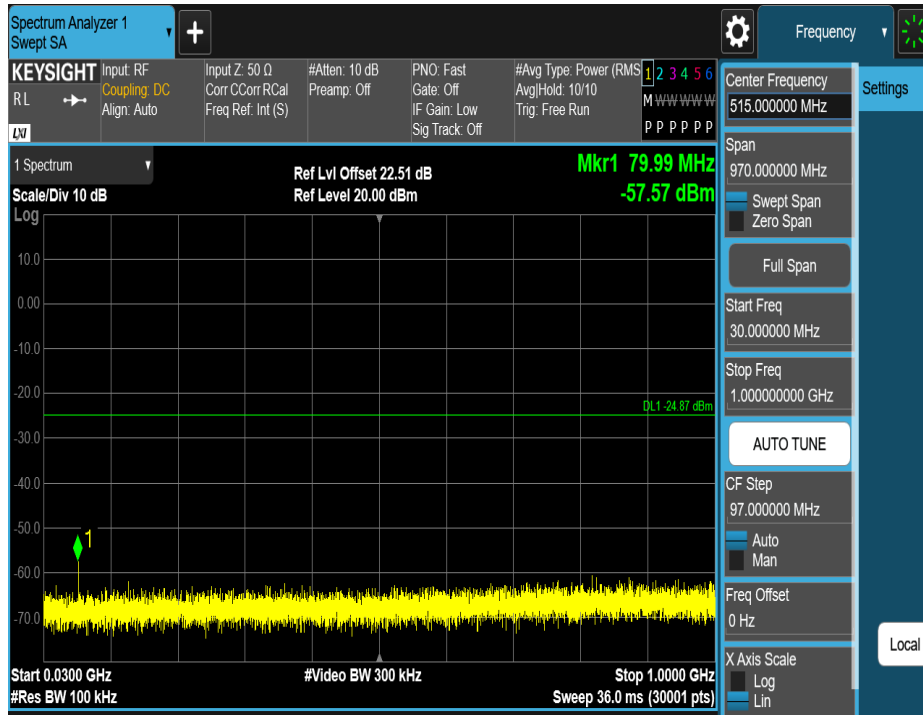


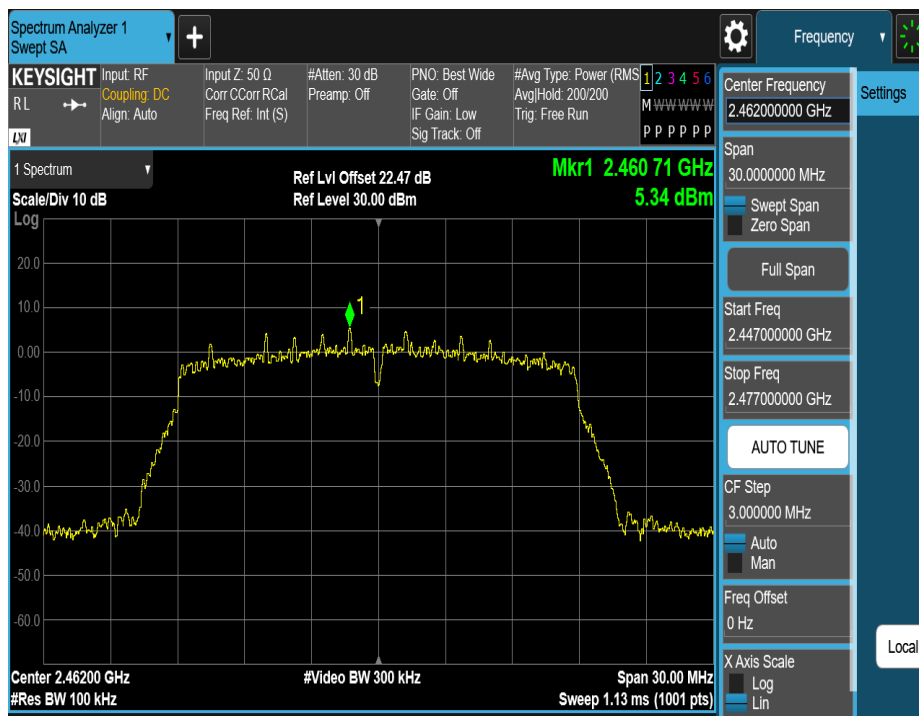
11N20MIMO_Ant2_2437_30~1000



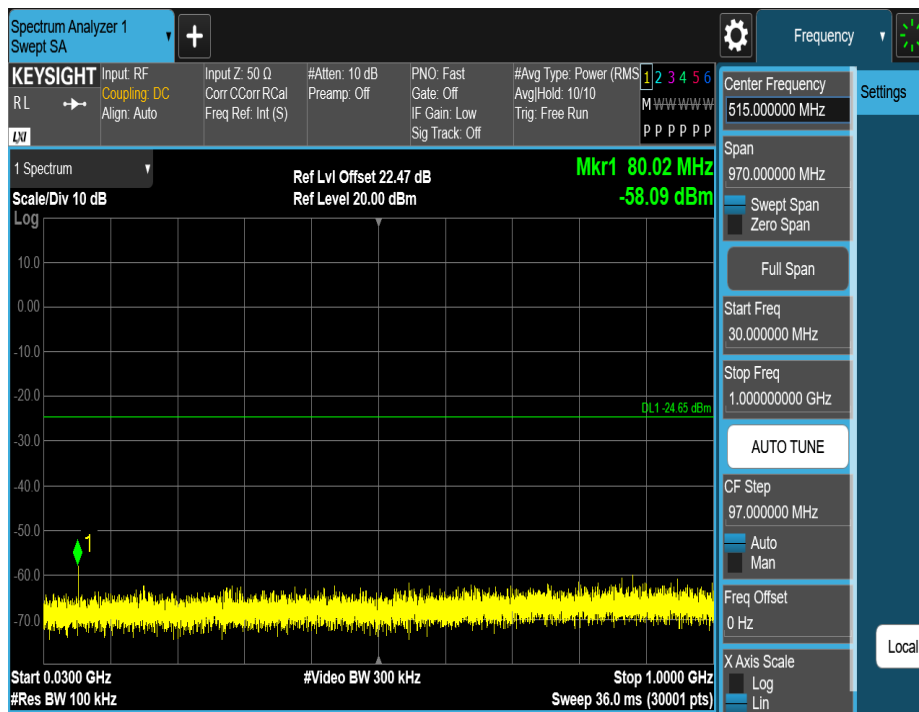
11N20MIMO_Ant2_2437_1000~26500



11N20MIMO_Ant1_2462_0~Reference



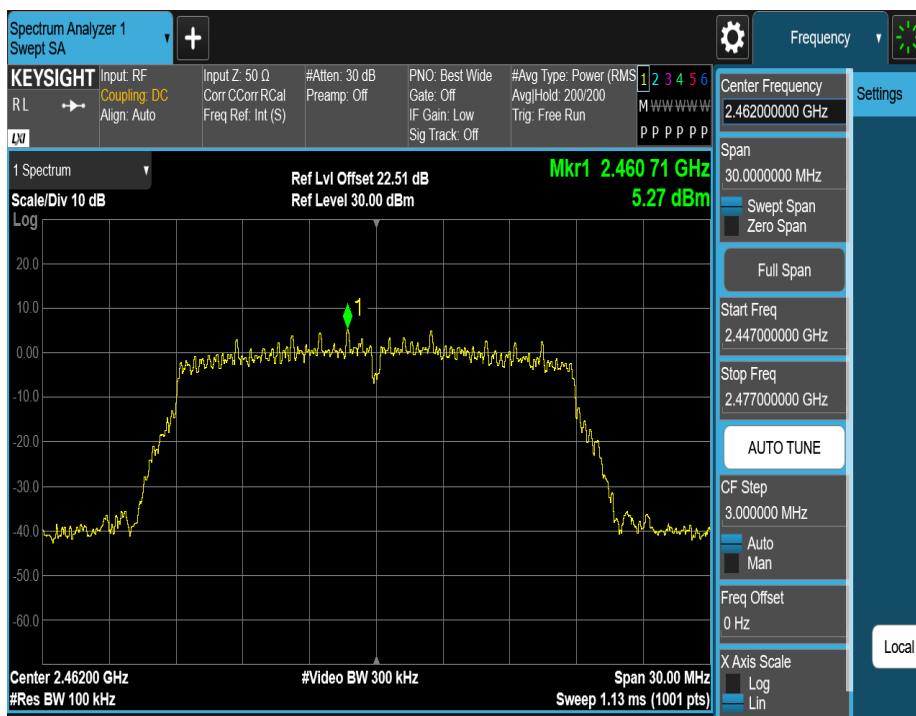
11N20MIMO_Ant1_2462_30~1000



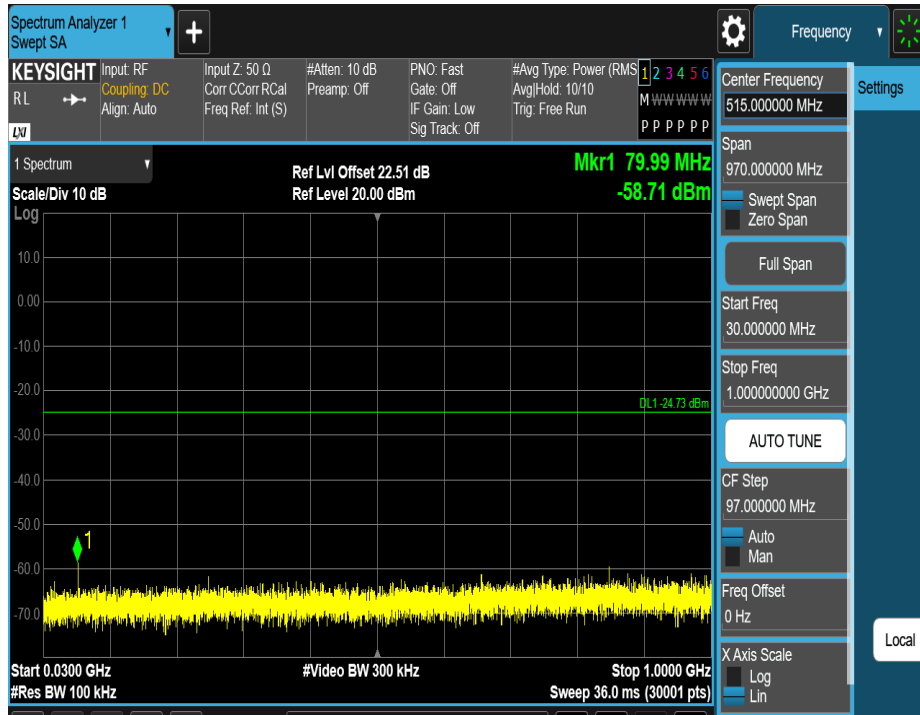
11N20MIMO_Ant1_2462_1000~26500



11N20MIMO_Ant2_2462_0~Reference



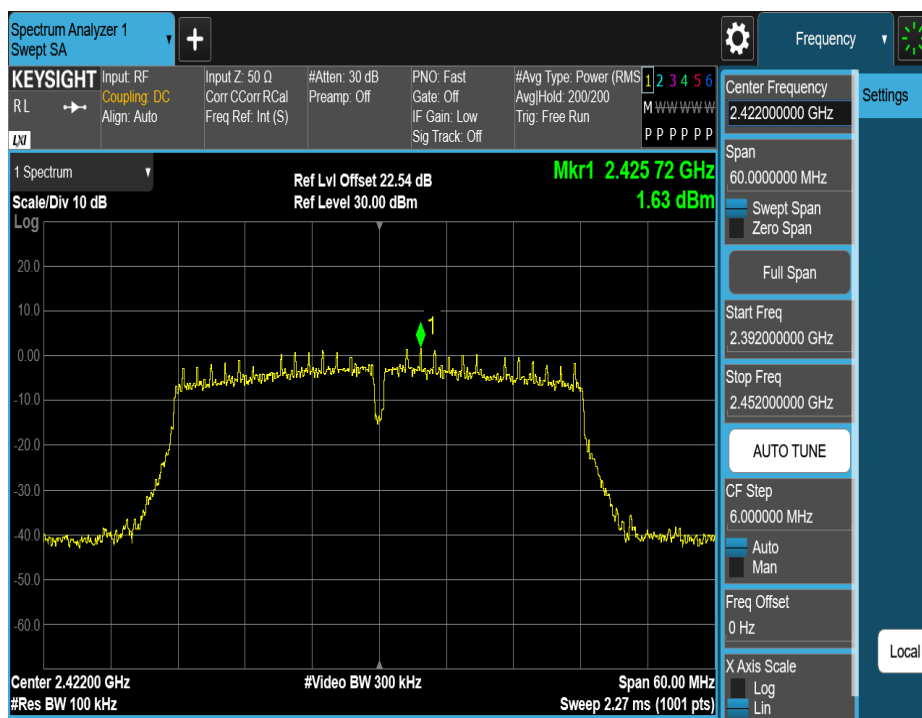
11N20MIMO_Ant2_2462_30~1000



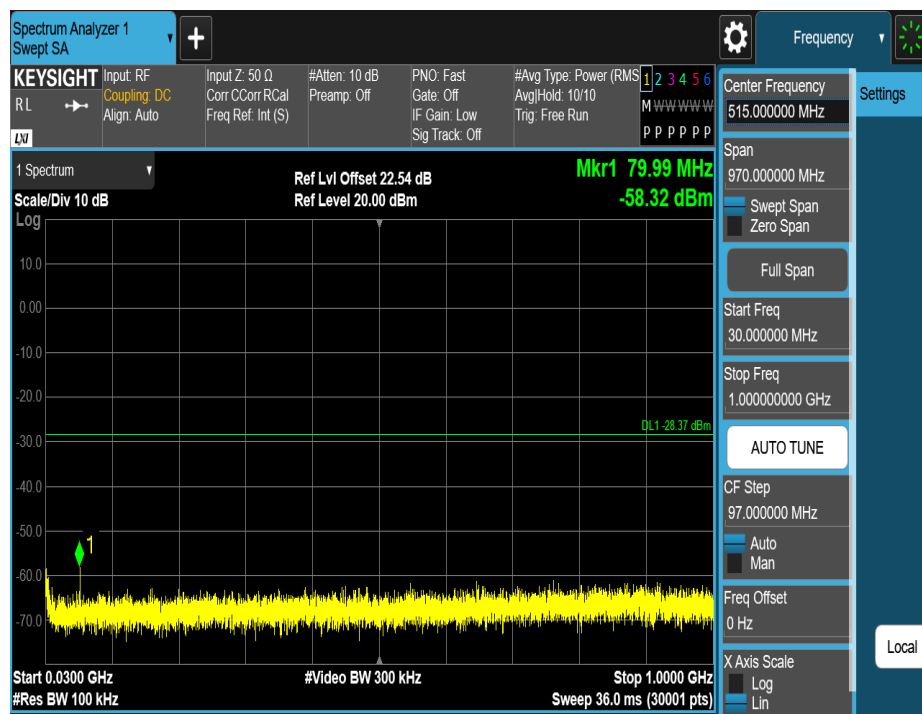
11N20MIMO_Ant2_2462_1000~26500



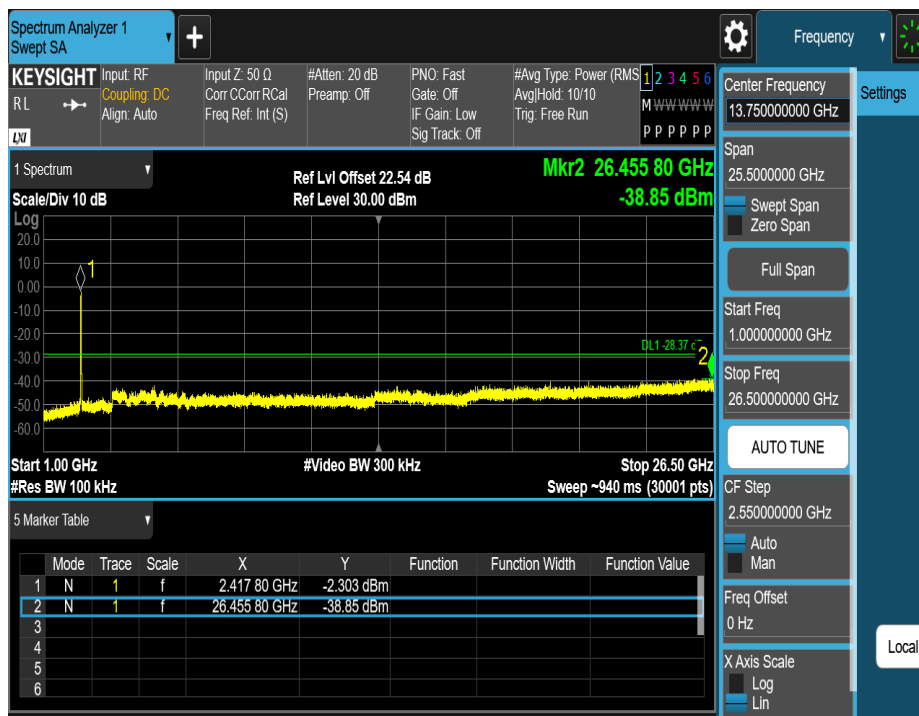
11N40MIMO_Ant1_2422_0~Reference



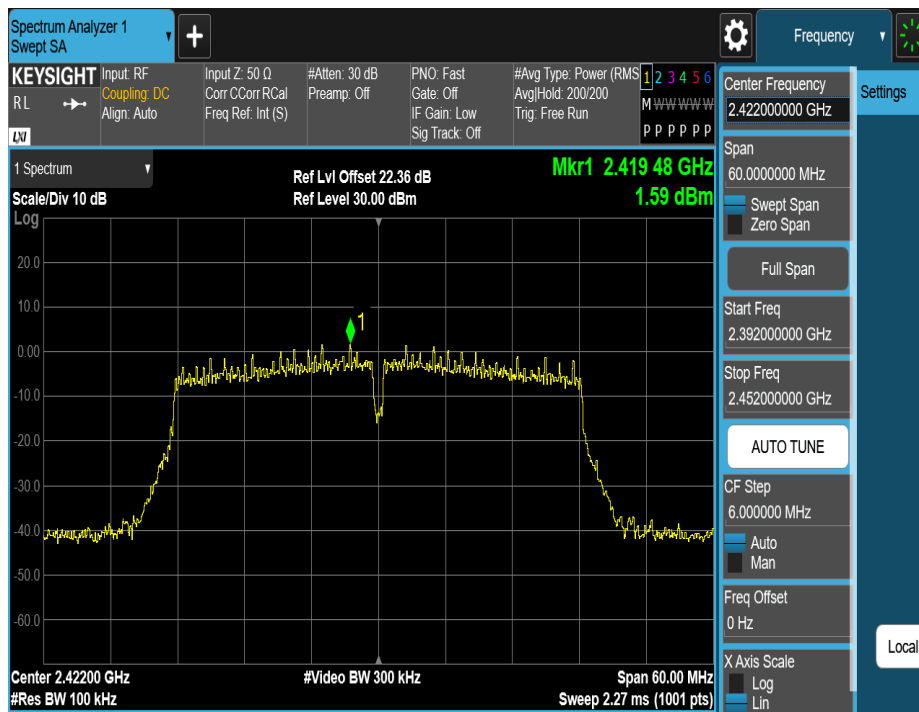
11N40MIMO_Ant1_2422_30~1000



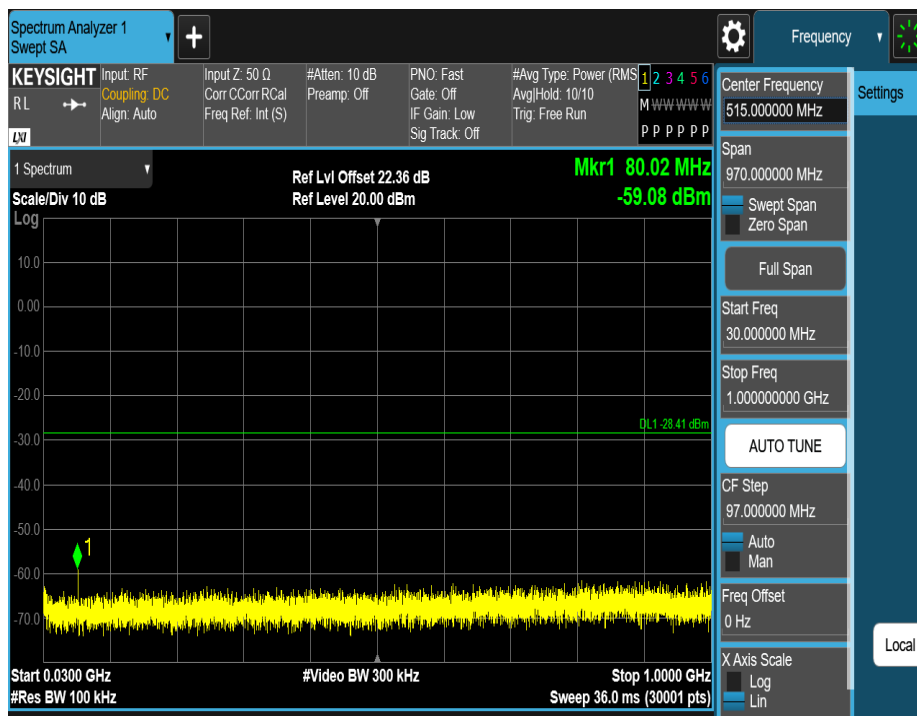
11N40MIMO_Ant1_2422_1000~26500



11N40MIMO_Ant2_2422_0~Reference



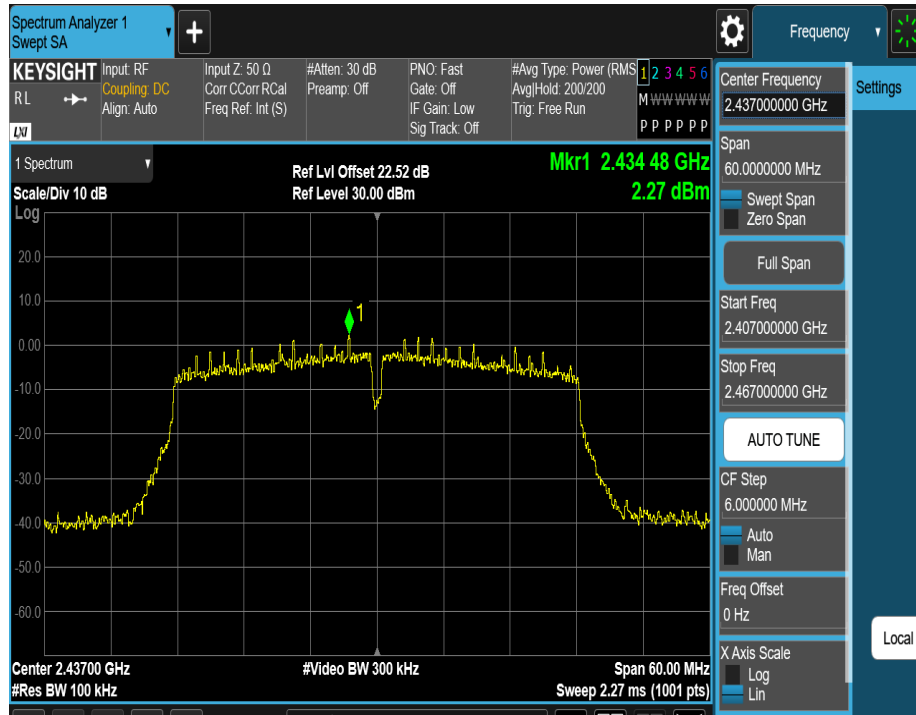
11N40MIMO_Ant2_2422_30~1000



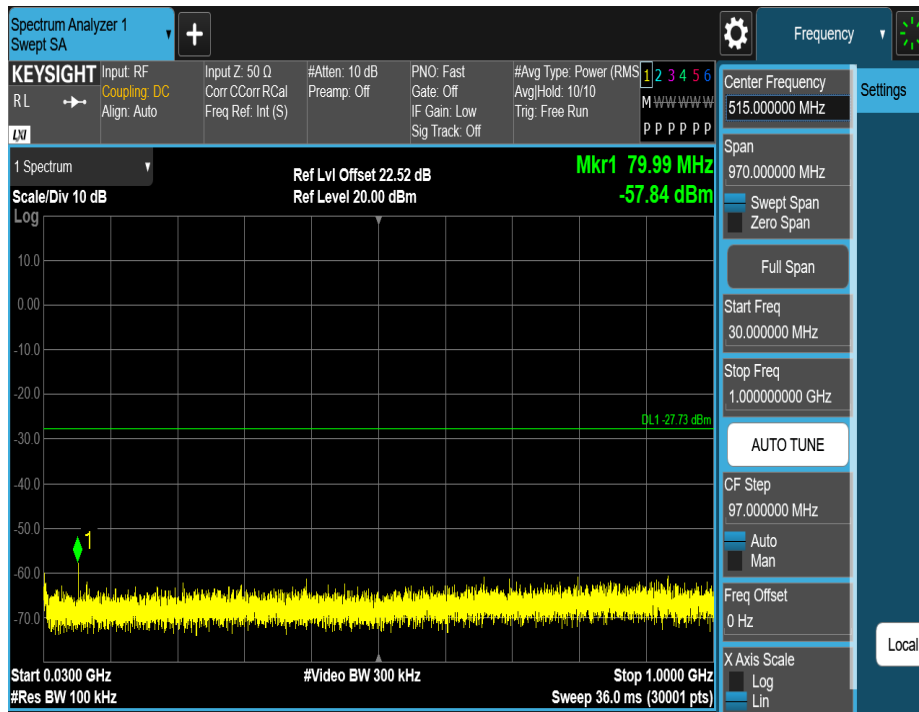
11N40MIMO_Ant2_2422_1000~26500



11N40MIMO_Ant1_2437_0~Reference



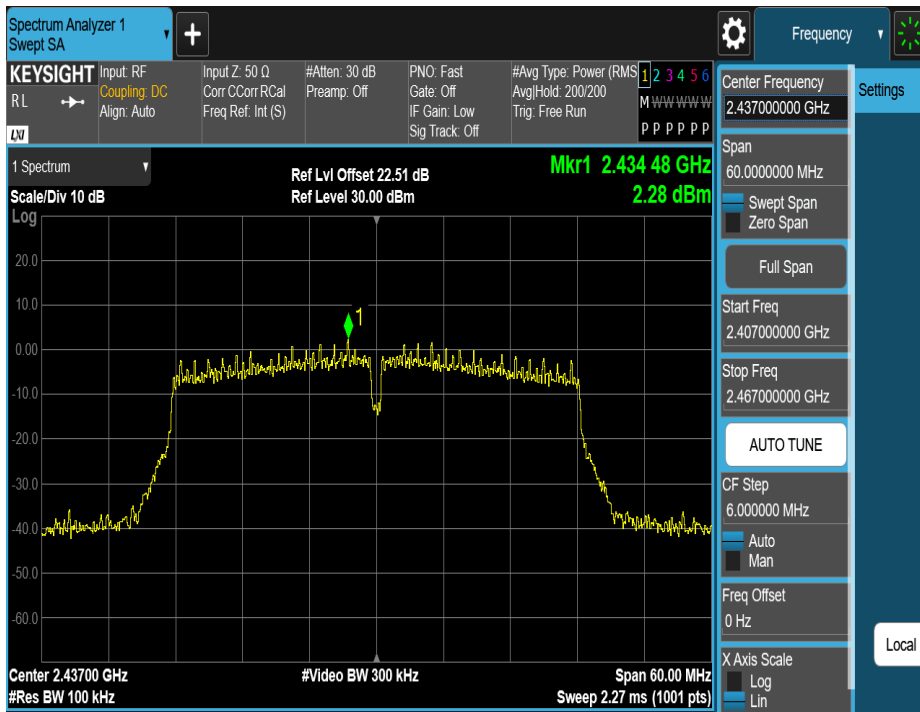
11N40MIMO_Ant1_2437_30~1000



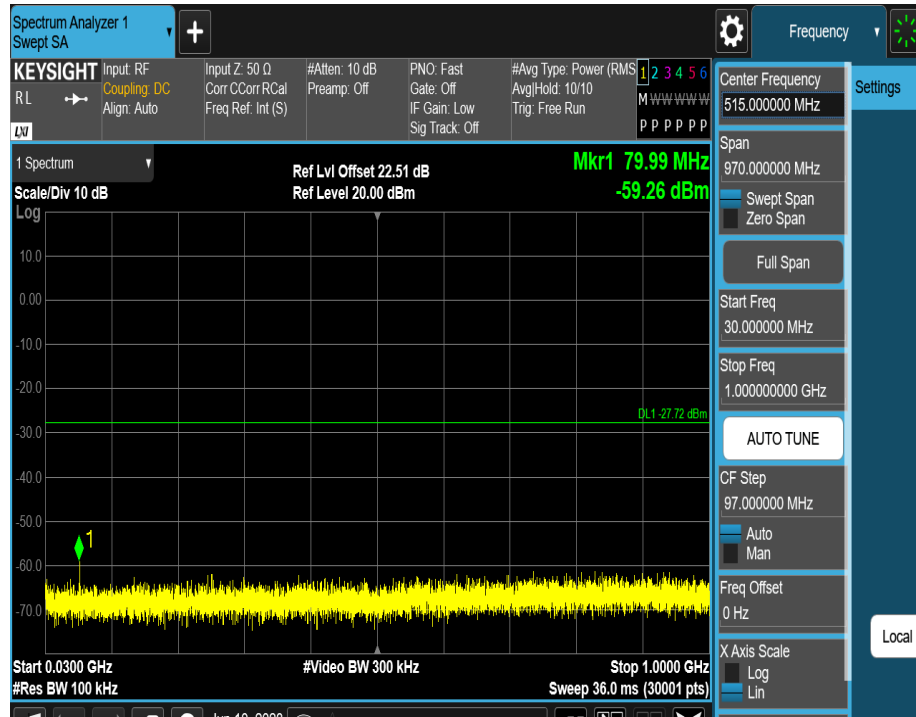
11N40MIMO_Ant1_2437_1000~26500



11N40MIMO_Ant2_2437_0~Reference



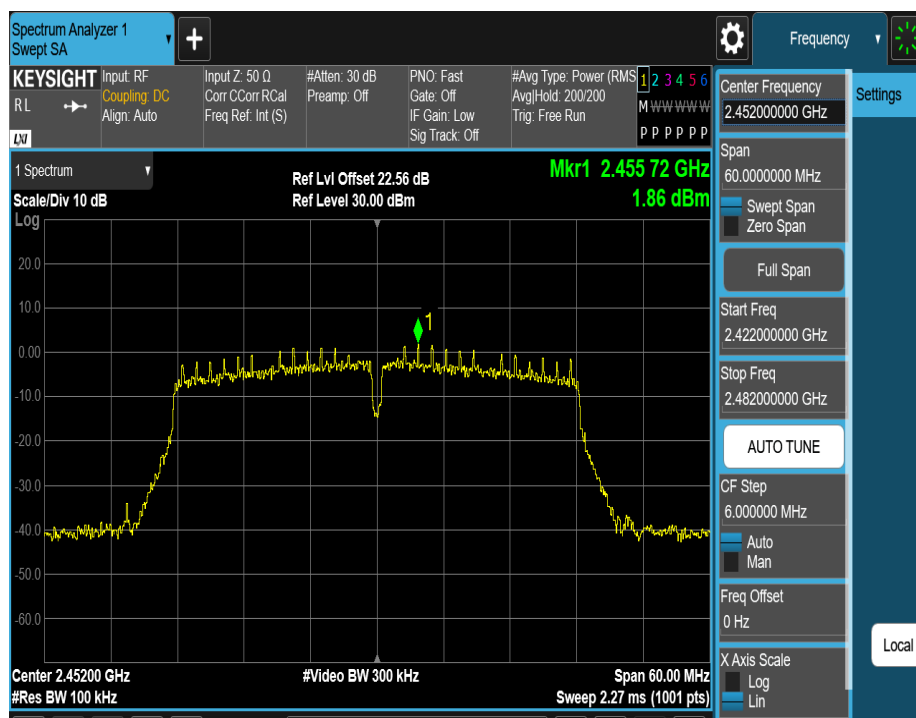
11N40MIMO_Ant2_2437_30~1000



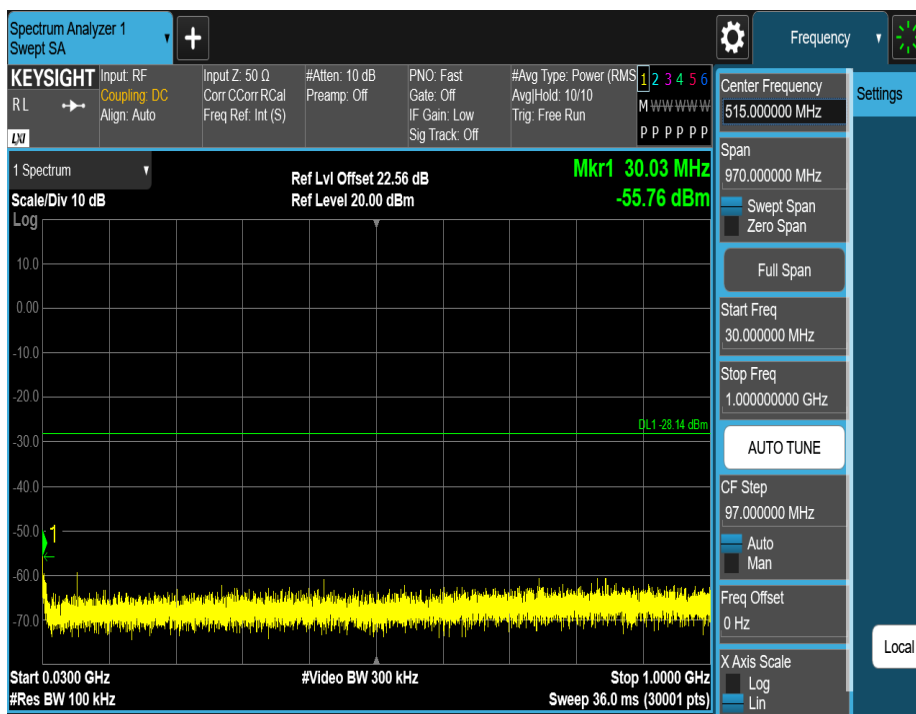
11N40MIMO_Ant2_2437_1000~26500



11N40MIMO_Ant1_2452_0~Reference



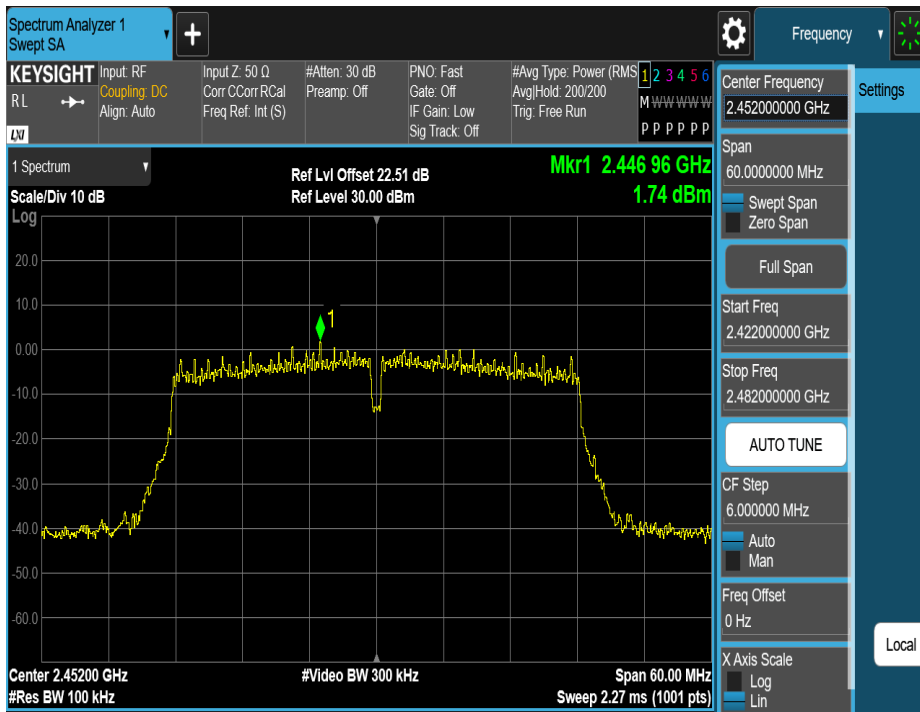
11N40MIMO_Ant1_2452_30~1000



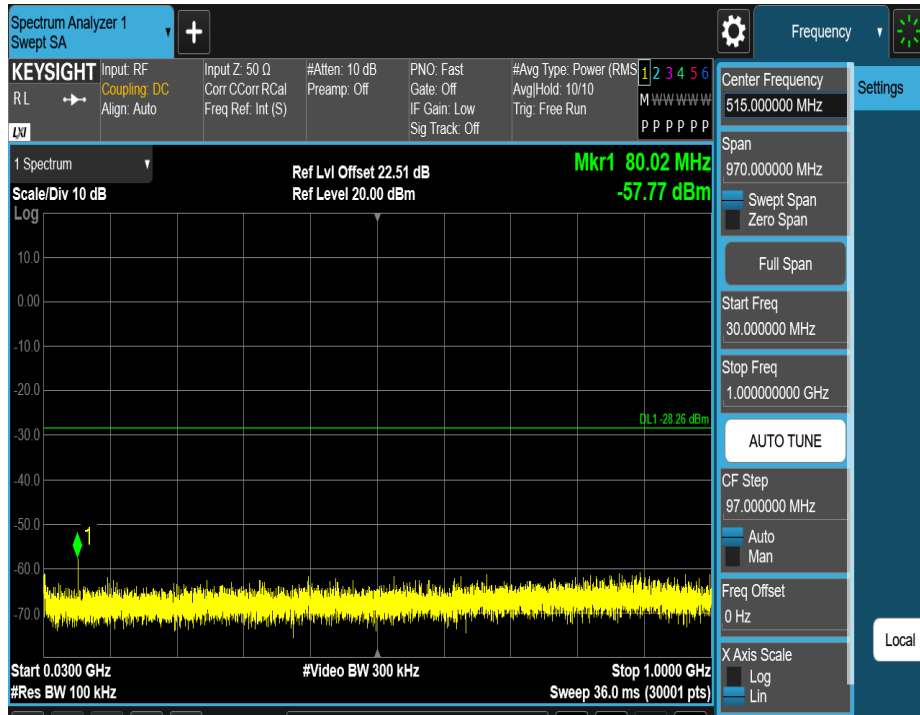
11N40MIMO_Ant1_2452_1000~26500



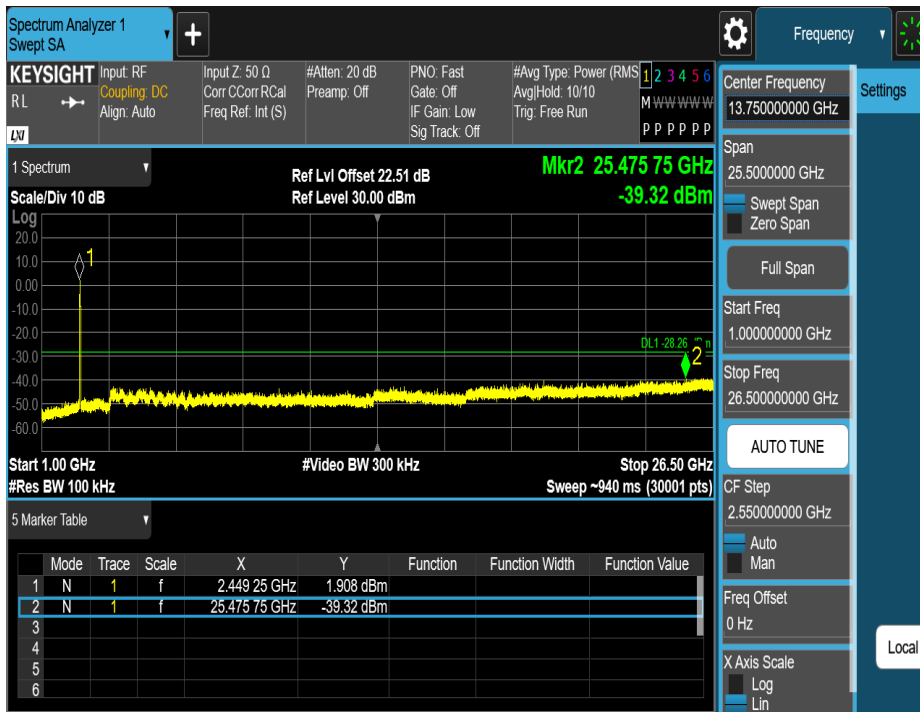
11N40MIMO_Ant2_2452_0~Reference



11N40MIMO_Ant2_2452_30~1000



11N40MIMO_Ant2_2452_1000~26500



Band edge

11B-CDD_Ant1_Low_2412



11B-CDD_Ant2_Low_2412



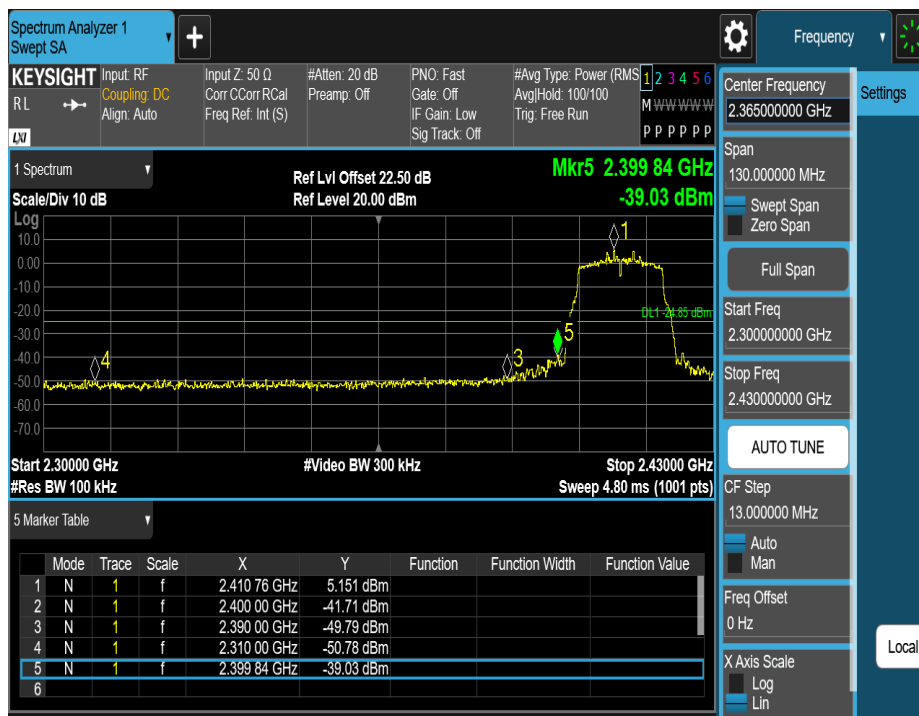
11B-CDD_Ant1_High_2462



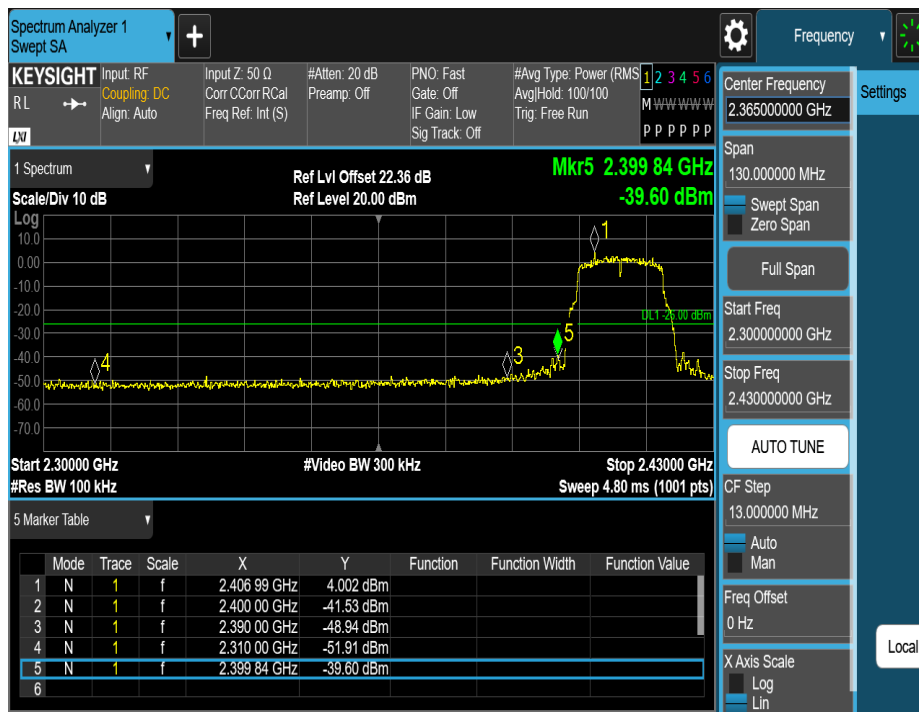
11B-CDD_Ant2_High_2462



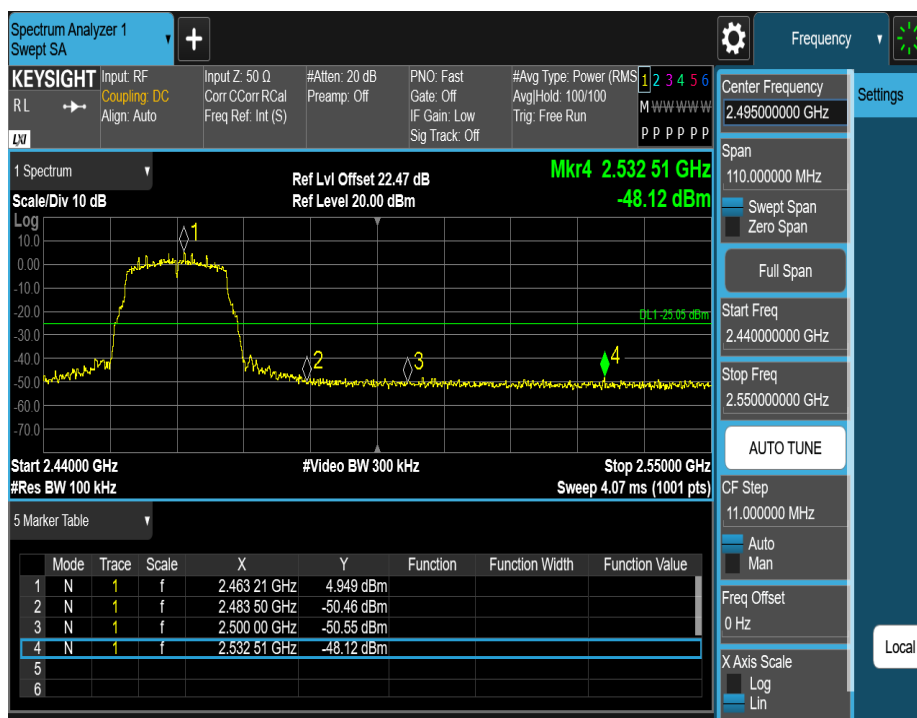
11G-CDD_Ant1_Low_2412



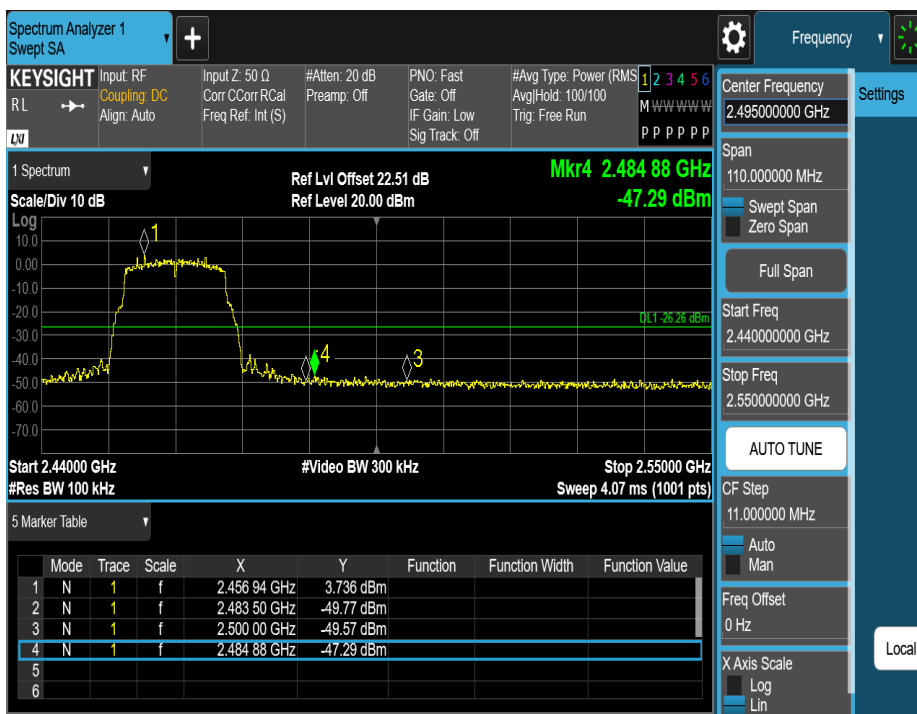
11G-CDD_Ant2_Low_2412



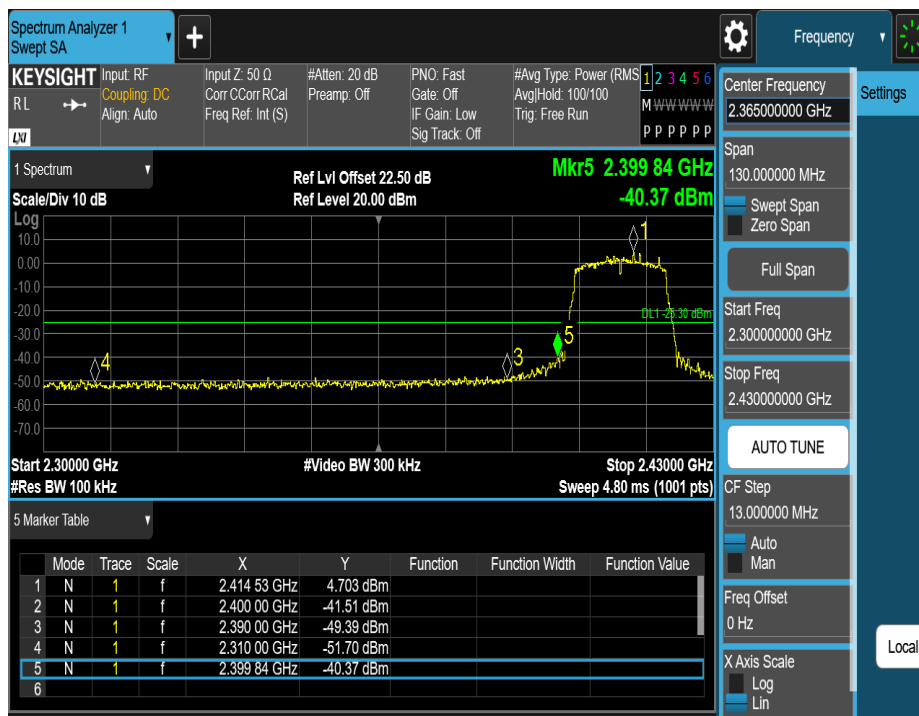
11G-CDD_Ant1_High_2462



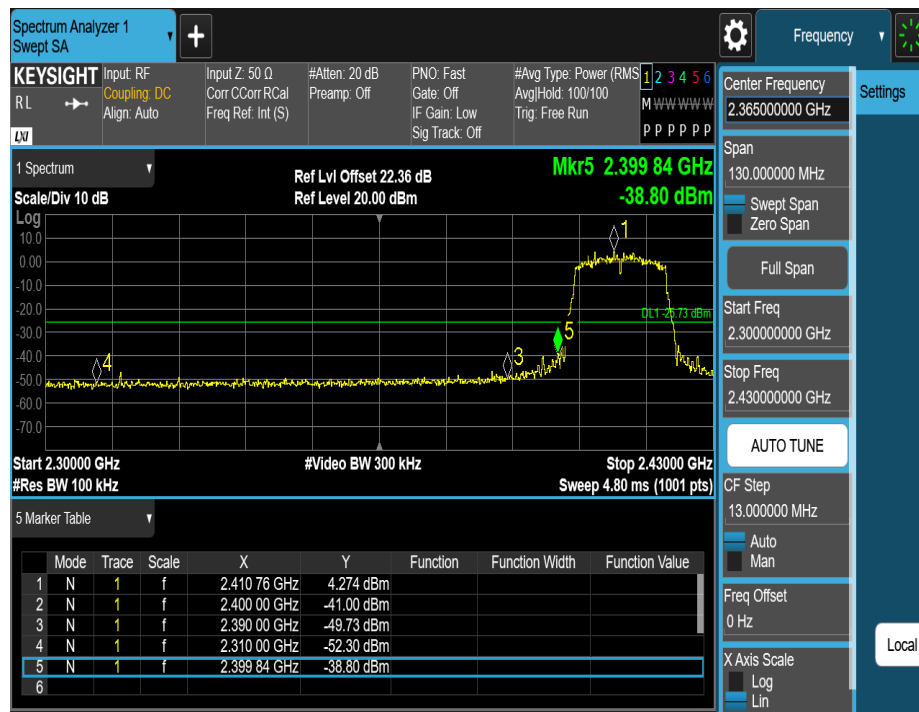
11G-CDD_Ant2_High_2462



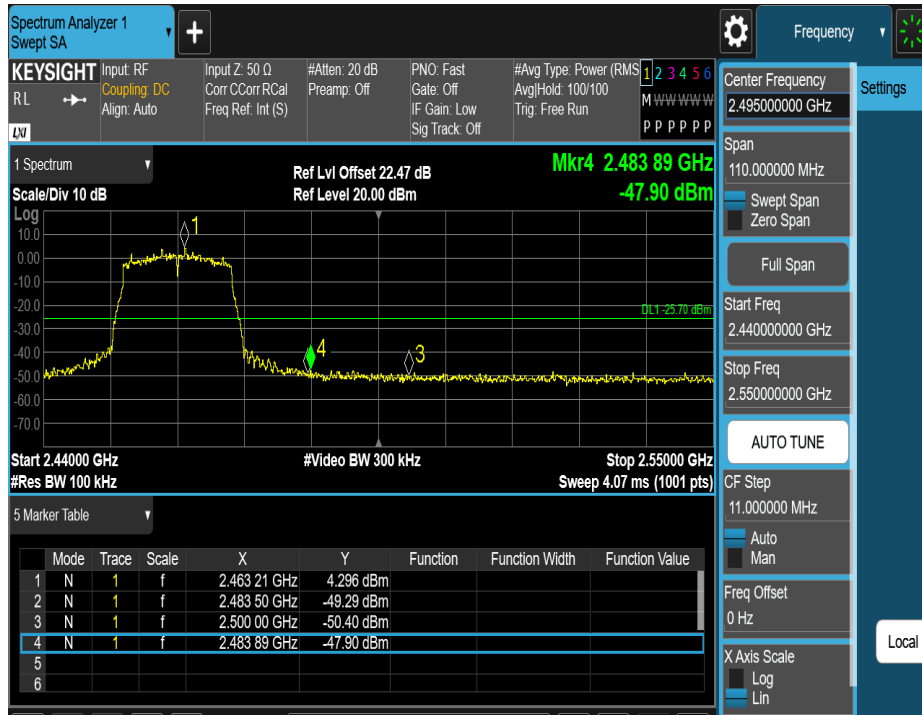
11N20MIMO_Ant1_Low_2412



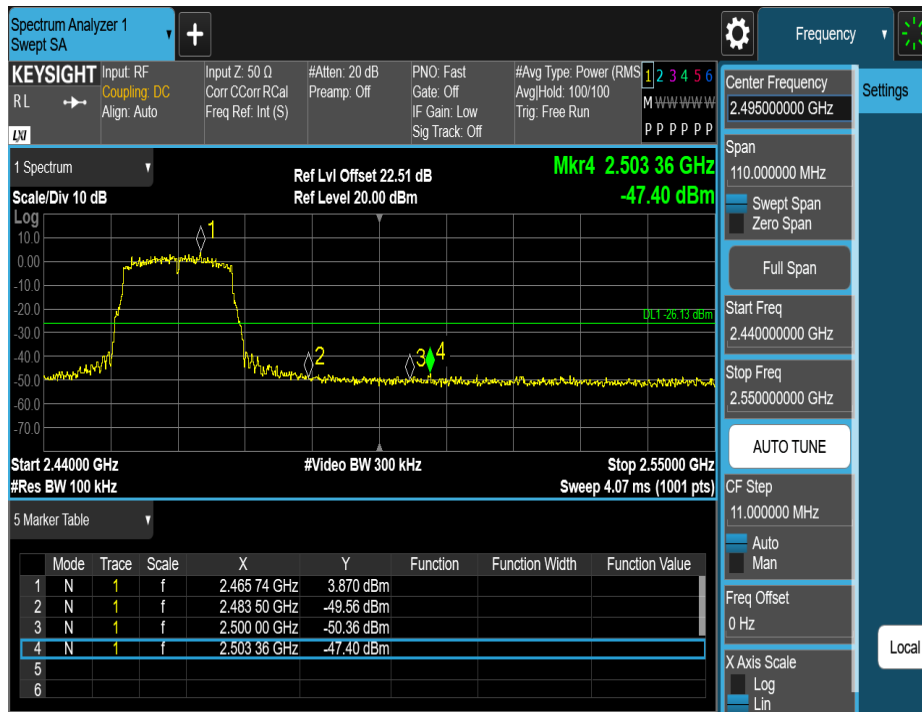
11N20MIMO_Ant2_Low_2412



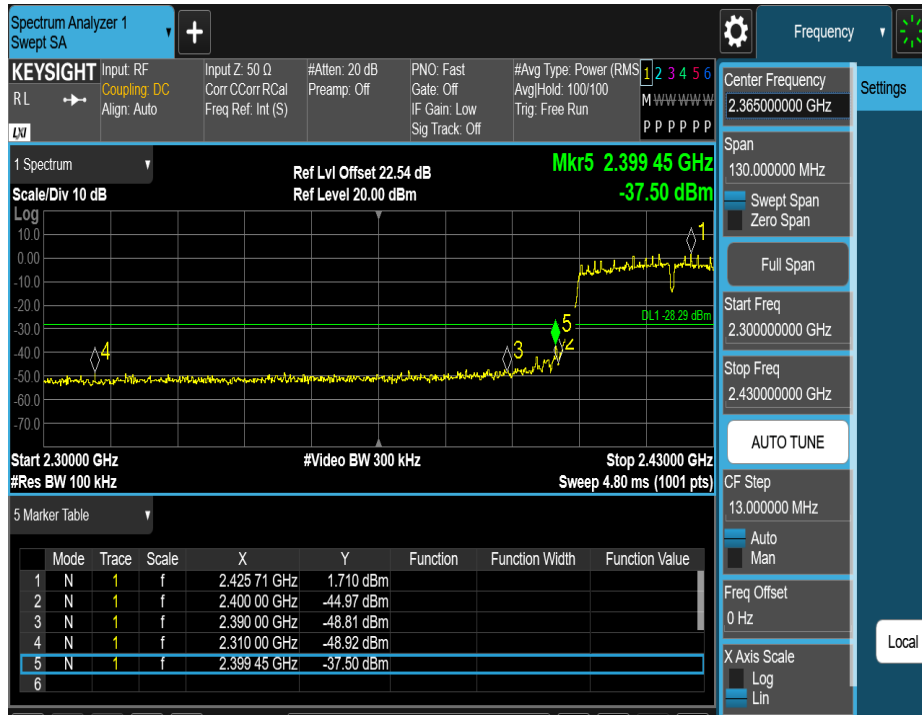
11N20MIMO_Ant1_High_2462



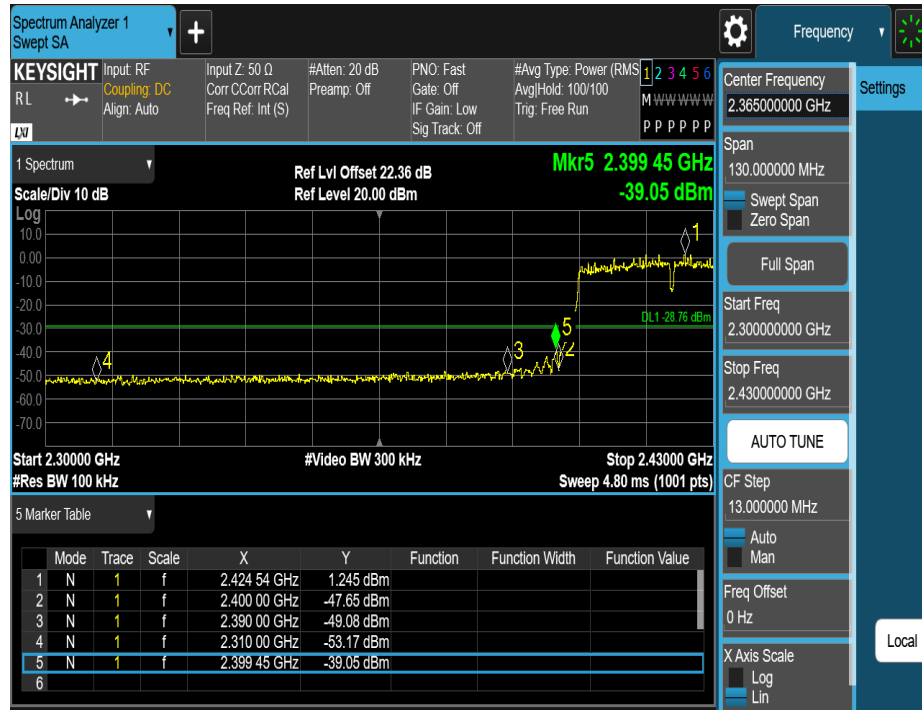
11N20MIMO_Ant2_High_2462



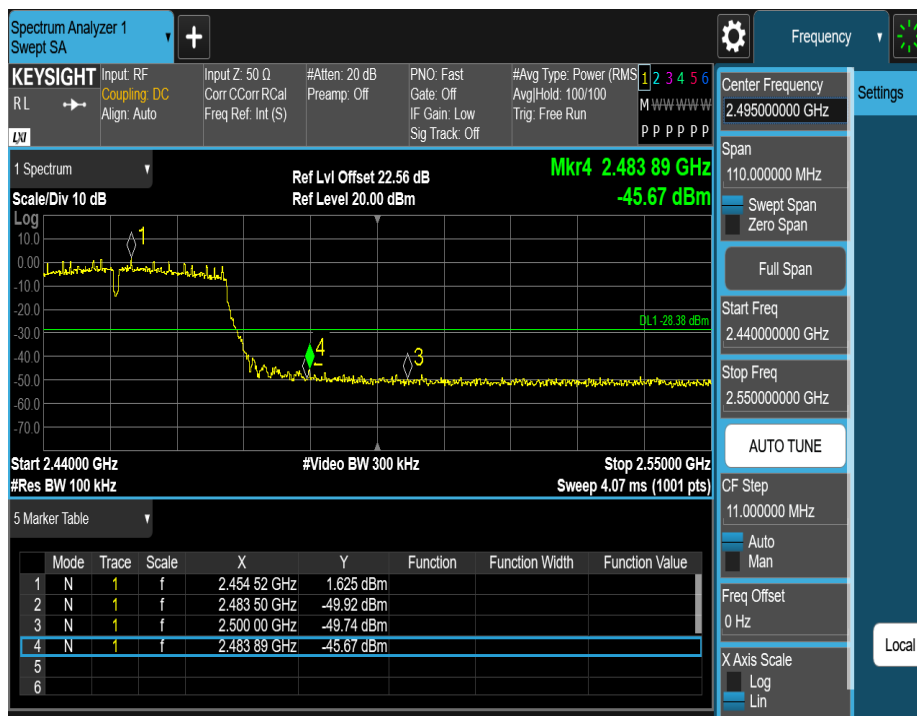
11N40MIMO_Ant1_Low_2422



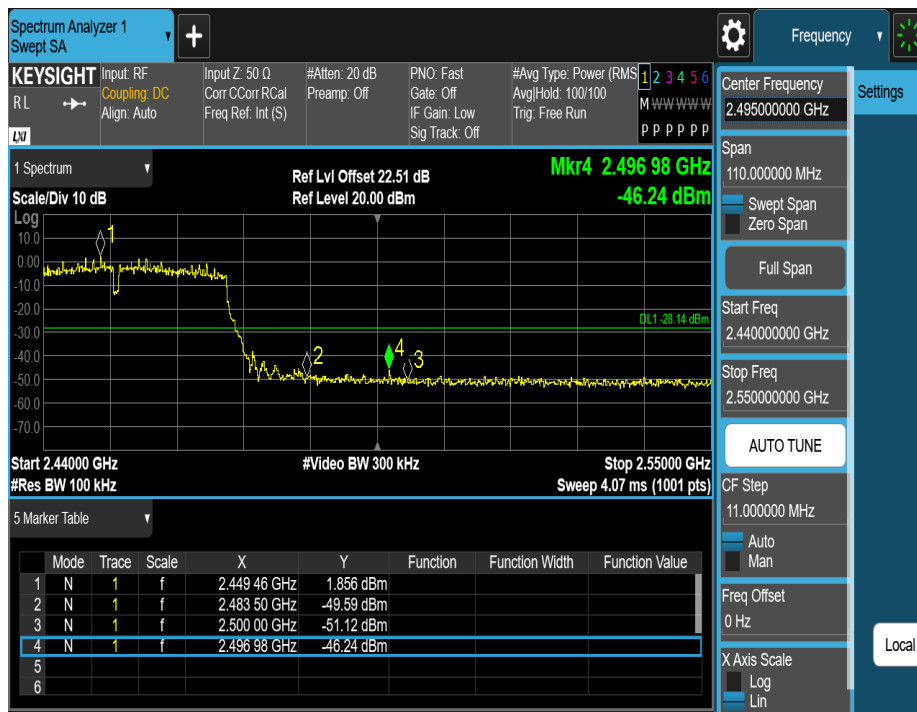
11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant1_High_2452



11N40MIMO_Ant2_High_2452



3.4 6dB Bandwidth&Occupied Channel 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 tonscend test system, and the spectrum analyser is set as follow:

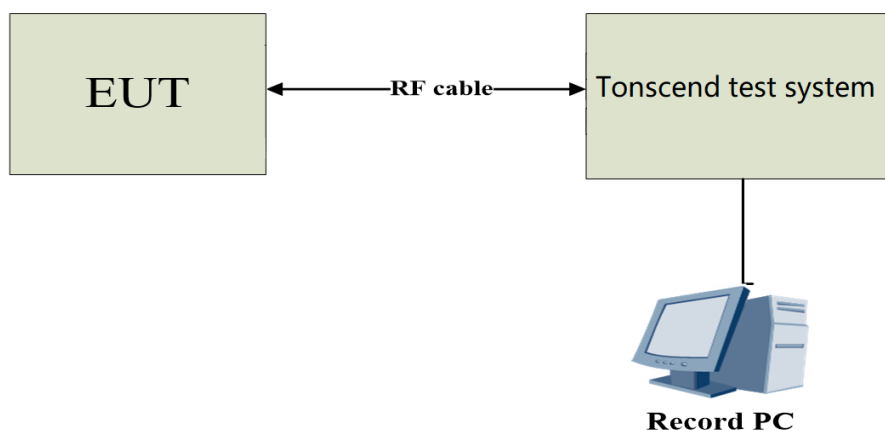
Centre Frequency	The centre frequency of the channel under test
RBW	100kHz
VBW	300kHz
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

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

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	7.480	2407.960	2415.440	0.5	PASS
	Ant2	2412	8.280	2407.440	2415.720	0.5	PASS
	Ant1	2437	7.920	2433.080	2441.000	0.5	PASS
	Ant2	2437	8.200	2432.440	2440.640	0.5	PASS
	Ant1	2462	8.080	2457.440	2465.520	0.5	PASS
	Ant2	2462	9.080	2457.440	2466.520	0.5	PASS
11G-CDD	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
	Ant2	2412	15.920	2404.200	2420.120	0.5	PASS
	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant2	2437	16.360	2428.800	2445.160	0.5	PASS
	Ant1	2462	12.560	2456.080	2468.640	0.5	PASS
	Ant2	2462	15.040	2454.440	2469.480	0.5	PASS
11N20MIMO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
	Ant2	2412	16.960	2403.800	2420.760	0.5	PASS
	Ant1	2437	17.520	2428.240	2445.760	0.5	PASS
	Ant2	2437	16.680	2428.440	2445.120	0.5	PASS
	Ant1	2462	15.280	2454.200	2469.480	0.5	PASS
	Ant2	2462	15.400	2453.840	2469.240	0.5	PASS
11N40MIMO	Ant1	2422	31.280	2404.480	2435.760	0.5	PASS
	Ant2	2422	35.360	2404.160	2439.520	0.5	PASS
	Ant1	2437	32.480	2421.960	2454.440	0.5	PASS
	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant1	2452	34.320	2434.560	2468.880	0.5	PASS
	Ant2	2452	35.360	2434.480	2469.840	0.5	PASS

Test Graphs

11B-CDD_Ant1_2412



11B-CDD_Ant2_2412



11B-CDD_Ant1_2437



11B-CDD_Ant2_2437



11B-CDD_Ant1_2462



11B-CDD_Ant2_2462



11G-CDD_Ant1_2412



11G-CDD_Ant2_2412



11G-CDD_Ant1_2437



11G-CDD_Ant2_2437



11G-CDD_Ant1_2462



11G-CDD_Ant2_2462



11N20MIMO_Ant1_2412



11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



11N20MIMO_Ant2_2437



11N20MIMO_Ant1_2462



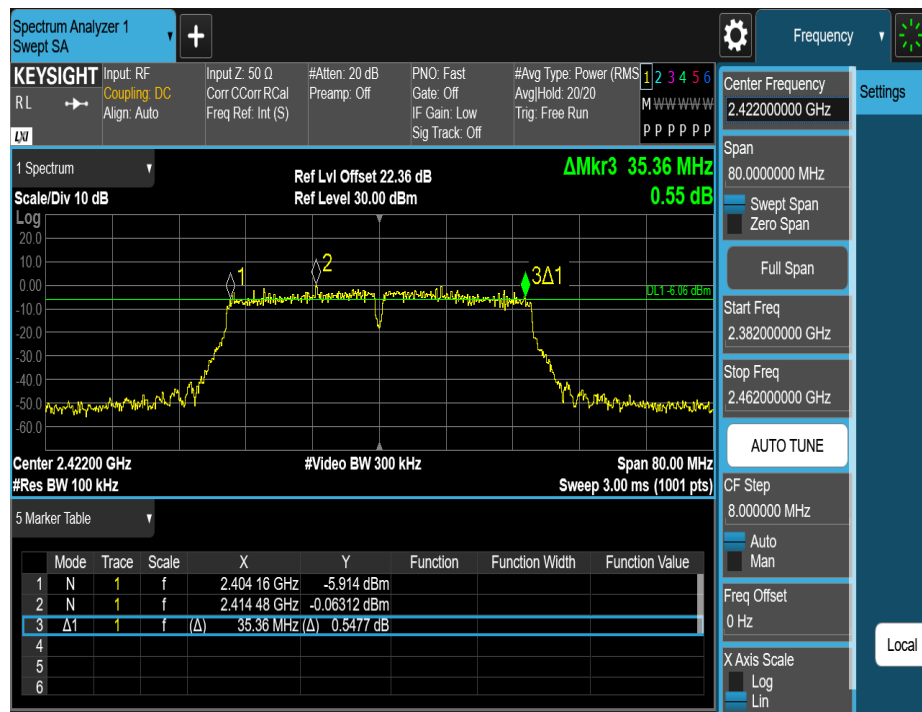
11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422



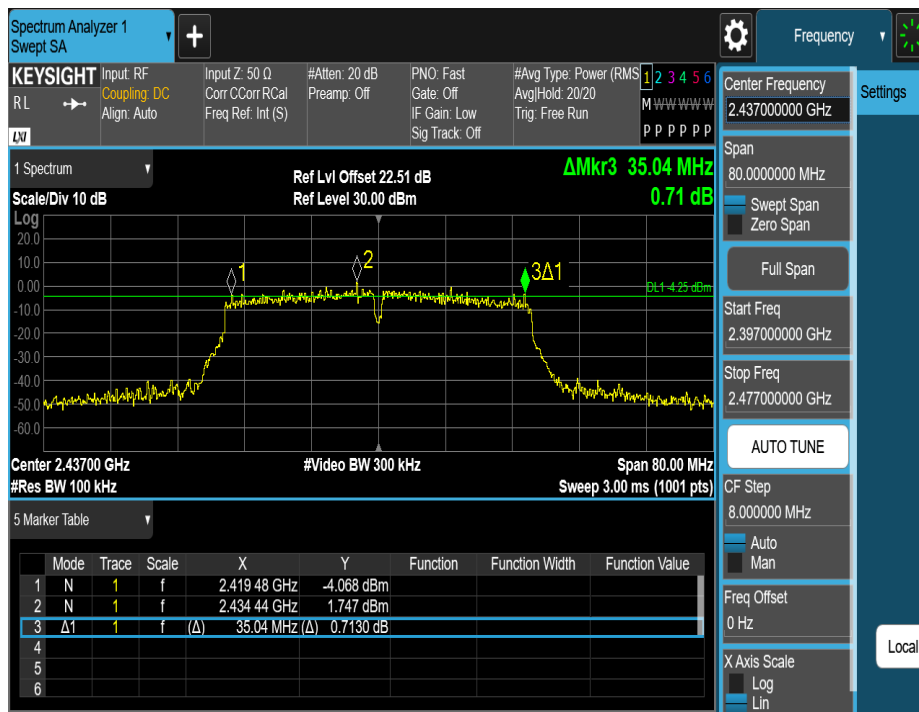
11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



Occupied Channel Bandwidth

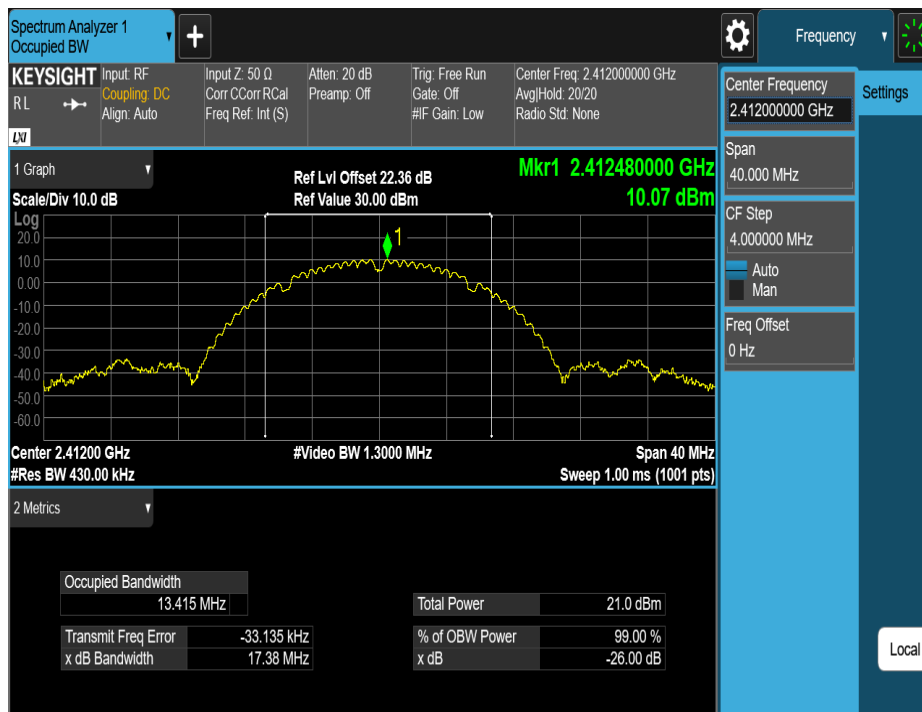
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.408	2405.2589	2418.6669	---	---
	Ant2	2412	13.415	2405.2594	2418.6744	---	---
	Ant1	2437	13.604	2430.1647	2443.7687	---	---
	Ant2	2437	13.433	2430.2156	2443.6486	---	---
	Ant1	2462	13.435	2455.2306	2468.6656	---	---
	Ant2	2462	13.403	2455.2573	2468.6603	---	---
11G-CDD	Ant1	2412	16.639	2403.6771	2420.3161	---	---
	Ant2	2412	16.478	2403.7257	2420.2037	---	---
	Ant1	2437	16.642	2428.6418	2445.2838	---	---
	Ant2	2437	16.539	2428.6694	2445.2084	---	---
	Ant1	2462	16.588	2453.6999	2470.2879	---	---
	Ant2	2462	16.511	2453.6957	2470.2067	---	---
11N20MIMO	Ant1	2412	17.669	2403.1000	2420.7690	---	---
	Ant2	2412	17.552	2403.1934	2420.7454	---	---
	Ant1	2437	17.664	2428.1557	2445.8197	---	---
	Ant2	2437	17.630	2428.1527	2445.7827	---	---
	Ant1	2462	17.679	2453.1485	2470.8275	---	---
	Ant2	2462	17.556	2453.1612	2470.7172	---	---
11N40MIMO	Ant1	2422	36.004	2403.9489	2439.9529	---	---
	Ant2	2422	35.994	2403.9304	2439.9244	---	---
	Ant1	2437	36.017	2418.9479	2454.9649	---	---
	Ant2	2437	36.130	2418.8844	2455.0144	---	---
	Ant1	2452	35.970	2433.9747	2469.9447	---	---
	Ant2	2452	36.043	2433.9133	2469.9563	---	---

Test Graphs

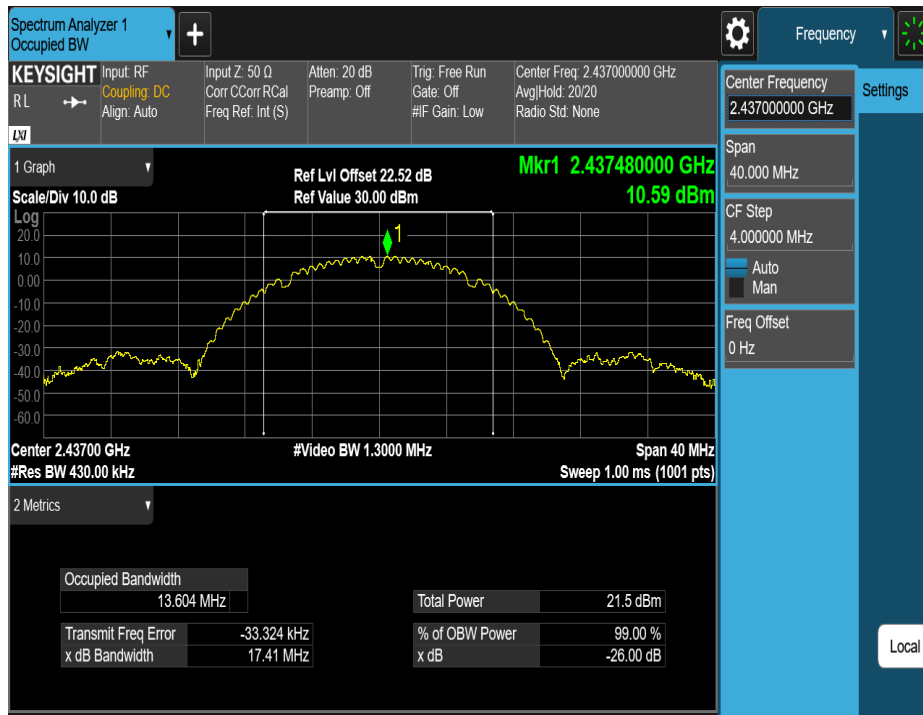
11B-CDD_Ant1_2412



11B-CDD_Ant2_2412



11B-CDD_Ant1_2437



11B-CDD_Ant2_2437

