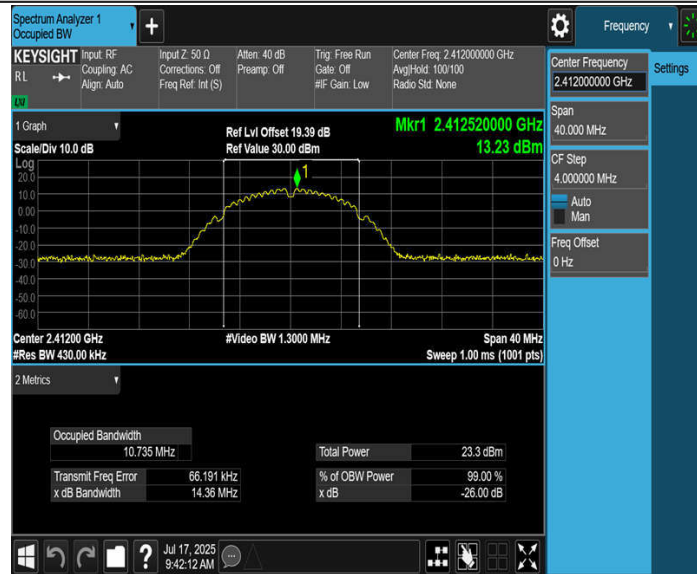


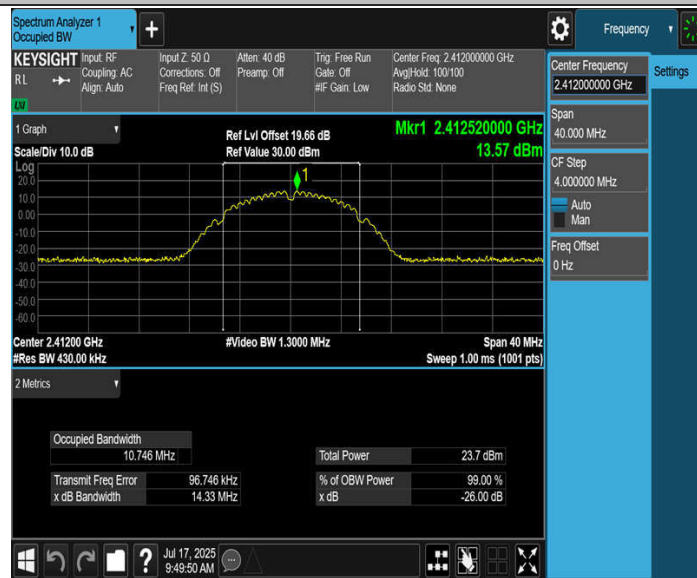
	Ant2	2437	19.037	2427.4965	2446.5335	---	---
	Ant1	2462	19.039	2452.4843	2471.5233	---	---
	Ant2	2462	18.990	2452.5212	2471.5112	---	---
11BE40MIMO	Ant1	2422	37.629	2403.2345	2440.8635	---	---
	Ant2	2422	37.609	2403.2245	2440.8335	---	---
	Ant1	2437	37.692	2418.1621	2455.8541	---	---
	Ant2	2437	37.694	2418.1281	2455.8221	---	---
	Ant1	2452	37.656	2433.1660	2470.8220	---	---
	Ant2	2452	37.676	2433.1638	2470.8398	---	---

Test Graphs

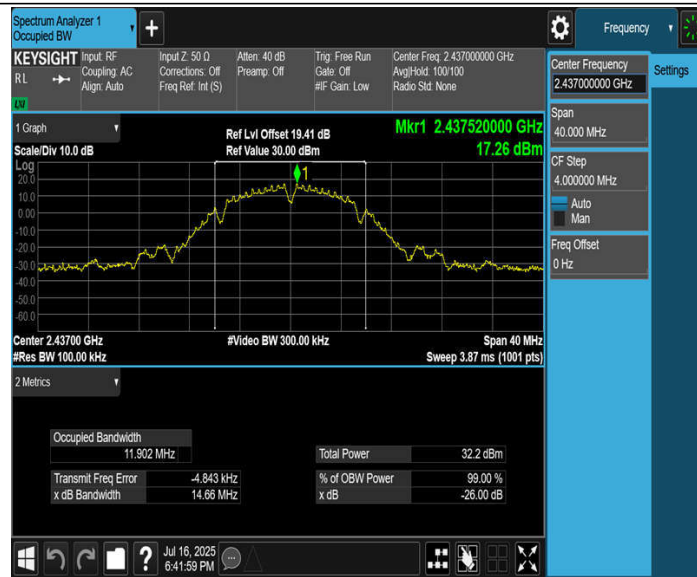
11B-CDD_Ant1_2412



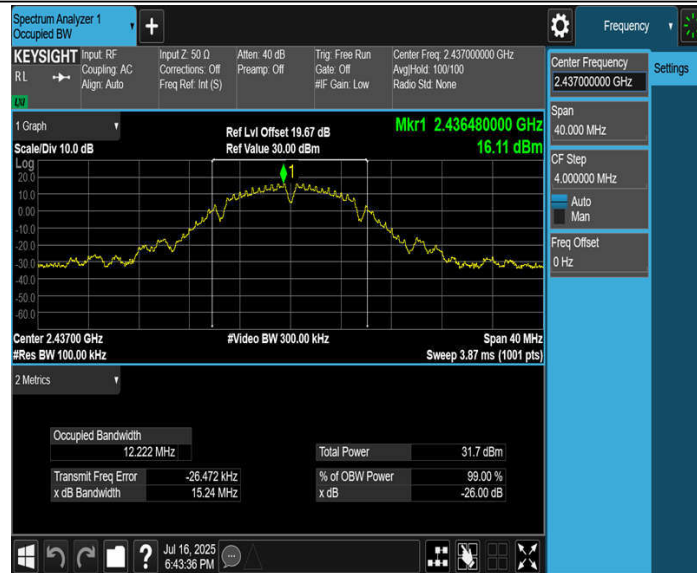
11B-CDD_Ant11_2412



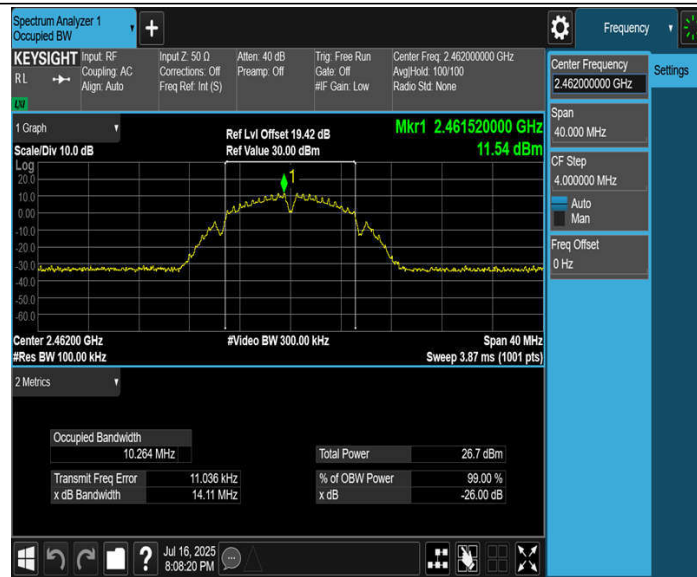
11B-CDD_Ant1_2437



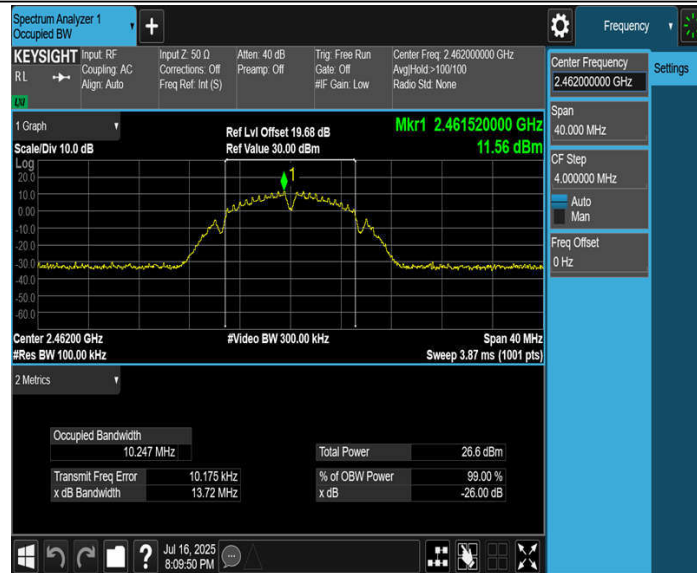
11B-CDD_Ant11_2437



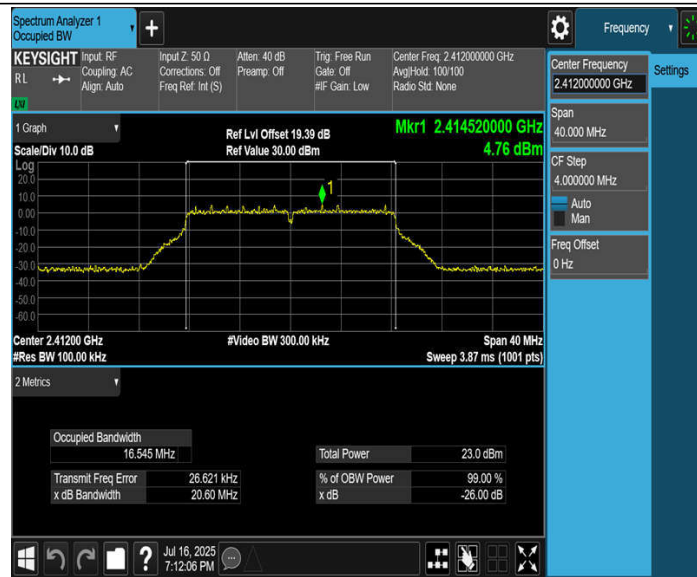
11B-CDD_Ant1_2462



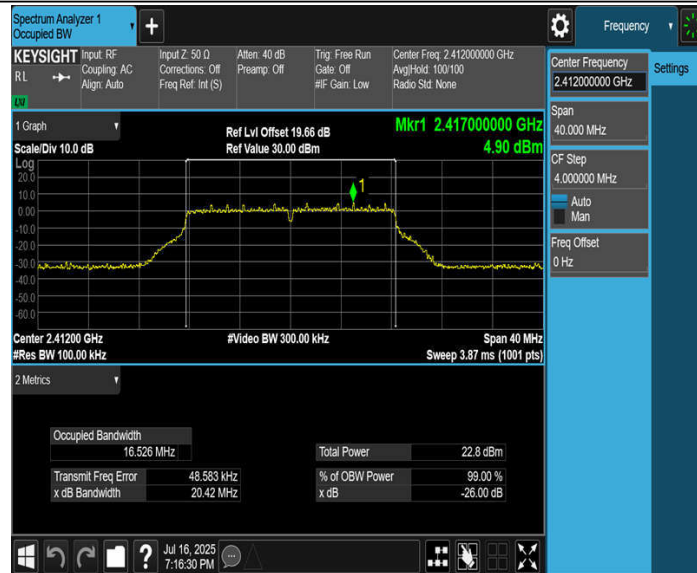
11B-CDD_Ant11_2462



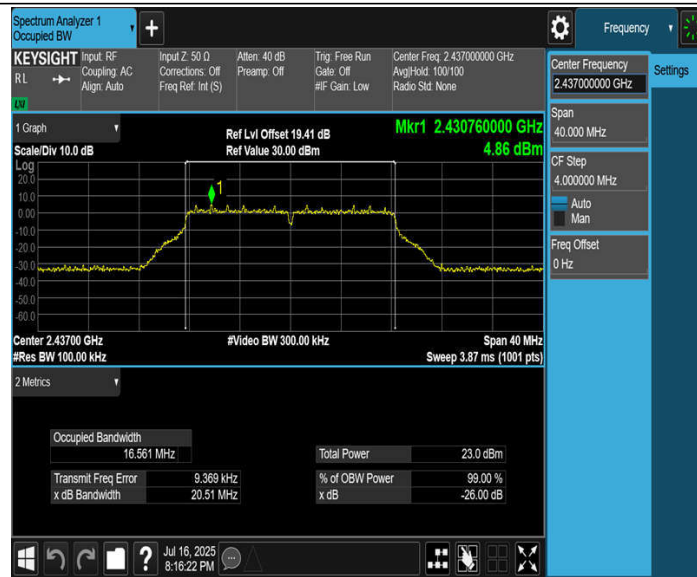
11G-CDD_Ant1_2412



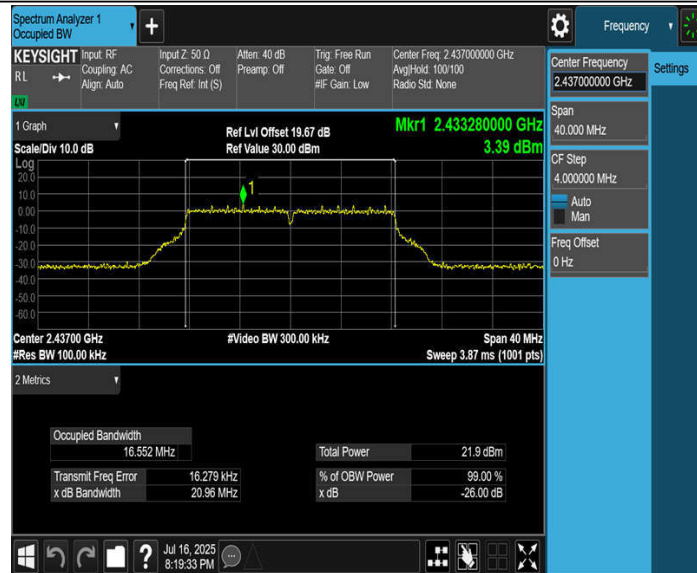
11G-CDD_Ant11_2412



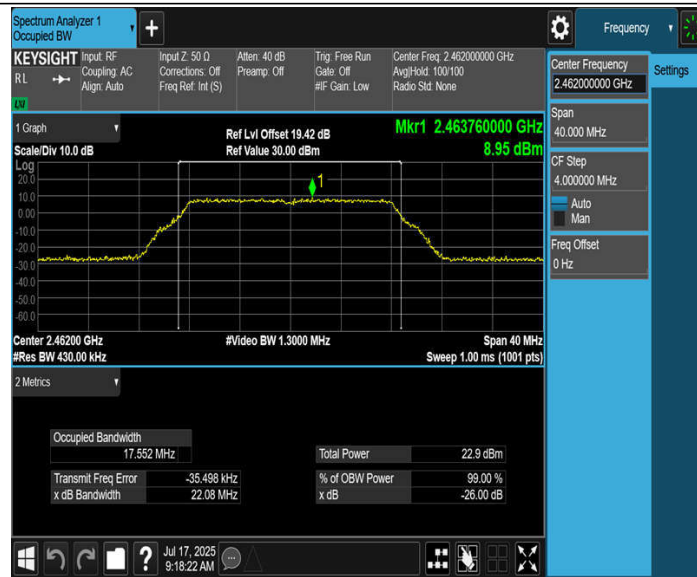
11G-CDD_Ant1_2437



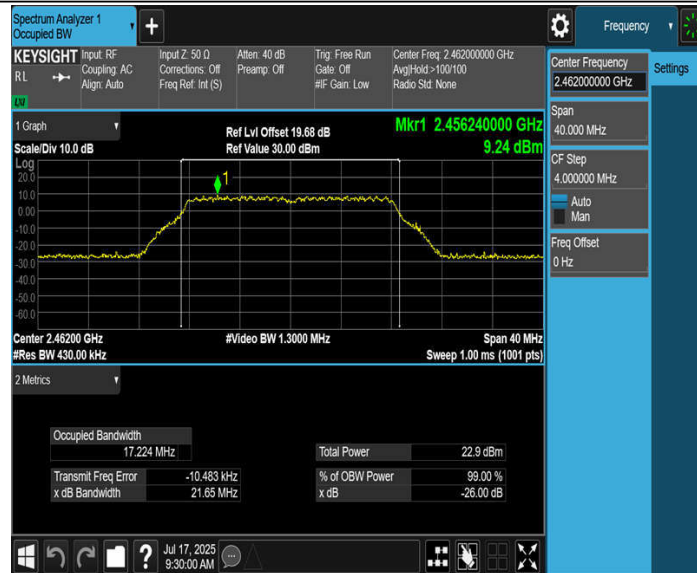
11G-CDD_Ant11_2437



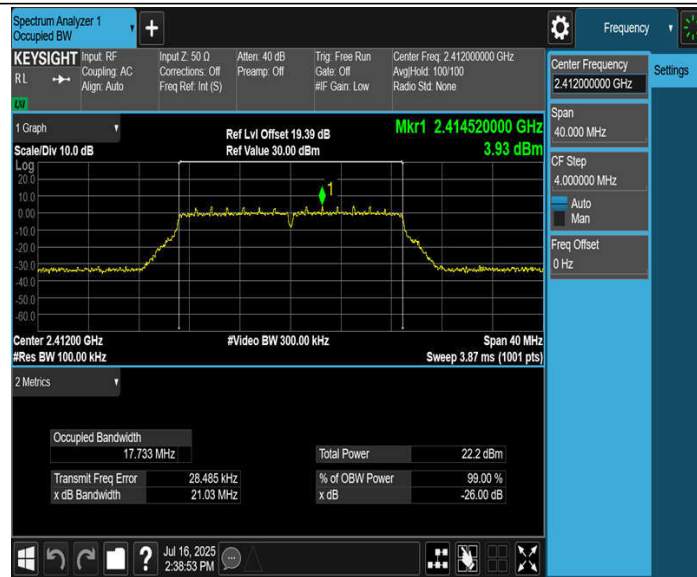
11G-CDD_Ant1_2462



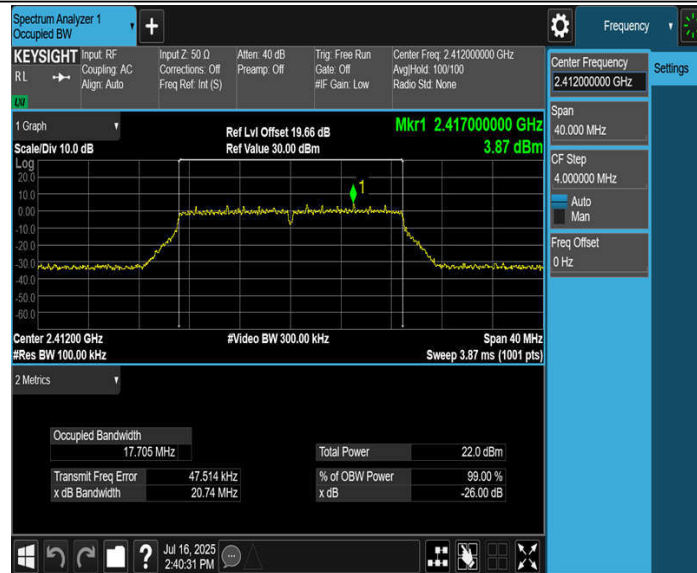
11G-CDD_Ant11_2462



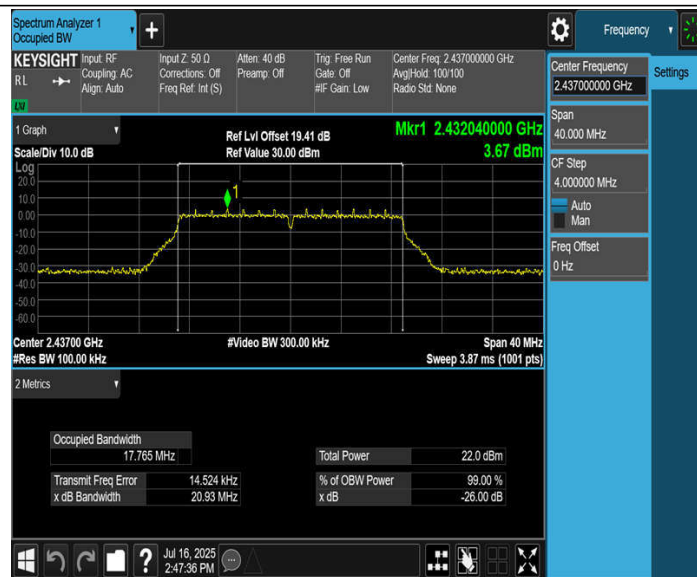
11N20MIMO_Ant1_2412



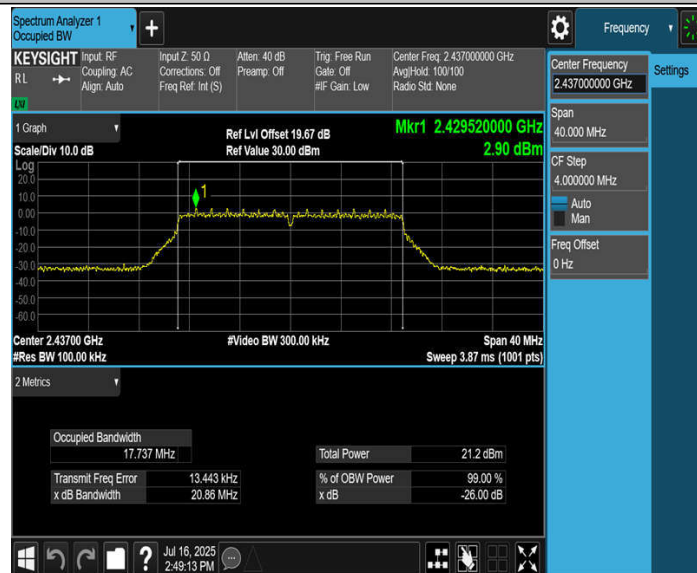
11N20MIMO_Ant11_2412



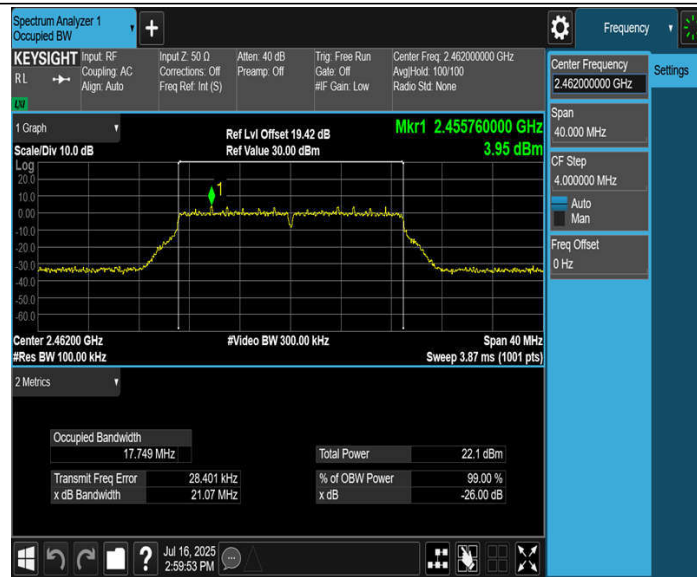
11N20MIMO_Ant1_2437



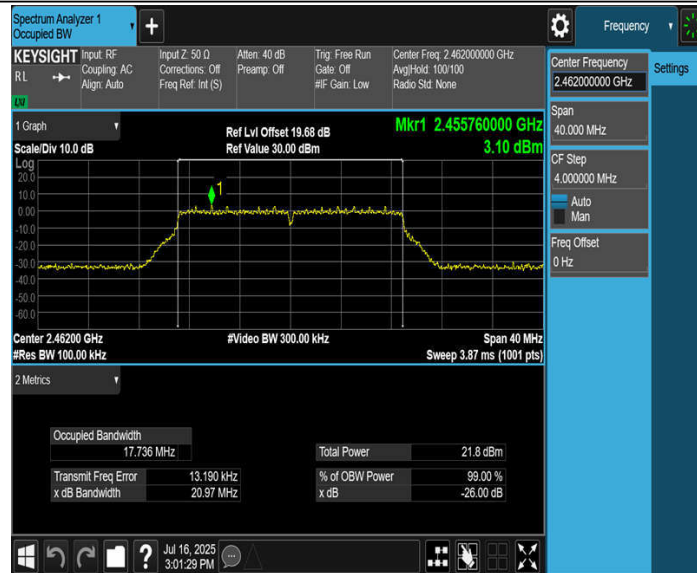
11N20MIMO_Ant11_2437



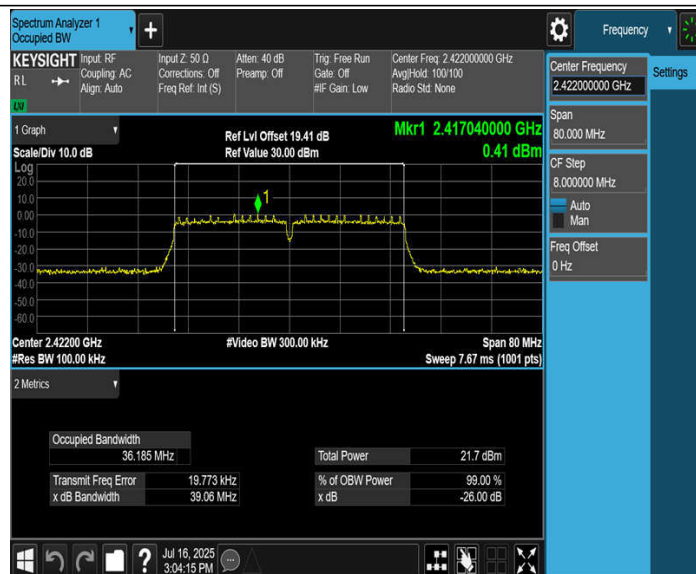
11N20MIMO_Ant1_2462



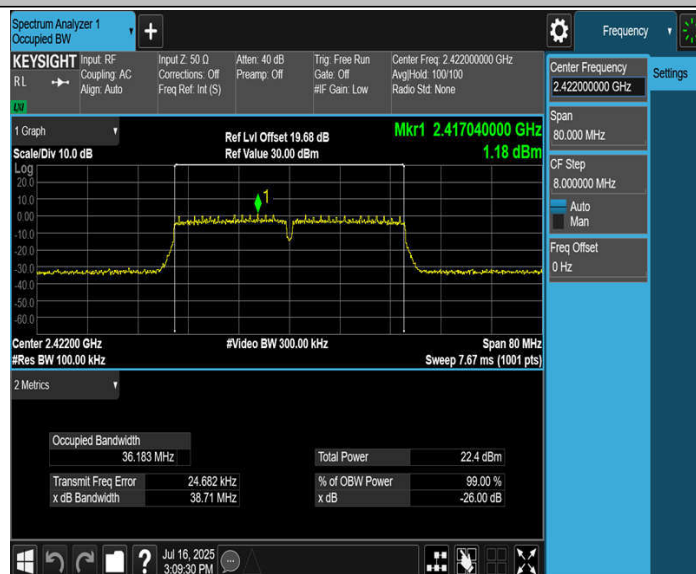
11N20MIMO_Ant11_2462



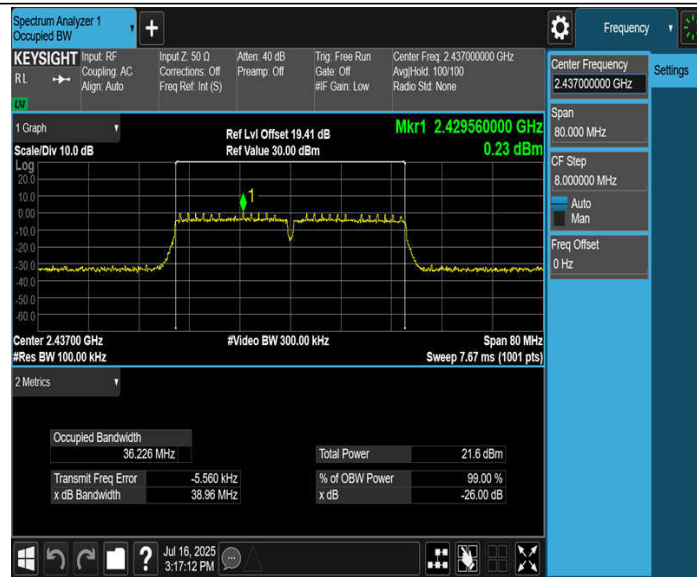
11N40MIMO_Ant1_2422



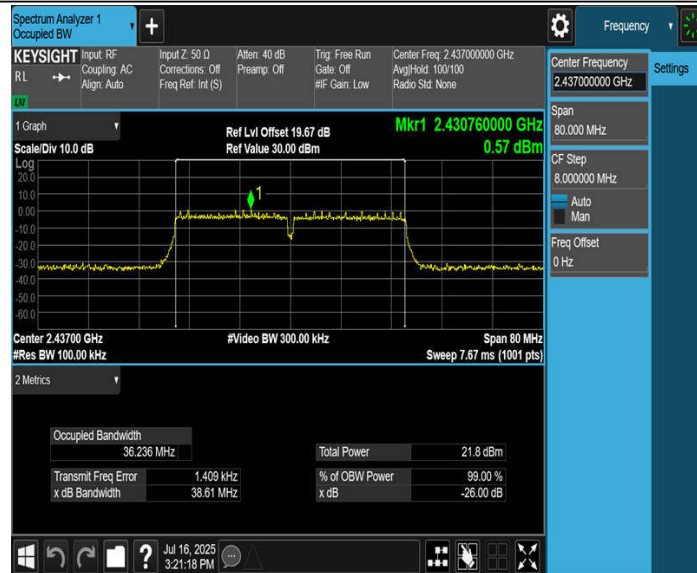
11N40MIMO_Ant11_2422



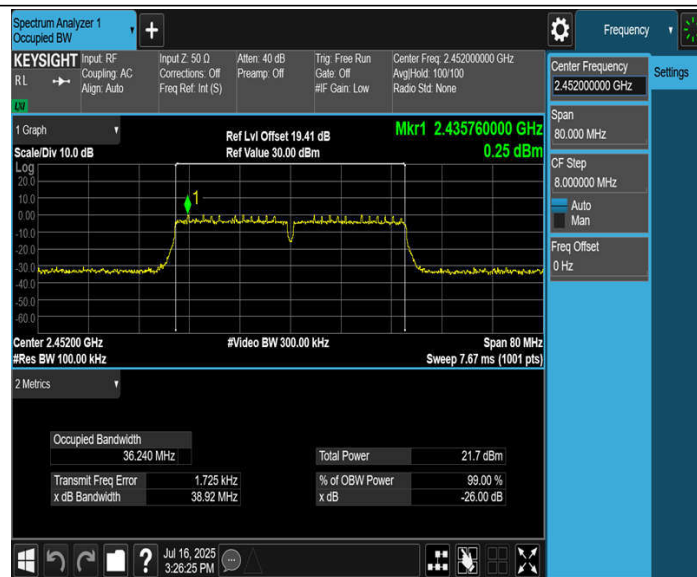
11N40MIMO_Ant1_2437



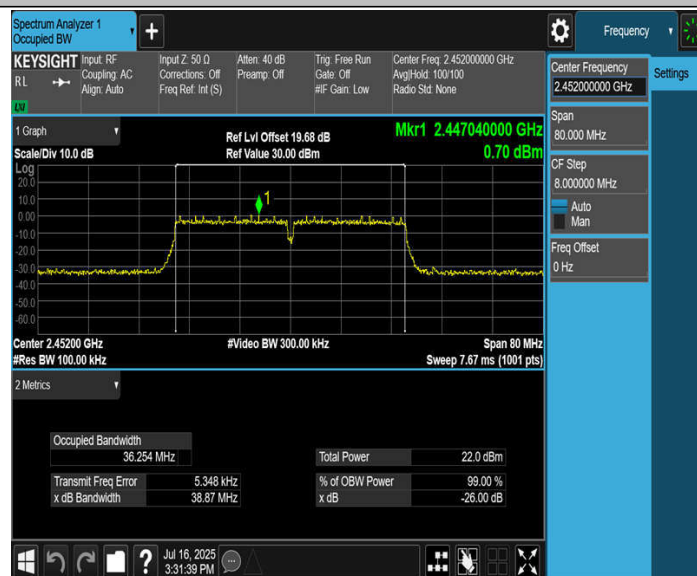
11N40MIMO_Ant11_2437



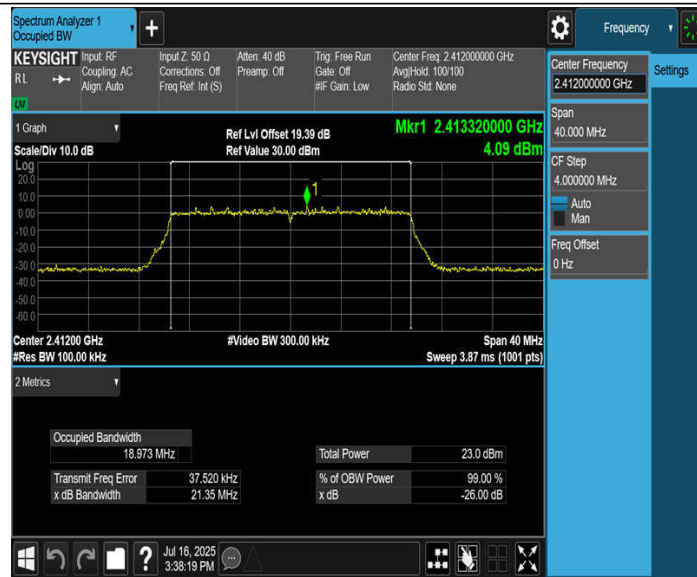
11N40MIMO_Ant1_2452



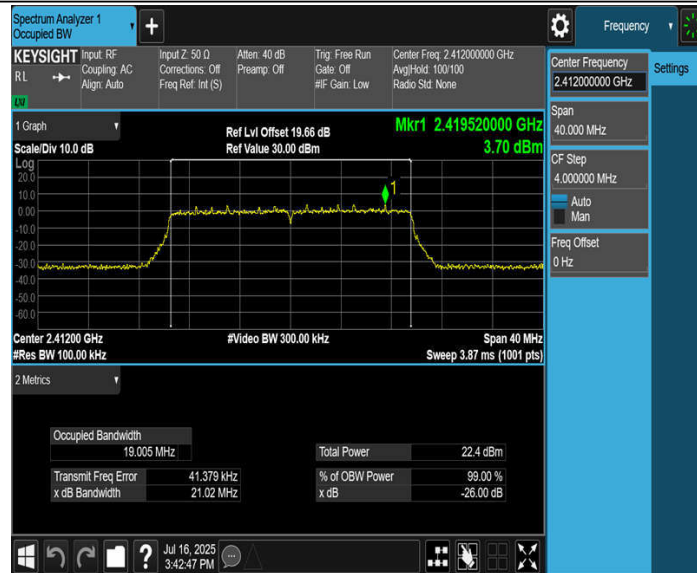
11N40MIMO_Ant11_2452



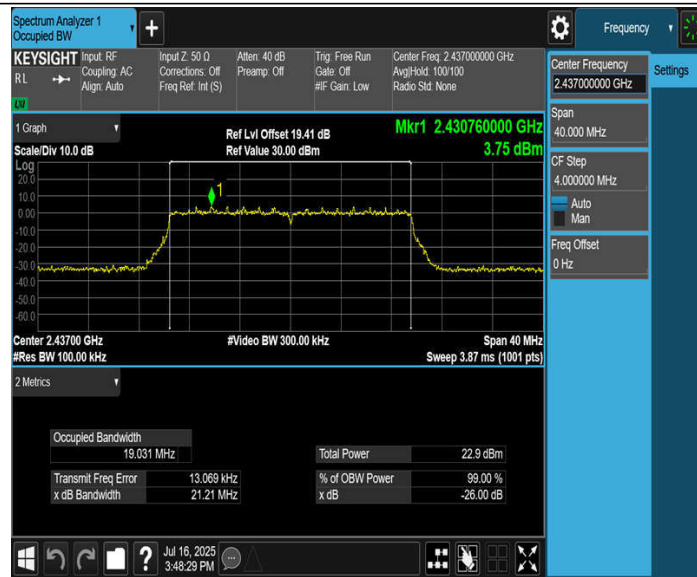
11AX20MIMO_Ant1_2412



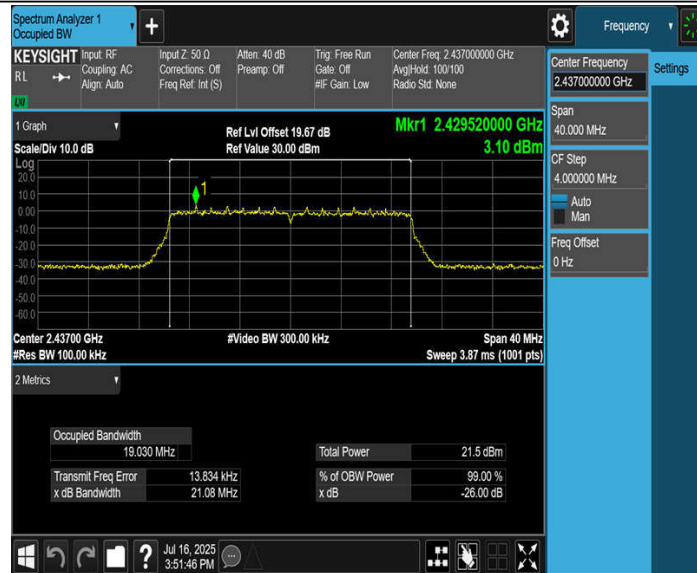
11AX20MIMO_Ant11_2412



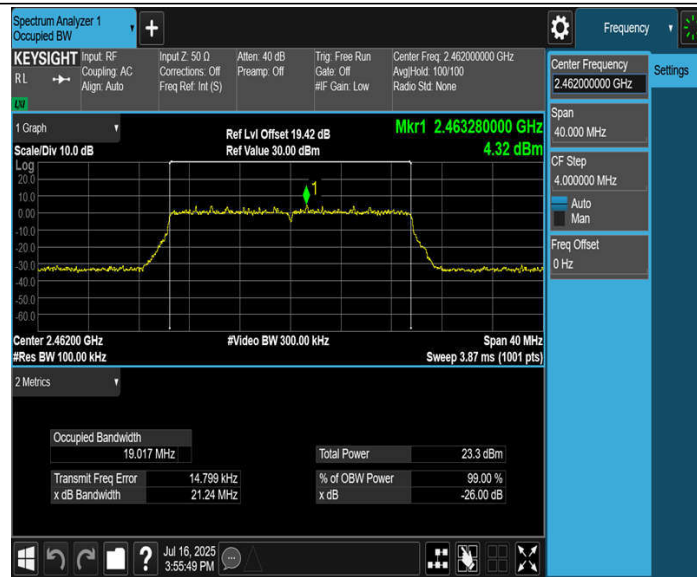
11AX20MIMO_Ant1_2437



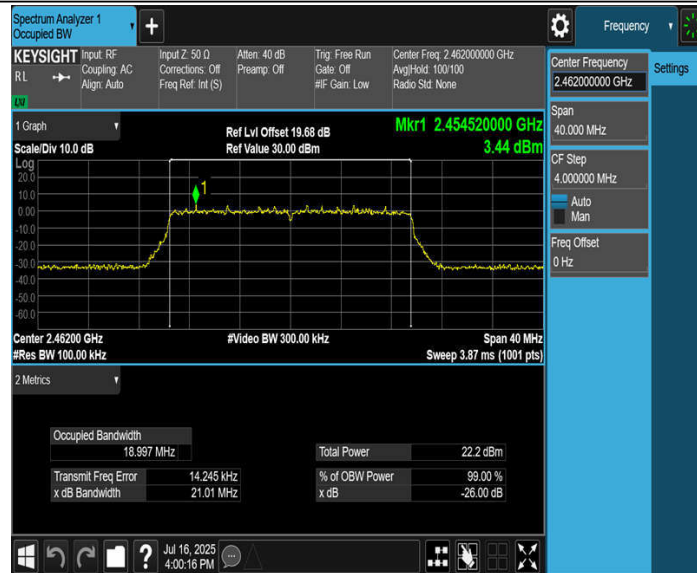
11AX20MIMO_Ant11_2437



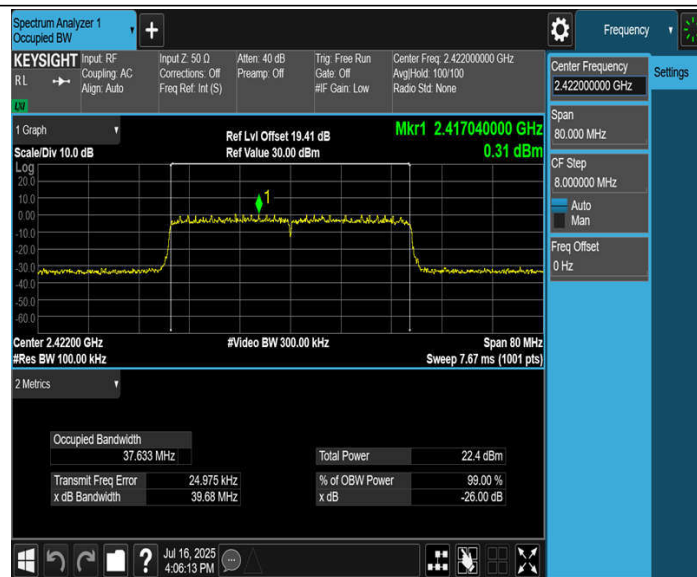
11AX20MIMO_Ant1_2462



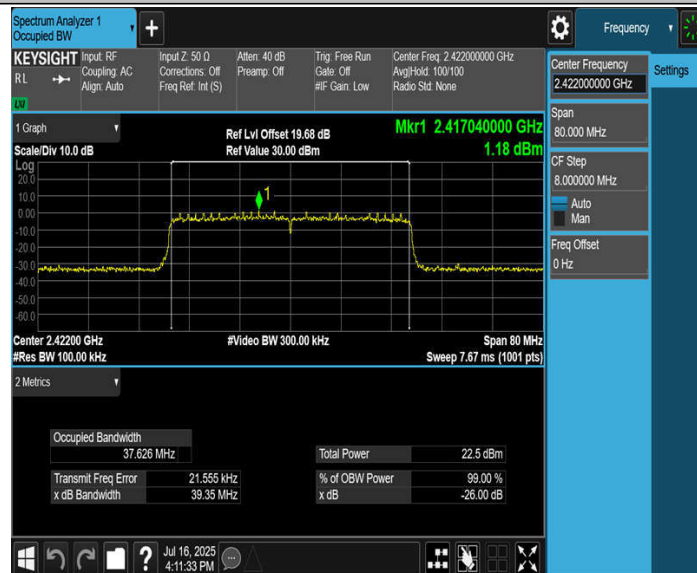
11AX20MIMO_Ant11_2462



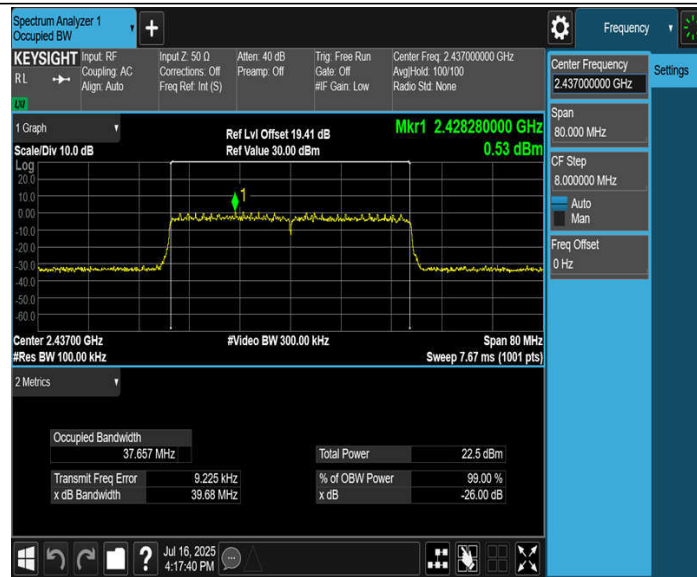
11AX40MIMO_Ant1_2422



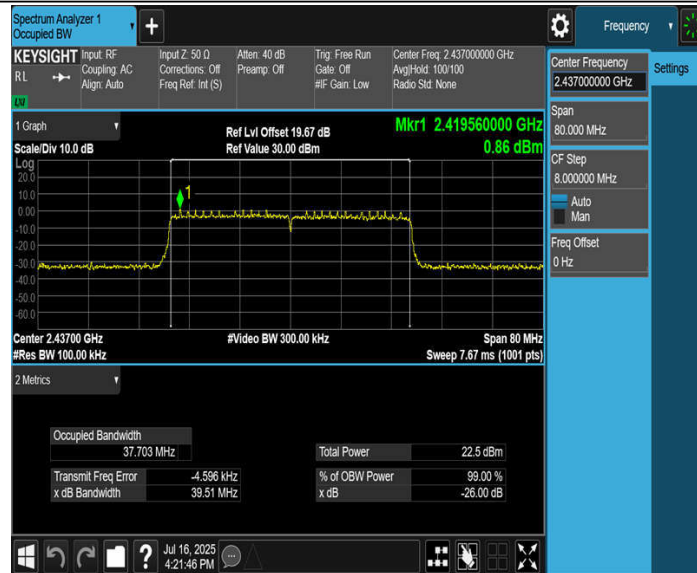
11AX40MIMO_Ant11_2422



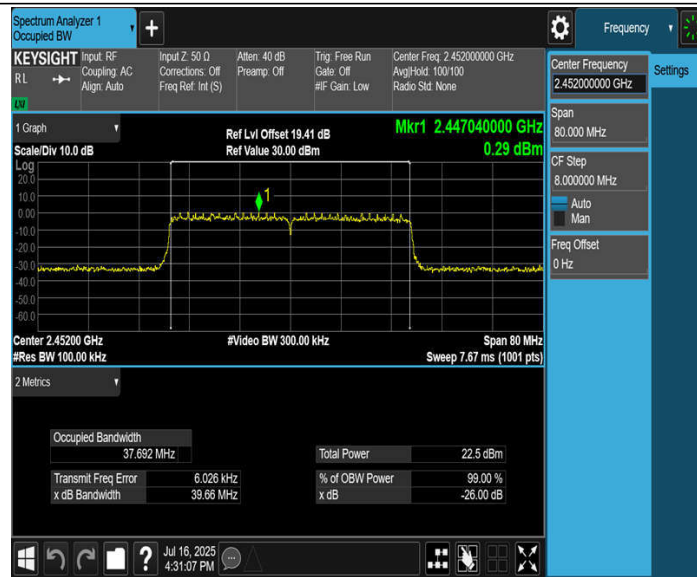
11AX40MIMO_Ant1_2437



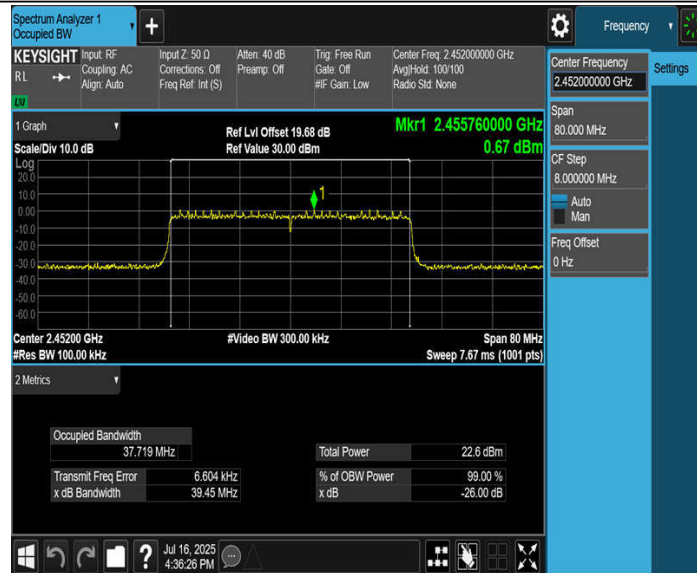
11AX40MIMO_Ant11_2437



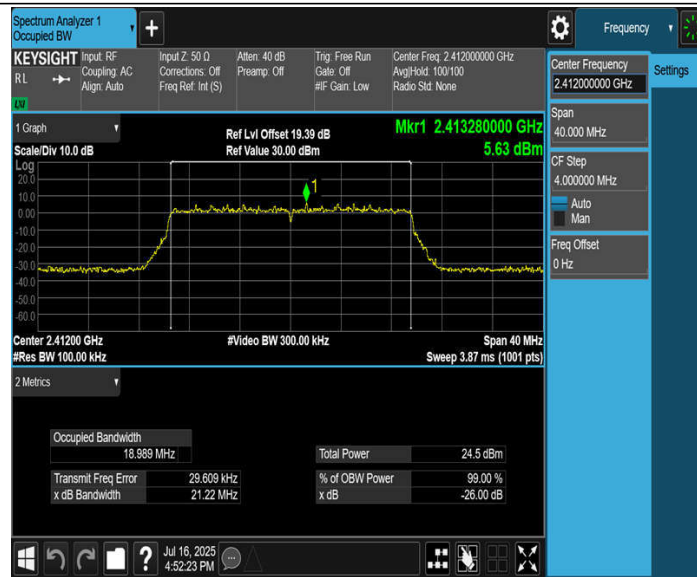
11AX40MIMO_Ant1_2452



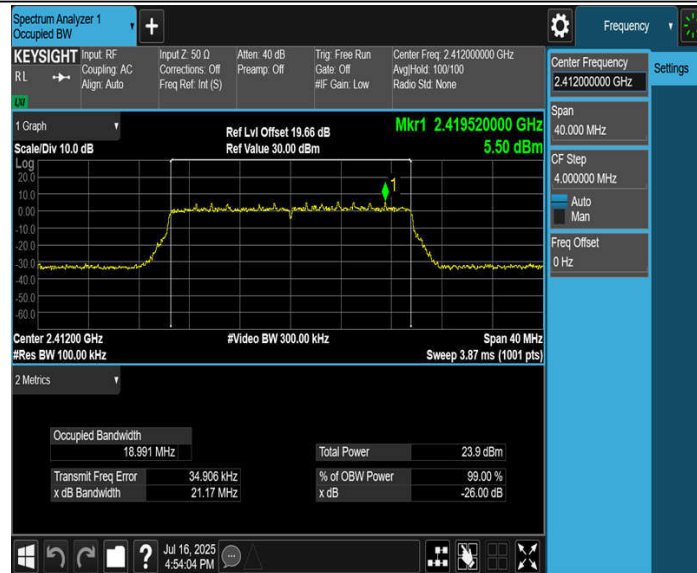
11AX40MIMO_Ant11_2452



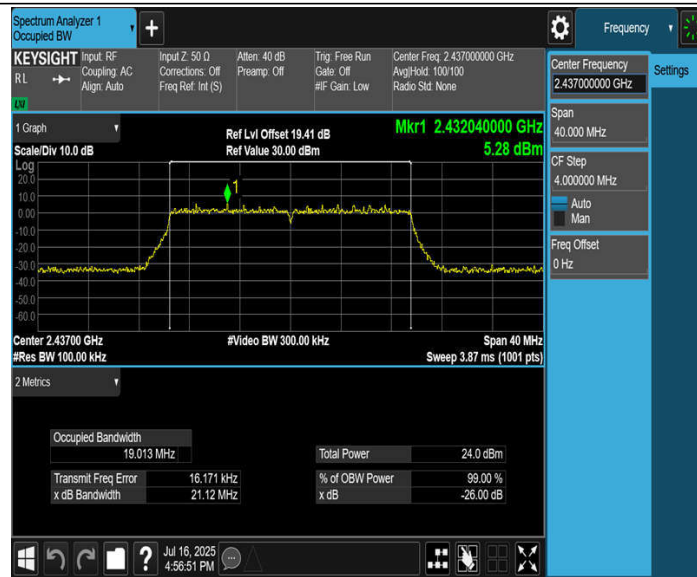
11BE20MIMO_Ant1_2412



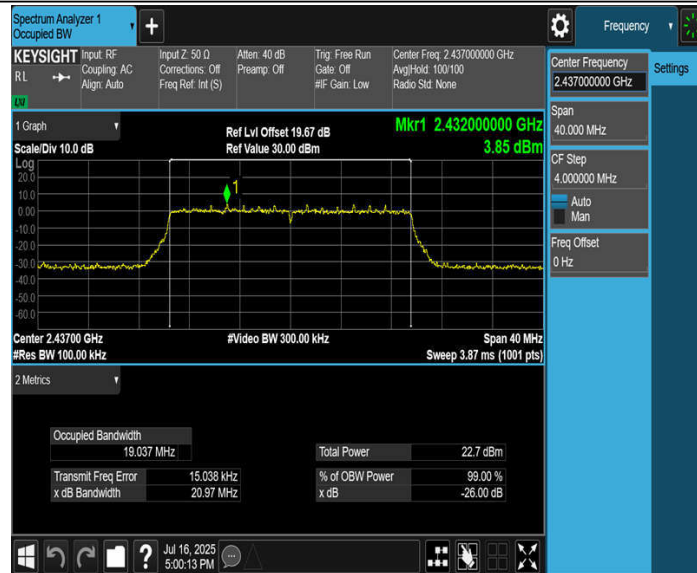
11BE20MIMO_Ant11_2412



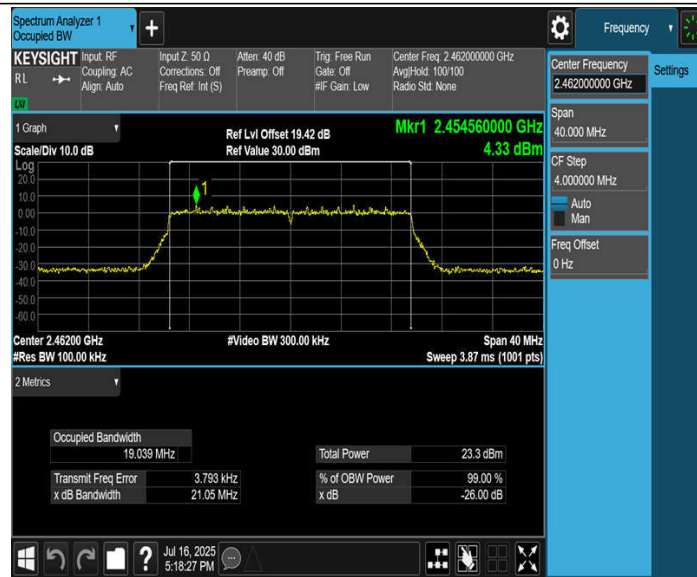
11BE20MIMO_Ant1_2437



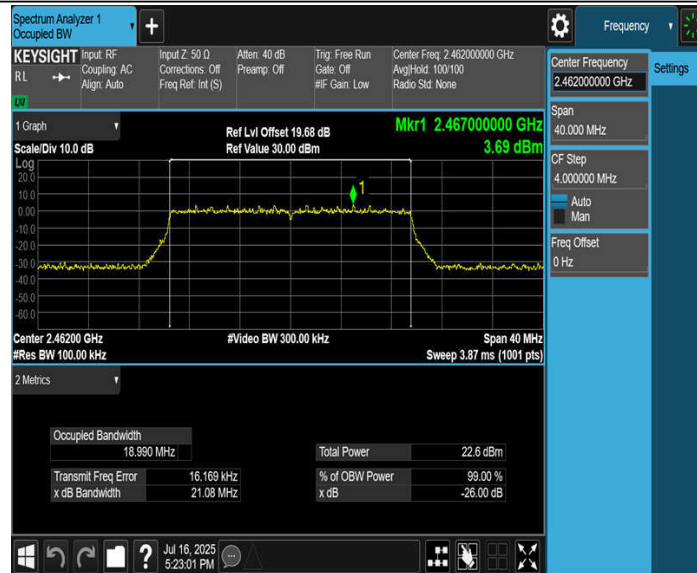
11BE20MIMO_Ant11_2437



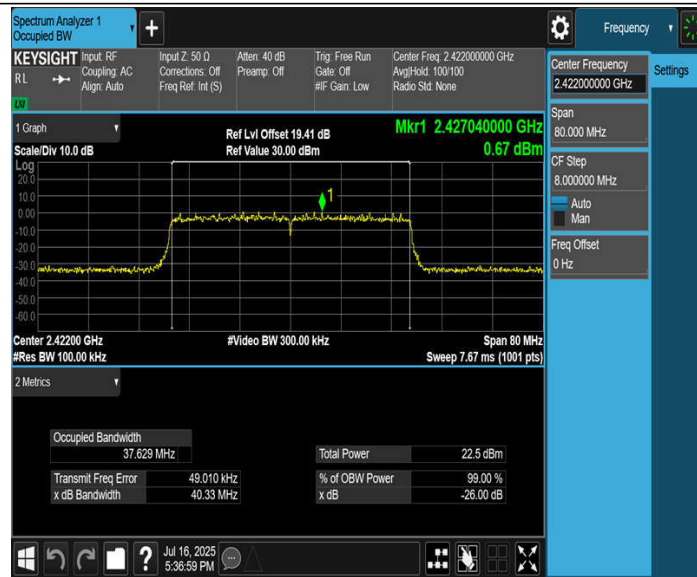
11BE20MIMO_Ant1_2462



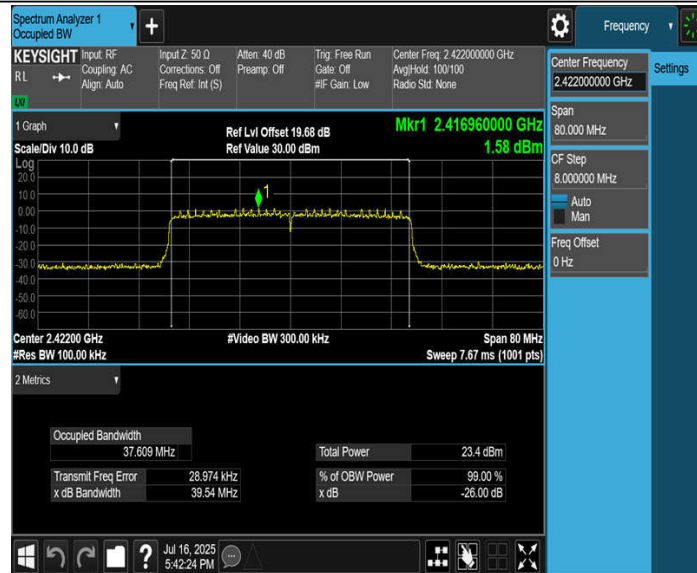
11BE20MIMO_Ant11_2462



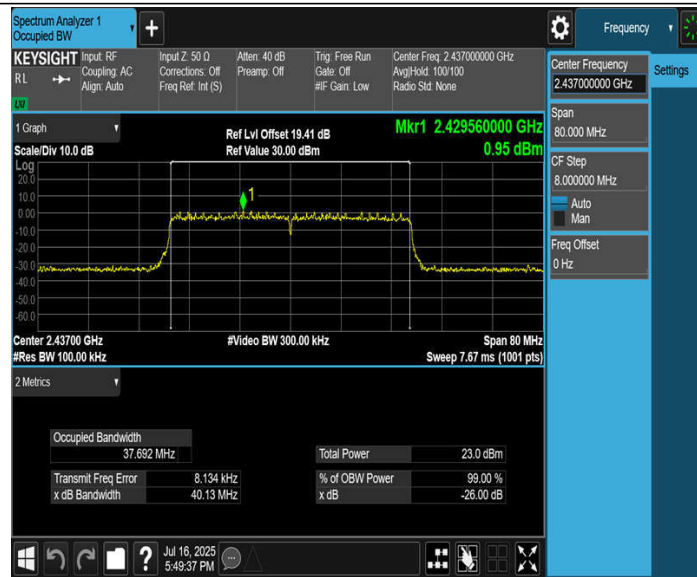
11BE40MIMO_Ant1_2422



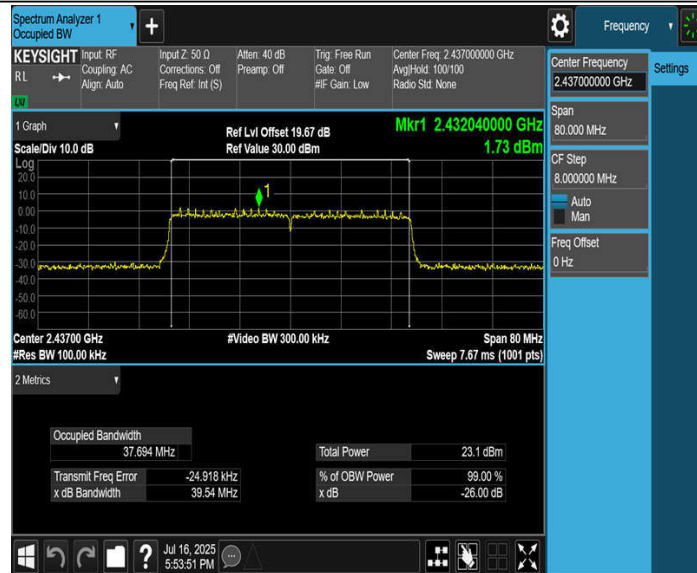
11BE40MIMO_Ant11_2422



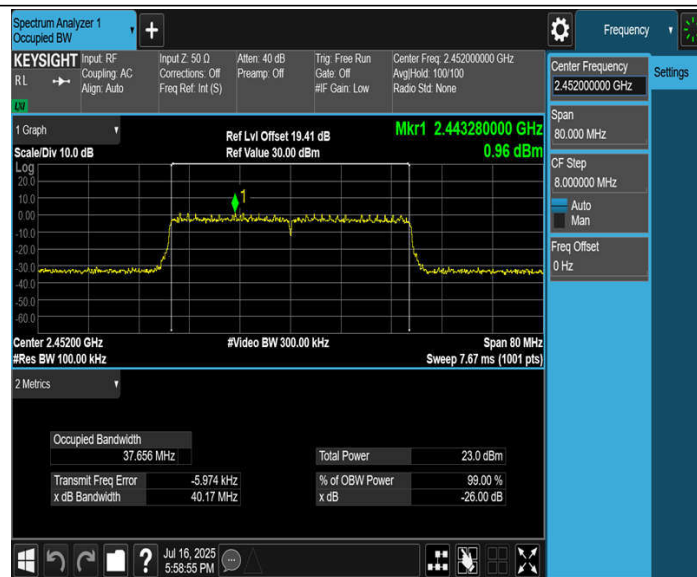
11BE40MIMO_Ant1_2437



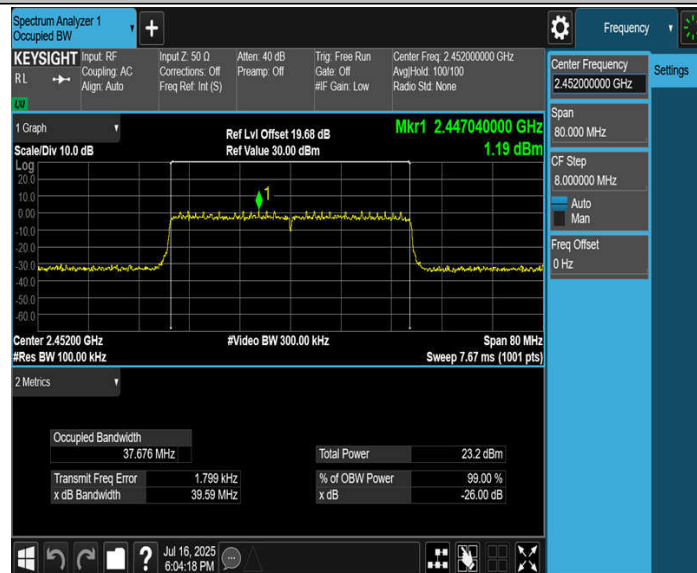
11BE40MIMO_Ant11_2437



11BE40MIMO_Ant1_2452



11BE40MIMO_Ant11_2452



3.5 Maximum conducted output power

3.5.1 Limit

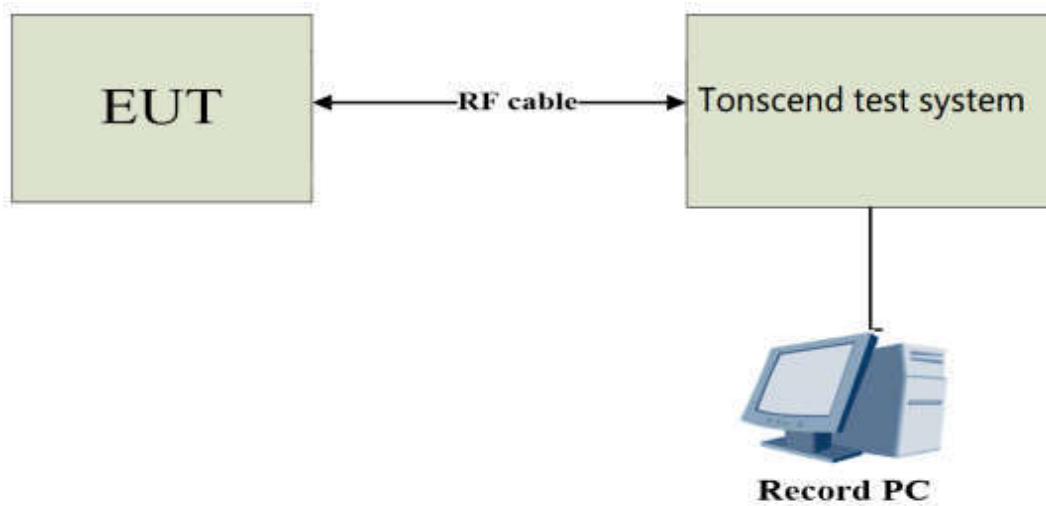
For systems using digital modulation in the 2400~2483.5MHz, The Maximum output Power shall not exceed 1W(30dBm)

3.5.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for method AVGPM)of ANSI C63.10-2013.

3.5.3 Test Setup



3.5.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

No beamforming

Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	99	105	100
IEEE 802.11g	80	105	82
IEEE 802.11n(20)	85	104	85
IEEE 802.11ax(20)	85	104	85
IEEE 802.11be(20)	83	104	83
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(40)	85	104	85
IEEE 802.11ax(40)	85	104	85
IEEE 802.11be(40)	78	104	78

Beamforming

Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	85	91	86
IEEE 802.11g	66	91	68
IEEE 802.11n(20)	71	90	71
IEEE 802.11ax(20)	71	90	71
IEEE 802.11be(20)	69	90	69
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(40)	71	90	71
IEEE 802.11ax(40)	71	90	71
IEEE 802.11be(40)	64	90	64

3.5.5 The Result

No beamforming

TestMode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	2412	24.83	≤30.00	PASS
	Ant2	2412	24.68	≤30.00	PASS
	total	2412	27.77	≤30.00	PASS
	Ant1	2437	24.89	≤30.00	PASS
	Ant2	2437	24.03	≤30.00	PASS
	total	2437	27.49	≤30.00	PASS
	Ant1	2462	24.82	≤30.00	PASS
	Ant2	2462	24.53	≤30.00	PASS
	total	2462	27.69	≤30.00	PASS
11G-CDD	Ant1	2412	19.96	≤30.00	PASS
	Ant2	2412	20.01	≤30.00	PASS
	total	2412	23.00	≤30.00	PASS
	Ant1	2437	20.66	≤30.00	PASS
	Ant2	2437	20.26	≤30.00	PASS
	total	2437	23.47	≤30.00	PASS
	Ant1	2462	20.69	≤30.00	PASS
	Ant2	2462	20.57	≤30.00	PASS
	total	2462	23.64	≤30.00	PASS
11N20MIMO	Ant1	2412	21.43	≤30.00	PASS
	Ant2	2412	22.33	≤30.00	PASS
	total	2412	24.91	≤30.00	PASS
	Ant1	2437	25.92	≤30.00	PASS
	Ant2	2437	26.23	≤30.00	PASS
	total	2437	29.09	≤30.00	PASS
	Ant1	2462	21.80	≤30.00	PASS
	Ant2	2462	22.42	≤30.00	PASS
	total	2462	25.13	≤30.00	PASS
11N40MIMO	Ant1	2422	20.96	≤30.00	PASS
	Ant2	2422	22.45	≤30.00	PASS
	total	2422	24.78	≤30.00	PASS
	Ant1	2437	25.66	≤30.00	PASS
	Ant2	2437	26.78	≤30.00	PASS
	total	2437	29.27	≤30.00	PASS
	Ant1	2452	21.21	≤30.00	PASS
	Ant2	2452	22.54	≤30.00	PASS
	total	2452	24.94	≤30.00	PASS
11AX20MIMO	Ant1	2412	21.82	≤30.00	PASS
	Ant2	2412	22.64	≤30.00	PASS

	total	2412	25.26	≤30.00	PASS
	Ant1	2437	26.07	≤30.00	PASS
	Ant2	2437	26.35	≤30.00	PASS
	total	2437	29.22	≤30.00	PASS
	Ant1	2462	22.12	≤30.00	PASS
	Ant2	2462	22.57	≤30.00	PASS
	total	2462	25.36	≤30.00	PASS
11AX40MIMO	Ant1	2422	21.30	≤30.00	PASS
	Ant2	2422	22.81	≤30.00	PASS
	total	2422	25.13	≤30.00	PASS
	Ant1	2437	25.66	≤30.00	PASS
	Ant2	2437	26.86	≤30.00	PASS
	total	2437	29.31	≤30.00	PASS
	Ant1	2452	21.12	≤30.00	PASS
	Ant2	2452	22.37	≤30.00	PASS
	total	2452	24.80	≤30.00	PASS
11BE20MIMO	Ant1	2412	20.99	≤30.00	PASS
	Ant2	2412	21.67	≤30.00	PASS
	total	2412	24.35	≤30.00	PASS
	Ant1	2437	25.97	≤30.00	PASS
	Ant2	2437	26.17	≤30.00	PASS
	total	2437	29.08	≤30.00	PASS
	Ant1	2462	21.49	≤30.00	PASS
	Ant2	2462	21.76	≤30.00	PASS
	total	2462	24.64	≤30.00	PASS
11BE40MIMO	Ant1	2422	19.51	≤30.00	PASS
	Ant2	2422	20.67	≤30.00	PASS
	total	2422	23.14	≤30.00	PASS
	Ant1	2437	25.64	≤30.00	PASS
	Ant2	2437	26.73	≤30.00	PASS
	total	2437	29.23	≤30.00	PASS
	Ant1	2452	19.78	≤30.00	PASS
	Ant2	2452	20.81	≤30.00	PASS
	total	2452	23.34	≤30.00	PASS

Note: The duty cycle factor is compensated in the average conducted output power.

Beamforming

TestMode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	2412	20.76	≤30.00	PASS
	Ant2	2412	21.73	≤30.00	PASS
	total	2412	24.28	≤30.00	PASS
	Ant1	2437	21.77	≤30.00	PASS
	Ant2	2437	22.54	≤30.00	PASS
	total	2437	25.18	≤30.00	PASS
	Ant1	2462	20.79	≤30.00	PASS
	Ant2	2462	21.47	≤30.00	PASS
	total	2462	24.15	≤30.00	PASS
11G-CDD	Ant1	2412	16.60	≤30.00	PASS
	Ant2	2412	16.54	≤30.00	PASS
	total	2412	19.58	≤30.00	PASS
	Ant1	2437	22.56	≤30.00	PASS
	Ant2	2437	22.49	≤30.00	PASS
	total	2437	25.54	≤30.00	PASS
	Ant1	2462	16.70	≤30.00	PASS
	Ant2	2462	17.14	≤30.00	PASS
	total	2462	19.94	≤30.00	PASS
11N20MIMO	Ant1	2412	17.34	≤30.00	PASS
	Ant2	2412	18.14	≤30.00	PASS
	total	2412	20.77	≤30.00	PASS
	Ant1	2437	22.54	≤30.00	PASS
	Ant2	2437	22.70	≤30.00	PASS
	total	2437	25.63	≤30.00	PASS
	Ant1	2462	17.56	≤30.00	PASS
	Ant2	2462	17.58	≤30.00	PASS
	total	2462	20.58	≤30.00	PASS
11N40MIMO	Ant1	2422	17.69	≤30.00	PASS
	Ant2	2422	18.22	≤30.00	PASS
	total	2422	20.97	≤30.00	PASS
	Ant1	2437	21.97	≤30.00	PASS
	Ant2	2437	22.41	≤30.00	PASS
	total	2437	25.21	≤30.00	PASS
	Ant1	2452	17.49	≤30.00	PASS
	Ant2	2452	18.41	≤30.00	PASS
	total	2452	20.98	≤30.00	PASS
11AX20MIMO	Ant1	2412	17.24	≤30.00	PASS
	Ant2	2412	17.54	≤30.00	PASS
	total	2412	20.40	≤30.00	PASS