

Appendix B: Test Results of 2.4GHz SDR

APPENDIX B: TEST RESULTS OF 2.4GHZ SDR.....	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
2.4GHz SDR, 1.4MHz BW.....	2
2.4GHz SDR, 1.4MHz BW CA mode	4
2.4GHz SDR, 3MHz BW.....	6
2.4GHz SDR, 3MHz BW CA mode.....	8
2.4GHz SDR, 10MHz BW.....	10
2.4GHz SDR, 20MHz BW.....	12
2.4GHz SDR, 40MHz BW.....	14
APPENDIX B.2: TEST RESULTS OF 6DB BANDWIDTH.....	16
2.4GHz SDR, 1.4MHz BW.....	16
2.4GHz SDR, 1.4MHz BW CA mode	18
2.4GHz SDR, 3MHz BW.....	20
2.4GHz SDR, 3MHz BW CA mode.....	22
2.4GHz SDR, 10MHz BW.....	24
2.4GHz SDR, 20MHz BW.....	26
2.4GHz SDR, 40MHz BW.....	28
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH.....	30
2.4GHz SDR, 1.4MHz BW.....	30
2.4GHz SDR, 1.4MHz BW CA mode	32
2.4GHz SDR, 3MHz BW.....	34
2.4GHz SDR, 3MHz BW CA mode.....	36
2.4GHz SDR, 10MHz BW.....	38
2.4GHz SDR, 20MHz BW.....	40
2.4GHz SDR, 40MHz BW.....	42
APPENDIX B.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH.....	44
2.4GHz SDR, 1.4MHz BW.....	44
2.4GHz SDR, 1.4MHz BW CA mode	48
2.4GHz SDR, 3MHz BW.....	52
2.4GHz SDR, 3MHz BW CA mode.....	56
2.4GHz SDR, 10MHz BW.....	60
2.4GHz SDR, 20MHz BW.....	64
2.4GHz SDR, 40MHz BW.....	68
2.4GHz SDR, 1.4MHz BW Bandedge.....	72
2.4GHz SDR, 1.4MHz BW CA mode Bandedge	73
2.4GHz SDR, 3MHz BW Bandedge.....	74
2.4GHz SDR, 3MHz BW CA mode Bandedge.....	75
2.4GHz SDR, 10MHz BW Bandedge.....	76
2.4GHz SDR, 20MHz BW Bandedge.....	77
2.4GHz SDR, 40MHz BW Bandedge.....	78
APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	79
30MHz - 1GHz (Worst case)	79
1GHz - 18GHz.....	81
APPENDIX B.6: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	209

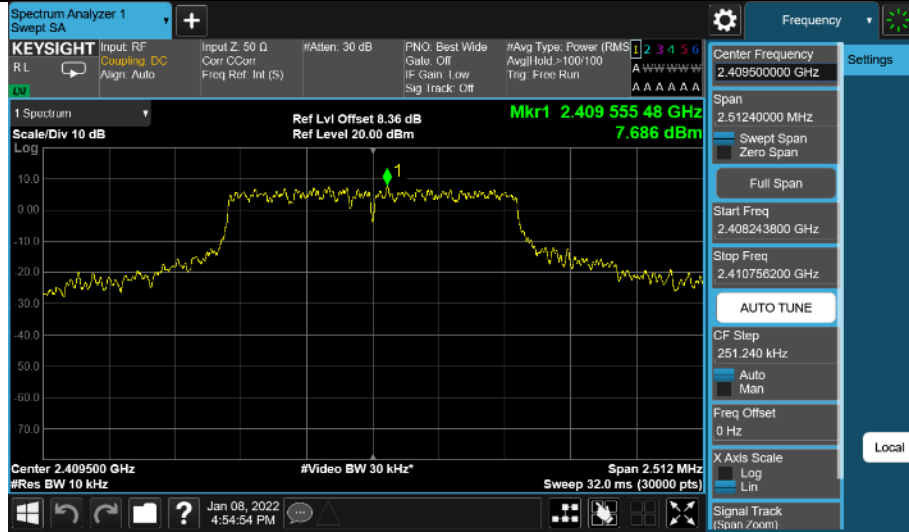
Note: All testing were carried out on SISO mode and MIMO mode, but only the worst case was presented in this report.

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

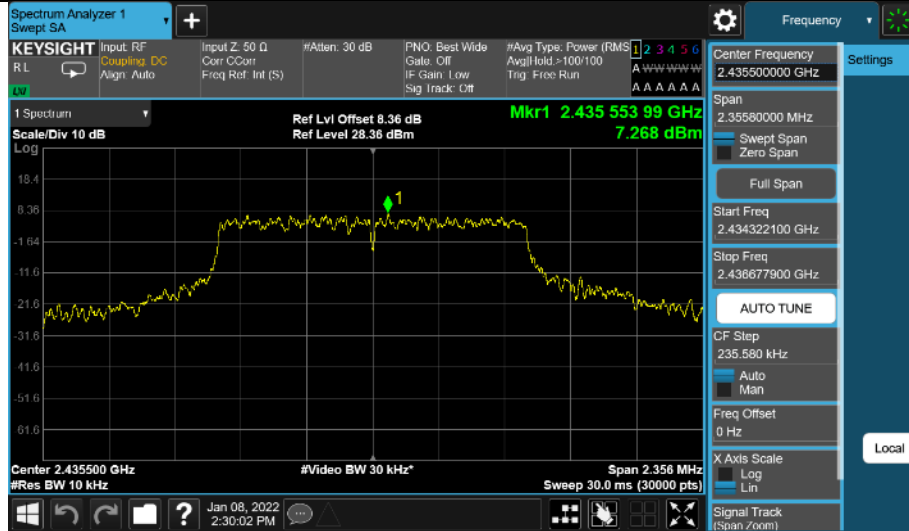
2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
1.4M	Ant1	2409.5	7.69	≤8	PASS
		2435.5	7.27	≤8	PASS
		2463.5	7.35	≤8	PASS

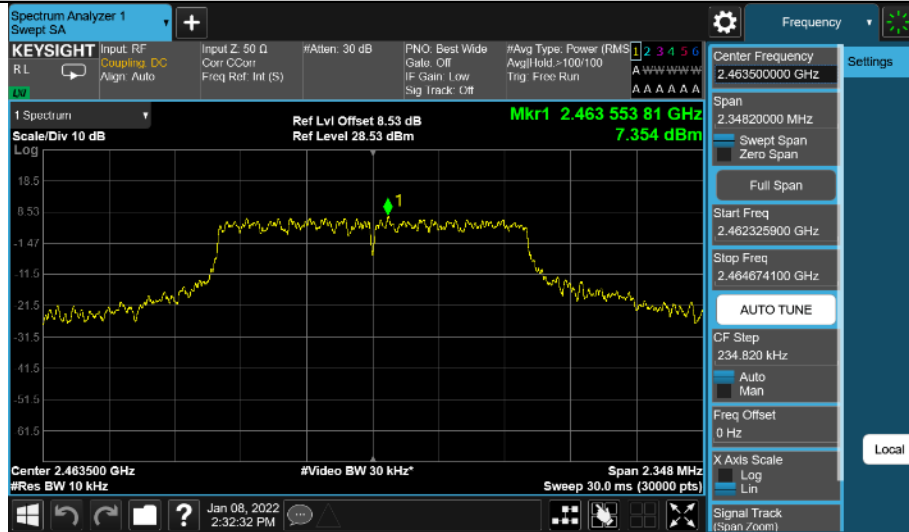
1.4M_Ant1_2409.5



1.4M_Ant1_2435.5

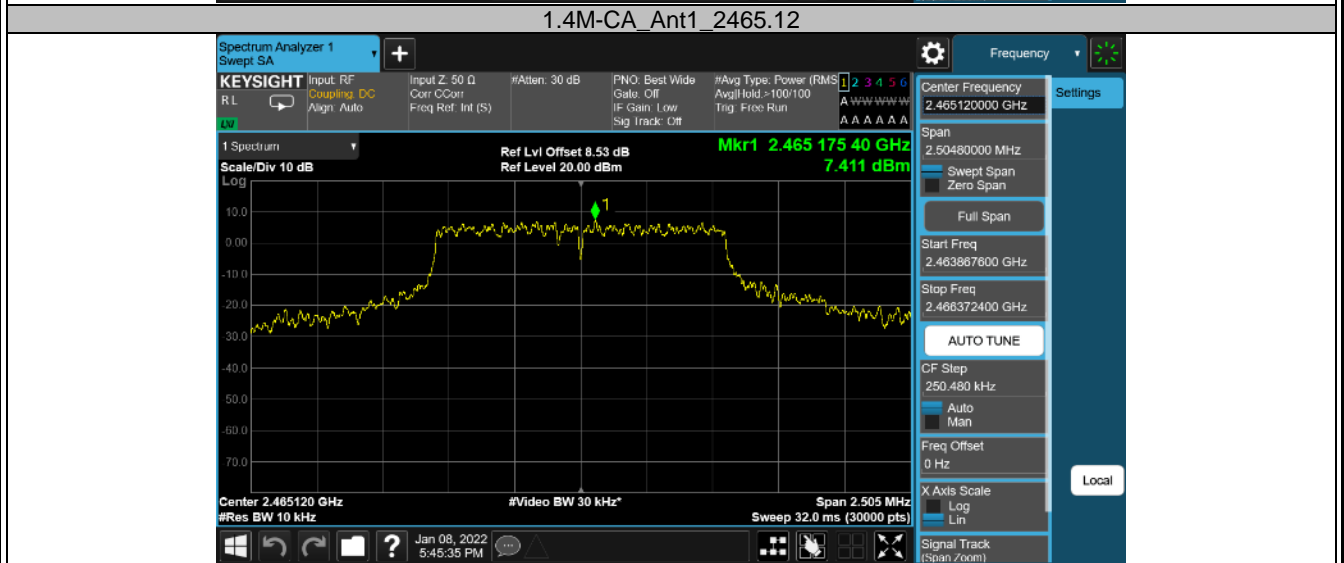
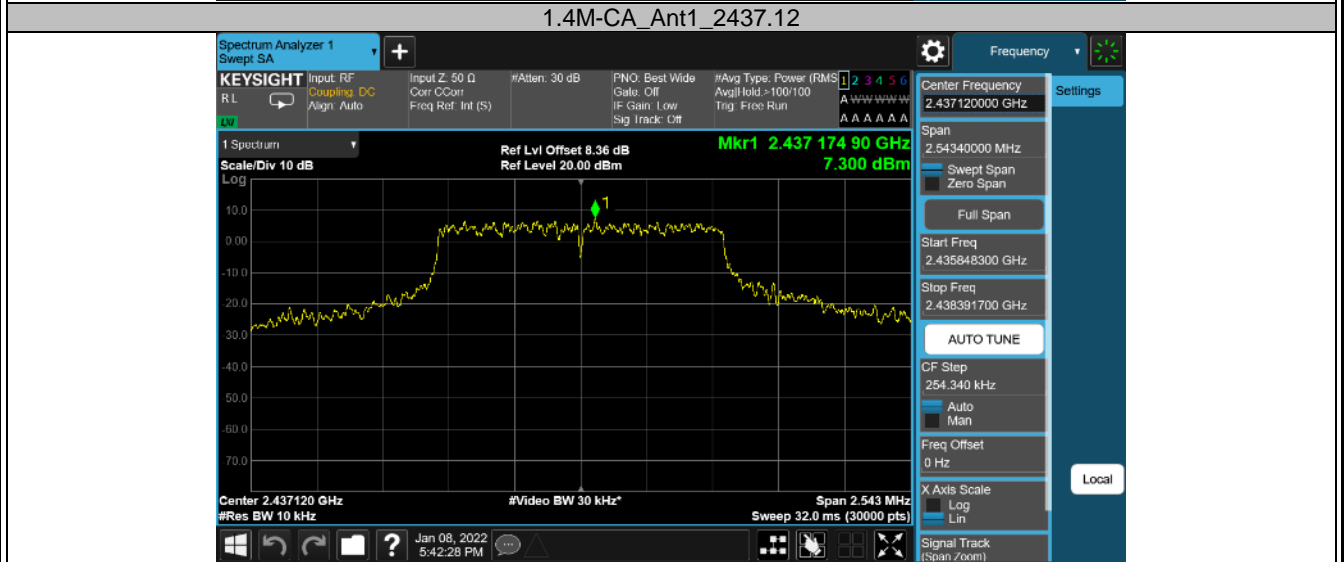
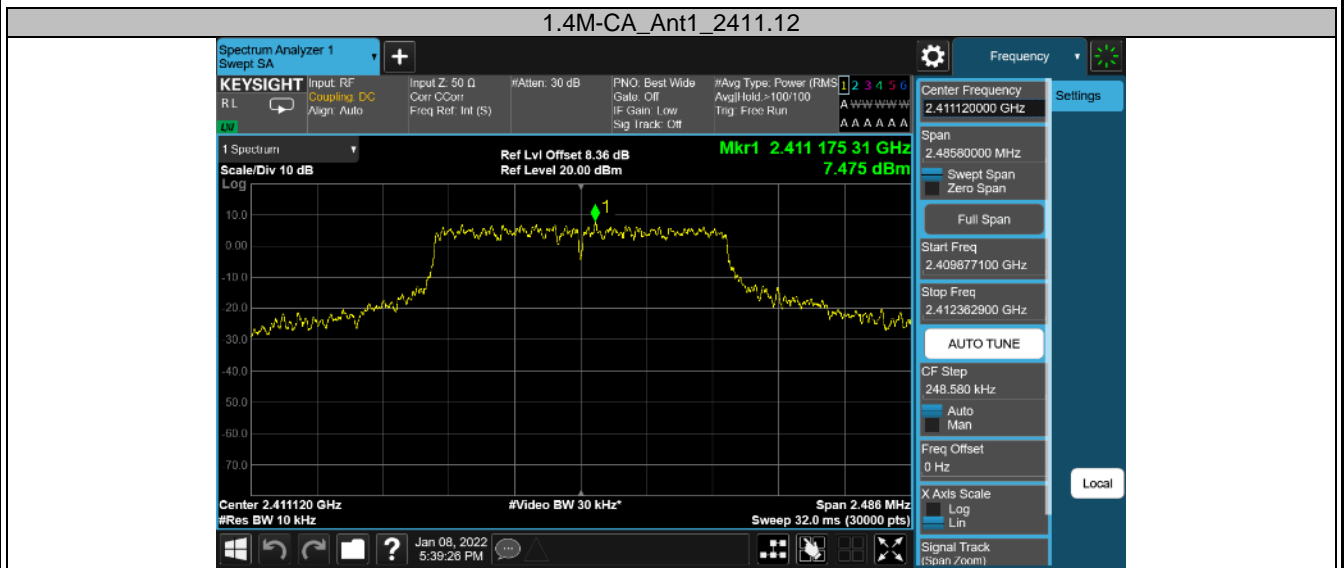


1.4M_Ant1_2463.5



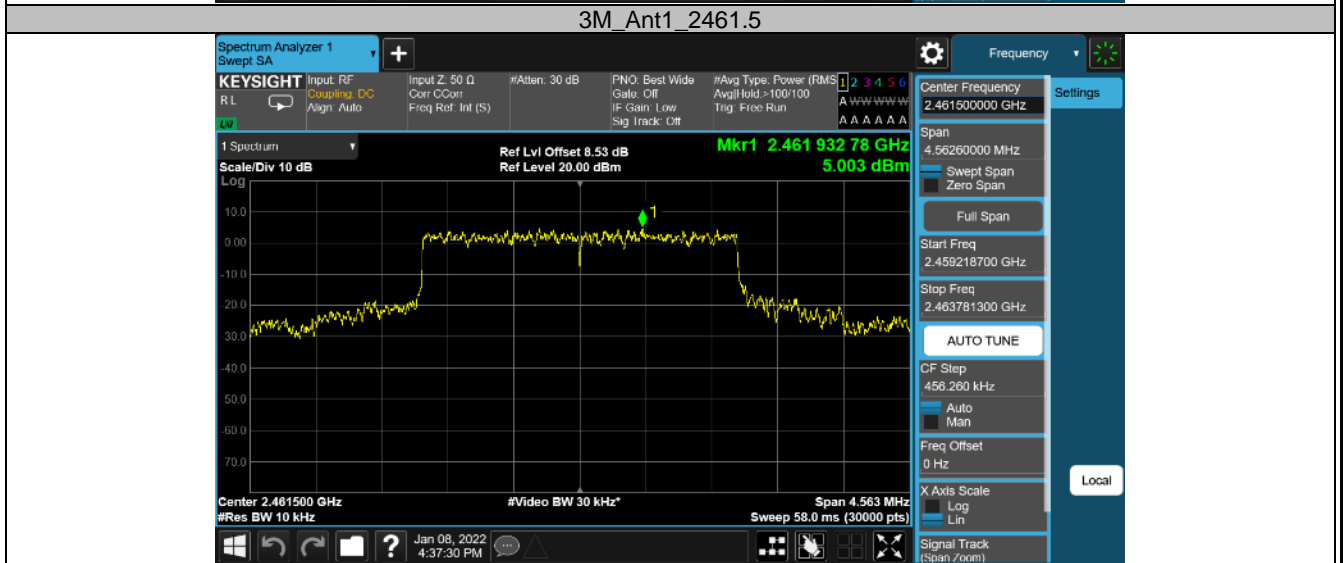
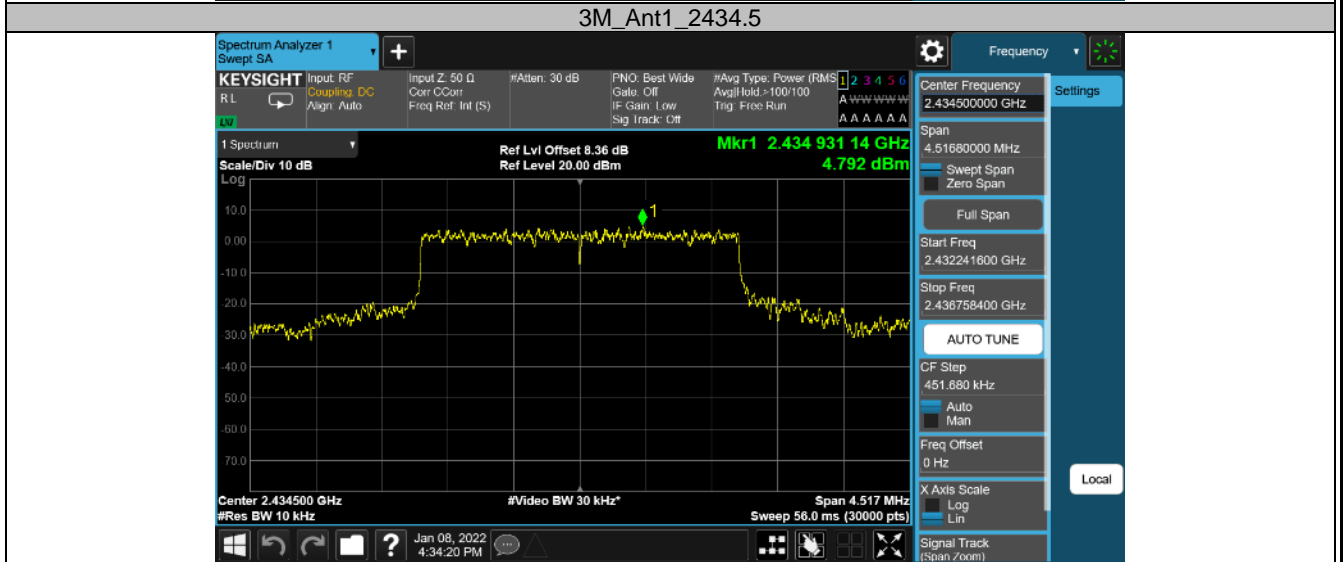
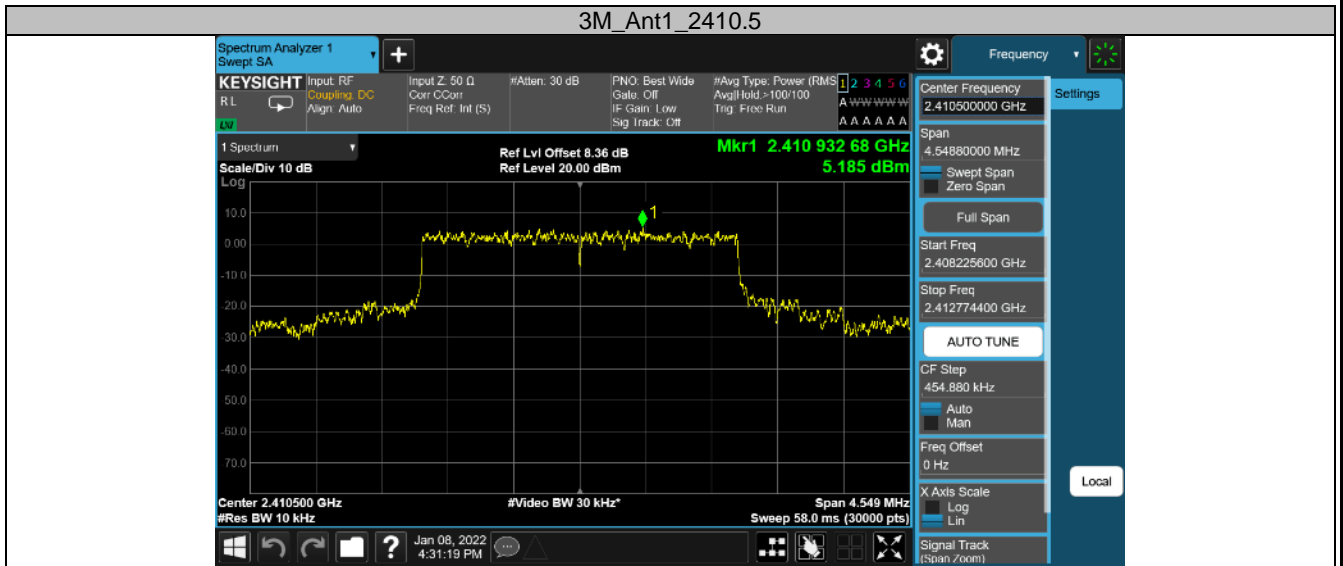
2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
1.4M-CA	Ant1	2411.12	7.48	≤8	PASS
		2437.12	7.30	≤8	PASS
		2465.12	7.41	≤8	PASS



2.4GHz SDR, 3MHz BW

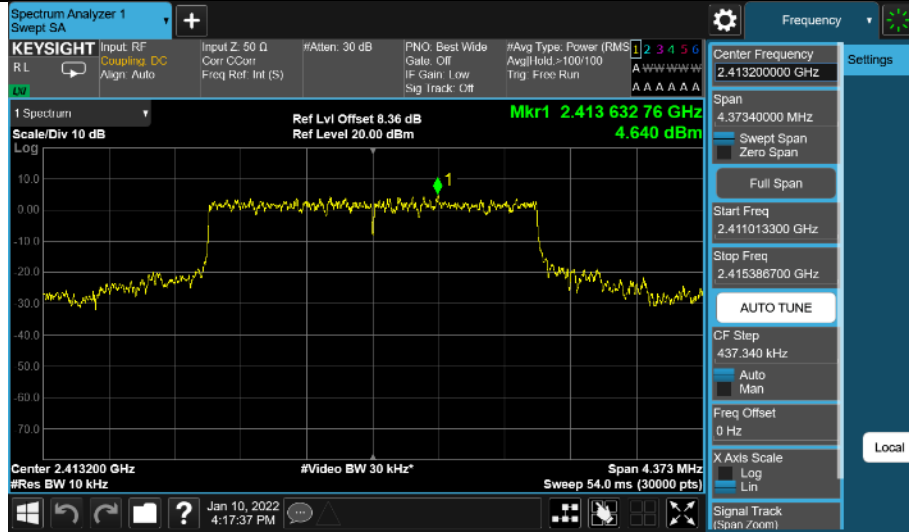
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
3M	Ant1	2410.5	5.19	≤8	PASS
		2434.5	4.79	≤8	PASS
		2461.5	5.00	≤8	PASS



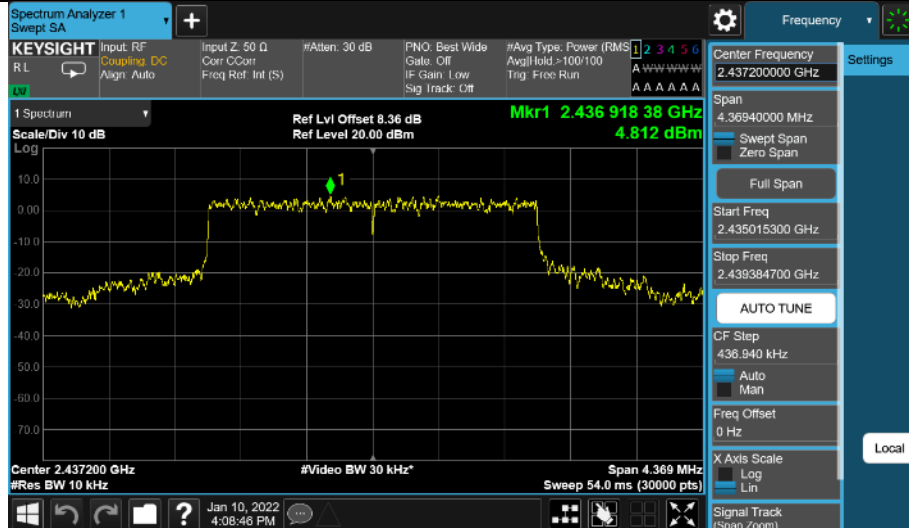
2.4GHz SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
3M-CA	Ant1	2413.2	4.64	≤8	PASS
		2437.2	4.81	≤8	PASS
		2464.2	3.59	≤8	PASS

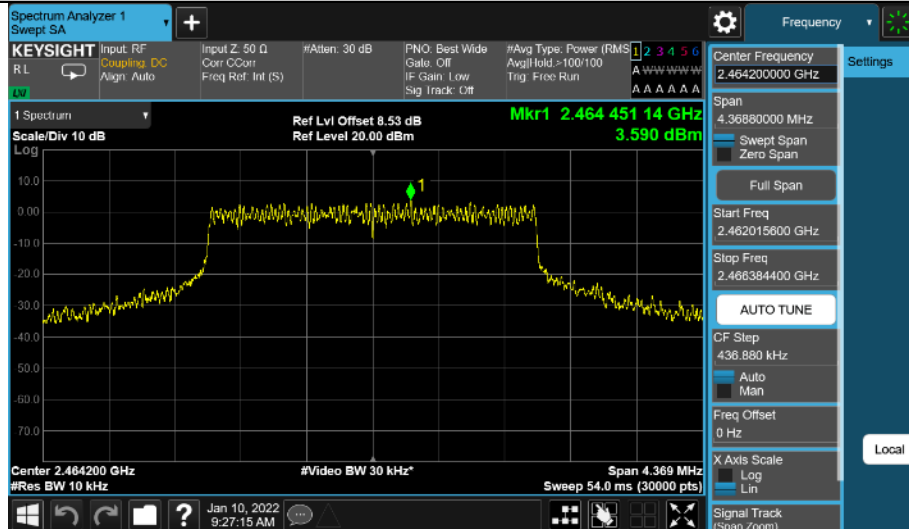
3M-CA_Ant1_2413.2



3M-CA_Ant1_2437.2

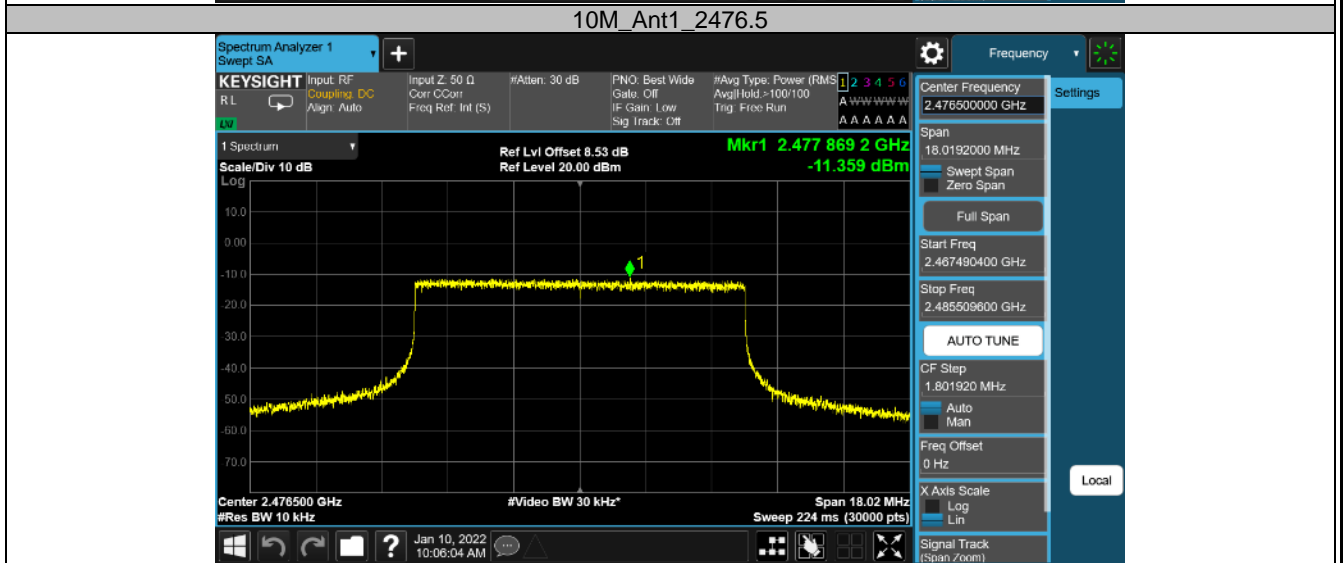
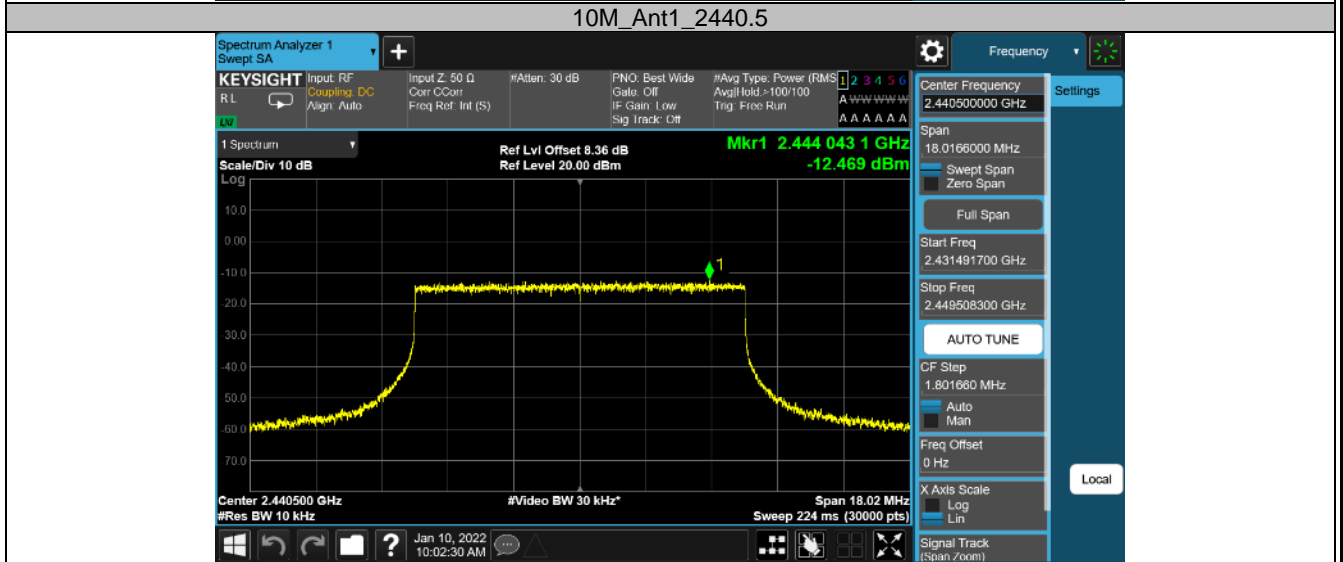
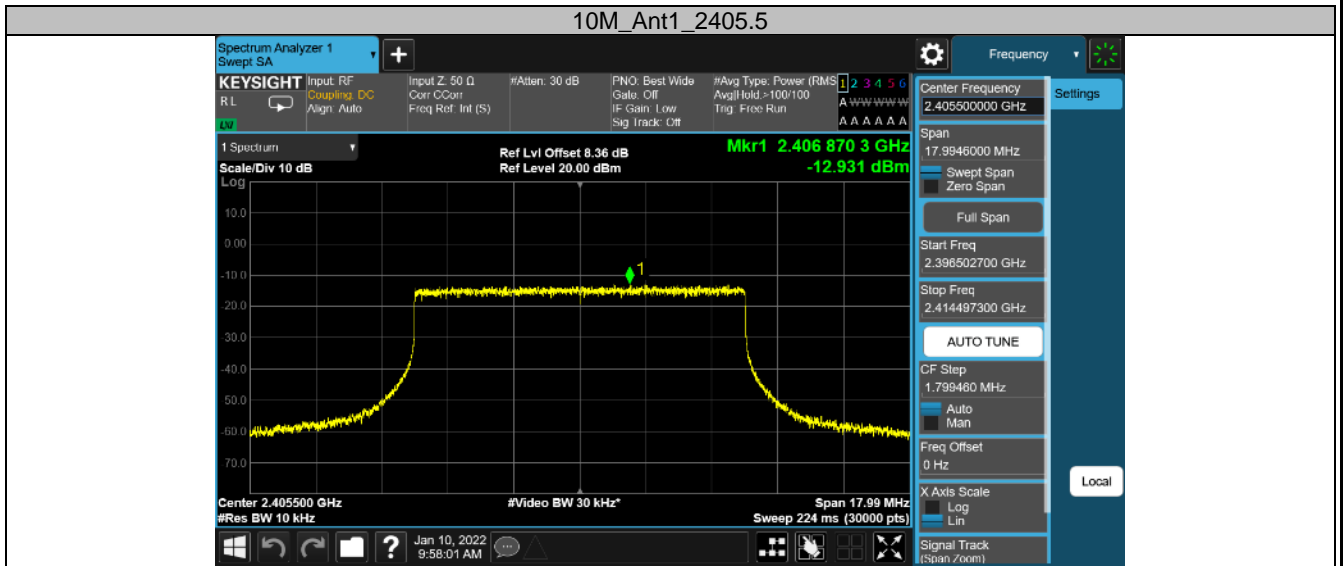


3M-CA_Ant1_2464.2



2.4GHz SDR, 10MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
10M	Ant1	2405.5	-12.93	≤8	PASS
		2440.5	-12.47	≤8	PASS
		2476.5	-11.36	≤8	PASS



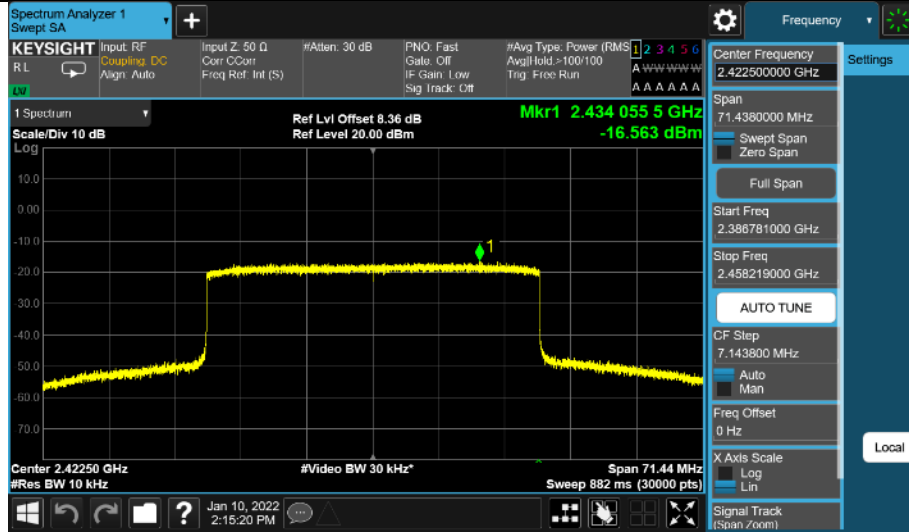
2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
20M	Ant1	2410.5	-15.85	≤8	PASS
		2441.5	-14.70	≤8	PASS
		2472.5	-13.92	≤8	PASS

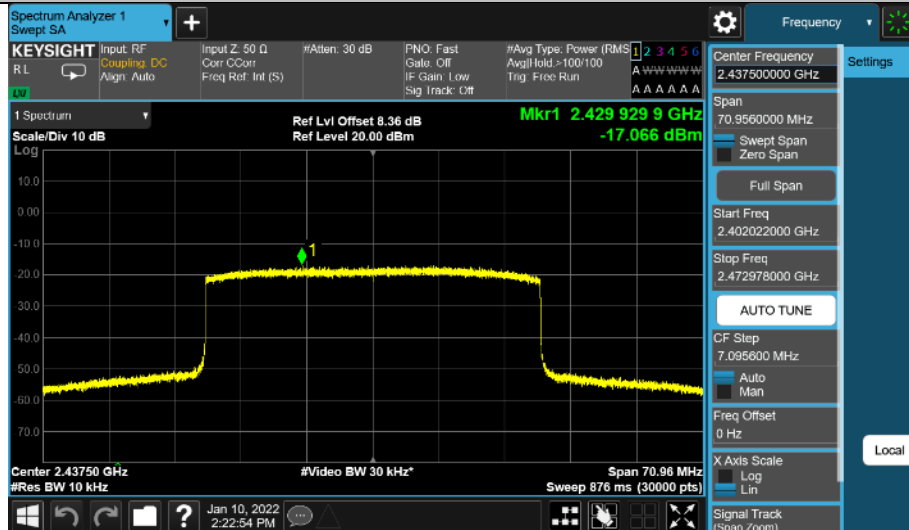
2.4GHz SDR, 40MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
40M	Ant1	2422.5	-16.56	≤8	PASS
		2437.5	-17.07	≤8	PASS
		2452.5	-16.71	≤8	PASS

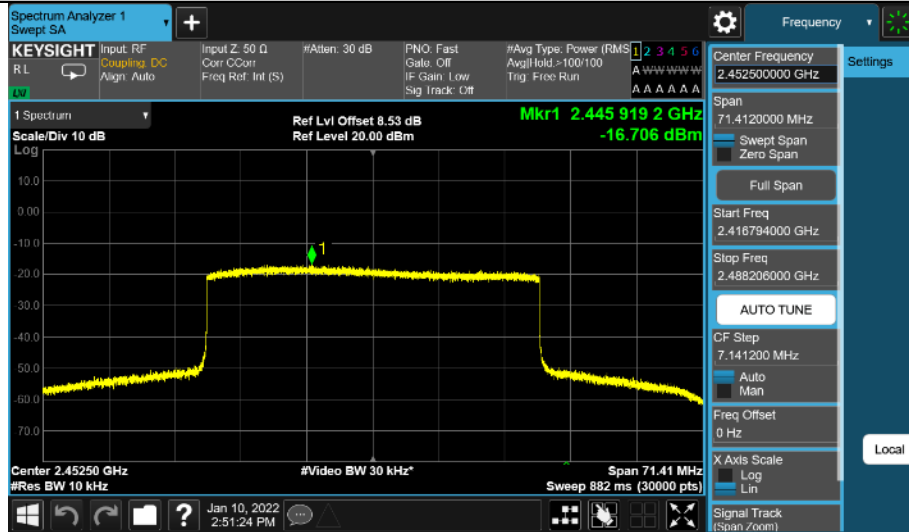
40M_Ant1_2422.5



40M_Ant1_2437.5



40M_Ant1_2452.5

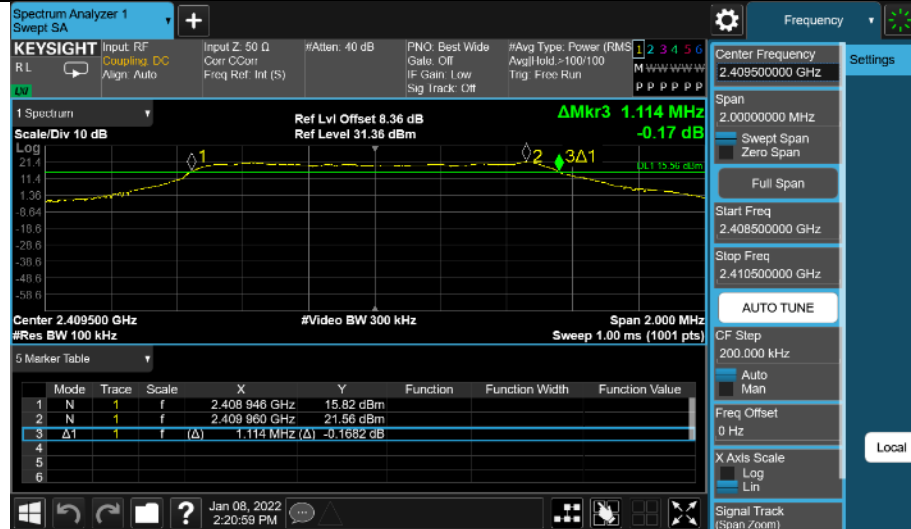


Appendix B.2: Test Results of 6dB Bandwidth

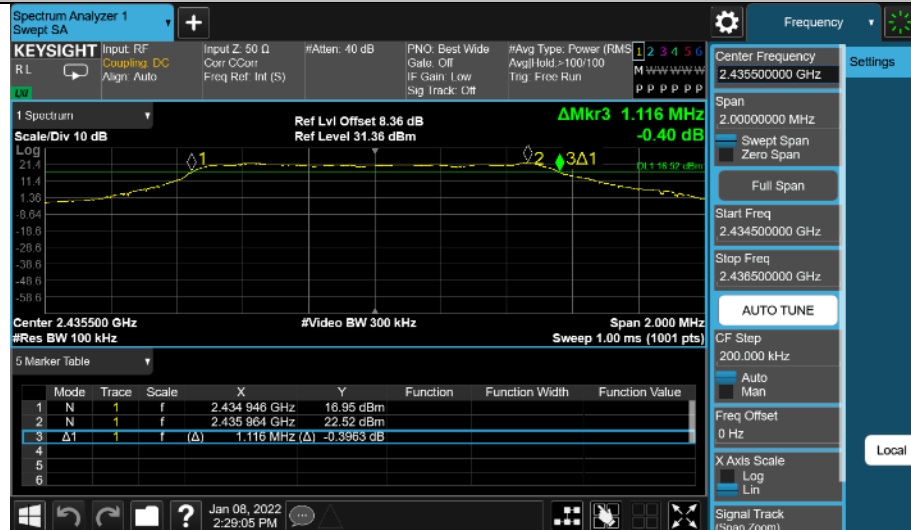
2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M	Ant1	2409.5	1.114	2408.946	2410.060	0.5	PASS
		2435.5	1.116	2434.946	2436.062	0.5	PASS
		2463.5	1.120	2462.942	2464.062	0.5	PASS

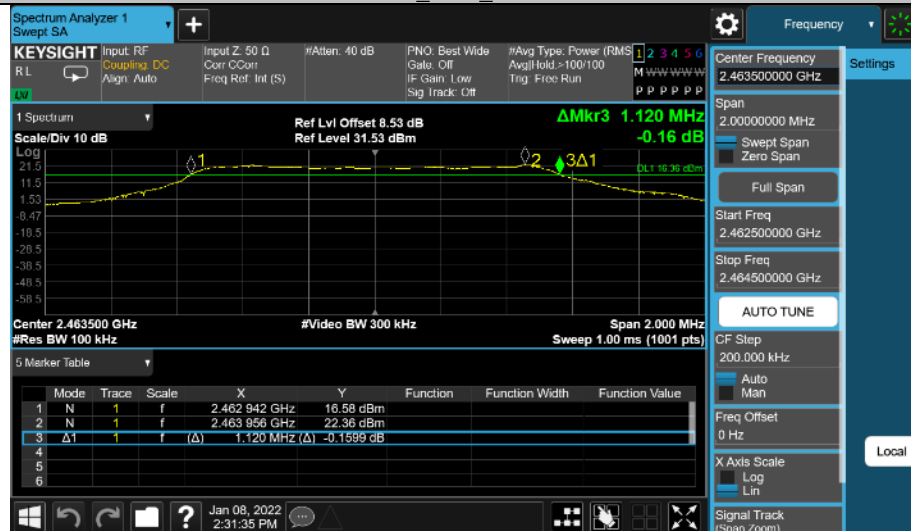
1.4M_Ant1_2409.5



1.4M_Ant1_2435.5



1.4M_Ant1_2463.5



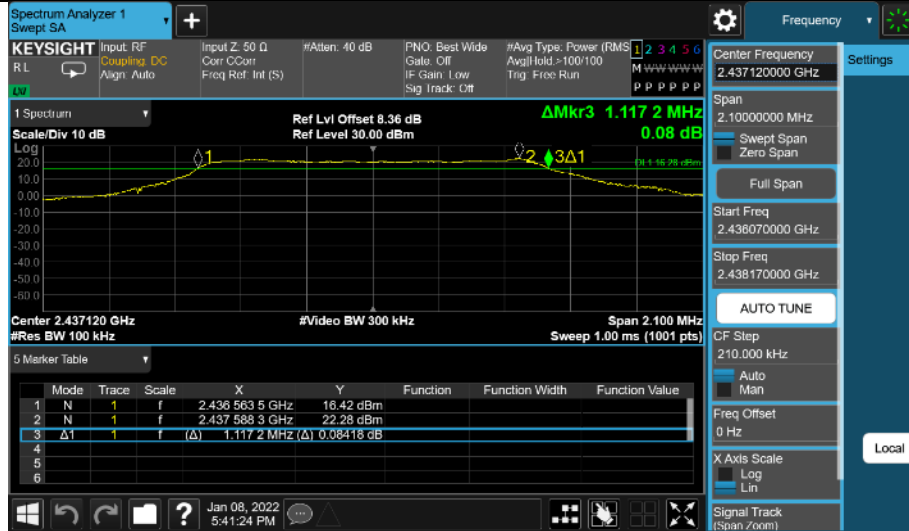
2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-CA	Ant1	2411.12	1.115	2410.566	2411.681	0.5	PASS
		2437.12	1.117	2436.564	2437.681	0.5	PASS
		2465.12	1.113	2464.564	2465.677	0.5	PASS

1.4M-CA_Ant1_2411.12



1.4M-CA_Ant1_2437.12



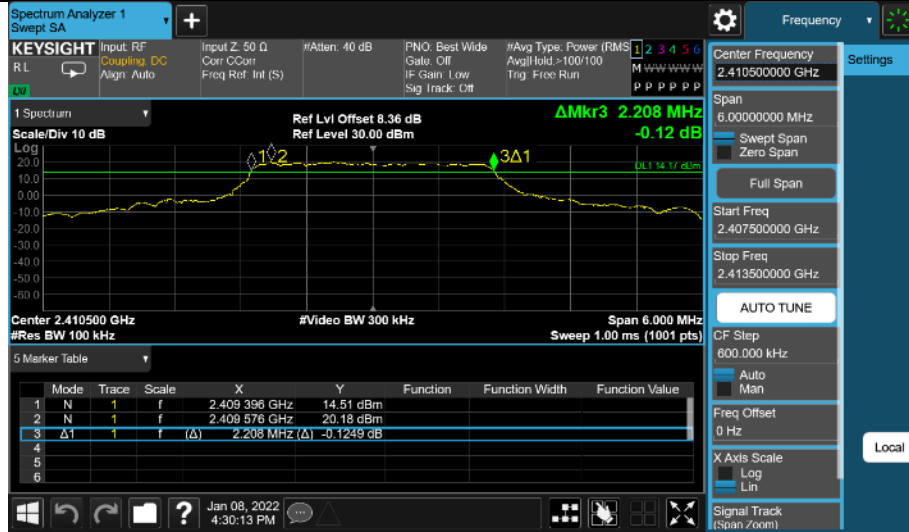
1.4M-CA_Ant1_2465.12



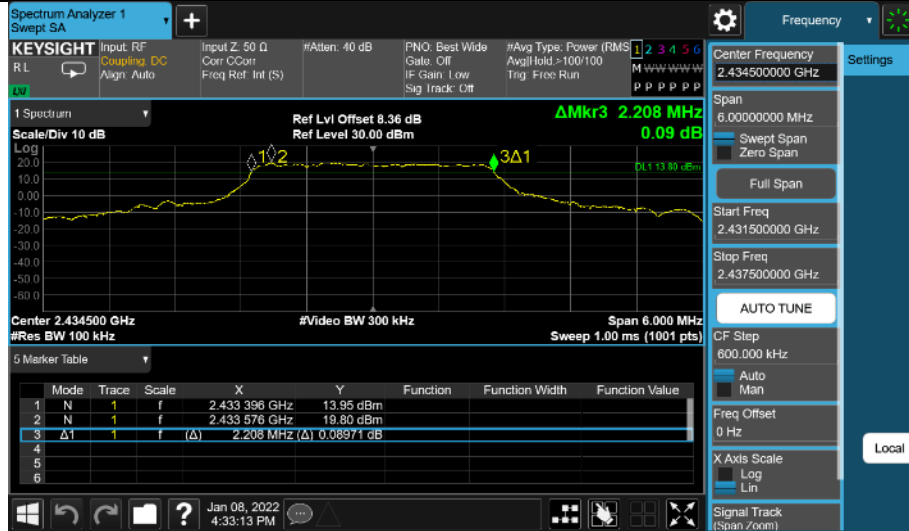
2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M	Ant1	2410.5	2.208	2409.396	2411.604	0.5	PASS
		2434.5	2.208	2433.396	2435.604	0.5	PASS
		2461.5	2.208	2460.396	2462.604	0.5	PASS

3M_Ant1_2410.5



3M_Ant1_2434.5



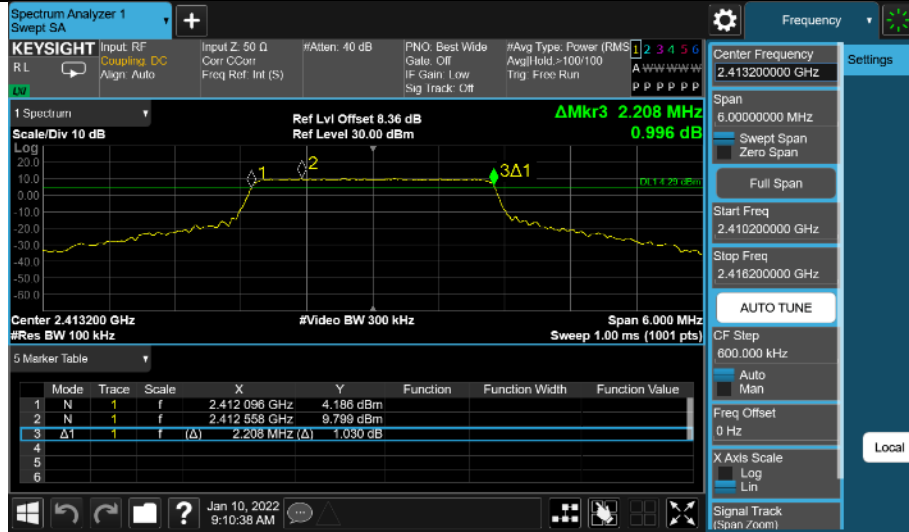
3M_Ant1_2461.5



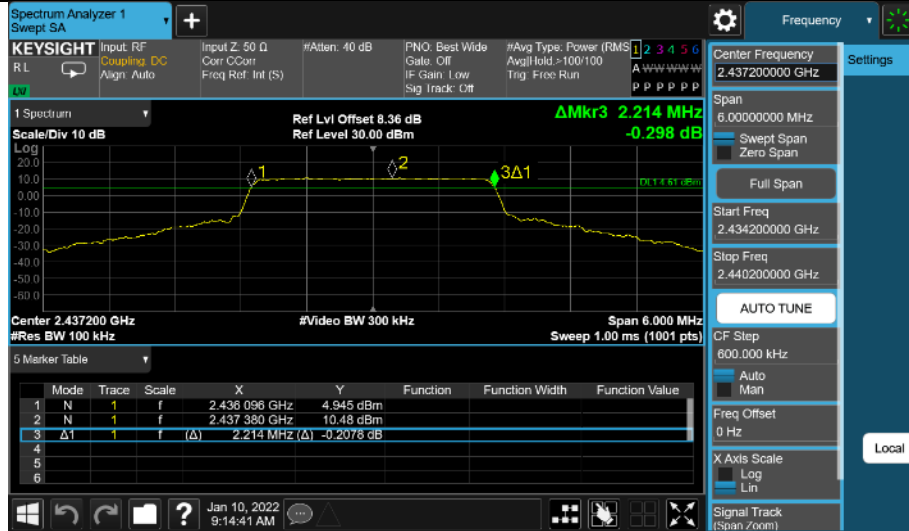
2.4GHz SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M-CA	Ant1	2413.2	2.208	2412.096	2414.304	0.5	PASS
		2437.2	2.214	2436.096	2438.310	0.5	PASS
		2464.2	2.208	2463.096	2465.304	0.5	PASS

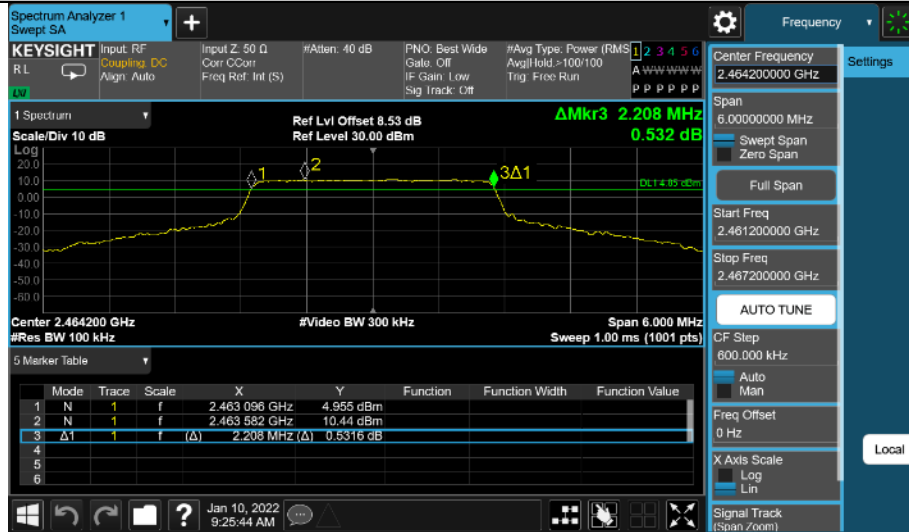
3M-CA_Ant1_2413.2



3M-CA_Ant1_2437.2

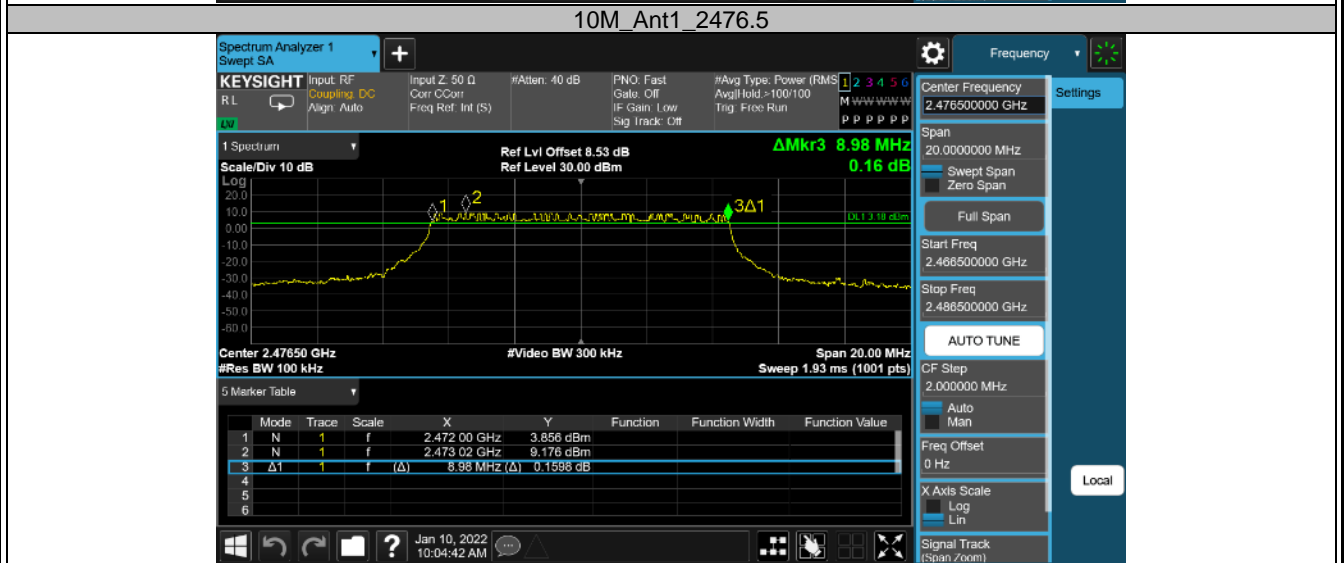
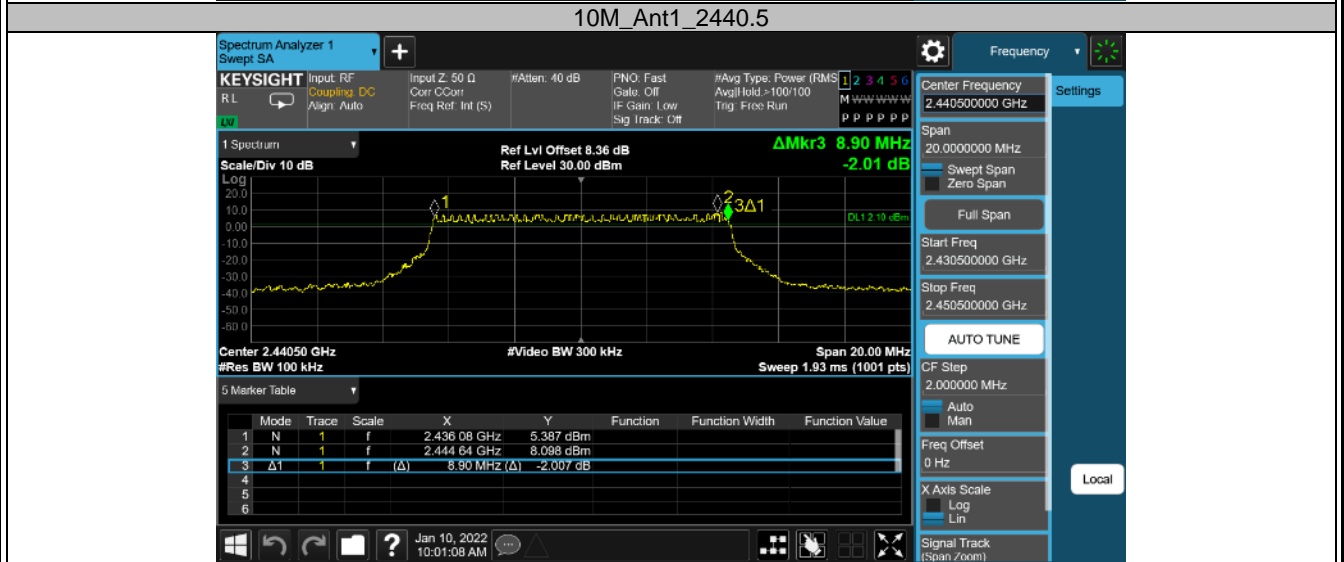
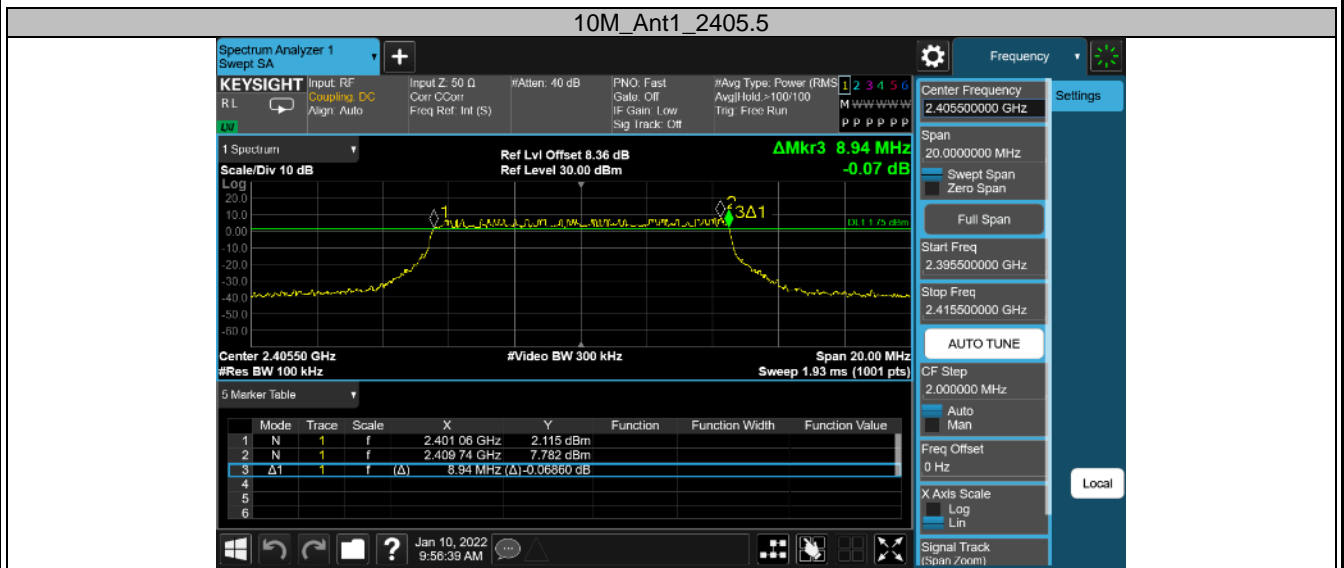


3M-CA_Ant1_2464.2



2.4GHz SDR, 10MHz BW

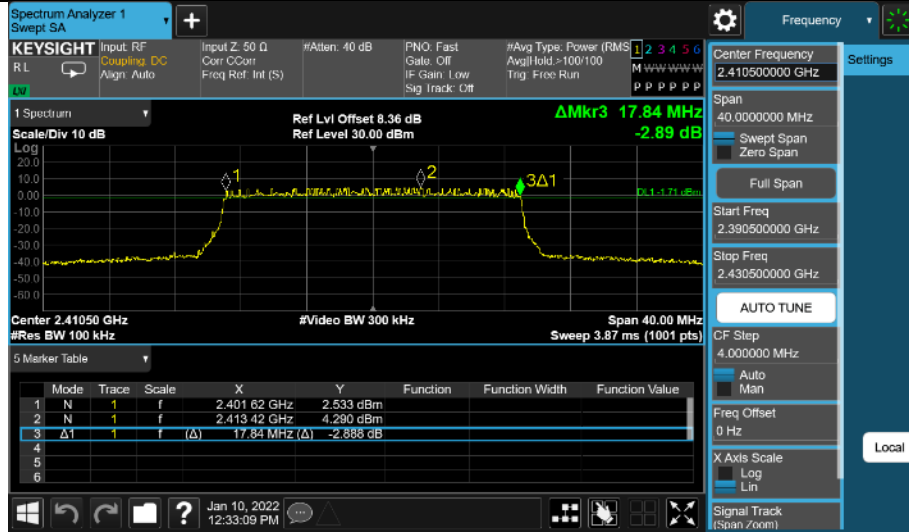
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	2405.5	8.940	2401.060	2410.000	0.5	PASS
		2440.5	8.900	2436.080	2444.980	0.5	PASS
		2476.5	8.980	2472.000	2480.980	0.5	PASS



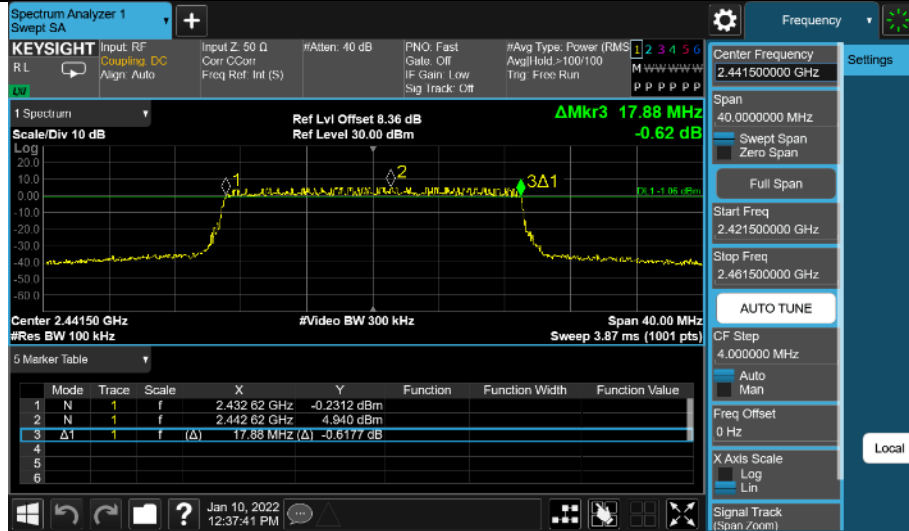
2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20M	Ant1	2410.5	17.840	2401.620	2419.460	0.5	PASS
		2441.5	17.880	2432.620	2450.500	0.5	PASS
		2472.5	17.800	2463.660	2481.460	0.5	PASS

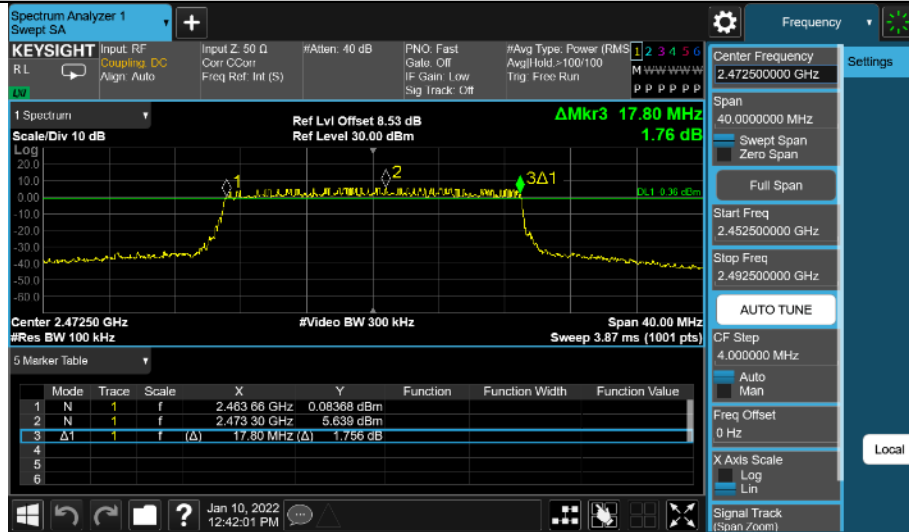
20M_Ant1_2410.5



20M_Ant1_2441.5



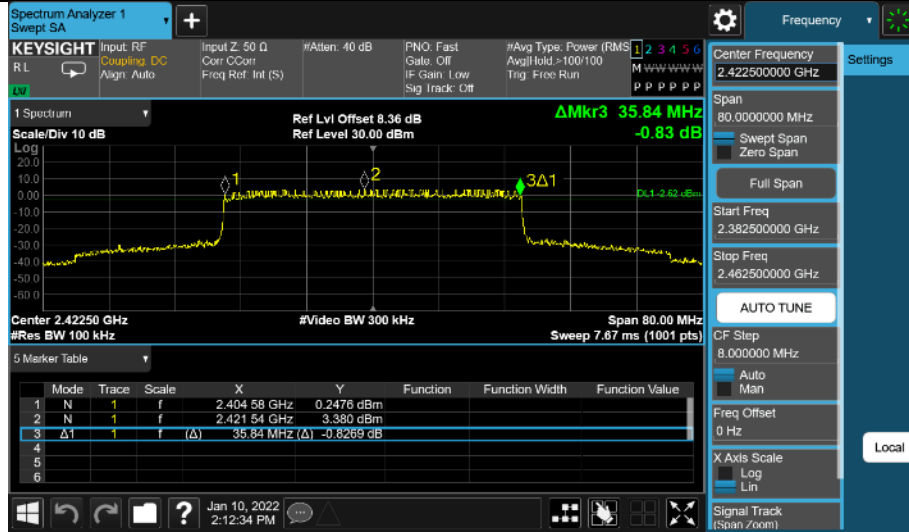
20M_Ant1_2472.5



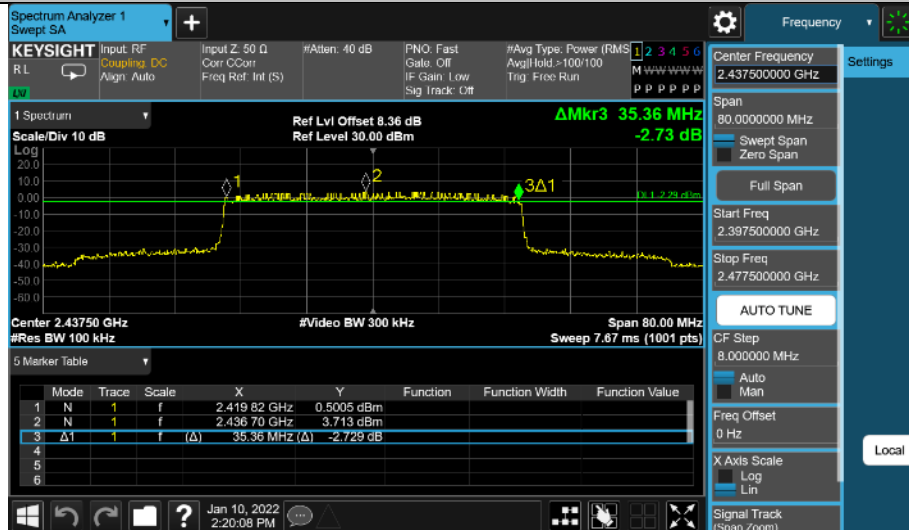
2.4GHz SDR, 40MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40M	Ant1	2422.5	35.840	2404.580	2440.420	0.5	PASS
		2437.5	35.360	2419.820	2455.180	0.5	PASS
		2452.5	35.760	2434.580	2470.340	0.5	PASS

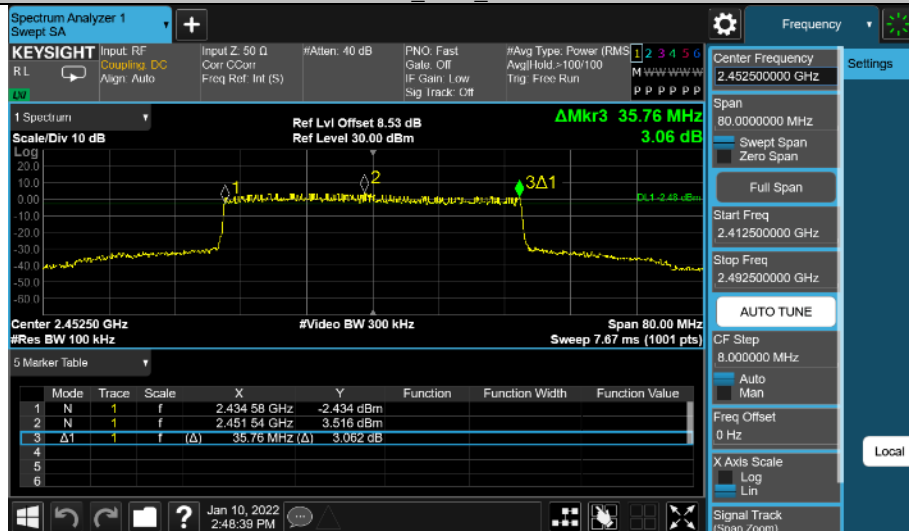
40M_Ant1_2422.5



40M_Ant1_2437.5



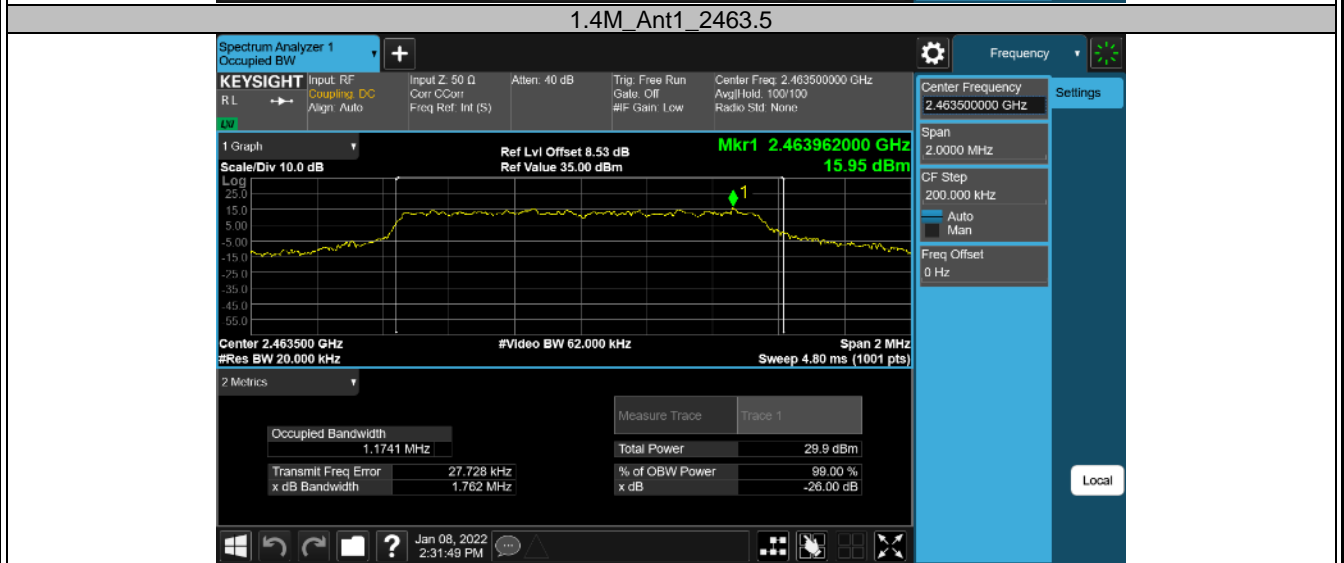
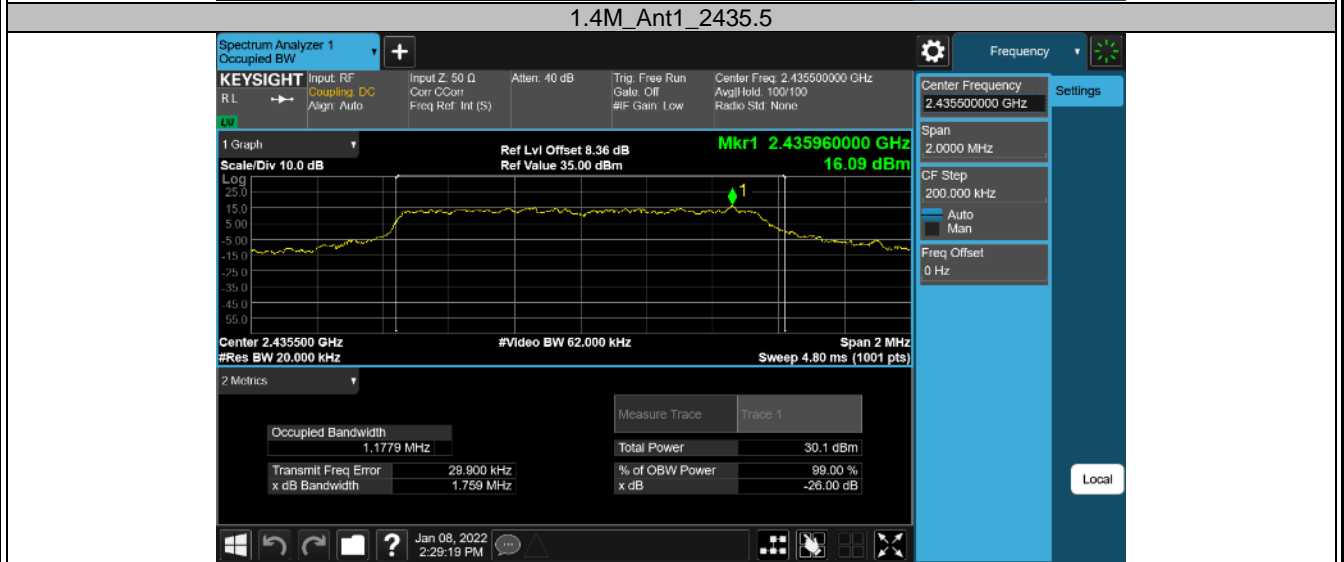
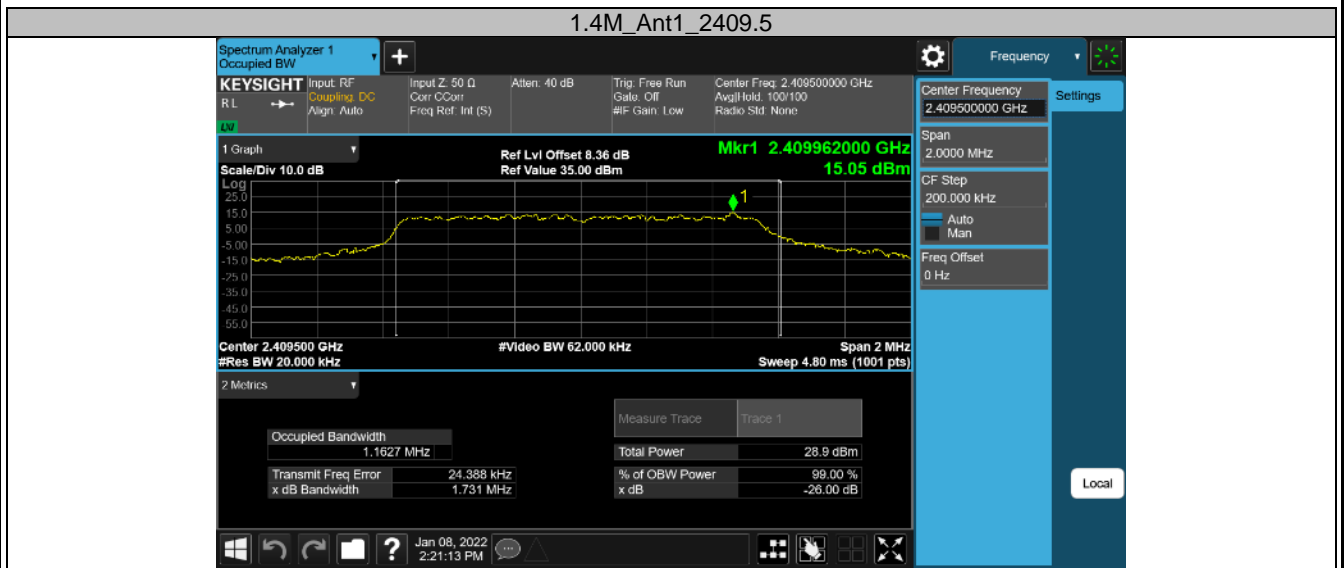
40M_Ant1_2452.5



Appendix B.3: Test Results of 99% Bandwidth

2.4GHz SDR, 1.4MHz BW

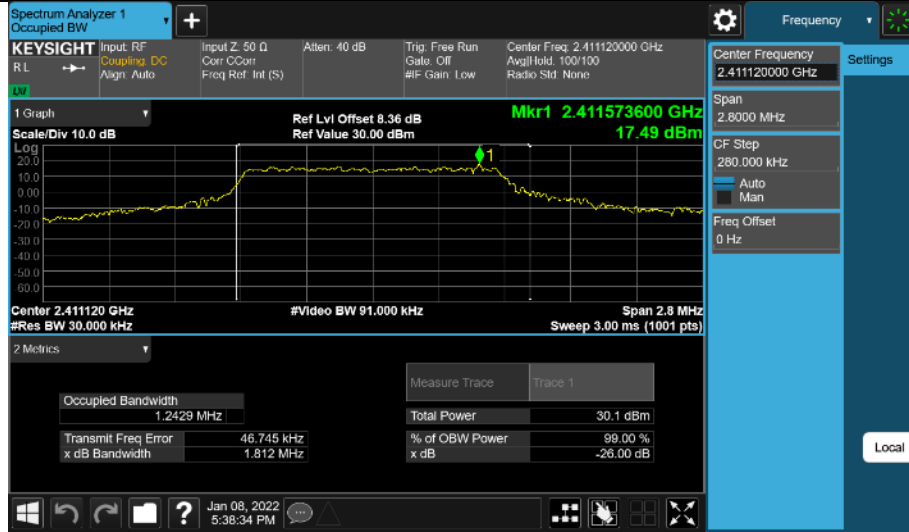
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M	Ant1	2409.5	1.1627	2408.943	2410.106	---	PASS
		2435.5	1.1779	2434.941	2436.119	---	PASS
		2463.5	1.1741	2462.941	2464.115	---	PASS



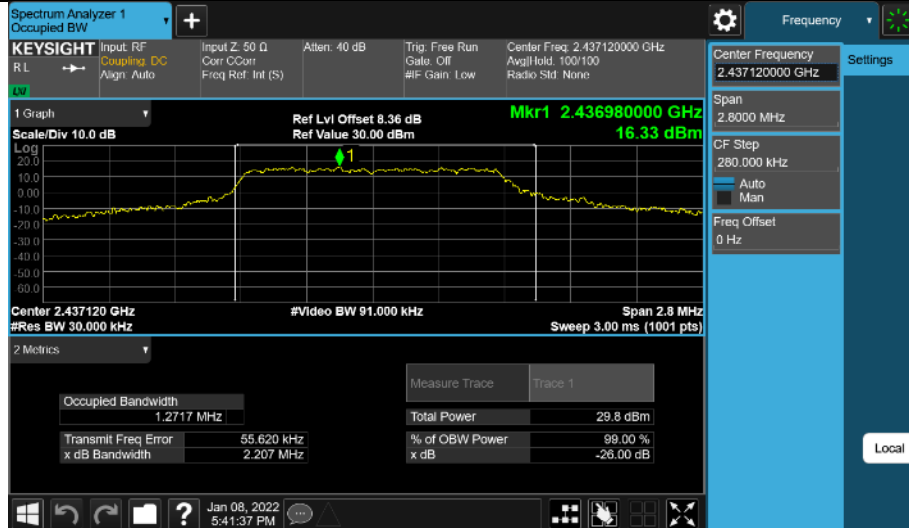
2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-CA	Ant1	2411.12	1.2429	2410.545	2411.788	---	PASS
		2437.12	1.2717	2436.540	2437.811	---	PASS
		2465.12	1.2524	2464.542	2465.795	---	PASS

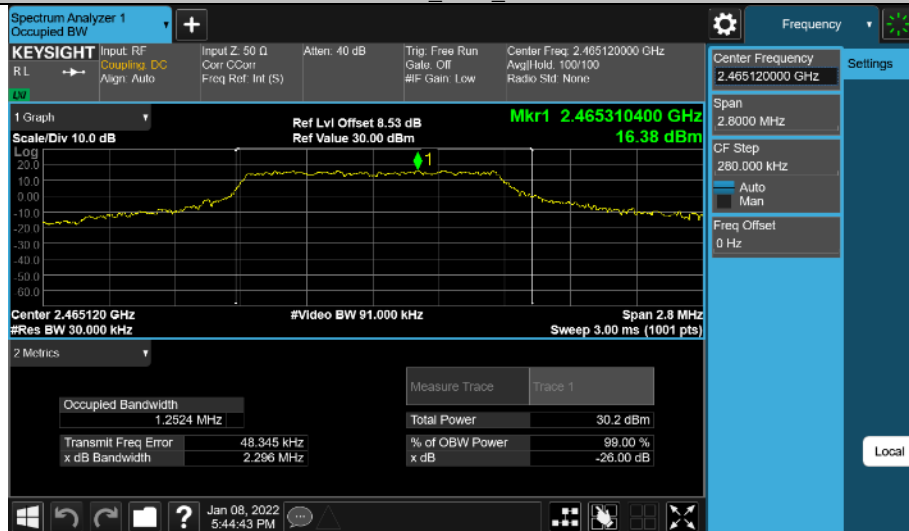
1.4M-CA_Ant1_2411.12



1.4M-CA_Ant1_2437.12

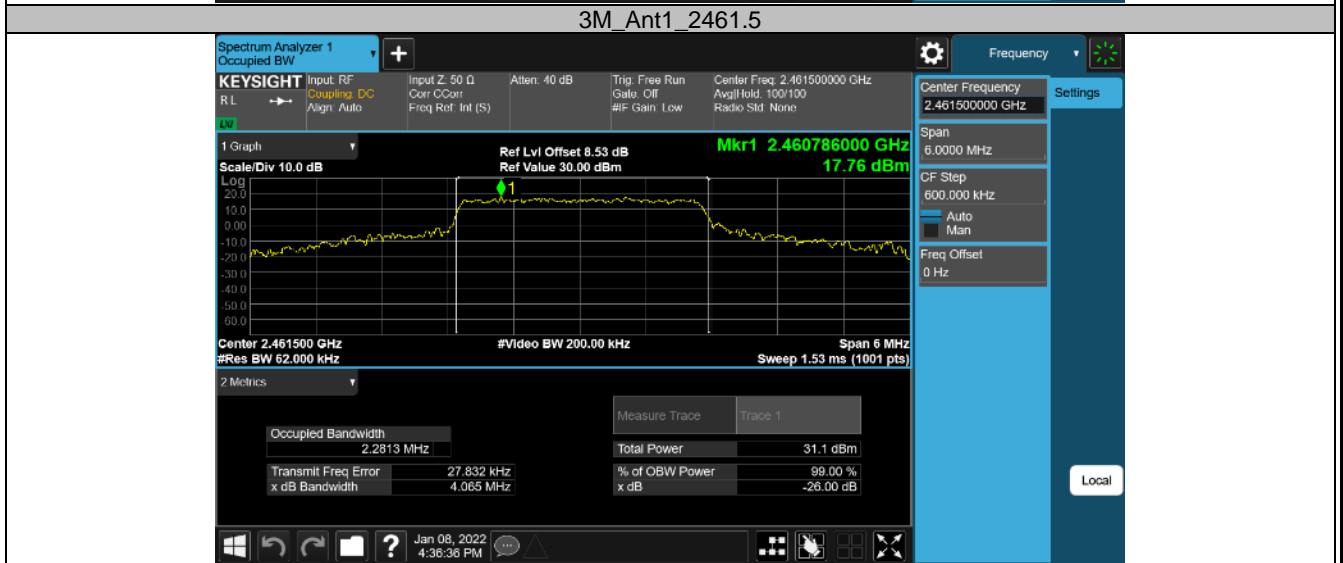
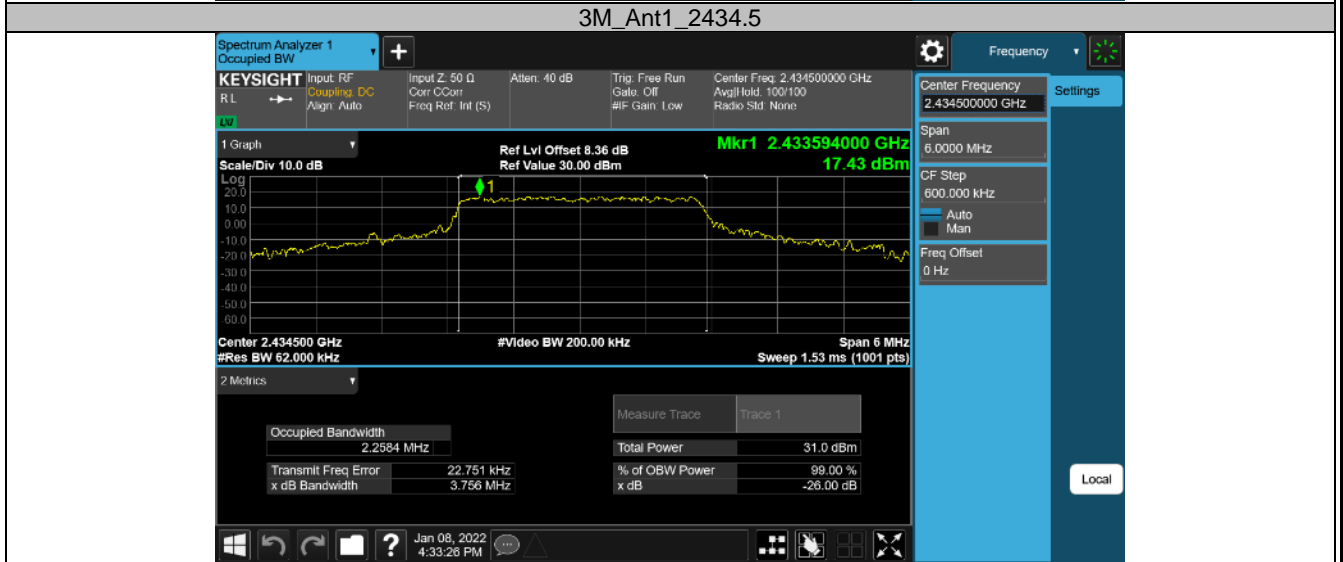
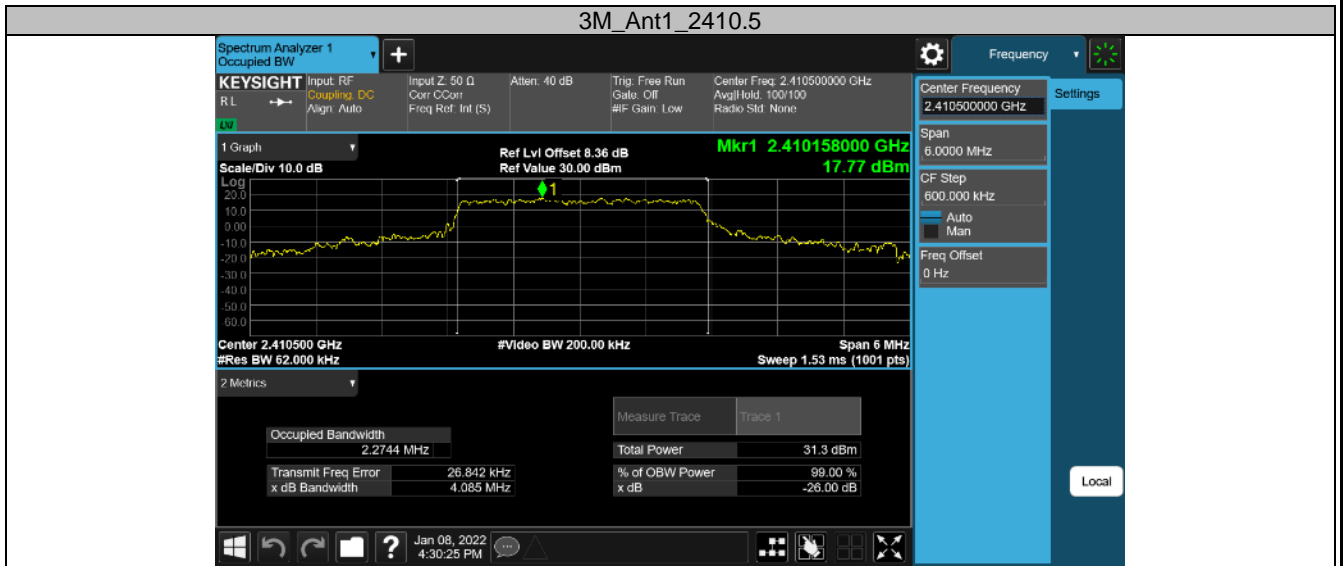


1.4M-CA_Ant1_2465.12



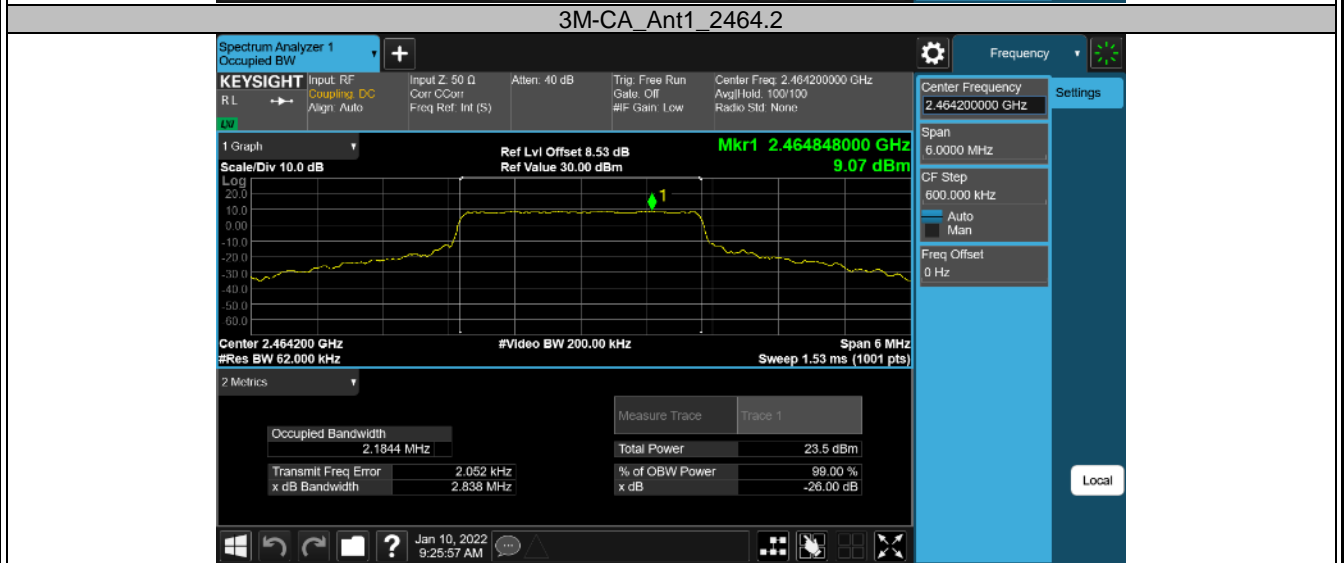
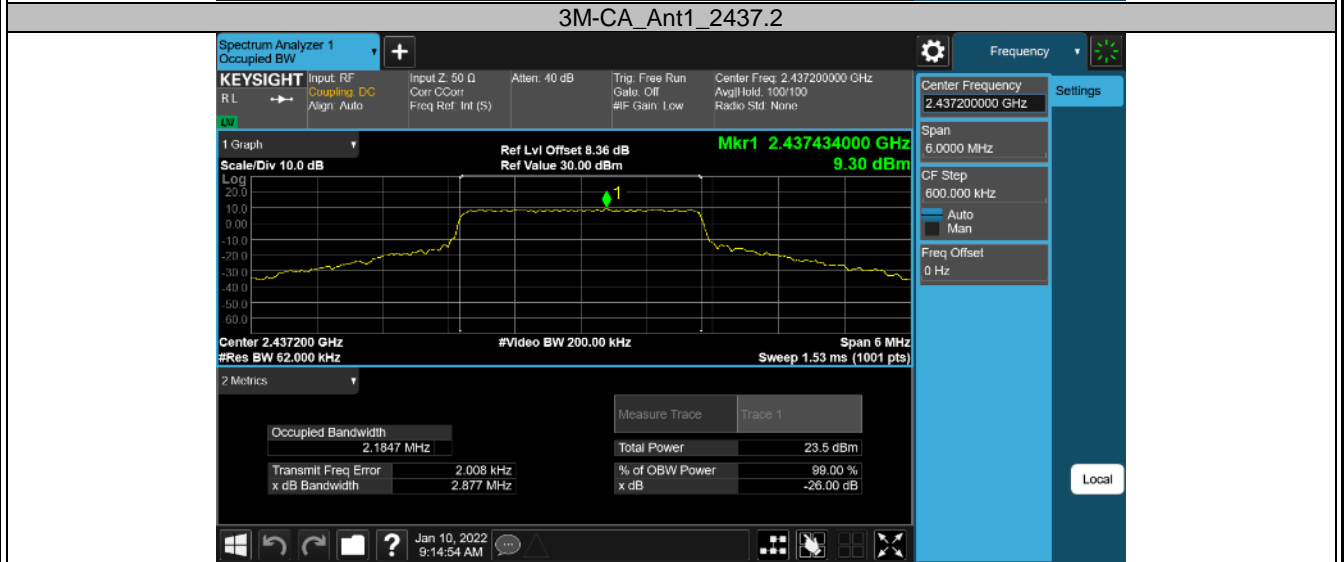
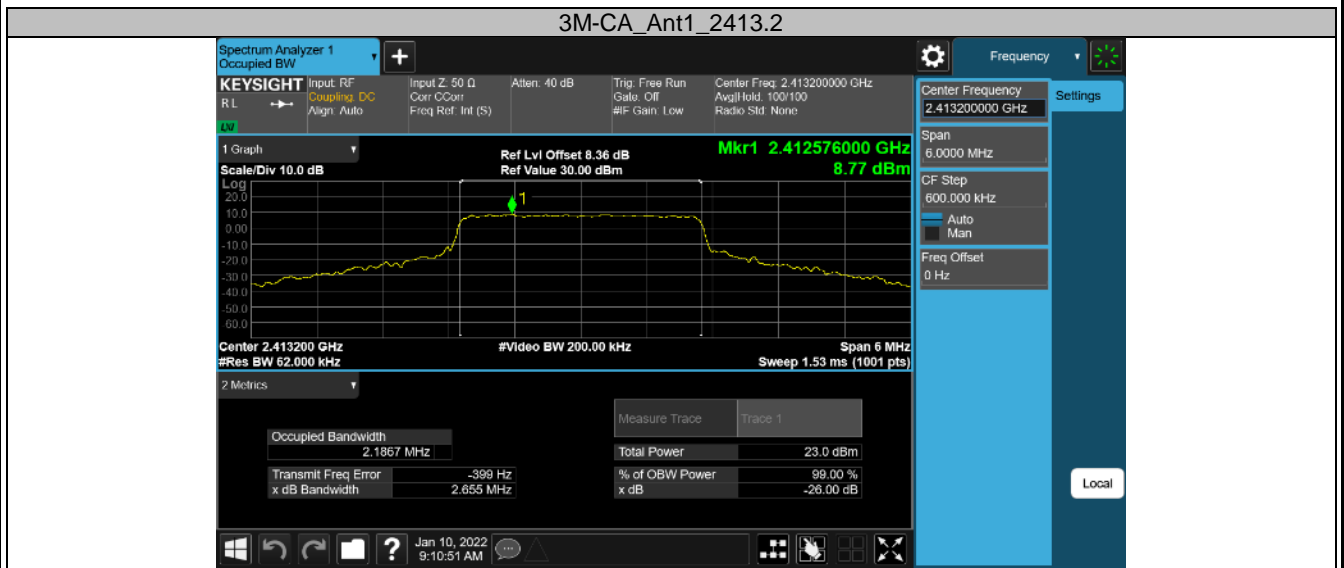
2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M	Ant1	2410.5	2.2744	2409.390	2411.664	---	PASS
		2434.5	2.2584	2433.394	2435.652	---	PASS
		2461.5	2.2813	2460.387	2462.668	---	PASS



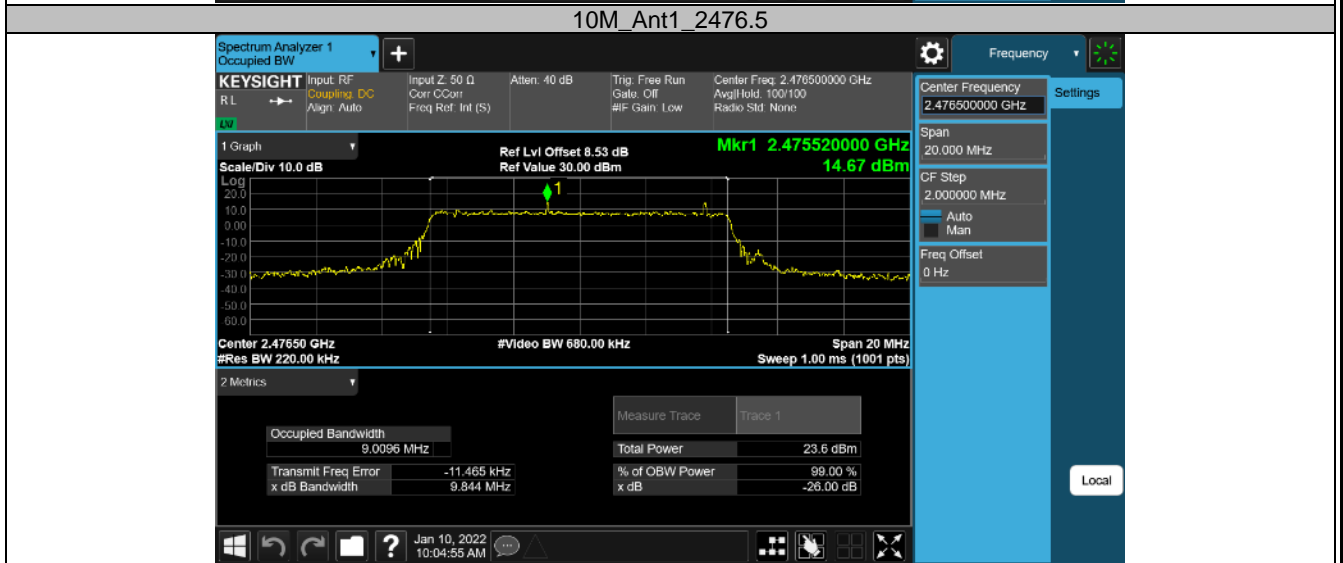
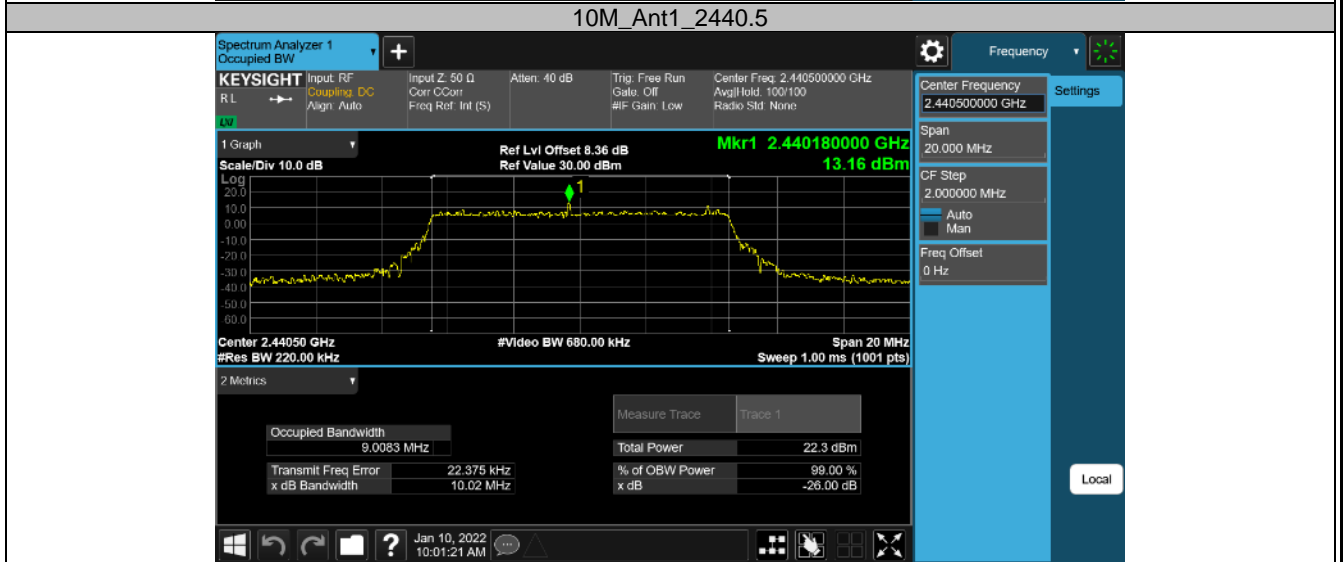
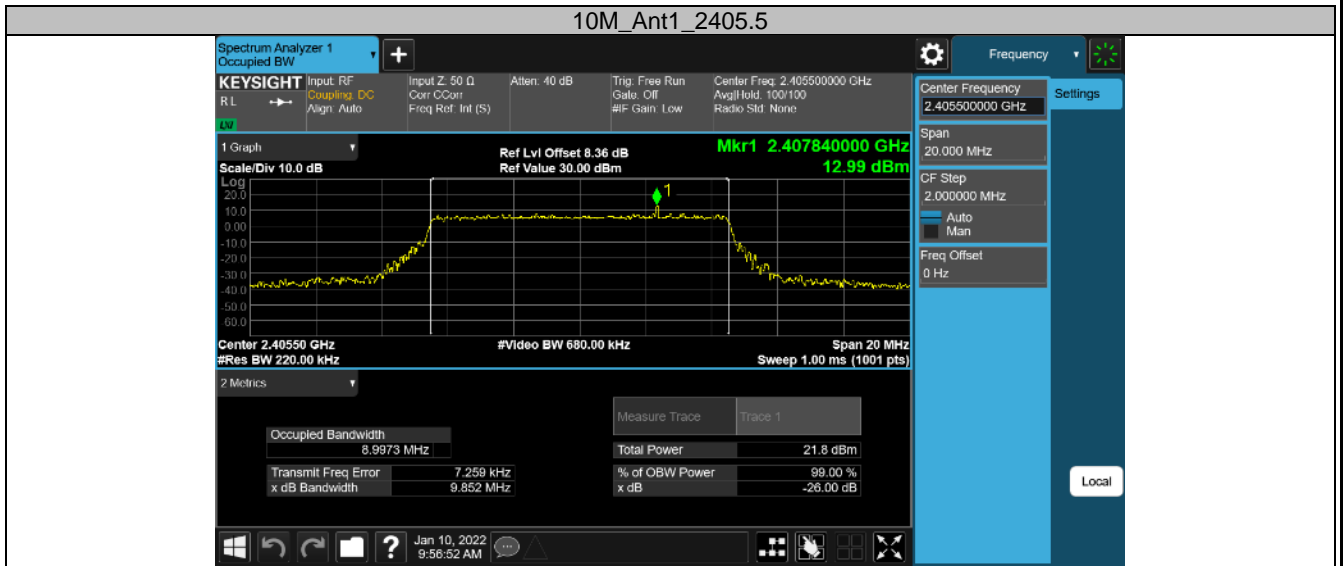
2.4GHz SDR, 3MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M-CA	Ant1	2413.2	2.1867	2412.106	2414.293	---	PASS
		2437.2	2.1847	2436.110	2438.294	---	PASS
		2464.2	2.1844	2463.110	2465.294	---	PASS



2.4GHz SDR, 10MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	2405.5	8.9973	2401.009	2410.006	---	PASS
		2440.5	9.0083	2436.018	2445.027	---	PASS
		2476.5	9.0096	2471.984	2480.993	---	PASS



2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20M	Ant1	2410.5	18.081	2401.437	2419.518	---	PASS
		2441.5	17.787	2432.622	2450.409	---	PASS
		2472.5	17.934	2463.651	2481.585	---	PASS