

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Headset
Test Model:	P959
Sample ID:	HC-C-202406-0170-01-01
Environmental Conditions	
Temperature:	24.6°C
Relative Humidity:	52.6%
Test Voltage:	DC 3.7V
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202406-0170-3 The report only show the worst case data.	

Contents

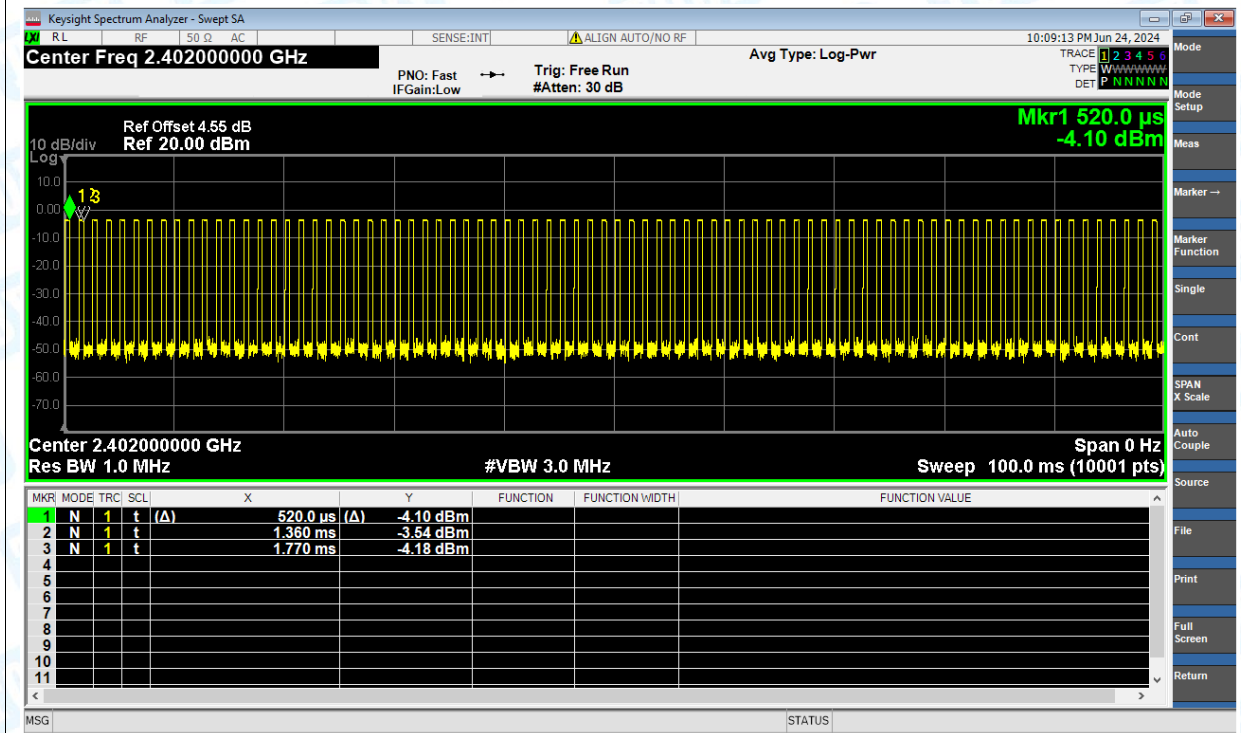
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1. Duty Cycle

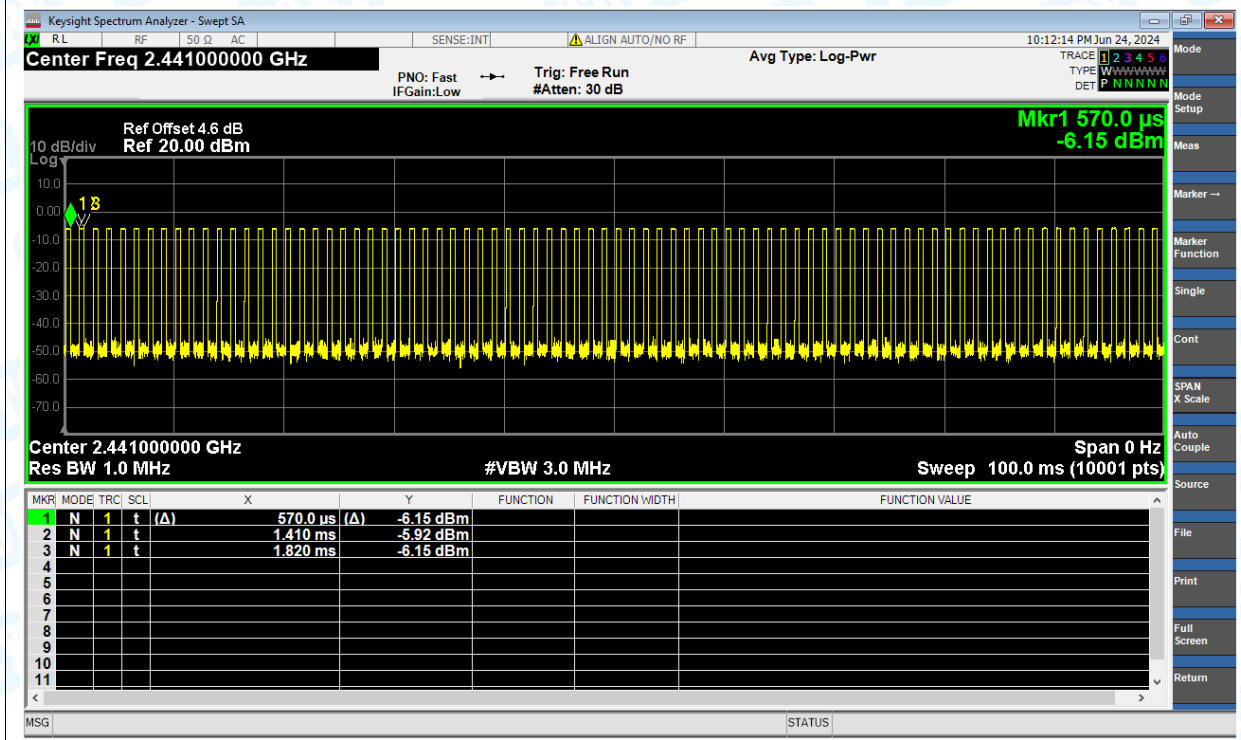
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2402	Ant1	34.4	4.63	2.33
NVNT	2-DH1	2441	Ant1	33.6	4.74	2.38
NVNT	2-DH1	2480	Ant1	34.4	4.63	2.33
NVNT	3-DH1	2402	Ant1	34.4	4.63	2.33
NVNT	3-DH1	2441	Ant1	33.6	4.74	2.38
NVNT	3-DH1	2480	Ant1	33.6	4.74	2.38

Test Graphs

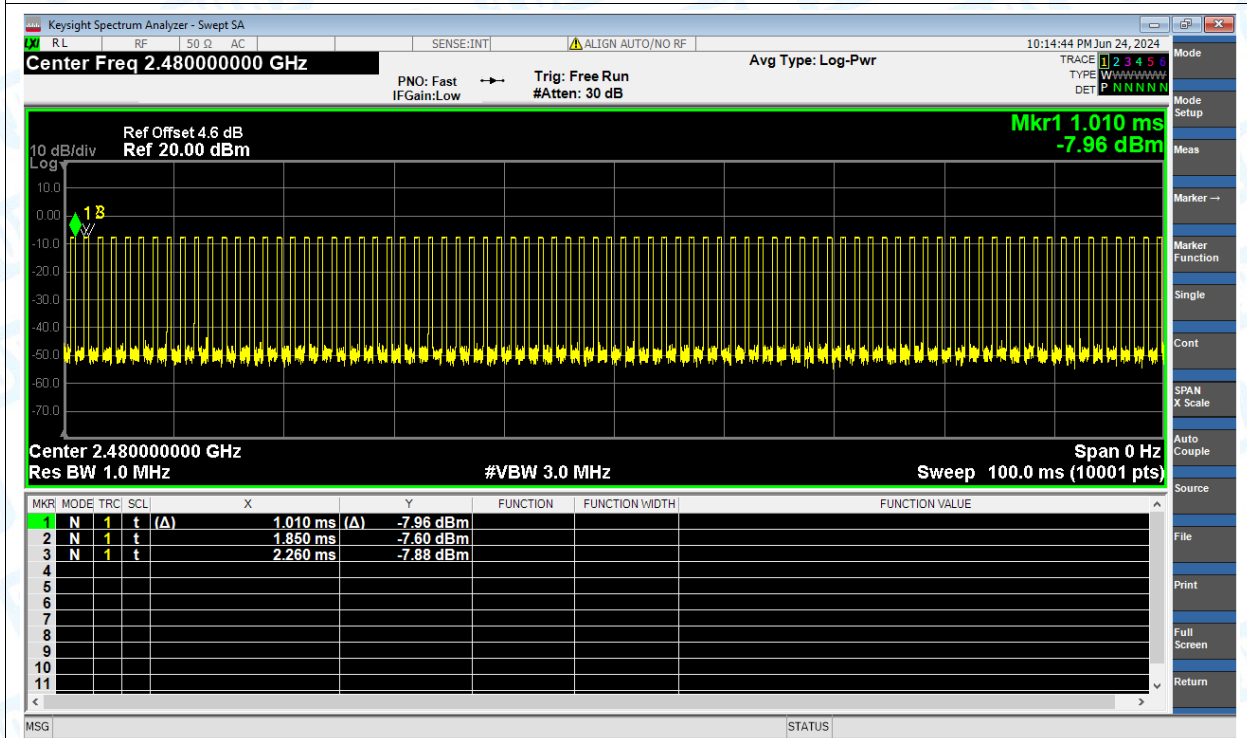
Duty Cycle NVNT 1-DH1 2402MHz Ant1



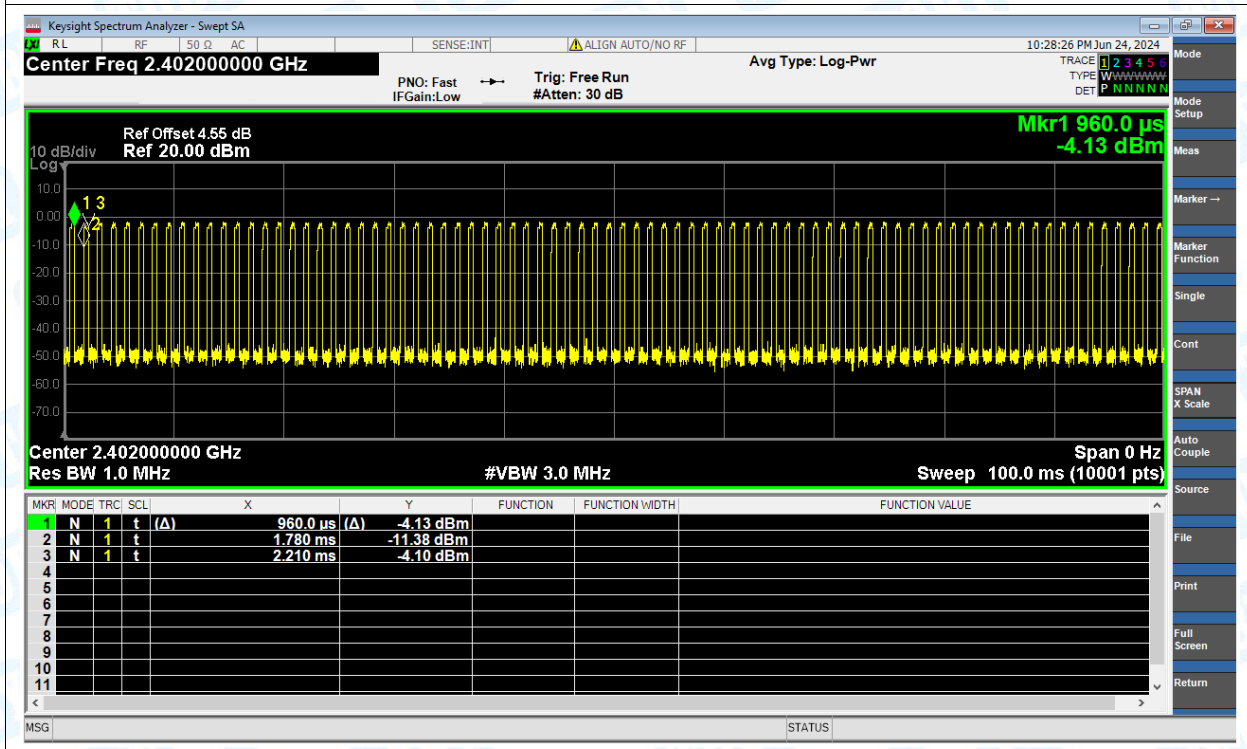
Duty Cycle NVNT 1-DH1 2441MHz Ant1



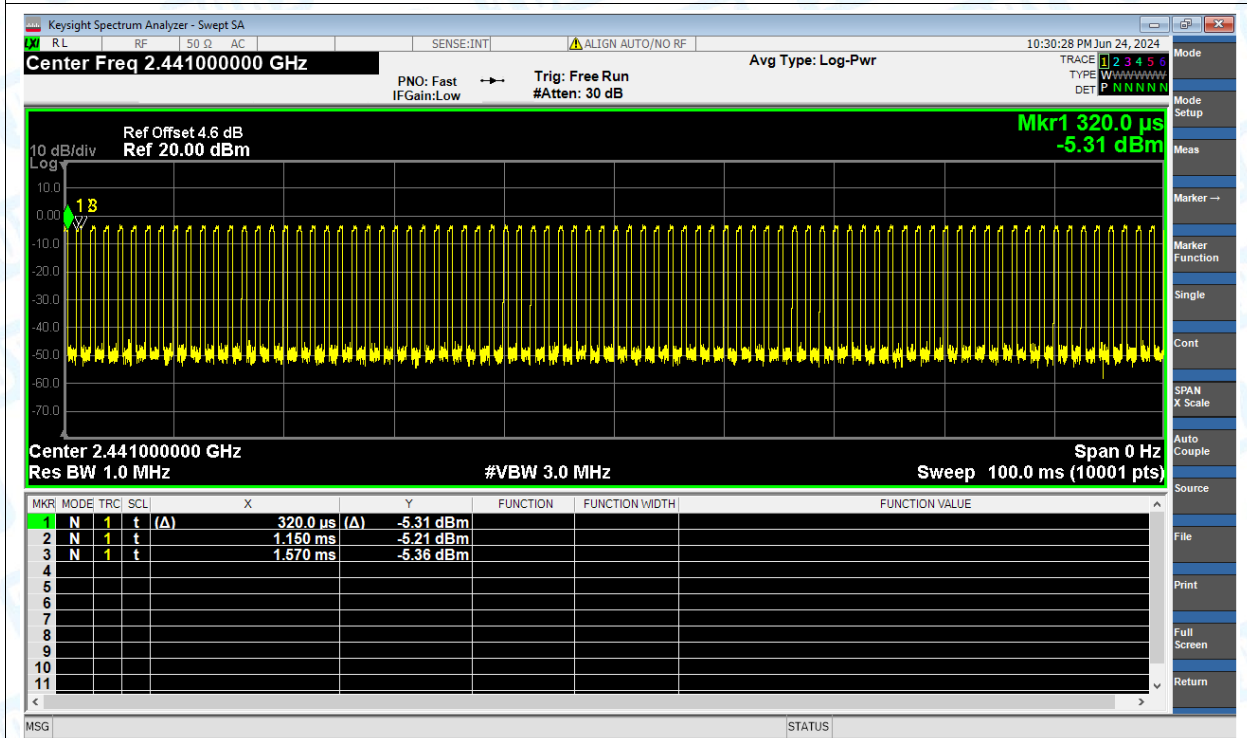
Duty Cycle NVNT 1-DH1 2480MHz Ant1



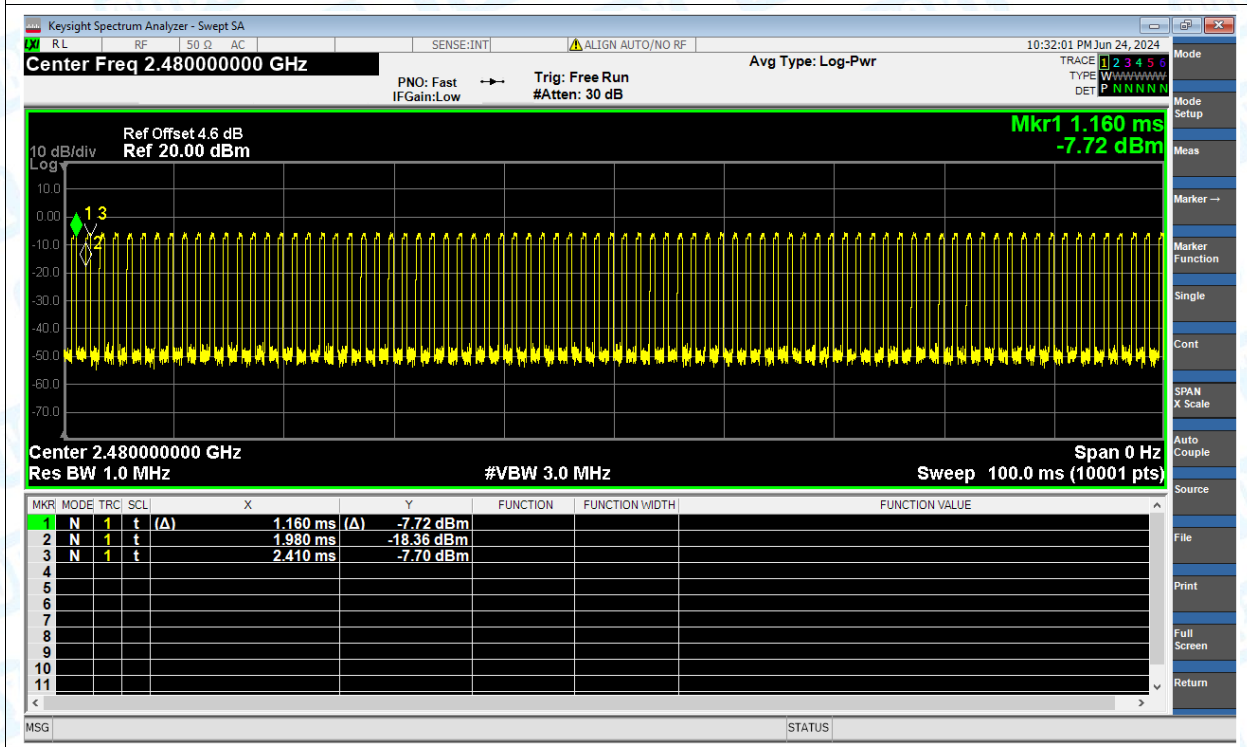
Duty Cycle NVNT 2-DH1 2402MHz Ant1



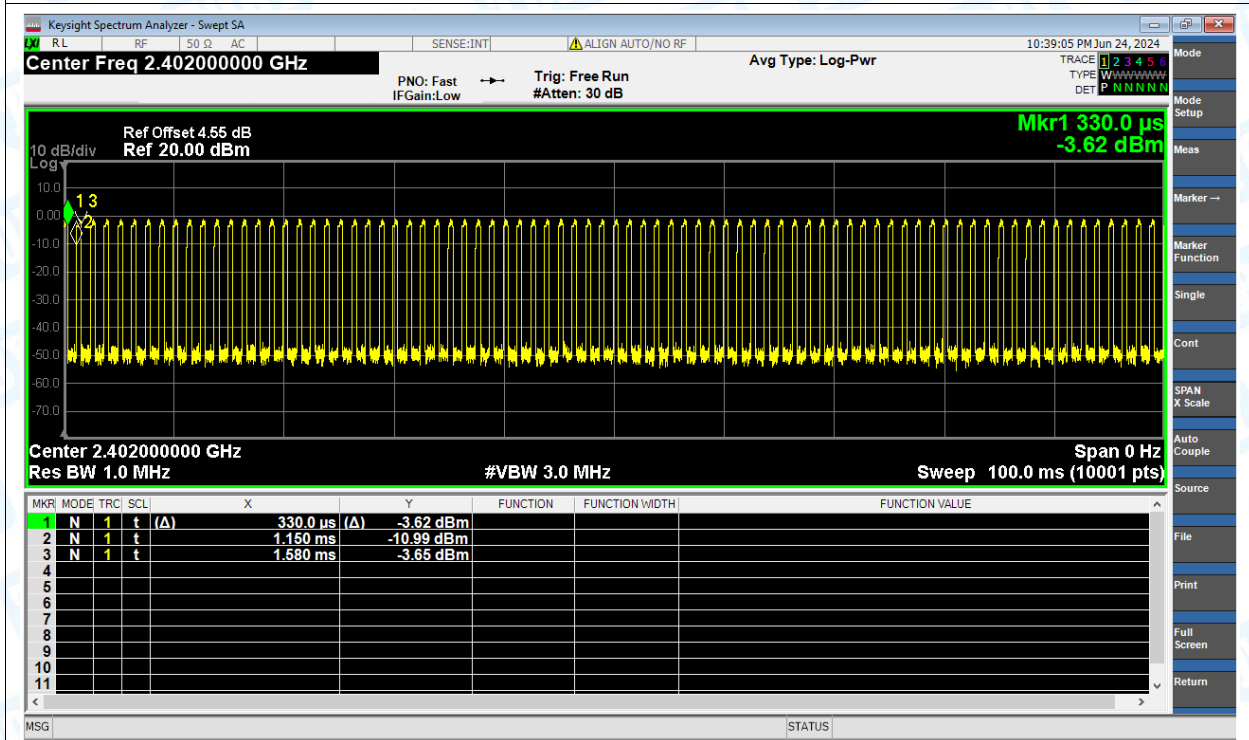
Duty Cycle NVNT 2-DH1 2441MHz Ant1



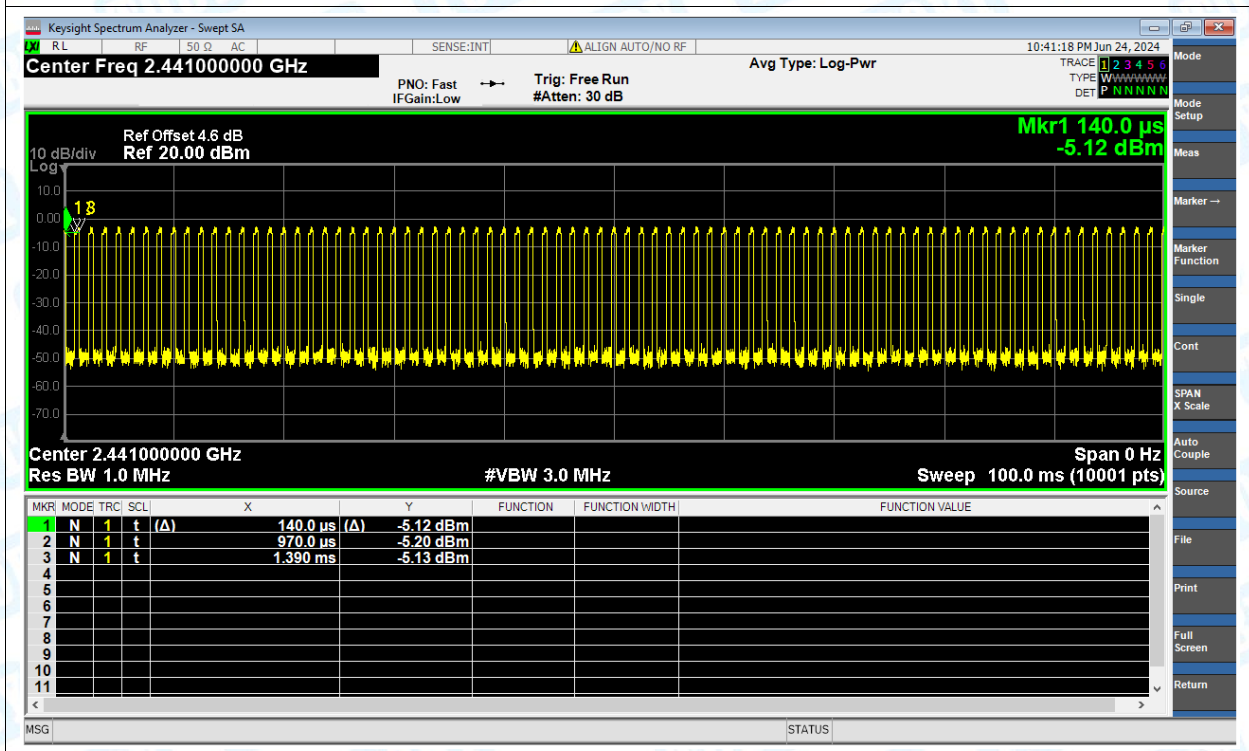
Duty Cycle NVNT 2-DH1 2480MHz Ant1

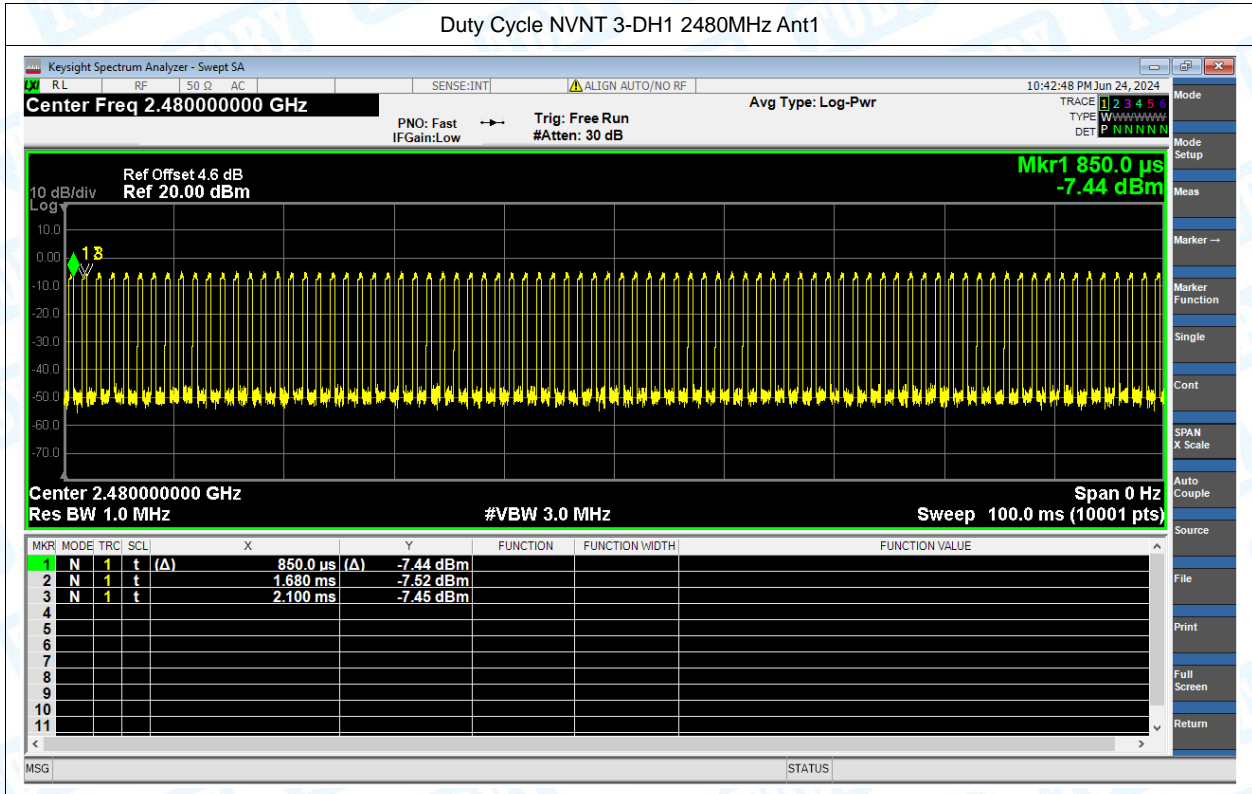


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



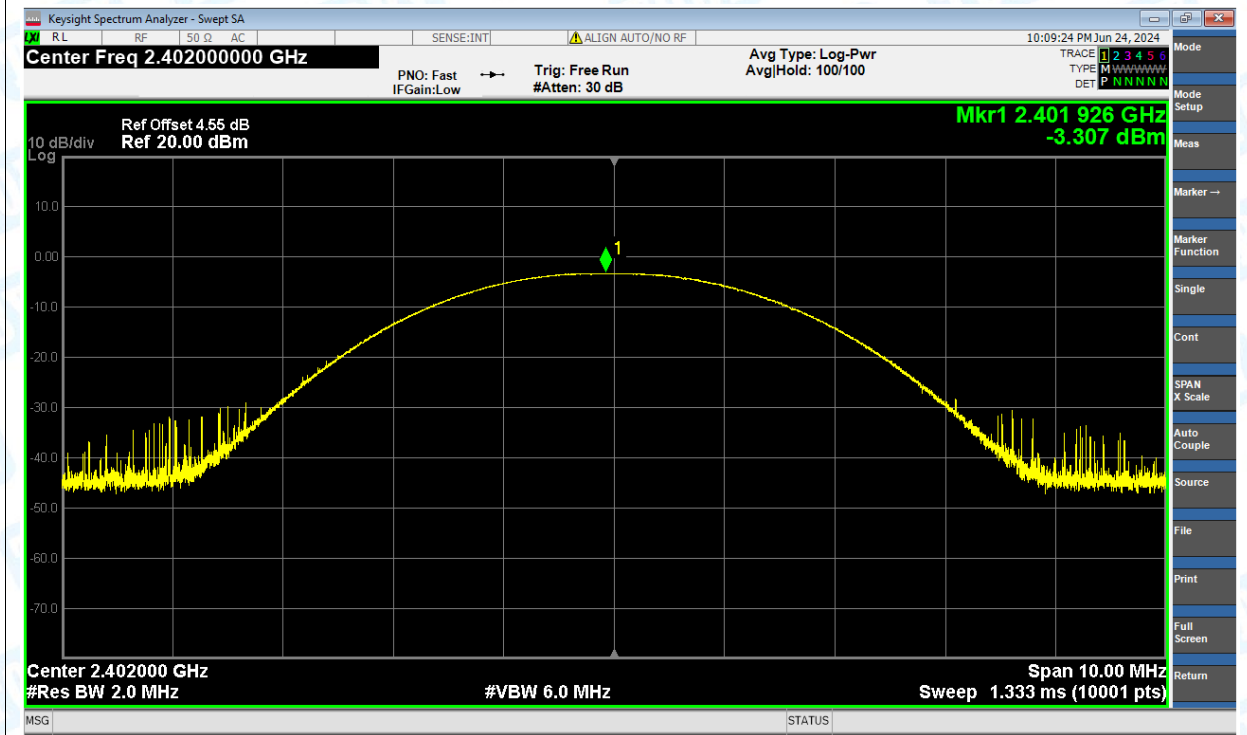


2. Maximum Conducted Output Power

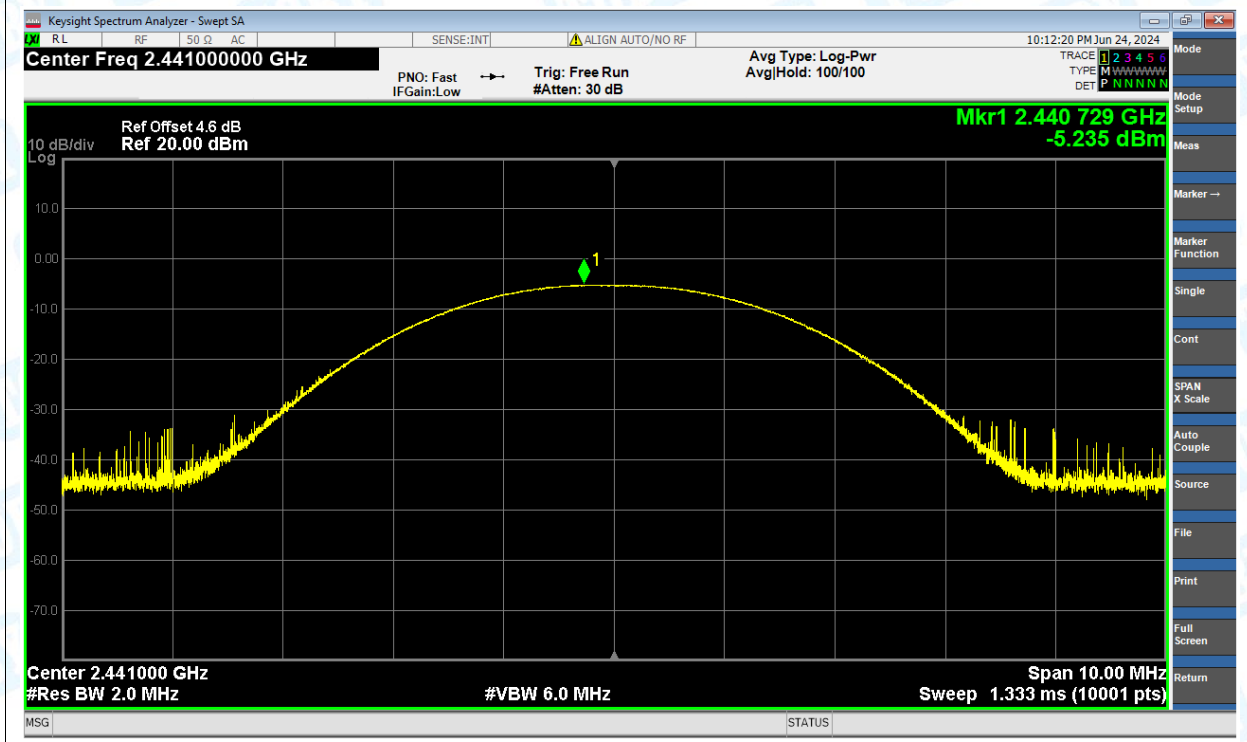
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-3.307	20.6	Pass
NVNT	1-DH1	2441	Ant1	-5.235	20.6	Pass
NVNT	1-DH1	2480	Ant1	-7.366	20.6	Pass
NVNT	1-DH3	2441	Ant1	-5	20.6	Pass
NVNT	1-DH5	2441	Ant1	-5.053	20.6	Pass
NVNT	2-DH1	2402	Ant1	-1.493	20.6	Pass
NVNT	2-DH1	2441	Ant1	-2.92	20.6	Pass
NVNT	2-DH1	2480	Ant1	-5.253	20.6	Pass
NVNT	2-DH3	2441	Ant1	-2.913	20.6	Pass
NVNT	2-DH5	2441	Ant1	-2.996	20.6	Pass
NVNT	3-DH1	2402	Ant1	-0.665	20.6	Pass
NVNT	3-DH1	2441	Ant1	-2.162	20.6	Pass
NVNT	3-DH1	2480	Ant1	-4.475	20.6	Pass
NVNT	3-DH3	2441	Ant1	-2.284	20.6	Pass
NVNT	3-DH5	2441	Ant1	-2.353	20.6	Pass

Test Graphs

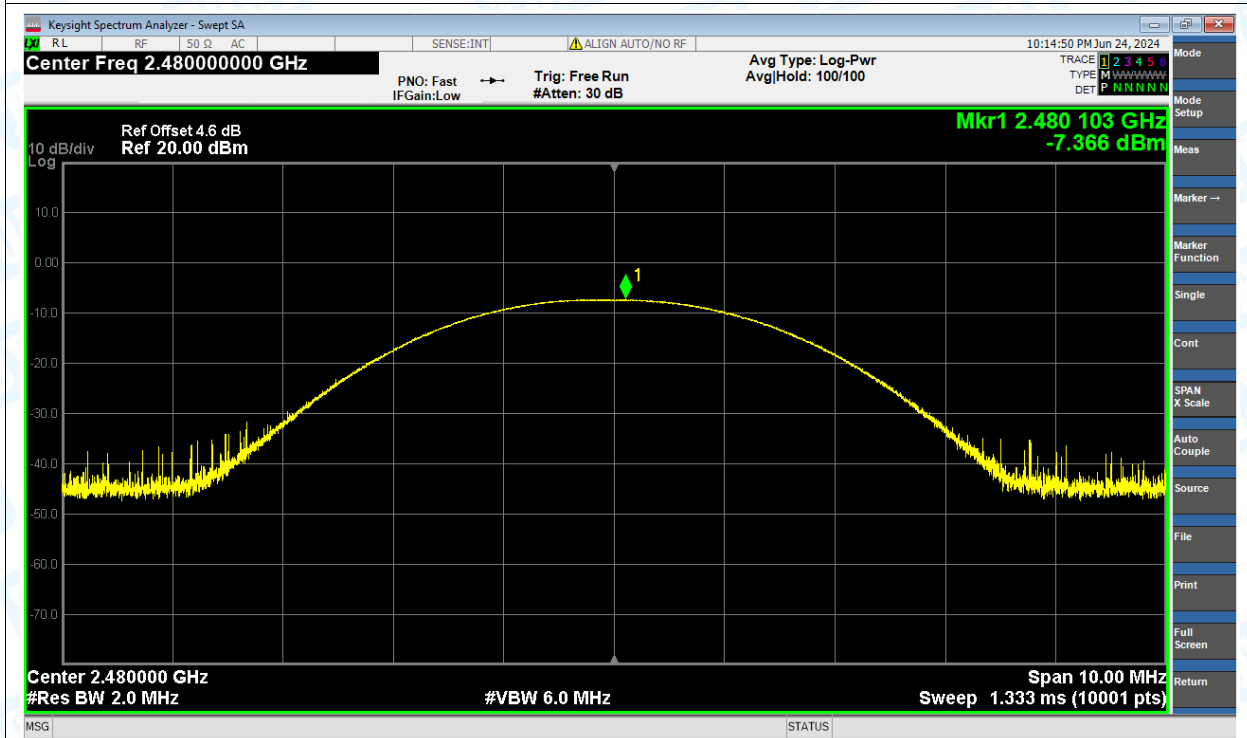
Power NVNT 1-DH1 2402MHz Ant1



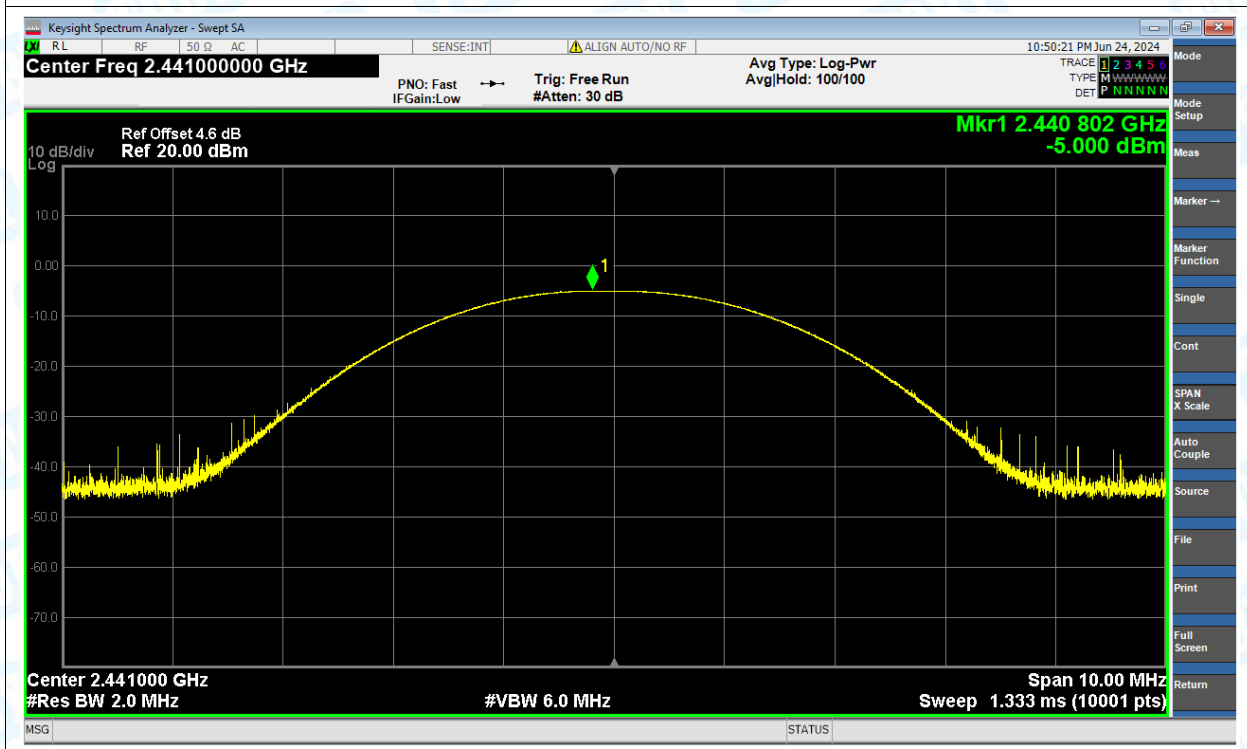
Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



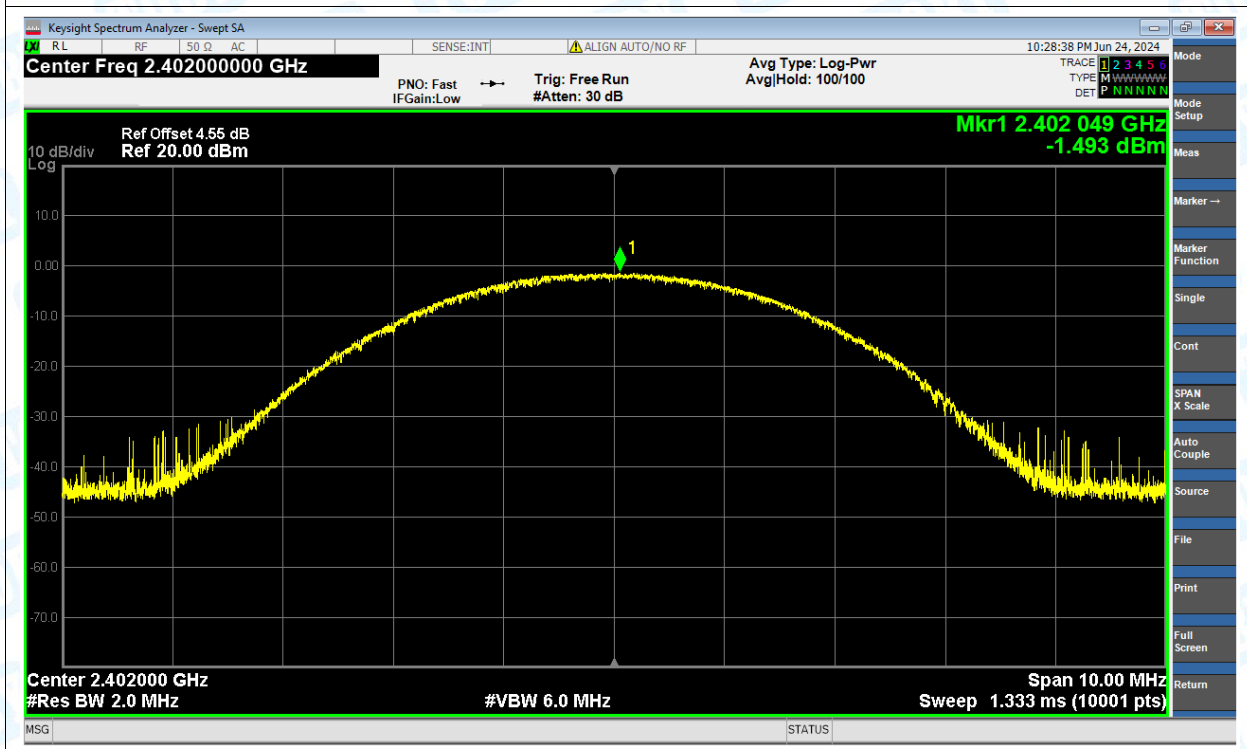
Power NVNT 1-DH3 2441MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



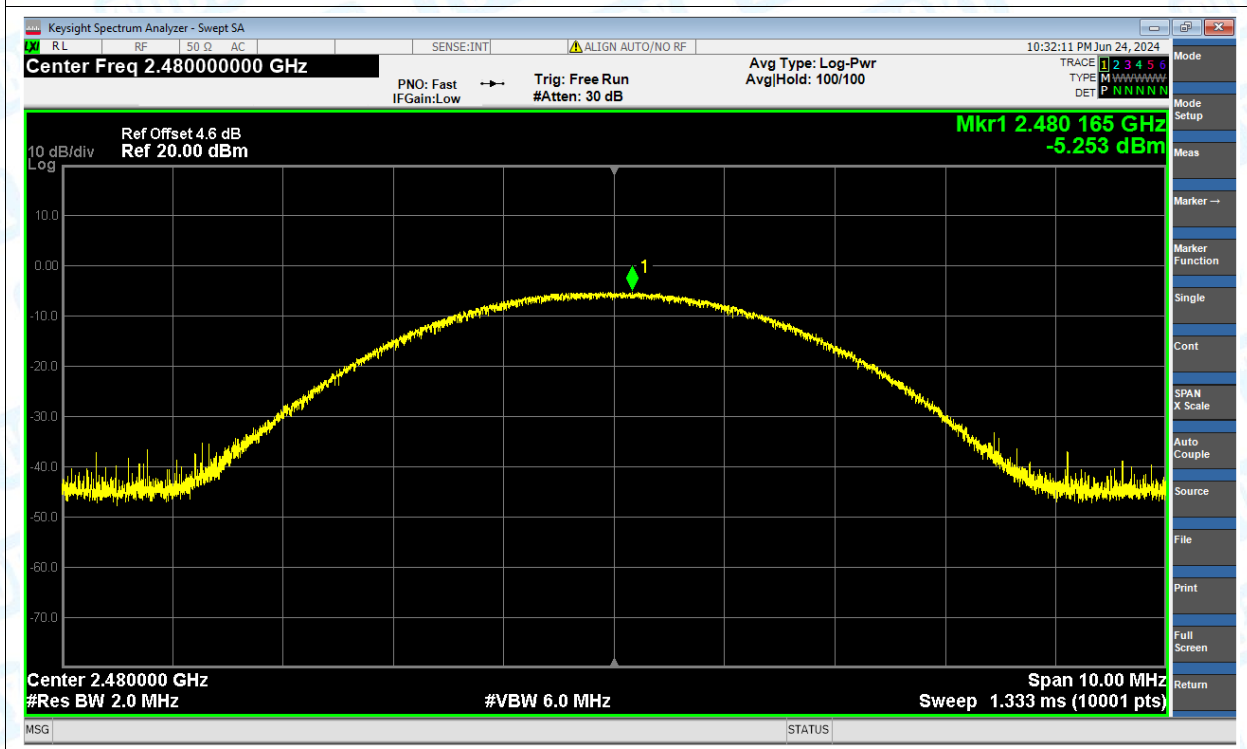
Power NVNT 2-DH1 2402MHz Ant1



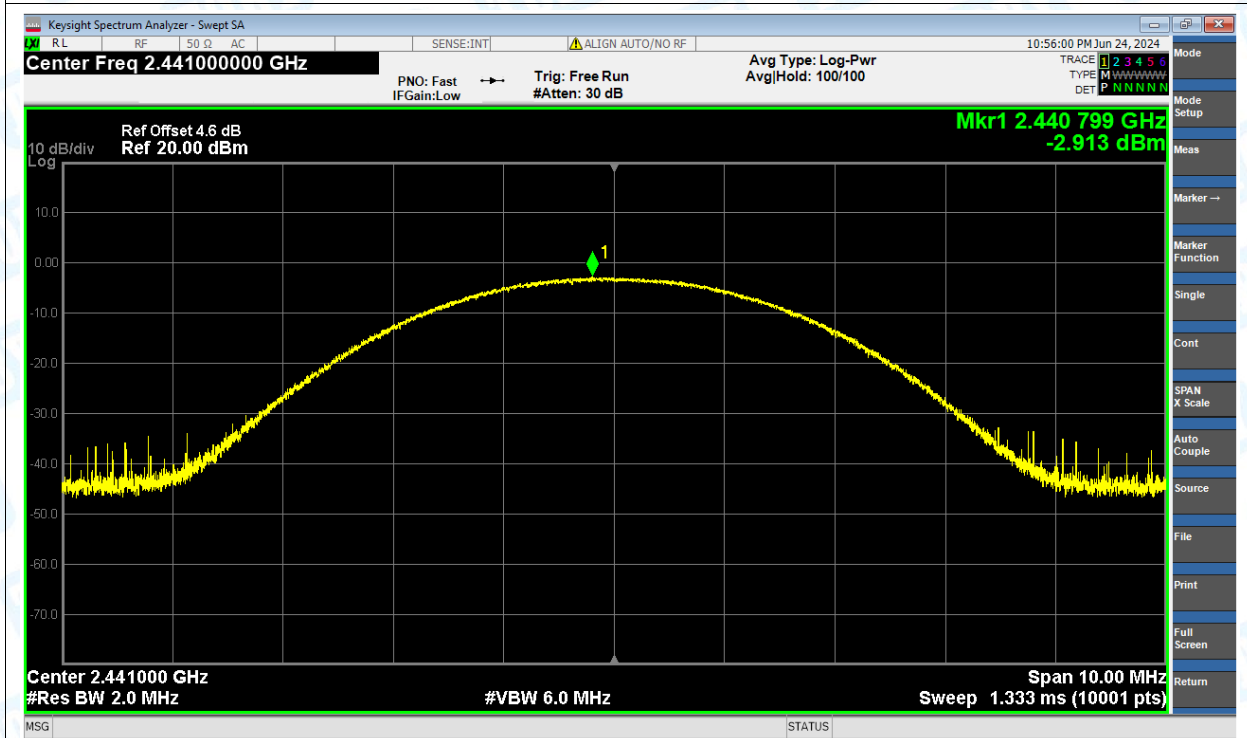
Power NVNT 2-DH1 2441MHz Ant1



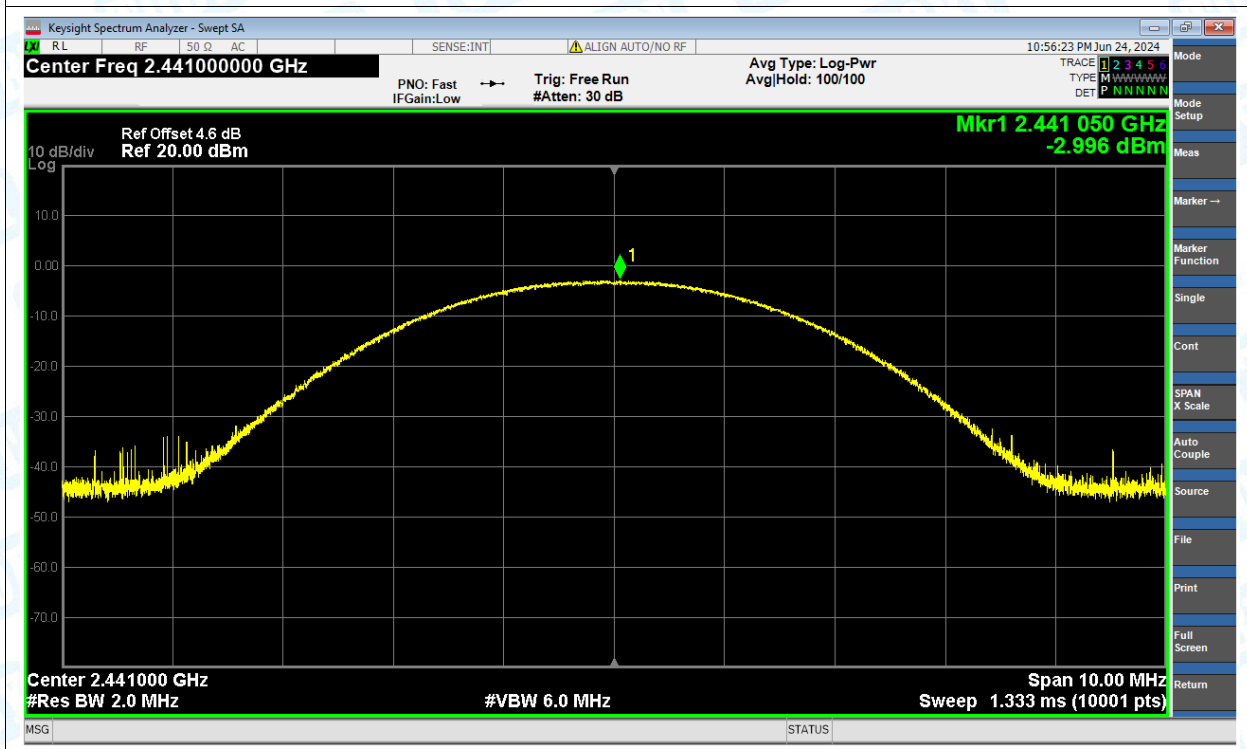
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1



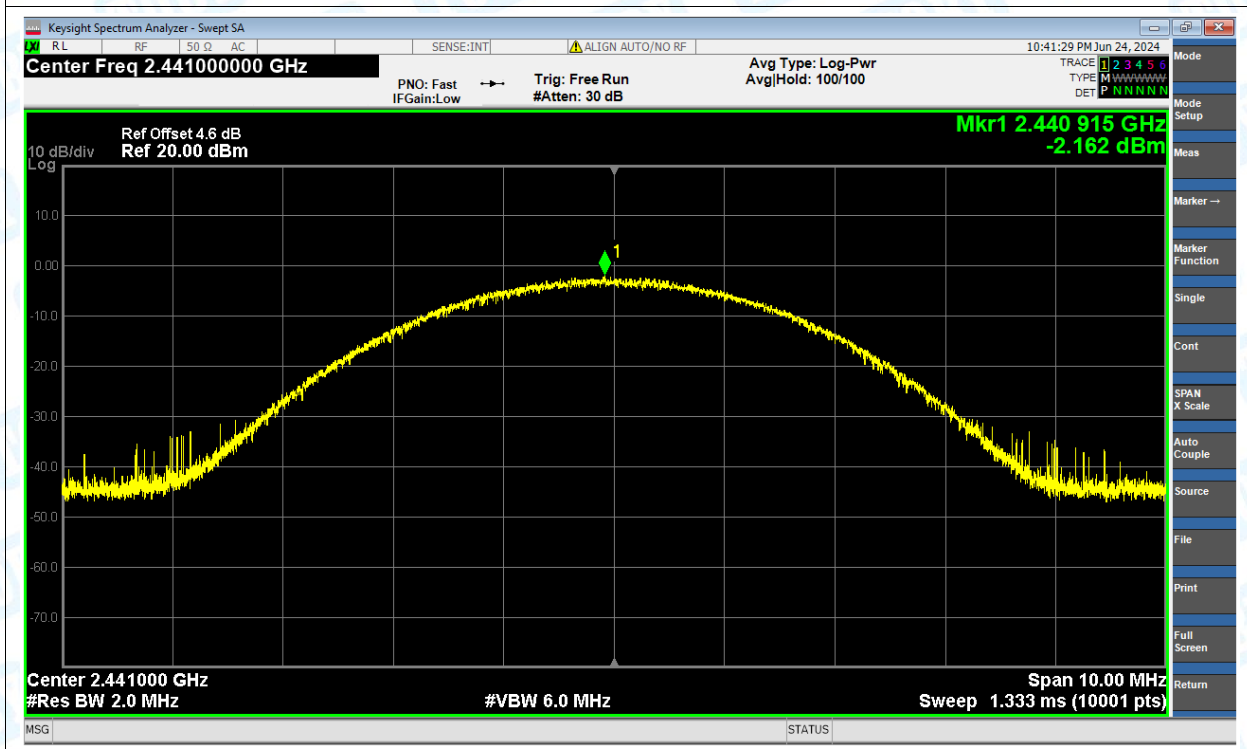
Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



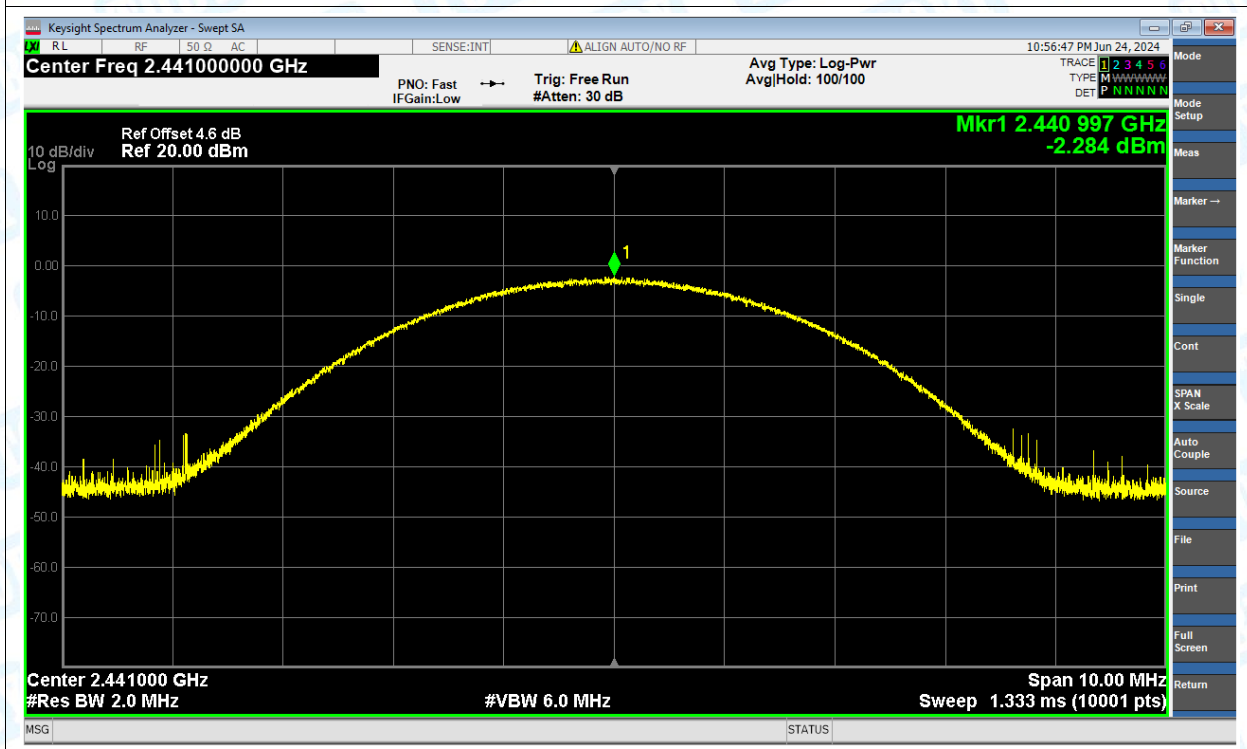
Power NVNT 3-DH1 2441MHz Ant1

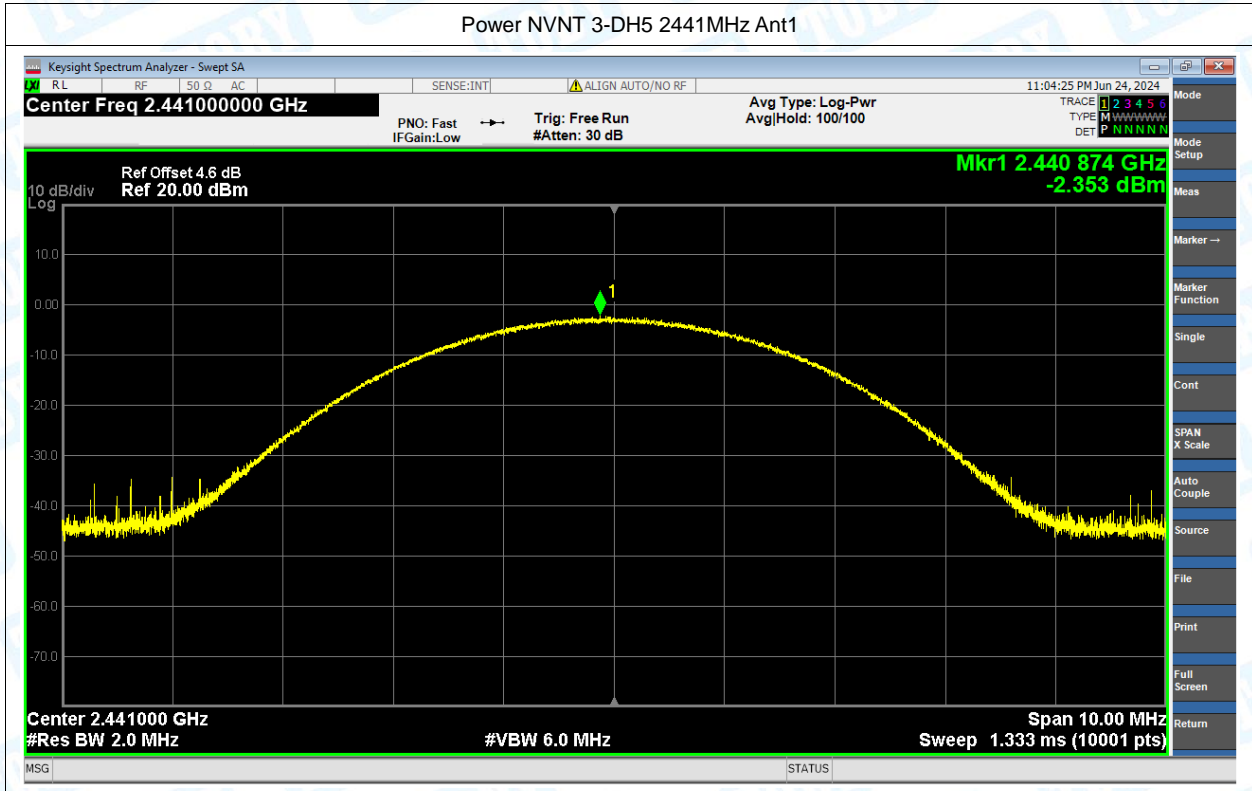


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



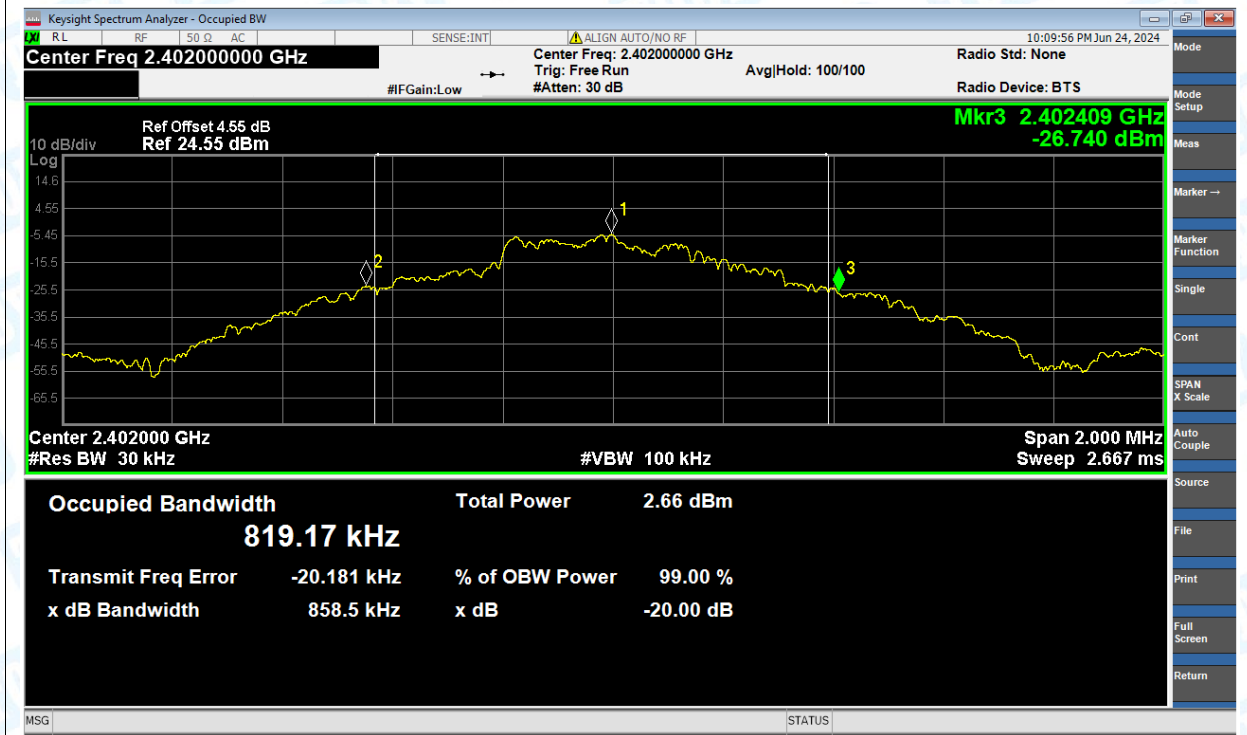


3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.86	0	Pass
NVNT	1-DH1	2441	Ant1	0.87	0	Pass
NVNT	1-DH1	2480	Ant1	0.77	0	Pass
NVNT	2-DH1	2402	Ant1	1.25	0	Pass
NVNT	2-DH1	2441	Ant1	1.25	0	Pass
NVNT	2-DH1	2480	Ant1	1.24	0	Pass
NVNT	3-DH1	2402	Ant1	1.22	0	Pass
NVNT	3-DH1	2441	Ant1	1.2	0	Pass
NVNT	3-DH1	2480	Ant1	1.21	0	Pass

Test Graphs

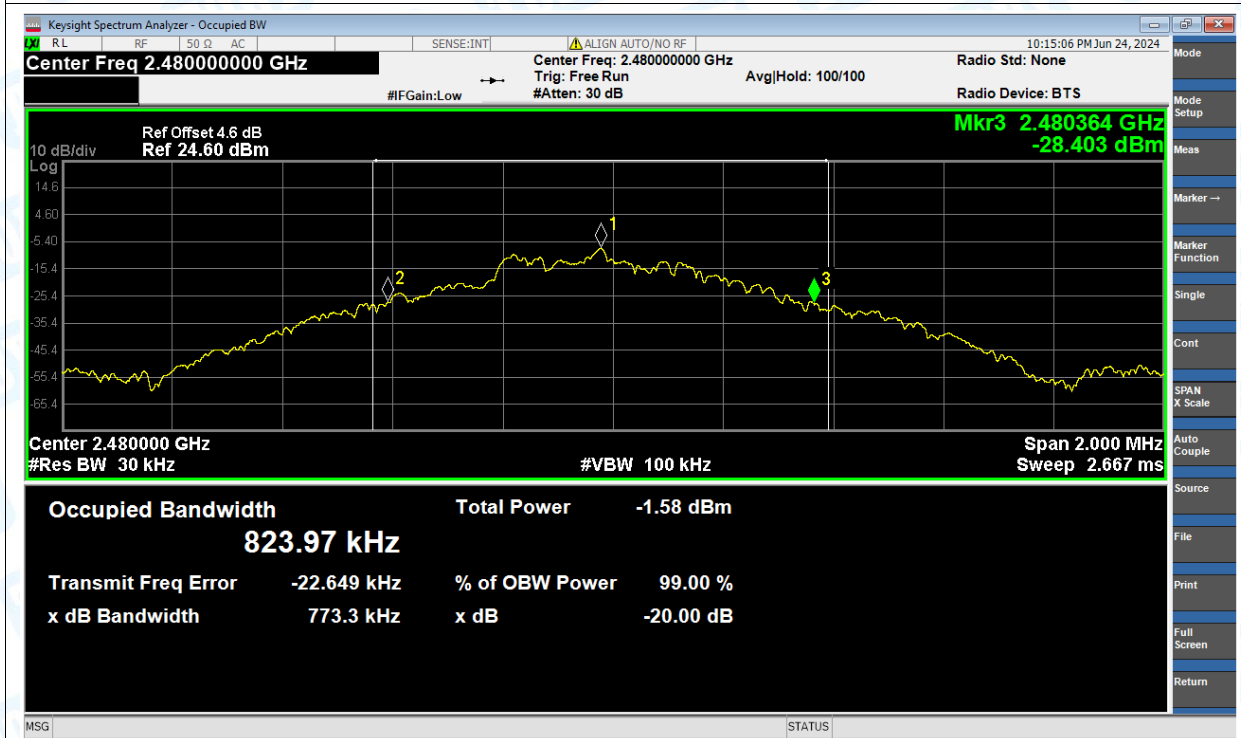
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



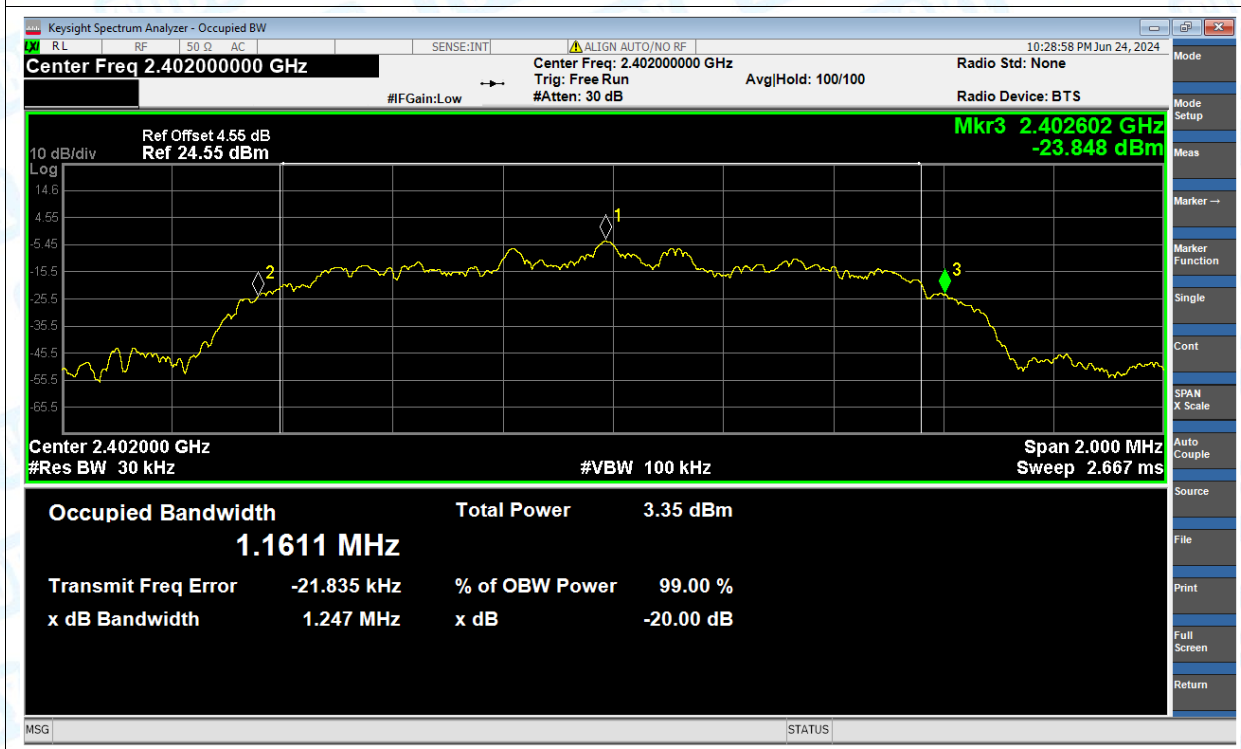
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



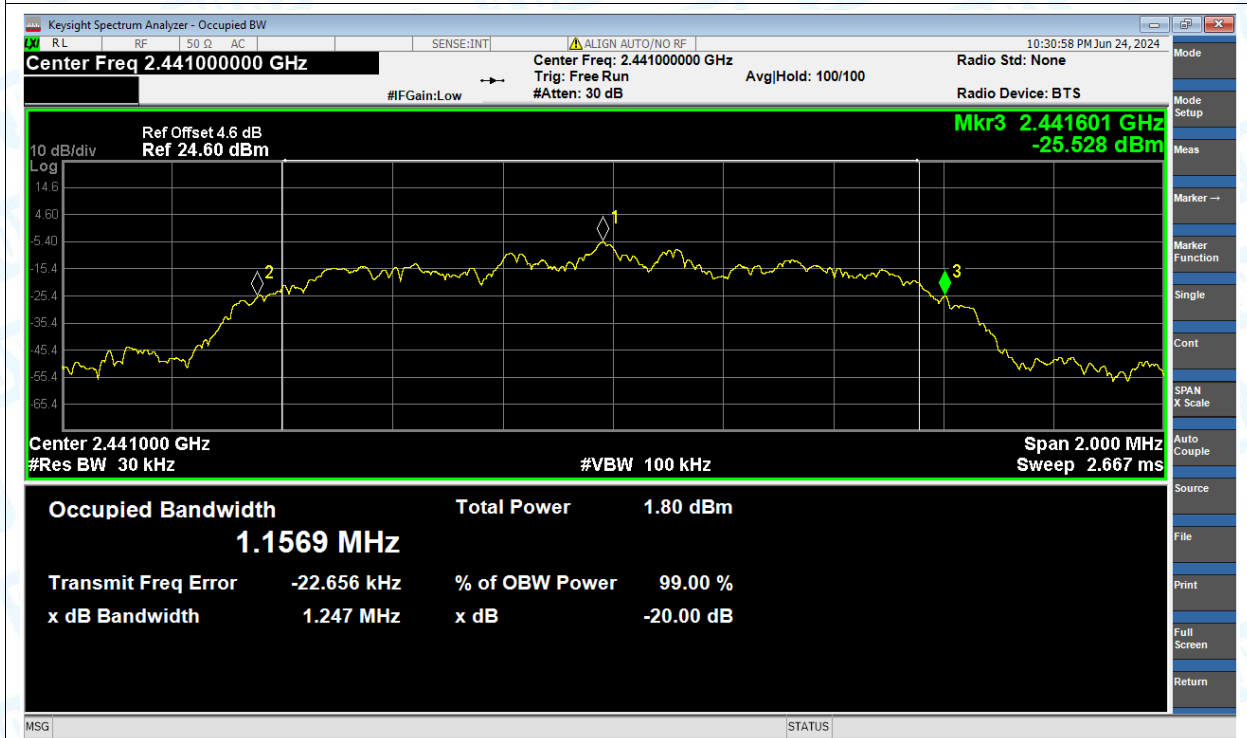
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



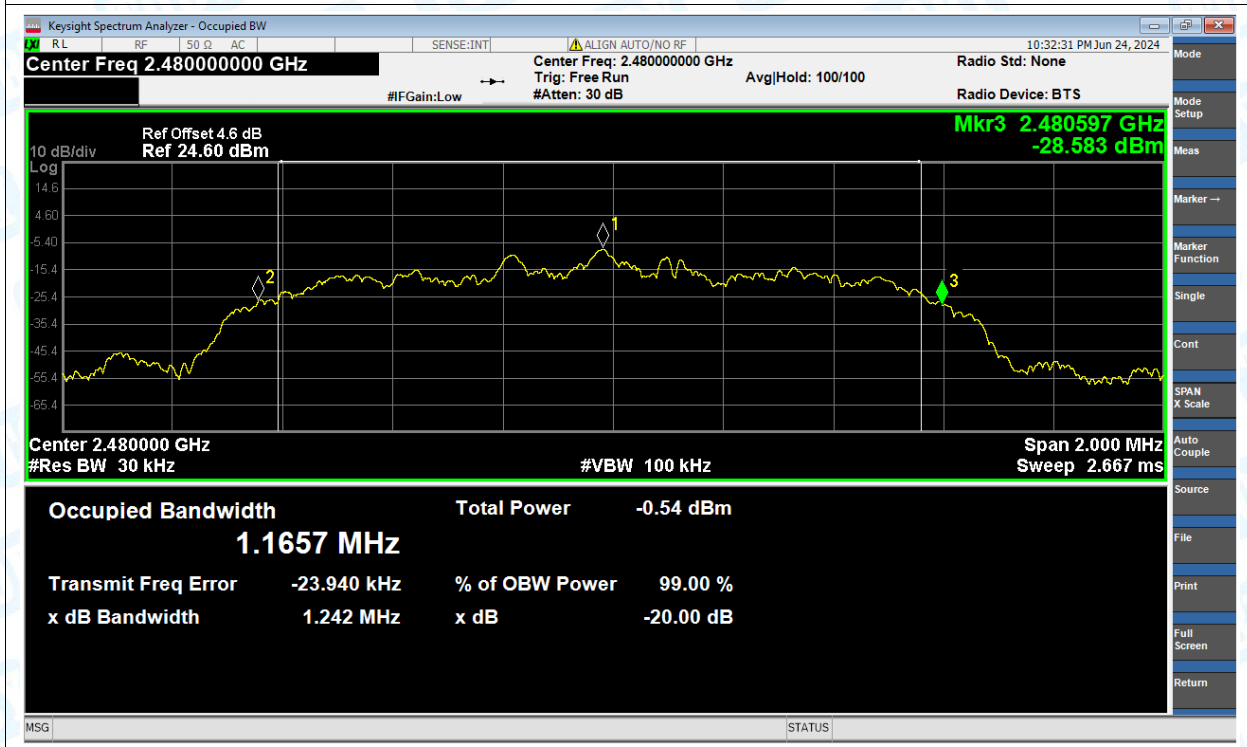
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



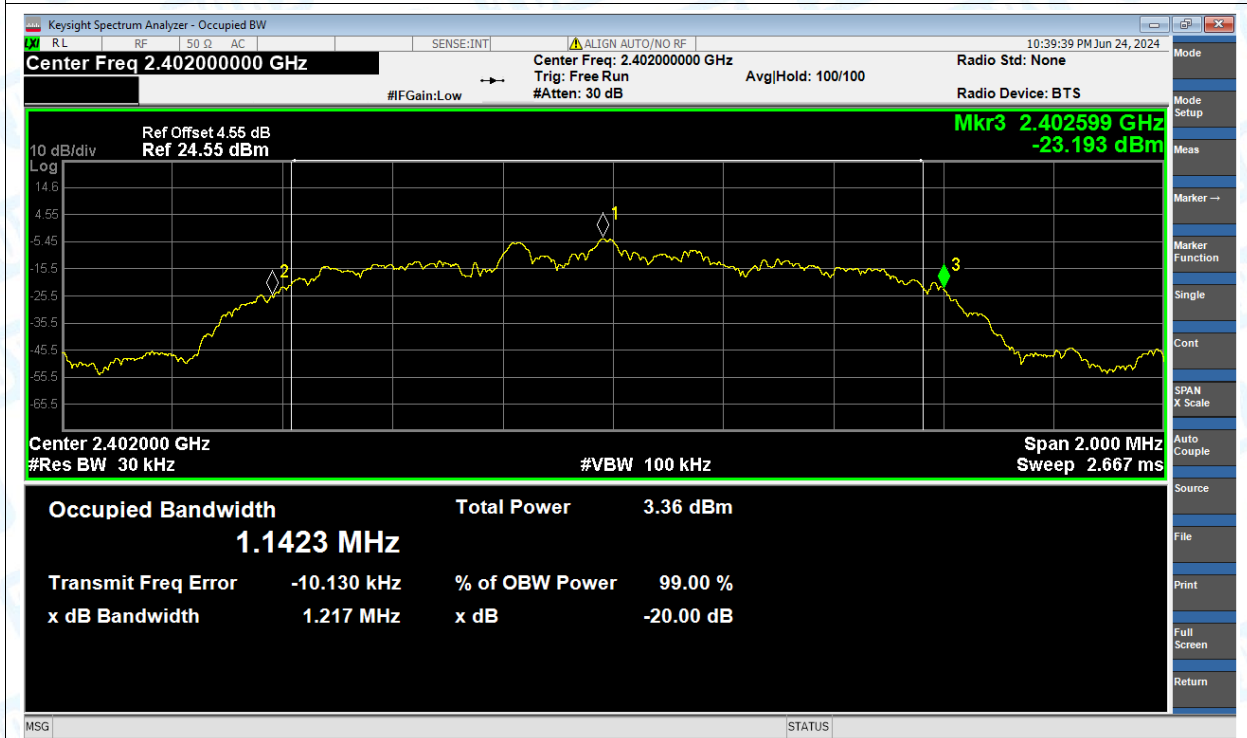
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



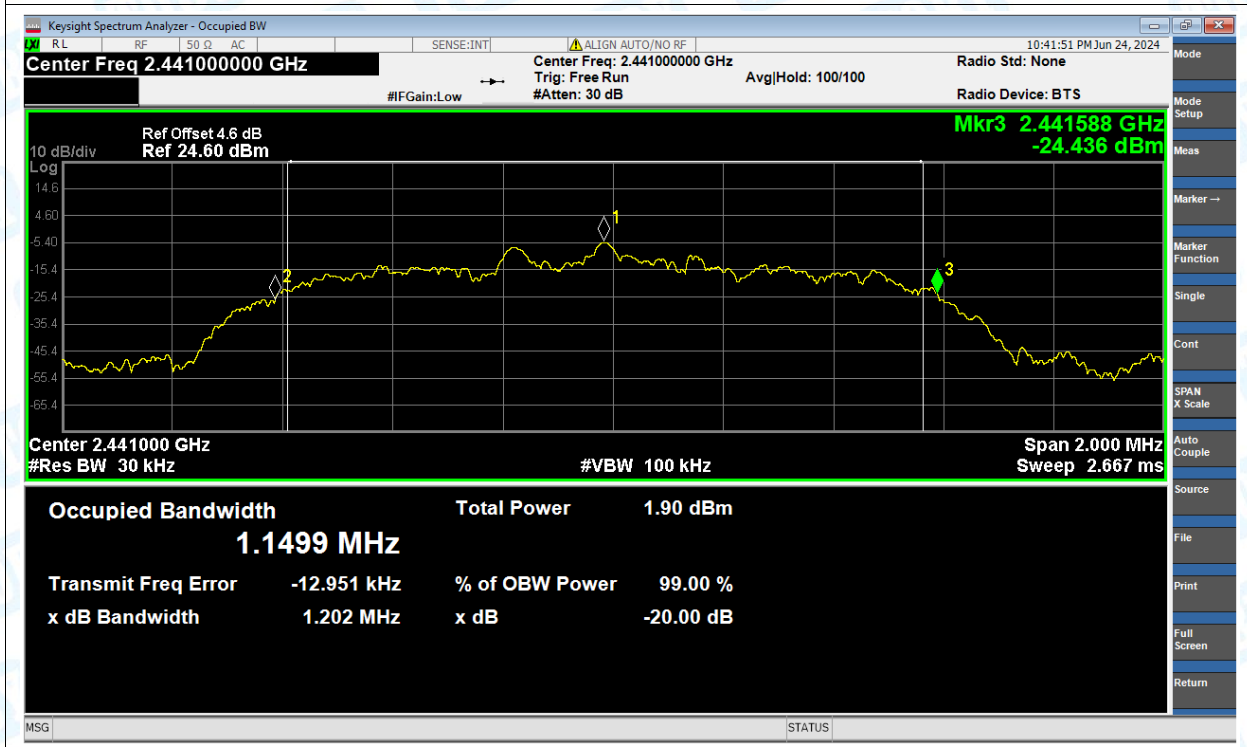
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

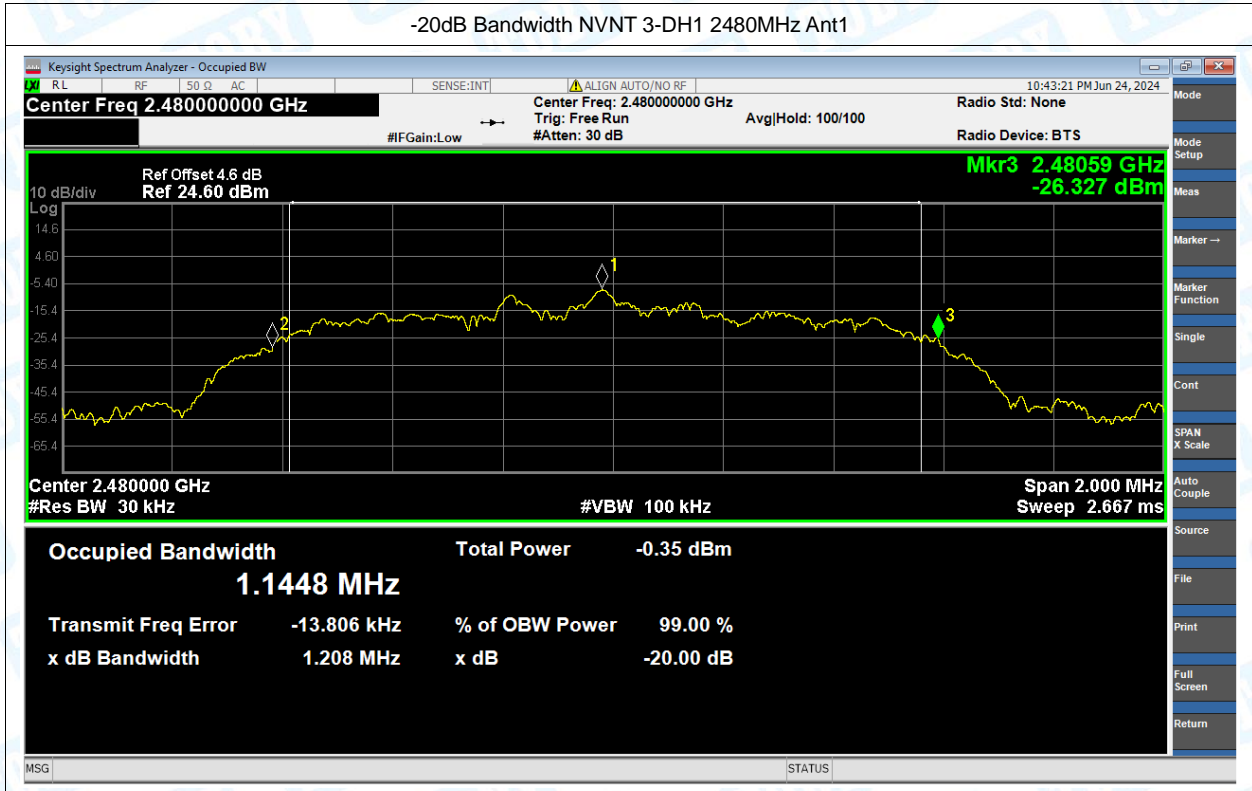


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



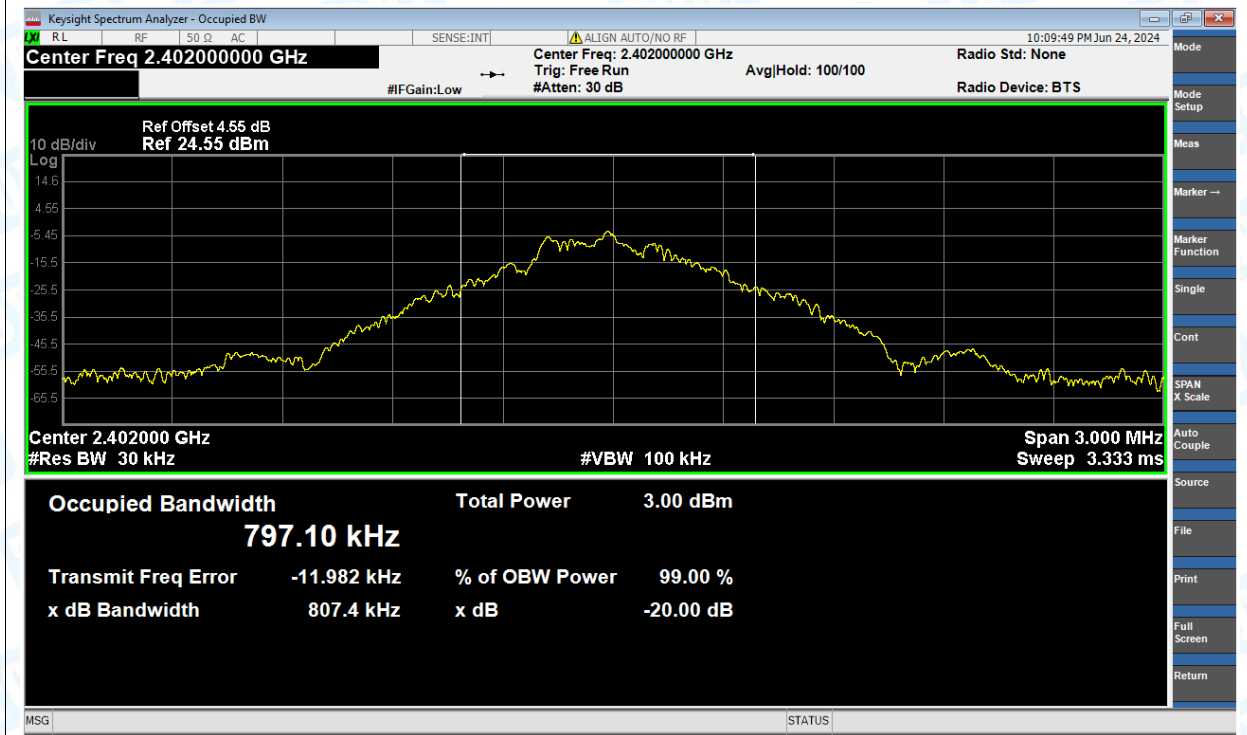


4. Occupied Channel Bandwidth

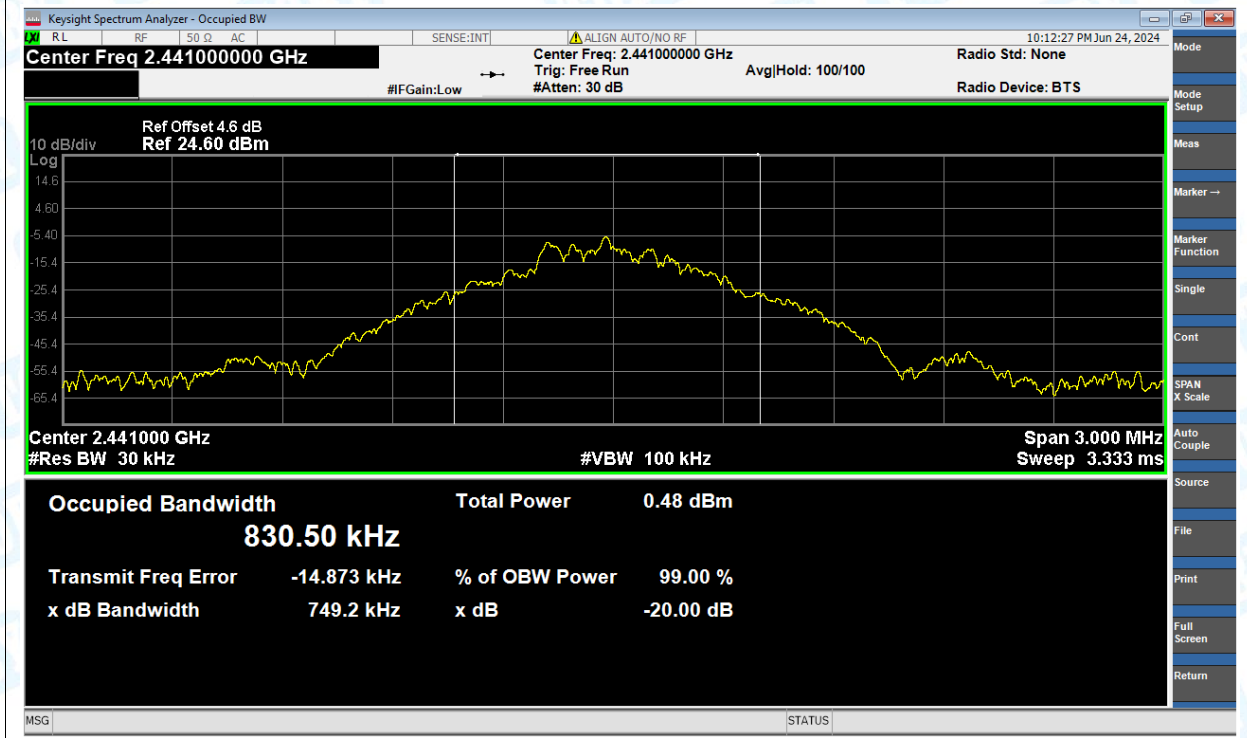
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.797
NVNT	1-DH1	2441	Ant1	0.83
NVNT	1-DH1	2480	Ant1	0.816
NVNT	2-DH1	2402	Ant1	1.137
NVNT	2-DH1	2441	Ant1	1.171
NVNT	2-DH1	2480	Ant1	1.163
NVNT	3-DH1	2402	Ant1	1.153
NVNT	3-DH1	2441	Ant1	1.152
NVNT	3-DH1	2480	Ant1	1.145

Test Graphs

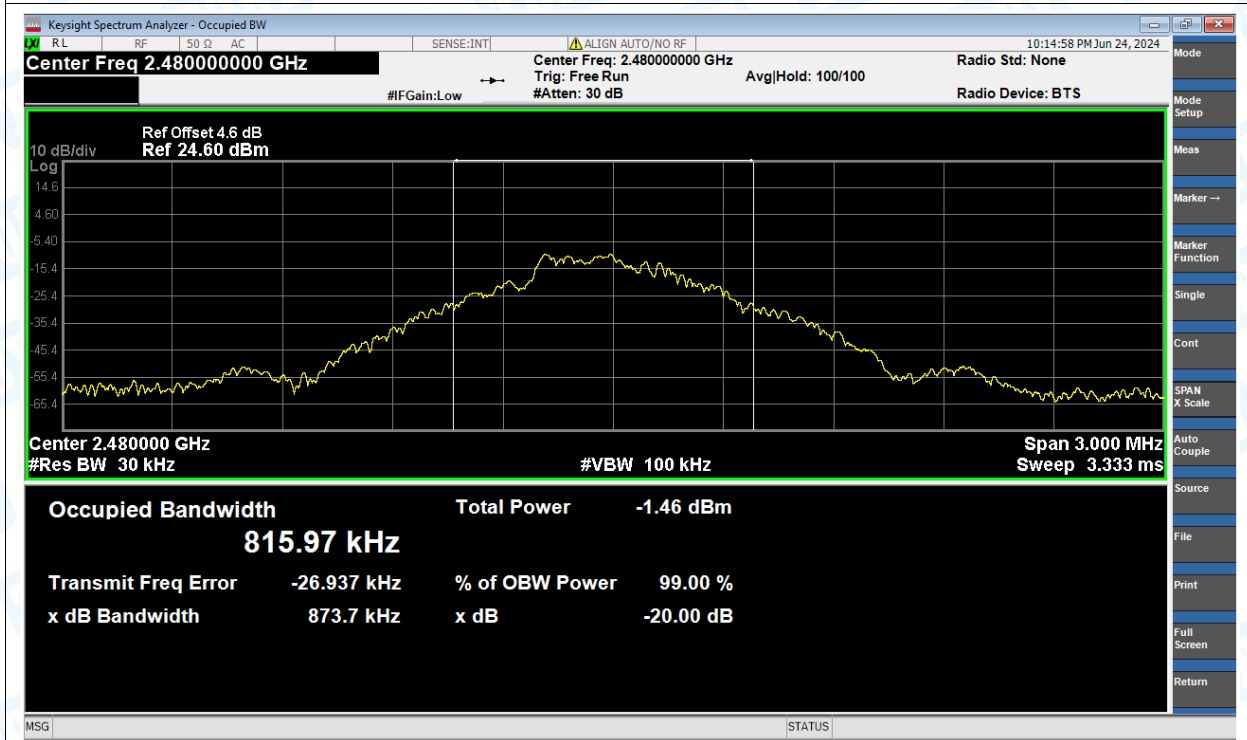
OBW NVNT 1-DH1 2402MHz Ant1



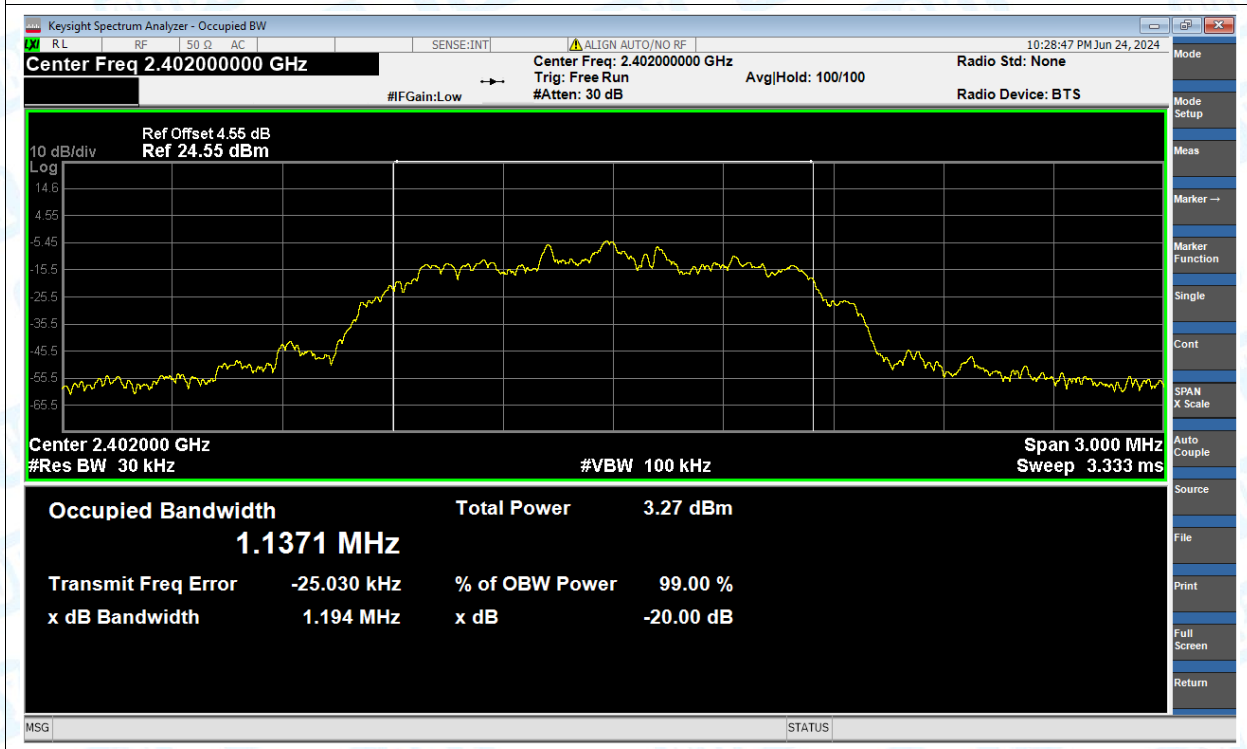
OBW NVNT 1-DH1 2441MHz Ant1



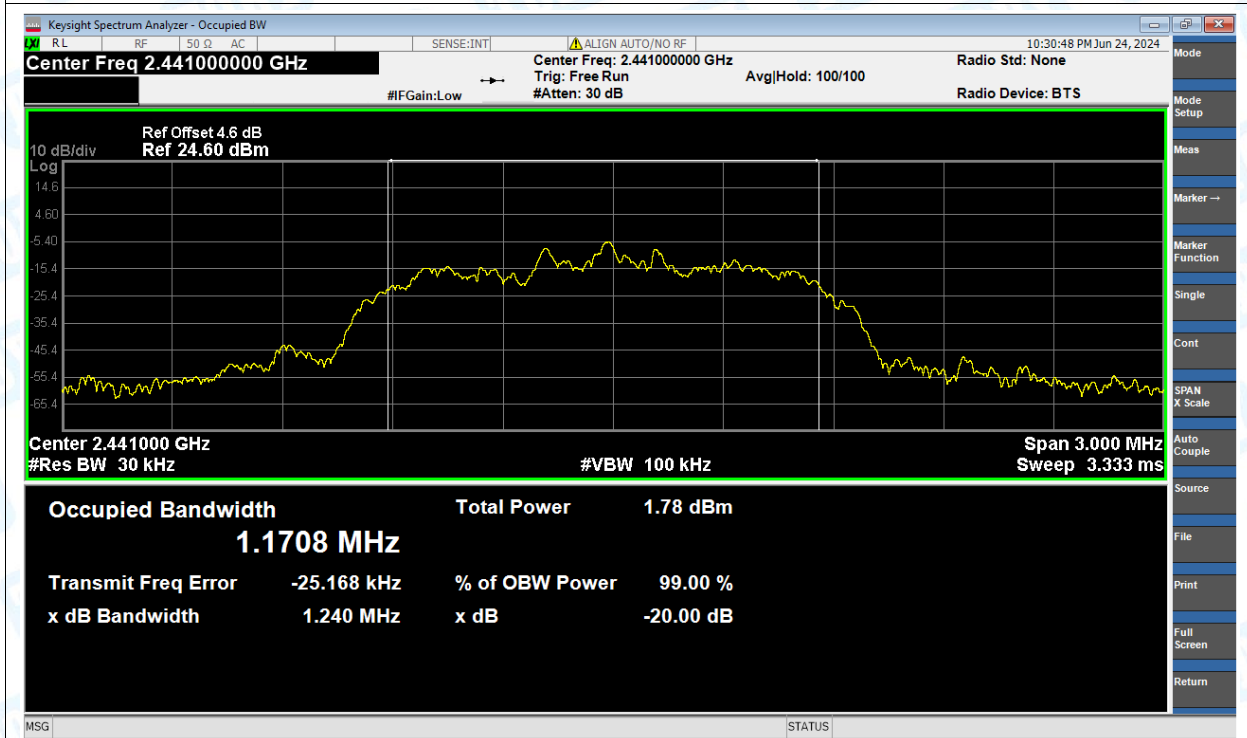
OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1



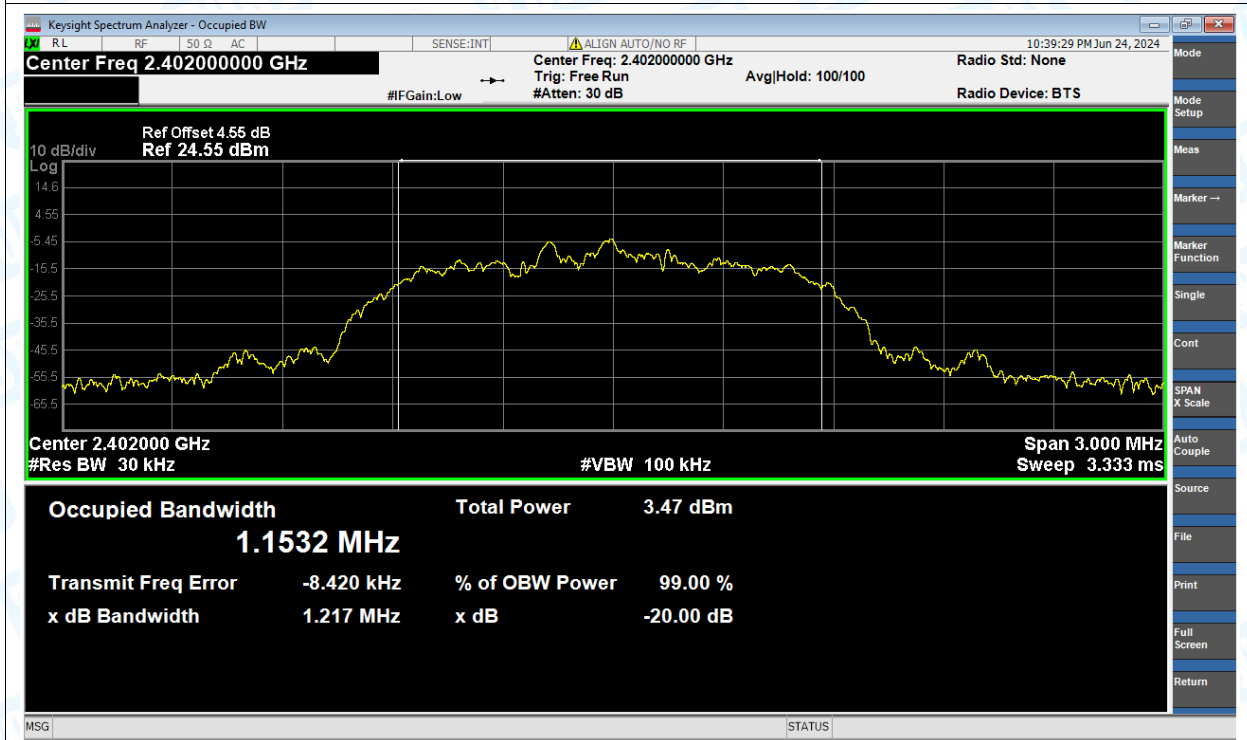
OBW NVNT 2-DH1 2441MHz Ant1



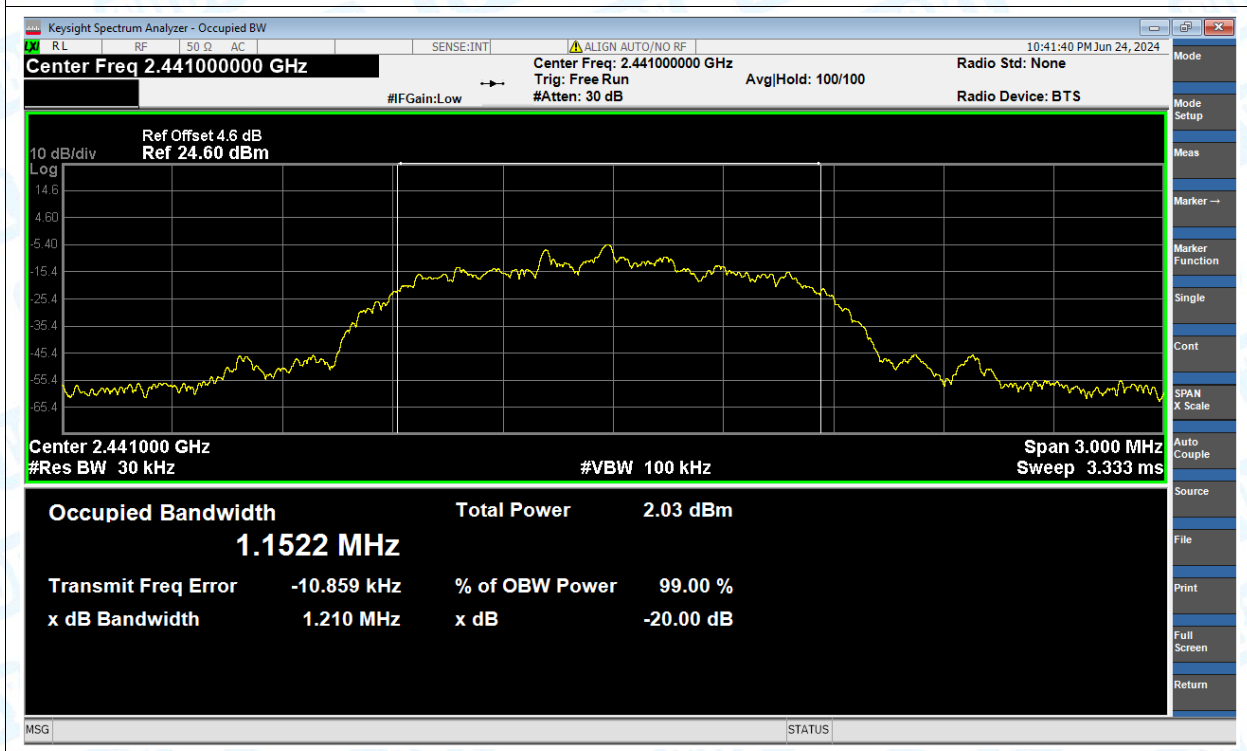
OBW NVNT 2-DH1 2480MHz Ant1

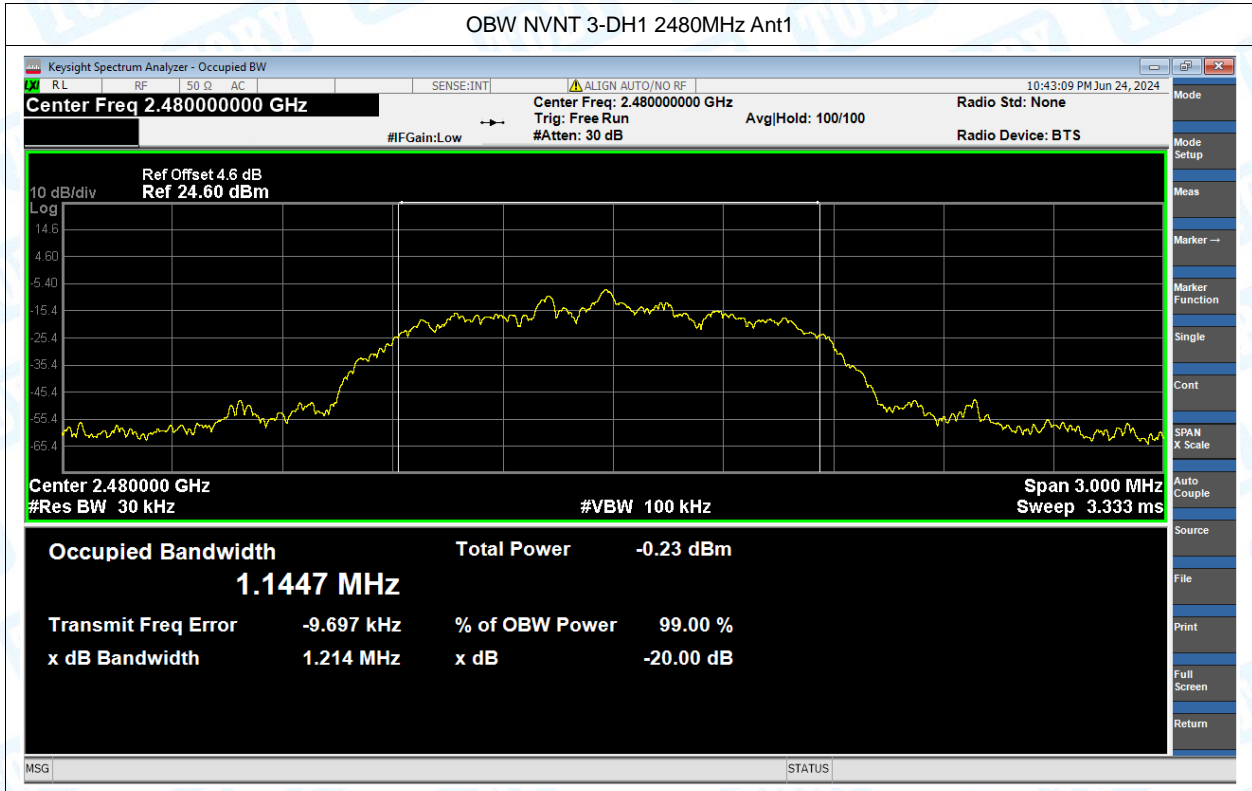


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



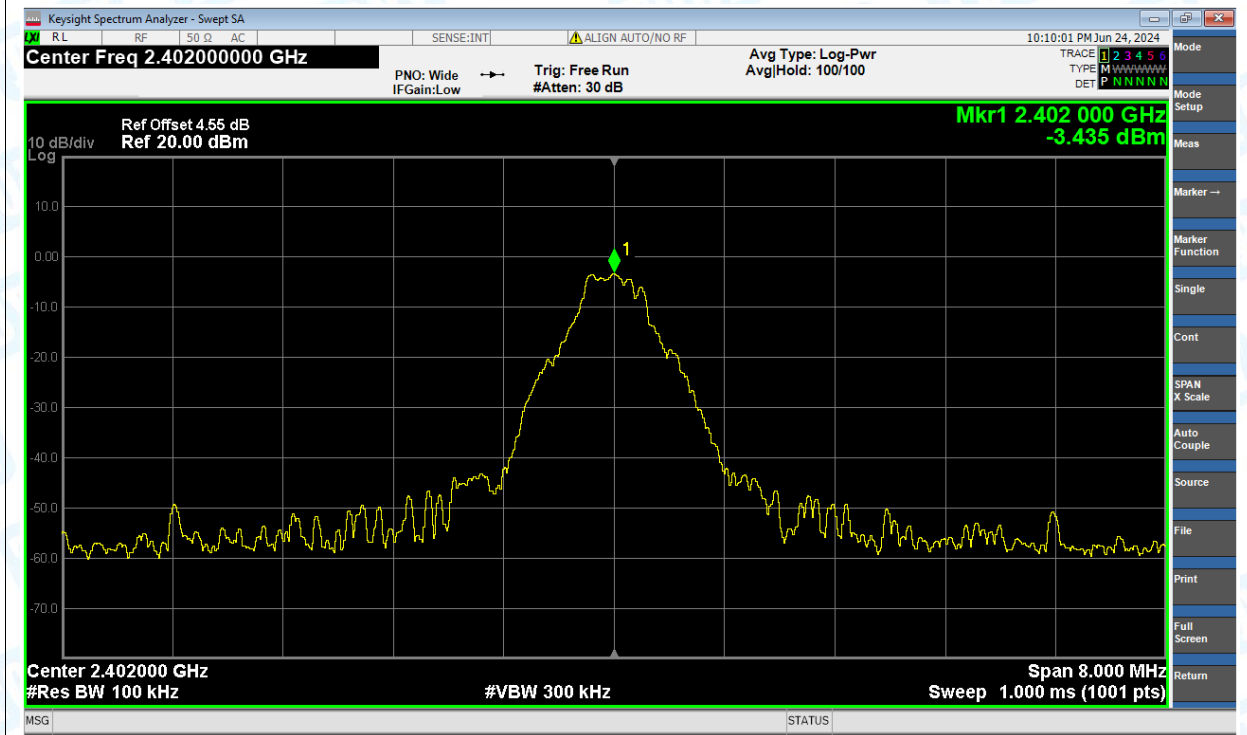


5. Band Edge

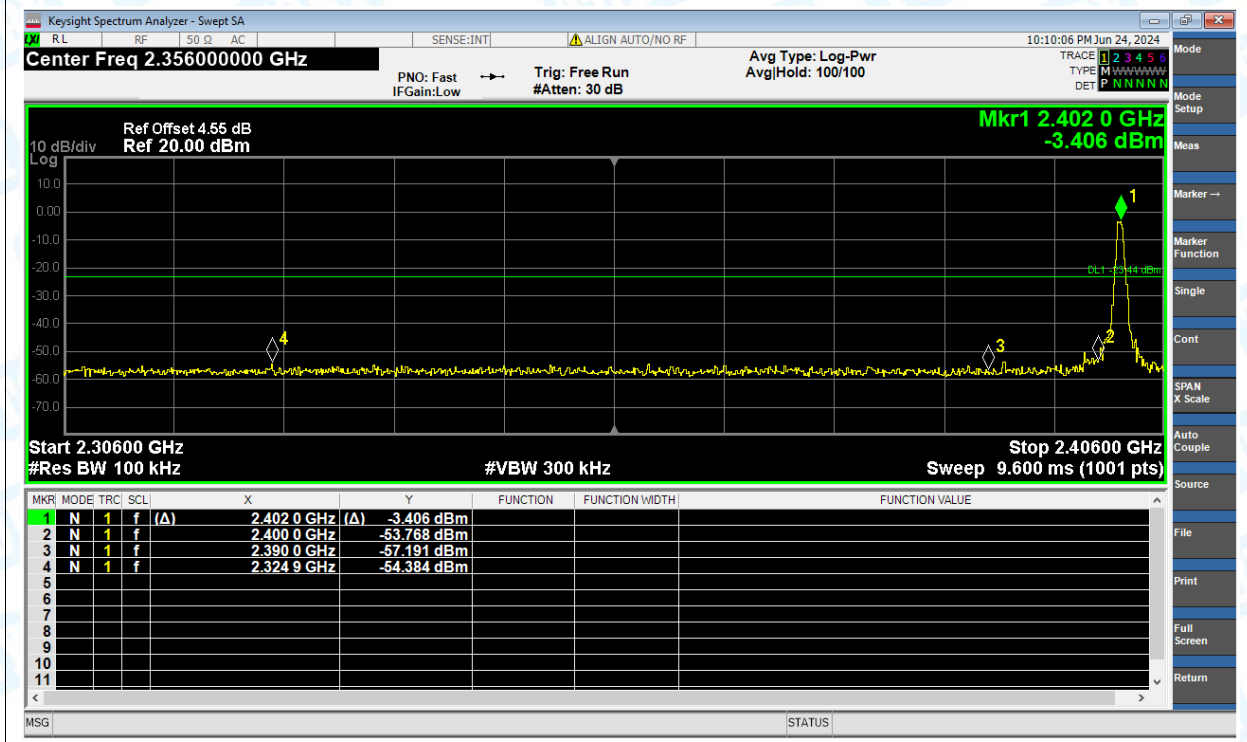
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-50.95	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-46.76	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-50.08	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-46.9	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-50.93	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-46.91	-20	Pass

Test Graphs

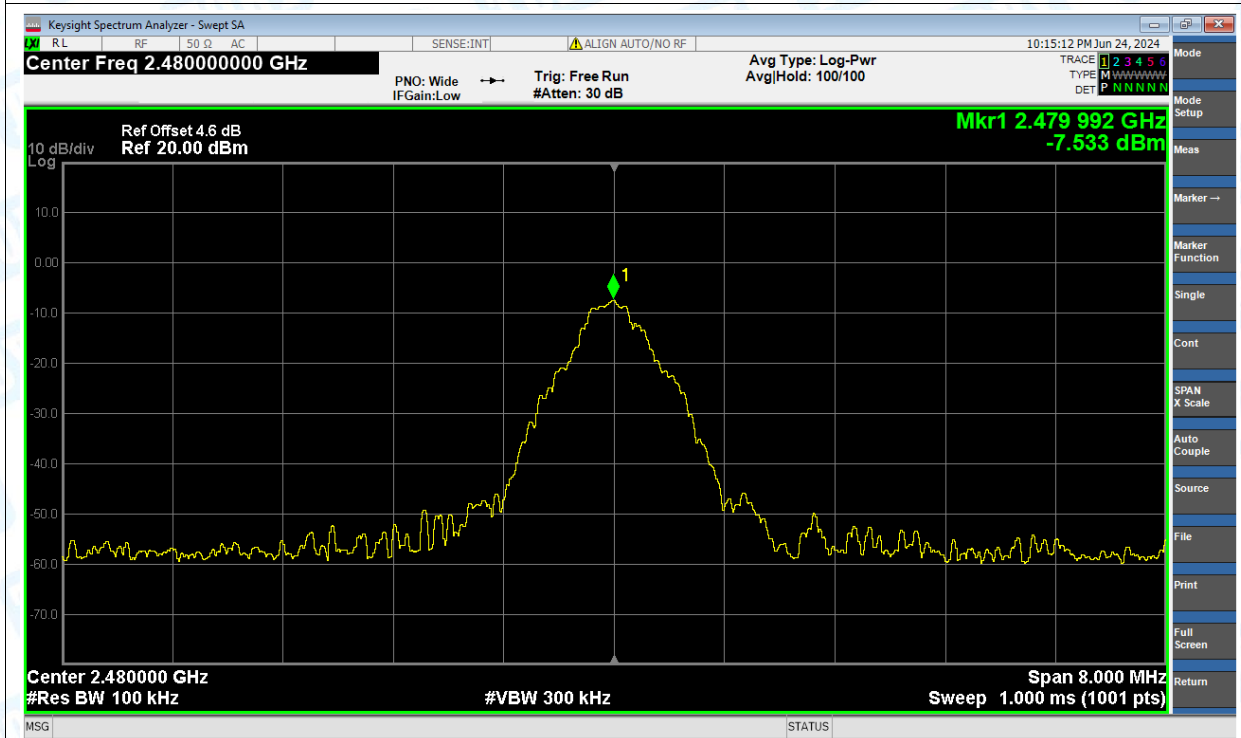
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



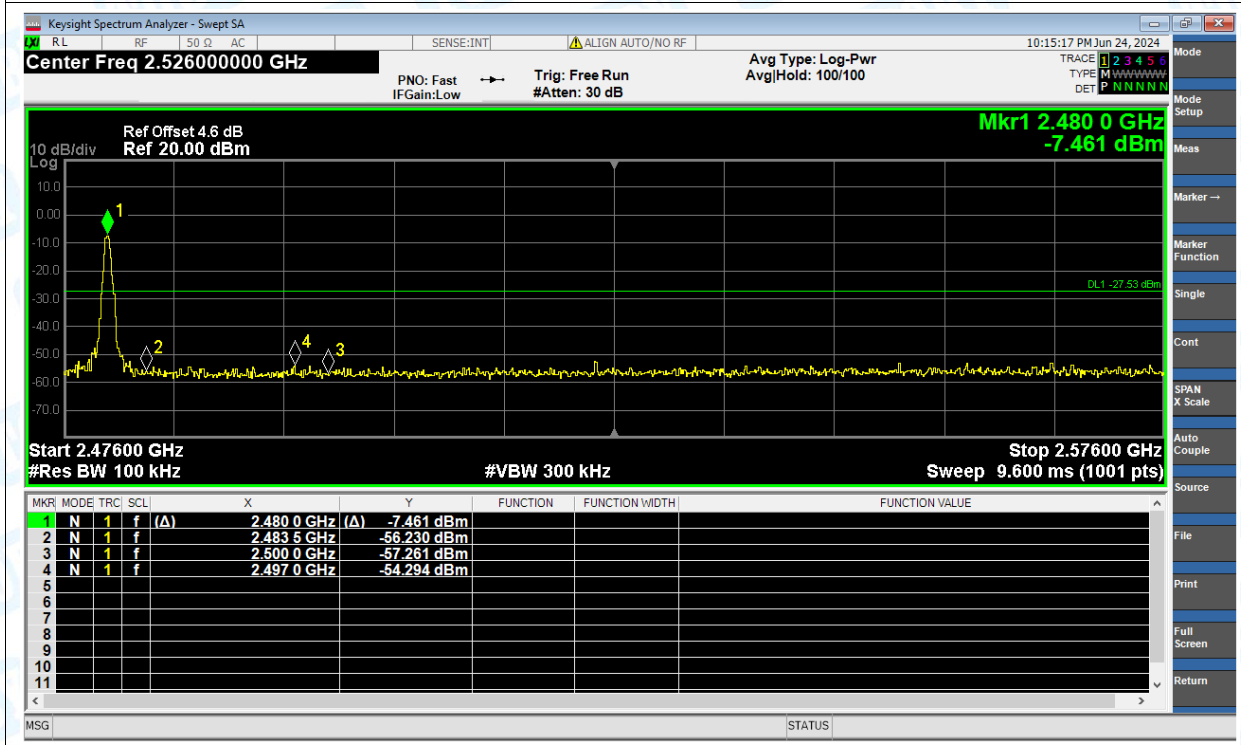
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



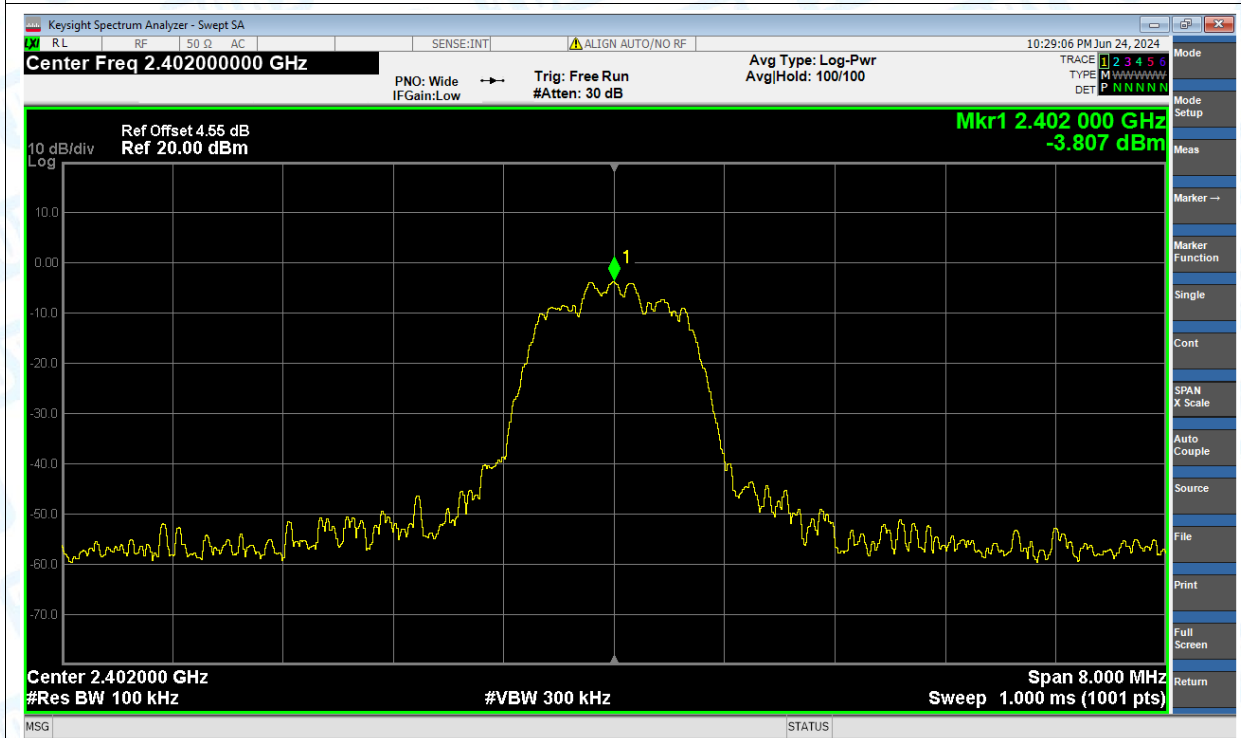
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



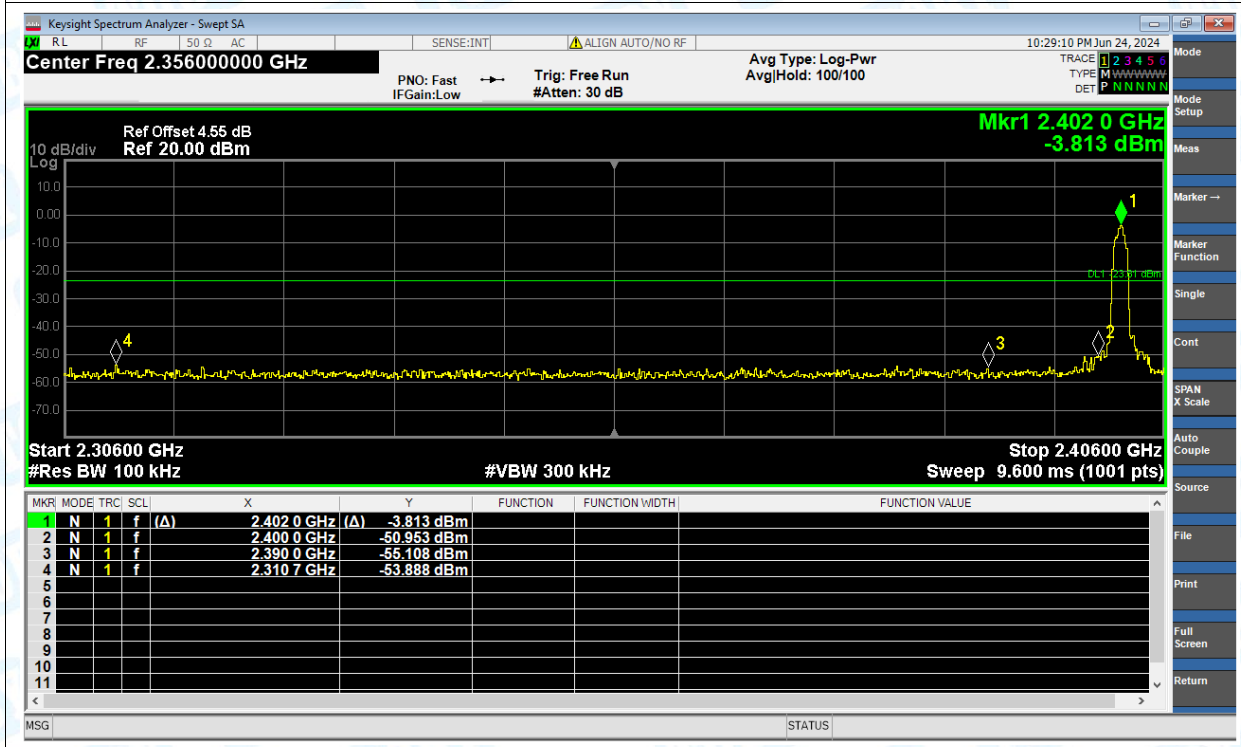
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



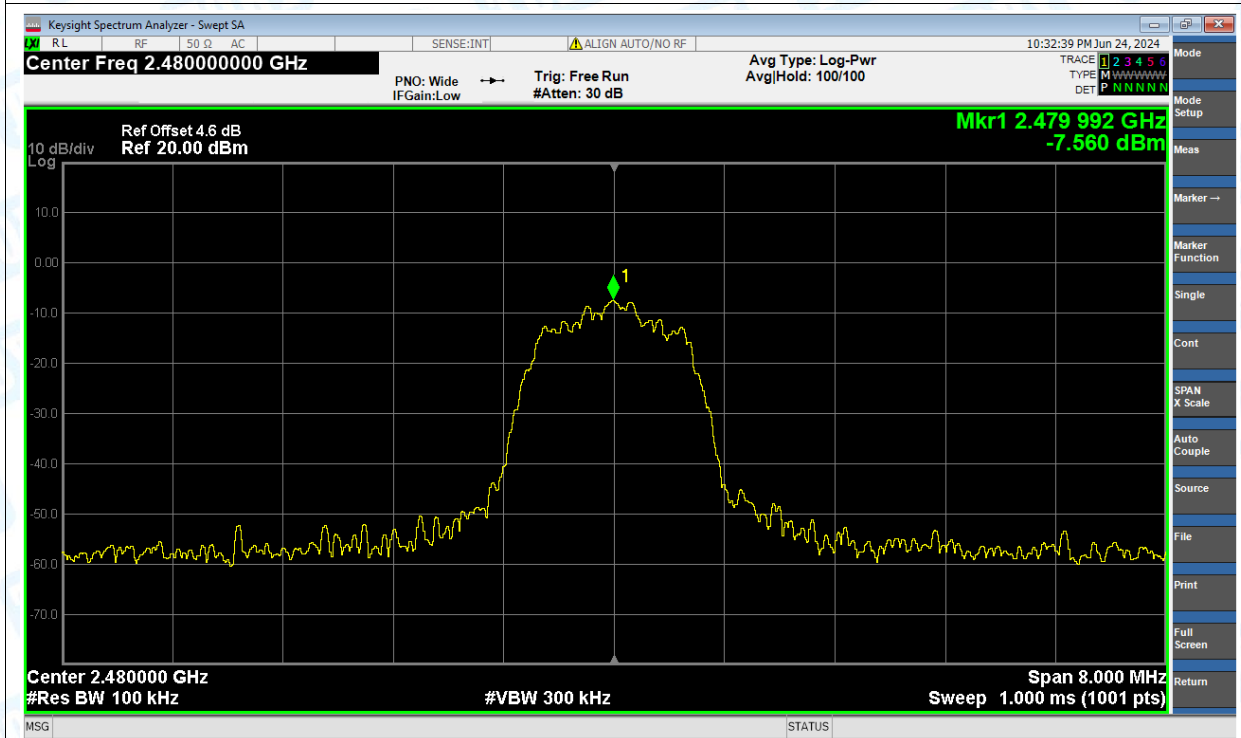
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



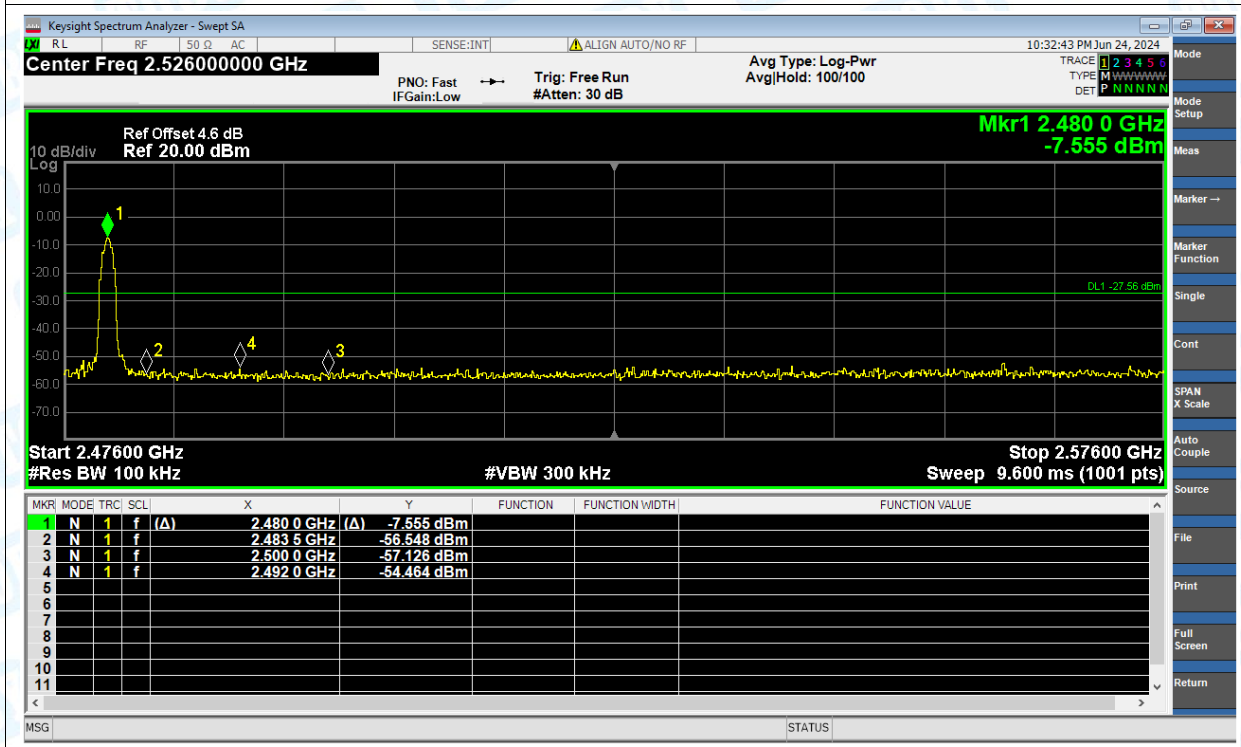
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



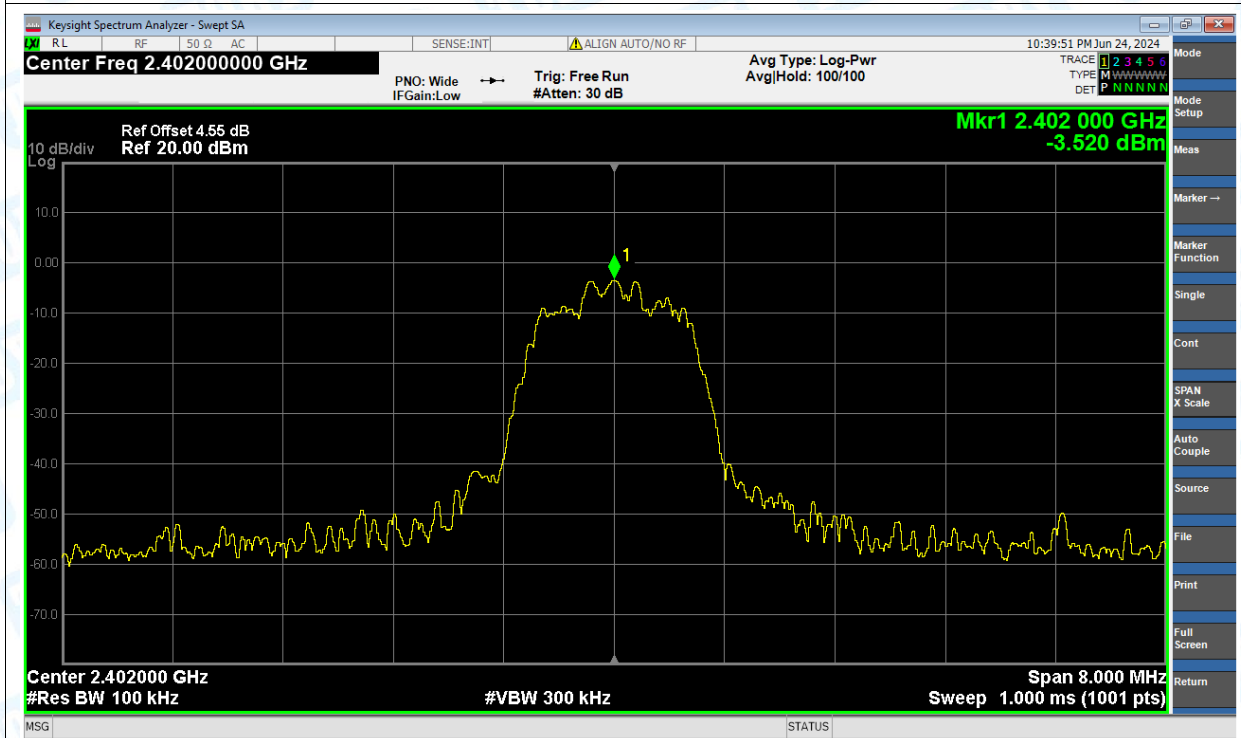
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



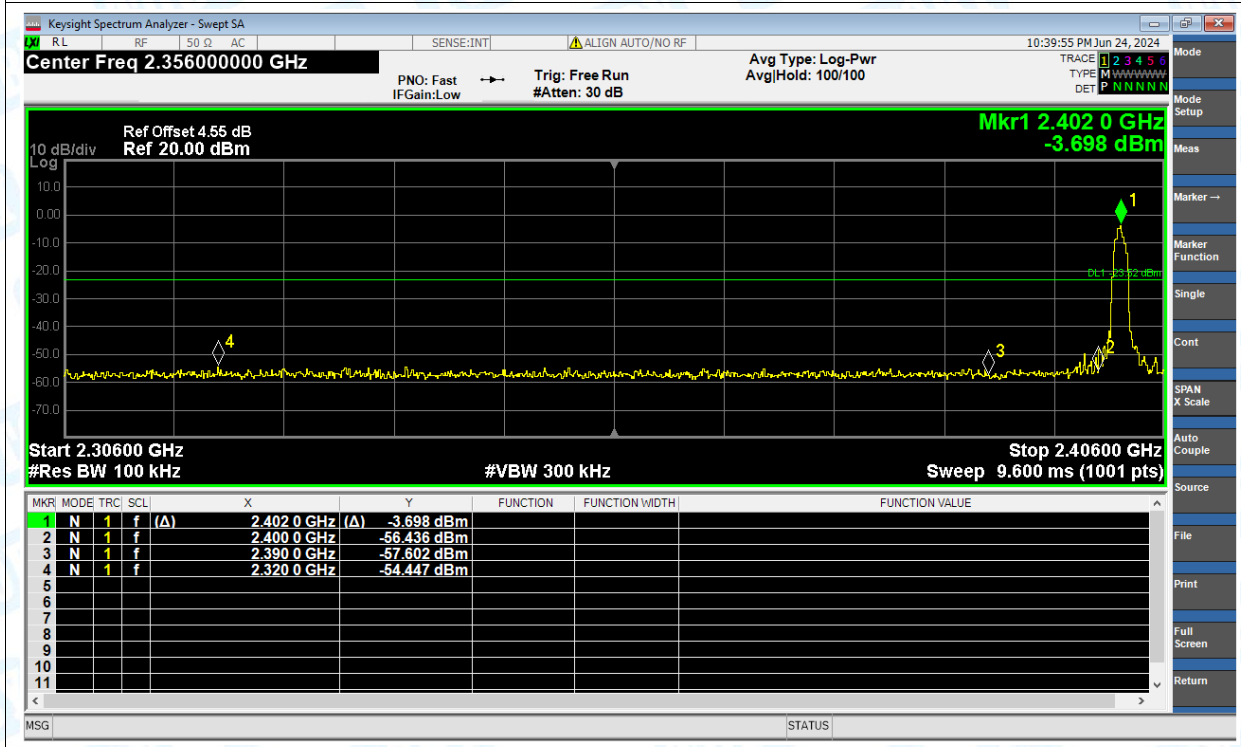
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



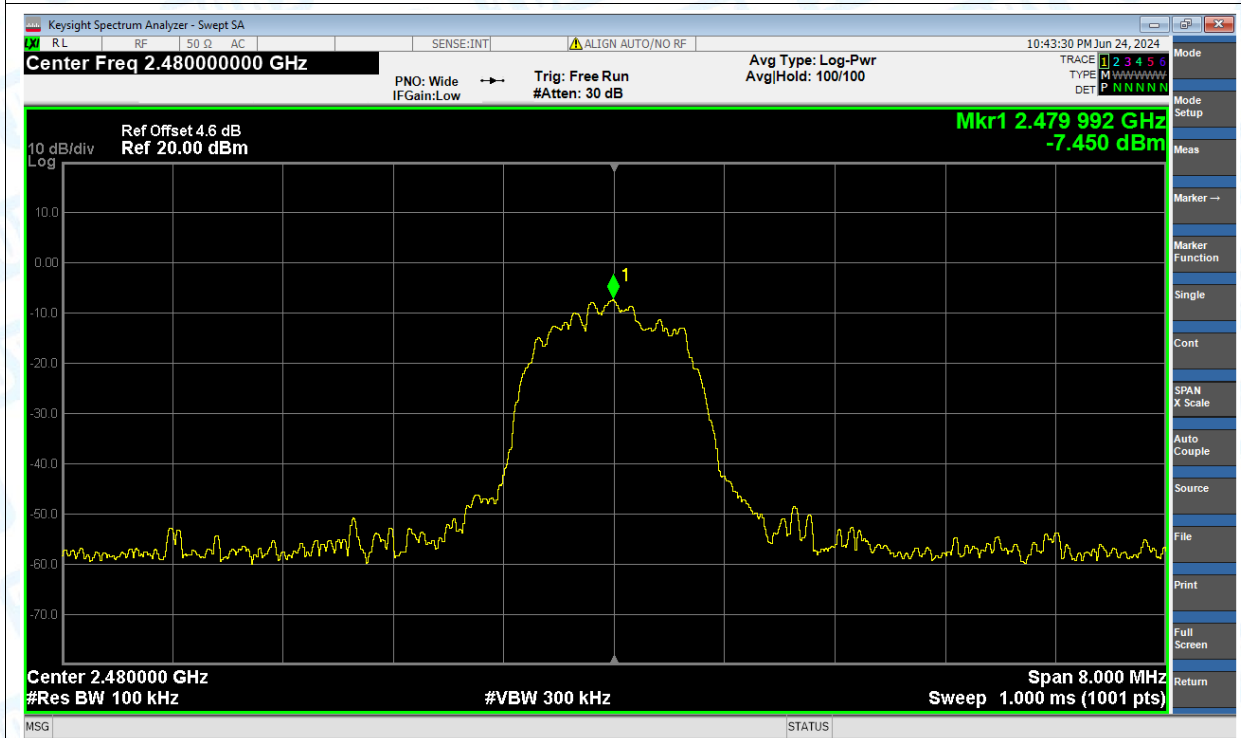
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



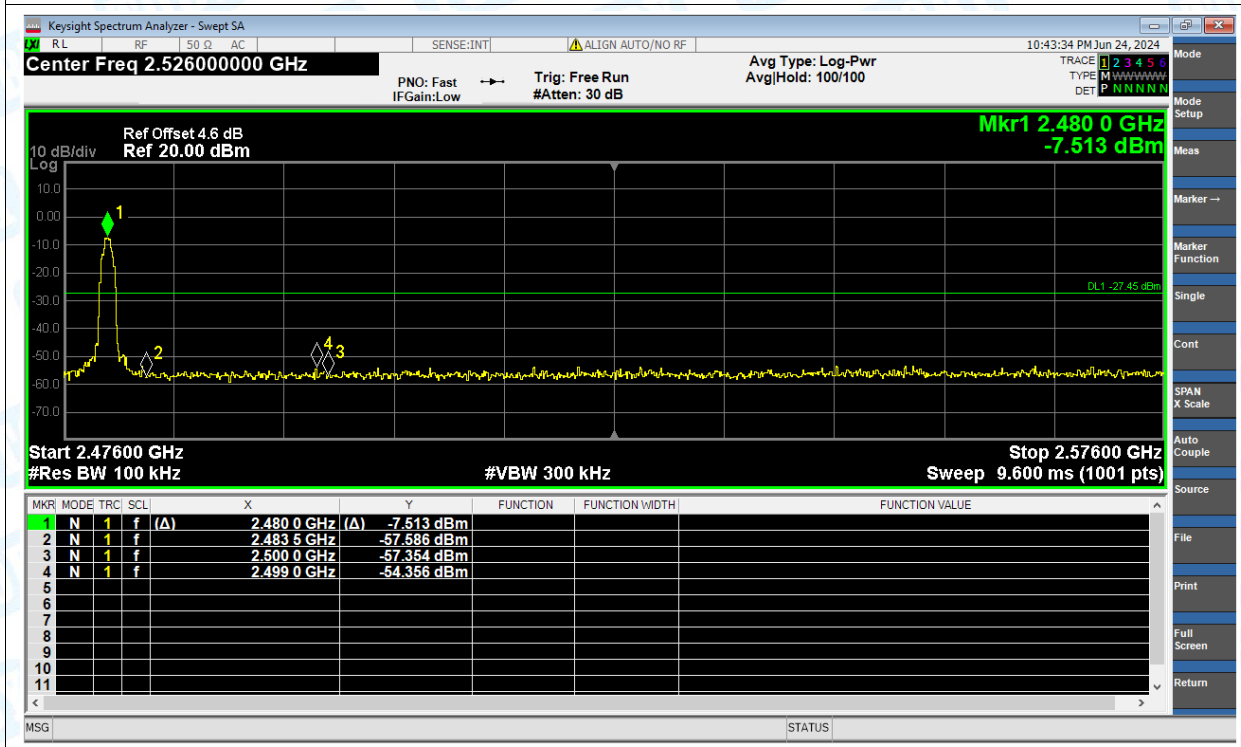
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

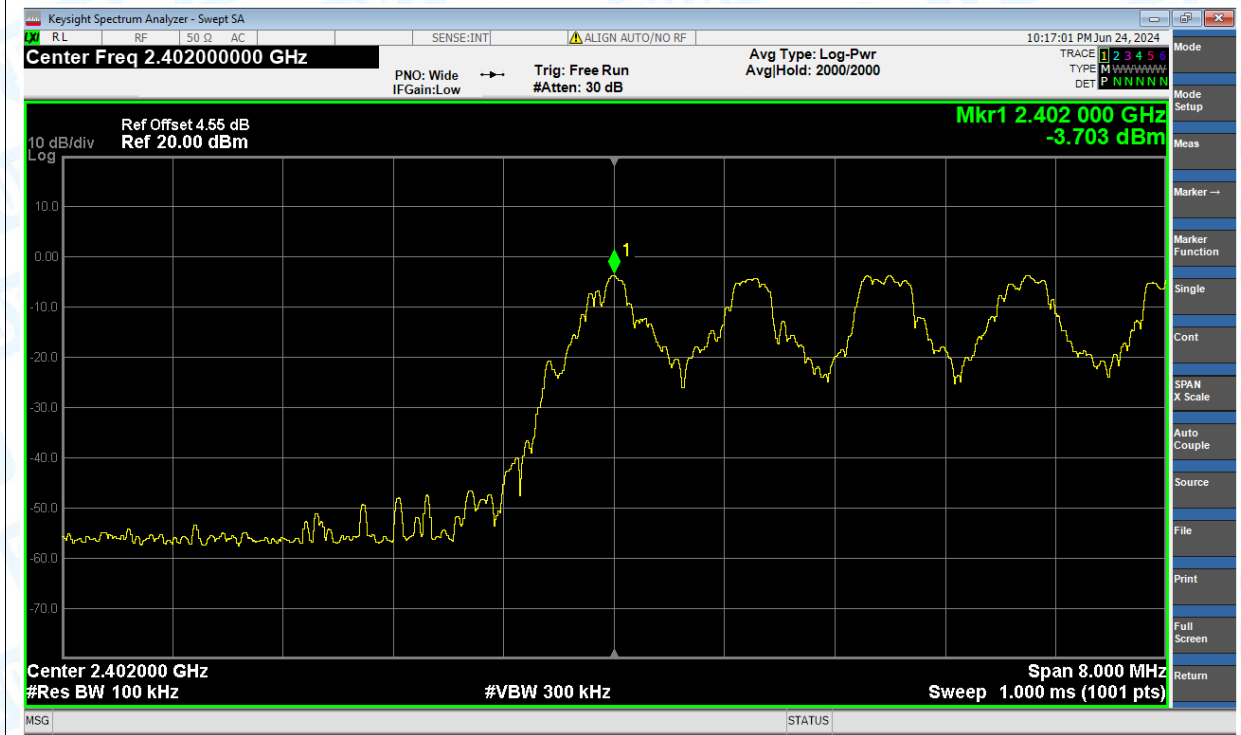


6. Band Edge(Hopping)

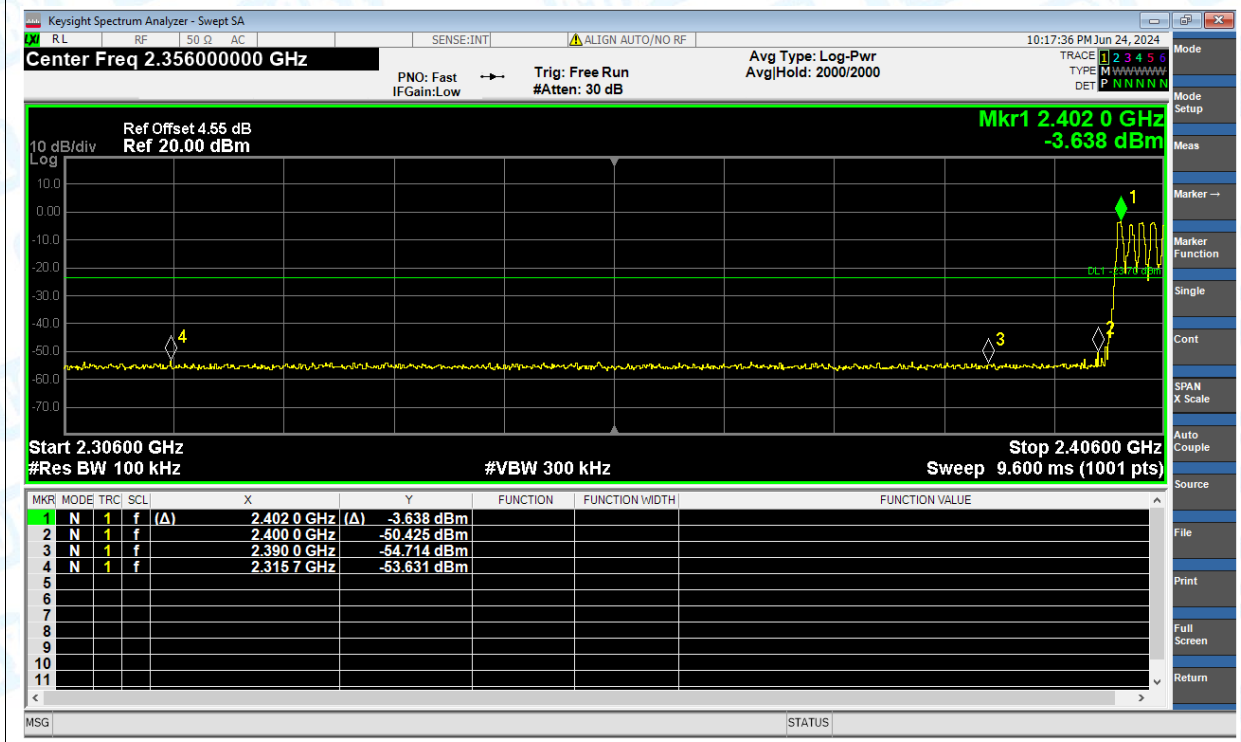
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-49.93	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-45.89	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-49.49	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-45.9	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-49.62	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-45.69	-20	Pass

Test Graphs

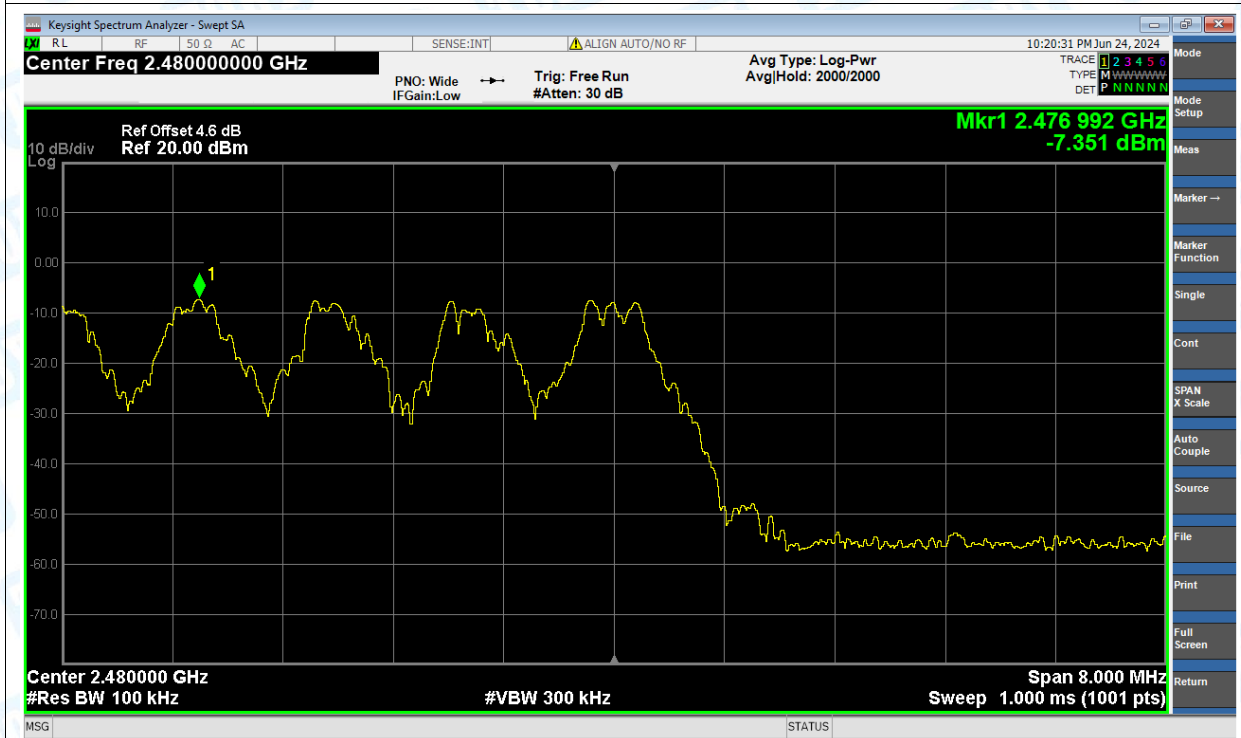
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



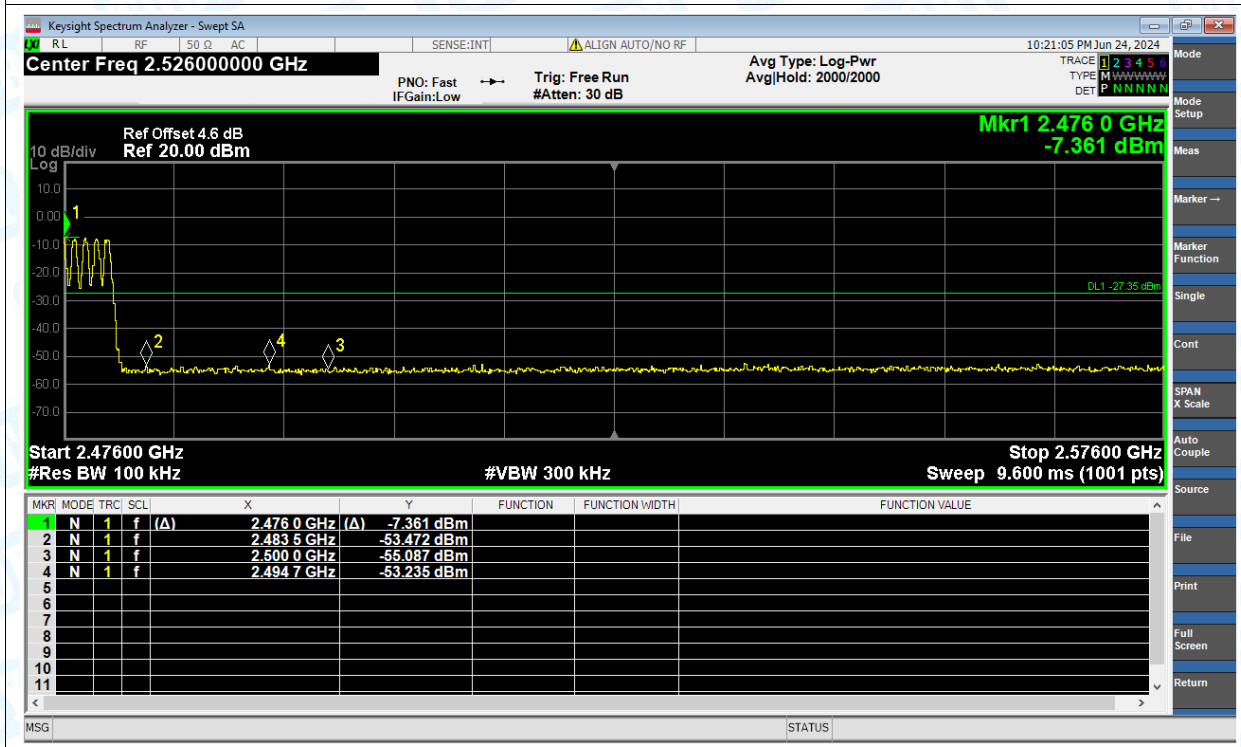
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



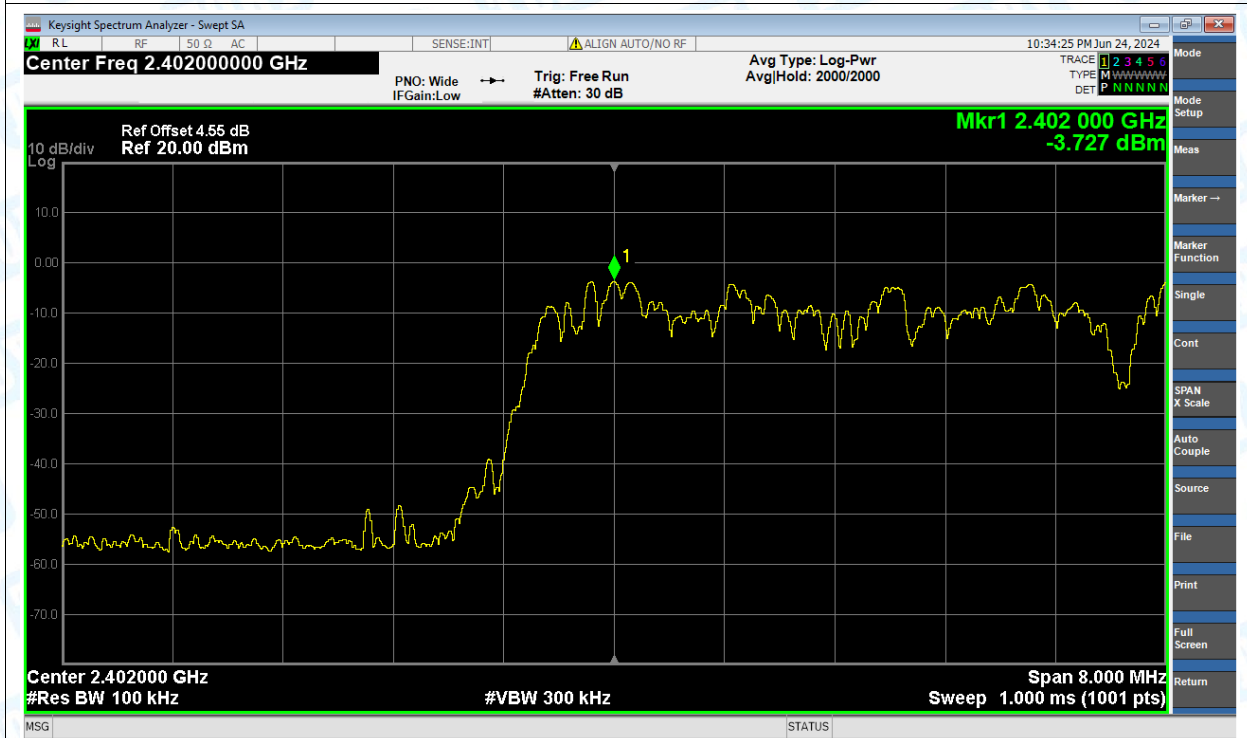
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



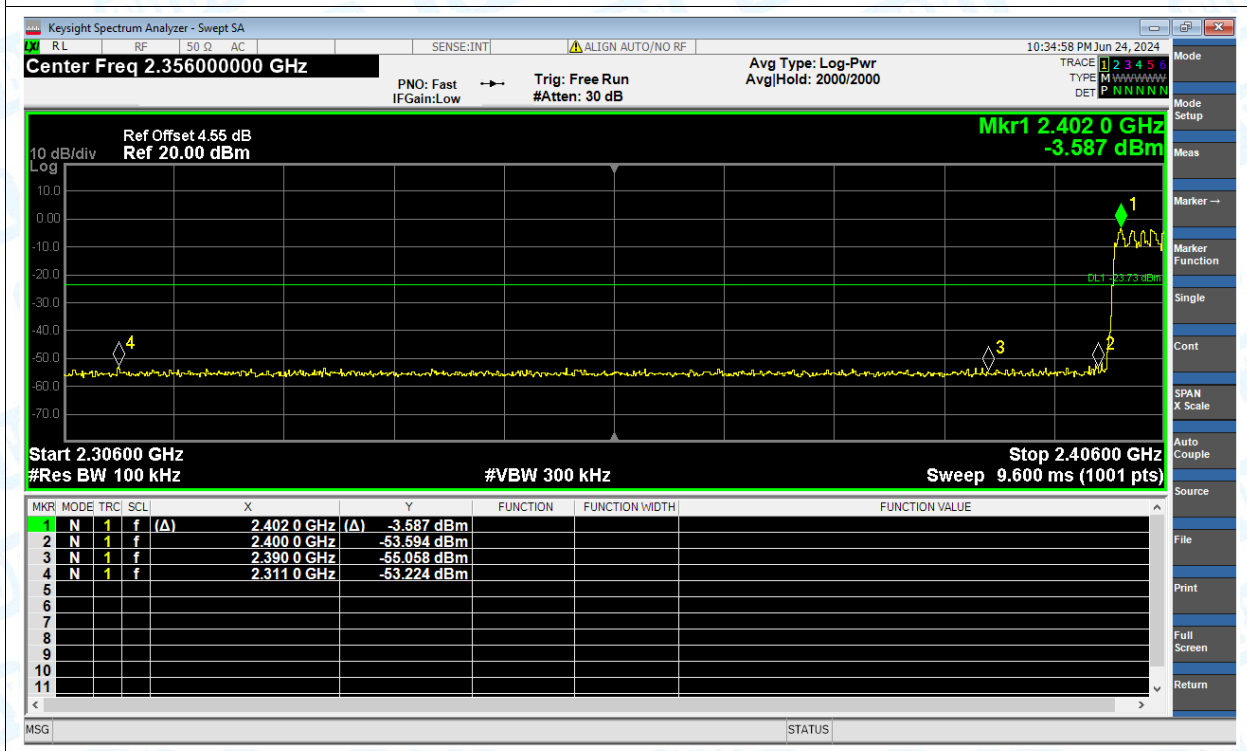
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



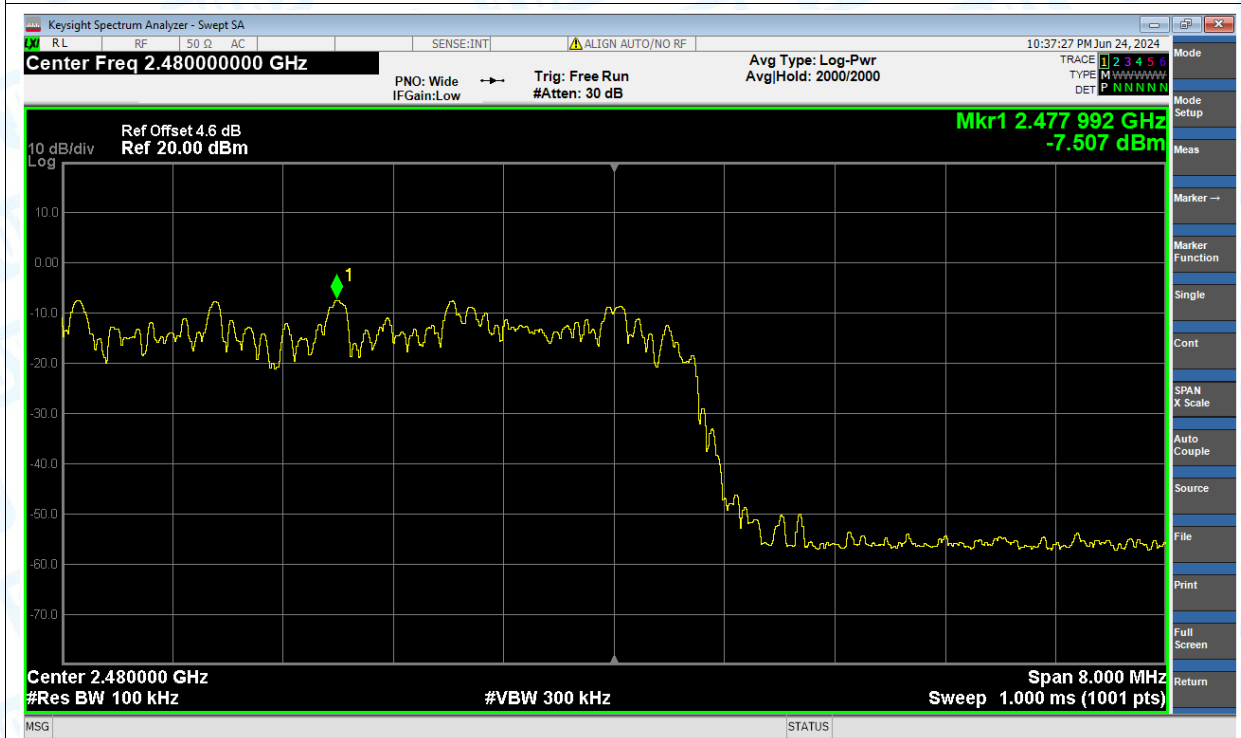
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



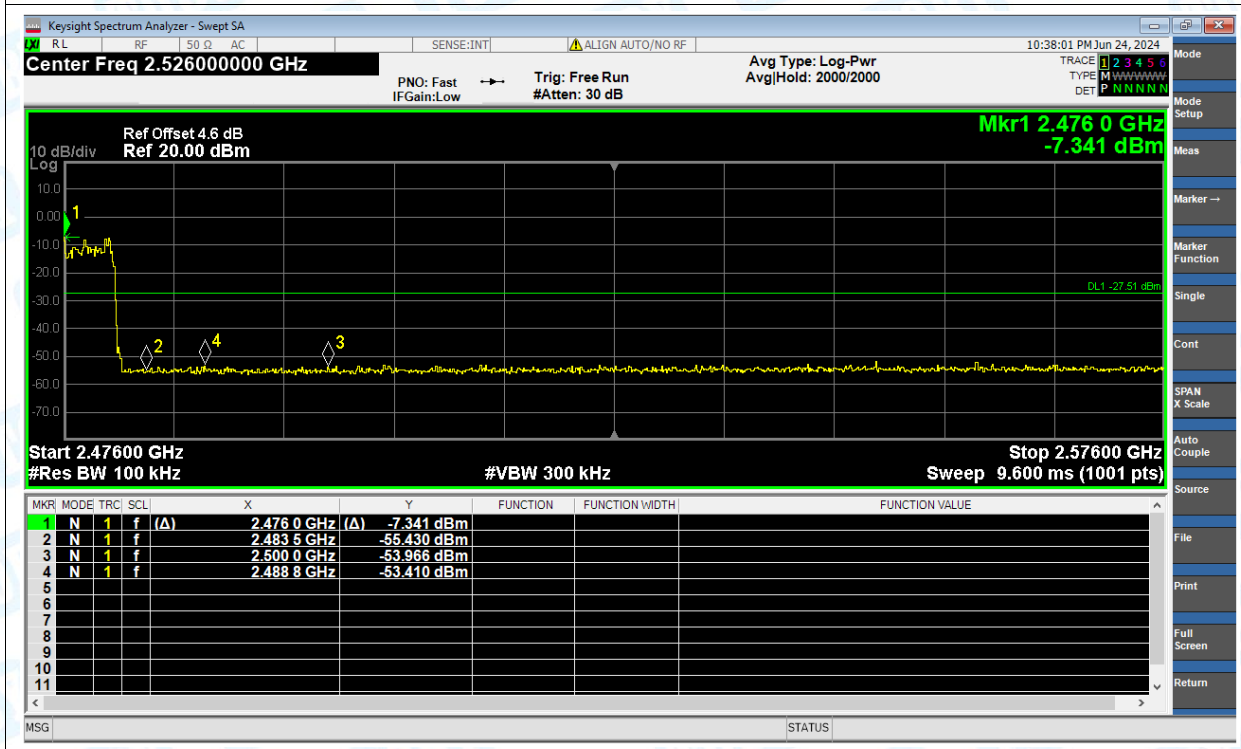
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



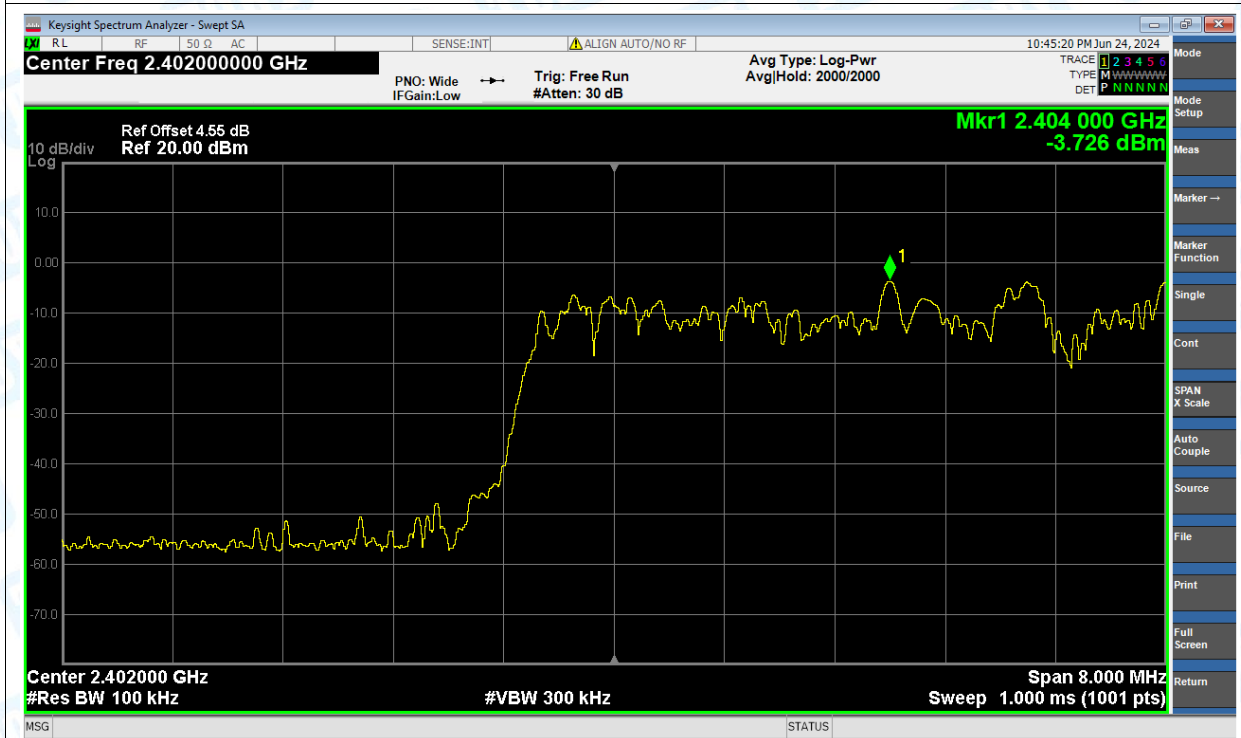
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



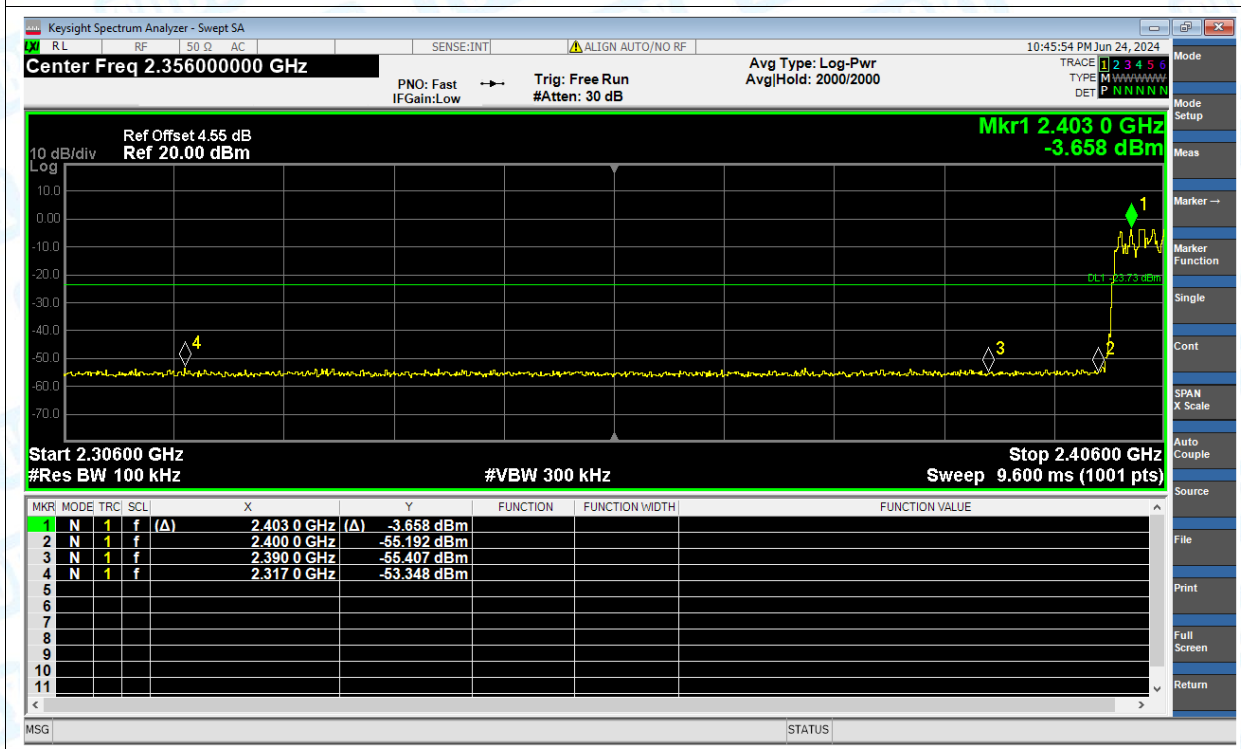
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



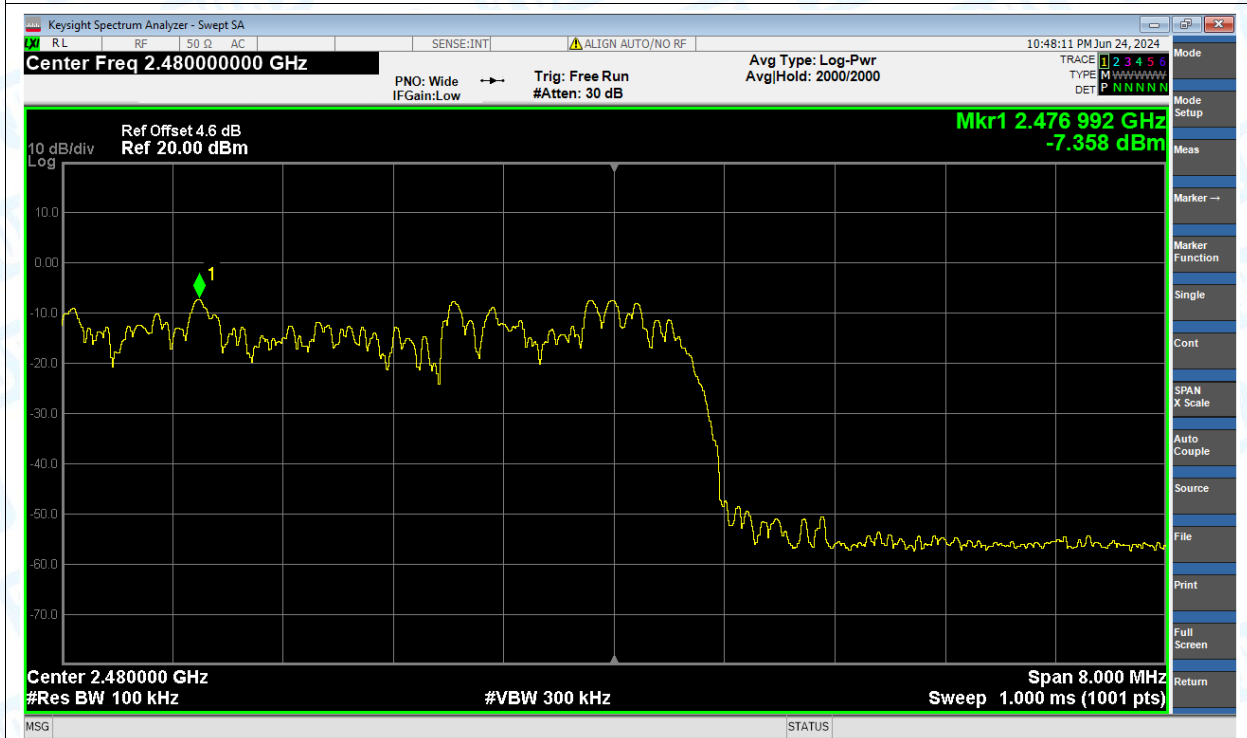
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



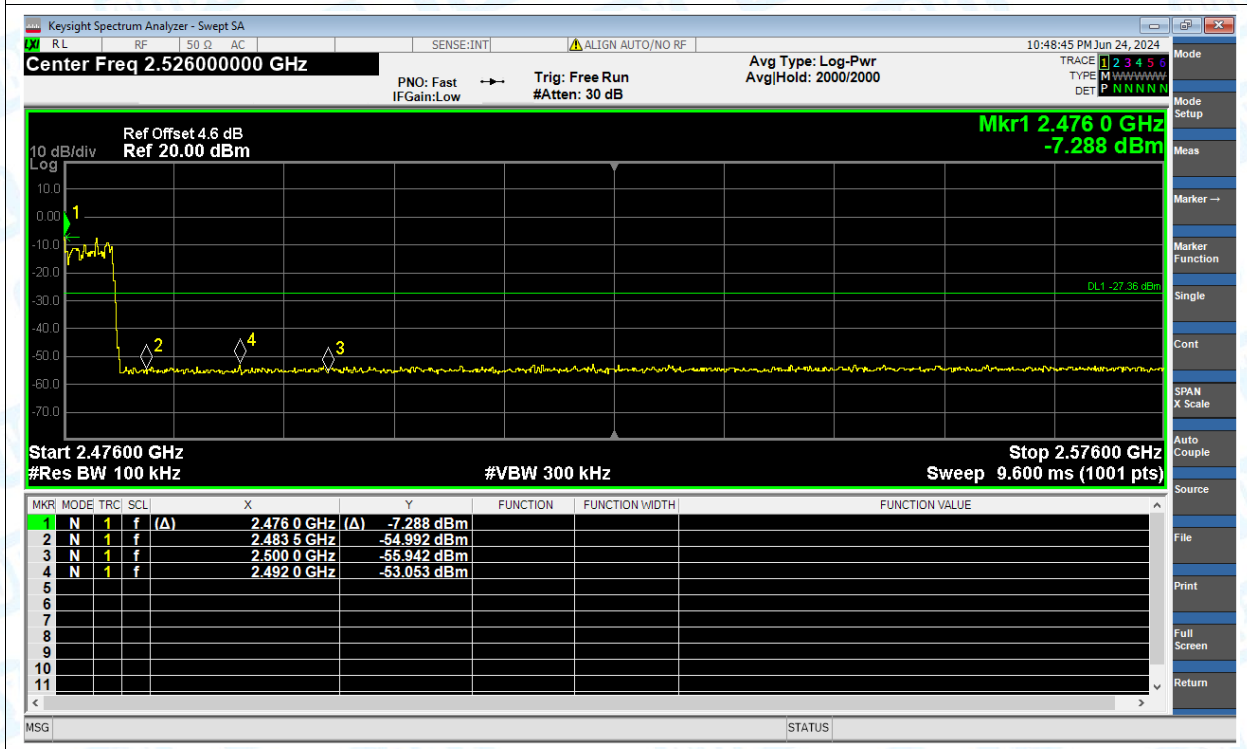
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission

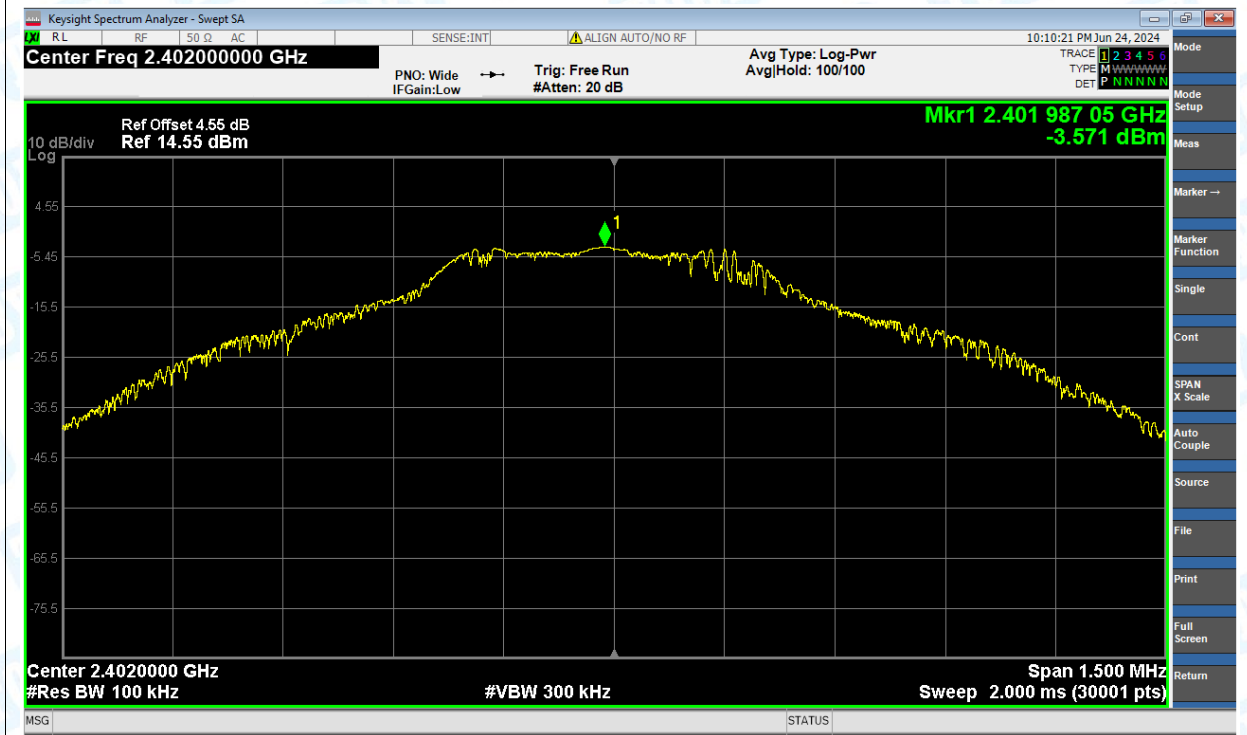


7. Conducted RF Spurious Emission

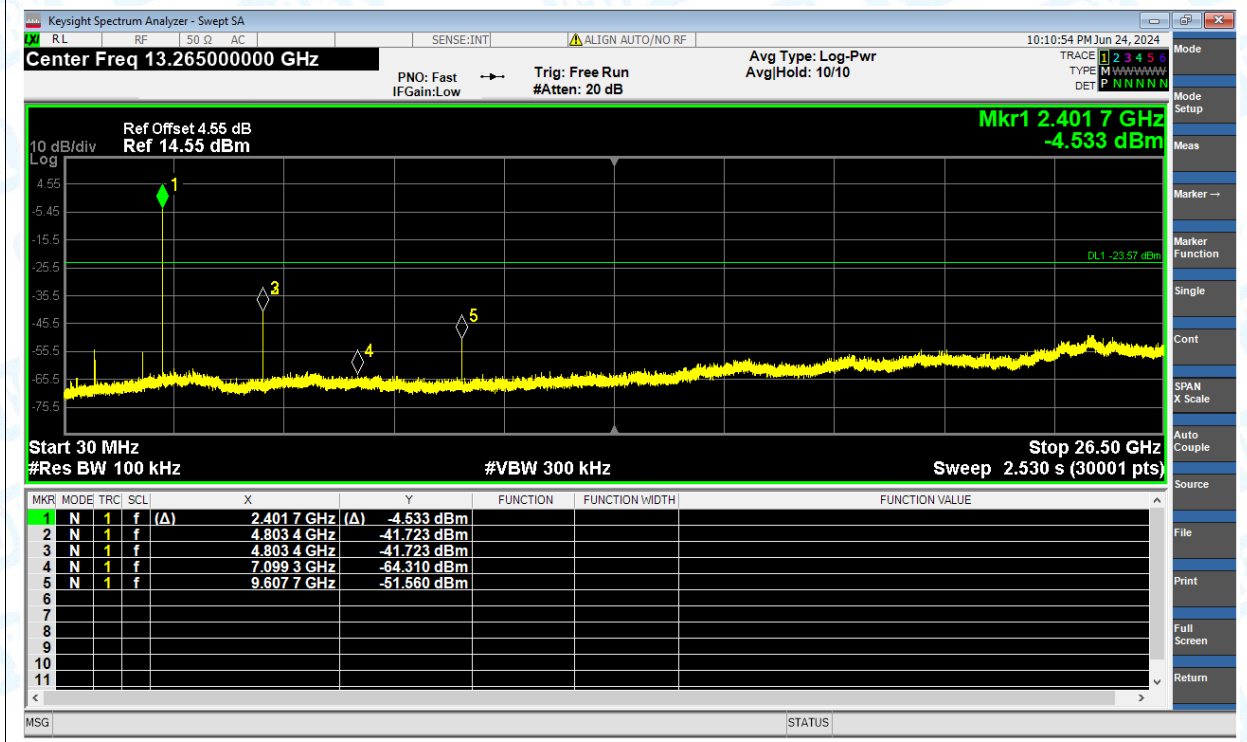
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-38.15	-20	Pass
NVNT	1-DH1	2441	Ant1	-43.65	-20	Pass
NVNT	1-DH1	2480	Ant1	-41	-20	Pass
NVNT	2-DH1	2402	Ant1	-43.51	-20	Pass
NVNT	2-DH1	2441	Ant1	-43.05	-20	Pass
NVNT	2-DH1	2480	Ant1	-42	-20	Pass
NVNT	3-DH1	2402	Ant1	-38.89	-20	Pass
NVNT	3-DH1	2441	Ant1	-42.19	-20	Pass
NVNT	3-DH1	2480	Ant1	-41.96	-20	Pass

Test Graphs

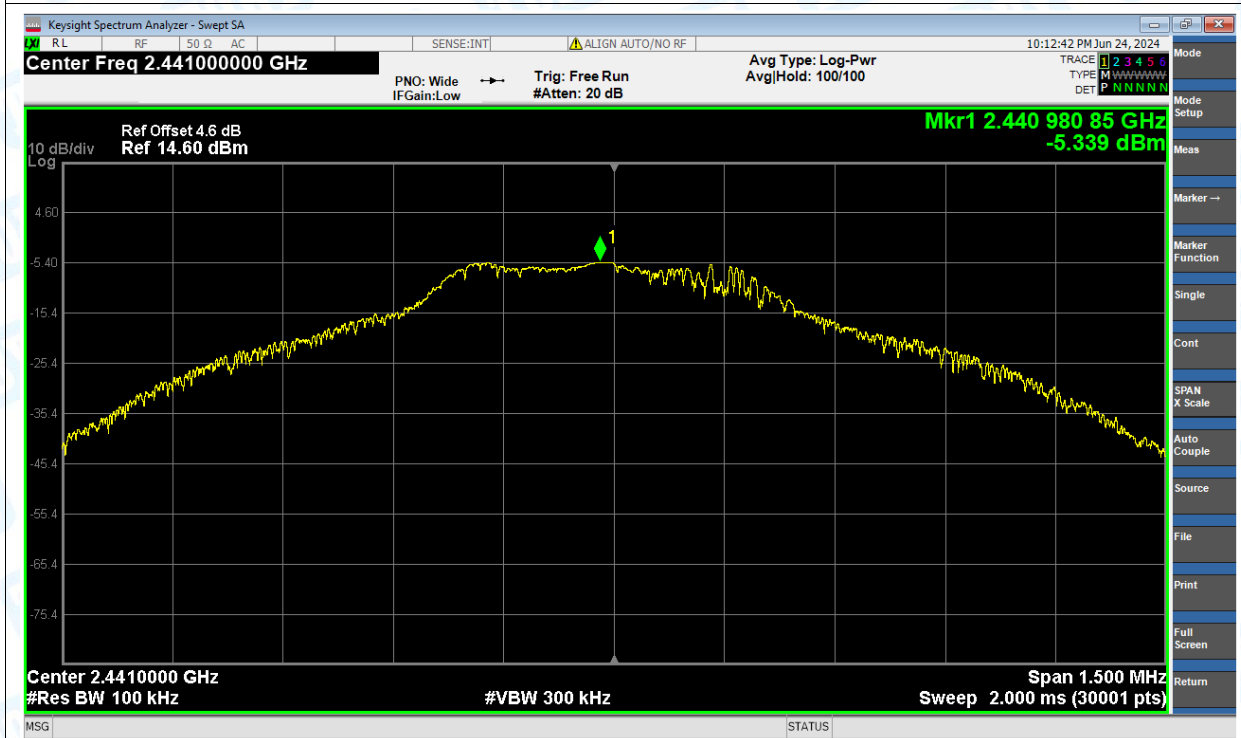
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



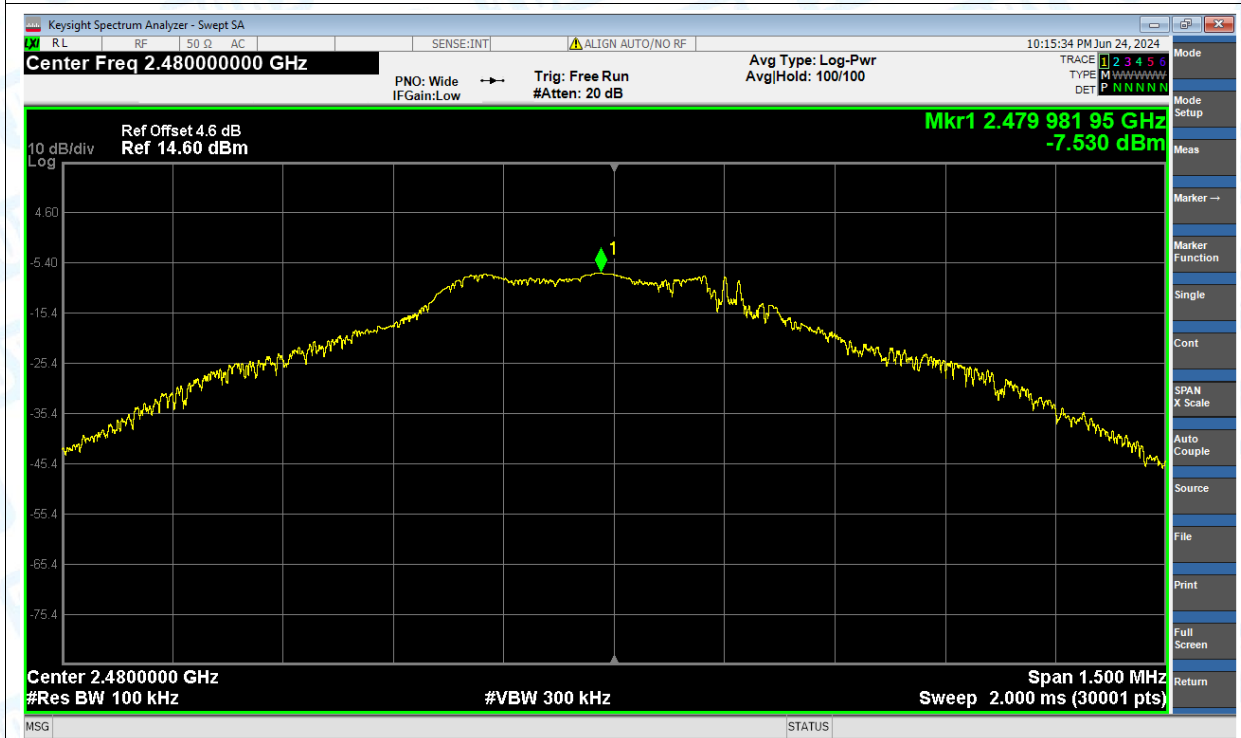
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



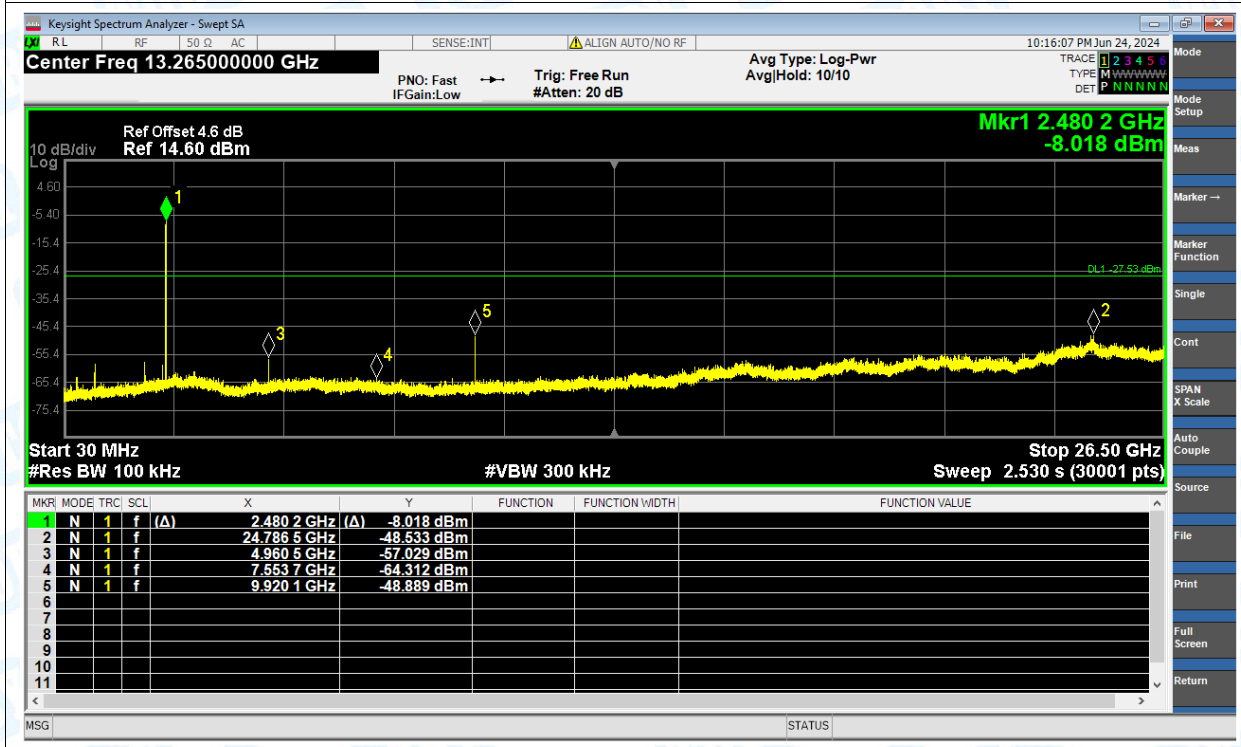
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



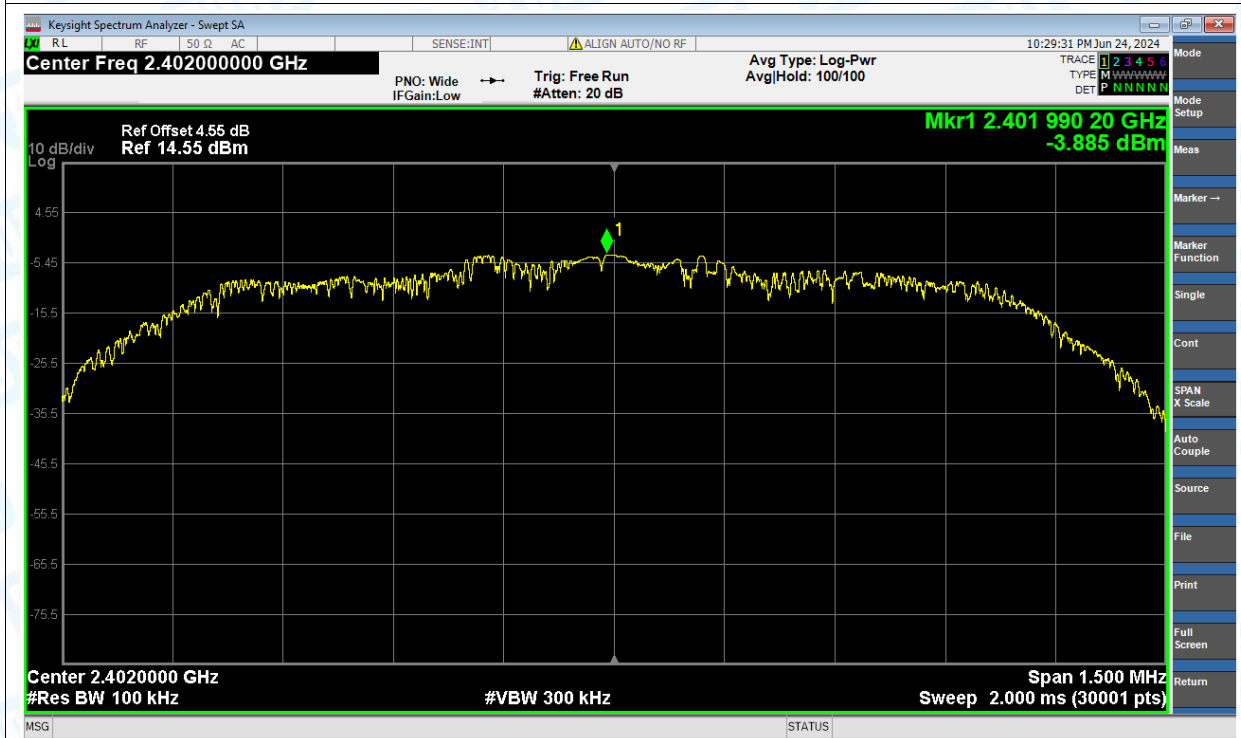
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



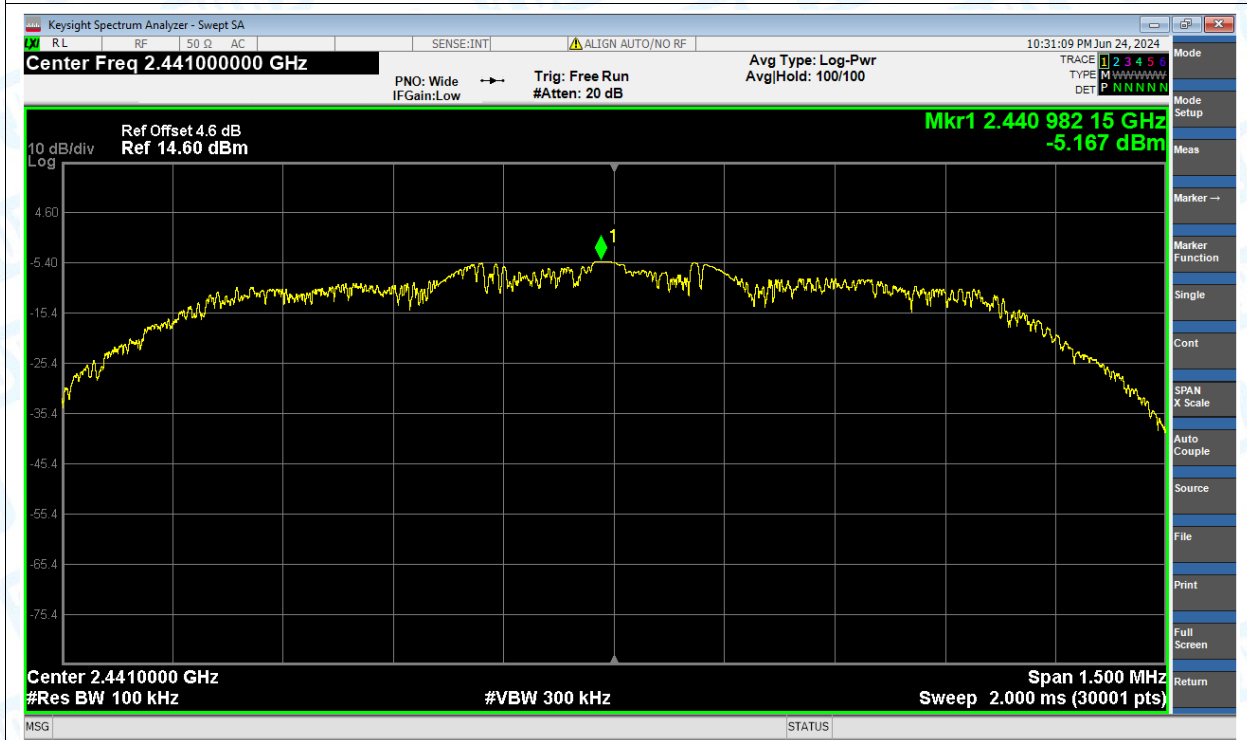
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



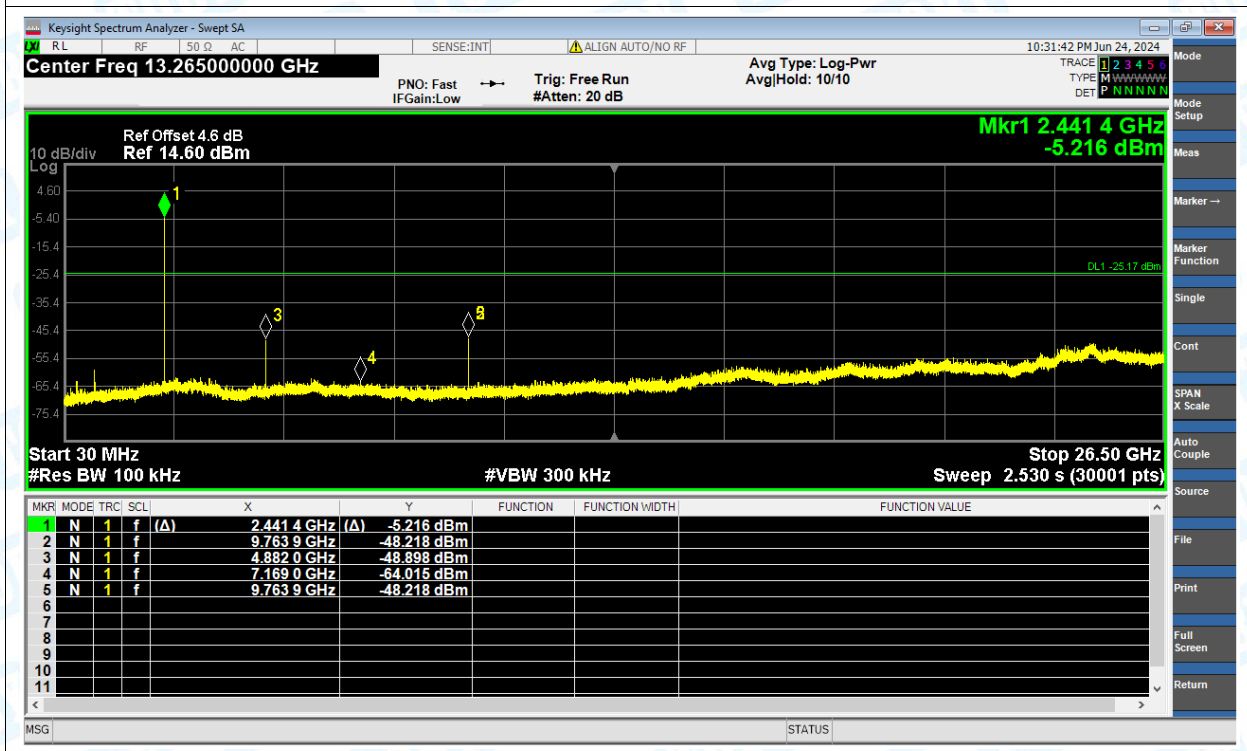
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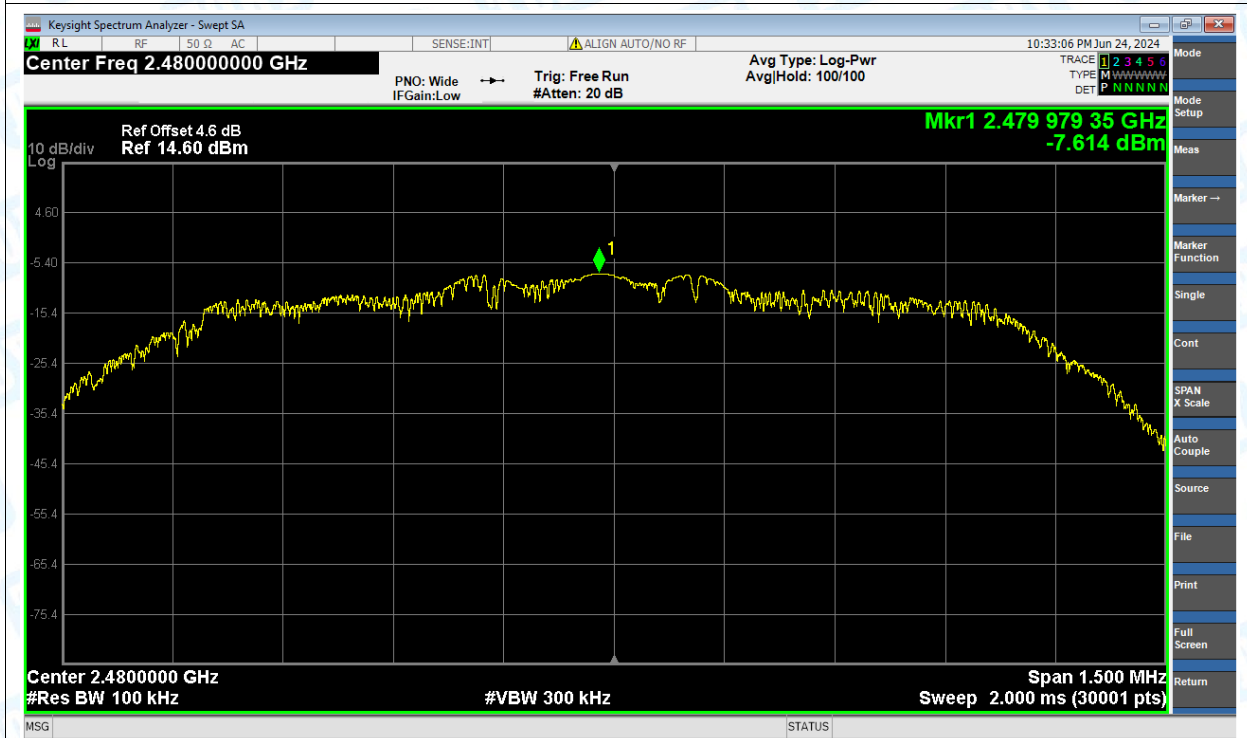
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



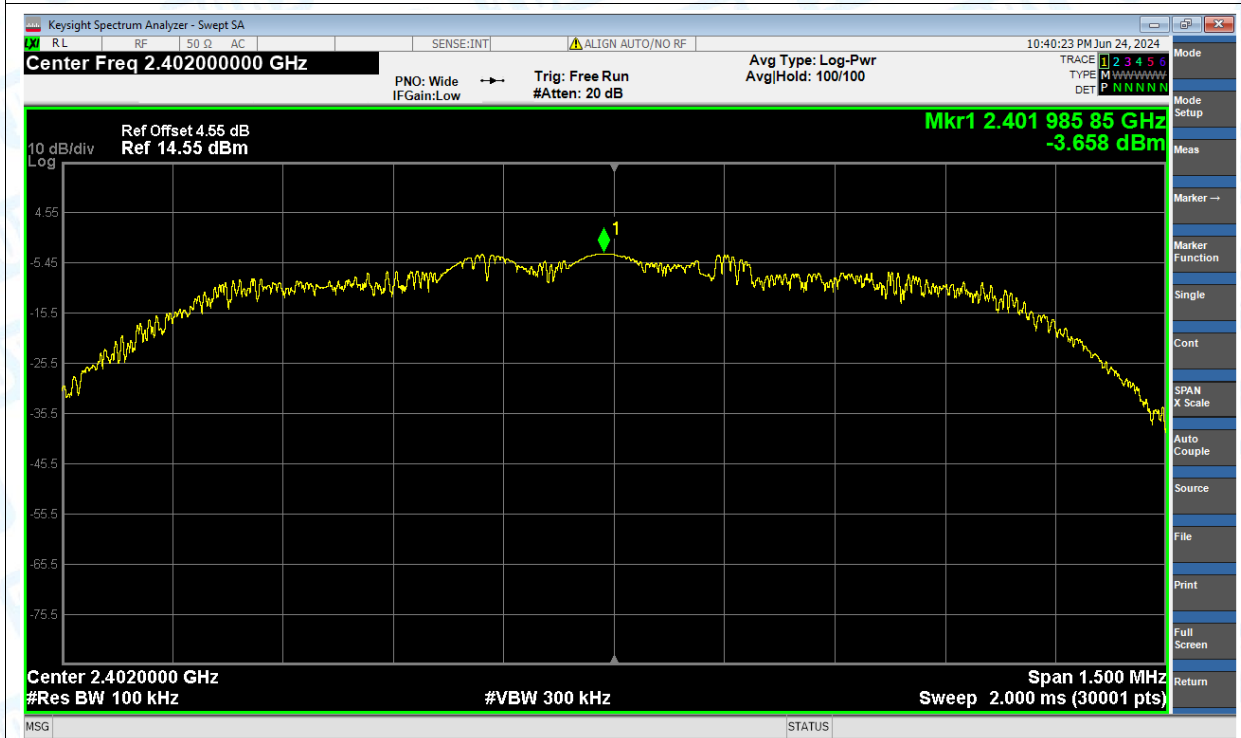
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



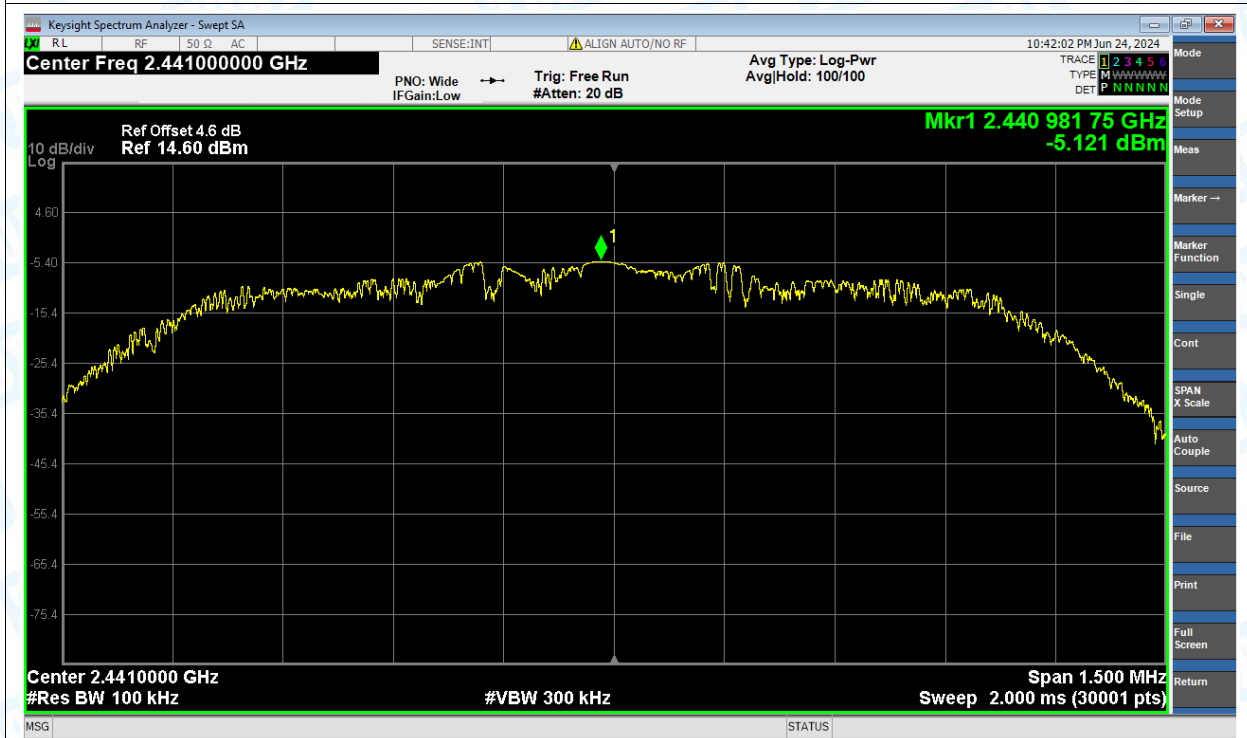
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



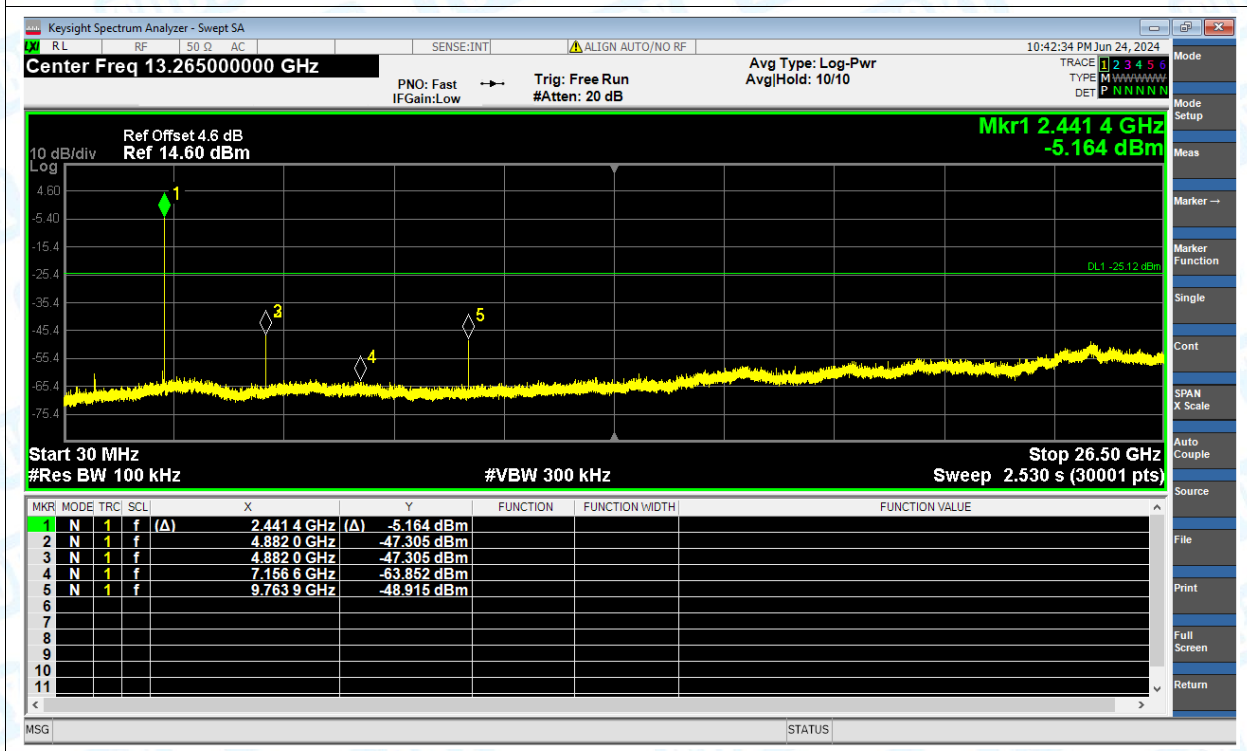
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



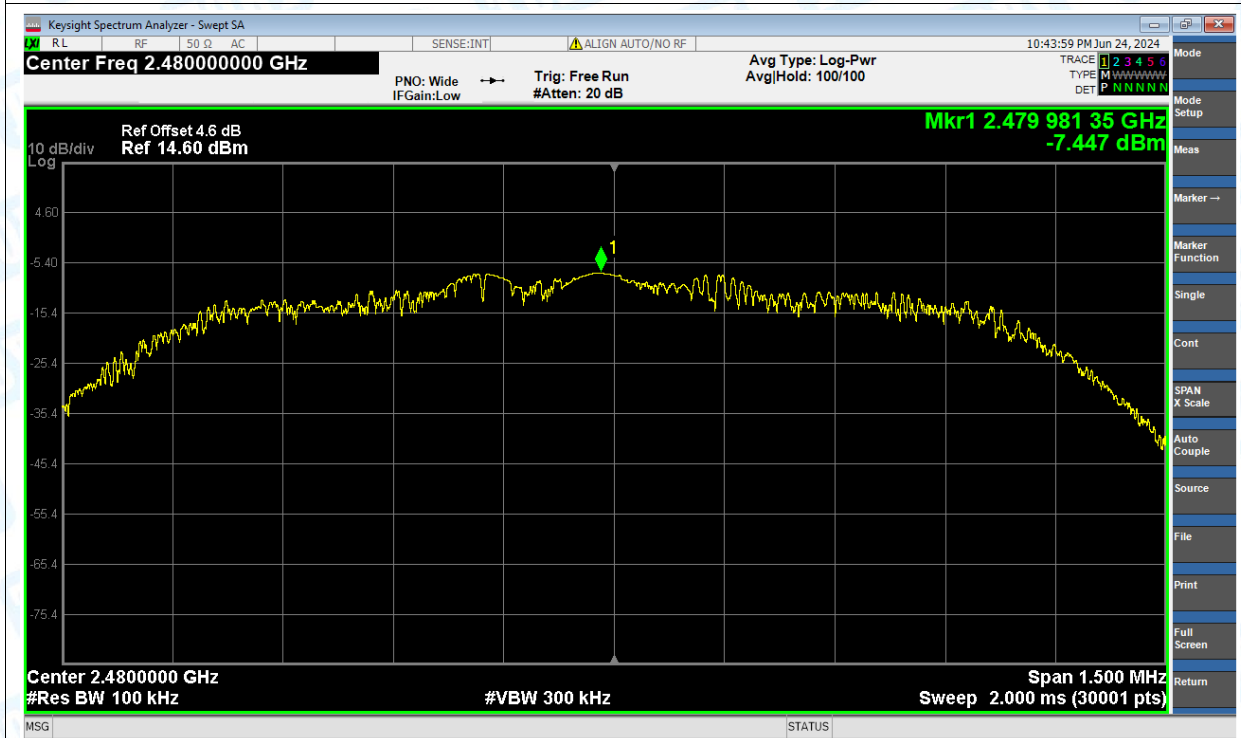
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



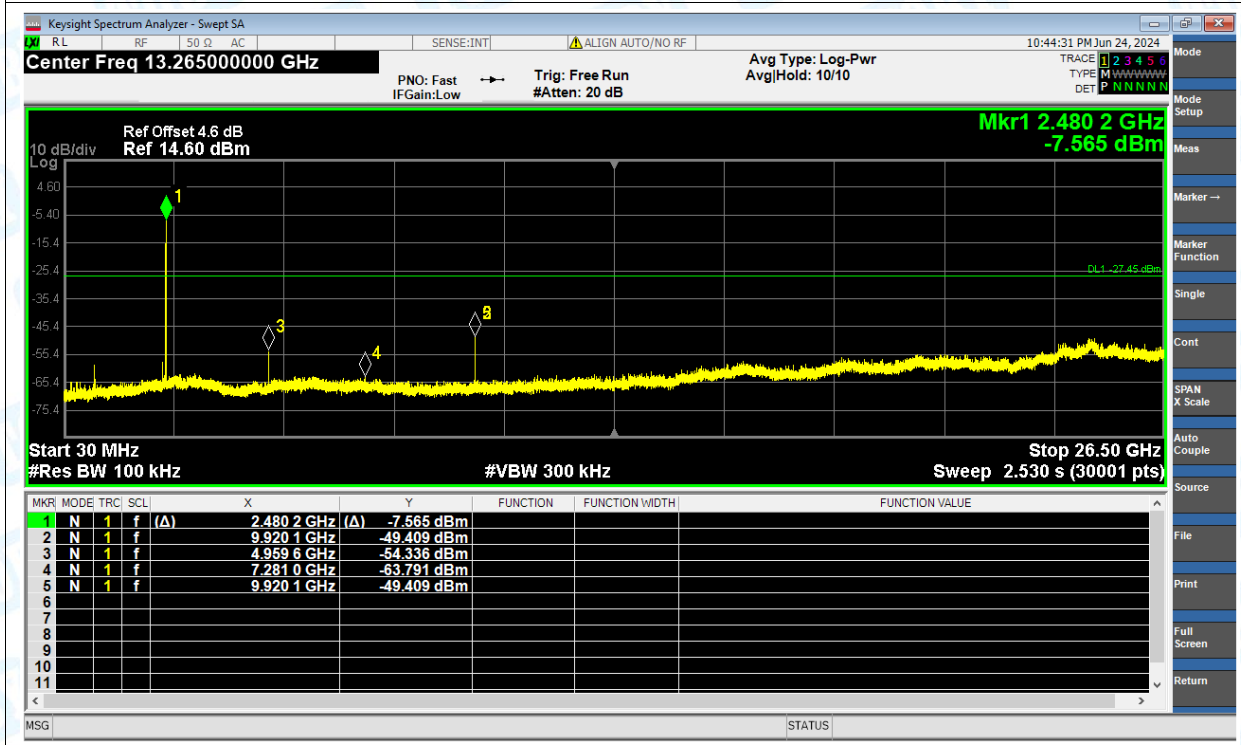
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

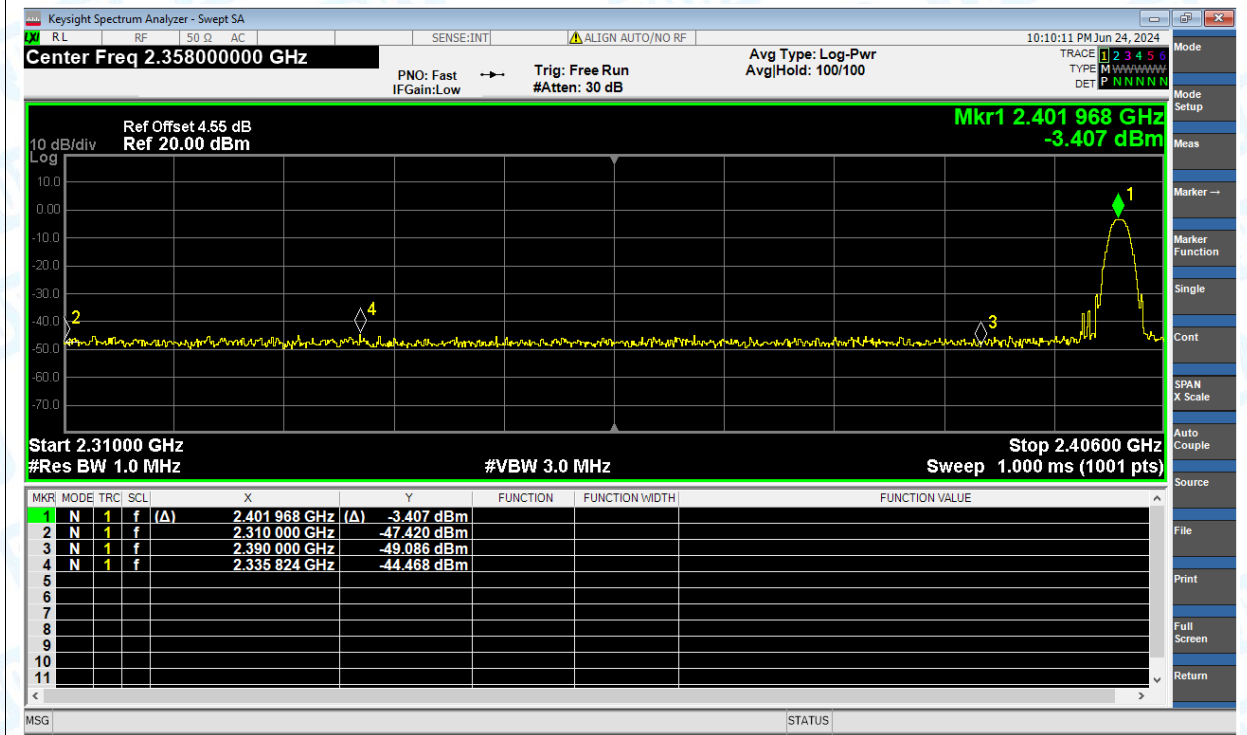


8. Restrict Band

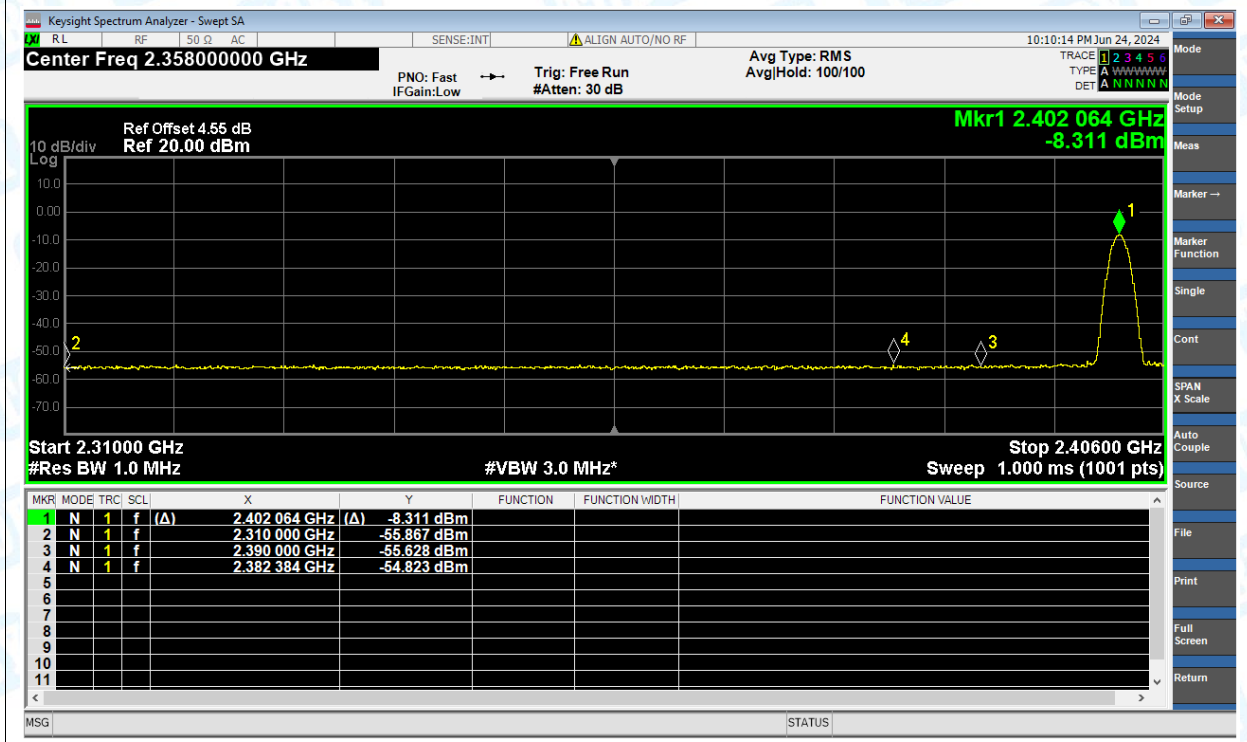
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.42	6.4	-	54.24	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.87	6.4	4.84	50.63	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2335.824	-44.47	6.4	-	57.19	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2382.384	-54.82	6.4	4.84	51.68	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-49.09	6.4	-	52.57	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.63	6.4	4.84	50.87	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-42.03	6.4	-	59.63	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.22	6.4	4.84	51.28	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.512	-42.03	6.4	-	59.63	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2490.424	-54.37	6.4	4.84	52.13	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.28	6.4	-	54.38	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.46	6.4	4.84	51.04	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.46	6.4	-	53.2	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.9	6.4	4.63	50.39	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2384.496	-44.31	6.4	-	57.35	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2386.992	-54.85	6.4	4.63	51.44	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.86	6.4	-	54.8	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.12	6.4	4.63	51.17	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-45.69	6.4	-	55.97	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.23	6.4	4.63	51.06	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2499.664	-43.69	6.4	-	57.97	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.896	-54.49	6.4	4.63	51.8	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.99	6.4	-	53.67	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.65	6.4	4.63	50.64	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-45.94	6.4	-	55.72	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.67	6.4	4.63	50.62	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2389.968	-44.16	6.4	-	57.5	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2387.664	-54.79	6.4	4.63	51.5	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-44.16	6.4	-	57.5	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.24	6.4	4.63	51.05	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.25	6.4	-	54.41	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.68	6.4	4.74	51.72	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2499.424	-44.22	6.4	-	57.44	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.136	-54.5	6.4	4.74	51.9	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.78	6.4	-	53.88	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.18	6.4	4.74	51.22	Average	54	Pass

Test Graphs

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



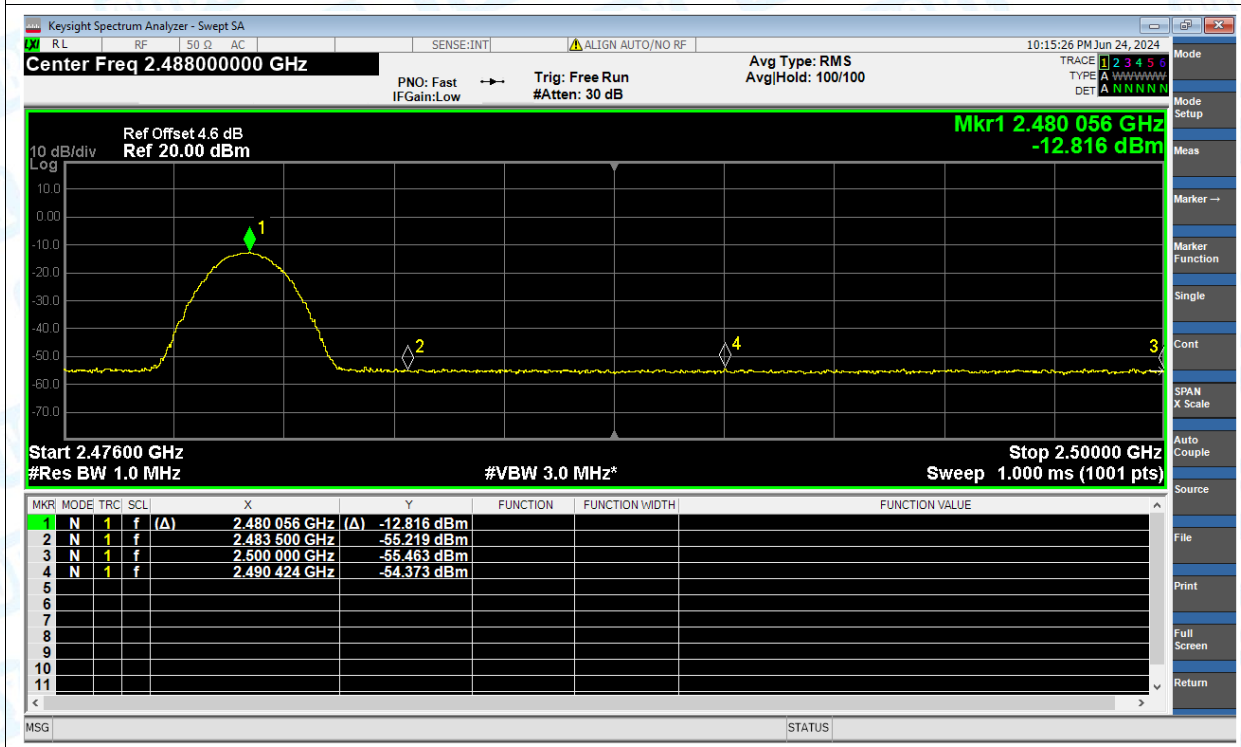
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



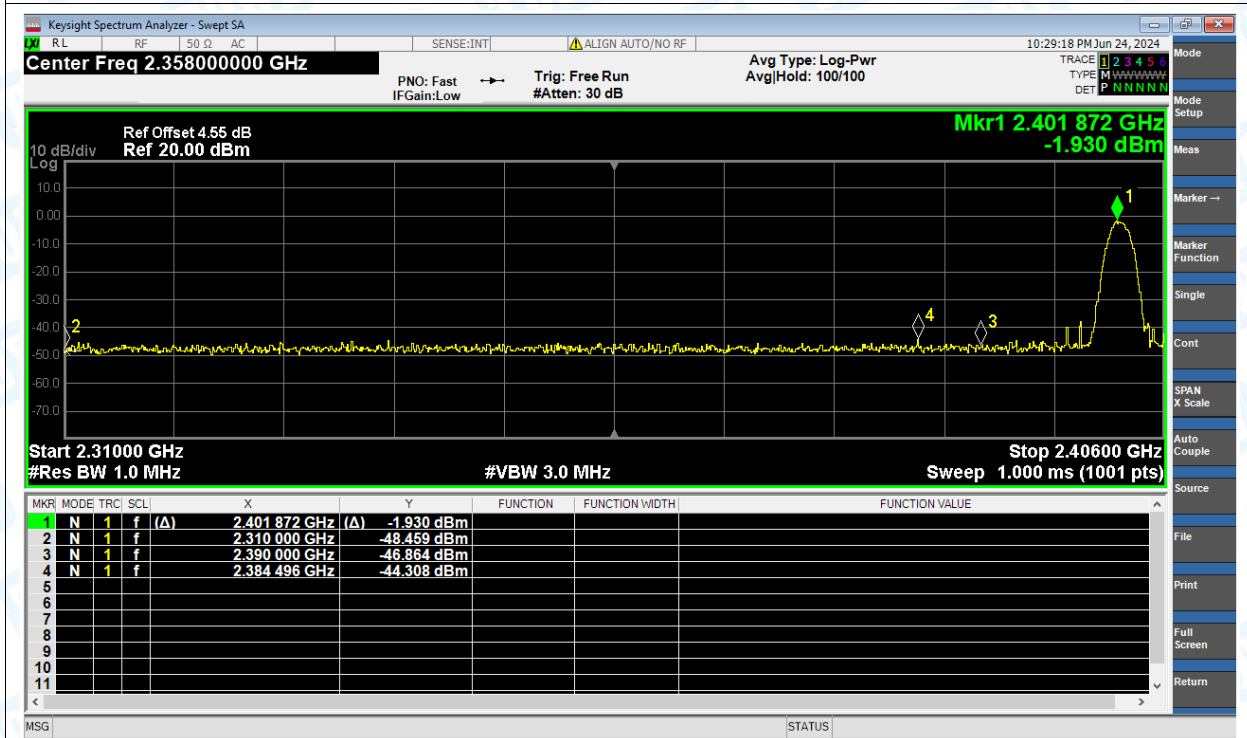
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



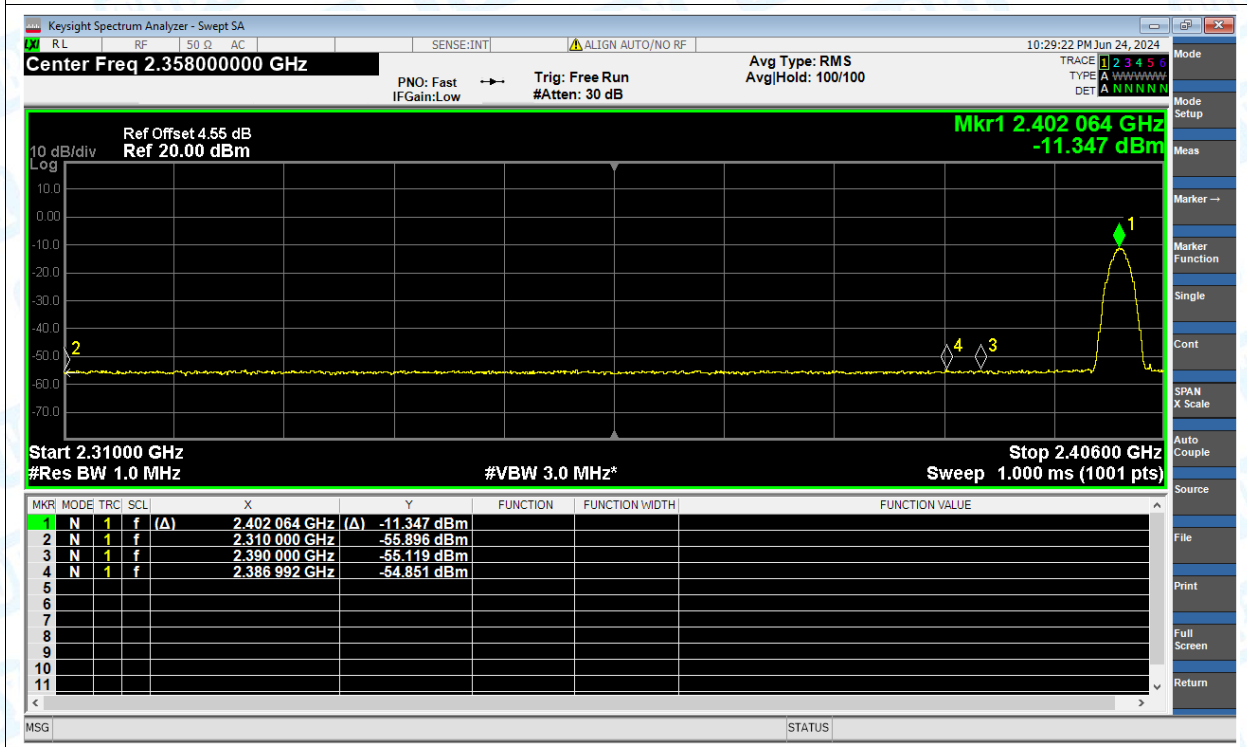
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



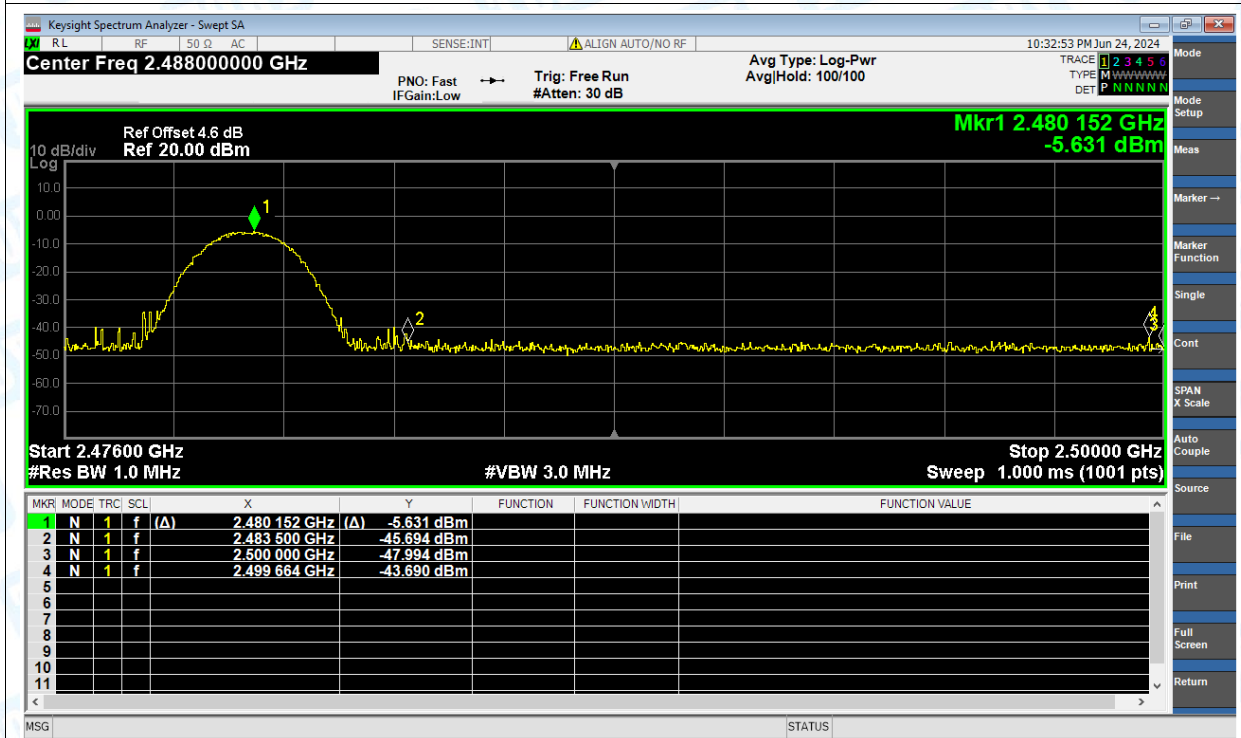
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



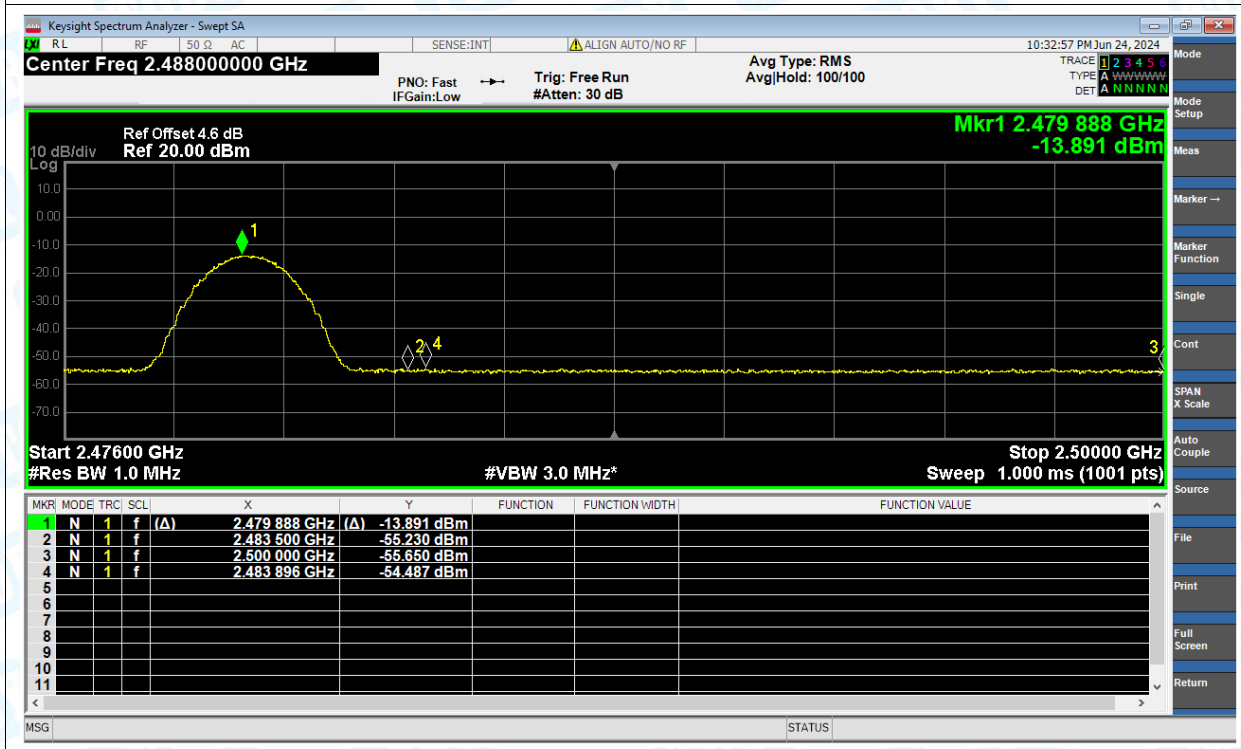
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



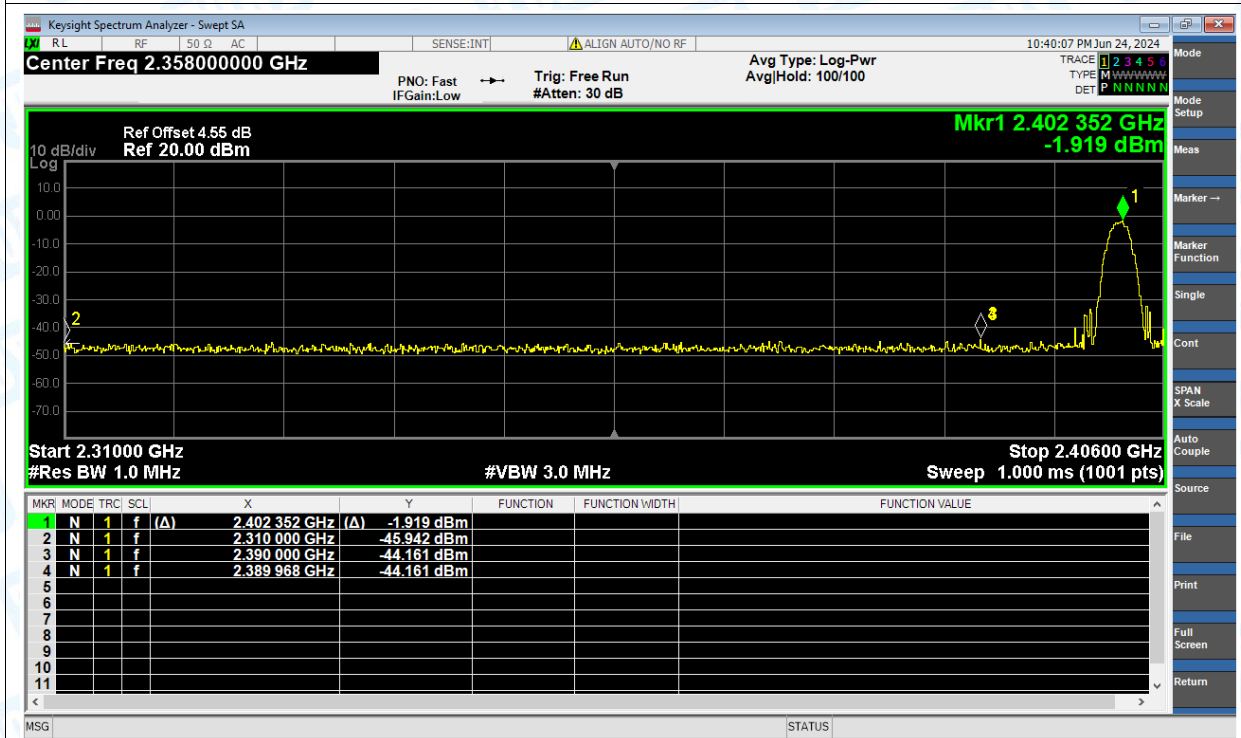
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



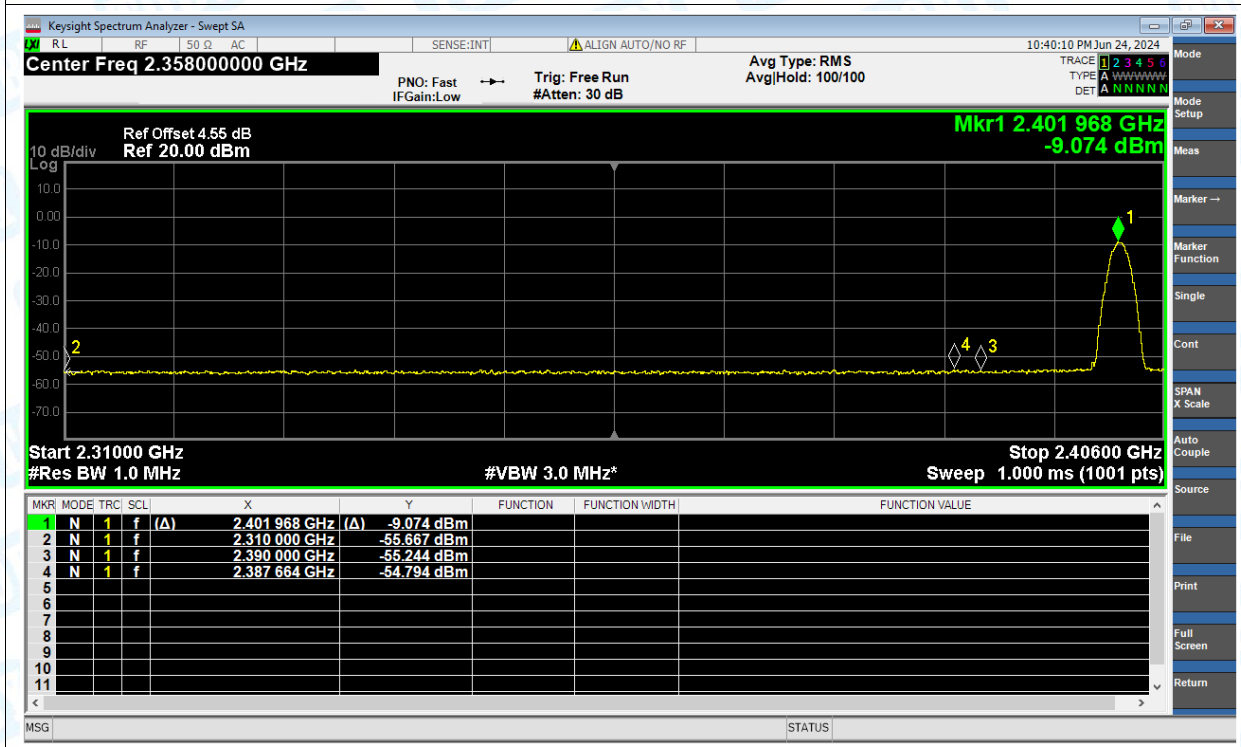
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



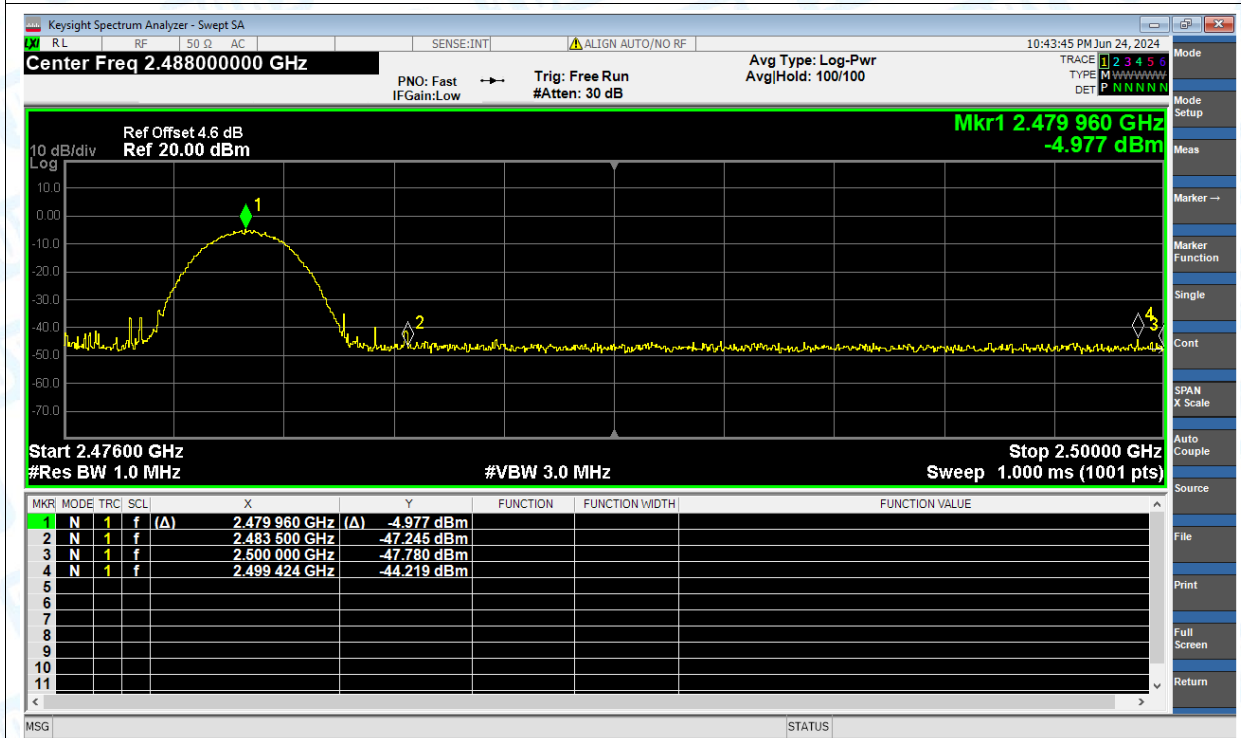
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



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

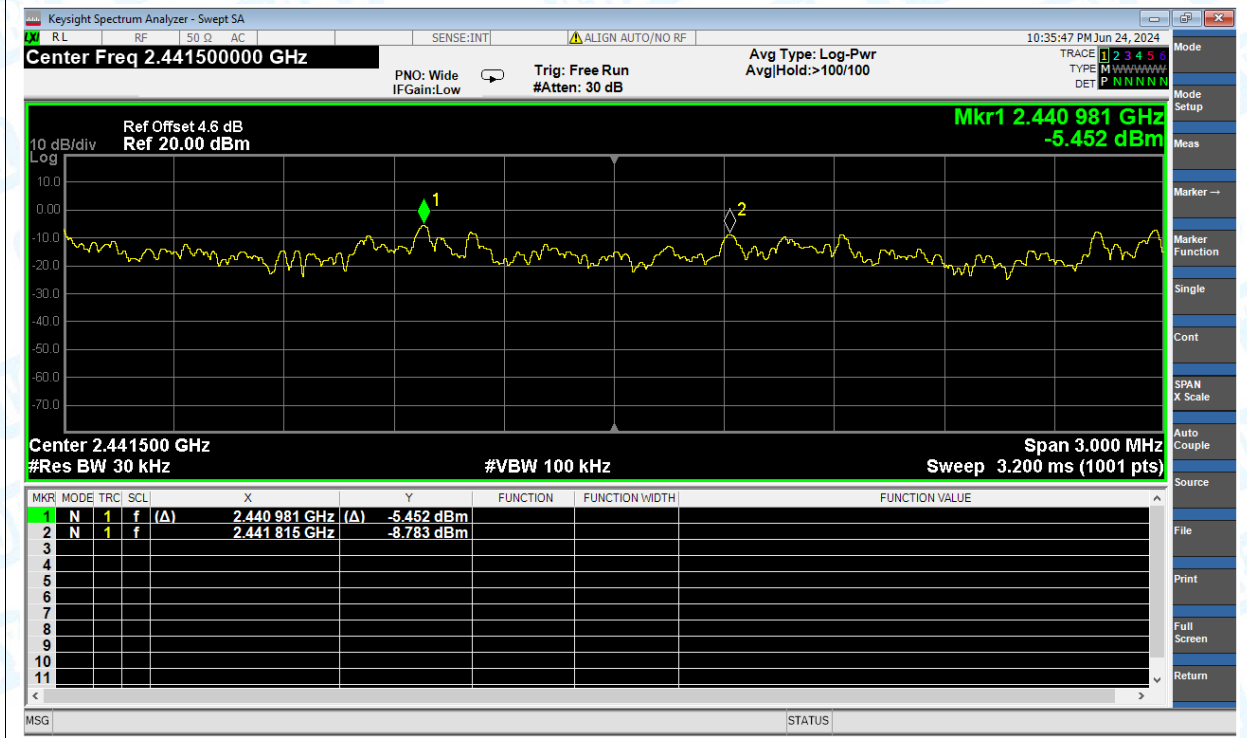
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.996	2441.986	0.99	0.58	Pass
NVNT	2-DH1	Ant1	2440.981	2441.815	0.834	0.833	Pass
NVNT	3-DH1	Ant1	2440.99	2441.809	0.819	0.8	Pass

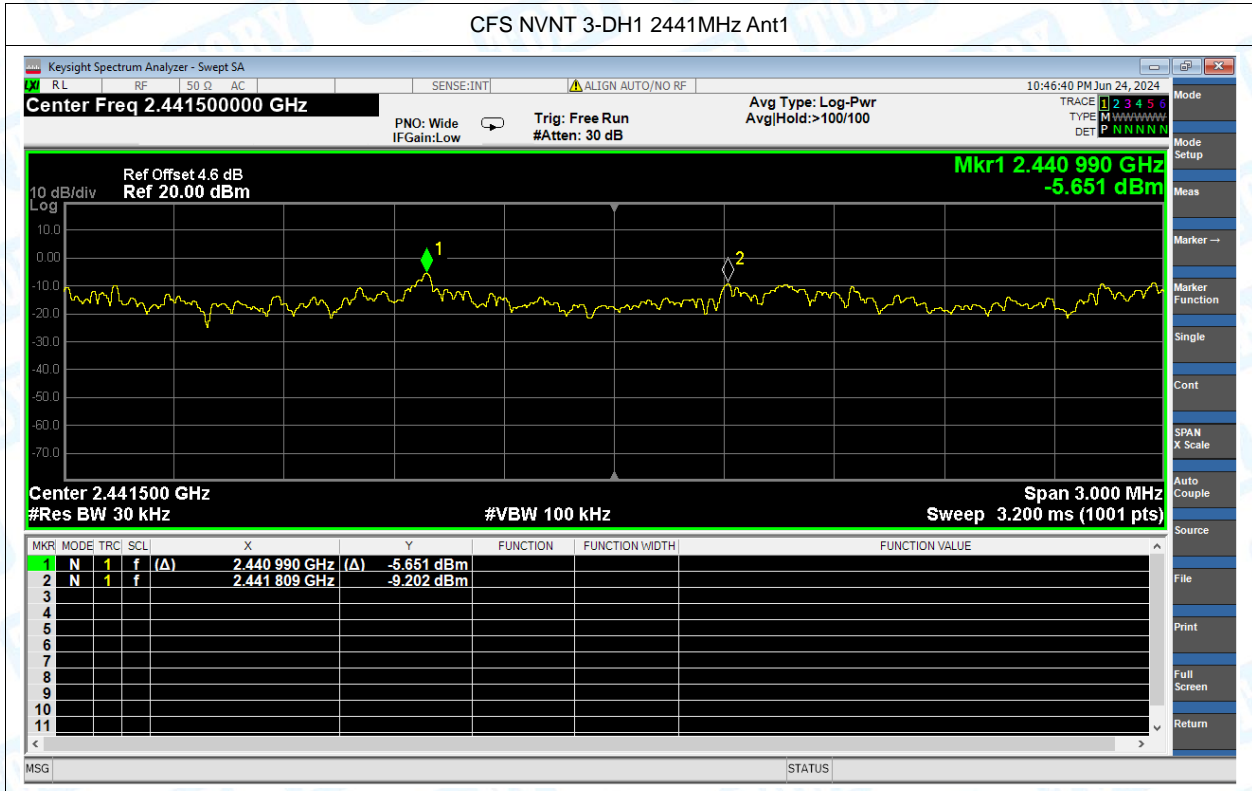
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



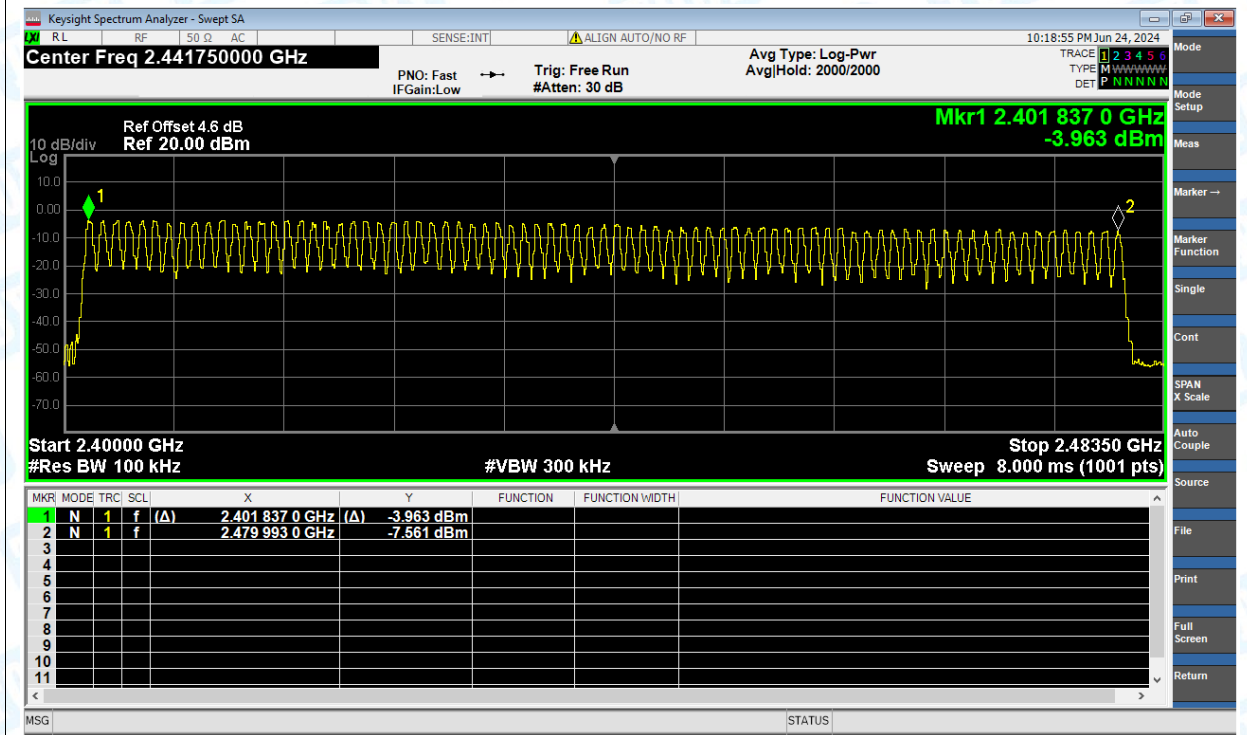


10. Number of Hopping Channel

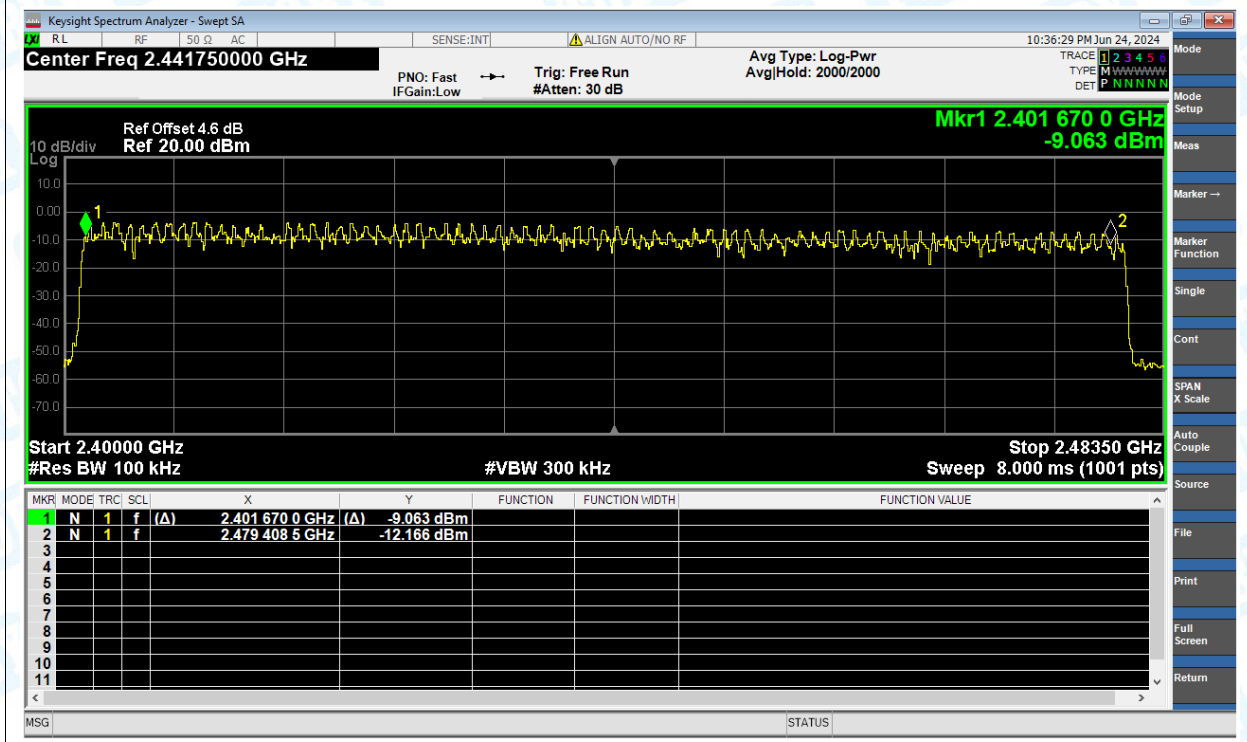
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

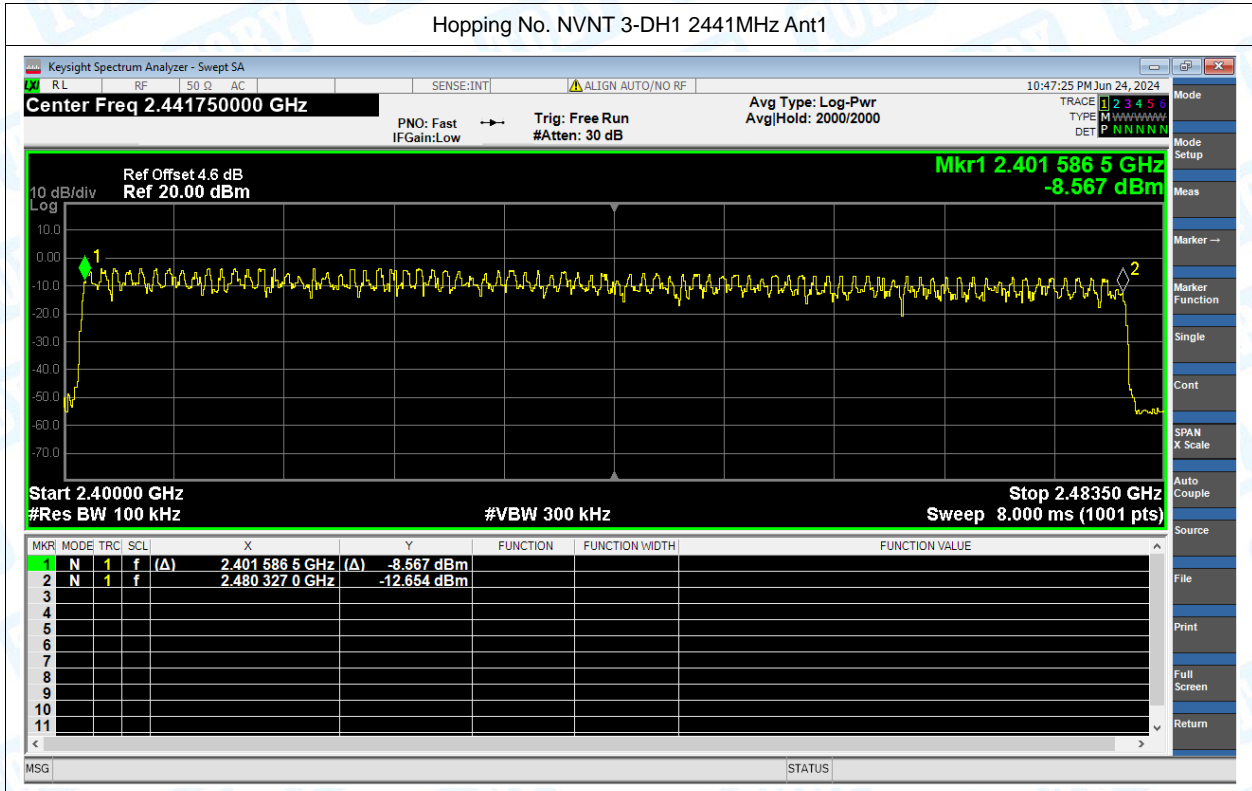
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



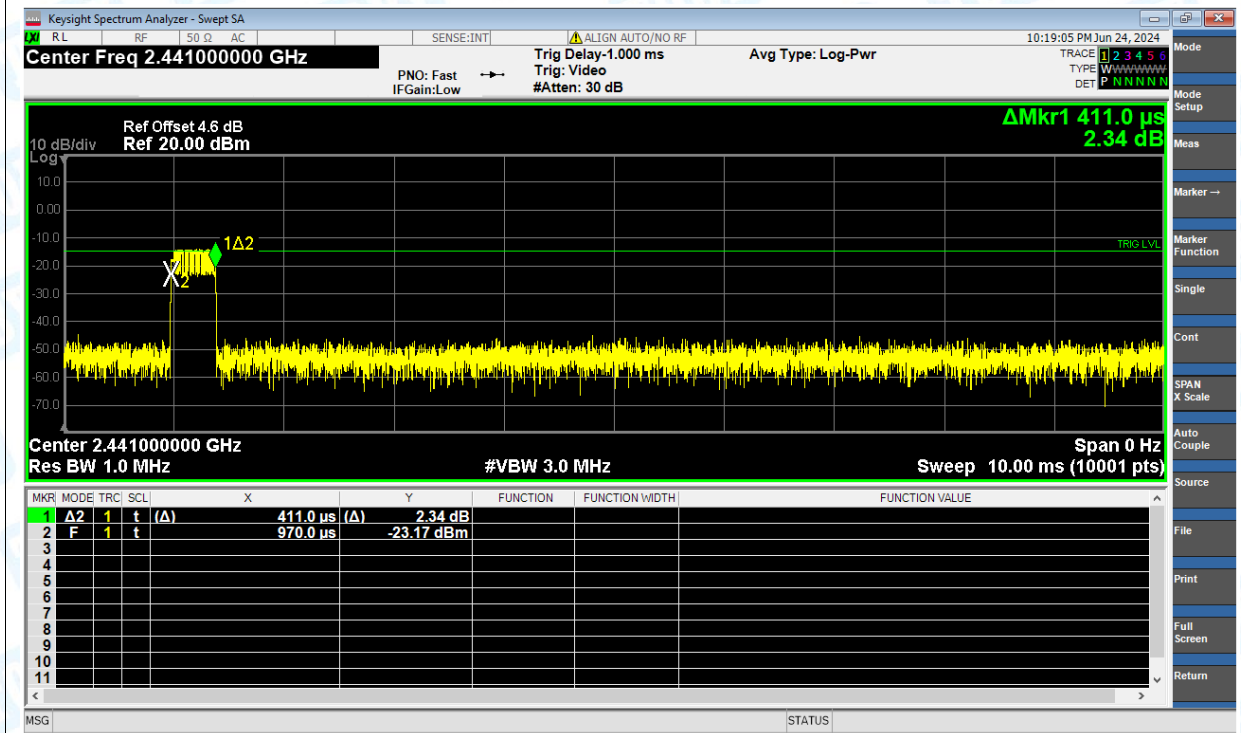


11. Dwell Time

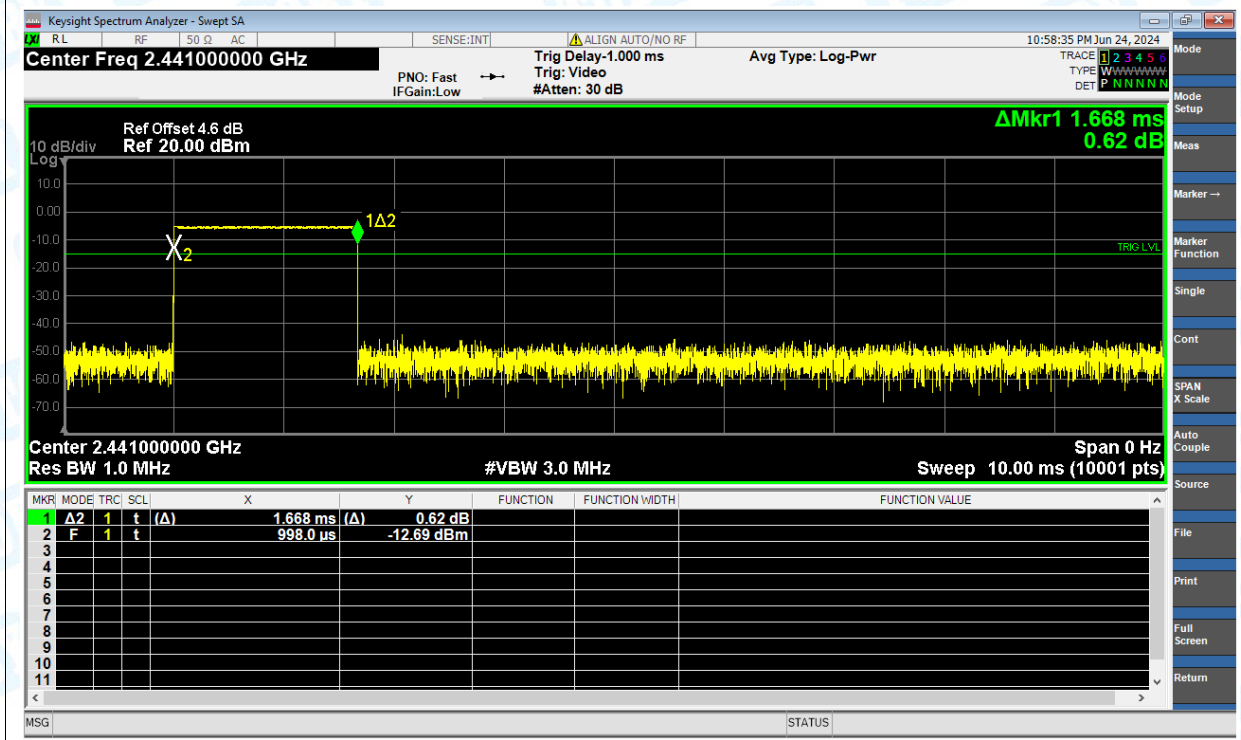
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.411	131.52	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.668	266.88	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.916	311.04	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.418	133.76	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.67	267.2	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.918	311.253	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.42	134.4	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.669	267.04	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.924	311.893	31600	400	Pass

Test Graphs

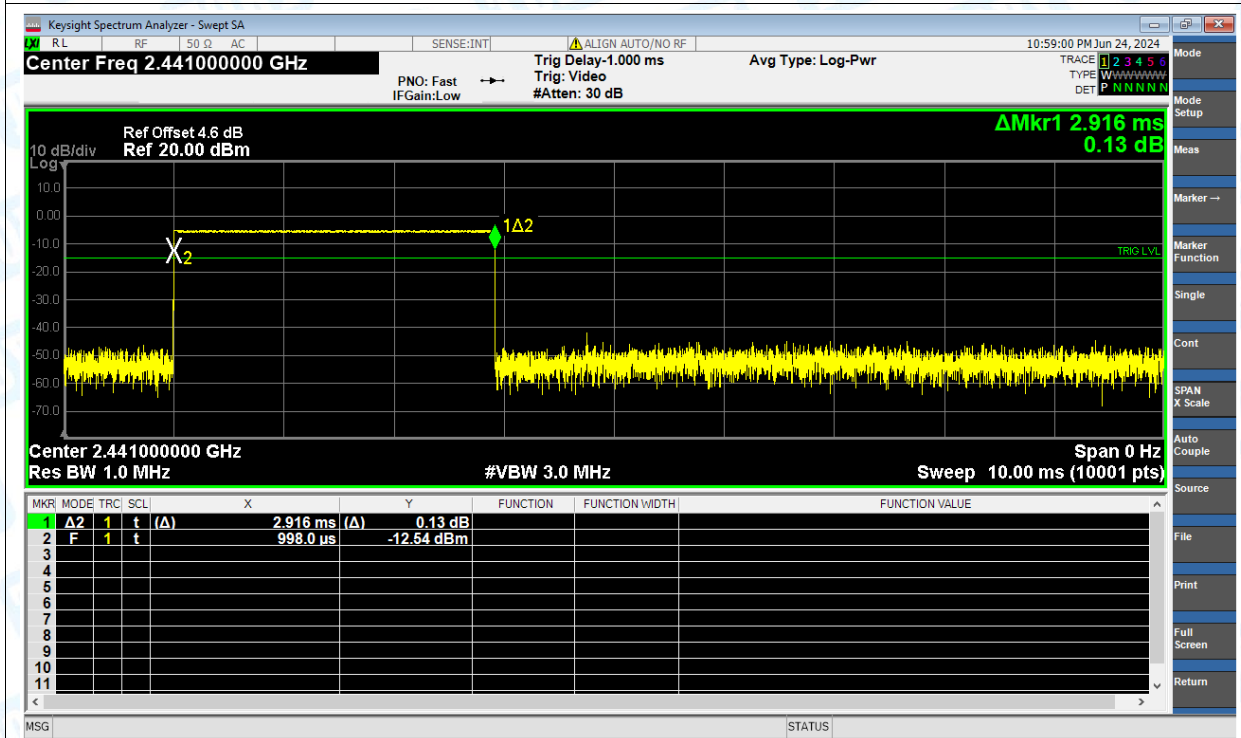
Dwell NVNT 1-DH1 2441MHz Ant1



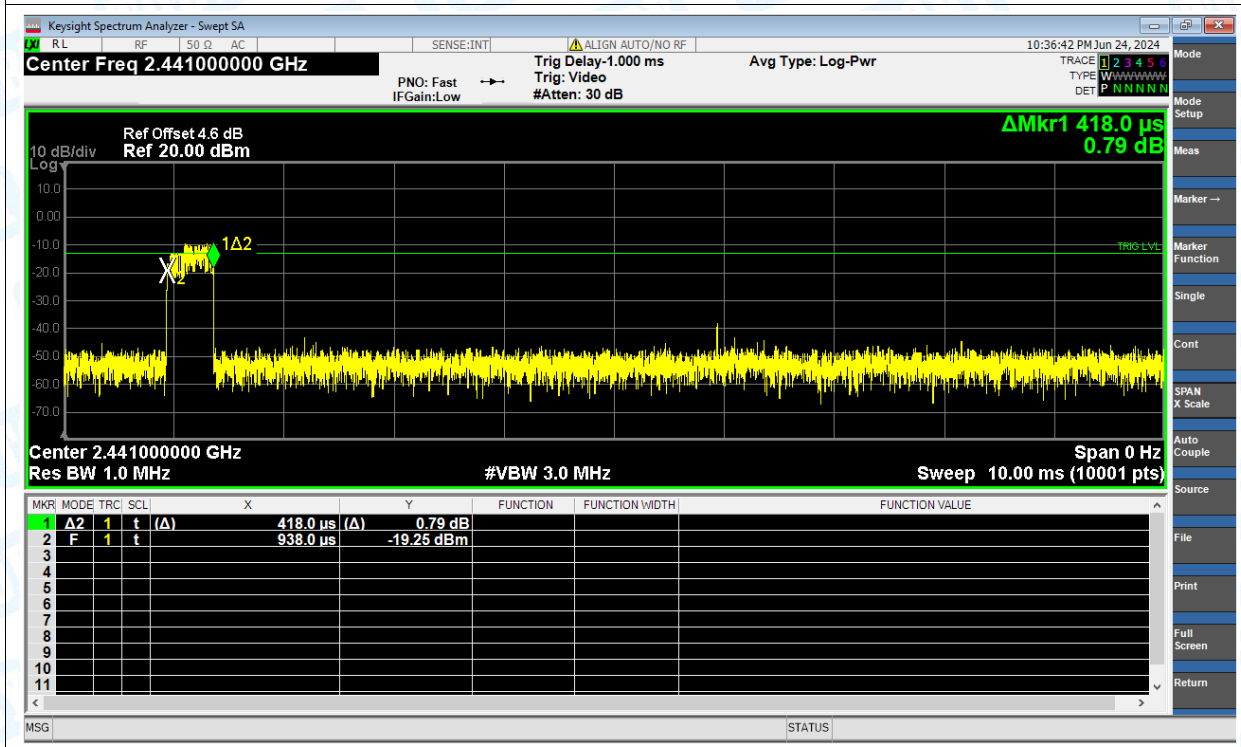
Dwell NVNT 1-DH3 2441MHz Ant1



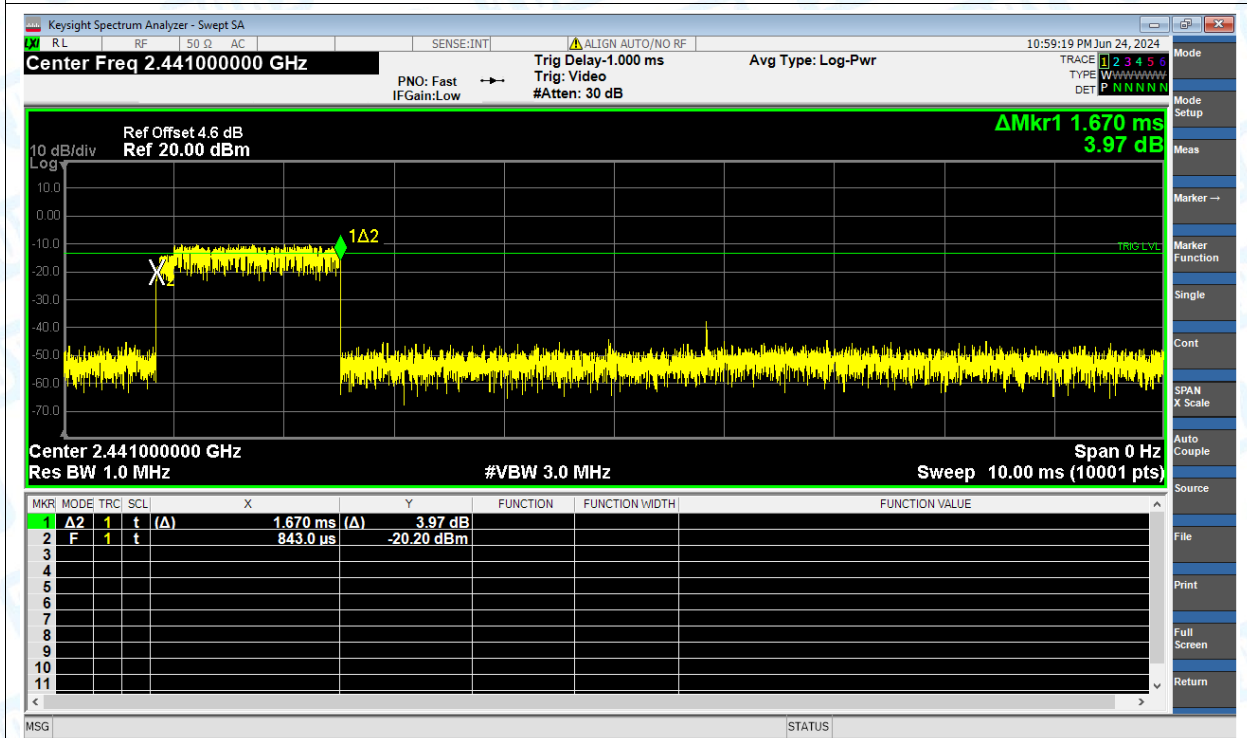
Dwell NVNT 1-DH5 2441MHz Ant1



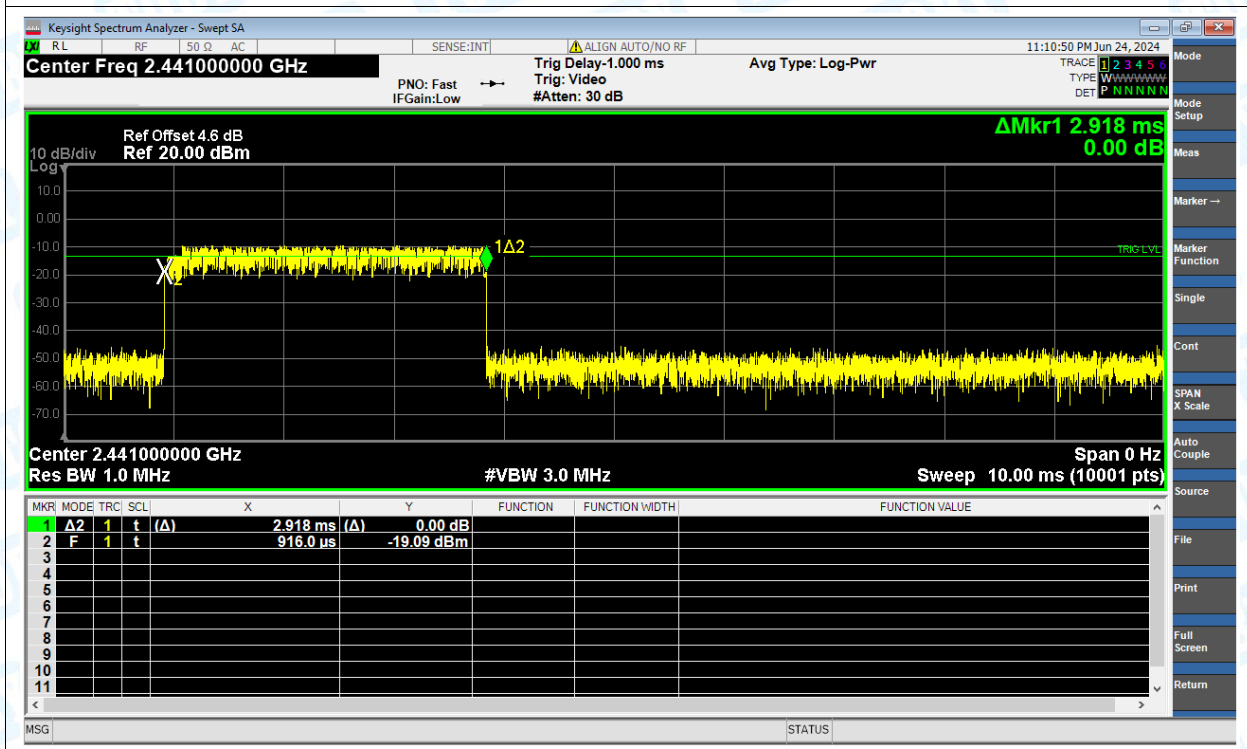
Dwell NVNT 2-DH1 2441MHz Ant1



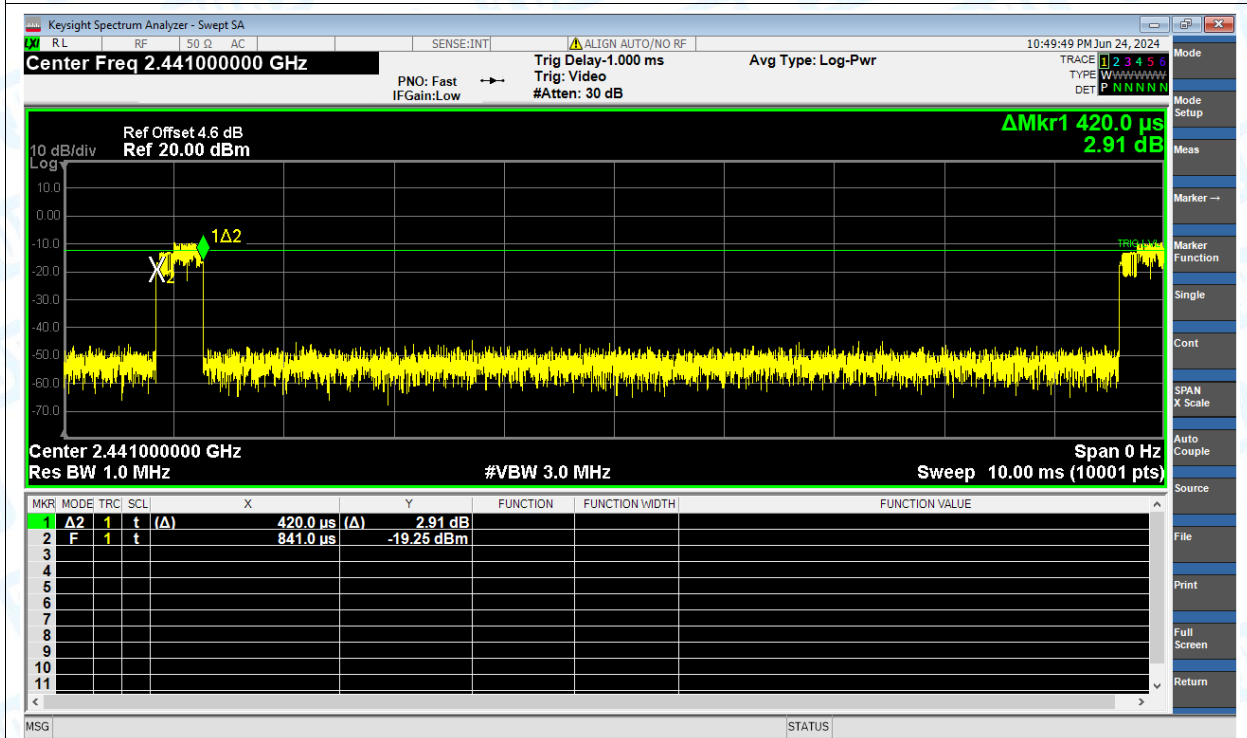
Dwell NVNT 2-DH3 2441MHz Ant1



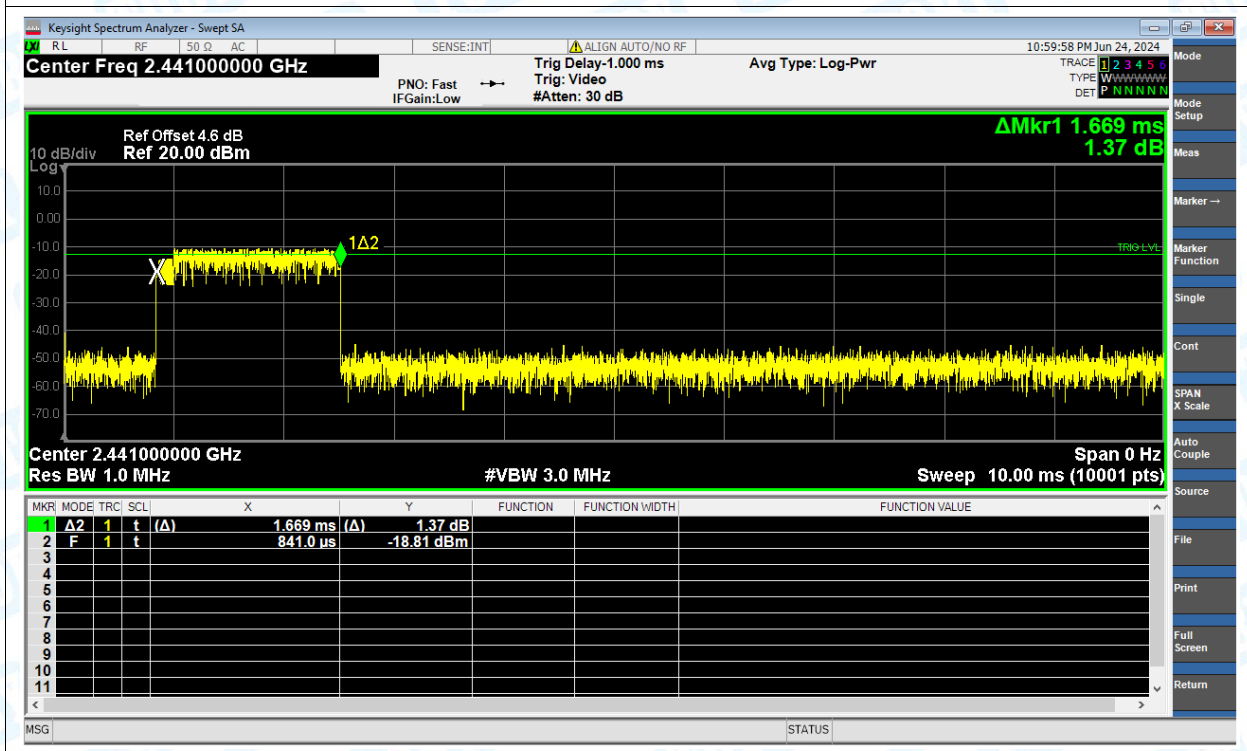
Dwell NVNT 2-DH5 2441MHz Ant1

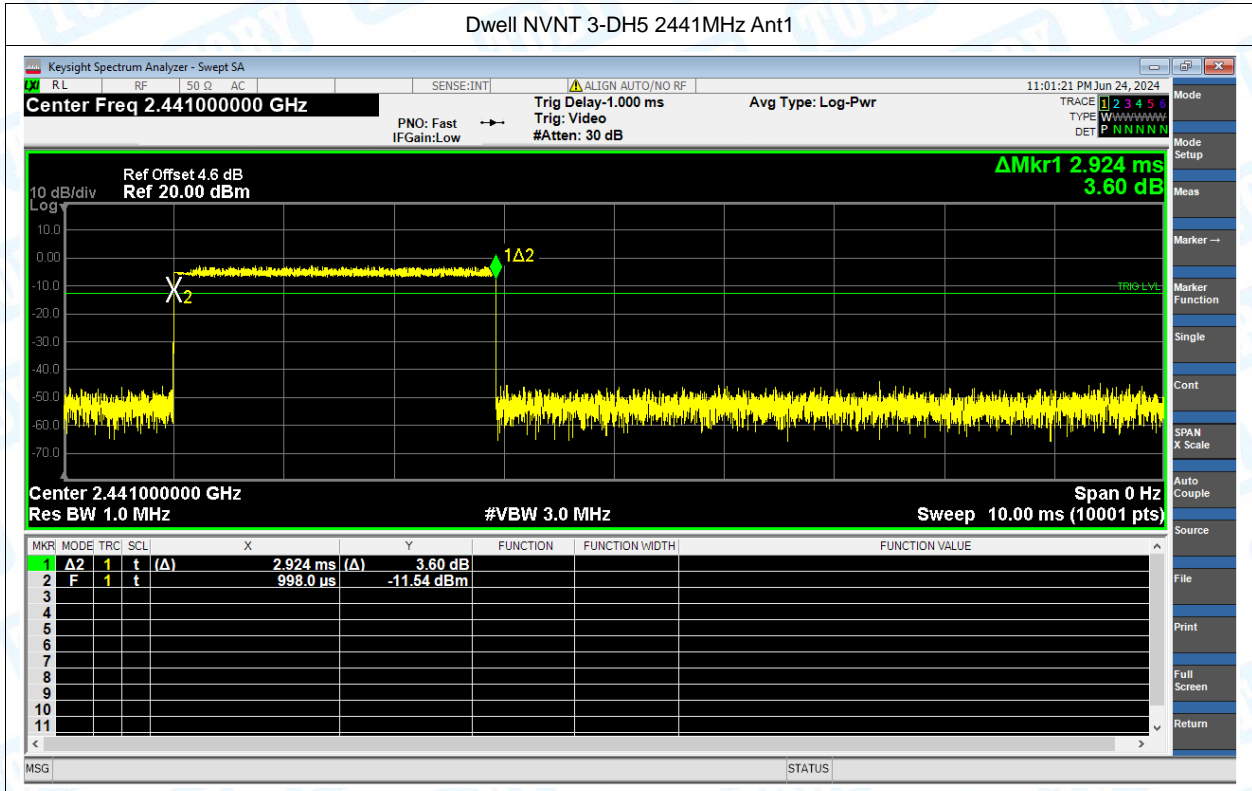


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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