

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Portable Wireless Speaker

MODEL NUMBER: BTS13

Trademark: Tribit

REPORT NUMBER: E01A23070804F00102

ISSUE DATE: August 18, 2023

FCC ID:2ALNA-BTS13

Prepared for

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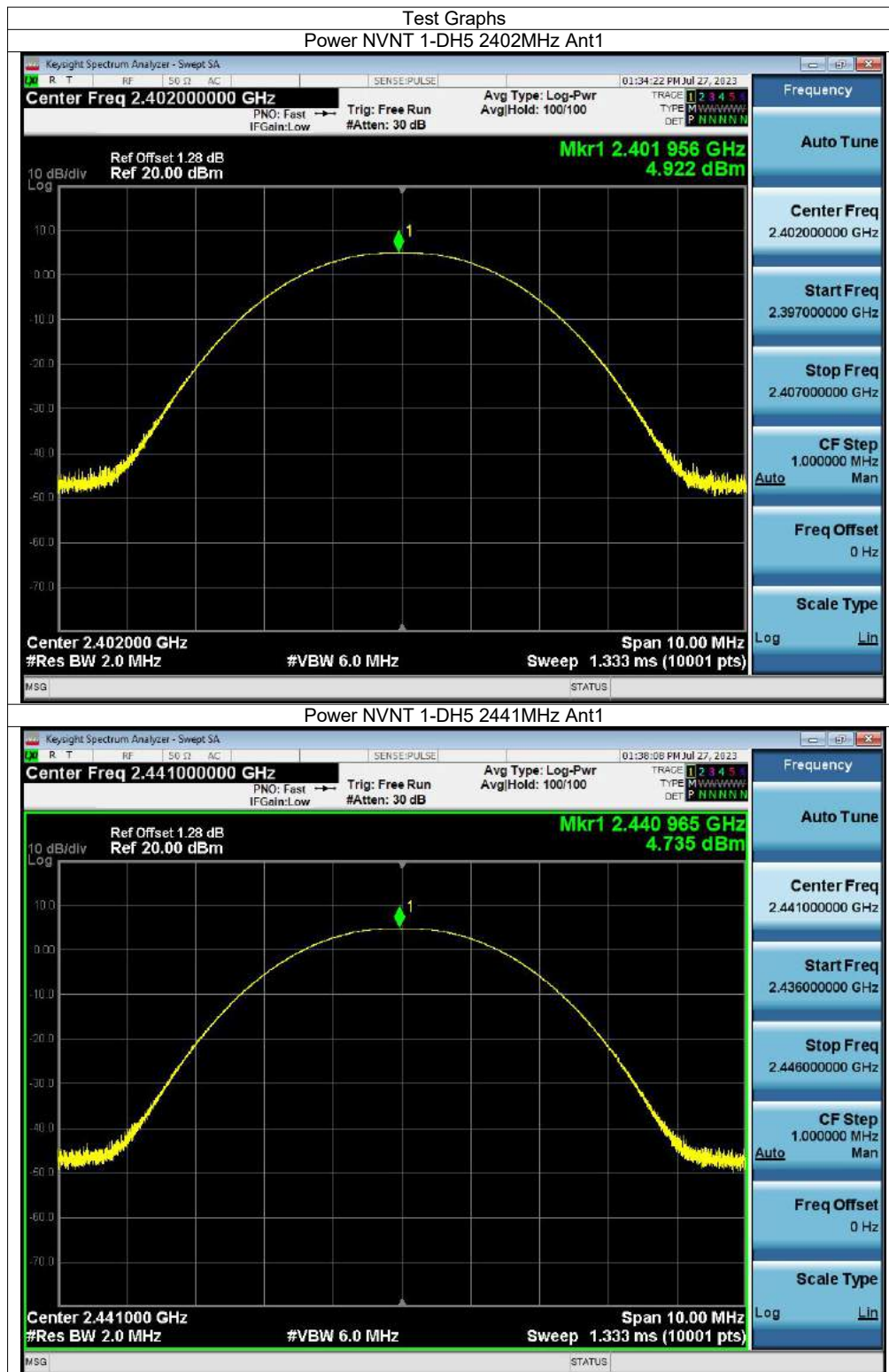
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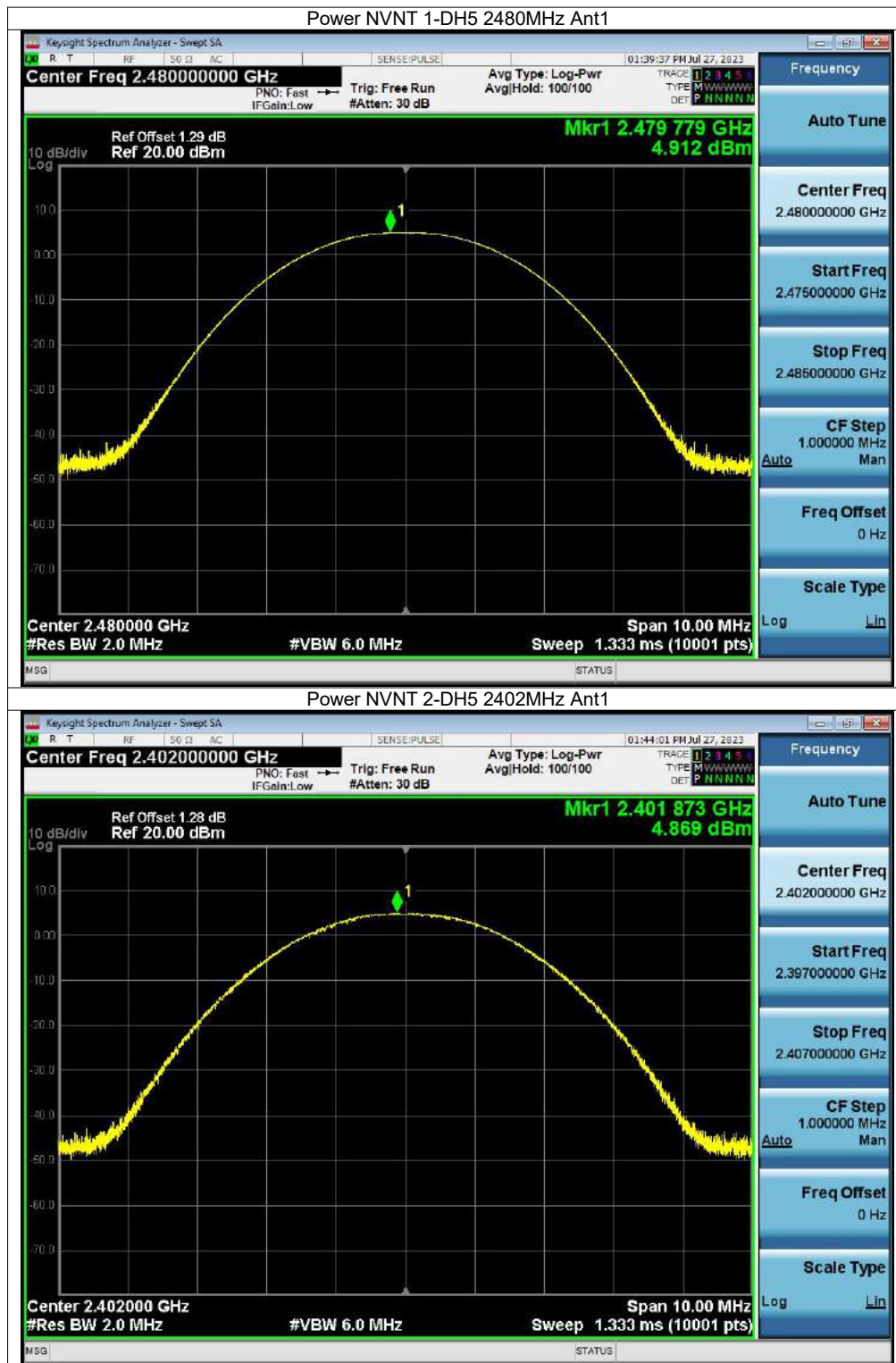
Revision History

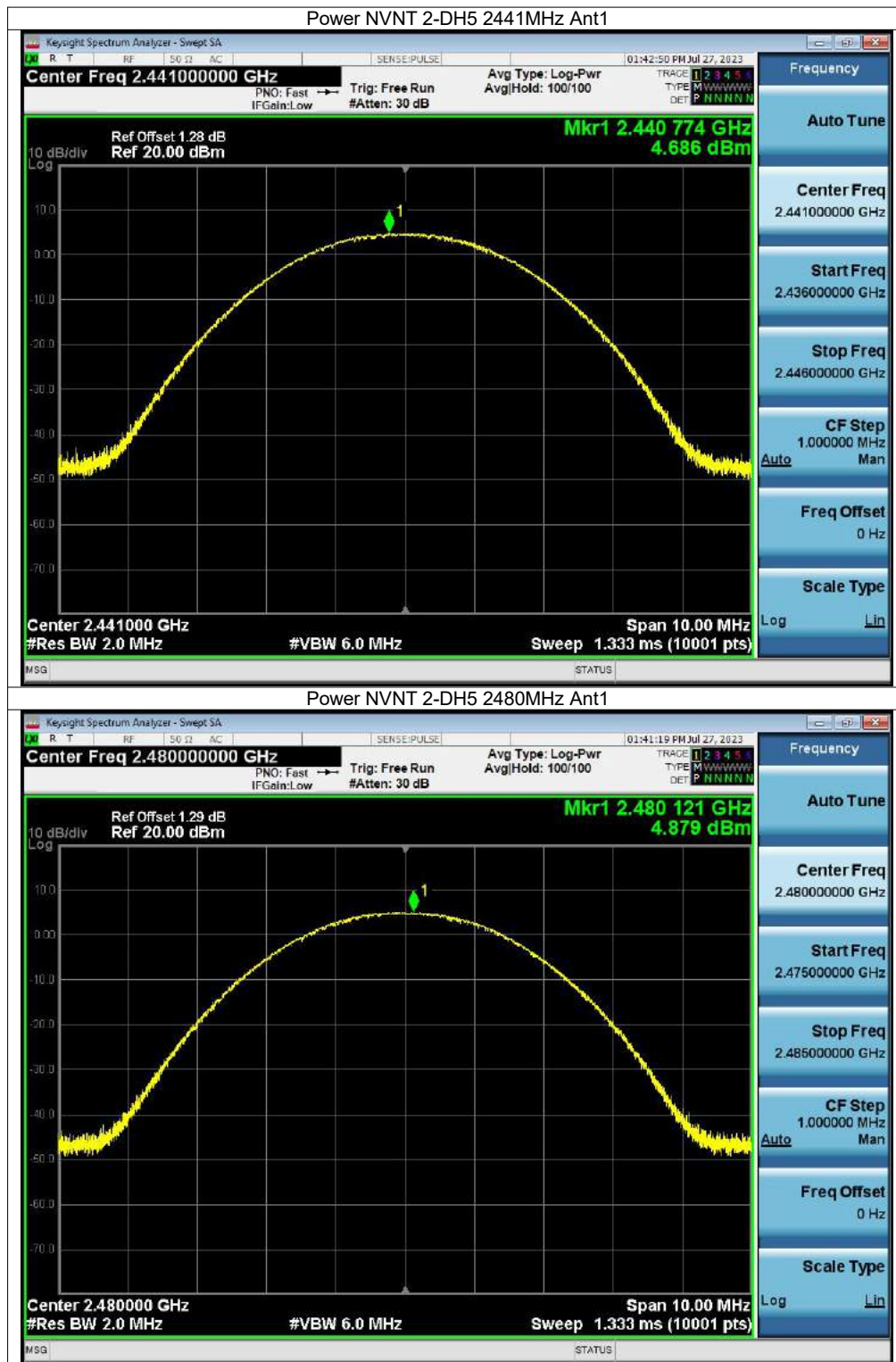
Rev.	Issue Date	Revisions	Revised By
V0	August 18, 2023	Initial Issue	Poal Chen

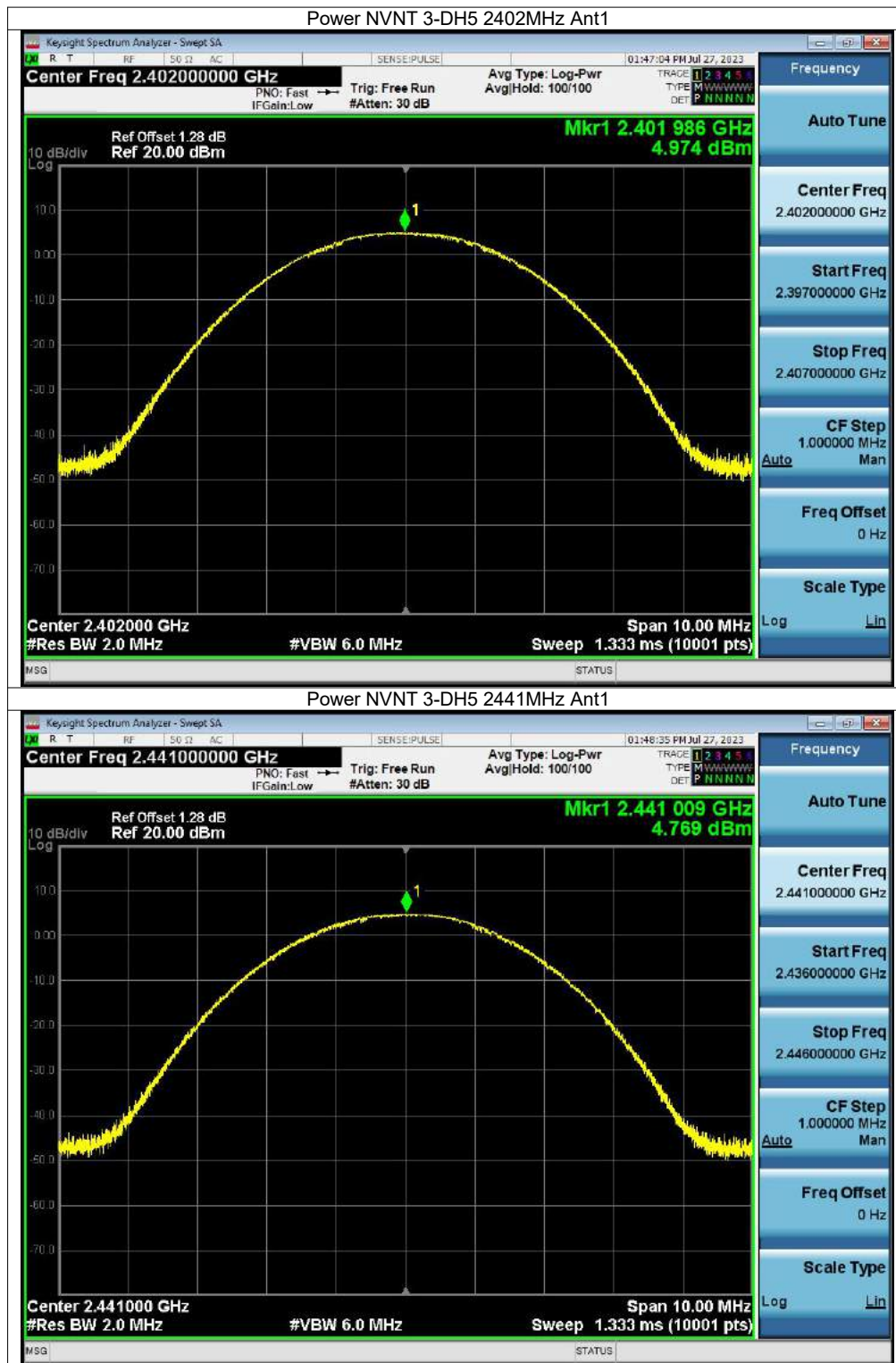
Appendix A Maximum Conducted Output Power

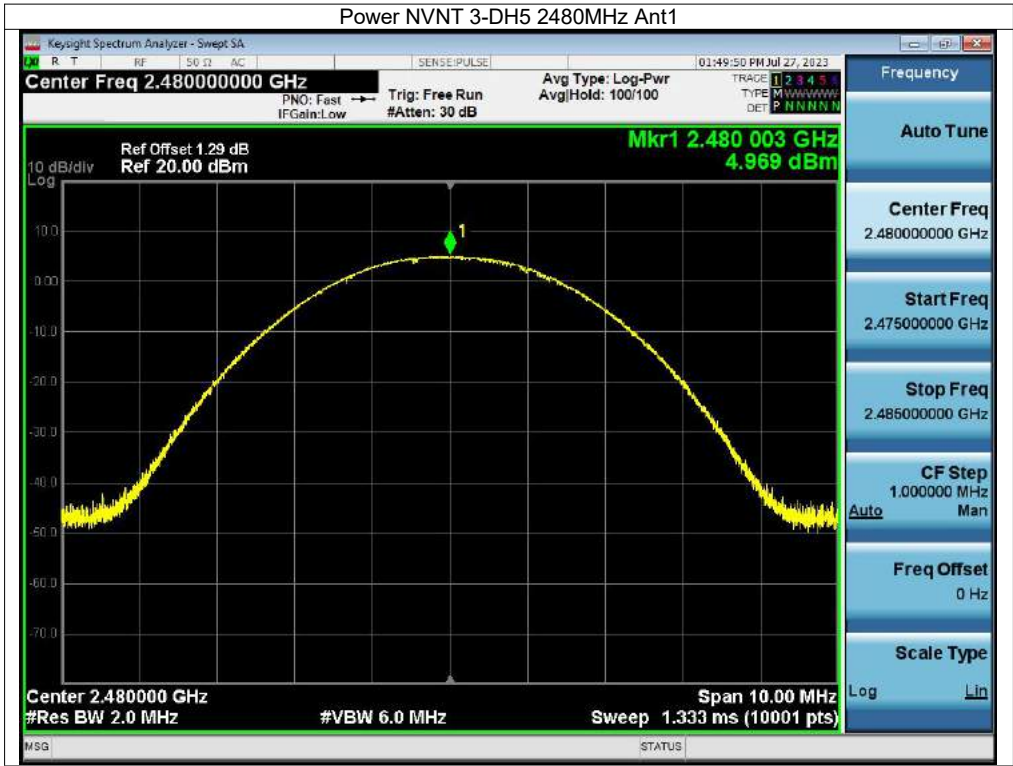
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	4.92	21	Pass
NVNT	1-DH5	2441	Ant1	4.74	21	Pass
NVNT	1-DH5	2480	Ant1	4.91	21	Pass
NVNT	2-DH5	2402	Ant1	4.87	21	Pass
NVNT	2-DH5	2441	Ant1	4.69	21	Pass
NVNT	2-DH5	2480	Ant1	4.88	21	Pass
NVNT	3-DH5	2402	Ant1	4.97	21	Pass
NVNT	3-DH5	2441	Ant1	4.77	21	Pass
NVNT	3-DH5	2480	Ant1	4.97	21	Pass











Appendix B -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)
NVNT	1-DH5	2402	Ant1	0.934
NVNT	1-DH5	2441	Ant1	0.94
NVNT	1-DH5	2480	Ant1	0.959
NVNT	2-DH5	2402	Ant1	1.311
NVNT	2-DH5	2441	Ant1	1.312
NVNT	2-DH5	2480	Ant1	1.252
NVNT	3-DH5	2402	Ant1	1.279
NVNT	3-DH5	2441	Ant1	1.233
NVNT	3-DH5	2480	Ant1	1.239



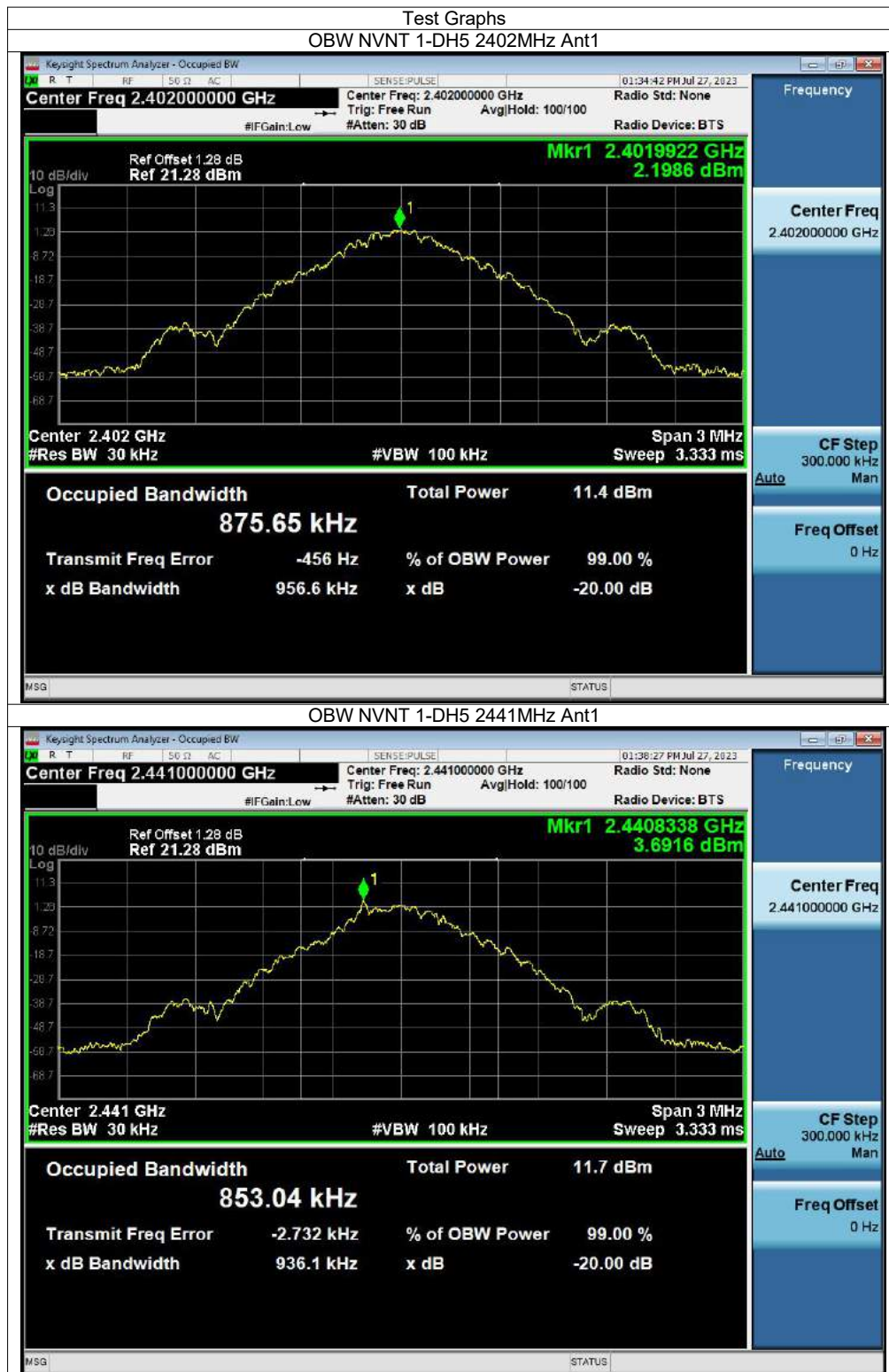






Appendix C Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.876
NVNT	1-DH5	2441	Ant1	0.853
NVNT	1-DH5	2480	Ant1	0.861
NVNT	2-DH5	2402	Ant1	1.161
NVNT	2-DH5	2441	Ant1	1.171
NVNT	2-DH5	2480	Ant1	1.174
NVNT	3-DH5	2402	Ant1	1.181
NVNT	3-DH5	2441	Ant1	1.156
NVNT	3-DH5	2480	Ant1	1.173







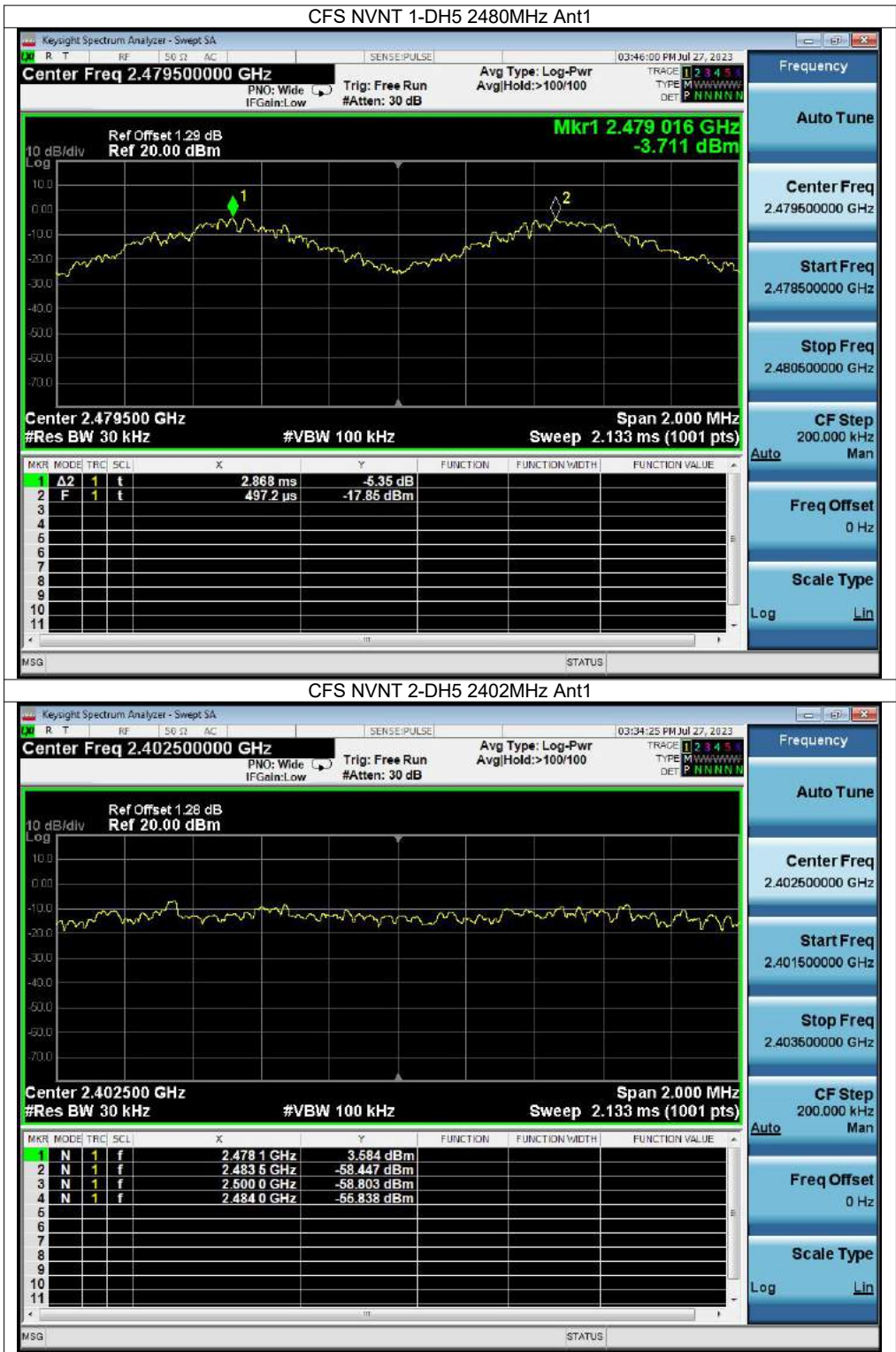




Appendix D Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.972	2403.002	1.03	0.623	Pass
NVNT	1-DH5	Ant1	2440.822	2441.832	1.01	0.627	Pass
NVNT	1-DH5	Ant1	2479.016	2479.962	0.946	0.639	Pass
NVNT	2-DH5	Ant1	2401.846	2403.17	1.324	0.874	Pass
NVNT	2-DH5	Ant1	2440.838	2441.974	1.136	0.875	Pass
NVNT	2-DH5	Ant1	2478.998	2480.152	1.154	0.835	Pass
NVNT	3-DH5	Ant1	2402.008	2403	0.992	0.853	Pass
NVNT	3-DH5	Ant1	2440.902	2441.824	0.922	0.822	Pass
NVNT	3-DH5	Ant1	2478.916	2479.994	1.078	0.826	Pass





CFS NVNT 2-DH5 2402MHz Ant1

Keyight Spectrum Analyzer - Swept SA

03:46:25 PM Jul 27, 2023

Center Freq 2.402500000 GHz

PNO: Wide IFGain:Low

Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr AvgHold:>100/100

TRACE 1 2 3 4 5

TYPE M W W W W W W W

DET P N N N N N

Ref Offset 1.28 dB

Ref 20.00 dBm

10 dB/div

Log

Center 2.402500 GHz

#Res BW 30 kHz

#VBW 100 kHz

Span 2.000 MHz

Sweep 2.133 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.478 1 GHz	3.584 dBm			
2	N	1	f	2.483 5 GHz	-58.447 dBm			
3	N	1	f	2.500 0 GHz	-58.803 dBm			
4	N	1	f	2.484 0 GHz	-55.838 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.402500000 GHz

Start Freq 2.401500000 GHz

Stop Freq 2.403500000 GHz

CF Step 200.000 kHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin



CFS NVNT 2-DH5 2480MHz Ant1

Keyight Spectrum Analyzer - Swept SA

03:39:46 PM Jul 27, 2023

Center Freq 2.479500000 GHz

PNO: Wide IFGain:Low

Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr AvgHold:>100/100

TRACE 1 2 3 4 5

TYPE M W W W W W W W

DET P N N N N N

Ref Offset 1.28 dB

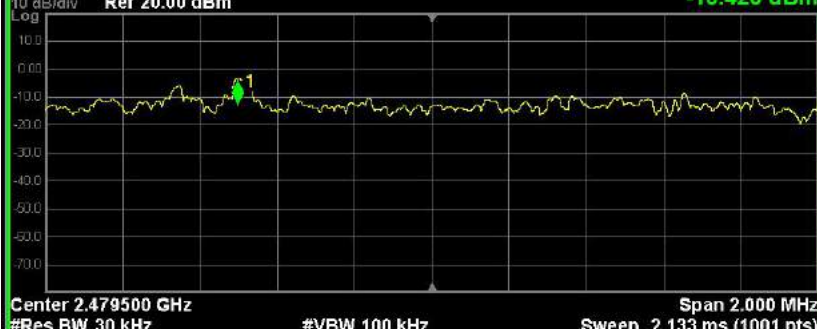
Ref 20.00 dBm

Mkr1 2.479 500 GHz

-13.426 dBm

10 dB/div

Log



Center 2.479500 GHz

#Res BW 30 kHz

#VBW 100 kHz

Span 2.000 MHz

Sweep 2.133 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.476 0 GHz	-2.664 dBm			
2	N	1	f	2.483 5 GHz	-59.308 dBm			
3	N	1	f	2.500 0 GHz	-58.547 dBm			
4	N	1	f	2.493 0 GHz	-56.089 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 2.479500000 GHz

Start Freq 2.478500000 GHz

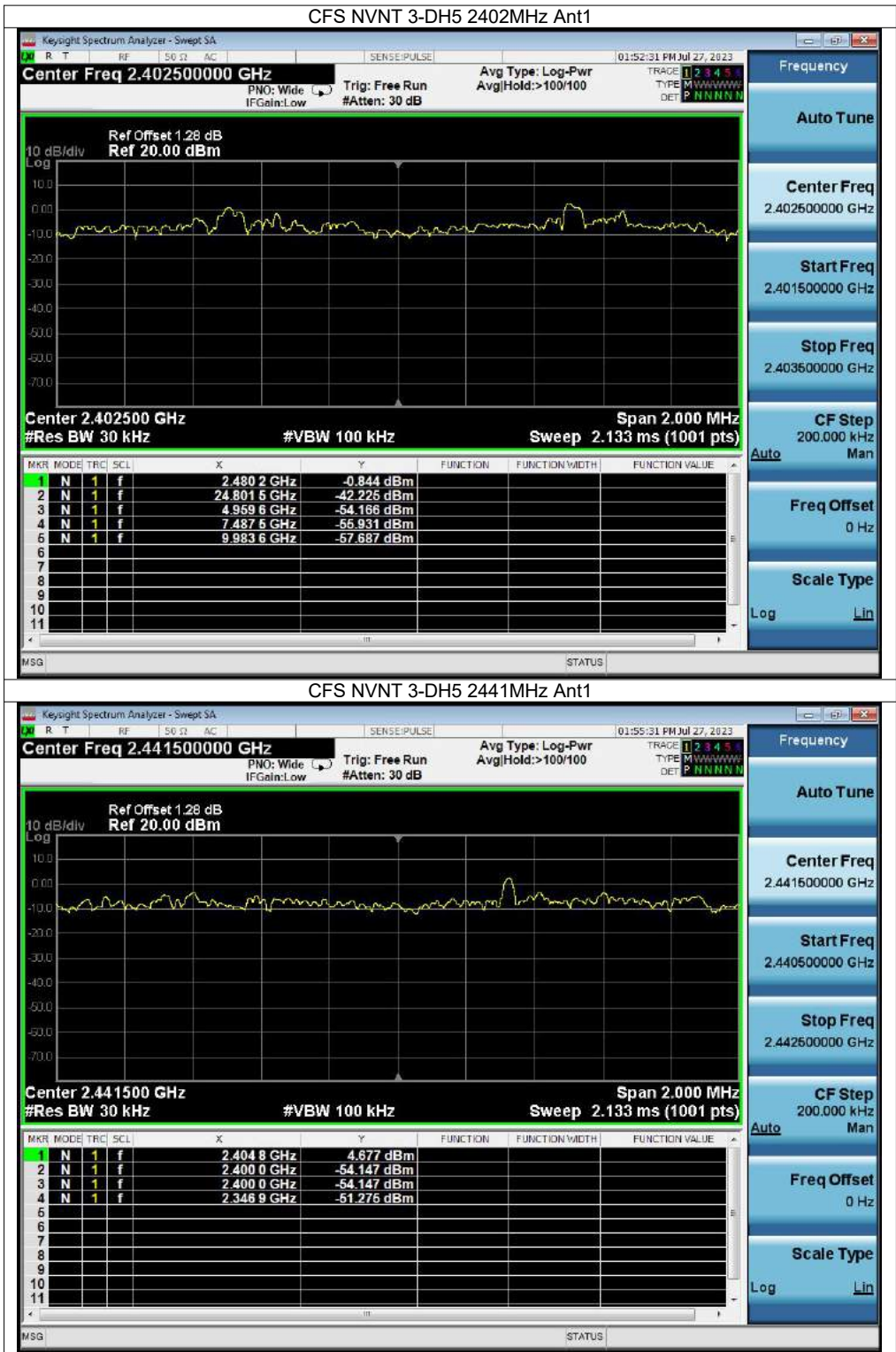
Stop Freq 2.480500000 GHz

CF Step 200.000 kHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin



CFS NVNT 3-DH5 2441MHz Ant1

KeySight Spectrum Analyzer - Swept SA

01:55:31 PM Jul 27, 2023

Center Freq 2.441500000 GHz

PNO: Wide IFGain:Low

Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr AvgHold:>100/100

TRACE 1 2 3 4 5

TYPE M W W W W W W W

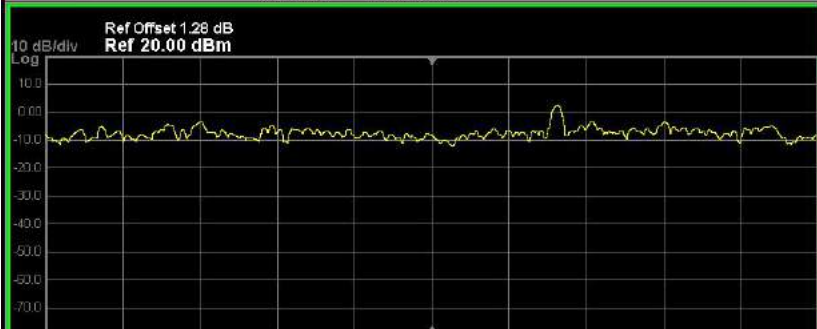
DET P N N N N N

Ref Offset 1.28 dB

Ref 20.00 dBm

10 dB/div

Log



Center 2.441500 GHz

#Res BW 30 kHz

#VBW 100 kHz

Span 2.000 MHz

Sweep 2.133 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.404 8 GHz	4.677 dBm			
2	N	1	f	2.400 0 GHz	-54.147 dBm			
3	N	1	f	2.400 0 GHz	-54.147 dBm			
4	N	1	f	2.348 9 GHz	-51.275 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 2.441500000 GHz

Start Freq 2.440500000 GHz

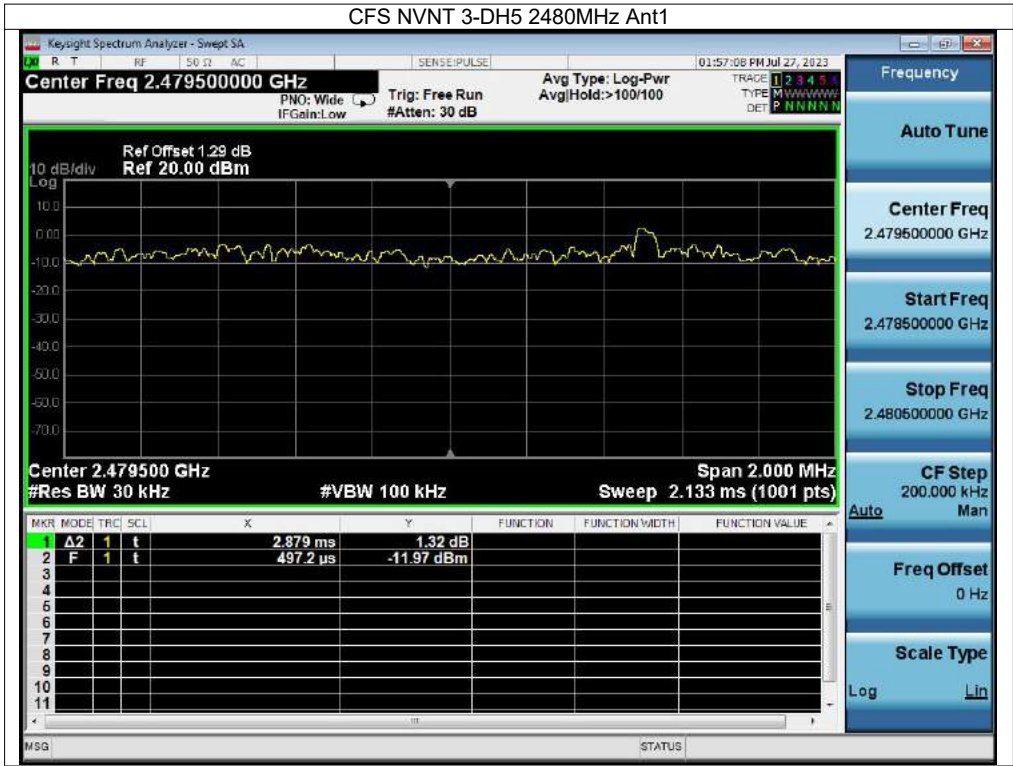
Stop Freq 2.442500000 GHz

CF Step 200.000 kHz

Auto Man

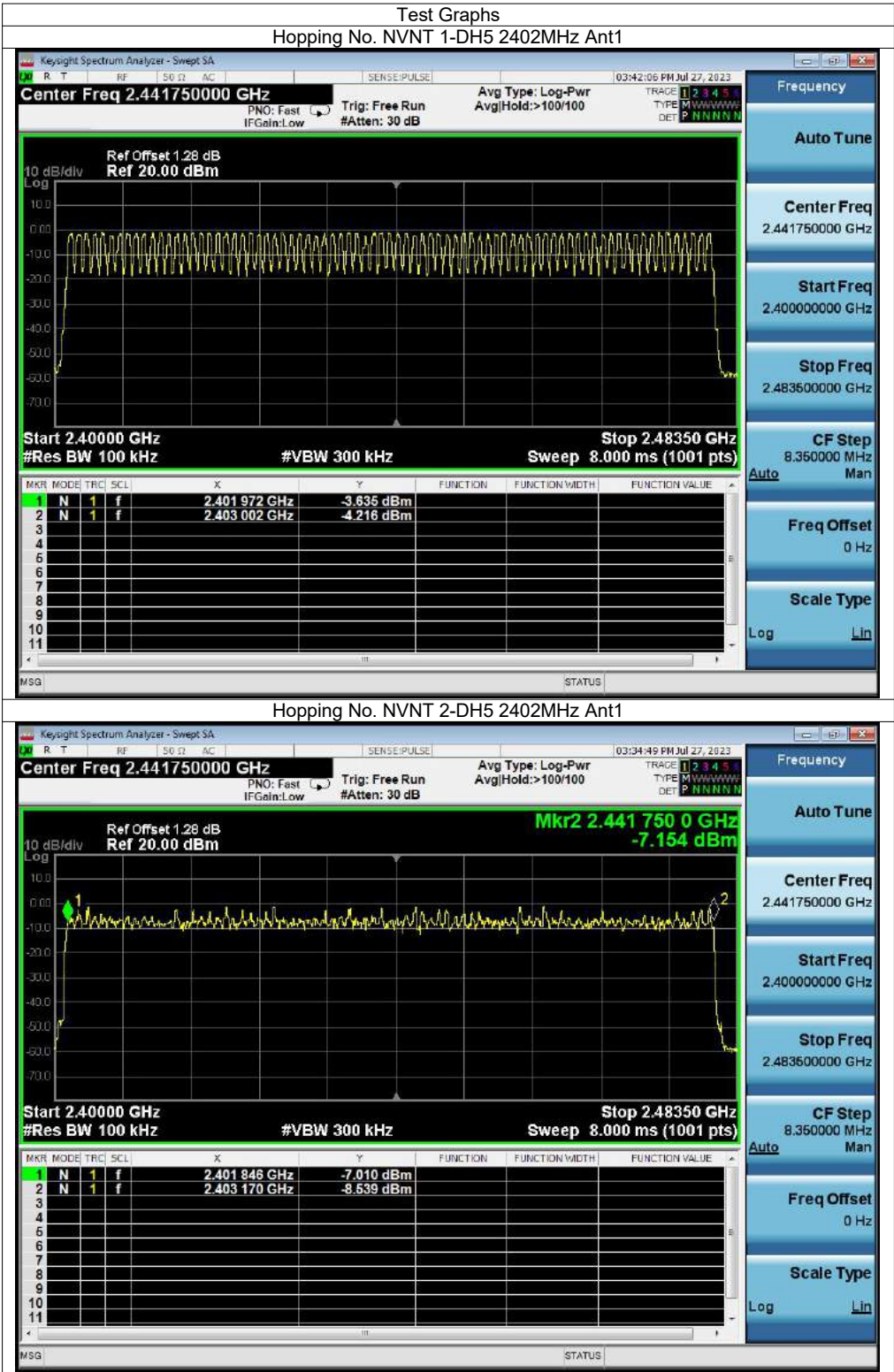
Freq Offset 0 Hz

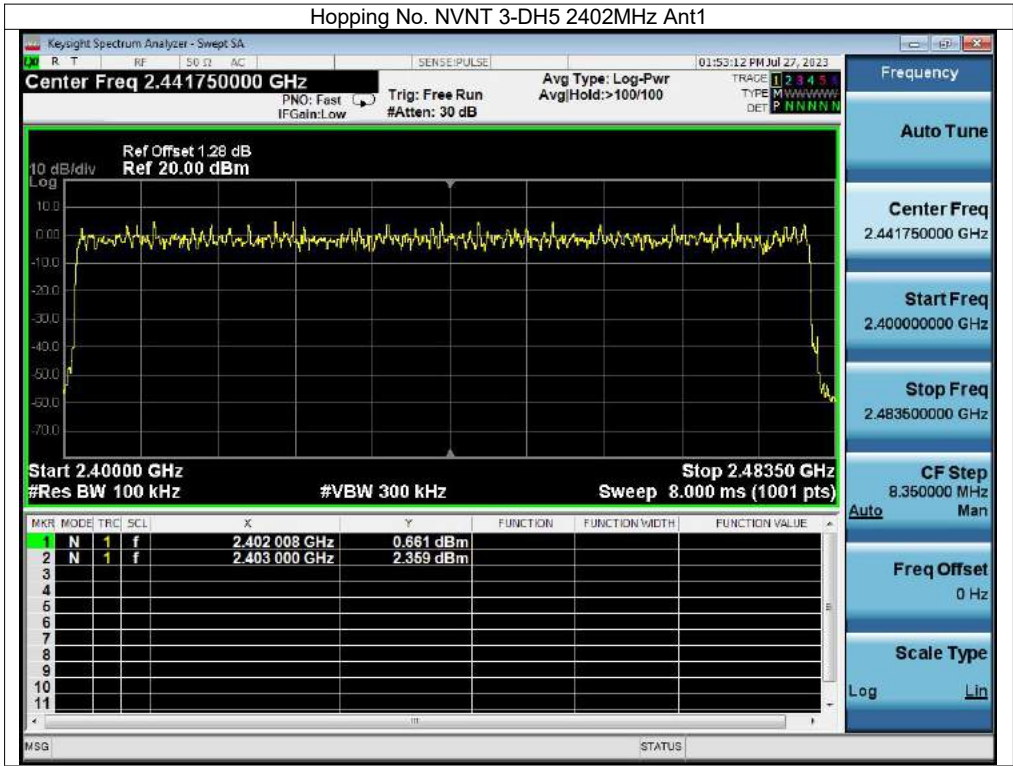
Scale Type Log Lin



Appendix E Number of Hopping Channel

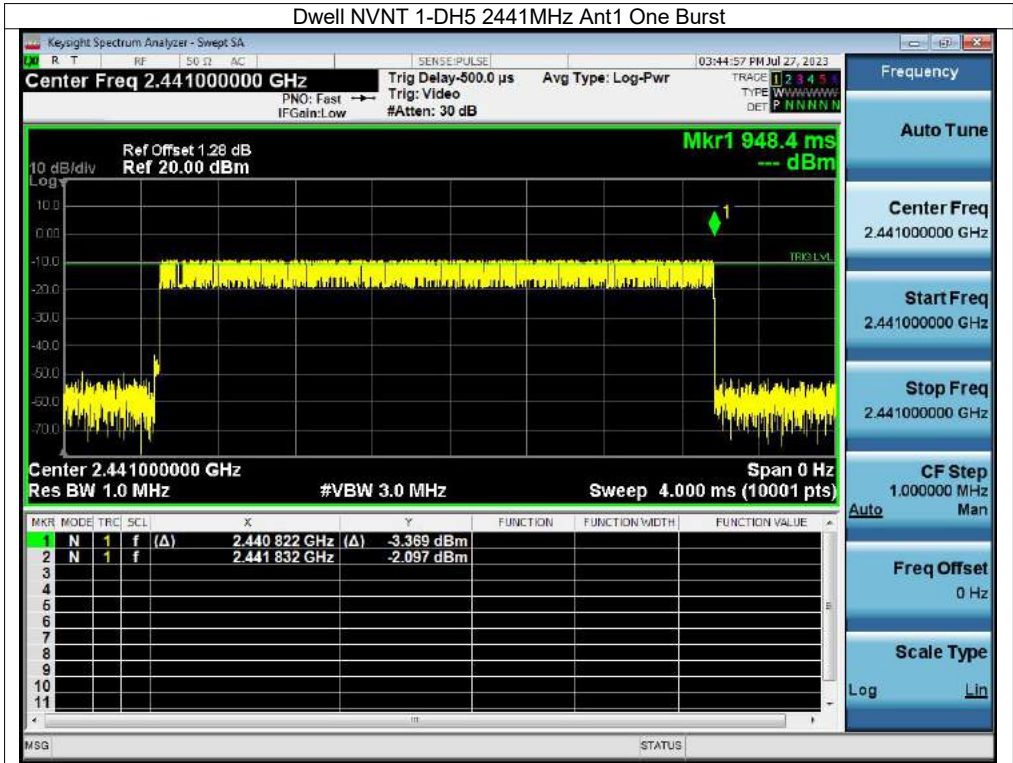
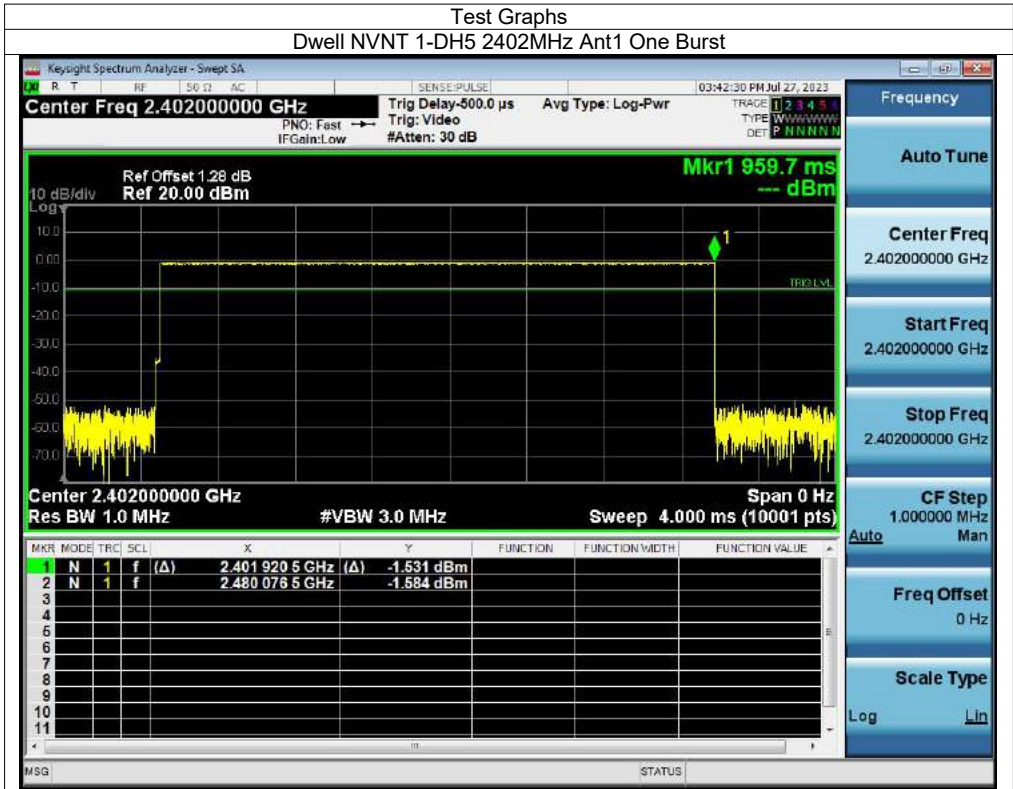
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

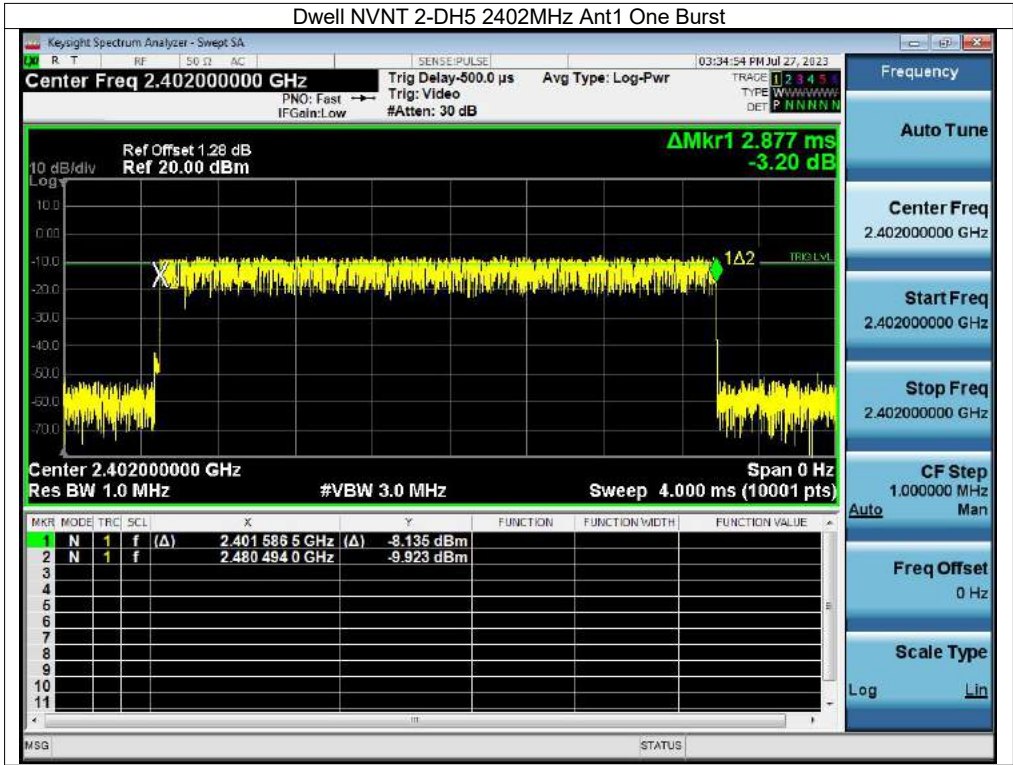
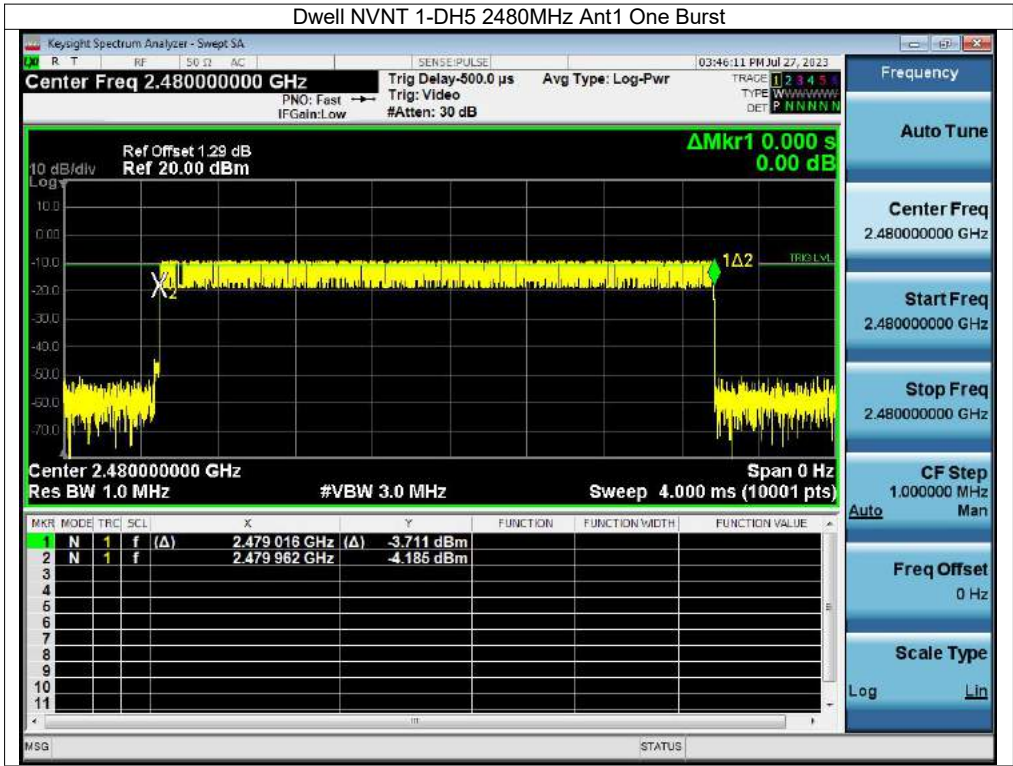


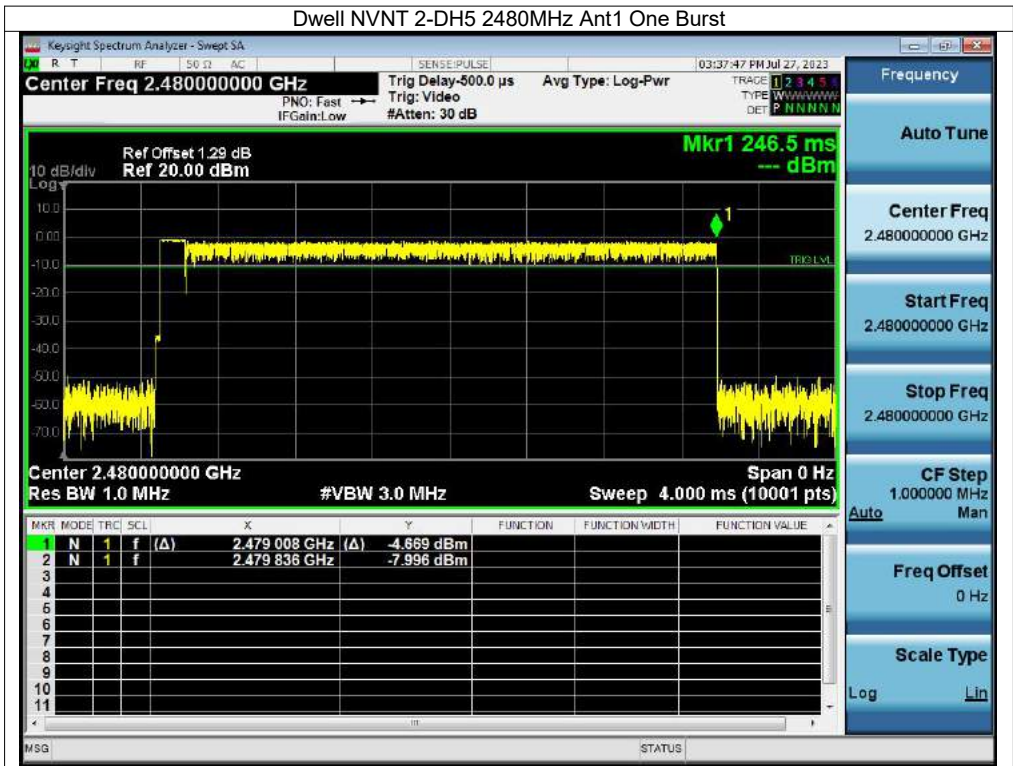
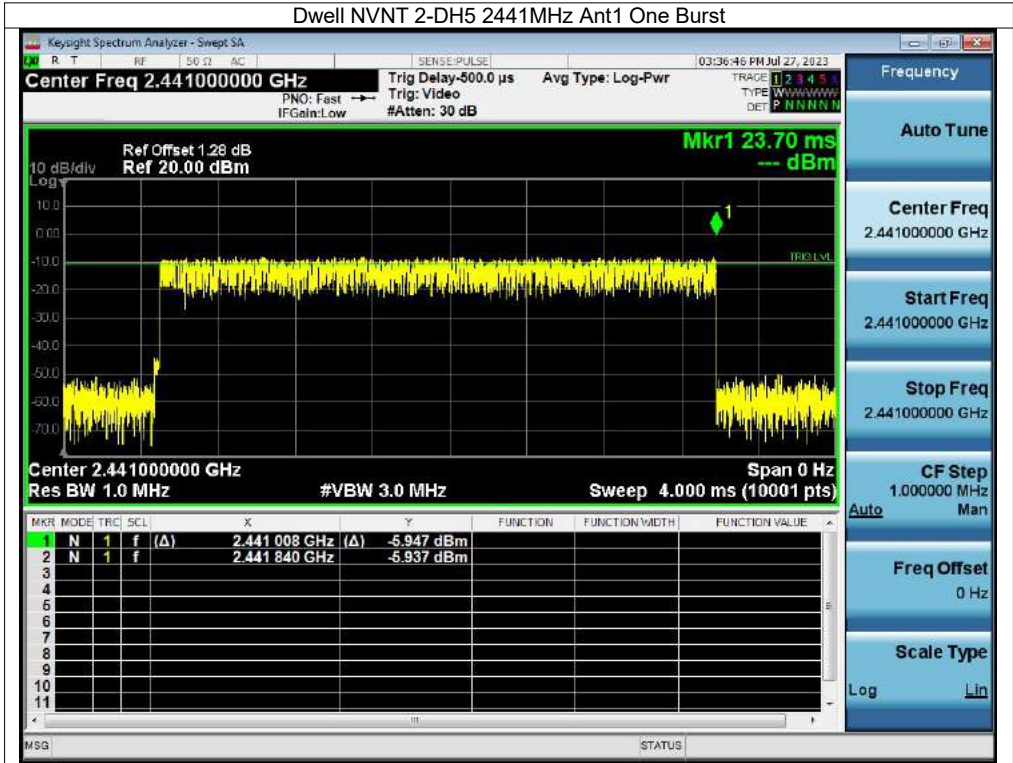


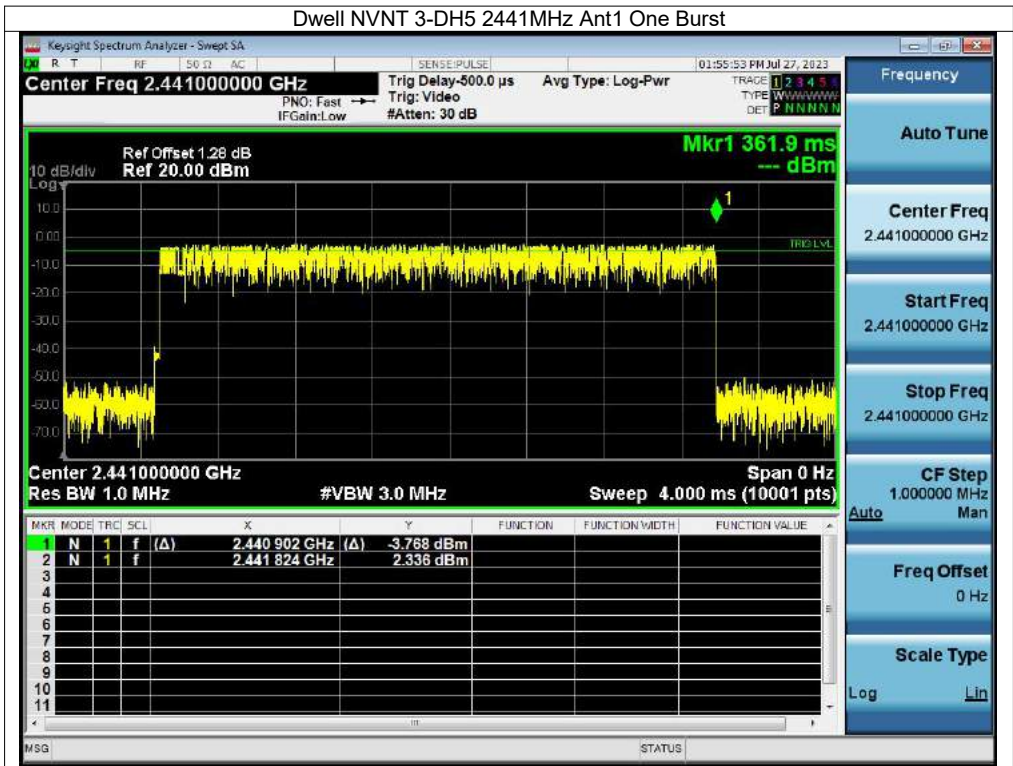
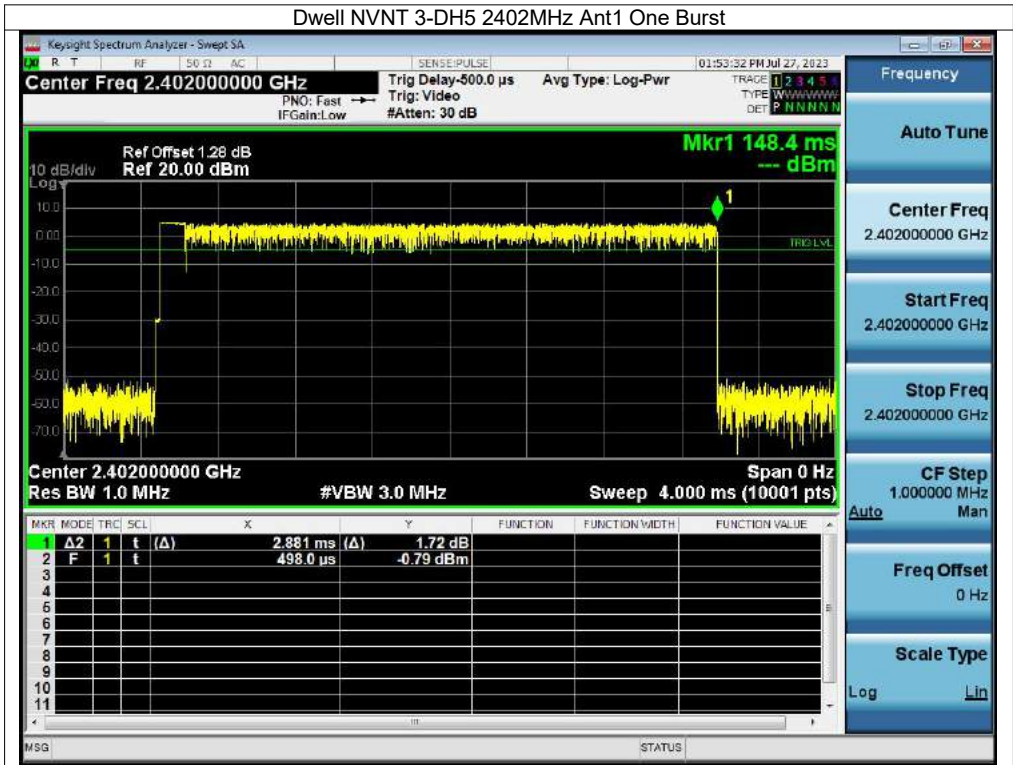
Appendix F Dwell Time

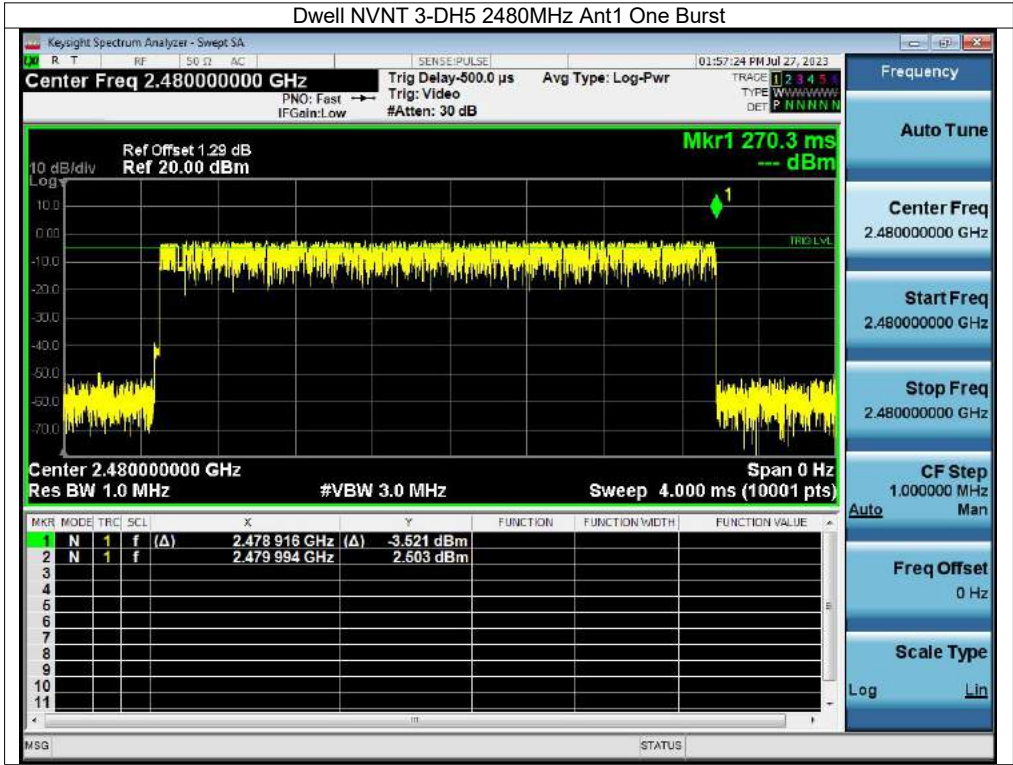
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.869	306.027	400	Pass
NVNT	1-DH5	2441	Ant1	2.868	305.920	400	Pass
NVNT	1-DH5	2480	Ant1	2.868	305.920	400	Pass
NVNT	2-DH5	2402	Ant1	2.877	306.880	400	Pass
NVNT	2-DH5	2441	Ant1	2.88	307.200	400	Pass
NVNT	2-DH5	2480	Ant1	2.88	307.200	400	Pass
NVNT	3-DH5	2402	Ant1	2.881	307.307	400	Pass
NVNT	3-DH5	2441	Ant1	2.879	307.093	400	Pass
NVNT	3-DH5	2480	Ant1	2.879	307.093	400	Pass





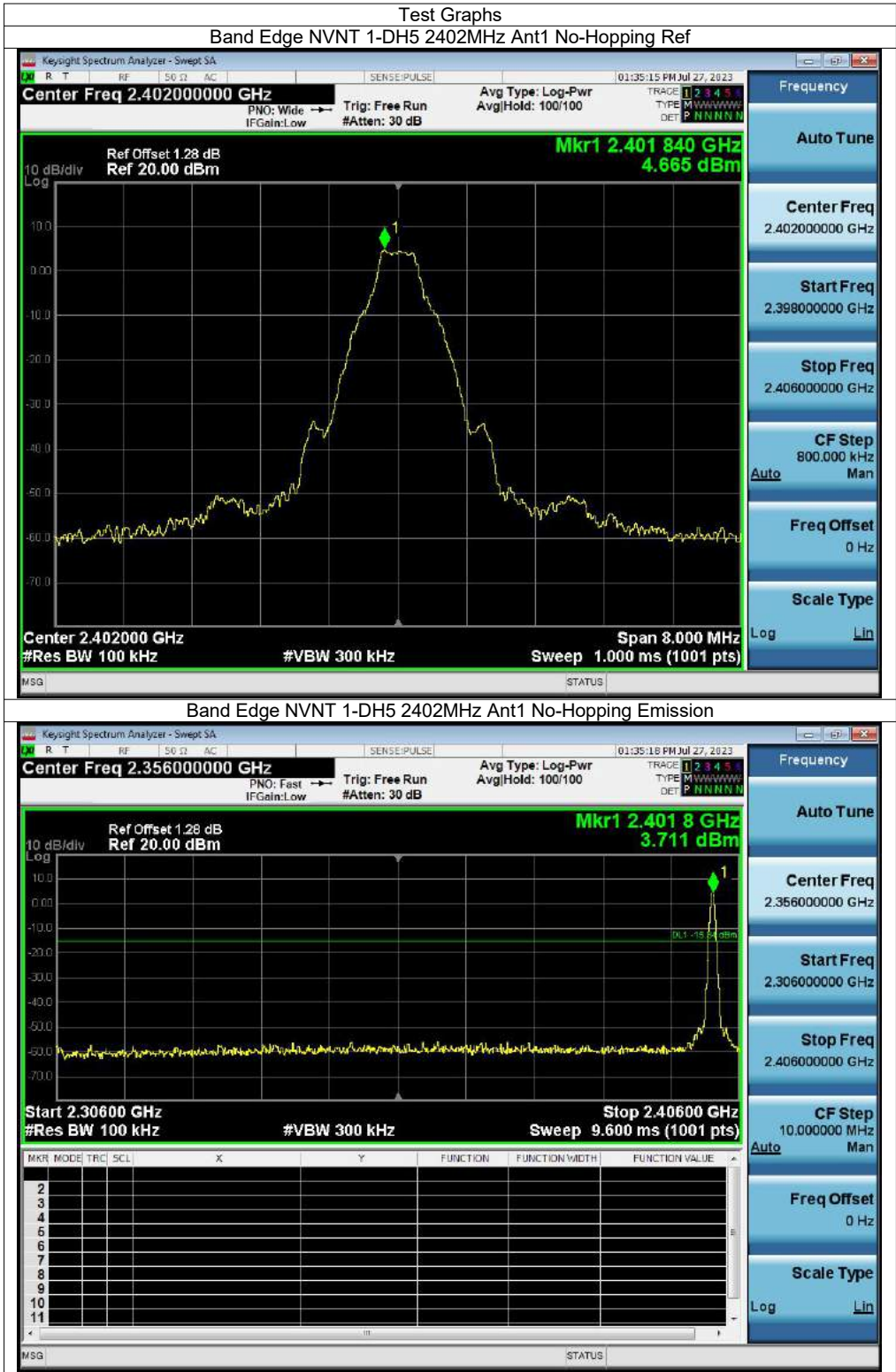


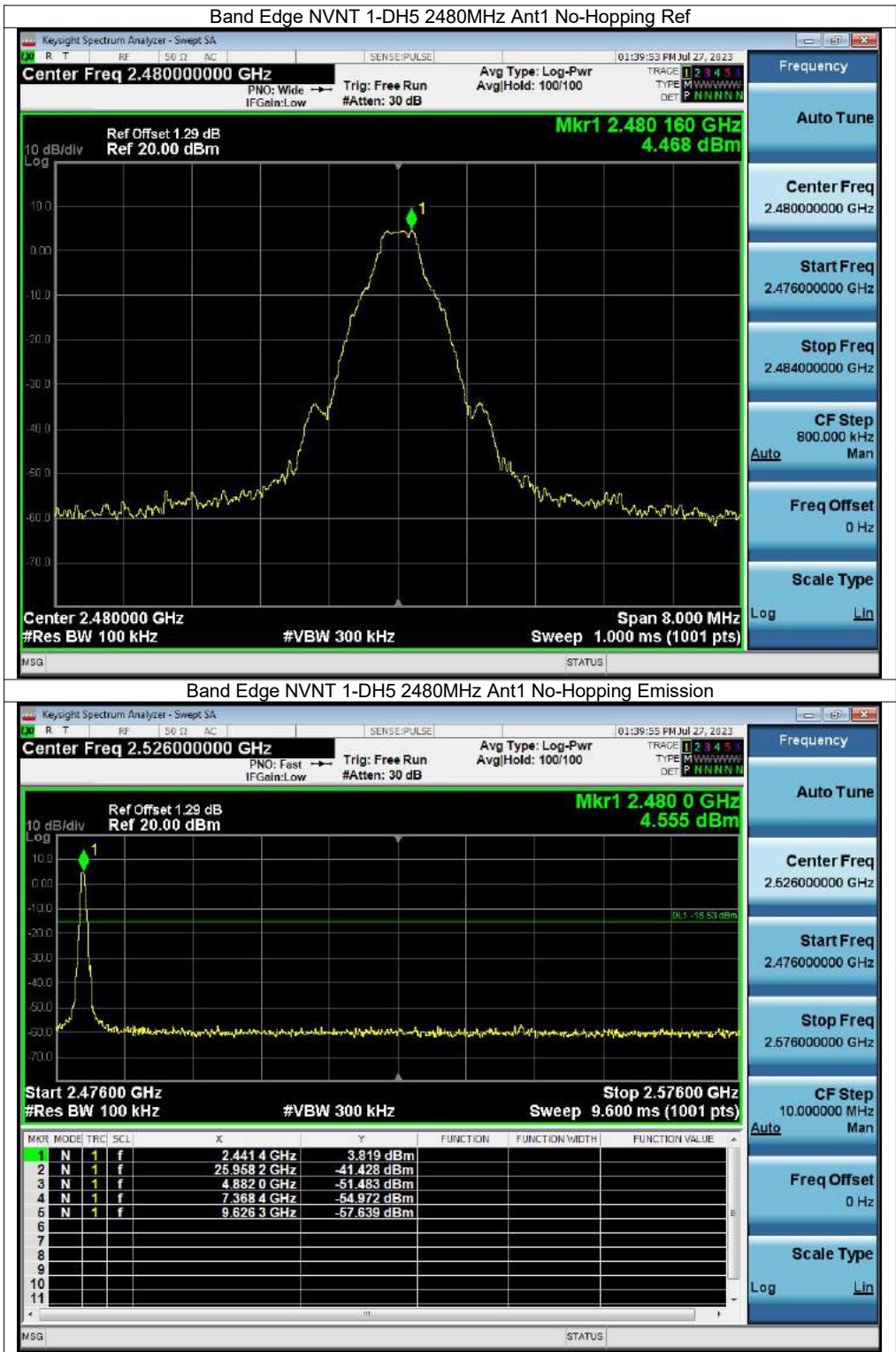


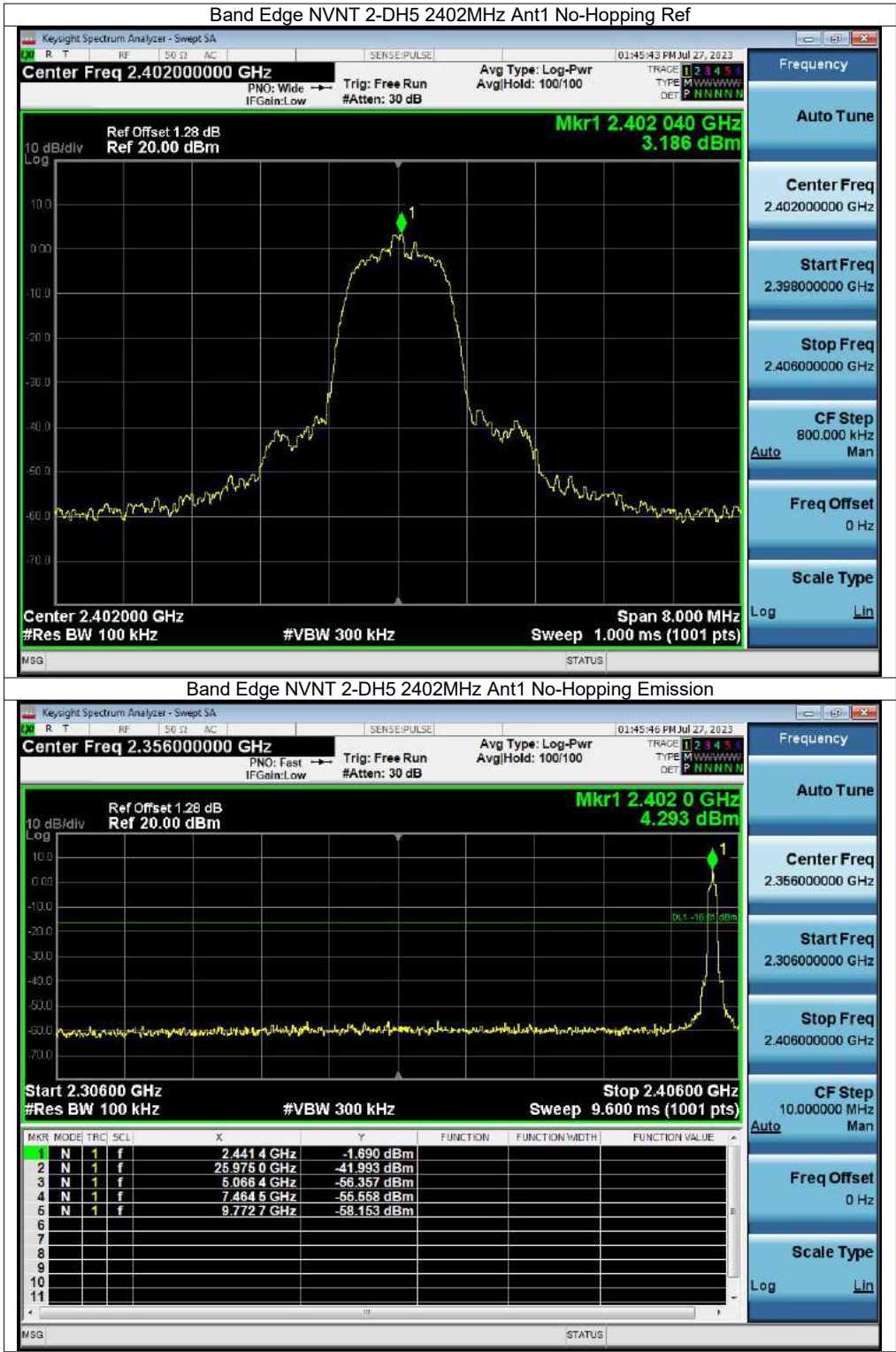


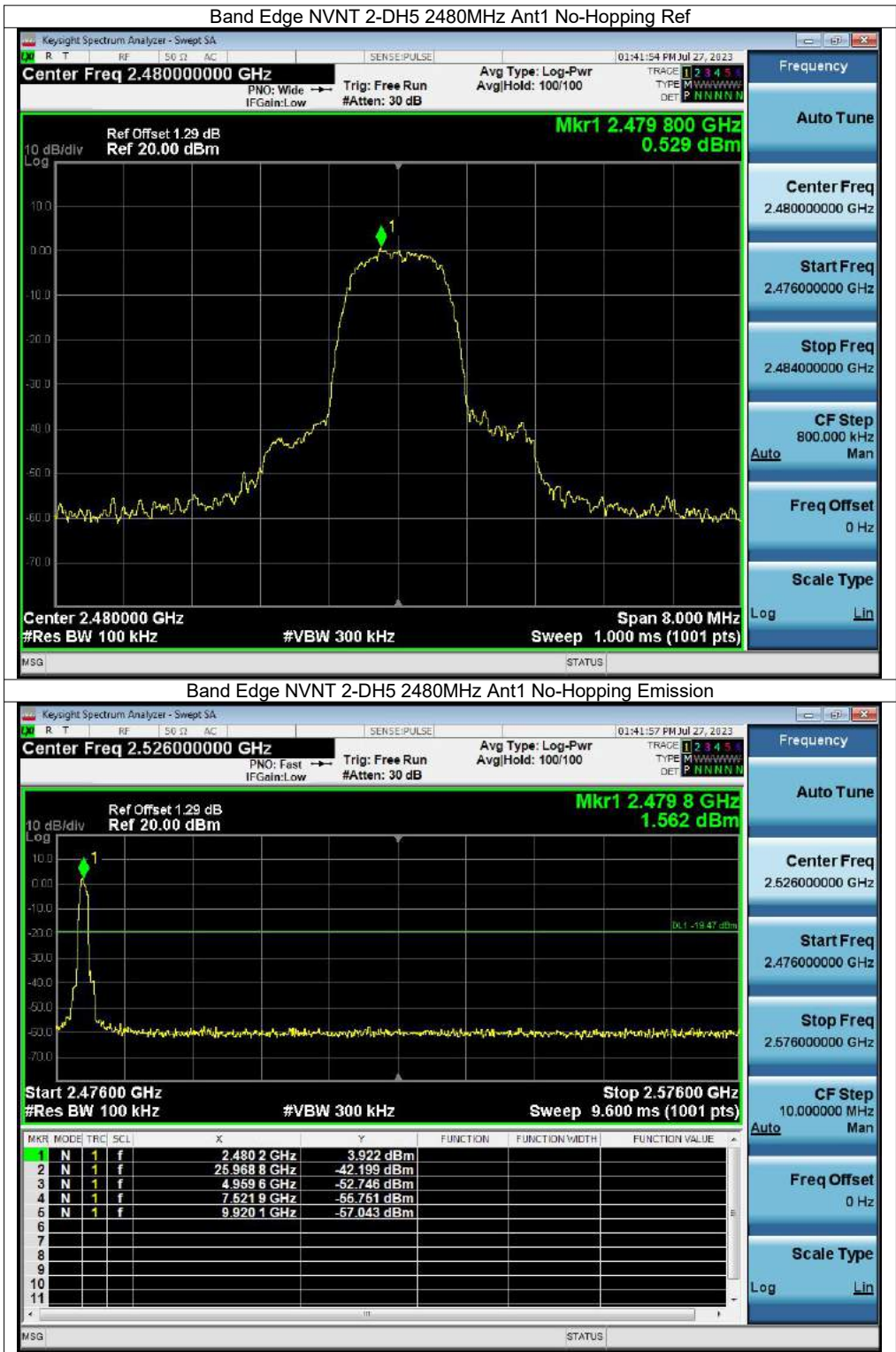
Appendix G Band Edge

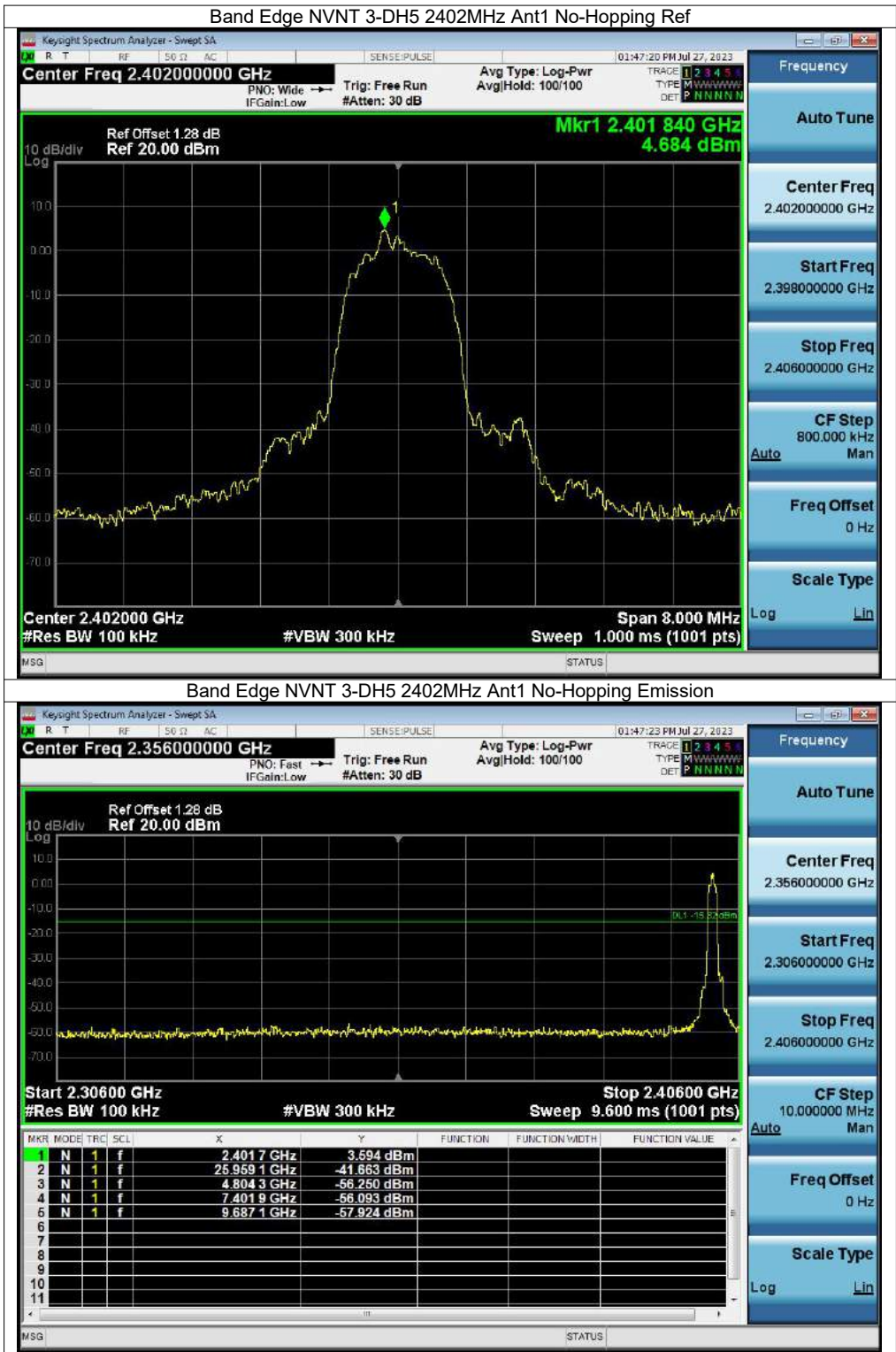
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.19	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.27	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.19	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.26	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-58.3	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-60.83	-20	Pass

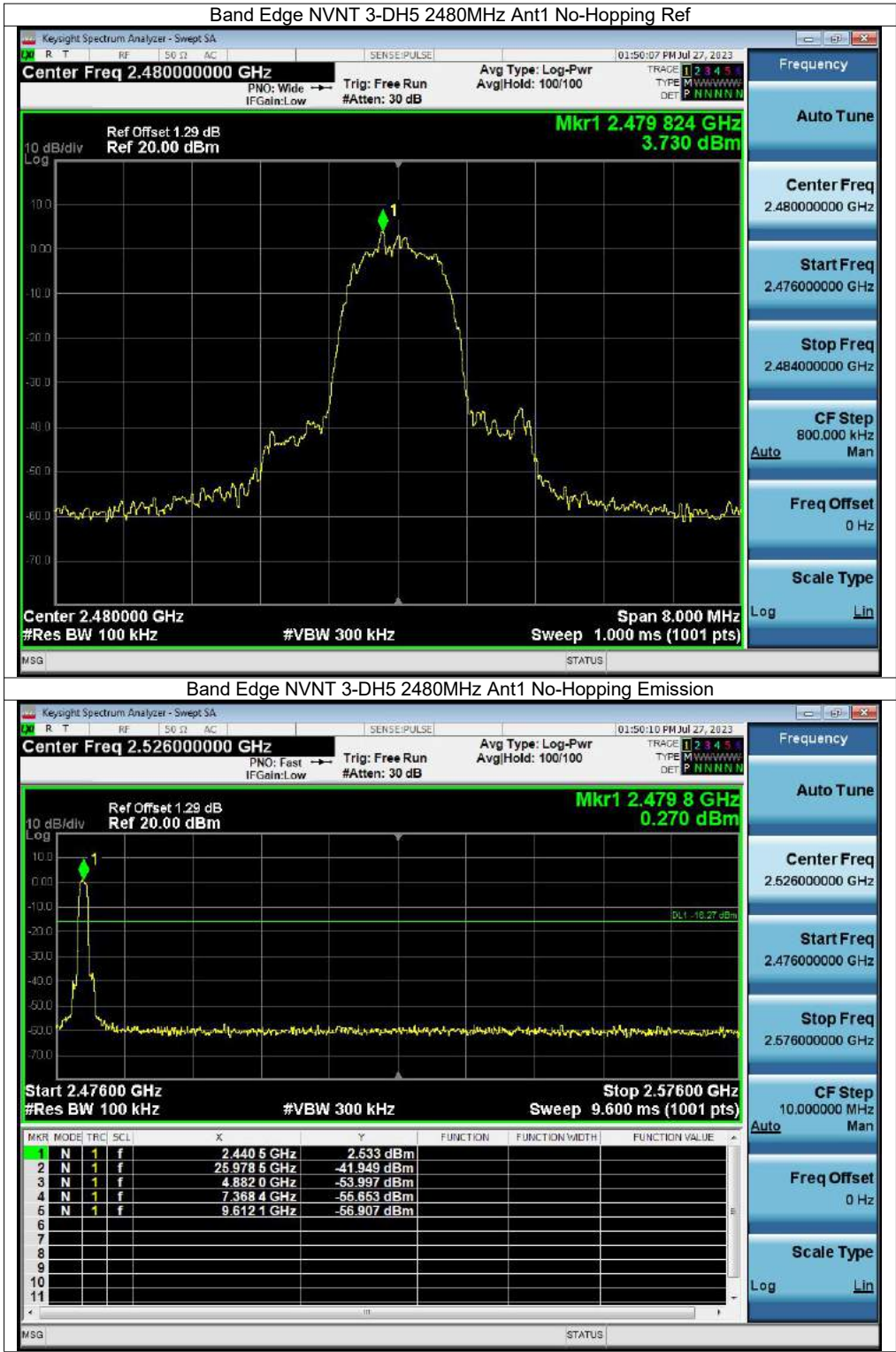












Appendix H Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-49.95	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.69	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.56	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.37	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.65	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-60.5	-20	Pass













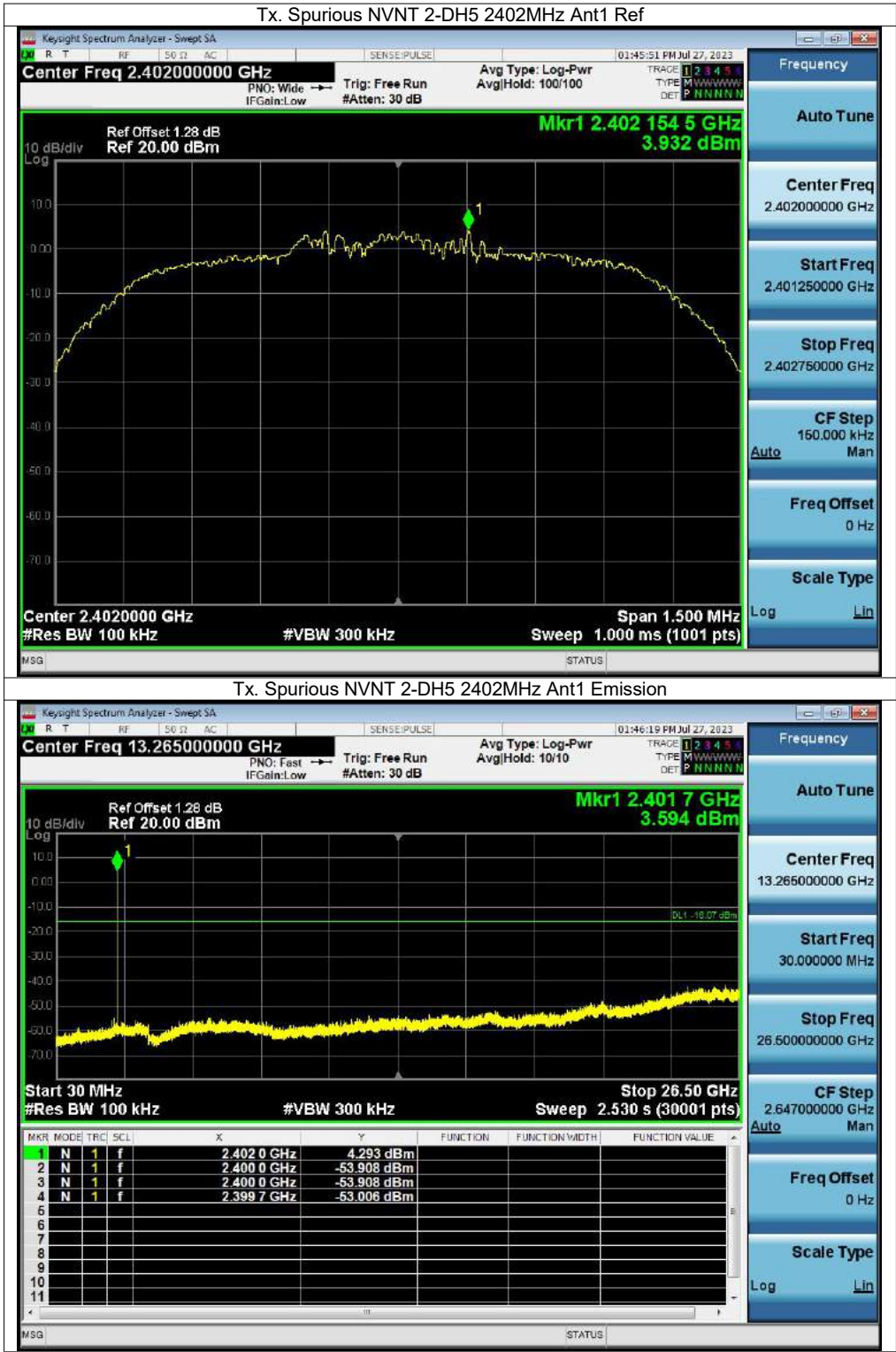
Appendix I Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-46.8	-20	Pass
NVNT	1-DH5	2441	Ant1	-45.87	-20	Pass
NVNT	1-DH5	2480	Ant1	-46.87	-20	Pass
NVNT	2-DH5	2402	Ant1	-45.59	-20	Pass
NVNT	2-DH5	2441	Ant1	-45.39	-20	Pass
NVNT	2-DH5	2480	Ant1	-46.98	-20	Pass
NVNT	3-DH5	2402	Ant1	-45.56	-20	Pass
NVNT	3-DH5	2441	Ant1	-46.38	-20	Pass
NVNT	3-DH5	2480	Ant1	-46.91	-20	Pass

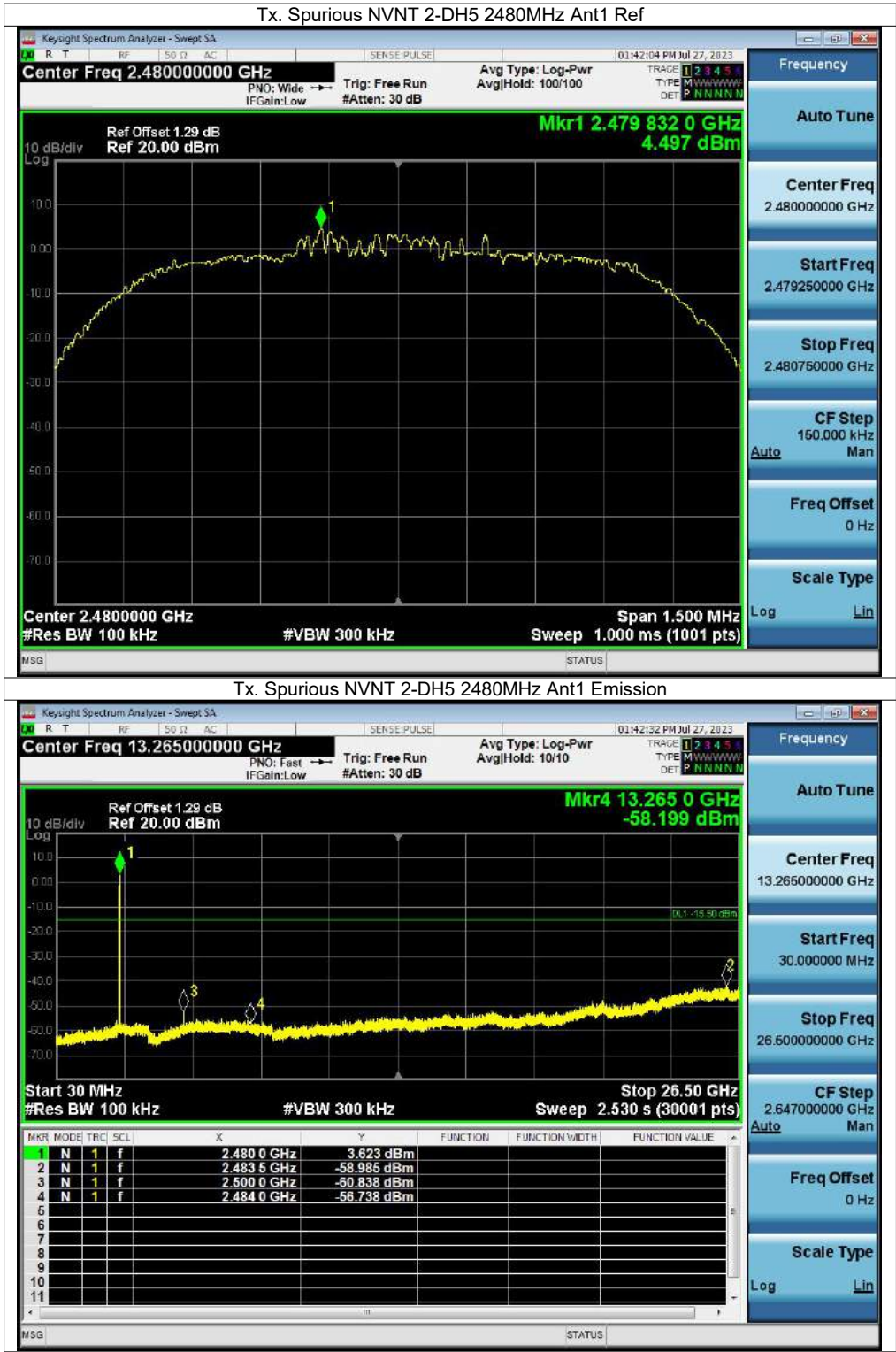


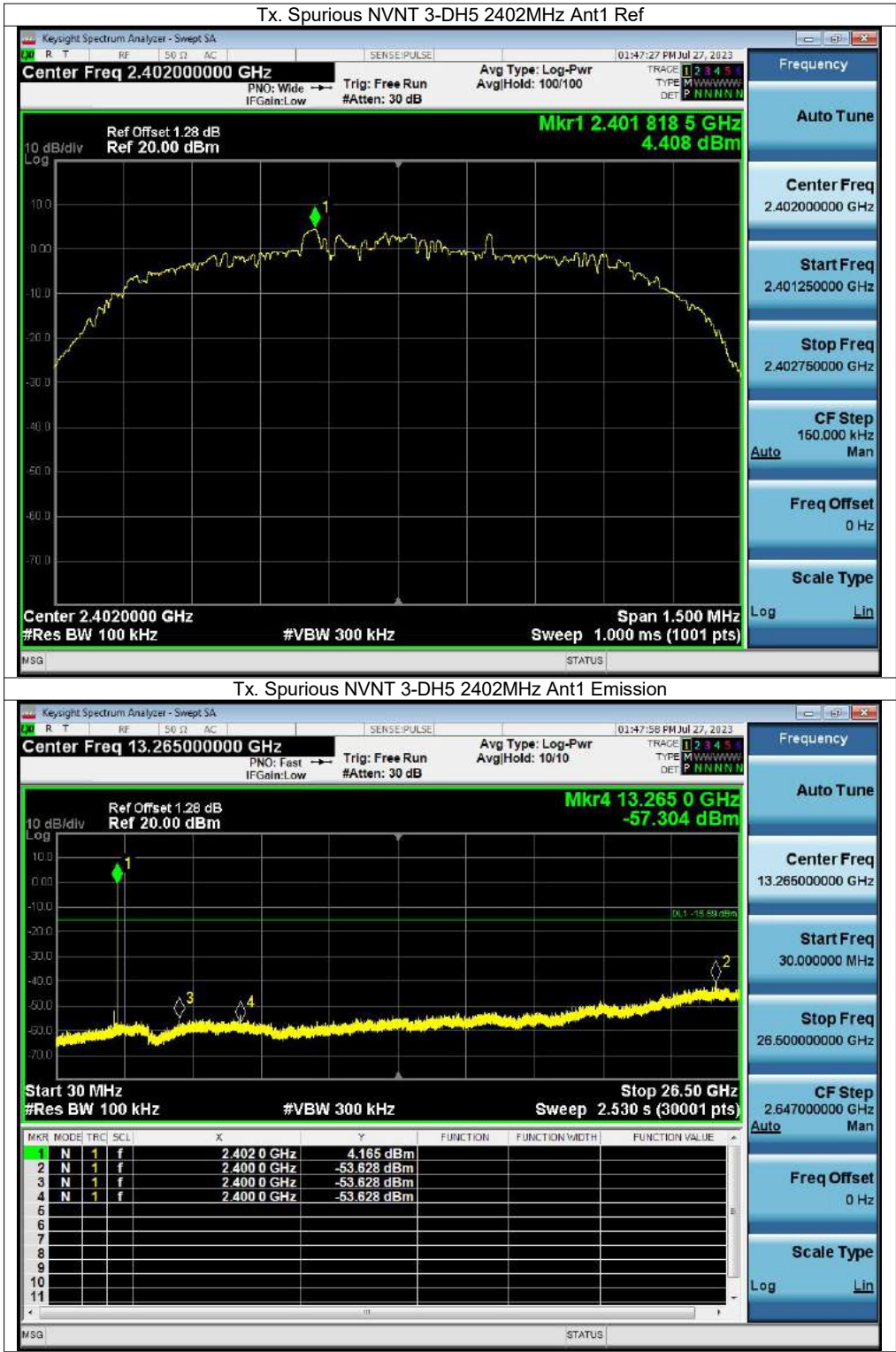


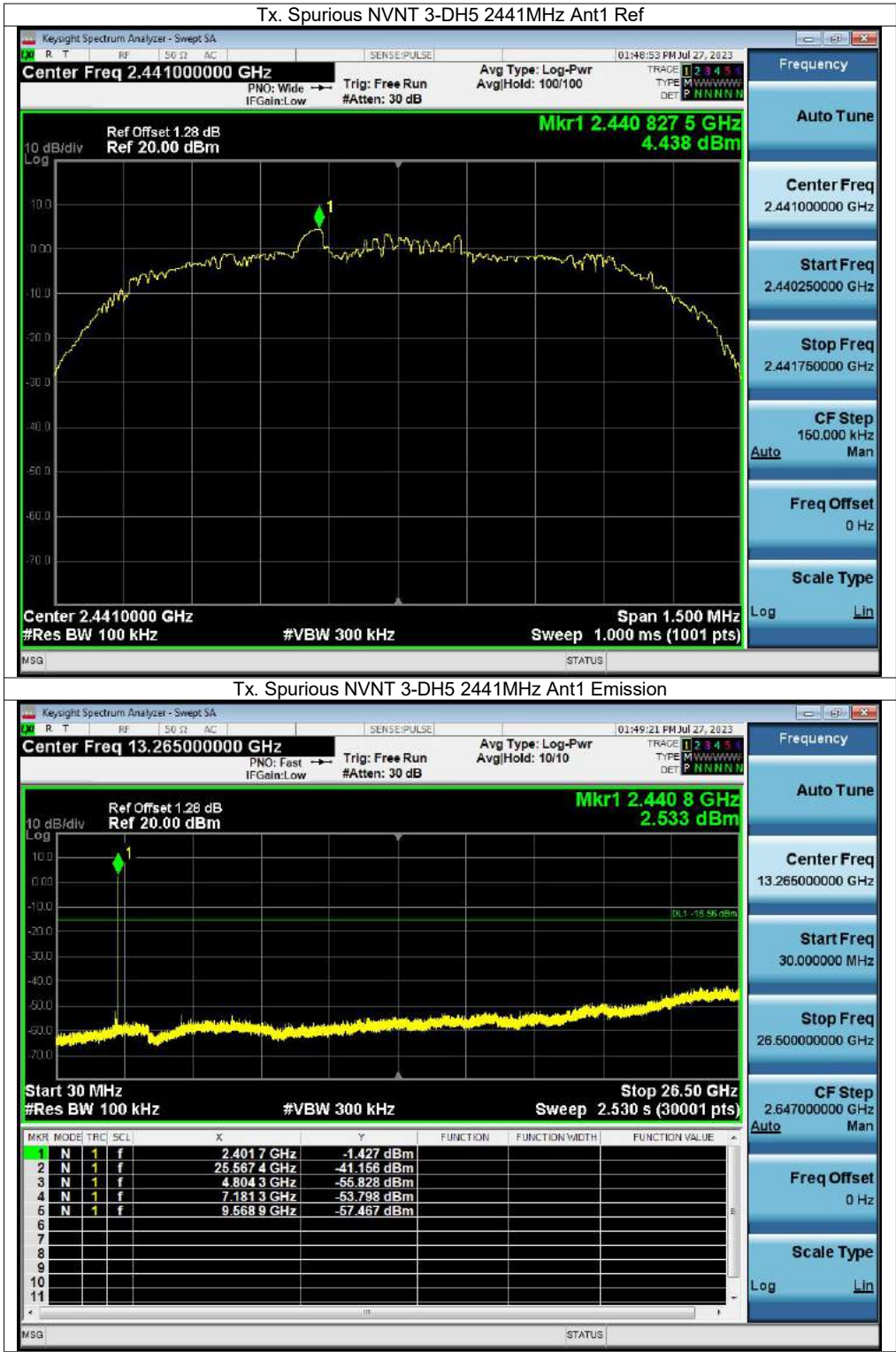














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