

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet PC
Test Model:	K10
Sample ID:	HC-C-202504-0232-01-01#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202504-0232-51 The report only show the worst case data.	

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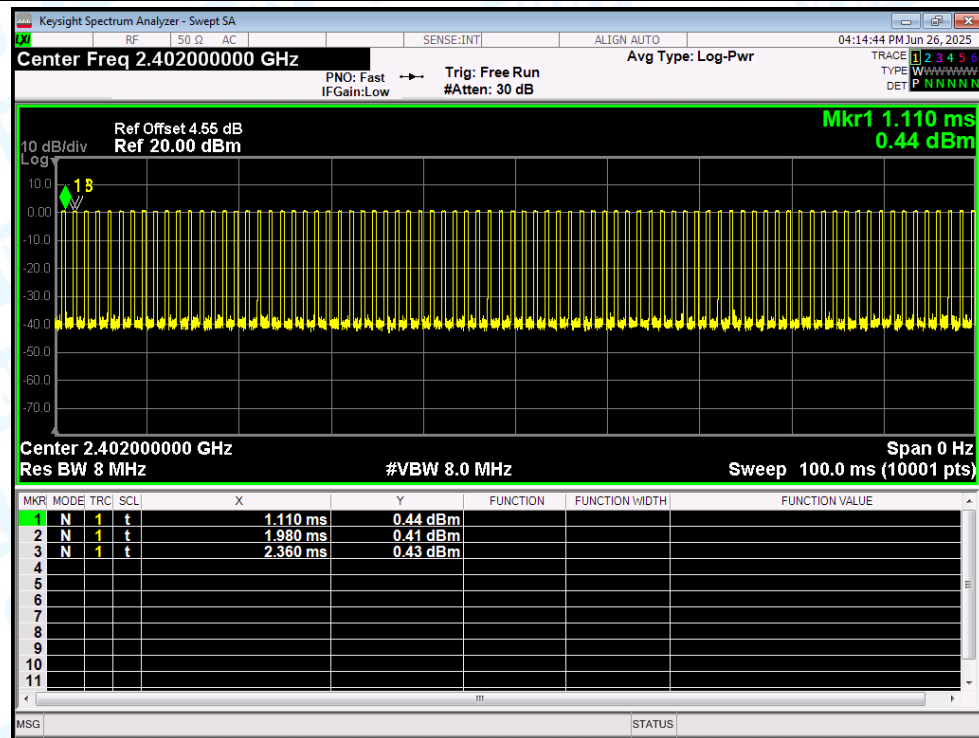
1.Duty Cycle

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

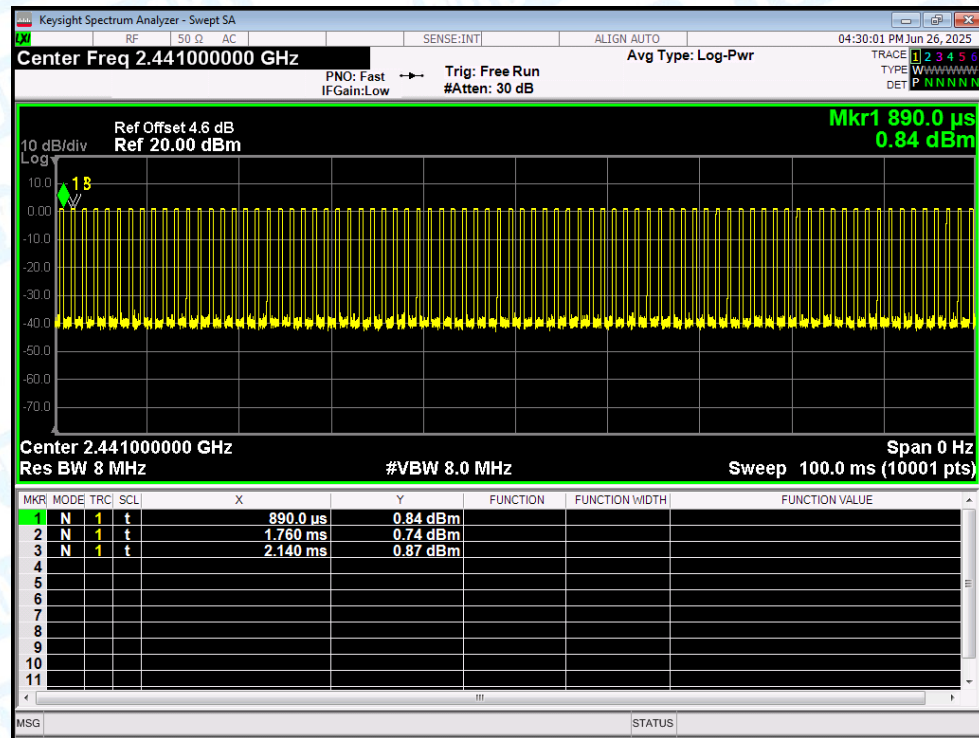
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

Test Graphs

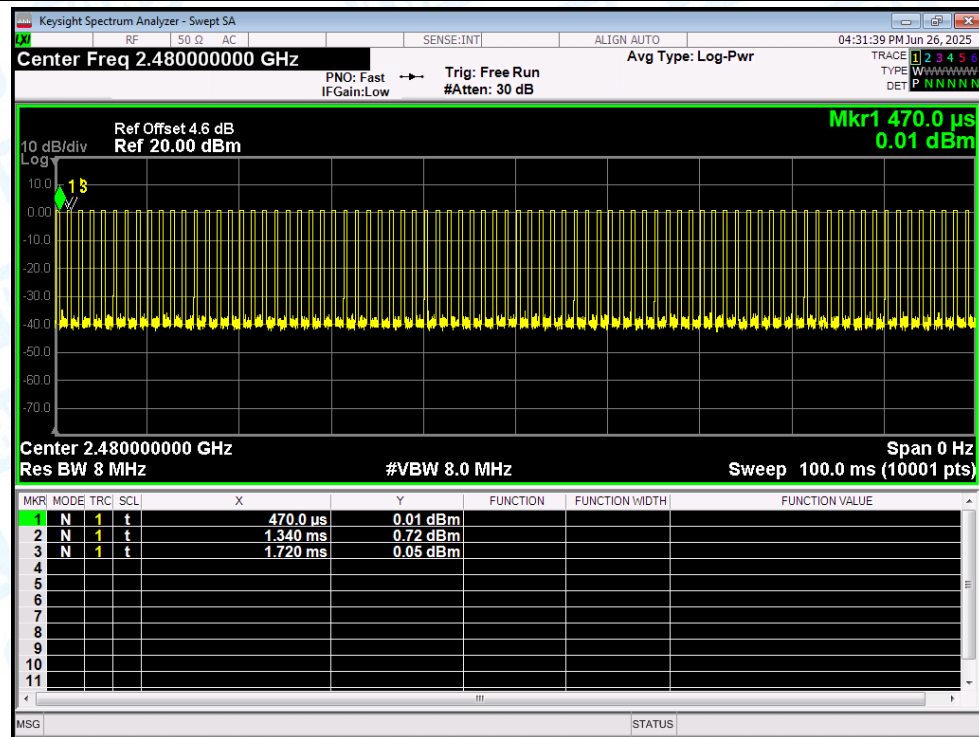
Duty Cycle NVNT 1-DH1 2402MHz Ant1



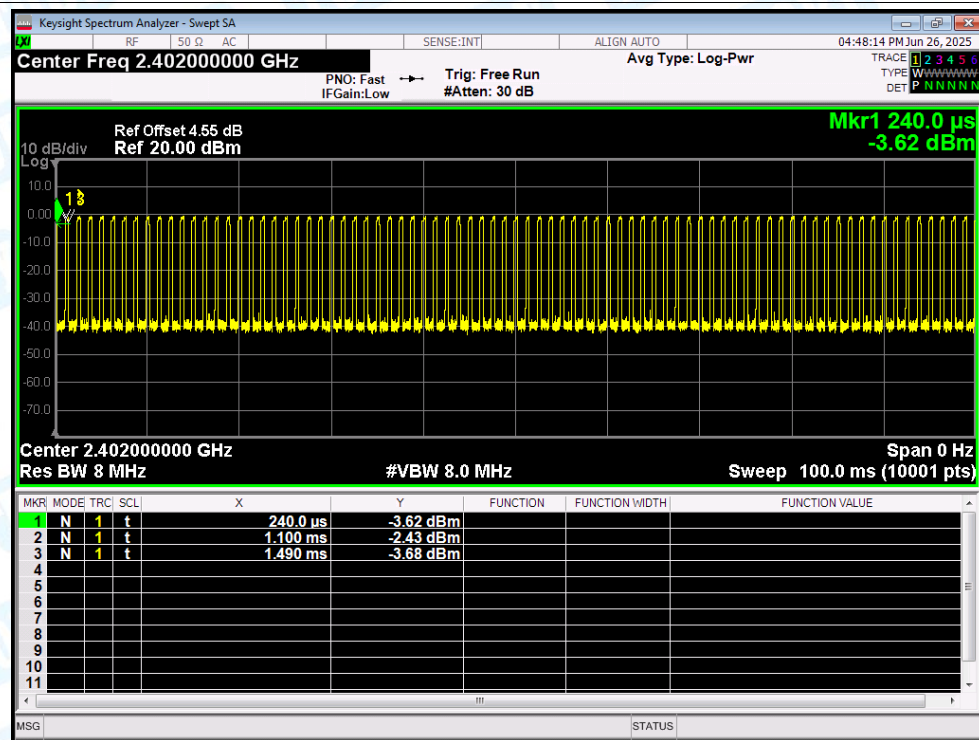
Duty Cycle NVNT 1-DH1 2441MHz Ant1



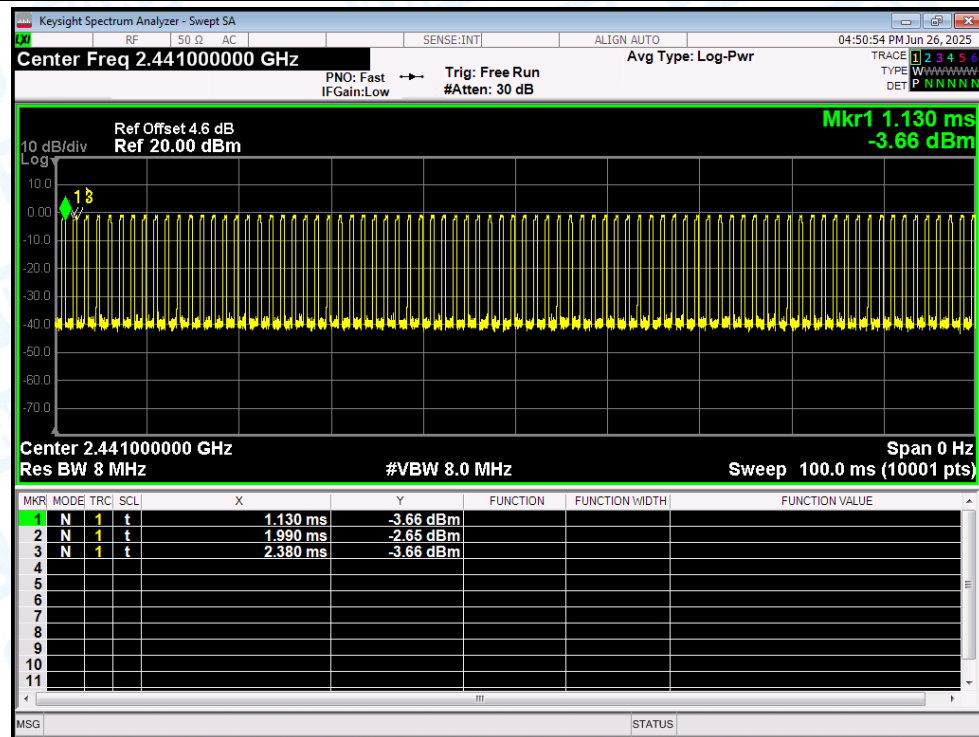
Duty Cycle NVNT 1-DH1 2480MHz Ant1



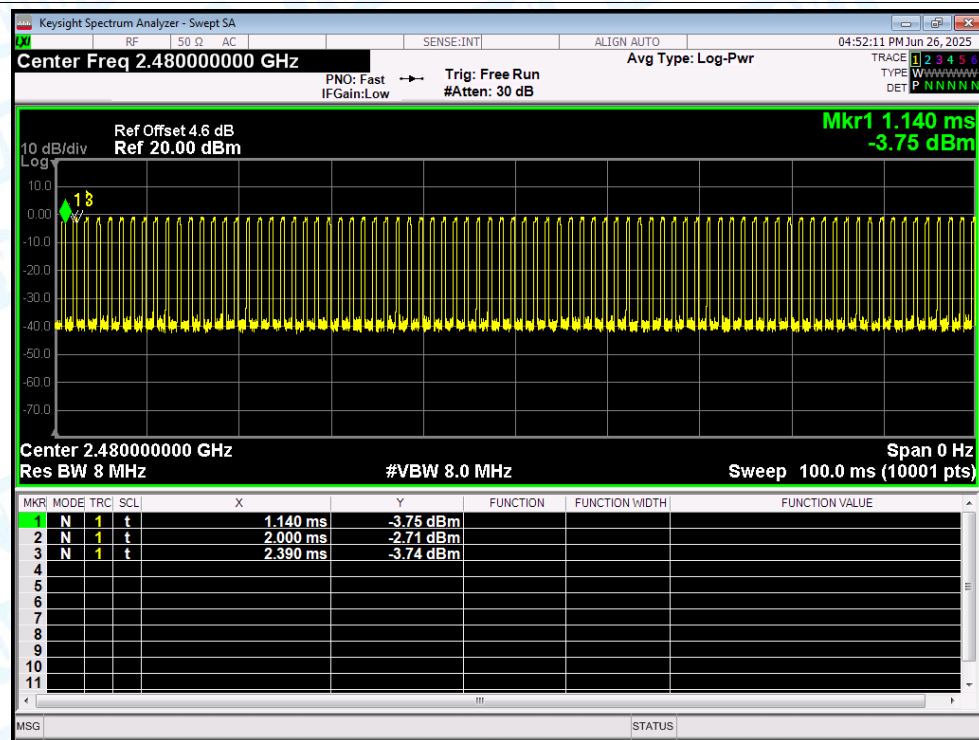
Duty Cycle NVNT 2-DH1 2402MHz Ant1



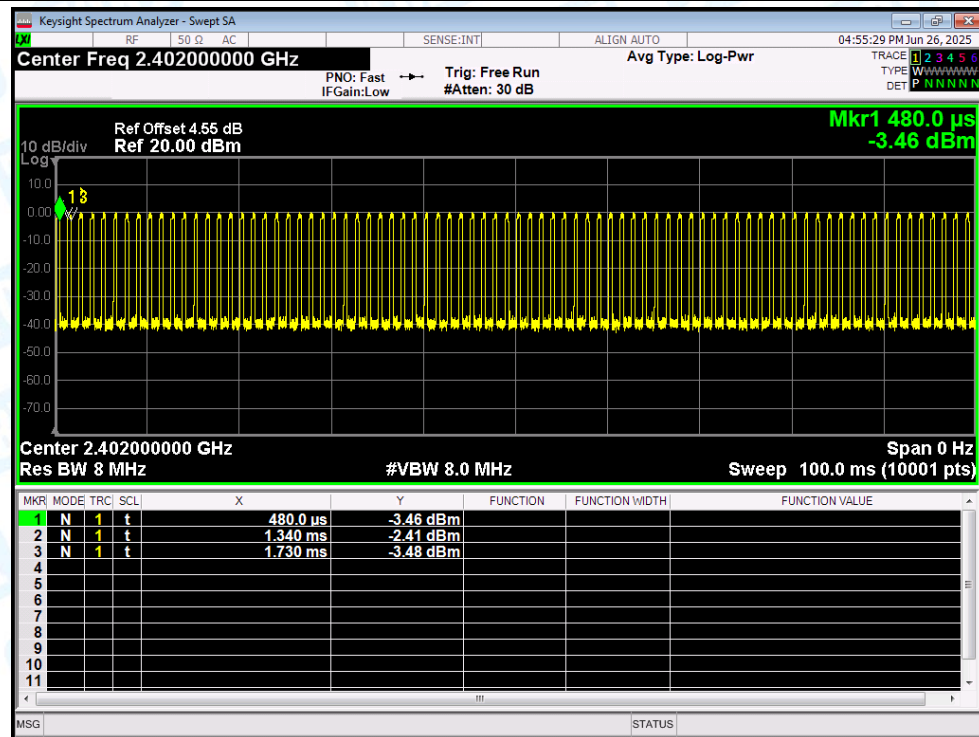
Duty Cycle NVNT 2-DH1 2441MHz Ant1



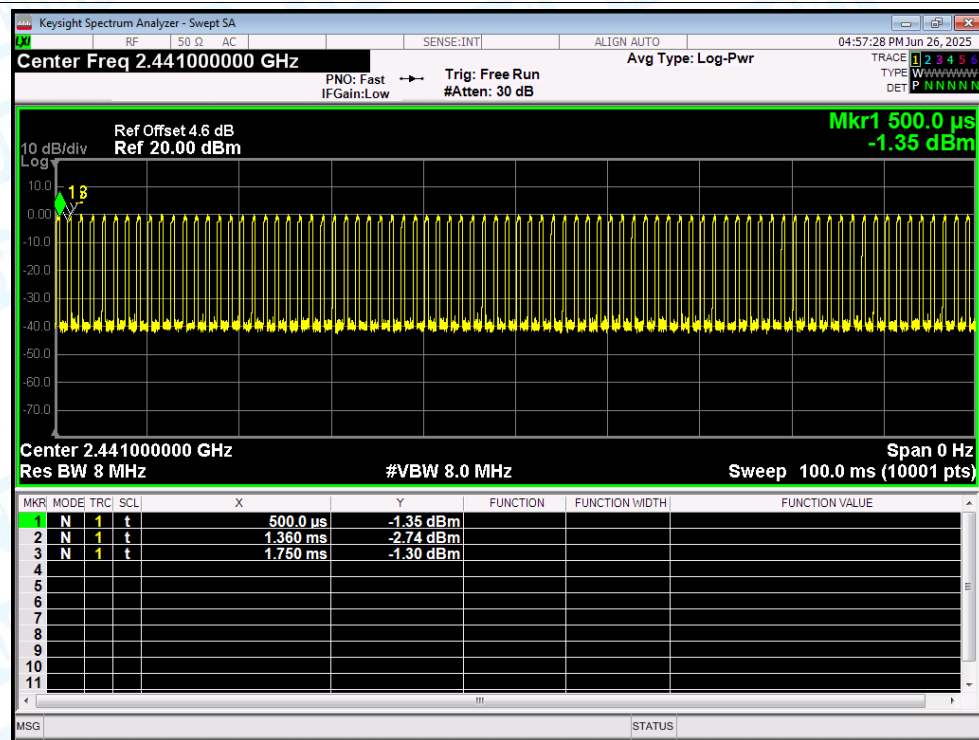
Duty Cycle NVNT 2-DH1 2480MHz Ant1

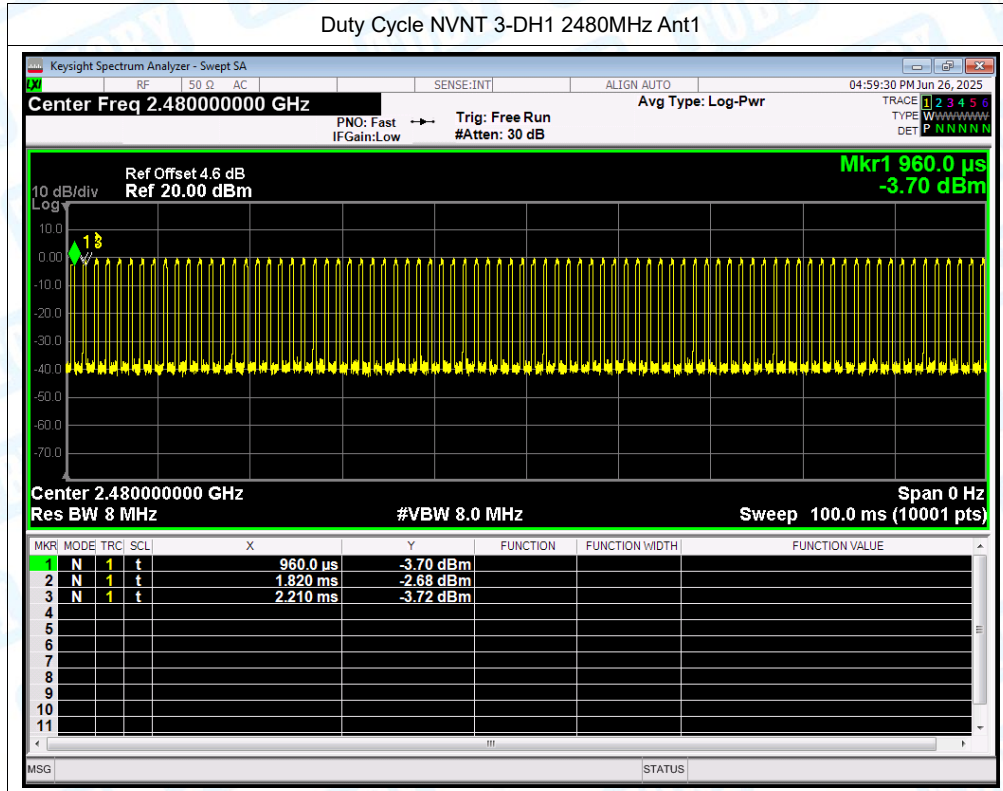


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1





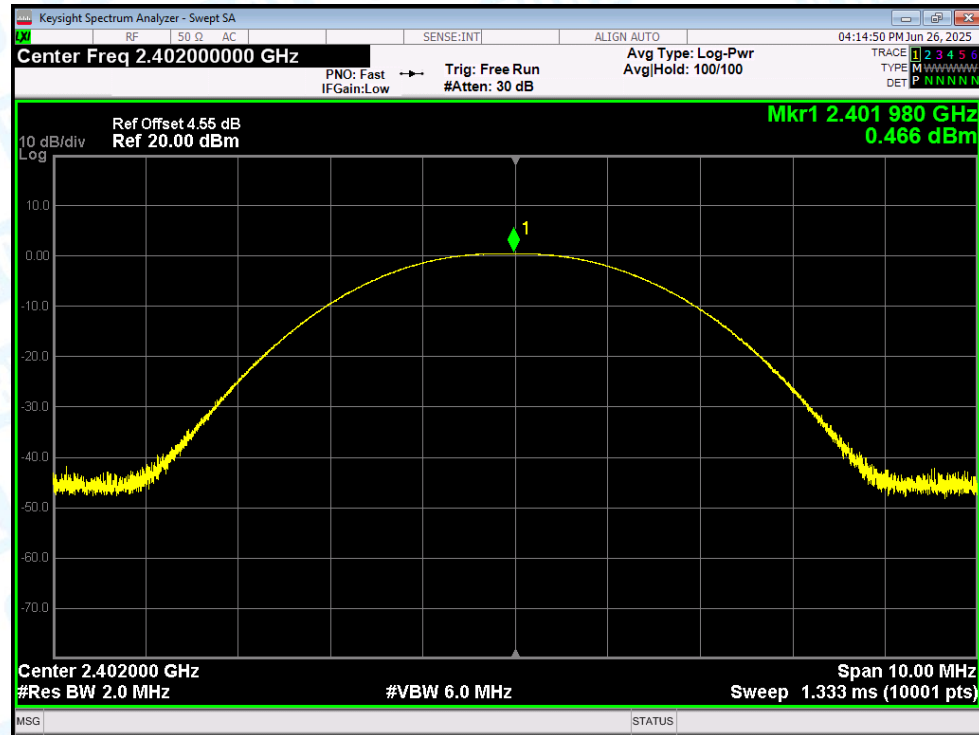
2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	0.466	21	2.066	36	Pass
NVNT	1-DH1	2441	Ant1	0.854	21	2.454	36	Pass
NVNT	1-DH1	2480	Ant1	0.773	21	2.373	36	Pass
NVNT	2-DH1	2402	Ant1	-1.055	21	0.545	36	Pass
NVNT	2-DH1	2441	Ant1	-1.222	21	0.378	36	Pass
NVNT	2-DH1	2480	Ant1	-1.303	21	0.297	36	Pass
NVNT	3-DH1	2402	Ant1	-0.091	21	1.509	36	Pass
NVNT	3-DH1	2441	Ant1	-0.258	21	1.342	36	Pass
NVNT	3-DH1	2480	Ant1	-0.344	21	1.256	36	Pass

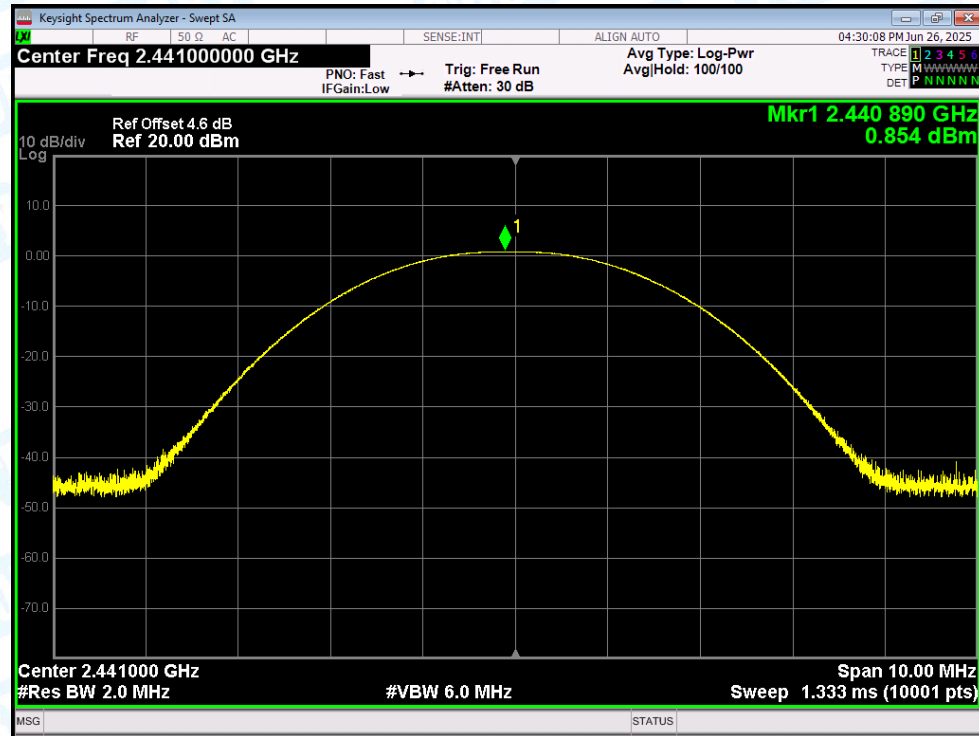
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

Test Graphs

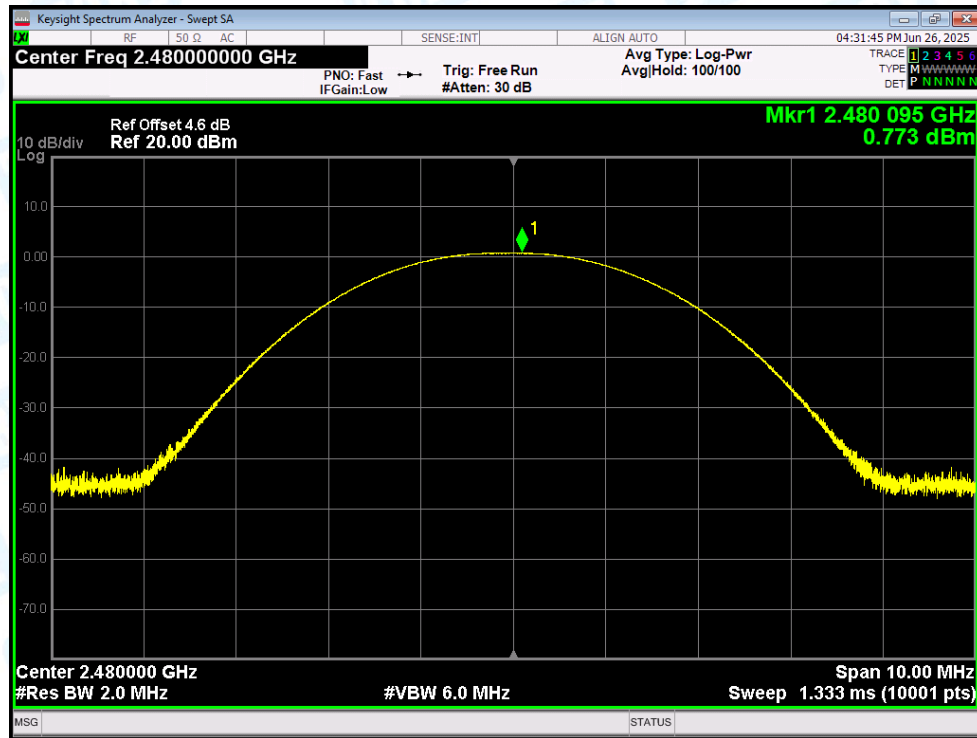
Power NVNT 1-DH1 2402MHz Ant1



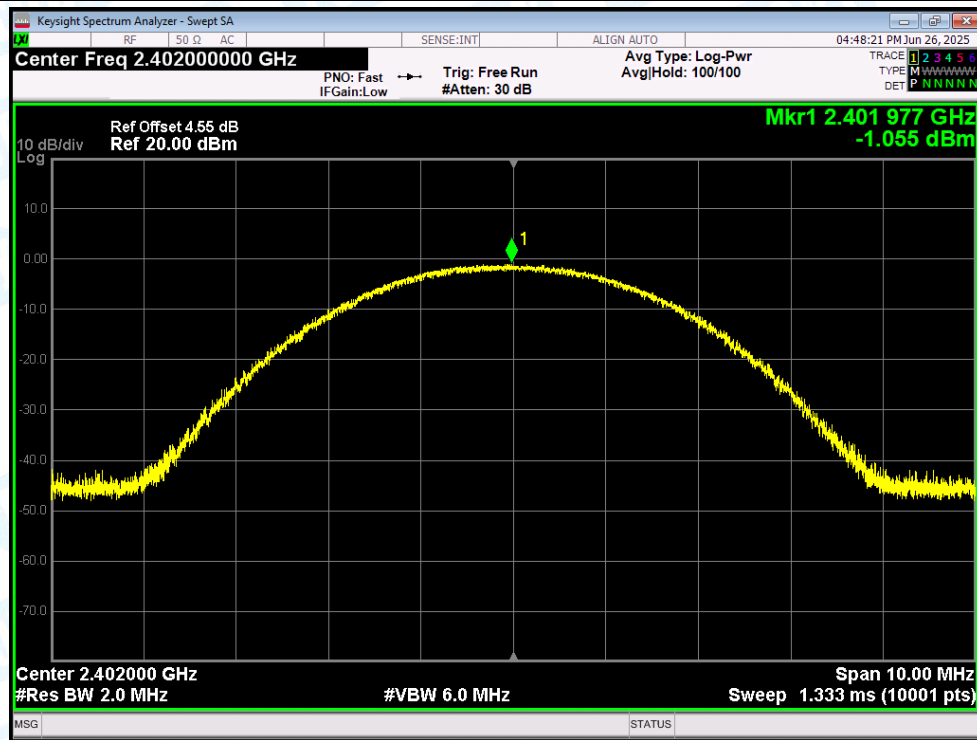
Power NVNT 1-DH1 2441MHz Ant1



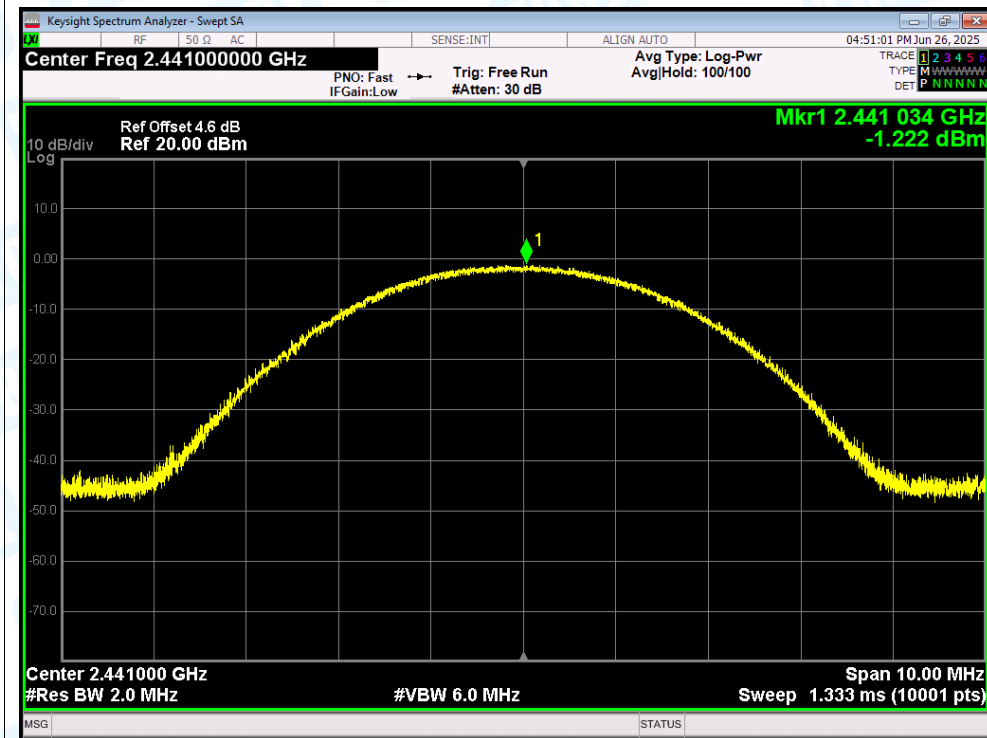
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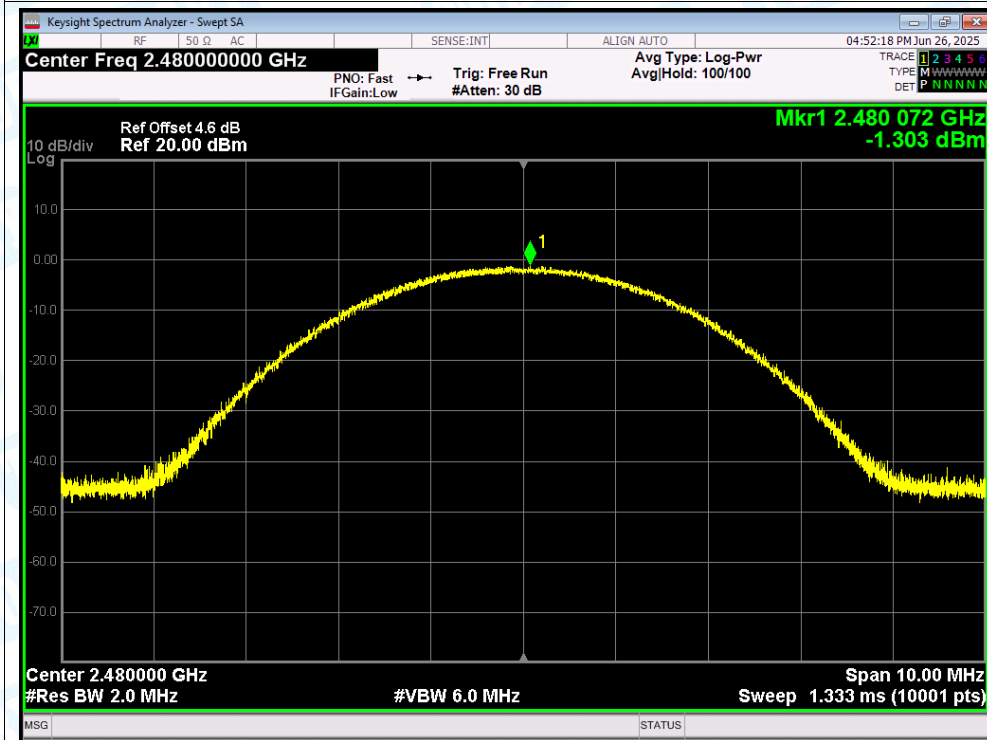
Power NVNT 2-DH1 2402MHz Ant1



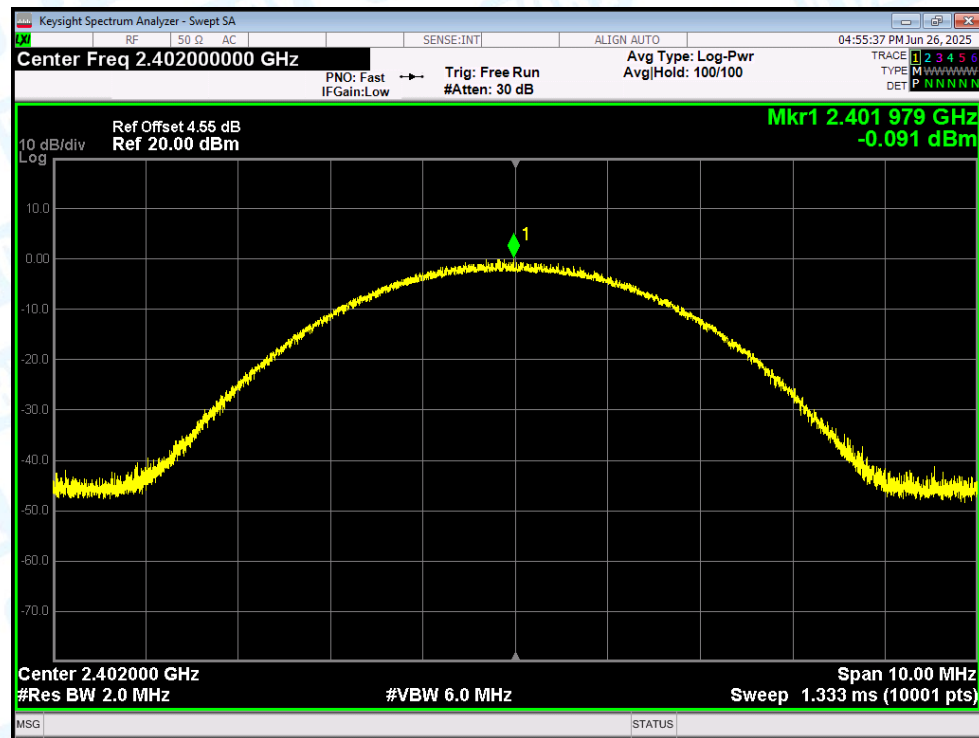
Power NVNT 2-DH1 2441MHz Ant1



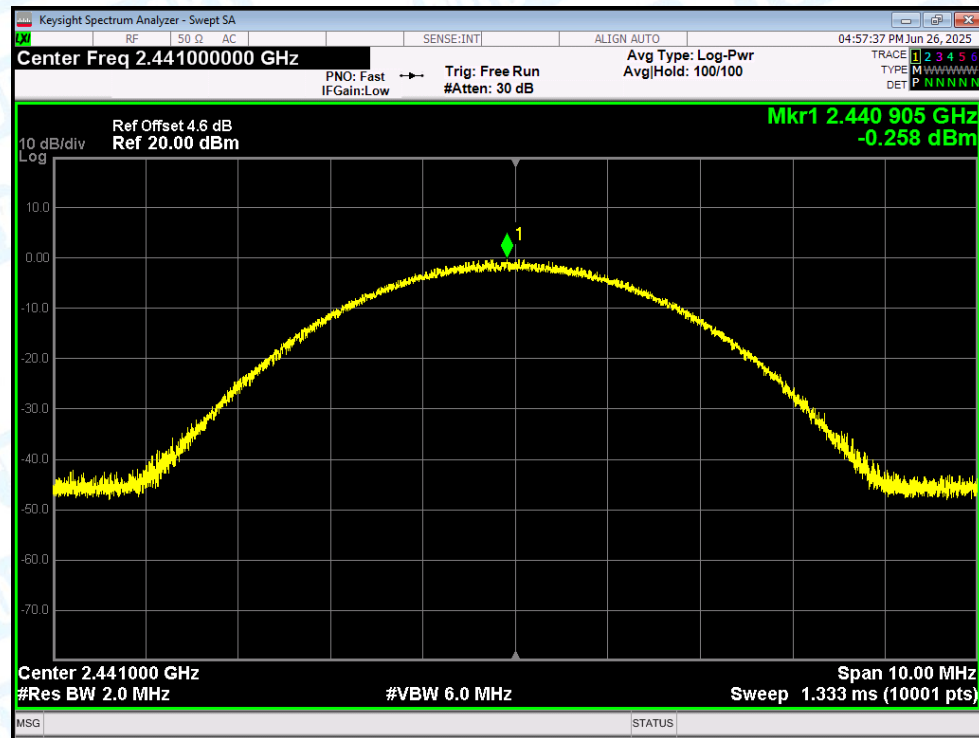
Power NVNT 2-DH1 2480MHz Ant1

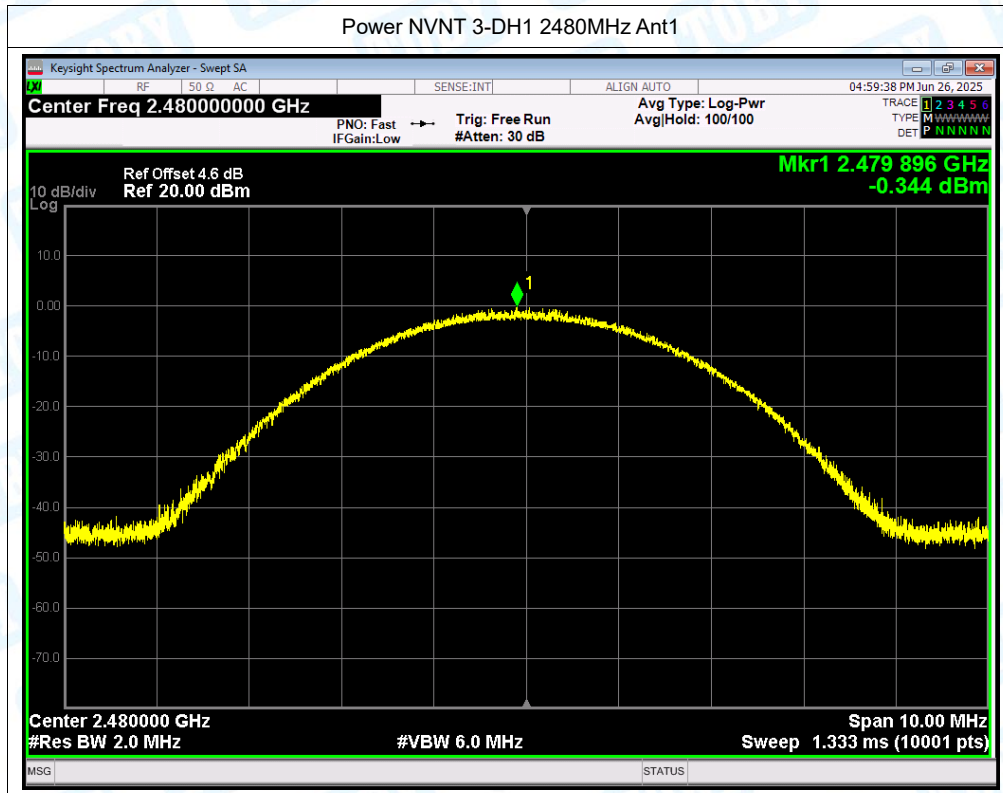


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1





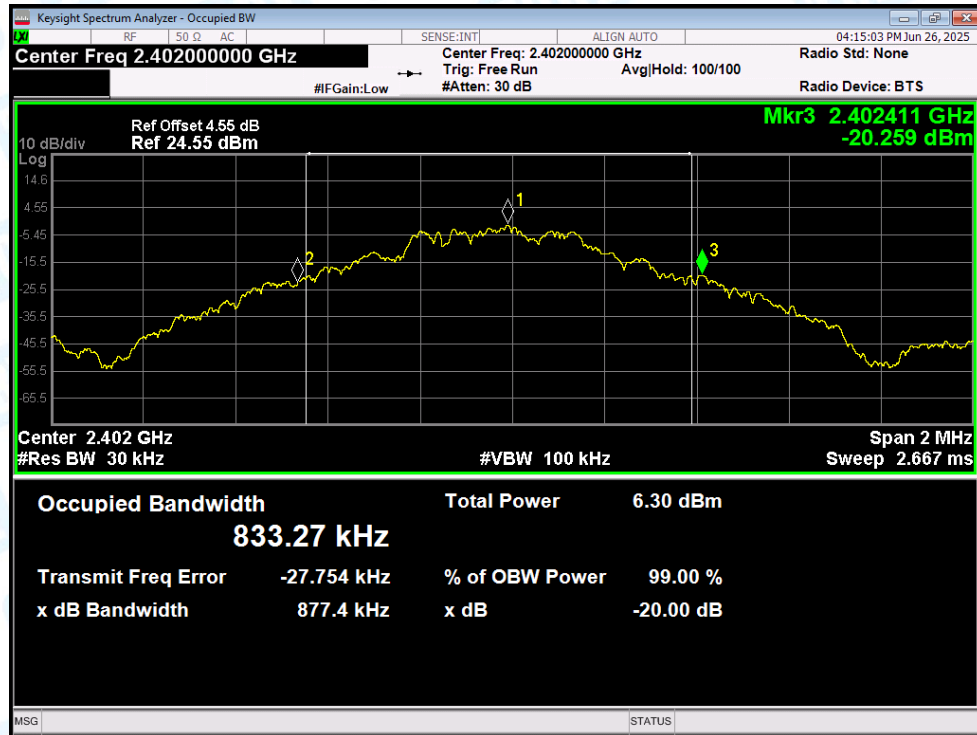
3.-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.88	Pass
NVNT	1-DH1	2441	Ant1	0.9	Pass
NVNT	1-DH1	2480	Ant1	0.9	Pass
NVNT	2-DH1	2402	Ant1	1.25	Pass
NVNT	2-DH1	2441	Ant1	1.26	Pass
NVNT	2-DH1	2480	Ant1	1.28	Pass
NVNT	3-DH1	2402	Ant1	1.21	Pass
NVNT	3-DH1	2441	Ant1	1.25	Pass
NVNT	3-DH1	2480	Ant1	1.25	Pass

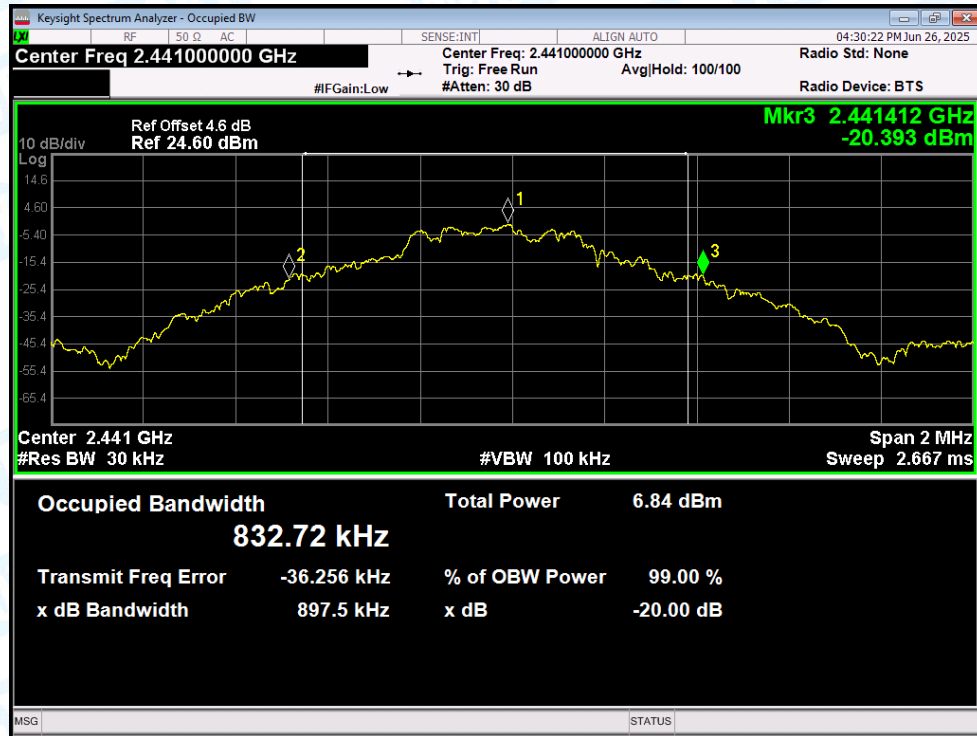
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

Test Graphs

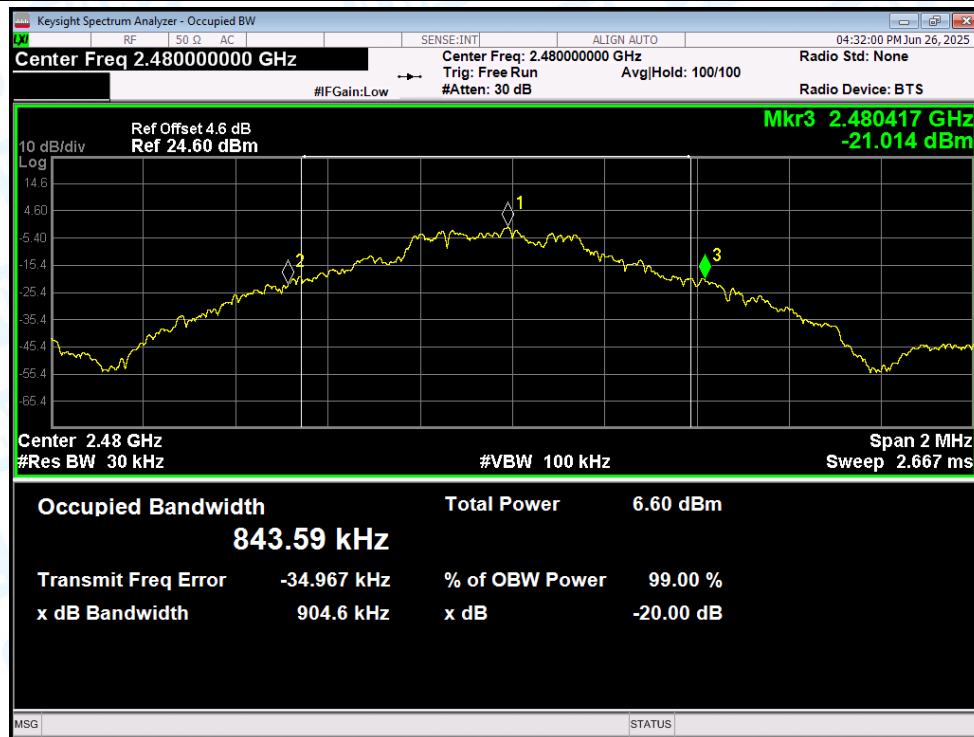
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



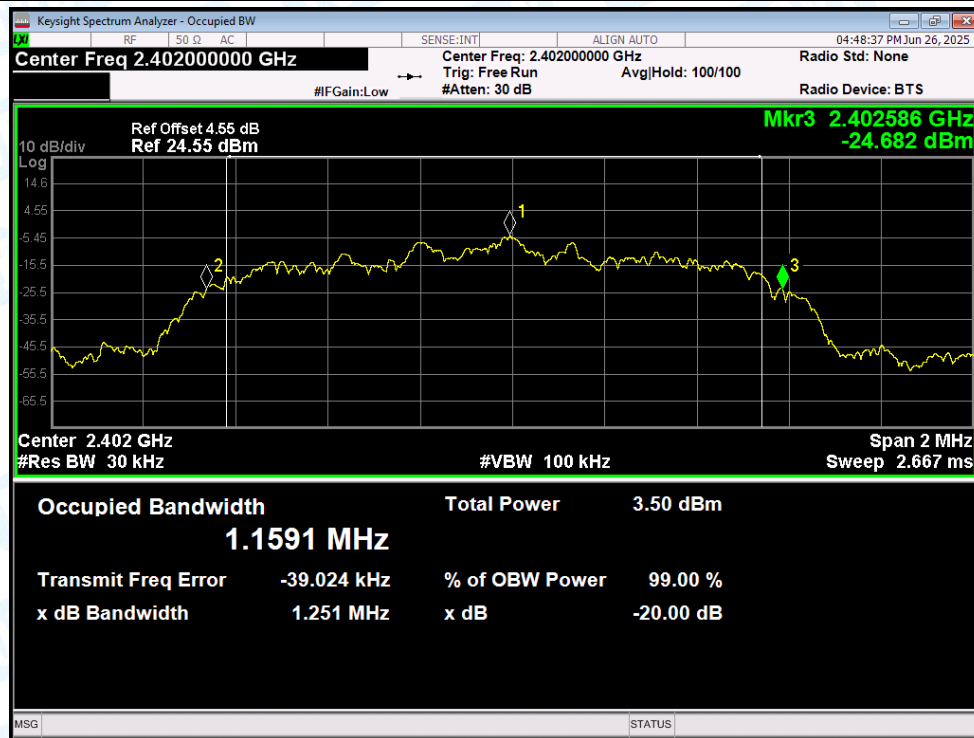
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



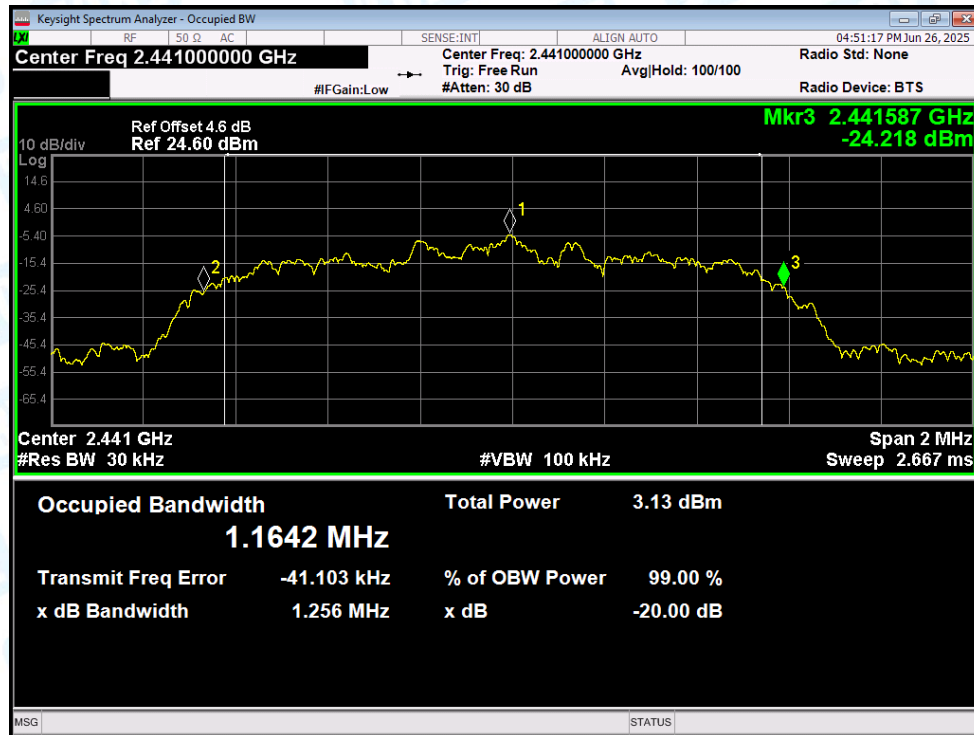
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



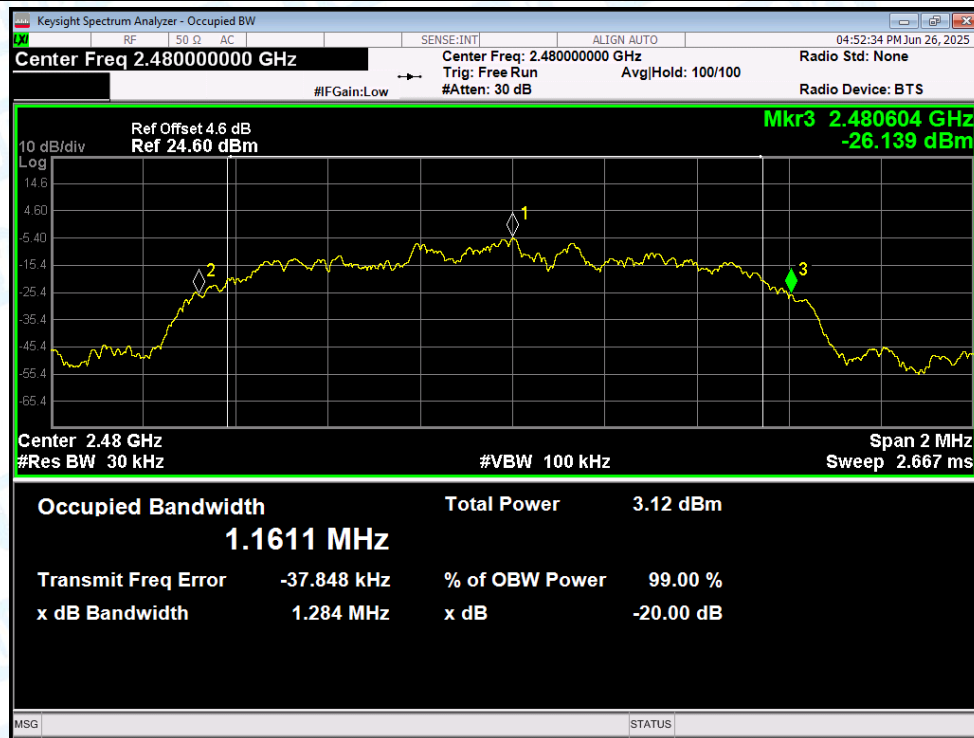
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



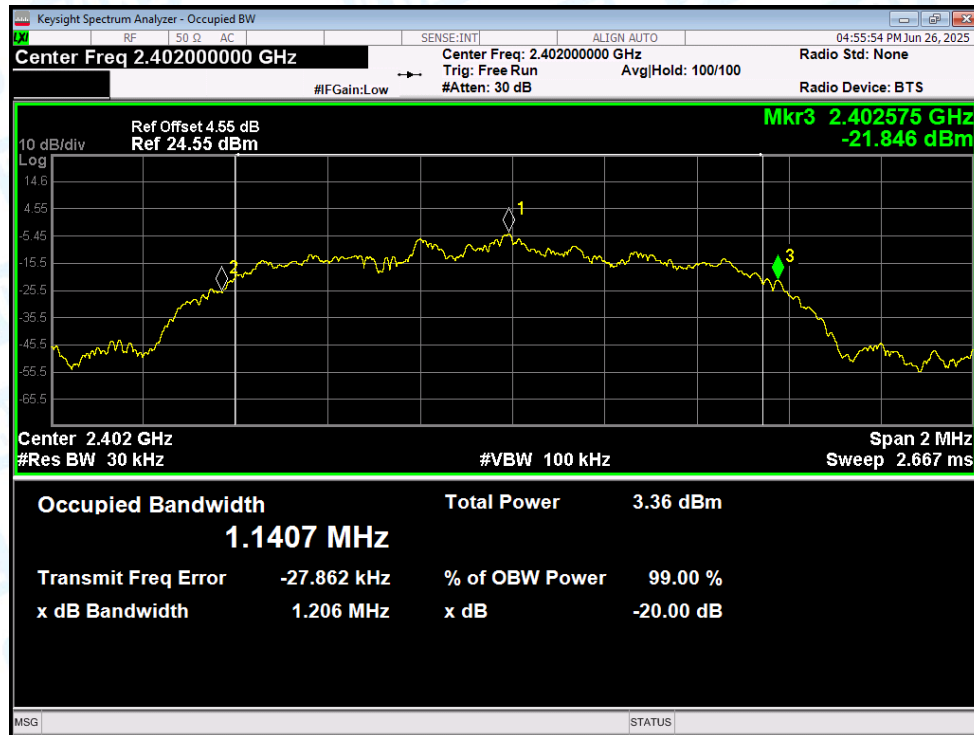
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



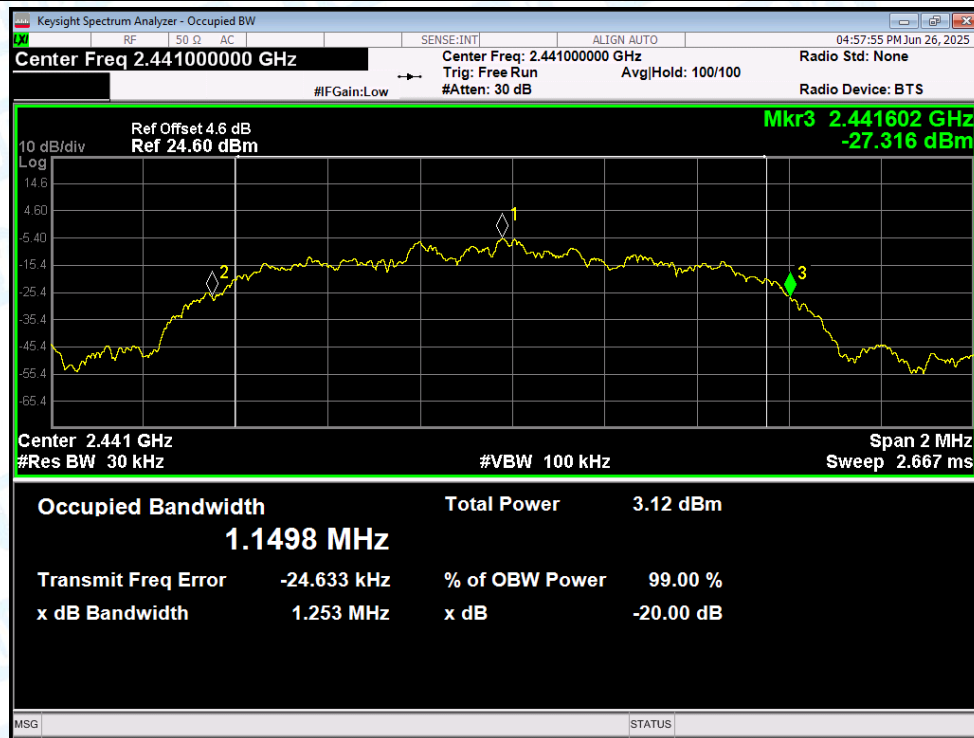
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

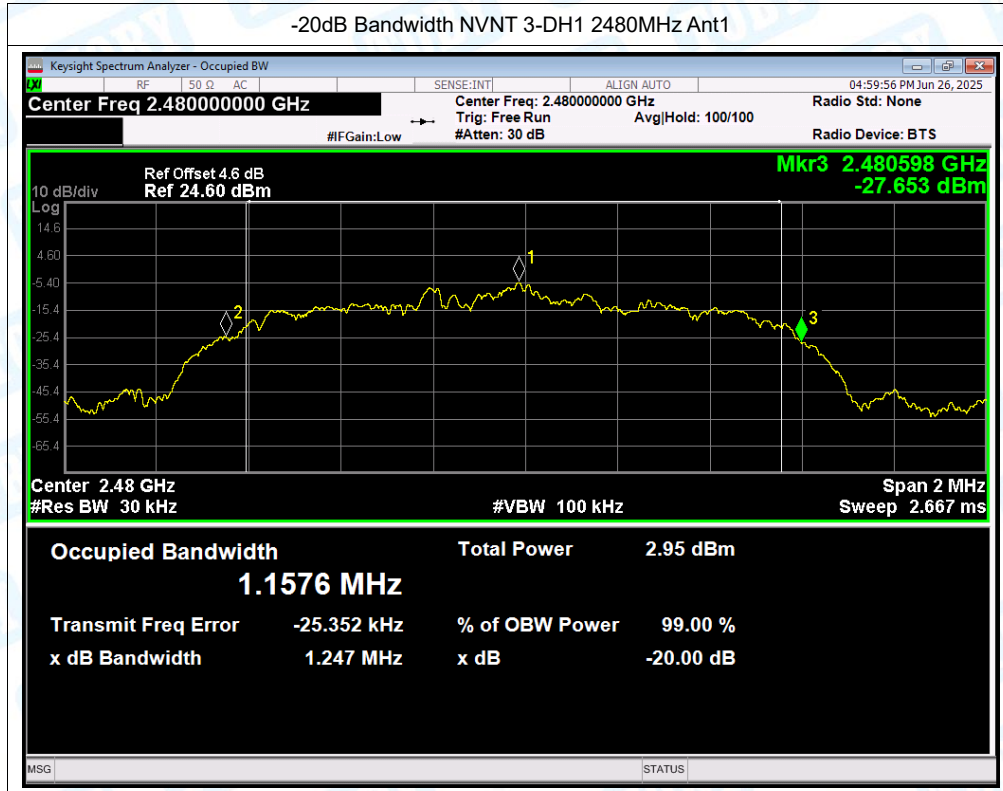


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1





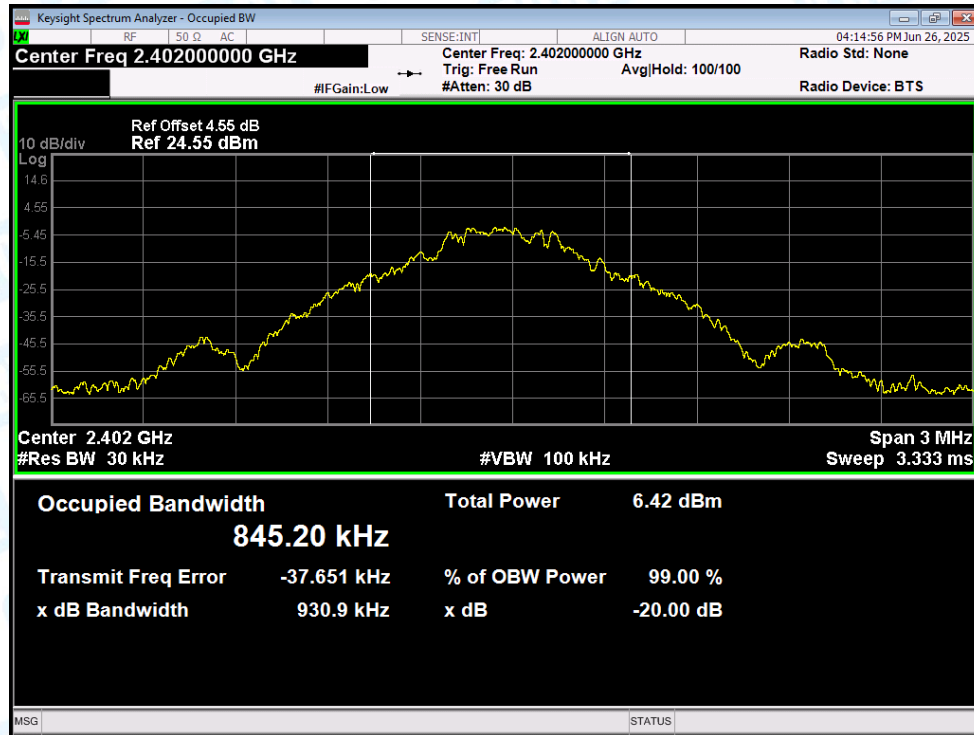
4.Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.845
NVNT	1-DH1	2441	Ant1	0.843
NVNT	1-DH1	2480	Ant1	0.85
NVNT	2-DH1	2402	Ant1	1.161
NVNT	2-DH1	2441	Ant1	1.163
NVNT	2-DH1	2480	Ant1	1.169
NVNT	3-DH1	2402	Ant1	1.159
NVNT	3-DH1	2441	Ant1	1.157
NVNT	3-DH1	2480	Ant1	1.153

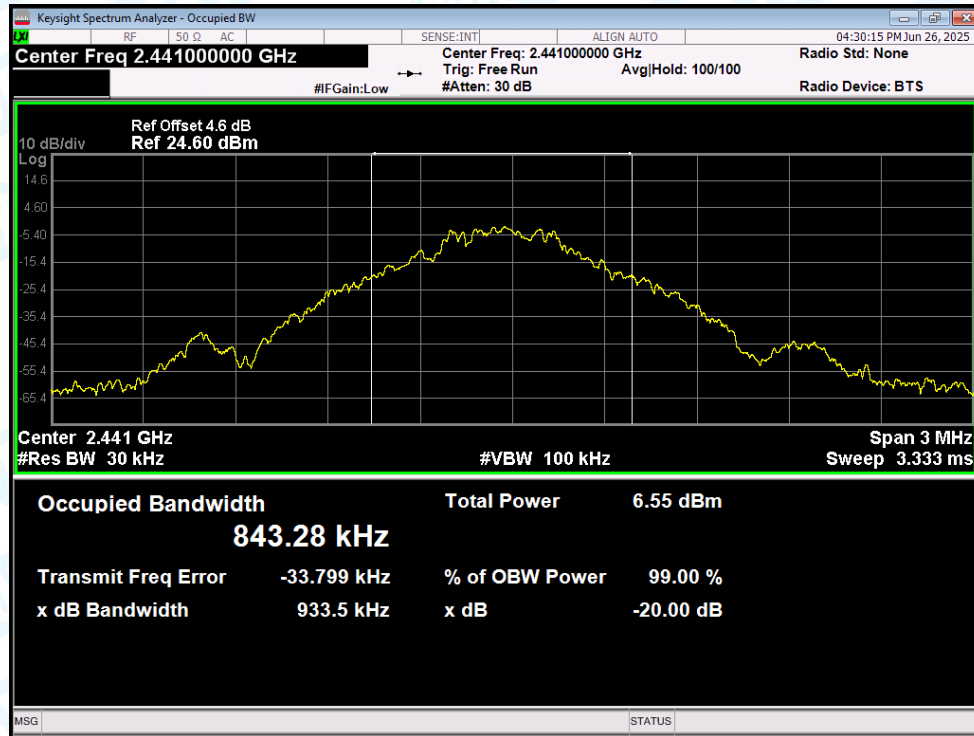
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

Test Graphs

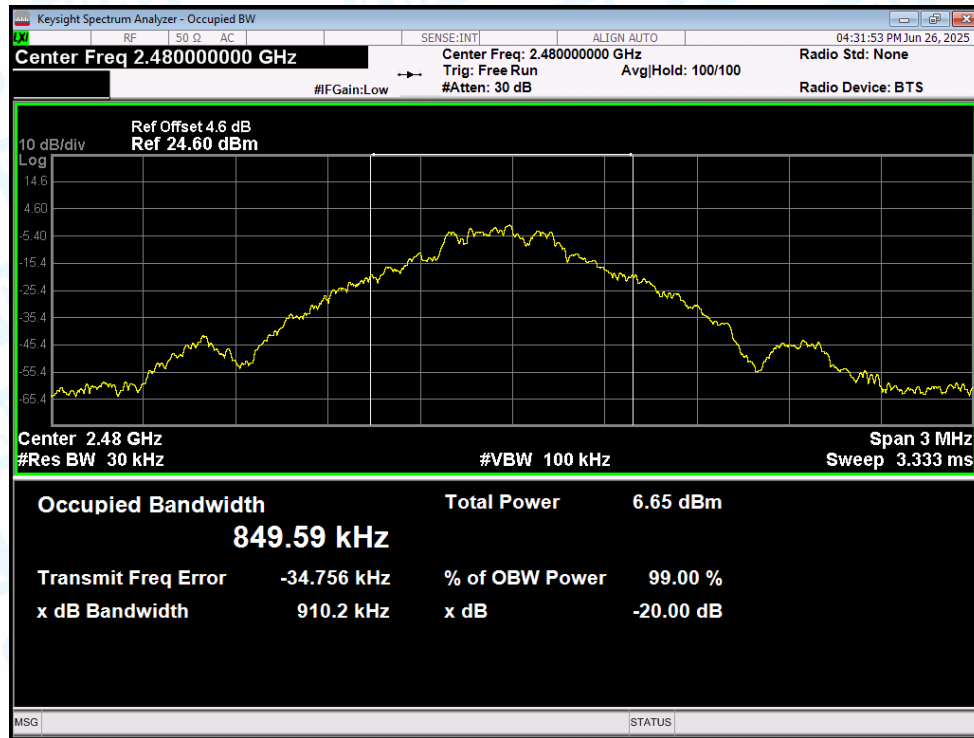
OBW NVNT 1-DH1 2402MHz Ant1



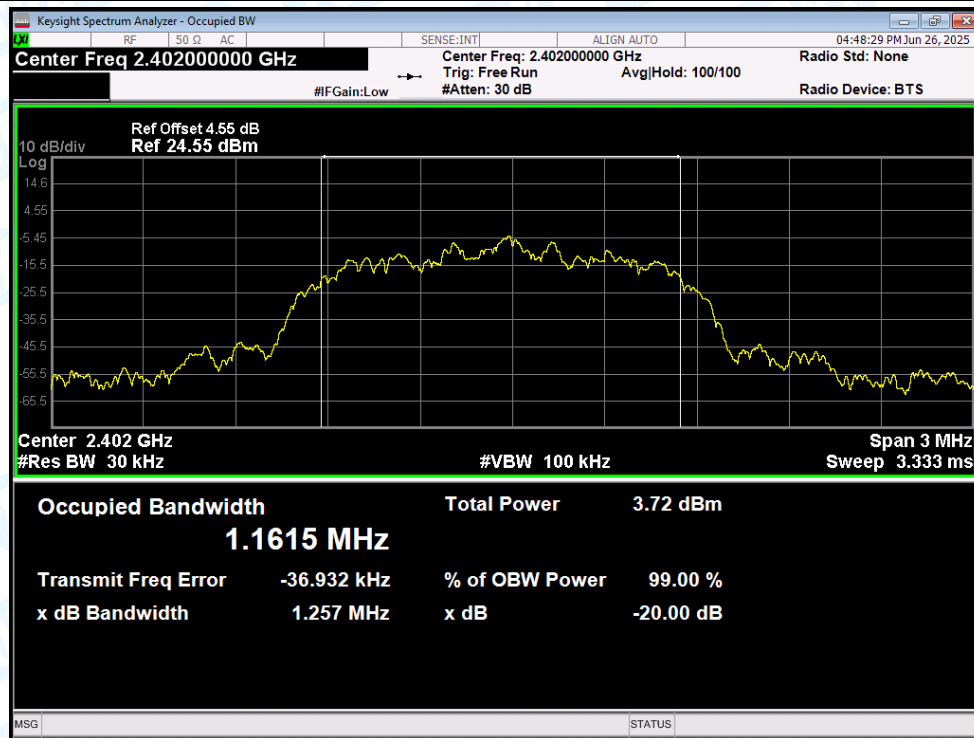
OBW NVNT 1-DH1 2441MHz Ant1



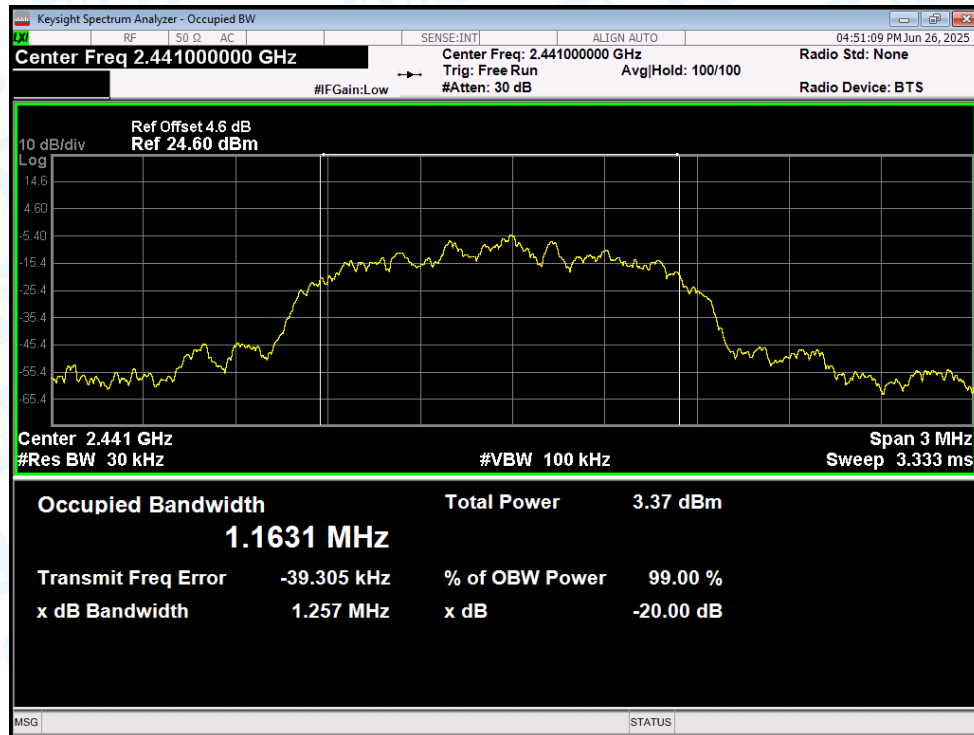
OBW NVNT 1-DH1 2480MHz Ant1



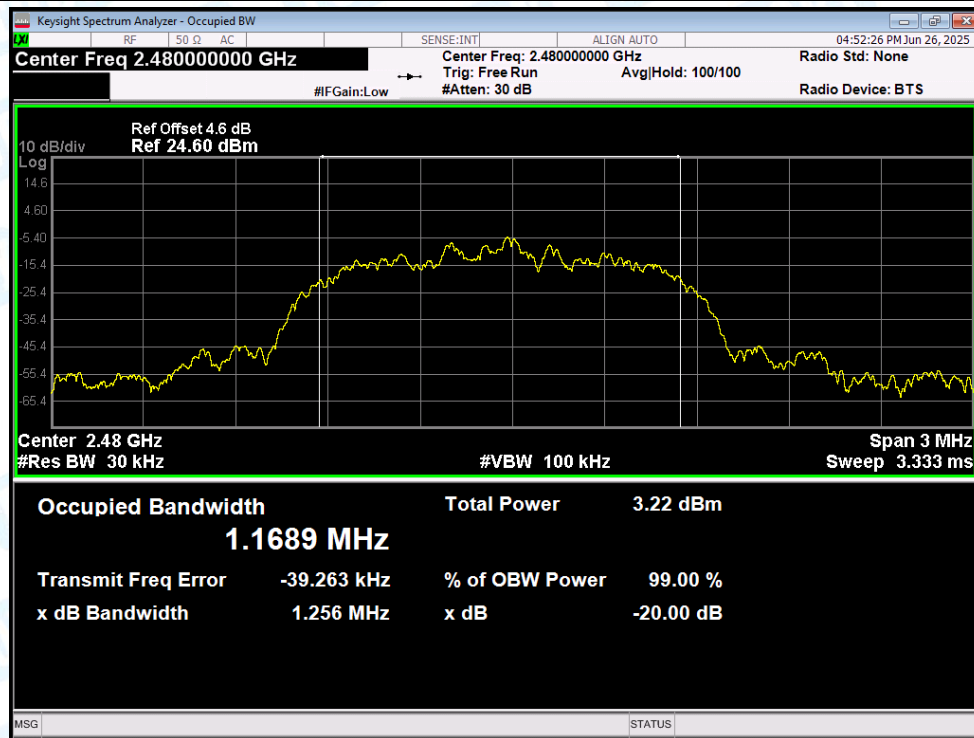
OBW NVNT 2-DH1 2402MHz Ant1



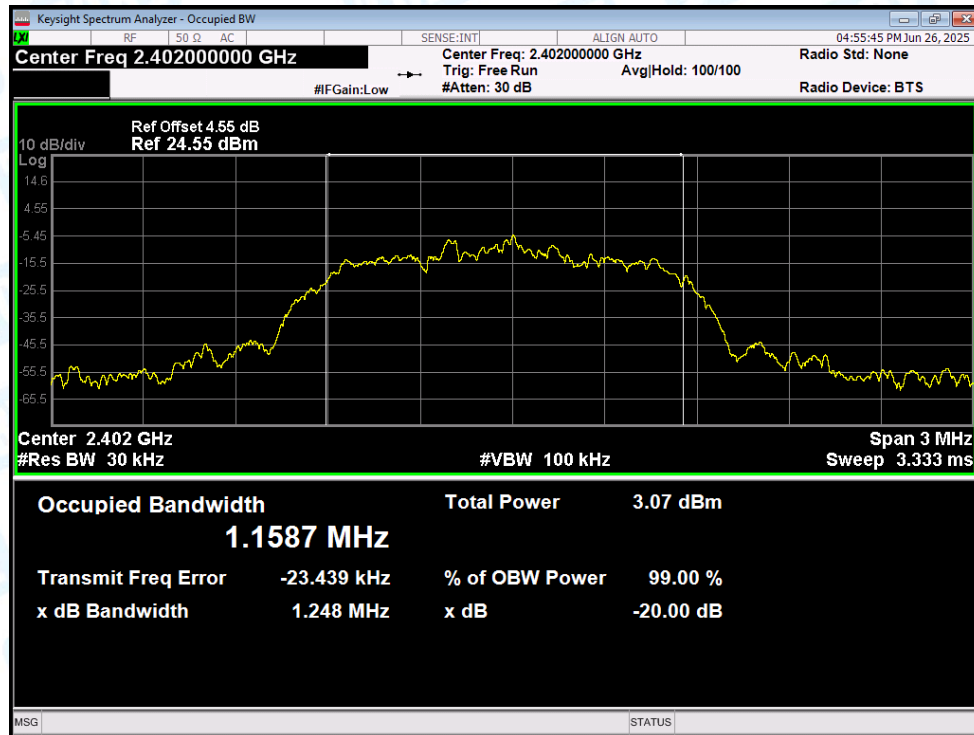
OBW NVNT 2-DH1 2441MHz Ant1



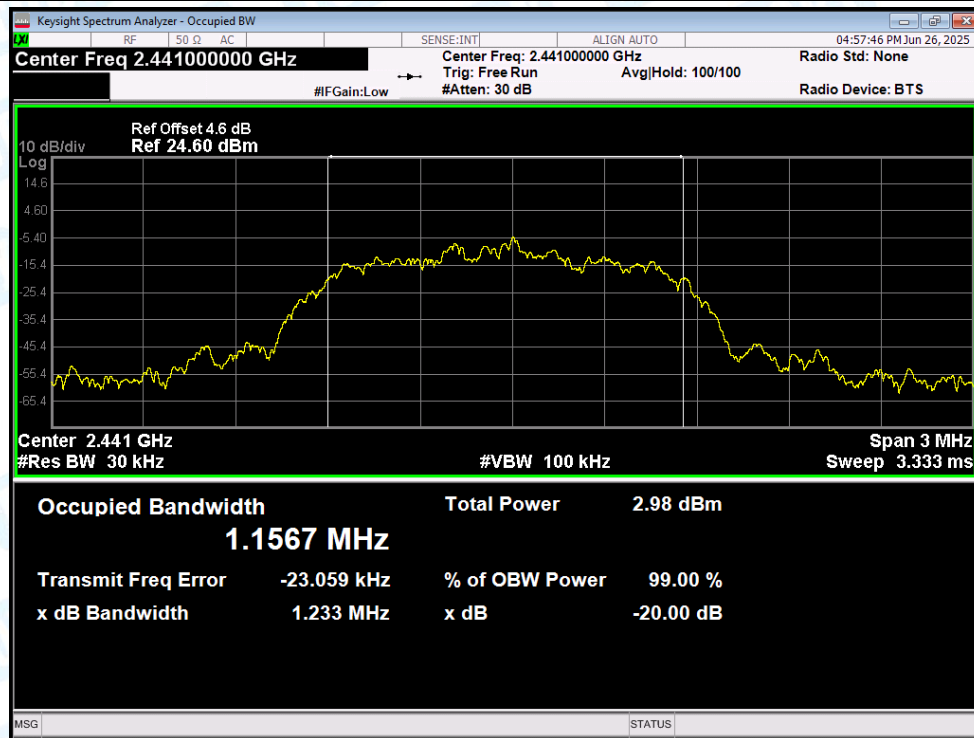
OBW NVNT 2-DH1 2480MHz Ant1

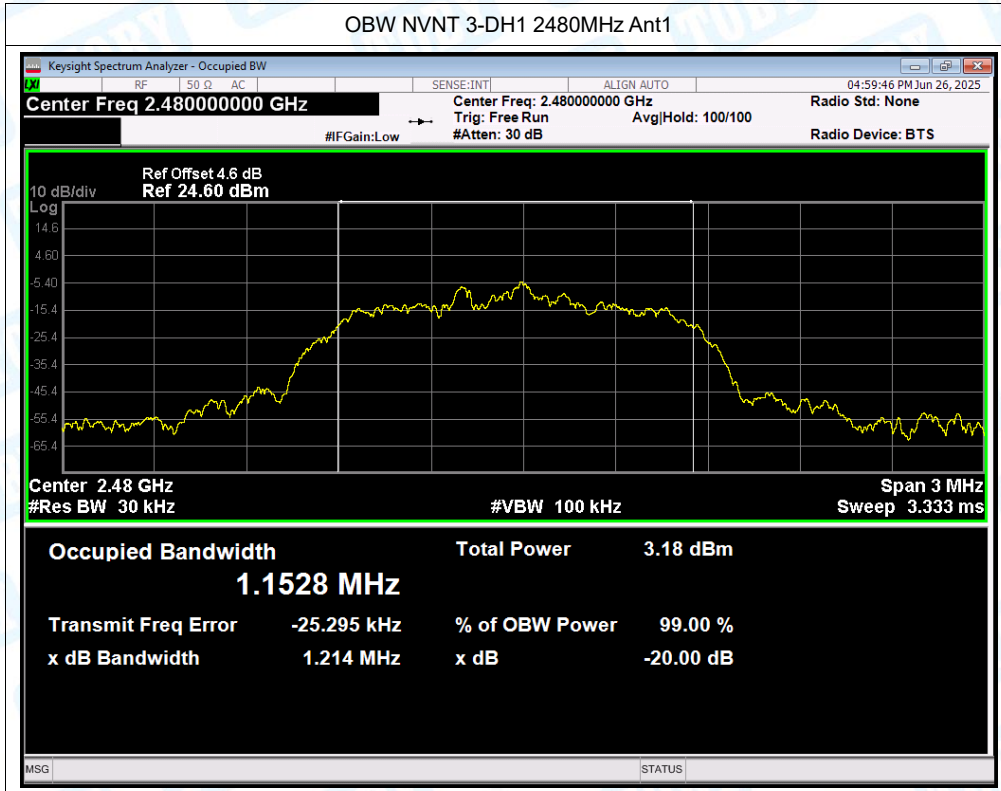


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1





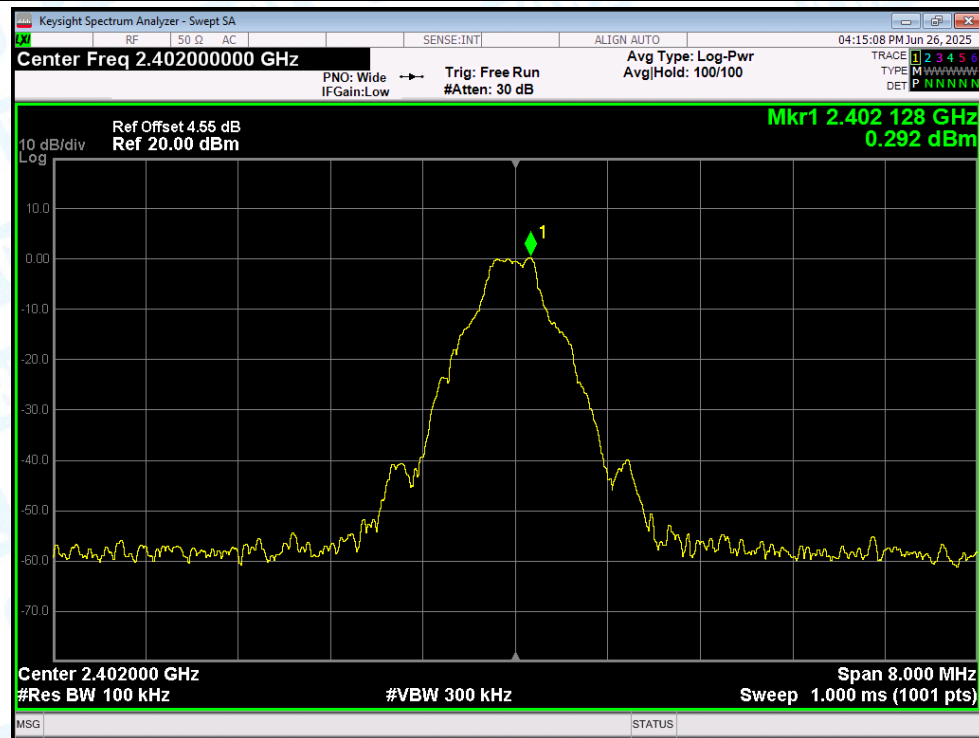
5.Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-54.88	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-54.4	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-51.66	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-50.86	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-52.12	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-50.84	-20	Pass

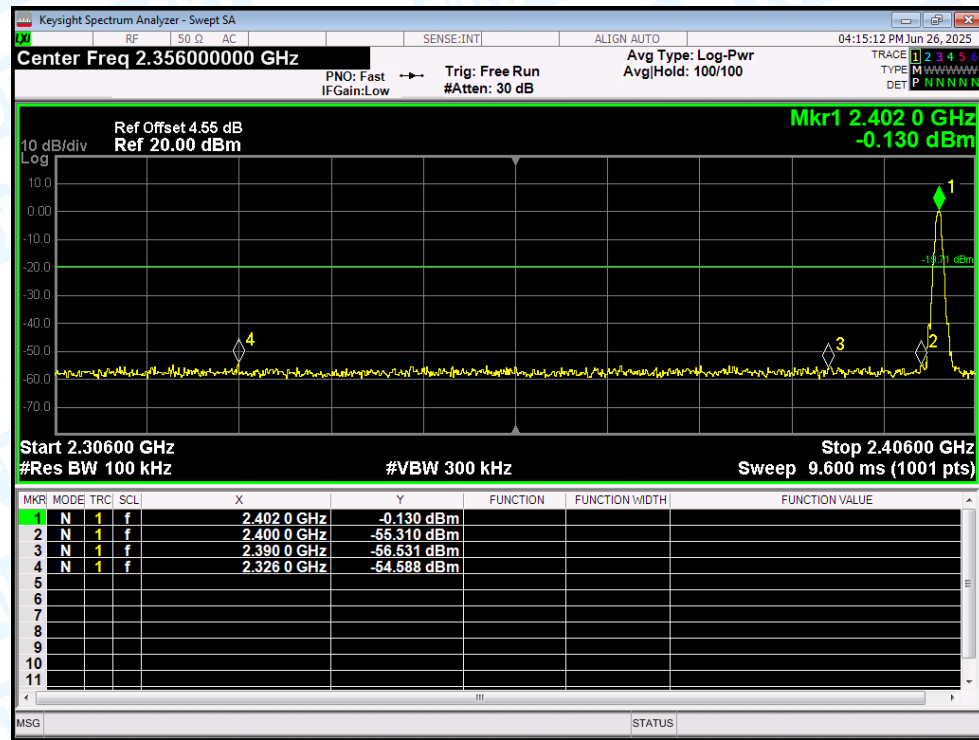
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

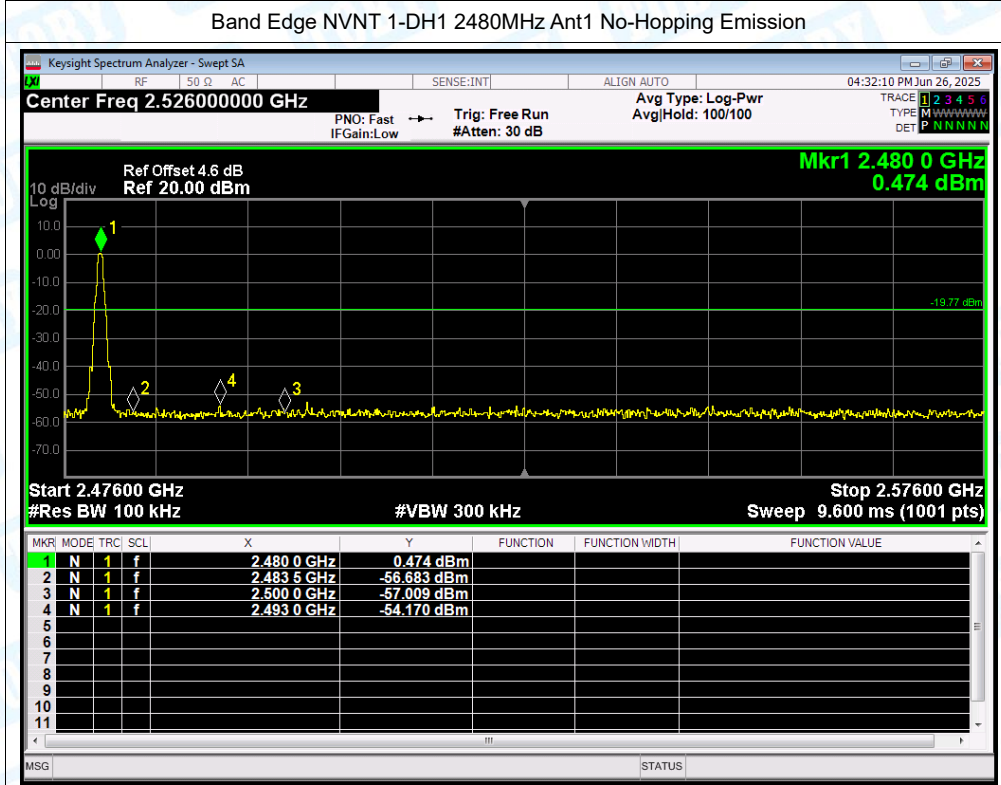
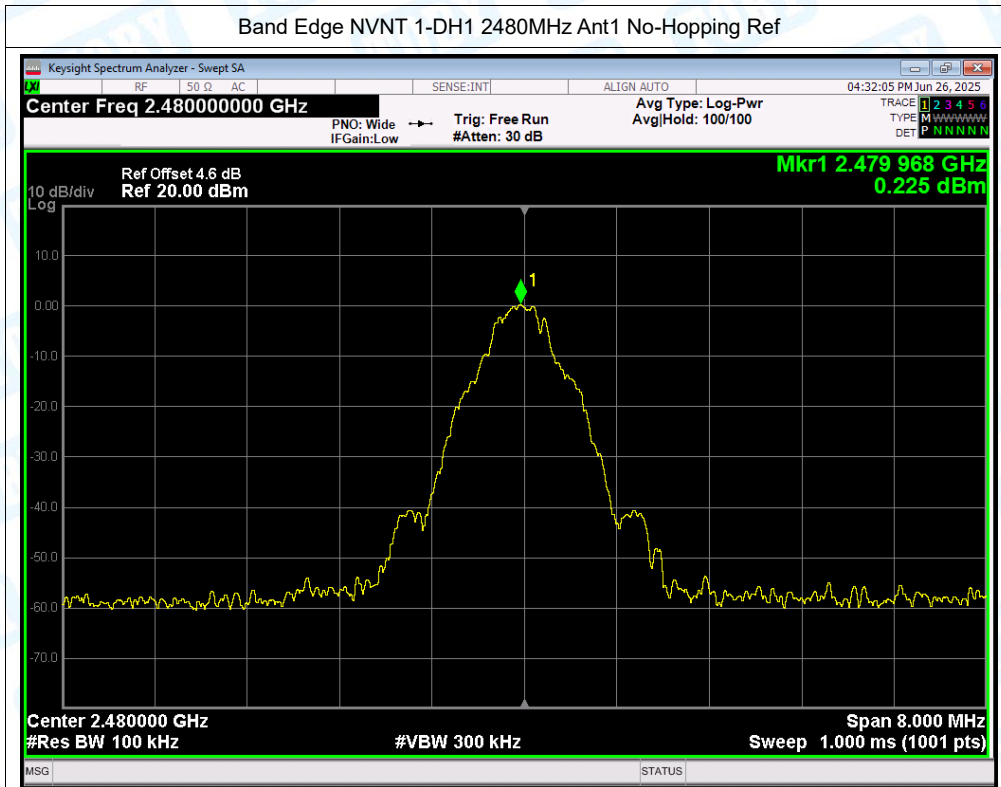
Test Graphs

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

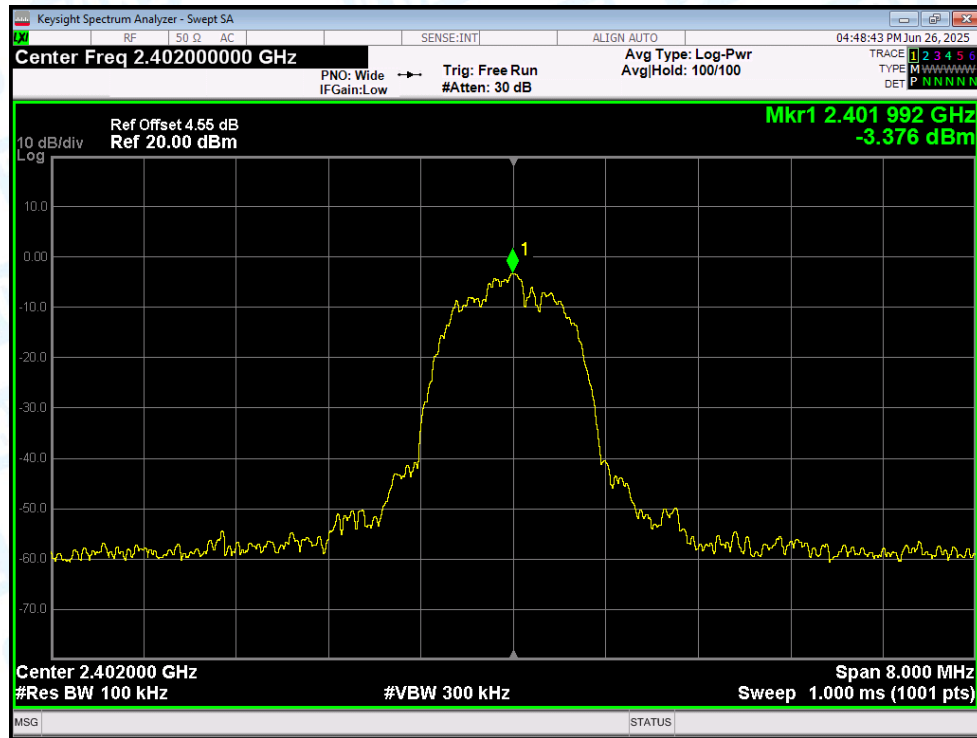


Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

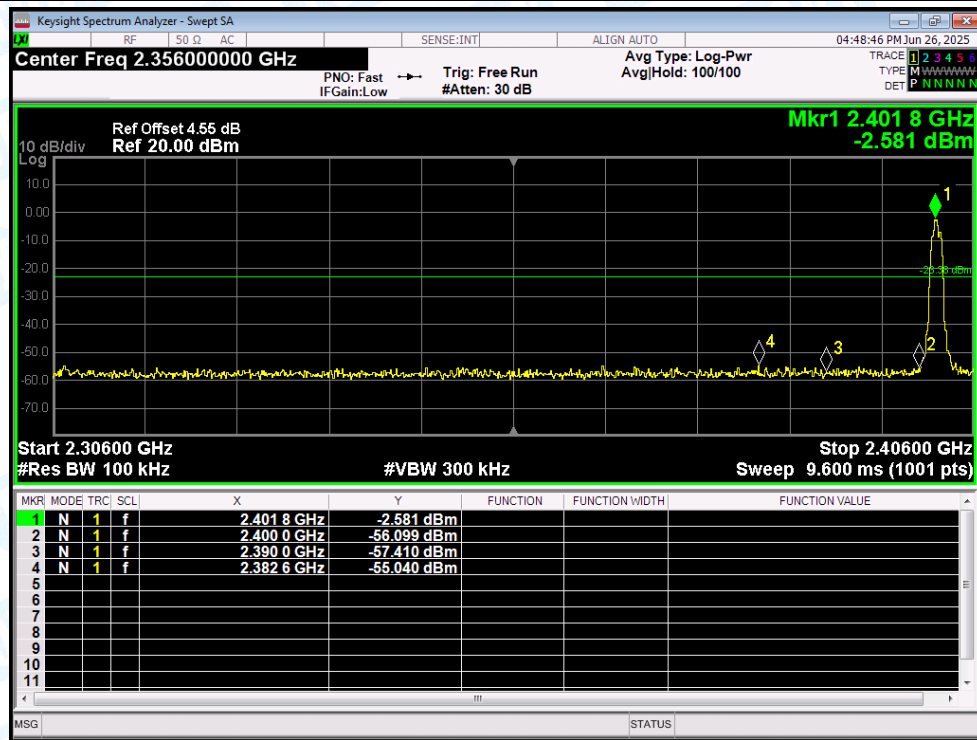




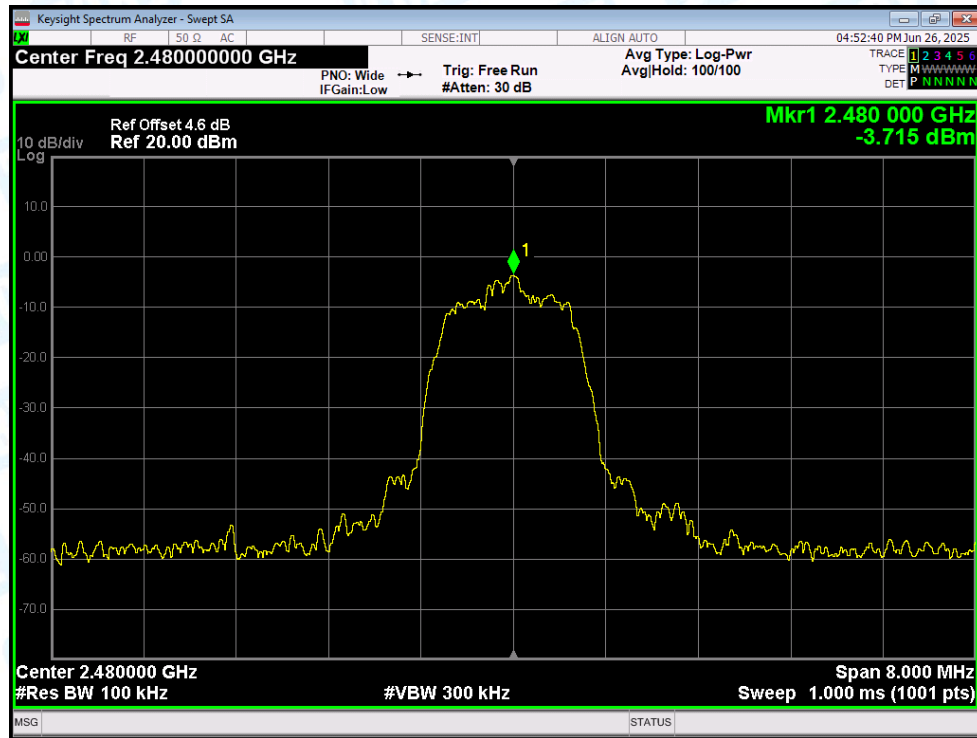
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



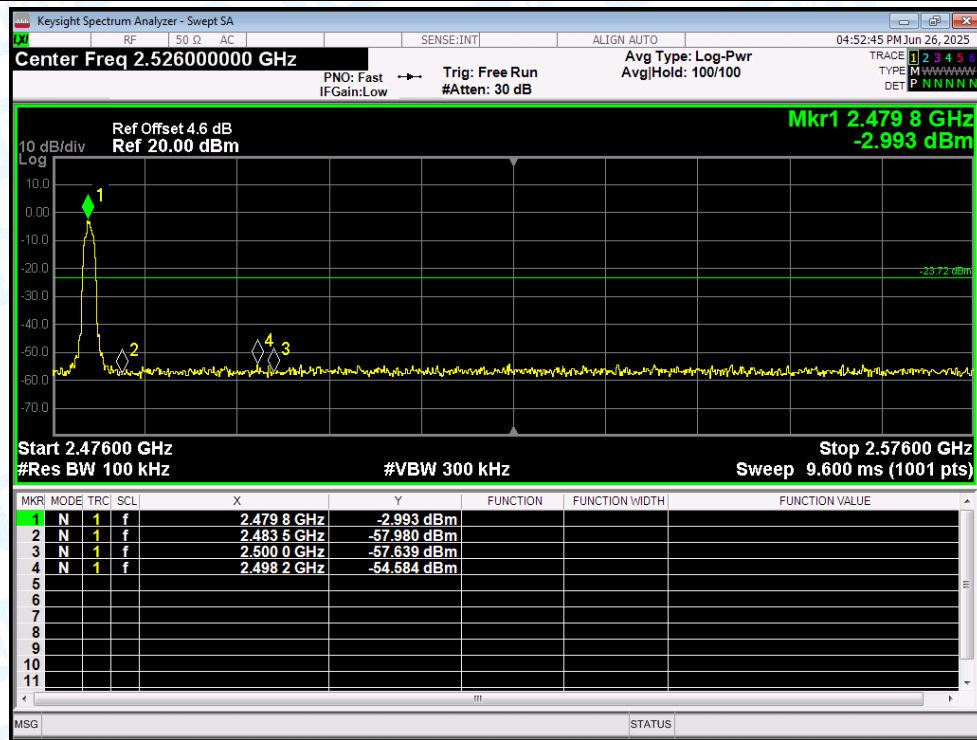
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission

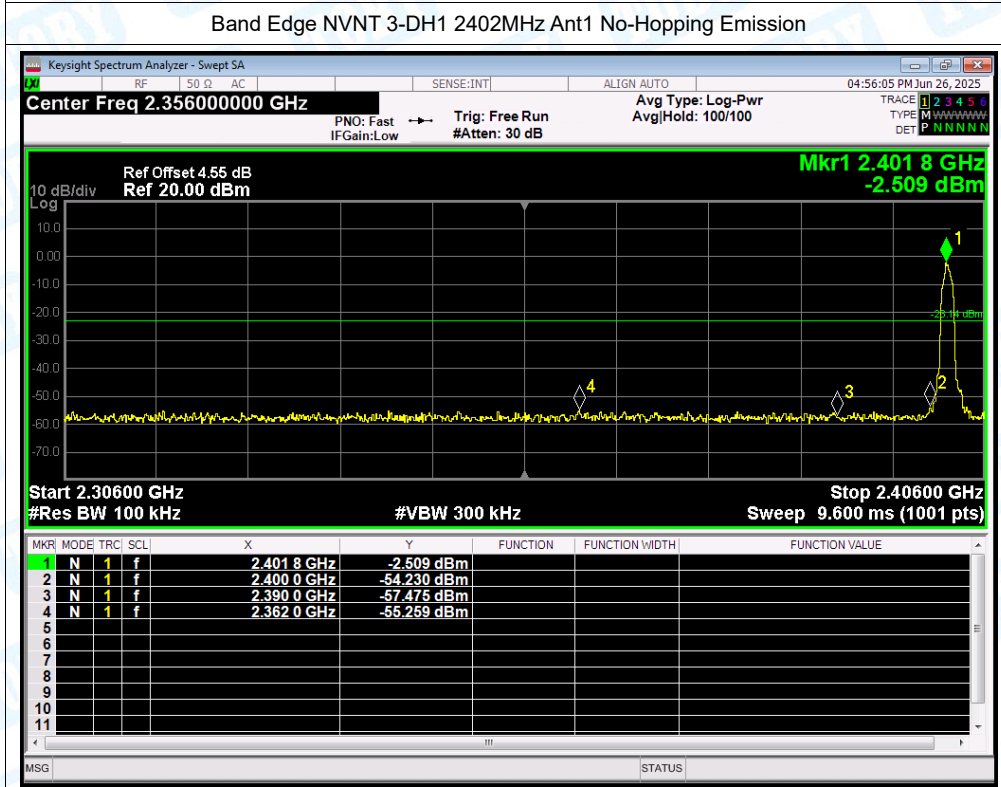
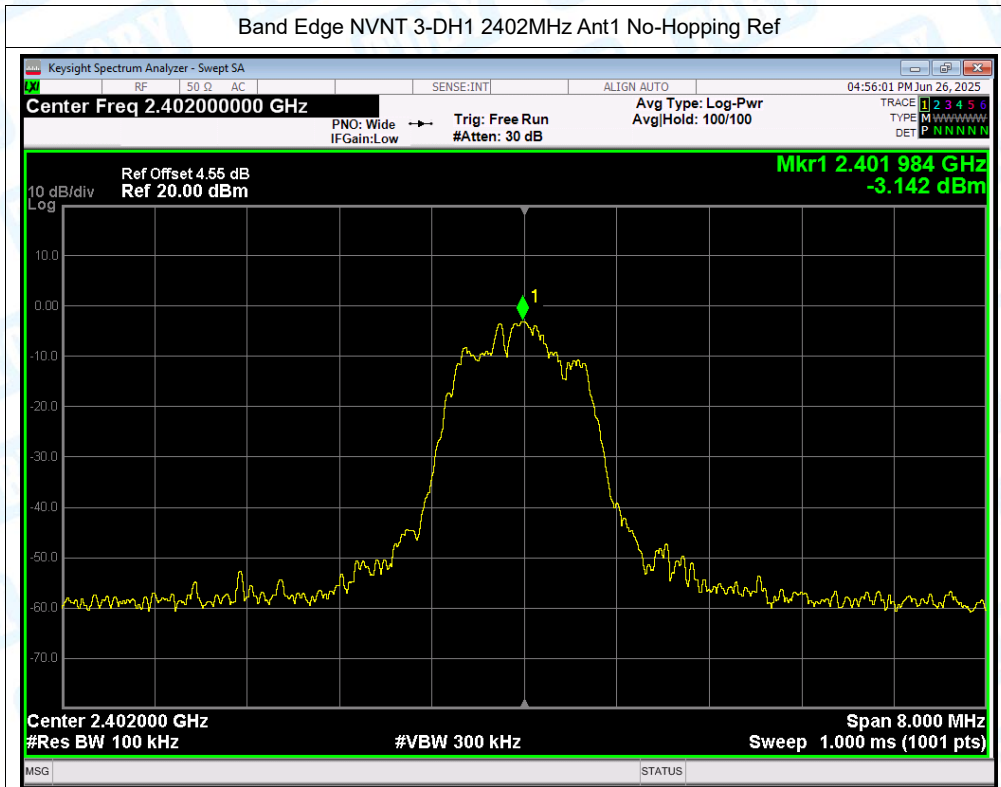


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref

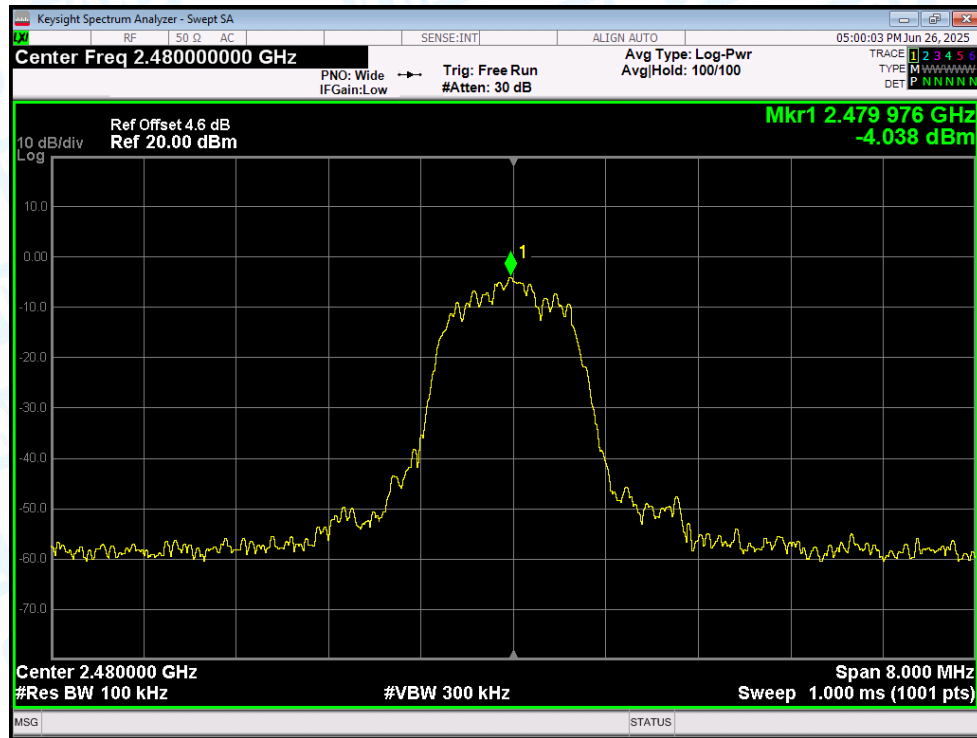


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission

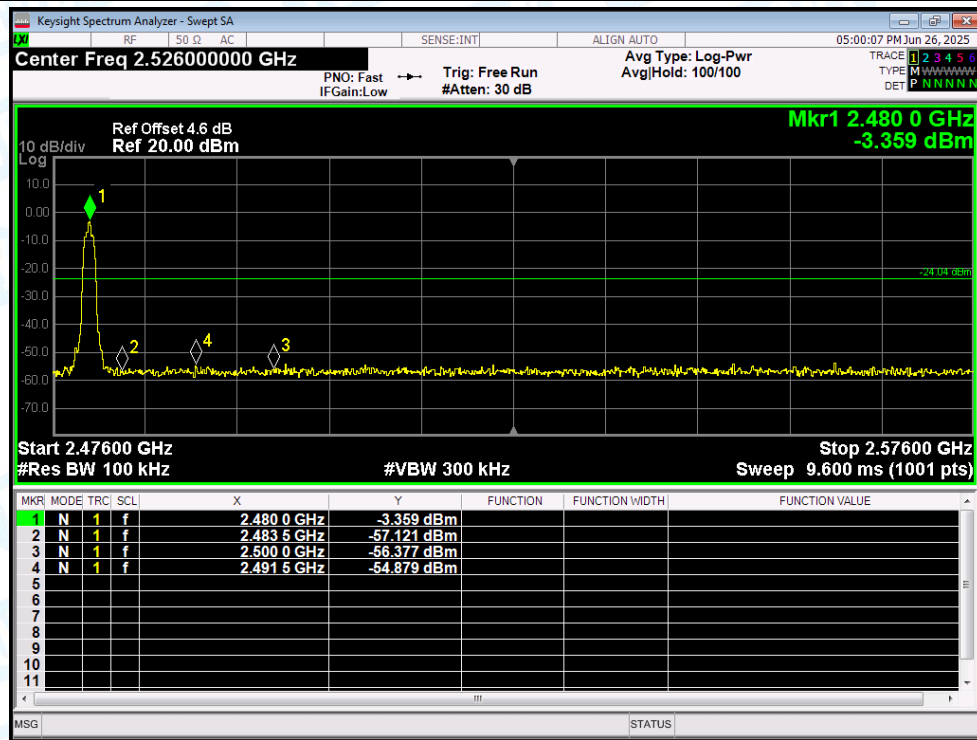




Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



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



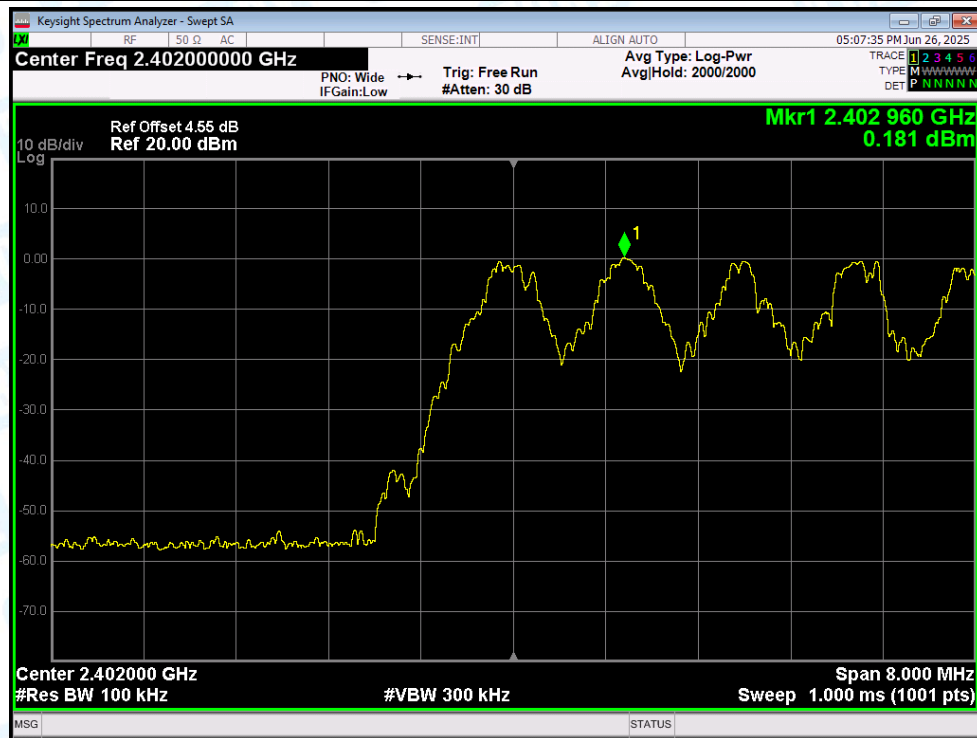
6. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-53.94	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-53.46	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-50.84	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-50.61	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-51.22	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-49.95	-20	Pass

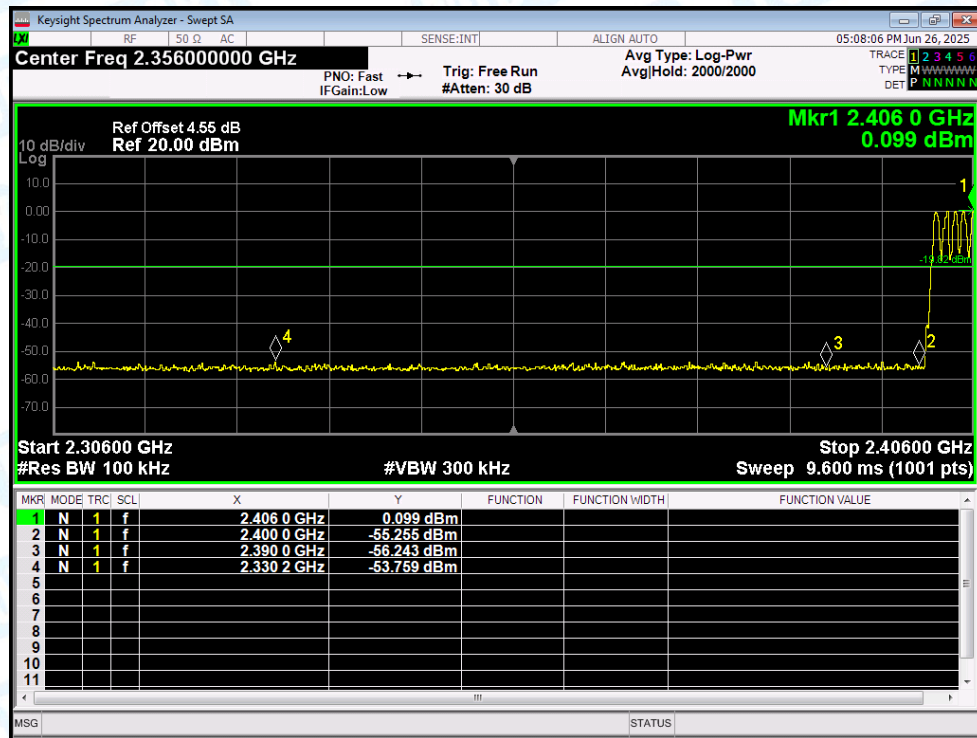
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

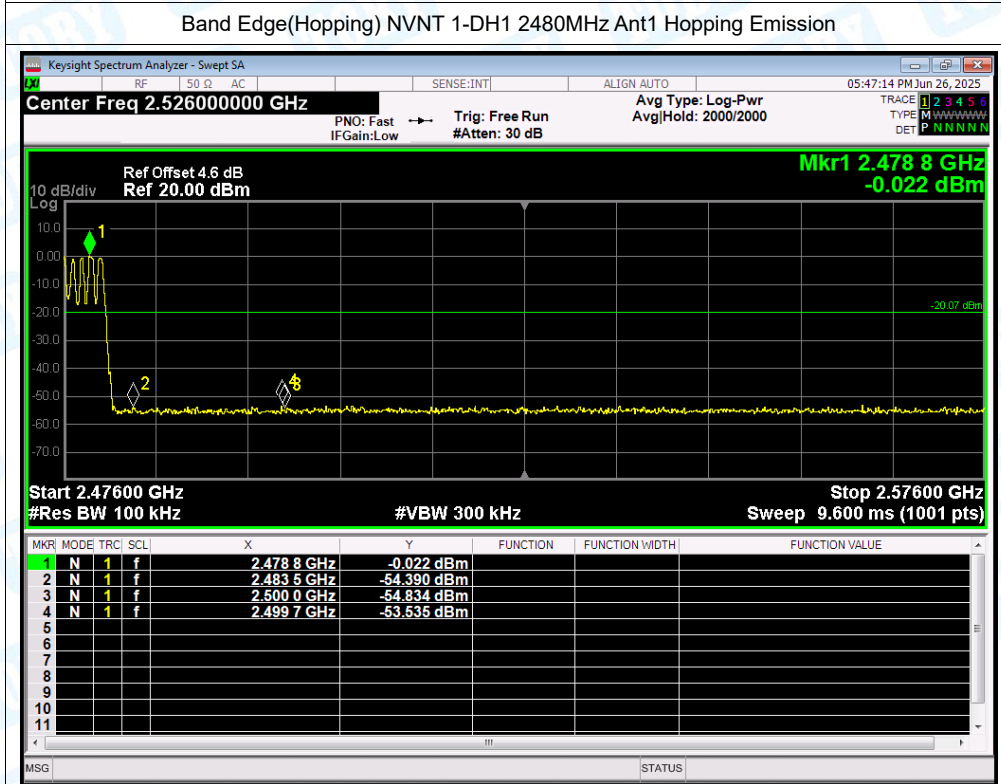
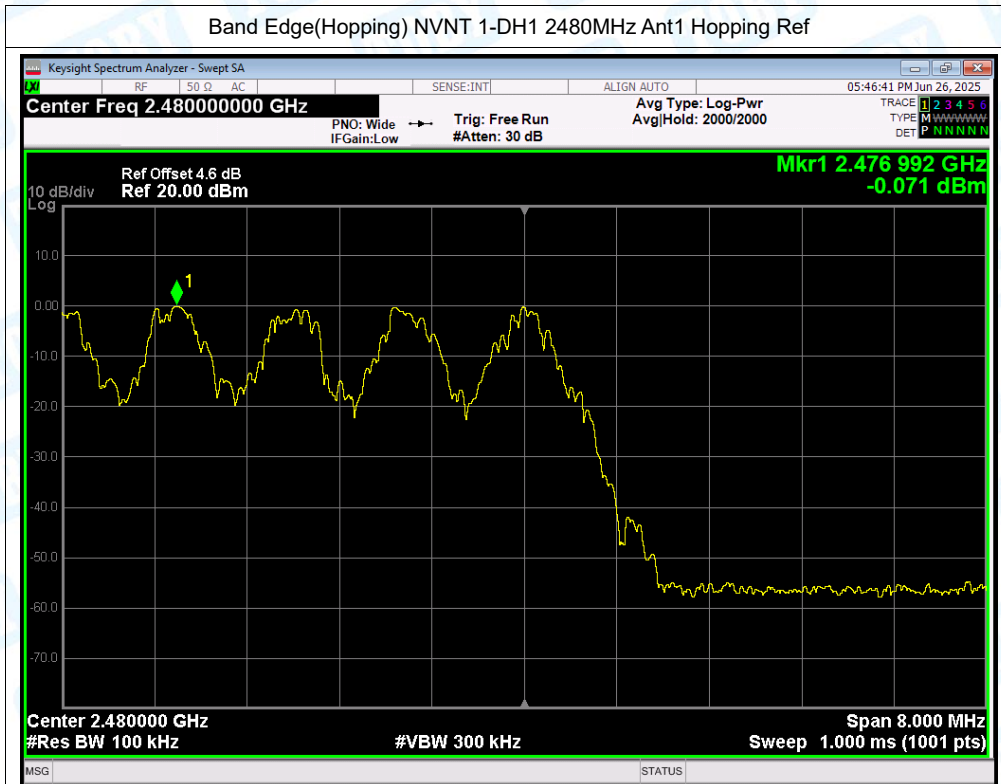
Test Graphs

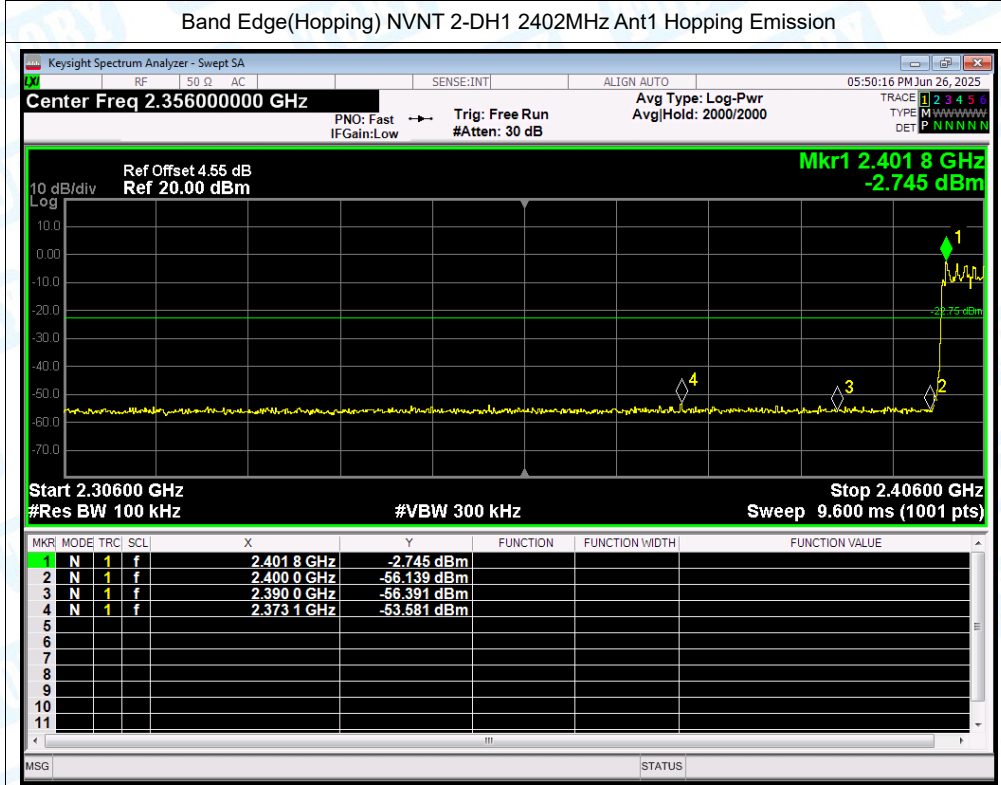
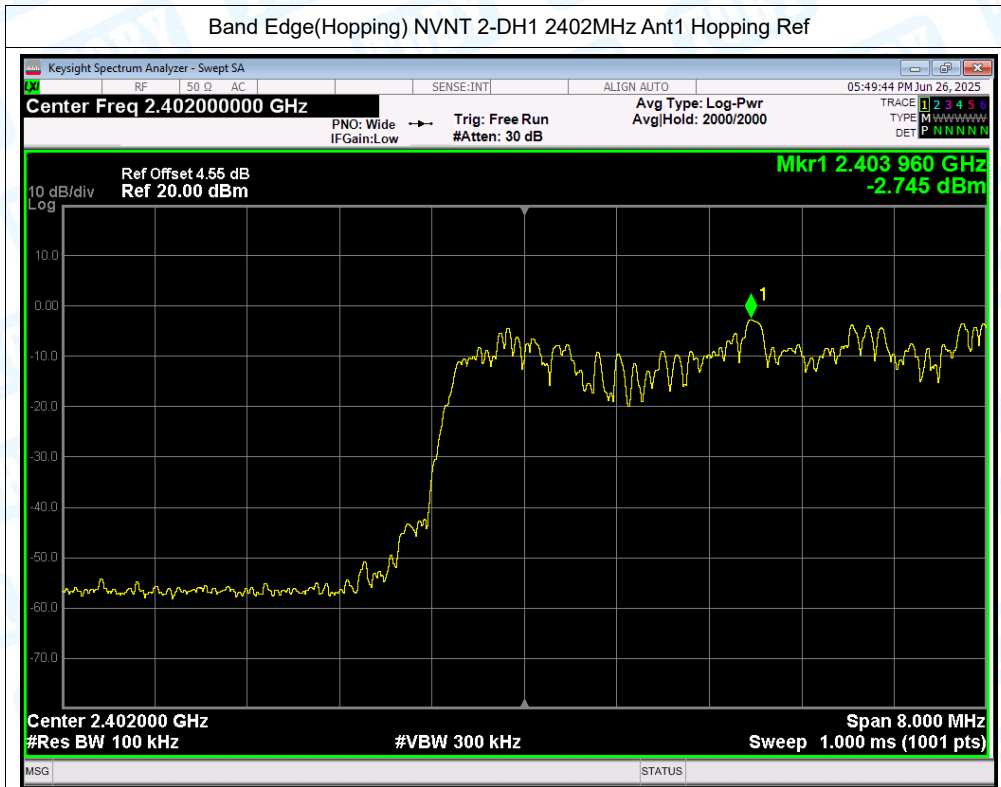
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



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



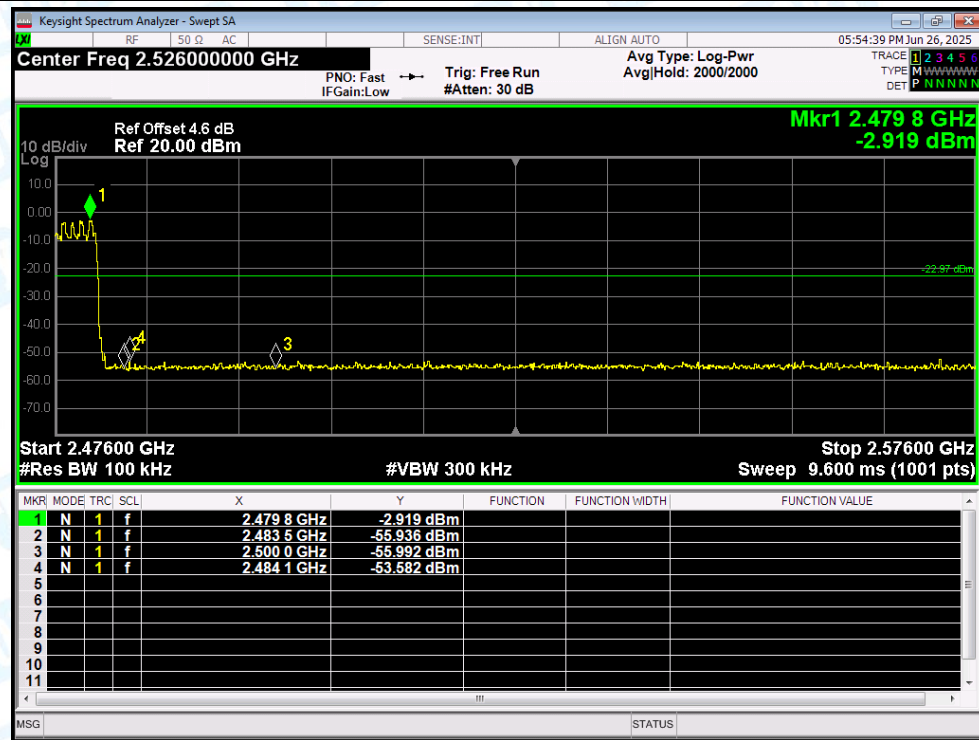




Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



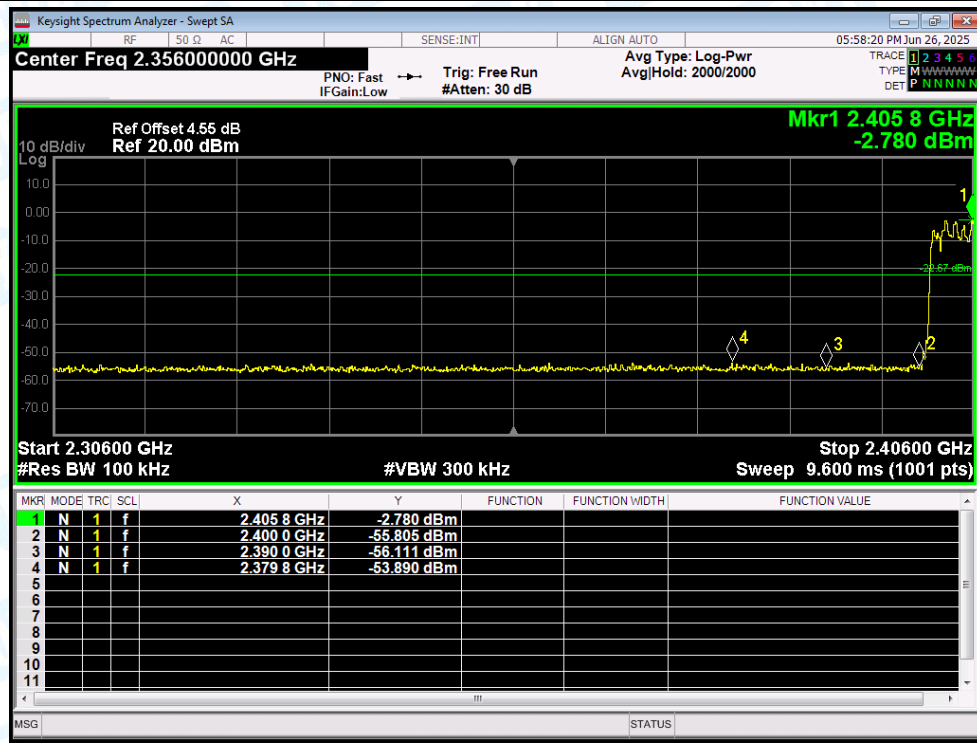
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission

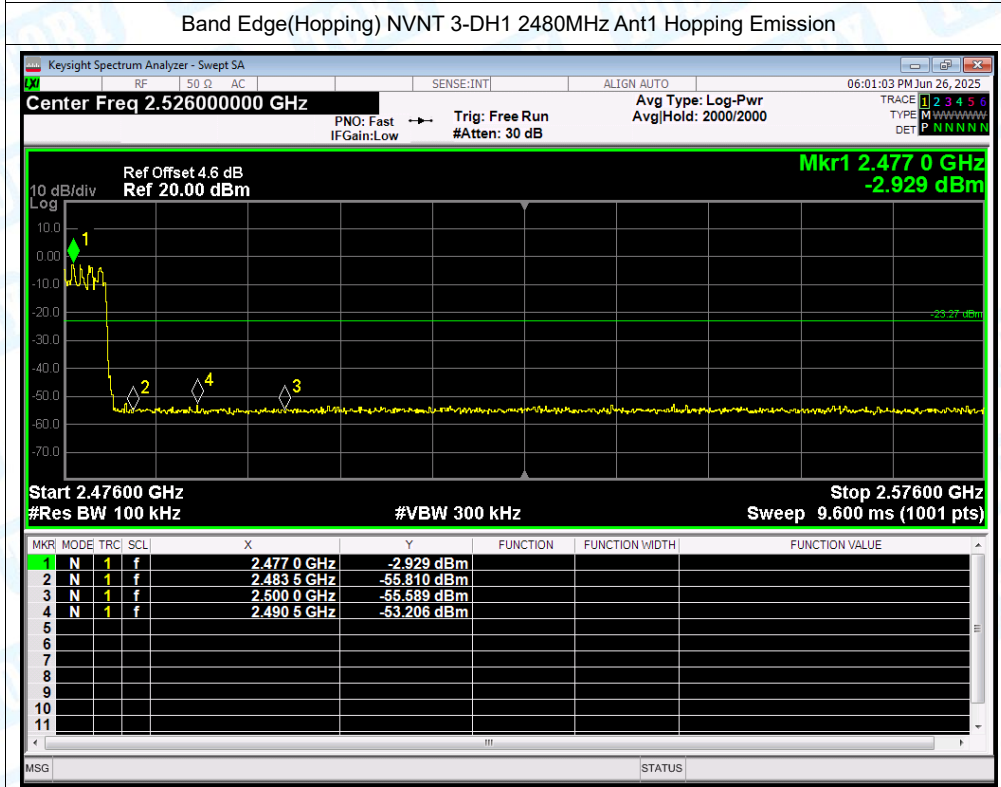
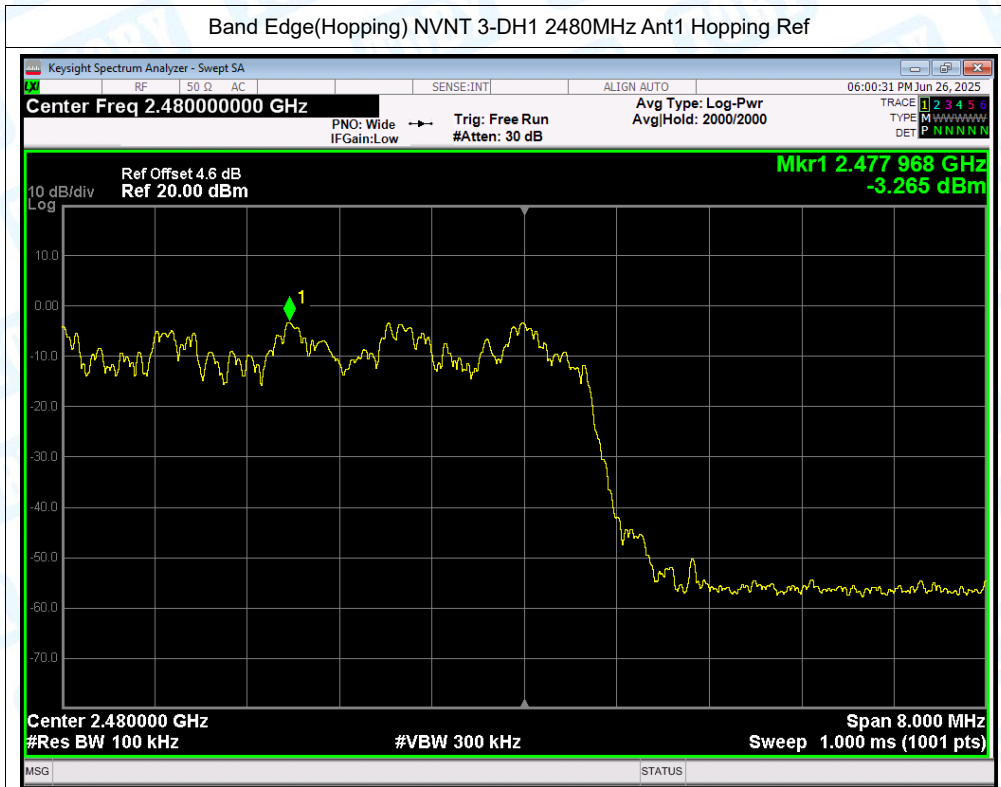


Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



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	-48.68	-20	Pass
NVNT	1-DH1	2441	Ant1	-50.33	-20	Pass
NVNT	1-DH1	2480	Ant1	-49.66	-20	Pass
NVNT	2-DH1	2402	Ant1	-46.64	-20	Pass
NVNT	2-DH1	2441	Ant1	-46.41	-20	Pass
NVNT	2-DH1	2480	Ant1	-45.56	-20	Pass
NVNT	3-DH1	2402	Ant1	-46.38	-20	Pass
NVNT	3-DH1	2441	Ant1	-46.26	-20	Pass
NVNT	3-DH1	2480	Ant1	-45.92	-20	Pass

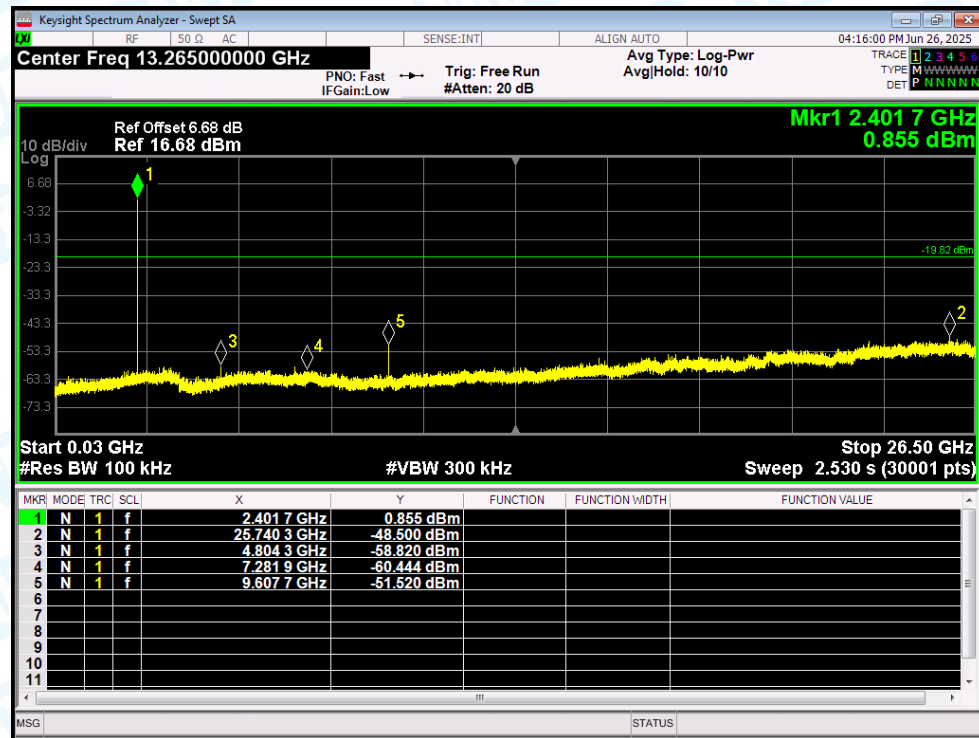
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

Test Graphs

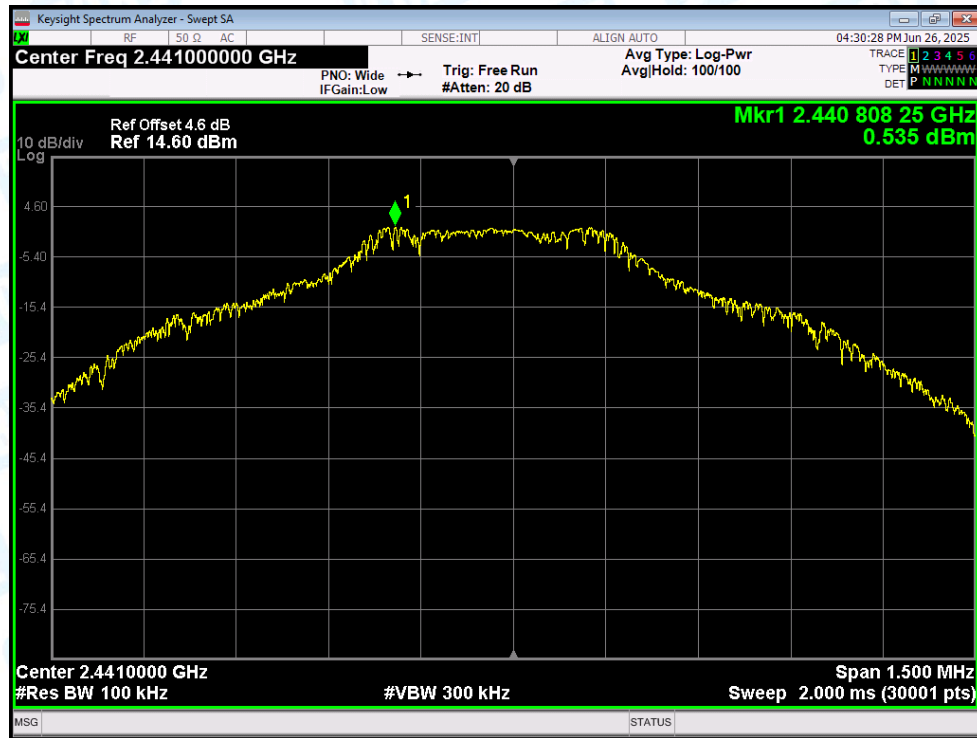
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



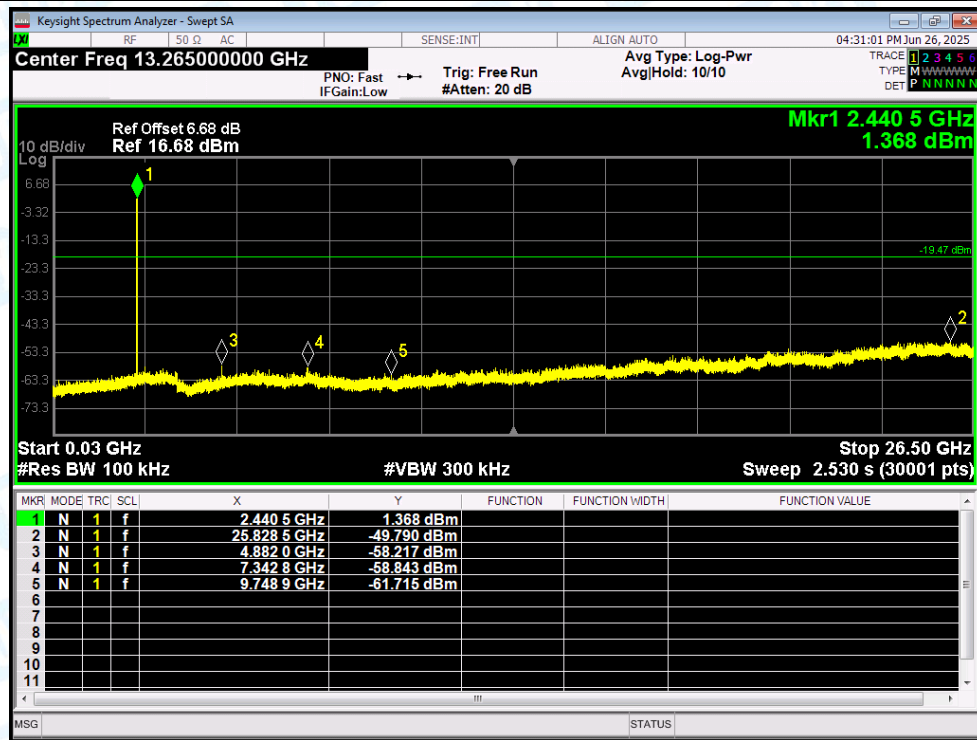
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



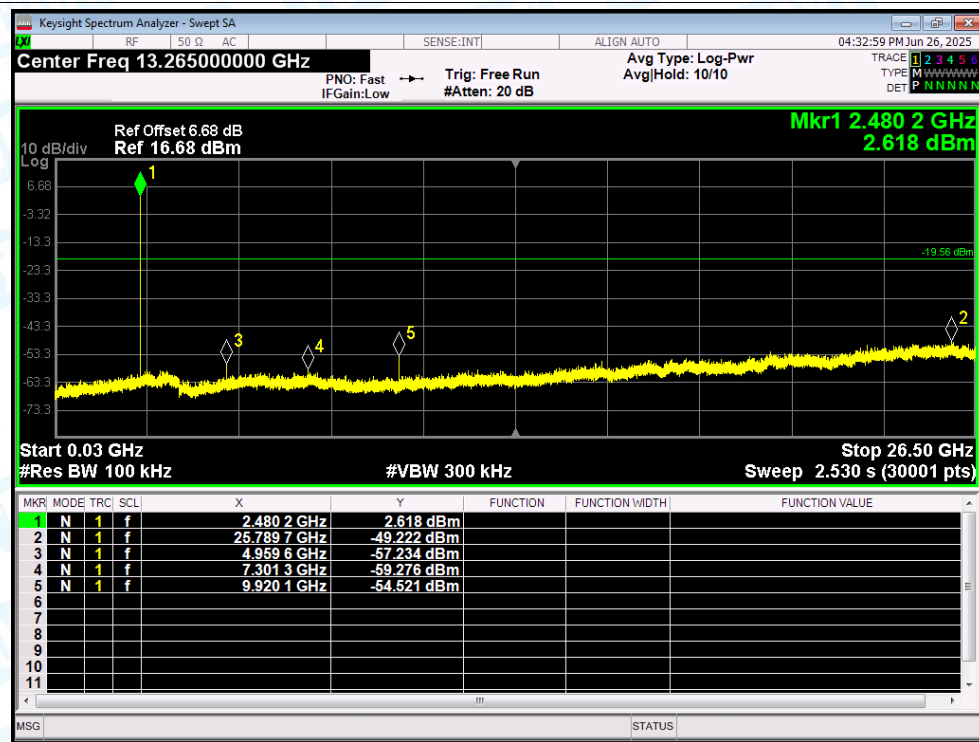
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



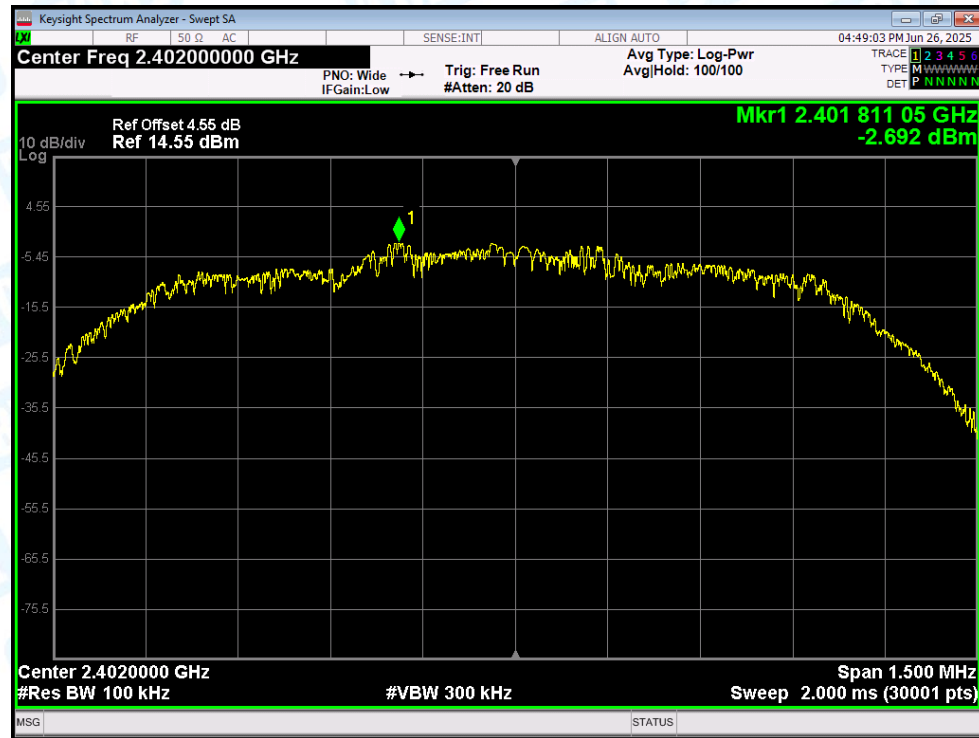
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



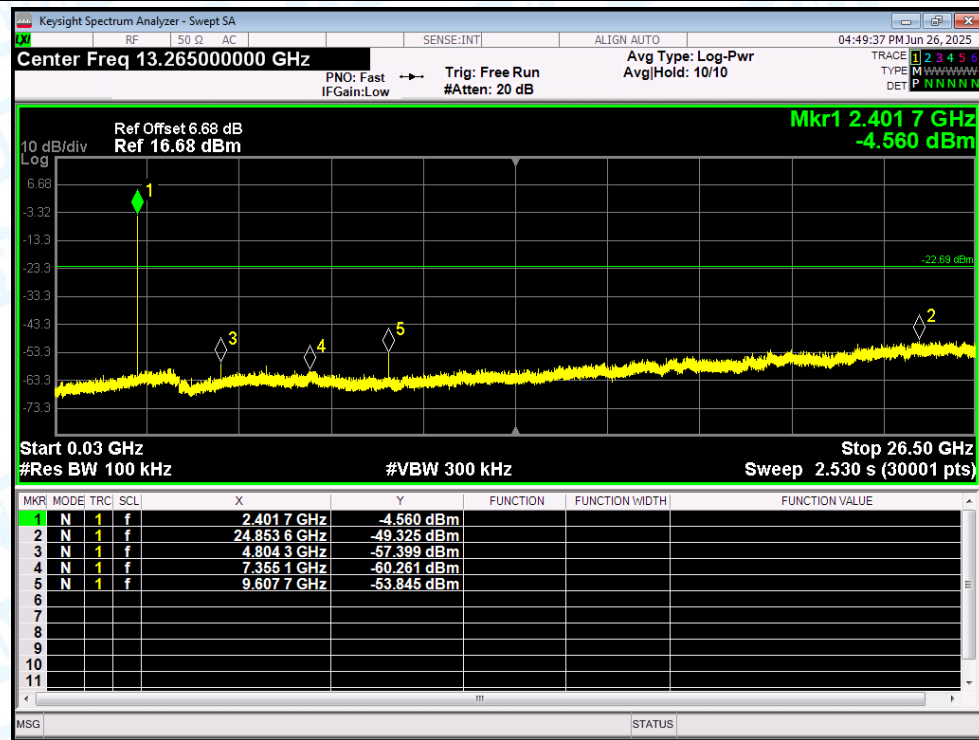
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



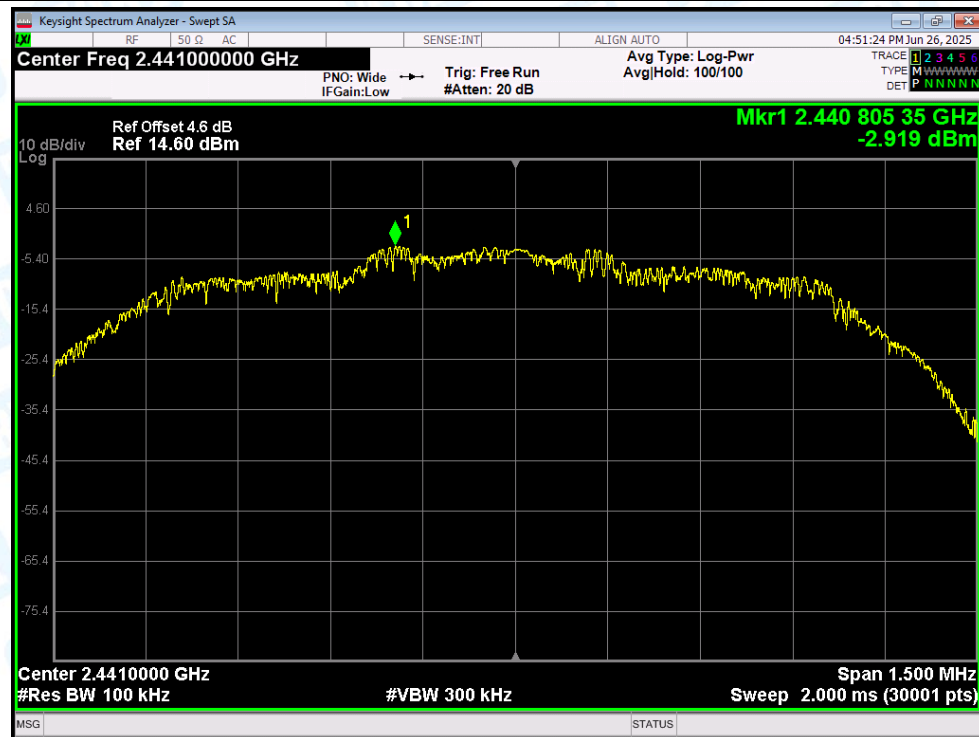
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



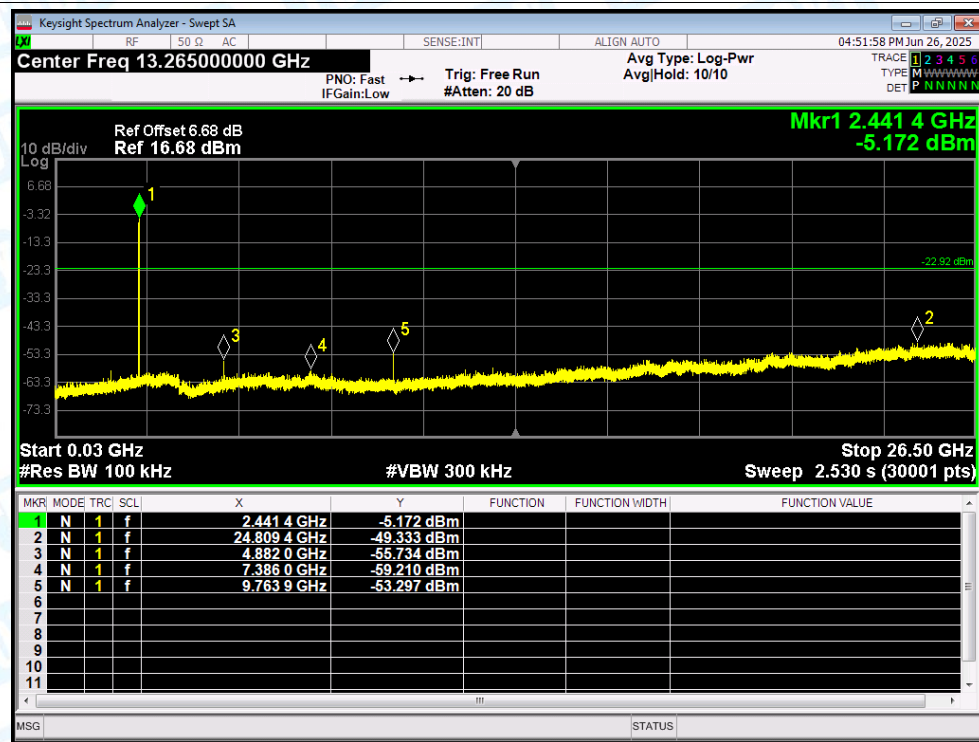
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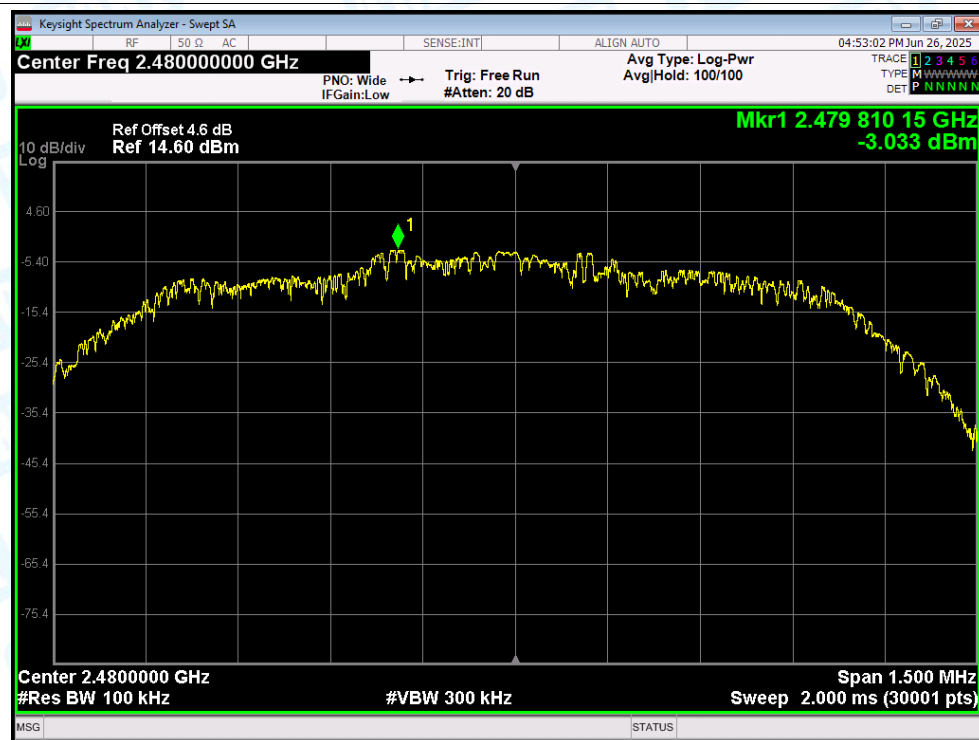
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



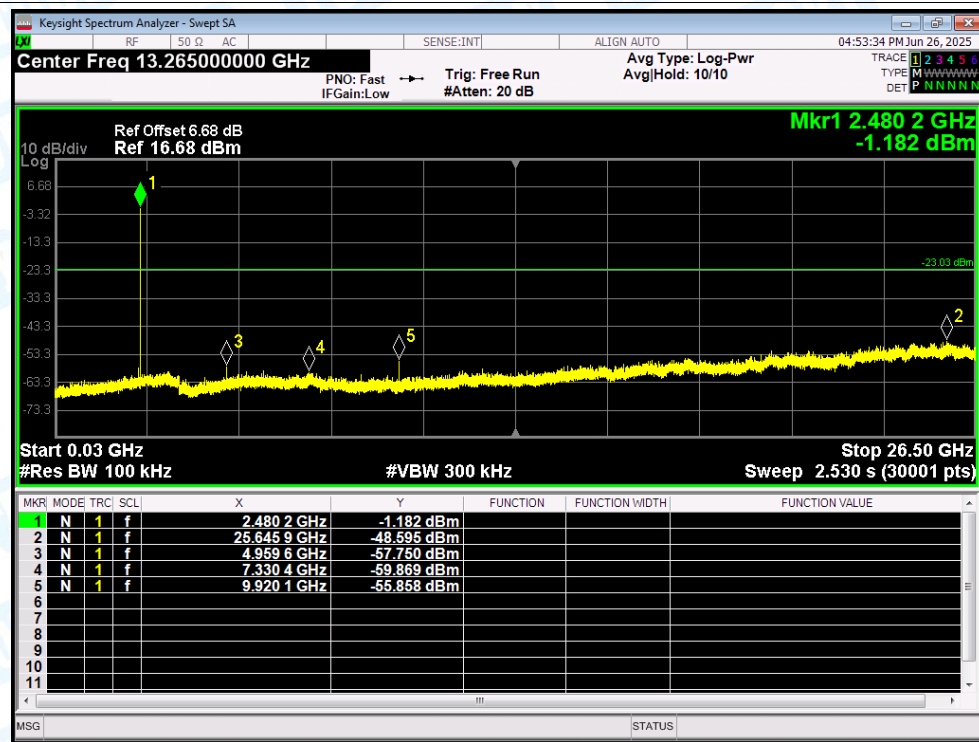
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



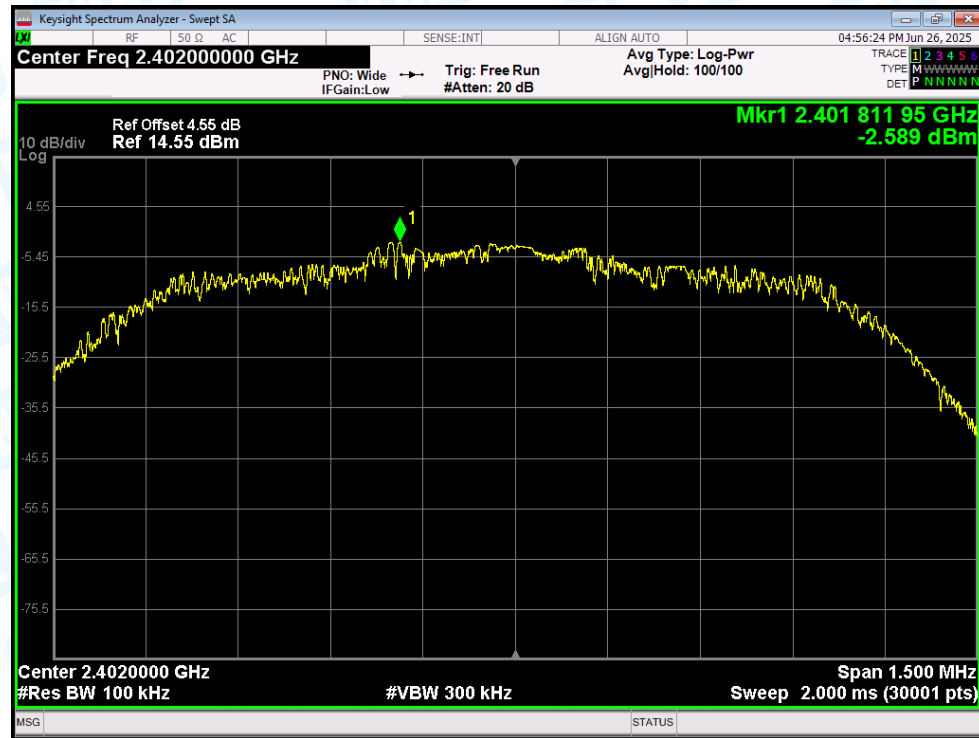
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



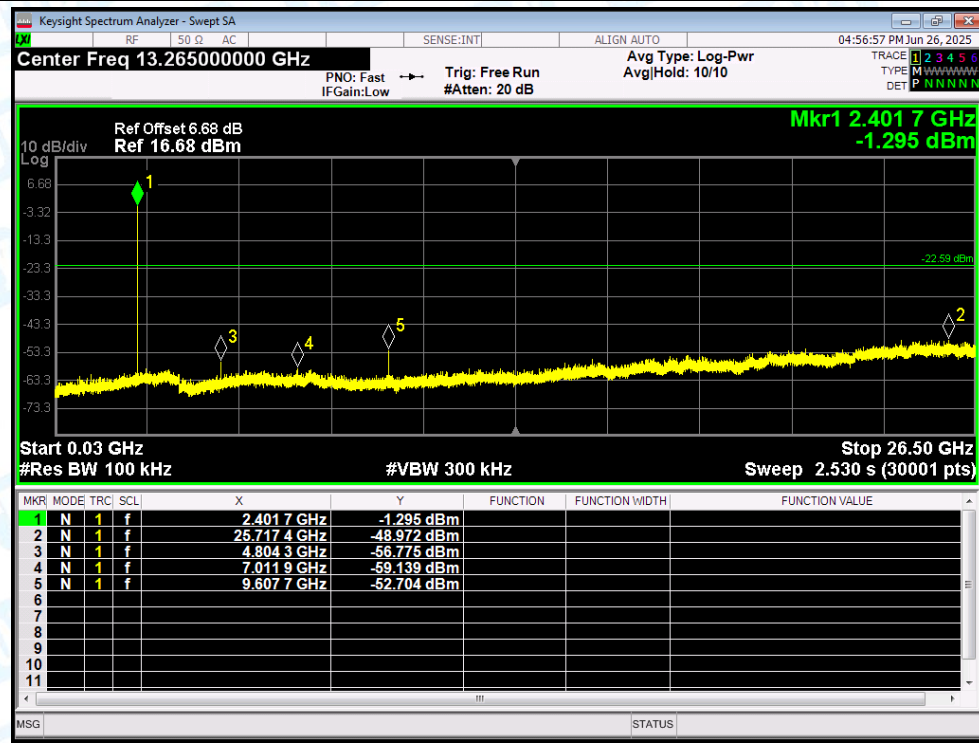
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



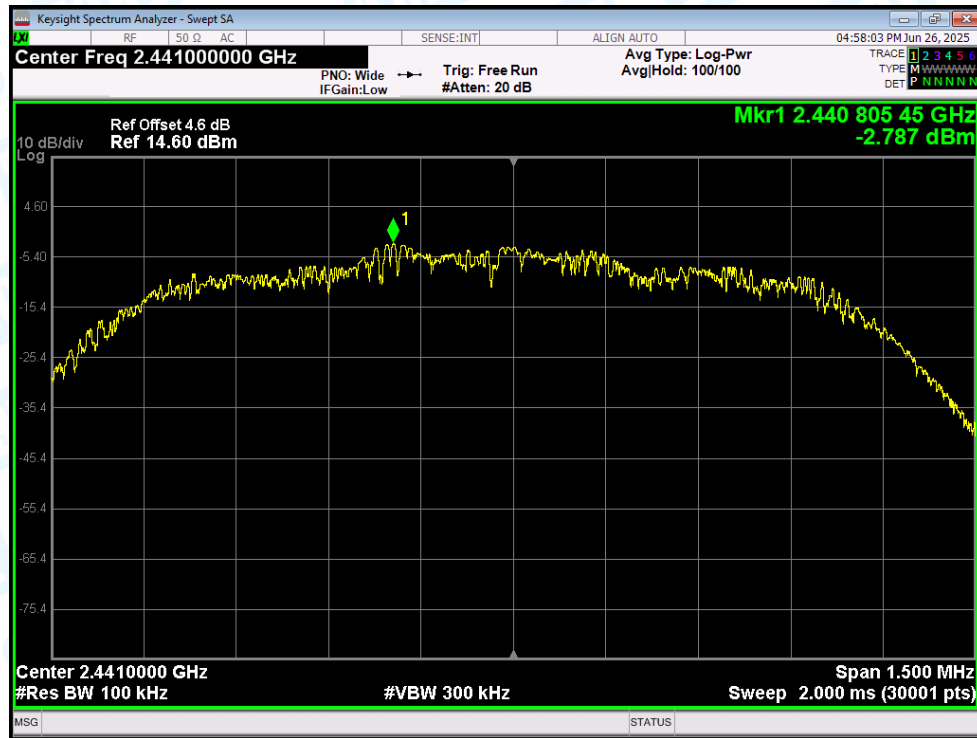
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



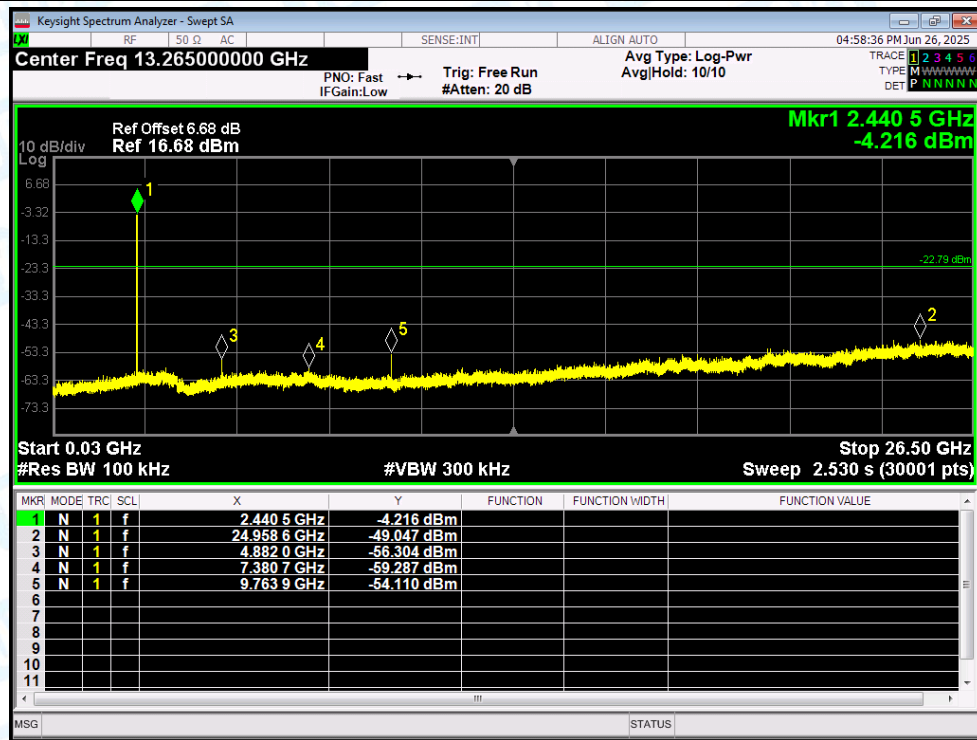
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



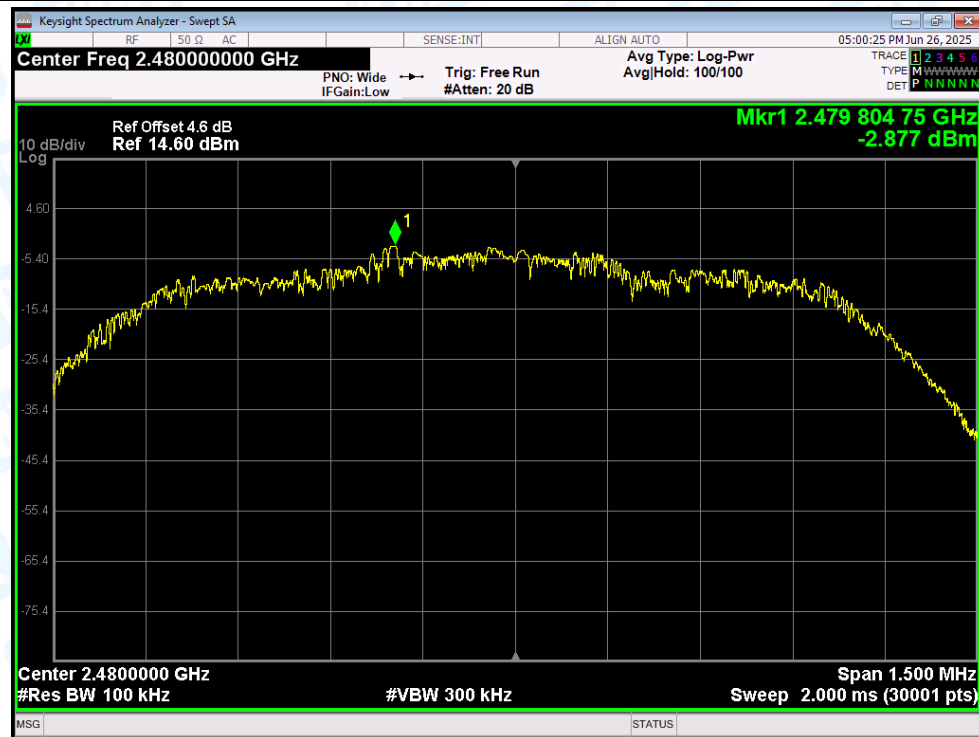
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



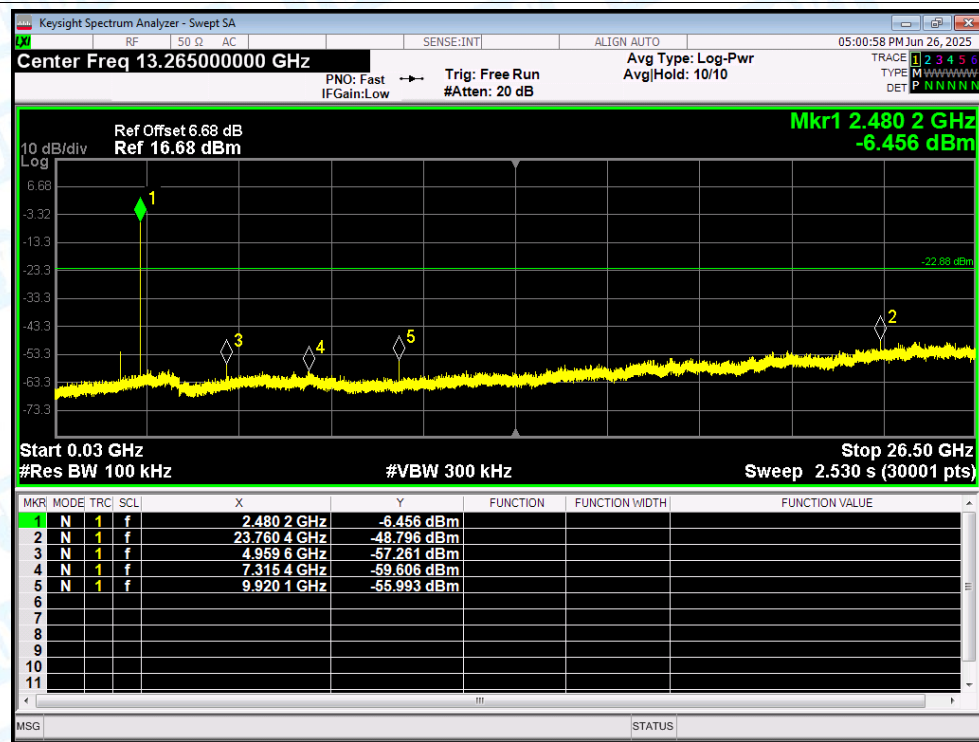
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission



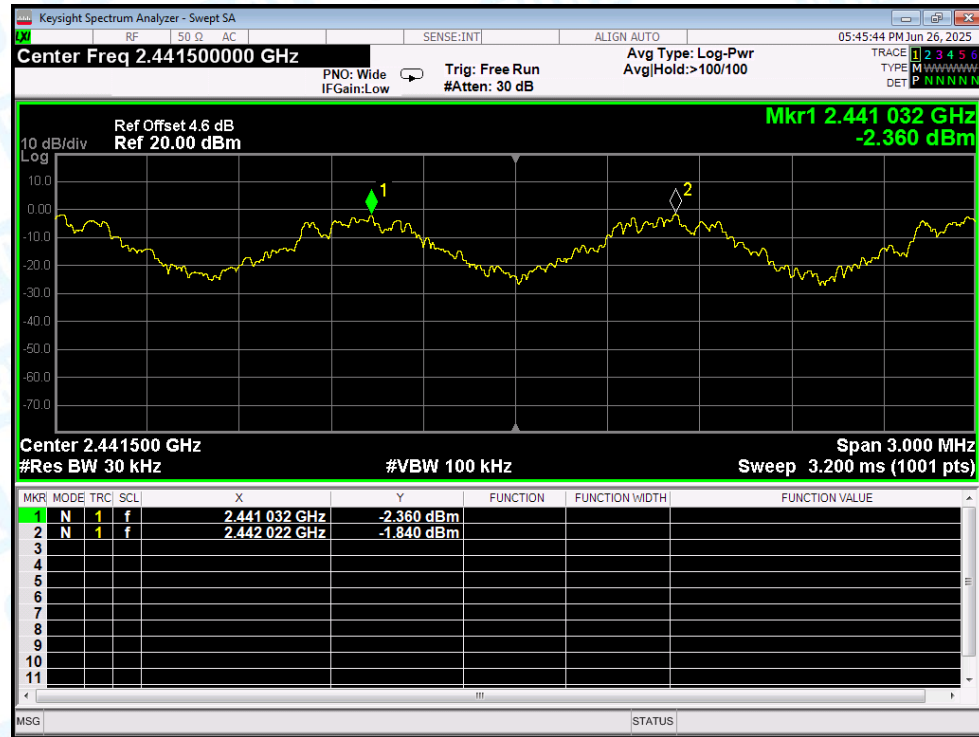
8. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.032	2442.022	0.99	0.6	Pass
NVNT	2-DH1	Ant1	2440.999	2441.992	0.993	0.84	Pass
NVNT	3-DH1	Ant1	2440.99	2441.98	0.99	0.833	Pass

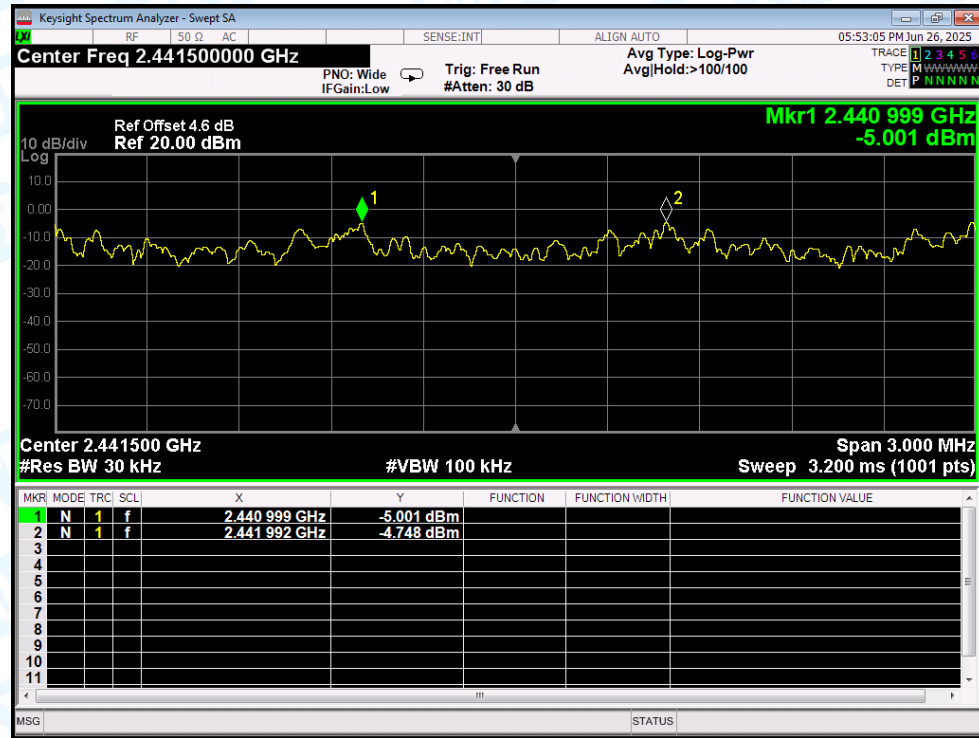
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

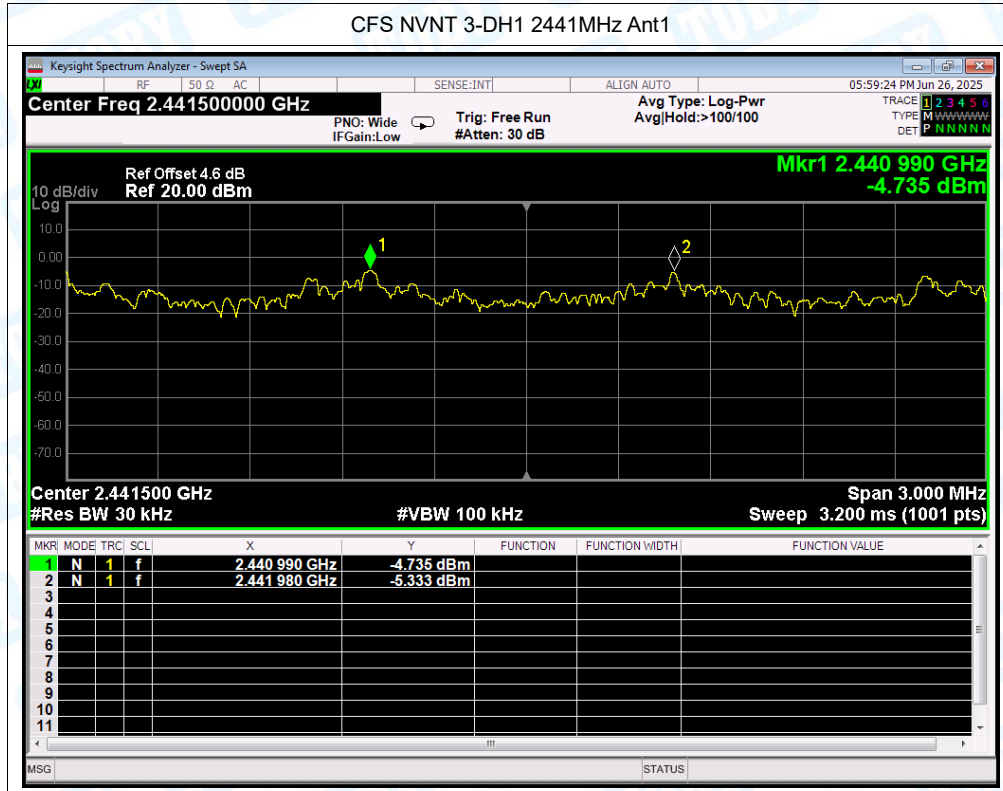
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1





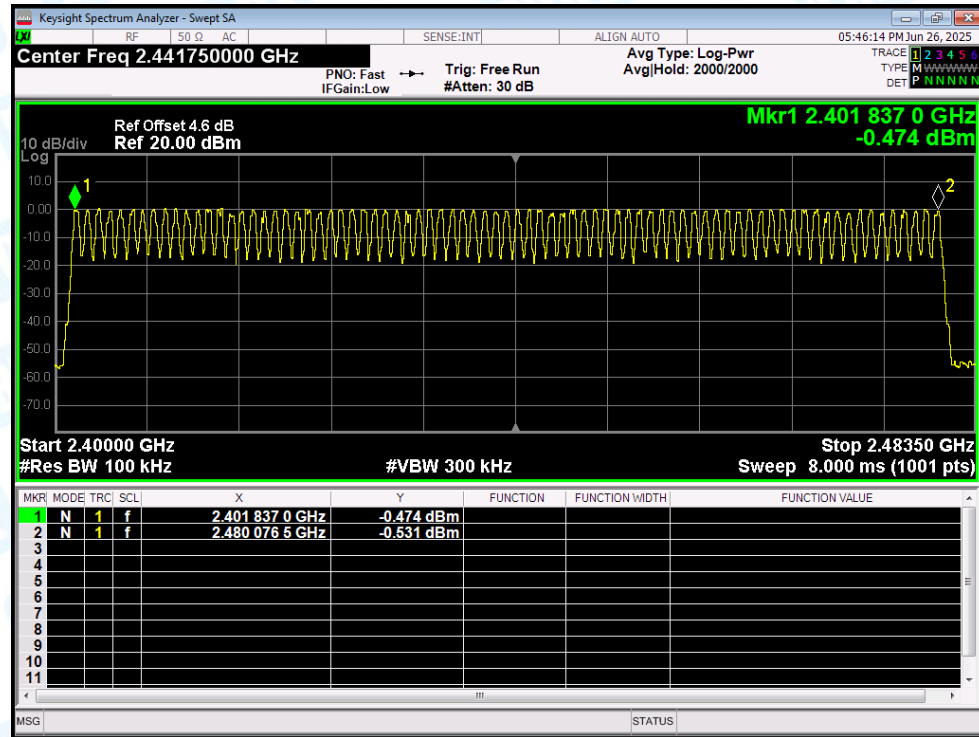
9. Number of Hopping Channel

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

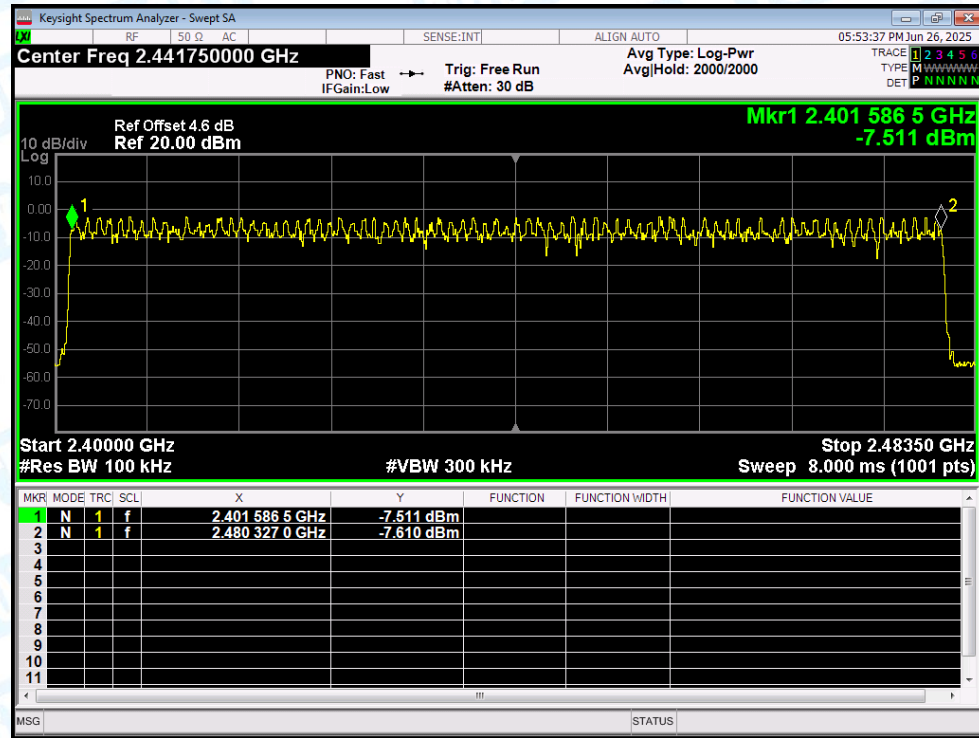
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

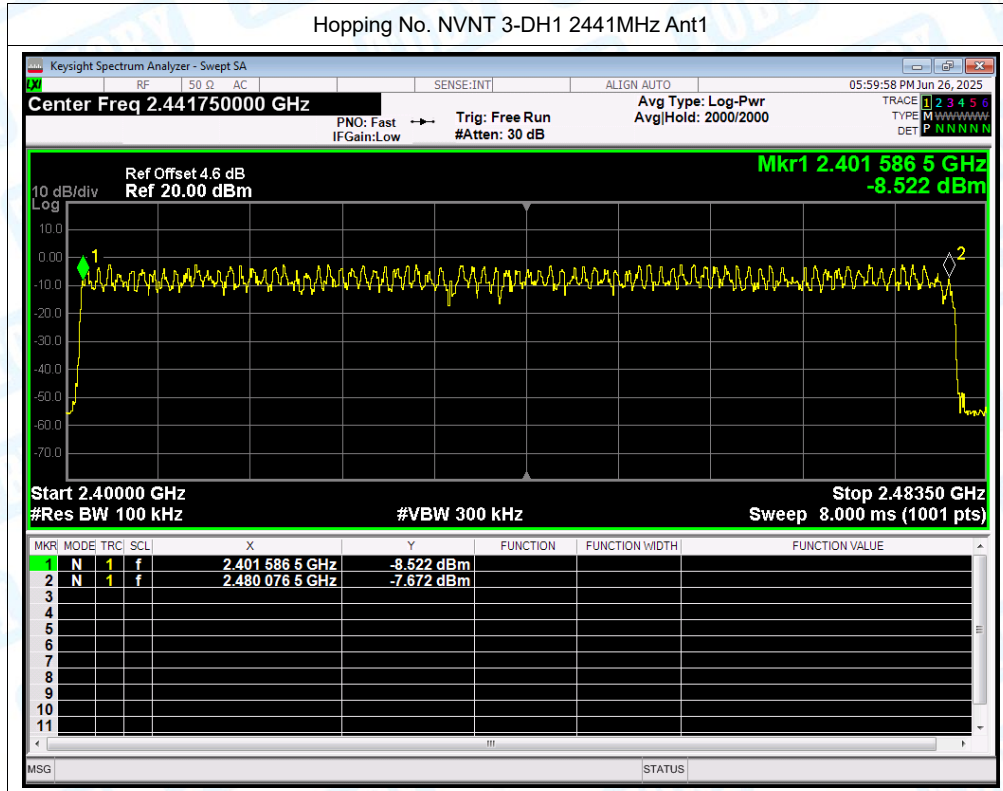
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1





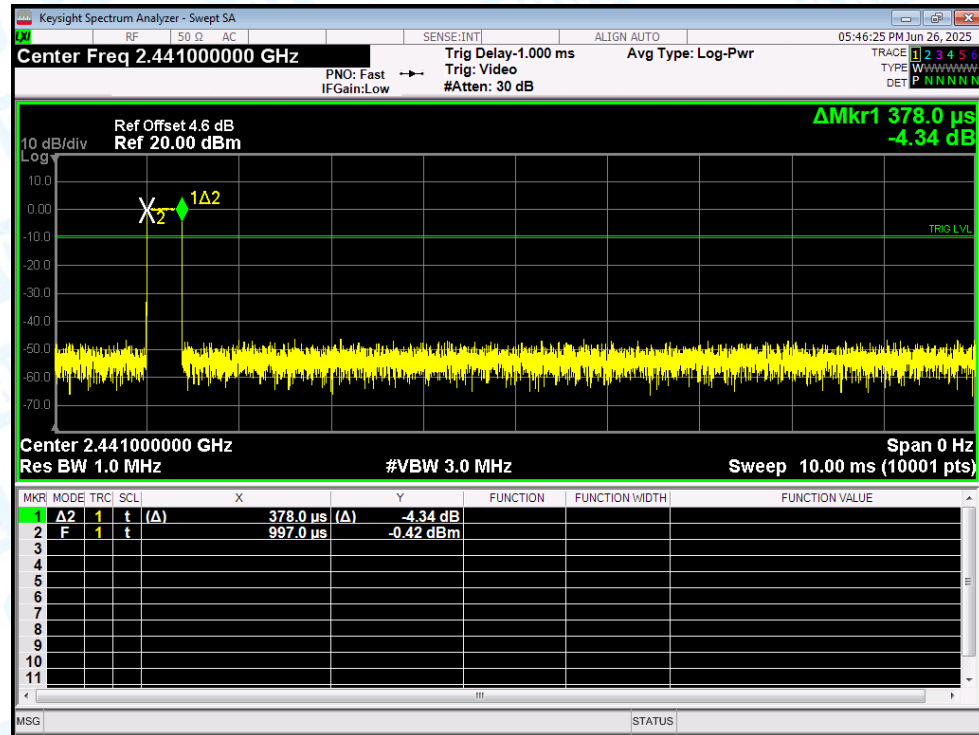
10.Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.378	120.96	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.634	261.44	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	307.413	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.388	124.16	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.64	262.4	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.888	308.053	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.388	124.16	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.638	262.08	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.89	308.267	31600	400	Pass

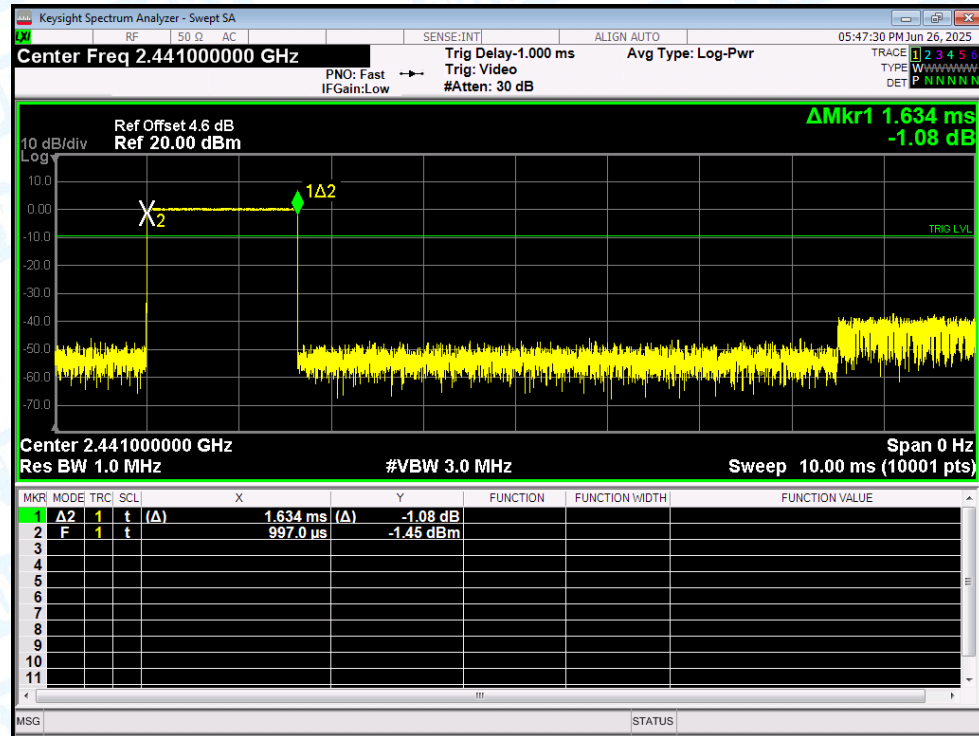
Note: input compensation coefficient (dB)= Cable Loss (dB)+ Attenuator factor

Test Graphs

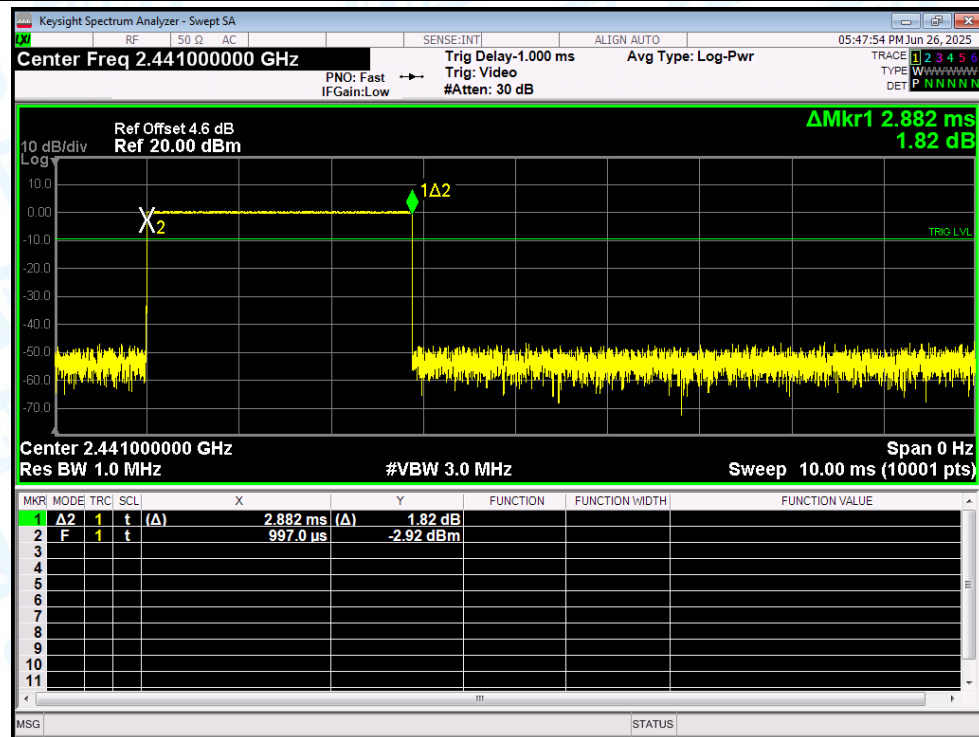
Dwell NVNT 1-DH1 2441MHz Ant1



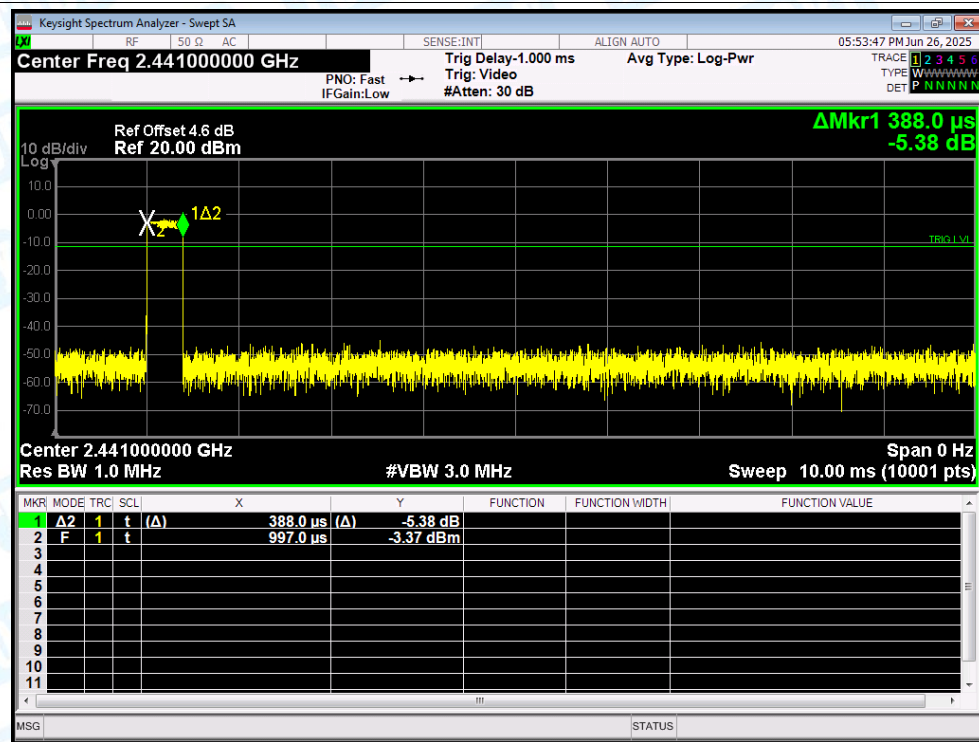
Dwell NVNT 1-DH3 2441MHz Ant1



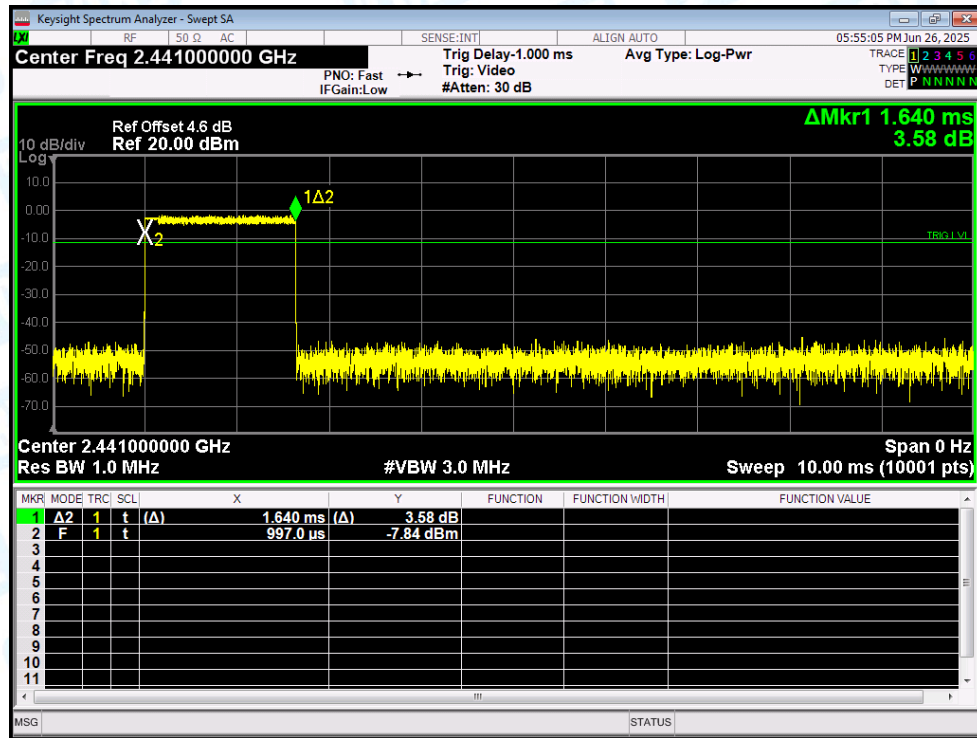
Dwell NVNT 1-DH5 2441MHz Ant1



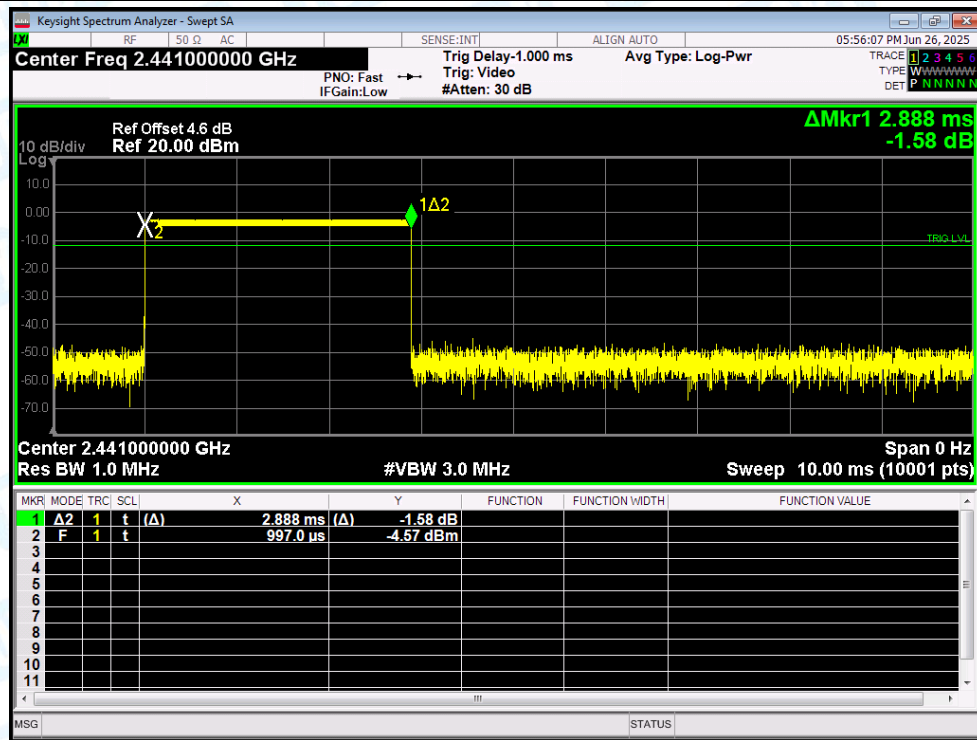
Dwell NVNT 2-DH1 2441MHz Ant1



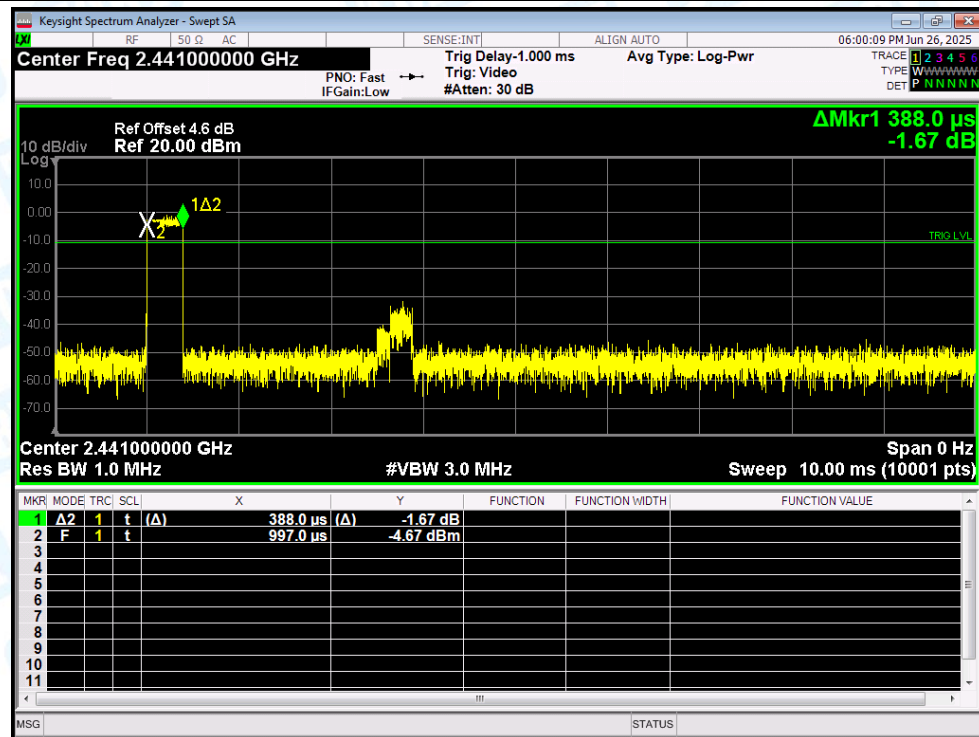
Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1

