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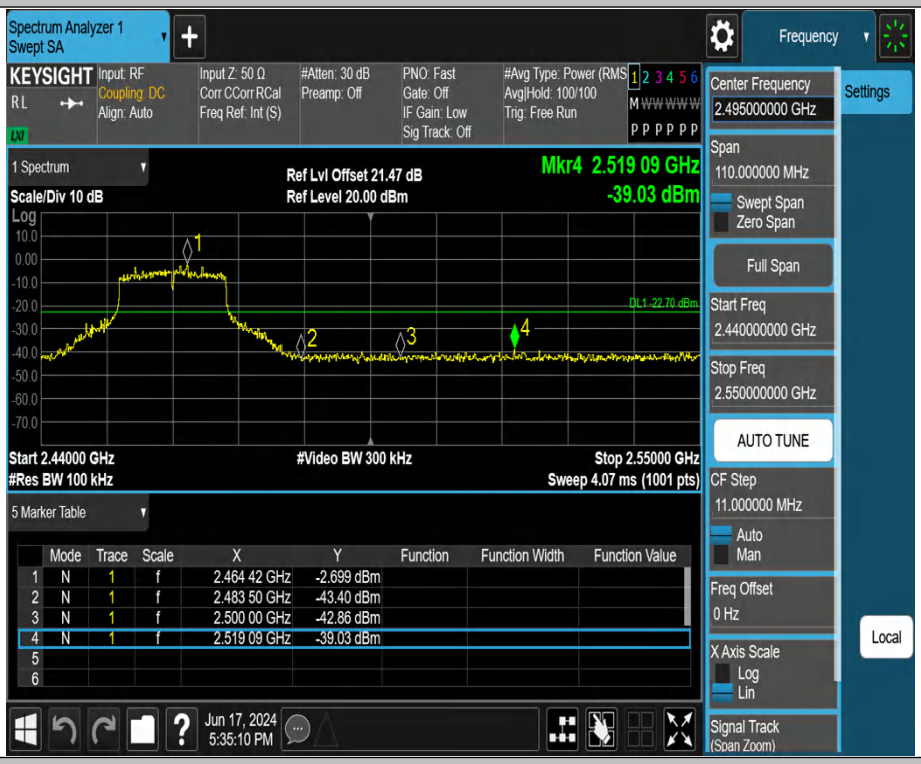

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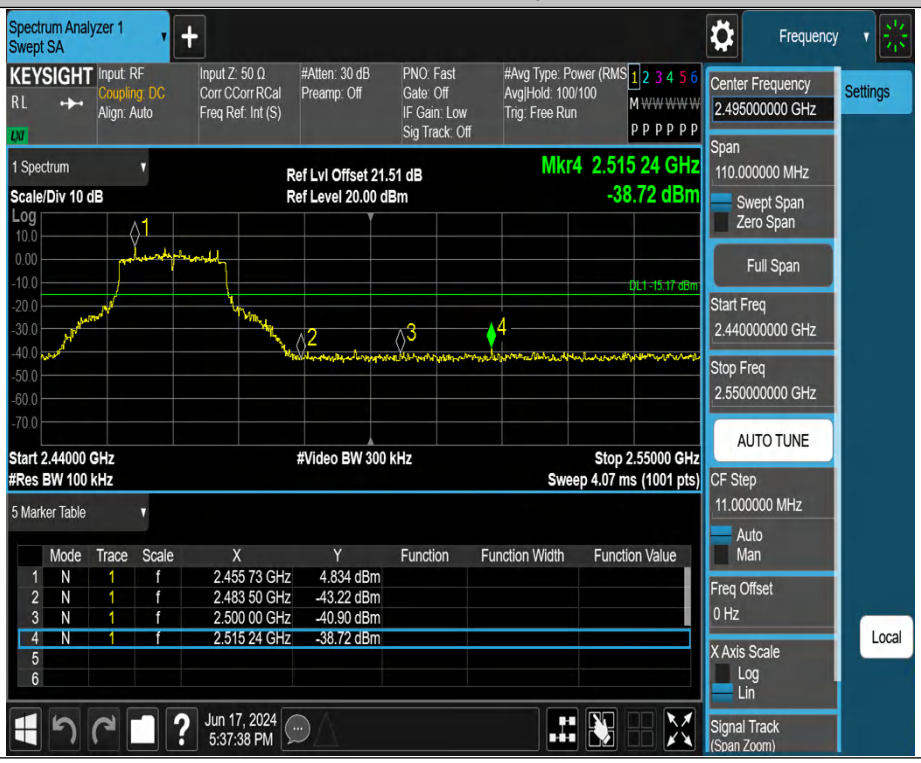

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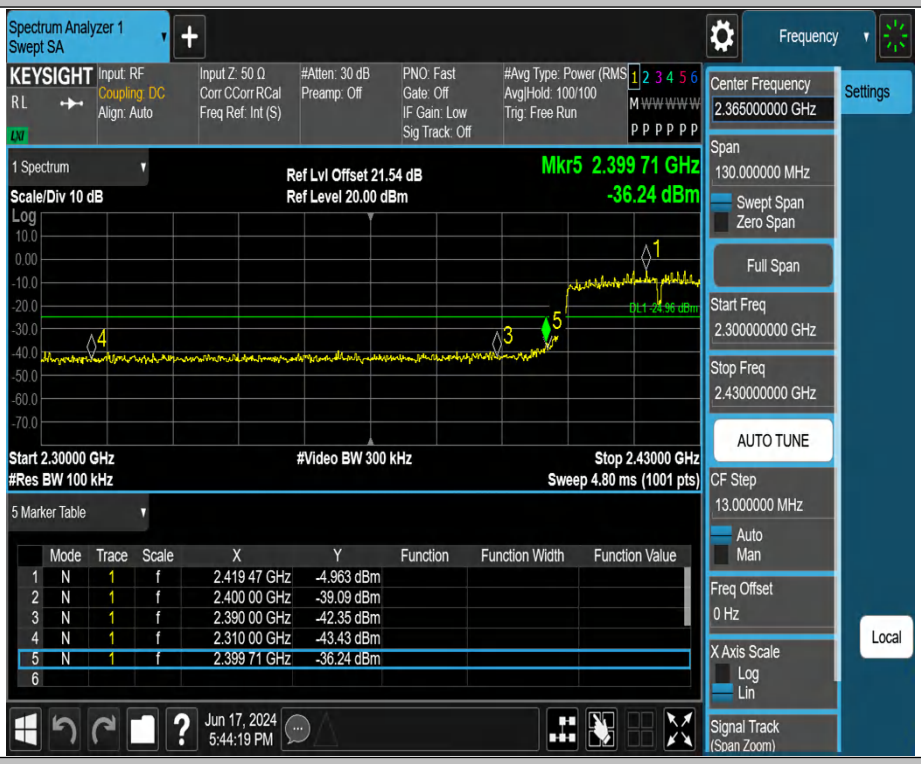

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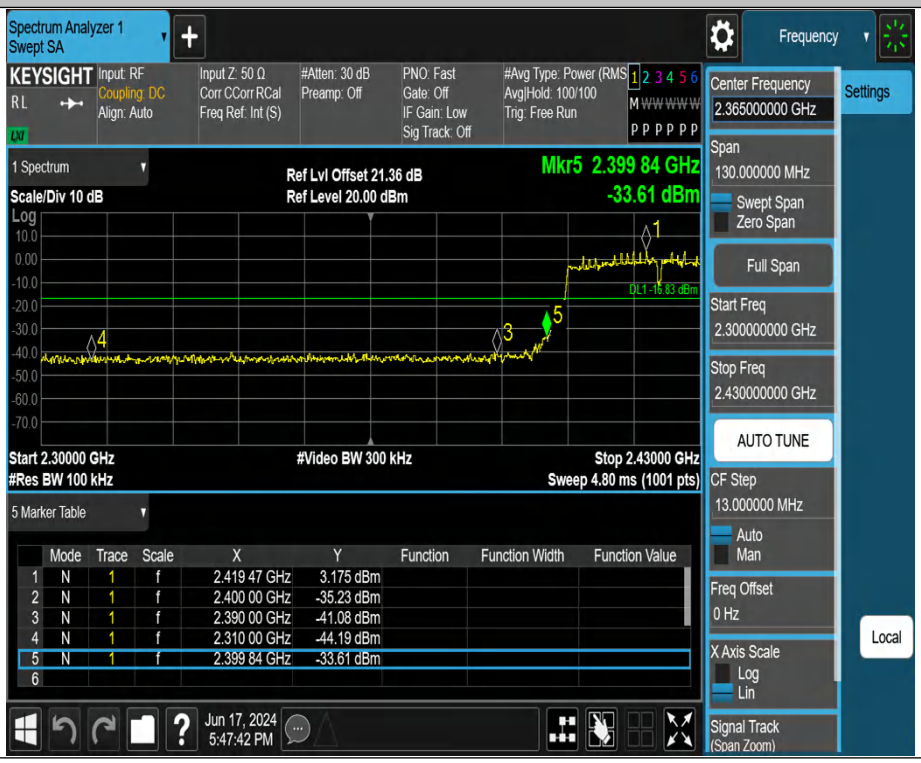

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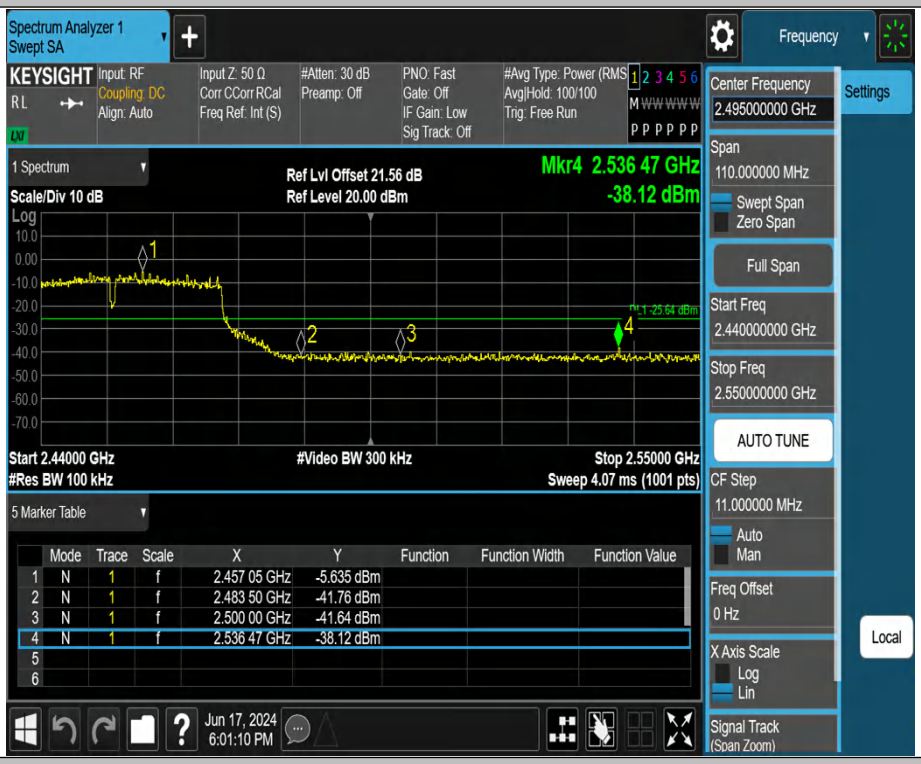

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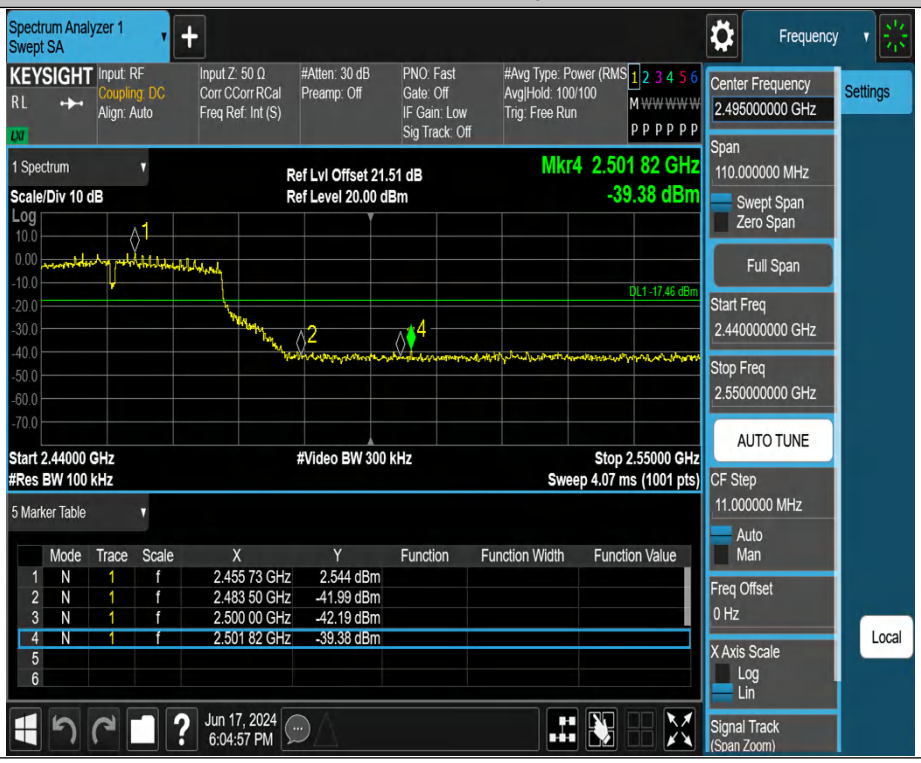

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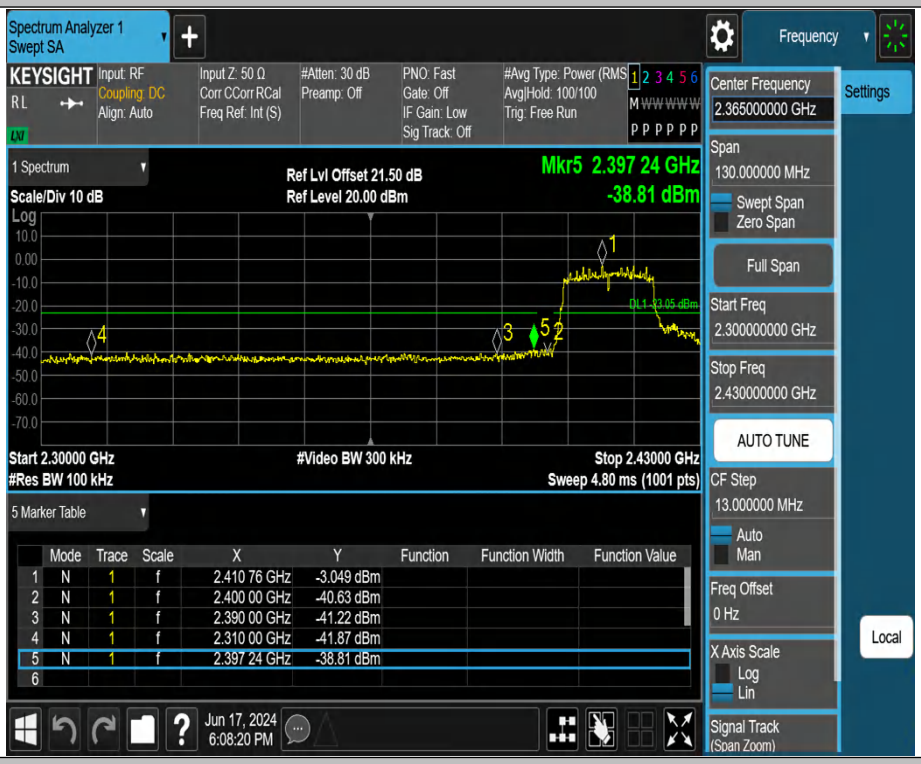

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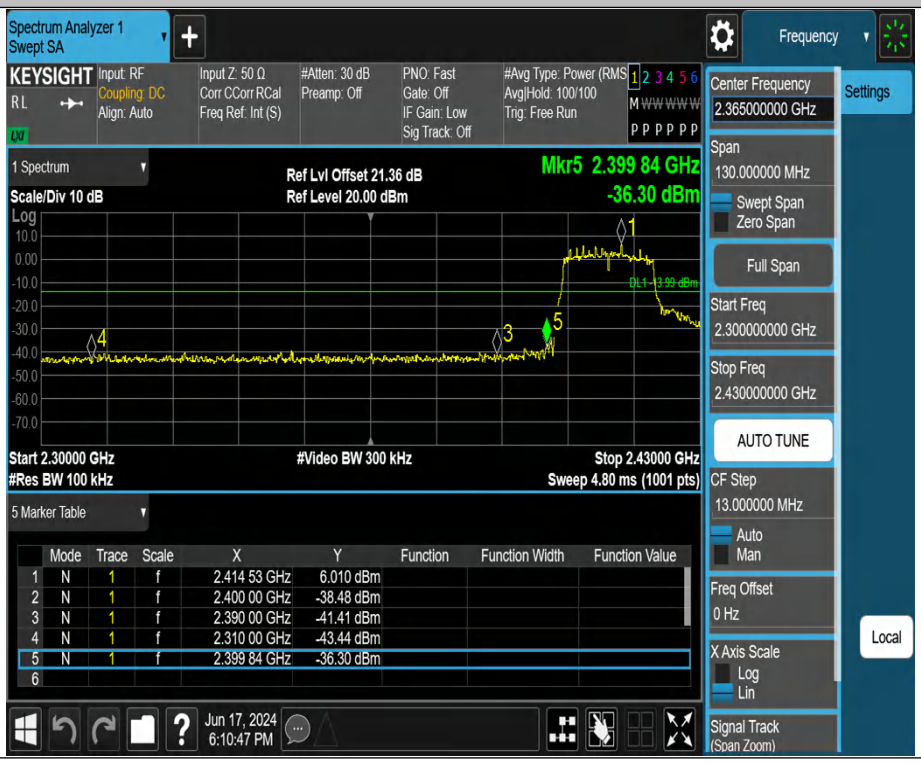

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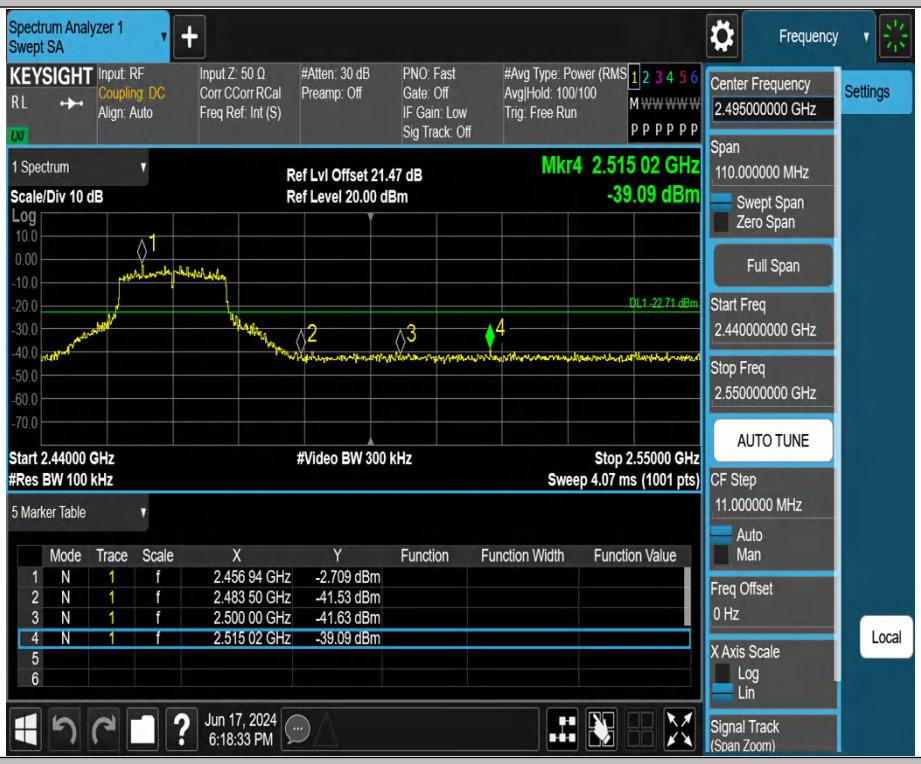

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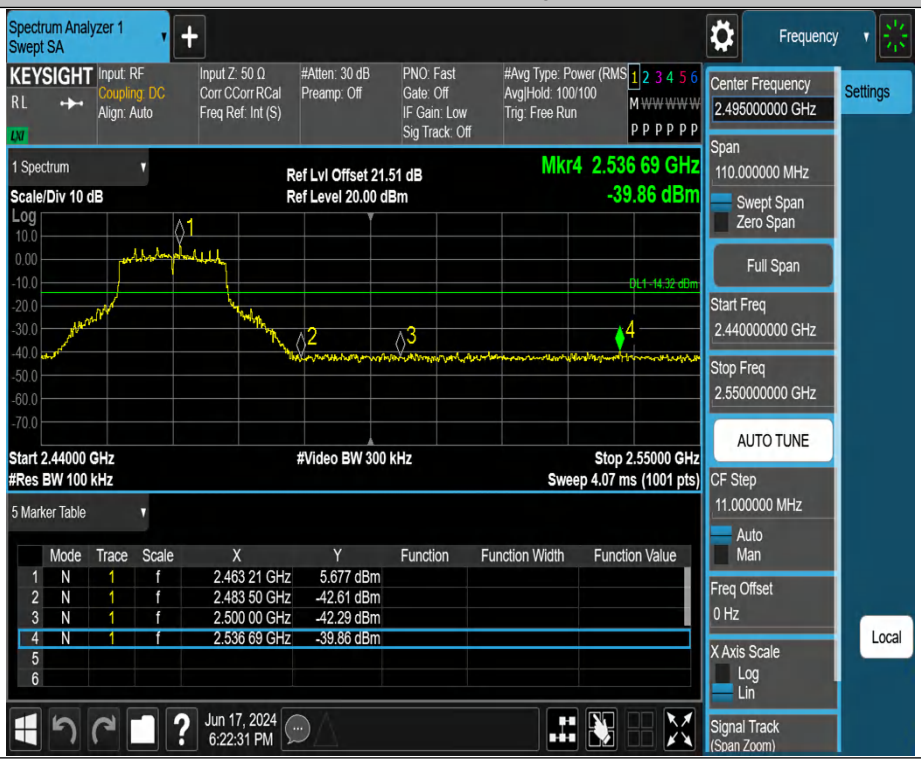

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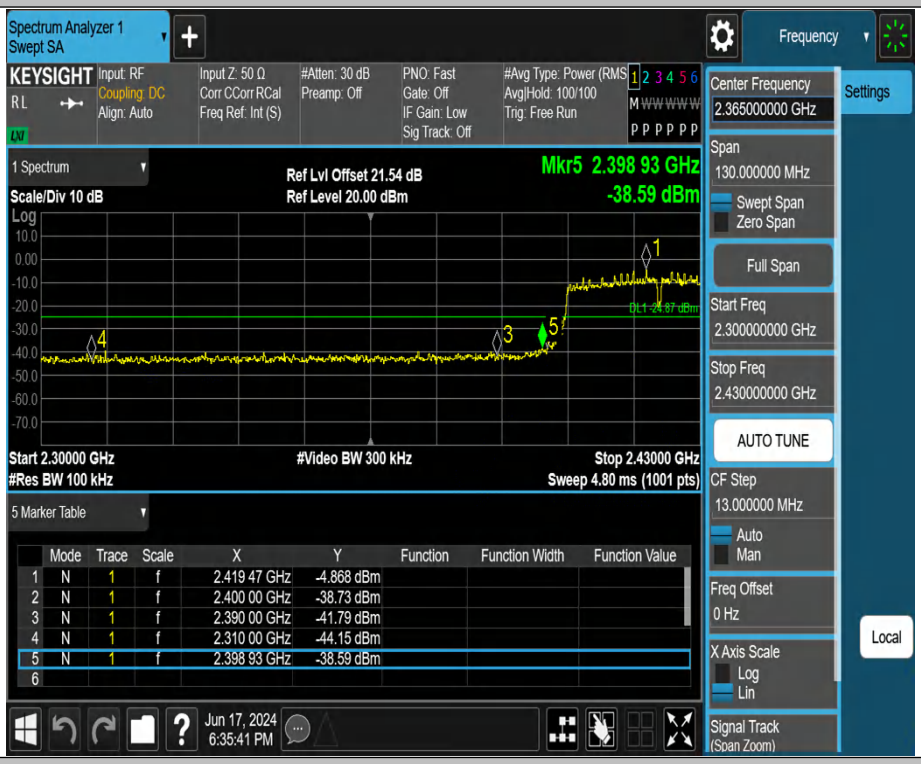

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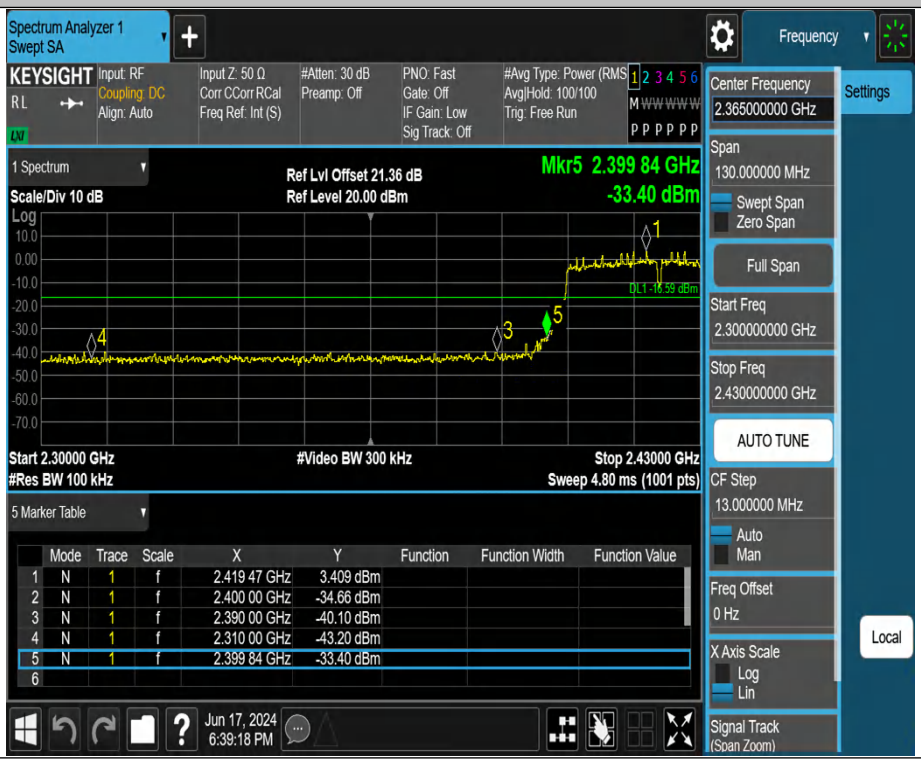

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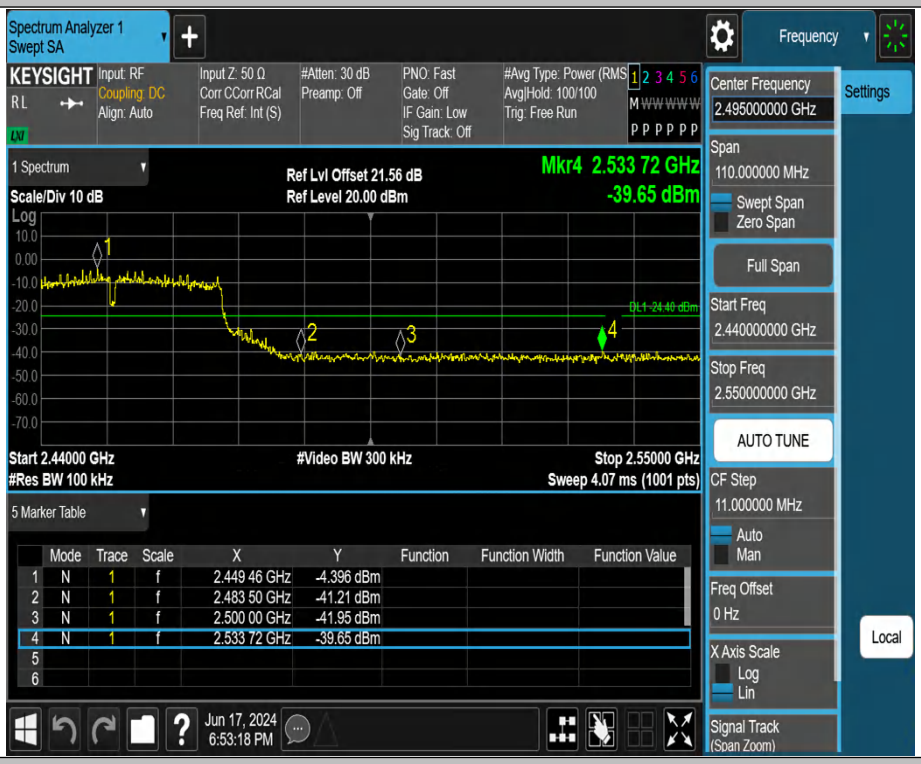

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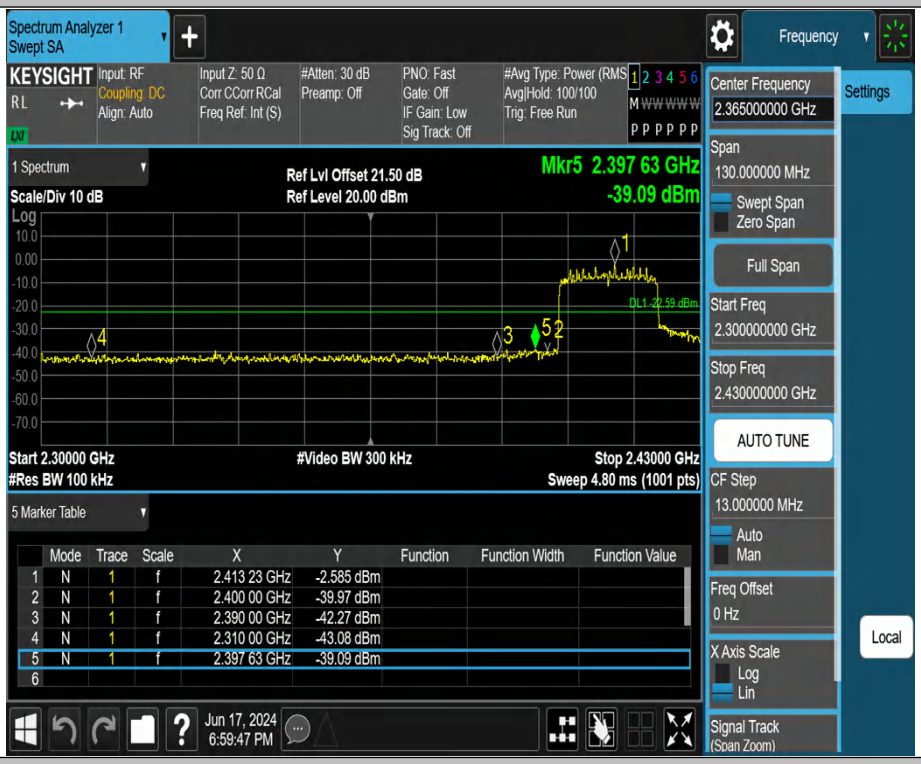

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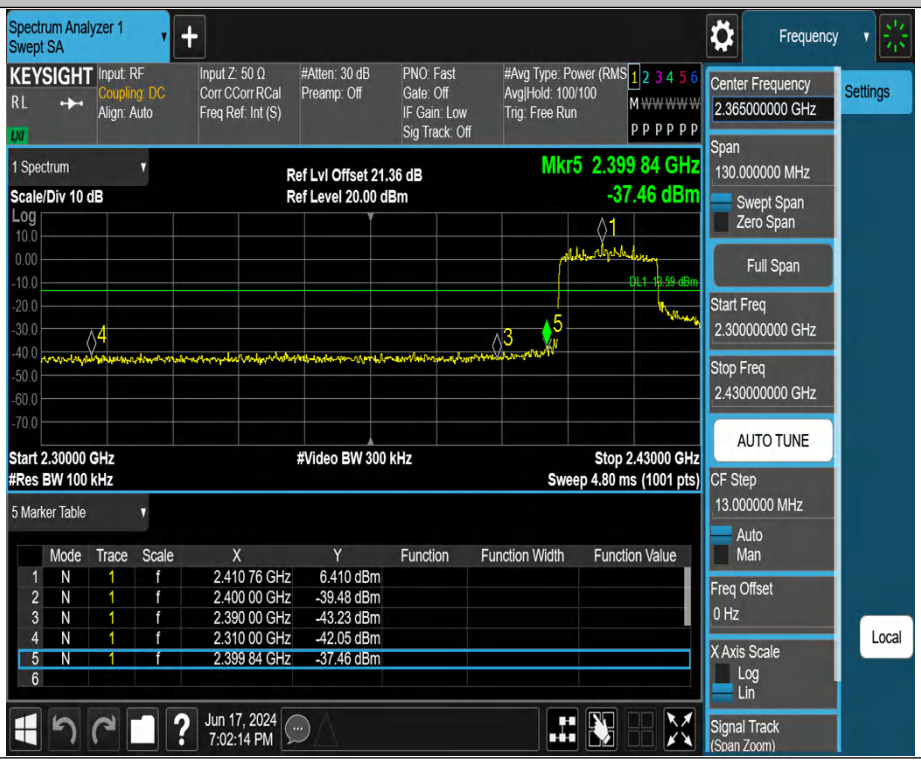

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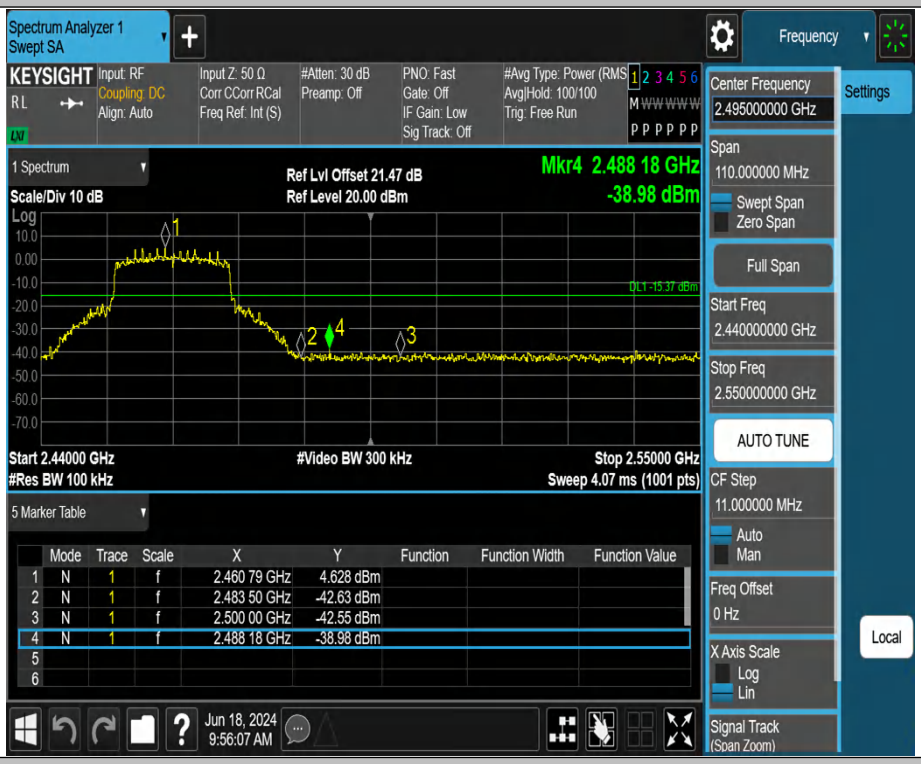

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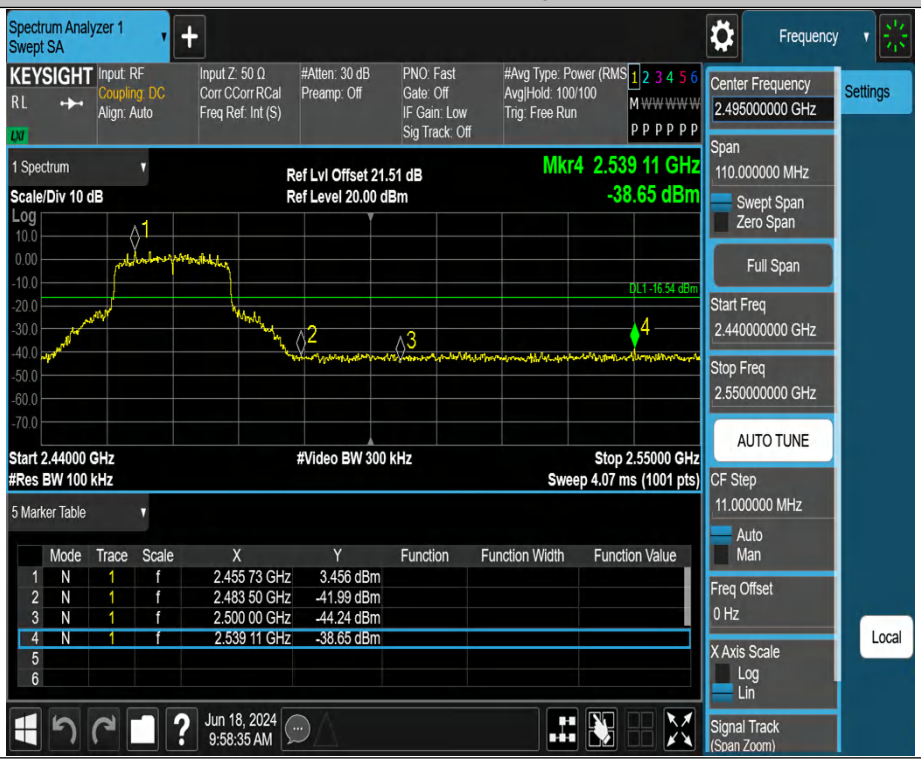

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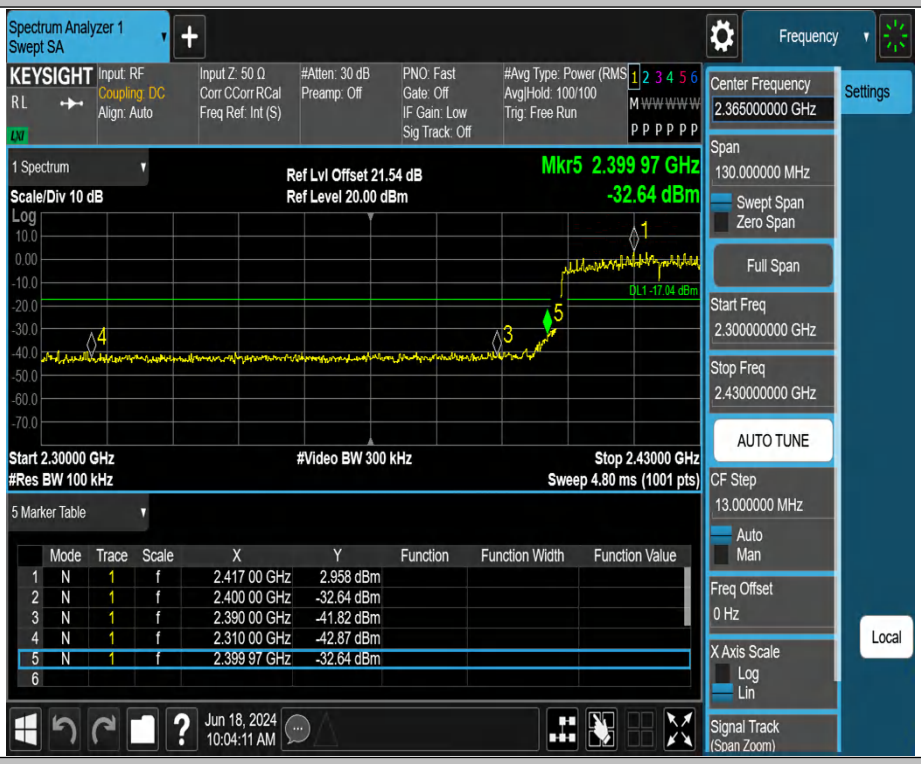

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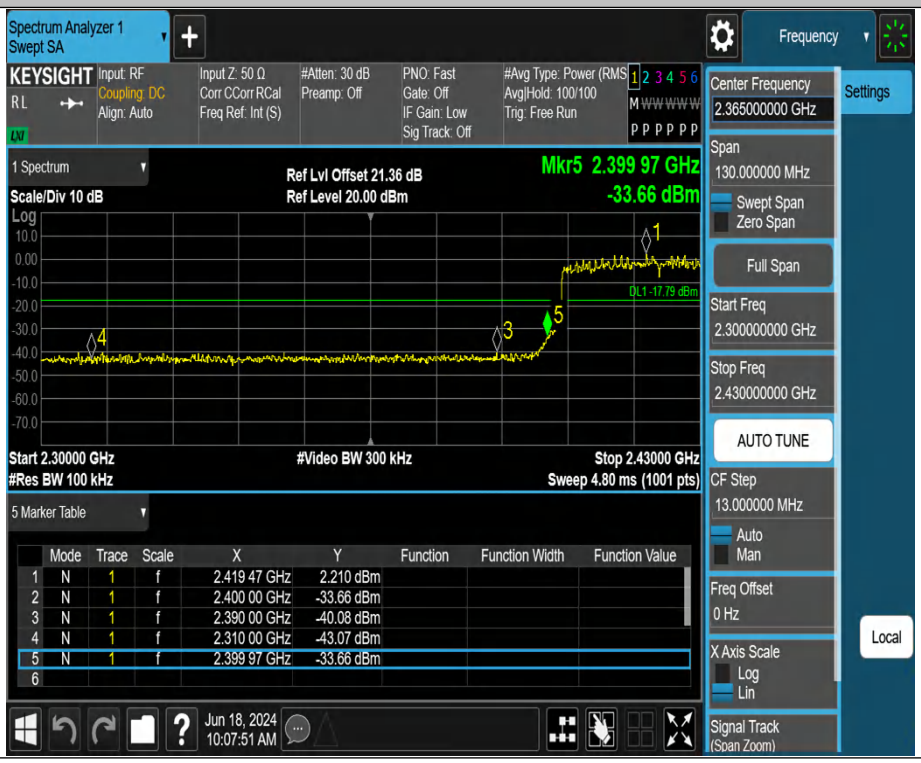

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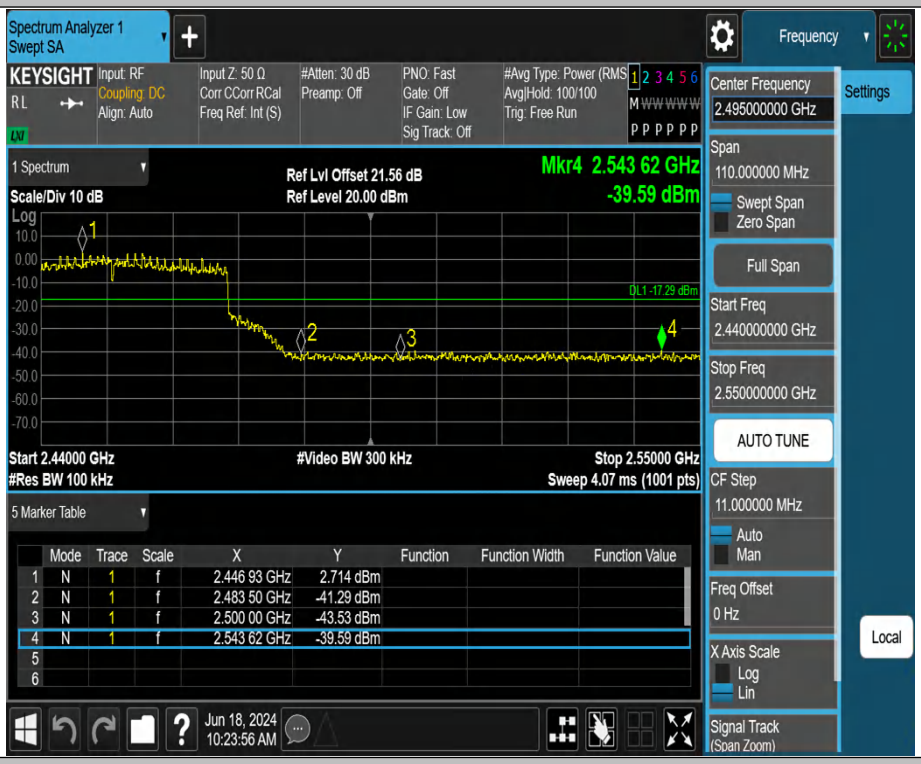

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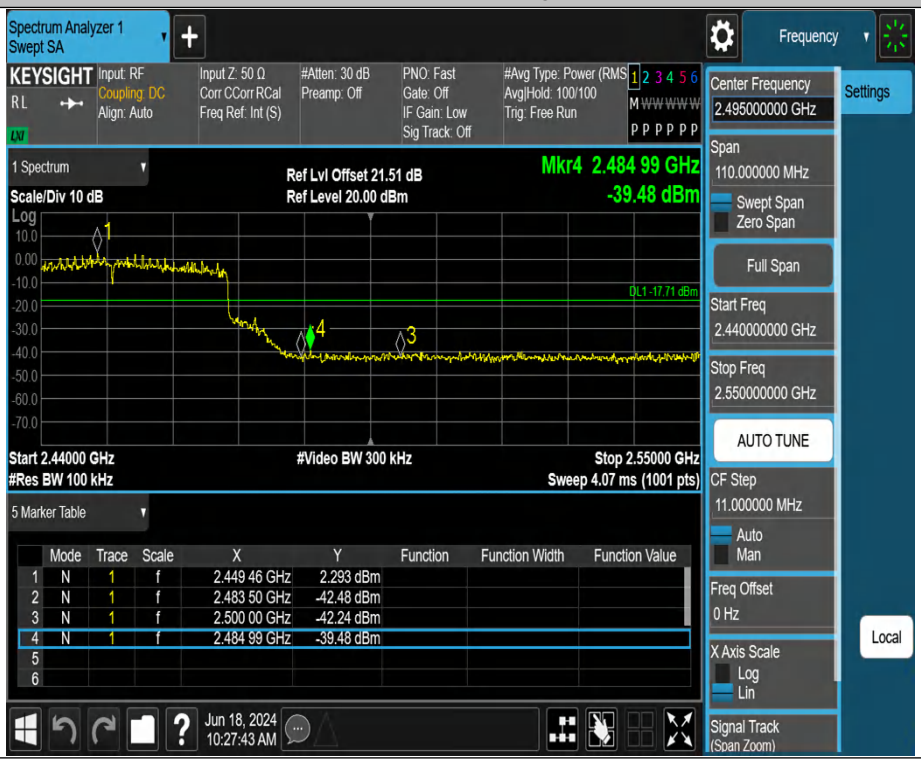


3.4 6dB Bandwidth

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:

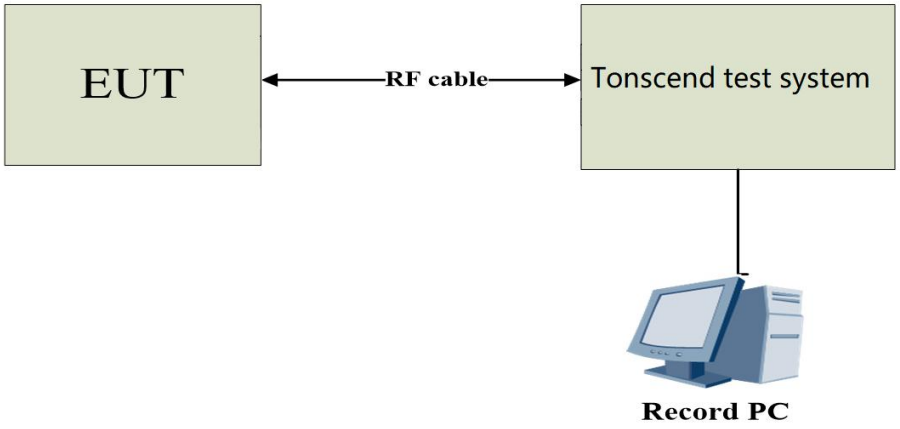
Centre Frequency	The centre frequency of the channel under test
RBW	100kHz
VBW	300kHz
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

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

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.080	2408.440	2415.520	0.5	PASS
	Ant2	2412	8.520	2408.000	2416.520	0.5	PASS
	Ant1	2437	9.000	2432.480	2441.480	0.5	PASS
	Ant2	2437	8.520	2432.960	2441.480	0.5	PASS
	Ant1	2462	8.560	2457.440	2466.000	0.5	PASS
	Ant2	2462	8.080	2457.960	2466.040	0.5	PASS
11G	Ant1	2412	15.640	2404.480	2420.120	0.5	PASS
	Ant2	2412	16.280	2403.840	2420.120	0.5	PASS
	Ant1	2437	15.720	2428.840	2444.560	0.5	PASS
	Ant2	2437	16.280	2428.840	2445.120	0.5	PASS
	Ant1	2462	16.280	2453.840	2470.120	0.5	PASS
	Ant2	2462	16.040	2453.840	2469.880	0.5	PASS
	Ant2	2462	15.240	2454.240	2469.480	0.5	PASS
11N20MIMO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
	Ant2	2412	16.480	2403.240	2419.720	0.5	PASS
	Ant1	2437	16.920	2428.840	2445.760	0.5	PASS
	Ant2	2437	16.360	2428.200	2444.560	0.5	PASS
	Ant1	2462	17.560	2453.200	2470.760	0.5	PASS
	Ant2	2462	17.560	2453.200	2470.760	0.5	PASS
11N40MIMO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant2	2422	33.920	2404.400	2438.320	0.5	PASS
	Ant1	2437	35.120	2419.400	2454.520	0.5	PASS
	Ant2	2437	34.160	2420.360	2454.520	0.5	PASS
	Ant1	2452	33.760	2435.680	2469.440	0.5	PASS
	Ant2	2452	35.360	2434.160	2469.520	0.5	PASS
11AX20MIMO	Ant1	2412	18.240	2403.000	2421.240	0.5	PASS
	Ant2	2412	17.400	2402.840	2420.240	0.5	PASS
	Ant1	2437	16.080	2428.760	2444.840	0.5	PASS
	Ant2	2437	17.320	2428.160	2445.480	0.5	PASS
	Ant1	2462	16.560	2454.200	2470.760	0.5	PASS
	Ant2	2462	17.840	2452.960	2470.800	0.5	PASS
11AX40MIMO	Ant1	2422	35.520	2404.240	2439.760	0.5	PASS
	Ant2	2422	35.040	2403.200	2438.240	0.5	PASS
	Ant1	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant2	2437	36.320	2418.200	2454.520	0.5	PASS
	Ant1	2452	36.320	2434.400	2470.720	0.5	PASS
	Ant2	2452	36.320	2433.200	2469.520	0.5	PASS

11B_Ant1_2412

11B_Ant2_2412

11B_Ant1_2437

11B_Ant2_2437