

FCC ID: 2A64B-DLX71

IC: 28593-DLX71

Maximum power spectral density

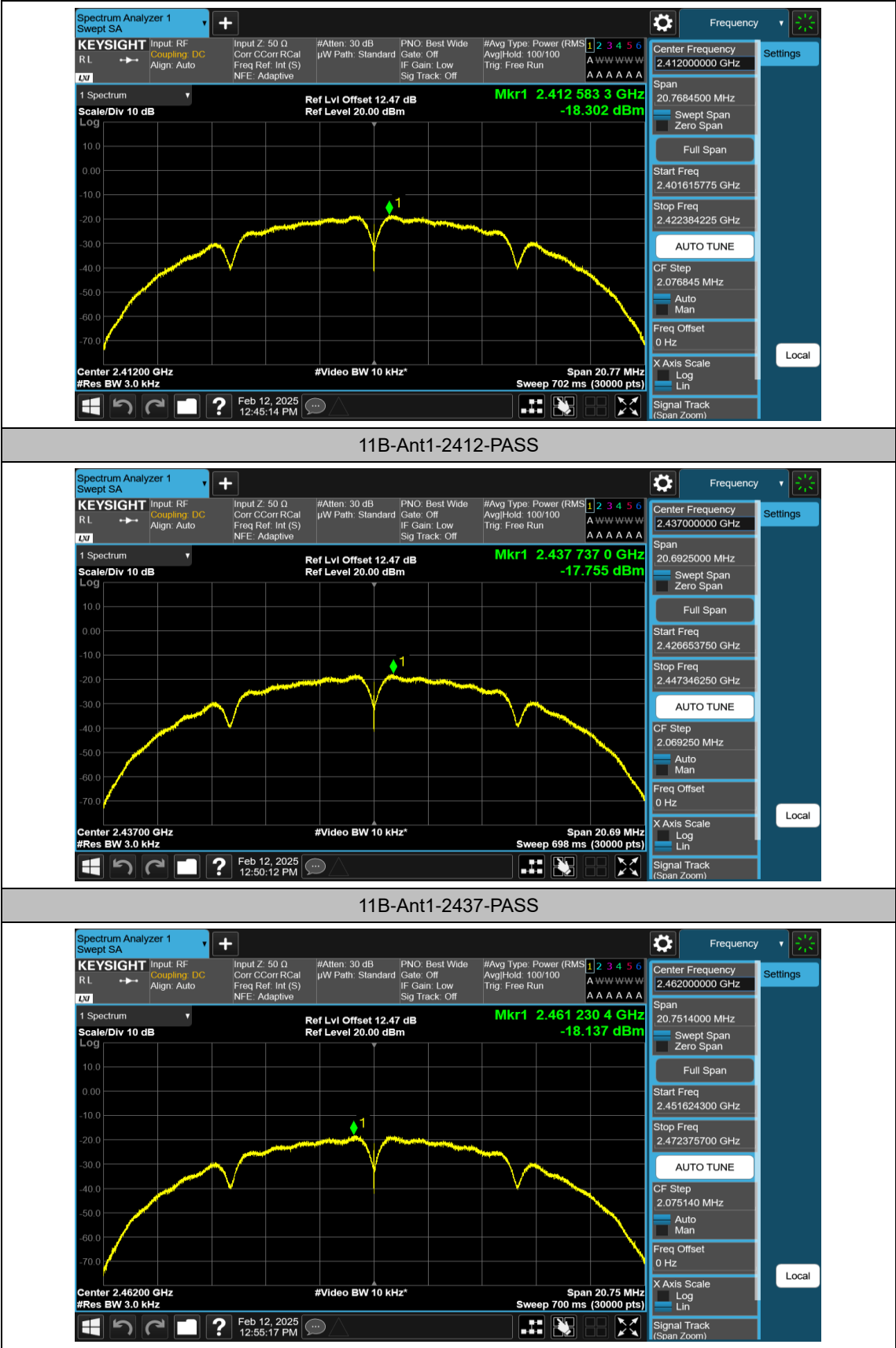
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.25	≤8.00	PASS
11B	Ant1	2437	-17.76	≤8.00	PASS
11B	Ant1	2462	-18.08	≤8.00	PASS
11G	Ant1	2412	-17.98	≤8.00	PASS
11G	Ant1	2437	-17.13	≤8.00	PASS
11G	Ant1	2462	-16.95	≤8.00	PASS
11N20SISO	Ant1	2412	-19.25	≤8.00	PASS
11N20SISO	Ant1	2437	-17.56	≤8.00	PASS
11N20SISO	Ant1	2462	-17.74	≤8.00	PASS
11N40SISO	Ant1	2422	-21.35	≤8.00	PASS
11N40SISO	Ant1	2437	-20.20	≤8.00	PASS
11N40SISO	Ant1	2452	-21.22	≤8.00	PASS

FCC ID:2A64B-DLX71

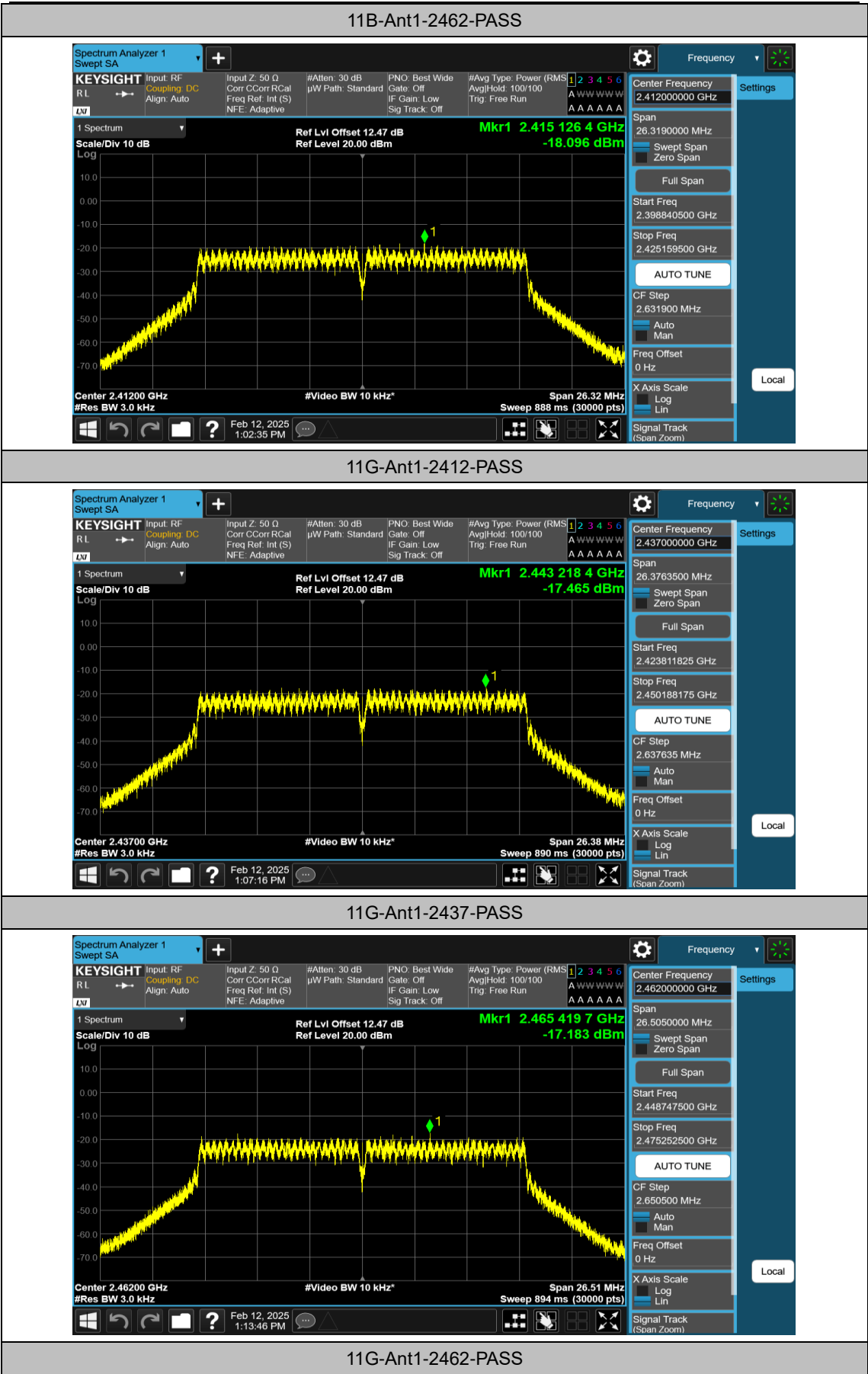
IC:28593-DLX71

Test Graphs



FCC ID:2A64B-DLX71

IC:28593-DLX71



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

Freq Ref: 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

26.3763500 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.423811825 GHz

Stop Freq

2.450188175 GHz

AUTO TUNE

CF Step

2.637635 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 2.443 218.4 GHz

-17.465 dBm

Center 2.43700 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz*

Span 26.38 MHz

Sweep 890 ms (30000 pts)

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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

Freq Ref: 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

26.5050000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.448747500 GHz

Stop Freq

2.475252500 GHz

AUTO TUNE

CF Step

2.650500 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 2.465 419.7 GHz

-17.183 dBm

Center 2.46200 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz*

Span 26.51 MHz

Sweep 894 ms (30000 pts)

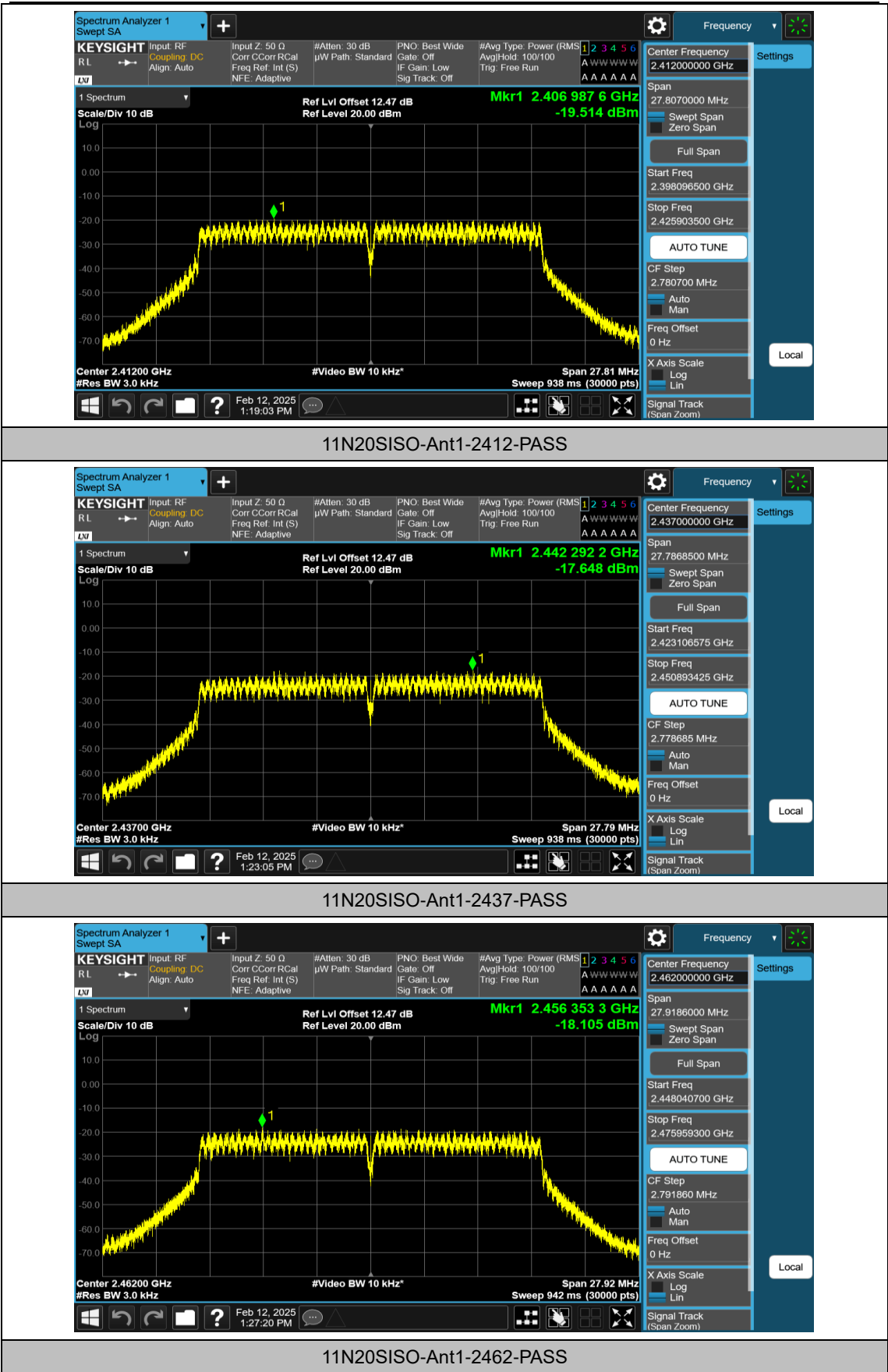
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11G-Ant1-2462-PASS

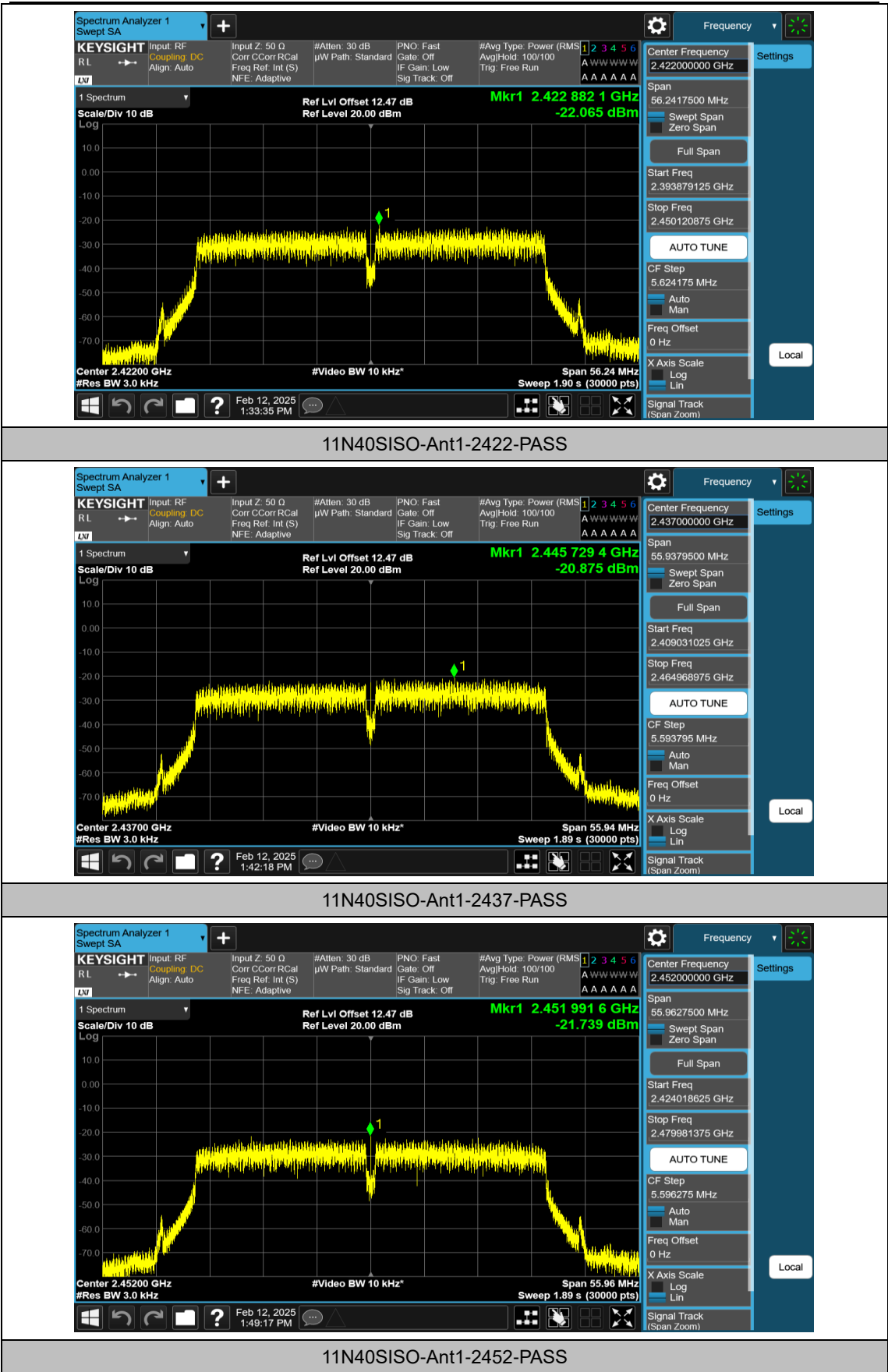
FCC ID:2A64B-DLX71

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FCC ID:2A64B-DLX71

IC:28593-DLX71



FCC ID: 2A64B-DLX71

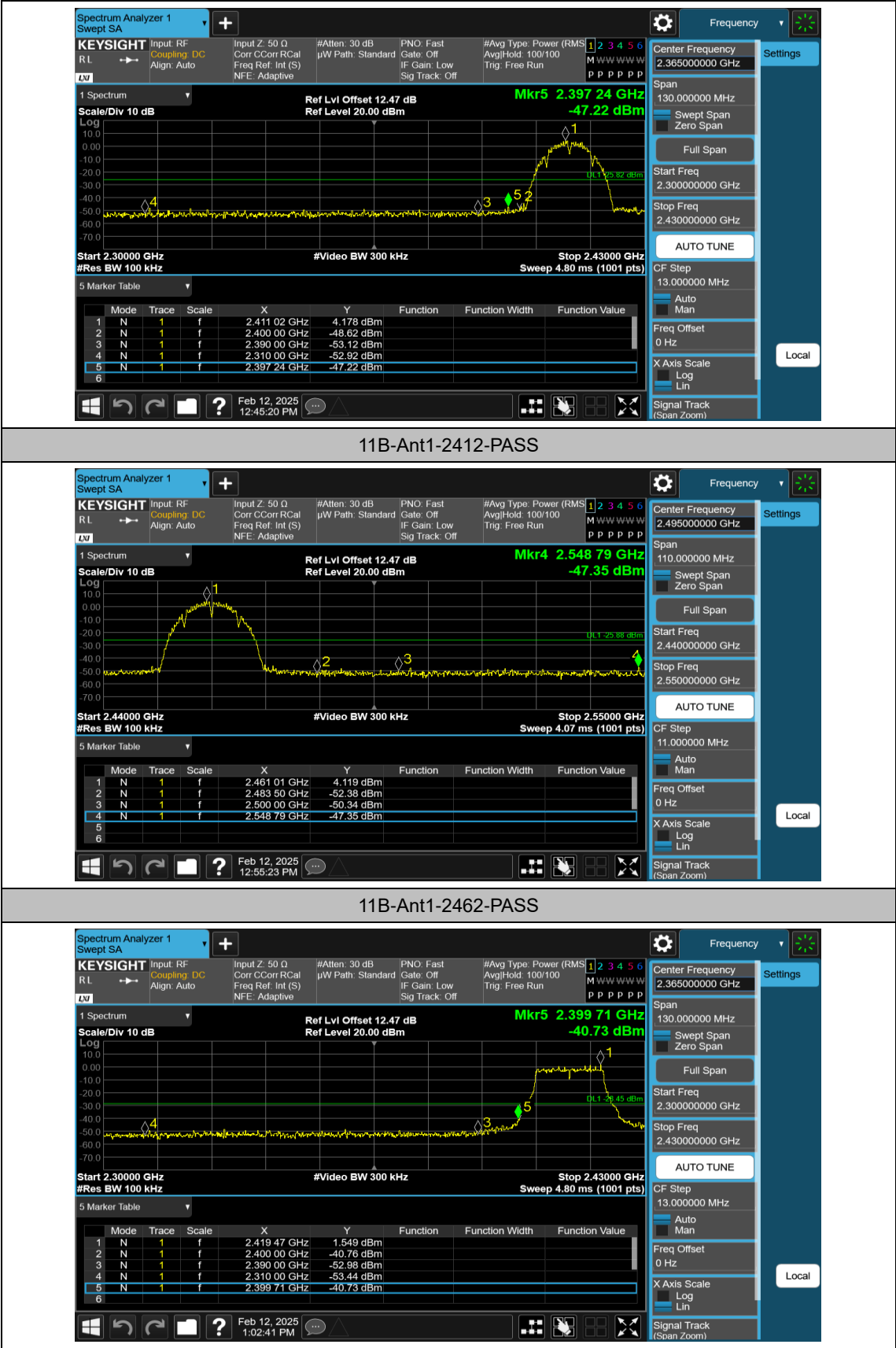
IC: 28593-DLX71

Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	4.18	-47.22	≤-25.82	PASS
11B	Ant1	High	2462	4.12	-47.35	≤-25.88	PASS
11G	Ant1	Low	2412	1.55	-40.73	≤-28.45	PASS
11G	Ant1	High	2462	-0.04	-47.32	≤-30.04	PASS
11N20SISO	Ant1	Low	2412	1.27	-39.13	≤-28.73	PASS
11N20SISO	Ant1	High	2462	1.77	-46.92	≤-28.23	PASS
11N40SISO	Ant1	Low	2422	-2.85	-40.87	≤-32.85	PASS
11N40SISO	Ant1	High	2452	-2.00	-47.62	≤-32	PASS

Test Graphs



11B-Ant1-2412-PASS

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input RF

Coupling DC

Align Auto

Input Z: 50 Ω

Corr C: Corr

R: 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

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr4 2.548 79 GHz

-47.35 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	2.461 01 GHz	4.119 dBm			
2	N	1	f	2.483 50 GHz	-52.38 dBm			
3	N	1	f	2.500 00 GHz	-50.34 dBm			
4	N	1	f	2.548 79 GHz	-47.35 dBm			
5								
6								

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11B-Ant1-2462-PASS

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input RF

Coupling DC

Align Auto

Input Z: 50 Ω

Corr C: Corr

R: 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

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr5 2.399 71 GHz

-40.73 dBm

Start 2.30000 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 2.43000 GHz

Sweep 4.80 ms (1001 pts)

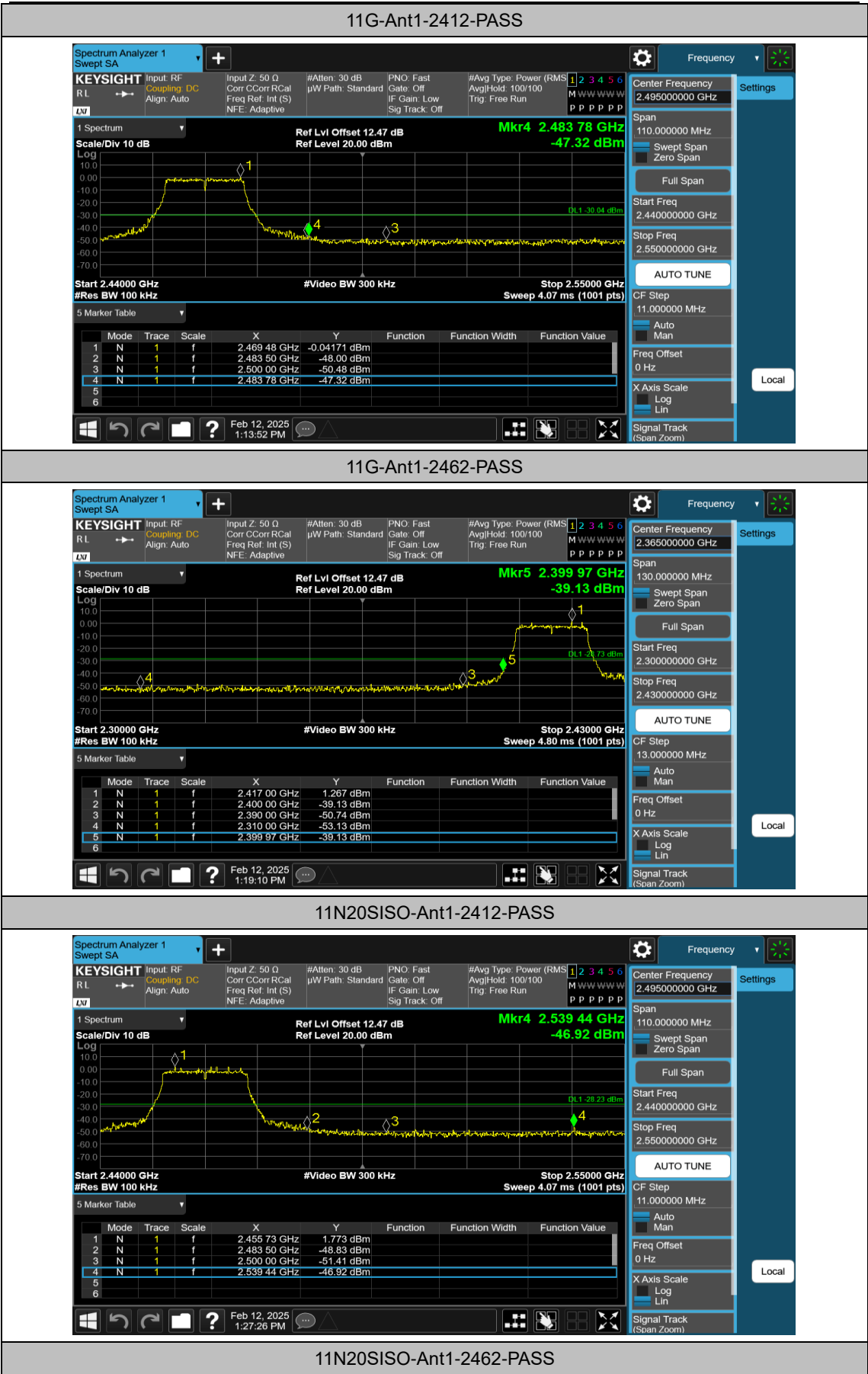
5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.419 47 GHz	1.549 dBm			
2	N	1	f	2.400 00 GHz	-40.76 dBm			
3	N	1	f	2.390 00 GHz	-52.98 dBm			
4	N	1	f	2.310 00 GHz	-53.44 dBm			
5	N	1	f	2.399 71 GHz	-40.73 dBm			
6								

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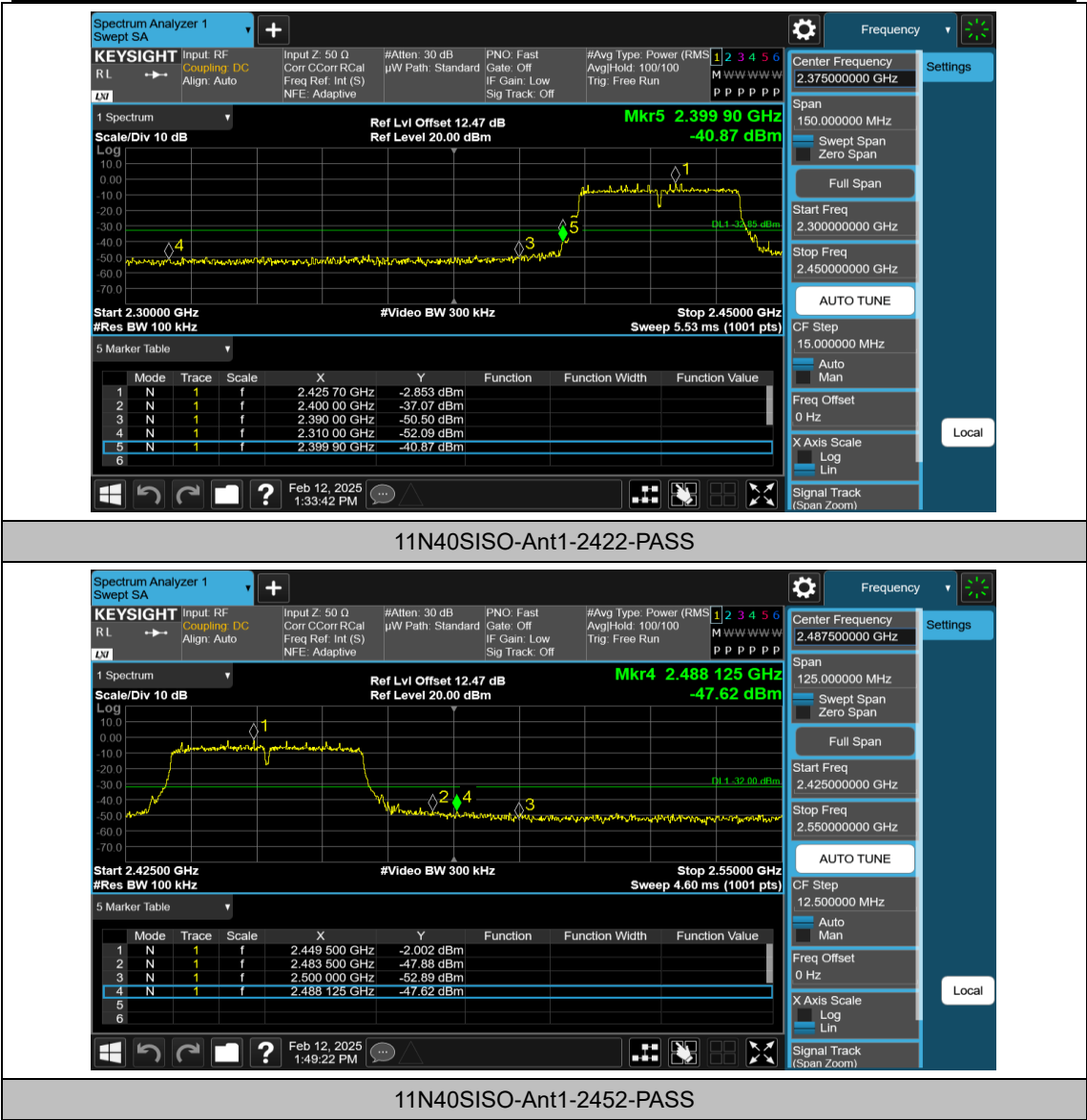
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FCC ID: 2A64B-DLX71
IC: 28593-DLX71



FCC ID:2A64B-DLX71

IC:28593-DLX71



11N40SISO-Ant1-2422-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

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr4 2.488 125 GHz

-47.62 dBm

Start 2.42500 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 2.55000 GHz

Sweep 4.60 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.449 500 GHz	-2.002 dBm			
2	N	1	f	2.483 500 GHz	-47.88 dBm			
3	N	1	f	2.500 000 GHz	-52.89 dBm			
4	N	1	f	2.488 125 GHz	-47.62 dBm			
5								
6								

Feb 12, 2025

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Frequency

Center Frequency

2.487500000 GHz

Span

125.000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

2.425000000 GHz

Stop Freq

2.550000000 GHz

AUTO TUNE

CF Step

12.500000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Settings

Local

11N40SISO-Ant1-2452-PASS

FCC ID: 2A64B-DLX71

IC: 28593-DLX71

Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.24	3.24	---	PASS
11B	Ant1	2412	30~1000	3.24	-60.74	≤-26.76	PASS
11B	Ant1	2412	1000~26500	3.24	-47.98	≤-26.76	PASS
11B	Ant1	2437	0~Reference	3.70	3.70	---	PASS
11B	Ant1	2437	30~1000	3.70	-60.96	≤-26.3	PASS
11B	Ant1	2437	1000~26500	3.70	-49.78	≤-26.3	PASS
11B	Ant1	2462	0~Reference	2.75	2.75	---	PASS
11B	Ant1	2462	30~1000	2.75	-60.9	≤-27.25	PASS
11B	Ant1	2462	1000~26500	2.75	-49.82	≤-27.25	PASS
11G	Ant1	2412	0~Reference	-1.59	-1.59	---	PASS
11G	Ant1	2412	30~1000	-1.59	-61.64	≤-31.59	PASS
11G	Ant1	2412	1000~26500	-1.59	-49.3	≤-31.59	PASS
11G	Ant1	2437	0~Reference	2.87	2.87	---	PASS
11G	Ant1	2437	30~1000	2.87	-61.27	≤-27.13	PASS
11G	Ant1	2437	1000~26500	2.87	-49.14	≤-27.13	PASS
11G	Ant1	2462	0~Reference	1.89	1.89	---	PASS
11G	Ant1	2462	30~1000	1.89	-61.3	≤-28.11	PASS
11G	Ant1	2462	1000~26500	1.89	-41.68	≤-28.11	PASS
11N20SISO	Ant1	2412	0~Reference	-2.03	-2.03	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.03	-60.48	≤-32.03	PASS
11N20SISO	Ant1	2412	1000~26500	-2.03	-47.74	≤-32.03	PASS
11N20SISO	Ant1	2437	0~Reference	2.75	2.75	---	PASS
11N20SISO	Ant1	2437	30~1000	2.75	-60.38	≤-27.25	PASS
11N20SISO	Ant1	2437	1000~26500	2.75	-49.18	≤-27.25	PASS
11N20SISO	Ant1	2462	0~Reference	-0.95	-0.95	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.95	-60.74	≤-30.95	PASS
11N20SISO	Ant1	2462	1000~26500	-0.95	-49.19	≤-30.95	PASS
11N40SISO	Ant1	2422	0~Reference	-3.74	-3.74	---	PASS
11N40SISO	Ant1	2422	30~1000	-3.74	-59.11	≤-33.74	PASS
11N40SISO	Ant1	2422	1000~26500	-3.74	-48.89	≤-33.74	PASS
11N40SISO	Ant1	2437	0~Reference	-3.32	-3.32	---	PASS
11N40SISO	Ant1	2437	30~1000	-3.32	-60.07	≤-33.32	PASS
11N40SISO	Ant1	2437	1000~26500	-3.32	-48.98	≤-33.32	PASS
11N40SISO	Ant1	2452	0~Reference	-4.46	-4.46	---	PASS
11N40SISO	Ant1	2452	30~1000	-4.46	-61.75	≤-34.46	PASS
11N40SISO	Ant1	2452	1000~26500	-4.46	-41.79	≤-34.46	PASS

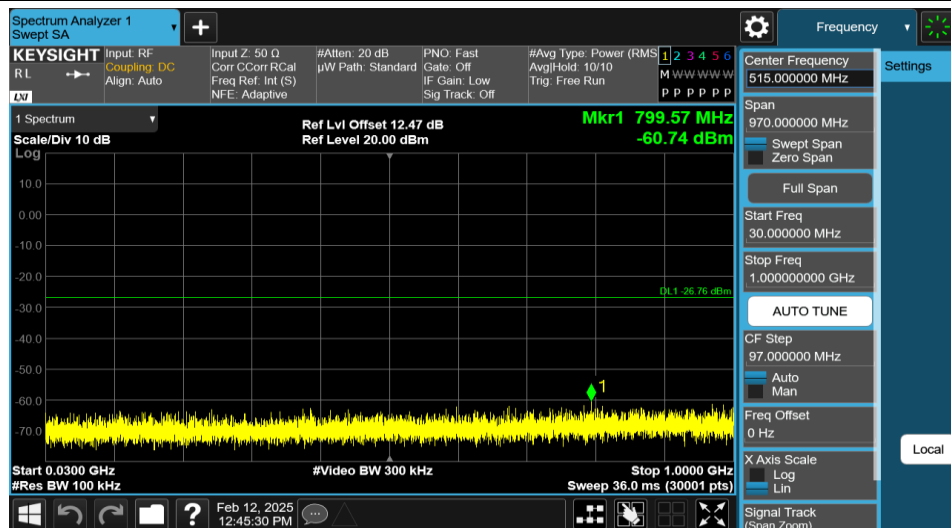
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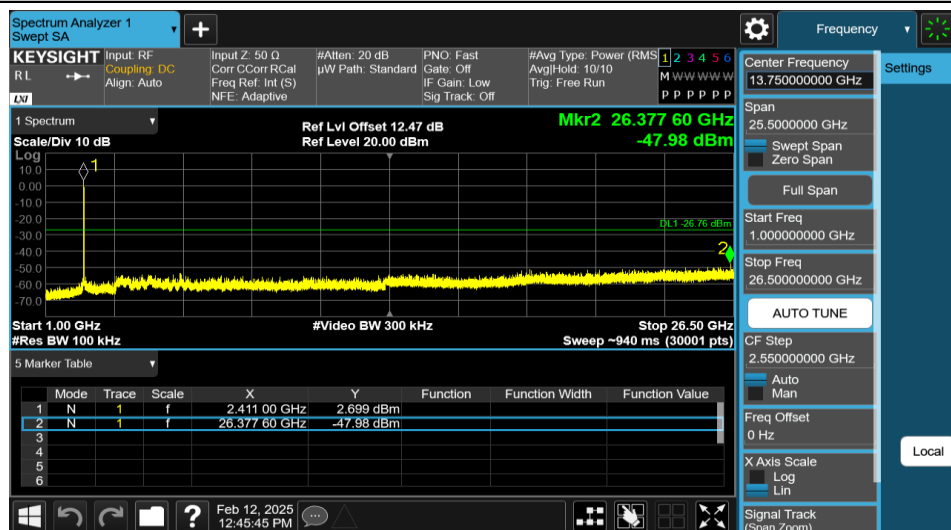
Test Graphs



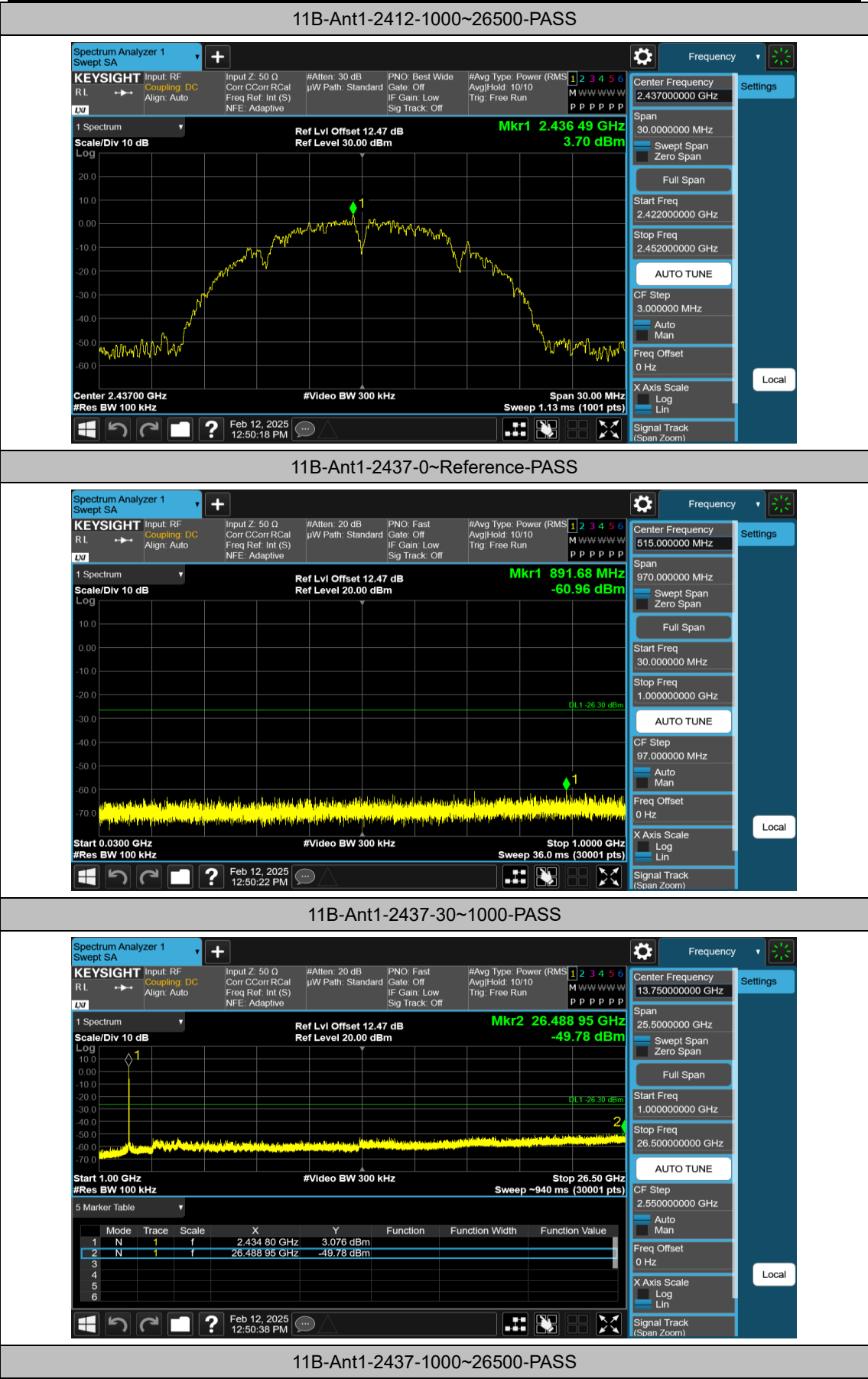
11B-Ant1-2412-0~Reference-PASS



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

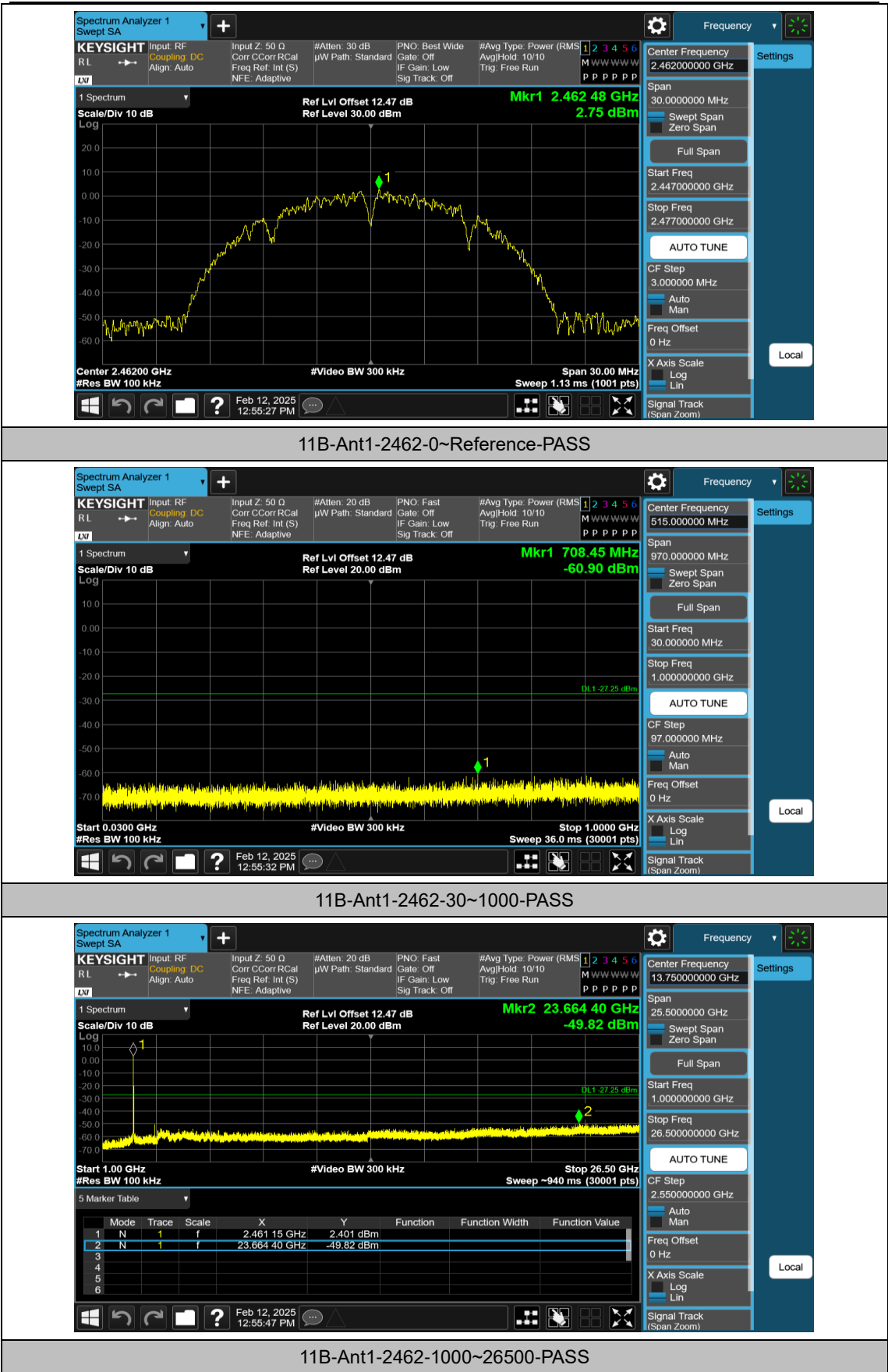


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