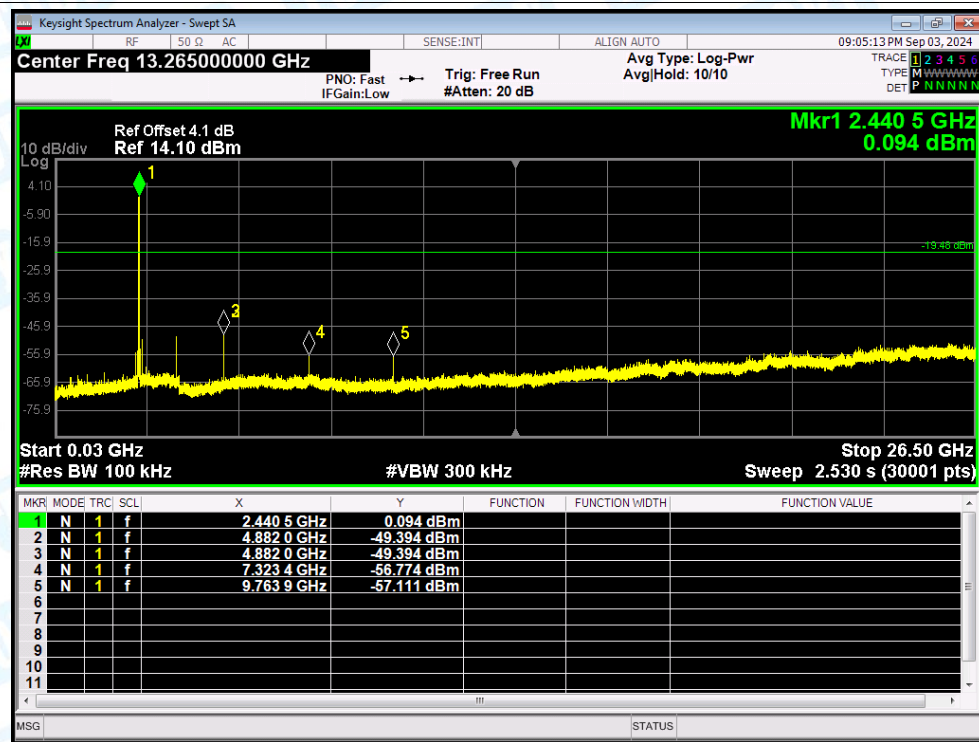
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



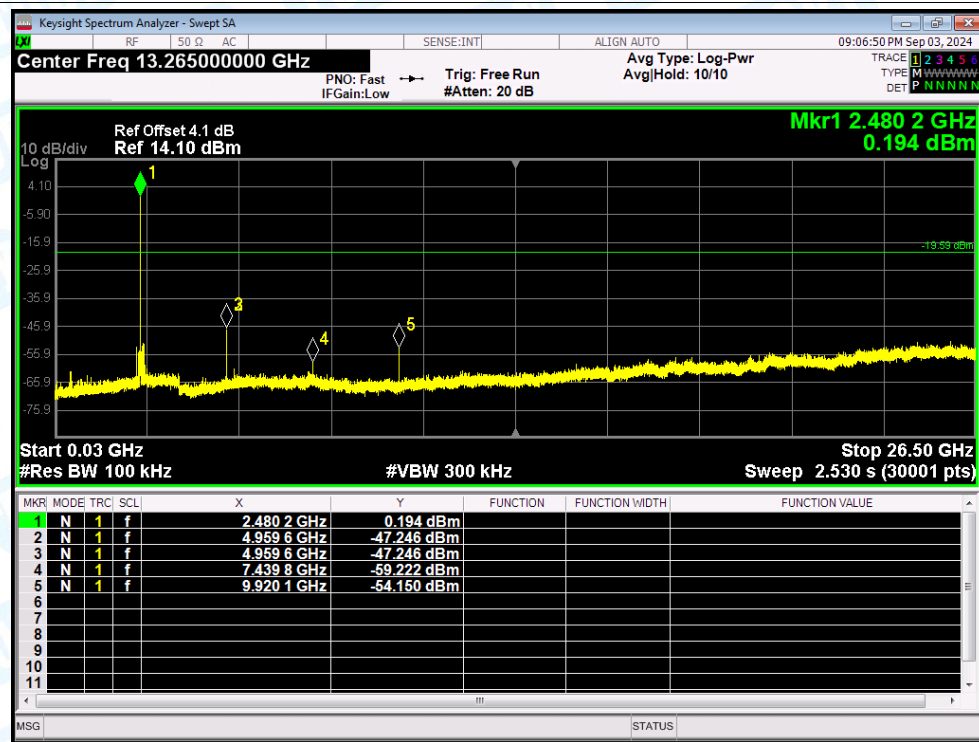
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



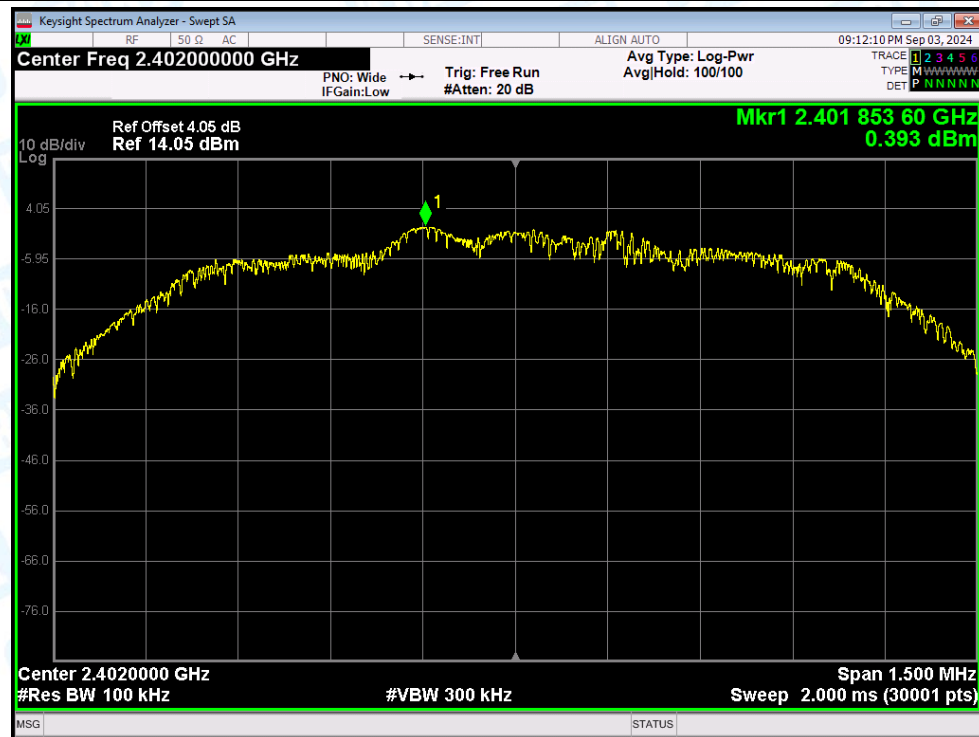
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



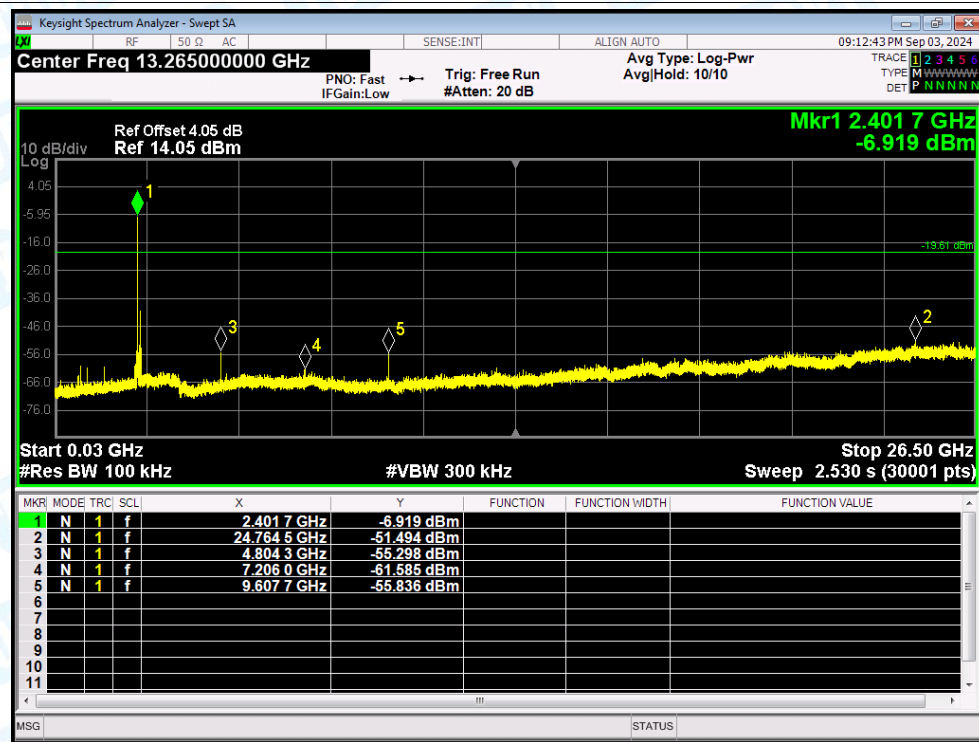
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



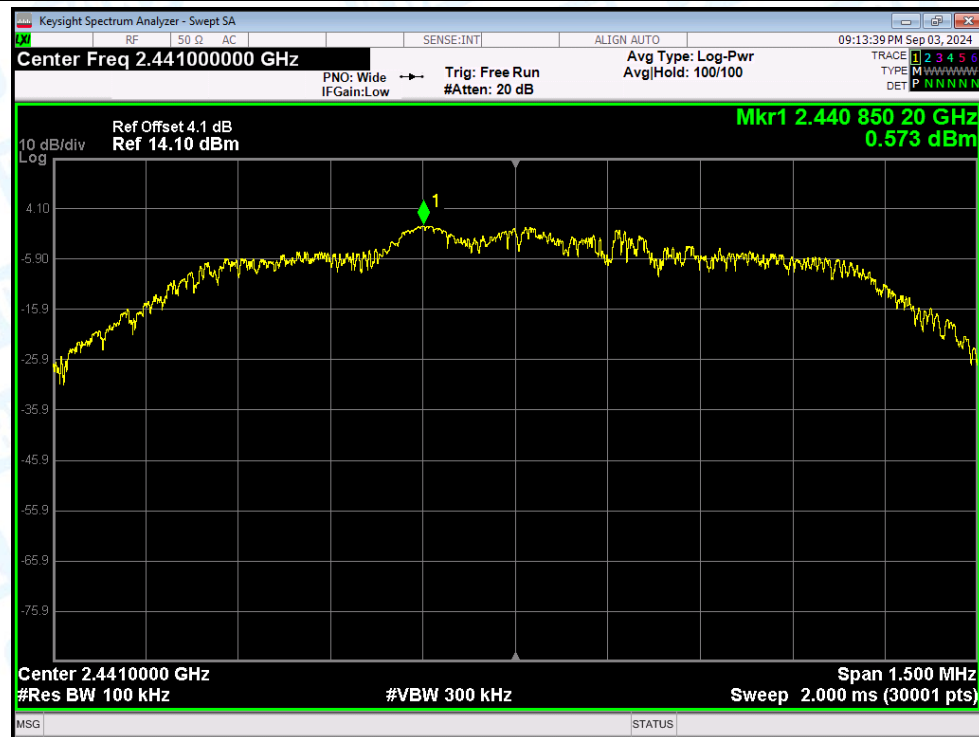
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



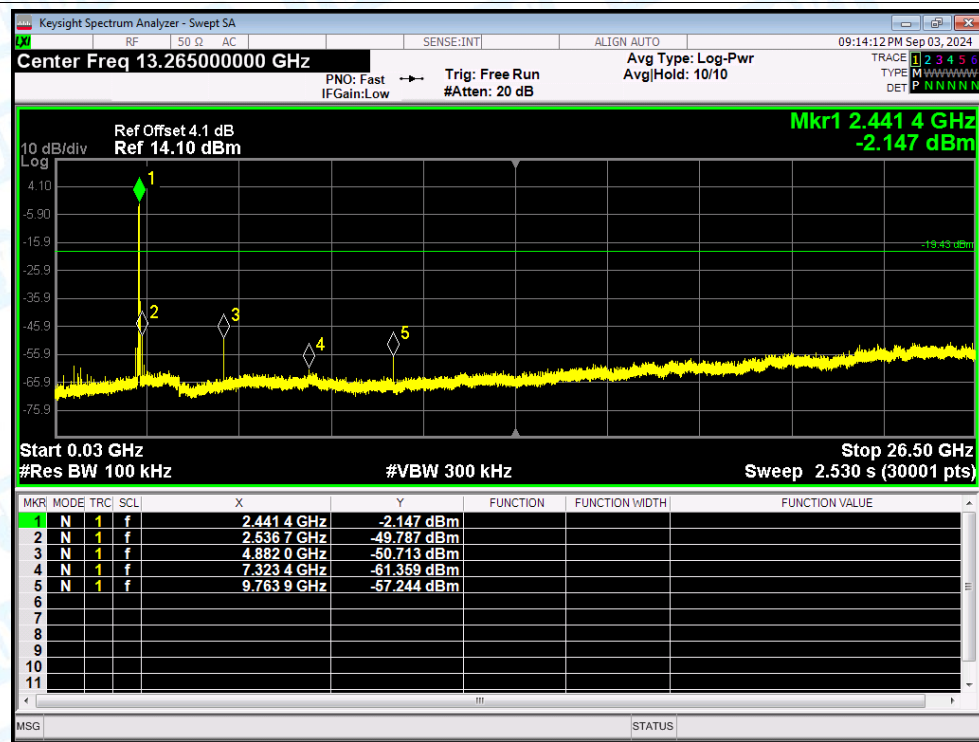
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



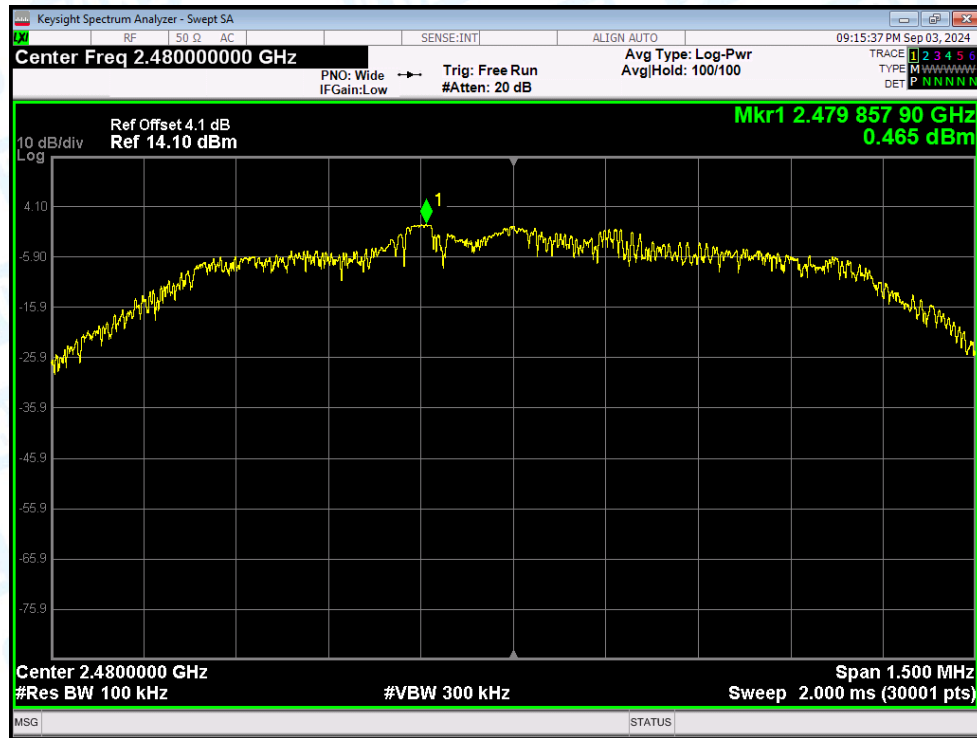
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



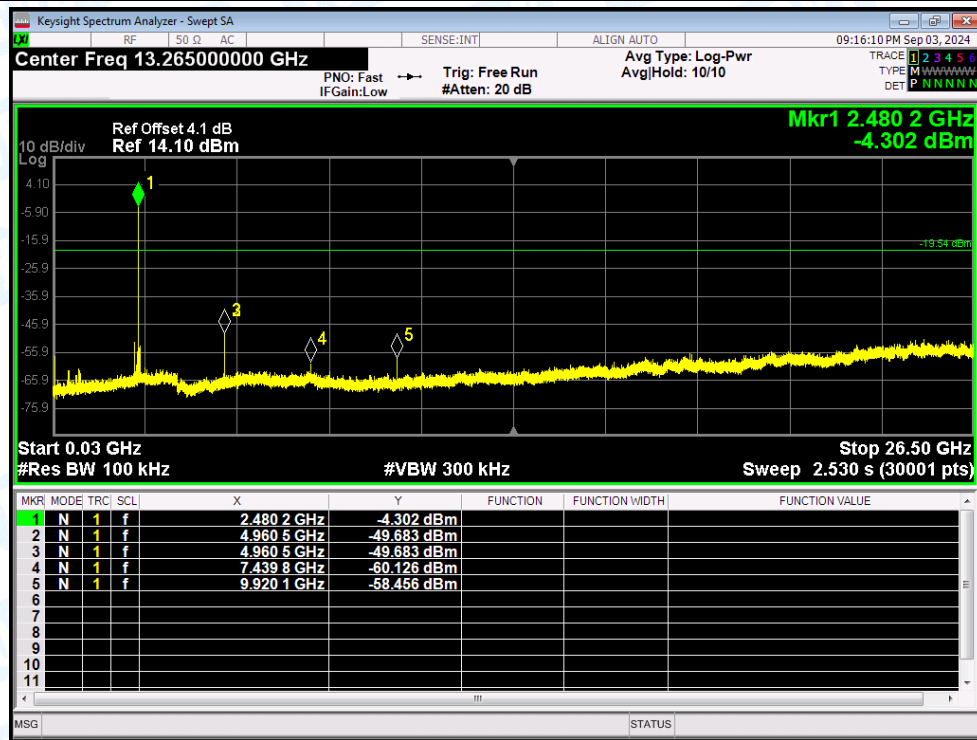
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



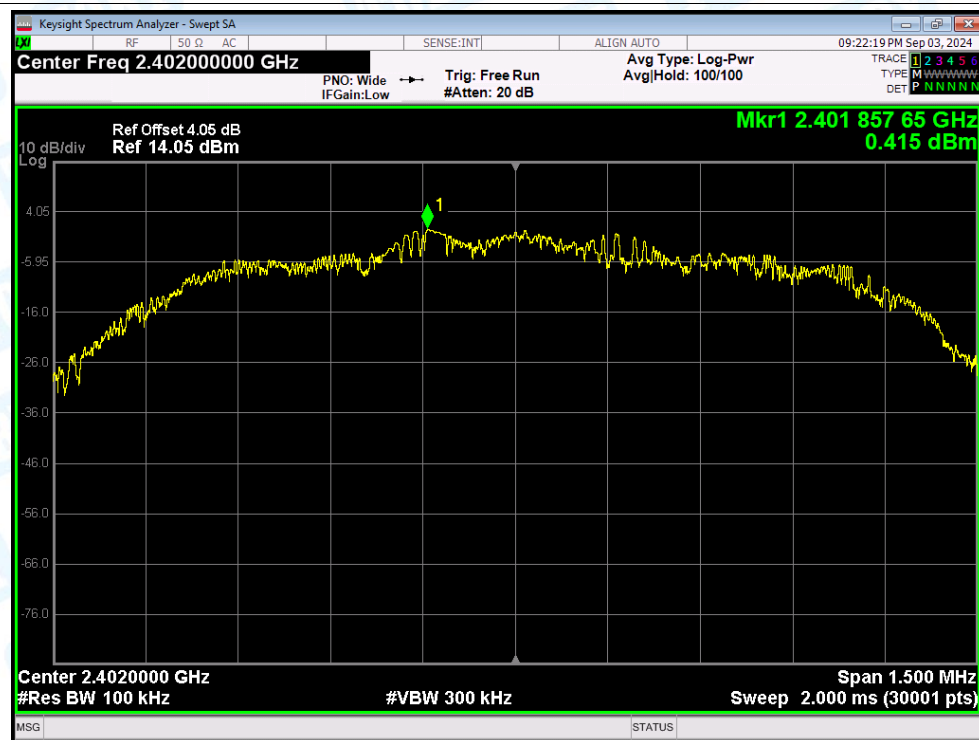
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



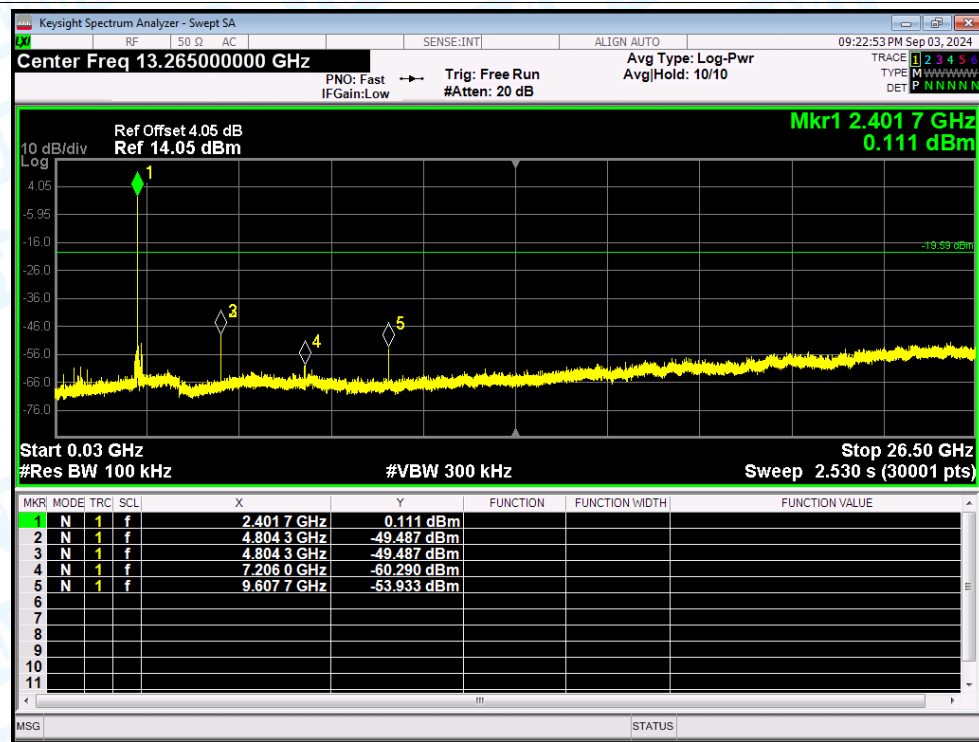
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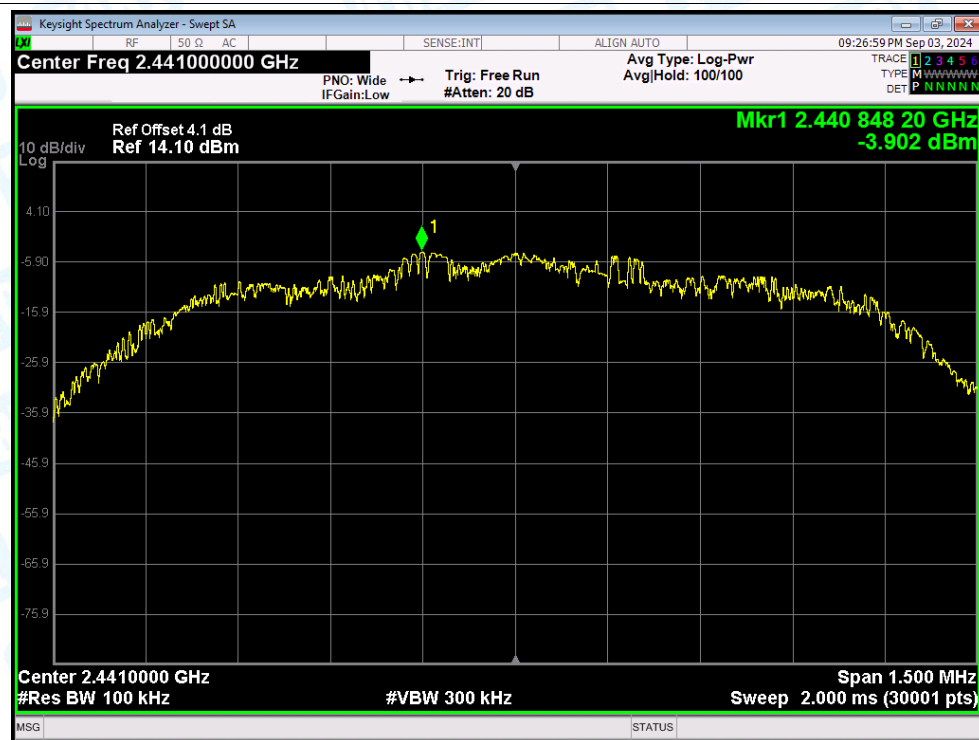
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



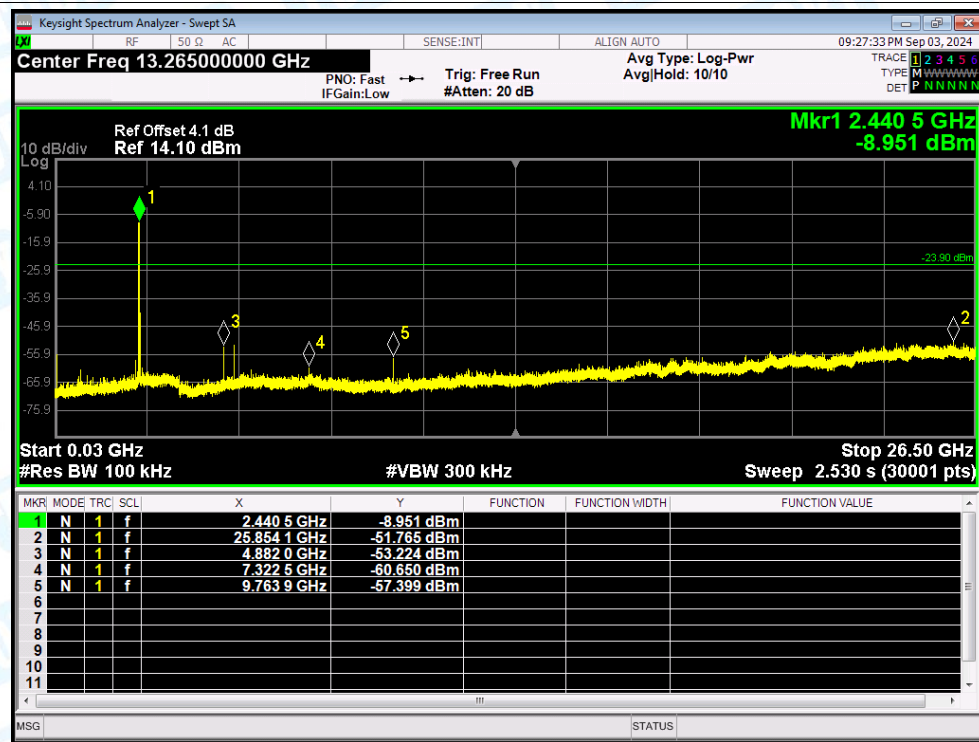
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



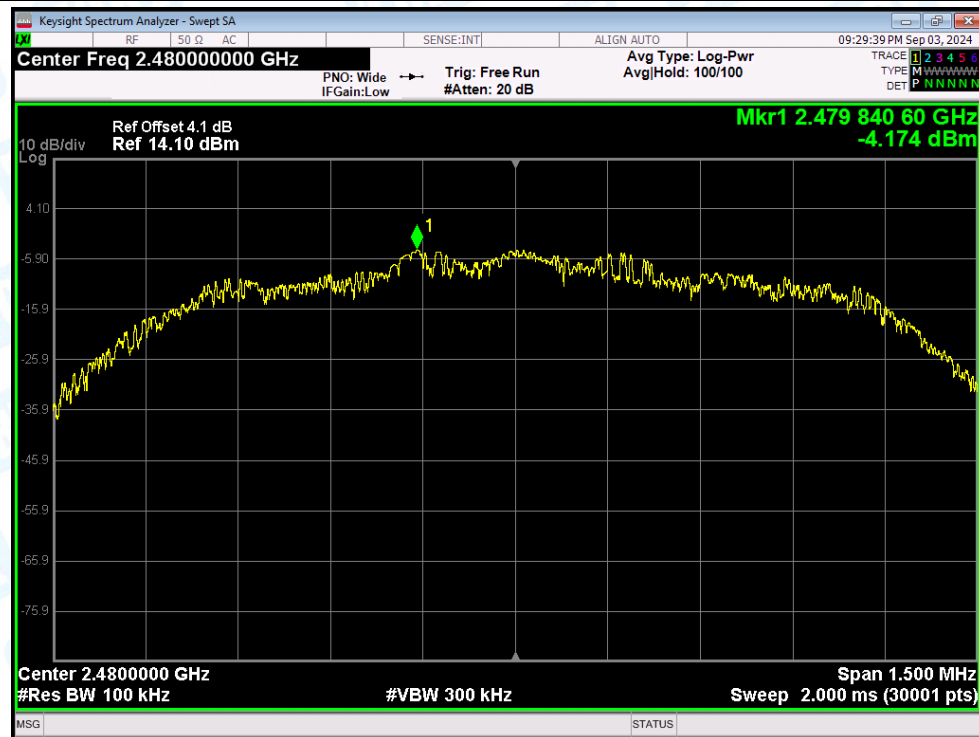
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



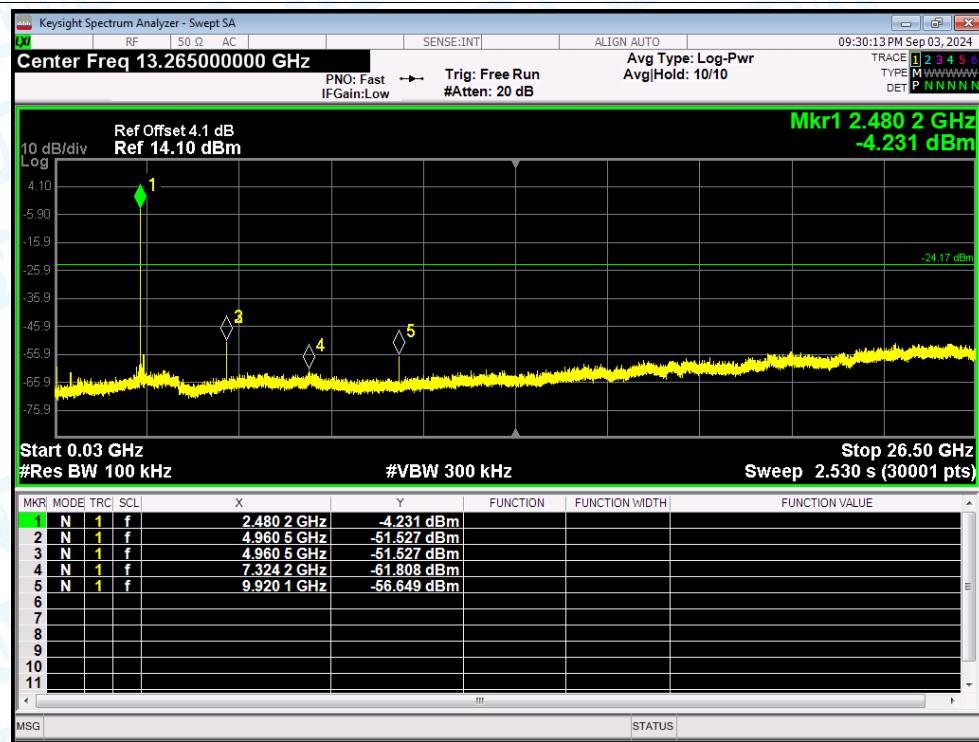
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

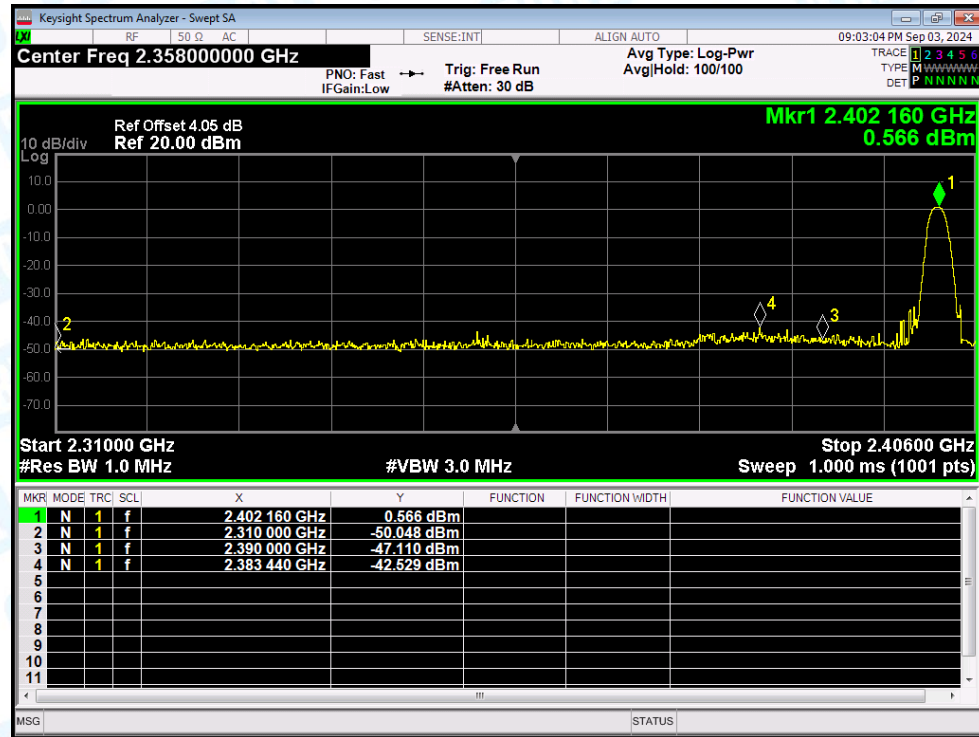


8. Restrict Band

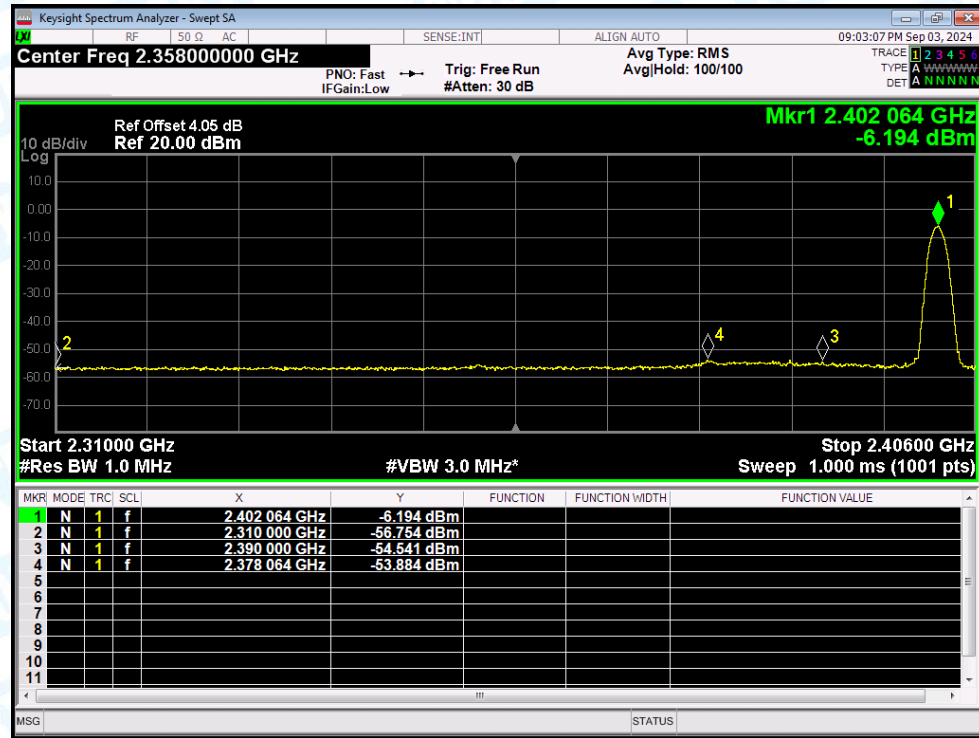
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-50.05	2	-	47.21	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.75	2	5.29	45.8	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2383.44	-42.53	2	-	54.73	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2378.064	-53.88	2	5.29	48.67	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.11	2	-	50.15	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-54.54	2	5.29	48.01	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-48.98	2	-	48.28	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-56.28	2	5.17	46.15	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.728	-40.19	2	-	57.07	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2496.136	-53.88	2	5.17	48.55	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-45.95	2	-	51.31	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.42	2	5.17	48.01	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-50.73	2	-	46.53	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.98	2	5.06	45.34	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2387.568	-43.08	2	-	54.18	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2386.608	-54.54	2	5.06	47.78	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-45.75	2	-	51.51	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.59	2	5.06	46.73	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-48.33	2	-	48.93	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-56	2	5.17	46.43	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.608	-38.52	2	-	58.74	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2495.488	-53.76	2	5.17	48.67	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-44.46	2	-	52.8	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-54.45	2	5.17	47.98	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.65	2	-	48.61	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.53	2	5.06	45.79	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2384.592	-43.68	2	-	53.58	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2381.616	-54.34	2	5.06	47.98	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.17	2	-	50.09	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.61	2	5.06	46.71	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-48.43	2	-	48.83	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.84	2	5.06	46.48	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2495.104	-44.79	2	-	52.47	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2493.16	-54.89	2	5.06	47.43	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-45.39	2	-	51.87	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.4	2	5.06	46.92	Average	54	Pass

Test Graphs

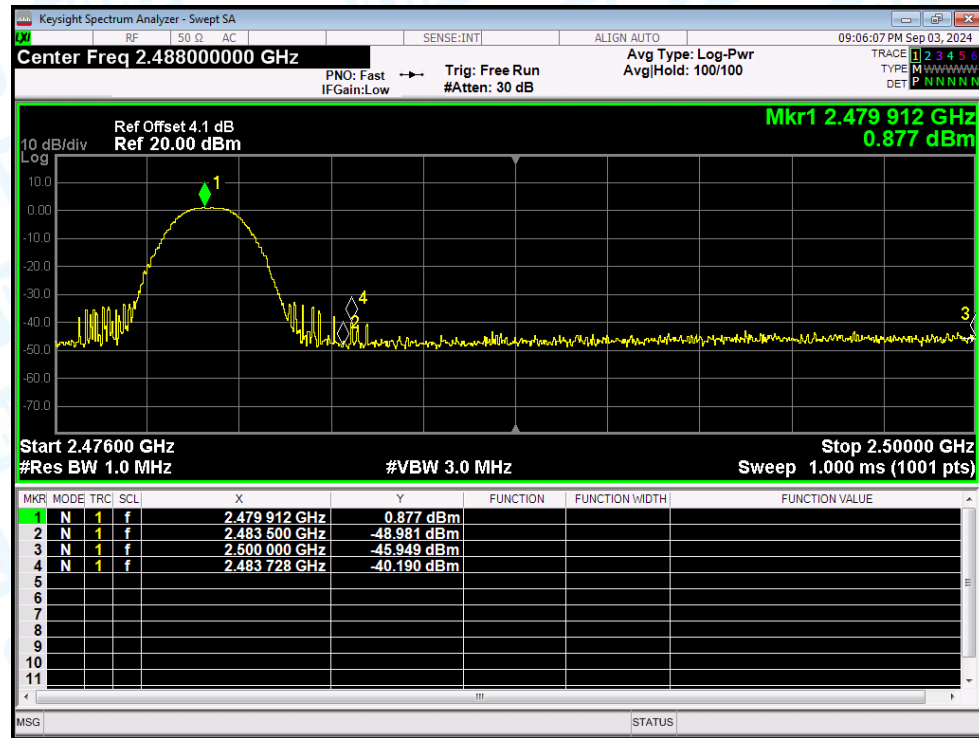
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



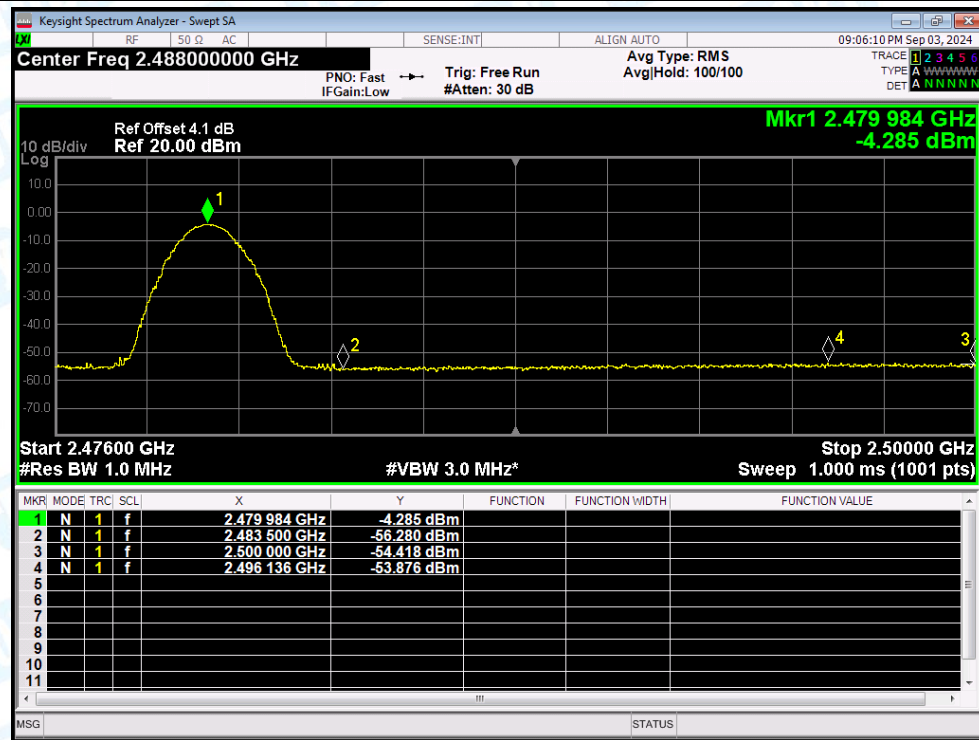
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



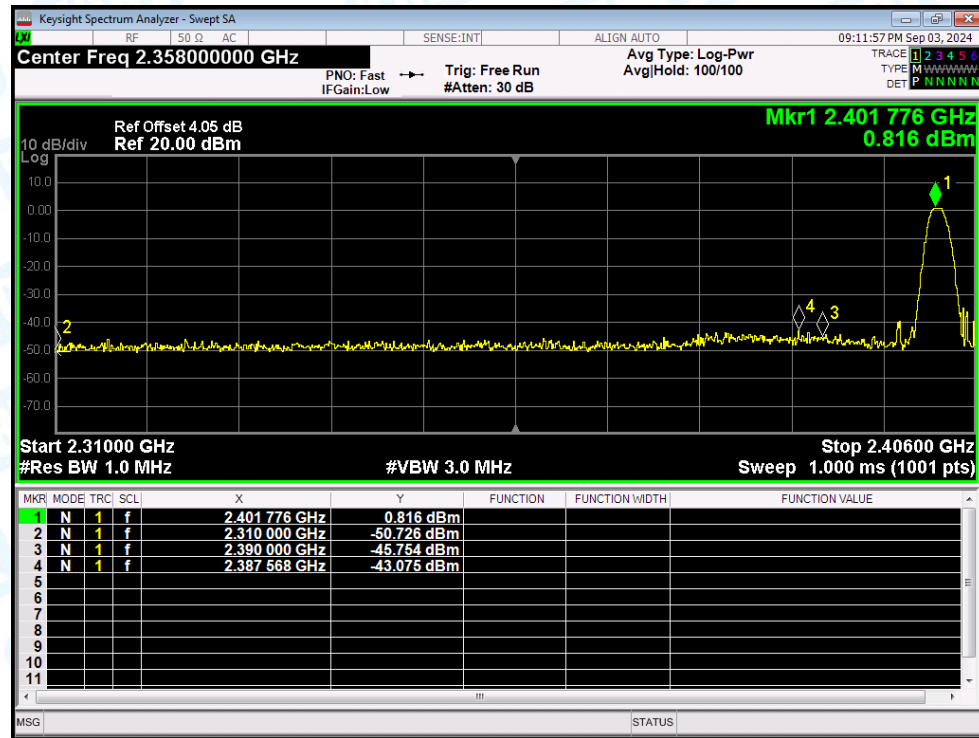
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



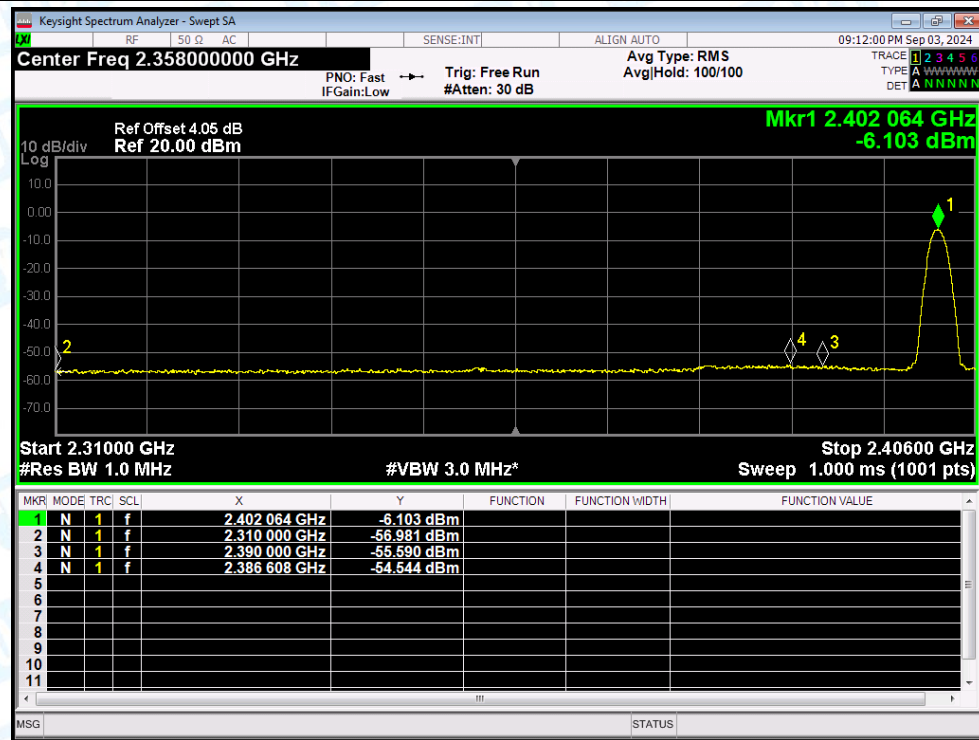
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



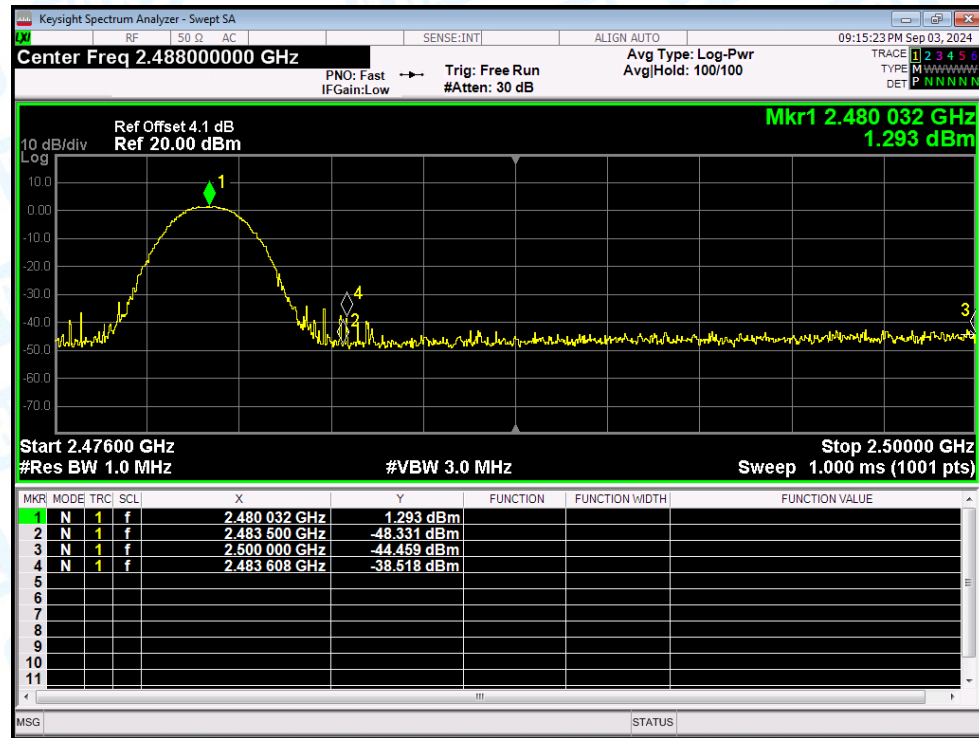
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



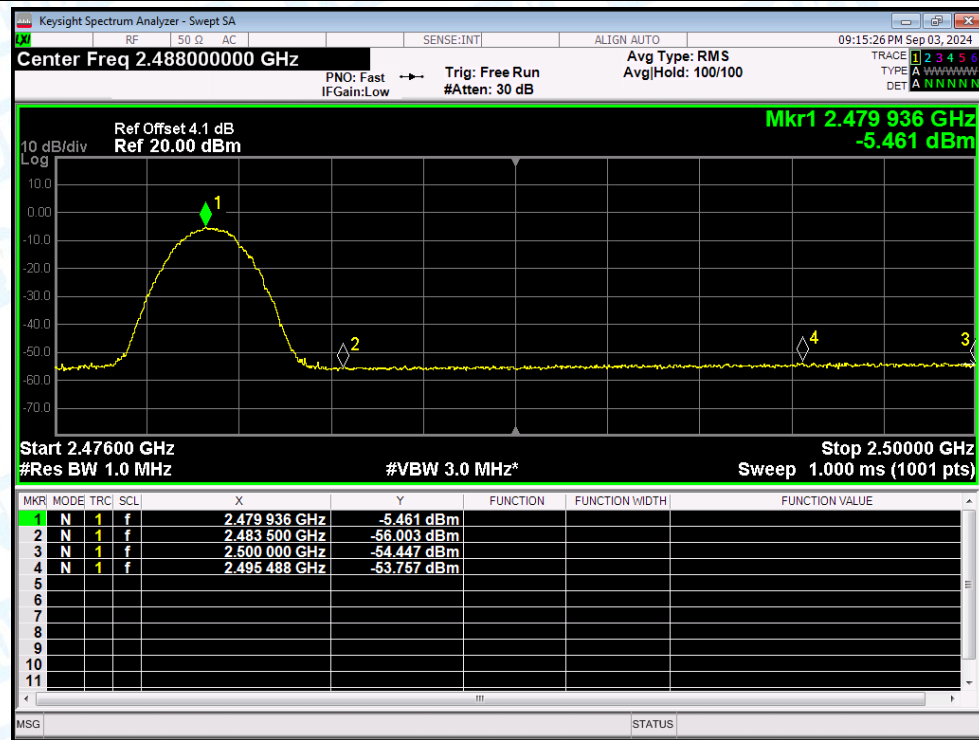
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



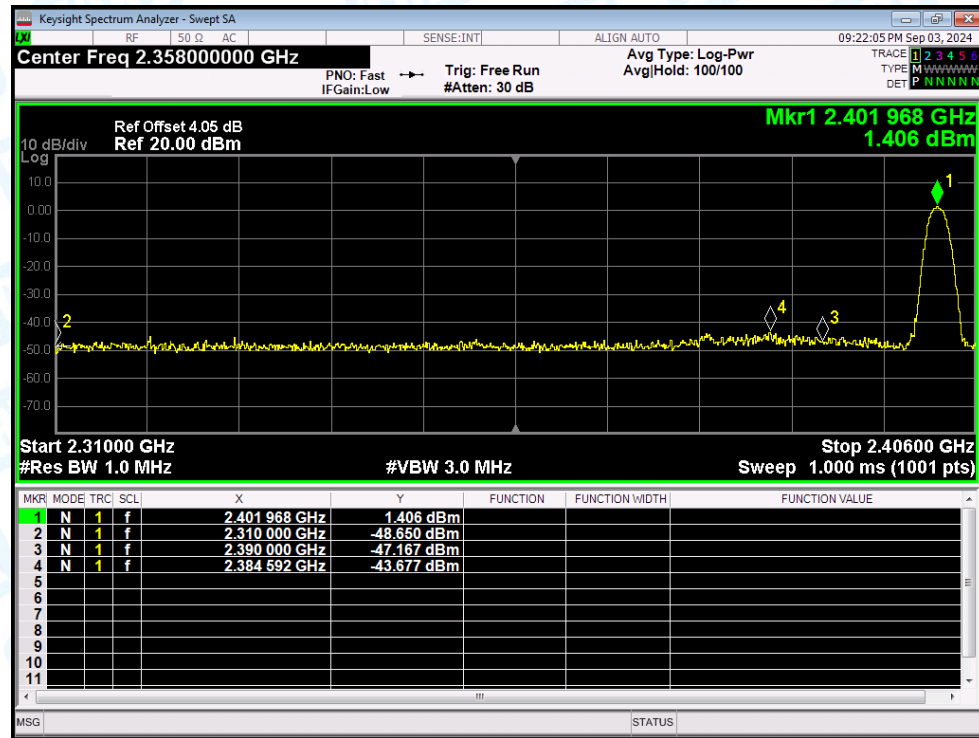
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



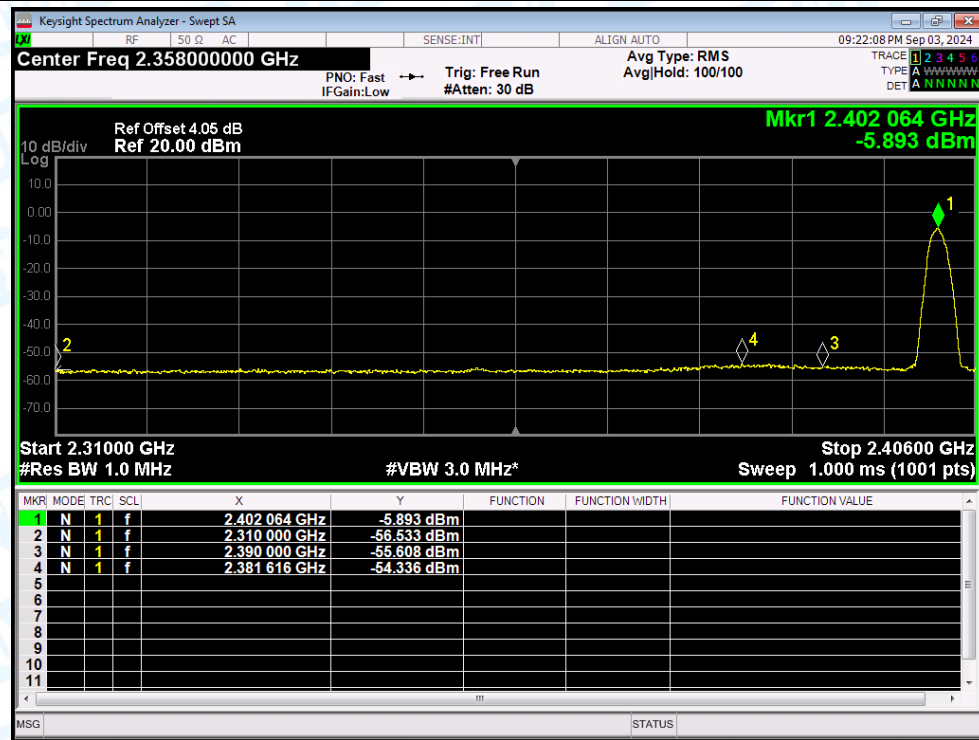
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



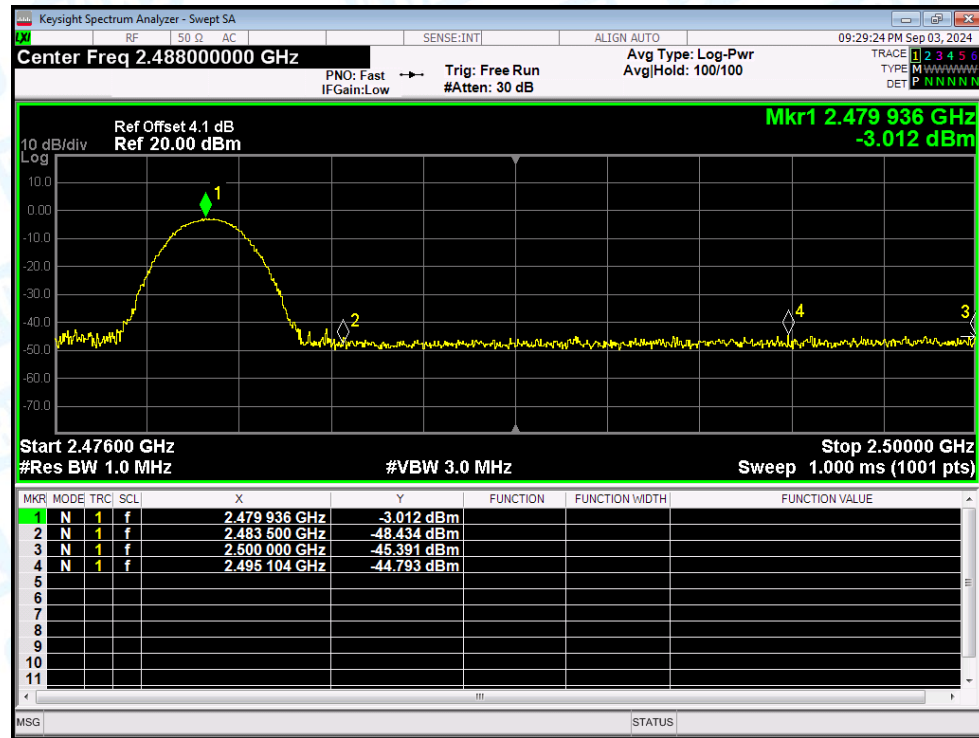
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



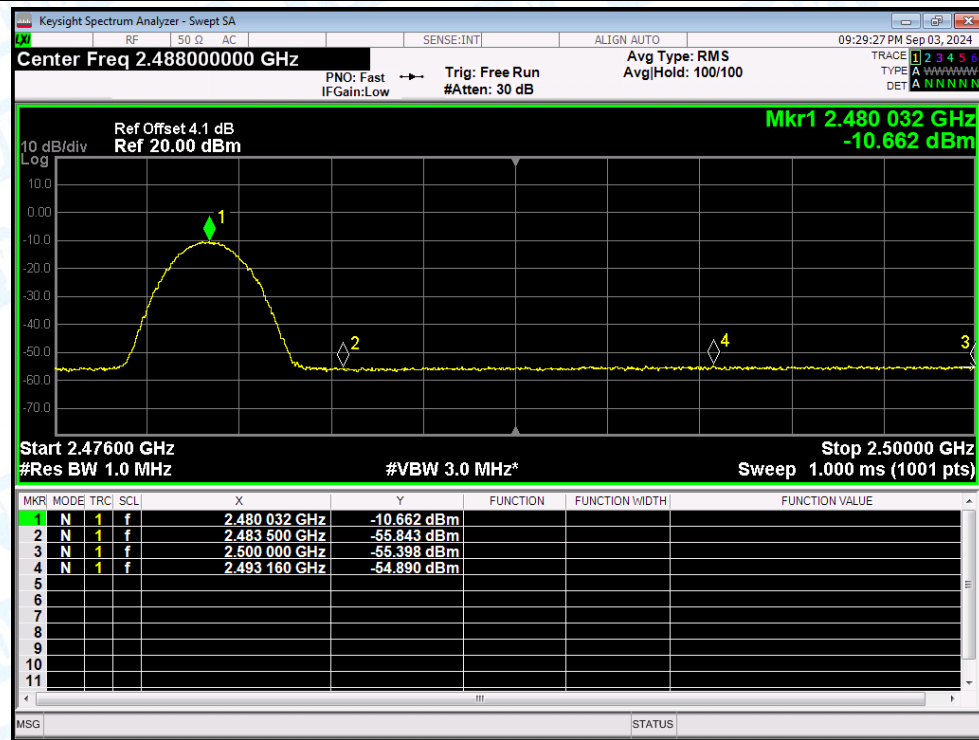
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

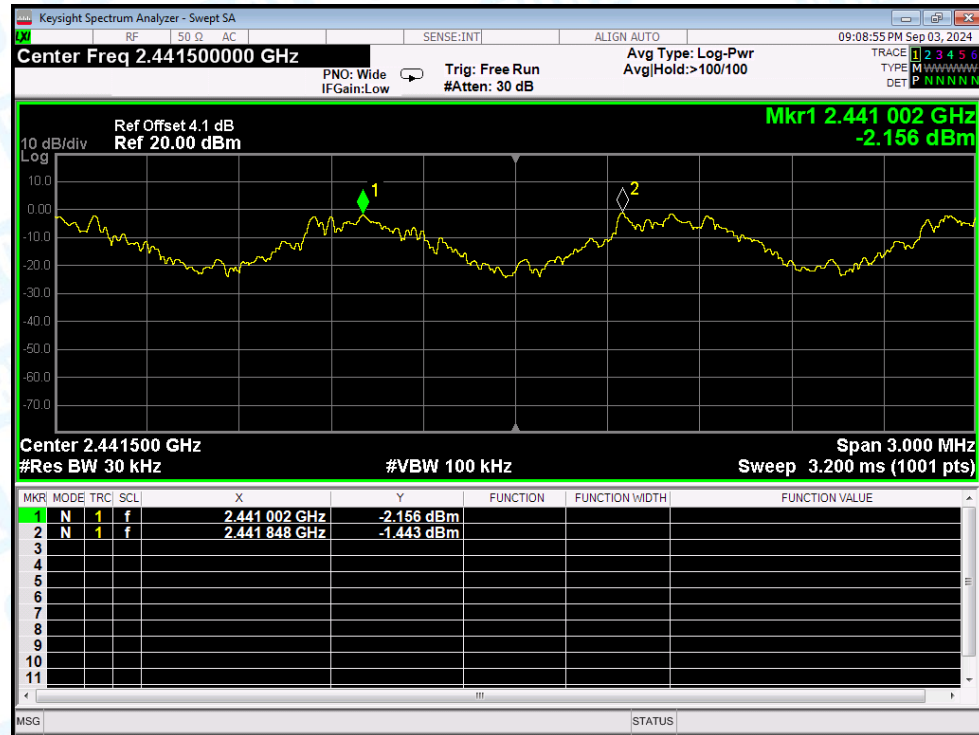


9. Carrier Frequencies Separation

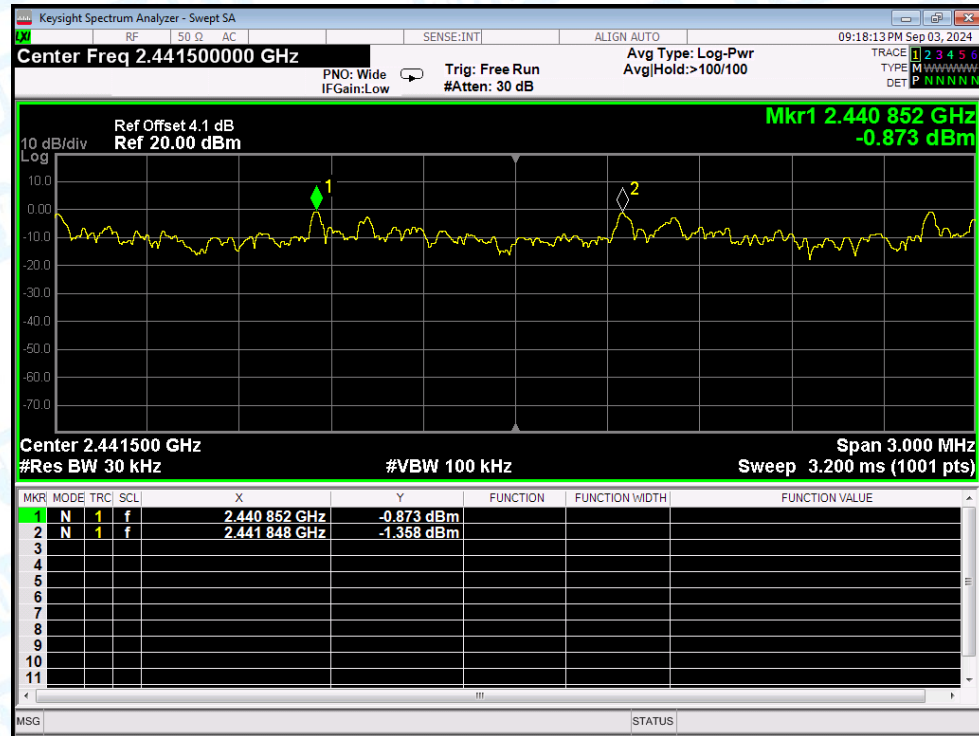
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.002	2441.848	0.846	0.687	Pass
NVNT	2-DH1	Ant1	2440.852	2441.848	0.996	0.853	Pass
NVNT	3-DH1	Ant1	2440.846	2441.857	1.011	0.833	Pass

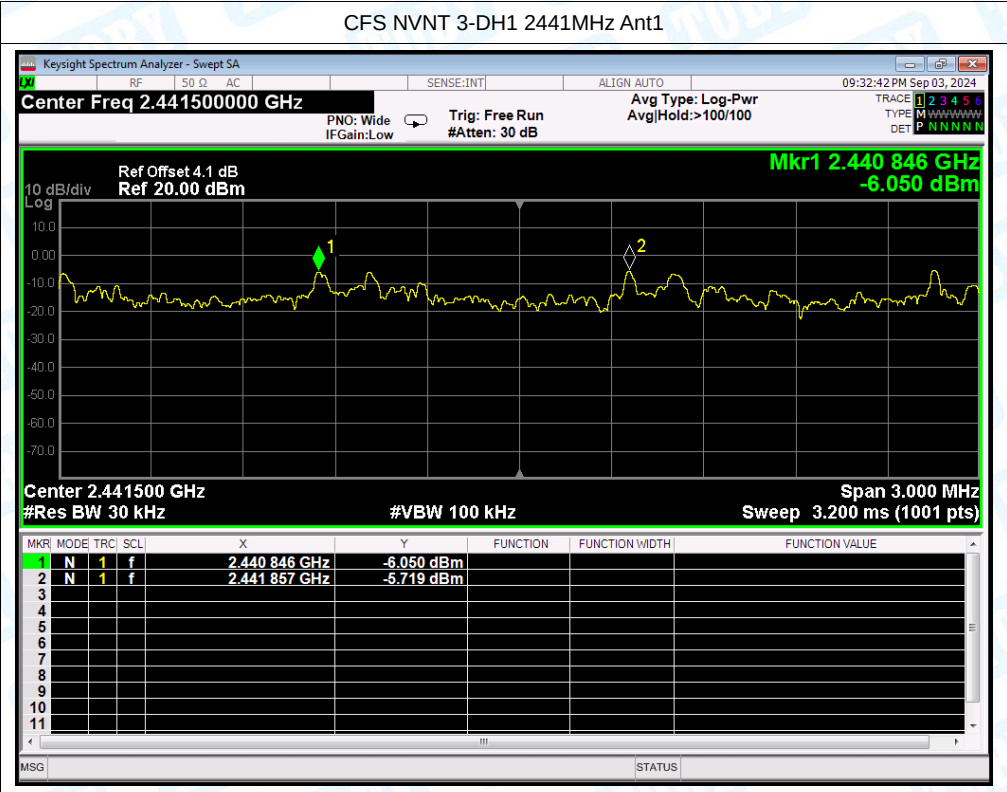
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



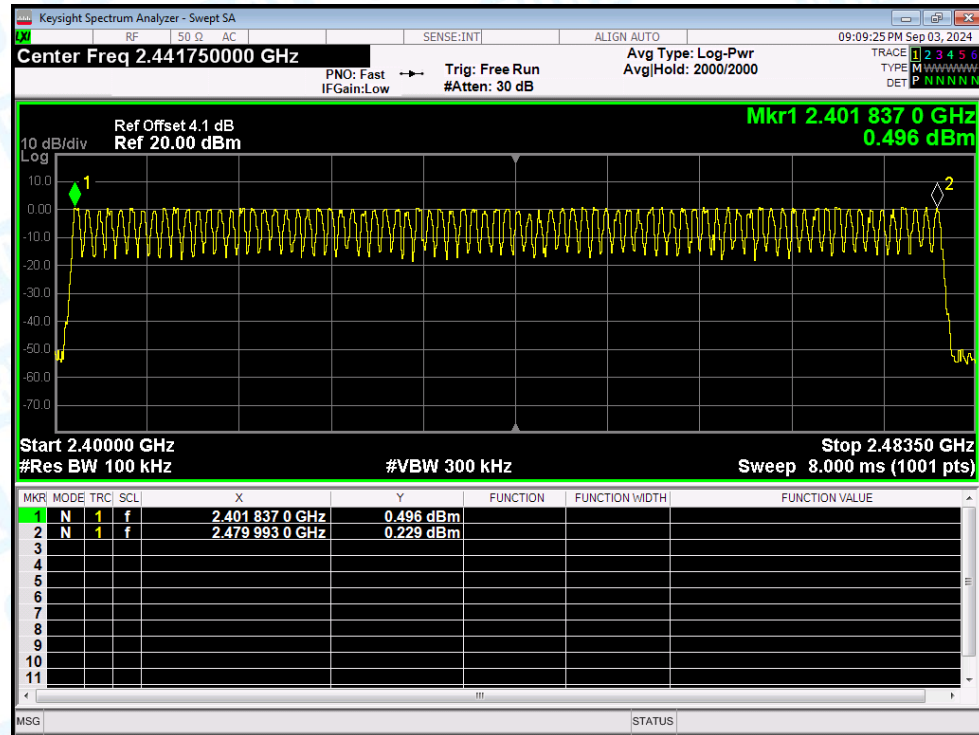


10. Number of Hopping Channel

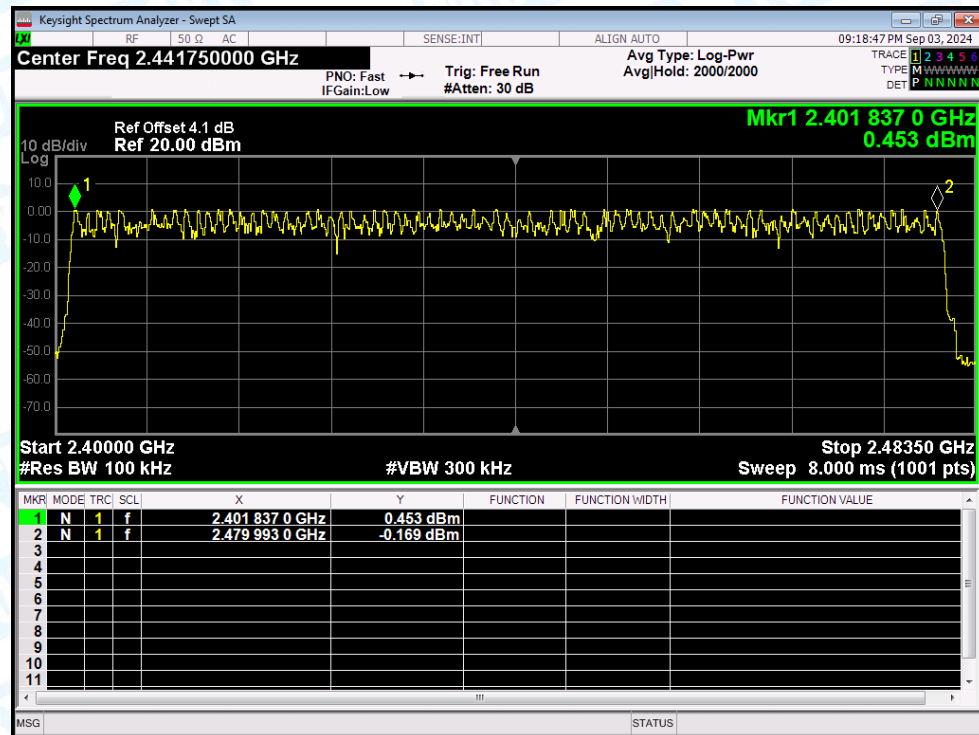
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

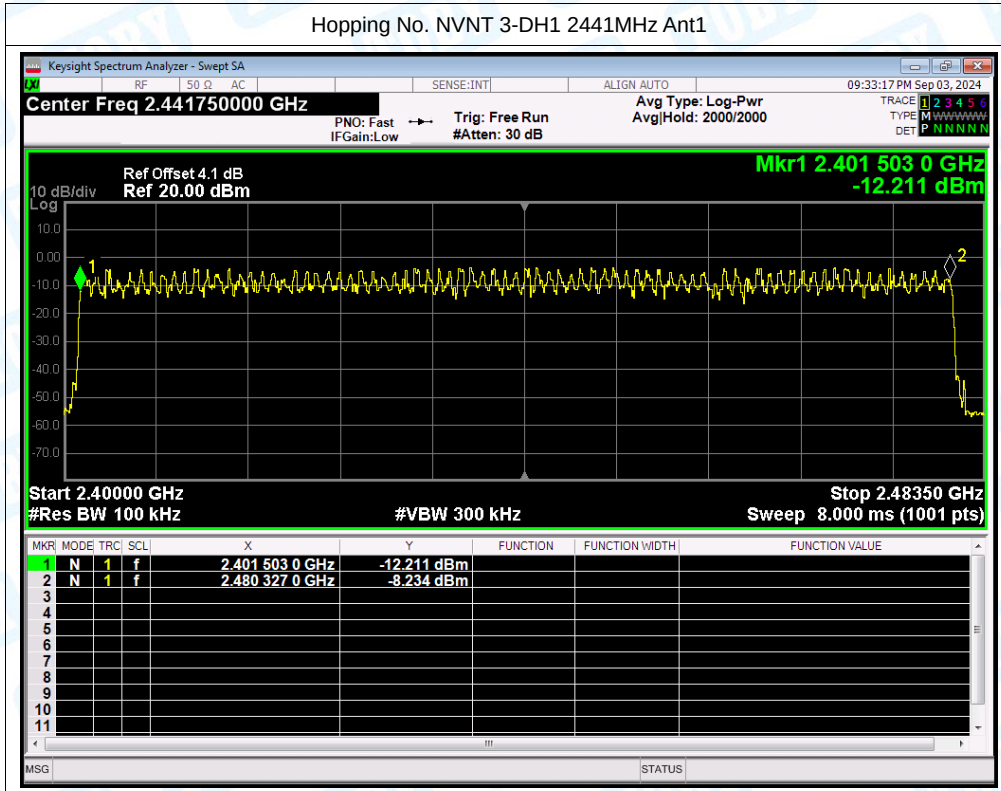
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



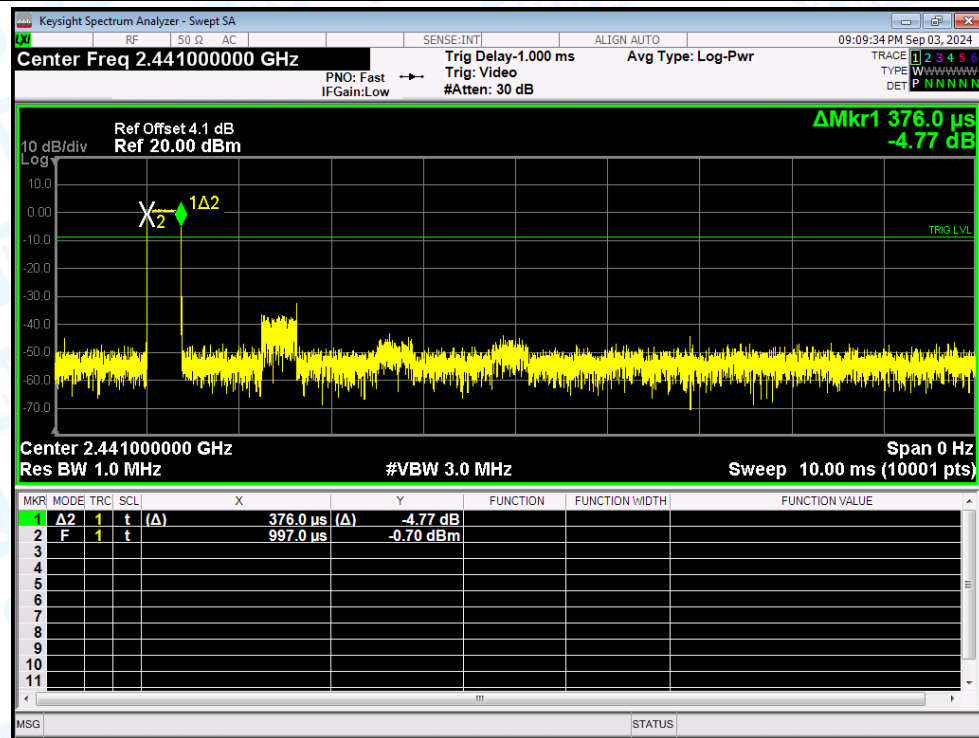


11. Dwell Time

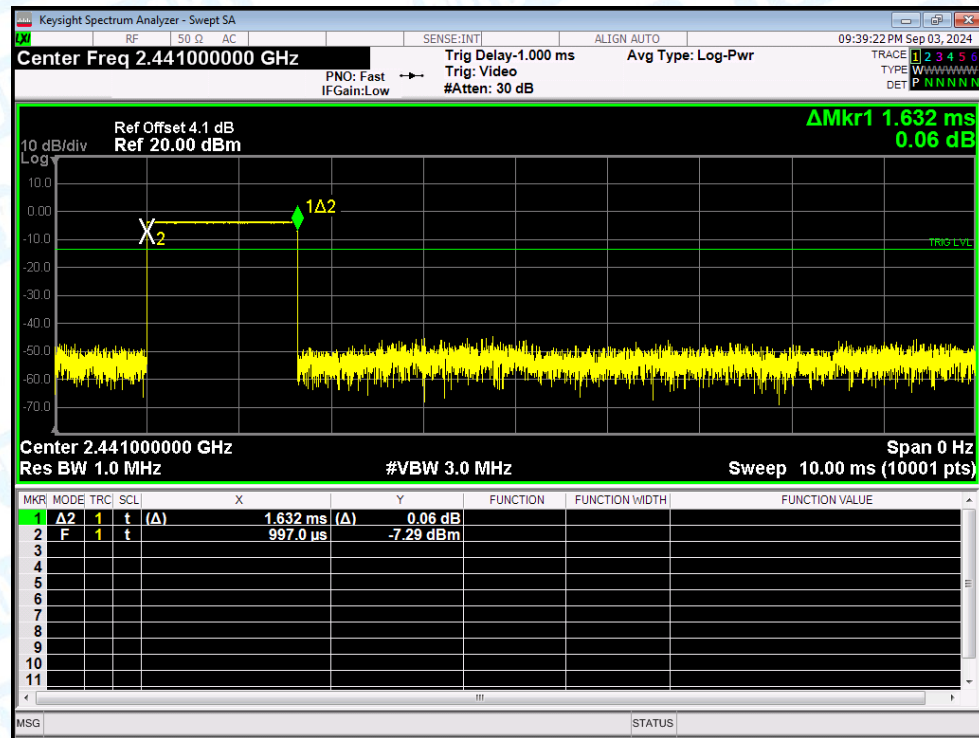
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.376	120.32	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.386	123.52	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.638	262.08	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.886	307.84	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.386	123.52	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

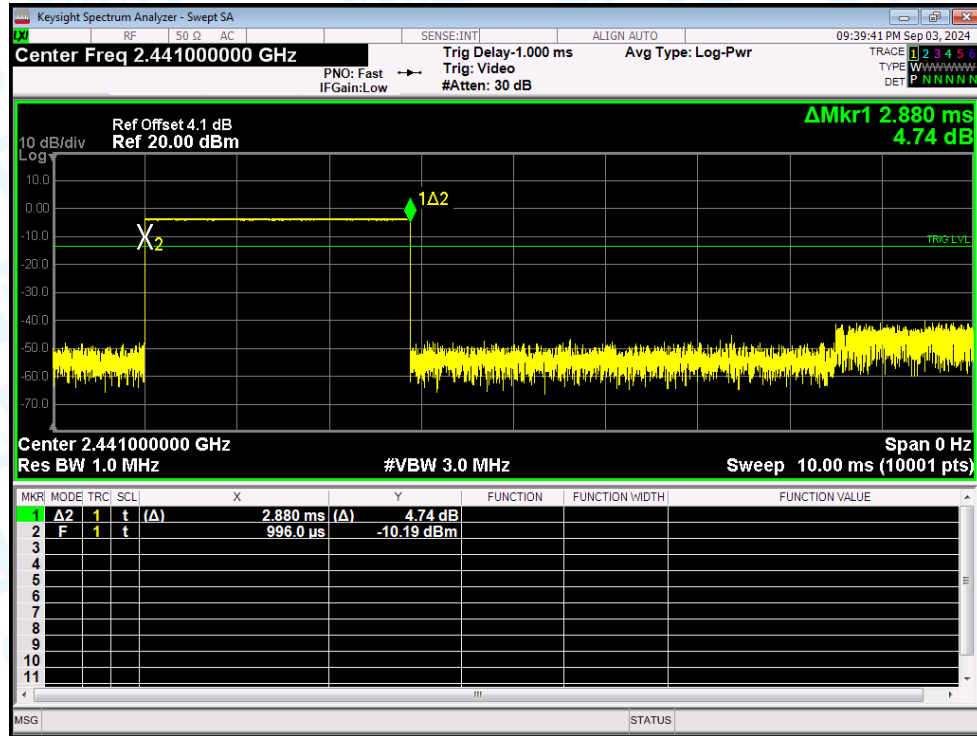
Dwell NVNT 1-DH1 2441MHz Ant1



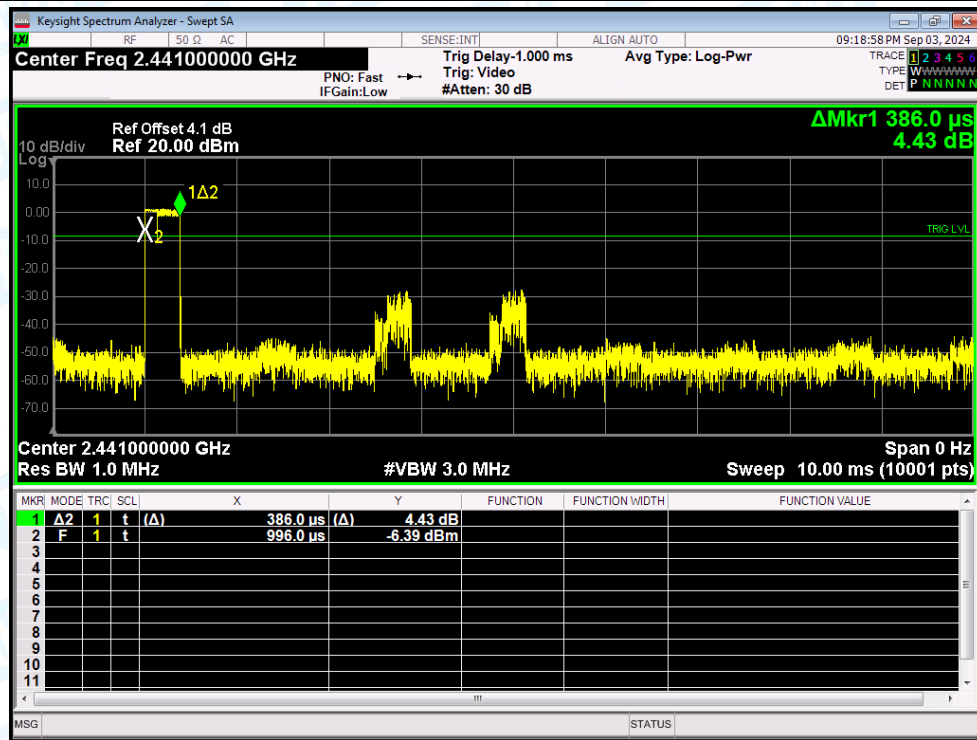
Dwell NVNT 1-DH3 2441MHz Ant1



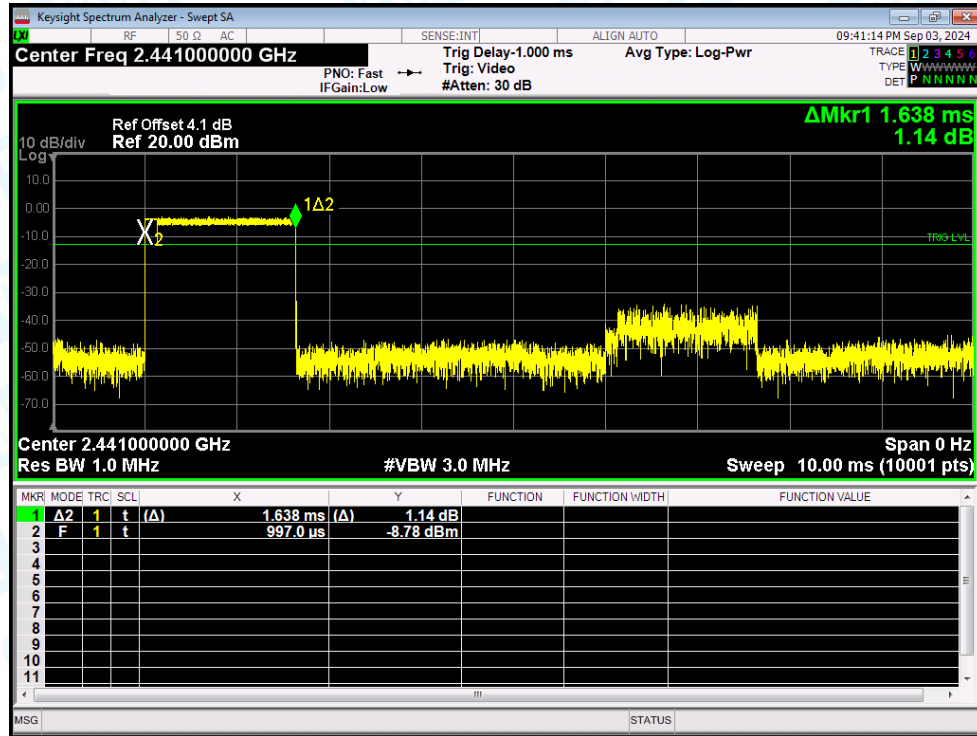
Dwell NVNT 1-DH5 2441MHz Ant1



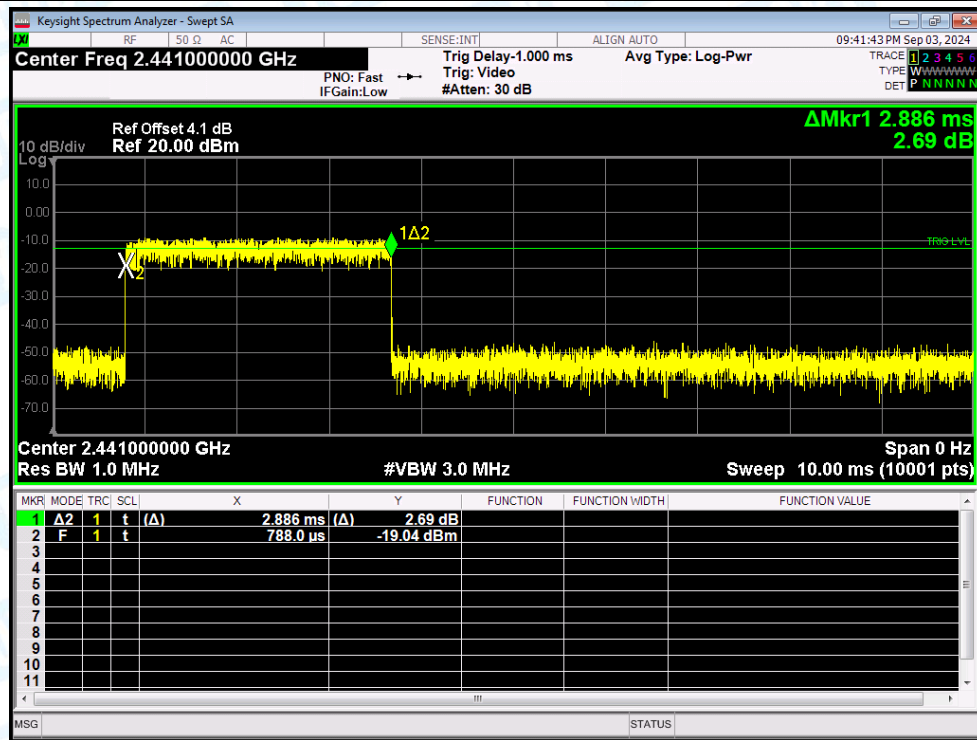
Dwell NVNT 2-DH1 2441MHz Ant1



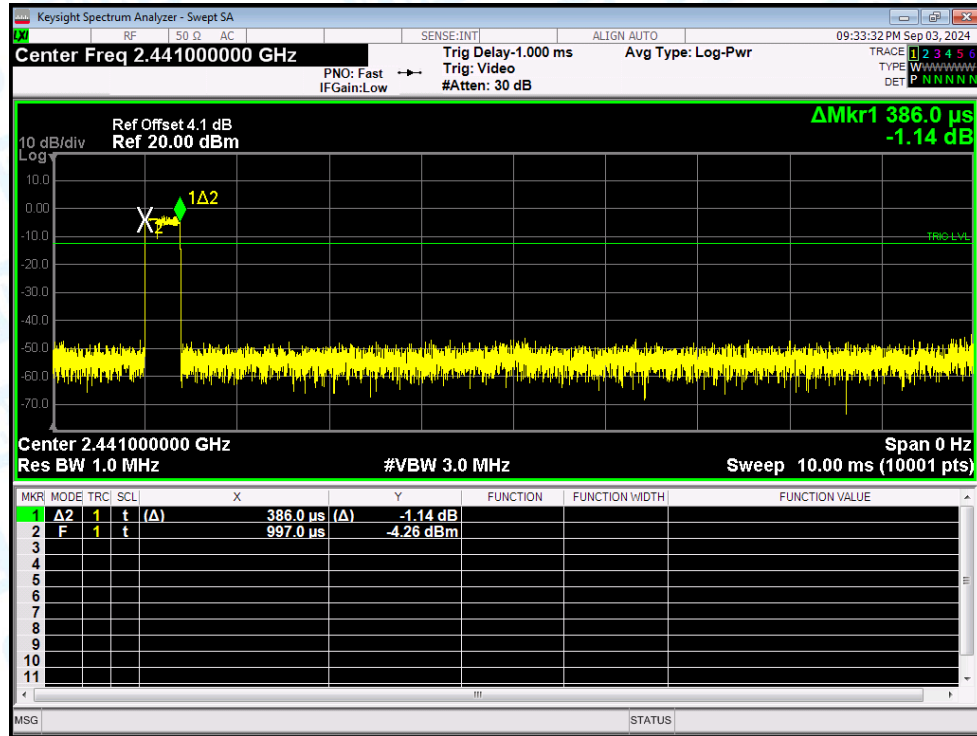
Dwell NVNT 2-DH3 2441MHz Ant1



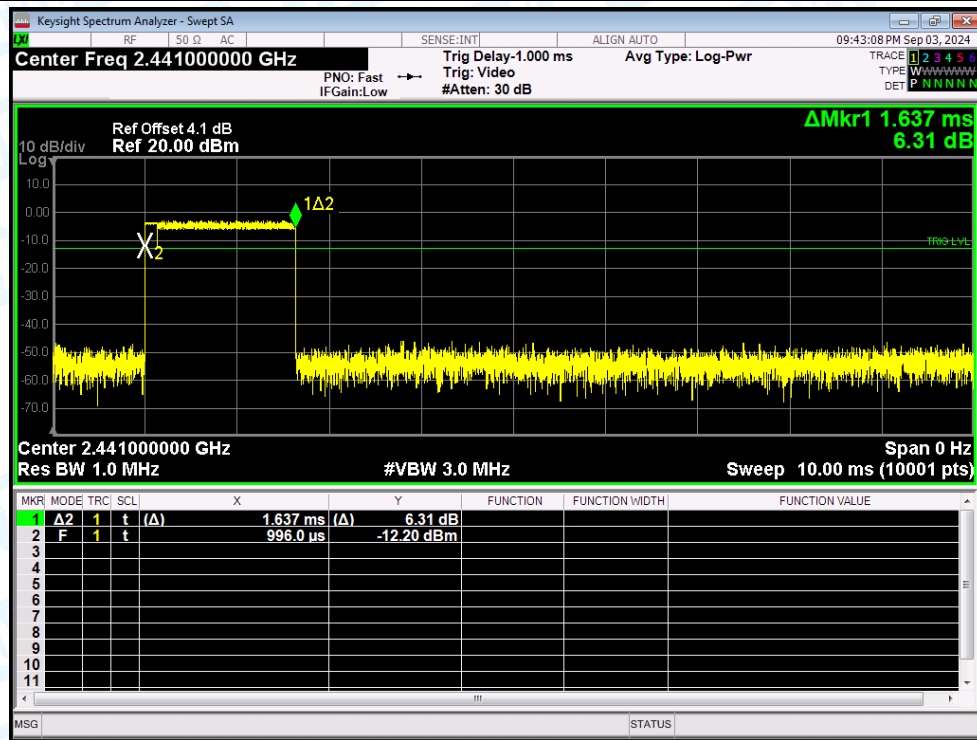
Dwell NVNT 2-DH5 2441MHz Ant1

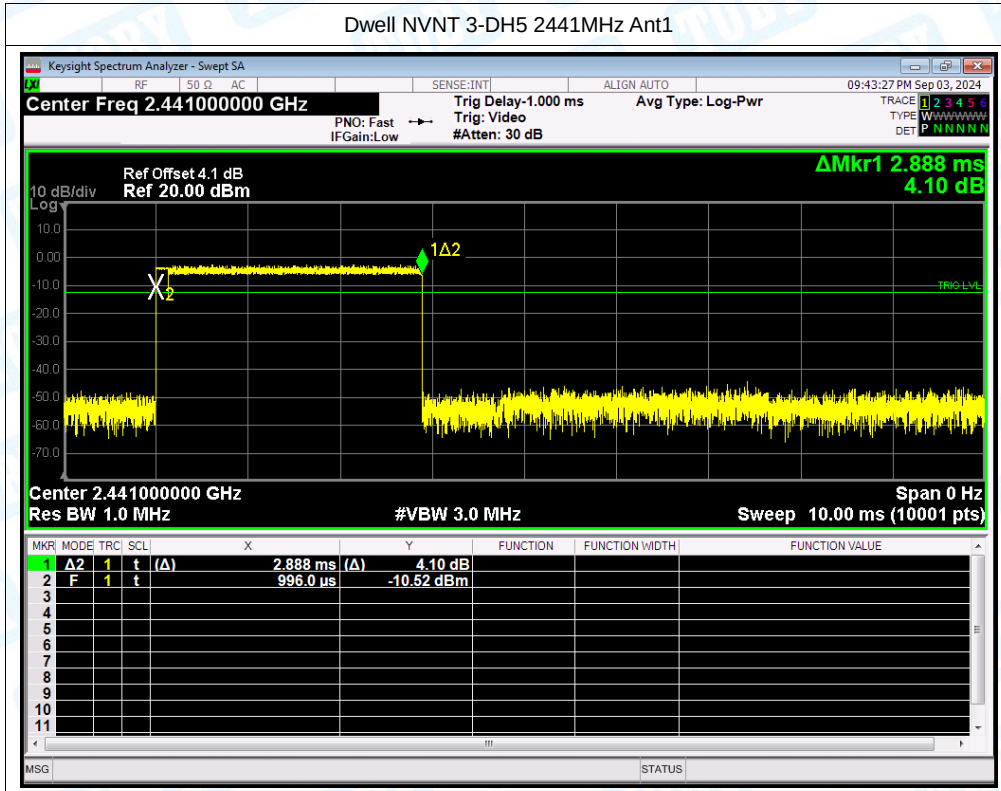


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





---- END OF REPORT ----