

## RF Test Data for RLAN(5.2G) (Conducted Measurement)

**Product Name: 4K Set Top Box**

**Trade Mark: Force1**

**Test Model: IPA2114HDW**

**FCC ID: 2AOVU-IPA2114HDW**

**IC: 25669-IPA2114HDW**

### Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

### Appendix A1: Emission Bandwidth

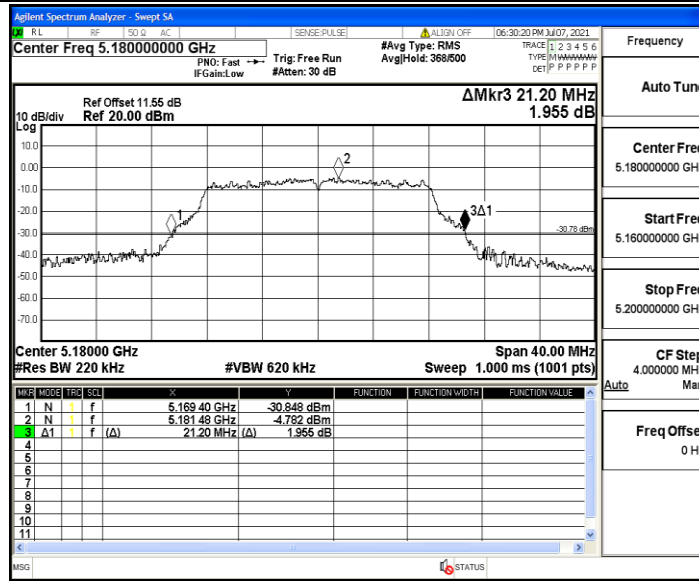
#### Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.200	5169.400	5190.600	---	PASS
	Ant2	5180	21.760	5168.920	5190.680	---	PASS
	Ant1	5200	21.280	5189.360	5210.640	---	PASS
	Ant2	5200	23.760	5187.040	5210.800	---	PASS
	Ant1	5240	21.280	5229.360	5250.640	---	PASS
	Ant2	5240	21.240	5229.240	5250.480	---	PASS
11N20MIMO	Ant1	5180	21.320	5169.440	5190.760	---	PASS
	Ant2	5180	21.240	5169.520	5190.760	---	PASS
	Ant1	5200	21.640	5189.240	5210.880	---	PASS
	Ant2	5200	21.360	5189.280	5210.640	---	PASS
	Ant1	5240	21.520	5229.240	5250.760	---	PASS
	Ant2	5240	21.160	5229.480	5250.640	---	PASS
11N40MIMO	Ant1	5190	40.080	5169.920	5210.000	---	PASS
	Ant2	5190	39.200	5170.640	5209.840	---	PASS
	Ant1	5230	39.600	5210.320	5249.920	---	PASS
	Ant2	5230	39.600	5210.400	5250.000	---	PASS
11AC20MIMO	Ant1	5180	21.440	5169.320	5190.760	---	PASS
	Ant2	5180	21.480	5169.360	5190.840	---	PASS
	Ant1	5200	21.480	5189.160	5210.640	---	PASS
	Ant2	5200	21.880	5189.040	5210.920	---	PASS
	Ant1	5240	21.440	5229.240	5250.680	---	PASS
	Ant2	5240	21.400	5229.360	5250.760	---	PASS
11AC40MIMO	Ant1	5190	40.160	5169.920	5210.080	---	PASS

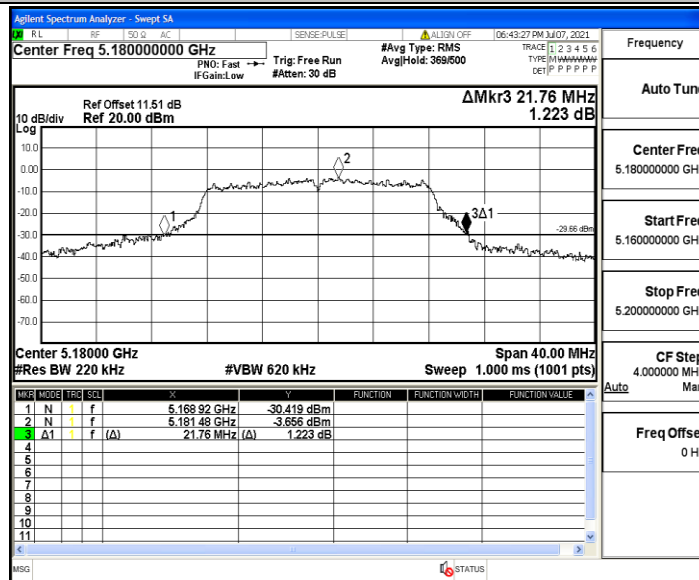
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant2	5190	40.240	5170.080	5210.320	---	PASS
	Ant1	5230	40.000	5210.080	5250.080	---	PASS
	Ant2	5230	40.160	5210.160	5250.320	---	PASS
11AC80MIMO	Ant1	5210	81.440	5169.680	5251.120	---	PASS
	Ant2	5210	81.600	5170.000	5251.600	---	PASS
11AX20MIMO	Ant1	5180	21.520	5169.200	5190.720	---	PASS
	Ant2	5180	21.200	5169.560	5190.760	---	PASS
	Ant1	5200	21.360	5189.360	5210.720	---	PASS
	Ant2	5200	21.520	5189.240	5210.760	---	PASS
	Ant1	5240	21.360	5229.240	5250.600	---	PASS
	Ant2	5240	21.280	5229.400	5250.680	---	PASS
11AX40MIMO	Ant1	5190	39.840	5170.080	5209.920	---	PASS
	Ant2	5190	39.840	5170.160	5210.000	---	PASS
	Ant1	5230	40.000	5209.920	5249.920	---	PASS
	Ant2	5230	39.680	5210.240	5249.920	---	PASS
11AX80MIMO	Ant1	5210	81.440	5169.520	5250.960	---	PASS
	Ant2	5210	81.120	5170.000	5251.120	---	PASS

Test Graphs

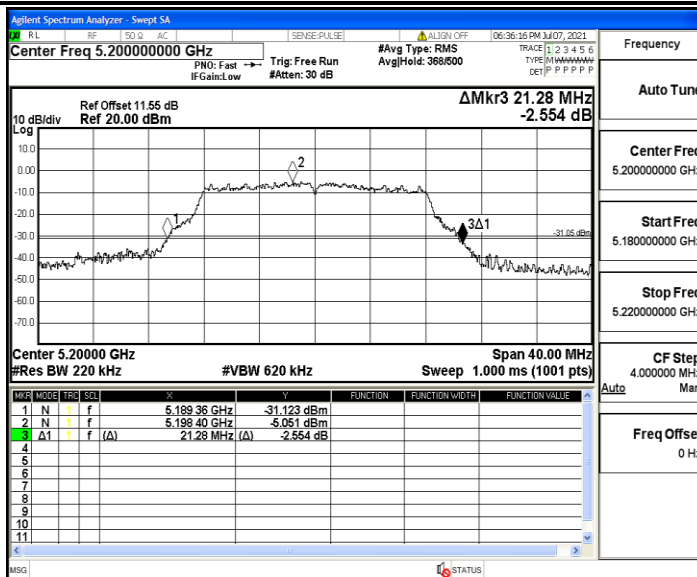
11A\_Ant1\_5180



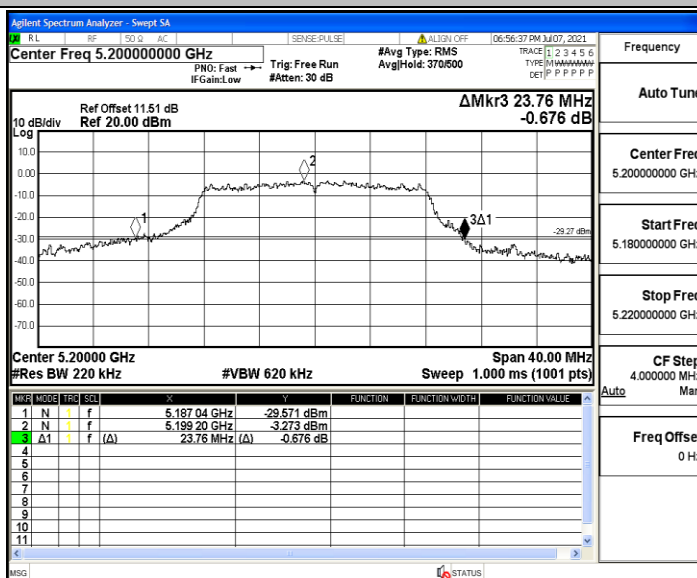
11A\_Ant2\_5180



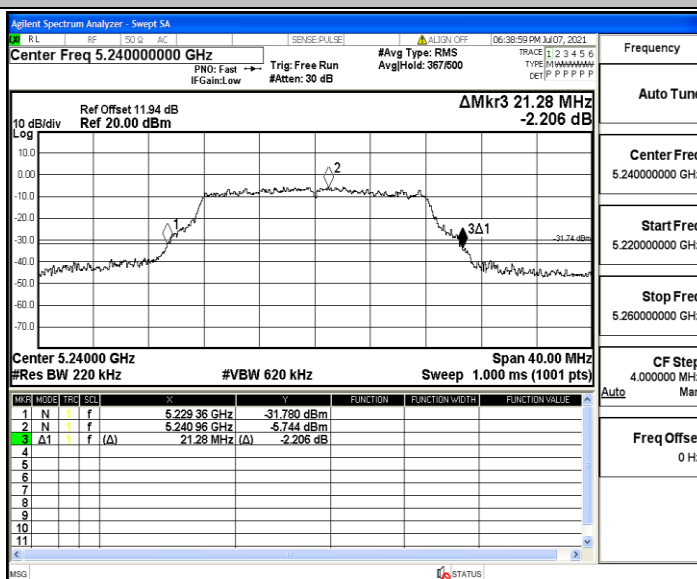
11A\_Ant1\_5200



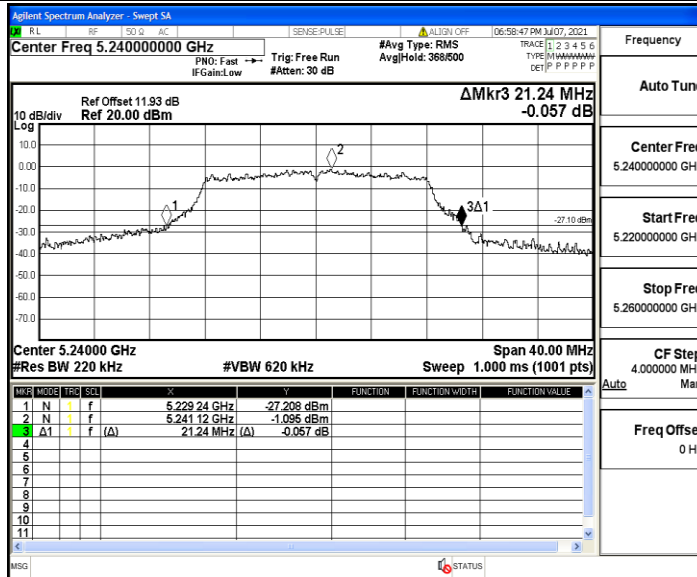
11A\_Ant2\_5200



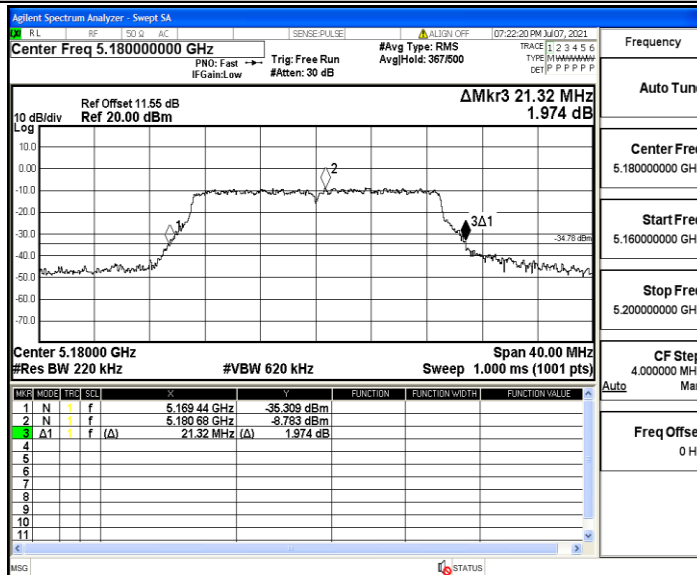
11A\_Ant1\_5240



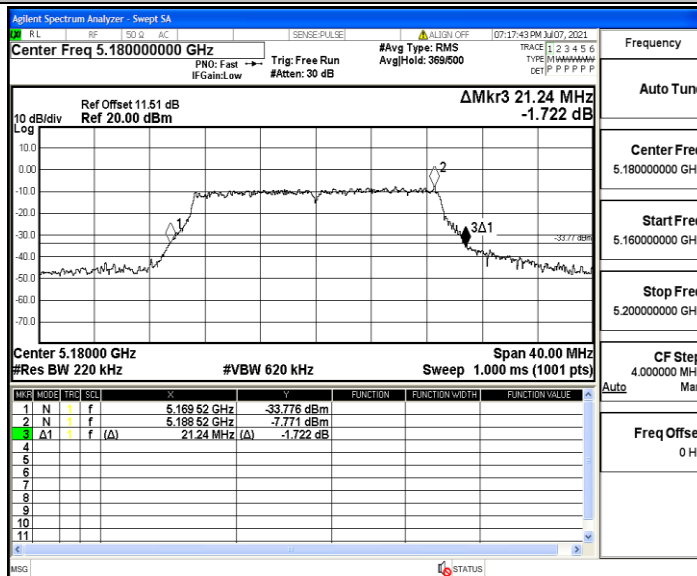
11A\_Ant2\_5240



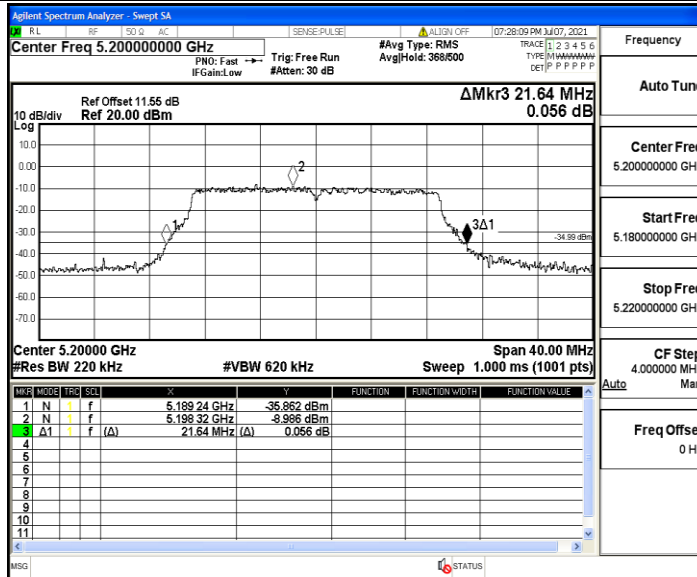
11N20MIMO\_Ant1\_5180



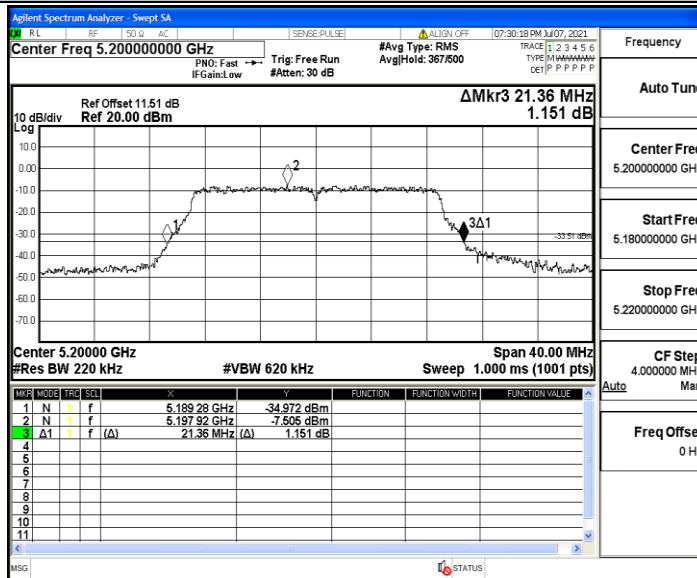
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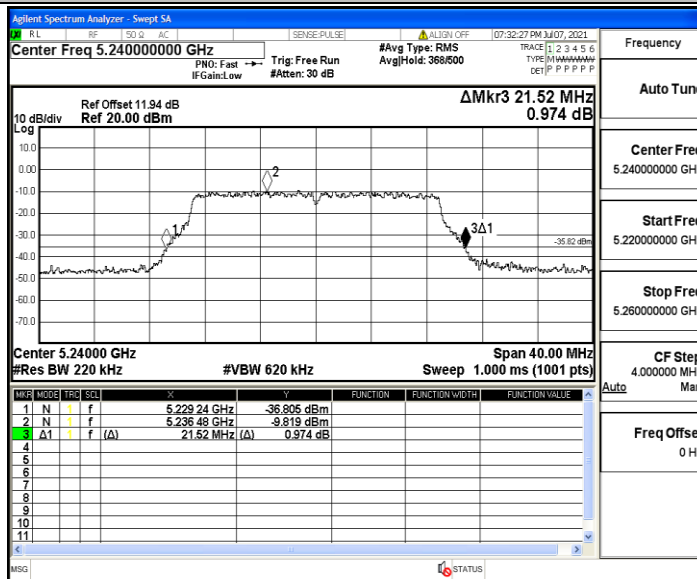
11N20MIMO\_Ant1\_5200



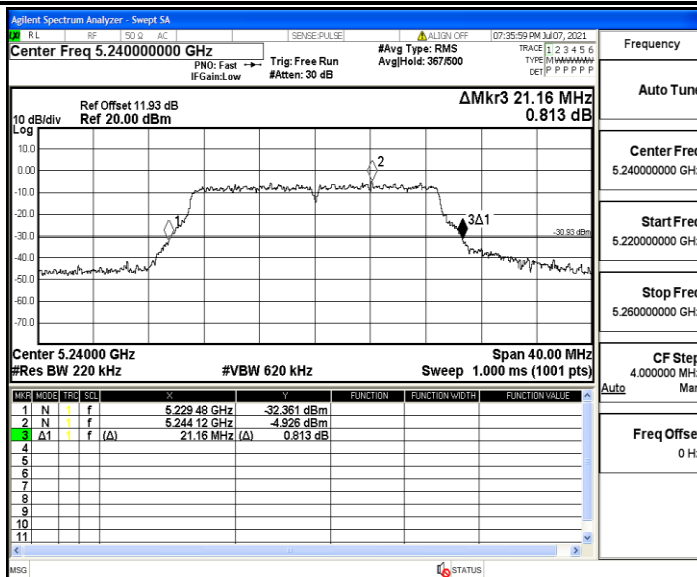
11N20MIMO\_Ant2\_5200



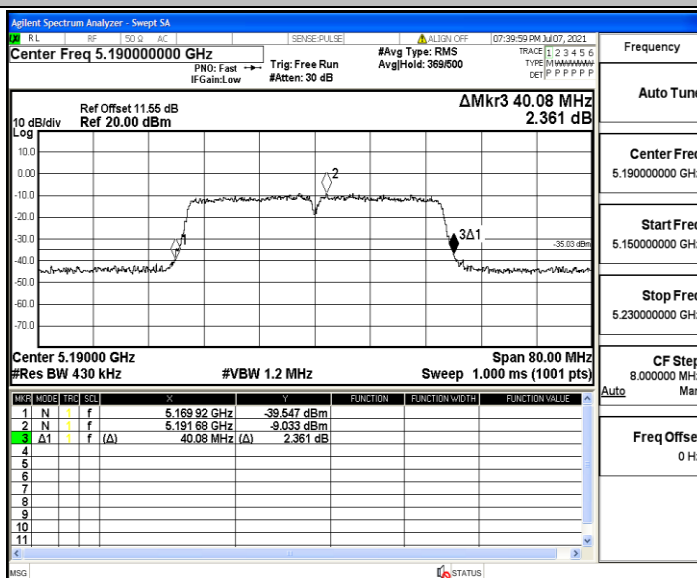
11N20MIMO\_Ant1\_5240



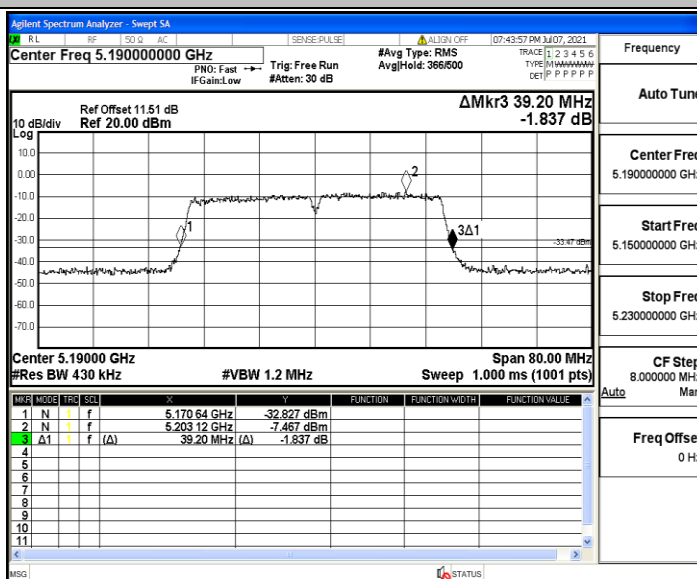
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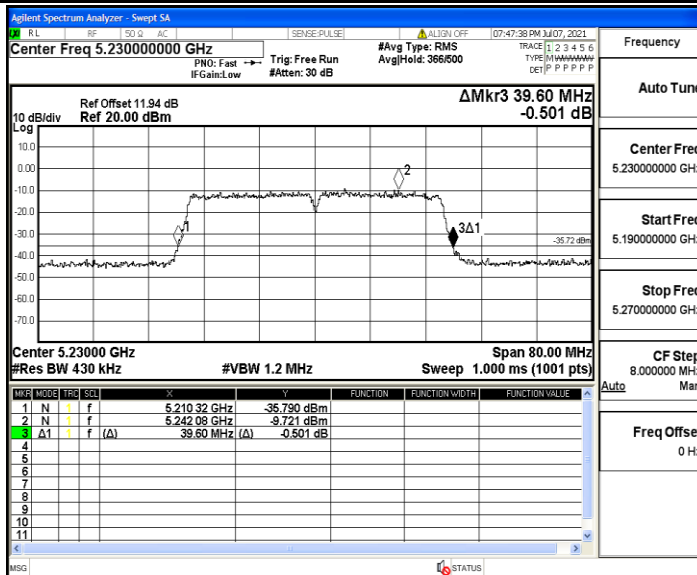
11N40MIMO\_Ant1\_5190



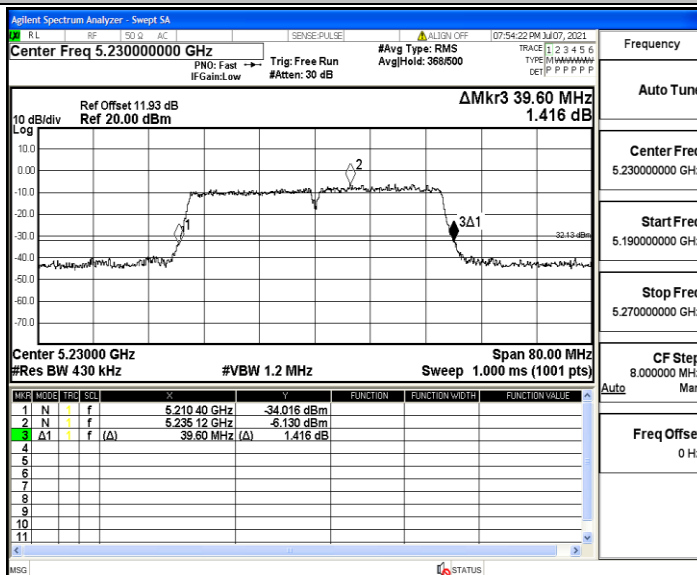
11N40MIMO\_Ant2\_5190



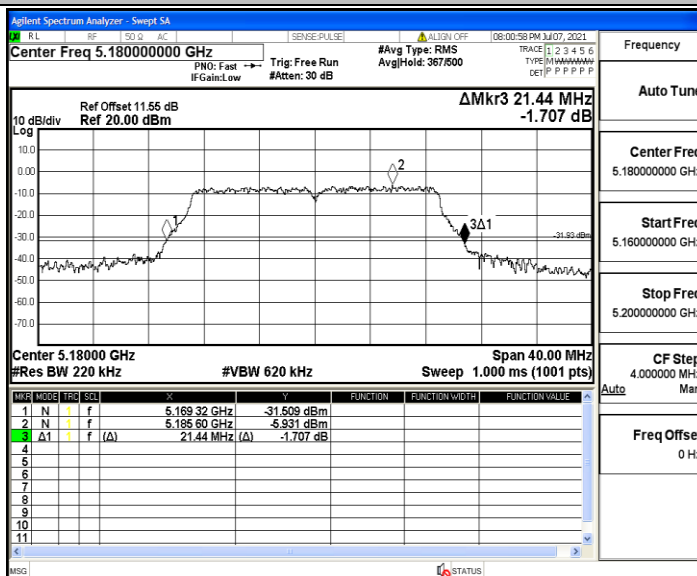
11N40MIMO\_Ant1\_5230



11N40MIMO\_Ant2\_5230

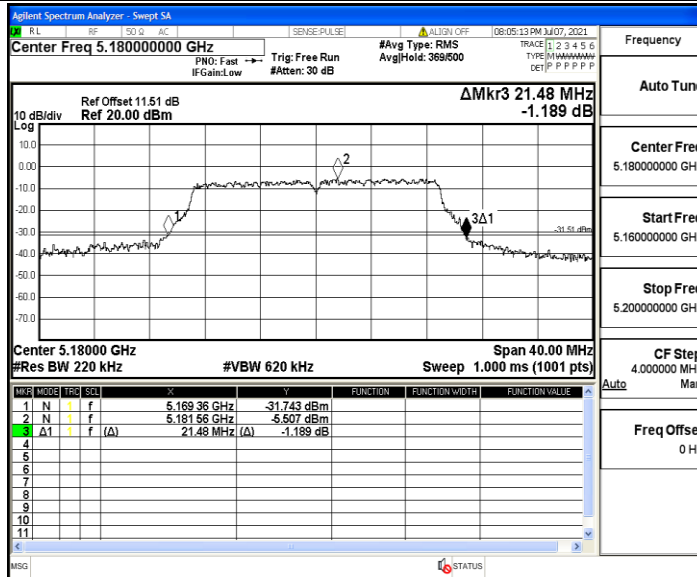


11AC20MIMO\_Ant1\_5180

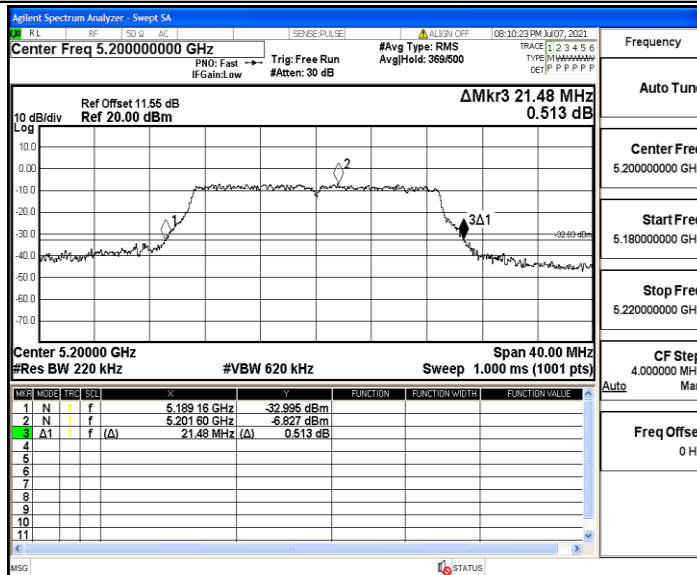


11AC20MIMO\_Ant2\_5180

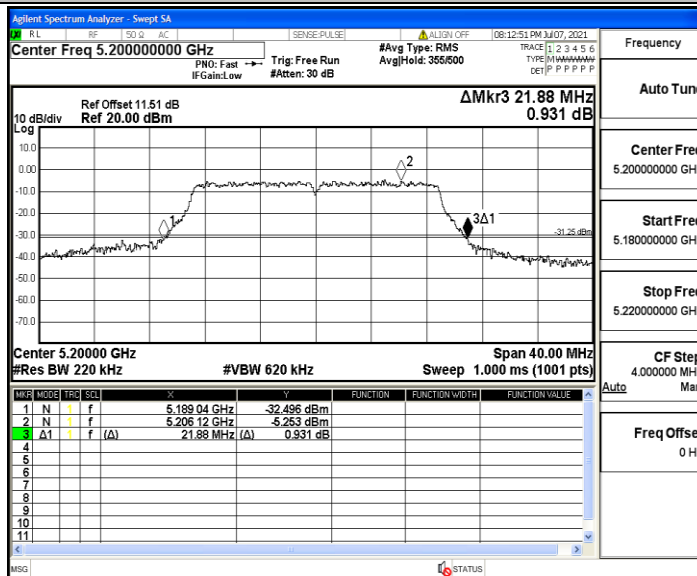




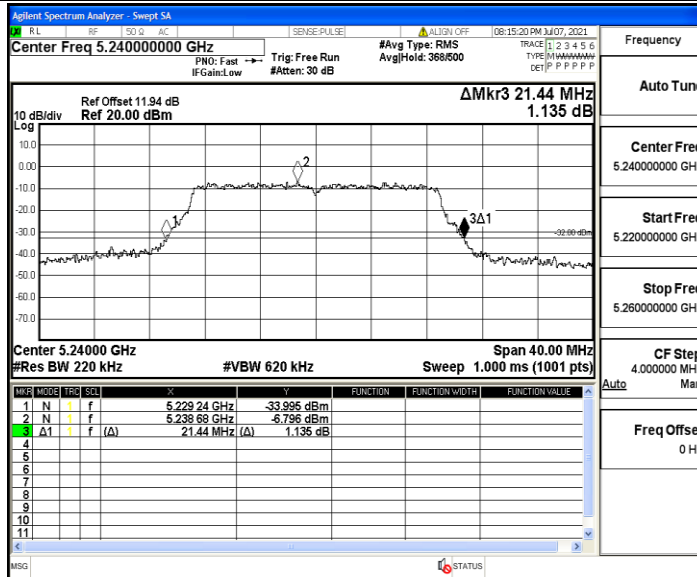
11AC20MIMO\_Ant1\_5200



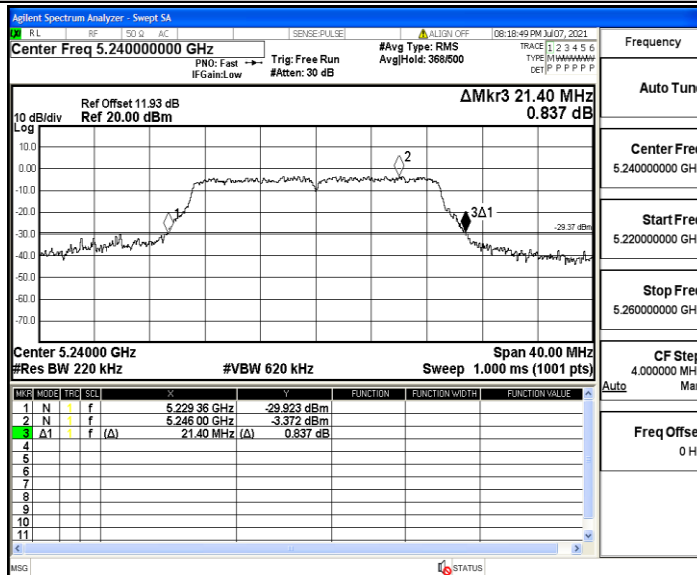
11AC20MIMO\_Ant2\_5200



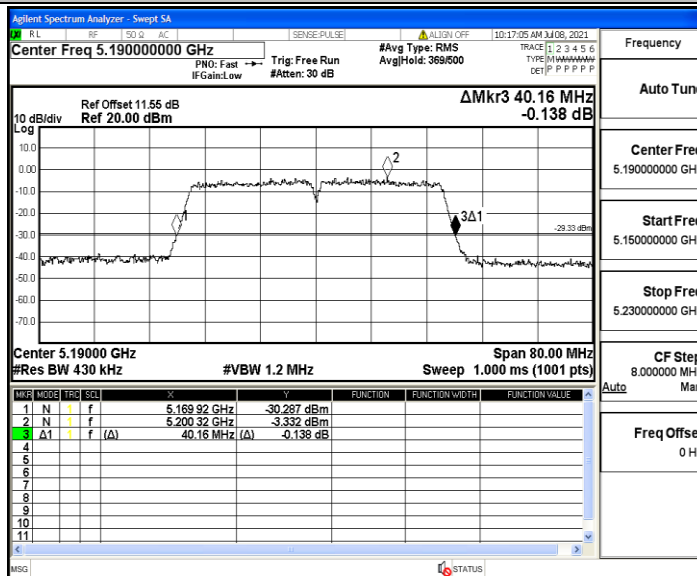
11AC20MIMO\_Ant1\_5240



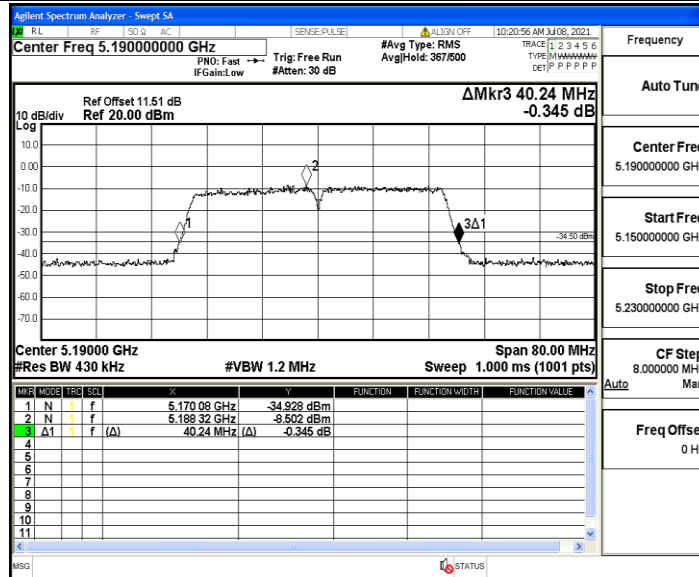
11AC20MIMO\_Ant2\_5240



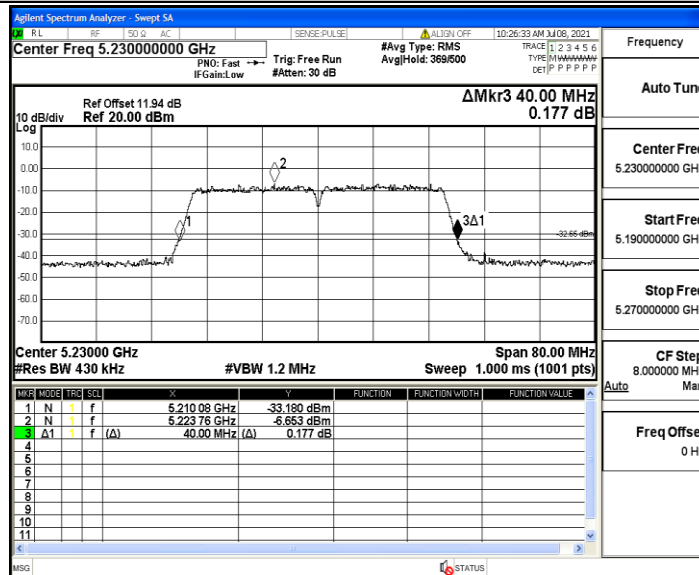
11AC40MIMO\_Ant1\_5190



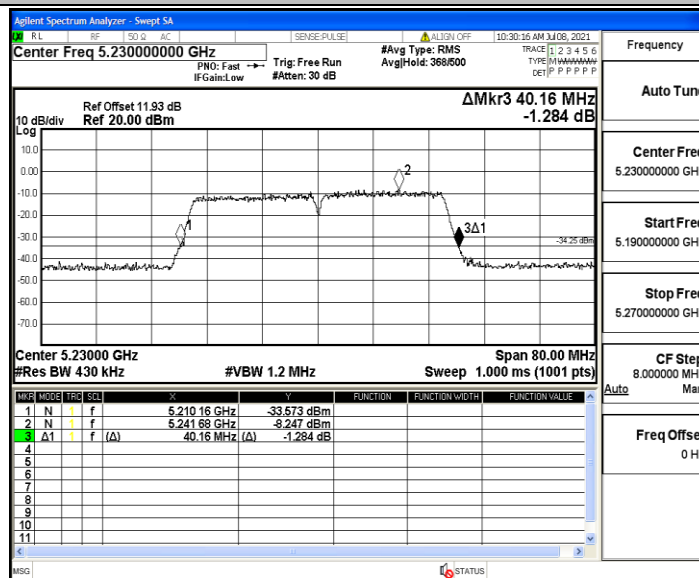
11AC40MIMO\_Ant2\_5190



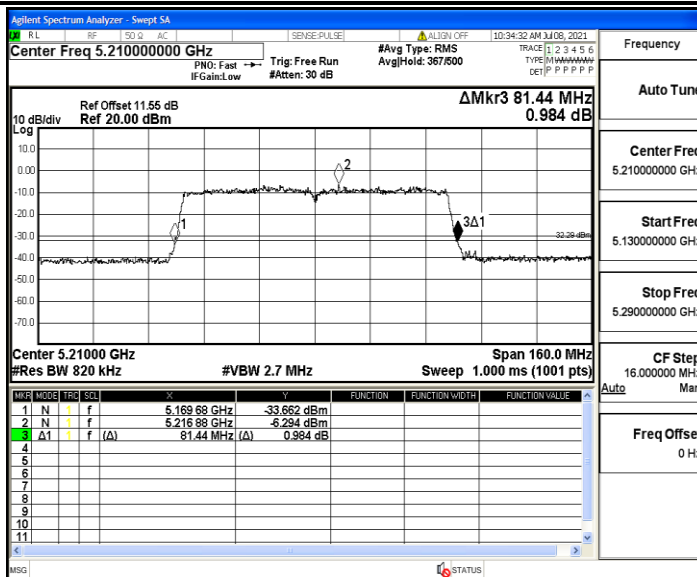
11AC40MIMO\_Ant1\_5230



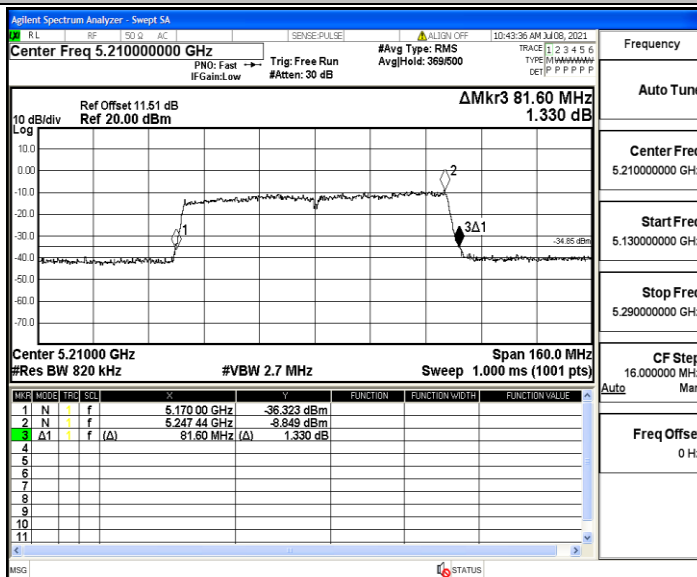
11AC40MIMO\_Ant2\_5230



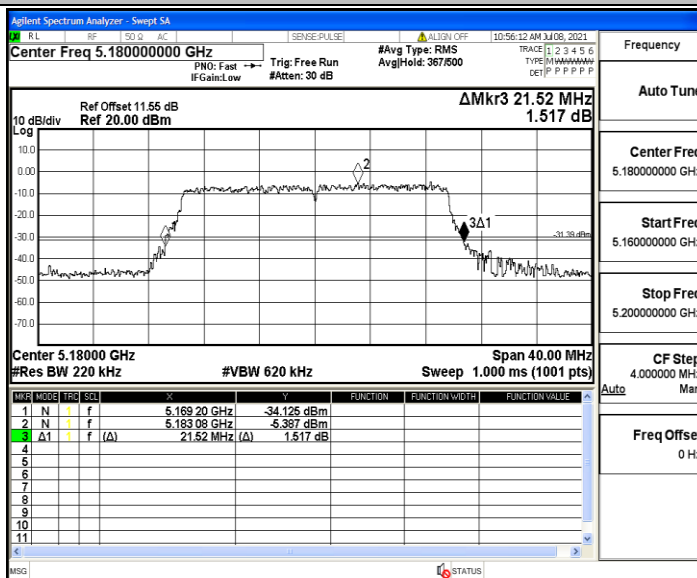
11AC80MIMO\_Ant1\_5210



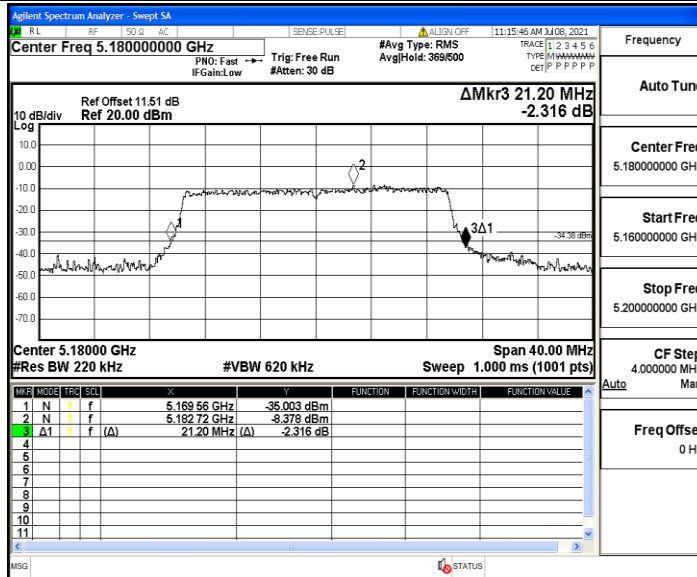
11AC80MIMO\_Ant2\_5210



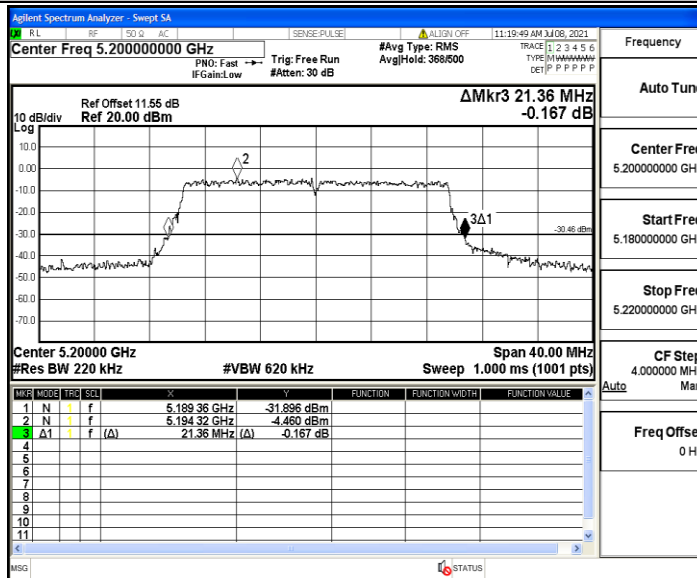
11AX20MIMO\_Ant1\_5180



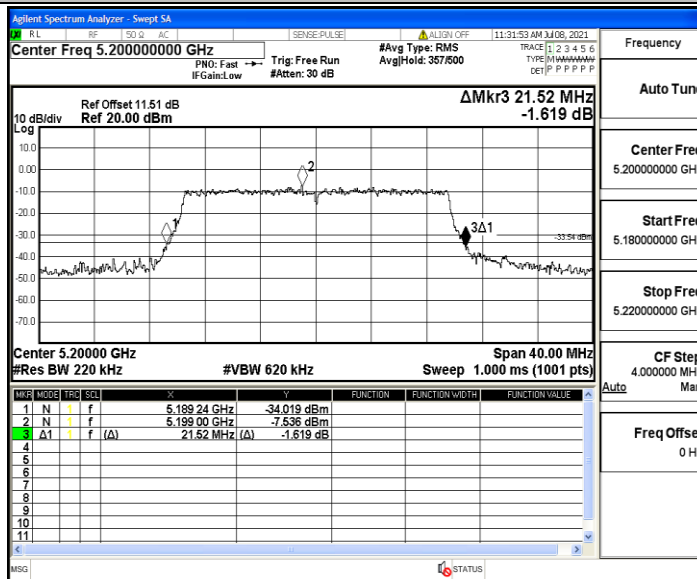
11AX20MIMO\_Ant2\_5180



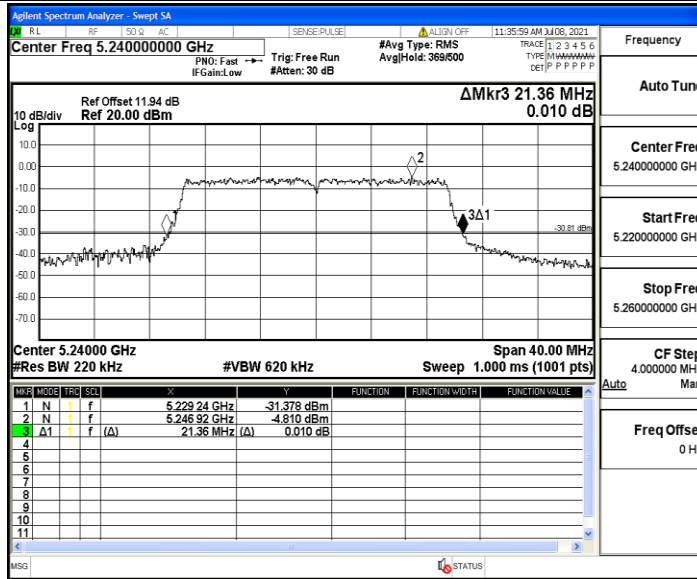
11AX20MIMO\_Ant1\_5200



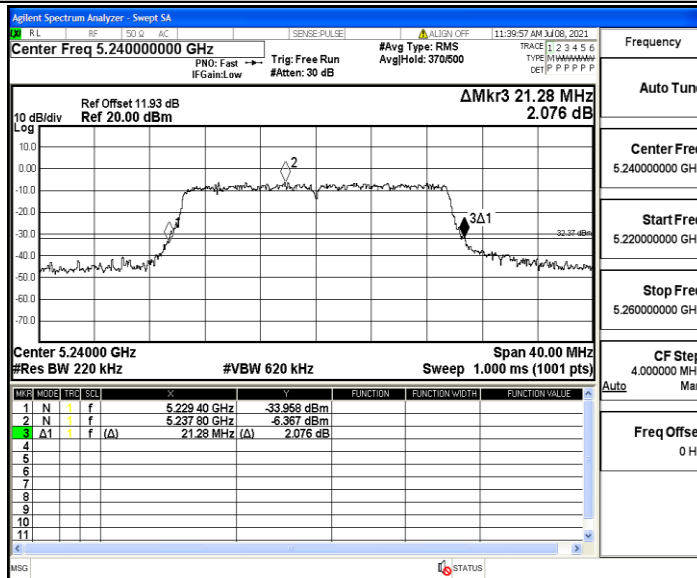
11AX20MIMO\_Ant2\_5200



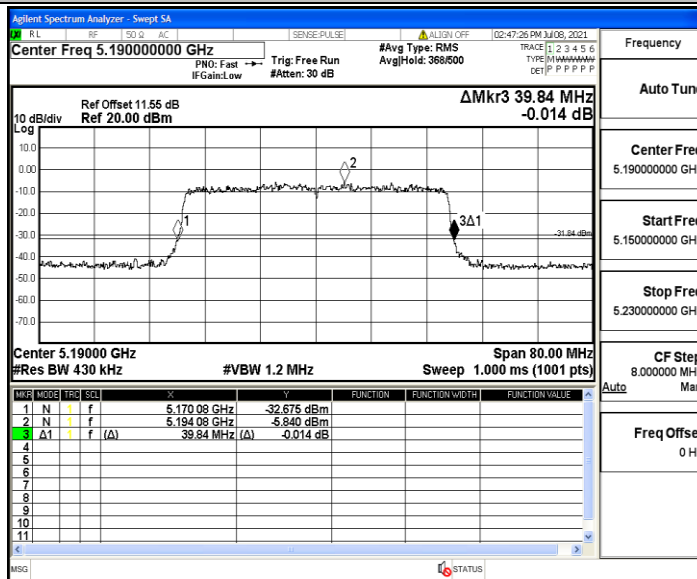
11AX20MIMO\_Ant1\_5240



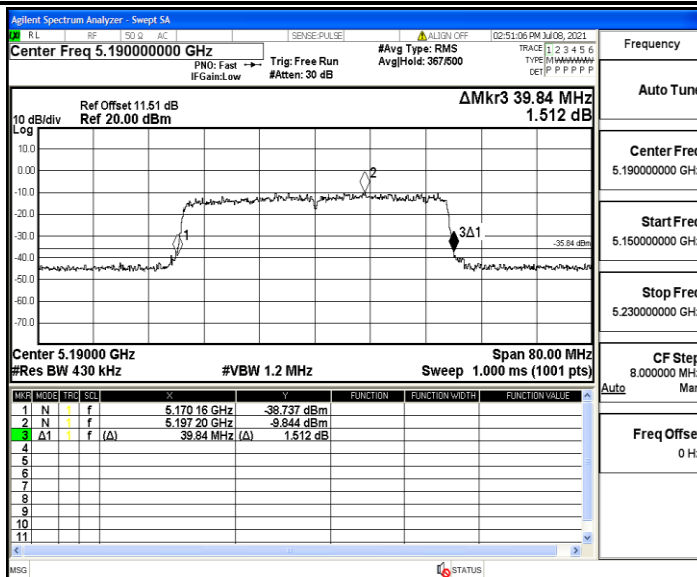
11AX20MIMO\_Ant2\_5240



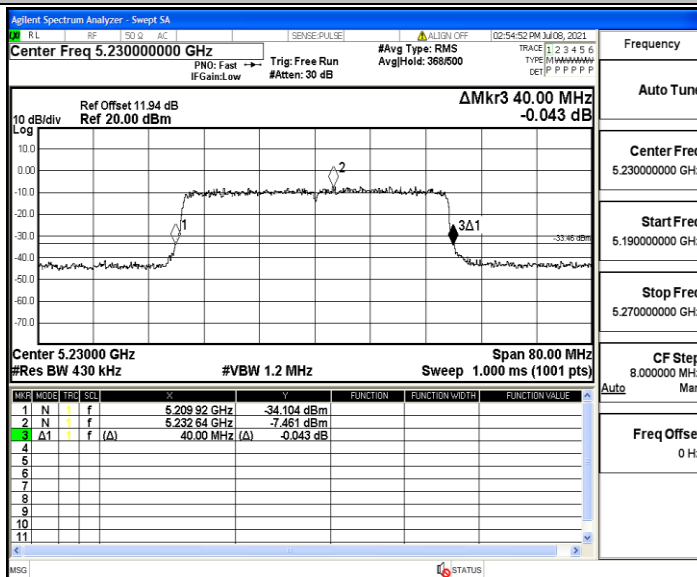
11AX40MIMO\_Ant1\_5190



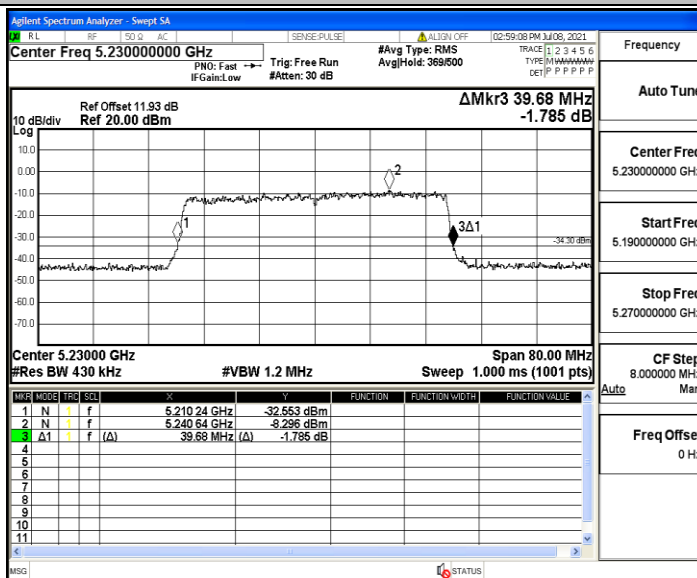
11AX40MIMO\_Ant2\_5190



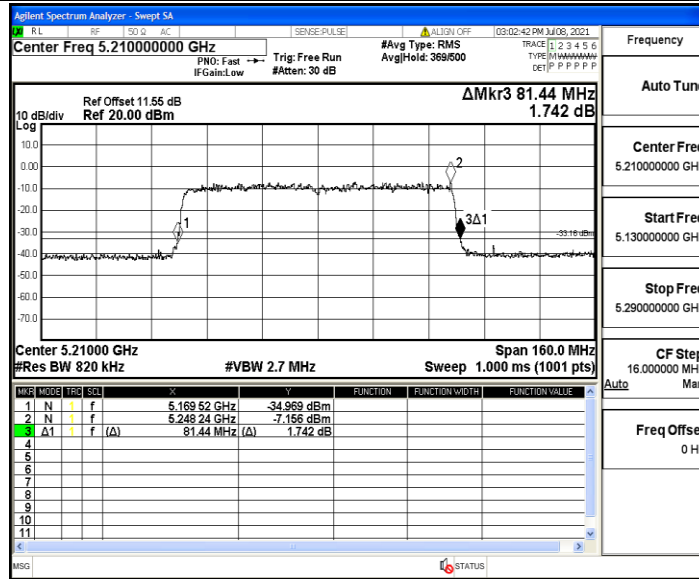
11AX40MIMO\_Ant1\_5230



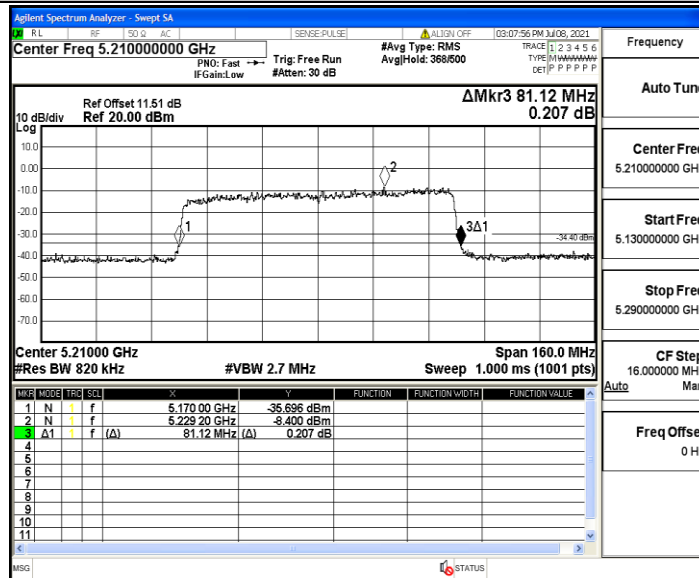
11AX40MIMO\_Ant2\_5230



11AX80MIMO\_Ant1\_5210



11AX80MIMO\_Ant2\_5210





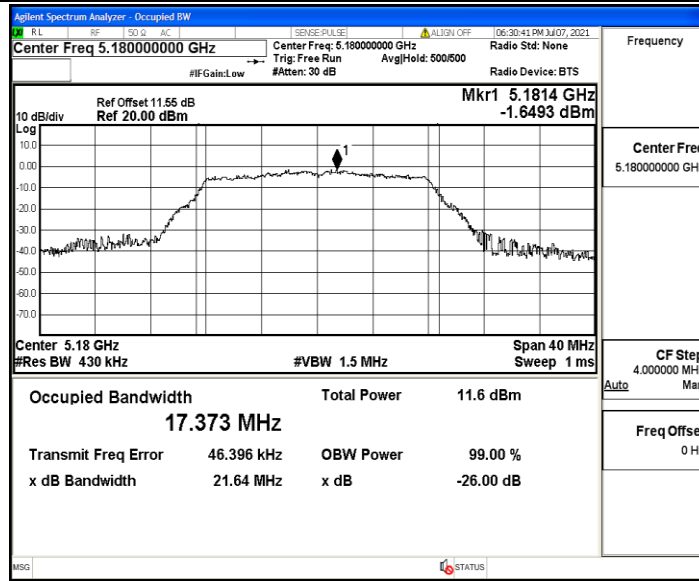
## Appendix A2: Occupied channel bandwidth

### Test Result

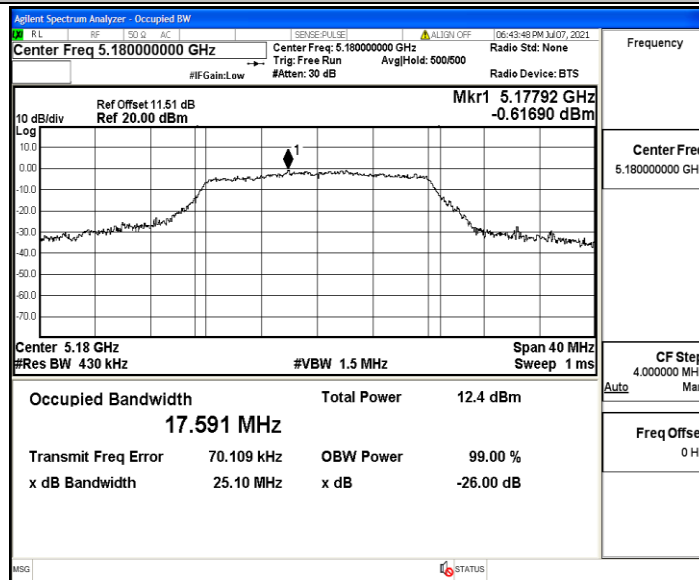
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.373	5171.360	5188.733	---	PASS
	Ant2	5180	17.591	5171.275	5188.866	---	PASS
	Ant1	5200	17.333	5191.254	5208.587	---	PASS
	Ant2	5200	17.801	5190.969	5208.770	---	PASS
	Ant1	5240	17.245	5231.337	5248.582	---	PASS
	Ant2	5240	17.467	5231.257	5248.724	---	PASS
11N20MIMO	Ant1	5180	18.308	5170.936	5189.244	---	PASS
	Ant2	5180	18.237	5170.998	5189.235	---	PASS
	Ant1	5200	18.279	5190.862	5209.141	---	PASS
	Ant2	5200	18.261	5190.944	5209.205	---	PASS
	Ant1	5240	18.247	5230.868	5249.115	---	PASS
	Ant2	5240	18.222	5230.966	5249.188	---	PASS
11N40MIMO	Ant1	5190	36.485	5171.847	5208.332	---	PASS
	Ant2	5190	36.482	5171.952	5208.434	---	PASS
	Ant1	5230	36.559	5211.833	5248.392	---	PASS
	Ant2	5230	36.493	5211.926	5248.419	---	PASS
11AC20MIMO	Ant1	5180	18.364	5170.831	5189.195	---	PASS
	Ant2	5180	18.402	5170.857	5189.259	---	PASS
	Ant1	5200	18.380	5190.721	5209.101	---	PASS
	Ant2	5200	18.423	5190.747	5209.170	---	PASS
	Ant1	5240	18.317	5230.762	5249.079	---	PASS
	Ant2	5240	18.341	5230.840	5249.181	---	PASS
11AC40MIMO	Ant1	5190	36.696	5171.643	5208.339	---	PASS
	Ant2	5190	36.710	5171.773	5208.483	---	PASS
	Ant1	5230	36.783	5211.641	5248.424	---	PASS
	Ant2	5230	36.815	5211.721	5248.536	---	PASS
11AC80MIMO	Ant1	5210	76.184	5172.187	5248.371	---	PASS
	Ant2	5210	76.025	5172.556	5248.581	---	PASS
11AX20MIMO	Ant1	5180	19.183	5170.473	5189.656	---	PASS
	Ant2	5180	19.197	5170.478	5189.675	---	PASS
	Ant1	5200	19.169	5190.408	5209.577	---	PASS
	Ant2	5200	19.154	5190.423	5209.577	---	PASS
	Ant1	5240	19.166	5230.424	5249.590	---	PASS
	Ant2	5240	19.134	5230.473	5249.607	---	PASS
11AX40MIMO	Ant1	5190	37.633	5171.273	5208.906	---	PASS
	Ant2	5190	37.616	5171.362	5208.978	---	PASS
	Ant1	5230	37.633	5211.264	5248.897	---	PASS
	Ant2	5230	37.656	5211.323	5248.979	---	PASS
11AX80MIMO	Ant1	5210	77.101	5171.678	5248.779	---	PASS
	Ant2	5210	77.055	5172.022	5249.077	---	PASS

Test Graphs

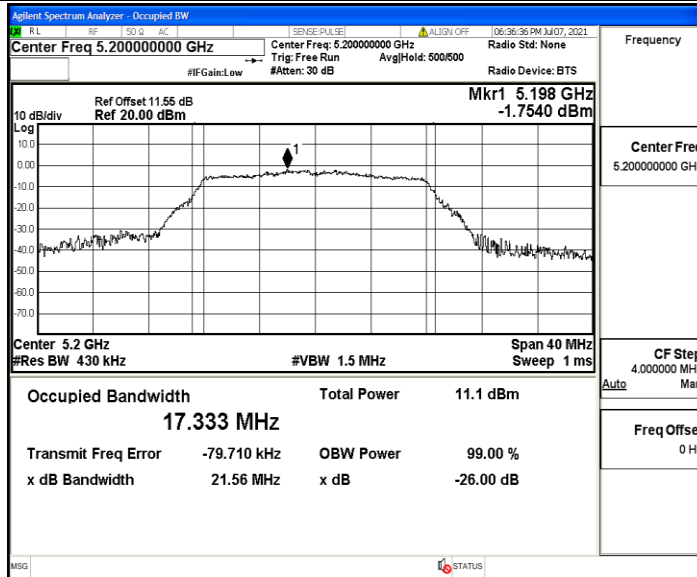
11A\_Ant1\_5180



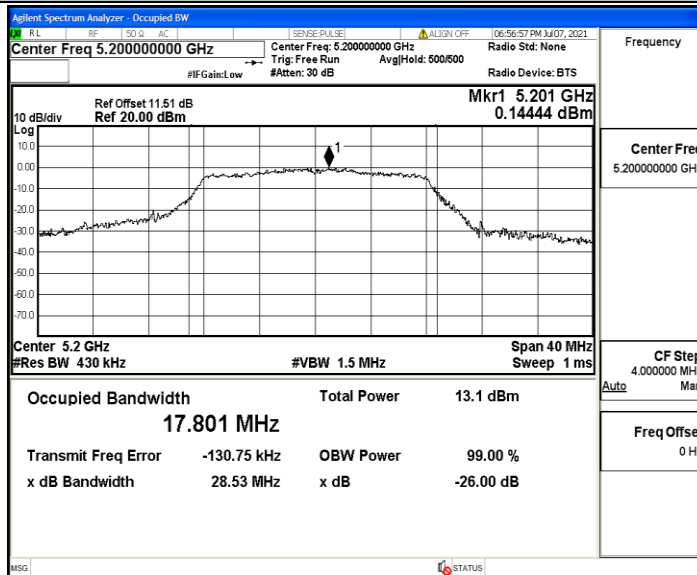
11A\_Ant2\_5180



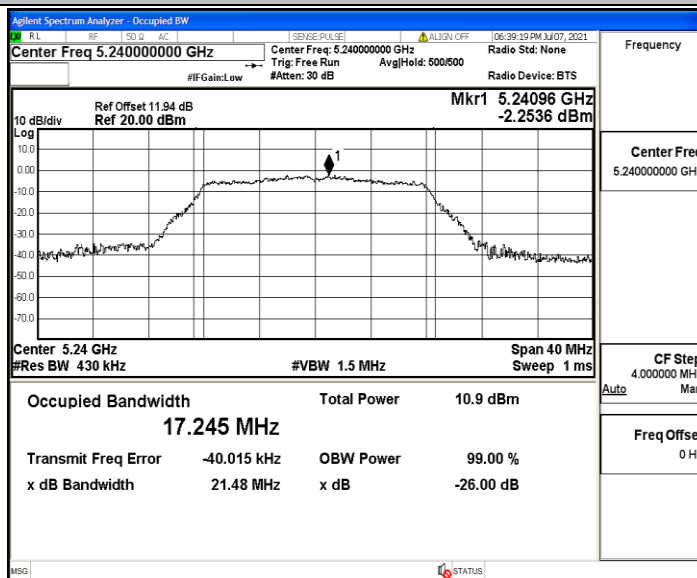
11A\_Ant1\_5200



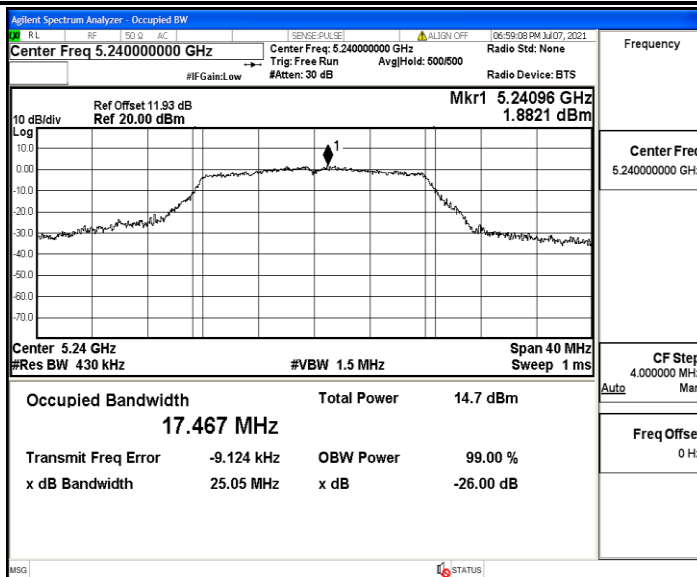
11A\_Ant2\_5200



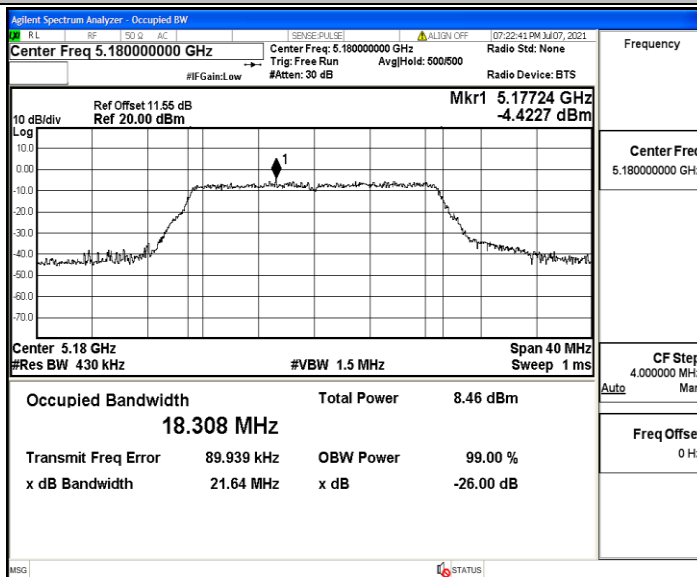
11A\_Ant1\_5240



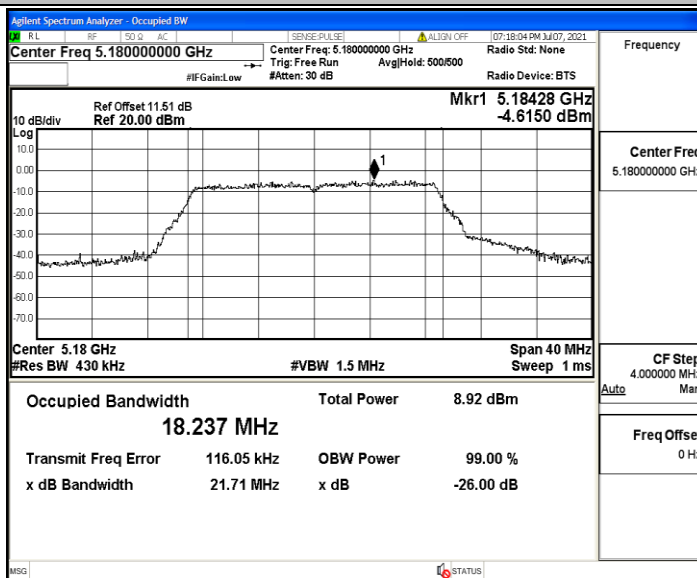
11A\_Ant2\_5240



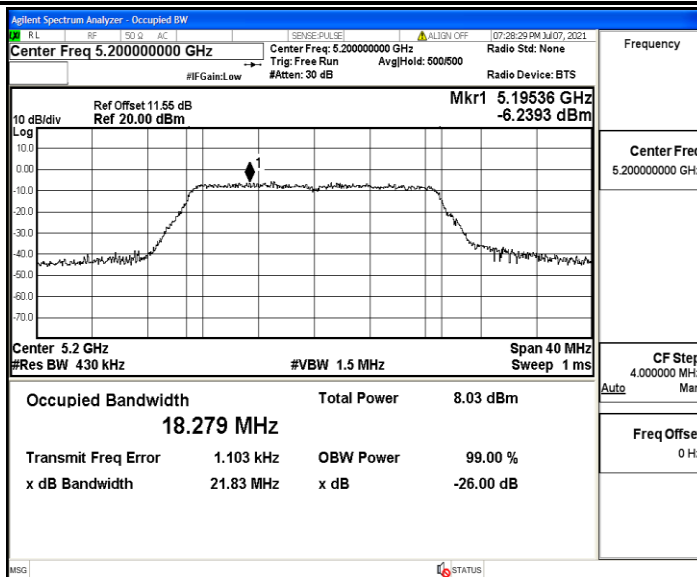
11N20MIMO\_Ant1\_5180



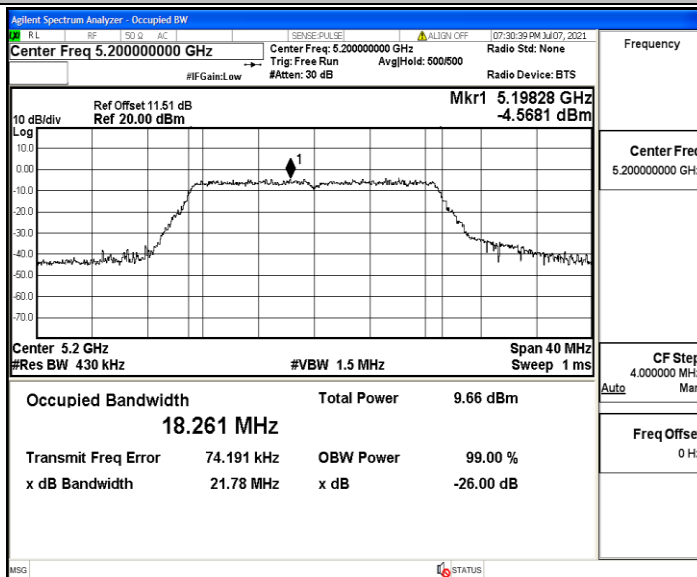
11N20MIMO\_Ant2\_5180



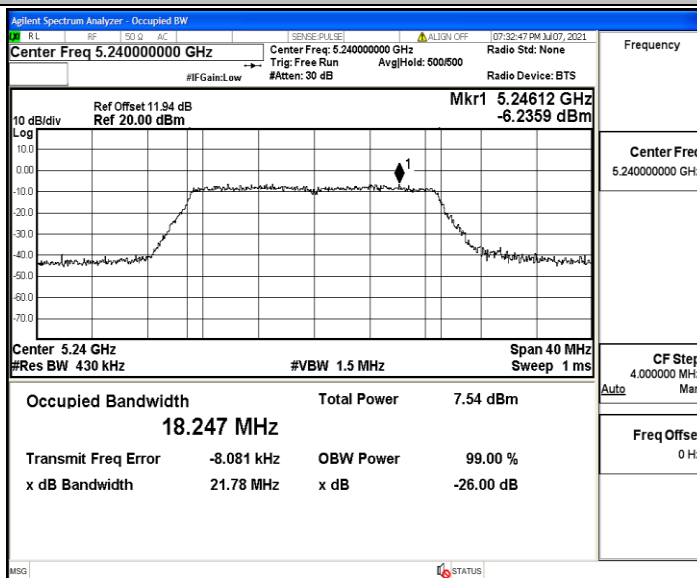
11N20MIMO\_Ant1\_5200



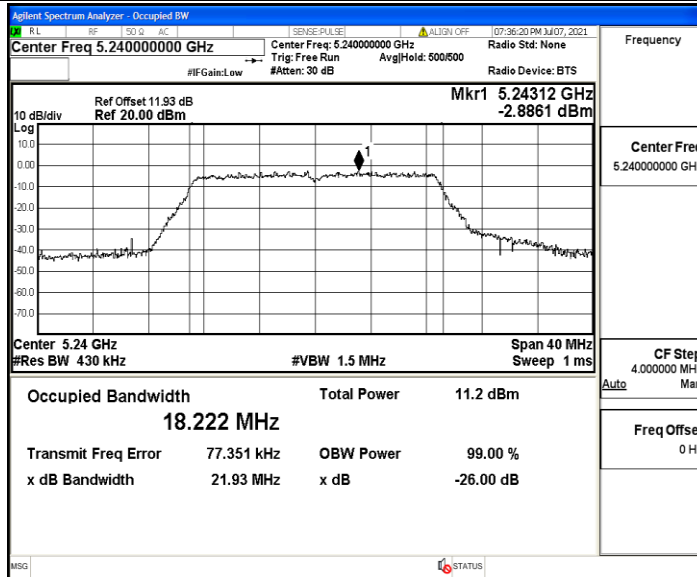
11N20MIMO\_Ant2\_5200



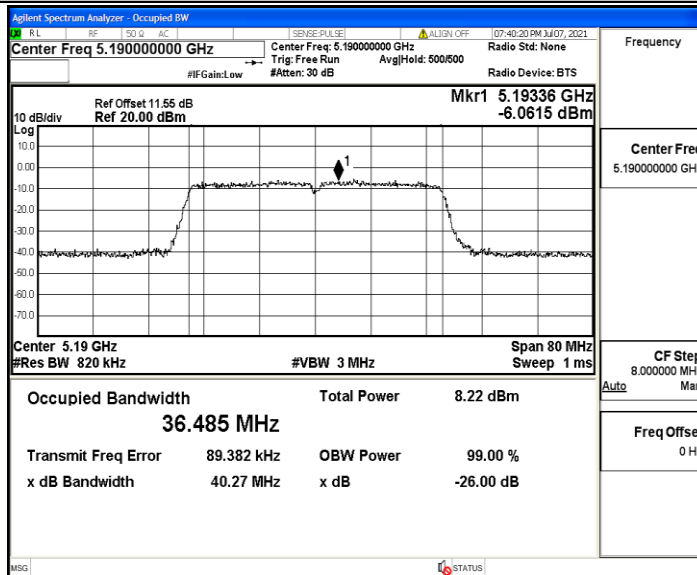
11N20MIMO\_Ant1\_5240



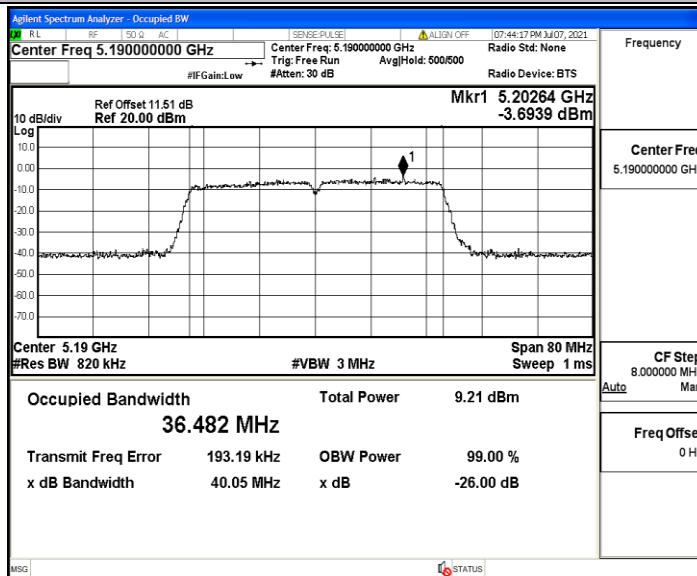
11N20MIMO\_Ant2\_5240



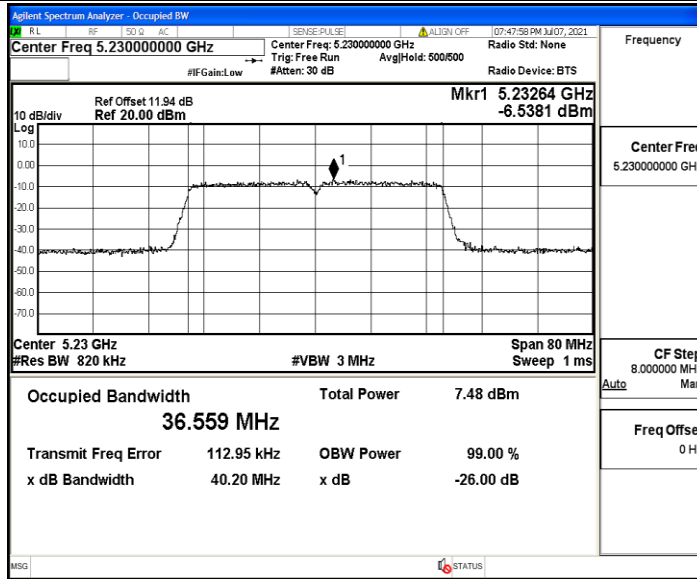
11N40MIMO\_Ant1\_5190



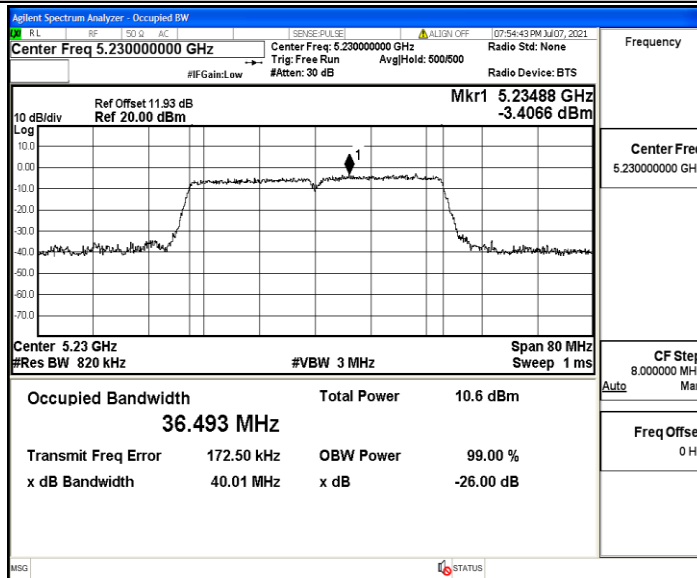
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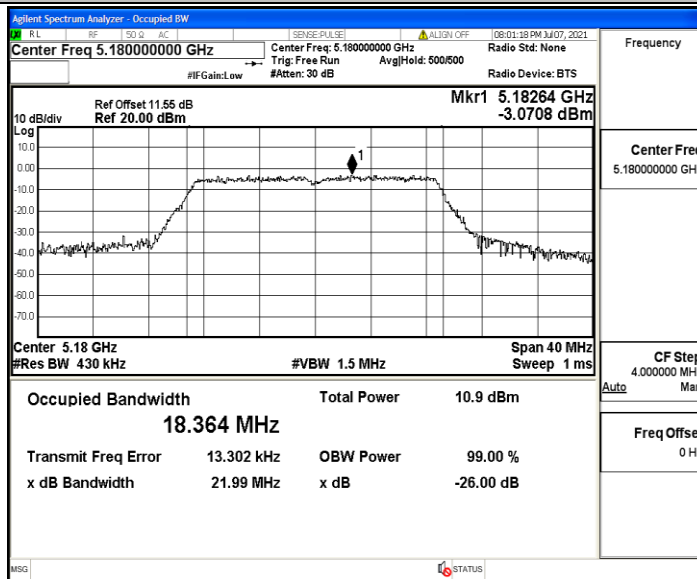
11N40MIMO\_Ant1\_5230



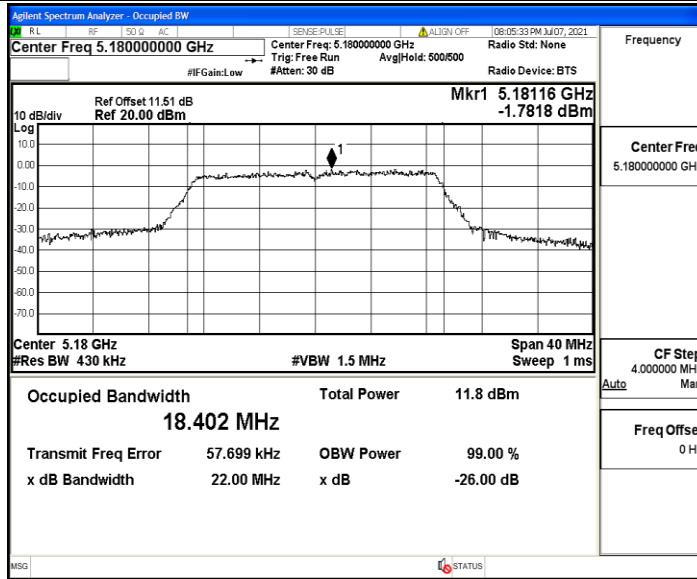
11N40MIMO\_Ant2\_5230



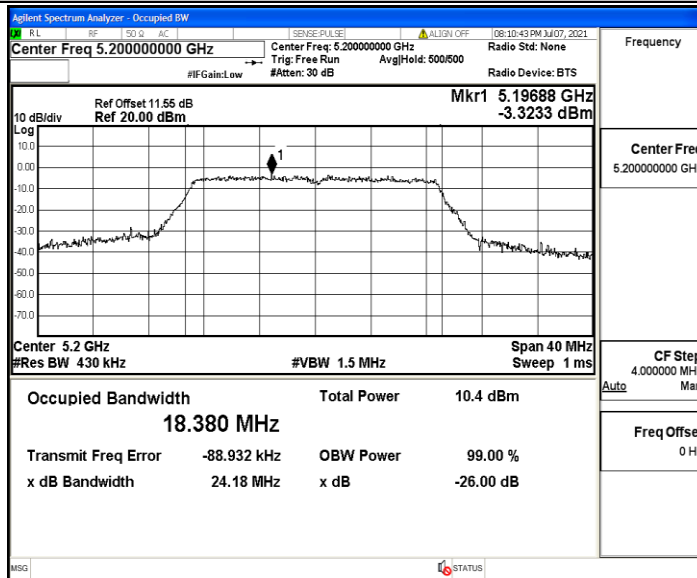
11AC20MIMO\_Ant1\_5180



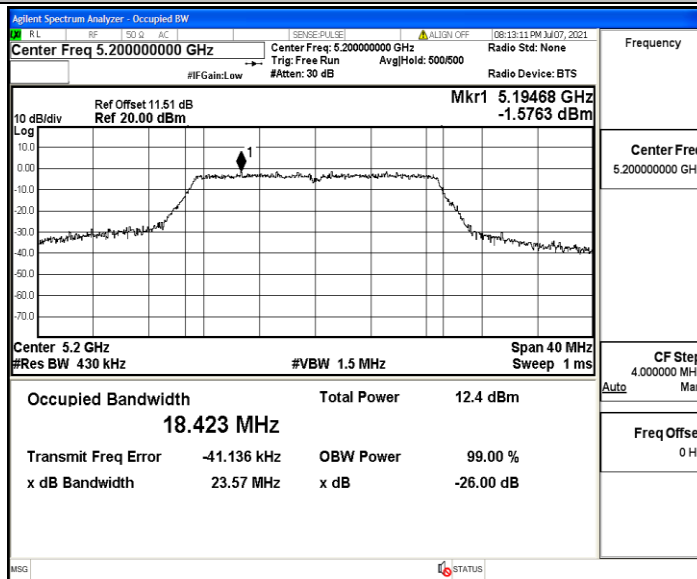
11AC20MIMO\_Ant2\_5180



11AC20MIMO\_Ant1\_5200

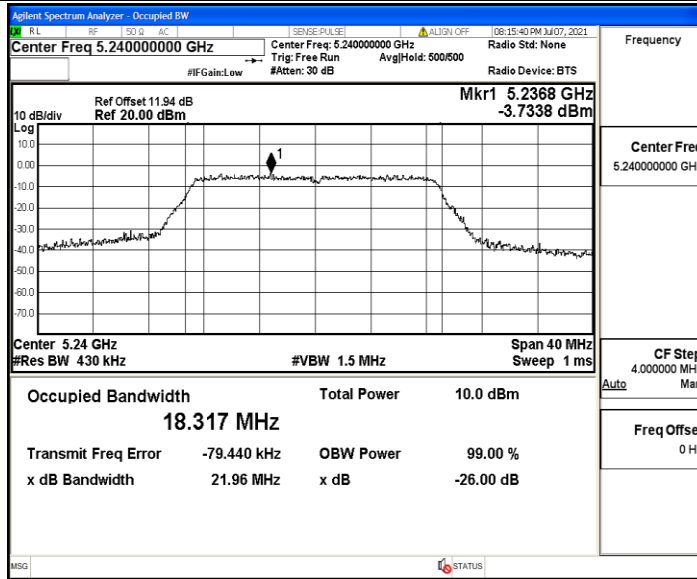


11AC20MIMO\_Ant2\_5200

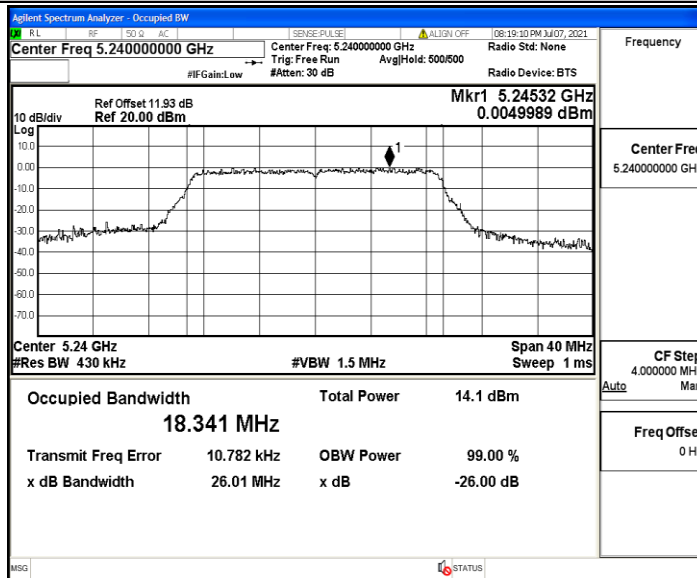


11AC20MIMO\_Ant1\_5240

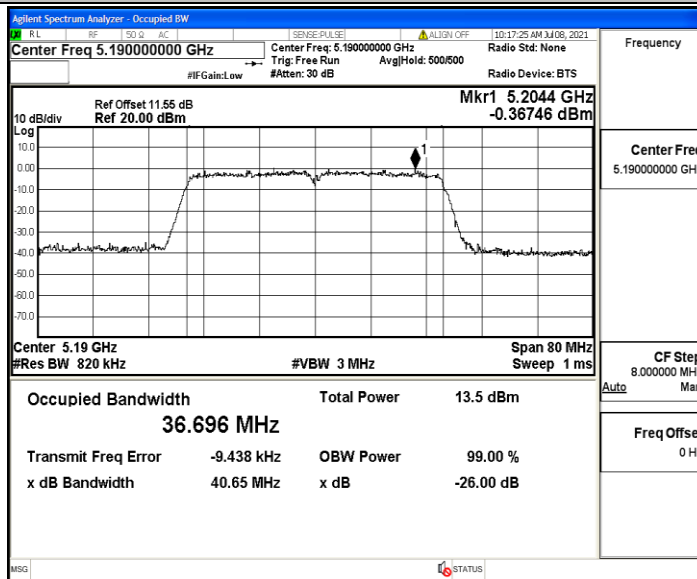




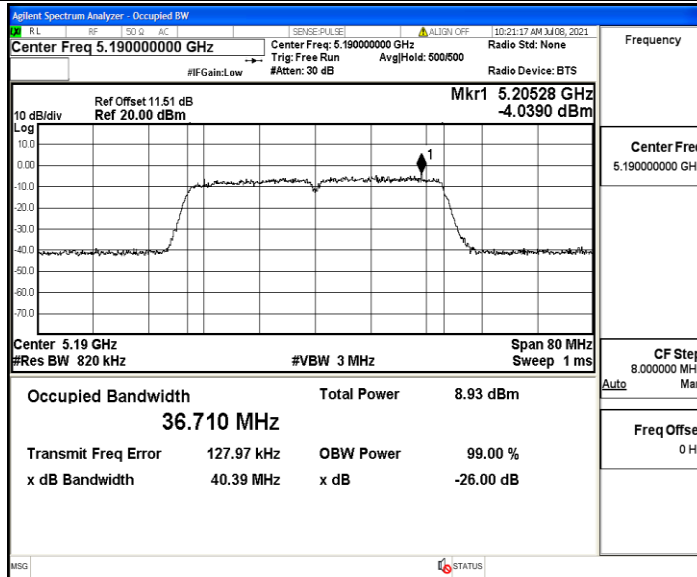
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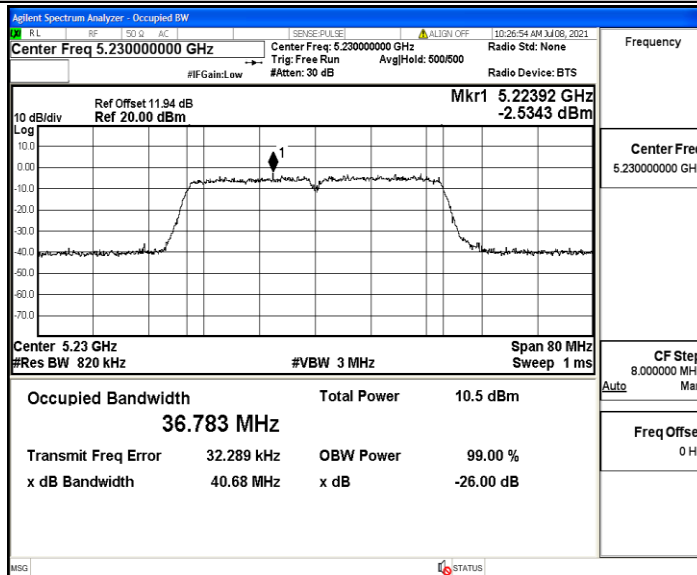
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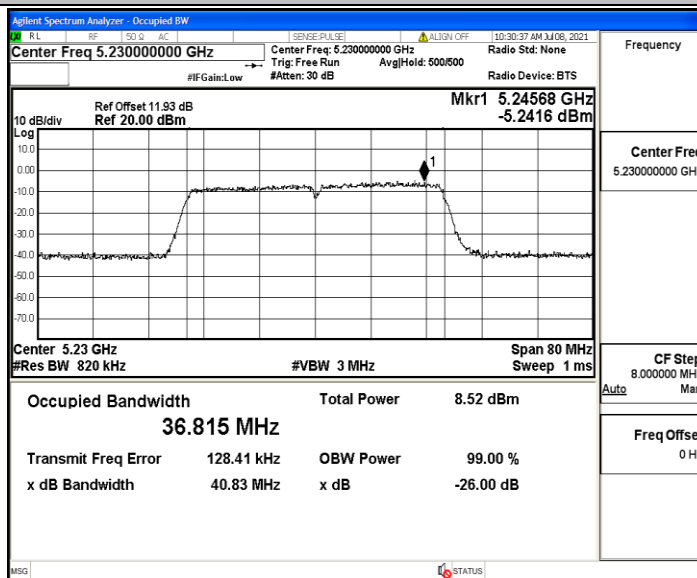
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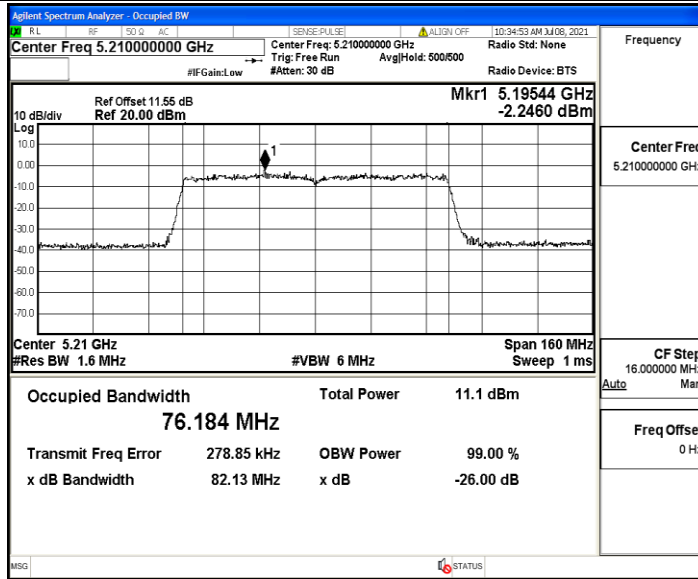
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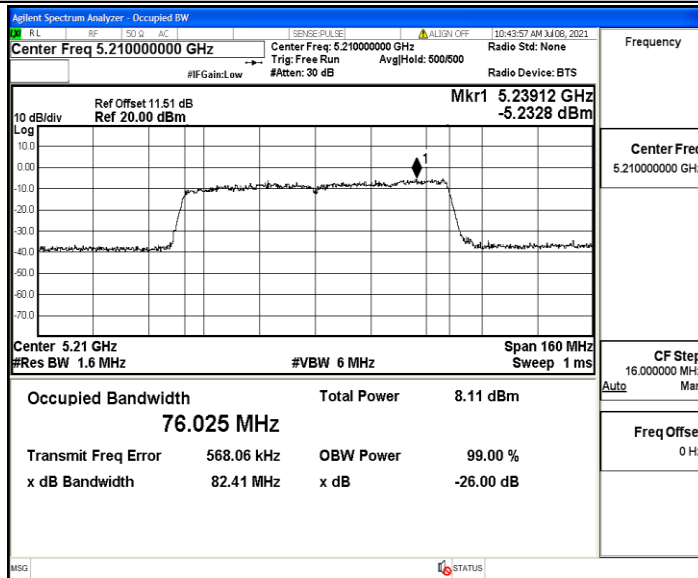
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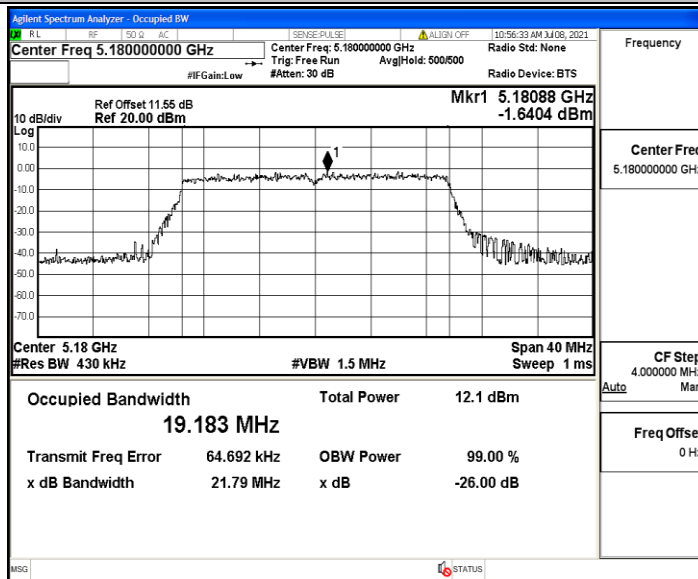
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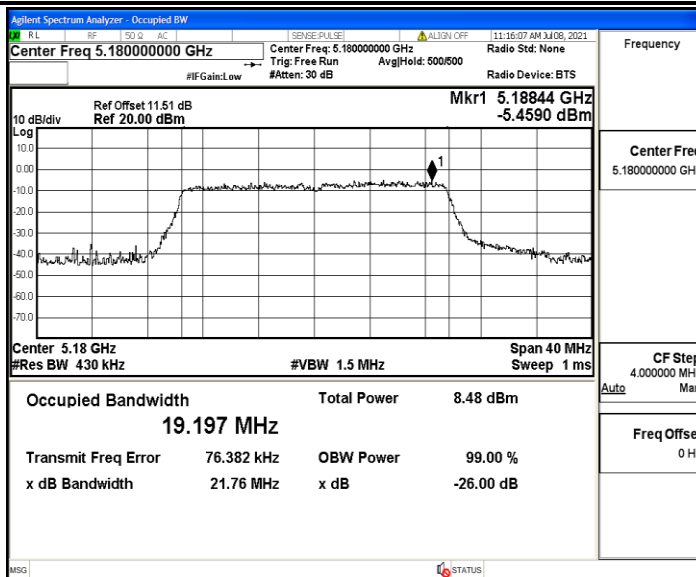
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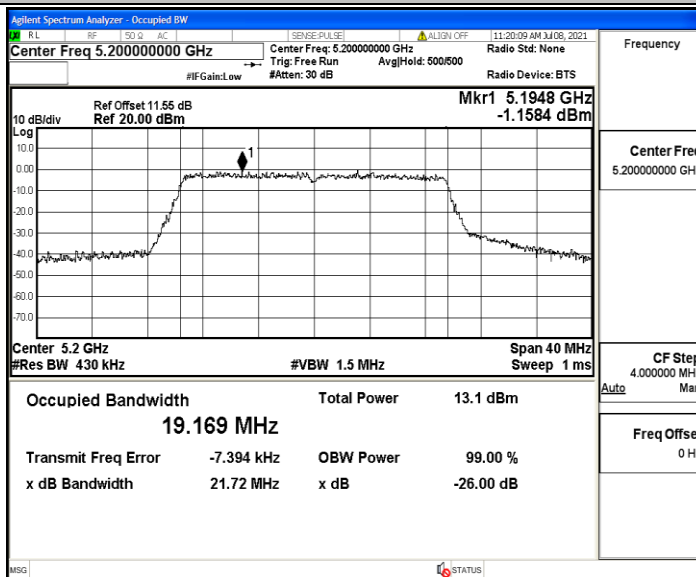
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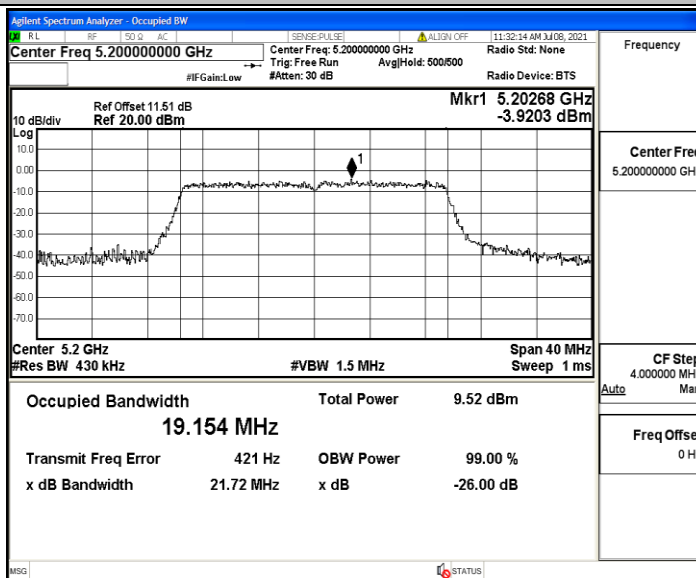
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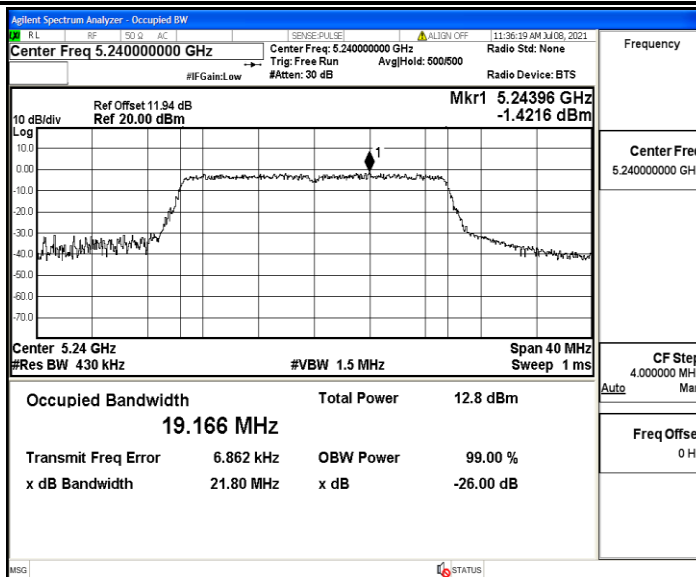
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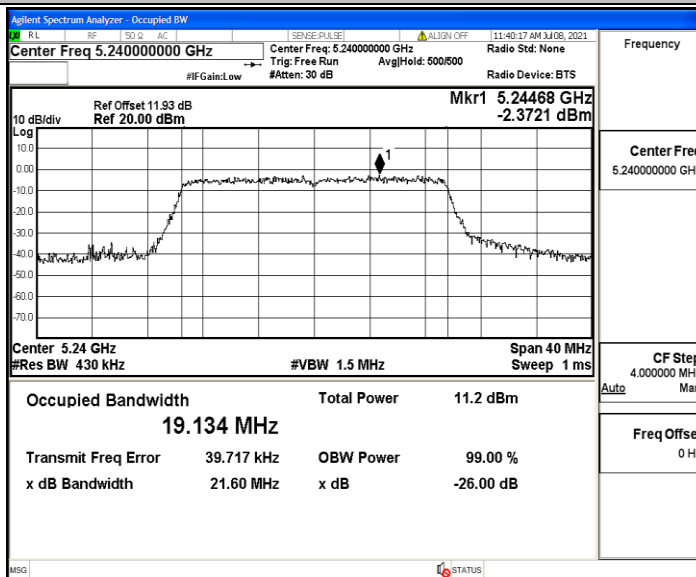
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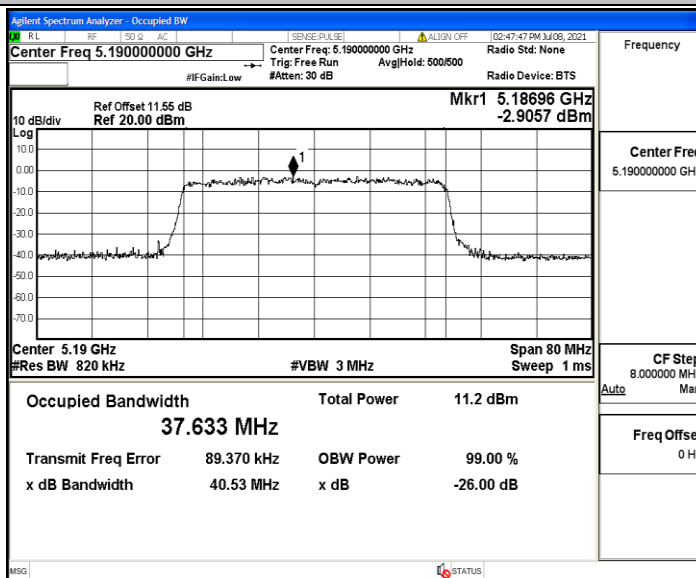
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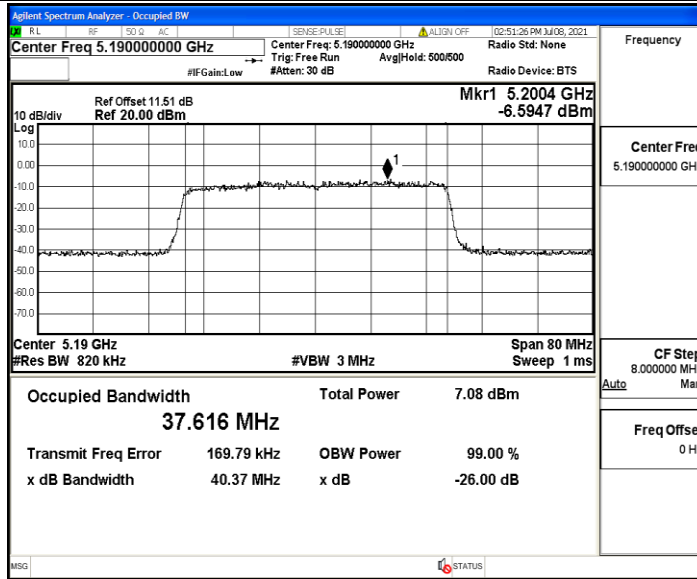
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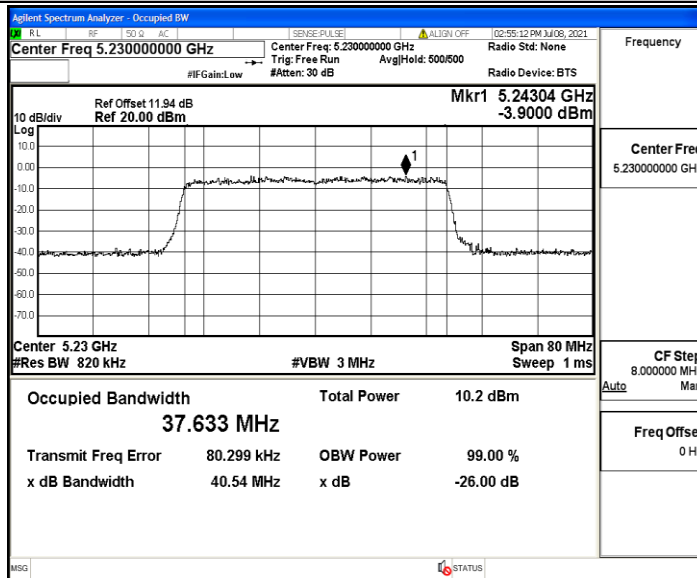
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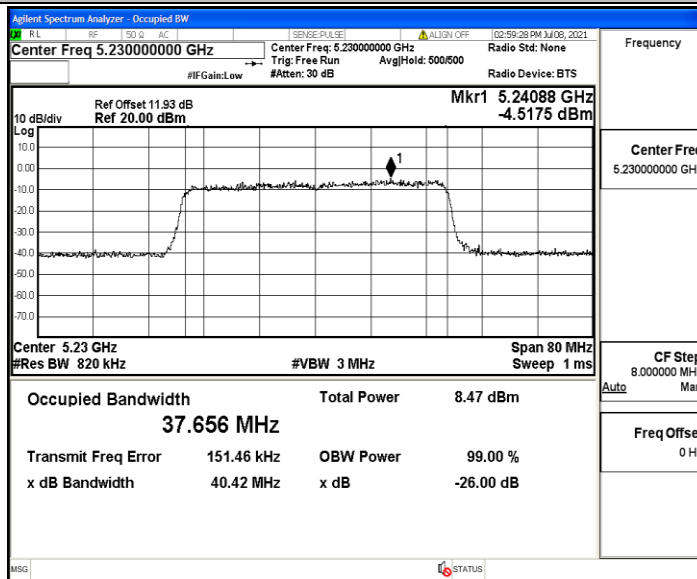
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11AX40MIMO\_Ant1\_5230



11AX40MIMO\_Ant2\_5230



11AX80MIMO\_Ant1\_5210