



11N40MIMO_Ant1_2452

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

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

2.452000000 GHz

Span

80.000000 MHz

Sweep Span

Zero Span

Full Span

Start Freq

2.412000000 GHz

Stop Freq

2.492000000 GHz

AUTO TUNE

CF Step

8.000000 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 11.71 dB

Ref Level 20.00 dBm

Δ Mkr3 35.28 MHz

1.44 dB

OL1 -11.86 dBm

Center 2.45200 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Span 80.00 MHz

Sweep 3.00 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.434 24 GHz	-11.39 dBm			
2	N	1	f	2.444 48 GHz	-5.86 dBm			
3	Δ 1	1	f (Δ)	35.28 MHz (Δ)	1.44 dB			
4								
5								
6								

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11N40MIMO_Ant2_2452

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

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

2.452000000 GHz

Span

80.000000 MHz

Sweep Span

Zero Span

Full Span

Start Freq

2.412000000 GHz

Stop Freq

2.492000000 GHz

AUTO TUNE

CF Step

8.000000 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 11.57 dB

Ref Level 20.00 dBm

Δ Mkr3 35.12 MHz

-0.22 dB

OL1 -12.78 dBm

Center 2.45200 GHz

#Res BW 100 kHz

#Video BW 300 kHz

Span 80.00 MHz

Sweep 3.00 ms (1001 pts)

5 Marker Table

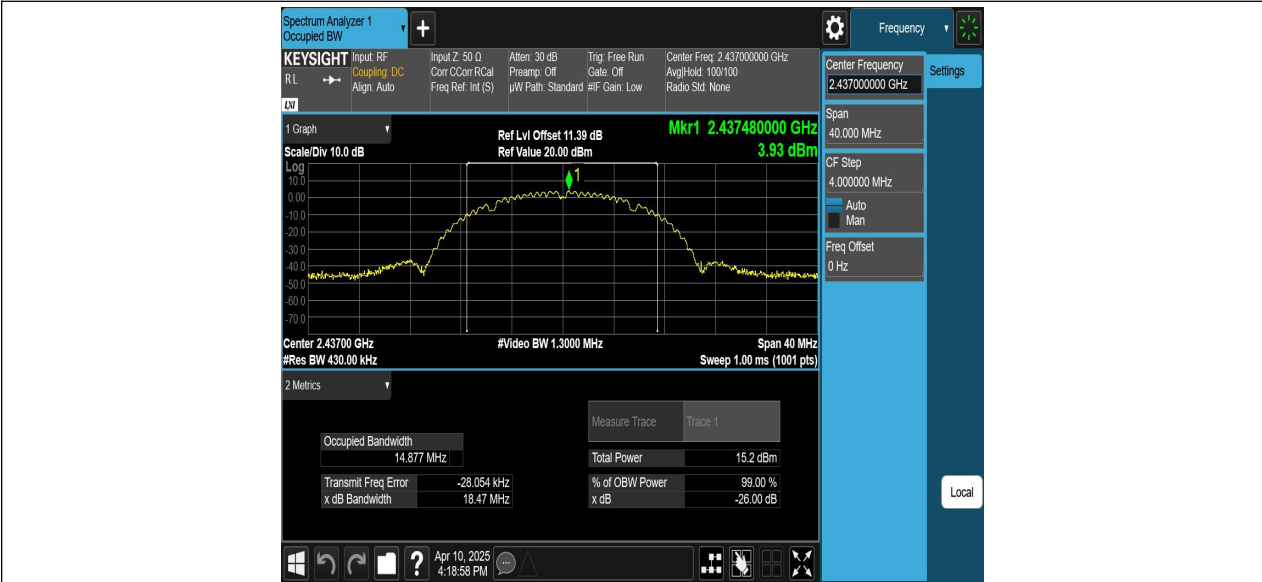
	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.434 40 GHz	-10.65 dBm			
2	N	1	f	2.449 44 GHz	-6.78 dBm			
3	Δ 1	1	f (Δ)	35.12 MHz (Δ)	-0.22 dB			
4								
5								
6								

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99 % bandwidth:





11B_Ant1_2462

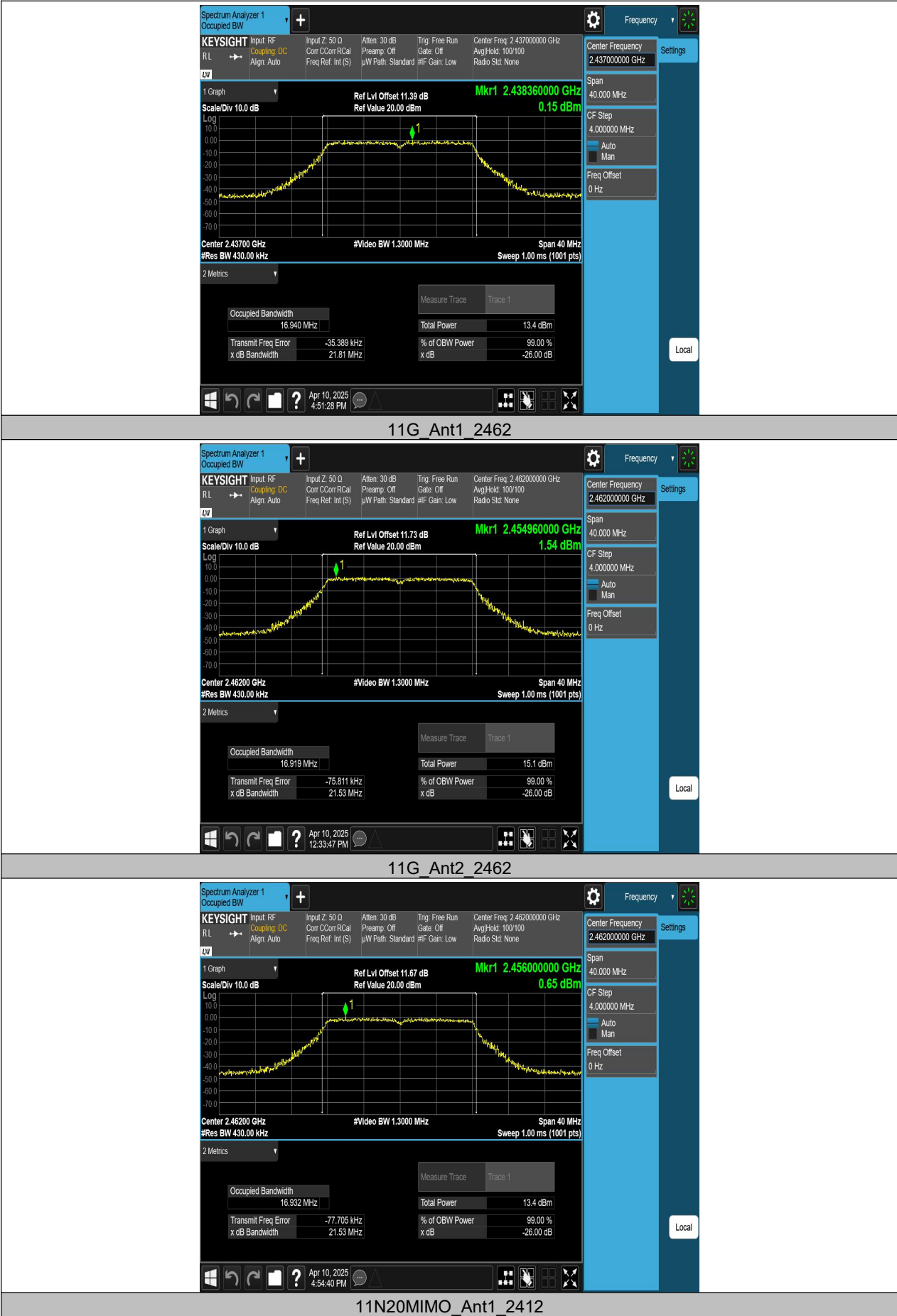


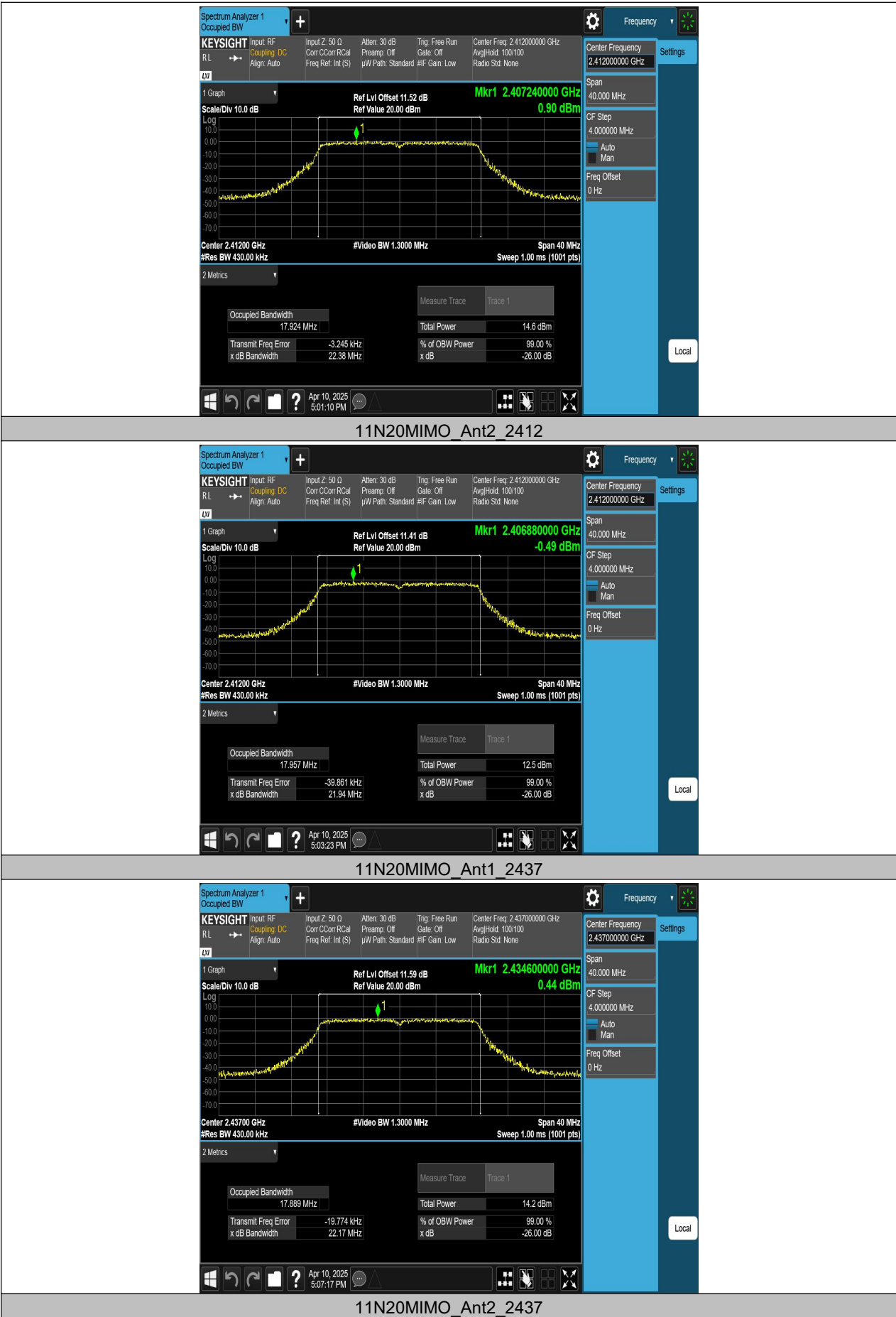
11B_Ant2_2462

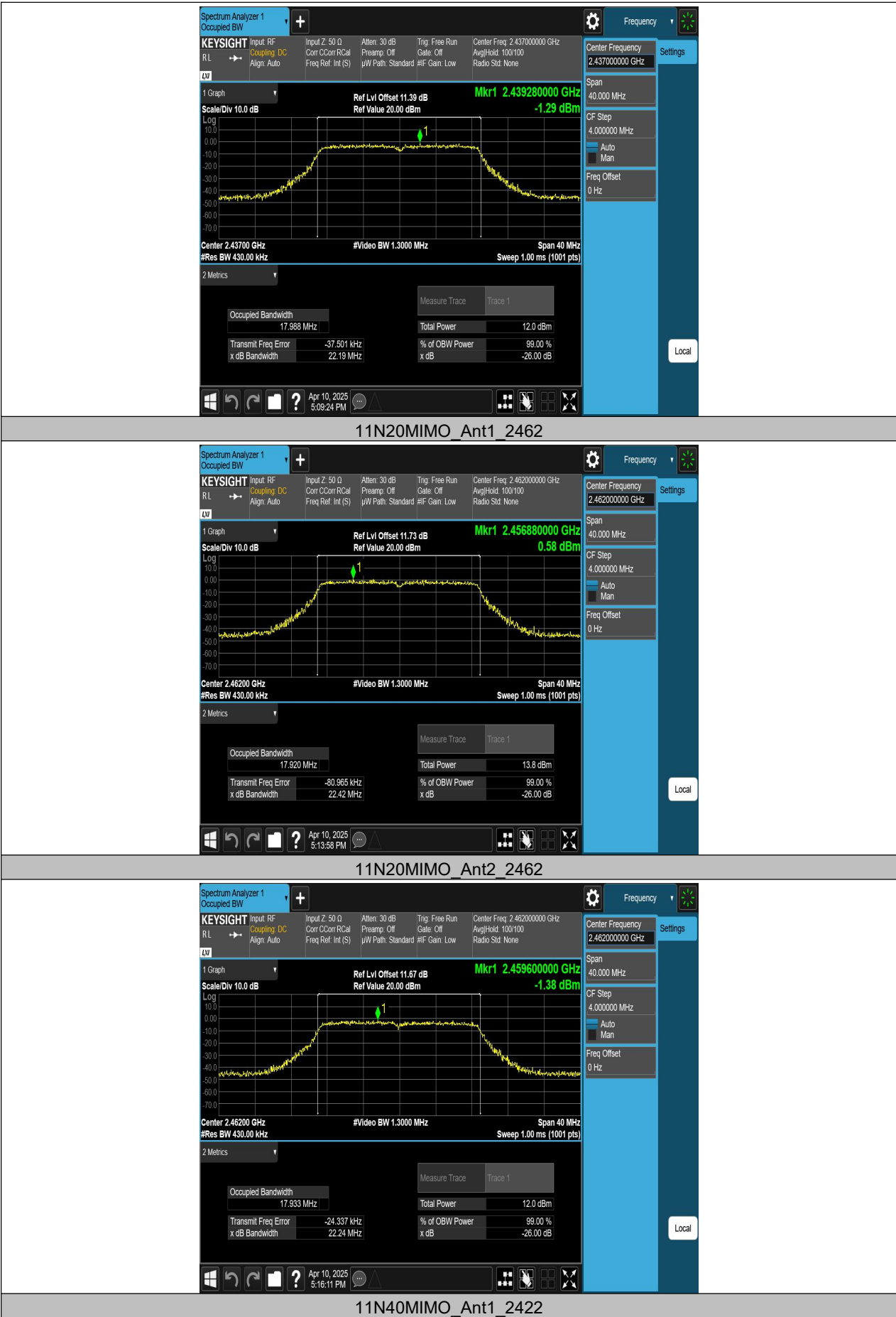


11G_Ant1_2412













10. Conducted Output Power

10.1. Block diagram of test setup

Same as section 8.1

10.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Output Power	1 watt or 30 dBm	2400-2483.5

10.3. Test Procedure

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure peak power each channel.

Peak Detector use for Peak result.

AVG Detector use for AVG result.

10.4. Results

Test Mode	Ant.	Freq. (MHz)	Peak Power (dBm)	Conducted Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
11B	Ant1	2412	17.86	≤30.00	18.34	≤36.00	PASS
	Ant2	2412	15.10	≤30.00	15.58	≤36.00	PASS
	Ant1	2437	17.85	≤30.00	18.33	≤36.00	PASS
	Ant2	2437	15.12	≤30.00	15.60	≤36.00	PASS
	Ant1	2462	17.33	≤30.00	17.81	≤36.00	PASS
	Ant2	2462	15.28	≤30.00	15.76	≤36.00	PASS
11G	Ant1	2412	16.16	≤30.00	16.64	≤36.00	PASS
	Ant2	2412	14.50	≤30.00	14.98	≤36.00	PASS
	Ant1	2437	16.10	≤30.00	16.58	≤36.00	PASS
	Ant2	2437	14.08	≤30.00	14.56	≤36.00	PASS
	Ant1	2462	15.84	≤30.00	16.32	≤36.00	PASS
	Ant2	2462	14.14	≤30.00	14.62	≤36.00	PASS
11N20MIMO	Ant1	2412	15.25	≤30.00	15.73	≤36.00	PASS
	Ant2	2412	13.21	≤30.00	13.69	≤36.00	PASS
	total	2412	17.36	≤30.00	17.84	≤36.00	PASS
	Ant1	2437	14.93	≤30.00	15.41	≤36.00	PASS
	Ant2	2437	12.49	≤30.00	12.97	≤36.00	PASS
	total	2437	16.89	≤30.00	17.37	≤36.00	PASS
	Ant1	2462	14.75	≤30.00	15.23	≤36.00	PASS
	Ant2	2462	12.62	≤30.00	13.10	≤36.00	PASS
11N40MIMO	total	2462	16.82	≤30.00	17.30	≤36.00	PASS
	Ant1	2422	15.23	≤30.00	15.71	≤36.00	PASS
	Ant2	2422	13.26	≤30.00	13.74	≤36.00	PASS
	total	2422	17.37	≤30.00	17.85	≤36.00	PASS
	Ant1	2437	15.15	≤30.00	15.63	≤36.00	PASS
	Ant2	2437	13.19	≤30.00	13.67	≤36.00	PASS
	total	2437	17.29	≤30.00	17.77	≤36.00	PASS
	Ant1	2452	15.16	≤30.00	15.64	≤36.00	PASS