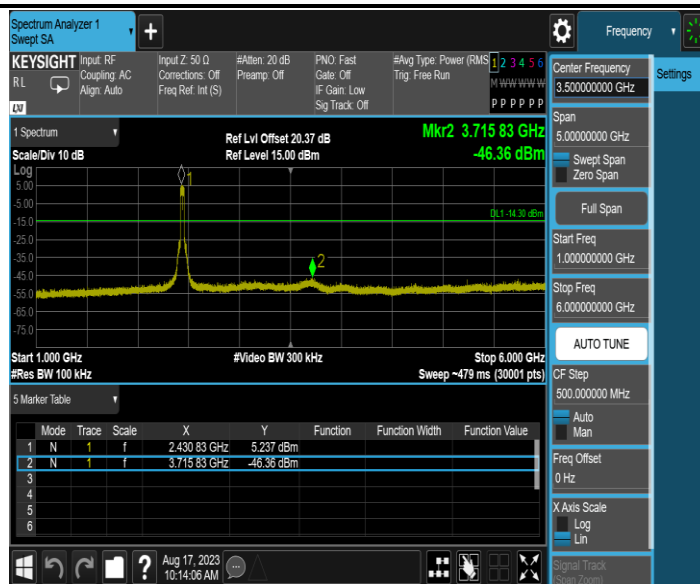
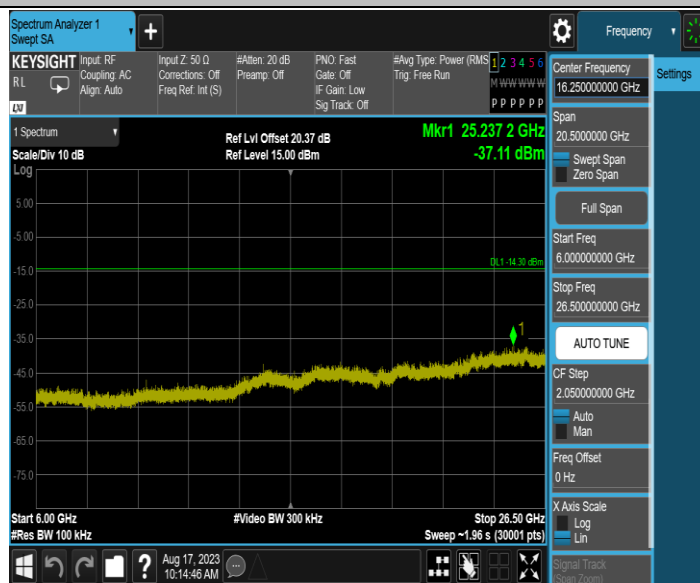
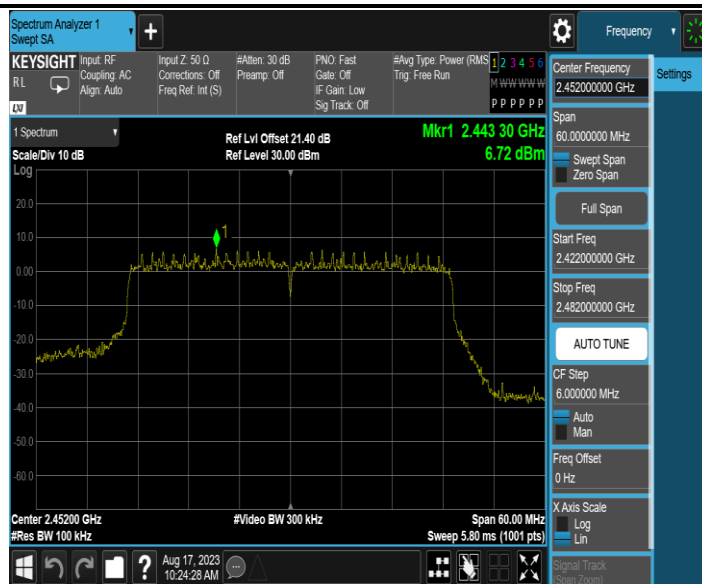




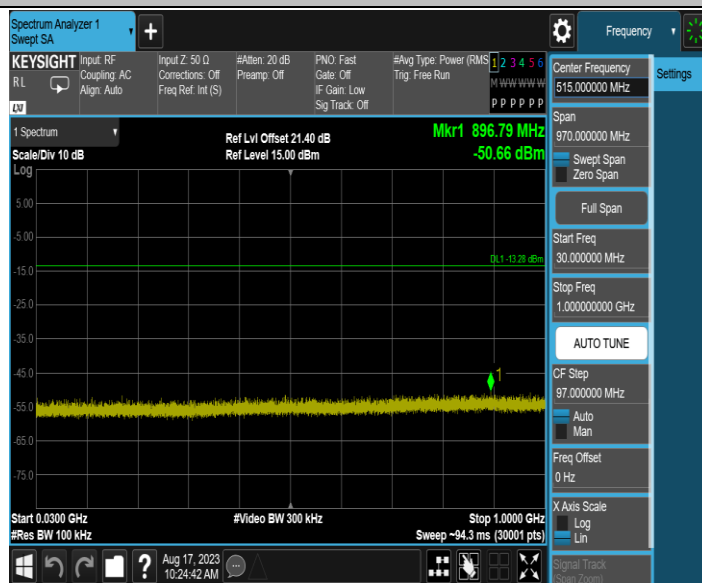
11AX40MIMO_Ant2_2437_6000~26500



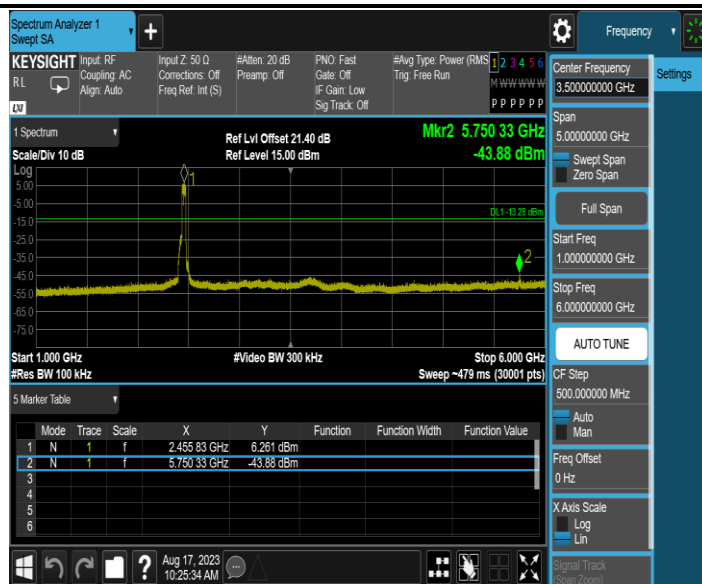
11AX40MIMO_Ant1_2452_0~Reference



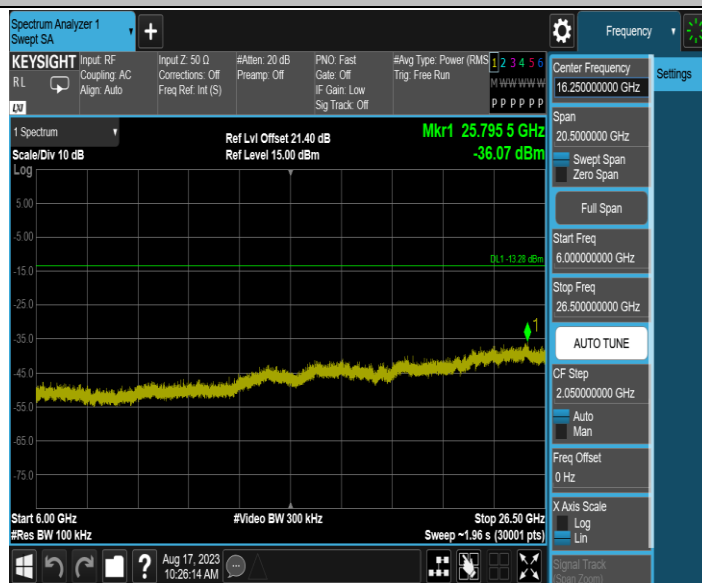
11AX40MIMO_Ant1_2452_30~1000



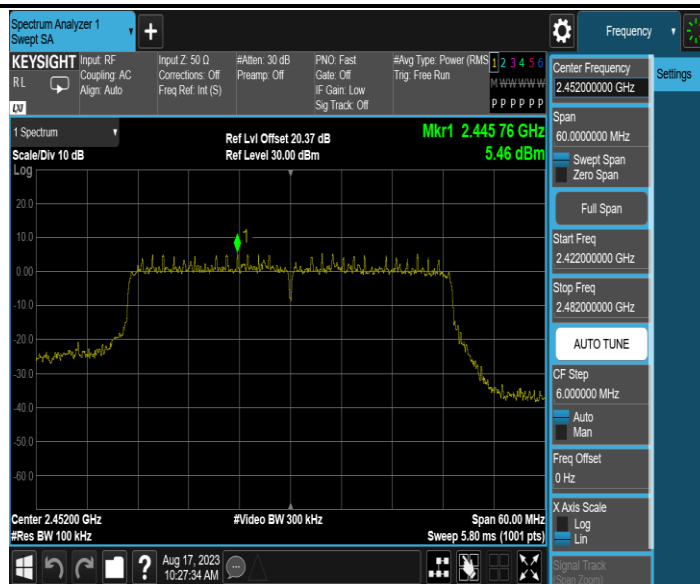
11AX40MIMO_Ant1_2452_1000~6000



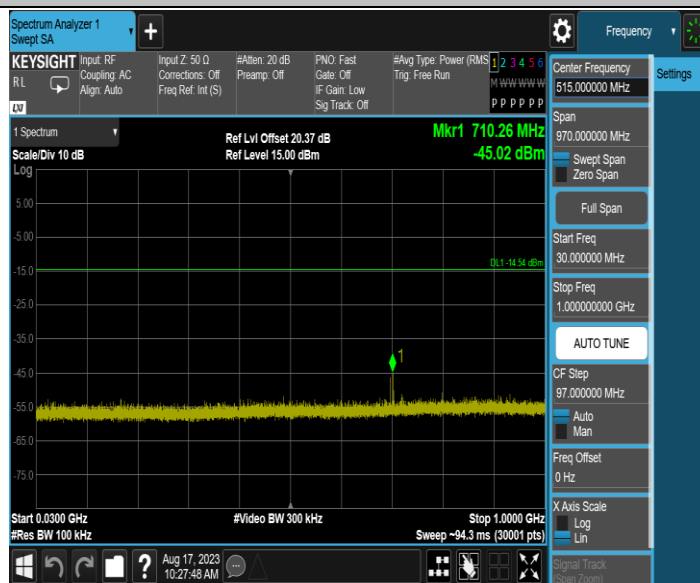
11AX40MIMO_Ant1_2452_6000~26500



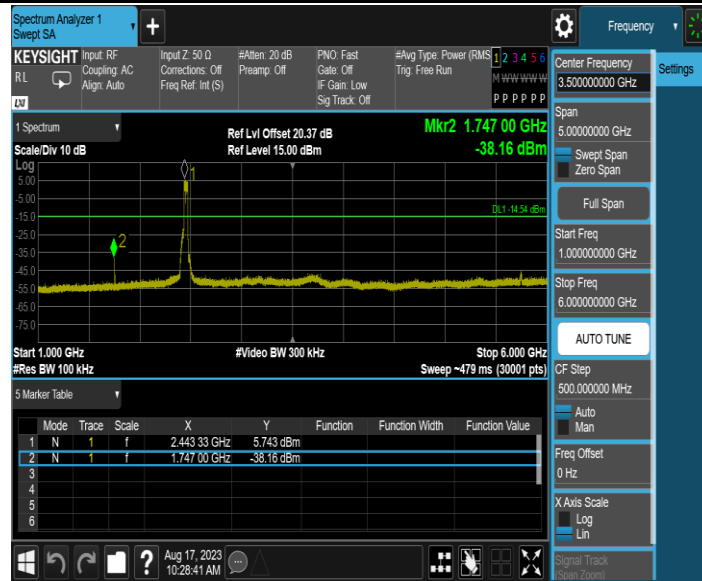
11AX40MIMO_Ant2_2452_0~Reference



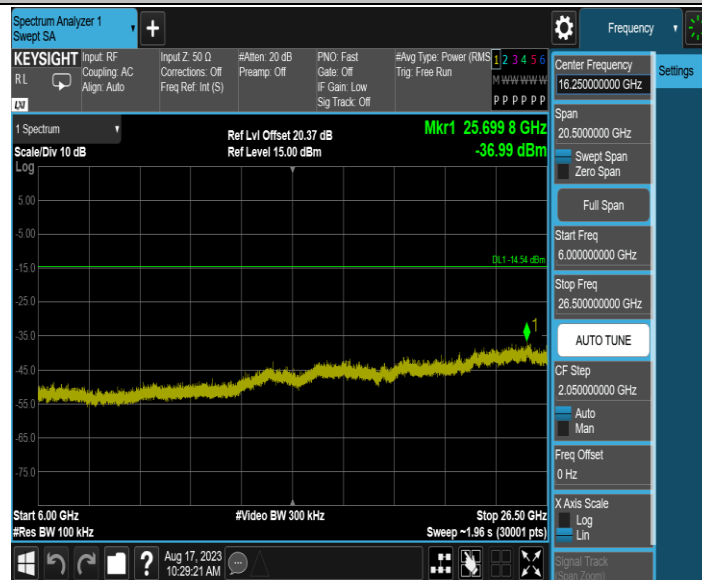
11AX40MIMO_Ant2_2452_30~1000



11AX40MIMO_Ant2_2452_1000~6000



11AX40MIMO_Ant2_2452_6000~26500



3.4 6dB Bandwidth And 99% Occupied Bandwidth

3.4.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

3.4.2 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	

a) The EUT was connected to the tonscond test system, and the spectrum analyser is set as follow:

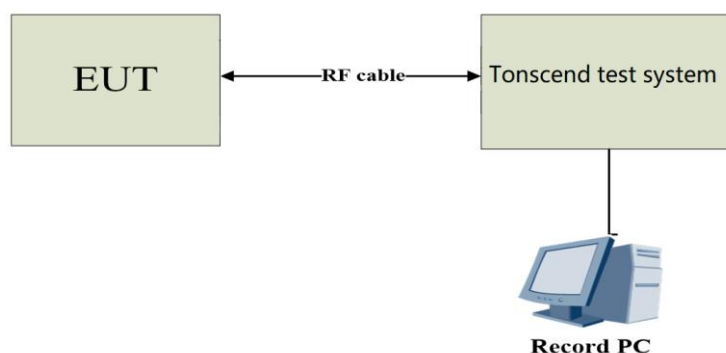
Centre Frequency	The centre frequency of the channel under test
RBW	For 6dB Bandwidth :100K For 99% Occupied Bandwidth :1% to 5% of the occupied bandwidth
VBW	For 6dB Bandwidth : $\geq 3 \times \text{RBW}$ For 99% Occupied Bandwidth : approximately $3 \times \text{RBW}$
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.

c) Use the -6dB bandwidth function of the spectrum analyser to measure the 6dB Bandwidth of the EUT. This value shall be recorded.

d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.4.3 Test Setup



3.4.4 Test Result

DTS Bandwidth

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-MIMO	Ant1	2412	7.040	2408.480	2415.520	0.5	PASS
	Ant2	2412	6.600	2408.480	2415.080	0.5	PASS
	Ant1	2437	7.080	2433.480	2440.560	0.5	PASS
	Ant2	2437	7.520	2432.960	2440.480	0.5	PASS
	Ant1	2462	7.480	2458.000	2465.480	0.5	PASS
	Ant2	2462	8.000	2458.000	2466.000	0.5	PASS
11N20MIMO	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant2	2412	16.360	2403.840	2420.200	0.5	PASS
	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant2	2437	16.280	2428.880	2445.160	0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
	Ant2	2462	16.320	2453.840	2470.160	0.5	PASS
11N40MIMO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
	Ant2	2422	36.080	2404.080	2440.160	0.5	PASS
	Ant1	2437	36.320	2418.840	2455.160	0.5	PASS
	Ant2	2437	36.320	2418.840	2455.160	0.5	PASS
	Ant1	2452	36.080	2433.840	2469.920	0.5	PASS
	Ant2	2452	36.320	2433.840	2470.160	0.5	PASS
11AX20MIMO	Ant1	2412	18.520	2402.760	2421.280	0.5	PASS
	Ant2	2412	18.760	2402.720	2421.480	0.5	PASS
	Ant1	2437	18.920	2427.560	2446.480	0.5	PASS
	Ant2	2437	18.640	2427.800	2446.440	0.5	PASS
	Ant1	2462	18.800	2452.560	2471.360	0.5	PASS
	Ant2	2462	18.640	2452.720	2471.360	0.5	PASS
11AX40MIMO	Ant1	2422	37.440	2403.360	2440.800	0.5	PASS
	Ant2	2422	37.520	2403.200	2440.720	0.5	PASS
	Ant1	2437	37.440	2418.200	2455.640	0.5	PASS
	Ant2	2437	36.800	2418.760	2455.560	0.5	PASS
	Ant1	2452	37.040	2433.200	2470.240	0.5	PASS
	Ant2	2452	37.280	2433.360	2470.640	0.5	PASS

11B-MIMO_Ant1_2412



11B-MIMO_Ant2_2412



11B-MIMO_Ant1_2437



11B-MIMO_Ant2_2437



11B-MIMO_Ant1_2462



11B-MIMO_Ant2_2462



11N20MIMO_Ant1_2412



11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



11N20MIMO_Ant2_2437



11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422



11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



11AX20MIMO_Ant1_2412



11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



11AX20MIMO_Ant2_2437



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



11AX40MIMO_Ant1_2422



11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



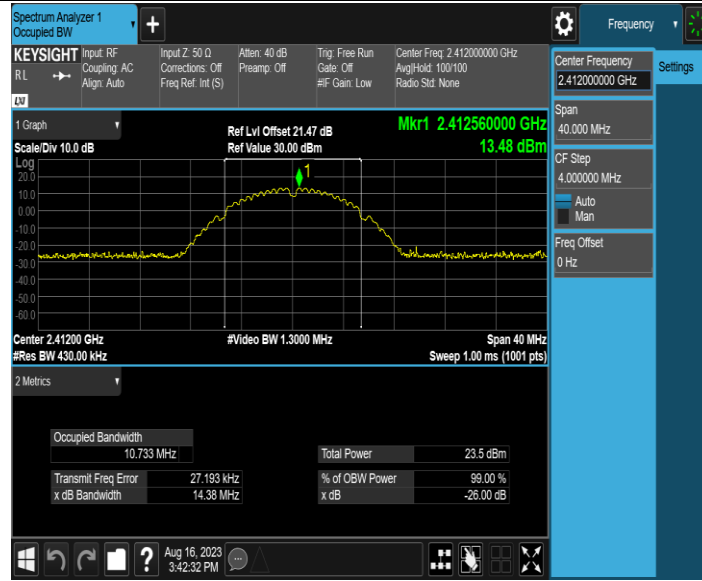
11AX40MIMO_Ant2_2452



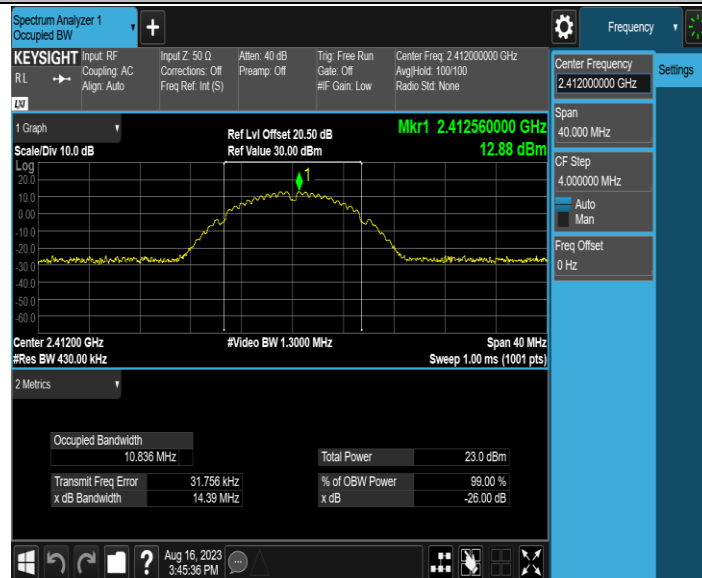
Occupied Channel Bandwidth

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-MIMO	Ant1	2412	10.733	2406.6607	2417.3937	---	---
	Ant2	2412	10.836	2406.6138	2417.4498	---	---
	Ant1	2437	12.463	2430.7791	2443.2421	---	---
	Ant2	2437	13.012	2430.4794	2443.4914	---	---
	Ant1	2462	12.460	2455.7488	2468.2088	---	---
	Ant2	2462	12.894	2455.5292	2468.4232	---	---
11N20MIMO	Ant1	2412	18.483	2402.7983	2421.2813	---	---
	Ant2	2412	18.129	2402.9533	2421.0823	---	---
	Ant1	2437	18.590	2427.6949	2446.2849	---	---
	Ant2	2437	18.317	2427.8262	2446.1432	---	---
	Ant1	2462	18.521	2452.7118	2471.2328	---	---
	Ant2	2462	18.202	2452.8527	2471.0547	---	---
11N40MIMO	Ant1	2422	36.637	2403.6474	2440.2844	---	---
	Ant2	2422	36.530	2403.7032	2440.2332	---	---
	Ant1	2437	36.638	2418.6102	2455.2482	---	---
	Ant2	2437	36.567	2418.6841	2455.2511	---	---
	Ant1	2452	36.756	2433.4929	2470.2489	---	---
	Ant2	2452	36.625	2433.5711	2470.1961	---	---
11AX20MIMO	Ant1	2412	19.233	2402.3772	2421.6102	---	---
	Ant2	2412	19.220	2402.3977	2421.6177	---	---
	Ant1	2437	19.329	2427.3311	2446.6601	---	---
	Ant2	2437	19.247	2427.3886	2446.6356	---	---
	Ant1	2462	19.210	2452.3402	2471.5502	---	---
	Ant2	2462	19.226	2452.3567	2471.5827	---	---
11AX40MIMO	Ant1	2422	37.750	2403.1026	2440.8526	---	---
	Ant2	2422	37.703	2403.1132	2440.8162	---	---
	Ant1	2437	37.725	2418.0926	2455.8176	---	---
	Ant2	2437	37.649	2418.1461	2455.7951	---	---
	Ant1	2452	37.712	2433.0286	2470.7406	---	---
	Ant2	2452	37.690	2433.0675	2470.7575	---	---

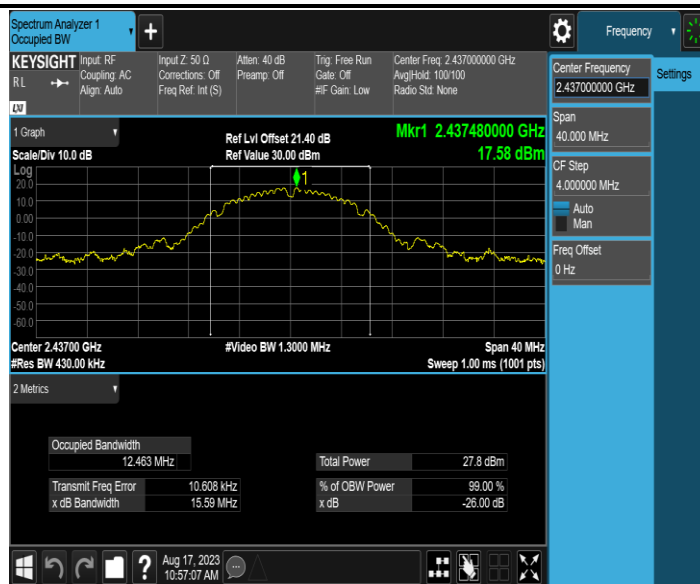
11B-MIMO_Ant1_2412



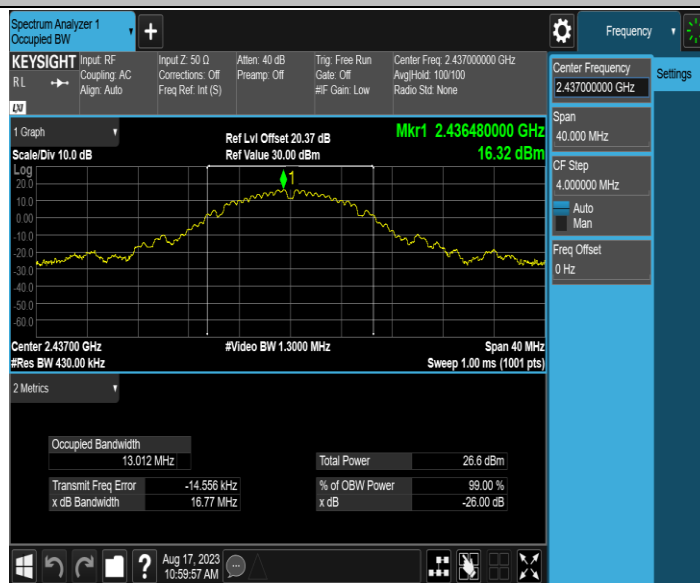
11B-MIMO_Ant2_2412



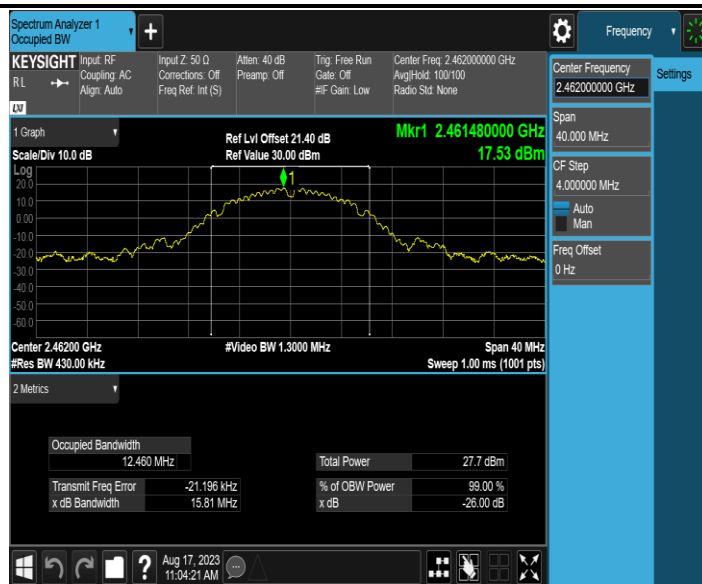
11B-MIMO_Ant1_2437



11B-MIMO_Ant2_2437



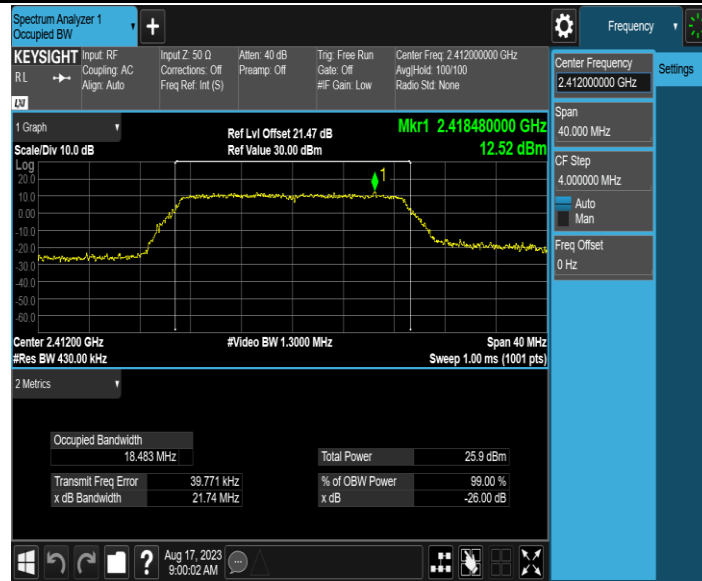
11B-MIMO_Ant1_2462



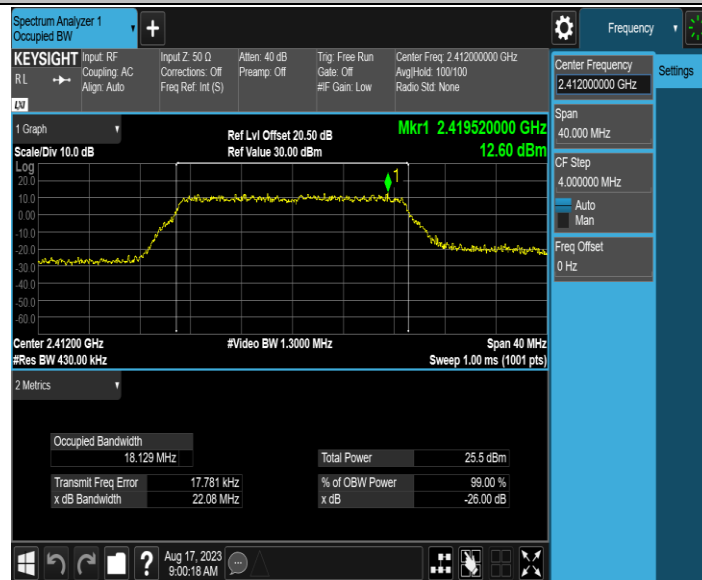
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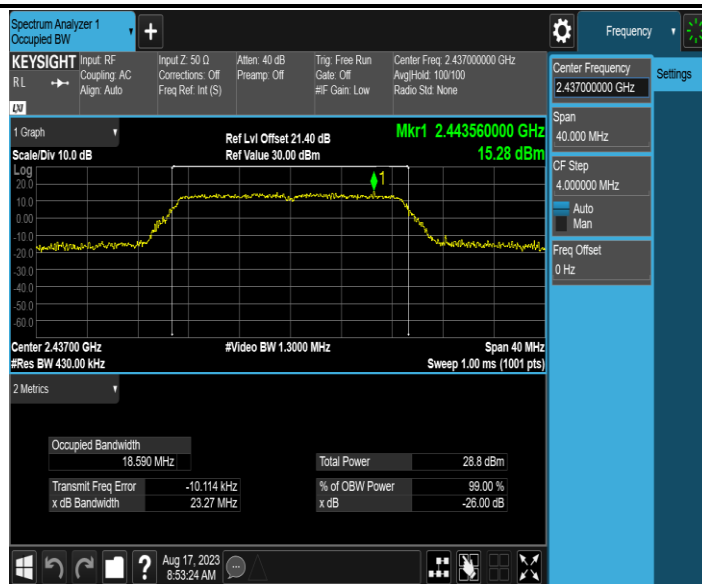
11N20MIMO_Ant1_2412



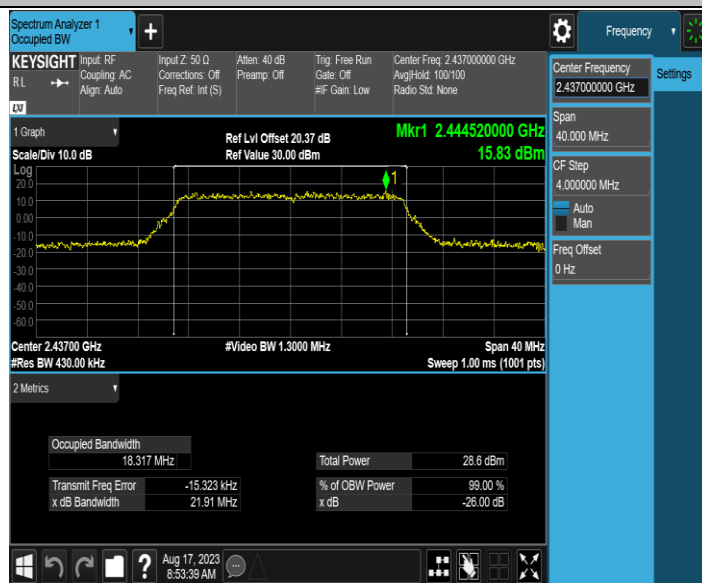
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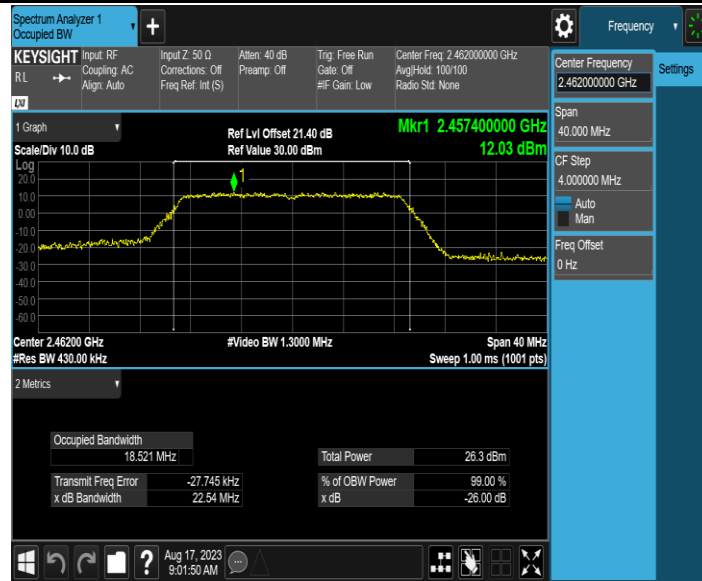
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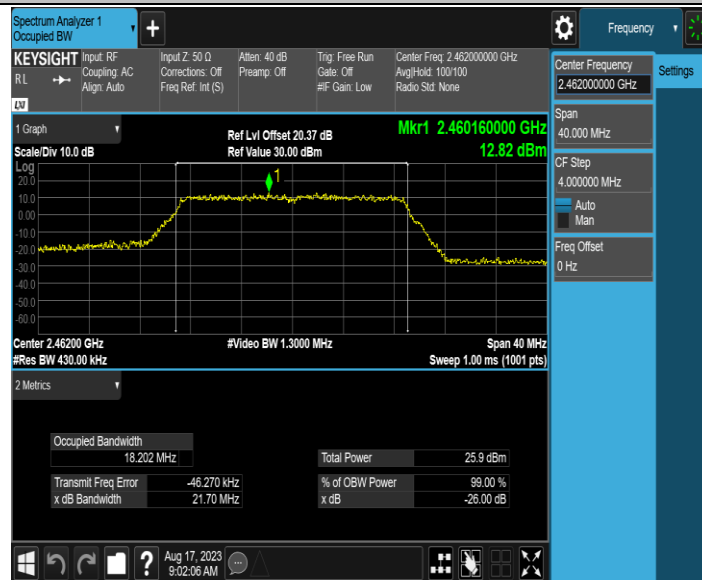
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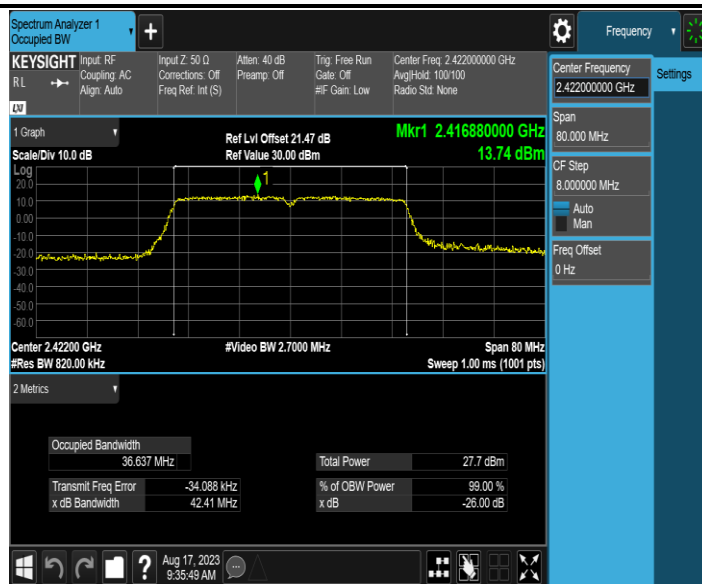
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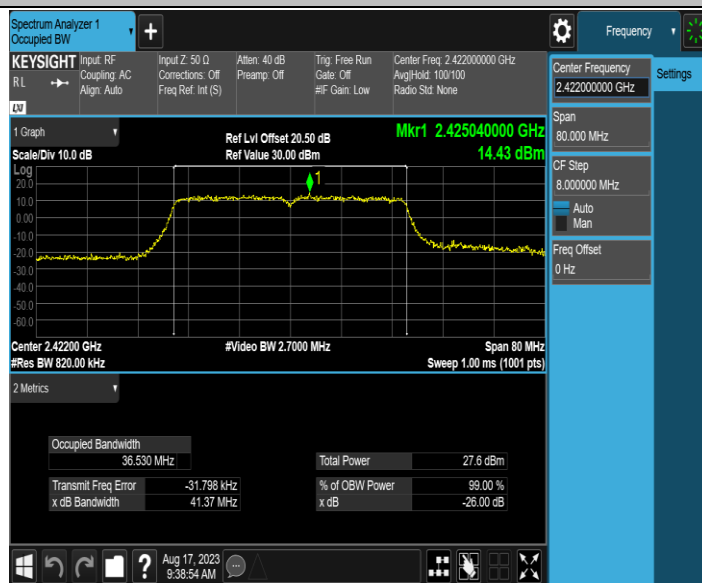
11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422



11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437