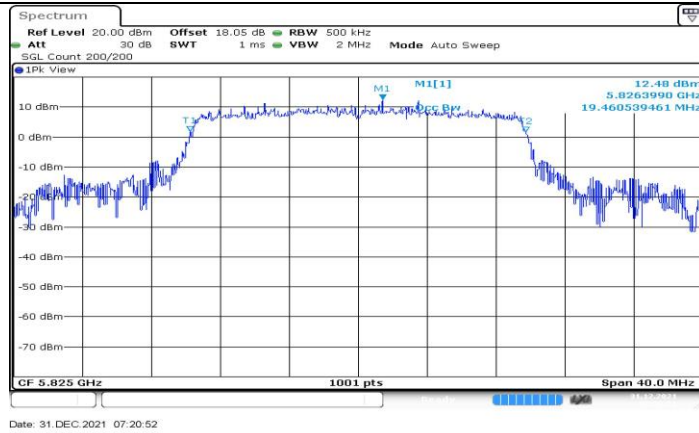




11AX20MIMO Ant1 5825



11AX20MIMO Ant2 5825



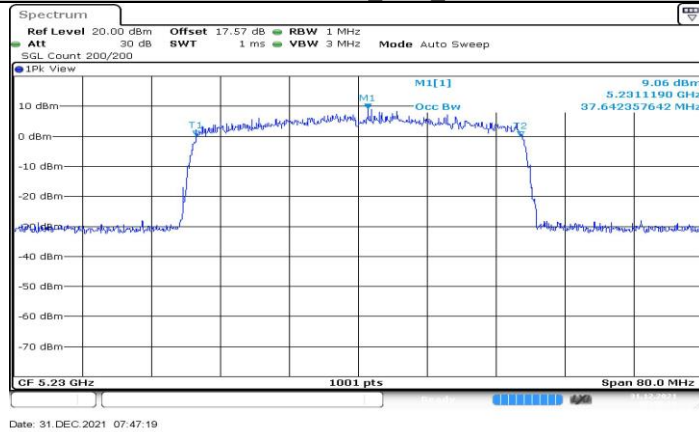
11AX40MIMO_Ant1_5190



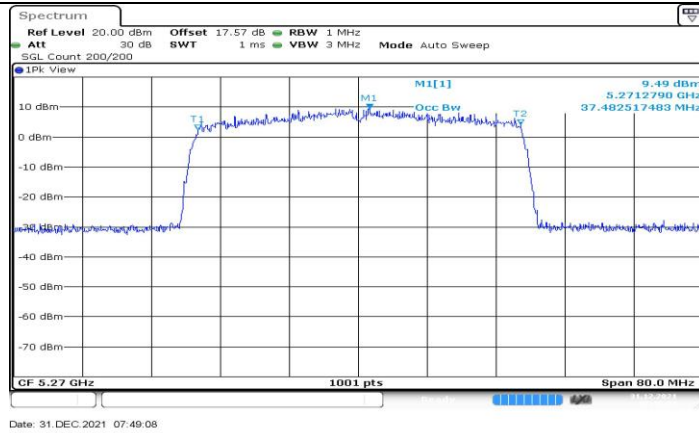
11AX40MIMO Ant2 5190



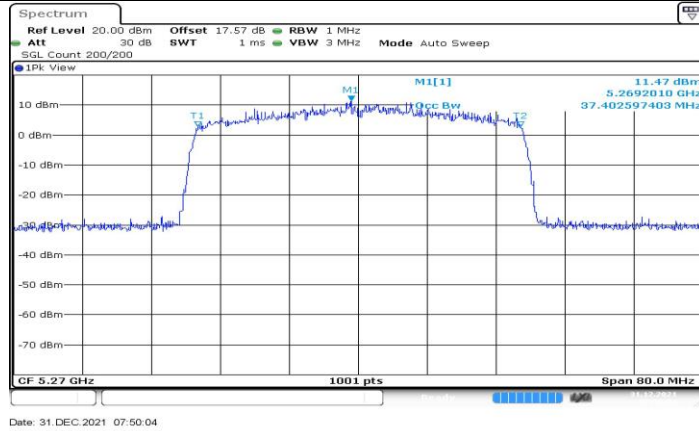
11AX40MIMO Ant1 5230



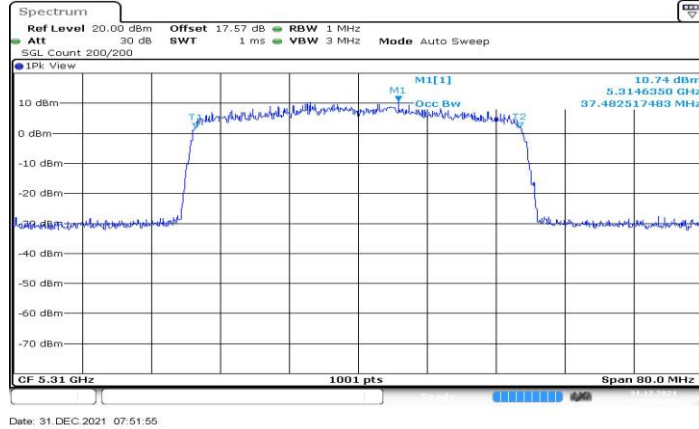
11AX40MIMO Ant2 5230



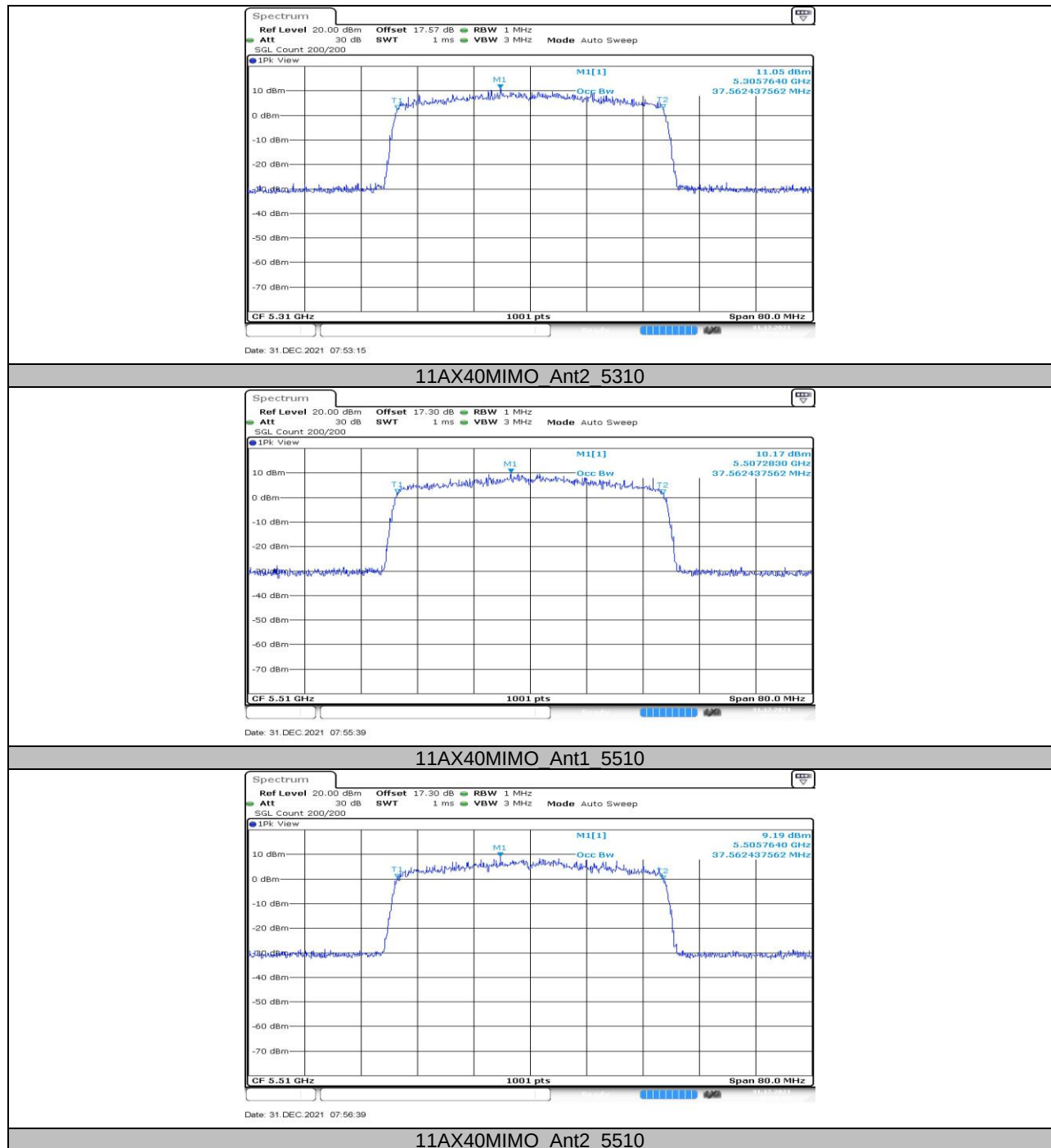
11AX40MIMO Ant1 5270

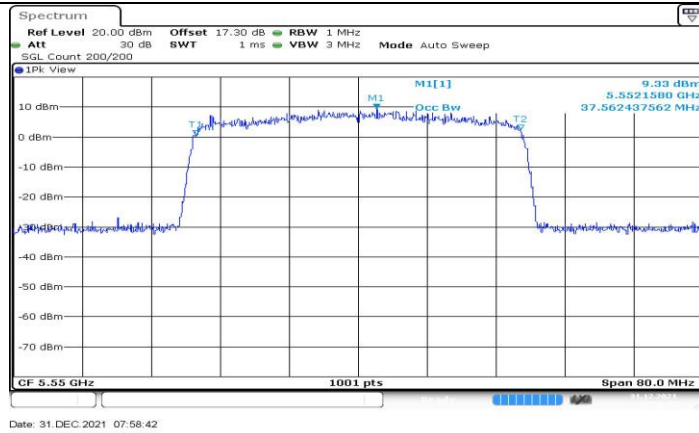


11AX40MIMO Ant2 5270



11AX40MIMO Ant1 5310





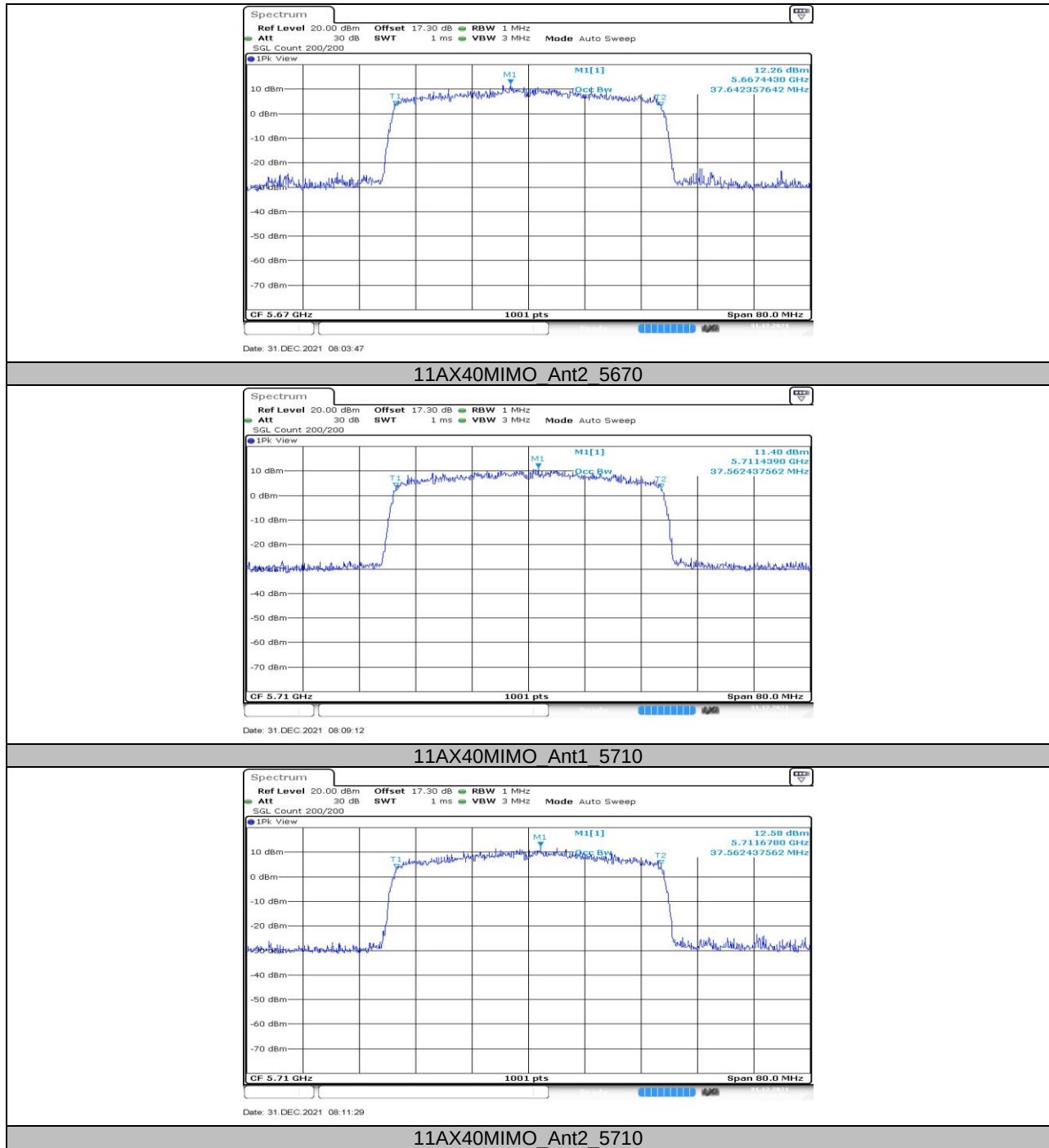
11AX40MIMO Ant1 5550

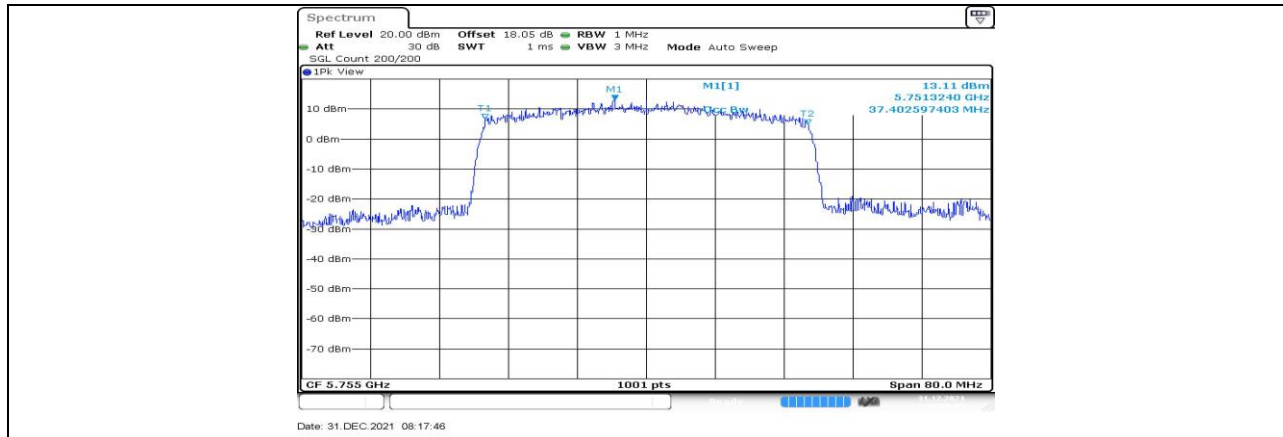


11AX40MIMO Ant2 5550

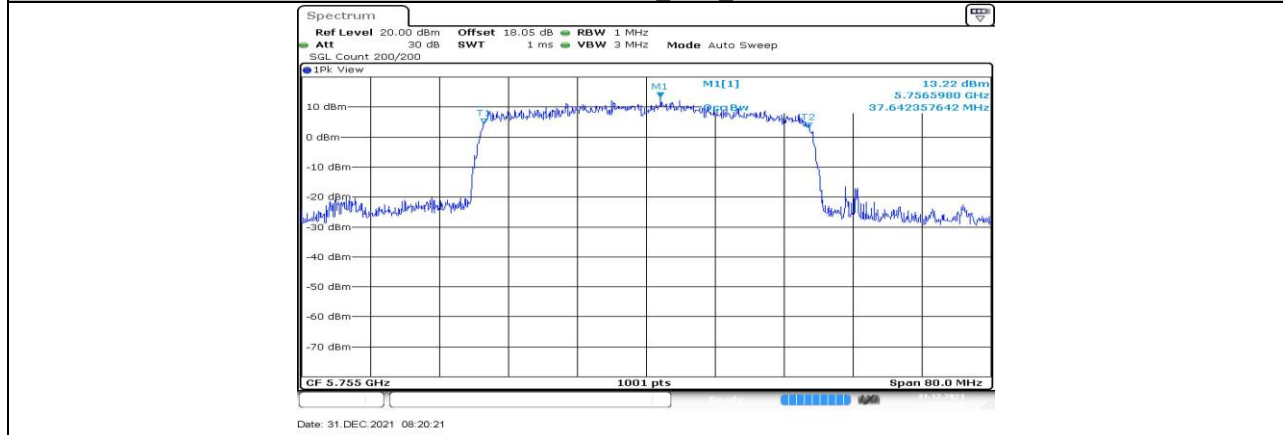


11AX40MIMO Ant1 5670

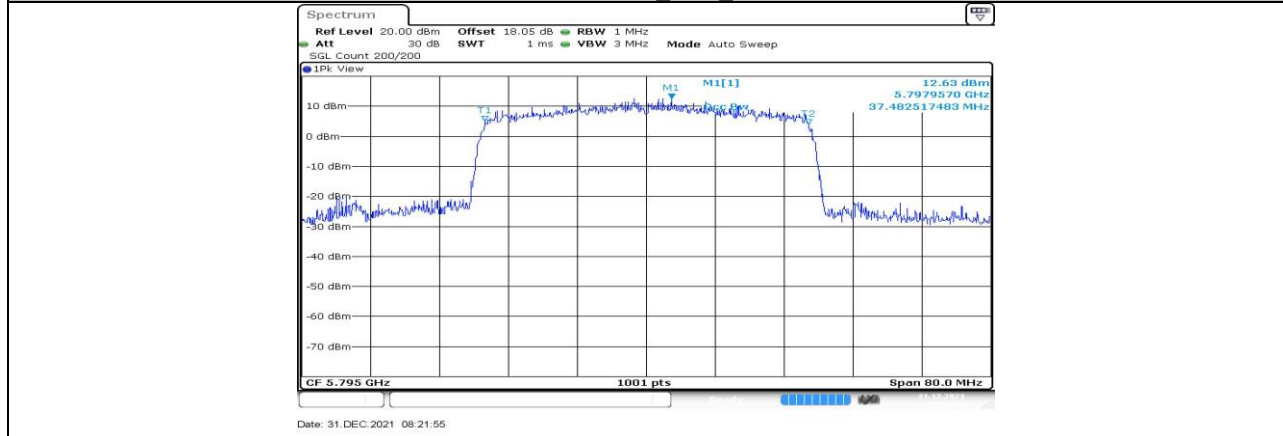




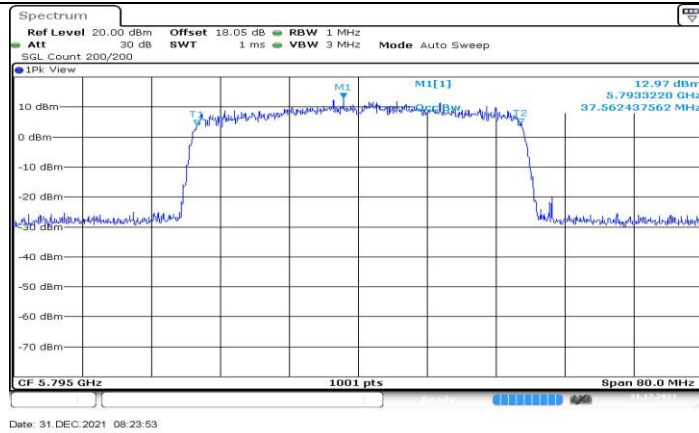
11AX40MIMO Ant1 5755



11AX40MIMO Ant2 5755



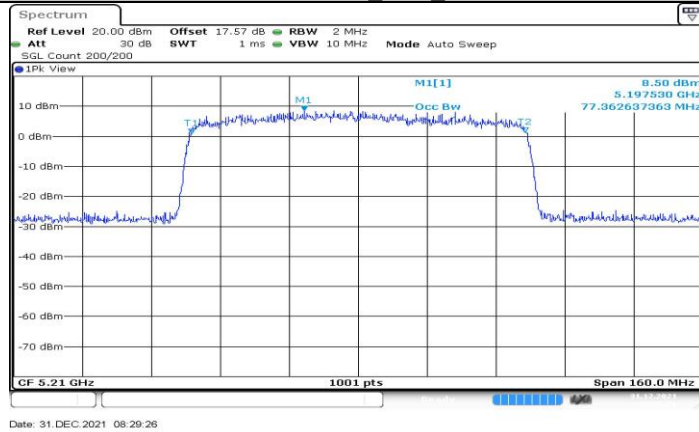
11AX40MIMO Ant1 5795



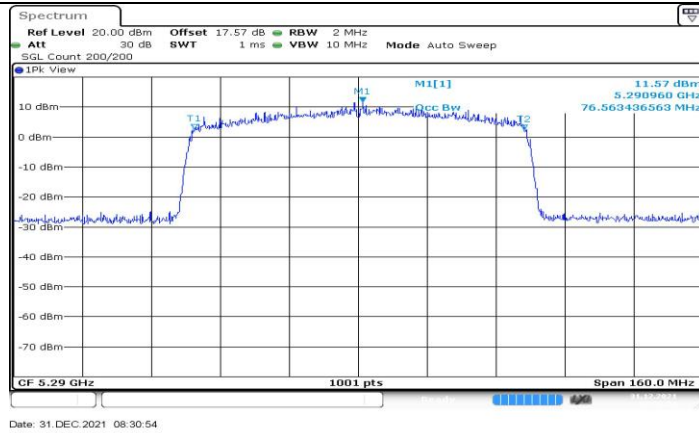
11AX40MIMO Ant2 5795



11AX80MIMO Ant1 5210



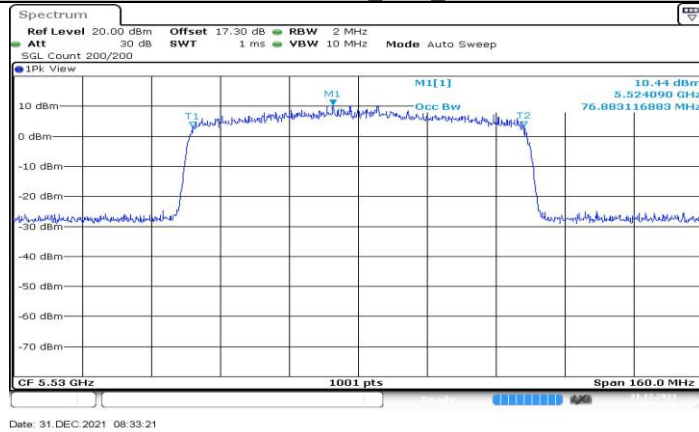
11AX80MIMO Ant2 5210



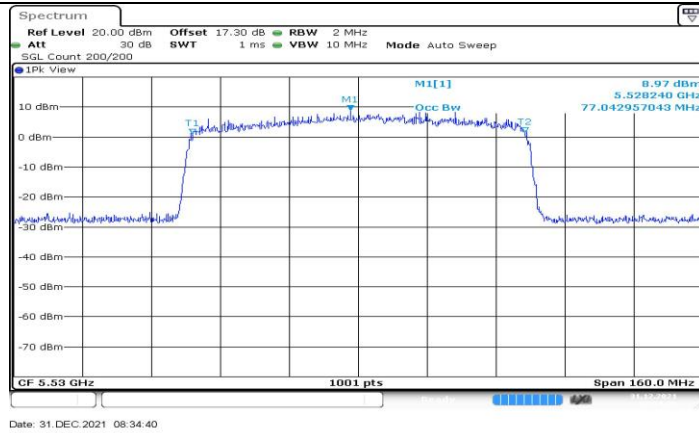
11AX80MIMO Ant1 5290



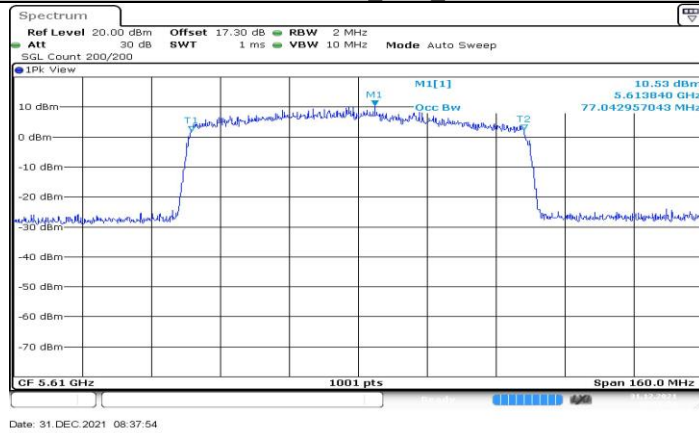
11AX80MIMO Ant2 5290



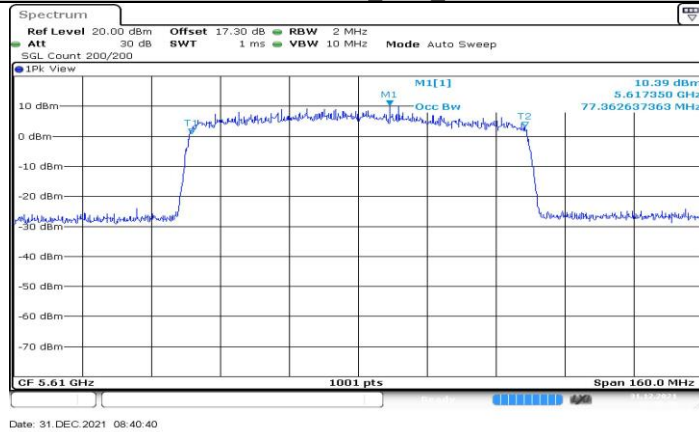
11AX80MIMO Ant1 5530



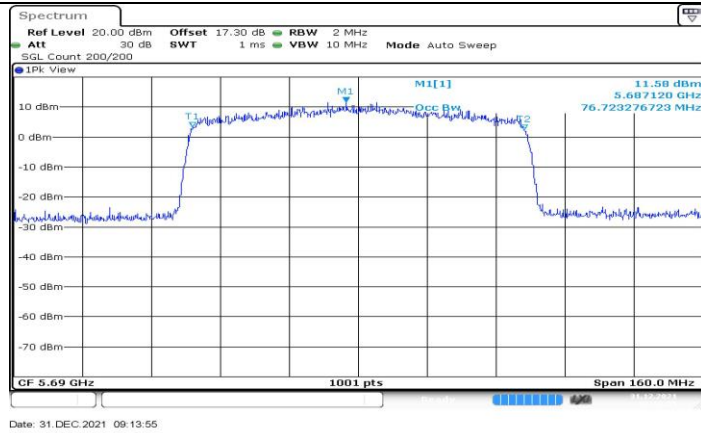
11AX80MIMO Ant2 5530



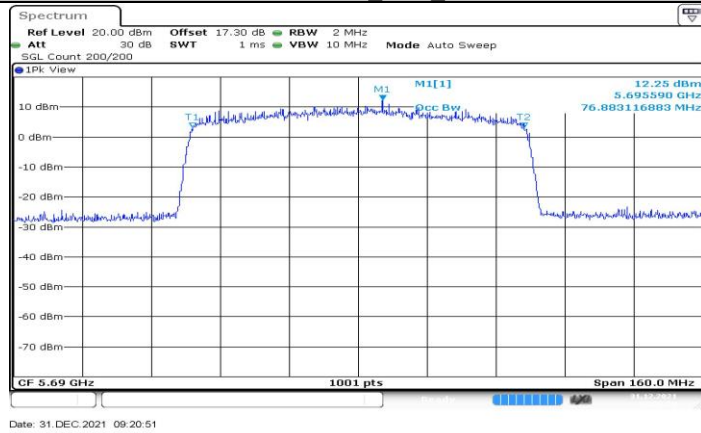
11AX80MIMO Ant1 5610



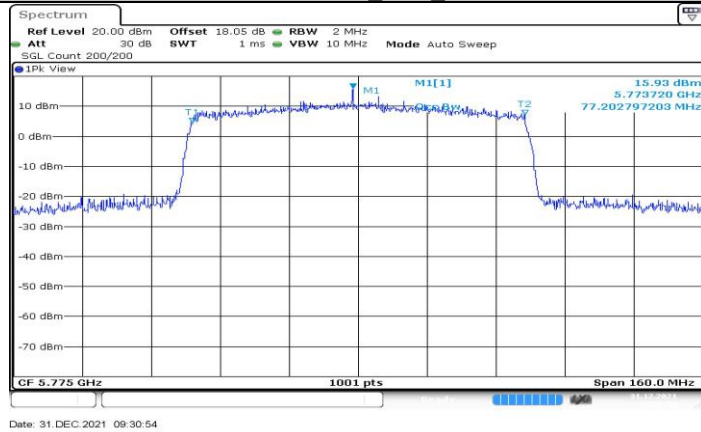
11AX80MIMO Ant2 5610



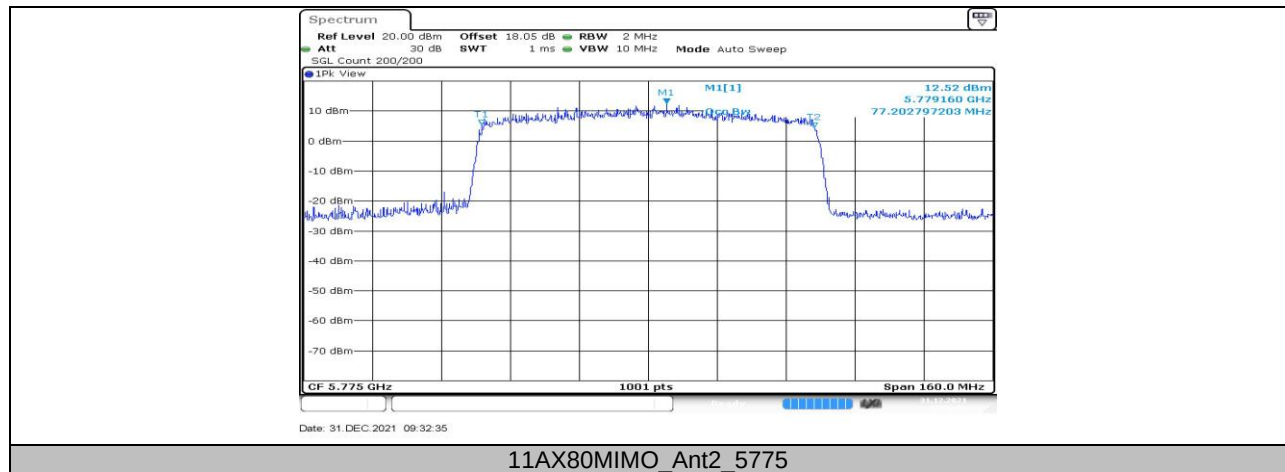
11AX80MIMO Ant1 5690



11AX80MIMO Ant2 5690



11AX80MIMO Ant1 5775



**12.3. Appendix A3: Min Emission Bandwidth****12.3.1. Test Result**

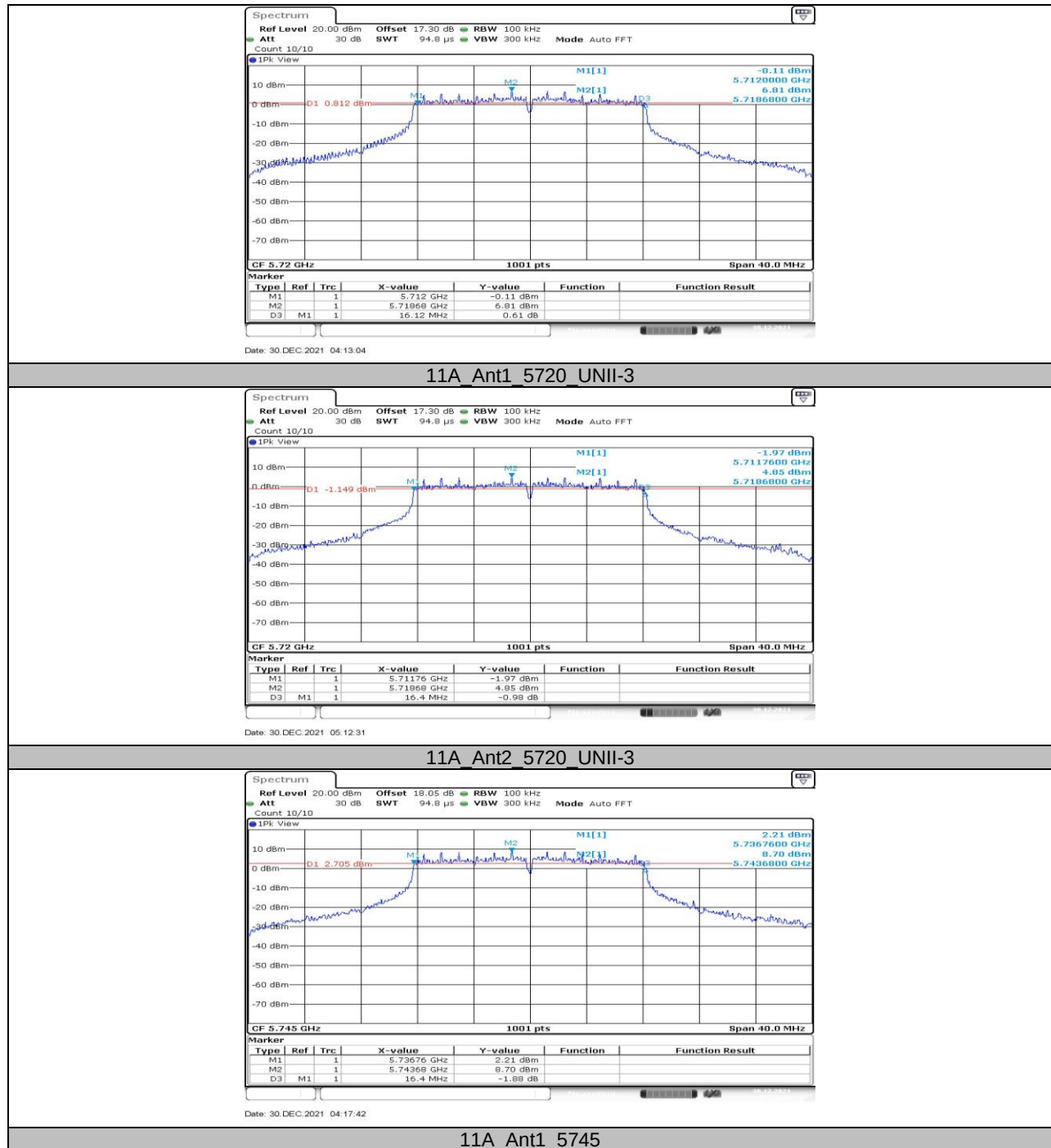
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720_UNII- 3	3.12	5725	5728.120	0.5	PASS
	Ant2	5720_UNII- 3	3.16	5725	5728.160	0.5	PASS
	Ant1	5745	16.400	5736.760	5753.160	0.5	PASS
	Ant2	5745	16.400	5736.760	5753.160	0.5	PASS
	Ant1	5785	16.360	5776.760	5793.120	0.5	PASS
	Ant2	5785	16.360	5776.760	5793.120	0.5	PASS
	Ant1	5825	16.200	5816.760	5832.960	0.5	PASS
	Ant2	5825	16.400	5816.760	5833.160	0.5	PASS
11N20MIMO	Ant1	5720_UNII- 3	3.8	5725	5728.800	0.5	PASS
	Ant2	5720_UNII- 3	3.8	5725	5728.800	0.5	PASS
	Ant1	5745	17.000	5736.520	5753.520	0.5	PASS
	Ant2	5745	17.680	5736.120	5753.800	0.5	PASS
	Ant1	5785	17.680	5776.120	5793.800	0.5	PASS
	Ant2	5785	17.640	5776.160	5793.800	0.5	PASS
	Ant1	5825	16.400	5817.000	5833.400	0.5	PASS
	Ant2	5825	17.640	5816.160	5833.800	0.5	PASS
11N40MIMO	Ant1	5710_UNII- 3	2.6	5725	5727.600	0.5	PASS
	Ant2	5710_UNII- 3	2.6	5725	5727.600	0.5	PASS
	Ant1	5755	35.280	5737.320	5772.600	0.5	PASS
	Ant2	5755	35.200	5737.320	5772.520	0.5	PASS
	Ant1	5795	35.200	5777.400	5812.600	0.5	PASS
	Ant2	5795	35.200	5777.400	5812.600	0.5	PASS
11AC80MIMO	Ant1	5690_UNII- 3	2.6	5725	5727.600	0.5	PASS
	Ant2	5690_UNII- 3	-6.04	5725	5718.960	0.5	PASS
	Ant1	5775	71.680	5738.520	5810.200	0.5	PASS
	Ant2	5775	75.520	5737.240	5812.760	0.5	PASS
11AX20MIMO	Ant1	5720_UNII- 3	4.04	5725	5729.040	0.5	PASS
	Ant2	5720_UNII- 3	4.28	5725	5729.280	0.5	PASS
	Ant1	5745	18.080	5736.240	5754.320	0.5	PASS
	Ant2	5745	16.520	5736.240	5752.760	0.5	PASS
	Ant1	5785	18.400	5775.880	5794.280	0.5	PASS
	Ant2	5785	18.640	5775.640	5794.280	0.5	PASS
	Ant1	5825	17.840	5816.200	5834.040	0.5	PASS
	Ant2	5825	18.880	5815.400	5834.280	0.5	PASS
11AX40MIMO	Ant1	5710_UNII- 3	2.6	5725	5727.600	0.5	PASS
	Ant2	5710_UNII- 3	2.6	5725	5727.600	0.5	PASS
	Ant1	5755	35.280	5737.320	5772.600	0.5	PASS
	Ant2	5755	35.280	5737.320	5772.600	0.5	PASS
	Ant1	5795	35.200	5777.400	5812.600	0.5	PASS
	Ant2	5795	35.200	5777.400	5812.600	0.5	PASS
11AX80MIMO	Ant1	5690_UNII-	2.76	5725	5727.760	0.5	PASS

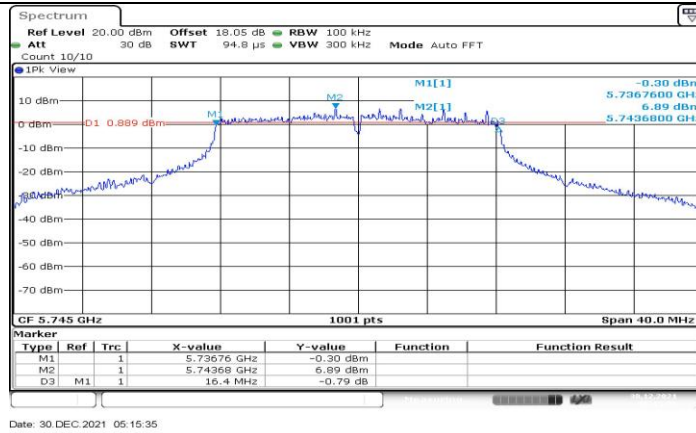


		3					
	Ant2	5690 UNII- 3	2.76	5725	5727.760	0.5	PASS
	Ant1	5775	75.360	5737.240	5812.600	0.5	PASS
	Ant2	5775	75.520	5737.240	5812.760	0.5	PASS

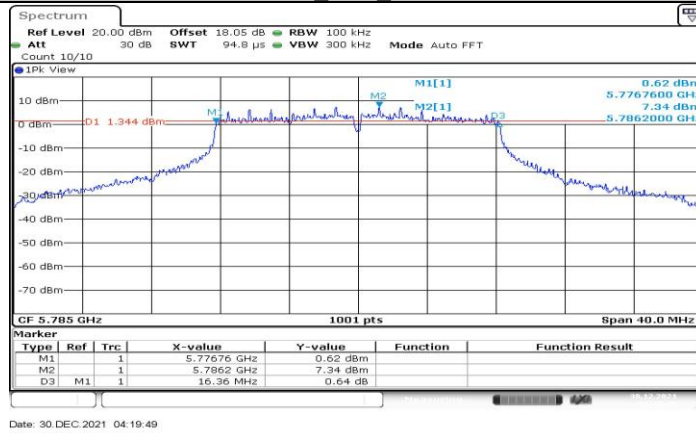


12.3.2. Test Graphs

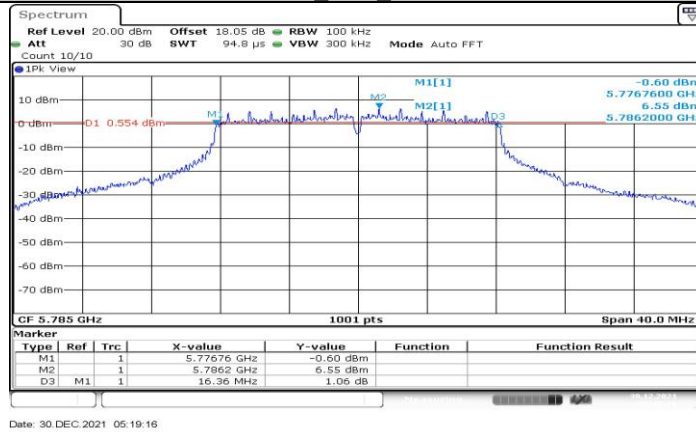




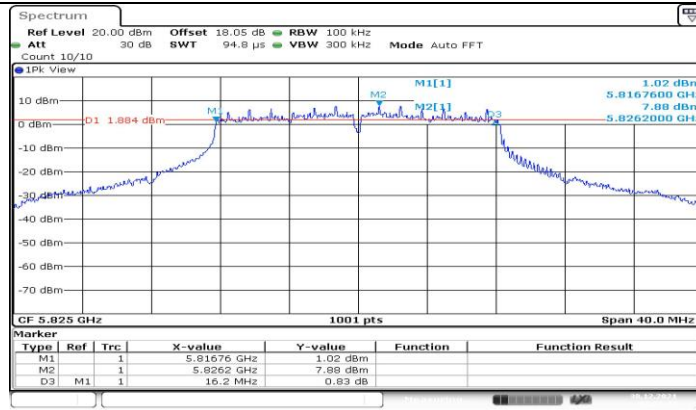
11A Ant2 5745



11A Ant1 5785

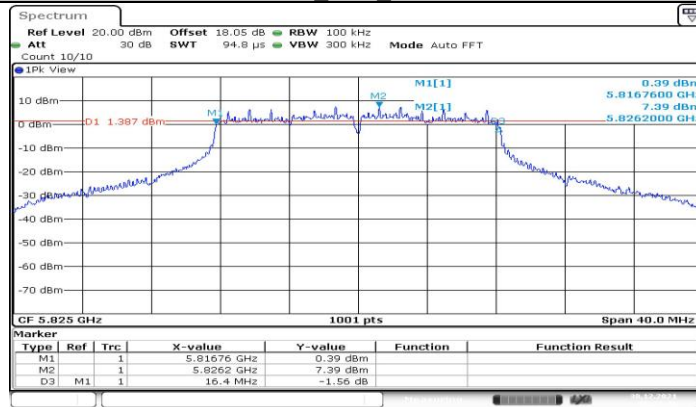


11A Ant2 5785



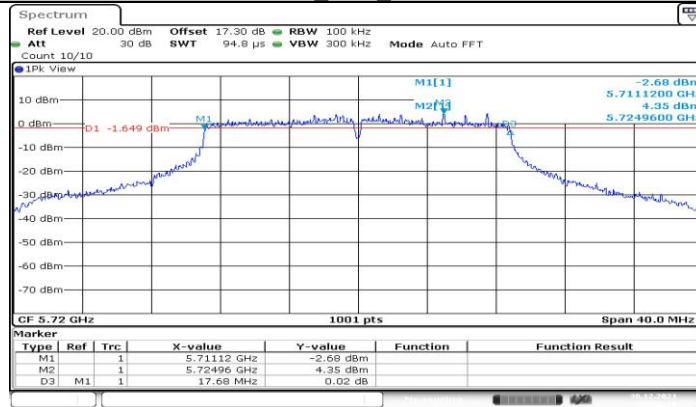
Date: 30 DEC 2021 04:21:48

11A Ant1 5825



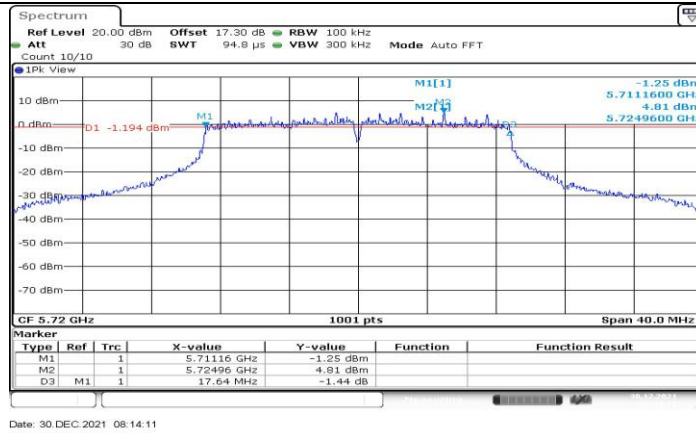
Date: 30 DEC 2021 05:21:46

11A Ant2 5825

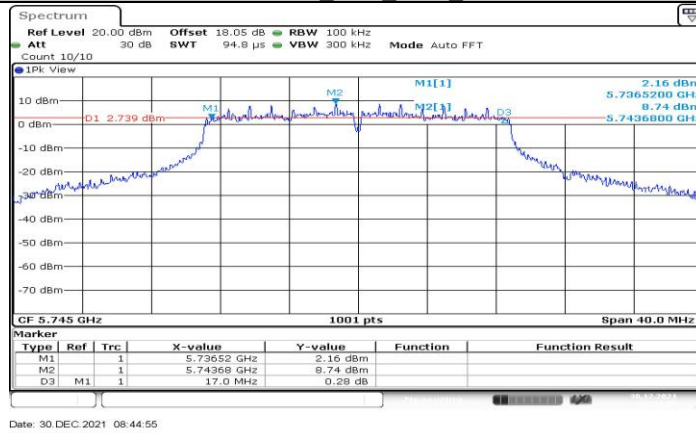


Date: 30 DEC 2021 08:08:10

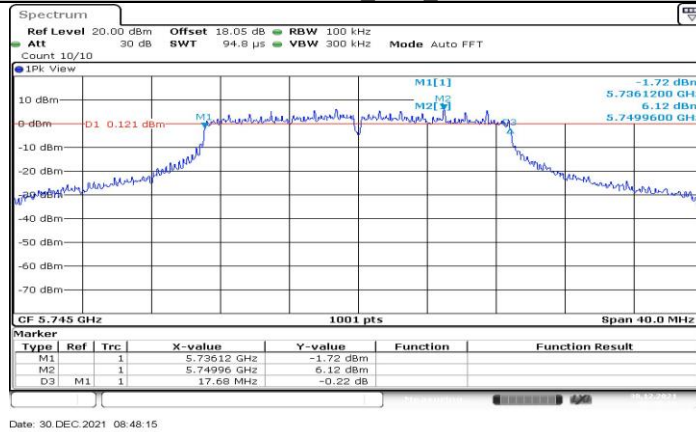
11N20MIMO_Ant1_5720_UNII-3



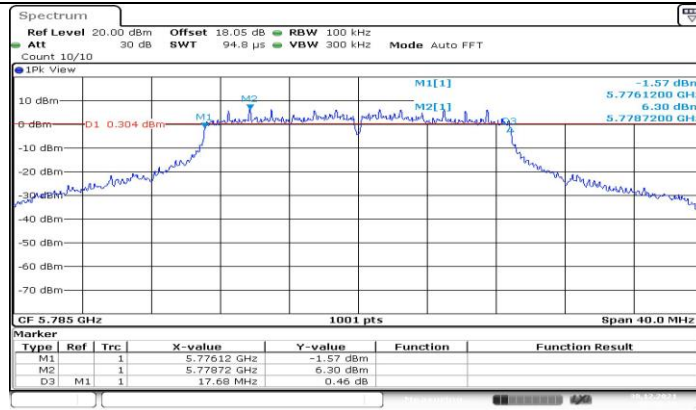
11N20MIMO Ant2 5720 UNII-3



11N20MIMO Ant1 5745

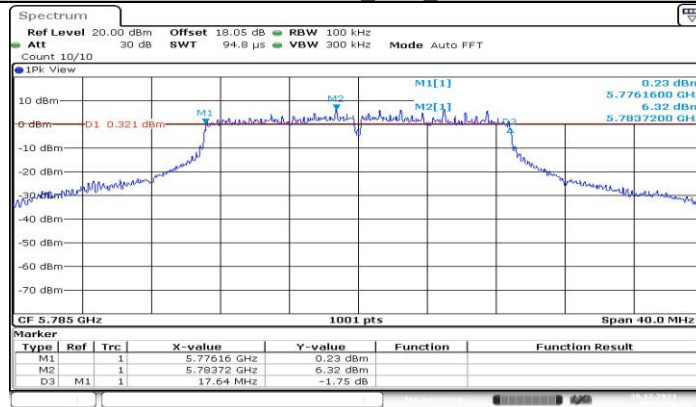


11N20MIMO Ant2 5745



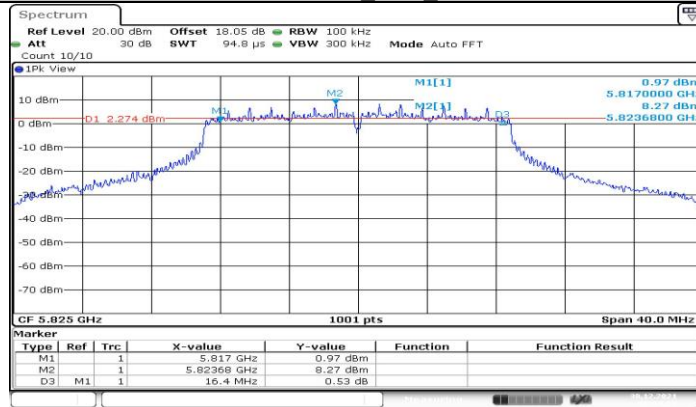
Date: 30 DEC 2021 08:50:15

11N20MIMO Ant1 5785



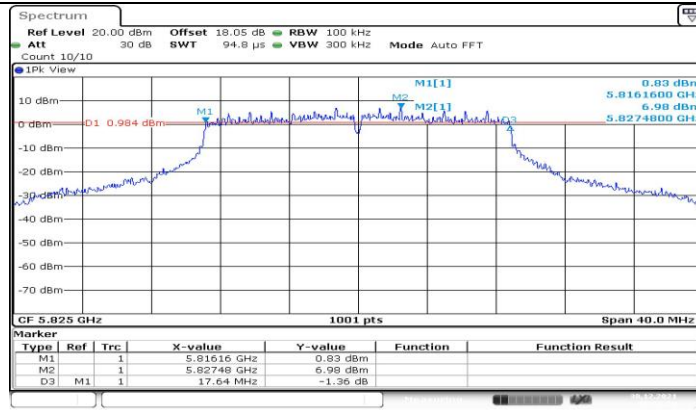
Date: 30 DEC 2021 08:52:38

11N20MIMO Ant2 5785



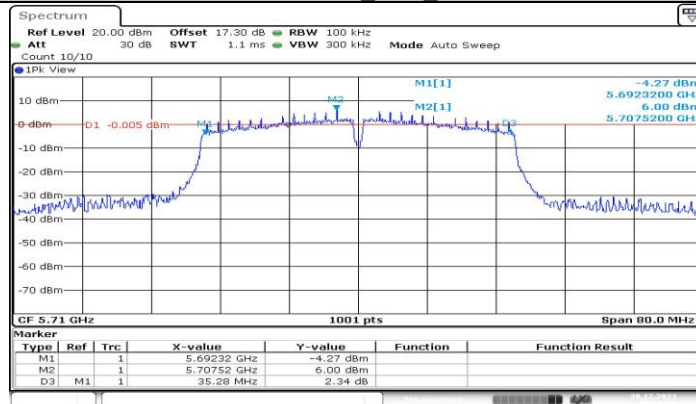
Date: 30 DEC 2021 08:54:57

11N20MIMO Ant1 5825



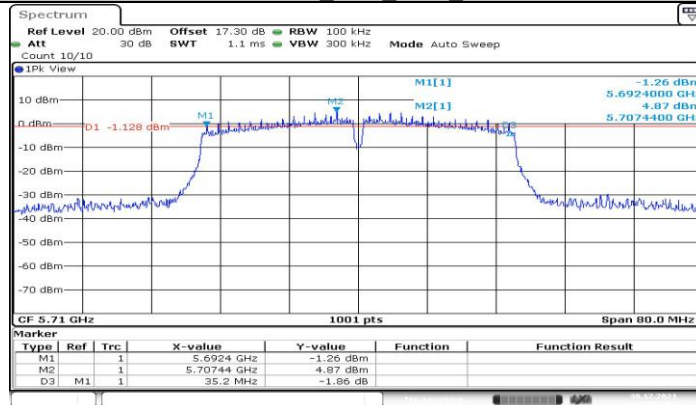
Date: 30 DEC 2021 08:57:51

11N20MIMO Ant2 5825



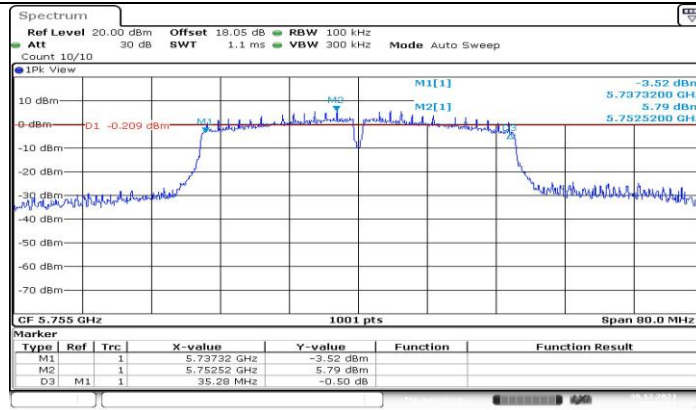
Date: 30 DEC 2021 09:58:29

11N40MIMO Ant1 5710 UNII-3



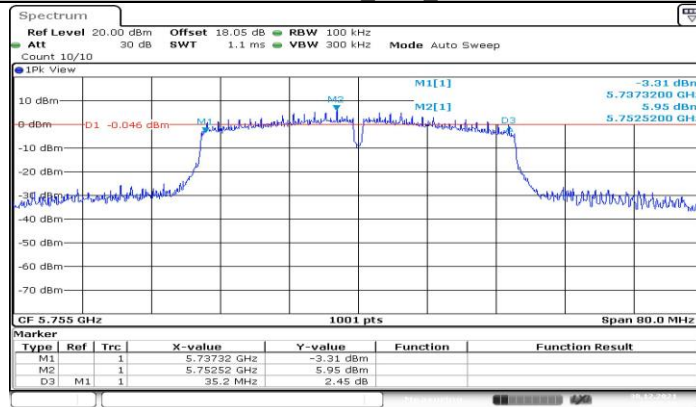
Date: 30 DEC 2021 10:01:02

11N40MIMO Ant2 5710 UNII-3



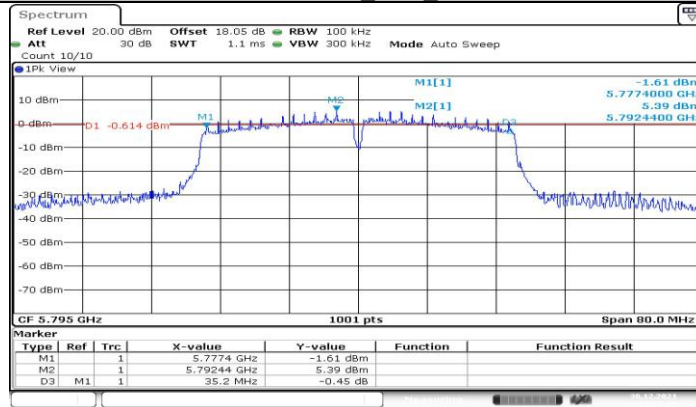
Date: 30 DEC 2021 10:25:11

11N40MIMO Ant1 5755



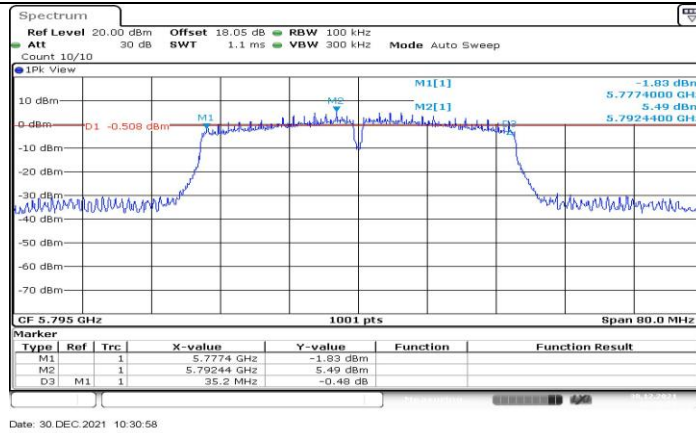
Date: 30 DEC 2021 10:27:15

11N40MIMO Ant2 5755

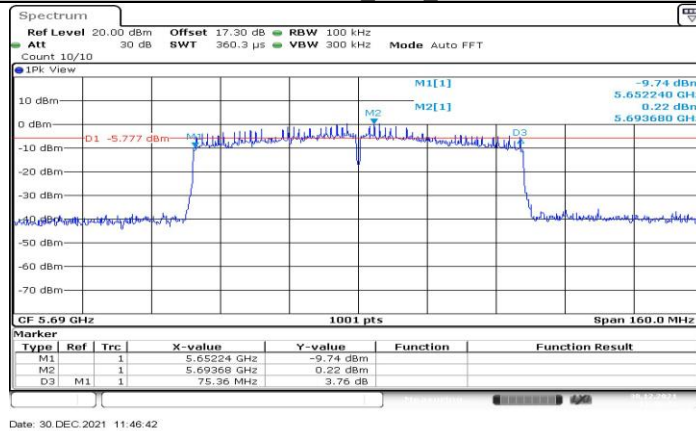


Date: 30 DEC 2021 10:29:15

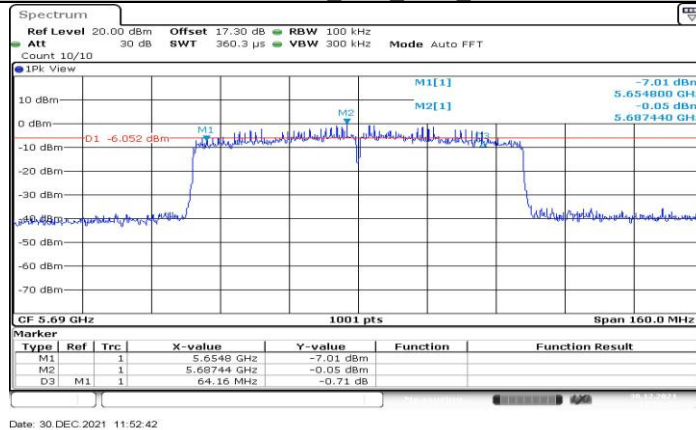
11N40MIMO Ant1 5795



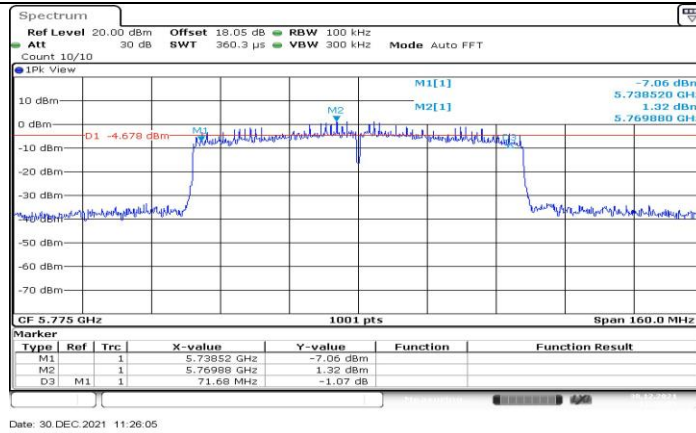
11N40MIMO Ant2 5795



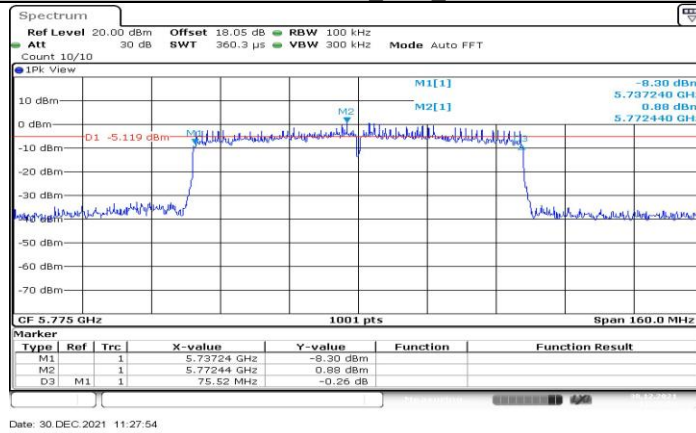
11AC80MIMO Ant1 5690 UNII-3



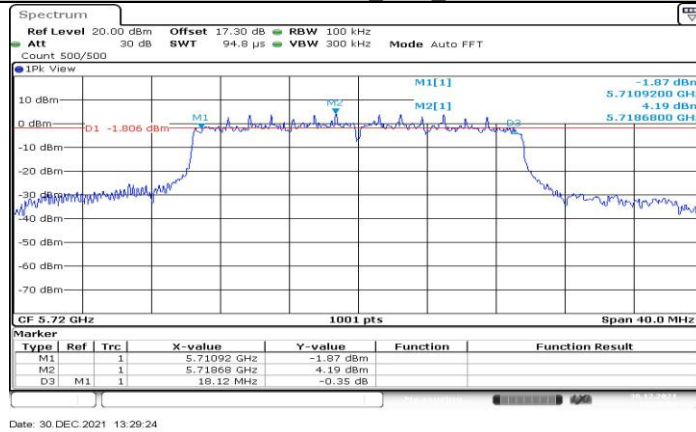
11AC80MIMO Ant2 5690 UNII-3



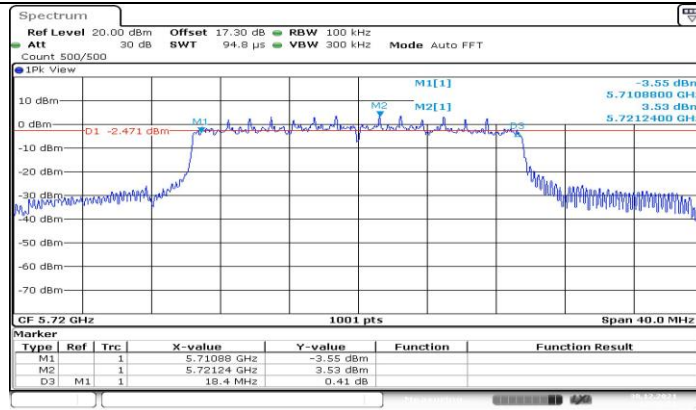
11AC80MIMO Ant1 5775



11AC80MIMO Ant2 5775

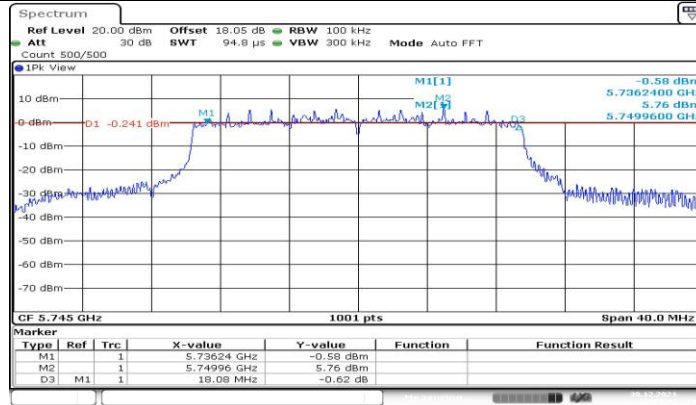


11AX20MIMO Ant1 5720 UNII-3



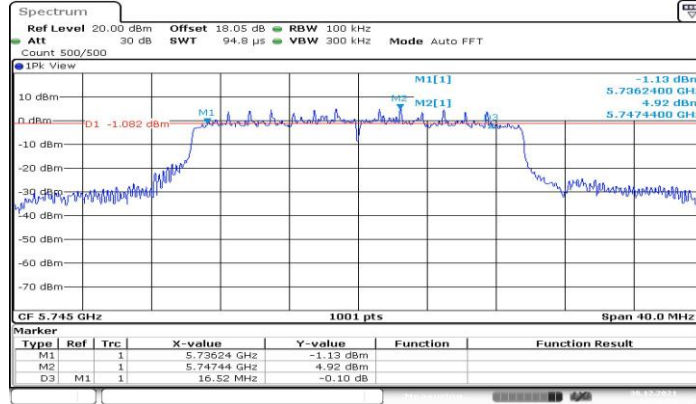
Date: 30 DEC 2021 13:30:51

11AX20MIMO Ant2 5720 UNII-3



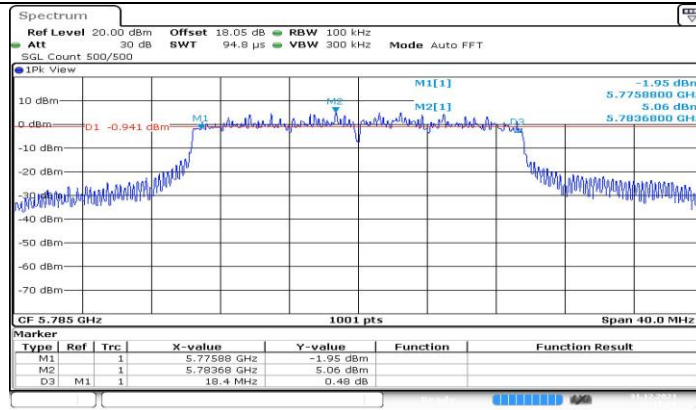
Date: 30 DEC 2021 13:35:44

11AX20MIMO Ant1 5745

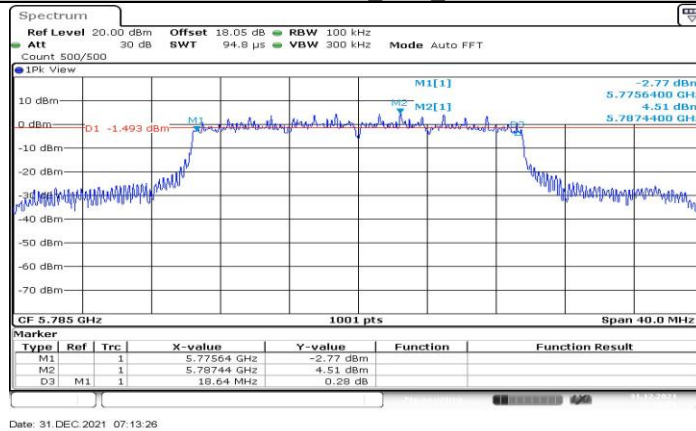


Date: 30 DEC 2021 13:36:52

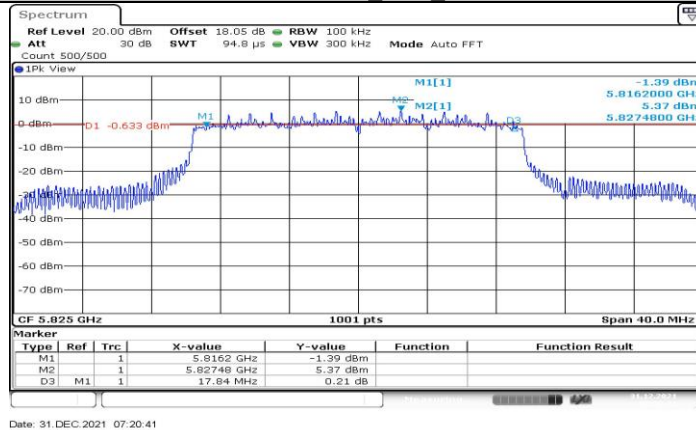
11AX20MIMO_Ant2_5745



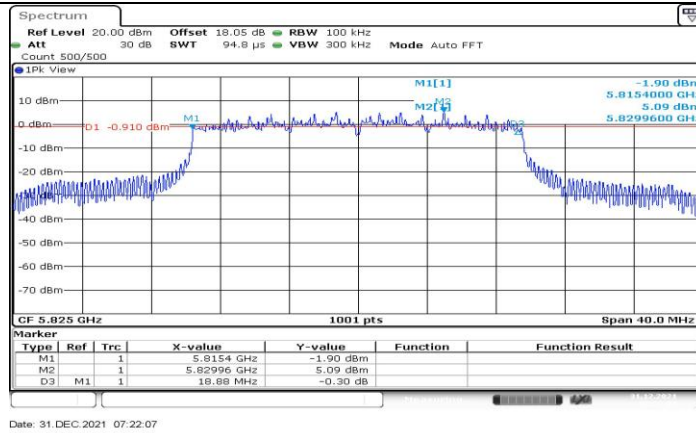
11AX20MIMO Ant1 5785



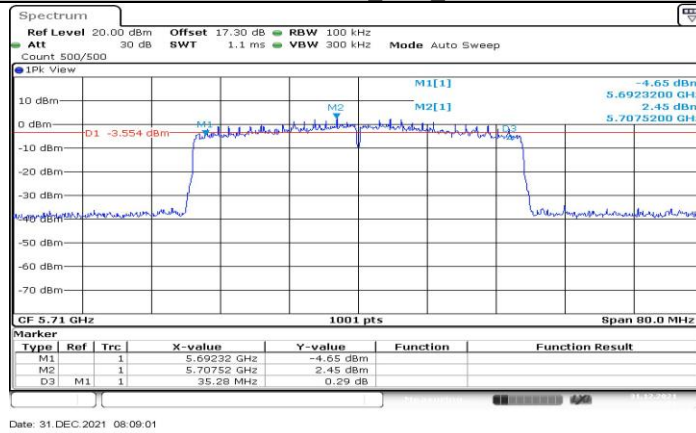
11AX20MIMO Ant2 5785



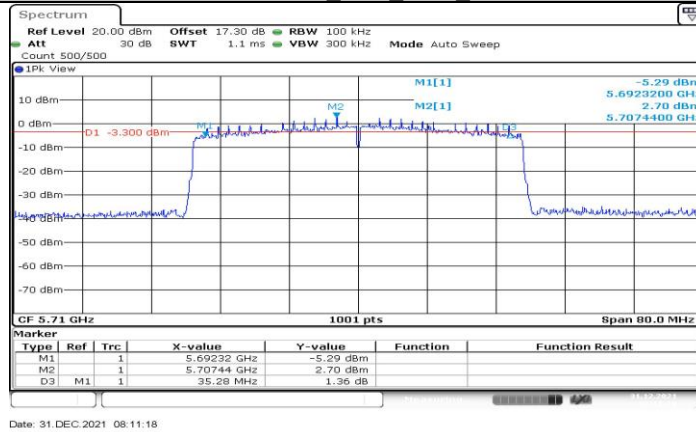
11AX20MIMO Ant1 5825



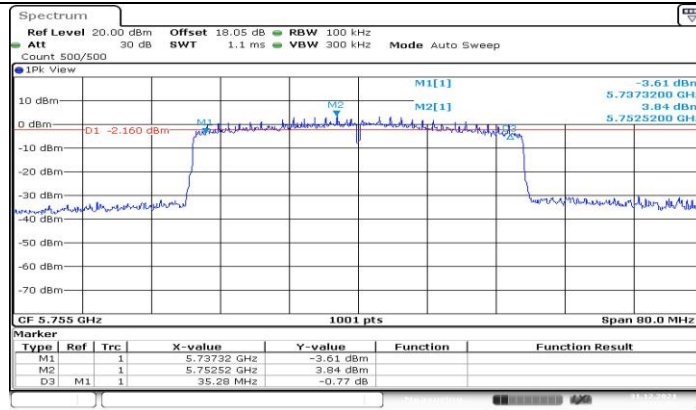
11AX20MIMO Ant2 5825



11AX40MIMO Ant1 5710 UNII-3

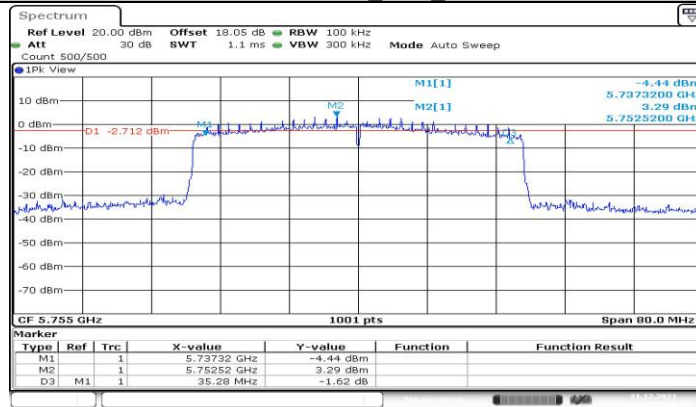


11AX40MIMO Ant2 5710 UNII-3



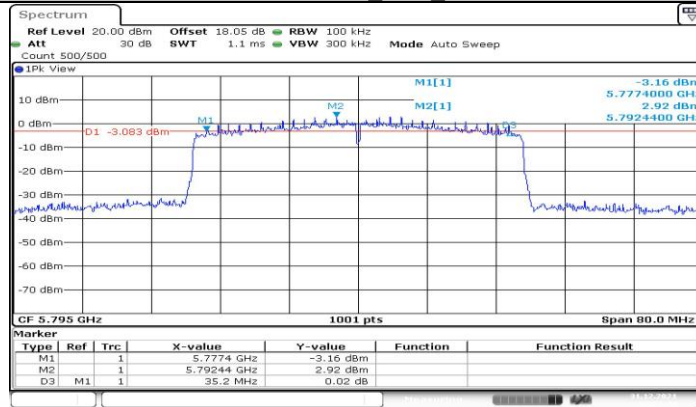
Date: 31 DEC 2021 08:17:35

11AX40MIMO Ant1 5755



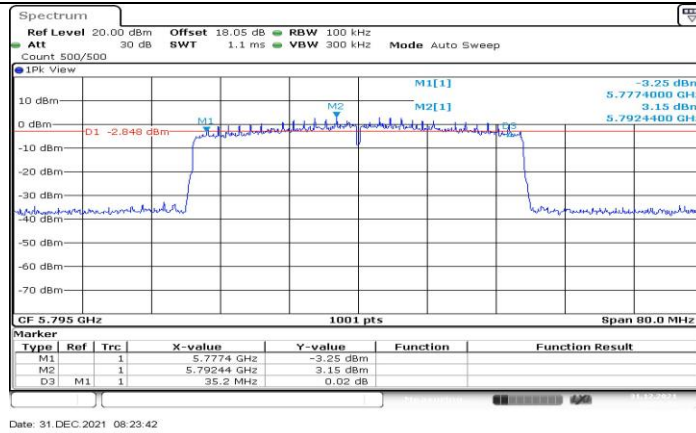
Date: 31 DEC 2021 08:20:10

11AX40MIMO Ant2 5755

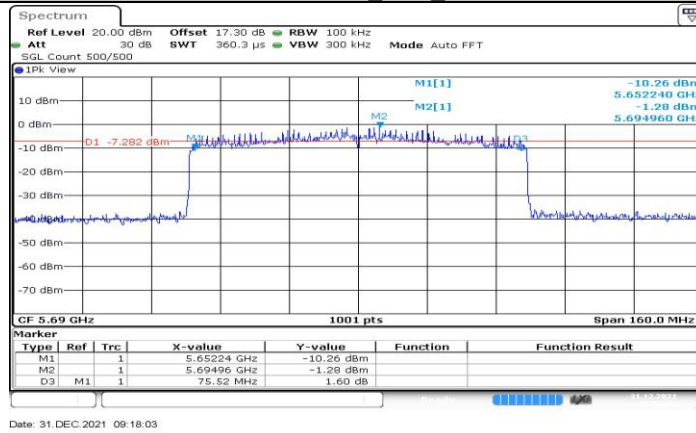


Date: 31 DEC 2021 08:21:45

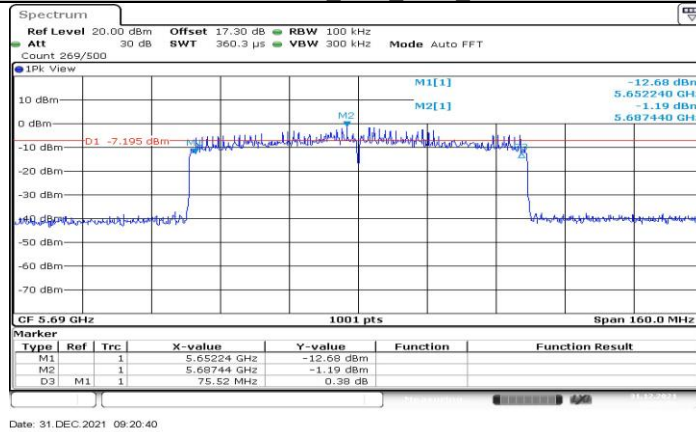
11AX40MIMO Ant1 5795



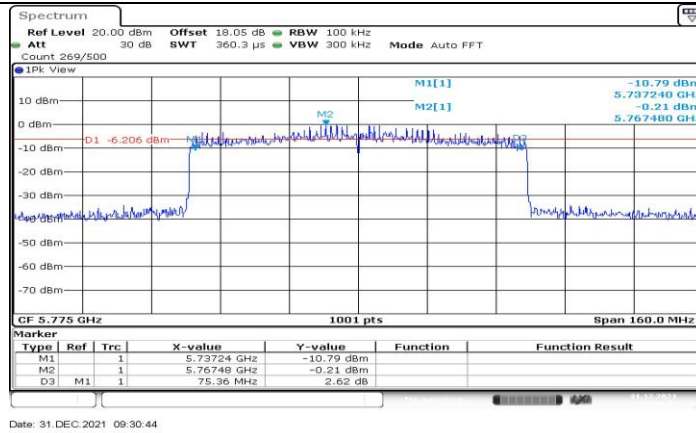
11AX40MIMO Ant2 5795



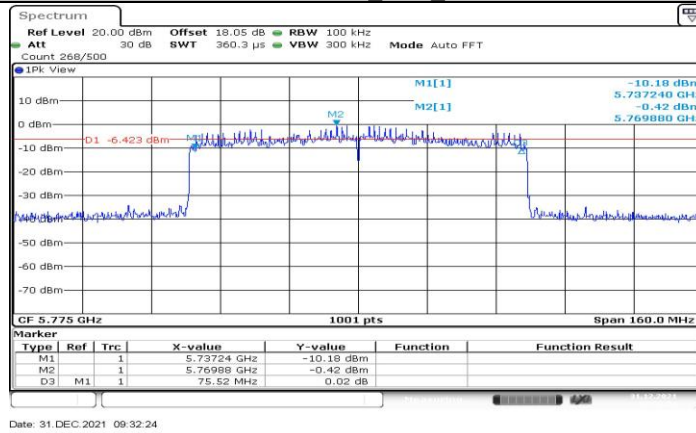
11AX80MIMO Ant1 5690 UNII-3



11AX80MIMO Ant2 5690 UNII-3



11AX80MIMO Ant1 5775



11AX80MIMO Ant2 5775

**12.4. Appendix B: Maximum Average Conducted Output Power****12.4.1. Test Result**

Mode	Frequency (MHz)	Average Power (dBm)			Directional Gain (dBi)	FCC Limit (dBm)	ISED EIRP (dBm)			ISED Final Limit (dBm)
		ANT1	ANT2	Total			ANT1	ANT2	Total	
802.11a 20	5180	16.68	15.43	/	0.00	24	19.68	18.43	/	22.21
	5200	16.15	14.85	/	0.00	24	19.15	17.85	/	22.21
	5240	15.83	15.29	/	0.00	24	18.83	18.29	/	22.21
	5260	16.24	16.05	/	0.00	24	/	/	/	23.21
	5280	16.80	16.67	/	0.00	24	/	/	/	23.21
	5320	16.77	16.36	/	0.00	24	/	/	/	23.21
	5500	16.46	14.67	/	0.00	24	/	/	/	23.21
	5580	16.60	16.05	/	0.00	24	/	/	/	23.21
	5700	17.88	16.43	/	0.00	24	/	/	/	23.21
	5720-2C	17.04	15.53	/	0.00	25	/	/	/	23.21
	5720-3	9.98	8.52	/	0.00	29	/	/	/	24.00
	5745	20.05	18.21	/	0.00	30	/	/	/	30.00
	5785	18.52	17.68	/	0.00	30	/	/	/	30.00
	5825	18.83	18.46	/	0.00	30	/	/	/	30.00
802.11n HT20	5180	11.55	10.64	14.13	3.00	24	/	/	17.13	22.50
	5200	11.21	10.04	13.67	3.00	24	/	/	16.67	22.50
	5240	11.17	10.75	13.98	3.00	24	/	/	16.98	22.50
	5260	15.83	15.72	18.79	3.00	24	/	/	/	23.50
	5280	16.45	16.39	19.43	3.00	24	/	/	/	23.50
	5320	16.11	16.10	19.12	3.00	24	/	/	/	23.50
	5500	15.73	14.75	18.28	3.00	24	/	/	/	23.50
	5580	16.68	16.20	19.46	3.00	24	/	/	/	23.50
	5700	16.77	16.37	19.58	3.00	24	/	/	/	23.50
	5720-2C	15.82	15.31	18.58	3.00	25	/	/	/	23.50
	5720-3	9.41	9.07	12.25	3.00	29	/	/	/	24.00
	5745	19.67	17.62	21.78	3.00	30	/	/	/	30.00
	5785	18.22	17.58	20.92	3.00	30	/	/	/	30.00
	5825	19.04	18.08	21.60	3.00	30	/	/	/	30.00
802.11n HT40	5190	13.80	13.11	16.48	3.00	24	/	/	19.48	23.00



	5230	13.23	12.91	16.08	3.00	24	/	/	19.08	23.00
	5270	16.27	16.33	19.31	3.00	24	/	/	/	24.00
	5310	16.38	17.05	19.74	3.00	24	/	/	/	24.00
	5510	15.86	14.94	18.43	3.00	24	/	/	/	24.00
	5550	16.08	15.14	18.65	3.00	24	/	/	/	24.00
	5670	16.98	16.78	19.89	3.00	24	/	/	/	24.00
	5710-2C	16.84	16.91	19.89	3.00	25	/	/	/	24.00
	5710-3	3.68	4.06	6.88	3.00	29	/	/	/	24.00
	5755	18.61	18.08	21.36	3.00	30	/	/	/	30.00
	5795	18.07	18.03	21.06	3.00	30	/	/	/	30.00
802.11ac VHT80	5210	15.30	14.44	17.90	3.00	24	/	/	20.90	23.00
	5290	15.35	15.45	18.41	3.00	24	/	/	/	24.00
	5530	14.98	13.62	17.36	3.00	24	/	/	/	24.00
	5610	14.75	14.16	17.48	3.00	24	/	/	/	24.00
	5690-2C	16.00	15.73	18.88	3.00	25	/	/	/	24.00
	5690-3	-0.58	0.36	2.93	3.00	29	/	/	/	24.00
	5775	17.40	16.93	20.18	3.00	30	/	/	/	30.00
802.11ax HE20	5180	11.72	10.85	14.32	3.00	24	/	/	17.32	22.50
	5200	11.48	10.22	13.91	3.00	24	/	/	16.91	22.50
	5240	10.91	10.37	13.66	3.00	24	/	/	16.66	22.50
	5260	14.46	14.19	17.34	3.00	24	/	/	/	23.50
	5280	14.97	14.75	17.87	3.00	24	/	/	/	23.50
	5320	14.99	14.46	17.74	3.00	24	/	/	/	23.50
	5500	14.68	12.78	16.84	3.00	24	/	/	/	23.50
	5580	14.90	14.37	17.65	3.00	24	/	/	/	23.50
	5700	15.50	15.12	18.32	3.00	24	/	/	/	23.50
	5720-2C	14.62	14.07	17.36	3.00	25	/	/	/	23.50
	5720-3	8.39	7.99	11.20	3.00	29	/	/	/	24.00
	5745	17.49	16.47	20.02	3.00	30	/	/	/	30.00
	5785	16.43	15.86	19.16	3.00	30	/	/	/	30.00
	5825	16.83	16.54	19.70	3.00	30	/	/	/	30.00
802.11ax HE40	5190	13.30	12.74	16.04	3.00	24	/	/	19.04	23.00
	5230	12.77	12.50	15.65	3.00	24	/	/	18.65	23.00
	5270	14.24	13.81	17.04	3.00	24	/	/	/	24.00
	5310	14.63	14.90	17.78	3.00	24	/	/	/	24.00
	5510	14.22	12.89	16.62	3.00	24	/	/	/	24.00
	5550	14.09	13.21	16.68	3.00	24	/	/	/	24.00
	5670	15.40	15.32	18.37	3.00	24	/	/	/	24.00
	5710-2C	15.40	15.55	18.49	3.00	25	/	/	/	24.00
	5710-3	3.69	4.24	6.98	3.00	29	/	/	/	24.00
	5755	16.83	16.41	19.64	3.00	30	/	/	/	30.00



	5795	16.38	16.32	19.36	3.00	30	/	/	/	30.00
802.11ax HE80	5210	14.31	13.60	16.98	3.00	24	/	/	19.98	23.00
	5290	14.68	14.68	17.69	3.00	24	/	/	/	24.00
	5530	14.17	12.81	16.55	3.00	24	/	/	/	24.00
	5610	13.60	13.49	16.56	3.00	24	/	/	/	24.00
	5690-2C	15.06	14.65	17.87	3.00	25	/	/	/	24.00
	5690-3	-0.07	-0.13	2.91	3.00	29	/	/	/	24.00
	5775	16.68	16.08	19.40	3.00	30	/	/	/	30.00

Note: 1. The Duty Cycle Factor is compensated in the graph.

2. The EUT support Cyclic Shift Diversity (CDD), Space Time Coding (STBC), Spatial Division Multiplexing (SDM) modes. They use the same conducted power per chain in any given mode, so we only recorded the worst case CDD mode data.

**12.5. Appendix C: Maximum power spectral density****12.5.1. Test Result**

Mode	Frequency (MHz)	5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)			Directional Gain (dBi)	FCC Limit 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)	PSD EIRP			ISED Limit 5150- 5725MHz (dBm/MHz) 5725- 5850MHz (dBm/500kHz)
		ANT1	ANT2	Total			ANT1	ANT2	Total	
802.11a 20	5180	5.93	4.75	/	0.00	11.00	8.930	7.750	/	10.00
	5200	5.47	4.10	/	0.00	11.00	8.470	7.100	/	10.00
	5240	5.32	4.78	/	0.00	11.00	8.320	7.780	/	10.00
	5260	5.16	5.43	/	0.00	11.00	/	/	/	11.00
	5280	6.25	6.08	/	0.00	11.00	/	/	/	11.00
	5320	5.89	5.62	/	0.00	11.00	/	/	/	11.00
	5500	5.75	3.96	/	0.00	11.00	/	/	/	11.00
	5580	5.93	5.50	/	0.00	11.00	/	/	/	11.00
	5700	7.37	5.81	/	0.00	11.00	/	/	/	11.00
	5720-2C	7.14	5.75	/	0.00	12.00	/	/	/	12.00
	5720-3	2.61	1.00	/	0.00	29.00	/	/	/	29.00
	5745	6.62	4.76	/	0.00	30.00	/	/	/	30.00
	5785	5.22	4.24	/	0.00	30.00	/	/	/	30.00
	5825	5.69	5.19	/	0.00	30.00	/	/	/	30.00
802.11n HT20	5180	0.60	-0.04	3.30	6.00	11.00	/	/	9.31	10.00
	5200	0.26	-0.83	2.76	6.00	11.00	/	/	8.77	10.00
	5240	0.43	0.17	3.31	6.00	11.00	/	/	9.32	10.00
	5260	4.98	5.03	8.02	6.00	11.00	/	/	/	11.00
	5280	5.49	5.61	8.56	6.00	11.00	/	/	/	11.00
	5320	5.15	5.30	8.24	6.00	11.00	/	/	/	11.00
	5500	4.86	3.98	7.45	6.00	11.00	/	/	/	11.00
	5580	5.84	5.33	8.60	6.00	11.00	/	/	/	11.00
	5700	5.82	5.46	8.65	6.00	11.00	/	/	/	11.00



	5720-2C	5.74	5.36	8.56	6.00	12.00	/	/	/	12.00
	5720-3	1.24	0.97	4.12	6.00	29.00	/	/	/	29.00
	5745	5.79	3.79	7.91	6.00	30.00	/	/	/	30.00
	5785	4.57	3.97	7.29	6.00	30.00	/	/	/	30.00
	5825	5.54	4.53	8.07	6.00	30.00	/	/	/	30.00
802.11n HT40	5190	1.02	0.17	3.63	6.00	11.00	/	/	9.64	10.00
	5230	-0.10	0.20	3.06	6.00	11.00	/	/	9.07	10.00
	5270	3.14	3.23	6.20	6.00	11.00	/	/	/	11.00
	5310	3.54	3.91	6.74	6.00	11.00	/	/	/	11.00
	5510	2.20	1.79	5.01	6.00	11.00	/	/	/	11.00
	5550	2.79	1.92	5.39	6.00	11.00	/	/	/	11.00
	5670	3.97	3.26	6.64	6.00	11.00	/	/	/	11.00
	5710-2C	4.44	5.05	7.77	6.00	12.00	/	/	/	12.00
	5710-3	-3.35	-2.48	0.12	6.00	29.00	/	/	/	29.00
	5755	2.42	2.20	5.32	6.00	30.00	/	/	/	30.00
	5795	2.14	3.05	5.63	6.00	30.00	/	/	/	30.00
802.11ac VHT80	5210	-0.04	-2.78	1.81	6.00	11.00	/	/	7.82	10.00
	5290	0.34	-0.44	2.98	6.00	11.00	/	/	/	11.00
	5530	-1.13	-2.97	1.06	6.00	11.00	/	/	/	11.00
	5610	-1.65	-2.01	1.18	6.00	11.00	/	/	/	11.00
	5690-2C	0.33	-0.20	3.08	6.00	12.00	/	/	/	12.00
	5690-3	-8.17	-6.74	4.39	6.00	29.00	/	/	/	29.00
	5775	-1.27	-2.55	1.15	6.00	30.00	/	/	/	30.00
802.11ax HE20	5180	1.13	0.06	3.64	6.00	11.00	/	/	9.65	10.00
	5200	0.29	-0.27	3.03	6.00	11.00	/	/	9.04	10.00
	5240	0.39	-0.53	2.96	6.00	11.00	/	/	8.97	10.00
	5260	3.62	3.16	6.41	6.00	11.00	/	/	/	11.00
	5280	4.05	3.61	6.85	6.00	11.00	/	/	/	11.00
	5320	4.00	3.70	6.86	6.00	11.00	/	/	/	11.00
	5500	3.88	1.50	5.86	6.00	11.00	/	/	/	11.00
	5580	3.95	3.36	6.68	6.00	11.00	/	/	/	11.00
	5700	4.50	3.92	7.23	6.00	11.00	/	/	/	11.00
	5720-2C	4.53	4.50	7.53	6.00	12.00	/	/	/	12.00
	5720-3	1.34	0.20	3.82	6.00	29.00	/	/	/	29.00
	5745	3.47	2.83	6.17	6.00	30.00	/	/	/	30.00
	5785	2.61	2.18	5.41	6.00	30.00	/	/	/	30.00
	5825	3.54	3.12	6.35	6.00	30.00	/	/	/	30.00
802.11ax HE40	5190	0.31	-0.50	2.93	6.00	11.00	/	/	8.94	10.00
	5230	-0.23	-0.45	2.67	6.00	11.00	/	/	8.68	10.00
	5270	1.60	1.56	4.59	6.00	11.00	/	/	/	11.00
	5310	1.55	0.22	3.95	6.00	11.00	/	/	/	11.00



	5510	1.05	-0.05	3.55	6.00	11.00	/	/	/	11.00
	5550	0.95	-0.02	3.50	6.00	11.00	/	/	/	11.00
	5670	2.63	2.28	5.47	6.00	11.00	/	/	/	11.00
	5710-2C	2.53	2.61	5.58	6.00	12.00	/	/	/	12.00
	5710-3	-4.04	-3.02	- 0.49	6.00	29.00	/	/	/	29.00
	5755	0.99	0.22	3.63	6.00	30.00	/	/	/	30.00
	5795	0.57	1.03	3.82	6.00	30.00	/	/	/	30.00
802.11ax HE80	5210	-1.97	-2.93	0.59	6.00	11.00	/	/	6.60	10.00
	5290	-1.19	-1.33	1.75	6.00	11.00	/	/	/	11.00
	5530	-1.60	-4.41	0.23	6.00	11.00	/	/	/	11.00
	5610	-2.33	-4.16	- 0.14	6.00	11.00	/	/	/	11.00
	5690-2C	-0.35	-1.44	2.15	6.00	12.00	/	/	/	12.00
	5690-3	-7.94	-8.18	- 5.05	6.00	29.00	/	/	/	29.00
	5775	-2.43	-2.35	0.62	6.00	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 graph.
3. The EUT support Cyclic Shift Diversity (CDD), Space Time Coding (STBC), Spatial Division Multiplexing (SDM) modes. They use the same conducted power per chain in any given mode, so we only recorded the worst case CDD mode data.