



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Mini PC

Test Model: AM02

Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Mart Chen
Supervised by:	Li Huan



D.1 26dB Bandwidth

Test Result

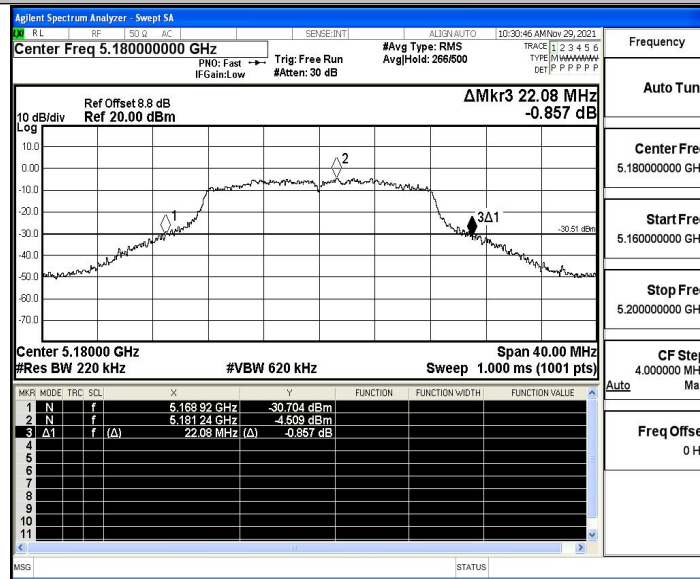
ANT0

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	22.080	5168.920	5191.000	---	PASS
		5200	22.920	5188.680	5211.600	---	PASS
		5240	22.480	5228.760	5251.240	---	PASS
11N20SISO	Ant0	5180	22.720	5168.360	5191.080	---	PASS
		5200	22.920	5188.520	5211.440	---	PASS
		5240	22.520	5228.480	5251.000	---	PASS
11N40SISO	Ant0	5190	42.080	5168.720	5210.800	---	PASS
		5230	43.360	5207.600	5250.960	---	PASS
11AC20SISO	Ant0	5180	22.520	5168.520	5191.040	---	PASS
		5200	22.920	5188.520	5211.440	---	PASS
		5240	22.800	5228.720	5251.520	---	PASS
11AC40SISO	Ant0	5190	42.720	5168.640	5211.360	---	PASS
		5230	41.840	5208.720	5250.560	---	PASS
11AC80SISO	Ant0	5210	81.120	5169.200	5250.320	---	PASS

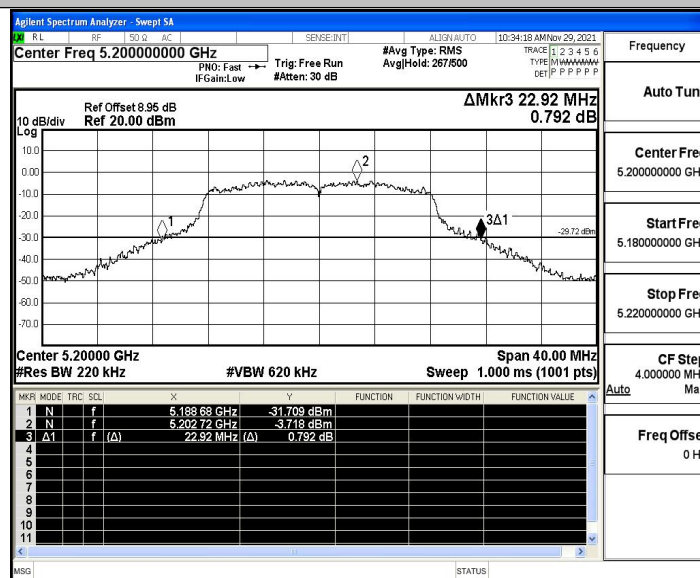


Test Graphs

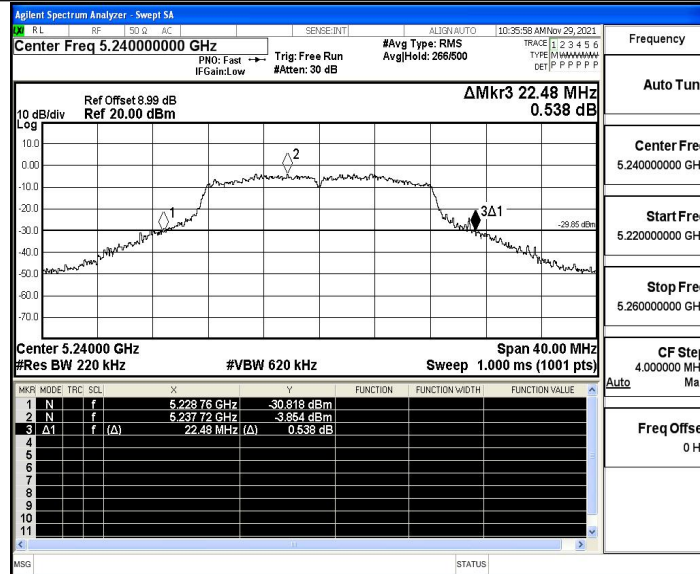
11A_Ant0_5180



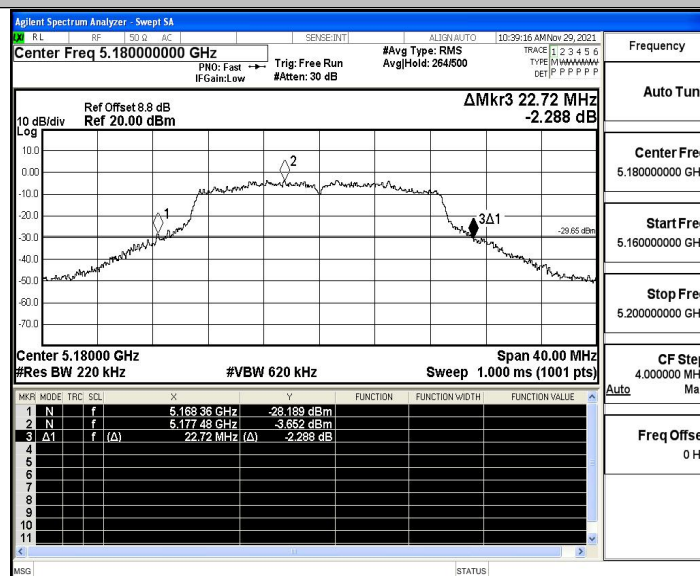
11A_Ant0_5200



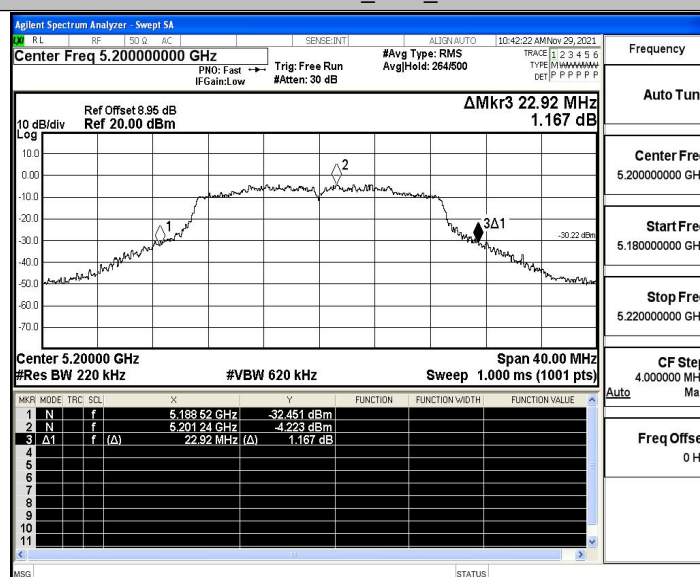
11A_Ant0_5240



11N20SISO_Ant0_5180

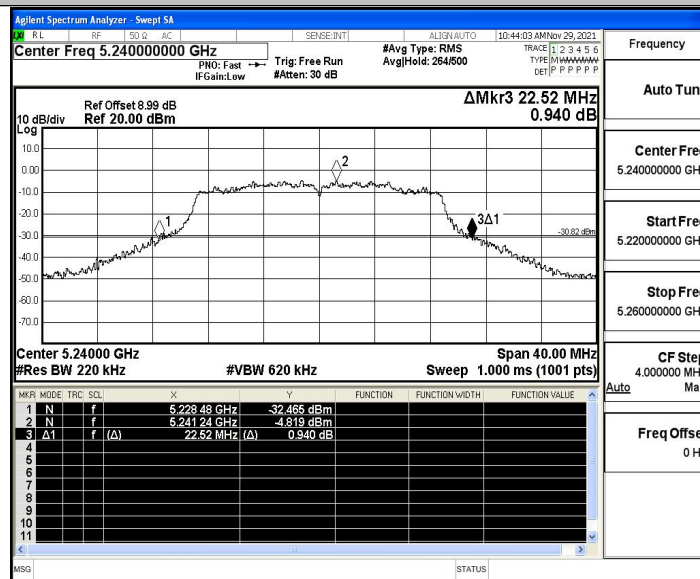


11N20SISO_Ant0_5200

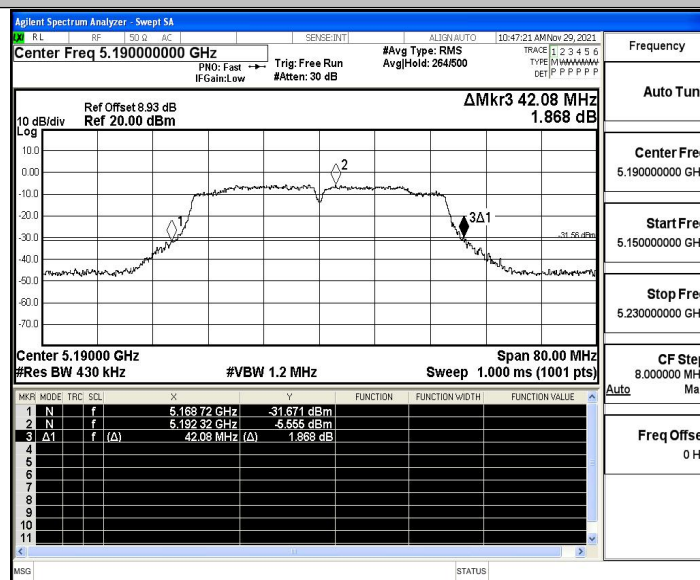




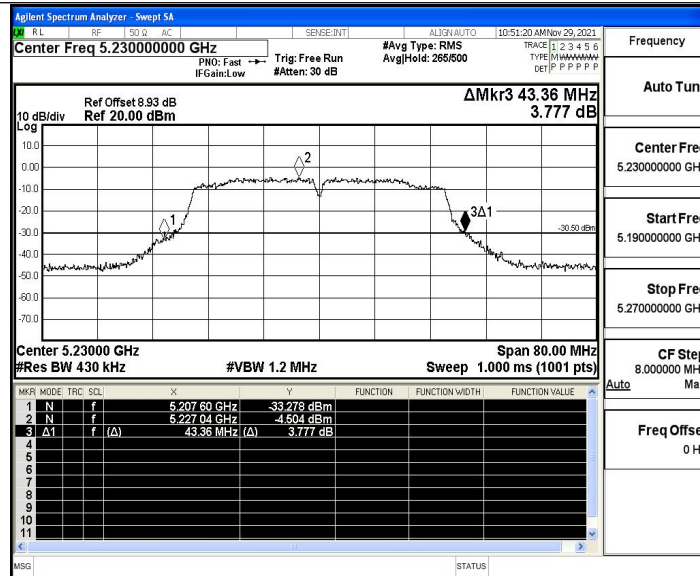
11N20SISO_Ant0_5240



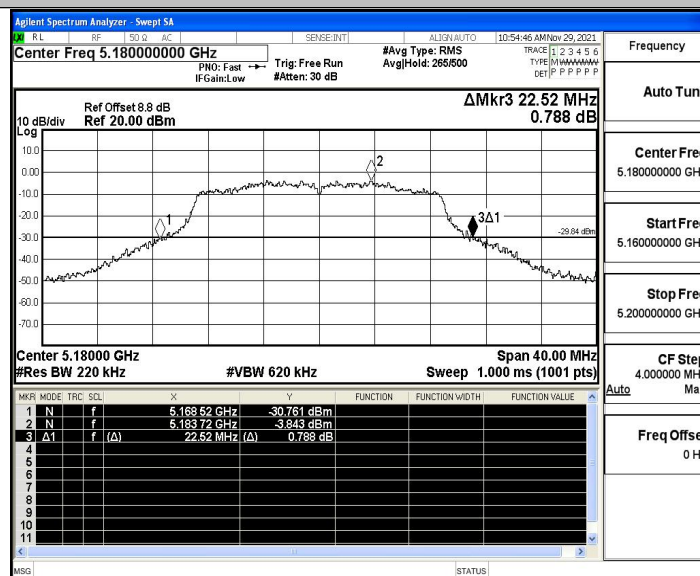
11N40SISO_Ant0_5190



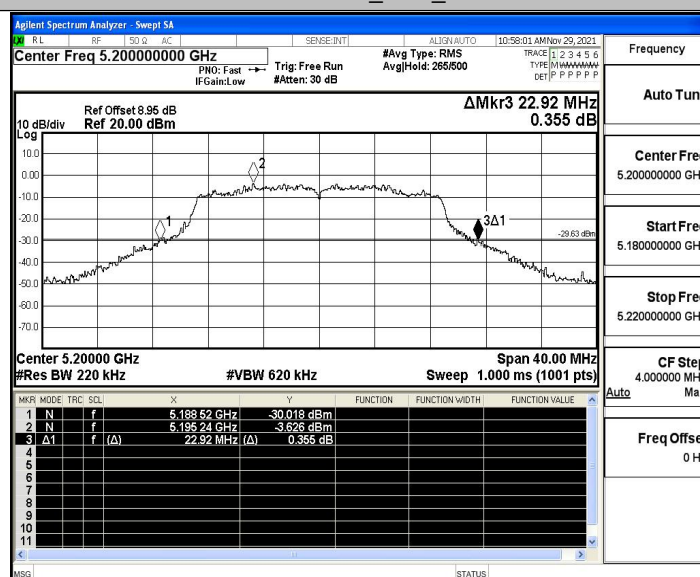
11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180

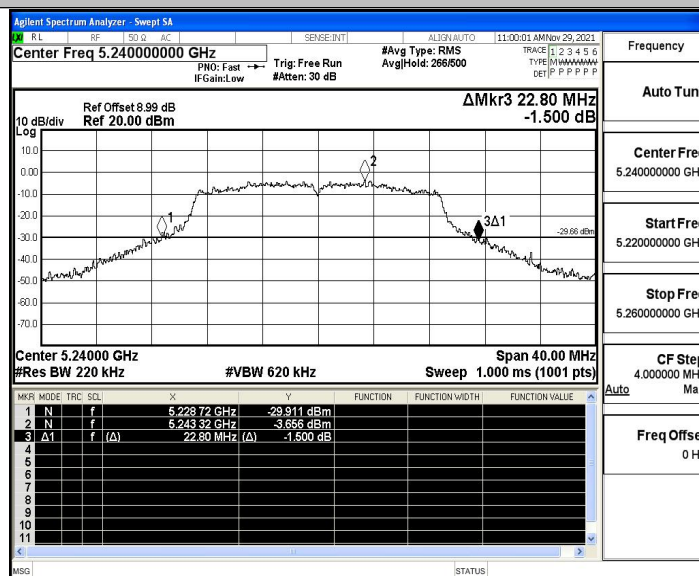


11AC20SISO_Ant0_5200

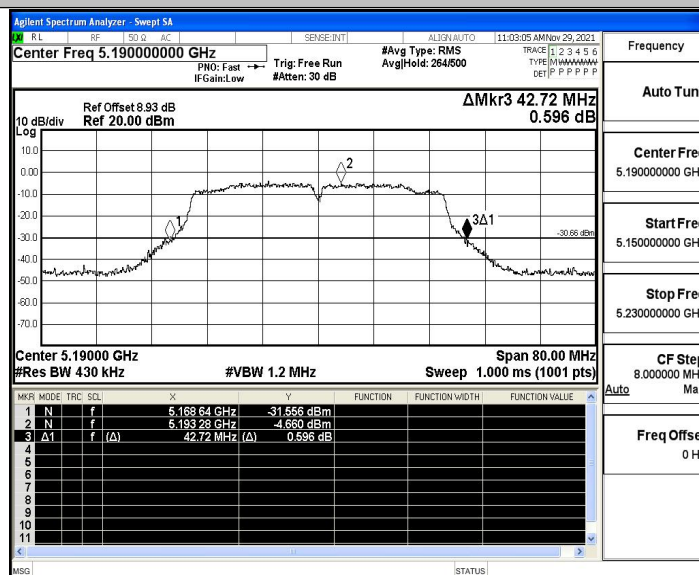




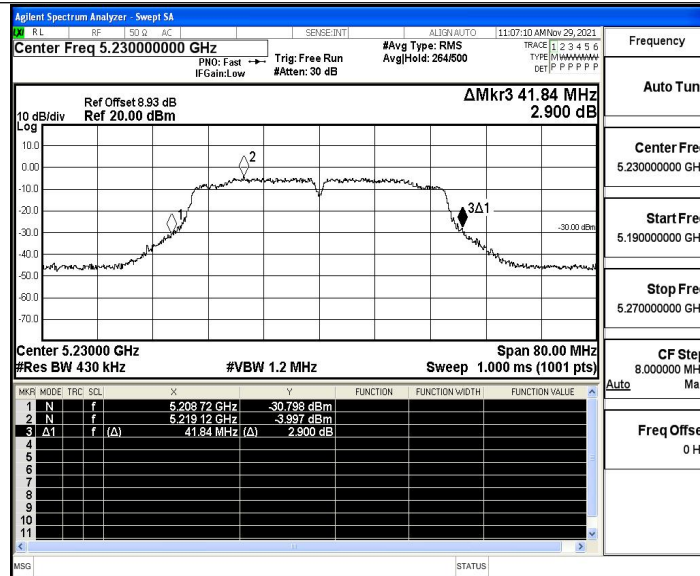
11AC20SISO_Ant0_5240



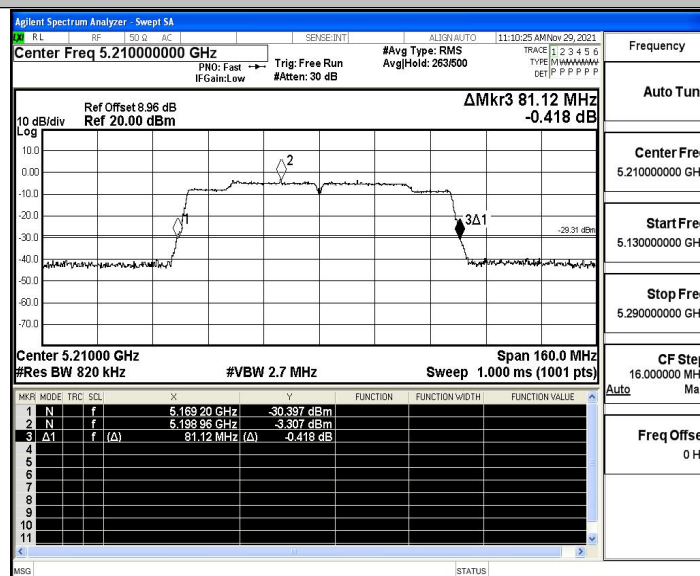
11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210

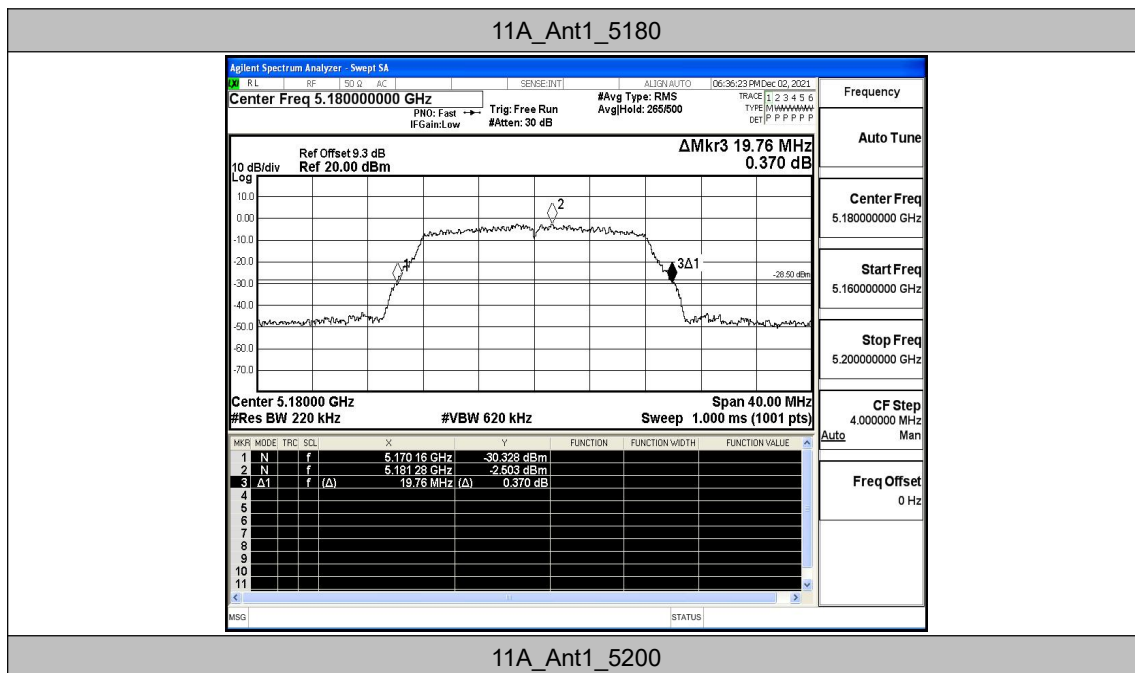


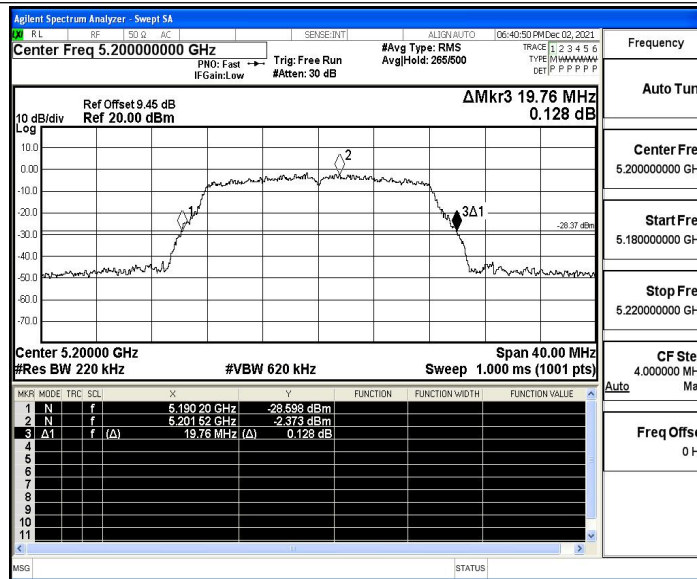


ANT1

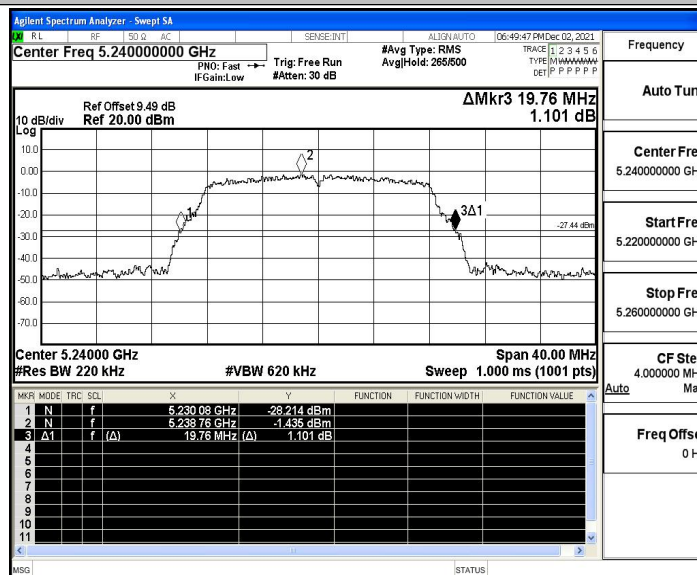
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.760	5170.160	5189.920	---	PASS
		5200	19.760	5190.200	5209.960	---	PASS
		5240	19.760	5230.080	5249.840	---	PASS
11N20SISO	Ant1	5180	20.120	5169.960	5190.080	---	PASS
		5200	20.320	5189.920	5210.240	---	PASS
		5240	20.280	5229.960	5250.240	---	PASS
11N40SISO	Ant1	5190	40.080	5169.920	5210.000	---	PASS
		5230	40.400	5209.920	5250.320	---	PASS
11AC20SISO	Ant1	5180	20.120	5169.960	5190.080	---	PASS
		5200	20.200	5189.960	5210.160	---	PASS
		5240	20.360	5229.880	5250.240	---	PASS
11AC40SISO	Ant1	5190	40.320	5169.680	5210.000	---	PASS
		5230	40.080	5210.000	5250.080	---	PASS
11AC80SISO	Ant1	5210	80.800	5169.840	5250.640	---	PASS

Test Graphs

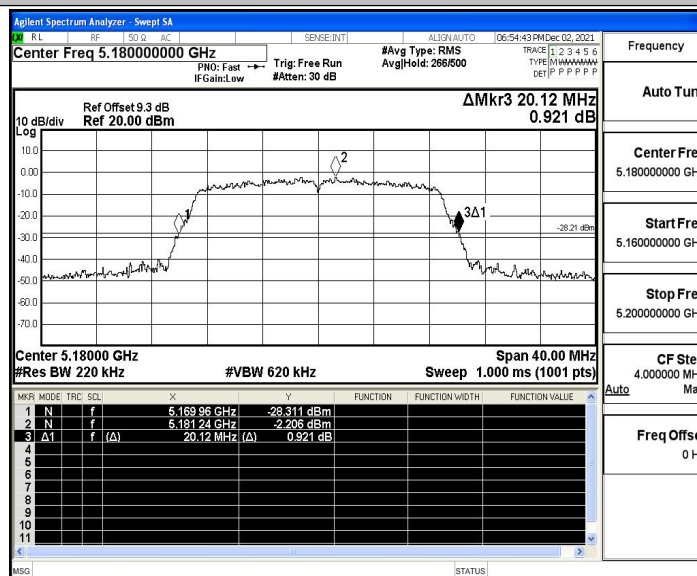




11A_Ant1_5240

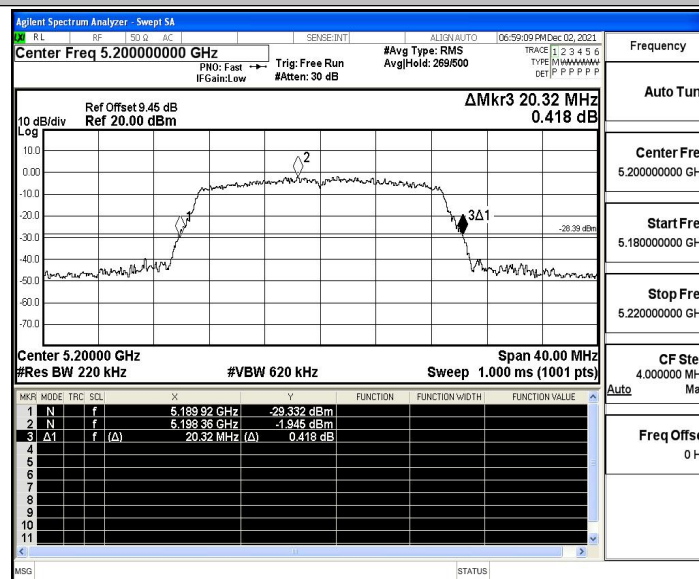


11N20SISO_Ant1_5180

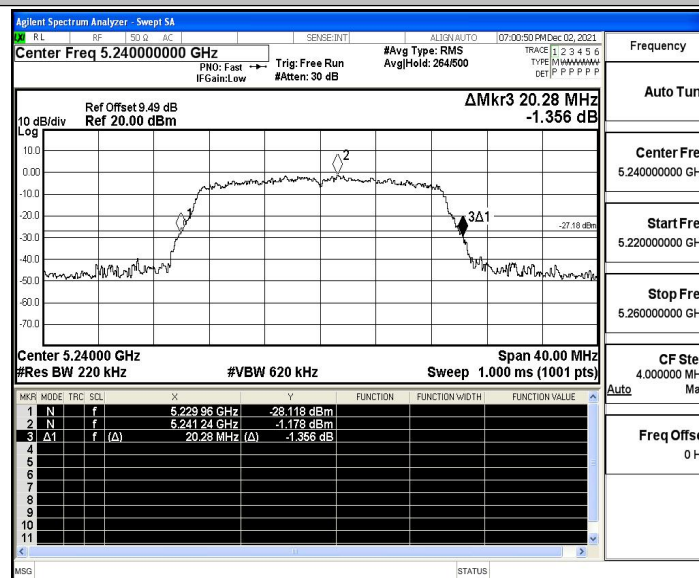




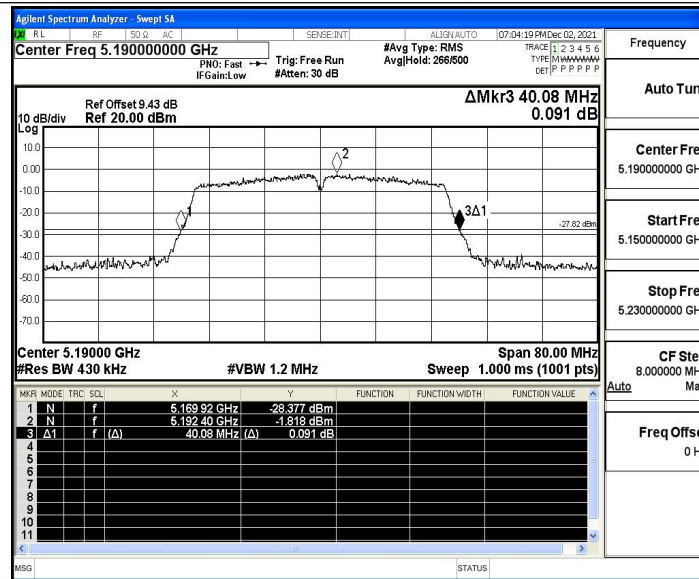
11N20SISO_Ant1_5200



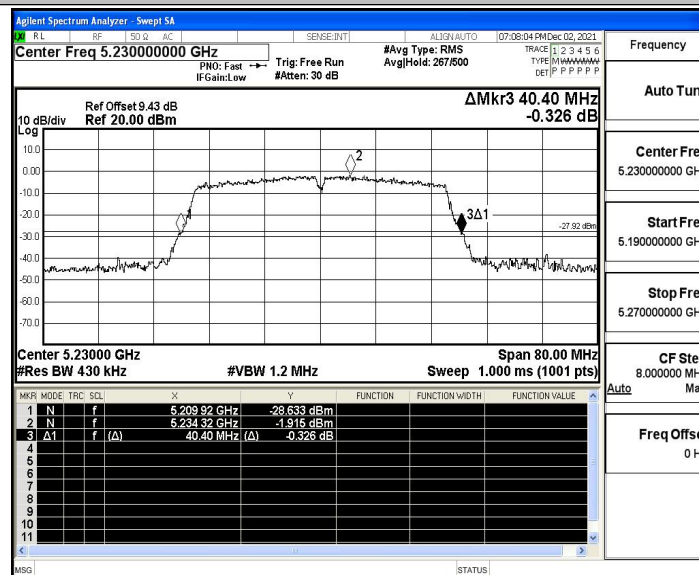
11N20SISO_Ant1_5240



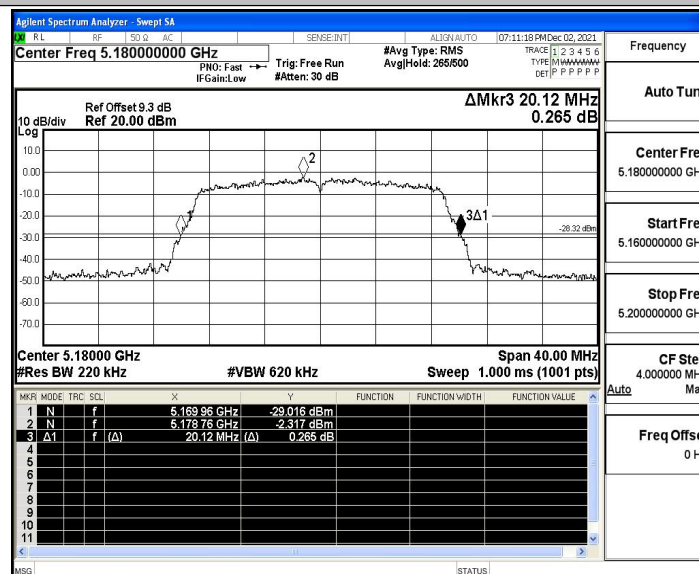
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

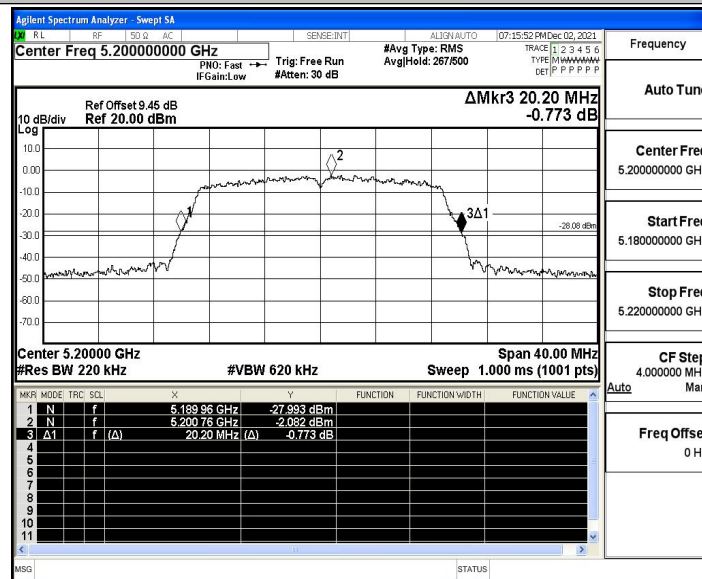


11AC20SISO_Ant1_5180

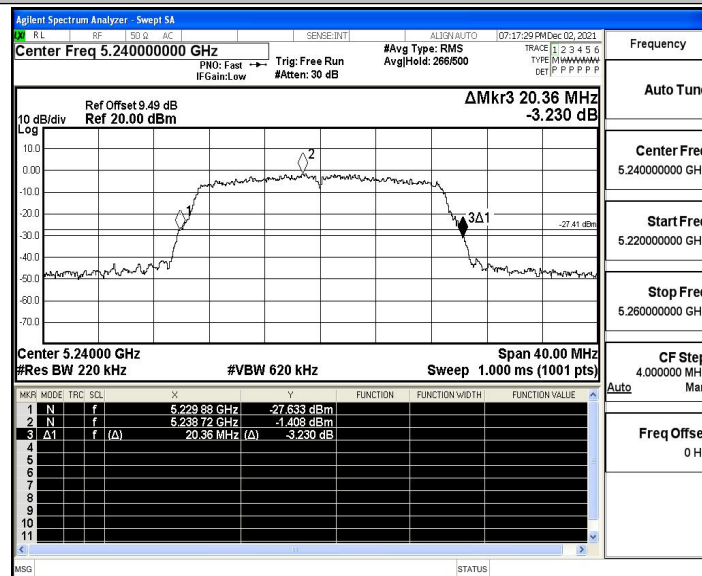




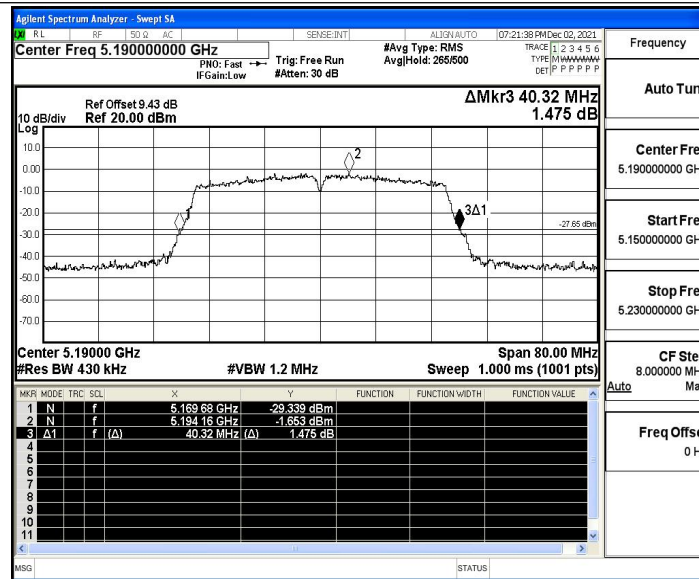
11AC20SISO_Ant1_5200



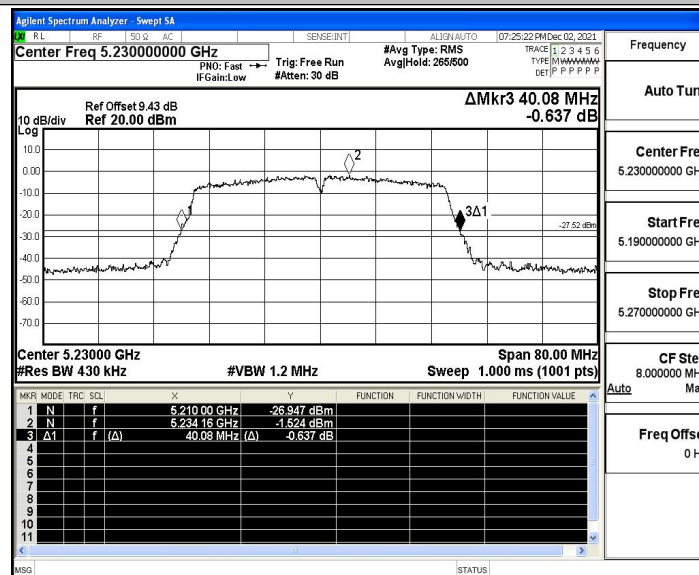
11AC20SISO_Ant1_5240



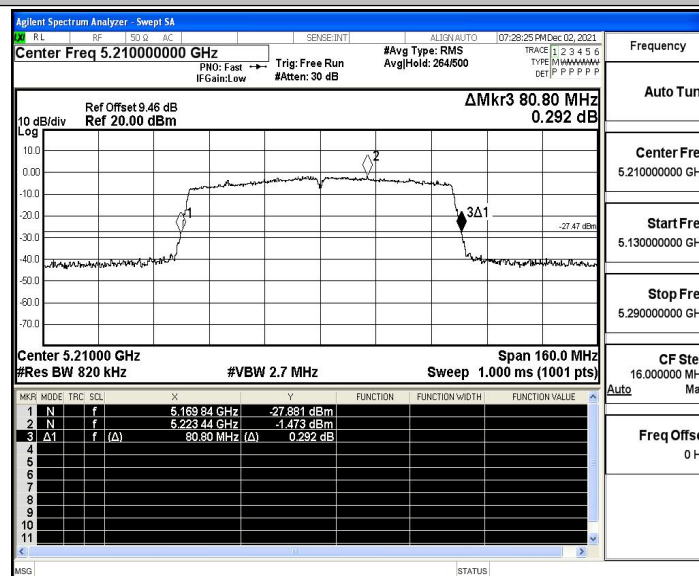
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result

ANT0

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant0	5180	5.80	≤ 23.98	PASS
		5200	5.65	≤ 23.98	PASS
		5240	5.64	≤ 23.98	PASS
11N20SISO	Ant0	5180	5.68	≤ 23.98	PASS
		5200	6.08	≤ 23.98	PASS
		5240	5.58	≤ 23.98	PASS
11N40SISO	Ant0	5190	6.25	≤ 23.98	PASS
		5230	5.77	≤ 23.98	PASS
11AC20SISO	Ant0	5180	5.49	≤ 23.98	PASS
		5200	5.49	≤ 23.98	PASS
		5240	5.49	≤ 23.98	PASS
11AC40SISO	Ant0	5190	5.70	≤ 23.98	PASS
		5230	5.80	≤ 23.98	PASS
11AC80SISO	Ant0	5210	6.25	≤ 23.98	PASS

ANT1

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	6.64	≤ 23.98	PASS
		5200	7.33	≤ 23.98	PASS
		5240	8.18	≤ 23.98	PASS
11N20SISO	Ant1	5180	7.03	≤ 23.98	PASS
		5200	7.47	≤ 23.98	PASS
		5240	7.99	≤ 23.98	PASS
11N40SISO	Ant1	5190	7.48	≤ 23.98	PASS
		5230	8.11	≤ 23.98	PASS
11AC20SISO	Ant1	5180	7.01	≤ 23.98	PASS
		5200	7.44	≤ 23.98	PASS
		5240	7.91	≤ 23.98	PASS
11AC40SISO	Ant1	5190	7.53	≤ 23.98	PASS
		5230	8.10	≤ 23.98	PASS
11AC80SISO	Ant1	5210	8.16	≤ 23.98	PASS

Note: The Duty Cycle Factor is compensated in the graph.



MIMO

Test Mode	Channel	Frequency (MHz)	ANT 0 AVG Conducted Power (dBm)	ANT 1 AVG Conducted Power (dBm)	MIMO AVG Conducted Power (dBm)	Limit (dBm)	Verdict
11N20	36	5180	5.68	7.03	9.42	24	Pass
	40	5200	6.08	7.47	9.84		Pass
	48	5240	5.58	7.99	9.96		Pass
11N40	38	5190	6.25	7.48	9.92	24	Pass
	46	5230	5.77	8.11	10.11		Pass
11AC20	36	5180	5.49	7.01	9.33	24	Pass
	40	5200	5.49	7.44	9.58		Pass
	48	5240	5.49	7.91	9.88		Pass
11AC40	38	5190	5.70	7.53	9.72	24	Pass
	46	5230	5.80	8.10	10.11		Pass
11AC80	42	5210	6.25	8.16	10.32	24	Pass



D.3 Maximum power spectral density

Test Result

ANT0

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant0	5180	-4.79	≤11	PASS
		5200	-4.88	≤11	PASS
		5240	-4.86	≤11	PASS
11N20SISO	Ant0	5180	-5.05	≤11	PASS
		5200	-4.63	≤11	PASS
		5240	-5.16	≤11	PASS
11N40SISO	Ant0	5190	-7.9	≤11	PASS
		5230	-8.08	≤11	PASS
11AC20SISO	Ant0	5180	-5.02	≤11	PASS
		5200	-5.32	≤11	PASS
		5240	-5.11	≤11	PASS
11AC40SISO	Ant0	5190	-8.27	≤11	PASS
		5230	-7.84	≤11	PASS
11AC80SISO	Ant0	5210	-10.49	≤11	PASS

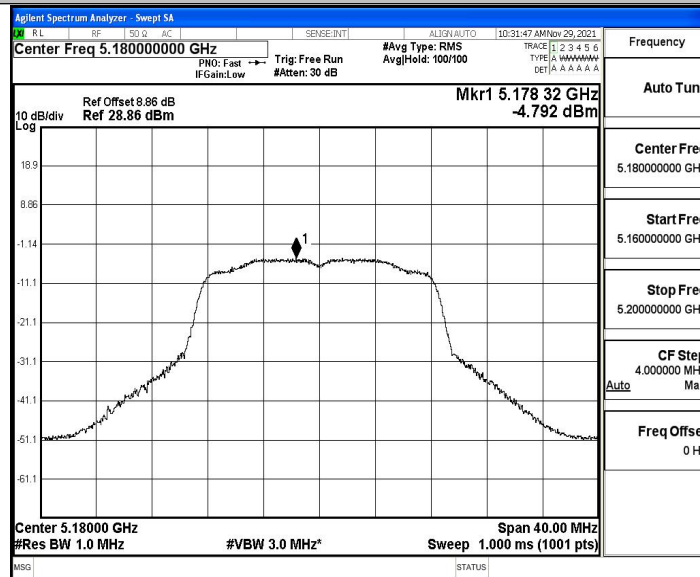
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

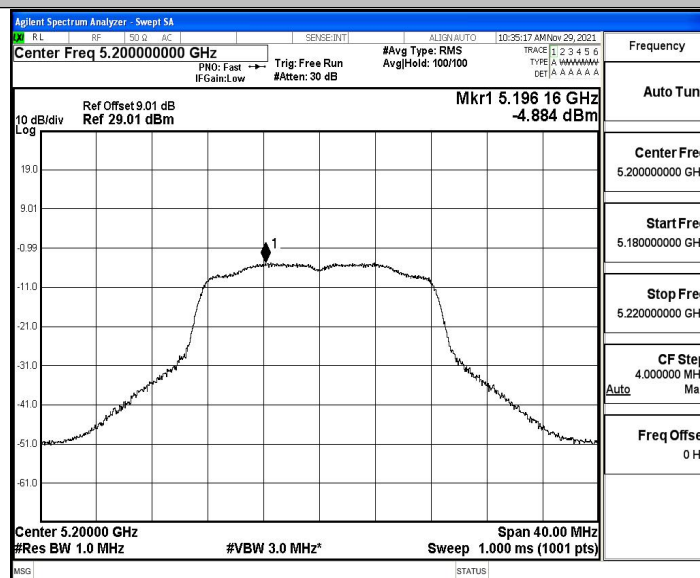


Test Graphs

11A_Ant0_5180



11A_Ant0_5200



11A_Ant0_5240