11N40MIMO_Ant2_2452

11N40MIMO_Ant3_2452

11N40MIMO_Ant4_2452

11AC20MIMO_Ant1_2412

11AC20MIMO_Ant2_2412

11AC20MIMO_Ant3_2412

11AC20MIMO_Ant4_2412

11AC20MIMO_Ant1_2437

11AC20MIMO_Ant2_2437

11AC20MIMO_Ant3_2437

11AC20MIMO_Ant4_2437

11AC20MIMO_Ant1_2462

11AC20MIMO_Ant2_2462

11AC20MIMO_Ant3_2462

11AC20MIMO_Ant4_2462

11AC40MIMO_Ant1_2422

11AC40MIMO_Ant2_2422

11AC40MIMO_Ant3_2422

11AC40MIMO_Ant4_2422

11AC40MIMO_Ant1_2437

11AC40MIMO_Ant2_2437

11AC40MIMO_Ant3_2437

11AC40MIMO_Ant4_2437

11AC40MIMO_Ant1_2452

11AC40MIMO_Ant2_2452

11AC40MIMO_Ant3_2452

11AC40MIMO_Ant4_2452

11AX20MIMO_Ant1_2412

11AX20MIMO_Ant2_2412

11AX20MIMO_Ant3_2412

11AX20MIMO_Ant4_2412

11AX20MIMO_Ant1_2437

11AX20MIMO_Ant2_2437

11AX20MIMO_Ant3_2437

11AX20MIMO_Ant4_2437

11AX20MIMO_Ant1_2462

11AX20MIMO_Ant2_2462

11AX20MIMO_Ant3_2462

11AX20MIMO_Ant4_2462

11AX40MIMO_Ant1_2422

11AX40MIMO_Ant2_2422

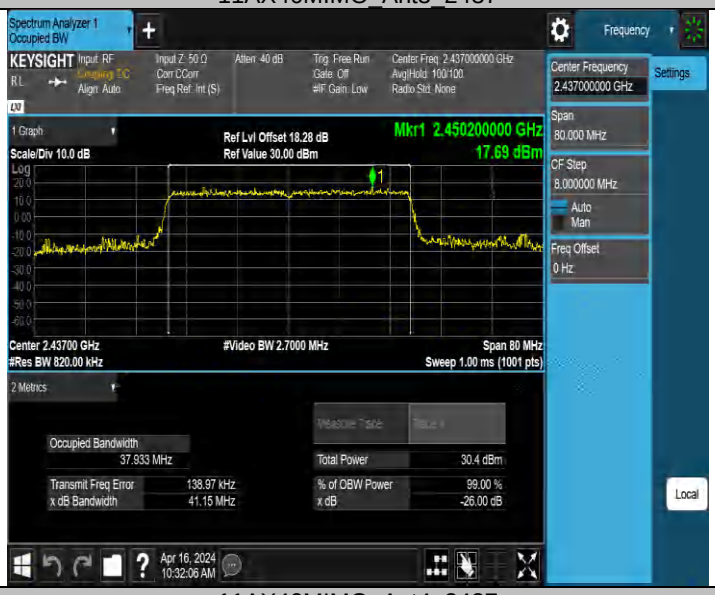
11AX40MIMO_Ant3_2422

11AX40MIMO_Ant4_2422

11AX40MIMO_Ant1_2437

11AX40MIMO_Ant2_2437

11AX40MIMO_Ant3_2437



11AX40MIMO_Ant4_2437

11AX40MIMO_Ant1_2452

11AX40MIMO_Ant2_2452

11AX40MIMO_Ant3_2452

11AX40MIMO_Ant4_2452

11BE20MIMO_Ant1_2412

11BE20MIMO_Ant2_2412

11BE20MIMO_Ant3_2412

11BE20MIMO_Ant4_2412

11BE20MIMO_Ant1_2437

11BE20MIMO_Ant2_2437

11BE20MIMO_Ant3_2437

11BE20MIMO_Ant4_2437

11BE20MIMO_Ant1_2462

11BE20MIMO_Ant2_2462

11BE20MIMO_Ant3_2462

11BE20MIMO_Ant4_2462

11BE40MIMO_Ant1_2422

11BE40MIMO_Ant2_2422

11BE40MIMO_Ant3_2422

11BE40MIMO_Ant4_2422

11BE40MIMO_Ant1_2437

11BE40MIMO_Ant2_2437

11BE40MIMO_Ant3_2437

11BE40MIMO_Ant4_2437

11BE40MIMO_Ant1_2452

11BE40MIMO_Ant2_2452

11BE40MIMO_Ant3_2452

11BE40MIMO_Ant4_2452

Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

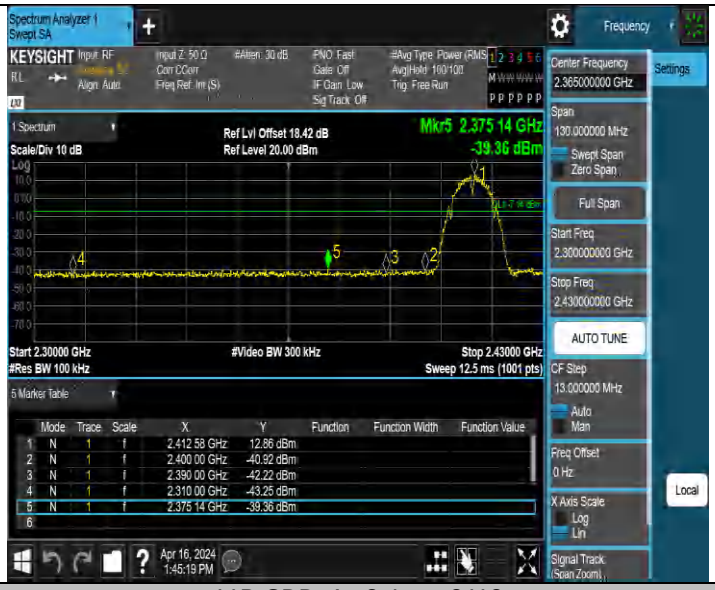
Both Full RU and Partial RU tested for 802.11 be/ax, only the worst-case reported.

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	11.28	-40.63	≤-8.72	PASS
	Ant2	Low	2412	12.87	-39.36	≤-7.14	PASS
	Ant3	Low	2412	11.51	-37.07	≤-8.49	PASS
	Ant4	Low	2412	11.47	-39.36	≤-8.53	PASS
	Ant1	High	2462	11.11	-39.06	≤-8.9	PASS
	Ant2	High	2462	12.56	-39.5	≤-7.44	PASS
	Ant3	High	2462	8.73	-38.72	≤-11.27	PASS
	Ant4	High	2462	12.02	-39.5	≤-7.98	PASS
11G-CDD	Ant1	Low	2412	4.39	-37.82	≤-15.61	PASS
	Ant2	Low	2412	5.30	-39.12	≤-14.7	PASS
	Ant3	Low	2412	2.67	-40.05	≤-17.34	PASS
	Ant4	Low	2412	4.50	-39.62	≤-15.5	PASS
	Ant1	High	2462	4.47	-39.49	≤-15.53	PASS
	Ant2	High	2462	4.54	-39.39	≤-15.46	PASS
	Ant3	High	2462	4.65	-39.52	≤-15.35	PASS
	Ant4	High	2462	4.16	-39.8	≤-15.84	PASS
11N20MIMO	Ant1	Low	2412	4.57	-39.22	≤-15.43	PASS
	Ant2	Low	2412	4.92	-37.48	≤-15.08	PASS
	Ant3	Low	2412	4.72	-39.8	≤-15.28	PASS
	Ant4	Low	2412	4.08	-38.3	≤-15.92	PASS
	Ant1	High	2462	4.63	-39.4	≤-15.38	PASS
	Ant2	High	2462	4.47	-39.49	≤-15.53	PASS
	Ant3	High	2462	4.40	-39.52	≤-15.6	PASS
	Ant4	High	2462	3.94	-38.91	≤-16.06	PASS
11N40MIMO	Ant1	Low	2422	1.21	-36.3	≤-18.79	PASS
	Ant2	Low	2422	1.61	-35.93	≤-18.39	PASS
	Ant3	Low	2422	1.51	-36.13	≤-18.49	PASS
	Ant4	Low	2422	0.85	-34.25	≤-19.15	PASS
	Ant1	High	2452	0.79	-39.48	≤-19.21	PASS
	Ant2	High	2452	1.19	-40.1	≤-18.81	PASS
	Ant3	High	2452	1.00	-39.98	≤-19	PASS
	Ant4	High	2452	0.61	-40.12	≤-19.39	PASS
11AC20MIMO	Ant1	Low	2412	3.97	-39.26	≤-16.03	PASS
	Ant2	Low	2412	4.74	-38.35	≤-15.26	PASS
	Ant3	Low	2412	4.45	-38.65	≤-15.55	PASS
	Ant4	Low	2412	4.10	-38.95	≤-15.9	PASS
	Ant1	High	2462	4.38	-40.82	≤-15.62	PASS
	Ant2	High	2462	4.62	-39.6	≤-15.38	PASS
	Ant3	High	2462	4.36	-39.51	≤-15.64	PASS
	Ant4	High	2462	3.72	-40.03	≤-16.28	PASS
11AC40MIMO	Ant1	Low	2422	1.02	-36.11	≤-18.98	PASS
	Ant2	Low	2422	1.39	-35.25	≤-18.62	PASS
	Ant3	Low	2422	1.14	-35.42	≤-18.86	PASS
	Ant4	Low	2422	0.66	-35.01	≤-19.34	PASS
	Ant1	High	2452	1.36	-40.08	≤-18.65	PASS
	Ant2	High	2452	1.37	-40.24	≤-18.63	PASS
	Ant3	High	2452	1.23	-40.2	≤-18.77	PASS
	Ant4	High	2452	1.10	-39.5	≤-18.9	PASS
11AX20MIMO	Ant1	Low	2412	2.91	-39.06	≤-17.09	PASS
	Ant2	Low	2412	3.84	-39.61	≤-16.16	PASS
	Ant3	Low	2412	3.71	-38.81	≤-16.29	PASS
	Ant4	Low	2412	3.19	-37.29	≤-16.81	PASS
	Ant1	High	2462	3.20	-40.62	≤-16.8	PASS
	Ant2	High	2462	3.58	-40.59	≤-16.42	PASS

	Ant3	High	2462	3.57	-39.43	≤-16.43	PASS
	Ant4	High	2462	2.67	-40.03	≤-17.34	PASS
11AX40MIMO	Ant1	Low	2422	0.33	-36.26	≤-19.67	PASS
	Ant2	Low	2422	0.45	-34.56	≤-19.55	PASS
	Ant3	Low	2422	-0.11	-34.8	≤-20.11	PASS
	Ant4	Low	2422	-0.41	-35.33	≤-20.41	PASS
	Ant1	High	2452	-0.08	-39.88	≤-20.08	PASS
	Ant2	High	2452	0.44	-40.19	≤-19.56	PASS
	Ant3	High	2452	0.22	-39.55	≤-19.78	PASS
	Ant4	High	2452	-0.28	-40.52	≤-20.28	PASS
11BE20MIMO	Ant1	Low	2412	3.54	-38.25	≤-16.46	PASS
	Ant2	Low	2412	4.02	-38.2	≤-15.98	PASS
	Ant3	Low	2412	3.85	-38.21	≤-16.15	PASS
	Ant4	Low	2412	2.89	-39.71	≤-17.11	PASS
	Ant1	High	2462	3.10	-39.9	≤-16.9	PASS
	Ant2	High	2462	3.45	-40.35	≤-16.56	PASS
	Ant3	High	2462	3.01	-39.84	≤-16.99	PASS
	Ant4	High	2462	3.08	-39.8	≤-16.92	PASS
11BE40MIMO	Ant1	Low	2422	0.21	-35.45	≤-19.79	PASS
	Ant2	Low	2422	0.35	-33.8	≤-19.65	PASS
	Ant3	Low	2422	0.14	-36.13	≤-19.86	PASS
	Ant4	Low	2422	-0.83	-35.75	≤-20.83	PASS
	Ant1	High	2452	0.04	-39.53	≤-19.96	PASS
	Ant2	High	2452	0.49	-40.24	≤-19.51	PASS
	Ant3	High	2452	-0.17	-40.59	≤-20.17	PASS
	Ant4	High	2452	-0.33	-39.83	≤-20.33	PASS

11B-CDD_Ant1_Low_2412

11B-CDD_Ant2_Low_2412



11B-CDD_Ant3_Low_2412

11B-CDD_Ant4_Low_2412

11B-CDD_Ant1_High_2462

11B-CDD_Ant2_High_2462

11B-CDD_Ant3_High_2462

11B-CDD_Ant4_High_2462

11G-CDD_Ant1_Low_2412

11G-CDD_Ant2_Low_2412

11G-CDD_Ant3_Low_2412

11G-CDD_Ant4_Low_2412

11G-CDD_Ant1_High_2462

11G-CDD_Ant2_High_2462

11G-CDD_Ant3_High_2462

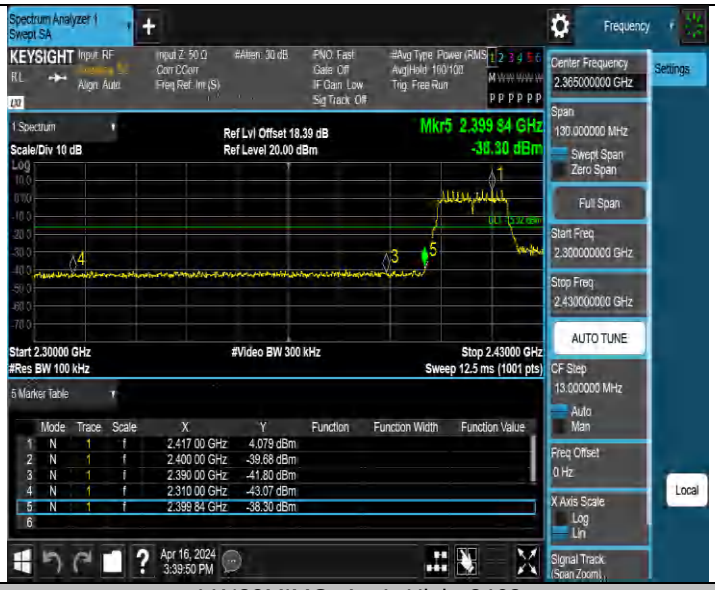
11G-CDD_Ant4_High_2462

11N20MIMO_Ant1_Low_2412

11N20MIMO_Ant2_Low_2412

11N20MIMO_Ant3_Low_2412

11N20MIMO_Ant4_Low_2412



11N20MIMO_Ant1_High_2462

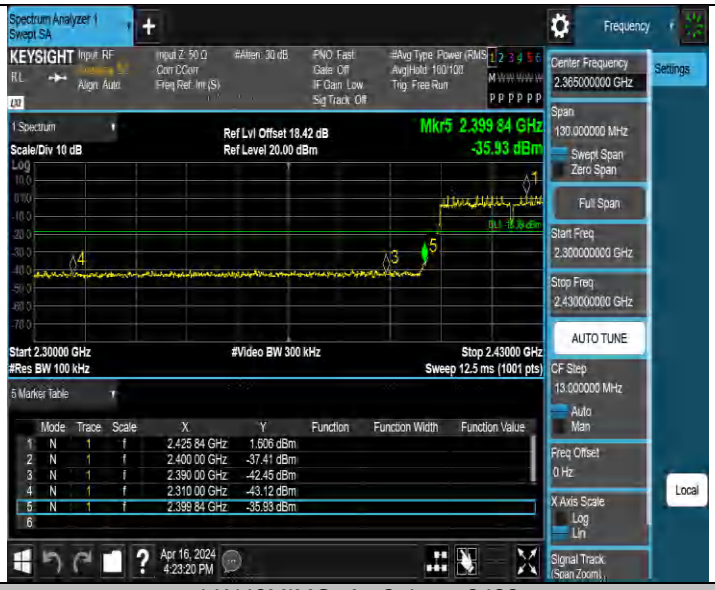
11N20MIMO_Ant2_High_2462

11N20MIMO_Ant3_High_2462

11N20MIMO_Ant4_High_2462

11N40MIMO_Ant1_Low_2422

11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant3_Low_2422

11N40MIMO_Ant4_Low_2422

11N40MIMO_Ant1_High_2452

11N40MIMO_Ant2_High_2452

11N40MIMO_Ant3_High_2452

11N40MIMO_Ant4_High_2452

11AC20MIMO_Ant1_Low_2412

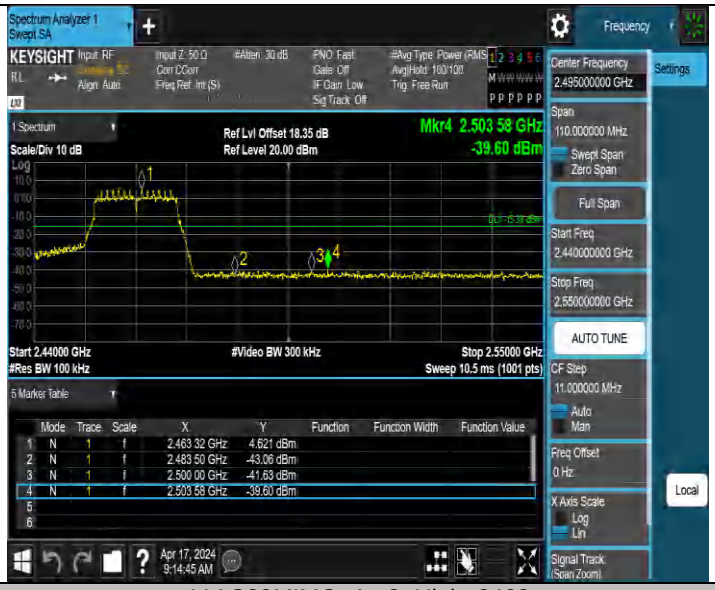
11AC20MIMO_Ant2_Low_2412

11AC20MIMO_Ant3_Low_2412

11AC20MIMO_Ant4_Low_2412

11AC20MIMO_Ant1_High_2462

11AC20MIMO_Ant2_High_2462



11AC20MIMO_Ant3_High_2462

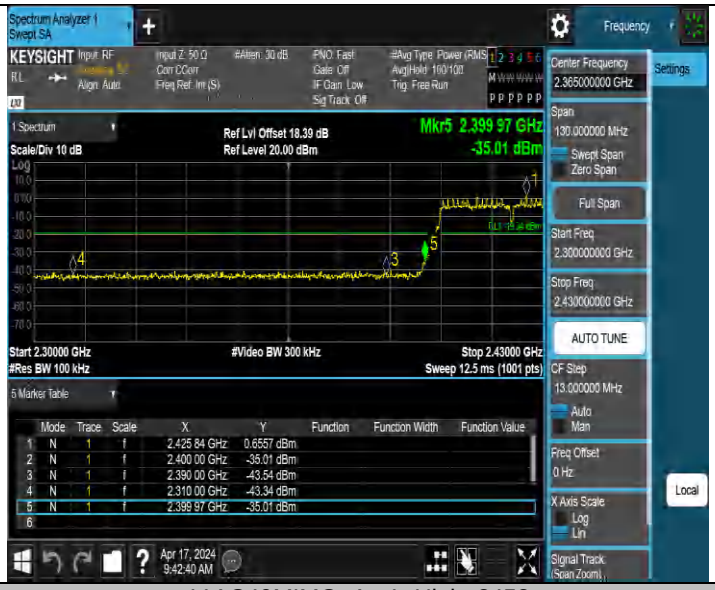
11AC20MIMO_Ant4_High_2462

11AC40MIMO_Ant1_Low_2422

11AC40MIMO_Ant2_Low_2422

11AC40MIMO_Ant3_Low_2422

11AC40MIMO_Ant4_Low_2422



11AC40MIMO_Ant1_High_2452

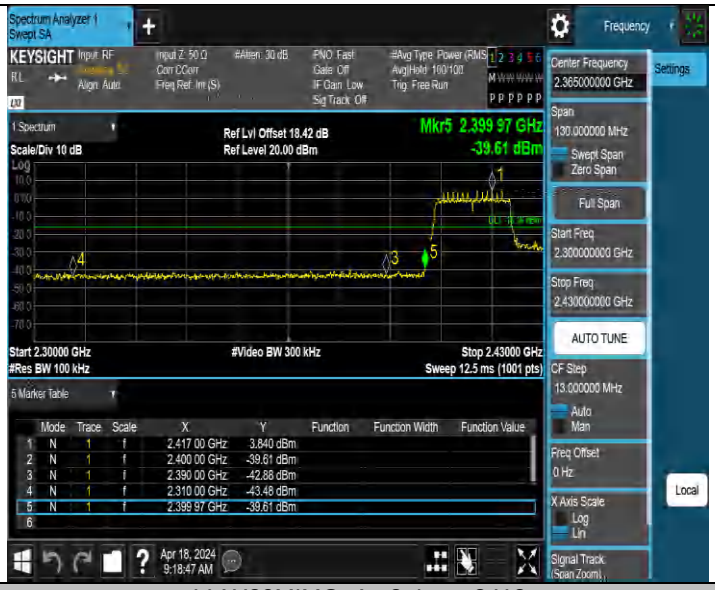
11AC40MIMO_Ant2_High_2452

11AC40MIMO_Ant3_High_2452

11AC40MIMO_Ant4_High_2452

11AX20MIMO_Ant1_Low_2412

11AX20MIMO_Ant2_Low_2412



11AX20MIMO_Ant3_Low_2412

11AX20MIMO_Ant4_Low_2412

11AX20MIMO_Ant1_High_2462

11AX20MIMO_Ant2_High_2462

11AX20MIMO_Ant3_High_2462

11AX20MIMO_Ant4_High_2462

11AX40MIMO_Ant1_Low_2422

11AX40MIMO_Ant2_Low_2422

11AX40MIMO_Ant3_Low_2422

11AX40MIMO_Ant4_Low_2422

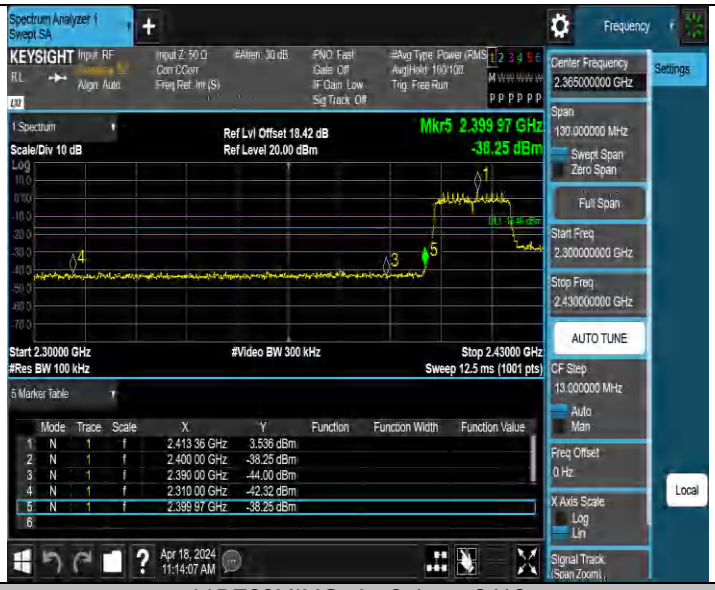
11AX40MIMO_Ant1_High_2452

11AX40MIMO_Ant2_High_2452

11AX40MIMO_Ant3_High_2452

11AX40MIMO_Ant4_High_2452

11BE20MIMO_Ant1_Low_2412



11BE20MIMO_Ant2_Low_2412

11BE20MIMO_Ant3_Low_2412

11BE20MIMO_Ant4_Low_2412

11BE20MIMO_Ant1_High_2462

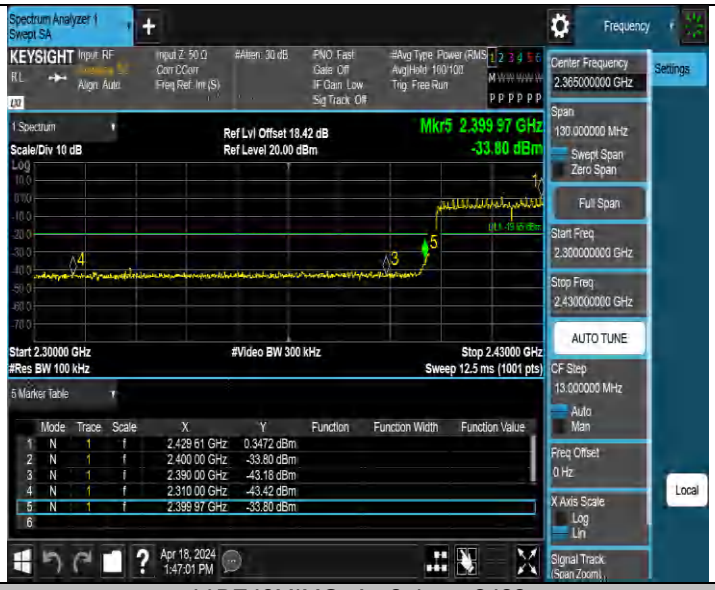
11BE20MIMO_Ant2_High_2462

11BE20MIMO_Ant3_High_2462

11BE20MIMO_Ant4_High_2462

11BE40MIMO_Ant1_Low_2422

11BE40MIMO_Ant2_Low_2422



11BE40MIMO_Ant3_Low_2422

11BE40MIMO_Ant4_Low_2422

11BE40MIMO_Ant1_High_2452

11BE40MIMO_Ant2_High_2452

11BE40MIMO_Ant3_High_2452

11BE40MIMO_Ant4_High_2452

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
#NO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 18.36 dB
Ref Level 20.00 dBm
Mkr4 2.510 51 GHz
-39.83 dBm
Start 2.44000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 2.55000 GHz
Sweep 10.5 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.443 30 GHz -0.3286 dBm
2 N 1 f 2.483 50 GHz -43.53 dBm
3 N 1 f 2.500 00 GHz -43.41 dBm
4 N 1 f 2.510 51 GHz -39.83 dBm
Apr 18, 2024
2:38:25 PM
Frequency
Settings
Center Frequency
2.495000000 GHz
Span
110.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
2.440000000 GHz
Stop Freq
2.550000000 GHz
AUTO TUNE
CF Step
11.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	Reference	12.85	12.85	---	PASS
			30~1000	12.85	-41.3	≤-7.15	PASS
			1000~26500	12.85	-31.73	≤-7.15	PASS
	Ant2	2412	Reference	10.48	10.48	---	PASS
			30~1000	10.48	-41.28	≤-9.52	PASS
			1000~26500	10.48	-32.26	≤-9.52	PASS
	Ant3	2412	Reference	9.91	9.91	---	PASS
			30~1000	9.91	-40.56	≤-10.09	PASS
			1000~26500	9.91	-32.2	≤-10.09	PASS
	Ant4	2412	Reference	12.22	12.22	---	PASS
			30~1000	12.22	-41.32	≤-7.78	PASS
			1000~26500	12.22	-32.07	≤-7.78	PASS
	Ant1	2437	Reference	11.05	11.05	---	PASS
			30~1000	11.05	-41.44	≤-8.95	PASS
			1000~26500	11.05	-31.88	≤-8.95	PASS
	Ant2	2437	Reference	11.12	11.12	---	PASS
			30~1000	11.12	-40.76	≤-8.88	PASS
			1000~26500	11.12	-32.42	≤-8.88	PASS
	Ant3	2437	Reference	9.79	9.79	---	PASS
			30~1000	9.79	-41.62	≤-10.21	PASS
			1000~26500	9.79	-32.25	≤-10.21	PASS
	Ant4	2437	Reference	10.94	10.94	---	PASS
			30~1000	10.94	-41.54	≤-9.06	PASS
			1000~26500	10.94	-31.97	≤-9.06	PASS
	Ant1	2462	Reference	11.24	11.24	---	PASS
			30~1000	11.24	-41.5	≤-8.76	PASS
			1000~26500	11.24	-32.62	≤-8.76	PASS
	Ant2	2462	Reference	11.78	11.78	---	PASS
			30~1000	11.78	-40.82	≤-8.22	PASS
			1000~26500	11.78	-32.37	≤-8.22	PASS
	Ant3	2462	Reference	7.97	7.97	---	PASS
			30~1000	7.97	-41.8	≤-12.03	PASS
			1000~26500	7.97	-32.39	≤-12.03	PASS
	Ant4	2462	Reference	10.61	10.61	---	PASS
			30~1000	10.61	-41.06	≤-9.39	PASS
			1000~26500	10.61	-32.56	≤-9.39	PASS
11G-CDD	Ant1	2412	Reference	3.85	3.85	---	PASS
			30~1000	3.85	-40.62	≤-16.15	PASS
			1000~26500	3.85	-31.97	≤-16.15	PASS
	Ant2	2412	Reference	4.73	4.73	---	PASS
			30~1000	4.73	-40.44	≤-15.27	PASS
			1000~26500	4.73	-32.69	≤-15.27	PASS
	Ant3	2412	Reference	2.47	2.47	---	PASS
			30~1000	2.47	-40.15	≤-17.53	PASS
			1000~26500	2.47	-32.16	≤-17.53	PASS
	Ant4	2412	Reference	4.30	4.30	---	PASS
			30~1000	4.30	-40.93	≤-15.7	PASS
			1000~26500	4.30	-32.52	≤-15.7	PASS
	Ant1	2437	Reference	3.94	3.94	---	PASS
			30~1000	3.94	-41.07	≤-16.06	PASS
			1000~26500	3.94	-32.52	≤-16.06	PASS
	Ant2	2437	Reference	4.42	4.42	---	PASS
			30~1000	4.42	-41.06	≤-15.58	PASS
			1000~26500	4.42	-32.86	≤-15.58	PASS
	Ant3	2437	Reference	4.70	4.70	---	PASS
			30~1000	4.70	-41.33	≤-15.3	PASS
			1000~26500	4.70	-33.15	≤-15.3	PASS
	Ant4	2437	Reference	3.66	3.66	---	PASS
			30~1000	3.66	-41.33	≤-16.34	PASS

			1000~26500	3.66	-32.38	≤-16.34	PASS
	Ant1	2462	Reference	4.68	4.68	---	PASS
			30~1000	4.68	-41.33	≤-15.32	PASS
			1000~26500	4.68	-31.07	≤-15.32	PASS
	Ant2	2462	Reference	4.52	4.52	---	PASS
			30~1000	4.52	-41.82	≤-15.48	PASS
			1000~26500	4.52	-33.02	≤-15.48	PASS
	Ant3	2462	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-41.44	≤-15.83	PASS
			1000~26500	4.17	-32.55	≤-15.83	PASS
	Ant4	2462	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-41.53	≤-16.41	PASS
			1000~26500	3.59	-32.86	≤-16.41	PASS
11N20MIMO	Ant1	2412	Reference	4.36	4.36	---	PASS
			30~1000	4.36	-41.4	≤-15.64	PASS
			1000~26500	4.36	-32.52	≤-15.64	PASS
	Ant2	2412	Reference	4.62	4.62	---	PASS
			30~1000	4.62	-40.72	≤-15.38	PASS
			1000~26500	4.62	-32.58	≤-15.38	PASS
	Ant3	2412	Reference	4.28	4.28	---	PASS
			30~1000	4.28	-41.28	≤-15.72	PASS
			1000~26500	4.28	-33.18	≤-15.72	PASS
	Ant4	2412	Reference	4.01	4.01	---	PASS
			30~1000	4.01	-41.08	≤-15.99	PASS
			1000~26500	4.01	-32.49	≤-15.99	PASS
	Ant1	2437	Reference	4.41	4.41	---	PASS
			30~1000	4.41	-40.9	≤-15.59	PASS
			1000~26500	4.41	-31.93	≤-15.59	PASS
	Ant2	2437	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-41.3	≤-15.9	PASS
			1000~26500	4.10	-32.79	≤-15.9	PASS
	Ant3	2437	Reference	4.00	4.00	---	PASS
			30~1000	4.00	-41.28	≤-16	PASS
			1000~26500	4.00	-32.42	≤-16	PASS
	Ant4	2437	Reference	4.01	4.01	---	PASS
			30~1000	4.01	-41.06	≤-15.99	PASS
			1000~26500	4.01	-32.56	≤-15.99	PASS
	Ant1	2462	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-40.84	≤-15.81	PASS
			1000~26500	4.19	-32	≤-15.81	PASS
	Ant2	2462	Reference	4.33	4.33	---	PASS
			30~1000	4.33	-41.73	≤-15.67	PASS
			1000~26500	4.33	-32.73	≤-15.67	PASS
	Ant3	2462	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-41.18	≤-15.85	PASS
			1000~26500	4.15	-32.94	≤-15.85	PASS
	Ant4	2462	Reference	4.01	4.01	---	PASS
			30~1000	4.01	-40.66	≤-15.99	PASS
			1000~26500	4.01	-32.09	≤-15.99	PASS
11N40MIMO	Ant1	2422	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-41.25	≤-18.76	PASS
			1000~26500	1.24	-32.55	≤-18.76	PASS
	Ant2	2422	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-41.11	≤-18.77	PASS
			1000~26500	1.23	-32.29	≤-18.77	PASS
	Ant3	2422	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-41.09	≤-18.82	PASS
			1000~26500	1.18	-32.69	≤-18.82	PASS
	Ant4	2422	Reference	0.11	0.11	---	PASS
			30~1000	0.11	-40.98	≤-19.89	PASS
			1000~26500	0.11	-32.13	≤-19.89	PASS
	Ant1	2437	Reference	0.86	0.86	---	PASS
			30~1000	0.86	-40.02	≤-19.14	PASS

			1000~26500	0.86	-32.27	≤-19.14	PASS
	Ant2	2437	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-40.5	≤-18.27	PASS
			1000~26500	1.73	-31.98	≤-18.27	PASS
	Ant3	2437	Reference	0.78	0.78	---	PASS
			30~1000	0.78	-41.48	≤-19.22	PASS
			1000~26500	0.78	-31.62	≤-19.22	PASS
	Ant4	2437	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-41.7	≤-19.54	PASS
			1000~26500	0.46	-32.5	≤-19.54	PASS
	Ant1	2452	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-41.65	≤-19.29	PASS
			1000~26500	0.71	-31.94	≤-19.29	PASS
	Ant2	2452	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-40.91	≤-19.3	PASS
			1000~26500	0.70	-33.12	≤-19.3	PASS
	Ant3	2452	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-41.59	≤-18.99	PASS
			1000~26500	1.01	-32.39	≤-18.99	PASS
	Ant4	2452	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-40.86	≤-20.21	PASS
			1000~26500	-0.21	-32.53	≤-20.21	PASS
11AC20MIMO	Ant1	2412	Reference	4.09	4.09	---	PASS
			30~1000	4.09	-41.38	≤-15.91	PASS
			1000~26500	4.09	-32.5	≤-15.91	PASS
	Ant2	2412	Reference	4.66	4.66	---	PASS
			30~1000	4.66	-41.47	≤-15.34	PASS
			1000~26500	4.66	-31.77	≤-15.34	PASS
	Ant3	2412	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-41.65	≤-15.86	PASS
			1000~26500	4.14	-32.77	≤-15.86	PASS
	Ant4	2412	Reference	3.79	3.79	---	PASS
			30~1000	3.79	-41.76	≤-16.21	PASS
			1000~26500	3.79	-32.5	≤-16.21	PASS
	Ant1	2437	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-41.94	≤-16.1	PASS
			1000~26500	3.90	-32.16	≤-16.1	PASS
	Ant2	2437	Reference	4.46	4.46	---	PASS
			30~1000	4.46	-41.57	≤-15.54	PASS
			1000~26500	4.46	-32.57	≤-15.54	PASS
	Ant3	2437	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-42.14	≤-16.16	PASS
			1000~26500	3.84	-32.36	≤-16.16	PASS
	Ant4	2437	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-41.95	≤-16.19	PASS
			1000~26500	3.81	-32.77	≤-16.19	PASS
	Ant1	2462	Reference	4.02	4.02	---	PASS
			30~1000	4.02	-41.55	≤-15.98	PASS
			1000~26500	4.02	-32.58	≤-15.98	PASS
	Ant2	2462	Reference	4.37	4.37	---	PASS
			30~1000	4.37	-41.43	≤-15.63	PASS
			1000~26500	4.37	-32.93	≤-15.63	PASS
	Ant3	2462	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-41.24	≤-15.73	PASS
			1000~26500	4.27	-32.57	≤-15.73	PASS
	Ant4	2462	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-41.27	≤-16.41	PASS
			1000~26500	3.59	-32.58	≤-16.41	PASS
11AC40MIMO	Ant1	2422	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-41.08	≤-18.73	PASS
			1000~26500	1.27	-32.58	≤-18.73	PASS
	Ant2	2422	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-41.7	≤-18.94	PASS

			1000~26500	1.06	-32.09	≤-18.94	PASS
	Ant3	2422	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-41.56	≤-18.77	PASS
			1000~26500	1.23	-32.53	≤-18.77	PASS
	Ant4	2422	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-40.94	≤-19.49	PASS
			1000~26500	0.51	-32.35	≤-19.49	PASS
	Ant1	2437	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-41.11	≤-18.93	PASS
			1000~26500	1.07	-32.74	≤-18.93	PASS
	Ant2	2437	Reference	1.45	1.45	---	PASS
			30~1000	1.45	-41.52	≤-18.55	PASS
			1000~26500	1.45	-32.66	≤-18.55	PASS
	Ant3	2437	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-40.57	≤-19.08	PASS
			1000~26500	0.92	-32.62	≤-19.08	PASS
	Ant4	2437	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-41.25	≤-19.24	PASS
			1000~26500	0.76	-32.44	≤-19.24	PASS
	Ant1	2452	Reference	1.00	1.00	---	PASS
			30~1000	1.00	-41.47	≤-19	PASS
			1000~26500	1.00	-32.87	≤-19	PASS
	Ant2	2452	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-41.09	≤-18.99	PASS
			1000~26500	1.01	-32.93	≤-18.99	PASS
	Ant3	2452	Reference	0.58	0.58	---	PASS
			30~1000	0.58	-41.91	≤-19.42	PASS
			1000~26500	0.58	-32.9	≤-19.42	PASS
	Ant4	2452	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-41.04	≤-19.05	PASS
			1000~26500	0.95	-32.5	≤-19.05	PASS
11AX20MIMO	Ant1	2412	Reference	2.85	2.85	---	PASS
			30~1000	2.85	-41.78	≤-17.15	PASS
			1000~26500	2.85	-32.55	≤-17.15	PASS
	Ant2	2412	Reference	3.14	3.14	---	PASS
			30~1000	3.14	-42.37	≤-16.86	PASS
			1000~26500	3.14	-32.87	≤-16.86	PASS
	Ant3	2412	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-41.98	≤-17.42	PASS
			1000~26500	2.58	-32.74	≤-17.42	PASS
	Ant4	2412	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-40.89	≤-16.77	PASS
			1000~26500	3.23	-32.81	≤-16.77	PASS
	Ant1	2437	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-40.96	≤-16.84	PASS
			1000~26500	3.16	-32.59	≤-16.84	PASS
	Ant2	2437	Reference	3.07	3.07	---	PASS
			30~1000	3.07	-42.58	≤-16.93	PASS
			1000~26500	3.07	-32.71	≤-16.93	PASS
	Ant3	2437	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-41.87	≤-17.46	PASS
			1000~26500	2.54	-32.84	≤-17.46	PASS
	Ant4	2437	Reference	2.35	2.35	---	PASS
			30~1000	2.35	-42.39	≤-17.65	PASS
			1000~26500	2.35	-32.44	≤-17.65	PASS
	Ant1	2462	Reference	2.49	2.49	---	PASS
			30~1000	2.49	-41.55	≤-17.51	PASS
			1000~26500	2.49	-32.51	≤-17.51	PASS
	Ant2	2462	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-41.59	≤-16.8	PASS
			1000~26500	3.20	-32.52	≤-16.8	PASS
	Ant3	2462	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-41.14	≤-17.42	PASS

			1000~26500	2.58	-32.54	≤-17.42	PASS
	Ant4	2462	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-41.27	≤-17.85	PASS
			1000~26500	2.15	-32.52	≤-17.85	PASS
11AX40MIMO	Ant1	2422	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-41.33	≤-20.54	PASS
			1000~26500	-0.54	-32.44	≤-20.54	PASS
	Ant2	2422	Reference	0.23	0.23	---	PASS
			30~1000	0.23	-41.87	≤-19.77	PASS
			1000~26500	0.23	-33.02	≤-19.77	PASS
	Ant3	2422	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-41.42	≤-20.05	PASS
			1000~26500	-0.05	-33	≤-20.05	PASS
	Ant4	2422	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-41.5	≤-20.7	PASS
			1000~26500	-0.70	-31.92	≤-20.7	PASS
	Ant1	2437	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-41.09	≤-20.2	PASS
			1000~26500	-0.20	-31.86	≤-20.2	PASS
	Ant2	2437	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-41.35	≤-19.94	PASS
			1000~26500	0.06	-32.58	≤-19.94	PASS
	Ant3	2437	Reference	-0.64	-0.64	---	PASS
			30~1000	-0.64	-41.88	≤-20.64	PASS
			1000~26500	-0.64	-32.5	≤-20.64	PASS
	Ant4	2437	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-42.04	≤-20.53	PASS
			1000~26500	-0.53	-32.47	≤-20.53	PASS
	Ant1	2452	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-42.22	≤-19.99	PASS
			1000~26500	0.01	-32.74	≤-19.99	PASS
	Ant2	2452	Reference	0.39	0.39	---	PASS
			30~1000	0.39	-42.22	≤-19.61	PASS
			1000~26500	0.39	-32.76	≤-19.61	PASS
	Ant3	2452	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-42.03	≤-20.17	PASS
			1000~26500	-0.17	-31.3	≤-20.17	PASS
	Ant4	2452	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-41.7	≤-20.58	PASS
			1000~26500	-0.58	-32.62	≤-20.58	PASS
11BE20MIMO	Ant1	2412	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-41.33	≤-18.82	PASS
			1000~26500	1.18	-32.57	≤-18.82	PASS
	Ant2	2412	Reference	3.71	3.71	---	PASS
			30~1000	3.71	-41.3	≤-16.29	PASS
			1000~26500	3.71	-32.29	≤-16.29	PASS
	Ant3	2412	Reference	3.56	3.56	---	PASS
			30~1000	3.56	-42.05	≤-16.44	PASS
			1000~26500	3.56	-32.42	≤-16.44	PASS
	Ant4	2412	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-42.41	≤-17.34	PASS
			1000~26500	2.66	-32.41	≤-17.34	PASS
	Ant1	2437	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-42.22	≤-16.77	PASS
			1000~26500	3.23	-32.28	≤-16.77	PASS
	Ant2	2437	Reference	3.63	3.63	---	PASS
			30~1000	3.63	-41.97	≤-16.37	PASS
			1000~26500	3.63	-32.09	≤-16.37	PASS
	Ant3	2437	Reference	2.99	2.99	---	PASS
			30~1000	2.99	-42.42	≤-17.01	PASS
			1000~26500	2.99	-32.36	≤-17.01	PASS
	Ant4	2437	Reference	2.32	2.32	---	PASS
			30~1000	2.32	-41.29	≤-17.68	PASS

			1000~26500	2.32	-31.86	≤-17.68	PASS
	Ant1	2462	Reference	3.17	3.17	---	PASS
			30~1000	3.17	-41.66	≤-16.83	PASS
			1000~26500	3.17	-32.09	≤-16.83	PASS
	Ant2	2462	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-41.54	≤-17.36	PASS
			1000~26500	2.64	-31.69	≤-17.36	PASS
	Ant3	2462	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-41.83	≤-16.8	PASS
			1000~26500	3.20	-31.54	≤-16.8	PASS
	Ant4	2462	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-40.8	≤-17.3	PASS
			1000~26500	2.70	-32.13	≤-17.3	PASS
11BE40MIMO	Ant1	2422	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-41.31	≤-20.78	PASS
			1000~26500	-0.78	-31.63	≤-20.78	PASS
	Ant2	2422	Reference	0.39	0.39	---	PASS
			30~1000	0.39	-40.89	≤-19.61	PASS
			1000~26500	0.39	-32.47	≤-19.61	PASS
	Ant3	2422	Reference	0.60	0.60	---	PASS
			30~1000	0.60	-41.48	≤-19.4	PASS
			1000~26500	0.60	-31.67	≤-19.4	PASS
	Ant4	2422	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-41.64	≤-21.41	PASS
			1000~26500	-1.41	-32.73	≤-21.41	PASS
	Ant1	2437	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-41.09	≤-21.35	PASS
			1000~26500	-1.35	-32.34	≤-21.35	PASS
	Ant2	2437	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-41.11	≤-20.59	PASS
			1000~26500	-0.59	-32.46	≤-20.59	PASS
	Ant3	2437	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-41.25	≤-21.38	PASS
			1000~26500	-1.38	-31.59	≤-21.38	PASS
	Ant4	2437	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-41.8	≤-21.51	PASS
			1000~26500	-1.51	-32.31	≤-21.51	PASS
	Ant1	2452	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-41.22	≤-19.94	PASS
			1000~26500	0.06	-31.98	≤-19.94	PASS
	Ant2	2452	Reference	-0.27	-0.27	---	PASS
			30~1000	-0.27	-40.67	≤-20.27	PASS
			1000~26500	-0.27	-32.62	≤-20.27	PASS
	Ant3	2452	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-41.12	≤-20.55	PASS
			1000~26500	-0.55	-32.84	≤-20.55	PASS
	Ant4	2452	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-41.39	≤-20.56	PASS
			1000~26500	-0.56	-32.57	≤-20.56	PASS

11B-CDD_Ant1_2412_0~Reference

11B-CDD_Ant1_2412_30~1000

11B-CDD_Ant1_2412_1000~26500

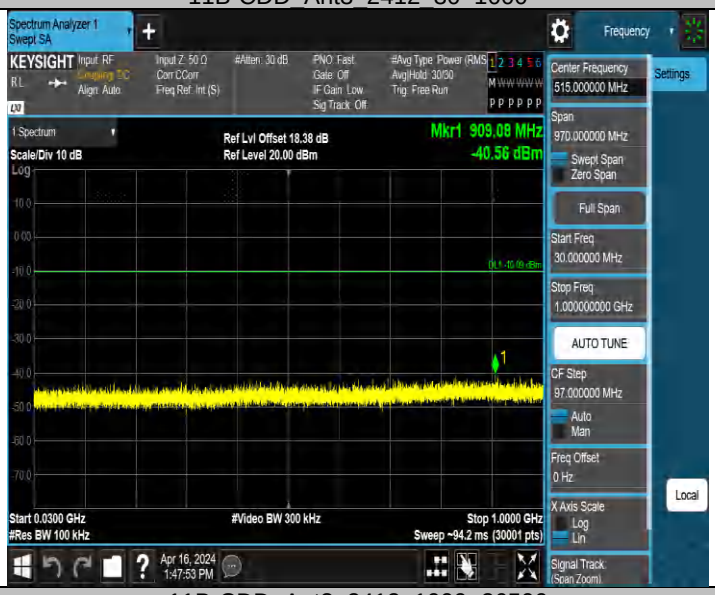
11B-CDD_Ant2_2412_0~Reference

11B-CDD_Ant2_2412_30~1000

11B-CDD_Ant2_2412_1000~26500

11B-CDD_Ant3_2412_0~Reference

11B-CDD_Ant3_2412_30~1000



11B-CDD_Ant3_2412_1000~26500

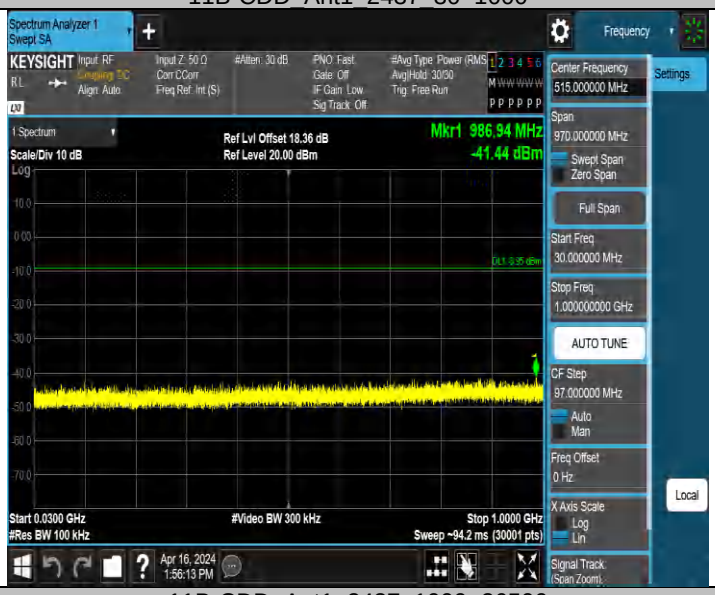
11B-CDD_Ant4_2412_0~Reference

11B-CDD_Ant4_2412_30~1000

11B-CDD_Ant4_2412_1000~26500

11B-CDD_Ant1_2437_0~Reference

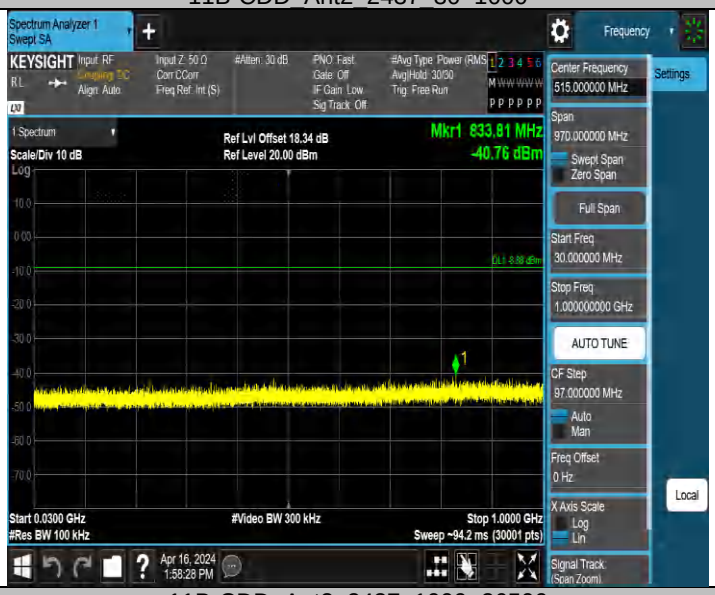
11B-CDD_Ant1_2437_30~1000



11B-CDD_Ant1_2437_1000~26500

11B-CDD_Ant2_2437_0~Reference

11B-CDD_Ant2_2437_30~1000



11B-CDD_Ant2_2437_1000~26500

11B-CDD_Ant3_2437_0~Reference

11B-CDD_Ant3_2437_30~1000

11B-CDD_Ant3_2437_1000~26500

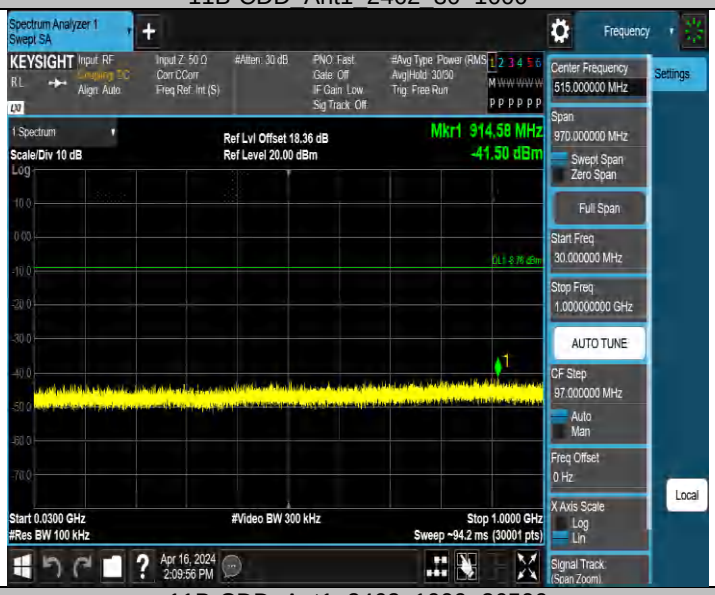
11B-CDD_Ant4_2437_0~Reference

11B-CDD_Ant4_2437_30~1000

11B-CDD_Ant4_2437_1000~26500

11B-CDD_Ant1_2462_0~Reference

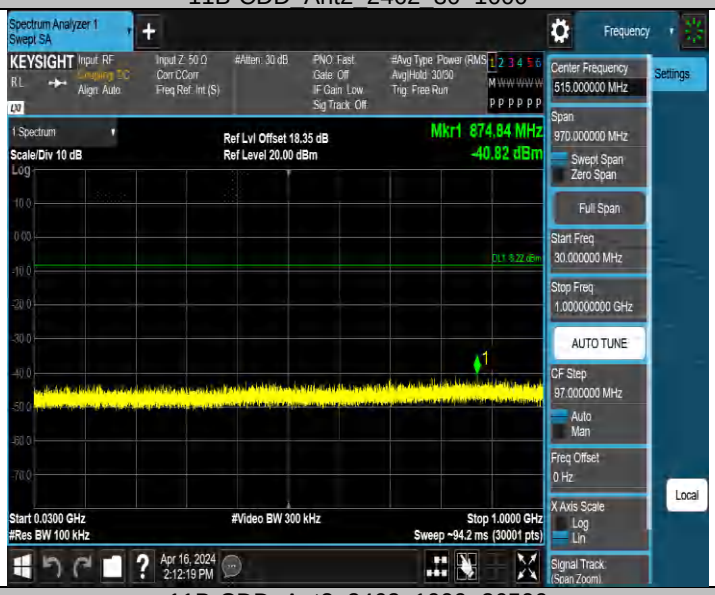
11B-CDD_Ant1_2462_30~1000



11B-CDD_Ant1_2462_1000~26500

11B-CDD_Ant2_2462_0~Reference

11B-CDD_Ant2_2462_30~1000



11B-CDD_Ant2_2462_1000~26500

11B-CDD_Ant3_2462_0~Reference

11B-CDD_Ant3_2462_30~1000

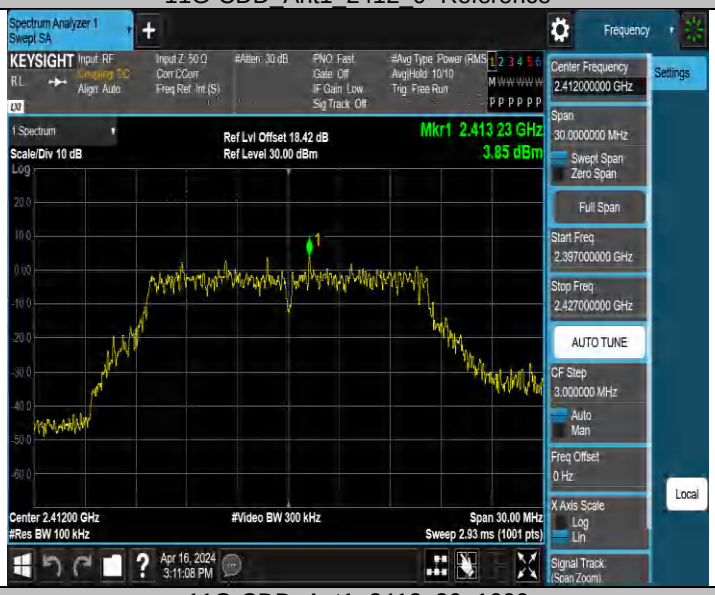
11B-CDD_Ant3_2462_1000~26500

11B-CDD_Ant4_2462_0~Reference

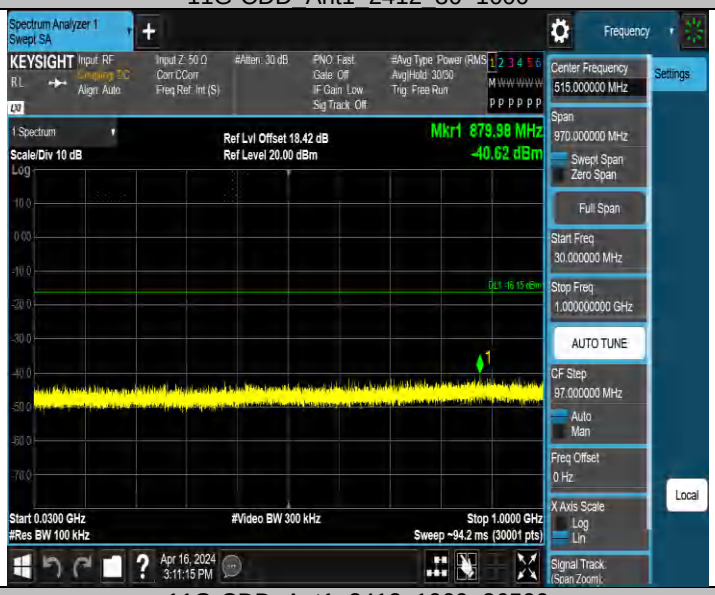
11B-CDD_Ant4_2462_30~1000

11B-CDD_Ant4_2462_1000~26500

11G-CDD_Ant1_2412_0~Reference



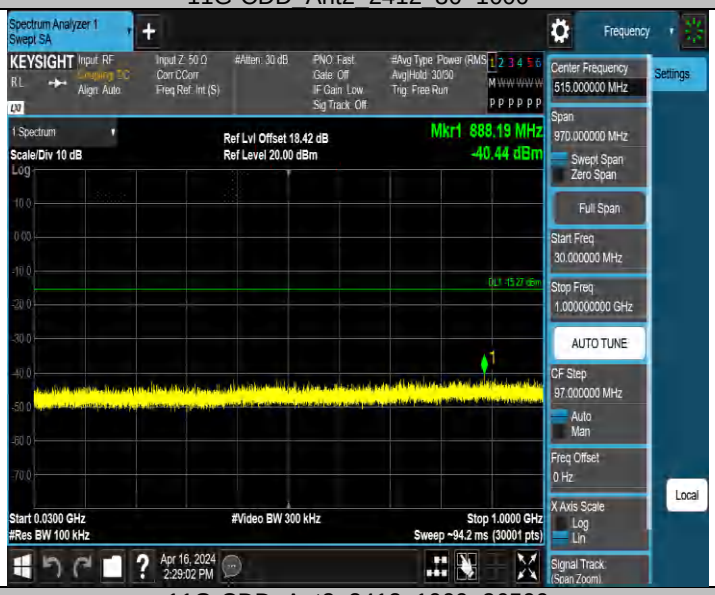
11G-CDD_Ant1_2412_30~1000



11G-CDD_Ant1_2412_1000~26500

11G-CDD_Ant2_2412_0~Reference

11G-CDD_Ant2_2412_30~1000



11G-CDD_Ant2_2412_1000~26500