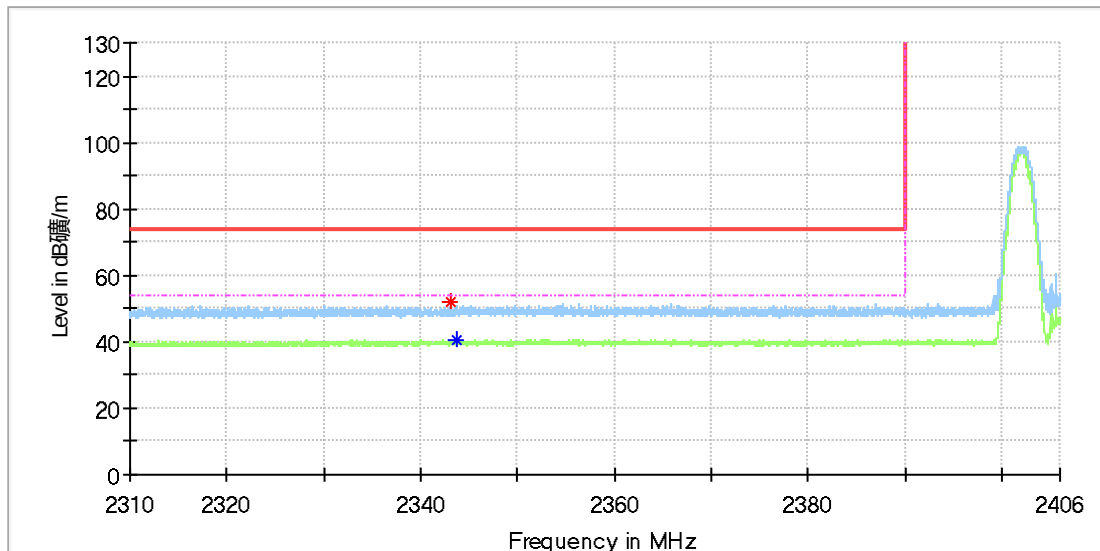


Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Digital Cockpit Head Unit
Model:	DHU2.5_A
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168516757/A003881754-002
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

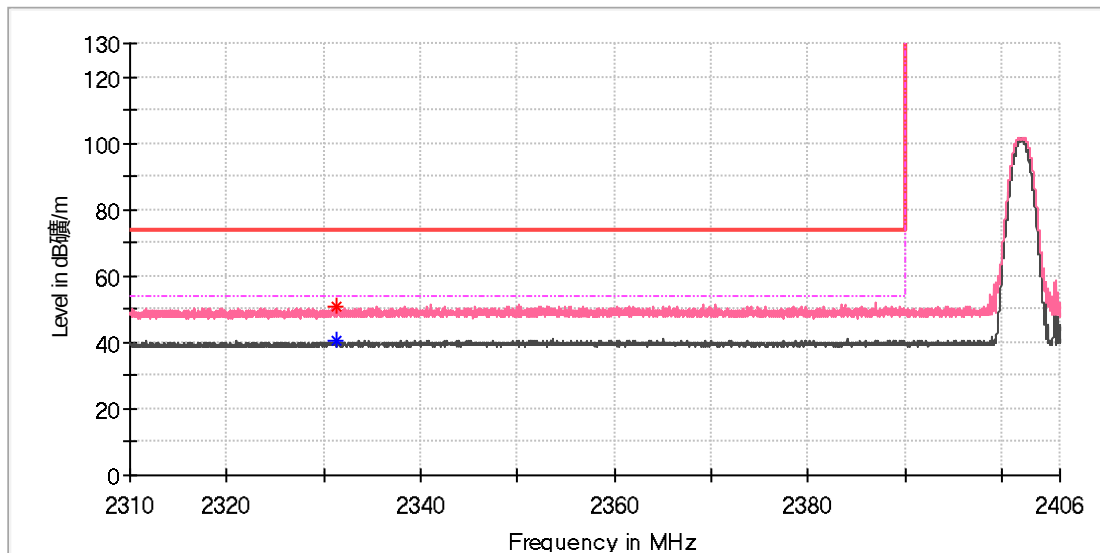
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2343.162353	52.18	---	74.00	21.82	150.0	H	270.0	8.4
2343.698824	---	40.24	54.00	13.76	150.0	H	222.0	8.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Digital Cockpit Head Unit
Model:	DHU2.5_A
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168516757/A003881754-002
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

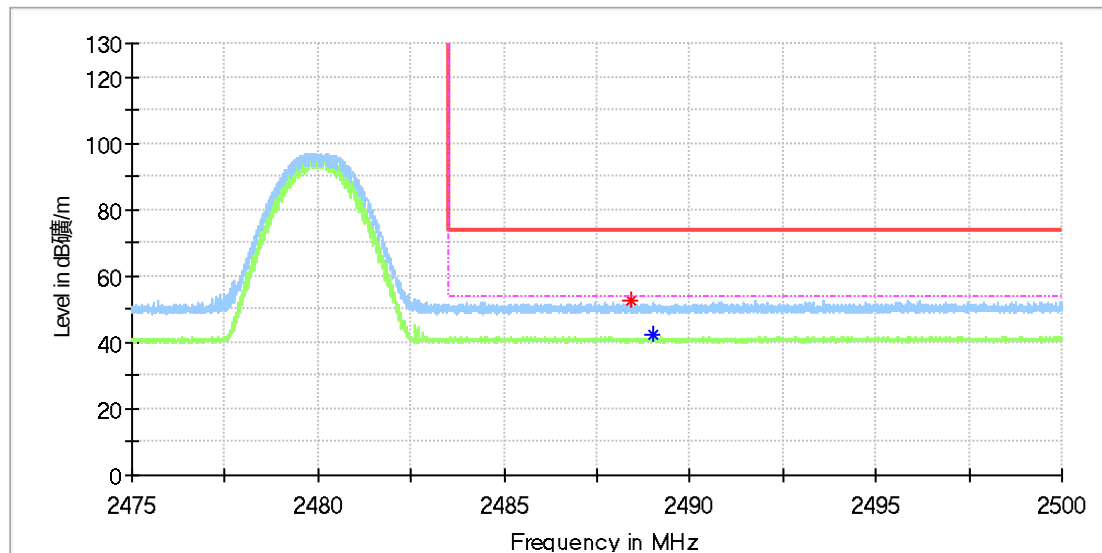
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2331.261177	50.56	---	74.00	23.44	150.0	V	25.0	8.3
2331.388235	---	40.59	54.00	13.41	150.0	V	205.0	8.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Digital Cockpit Head Unit
Model:	DHU2.5_A
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168516757/A003881754-002
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

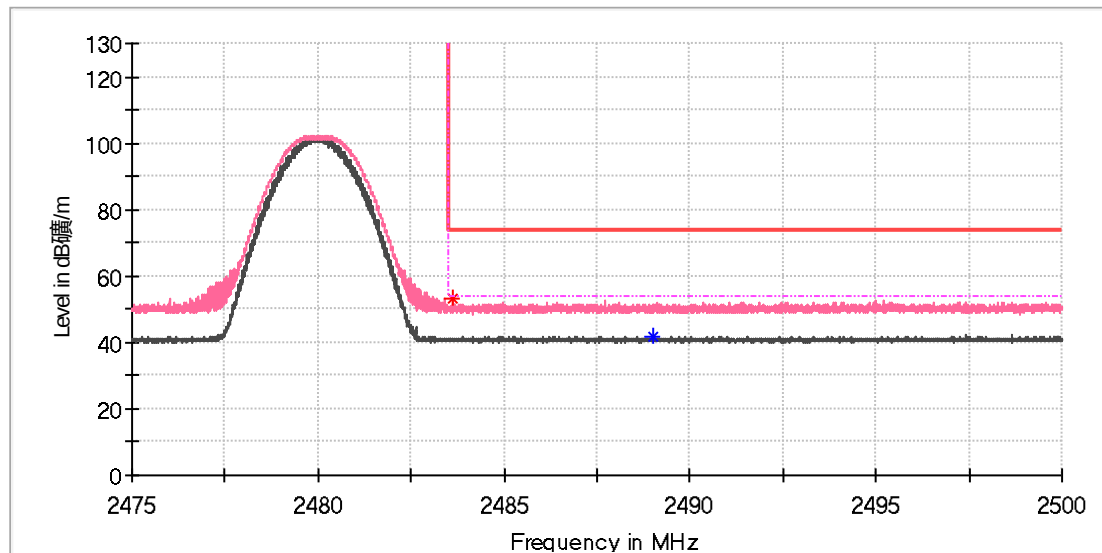
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2488.430147	52.37	---	74.00	21.63	150.0	H	197.0	9.0
2489.000000	---	42.29	54.00	11.71	150.0	H	335.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Digital Cockpit Head Unit
Model:	DHU2.5_A
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168516757/A003881754-002
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.639706	52.98	---	74.00	21.02	150.0	V	112.0	9.0
2488.996324	---	41.98	54.00	12.02	150.0	V	139.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix C: Test Results of 2.4GHz Wi-Fi

APPENDIX C: TEST RESULTS OF 2.4GHZ WI-FI	1
APPENDIX C.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
<i>Test Result.....</i>	<i>2</i>
<i>Test Graphs.....</i>	<i>3</i>
APPENDIX C.2: TEST RESULTS OF 6DB BANDWIDTH.....	15
<i>Test Result.....</i>	<i>15</i>
<i>Test Graphs.....</i>	<i>16</i>
APPENDIX C.3: TEST RESULTS OF 99% BANDWIDTH	28
<i>Test Result.....</i>	<i>28</i>
<i>Test Graphs.....</i>	<i>29</i>
APPENDIX C.4: TEST RESULTS OF BAND EDGE MEASUREMENTS.....	41
<i>Test Result.....</i>	<i>41</i>
<i>Test Graphs.....</i>	<i>42</i>
APPENDIX C.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS	46
<i>Test Result.....</i>	<i>46</i>
<i>Test Graphs.....</i>	<i>47</i>
APPENDIX C.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS.....	65
30MHz - 1GHz	65
1GHz - 18GHz.....	67
APPENDIX C.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	75

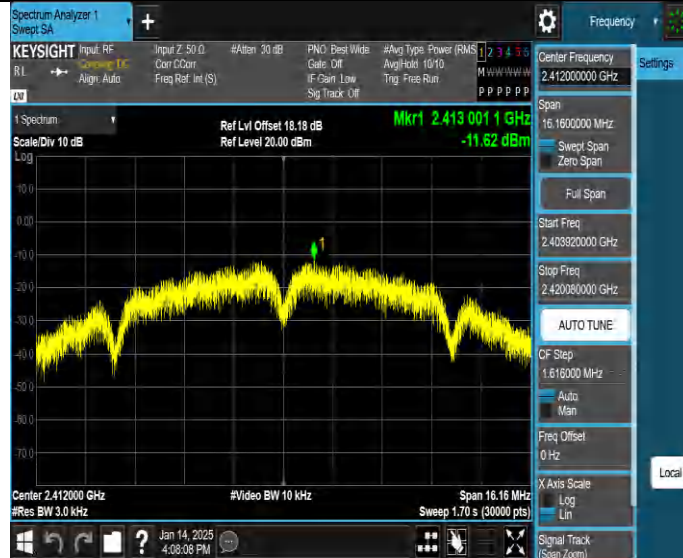
Appendix C.1: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-11.62	≤8.00	PASS
	Ant2	2412	-11.04	≤8.00	PASS
	total	2412	-8.31	≤8.00	PASS
	Ant1	2437	-11.26	≤8.00	PASS
	Ant2	2437	-11.17	≤8.00	PASS
	total	2437	-8.20	≤8.00	PASS
	Ant1	2462	-8.85	≤8.00	PASS
	Ant2	2462	-9.15	≤8.00	PASS
	total	2462	-5.99	≤8.00	PASS
11G-CDD	Ant1	2412	-13.37	≤8.00	PASS
	Ant2	2412	-12.99	≤8.00	PASS
	total	2412	-10.17	≤8.00	PASS
	Ant1	2437	-14.39	≤8.00	PASS
	Ant2	2437	-13.72	≤8.00	PASS
	total	2437	-11.03	≤8.00	PASS
	Ant1	2462	-13.61	≤8.00	PASS
	Ant2	2462	-13.87	≤8.00	PASS
	total	2462	-10.73	≤8.00	PASS
11N20MIMO	Ant1	2412	-13.58	≤8.00	PASS
	Ant2	2412	-12.51	≤8.00	PASS
	total	2412	-10.00	≤8.00	PASS
	Ant1	2437	-14.15	≤8.00	PASS
	Ant2	2437	-11.95	≤8.00	PASS
	total	2437	-9.90	≤8.00	PASS
	Ant1	2462	-12.32	≤8.00	PASS
	Ant2	2462	-12.45	≤8.00	PASS
	total	2462	-9.37	≤8.00	PASS
11N40MIMO	Ant1	2422	-15.24	≤8.00	PASS
	Ant2	2422	-15.24	≤8.00	PASS
	total	2422	-12.23	≤8.00	PASS
	Ant1	2437	-16.50	≤8.00	PASS
	Ant2	2437	-15.56	≤8.00	PASS
	total	2437	-12.99	≤8.00	PASS
	Ant1	2452	-14.99	≤8.00	PASS
	Ant2	2452	-15.62	≤8.00	PASS
	total	2452	-12.28	≤8.00	PASS
11AX20MIMO	Ant1	2412	-14.17	≤8.00	PASS
	Ant2	2412	-13.82	≤8.00	PASS
	total	2412	-10.98	≤8.00	PASS
	Ant1	2437	-14.12	≤8.00	PASS
	Ant2	2437	-14.59	≤8.00	PASS
	total	2437	-11.34	≤8.00	PASS
	Ant1	2462	-13.49	≤8.00	PASS
	Ant2	2462	-14.03	≤8.00	PASS
	total	2462	-10.74	≤8.00	PASS
11AX40MIMO	Ant1	2422	-15.32	≤8.00	PASS
	Ant2	2422	-16.06	≤8.00	PASS
	total	2422	-12.66	≤8.00	PASS
	Ant1	2437	-16.38	≤8.00	PASS
	Ant2	2437	-16.40	≤8.00	PASS
	total	2437	-13.38	≤8.00	PASS
	Ant1	2452	-15.42	≤8.00	PASS
	Ant2	2452	-16.80	≤8.00	PASS
	total	2452	-13.05	≤8.00	PASS

Test Graphs

11B-CDD Ant1 2412

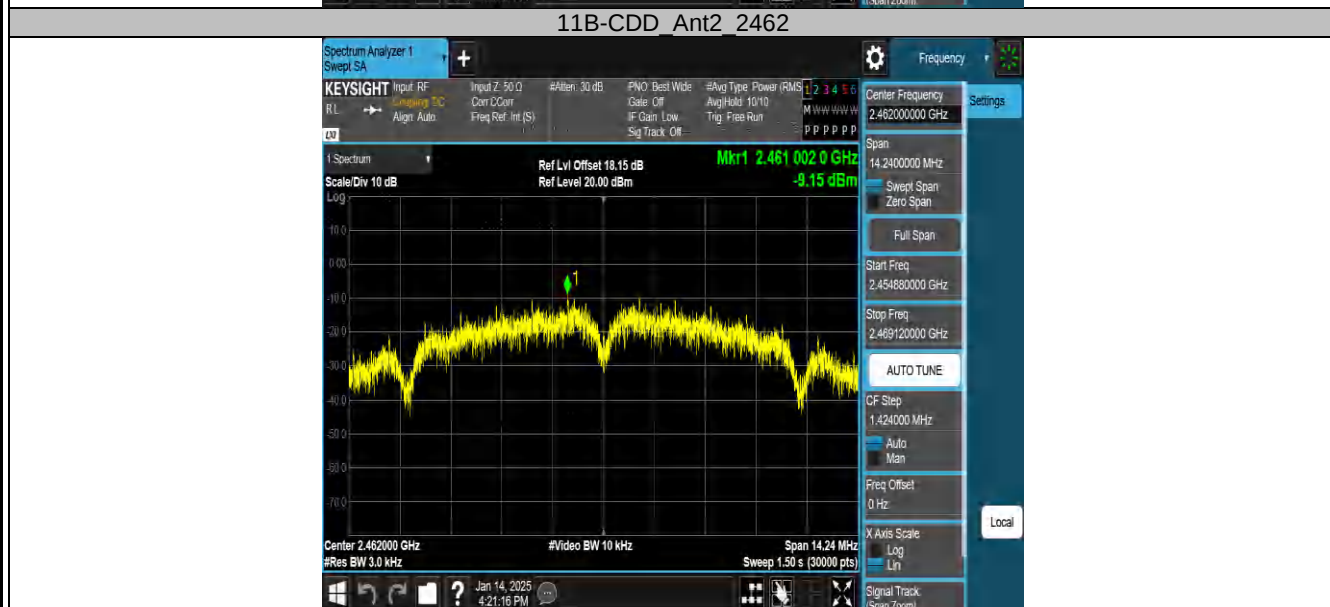


11B-CDD Ant2 2412

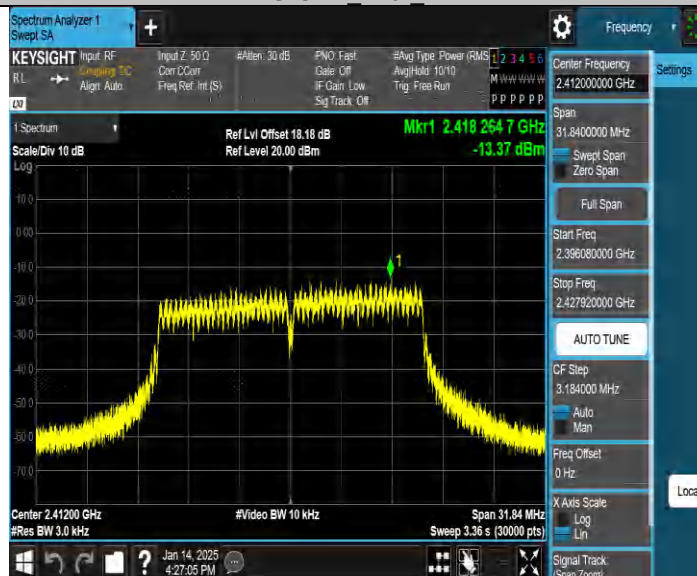


11B-CDD Ant1 2437

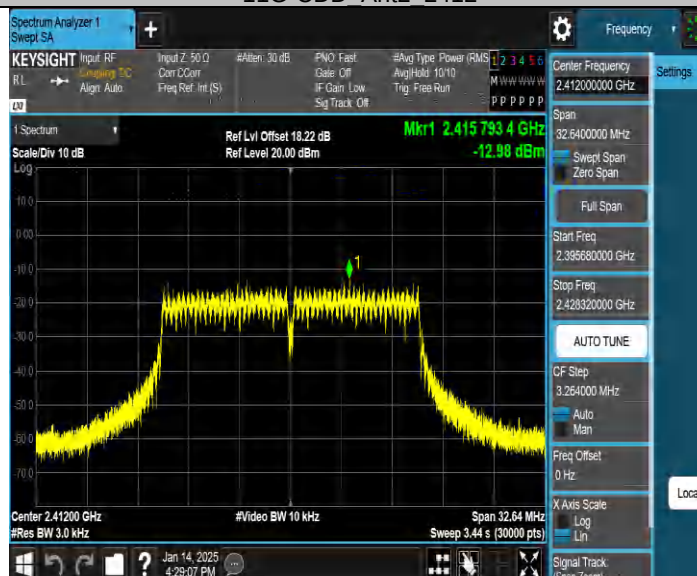




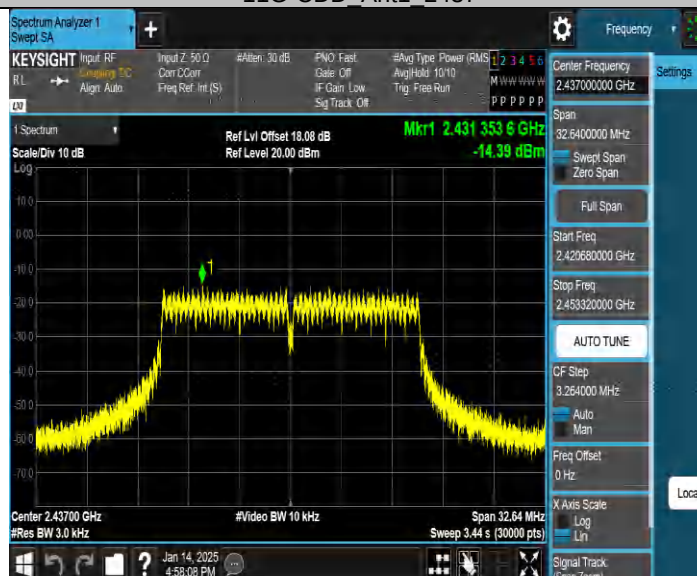
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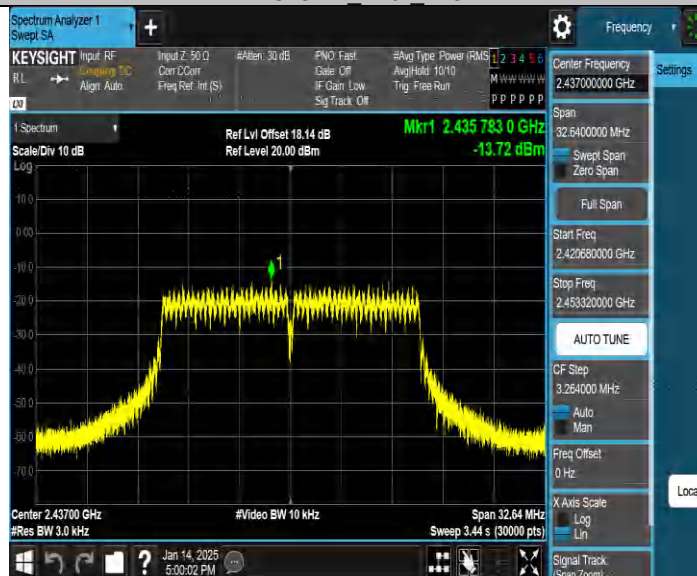
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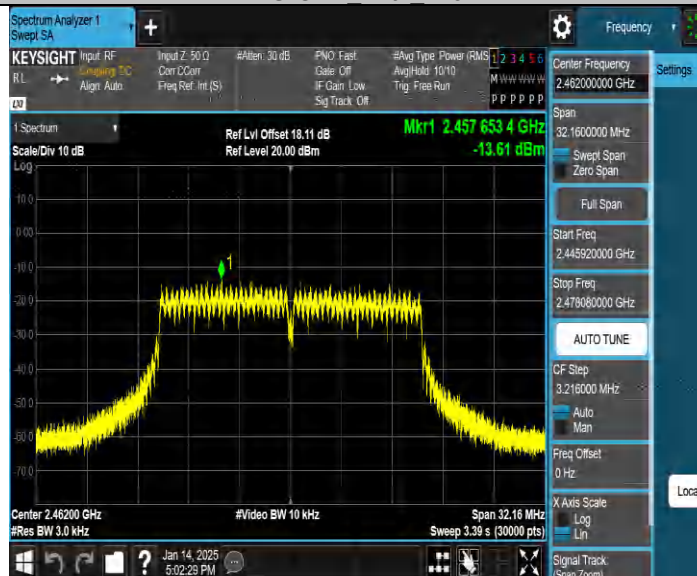
11G-CDD Ant1 2437



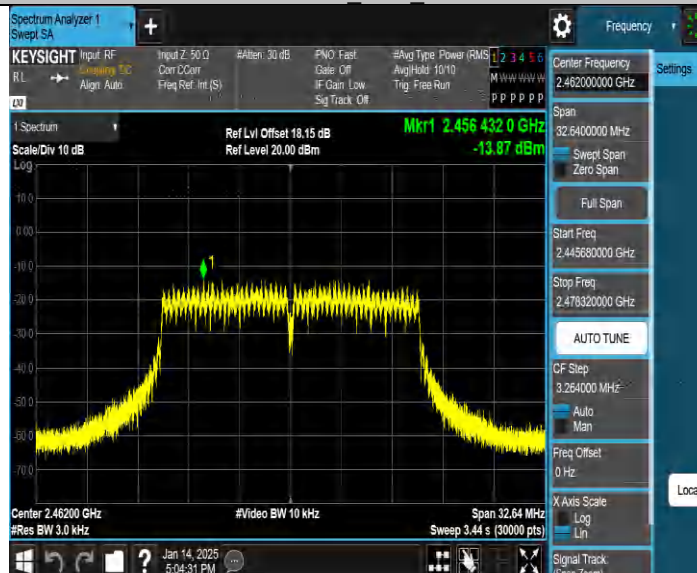
11G-CDD Ant2 2437



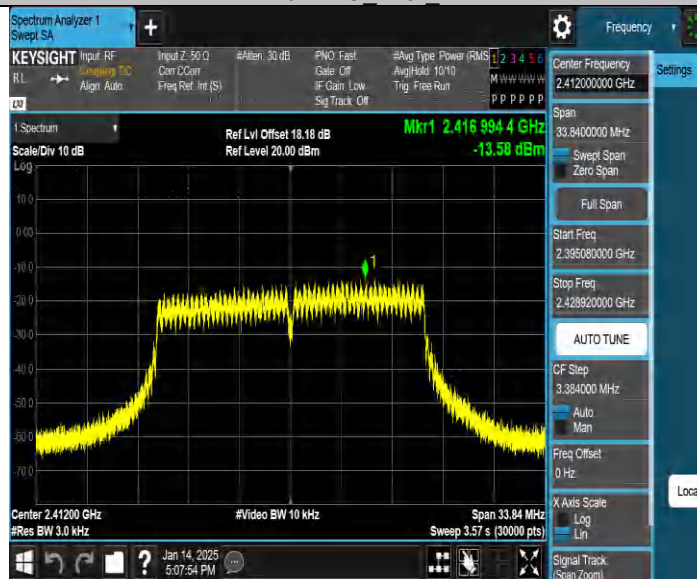
11G-CDD Ant1 2462



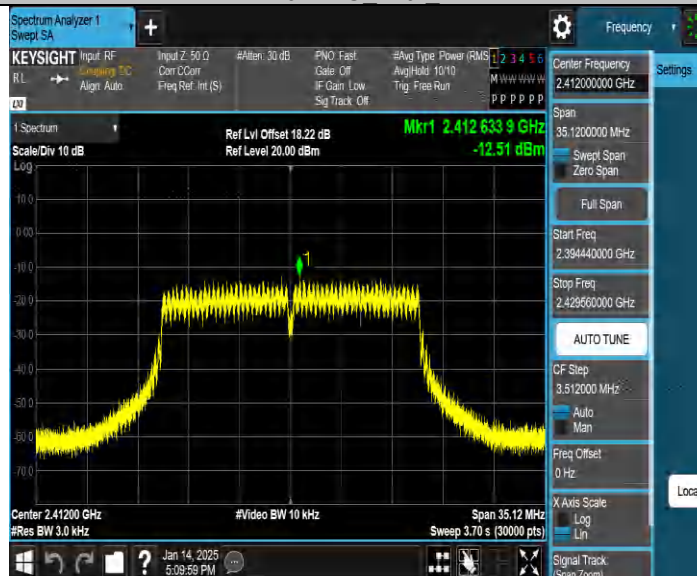
11G-CDD Ant2 2462



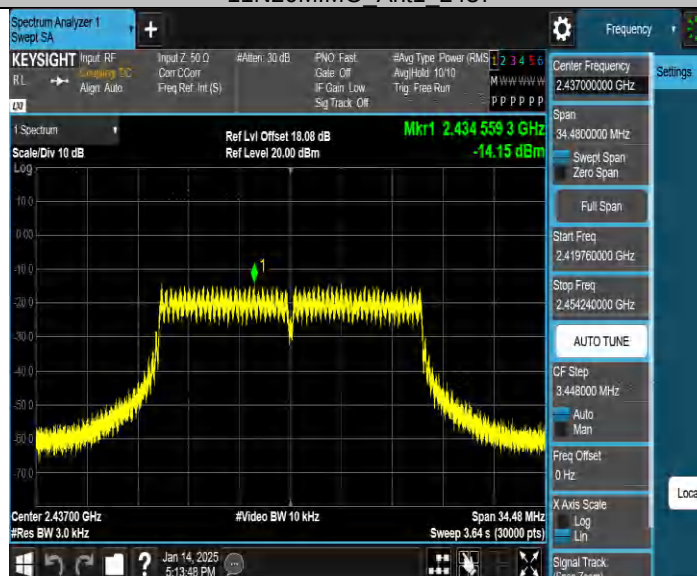
11N20MIMO Ant1 2412



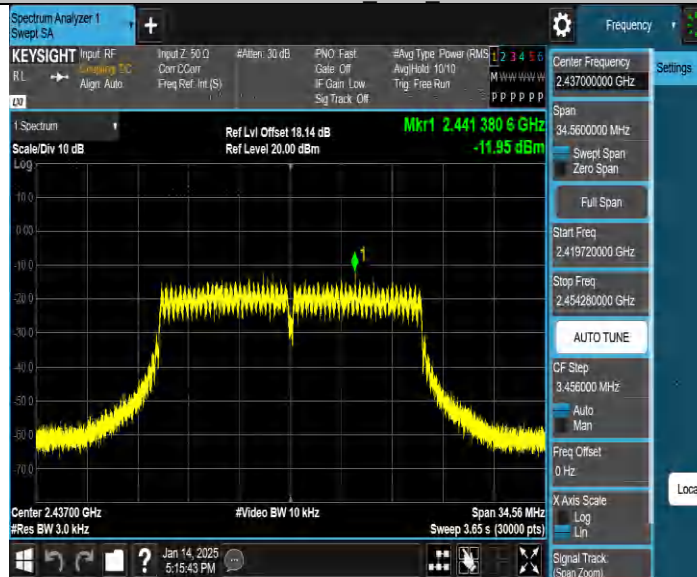
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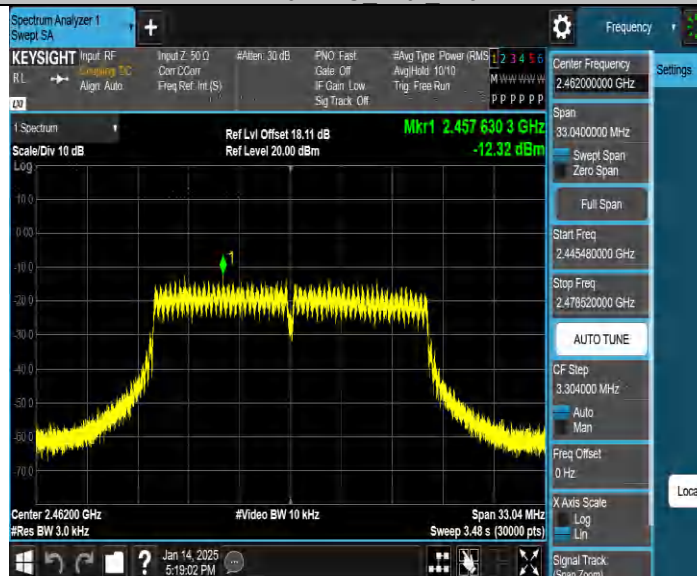
11N20MIMO Ant1 2437



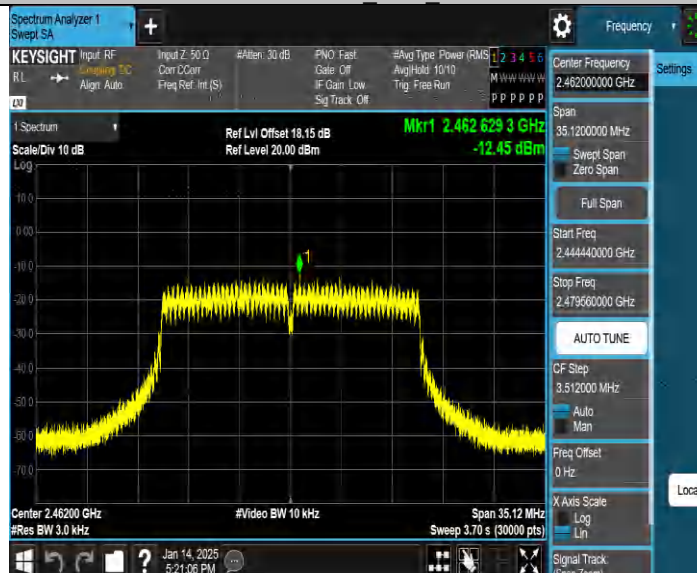
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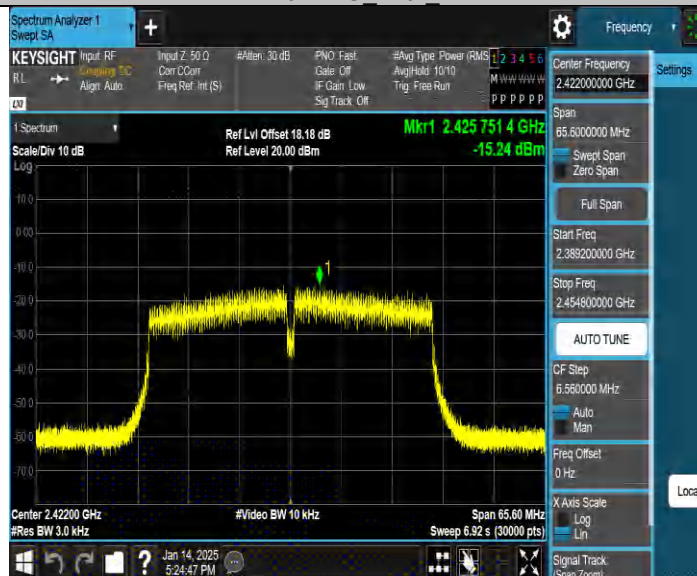
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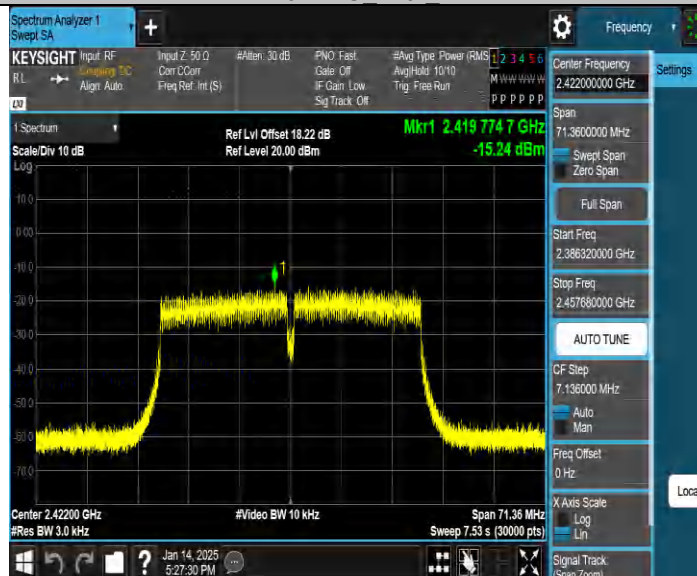
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11N40MIMO Ant1 2422



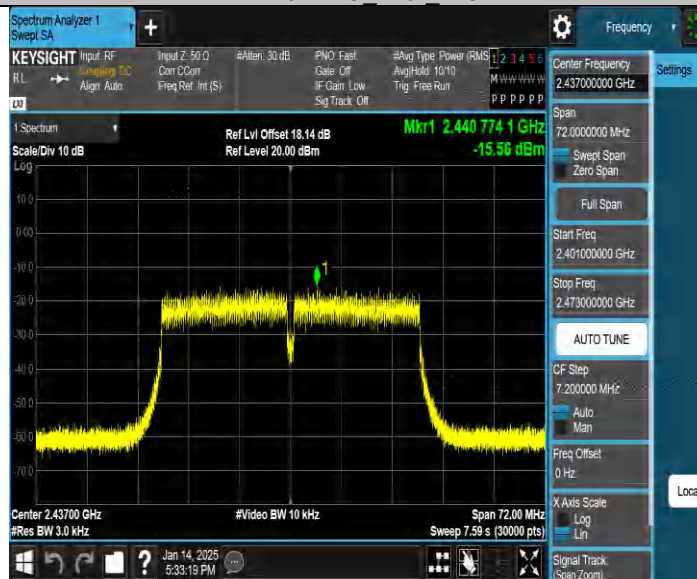
11N40MIMO Ant2 2422



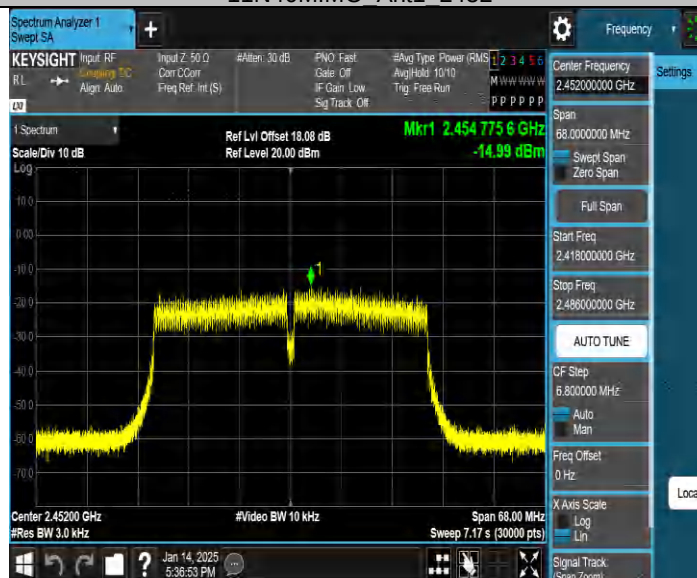
11N40MIMO Ant1 2437



11N40MIMO Ant2 2437



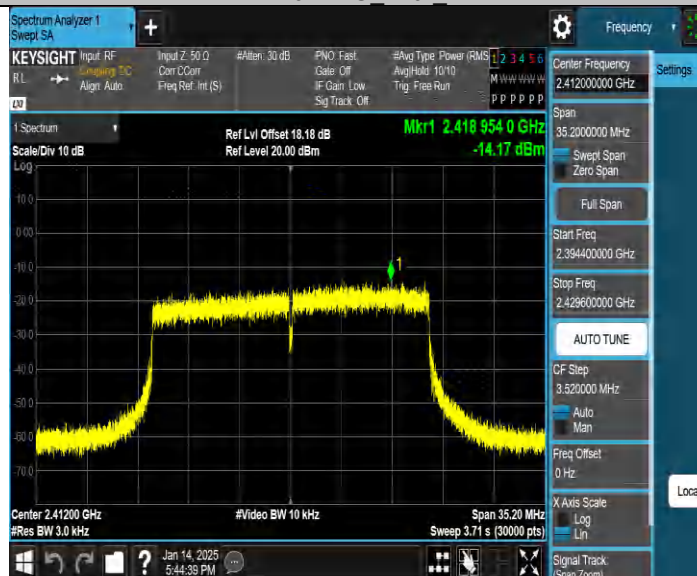
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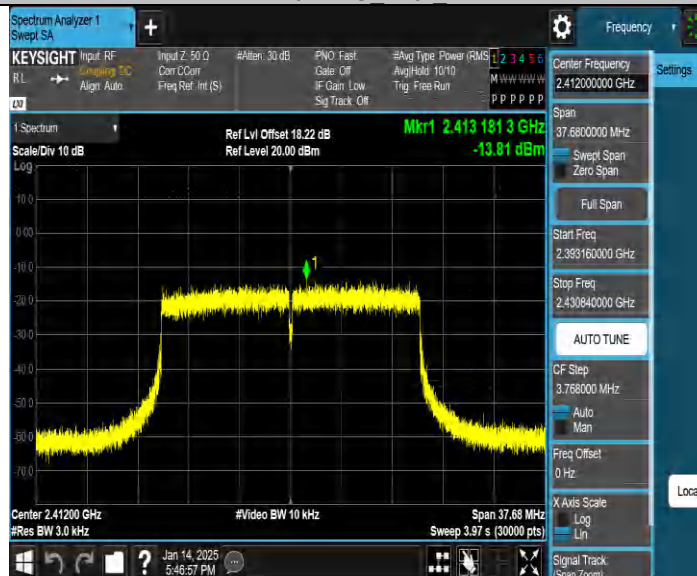
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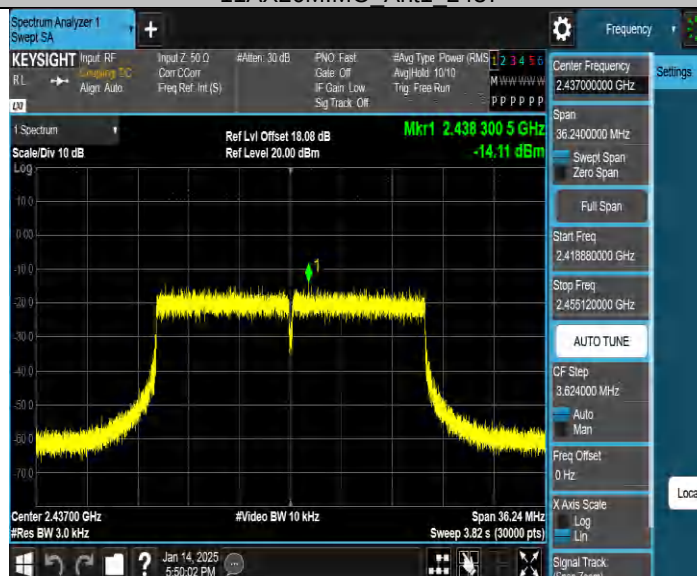
11AX20MIMO_Ant1_2412



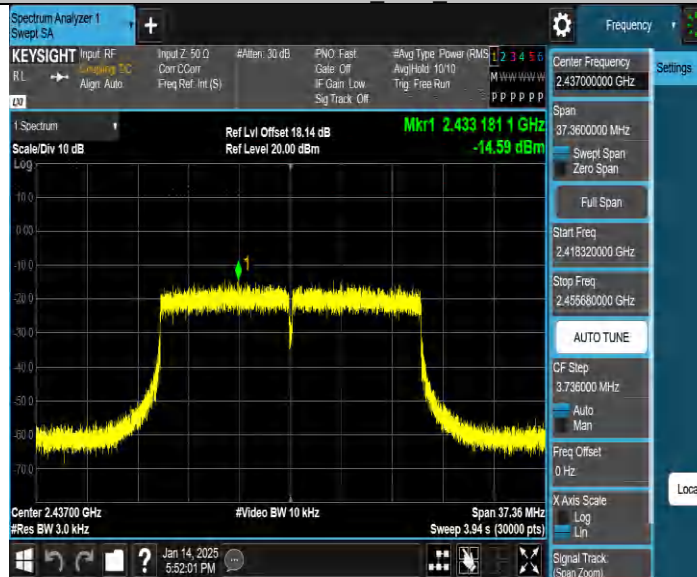
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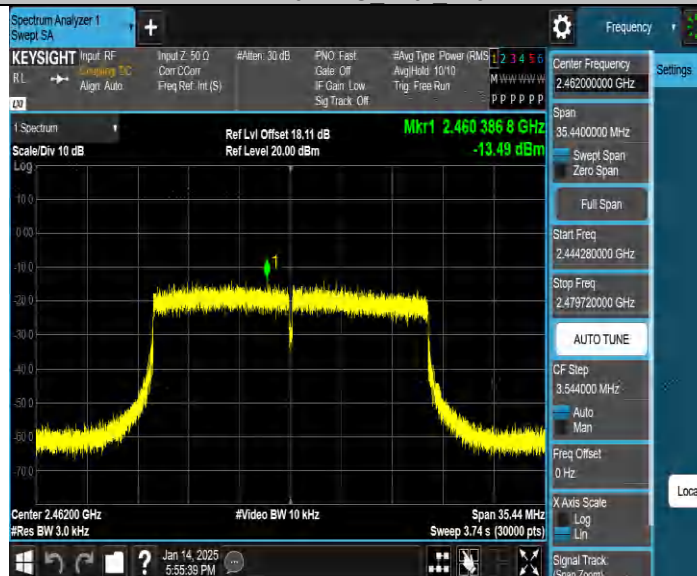
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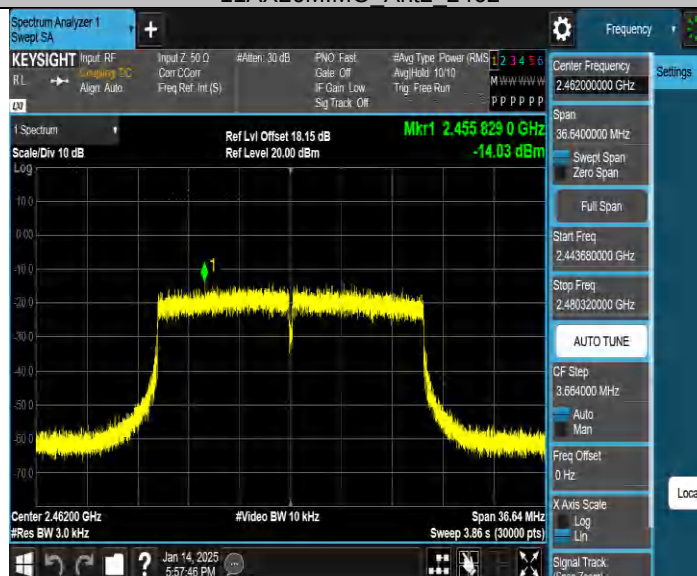
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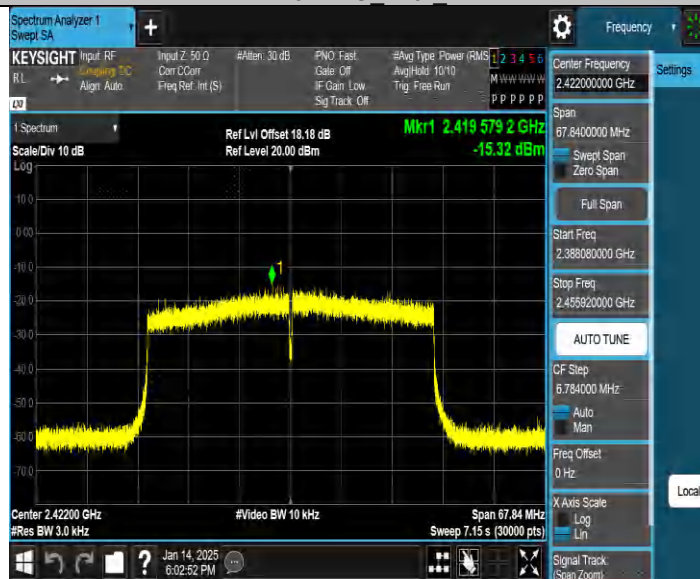
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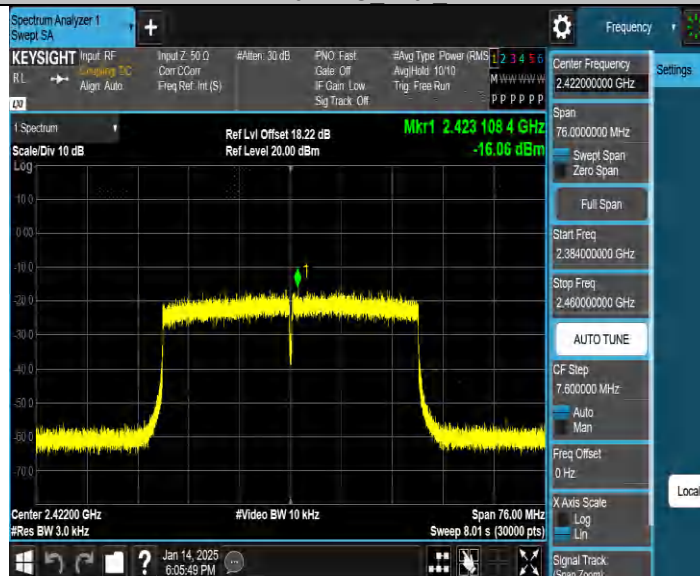
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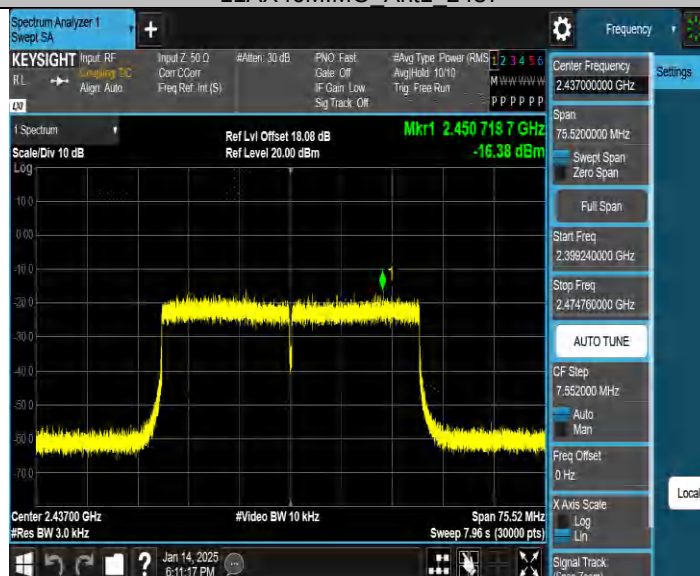
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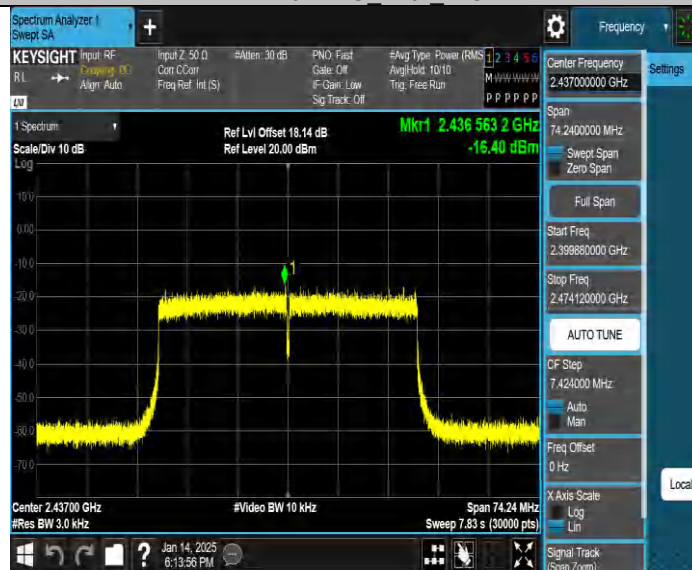
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11AX40MIMO_Ant1_2437



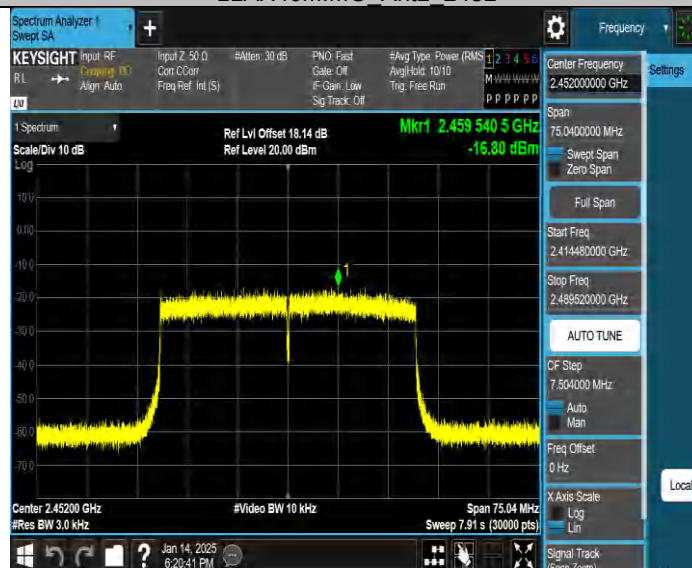
11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



Appendix C.2: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	8.080	2408.440	2416.520	0.5	PASS
	Ant2	2412	8.000	2408.000	2416.000	0.5	PASS
	Ant1	2437	8.040	2432.520	2440.560	0.5	PASS
	Ant2	2437	7.760	2433.240	2441.000	0.5	PASS
	Ant1	2462	7.560	2458.000	2465.560	0.5	PASS
	Ant2	2462	7.120	2458.440	2465.560	0.5	PASS
11G-CDD	Ant1	2412	15.920	2404.240	2420.160	0.5	PASS
	Ant2	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant2	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant1	2462	16.080	2453.840	2469.920	0.5	PASS
	Ant2	2462	16.320	2453.840	2470.160	0.5	PASS
11N20MIMO	Ant1	2412	16.920	2403.880	2420.800	0.5	PASS
	Ant2	2412	17.560	2403.240	2420.800	0.5	PASS
	Ant1	2437	17.240	2428.200	2445.440	0.5	PASS
	Ant2	2437	17.280	2428.480	2445.760	0.5	PASS
	Ant1	2462	16.520	2453.240	2469.760	0.5	PASS
	Ant2	2462	17.560	2453.200	2470.760	0.5	PASS
11N40MIMO	Ant1	2422	32.800	2406.960	2439.760	0.5	PASS
	Ant2	2422	35.680	2404.480	2440.160	0.5	PASS
	Ant1	2437	35.440	2419.080	2454.520	0.5	PASS
	Ant2	2437	36.000	2419.160	2455.160	0.5	PASS
	Ant1	2452	34.000	2434.240	2468.240	0.5	PASS
	Ant2	2452	36.320	2433.840	2470.160	0.5	PASS
11AX20MIMO	Ant1	2412	17.600	2403.880	2421.480	0.5	PASS
	Ant2	2412	18.840	2402.600	2421.440	0.5	PASS
	Ant1	2437	18.120	2427.520	2445.640	0.5	PASS
	Ant2	2437	18.680	2427.680	2446.360	0.5	PASS
	Ant1	2462	17.720	2452.680	2470.400	0.5	PASS
	Ant2	2462	18.320	2452.560	2470.880	0.5	PASS
11AX40MIMO	Ant1	2422	33.920	2406.480	2440.400	0.5	PASS
	Ant2	2422	38.000	2403.040	2441.040	0.5	PASS
	Ant1	2437	37.760	2418.120	2455.880	0.5	PASS
	Ant2	2437	37.120	2418.600	2455.720	0.5	PASS
	Ant1	2452	36.720	2433.040	2469.760	0.5	PASS
	Ant2	2452	37.520	2433.200	2470.720	0.5	PASS

Test Graphs



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 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_Ant2_2437



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462





11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



Appendix C.3: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.602	2405.4095	2419.0115	---	PASS
	Ant2	2412	13.216	2405.4190	2418.6350	---	PASS
	Ant1	2437	13.559	2430.0616	2443.6206	---	PASS
	Ant2	2437	13.168	2430.4355	2443.6035	---	PASS
	Ant1	2462	13.355	2455.2266	2468.5816	---	PASS
	Ant2	2462	13.550	2455.1785	2468.7285	---	PASS
11G-CDD	Ant1	2412	16.613	2403.7741	2420.3871	---	PASS
	Ant2	2412	16.522	2403.7660	2420.2880	---	PASS
	Ant1	2437	16.609	2428.6490	2445.2580	---	PASS
	Ant2	2437	16.506	2428.7801	2445.2861	---	PASS
	Ant1	2462	16.456	2453.7438	2470.1998	---	PASS
	Ant2	2462	16.527	2453.7395	2470.2665	---	PASS
11N20MIMO	Ant1	2412	17.786	2403.1688	2420.9548	---	PASS
	Ant2	2412	17.698	2403.1837	2420.8817	---	PASS
	Ant1	2437	17.744	2428.0814	2445.8254	---	PASS
	Ant2	2437	17.698	2428.1724	2445.8704	---	PASS
	Ant1	2462	17.610	2453.1663	2470.7763	---	PASS
	Ant2	2462	17.708	2453.1567	2470.8647	---	PASS
11N40MIMO	Ant1	2422	36.005	2404.0606	2440.0656	---	PASS
	Ant2	2422	36.242	2403.9233	2440.1653	---	PASS
	Ant1	2437	36.220	2418.9086	2455.1286	---	PASS
	Ant2	2437	36.186	2418.9324	2455.1184	---	PASS
	Ant1	2452	36.118	2433.8792	2469.9972	---	PASS
	Ant2	2452	36.220	2433.9026	2470.1226	---	PASS
11AX20MIMO	Ant1	2412	19.047	2402.5355	2421.5825	---	PASS
	Ant2	2412	18.992	2402.5169	2421.5089	---	PASS
	Ant1	2437	19.027	2427.4465	2446.4735	---	PASS
	Ant2	2437	19.023	2427.5076	2446.5306	---	PASS
	Ant1	2462	18.944	2452.4824	2471.4264	---	PASS
	Ant2	2462	18.982	2452.5280	2471.5100	---	PASS
11AX40MIMO	Ant1	2422	37.734	2403.1476	2440.8816	---	PASS
	Ant2	2422	37.817	2403.1378	2440.9548	---	PASS
	Ant1	2437	37.861	2418.1169	2455.9779	---	PASS
	Ant2	2437	37.794	2418.1412	2455.9352	---	PASS
	Ant1	2452	37.787	2433.0253	2470.8123	---	PASS
	Ant2	2452	37.850	2433.1061	2470.9561	---	PASS

Test Graphs

11B-CDD Ant1 2412



11B-CDD Ant2 2412



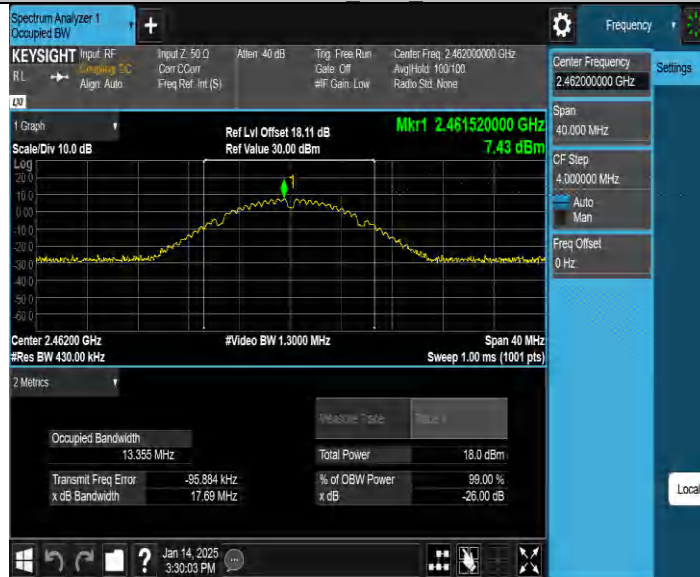
11B-CDD Ant1 2437



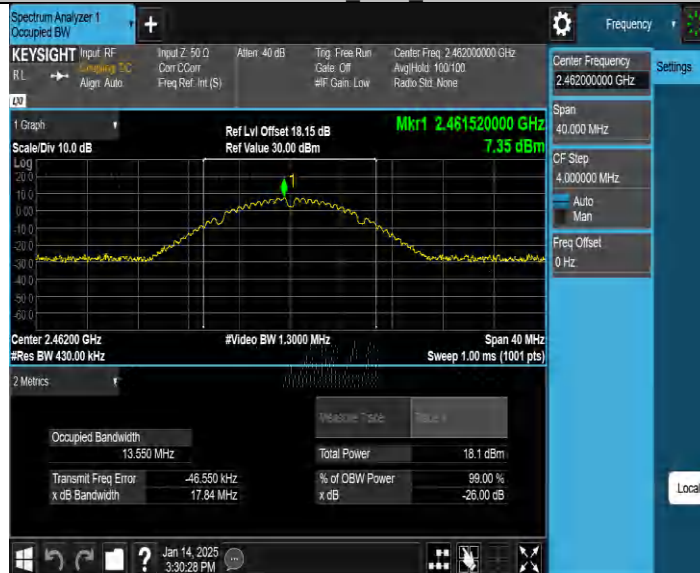
11B-CDD Ant2 2437



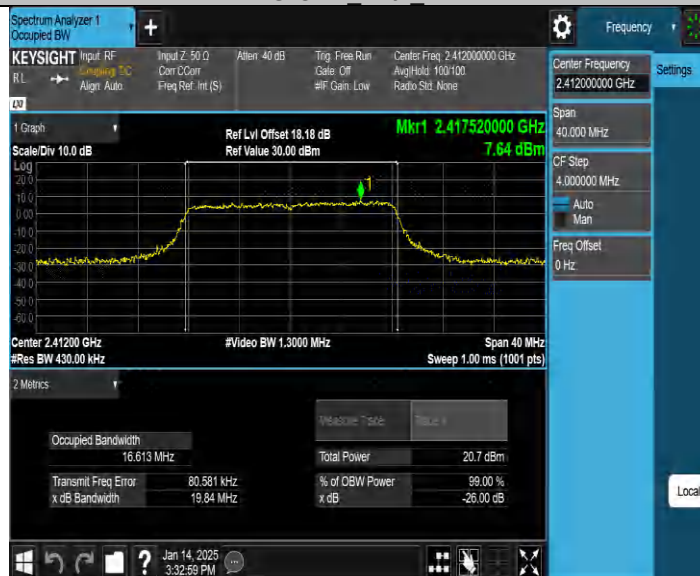
11B-CDD Ant1 2462



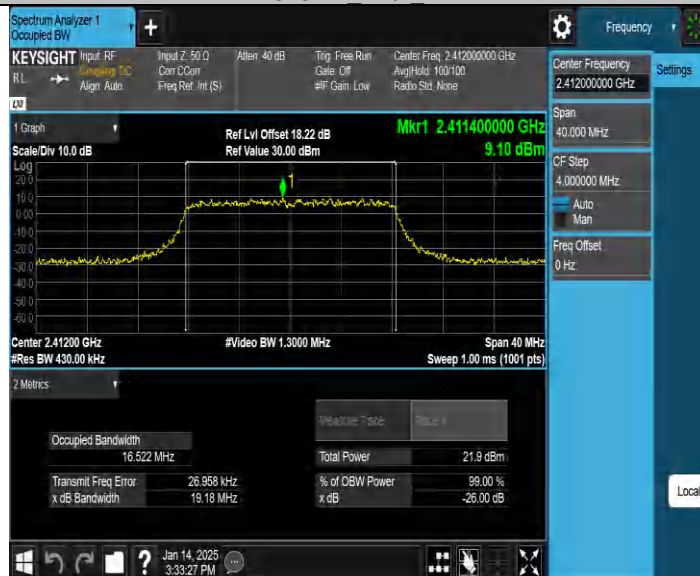
11B-CDD Ant2 2462



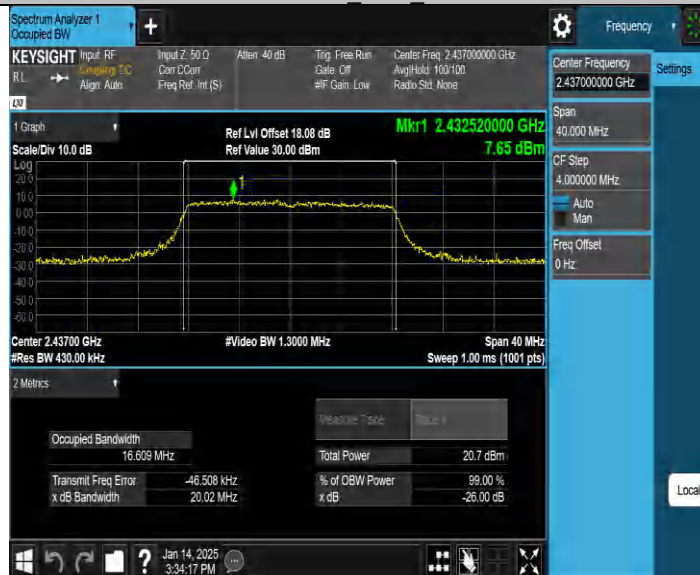
11G-CDD Ant1 2412



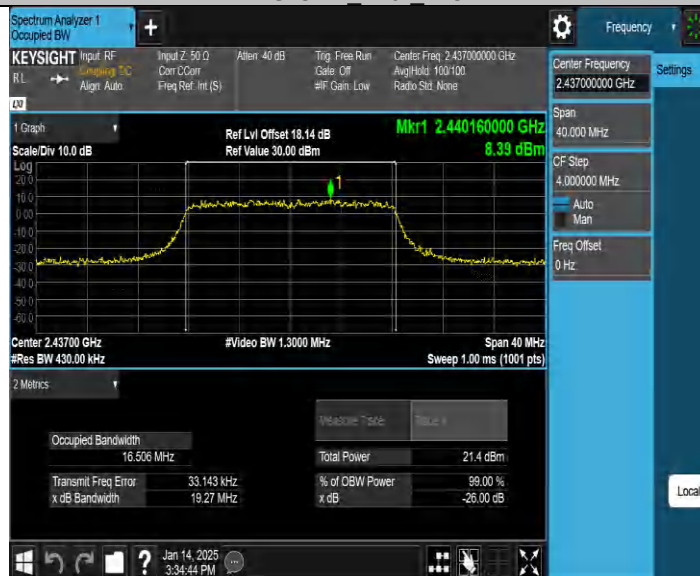
11G-CDD Ant2 2412



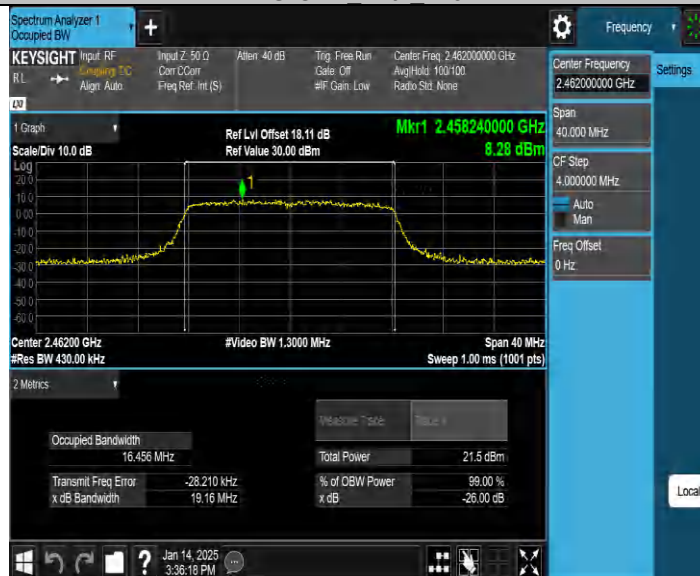
11G-CDD Ant1 2437



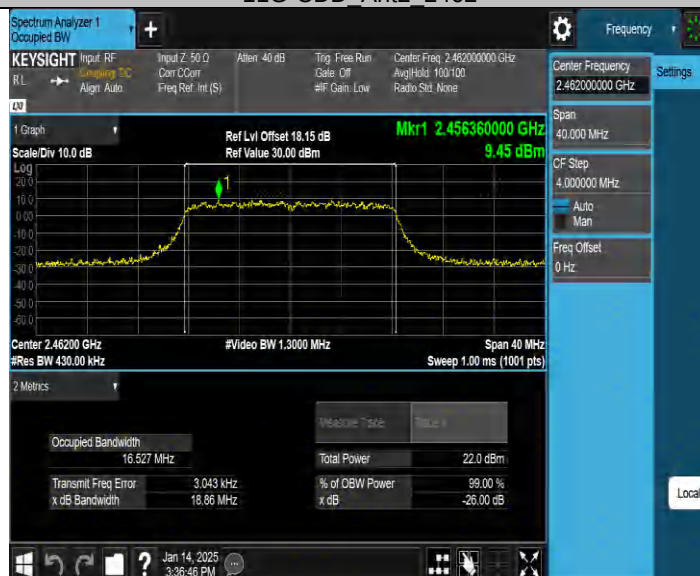
11G-CDD Ant2 2437



11G-CDD Ant1 2462



11G-CDD Ant2 2462















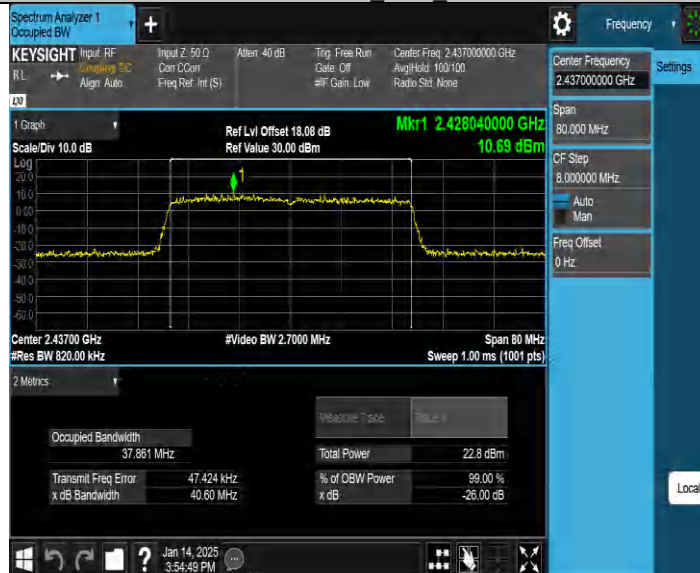
11AX40MIMO_Ant1_2422



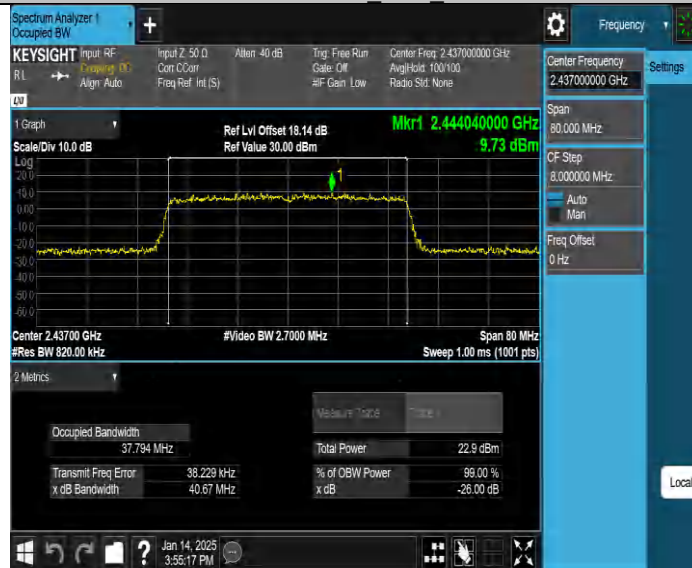
11AX40MIMO_Ant2_2422



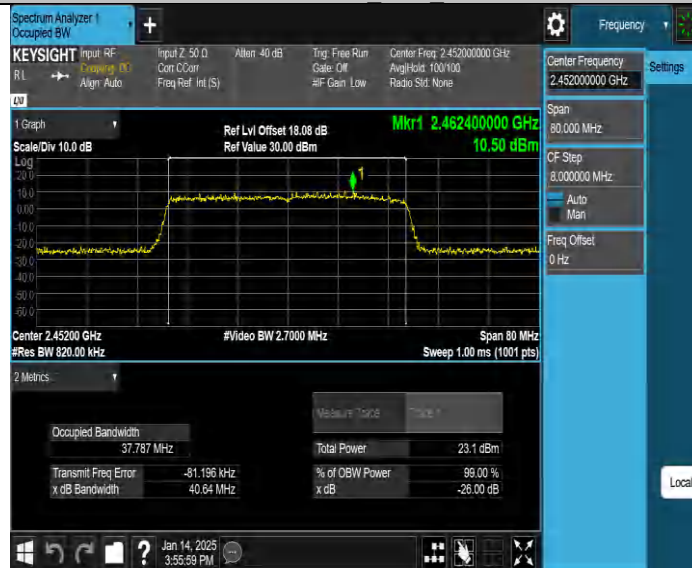
11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



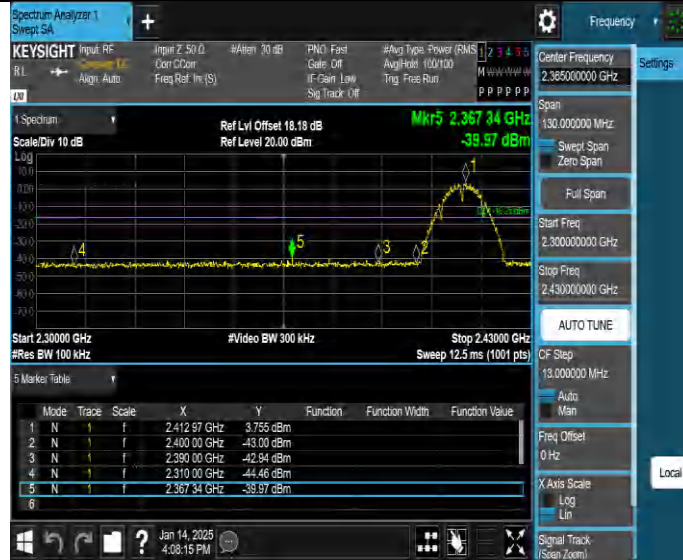
Appendix C.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	3.76	-39.97	≤-16.25	PASS
		High	2462	5.00	-40.74	≤-15	PASS
11G-CDD	Ant1	Low	2412	1.04	-38.21	≤-18.96	PASS
		High	2462	1.30	-40.58	≤-18.7	PASS
11N20MIMO	Ant1	Low	2412	0.31	-38.08	≤-19.69	PASS
		High	2462	-0.06	-40.81	≤-20.06	PASS
11N40MIMO	Ant1	Low	2422	-1.51	-40.24	≤-21.51	PASS
		High	2452	-1.96	-40.03	≤-21.96	PASS
11AX20MIMO	Ant1	Low	2412	1.09	-37.24	≤-18.91	PASS
		High	2462	0.42	-39.55	≤-19.58	PASS
11AX40MIMO	Ant1	Low	2422	-2.88	-39.24	≤-22.88	PASS
		High	2452	-0.91	-41.04	≤-20.91	PASS

Test Graphs

11B-CDD Ant1 Low 2412



11B-CDD Ant1 High 2462



11G-CDD Ant1 Low 2412



11G-CDD Ant1 High 2462



11N20MIMO Ant1 Low 2412



11N20MIMO Ant1 High 2462



11N40MIMO Ant1 Low 2422



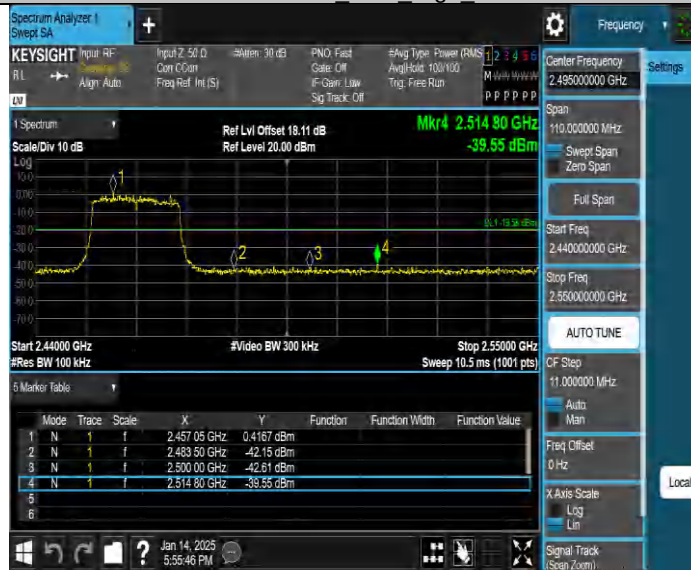
11N40MIMO Ant1 High 2452



11AX20MIMO Ant1 Low 2412



11AX20MIMO Ant1 High 2462



11AX40MIMO Ant1 Low 2422



11AX40MIMO Ant1 High 2452



Appendix C.5: Test Results of Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	Reference	2.85	2.85	---	PASS
			30~1000	2.85	-41.76	≤-17.15	PASS
			1000~26500	2.85	-33.64	≤-17.15	PASS
		2437	Reference	3.05	3.05	---	PASS
			30~1000	3.05	-41.78	≤-16.95	PASS
			1000~26500	3.05	-33.18	≤-16.95	PASS
		2462	Reference	4.82	4.82	---	PASS
			30~1000	4.82	-42.3	≤-15.18	PASS
			1000~26500	4.82	-32.95	≤-15.18	PASS
11G-CDD	Ant1	2412	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-41.71	≤-22.25	PASS
			1000~26500	-2.25	-33.01	≤-22.25	PASS
		2437	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-42.08	≤-22.33	PASS
			1000~26500	-2.33	-33.4	≤-22.33	PASS
		2462	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-42.07	≤-22.04	PASS
			1000~26500	-2.04	-32.68	≤-22.04	PASS
11N20MIMO	Ant1	2412	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-41.11	≤-21.4	PASS
			1000~26500	-1.40	-32.45	≤-21.4	PASS
		2437	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-41.4	≤-20.77	PASS
			1000~26500	-0.77	-33.21	≤-20.77	PASS
		2462	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-41.36	≤-22.01	PASS
			1000~26500	-2.01	-32.98	≤-22.01	PASS
11N40MIMO	Ant1	2422	Reference	-3.70	-3.70	---	PASS
			30~1000	-3.70	-41.64	≤-23.7	PASS
			1000~26500	-3.70	-33.39	≤-23.7	PASS
		2437	Reference	-4.60	-4.60	---	PASS
			30~1000	-4.60	-41.15	≤-24.6	PASS
			1000~26500	-4.60	-32.88	≤-24.6	PASS
		2452	Reference	-4.29	-4.29	---	PASS
			30~1000	-4.29	-40.25	≤-24.29	PASS
			1000~26500	-4.29	-32.71	≤-24.29	PASS
11AX20MIMO	Ant1	2412	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-42.01	≤-21.03	PASS
			1000~26500	-1.03	-32.71	≤-21.03	PASS
		2437	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-41.99	≤-22.94	PASS
			1000~26500	-2.94	-32.19	≤-22.94	PASS
		2462	Reference	1.33	1.33	---	PASS
			30~1000	1.33	-42.22	≤-18.67	PASS
			1000~26500	1.33	-32.94	≤-18.67	PASS
11AX40MIMO	Ant1	2422	Reference	-2.48	-2.48	---	PASS
			30~1000	-2.48	-41.49	≤-22.48	PASS
			1000~26500	-2.48	-32.81	≤-22.48	PASS
		2437	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-41.79	≤-25.11	PASS
			1000~26500	-5.11	-33	≤-25.11	PASS
		2452	Reference	-3.17	-3.17	---	PASS
			30~1000	-3.17	-42.23	≤-23.17	PASS
			1000~26500	-3.17	-33.16	≤-23.17	PASS

Test Graphs

11B-CDD Ant1_2412_0-Reference



11B-CDD Ant1_2412_30-1000



11B-CDD Ant1_2412_1000-26500



11B-CDD Ant1 2437 0-Reference



11B-CDD Ant1 2437 30-1000



11B-CDD Ant1 2437 1000-26500



11B-CDD Ant1 2462 0-Reference



11B-CDD Ant1 2462 30-1000



11B-CDD Ant1 2462 1000-26500



11G-CDD Ant1 2412 0-Reference



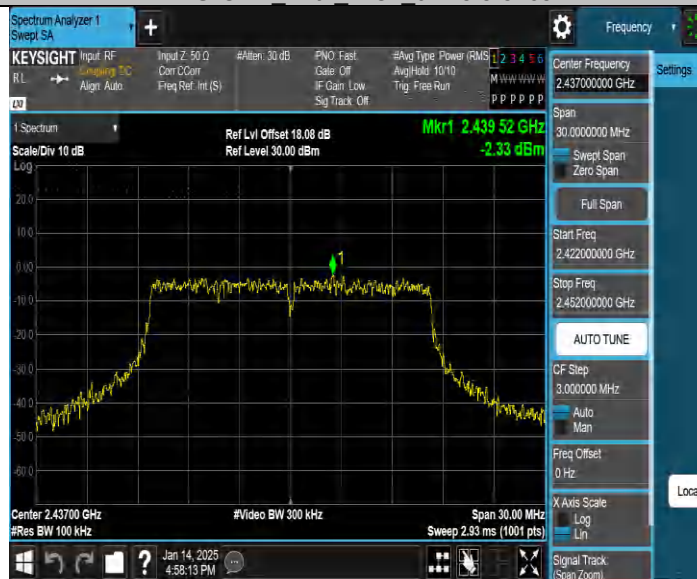
11G-CDD Ant1 2412 30-1000



11G-CDD Ant1 2412 1000-26500



11G-CDD Ant1 2437 0-Reference



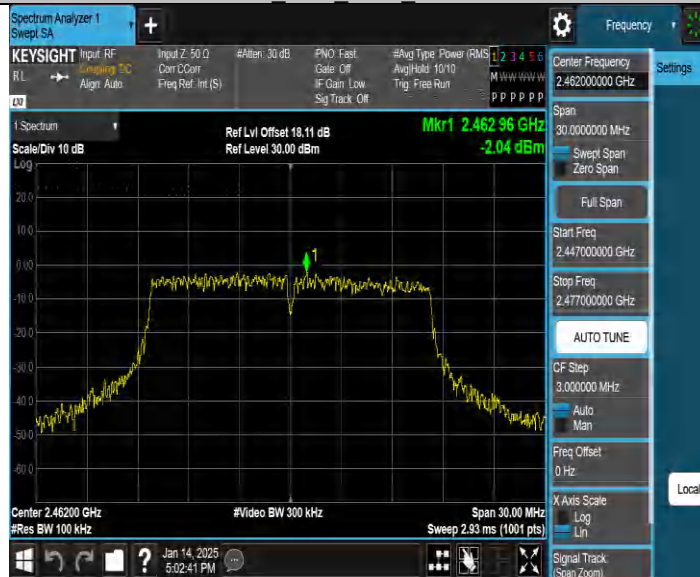
11G-CDD Ant1 2437 30-1000



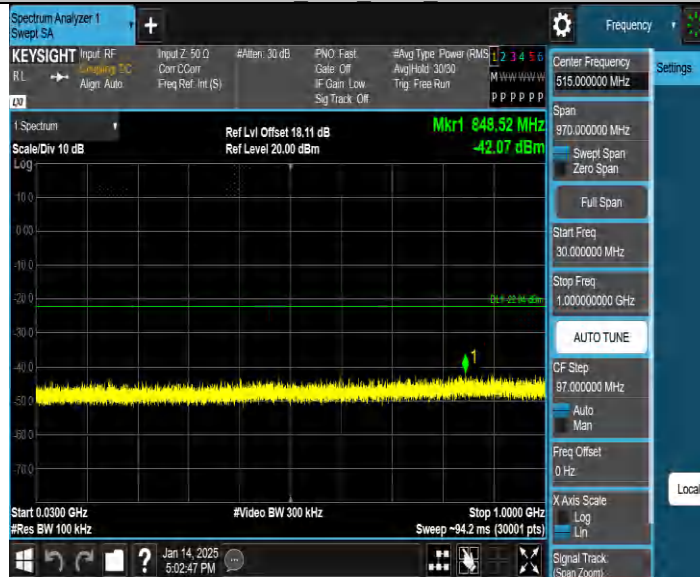
11G-CDD Ant1 2437 1000-26500



11G-CDD Ant1 2462 0-Reference



11G-CDD Ant1 2462 30-1000

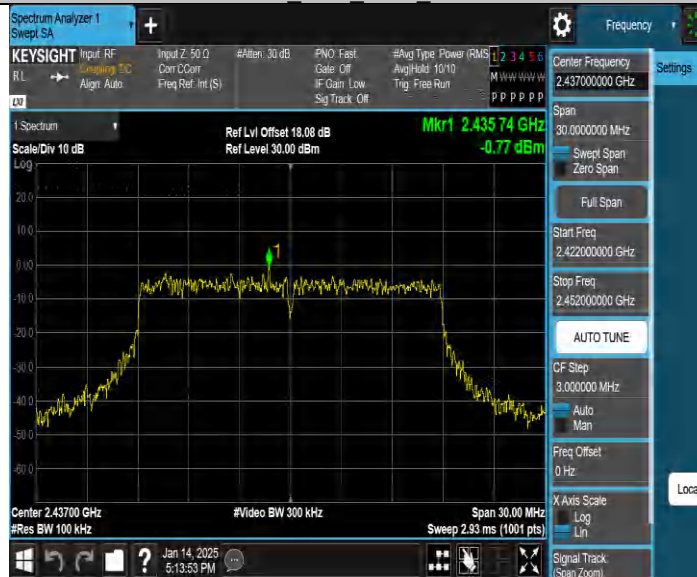


11G-CDD Ant1 2462 1000-26500





11N20MIMO Ant1 2437 0-Reference



11N20MIMO Ant1 2437 30-1000



11N20MIMO Ant1 2437 1000-26500



11N20MIMO Ant1 2462 0-Reference



11N20MIMO Ant1 2462 30-1000



11N20MIMO Ant1 2462 1000-26500



11N40MIMO Ant1 2422 0-Reference



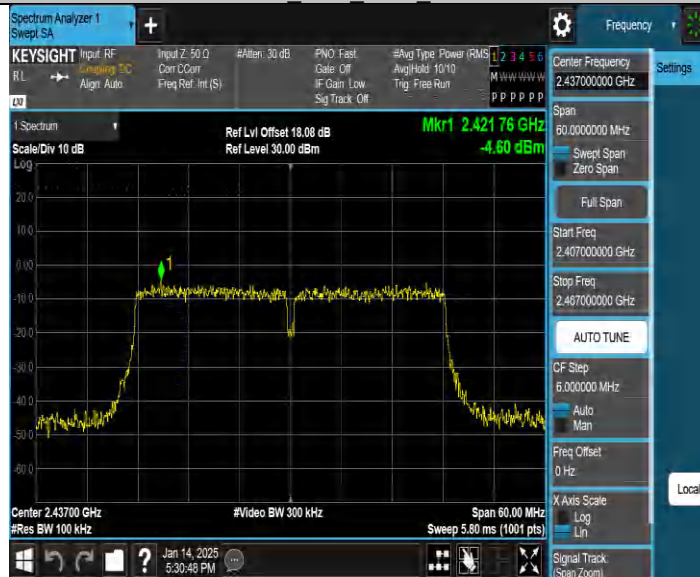
11N40MIMO Ant1 2422 30-1000



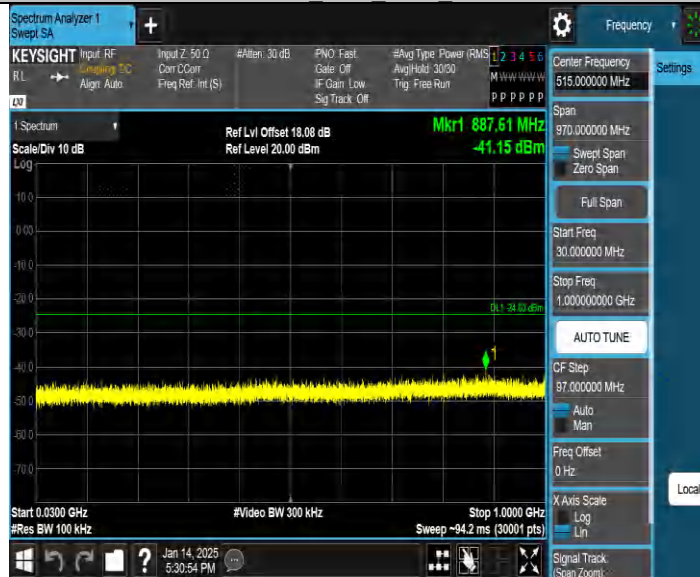
11N40MIMO Ant1 2422 1000-26500



11N40MIMO Ant1 2437 0-Reference



11N40MIMO Ant1 2437 30-1000



11N40MIMO Ant1 2437 1000-26500



11N40MIMO Ant1 2452 0-Reference



11N40MIMO Ant1 2452 30-1000



11N40MIMO Ant1 2452 1000-26500



11AX20MIMO Ant1 2412 0-Reference



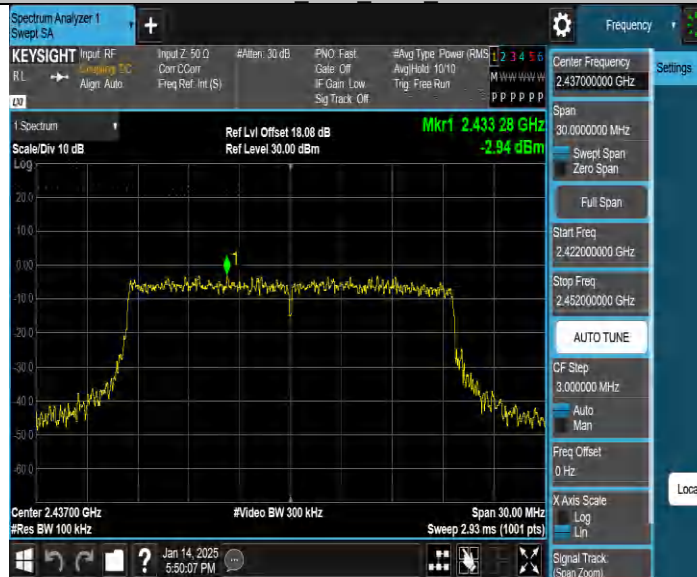
11AX20MIMO Ant1 2412 30-1000



11AX20MIMO Ant1 2412 1000-26500



11AX20MIMO Ant1 2437 0-Reference



11AX20MIMO Ant1 2437 30-1000



11AX20MIMO Ant1 2437 1000-26500



11AX20MIMO Ant1 2462 0-Reference



11AX20MIMO Ant1 2462 30-1000



11AX20MIMO Ant1 2462 1000-26500



11AX40MIMO Ant1 2422 0-Reference



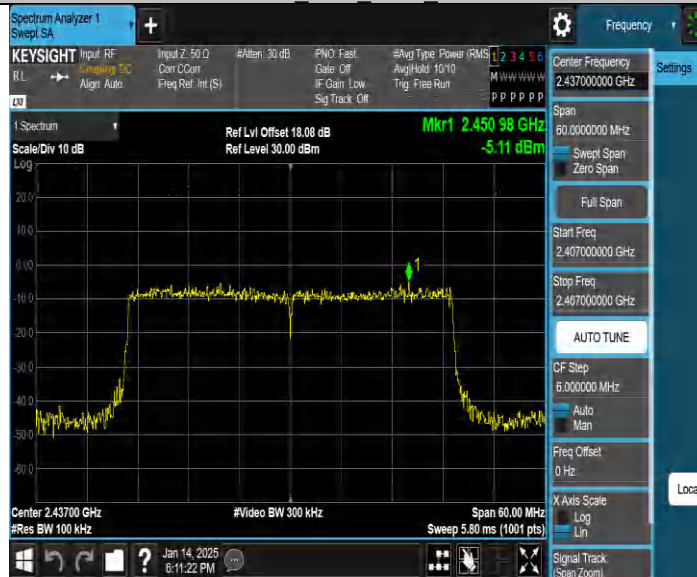
11AX40MIMO Ant1 2422 30-1000



11AX40MIMO Ant1 2422 1000-26500



11AX40MIMO Ant1 2437 0-Reference



11AX40MIMO Ant1 2437 30-1000



11AX40MIMO Ant1 2437 1000-26500



11AX40MIMO Ant1 2452 0-Reference



11AX40MIMO Ant1 2452 30-1000



11AX40MIMO Ant1 2452 1000-26500



Appendix C.6: Test Results of Radiated Spurious Emissions

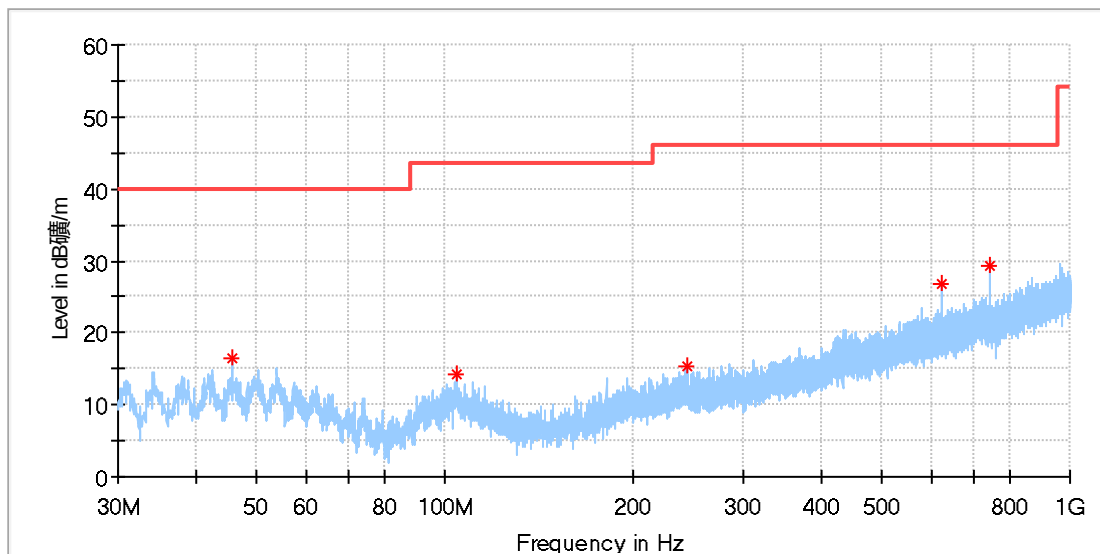
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Digital Cockpit Head Unit
Model:	DHU2.5_A
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168516757/A003881754-002
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

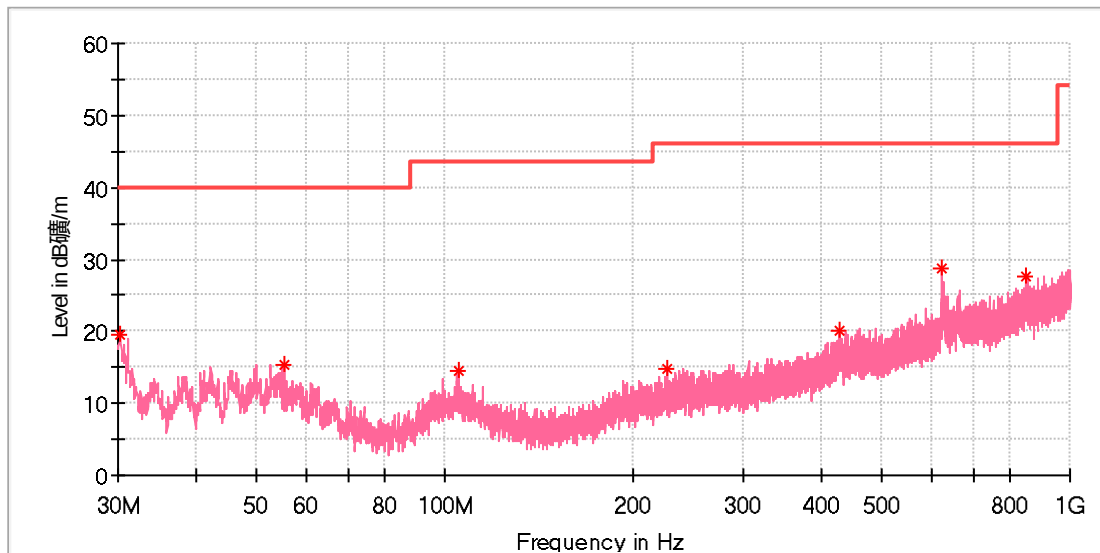
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.706539	16.43	40.00	23.57	100.0	H	64.0	-18.8
104.167692	14.20	43.50	29.30	100.0	H	301.0	-18.9
243.922308	15.27	46.00	30.73	100.0	H	349.0	-17.6
625.020385	26.69	46.00	19.31	100.0	H	245.0	-9.2
742.502308	29.17	46.00	16.83	100.0	H	56.0	-7.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.149231	19.55	40.00	20.45	100.0	V	203.0	-23.0
55.331923	15.46	40.00	24.54	100.0	V	165.0	-18.6
104.988462	14.49	43.50	29.01	100.0	V	96.0	-18.9
227.469615	14.67	46.00	31.33	100.0	V	20.0	-18.3
426.618077	20.20	46.00	25.80	100.0	V	96.0	-13.2
625.020385	28.88	46.00	17.12	100.0	V	165.0	-9.2
850.620000	27.71	46.00	18.29	100.0	V	0.0	-5.4

Final Result

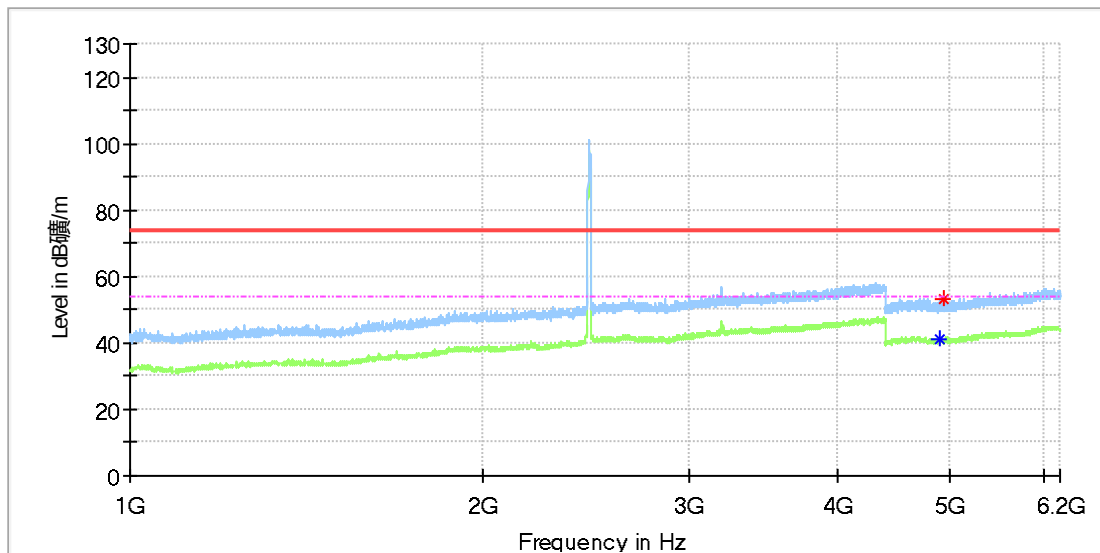
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

EUT Information

EUT Name:	Digital Cockpit Head Unit
Model:	DHU2.5_A
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168516757/A003881754-002
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

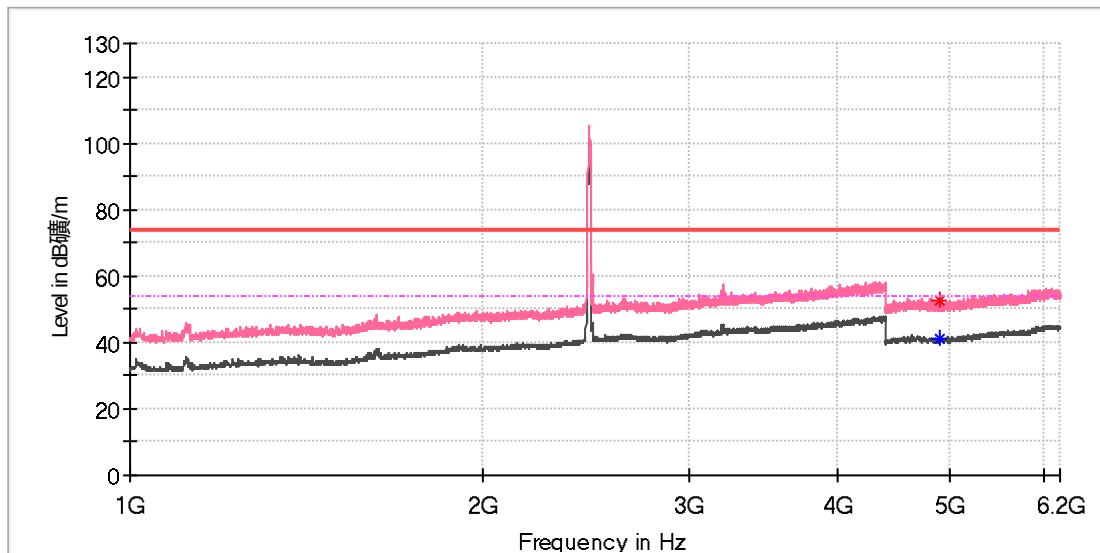
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4906.000000	---	41.40	54.00	12.60	150.0	H	180.0	13.3
4945.000000	52.94	---	74.00	21.06	150.0	H	0.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

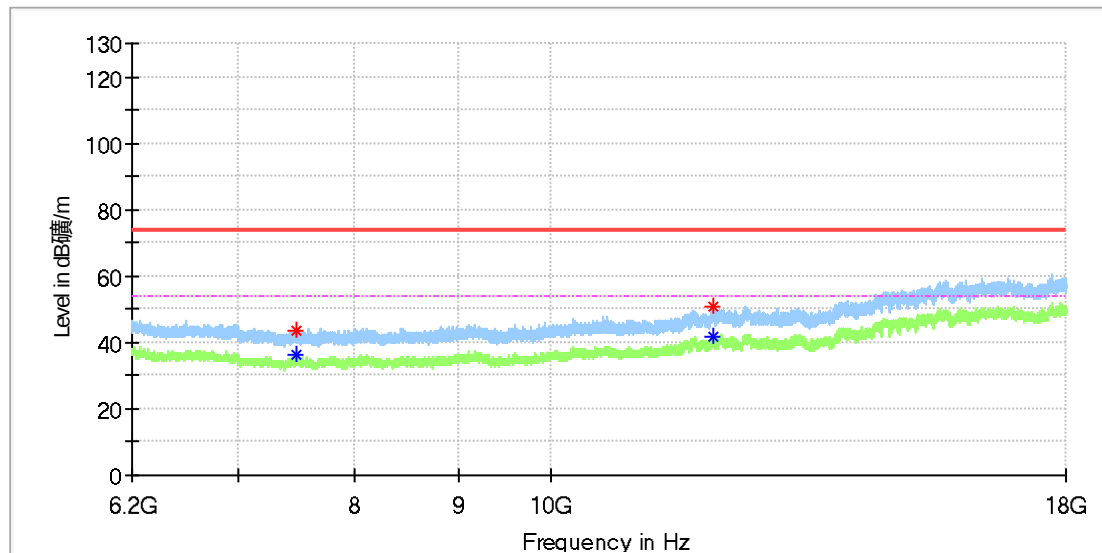
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4903.500000	---	41.00	54.00	13.00	150.0	V	97.0	13.3
4905.500000	52.58	---	74.00	21.42	150.0	V	184.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

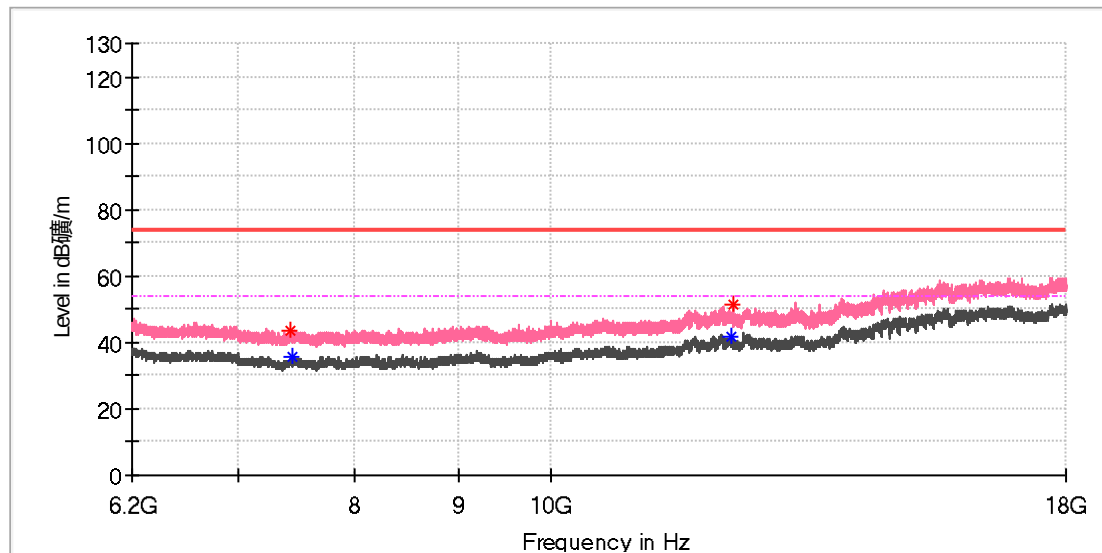
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7481.775000	---	36.32	54.00	17.68	150.0	H	293.0	8.7
7482.758333	43.71	---	74.00	30.30	150.0	H	32.0	8.7
12041.000000	50.81	---	74.00	23.19	150.0	H	272.0	16.2
12041.000000	---	41.63	54.00	12.37	150.0	H	272.0	16.2

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

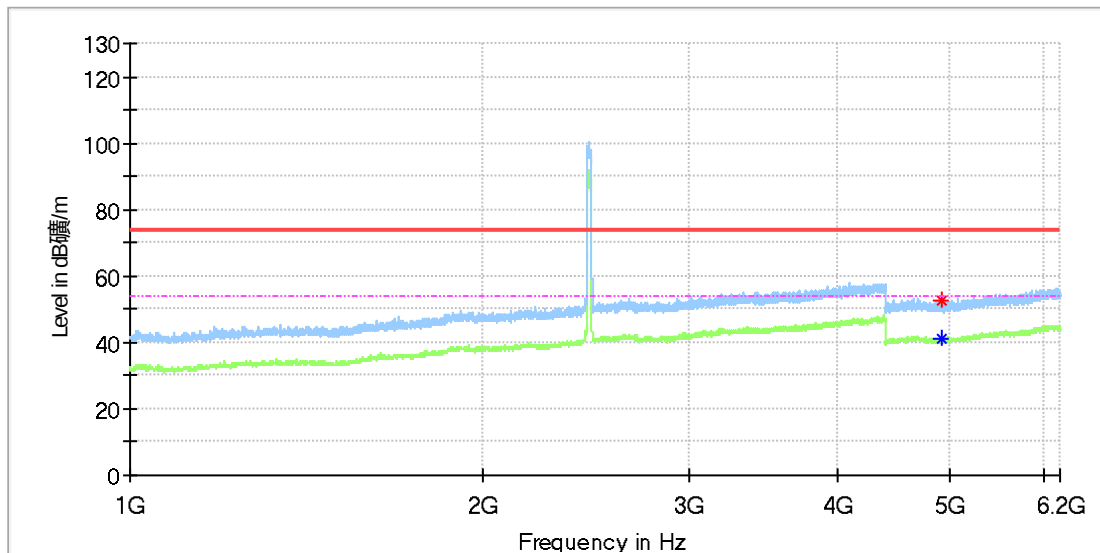
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7431.625000	43.53	---	74.00	30.47	150.0	V	0.0	8.4
7446.866667	---	35.39	54.00	18.61	150.0	V	22.0	8.5
12296.175000	---	42.00	54.00	12.00	150.0	V	0.0	16.0
12300.108333	51.13	---	74.00	22.87	150.0	V	355.0	15.9

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11ax20_Ch11
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

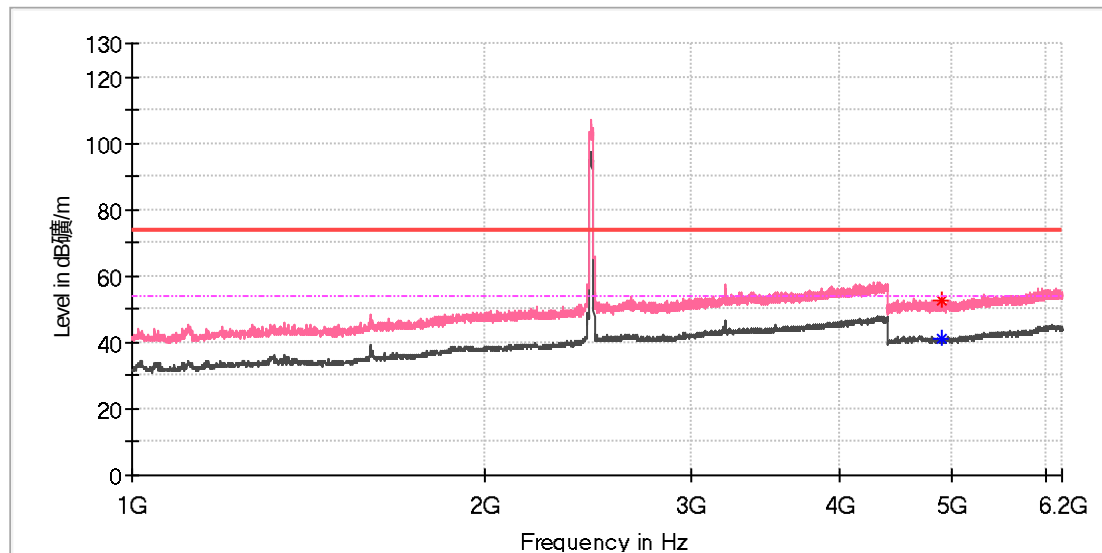
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4916.000000	---	41.11	54.00	12.89	150.0	H	102.0	13.3
4921.500000	52.57	---	74.00	21.43	150.0	H	47.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11ax20_Ch11
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

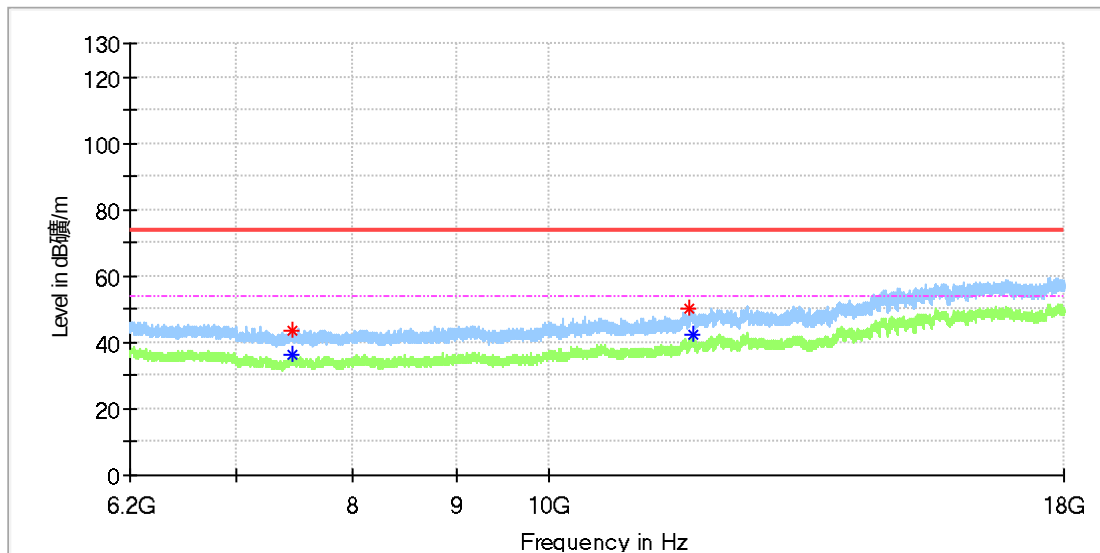
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4901.500000	52.34	---	74.00	21.66	150.0	V	56.0	13.3
4903.500000	---	41.38	54.00	12.62	150.0	V	136.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11ax20_Ch11
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

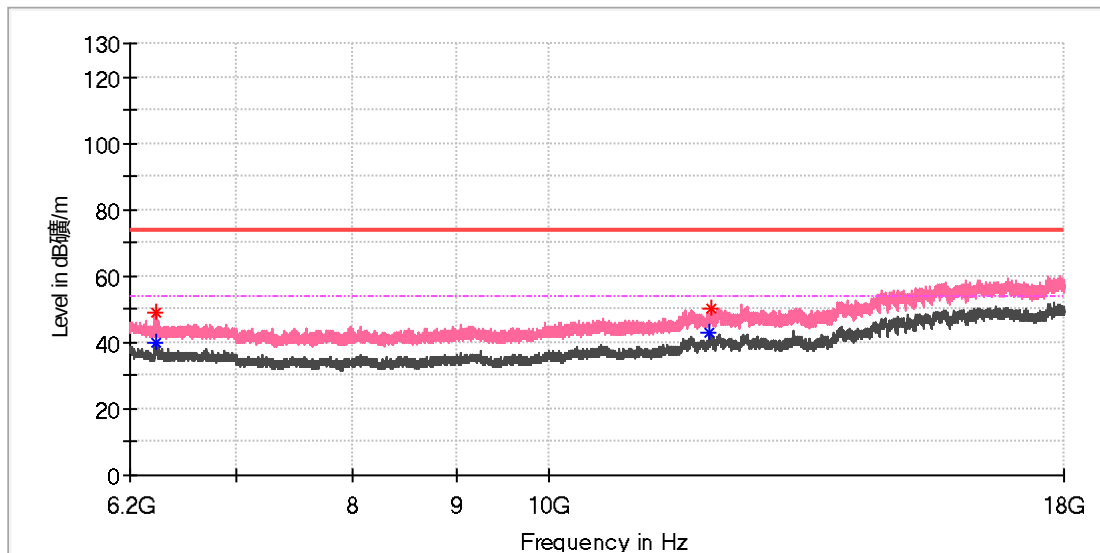
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7457.683333	---	36.09	54.00	17.91	150.0	H	0.0	8.5
7461.616667	43.79	---	74.00	30.21	150.0	H	181.0	8.6
11749.441667	50.04	---	74.00	23.96	150.0	H	170.0	15.5
11777.958333	---	42.12	54.00	11.88	150.0	H	320.0	15.1

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11ax20_Ch11
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6384.375000	48.76	---	74.00	25.24	150.0	V	284.0	8.9
6384.375000	---	40.18	54.00	13.82	150.0	V	284.0	8.9
12011.008333	---	42.69	54.00	11.31	150.0	V	68.0	15.5
12037.558333	50.13	---	74.00	23.87	150.0	V	139.0	16.1

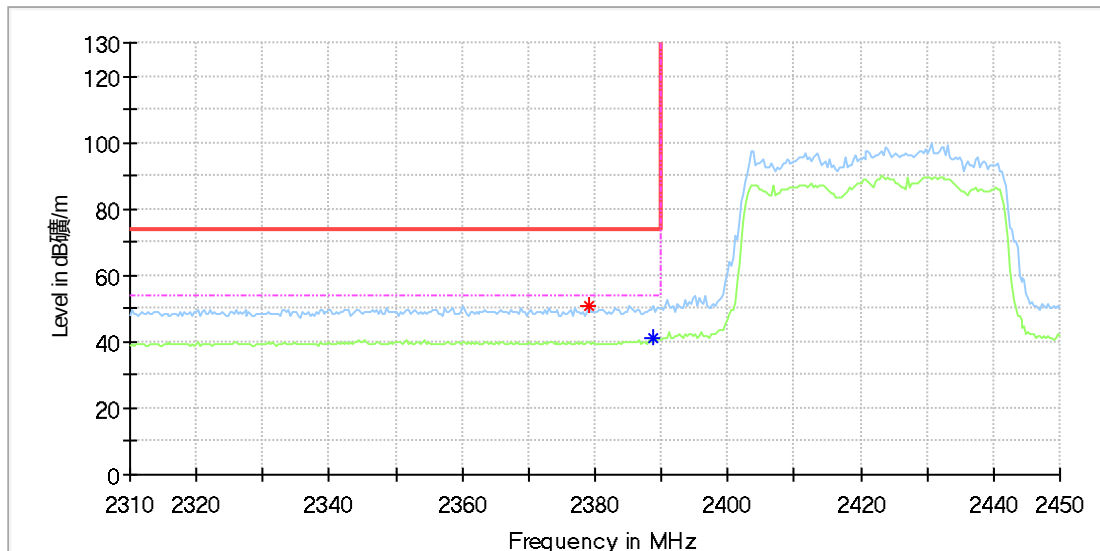
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix C.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Digital Cockpit Head Unit
Model:	DHU2.5_A
Test Mode:	WIFI 2.4G_11ax40_Ch3
Order No/Sample No:	168516757/A003881754-002
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

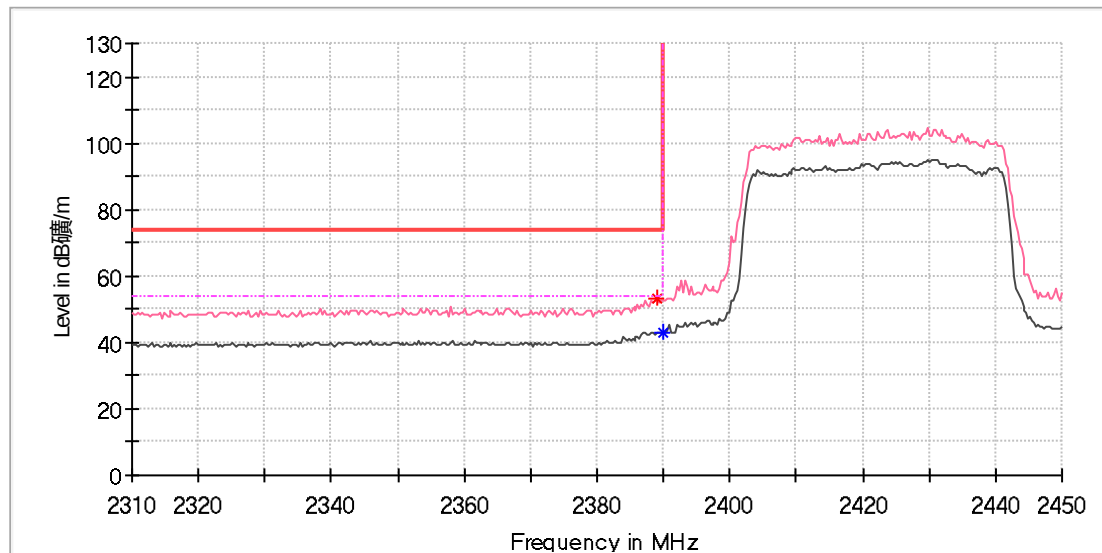
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2379.117647	50.71	---	74.00	23.29	150.0	H	69.0	8.5
2388.823529	---	41.29	54.00	12.71	150.0	H	346.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Digital Cockpit Head Unit
Model:	DHU2.5_A
Test Mode:	WIFI 2.4G_11ax40_Ch3
Order No/Sample No:	168516757/A003881754-002
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

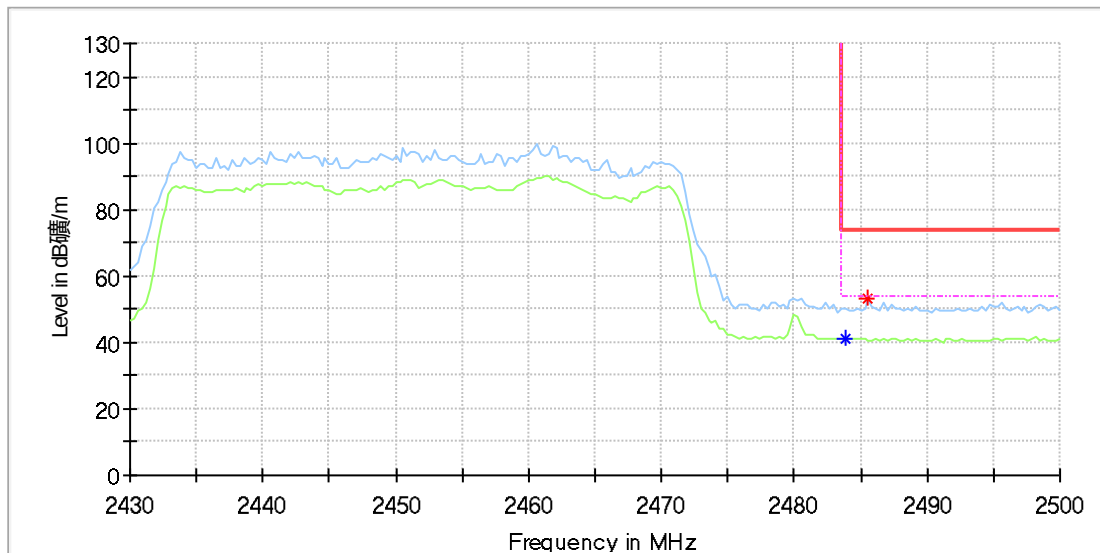
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.117647	53.43	---	74.00	20.57	150.0	V	145.0	8.5
2390.000000	---	43.22	54.00	10.78	150.0	V	145.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11ax40_Ch9
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

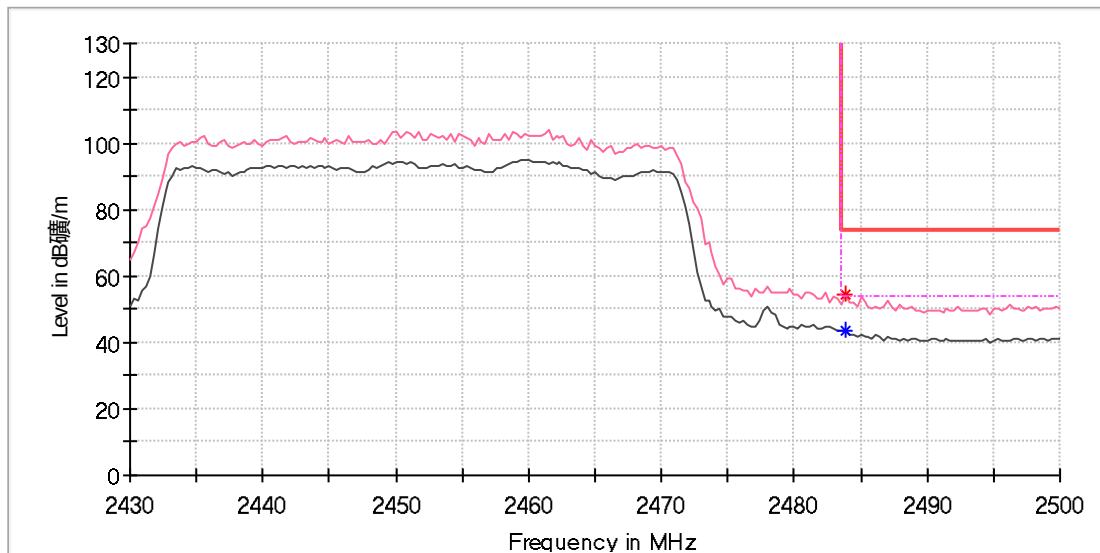
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	---	41.24	54.00	12.76	150.0	H	190.0	9.0
2485.588235	53.22	---	74.00	20.78	150.0	H	320.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Digital Cockpit Head Unit
Model: DHU2.5_A
Test Mode: WIFI 2.4G_11ax40_Ch9
Order No/Sample No: 168516757/A003881754-002
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	---	43.59	54.00	10.41	150.0	V	156.0	9.0
2483.823529	54.39	---	74.00	19.61	150.0	V	156.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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