



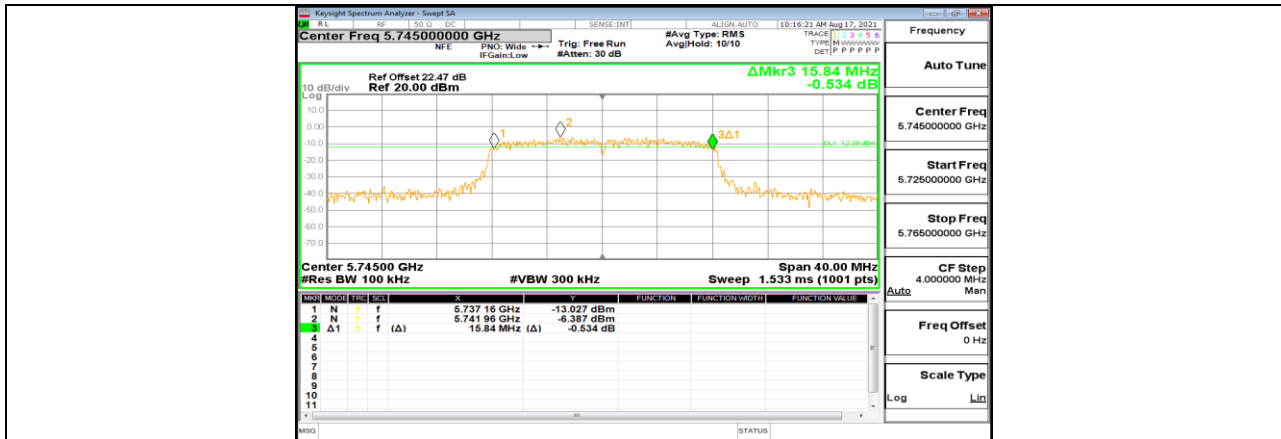
### 12.3. Appendix A3: Minimum Emission Bandwidth

#### 12.3.1. Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5720_UNII-3	2.24	5725	5727.240	0.5	PASS
	Ant2	5720_UNII-3	3	5725	5728.000	0.5	PASS
	Ant1	5745	16.200	5736.880	5753.080	0.5	PASS
	Ant2	5745	15.840	5737.160	5753.000	0.5	PASS
	Ant1	5785	16.040	5777.200	5793.240	0.5	PASS
	Ant2	5785	16.080	5776.880	5792.960	0.5	PASS
	Ant1	5825	16.440	5816.840	5833.280	0.5	PASS
	Ant2	5825	16.400	5816.880	5833.280	0.5	PASS
11N20MIMO	Ant1	5720_UNII-3	3.64	5725	5728.640	0.5	PASS
	Ant2	5720_UNII-3	3.28	5725	5728.280	0.5	PASS
	Ant1	5745	16.680	5736.760	5753.440	0.5	PASS
	Ant2	5745	17.640	5736.240	5753.880	0.5	PASS
	Ant1	5785	17.200	5776.240	5793.440	0.5	PASS
	Ant2	5785	17.000	5776.240	5793.240	0.5	PASS
	Ant1	5825	17.280	5816.240	5833.520	0.5	PASS
	Ant2	5825	17.040	5816.240	5833.280	0.5	PASS
11N40MIMO	Ant1	5710_UNII-3	2.92	5725	5727.920	0.5	PASS
	Ant2	5710_UNII-3	2.68	5725	5727.680	0.5	PASS
	Ant1	5755	35.680	5737.240	5772.920	0.5	PASS
	Ant2	5755	35.120	5737.560	5772.680	0.5	PASS
	Ant1	5795	35.360	5777.080	5812.440	0.5	PASS
	Ant2	5795	34.560	5778.120	5812.680	0.5	PASS
11AC20MIMO	Ant1	5720_UNII-3	3.52	5725	5728.520	0.5	PASS
	Ant2	5720_UNII-3	3.88	5725	5728.880	0.5	PASS
	Ant1	5745	16.640	5736.640	5753.280	0.5	PASS
	Ant2	5745	17.520	5736.400	5753.920	0.5	PASS
	Ant1	5785	17.320	5776.240	5793.560	0.5	PASS
	Ant2	5785	17.600	5776.280	5793.880	0.5	PASS
	Ant1	5825	17.000	5816.640	5833.640	0.5	PASS
	Ant2	5825	17.040	5816.600	5833.640	0.5	PASS
11AC40MIMO	Ant1	5710_UNII-3	2.68	5725	5727.680	0.5	PASS
	Ant2	5710_UNII-3	2.68	5725	5727.680	0.5	PASS
	Ant1	5755	34.960	5737.480	5772.440	0.5	PASS
	Ant2	5755	35.840	5737.480	5773.320	0.5	PASS
	Ant1	5795	36.080	5776.840	5812.920	0.5	PASS
	Ant2	5795	36.160	5777.160	5813.320	0.5	PASS
11AC80MIMO	Ant1	5690_UNII-3	2.76	5725	5727.760	0.5	PASS
	Ant2	5690_UNII-3	2.76	5725	5727.760	0.5	PASS
	Ant1	5775	75.360	5737.400	5812.760	0.5	PASS
	Ant2	5775	75.360	5737.400	5812.760	0.5	PASS

### 12.3.2. Test Graphs

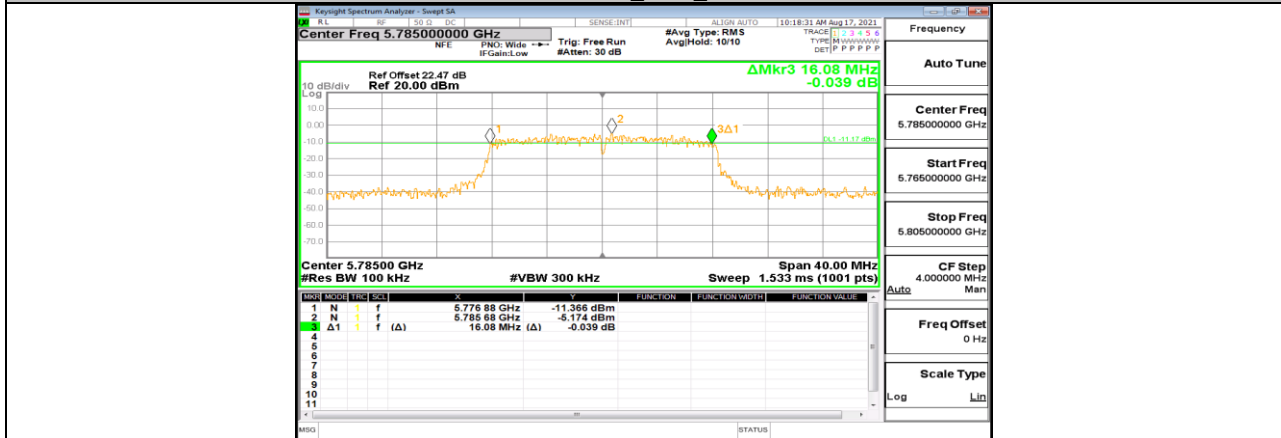




11A-CDD\_Ant2\_5745



11A-CDD\_Ant1\_5785



11A-CDD\_Ant2\_5785



11A-CDD\_Ant1\_5825



11A-CDD\_Ant2\_5825



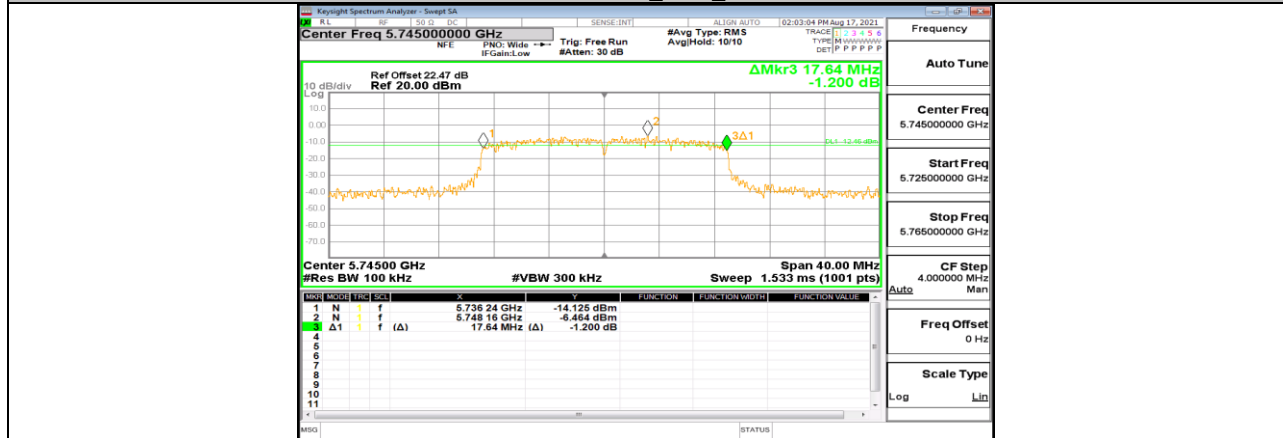
11N20MIMO\_Ant1\_5720\_UNII-3



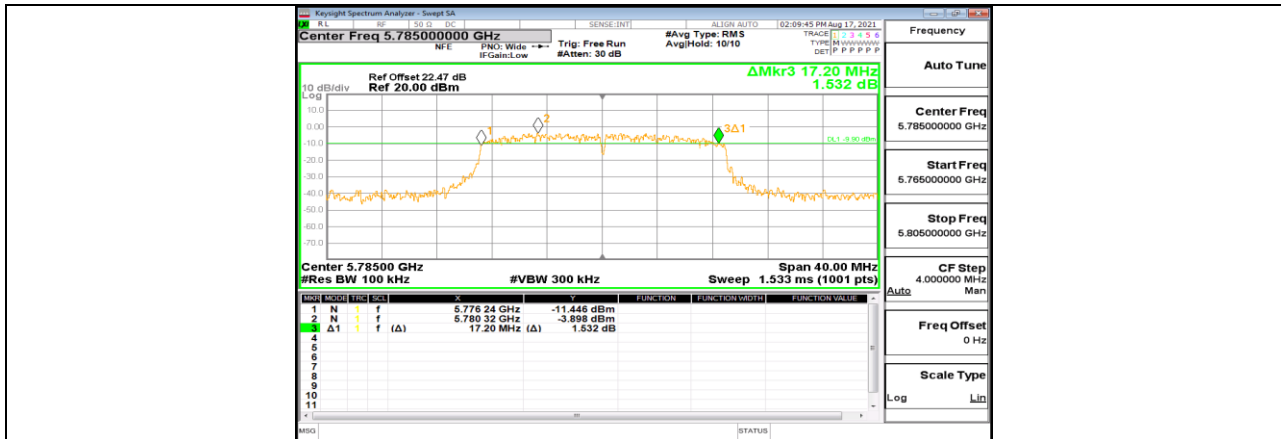
11N20MIMO\_Ant2\_5720\_UNII-3



11N20MIMO\_Ant1\_5745



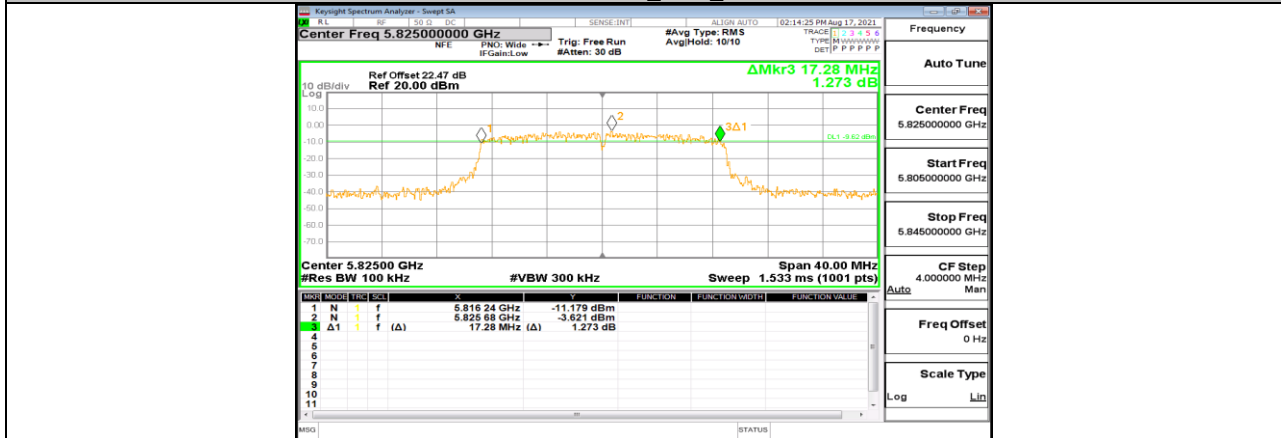
11N20MIMO\_Ant2\_5745



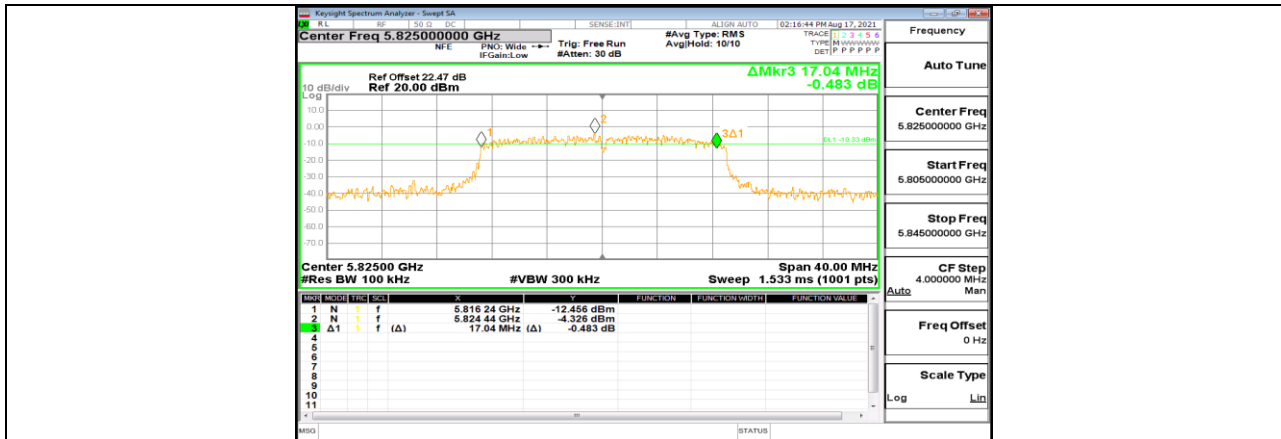
11N20MIMO\_Ant1\_5785



11N20MIMO\_Ant2\_5785



11N20MIMO\_Ant1\_5825



11N20MIMO\_Ant2\_5825

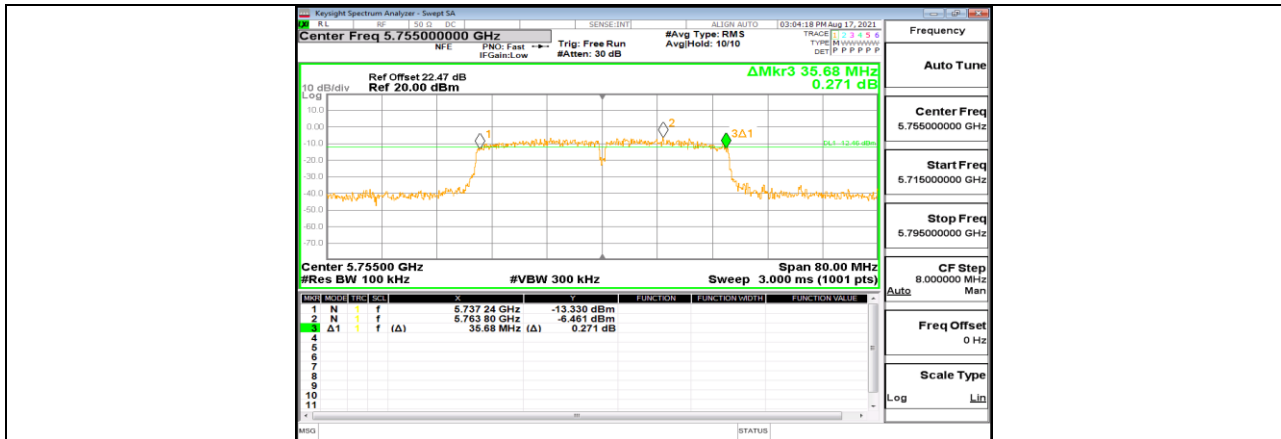


11N40MIMO\_Ant1\_5710\_UNII-3

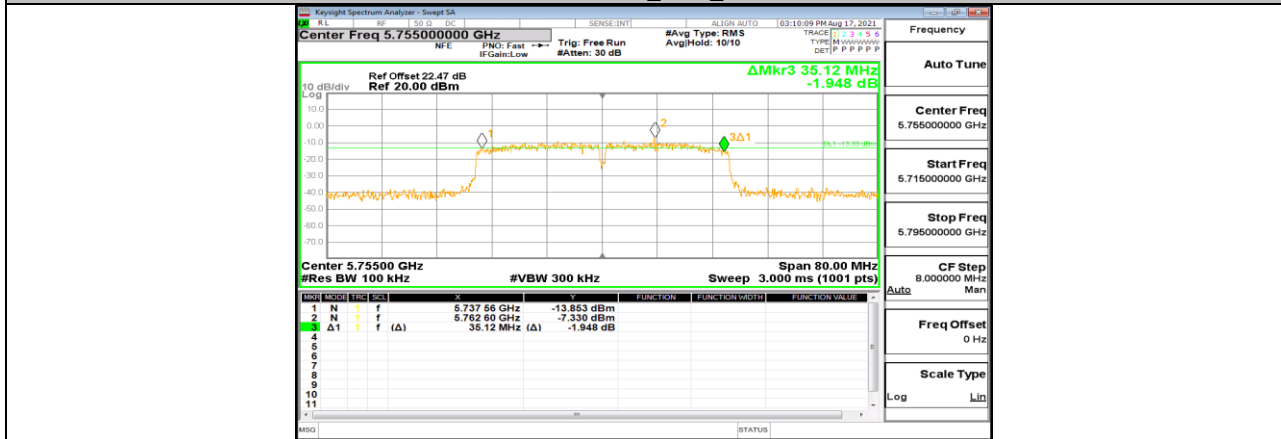


11N40MIMO\_Ant2\_5710\_UNII-3

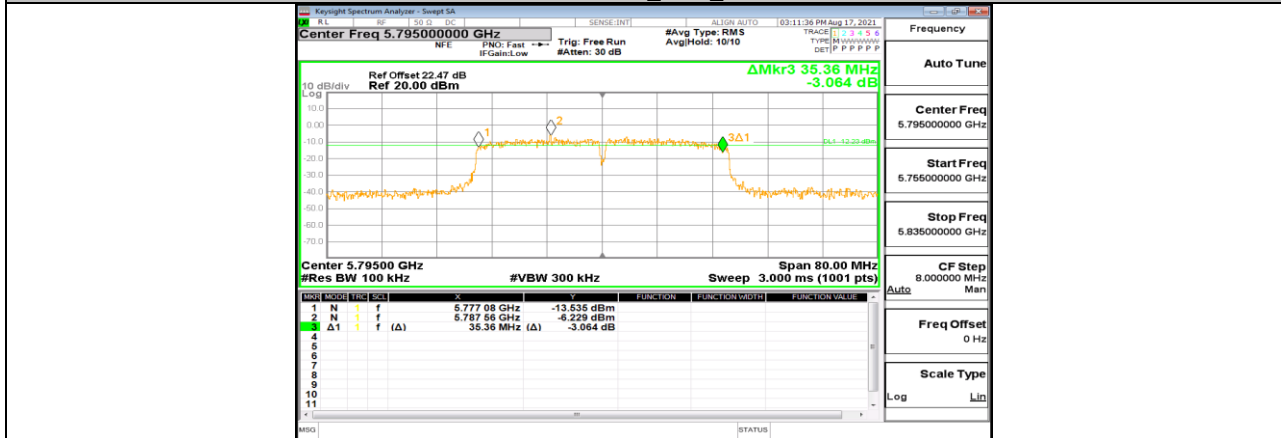




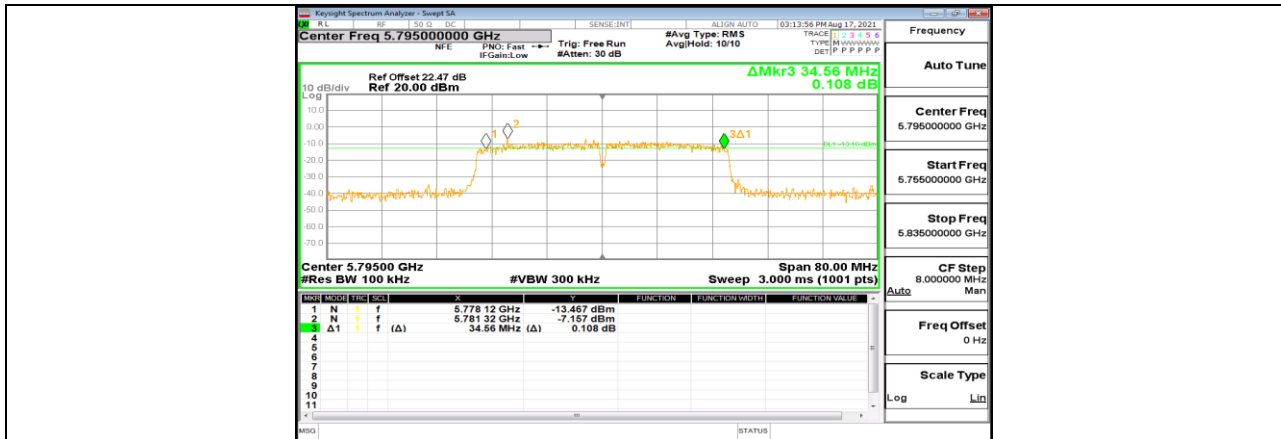
11N40MIMO\_Ant1\_5755



11N40MIMO\_Ant2\_5755



11N40MIMO\_Ant1\_5795



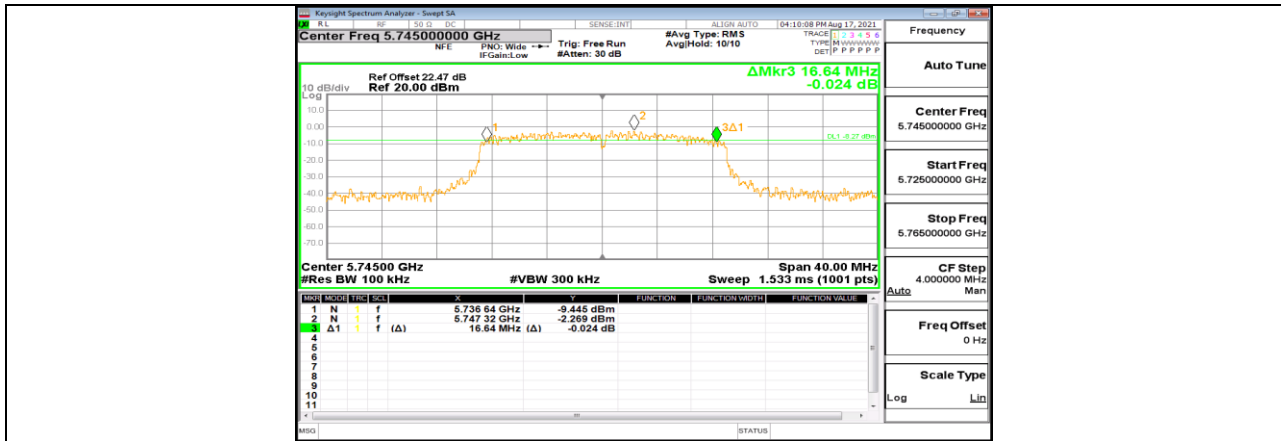
11N40MIMO\_Ant2\_5795



11AC20MIMO\_Ant1\_5720\_UNII-3



11AC20MIMO\_Ant2\_5720\_UNII-3



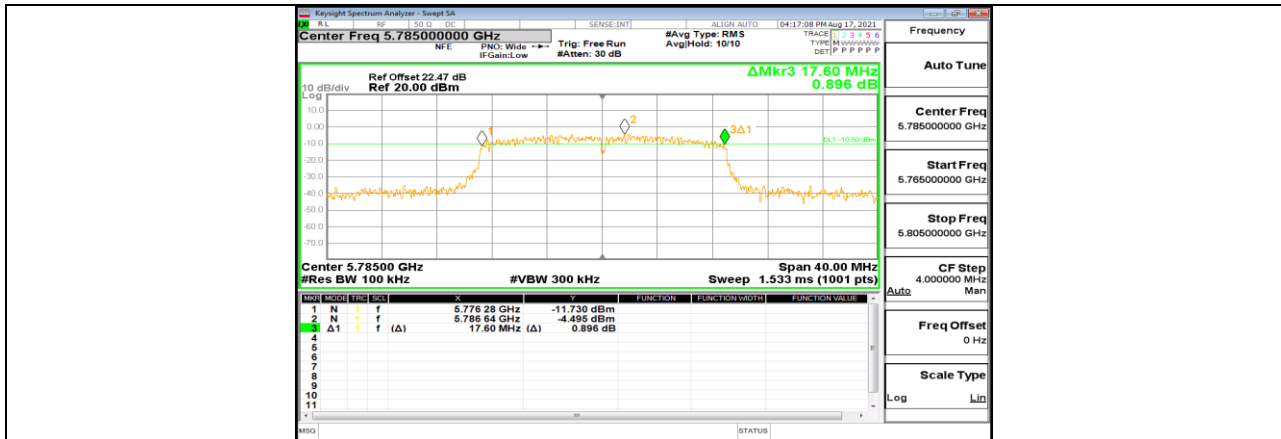
11AC20MIMO\_Ant1\_5745



11AC20MIMO\_Ant2\_5745



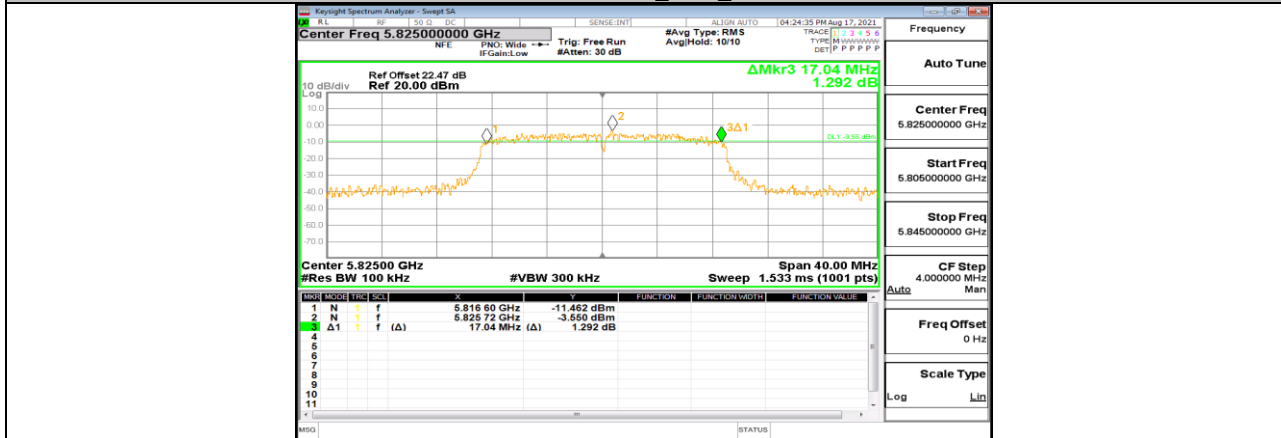
11AC20MIMO\_Ant1\_5785



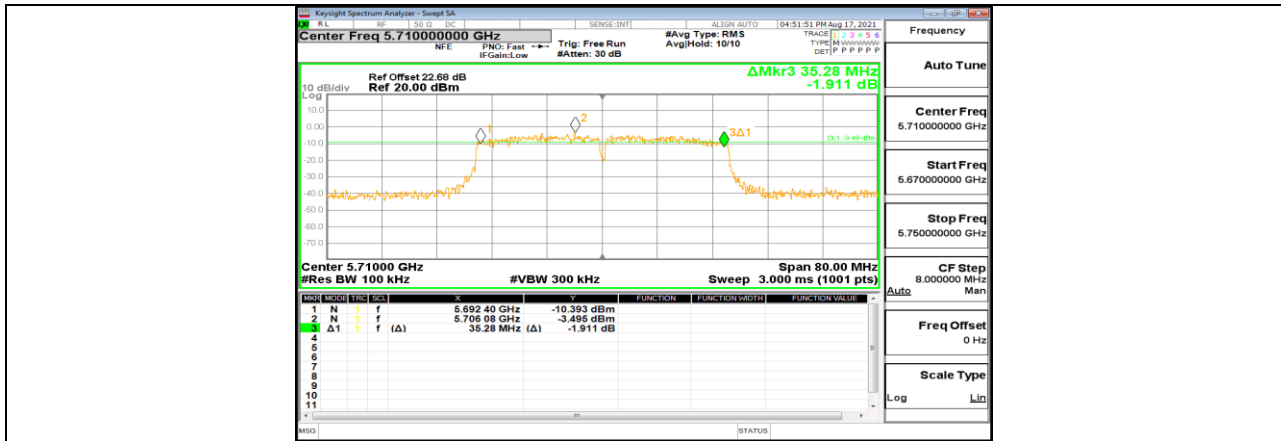
11AC20MIMO\_Ant2\_5785



11AC20MIMO\_Ant1\_5825



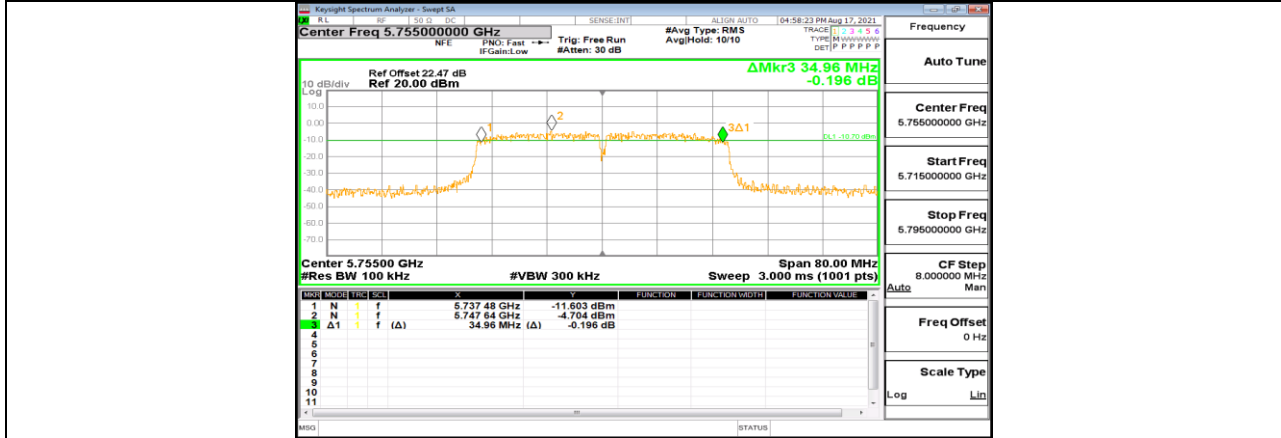
11AC20MIMO\_Ant2\_5825



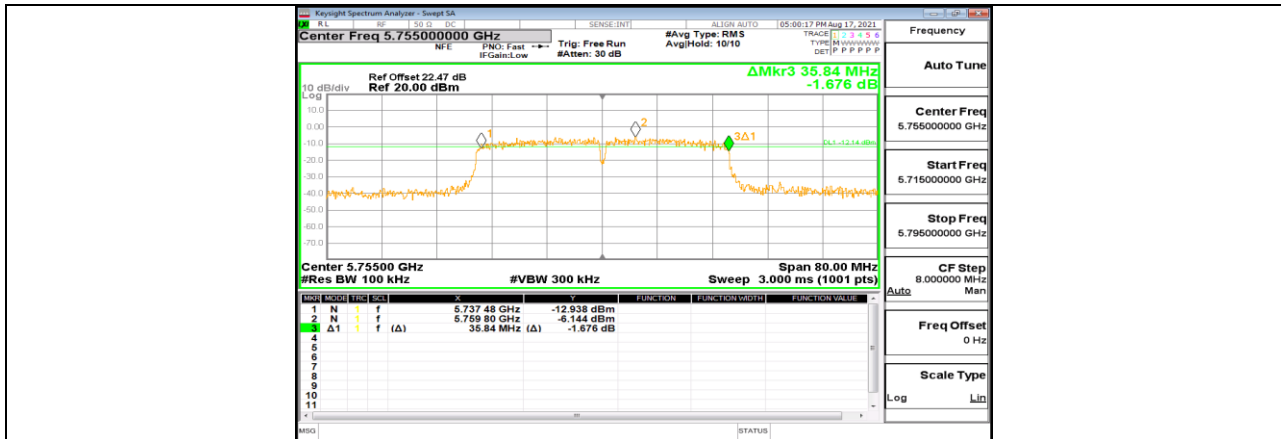
11AC40MIMO\_Ant1\_5710\_UNII-3



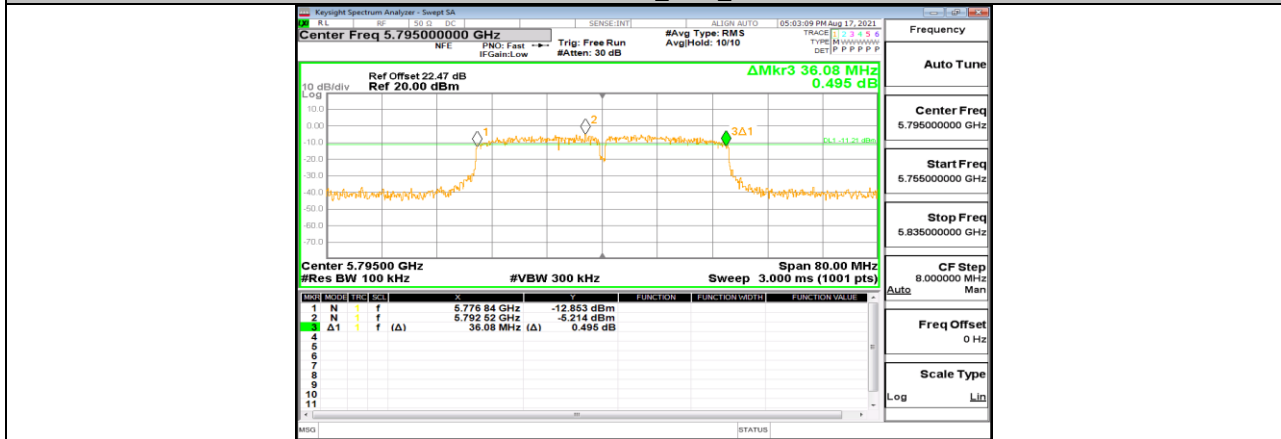
11AC40MIMO\_Ant2\_5710\_UNII-3



11AC40MIMO\_Ant1\_5755



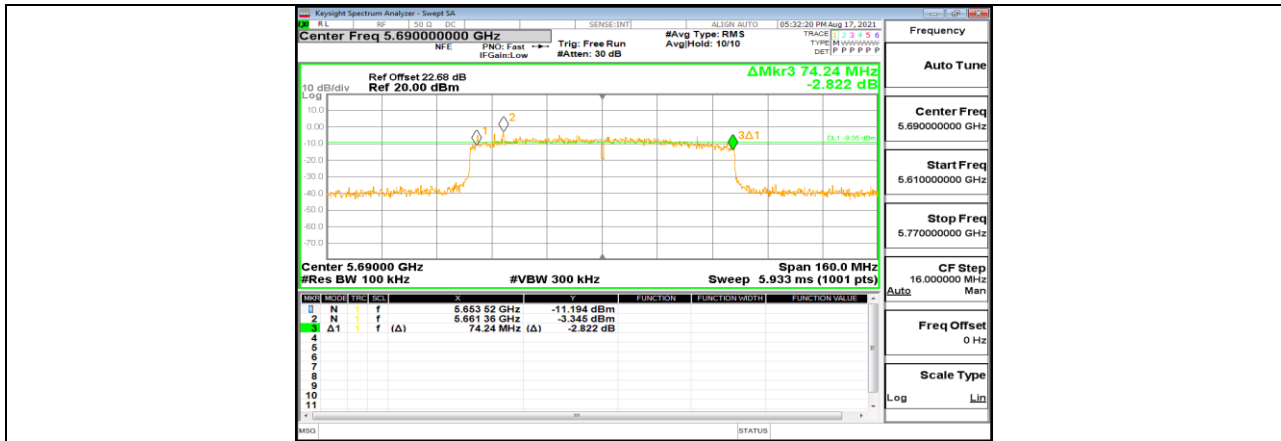
11AC40MIMO\_Ant2\_5755



11AC40MIMO\_Ant1\_5795



11AC40MIMO\_Ant2\_5795



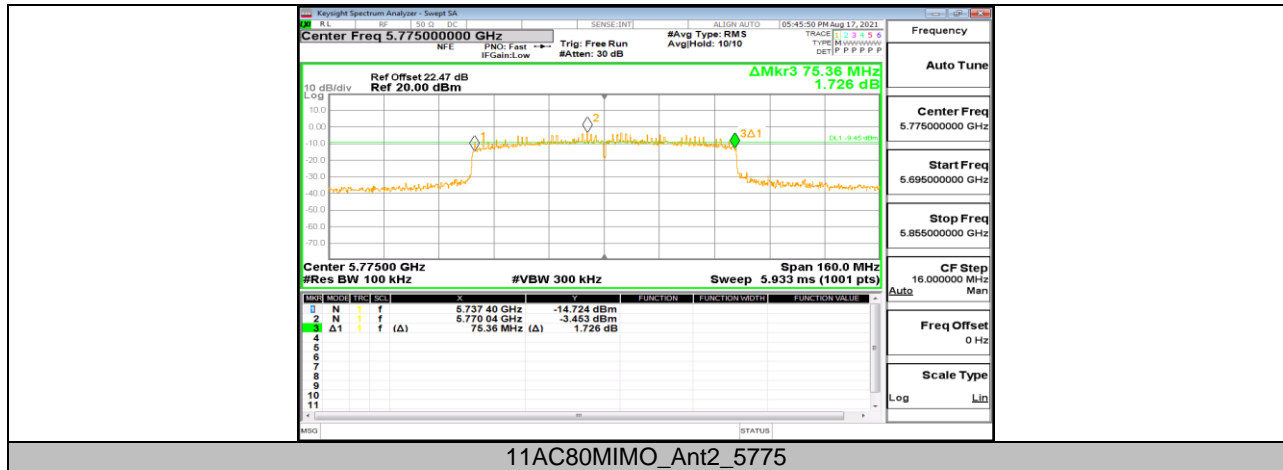
11AC80MIMO\_Ant1\_5690\_UNII-3



11AC80MIMO\_Ant2\_5690\_UNII-3



11AC80MIMO\_Ant1\_5775



11AC80MIMO\_Ant2\_5775





## 12.4. Appendix B: Maximum Average Conducted Output Power

### 12.4.1. Test Result

Mode	Frequency (MHz)	Average Power (dBm)			Gain (dBi)	FCC Limit (dBm)	ISED EIRP (dBm)	ISED Limit (dBm)	Verdict
		ANT1	ANT2	Total			Total		
802.11 a	5180	12.60	9.24	14.25	3	24.00	17.25	22.21	Pass
	5200	12.11	9.57	14.03	3	24.00	17.03	22.21	Pass
	5240	11.70	10.20	14.02	3	24.00	17.02	22.21	Pass
	5260	11.55	10.62	14.12	3	24.00	/	23.21	Pass
	5280	11.07	9.34	13.30	3	24.00	/	23.21	Pass
	5320	9.91	9.02	12.50	3	24.00	/	23.21	Pass
	5500	11.84	11.74	14.80	3	24.00	/	23.21	Pass
	5580	12.48	8.77	14.02	3	24.00	/	23.21	Pass
	5700	11.79	8.15	13.35	3	24.00	/	23.21	Pass
	5720-2c	10.30	6.74	11.89	3	25.00	/	23.21	Pass
	5720-3	3.38	-0.15	4.97	3	29.00	/	24.00	Pass
	5745	10.66	8.27	12.64	3	30.00	/	30.00	Pass
	5785	10.51	9.28	12.95	3	30.00	/	30.00	Pass
	5825	9.85	9.46	12.67	3	30.00	/	30.00	Pass
802.11n HT20	5180	12.49	9.19	14.16	3	24.00	17.16	22.50	Pass
	5200	12.43	9.41	14.19	3	24.00	17.19	22.50	Pass
	5240	11.57	9.98	13.86	3	24.00	16.86	22.50	Pass
	5260	12.63	11.09	14.94	3	24.00	/	23.50	Pass
	5280	12.27	10.21	14.37	3	24.00	/	23.50	Pass
	5320	11.20	9.94	13.63	3	24.00	/	23.50	Pass
	5500	12.99	13.01	16.01	3	24.00	/	23.50	Pass
	5580	13.69	10.11	15.27	3	24.00	/	23.50	Pass
	5700	13.01	9.46	14.60	3	24.00	/	23.50	Pass
	5720-2c	11.39	9.14	13.42	3	25.00	/	23.50	Pass
	5720-3	4.90	2.55	6.89	3	29.00	/	24.00	Pass
	5745	10.88	8.28	12.78	3	30.00	/	30.00	Pass
	5785	11.12	9.86	13.55	3	30.00	/	30.00	Pass
	5825	10.85	9.81	13.37	3	30.00	/	30.00	Pass
802.11n HT40	5190	12.09	9.82	14.11	3	24.00	17.11	23.00	Pass
	5230	12.33	10.34	14.46	3	24.00	17.46	23.00	Pass
	5270	11.54	10.45	14.04	3	24.00	/	24.00	Pass
	5310	10.67	9.15	12.99	3	24.00	/	24.00	Pass



	5510	11.92	11.78	14.86	3	24.00	/	24.00	Pass
	5550	12.59	10.25	14.59	3	24.00	/	24.00	Pass
	5670	12.32	7.96	13.68	3	24.00	/	24.00	Pass
	5710-2c	11.49	8.25	13.18	3	25.00	/	24.00	Pass
	5710-3	-1.21	-4.21	0.55	3	29.00	/	24.00	Pass
	5755	11.39	8.96	13.35	3	30.00	/	30.00	Pass
	5795	10.68	9.51	13.14	3	30.00	/	30.00	Pass
802.11ac VHT20	5180	12.59	9.69	14.39	3	24.00	17.39	22.50	Pass
	5200	12.43	9.84	14.34	3	24.00	17.34	22.50	Pass
	5240	11.88	10.23	14.14	3	24.00	17.14	22.50	Pass
	5260	12.81	11.20	15.09	3	24.00	/	23.50	Pass
	5280	12.31	10.18	14.38	3	24.00	/	23.50	Pass
	5320	11.13	9.92	13.58	3	24.00	/	23.50	Pass
	5500	13.03	13.12	16.09	3	24.00	/	23.50	Pass
	5580	13.64	10.14	15.24	3	24.00	/	23.50	Pass
	5700	12.90	10.42	14.84	3	24.00	/	23.50	Pass
	5720-2c	11.49	9.10	13.47	3	25.00	/	23.50	Pass
	5720-3	4.77	2.48	6.78	3	29.00	/	24.00	Pass
	5745	12.04	10.40	14.31	3	30.00	/	30.00	Pass
	5785	11.70	10.43	14.12	3	30.00	/	30.00	Pass
	5825	11.17	10.51	13.86	3	30.00	/	30.00	Pass
802.11ac VHT40	5190	15.16	12.26	16.96	3	24.00	19.96	23.00	Pass
	5230	14.38	12.48	16.54	3	24.00	19.54	23.00	Pass
	5270	13.77	12.07	16.01	3	24.00	/	24.00	Pass
	5310	13.07	11.76	15.47	3	24.00	/	24.00	Pass
	5510	13.49	13.62	16.57	3	24.00	/	24.00	Pass
	5550	14.63	12.46	16.69	3	24.00	/	24.00	Pass
	5670	13.85	11.36	15.79	3	24.00	/	24.00	Pass
	5710-2c	13.49	11.12	15.48	3	25.00	/	24.00	Pass
	5710-3	0.59	-1.23	2.78	3	29.00	/	24.00	Pass
	5755	13.12	11.79	15.52	3	30.00	/	30.00	Pass
	5795	12.83	12.02	15.45	3	30.00	/	30.00	Pass
802.11ac VHT80	5210	15.01	12.57	16.97	3	24.00	19.97	23.00	Pass
	5290	14.17	12.74	16.52	3	24.00	/	24.00	Pass
	5530	15.71	14.35	18.09	3	24.00	/	24.00	Pass
	5610	15.37	12.40	17.14	3	24.00	/	24.00	Pass
	5690-2c	14.84	12.50	16.84	3	25.00	/	24.00	Pass
	5690-3	-2.76	-4.37	-0.48	3	29.00	/	24.00	Pass
	5775	14.00	12.44	16.30	3	30.00	/	30.00	Pass

Note: The Duty Cycle Factor had already compensated in the test result.



## 12.5. Appendix C: Maximum Power Spectral Density

### 12.5.1. Test Result

Mode	Frequency (MHz)	PSD			Directional gain (dBi)	PSD EIRP	ISED Limit 5150-5725 MHz (dBm/MHz) 5725-5850 MHz (dBm/500kHz)	FCC Limit 5150-5725 MHz (dBm/MHz) 5725-5850 MHz (dBm/500kHz)
		5150-5725 MHz (dBm/MHz)		5725-5850MHz (dBm/500kHz)				
		ANT1	ANT2	Total		Total		
802.11a	5180	1.93	-1.15	3.67	6.01	9.678	10.00	11.00
	5200	1.33	-1.19	3.26	6.01	9.271	10.00	11.00
	5240	1.20	-0.29	3.53	6.01	9.539	10.00	11.00
	5260	1.01	0.24	3.65	6.01	/	11.00	11.00
	5280	0.23	-1.36	2.52	6.01	/	11.00	11.00
	5320	-0.40	-1.69	2.01	6.01	/	11.00	11.00
	5500	0.94	1.24	4.10	6.01	/	11.00	11.00
	5580	1.97	-1.81	3.49	6.01	/	11.00	11.00
	5700	1.28	-2.60	2.77	6.01	/	11.00	11.00
	5720-2c	0.78	-2.92	2.32	6.01	/	12.00	12.00
	5720-3	-3.20	-6.65	-1.58	6.01	/	29.00	29.00
	5745	-2.48	-4.98	-0.54	6.01	/	30.00	30.00
	5785	-3.00	-3.86	-0.40	6.01	/	30.00	30.00
	5825	-3.49	-3.90	-0.68	6.01	/	30.00	30.00
802.11n HT20	5180	1.71	-1.37	3.45	6.01	9.46	10.00	11.00
	5200	1.43	-0.97	3.40	6.01	9.41	10.00	11.00
	5240	1.08	-0.47	3.38	6.01	9.39	10.00	11.00
	5260	2.18	0.07	4.26	6.01	/	11.00	11.00
	5280	1.47	-0.73	3.52	6.01	/	11.00	11.00
	5320	0.41	-0.91	2.81	6.01	/	11.00	11.00
	5500	2.34	2.22	5.29	6.01	/	11.00	11.00
	5580	3.17	-0.41	4.75	6.01	/	11.00	11.00
	5700	2.21	-1.27	3.82	6.01	/	11.00	11.00
	5720-2c	1.88	-0.70	3.8	6.01	/	12.00	12.00
	5720-3	-2.04	-0.42	1.86	6.01	/	29.00	29.00
	5745	-2.62	-5.42	-0.79	6.01	/	30.00	30.00
	5785	-2.26	-3.57	0.15	6.01	/	30.00	30.00
	5825	-2.77	-3.62	-0.16	6.01	/	30.00	30.00
802.11n HT40	5190	-1.45	-3.78	0.55	6.01	6.56	10.00	11.00
	5230	-1.25	-3.14	0.92	6.01	6.93	10.00	11.00
	5270	-1.87	-3.34	0.47	6.01	/	11.00	11.00
	5310	-3.02	-4.66	-0.75	6.01	/	11.00	11.00
	5510	-1.99	-1.99	1.02	6.01	/	11.00	11.00
	5550	-0.93	-3.05	1.15	6.01	/	11.00	11.00

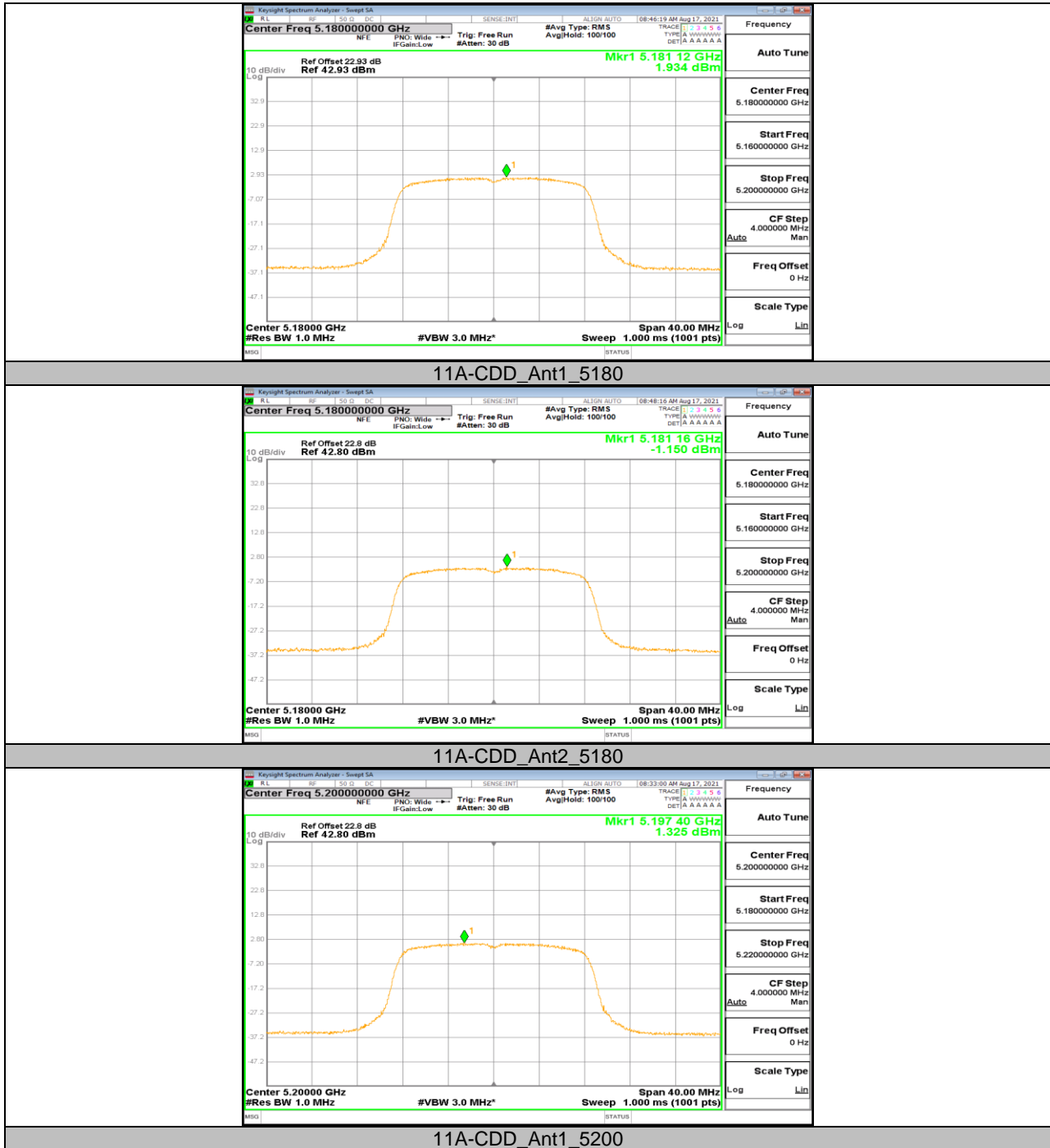


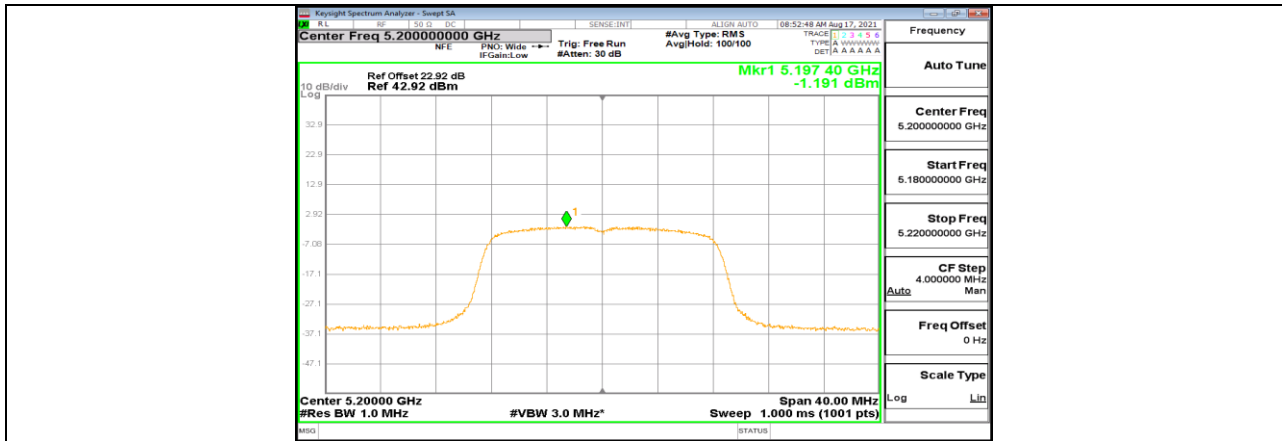
	5670	-1.41	-5.69	-0.03	6.01	/	11.00	11.00
	5710-2c	-1.94	-5.54	-0.37	6.01	/	12.00	12.00
	5710-3	-7.70	-10.66	-5.92	6.01	/	29.00	29.00
	5755	-5.34	-7.99	-3.46	6.01	/	30.00	30.00
	5795	-5.88	-7.19	-3.48	6.01	/	30.00	30.00
802.11ac HT20	5180	1.76	-1.11	3.57	6.01	9.58	10.00	11.00
	5200	1.45	-1.19	3.34	6.01	9.35	10.00	11.00
	5240	1.17	-0.66	3.36	6.01	9.37	10.00	11.00
	5260	2.02	0.49	4.33	6.01	/	11.00	11.00
	5280	1.88	-0.68	3.80	6.01	/	11.00	11.00
	5320	0.29	-0.88	2.76	6.01	/	11.00	11.00
	5500	2.14	2.58	5.38	6.01	/	11.00	11.00
	5580	2.85	-0.54	4.49	6.01	/	11.00	11.00
	5700	2.03	-0.22	4.06	6.01	/	11.00	11.00
	5720-2c	1.48	-0.46	3.63	6.01	/	12.00	12.00
	5720-3	-1.78	-3.96	0.276	6.01	/	29.00	29.00
	5745	-1.55	-3.28	0.68	6.01	/	30.00	30.00
	5785	-2.12	-2.96	0.49	6.01	/	30.00	30.00
5825	-2.54	-3.06	0.22	6.01	/	30.00	30.00	
802.11ac HT40	5190	1.44	-1.32	3.29	6.01	9.30	10.00	11.00
	5230	1.09	-0.89	3.22	6.01	9.23	10.00	11.00
	5270	-0.03	-1.59	2.27	6.01	/	11.00	11.00
	5310	-0.74	-2.04	1.67	6.01	/	11.00	11.00
	5510	0.00	-0.25	2.89	6.01	/	11.00	11.00
	5550	0.73	-1.33	2.83	6.01	/	11.00	11.00
	5670	0.14	-2.86	1.90	6.01	/	11.00	11.00
	5710-2c	-0.27	-2.45	1.79	6.01	/	12.00	12.00
	5710-3	-5.56	-7.20	-3.29	6.01	/	29.00	29.00
	5755	-3.36	-5.04	-1.11	6.01	/	30.00	30.00
5795	-3.79	-4.65	-1.19	6.01	/	30.00	30.00	
802.11ac HT80	5210	-0.63	-3.57	1.15	6.01	7.17	10.00	11.00
	5290	-2.30	-4.48	-0.24	6.01	/	11.00	11.00
	5530	-1.43	-2.22	1.20	6.01	/	11.00	11.00
	5610	-1.27	-3.95	0.60	6.01	/	11.00	11.00
	5690-2c	-1.95	-4.48	-0.02	6.01	/	12.00	12.00
	5690-3	-9.12	-11.44	-7.12	6.01	/	29.00	29.00
	5775	-5.29	-7.06	-3.08	6.01	/	30.00	30.00

Note : 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725 ~ 5.85 GHz.  
2.The Duty Cycle Factor and RBW Factor is compensated in the test result.

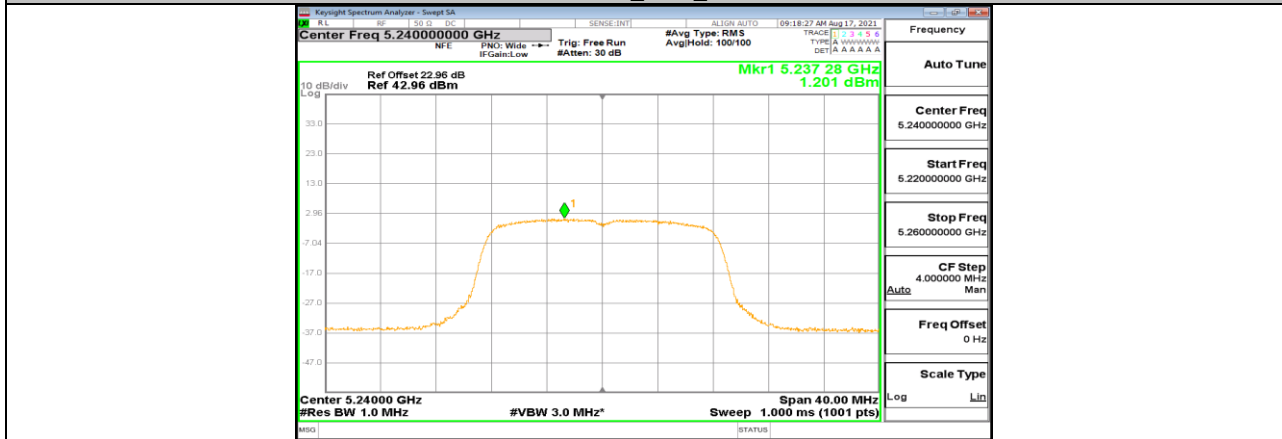


### 12.5.2. Test Graphs

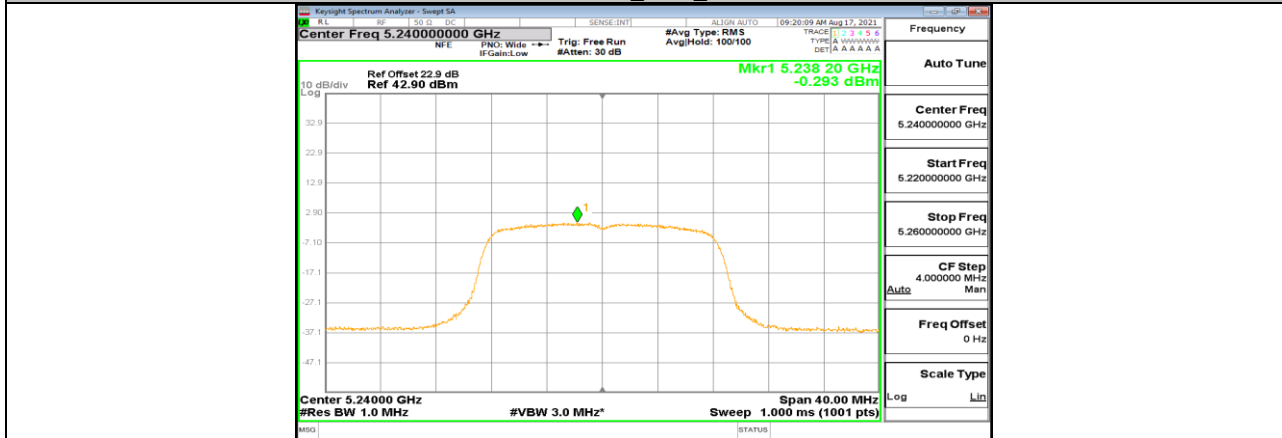




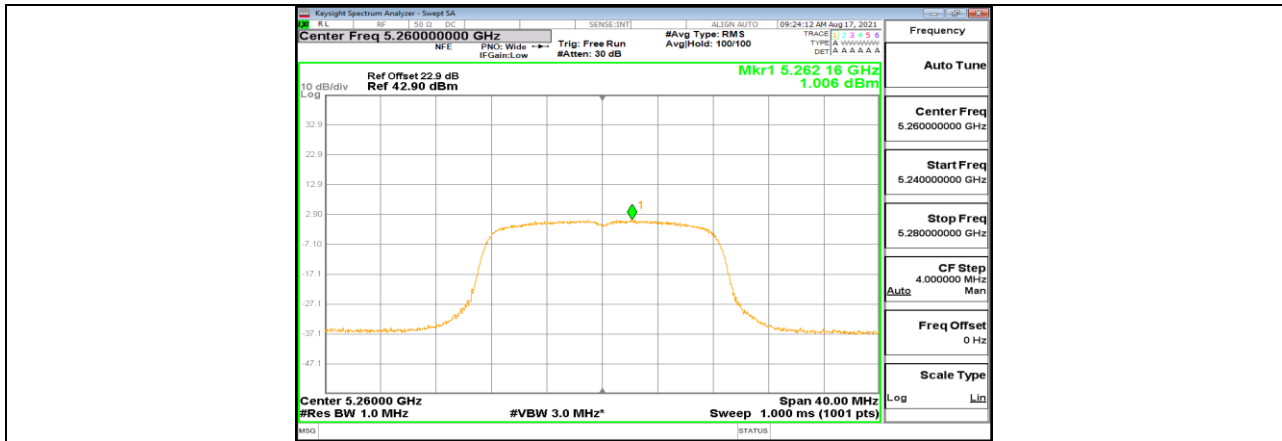
11A-CDD\_Ant2\_5200



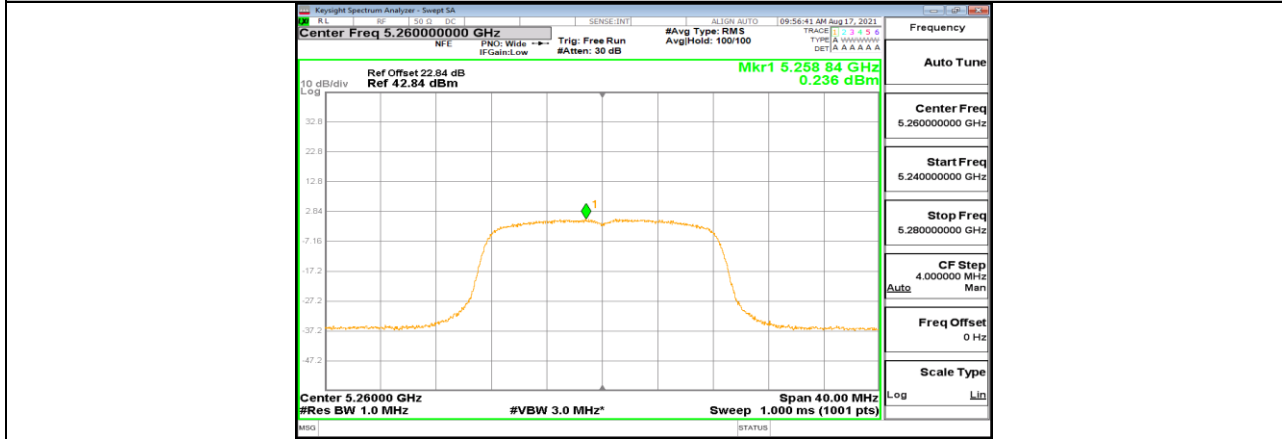
11A-CDD\_Ant1\_5240



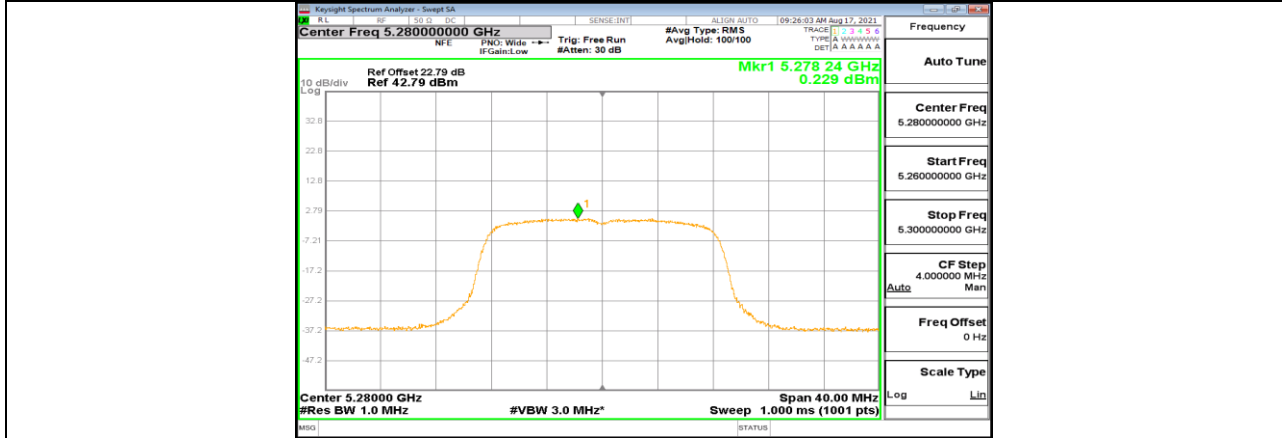
11A-CDD\_Ant2\_5240



11A-CDD\_Ant1\_5260



11A-CDD\_Ant2\_5260



11A-CDD\_Ant1\_5280