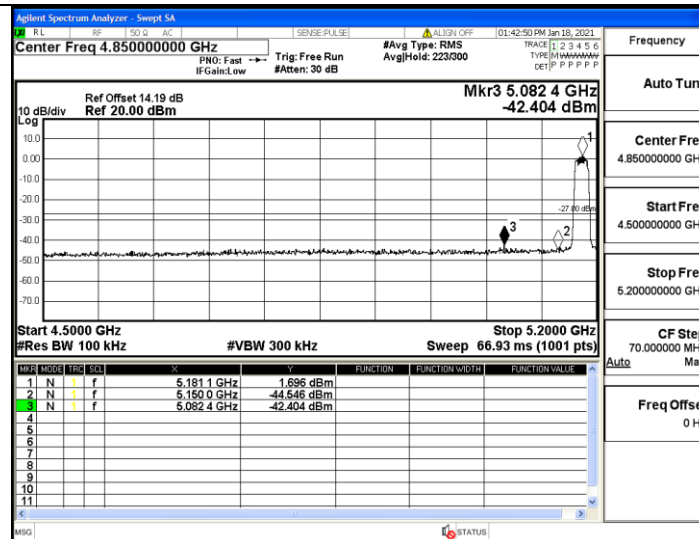
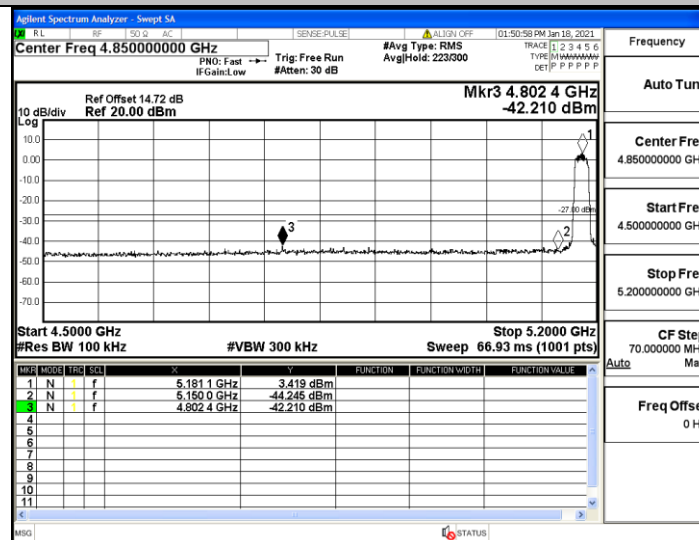
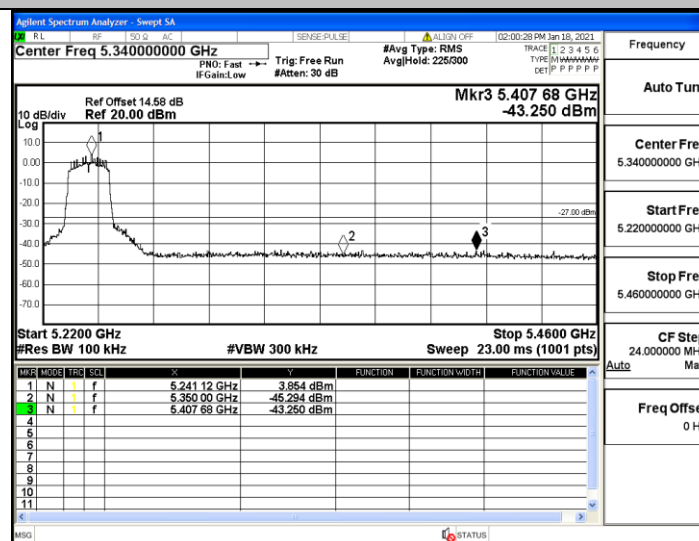




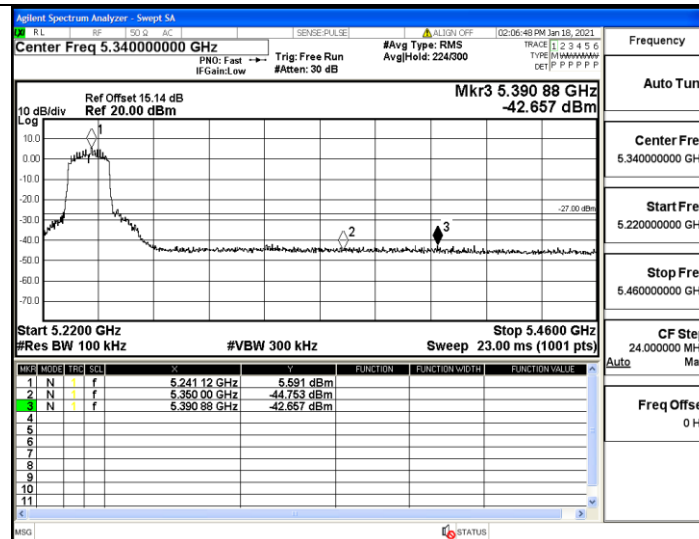
11AC20MIMO_Ant2_Low_5180



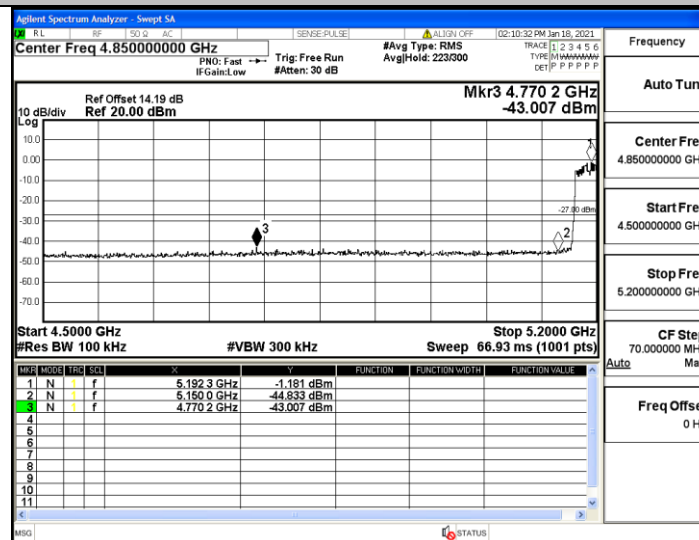
11AC20MIMO_Ant1_High_5240



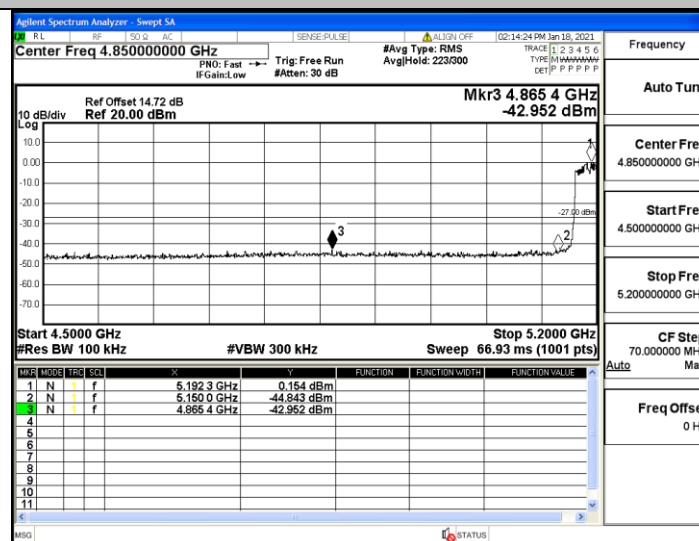
11AC20MIMO_Ant2_High_5240



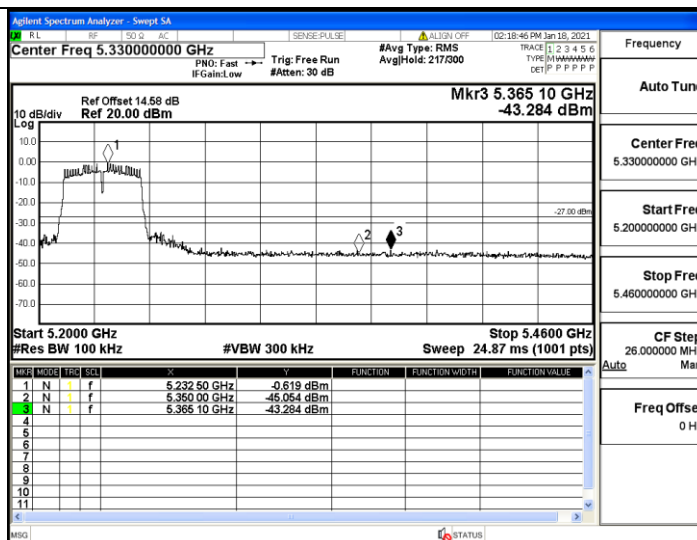
11AC40MIMO_Ant1_Low_5190



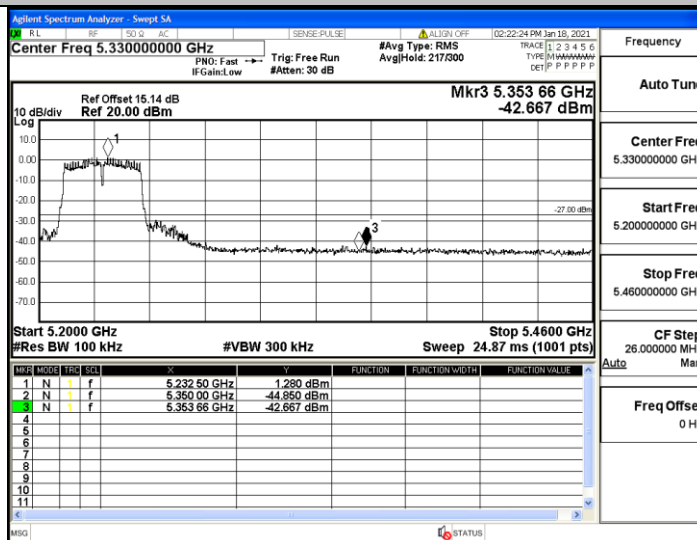
11AC40MIMO_Ant2_Low_5190



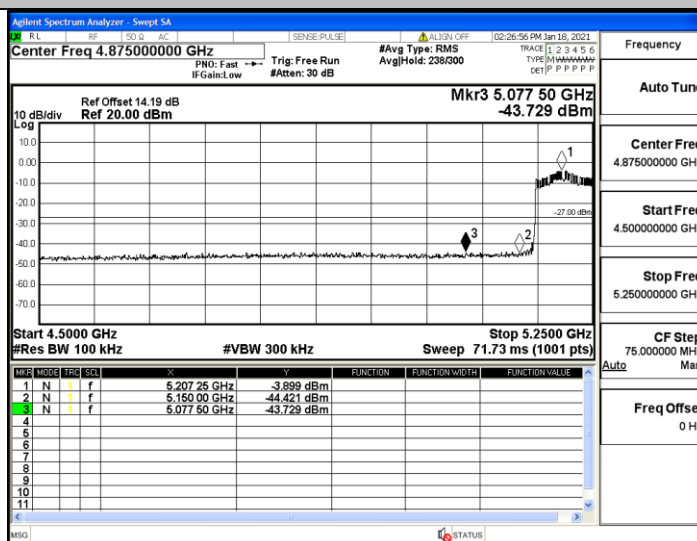
11AC40MIMO_Ant1_High_5230



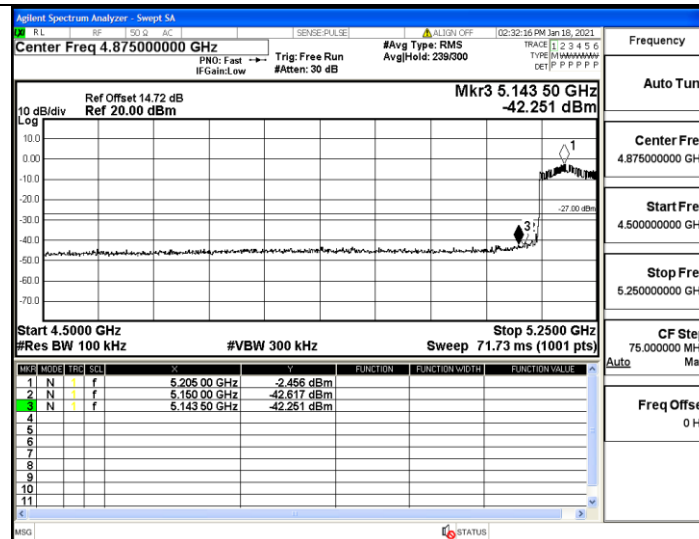
11AC40MIMO_Ant2_High_5230



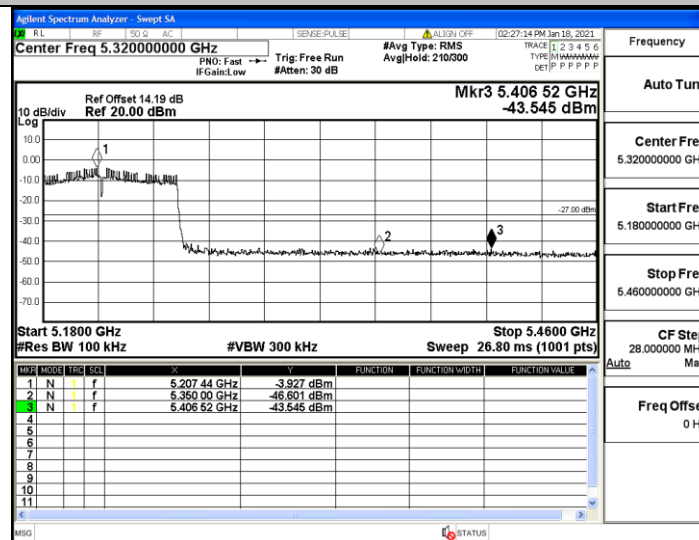
11AC80MIMO_Ant1_Low_5210



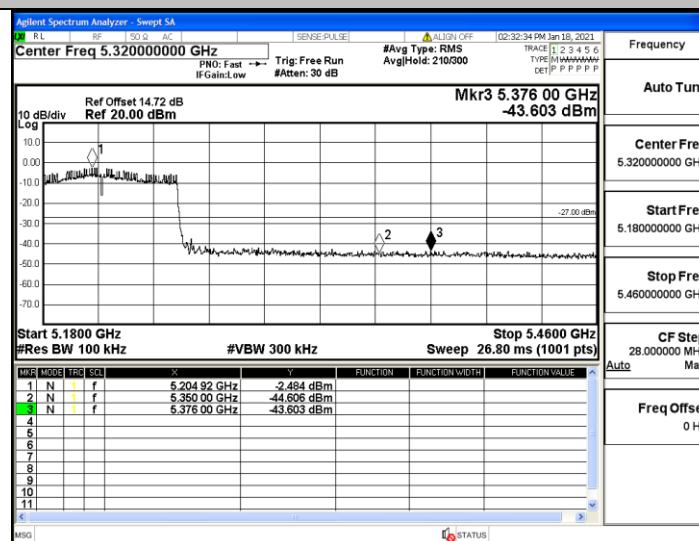
11AC80MIMO_Ant2_Low_5210



11AC80MIMO_Ant1_High_5210



11AC80MIMO_Ant2_High_5210



Appendix G: Frequency Stability

Test Result

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.069870	5150 – 5250	PASS
5180	20	108	5180.075996	5150 – 5250	PASS
5180	50	120	5179.968164	5150 – 5250	PASS
5180	40	120	5179.955136	5150 – 5250	PASS
5180	30	120	5179.983240	5150 – 5250	PASS
5180	20	120	5180.068173	5150 – 5250	PASS
5180	10	120	5180.078290	5150 – 5250	PASS
5180	0	120	5179.920332	5150 – 5250	PASS
5180	-10	120	5179.908278	5150 – 5250	PASS
5180	-20	120	5180.000046	5150 – 5250	PASS
5180	-30	120	5180.098510	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.907035	5150 – 5250	PASS
5180	20	108	5179.997690	5150 – 5250	PASS
5180	50	120	5180.052653	5150 – 5250	PASS
5180	40	120	5179.929144	5150 – 5250	PASS
5180	30	120	5179.982899	5150 – 5250	PASS
5180	20	120	5179.930863	5150 – 5250	PASS
5180	10	120	5180.038221	5150 – 5250	PASS
5180	0	120	5179.954630	5150 – 5250	PASS
5180	-10	120	5180.034867	5150 – 5250	PASS
5180	-20	120	5180.040534	5150 – 5250	PASS
5180	-30	120	5180.017005	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.066035	5150 – 5250	PASS
5200	20	108	5200.049230	5150 – 5250	PASS
5200	50	120	5199.985780	5150 – 5250	PASS
5200	40	120	5200.060559	5150 – 5250	PASS
5200	30	120	5200.095093	5150 – 5250	PASS
5200	20	120	5200.027991	5150 – 5250	PASS
5200	10	120	5200.003132	5150 – 5250	PASS
5200	0	120	5200.070785	5150 – 5250	PASS
5200	-10	120	5200.084352	5150 – 5250	PASS
5200	-20	120	5200.087516	5150 – 5250	PASS
5200	-30	120	5200.032735	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.064819	5150 – 5250	PASS
5200	20	108	5199.908392	5150 – 5250	PASS
5200	50	120	5199.907223	5150 – 5250	PASS
5200	40	120	5199.970187	5150 – 5250	PASS
5200	30	120	5199.902481	5150 – 5250	PASS
5200	20	120	5199.981752	5150 – 5250	PASS
5200	10	120	5200.075328	5150 – 5250	PASS
5200	0	120	5199.952485	5150 – 5250	PASS
5200	-10	120	5199.959372	5150 – 5250	PASS
5200	-20	120	5199.904818	5150 – 5250	PASS
5200	-30	120	5199.943424	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.073621	5150 – 5250	PASS
5240	20	108	5240.078389	5150 – 5250	PASS
5240	50	120	5240.057282	5150 – 5250	PASS
5240	40	120	5240.097355	5150 – 5250	PASS
5240	30	120	5240.083772	5150 – 5250	PASS
5240	20	120	5240.037439	5150 – 5250	PASS
5240	10	120	5239.921911	5150 – 5250	PASS
5240	0	120	5240.019000	5150 – 5250	PASS
5240	-10	120	5240.062041	5150 – 5250	PASS
5240	-20	120	5239.952156	5150 – 5250	PASS
5240	-30	120	5240.041300	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.073746	5150 – 5250	PASS
5240	20	108	5240.019185	5150 – 5250	PASS
5240	50	120	5239.999542	5150 – 5250	PASS
5240	40	120	5240.099539	5150 – 5250	PASS
5240	30	120	5239.963717	5150 – 5250	PASS
5240	20	120	5240.097236	5150 – 5250	PASS
5240	10	120	5239.963689	5150 – 5250	PASS
5240	0	120	5239.921408	5150 – 5250	PASS
5240	-10	120	5240.099868	5150 – 5250	PASS
5240	-20	120	5240.011353	5150 – 5250	PASS
5240	-30	120	5239.950584	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.934234	5150 – 5250	PASS
5190	20	108	5189.979665	5150 – 5250	PASS
5190	50	120	5190.085131	5150 – 5250	PASS
5190	40	120	5190.076168	5150 – 5250	PASS
5190	30	120	5190.021623	5150 – 5250	PASS
5190	20	120	5189.921775	5150 – 5250	PASS
5190	10	120	5189.935398	5150 – 5250	PASS
5190	0	120	5190.085862	5150 – 5250	PASS
5190	-10	120	5190.060068	5150 – 5250	PASS
5190	-20	120	5189.978893	5150 – 5250	PASS
5190	-30	120	5190.068796	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5190.060493	5150 – 5250	PASS
5190	20	108	5190.066825	5150 – 5250	PASS
5190	50	120	5189.928282	5150 – 5250	PASS
5190	40	120	5189.946838	5150 – 5250	PASS
5190	30	120	5189.968550	5150 – 5250	PASS
5190	20	120	5190.001498	5150 – 5250	PASS
5190	10	120	5190.098573	5150 – 5250	PASS
5190	0	120	5189.913292	5150 – 5250	PASS
5190	-10	120	5190.038779	5150 – 5250	PASS
5190	-20	120	5189.988541	5150 – 5250	PASS
5190	-30	120	5189.924114	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.096936	5150 – 5250	PASS
5230	20	108	5229.943675	5150 – 5250	PASS
5230	50	120	5230.021250	5150 – 5250	PASS
5230	40	120	5229.944371	5150 – 5250	PASS
5230	30	120	5229.974696	5150 – 5250	PASS
5230	20	120	5229.940494	5150 – 5250	PASS
5230	10	120	5229.944598	5150 – 5250	PASS
5230	0	120	5230.068278	5150 – 5250	PASS
5230	-10	120	5230.061675	5150 – 5250	PASS
5230	-20	120	5230.037250	5150 – 5250	PASS
5230	-30	120	5230.033544	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.909174	5150 – 5250	PASS
5230	20	108	5229.946874	5150 – 5250	PASS
5230	50	120	5230.063095	5150 – 5250	PASS
5230	40	120	5229.912291	5150 – 5250	PASS
5230	30	120	5229.977961	5150 – 5250	PASS
5230	20	120	5229.962115	5150 – 5250	PASS
5230	10	120	5230.049919	5150 – 5250	PASS
5230	0	120	5230.061597	5150 – 5250	PASS
5230	-10	120	5229.994841	5150 – 5250	PASS
5230	-20	120	5229.927904	5150 – 5250	PASS
5230	-30	120	5230.022207	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5209.975607	5150 – 5250	PASS
5210	20	108	5209.952957	5150 – 5250	PASS
5210	50	120	5210.013806	5150 – 5250	PASS
5210	40	120	5209.971055	5150 – 5250	PASS
5210	30	120	5210.010642	5150 – 5250	PASS
5210	20	120	5209.996500	5150 – 5250	PASS
5210	10	120	5210.021758	5150 – 5250	PASS
5210	0	120	5209.993769	5150 – 5250	PASS
5210	-10	120	5209.989278	5150 – 5250	PASS
5210	-20	120	5209.932106	5150 – 5250	PASS
5210	-30	120	5209.983665	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.087233	5150 – 5250	PASS
5210	20	108	5209.905487	5150 – 5250	PASS
5210	50	120	5209.922678	5150 – 5250	PASS
5210	40	120	5210.073240	5150 – 5250	PASS
5210	30	120	5209.963758	5150 – 5250	PASS
5210	20	120	5210.093774	5150 – 5250	PASS
5210	10	120	5210.017961	5150 – 5250	PASS
5210	0	120	5209.908839	5150 – 5250	PASS
5210	-10	120	5209.941369	5150 – 5250	PASS
5210	-20	120	5209.975114	5150 – 5250	PASS
5210	-30	120	5210.084425	5150 – 5250	PASS

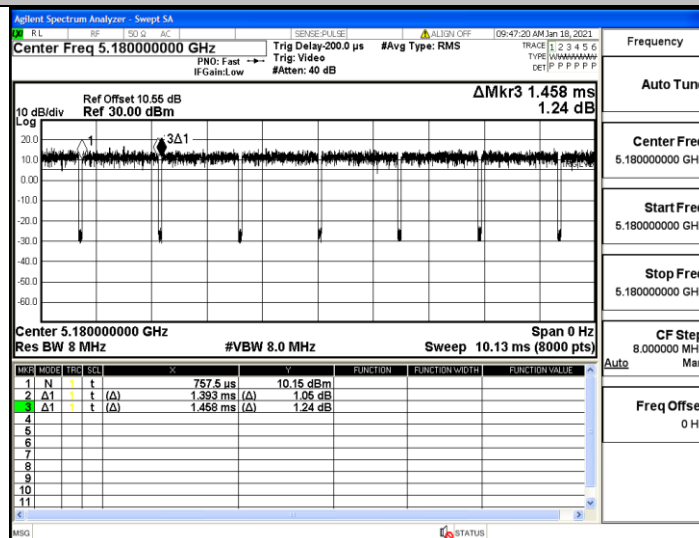
Appendix F: Duty Cycle

Test Result

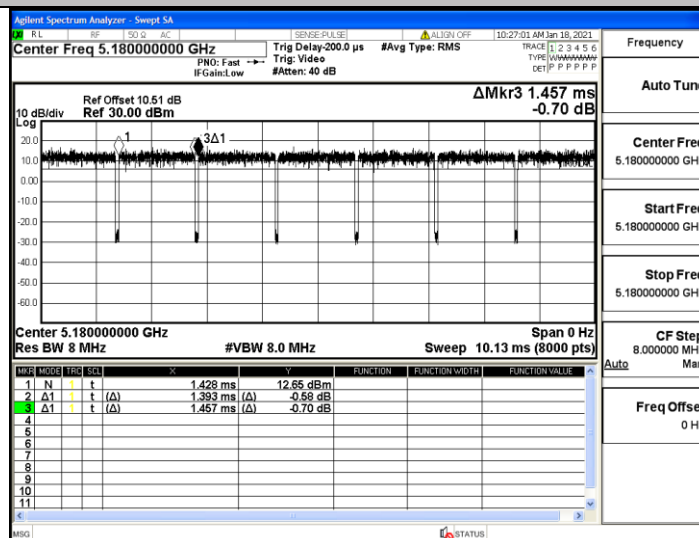
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.46	95.21
	Ant2	5180	1.39	1.46	95.21
	Ant1	5200	1.39	1.46	95.21
	Ant2	5200	1.39	1.46	95.21
	Ant1	5240	1.39	1.46	95.21
	Ant2	5240	1.39	1.46	95.21
11N20MIMO	Ant1	5180	1.31	1.37	95.62
	Ant2	5180	1.31	1.37	95.62
	Ant1	5200	1.31	1.37	95.62
	Ant2	5200	1.31	1.37	95.62
	Ant1	5240	1.31	1.37	95.62
	Ant2	5240	1.31	1.37	95.62
11N40MIMO	Ant1	5190	0.34	0.40	85.00
	Ant2	5190	0.34	0.40	85.00
	Ant1	5230	0.34	0.40	85.00
	Ant2	5230	0.34	0.40	85.00
11AC20MIMO	Ant1	5180	0.68	0.74	91.89
	Ant2	5180	0.68	0.74	91.89
	Ant1	5200	0.68	0.75	90.67
	Ant2	5200	0.68	0.74	91.89
	Ant1	5240	0.68	0.74	91.89
	Ant2	5240	0.68	0.74	91.89
11AC40MIMO	Ant1	5190	0.35	0.41	85.37
	Ant2	5190	0.35	0.41	85.37
	Ant1	5230	0.35	0.41	85.37
	Ant2	5230	0.35	0.41	85.37
11AC80MIMO	Ant1	5210	0.18	0.25	72.00
	Ant2	5210	0.18	0.25	72.00

Test Graphs

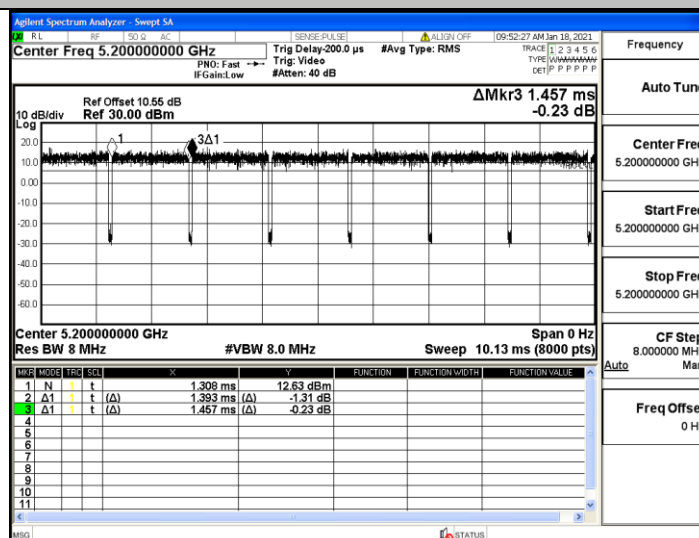
11A_Ant1_5180



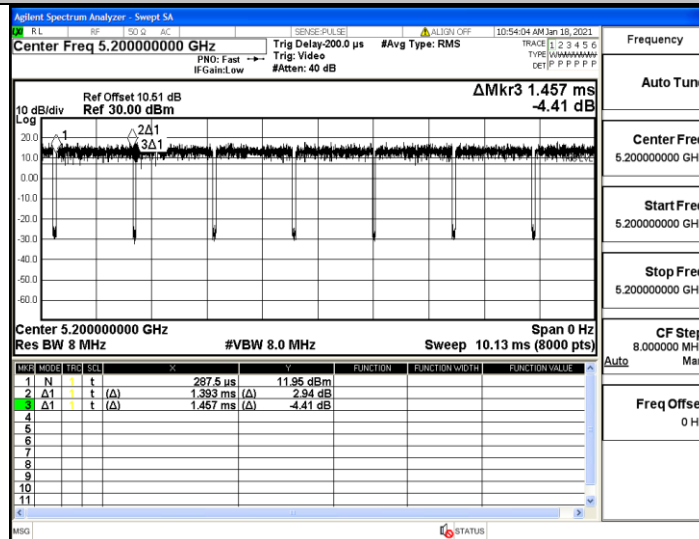
11A_Ant2_5180



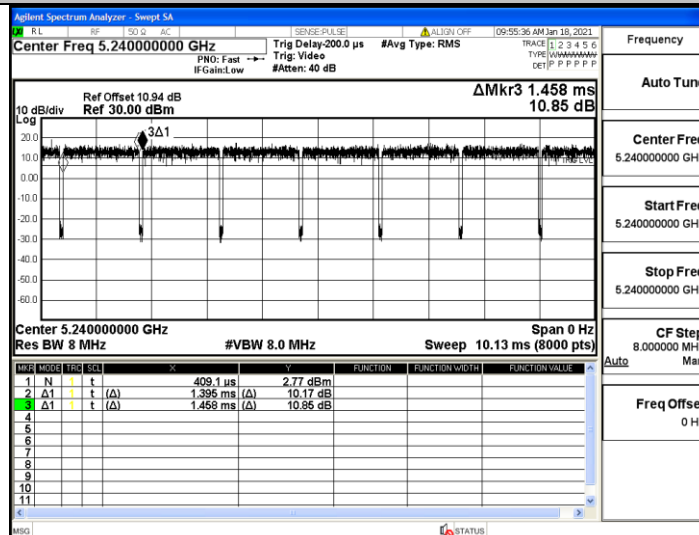
11A_Ant1_5200



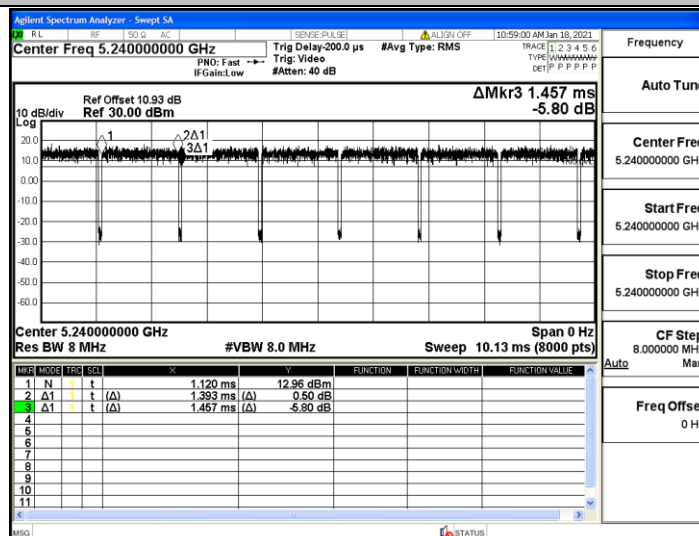
11A_Ant2_5200



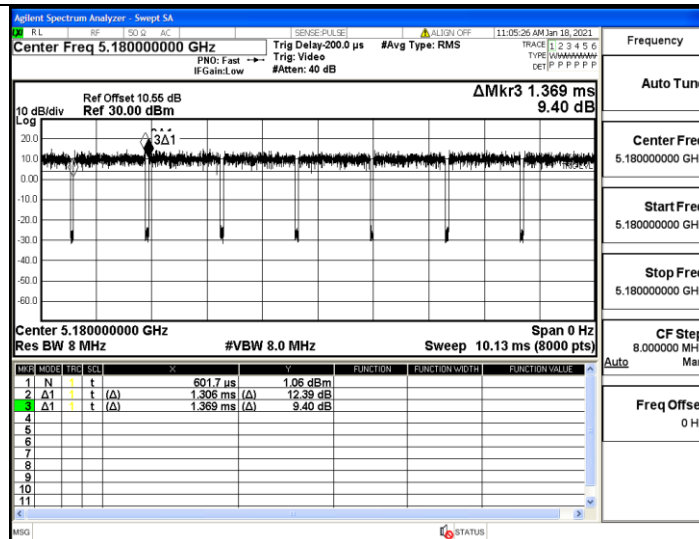
11A_Ant1_5240



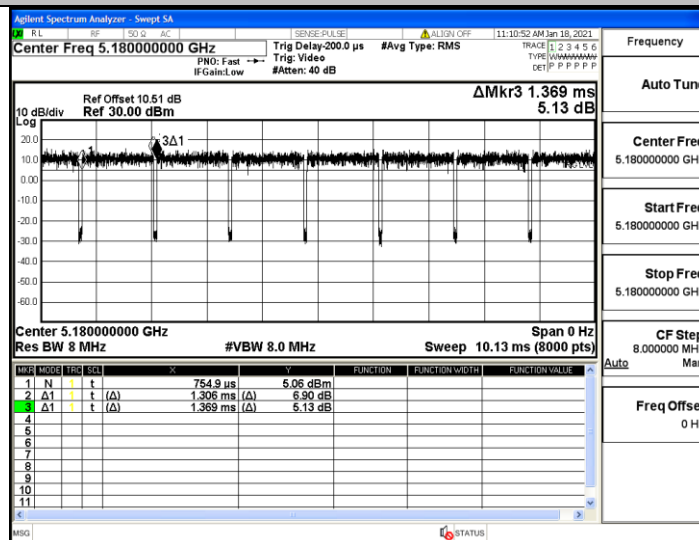
11A_Ant2_5240



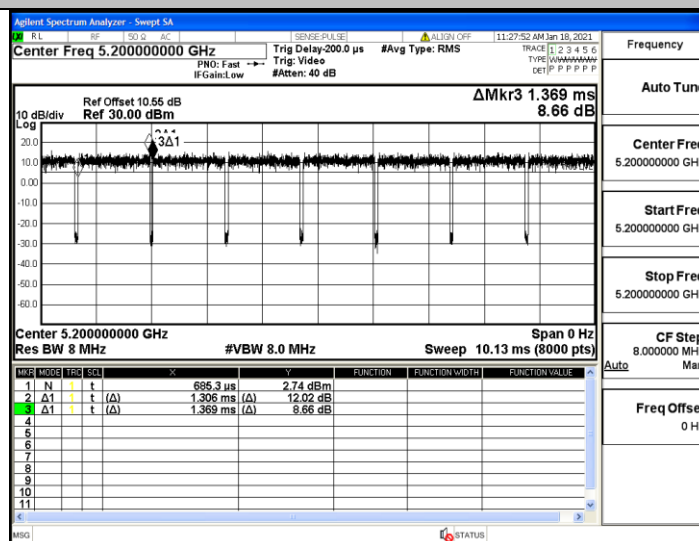
11N20MIMO_Ant1_5180



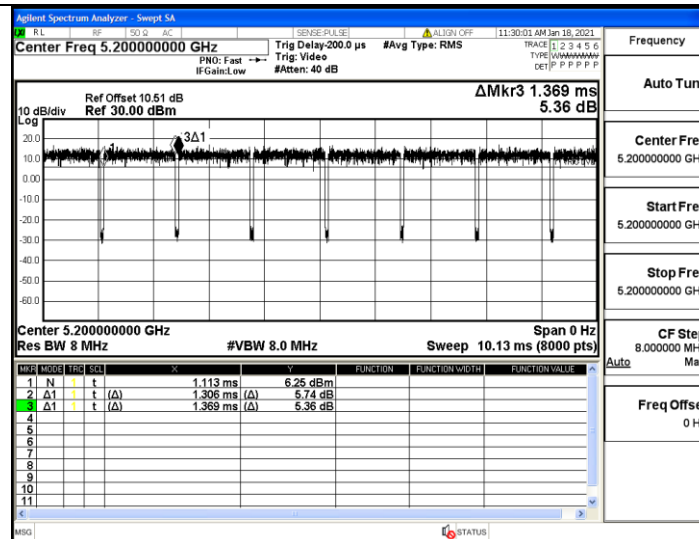
11N20MIMO_Ant2_5180



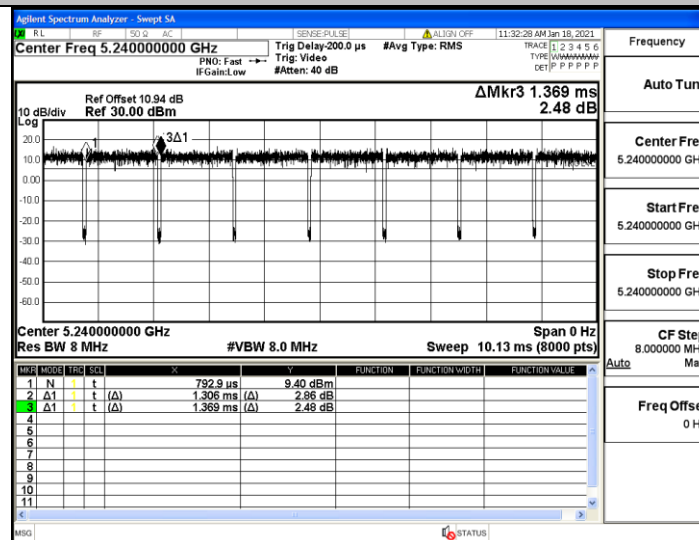
11N20MIMO_Ant1_5200



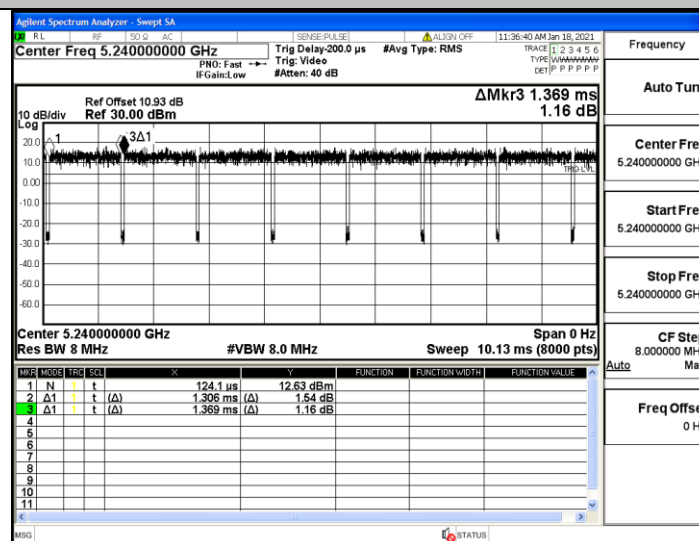
11N20MIMO_Ant2_5200



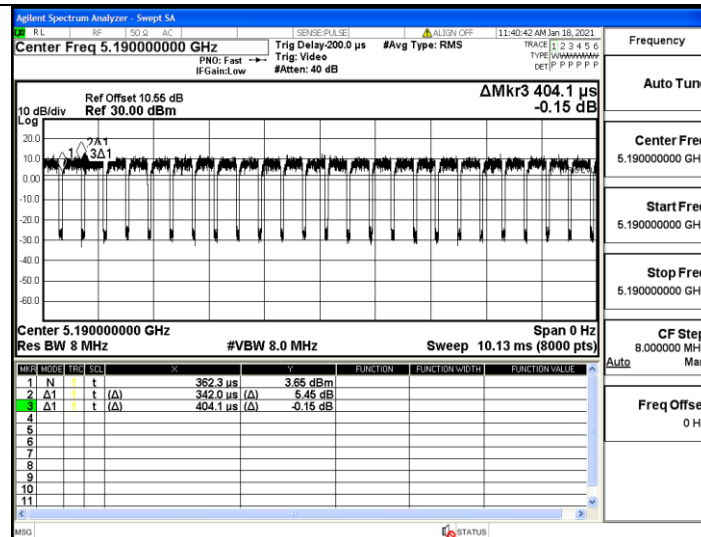
11N20MIMO_Ant1_5240



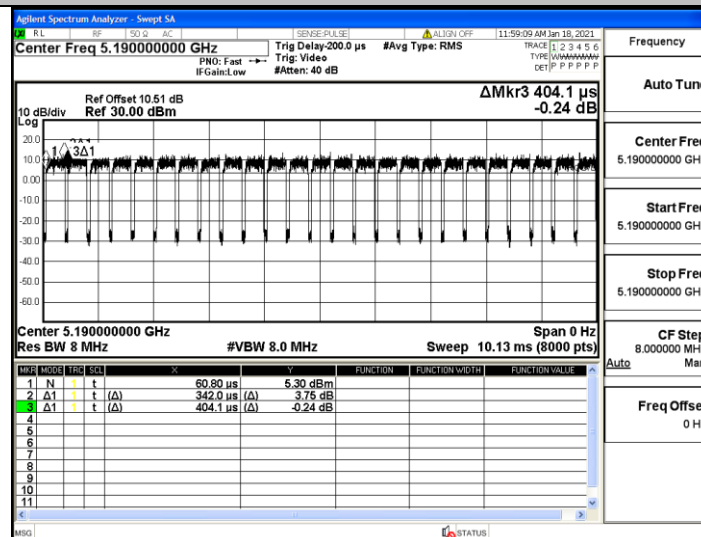
11N20MIMO_Ant2_5240



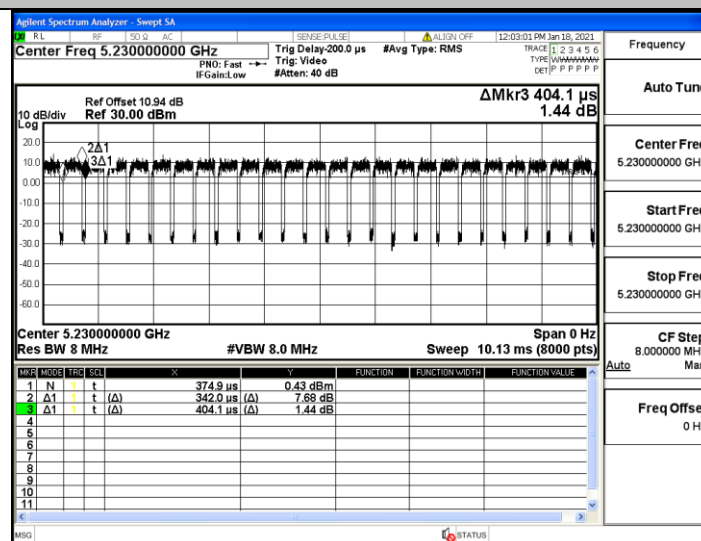
11N40MIMO_Ant1_5190



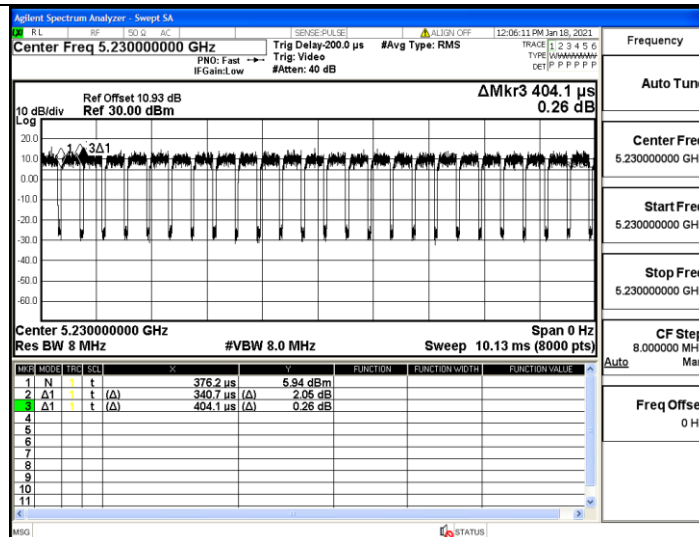
11N40MIMO_Ant2_5190



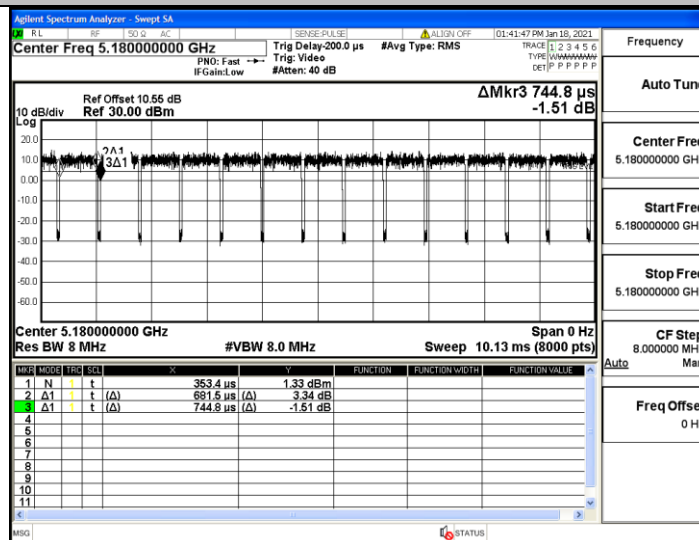
11N40MIMO_Ant1_5230



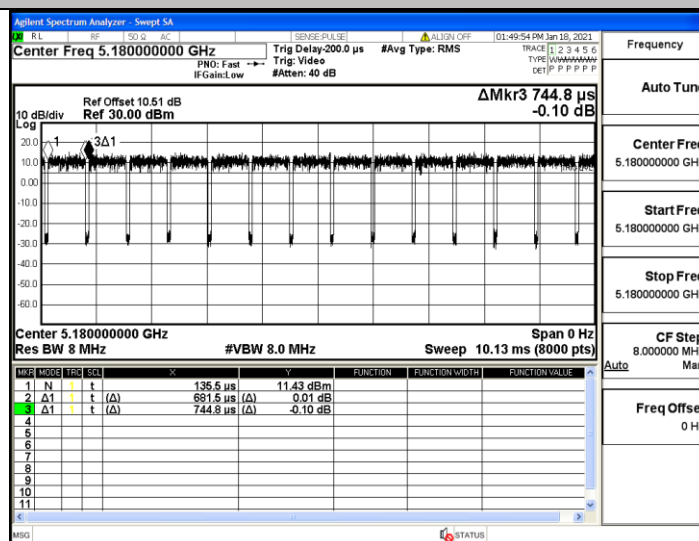
11N40MIMO_Ant2_5230



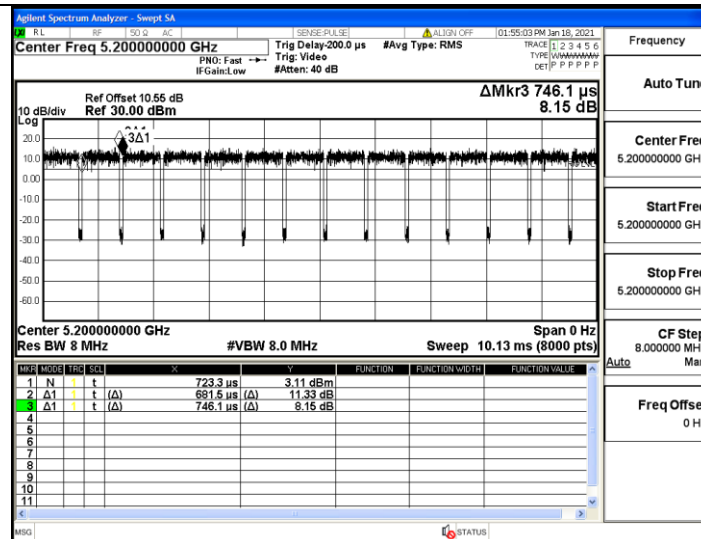
11AC20MIMO_Ant1_5180



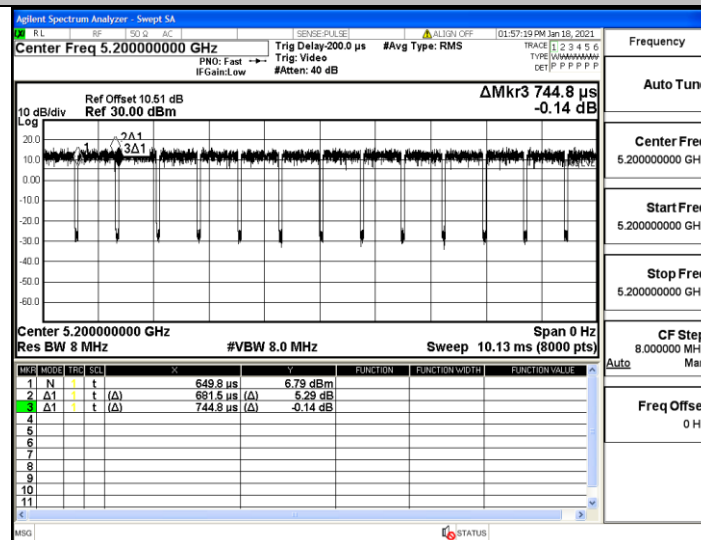
11AC20MIMO_Ant2_5180



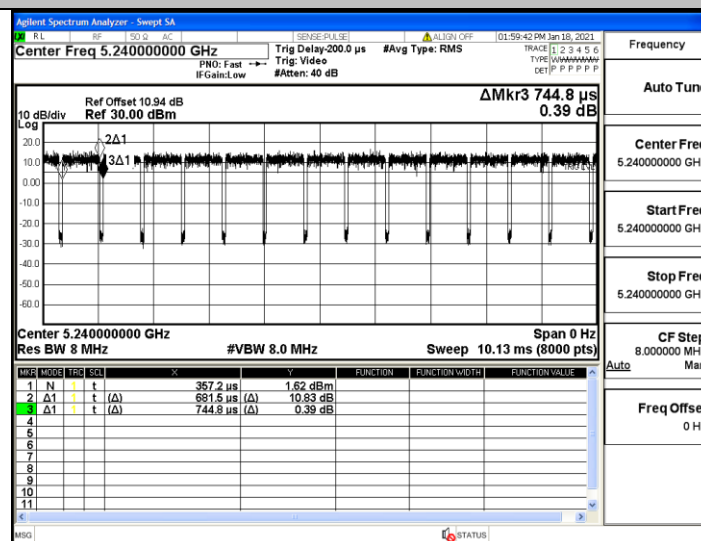
11AC20MIMO_Ant1_5200



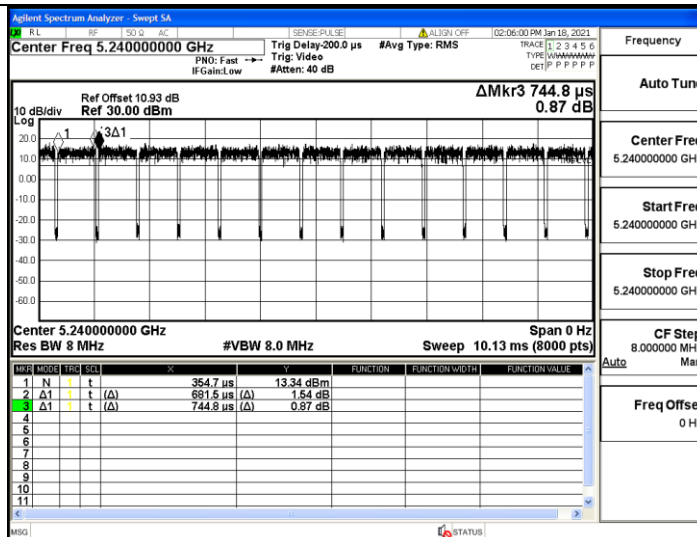
11AC20MIMO_Ant2_5200



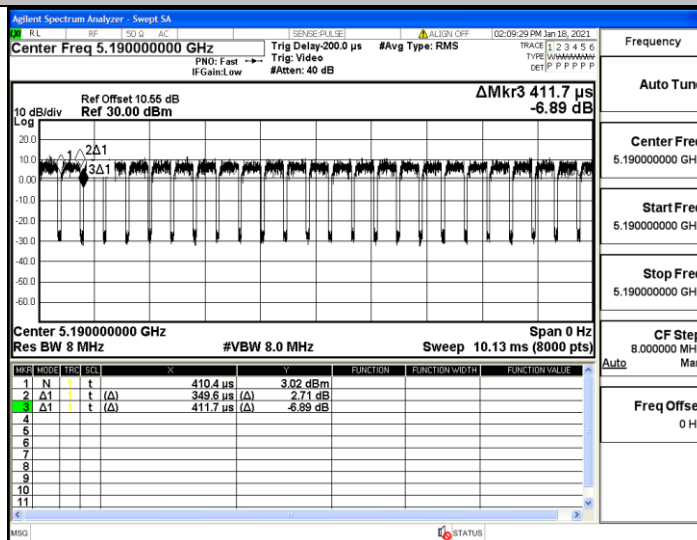
11AC20MIMO_Ant1_5240



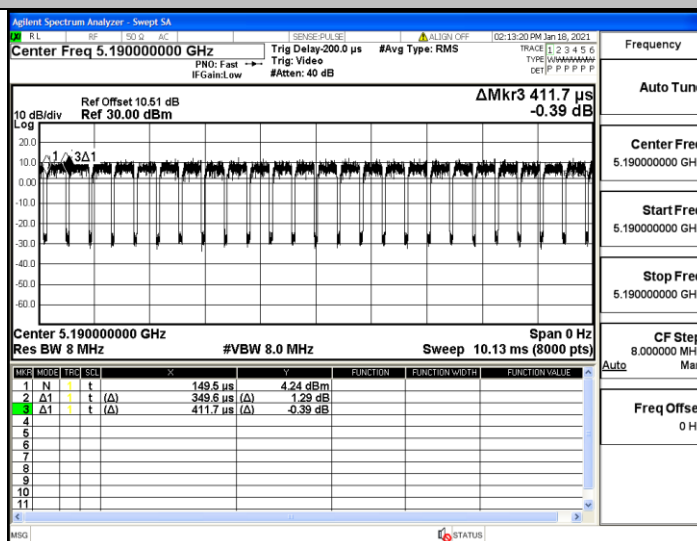
11AC20MIMO_Ant2_5240



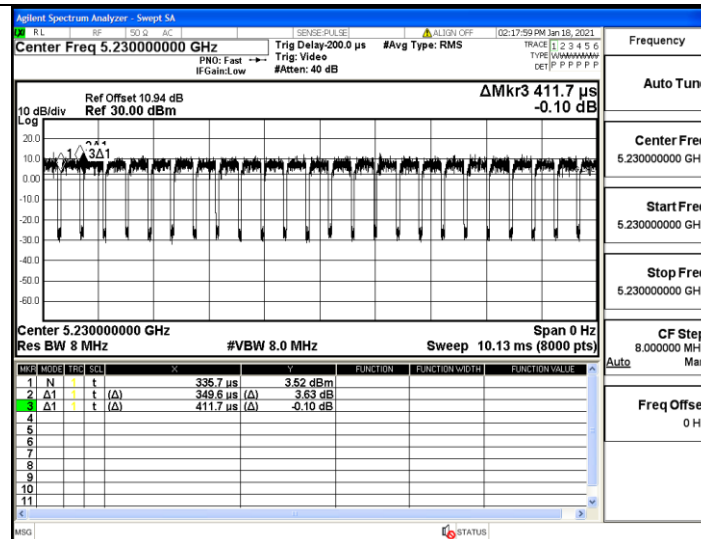
11AC40MIMO_Ant1_5190



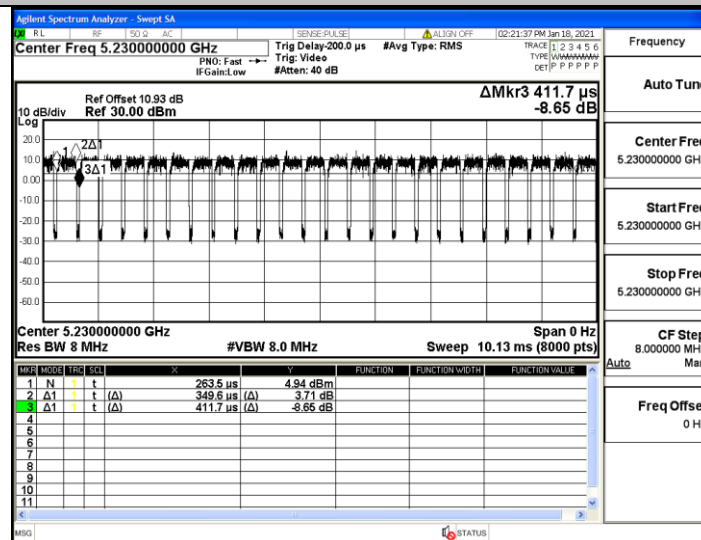
11AC40MIMO_Ant2_5190



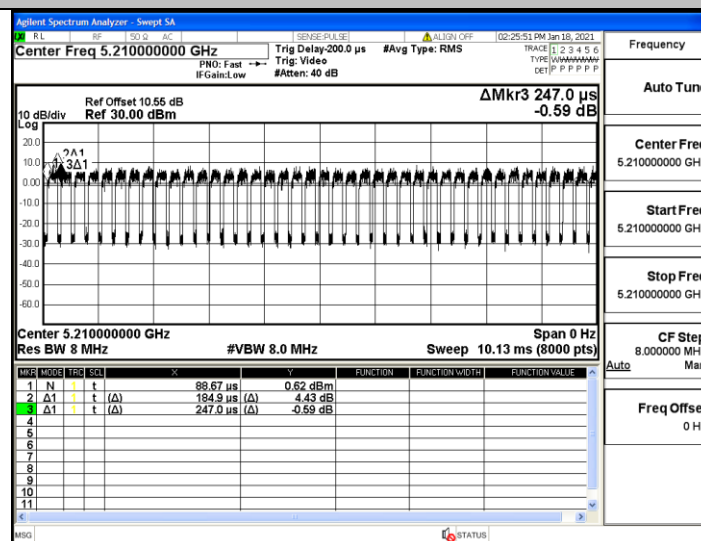
11AC40MIMO_Ant1_5230



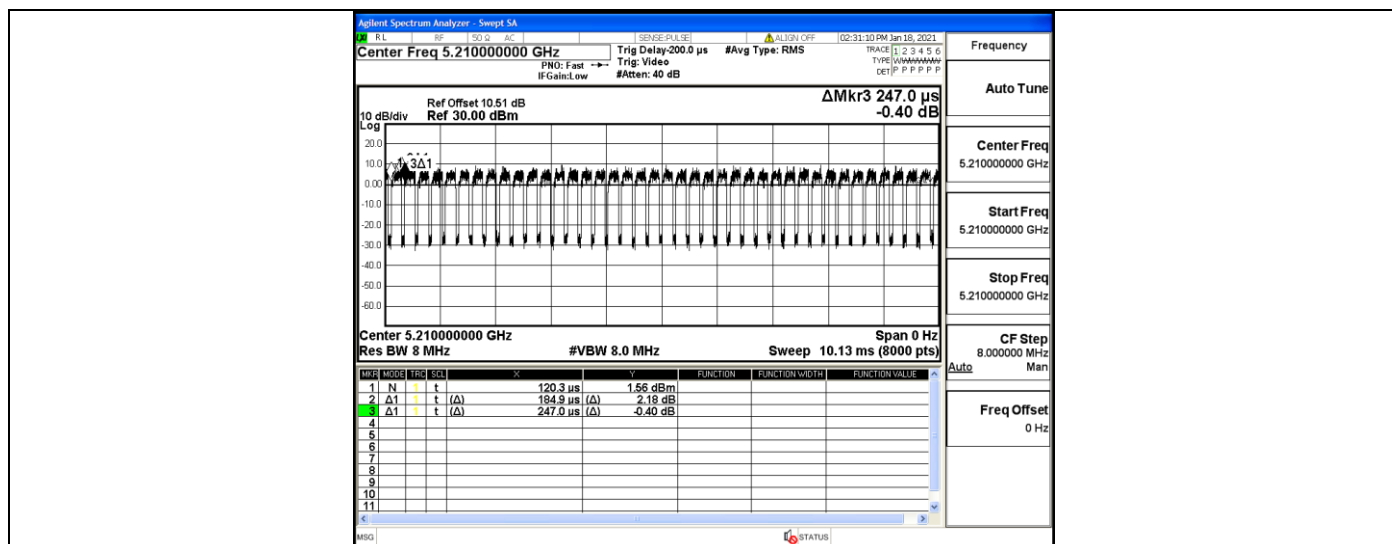
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



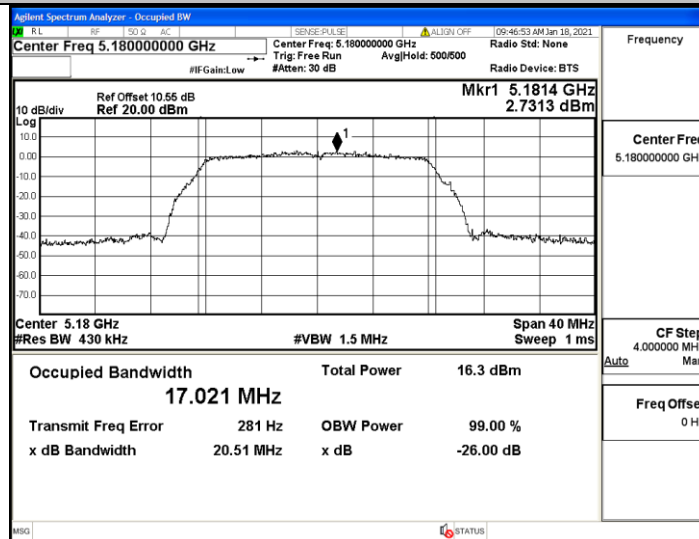
Appendix H: Occupied channel bandwidth

Test Result

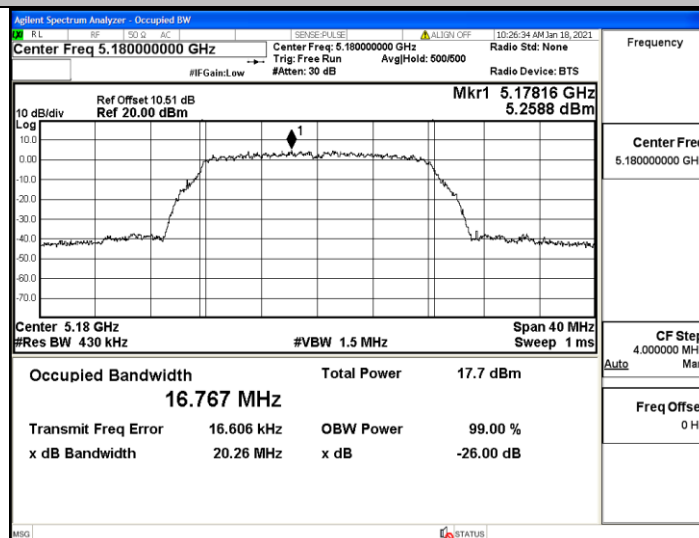
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.021	5171.490	5188.511	---	PASS
	Ant2	5180	16.767	5171.633	5188.400	---	PASS
	Ant1	5200	16.917	5191.561	5208.478	---	PASS
	Ant2	5200	16.732	5191.661	5208.393	---	PASS
	Ant1	5240	17.101	5231.534	5248.635	---	PASS
	Ant2	5240	16.815	5231.693	5248.508	---	PASS
11N20MIMO	Ant1	5180	17.940	5171.034	5188.974	---	PASS
	Ant2	5180	17.727	5171.153	5188.880	---	PASS
	Ant1	5200	17.810	5191.128	5208.938	---	PASS
	Ant2	5200	17.644	5191.196	5208.840	---	PASS
	Ant1	5240	17.885	5231.110	5248.995	---	PASS
	Ant2	5240	17.821	5231.144	5248.965	---	PASS
11N40MIMO	Ant1	5190	36.273	5171.930	5208.203	---	PASS
	Ant2	5190	36.384	5171.895	5208.279	---	PASS
	Ant1	5230	36.513	5211.835	5248.348	---	PASS
	Ant2	5230	36.643	5211.786	5248.429	---	PASS
11AC20MIMO	Ant1	5180	17.868	5171.109	5188.977	---	PASS
	Ant2	5180	17.727	5171.149	5188.876	---	PASS
	Ant1	5200	17.787	5191.132	5208.919	---	PASS
	Ant2	5200	17.646	5191.199	5208.845	---	PASS
	Ant1	5240	17.865	5231.121	5248.986	---	PASS
	Ant2	5240	17.743	5231.186	5248.929	---	PASS
11AC40MIMO	Ant1	5190	36.382	5171.923	5208.305	---	PASS
	Ant2	5190	36.186	5171.974	5208.160	---	PASS
	Ant1	5230	36.424	5211.904	5248.328	---	PASS
	Ant2	5230	36.355	5211.897	5248.252	---	PASS
11AC80MIMO	Ant1	5210	75.524	5172.495	5248.019	---	PASS
	Ant2	5210	75.418	5172.507	5247.925	---	PASS

Test Graphs

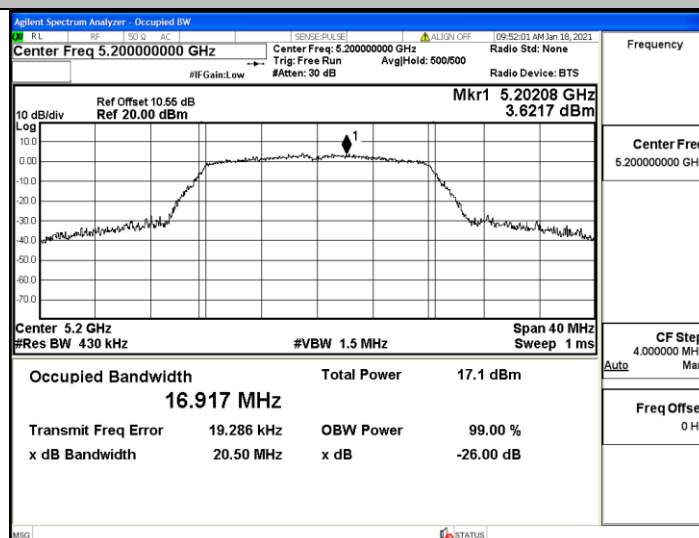
11A_Ant1_5180



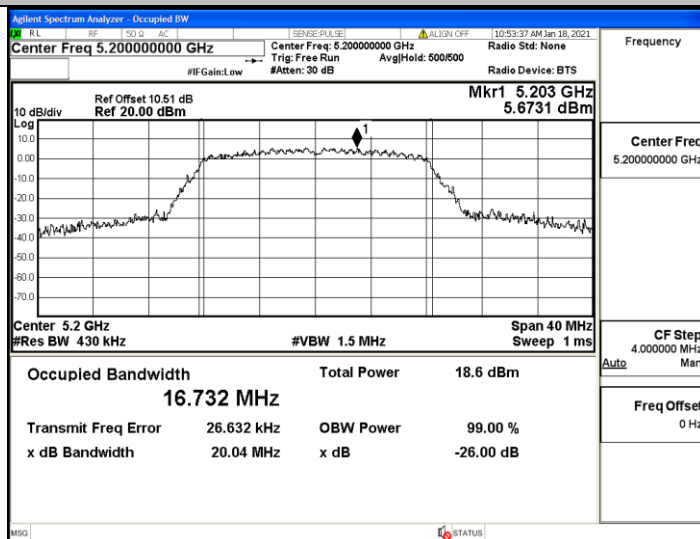
11A_Ant2_5180



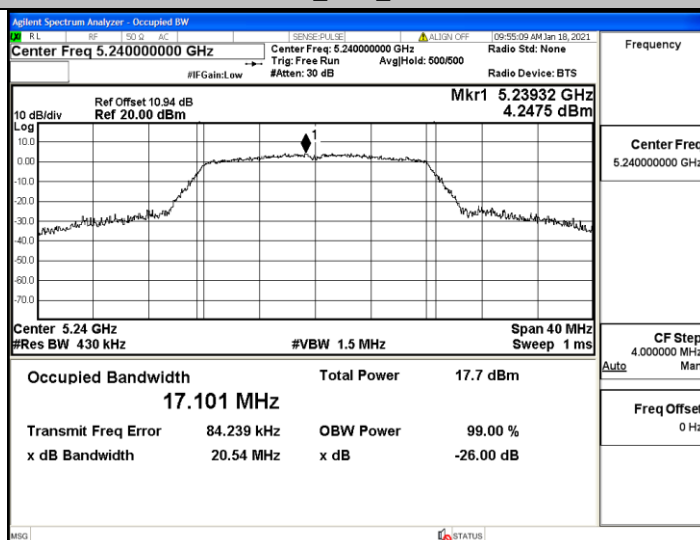
11A_Ant1_5200



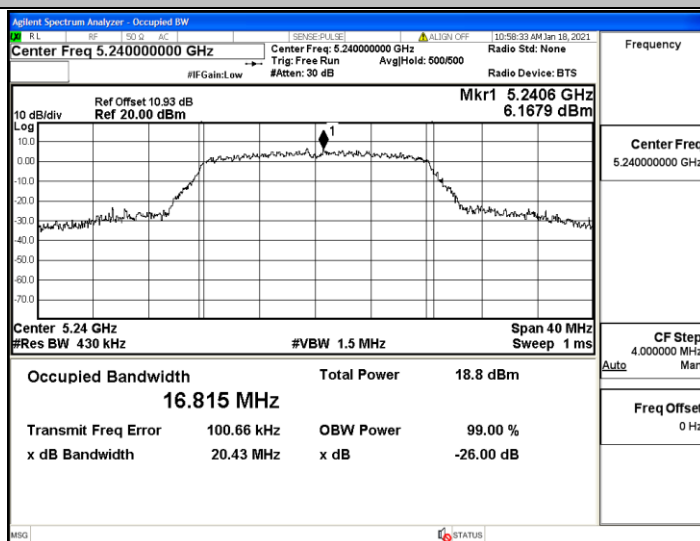
11A_Ant2_5200



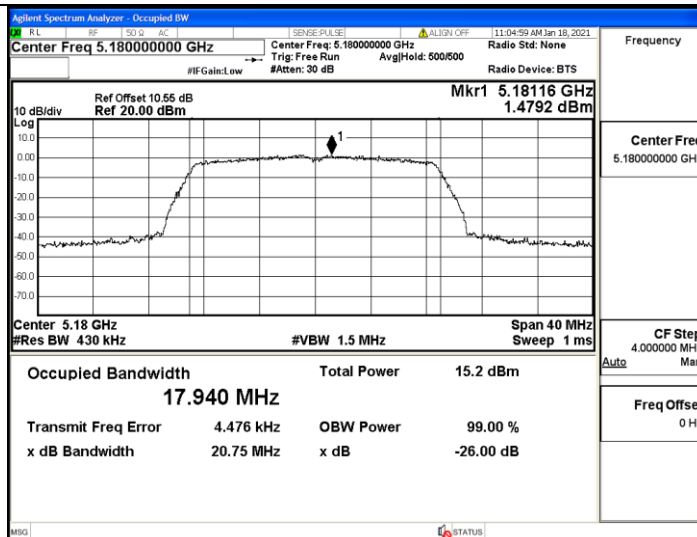
11A_Ant1_5240



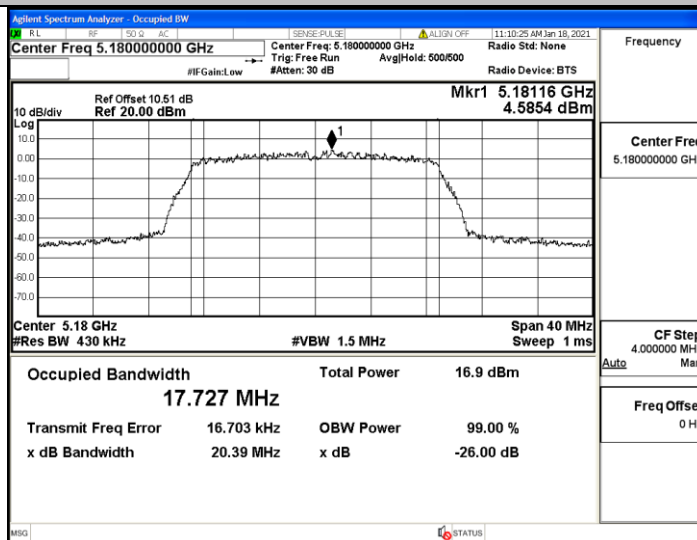
11A_Ant2_5240



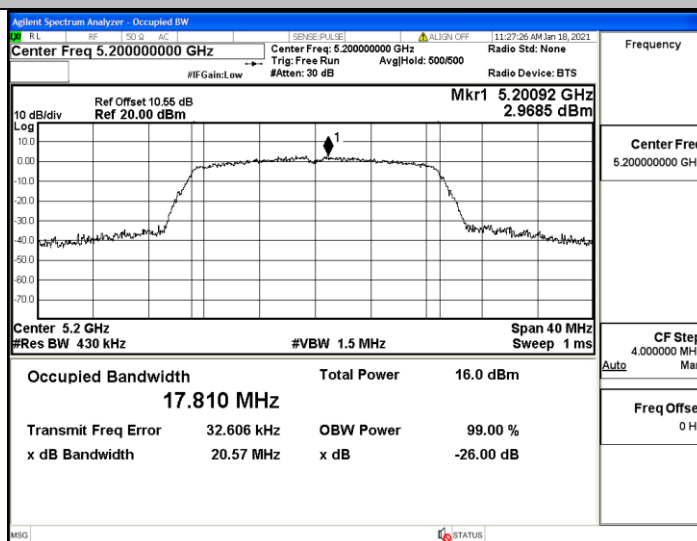
11N20MIMO_Ant1_5180



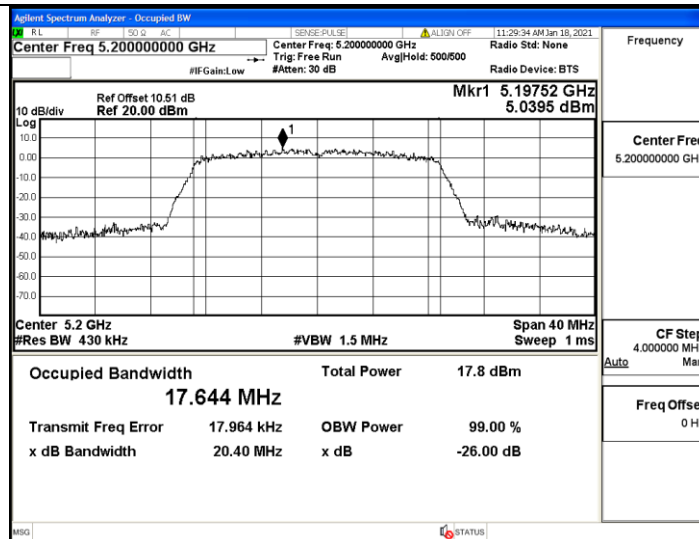
11N20MIMO_Ant2_5180



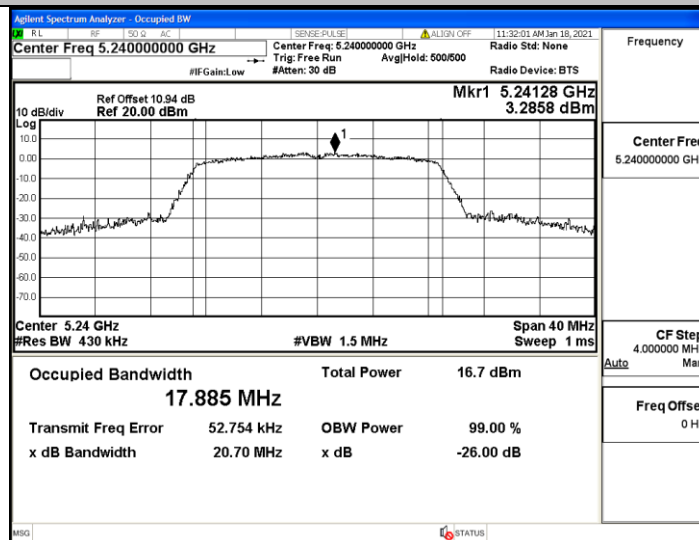
11N20MIMO_Ant1_5200



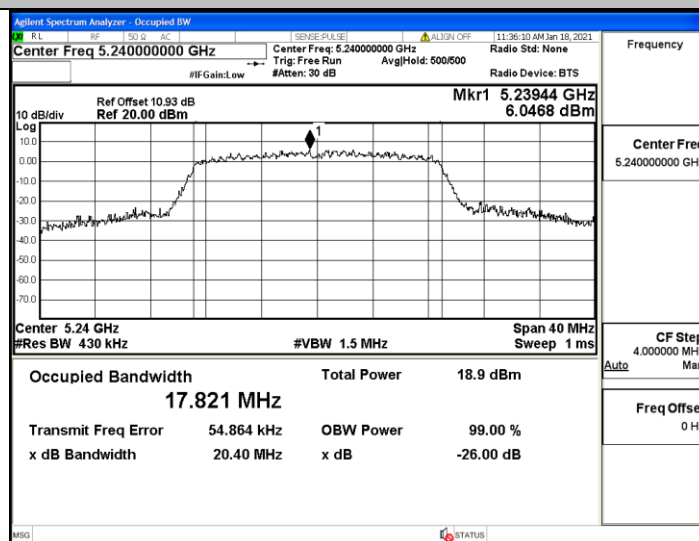
11N20MIMO_Ant2_5200



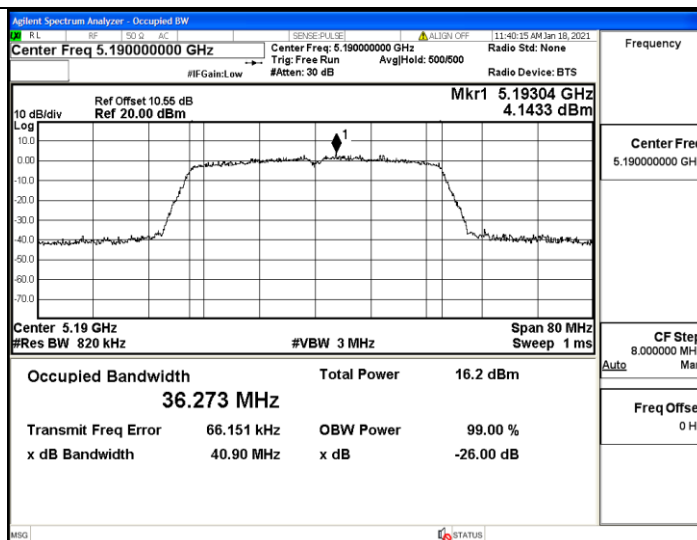
11N20MIMO_Ant1_5240



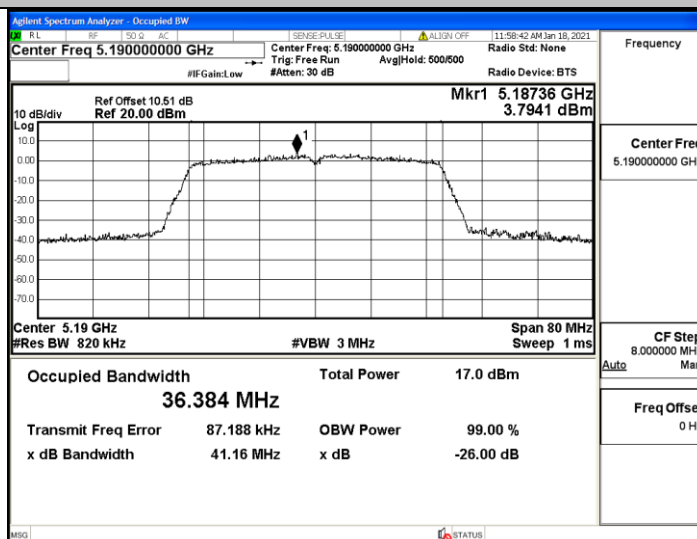
11N20MIMO_Ant2_5240



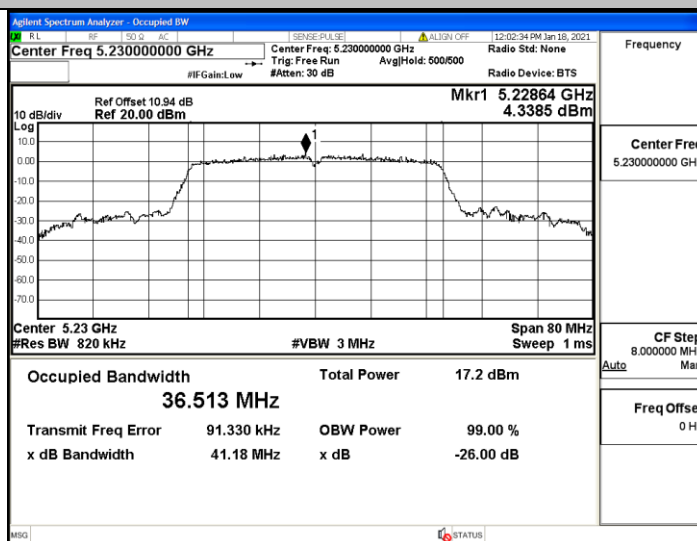
11N40MIMO_Ant1_5190



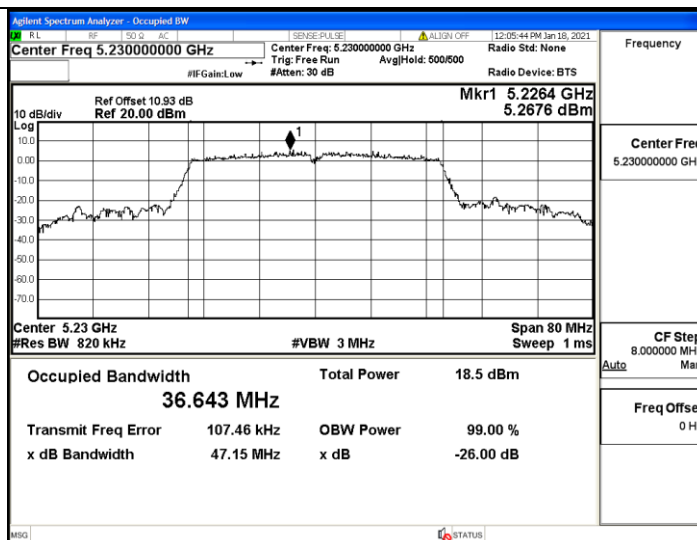
11N40MIMO_Ant2_5190



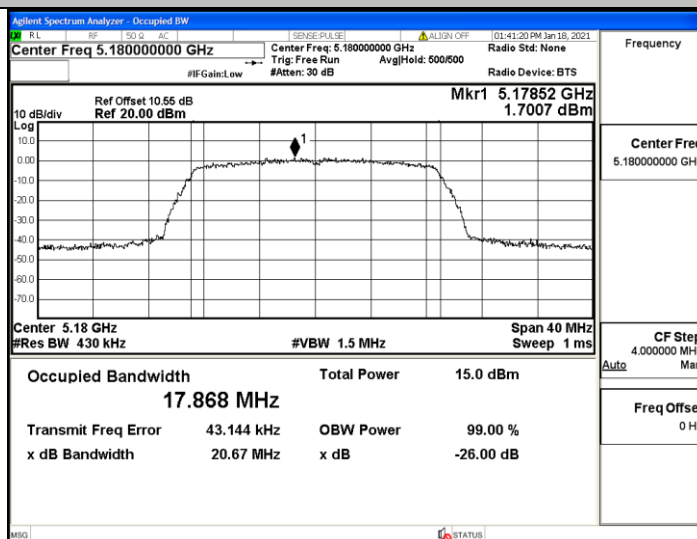
11N40MIMO_Ant1_5230



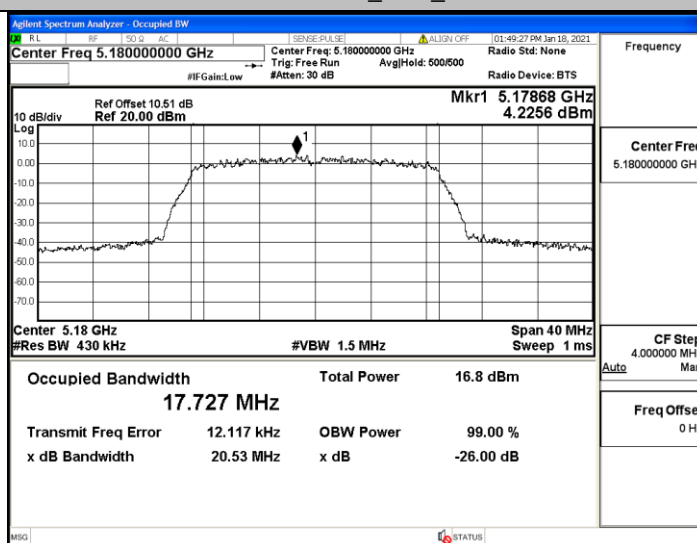
11N40MIMO_Ant2_5230



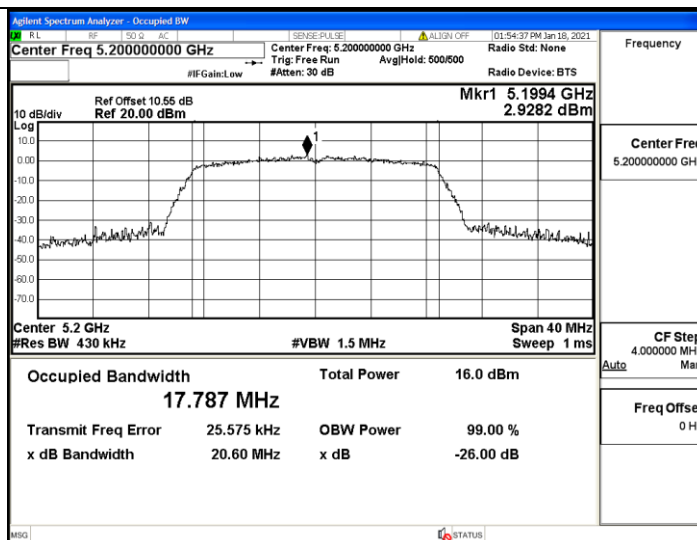
11AC20MIMO_Ant1_5180



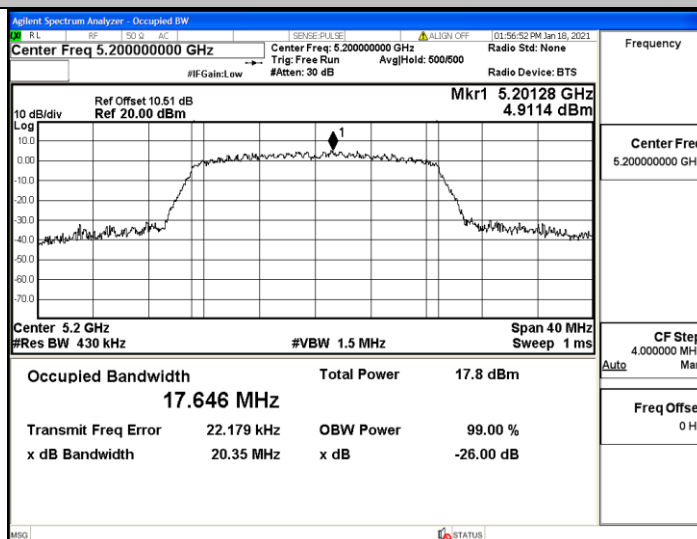
11AC20MIMO_Ant2_5180



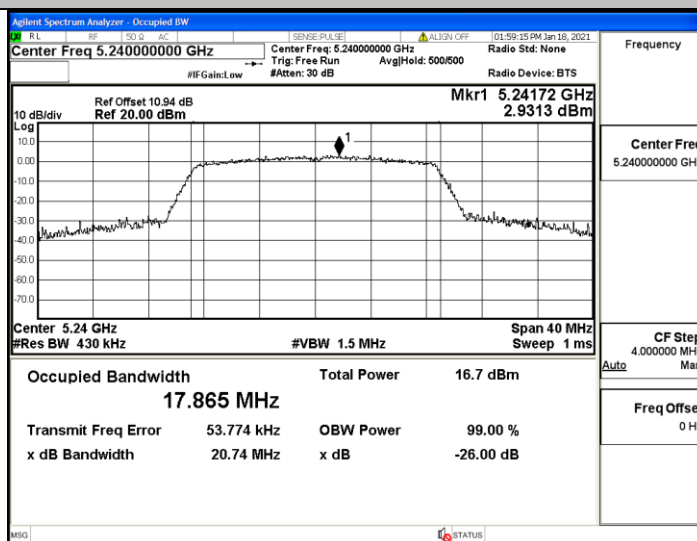
11AC20MIMO_Ant1_5200



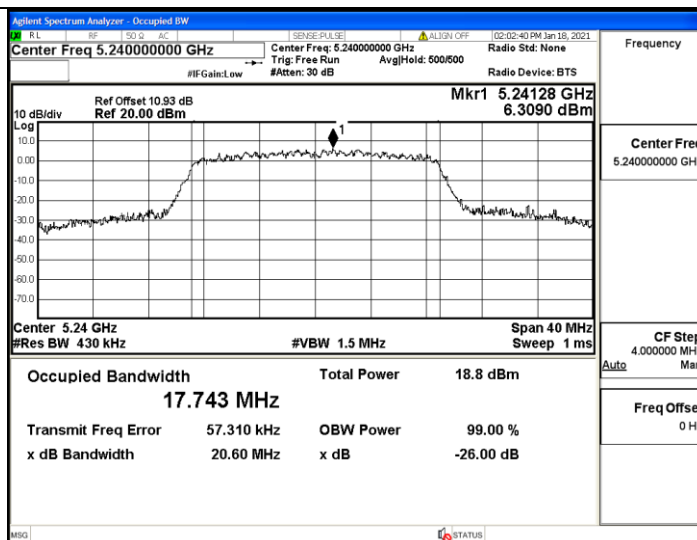
11AC20MIMO_Ant2_5200



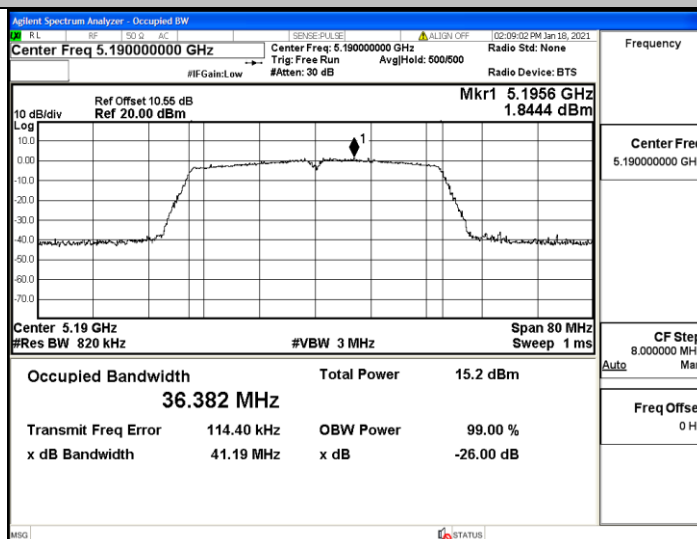
11AC20MIMO_Ant1_5240



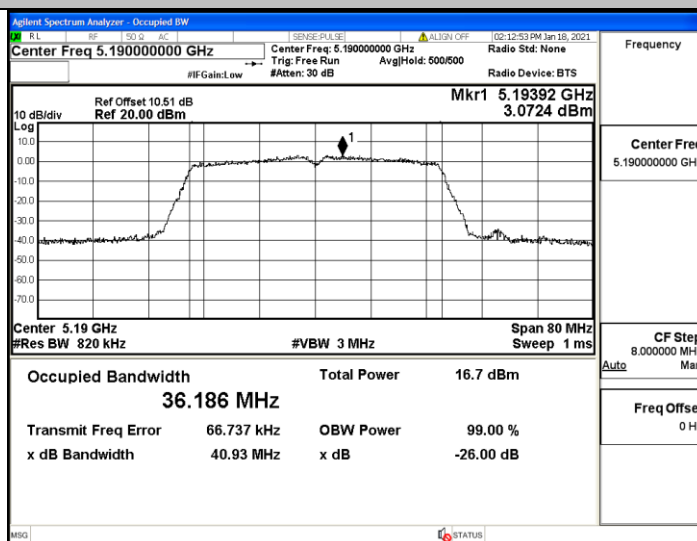
11AC20MIMO_Ant2_5240



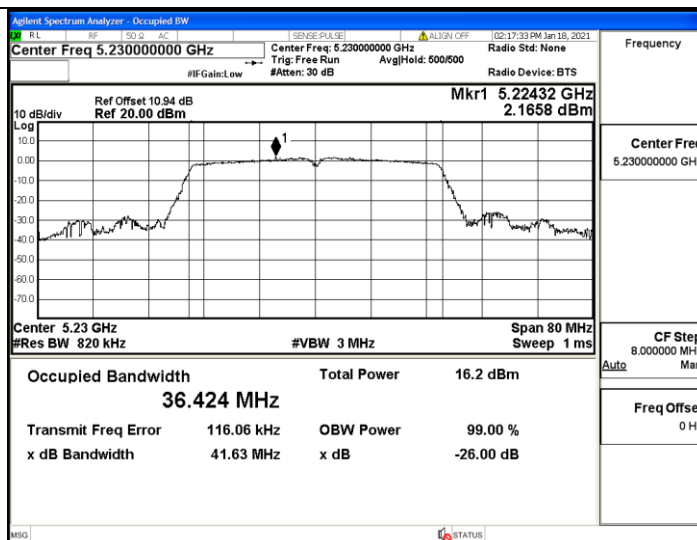
11AC40MIMO_Ant1_5190



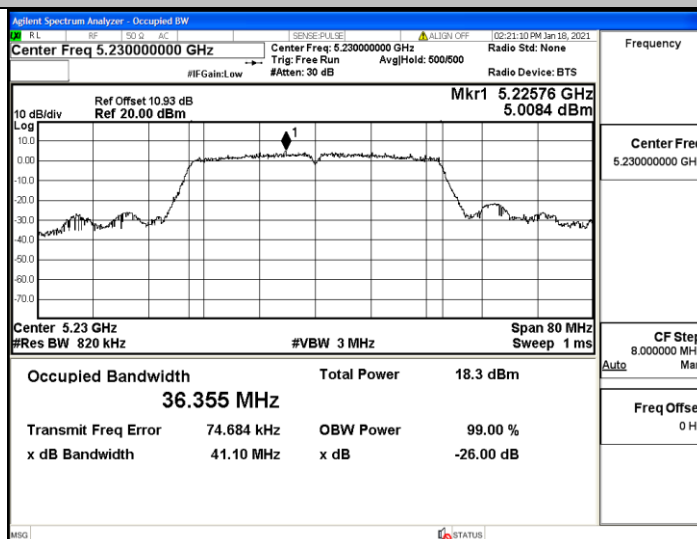
11AC40MIMO_Ant2_5190



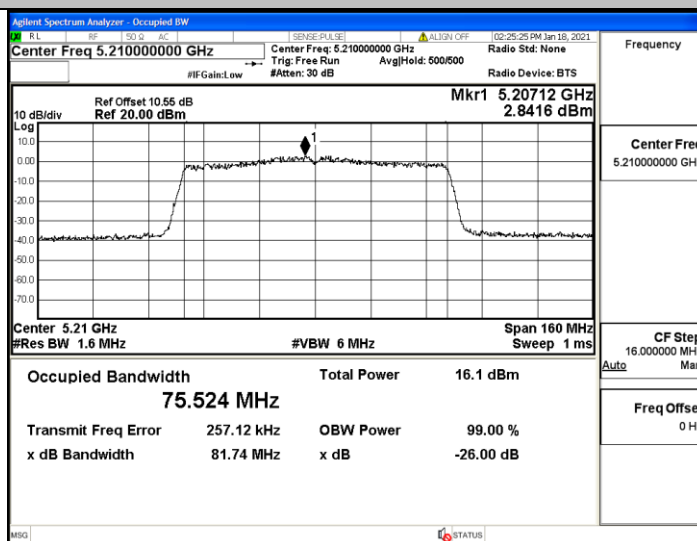
11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

