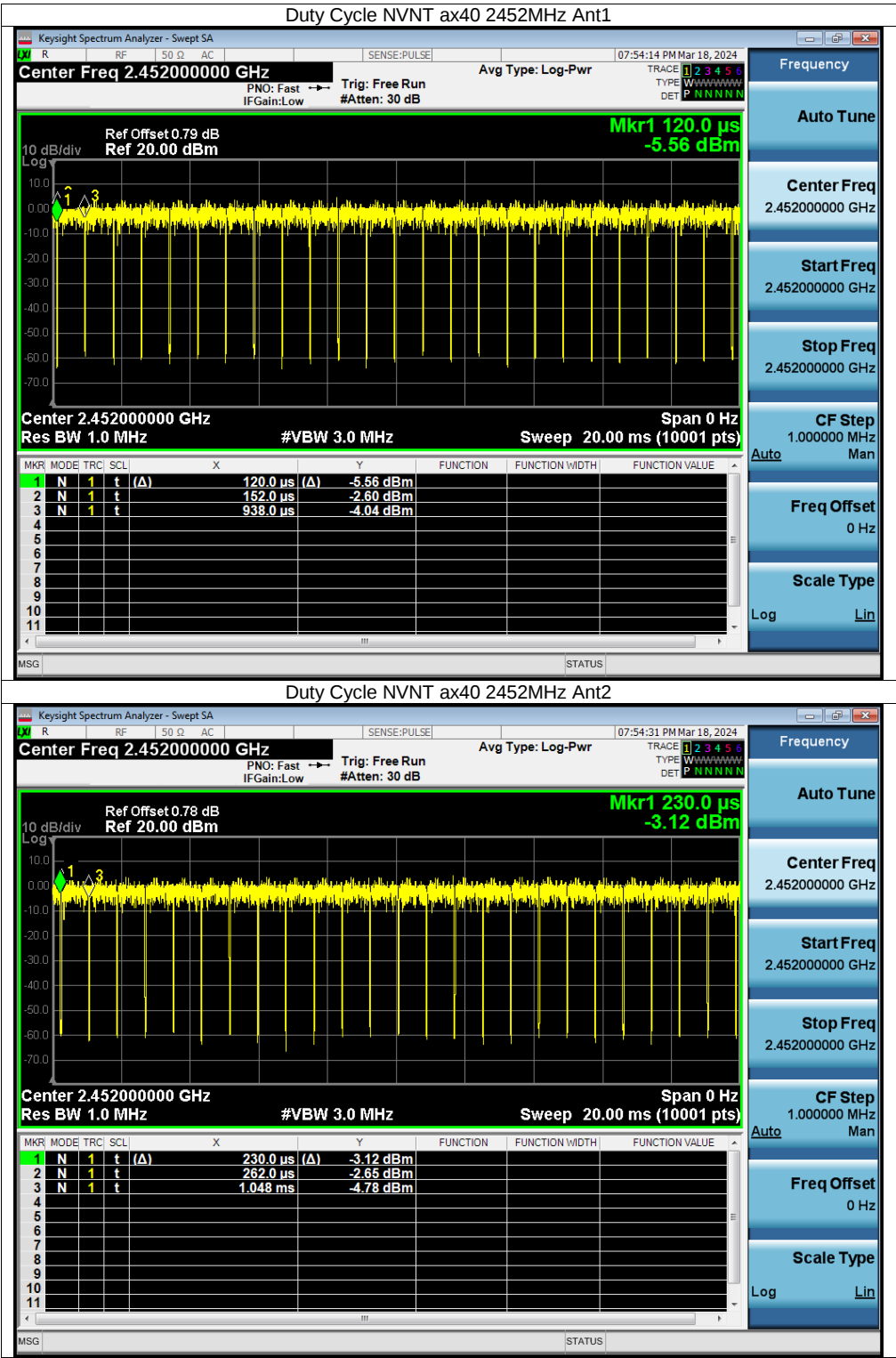




Maximum Conducted Output Power

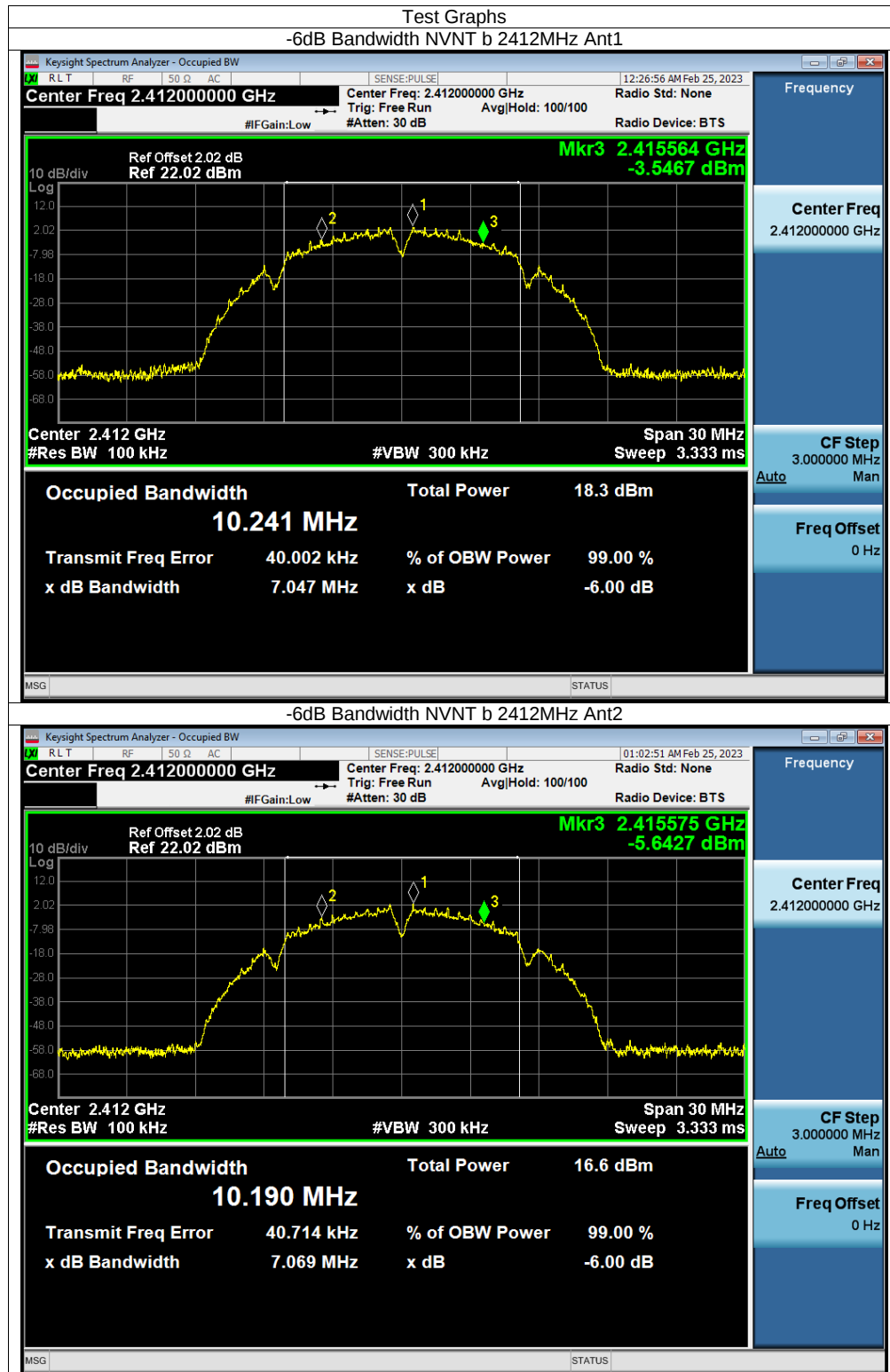
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	9.23	30	Pass
NVNT	b	2412	Ant2	10.42	30	Pass
NVNT	b	2437	Ant1	9.66	30	Pass
NVNT	b	2437	Ant2	10.64	30	Pass
NVNT	b	2462	Ant1	9.51	30	Pass
NVNT	b	2462	Ant2	10.79	30	Pass
NVNT	g	2412	Ant1	8.43	30	Pass
NVNT	g	2412	Ant2	9.27	30	Pass
NVNT	g	2437	Ant1	8.86	30	Pass
NVNT	g	2437	Ant2	9.74	30	Pass
NVNT	g	2462	Ant1	8.65	30	Pass
NVNT	g	2462	Ant2	9.72	30	Pass
NVNT	n20	2412	Ant1	8.47	30	Pass
NVNT	n20	2412	Ant2	9.21	30	Pass
NVNT	n20	2412	Sum	11.87	30	Pass
NVNT	n20	2437	Ant1	8.75	30	Pass
NVNT	n20	2437	Ant2	9.67	30	Pass
NVNT	n20	2437	Sum	12.24	30	Pass
NVNT	n20	2462	Ant1	8.46	30	Pass
NVNT	n20	2462	Ant2	9.54	30	Pass
NVNT	n20	2462	Sum	12.04	30	Pass
NVNT	n40	2422	Ant1	7.84	30	Pass
NVNT	n40	2422	Ant2	8.63	30	Pass
NVNT	n40	2422	Sum	11.26	30	Pass
NVNT	n40	2437	Ant1	7.98	30	Pass
NVNT	n40	2437	Ant2	8.89	30	Pass
NVNT	n40	2437	Sum	11.47	30	Pass
NVNT	n40	2452	Ant1	8	30	Pass
NVNT	n40	2452	Ant2	8.89	30	Pass
NVNT	n40	2452	Sum	11.48	30	Pass
NVNT	ax20	2412	Ant1	8.67	30	Pass
NVNT	ax20	2412	Ant2	9.73	30	Pass
NVNT	ax20	2412	Sum	12.24	30	Pass
NVNT	ax20	2437	Ant1	9.15	30	Pass
NVNT	ax20	2437	Ant2	10.22	30	Pass
NVNT	ax20	2437	Sum	12.73	30	Pass
NVNT	ax20	2462	Ant1	8.94	30	Pass
NVNT	ax20	2462	Ant2	9.95	30	Pass
NVNT	ax20	2462	Sum	12.48	30	Pass
NVNT	ax40	2437	Ant1	8.34	30	Pass
NVNT	ax40	2437	Ant2	9.25	30	Pass
NVNT	ax40	2437	Sum	11.83	30	Pass
NVNT	ax40	2452	Ant1	8.26	30	Pass
NVNT	ax40	2452	Ant2	9.35	30	Pass
NVNT	ax40	2452	Sum	12.26	30	Pass
NVNT	ax40	2422	Ant2	9	30	Pass
NVNT	ax40	2422	Ant1	8.37	30	Pass
NVNT	ax40	2422	Sum	11.71	30	Pass

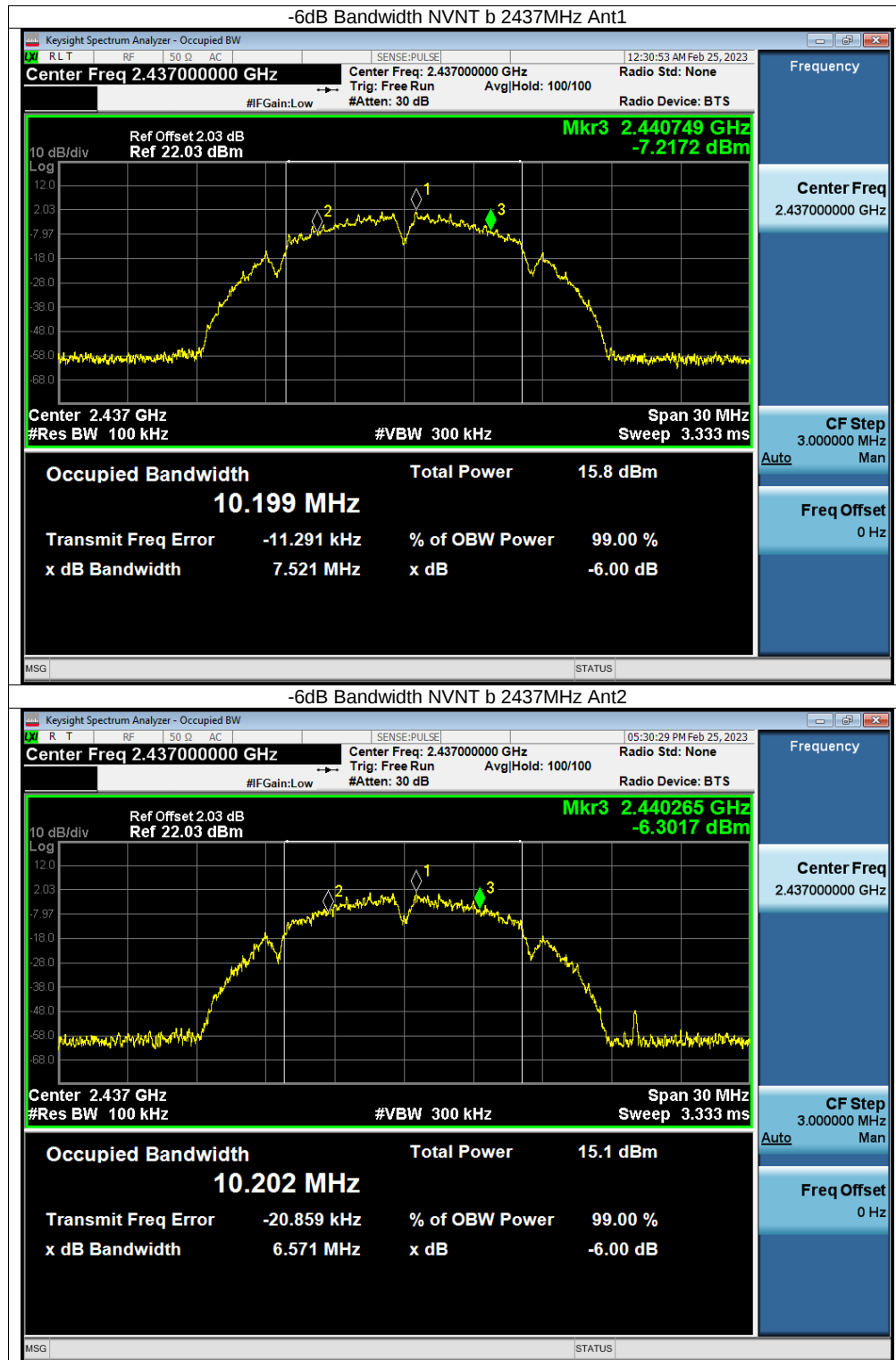
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Antenna Gain (dBi)	E.i.r.p. (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	9.23	4	13.23	36.02	Pass
NVNT	b	2412	Ant2	10.42	4	14.42	36.02	Pass
NVNT	b	2437	Ant1	9.66	4	13.66	36.02	Pass
NVNT	b	2437	Ant2	10.64	4	14.64	36.02	Pass
NVNT	b	2462	Ant1	9.51	4	13.51	36.02	Pass
NVNT	b	2462	Ant2	10.79	4	14.79	36.02	Pass
NVNT	g	2412	Ant1	8.43	4	12.43	36.02	Pass
NVNT	g	2412	Ant2	9.27	4	13.27	36.02	Pass
NVNT	g	2437	Ant1	8.86	4	12.86	36.02	Pass
NVNT	g	2437	Ant2	9.74	4	13.74	36.02	Pass
NVNT	g	2462	Ant1	8.65	4	12.65	36.02	Pass
NVNT	g	2462	Ant2	9.72	4	13.72	36.02	Pass
NVNT	n20	2412	Ant1	8.47	4	12.47	36.02	Pass
NVNT	n20	2412	Ant2	9.21	4	13.21	36.02	Pass
NVNT	n20	2412	Sum	11.87	-	15.87	36.02	Pass
NVNT	n20	2437	Ant1	8.75	4	12.75	36.02	Pass
NVNT	n20	2437	Ant2	9.67	4	13.67	36.02	Pass

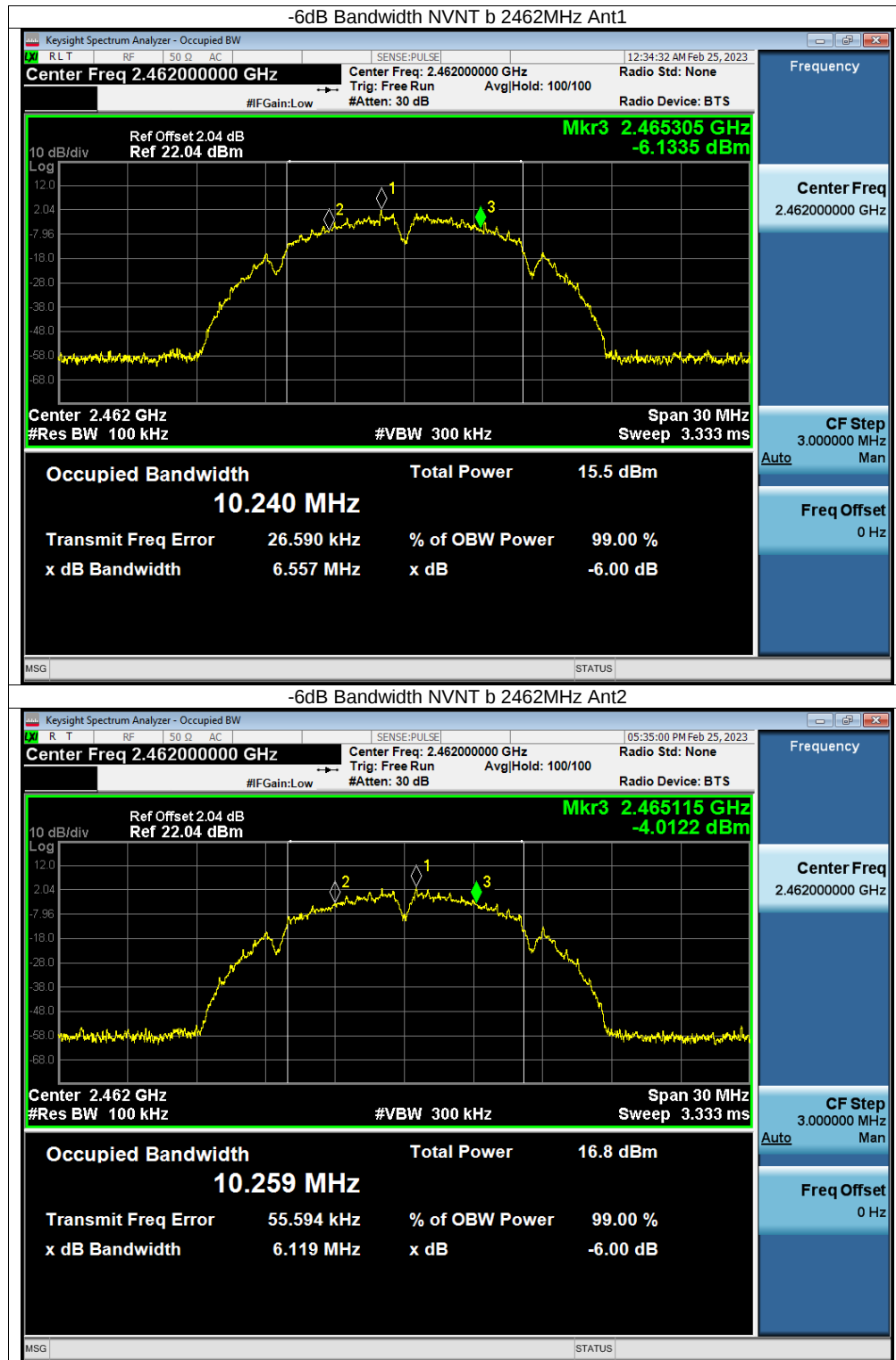
NVNT	n20	2437	Sum	12.24	-	16.24	36.02	Pass
NVNT	n20	2462	Ant1	8.46	4	12.46	36.02	Pass
NVNT	n20	2462	Ant2	9.54	4	13.54	36.02	Pass
NVNT	n20	2462	Sum	12.04	-	16.04	36.02	Pass
NVNT	n40	2422	Ant1	7.84	4	11.84	36.02	Pass
NVNT	n40	2422	Ant2	8.63	4	12.63	36.02	Pass
NVNT	n40	2422	Sum	11.26	-	15.26	36.02	Pass
NVNT	n40	2437	Ant1	7.98	4	11.98	36.02	Pass
NVNT	n40	2437	Ant2	8.89	4	12.89	36.02	Pass
NVNT	n40	2437	Sum	11.47	-	15.47	36.02	Pass
NVNT	n40	2452	Ant1	8	4	12	36.02	Pass
NVNT	n40	2452	Ant2	8.89	4	12.89	36.02	Pass
NVNT	n40	2452	Sum	11.48	-	15.48	36.02	Pass
NVNT	ax20	2412	Ant1	8.67	4	12.67	36.02	Pass
NVNT	ax20	2412	Ant2	9.73	4	13.73	36.02	Pass
NVNT	ax20	2412	Sum	12.24	-	16.24	36.02	Pass
NVNT	ax20	2437	Ant1	9.15	4	13.15	36.02	Pass
NVNT	ax20	2437	Ant2	10.22	4	14.22	36.02	Pass
NVNT	ax20	2437	Sum	12.73	-	16.73	36.02	Pass
NVNT	ax20	2462	Ant1	8.94	4	12.94	36.02	Pass
NVNT	ax20	2462	Ant2	9.95	4	13.95	36.02	Pass
NVNT	ax20	2462	Sum	12.48	-	16.48	36.02	Pass
NVNT	ax40	2437	Ant1	8.34	4	12.34	36.02	Pass
NVNT	ax40	2437	Ant2	9.25	4	13.25	36.02	Pass
NVNT	ax40	2437	Sum	11.83	-	15.83	36.02	Pass
NVNT	ax40	2452	Ant1	8.26	4	12.26	36.02	Pass
NVNT	ax40	2452	Ant2	9.35	4	13.35	36.02	Pass
NVNT	ax40	2452	Sum	12.26	-	16.26	36.02	Pass
NVNT	ax40	2422	Ant2	9	4	13	36.02	Pass
NVNT	ax40	2422	Ant1	8.37	4	12.37	36.02	Pass
NVNT	ax40	2422	Sum	11.71	-	15.71	36.02	Pass

-6dB Bandwidth

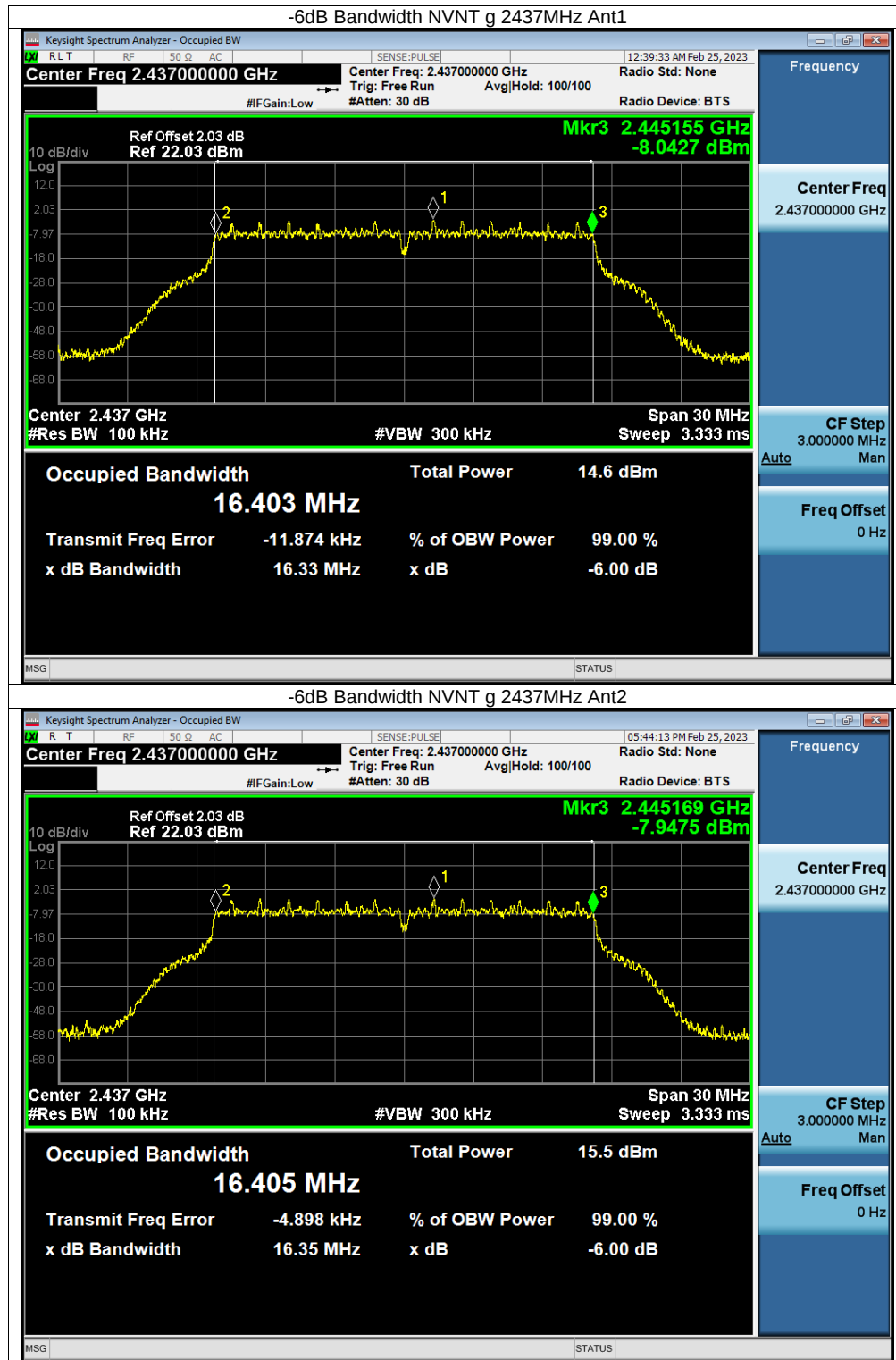
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.047	0.5	Pass
NVNT	b	2412	Ant2	7.069	0.5	Pass
NVNT	b	2437	Ant1	7.521	0.5	Pass
NVNT	b	2437	Ant2	6.571	0.5	Pass
NVNT	b	2462	Ant1	6.557	0.5	Pass
NVNT	b	2462	Ant2	6.119	0.5	Pass
NVNT	g	2412	Ant1	16.33	0.5	Pass
NVNT	g	2412	Ant2	16.311	0.5	Pass
NVNT	g	2437	Ant1	16.334	0.5	Pass
NVNT	g	2437	Ant2	16.347	0.5	Pass
NVNT	g	2462	Ant1	16.33	0.5	Pass
NVNT	g	2462	Ant2	16.333	0.5	Pass
NVNT	n20	2412	Ant1	17.554	0.5	Pass
NVNT	n20	2412	Ant2	16.94	0.5	Pass
NVNT	n20	2437	Ant1	17.535	0.5	Pass
NVNT	n20	2437	Ant2	17.56	0.5	Pass
NVNT	n20	2462	Ant1	17.298	0.5	Pass
NVNT	n20	2462	Ant2	17.176	0.5	Pass
NVNT	n40	2422	Ant1	35.898	0.5	Pass
NVNT	n40	2422	Ant2	35.734	0.5	Pass
NVNT	n40	2437	Ant1	35.664	0.5	Pass
NVNT	n40	2437	Ant2	35.405	0.5	Pass
NVNT	n40	2452	Ant1	36.325	0.5	Pass
NVNT	n40	2452	Ant2	35.862	0.5	Pass
NVNT	ax20	2412	Ant1	18.808	0.5	Pass
NVNT	ax20	2412	Ant2	18.963	0.5	Pass
NVNT	ax20	2437	Ant1	18.915	0.5	Pass
NVNT	ax20	2437	Ant2	18.976	0.5	Pass
NVNT	ax20	2462	Ant1	18.776	0.5	Pass
NVNT	ax20	2462	Ant2	18.494	0.5	Pass
NVNT	ax40	2437	Ant1	37.43	0.5	Pass
NVNT	ax40	2437	Ant2	37.64	0.5	Pass
NVNT	ax40	2452	Ant1	37.705	0.5	Pass
NVNT	ax40	2452	Ant2	37.653	0.5	Pass
NVNT	ax40	2422	Ant2	36.981	0.5	Pass
NVNT	ax40	2422	Ant1	36.581	0.5	Pass



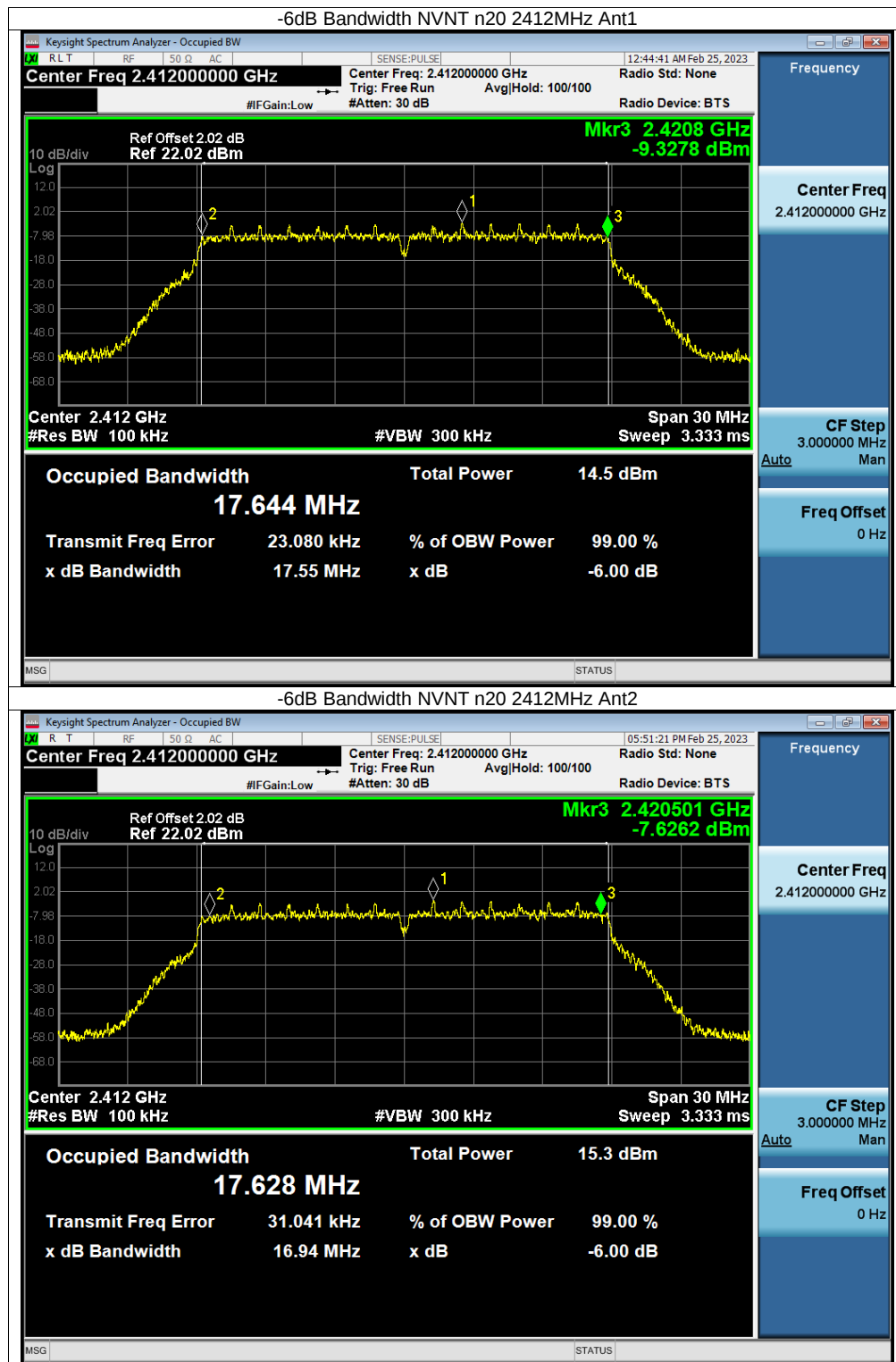


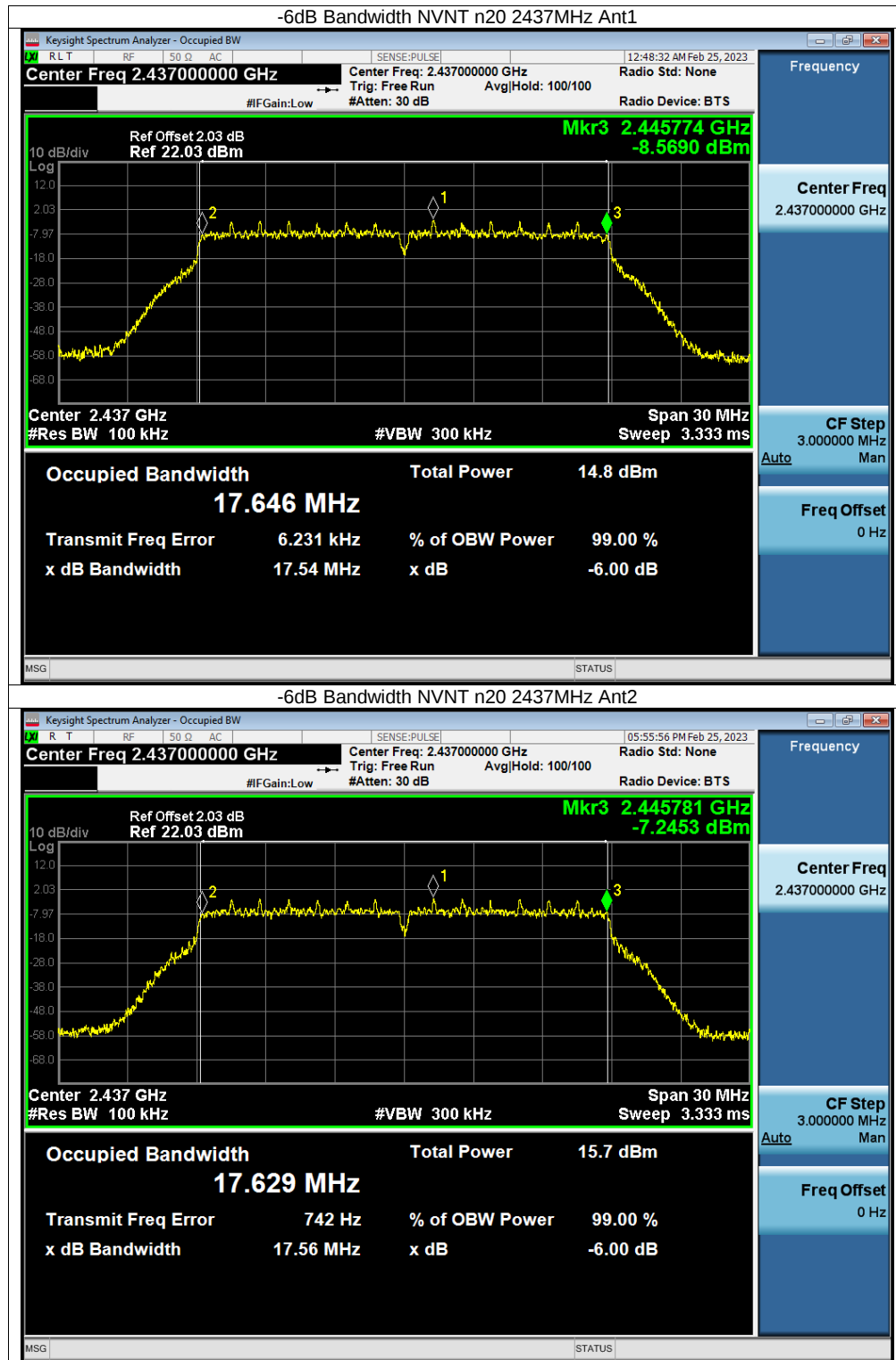


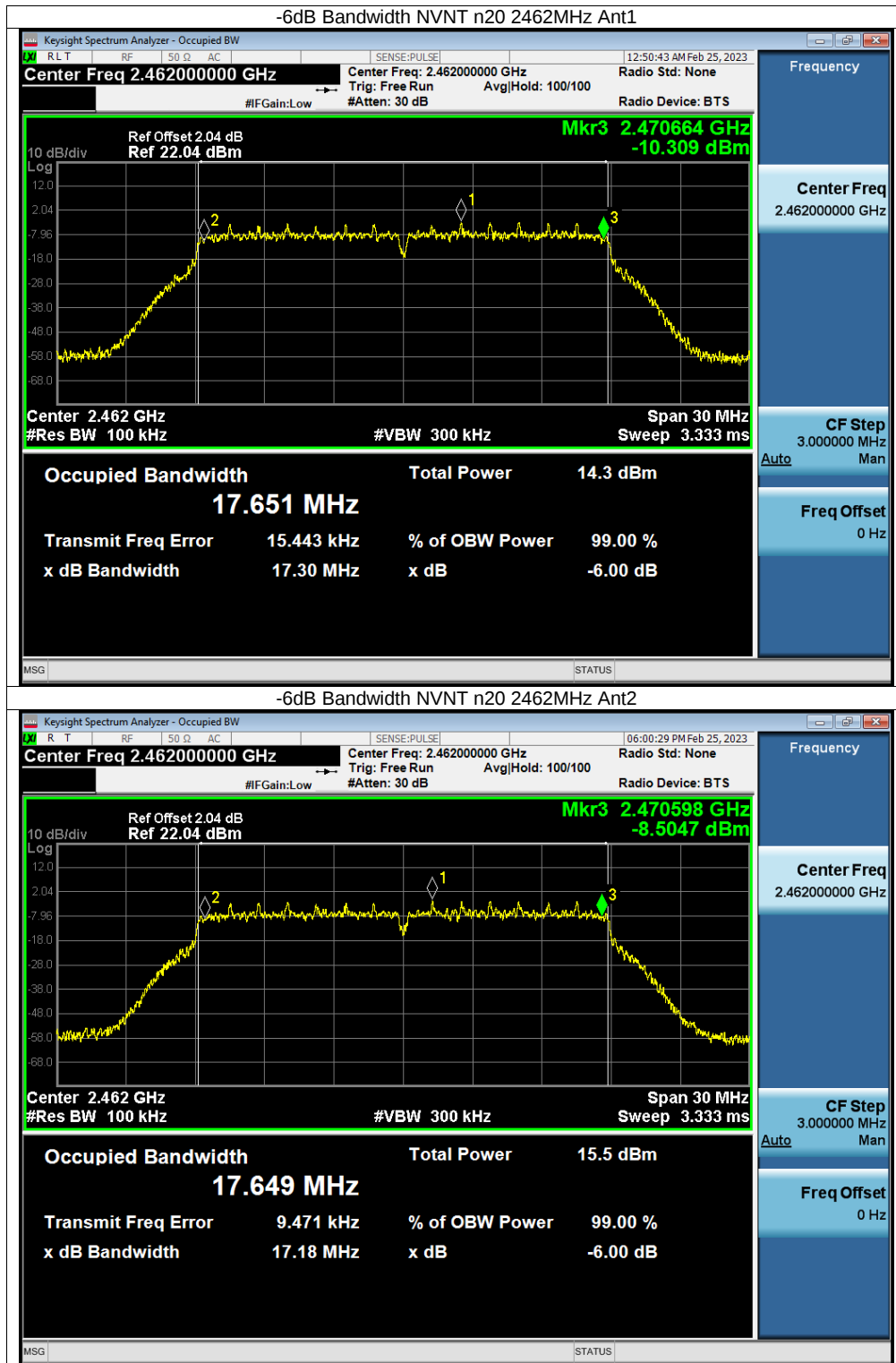


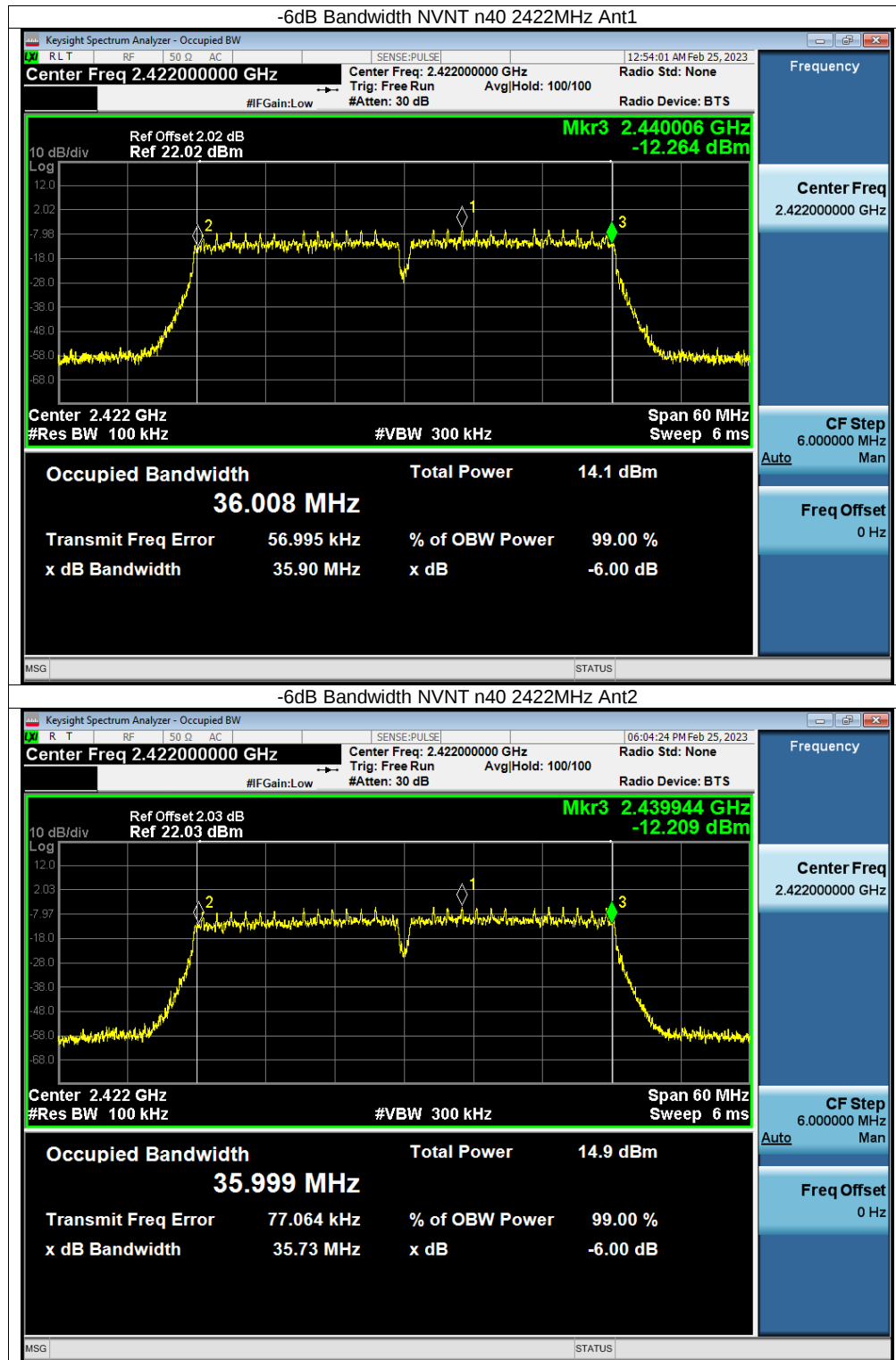


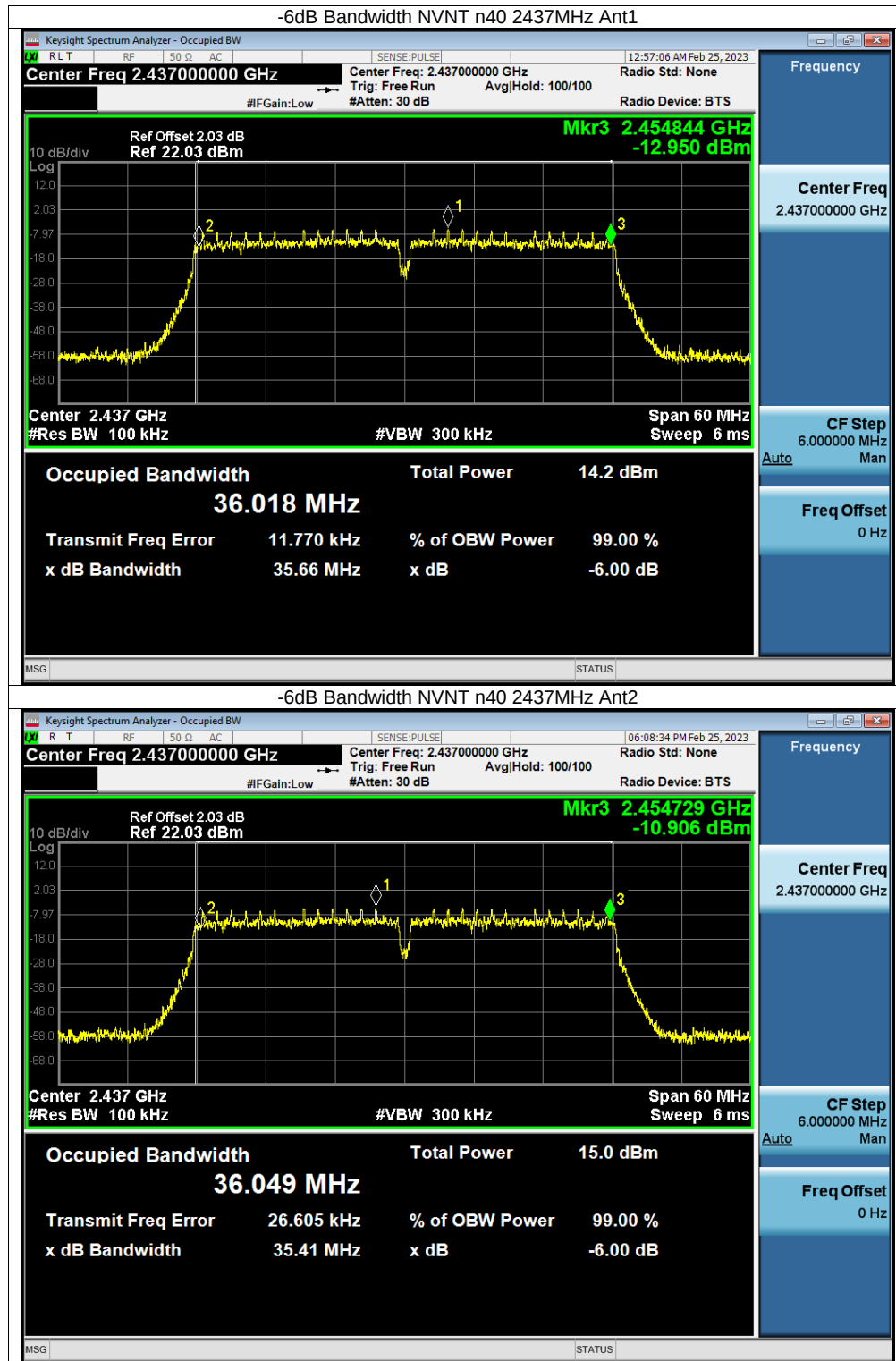


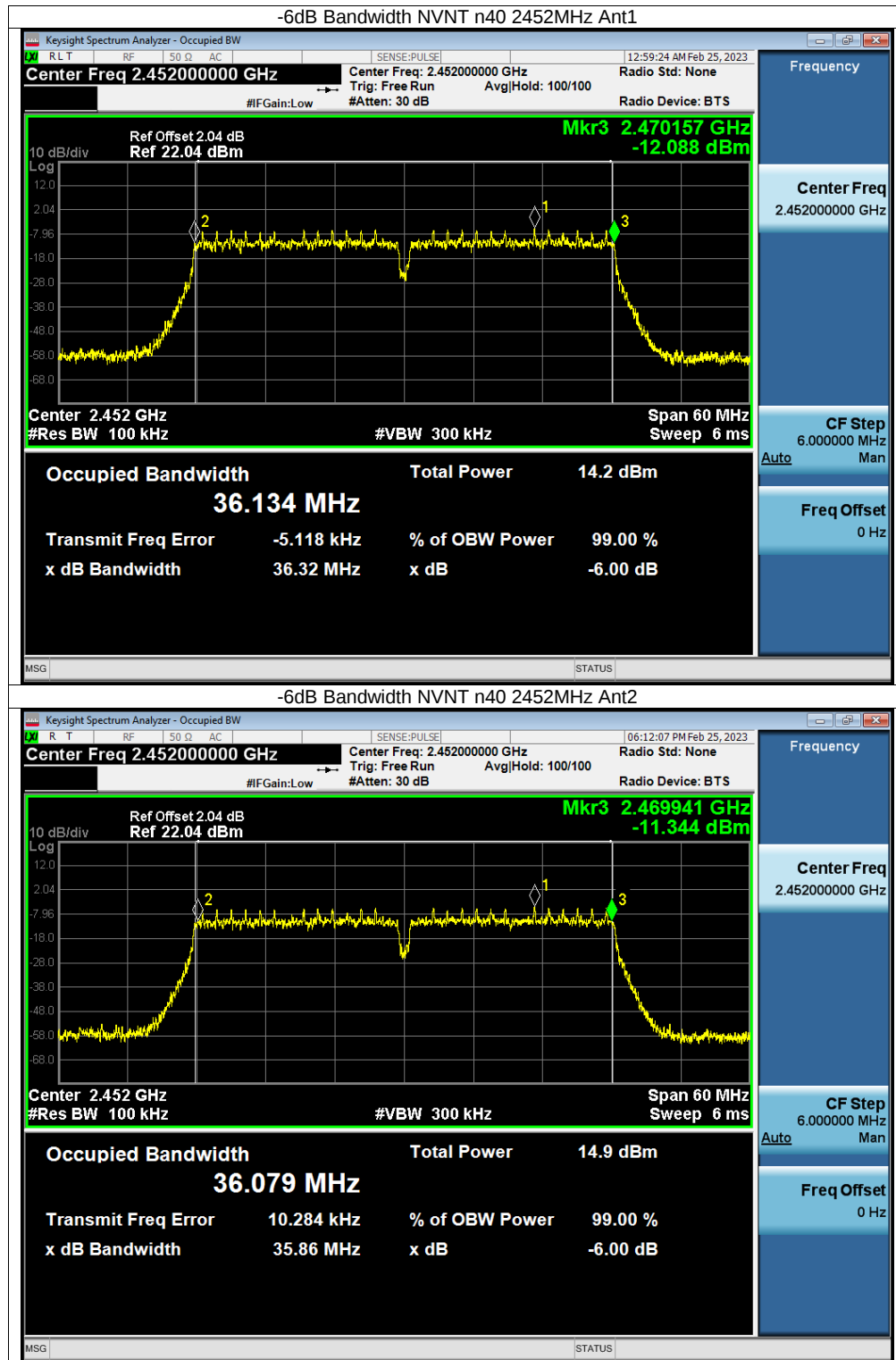


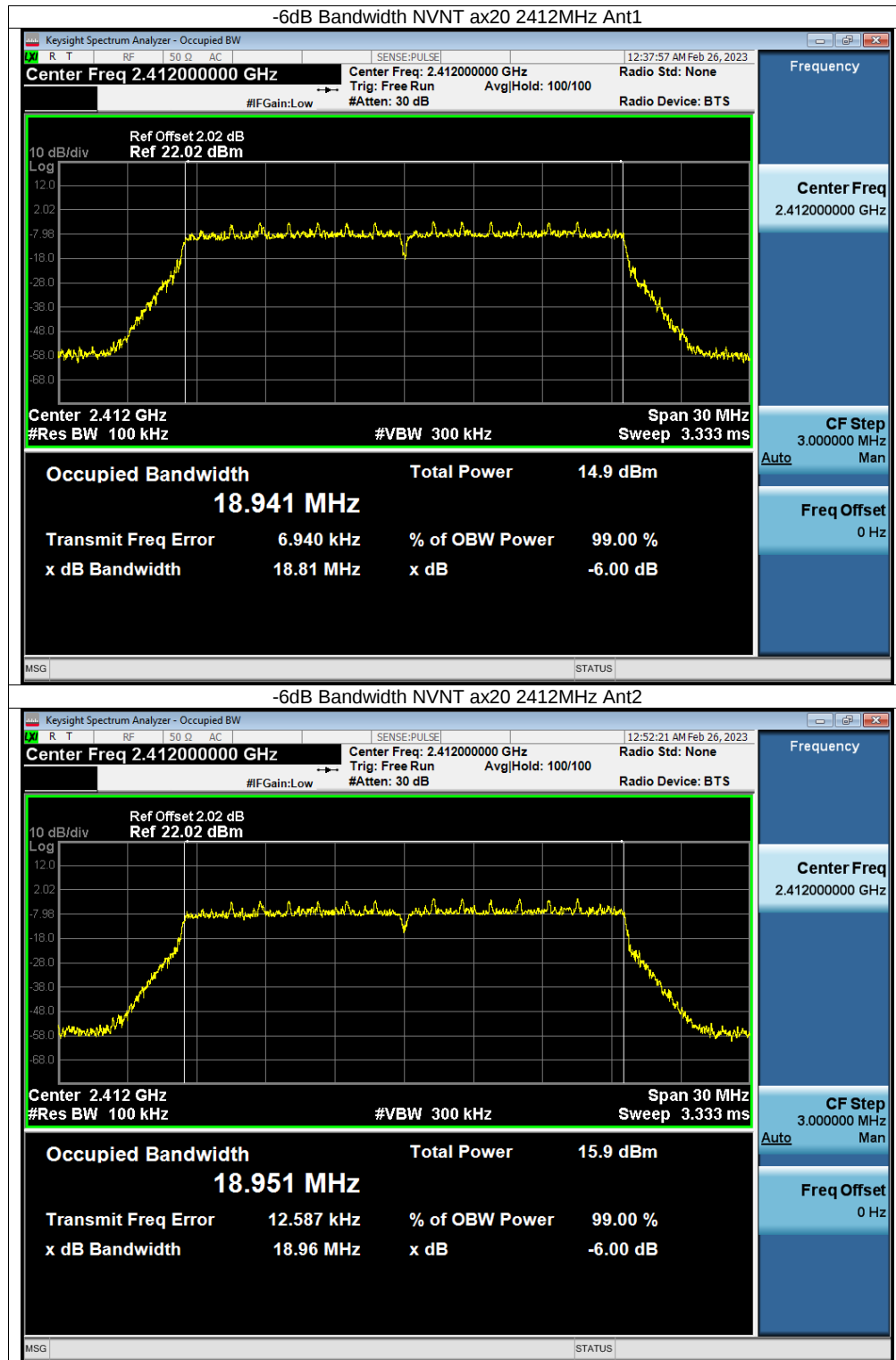


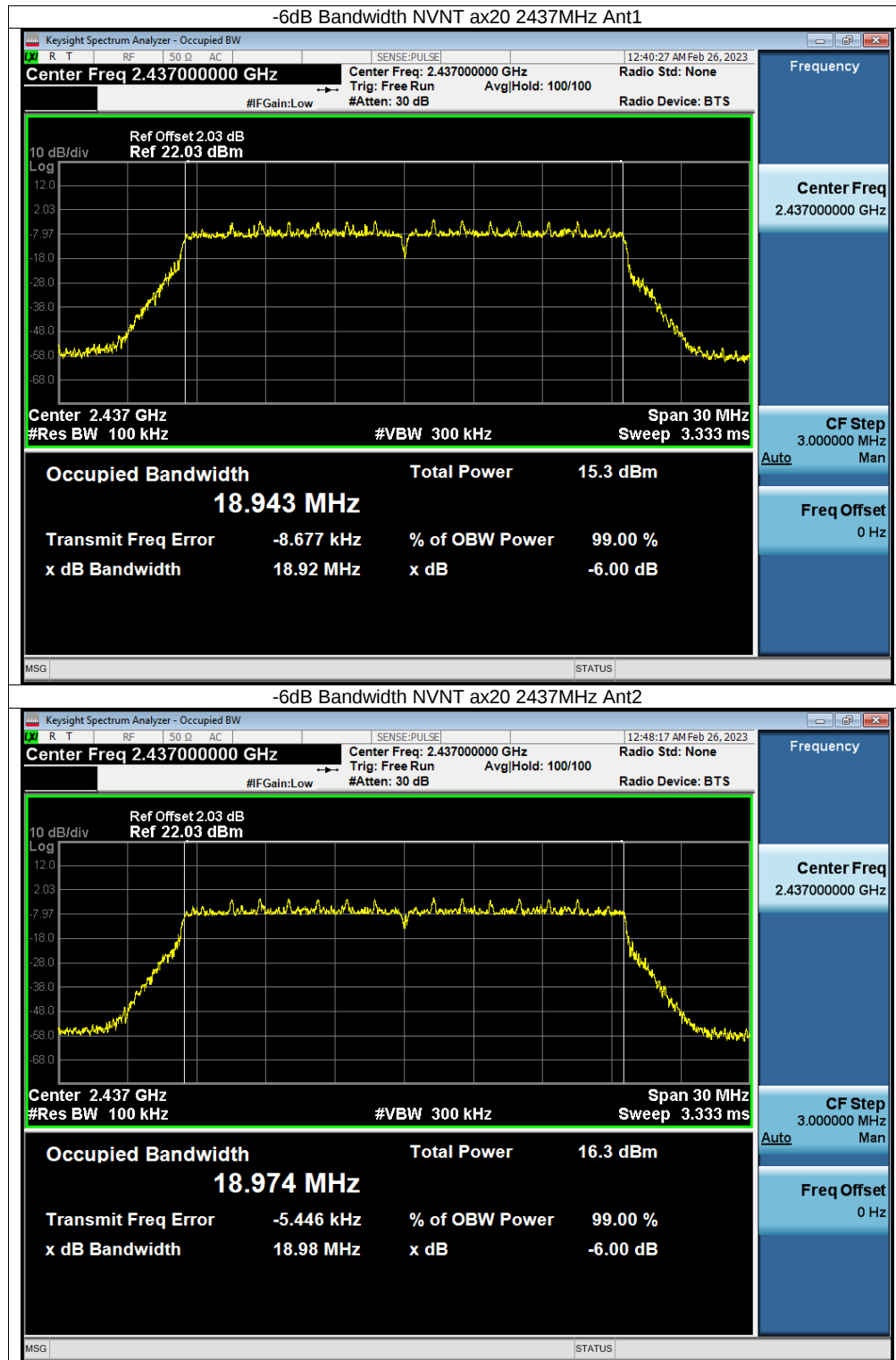


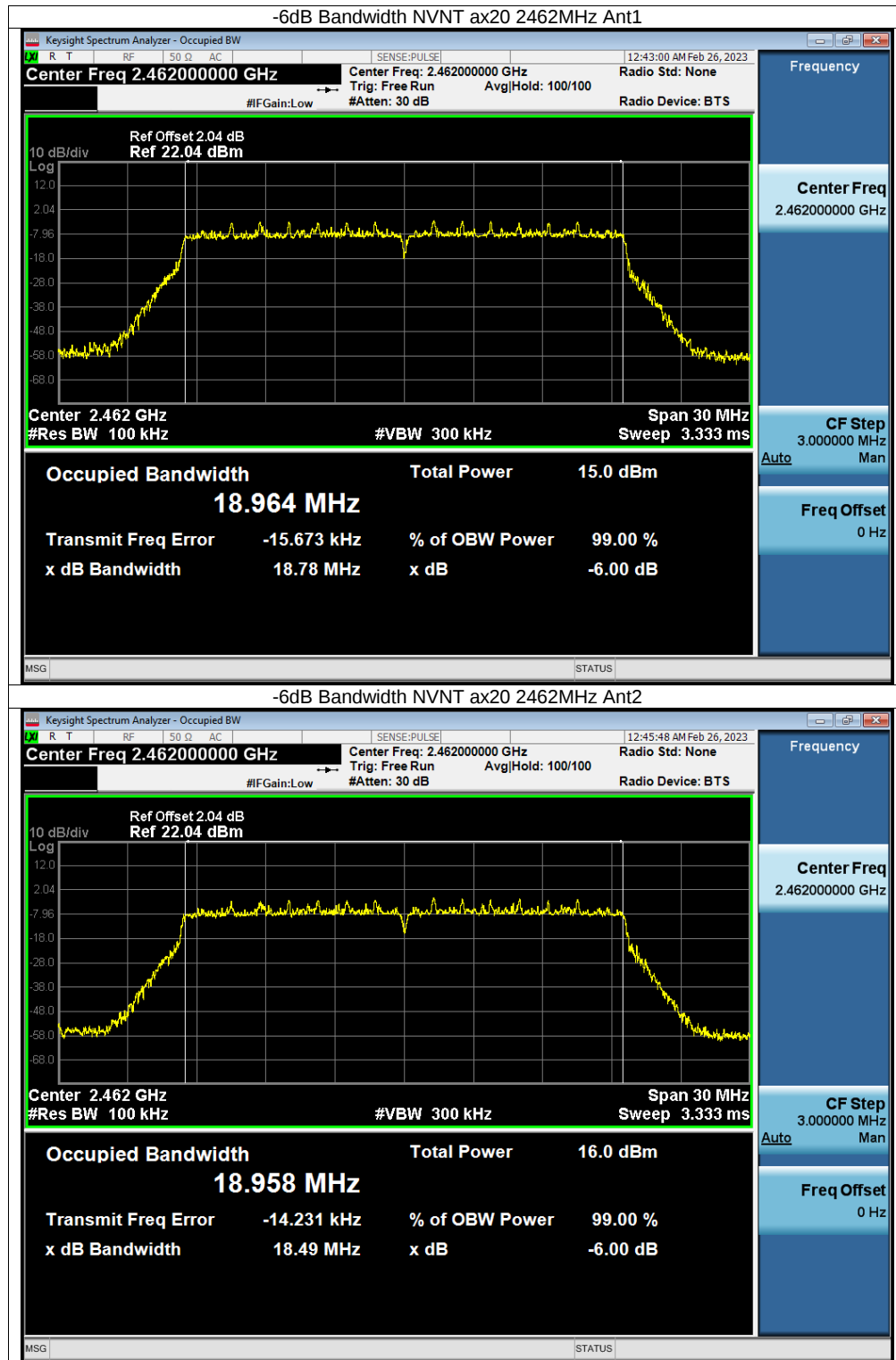


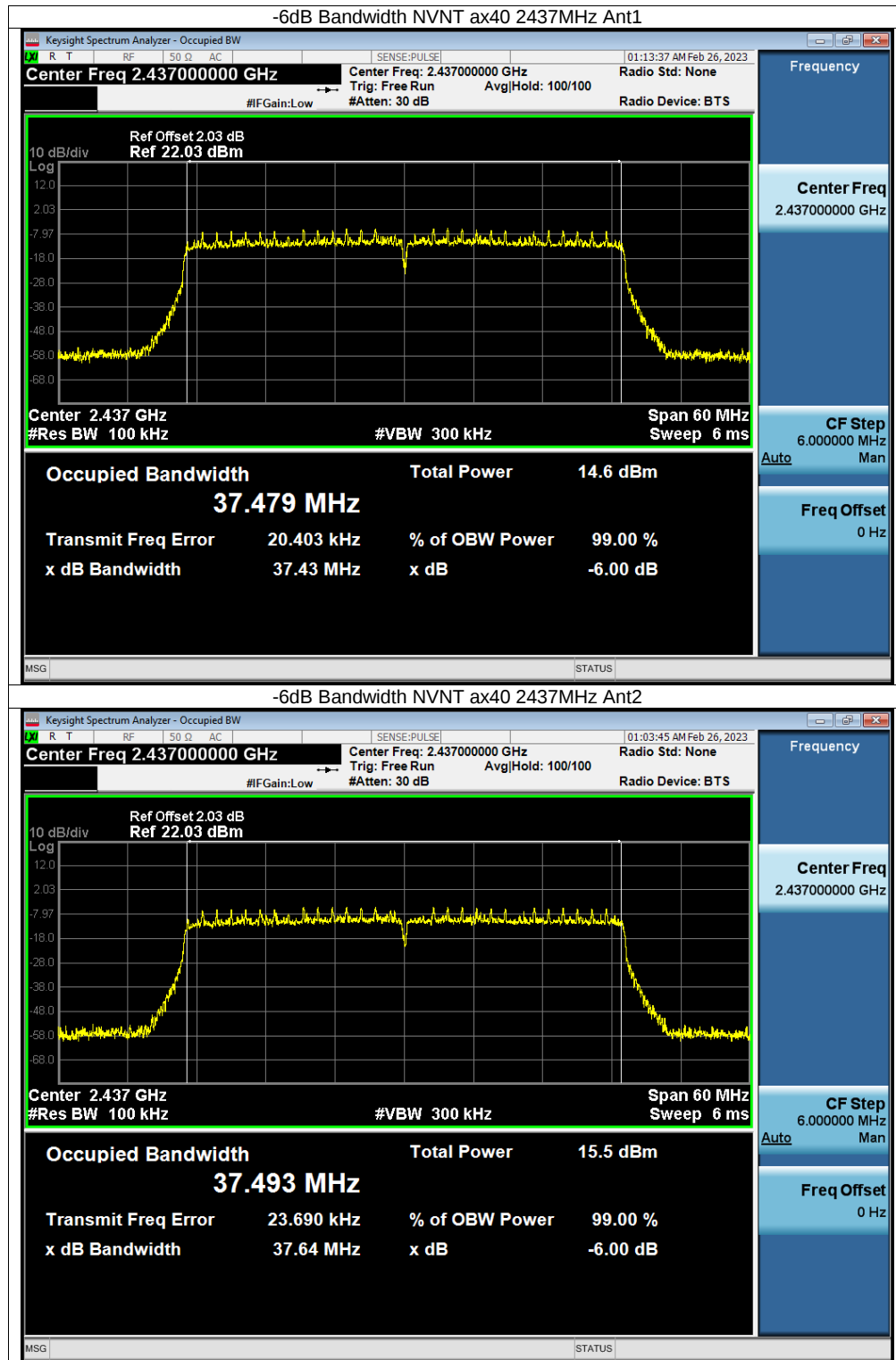




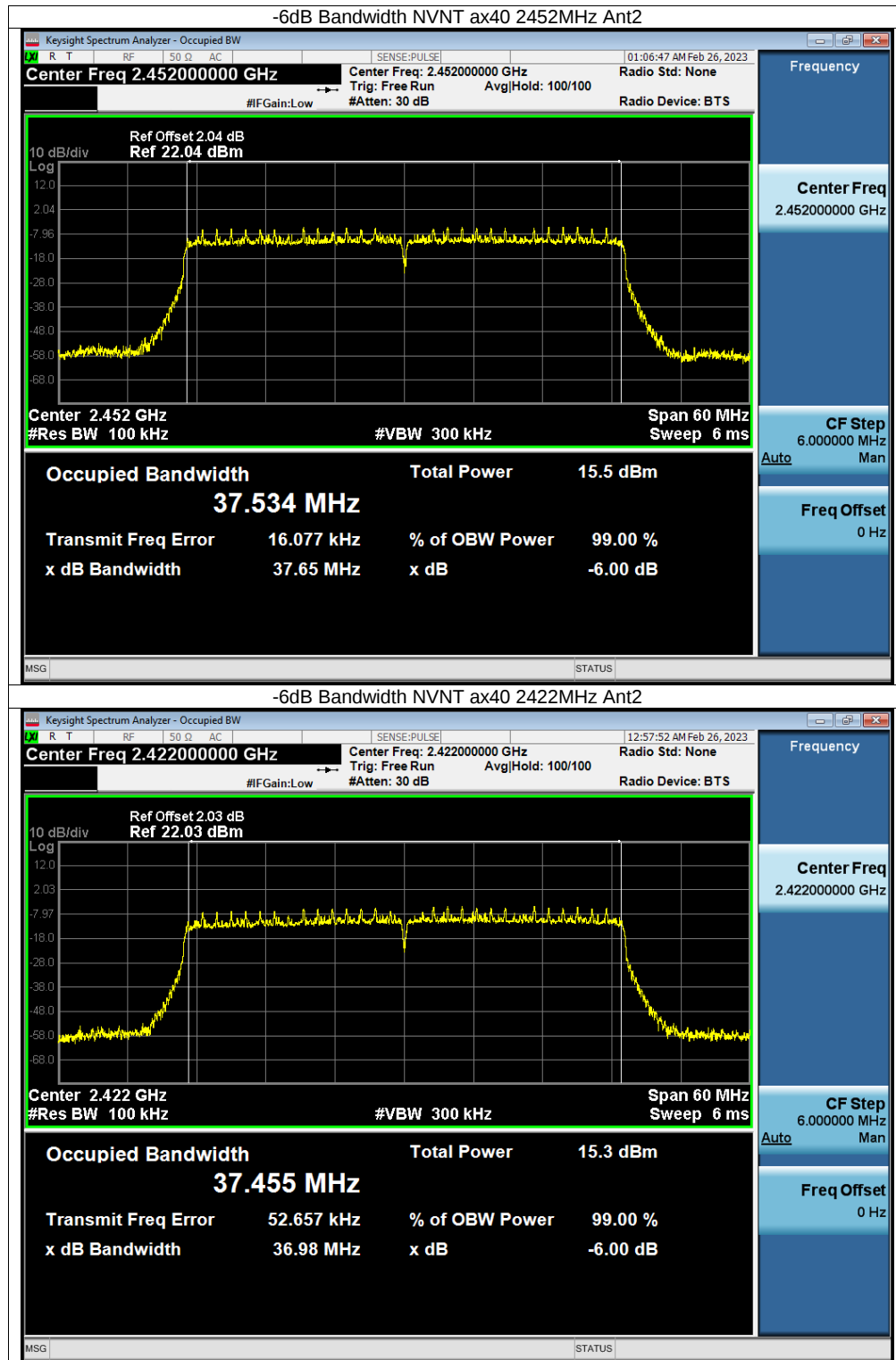


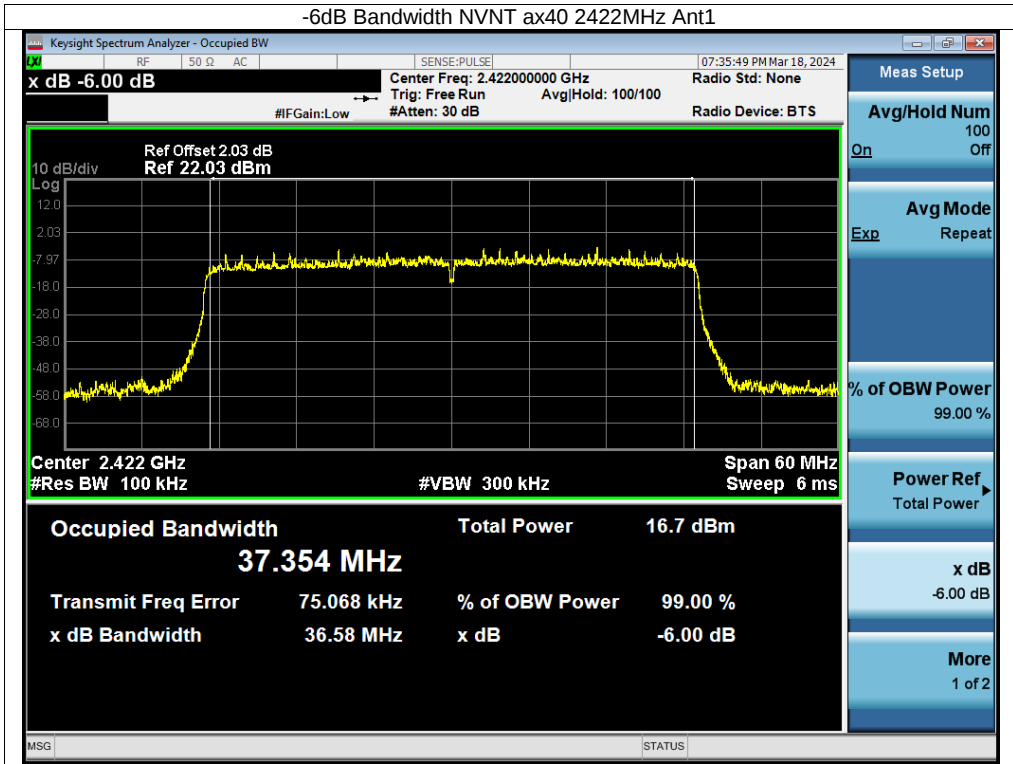






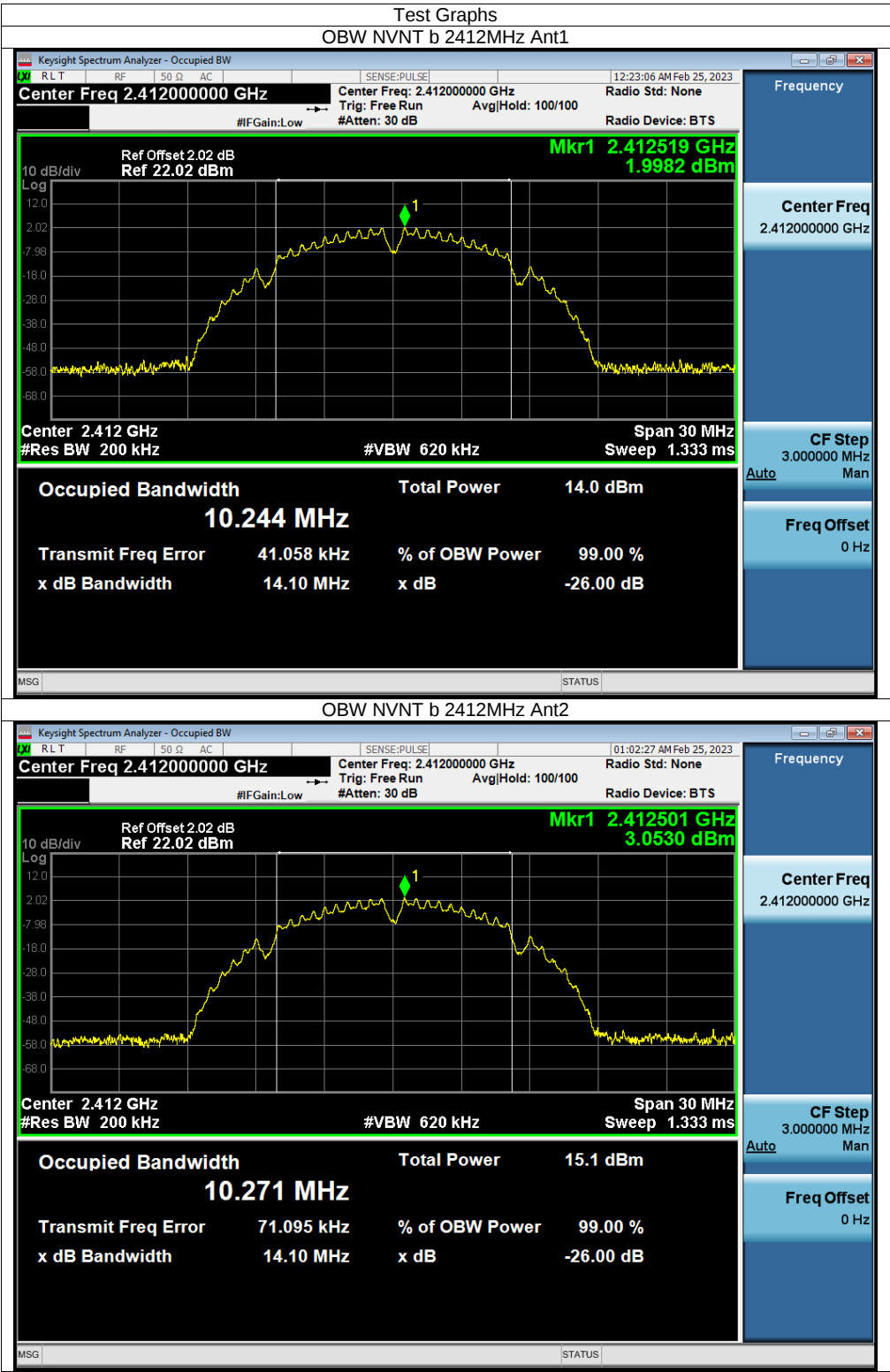


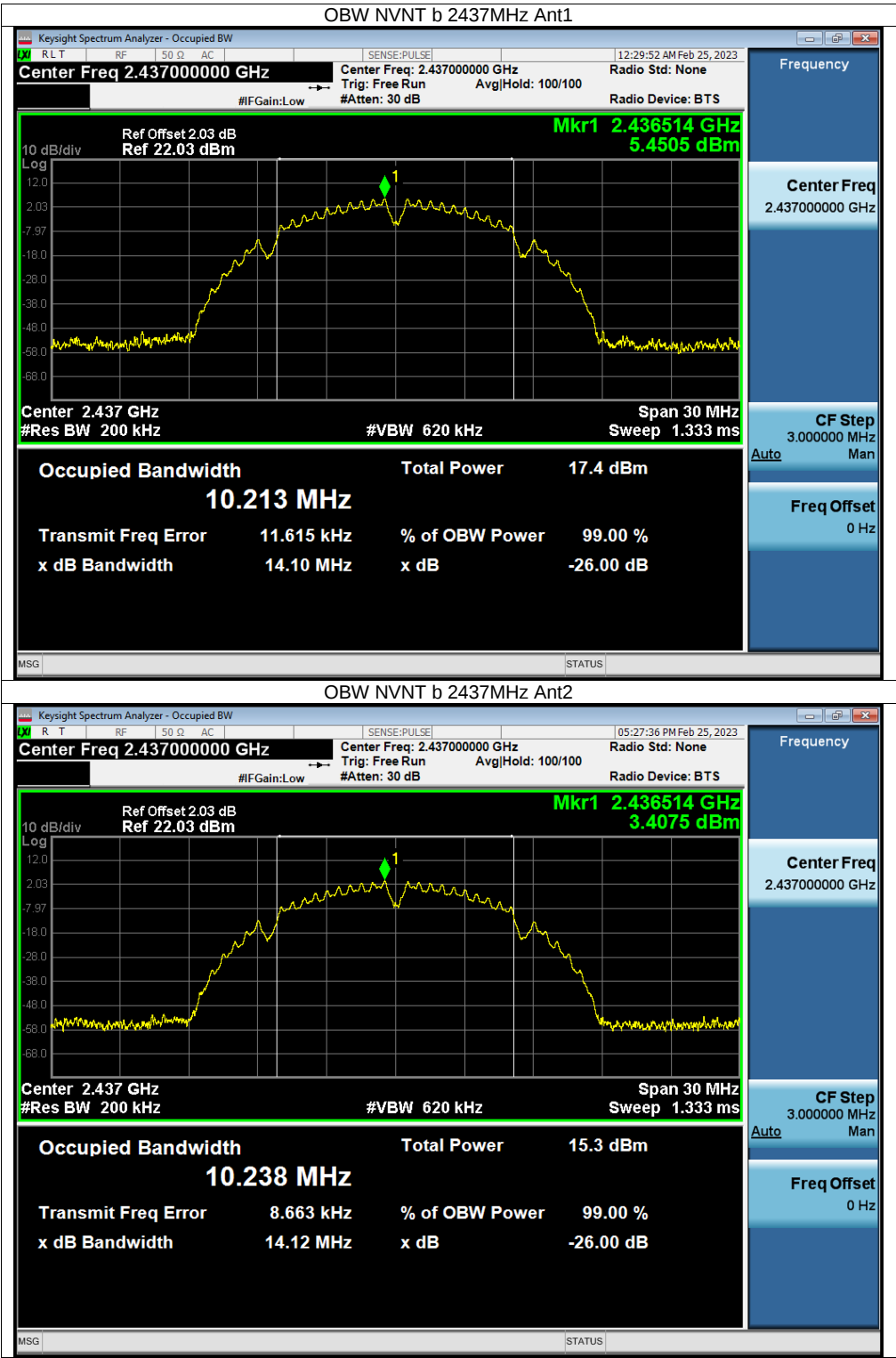




Occupied Channel Bandwidth

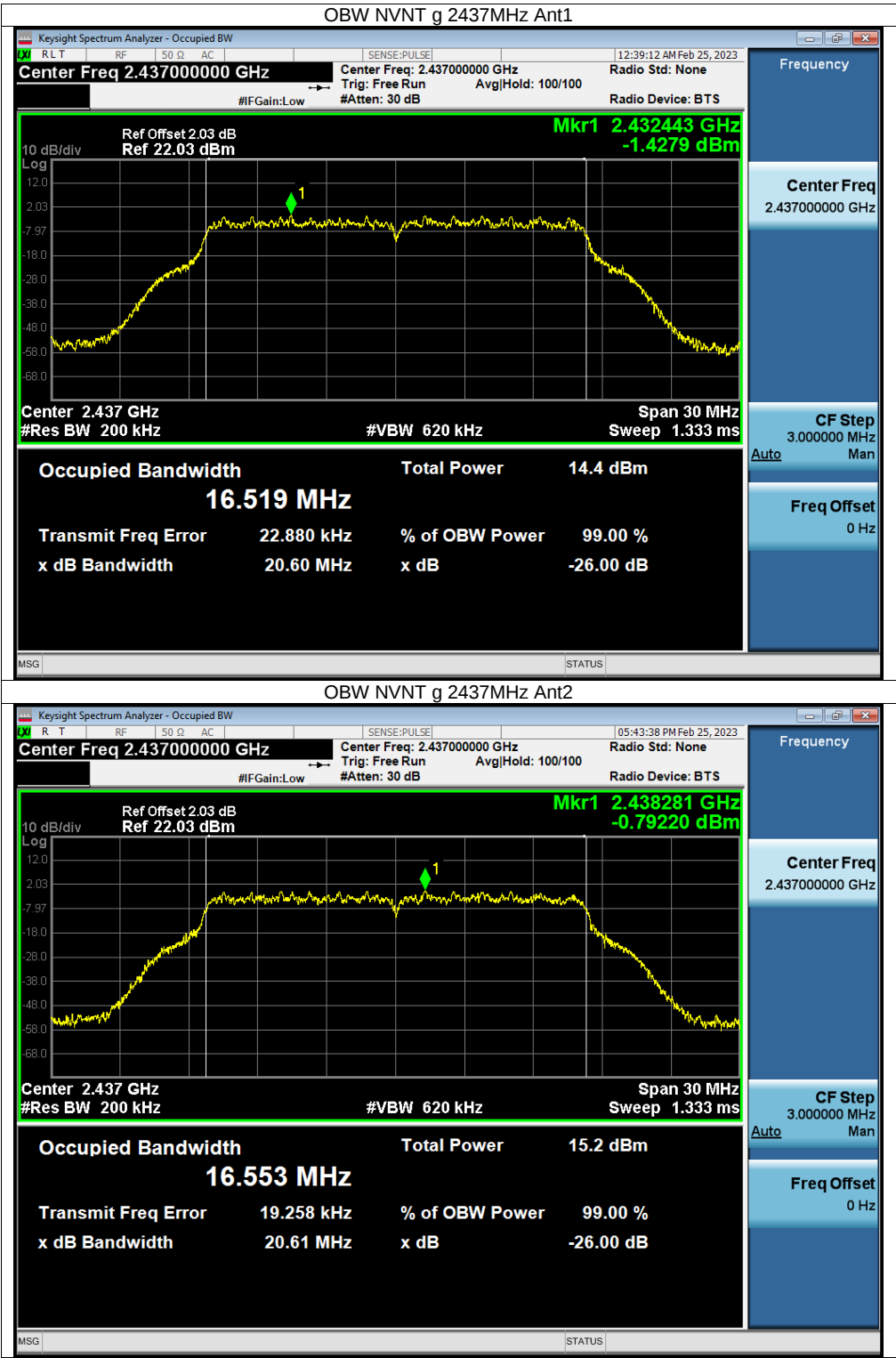
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	10.244
NVNT	b	2412	Ant2	10.271
NVNT	b	2437	Ant1	10.213
NVNT	b	2437	Ant2	10.238
NVNT	b	2462	Ant1	10.227
NVNT	b	2462	Ant2	10.205
NVNT	g	2412	Ant1	16.503
NVNT	g	2412	Ant2	16.529
NVNT	g	2437	Ant1	16.519
NVNT	g	2437	Ant2	16.553
NVNT	g	2462	Ant1	16.526
NVNT	g	2462	Ant2	16.525
NVNT	n20	2412	Ant1	17.746
NVNT	n20	2412	Ant2	17.732
NVNT	n20	2437	Ant1	17.717
NVNT	n20	2437	Ant2	17.75
NVNT	n20	2462	Ant1	17.748
NVNT	n20	2462	Ant2	17.713
NVNT	n40	2422	Ant1	36.117
NVNT	n40	2422	Ant2	36.095
NVNT	n40	2437	Ant1	36.162
NVNT	n40	2437	Ant2	36.148
NVNT	n40	2452	Ant1	36.211
NVNT	n40	2452	Ant2	36.2
NVNT	ax20	2412	Ant1	18.986
NVNT	ax20	2412	Ant2	18.999
NVNT	ax20	2437	Ant1	19.001
NVNT	ax20	2437	Ant2	19.028
NVNT	ax20	2462	Ant1	19.049
NVNT	ax20	2462	Ant2	18.987
NVNT	ax40	2437	Ant1	37.485
NVNT	ax40	2437	Ant2	37.499
NVNT	ax40	2452	Ant1	37.541
NVNT	ax40	2452	Ant2	37.528
NVNT	ax40	2422	Ant1	37.454
NVNT	ax40	2422	Ant2	37.465











MSG

STATUS

Frequency

Center Freq

2.437000000 GHz

CF Step

3.000000 MHz

Auto

Man

Freq Offset

0 Hz

OBW NVNT g 2437MHz Ant2

Keysight Spectrum Analyzer - Occupied BW

RLT

RF

50 Q

AC

SENSE:PULSE

05:43:38 PM Feb 25, 2023

Center Freq 2.437000000 GHz

Center Freq: 2.437000000 GHz

Trig: Free Run

Avg|Hold: 100/100

Radio Std: None

#FGain:Low

#Atten: 30 dB

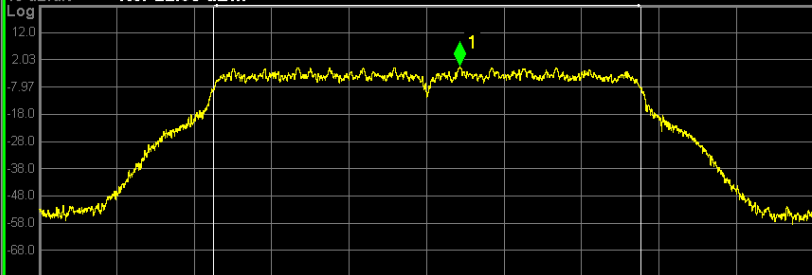
Radio Device: BTS

Ref Offset 2.03 dB

Ref 22.03 dBm

Mkr1 2.438281 GHz

-0.79220 dBm



The plot shows a yellow signal trace on a black grid. The y-axis is labeled 'Log' and ranges from -68.0 to 10 dB/div. The x-axis represents frequency. A green marker '1' is placed on the signal trace.

Center 2.437 GHz

#Res BW 200 kHz

#VBW 620 kHz

Span 30 MHz

Sweep 1.333 ms

Occupied Bandwidth

16.553 MHz

Total Power

15.2 dBm

Transmit Freq Error

19.258 kHz

% of OBW Power

99.00 %

x dB Bandwidth

20.61 MHz

x dB

-26.00 dB

MSG

STATUS

Frequency

Center Freq

2.437000000 GHz

CF Step

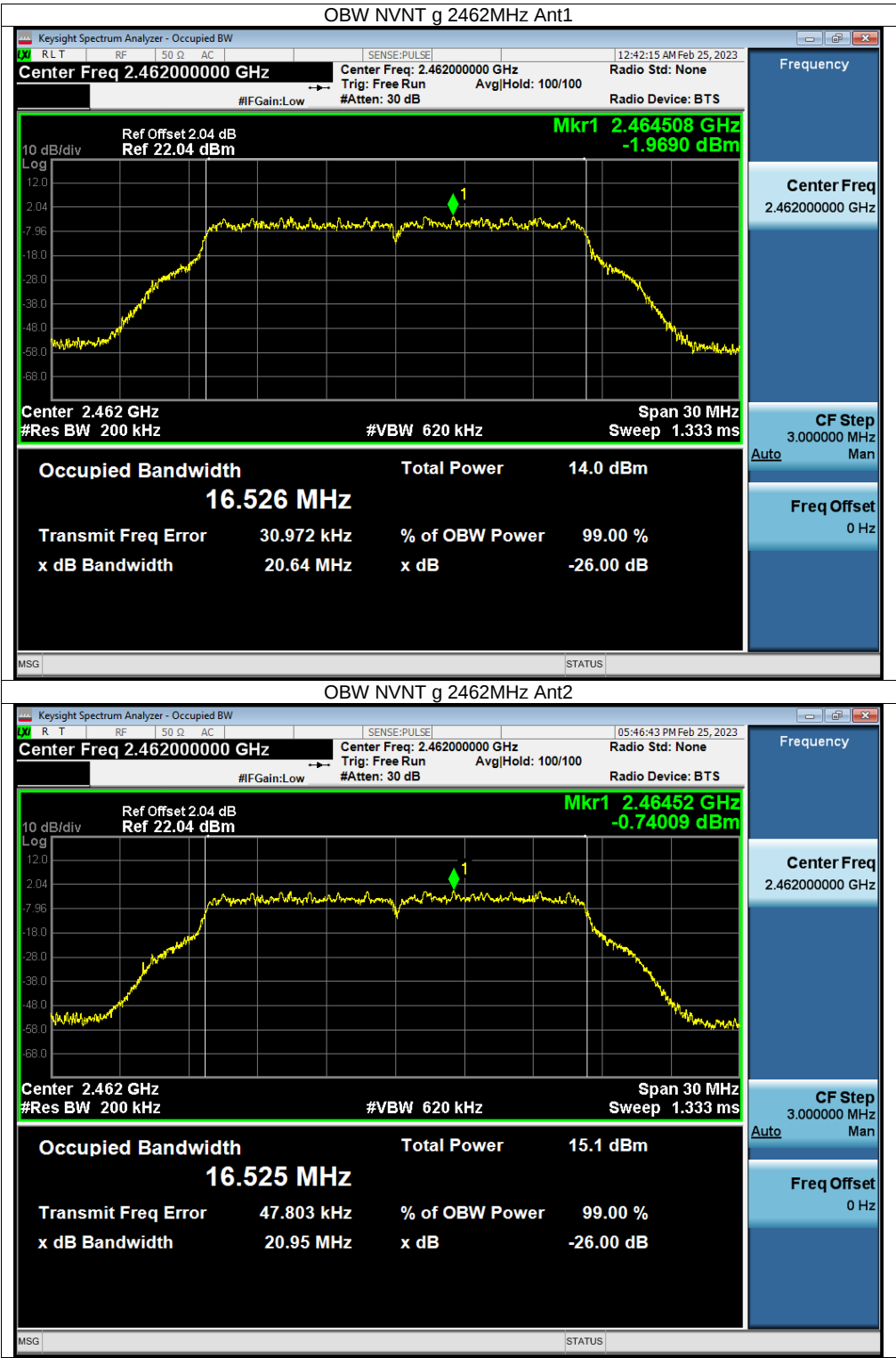
3.000000 MHz

Auto

Man

Freq Offset

0 Hz



OBW NVNT g 2462MHz Ant2

Keysight Spectrum Analyzer - Occupied BW

05:46:43 PM Feb 25, 2023

Center Freq 2.462000000 GHz

Center Freq: 2.462000000 GHz

Trig: Free Run

Avg|Hold: 100/100

Radio Std: None

#FGain:Low

#Atten: 30 dB

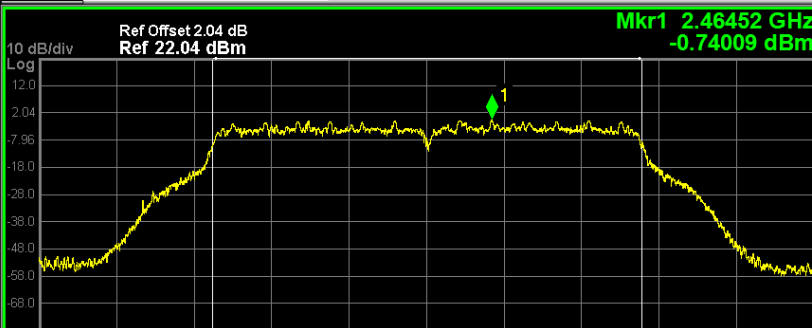
Radio Device: BTS

Ref Offset 2.04 dB

Ref 22.04 dBm

Mkr1 2.46452 GHz

-0.74009 dBm



The plot shows a yellow signal trace on a black grid. The y-axis is labeled 'Log' and ranges from -68.0 to 10 dB/div. The x-axis represents frequency. A green marker '1' is placed on the signal trace.

Center 2.462 GHz

#Res BW 200 kHz

#VBW 620 kHz

Span 30 MHz

Sweep 1.333 ms

Occupied Bandwidth

16.525 MHz

Total Power

15.1 dBm

Transmit Freq Error

47.803 kHz

% of OBW Power

99.00 %

x dB Bandwidth

20.95 MHz

x dB

-26.00 dB

MSG

STATUS

Frequency

Center Freq

2.462000000 GHz

CF Step

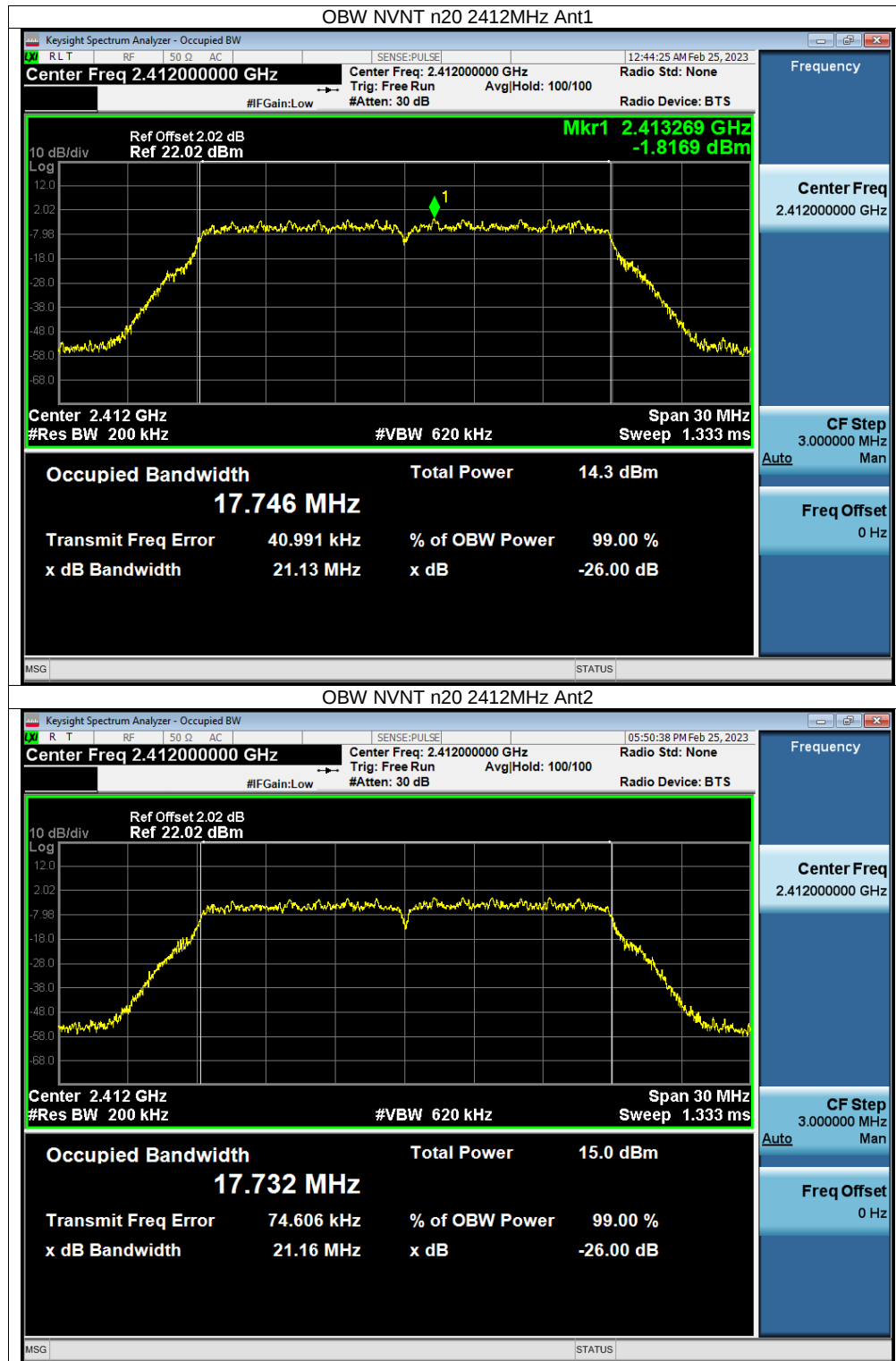
3.000000 MHz

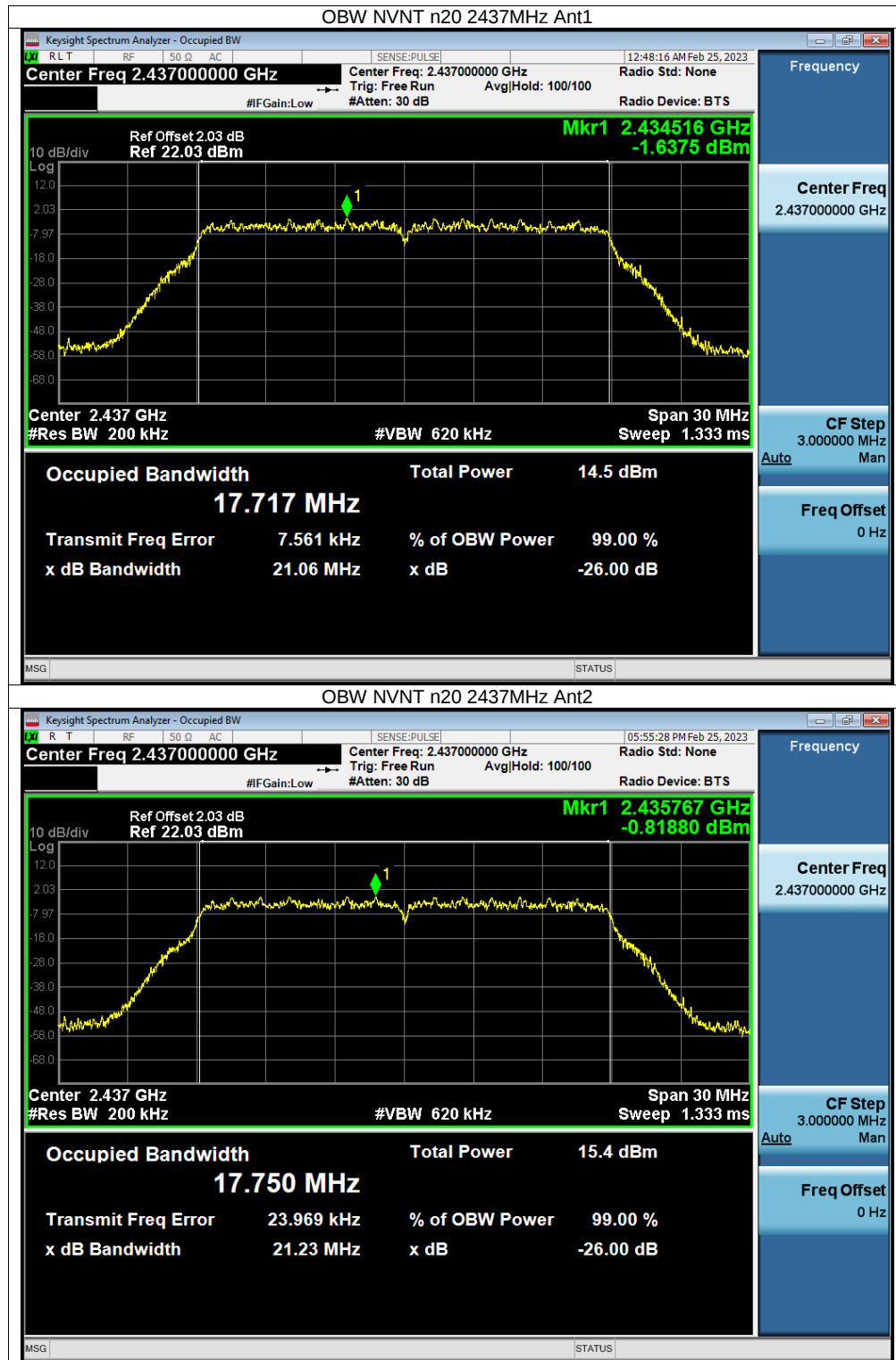
Auto

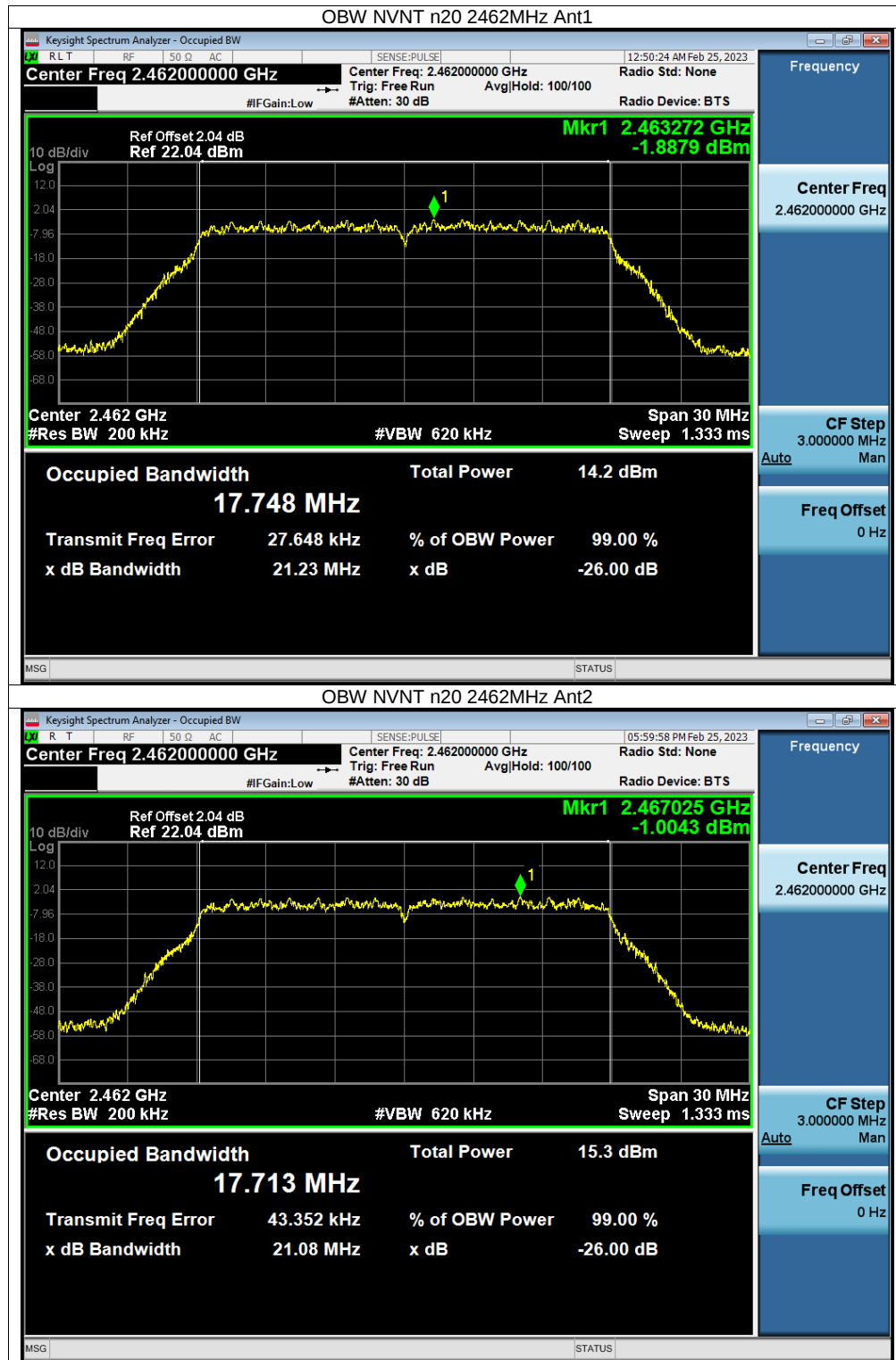
Man

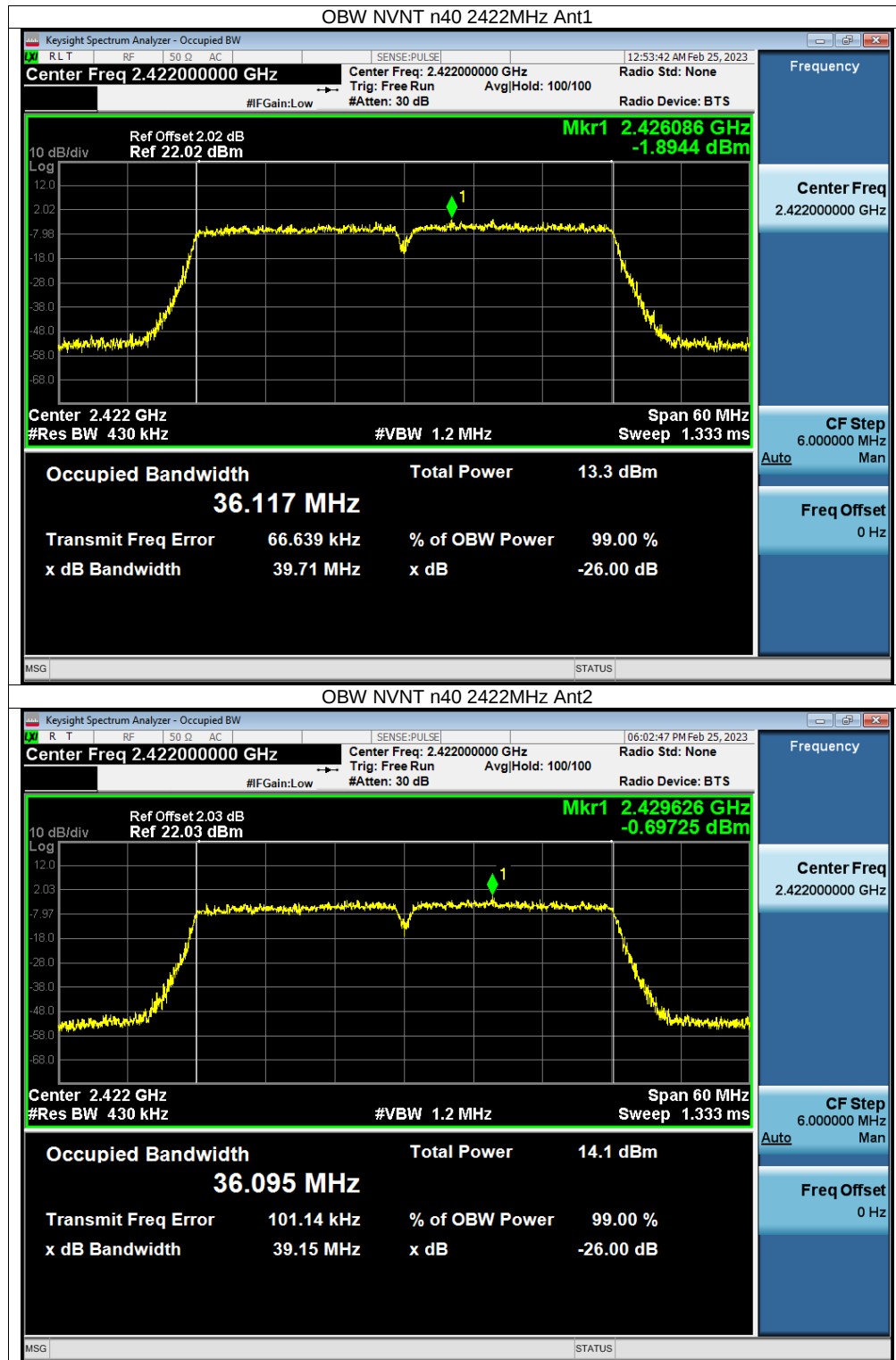
Freq Offset

0 Hz

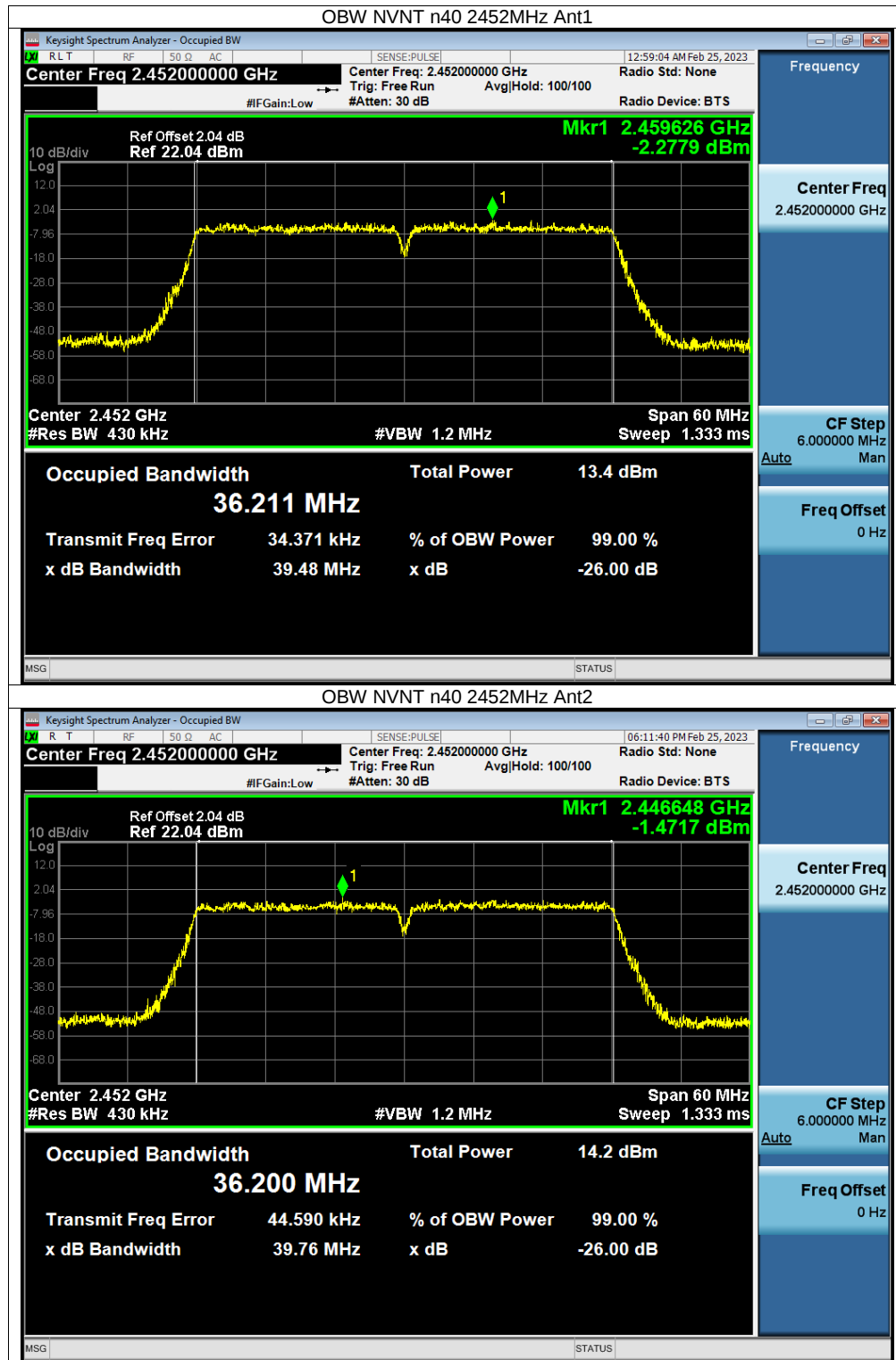


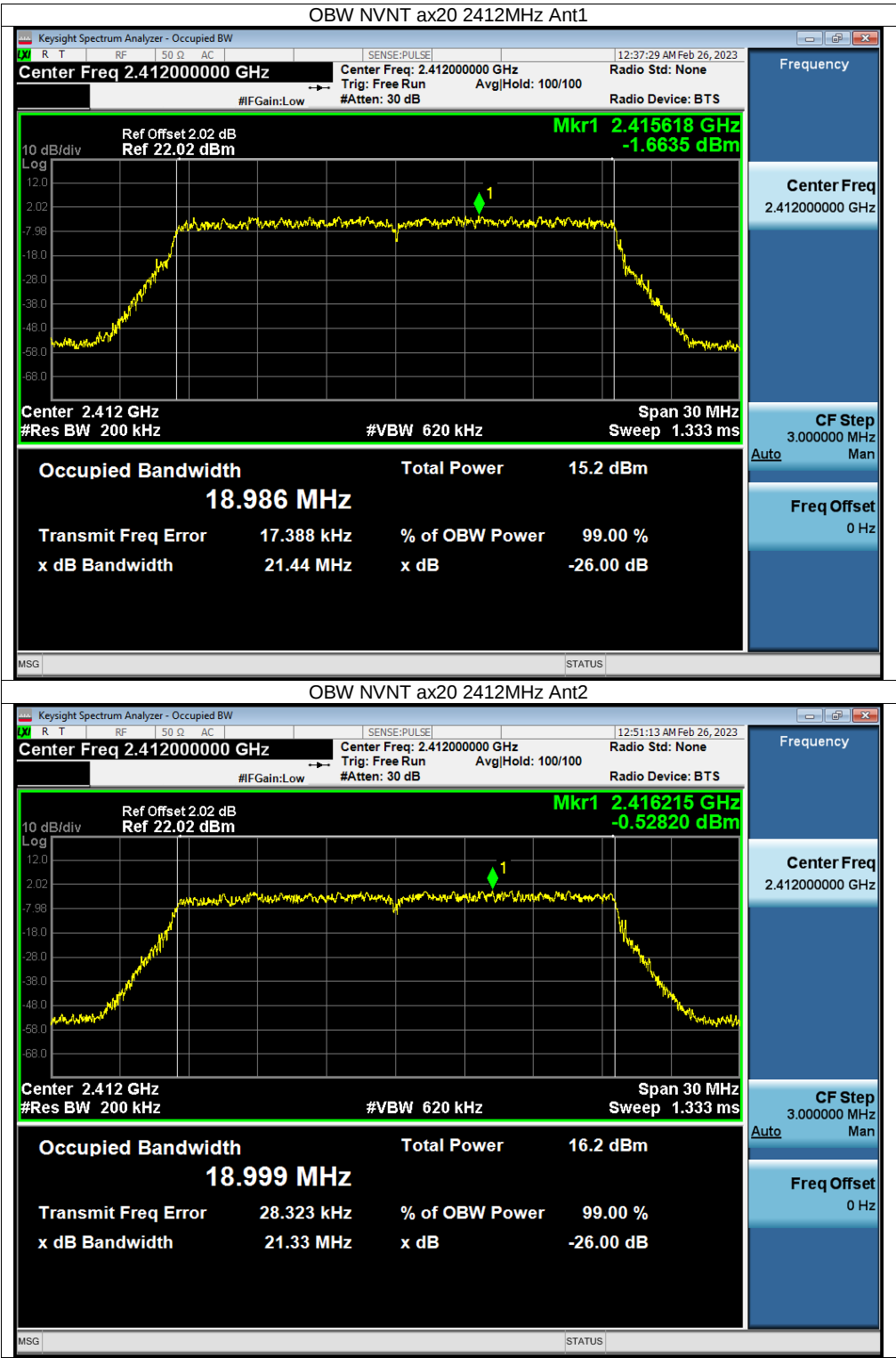


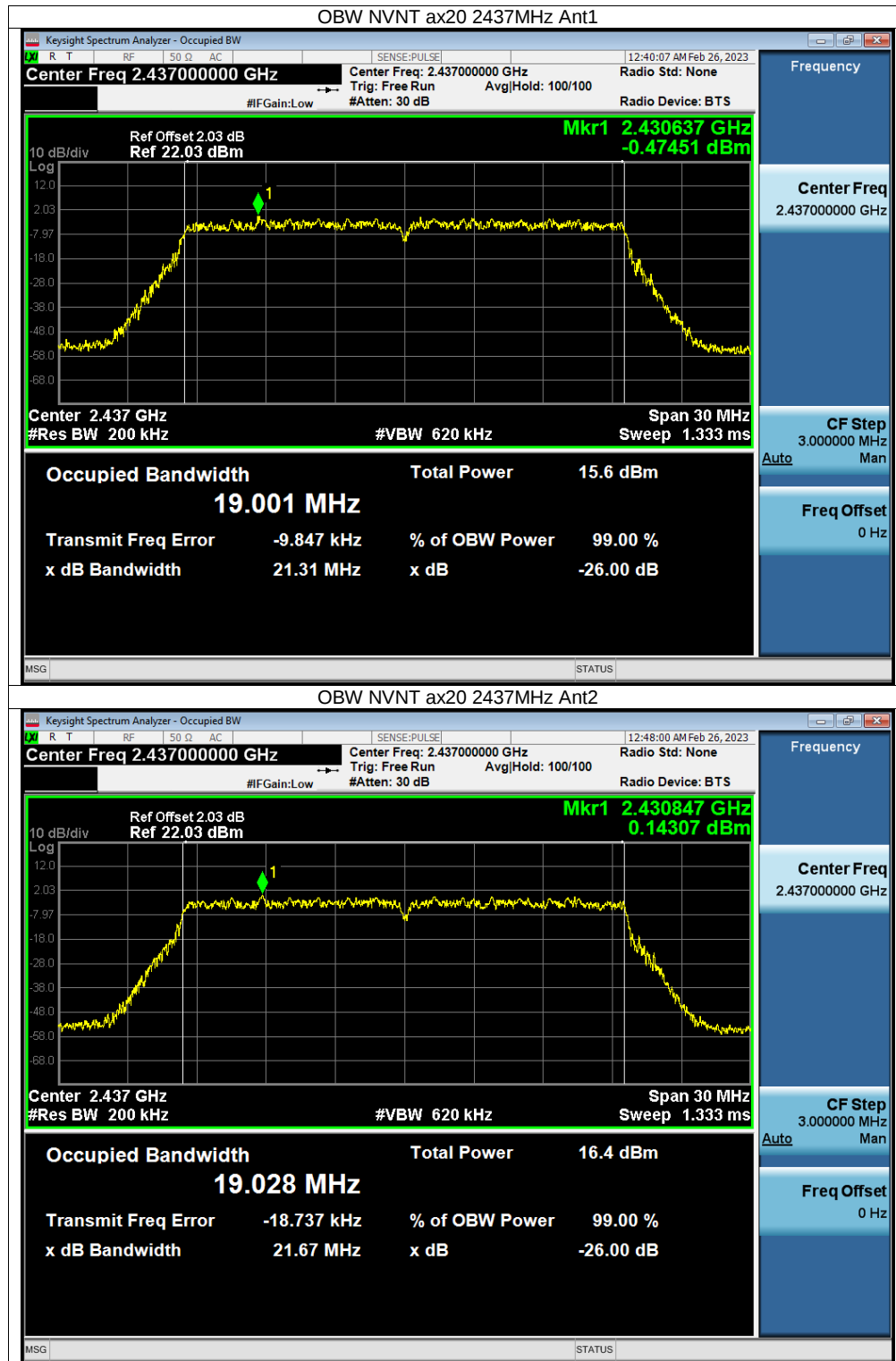


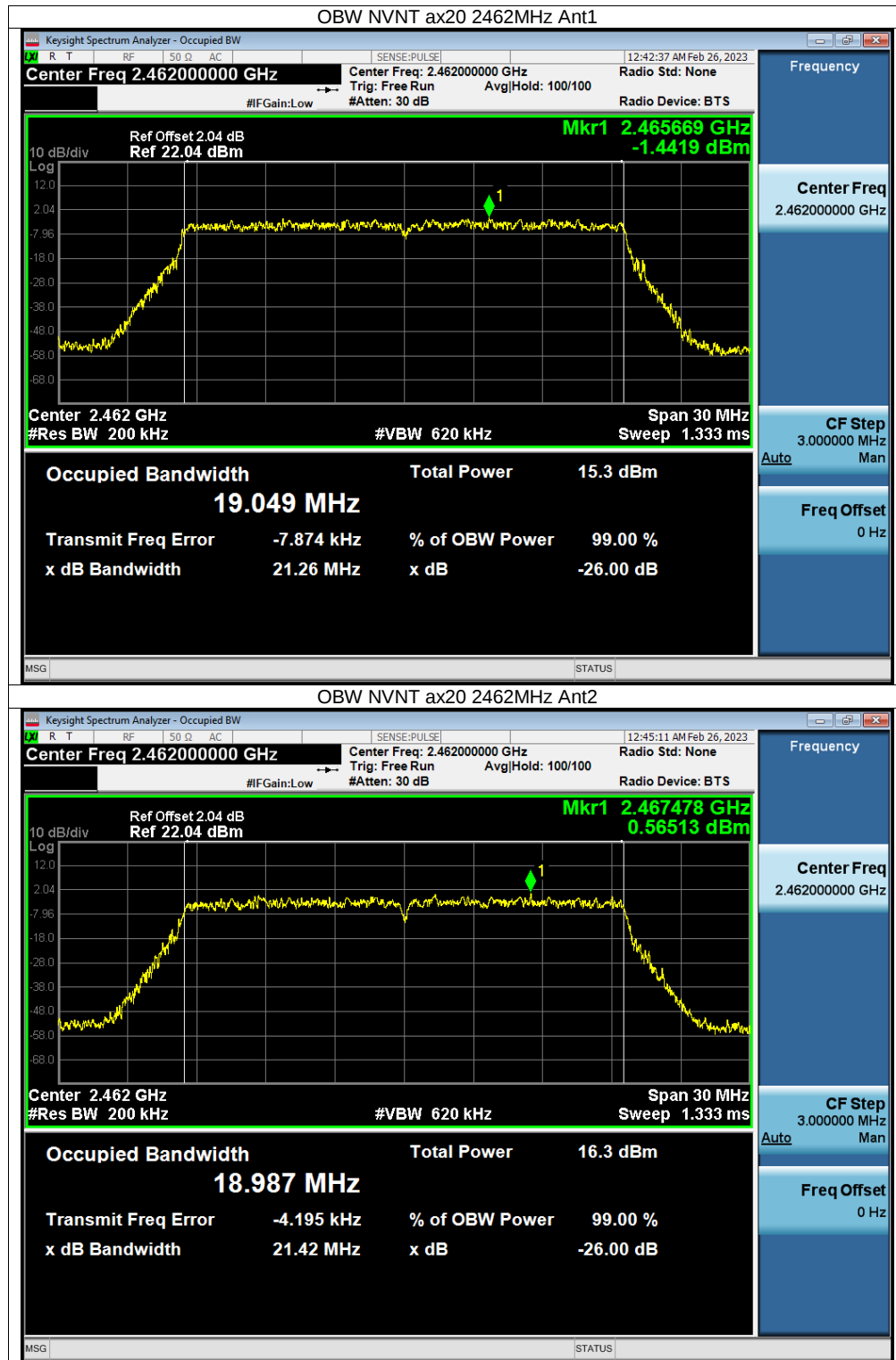


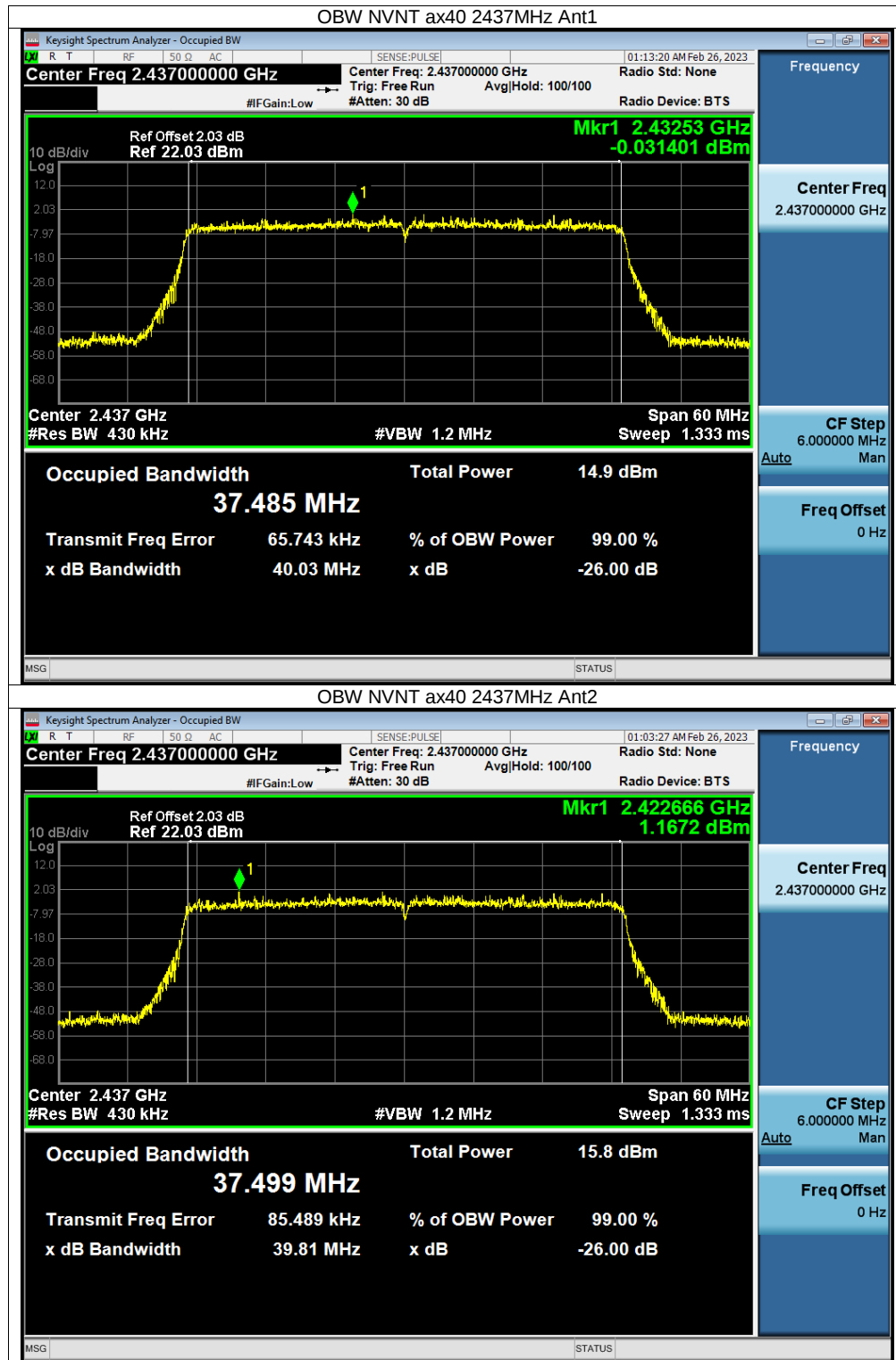


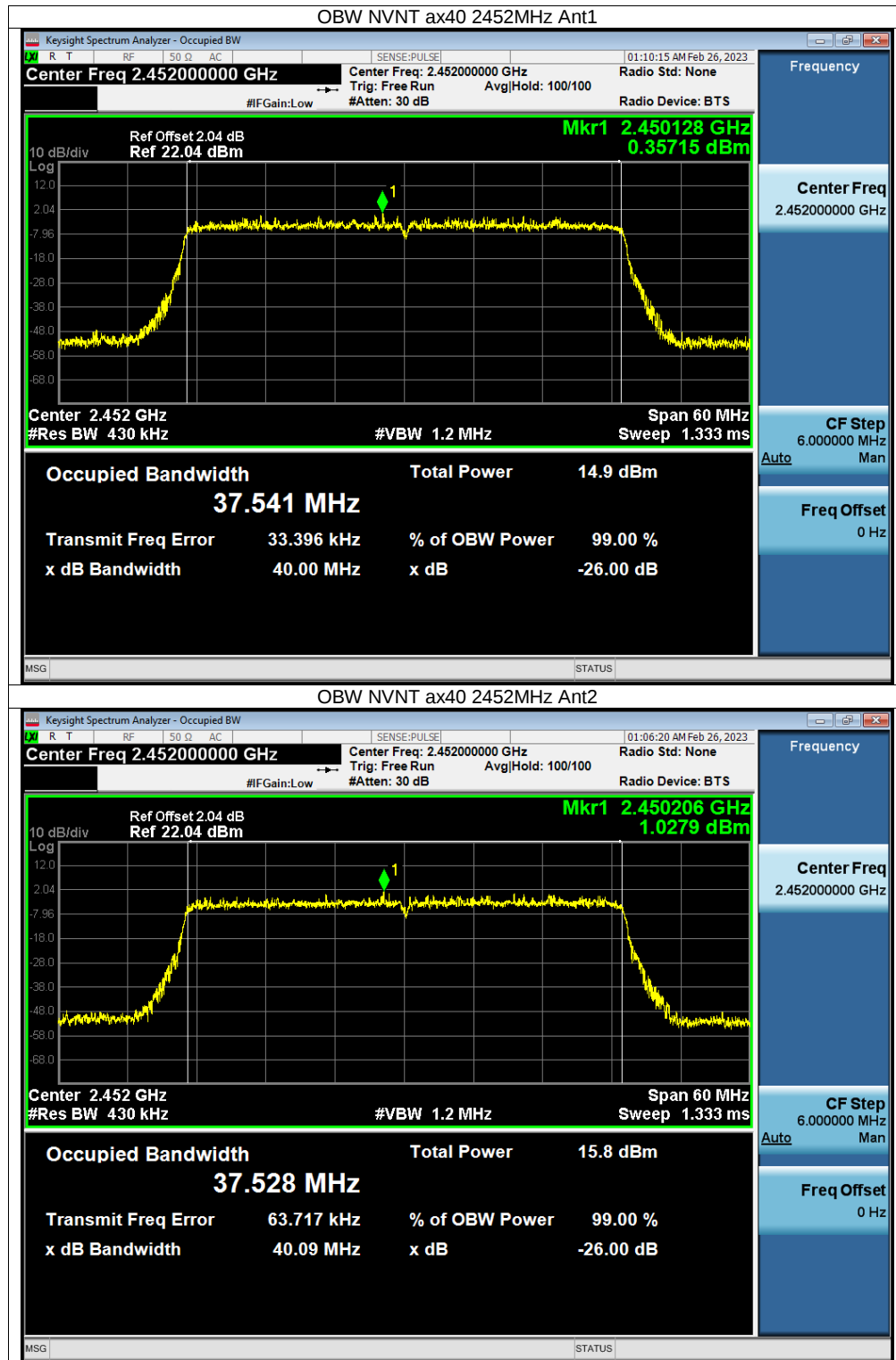












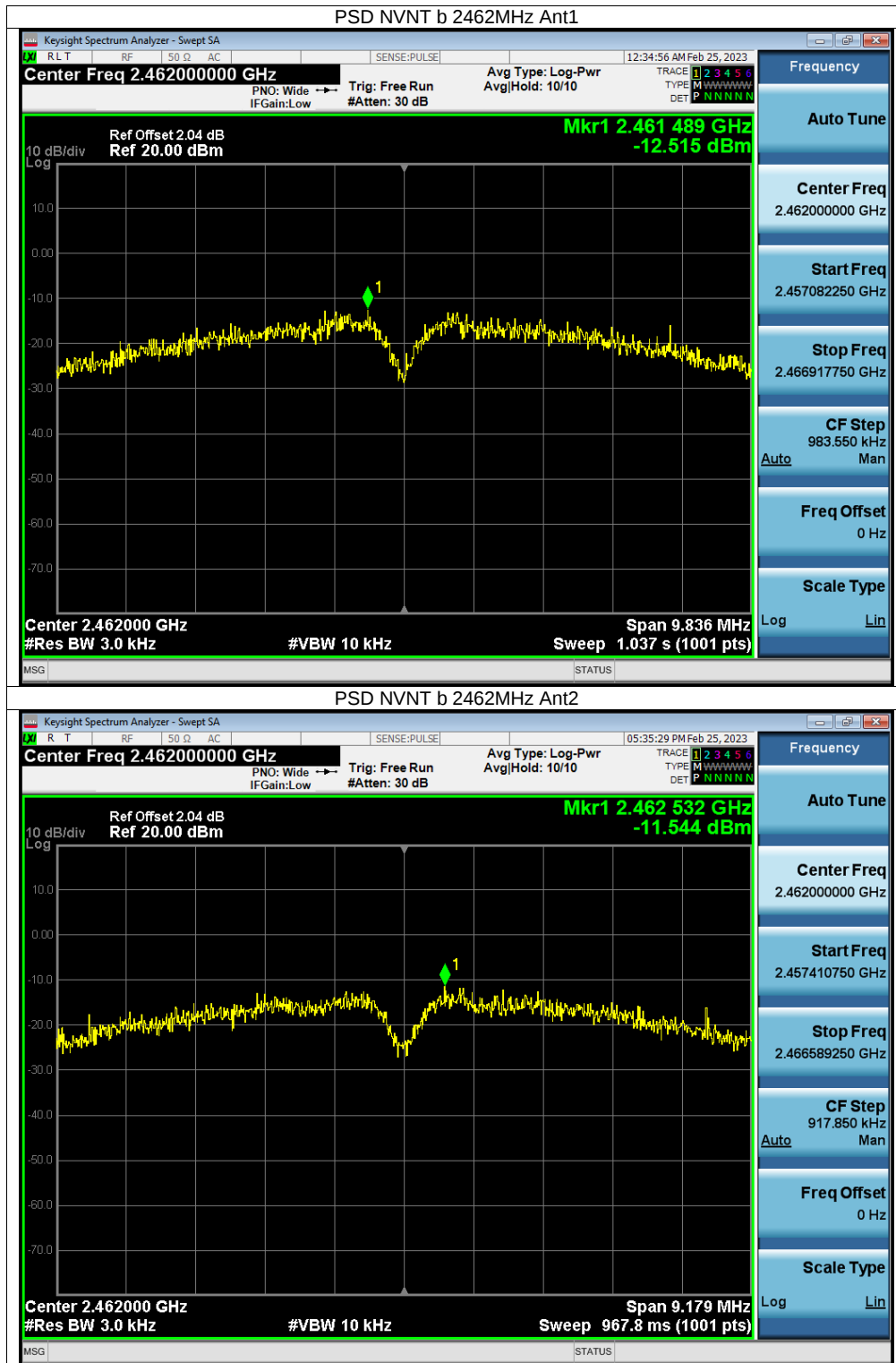


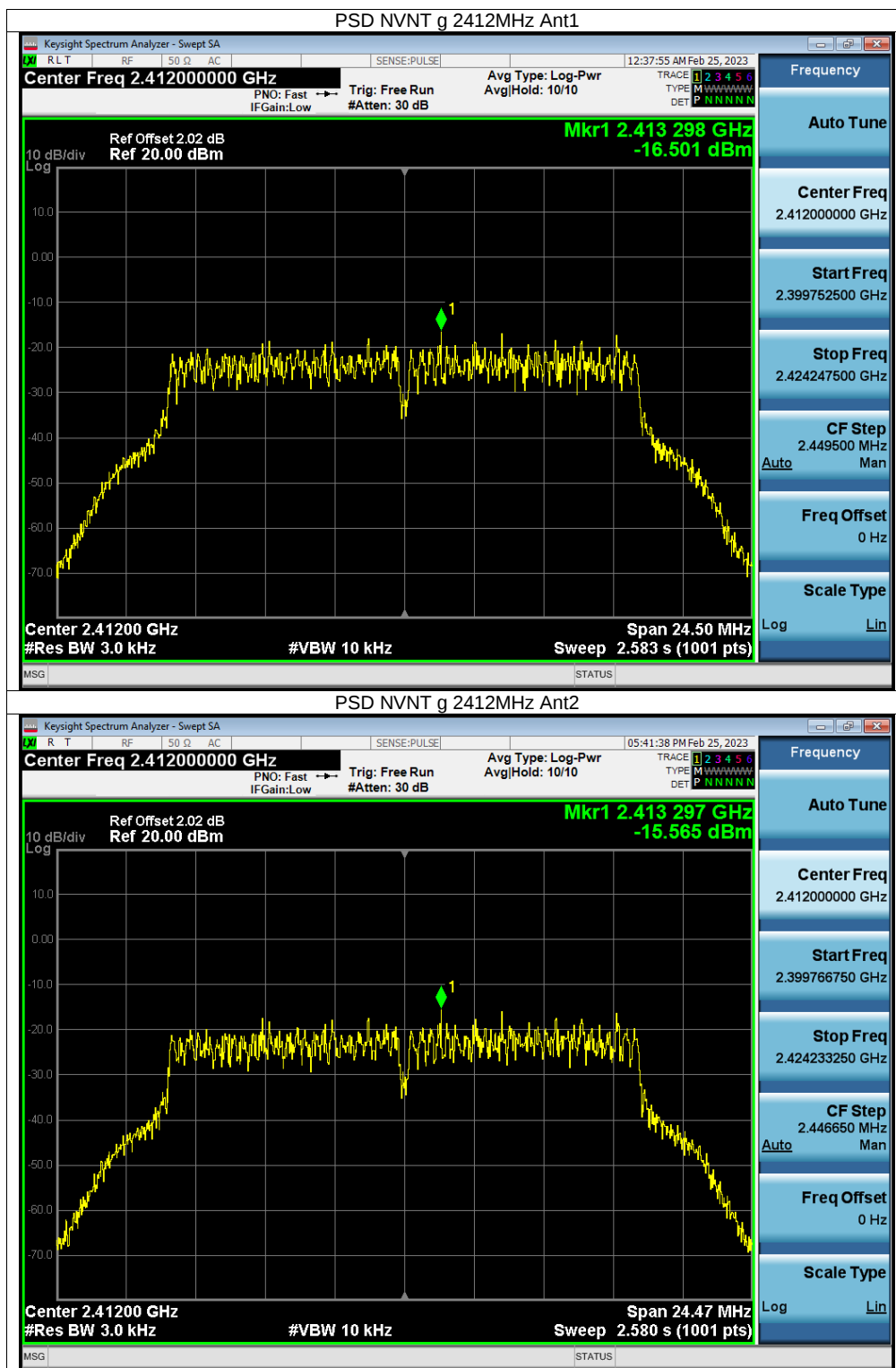
Maximum Power Spectral Density Level

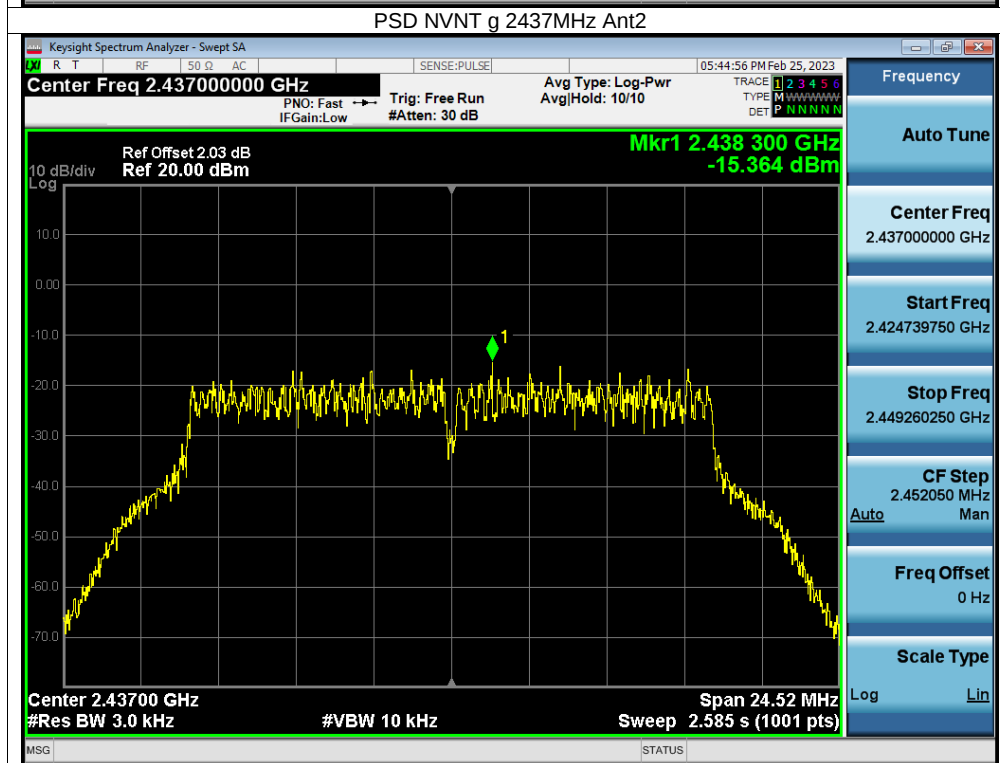
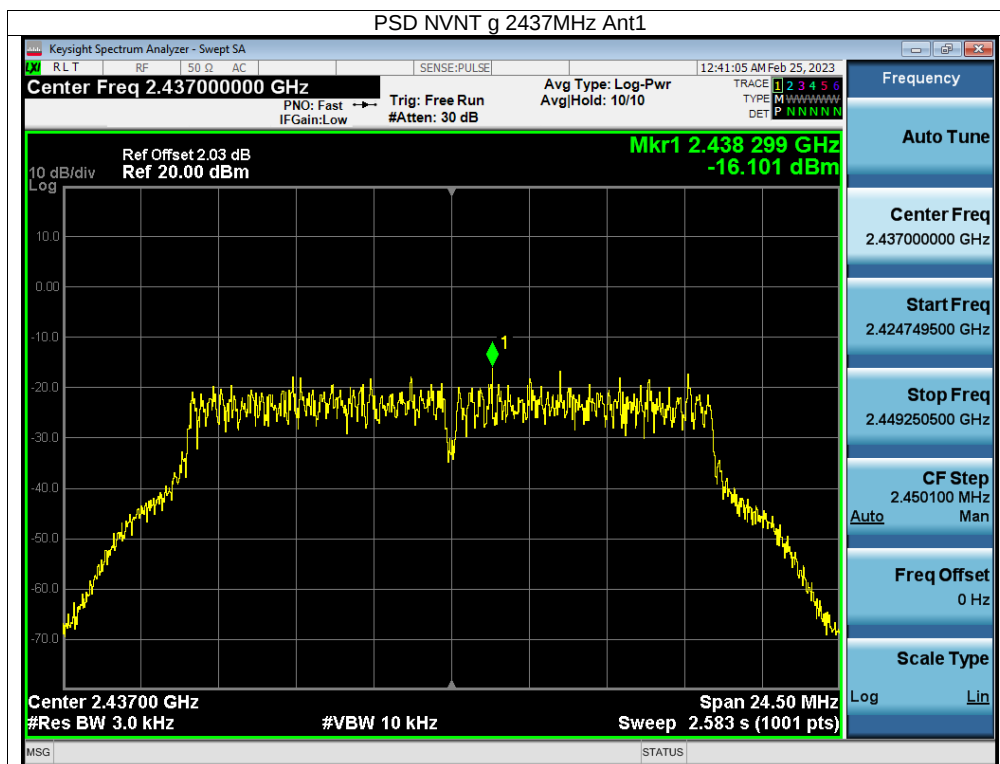
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.73	8	Pass
NVNT	b	2412	Ant2	-12.18	8	Pass
NVNT	b	2437	Ant1	-12.62	8	Pass
NVNT	b	2437	Ant2	-11.57	8	Pass
NVNT	b	2462	Ant1	-12.52	8	Pass
NVNT	b	2462	Ant2	-11.54	8	Pass
NVNT	g	2412	Ant1	-16.5	8	Pass
NVNT	g	2412	Ant2	-15.57	8	Pass
NVNT	g	2437	Ant1	-16.1	8	Pass
NVNT	g	2437	Ant2	-15.36	8	Pass
NVNT	g	2462	Ant1	-16.88	8	Pass
NVNT	g	2462	Ant2	-15.39	8	Pass
NVNT	n20	2412	Ant1	-17.16	8	Pass
NVNT	n20	2412	Ant2	-17.26	8	Pass
NVNT	n20	2412	Sum	-14.2	6.99	Pass
NVNT	n20	2437	Ant1	-17.06	8	Pass
NVNT	n20	2437	Ant2	-16.43	8	Pass
NVNT	n20	2437	Sum	-13.72	6.99	Pass
NVNT	n20	2462	Ant1	-18.07	8	Pass
NVNT	n20	2462	Ant2	-16.42	8	Pass
NVNT	n20	2462	Sum	-14.16	6.99	Pass
NVNT	n40	2422	Ant1	-21.45	8	Pass
NVNT	n40	2422	Ant2	-20.44	8	Pass
NVNT	n40	2422	Sum	-17.91	6.99	Pass
NVNT	n40	2437	Ant1	-21.29	8	Pass
NVNT	n40	2437	Ant2	-20.39	8	Pass
NVNT	n40	2437	Sum	-17.81	6.99	Pass
NVNT	n40	2452	Ant1	-21.96	8	Pass
NVNT	n40	2452	Ant2	-20	8	Pass
NVNT	n40	2452	Sum	-17.86	6.99	Pass
NVNT	ax20	2412	Ant1	-17.82	8	Pass
NVNT	ax20	2412	Ant2	-16.97	8	Pass
NVNT	ax20	2412	Sum	-14.36	6.99	Pass
NVNT	ax20	2437	Ant1	-17.06	8	Pass
NVNT	ax20	2437	Ant2	-16.96	8	Pass
NVNT	ax20	2437	Sum	-14	6.99	Pass
NVNT	ax20	2462	Ant1	-18.01	8	Pass
NVNT	ax20	2462	Ant2	-16.68	8	Pass
NVNT	ax20	2462	Sum	-14.28	6.99	Pass
NVNT	ax40	2437	Ant1	-19.38	8	Pass
NVNT	ax40	2437	Ant2	-19.08	8	Pass
NVNT	ax40	2437	Sum	-16.22	6.99	Pass
NVNT	ax40	2452	Ant1	-19.76	8	Pass
NVNT	ax40	2452	Ant2	-19.23	8	Pass
NVNT	ax40	2452	Sum	-16.48	6.99	Pass
NVNT	ax40	2422	Ant1	-20.26	8	Pass
NVNT	ax40	2422	Ant2	-19.49	8	Pass
NVNT	ax40	2422	Sum	-16.85	6.99	Pass









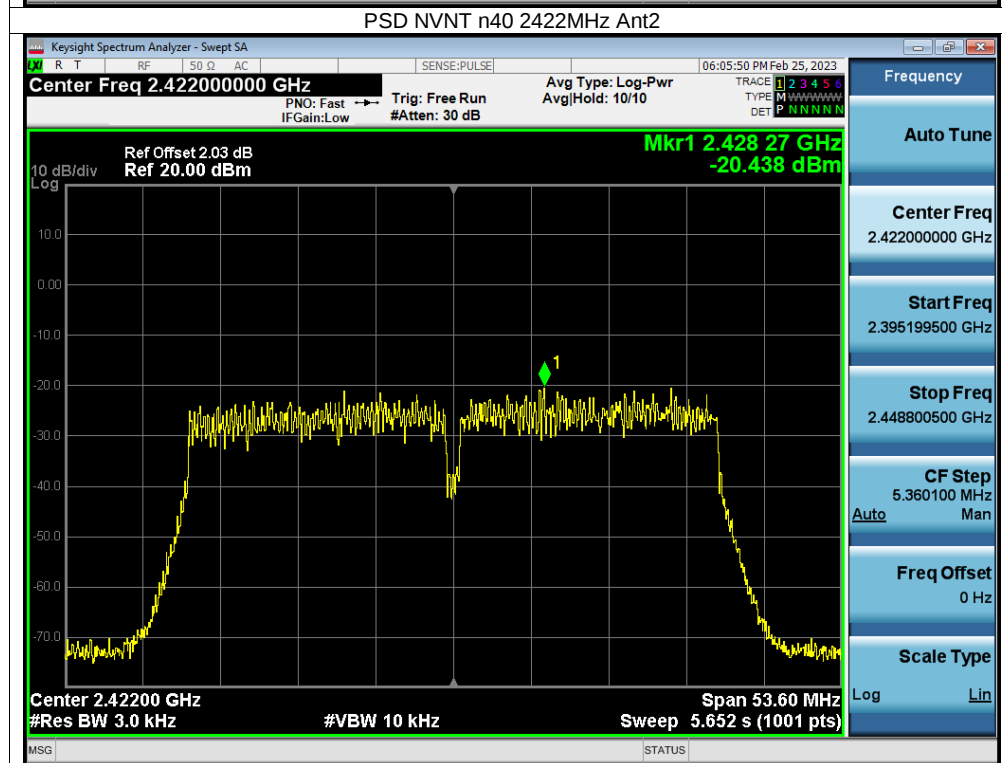


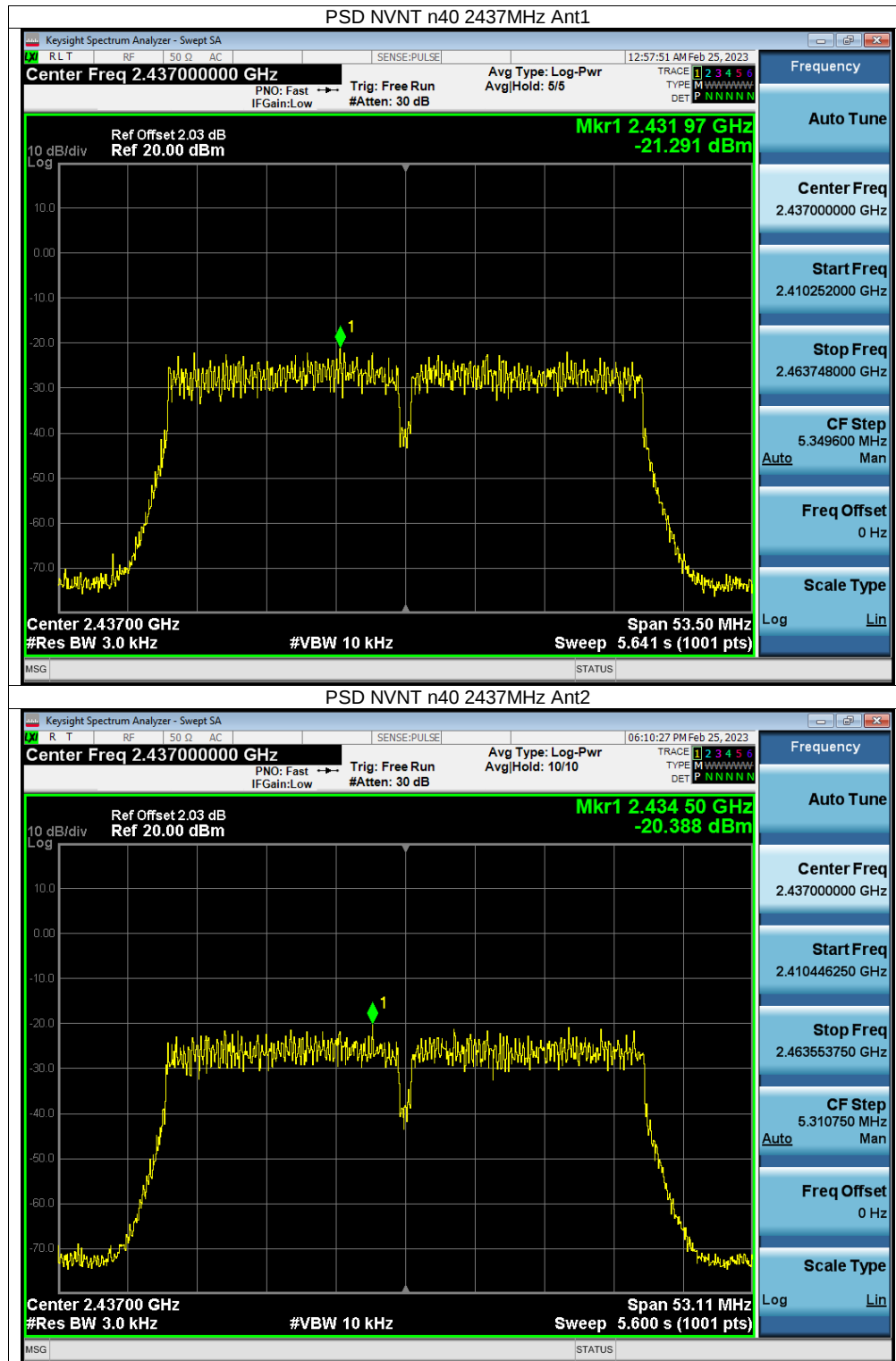


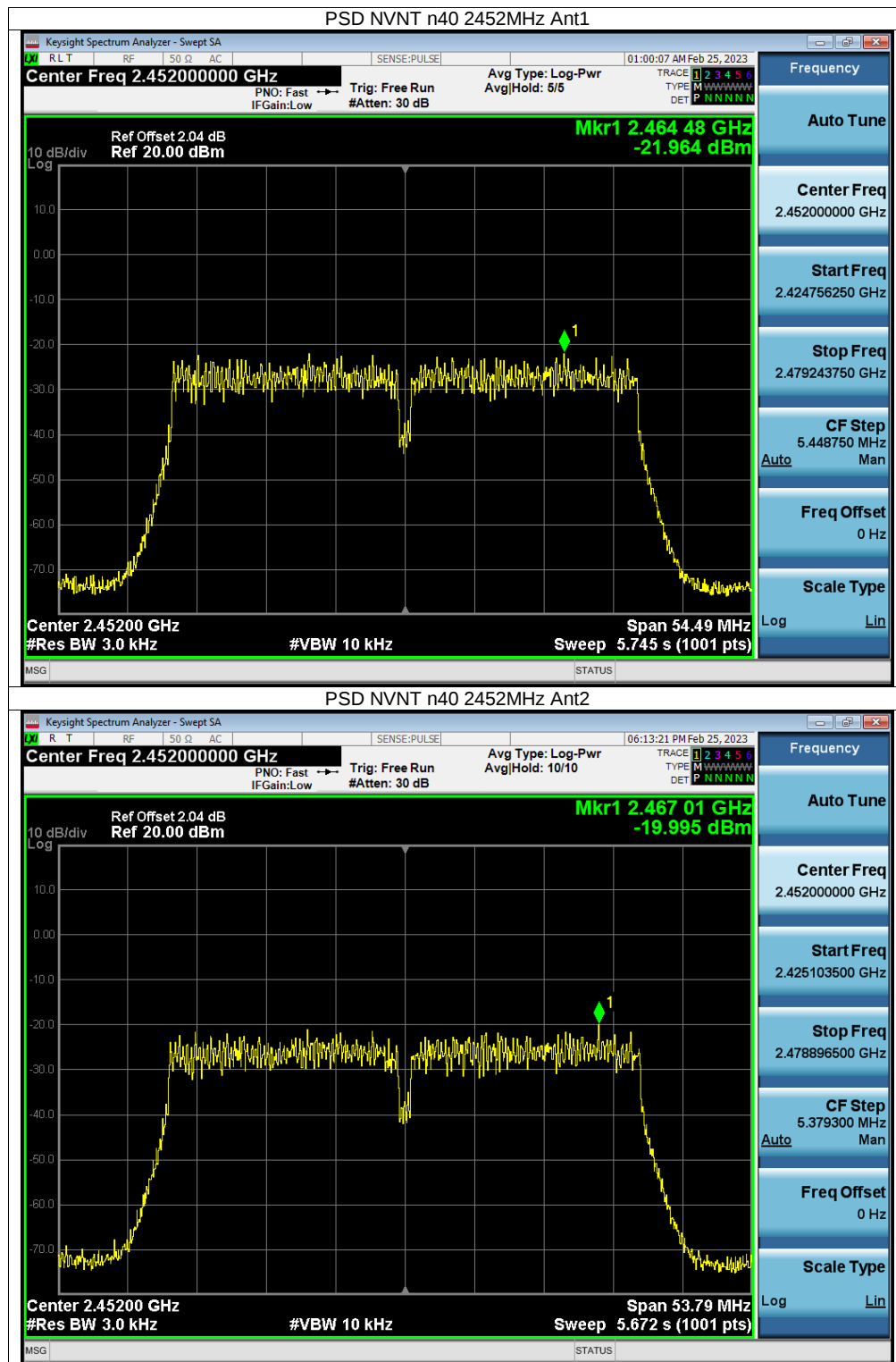


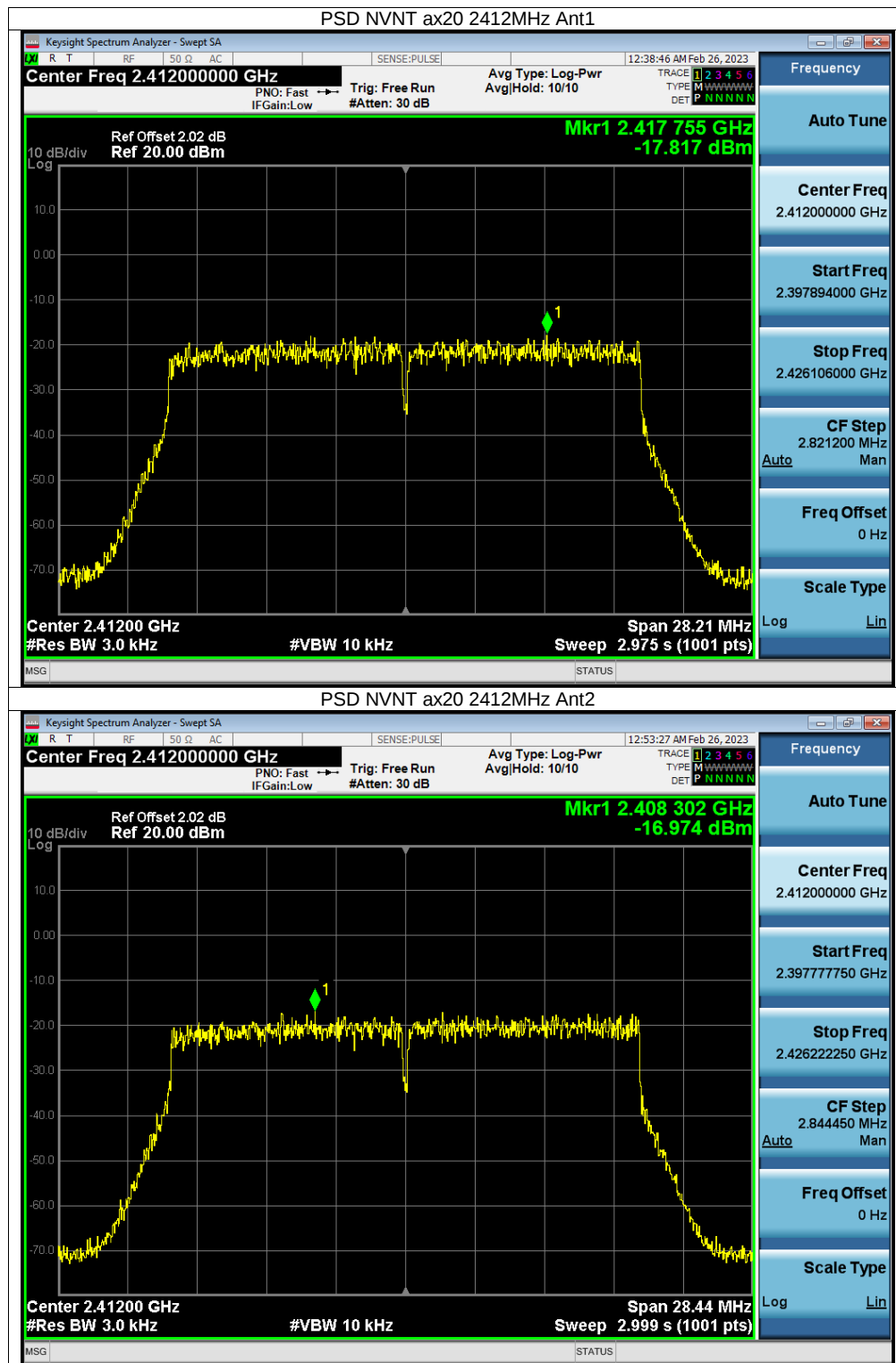


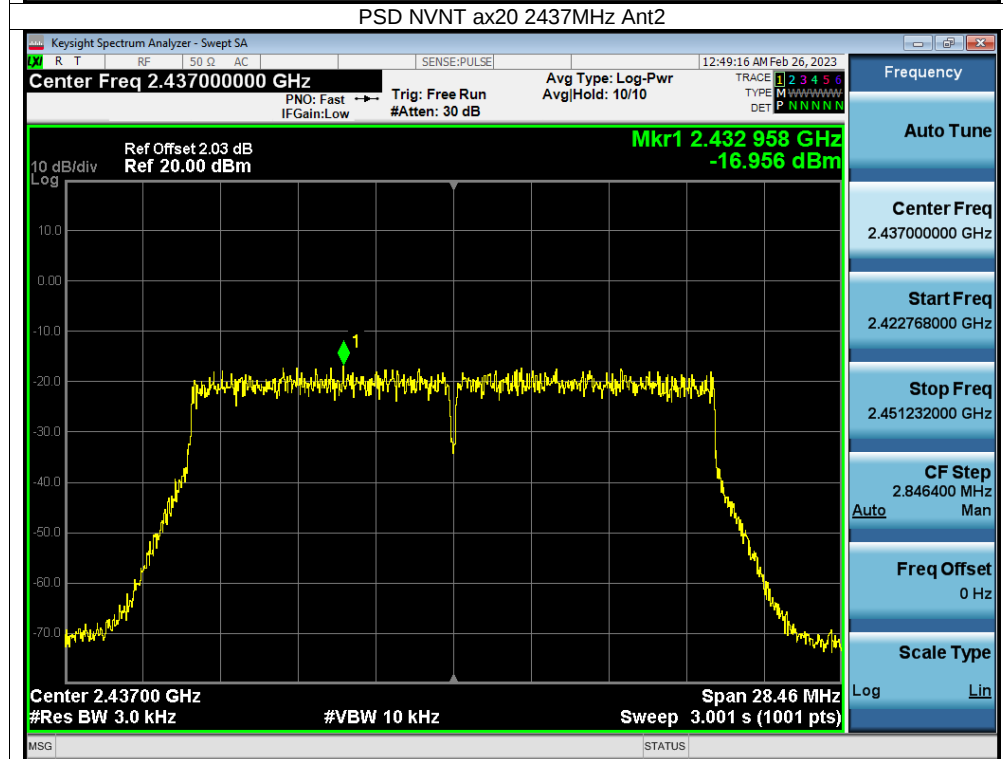
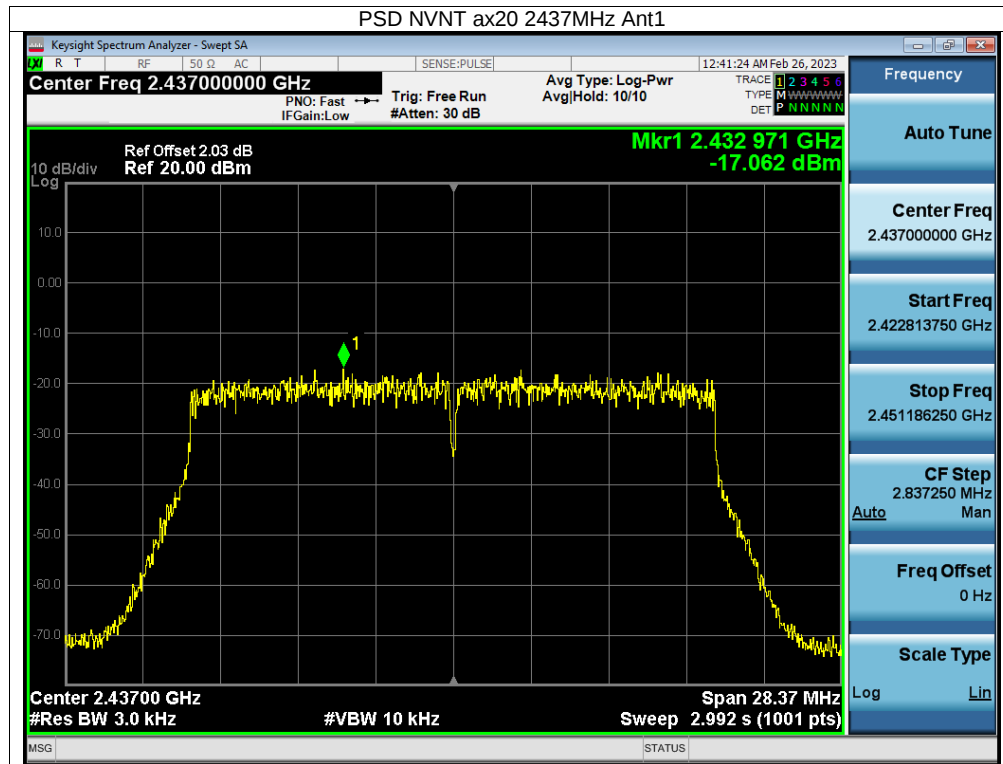


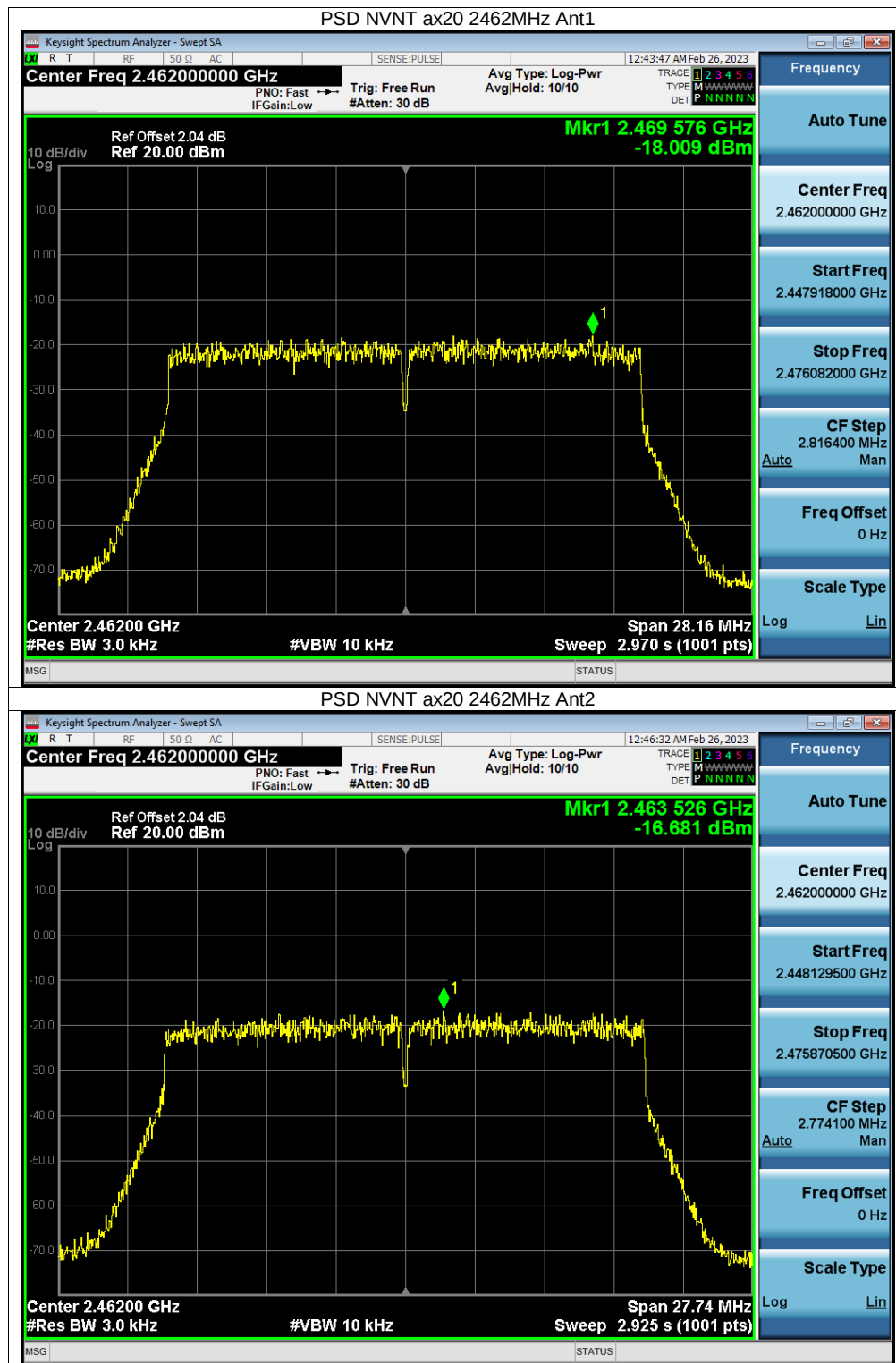


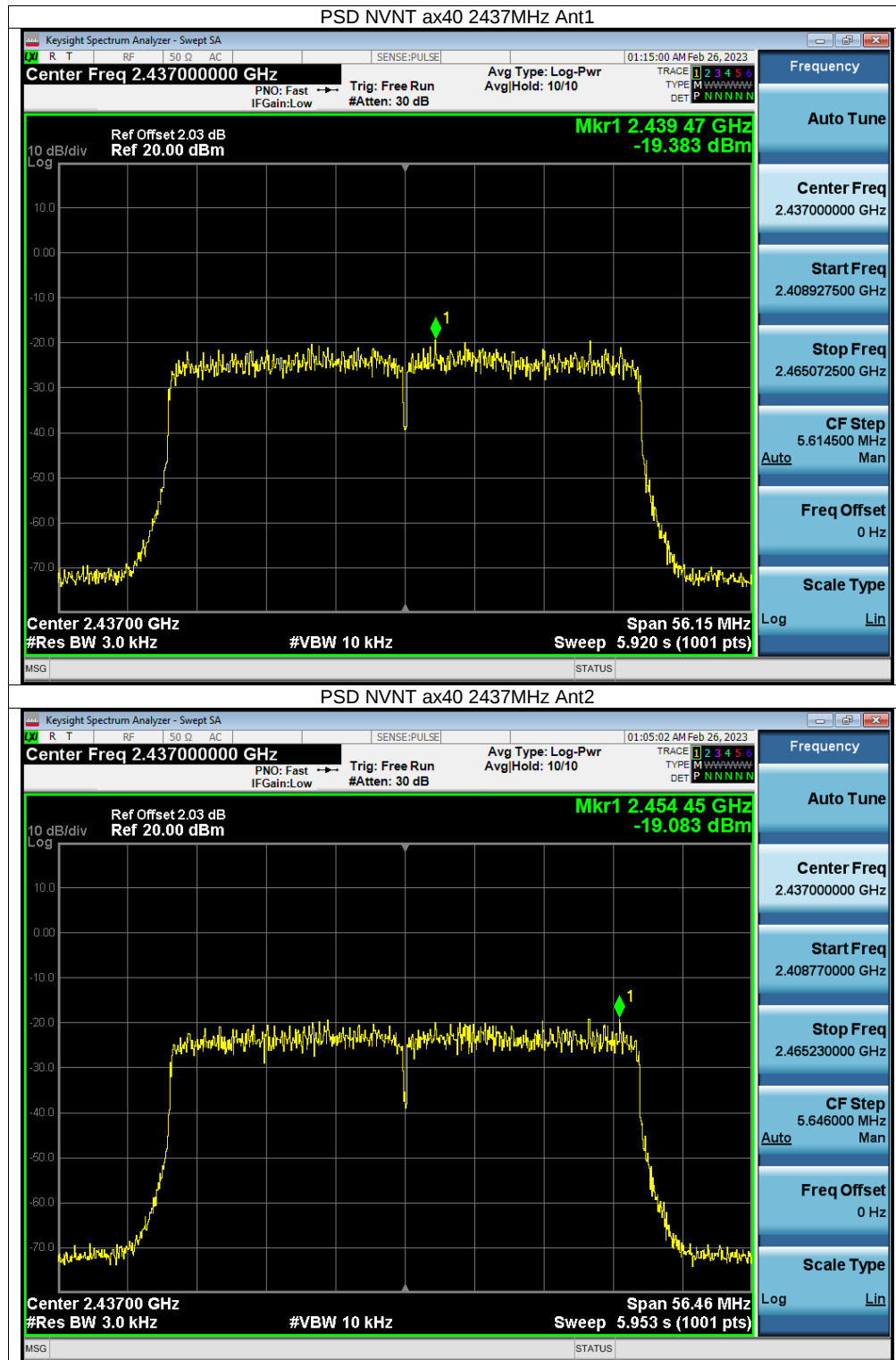










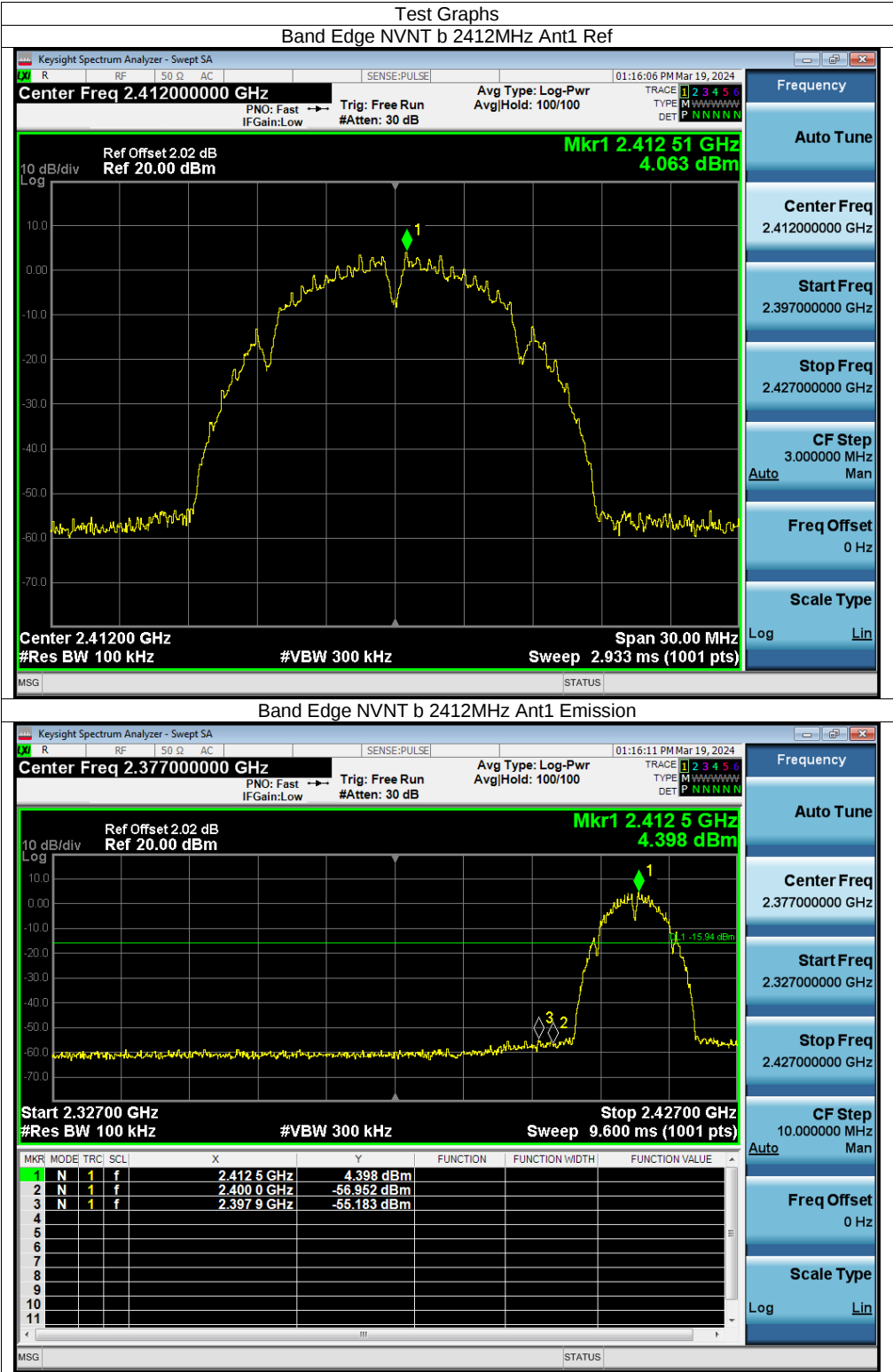






Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-59.24	-20	Pass
NVNT	b	2412	Ant2	-59.66	-20	Pass
NVNT	b	2462	Ant1	-60.12	-20	Pass
NVNT	b	2462	Ant2	-60.15	-20	Pass
NVNT	g	2412	Ant1	-46.66	-20	Pass
NVNT	g	2412	Ant2	-47.59	-20	Pass
NVNT	g	2462	Ant1	-54.08	-20	Pass
NVNT	g	2462	Ant2	-54.92	-20	Pass
NVNT	n20	2412	Ant1	-44.87	-20	Pass
NVNT	n20	2412	Ant2	-46.36	-20	Pass
NVNT	n20	2462	Ant1	-54.05	-20	Pass
NVNT	n20	2462	Ant2	-53.97	-20	Pass
NVNT	n40	2422	Ant1	-50.25	-20	Pass
NVNT	n40	2422	Ant2	-49.49	-20	Pass
NVNT	n40	2452	Ant1	-51.41	-20	Pass
NVNT	n40	2452	Ant2	-52.17	-20	Pass
NVNT	ax20	2412	Ant1	-47.3	-20	Pass
NVNT	ax20	2412	Ant2	-48.03	-20	Pass
NVNT	ax20	2462	Ant1	-55.31	-20	Pass
NVNT	ax20	2462	Ant2	-54.5	-20	Pass
NVNT	ax40	2422	Ant1	-49.67	-20	Pass
NVNT	ax40	2422	Ant2	-47.32	-20	Pass
NVNT	ax40	2452	Ant1	-52.33	-20	Pass
NVNT	ax40	2452	Ant2	-51.86	-20	Pass



Band Edge NVNT b 2412MHz Ant1 Emission

Keysight Spectrum Analyzer - Swept SA

R RF 50 Ω AC

SENSE: PULSE

01:16:11 PM Mar 19, 2024

Center Freq 2.377000000 GHz

PNO: Fast Trig: Free Run Avg Type: Log-Pwr

IFGain: Low #Atten: 30 dB Avg/Hold: 100/100

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 2.02 dB

Ref 20.00 dBm

Mkr1 2.412 5 GHz

4.398 dBm

Start 2.32700 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 2.42700 GHz

Sweep 9.600 ms (1001 pts)

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.377000000 GHz

Start Freq 2.327000000 GHz

Stop Freq 2.427000000 GHz

CF Step 10.000000 MHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin