

AppendixB: Maximum conducted output power**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11a	Ant1	5180	13.06	<=23.98	PASS
	Ant2	5180	15.15	<=23.98	PASS
	Ant1	5200	12.93	<=23.98	PASS
	Ant2	5200	15.07	<=23.98	PASS
	Ant1	5240	12.14	<=23.98	PASS
	Ant2	5240	14.72	<=23.98	PASS
	Ant1	5260	13.16	<=23.72	PASS
	Ant2	5260	15.01	<=23.79	PASS
	Ant1	5280	13.20	<=23.76	PASS
	Ant2	5280	15.08	<=23.74	PASS
	Ant1	5320	13.40	<=23.75	PASS
	Ant2	5320	15.21	<=23.73	PASS
	Ant1	5500	13.07	<=23.72	PASS
	Ant2	5500	14.40	<=23.73	PASS
	Ant1	5600	12.82	<=23.70	PASS
	Ant2	5600	15.19	<=23.76	PASS
	Ant1	5720_UNII-2C	11.99	<=22.58	PASS
	Ant2	5720_UNII-2C	11.76	<=22.60	PASS
	Ant1	5720_UNII-3	5.36	<=30	PASS
	Ant2	5720_UNII-3	5.16	<=30	PASS
	Ant1	5745	12.07	<=30	PASS
	Ant2	5745	14.86	<=30	PASS
	Ant1	5785	12.67	<=30	PASS
	Ant2	5785	14.53	<=30	PASS
	Ant1	5825	12.49	<=30	PASS
	Ant2	5825	14.42	<=30	PASS
11N20MIMO	Ant1	5180	11.14	<=23.98	PASS
	Ant2	5180	12.99	<=23.98	PASS
	total	5180	15.2	<=23.98	PASS
	Ant1	5200	11.09	<=23.98	PASS
	Ant2	5200	12.91	<=23.98	PASS
	total	5200	15.1	<=23.98	PASS
	Ant1	5240	11.04	<=23.98	PASS
	Ant2	5240	12.76	<=23.98	PASS
	total	5240	15.0	<=23.98	PASS
	Ant1	5260	11.22	<=23.98	PASS
	Ant2	5260	12.63	<=23.98	PASS
	total	5260	15.0	<=23.98	PASS
	Ant1	5280	11.15	<=23.95	PASS

	Ant2	5280	12.65	<=23.93	PASS
	total	5280	15.0	<=23.93	PASS
	Ant1	5320	11.35	<=23.93	PASS
	Ant2	5320	12.70	<=23.97	PASS
	total	5320	15.1	<=23.97	PASS
	Ant1	5500	10.90	<=23.96	PASS
	Ant2	5500	12.10	<=23.98	PASS
	total	5500	14.6	<=23.98	PASS
	Ant1	5600	10.63	<=23.98	PASS
	Ant2	5600	12.89	<=23.95	PASS
	total	5600	14.9	<=23.95	PASS
	Ant1	5720_UNII-2C	9.93	<=22.76	PASS
	Ant2	5720_UNII-2C	9.46	<=22.71	PASS
	total	5720_UNII-2C	12.7	<=22.71	PASS
	Ant1	5720_UNII-3	3.69	<=30	PASS
	Ant2	5720_UNII-3	3.22	<=30	PASS
	total	5720_UNII-3	6.5	<=30	PASS
	Ant1	5745	12.67	<=30	PASS
	Ant2	5745	14.35	<=30	PASS
	total	5745	16.6	<=30	PASS
	Ant1	5785	12.47	<=30	PASS
	Ant2	5785	13.96	<=30	PASS
	total	5785	16.3	<=30	PASS
	Ant1	5825	12.21	<=30	PASS
	Ant2	5825	13.82	<=30	PASS
	total	5825	16.1	<=30	PASS
11N40MIMO	Ant1	5190	12.70	<=23.98	PASS
	Ant2	5190	14.18	<=23.98	PASS
	total	5190	16.5	<=23.98	PASS
	Ant1	5230	12.35	<=23.98	PASS
	Ant2	5230	14.02	<=23.98	PASS
	total	5230	16.3	<=23.98	PASS
	Ant1	5270	12.57	<=23.98	PASS
	Ant2	5270	14.13	<=23.98	PASS
	total	5270	16.4	<=23.98	PASS
	Ant1	5310	12.73	<=23.98	PASS
	Ant2	5310	14.31	<=23.98	PASS
	total	5310	16.6	<=23.98	PASS
	Ant1	5510	11.35	<=23.98	PASS
	Ant2	5510	12.57	<=23.98	PASS
	total	5510	15.0	<=23.98	PASS
	Ant1	5550	11.42	<=23.98	PASS
	Ant2	5550	12.66	<=23.98	PASS
	total	5550	15.1	<=23.98	PASS

	Ant1	5710_UNII-2C	11.06	<=23.98	PASS
	Ant2	5710_UNII-2C	10.60	<=23.98	PASS
	total	5710_UNII-2C	13.8	<=23.98	PASS
	Ant1	5710_UNII-3	-0.28	<=30	PASS
	Ant2	5710_UNII-3	-0.68	<=30	PASS
	total	5710_UNII-3	2.5	<=30	PASS
	Ant1	5755	12.43	<=30	PASS
	Ant2	5755	13.83	<=30	PASS
	total	5755	16.2	<=30	PASS
	Ant1	5795	12.07	<=30	PASS
	Ant2	5795	13.60	<=30	PASS
	total	5795	15.9	<=30	PASS
11ac20MIMO	Ant1	5180	11.02	<=23.98	PASS
	Ant2	5180	12.79	<=23.98	PASS
	total	5180	15.0	<=23.98	PASS
	Ant1	5200	10.94	<=23.98	PASS
	Ant2	5200	12.67	<=23.98	PASS
	total	5200	14.9	<=23.98	PASS
	Ant1	5240	10.87	<=23.98	PASS
	Ant2	5240	12.61	<=23.98	PASS
	total	5240	14.8	<=23.98	PASS
	Ant1	5260	11.15	<=23.98	PASS
	Ant2	5260	12.58	<=23.97	PASS
	total	5260	14.9	<=23.97	PASS
	Ant1	5280	11.11	<=23.98	PASS
	Ant2	5280	12.73	<=23.98	PASS
	total	5280	15.0	<=23.98	PASS
	Ant1	5320	11.36	<=23.98	PASS
	Ant2	5320	12.71	<=23.98	PASS
	total	5320	15.1	<=23.98	PASS
	Ant1	5500	10.82	<=23.98	PASS
	Ant2	5500	12.12	<=23.98	PASS
	total	5500	14.5	<=23.98	PASS
	Ant1	5600	10.75	<=23.98	PASS
	Ant2	5600	12.90	<=23.97	PASS
	total	5600	15.0	<=23.97	PASS
	Ant1	5720_UNII-2C	9.89	<=22.73	PASS
	Ant2	5720_UNII-2C	9.42	<=22.70	PASS
	total	5720_UNII-2C	12.7	<=22.70	PASS
	Ant1	5720_UNII-3	3.62	<=30	PASS
	Ant2	5720_UNII-3	3.17	<=30	PASS
	total	5720_UNII-3	6.4	<=30	PASS
	Ant1	5745	12.73	<=30	PASS
	Ant2	5745	14.40	<=30	PASS

	total	5745	16.7	<=30	PASS
	Ant1	5785	12.37	<=30	PASS
	Ant2	5785	14.02	<=30	PASS
	total	5785	16.3	<=30	PASS
	Ant1	5825	12.20	<=30	PASS
	Ant2	5825	13.86	<=30	PASS
	total	5825	16.1	<=30	PASS
11ac40MIMO	Ant1	5190	11.84	<=23.98	PASS
	Ant2	5190	13.39	<=23.98	PASS
	total	5190	15.7	<=23.98	PASS
	Ant1	5230	11.59	<=23.98	PASS
	Ant2	5230	13.31	<=23.98	PASS
	total	5230	15.5	<=23.98	PASS
	Ant1	5270	11.74	<=23.98	PASS
	Ant2	5270	13.23	<=23.98	PASS
	total	5270	15.6	<=23.98	PASS
	Ant1	5310	11.87	<=23.98	PASS
	Ant2	5310	13.50	<=23.98	PASS
	total	5310	15.8	<=23.98	PASS
	Ant1	5510	11.41	<=23.98	PASS
	Ant2	5510	12.57	<=23.98	PASS
	total	5510	15.0	<=23.98	PASS
	Ant1	5550	11.56	<=23.98	PASS
	Ant2	5550	12.65	<=23.98	PASS
	total	5550	15.1	<=23.98	PASS
	Ant1	5710_UNII-2C	11.00	<=23.98	PASS
	Ant2	5710_UNII-2C	10.59	<=23.98	PASS
	total	5710_UNII-2C	13.8	<=23.98	PASS
	Ant1	5710_UNII-3	-0.34	<=30	PASS
	Ant2	5710_UNII-3	-0.72	<=30	PASS
	total	5710_UNII-3	2.5	<=30	PASS
	Ant1	5755	11.62	<=30	PASS
	Ant2	5755	13.00	<=30	PASS
	total	5755	15.4	<=30	PASS
	Ant1	5795	11.20	<=30	PASS
	Ant2	5795	12.81	<=30	PASS
	total	5795	15.1	<=30	PASS
11ac80MIMO	Ant1	5210	10.33	<=23.98	PASS
	Ant2	5210	12.15	<=23.98	PASS
	total	5210	14.3	<=23.98	PASS
	Ant1	5290	10.66	<=23.98	PASS
	Ant2	5290	12.04	<=23.98	PASS
	total	5290	14.4	<=23.98	PASS
	Ant1	5530	10.41	<=23.98	PASS

	Ant2	5530	11.54	<=23.98	PASS
	total	5530	14.0	<=23.98	PASS
	Ant1	5610	10.18	<=23.98	PASS
	Ant2	5610	12.27	<=23.98	PASS
	total	5610	14.4	<=23.98	PASS
	Ant1	5690_UNII-2C	10.21	<=23.98	PASS
	Ant2	5690_UNII-2C	9.96	<=23.98	PASS
	total	5690_UNII-2C	13.1	<=23.98	PASS
	Ant1	5690_UNII-3	-5.06	<=30	PASS
	Ant2	5690_UNII-3	-5.25	<=30	PASS
	total	5690_UNII-3	-2.1	<=30	PASS
	Ant1	5775	11.14	<=30	PASS
	Ant2	5775	12.81	<=30	PASS
	total	5775	15.1	<=30	PASS
11ax20MIMO	Ant1	5180	10.19	<=23.98	PASS
	Ant2	5180	11.94	<=23.98	PASS
	total	5180	14.2	<=23.98	PASS
	Ant1	5200	10.30	<=23.98	PASS
	Ant2	5200	11.91	<=23.98	PASS
	total	5200	14.2	<=23.98	PASS
	Ant1	5240	10.25	<=23.98	PASS
	Ant2	5240	11.56	<=23.98	PASS
	total	5240	13.96	<=23.98	PASS
	Ant1	5260	10.68	<=23.98	PASS
	Ant2	5260	11.79	<=23.98	PASS
	total	5260	14.28	<=23.98	PASS
	Ant1	5280	10.26	<=23.98	PASS
	Ant2	5280	11.82	<=23.98	PASS
	total	5280	14.1	<=23.98	PASS
	Ant1	5320	10.49	<=23.98	PASS
	Ant2	5320	11.99	<=23.98	PASS
	total	5320	14.3	<=23.98	PASS
	Ant1	5500	10.15	<=23.98	PASS
	Ant2	5500	11.20	<=23.98	PASS
	total	5500	13.7	<=23.98	PASS
	Ant1	5600	10.01	<=23.98	PASS
	Ant2	5600	12.24	<=23.98	PASS
	total	5600	14.3	<=23.98	PASS
	Ant1	5720_UNII-2C	8.86	<=22.89	PASS
	Ant2	5720_UNII-2C	8.55	<=22.91	PASS
	total	5720_UNII-2C	11.7	<=22.91	PASS
	Ant1	5720_UNII-3	3.04	<=30	PASS
	Ant2	5720_UNII-3	2.74	<=30	PASS
	total	5720_UNII-3	5.9	<=30	PASS

	Ant1	5745	12.03	<=30	PASS
	Ant2	5745	13.87	<=30	PASS
	total	5745	16.1	<=30	PASS
	Ant1	5785	11.82	<=30	PASS
	Ant2	5785	13.49	<=30	PASS
	total	5785	15.7	<=30	PASS
	Ant1	5825	11.54	<=30	PASS
	Ant2	5825	13.36	<=30	PASS
	total	5825	15.6	<=30	PASS
11ax40MIMO	Ant1	5190	11.85	<=23.98	PASS
	Ant2	5190	13.50	<=23.98	PASS
	total	5190	15.8	<=23.98	PASS
	Ant1	5230	11.62	<=23.98	PASS
	Ant2	5230	13.48	<=23.98	PASS
	total	5230	15.7	<=23.98	PASS
	Ant1	5270	11.63	<=23.98	PASS
	Ant2	5270	13.21	<=23.98	PASS
	total	5270	15.5	<=23.98	PASS
	Ant1	5310	11.83	<=23.98	PASS
	Ant2	5310	13.37	<=23.98	PASS
	total	5310	15.7	<=23.98	PASS
	Ant1	5510	11.15	<=23.98	PASS
	Ant2	5510	12.55	<=23.98	PASS
	total	5510	14.9	<=23.98	PASS
	Ant1	5550	11.30	<=23.98	PASS
	Ant2	5550	12.63	<=23.98	PASS
	total	5550	15.0	<=23.98	PASS
	Ant1	5710_UNII-2C	10.68	<=23.98	PASS
	Ant2	5710_UNII-2C	10.40	<=23.98	PASS
	total	5710_UNII-2C	13.6	<=23.98	PASS
	Ant1	5710_UNII-3	0.05	<=30	PASS
	Ant2	5710_UNII-3	-0.16	<=30	PASS
	total	5710_UNII-3	3.0	<=30	PASS
	Ant1	5755	12.44	<=30	PASS
	Ant2	5755	13.97	<=30	PASS
	total	5755	16.3	<=30	PASS
	Ant1	5795	12.00	<=30	PASS
	Ant2	5795	13.79	<=30	PASS
	total	5795	16.0	<=30	PASS
11ax80MIMO	Ant1	5210	10.39	<=23.98	PASS
	Ant2	5210	12.18	<=23.98	PASS
	total	5210	14.4	<=23.98	PASS
	Ant1	5290	10.62	<=23.98	PASS
	Ant2	5290	12.22	<=23.98	PASS

	total	5290	14.5	≤ 23.98	PASS
	Ant1	5530	10.52	≤ 23.98	PASS
	Ant2	5530	11.57	≤ 23.98	PASS
	total	5530	14.1	≤ 23.98	PASS
	Ant1	5610	10.19	≤ 23.98	PASS
	Ant2	5610	12.38	≤ 23.98	PASS
	total	5610	14.4	≤ 23.98	PASS
	Ant1	5690_UNII-2C	10.08	≤ 23.98	PASS
	Ant2	5690_UNII-2C	9.95	≤ 23.98	PASS
	total	5690_UNII-2C	13.0	≤ 23.98	PASS
	Ant1	5690_UNII-3	-4.39	≤ 30	PASS
	Ant2	5690_UNII-3	-4.46	≤ 30	PASS
	total	5690_UNII-3	-1.4	≤ 30	PASS
	Ant1	5775	10.95	≤ 30	PASS
	Ant2	5775	12.82	≤ 30	PASS
	total	5775	15.0	≤ 30	PASS

Note: For cross band power test, used Spectrum Analyzer to test, other's for power meter to test

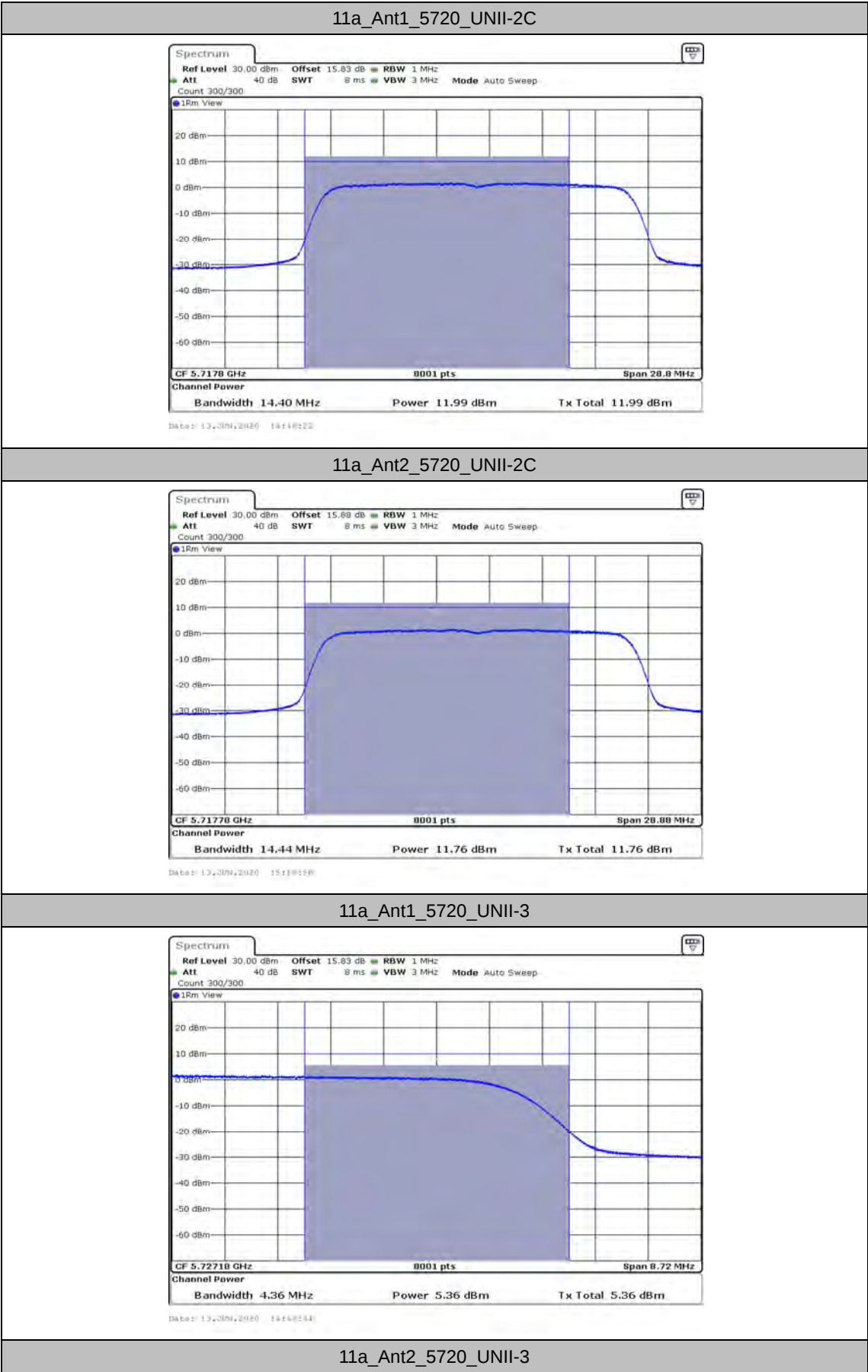
The maximum antenna gain is 2.0dBi. The device employed cyclic delay diversity (CDD) for Wi-Fi.

According to KDB 662911 D01 v02r01, for power measurement on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{Ant} \leq 4$

So Directional gain = $G_{ANT} + \text{Array Gain} = 2.0\text{dBi} < 6\text{dBi}$

Test Graphs





11N20MIMO_Ant1_5720_UNII-2C



11N20MIMO_Ant2_5720_UNII-2C



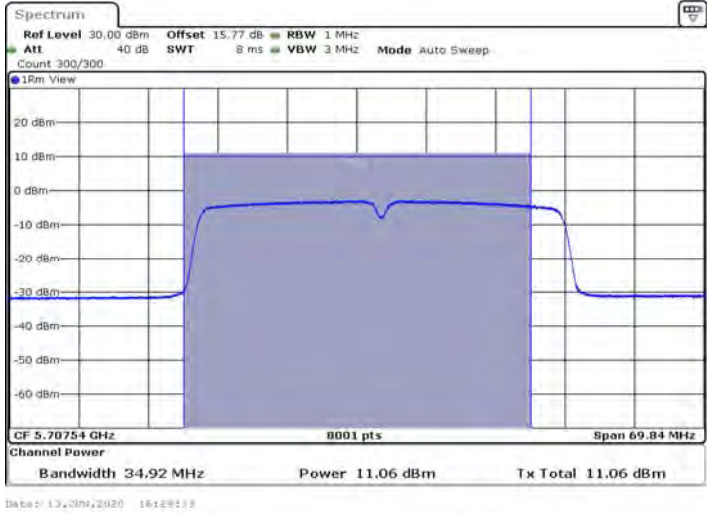
11N20MIMO_Ant1_5720_UNII-3



11N20MIMO_Ant2_5720_UNII-3



11N40MIMO_Ant1_5710_UNII-2C



11N40MIMO_Ant2_5710_UNII-2C



11N40MIMO_Ant1_5710_UNII-3



11N40MIMO_Ant2_5710_UNII-3



11ac20MIMO_Ant1_5720_UNII-2C

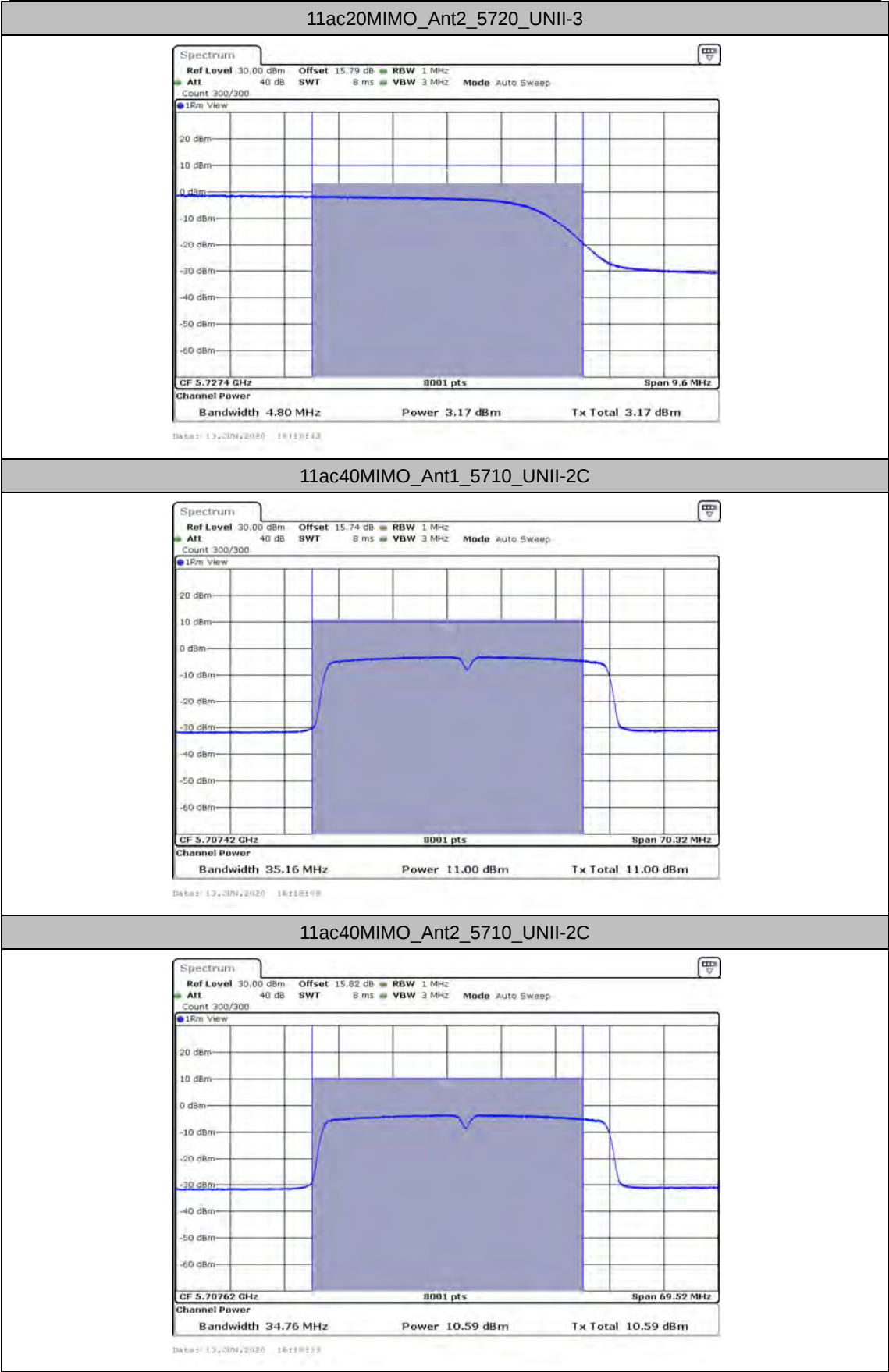


11ac20MIMO_Ant2_5720_UNII-2C



11ac20MIMO_Ant1_5720_UNII-3





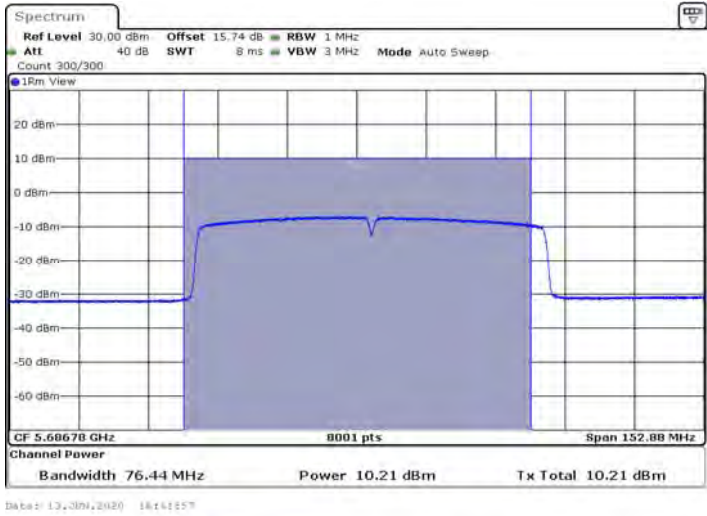
11ac40MIMO_Ant1_5710_UNII-3



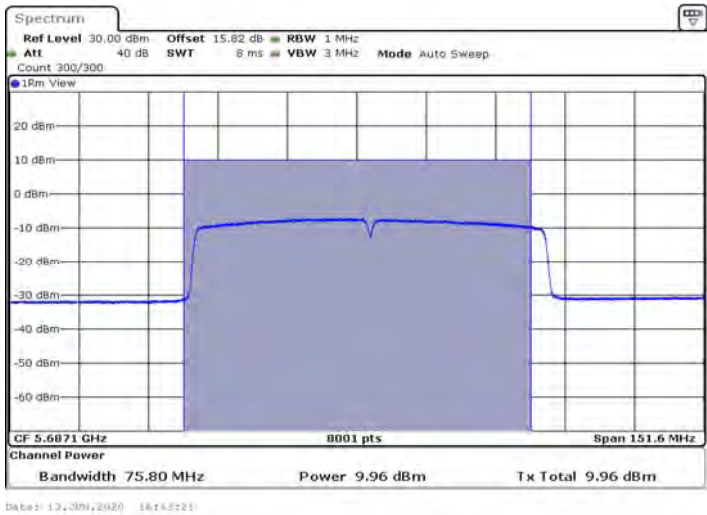
11ac40MIMO_Ant2_5710_UNII-3



11ac80MIMO_Ant1_5690_UNII-2C



11ac80MIMO_Ant2_5690_UNII-2C



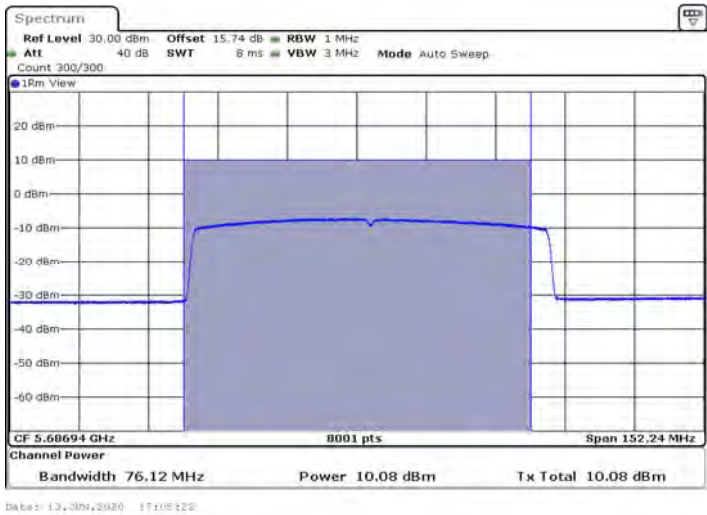
11ac80MIMO_Ant1_5690_UNII-3



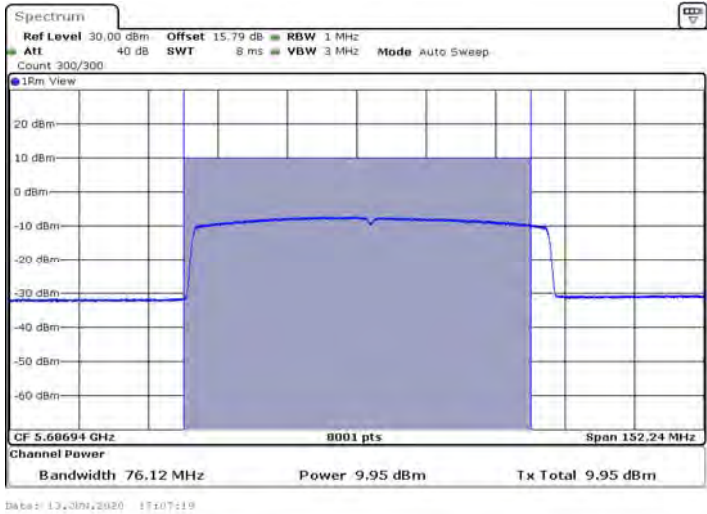
11ac80MIMO_Ant2_5690_UNII-3



11ax80MIMO_Ant1_5690_UNII-2C



11ax80MIMO_Ant2_5690_UNII-2C



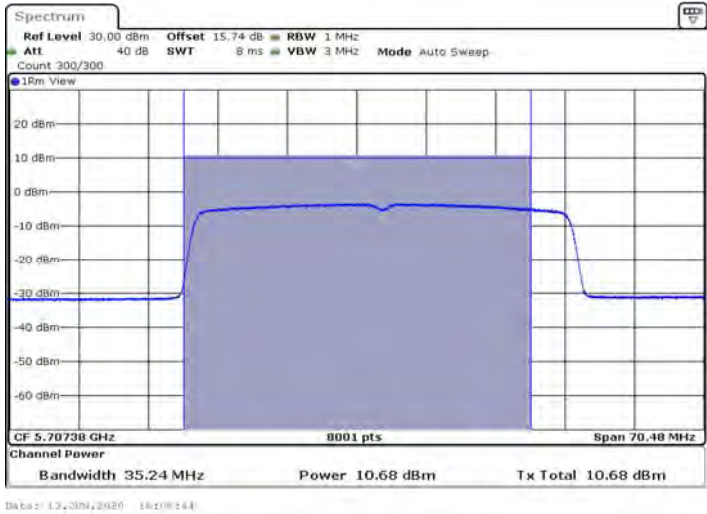
11ax80MIMO_Ant1_5690_UNII-3



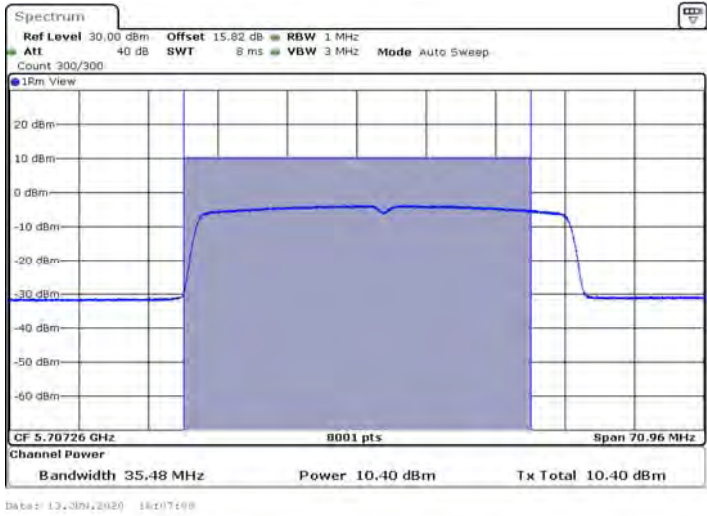
11ax80MIMO_Ant2_5690_UNII-3



11ax40MIMO_Ant1_5710_UNII-2C



11ax40MIMO_Ant2_5710_UNII-2C



11ax40MIMO_Ant1_5710_UNII-3



11ax40MIMO_Ant2_5710_UNII-3



11ax20MIMO_Ant1_5720_UNII-2C



11ax20MIMO_Ant2_5720_UNII-2C



11ax20MIMO_Ant1_5720_UNII-3



11ax20MIMO_Ant2_5720_UNII-3



AppendixC: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11a	Ant1	5180	8.33	<=11	PASS
	Ant2	5180	8.16	<=11	PASS
	Ant1	5200	8.29	<=11	PASS
	Ant2	5200	8.19	<=11	PASS
	Ant1	5240	7.01	<=11	PASS
	Ant2	5240	7.93	<=11	PASS
	Ant1	5260	8.76	<=11	PASS
	Ant2	5260	7.95	<=11	PASS
	Ant1	5280	8.58	<=11	PASS
	Ant2	5280	8.62	<=11	PASS
	Ant1	5320	8.55	<=11	PASS
	Ant2	5320	8.31	<=11	PASS
	Ant1	5500	8.8	<=11	PASS
	Ant2	5500	7.83	<=11	PASS
	Ant1	5600	8.19	<=11	PASS
	Ant2	5600	8.09	<=11	PASS
	Ant1	5720_UNII-2C	8.36	<=11	PASS
	Ant2	5720_UNII-2C	8.24	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5720_UNII-3	5.8	<=30	PASS
	Ant2	5720_UNII-3	4.85	<=30	PASS
	Ant1	5745	6.22	<=30	PASS
	Ant2	5745	6.37	<=30	PASS
	Ant1	5785	5.7	<=30	PASS
	Ant2	5785	6.02	<=30	PASS
	Ant1	5825	6.4	<=30	PASS
	Ant2	5825	6.2	<=30	PASS
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	Ant1	5180	6.65	<=11	PASS
	Ant2	5180	7.16	<=11	PASS
	total	5180	9.92	<=11	PASS
	Ant1	5200	6.24	<=11	PASS
	Ant2	5200	6.85	<=11	PASS
	total	5200	9.57	<=11	PASS
	Ant1	5240	6.49	<=11	PASS
	Ant2	5240	7.09	<=11	PASS
	total	5240	9.81	<=11	PASS
	Ant1	5260	7	<=11	PASS

	Ant2	5260	7.27	<=11	PASS
	total	5260	10.15	<=11	PASS
	Ant1	5280	6.78	<=11	PASS
	Ant2	5280	7.21	<=11	PASS
	total	5280	10.01	<=11	PASS
	Ant1	5320	6.53	<=11	PASS
	Ant2	5320	7.76	<=11	PASS
	total	5320	10.20	<=11	PASS
	Ant1	5500	6.64	<=11	PASS
	Ant2	5500	7.28	<=11	PASS
	total	5500	9.98	<=11	PASS
	Ant1	5600	5.97	<=11	PASS
	Ant2	5600	8.19	<=11	PASS
	total	5600	10.23	<=11	PASS
	Ant1	5720_UNII-2C	7.01	<=11	PASS
	Ant2	5720_UNII-2C	8.07	<=11	PASS
	total	5720_UNII-2C	10.58	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5720_UNII-3	4.01	<=30	PASS
	Ant2	5720_UNII-3	4.71	<=30	PASS
	total	5720_UNII-3	7.38	<=30	PASS
	Ant1	5745	6.07	<=30	PASS
	Ant2	5745	7.31	<=30	PASS
	total	5745	9.74	<=30	PASS
	Ant1	5785	6.45	<=30	PASS
	Ant2	5785	6.46	<=30	PASS
	total	5785	9.47	<=30	PASS
	Ant1	5825	6.39	<=30	PASS
	Ant2	5825	6.84	<=30	PASS
	total	5825	9.63	<=30	PASS
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N40MIMO	Ant1	5190	4.19	<=11	PASS
	Ant2	5190	5.19	<=11	PASS
	total	5190	7.73	<=11	PASS
	Ant1	5230	4.34	<=11	PASS
	Ant2	5230	5.25	<=11	PASS
	total	5230	7.83	<=11	PASS
	Ant1	5270	4.22	<=11	PASS
	Ant2	5270	5.72	<=11	PASS
	total	5270	8.04	<=11	PASS
	Ant1	5310	4.47	<=11	PASS
	Ant2	5310	5.4	<=11	PASS
	total	5310	7.97	<=11	PASS

	Ant1	5510	3.07	<=11	PASS
	Ant2	5510	3.89	<=11	PASS
	total	5510	6.51	<=11	PASS
	Ant1	5550	3.15	<=11	PASS
	Ant2	5550	3.61	<=11	PASS
	total	5550	6.40	<=11	PASS
	Ant1	5710_UNII-2C	3.44	<=11	PASS
	Ant2	5710_UNII-2C	4.71	<=11	PASS
	total	5710_UNII-2C	7.13	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5710_UNII-3	0.2	<=30	PASS
	Ant2	5710_UNII-3	0.74	<=30	PASS
	total	5710_UNII-3	3.49	<=30	PASS
	Ant1	5755	2.4	<=30	PASS
	Ant2	5755	3.22	<=30	PASS
	total	5755	5.84	<=30	PASS
	Ant1	5795	1.88	<=30	PASS
	Ant2	5795	2.71	<=30	PASS
	total	5795	5.33	<=30	PASS
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11ac20MIMO	Ant1	5180	6.59	<=11	PASS
	Ant2	5180	8.24	<=11	PASS
	total	5180	10.50	<=11	PASS
	Ant1	5200	6.39	<=11	PASS
	Ant2	5200	7.74	<=11	PASS
	total	5200	10.13	<=11	PASS
	Ant1	5240	6.56	<=11	PASS
	Ant2	5240	8	<=11	PASS
	total	5240	10.35	<=11	PASS
	Ant1	5260	6.8	<=11	PASS
	Ant2	5260	7.25	<=11	PASS
	total	5260	10.04	<=11	PASS
	Ant1	5280	6.74	<=11	PASS
	Ant2	5280	7.86	<=11	PASS
	total	5280	10.35	<=11	PASS
	Ant1	5320	6.94	<=11	PASS
	Ant2	5320	8.15	<=11	PASS
	total	5320	10.60	<=11	PASS
	Ant1	5500	7.01	<=11	PASS
	Ant2	5500	7.19	<=11	PASS
	total	5500	10.11	<=11	PASS
	Ant1	5600	5.96	<=11	PASS
	Ant2	5600	7.92	<=11	PASS

	total	5600	10.06	<=11	PASS
	Ant1	5720_UNII-2C	6.4	<=11	PASS
	Ant2	5720_UNII-2C	8.1	<=11	PASS
	total	5720_UNII-2C	10.34	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5720_UNII-3	3.01	<=30	PASS
	Ant2	5720_UNII-3	4.52	<=30	PASS
	total	5720_UNII-3	6.84	<=30	PASS
	Ant1	5745	6	<=30	PASS
	Ant2	5745	7.26	<=30	PASS
	total	5745	9.69	<=30	PASS
	Ant1	5785	5.64	<=30	PASS
	Ant2	5785	7.1	<=30	PASS
	total	5785	9.44	<=30	PASS
	Ant1	5825	5.86	<=30	PASS
	Ant2	5825	7.43	<=30	PASS
	total	5825	9.73	<=30	PASS
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11ac40MIMO	Ant1	5190	3.68	<=11	PASS
	Ant2	5190	4.19	<=11	PASS
	total	5190	6.95	<=11	PASS
	Ant1	5230	3.35	<=11	PASS
	Ant2	5230	4.74	<=11	PASS
	total	5230	7.11	<=11	PASS
	Ant1	5270	3.77	<=11	PASS
	Ant2	5270	4.93	<=11	PASS
	total	5270	7.40	<=11	PASS
	Ant1	5310	3.93	<=11	PASS
	Ant2	5310	4.34	<=11	PASS
	total	5310	7.15	<=11	PASS
	Ant1	5510	3.56	<=11	PASS
	Ant2	5510	4.56	<=11	PASS
	total	5510	7.10	<=11	PASS
	Ant1	5550	3.28	<=11	PASS
	Ant2	5550	3.76	<=11	PASS
	total	5550	6.54	<=11	PASS
	Ant1	5710_UNII-2C	3.66	<=11	PASS
	Ant2	5710_UNII-2C	4.99	<=11	PASS
	total	5710_UNII-2C	7.39	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5710_UNII-3	0.07	<=30	PASS
	Ant2	5710_UNII-3	1.46	<=30	PASS

	total	5710_UNII-3	3.83	<=30	PASS
	Ant1	5755	2.17	<=30	PASS
	Ant2	5755	1.79	<=30	PASS
	total	5755	4.99	<=30	PASS
	Ant1	5795	1.03	<=30	PASS
	Ant2	5795	1.31	<=30	PASS
	total	5795	4.18	<=30	PASS
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11ac80MIMO	Ant1	5210	-1.31	<=11	PASS
	Ant2	5210	-0.57	<=11	PASS
	total	5210	2.09	<=11	PASS
	Ant1	5290	-0.46	<=11	PASS
	Ant2	5290	0.17	<=11	PASS
	total	5290	2.88	<=11	PASS
	Ant1	5530	-0.77	<=11	PASS
	Ant2	5530	0.82	<=11	PASS
	total	5530	3.11	<=11	PASS
	Ant1	5610	-0.98	<=11	PASS
	Ant2	5610	-0.01	<=11	PASS
	total	5610	2.54	<=11	PASS
	Ant1	5690_UNII-2C	-0.82	<=11	PASS
	Ant2	5690_UNII-2C	0.29	<=11	PASS
	total	5690_UNII-2C	2.78	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5690_UNII-3	-5.59	<=30	PASS
	Ant2	5690_UNII-3	-3.57	<=30	PASS
	total	5690_UNII-3	-1.45	<=30	PASS
	Ant1	5775	-1.29	<=30	PASS
	Ant2	5775	-1.98	<=30	PASS
	total	5775	1.39	<=30	PASS
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11ax20MIMO	Ant1	5180	6.85	<=11	PASS
	Ant2	5180	6.9	<=11	PASS
	total	5180	9.89	<=11	PASS
11ax40MIMO	Ant1	5190	4.81	<=11	PASS
	Ant2	5190	4.65	<=11	PASS
	total	5190	7.74	<=11	PASS
11ax20MIMO	Ant1	5200	7.39	<=11	PASS
	Ant2	5200	6.37	<=11	PASS
	total	5200	9.92	<=11	PASS
11ax80MIMO	Ant1	5210	-1.13	<=11	PASS
	Ant2	5210	0.93	<=11	PASS
	total	5210	3.92	<=11	PASS

11ax40MIMO	Ant1	5230	4.68	<=11	PASS
	Ant2	5230	4.46	<=11	PASS
	total	5230	7.58	<=11	PASS
11ax20MIMO	Ant1	5240	7.28	<=11	PASS
	Ant2	5240	6.27	<=11	PASS
	total	5240	9.81	<=11	PASS
	Ant1	5260	7.08	<=11	PASS
	Ant2	5260	6.53	<=11	PASS
	total	5260	9.82	<=11	PASS
11ax40MIMO	Ant1	5270	6.26	<=11	PASS
	Ant2	5270	5.2	<=11	PASS
	total	5270	8.77	<=11	PASS
11ax20MIMO	Ant1	5280	7.35	<=11	PASS
	Ant2	5280	7.04	<=11	PASS
	total	5280	10.21	<=11	PASS
11ax80MIMO	Ant1	5290	1.49	<=11	PASS
	Ant2	5290	1.39	<=11	PASS
	total	5290	4.45	<=11	PASS
11ax40MIMO	Ant1	5310	6.19	<=11	PASS
	Ant2	5310	5.87	<=11	PASS
	total	5310	9.04	<=11	PASS
11ax20MIMO	Ant1	5320	7.34	<=11	PASS
	Ant2	5320	6.41	<=11	PASS
	total	5320	9.91	<=11	PASS
	Ant1	5500	6.98	<=11	PASS
	Ant2	5500	6.71	<=11	PASS
	total	5500	9.86	<=11	PASS
11ax40MIMO	Ant1	5510	5.69	<=11	PASS
	Ant2	5510	4.15	<=11	PASS
	total	5510	8.00	<=11	PASS
11ax80MIMO	Ant1	5530	1.52	<=11	PASS
	Ant2	5530	0.14	<=11	PASS
	total	5530	3.89	<=11	PASS
11ax40MIMO	Ant1	5550	4.95	<=11	PASS
	Ant2	5550	4.68	<=11	PASS
	total	5550	7.83	<=11	PASS
11ax20MIMO	Ant1	5600	7.14	<=11	PASS
	Ant2	5600	6.85	<=11	PASS
	total	5600	10.01	<=11	PASS
11ax80MIMO	Ant1	5610	1.09	<=11	PASS
	Ant2	5610	1.49	<=11	PASS
	total	5610	4.30	<=11	PASS
	Ant1	5690_UNII-2C	1.55	<=11	PASS
	Ant2	5690_UNII-2C	1.94	<=11	PASS

	total	5690_UNII-2C	4.76	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5690_UNII-3	-3.29	<=30	PASS
	Ant2	5690_UNII-3	-3.59	<=30	PASS
	total	5690_UNII-3	-0.43	<=30	PASS
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11ax40MIMO	Ant1	5710_UNII-2C	5.53	<=11	PASS
	Ant2	5710_UNII-2C	5.79	<=11	PASS
	total	5710_UNII-2C	8.67	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5710_UNII-3	1.12	<=30	PASS
	Ant2	5710_UNII-3	1.29	<=30	PASS
	total	5710_UNII-3	4.22	<=30	PASS
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11ax20MIMO	Ant1	5720_UNII-2C	7.41	<=11	PASS
	Ant2	5720_UNII-2C	7.32	<=11	PASS
	total	5720_UNII-2C	10.38	<=11	PASS
	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
	Ant1	5720_UNII-3	4.86	<=30	PASS
	Ant2	5720_UNII-3	3.94	<=30	PASS
	total	5720_UNII-3	7.43	<=30	PASS
	Ant1	5745	6.3	<=30	PASS
	Ant2	5745	5.83	<=30	PASS
	total	5745	9.08	<=30	PASS
11ax40MIMO	Ant1	5755	3.45	<=30	PASS
	Ant2	5755	3.57	<=30	PASS
	total	5755	6.52	<=30	PASS
11ax80MIMO	Ant1	5775	-1.75	<=30	PASS
	Ant2	5775	-1.11	<=30	PASS
	total	5775	1.59	<=30	PASS
11ax20MIMO	Ant1	5785	5.82	<=30	PASS
	Ant2	5785	5.79	<=30	PASS
	total	5785	8.82	<=30	PASS
11ax40MIMO	Ant1	5795	3.47	<=30	PASS
	Ant2	5795	3.34	<=30	PASS
	total	5795	6.42	<=30	PASS
11ax20MIMO	Ant1	5825	6.05	<=30	PASS
	Ant2	5825	5.5	<=30	PASS
	total	5825	8.79	<=30	PASS

Note: 1.The result and limit unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. The maximum antenna gain is 2.0dBi. The device employed cyclic delay diversity (CDD) for Wi-Fi.

According to KDB 662911 D01 v02r01, for power spectral density (PSD):

$$\text{Array Gain} = 10 \lg(N_{\text{ANT}}/N_{\text{SS}}) \text{ dB} = 10 \lg(2/1) = 3$$

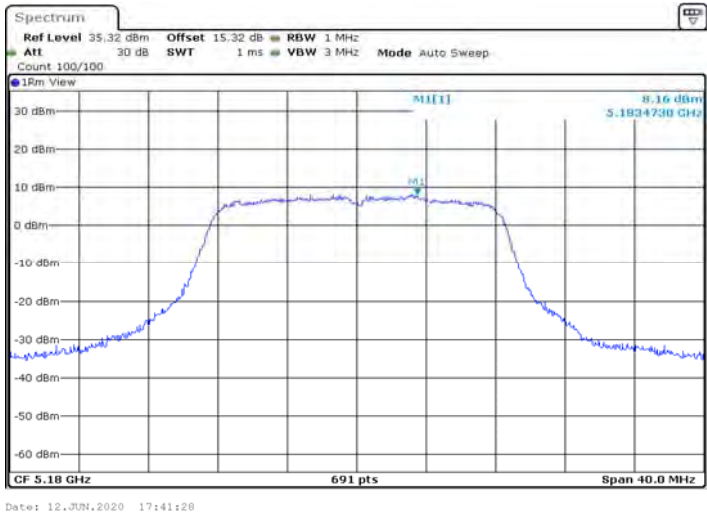
So Directional gain = Gain + Array Gain = 5dBi < 6dBi

Test Graphs

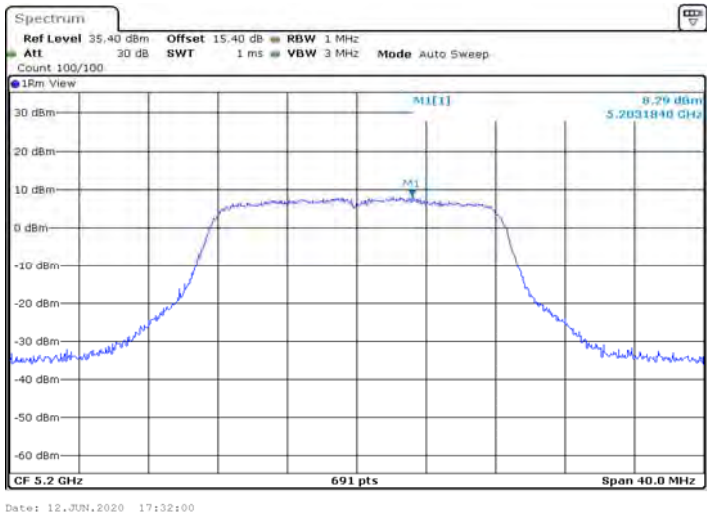
11a_Ant1_5180



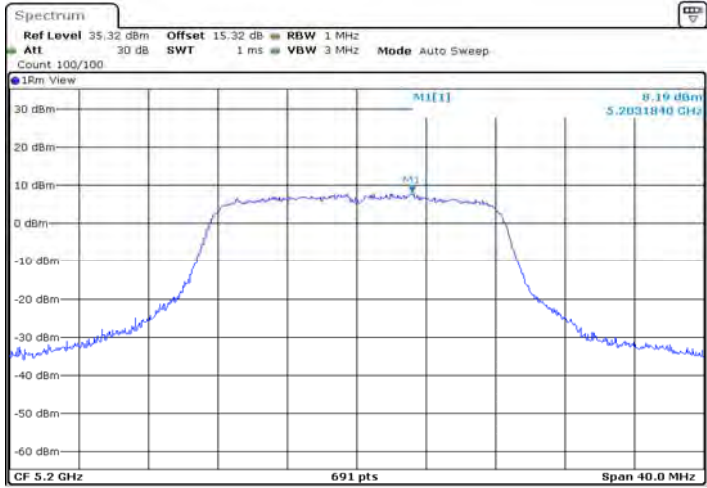
11a_Ant2_5180



11a_Ant1_5200

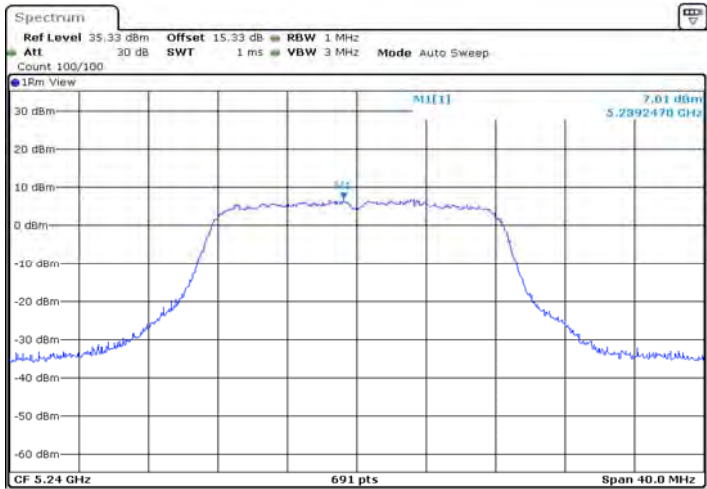


11a_Ant2_5200



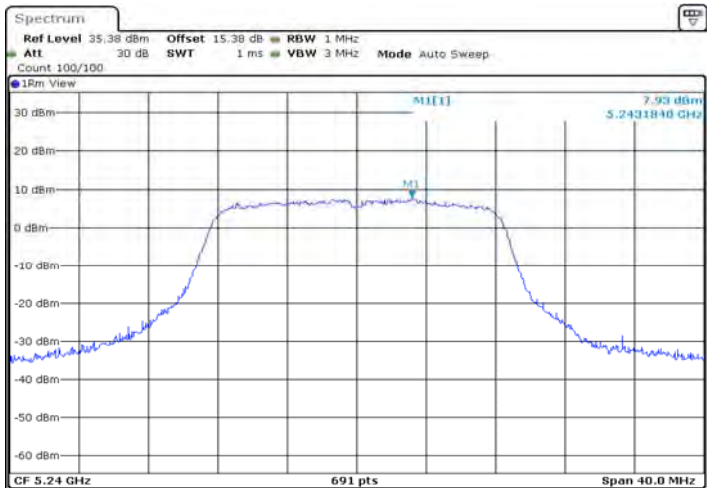
Date: 12.JUN.2020 17:44:26

11A_Ant1_5240



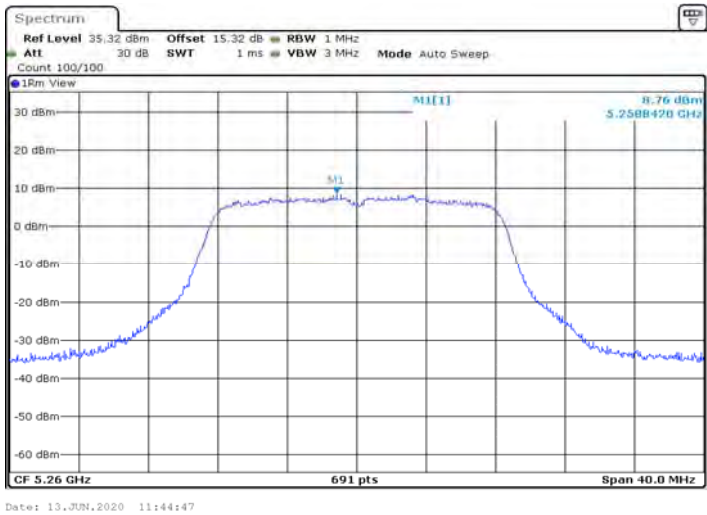
Date: 23.JUN.2020 16:19:41

11a_Ant2_5240



Date: 11.JUN.2020 19:09:36

11a_Ant1_5260



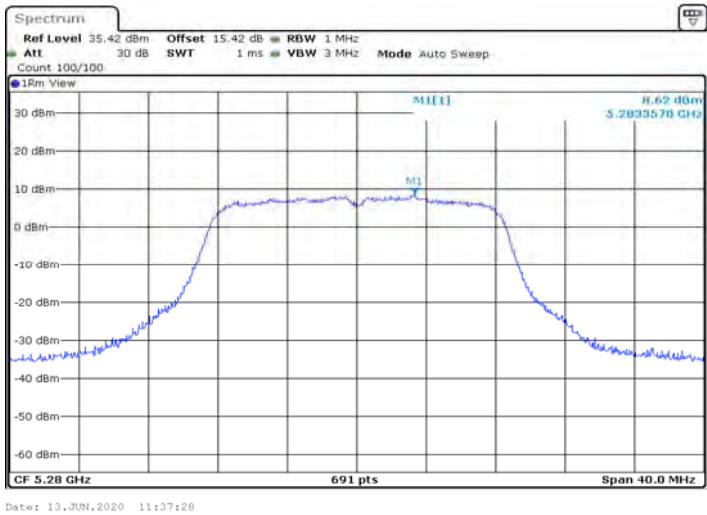
11a_Ant2_5260



11a_Ant1_5280



11a_Ant2_5280



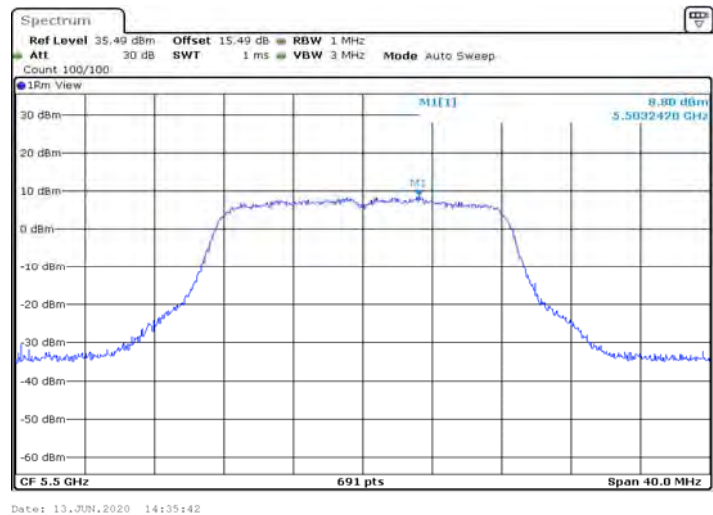
11a_Ant1_5320



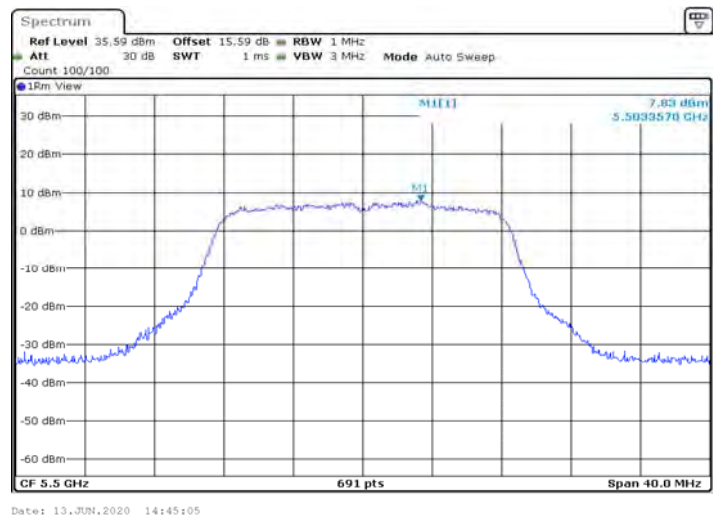
11a_Ant2_5320



11a_Ant1_5500



11a_Ant2_5500



11a_Ant1_5600



11a_Ant2_5600



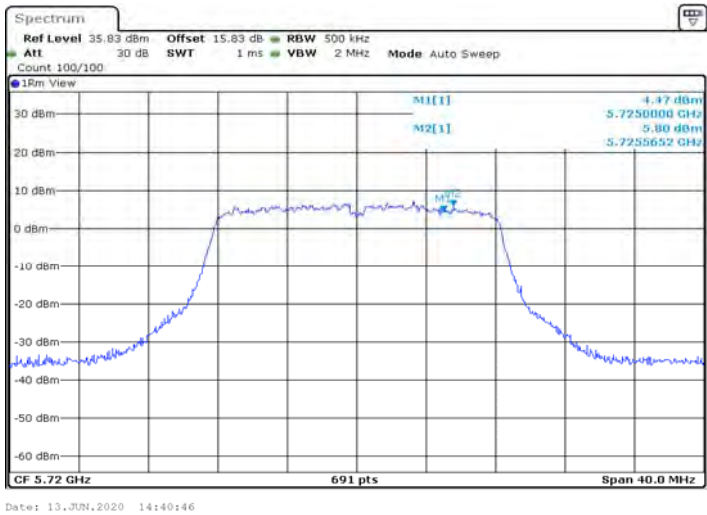
11a_Ant1_5720_UNII-2C



11a_Ant2_5720_UNII-2C



11a_Ant1_5720_UNII-3



11a_Ant2_5720_UNII-3



11a_Ant1_5745



11a_Ant2_5745



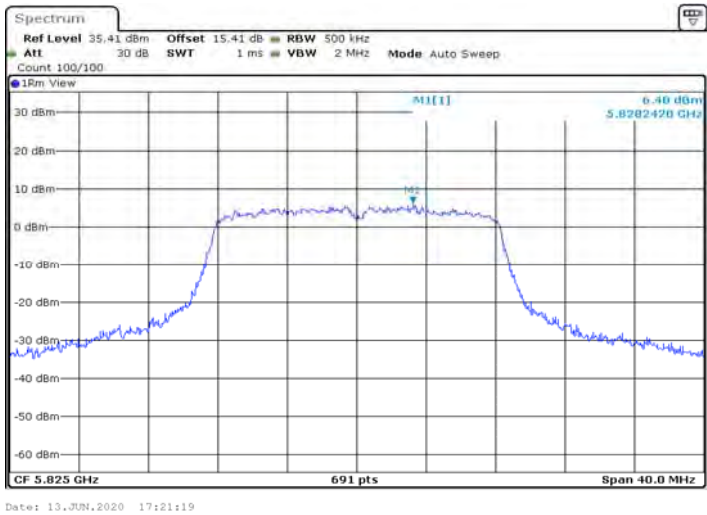
11a_Ant1_5785



11a_Ant2_5785



11a_Ant1_5825



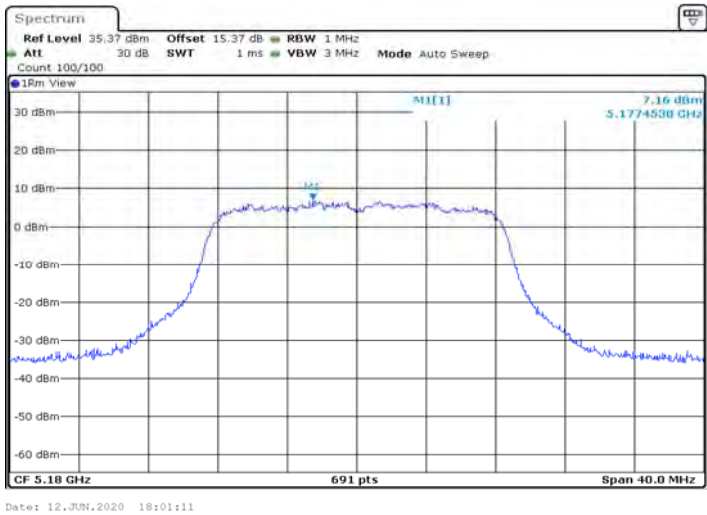
11a_Ant2_5825



11N20MIMO_Ant1_5180



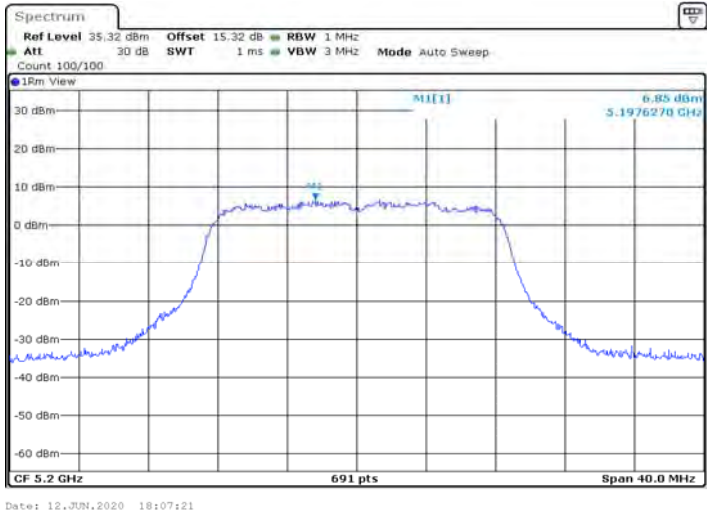
11N20MIMO_Ant2_5180



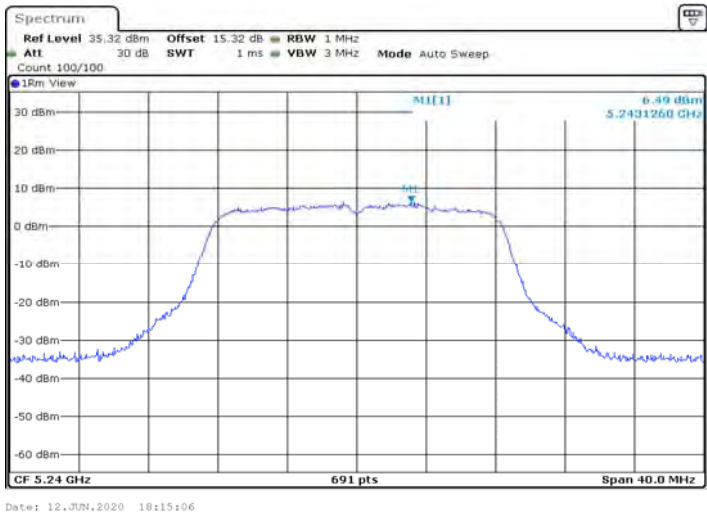
11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240



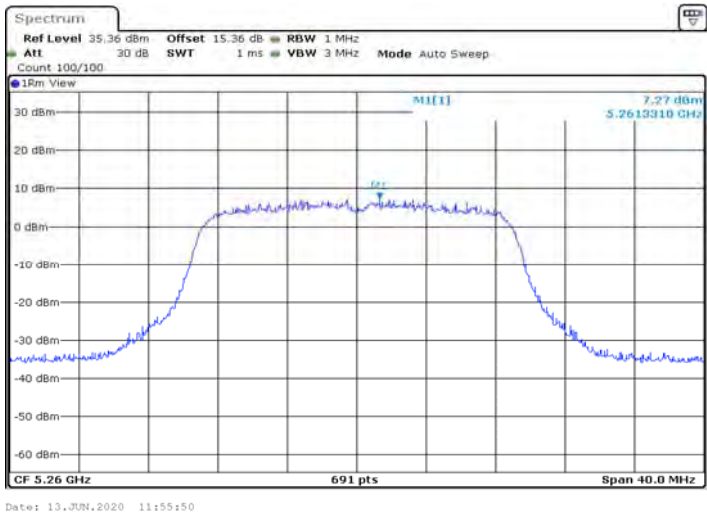
11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5260



11N20MIMO_Ant2_5260



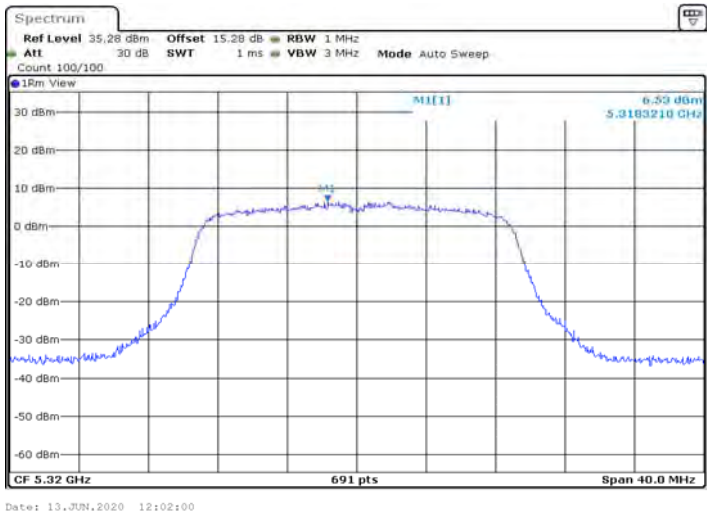
11N20MIMO_Ant1_5280



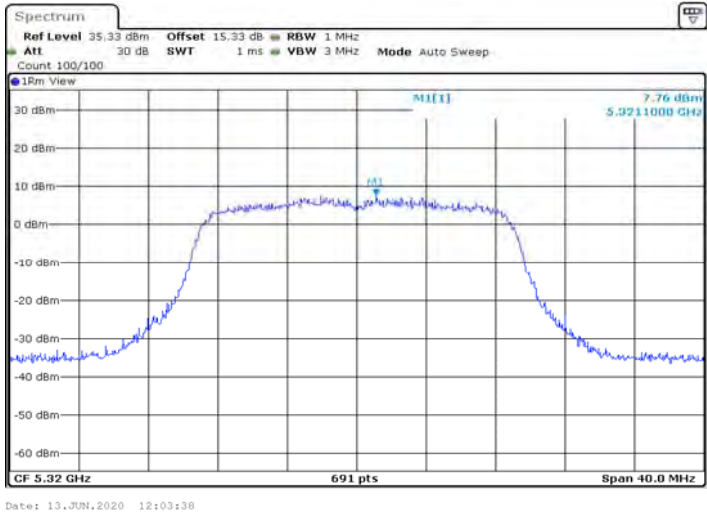
11N20MIMO_Ant2_5280



11N20MIMO_Ant1_5320



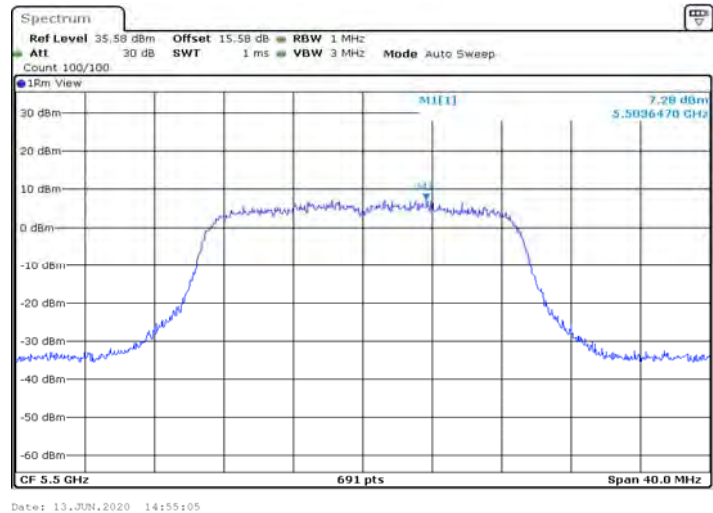
11N20MIMO_Ant2_5320



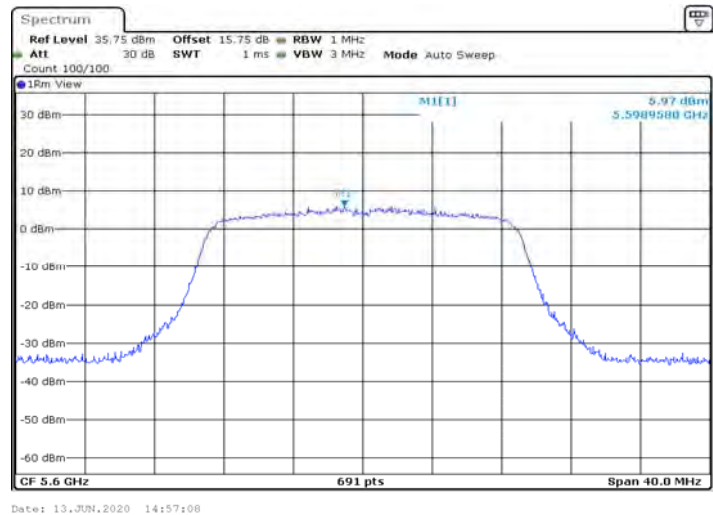
11N20MIMO_Ant1_5500



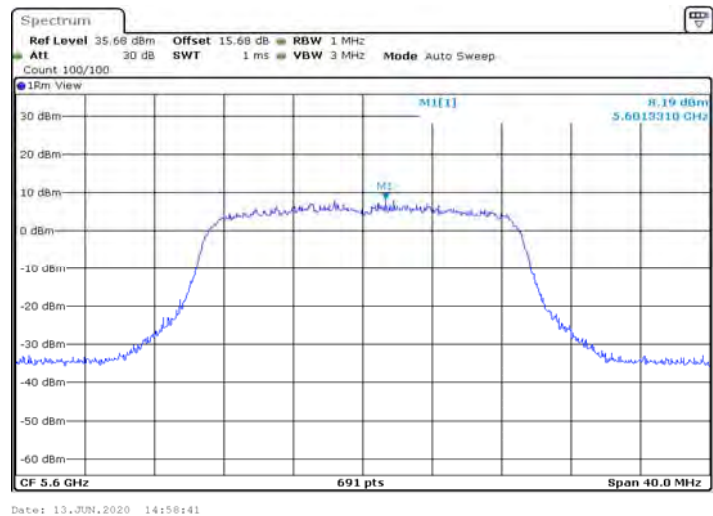
11N20MIMO_Ant2_5500



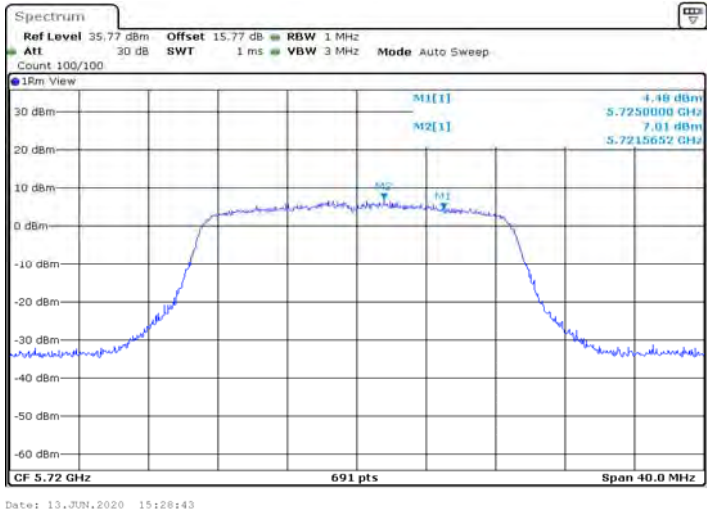
11N20MIMO_Ant1_5600



11N20MIMO_Ant2_5600



11N20MIMO_Ant1_5720_UNII-2C



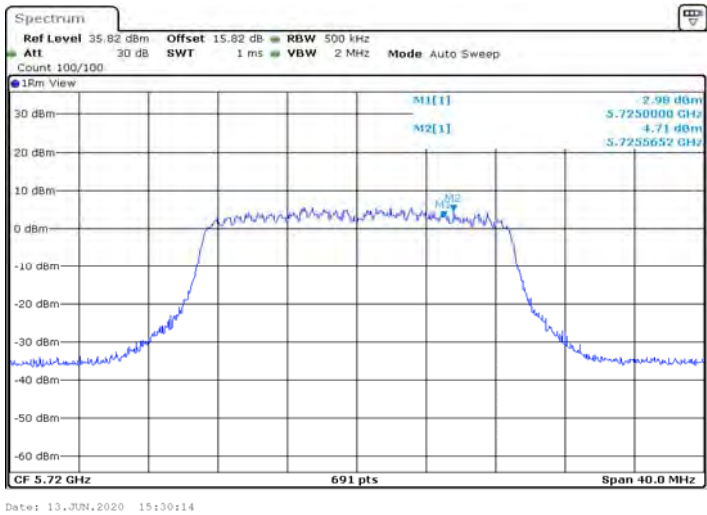
11N20MIMO_Ant2_5720_UNII-2C



11N20MIMO_Ant1_5720_UNII-3



11N20MIMO_Ant2_5720_UNII-3



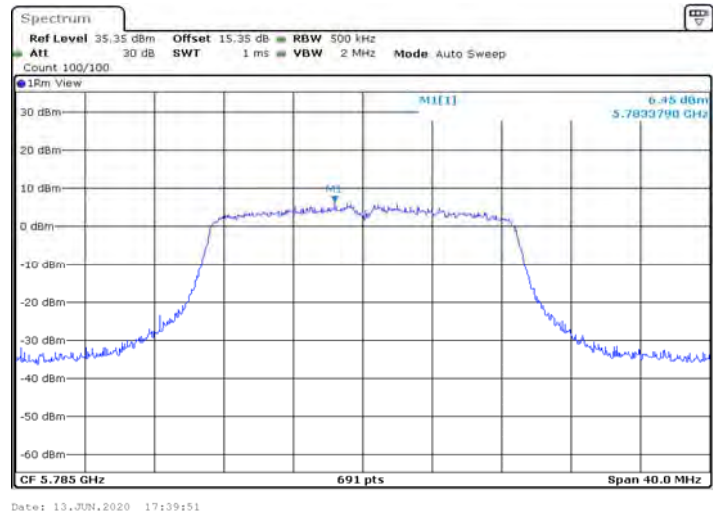
11N20MIMO_Ant1_5745



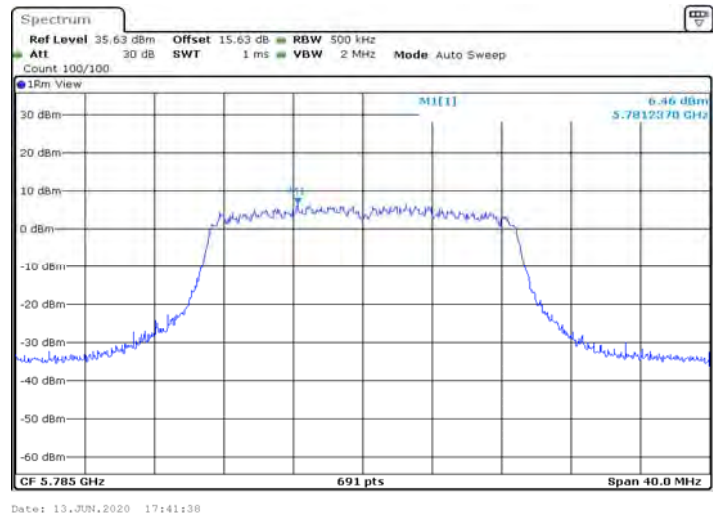
11N20MIMO_Ant2_5745



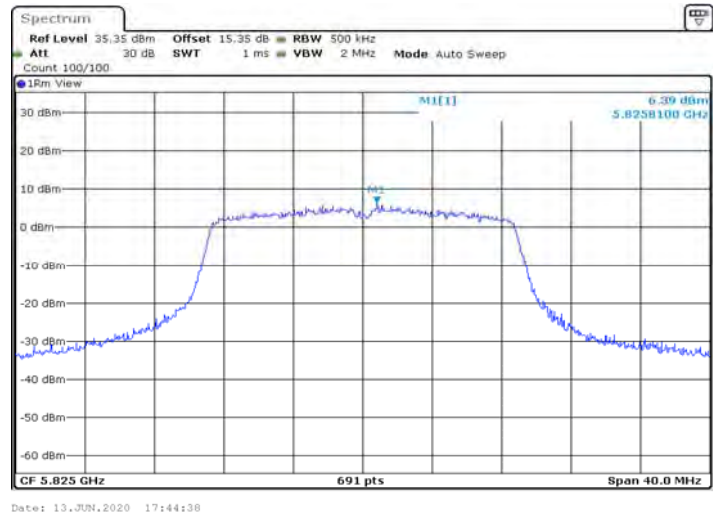
11N20MIMO_Ant1_5785



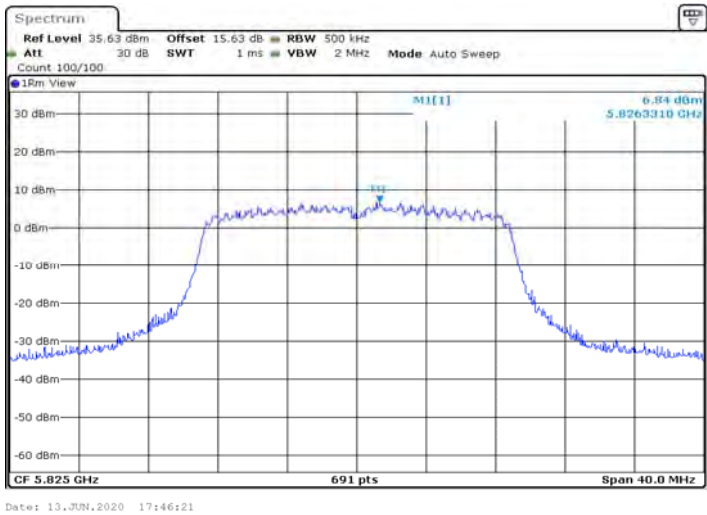
11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



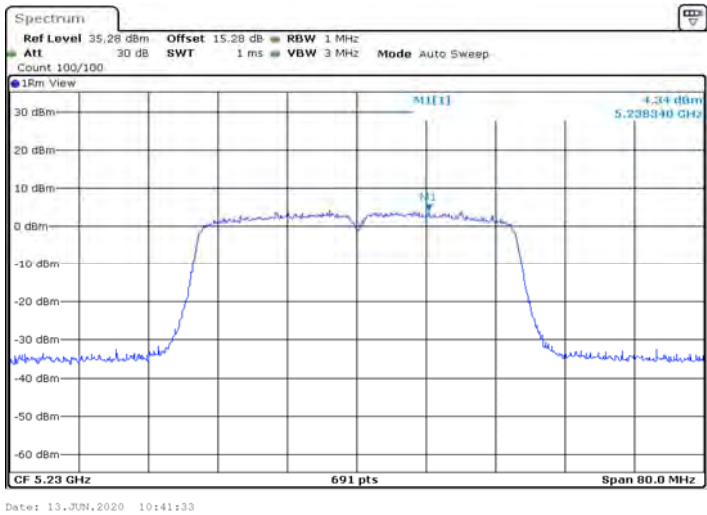
11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5270



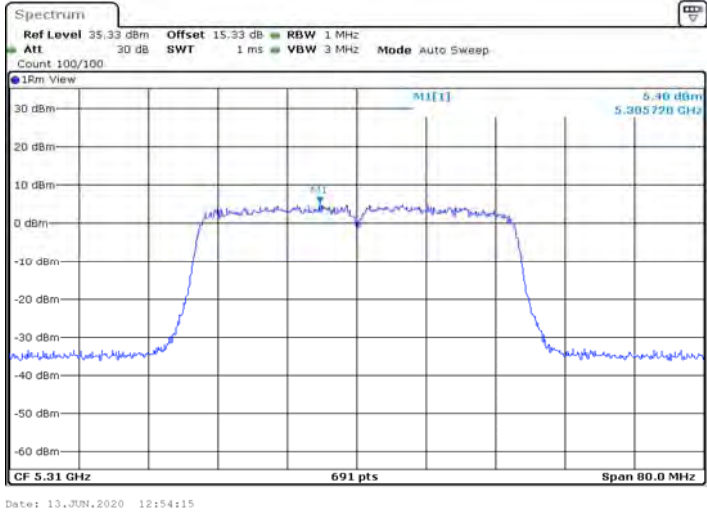
11N40MIMO_Ant2_5270



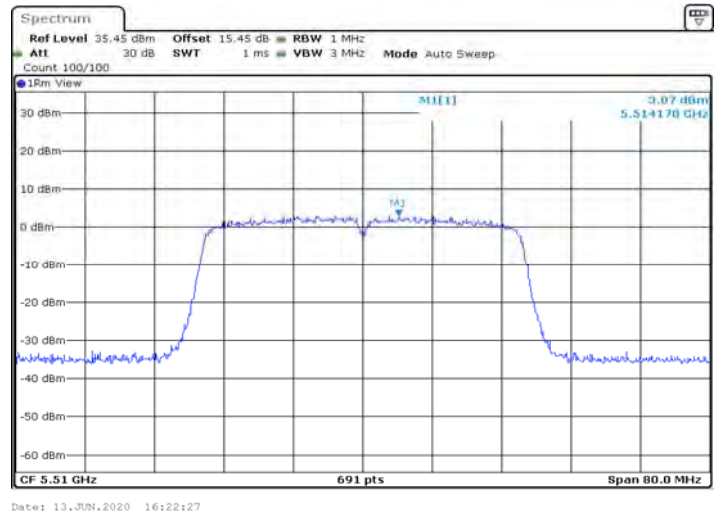
11N40MIMO_Ant1_5310



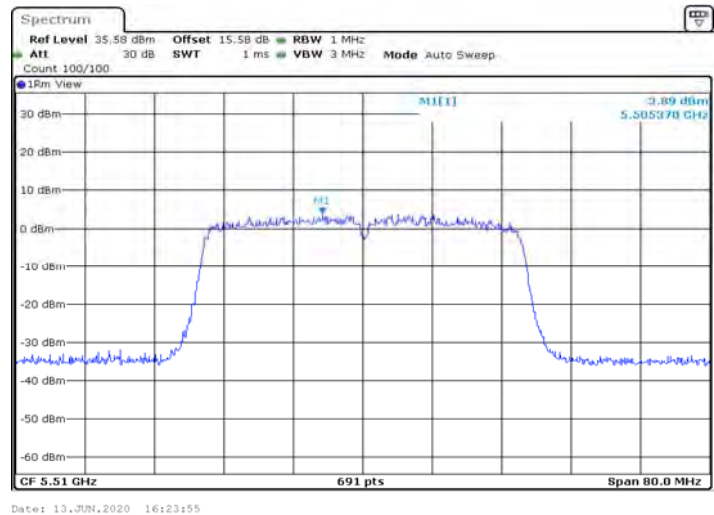
11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



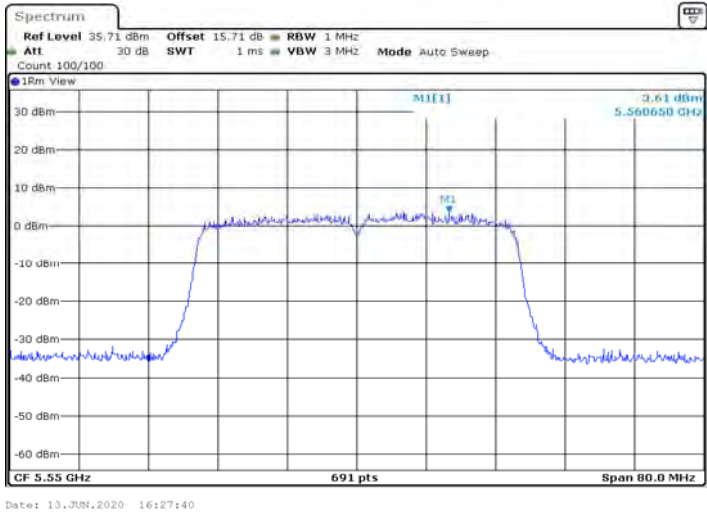
11N40MIMO_Ant2_5510



11N40MIMO_Ant1_5550



11N40MIMO_Ant2_5550



11N40MIMO_Ant1_5710_UNII-2C



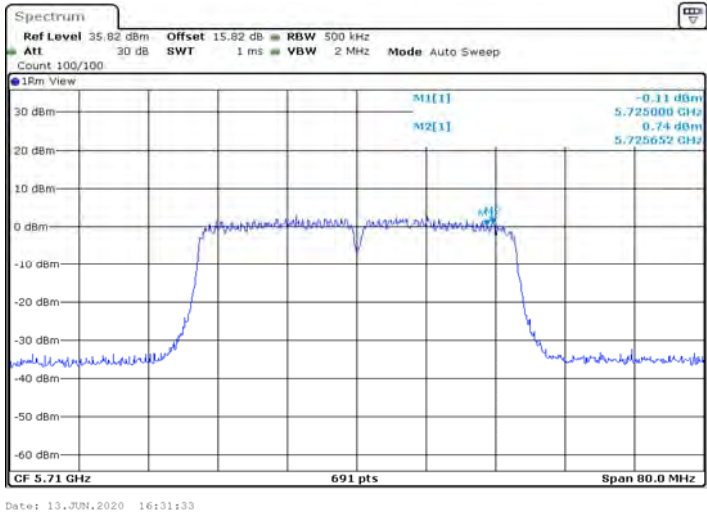
11N40MIMO_Ant2_5710_UNII-2C



11N40MIMO_Ant1_5710_UNII-3



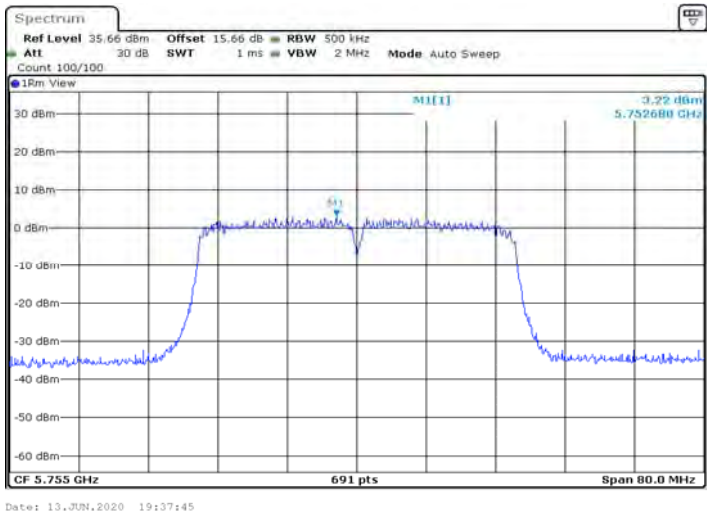
11N40MIMO_Ant2_5710_UNII-3



11N40MIMO_Ant1_5755



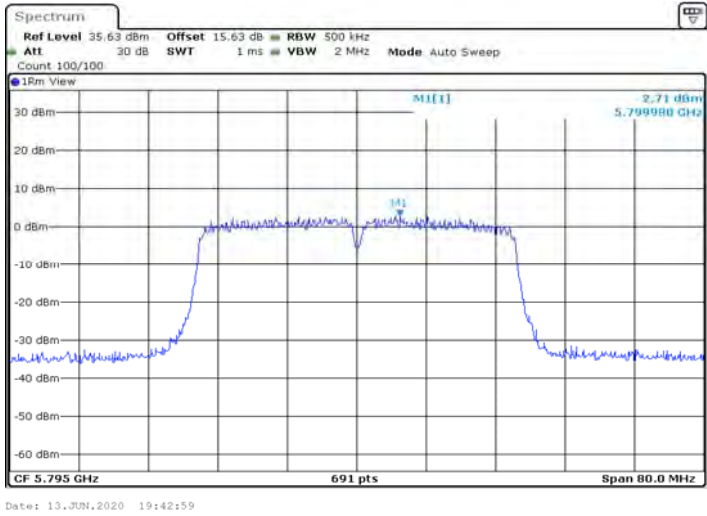
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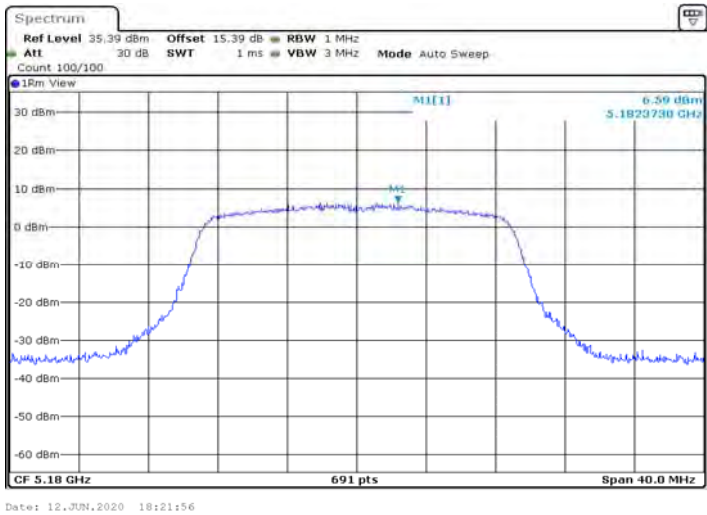
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11N40MIMO_Ant2_5795



11ac20MIMO_Ant1_5180



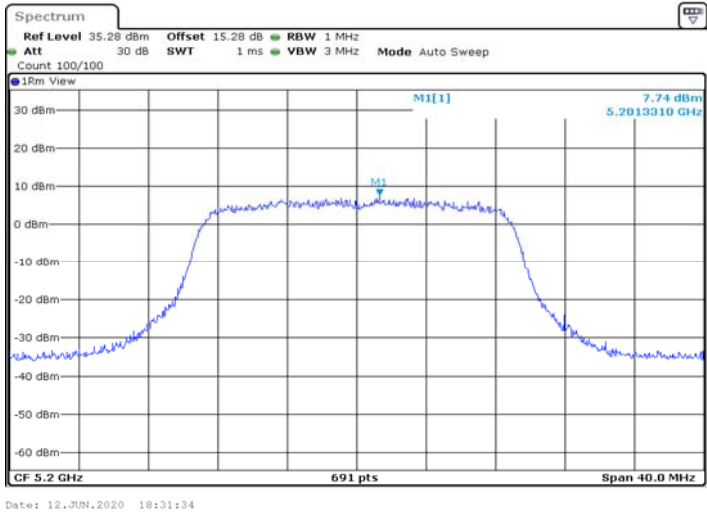
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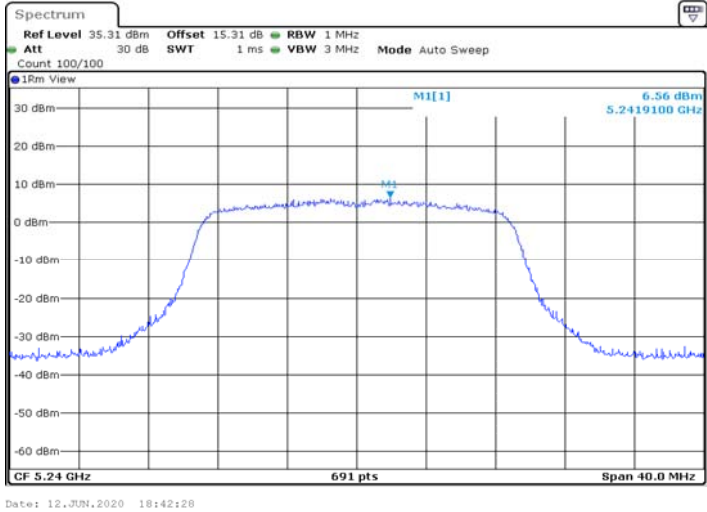
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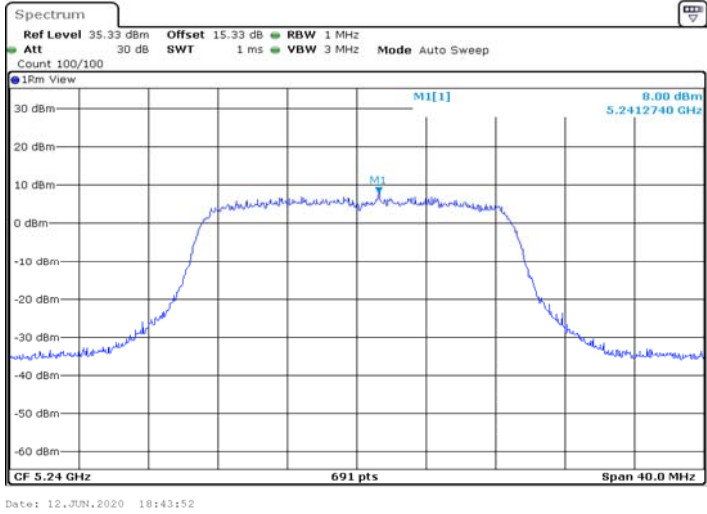
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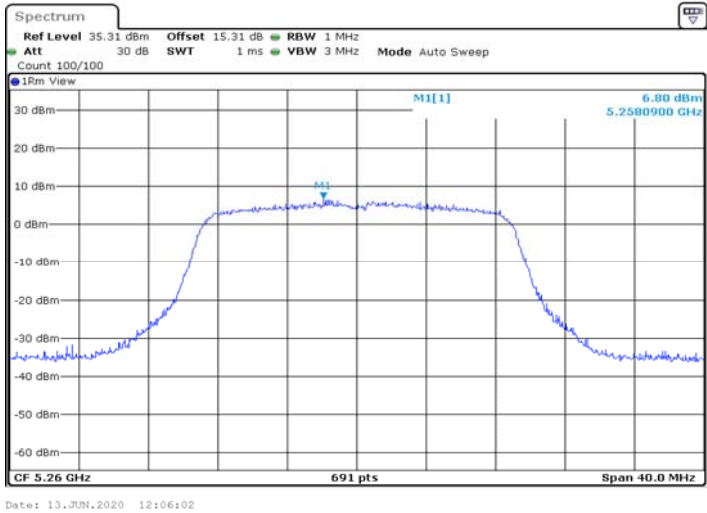
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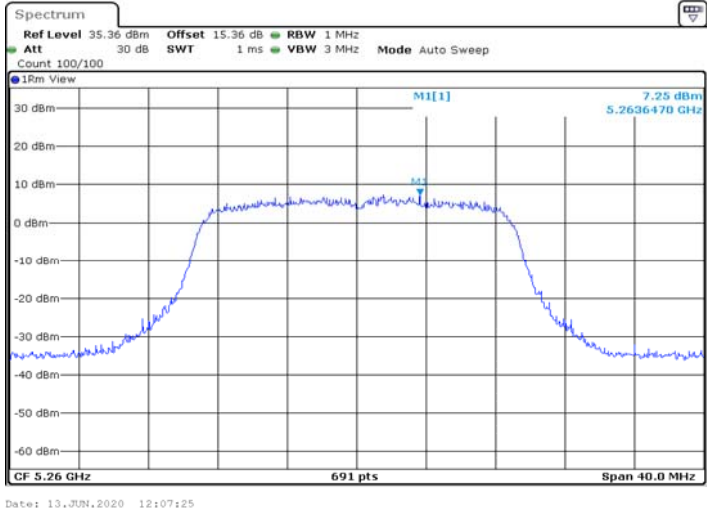
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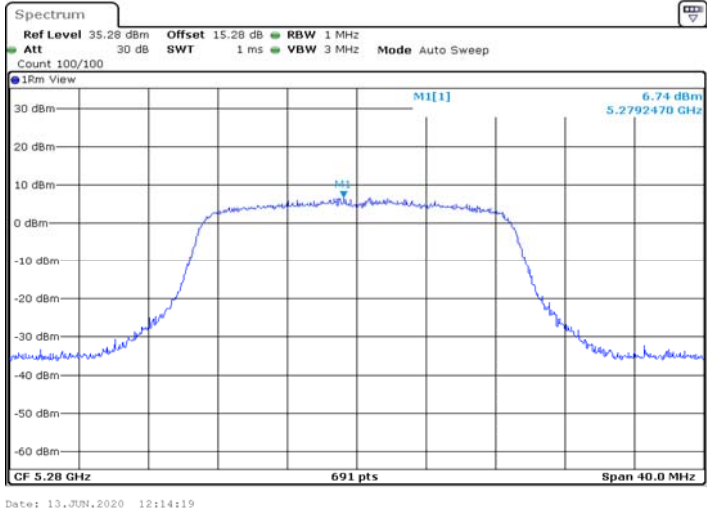
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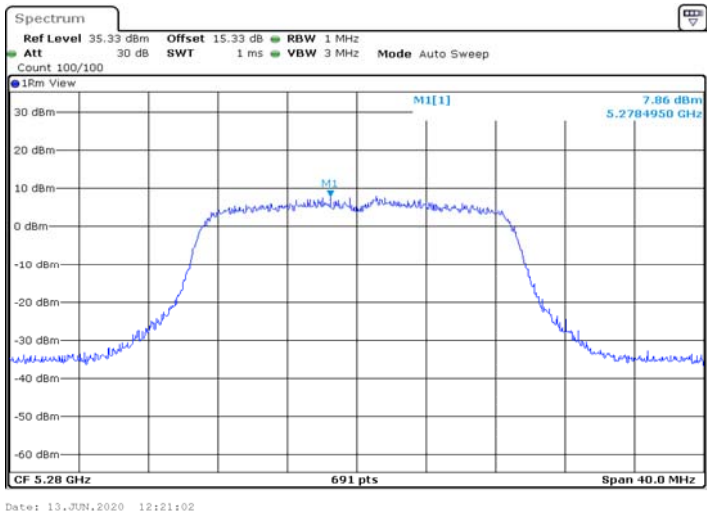
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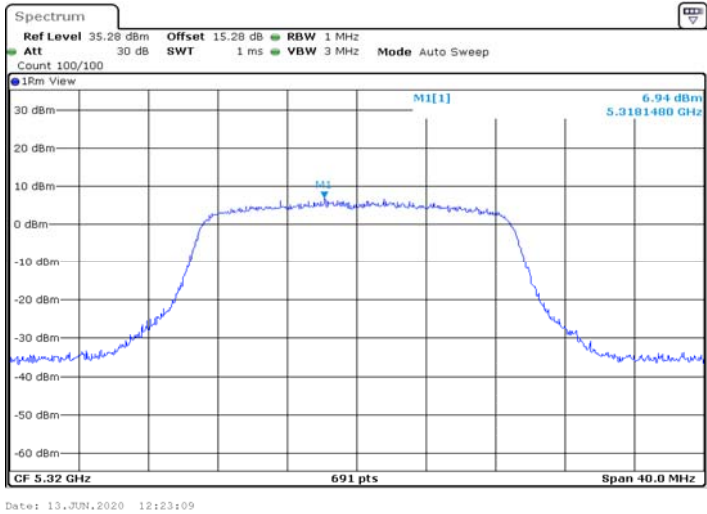
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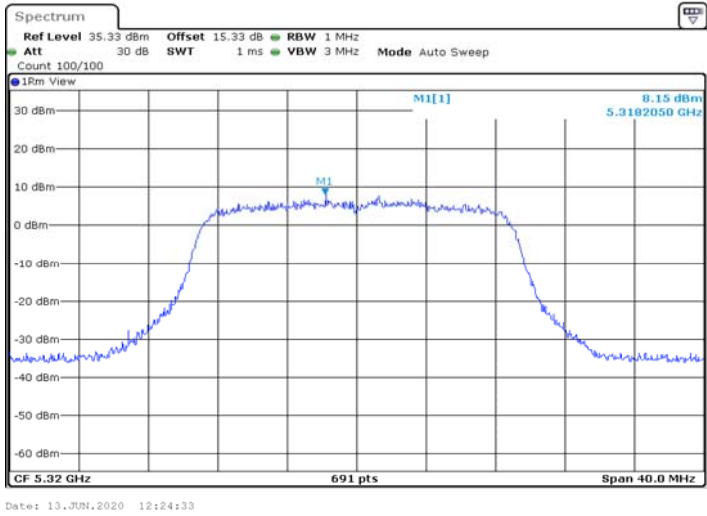
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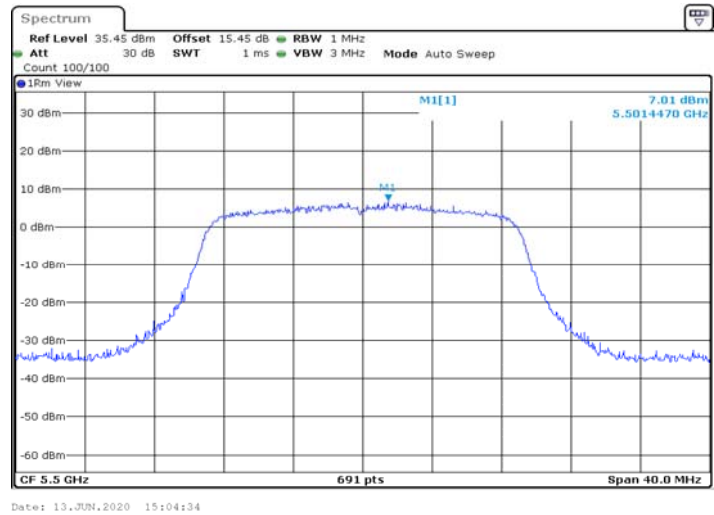
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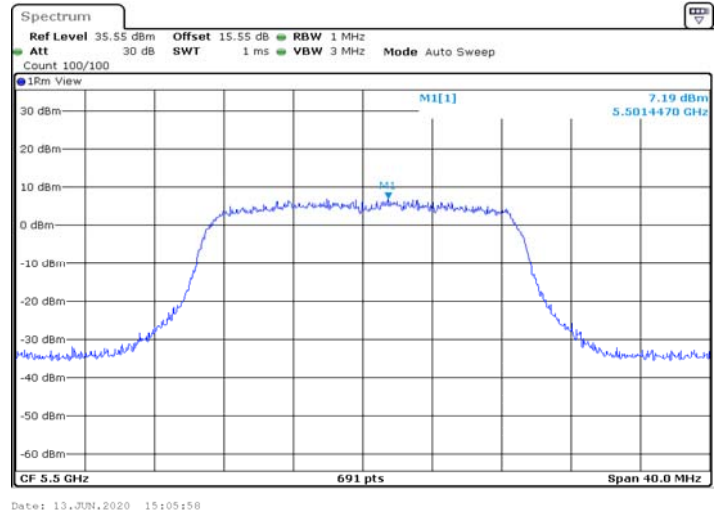
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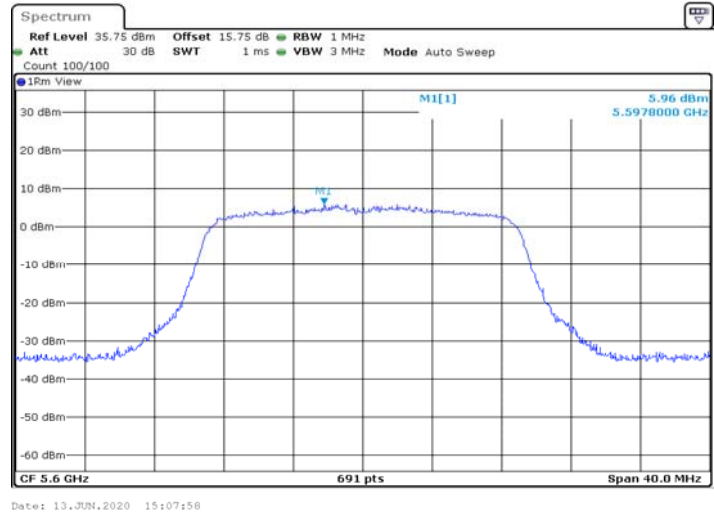
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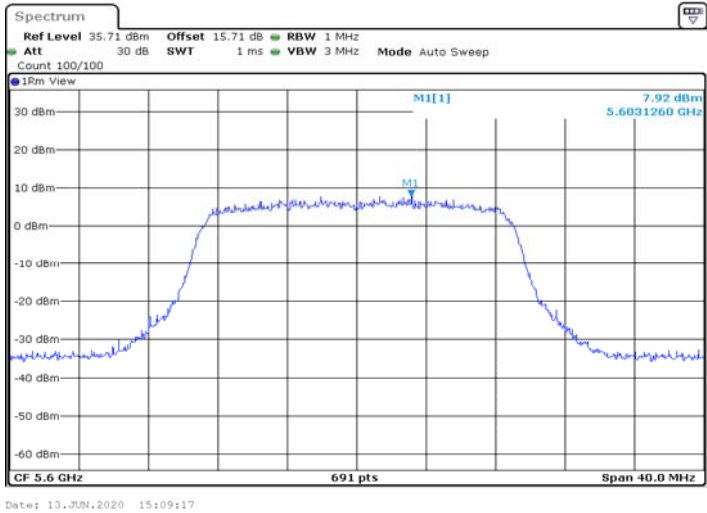
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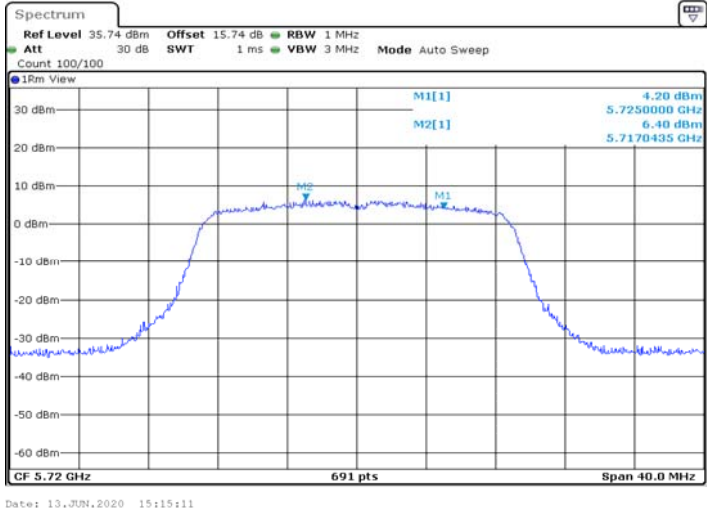
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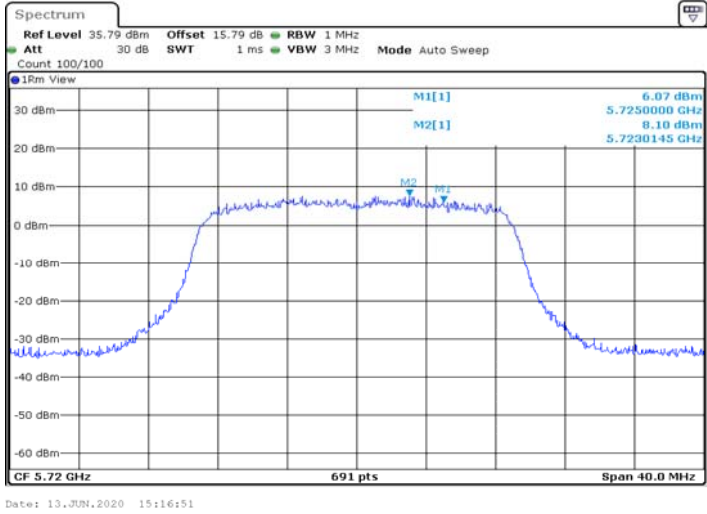
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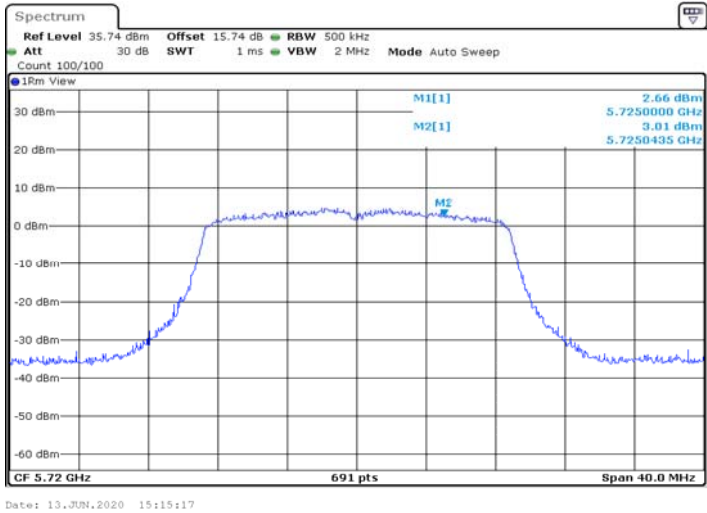
11ac20MIMO_Ant1_5720_UNII-2C



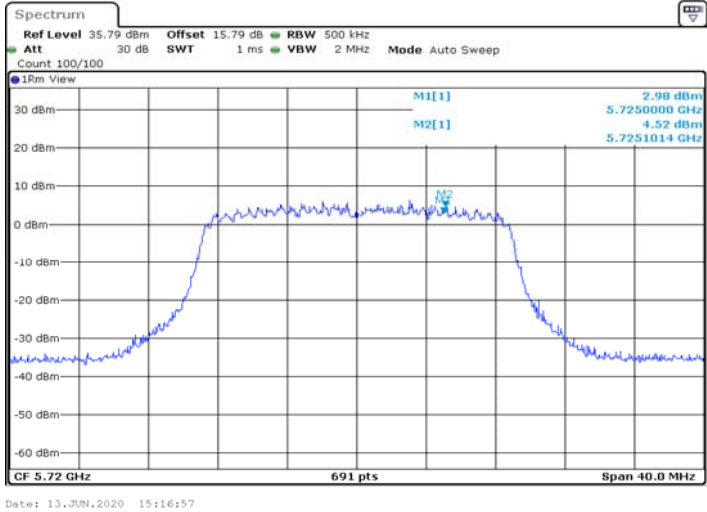
11ac20MIMO_Ant2_5720_UNII-2C



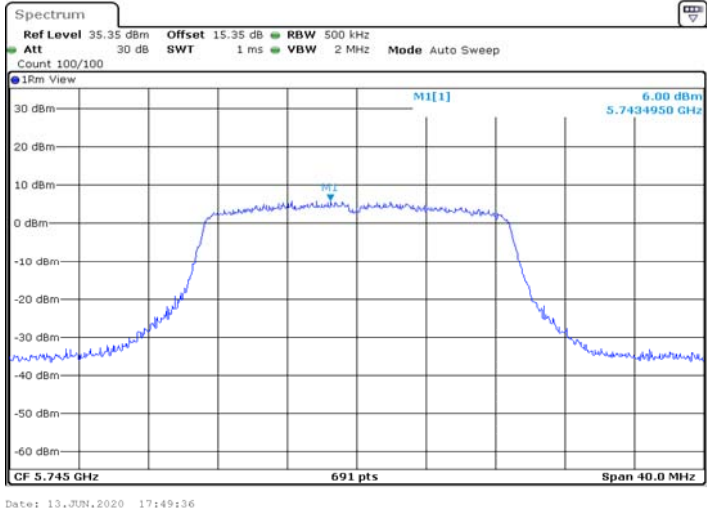
11ac20MIMO_Ant1_5720_UNII-3



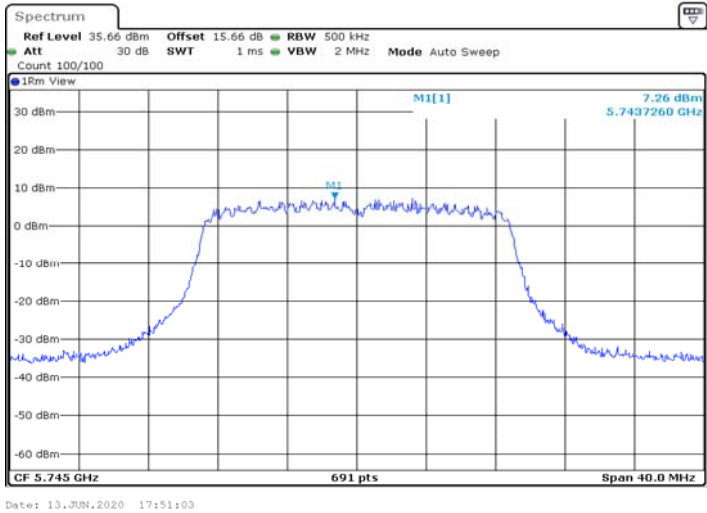
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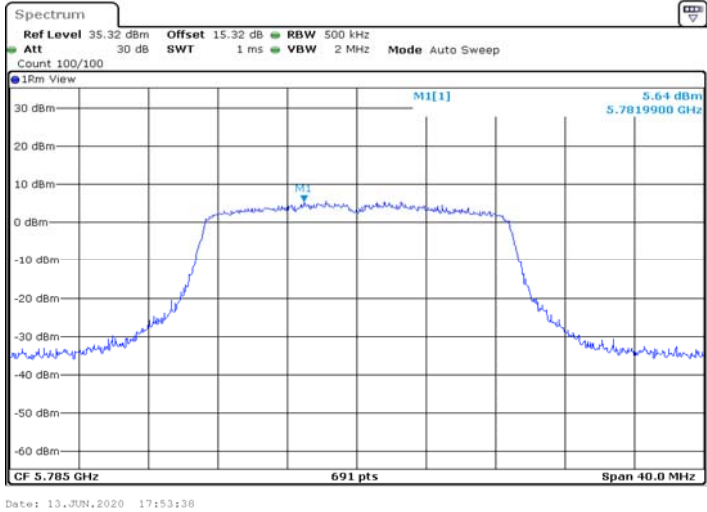
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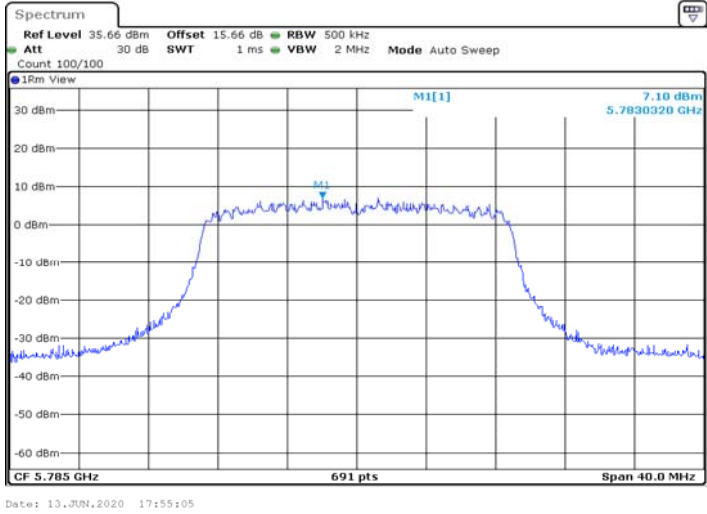
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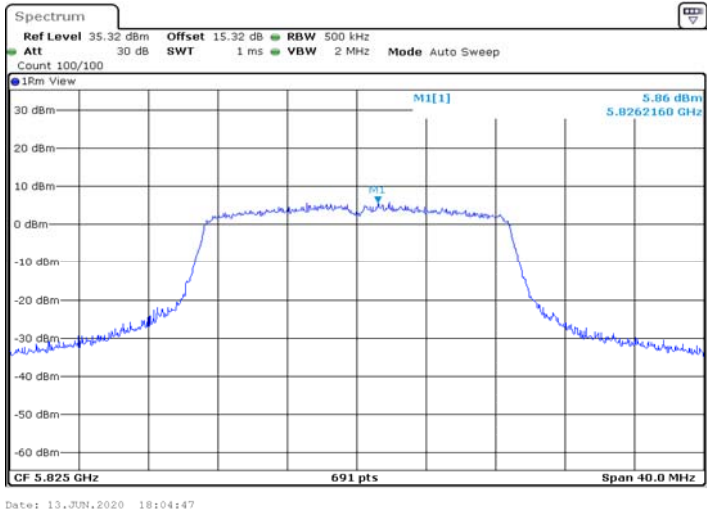
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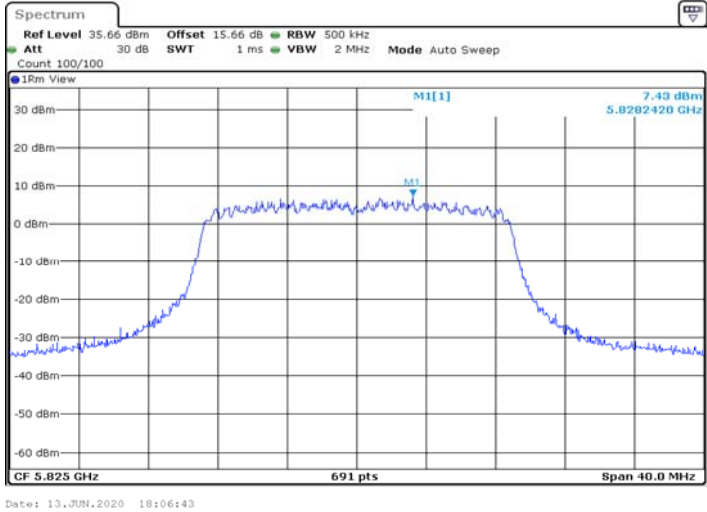
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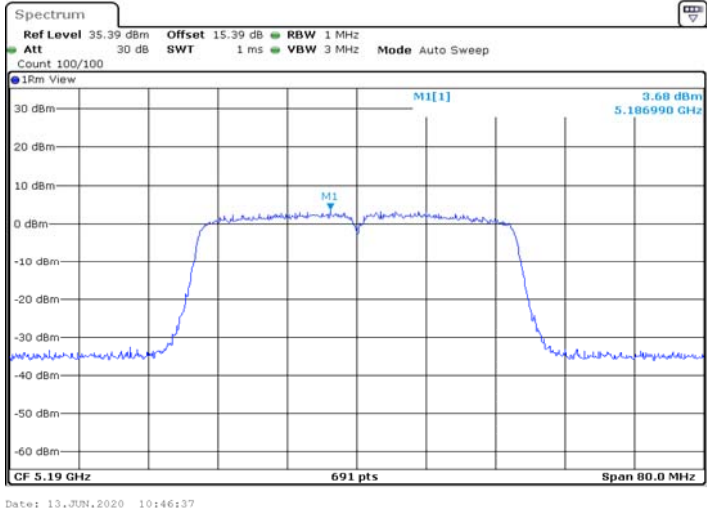
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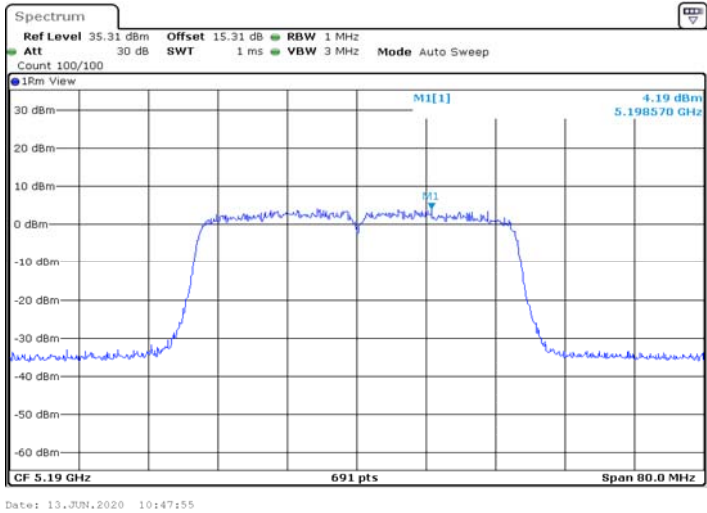
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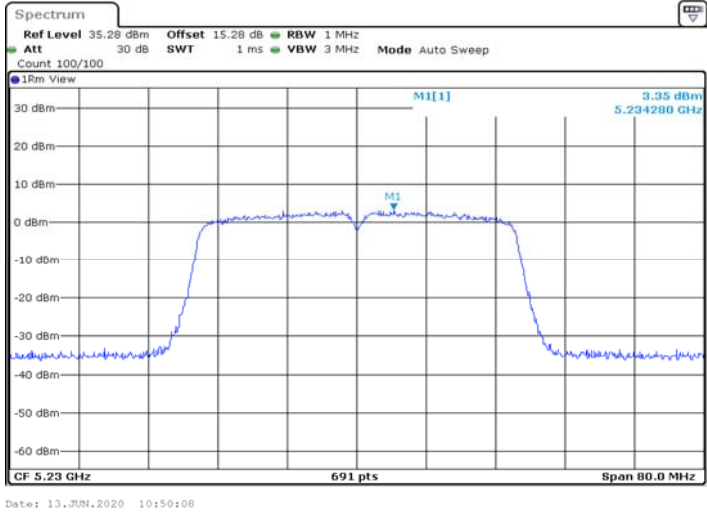
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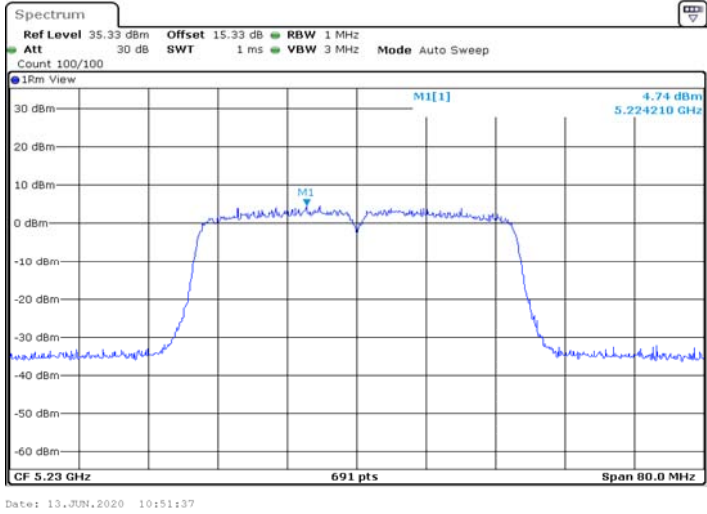
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11ac40MIMO_Ant1_5230



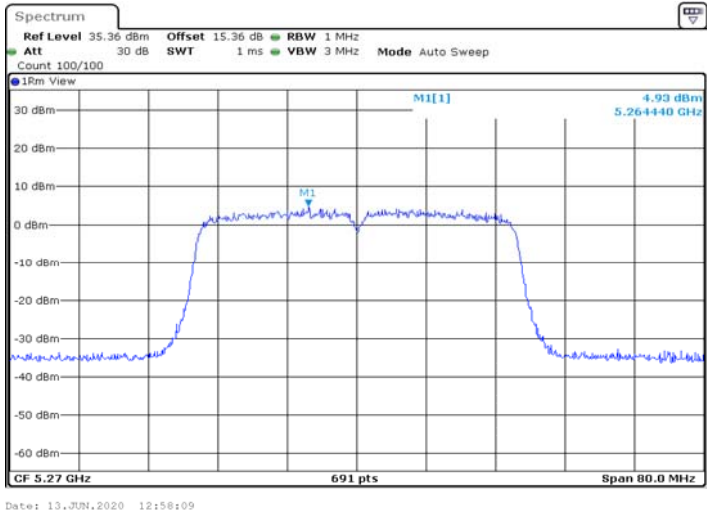
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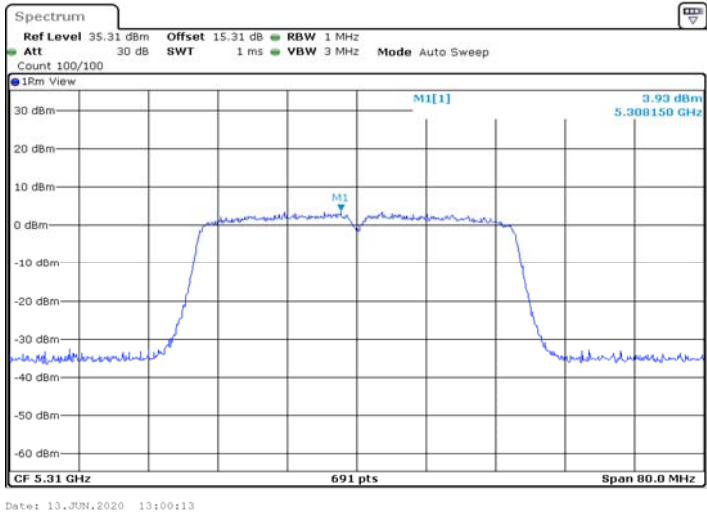
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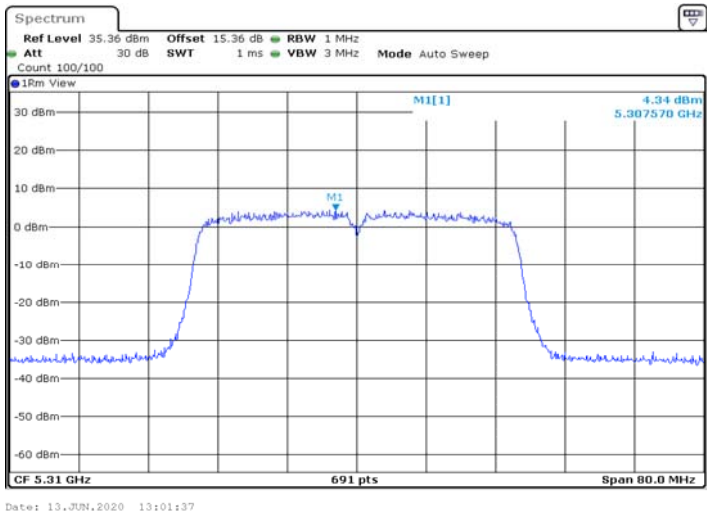
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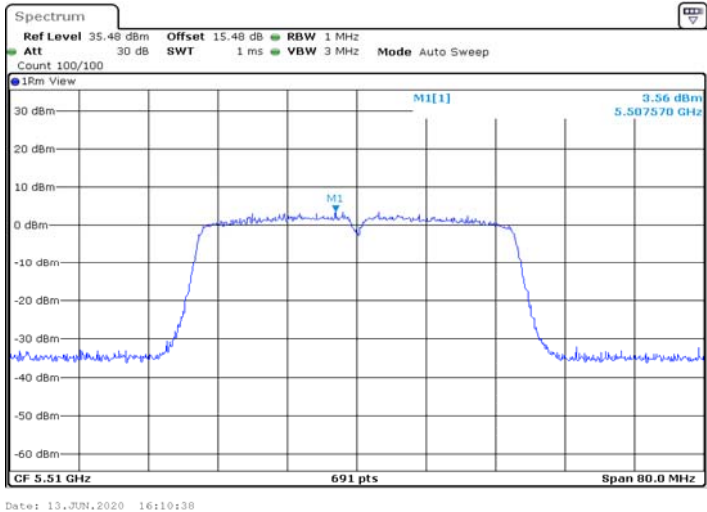
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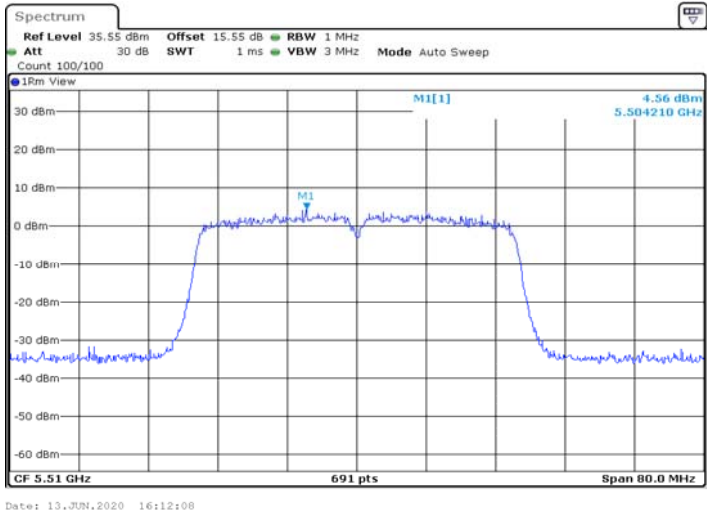
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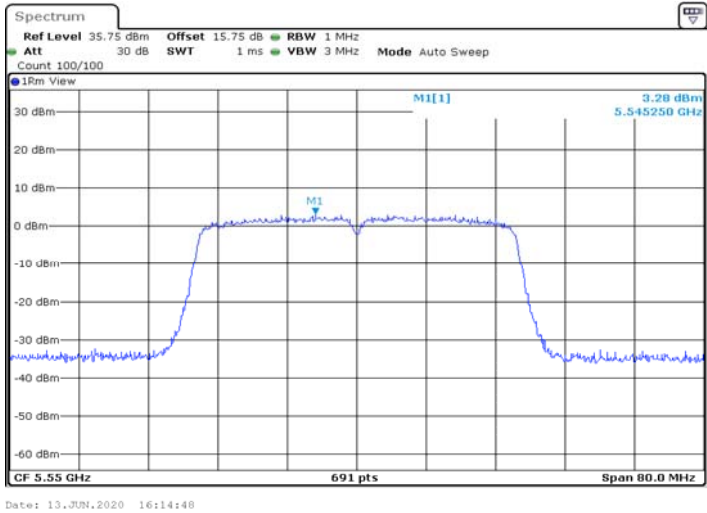
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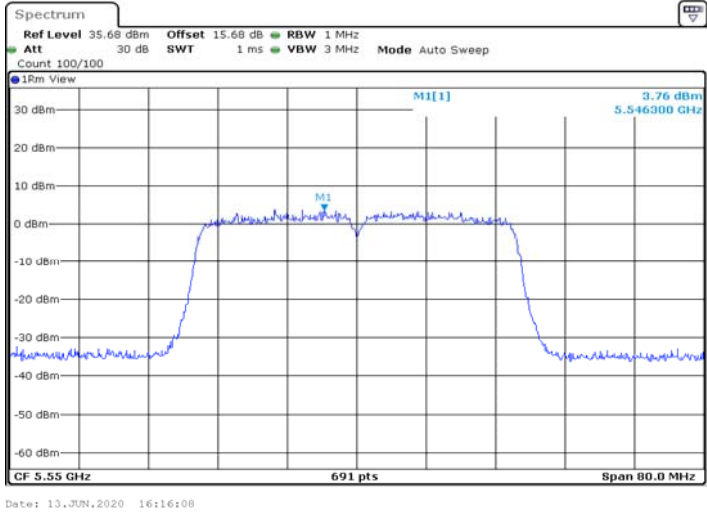
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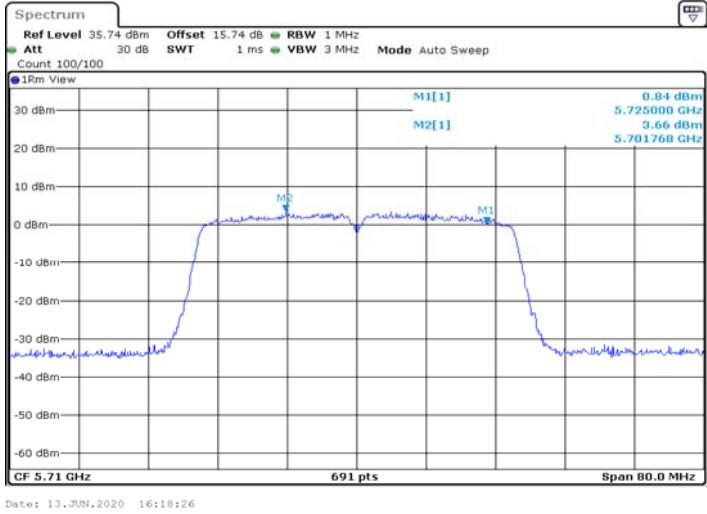
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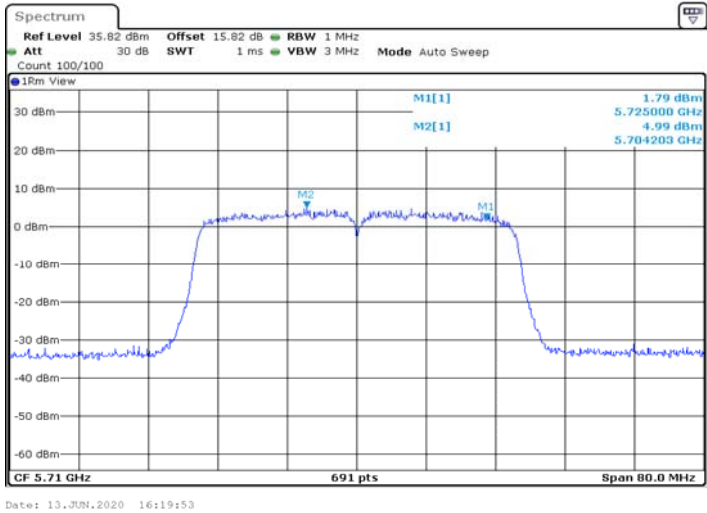
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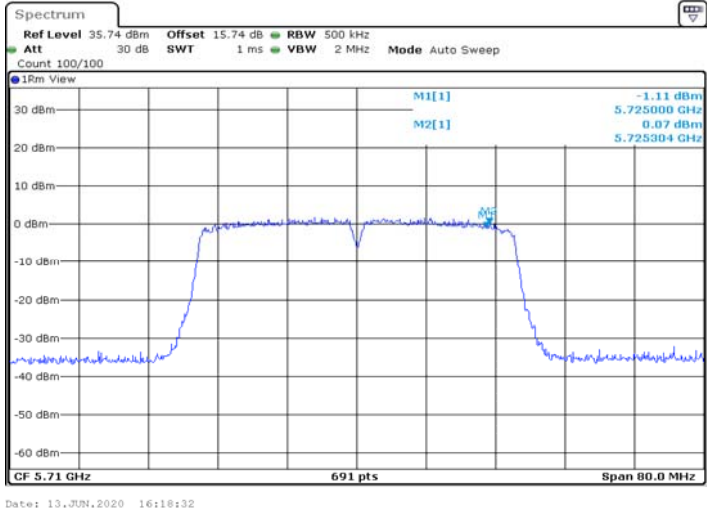
11ac40MIMO_Ant1_5710_UNII-2C



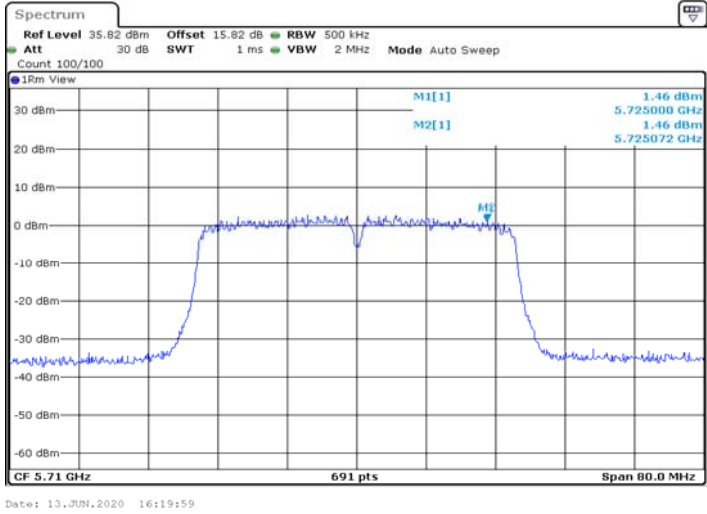
11ac40MIMO_Ant2_5710_UNII-2C



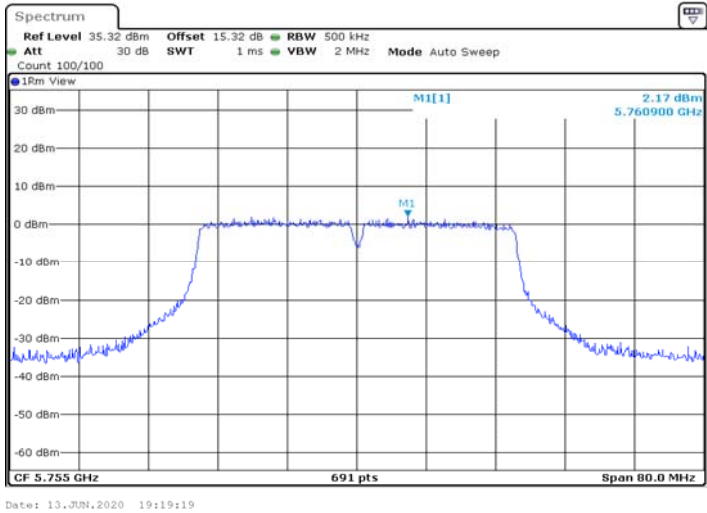
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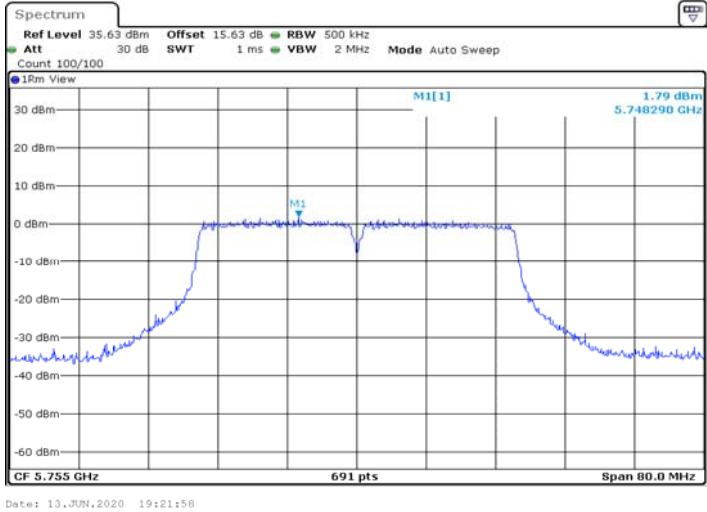
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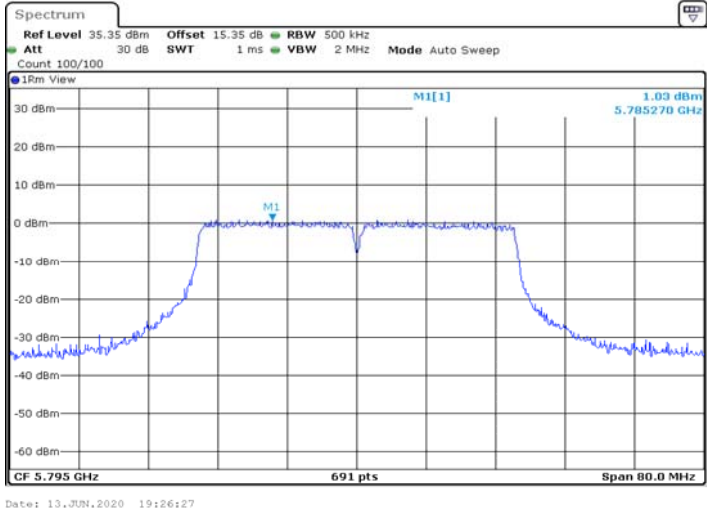
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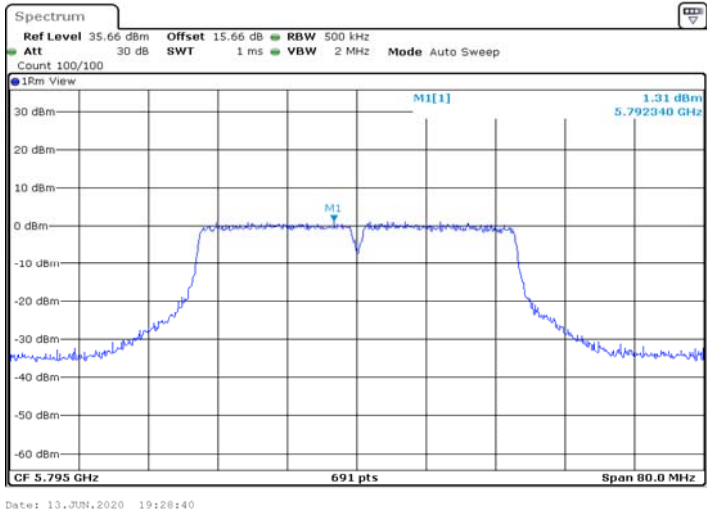
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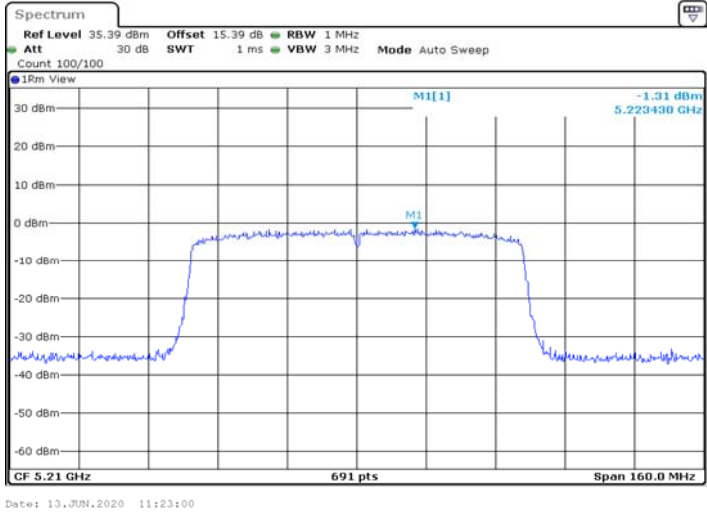
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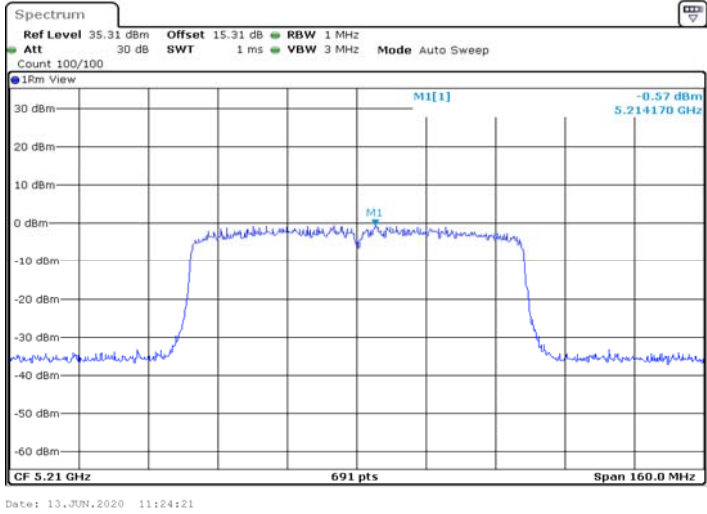
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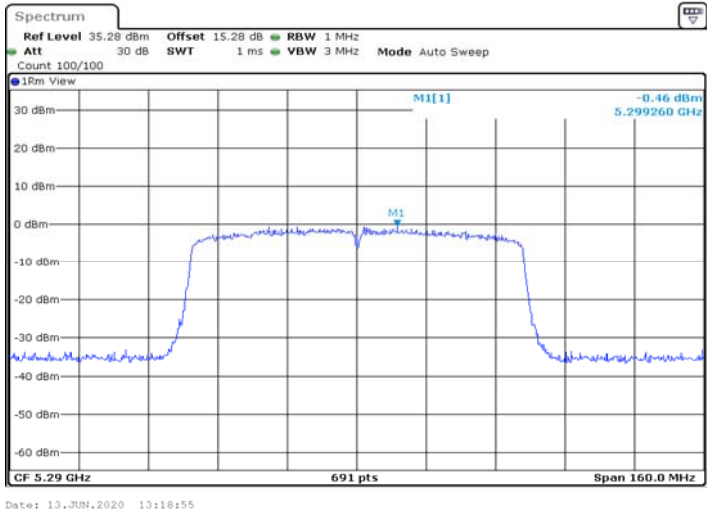
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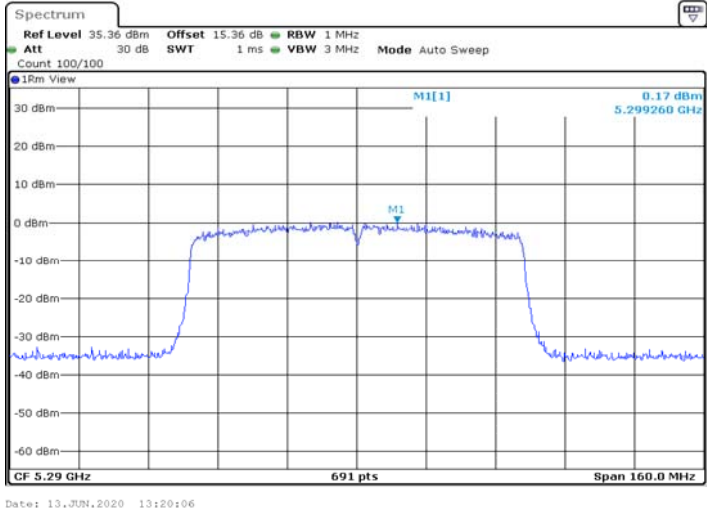
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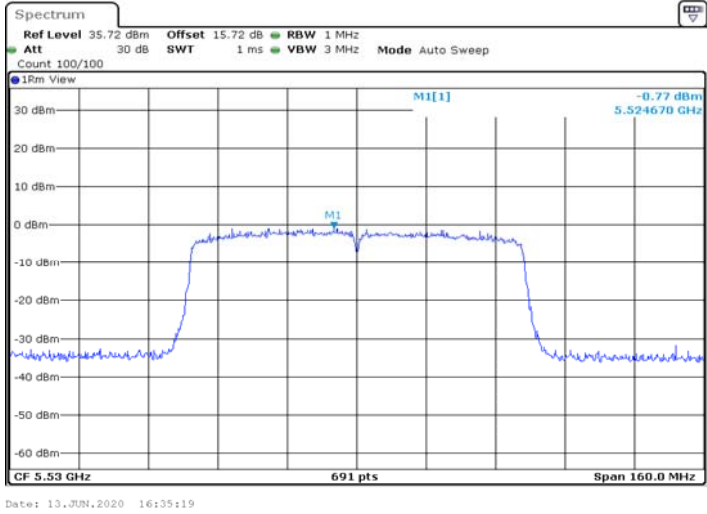
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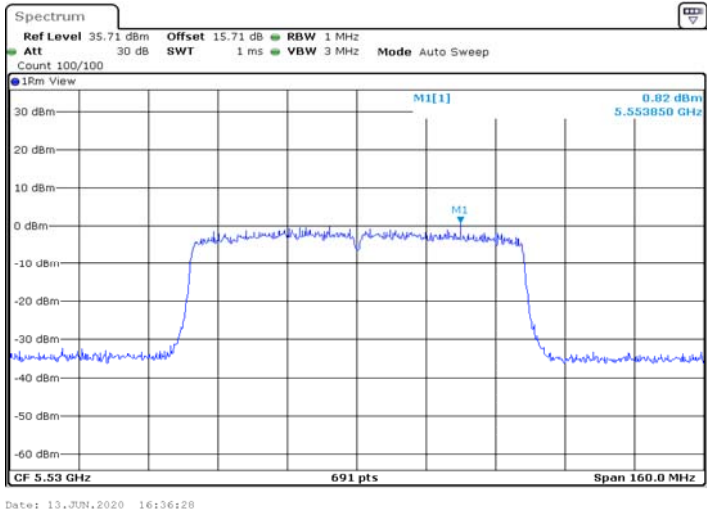
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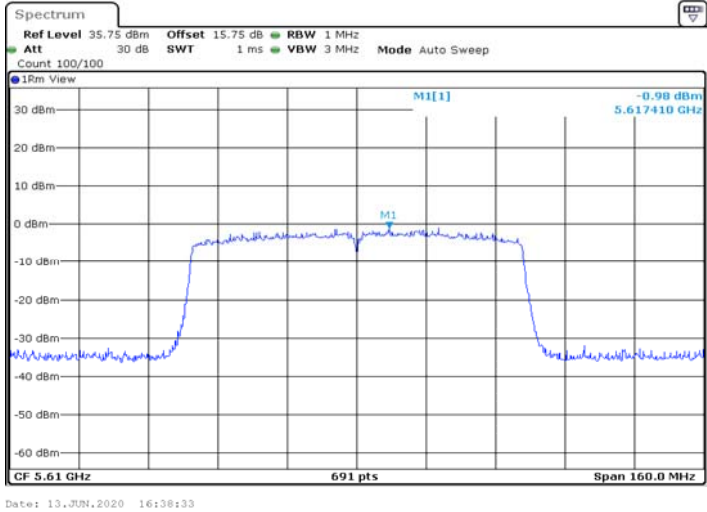
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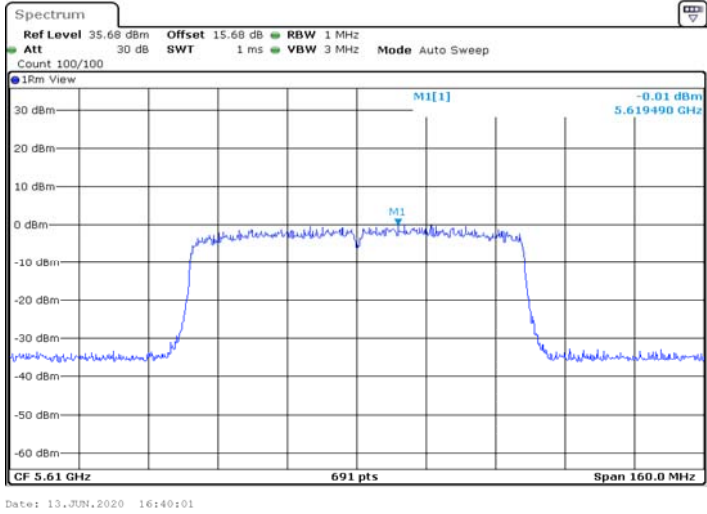
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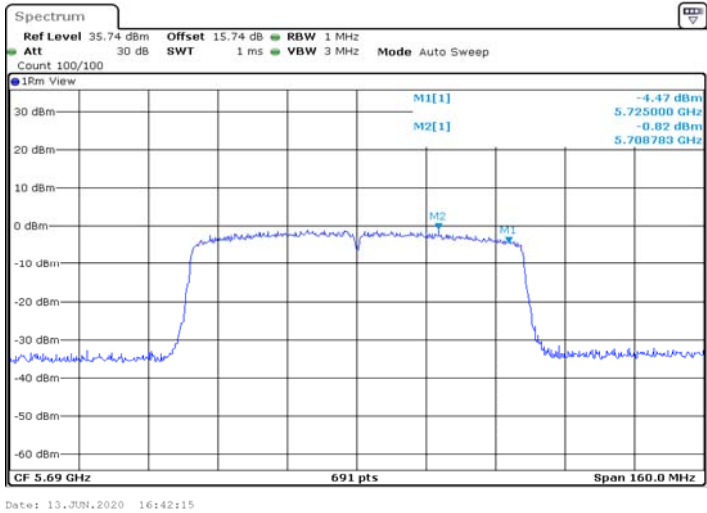
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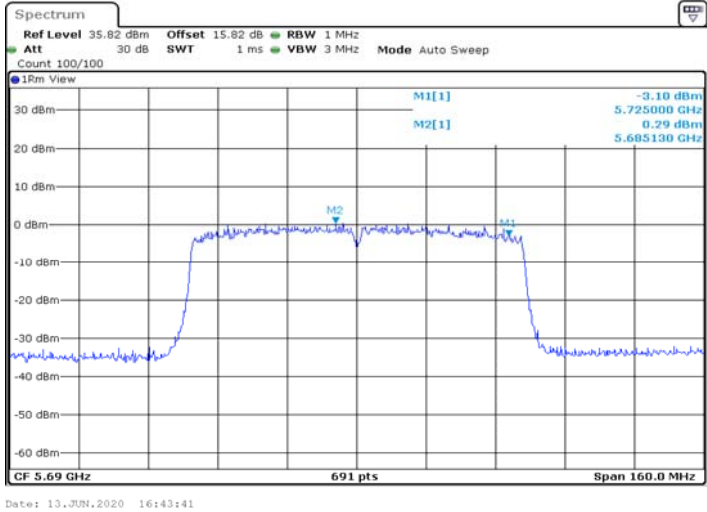
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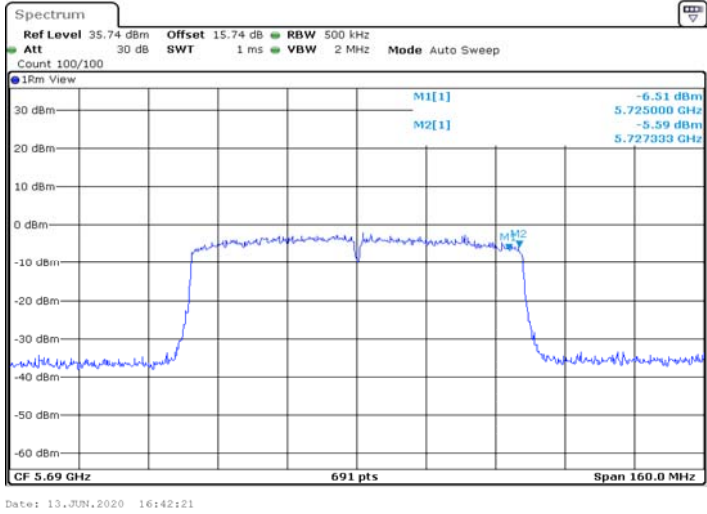
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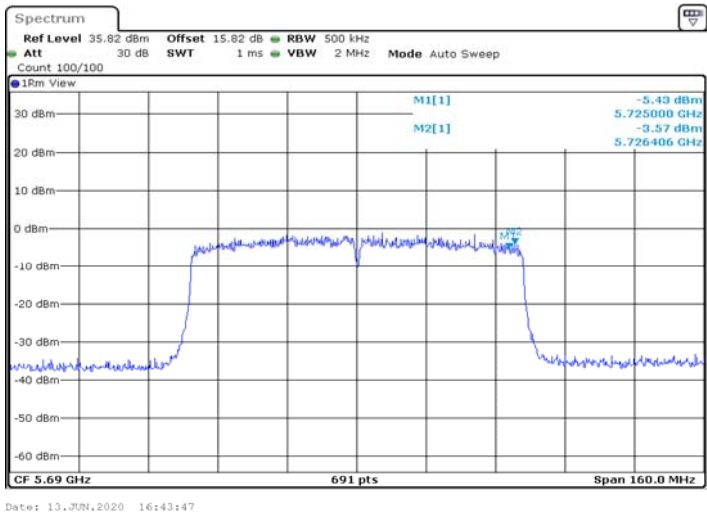
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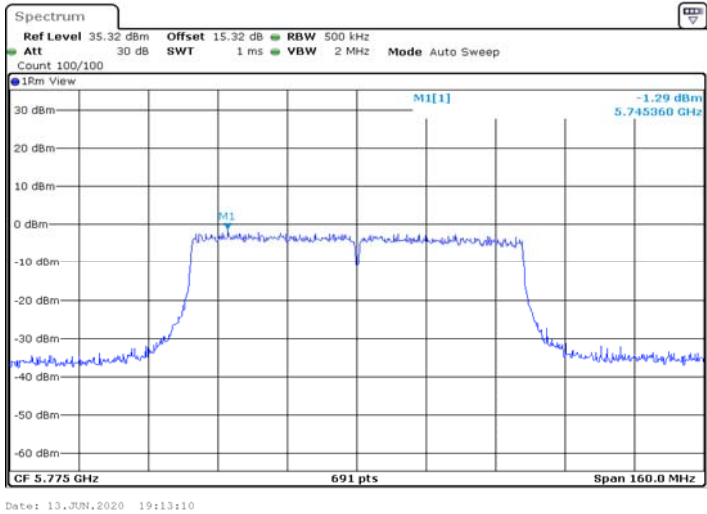
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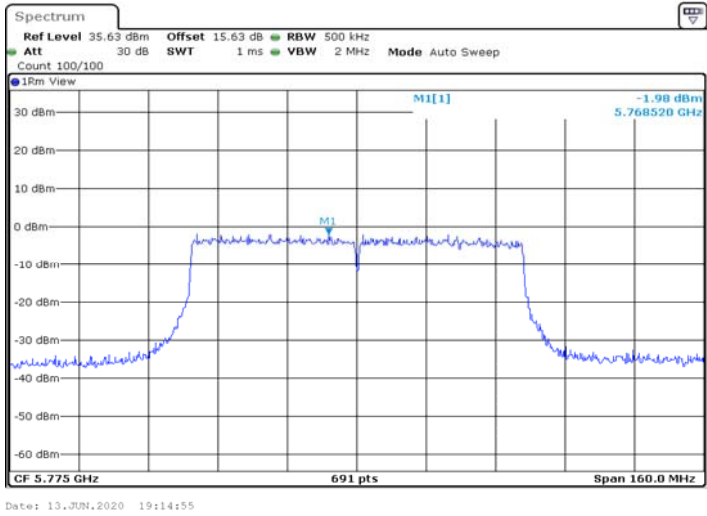
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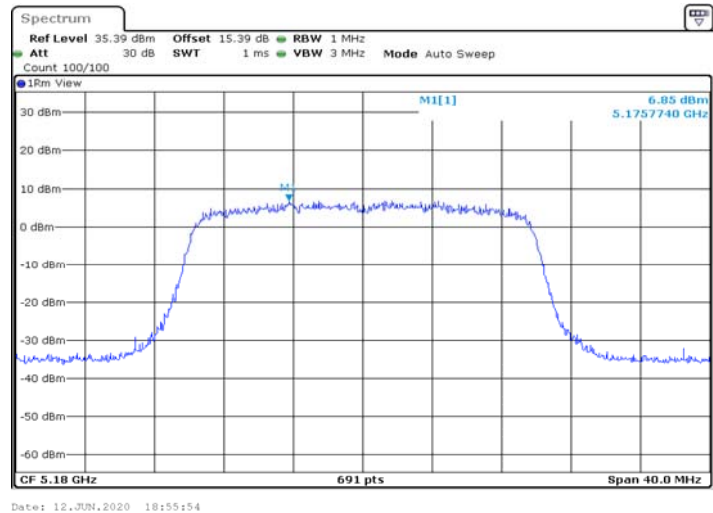
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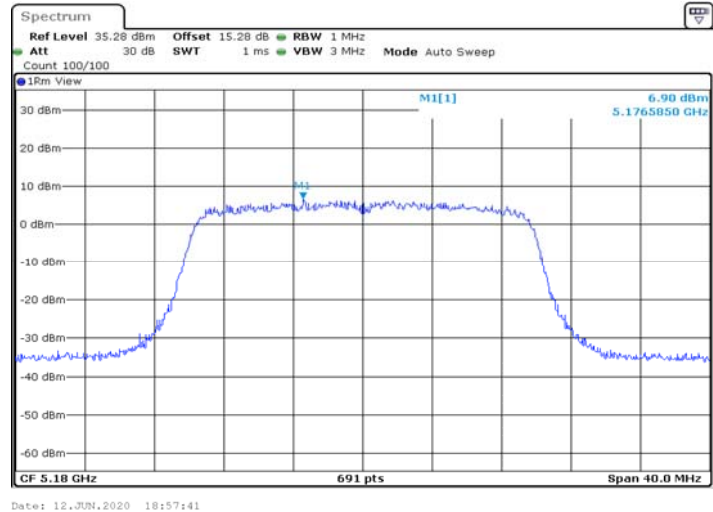
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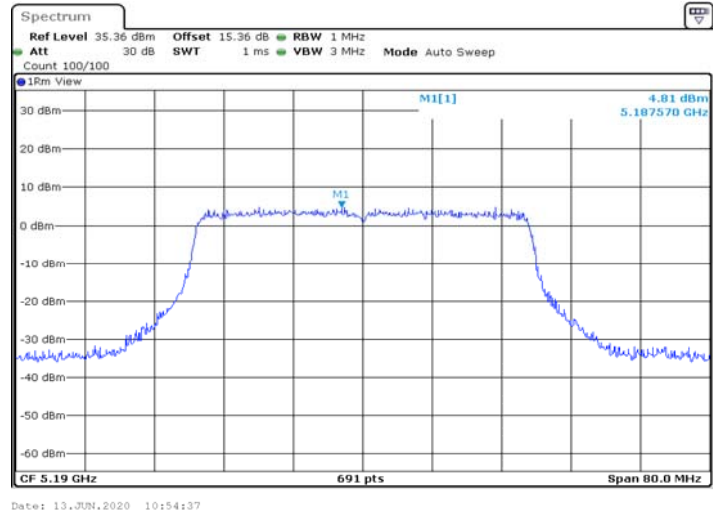
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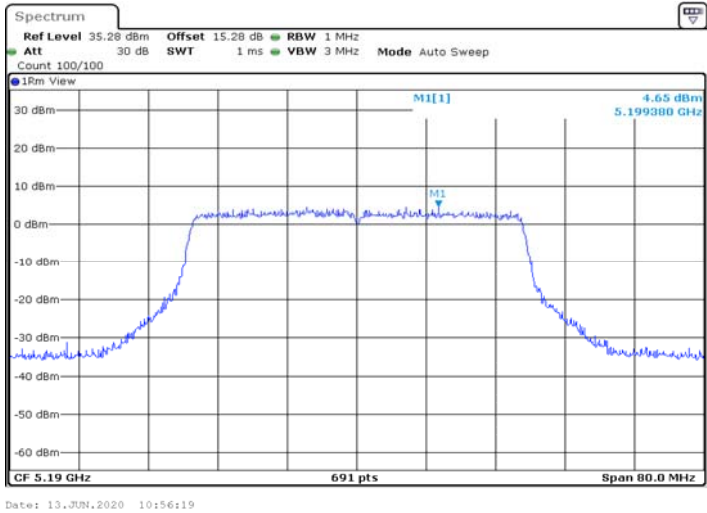
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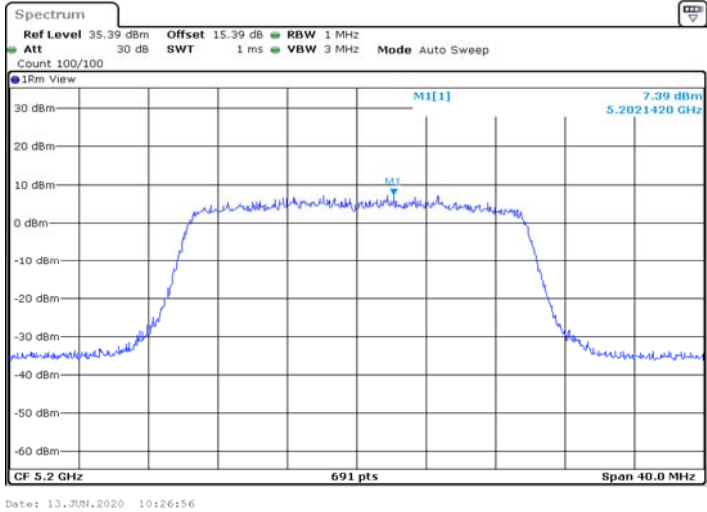
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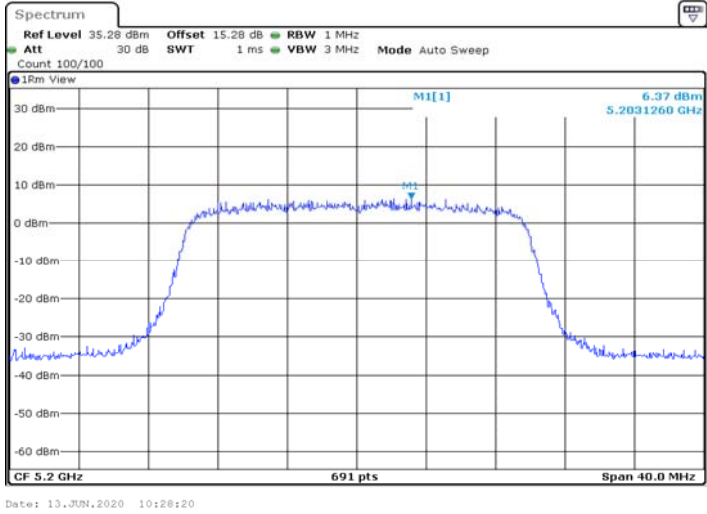
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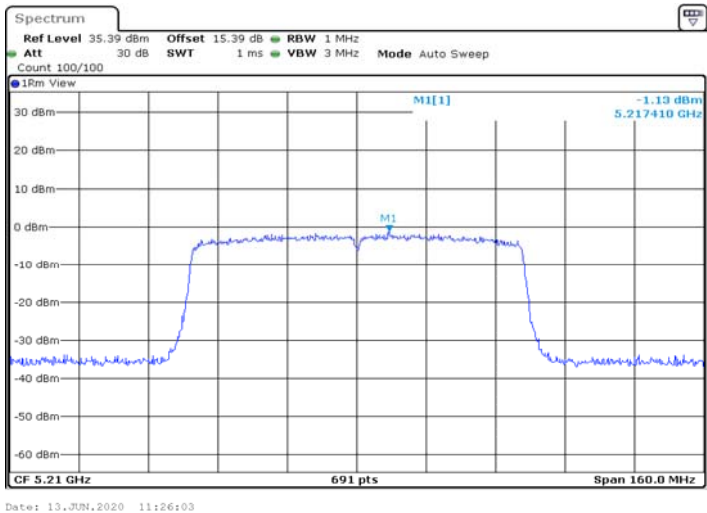
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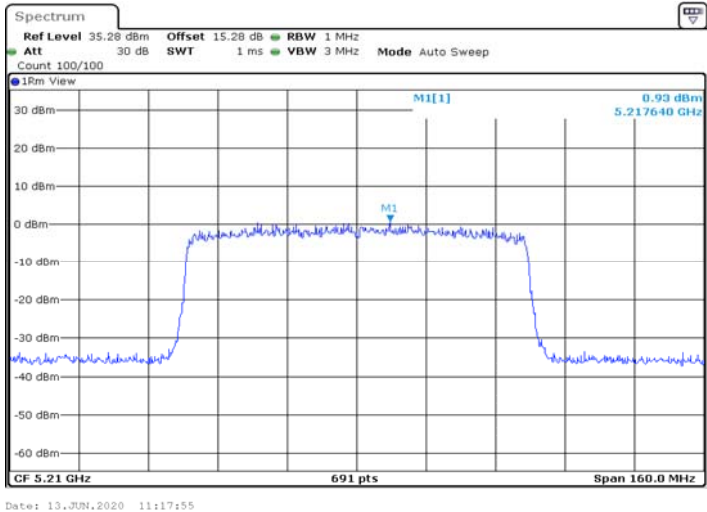
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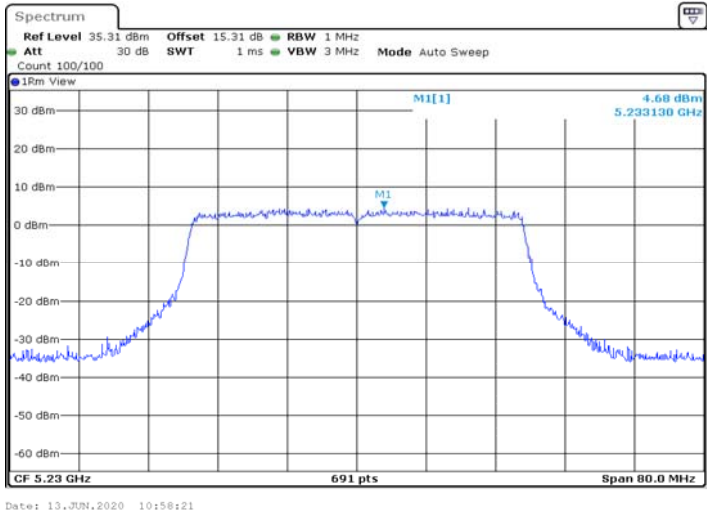
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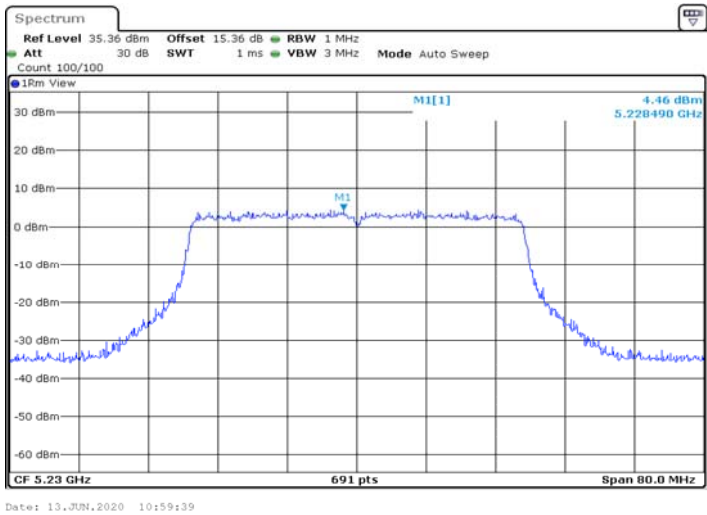
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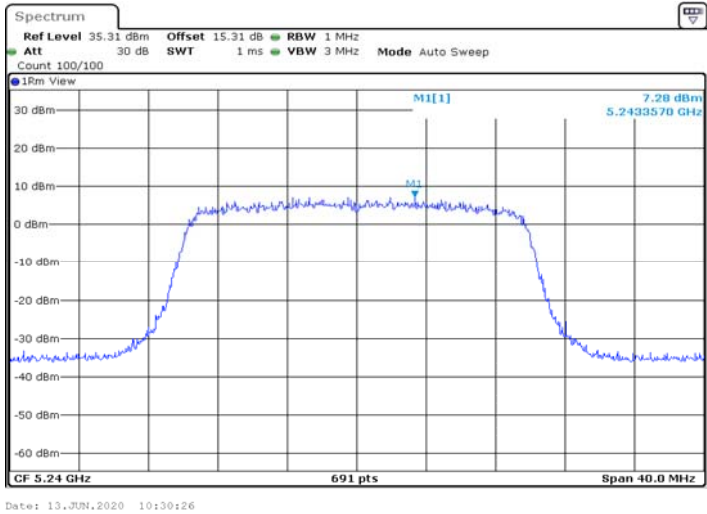
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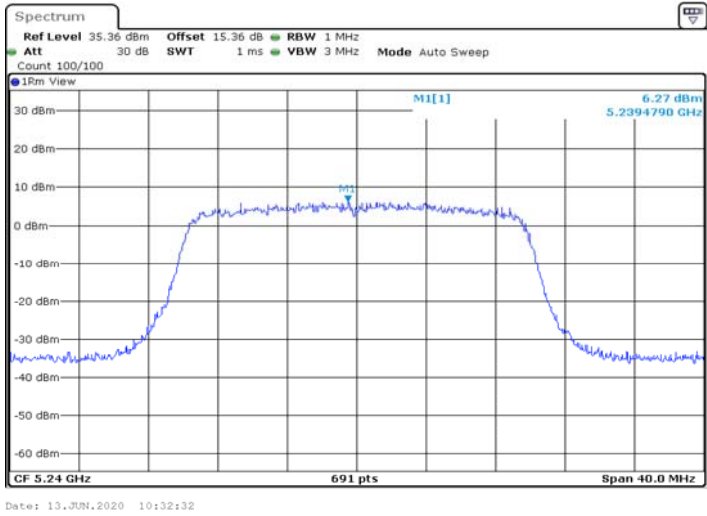
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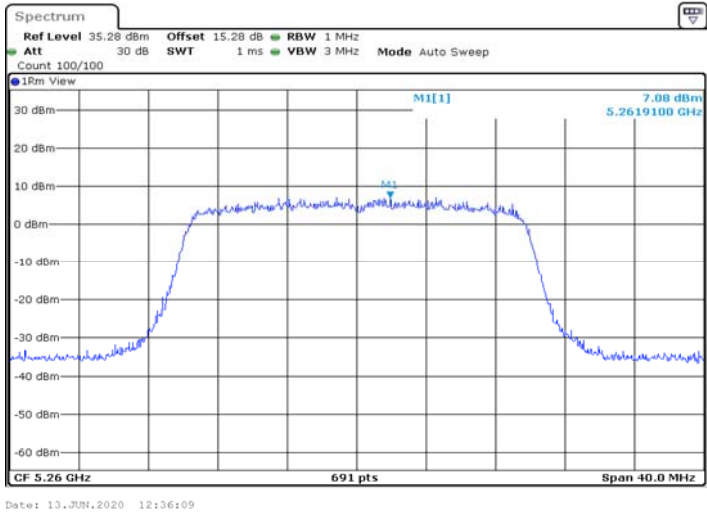
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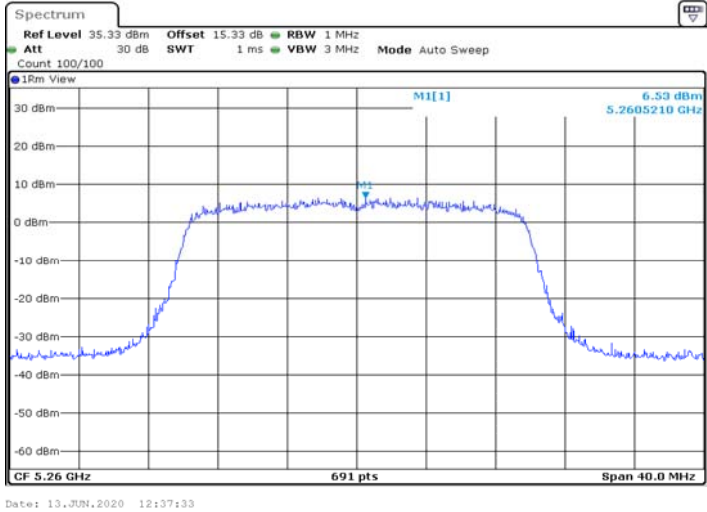
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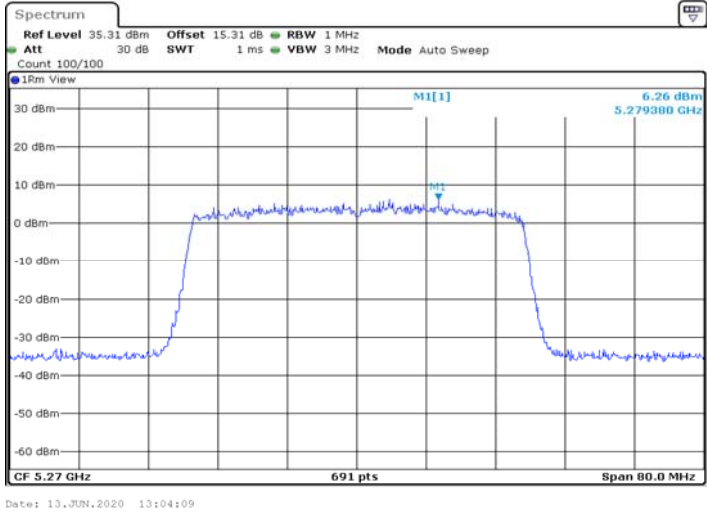
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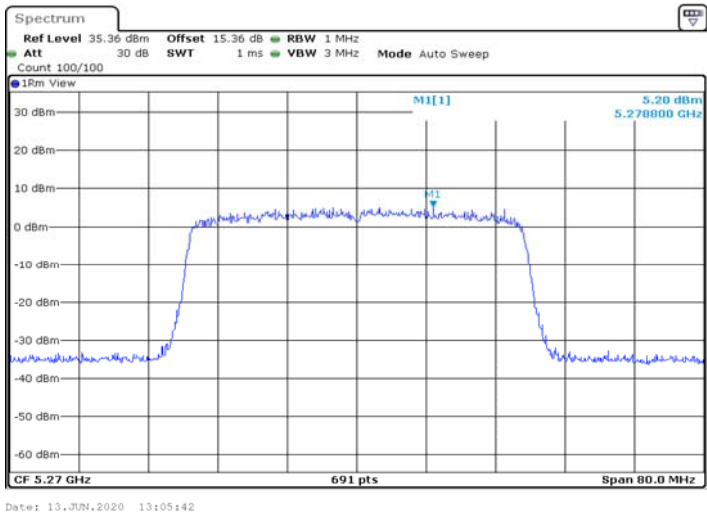
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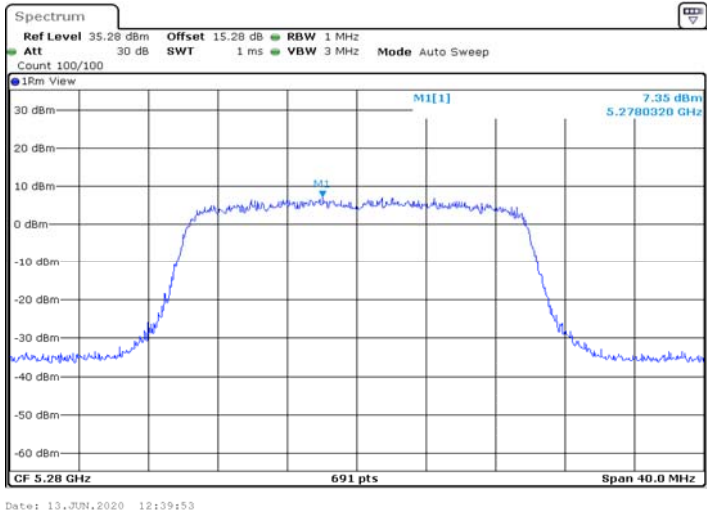
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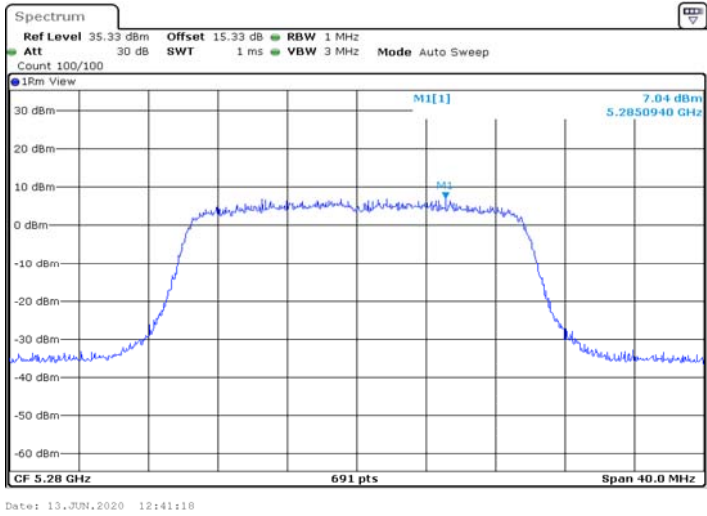
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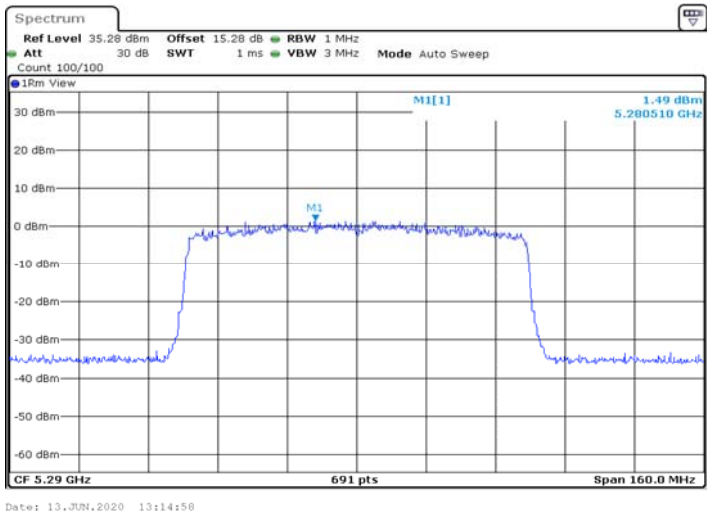
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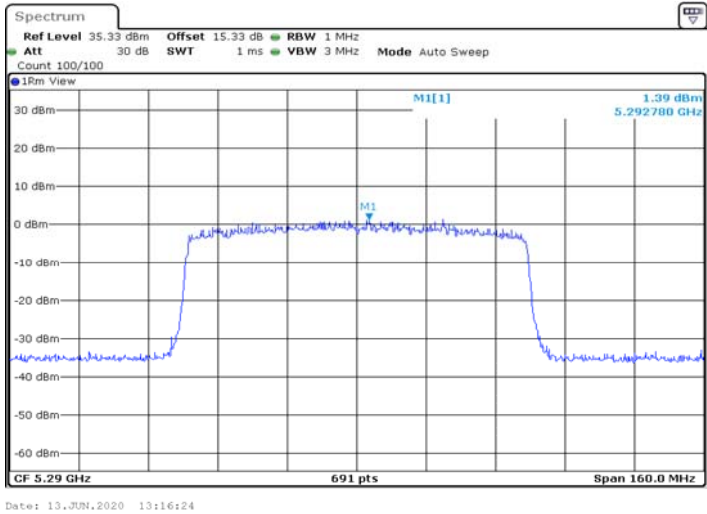
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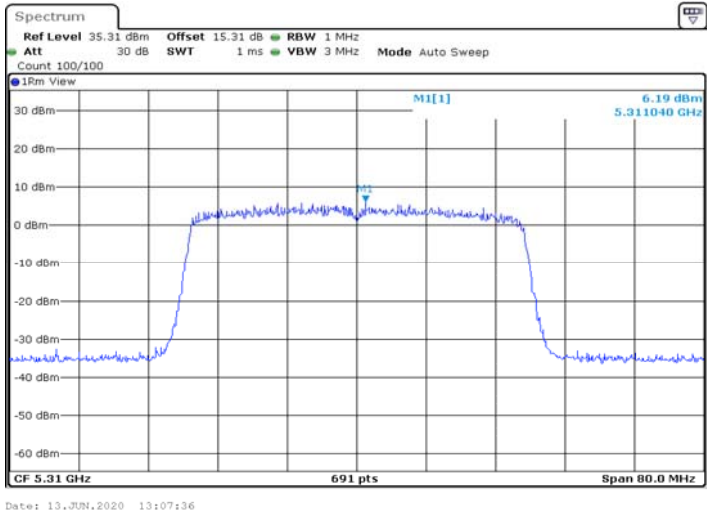
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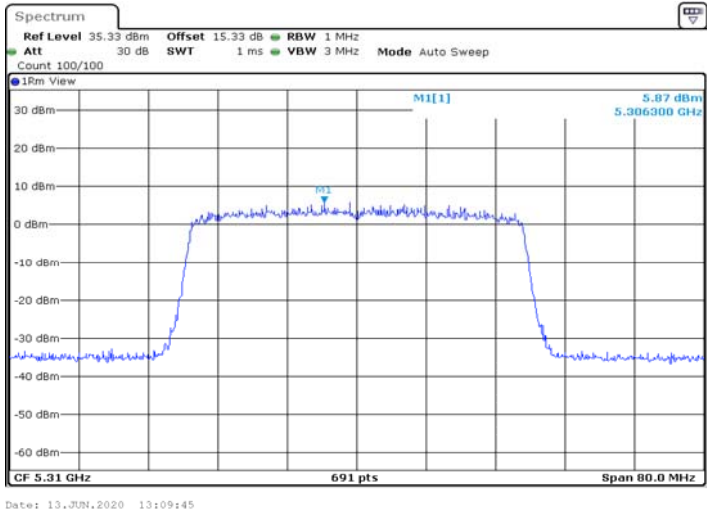
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11ax40MIMO_Ant1_5310



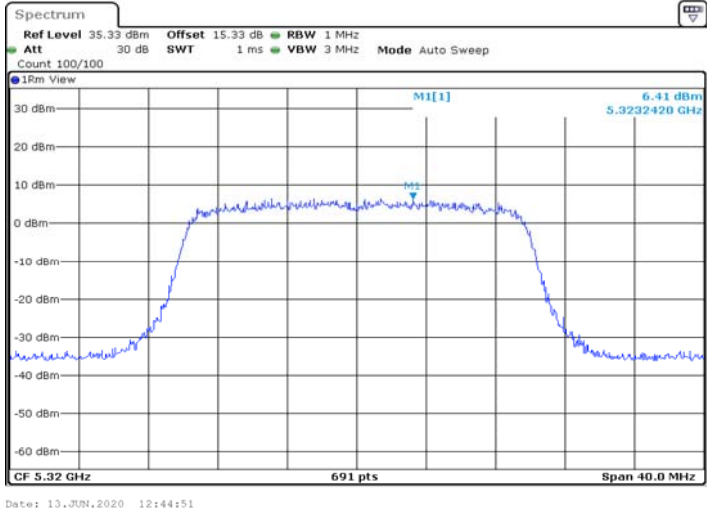
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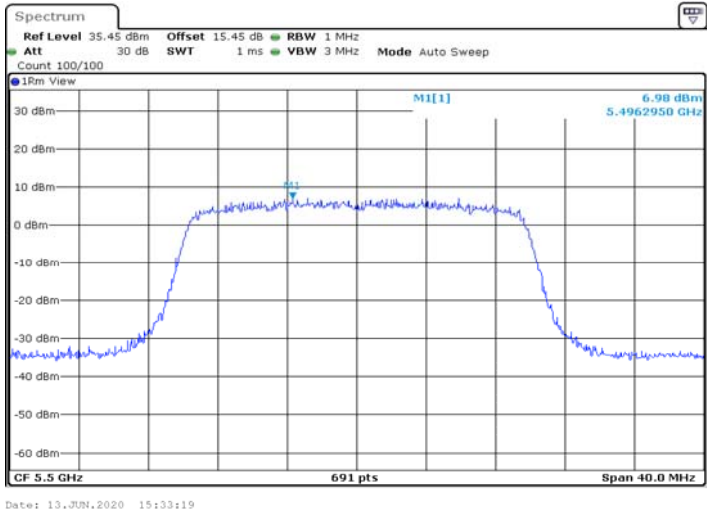
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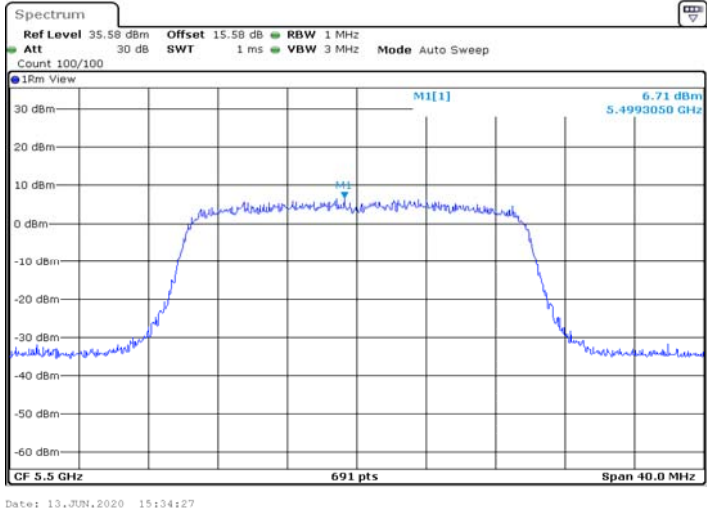
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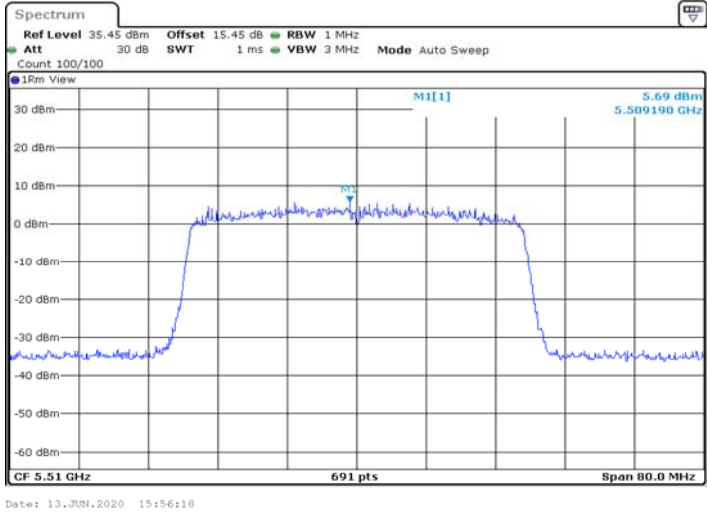
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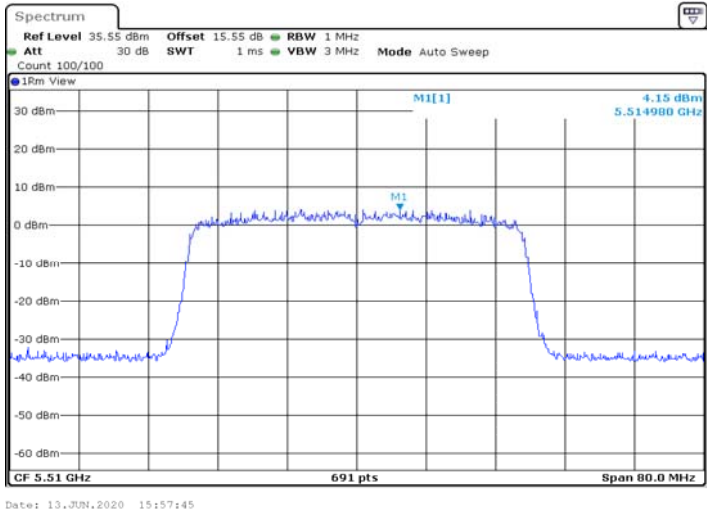
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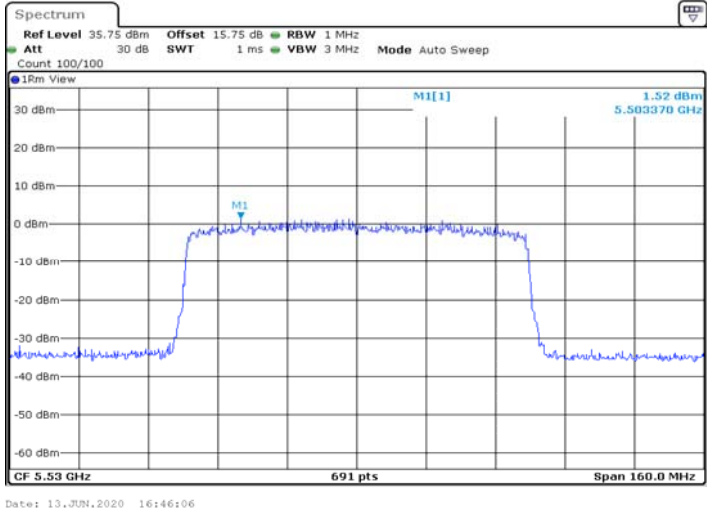
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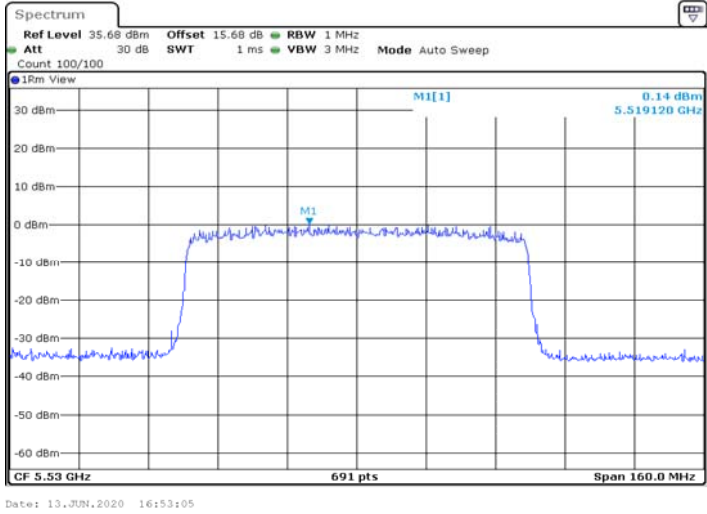
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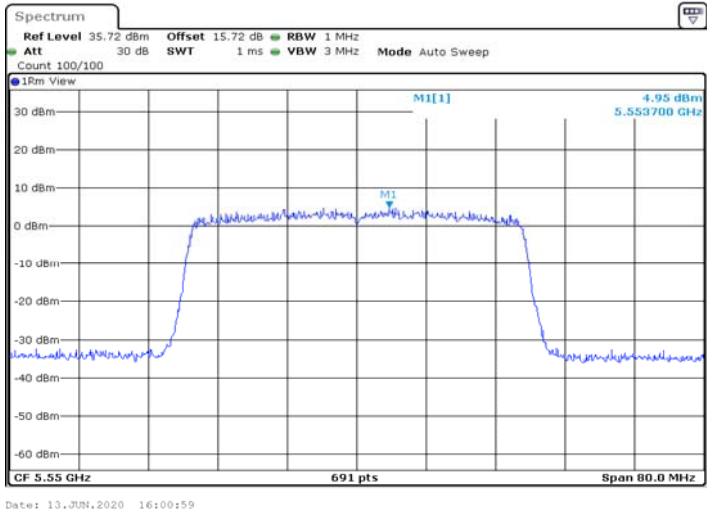
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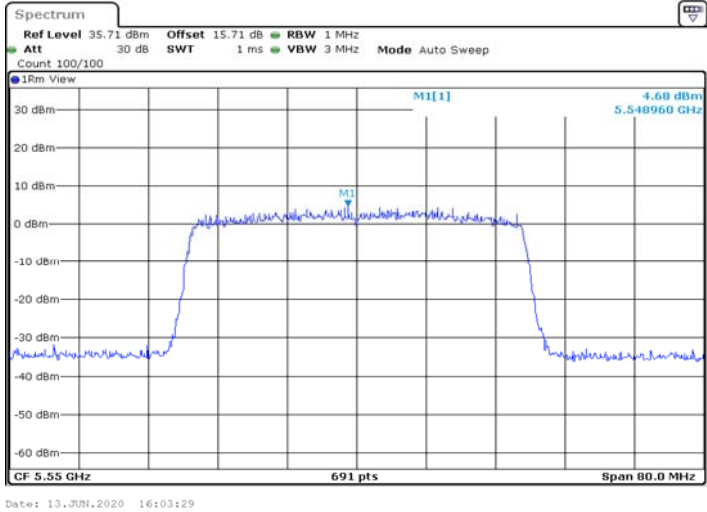
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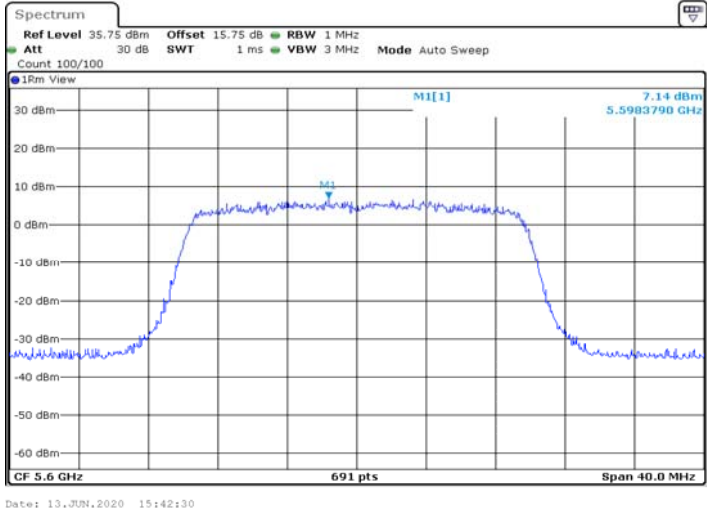
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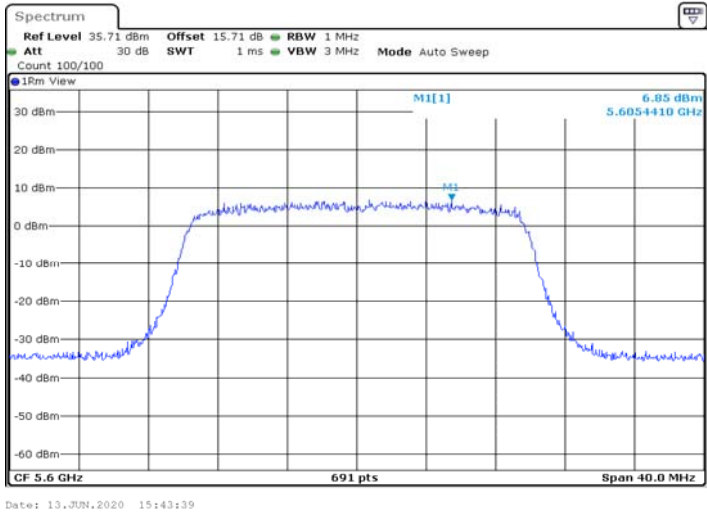
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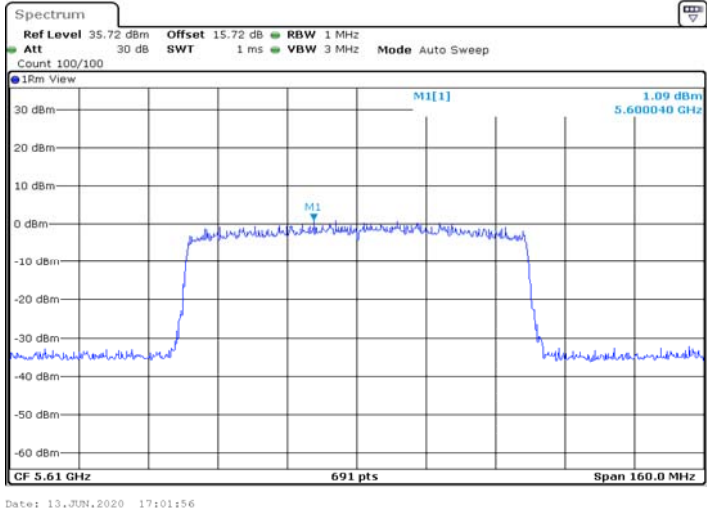
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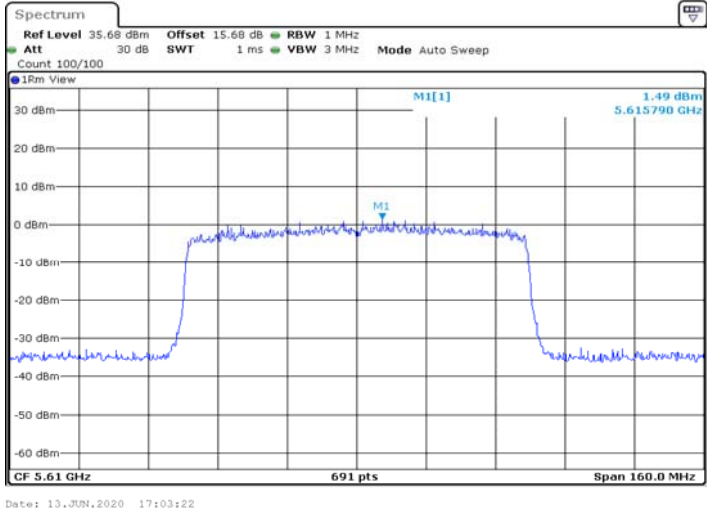
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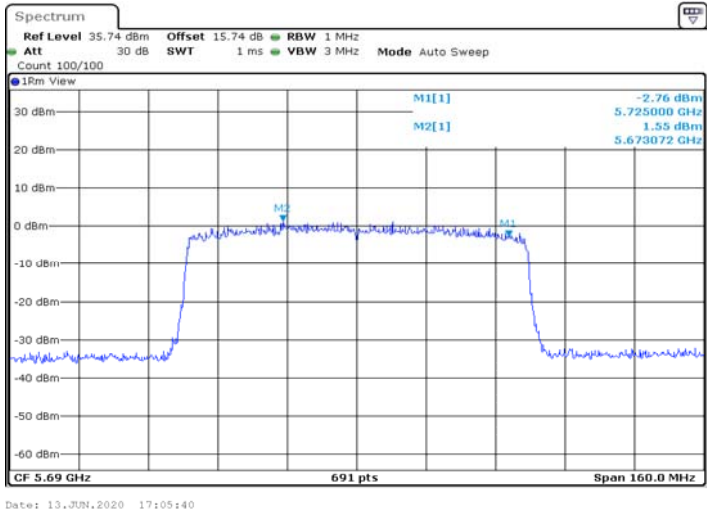
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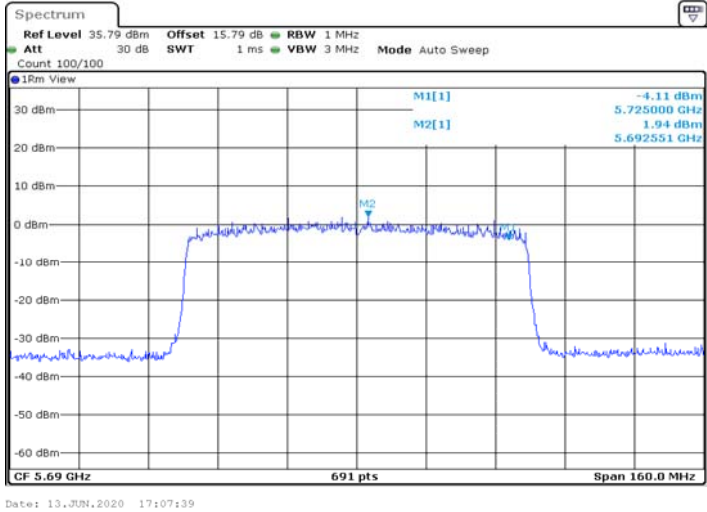
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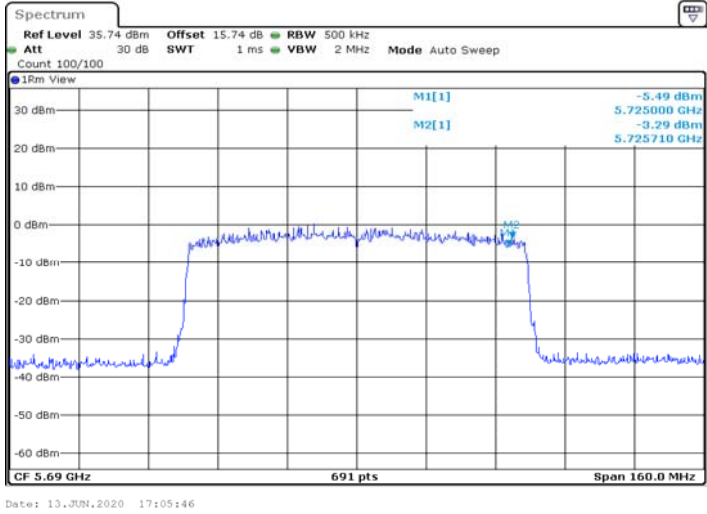
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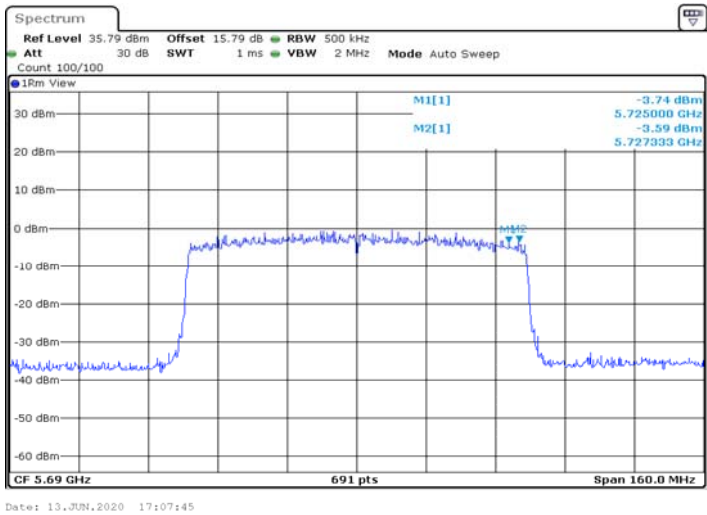
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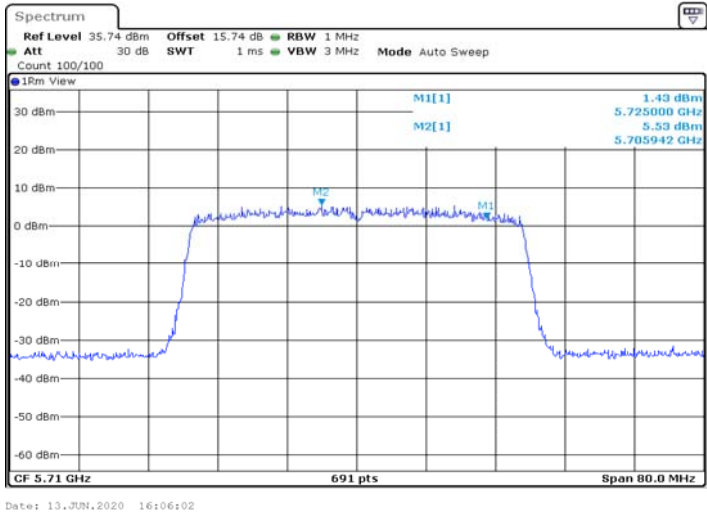
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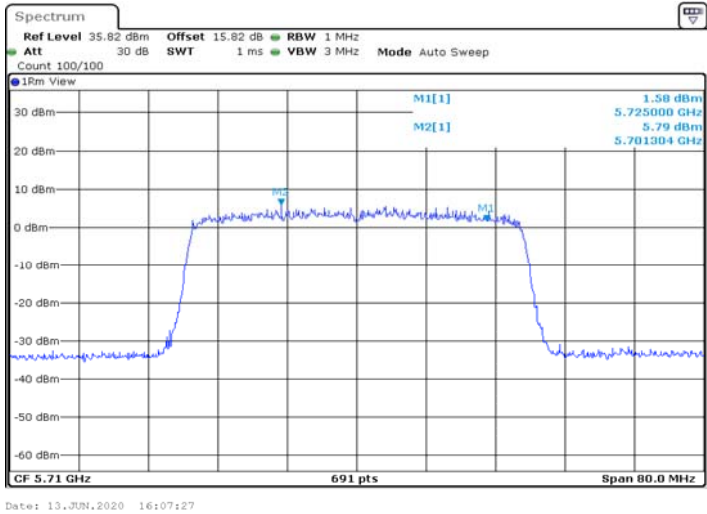
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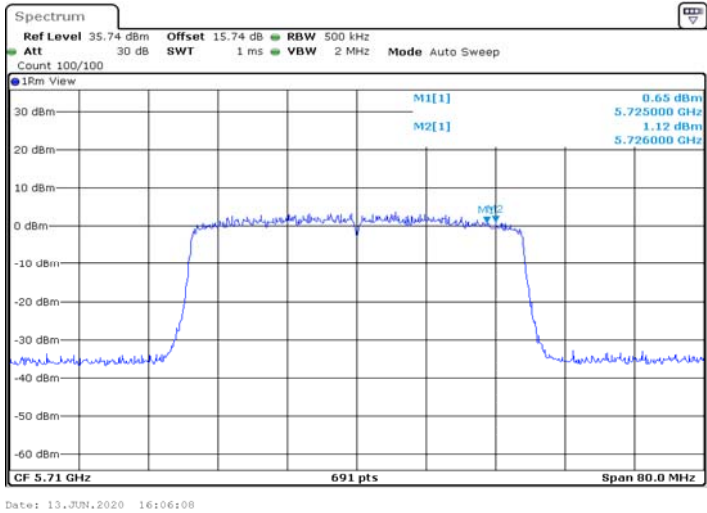
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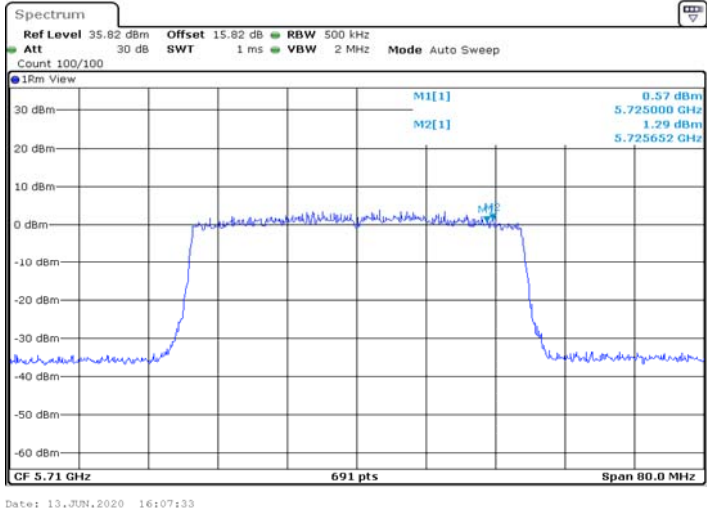
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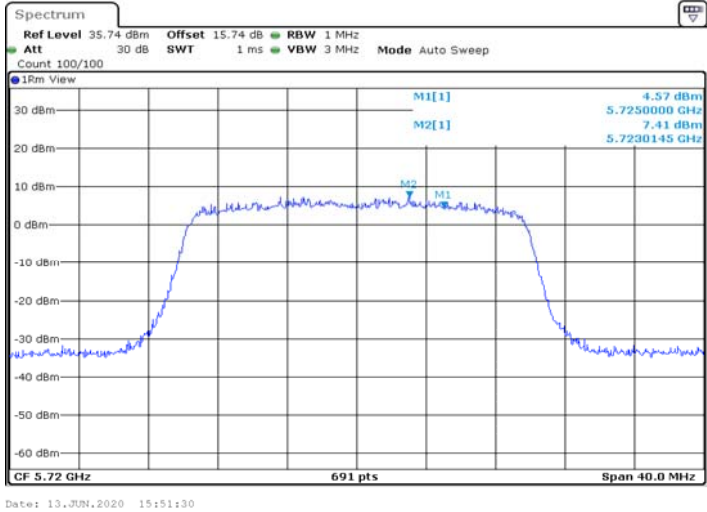
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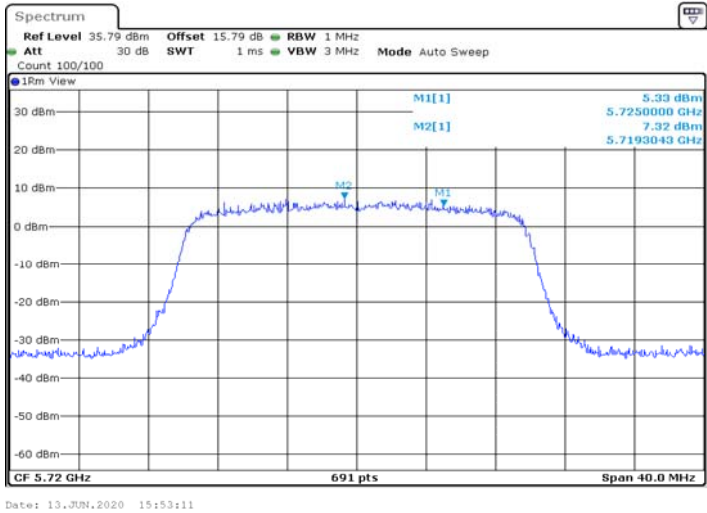
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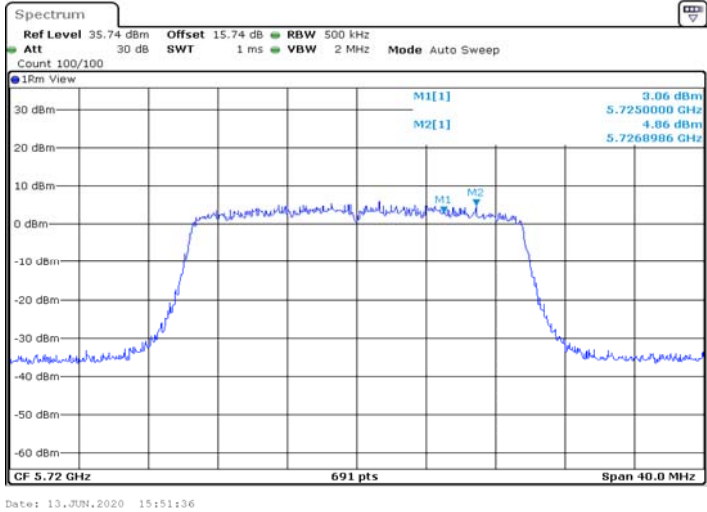
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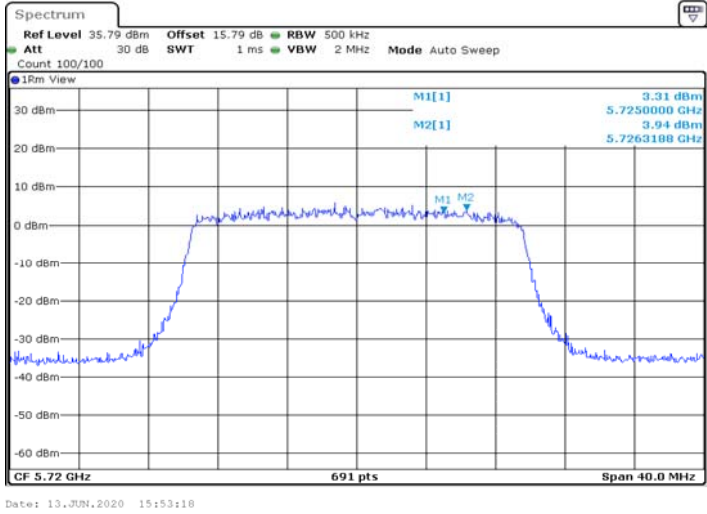
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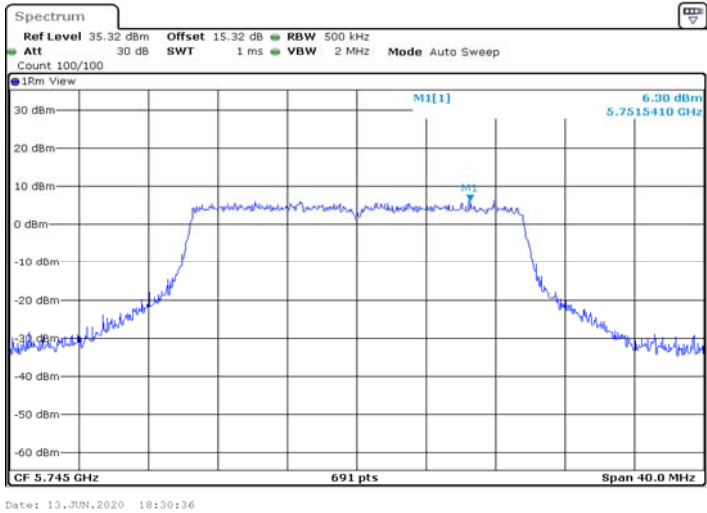
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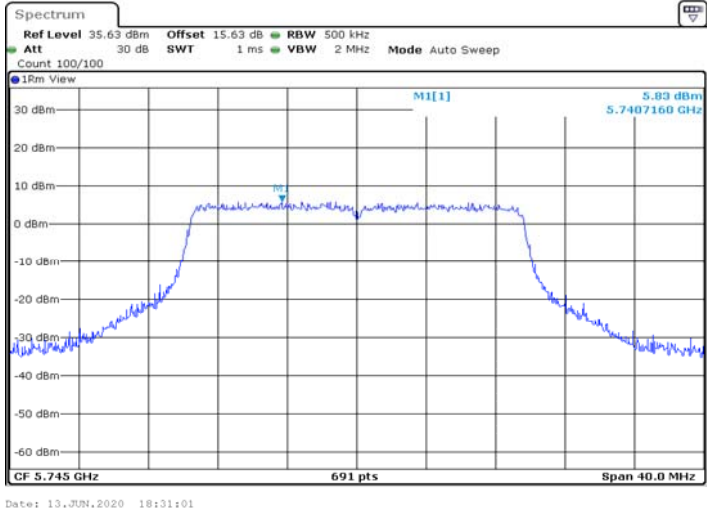
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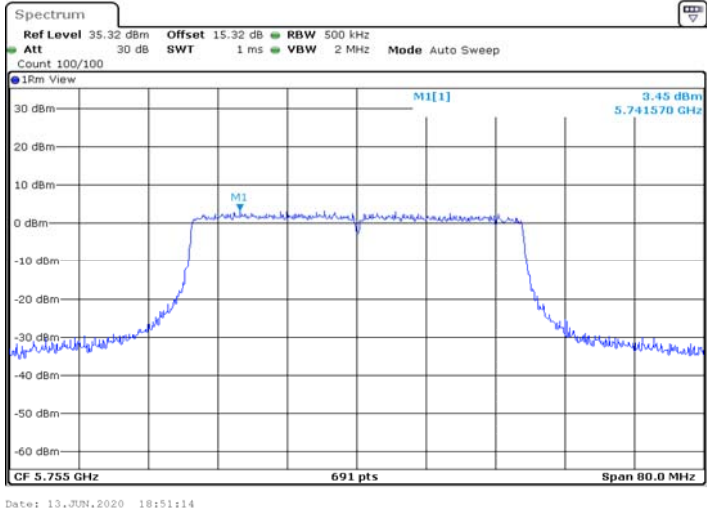
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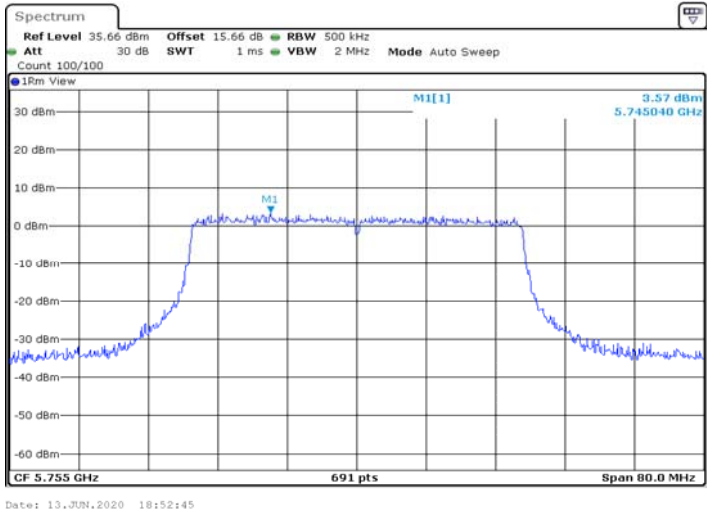
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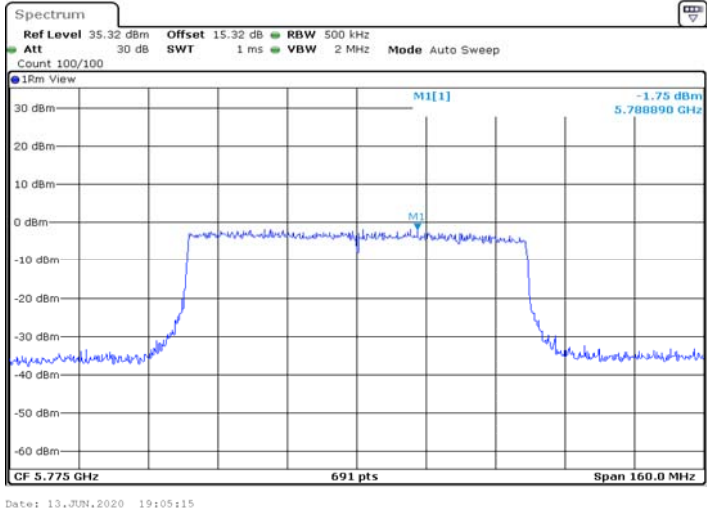
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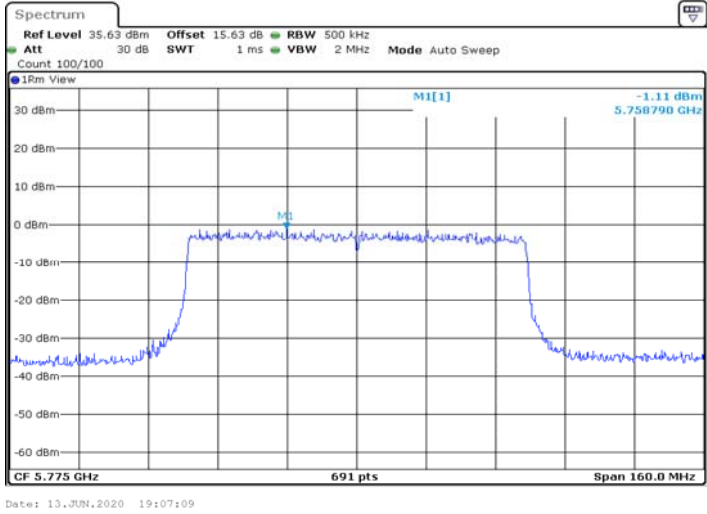
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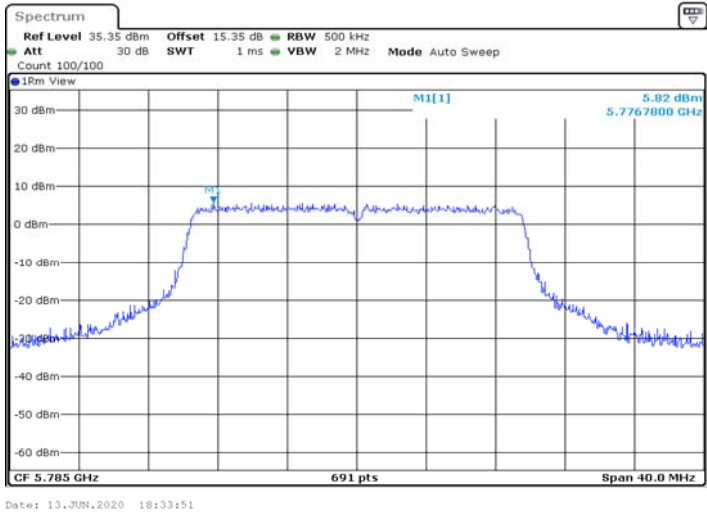
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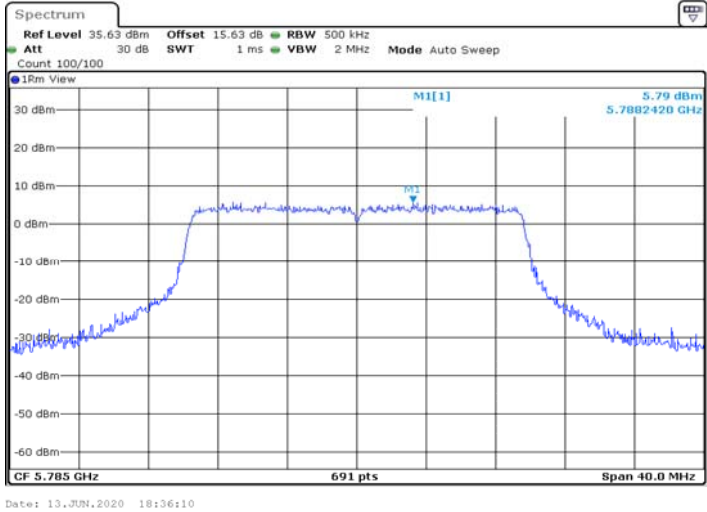
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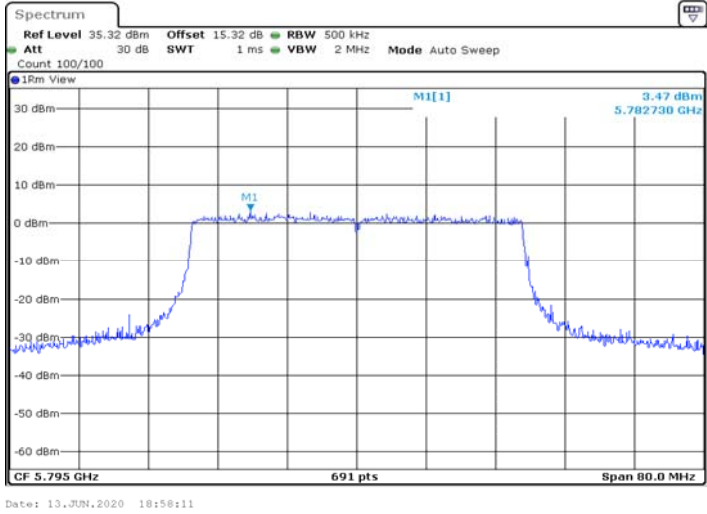
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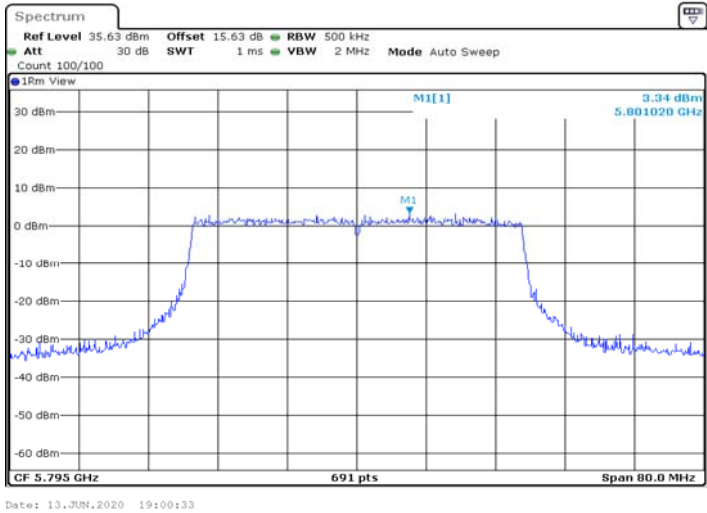
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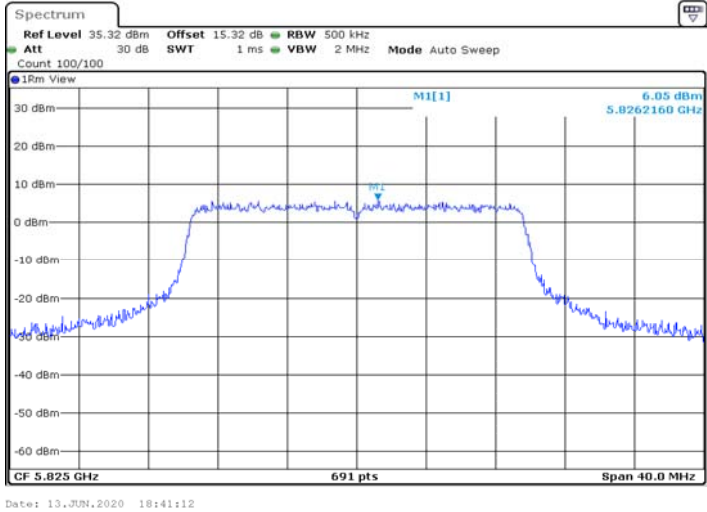
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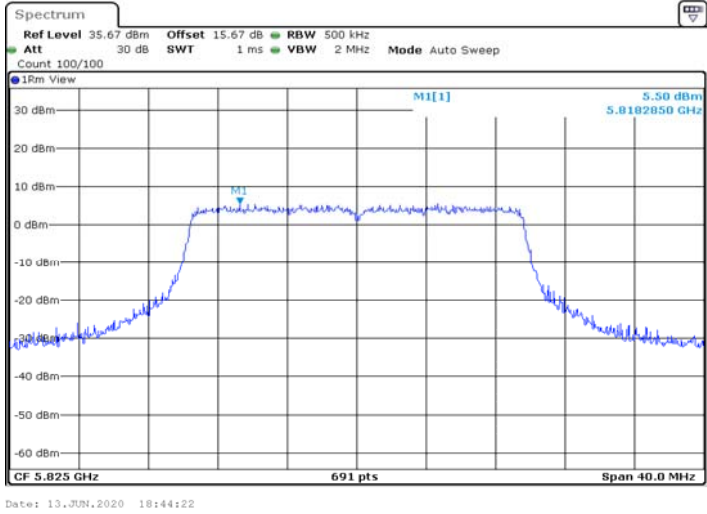
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11ax20MIMO_Ant1_5825



11ax20MIMO_Ant2_5825



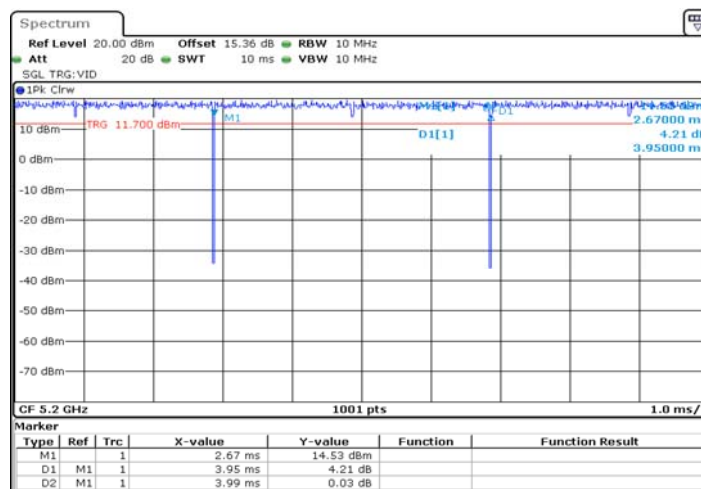
AppendixH: DutyCycle

Test Result

TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant1	5200	3.95	3.99	99.00
	Ant1	5280	1.96	2.00	98.00
	Ant1	5600	3.95	3.99	99.00
	Ant1	5785	3.95	3.99	99.00
11N20MIMO	Ant1	5200	3.95	3.99	99.00
	Ant1	5280	5.41	5.45	99.27
	Ant1	5600	5.41	5.45	99.27
	Ant1	5785	5.41	5.45	99.27
11N40MIMO	Ant1	5190	30.00	30.00	100.00
	Ant1	5270	5.41	5.45	99.27
	Ant1	5550	30.00	30.00	100.00
	Ant1	5755	5.41	5.45	99.27
11ac20MIMO	Ant1	5200	5.41	5.45	99.27
	Ant1	5280	30.00	30.00	100.00
	Ant1	5600	5.41	5.45	99.27
	Ant1	5785	30.00	30.00	100.00
11ac40MIMO	Ant1	5190	5.41	5.45	99.27
	Ant1	5270	5.41	5.45	99.27
	Ant1	5550	5.41	5.45	99.27
	Ant1	5755	30.00	30.00	100.00
11ac80MIMO	Ant1	5210	5.41	5.45	99.27
	Ant1	5290	30.00	30.00	100.00
	Ant1	5610	5.41	5.45	99.27
	Ant1	5775	30.00	30.00	100.00
11ax40MIMO	Ant1	5190	30.00	30.00	100.00
11ax20MIMO	Ant1	5200	5.43	5.47	99.27
11ax80MIMO	Ant1	5210	5.41	5.45	99.27
11ax40MIMO	Ant1	5270	5.43	5.47	99.27
11ax20MIMO	Ant1	5280	30.00	30.00	100.00
11ax80MIMO	Ant1	5290	30.00	30.00	100.00
11ax40MIMO	Ant1	5550	30.00	30.00	100.00
11ax20MIMO	Ant1	5600	5.43	5.47	99.27
11ax80MIMO	Ant1	5610	30.00	30.00	100.00
11ax80MIMO	Ant1	5775	30.00	30.00	100.00
11ax20MIMO	Ant1	5785	5.43	5.47	99.27
11ax40MIMO	Ant1	5795	30.00	30.00	100.00

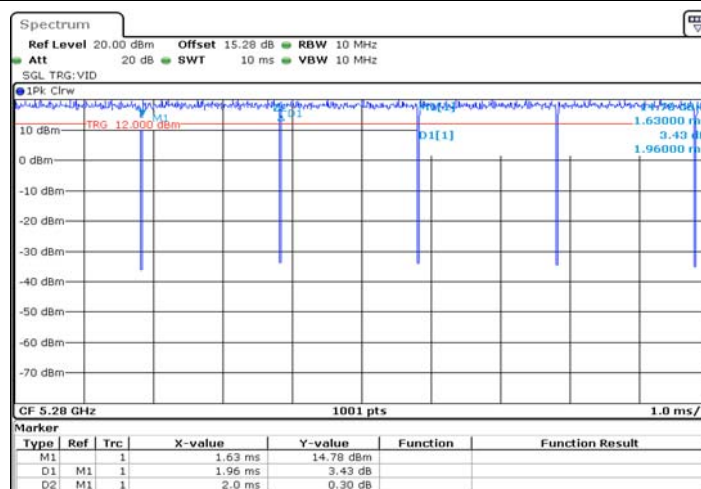
Test Graphs

11a_Ant1_5200



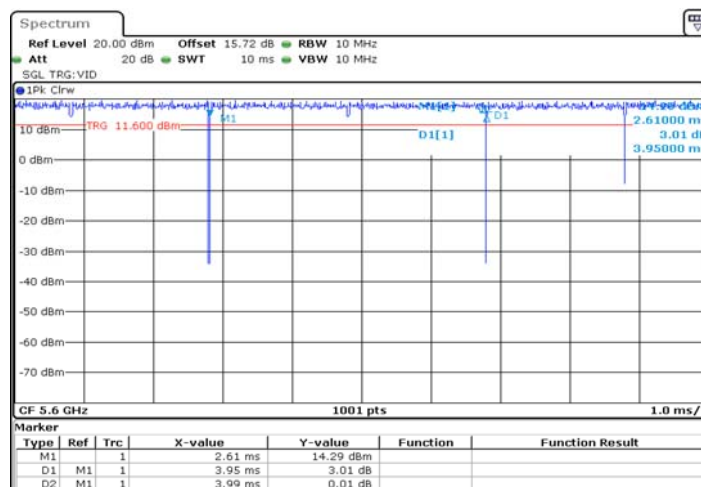
Date: 12 JUN 2020 17:31:40

11a_Ant1_5280



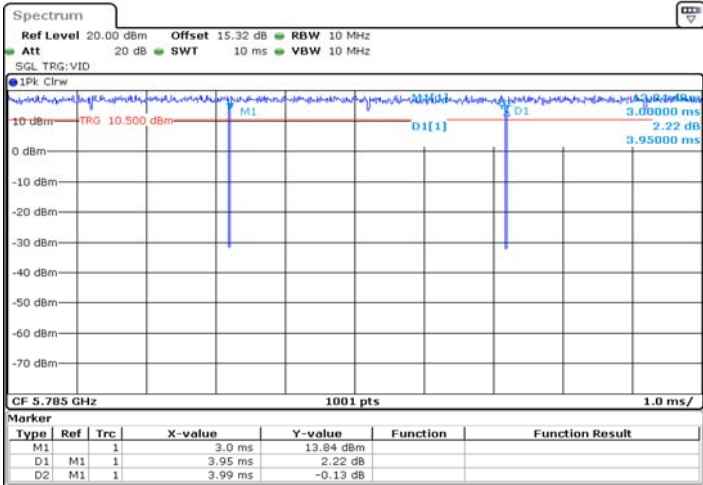
Date: 13 JUN 2020 11:47:13

11a_Ant1_5600



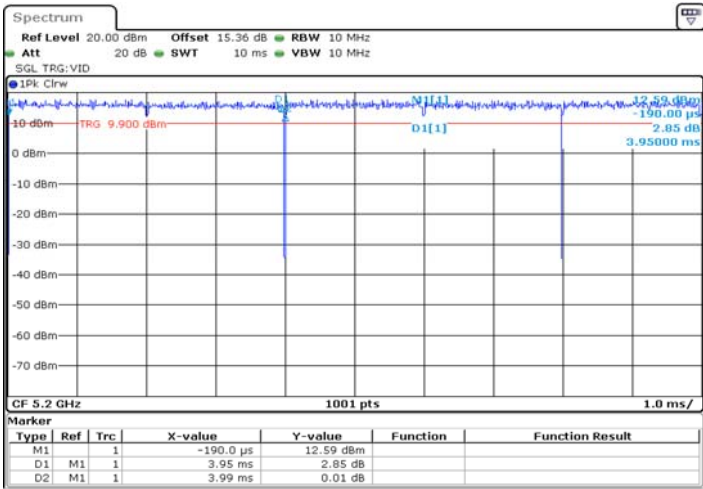
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11a_Ant1_5785



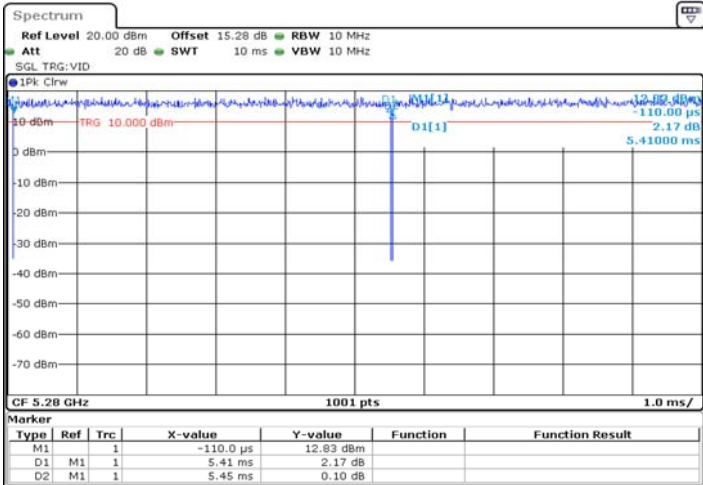
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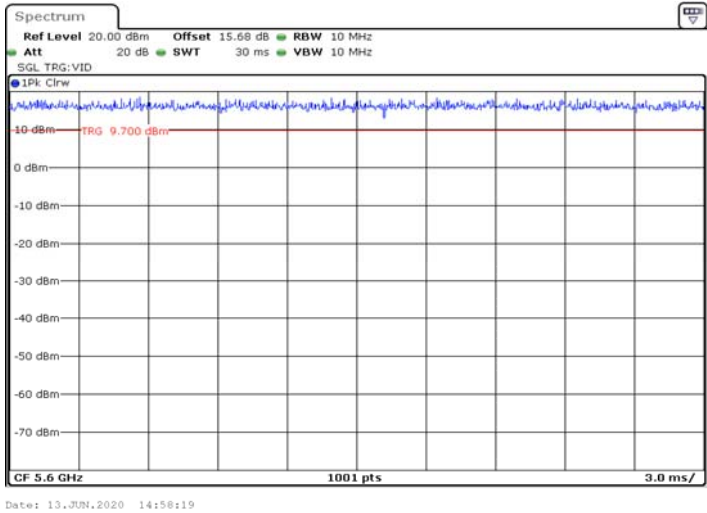
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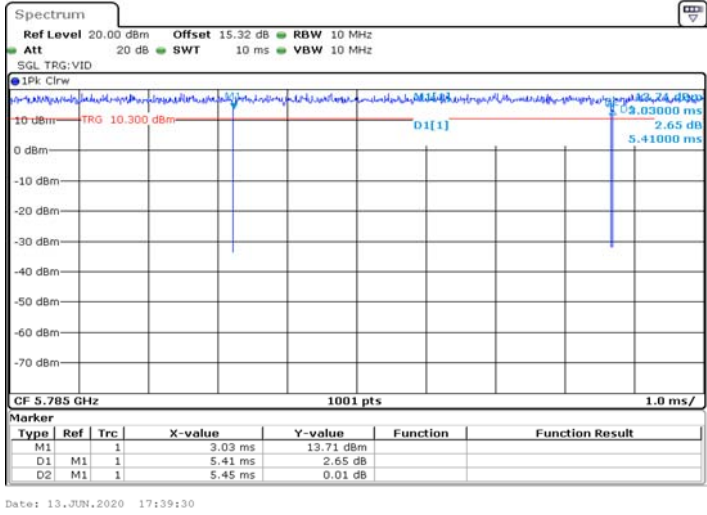


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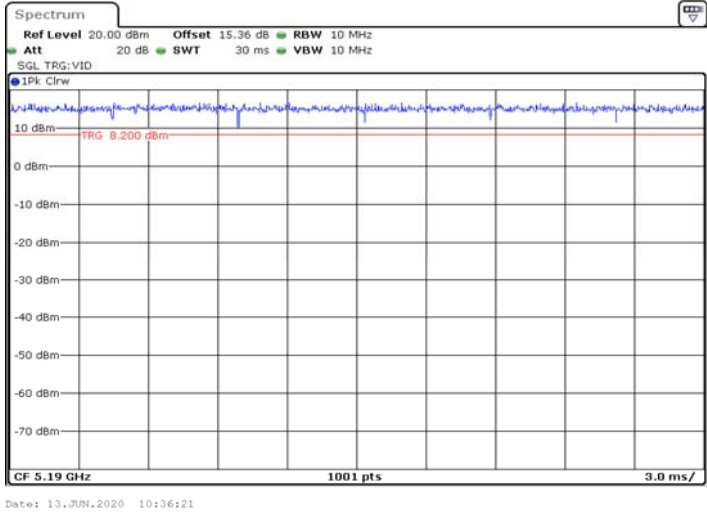
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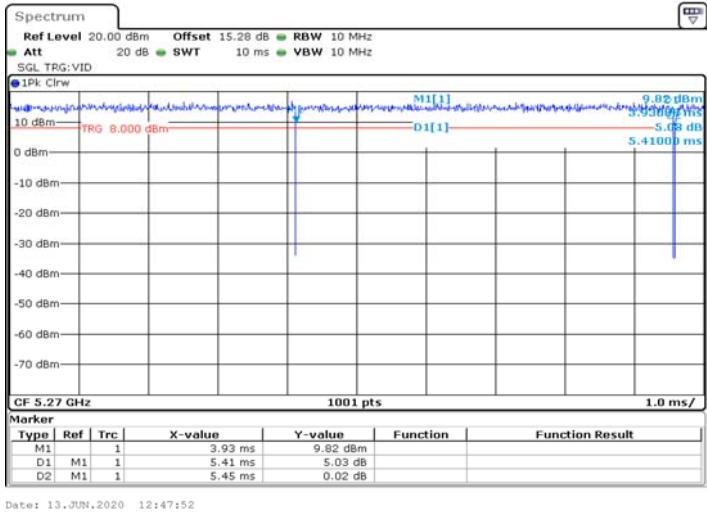
11N20MIMO_Ant1_5785



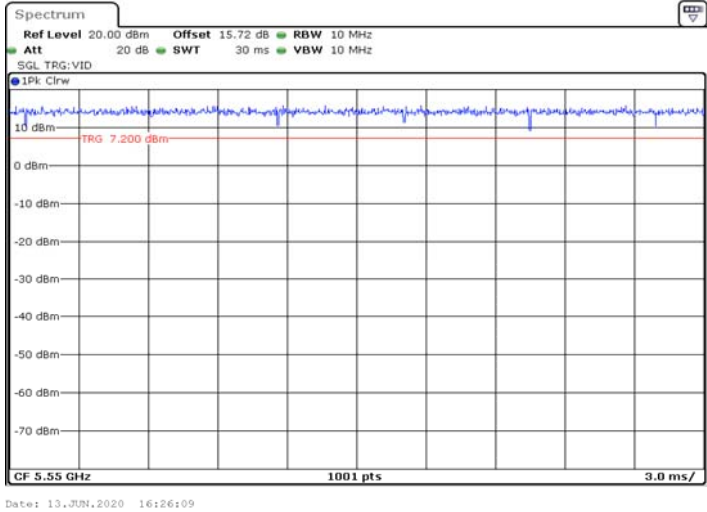
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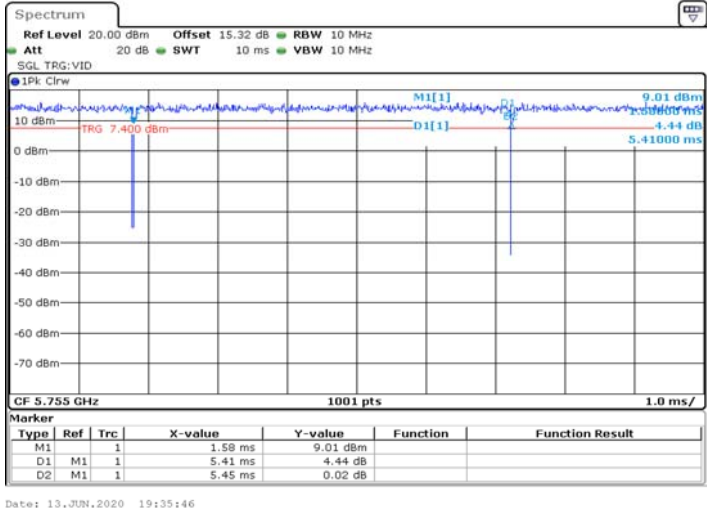
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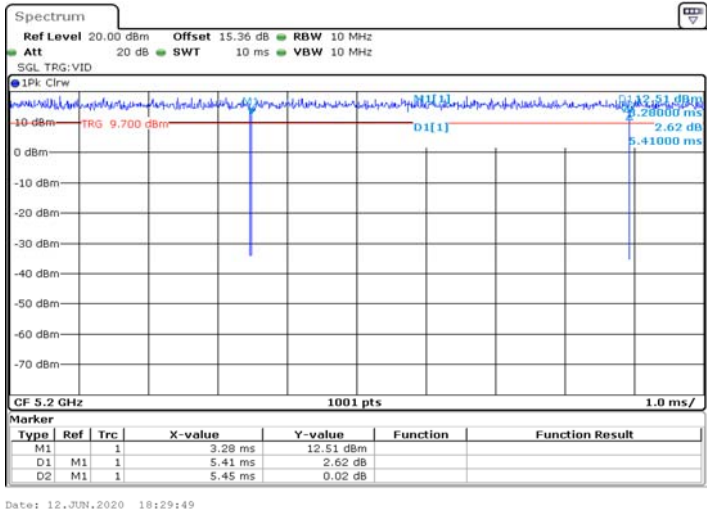
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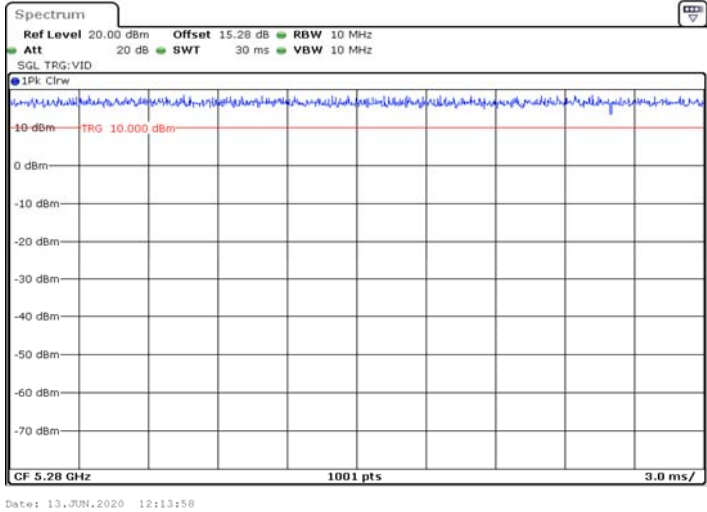
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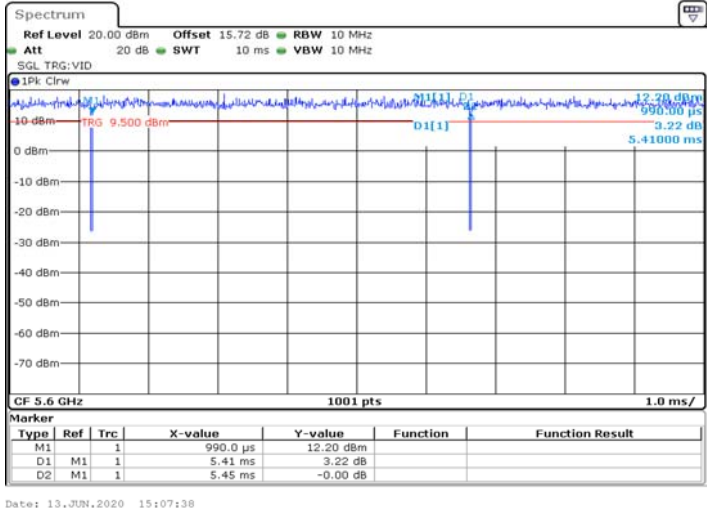
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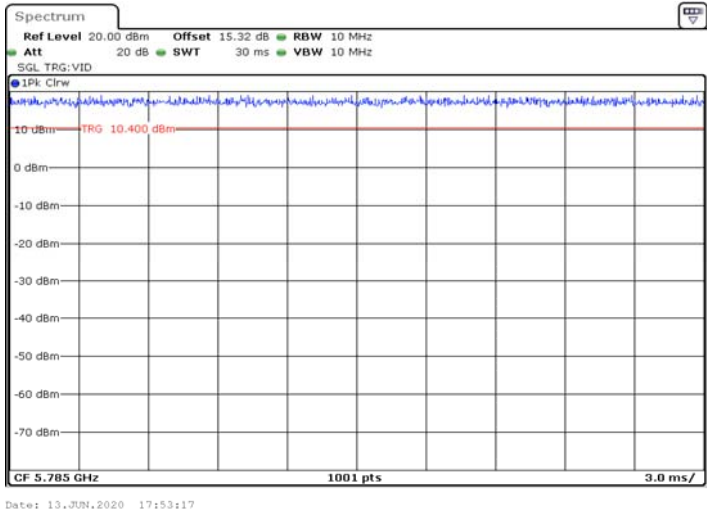
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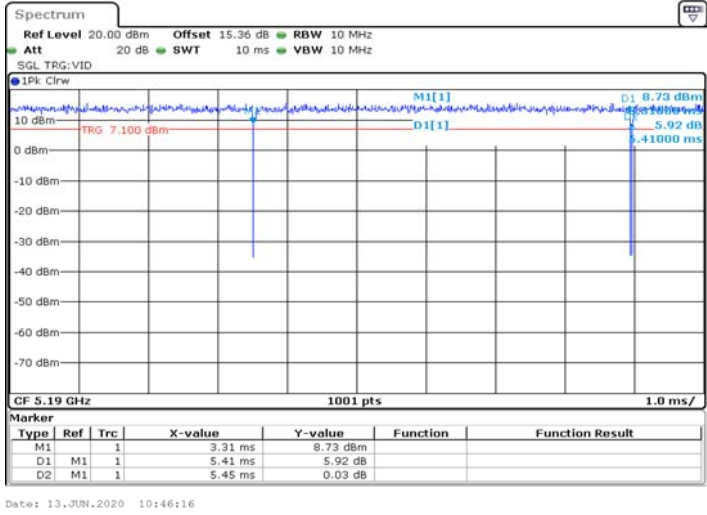
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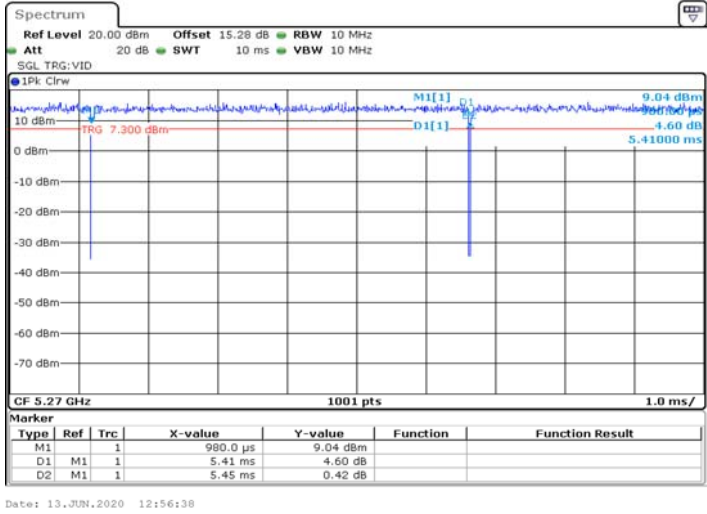
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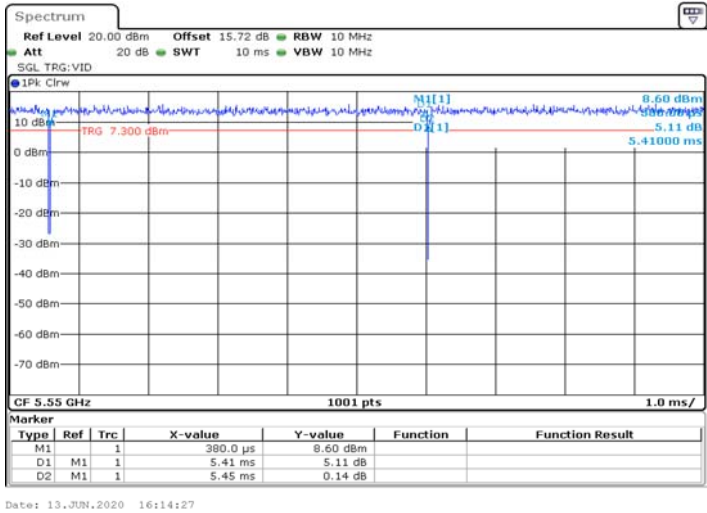
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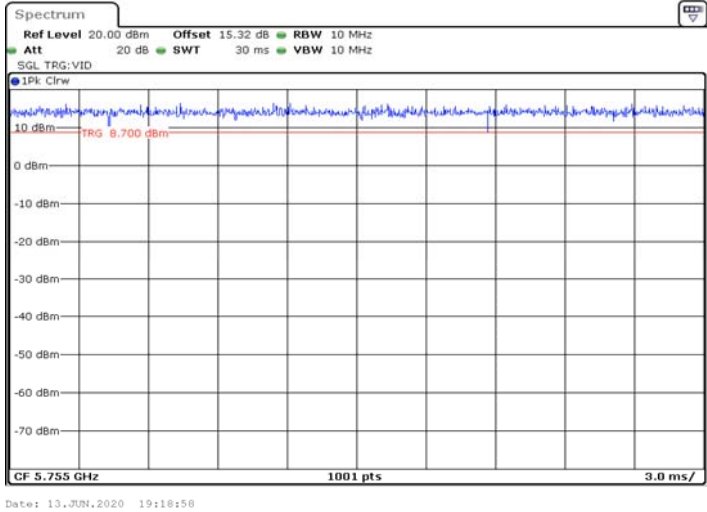
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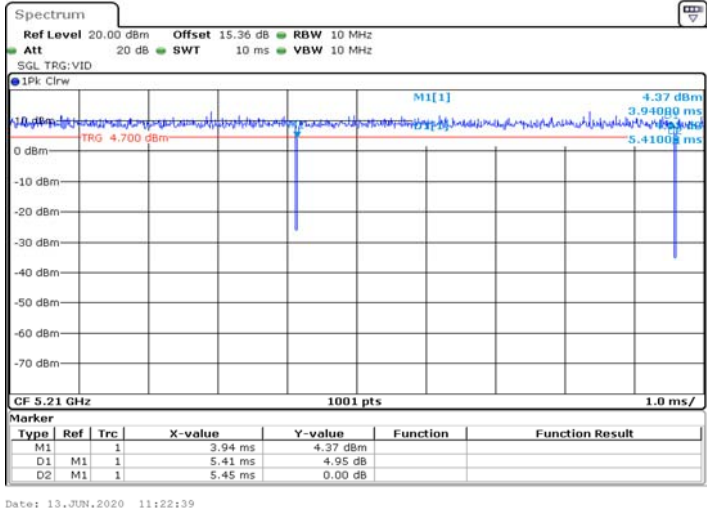
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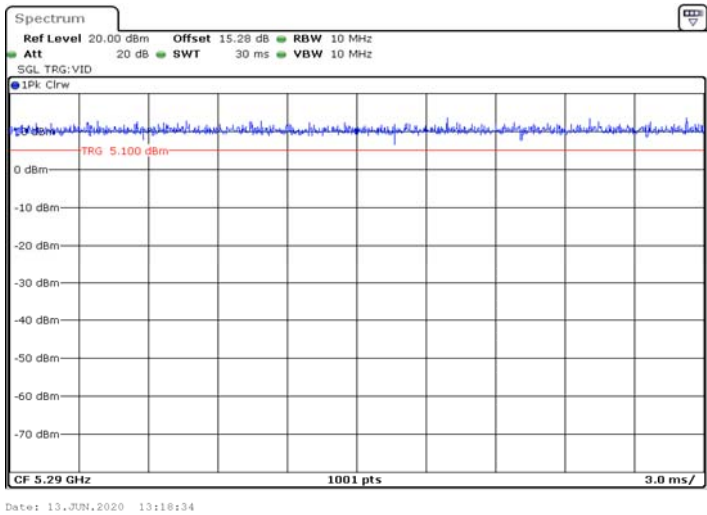
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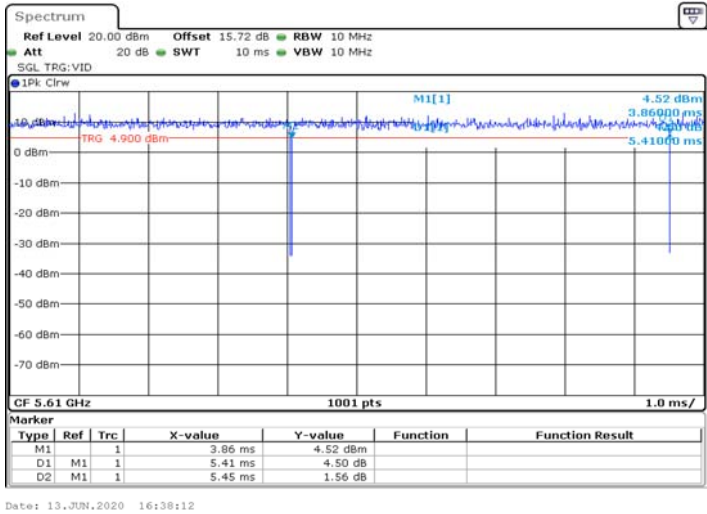
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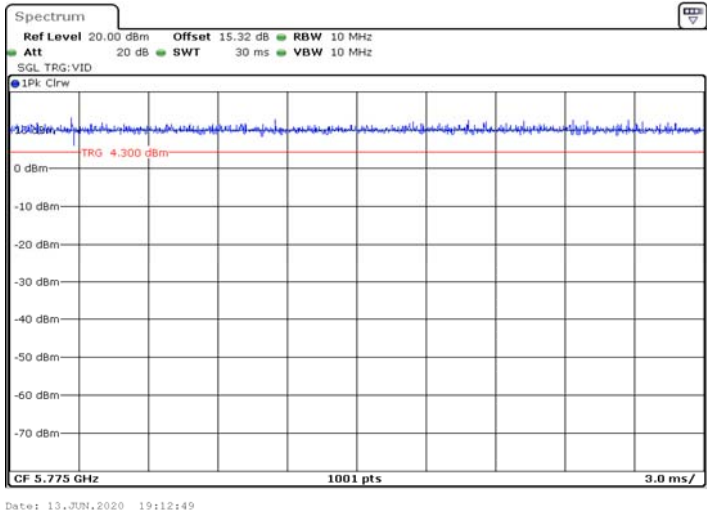
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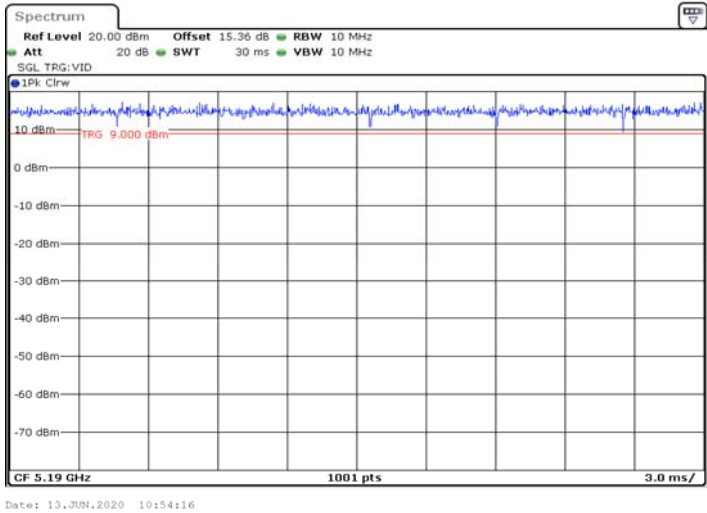
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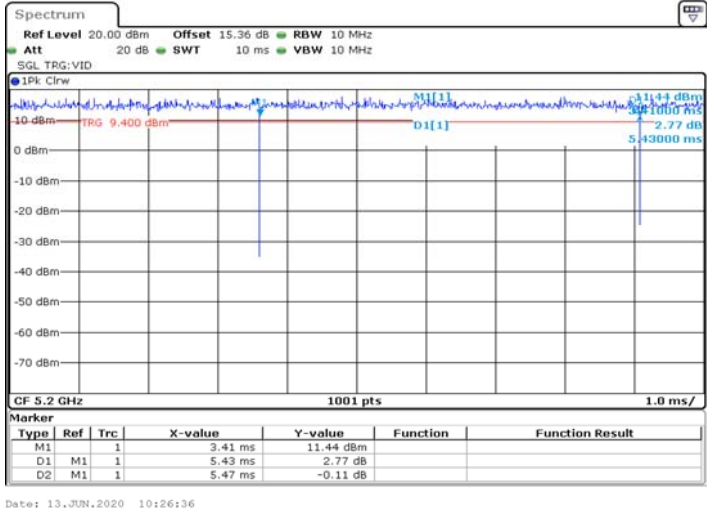
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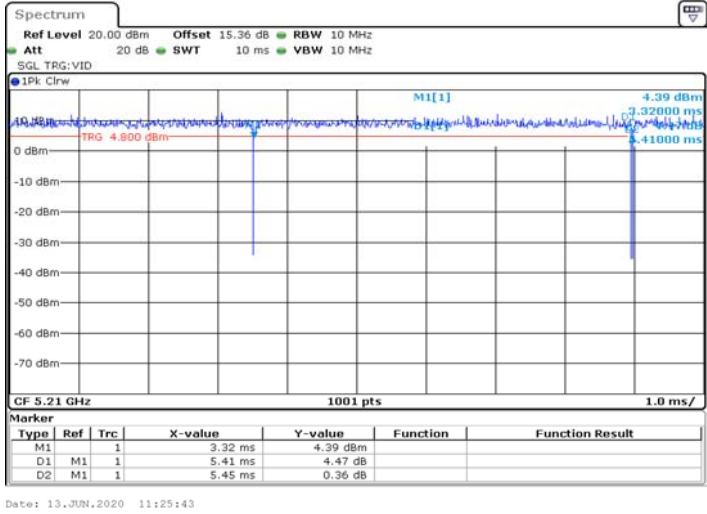
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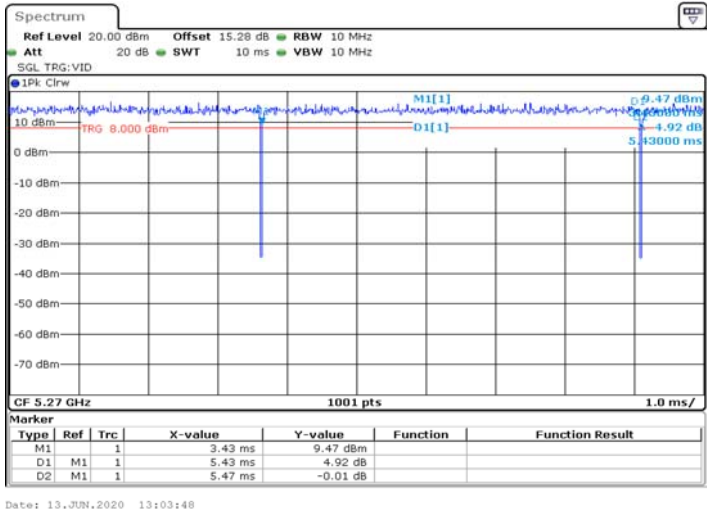
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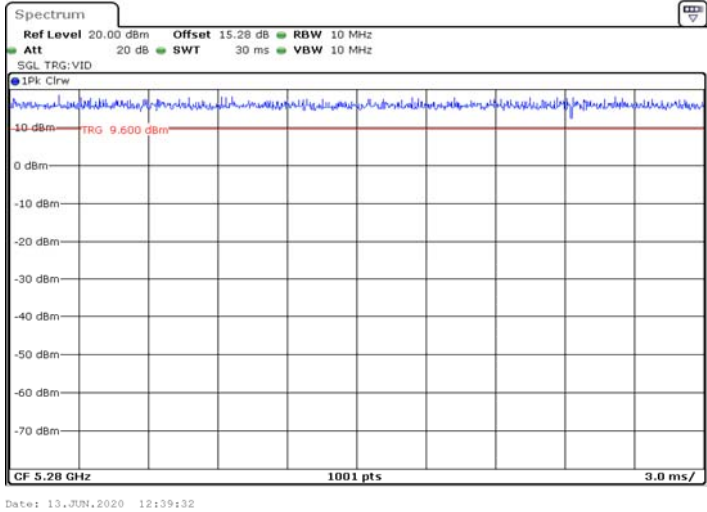
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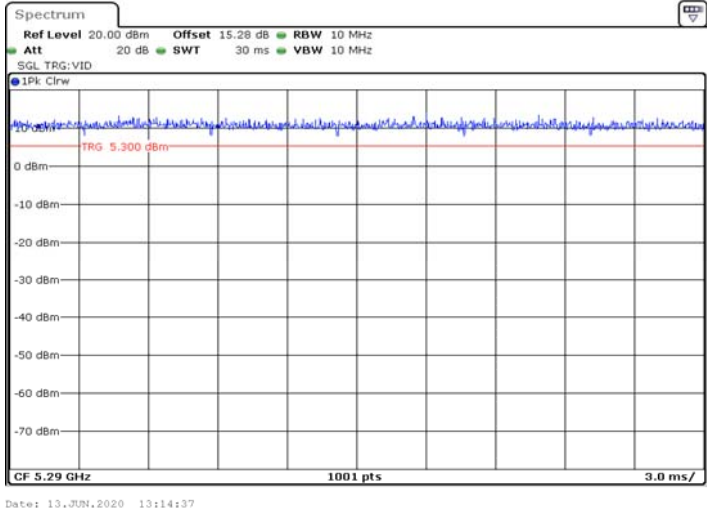
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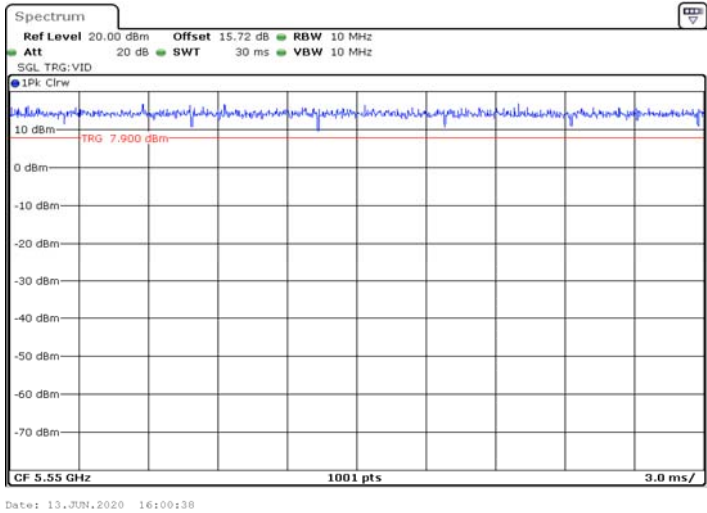
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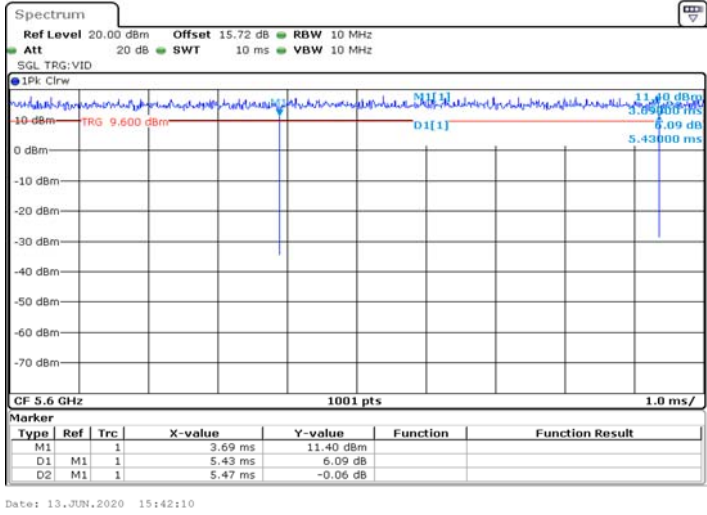
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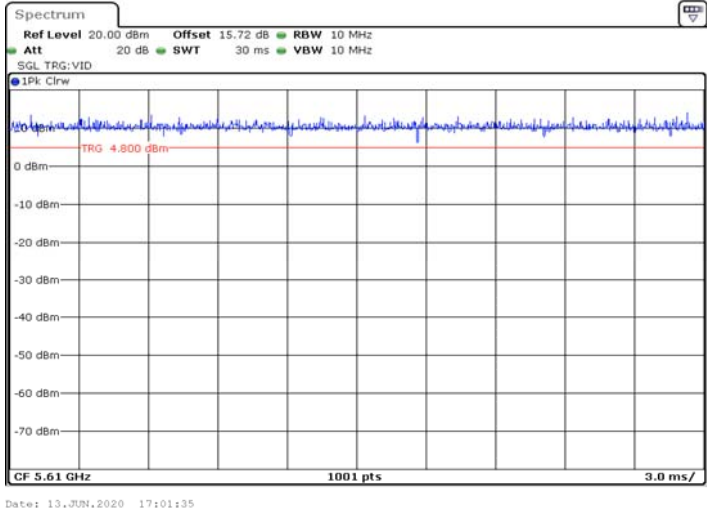
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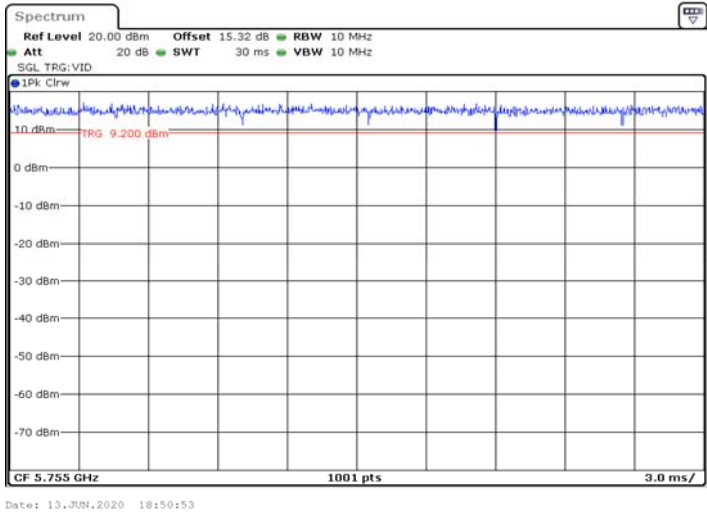
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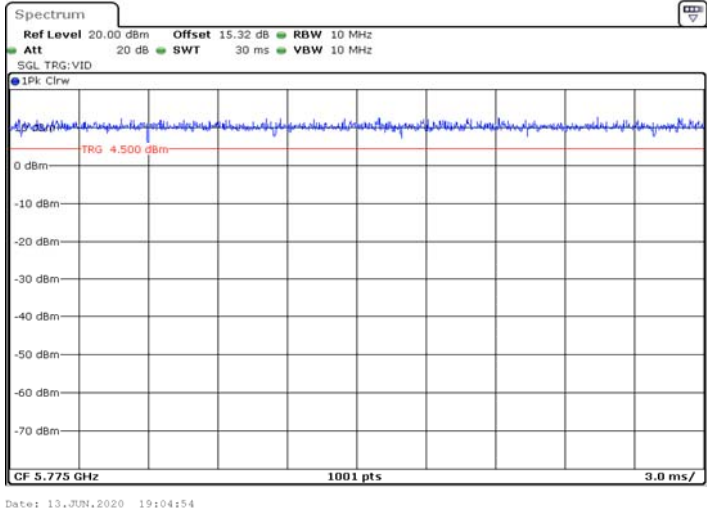
11ax80MIMO_Ant1_5610



11ax40MIMO_Ant1_5755



11ax80MIMO_Ant1_5775



11ax20MIMO_Ant1_5785

