



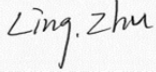

## Appendix D

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

Product Name: Remote control

Test Model: RM-RX1

#### Environmental Conditions

Temperature:	23.7°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



## D.1 Emission Bandwidth

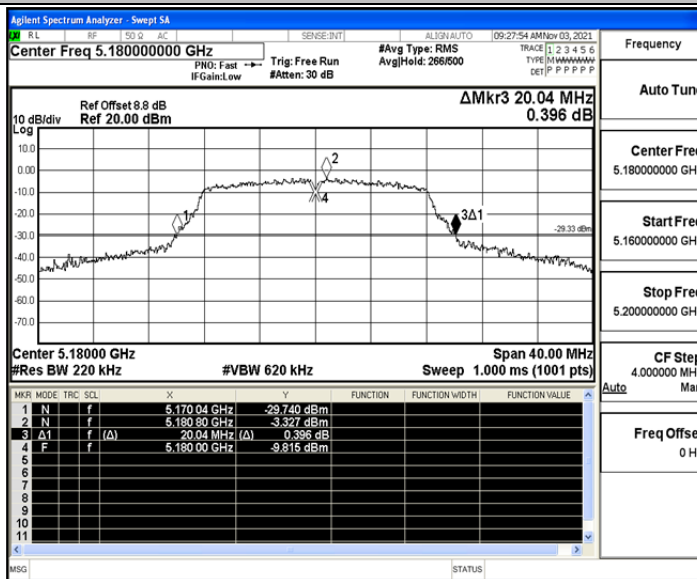
### Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.040	5170.040	5190.080	---	PASS
		5200	20.040	5189.960	5210.000	---	PASS
		5240	19.920	5230.080	5250.000	---	PASS
11N20SISO	Ant1	5180	20.360	5169.760	5190.120	---	PASS
		5200	20.280	5189.840	5210.120	---	PASS
		5240	20.240	5229.800	5250.040	---	PASS
11N40SISO	Ant1	5190	40.160	5169.840	5210.000	---	PASS
		5230	40.560	5209.600	5250.160	---	PASS
11AC20SISO	Ant1	5180	20.320	5169.880	5190.200	---	PASS
		5200	20.360	5189.920	5210.280	---	PASS
		5240	20.320	5229.880	5250.200	---	PASS
11AC40SISO	Ant1	5190	40.160	5170.000	5210.160	---	PASS
		5230	40.640	5209.840	5250.480	---	PASS
11AC80SISO	Ant1	5210	80.480	5169.680	5250.160	---	PASS

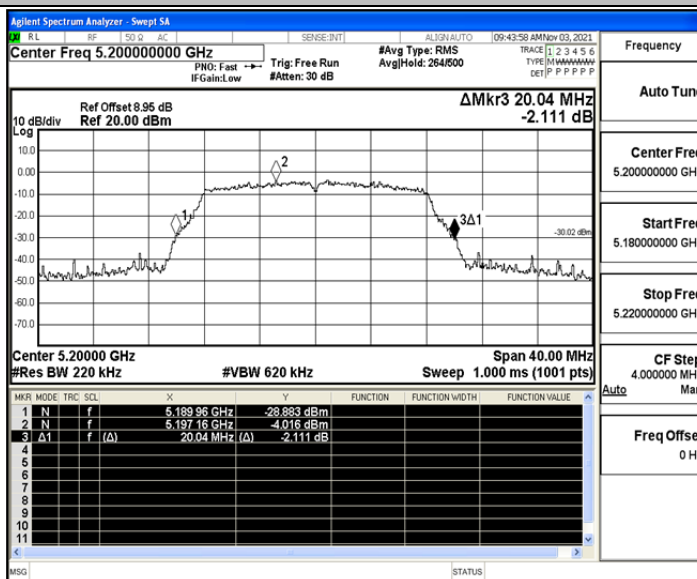


### Test Graphs

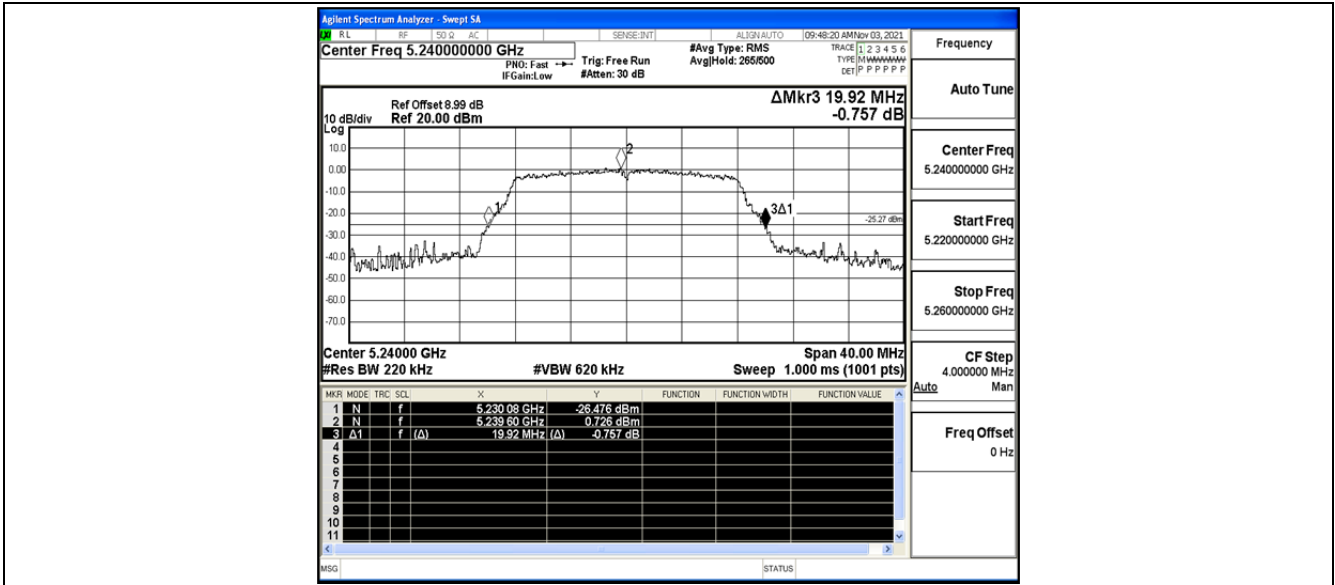
11A\_Ant1\_5180



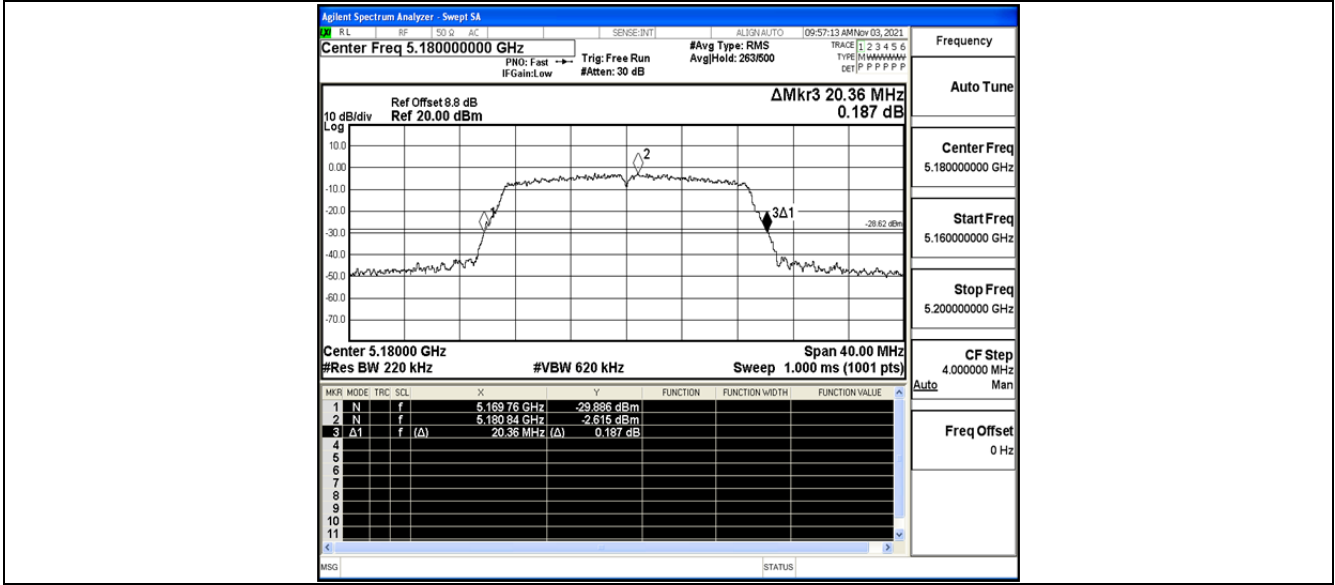
11A\_Ant1\_5200



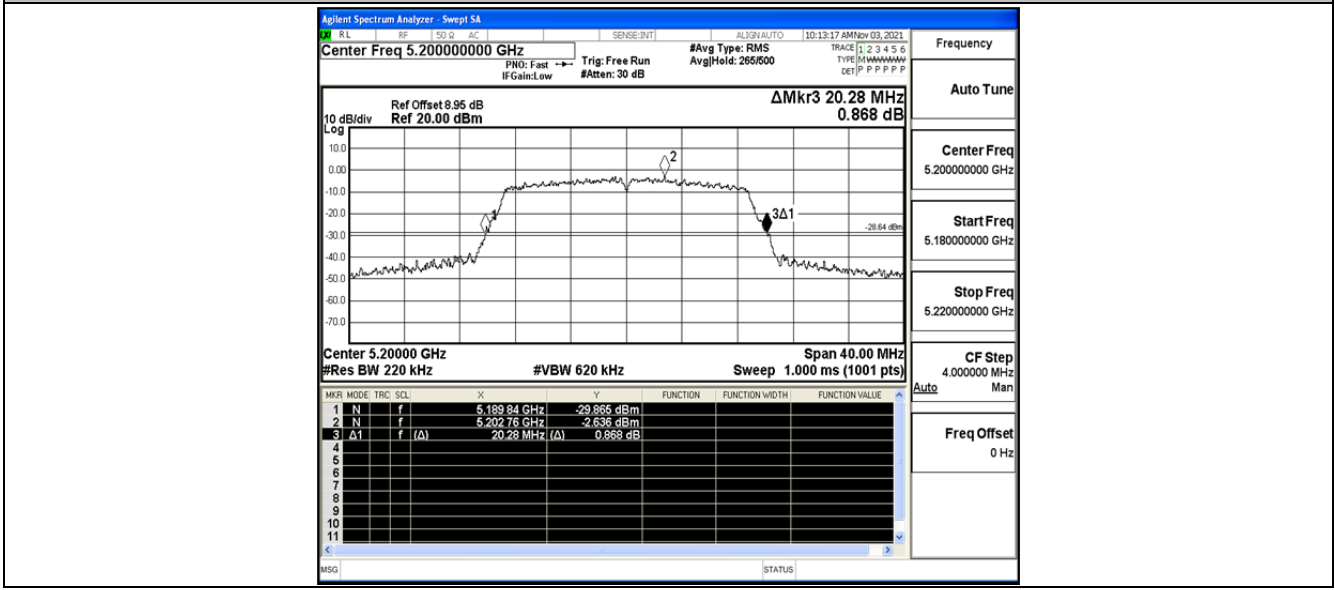
11A\_Ant1\_5240



11N20SISO\_Ant1\_5180

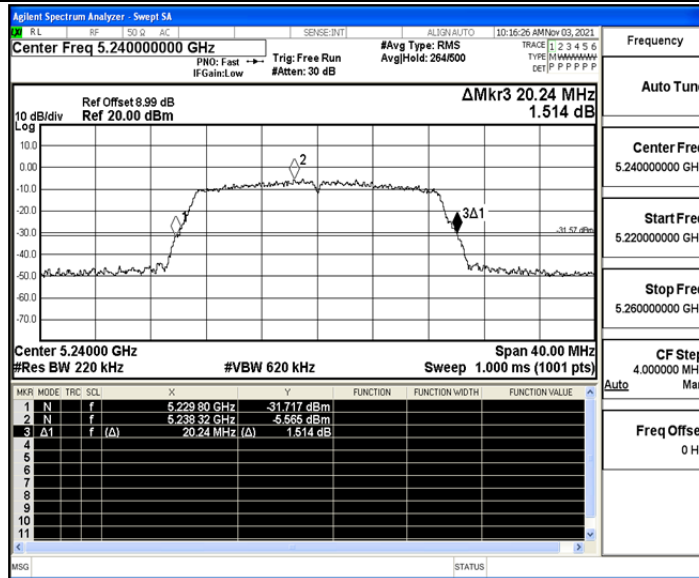


11N20SISO\_Ant1\_5200

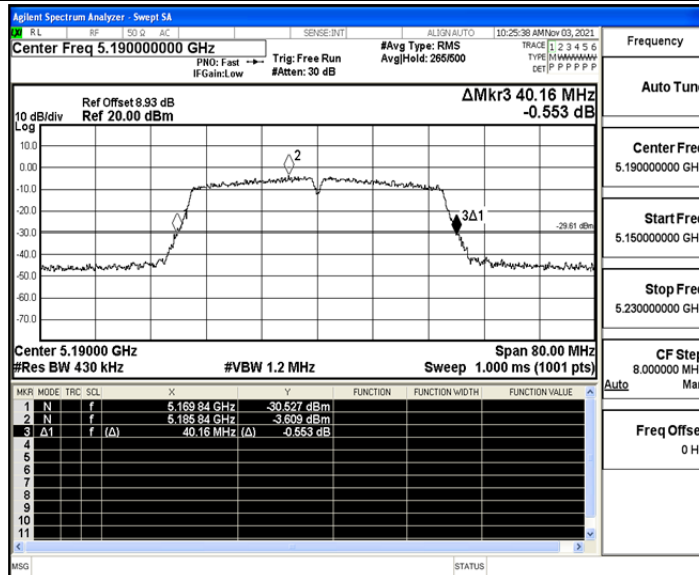




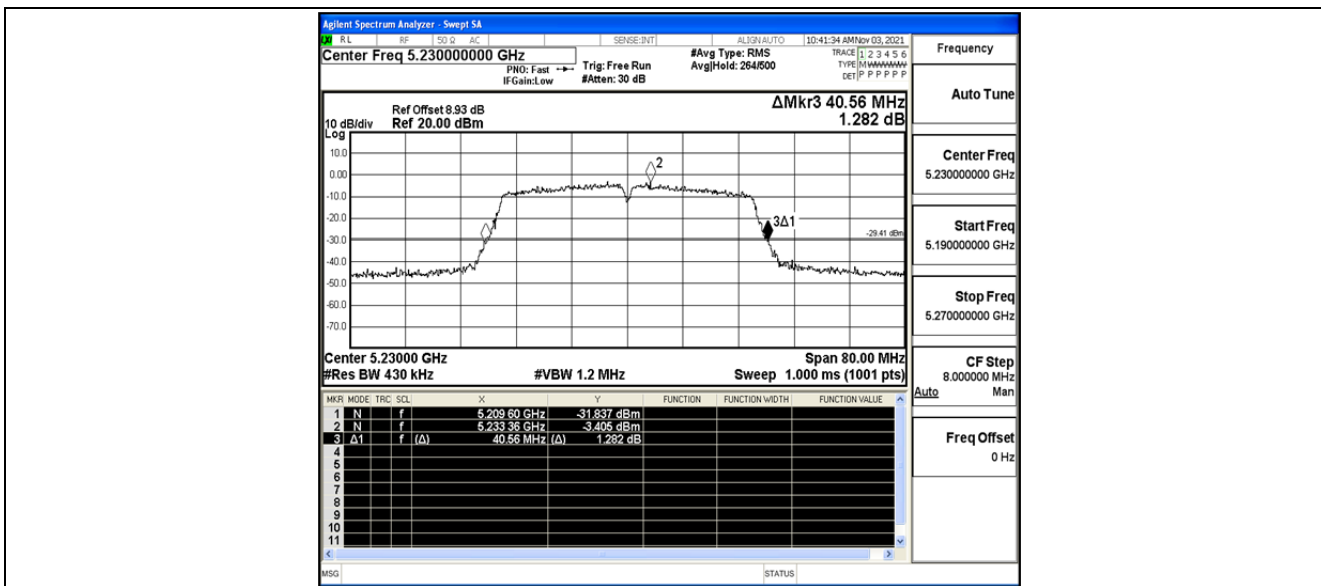
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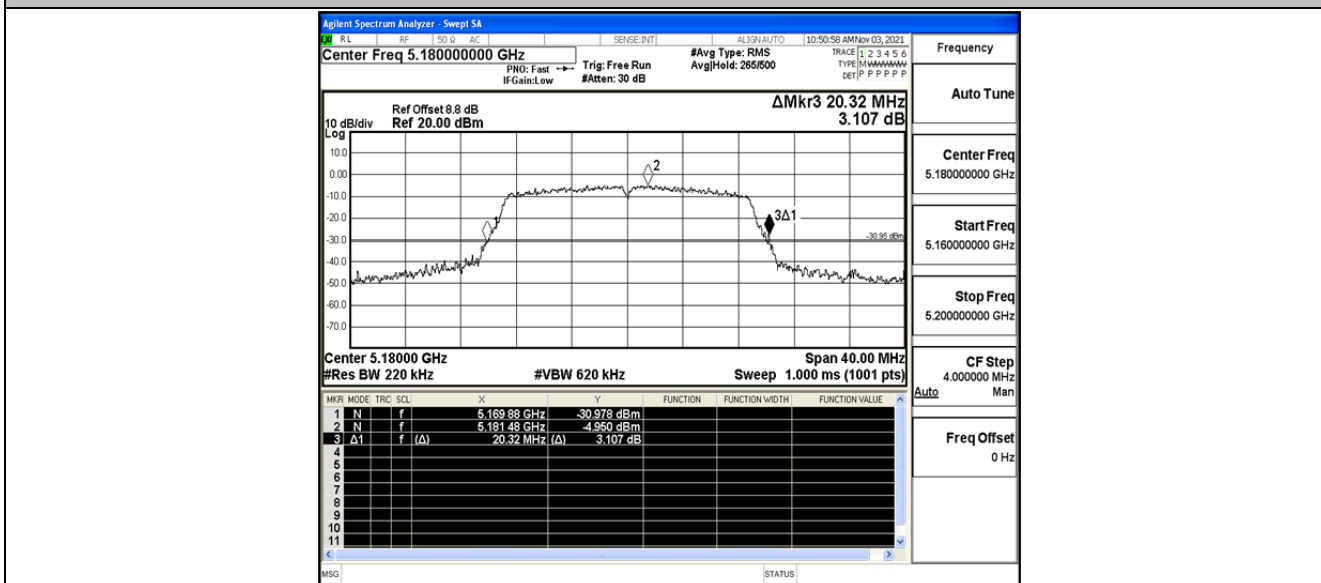
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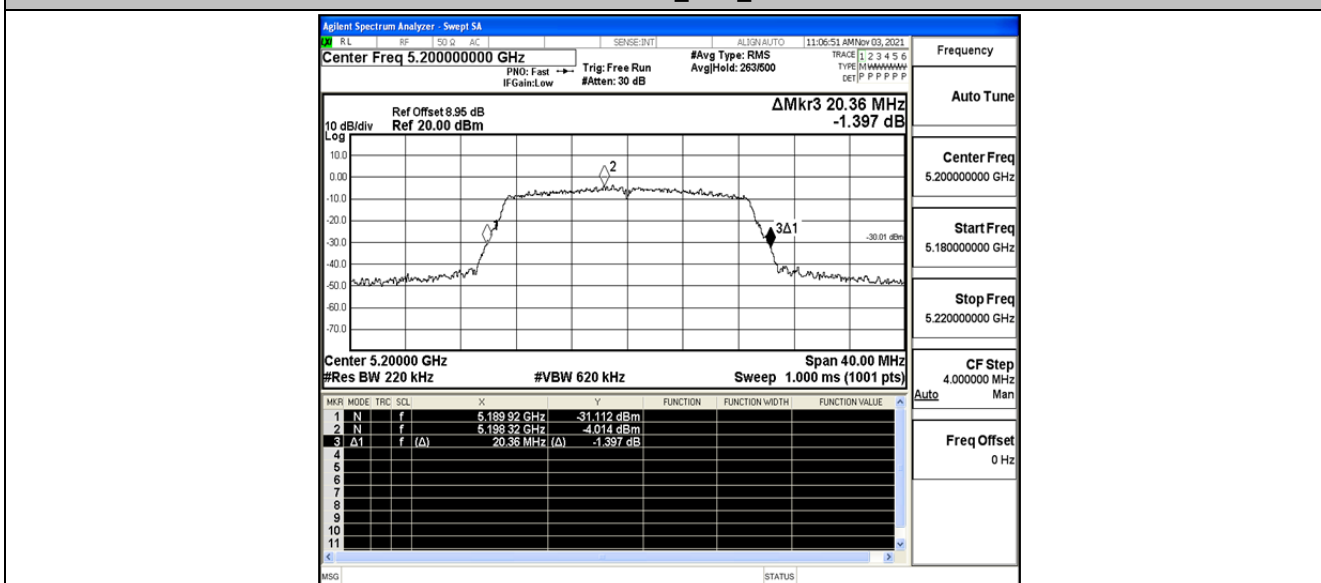
11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180

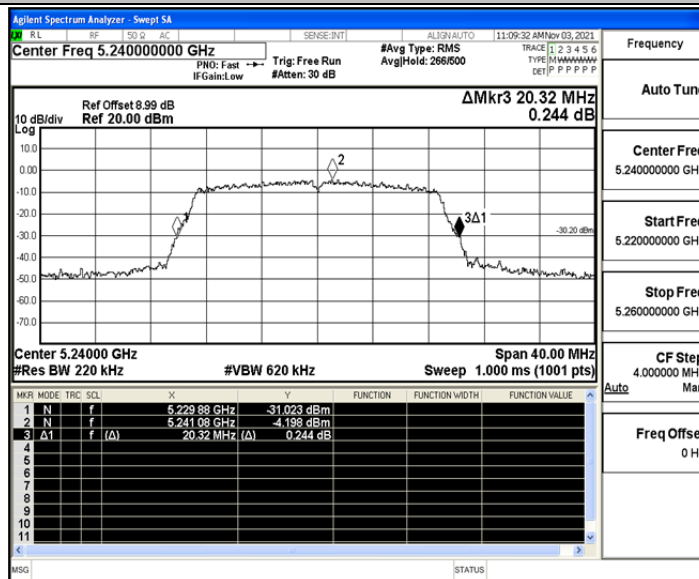


11AC20SISO\_Ant1\_5200

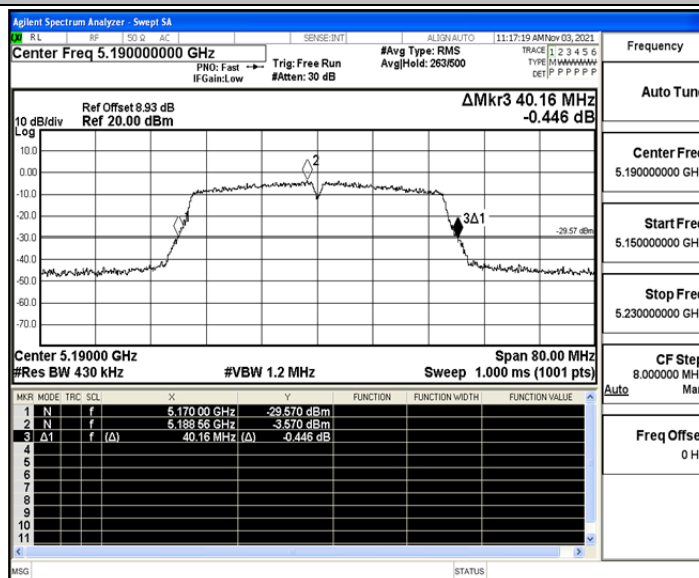




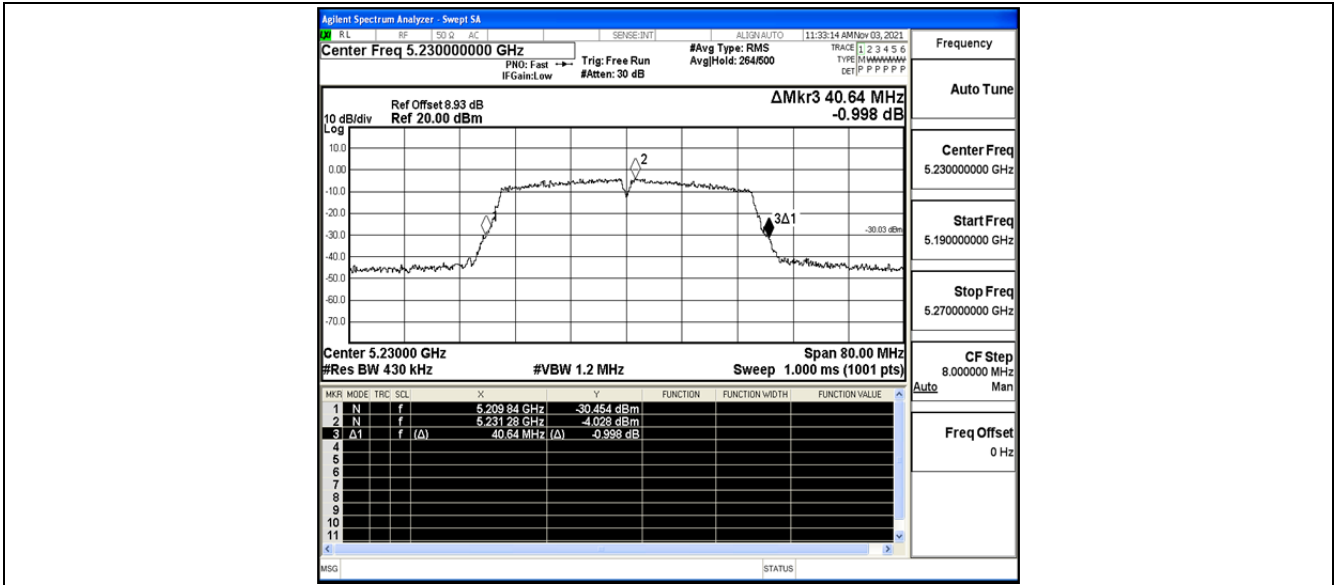
11AC20SISO\_Ant1\_5240



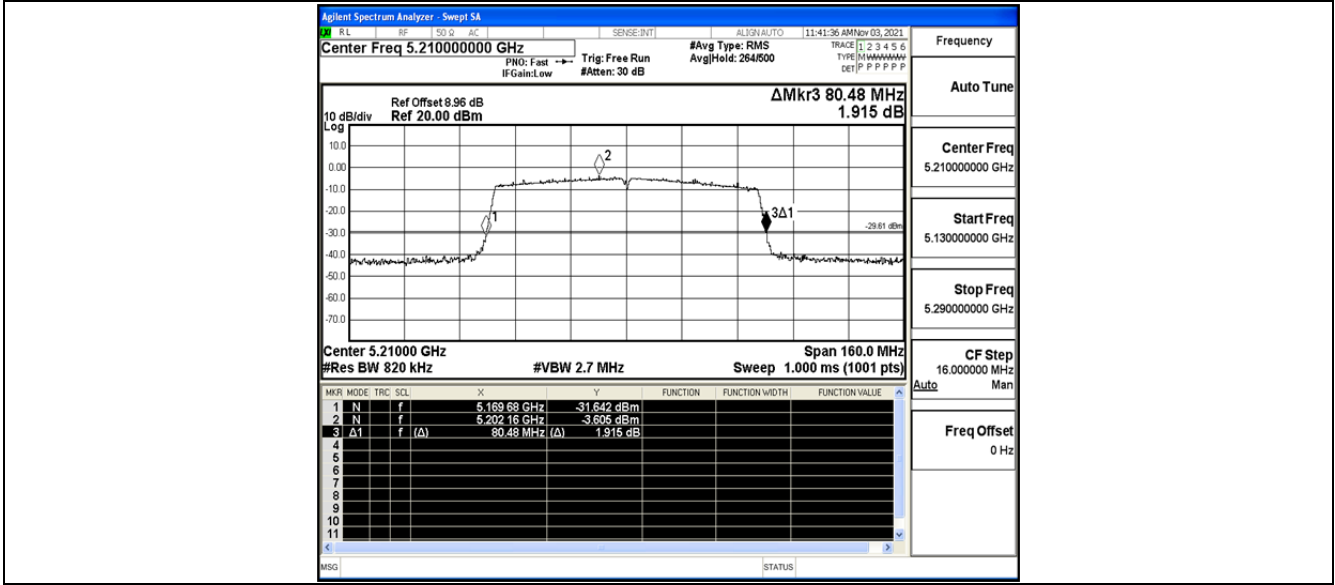
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210







## D.2 Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	5.97	≤23.98	PASS
		5200	6.43	≤23.98	PASS
		5240	6.22	≤23.98	PASS
11N20SISO	Ant1	5180	6.13	≤23.98	PASS
		5200	6.09	≤23.98	PASS
		5240	6.19	≤23.98	PASS
11N40SISO	Ant1	5190	6.44	≤23.98	PASS
		5230	6.42	≤23.98	PASS
11AC20SISO	Ant1	5180	6.11	≤23.98	PASS
		5200	6.28	≤23.98	PASS
		5240	6.18	≤23.98	PASS
11AC40SISO	Ant1	5190	6.26	≤23.98	PASS
		5230	6.43	≤23.98	PASS
11AC80SISO	Ant1	5210	3.26	≤23.98	PASS

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



### D.3 Maximum power spectral density

#### Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-4.39	≤11	PASS
		5200	-4.07	≤11	PASS
		5240	-4.3	≤11	PASS
11N20SISO	Ant1	5180	-4.2	≤11	PASS
		5200	-4.3	≤11	PASS
		5240	-4.15	≤11	PASS
11N40SISO	Ant1	5190	-6.97	≤11	PASS
		5230	-6.88	≤11	PASS
11AC20SISO	Ant1	5180	-4.21	≤11	PASS
		5200	-4.09	≤11	PASS
		5240	-4.11	≤11	PASS
11AC40SISO	Ant1	5190	-7.04	≤11	PASS
		5230	-6.8	≤11	PASS
11AC80SISO	Ant1	5210	-10.35	≤11	PASS

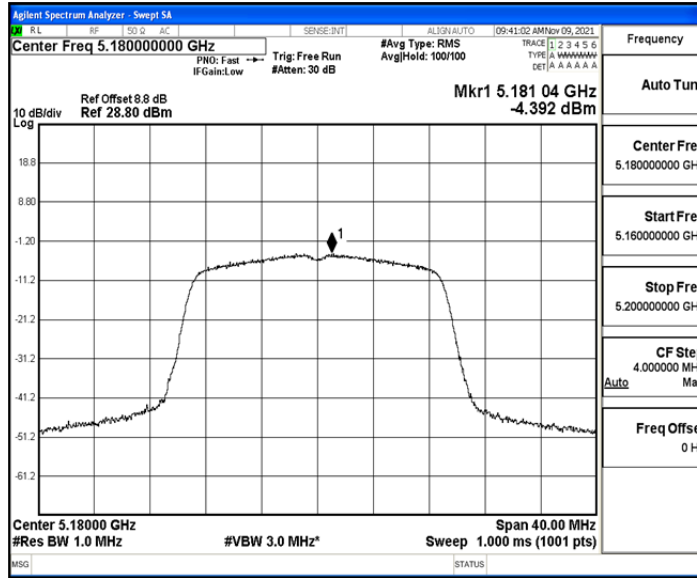
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.15–5.25 GHz.

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

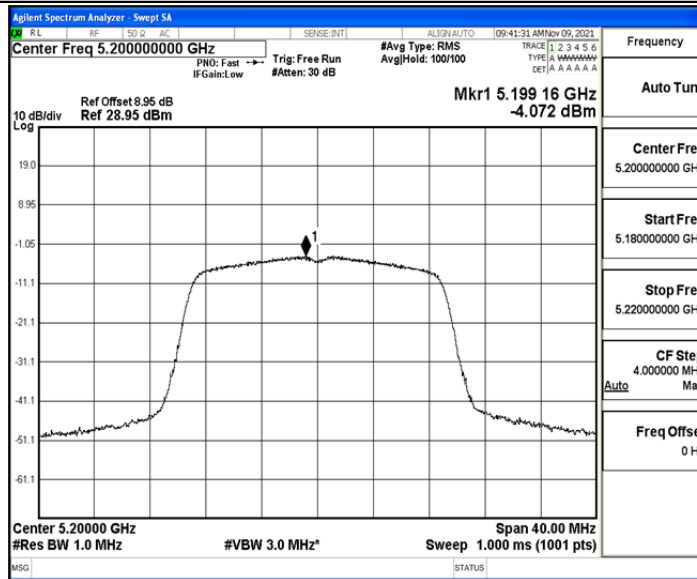


### Test Graphs

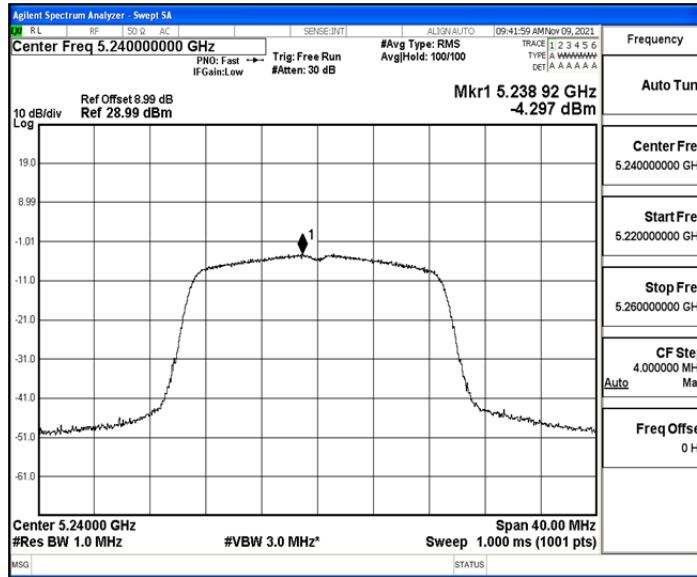
11A\_Ant1\_5180



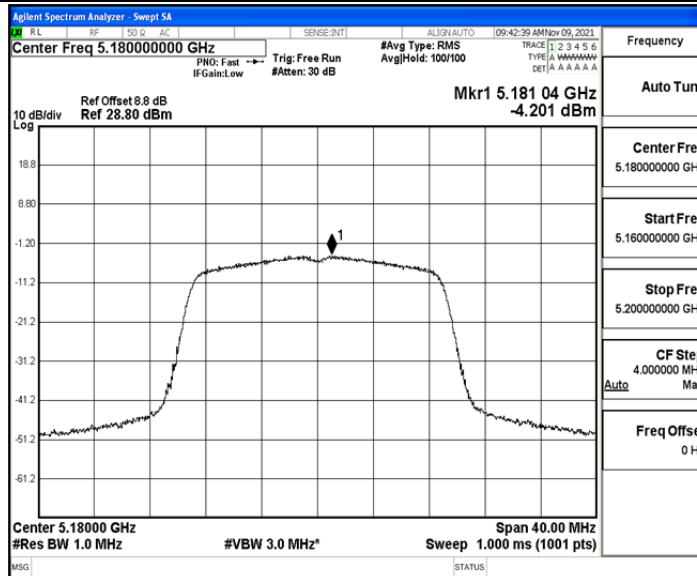
11A\_Ant1\_5200



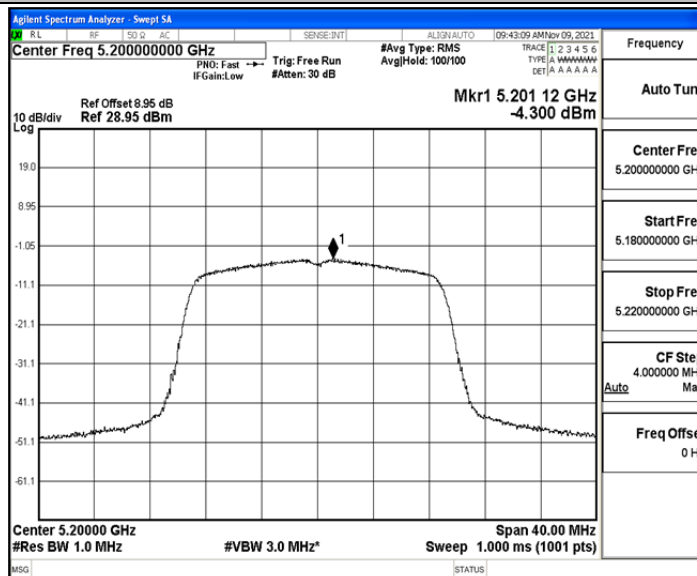
11A\_Ant1\_5240



11N20SISO\_Ant1\_5180

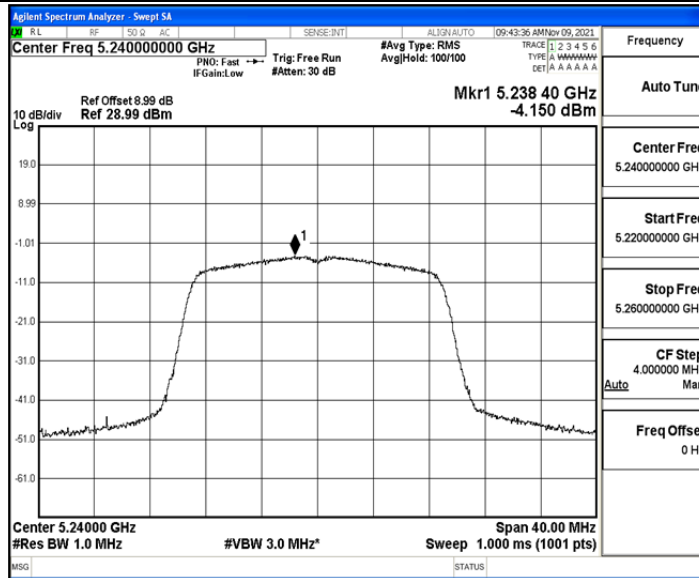


11N20SISO\_Ant1\_5200

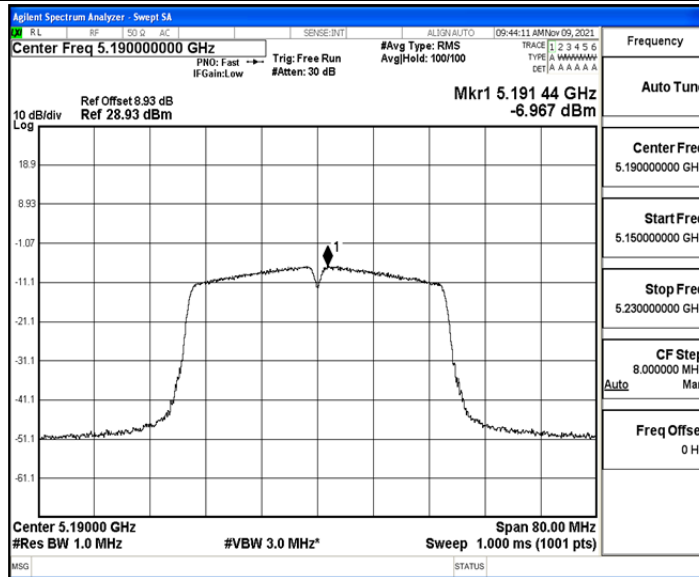




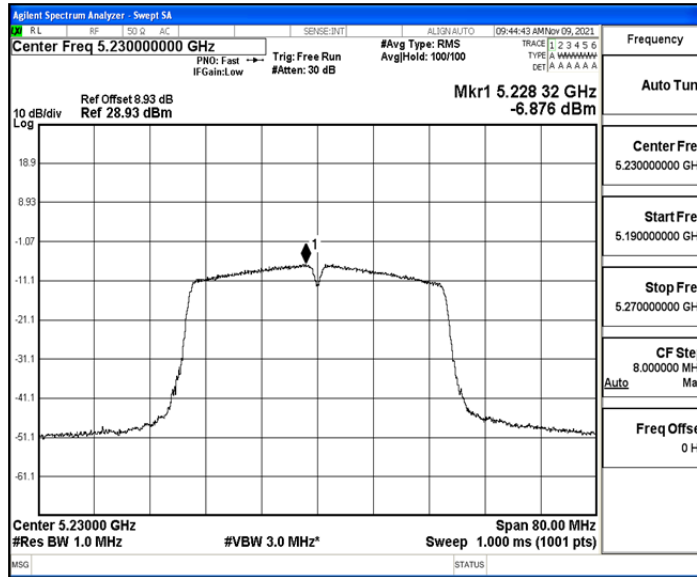
11N20SISO\_Ant1\_5240



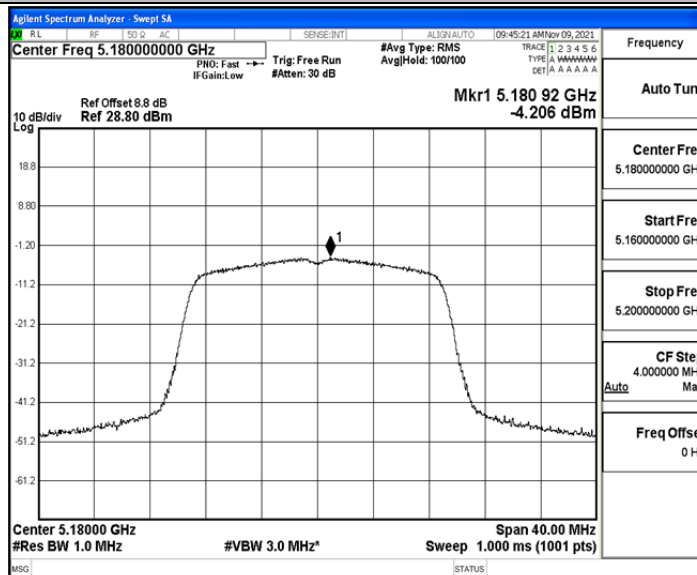
11N40SISO\_Ant1\_5190



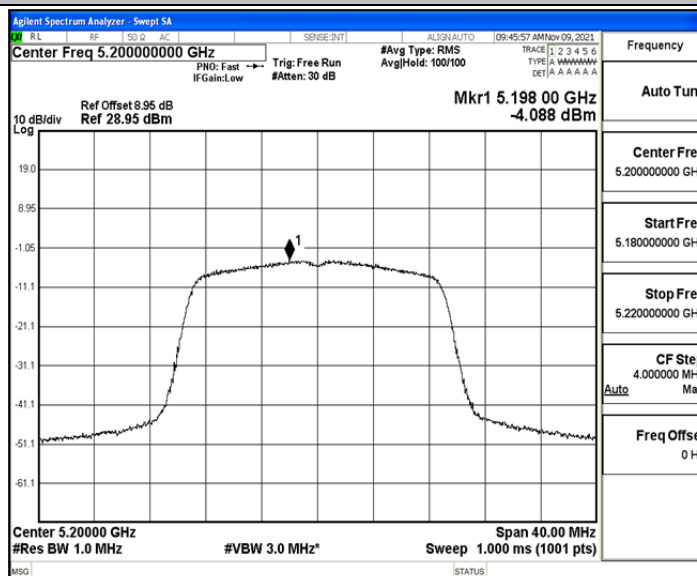
11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180

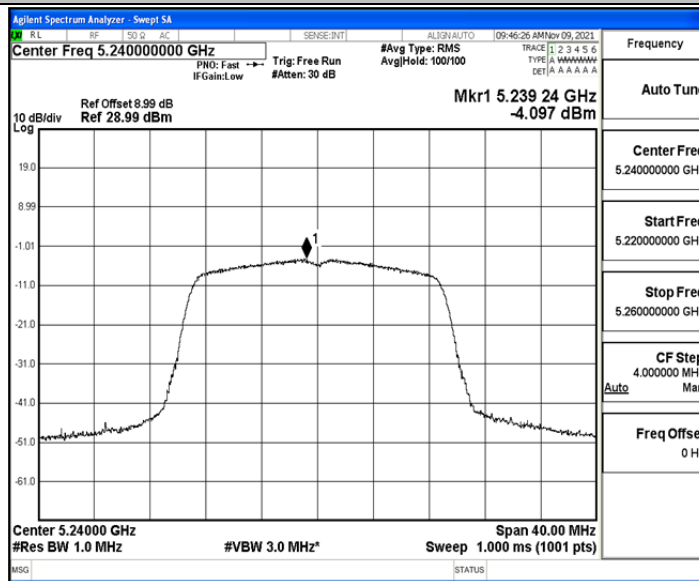


11AC20SISO\_Ant1\_5200

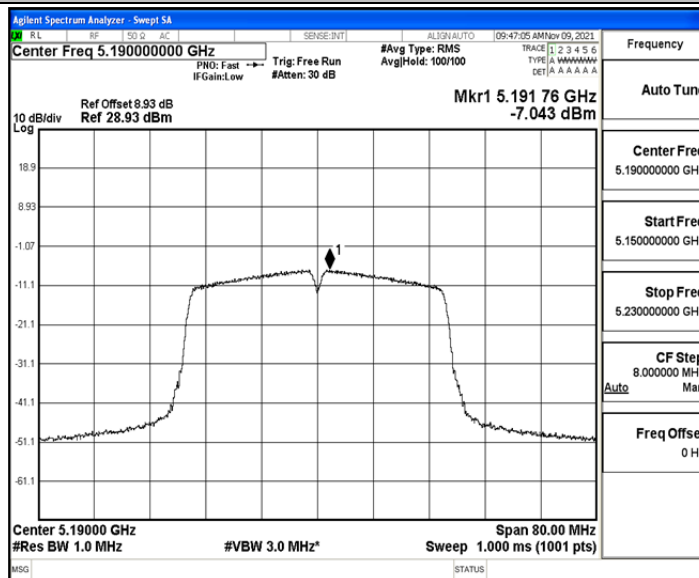




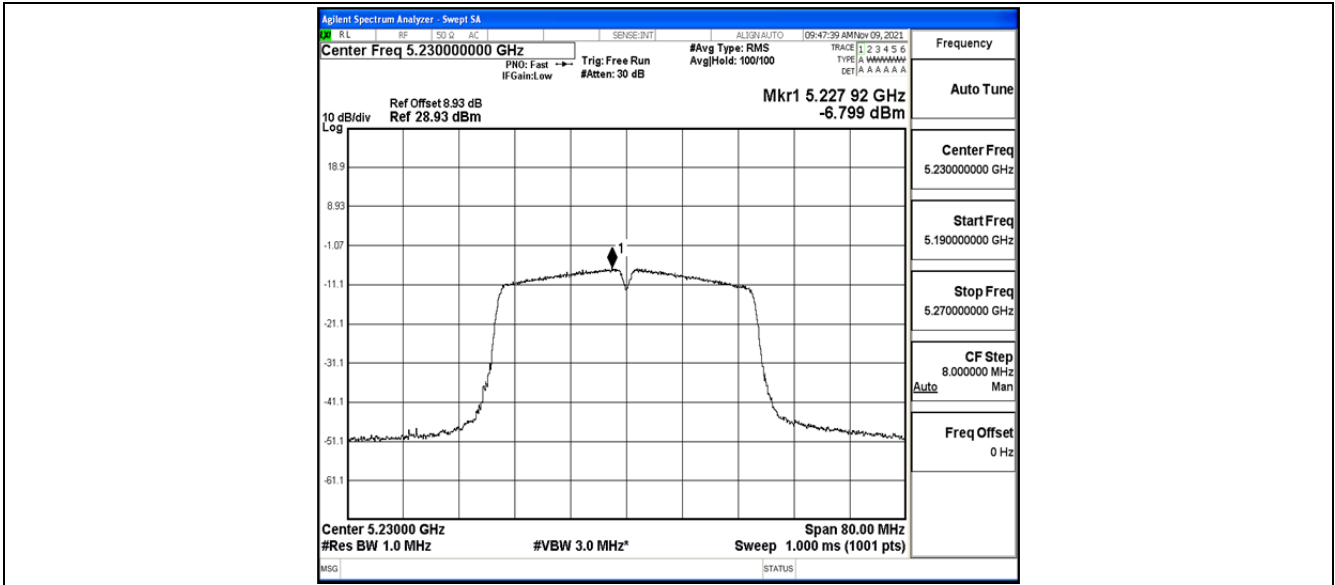
11AC20SISO\_Ant1\_5240



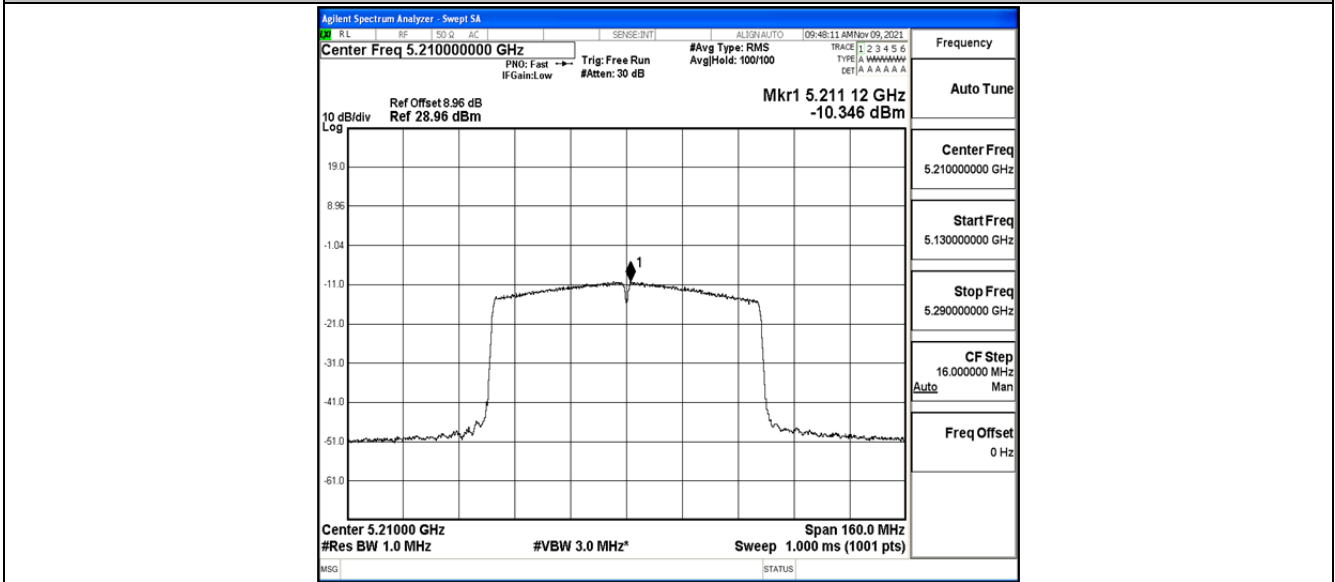
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210







## D.5 Emissions in Restricted Bands

### Test Result

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	-49.95	≤-41.20	45.25	≤54	PASS
				AV	5149.600	-48.07	≤-41.20	47.13	≤54	PASS
				AV	5150.000	-48.05	≤-41.20	47.15	≤54	PASS
				Peak	4500.000	-45.25	≤-21.20	49.95	≤74	PASS
				Peak	4891.300	-38.27	≤-21.20	56.93	≤74	PASS
				Peak	5150.000	-43.88	≤-21.20	51.32	≤74	PASS
		High	5240	AV	5350.000	-48.43	≤-41.20	46.77	≤54	PASS
				AV	5364.960	-48.41	≤-41.20	46.79	≤54	PASS
				AV	5460.000	-48.51	≤-41.20	46.69	≤54	PASS
				Peak	5350.000	-44.38	≤-21.20	50.82	≤74	PASS
				Peak	5411.520	-39.62	≤-21.20	55.58	≤74	PASS
				Peak	5460.000	-42.31	≤-21.20	52.89	≤74	PASS
11N20SI SO	Ant1	Low	5180	AV	4500.000	-49.98	≤-41.20	45.22	≤54	PASS
				AV	5149.600	-47.72	≤-41.20	47.48	≤54	PASS
				AV	5150.000	-47.71	≤-41.20	47.49	≤54	PASS
				Peak	4500.000	-45.24	≤-21.20	49.96	≤74	PASS
				Peak	4809.400	-38.95	≤-21.20	56.25	≤74	PASS
				Peak	5150.000	-40.46	≤-21.20	54.74	≤74	PASS
		High	5240	AV	5350.000	-48.53	≤-41.20	46.67	≤54	PASS
				AV	5361.840	-48.48	≤-41.20	46.72	≤54	PASS
				AV	5460.000	-48.52	≤-41.20	46.68	≤54	PASS
				Peak	5350.000	-44.65	≤-21.20	50.55	≤74	PASS
				Peak	5388.240	-38.51	≤-21.20	56.69	≤74	PASS
				Peak	5460.000	-44.73	≤-21.20	50.47	≤74	PASS
11N40SI SO	Ant1	Low	5190	AV	4500.000	-49.82	≤-41.20	45.38	≤54	PASS
				AV	5149.600	-47.89	≤-41.20	47.31	≤54	PASS
				AV	5150.000	-47.89	≤-41.20	47.31	≤54	PASS
				Peak	4500.000	-45.03	≤-21.20	50.17	≤74	PASS
				Peak	4879.400	-38.5	≤-21.20	56.70	≤74	PASS
				Peak	5150.000	-41.27	≤-21.20	53.93	≤74	PASS
		High	5230	AV	5350.000	-48.57	≤-41.20	46.63	≤54	PASS
				AV	5372.120	-48.52	≤-41.20	46.68	≤54	PASS
				AV	5460.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	5350.000	-43.15	≤-21.20	52.05	≤74	PASS
				Peak	5388.760	-39.12	≤-21.20	56.08	≤74	PASS
				Peak	5460.000	-42.34	≤-21.20	52.86	≤74	PASS



11AC20S ISO	Ant1	Low	5180	AV	4500.000	-49.95	≤-41.20	45.25	≤54	PASS
				AV	5149.600	-48.05	≤-41.20	47.15	≤54	PASS
				AV	5150.000	-48.04	≤-41.20	47.16	≤54	PASS
				Peak	4500.000	-45.4	≤-21.20	49.80	≤74	PASS
				Peak	5016.600	-39.16	≤-21.20	56.04	≤74	PASS
				Peak	5150.000	-41.62	≤-21.20	53.58	≤74	PASS
	High	5240	AV	5350.000	-48.53	≤-41.20	46.67	≤54	PASS	
			AV	5352.720	-48.47	≤-41.20	46.73	≤54	PASS	
			AV	5460.000	-48.54	≤-41.20	46.66	≤54	PASS	
			Peak	5350.000	-44.93	≤-21.20	50.27	≤74	PASS	
			Peak	5357.520	-39.83	≤-21.20	55.37	≤74	PASS	
			Peak	5460.000	-42.42	≤-21.20	52.78	≤74	PASS	
11AC40S ISO	Ant1	Low	5190	AV	4500.000	-49.82	≤-41.20	45.38	≤54	PASS
				AV	5149.600	-47.88	≤-41.20	47.32	≤54	PASS
				AV	5150.000	-47.89	≤-41.20	47.31	≤54	PASS
				Peak	4500.000	-42.95	≤-21.20	52.25	≤74	PASS
				Peak	4814.300	-39	≤-21.20	56.20	≤74	PASS
				Peak	5150.000	-42.6	≤-21.20	52.60	≤74	PASS
	High	5230	AV	5350.000	-48.58	≤-41.20	46.62	≤54	PASS	
			AV	5383.560	-48.54	≤-41.20	46.66	≤54	PASS	
			AV	5460.000	-48.6	≤-41.20	46.60	≤54	PASS	
			Peak	5350.000	-45.16	≤-21.20	50.04	≤74	PASS	
			Peak	5422.040	-39.17	≤-21.20	56.03	≤74	PASS	
			Peak	5460.000	-43.47	≤-21.20	51.73	≤74	PASS	
11AC80S ISO	Ant1	Low	5210	AV	4500.000	-49.79	≤-41.20	45.41	≤54	PASS
				AV	5149.500	-47.23	≤-41.20	47.97	≤54	PASS
				AV	5150.000	-47.25	≤-41.20	47.95	≤54	PASS
				Peak	4500.000	-45.37	≤-21.20	49.83	≤74	PASS
				Peak	4915.500	-37.81	≤-21.20	57.39	≤74	PASS
				Peak	5150.000	-41.11	≤-21.20	54.09	≤74	PASS
	High	5210	AV	5350.000	-48.56	≤-41.20	46.64	≤54	PASS	
			AV	5381.880	-48.51	≤-41.20	46.69	≤54	PASS	
			AV	5460.000	-48.55	≤-41.20	46.65	≤54	PASS	
			Peak	5350.000	-42.73	≤-21.20	52.47	≤74	PASS	
			Peak	5441.240	-39.47	≤-21.20	55.73	≤74	PASS	
			Peak	5460.000	-41.43	≤-21.20	53.77	≤74	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.