

Appendix A: Test Results of 2.4GHz SDR

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

2.4GHz SDR, 1.4MHz BW

TestMode	Channel	Antenna	Result[dBm/10kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
1.4M-MIMO	2405.5	Ant1	7.84	2.64	≤8.00	PASS
		Ant2	6.99	1.79	≤8.00	PASS
		Total	10.45	5.25	≤8.00	PASS
	2435.5	Ant1	7.45	2.25	≤8.00	PASS
		Ant2	7.29	2.09	≤8.00	PASS
		Total	10.38	5.18	≤8.00	PASS
	2468.5	Ant1	3.79	-1.41	≤8.00	PASS
		Ant2	2.15	-3.05	≤8.00	PASS
		Total	6.06	0.86	≤8.00	PASS

1.4M-MIMO_Ant1_2403.5



1.4M-MIMO_Ant2_2403.5



1.4M-MIMO_Ant1_2435.5



1.4M-MIMO_Ant2_2435.5



1.4M-MIMO_Ant1_2469.5



1.4M-MIMO_Ant2_2469.5



2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Channel	Antenna	Result[dBm/10kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
1.4MCA-MIMO	2405.5	Ant1	7.87	2.67	≤8.00	PASS
		Ant2	7.86	2.66	≤8.00	PASS
		Total	10.88	5.68	≤8.00	PASS
	2435.5	Ant1	7.68	2.48	≤8.00	PASS
		Ant2	7.89	2.69	≤8.00	PASS
		Total	10.80	5.6	≤8.00	PASS
	2468.5	Ant1	4.42	-0.78	≤8.00	PASS
		Ant2	3.88	-1.32	≤8.00	PASS
		Total	7.17	1.97	≤8.00	PASS

1.4MCA-MIMO_Ant1_2405.12



1.4MCA-MIMO_Ant2_2405.12



1.4MCA-MIMO_Ant1_2437.12



1.4MCA-MIMO_Ant2_2437.12



1.4MCA-MIMO_Ant1_2471.12



1.4MCA-MIMO_Ant2_2471.12



2.4GHz SDR, 3MHz BW

TestMode	Channel	Antenna	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
3M-MIMO	2405.5	Ant1	5.62	≤8.00	PASS
		Ant2	6.83	≤8.00	PASS
		Total	9.27	≤8.00	PASS
	2435.5	Ant1	4.24	≤8.00	PASS
		Ant2	5.90	≤8.00	PASS
		Total	8.16	≤8.00	PASS
	2468.5	Ant1	2.33	≤8.00	PASS
		Ant2	3.01	≤8.00	PASS
		Total	5.69	≤8.00	PASS

3M-MIMO_Ant1_2405.5



3M-MIMO_Ant2_2405.5



3M-MIMO_Ant1_2435.5



3M-MIMO_Ant2_2435.5



3M-MIMO_Ant1_2468.5



3M-MIMO_Ant2_2468.5



2.4GHz SDR, 3MHz BW CA mode

TestMode	Channel	Antenna	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
3MCA-MIMO	2408.2	Ant1	5.94	≤8.00	PASS
		Ant2	4.99	≤8.00	PASS
		Total	8.50	≤8.00	PASS
	2438.2	Ant1	4.81	≤8.00	PASS
		Ant2	4.71	≤8.00	PASS
		Total	7.77	≤8.00	PASS
	2471.2	Ant1	-0.83	≤8.00	PASS
		Ant2	-4.15	≤8.00	PASS
		Total	0.83	≤8.00	PASS

3MCA-MIMO_Ant1_2408.2



3MCA-MIMO_Ant2_2408.2



3MCA-MIMO_Ant1_2438.2



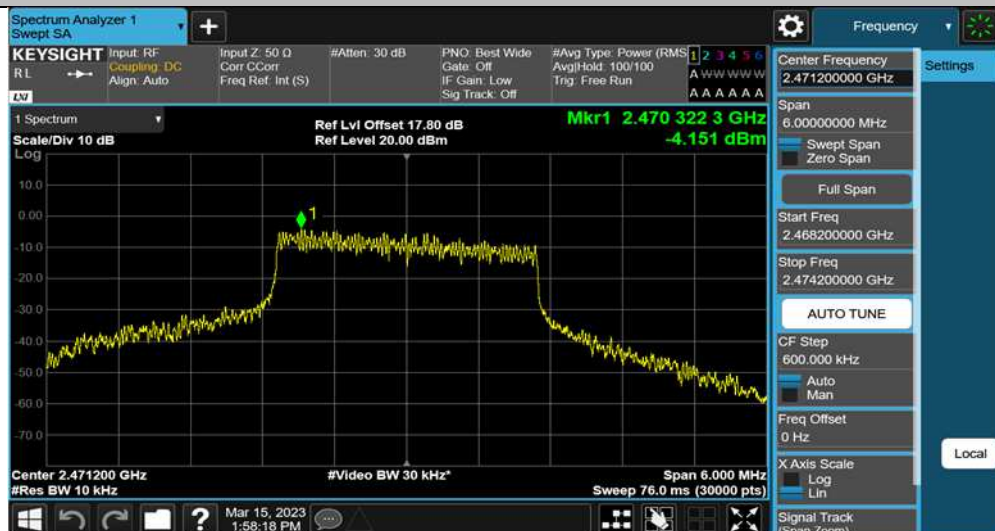
3MCA-MIMO_Ant2_2438.2



3MCA-MIMO_Ant1_2471.2



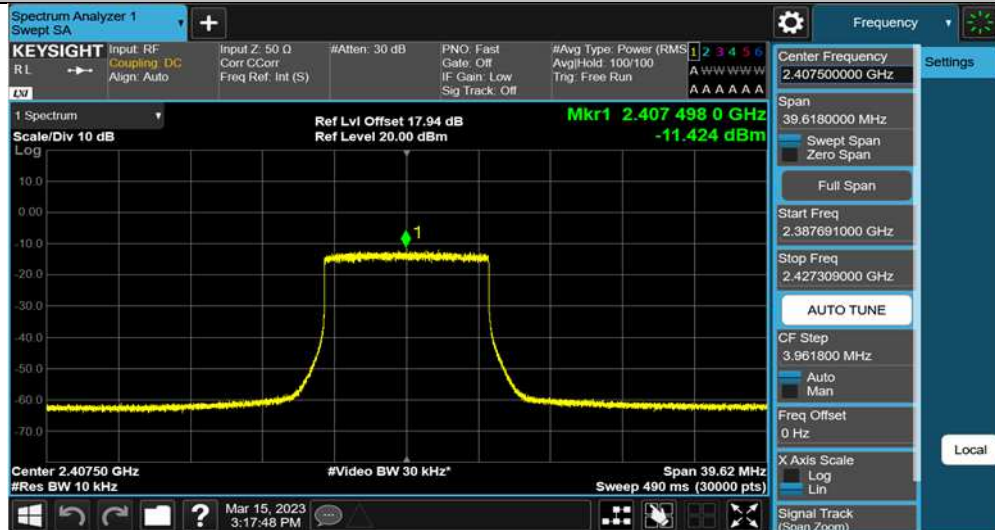
3MCA-MIMO_Ant2_2471.2



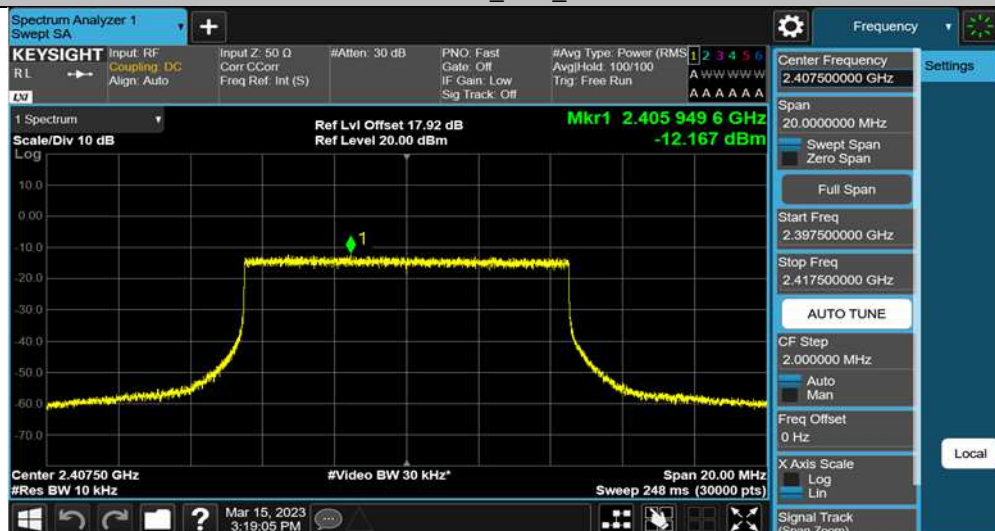
2.4GHz SDR, 10MHz BW

TestMode	Channel	Antenna	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
10M-MIMO	2407.5	Ant1	-11.42	≤8.00	PASS
		Ant2	-12.17	≤8.00	PASS
		Total	-8.77	≤8.00	PASS
	2437.5	Ant1	-12.36	≤8.00	PASS
		Ant2	-12.99	≤8.00	PASS
		Total	-9.65	≤8.00	PASS
	2467.5	Ant1	-13.83	≤8.00	PASS
		Ant2	-14.05	≤8.00	PASS
		Total	-10.93	≤8.00	PASS

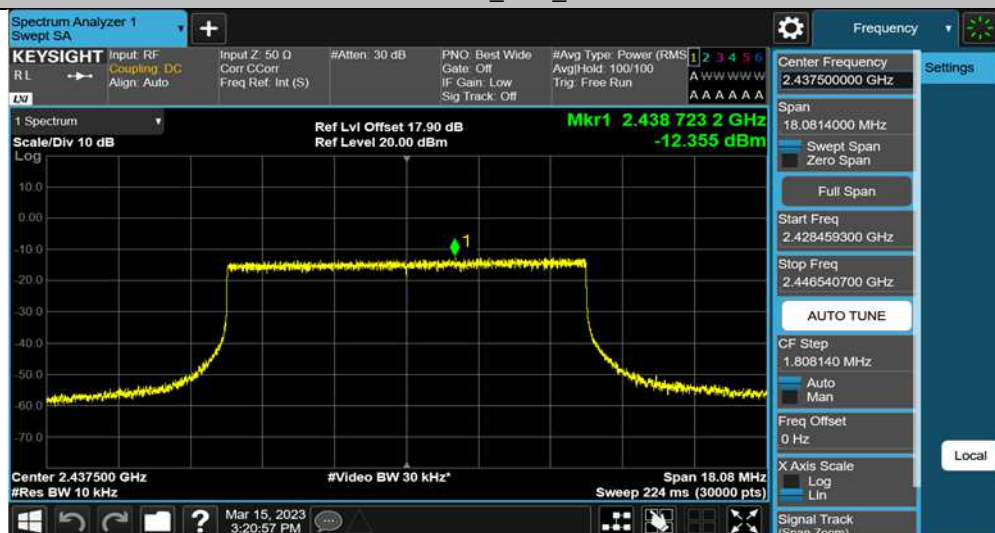
10M-MIMO_Ant1_2407.5



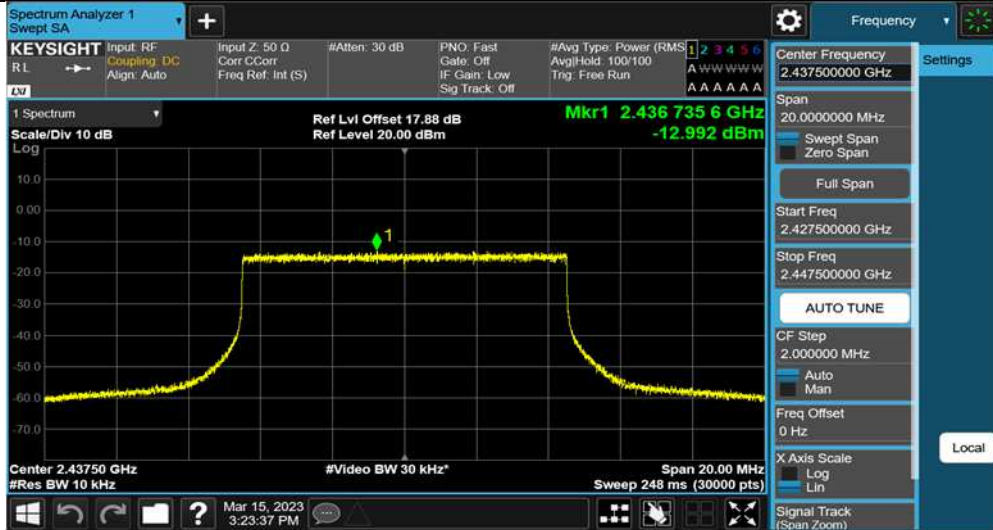
10M-MIMO_Ant2_2407.5



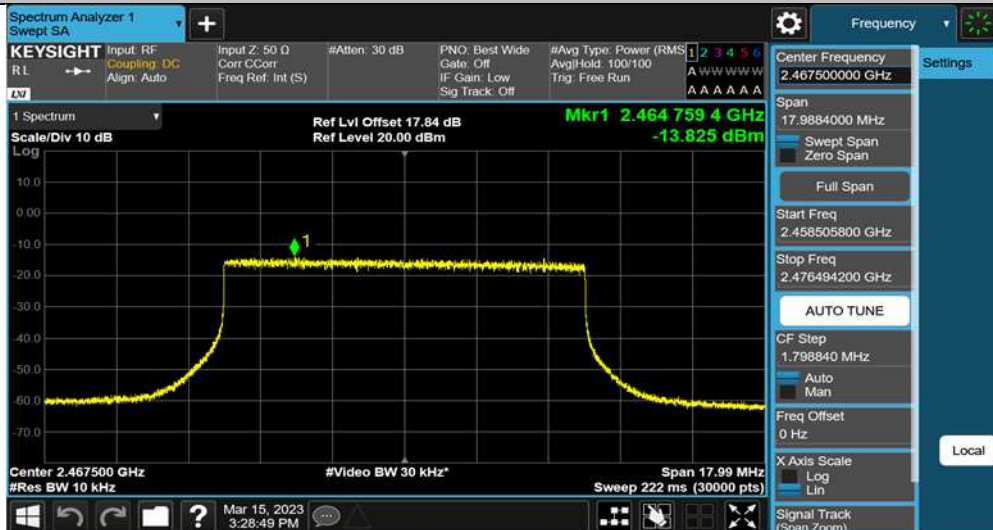
10M-MIMO_Ant1_2437.5



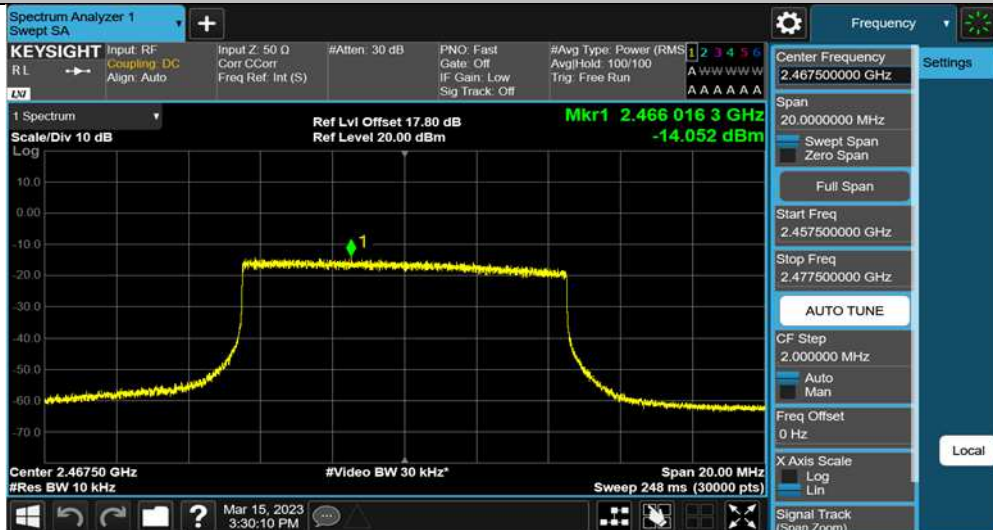
10M-MIMO_Ant2_2437.5



10M-MIMO_Ant1_2467.5



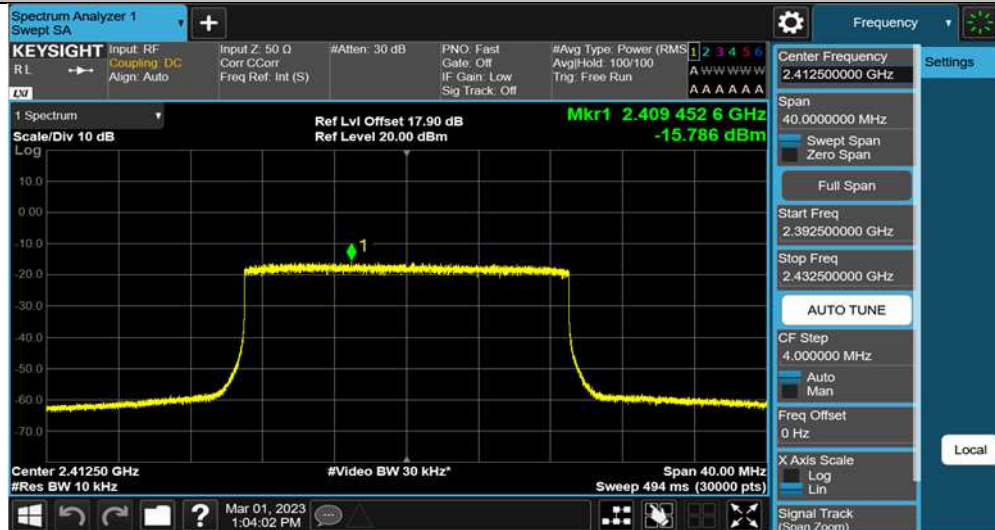
10M-MIMO_Ant2_2467.5



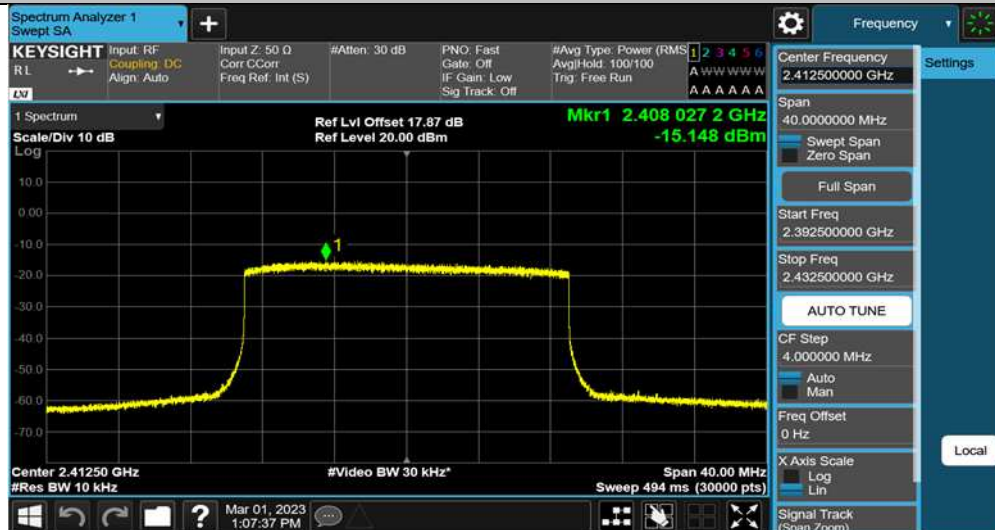
2.4GHz SDR, 20MHz BW

TestMode	Channel	Antenna	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
20M-MIMO	2412.5	Ant1	-15.79	≤8.00	PASS
		Ant2	-15.15	≤8.00	PASS
		Total	-12.45	≤8.00	PASS
	2437.5	Ant1	-15.79	≤8.00	PASS
		Ant2	-12.11	≤8.00	PASS
		Total	-10.56	≤8.00	PASS
	2462.5	Ant1	-19.81	≤8.00	PASS
		Ant2	-18.39	≤8.00	PASS
		Total	-16.03	≤8.00	PASS

20M-MIMO_Ant1_2412.5



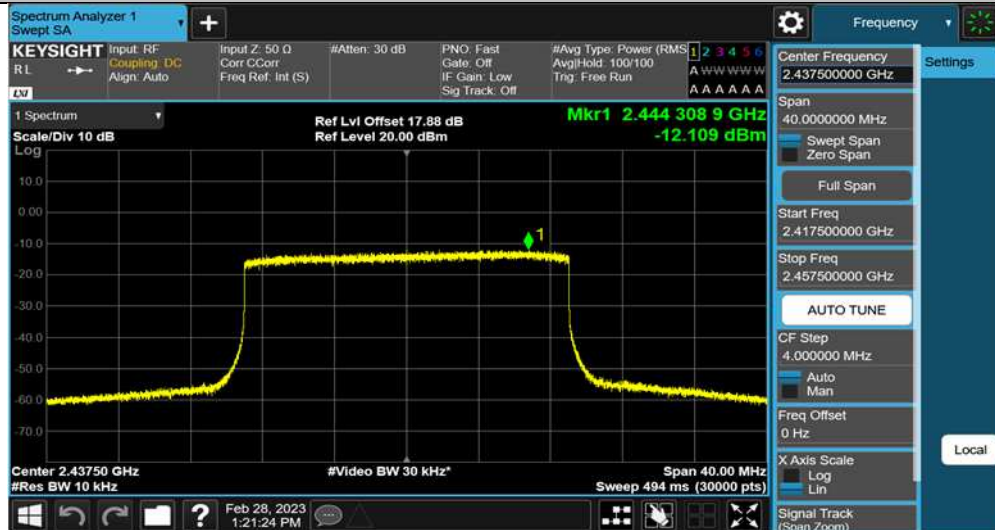
20M-MIMO_Ant2_2412.5



20M-MIMO_Ant1_2437.5



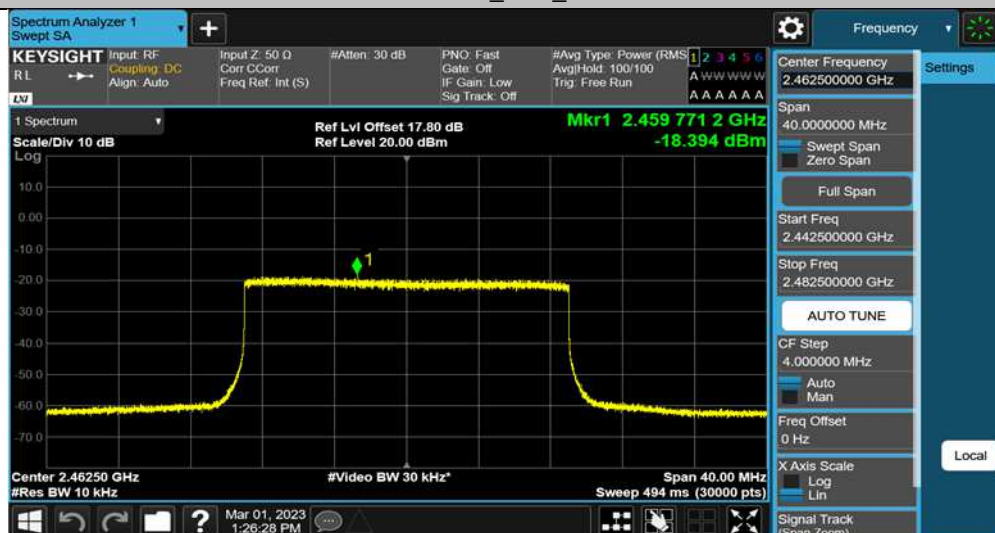
20M-MIMO_Ant2_2437.5



20M-MIMO_Ant1_2462.5



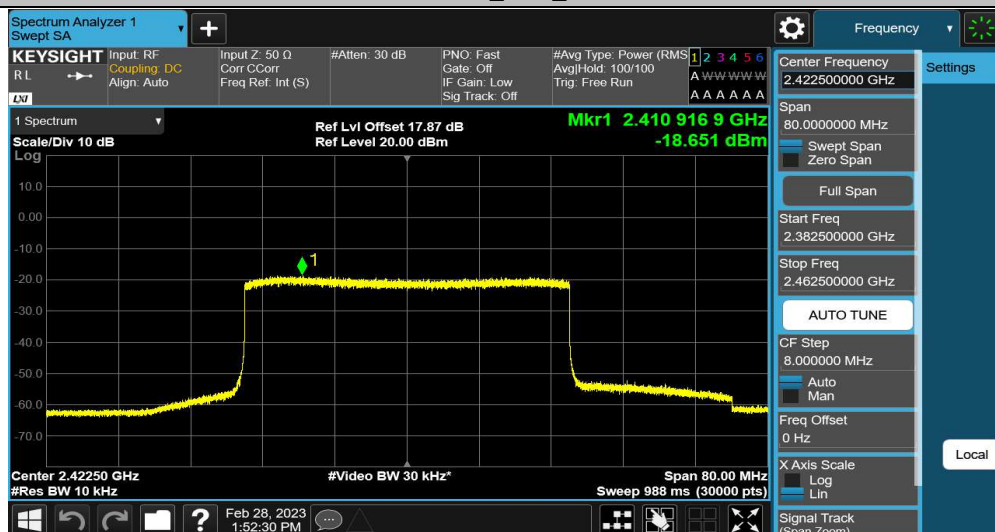
20M-MIMO_Ant2_2462.5



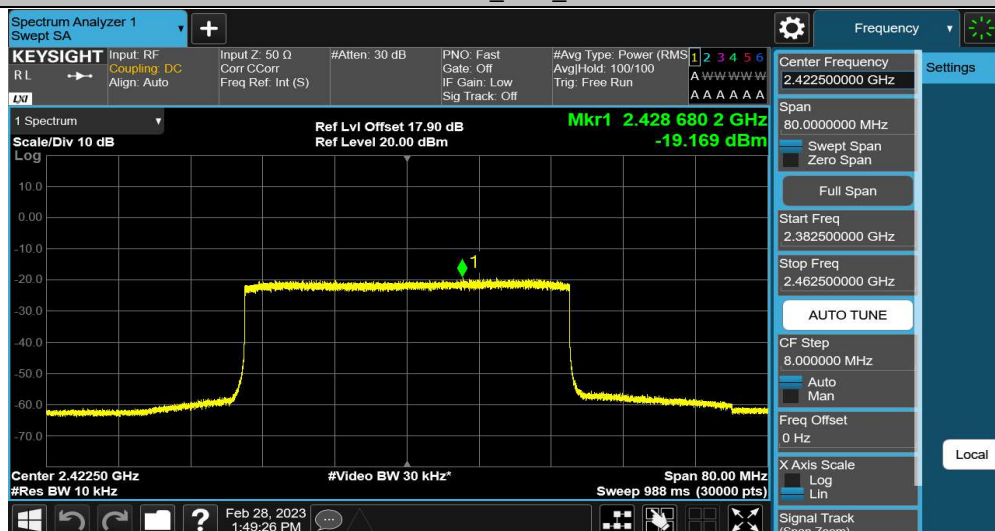
2.4GHz SDR, 40MHz BW

TestMode	Channel	Antenna	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
40M-MIMO	2422.5	Ant1	-18.65	≤8.00	PASS
		Ant2	-19.17	≤8.00	PASS
		Total	-15.89	≤8.00	PASS
	2437.5	Ant1	-15.39	≤8.00	PASS
		Ant2	-16.25	≤8.00	PASS
		Total	-12.79	≤8.00	PASS
	2452.5	Ant1	-18.31	≤8.00	PASS
		Ant2	-19.01	≤8.00	PASS
		Total	-15.64	≤8.00	PASS

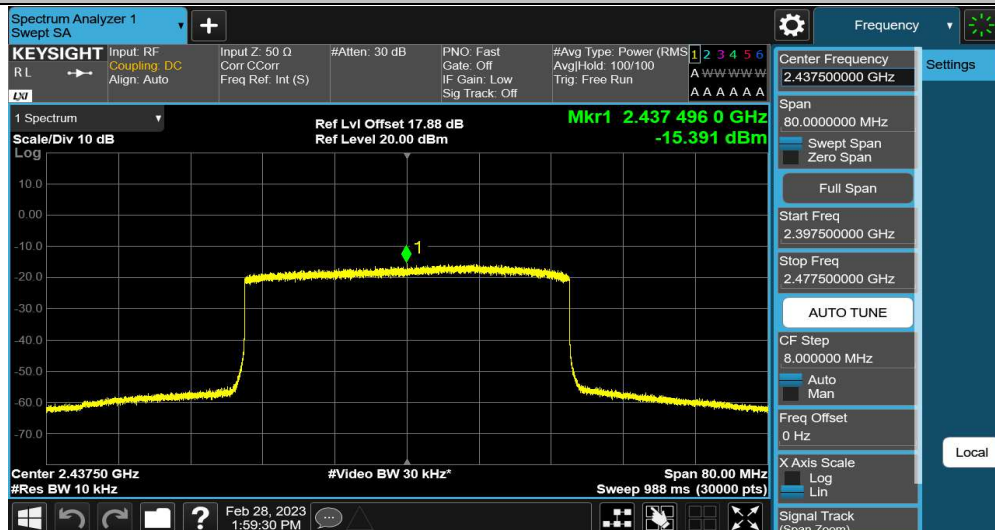
40M-MIMO_Ant1_2422.5



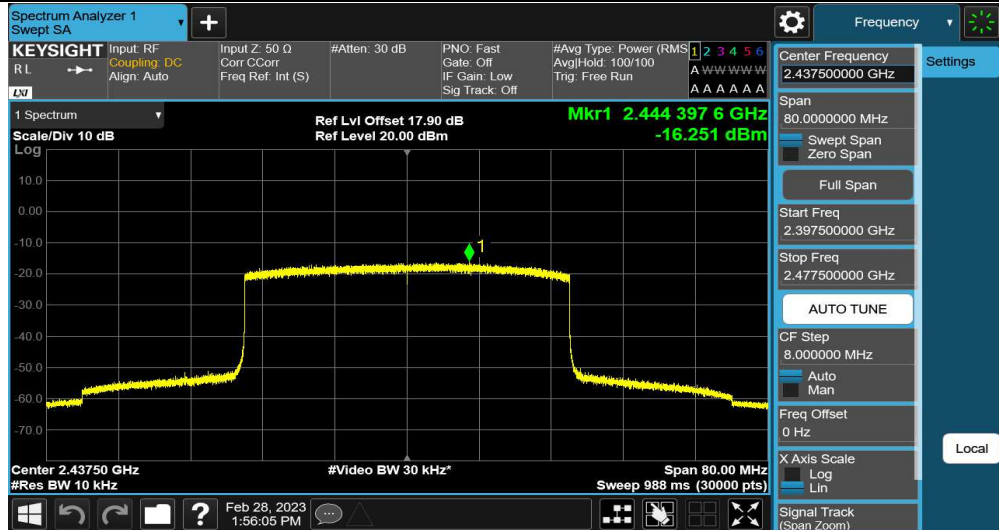
40M-MIMO_Ant2_2422.5



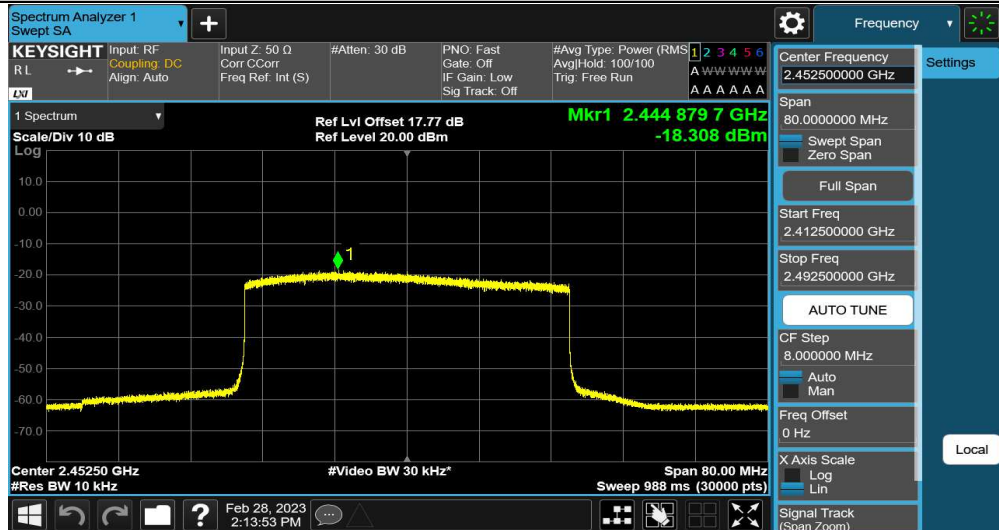
40M-MIMO_Ant1_2437.5



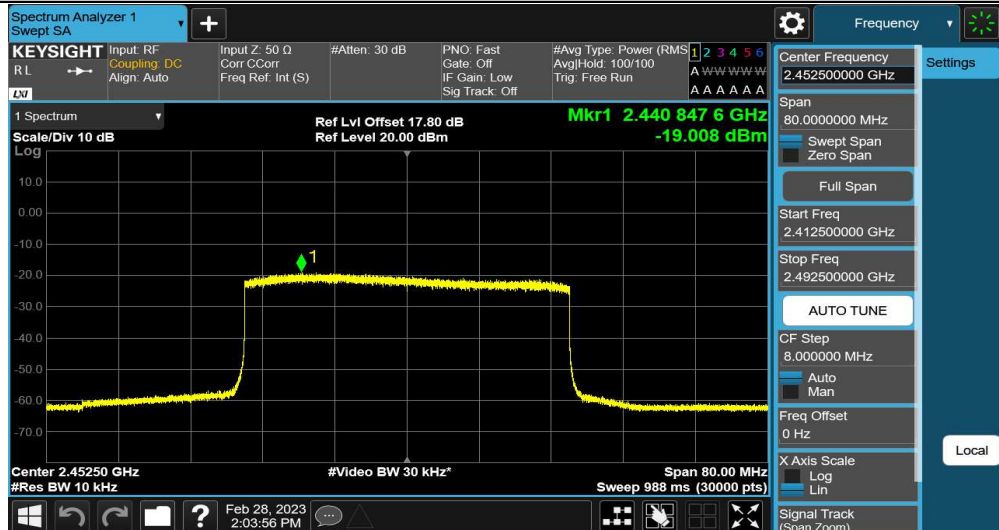
40M-MIMO_Ant2_2437.5



40M-MIMO_Ant1_2452.5



40M-MIMO_Ant2_2452.5



Appendix A.2: Test Results of 6dB Bandwidth

2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-MIMO	Ant1	2403.5	1.126	2402.934	2404.060	0.5	PASS
		2435.5	1.100	2434.954	2436.054	0.5	PASS
		2469.5	1.092	2468.943	2470.035	0.5	PASS

1.4M-MIMO_Ant1_2403.5



1.4M-MIMO_Ant1_2435.5



1.4M-MIMO_Ant1_2469.5



2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MCA-MIMO	Ant1	2405.12	1.109	2404.560	2405.669	0.5	PASS
		2437.12	1.098	2436.566	2437.663	0.5	PASS
		2471.12	1.064	2470.580	2471.644	0.5	PASS

1.4MCA-MIMO_Ant1_2405.12



1.4MCA-MIMO Ant1 2437.12



1.4MCA-MIMO Ant1 2471.12



2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M-MIMO	Ant1	2405.5	2.190	2404.408	2406.598	0.5	PASS
		2435.5	2.172	2434.420	2436.592	0.5	PASS
		2468.5	2.196	2467.396	2469.592	0.5	PASS



2.4GHz SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MCA-MIMO	Ant1	2408.2	2.208	2407.096	2409.304	0.5	PASS
		2438.2	2.202	2437.096	2439.298	0.5	PASS
		2471.2	2.178	2470.090	2472.268	0.5	PASS

3MCA-MIMO_Ant1_2408.2



3MCA-MIMO_Ant1_2438.2



3MCA-MIMO_Ant1_2471.2



2.4GHz SDR, 10MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M-MIMO	Ant1	2407.5	9.020	2403.000	2412.020	0.5	PASS
		2437.5	8.960	2433.040	2442.000	0.5	PASS
		2467.5	9.000	2462.980	2471.980	0.5	PASS

10M-MIMO_Ant1_2407.5**10M-MIMO_Ant1_2437.5****10M-MIMO_Ant1_2467.5**

2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20M-MIMO	Ant1	2412.5	17.880	2403.580	2421.460	0.5	PASS
		2437.5	18.000	2428.500	2446.500	0.5	PASS
		2462.5	17.840	2453.540	2471.380	0.5	PASS

20M-MIMO_Ant1_2412.5



20M-MIMO_Ant1_2437.5



20M-MIMO_Ant1_2462.5



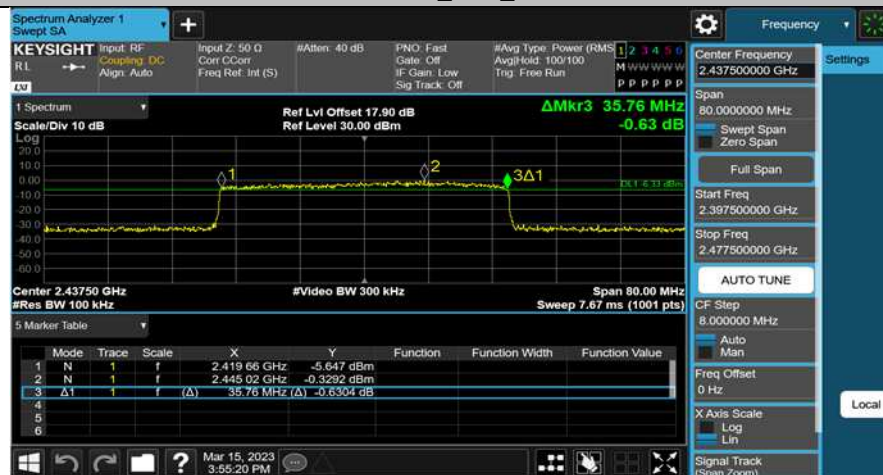
2.4GHz SDR, 40MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40M-MIMO	Ant1	2422.5	35.920	2404.580	2440.500	0.5	PASS
		2437.5	35.760	2419.660	2455.420	0.5	PASS
		2452.5	35.600	2434.580	2470.180	0.5	PASS

40M-MIMO_Ant1_2422.5



40M-MIMO_Ant1_2437.5



40M-MIMO_Ant1_2452.5



Appendix A.3: Test Results of 99% Bandwidth

2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-MIMO	Ant1	2403.5	1.1536	2402.9162	2404.0698	---	PASS
		2435.5	1.1803	2434.9083	2436.0886	---	PASS
		2469.5	1.2629	2468.8102	2470.0731	---	PASS

1.4M-MIMO_Ant1_2403.5



1.4M-MIMO_Ant1_2435.5



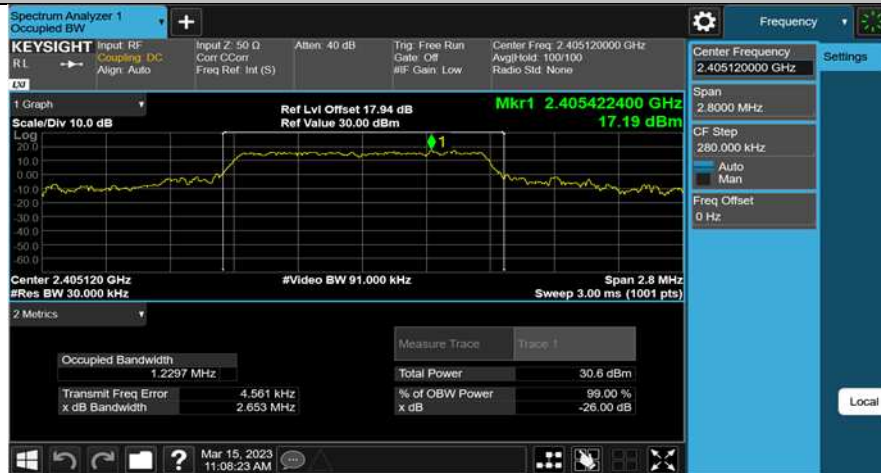
1.4M-MIMO_Ant1_2469.5



2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MCA-MIMO	Ant1	2405.12	1.2297	2404.5097	2405.7394	---	PASS
		2437.12	1.2114	2436.5181	2437.7295	---	PASS
		2471.12	1.3083	2470.3783	2471.6866	---	PASS

1.4MCA-MIMO_Ant1_2405.12



1.4MCA-MIMO_Ant1_2437.12



1.4MCA-MIMO_Ant1_2471.12



2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M-MIMO	Ant1	2405.5	2.3420	2404.3409	2406.6829	---	PASS
		2435.5	2.3615	2434.3547	2436.7162	---	PASS
		2468.5	2.4769	2467.1624	2469.6393	---	PASS

3M-MIMO_Ant1_2405.5



3M-MIMO_Ant1_2435.5



3M-MIMO_Ant1_2468.5



2.4GHz SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MCA-MIMO	Ant1	2408.2	2.2269	2407.0672	2409.2941	---	PASS
		2438.2	2.3065	2437.0604	2439.3669	---	PASS
		2471.2	2.6245	2469.7119	2472.3364	---	PASS

3MCA-MIMO_Ant1_2408.2



3MCA-MIMO_Ant1_2438.2



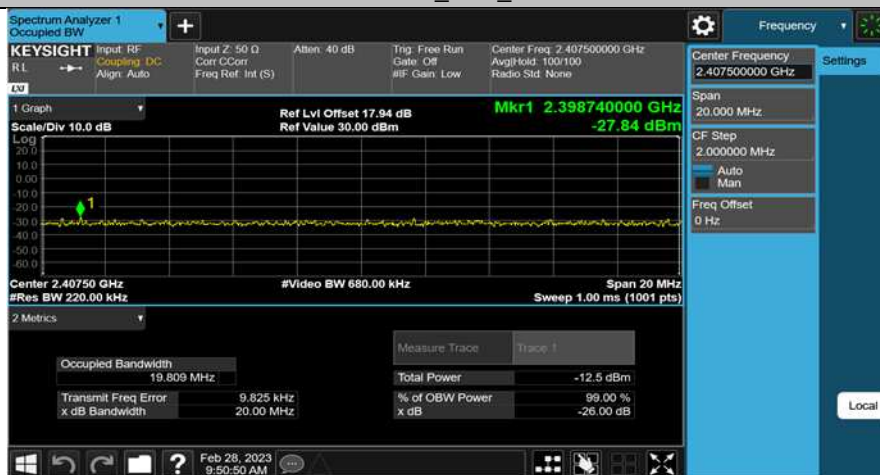
3MCA-MIMO_Ant1_2471.2



2.4GHz SDR, 10MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M-MIMO	Ant1	2407.5	19.809	2397.6053	2417.4143	---	PASS
		2437.5	9.0407	2432.9970	2442.0377	---	PASS
		2467.5	8.9942	2462.9797	2471.9739	---	PASS

10M-MIMO_Ant1_2407.5



10M-MIMO_Ant1_2437.5



10M-MIMO_Ant1_2467.5



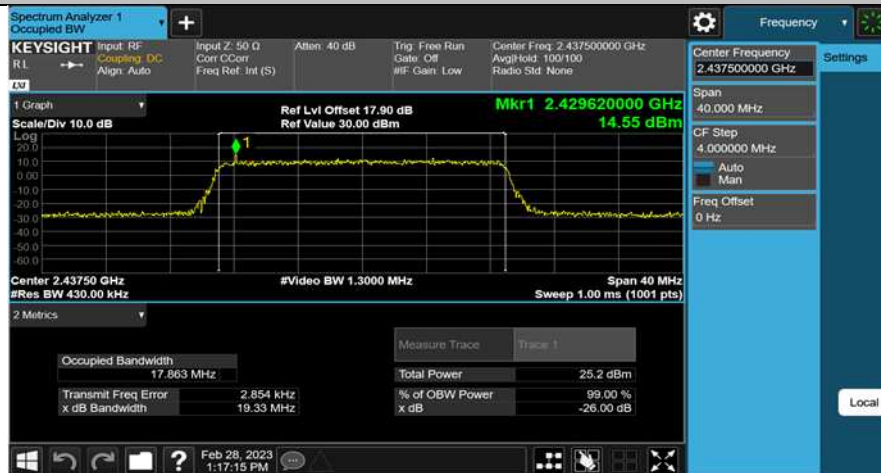
2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20M-MIMO	Ant1	2412.5	17.795	2403.5991	2421.3941	---	PASS
		2437.5	17.863	2428.5714	2446.4344	---	PASS
		2462.5	17.876	2453.5197	2471.3957	---	PASS

20M-MIMO_Ant1_2412.5



20M-MIMO_Ant1_2437.5



20M-MIMO_Ant1_2462.5



2.4GHz SDR, 40MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40M-MIMO	Ant1	2422.5	35.861	2404.6257	2440.4867	---	PASS
		2437.5	35.680	2419.6265	2455.3065	---	PASS
		2452.5	35.727	2434.4946	2470.2216	---	PASS

40M-MIMO_Ant1_2422.5



40M-MIMO_Ant1_2437.5



40M-MIMO_Ant1_2452.5



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

Bandedge

2.4GHz SDR, 1.4MHz BW_Bandedge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
1.4M-MIMO	Ant1	Low	2403.5	22.98	-35.40	≤-7.12	PASS
		High	2469.5	19.79	-44.64	≤-10.21	PASS

1.4M-MIMO_Ant1_Low_2403.5



1.4M-MIMO_Ant1_High_2469.5



2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
1.4MCA-MIMO	Ant1	Low	2405.12	23.77	-33.55	≤-6.23	PASS
		High	2471.12	18.88	-34.80	≤-11.12	PASS



2.4GHz SDR, 3MHz BW

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
3M-MIMO	Ant1	Low	2405.5	19.48	-35.63	≤-10.52	PASS
		High	2468.5	16.48	-43.66	≤-13.52	PASS

3M-MIMO_Ant1_Low_2405.5



3M-MIMO_Ant1_High_2468.5



2.4GHz SDR, 3MHz BW CA mode

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
3MCA-MIMO	Ant1	Low	2408.2	19.26	-39.29	≤-10.74	PASS
		High	2471.2	13.03	-43.77	≤-16.97	PASS

3MCA-MIMO_Ant1_Low_2408.2



3MCA-MIMO_Ant1_High_2471.2

