

# RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
<b>Product Name:</b>	Turntable
<b>Test Model:</b>	Majority Moto Turntable
<b>Sample ID:</b>	HC-C-202408-0106-02-01
Environmental Conditions	
<b>Temperature:</b>	24.8°C
<b>Relative Humidity:</b>	52.3%
<b>Test Voltage:</b>	DC 5V
<b>Test Engineer:</b>	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202408-0106-2 The report only show the worst case data.	

## Contents

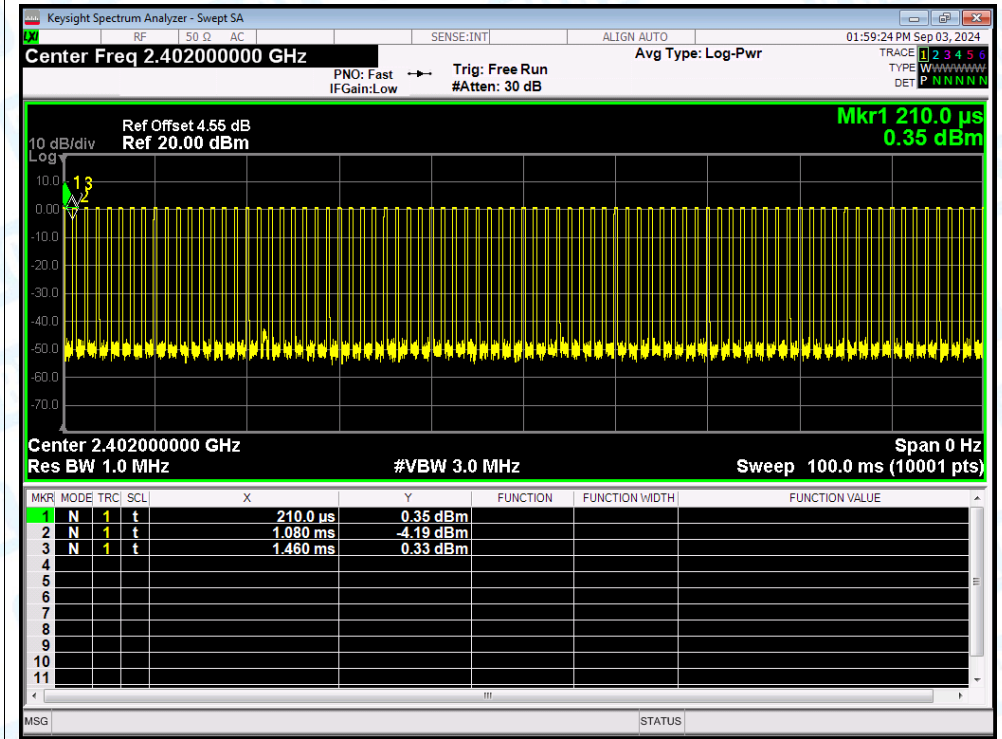
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## 1. Duty Cycle

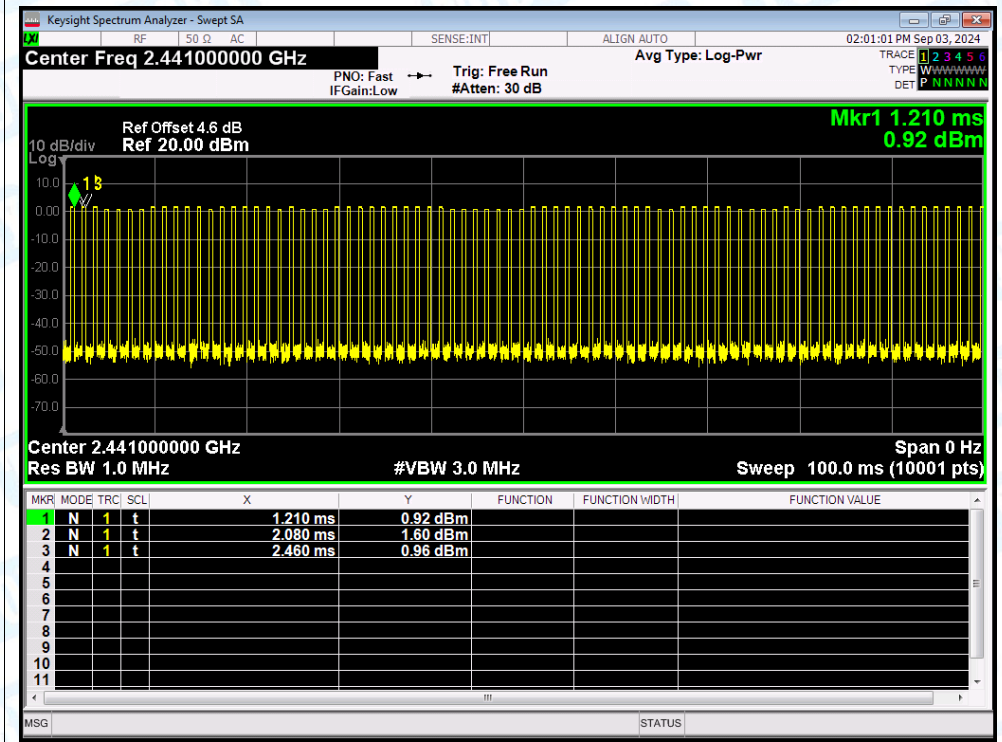
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56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

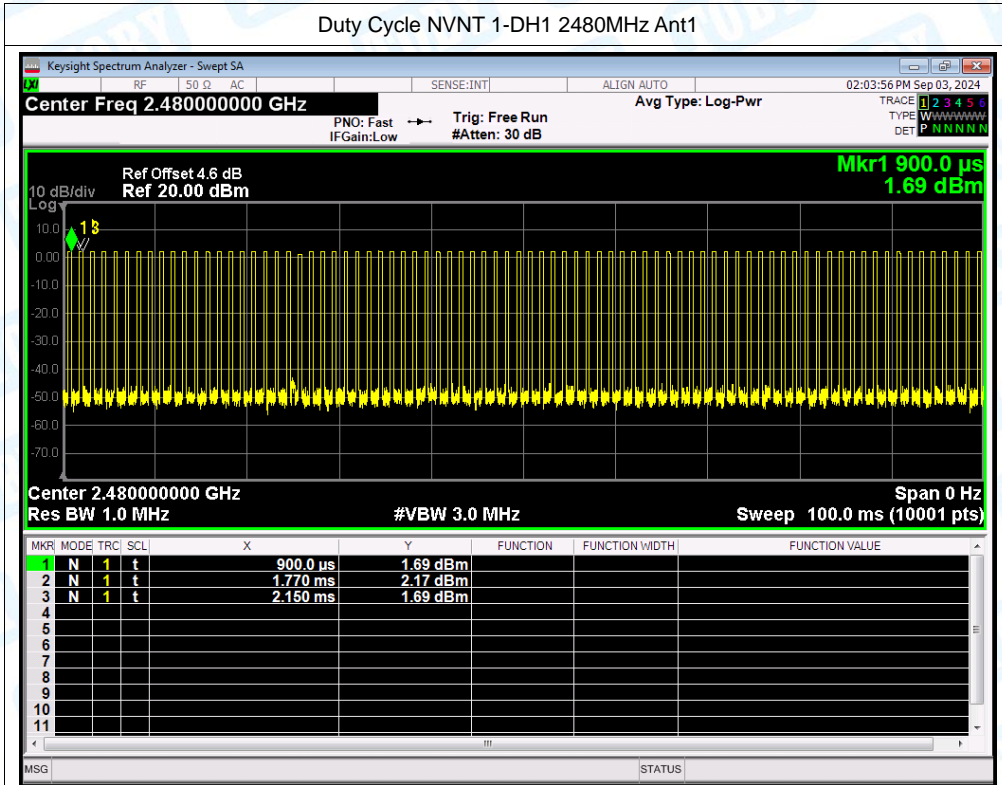
Duty Cycle NVNT 1-DH1 2402MHz Ant1



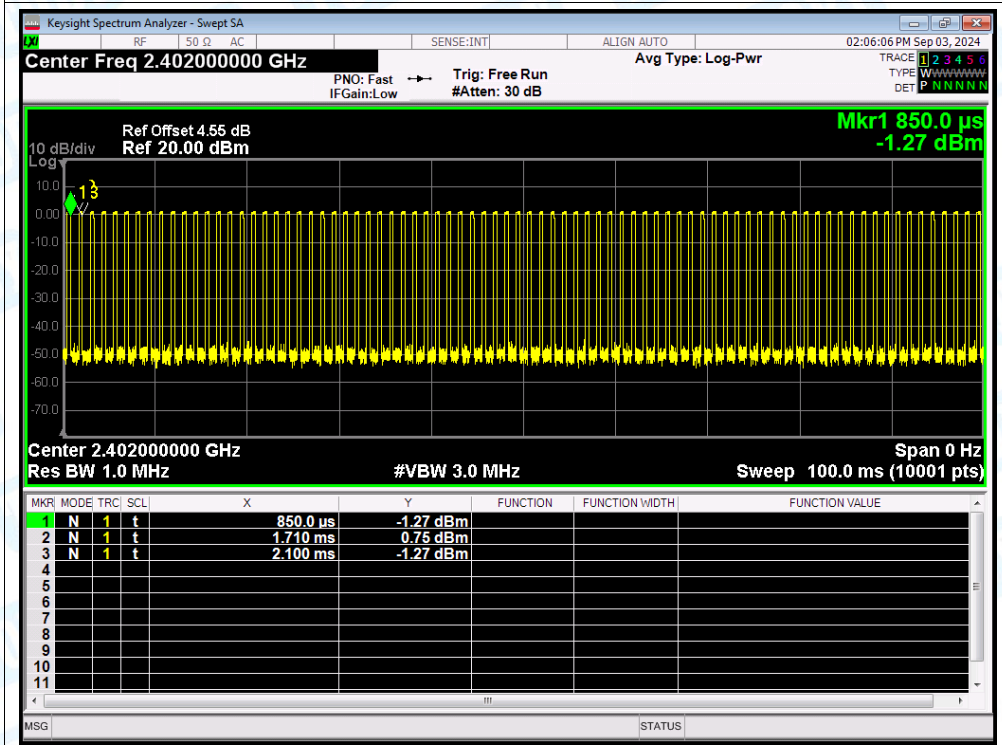
Duty Cycle NVNT 1-DH1 2441MHz Ant1



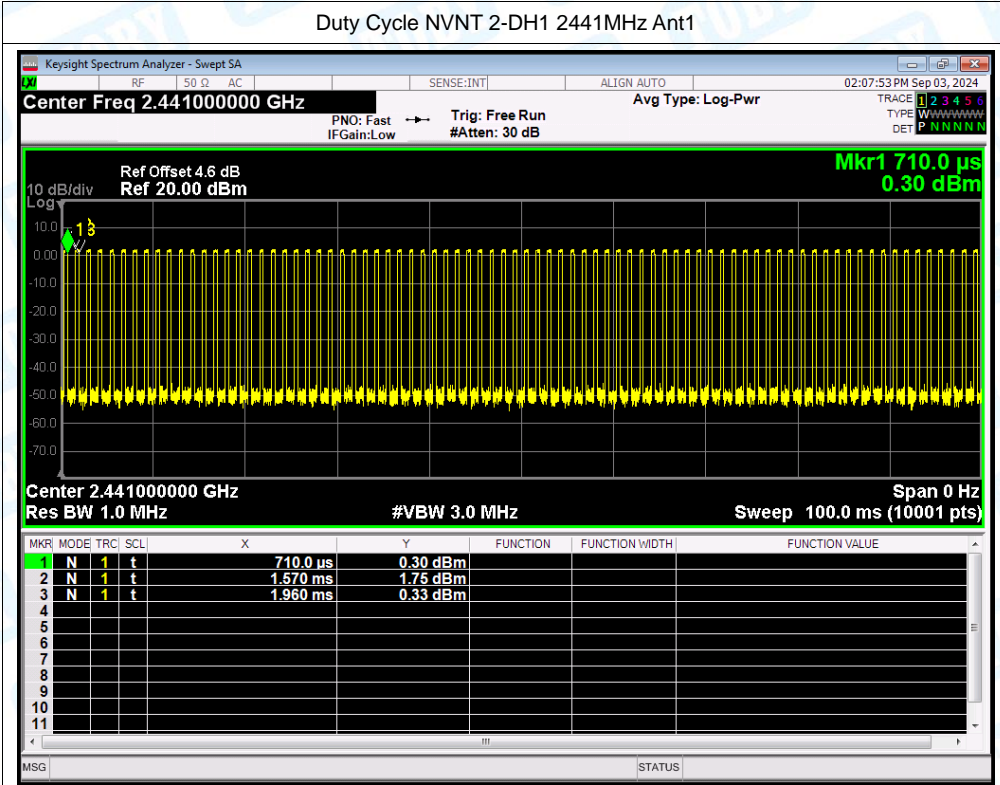
Duty Cycle NVNT 1-DH1 2480MHz Ant1



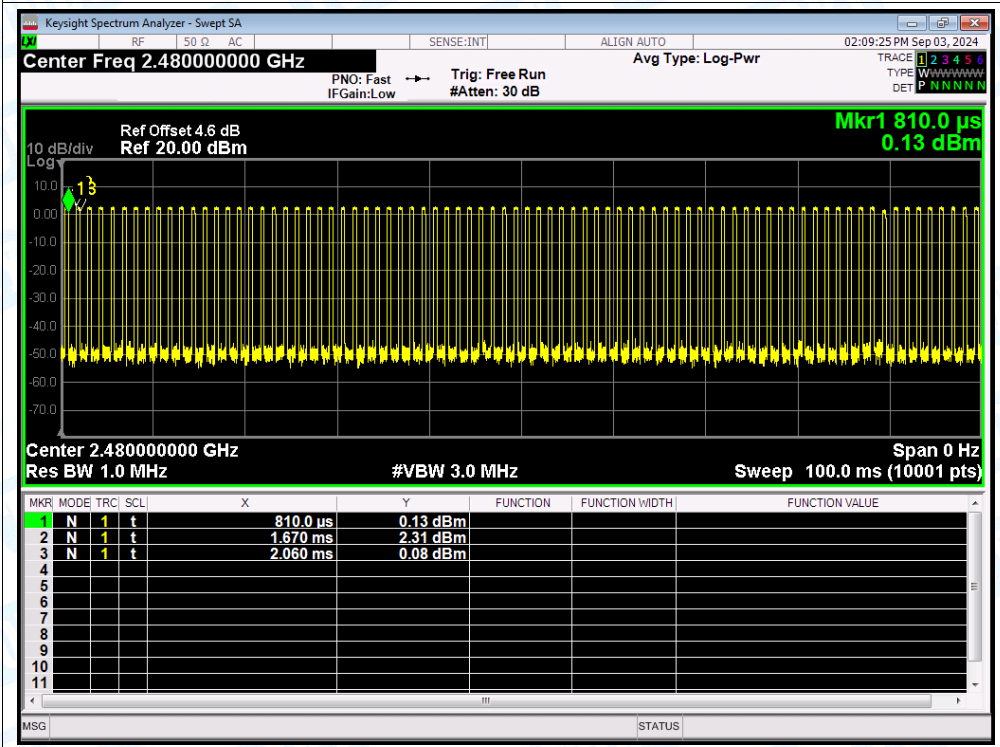
Duty Cycle NVNT 2-DH1 2402MHz Ant1



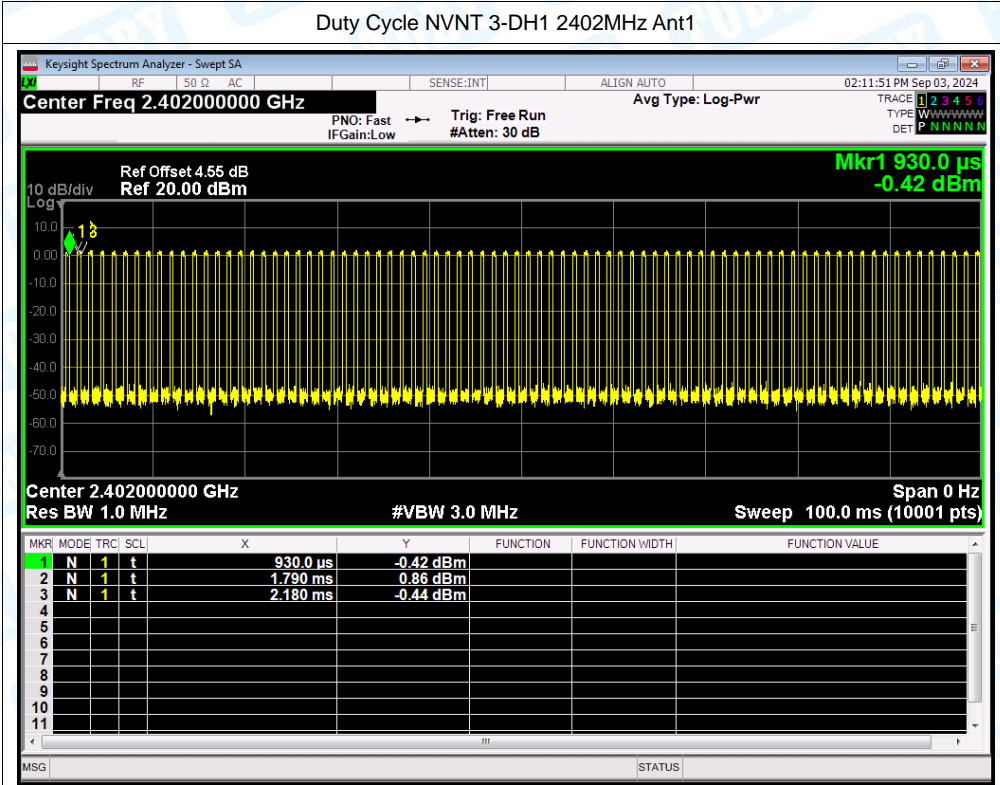
Duty Cycle NVNT 2-DH1 2441MHz Ant1



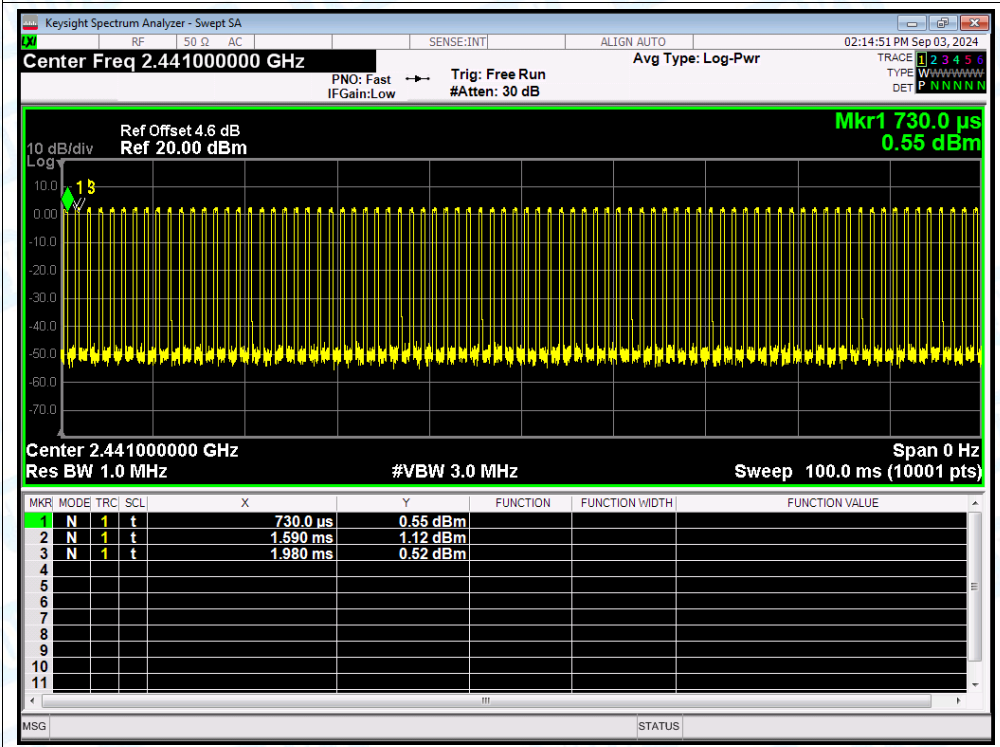
Duty Cycle NVNT 2-DH1 2480MHz Ant1

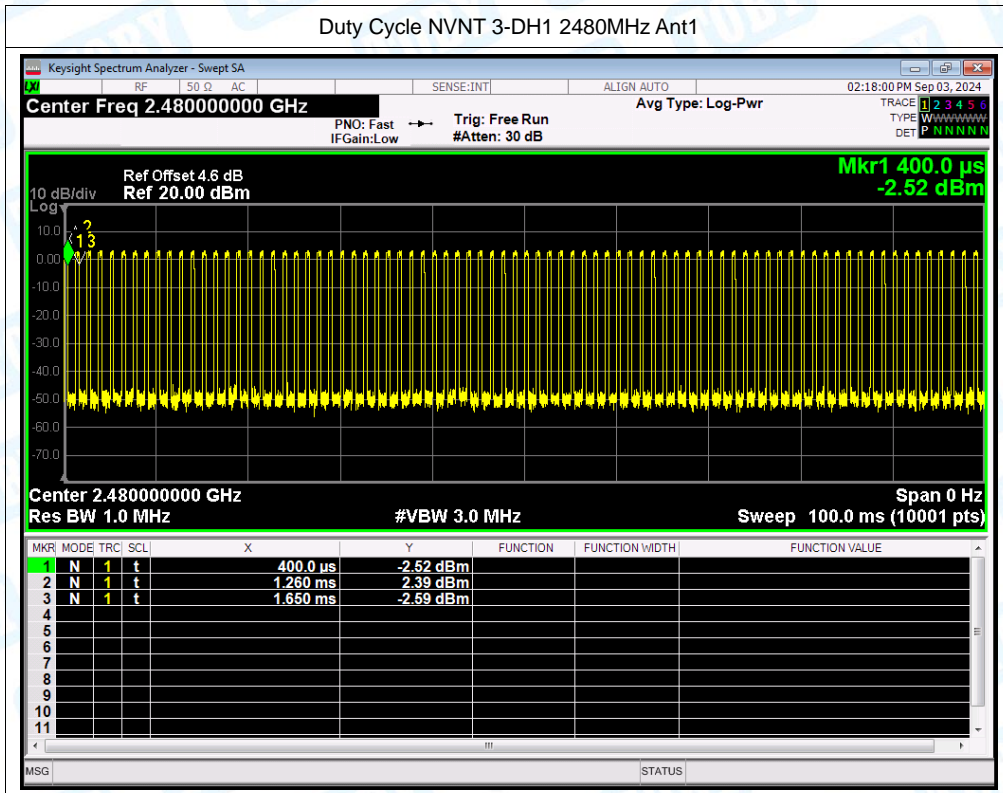


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1





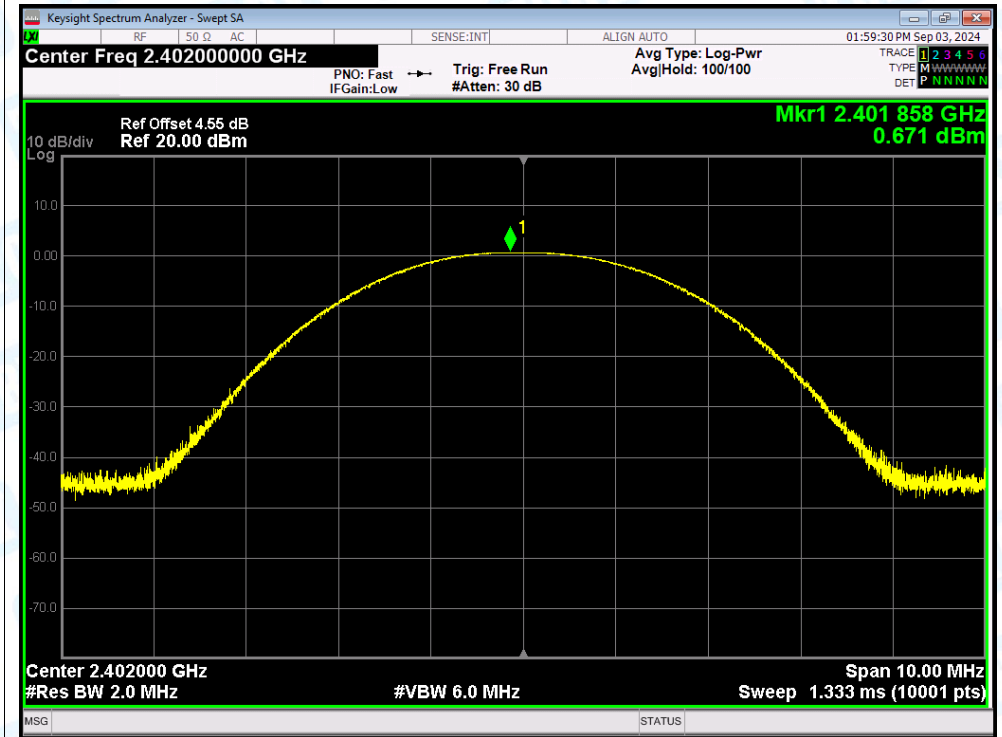


## 2. Maximum Conducted Output Power

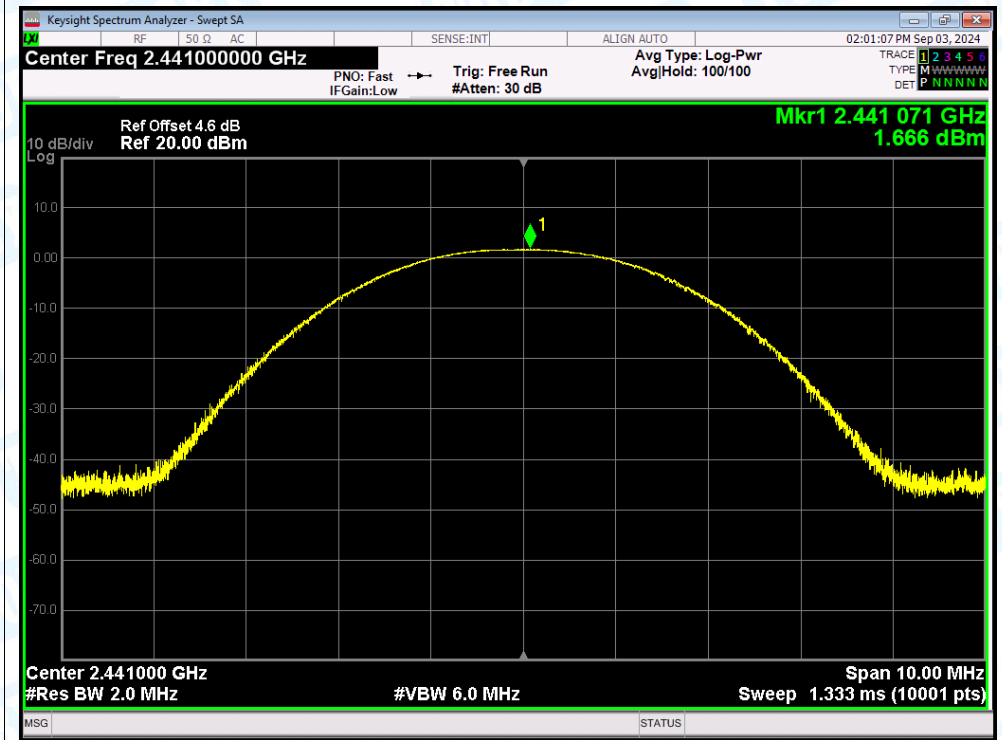
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	0.671	21	Pass
NVNT	1-DH1	2441	Ant1	1.666	21	Pass
NVNT	1-DH1	2480	Ant1	2.246	21	Pass
NVNT	2-DH1	2402	Ant1	1.591	21	Pass
NVNT	2-DH1	2441	Ant1	2.512	21	Pass
NVNT	2-DH1	2480	Ant1	3.017	21	Pass
NVNT	3-DH1	2402	Ant1	2.037	21	Pass
NVNT	3-DH1	2441	Ant1	2.92	21	Pass
NVNT	3-DH1	2480	Ant1	3.389	21	Pass

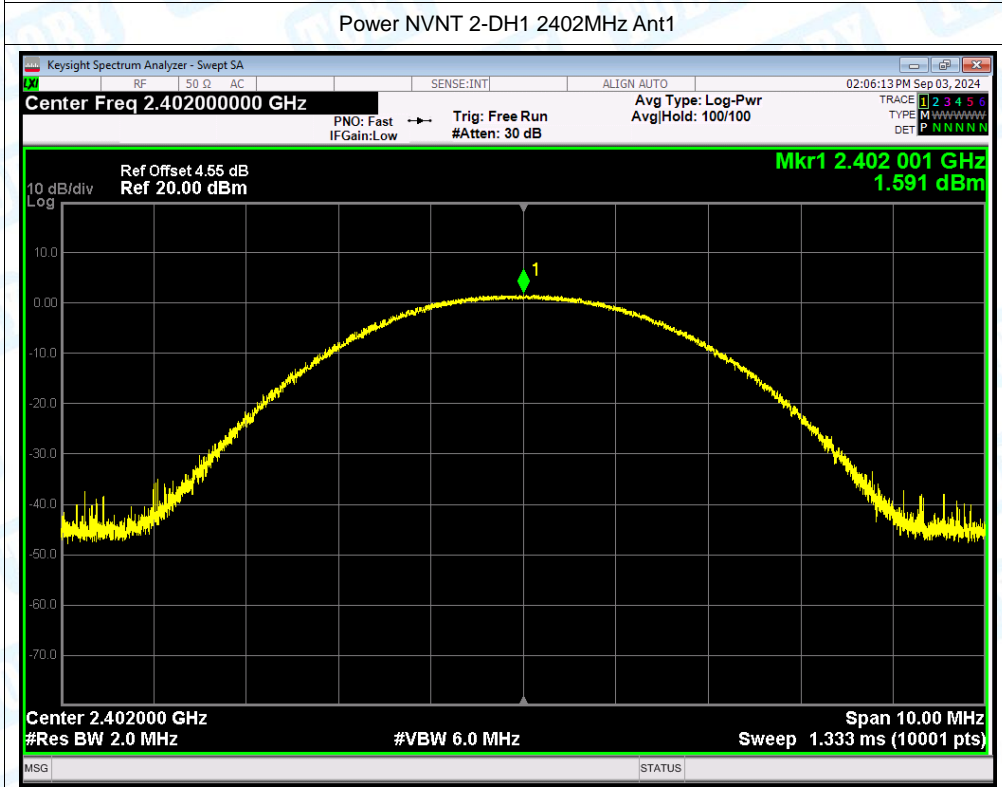
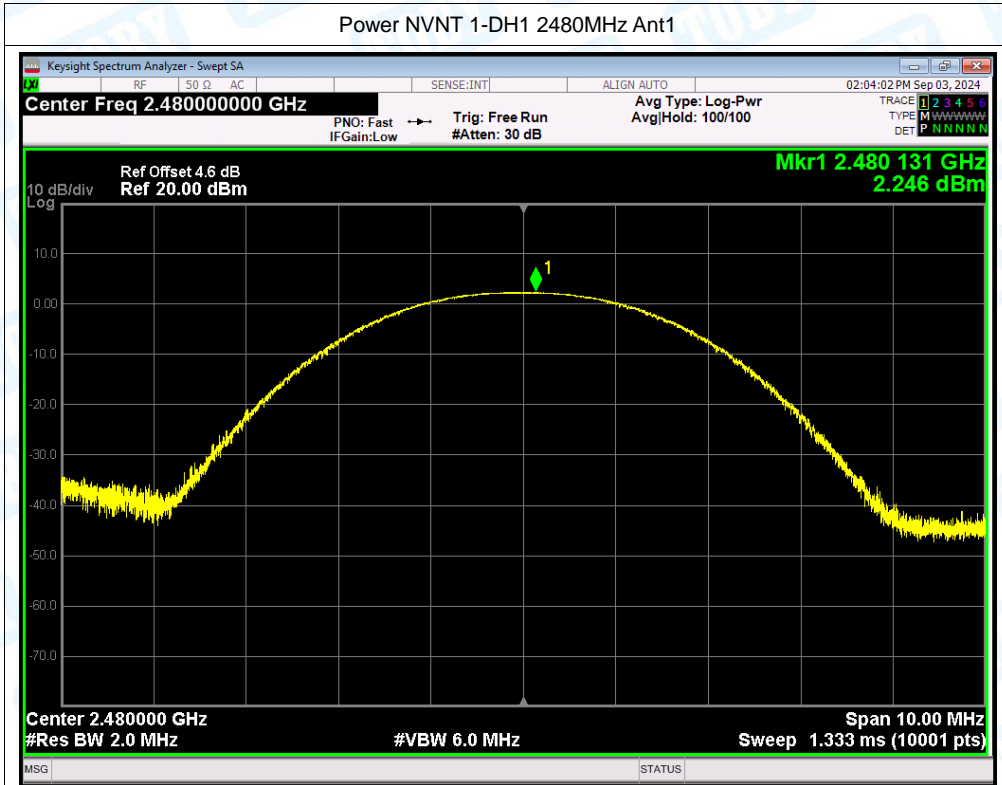
Test Graphs

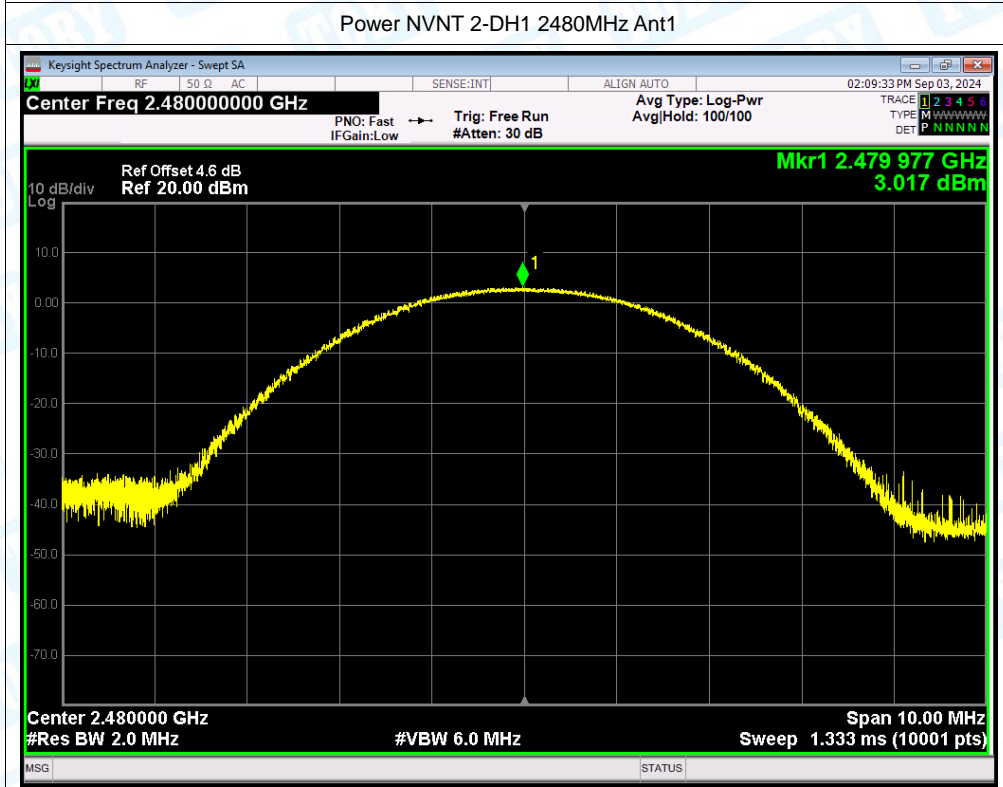
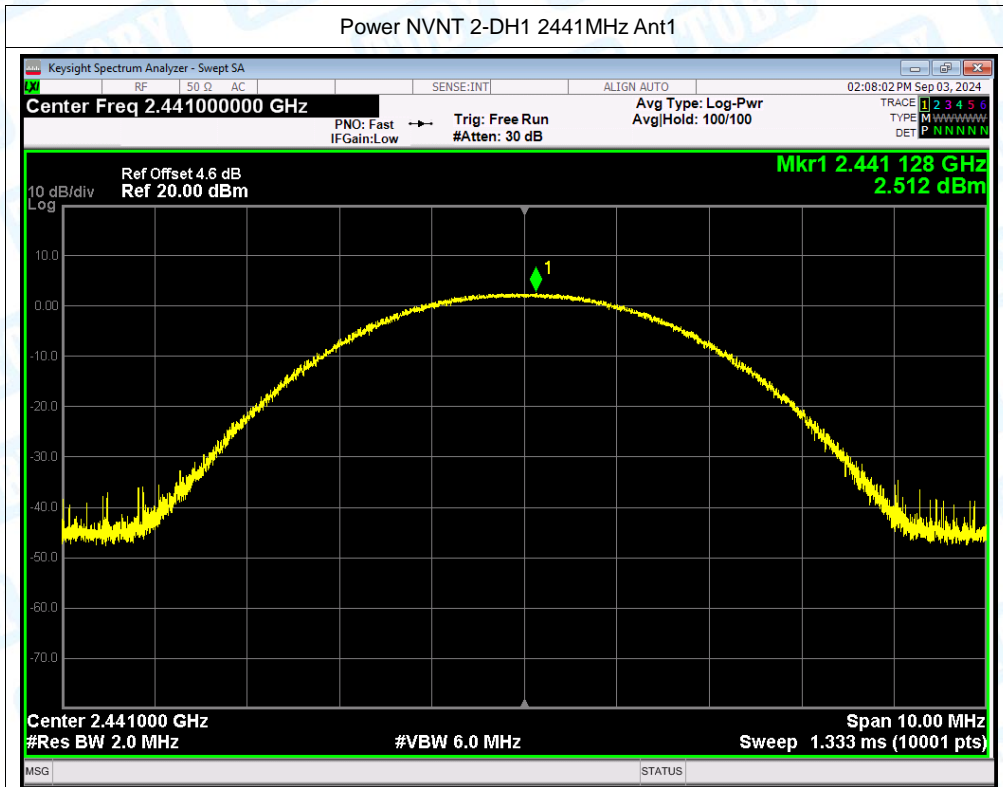
Power NVNT 1-DH1 2402MHz Ant1



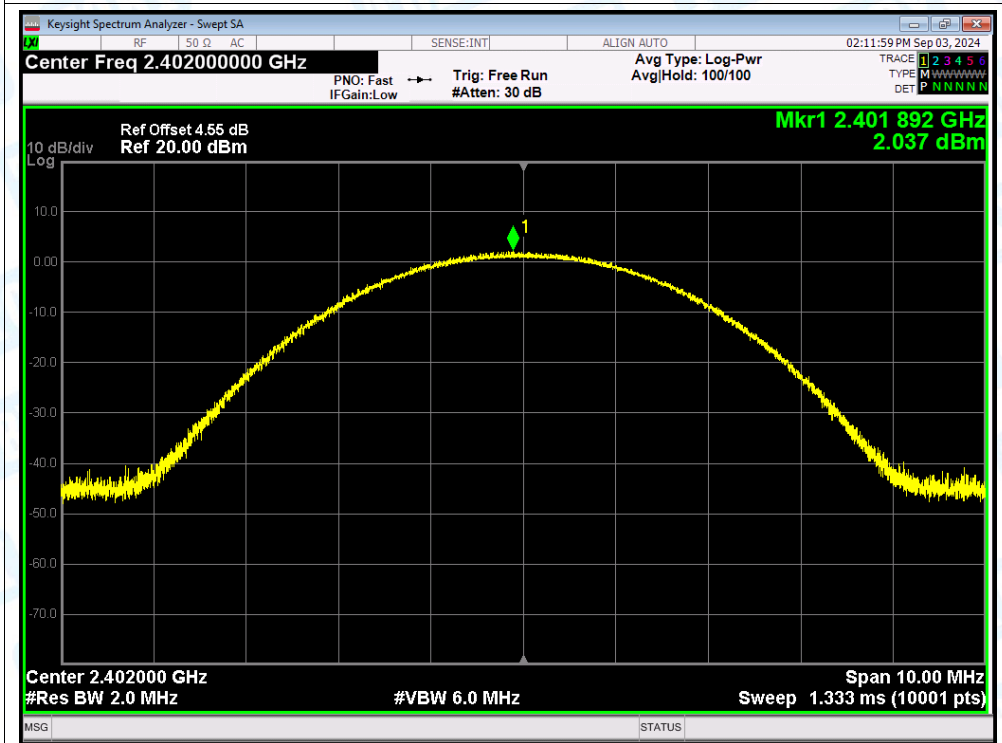
Power NVNT 1-DH1 2441MHz Ant1



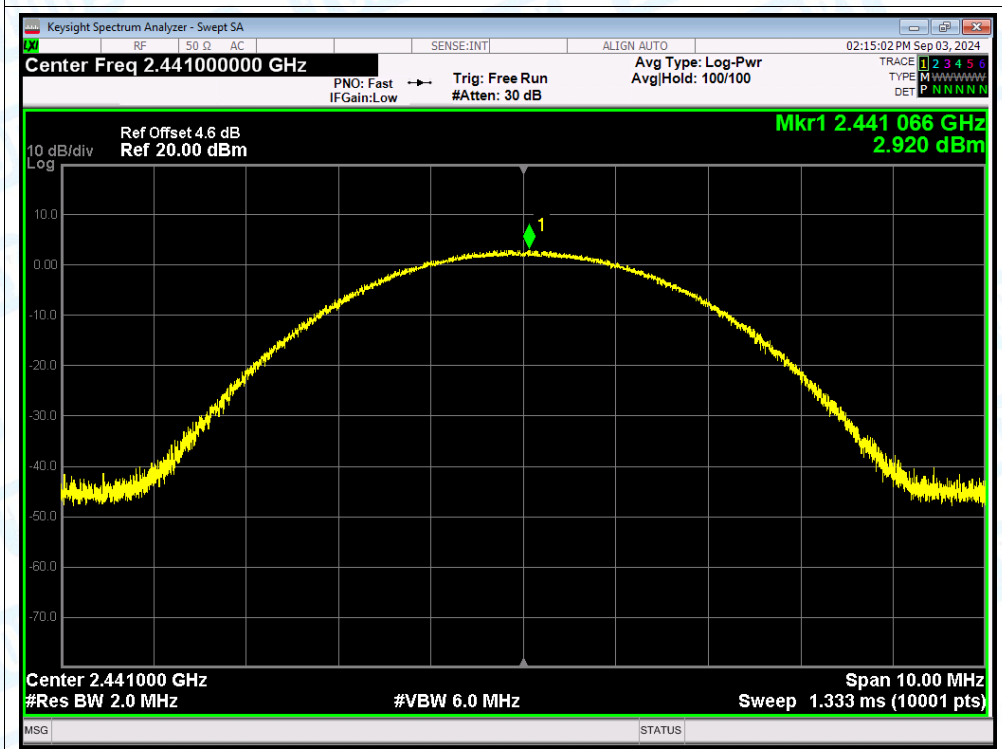


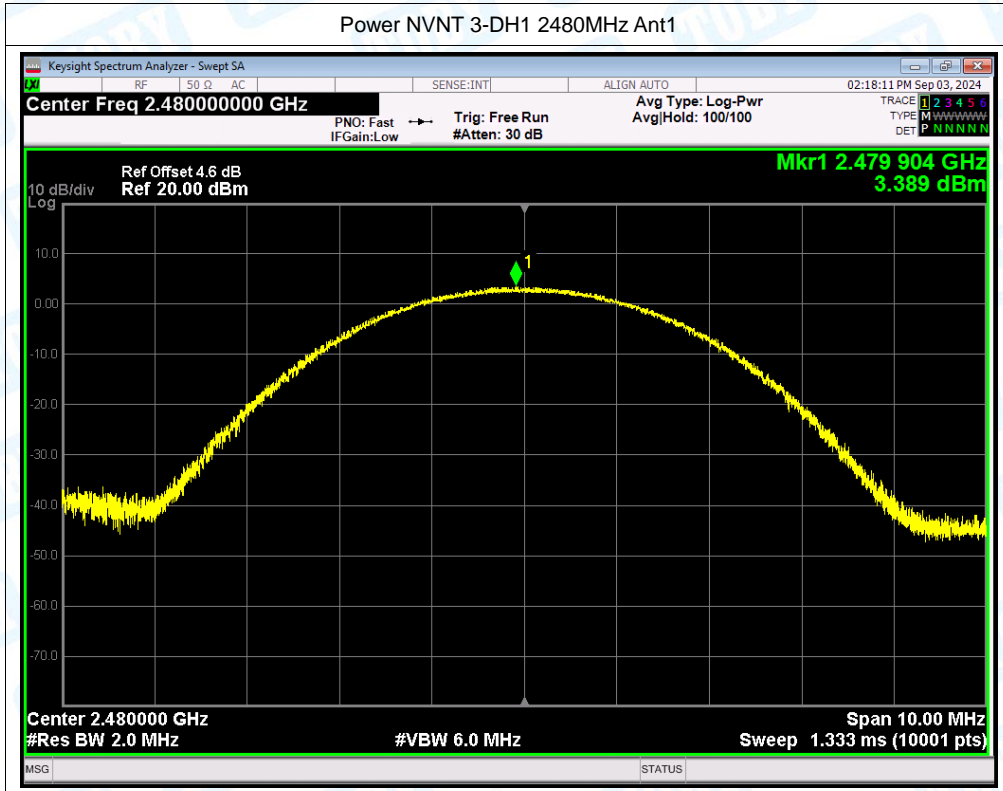


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



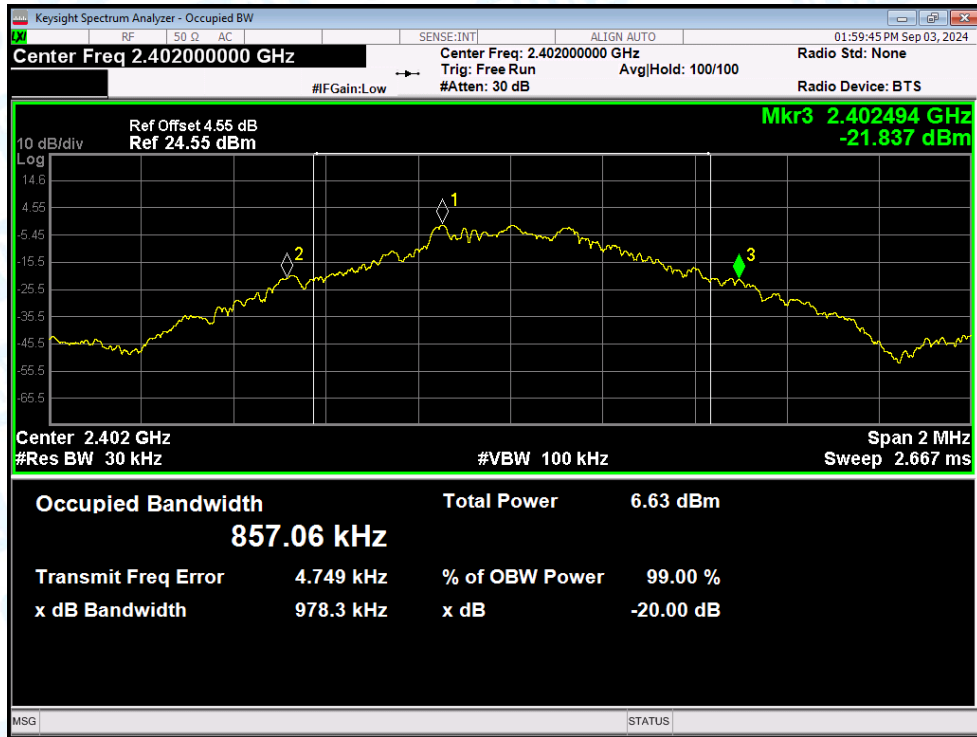


### 3. -20dB Bandwidth

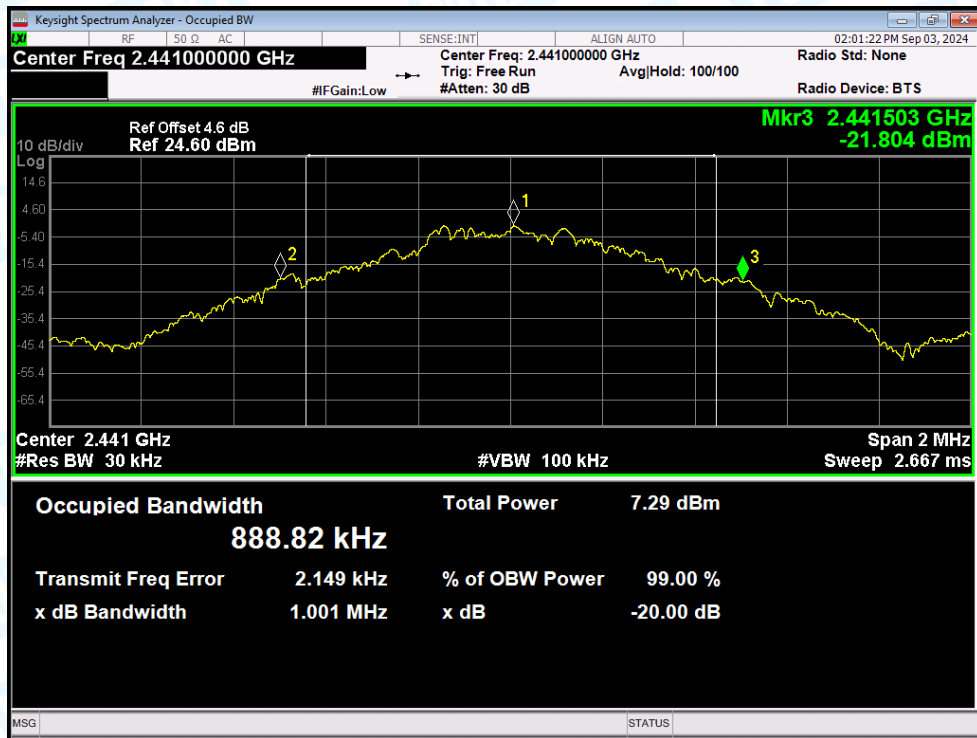
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.98	0	Pass
NVNT	1-DH1	2441	Ant1	1	0	Pass
NVNT	1-DH1	2480	Ant1	1.02	0	Pass
NVNT	2-DH1	2402	Ant1	1.27	0	Pass
NVNT	2-DH1	2441	Ant1	1.28	0	Pass
NVNT	2-DH1	2480	Ant1	1.29	0	Pass
NVNT	3-DH1	2402	Ant1	1.23	0	Pass
NVNT	3-DH1	2441	Ant1	1.26	0	Pass
NVNT	3-DH1	2480	Ant1	1.21	0	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

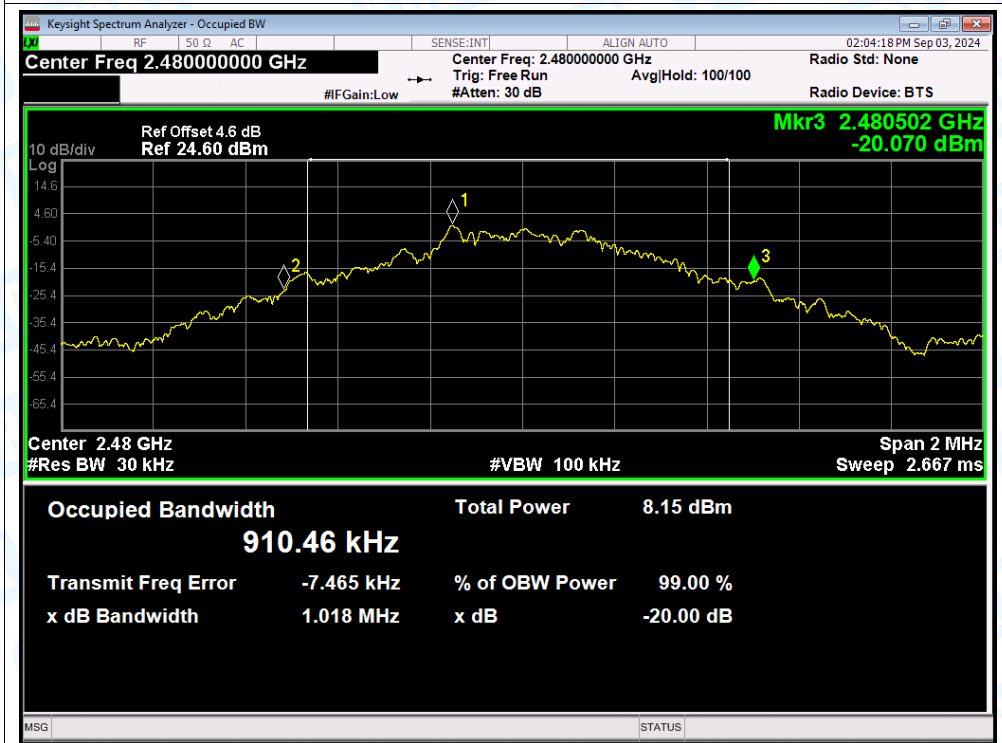


-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

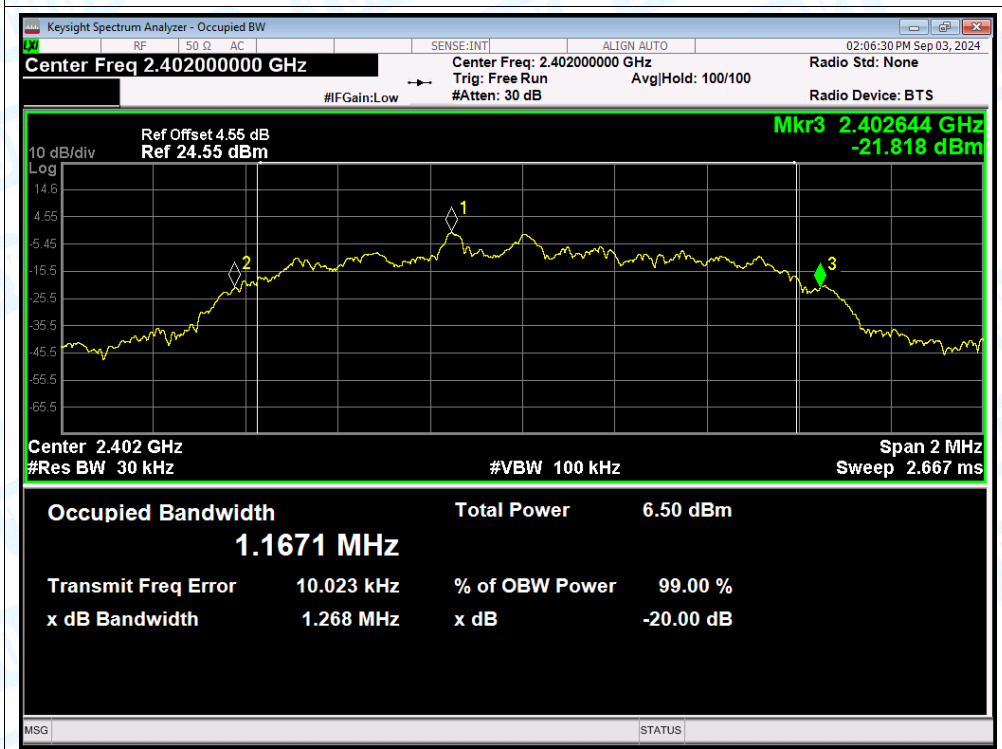




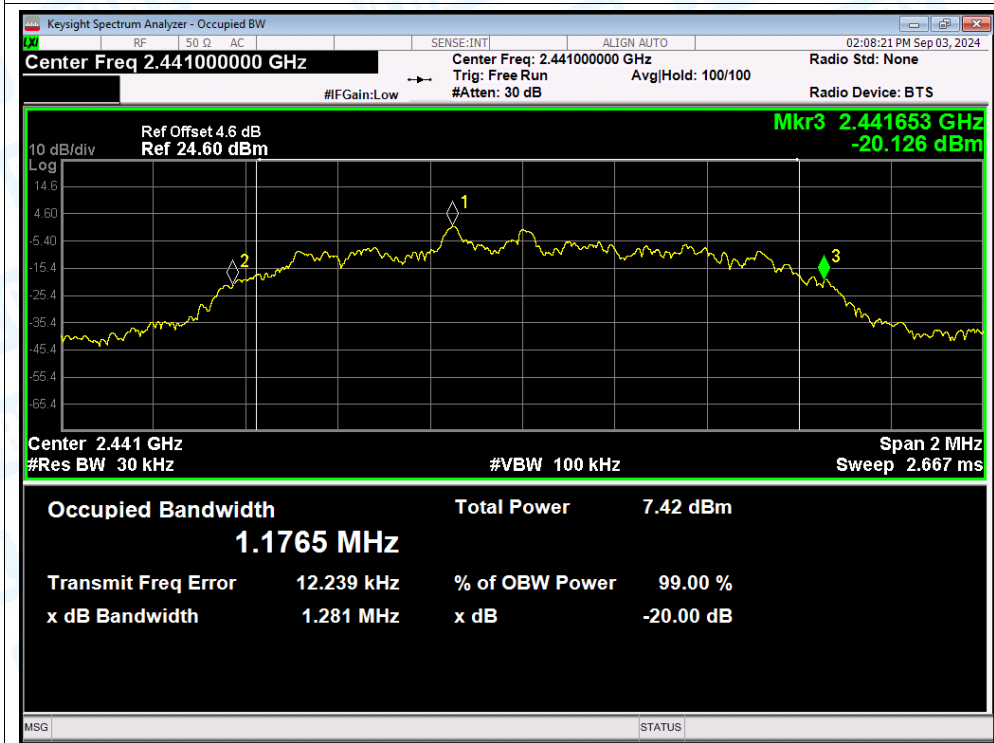
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



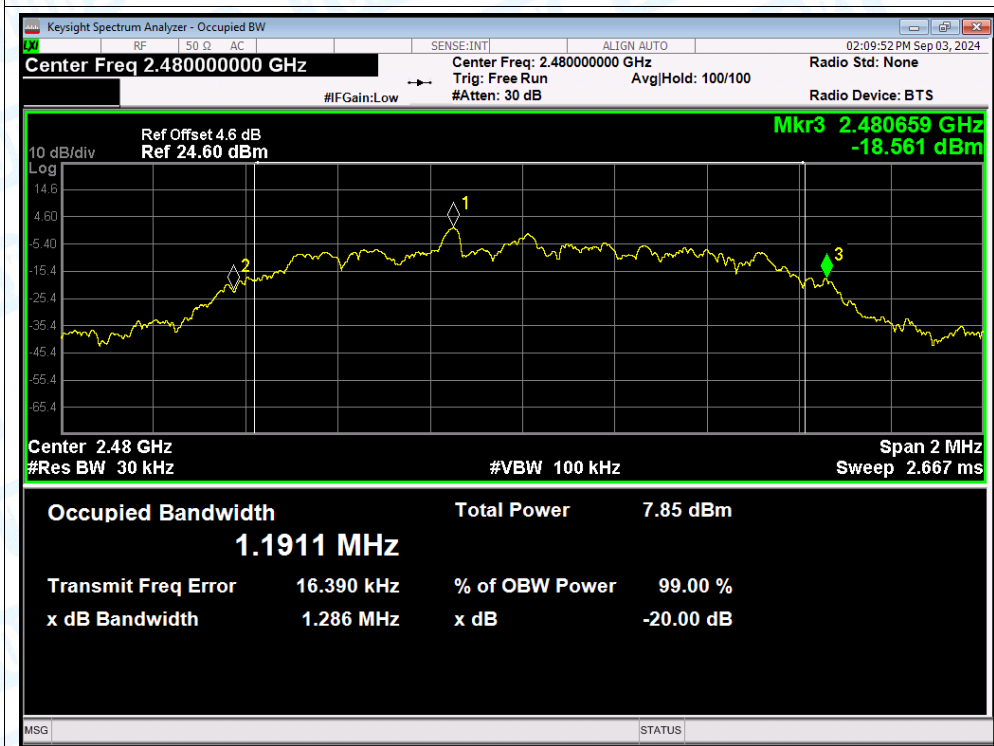
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



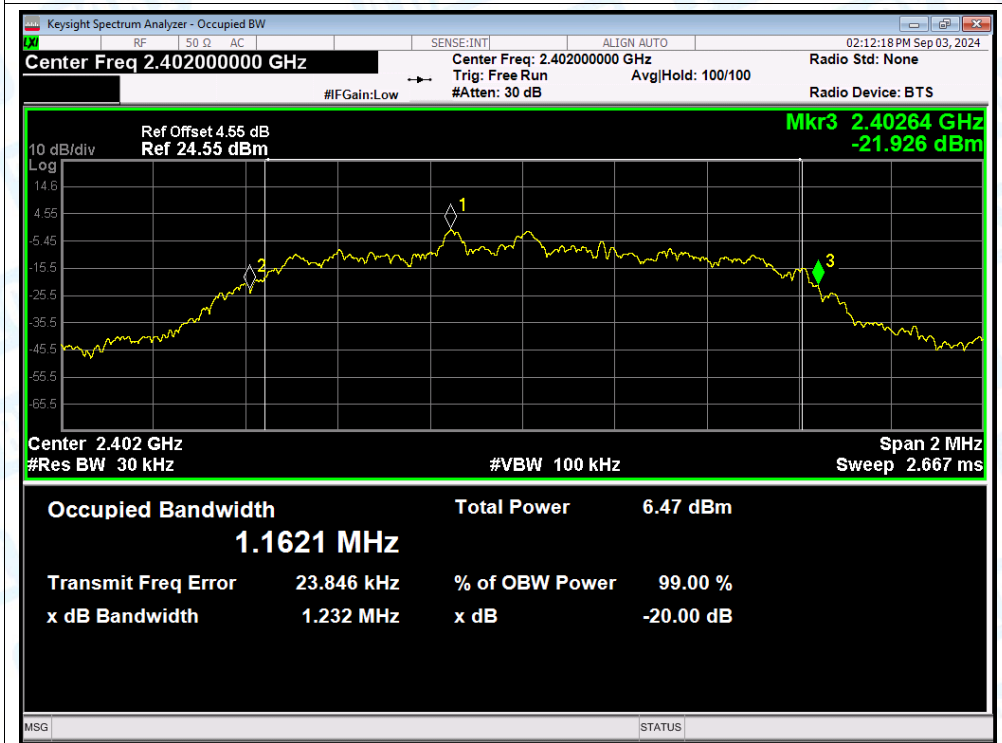
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



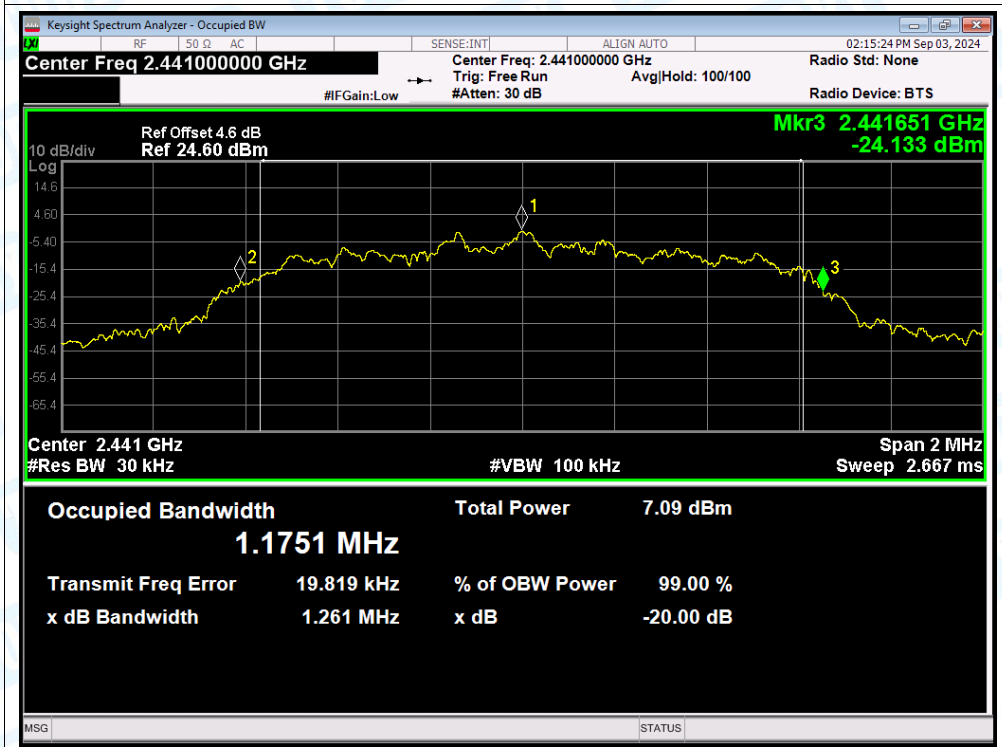
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

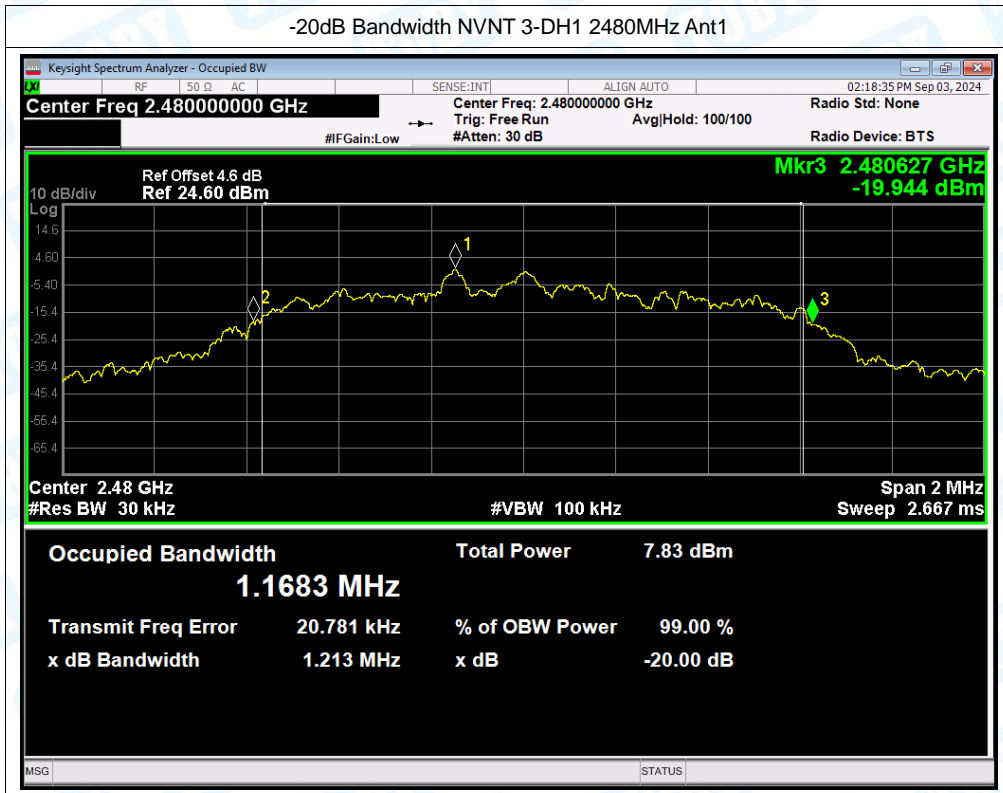


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



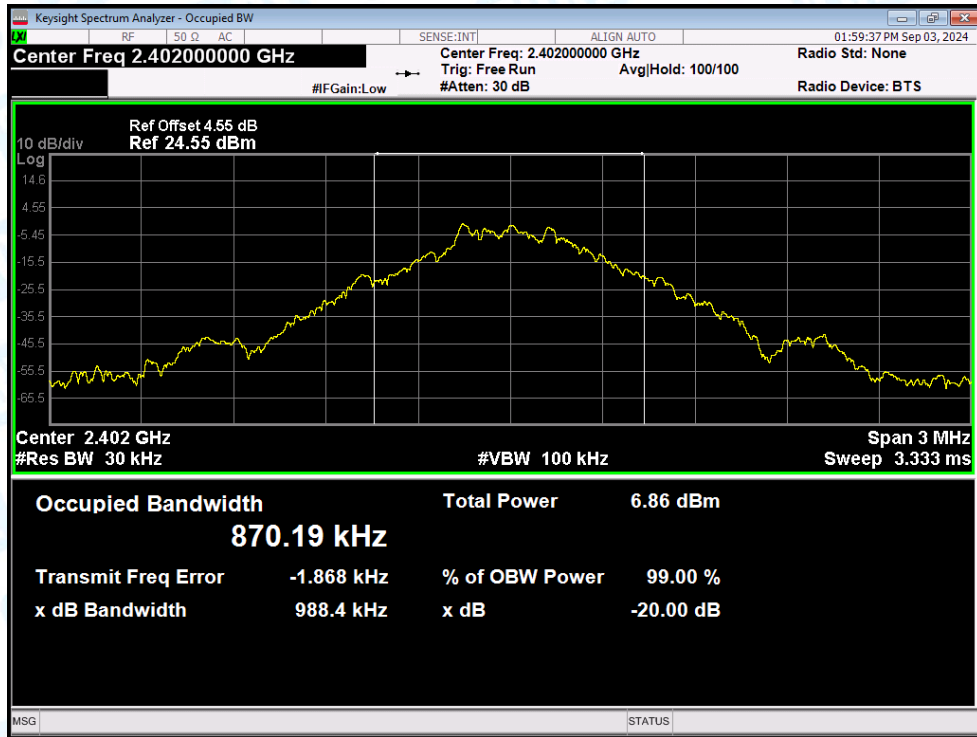


## 4. Occupied Channel Bandwidth

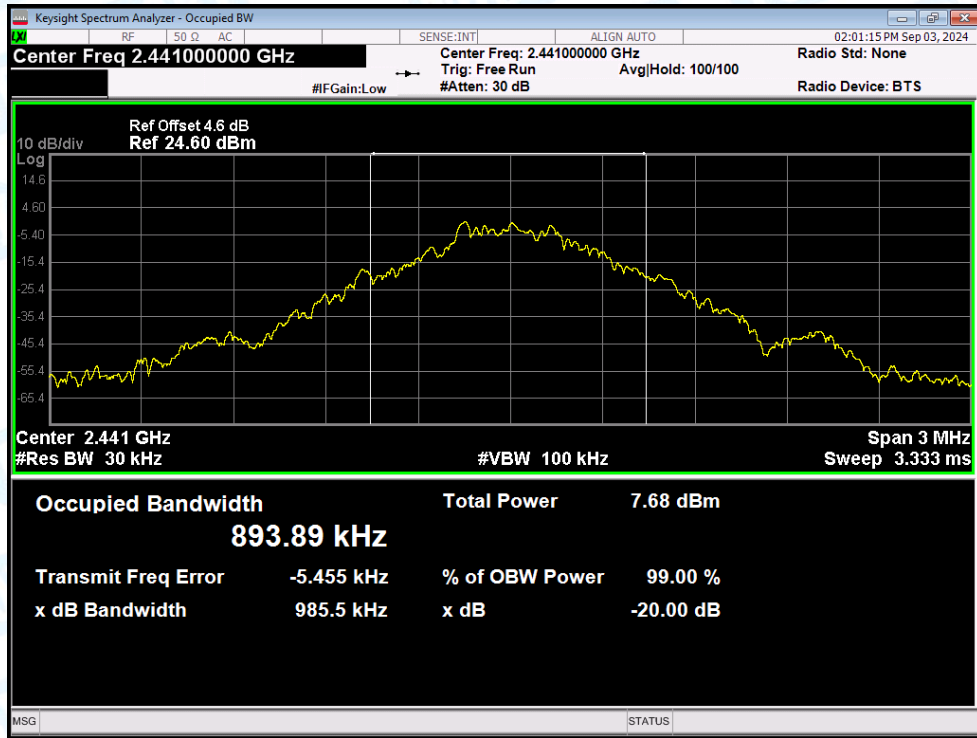
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.87
NVNT	1-DH1	2441	Ant1	0.894
NVNT	1-DH1	2480	Ant1	0.917
NVNT	2-DH1	2402	Ant1	1.165
NVNT	2-DH1	2441	Ant1	1.176
NVNT	2-DH1	2480	Ant1	1.214
NVNT	3-DH1	2402	Ant1	1.159
NVNT	3-DH1	2441	Ant1	1.172
NVNT	3-DH1	2480	Ant1	1.181

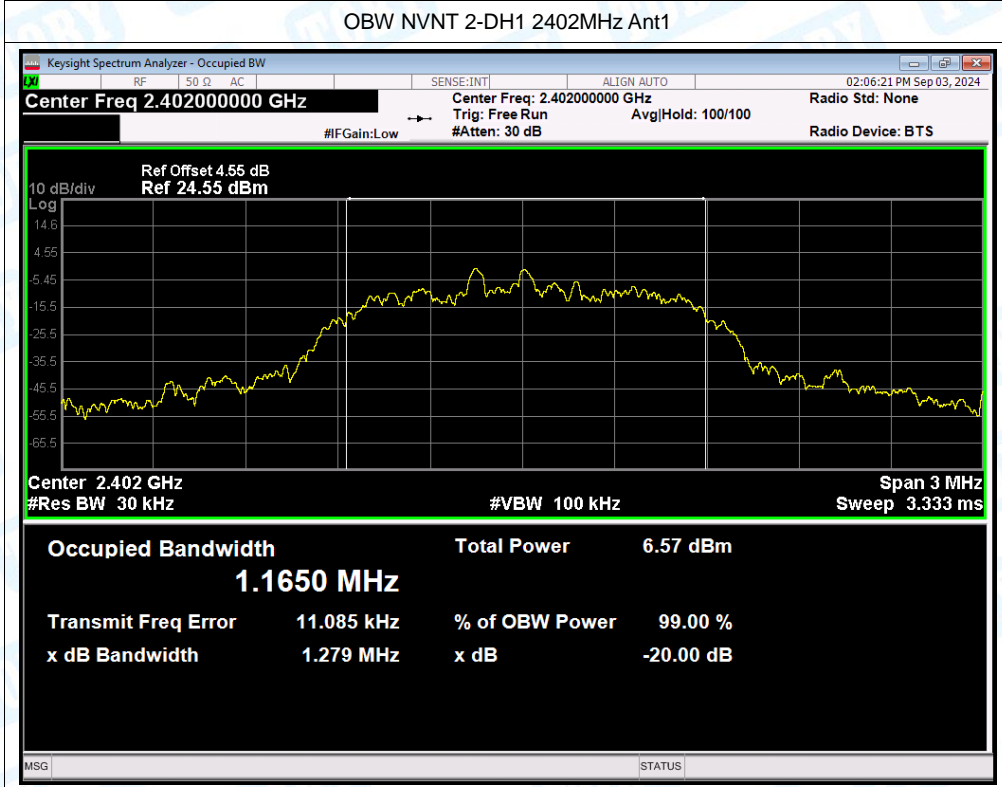
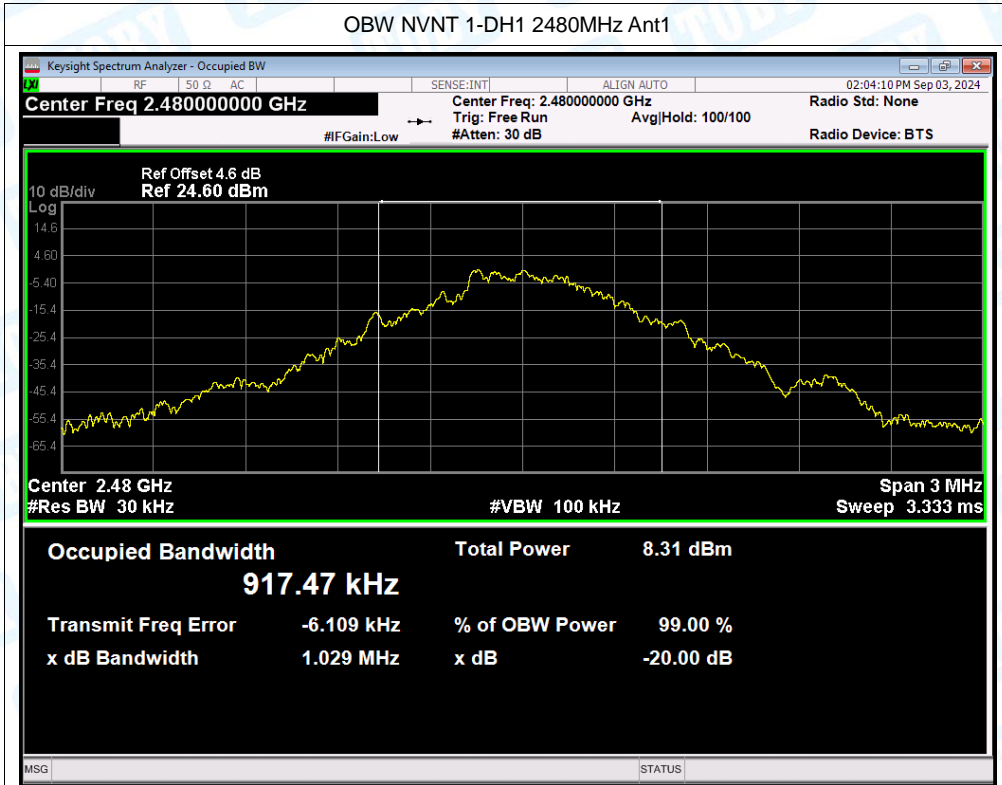
Test Graphs

OBW NVNT 1-DH1 2402MHz Ant1

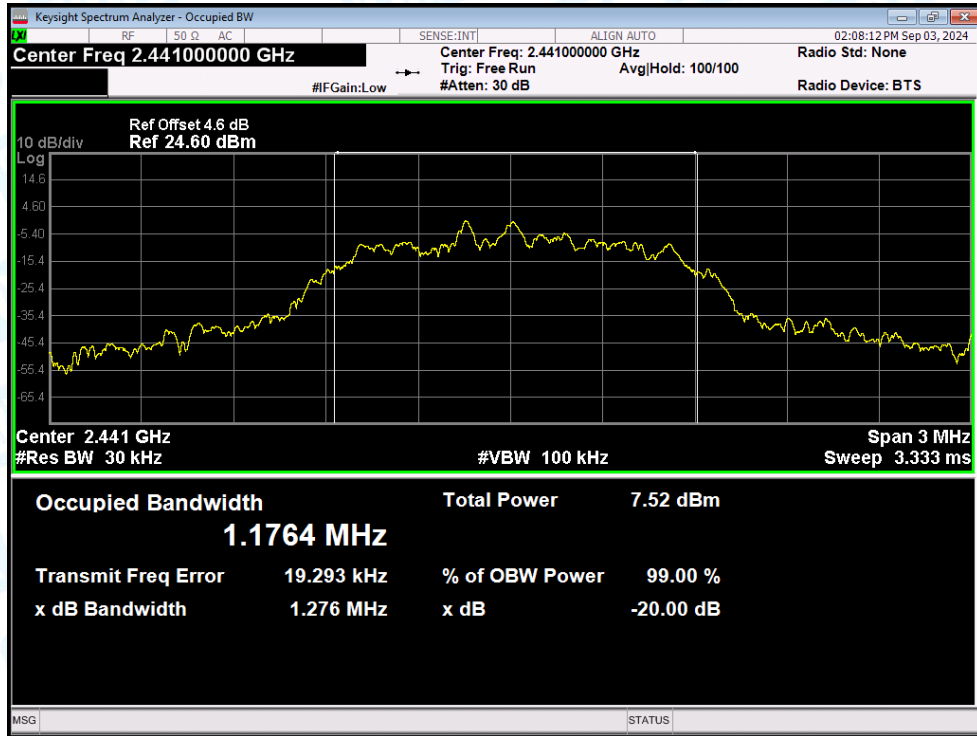


OBW NVNT 1-DH1 2441MHz Ant1

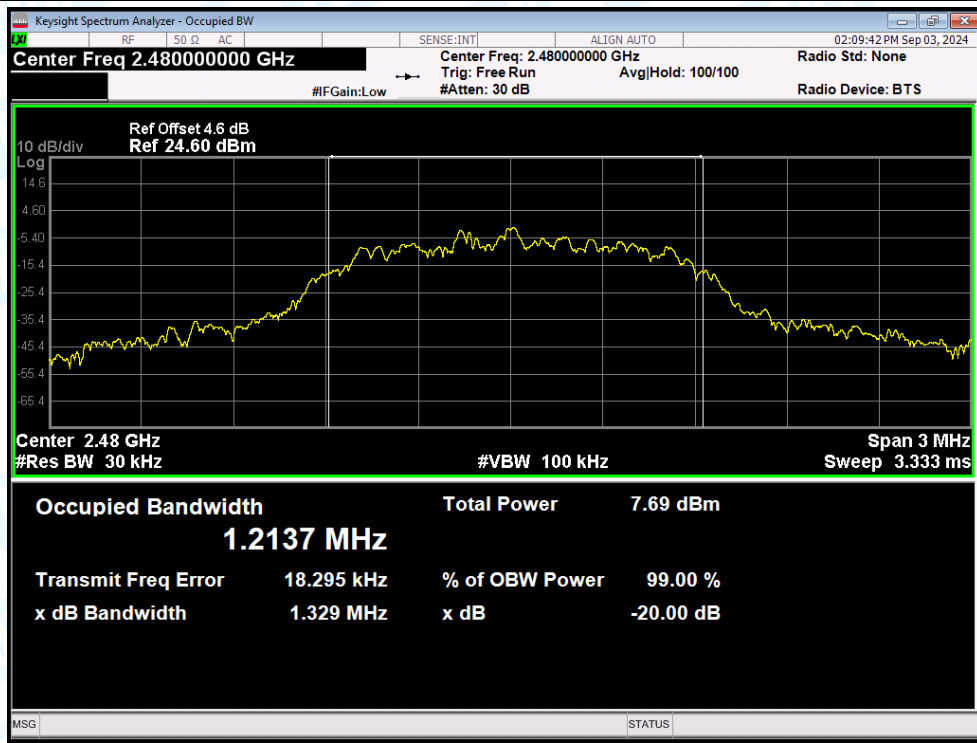




OBW NVNT 2-DH1 2441MHz Ant1

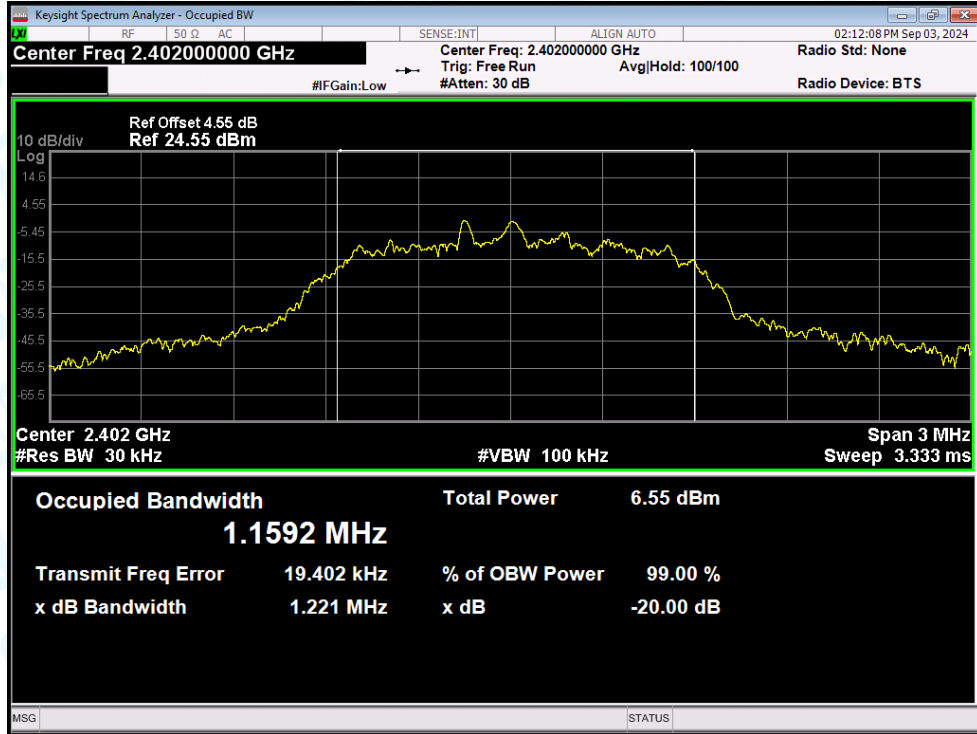


OBW NVNT 2-DH1 2480MHz Ant1

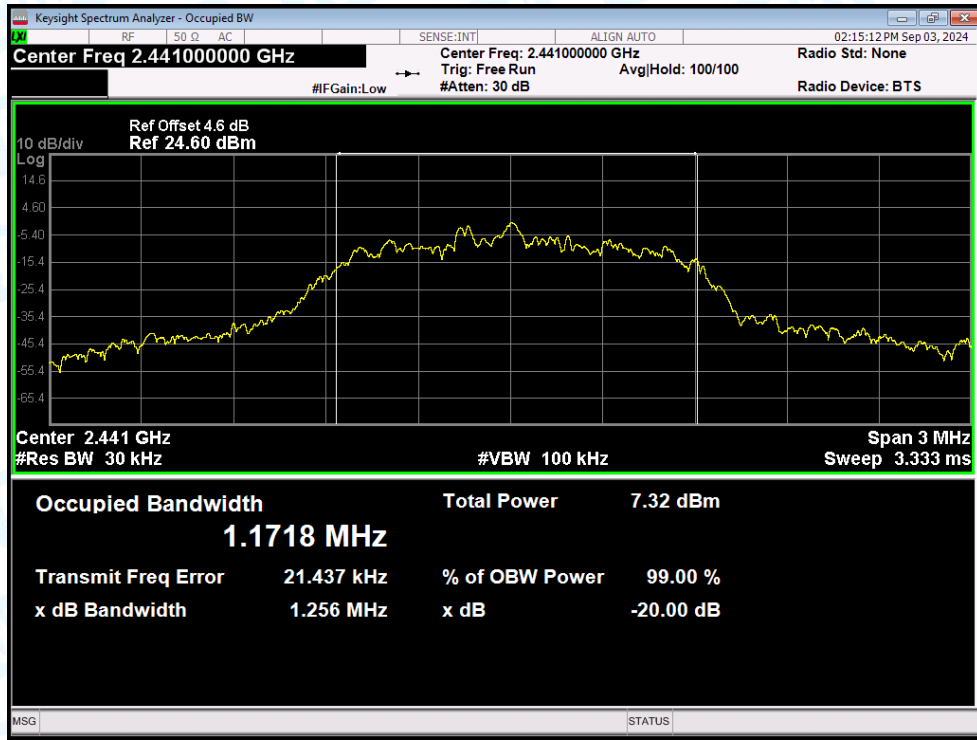


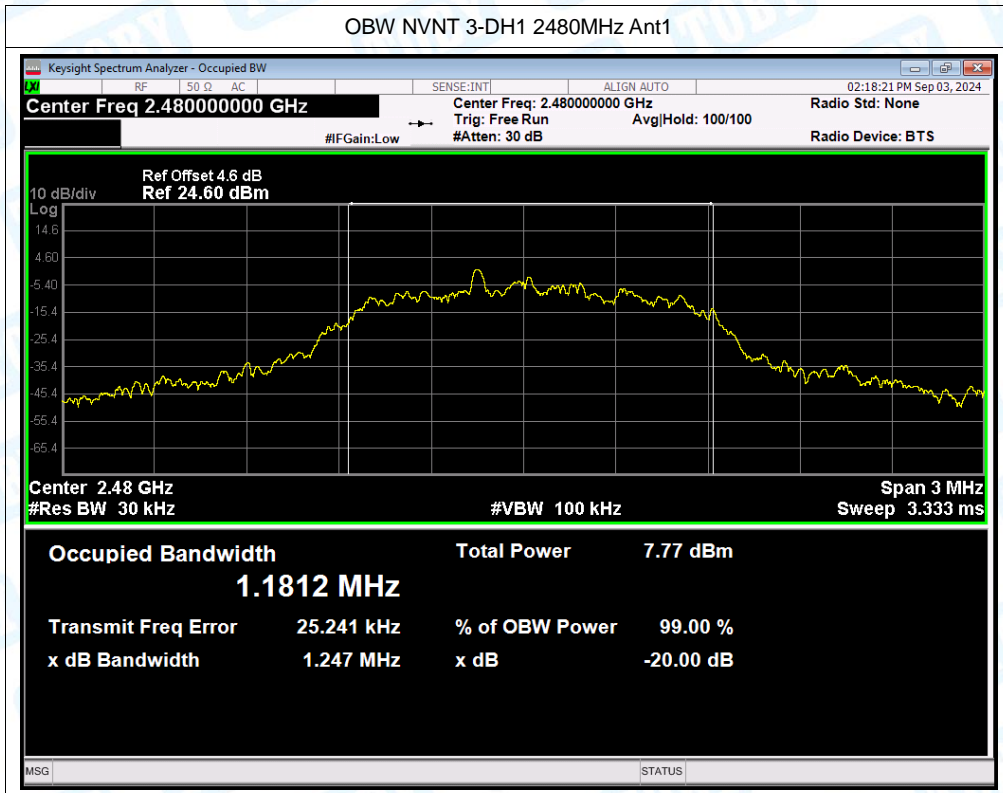


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



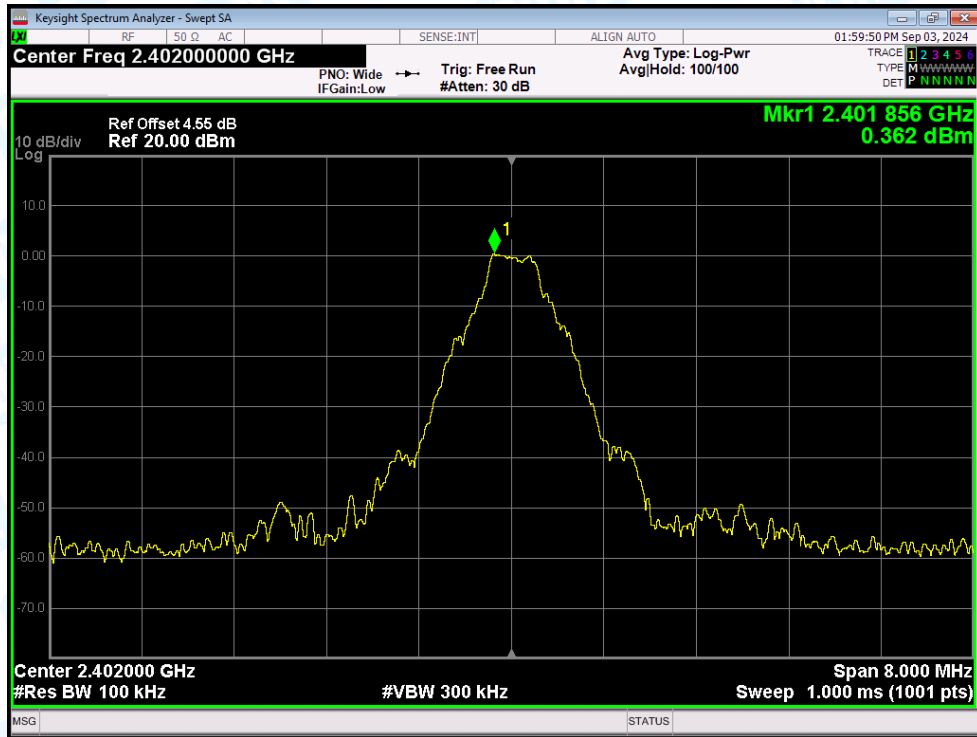


## 5. Band Edge

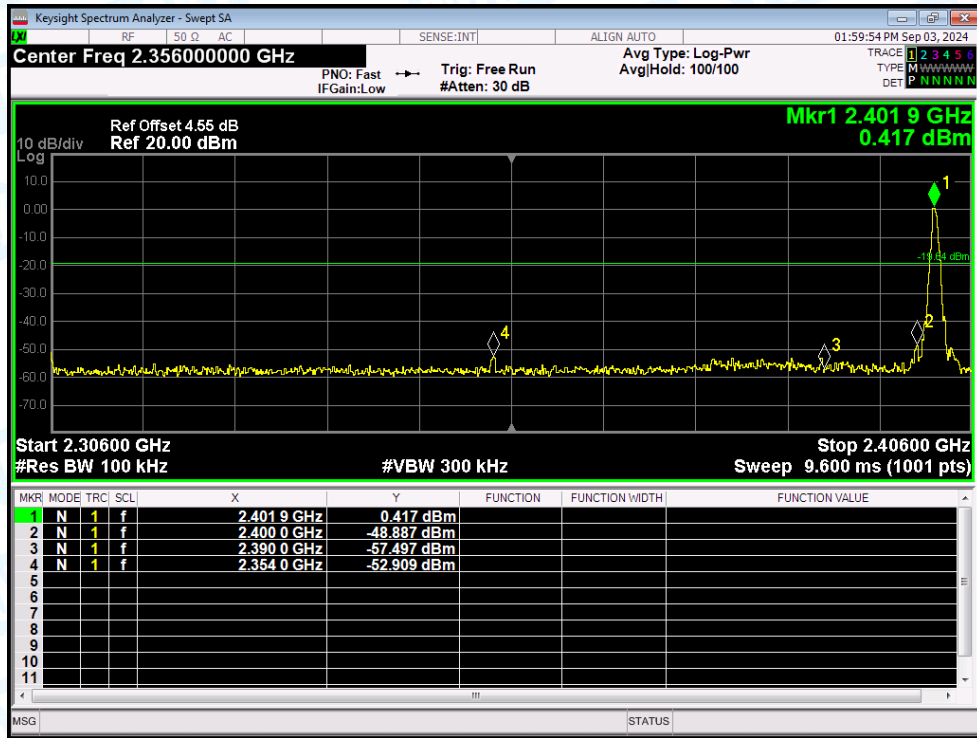
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-53.27	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.52	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-53.61	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-52.97	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-52.35	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-53.47	-20	Pass

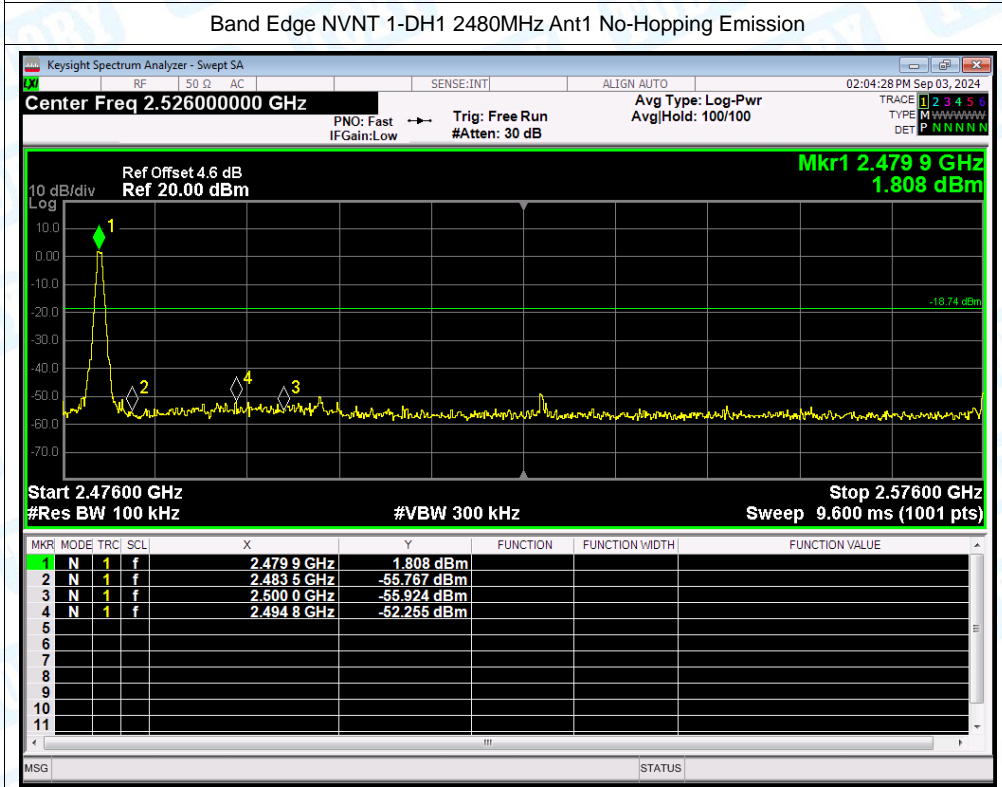
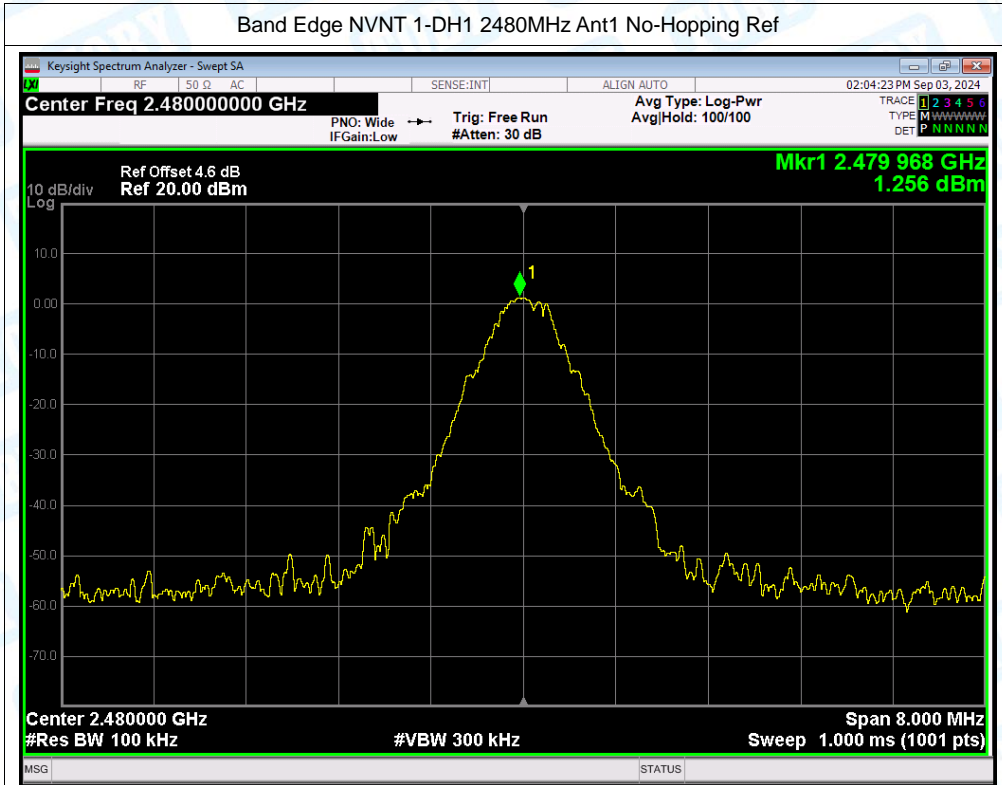
Test Graphs

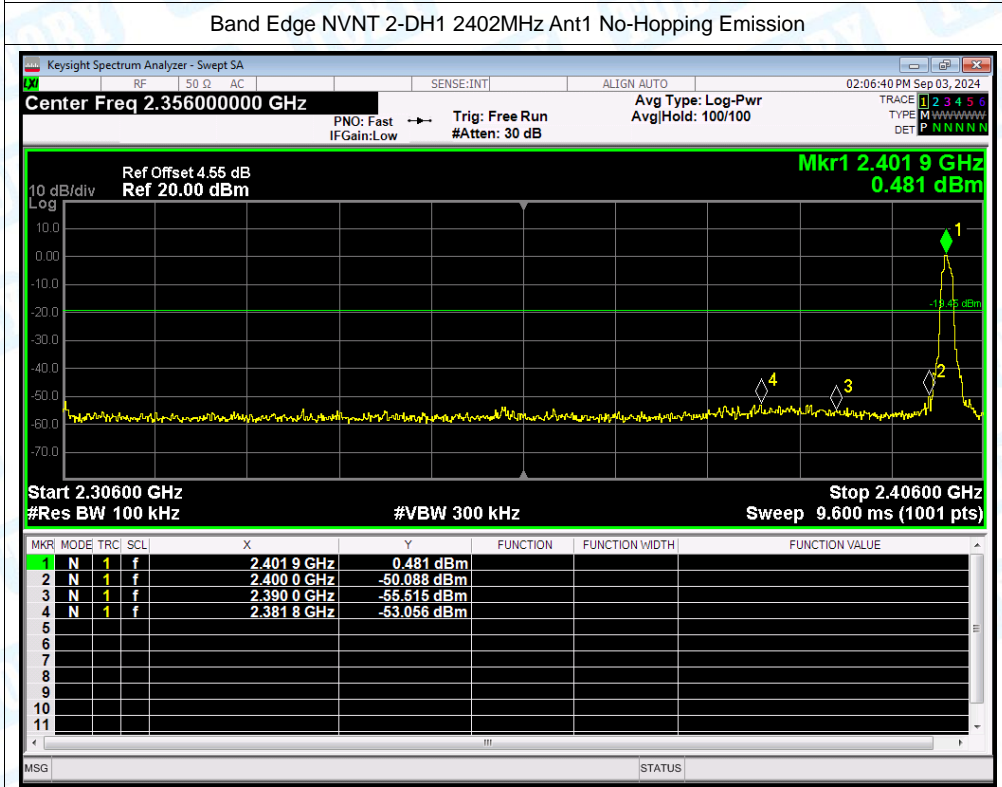
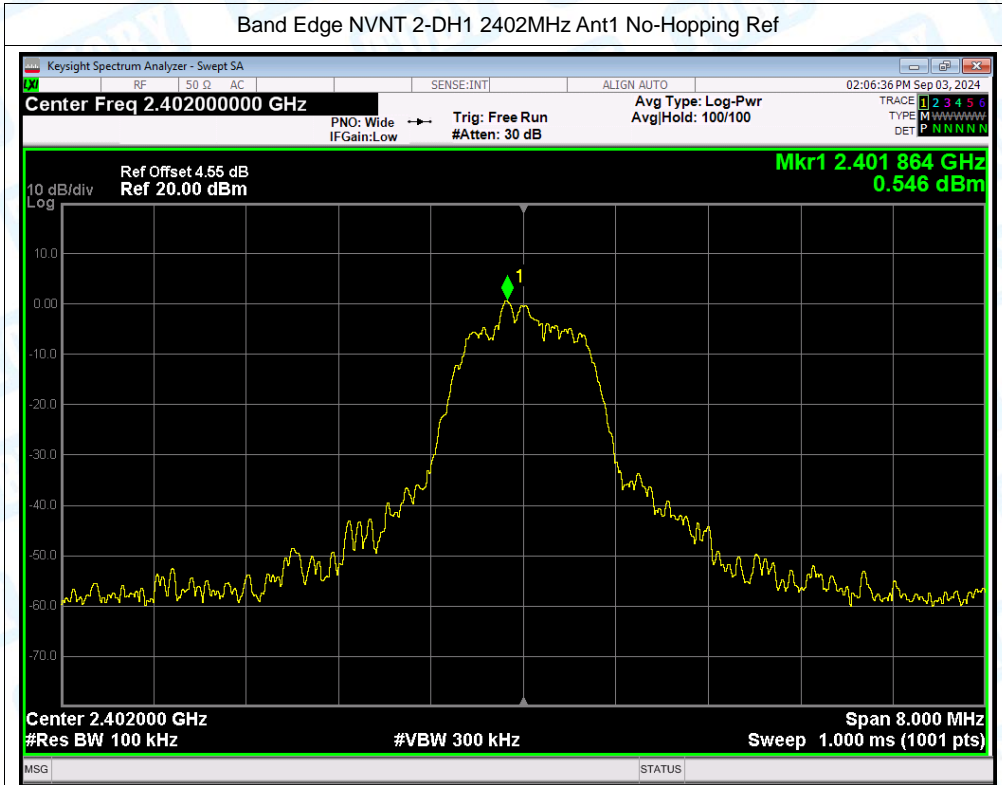
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

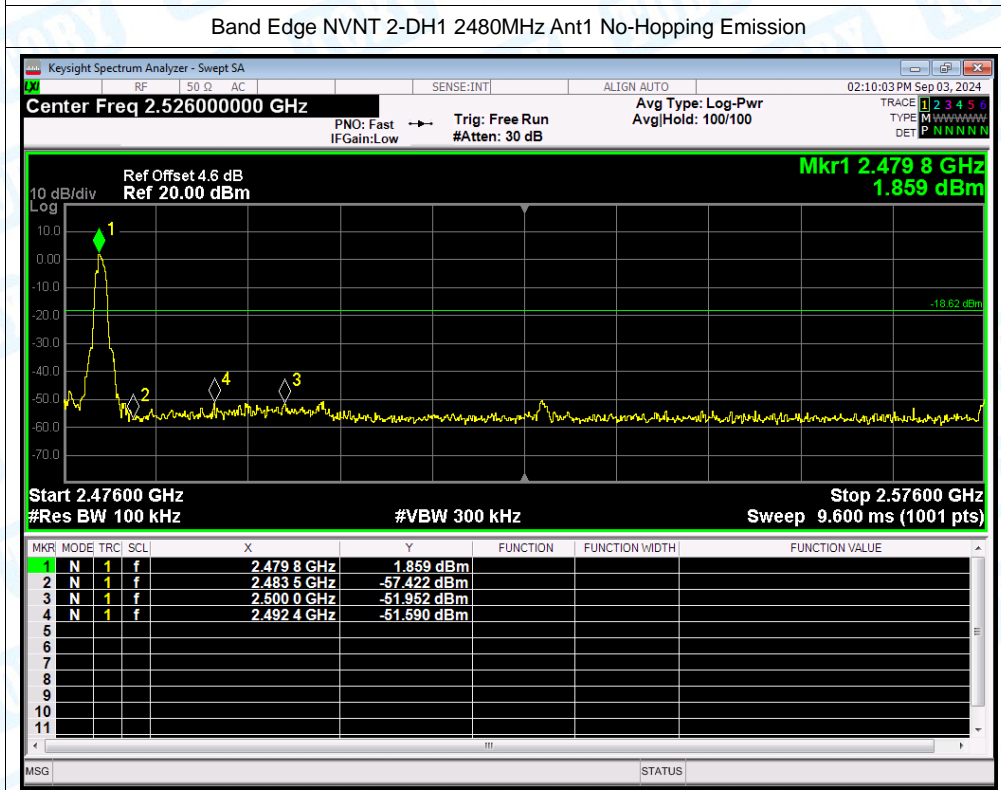
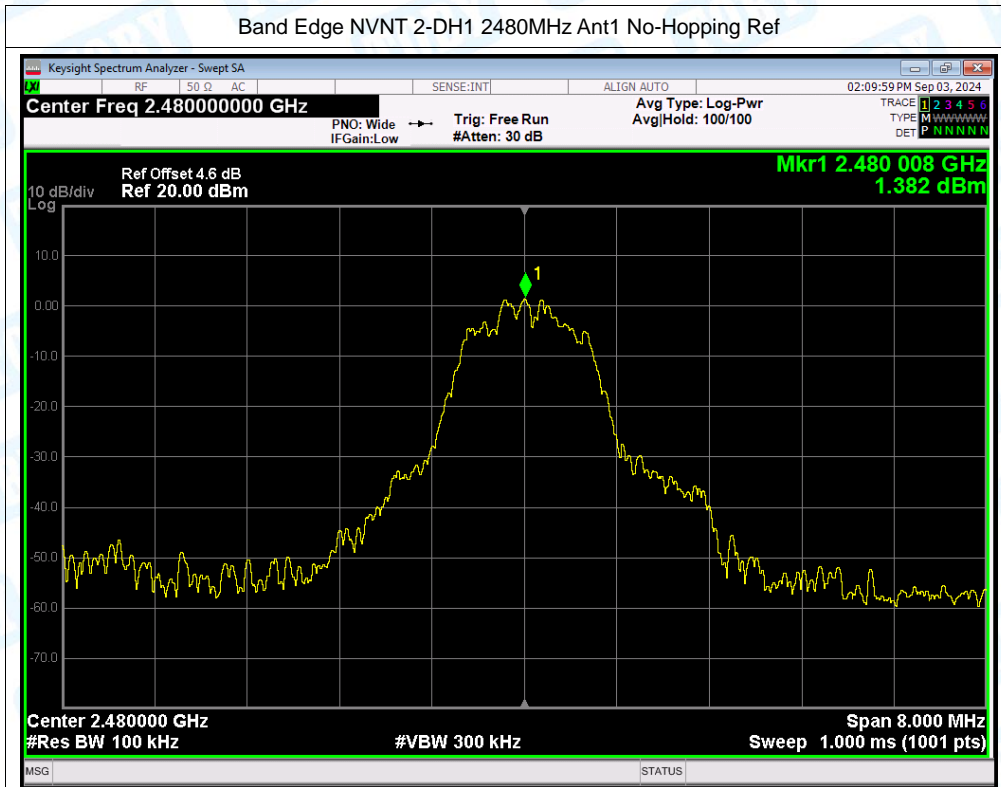


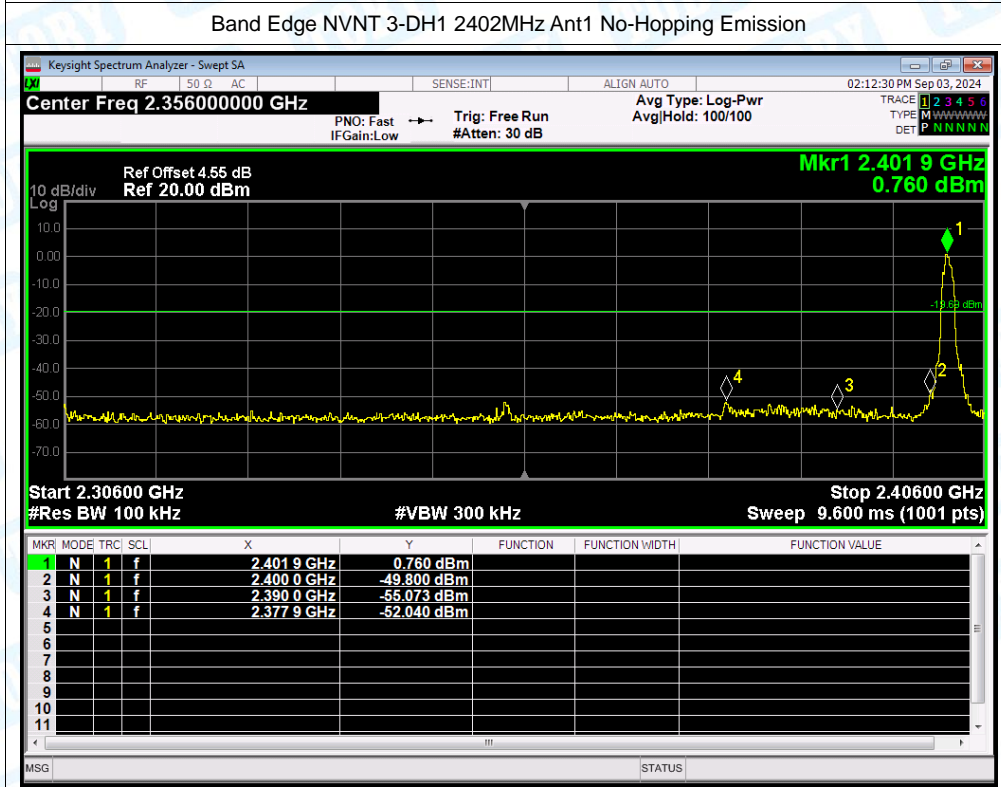
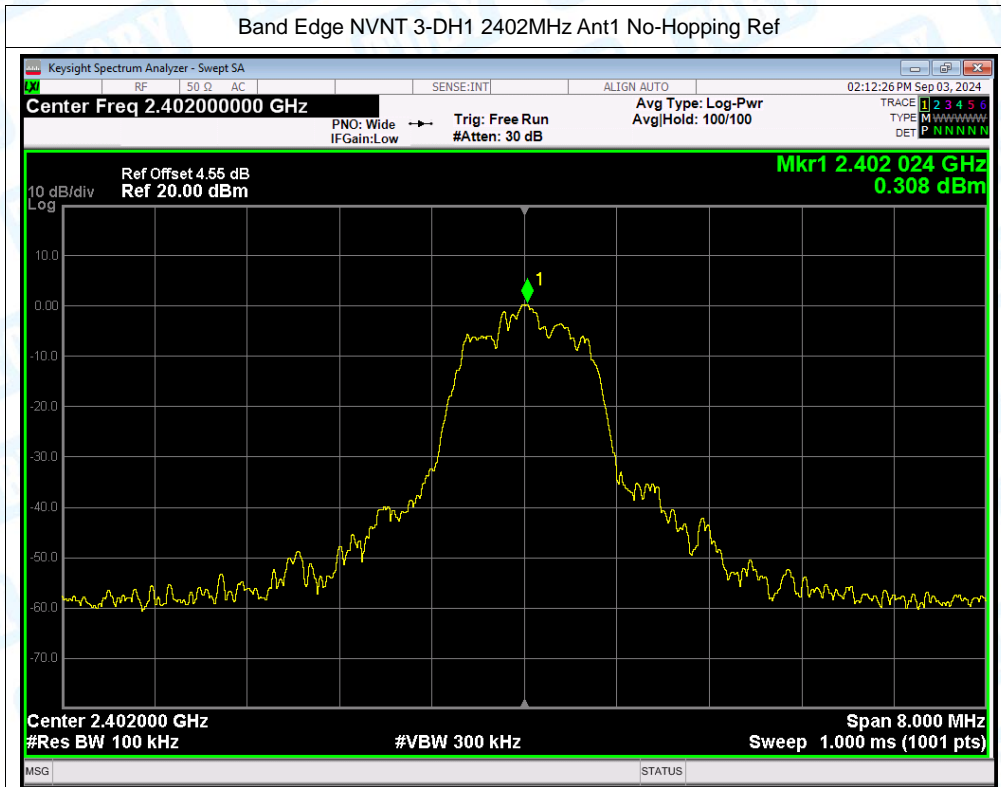
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



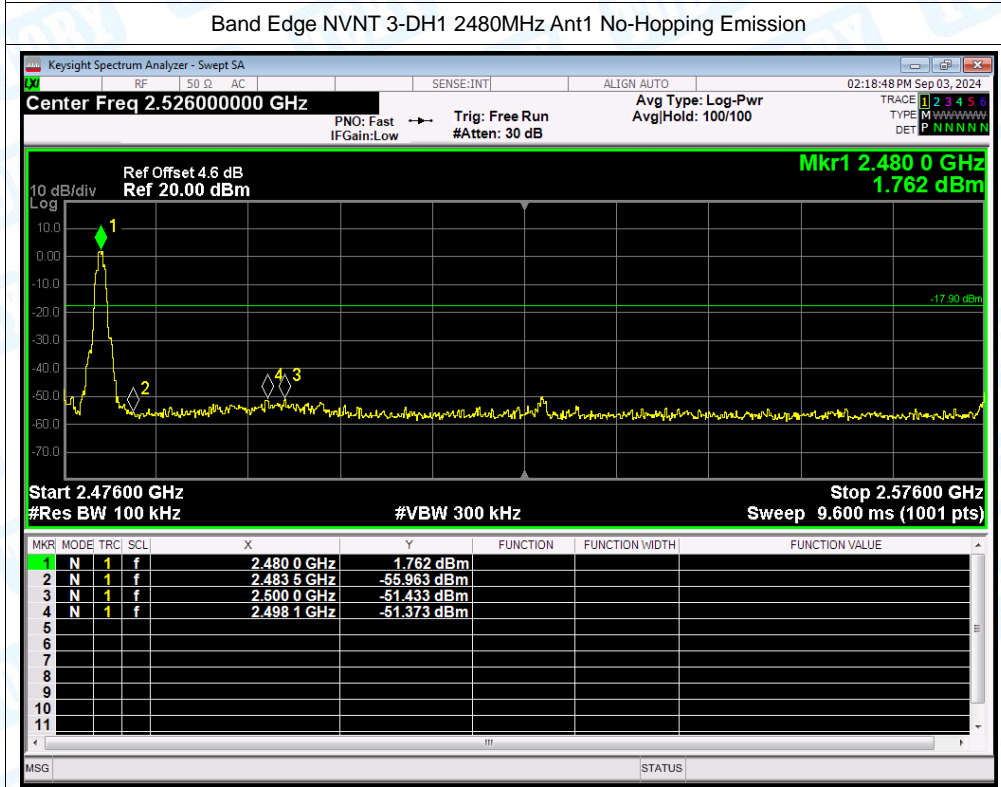
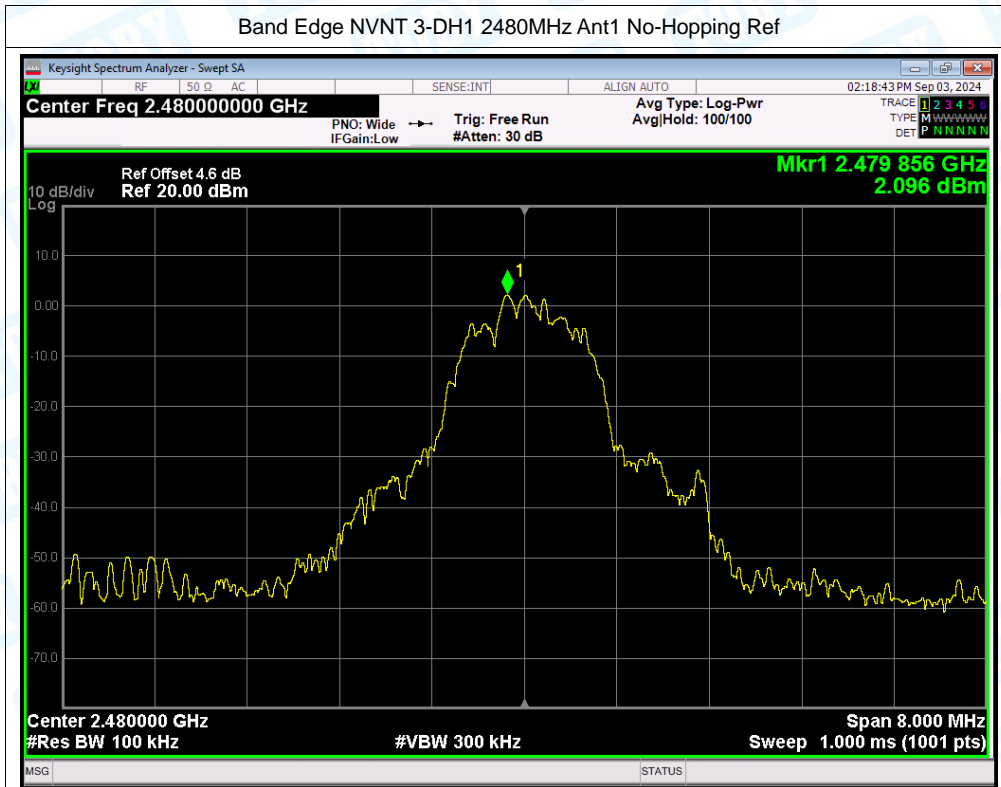










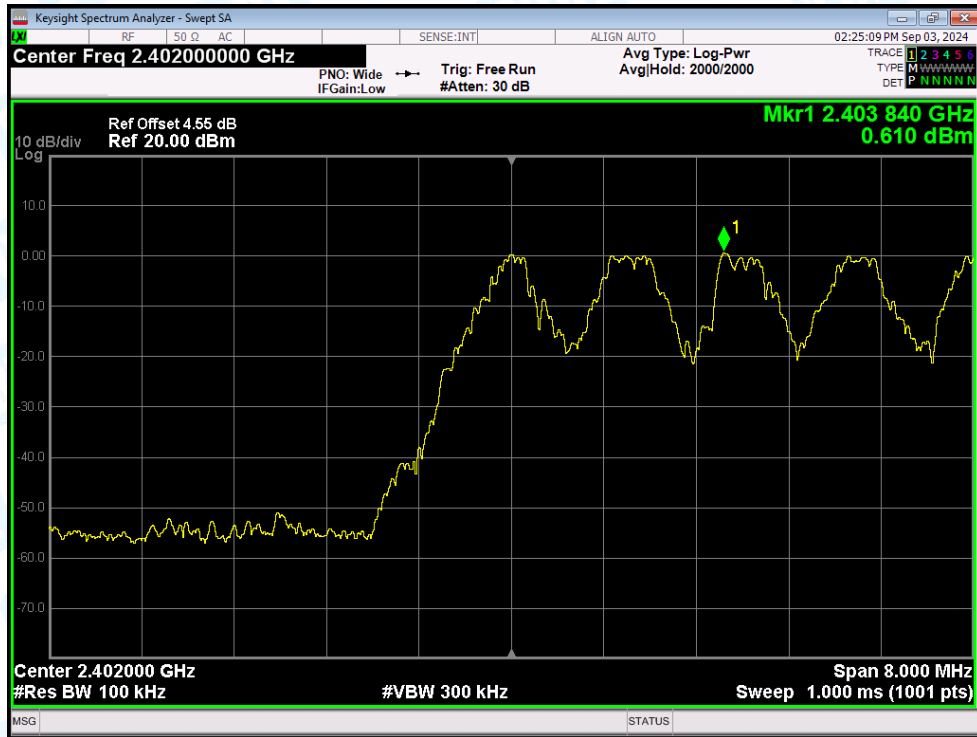


## 6. Band Edge(Hopping)

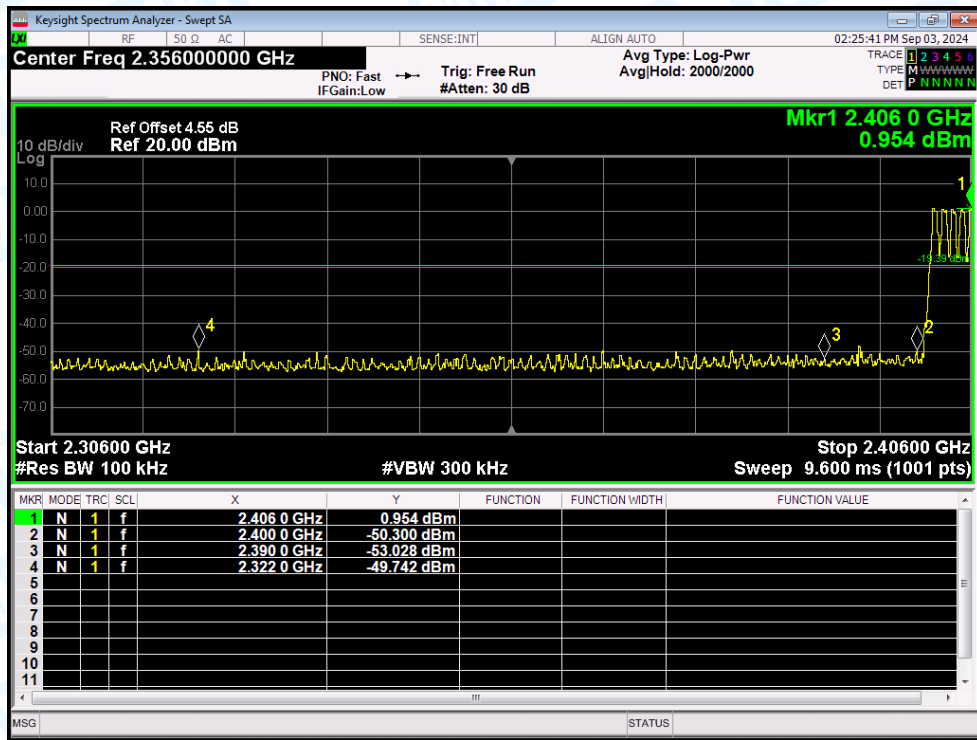
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-50.35	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-47.7	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-50.61	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-49.87	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-49.98	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-50.62	-20	Pass

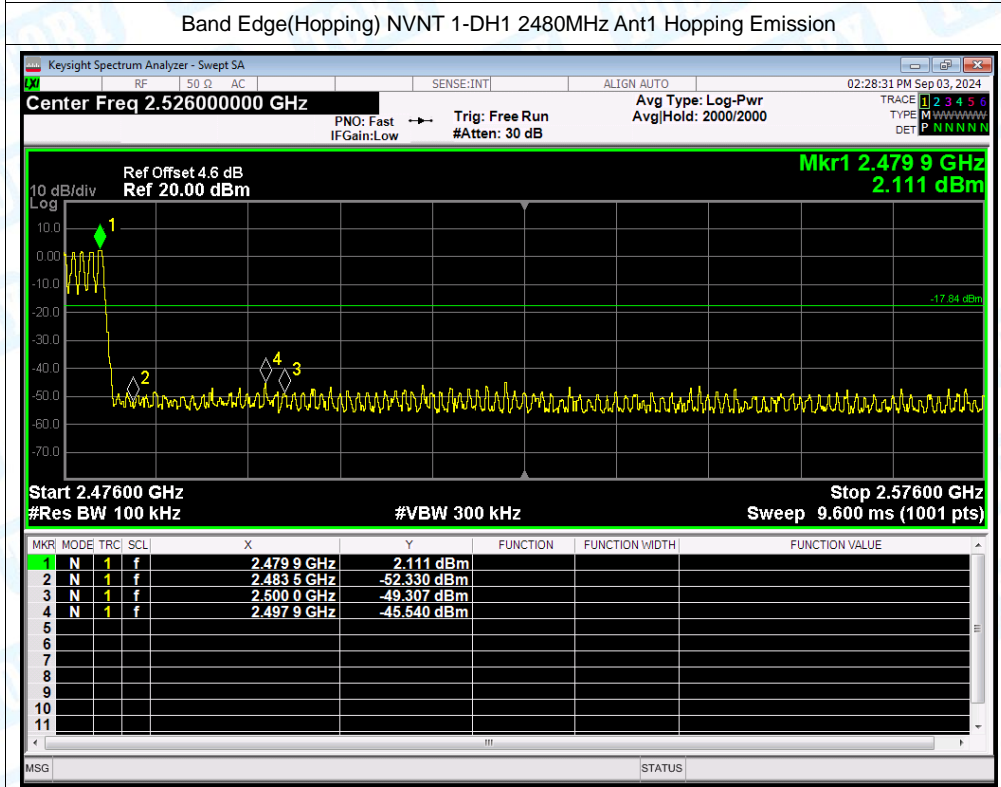
Test Graphs

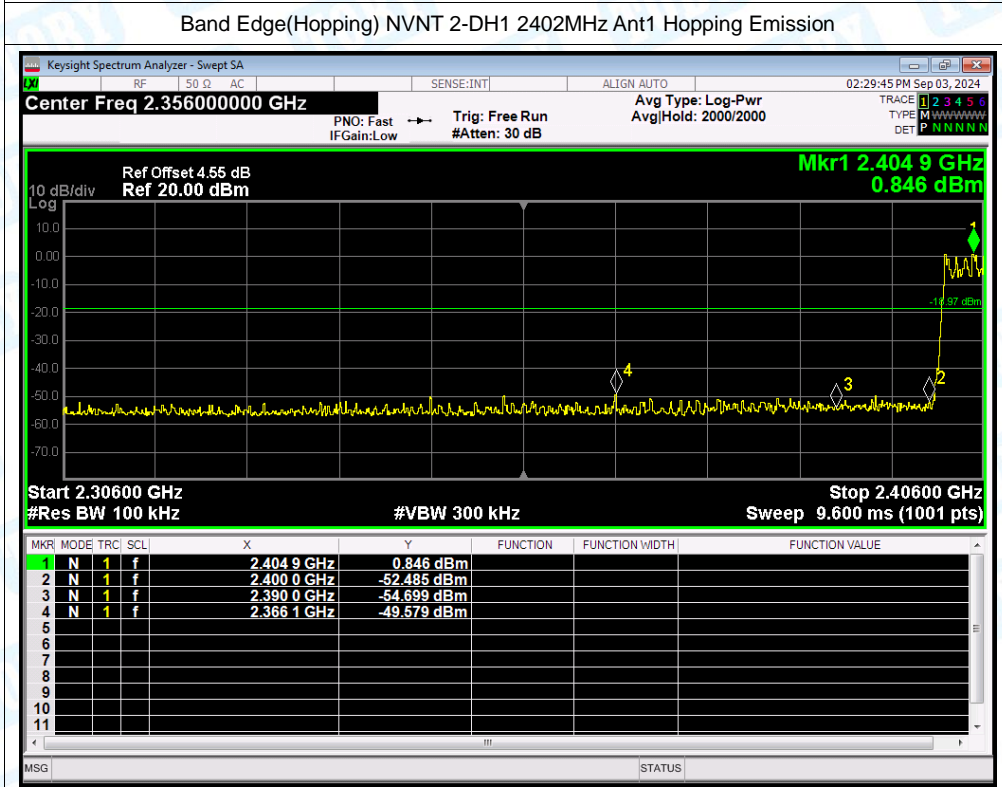
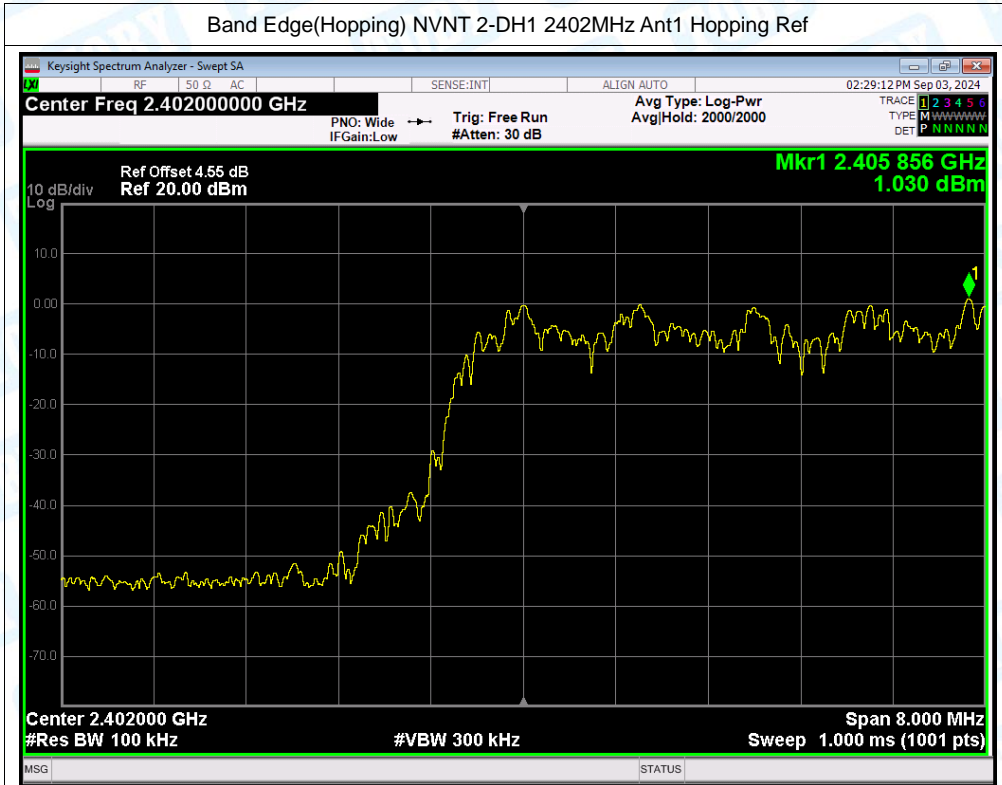
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

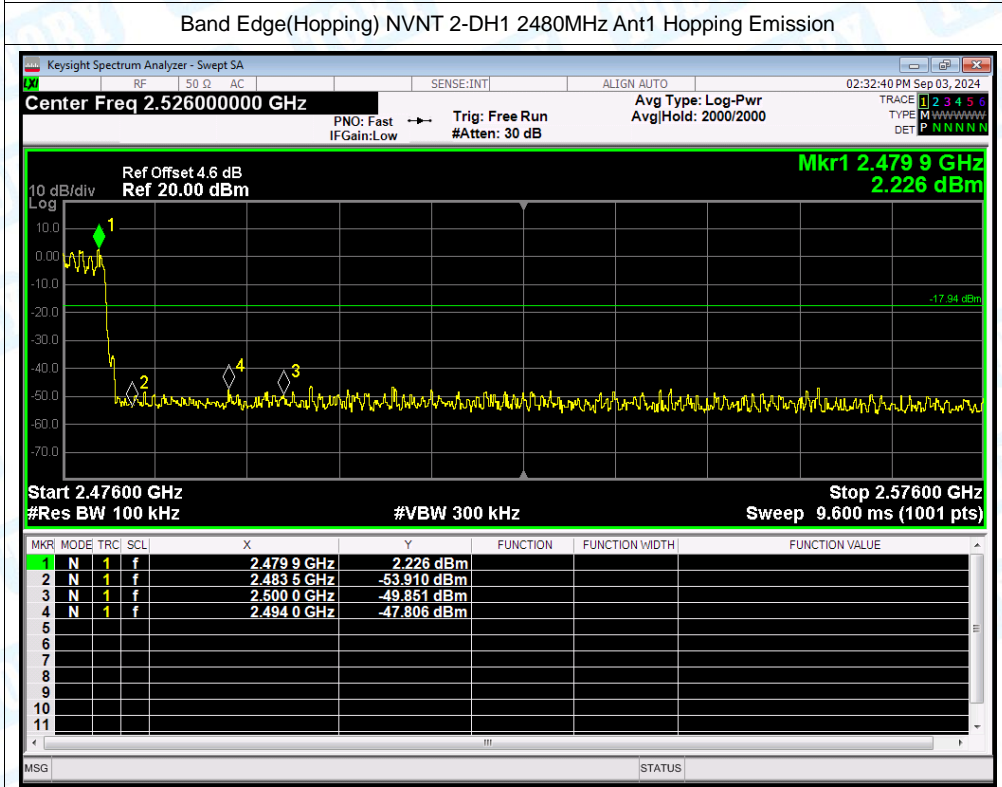


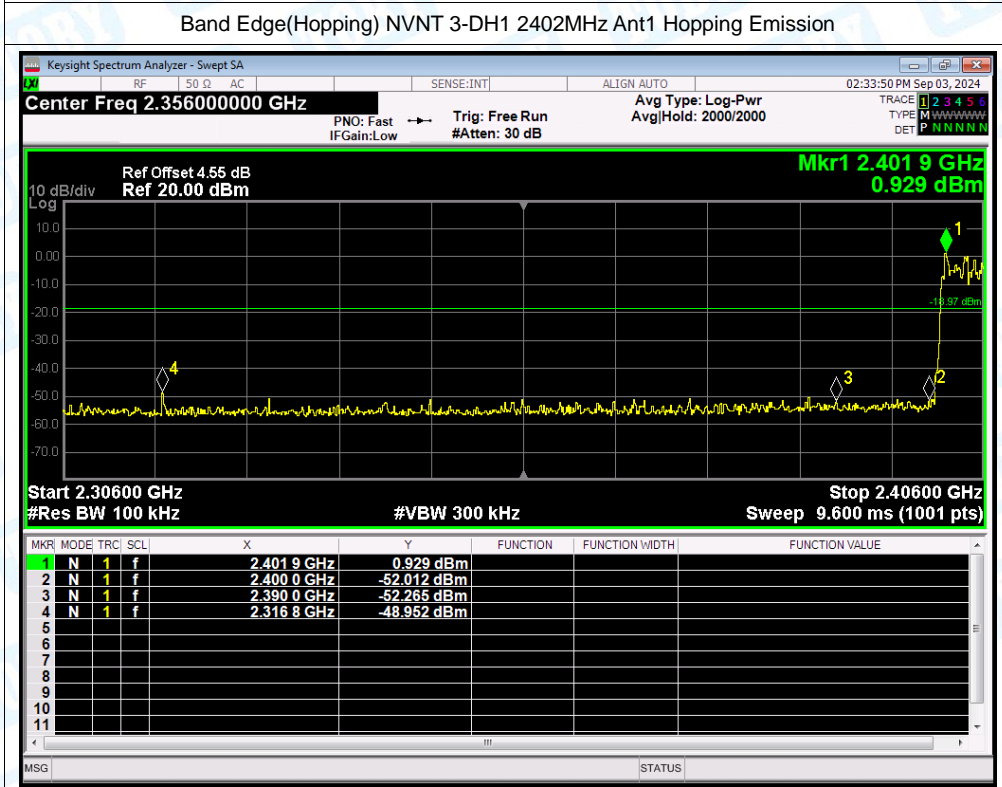
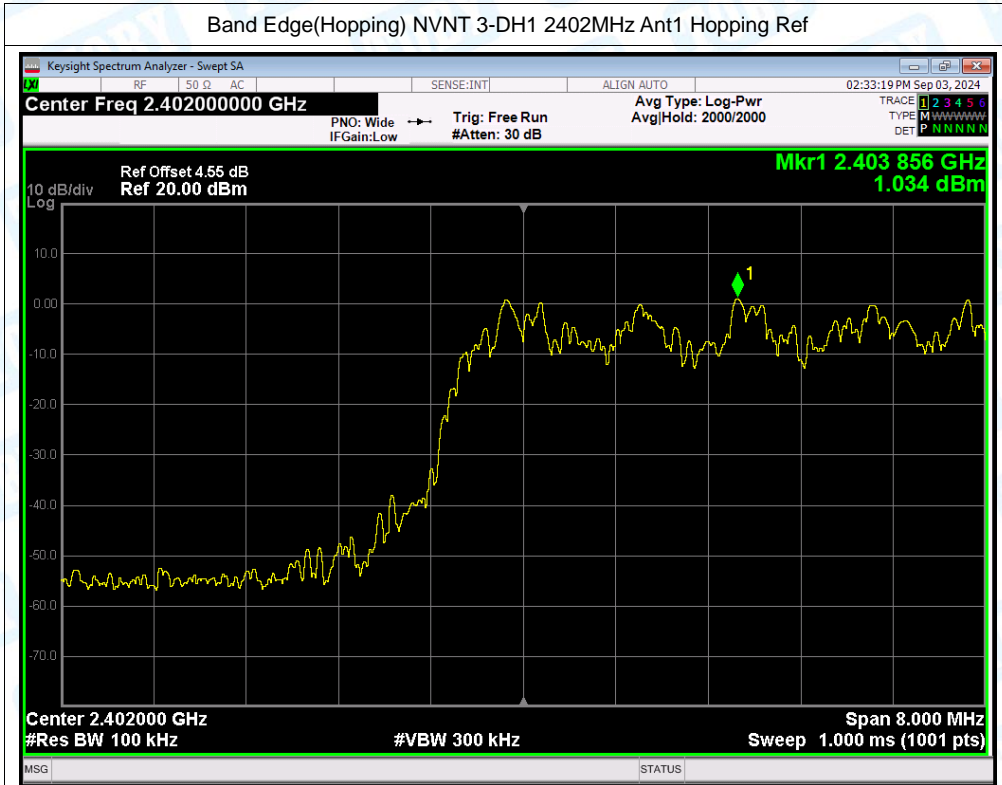
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

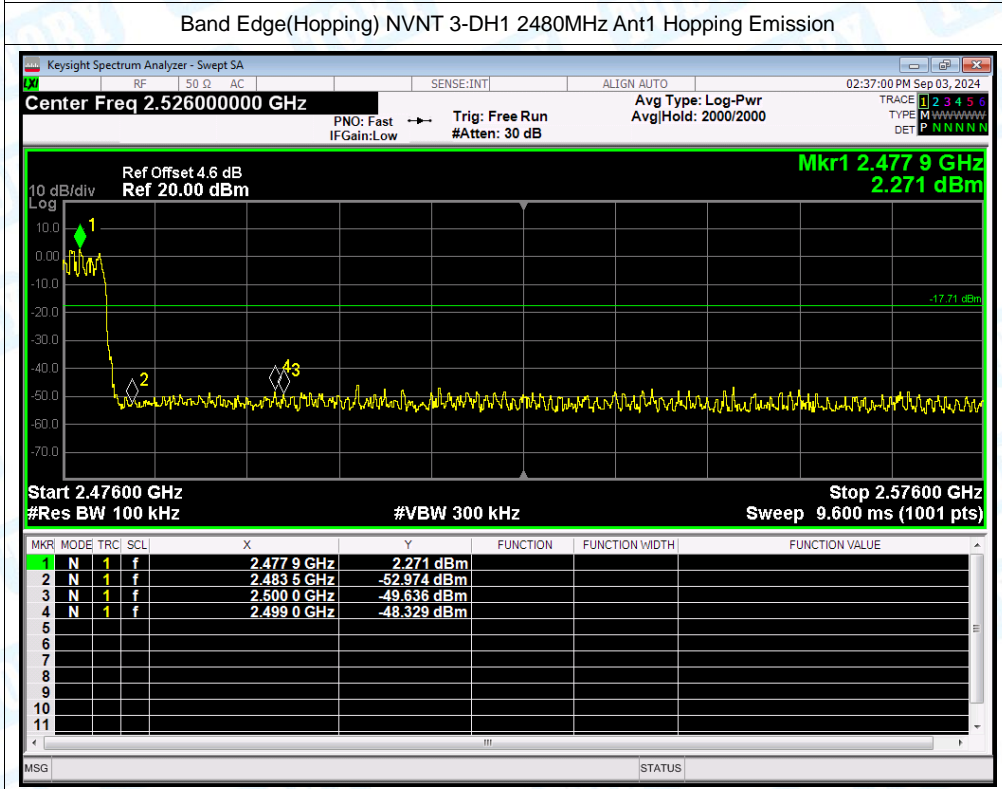












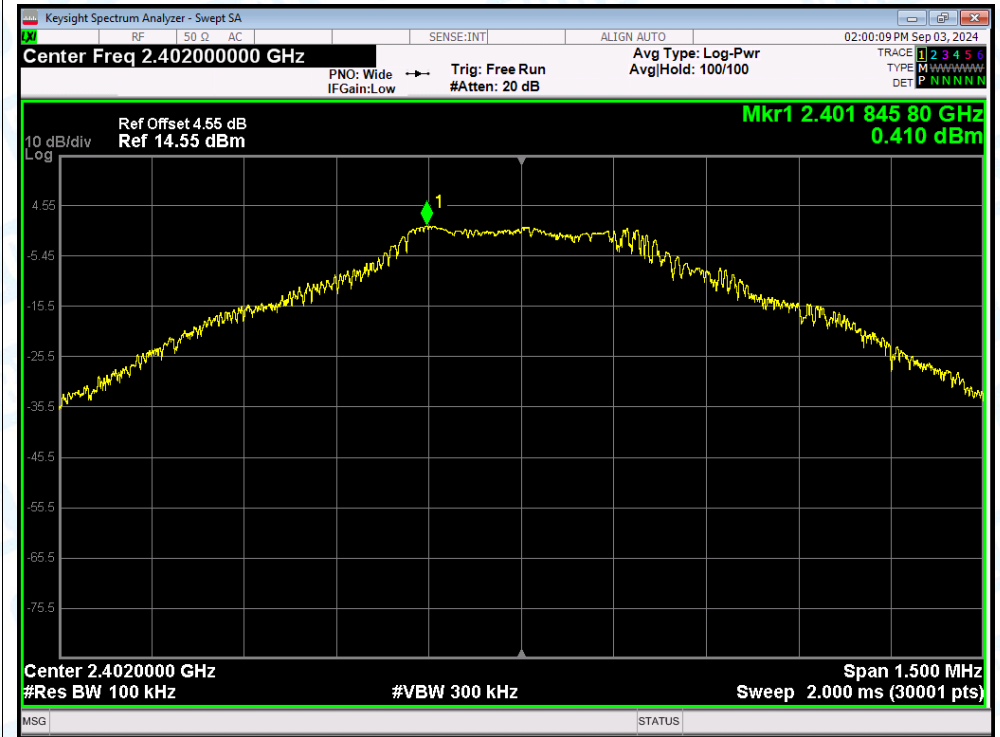


## 7. Conducted RF Spurious Emission

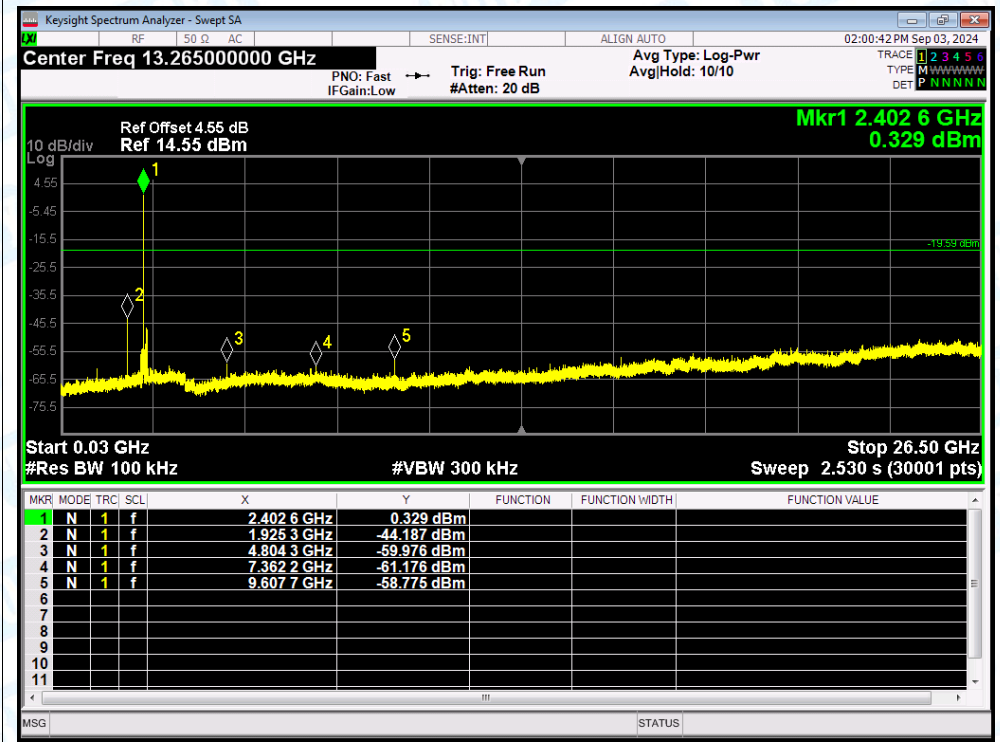
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-44.6	-20	Pass
NVNT	1-DH1	2441	Ant1	-50.51	-20	Pass
NVNT	1-DH1	2480	Ant1	-49.06	-20	Pass
NVNT	2-DH1	2402	Ant1	-51.35	-20	Pass
NVNT	2-DH1	2441	Ant1	-51.31	-20	Pass
NVNT	2-DH1	2480	Ant1	-50.95	-20	Pass
NVNT	3-DH1	2402	Ant1	-51.65	-20	Pass
NVNT	3-DH1	2441	Ant1	-50.97	-20	Pass
NVNT	3-DH1	2480	Ant1	-49.17	-20	Pass

Test Graphs

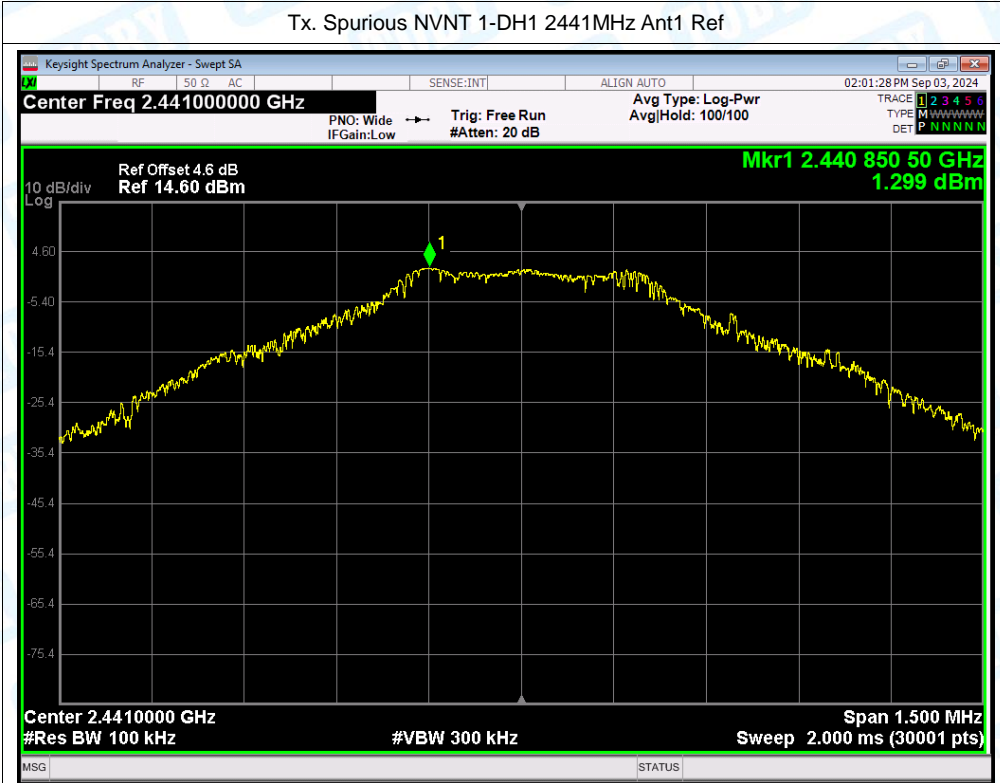
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



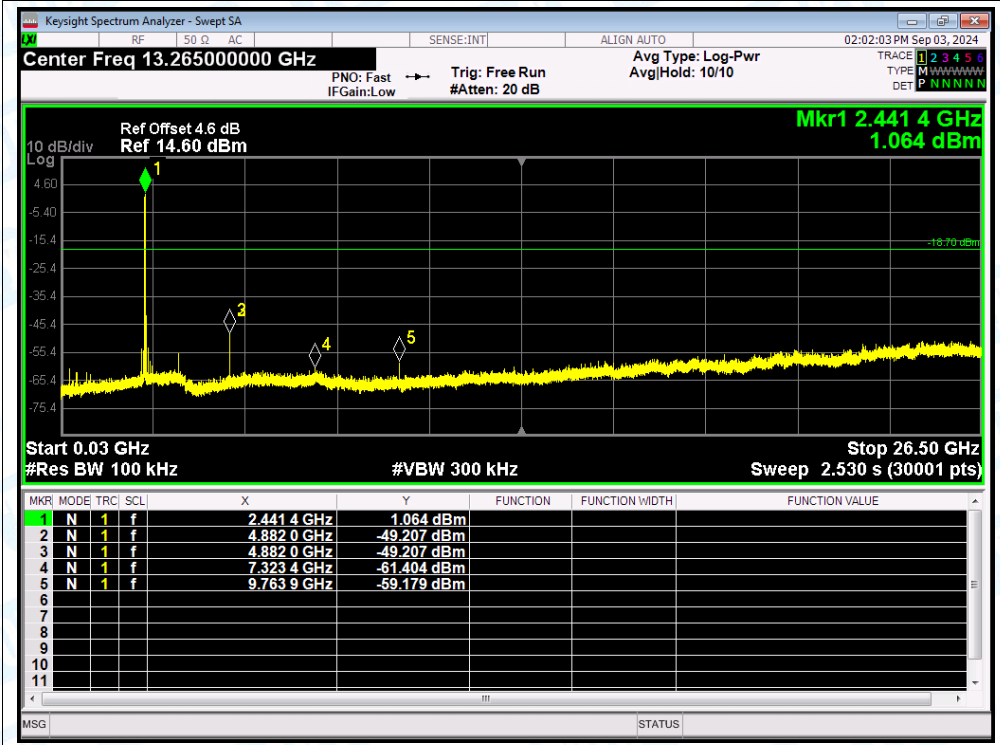
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



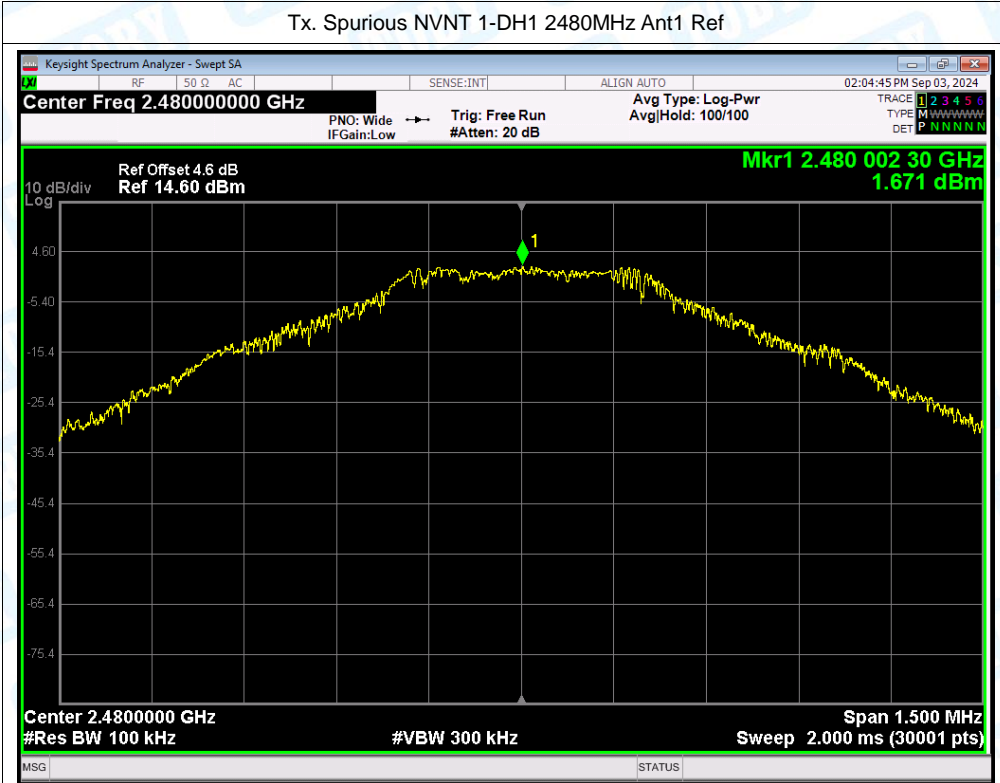
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



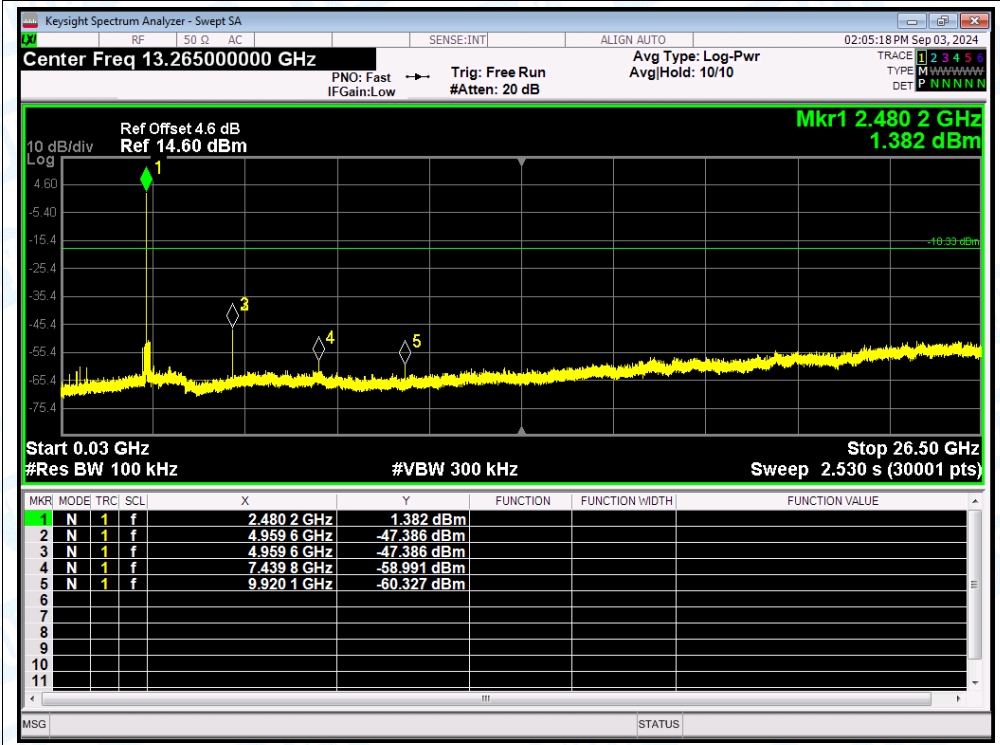
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



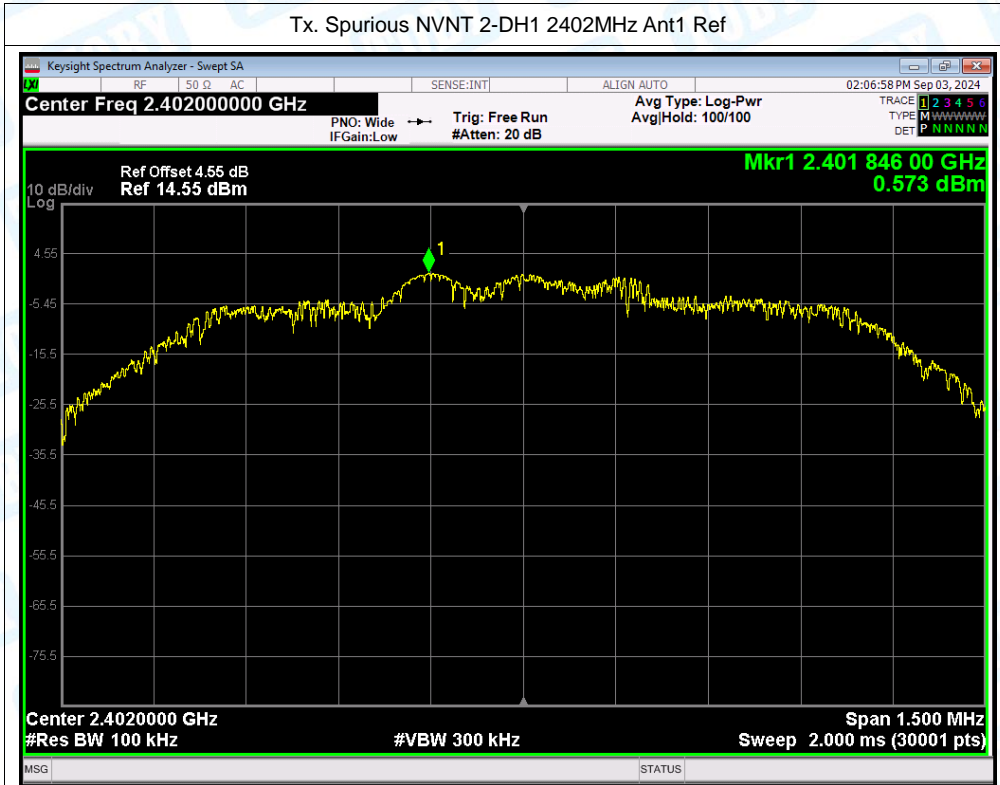
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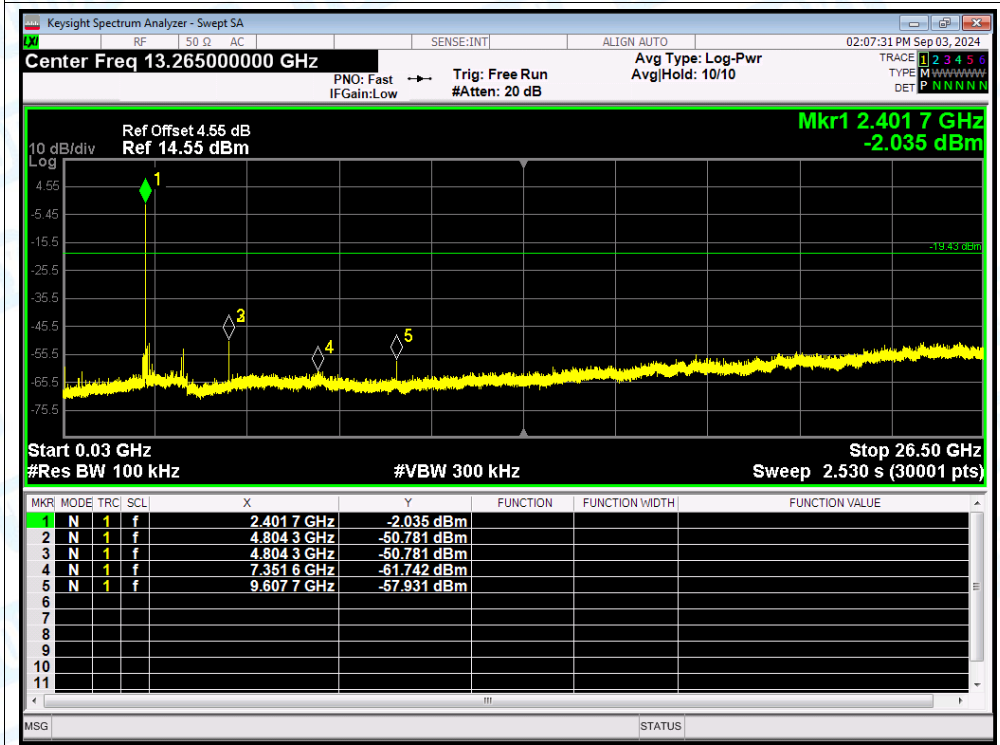
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



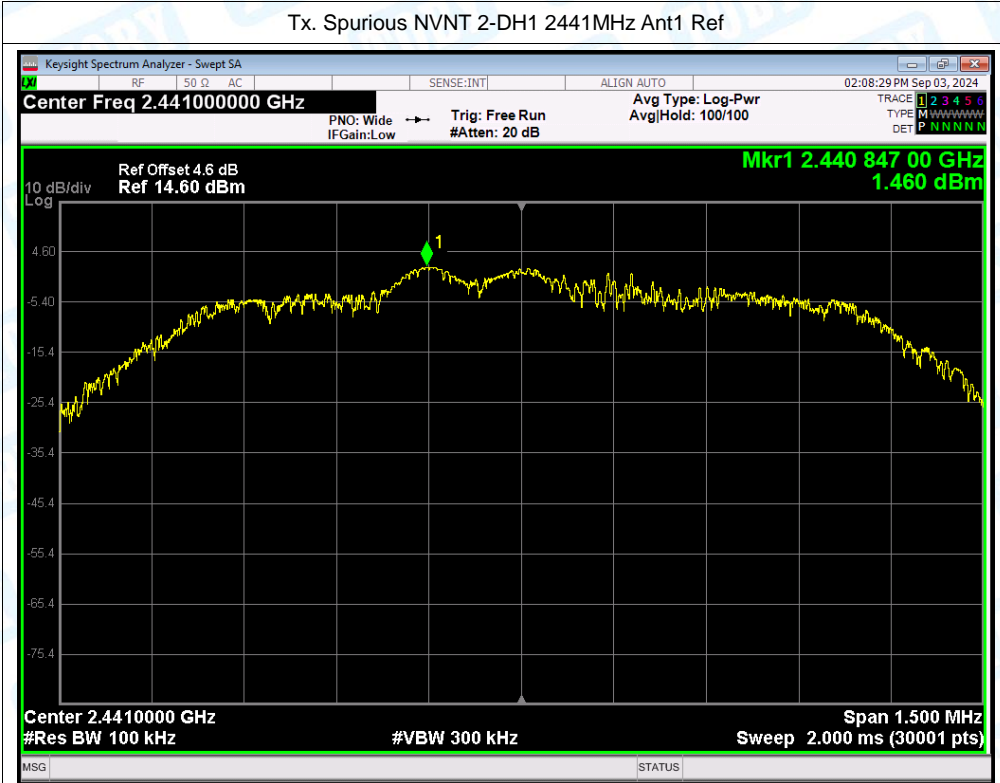
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



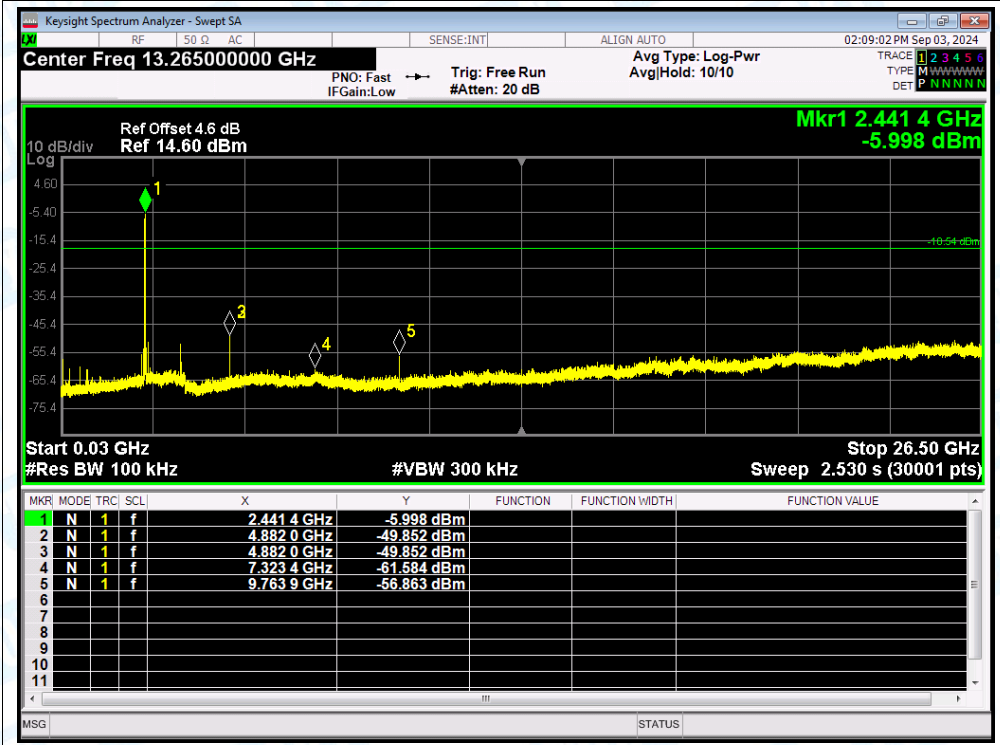
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



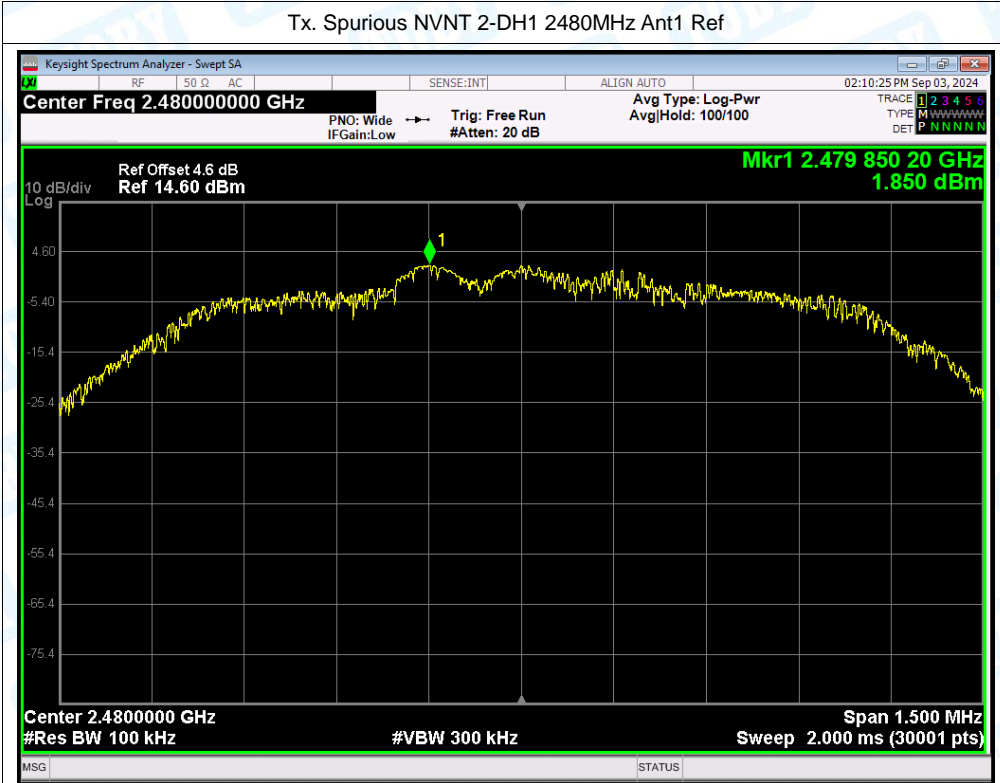
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



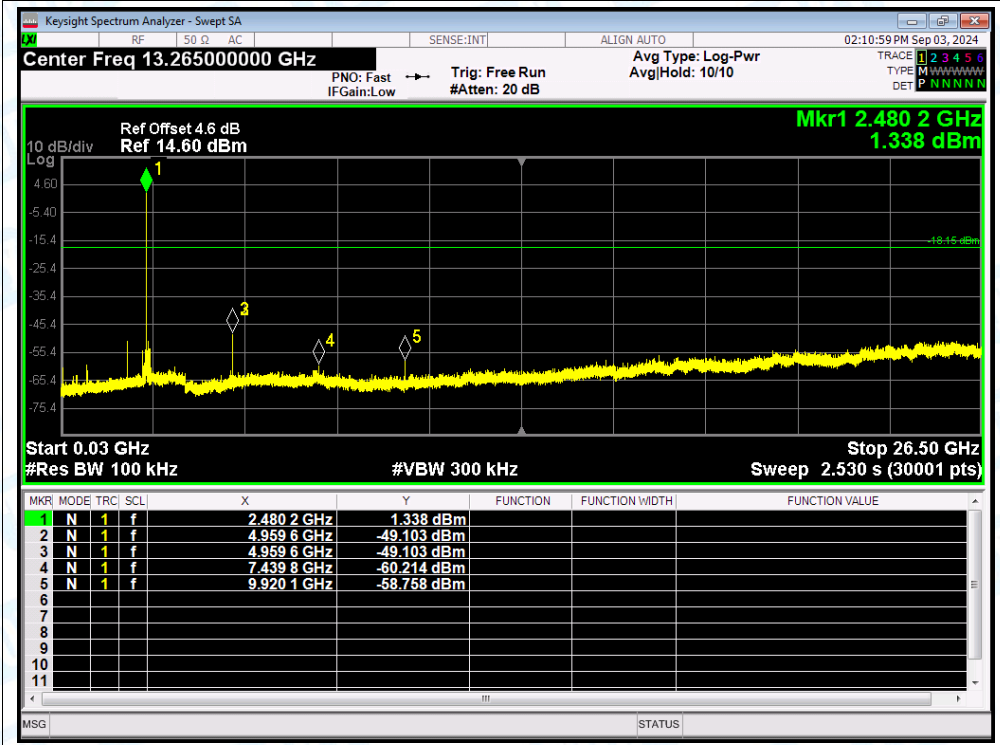
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



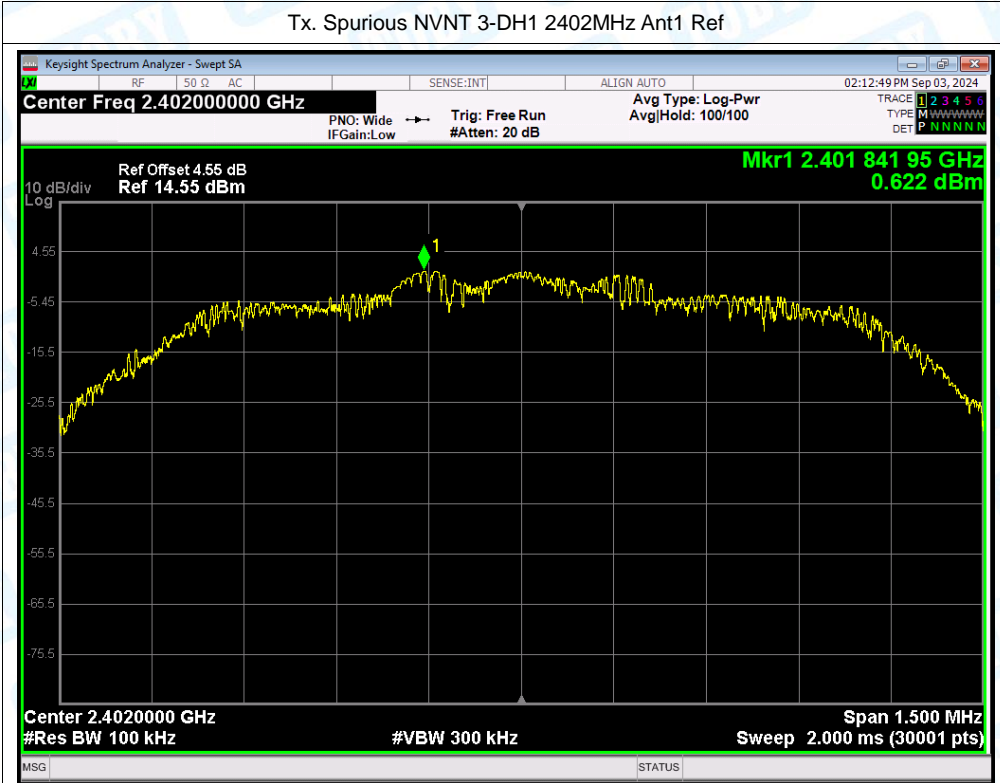
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



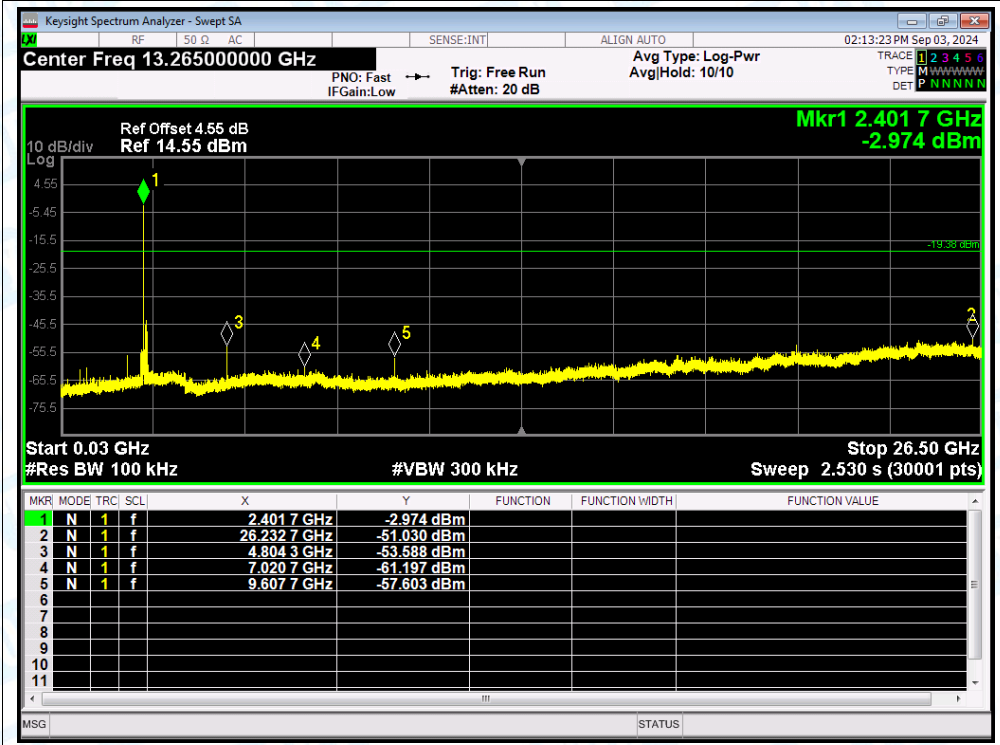
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref

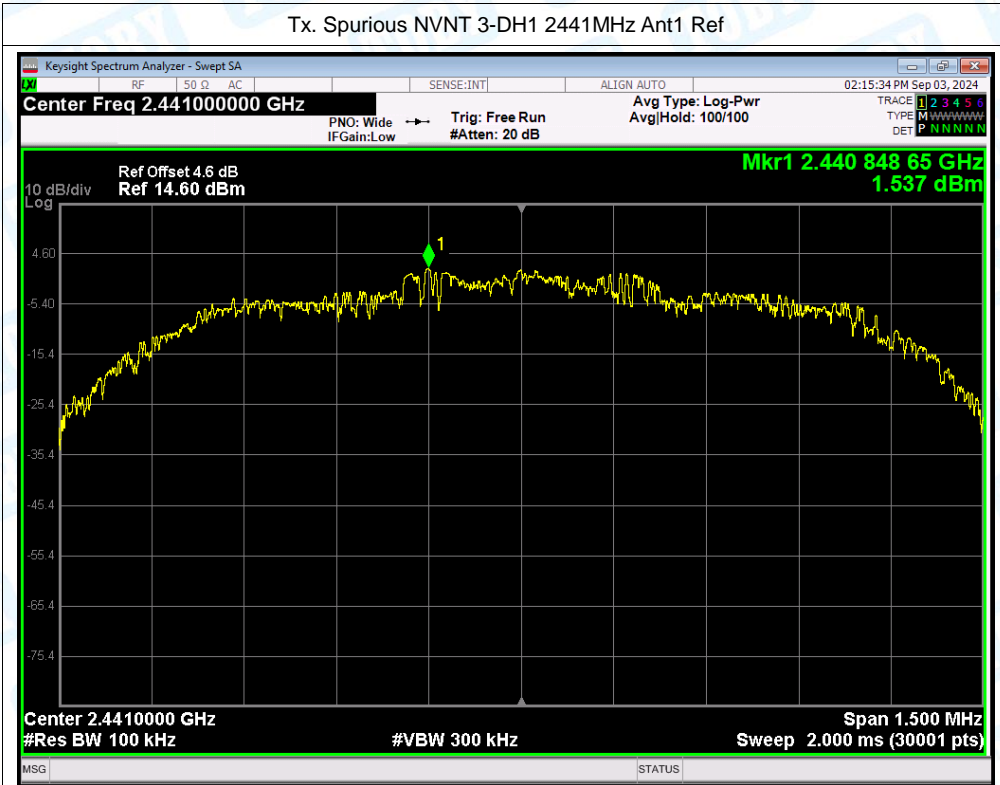


Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission

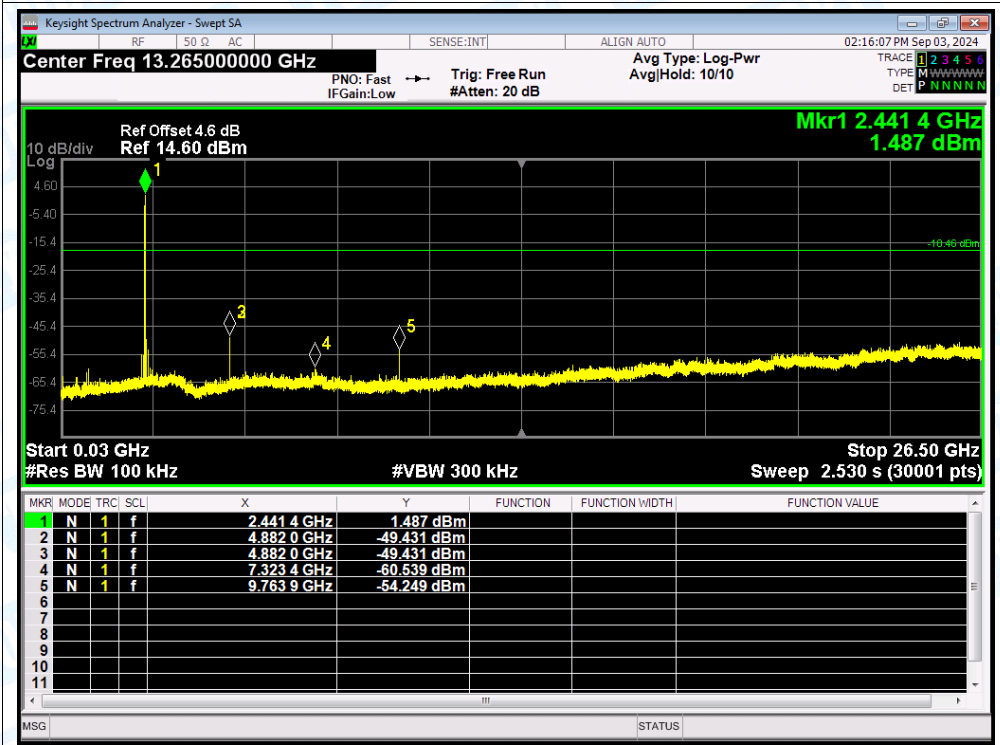




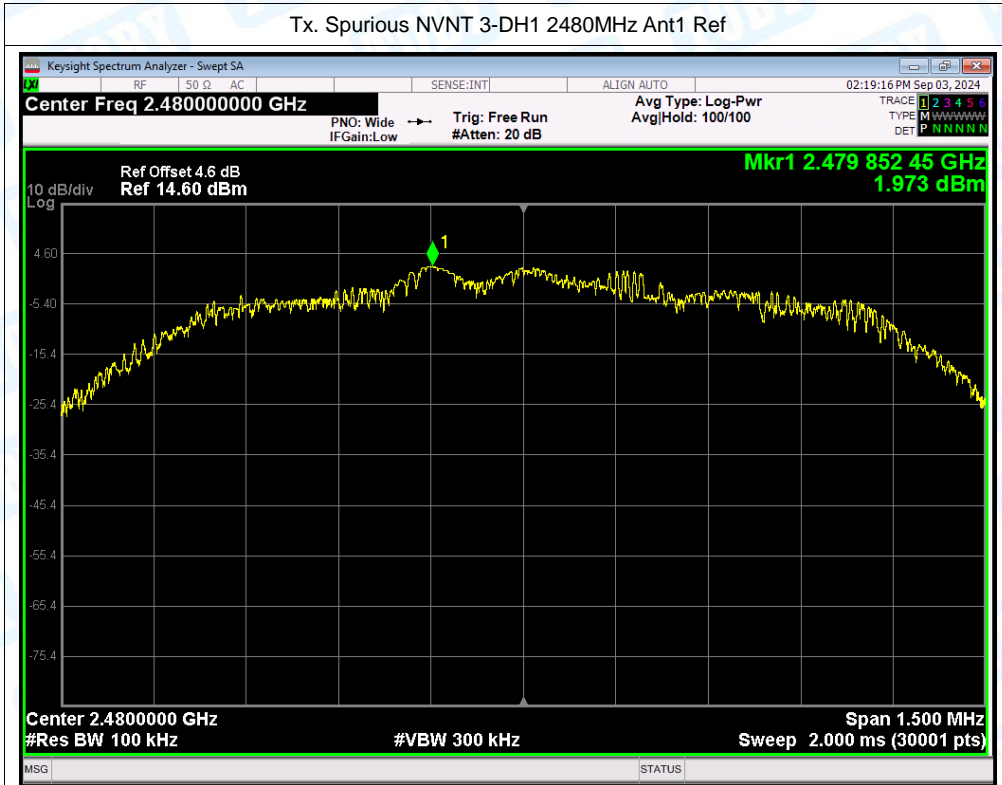
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



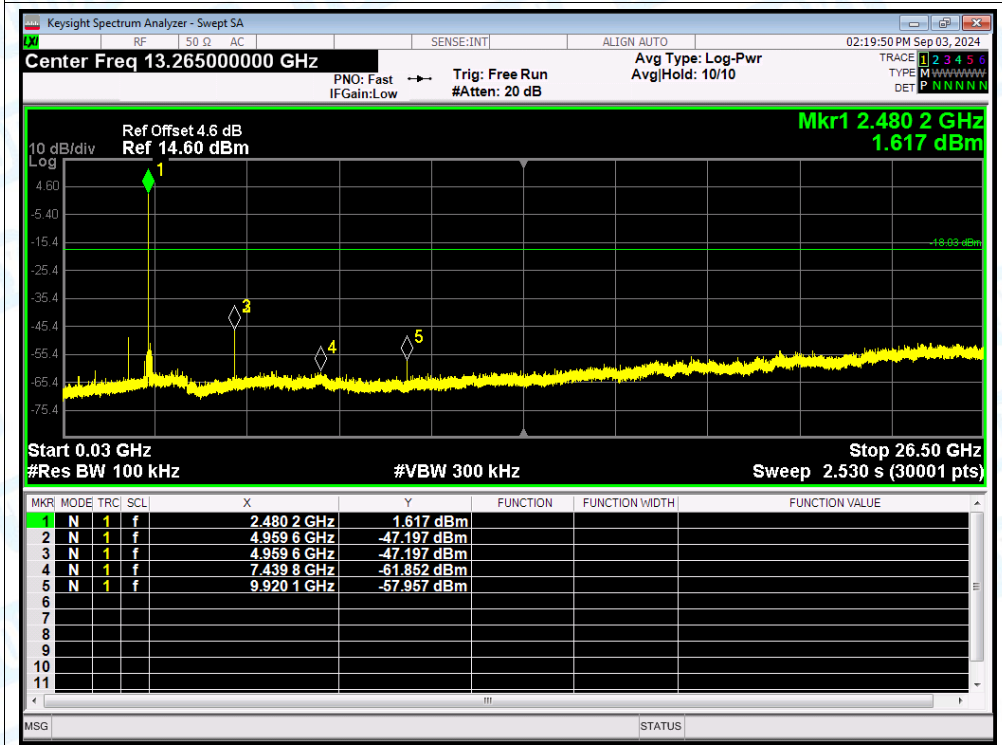
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

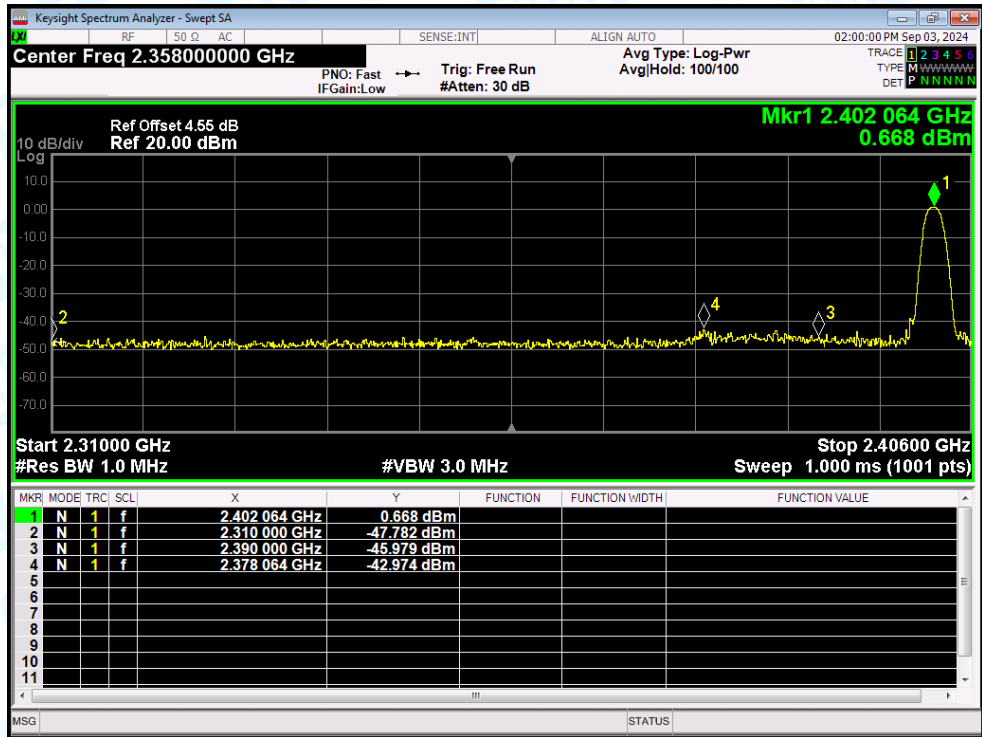


## 8. Restrict Band

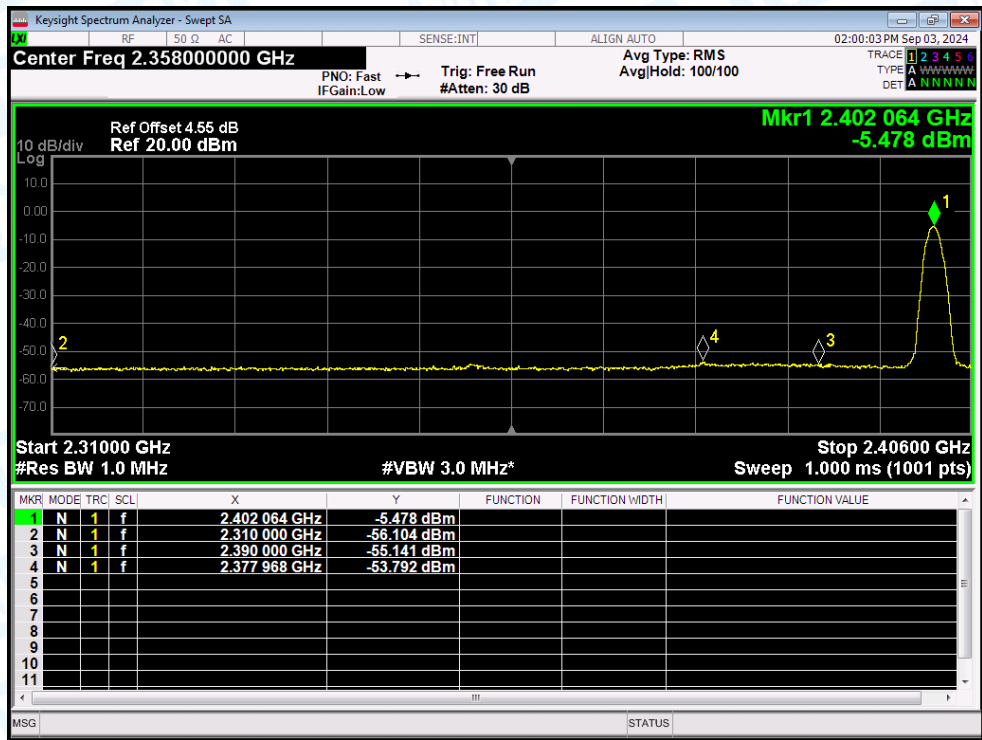
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.78	2	-	49.48	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.1	2	5.17	46.33	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2378.064	-42.97	2	-	54.29	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2377.968	-53.79	2	5.17	48.64	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-45.98	2	-	51.28	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.14	2	5.17	47.29	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.64	2	-	50.62	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.56	2	5.17	46.87	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2493.64	-41.66	2	-	55.6	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2495.32	-53.25	2	5.17	49.18	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-44.26	2	-	53	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.11	2	5.17	48.32	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.45	2	-	49.81	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.56	2	5.06	45.76	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2384.304	-43.13	2	-	54.13	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2384.016	-54.29	2	5.06	48.03	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-48.02	2	-	49.24	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-54.98	2	5.06	47.34	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-48.08	2	-	49.18	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.63	2	5.06	46.69	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.824	-41.19	2	-	56.07	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.68	-53.06	2	5.06	49.26	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-44.83	2	-	52.43	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-53.81	2	5.06	48.51	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.47	2	-	48.79	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.09	2	5.06	46.23	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2353.584	-42.76	2	-	54.5	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2383.056	-53.92	2	5.06	48.4	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.33	2	-	49.93	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-54.73	2	5.06	47.59	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.19	2	-	50.07	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.86	2	5.06	47.46	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2497.624	-40.84	2	-	56.42	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2496.64	-53.02	2	5.06	49.3	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-44.28	2	-	52.98	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-53.78	2	5.06	48.54	Average	54	Pass

Test Graphs

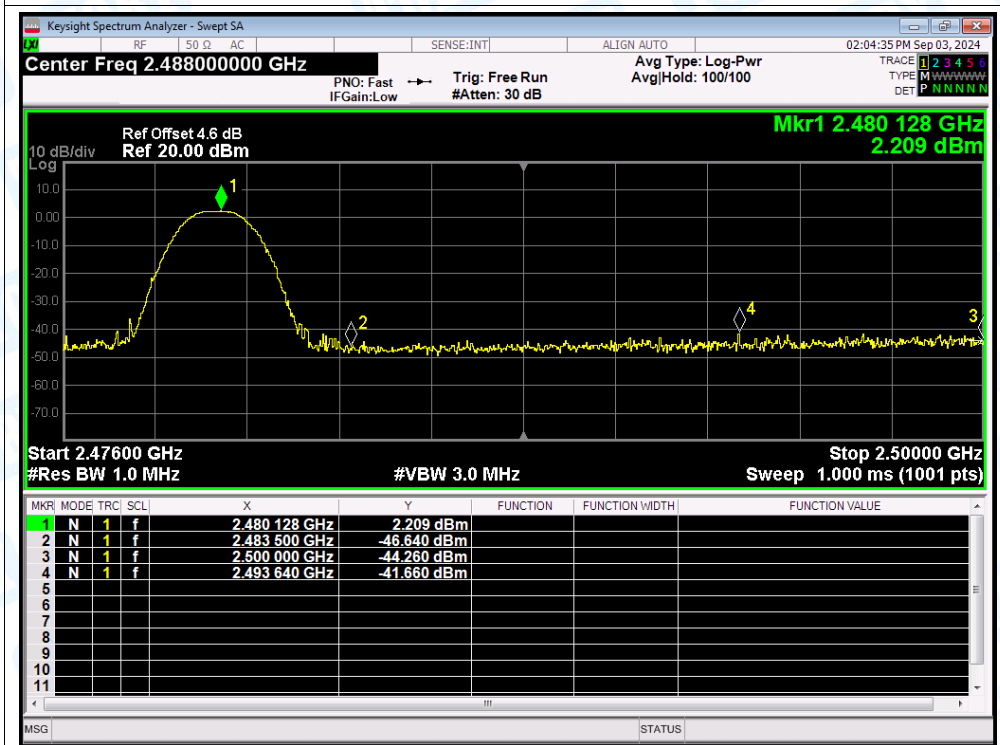
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



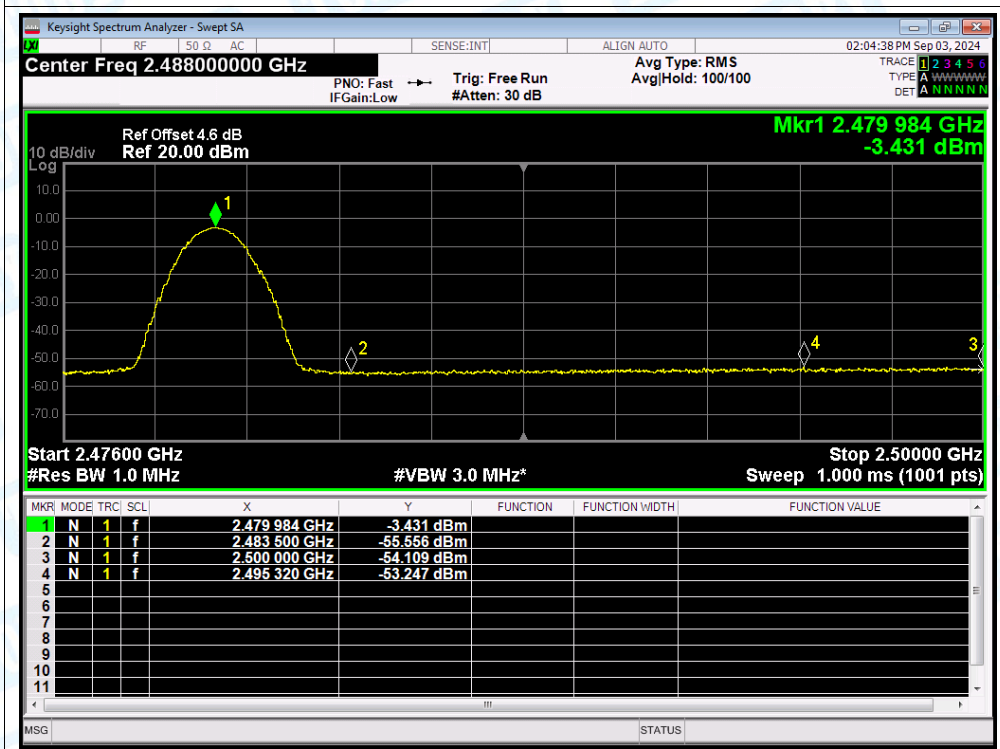
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



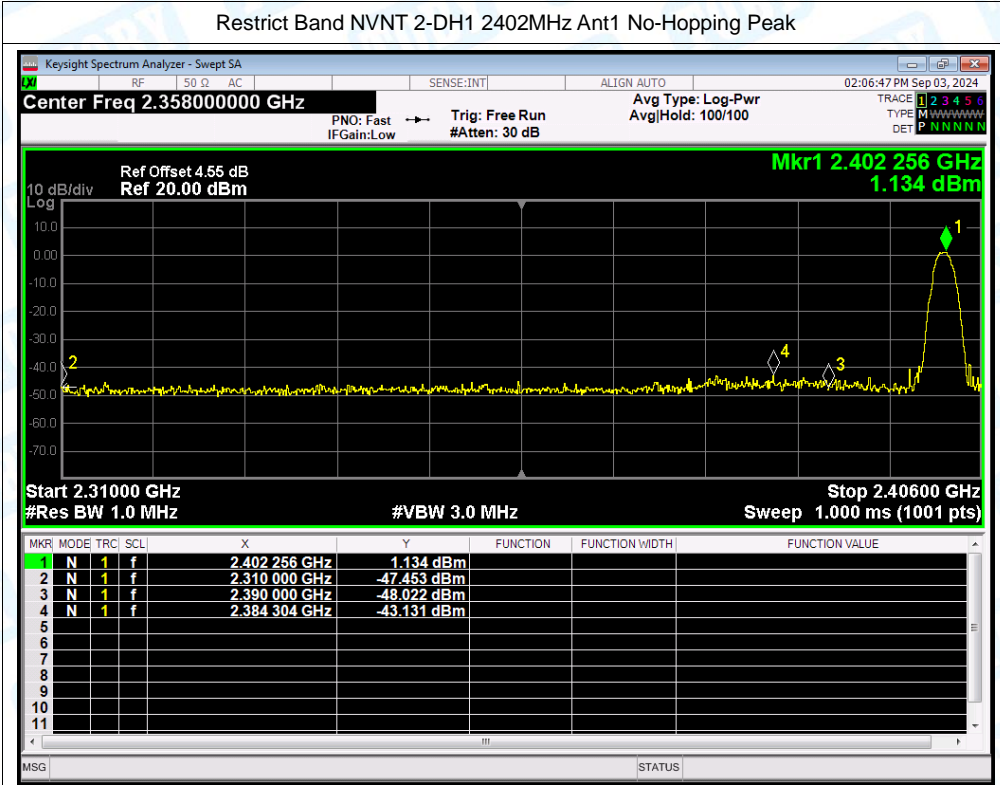
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



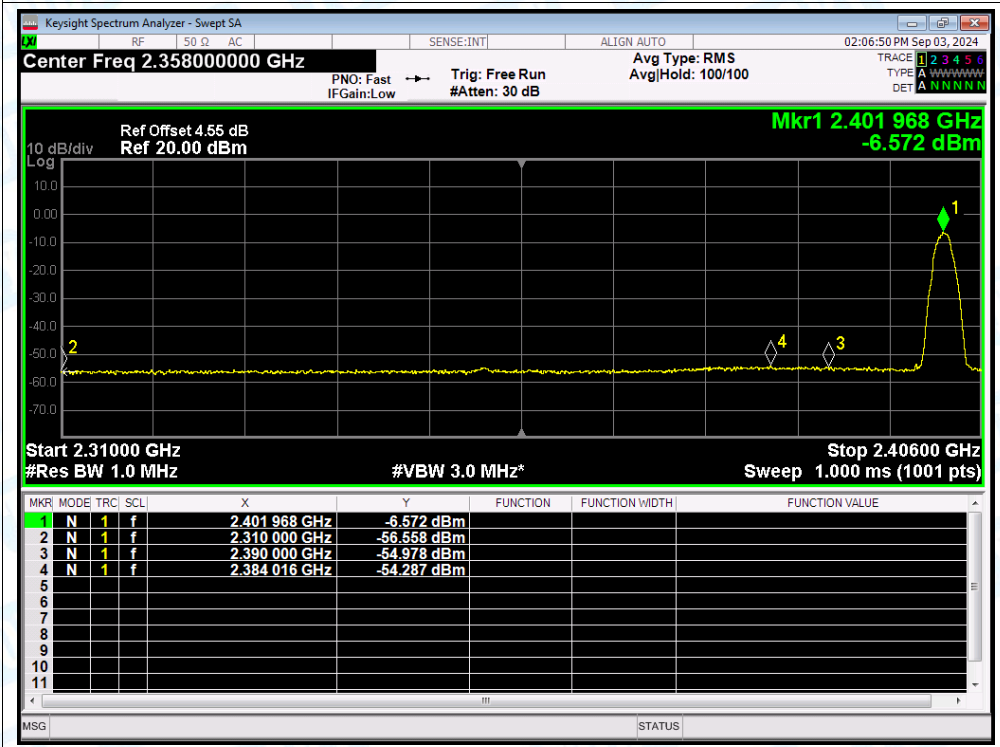
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



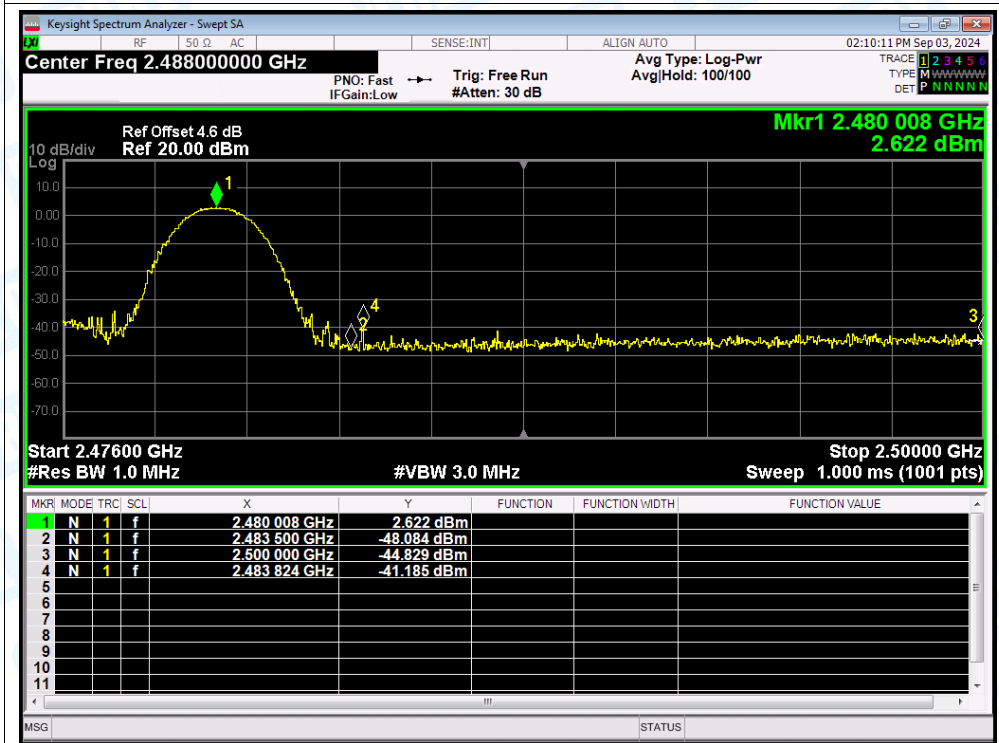
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



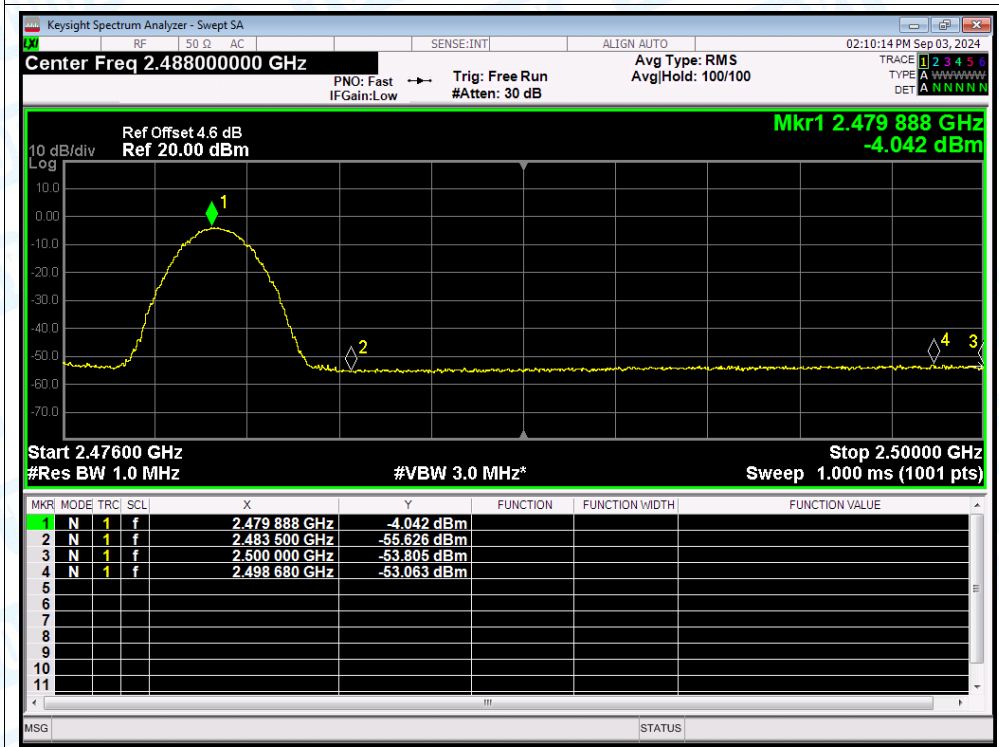
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



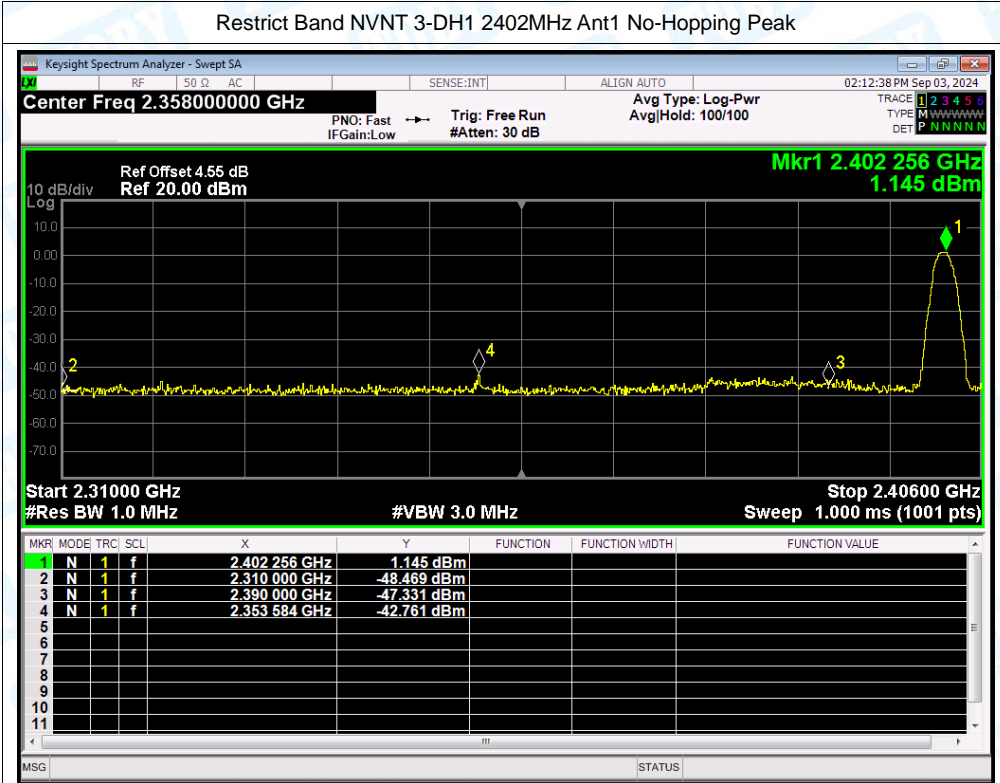
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



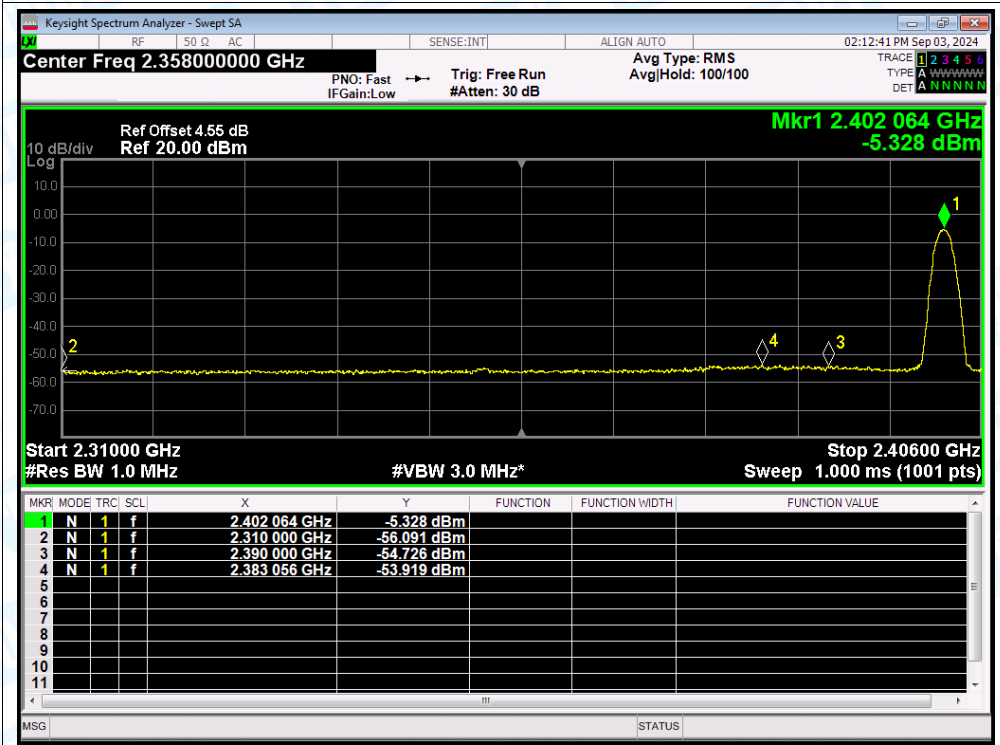
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



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

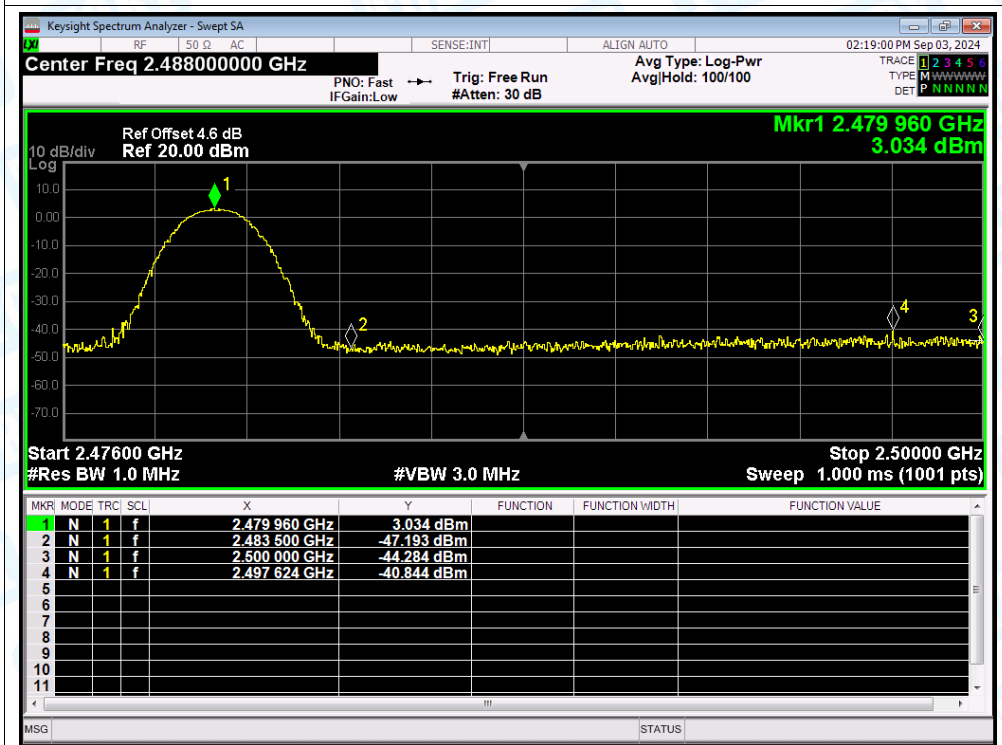


Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average

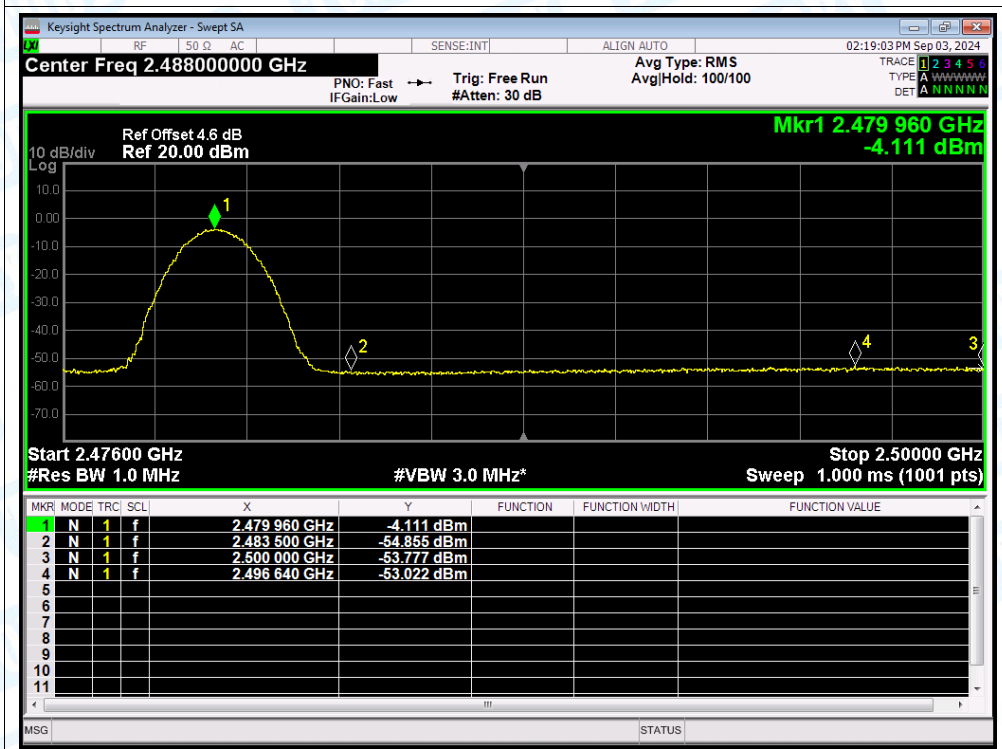




Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak



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

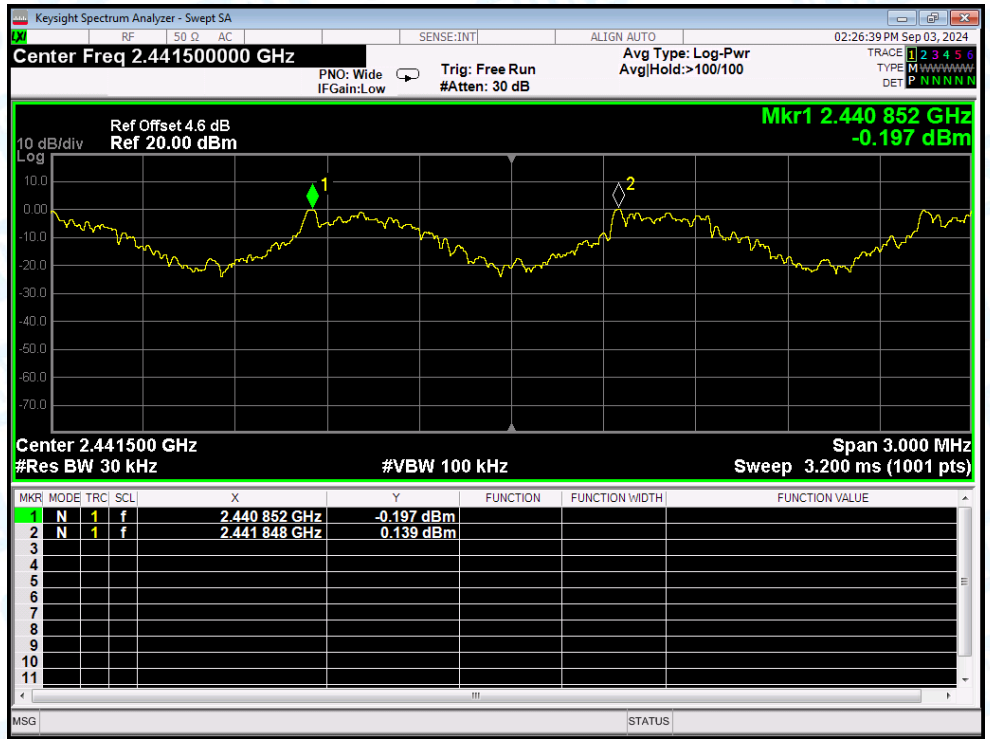


## 9. Carrier Frequencies Separation

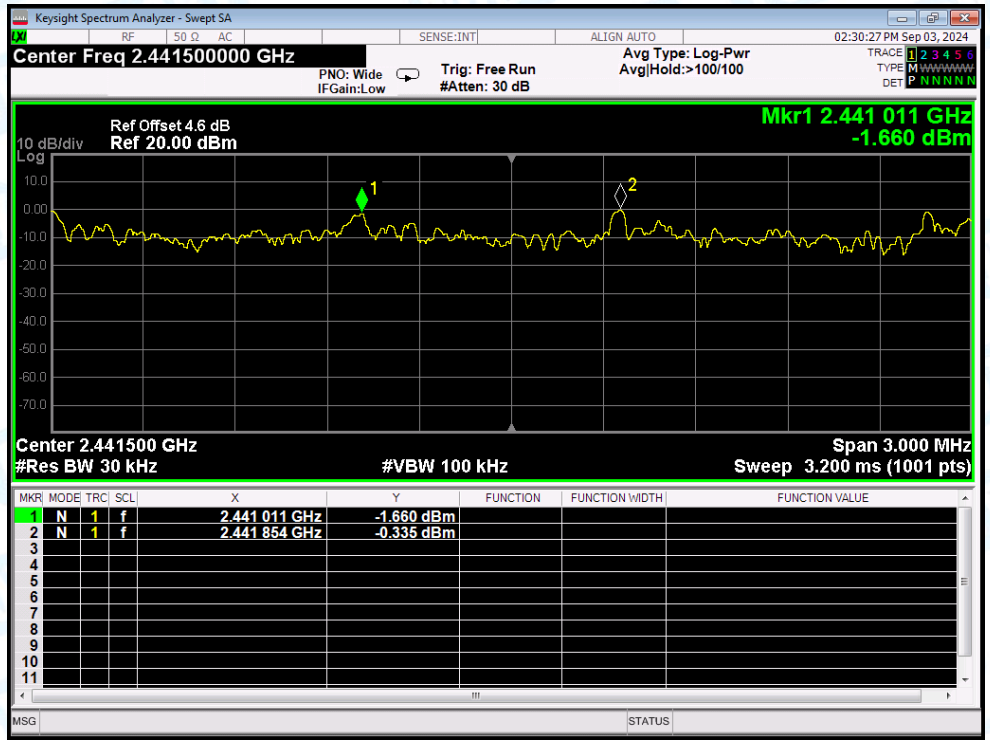
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.852	2441.848	0.996	0.025	Pass
NVNT	2-DH1	Ant1	2441.011	2441.854	0.843	0.025	Pass
NVNT	3-DH1	Ant1	2441.008	2441.848	0.84	0.025	Pass

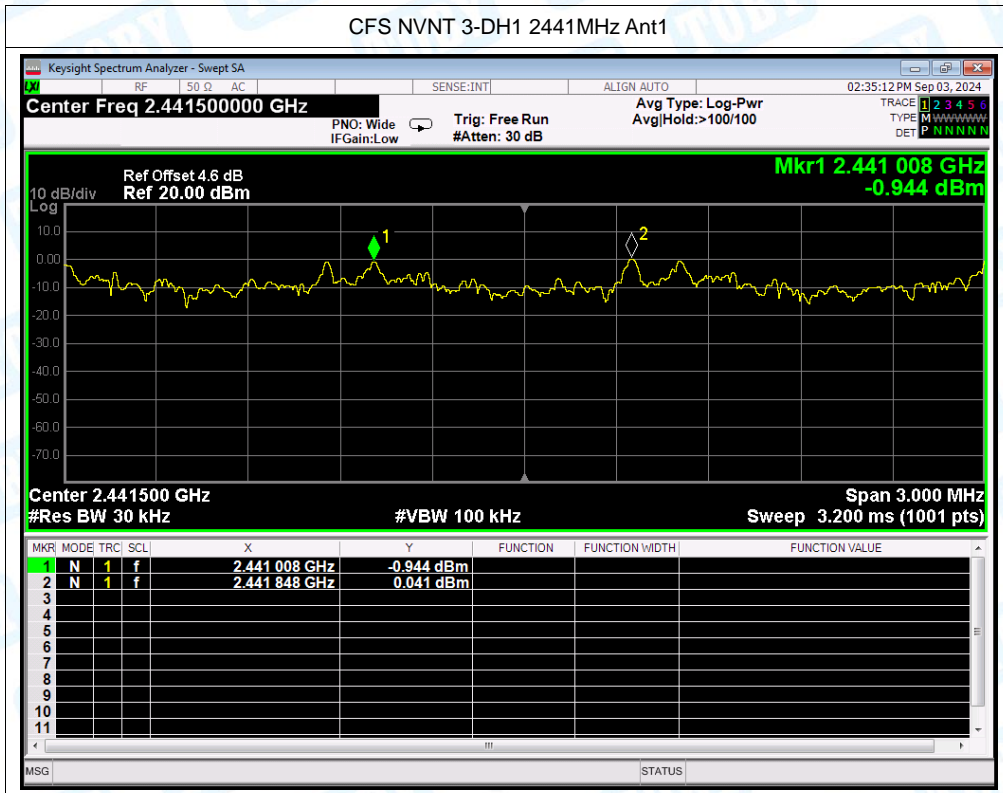
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



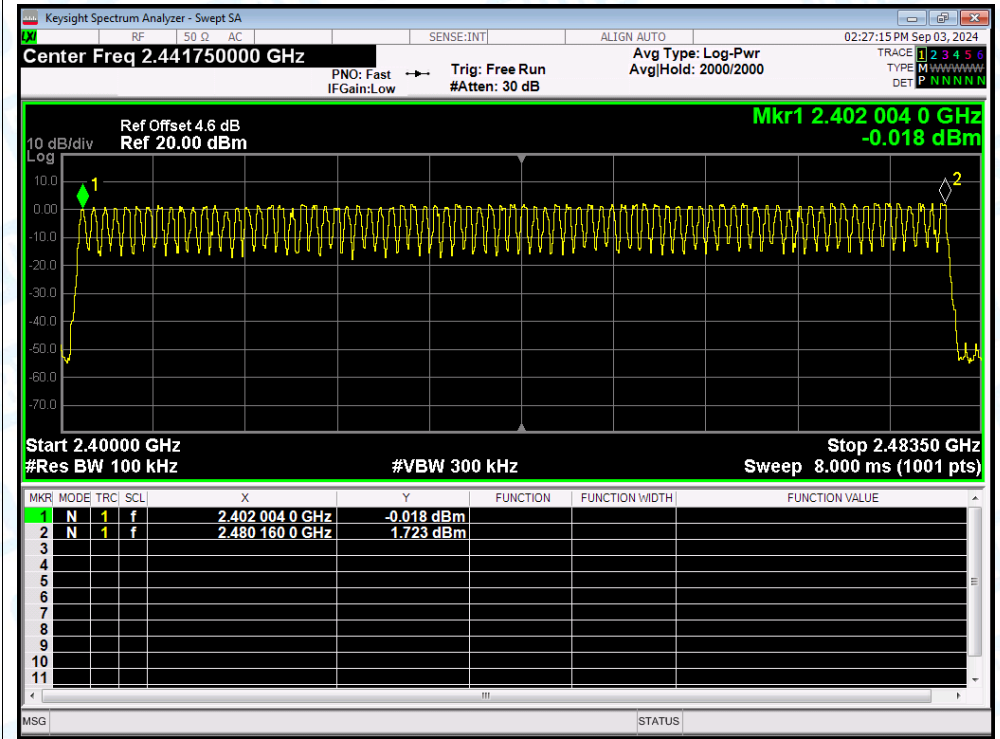


## 10. Number of Hopping Channel

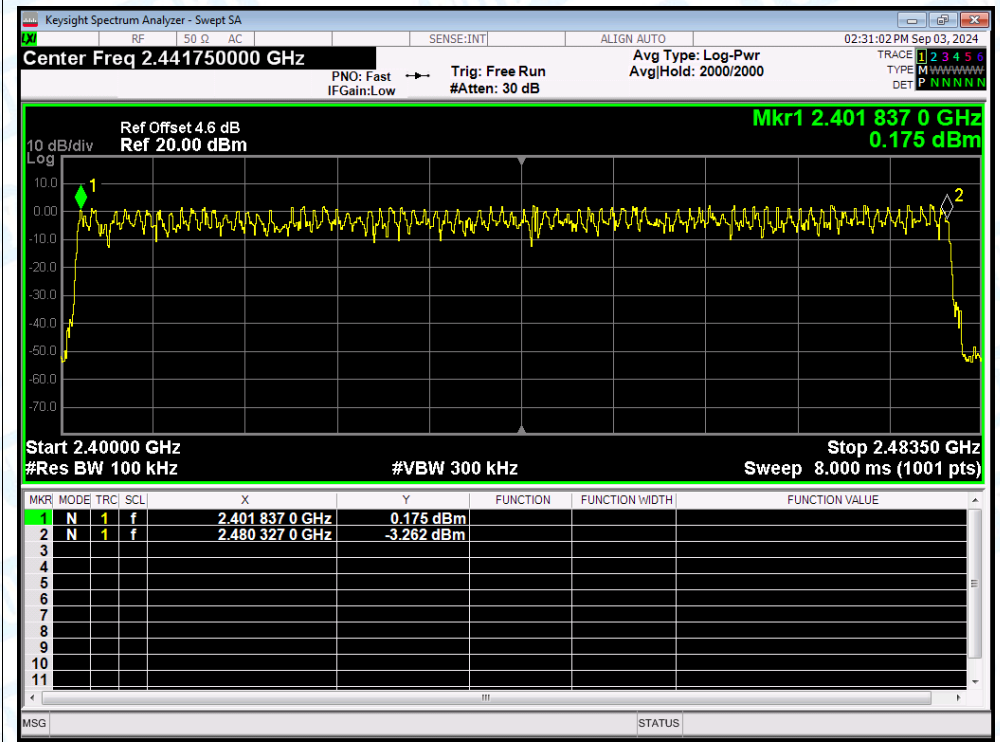
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

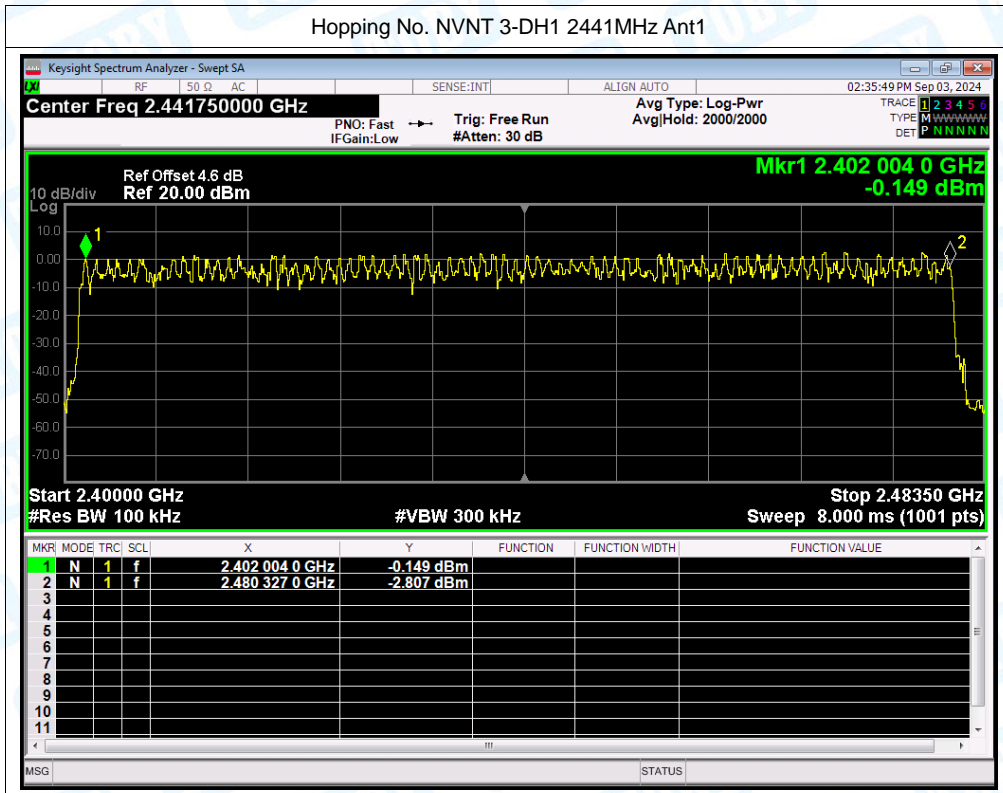
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1





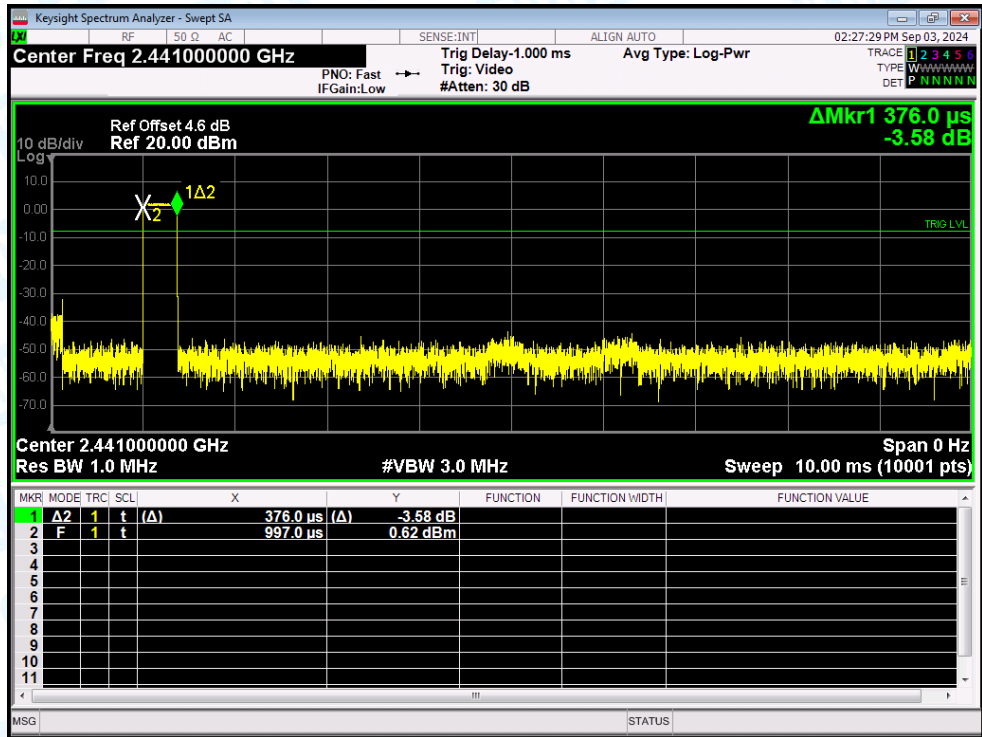
## 11. Dwell Time

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	0.387	123.84	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

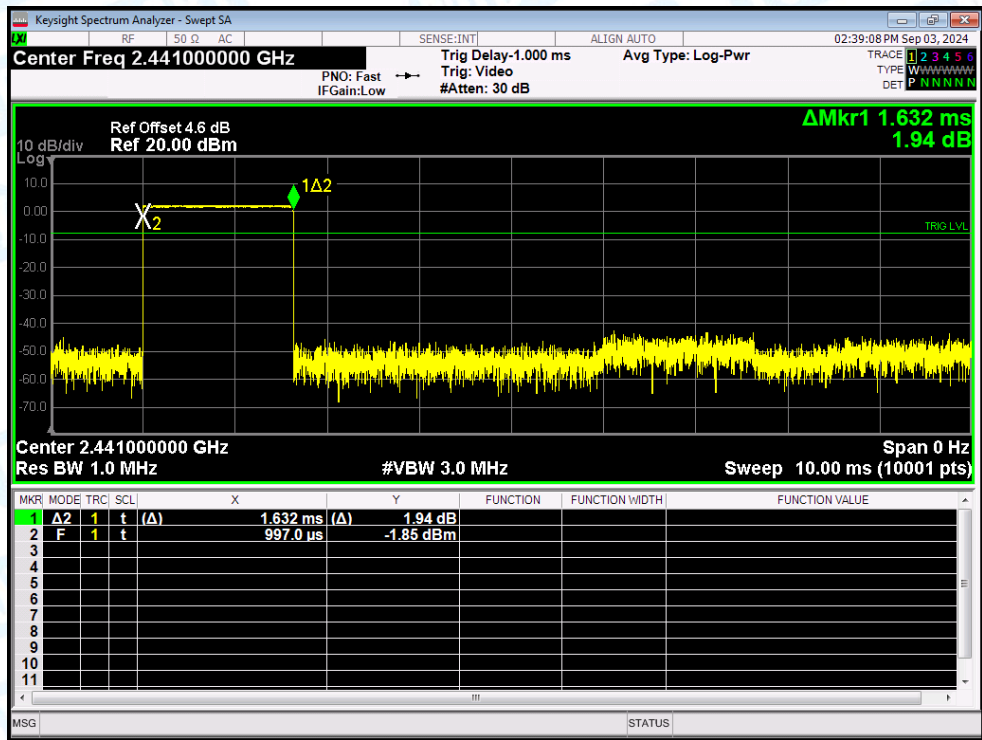


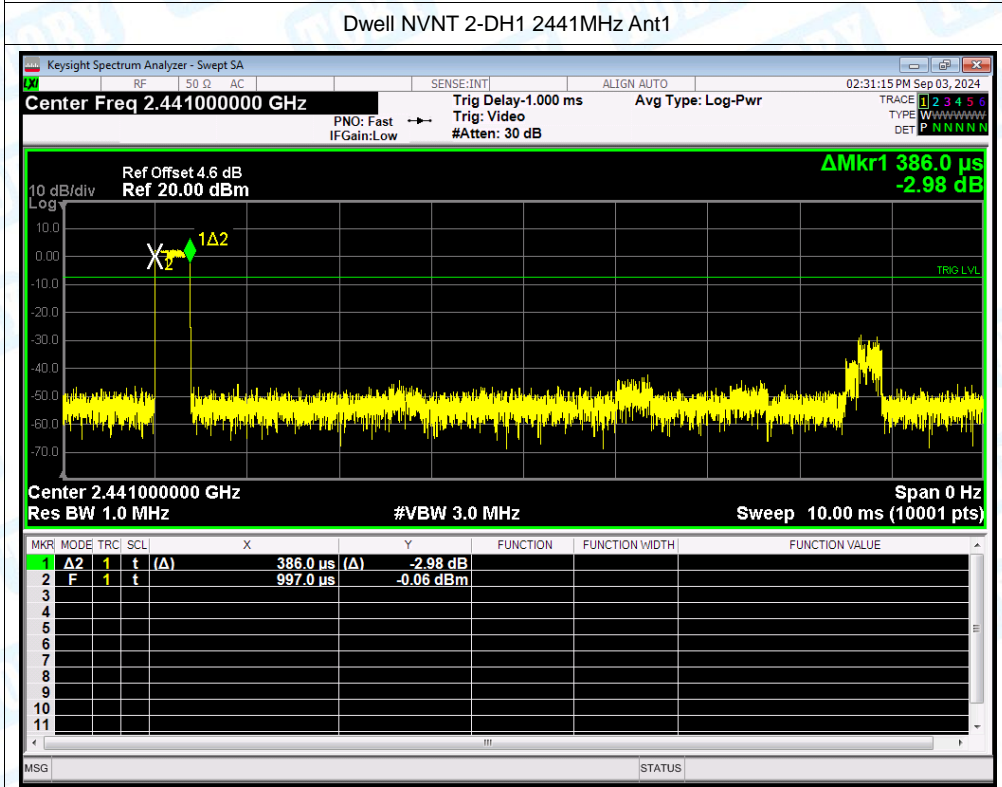
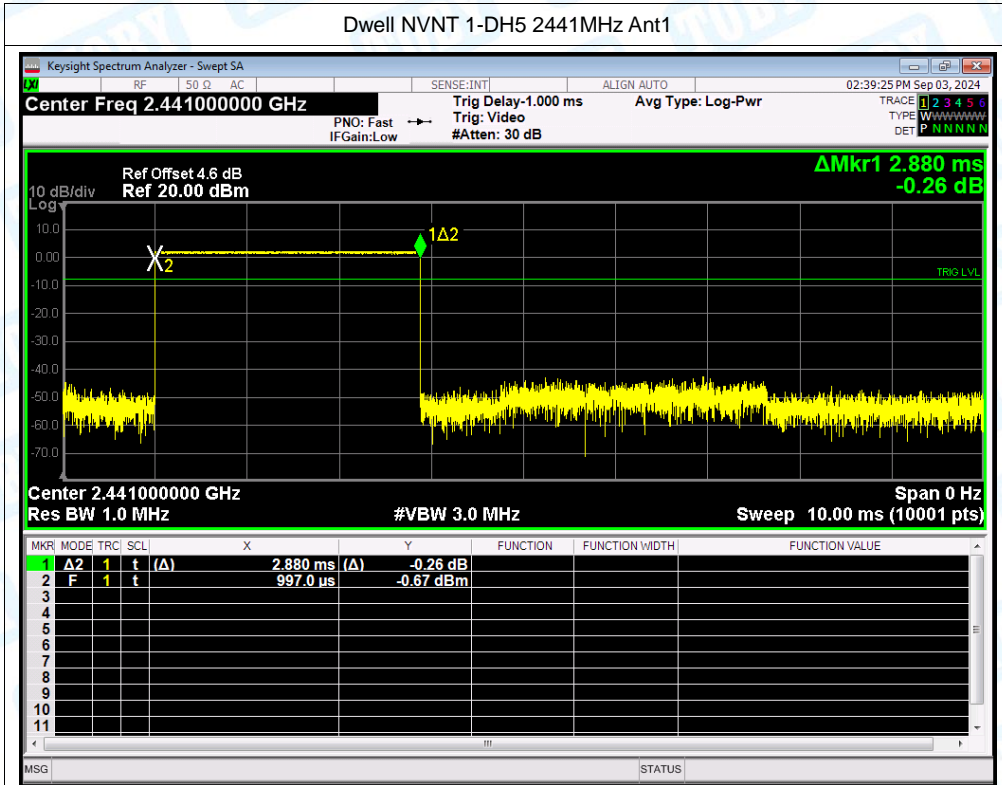
Test Graphs

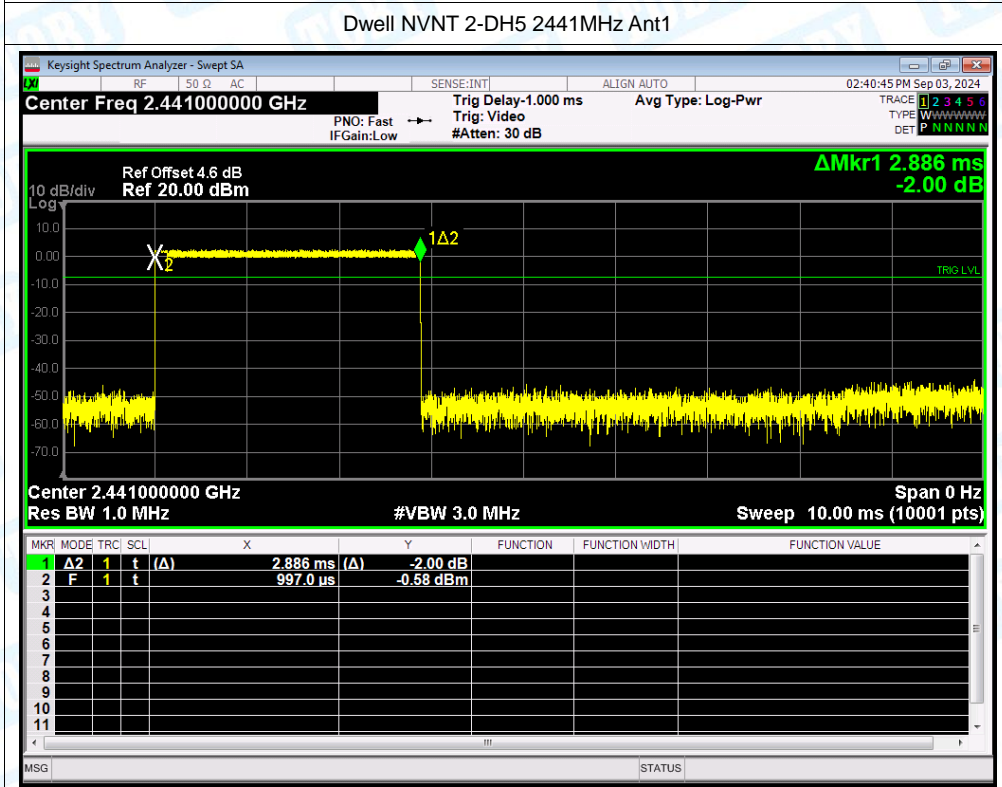
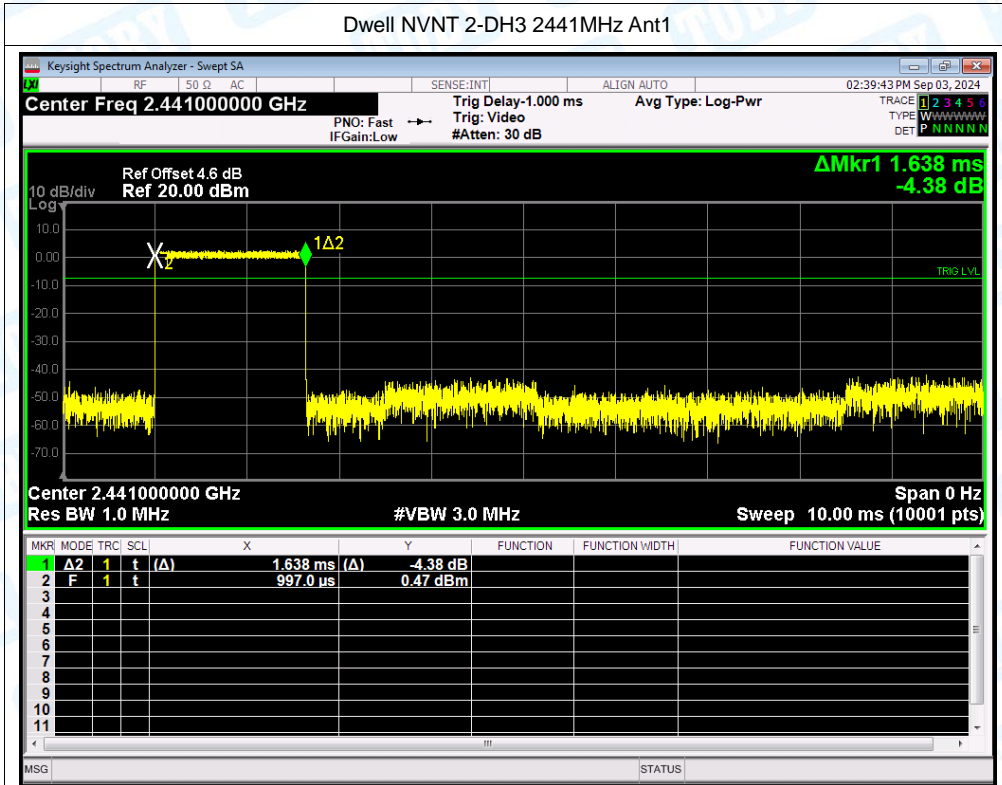
Dwell NVNT 1-DH1 2441MHz Ant1

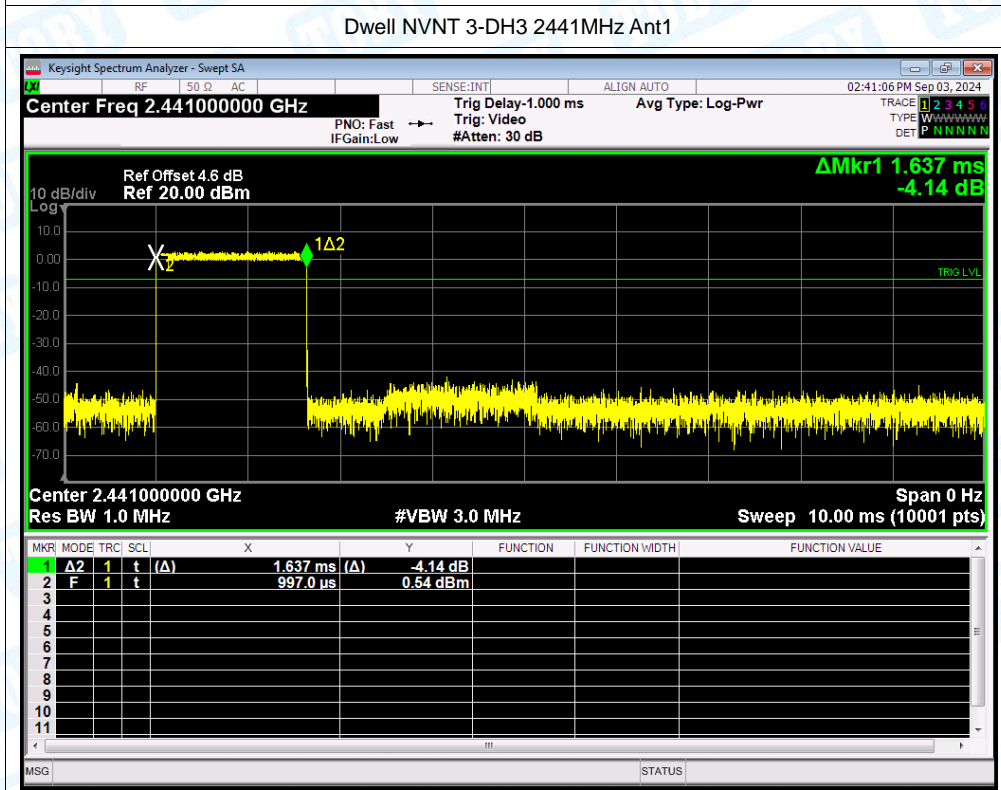
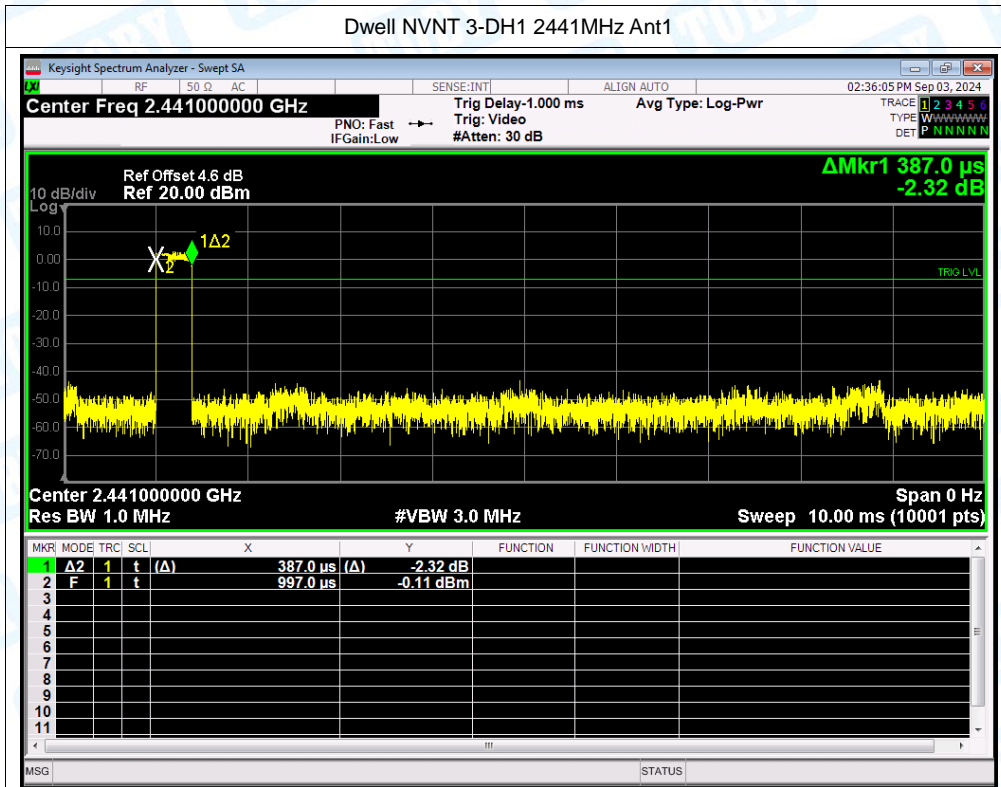


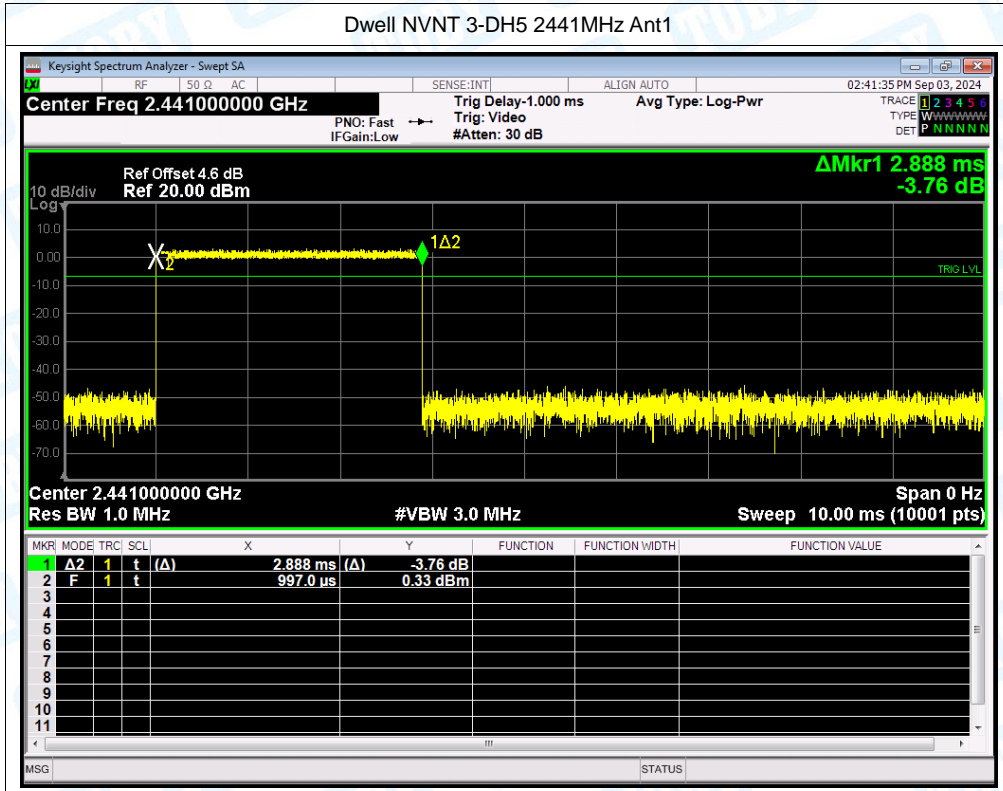
Dwell NVNT 1-DH3 2441MHz Ant1











---- END OF REPORT ----