



## Appendix D

### RF Test Data for 5G WIFI (Conducted Measurement)

**Product Name: Vivi Wireless Presentation**

**Trade Mark: Vivi**

**Test Model: VWP-210-16**

#### Environmental Conditions

Temperature:	22.5 ° C
Relative Humidity:	53%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li Huan



## Appendix D.1: Duty Cycle

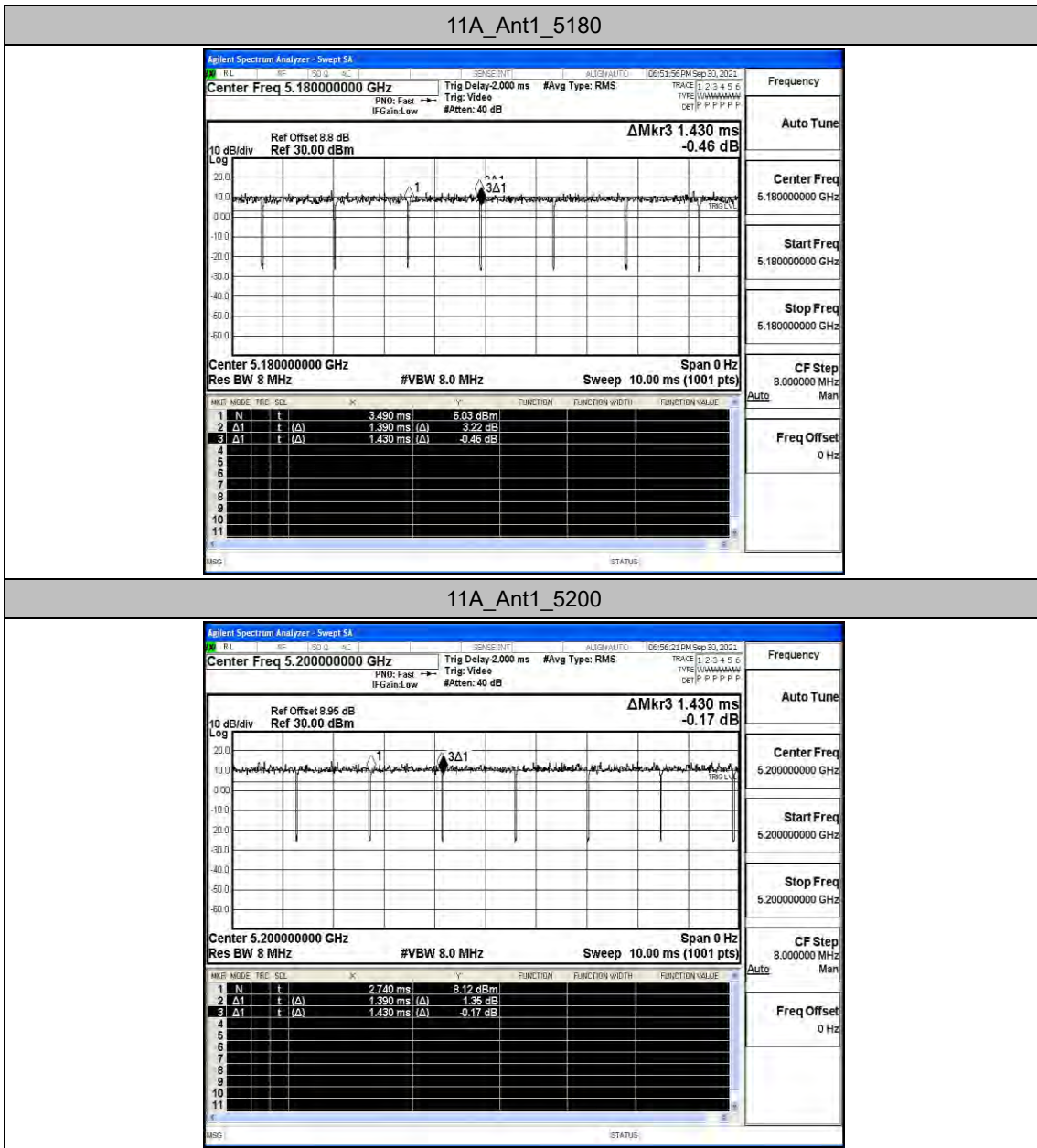
### Test Result

#### ANT 1

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T VBW(KHz)	Verdict
11A	Ant1	5180	1.39	1.43	97.20	0.72	PASS
		5200	1.39	1.43	97.20	0.72	PASS
		5240	1.39	1.43	97.20	0.72	PASS
11N20SISO	Ant1	5180	1.30	1.34	97.01	0.77	PASS
		5200	1.30	1.34	97.01	0.77	PASS
		5240	1.30	1.34	97.01	0.77	PASS
11N40SISO	Ant1	5190	0.64	0.68	94.12	1.56	PASS
		5230	0.64	0.68	94.12	1.56	PASS
11AC20SISO	Ant1	5180	1.31	1.35	97.04	0.76	PASS
		5200	1.31	1.35	97.04	0.76	PASS
		5240	1.31	1.35	97.04	0.76	PASS
11AC40SISO	Ant1	5190	0.65	0.69	94.20	1.54	PASS
		5230	0.65	0.69	94.20	1.54	PASS
11AC80SISO	Ant1	5210	0.32	0.36	88.89	3.13	PASS

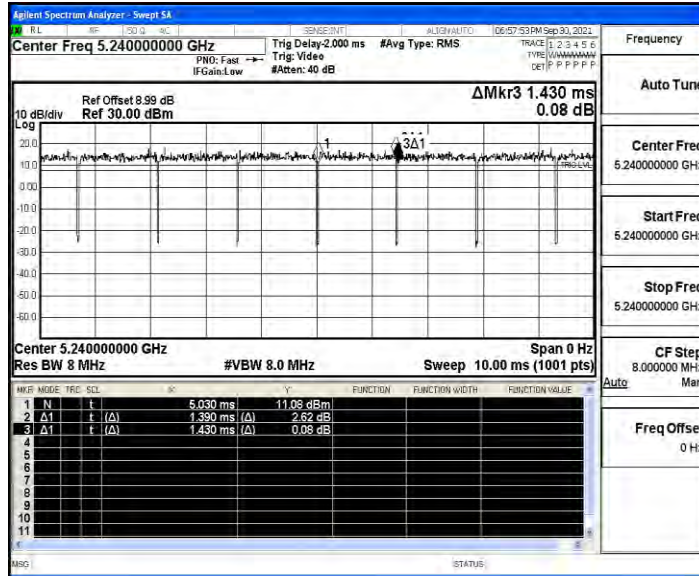


### Test Graphs

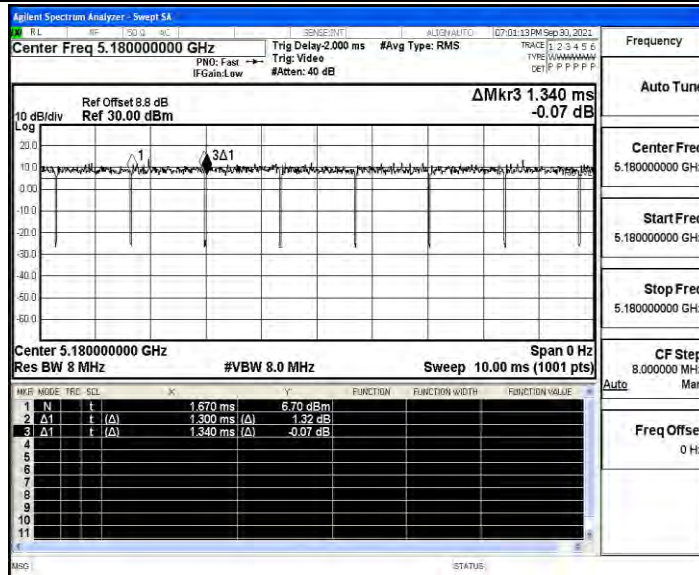




11A\_Ant1\_5240

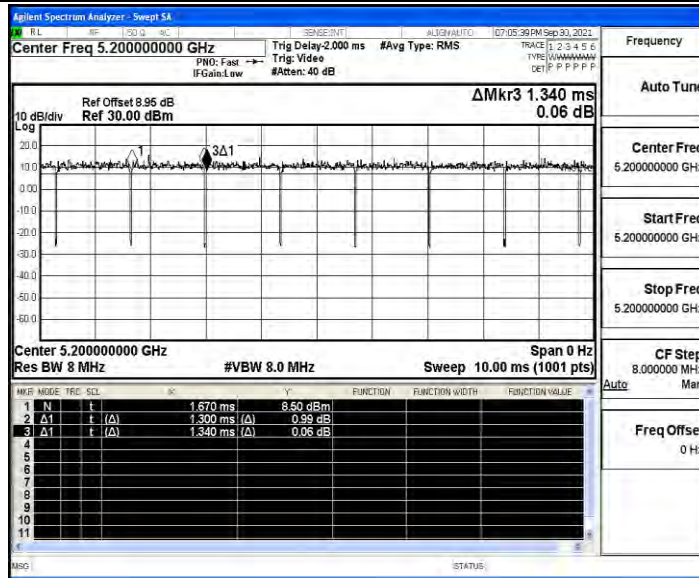


11N20SISO\_Ant1\_5180

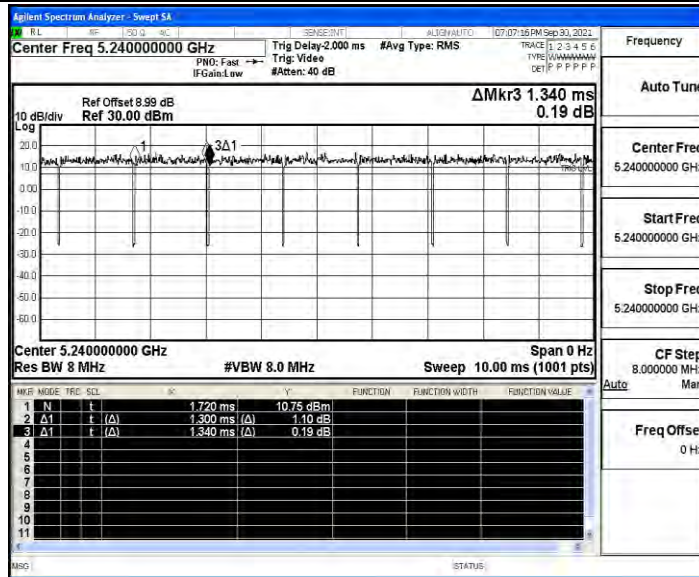




11N20SISO\_Ant1\_5200

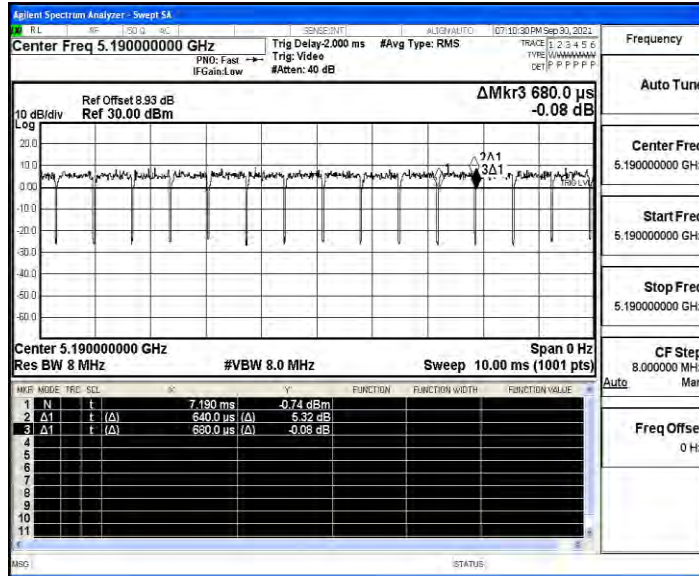


11N20SISO\_Ant1\_5240

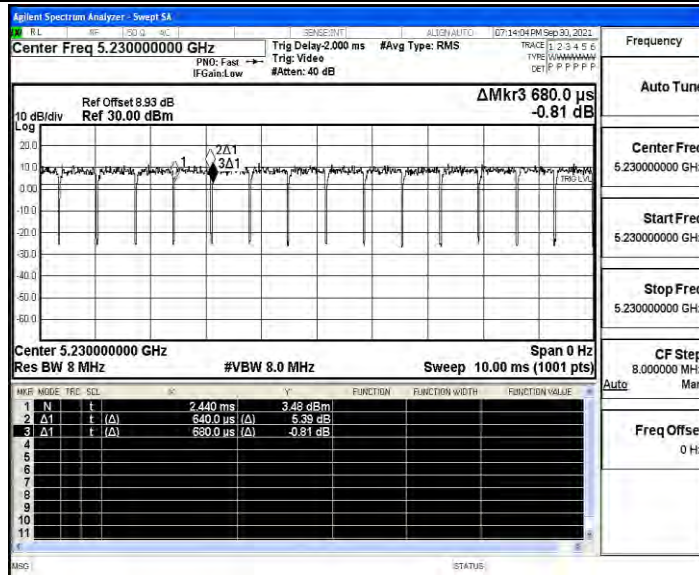




11N40SISO\_Ant1\_5190

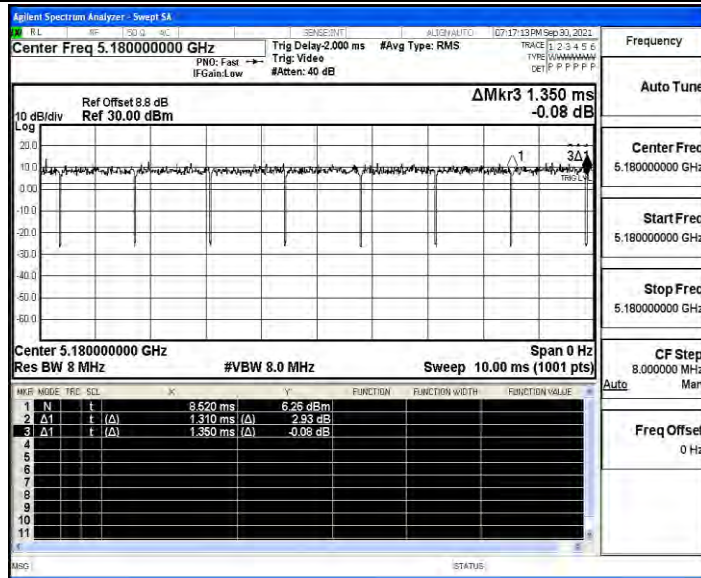


11N40SISO\_Ant1\_5230

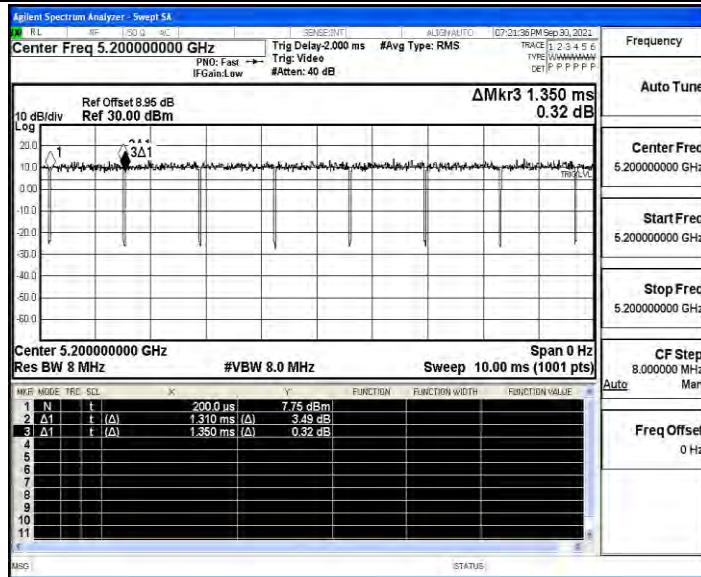




11AC20SISO\_Ant1\_5180

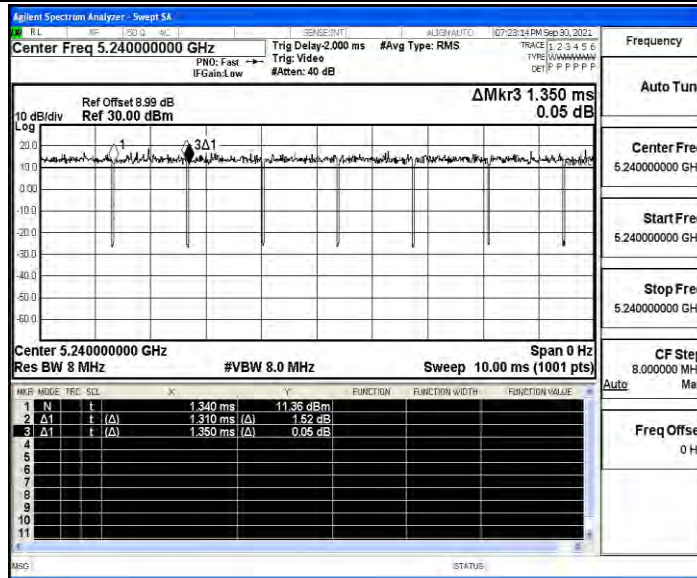


11AC20SISO\_Ant1\_5200

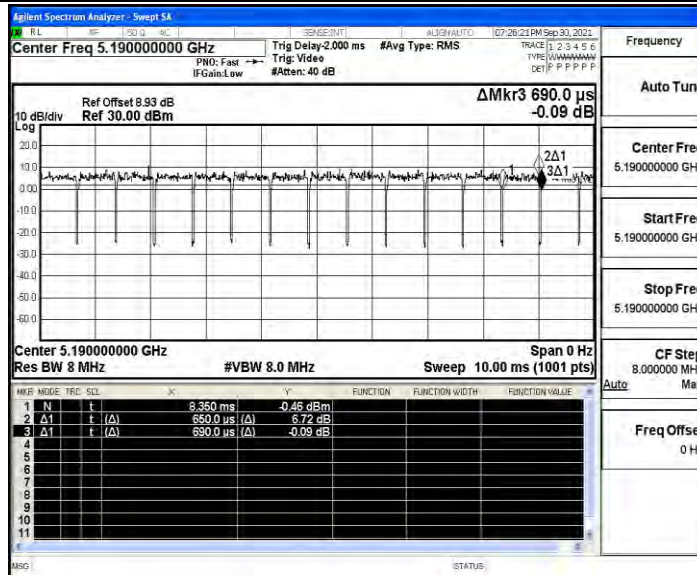




11AC20SISO\_Ant1\_5240



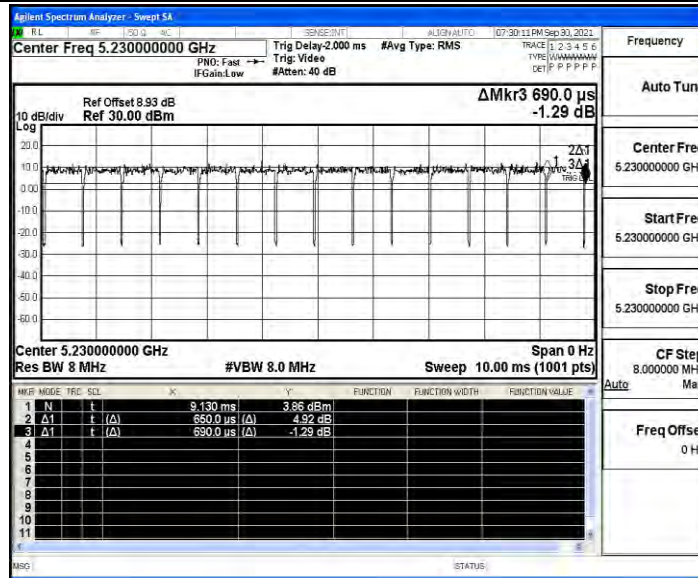
11AC40SISO\_Ant1\_5190



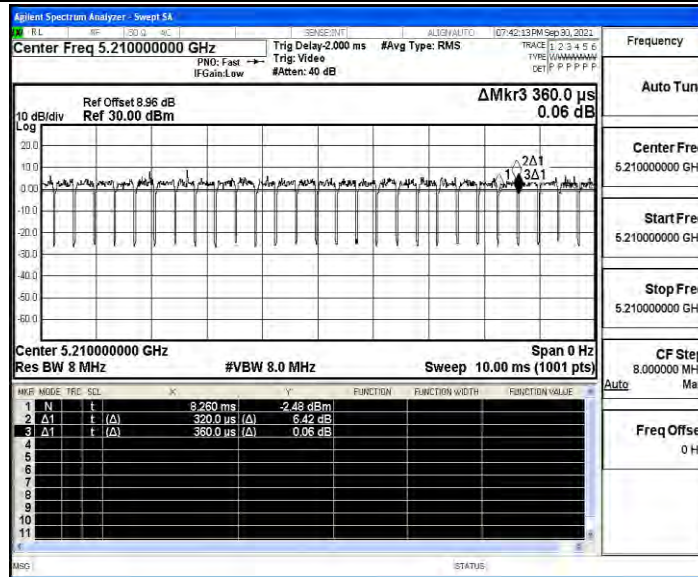




### 11AC40SISO\_Ant1\_5230



### 11AC80SISO\_Ant1\_5210



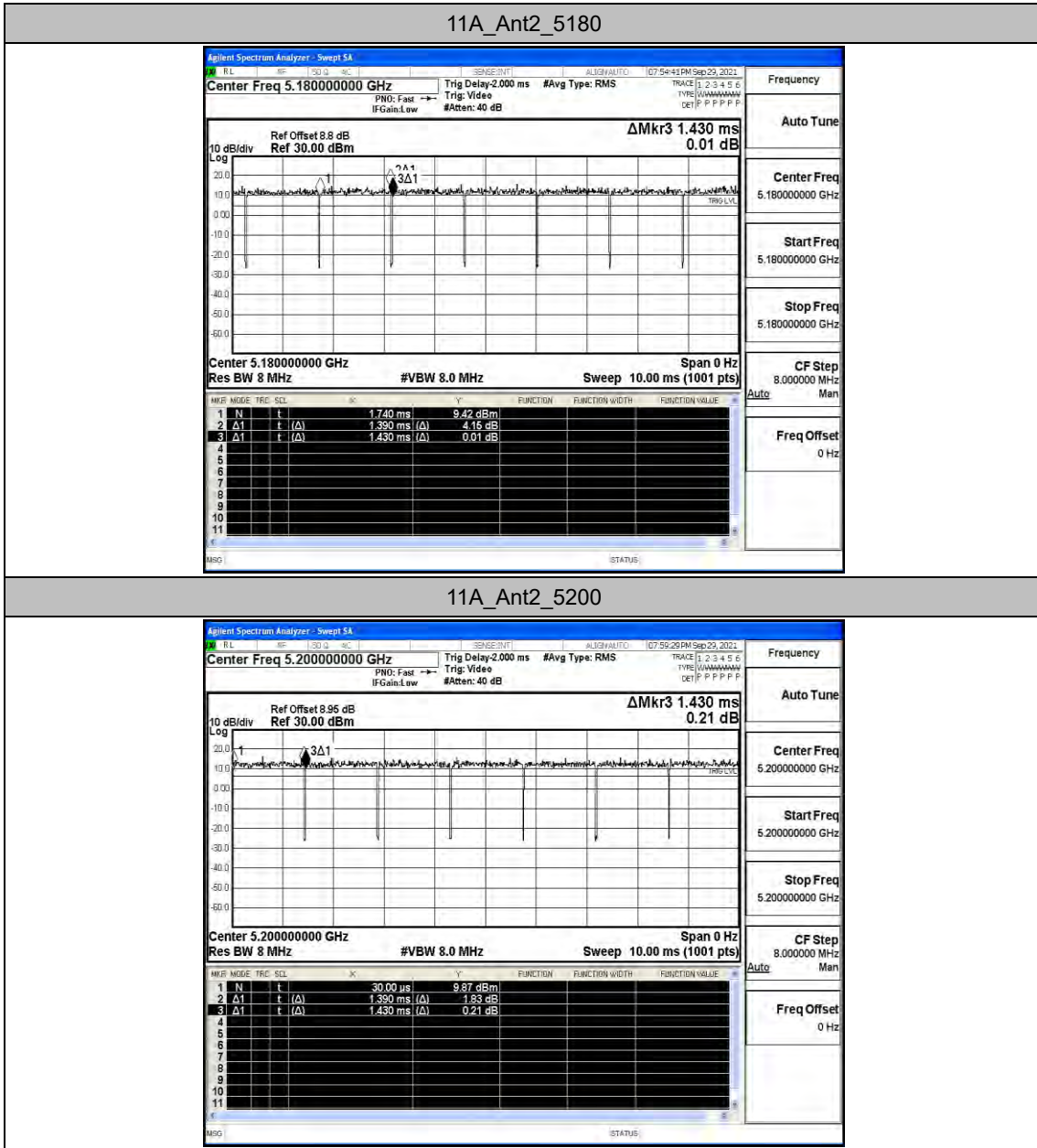


**ANT 2**

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T VBW(KHz)	Verdict
11A	Ant2	5180	1.39	1.43	97.20	0.72	PASS
		5200	1.39	1.43	97.20	0.72	PASS
		5240	1.39	1.43	97.20	0.72	PASS
11N20SISO	Ant2	5180	1.30	1.34	97.01	0.77	PASS
		5200	1.30	1.34	97.01	0.77	PASS
		5240	1.30	1.34	97.01	0.77	PASS
11N40SISO	Ant2	5190	0.64	0.68	94.12	1.56	PASS
		5230	0.64	0.68	94.12	1.56	PASS
11AC20SISO	Ant2	5180	1.32	1.36	97.06	0.76	PASS
		5200	1.31	1.35	97.04	0.76	PASS
		5240	1.31	1.35	97.04	0.76	PASS
11AC40SISO	Ant2	5190	0.65	0.69	94.20	1.54	PASS
		5230	0.65	0.69	94.20	1.54	PASS
11AC80SISO	Ant2	5210	0.32	0.36	88.89	3.13	PASS

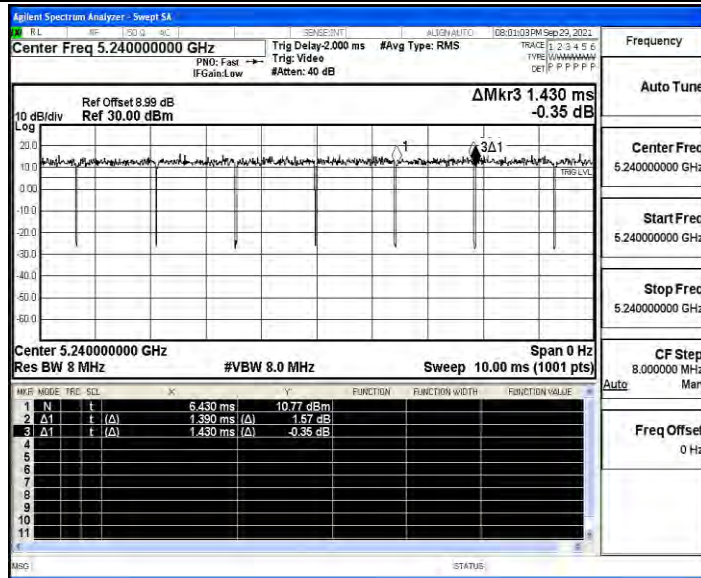


### Test Graphs

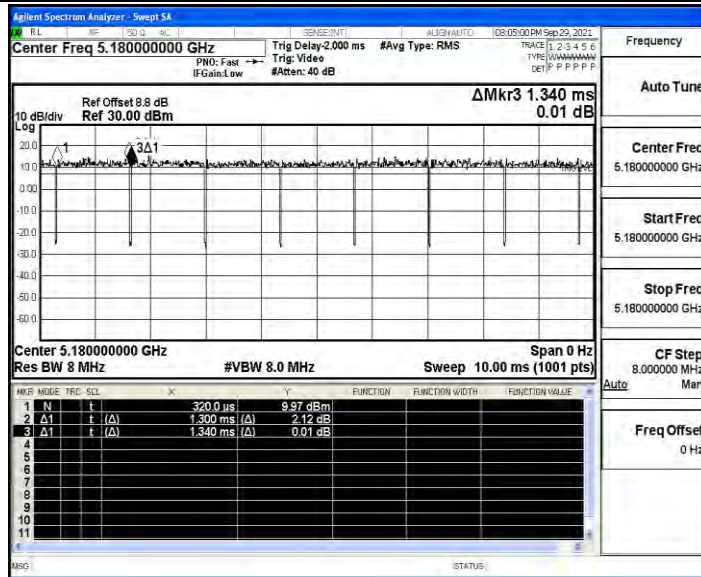




11A\_Ant2\_5240

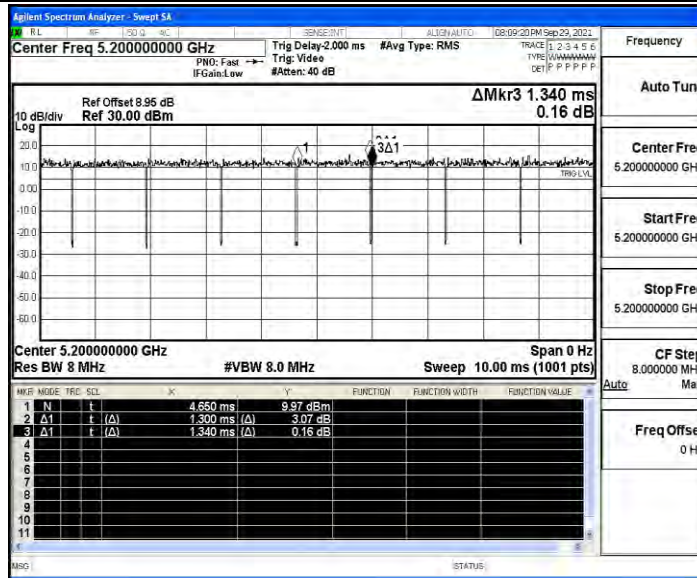


11N20SISO\_Ant2\_5180

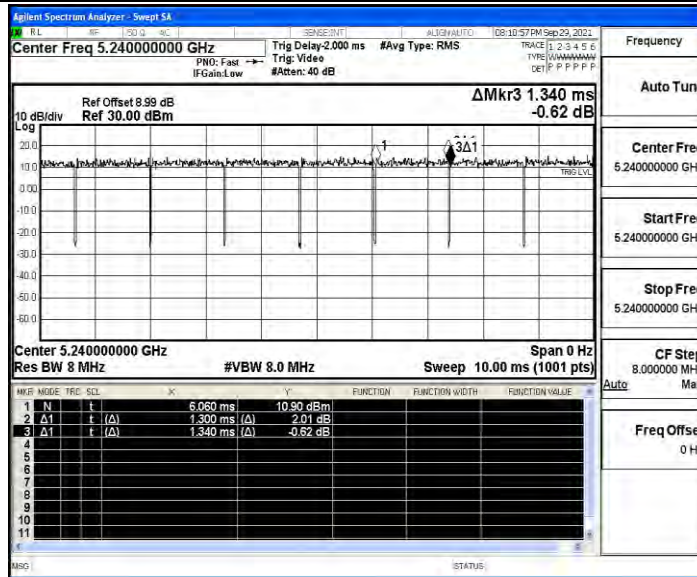




11N20SISO\_Ant2\_5200

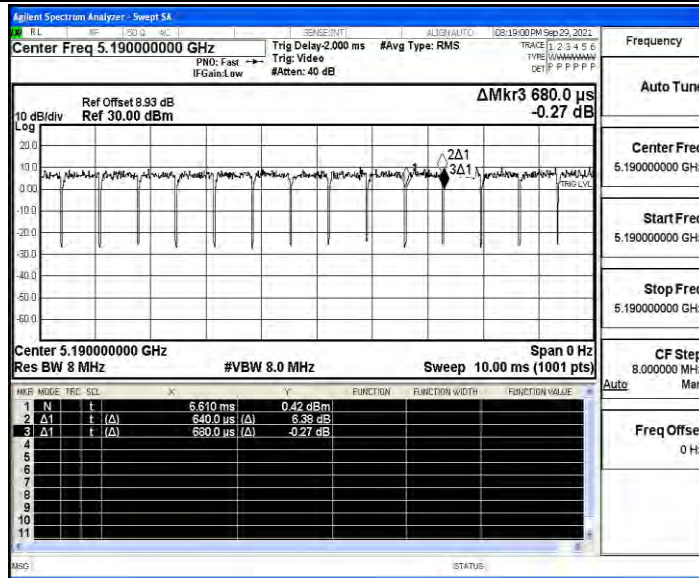


11N20SISO\_Ant2\_5240

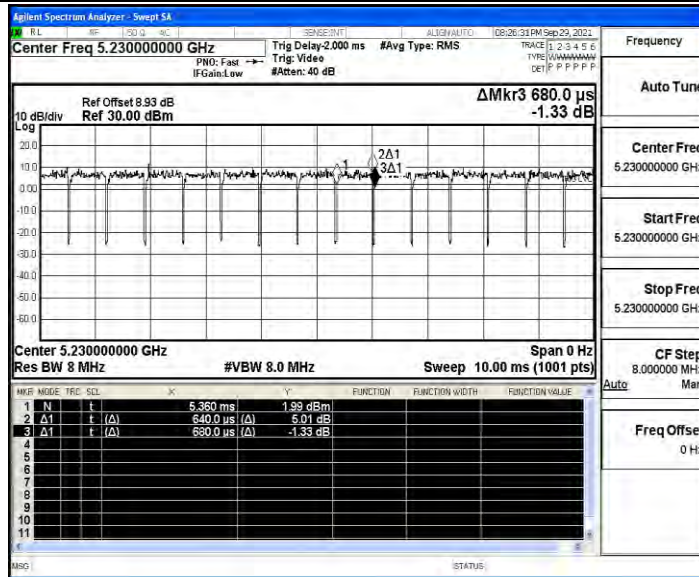




11N40SISO\_Ant2\_5190

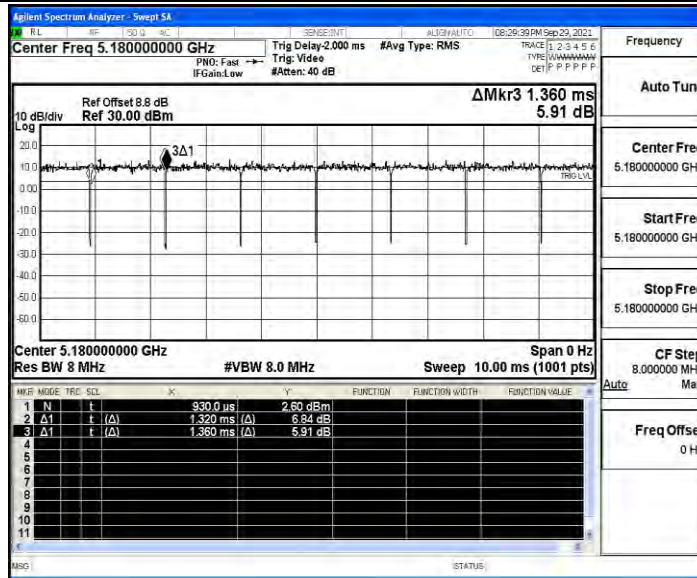


11N40SISO\_Ant2\_5230

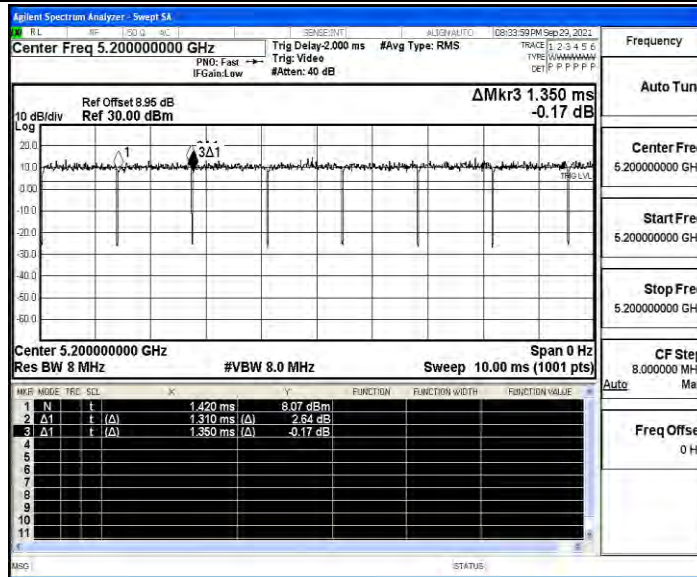




11AC20SISO\_Ant2\_5180

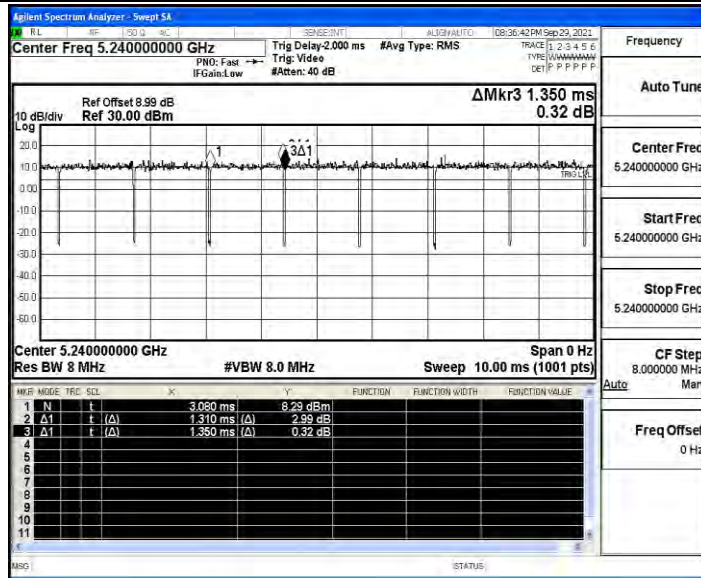


11AC20SISO\_Ant2\_5200

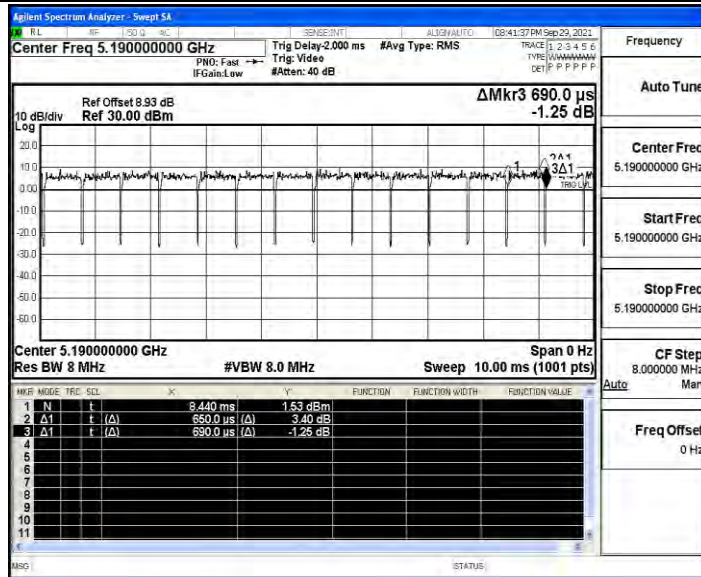




11AC20SISO\_Ant2\_5240



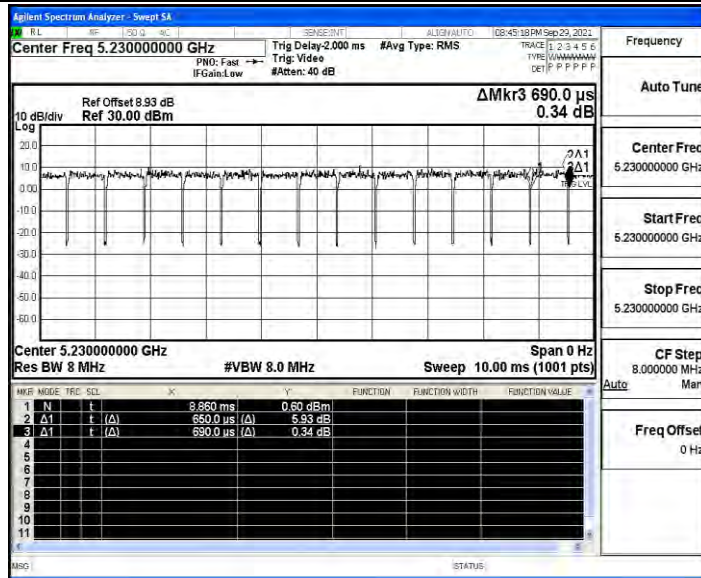
11AC40SISO\_Ant2\_5190



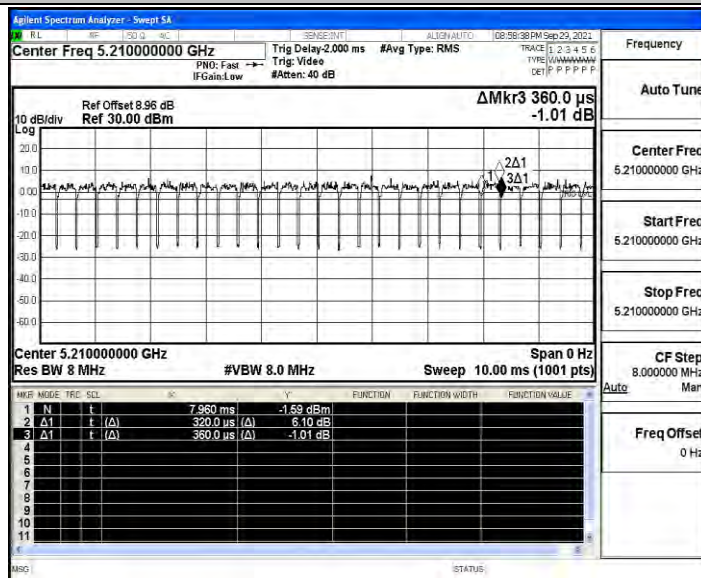




11AC40SISO\_Ant2\_5230



11AC80SISO\_Ant2\_5210





## Appendix D.2: Maximum conducted output power

### Test Result

#### ANT 1

TestMode	Antenna	Channel	Result[dBm]	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit[dBm]	Verdict
11A	Ant1	5180	4.34	0.12	4.46	≤23.98	PASS
		5200	6.32	0.12	6.44	≤23.98	PASS
		5240	9.47	0.12	9.59	≤23.98	PASS
11N20SISO	Ant1	5180	4.34	0.13	4.47	≤23.98	PASS
		5200	6.26	0.13	6.39	≤23.98	PASS
		5240	9.19	0.13	9.32	≤23.98	PASS
11N40SISO	Ant1	5190	5.47	0.26	5.73	≤23.98	PASS
		5230	8.66	0.26	8.92	≤23.98	PASS
11AC20SISO	Ant1	5180	4.30	0.13	4.43	≤23.98	PASS
		5200	6.21	0.13	6.34	≤23.98	PASS
		5240	9.21	0.13	9.34	≤23.98	PASS
11AC40SISO	Ant1	5190	5.47	0.26	5.73	≤23.98	PASS
		5230	8.70	0.26	8.96	≤23.98	PASS
11AC80SISO	Ant1	5210	6.00	0.51	6.51	≤23.98	PASS

#### ANT 2

TestMode	Antenna	Channel	Result[dBm]	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit[dBm]	Verdict
11A	Ant2	5180	7.59	0.12	7.71	≤23.98	PASS
		5200	8.04	0.12	8.16	≤23.98	PASS
		5240	8.38	0.12	8.50	≤23.98	PASS
11N20SISO	Ant2	5180	7.46	0.13	7.59	≤23.98	PASS
		5200	8.06	0.13	8.19	≤23.98	PASS
		5240	8.19	0.13	8.32	≤23.98	PASS
11N40SISO	Ant2	5190	6.77	0.26	7.03	≤23.98	PASS
		5230	6.52	0.26	6.78	≤23.98	PASS
11AC20SISO	Ant2	5180	5.99	0.13	6.12	≤23.98	PASS
		5200	6.40	0.13	6.53	≤23.98	PASS
		5240	6.63	0.13	6.76	≤23.98	PASS
11AC40SISO	Ant2	5190	6.28	0.26	6.54	≤23.98	PASS
		5230	6.72	0.26	6.98	≤23.98	PASS
11AC80SISO	Ant2	5210	6.09	0.51	6.60	≤23.98	PASS



**MIMO**

TestMode	Channel	Report Conducted Power (dBm)			Limit (dBm)	Verdict
		Ant 1	Ant 2	Sum		
11N20SISO	5180	4.47	7.59	9.31	≤23.97	PASS
	5200	6.39	8.19	10.39		PASS
	5240	9.32	8.32	11.86		PASS
11N40SISO	5190	5.73	7.03	9.44	≤23.97	PASS
	5230	8.92	6.78	10.99		PASS
11AC20SISO	5180	4.43	6.12	8.37	≤23.97	PASS
	5200	6.34	6.53	9.45		PASS
	5240	9.34	6.76	11.25		PASS
11AC40SISO	5190	5.73	6.54	9.16	≤23.97	PASS
	5230	8.96	6.98	11.09		PASS
11AC80SISO	5210	6.51	6.60	9.57	≤23.97	PASS



## Appendix D.3: Maximum power spectral density

### Test Result

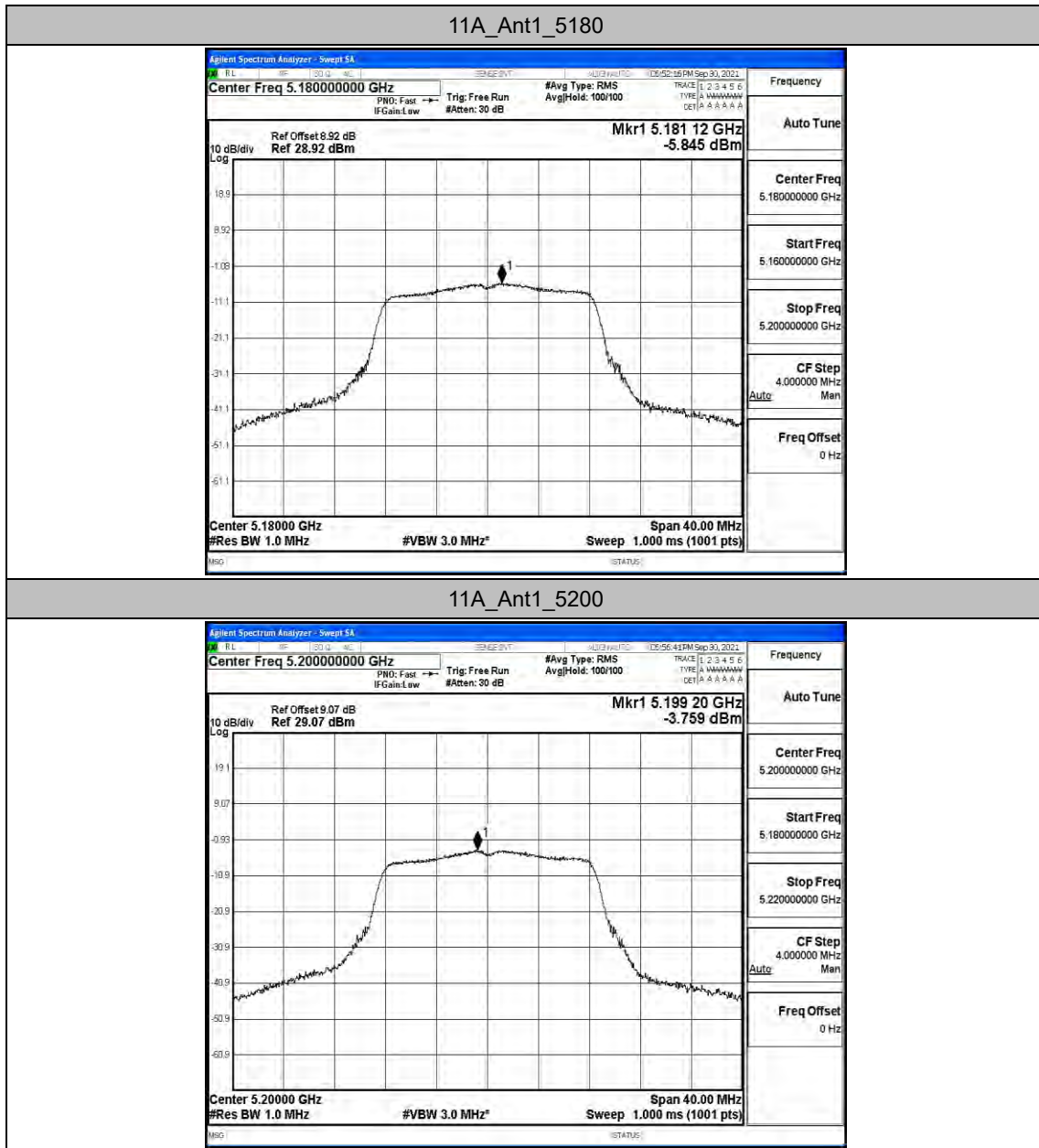
#### ANT 1

TestMode	Antenna	Channel	Result [dBm/MHz]	Duty Cycle Factor(dB)	Report power spectral density [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-5.85	0.12	-5.73	≤11	PASS
		5200	-3.76	0.12	-3.64	≤11	PASS
		5240	-0.59	0.12	-0.47	≤11	PASS
11N20SISO	Ant1	5180	-6.09	0.13	-5.96	≤11	PASS
		5200	-4.12	0.13	-3.99	≤11	PASS
		5240	-1.06	0.13	-0.93	≤11	PASS
11N40SISO	Ant1	5190	-8.33	0.26	-8.07	≤11	PASS
		5230	-5.5	0.26	-5.24	≤11	PASS
11AC20SISO	Ant1	5180	-6.01	0.13	-5.88	≤11	PASS
		5200	-4.07	0.13	-3.94	≤11	PASS
		5240	-1.14	0.13	-1.01	≤11	PASS
11AC40SISO	Ant1	5190	-8.36	0.26	-8.10	≤11	PASS
		5230	-5.73	0.26	-5.47	≤11	PASS
11AC80SISO	Ant1	5210	-10.73	0.51	-10.22	≤11	PASS

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

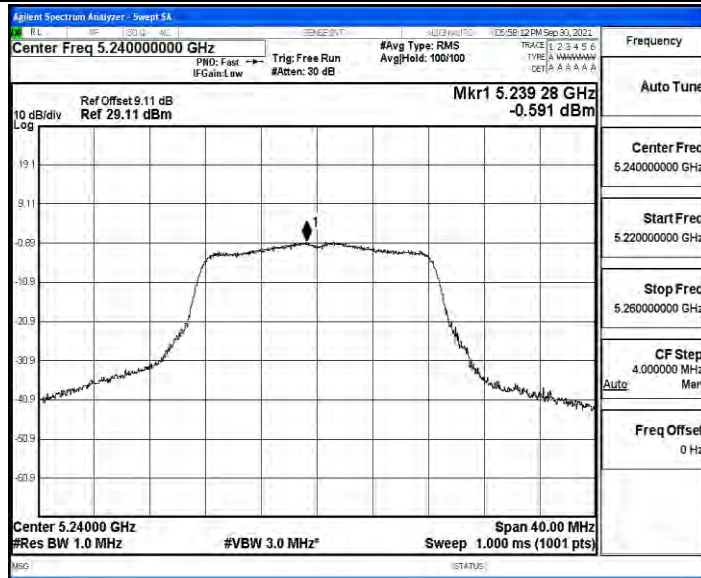


### Test Graphs

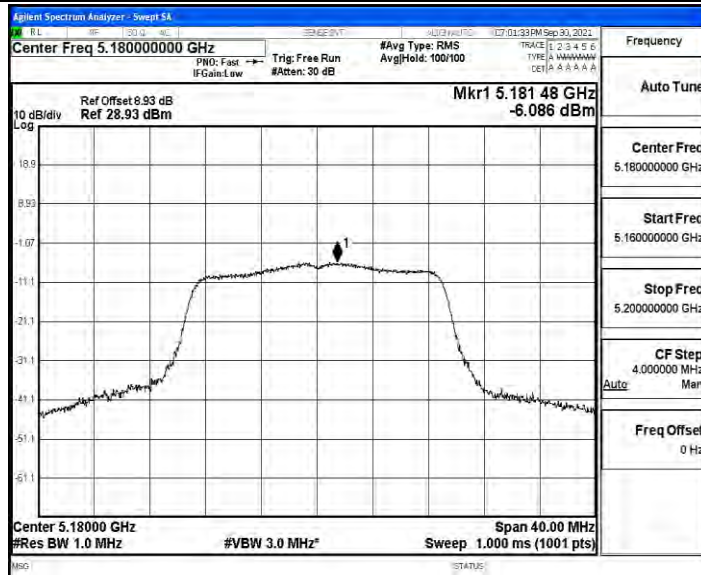




11A\_Ant1\_5240

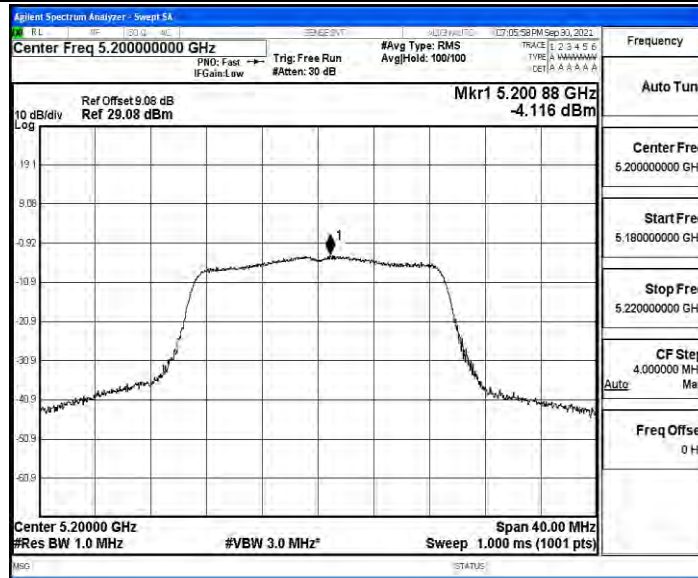


11N20SISO\_Ant1\_5180

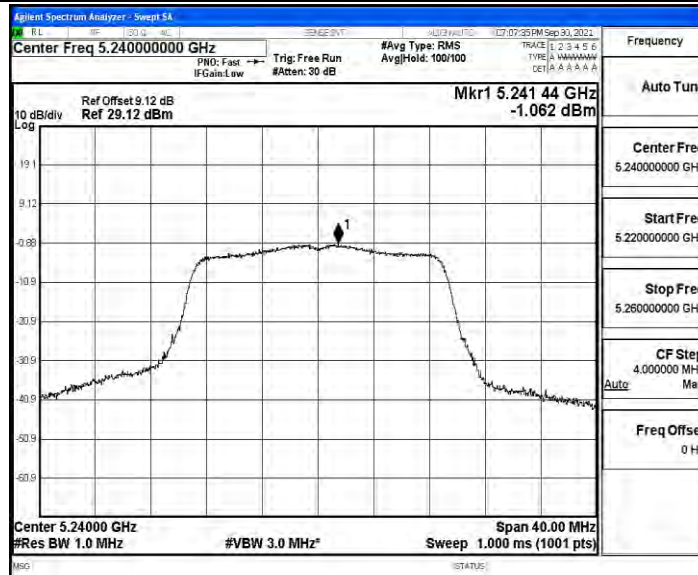




11N20SISO\_Ant1\_5200

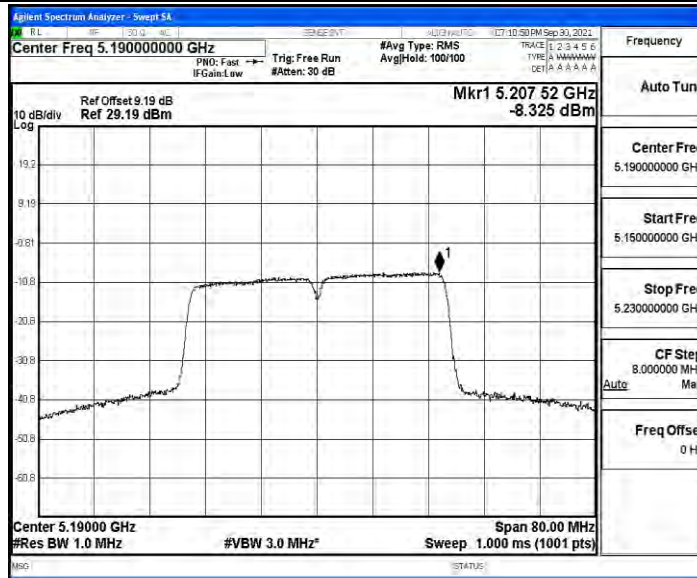


11N20SISO\_Ant1\_5240

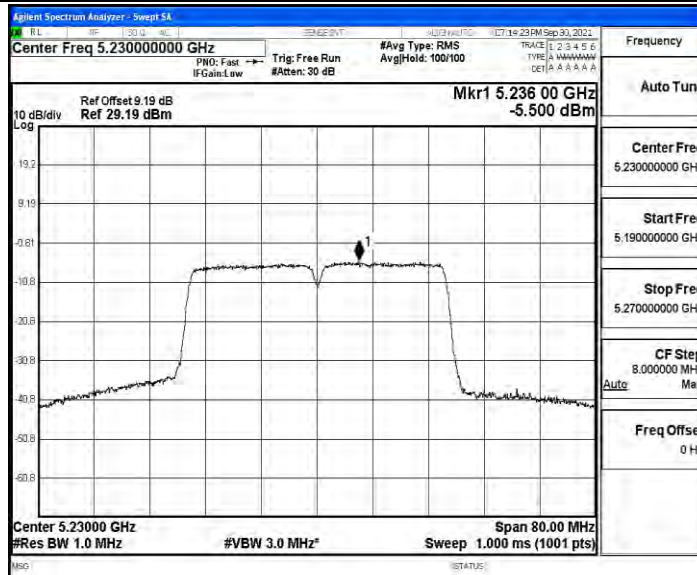




### 11N40SISO\_Ant1\_5190



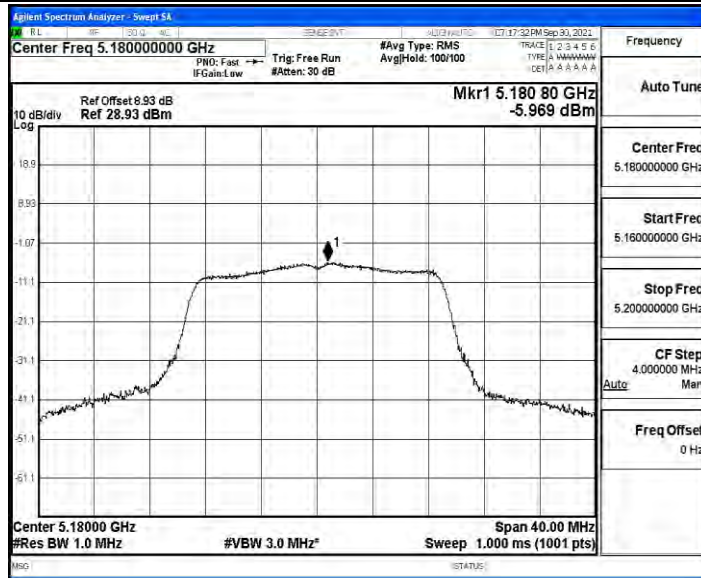
### 11N40SISO\_Ant1\_5230



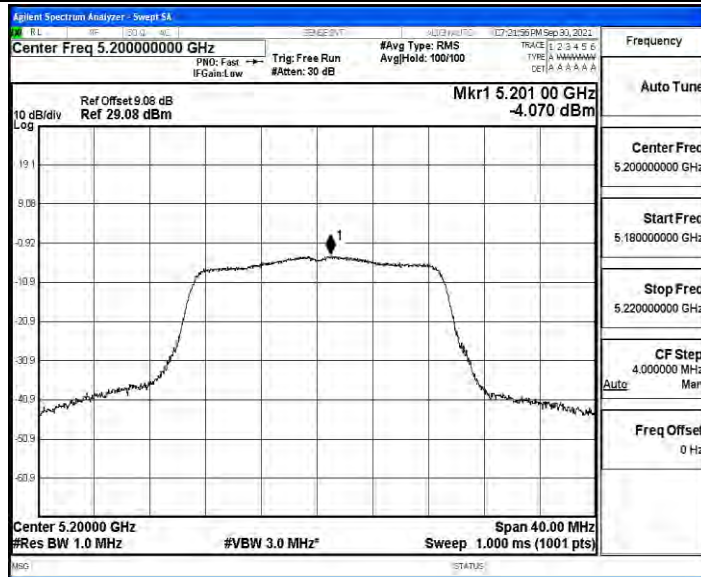




11AC20SISO\_Ant1\_5180

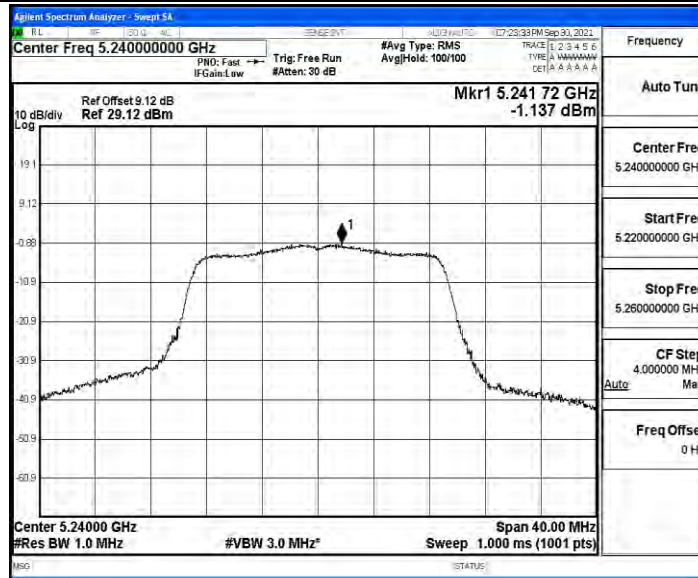


11AC20SISO\_Ant1\_5200

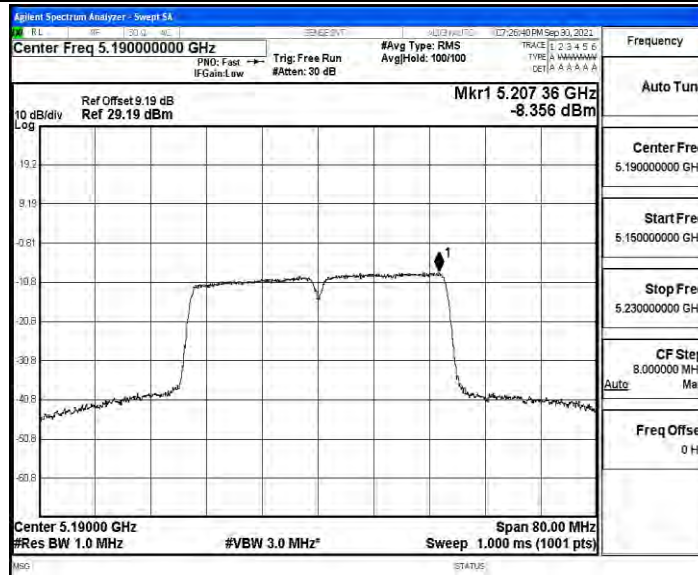




### 11AC20SISO\_Ant1\_5240

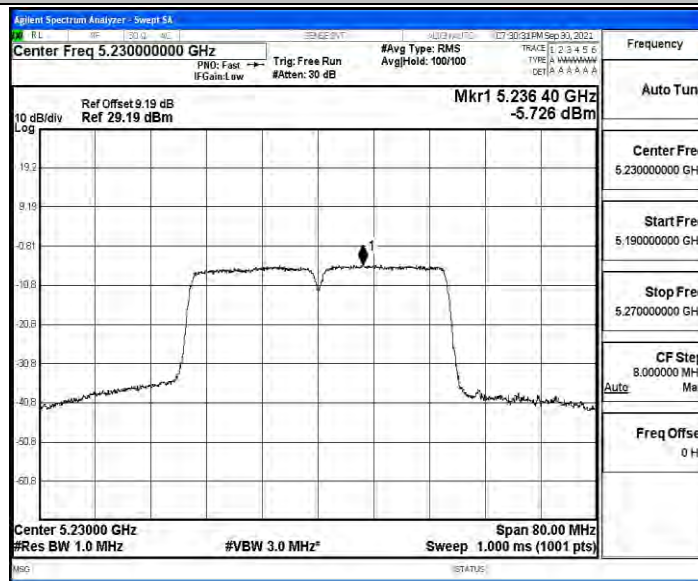


### 11AC40SISO\_Ant1\_5190

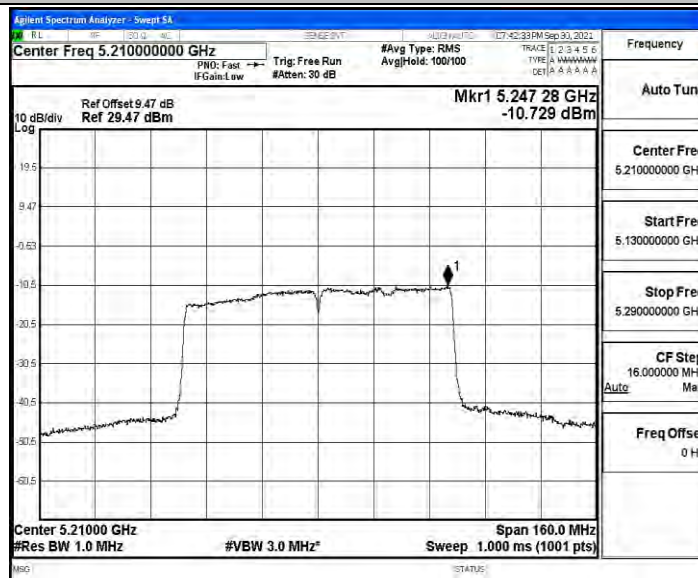




### 11AC40SISO\_Ant1\_5230



### 11AC80SISO\_Ant1\_5210





**ANT 2**

TestMode	Antenna	Channel	Result [dBm/MHz]	Duty Cycle Factor(dB)	Report power spectral density [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	-2.63	0.12	-2.51	≤11	PASS
		5200	-1.70	0.12	-1.58	≤11	PASS
		5240	-1.71	0.12	-1.59	≤11	PASS
11N20SISO	Ant2	5180	-3.07	0.13	-2.94	≤11	PASS
		5200	-2.37	0.13	-2.24	≤11	PASS
		5240	-2.13	0.13	-2.00	≤11	PASS
11N40SISO	Ant2	5190	-7.40	0.26	-7.14	≤11	PASS
		5230	-7.71	0.26	-7.45	≤11	PASS
11AC20SISO	Ant2	5180	-4.14	0.13	-4.01	≤11	PASS
		5200	-3.96	0.13	-3.83	≤11	PASS
		5240	-3.69	0.13	-3.56	≤11	PASS
11AC40SISO	Ant2	5190	-7.82	0.26	-7.56	≤11	PASS
		5230	-7.55	0.26	-7.29	≤11	PASS
11AC80SISO	Ant2	5210	-11.03	0.51	-10.52	≤11	PASS

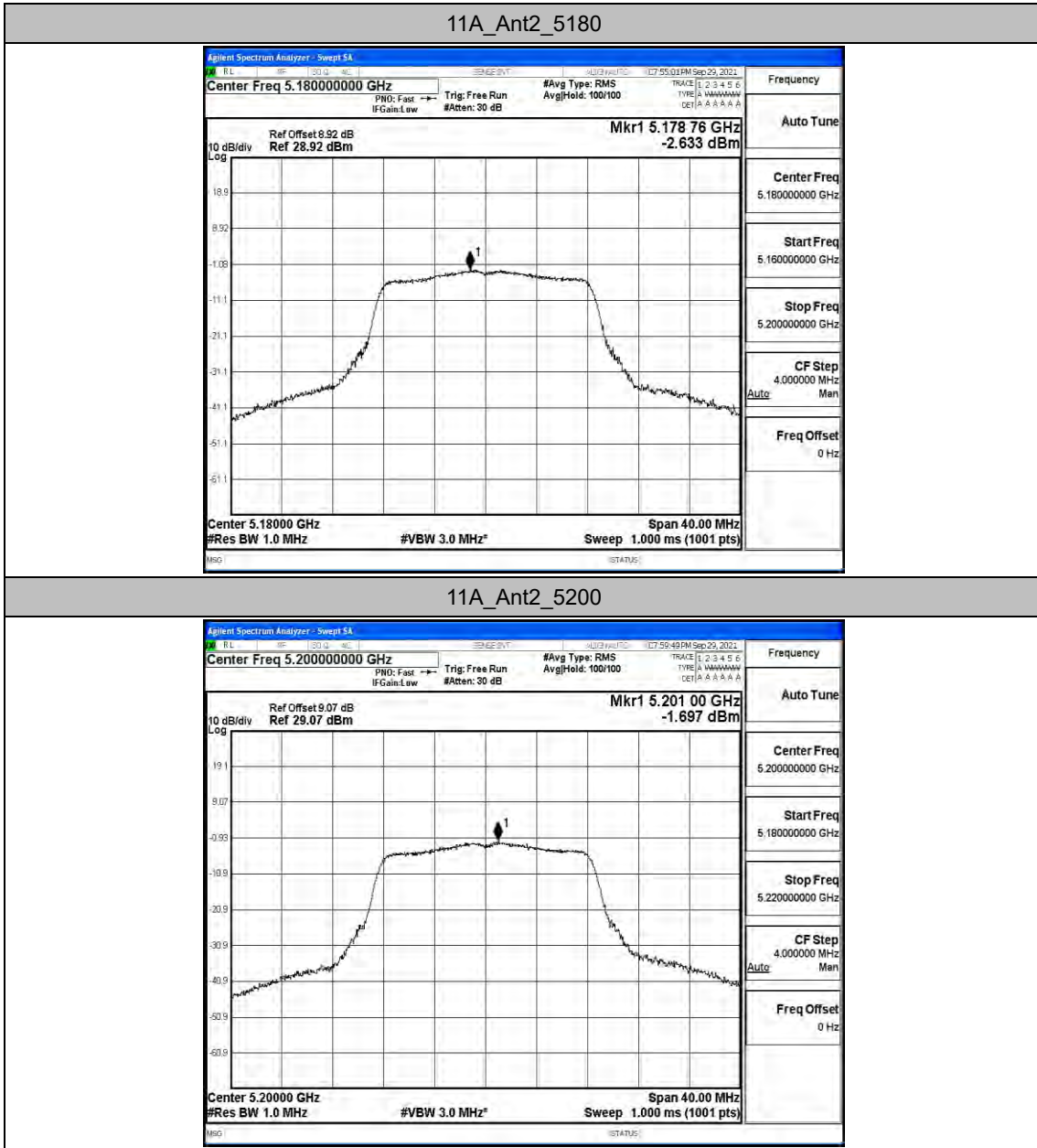
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

**MIMO**

TestMode	Channel	Report power spectral density [dBm/MHz]			Limit[dBm/MHz]	Verdict
		Ant 1	Ant 2	Sum		
11N20SISO	5180	-5.96	-2.94	-1.18	≤10.99	PASS
	5200	-3.99	-2.24	-0.02		PASS
	5240	-0.93	-2.00	1.58		PASS
11N40SISO	5190	-8.07	-7.14	-4.57	≤10.99	PASS
	5230	-5.24	-7.45	-3.20		PASS
11AC20SISO	5180	-5.88	-4.01	-1.83	≤10.99	PASS
	5200	-3.94	-3.83	-0.87		PASS
	5240	-1.01	-3.56	0.91		PASS
11AC40SISO	5190	-8.10	-7.56	-4.81	≤10.99	PASS
	5230	-5.47	-7.29	-3.28		PASS
11AC80SISO	5210	-10.22	-10.52	-7.36	≤10.99	PASS

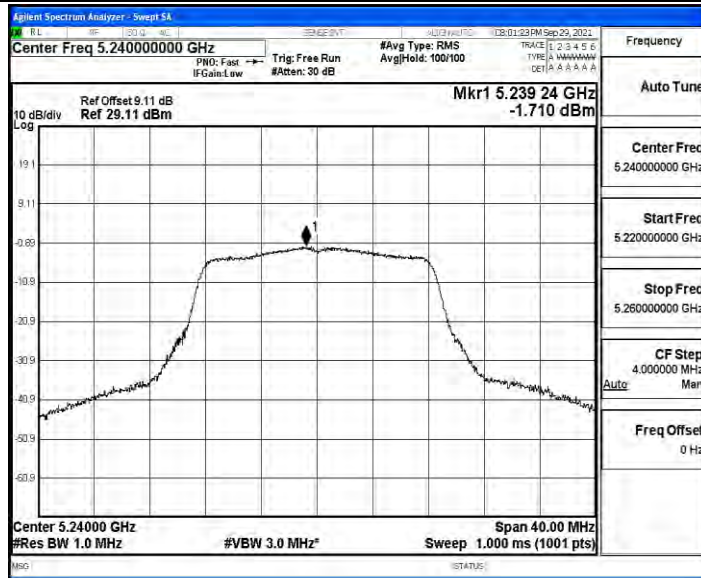


### Test Graphs

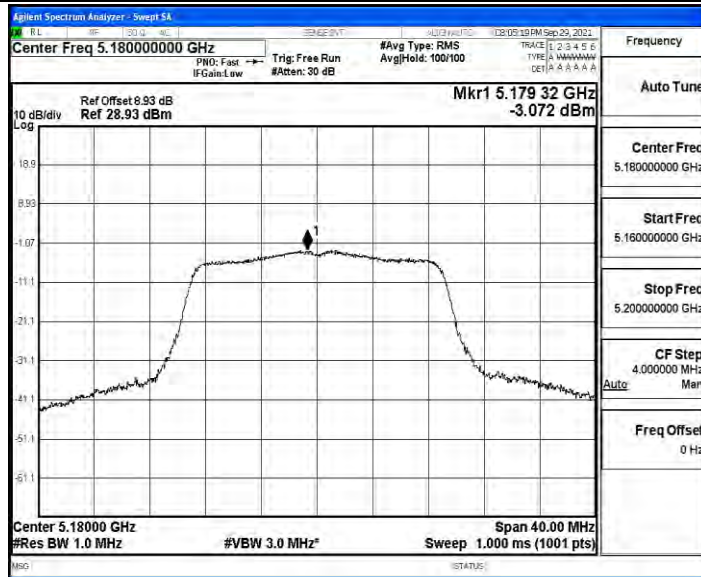




### 11A\_Ant2\_5240

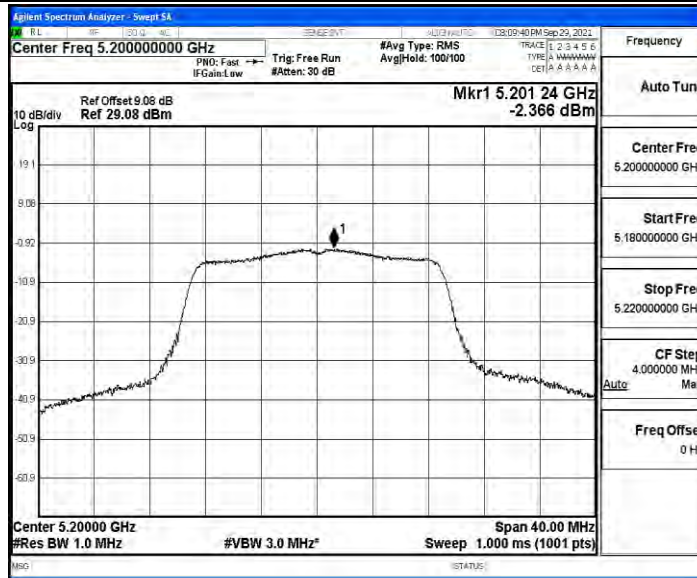


### 11N20SISO\_Ant2\_5180

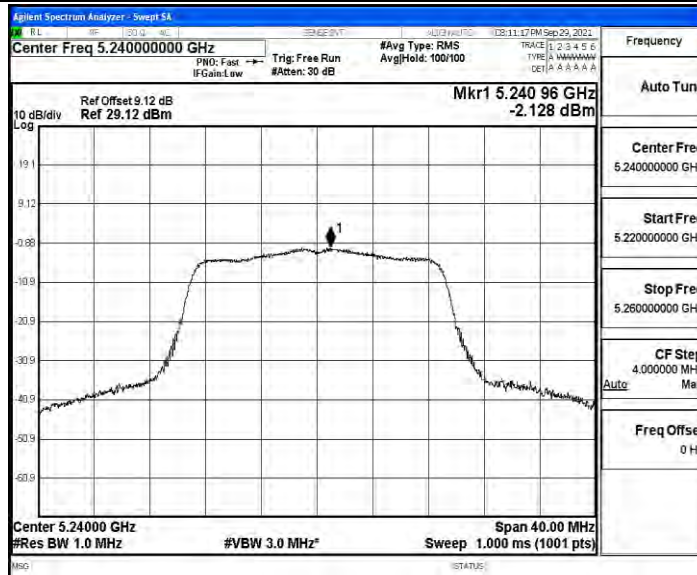




11N20SISO\_Ant2\_5200

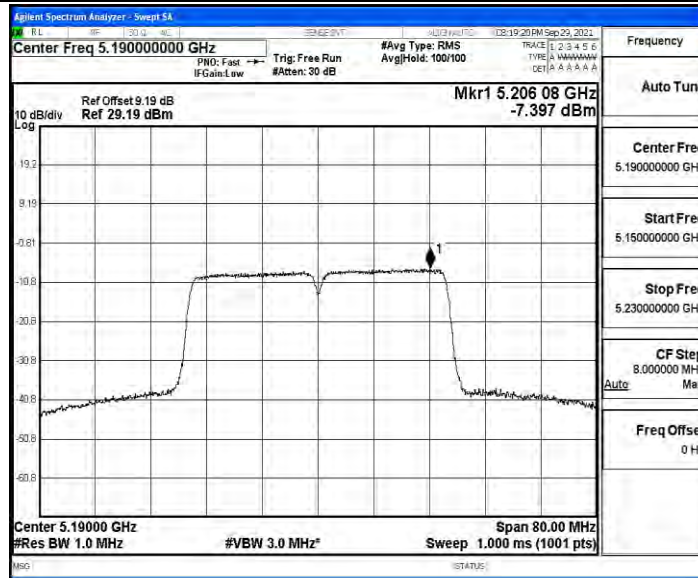


11N20SISO\_Ant2\_5240

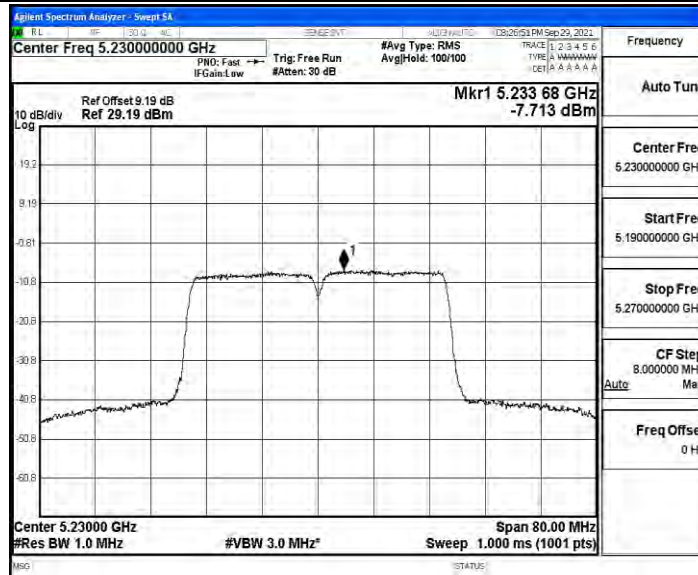




11N40SISO\_Ant2\_5190



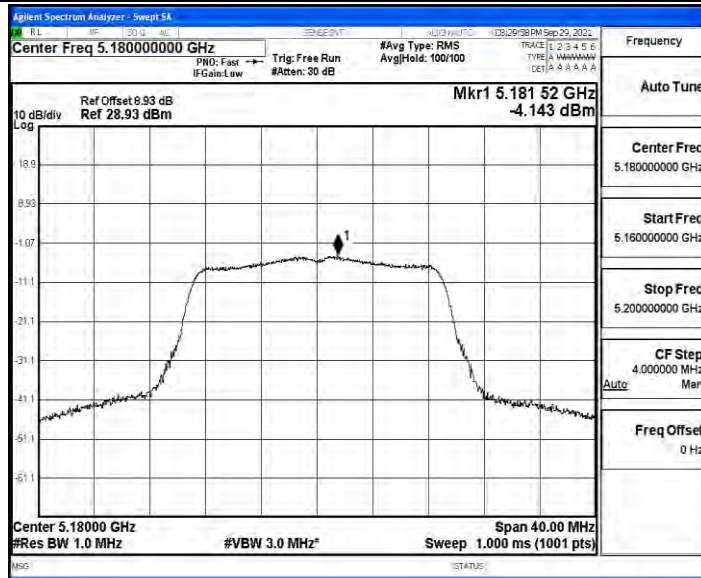
11N40SISO\_Ant2\_5230



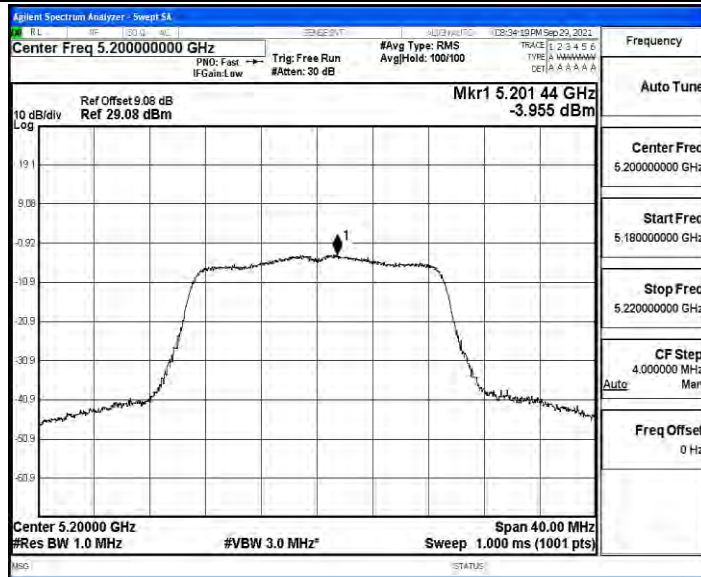




11AC20SISO\_Ant2\_5180

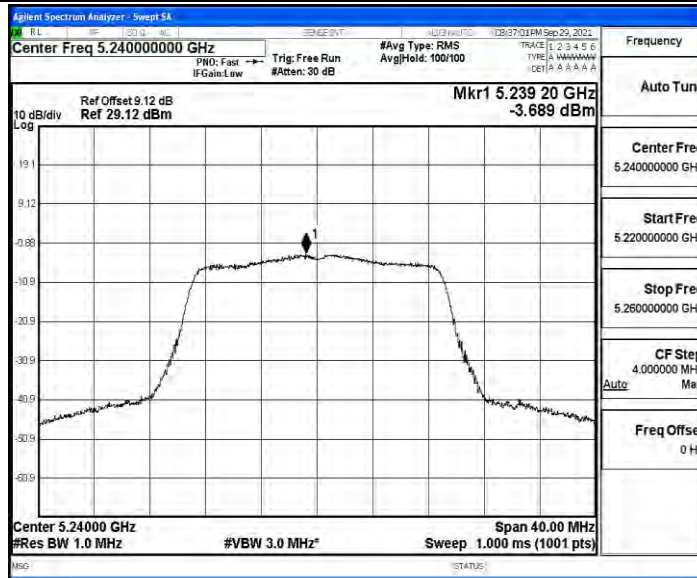


11AC20SISO\_Ant2\_5200

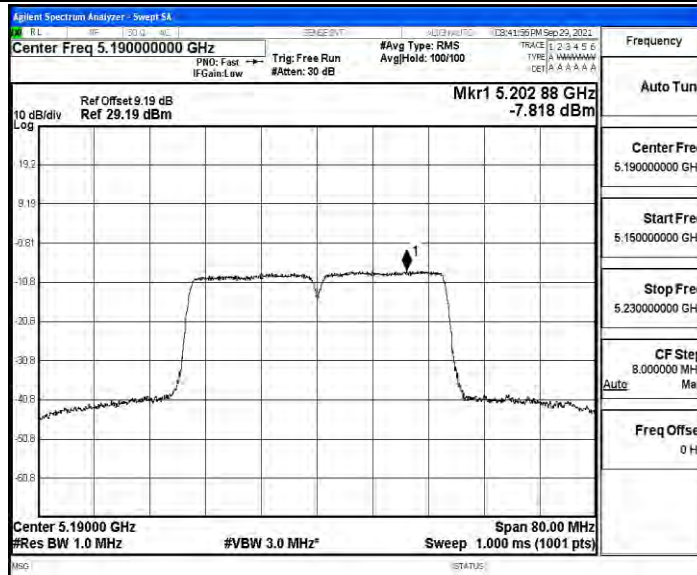




### 11AC20SISO\_Ant2\_5240

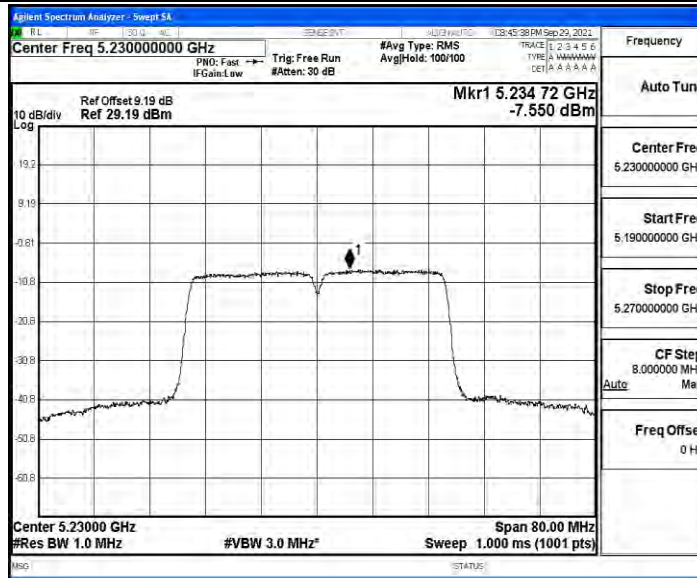


### 11AC40SISO\_Ant2\_5190

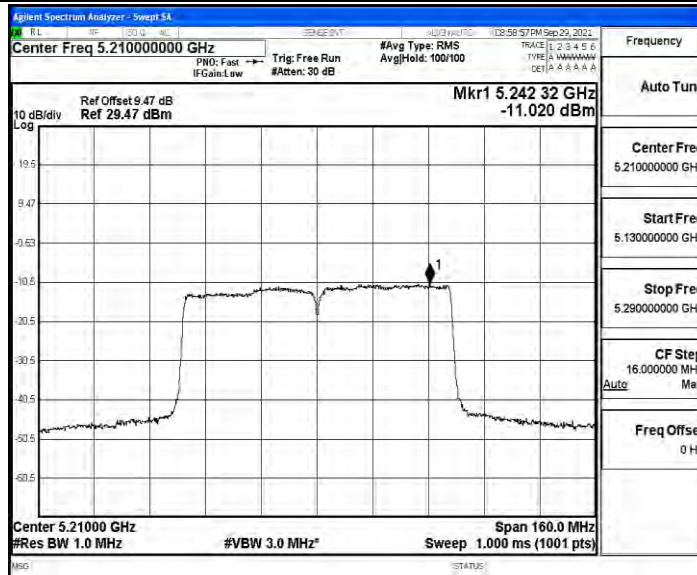




### 11AC40SISO\_Ant2\_5230



### 11AC80SISO\_Ant2\_5210





## Appendix D.4.1: Emission Bandwidth

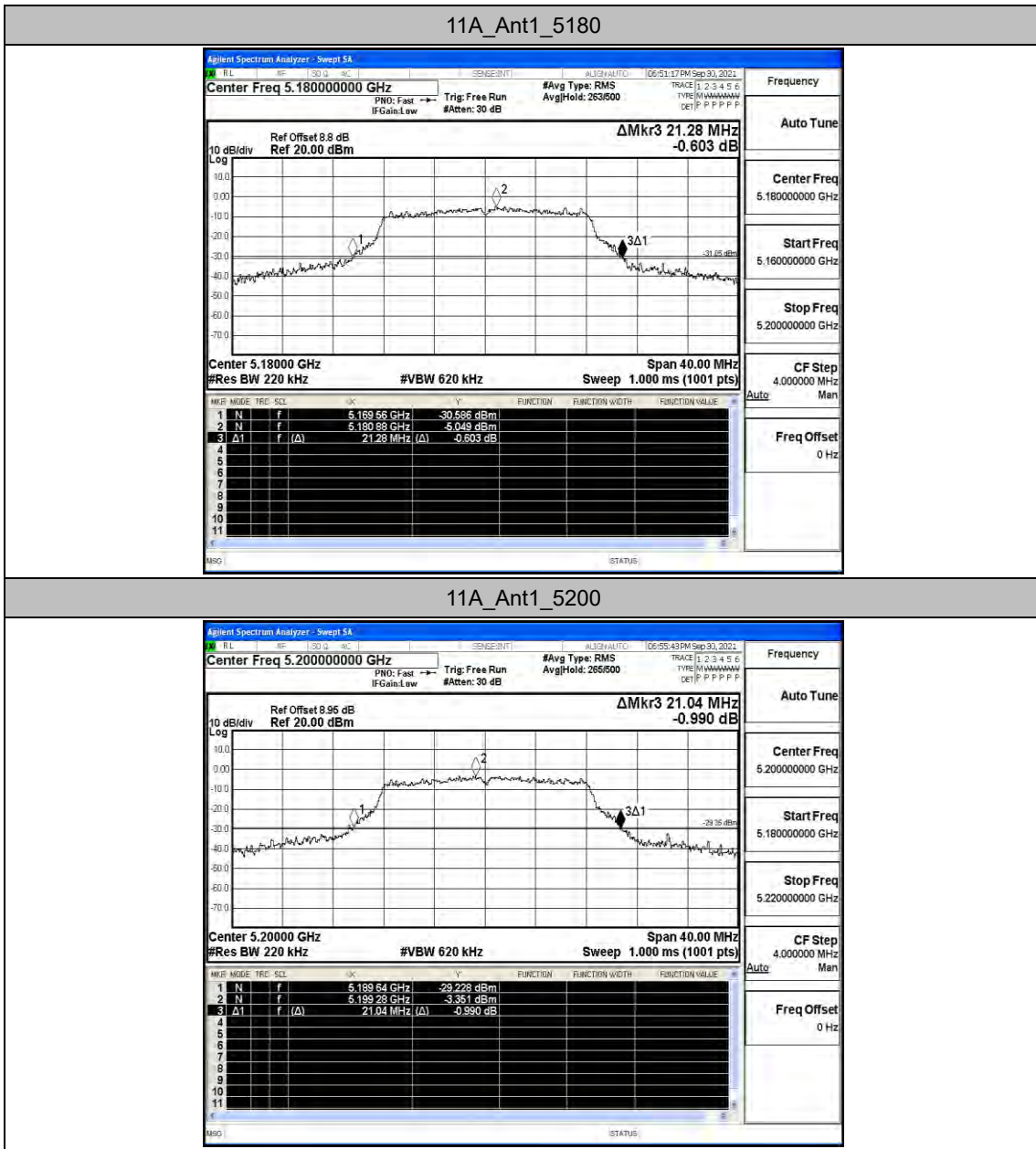
### Test Result

#### ANT 1

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.280	5169.560	5190.840	---	PASS
		5200	21.040	5189.640	5210.680	---	PASS
		5240	21.400	5229.240	5250.640	---	PASS
11N20SISO	Ant1	5180	21.960	5169.240	5191.200	---	PASS
		5200	21.720	5189.240	5210.960	---	PASS
		5240	21.600	5229.160	5250.760	---	PASS
11N40SISO	Ant1	5190	41.120	5169.040	5210.160	---	PASS
		5230	41.120	5209.040	5250.160	---	PASS
11AC20SISO	Ant1	5180	21.840	5169.200	5191.040	---	PASS
		5200	21.600	5189.240	5210.840	---	PASS
		5240	21.200	5229.440	5250.640	---	PASS
11AC40SISO	Ant1	5190	40.400	5170.000	5210.400	---	PASS
		5230	40.320	5210.000	5250.320	---	PASS
11AC80SISO	Ant1	5210	81.920	5169.680	5251.600	---	PASS

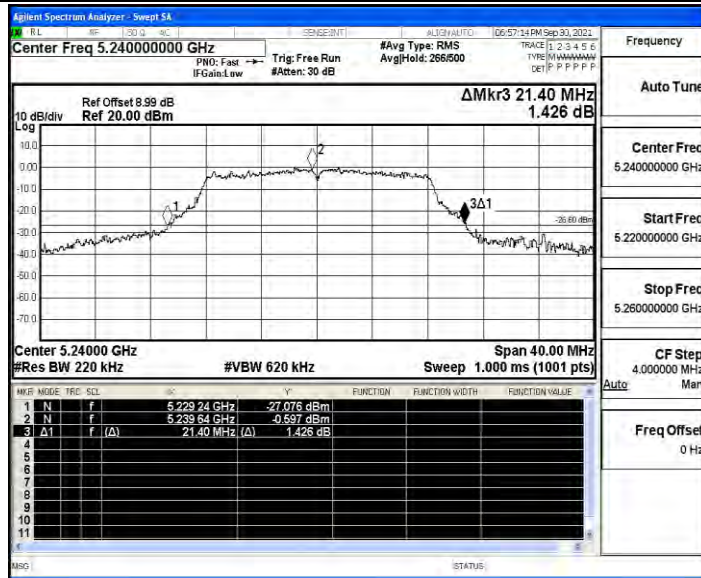


### Test Graphs

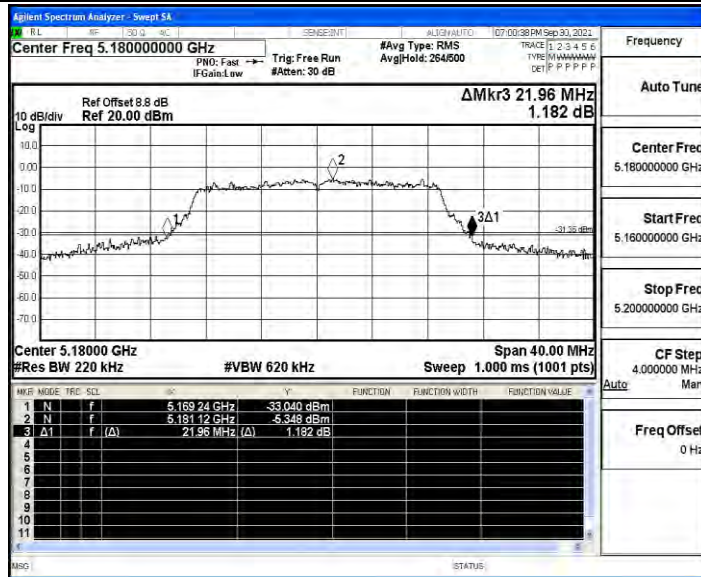




11A\_Ant1\_5240

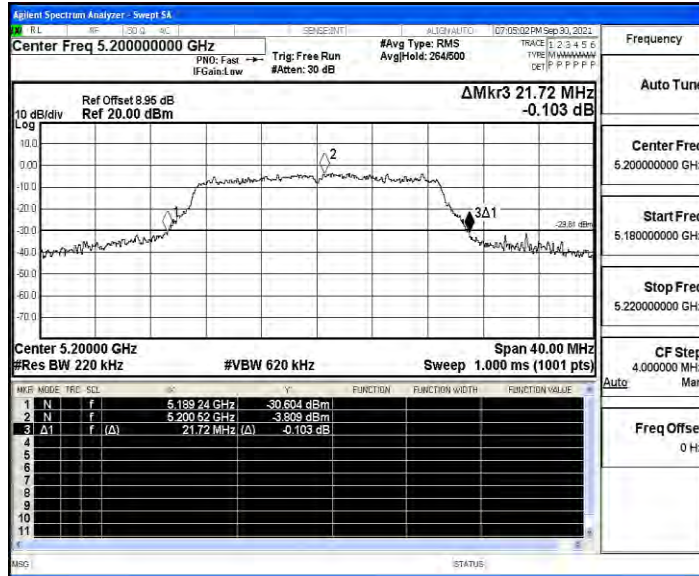


11N20SISO\_Ant1\_5180

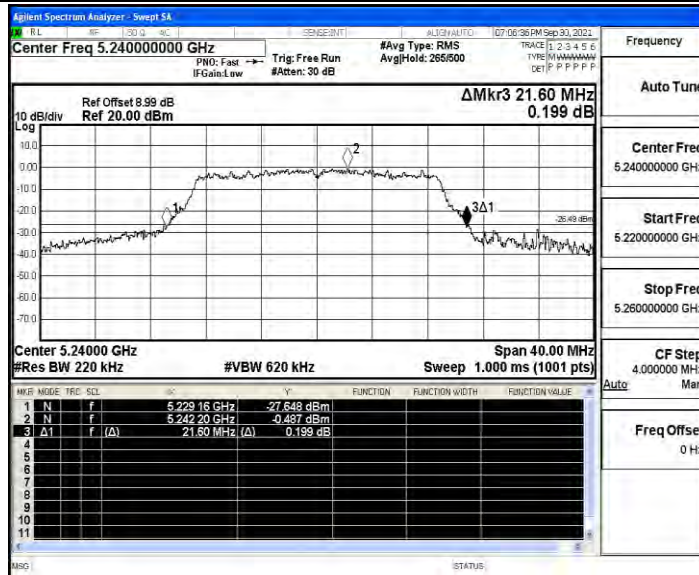




11N20SISO\_Ant1\_5200

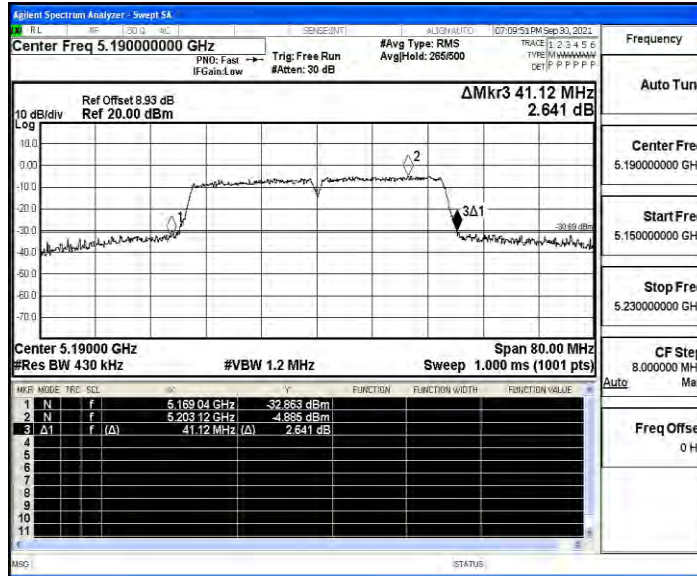


11N20SISO\_Ant1\_5240

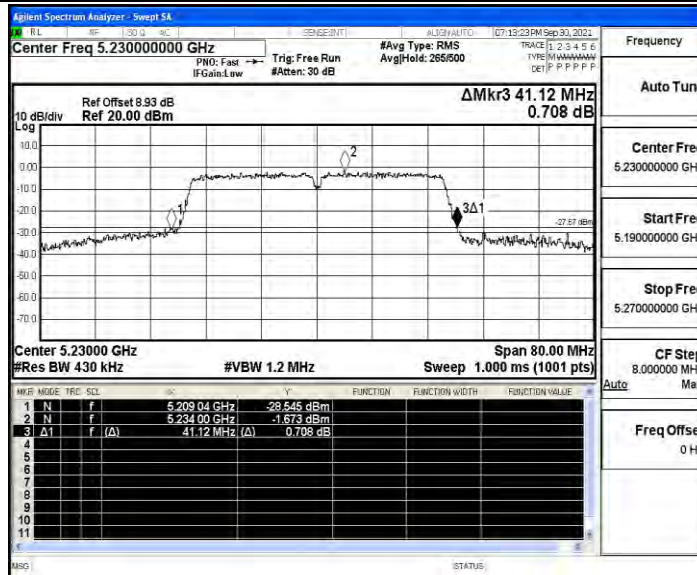




11N40SISO\_Ant1\_5190



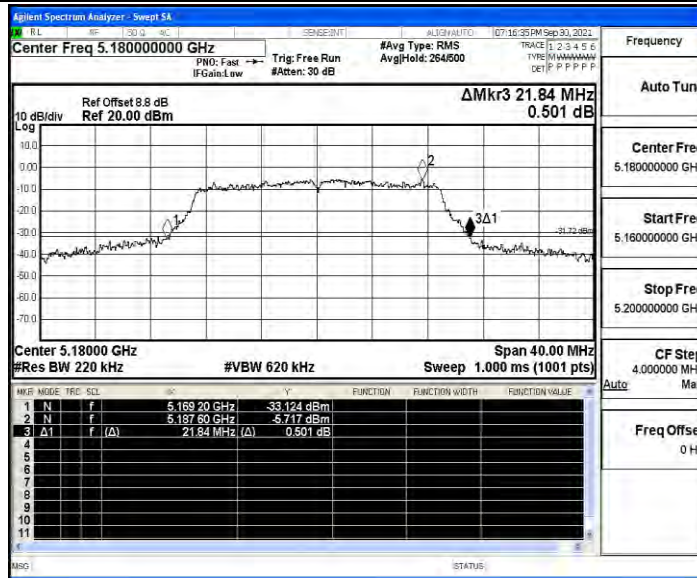
11N40SISO\_Ant1\_5230



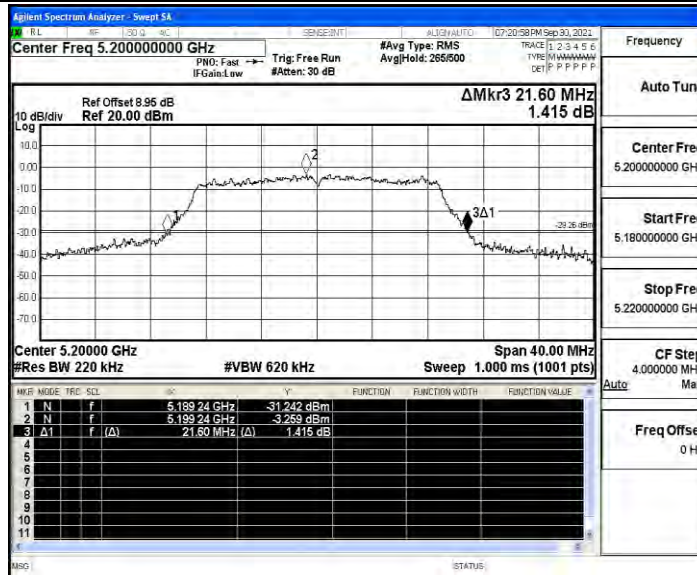




11AC20SISO\_Ant1\_5180

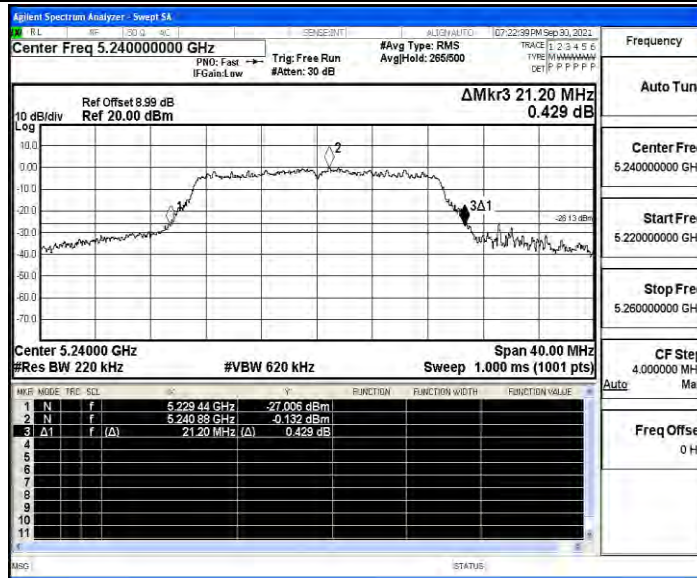


11AC20SISO\_Ant1\_5200

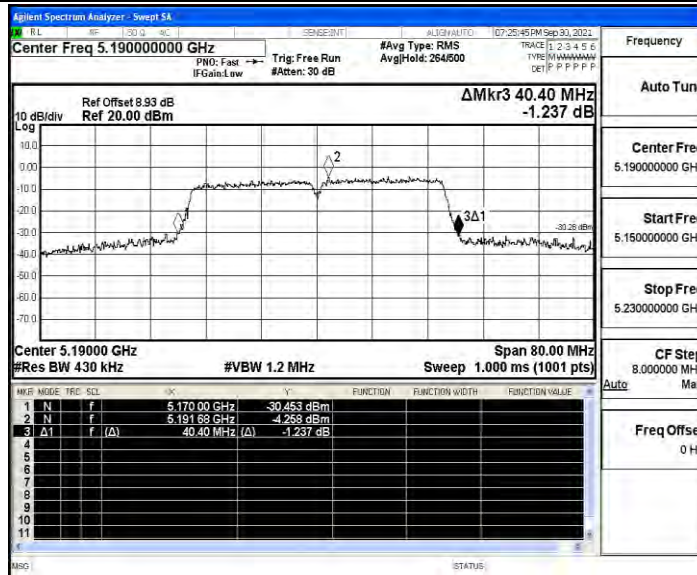




11AC20SISO\_Ant1\_5240

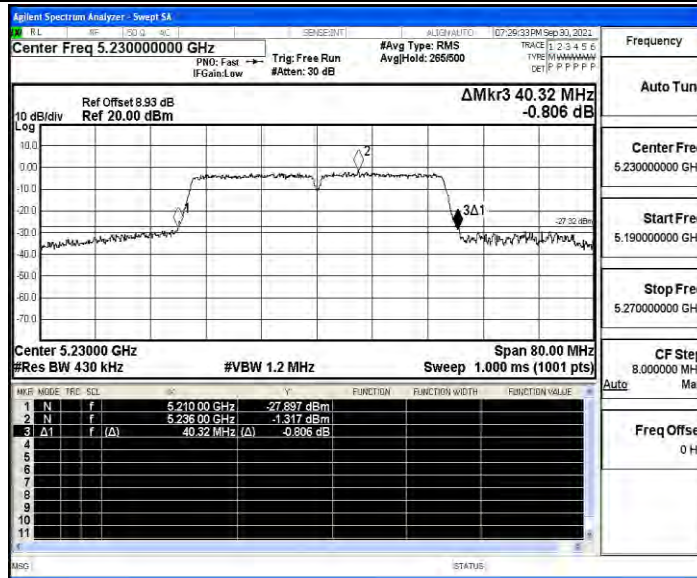


11AC40SISO\_Ant1\_5190

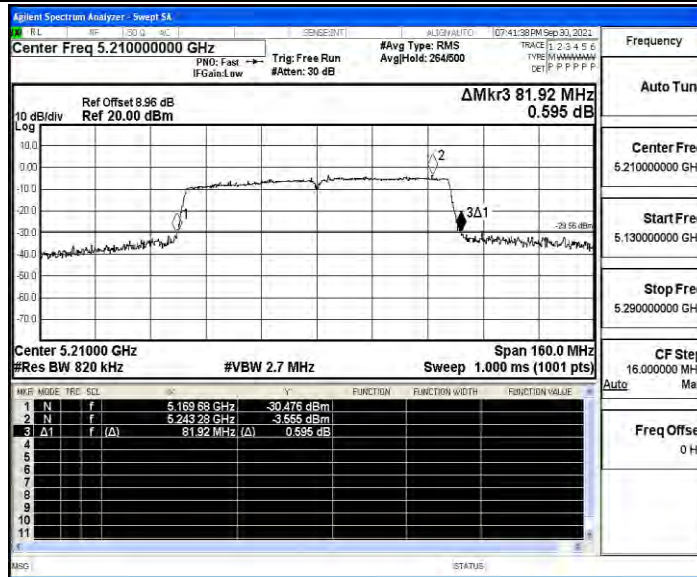




11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



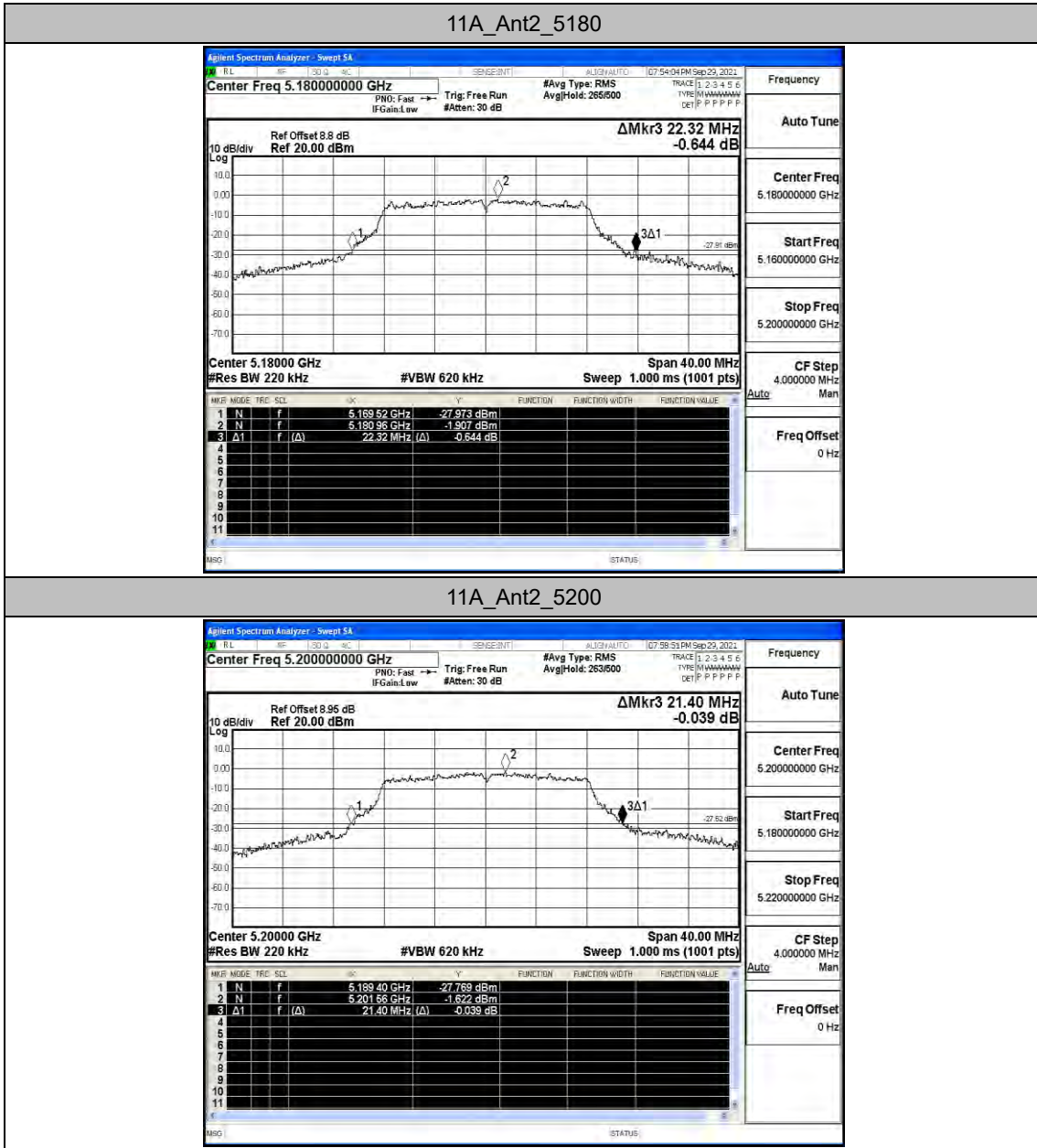


**ANT 2**

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	22.32	5169.560	5190.840	---	PASS
		5200	21.40	5189.640	5210.680	---	PASS
		5240	21.24	5229.240	5250.640	---	PASS
11N20SISO	Ant2	5180	23.16	5169.240	5191.200	---	PASS
		5200	22.12	5189.240	5210.960	---	PASS
		5240	21.48	5229.160	5250.760	---	PASS
11N40SISO	Ant2	5190	40.00	5169.040	5210.160	---	PASS
		5230	40.40	5209.040	5250.160	---	PASS
11AC20SISO	Ant2	5180	21.72	5169.200	5191.040	---	PASS
		5200	21.28	5189.240	5210.840	---	PASS
		5240	21.56	5229.440	5250.640	---	PASS
11AC40SISO	Ant2	5190	40.80	5170.000	5210.400	---	PASS
		5230	40.08	5210.000	5250.320	---	PASS
11AC80SISO	Ant2	5210	82.56	5169.680	5251.600	---	PASS

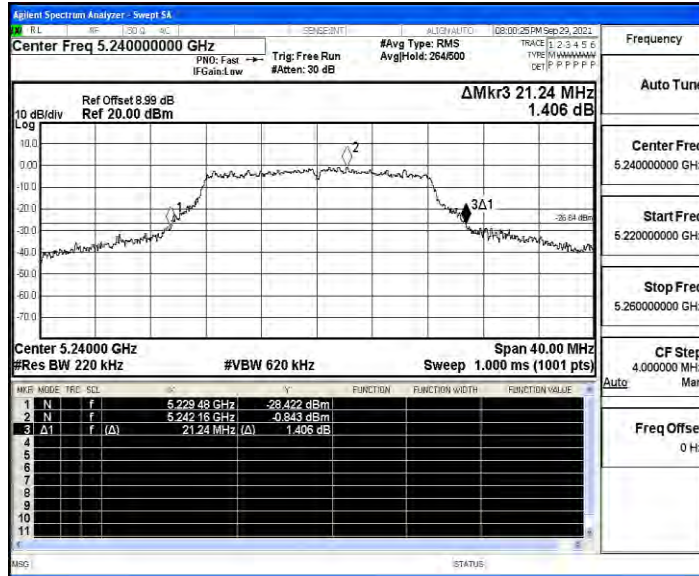


### Test Graphs

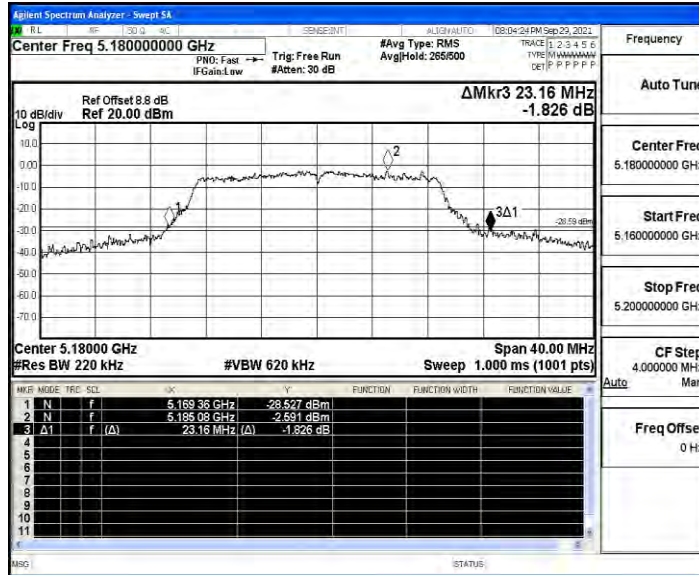




11A\_Ant2\_5240

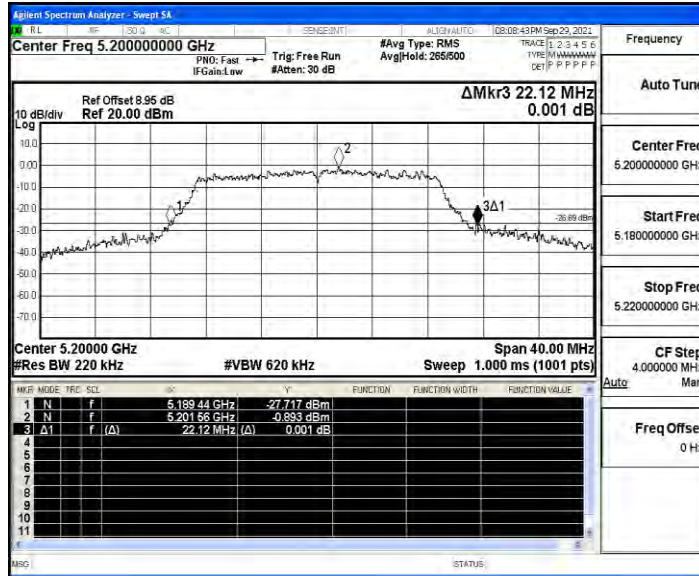


11N20SISO\_Ant2\_5180

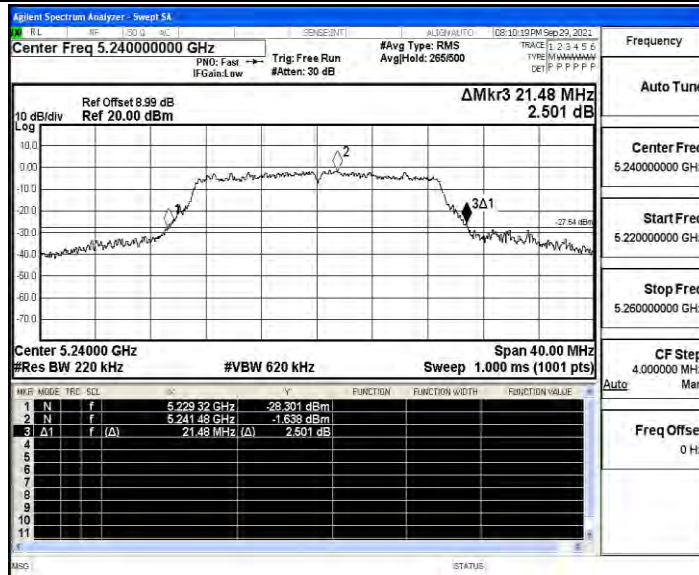




11N20SISO\_Ant2\_5200

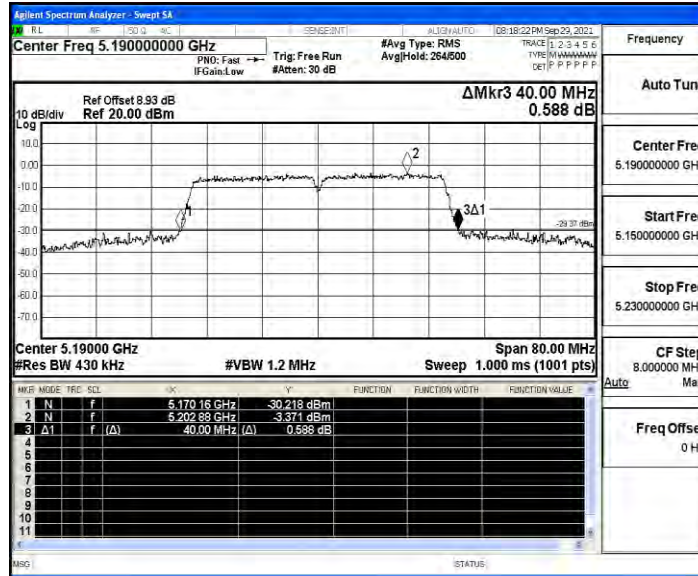


11N20SISO\_Ant2\_5240

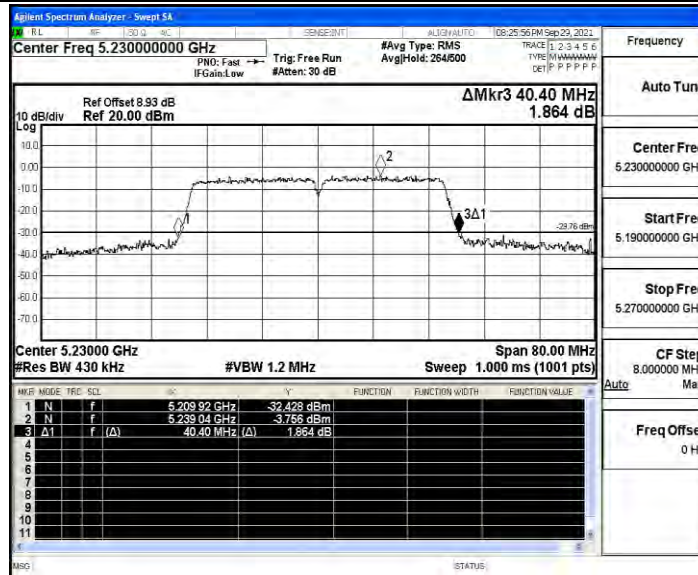




11N40SISO\_Ant2\_5190



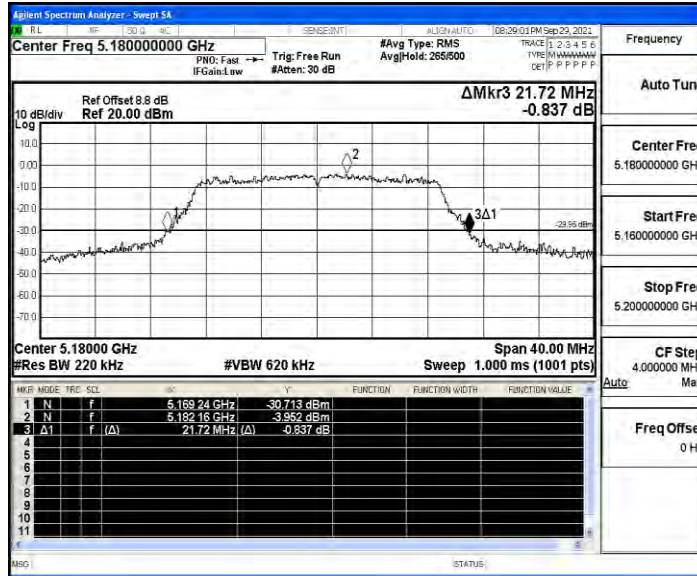
11N40SISO\_Ant2\_5230



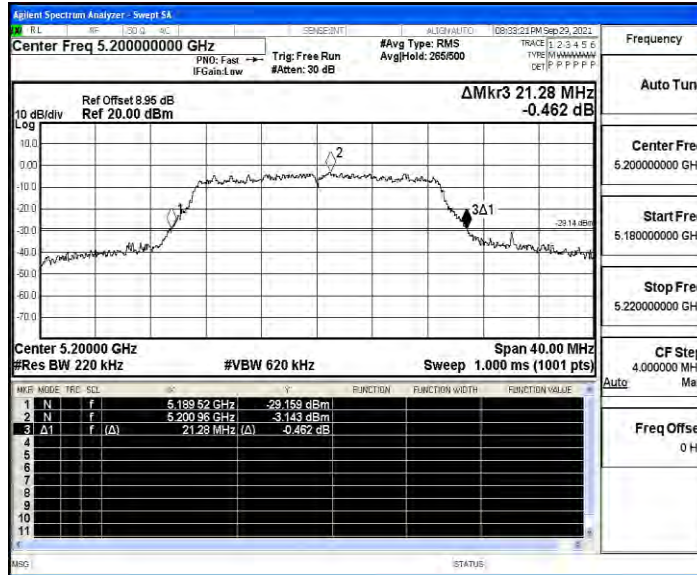




11AC20SISO\_Ant2\_5180

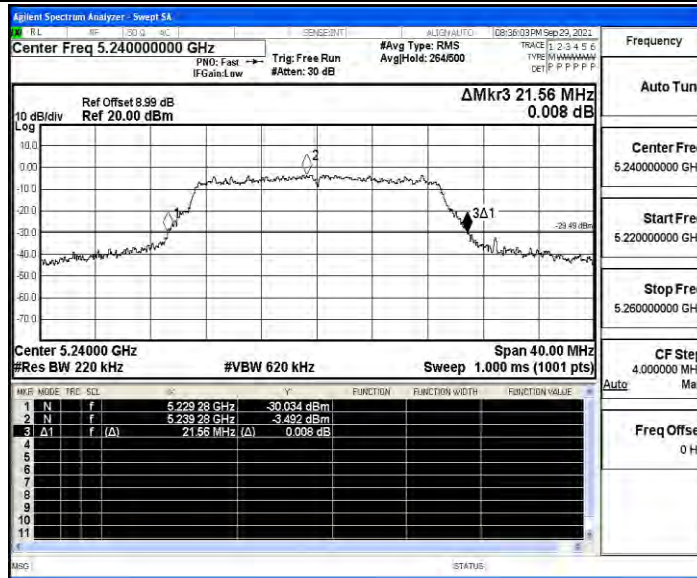


11AC20SISO\_Ant2\_5200

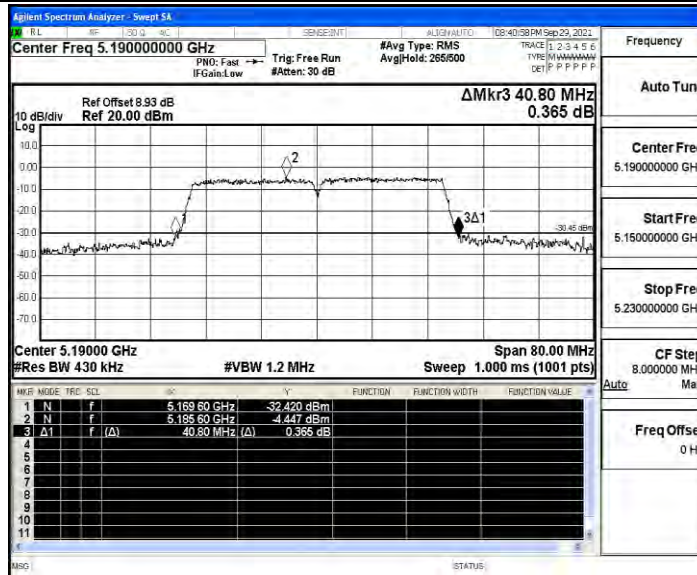




11AC20SISO\_Ant2\_5240

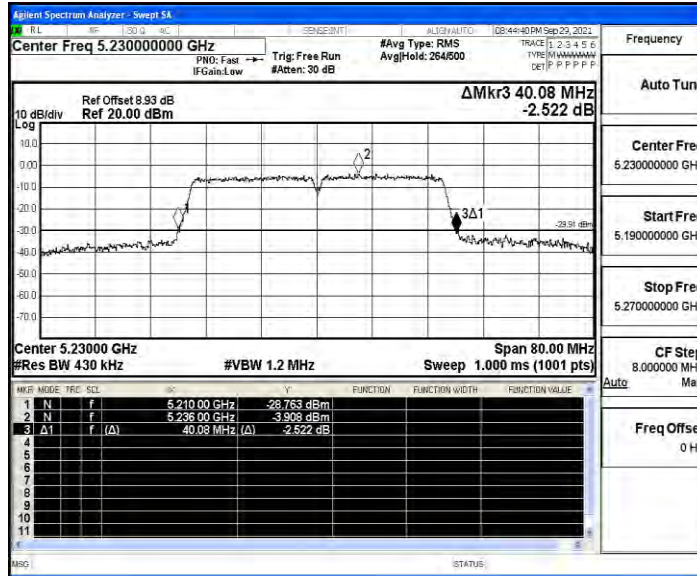


11AC40SISO\_Ant2\_5190

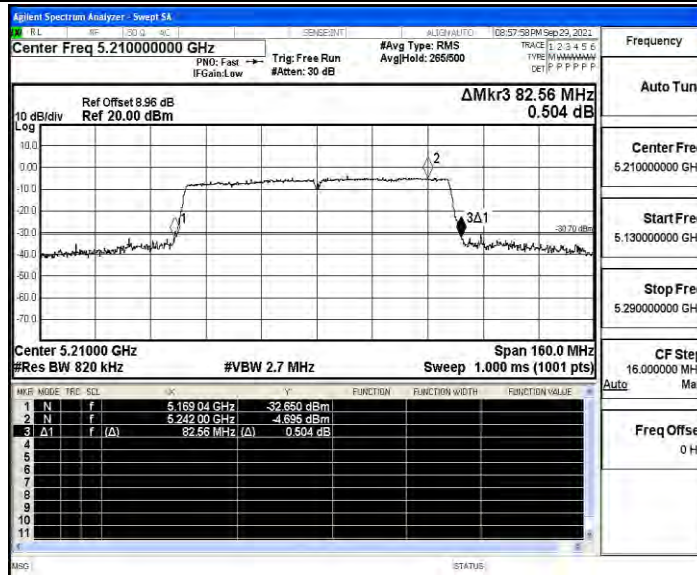




11AC40SISO\_Ant2\_5230



11AC80SISO\_Ant2\_5210





## Appendix D.4.2: Occupied channel bandwidth

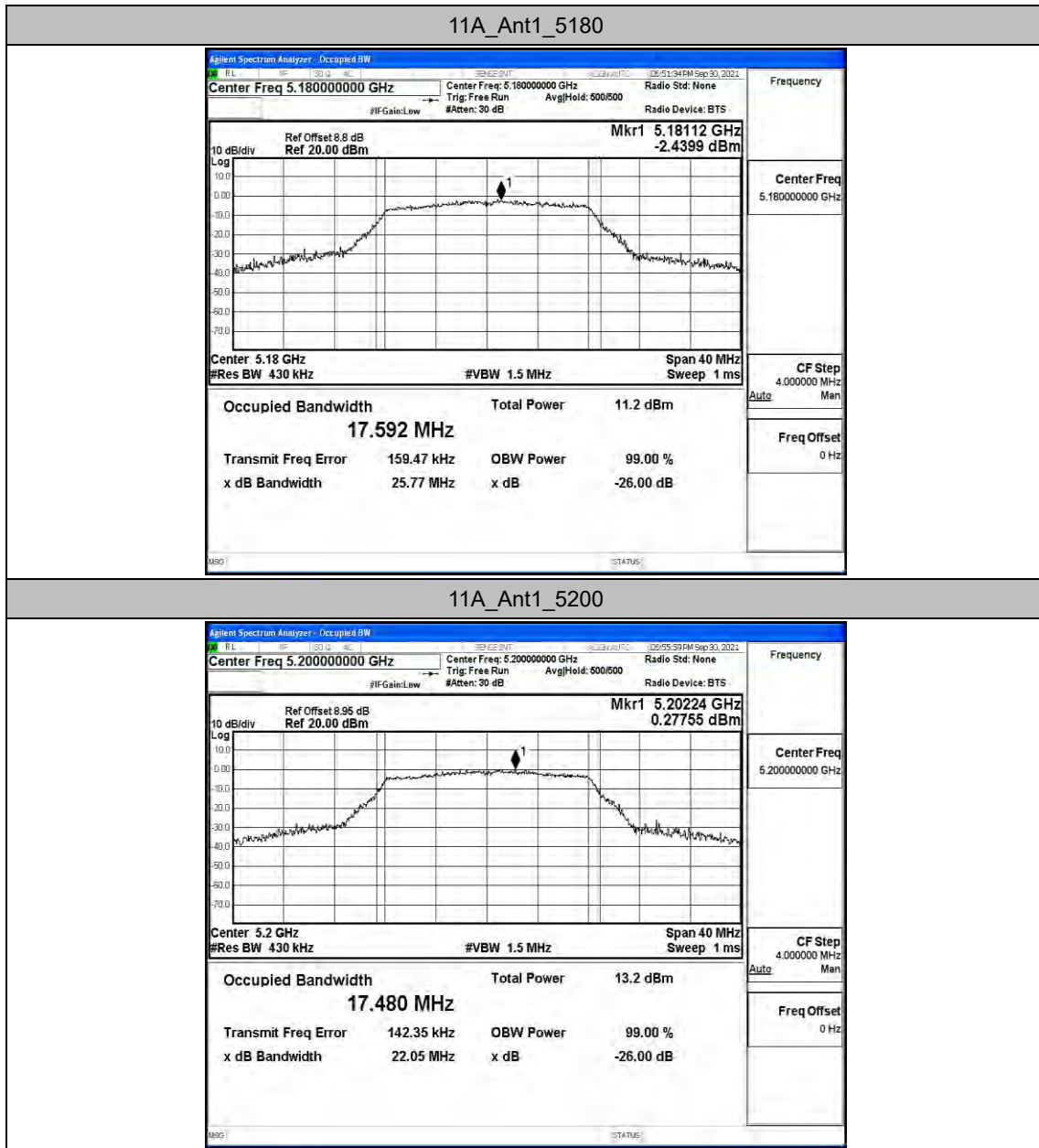
### Test Result

#### ANT 1

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.592	5171.363	5188.955	---	PASS
		5200	17.480	5191.402	5208.882	---	PASS
		5240	17.457	5231.371	5248.828	---	PASS
11N20SISO	Ant1	5180	18.570	5170.826	5189.396	---	PASS
		5200	18.427	5190.926	5209.353	---	PASS
		5240	18.416	5230.861	5249.277	---	PASS
11N40SISO	Ant1	5190	36.836	5171.849	5208.685	---	PASS
		5230	36.843	5211.703	5248.546	---	PASS
11AC20SISO	Ant1	5180	18.502	5170.896	5189.398	---	PASS
		5200	18.462	5190.887	5209.349	---	PASS
		5240	18.439	5230.848	5249.287	---	PASS
11AC40SISO	Ant1	5190	36.815	5171.889	5208.704	---	PASS
		5230	36.845	5211.737	5248.582	---	PASS
11AC80SISO	Ant1	5210	75.865	5172.628	5248.493	---	PASS

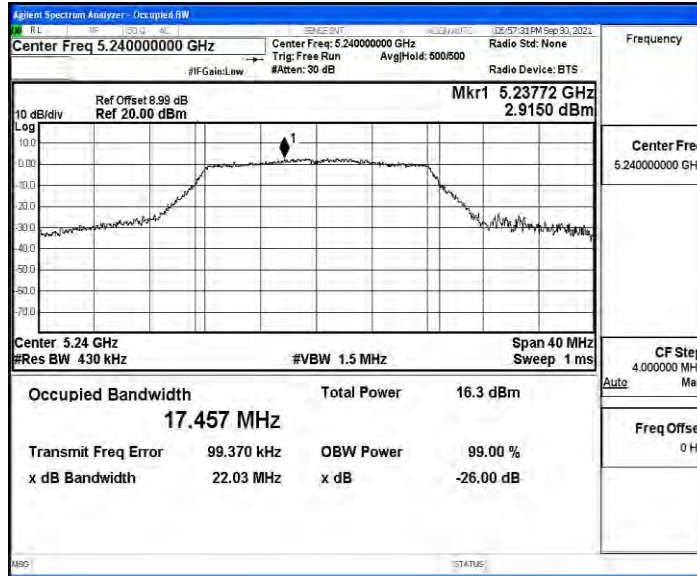


### Test Graphs

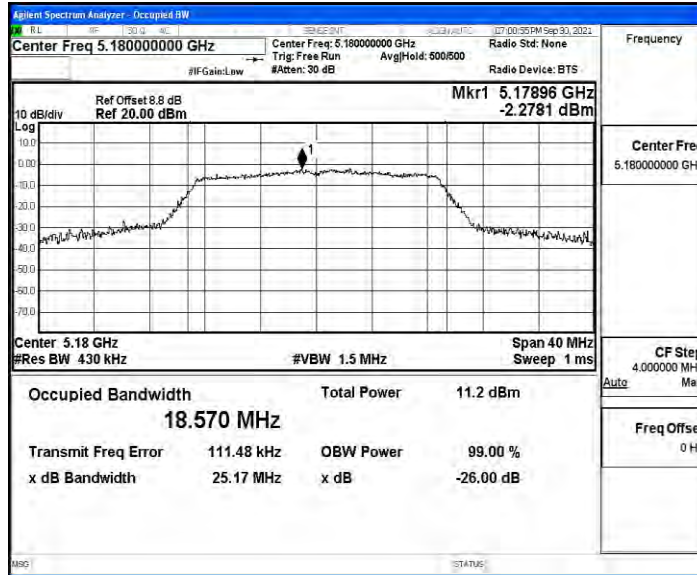




11A\_Ant1\_5240

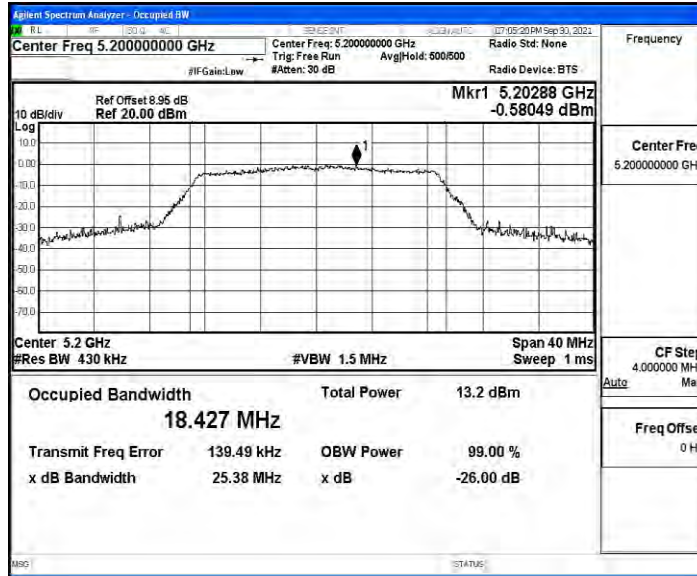


11N20SISO\_Ant1\_5180

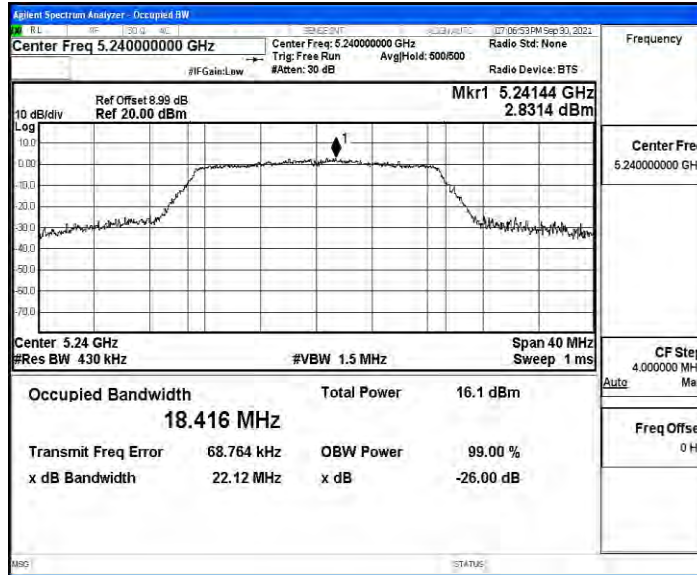




11N20SISO\_Ant1\_5200

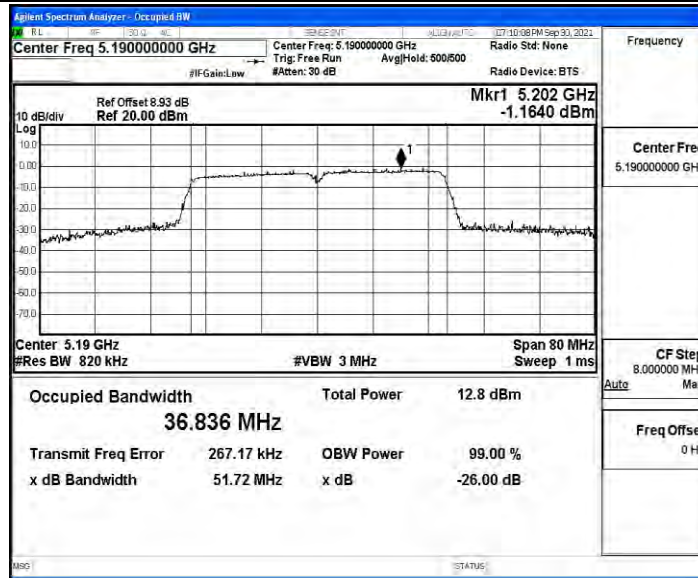


11N20SISO\_Ant1\_5240

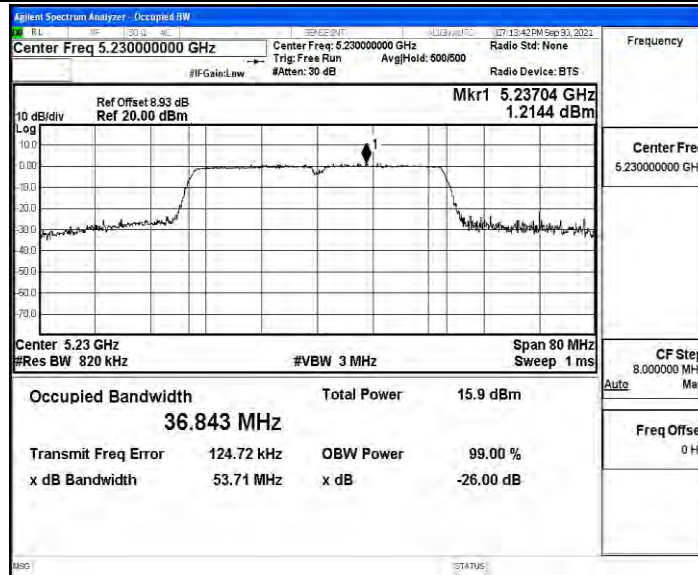




11N40SISO\_Ant1\_5190



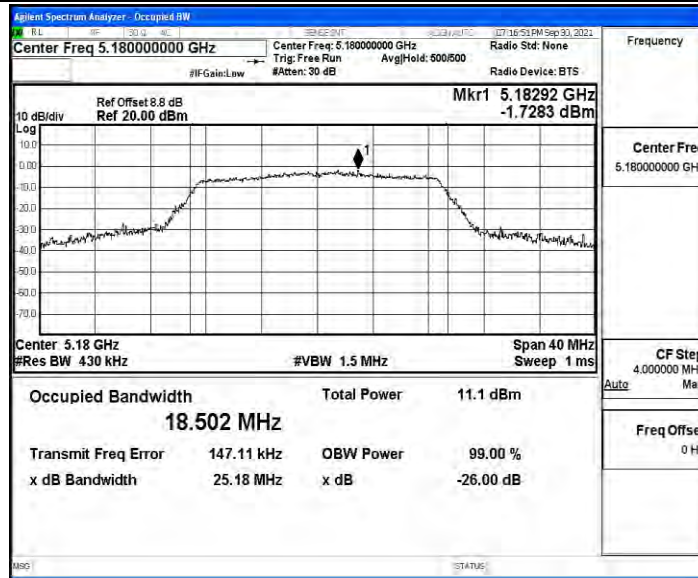
11N40SISO\_Ant1\_5230



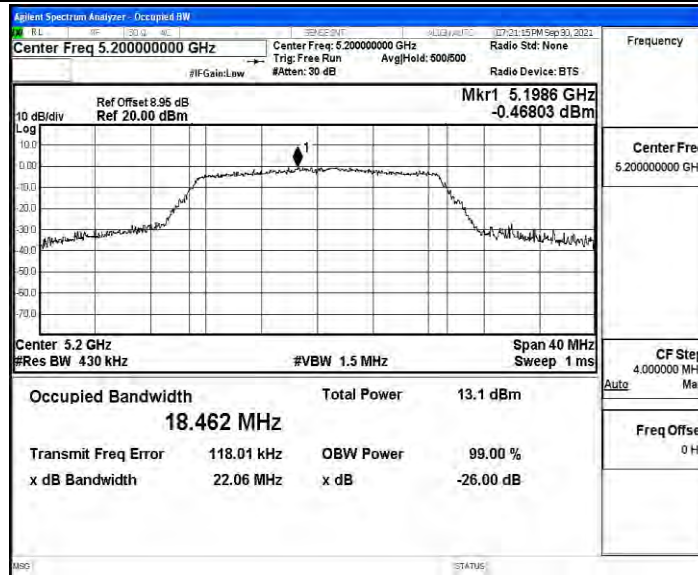




11AC20SISO\_Ant1\_5180

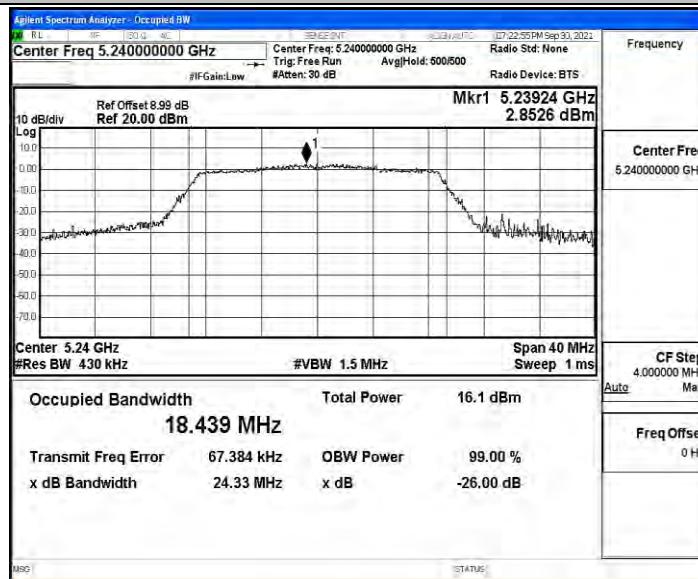


11AC20SISO\_Ant1\_5200

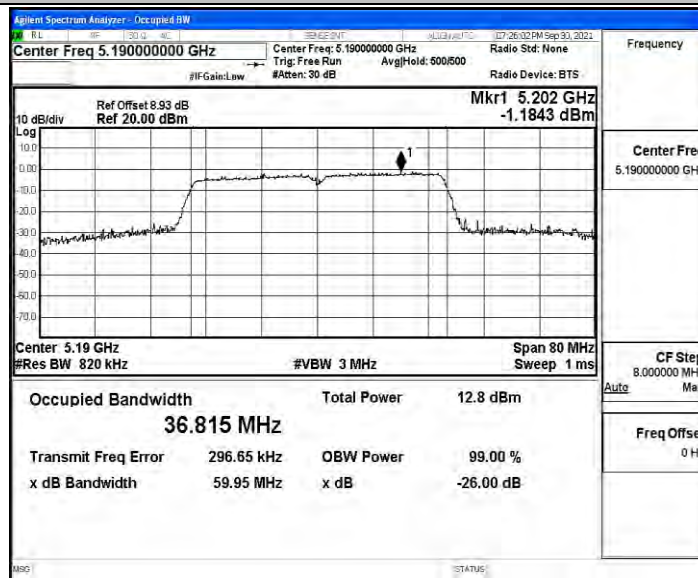




### 11AC20SISO\_Ant1\_5240

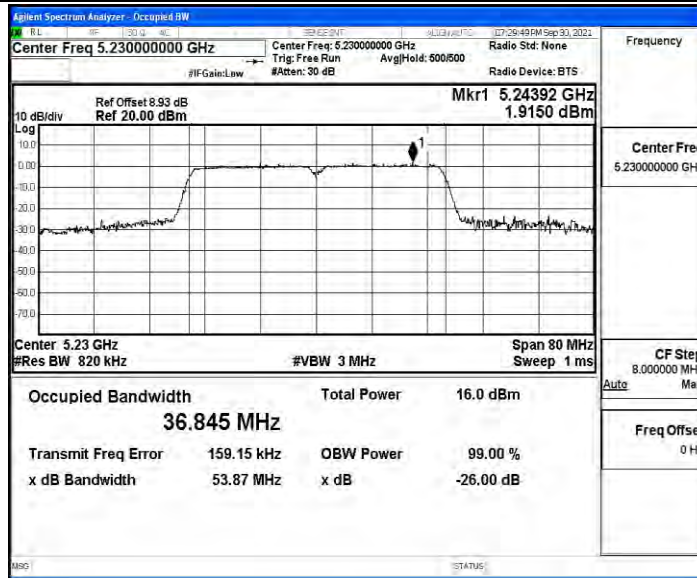


### 11AC40SISO\_Ant1\_5190

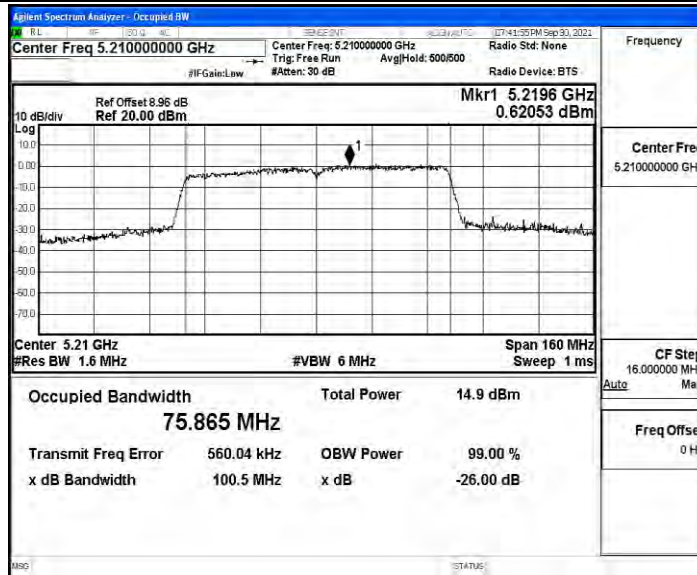




11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



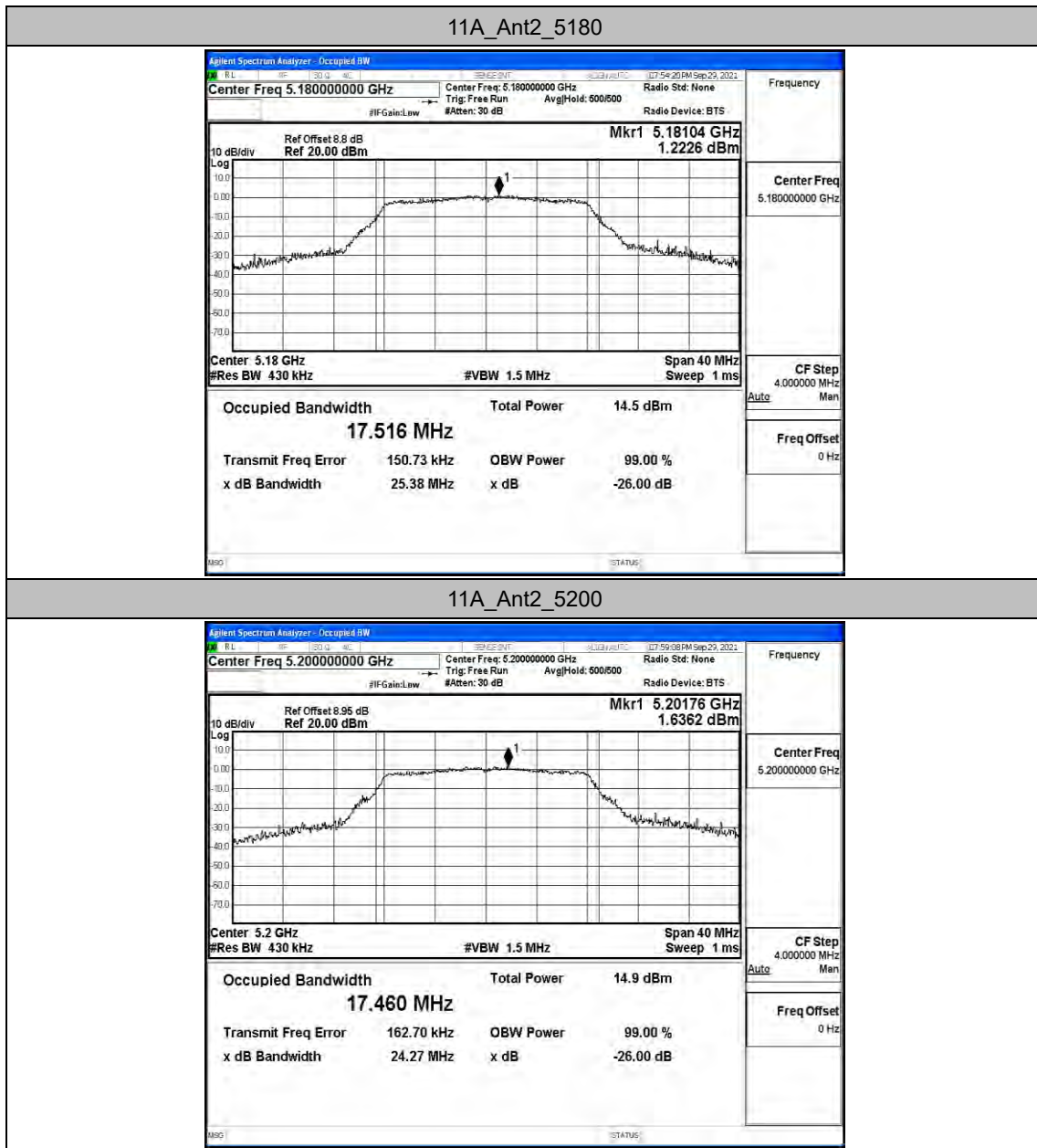


**ANT 2**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.516	5171.393	5188.909	---	PASS
		5200	17.460	5191.433	5208.893	---	PASS
		5240	17.530	5231.397	5248.927	---	PASS
11N20SISO	Ant2	5180	18.527	5170.888	5189.415	---	PASS
		5200	18.543	5190.900	5209.443	---	PASS
		5240	18.407	5230.897	5249.304	---	PASS
11N40SISO	Ant2	5190	36.868	5171.793	5208.661	---	PASS
		5230	36.788	5211.777	5248.565	---	PASS
11AC20SISO	Ant2	5180	18.342	5170.892	5189.234	---	PASS
		5200	18.341	5190.972	5209.313	---	PASS
		5240	18.425	5230.885	5249.310	---	PASS
11AC40SISO	Ant2	5190	36.892	5171.761	5208.653	---	PASS
		5230	36.828	5211.746	5248.574	---	PASS
11AC80SISO	Ant2	5210	76.024	5172.316	5248.340	---	PASS

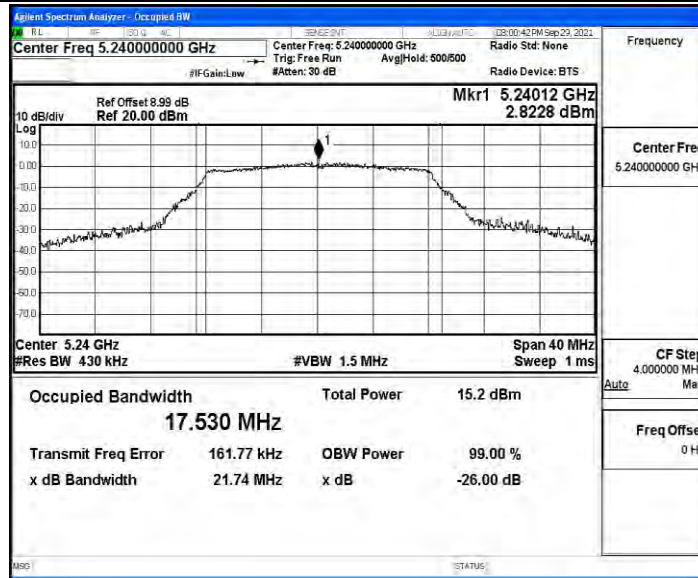


### Test Graphs

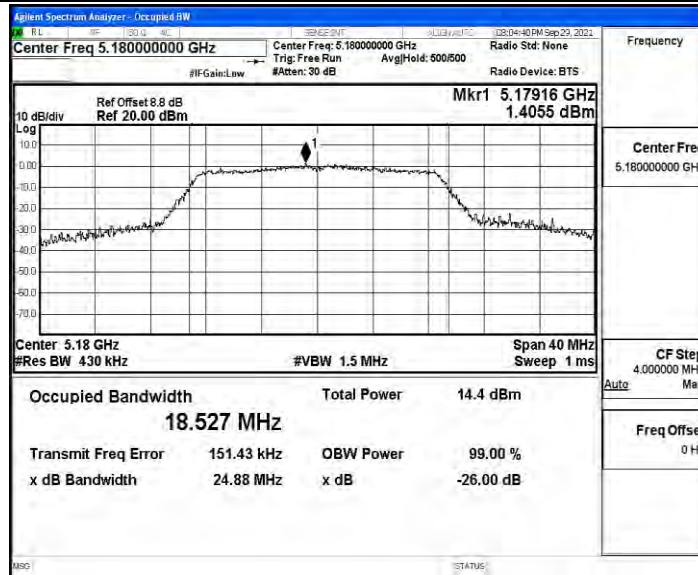




11A\_Ant2\_5240

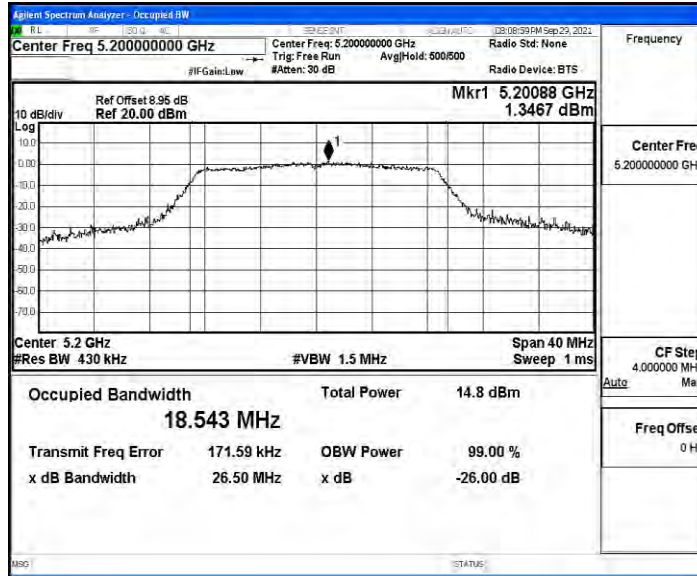


11N20SISO\_Ant2\_5180

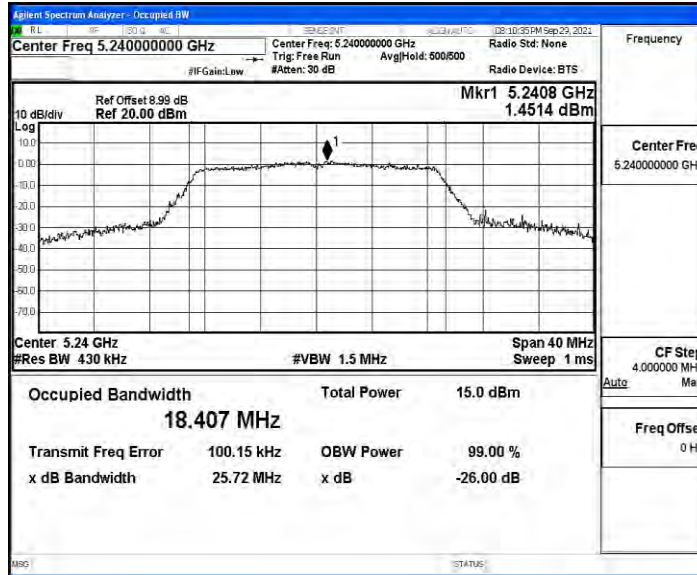




11N20SISO\_Ant2\_5200

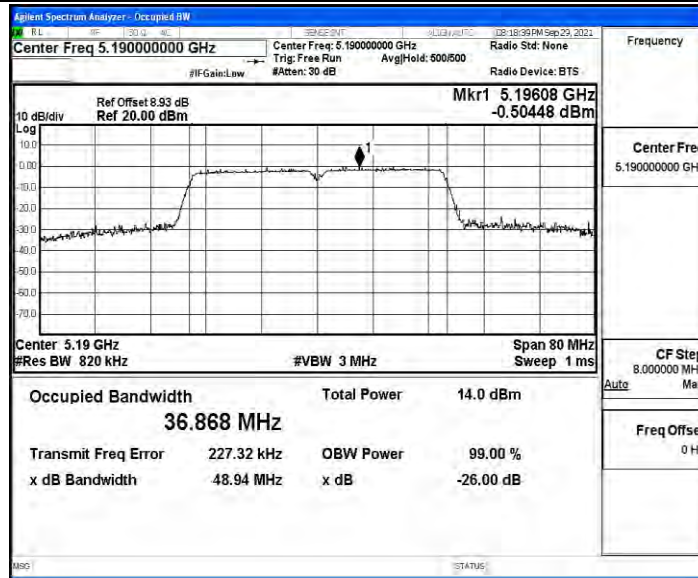


11N20SISO\_Ant2\_5240

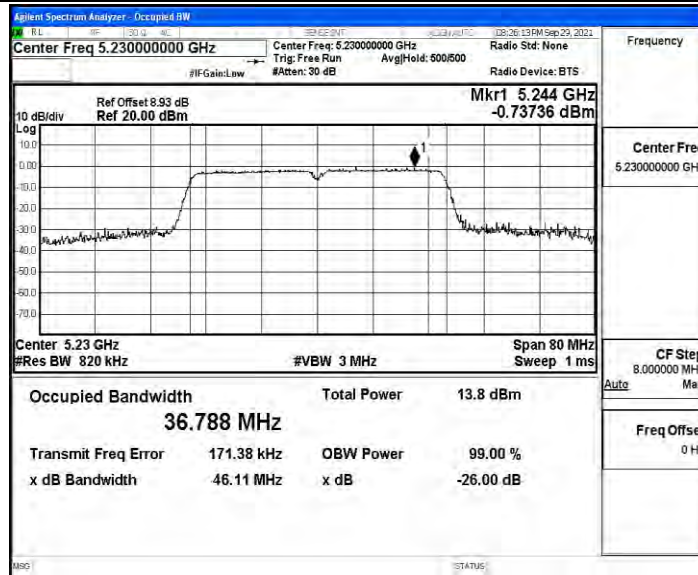




11N40SISO\_Ant2\_5190



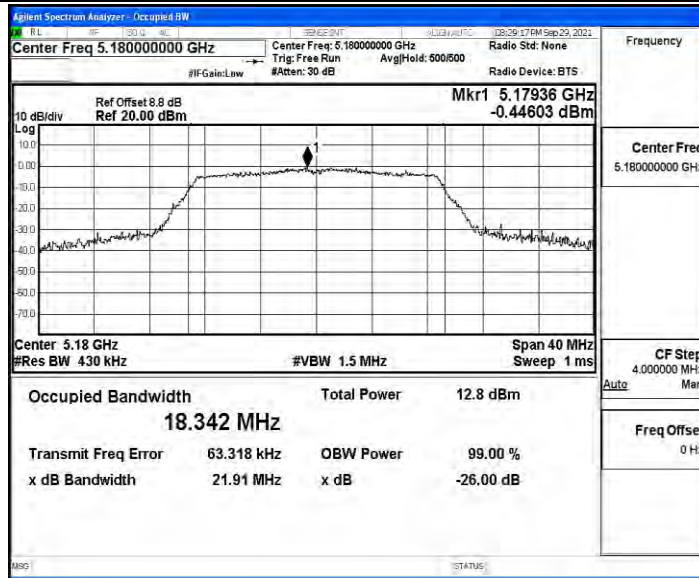
11N40SISO\_Ant2\_5230



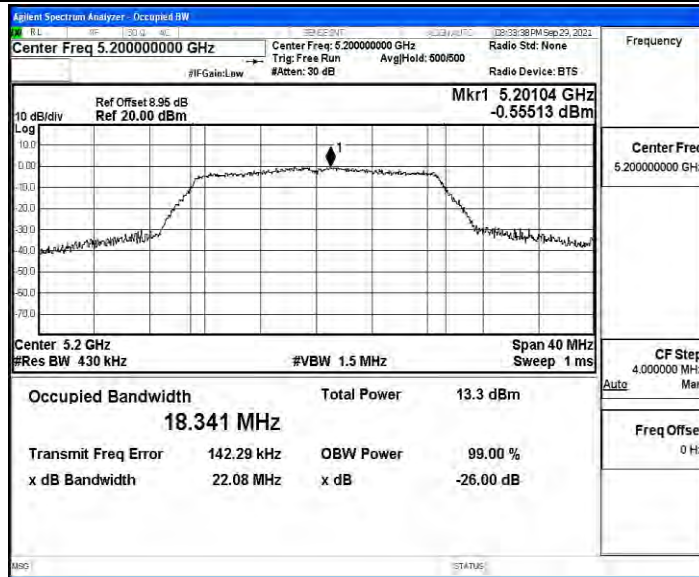




11AC20SISO\_Ant2\_5180

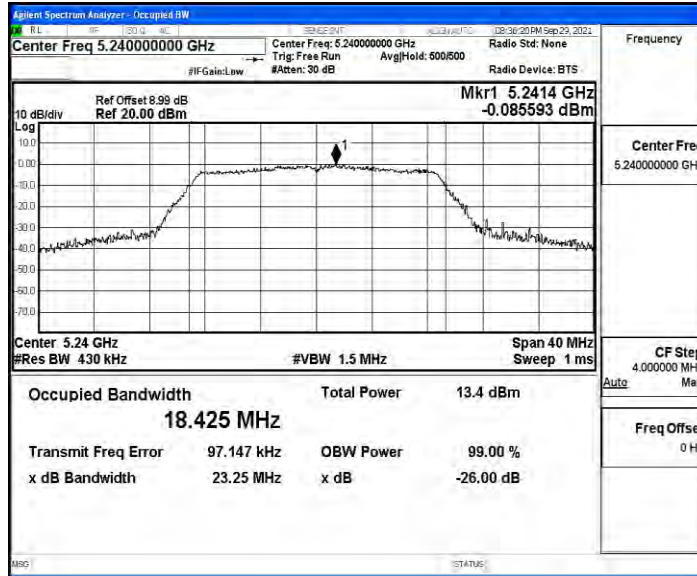


11AC20SISO\_Ant2\_5200

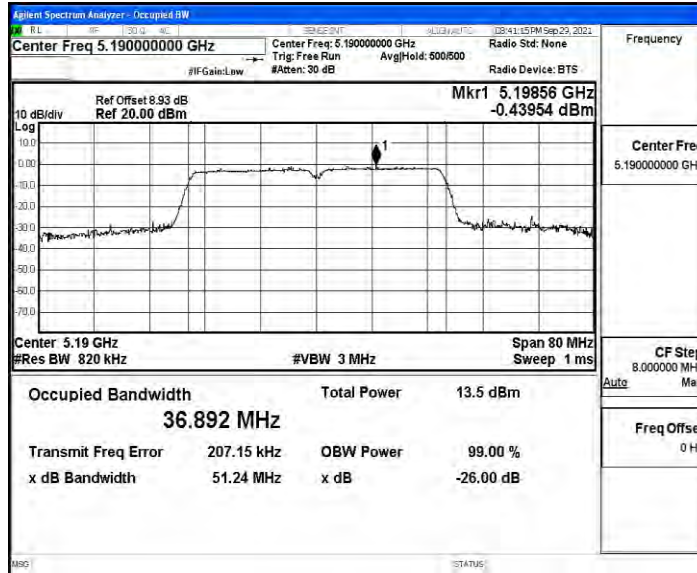




11AC20SISO\_Ant2\_5240

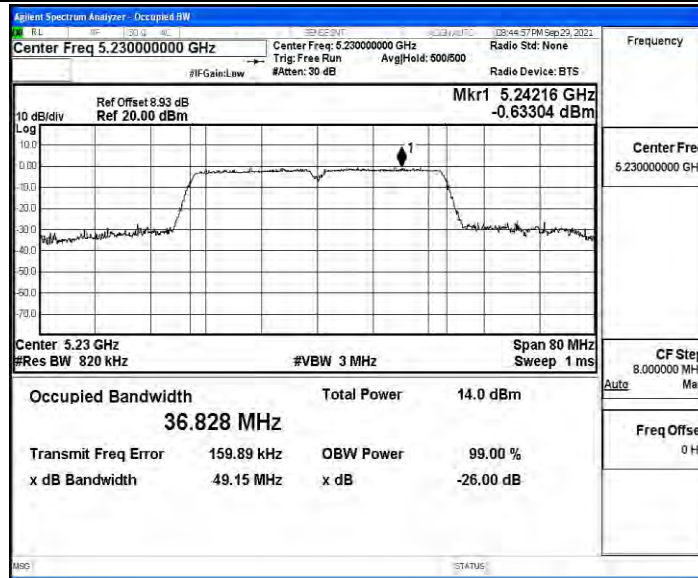


11AC40SISO\_Ant2\_5190

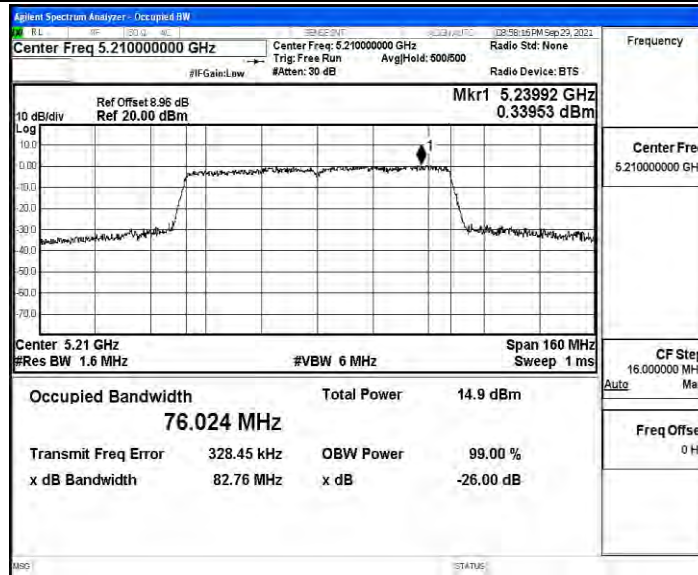




11AC40SISO\_Ant2\_5230



11AC80SISO\_Ant2\_5210





## Appendix D.5: Emissions in Restricted Bands

### Test Result

#### ANT 1

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-49.29	≤-41.20	45.91	≤54	PASS
				AV	4857.700	-47.24	≤-41.20	47.96	≤54	PASS
				AV	5150.000	-47.97	≤-41.20	47.23	≤54	PASS
				Peak	4500.000	-41.62	≤-21.20	53.58	≤68.2	PASS
				Peak	4784.900	-38.25	≤-21.20	56.95	≤68.2	PASS
				Peak	5150.000	-41.42	≤-21.20	53.78	≤68.2	PASS
		High	5240	AV	5350.000	-48.04	≤-41.20	47.16	≤54	PASS
				AV	5452.080	-47.7	≤-41.20	47.50	≤54	PASS
				AV	5460.000	-48.04	≤-41.20	47.16	≤54	PASS
				Peak	5350.000	-40.52	≤-21.20	54.68	≤68.2	PASS
				Peak	5395.680	-38.35	≤-21.20	56.85	≤68.2	PASS
				Peak	5460.000	-40.99	≤-21.20	54.21	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-49.23	≤-41.20	45.97	≤54	PASS
				AV	4915.100	-47.32	≤-41.20	47.88	≤54	PASS
				AV	5150.000	-47.74	≤-41.20	47.46	≤54	PASS
				Peak	4500.000	-43.22	≤-21.20	51.98	≤68.2	PASS
				Peak	4921.400	-37.24	≤-21.20	57.96	≤68.2	PASS
				Peak	5150.000	-39.48	≤-21.20	55.72	≤68.2	PASS
		High	5240	AV	5350.000	-47.96	≤-41.20	47.24	≤54	PASS
				AV	5437.440	-47.43	≤-41.20	47.77	≤54	PASS
				AV	5460.000	-47.89	≤-41.20	47.31	≤54	PASS
				Peak	5350.000	-39.24	≤-21.20	55.96	≤68.2	PASS
				Peak	5360.880	-37.27	≤-21.20	57.93	≤68.2	PASS
				Peak	5460.000	-41.29	≤-21.20	53.91	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-48.93	≤-41.20	46.27	≤54	PASS
				AV	4836.700	-46.87	≤-41.20	48.33	≤54	PASS
				AV	5150.000	-47.61	≤-41.20	47.59	≤54	PASS
				Peak	4500.000	-42.12	≤-21.20	53.08	≤68.2	PASS
				Peak	5043.900	-37.96	≤-21.20	57.24	≤68.2	PASS
				Peak	5150.000	-40.4	≤-21.20	54.80	≤68.2	PASS
		High	5230	AV	5350.000	-47.7	≤-41.20	47.50	≤54	PASS
				AV	5379.140	-47.38	≤-41.20	47.82	≤54	PASS
				AV	5460.000	-47.88	≤-41.20	47.32	≤54	PASS
				Peak	5350.000	-39.39	≤-21.20	55.81	≤68.2	PASS



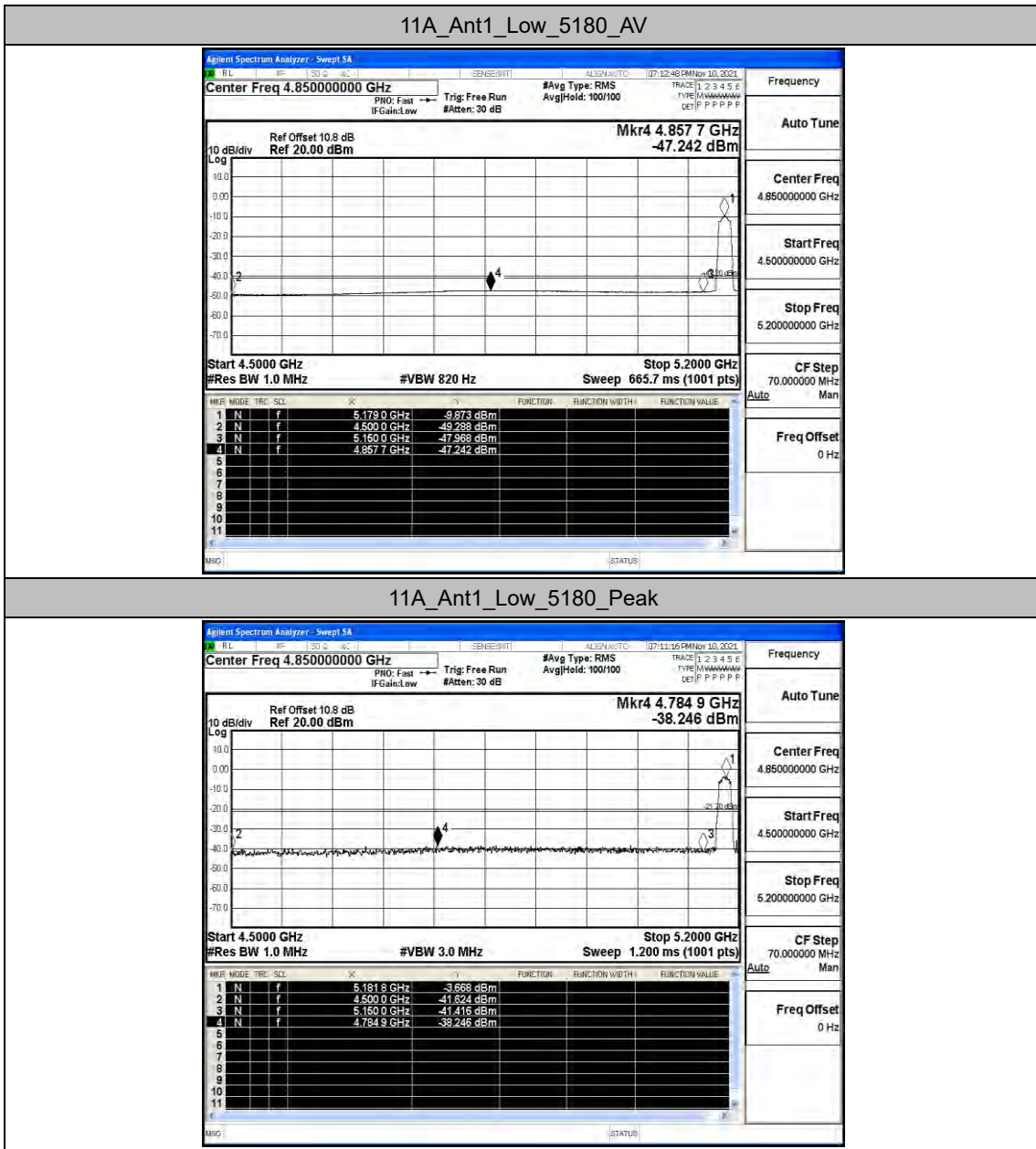
				Peak	5403.840	-38.42	≤-21.20	56.78	≤68.2	PASS
				Peak	5460.000	-41.62	≤-21.20	53.58	≤68.2	PASS
11AC20SISO	Ant1	Low	5180	AV	4500.000	-49.37	≤-41.20	45.83	≤54	PASS
				AV	4822.700	-47.26	≤-41.20	47.94	≤54	PASS
				AV	5150.000	-47.87	≤-41.20	47.33	≤54	PASS
				Peak	4500.000	-42.39	≤-21.20	52.81	≤68.2	PASS
				Peak	4785.600	-37.74	≤-21.20	57.46	≤68.2	PASS
				Peak	5150.000	-41.5	≤-21.20	53.70	≤68.2	PASS
	High	5240	AV	5350.000	-47.94	≤-41.20	47.26	≤54	PASS	
			AV	5377.680	-47.64	≤-41.20	47.56	≤54	PASS	
			AV	5460.000	-47.84	≤-41.20	47.36	≤54	PASS	
			Peak	5350.000	-41.55	≤-21.20	53.65	≤68.2	PASS	
			Peak	5413.440	-38.51	≤-21.20	56.69	≤68.2	PASS	
			Peak	5460.000	-40.5	≤-21.20	54.70	≤68.2	PASS	
11AC40SISO	Ant1	Low	5190	AV	4500.000	-49.04	≤-41.20	46.16	≤54	PASS
				AV	4845.800	-46.91	≤-41.20	48.29	≤54	PASS
				AV	5150.000	-47.53	≤-41.20	47.67	≤54	PASS
				Peak	4500.000	-41.87	≤-21.20	53.33	≤68.2	PASS
				Peak	4759.700	-37.38	≤-21.20	57.82	≤68.2	PASS
				Peak	5150.000	-41.72	≤-21.20	53.48	≤68.2	PASS
	High	5230	AV	5350.000	-47.87	≤-41.20	47.33	≤54	PASS	
			AV	5425.940	-47.32	≤-41.20	47.88	≤54	PASS	
			AV	5460.000	-47.86	≤-41.20	47.34	≤54	PASS	
			Peak	5350.000	-40.77	≤-21.20	54.43	≤68.2	PASS	
			Peak	5455.840	-38.26	≤-21.20	56.94	≤68.2	PASS	
			Peak	5460.000	-42.68	≤-21.20	52.52	≤68.2	PASS	
11AC80SISO	Ant1	Low	5210	AV	4500.000	-48.65	≤-41.20	46.55	≤54	PASS
				AV	4894.500	-46.25	≤-41.20	48.95	≤54	PASS
				AV	5150.000	-47.21	≤-41.20	47.99	≤54	PASS
				Peak	4500.000	-42.02	≤-21.20	53.18	≤68.2	PASS
				Peak	4897.500	-37.8	≤-21.20	57.40	≤68.2	PASS
				Peak	5150.000	-41.23	≤-21.20	53.97	≤68.2	PASS
	High	5210	AV	5350.000	-47.4	≤-41.20	47.80	≤54	PASS	
			AV	5362.280	-46.78	≤-41.20	48.42	≤54	PASS	
			AV	5460.000	-47.38	≤-41.20	47.82	≤54	PASS	
			Peak	5350.000	-40.51	≤-21.20	54.69	≤68.2	PASS	
			Peak	5360.040	-38.38	≤-21.20	56.82	≤68.2	PASS	
			Peak	5460.000	-41.58	≤-21.20	53.62	≤68.2	PASS	

Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

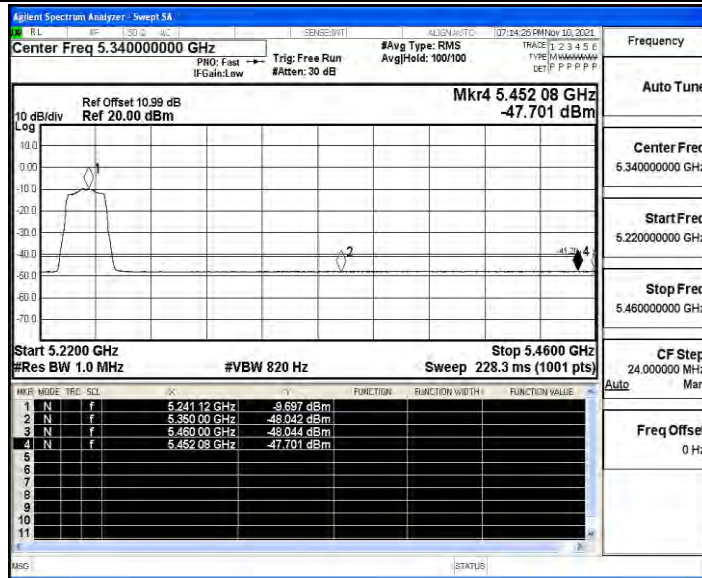


### Test Graphs

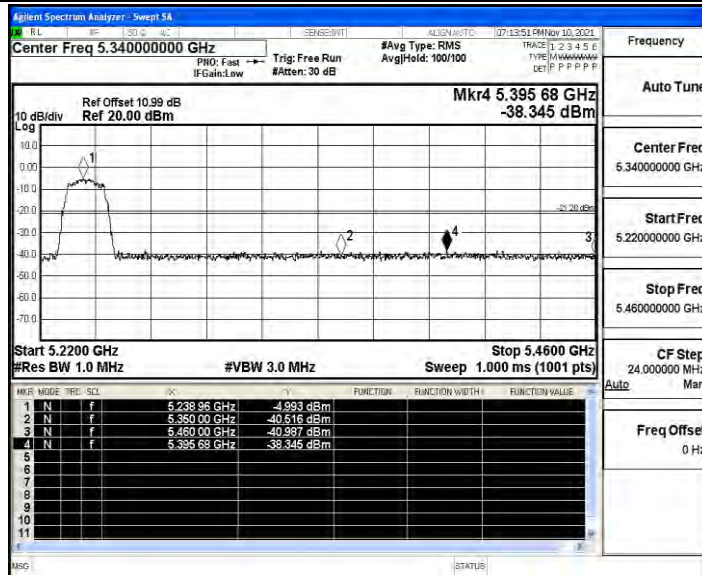




11A\_Ant1\_High\_5240\_AV

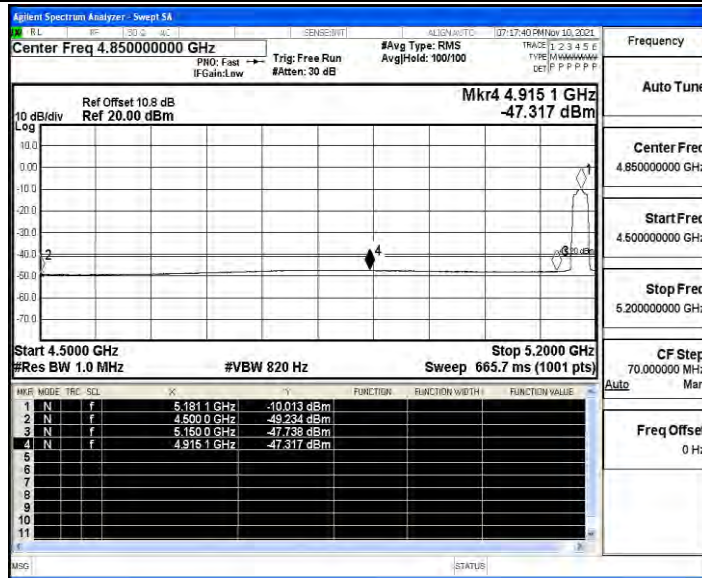


11A\_Ant1\_High\_5240\_Peak

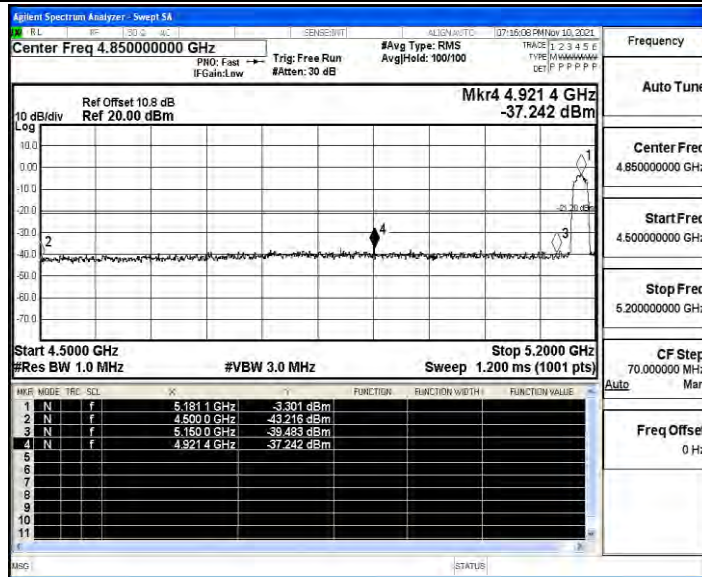




11N20SISO\_Ant1\_Low\_5180\_AV



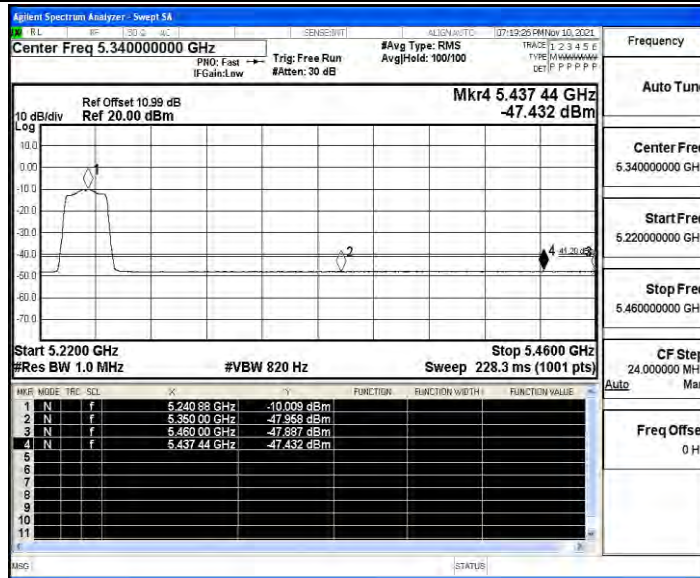
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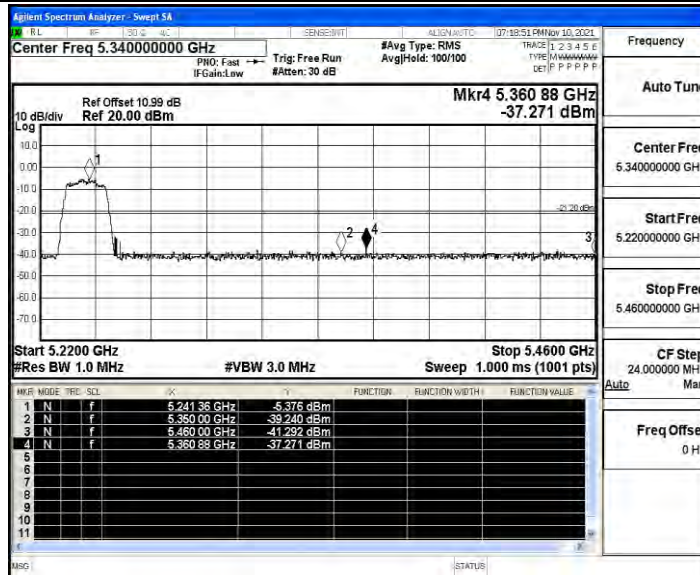




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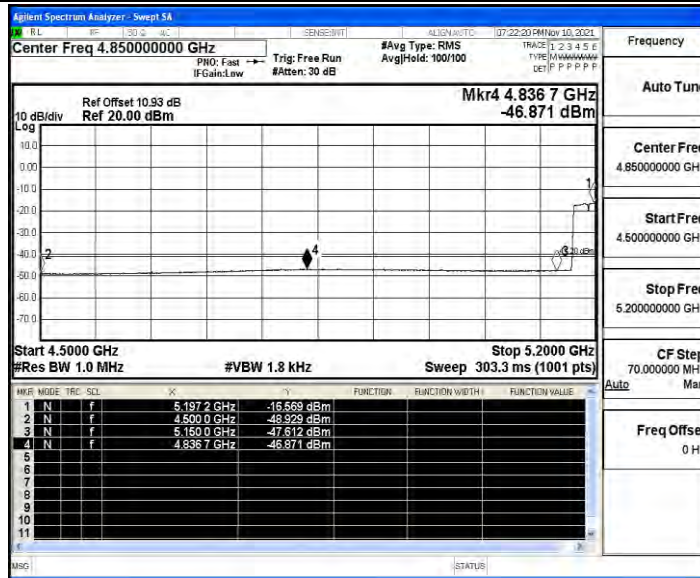


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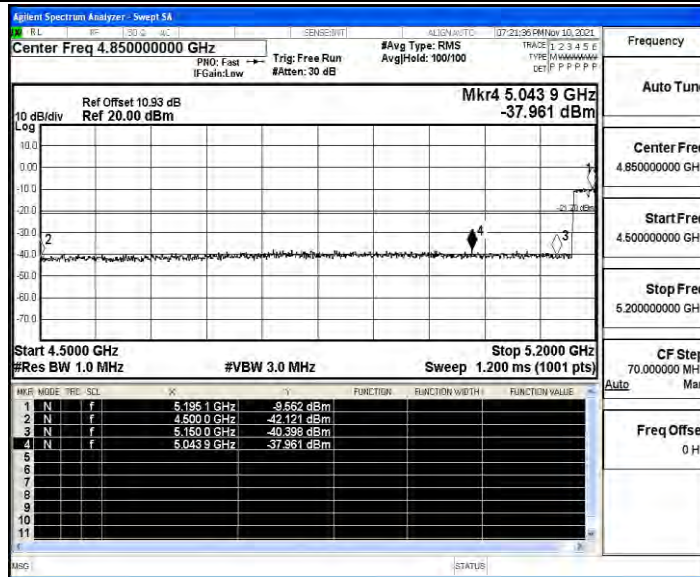




11N40SISO\_Ant1\_Low\_5190\_AV

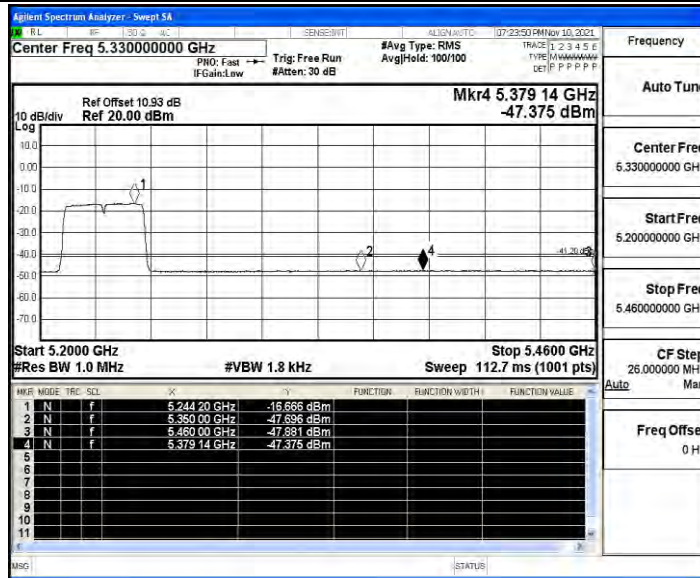


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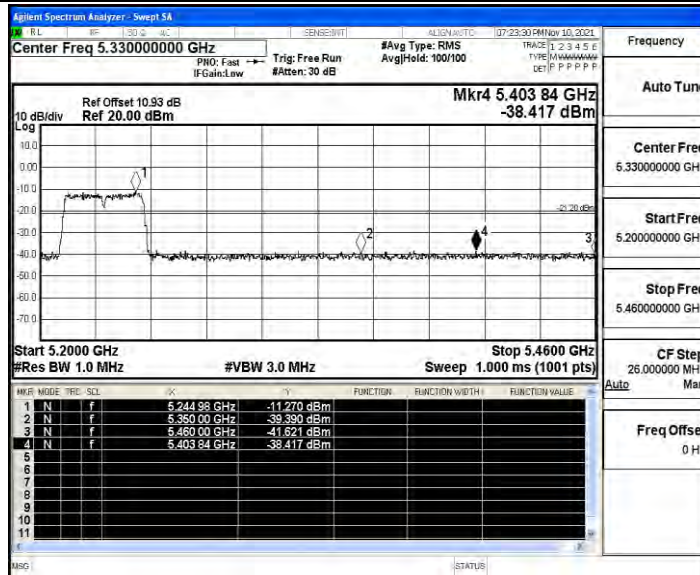




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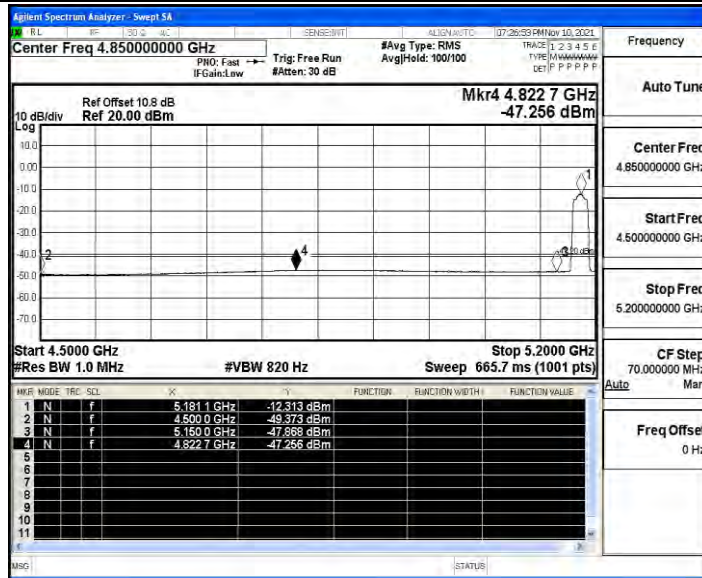


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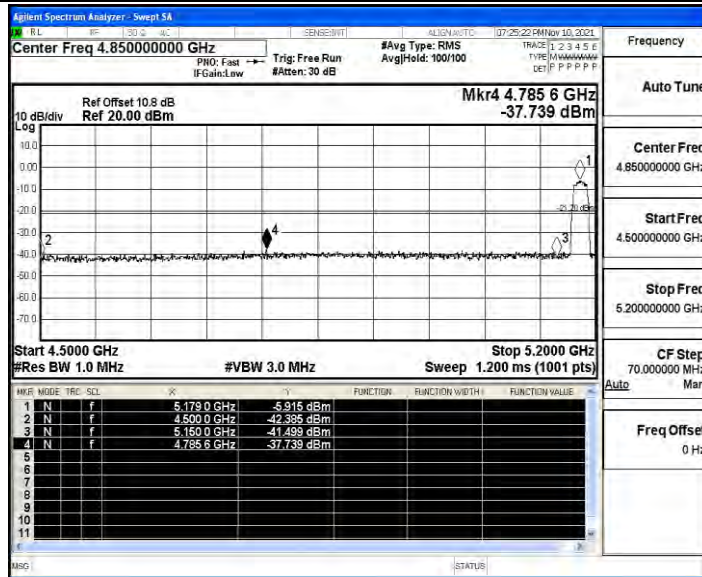




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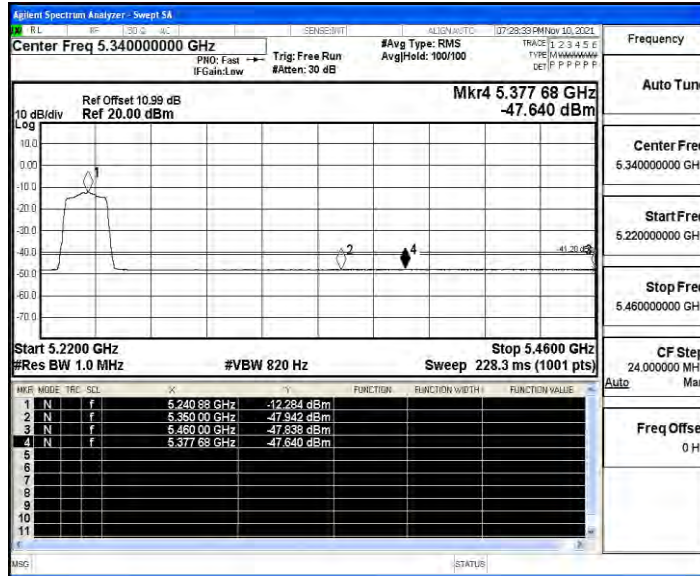


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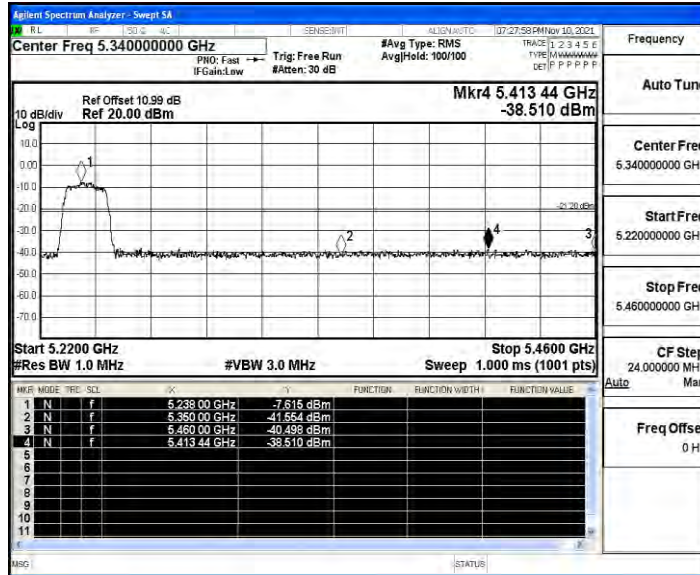




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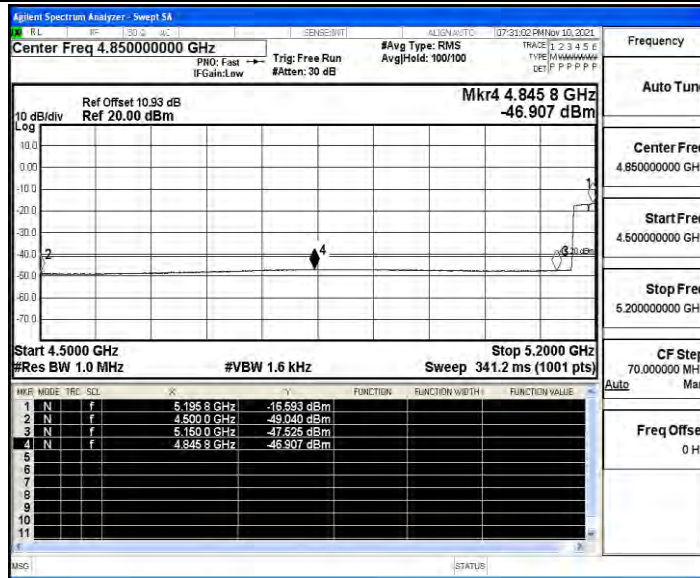


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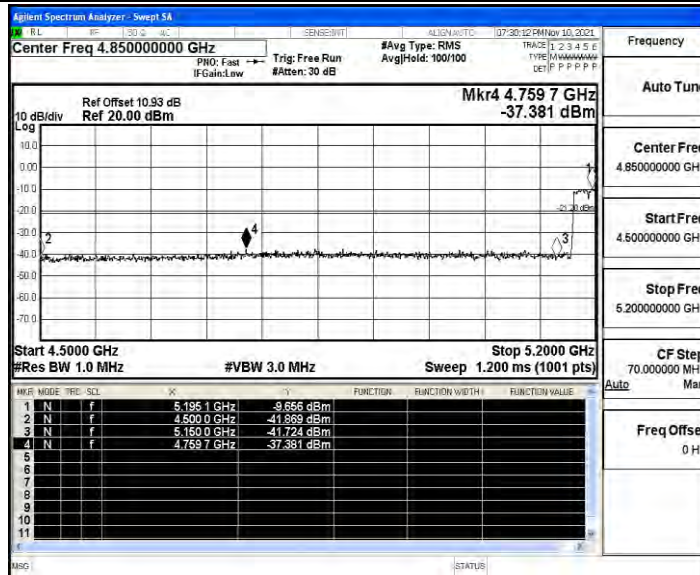




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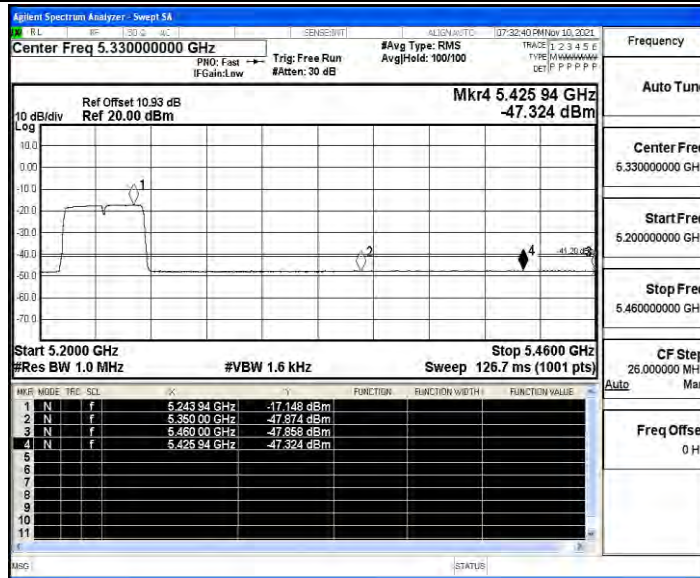


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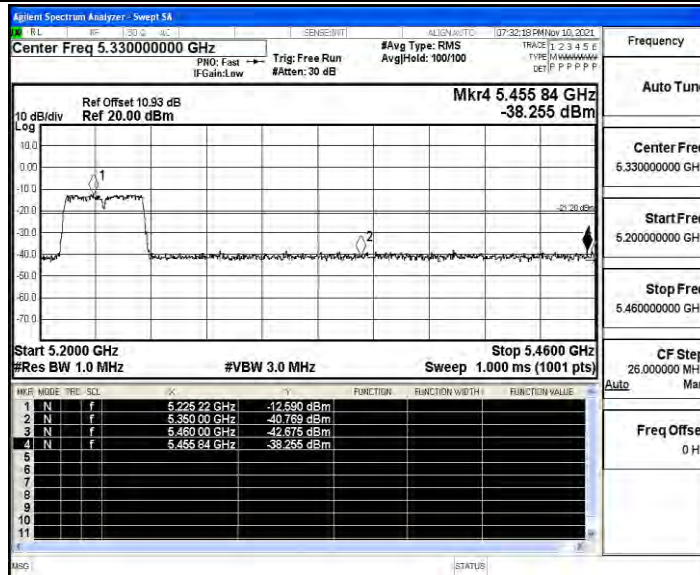




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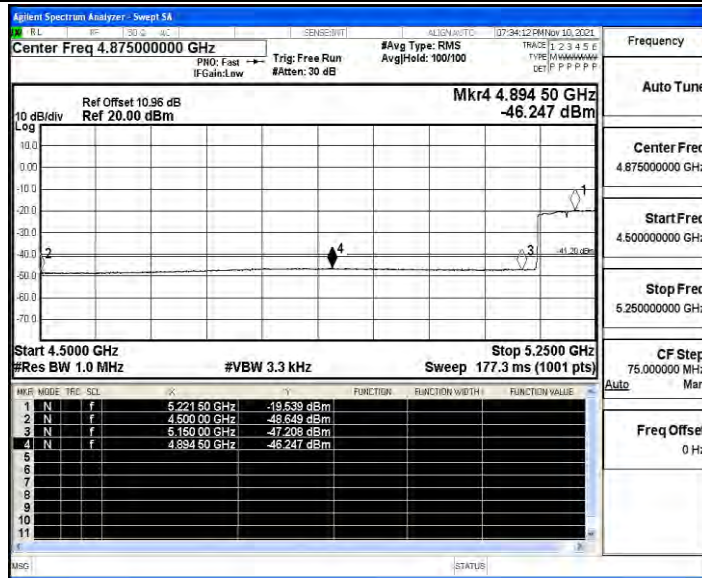


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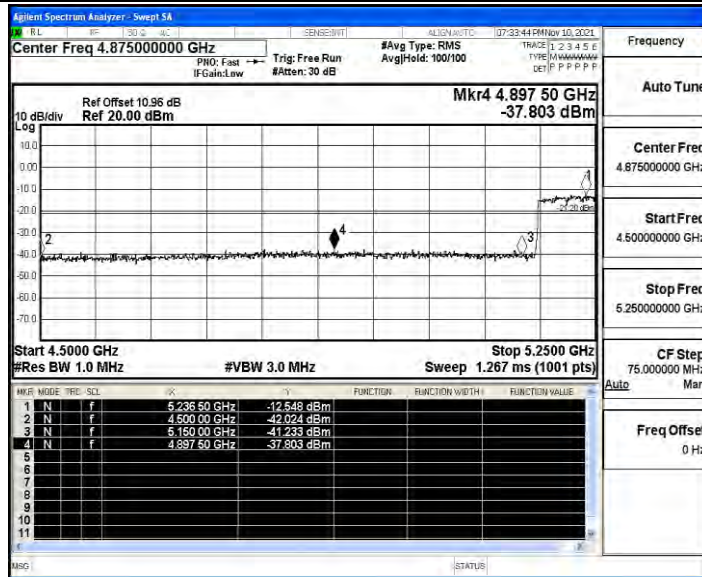




11AC80SISO\_Ant1\_Low\_5210\_AV



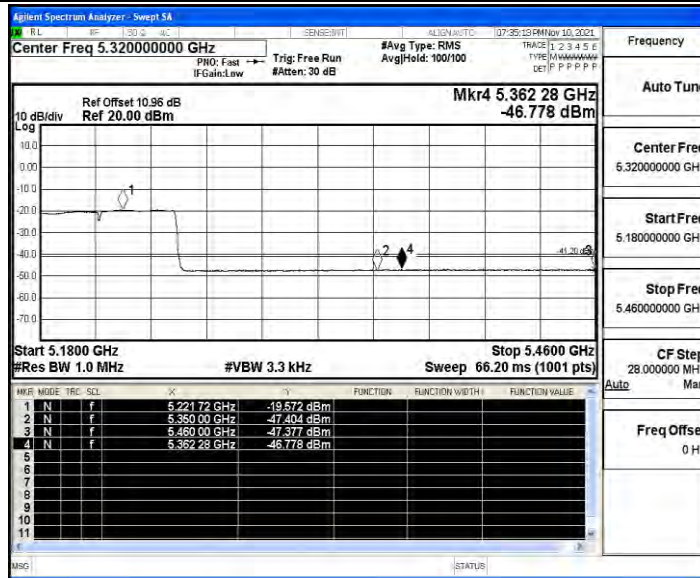
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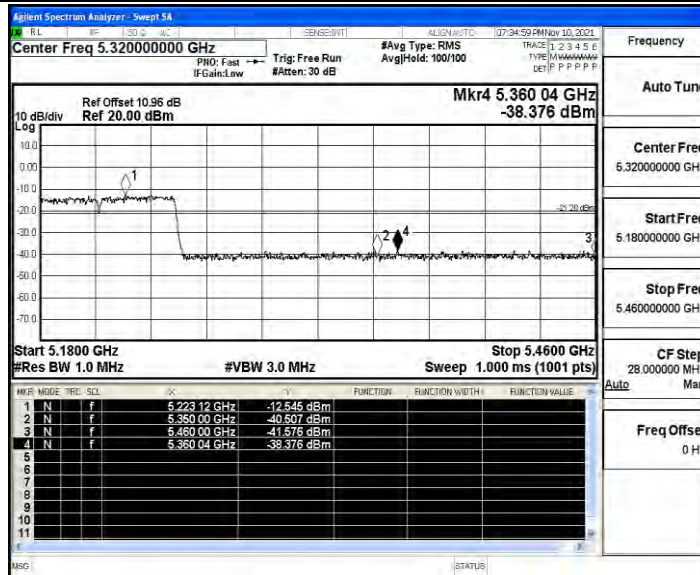




11AC80SISO\_Ant1\_High\_5210\_AV



11AC80SISO\_Ant1\_High\_5210\_Peak





**ANT 2**

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant2	Low	5180	AV	4500.000	-49.23	≤-41.20	45.97	≤54	PASS
				AV	4873.100	-47.24	≤-41.20	47.96	≤54	PASS
				AV	5150.000	-47.45	≤-41.20	47.75	≤54	PASS
				Peak	4500.000	-41.45	≤-21.20	53.75	≤68.2	PASS
				Peak	4844.400	-38.02	≤-21.20	57.18	≤68.2	PASS
				Peak	5150.000	-39.83	≤-21.20	55.37	≤68.2	PASS
		High	5240	AV	5350.000	-47.76	≤-41.20	47.44	≤54	PASS
				AV	5353.200	-47.6	≤-41.20	47.60	≤54	PASS
				AV	5460.000	-47.9	≤-41.20	47.30	≤54	PASS
				Peak	5350.000	-40.27	≤-21.20	54.93	≤68.2	PASS
				Peak	5416.320	-38.68	≤-21.20	56.52	≤68.2	PASS
				Peak	5460.000	-40.77	≤-21.20	54.43	≤68.2	PASS
11N20SISO	Ant2	Low	5180	AV	4500.000	-49.27	≤-41.20	45.93	≤54	PASS
				AV	4841.600	-47.24	≤-41.20	47.96	≤54	PASS
				AV	5150.000	-47.39	≤-41.20	47.81	≤54	PASS
				Peak	4500.000	-43.45	≤-21.20	51.75	≤68.2	PASS
				Peak	5140.500	-37.64	≤-21.20	57.56	≤68.2	PASS
				Peak	5150.000	-39.99	≤-21.20	55.21	≤68.2	PASS
		High	5240	AV	5350.000	-47.81	≤-41.20	47.39	≤54	PASS
				AV	5431.920	-47.64	≤-41.20	47.56	≤54	PASS
				AV	5460.000	-47.92	≤-41.20	47.28	≤54	PASS
				Peak	5350.000	-41.74	≤-21.20	53.46	≤68.2	PASS
				Peak	5359.440	-38.04	≤-21.20	57.16	≤68.2	PASS
				Peak	5460.000	-40.94	≤-21.20	54.26	≤68.2	PASS
11N40SISO	Ant2	Low	5190	AV	4500.000	-49.01	≤-41.20	46.19	≤54	PASS
				AV	4844.400	-46.8	≤-41.20	48.40	≤54	PASS
				AV	5150.000	-47.16	≤-41.20	48.04	≤54	PASS
				Peak	4500.000	-41.33	≤-21.20	53.87	≤68.2	PASS
				Peak	4919.300	-37.45	≤-21.20	57.75	≤68.2	PASS
				Peak	5150.000	-41.48	≤-21.20	53.72	≤68.2	PASS
		High	5230	AV	5350.000	-47.76	≤-41.20	47.44	≤54	PASS
				AV	5441.280	-47.22	≤-41.20	47.98	≤54	PASS
				AV	5460.000	-47.73	≤-41.20	47.47	≤54	PASS
				Peak	5350.000	-40.92	≤-21.20	54.28	≤68.2	PASS
				Peak	5358.080	-38.42	≤-21.20	56.78	≤68.2	PASS
				Peak	5460.000	-41.19	≤-21.20	54.01	≤68.2	PASS
11AC20SISO	Ant2	Low	5180	AV	4500.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	4843.000	-47.28	≤-41.20	47.92	≤54	PASS
				AV	5150.000	-47.86	≤-41.20	47.34	≤54	PASS



				Peak	4500.000	-42.27	≤-21.20	52.93	≤68.2	PASS
				Peak	4955.700	-37.47	≤-21.20	57.73	≤68.2	PASS
				Peak	5150.000	-41.38	≤-21.20	53.82	≤68.2	PASS
		High	5240	AV	5350.000	-47.89	≤-41.20	47.31	≤54	PASS
				AV	5438.400	-47.56	≤-41.20	47.64	≤54	PASS
				AV	5460.000	-47.94	≤-41.20	47.26	≤54	PASS
				Peak	5350.000	-39.52	≤-21.20	55.68	≤68.2	PASS
				Peak	5360.640	-37.97	≤-21.20	57.23	≤68.2	PASS
				Peak	5460.000	-39.94	≤-21.20	55.26	≤68.2	PASS
11AC40SISO	Ant2	Low	5190	AV	4500.000	-49.03	≤-41.20	46.17	≤54	PASS
				AV	4929.100	-46.8	≤-41.20	48.40	≤54	PASS
				AV	5150.000	-47.36	≤-41.20	47.84	≤54	PASS
				Peak	4500.000	-40.73	≤-21.20	54.47	≤68.2	PASS
				Peak	4895.500	-37.38	≤-21.20	57.82	≤68.2	PASS
				Peak	5150.000	-41.02	≤-21.20	54.18	≤68.2	PASS
		High	5230	AV	5350.000	-47.48	≤-41.20	47.72	≤54	PASS
				AV	5374.720	-47.26	≤-41.20	47.94	≤54	PASS
				AV	5460.000	-47.79	≤-41.20	47.41	≤54	PASS
				Peak	5350.000	-40.61	≤-21.20	54.59	≤68.2	PASS
				Peak	5457.140	-38.23	≤-21.20	56.97	≤68.2	PASS
				Peak	5460.000	-41.8	≤-21.20	53.40	≤68.2	PASS
11AC80SISO	Ant2	Low	5210	AV	4500.000	-48.56	≤-41.20	46.64	≤54	PASS
				AV	4830.000	-46.2	≤-41.20	49.00	≤54	PASS
				AV	5150.000	-46.83	≤-41.20	48.37	≤54	PASS
				Peak	4500.000	-41.76	≤-21.20	53.44	≤68.2	PASS
				Peak	5044.500	-37.79	≤-21.20	57.41	≤68.2	PASS
				Peak	5150.000	-39.06	≤-21.20	56.14	≤68.2	PASS
		High	5210	AV	5350.000	-47.36	≤-41.20	47.84	≤54	PASS
				AV	5435.640	-46.73	≤-41.20	48.47	≤54	PASS
				AV	5460.000	-47.49	≤-41.20	47.71	≤54	PASS
				Peak	5350.000	-40.77	≤-21.20	54.43	≤68.2	PASS
				Peak	5382.160	-38.13	≤-21.20	57.07	≤68.2	PASS
				Peak	5460.000	-40.44	≤-21.20	54.76	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



**MIMO**

Test Mode	Channel	Detector	Frequency (MHz)	Result [dBm]			Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
				Ant1	Ant2	Sum				
11N20 SISO	5180	AV	4500.000	-49.23	-49.27	-46.24	≤-41.20	48.99	≤54	Pass
		AV	5149.600	-47.32	-47.24	-44.27	≤-41.20	50.96	≤54	Pass
		AV	5150.000	-47.74	-47.39	-44.55	≤-41.20	50.68	≤54	Pass
		Peak	4500.000	-43.22	-43.45	-40.32	≤-27.00	54.91	≤68.2	Pass
		Peak	4780.700	-37.24	-37.64	-34.43	≤-27.00	60.80	≤68.2	Pass
		Peak	5150.000	-39.48	-39.99	-36.72	≤-27.00	58.51	≤68.2	Pass
	5240	AV	5350.000	-47.96	-47.81	-44.87	≤-41.20	50.36	≤54	Pass
		AV	5403.360	-47.43	-47.64	-44.52	≤-41.20	50.71	≤54	Pass
		AV	5460.000	-47.89	-47.92	-44.89	≤-41.20	50.34	≤54	Pass
		Peak	5350.000	-39.24	-41.74	-37.30	≤-27.00	57.93	≤68.2	Pass
		Peak	5449.680	-37.27	-38.04	-34.63	≤-27.00	60.60	≤68.2	Pass
		Peak	5460.000	-41.29	-40.94	-38.10	≤-27.00	57.13	≤68.2	Pass
11N40 SISO	5190	AV	4500.000	-48.93	-49.01	-45.96	≤-41.20	49.27	≤54	Pass
		AV	5148.900	-46.87	-46.8	-43.82	≤-41.20	51.41	≤54	Pass
		AV	5150.000	-47.61	-47.16	-44.37	≤-41.20	50.86	≤54	Pass
		Peak	4500.000	-42.12	-41.33	-38.70	≤-27.00	56.53	≤68.2	Pass
		Peak	5144.000	-37.96	-37.45	-34.69	≤-27.00	60.54	≤68.2	Pass
		Peak	5150.000	-40.4	-41.48	-37.90	≤-27.00	57.33	≤68.2	Pass
	5230	AV	5350.000	-47.7	-47.76	-44.72	≤-41.20	50.51	≤54	Pass
		AV	5413.460	-47.38	-47.22	-44.29	≤-41.20	50.94	≤54	Pass
		AV	5460.000	-47.88	-47.73	-44.79	≤-41.20	50.44	≤54	Pass
		Peak	5350.000	-39.39	-40.92	-37.08	≤-27.00	58.15	≤68.2	Pass
		Peak	5441.280	-38.42	-38.42	-35.41	≤-27.00	59.82	≤68.2	Pass
		Peak	5460.000	-41.62	-41.19	-38.39	≤-27.00	56.84	≤68.2	Pass
11AC20 SISO	5180	AV	4500.000	-49.37	-49.44	-46.39	≤-41.20	48.84	≤54	Pass
		AV	4845.800	-47.26	-47.28	-44.26	≤-41.20	50.97	≤54	Pass
		AV	5150.000	-47.87	-47.86	-44.85	≤-41.20	50.38	≤54	Pass
		Peak	4500.000	-42.39	-42.27	-39.32	≤-27.00	55.91	≤68.2	Pass
		Peak	4782.100	-37.74	-37.47	-34.59	≤-27.00	60.64	≤68.2	Pass
		Peak	5150.000	-41.5	-41.38	-38.43	≤-27.00	56.80	≤68.2	Pass
	5240	AV	5350.000	-47.94	-47.89	-44.90	≤-41.20	50.33	≤54	Pass
		AV	5380.320	-47.64	-47.56	-44.59	≤-41.20	50.64	≤54	Pass
		AV	5460.000	-47.84	-47.94	-44.88	≤-41.20	50.35	≤54	Pass

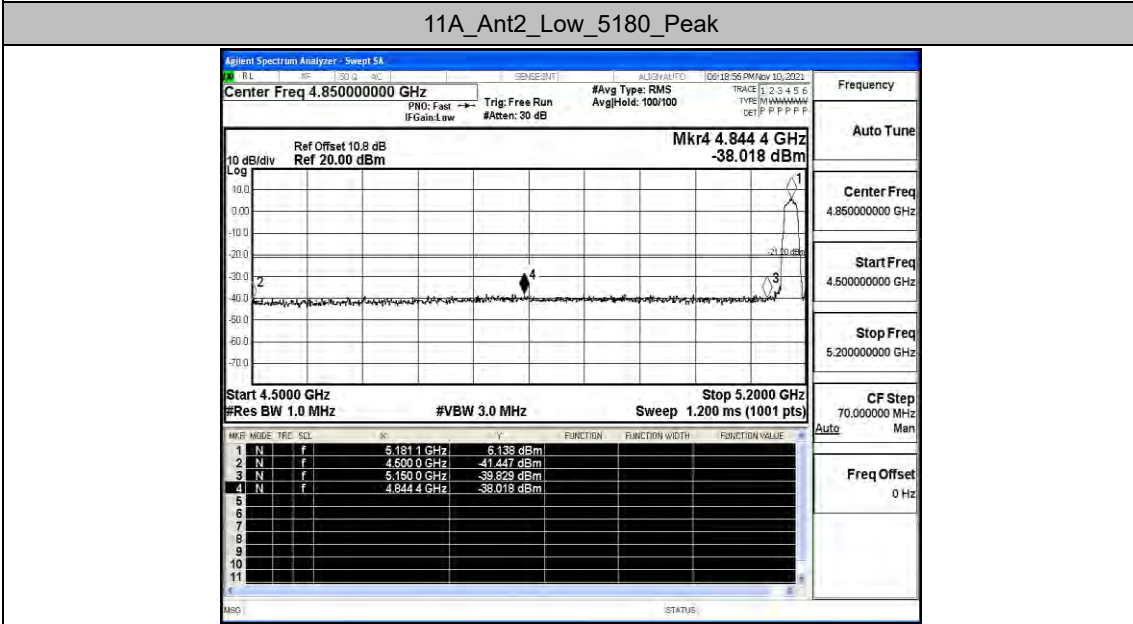
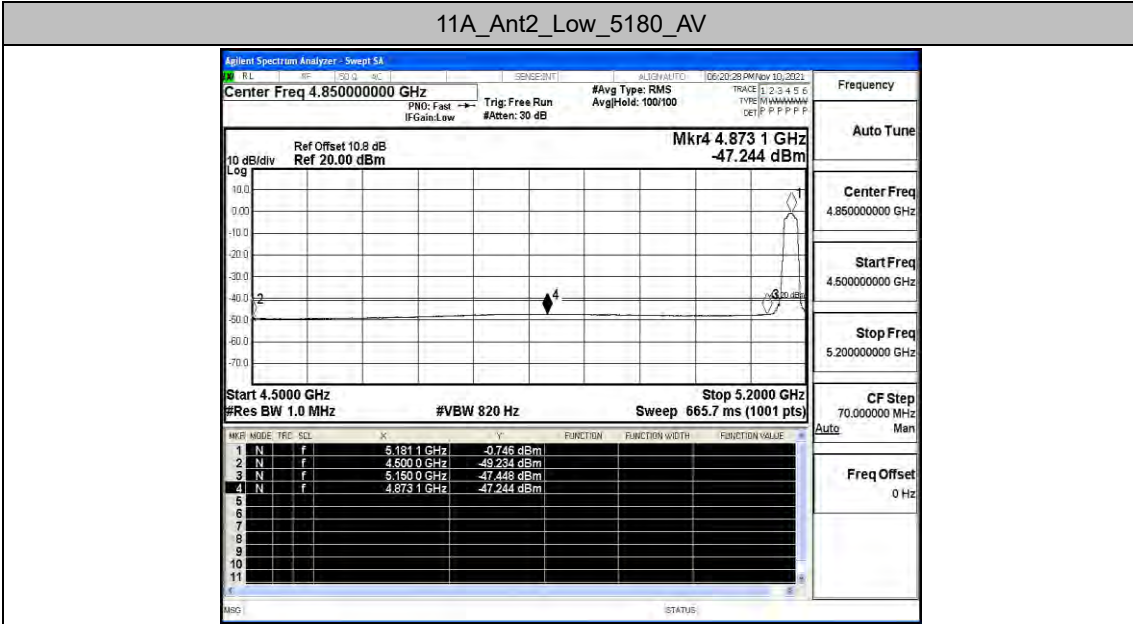


		Peak	5350.000	-41.55	-39.52	-37.41	≤-27.00	57.82	≤68.2	Pass
		Peak	5367.120	-38.51	-37.97	-35.22	≤-27.00	60.01	≤68.2	Pass
		Peak	5460.000	-40.5	-39.94	-37.20	≤-27.00	58.03	≤68.2	Pass
11AC40 SISO	5190	AV	4500.000	-49.04	-49.03	-46.02	≤-41.20	49.21	≤54	Pass
		AV	5149.600	-46.91	-46.8	-43.84	≤-41.20	51.39	≤54	Pass
		AV	5150.000	-47.53	-47.36	-44.43	≤-41.20	50.80	≤54	Pass
		Peak	4500.000	-41.87	-40.73	-38.25	≤-27.00	56.98	≤68.2	Pass
		Peak	5148.200	-37.38	-37.38	-34.37	≤-27.00	60.86	≤68.2	Pass
		Peak	5150.000	-41.72	-41.02	-38.35	≤-27.00	56.88	≤68.2	Pass
	5230	AV	5350.000	-47.87	-47.48	-44.66	≤-41.20	50.57	≤54	Pass
		AV	5363.540	-47.32	-47.26	-44.28	≤-41.20	50.95	≤54	Pass
		AV	5460.000	-47.86	-47.79	-44.81	≤-41.20	50.42	≤54	Pass
		Peak	5350.000	-40.77	-40.61	-37.68	≤-27.00	57.55	≤68.2	Pass
		Peak	5455.580	-38.26	-38.23	-35.23	≤-27.00	60.00	≤68.2	Pass
		Peak	5460.000	-42.68	-41.8	-39.21	≤-27.00	56.02	≤68.2	Pass
11AC80 SISO	5210	AV	4500.000	-48.65	-48.56	-45.59	≤-41.20	49.64	≤54	Pass
		AV	5149.500	-46.25	-46.2	-43.21	≤-41.20	52.02	≤54	Pass
		AV	5150.000	-47.21	-46.83	-44.01	≤-41.20	51.22	≤54	Pass
		Peak	4500.000	-42.02	-41.76	-38.88	≤-27.00	56.35	≤68.2	Pass
		Peak	5139.750	-37.8	-37.79	-34.78	≤-27.00	60.45	≤68.2	Pass
		Peak	5150.000	-41.23	-39.06	-37.00	≤-27.00	58.23	≤68.2	Pass
		AV	5350.000	-47.4	-47.36	-44.37	≤-41.20	50.86	≤54	Pass
		AV	5391.120	-46.78	-46.73	-43.74	≤-41.20	51.49	≤54	Pass
		AV	5460.000	-47.38	-47.49	-44.42	≤-41.20	50.81	≤54	Pass
		Peak	5350.000	-40.51	-40.77	-37.63	≤-27.00	57.60	≤68.2	Pass
		Peak	5397.560	-38.38	-38.13	-35.24	≤-27.00	59.99	≤68.2	Pass
		Peak	5460.000	-41.58	-40.44	-37.96	≤-27.00	57.27	≤68.2	Pass



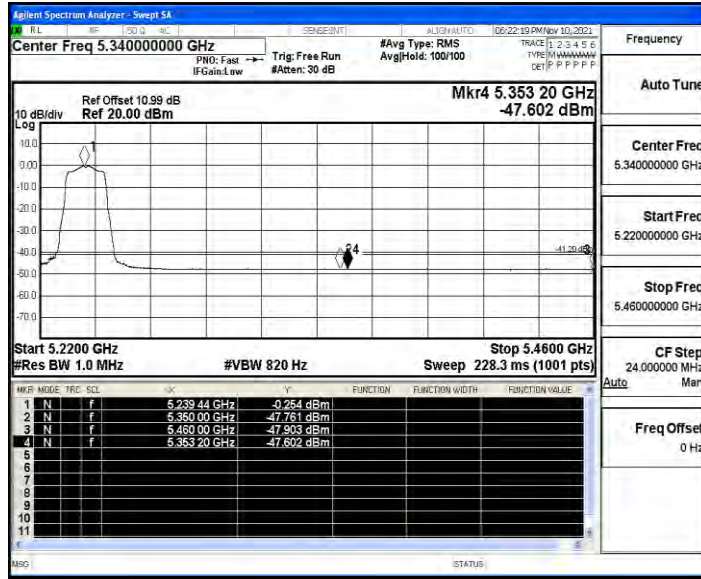
ANT2

### Test Graphs

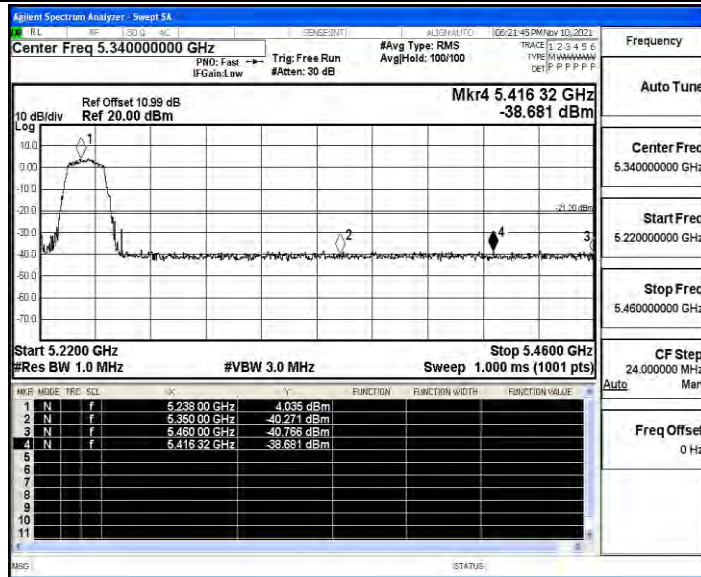




11A\_Ant2\_High\_5240\_AV

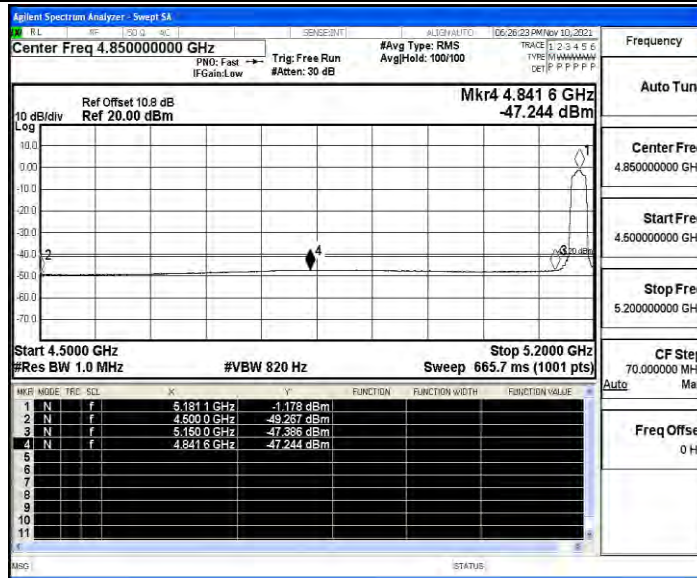


11A\_Ant2\_High\_5240\_Peak

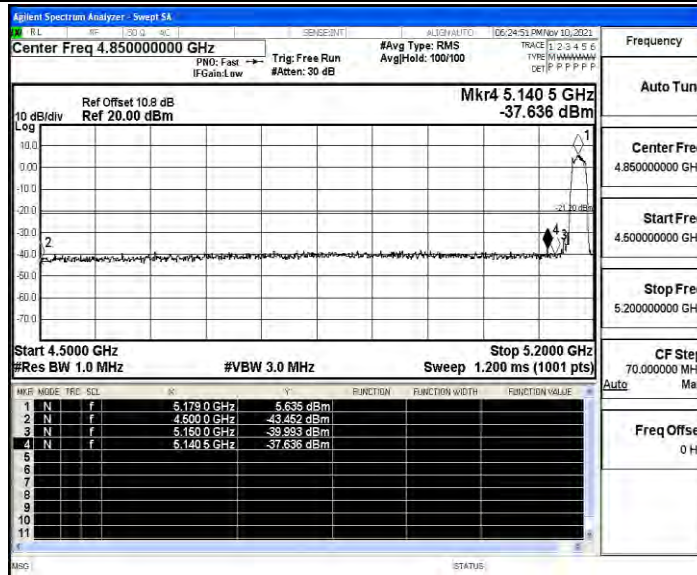




11N20SISO\_Ant2\_Low\_5180\_AV



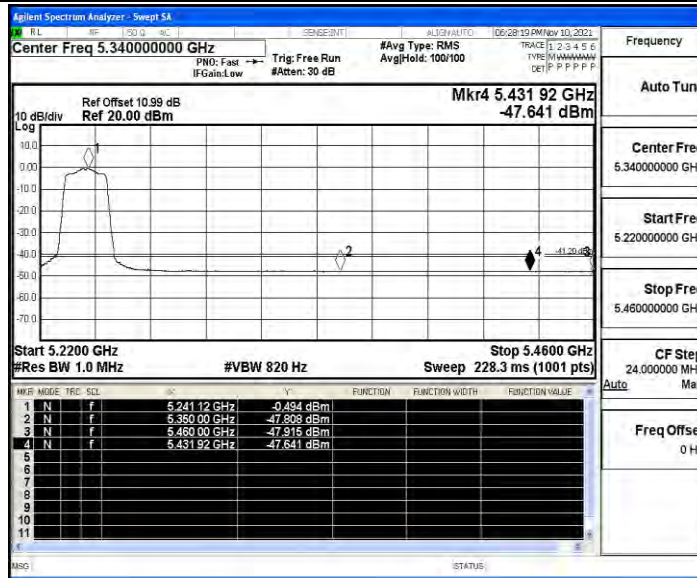
11N20SISO\_Ant2\_Low\_5180\_Peak



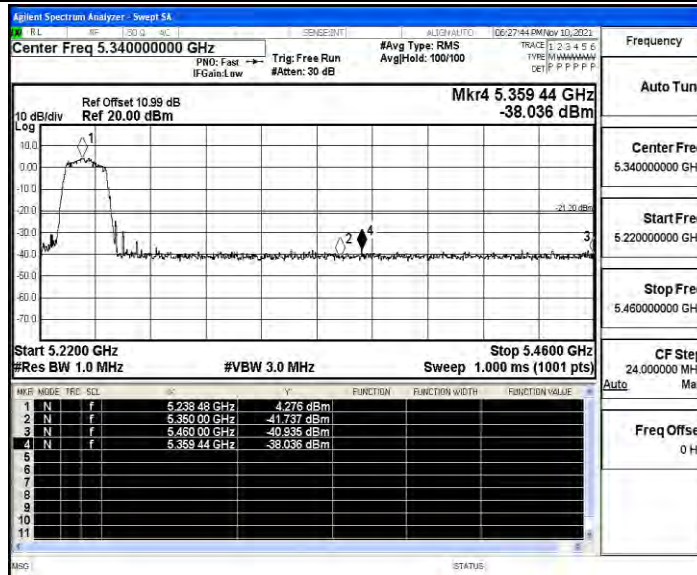




11N20SISO\_Ant2\_High\_5240\_AV

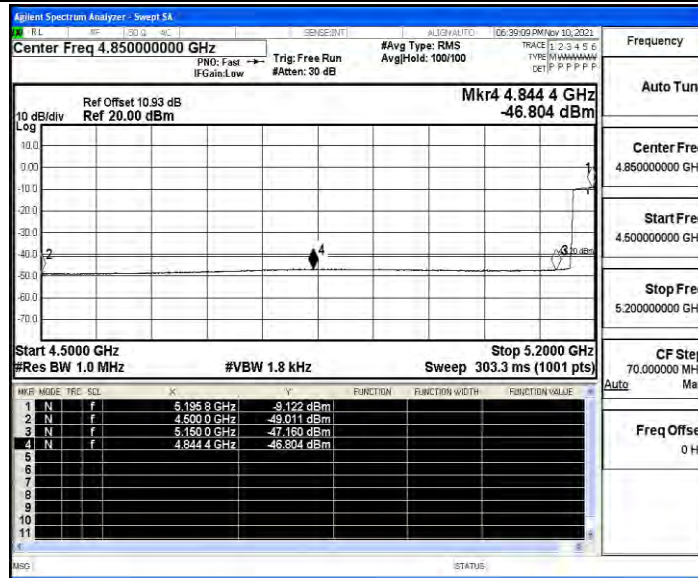


11N20SISO\_Ant2\_High\_5240\_Peak

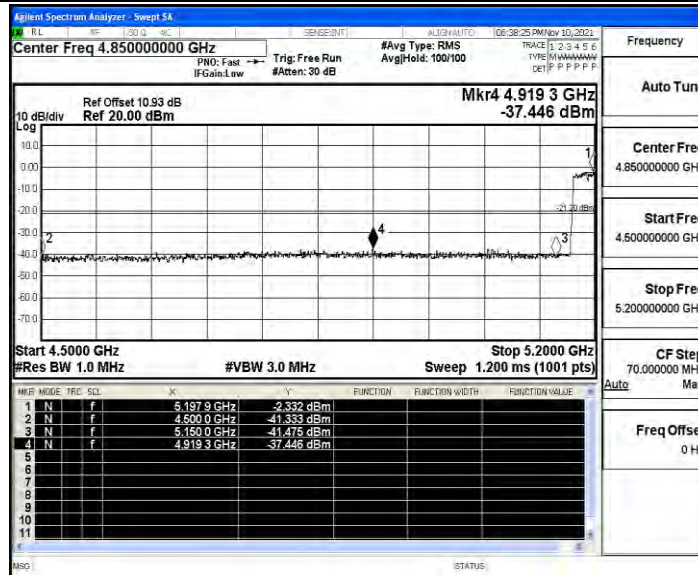




11N40SISO\_Ant2\_Low\_5190\_AV

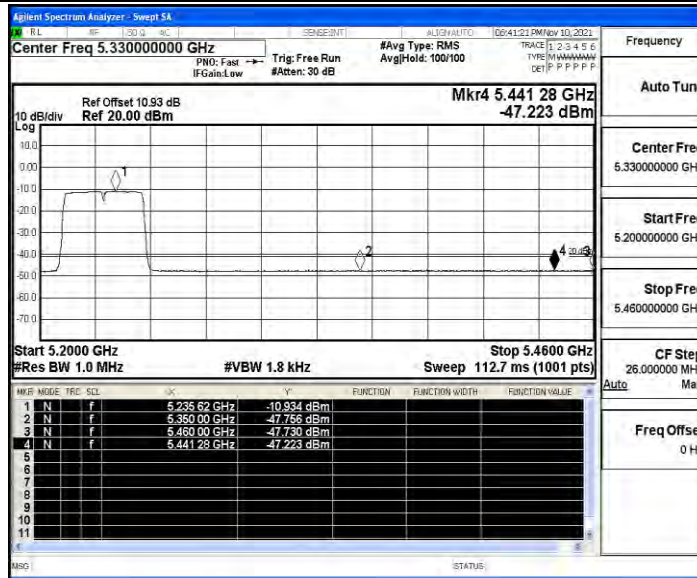


11N40SISO\_Ant2\_Low\_5190\_Peak

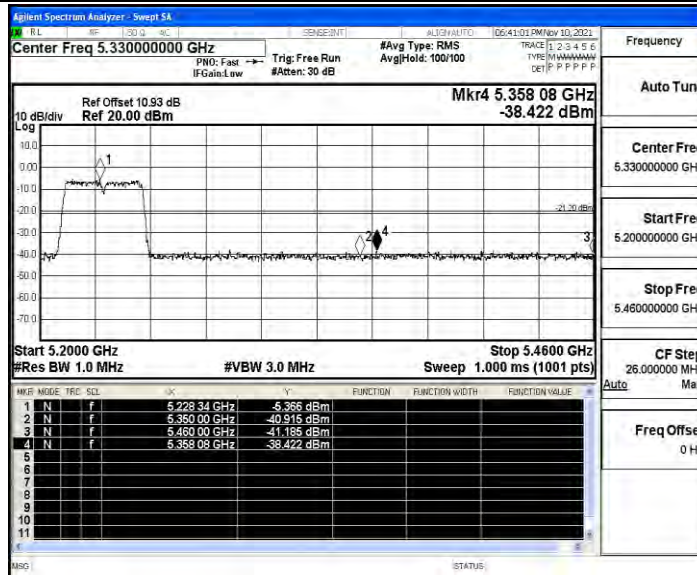




11N40SISO\_Ant2\_High\_5230\_AV

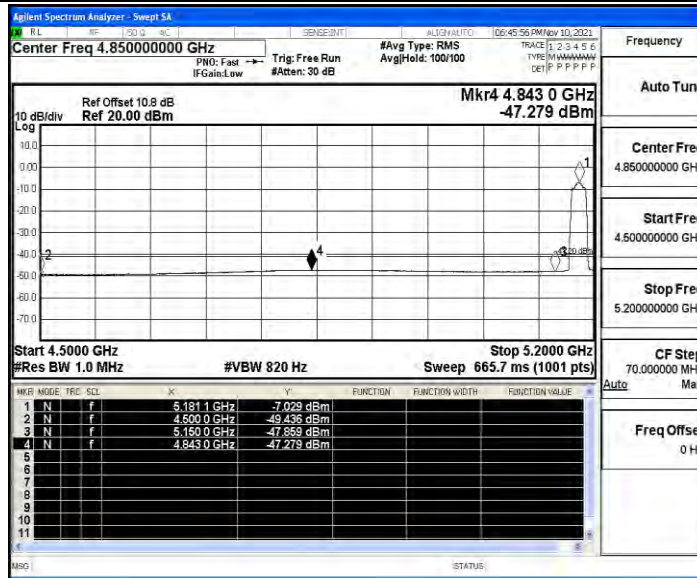


11N40SISO\_Ant2\_High\_5230\_Peak

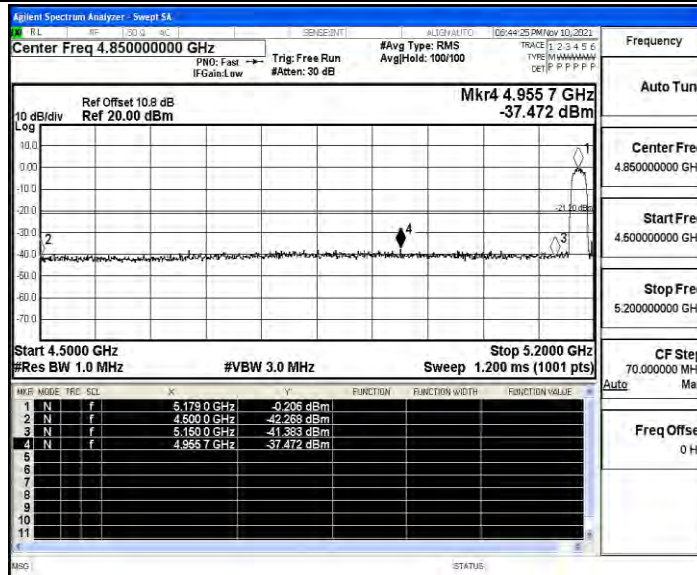




11AC20SISO\_Ant2\_Low\_5180\_AV

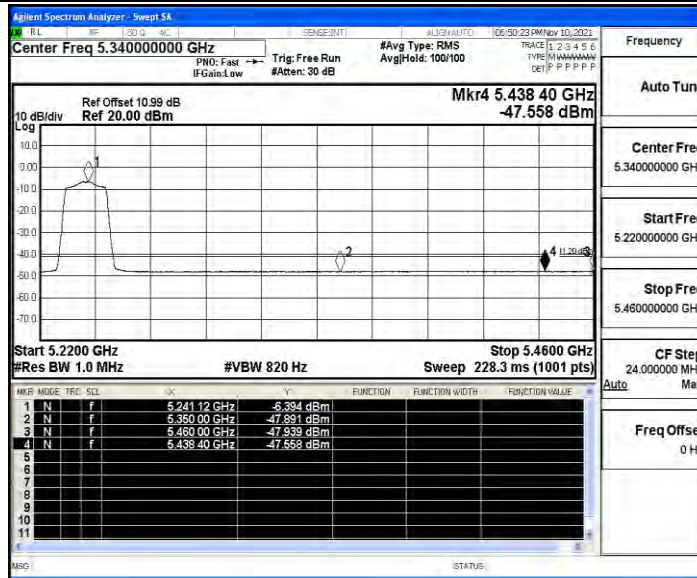


11AC20SISO\_Ant2\_Low\_5180\_Peak

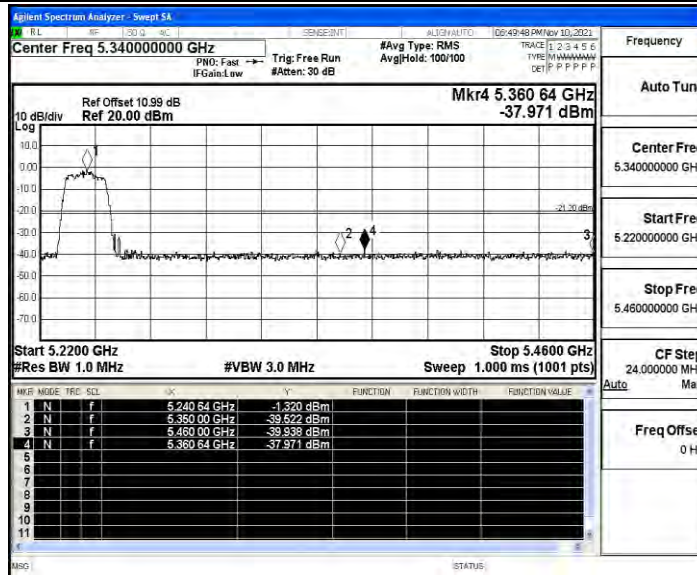




11AC20SISO\_Ant2\_High\_5240\_AV

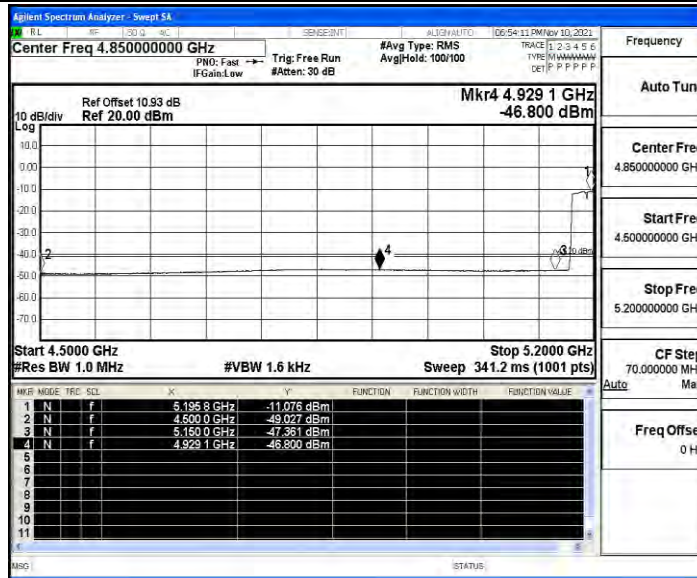


11AC20SISO\_Ant2\_High\_5240\_Peak

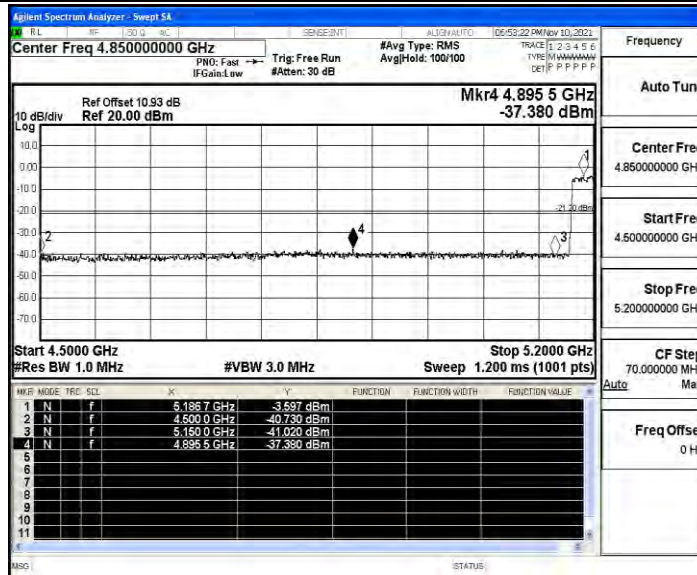




11AC40SISO\_Ant2\_Low\_5190\_AV

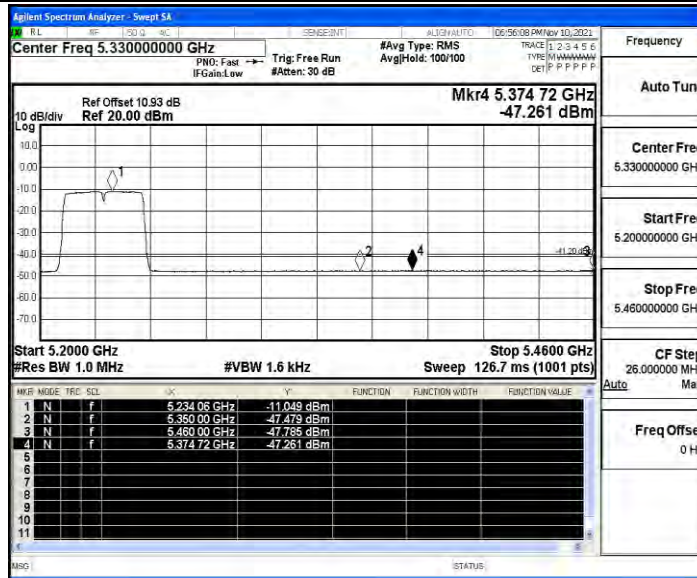


11AC40SISO\_Ant2\_Low\_5190\_Peak

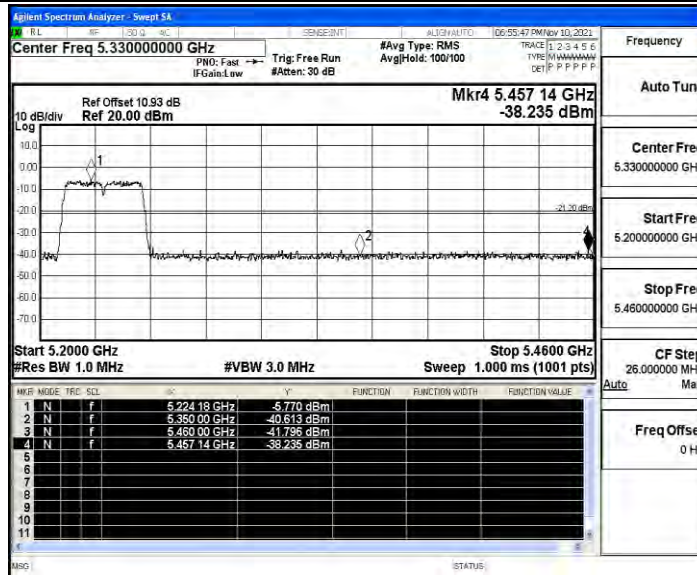




11AC40SISO\_Ant2\_High\_5230\_AV

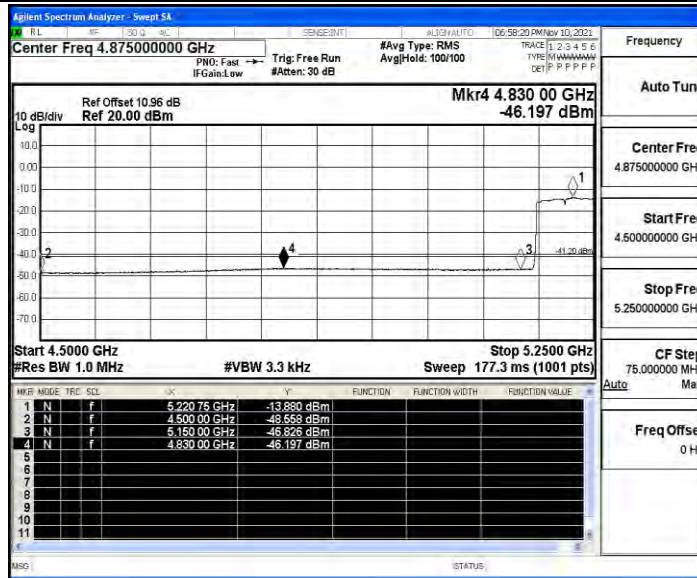


11AC40SISO\_Ant2\_High\_5230\_Peak

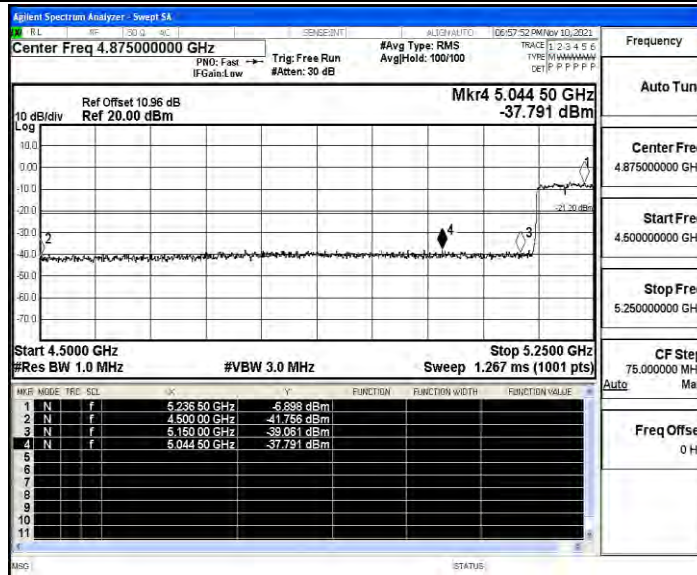




11AC80SISO\_Ant2\_Low\_5210\_AV



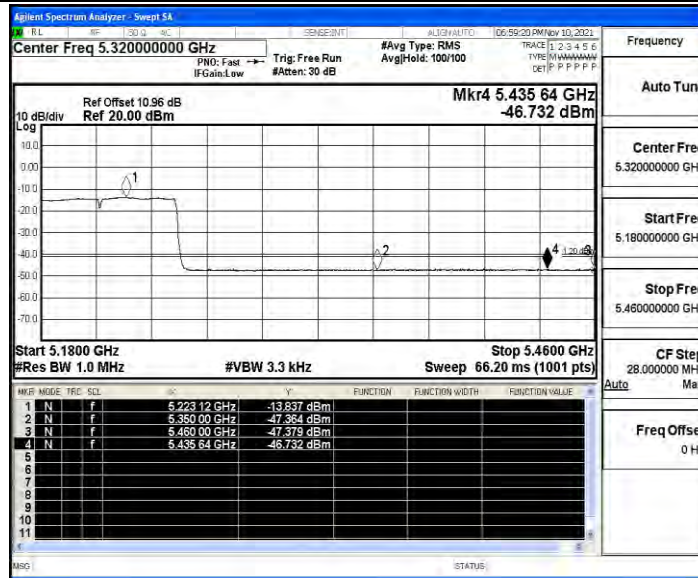
11AC80SISO\_Ant2\_Low\_5210\_Peak



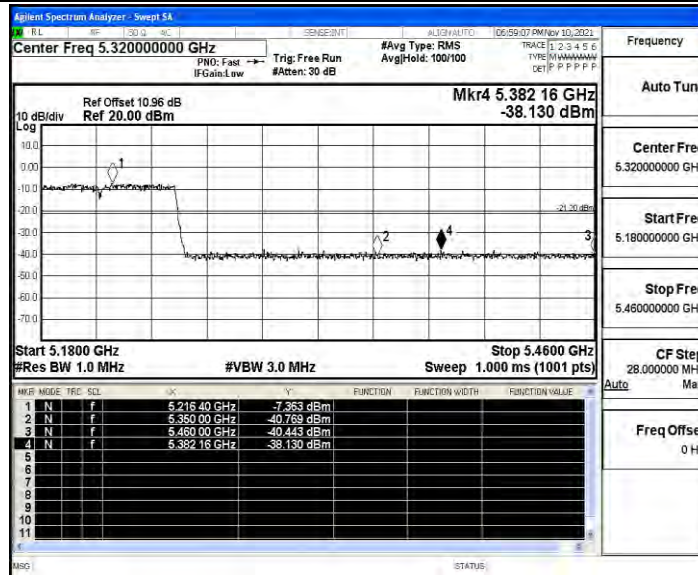




11AC80SISO\_Ant2\_High\_5210\_AV



11AC80SISO\_Ant2\_High\_5210\_Peak





## Appendix D.6: Frequency Stability

### Test Result

#### ANT 1

TestMode	Antenna	Channel	Voltage				Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)		
11A	Ant1	5180	NV	NT	59000	11.389961	20	PASS
			LV	NT	60000	11.583012	20	PASS
			HV	NT	60000	11.583012	20	PASS
		5200	NV	NT	61000	11.730769	20	PASS
			LV	NT	61000	11.730769	20	PASS
			HV	NT	61000	11.730769	20	PASS
		5240	NV	NT	62000	11.832061	20	PASS
			LV	NT	62000	11.832061	20	PASS
			HV	NT	62000	11.832061	20	PASS
11N20SISO	Ant1	5180	NV	NT	61000	11.776062	20	PASS
			LV	NT	61000	11.776062	20	PASS
			HV	NT	62000	11.969112	20	PASS
		5200	NV	NT	62000	11.923077	20	PASS
			LV	NT	62000	11.923077	20	PASS
			HV	NT	62000	11.923077	20	PASS
		5240	NV	NT	63000	12.022901	20	PASS
			LV	NT	63000	12.022901	20	PASS
			HV	NT	63000	12.022901	20	PASS
11N40SISO	Ant1	5190	NV	NT	61000	11.753372	20	PASS
			LV	NT	62000	11.94605	20	PASS
			HV	NT	62000	11.94605	20	PASS
		5230	NV	NT	63000	12.045889	20	PASS
			LV	NT	63000	12.045889	20	PASS
			HV	NT	64000	12.237094	20	PASS
11AC20SISO	Ant1	5180	NV	NT	63000	12.162162	20	PASS
			LV	NT	63000	12.162162	20	PASS
			HV	NT	63000	12.162162	20	PASS
		5200	NV	NT	63000	12.115385	20	PASS
			LV	NT	64000	12.307692	20	PASS
			HV	NT	64000	12.307692	20	PASS
		5240	NV	NT	64000	12.21374	20	PASS
			LV	NT	64000	12.21374	20	PASS
			HV	NT	65000	12.40458	20	PASS
11AC40SISO	Ant1	5190	NV	NT	63000	12.138728	20	PASS



O			LV	NT	64000	12.331407	20	PASS
			HV	NT	64000	12.331407	20	PASS
		5230	NV	NT	64000	12.237094	20	PASS
			LV	NT	65000	12.428298	20	PASS
			HV	NT	65000	12.428298	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	65000	12.476008	20	PASS
			LV	NT	65000	12.476008	20	PASS
			HV	NT	65000	12.476008	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	60000	11.583012	20	PASS
			NV	-20	60000	11.583012	20	PASS
			NV	-10	60000	11.583012	20	PASS
			NV	0	60000	11.583012	20	PASS
			NV	10	60000	11.583012	20	PASS
			NV	20	60000	11.583012	20	PASS
			NV	30	61000	11.776062	20	PASS
			NV	40	61000	11.776062	20	PASS
		5200	NV	50	61000	11.776062	20	PASS
			NV	-30	61000	11.730769	20	PASS
			NV	-20	61000	11.730769	20	PASS
			NV	-10	61000	11.730769	20	PASS
			NV	0	61000	11.730769	20	PASS
			NV	10	61000	11.730769	20	PASS
			NV	20	62000	11.923077	20	PASS
			NV	30	61000	11.730769	20	PASS
		5240	NV	40	61000	11.730769	20	PASS
			NV	50	61000	11.730769	20	PASS
			NV	-30	62000	11.832061	20	PASS
			NV	-20	62000	11.832061	20	PASS
			NV	-10	62000	11.832061	20	PASS
			NV	0	63000	12.022901	20	PASS
			NV	10	62000	11.832061	20	PASS
			NV	20	62000	11.832061	20	PASS
5180	NV	30	63000	12.022901	20	PASS		
	NV	40	62000	11.832061	20	PASS		
	NV	50	63000	12.022901	20	PASS		
	NV	-30	62000	11.969112	20	PASS		
11N20SI SO	Ant1	5180	NV	-20	62000	11.969112	20	PASS
			NV	-10	62000	11.969112	20	PASS
			NV	0	62000	11.969112	20	PASS
			NV	40	62000	11.969112	20	PASS



			NV	10	62000	11.969112	20	PASS		
			NV	20	62000	11.969112	20	PASS		
			NV	30	62000	11.969112	20	PASS		
			NV	40	62000	11.969112	20	PASS		
			NV	50	62000	11.969112	20	PASS		
		5200	NV	-30	62000	11.923077	20	PASS		
			NV	-20	62000	11.923077	20	PASS		
			NV	-10	63000	12.115385	20	PASS		
			NV	0	63000	12.115385	20	PASS		
			NV	10	62000	11.923077	20	PASS		
			NV	20	62000	11.923077	20	PASS		
			NV	30	63000	12.115385	20	PASS		
			NV	40	62000	11.923077	20	PASS		
			NV	50	63000	12.115385	20	PASS		
		5240	NV	-30	63000	12.022901	20	PASS		
			NV	-20	63000	12.022901	20	PASS		
			NV	-10	63000	12.022901	20	PASS		
			NV	0	64000	12.21374	20	PASS		
			NV	10	63000	12.022901	20	PASS		
			NV	20	63000	12.022901	20	PASS		
			NV	30	64000	12.21374	20	PASS		
			NV	40	63000	12.022901	20	PASS		
			NV	50	63000	12.022901	20	PASS		
		11N40SI SO	Ant1	5190	NV	-30	63000	12.138728	20	PASS
					NV	-20	63000	12.138728	20	PASS
					NV	-10	63000	12.138728	20	PASS
					NV	0	63000	12.138728	20	PASS
					NV	10	63000	12.138728	20	PASS
NV	20				63000	12.138728	20	PASS		
NV	30				63000	12.138728	20	PASS		
NV	40				63000	12.138728	20	PASS		
NV	50				63000	12.138728	20	PASS		
5230	NV			-30	64000	12.237094	20	PASS		
	NV			-20	64000	12.237094	20	PASS		
	NV			-10	64000	12.237094	20	PASS		
	NV			0	64000	12.237094	20	PASS		
	NV			10	64000	12.237094	20	PASS		
	NV			20	64000	12.237094	20	PASS		
	NV			30	64000	12.237094	20	PASS		
	NV			40	64000	12.237094	20	PASS		
	NV			50	64000	12.237094	20	PASS		
11AC20S ISO	Ant1	5180	NV	-30	63000	12.162162	20	PASS		
			NV	-20	63000	12.162162	20	PASS		



			NV	-10	63000	12.162162	20	PASS		
			NV	0	63000	12.162162	20	PASS		
			NV	10	63000	12.162162	20	PASS		
			NV	20	63000	12.162162	20	PASS		
			NV	30	64000	12.355212	20	PASS		
			NV	40	63000	12.162162	20	PASS		
			NV	50	64000	12.355212	20	PASS		
			NV	-30	64000	12.307692	20	PASS		
		5200	NV	-20	64000	12.307692	20	PASS		
			NV	-10	64000	12.307692	20	PASS		
			NV	0	64000	12.307692	20	PASS		
			NV	10	64000	12.307692	20	PASS		
			NV	20	64000	12.307692	20	PASS		
			NV	30	64000	12.307692	20	PASS		
			NV	40	64000	12.307692	20	PASS		
			NV	50	64000	12.307692	20	PASS		
		5240	NV	-30	65000	12.40458	20	PASS		
			NV	-20	65000	12.40458	20	PASS		
			NV	-10	65000	12.40458	20	PASS		
			NV	0	65000	12.40458	20	PASS		
			NV	10	65000	12.40458	20	PASS		
			NV	20	65000	12.40458	20	PASS		
			NV	30	65000	12.40458	20	PASS		
			NV	40	65000	12.40458	20	PASS		
		NV	50	65000	12.40458	20	PASS			
		11AC40S ISO	Ant1	5190	NV	-30	64000	12.331407	20	PASS
					NV	-20	65000	12.524085	20	PASS
					NV	-10	64000	12.331407	20	PASS
					NV	0	64000	12.331407	20	PASS
					NV	10	64000	12.331407	20	PASS
					NV	20	65000	12.524085	20	PASS
					NV	30	64000	12.331407	20	PASS
					NV	40	65000	12.524085	20	PASS
					NV	50	65000	12.524085	20	PASS
				5230	NV	-30	65000	12.428298	20	PASS
					NV	-20	65000	12.428298	20	PASS
NV	-10				66000	12.619503	20	PASS		
NV	0				66000	12.619503	20	PASS		
NV	10				66000	12.619503	20	PASS		
NV	20				66000	12.619503	20	PASS		
NV	30				66000	12.619503	20	PASS		
NV	40				66000	12.619503	20	PASS		
NV	50				66000	12.619503	20	PASS		



11AC80S ISO	Ant1	5210	NV	-30	65000	12.476008	20	PASS
			NV	-20	65000	12.476008	20	PASS
			NV	-10	65000	12.476008	20	PASS
			NV	0	65000	12.476008	20	PASS
			NV	10	65000	12.476008	20	PASS
			NV	20	65000	12.476008	20	PASS
			NV	30	65000	12.476008	20	PASS
			NV	40	65000	12.476008	20	PASS
			NV	50	65000	12.476008	20	PASS

**ANT 2**

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant2	5180	NV	NT	59000	11.389961	20	PASS
			LV	NT	64000	12.355212	20	PASS
			HV	NT	68000	13.127413	20	PASS
		5200	NV	NT	74000	14.230769	20	PASS
			LV	NT	77000	14.807692	20	PASS
			HV	NT	79000	15.192308	20	PASS
		5240	NV	NT	81000	15.458015	20	PASS
			LV	NT	83000	15.839695	20	PASS
			HV	NT	85000	16.221374	20	PASS
11N20SIS O	Ant2	5180	NV	NT	75000	14.478764	20	PASS
			LV	NT	81000	15.637066	20	PASS
			HV	NT	84000	16.216216	20	PASS
		5200	NV	NT	87000	16.730769	20	PASS
			LV	NT	86000	16.538462	20	PASS
			HV	NT	89000	17.115385	20	PASS
		5240	NV	NT	90000	17.175573	20	PASS
			LV	NT	93000	17.748092	20	PASS
			HV	NT	94000	17.938931	20	PASS
11N40SIS O	Ant2	5190	NV	NT	67000	12.909441	20	PASS
			LV	NT	75000	14.450867	20	PASS
			HV	NT	81000	15.606936	20	PASS
		5230	NV	NT	88000	16.826004	20	PASS
			LV	NT	92000	17.590822	20	PASS
			HV	NT	94000	17.973231	20	PASS
11AC20SI SO	Ant2	5180	NV	NT	80000	15.444015	20	PASS
			LV	NT	88000	16.988417	20	PASS
			HV	NT	92000	17.760618	20	PASS
		5200	NV	NT	93000	17.884615	20	PASS
			LV	NT	96000	18.461538	20	PASS



		5240	HV	NT	97000	18.653846	20	PASS
			NV	NT	94000	17.938931	20	PASS
			LV	NT	97000	18.51145	20	PASS
			HV	NT	98000	18.70229	20	PASS
11AC40SI SO	Ant2	5190	NV	NT	76000	14.643545	20	PASS
			LV	NT	85000	16.377649	20	PASS
			HV	NT	90000	17.34104	20	PASS
		5230	NV	NT	90000	17.208413	20	PASS
			LV	NT	94000	17.973231	20	PASS
			HV	NT	97000	18.546845	20	PASS
11AC80SI SO	Ant2	5210	NV	NT	86000	16.506718	20	PASS
			LV	NT	88000	16.890595	20	PASS
			HV	NT	89000	17.082534	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant2	5180	NV	-30	70000	13.513514	20	PASS
			NV	-20	72000	13.899614	20	PASS
			NV	-10	74000	14.285714	20	PASS
			NV	0	75000	14.478764	20	PASS
			NV	10	76000	14.671815	20	PASS
			NV	20	77000	14.864865	20	PASS
			NV	30	78000	15.057915	20	PASS
			NV	40	79000	15.250965	20	PASS
			NV	50	79000	15.250965	20	PASS
		5200	NV	-30	80000	15.384615	20	PASS
			NV	-20	81000	15.576923	20	PASS
			NV	-10	82000	15.769231	20	PASS
			NV	0	82000	15.769231	20	PASS
			NV	10	83000	15.961538	20	PASS
			NV	20	83000	15.961538	20	PASS
			NV	30	83000	15.961538	20	PASS
			NV	40	84000	16.153846	20	PASS
			NV	50	85000	16.346154	20	PASS
		5240	NV	-30	85000	16.221374	20	PASS
			NV	-20	86000	16.412214	20	PASS
			NV	-10	87000	16.603053	20	PASS
			NV	0	87000	16.603053	20	PASS
			NV	10	88000	16.793893	20	PASS
			NV	20	88000	16.793893	20	PASS
			NV	30	88000	16.793893	20	PASS
			NV	40	89000	16.984733	20	PASS
			NV	50	89000	16.984733	20	PASS



11N20SISO	Ant2	5180	NV	-30	86000	16.602317	20	PASS
			NV	-20	87000	16.795367	20	PASS
			NV	-10	87000	16.795367	20	PASS
			NV	0	88000	16.988417	20	PASS
			NV	10	88000	16.988417	20	PASS
			NV	20	89000	17.181467	20	PASS
			NV	30	89000	17.181467	20	PASS
			NV	40	89000	17.181467	20	PASS
			NV	50	90000	17.374517	20	PASS
		5200	NV	-30	90000	17.307692	20	PASS
			NV	-20	91000	17.5	20	PASS
			NV	-10	92000	17.692308	20	PASS
			NV	0	92000	17.692308	20	PASS
			NV	10	92000	17.692308	20	PASS
			NV	20	93000	17.884615	20	PASS
			NV	30	93000	17.884615	20	PASS
			NV	40	93000	17.884615	20	PASS
			NV	50	94000	18.076923	20	PASS
		5240	NV	-30	95000	18.129771	20	PASS
			NV	-20	95000	18.129771	20	PASS
			NV	-10	96000	18.320611	20	PASS
			NV	0	96000	18.320611	20	PASS
			NV	10	96000	18.320611	20	PASS
			NV	20	97000	18.51145	20	PASS
			NV	30	97000	18.51145	20	PASS
			NV	40	97000	18.51145	20	PASS
			NV	50	98000	18.70229	20	PASS
		11N40SISO	Ant2	5190	NV	-30	84000	16.184971
NV	-20				87000	16.763006	20	PASS
NV	-10				89000	17.148362	20	PASS
NV	0				90000	17.34104	20	PASS
NV	10				91000	17.533719	20	PASS
NV	20				92000	17.726397	20	PASS
NV	30				92000	17.726397	20	PASS
NV	40				93000	17.919075	20	PASS
NV	50				94000	18.111753	20	PASS
5230	NV			-30	96000	18.355641	20	PASS
	NV			-20	96000	18.355641	20	PASS
	NV			-10	96000	18.355641	20	PASS
	NV			0	97000	18.546845	20	PASS
	NV			10	97000	18.546845	20	PASS
	NV			20	97000	18.546845	20	PASS
	NV			30	98000	18.73805	20	PASS





			NV	40	98000	18.73805	20	PASS		
			NV	50	98000	18.73805	20	PASS		
11AC20SISO	Ant2	5180	NV	-30	94000	18.146718	20	PASS		
			NV	-20	94000	18.146718	20	PASS		
			NV	-10	95000	18.339768	20	PASS		
			NV	0	96000	18.532819	20	PASS		
			NV	10	96000	18.532819	20	PASS		
			NV	20	96000	18.532819	20	PASS		
			NV	30	97000	18.725869	20	PASS		
			NV	40	97000	18.725869	20	PASS		
			NV	50	97000	18.725869	20	PASS		
			5200	NV	-30	97000	18.653846	20	PASS	
		NV		-20	98000	18.846154	20	PASS		
		NV		-10	98000	18.846154	20	PASS		
		NV		0	98000	18.846154	20	PASS		
		NV		10	98000	18.846154	20	PASS		
		NV		20	99000	19.038462	20	PASS		
		NV		30	99000	19.038462	20	PASS		
		NV		40	99000	19.038462	20	PASS		
		5240	NV	50	99000	19.038462	20	PASS		
			NV	-30	99000	18.89313	20	PASS		
			NV	-20	100000	19.083969	20	PASS		
			NV	-10	100000	19.083969	20	PASS		
			NV	0	100000	19.083969	20	PASS		
			NV	10	101000	19.274809	20	PASS		
			NV	20	101000	19.274809	20	PASS		
NV	30		101000	19.274809	20	PASS				
11AC40SISO	Ant2	5190	NV	40	101000	19.274809	20	PASS		
			NV	50	101000	19.274809	20	PASS		
			NV	-30	93000	17.919075	20	PASS		
			NV	-20	94000	18.111753	20	PASS		
			NV	-10	95000	18.304432	20	PASS		
			NV	0	96000	18.49711	20	PASS		
			NV	10	97000	18.689788	20	PASS		
			NV	20	97000	18.689788	20	PASS		
			NV	30	98000	18.882466	20	PASS		
		5230	NV	40	98000	18.882466	20	PASS		
			NV	50	98000	18.882466	20	PASS		
			NV	-30	98000	18.73805	20	PASS		
			NV	-20	99000	18.929254	20	PASS		
			NV	-10	99000	18.929254	20	PASS		
					NV	0	100000	19.120459	20	PASS
					NV	10	100000	19.120459	20	PASS



			NV	20	100000	19.120459	20	PASS
			NV	30	101000	19.311663	20	PASS
			NV	40	101000	19.311663	20	PASS
			NV	50	101000	19.311663	20	PASS
11AC80SISO	Ant2	5210	NV	-30	89000	17.082534	20	PASS
			NV	-20	89000	17.082534	20	PASS
			NV	-10	89000	17.082534	20	PASS
			NV	0	88000	16.890595	20	PASS
			NV	10	88000	16.890595	20	PASS
			NV	20	88000	16.890595	20	PASS
			NV	30	88000	16.890595	20	PASS
			NV	40	88000	16.890595	20	PASS
			NV	50	87000	16.698656	20	PASS