

Appendix A: Test Results of 2.4GHz SDR

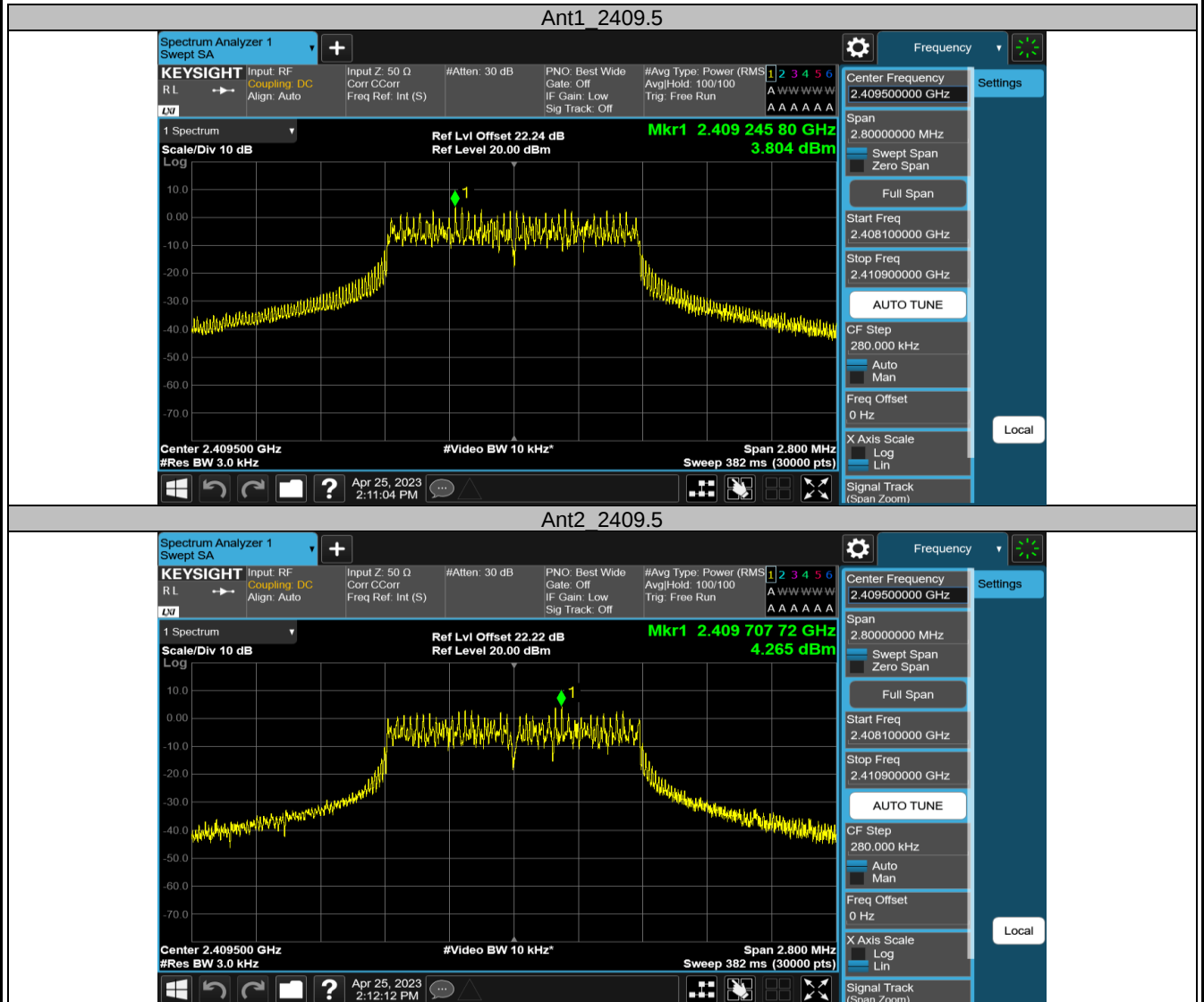
APPENDIX A: TEST RESULTS OF 2.4GHZ SDR.....	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
2.4GHz SDR, 1.4MHz BW.....	2
2.4GHz SDR, 1.4MHz BW CA mode	3
2.4GHz SDR, 3MHz BW.....	4
2.4GHz SDR, 3MHz BW CA mode	5
2.4GHz SDR, 10MHz BW.....	6
2.4GHz SDR, 20MHz BW.....	7
2.4GHz SDR, 40MHz BW.....	8
APPENDIX A.2: TEST RESULTS OF 6dB BANDWIDTH	9
2.4GHz SDR, 1.4MHz BW.....	9
2.4GHz SDR, 1.4MHz BW CA mode	10
2.4GHz SDR, 3MHz BW.....	11
2.4GHz SDR, 3MHz BW CA mode	12
2.4GHz SDR, 10MHz BW.....	13
2.4GHz SDR, 20MHz BW.....	14
2.4GHz SDR, 40MHz BW.....	15
APPENDIX A.3: TEST RESULTS OF 99% BANDWIDTH.....	16
2.4GHz SDR, 1.4MHz BW.....	16
2.4GHz SDR, 1.4MHz BW CA mode	17
2.4GHz SDR, 3MHz BW.....	18
2.4GHz SDR, 3MHz BW CA mode	19
2.4GHz SDR, 10MHz BW.....	20
2.4GHz SDR, 20MHz BW.....	21
2.4GHz SDR, 40MHz BW.....	22
APPENDIX A.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH	23
Bandedge	23
Conducted Spurious Emission	30
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	58
30MHz - 1GHz (Worst case)	58
1GHz - 18GHz.....	60
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	88
2.4GHz SDR, 1.4MHz BW.....	88
2.4GHz SDR, 1.4MHz BW CA mode	92
2.4GHz SDR, 3MHz BW.....	96
2.4GHz SDR, 3MHz BW CA mode	100
2.4GHz SDR, 10MHz BW.....	104
2.4GHz SDR, 20MHz BW.....	110
2.4GHz SDR, 40MHz BW.....	119
APPENDIX A.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	127

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

2.4GHz SDR, 1.4MHz BW

TestMode	Channel	Antenna	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
1.4M-MIMO	2409.5	Ant1	3.80	≤8.00	PASS
		Ant2	4.27	≤8.00	PASS
		Total	7.05	≤8.00	PASS
	2435.5	Ant1	1.51	≤8.00	PASS
		Ant2	0.60	≤8.00	PASS
		Total	4.09	≤8.00	PASS
	2463.5	Ant1	2.04	≤8.00	PASS
		Ant2	1.08	≤8.00	PASS
		Total	4.60	≤8.00	PASS

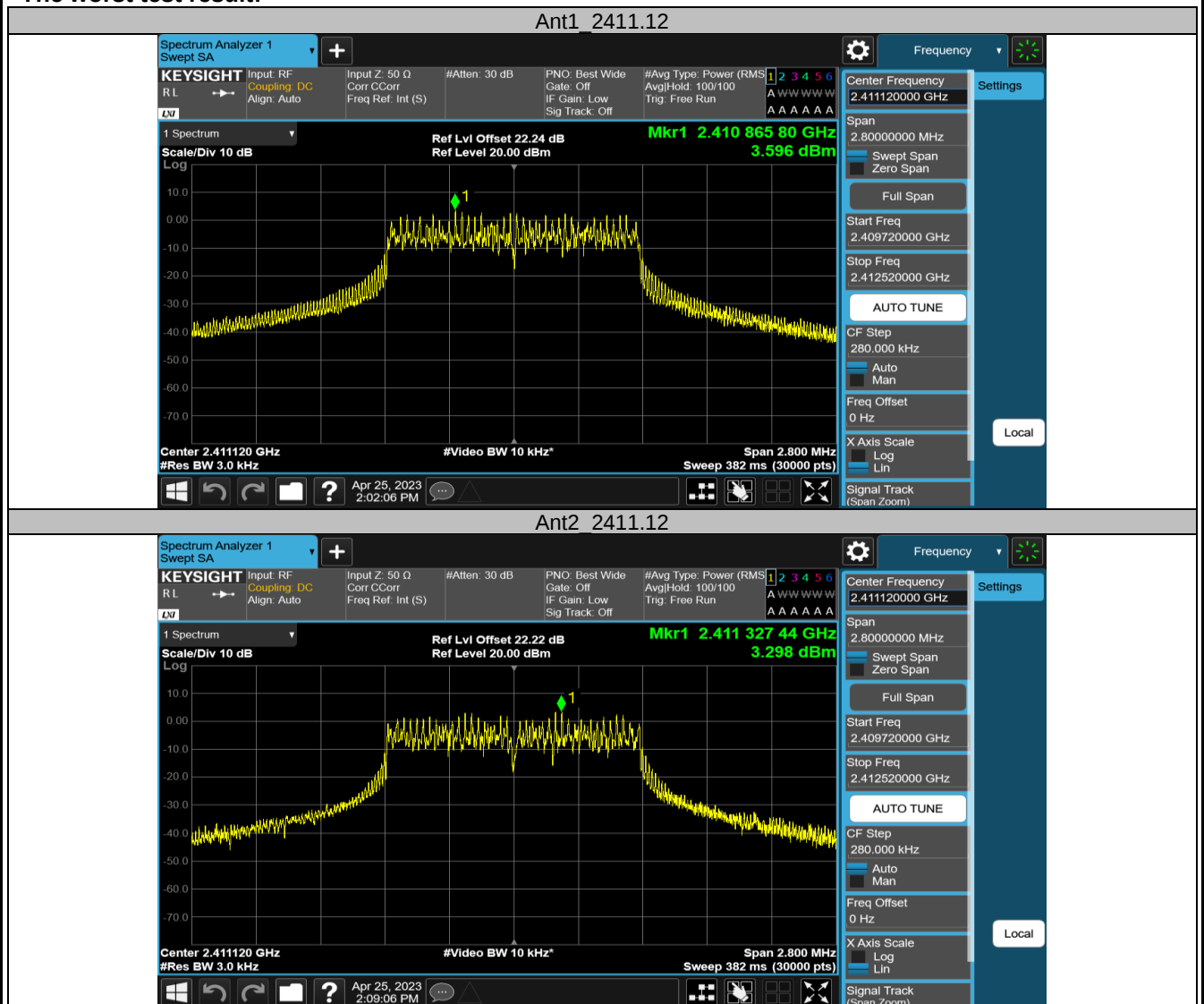
The worst test result:



2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Channel	Antenna	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
1.4MCA-MIMO	2411.12	Ant1	3.60	≤8.00	PASS
		Ant2	3.30	≤8.00	PASS
		Total	6.46	≤8.00	PASS
	2437.12	Ant1	2.34	≤8.00	PASS
		Ant2	0.91	≤8.00	PASS
		Total	4.69	≤8.00	PASS
	2465.12	Ant1	2.32	≤8.00	PASS
		Ant2	1.66	≤8.00	PASS
		Total	5.01	≤8.00	PASS

The worst test result:



2.4GHz SDR, 3MHz BW

TestMode	Channel	Antenna	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
3M-MIMO	2410.5	Ant1	1.69	≤8.00	PASS
		Ant2	1.69	≤8.00	PASS
		Total	4.70	≤8.00	PASS
	2434.5	Ant1	-0.41	≤8.00	PASS
		Ant2	-0.94	≤8.00	PASS
		Total	2.34	≤8.00	PASS
	2461.5	Ant1	-0.22	≤8.00	PASS
		Ant2	-0.40	≤8.00	PASS
		Total	2.70	≤8.00	PASS

The worst test result:



2.4GHz SDR, 3MHz BW CA mode

TestMode	Channel	Antenna	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
3MCA-MIMO	2413.2	Ant1	1.01	≤8.00	PASS
		Ant2	1.19	≤8.00	PASS
		Total	4.11	≤8.00	PASS
	2437.2	Ant1	0.14	≤8.00	PASS
		Ant2	-1.05	≤8.00	PASS
		Total	2.60	≤8.00	PASS
	2464.2	Ant1	-0.09	≤8.00	PASS
		Ant2	-0.66	≤8.00	PASS
		Total	2.64	≤8.00	PASS

The worst test result:



2.4GHz SDR, 10MHz BW

TestMode	Channel	Antenna	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
10M-MIMO	2405.5	Ant1	-22.71	≤8.00	PASS
		Ant2	-26.73	≤8.00	PASS
		Total	-21.26	≤8.00	PASS
	2436.5	Ant1	-12.60	≤8.00	PASS
		Ant2	-13.48	≤8.00	PASS
		Total	-10.01	≤8.00	PASS
	2467.5	Ant1	-13.25	≤8.00	PASS
		Ant2	-14.15	≤8.00	PASS
		Total	-10.67	≤8.00	PASS

The worst test result:



2.4GHz SDR, 20MHz BW

TestMode	Channel	Antenna	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
20M-MIMO	2410.5	Ant1	-19.63	≤8.00	PASS
		Ant2	-24.94	≤8.00	PASS
		Total	-18.51	≤8.00	PASS
	2441.5	Ant1	-16.75	≤8.00	PASS
		Ant2	-16.40	≤8.00	PASS
		Total	-13.56	≤8.00	PASS
	2472.5	Ant1	-19.79	≤8.00	PASS
		Ant2	-23.82	≤8.00	PASS
		Total	-18.34	≤8.00	PASS

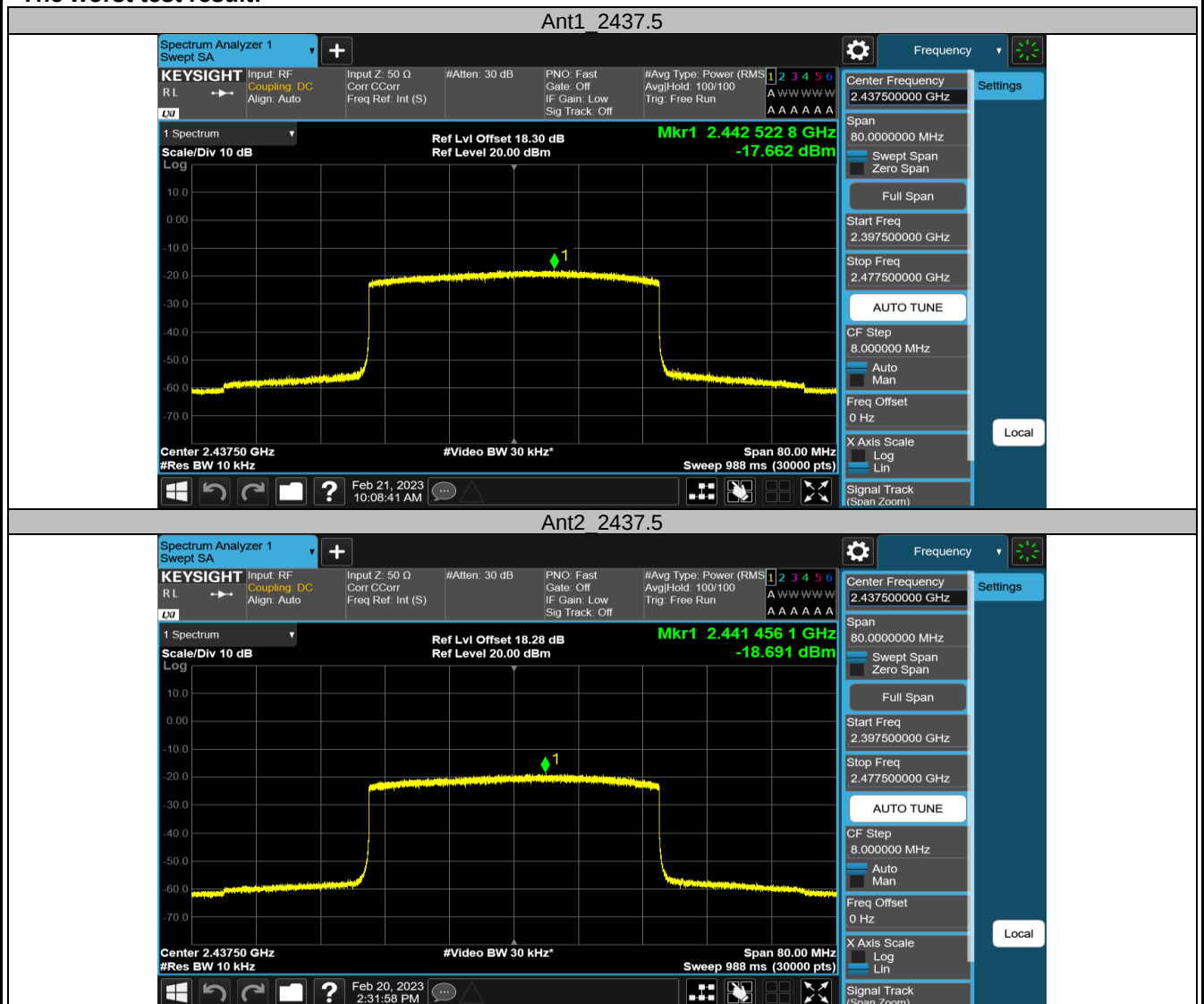
The worst test result:



2.4GHz SDR, 40MHz BW

TestMode	Channel	Antenna	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
40M-MIMO	2422.5	Ant1	-21.24	≤8.00	PASS
		Ant2	-17.41	≤8.00	PASS
		Total	-15.91	≤8.00	PASS
	2437.5	Ant1	-17.66	≤8.00	PASS
		Ant2	-18.69	≤8.00	PASS
		Total	-15.13	≤8.00	PASS
	2452.5	Ant1	-22.08	≤8.00	PASS
		Ant2	-20.08	≤8.00	PASS
		Total	-17.96	≤8.00	PASS

The worst test result:



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	2409.5	1.095	2408.948	2410.043	0.5	PASS
		2435.5	1.092	2434.954	2436.046	0.5	PASS
		2463.5	1.109	2462.940	2464.049	0.5	PASS

1.4M-MIMO Ant1 2409.5



1.4M-MIMO Ant1 2435.5

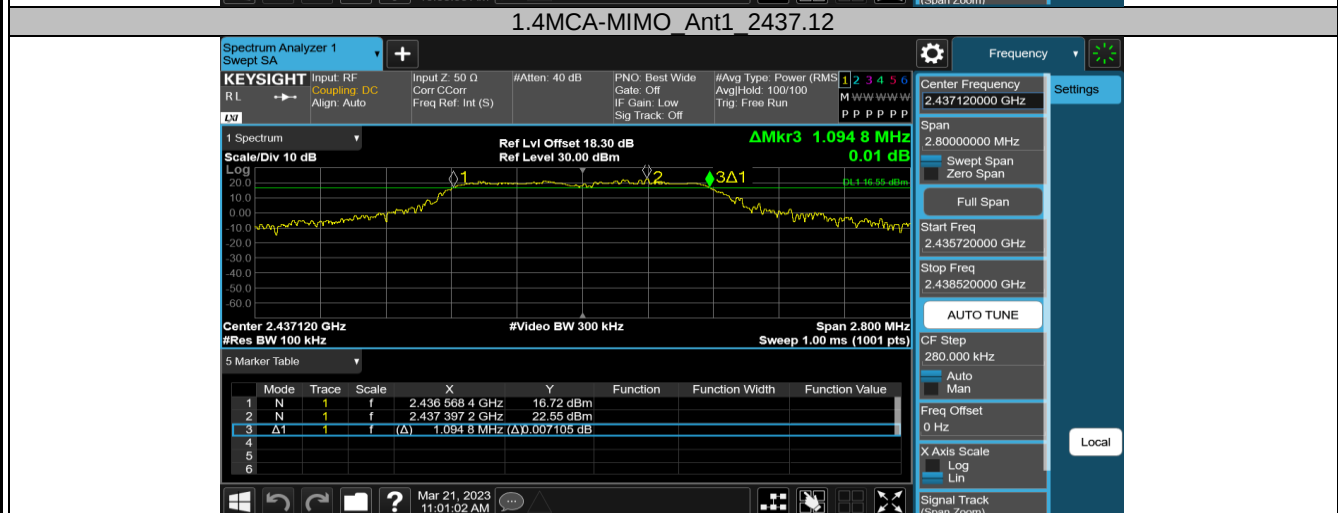
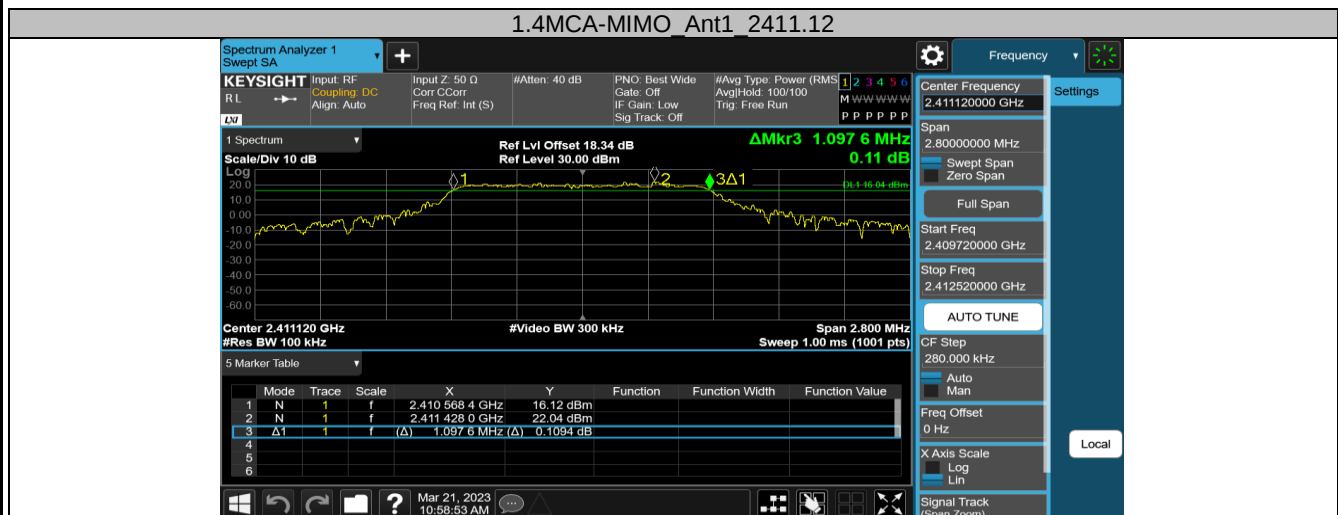


1.4M-MIMO Ant1 2463.5

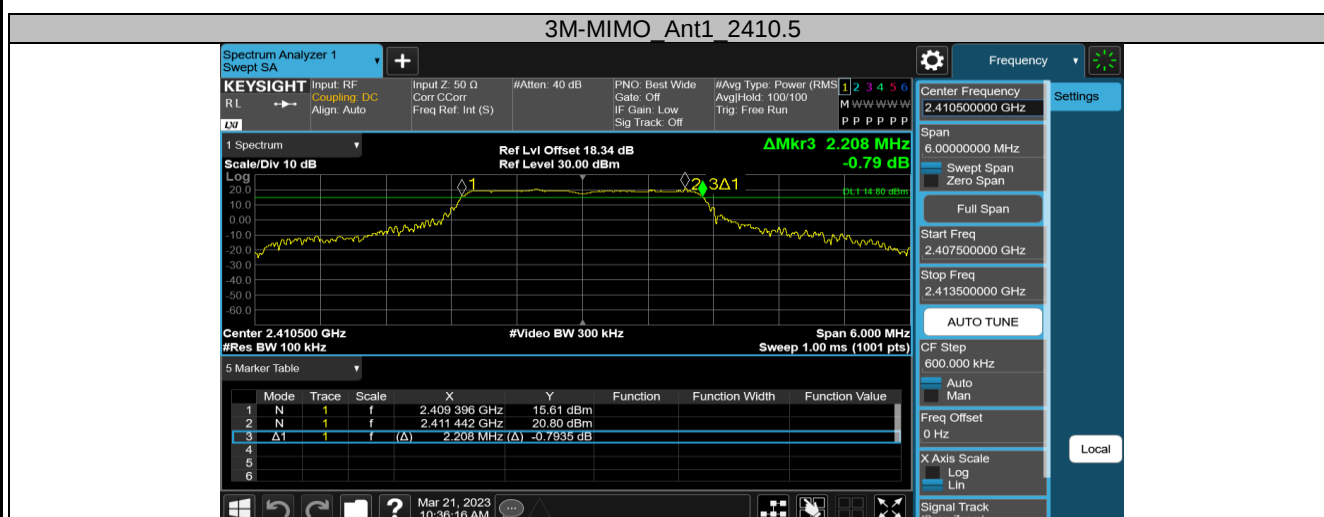


2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MCA-MIMO	Ant1	2411.12	1.098	2410.568	2411.666	0.5	PASS
		2437.12	1.095	2436.568	2437.663	0.5	PASS
		2465.12	1.092	2464.574	2465.666	0.5	PASS

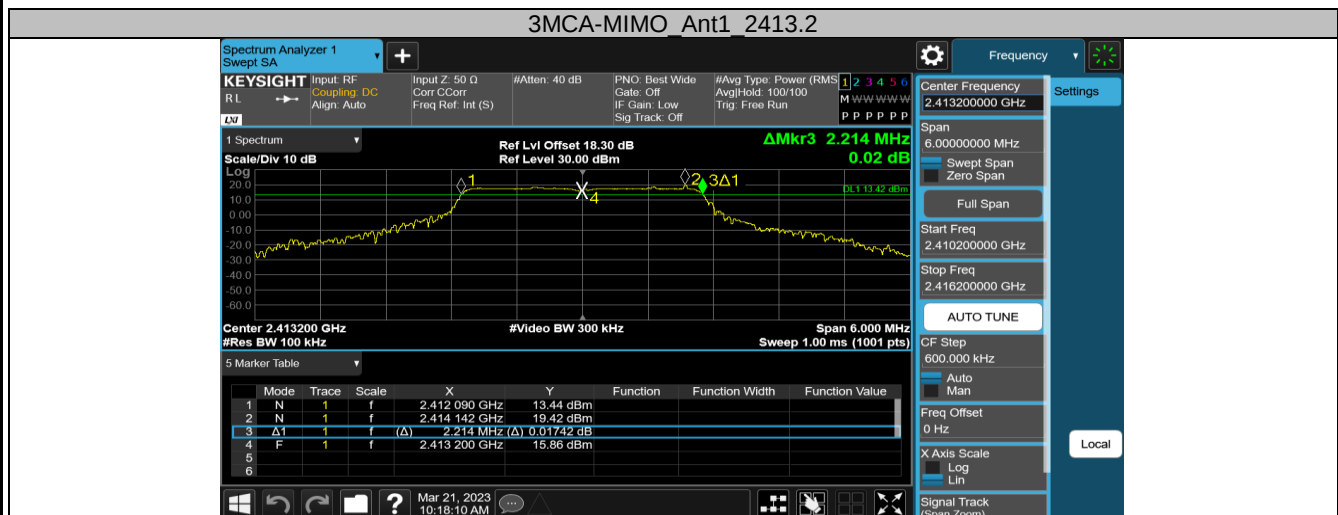


TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M-MIMO	Ant1	2410.5	2.208	2409.396	2411.604	0.5	PASS
		2434.5	2.166	2433.420	2435.586	0.5	PASS
		2461.5	2.202	2460.408	2462.610	0.5	PASS



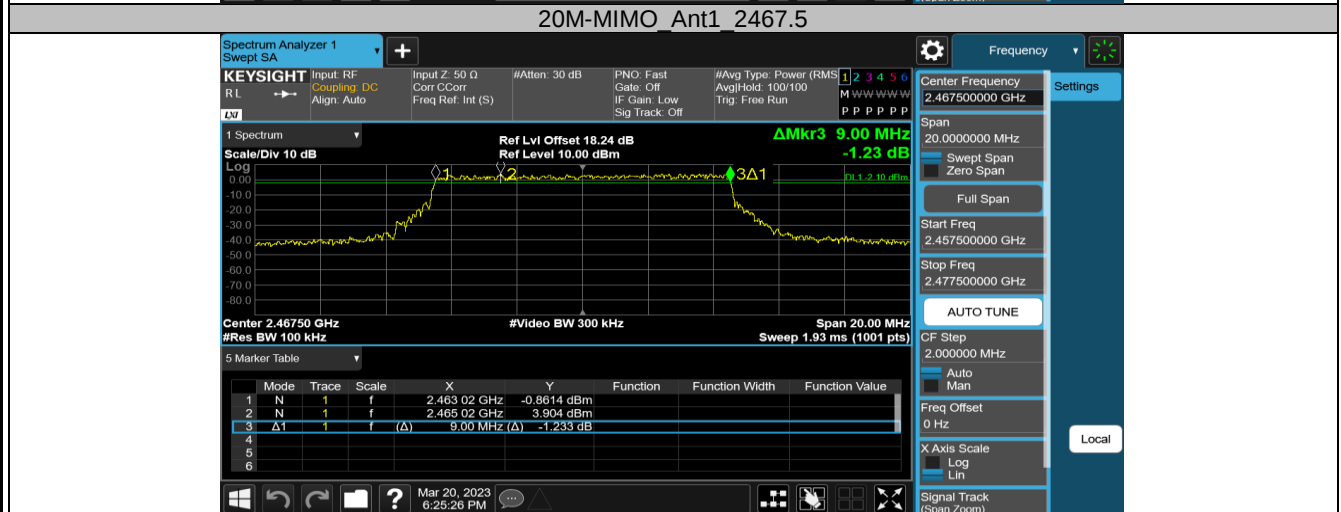
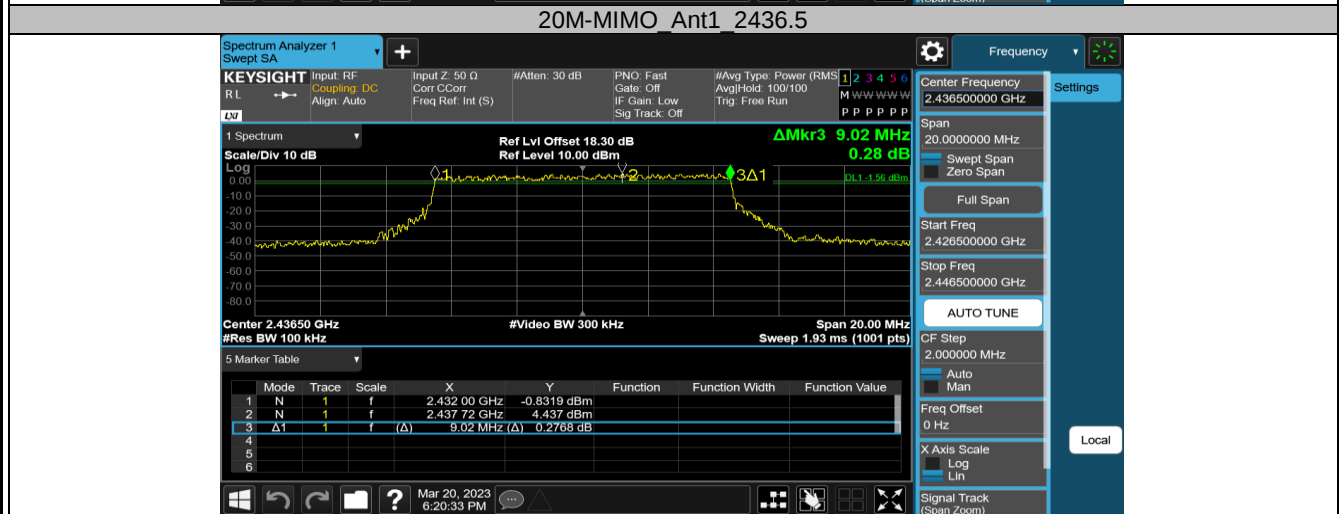
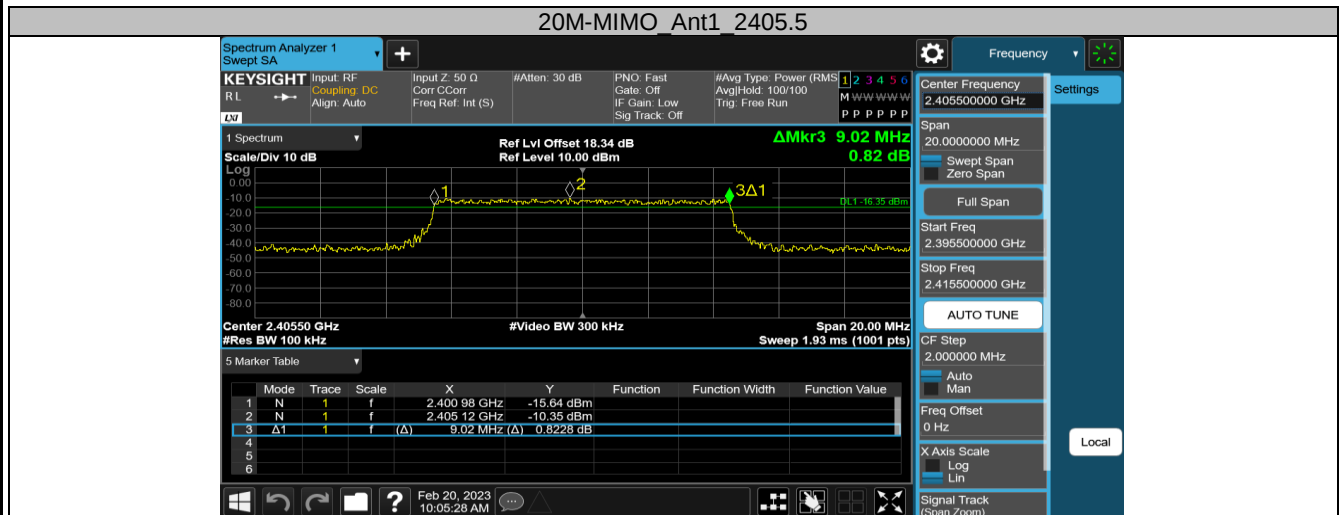
2.4GHz SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MCA-MIMO	Ant1	2413.2	2.214	2412.090	2414.304	0.5	PASS
		2437.2	2.202	2436.114	2438.316	0.5	PASS
		2464.2	2.184	2463.120	2465.304	0.5	PASS



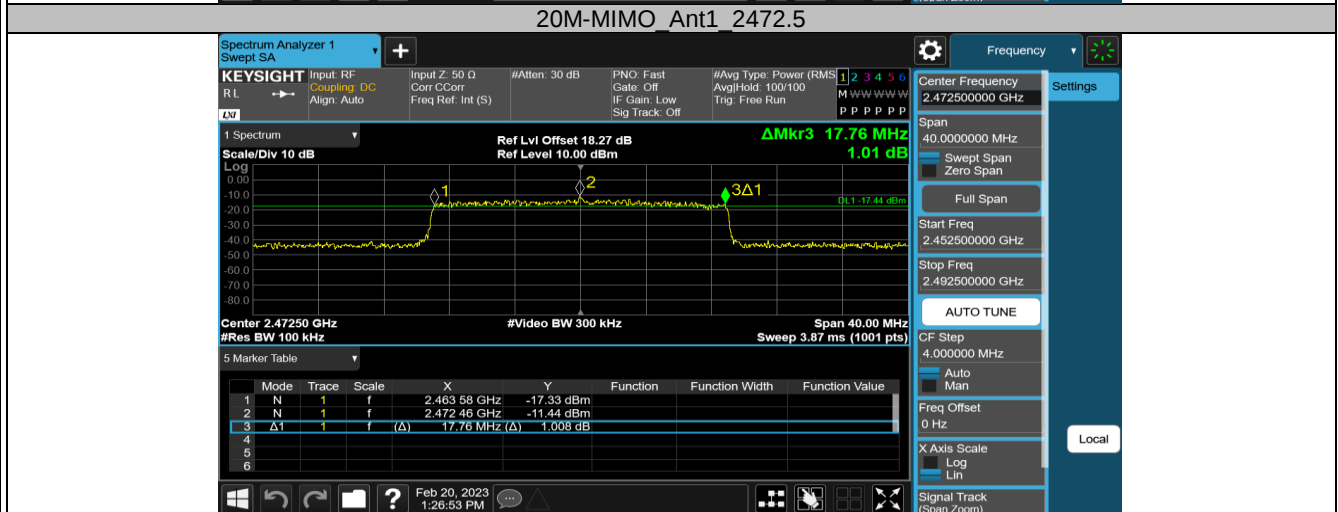
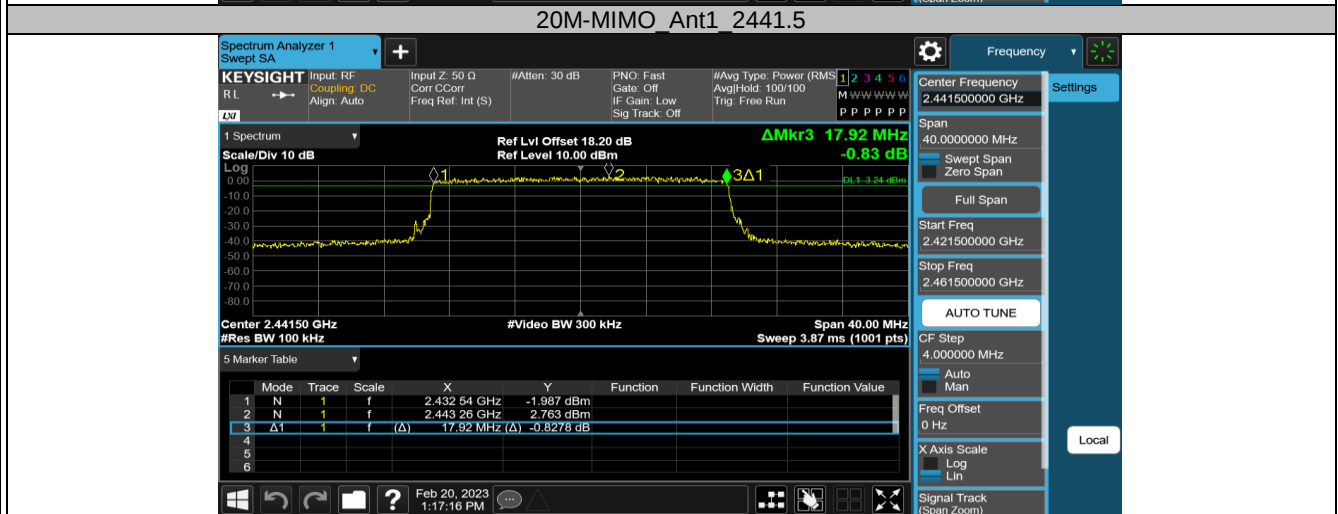
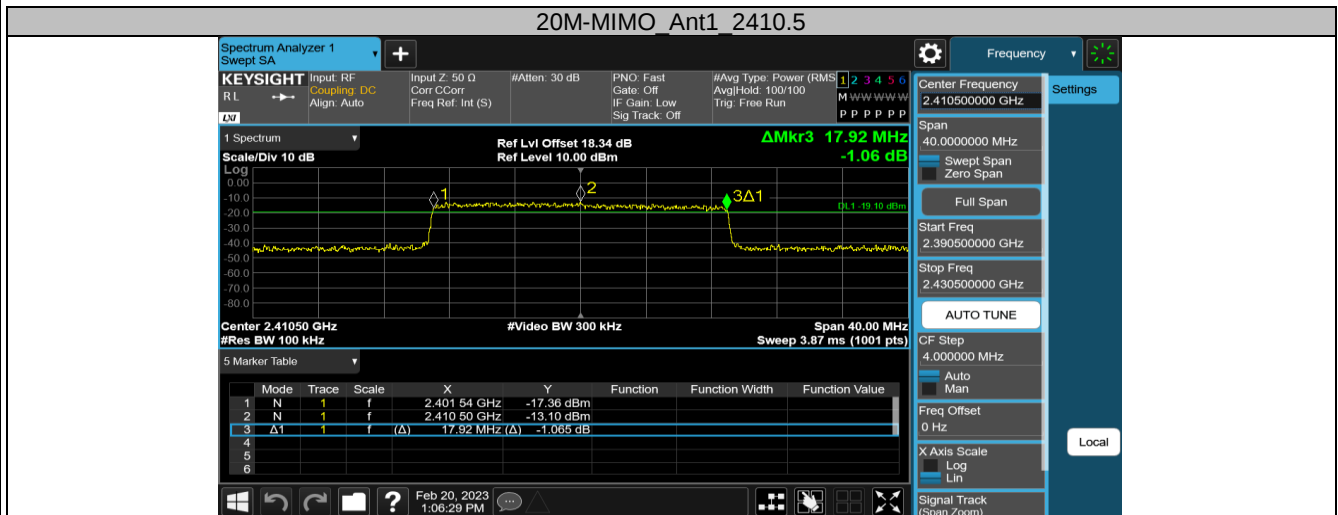
2.4GHz SDR, 10MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M-MIMO	Ant1	2405.5	9.020	2400.980	2410.000	0.5	PASS
		2436.5	9.020	2432.000	2441.020	0.5	PASS
		2467.5	9.000	2463.020	2472.020	0.5	PASS



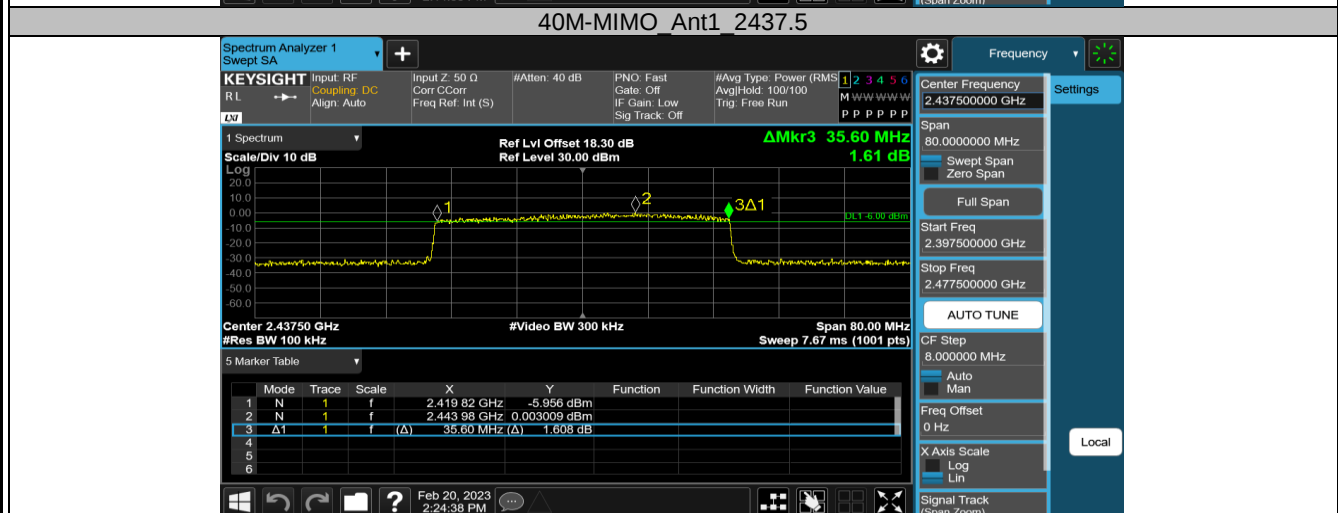
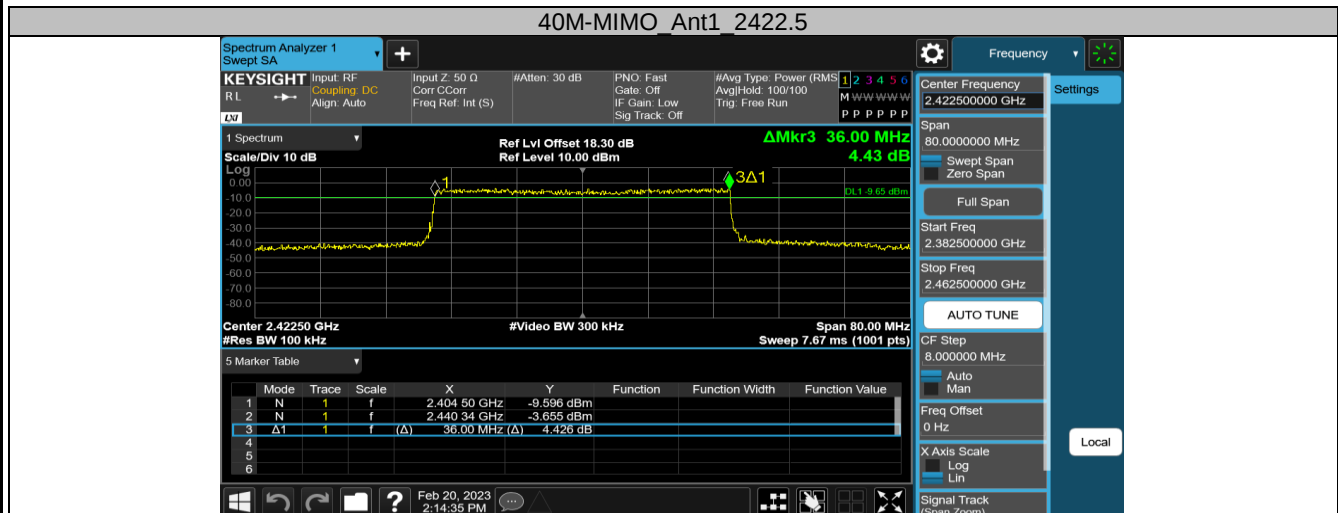
2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20M-MIMO	Ant1	2410.5	17.920	2401.540	2419.460	0.5	PASS
		2441.5	17.920	2432.540	2450.460	0.5	PASS
		2472.5	17.760	2463.580	2481.340	0.5	PASS



2.4GHz SDR, 40MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40M-MIMO	Ant1	2422.5	36.000	2404.500	2440.500	0.5	PASS
		2437.5	35.600	2419.820	2455.420	0.5	PASS
		2452.5	35.920	2434.500	2470.420	0.5	PASS

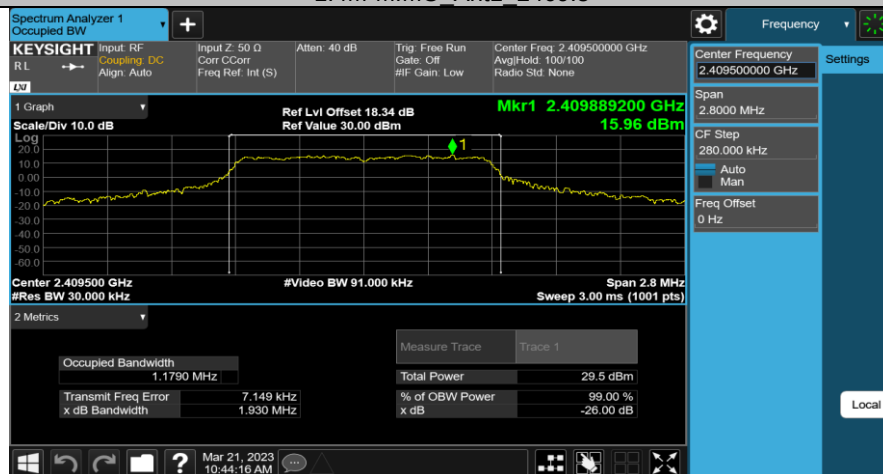


Appendix A.3: Test Results of 99% Bandwidth

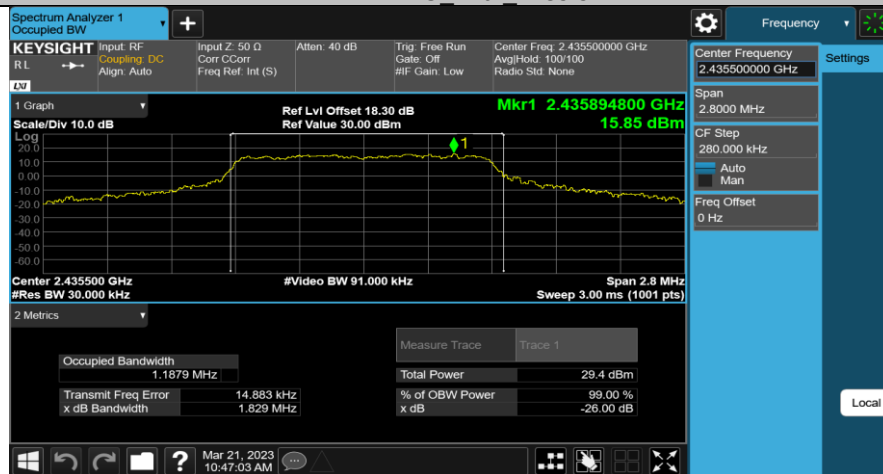
2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-MIMO	Ant1	2409.5	1.1790	2408.9177	2410.0967	---	PASS
		2435.5	1.1879	2434.9209	2436.1088	---	PASS
		2463.5	1.1814	2462.9200	2464.1014	---	PASS

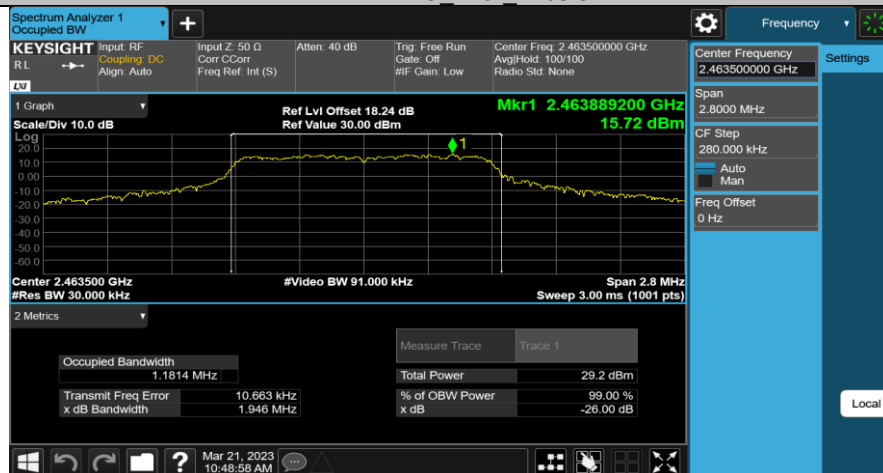
1.4M-MIMO Ant1 2409.5



1.4M-MIMO Ant1 2435.5



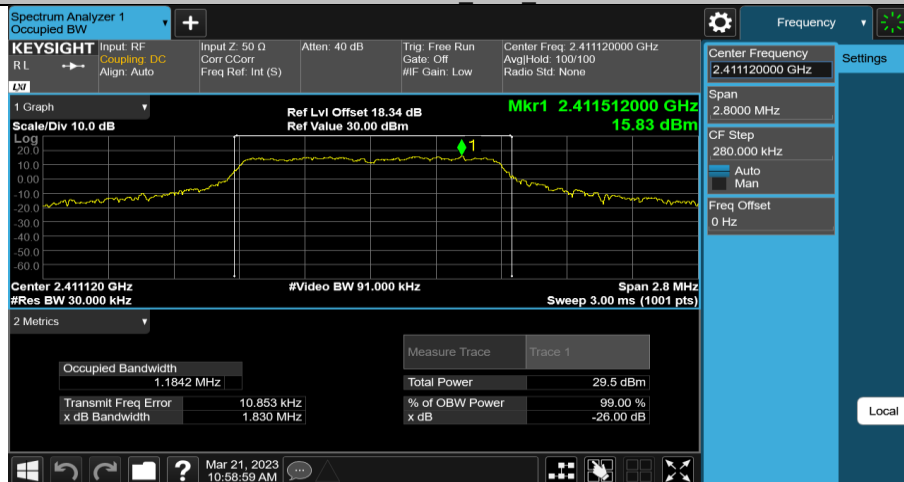
1.4M-MIMO Ant1 2463.5



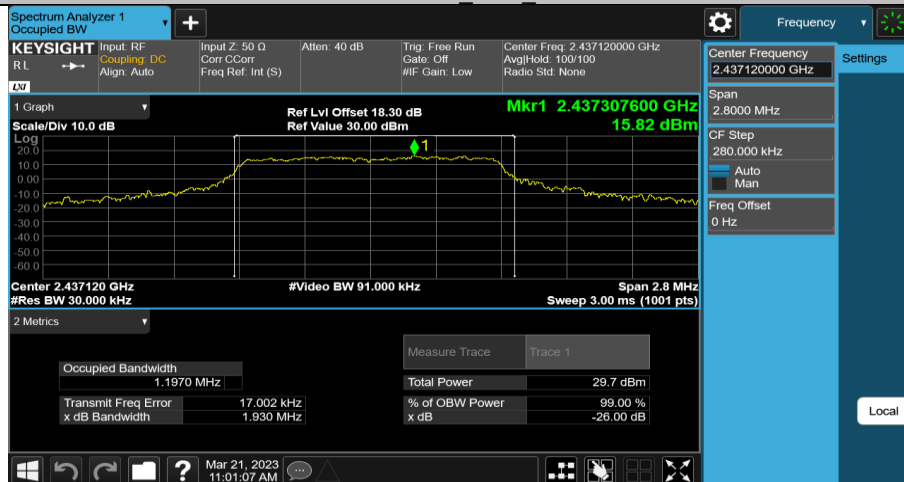
2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4MCA-MIMO	Ant1	2411.12	1.1842	2410.5388	2411.7230	---	PASS
		2437.12	1.1970	2436.5385	2437.7355	---	PASS
		2465.12	1.1870	2464.5412	2465.7282	---	PASS

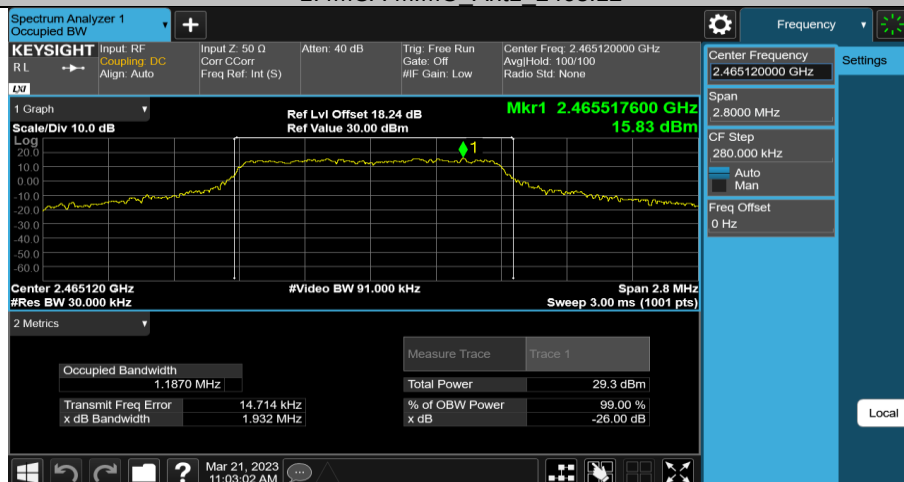
1.4MCA-MIMO Ant1 2411.12



1.4MCA-MIMO Ant1 2437.12

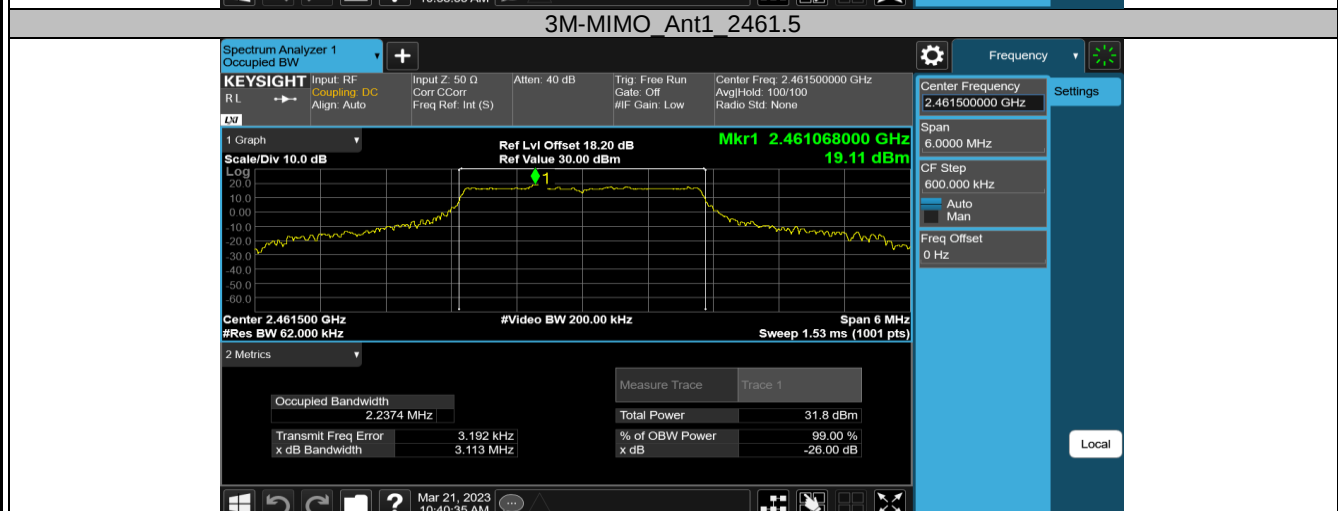
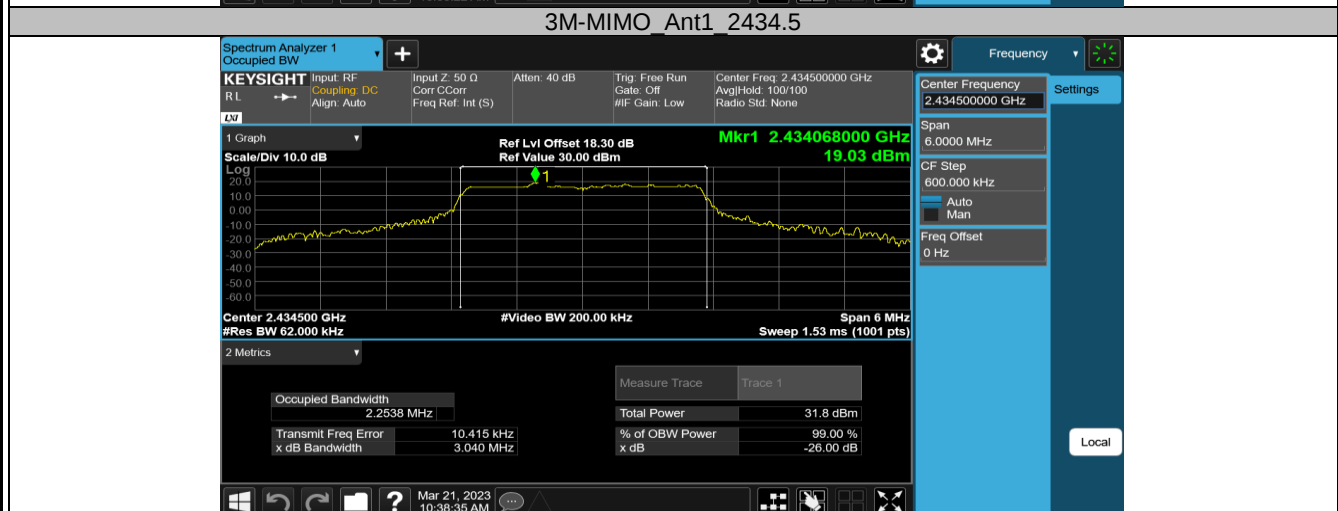
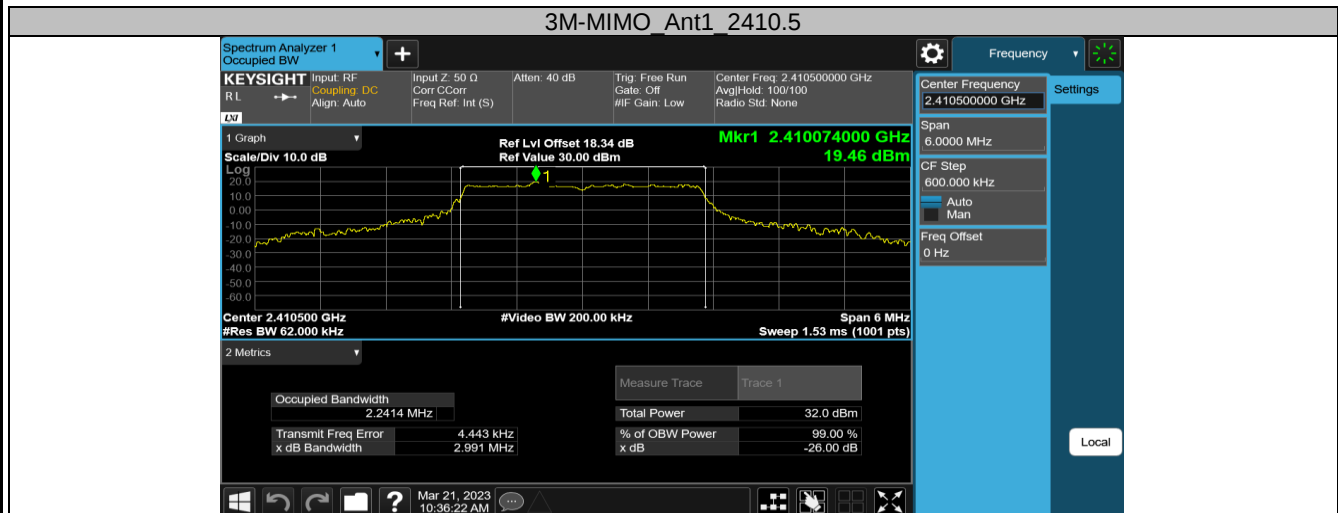


1.4MCA-MIMO Ant1 2465.12



2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M-MIMO	Ant1	2410.5	2.2414	2409.3837	2411.6251	---	PASS
		2434.5	2.2538	2433.3835	2435.6373	---	PASS
		2461.5	2.2374	2460.3845	2462.6219	---	PASS



2.4GHz SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3MCA-MIMO	Ant1	2413.2	2.2293	2412.0991	2414.3284	---	PASS
		2437.2	2.2447	2436.0931	2438.3378	---	PASS
		2464.2	2.2399	2463.0904	2465.3303	---	PASS

