

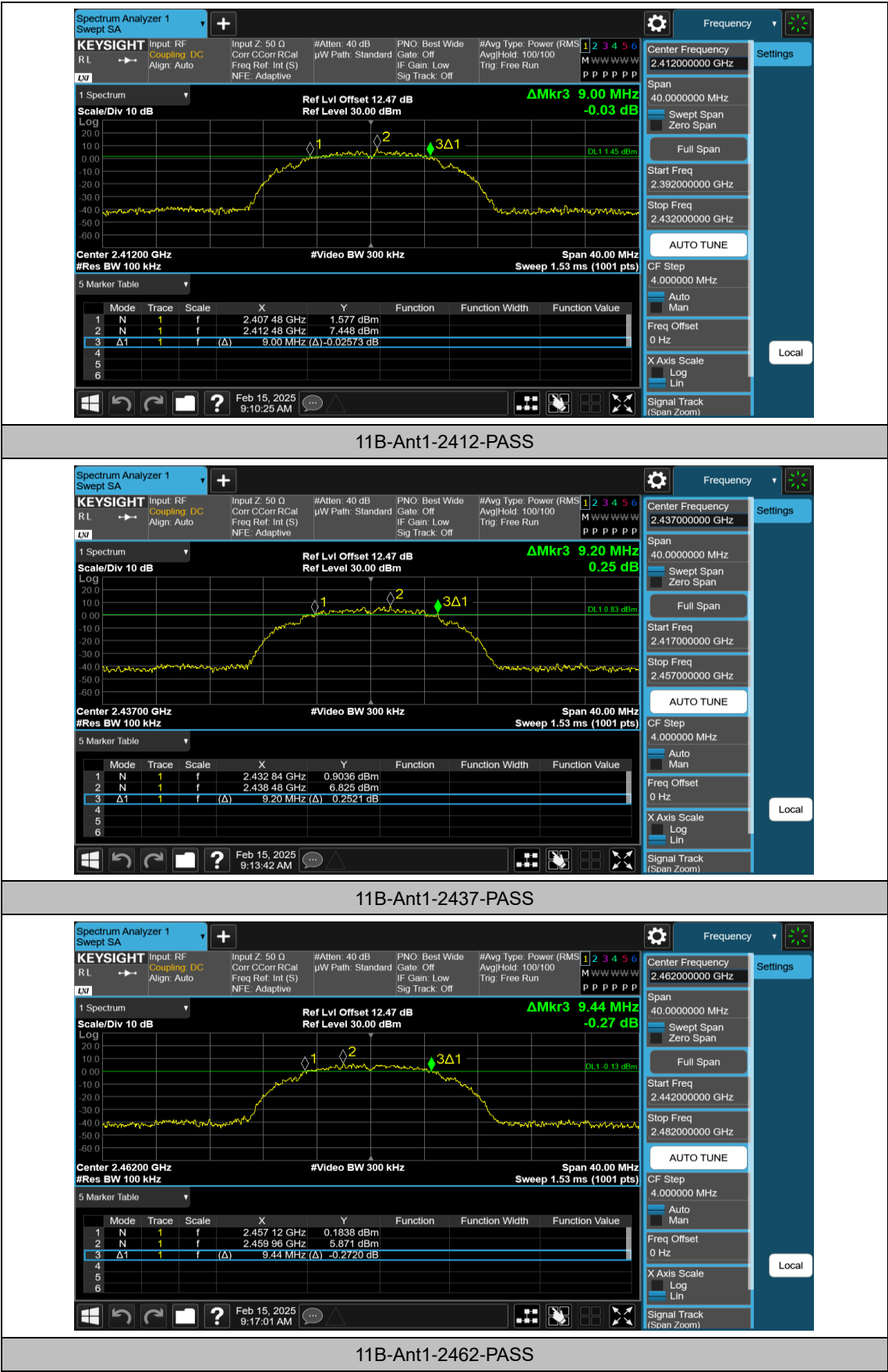
Appendix A of WIFI Results

DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.480	2416.480	0.5	PASS
11B	Ant1	2437	9.200	2432.840	2442.040	0.5	PASS
11B	Ant1	2462	9.440	2457.120	2466.560	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
11G	Ant1	2462	16.440	2453.800	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.200	2403.360	2420.560	0.5	PASS
11N20SISO	Ant1	2437	16.920	2428.600	2445.520	0.5	PASS
11N20SISO	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS

Test Graphs



11B-Ant1-2412-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr

RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 40 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.437000000 GHz

Span

40.00000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.417000000 GHz

Stop Freq

2.457000000 GHz

AUTO TUNE

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 30.00 dBm

Δ Mkr3 9.20 MHz

0.25 dB

DL1 0.83 dBm

Center 2.43700 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Span 40.00 MHz

Sweep 1.53 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.432 84 GHz	0.9036 dBm			
2	N	1	f	2.438 48 GHz	6.825 dBm			
3	Δ 1	1	f (Δ)	9.20 MHz (Δ)	0.2521 dB			
4								
5								
6								

Feb 15, 2025

9:13:42 AM

11B-Ant1-2437-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr

RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 40 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.462000000 GHz

Span

40.00000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.442000000 GHz

Stop Freq

2.482000000 GHz

AUTO TUNE

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 30.00 dBm

Δ Mkr3 9.44 MHz

-0.27 dB

DL1 -0.13 dBm

Center 2.46200 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Span 40.00 MHz

Sweep 1.53 ms (1001 pts)

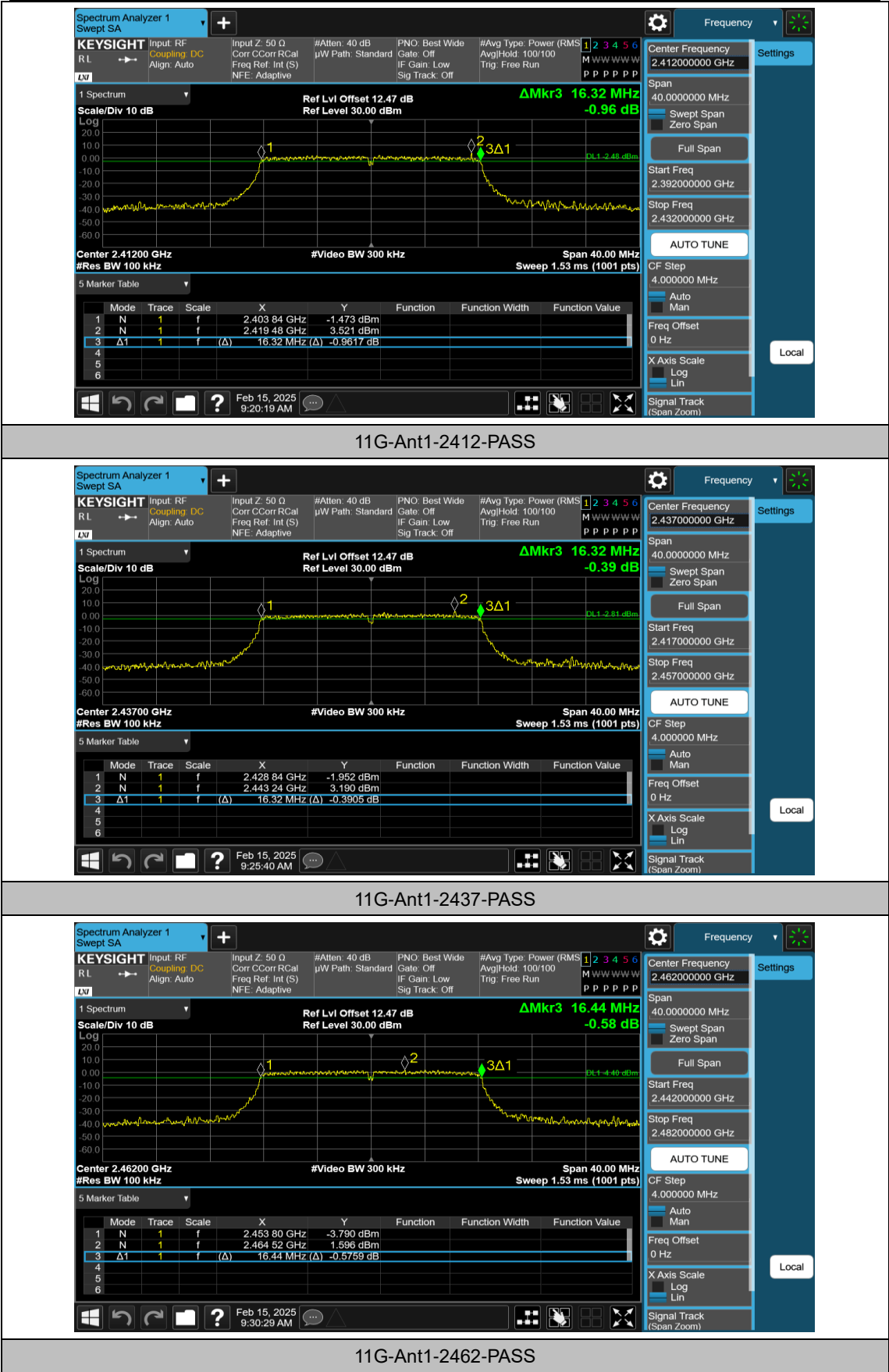
5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.457 12 GHz	0.1838 dBm			
2	N	1	f	2.459 96 GHz	5.871 dBm			
3	Δ 1	1	f (Δ)	9.44 MHz (Δ)	-0.2720 dB			
4								
5								
6								

Feb 15, 2025

9:17:01 AM

11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: C

Corr: R

Cal: Int (S)

NFE: Adaptive

#Atten: 40 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.43700000 GHz

Span

40.0000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.417000000 GHz

Stop Freq

2.457000000 GHz

AUTO TUNE

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 30.00 dBm

Δ Mkr3 16.32 MHz

-0.39 dB

Center 2.43700 GHz

#Video BW 300 kHz

Span 40.00 MHz

#Res BW 100 kHz

Sweep 1.53 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.428 84 GHz	-1.952 dBm			
2	N	1	f	2.443 24 GHz	3.190 dBm			
3	Δ 1	1	f (Δ)	16.32 MHz (Δ)	-0.3905 dB			
4								
5								
6								

Feb 15, 2025

9:25:40 AM

11G-Ant1-2437-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: C

Corr: R

Cal: Int (S)

NFE: Adaptive

#Atten: 40 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.46200000 GHz

Span

40.0000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.442000000 GHz

Stop Freq

2.482000000 GHz

AUTO TUNE

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 30.00 dBm

Δ Mkr3 16.44 MHz

-0.58 dB

Center 2.46200 GHz

#Video BW 300 kHz

Span 40.00 MHz

#Res BW 100 kHz

Sweep 1.53 ms (1001 pts)

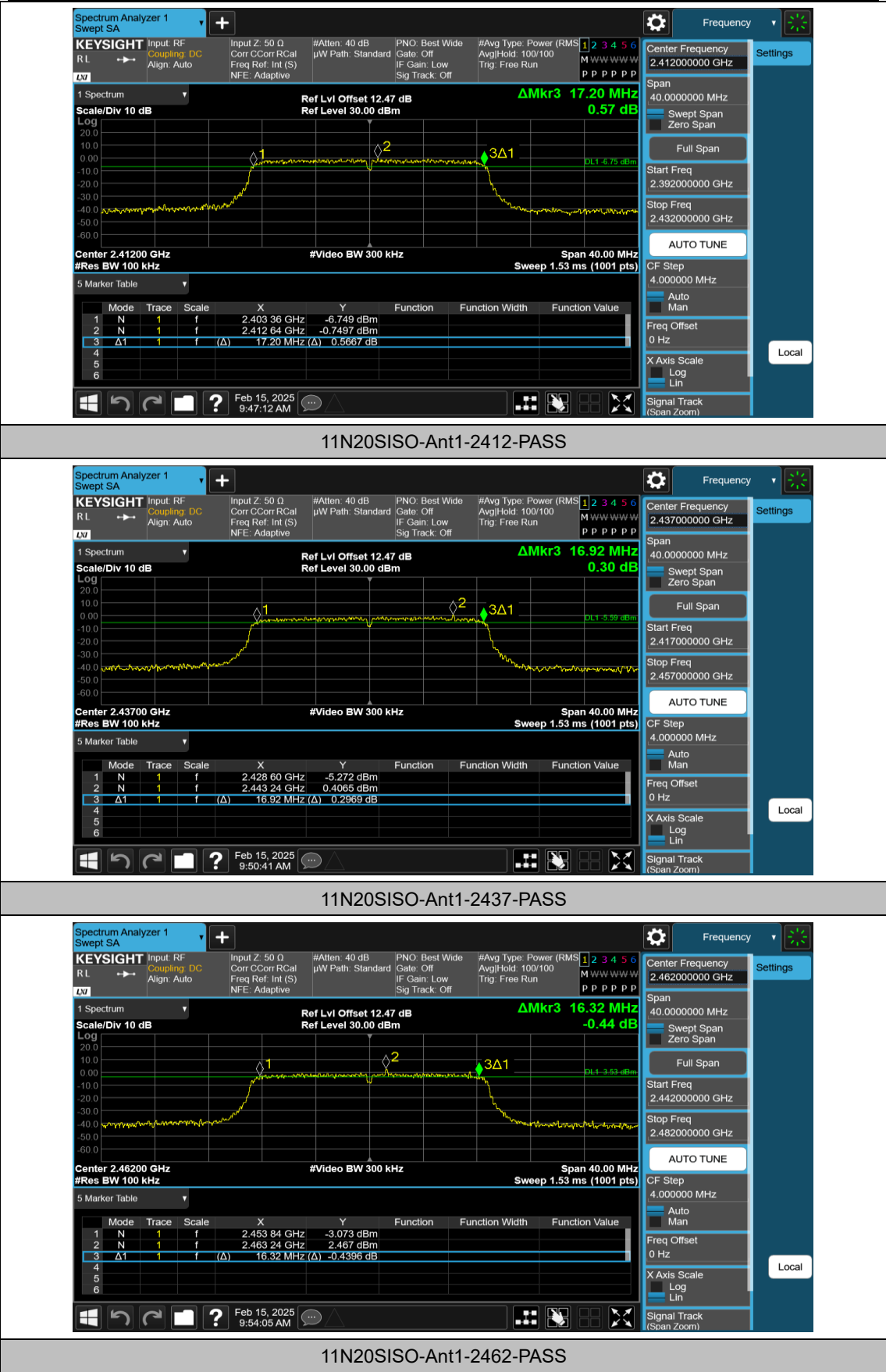
5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.453 80 GHz	-3.790 dBm			
2	N	1	f	2.464 52 GHz	1.596 dBm			
3	Δ 1	1	f (Δ)	16.44 MHz (Δ)	-0.5759 dB			
4								
5								
6								

Feb 15, 2025

9:30:29 AM

11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr: RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 40 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.437000000 GHz

Span

40.0000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.417000000 GHz

Stop Freq

2.457000000 GHz

AUTO TUNE

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 30.00 dBm

Δ Mkr3 16.92 MHz

0.30 dB

OL1 -5.59 dBm

Center 2.43700 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Span 40.00 MHz

Sweep 1.53 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.428 60 GHz	-5.272 dBm			
2	N	1	f	2.443 24 GHz	0.4065 dBm			
3	Δ 1	1	f	(Δ) 16.92 MHz (Δ)	0.2969 dB			
4								
5								
6								

Feb 15, 2025

9:50:41 AM

11N20SISO-Ant1-2437-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr: RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 40 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.462000000 GHz

Span

40.0000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.442000000 GHz

Stop Freq

2.482000000 GHz

AUTO TUNE

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 30.00 dBm

Δ Mkr3 16.32 MHz

-0.44 dB

OL1 -3.63 dBm

Center 2.46200 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Span 40.00 MHz

Sweep 1.53 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.453 84 GHz	-3.073 dBm			
2	N	1	f	2.463 24 GHz	2.467 dBm			
3	Δ 1	1	f	(Δ) 16.32 MHz (Δ)	-0.4396 dB			
4								
5								
6								

Feb 15, 2025

9:54:05 AM

11N20SISO-Ant1-2462-PASS

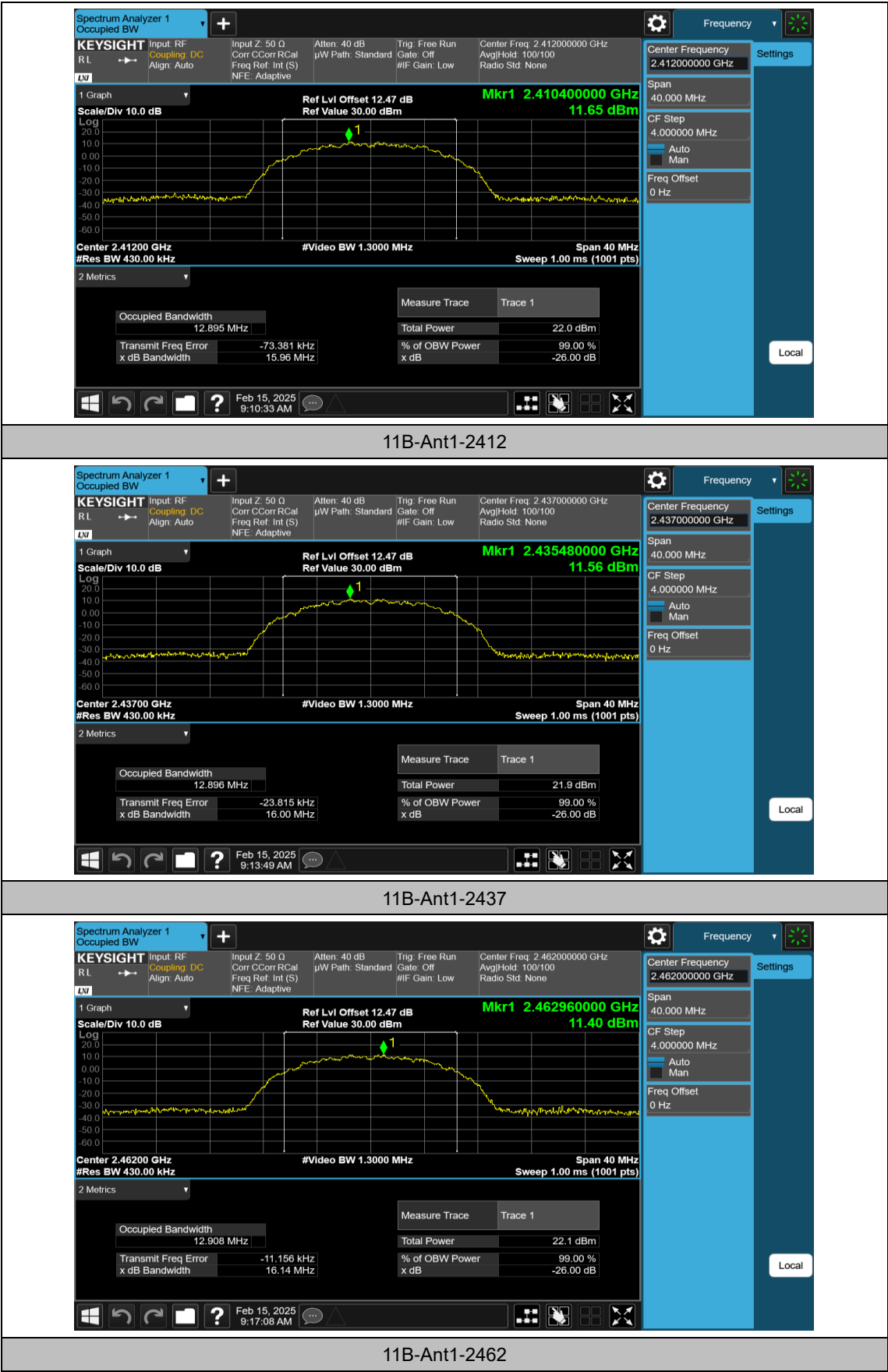
FCC ID: 2AV7A-FW06
IC: 26039- FW06

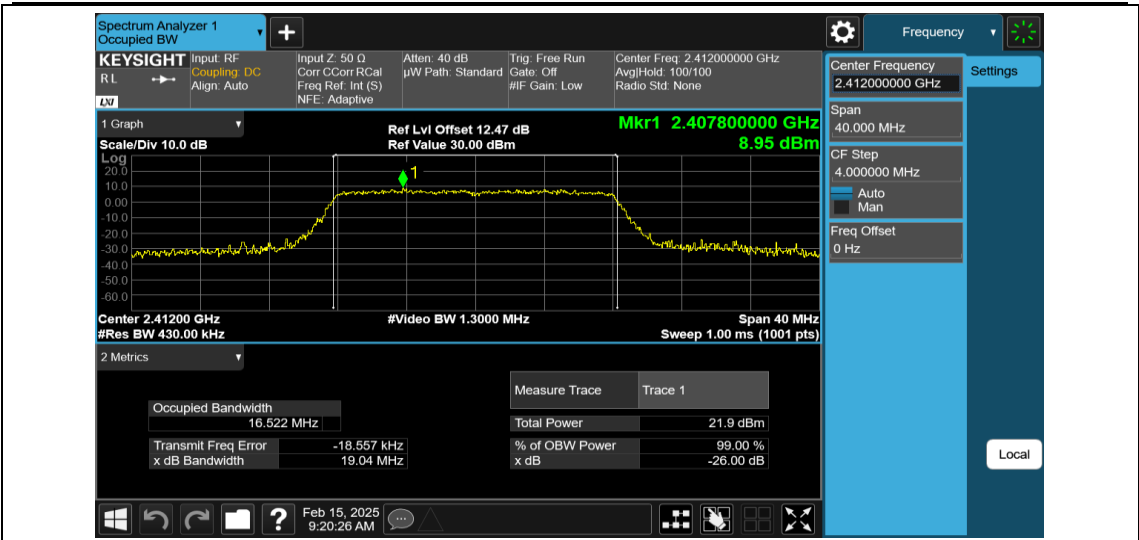
Occupied Channel Bandwidth

Test Result

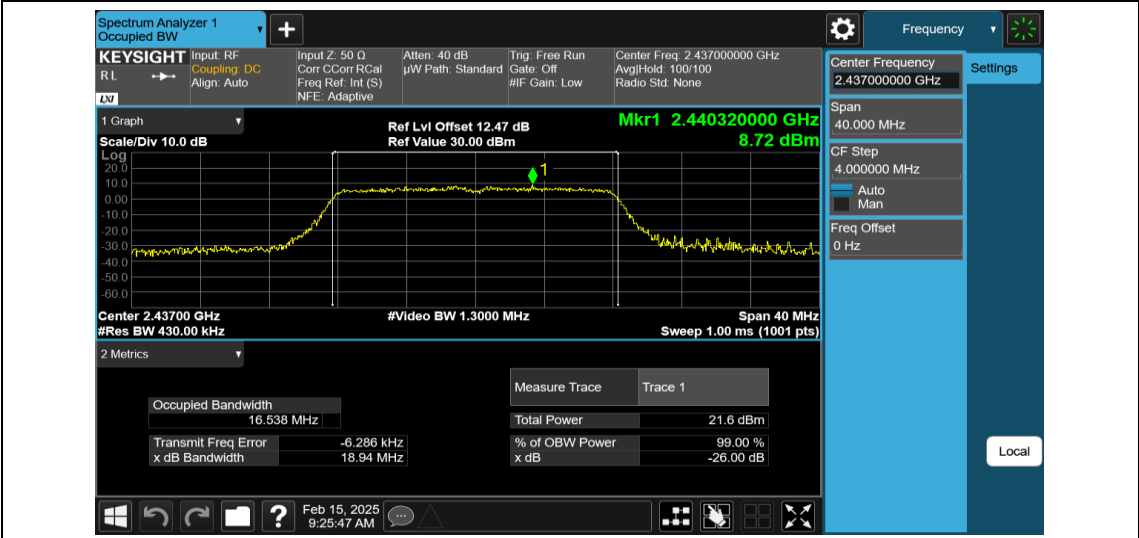
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.895	2405.4791	2418.3741	---	---
11B	Ant1	2437	12.896	2430.5282	2443.4242	---	---
11B	Ant1	2462	12.908	2455.5348	2468.4428	---	---
11G	Ant1	2412	16.522	2403.7204	2420.2424	---	---
11G	Ant1	2437	16.538	2428.7247	2445.2627	---	---
11G	Ant1	2462	16.564	2453.6823	2470.2463	---	---
11N20SISO	Ant1	2412	17.328	2403.3106	2420.6386	---	---
11N20SISO	Ant1	2437	17.356	2428.3298	2445.6858	---	---
11N20SISO	Ant1	2462	17.323	2453.3284	2470.6514	---	---

Test Graphs

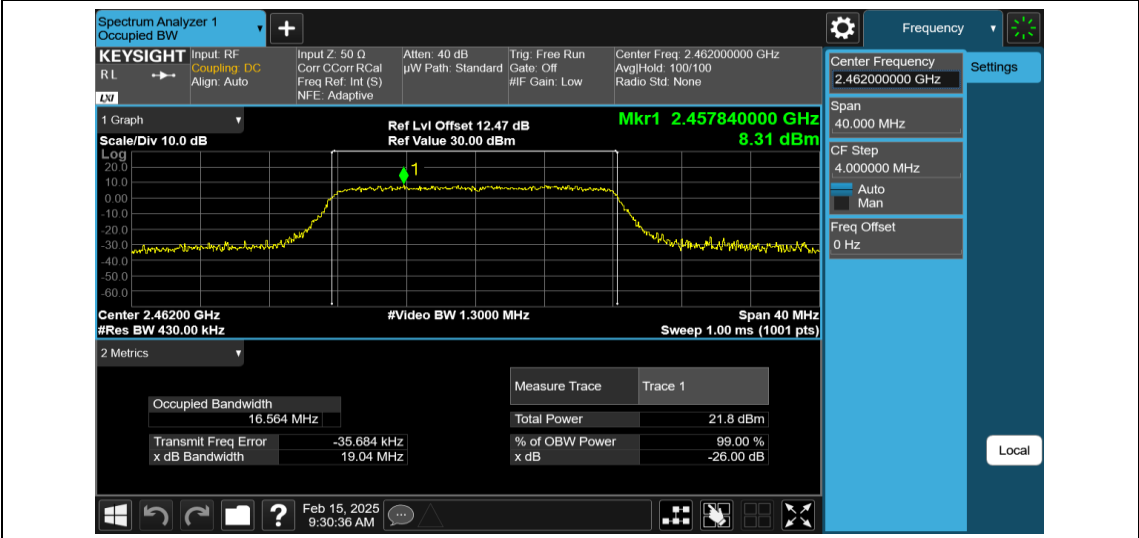




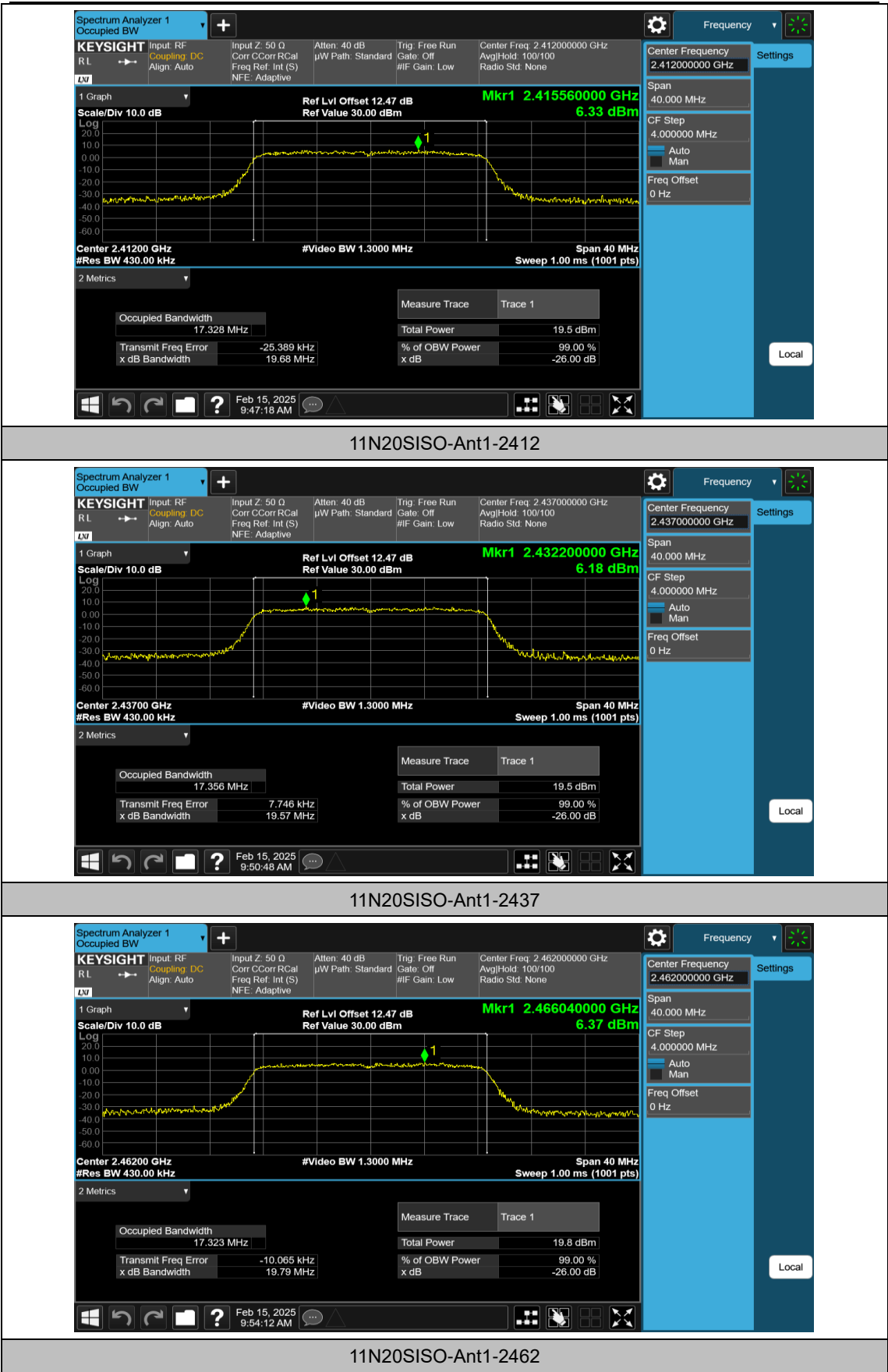
11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

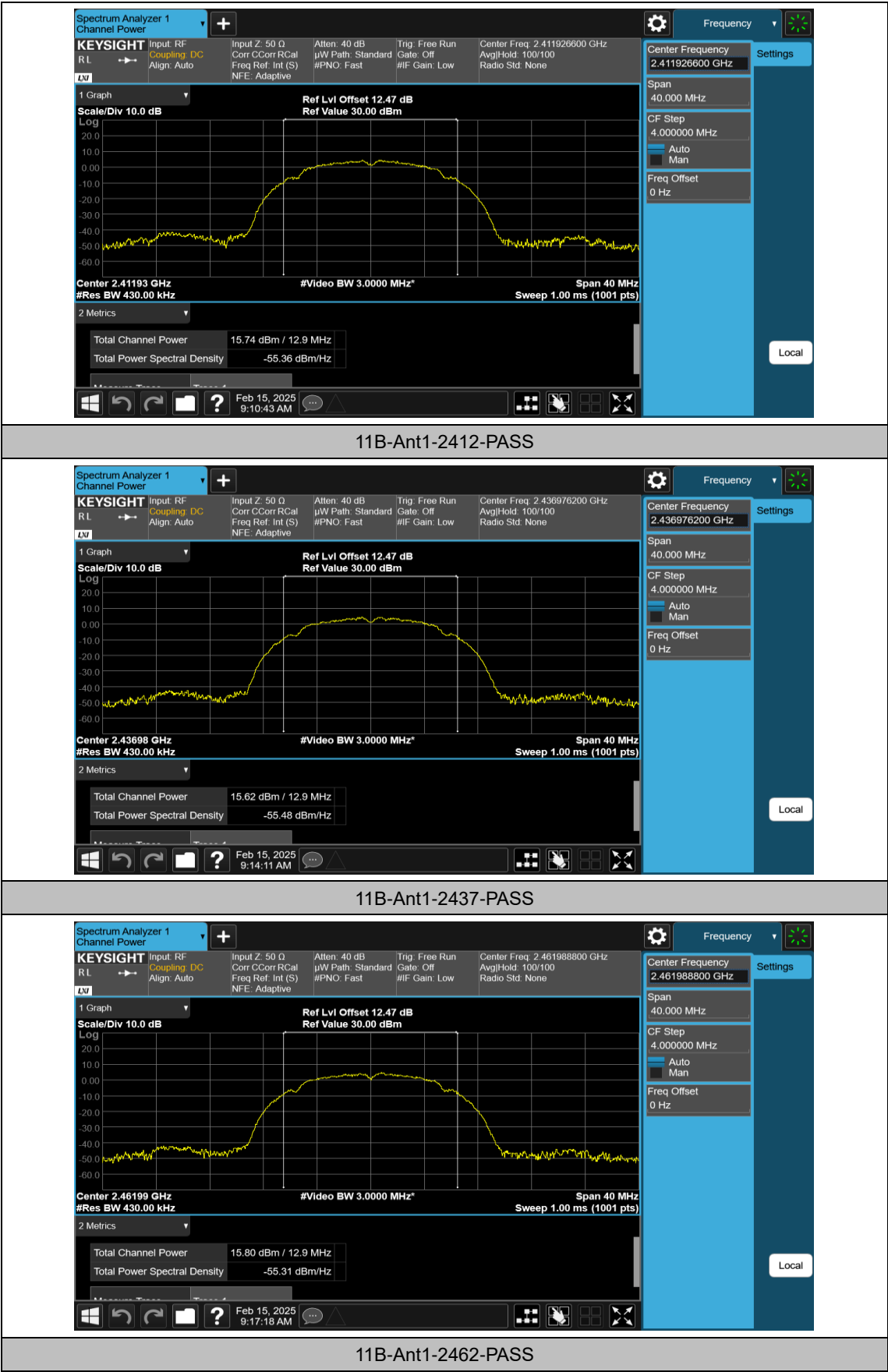


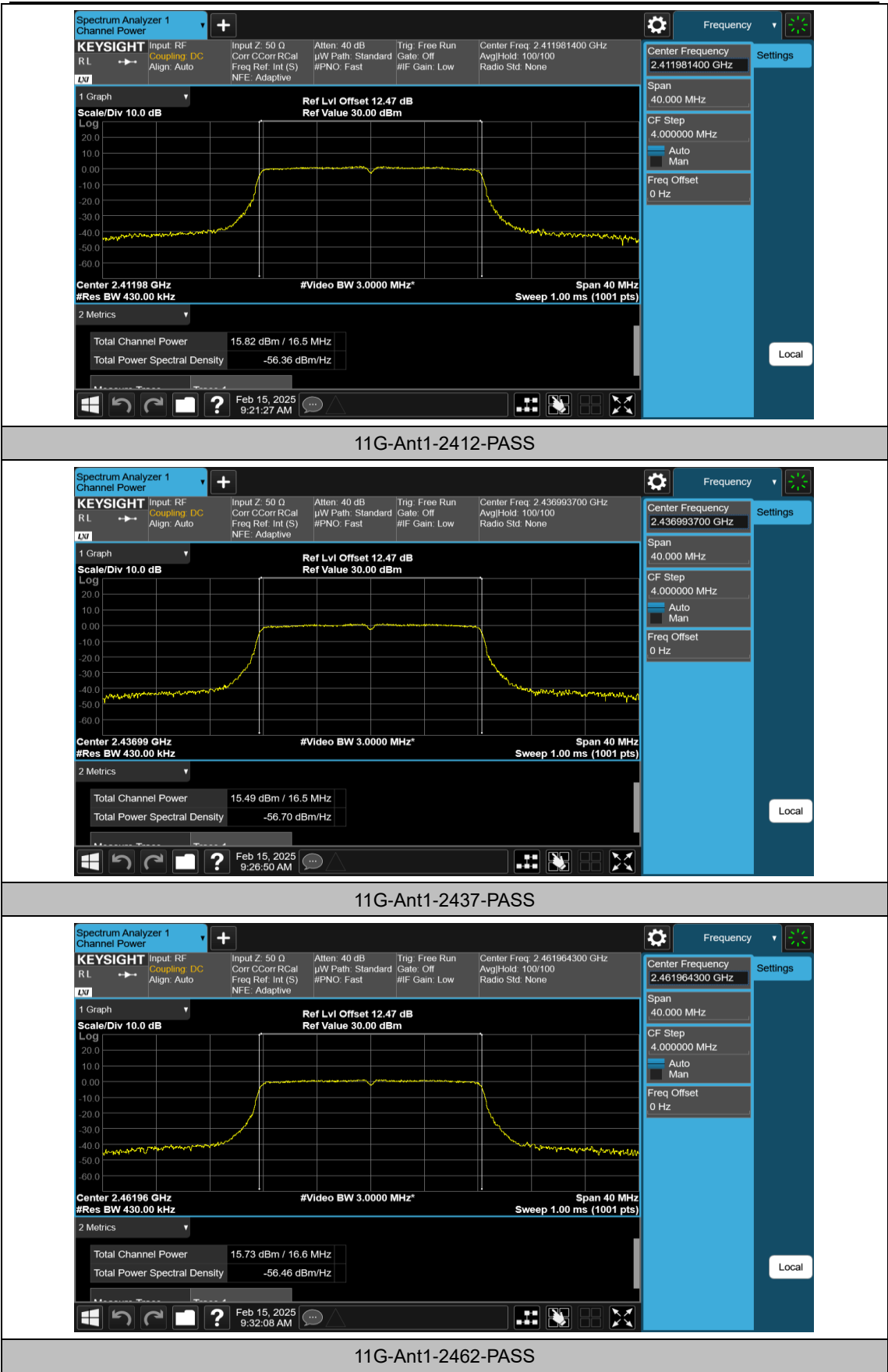
Maximum conducted output power

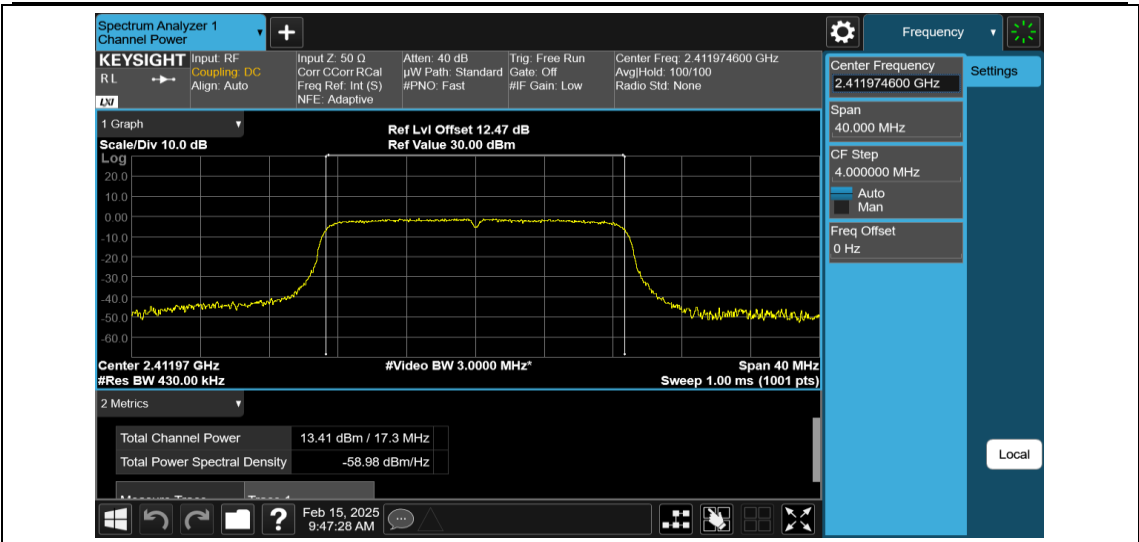
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	15.74	100.00	0.00	15.74	≤30.00	3.75	19.49	≤36.00	PASS
11B	Ant1	2437	15.62	100.00	0.00	15.62	≤30.00	3.75	19.37	≤36.00	PASS
11B	Ant1	2462	15.80	100.00	0.00	15.80	≤30.00	3.75	19.55	≤36.00	PASS
11G	Ant1	2412	15.82	99.64	0.02	15.84	≤30.00	3.75	19.59	≤36.00	PASS
11G	Ant1	2437	15.49	99.64	0.02	15.51	≤30.00	3.75	19.26	≤36.00	PASS
11G	Ant1	2462	15.73	99.64	0.02	15.75	≤30.00	3.75	19.50	≤36.00	PASS
11N20SISO	Ant1	2412	13.41	99.41	0.03	13.44	≤30.00	3.75	17.19	≤36.00	PASS
11N20SISO	Ant1	2437	13.36	99.41	0.03	13.39	≤30.00	3.75	17.14	≤36.00	PASS
11N20SISO	Ant1	2462	13.65	99.41	0.03	13.68	≤30.00	3.75	17.43	≤36.00	PASS

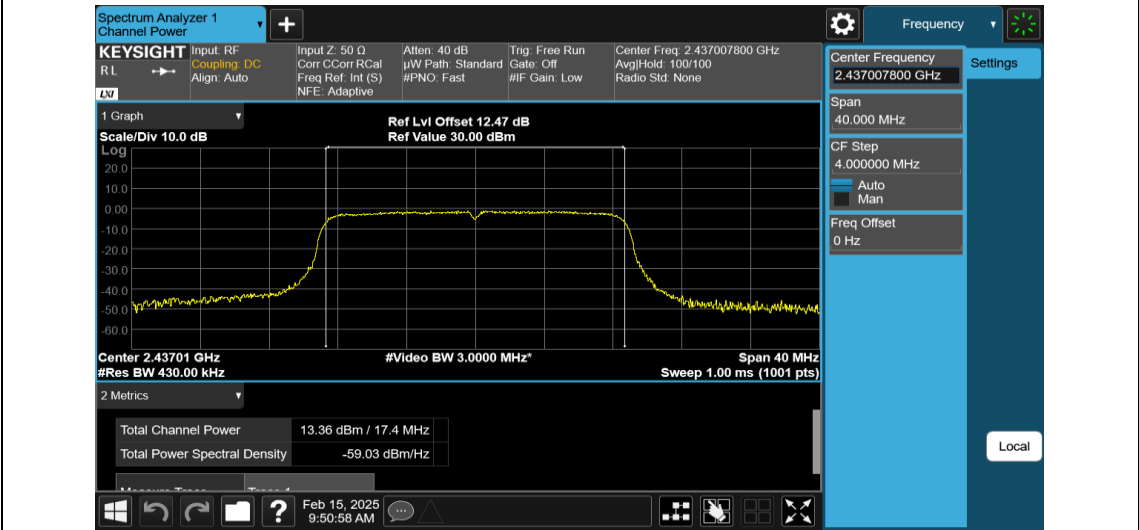
Test Graphs Average



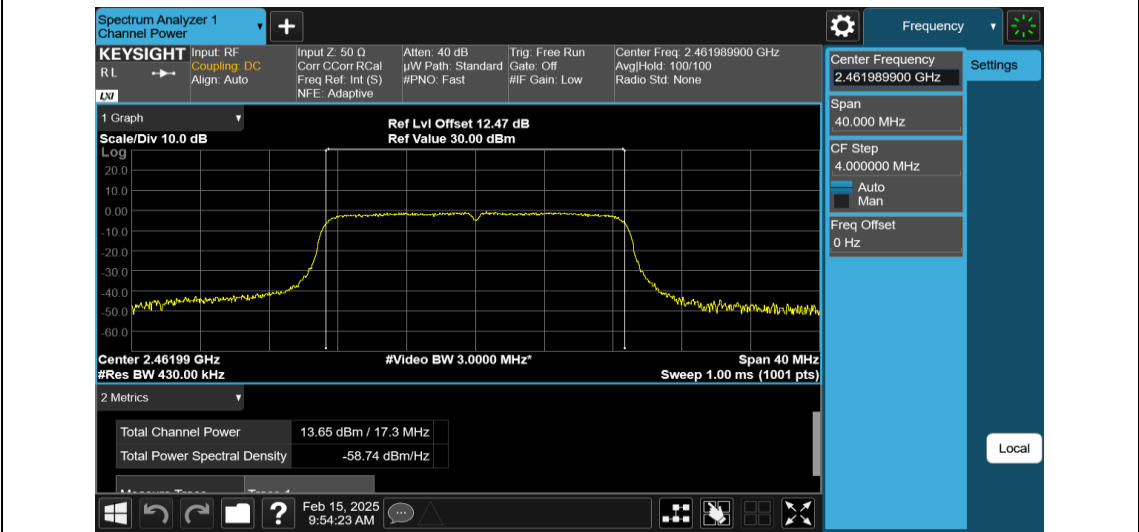




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

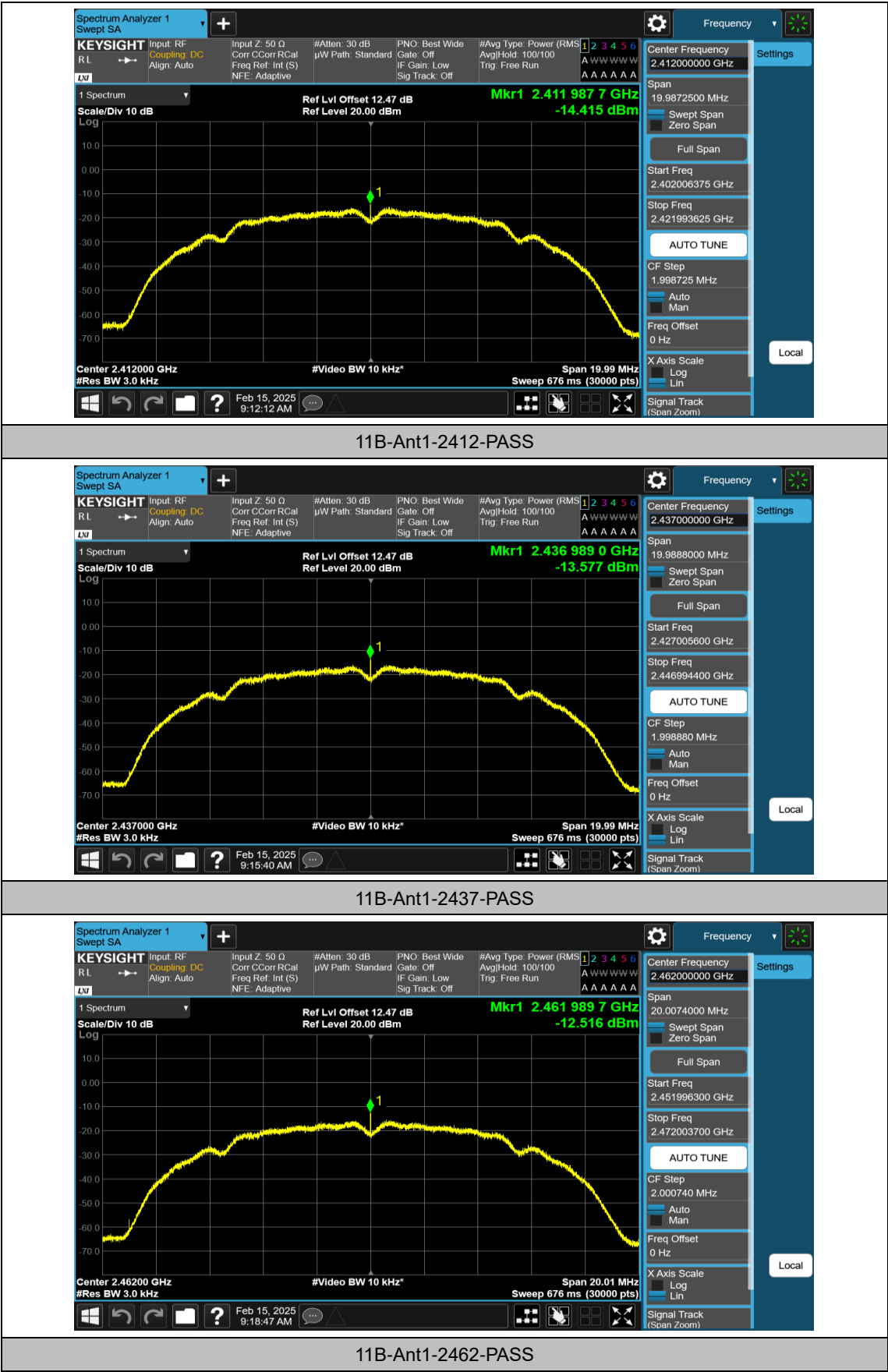
FCC ID: 2AV7A-FW06
IC: 26039- FW06

Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.42	≤8.00	PASS
11B	Ant1	2437	-13.58	≤8.00	PASS
11B	Ant1	2462	-12.52	≤8.00	PASS
11G	Ant1	2412	-15.09	≤8.00	PASS
11G	Ant1	2437	-13.46	≤8.00	PASS
11G	Ant1	2462	-12.89	≤8.00	PASS
11N20SISO	Ant1	2412	-18.81	≤8.00	PASS
11N20SISO	Ant1	2437	-18.26	≤8.00	PASS
11N20SISO	Ant1	2462	-18.65	≤8.00	PASS

Test Graphs



11B-Ant1-2412-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

Gate: Off

IF Gain: Low

Sig Track: Off

PNO: Best Wide

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

A W W W W W

A A A A A A

Center Frequency

2.43700000 GHz

Span

19.9888000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.427005600 GHz

Stop Freq

2.446994400 GHz

AUTO TUNE

CF Step

1.998880 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.436 989 0 GHz

-13.577 dBm

Center 2.437000 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz

Span 19.99 MHz

Sweep 676 ms (30000 pts)

Feb 15, 2025 9:15:40 AM

11B-Ant1-2437-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

Gate: Off

IF Gain: Low

Sig Track: Off

PNO: Best Wide

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

A W W W W W

A A A A A A

Center Frequency

2.46200000 GHz

Span

20.0074000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.451996300 GHz

Stop Freq

2.472003700 GHz

AUTO TUNE

CF Step

2.000740 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.461 989 7 GHz

-12.516 dBm

Center 2.46200 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz

Span 20.01 MHz

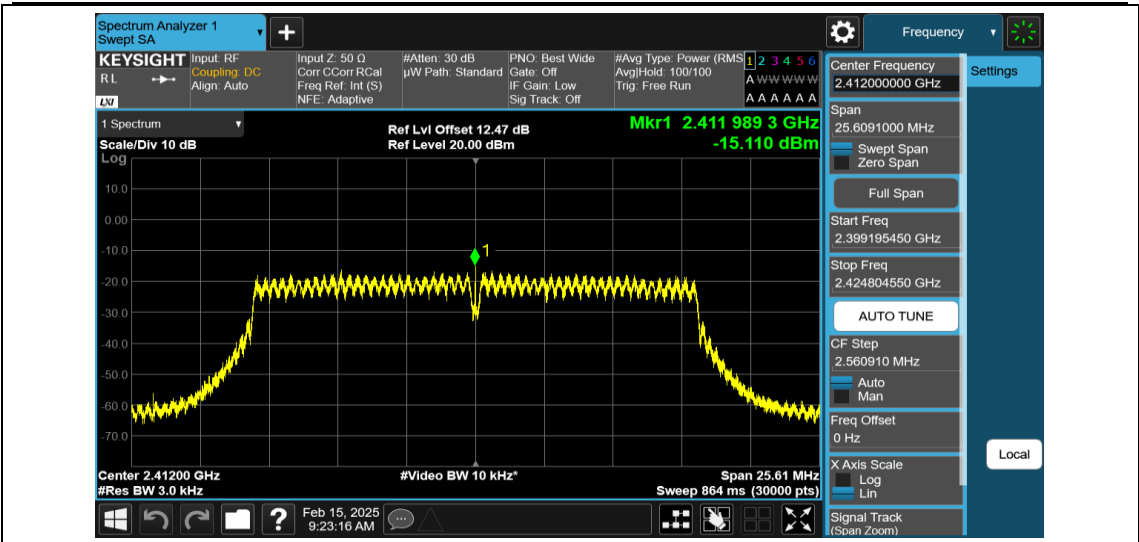
Sweep 676 ms (30000 pts)

Feb 15, 2025 9:18:47 AM

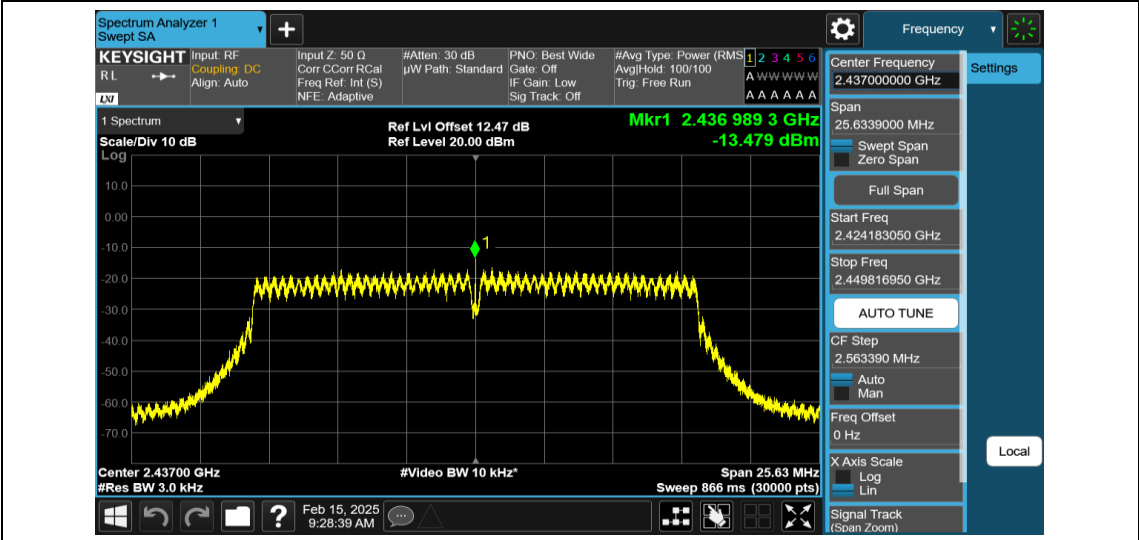
11B-Ant1-2462-PASS

FCC ID:2AV7A-FW06

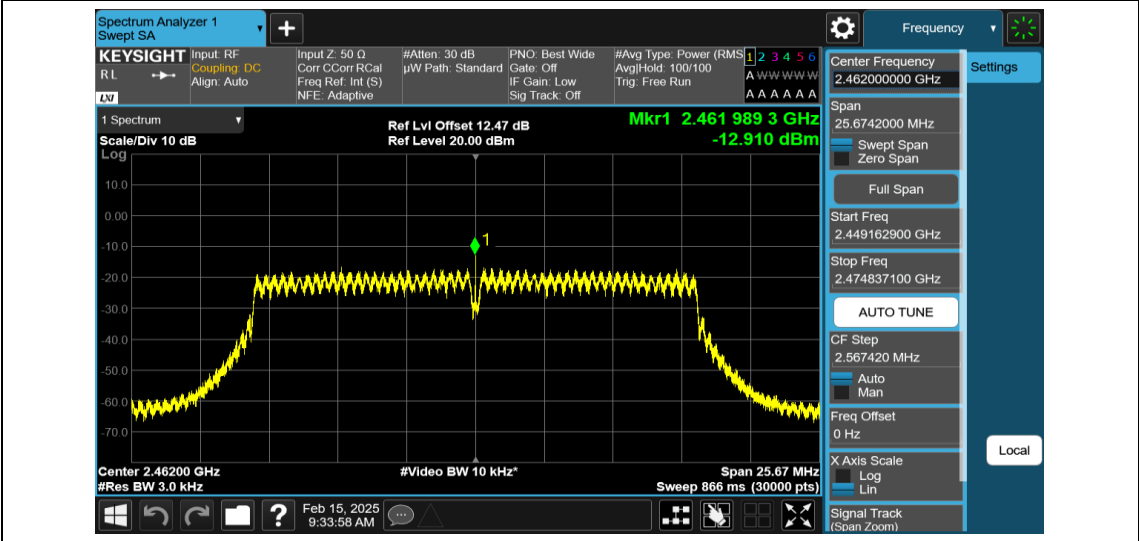
IC:26039- FW06



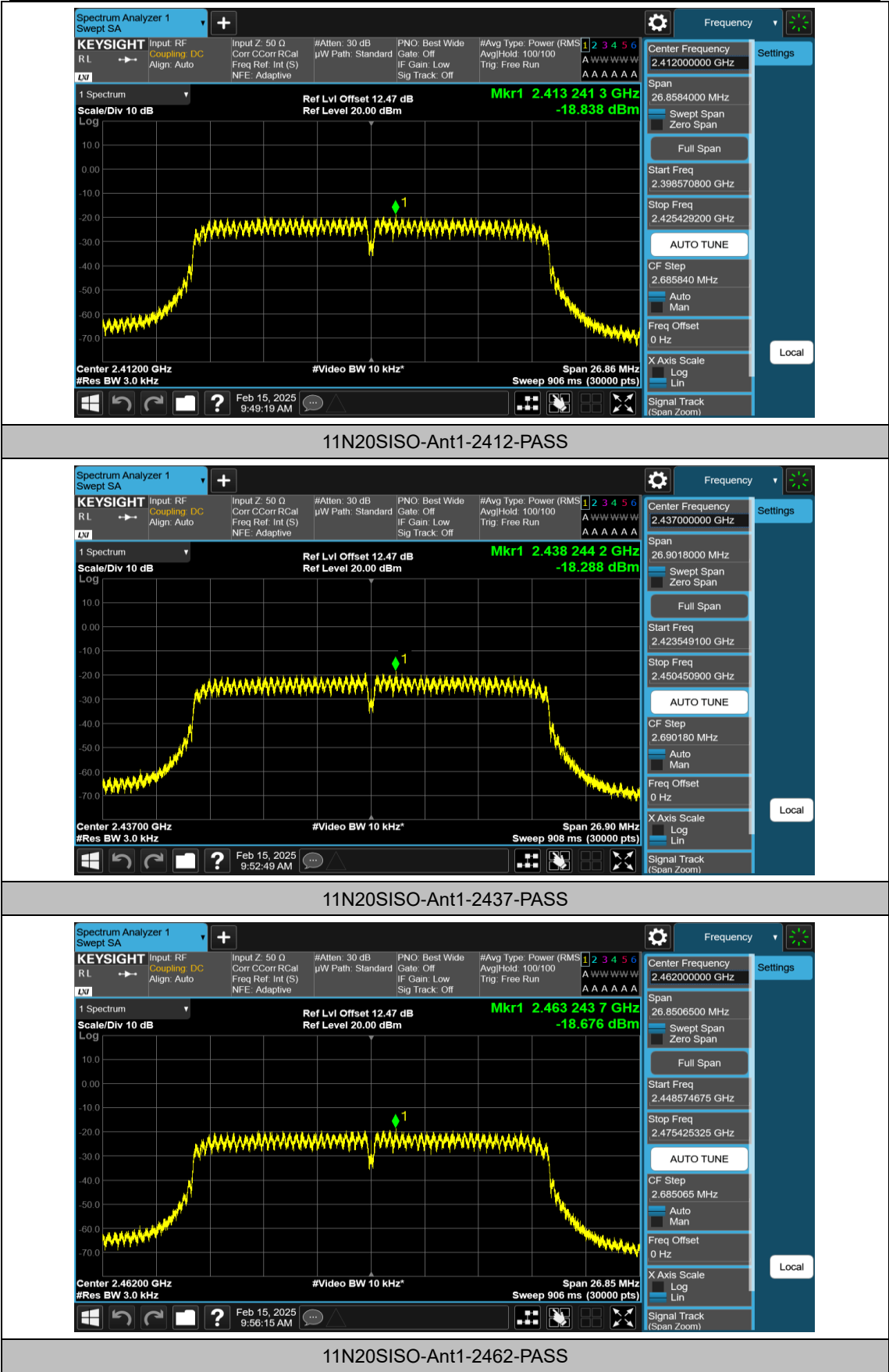
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: C

Corr: R

Cal: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

A W W W W W

A A A A A A

Center Frequency

2.43700000 GHz

Span

26.9018000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.423549100 GHz

Stop Freq

2.450450900 GHz

AUTO TUNE

CF Step

2.690180 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.438 244 2 GHz

-18.288 dBm

Center 2.43700 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz*

Span 26.90 MHz

Sweep 908 ms (30000 pts)

Feb 15, 2025

9:52:49 AM

11N20SISO-Ant1-2437-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: C

Corr: R

Cal: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

A W W W W W

A A A A A A

Center Frequency

2.46200000 GHz

Span

26.8506500 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.448574675 GHz

Stop Freq

2.475425325 GHz

AUTO TUNE

CF Step

2.685065 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.463 243 7 GHz

-18.676 dBm

Center 2.46200 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz*

Span 26.85 MHz

Sweep 906 ms (30000 pts)

Feb 15, 2025

9:56:15 AM

11N20SISO-Ant1-2462-PASS

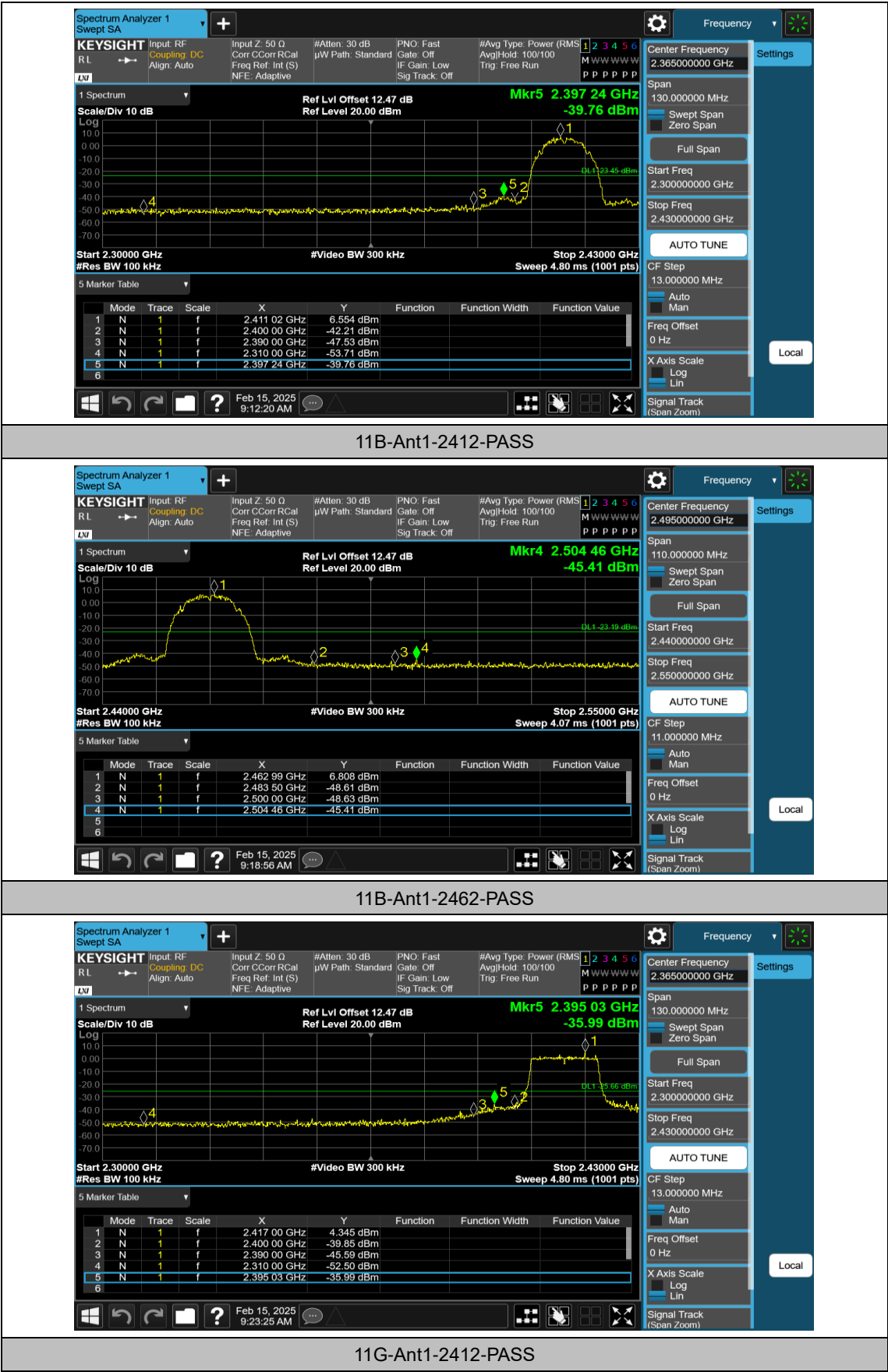
FCC ID: 2AV7A-FW06
IC: 26039- FW06

Band edge measurements

Test Result

TestMode	Antenna	Ch Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	6.55	-39.76	≤-23.45	PASS
11B	Ant1	High	2462	6.81	-45.41	≤-23.19	PASS
11G	Ant1	Low	2412	4.35	-35.99	≤-25.66	PASS
11G	Ant1	High	2462	4.14	-42.41	≤-25.86	PASS
11N20SISO	Ant1	Low	2412	1.58	-39.48	≤-28.42	PASS
11N20SISO	Ant1	High	2462	2.33	-45.96	≤-27.67	PASS

Test Graphs



11B-Ant1-2412-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: C Corr: R Cal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.495000000 GHz

Span

110.000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.440000000 GHz

Stop Freq

2.550000000 GHz

AUTO TUNE

CF Step

11.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr4 2.504 46 GHz

-45.41 dBm

Start 2.44000 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 2.55000 GHz

Sweep 4.07 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.462 99 GHz	6.808 dBm			
2	N	1	f	2.483 50 GHz	-48.61 dBm			
3	N	1	f	2.500 00 GHz	-48.63 dBm			
4	N	1	f	2.504 46 GHz	-45.41 dBm			
5								
6								

Feb 15, 2025

9:18:56 AM

11B-Ant1-2462-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: C Corr: R Cal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.365000000 GHz

Span

130.000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.300000000 GHz

Stop Freq

2.430000000 GHz

AUTO TUNE

CF Step

13.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr5 2.395 03 GHz

-35.99 dBm

Start 2.30000 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 2.43000 GHz

Sweep 4.80 ms (1001 pts)

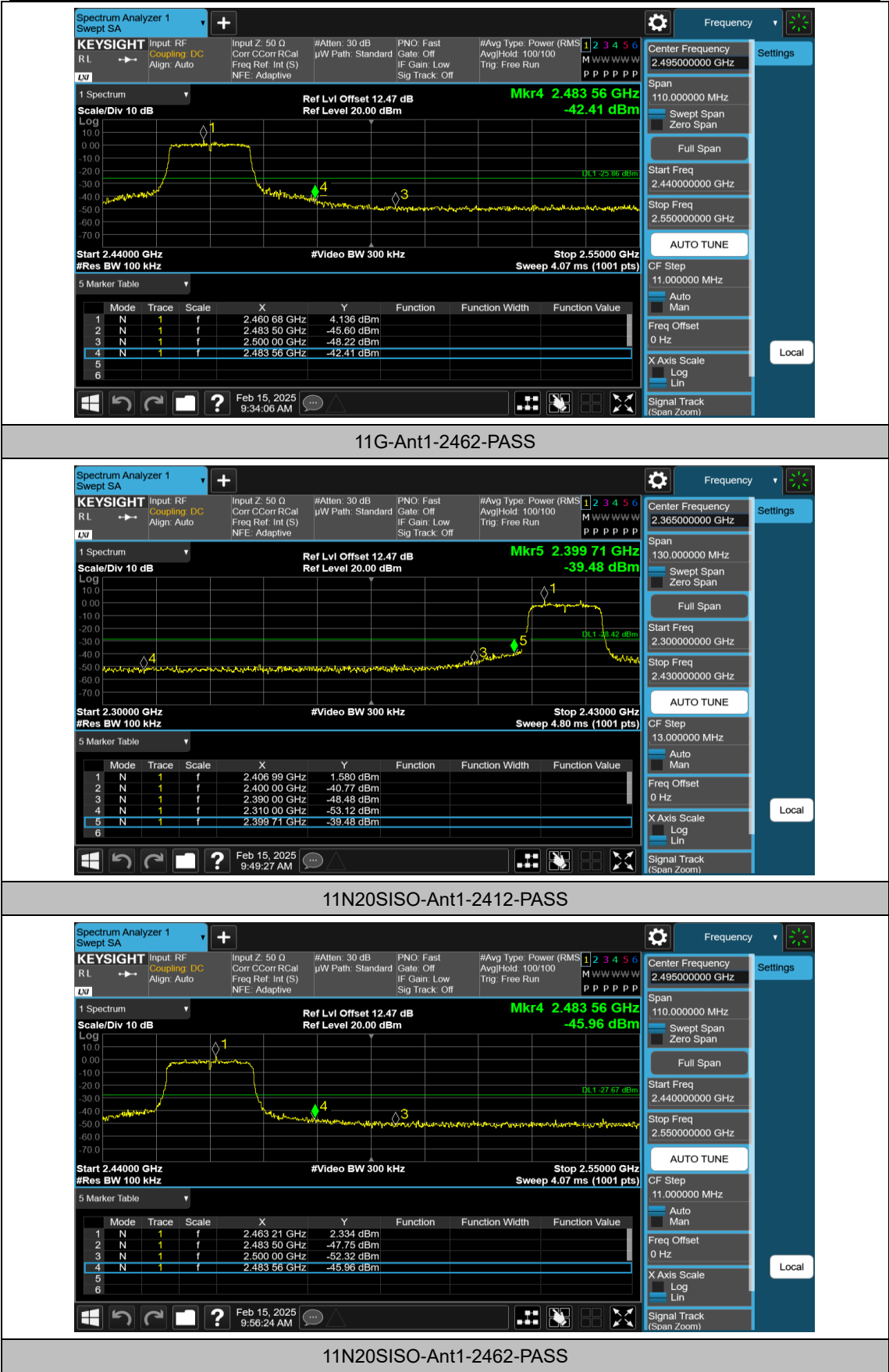
5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.417 00 GHz	4.345 dBm			
2	N	1	f	2.400 00 GHz	-39.85 dBm			
3	N	1	f	2.380 00 GHz	-45.59 dBm			
4	N	1	f	2.310 00 GHz	-52.50 dBm			
5	N	1	f	2.395 03 GHz	-35.99 dBm			
6								

Feb 15, 2025

9:23:25 AM

11G-Ant1-2412-PASS



11G-Ant1-2462-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr: RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.365000000 GHz

Span

130.000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.300000000 GHz

Stop Freq

2.430000000 GHz

AUTO TUNE

CF Step

13.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr5 2.399 71 GHz

-39.48 dBm

UL1 -48.42 dBm

Start 2.30000 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 2.43000 GHz

Sweep 4.80 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.406 99 GHz	1.580 dBm			
2	N	1	f	2.400 00 GHz	-40.77 dBm			
3	N	1	f	2.380 00 GHz	-48.48 dBm			
4	N	1	f	2.310 00 GHz	-53.12 dBm			
5	N	1	f	2.399 71 GHz	-39.48 dBm			
6								

Feb 15, 2025

9:49:27 AM

11N20SISO-Ant1-2412-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr: RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

2.495000000 GHz

Span

110.000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.440000000 GHz

Stop Freq

2.550000000 GHz

AUTO TUNE

CF Step

11.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr4 2.483 56 GHz

-45.96 dBm

UL1 -27.67 dBm

Start 2.44000 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 2.55000 GHz

Sweep 4.07 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.463 21 GHz	2.334 dBm			
2	N	1	f	2.483 50 GHz	-47.75 dBm			
3	N	1	f	2.500 00 GHz	-52.32 dBm			
4	N	1	f	2.483 56 GHz	-45.96 dBm			
5								
6								

Feb 15, 2025

9:56:24 AM

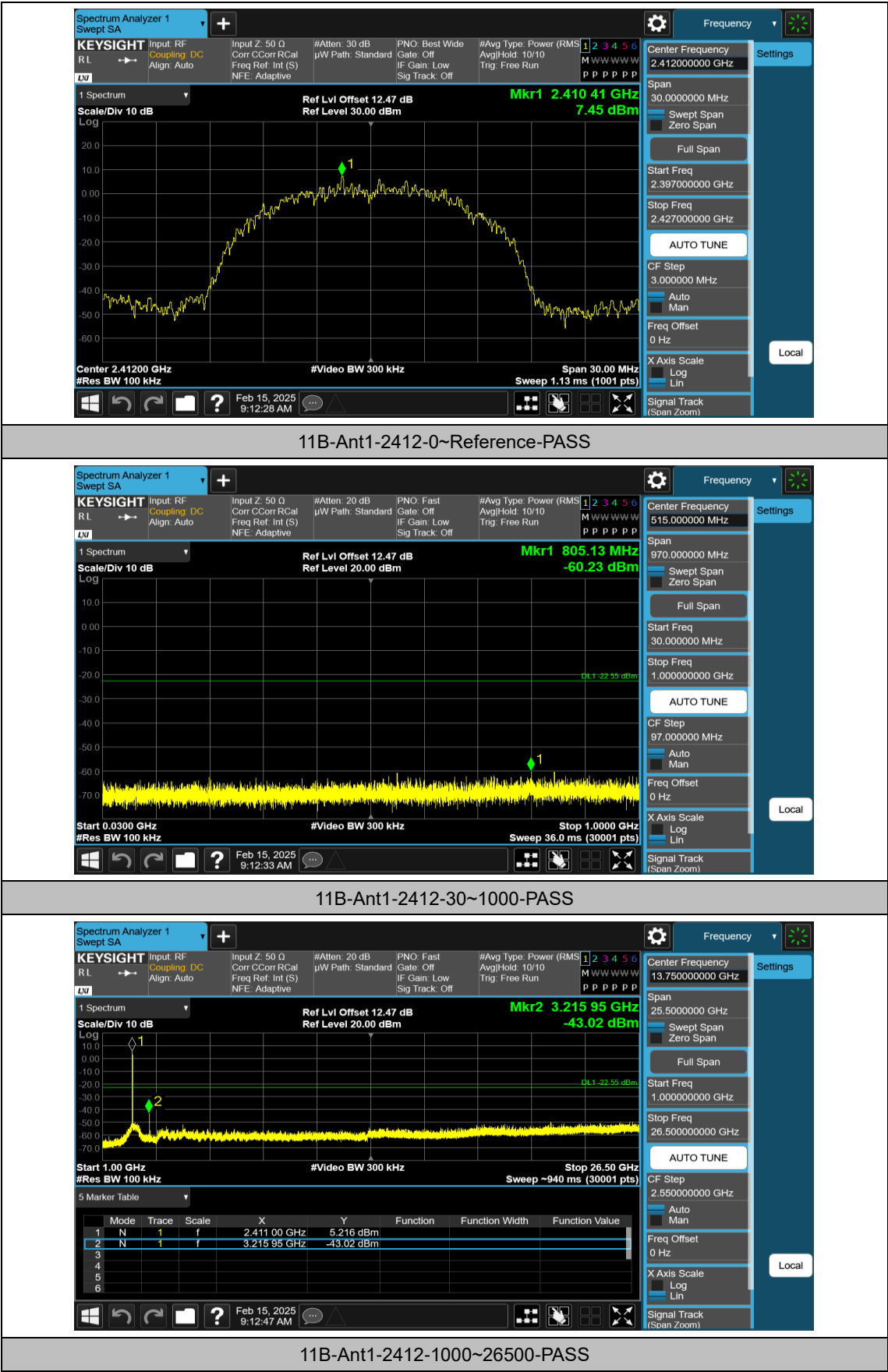
11N20SISO-Ant1-2462-PASS

Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	7.45	7.45	---	PASS
11B	Ant1	2412	30~1000	7.45	-60.23	≤-22.55	PASS
11B	Ant1	2412	1000~26500	7.45	-43.02	≤-22.55	PASS
11B	Ant1	2437	0~Reference	4.64	4.64	---	PASS
11B	Ant1	2437	30~1000	4.64	-61.36	≤-25.36	PASS
11B	Ant1	2437	1000~26500	4.64	-43.73	≤-25.36	PASS
11B	Ant1	2462	0~Reference	5.23	5.23	---	PASS
11B	Ant1	2462	30~1000	5.23	-61.63	≤-24.77	PASS
11B	Ant1	2462	1000~26500	5.23	-43.75	≤-24.77	PASS
11G	Ant1	2412	0~Reference	1.23	1.23	---	PASS
11G	Ant1	2412	30~1000	1.23	-61.73	≤-28.77	PASS
11G	Ant1	2412	1000~26500	1.23	-42.7	≤-28.77	PASS
11G	Ant1	2437	0~Reference	0.61	0.61	---	PASS
11G	Ant1	2437	30~1000	0.61	-61.84	≤-29.39	PASS
11G	Ant1	2437	1000~26500	0.61	-44.27	≤-29.39	PASS
11G	Ant1	2462	0~Reference	1.26	1.26	---	PASS
11G	Ant1	2462	30~1000	1.26	-61.16	≤-28.74	PASS
11G	Ant1	2462	1000~26500	1.26	-43.78	≤-28.74	PASS
11N20SISO	Ant1	2412	0~Reference	1.75	1.75	---	PASS
11N20SISO	Ant1	2412	30~1000	1.75	-62.2	≤-28.25	PASS
11N20SISO	Ant1	2412	1000~26500	1.75	-45.9	≤-28.25	PASS
11N20SISO	Ant1	2437	0~Reference	-1.68	-1.68	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.68	-60.85	≤-31.68	PASS
11N20SISO	Ant1	2437	1000~26500	-1.68	-46.17	≤-31.68	PASS
11N20SISO	Ant1	2462	0~Reference	-0.87	-0.87	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.87	-61.75	≤-30.87	PASS
11N20SISO	Ant1	2462	1000~26500	-0.87	-46.4	≤-30.87	PASS

Test Graphs



11B-Ant1-2412-0~Reference-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr C: Corr

R: RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 20 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 10/10

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

515.000000 MHz

Span

970.000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

30.0000000 MHz

Stop Freq

1.000000000 GHz

AUTO TUNE

CF Step

97.0000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 805.13 MHz

-60.23 dBm

Start 0.0300 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 1.0000 GHz

Sweep 36.0 ms (30001 pts)

Feb 15, 2025

9:12:33 AM

11B-Ant1-2412-30~1000-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr C: Corr

R: RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 20 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 10/10

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

13.75000000 GHz

Span

25.5000000 GHz

Swept Span

Zero Span

Full Span

Start Freq

1.000000000 GHz

Stop Freq

26.500000000 GHz

AUTO TUNE

CF Step

2.550000000 GHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr2 3.215 95 GHz

-43.02 dBm

Start 1.00 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 26.50 GHz

Sweep ~940 ms (30001 pts)

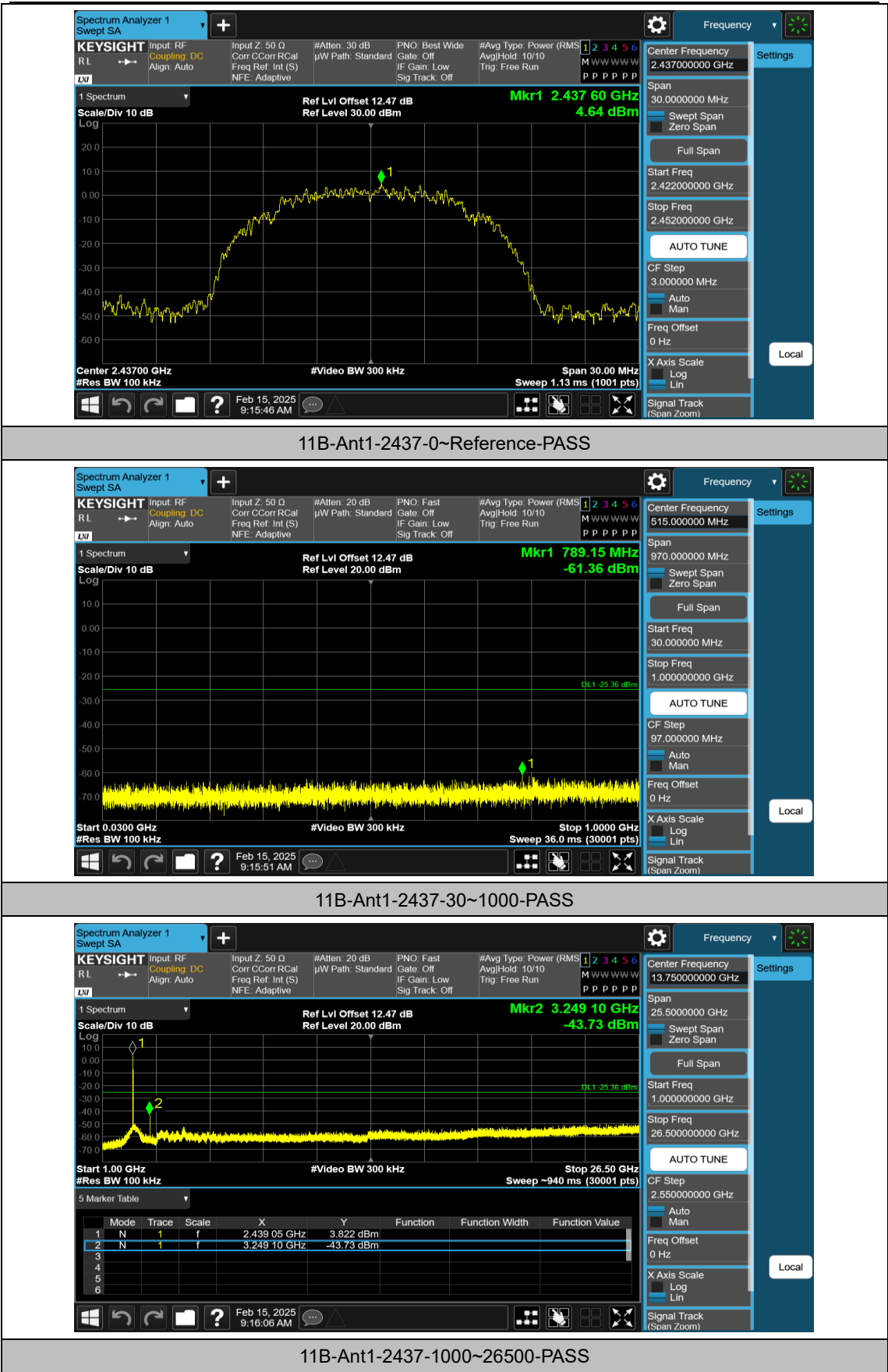
5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.411 00 GHz	5.216 dBm		
2	N	1	f	3.215 95 GHz	-43.02 dBm		
3							
4							
5							
6							

Feb 15, 2025

9:12:47 AM

11B-Ant1-2412-1000~26500-PASS



11B-Ant1-2437-0-Reference-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: C

Corr: R

Cal: Int (S)

NFE: Adaptive

#Atten: 20 dB

μ W Path: Standard

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 10/10

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

515.000000 MHz

Span

970.000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

30.0000000 MHz

Stop Freq

1.000000000 GHz

AUTO TUNE

CF Step

97.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 789.15 MHz

-61.36 dBm

Start 0.0300 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 1.0000 GHz

Sweep 36.0 ms (30001 pts)

Feb 15, 2025

9:15:51 AM

11B-Ant1-2437-30~1000-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: C

Corr: R

Cal: Int (S)

NFE: Adaptive

#Atten: 20 dB

μ W Path: Standard

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 10/10

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

13.75000000 GHz

Span

25.5000000 GHz

Swept Span

Zero Span

Full Span

Start Freq

1.000000000 GHz

Stop Freq

26.500000000 GHz

AUTO TUNE

CF Step

2.550000000 GHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr2 3.249 10 GHz

-43.73 dBm

Start 1.00 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 26.50 GHz

Sweep ~940 ms (30001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.439 05 GHz	3.822 dBm		
2	N	1	f	3.249 10 GHz	-43.73 dBm		
3							
4							
5							
6							

Feb 15, 2025

9:16:06 AM

11B-Ant1-2437-1000~26500-PASS