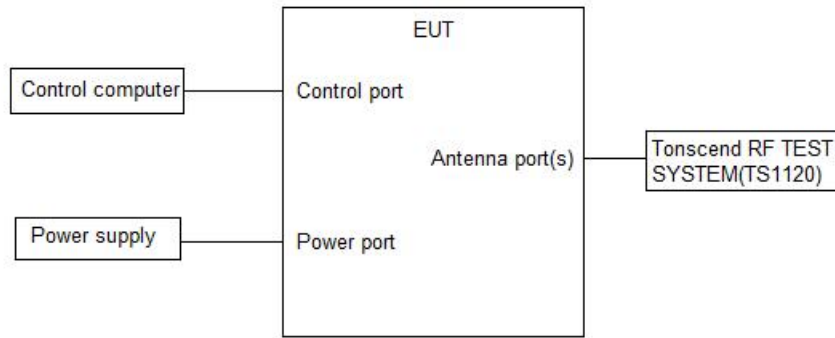


			NO AMP			
☒	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Sep. 06, 2024	Sep. 05, 2025
☒	3m Fully-anechoic Chamber	YIHENG	9m*6m*6m	001	Sep. 05, 2023	Sep. 04, 2026
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	TS+		V5.0.0.0	
Conducted Emission Test For AC Power Port						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	LISN	R&S	ENV216	102509	Aug. 22, 2024	Aug. 21, 2025
☒	EMI Receiver	R&S	ESR	102154	Aug. 22, 2024	Aug. 21, 2025
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	EZ	EZ-EMC		EMEC-3A1	
Other Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Temperature & Humidity	Temperature	HTC-1	/	Sep. 04, 2024	Sep. 03, 2025

8. On Time and Duty Cycle

8.1. Block diagram of test setup



8.2. Limits

None; for reporting purposes only

8.3. Procedure

KDB 558074 Zero-Span Spectrum Analyzer Method

8.4. Results

Test Mode	Ant.	Freq. (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)
11B	Ant1	2412	8.29	8.30	99.88
	Ant2	2412	8.29	8.30	99.88
	Ant1	2437	8.29	8.30	99.88
	Ant2	2437	8.29	8.30	99.88
	Ant1	2462	8.29	8.31	99.76
	Ant2	2462	8.29	8.30	99.88
11G	Ant1	2412	1.39	1.40	99.29
	Ant2	2412	1.39	1.40	99.29
	Ant1	2437	1.39	1.40	99.29
	Ant2	2437	1.39	1.41	98.58
	Ant1	2462	1.39	1.41	98.58
	Ant2	2462	1.39	1.40	99.29
11N20MIMO	Ant1	2412	1.30	1.31	99.24
	Ant2	2412	1.30	1.31	99.24
	Ant1	2437	1.30	1.32	98.48
	Ant2	2437	1.30	1.31	99.24
	Ant1	2462	1.30	1.32	98.48
	Ant2	2462	1.30	1.32	98.48
11N40MIMO	Ant1	2422	0.65	0.66	98.48
	Ant2	2422	0.65	0.66	98.48
	Ant1	2437	0.64	0.66	96.97
	Ant2	2437	0.65	0.66	98.48
	Ant1	2452	0.65	0.66	98.48
	Ant2	2452	0.65	0.66	98.48

Note: Duty Cycle Correction Factor = $10\log(1/x)$.

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer, then the next higher value should be used.

For mode 11b, the duty cycle is greater than 98 %, so it can set VBW to 10 Hz.

8.5. Original test data





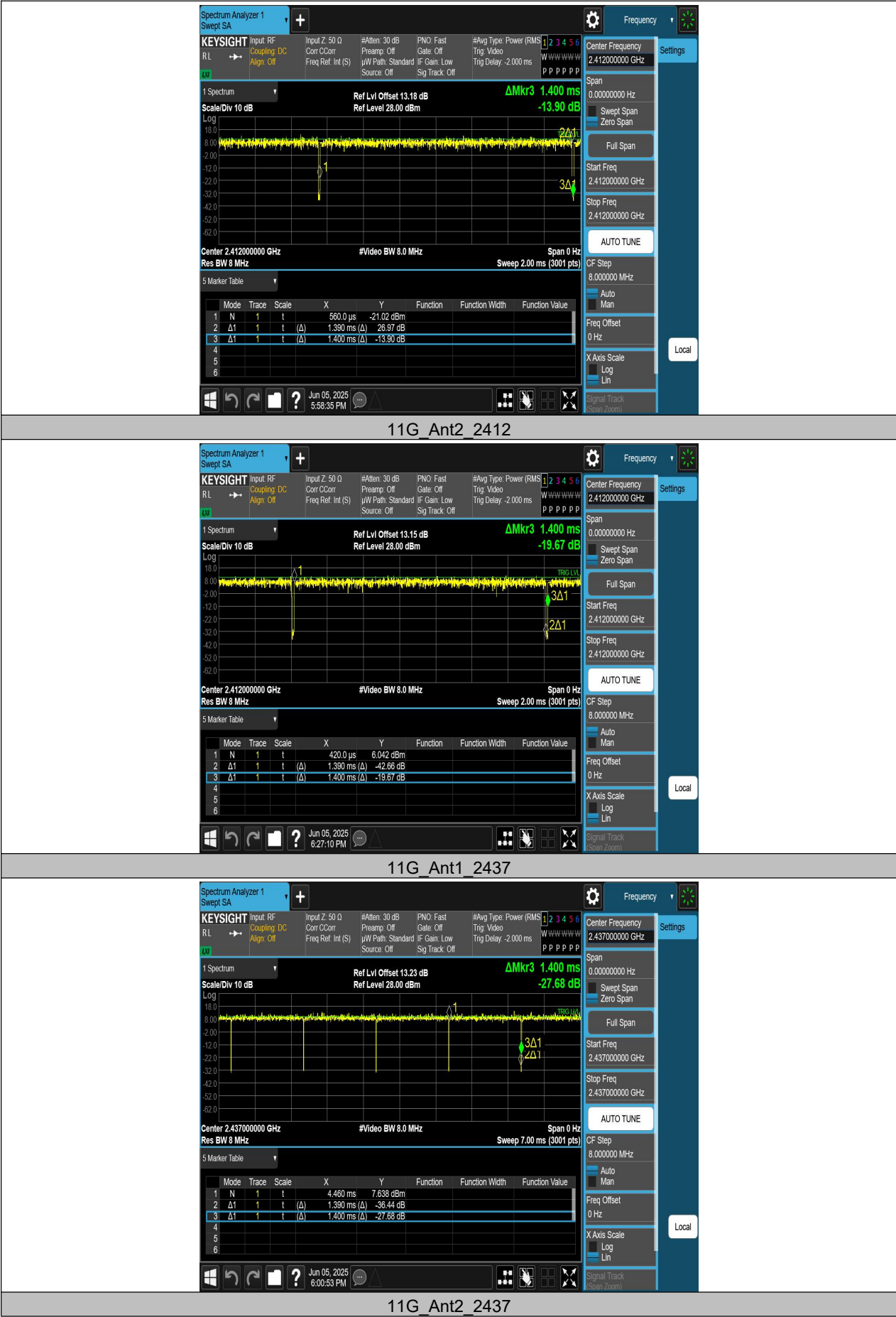
11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412



Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Off

Input Z: 50 Ω

Corr: CCorr

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

μW Path: Standard

Source: Off

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Trig: Video

Trig Delay: -2.000 ms

1 2 3 4 5 6

W W W W W W

P P P P P P

Center Frequency

2.412000000 GHz

Span

0.00000000 Hz

Sweep Span

Zero Span

Full Span

Start Freq

2.412000000 GHz

Stop Freq

2.412000000 GHz

AUTO TUNE

CF Step

8.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Scan Zoom)

Local

1 Spectrum

Ref Lvl Offset 13.15 dB

ΔMkr3 1.400 ms

-19.67 dB

Scale/Div 10 dB

Log

8.00

-2.00

-12.0

-22.0

-32.0

-42.0

-52.0

-62.0

Center 2.412000000 GHz

#Video BW 8.0 MHz

Span 0 Hz

Res BW 8 MHz

Sweep 2.00 ms (3001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	420.0 μs	6.042 dBm			
2	Δ1	1	t	1.390 ms (Δ)	-42.66 dB			
3	Δ1	1	t	1.400 ms (Δ)	-19.67 dB			
4								
5								
6								

Jun 05, 2025

6:27:10 PM

11G_Ant1_2437

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Off

Input Z: 50 Ω

Corr: CCorr

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

μW Path: Standard

Source: Off

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Trig: Video

Trig Delay: -2.000 ms

1 2 3 4 5 6

W W W W W W

P P P P P P

Center Frequency

2.437000000 GHz

Span

0.00000000 Hz

Sweep Span

Zero Span

Full Span

Start Freq

2.437000000 GHz

Stop Freq

2.437000000 GHz

AUTO TUNE

CF Step

8.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Scan Zoom)

Local

1 Spectrum

Ref Lvl Offset 13.23 dB

ΔMkr3 1.400 ms

-27.68 dB

Scale/Div 10 dB

Log

8.00

-2.00

-12.0

-22.0

-32.0

-42.0

-52.0

-62.0

Center 2.437000000 GHz

#Video BW 8.0 MHz

Span 0 Hz

Res BW 8 MHz

Sweep 7.00 ms (3001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	4.460 ms	7.638 dBm			
2	Δ1	1	t	1.390 ms (Δ)	-36.44 dB			
3	Δ1	1	t	1.400 ms (Δ)	-27.68 dB			
4								
5								
6								

Jun 05, 2025

6:00:53 PM

11G_Ant2_2437





