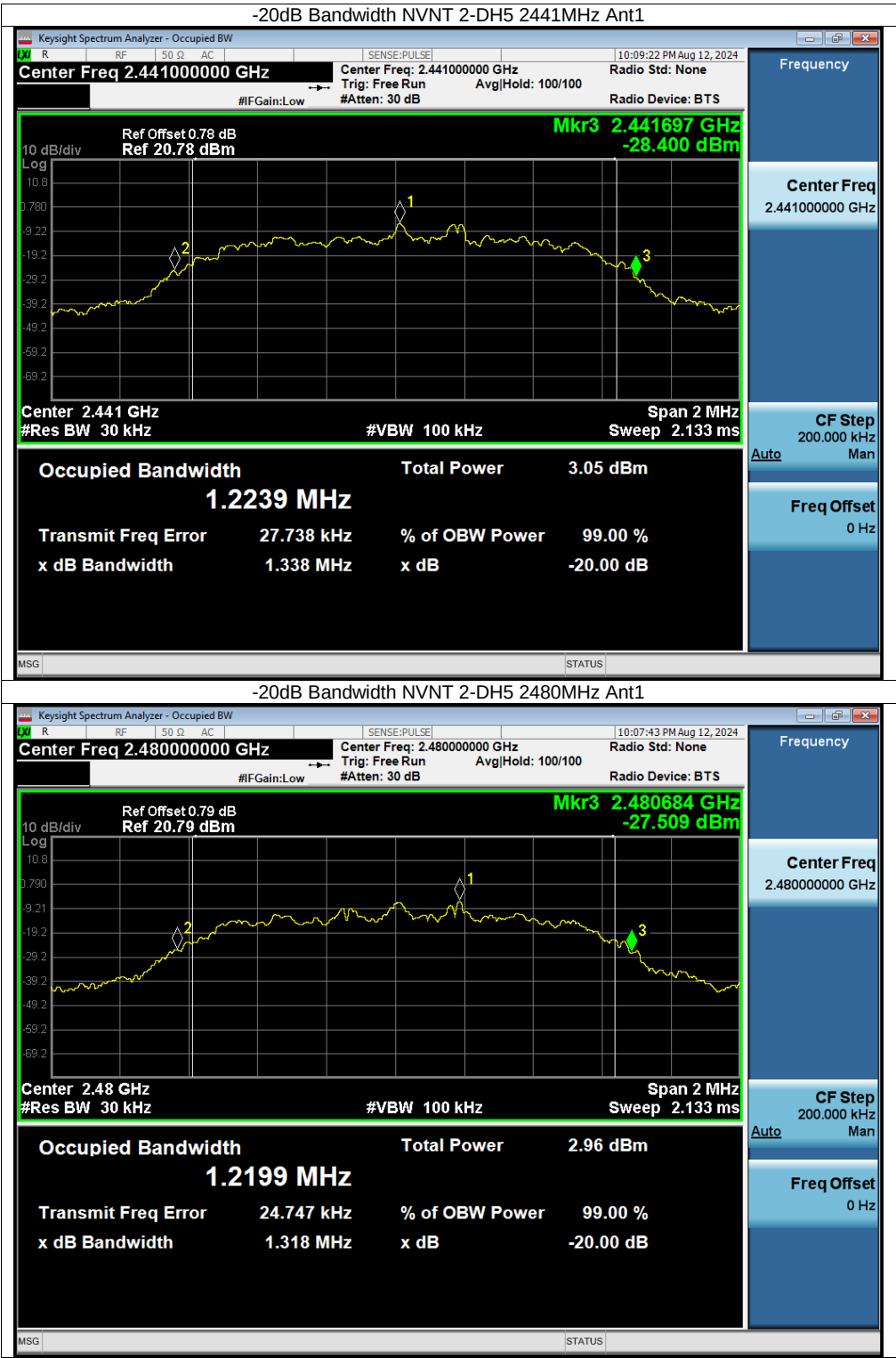
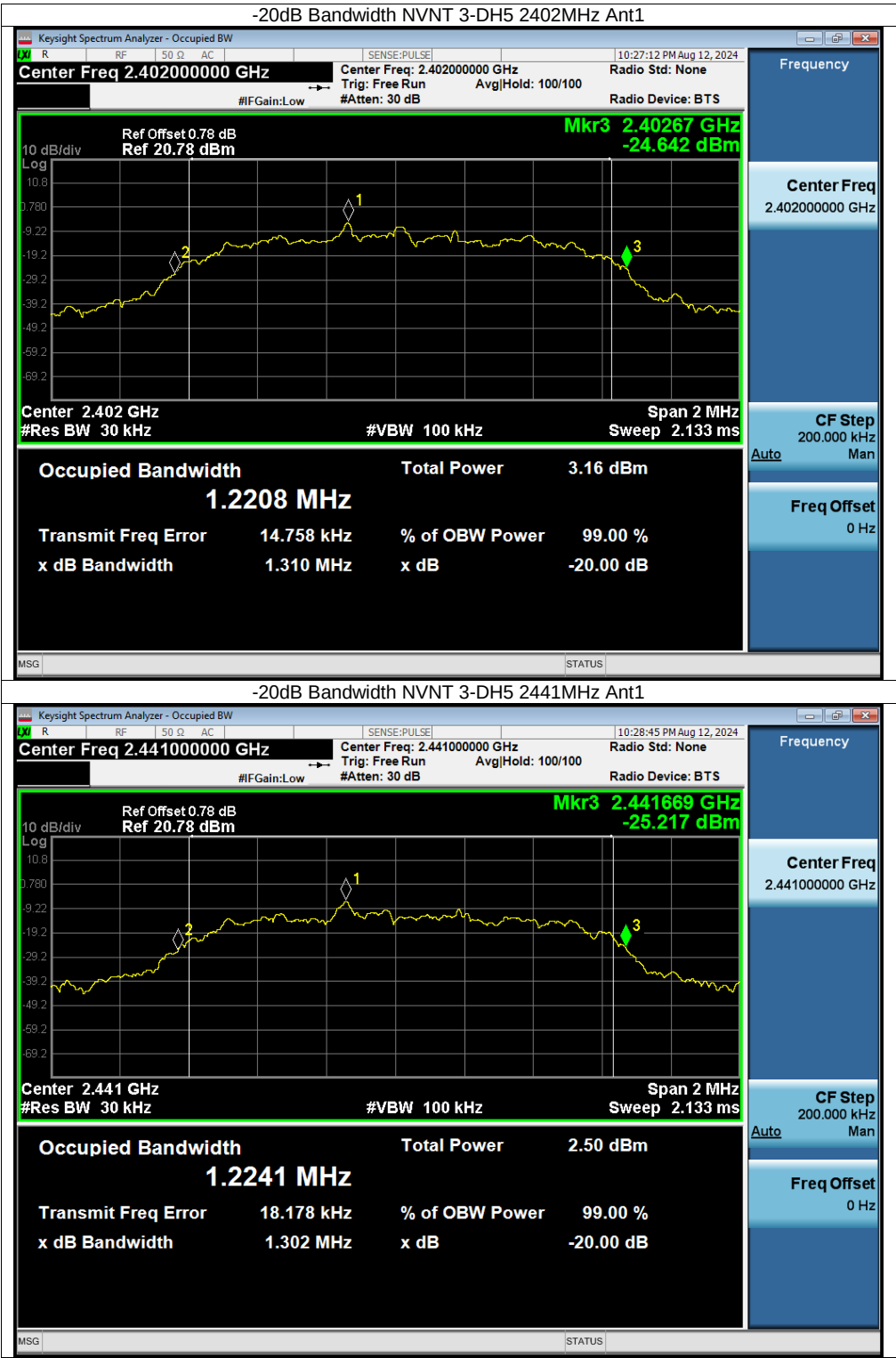


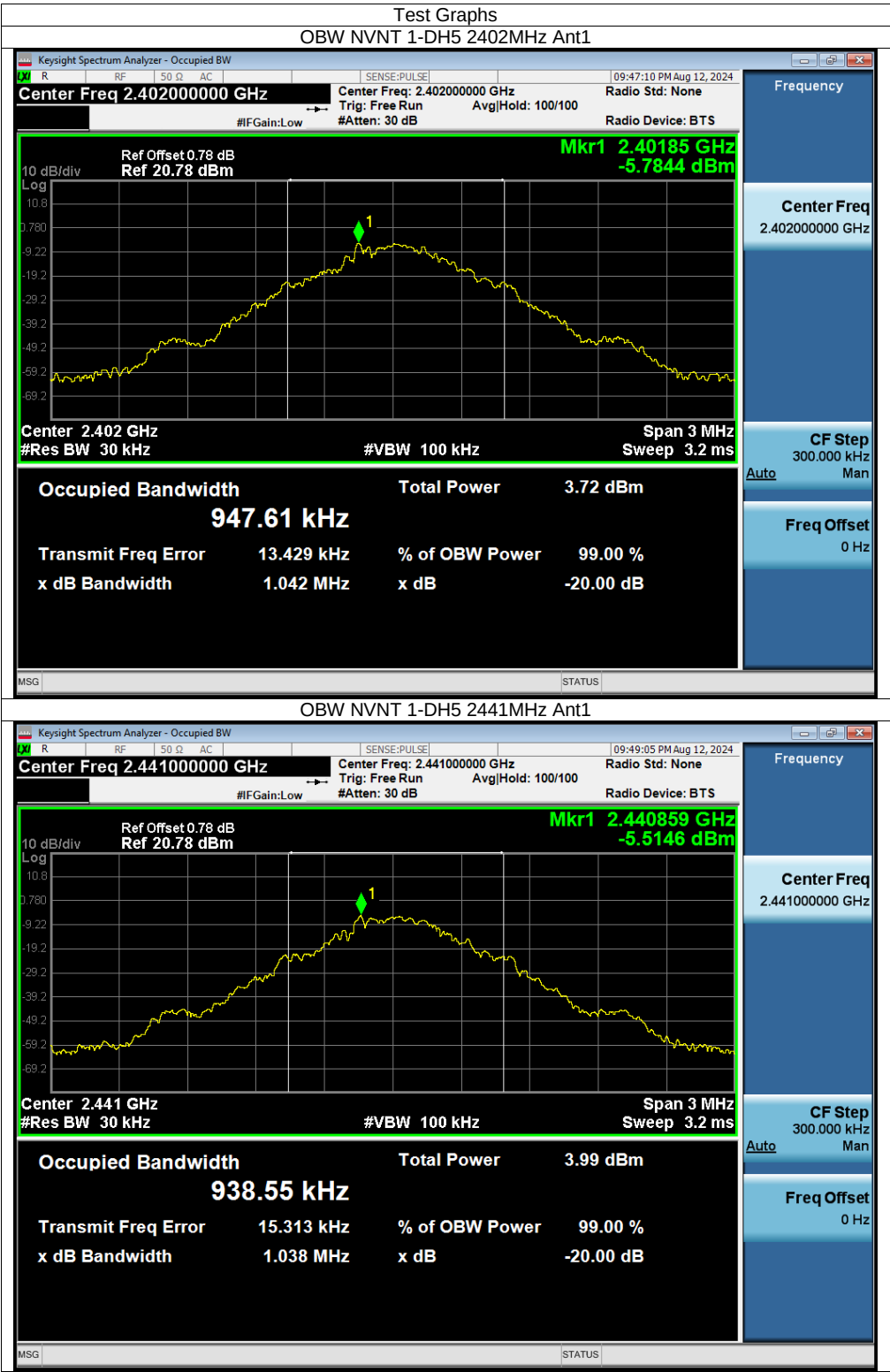






Occupied Channel Bandwidth

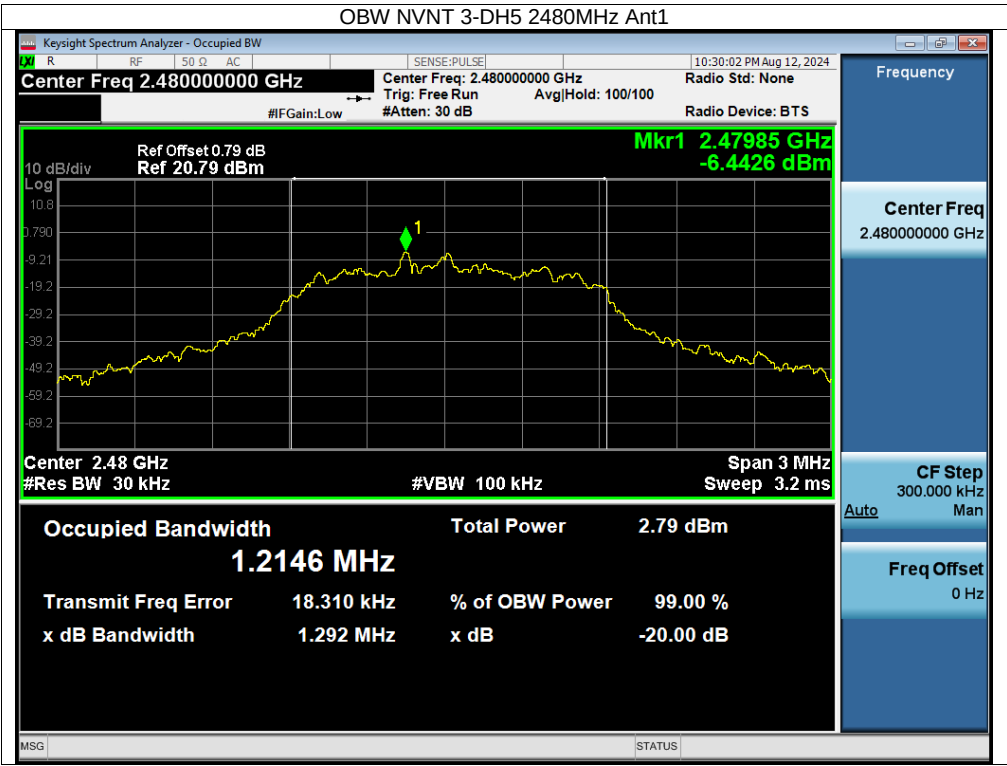
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.948
NVNT	1-DH5	2441	Ant1	0.939
NVNT	1-DH5	2480	Ant1	0.964
NVNT	2-DH5	2402	Ant1	1.22
NVNT	2-DH5	2441	Ant1	1.226
NVNT	2-DH5	2480	Ant1	1.244
NVNT	3-DH5	2402	Ant1	1.226
NVNT	3-DH5	2441	Ant1	1.225
NVNT	3-DH5	2480	Ant1	1.215





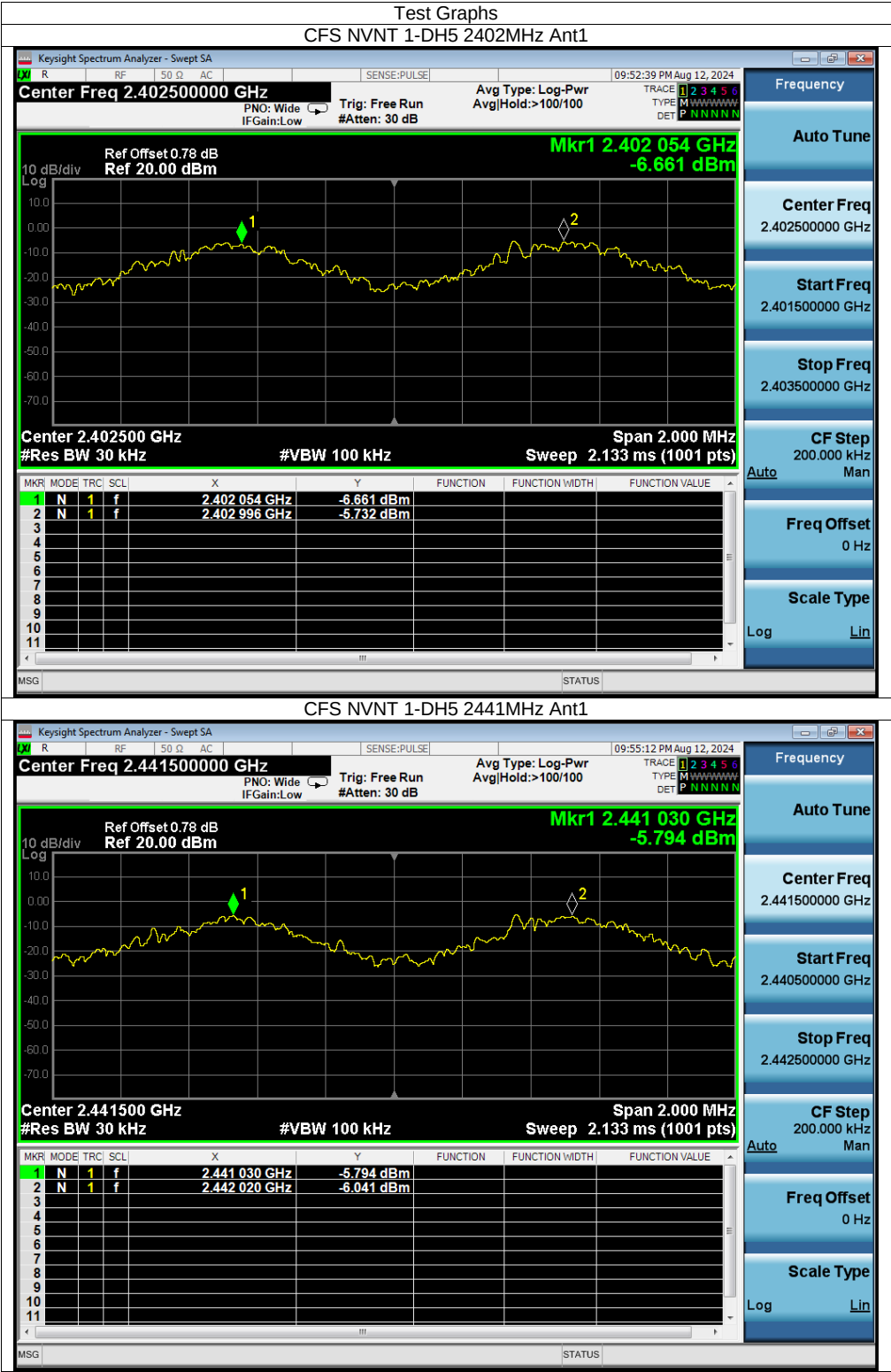


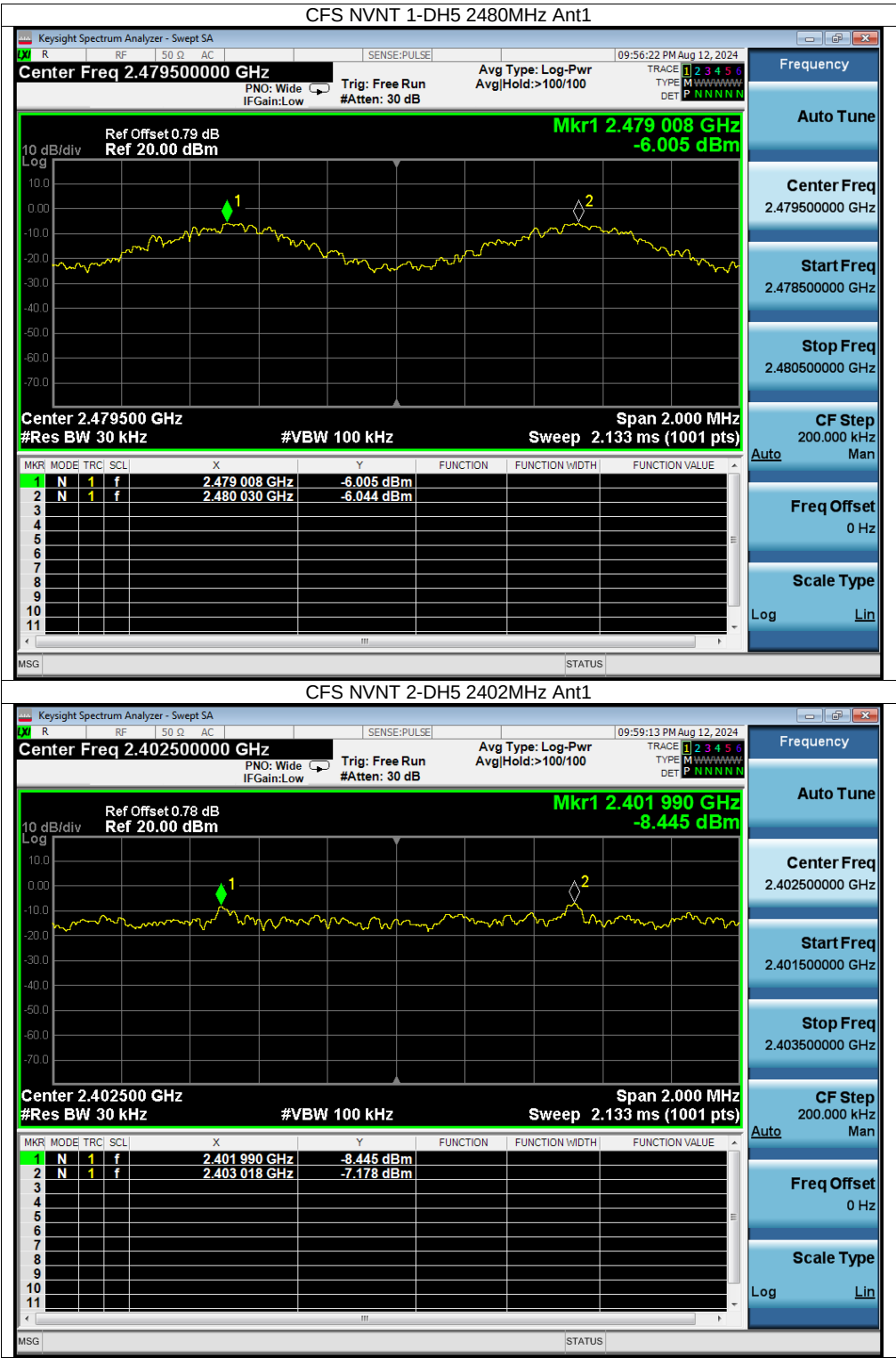


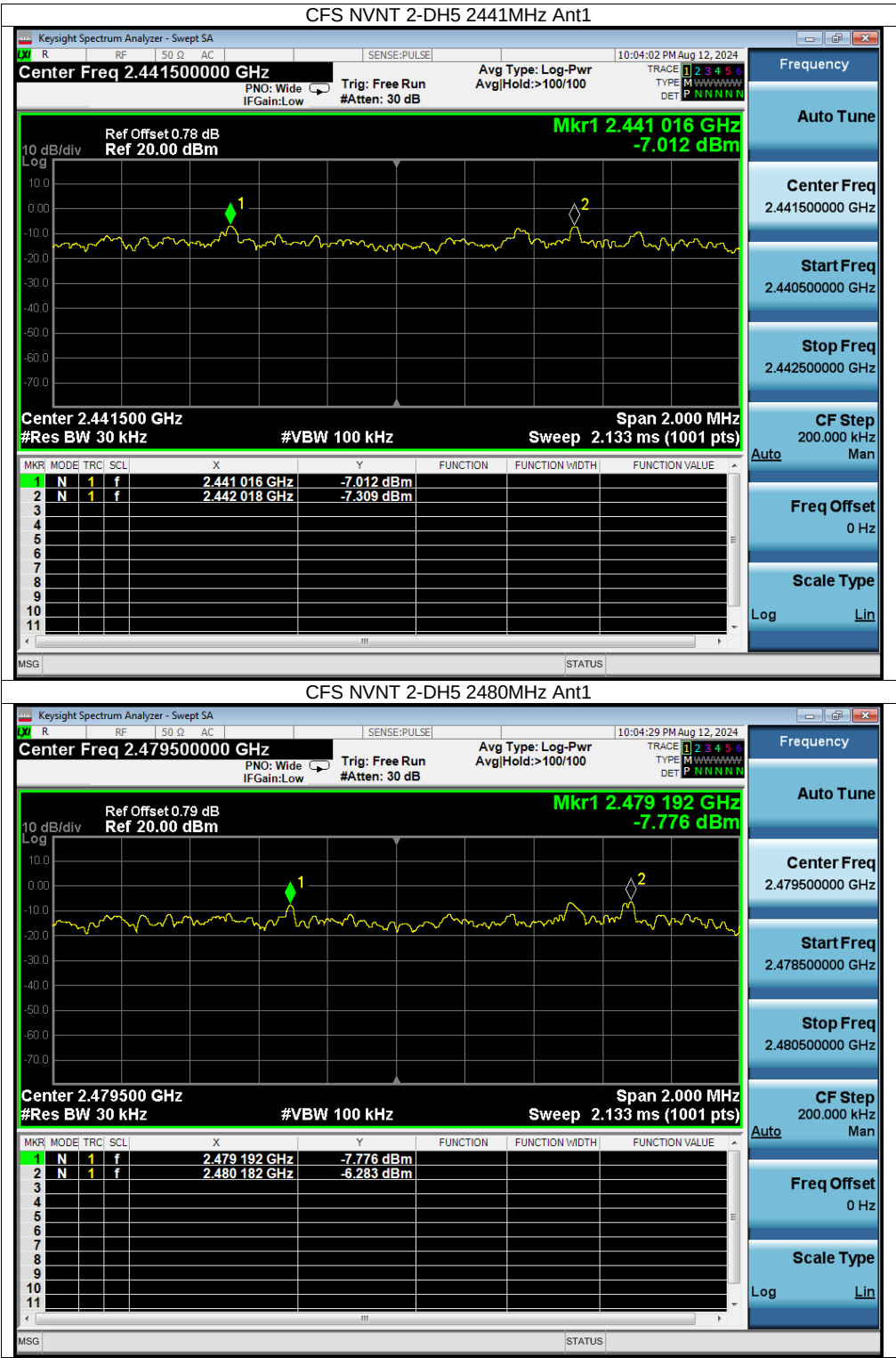


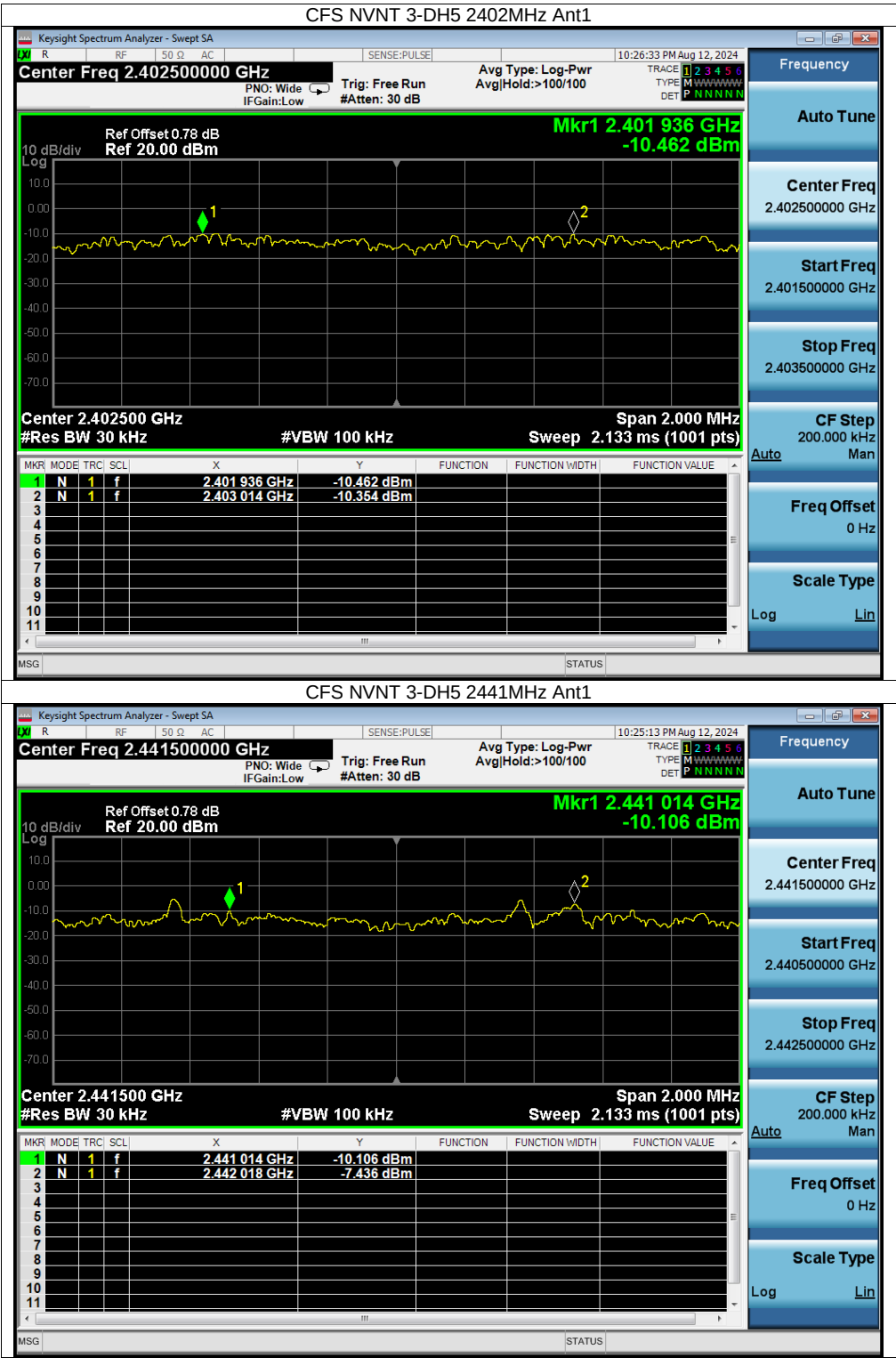
Carrier Frequencies Separation

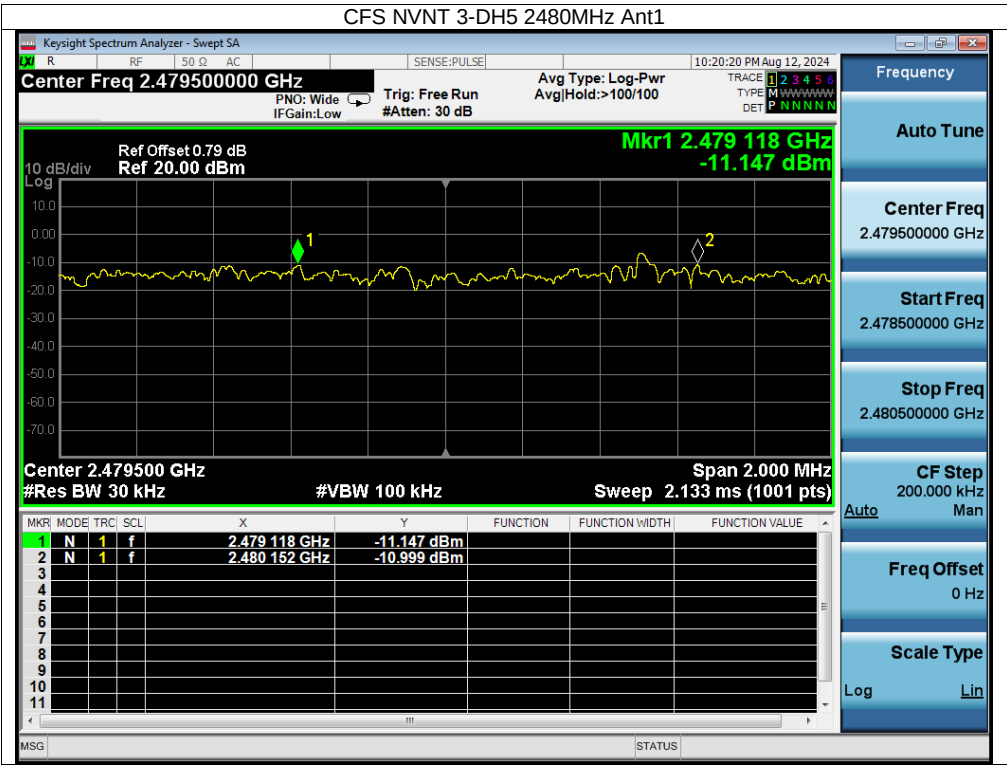
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.054	2402.996	0.942	0.693	Pass
NVNT	1-DH5	Ant1	2441.03	2442.02	0.99	0.7	Pass
NVNT	1-DH5	Ant1	2479.008	2480.03	1.022	0.707	Pass
NVNT	2-DH5	Ant1	2401.99	2403.018	1.028	0.025	Pass
NVNT	2-DH5	Ant1	2441.016	2442.018	1.002	0.025	Pass
NVNT	2-DH5	Ant1	2479.192	2480.182	0.99	0.025	Pass
NVNT	3-DH5	Ant1	2401.936	2403.014	1.078	0.025	Pass
NVNT	3-DH5	Ant1	2441.014	2442.018	1.004	0.025	Pass
NVNT	3-DH5	Ant1	2479.118	2480.152	1.034	0.025	Pass





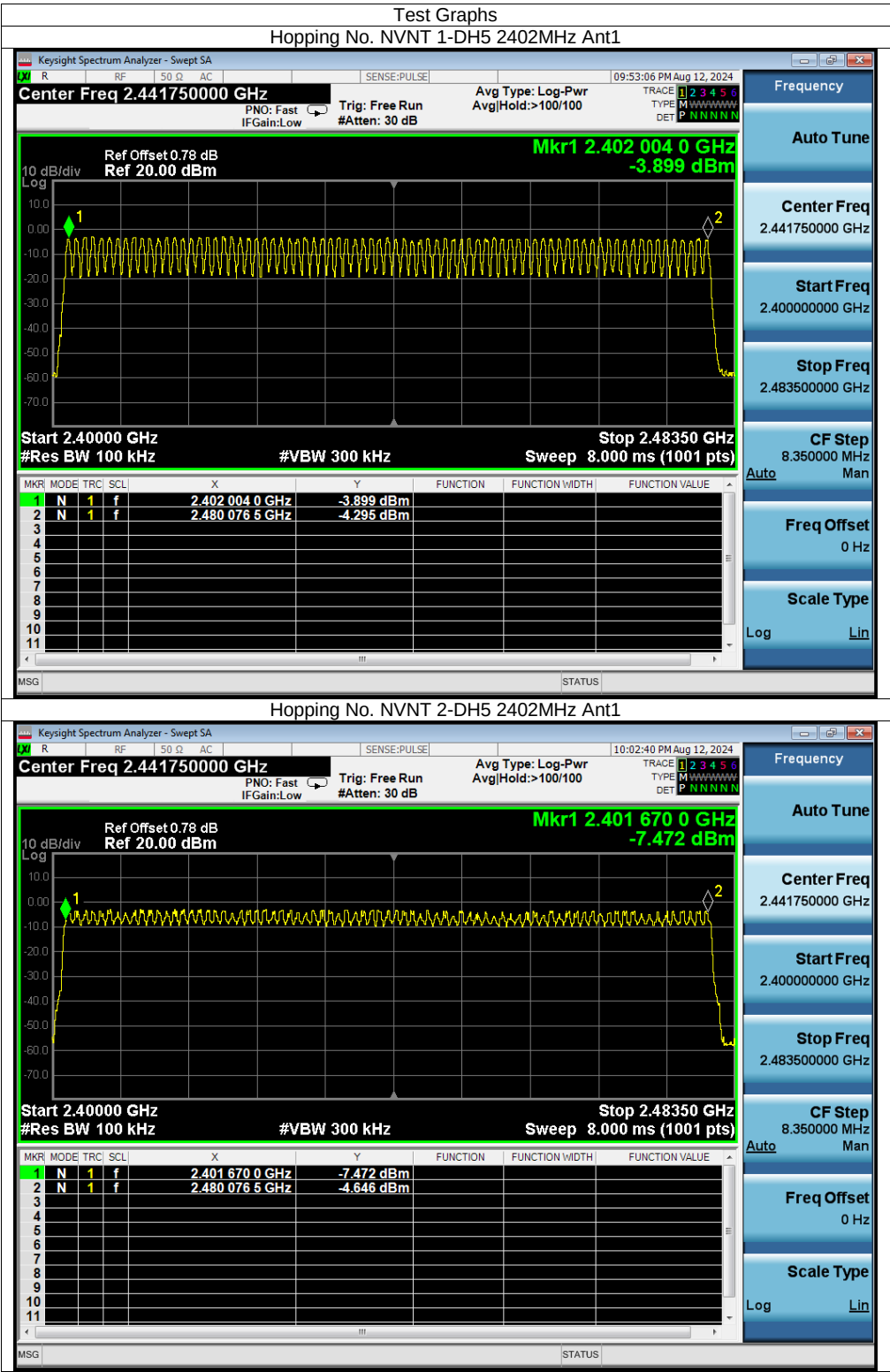


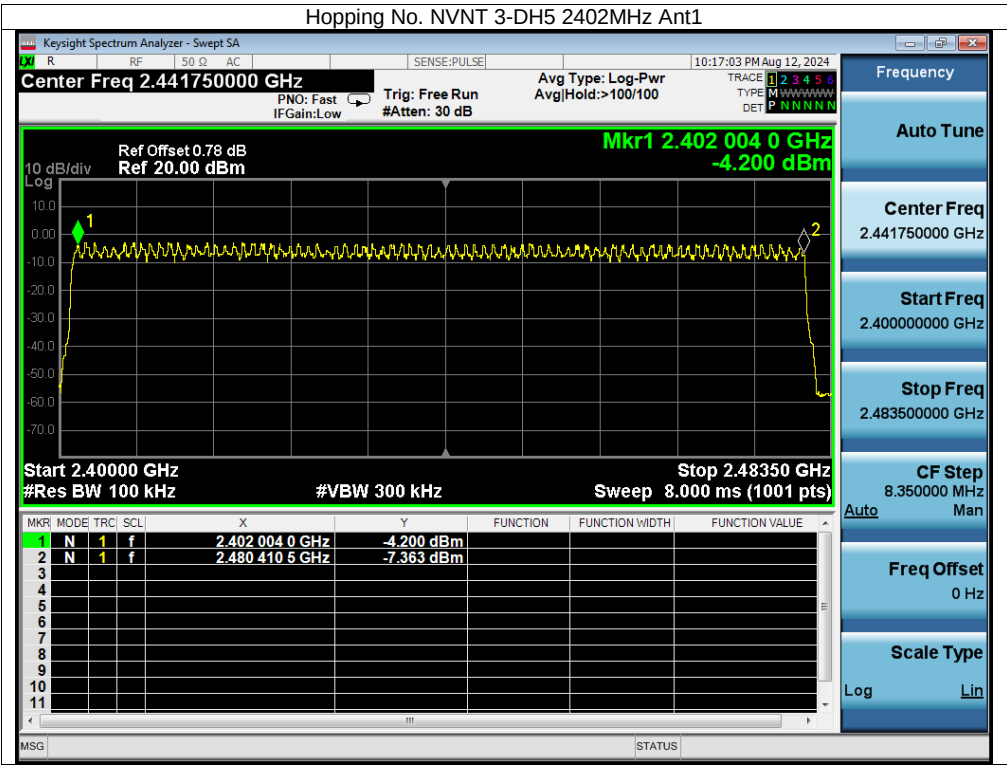




Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

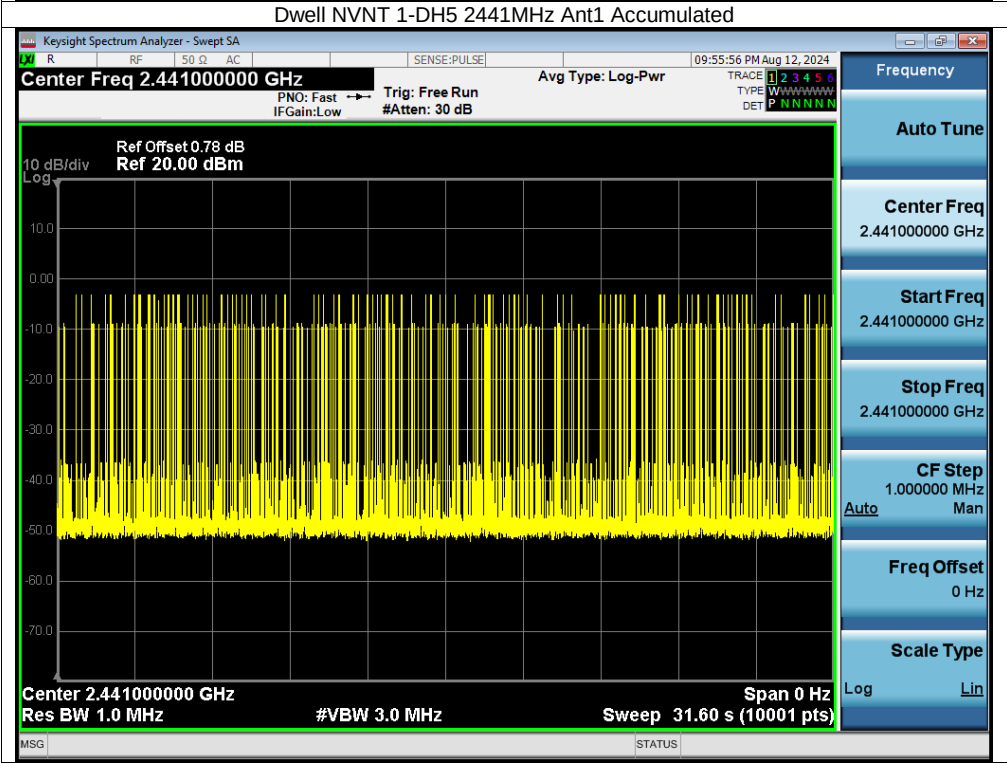
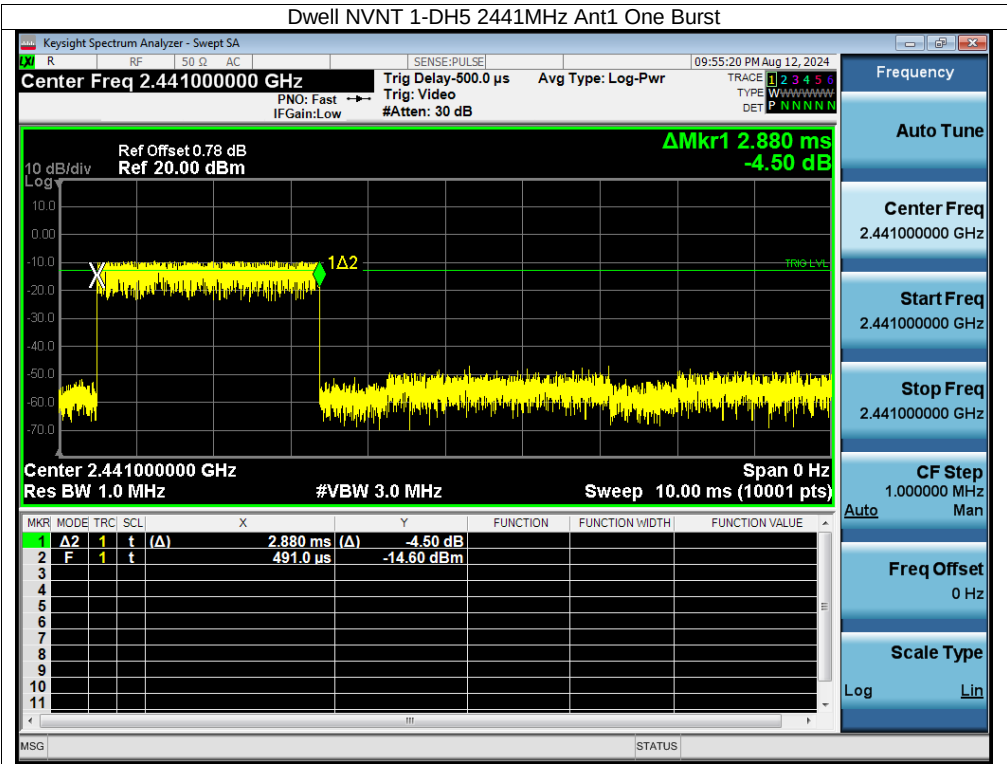


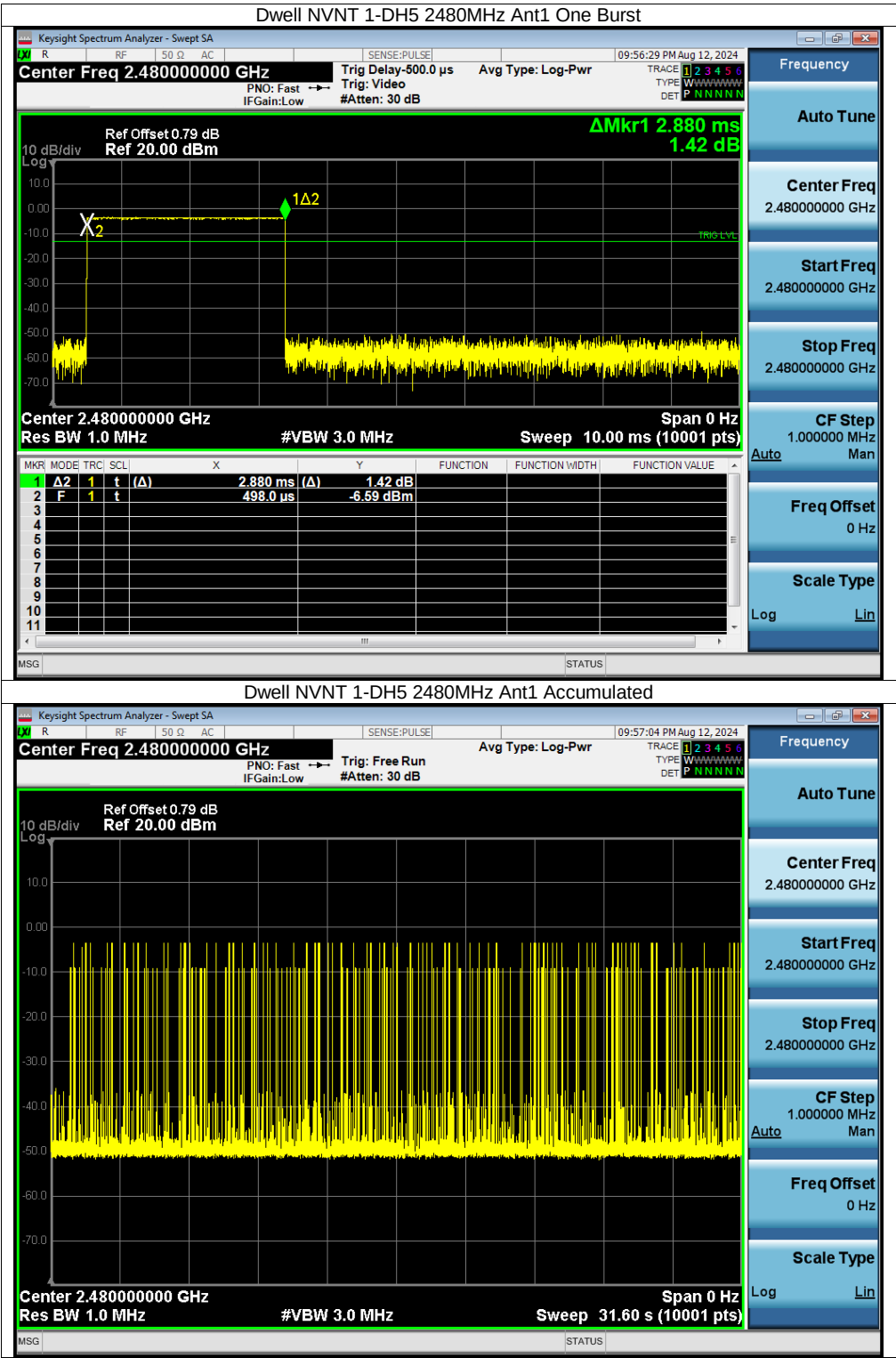


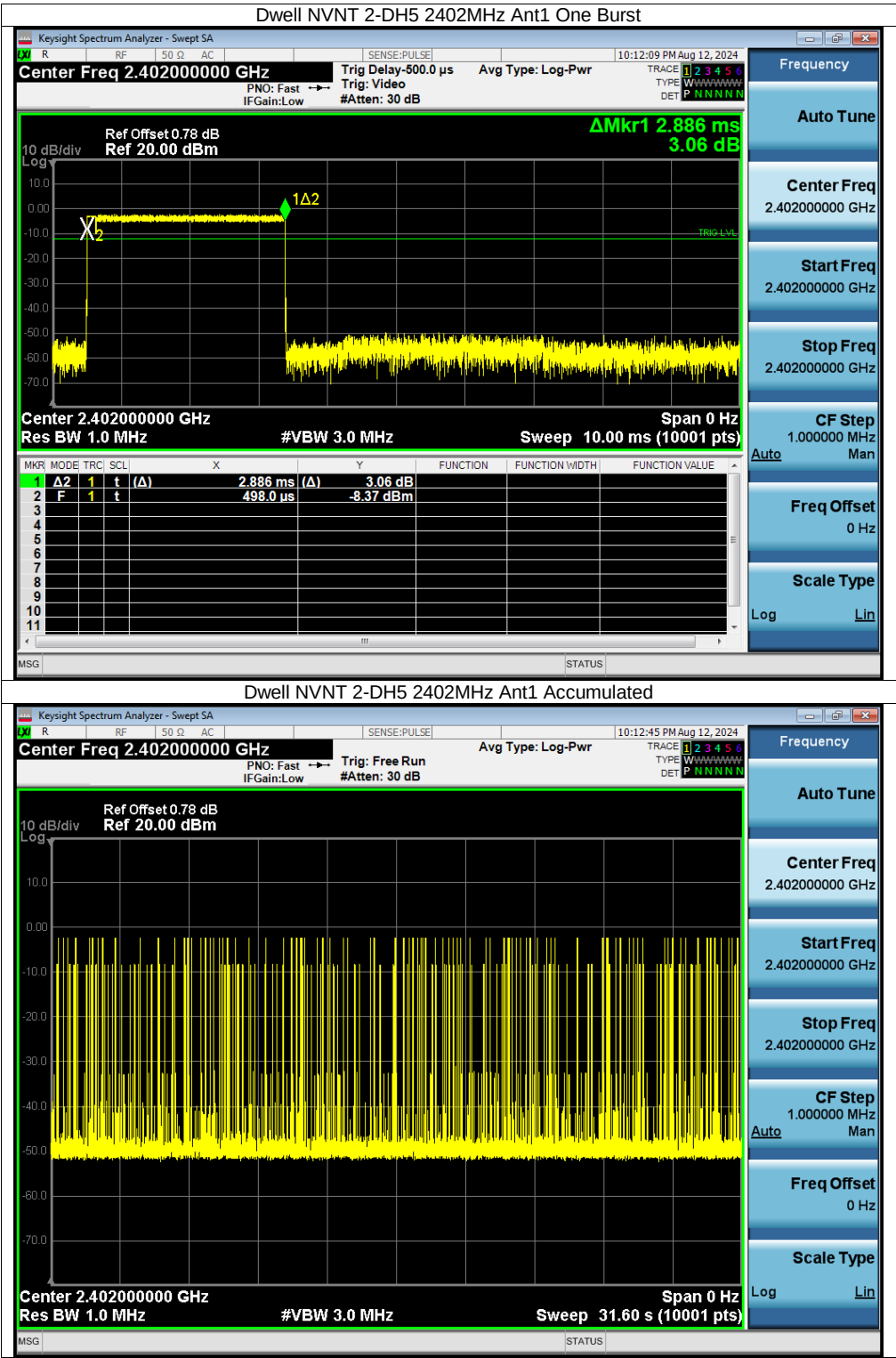
Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.88	293.76	102	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.88	339.84	118	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.88	285.12	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	294.372	102	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.887	323.344	112	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.886	331.89	115	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.888	259.92	90	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	360.875	125	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	300.248	104	31600	400	Pass









Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

10:12:45 PM Aug 12, 2024

Center Freq 2.402000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

RF

50 Q

AC

SENSE:PULSE

Trig: Free Run

Trig: Fast

PNO: Fast

IFGain:Low

#Atten: 30 dB

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P N N N N N

Ref Offset 0.78 dB

Ref 20.00 dBm

Center 2.402000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 31.60 s (10001 pts)

Span 0 Hz

MSG STATUS

Frequency

Auto Tune

Center Freq 2.402000000 GHz

Start Freq 2.402000000 GHz

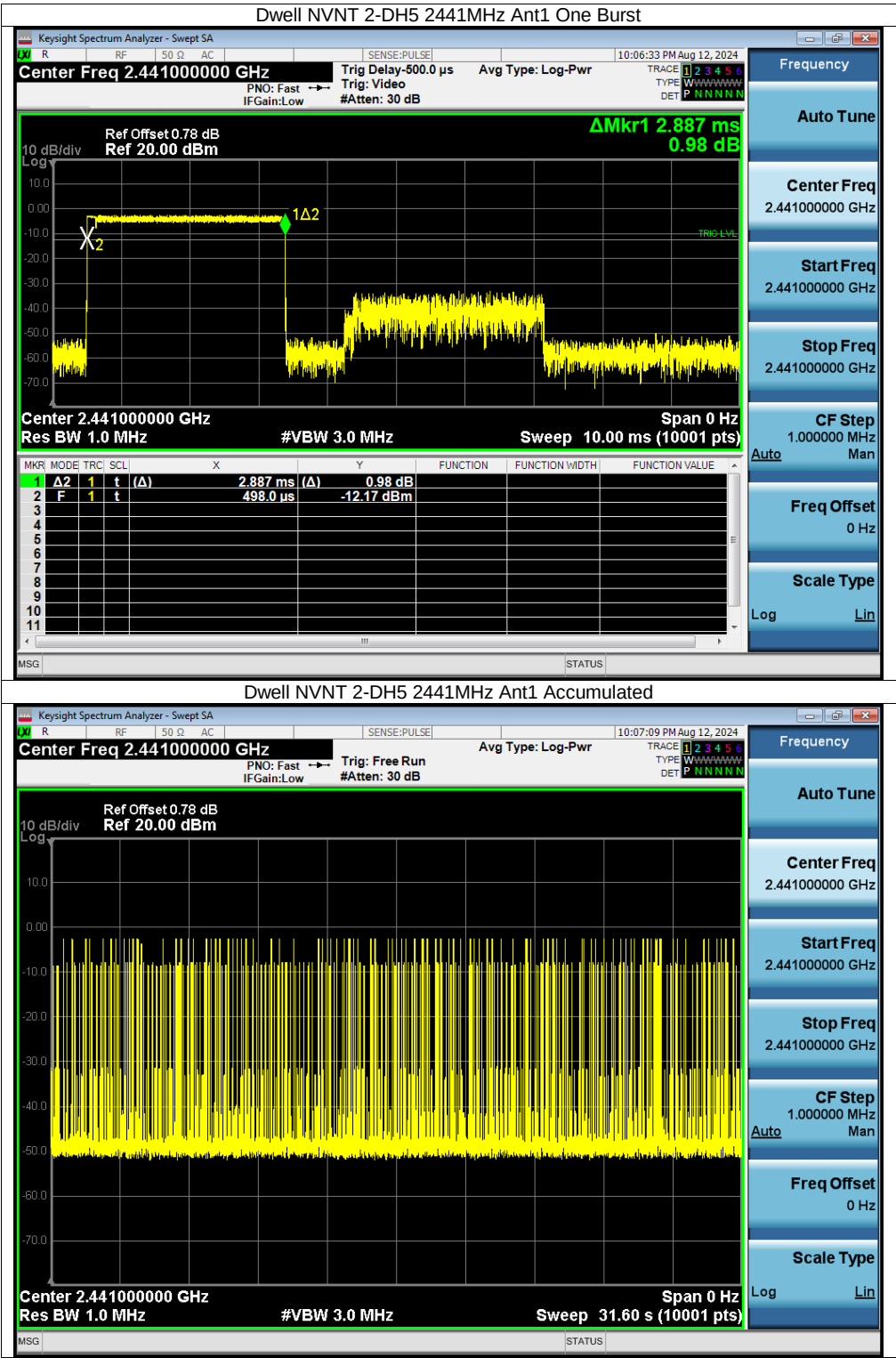
Stop Freq 2.402000000 GHz

CF Step 1.000000 MHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin



Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

Trig: Free Run

PNO: Fast

IFGain:Low

#Atten: 30 dB

10:07:09 PM Aug 12, 2024

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

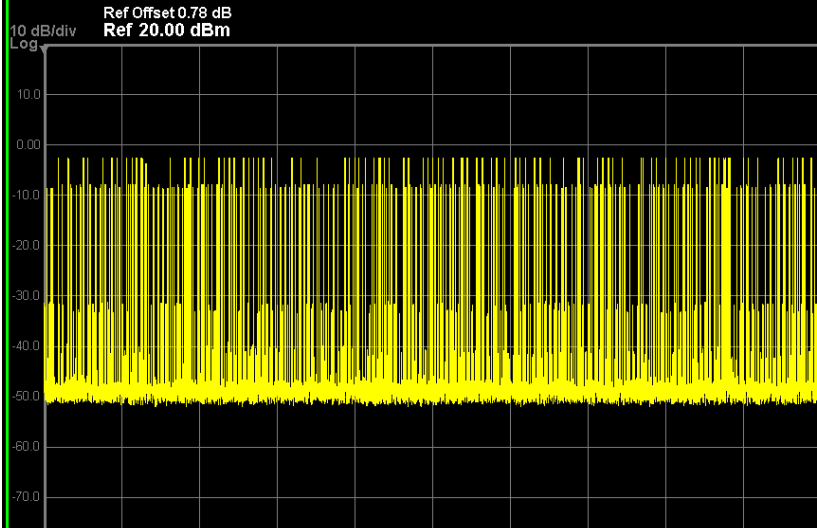
DET P N N N N N

Ref Offset 0.78 dB

Ref 20.00 dBm

10 dB/div

Log



Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Span 0 Hz

Sweep 31.60 s (10001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

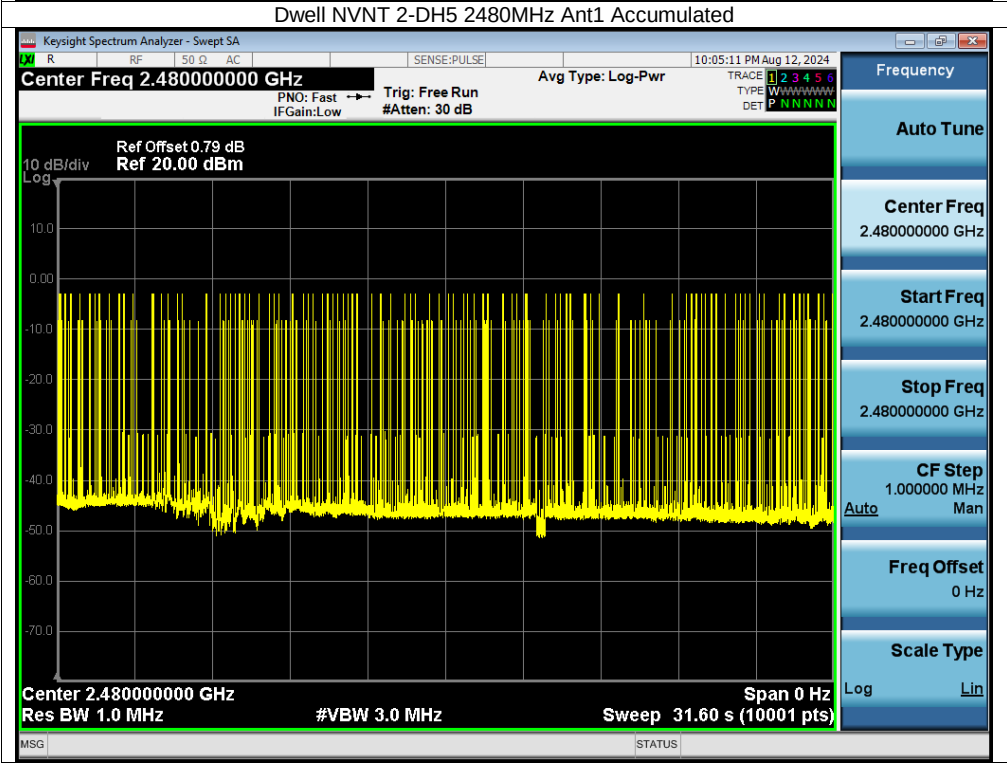
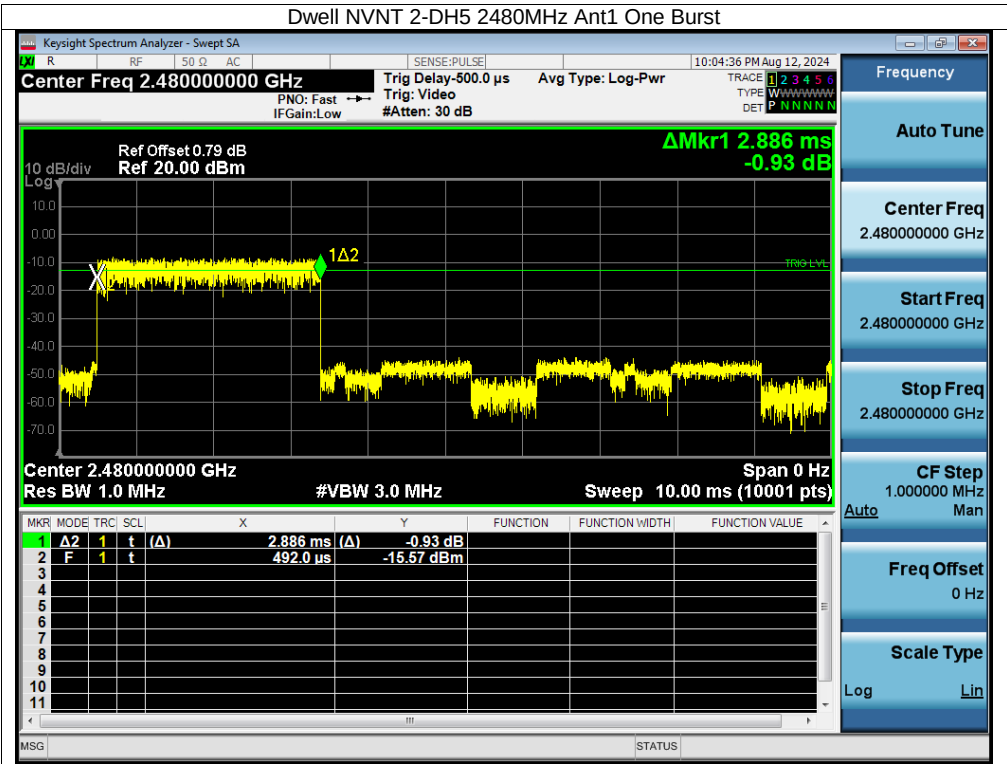
Stop Freq 2.441000000 GHz

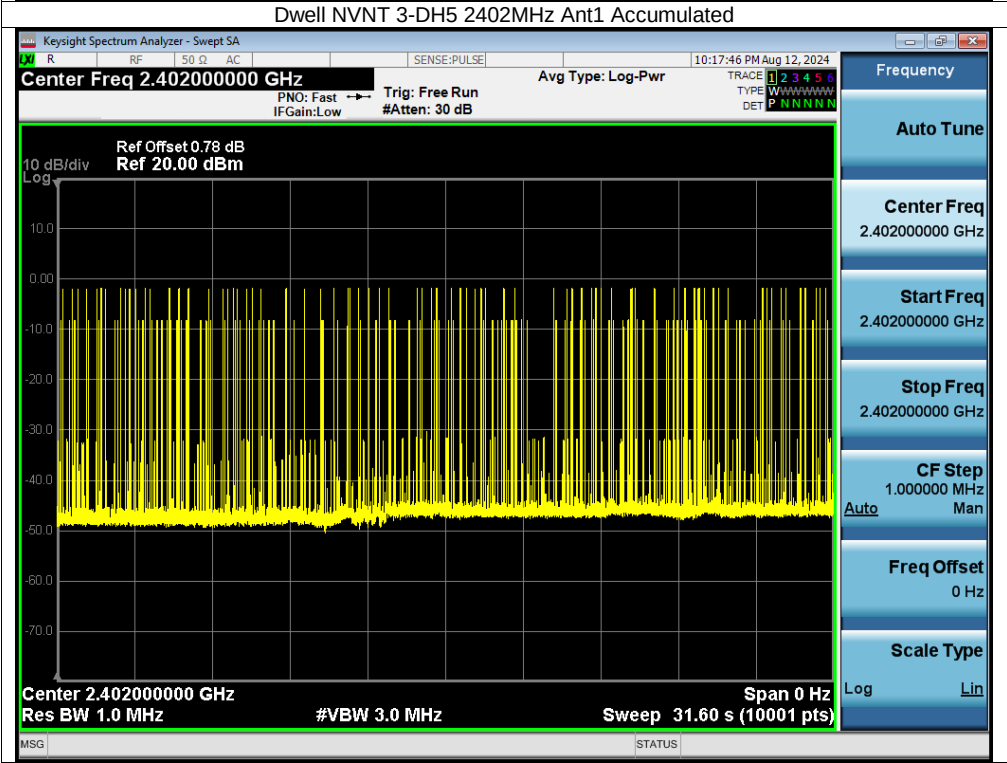
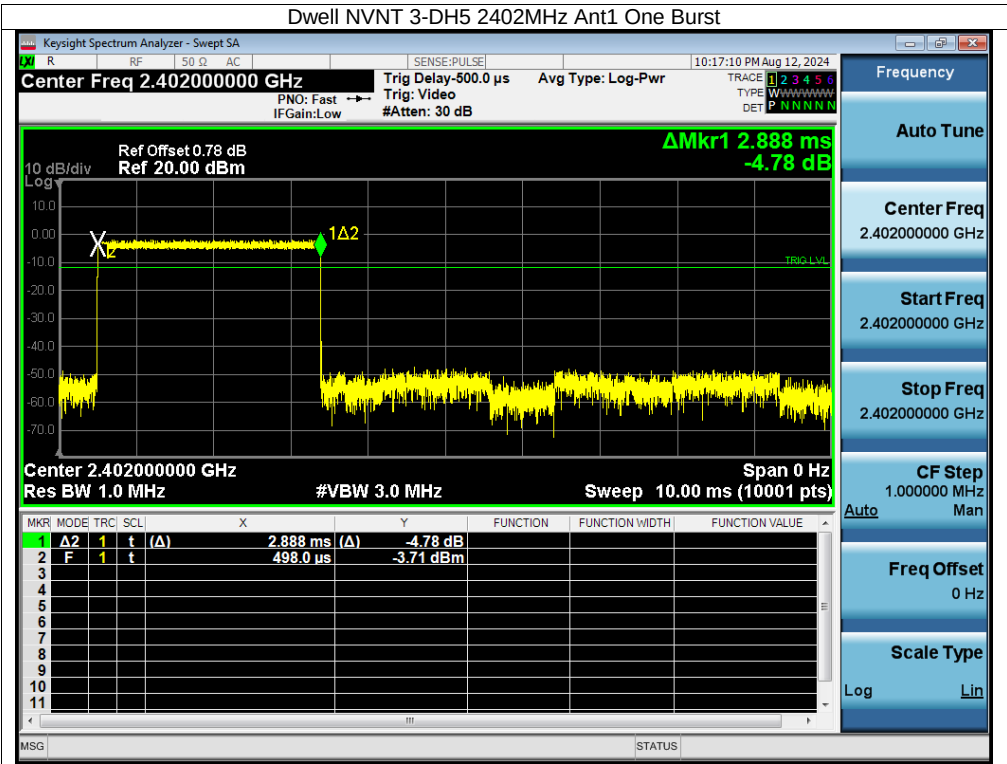
CF Step 1.000000 MHz

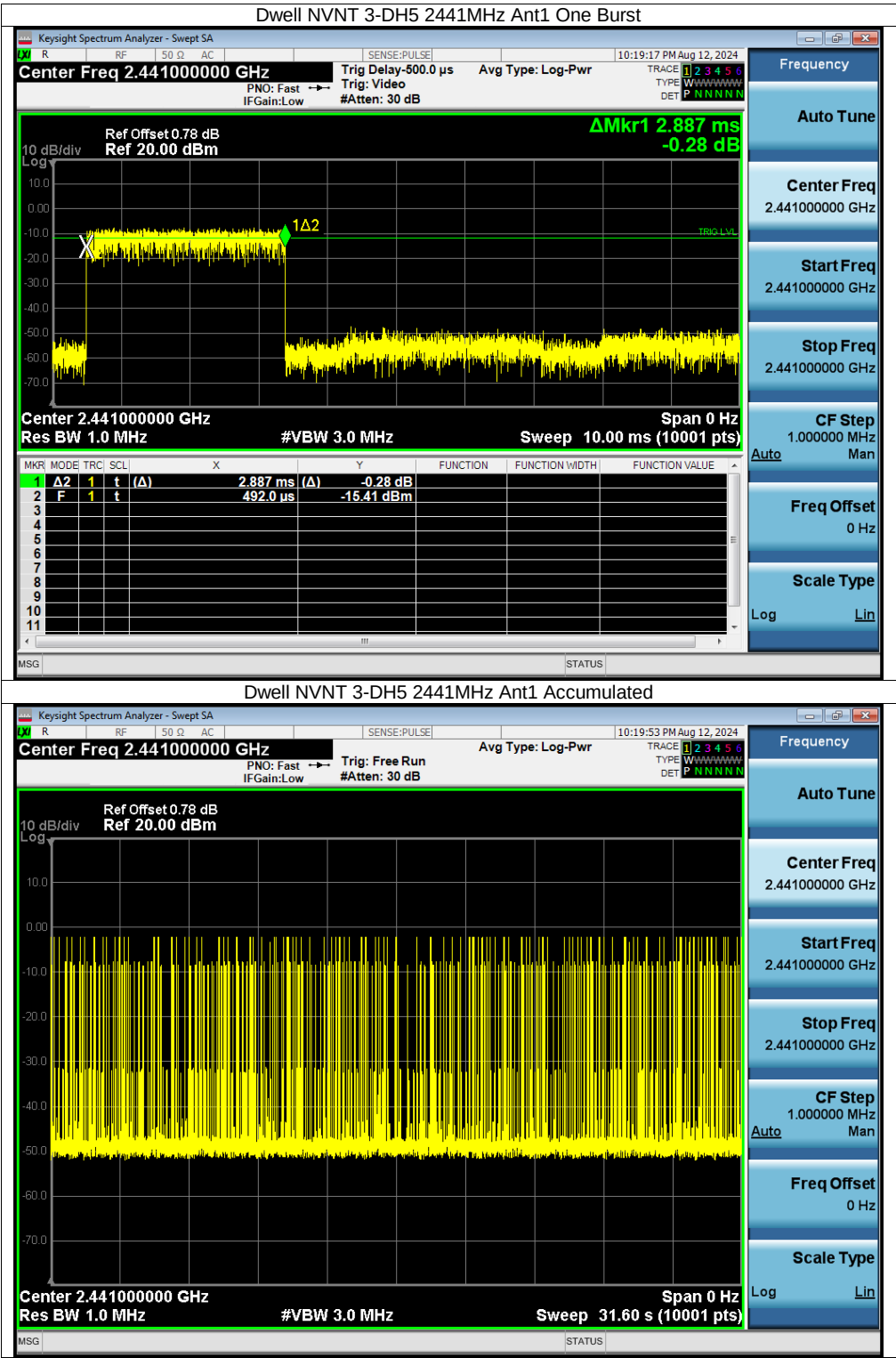
Auto Man

Freq Offset 0 Hz

Scale Type Log Lin







Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

Trig: Free Run

PNO: Fast

IFGain:Low

#Atten: 30 dB

10:19:53 PM Aug 12, 2024

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P N N N N N

Ref Offset 0.78 dB

Ref 20.00 dBm

10 dB/div

Log

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 31.60 s (10001 pts)

Span 0 Hz

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

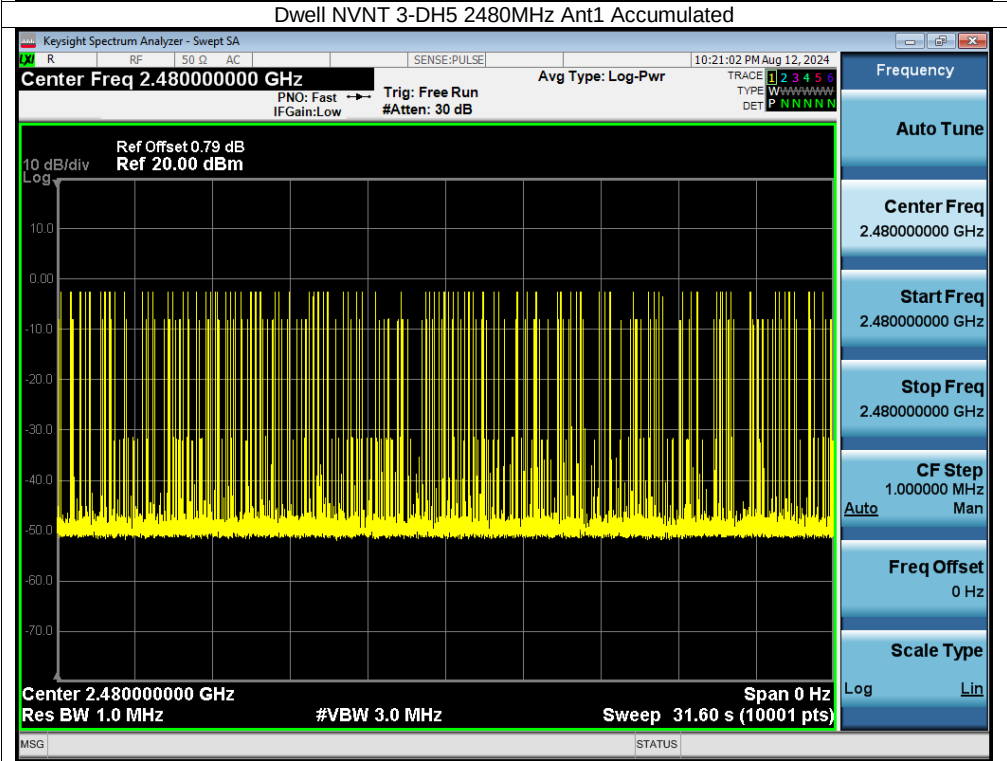
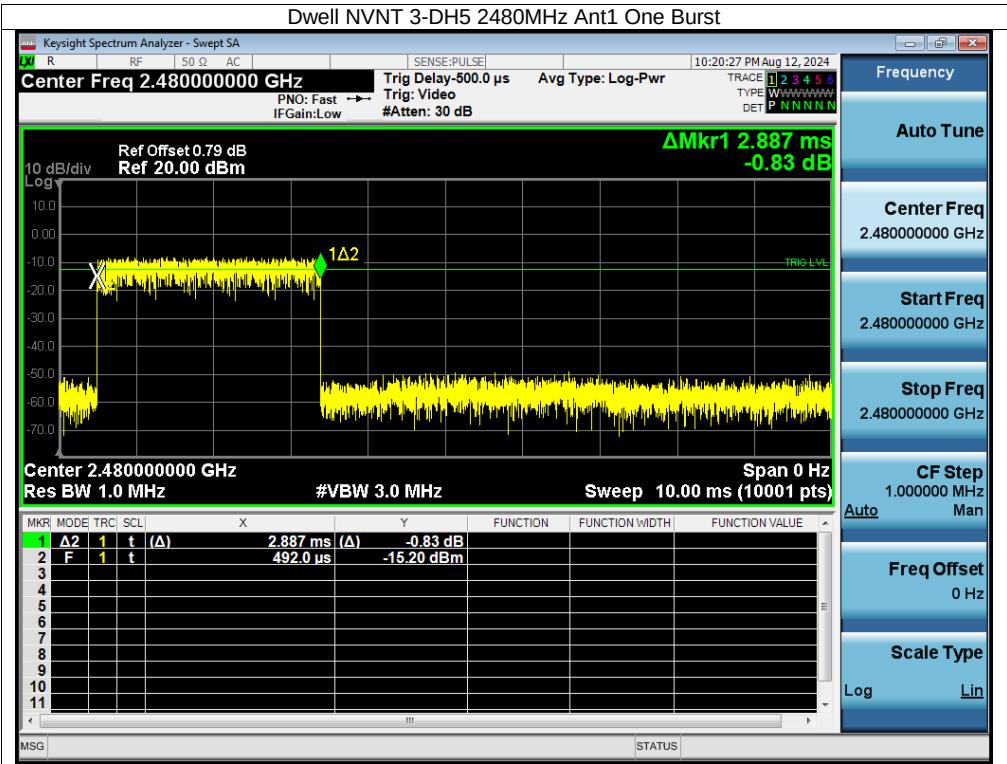
CF Step 1.000000 MHz

Auto Man

Freq Offset 0 Hz

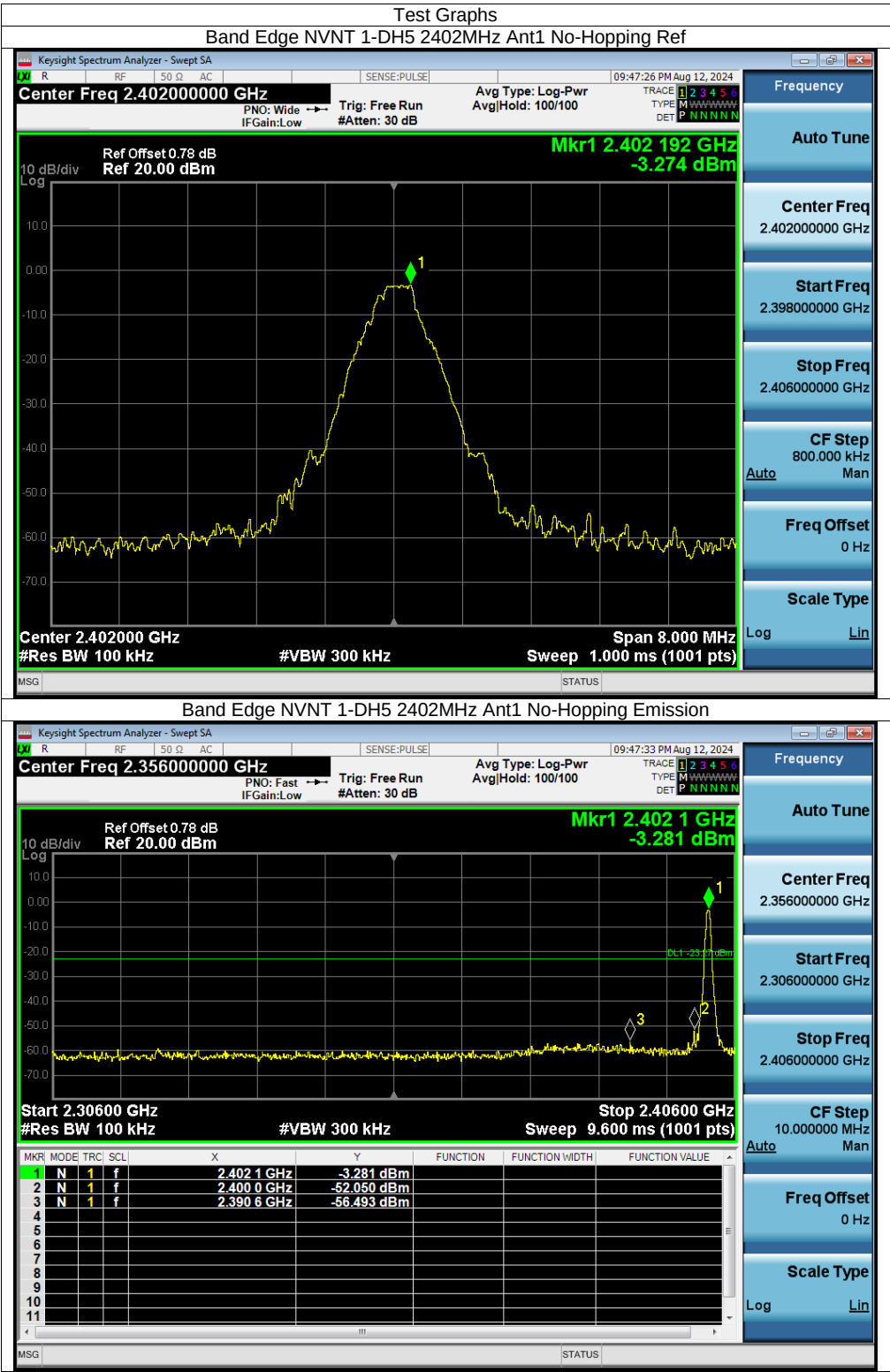
Scale Type

Log Lin



Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-48.78	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-52.85	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.15	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.12	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.31	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.32	-20	Pass



Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.356000000 GHz

PNO: Fast

Trig: Free Run

IFGain:Low

#Atten: 30 dB

Avg Type: Log-Pwr

AvgHold: 100/100

09:47:33 PM Aug 12, 2024

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W

DET P N N N N N

Ref Offset 0.78 dB

Ref 20.00 dBm

Mkr1 2.402 1 GHz

-3.281 dBm

10 dB/div

Log

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

Start 2.30600 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 2.40600 GHz

Sweep 9.600 ms (1001 pts)

MSG

STATUS

Frequency

Auto Tune

Center Freq

2.356000000 GHz

Start Freq

2.306000000 GHz

Stop Freq

2.406000000 GHz

CF Step

10.000000 MHz

Auto

Man

Freq Offset

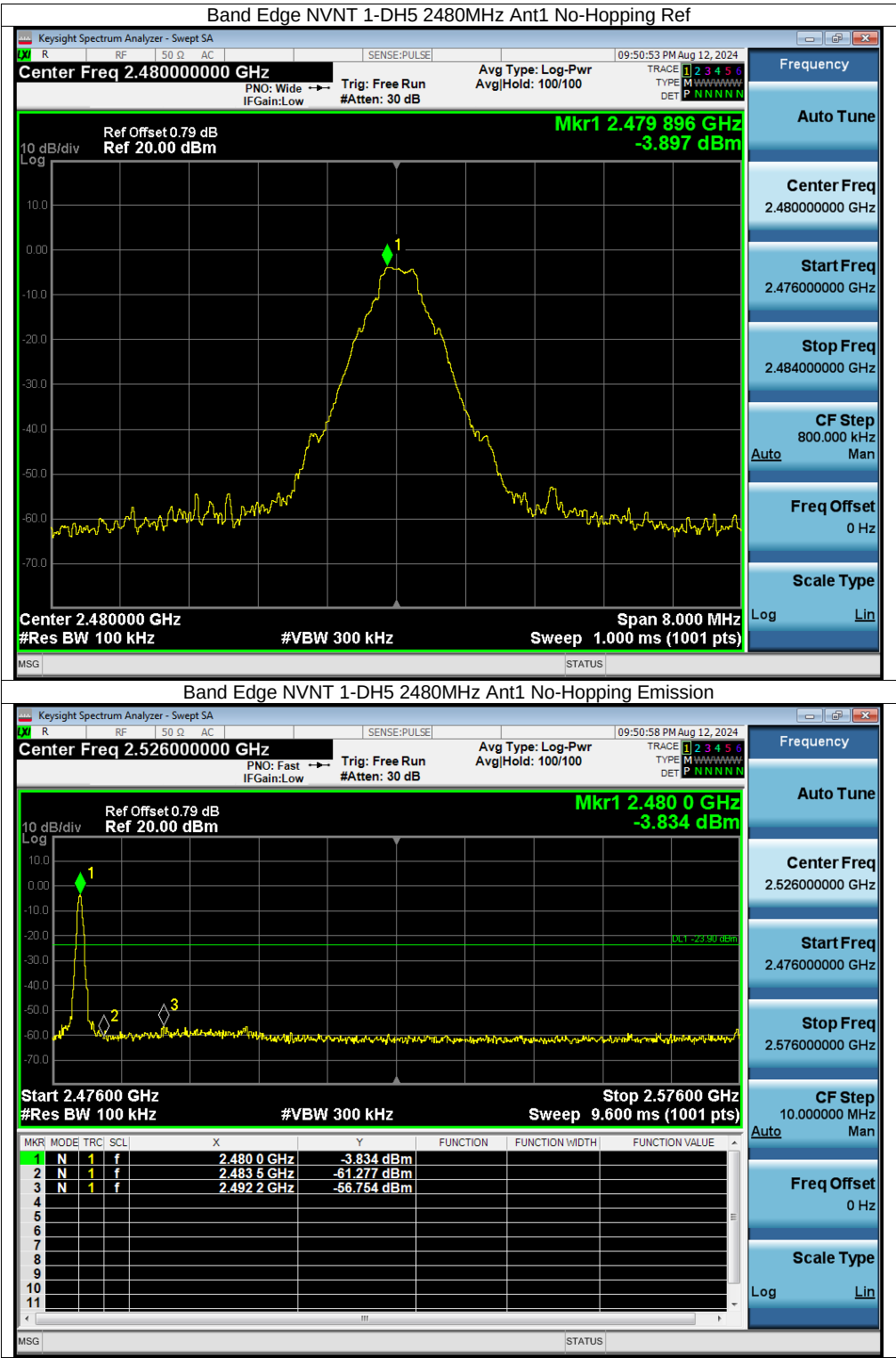
0 Hz

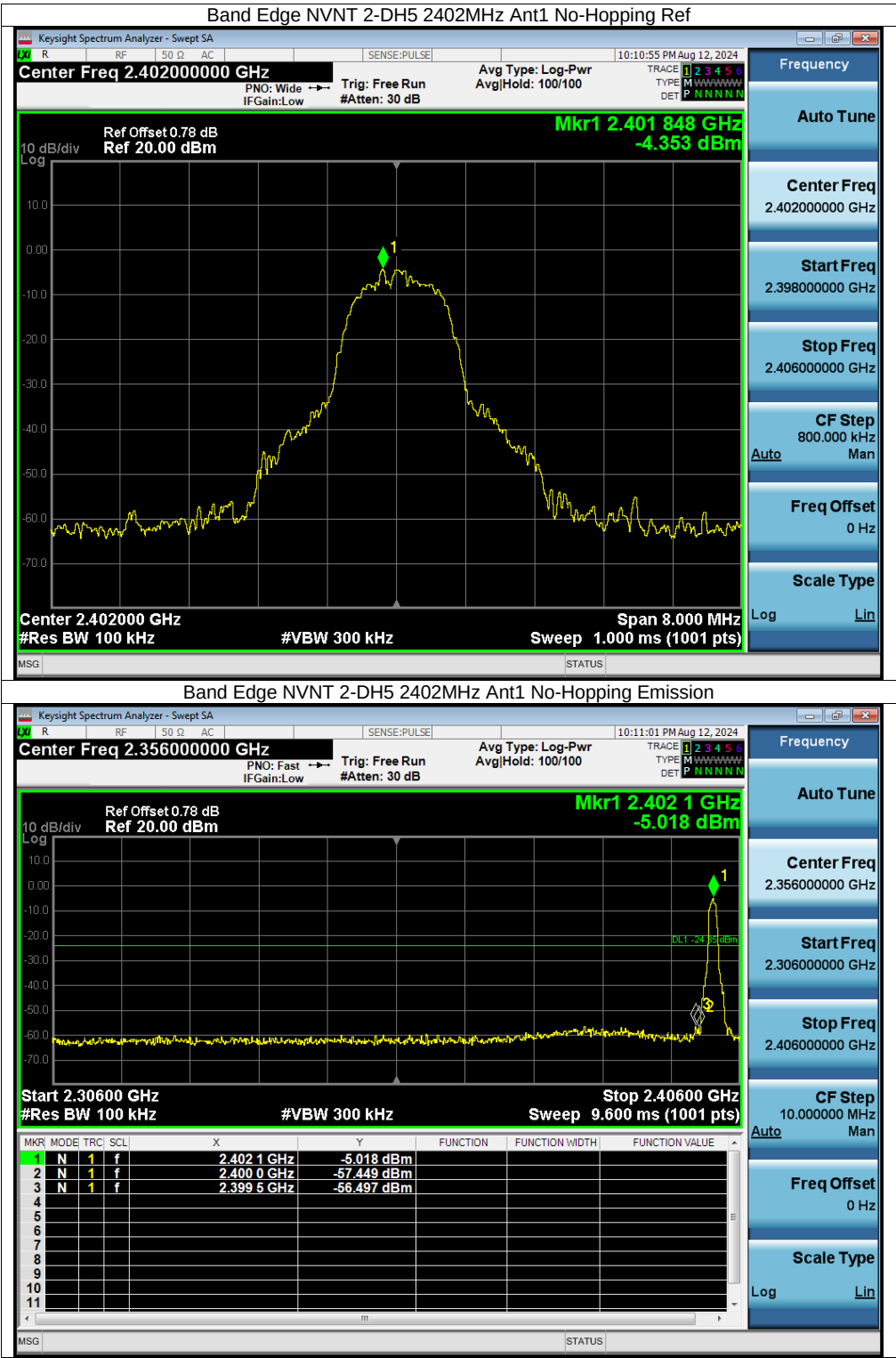
Scale Type

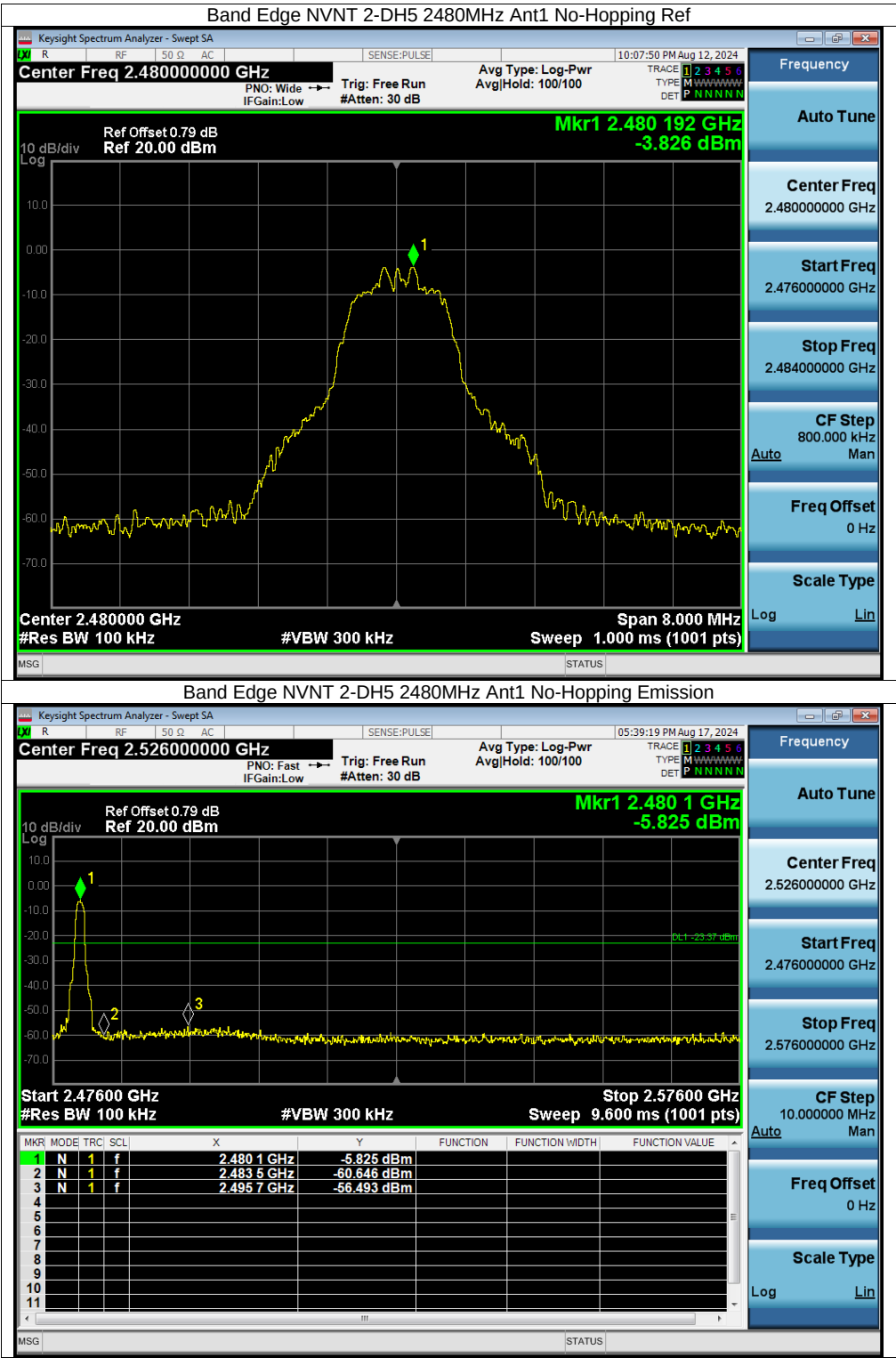
Log

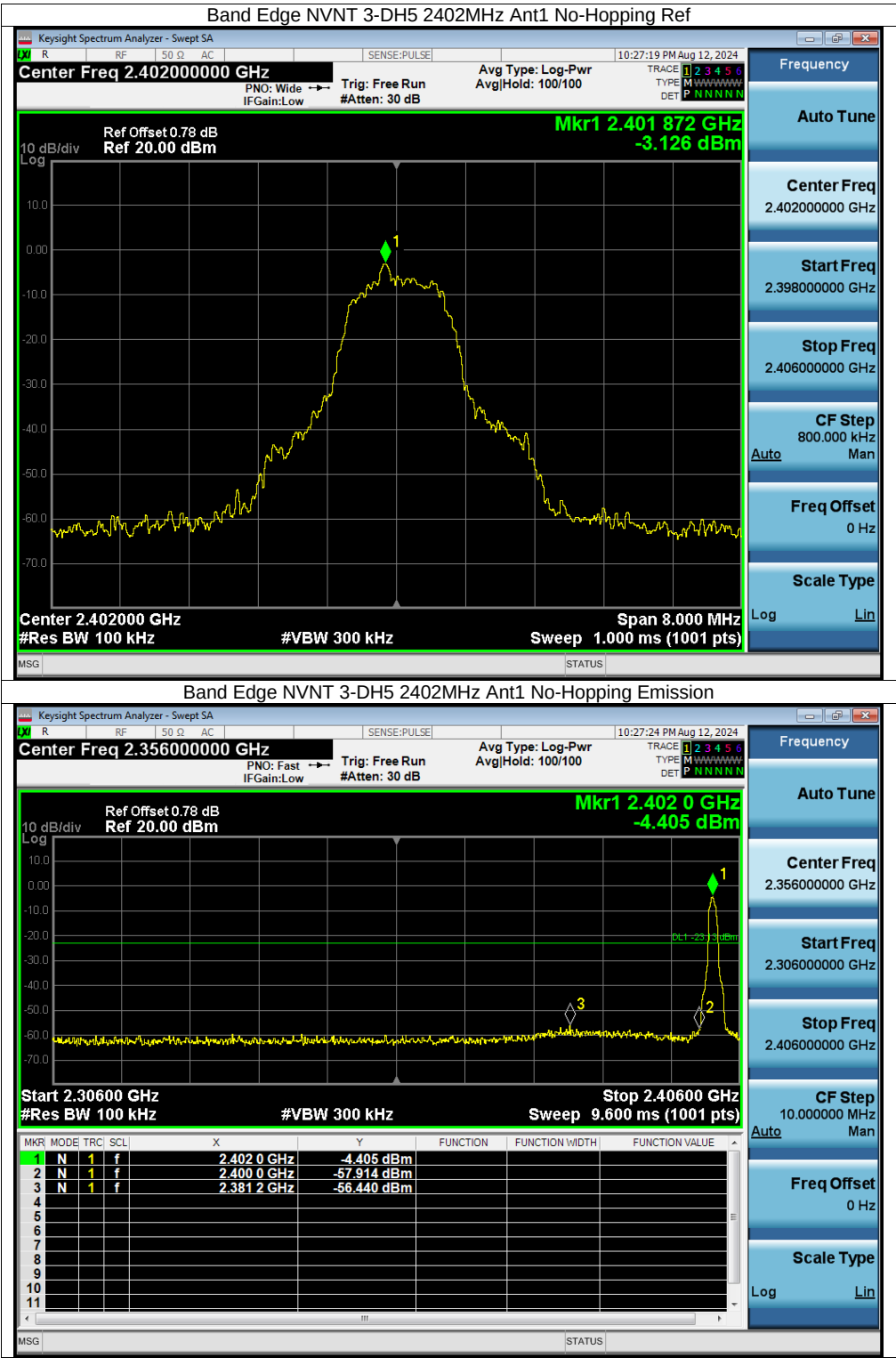
Lin

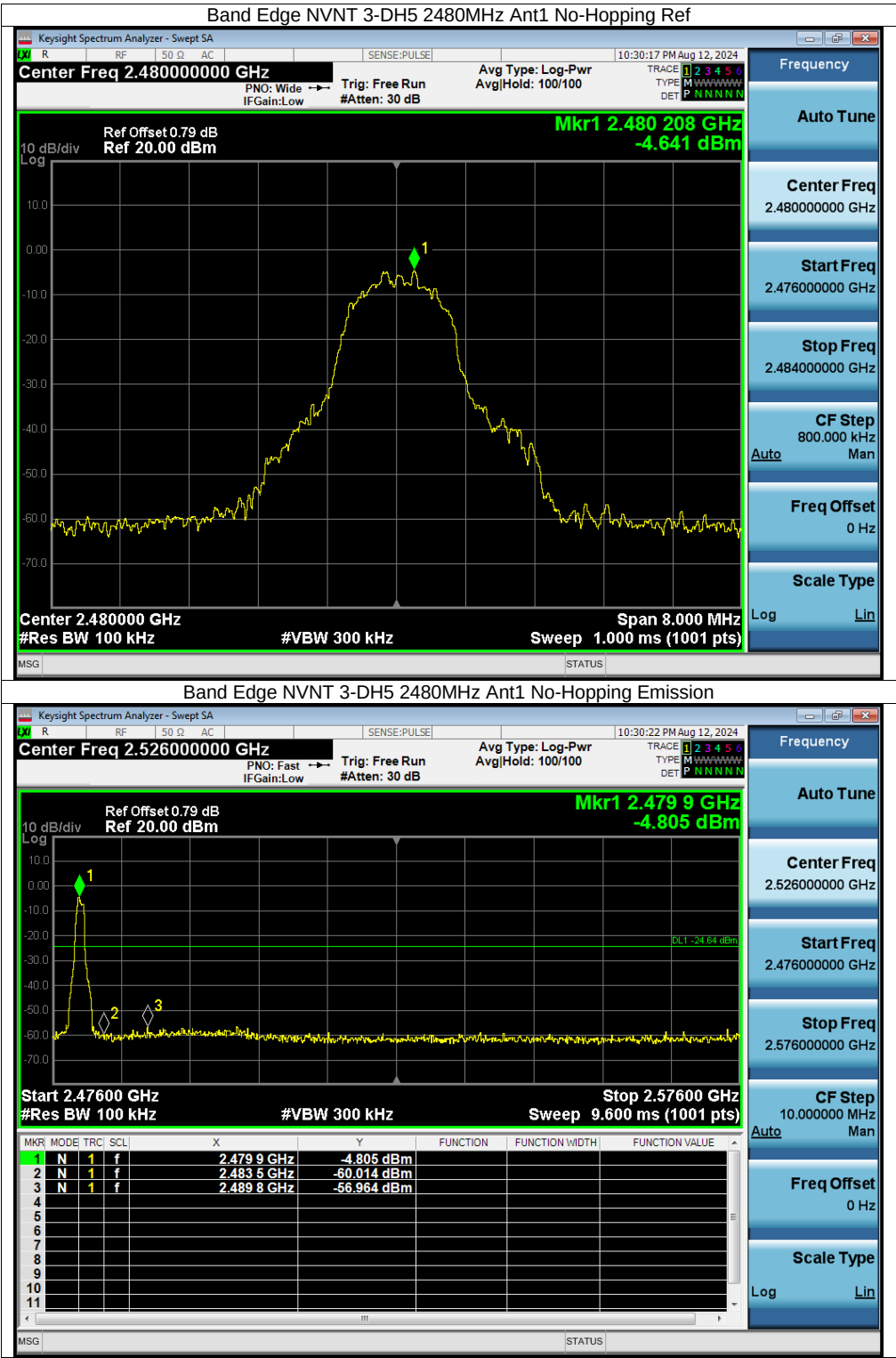
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.402 1 GHz	-3.281 dBm			
2	N	1	f	2.400 0 GHz	-52.050 dBm			
3	N	1	f	2.390 6 GHz	-56.493 dBm			
4								
5								
6								
7								
8								
9								
10								
11								





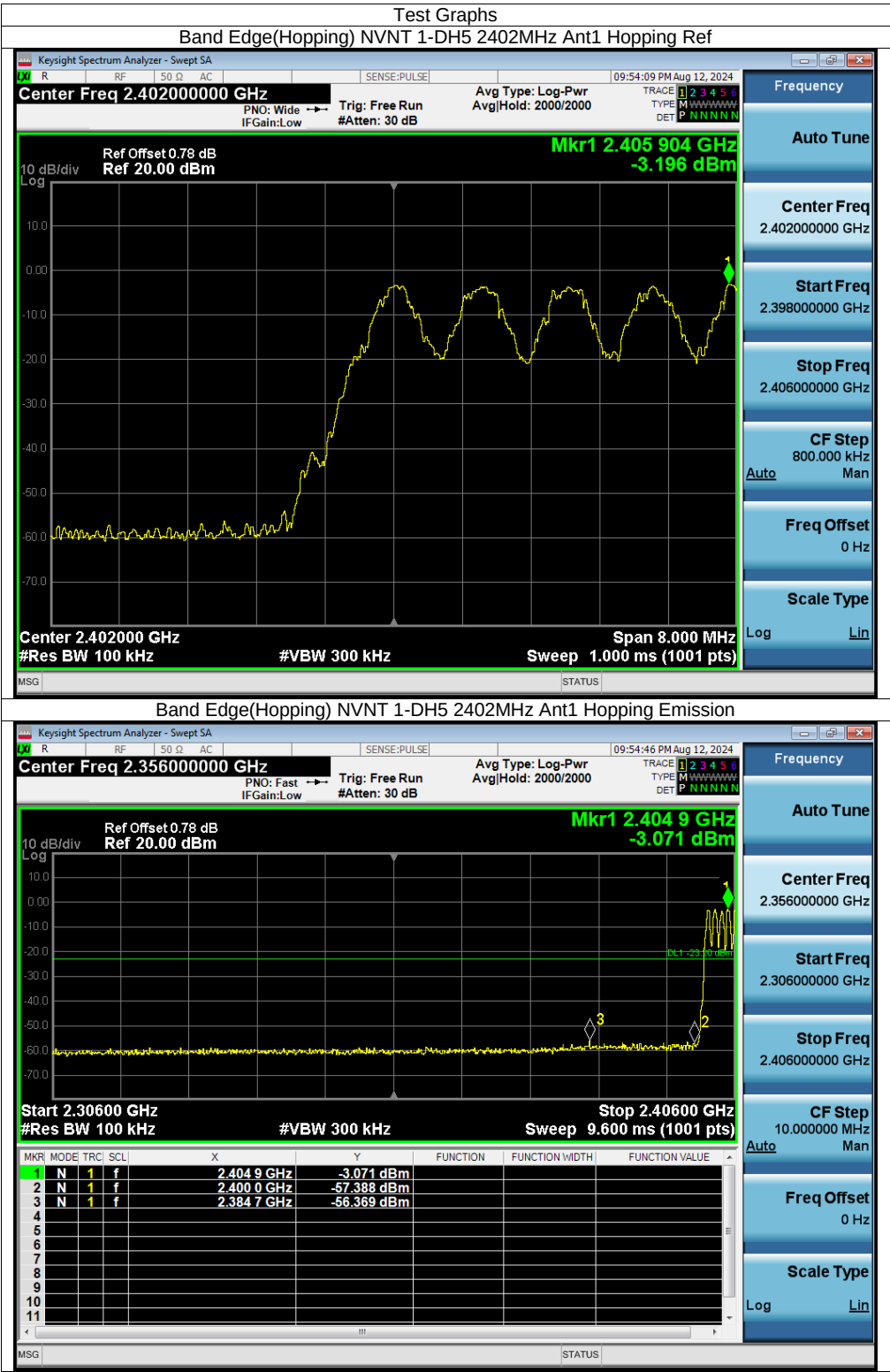


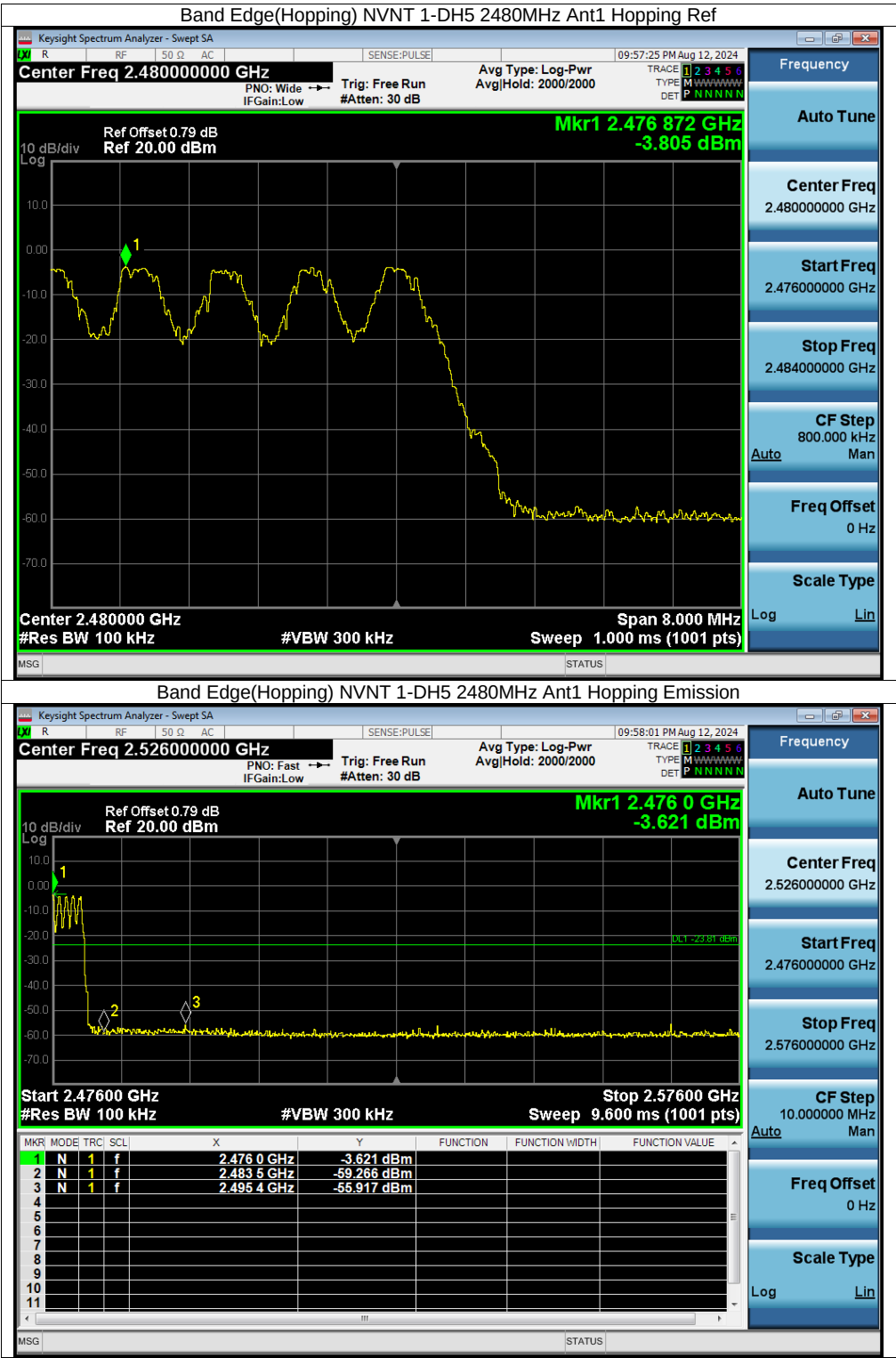


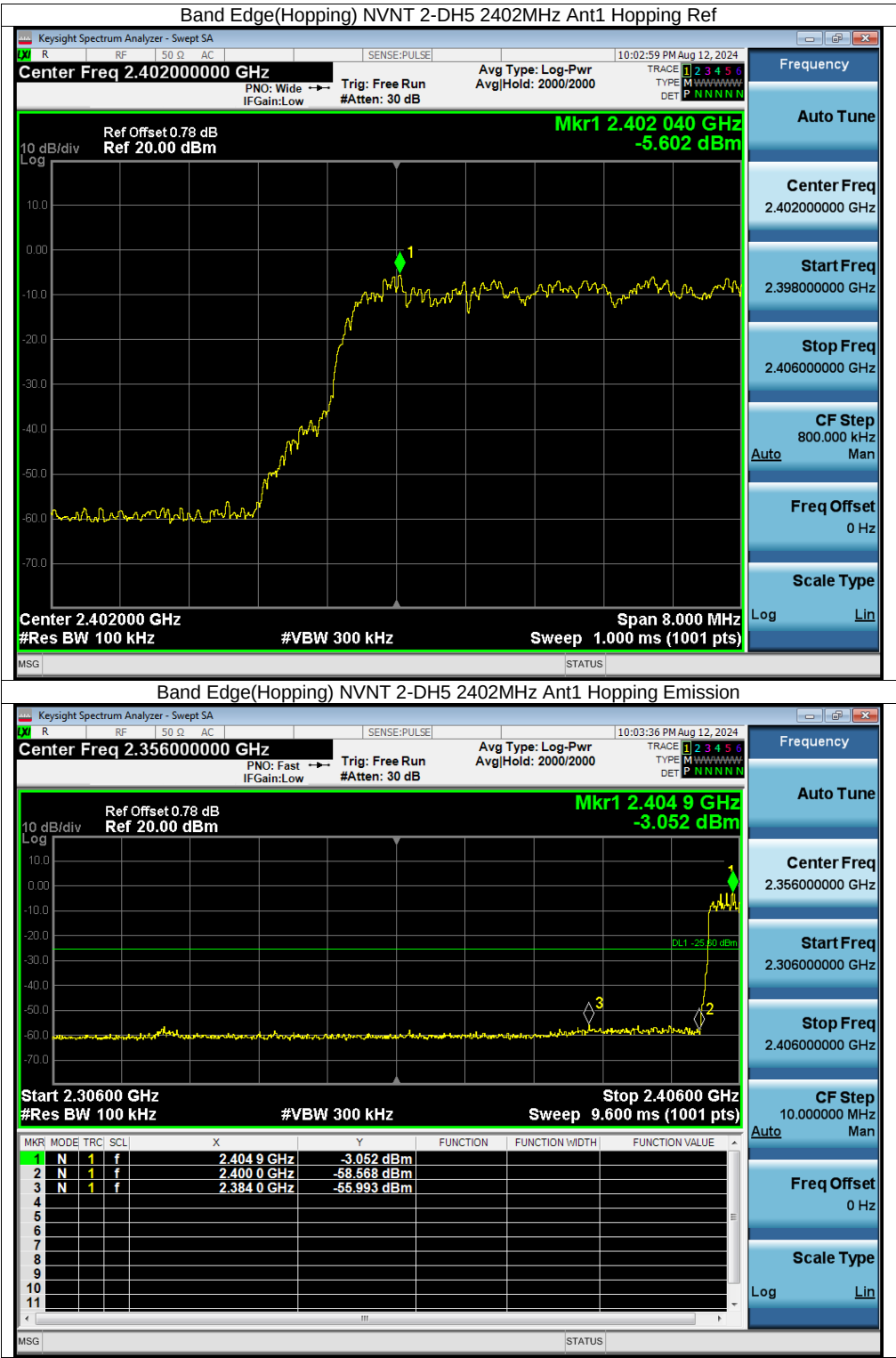


Band Edge(Hopping)

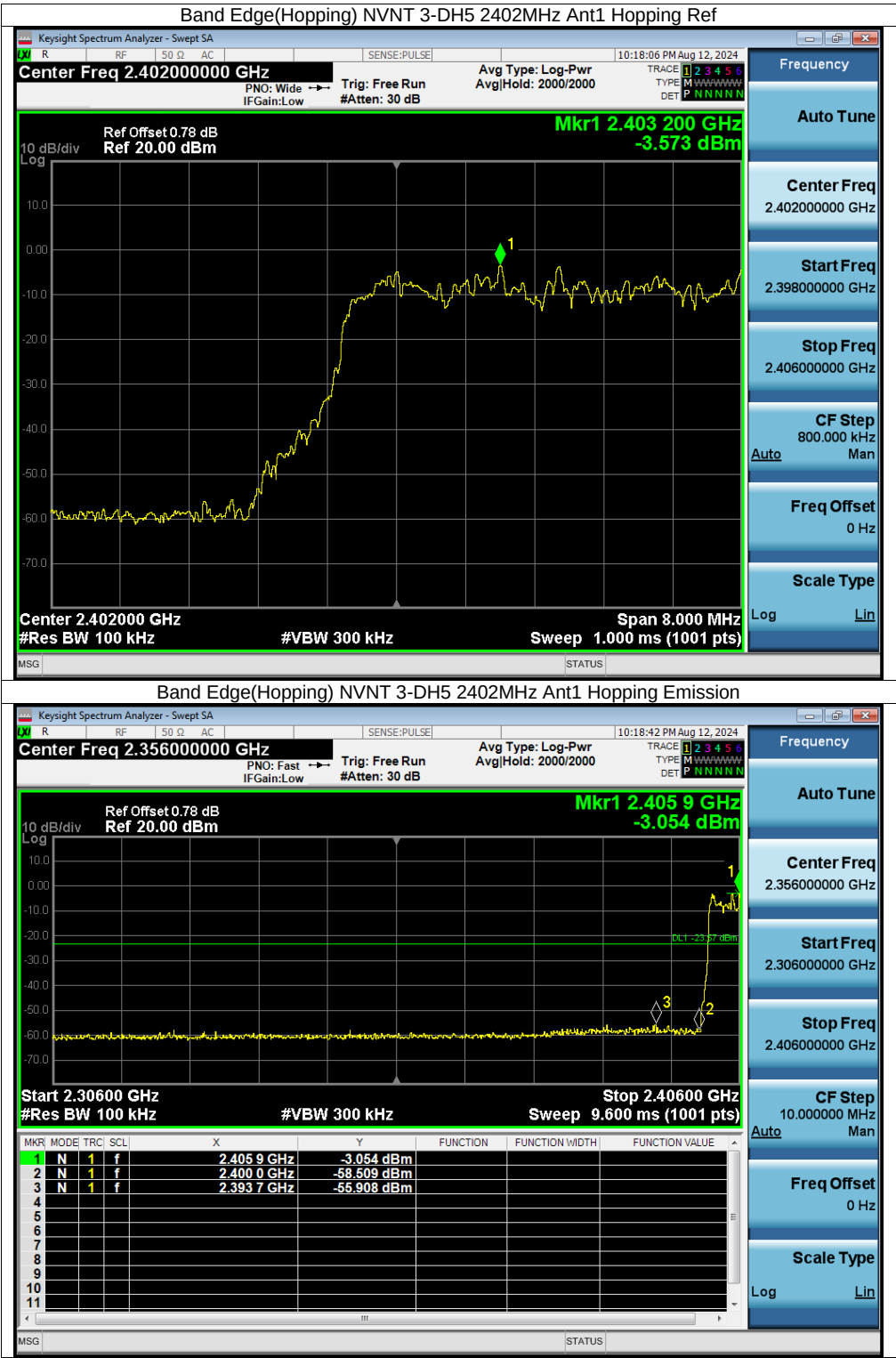
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.17	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.12	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.39	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.36	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.34	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.82	-20	Pass







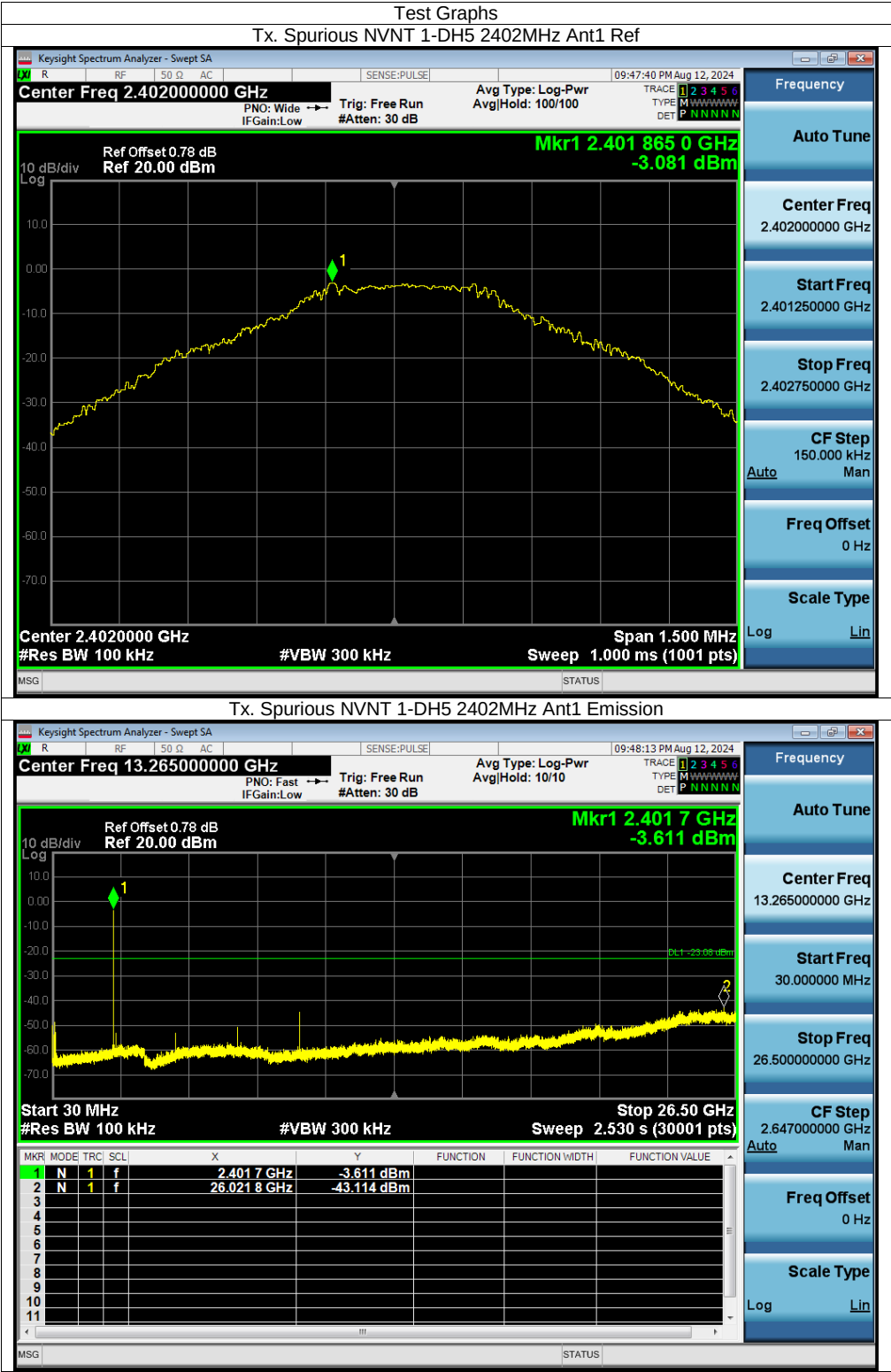


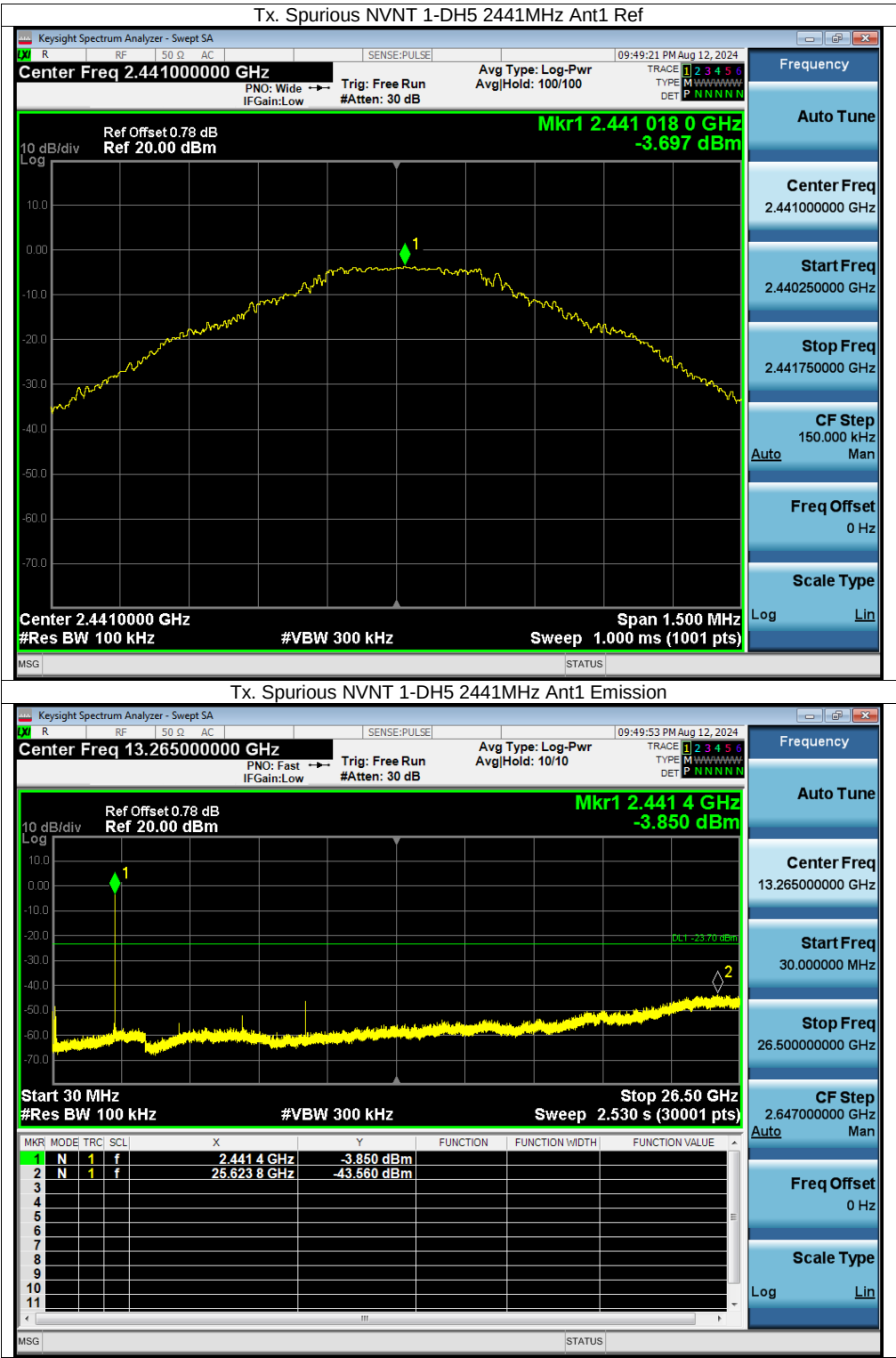


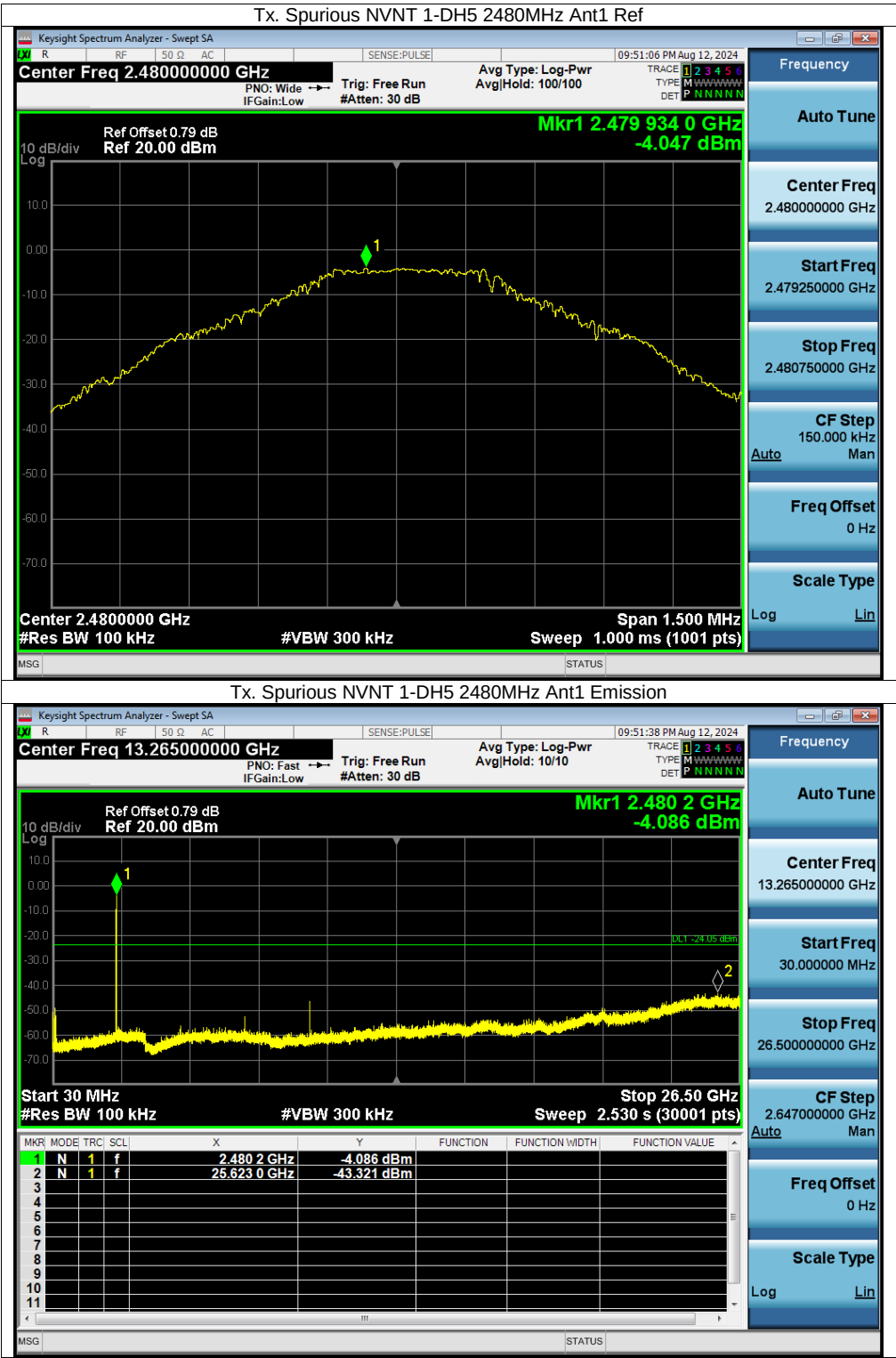


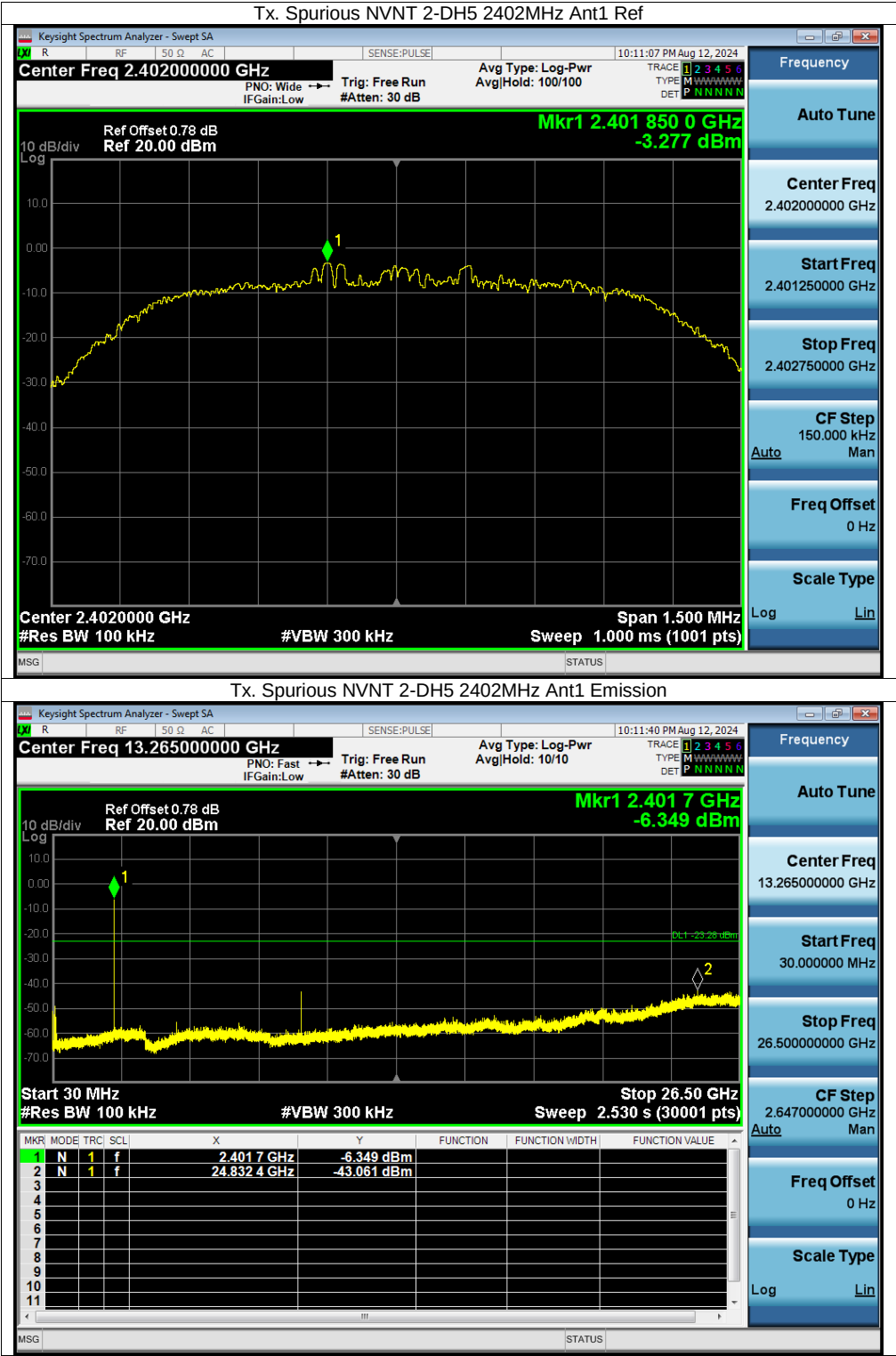
Conducted RF Spurious Emission

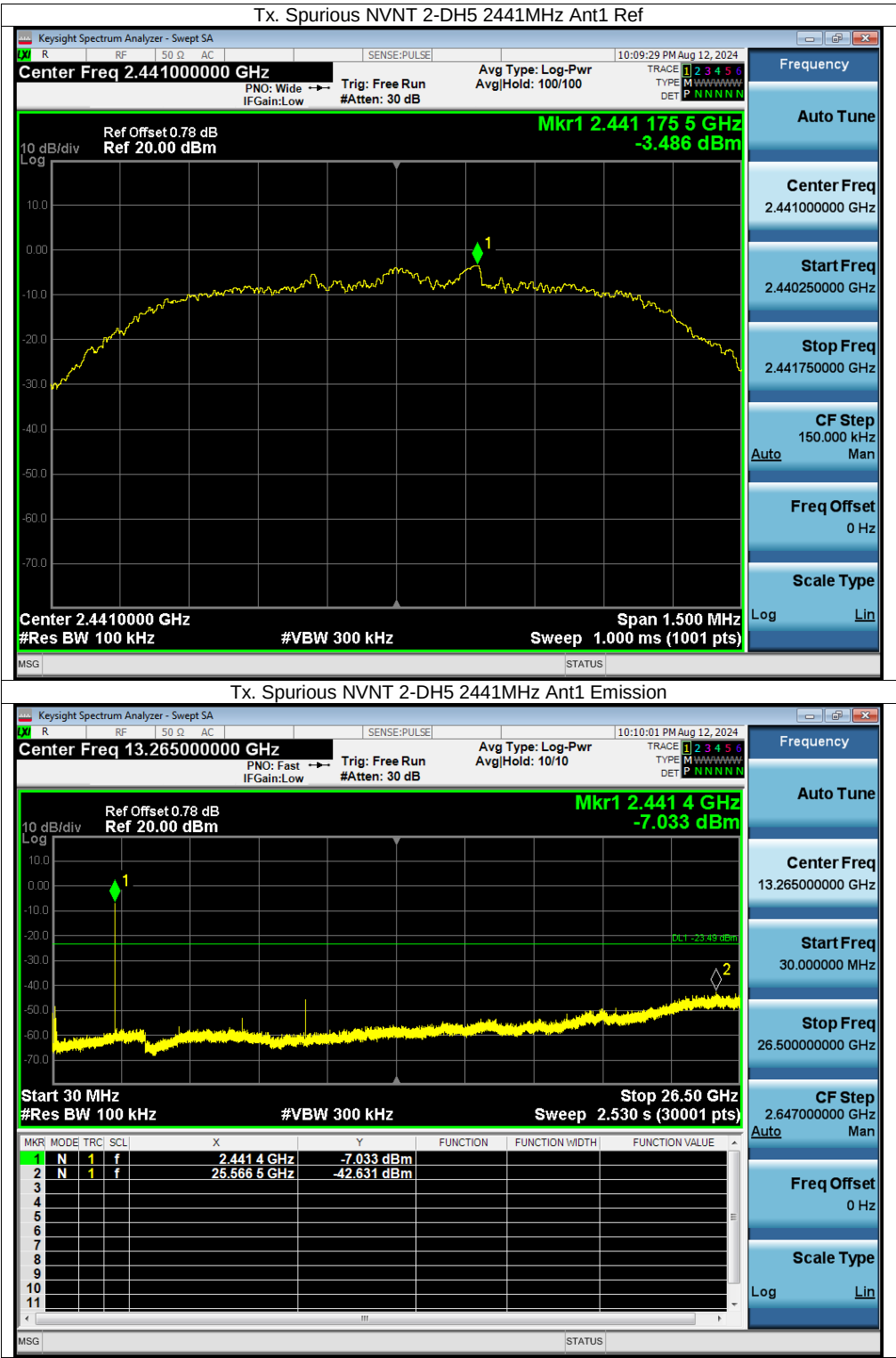
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.03	-20	Pass
NVNT	1-DH5	2441	Ant1	-39.86	-20	Pass
NVNT	1-DH5	2480	Ant1	-39.27	-20	Pass
NVNT	2-DH5	2402	Ant1	-39.78	-20	Pass
NVNT	2-DH5	2441	Ant1	-39.14	-20	Pass
NVNT	2-DH5	2480	Ant1	-39.7	-20	Pass
NVNT	3-DH5	2402	Ant1	-39.04	-20	Pass
NVNT	3-DH5	2441	Ant1	-38.91	-20	Pass
NVNT	3-DH5	2480	Ant1	-39.84	-20	Pass

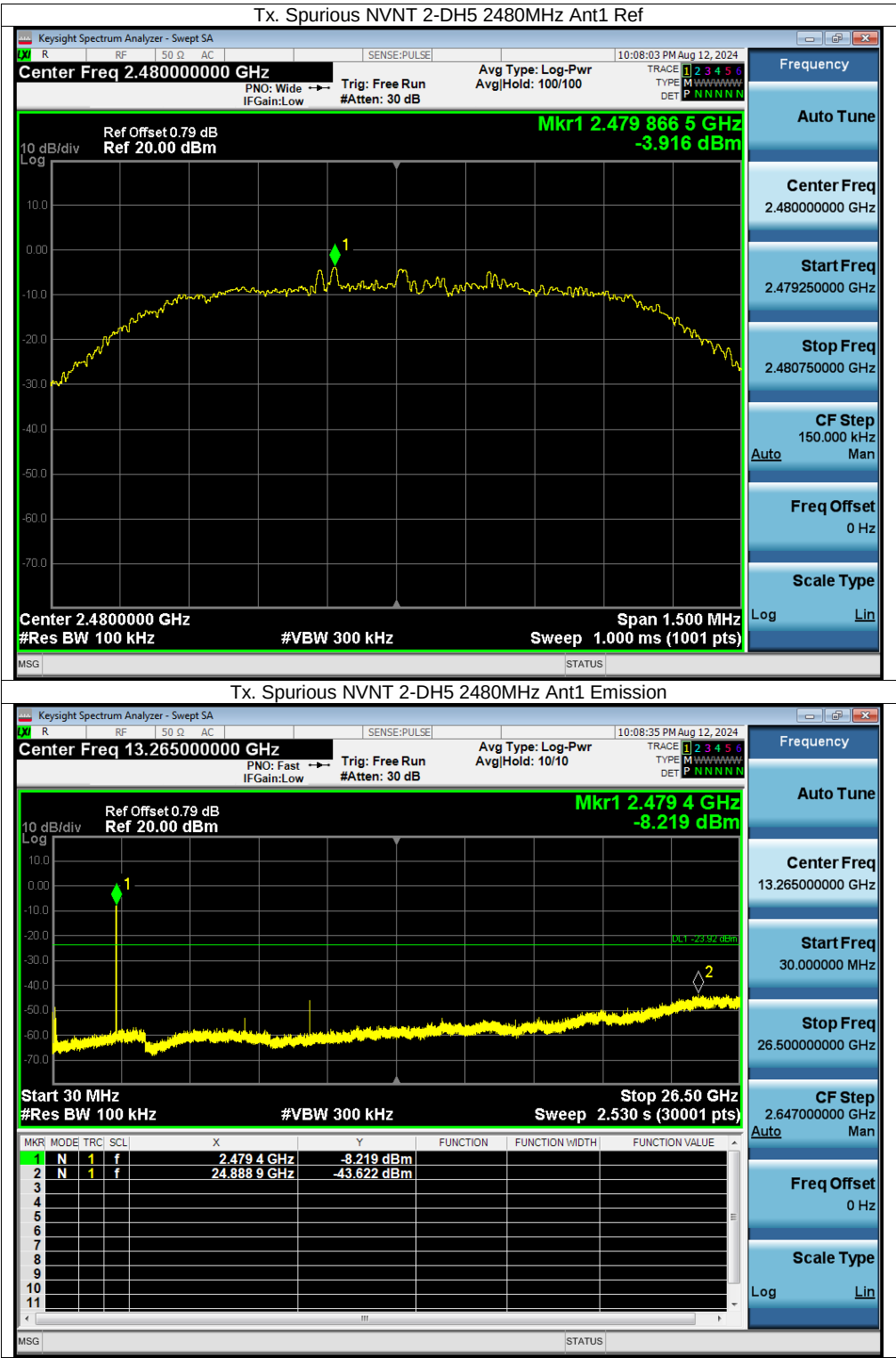


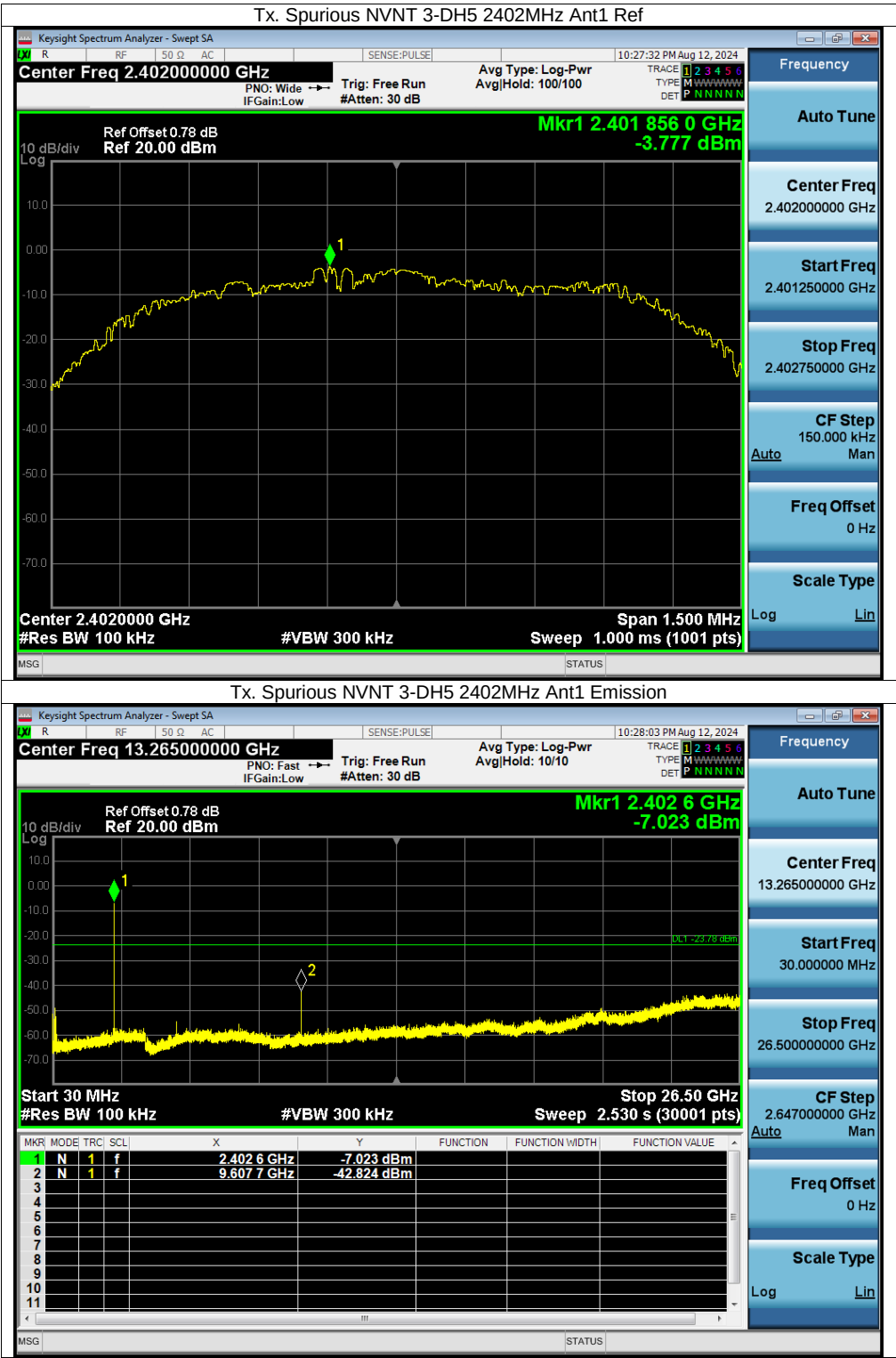


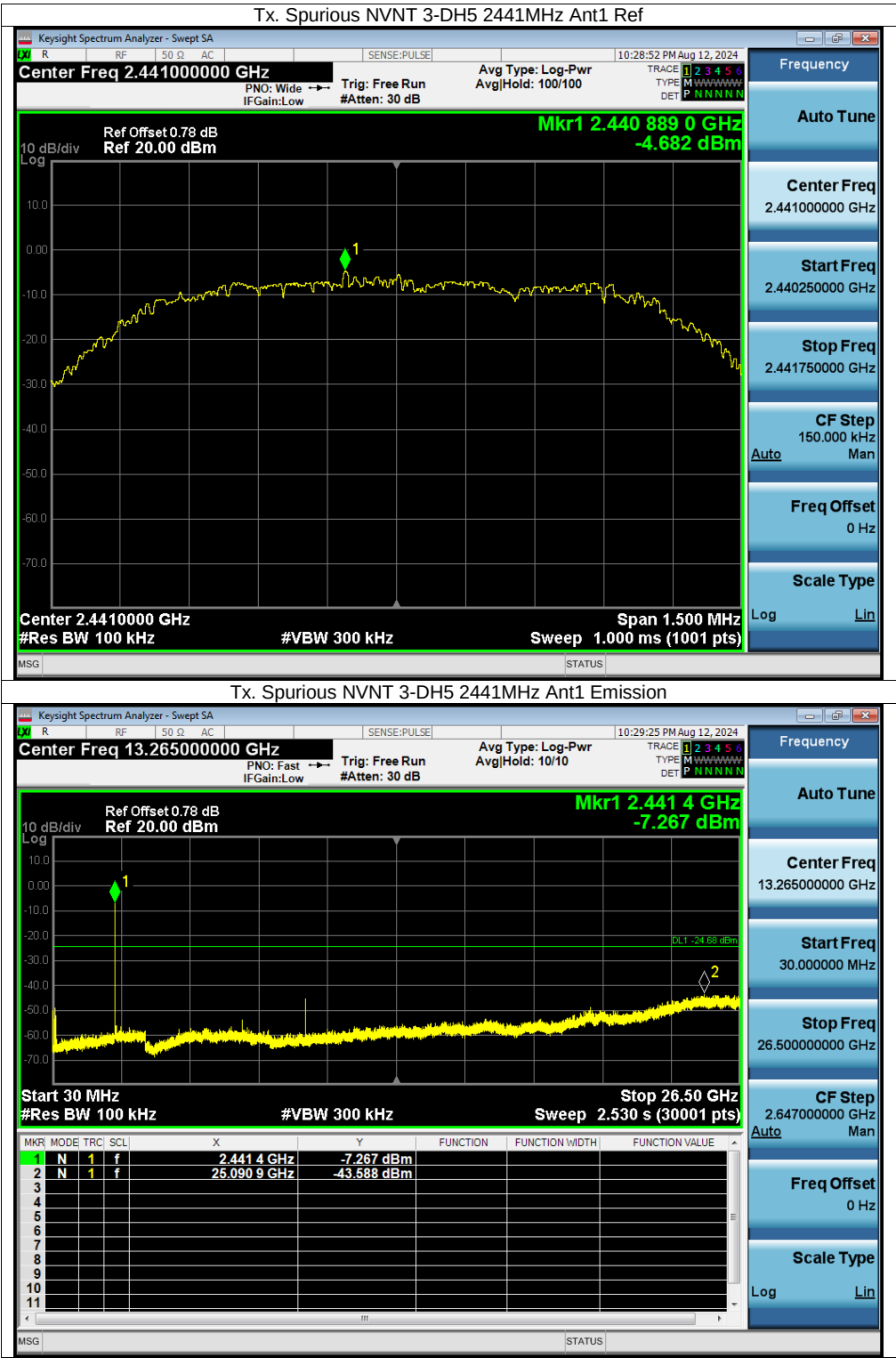


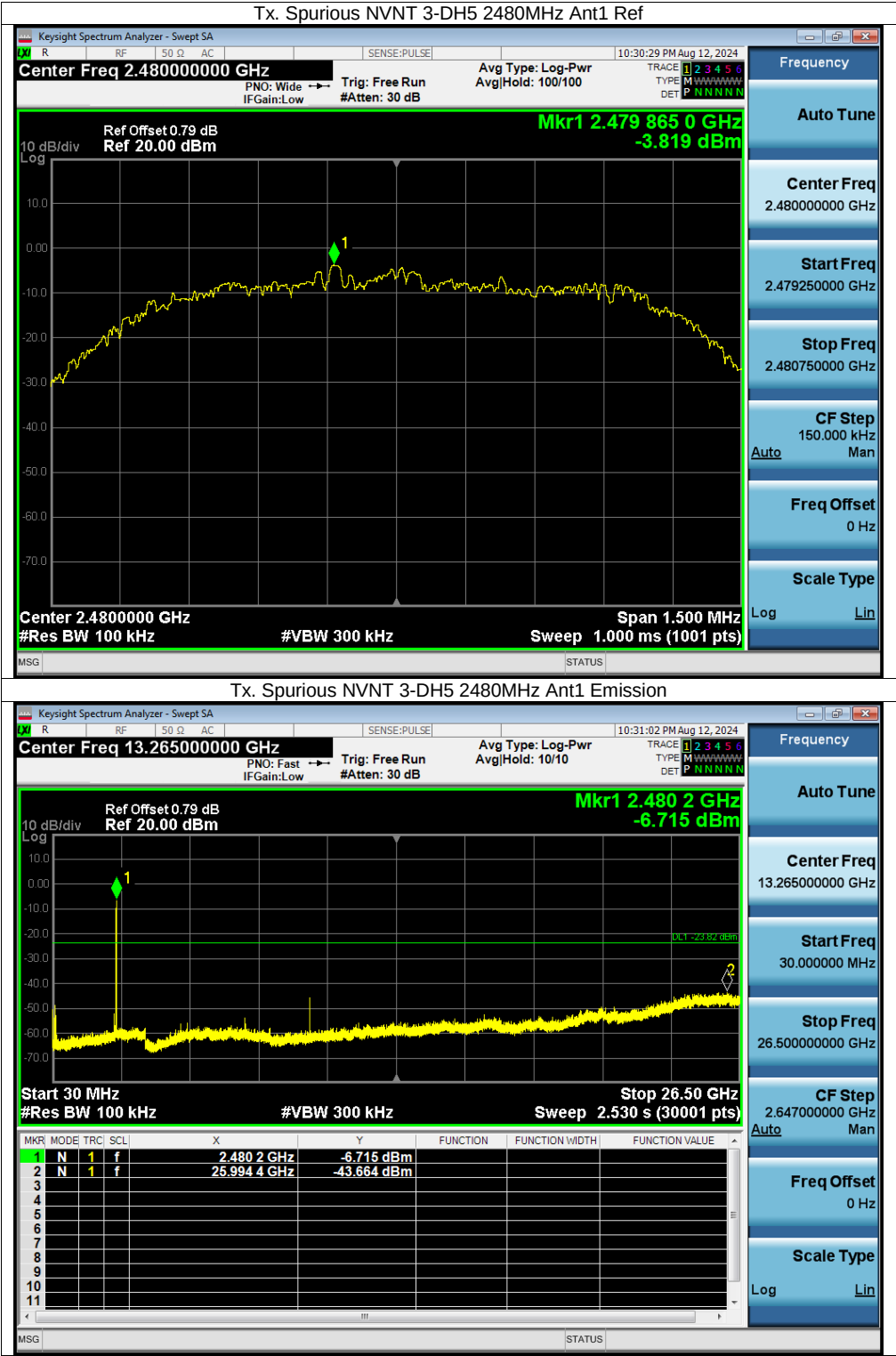










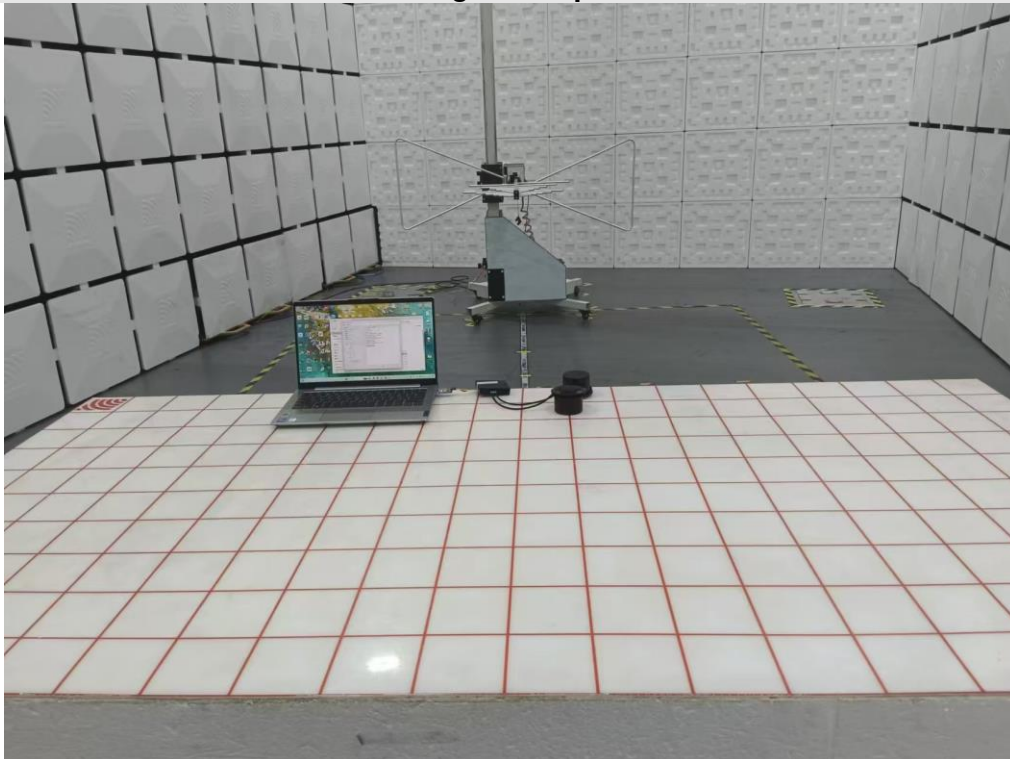


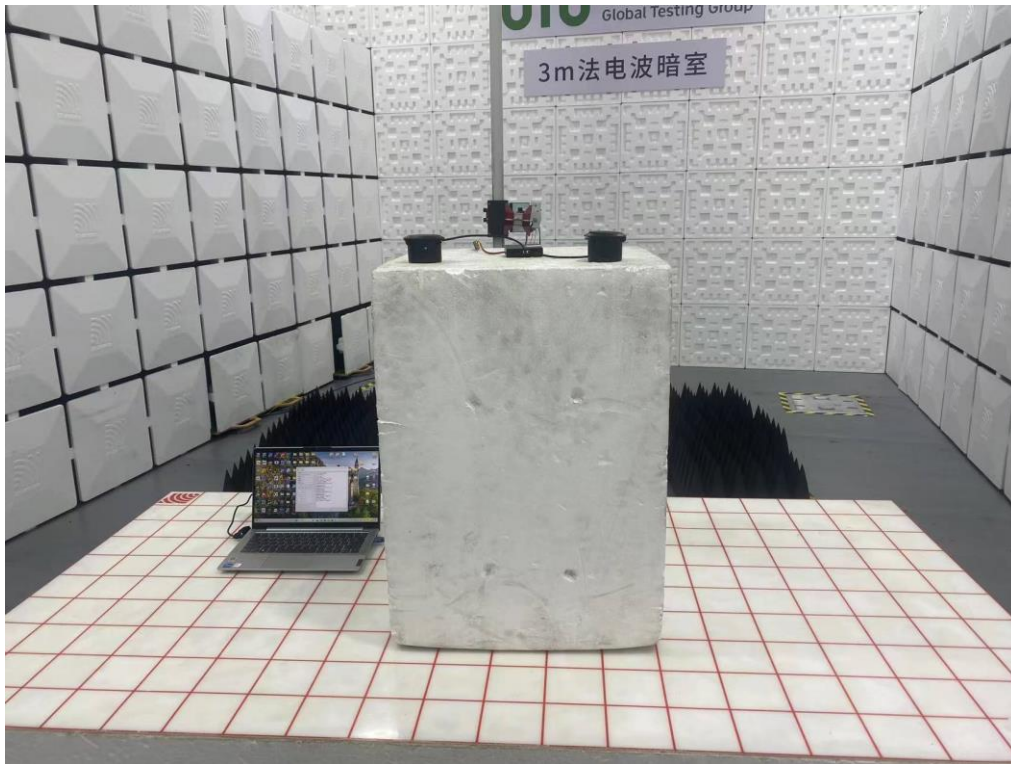
APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

AC Power Line Conducted Emission



Radiated Band edge and Spurious Emission





END OF REPORT