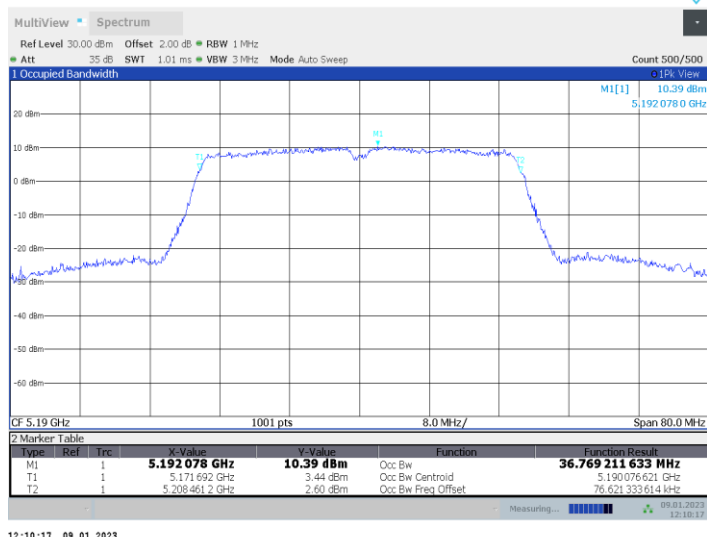


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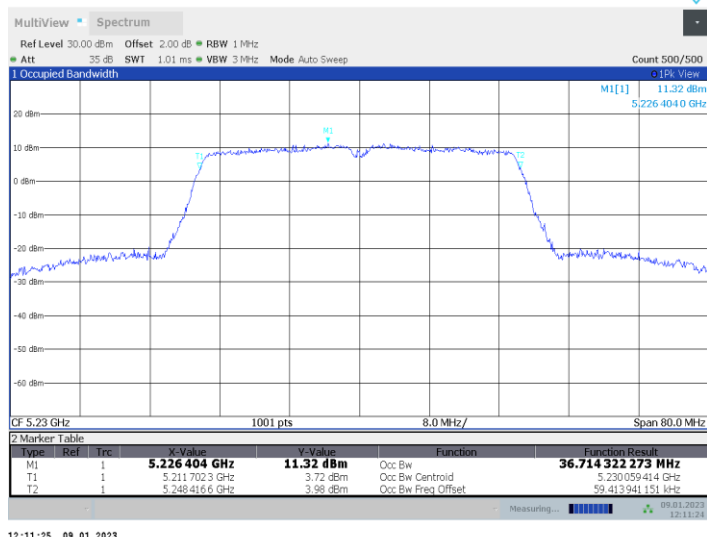
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11ac40SISO Ant1 5190



12:10:17 09.01.2023

11ac40SISO Ant1 5230



12:11:25 09.01.2023



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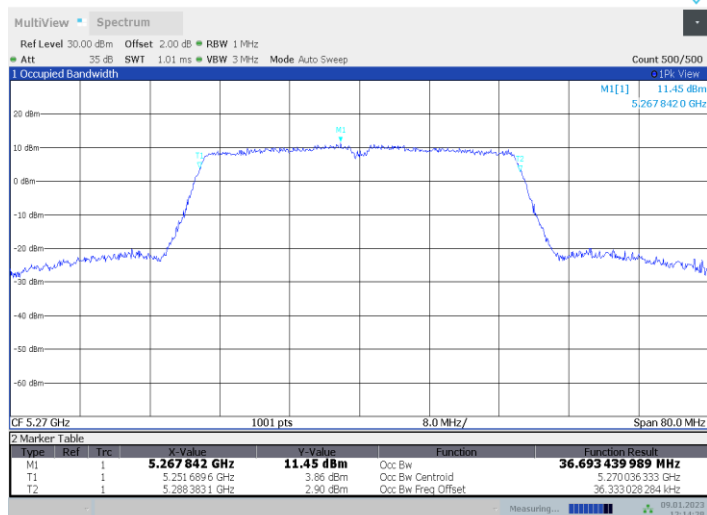
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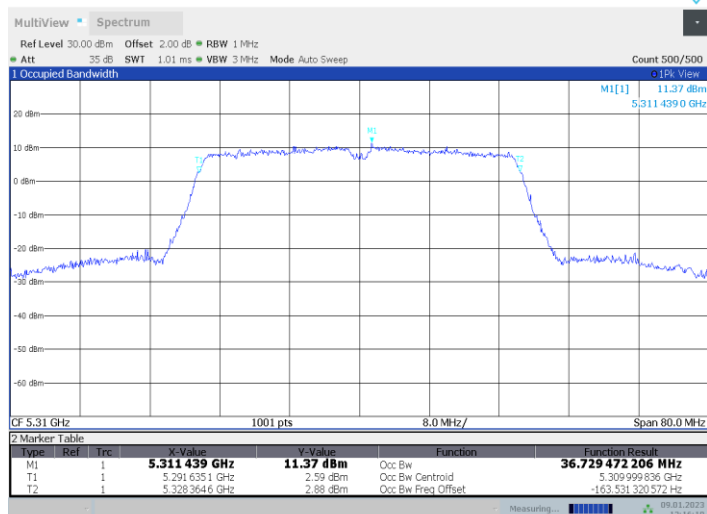
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12:14:28 09.01.2023

11ac40SISO Ant1 5310



12:16:10 09.01.2023



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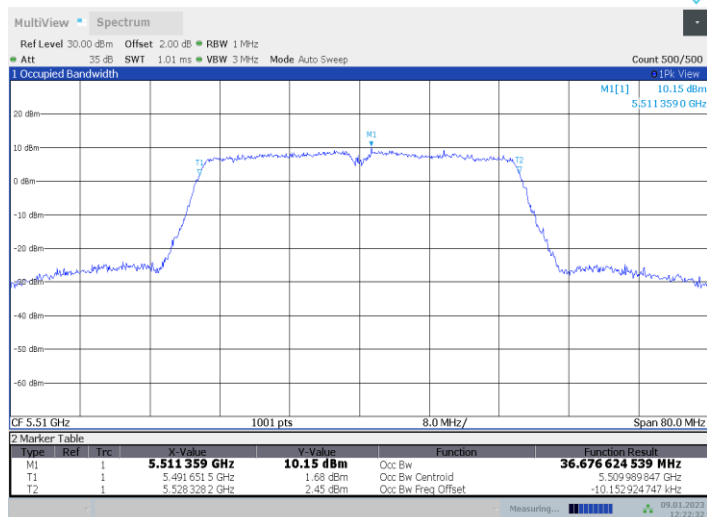
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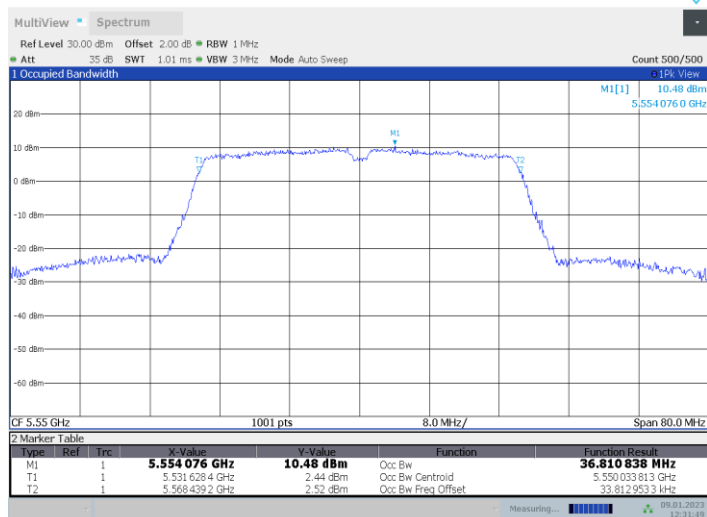
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11ac40SISO Ant1 5510



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11ac40SISO Ant1 5550



12:31:50 09.01.2023



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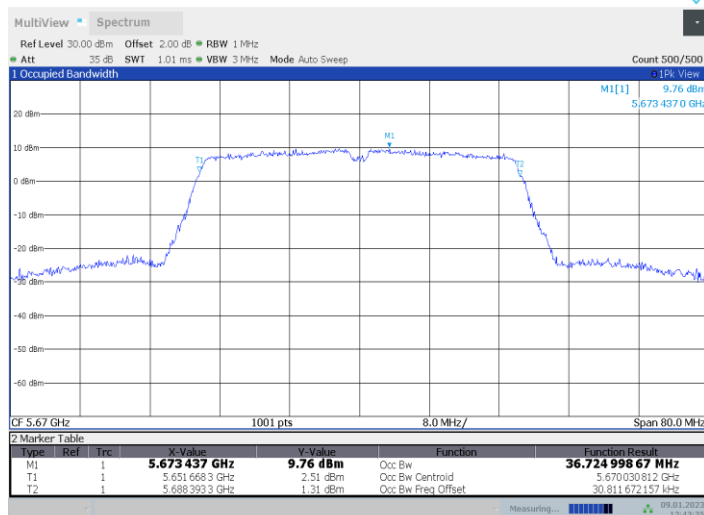
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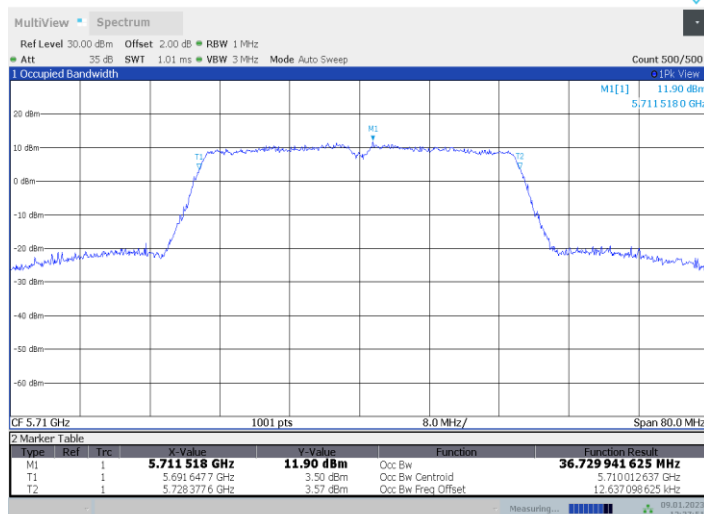
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11ac40SISO Ant1 5670



12:43:36 09.01.2023

11ac40SISO Ant1 5710



12:37:51 09.01.2023



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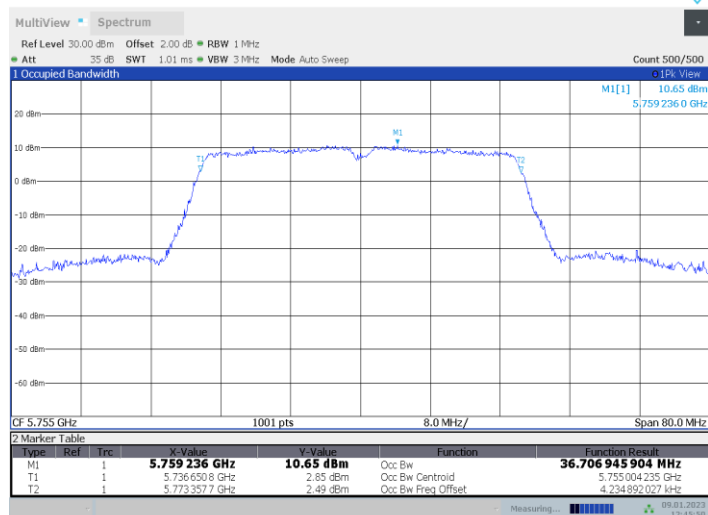
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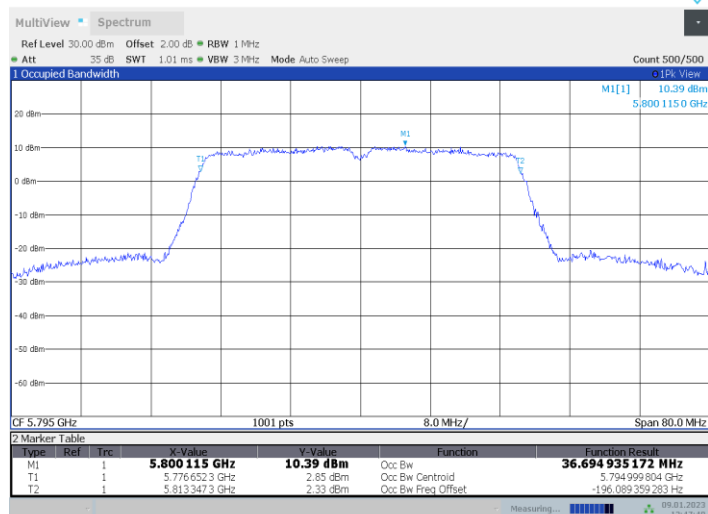
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11ac40SISO Ant1 5795



12:47:41 09.01.2023



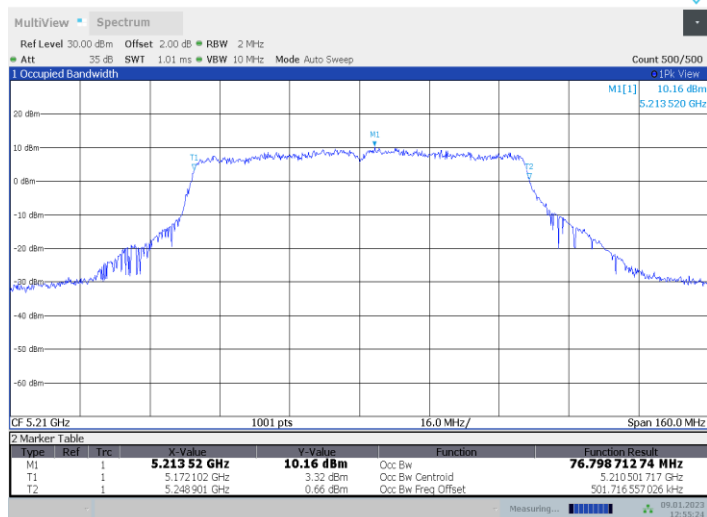
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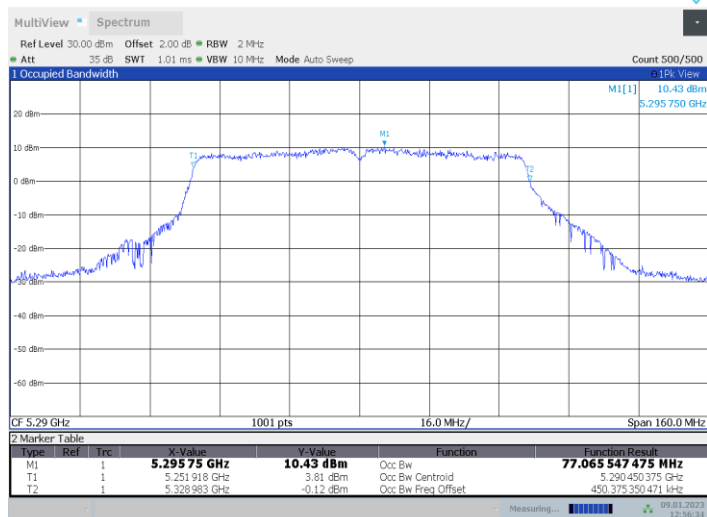
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11ac80SISO Ant1 5290



12:56:34 09.01.2023



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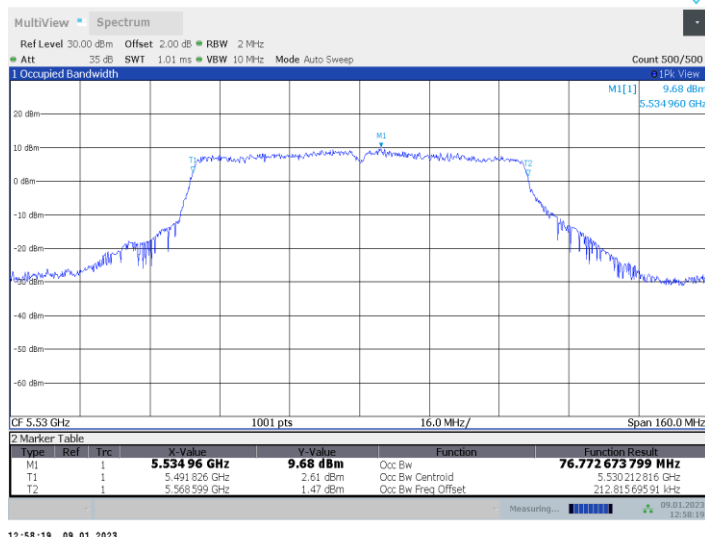
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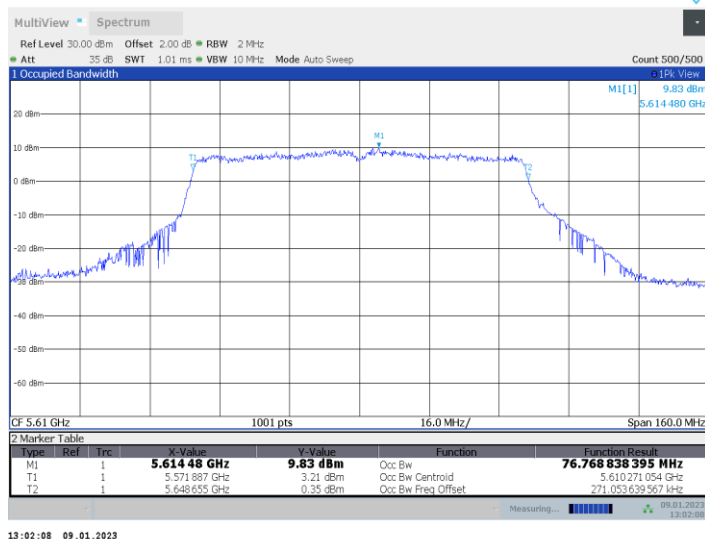
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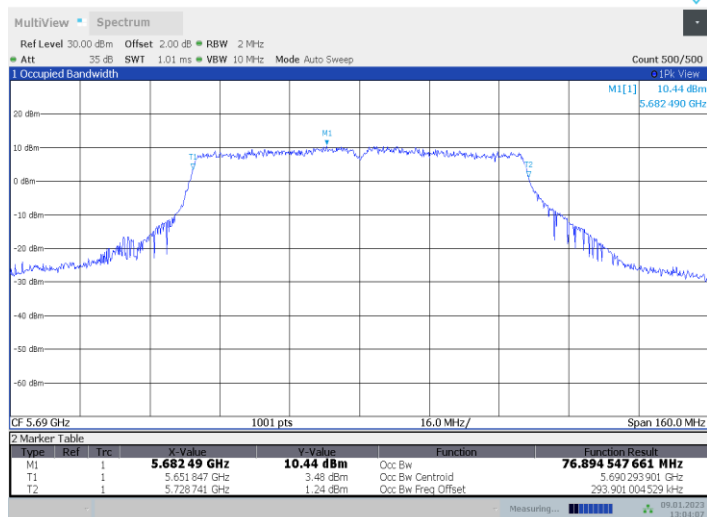


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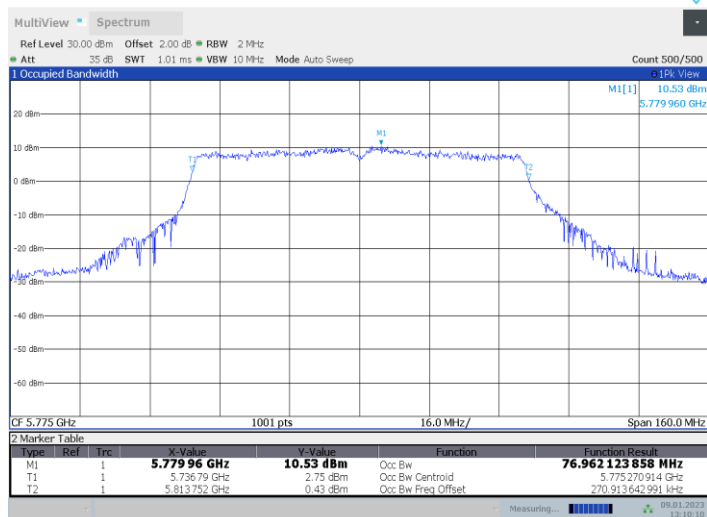
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13:04:08 09.01.2023

11ac80SISO Ant1 5775



13:10:11 09.01.2023



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6dB emission bandwidth Test Result B4

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant1	5745	16.36	5736.80	5753.16	≥0.5	PASS
		5785	16.36	5776.80	5793.16	≥0.5	PASS
		5825	16.40	5816.76	5833.16	≥0.5	PASS
11ac20SISO	Ant1	5745	17.60	5736.16	5753.76	≥0.5	PASS
		5785	17.64	5776.16	5793.80	≥0.5	PASS
		5825	17.64	5816.16	5833.80	≥0.5	PASS
11ac40SISO	Ant1	5755	35.92	5737.08	5773.00	≥0.5	PASS
		5795	35.28	5777.32	5812.60	≥0.5	PASS
11ac80SISO	Ant1	5775	75.52	5737.24	5812.76	≥0.5	PASS

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, ac VHT20/40 by referring to their higher output power.



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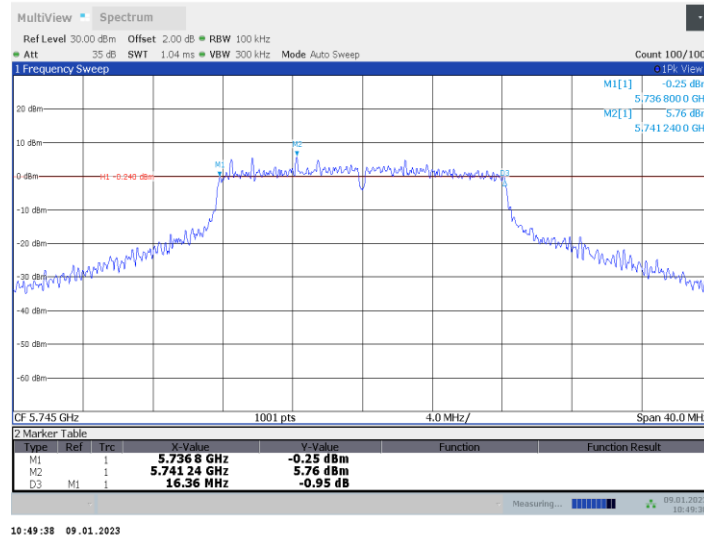
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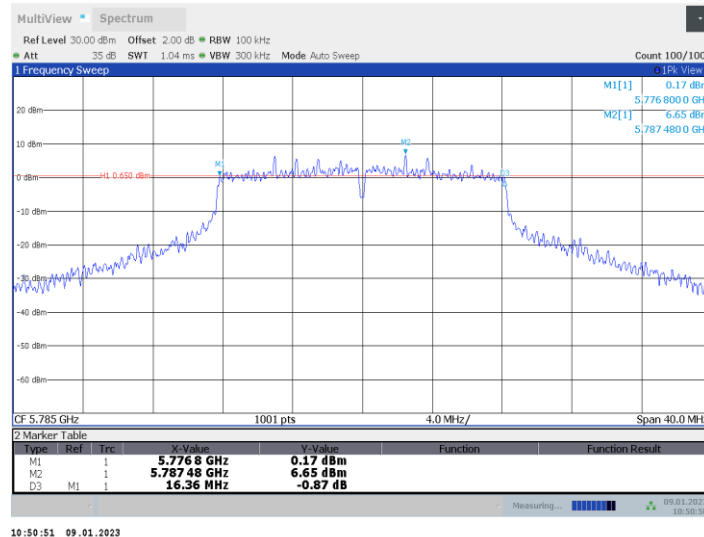
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Test Graphs B4

11a_Ant1_5745



11a_Ant1_5785



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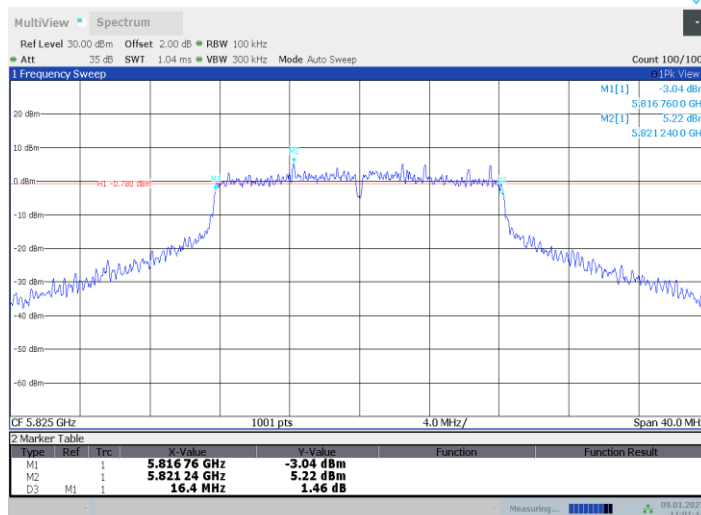
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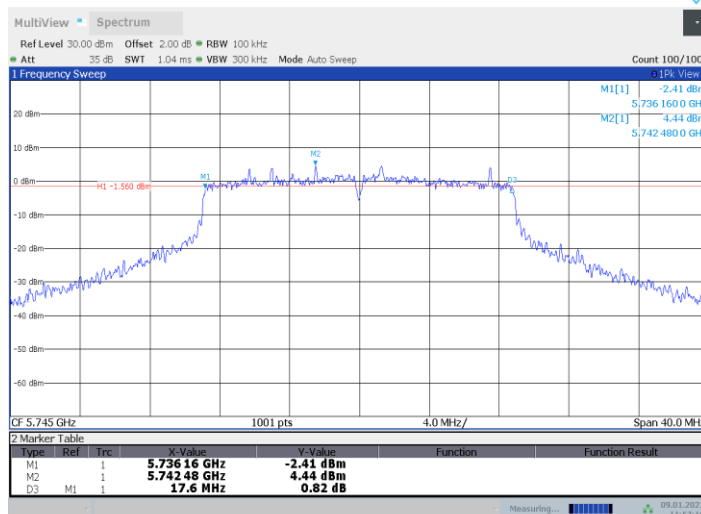
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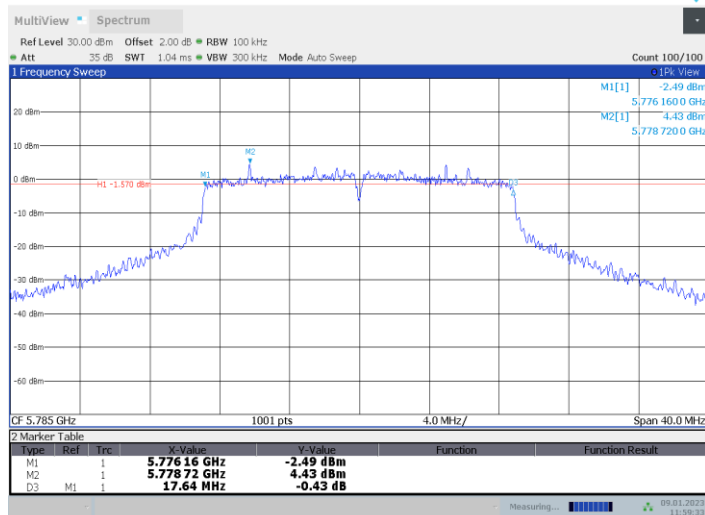
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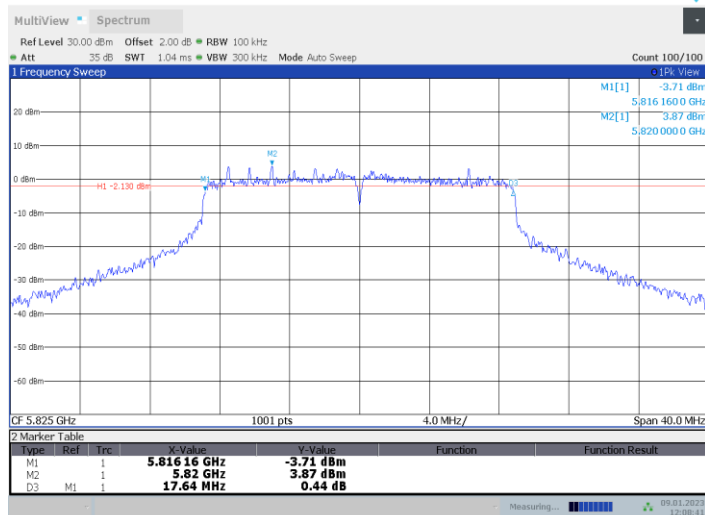
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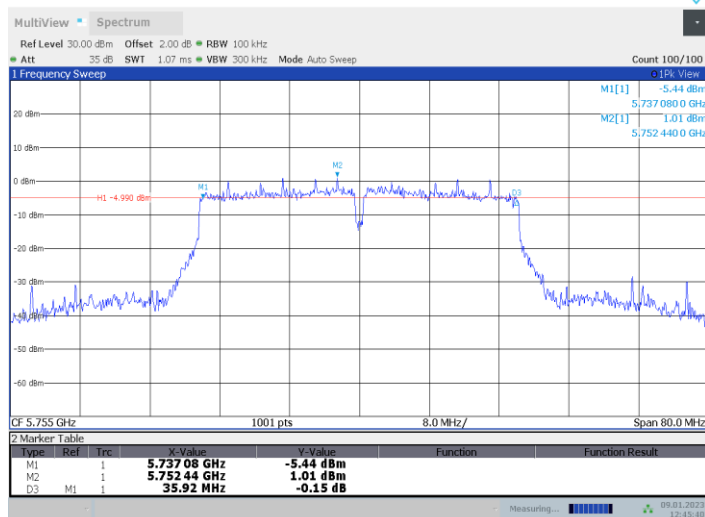
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11ac40SISO Ant1 5755



12:45:41 09.01.2023

11ac40SISO Ant1 5795



12:47:30 09.01.2023



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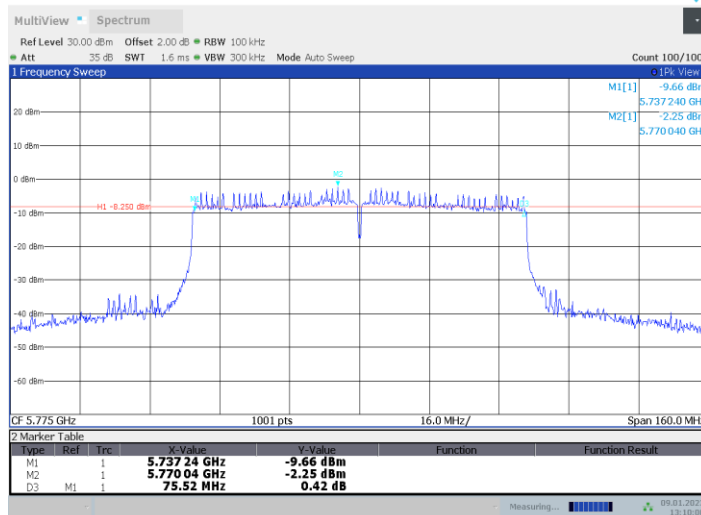
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11ac80SISO_Ant1_5775



13:10:01 09.01.2023



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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant1	5180	2.03	2.16	93.98
11n20SISO	Ant1	5180	1.71	1.83	93.44
11n40SISO	Ant1	5190	0.84	0.97	86.60
11ac20SISO	Ant1	5180	1.71	1.84	92.93
11ac40SISO	Ant1	5190	0.85	0.97	87.63
11ac80SISO	Ant1	5210	0.41	0.53	77.36

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11a	2.03	2.16	93.98	0.49261	1KHz
11n20SISO	1.71	1.83	93.44	0.58480	1KHz
11n40SISO	0.84	0.97	86.60	1.19048	3KHz
11ac20SISO	1.71	1.84	92.93	0.58480	1KHz
11ac40SISO	0.85	0.97	87.63	1.17647	3KHz
11ac80SISO	0.41	0.53	77.36	2.43902	3KHz



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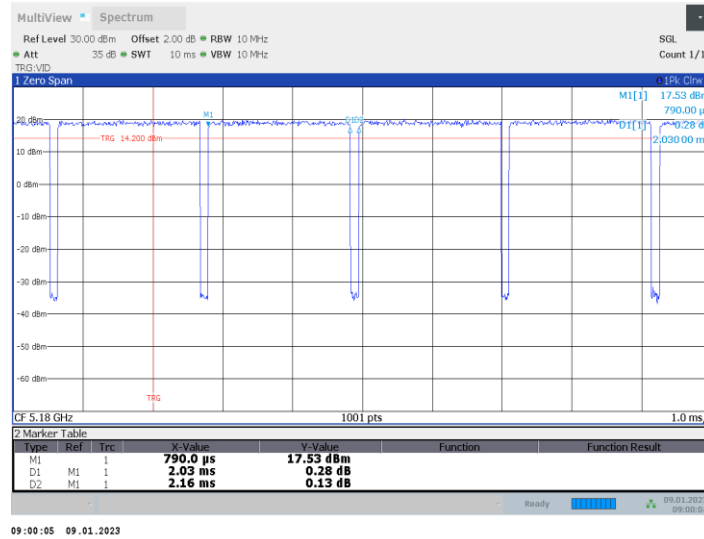
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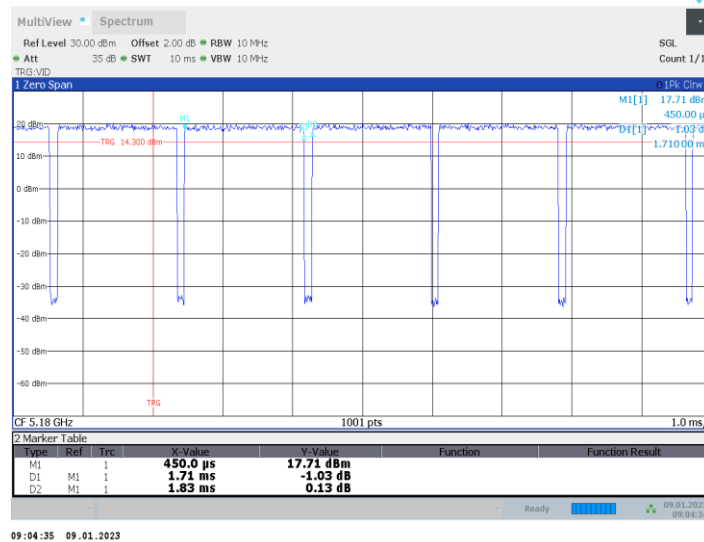
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Test Graphs

11a_Ant1_5180



11n20SISO_Ant1_5180

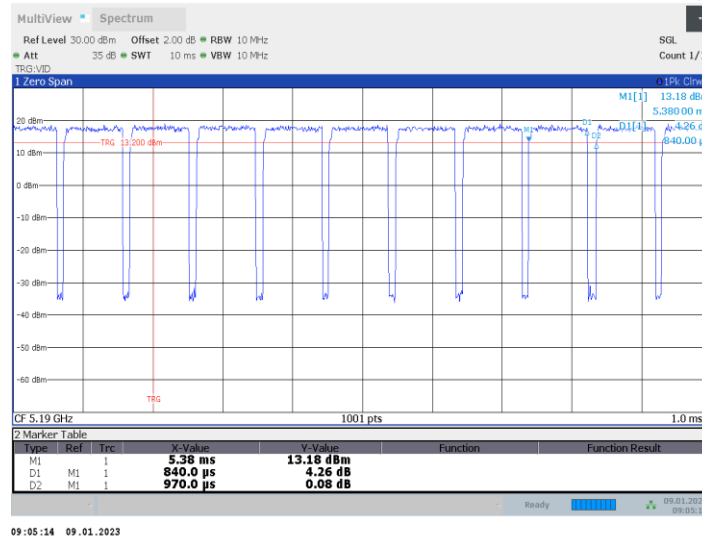


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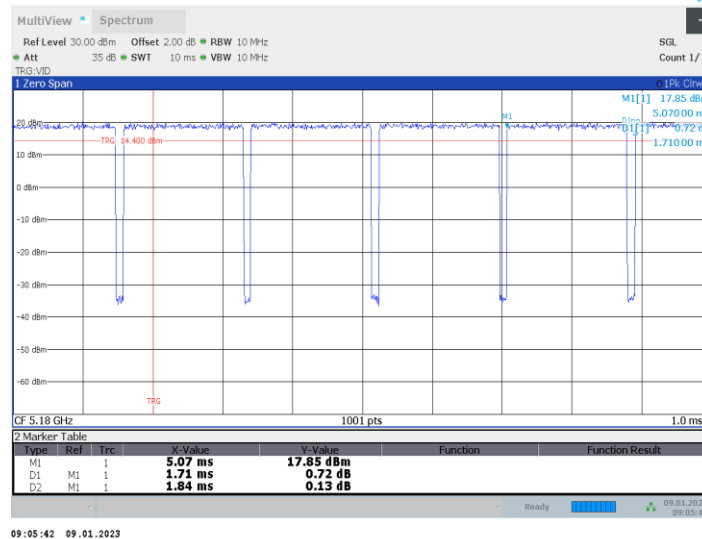
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11n40SISO_Ant1_5190



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11ac20SISO_Ant1_5180



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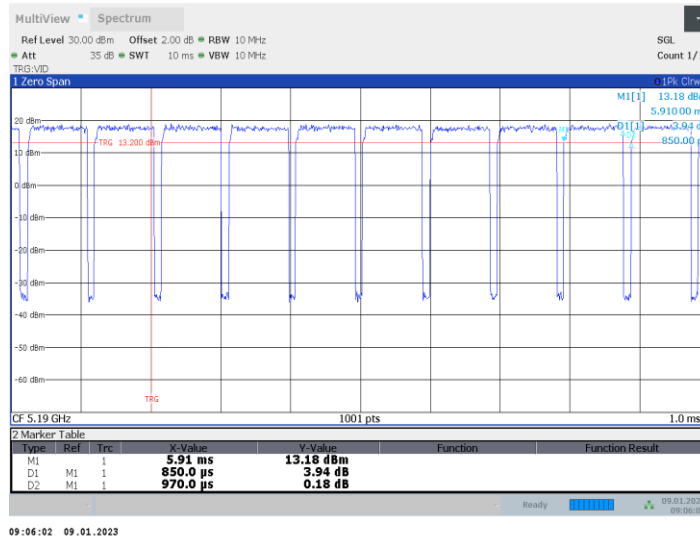
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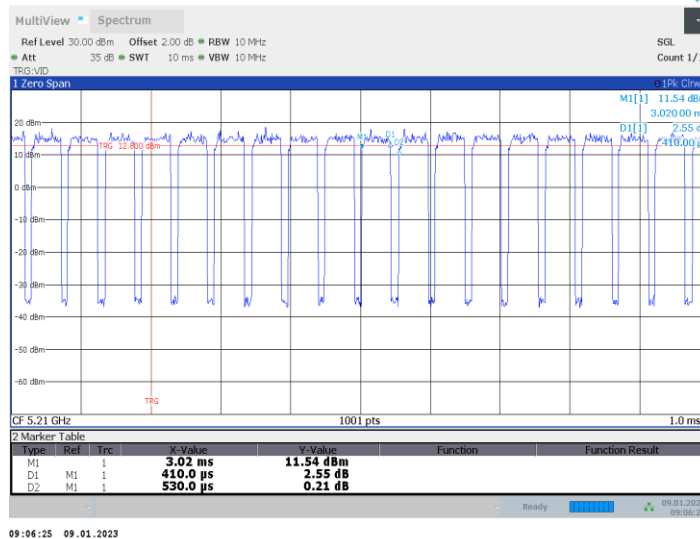
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11ac40SISO Ant1 5190



11ac80SISO Ant1 5210



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Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11a	Ant1	5180	15.89	≤23.98	PASS
		5220	15.69	≤23.98	PASS
		5240	15.80	≤23.98	PASS
		5260	16.17	≤23.98	PASS
		5300	16.54	≤23.98	PASS
		5320	16.52	≤23.98	PASS
		5500	15.53	≤23.98	PASS
		5580	15.23	≤23.98	PASS
		5700	16.83	≤23.98	PASS
		5720	15.98	≤23.56	PASS
		5745	17.11	≤30.00	PASS
		5785	17.09	≤30.00	PASS
		5825	16.65	≤30.00	PASS
11n20SISO	Ant1	5180	14.87	≤23.98	PASS
		5220	15.32	≤23.98	PASS
		5240	15.33	≤23.98	PASS
		5260	15.47	≤23.98	PASS
		5300	15.62	≤23.98	PASS
		5320	15.61	≤23.98	PASS
		5500	14.70	≤23.98	PASS
		5580	14.32	≤23.98	PASS
		5700	15.65	≤23.98	PASS
		5720	14.89	≤23.40	PASS
		5745	15.61	≤30.00	PASS
		5785	15.71	≤30.00	PASS
		5825	15.43	≤30.00	PASS
11n40SISO	Ant1	5190	13.41	≤23.98	PASS
		5230	14.61	≤23.98	PASS
		5270	14.72	≤23.98	PASS
		5310	12.00	≤23.98	PASS
		5510	12.24	≤23.98	PASS
		5550	14.61	≤23.98	PASS
		5670	14.32	≤23.98	PASS
		5710	14.31	≤23.98	PASS
		5755	14.60	≤30.00	PASS
		5795	14.51	≤30.00	PASS
11ac20SISO	Ant1	5180	14.97	≤23.98	PASS
		5220	15.41	≤23.98	PASS
		5240	15.43	≤23.98	PASS
		5260	15.57	≤23.98	PASS
		5300	15.77	≤23.98	PASS
		5320	15.72	≤23.98	PASS
		5500	14.71	≤23.98	PASS
		5580	14.33	≤23.98	PASS
		5700	15.71	≤23.98	PASS
		5720	14.99	≤23.40	PASS
		5745	15.68	≤30.00	PASS
		5785	15.84	≤30.00	PASS
		5825	15.50	≤30.00	PASS
11ac40SISO	Ant1	5190	13.48	≤23.98	PASS
		5230	14.72	≤23.98	PASS



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		5270	14.97	≤23.98	PASS
		5310	12.01	≤23.98	PASS
		5510	12.26	≤23.98	PASS
		5550	14.62	≤23.98	PASS
		5670	14.41	≤23.98	PASS
		5710	14.40	≤23.98	PASS
		5755	14.62	≤30.00	PASS
		5795	14.65	≤30.00	PASS
11ac80SISO	Ant1	5210	11.43	≤23.98	PASS
		5290	11.49	≤23.98	PASS
		5530	11.69	≤23.98	PASS
		5610	13.15	≤23.98	PASS
		5690	13.88	≤23.98	PASS
		5775	13.65	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11a	Ant1	5180	5.47	≤11.00	PASS
		5220	5.17	≤11.00	PASS
		5240	5.12	≤11.00	PASS
		5260	5.46	≤11.00	PASS
		5300	6.17	≤11.00	PASS
		5320	6.05	≤11.00	PASS
		5500	4.87	≤11.00	PASS
		5580	4.93	≤11.00	PASS
		5700	6.15	≤11.00	PASS
		5720 UNII-2C	6.2	≤11.00	PASS
		5720 UNII-3	1.87	≤30.00	PASS
		5745	4.1	≤30.00	PASS
		5785	3.81	≤30.00	PASS
		5825	3.27	≤30.00	PASS
11ac20SISO	Ant1	5180	4.15	≤11.00	PASS
		5220	4.77	≤11.00	PASS
		5240	4.65	≤11.00	PASS
		5260	4.79	≤11.00	PASS
		5300	4.89	≤11.00	PASS
		5320	4.81	≤11.00	PASS
		5500	3.97	≤11.00	PASS
		5580	3.6	≤11.00	PASS
		5700	5.1	≤11.00	PASS
		5720 UNII-2C	5.03	≤11.00	PASS
		5720 UNII-3	0.77	≤30.00	PASS
		5745	2.16	≤30.00	PASS
		5785	2.27	≤30.00	PASS
		5825	1.95	≤30.00	PASS
11ac40SISO	Ant1	5190	-1.05	≤11.00	PASS
		5230	1.04	≤11.00	PASS
		5270	1.32	≤11.00	PASS
		5310	-0.96	≤11.00	PASS
		5510	-0.63	≤11.00	PASS
		5550	0.79	≤11.00	PASS
		5670	0.55	≤11.00	PASS
		5710 UNII-2C	1.23	≤11.00	PASS
		5710 UNII-3	-3.52	≤30.00	PASS
		5755	-1.39	≤30.00	PASS
		5795	-1.38	≤30.00	PASS
		5210	-5.13	≤11.00	PASS
		5290	-4.64	≤11.00	PASS
		5530	-5.16	≤11.00	PASS
11ac80SISO	Ant1	5610	-3.77	≤11.00	PASS
		5690 UNII-2C	-1.65	≤11.00	PASS
		5690 UNII-3	-6.33	≤30.00	PASS
		5775	-5.82	≤30.00	PASS

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.

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, ac VHT20/40 by referring to their higher output power.



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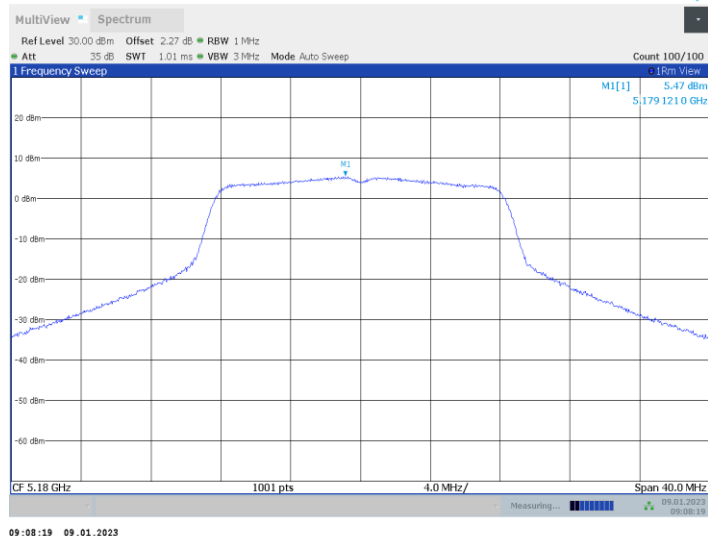
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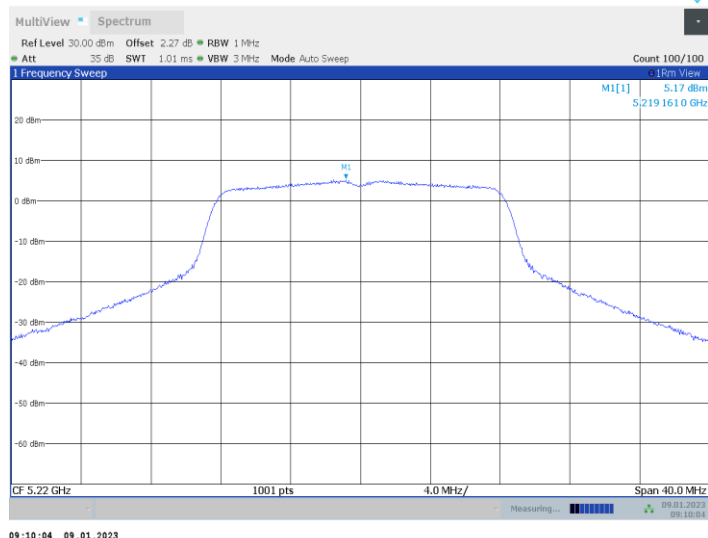
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Test Graphs

11a_Ant1_5180



11a_Ant1_5220



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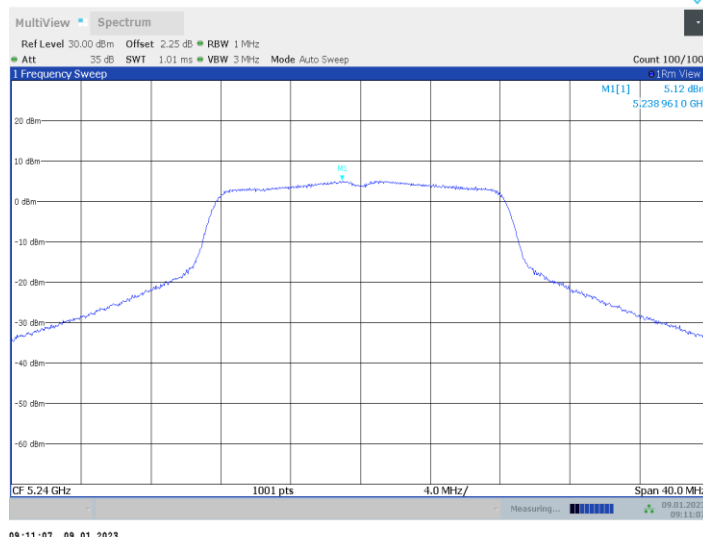
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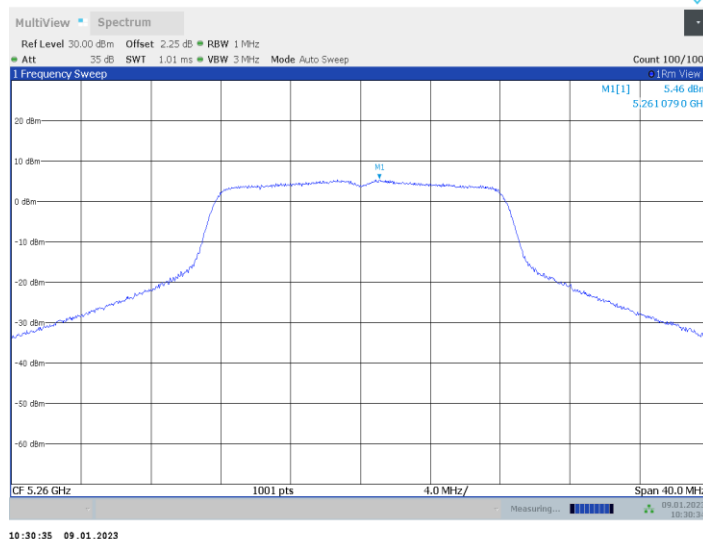
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11a Ant1 5240



11a Ant1 5260



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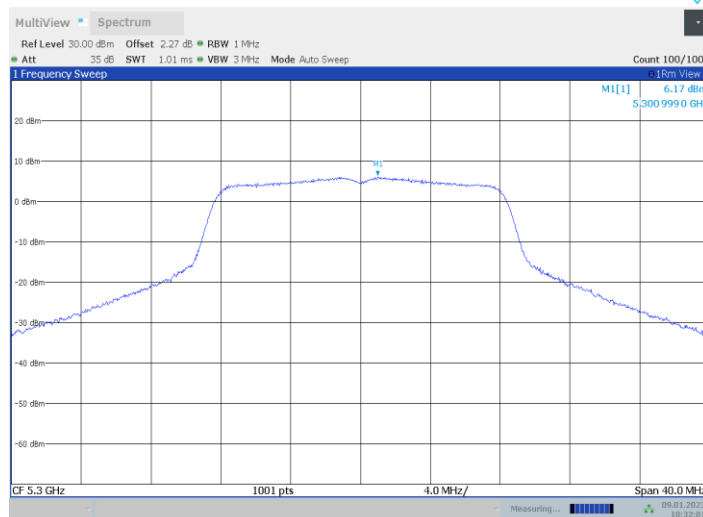
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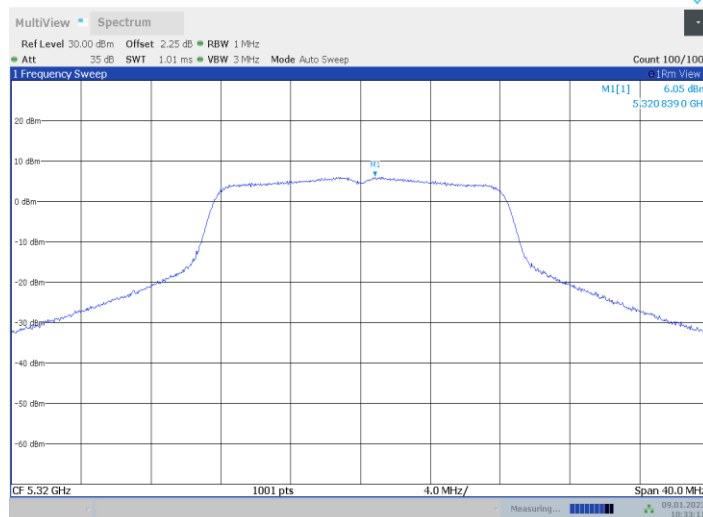
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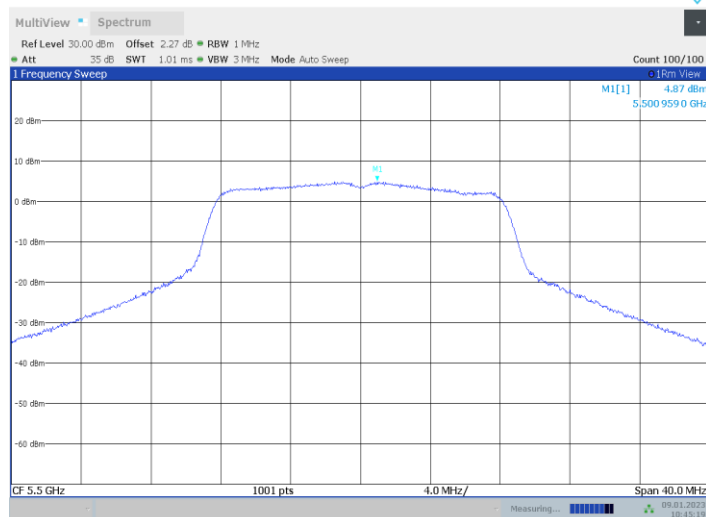
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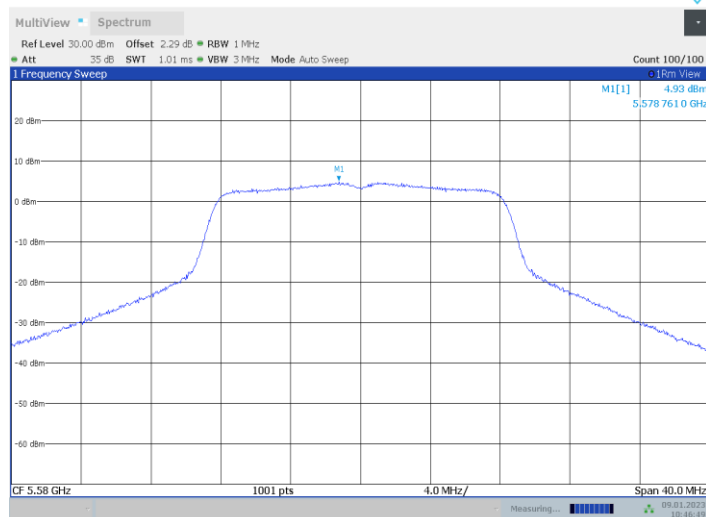
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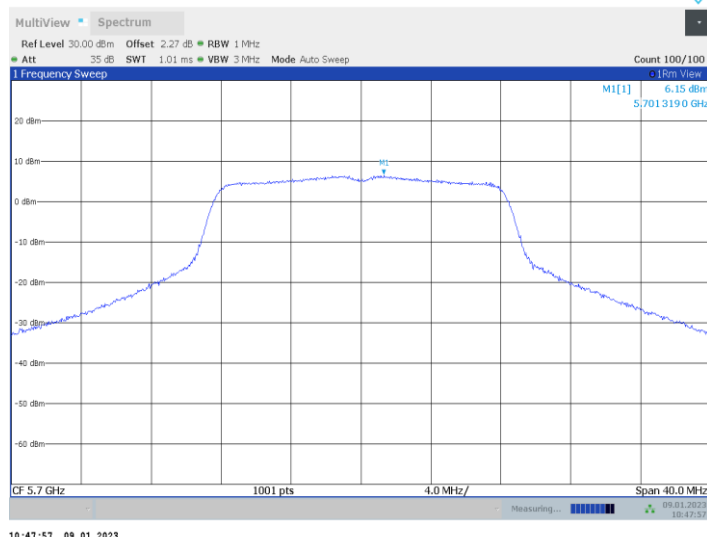
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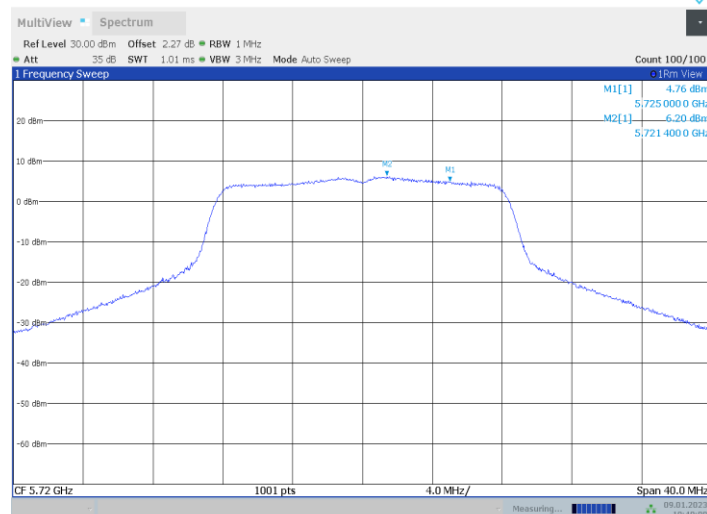
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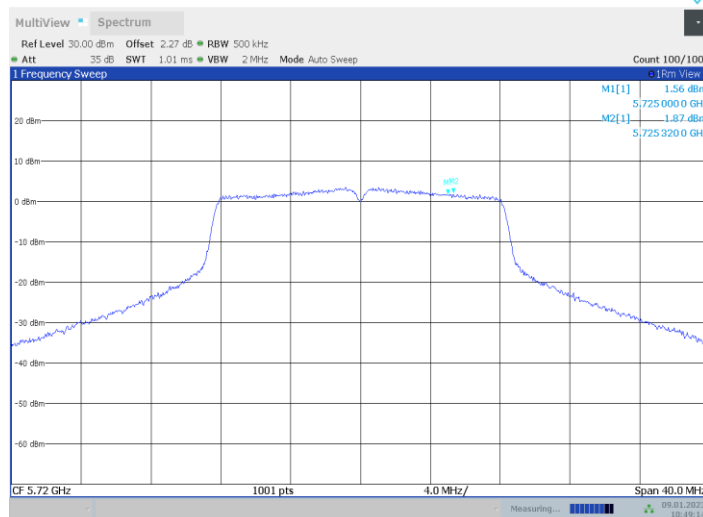
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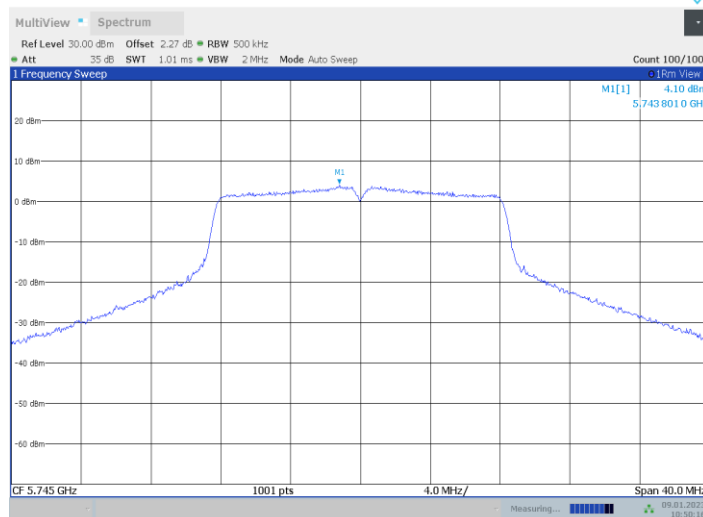
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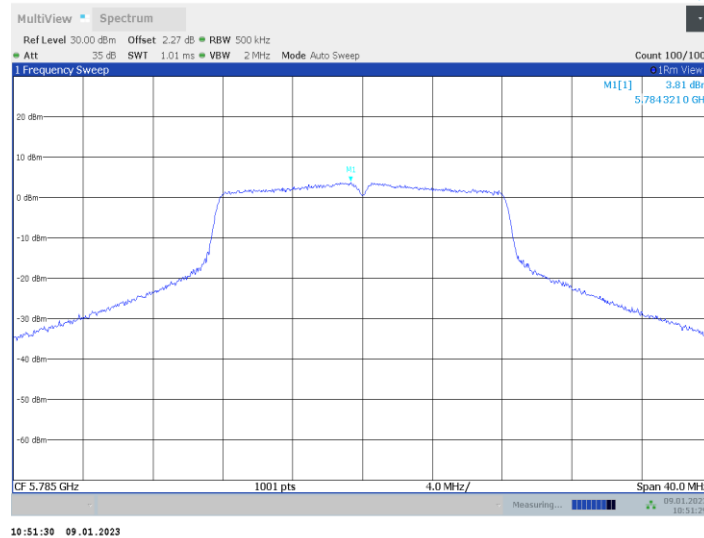
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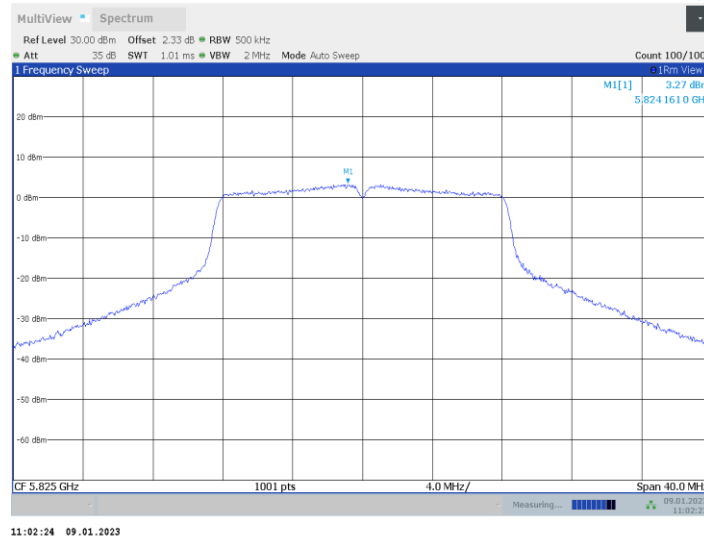
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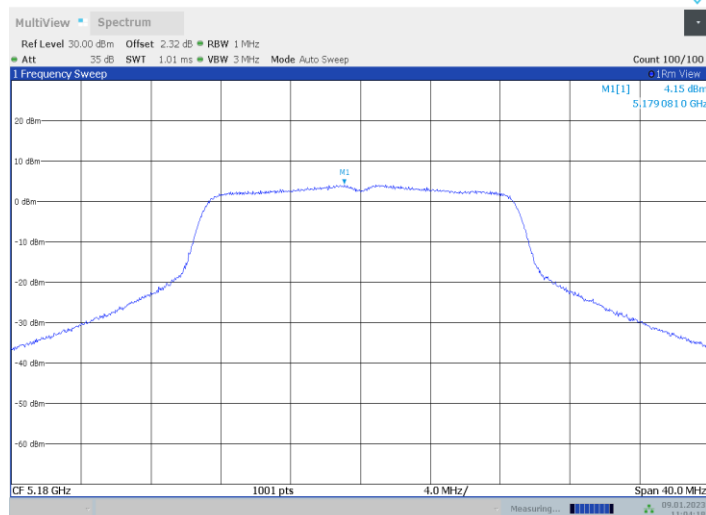
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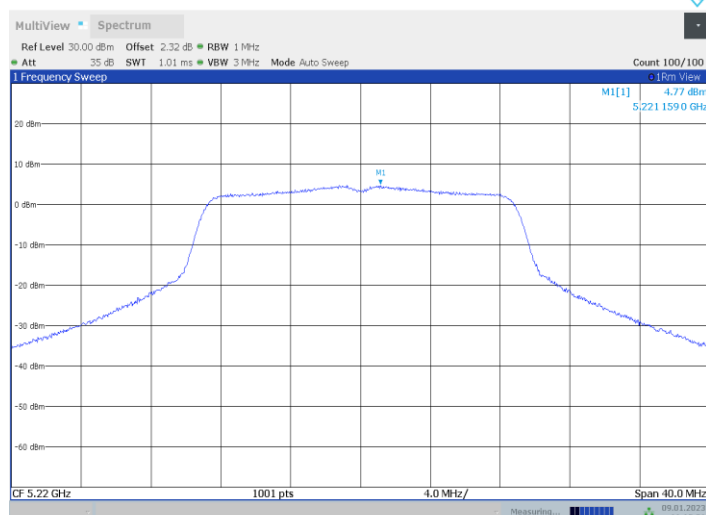
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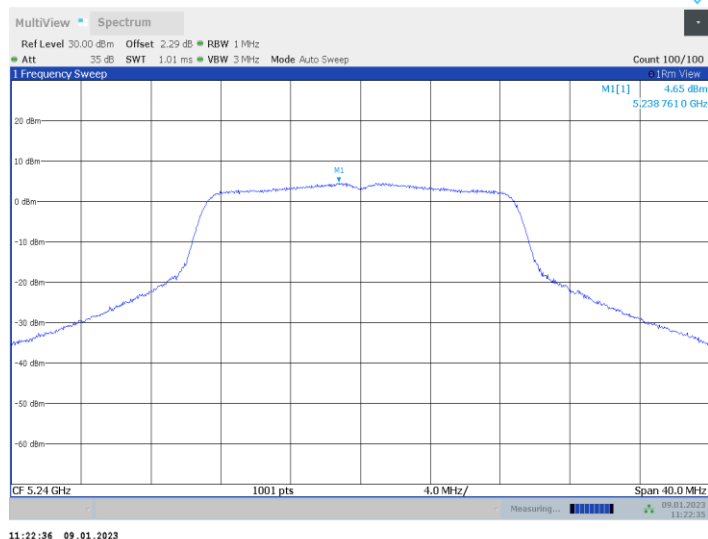
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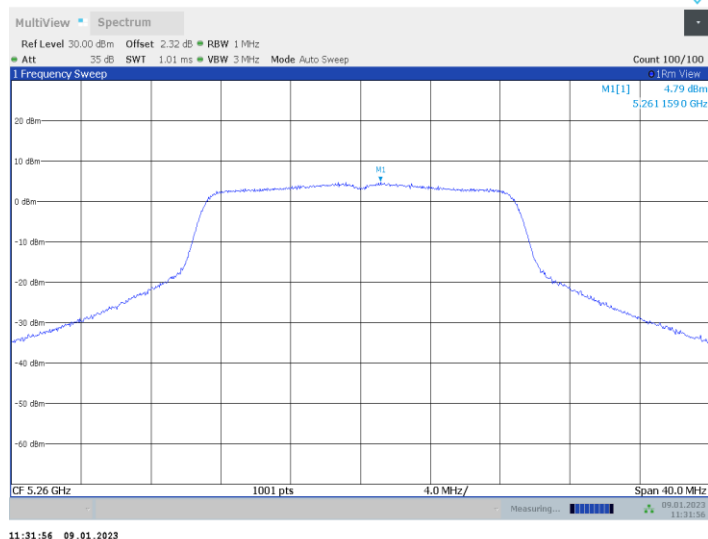
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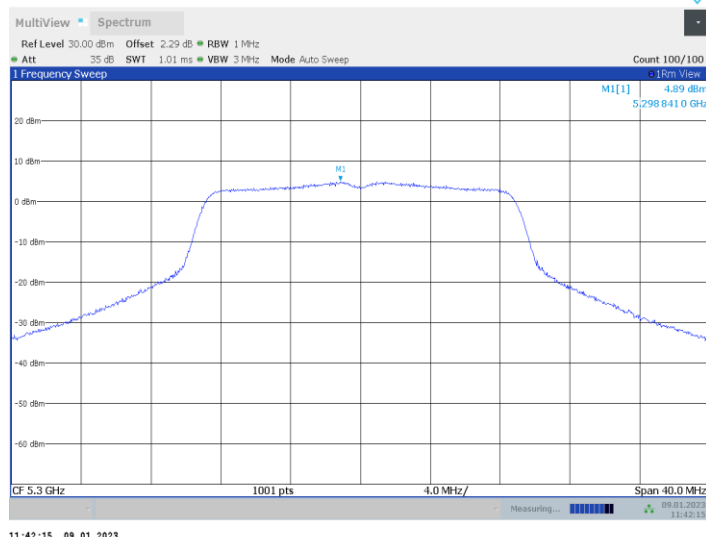
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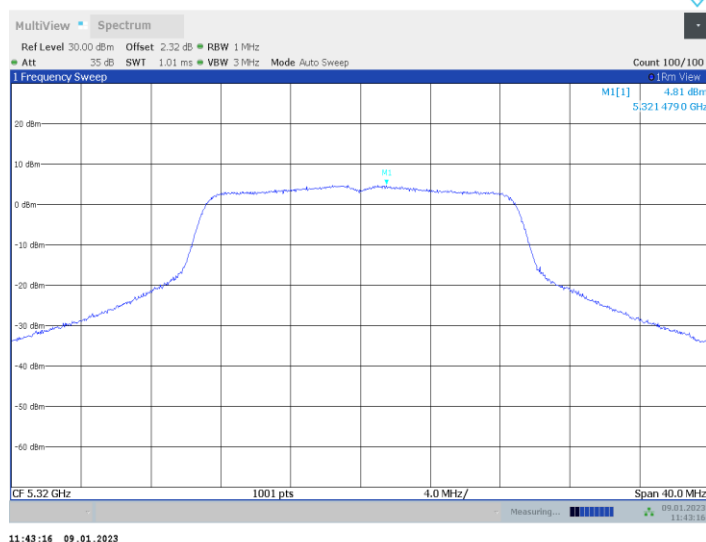
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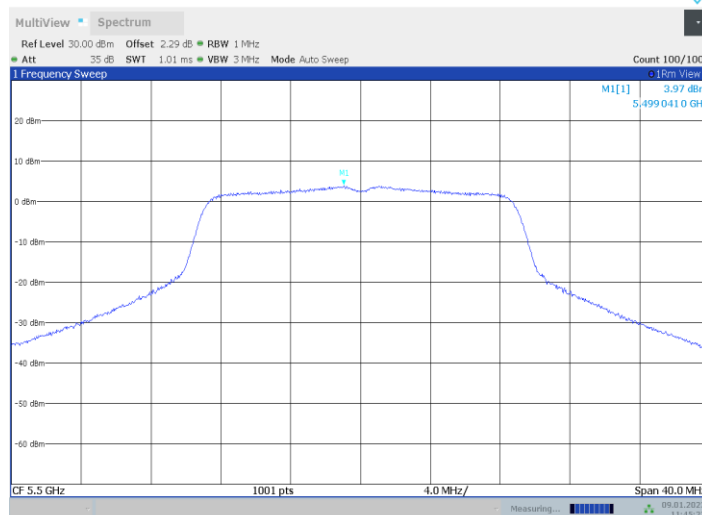
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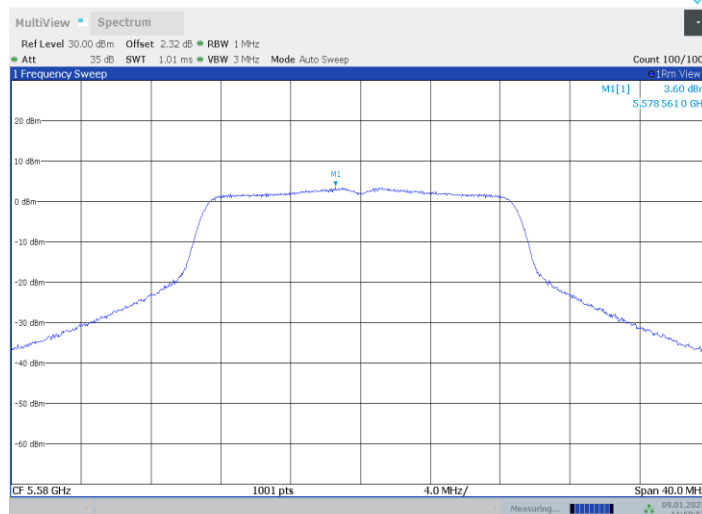
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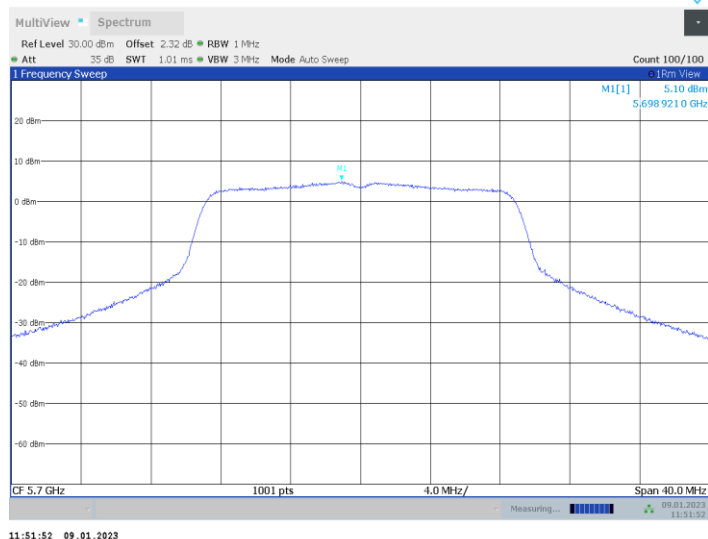
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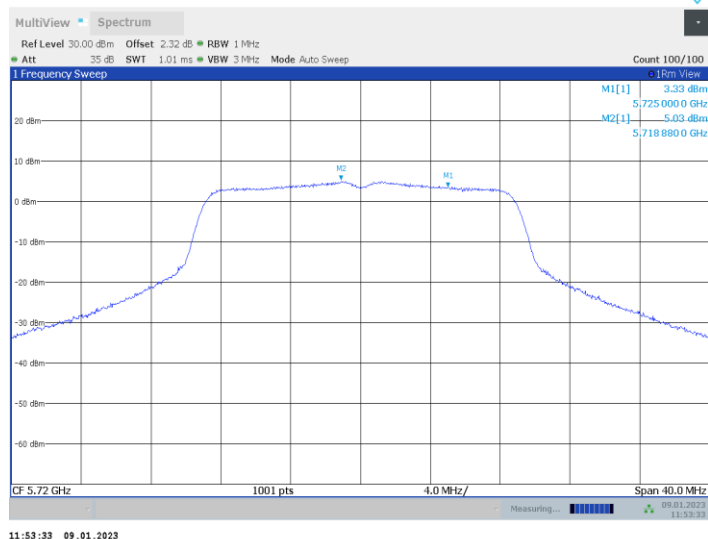
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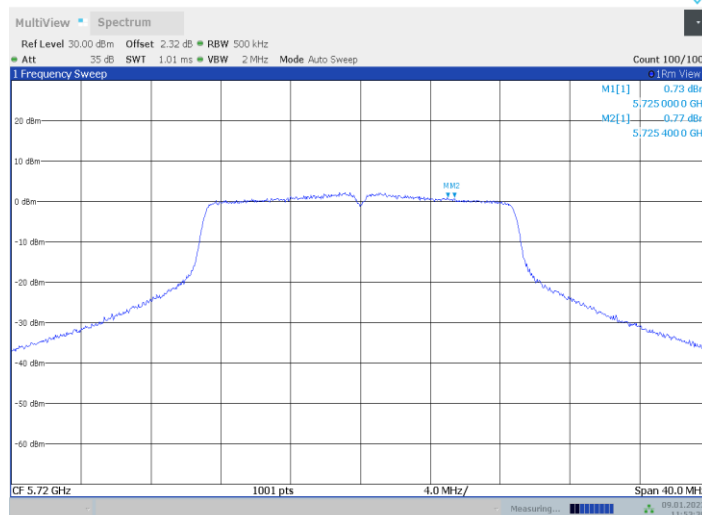
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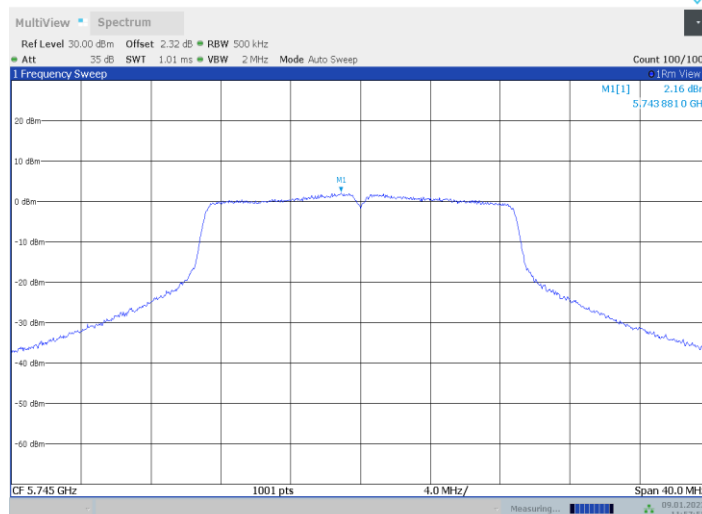
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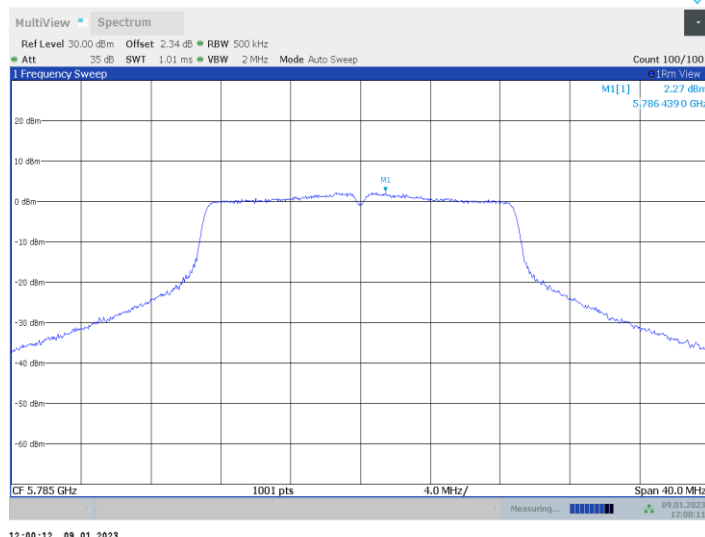
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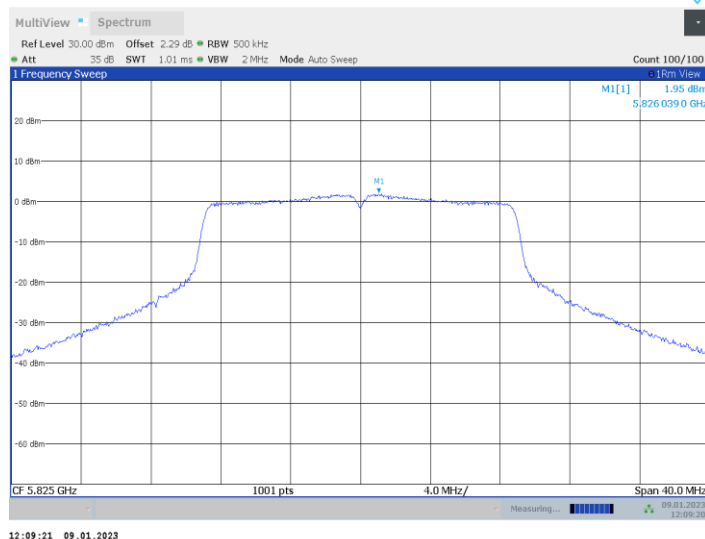
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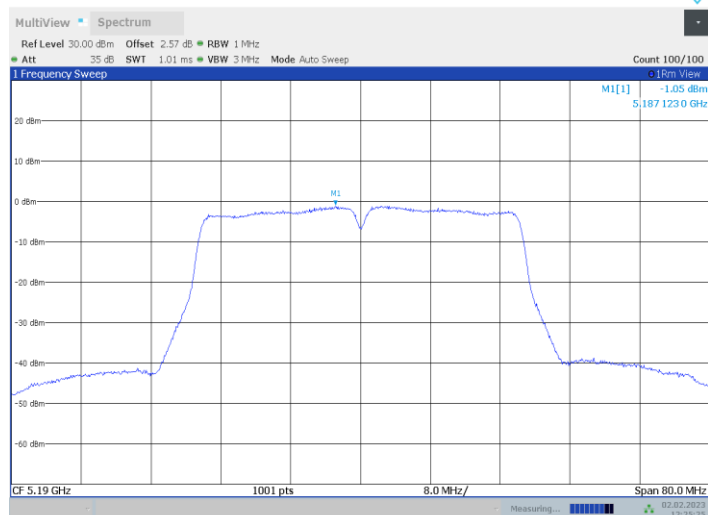
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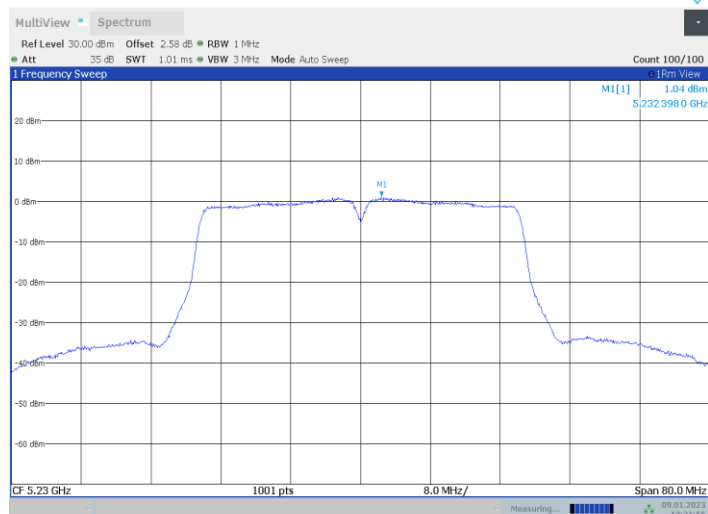
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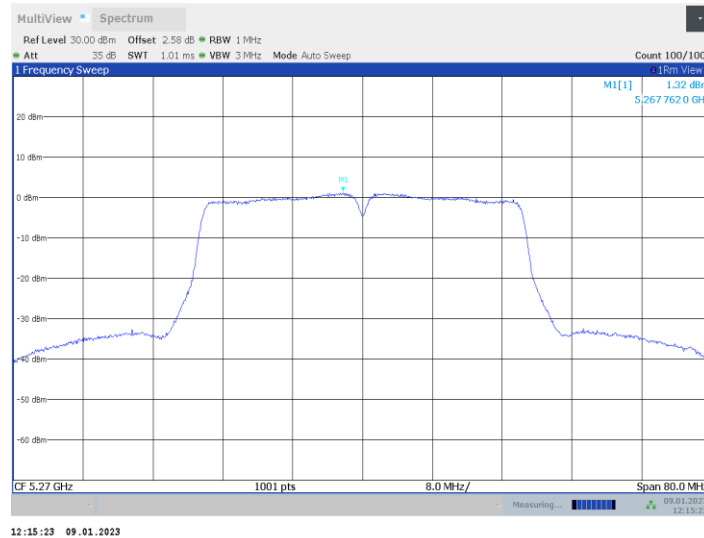
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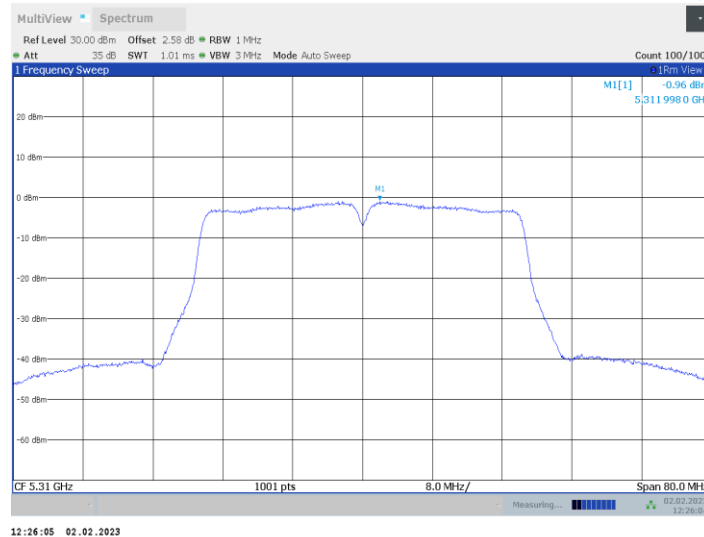
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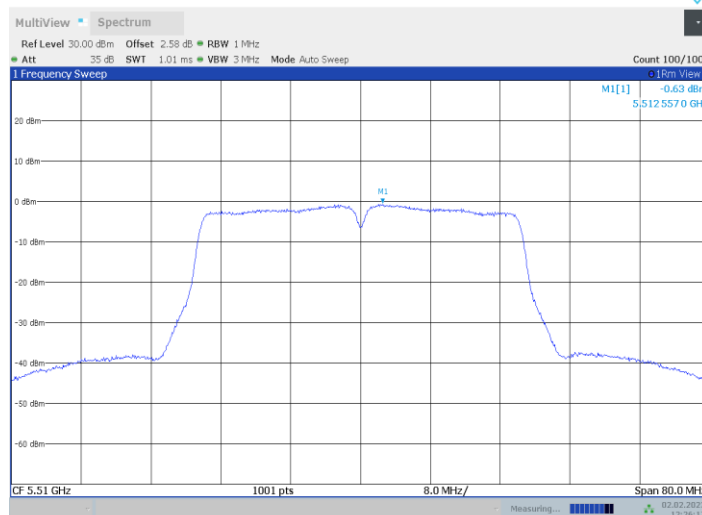
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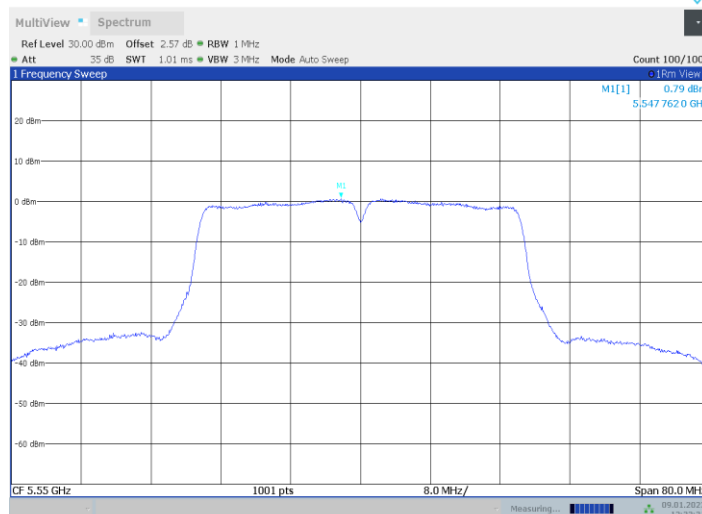
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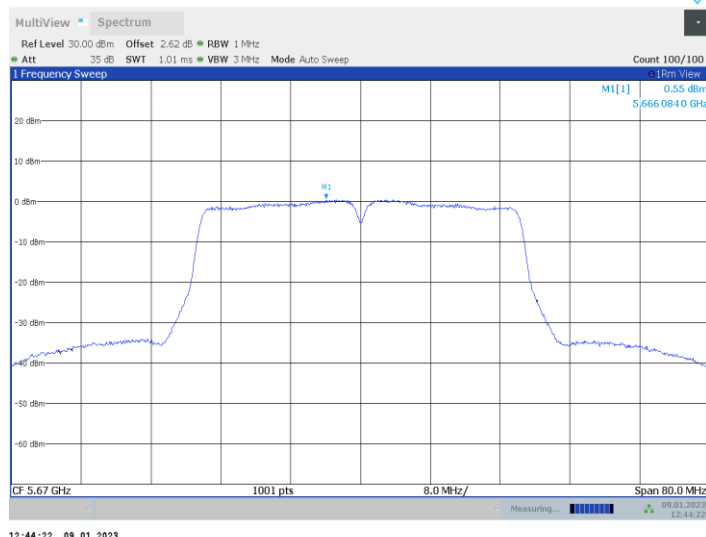
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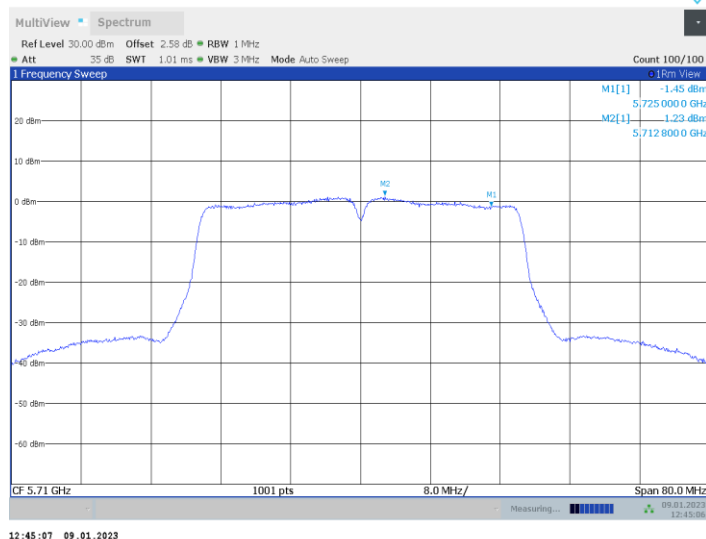
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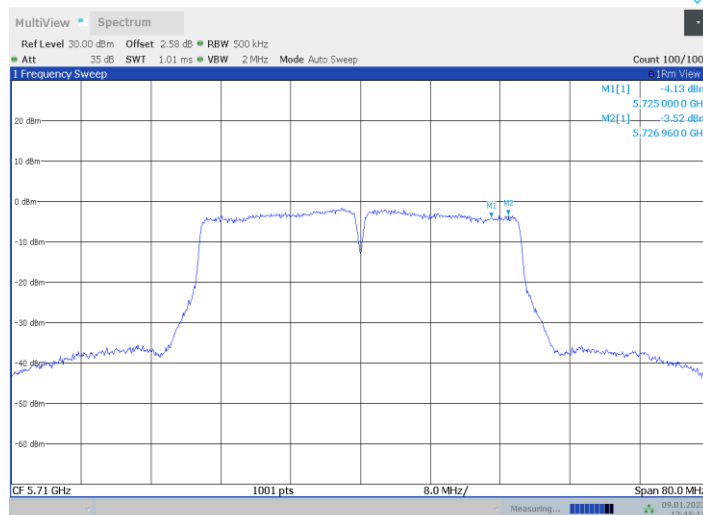
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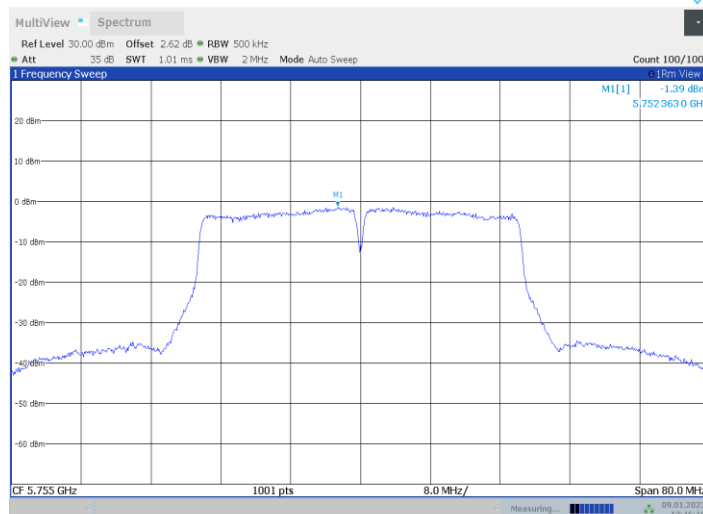
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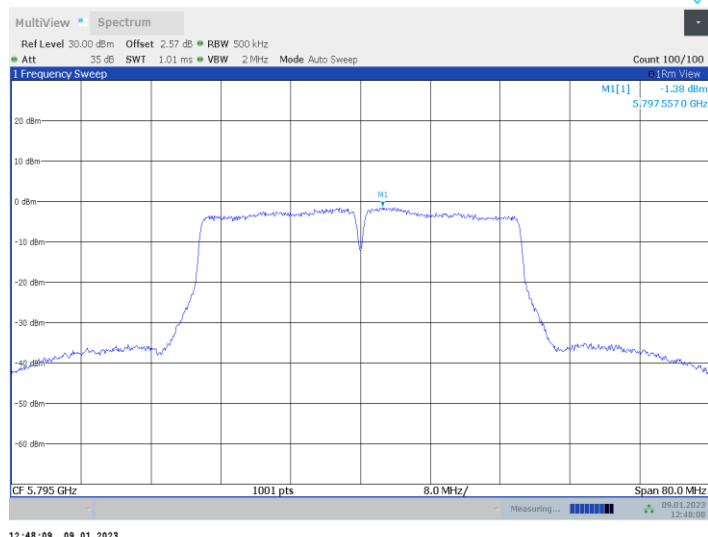
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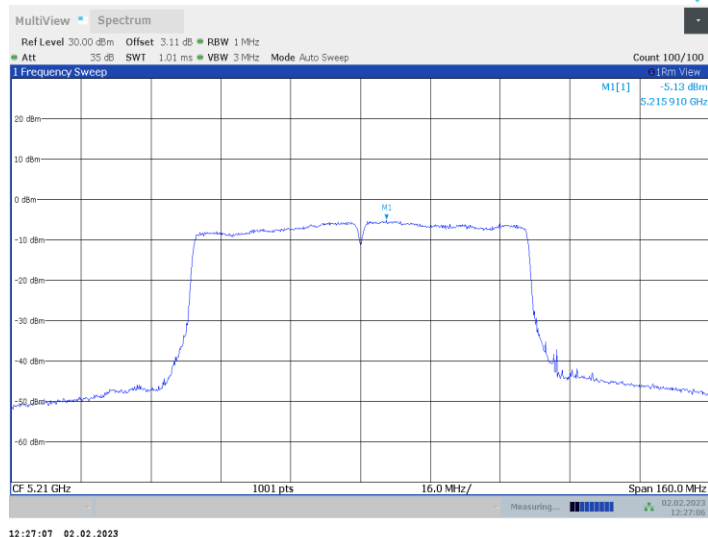
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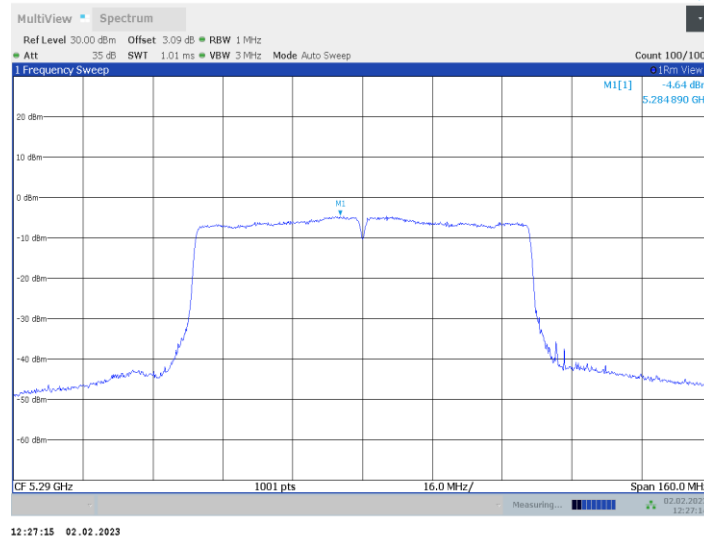
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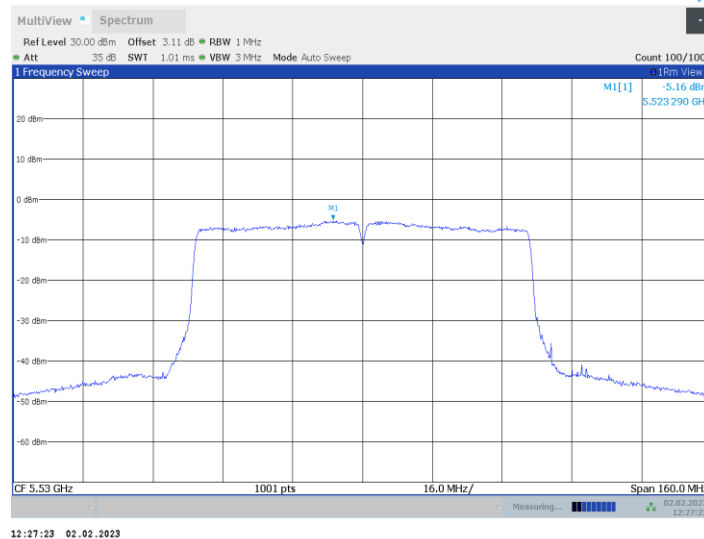
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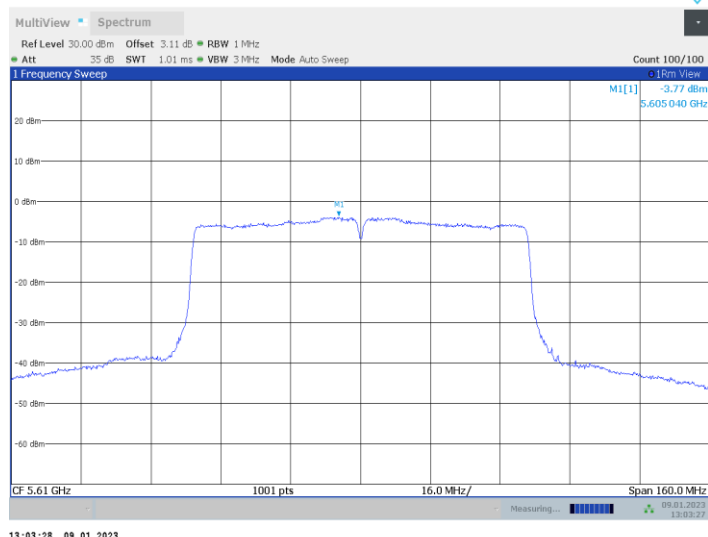
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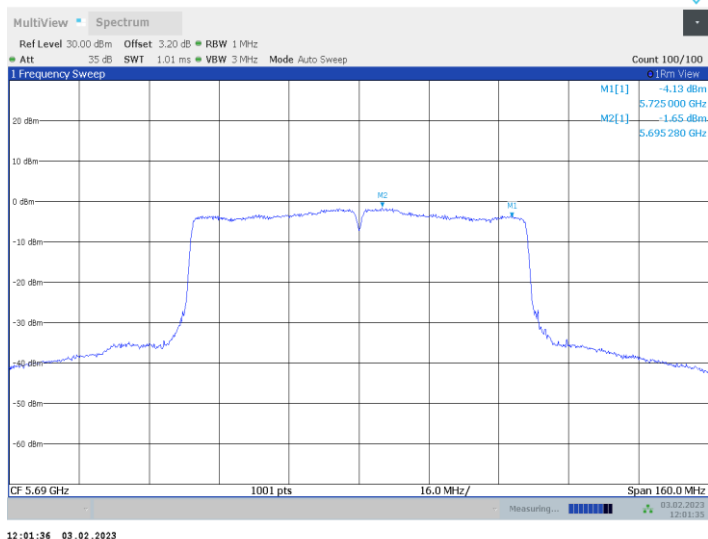
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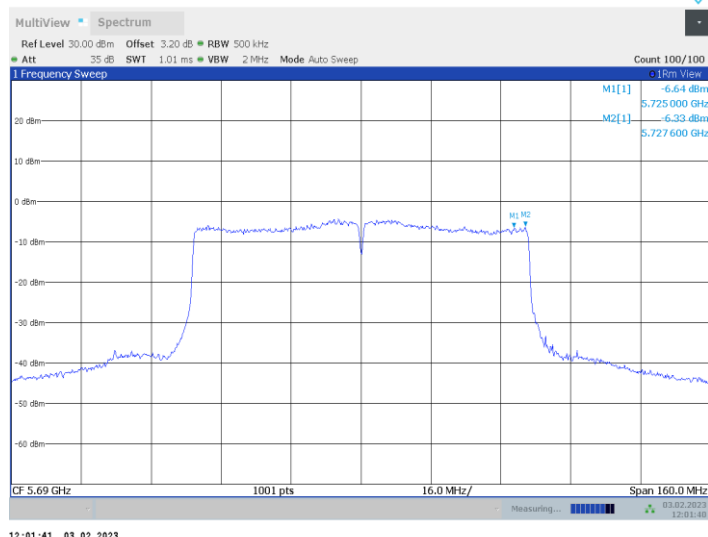
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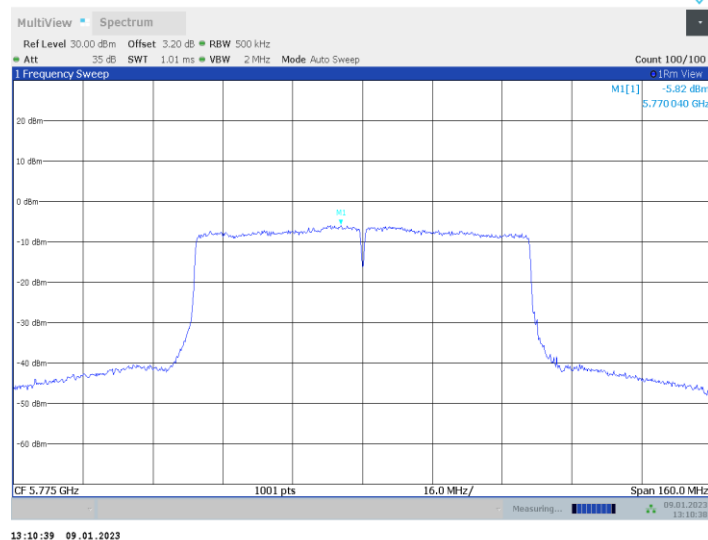
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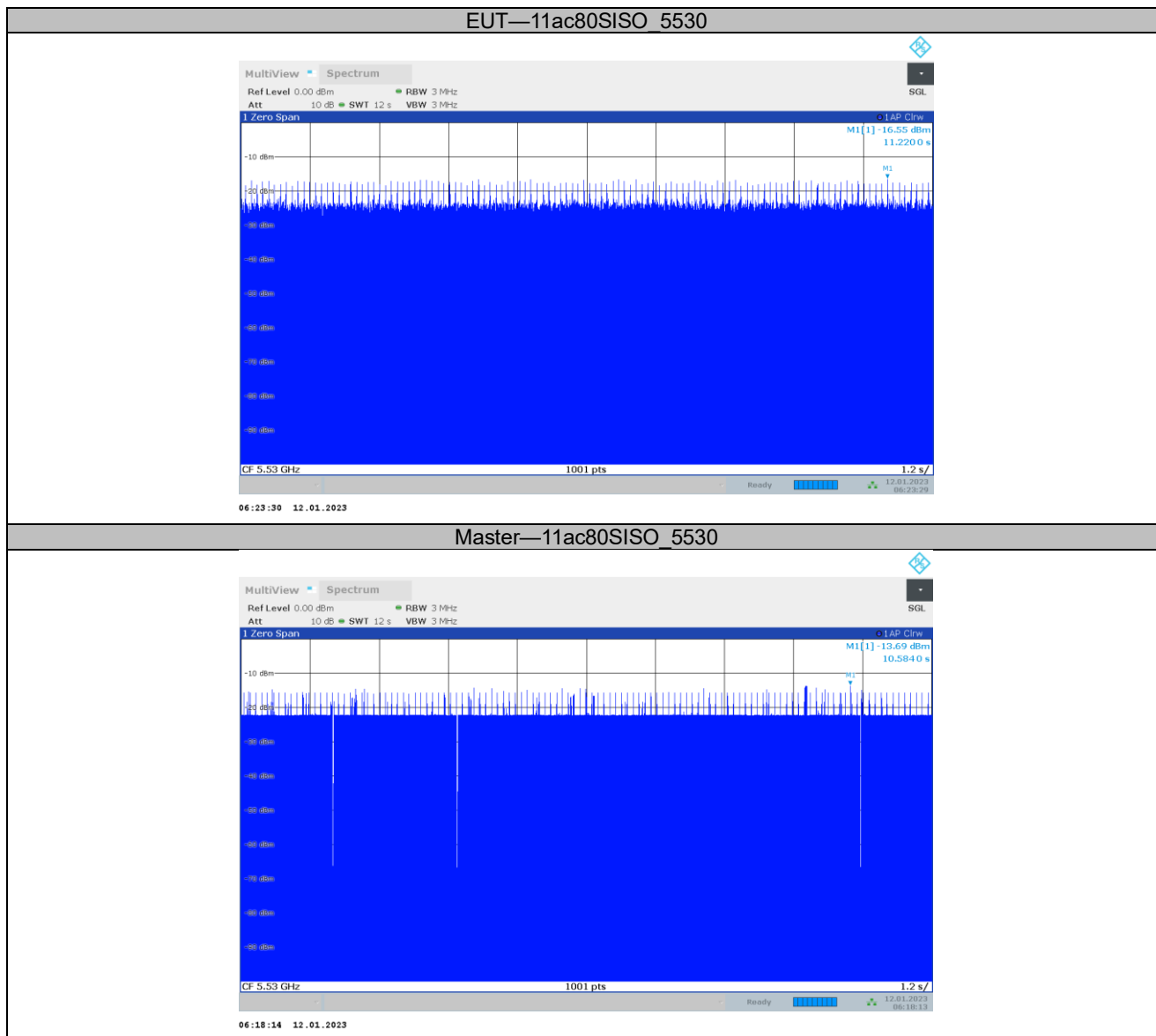
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Data Traffic Plot

Test Graphs



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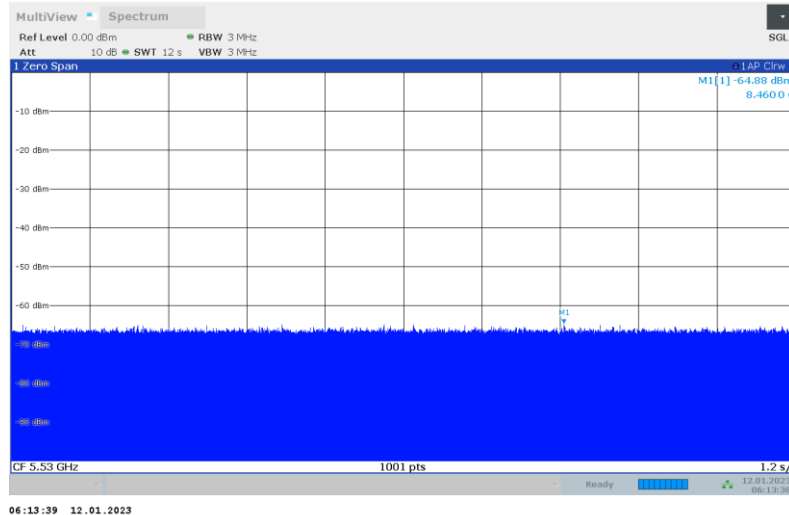
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Channel Move Time and Channel Closing Transmission Time Test Result

TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11ac80SISO	5530	200+13	200+60	826.5	10000	PASS



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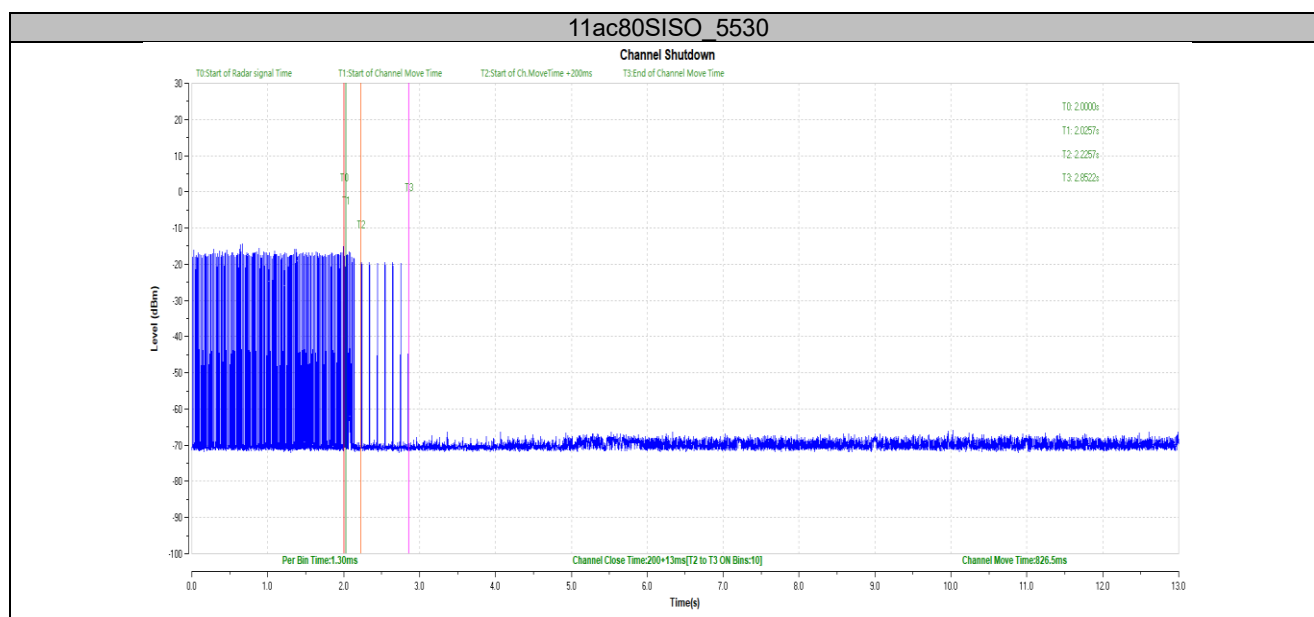
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Test Graphs



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Non-Occupancy Period

Test Result

TestMode	Frequency[MHz]	Result	Limit[s]	Verdict
11ac80SISO	5530	see test graph	≥1800	PASS



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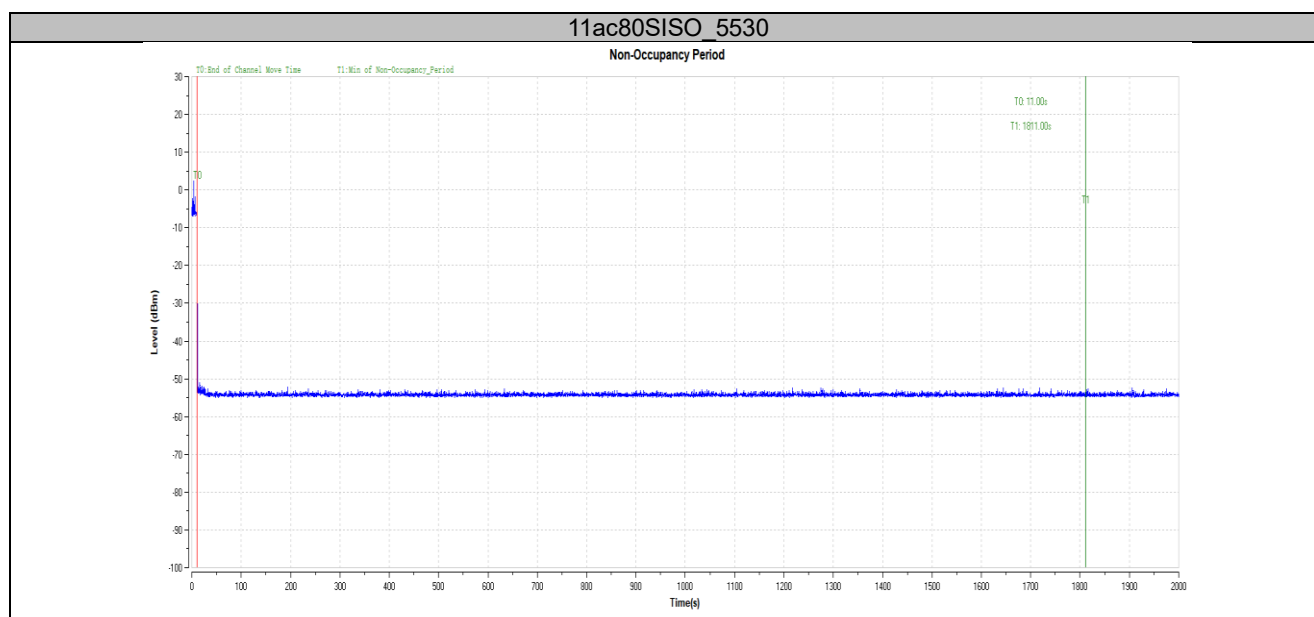
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Test Graphs



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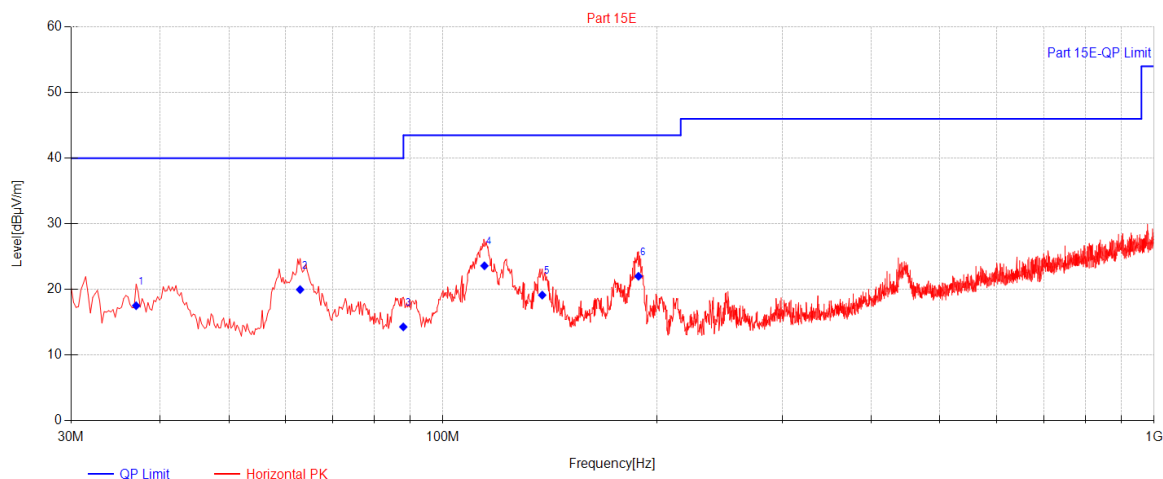
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11ac80_Channel 42



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.0325	40.23	-36.40	13.67	17.50	40.00	22.50	154	21	Horizontal
2	62.98	44.22	-36.44	12.17	19.96	40.00	20.04	236	144	Horizontal
3	87.9575	41.13	-36.27	9.41	14.27	40.00	25.73	125	319	Horizontal
4	114.39	48.12	-36.15	11.62	23.59	43.50	19.91	251	103	Horizontal
5	137.9125	41.33	-35.57	13.36	19.12	43.50	24.38	148	216	Horizontal
6	188.3525	44.69	-35.39	12.68	21.99	43.50	21.51	198	248	Horizontal



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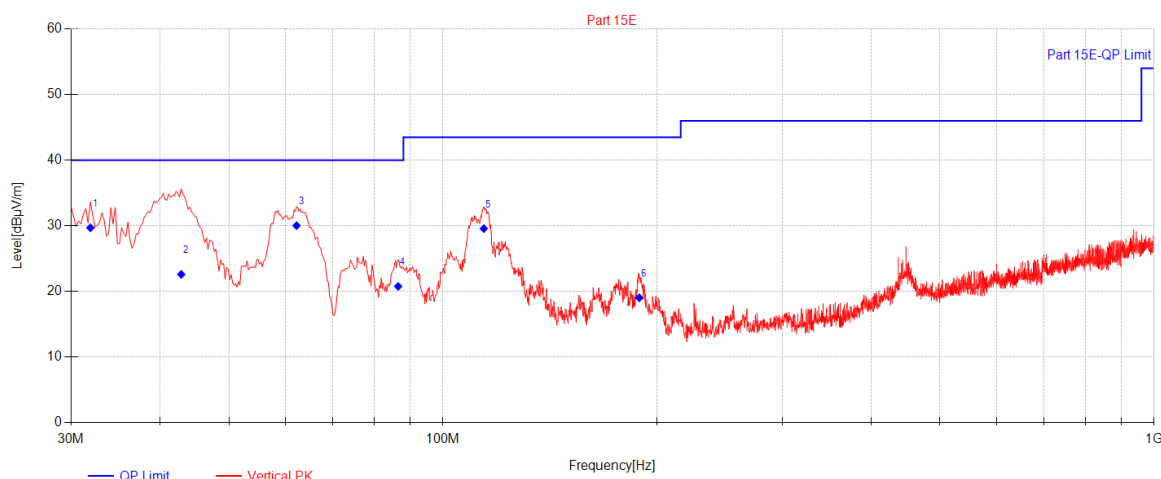
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Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.94	53.02	-36.62	13.29	29.69	40.00	10.31	165	360	Vertical
2	42.8525	44.98	-36.23	13.83	22.58	40.00	17.42	142	234	Vertical
3	62.2525	54.13	-36.43	12.32	30.02	40.00	9.98	255	275	Vertical
4	86.5025	47.52	-36.15	9.39	20.76	40.00	19.24	138	10	Vertical
5	114.1475	54.13	-36.15	11.59	29.57	43.50	13.93	199	122	Vertical
6	188.8375	41.85	-35.40	12.57	19.02	43.50	24.48	217	173	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Value(dBμV/m)

- 2) All channels have been tested, but only the worst case data displayed in this report.



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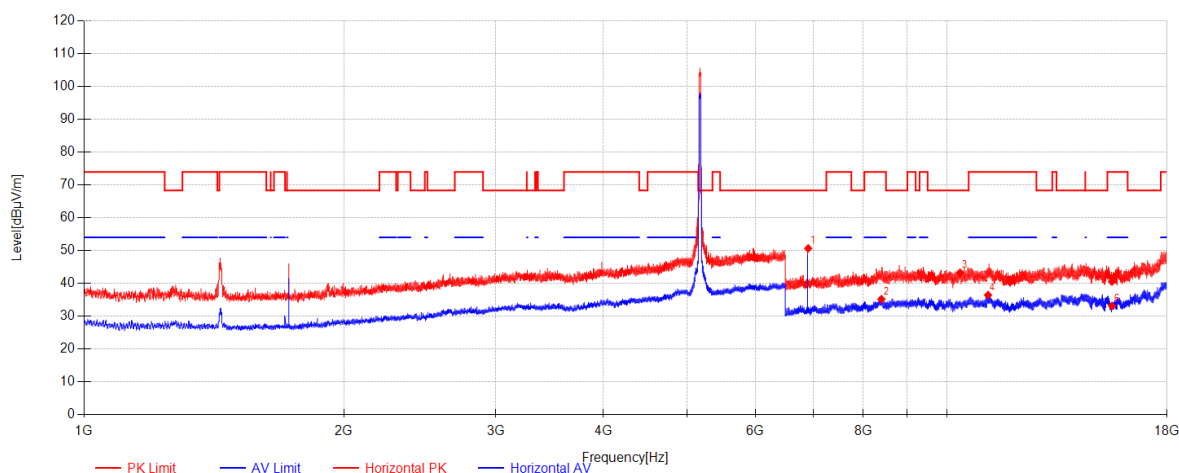
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Transmitter emission Above 1GHz

802.11a_Channel 36



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.8125	58.53	35.97	-43.84	50.66	68.30	17.64	184	91	Horizontal
2	8397.5	39.21	37.33	-41.38	35.15	54.00	18.85	175	356	Horizontal
3	10360.0000	43.19	38.85	-38.82	43.22	68.30	25.08	142	12	Horizontal
4	11162.2917	34.34	39.10	-37.03	36.41	54.00	17.59	166	356	Horizontal
5	15540.0000	36.86	38.52	-34.81	40.57	74.00	33.43	192	133	Horizontal
6	15540.0000	29.40	38.52	-34.81	33.11	54.00	20.89	185	261	Horizontal



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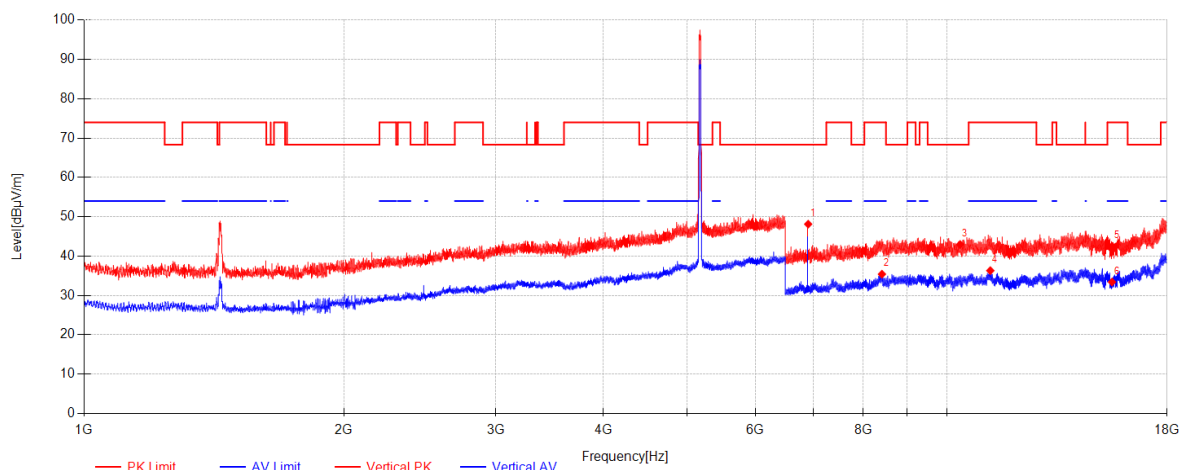
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802.11a_Channel 36



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.8125	55.99	35.97	-43.84	48.12	68.30	20.18	125	312	Vertical
2	8409.4792	39.47	37.35	-41.41	35.41	54.00	18.59	148	115	Vertical
3	10360.0000	42.93	38.85	-38.82	42.96	68.30	25.34	185	115	Vertical
4	11230.3333	33.99	39.11	-36.79	36.31	54.00	17.69	163	0	Vertical
5	15540.0000	38.76	38.52	-34.81	42.47	74.00	31.53	256	287	Vertical
6	15540.0000	29.70	38.52	-34.81	33.41	54.00	20.59	291	336	Vertical



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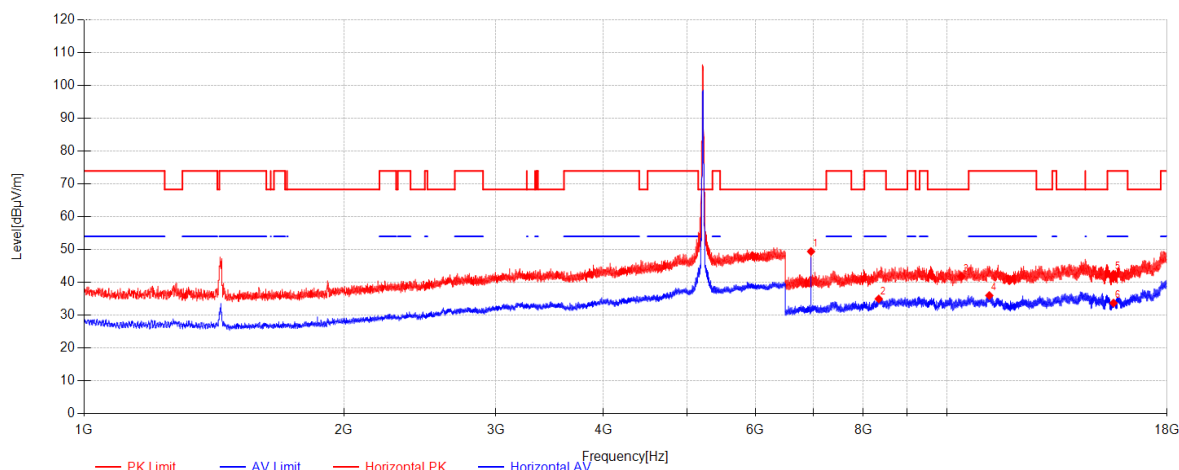
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802.11a_Channel 44



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6960	56.72	36.03	-43.35	49.40	68.30	18.90	125	90	Horizontal
2	8339.0417	39.36	37.25	-41.67	34.94	54.00	19.06	148	40	Horizontal
3	10400.0000	41.67	38.86	-38.72	41.81	68.30	26.49	174	357	Horizontal
4	11200.625	33.47	39.11	-36.60	35.98	54.00	18.02	153	287	Horizontal
5	15600.0000	38.44	38.44	-34.37	42.51	74.00	31.49	261	188	Horizontal
6	15600.0000	29.61	38.44	-34.37	33.68	54.00	20.32	211	5	Horizontal



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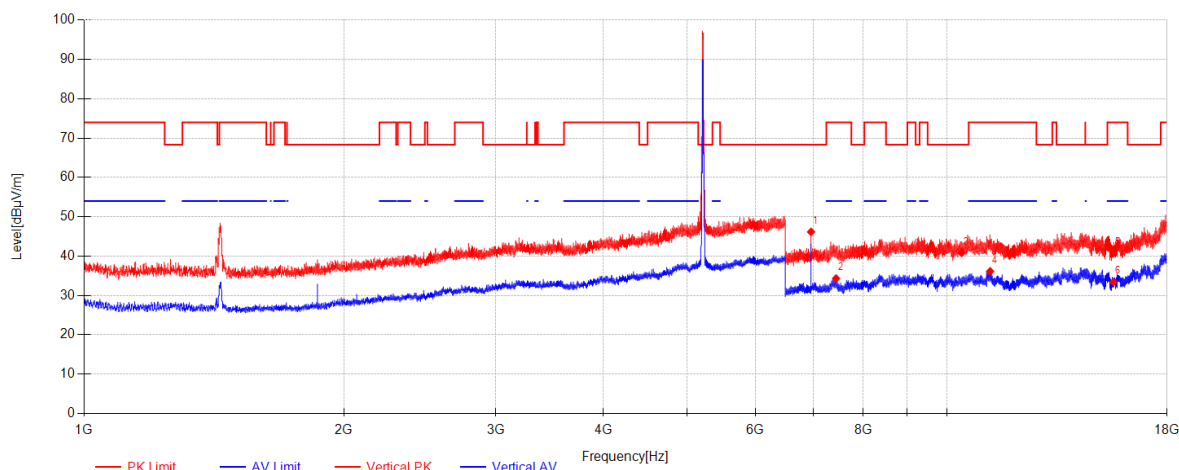
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802.11a_Channel 44



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6960	53.47	36.03	-43.35	46.15	68.30	22.15	145	313	Vertical
2	7440.6042	40.78	36.47	-42.94	34.31	54.00	19.69	174	166	Vertical
3	10400.0000	40.67	38.86	-38.72	40.81	68.30	27.49	156	0	Vertical
4	11224.1042	33.77	39.11	-36.75	36.13	54.00	17.87	263	263	Vertical
5	15600.0000	36.71	38.44	-34.37	40.78	74.00	33.22	261	239	Vertical
6	15600.0000	29.36	38.44	-34.37	33.43	54.00	20.57	145	214	Vertical



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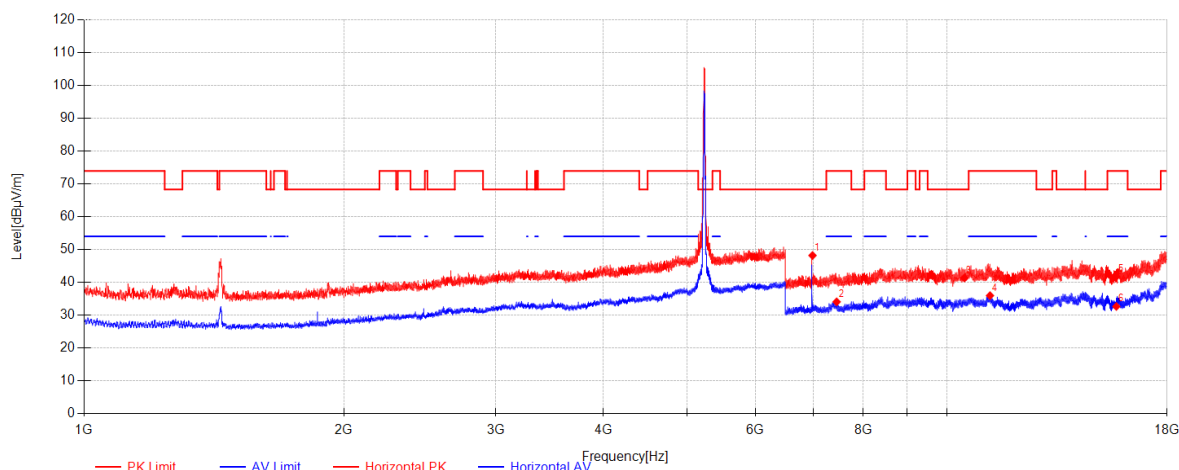
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802.11a_Channel 48



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.8333	55.24	36.06	-43.11	48.19	68.30	20.11	248	91	Horizontal
2	7452.1042	40.57	36.46	-42.99	34.05	54.00	19.95	166	262	Horizontal
3	10480.0000	41.14	38.94	-38.75	41.33	68.30	26.97	259	188	Horizontal
4	11220.75	33.57	39.11	-36.73	35.95	54.00	18.05	191	0	Horizontal
5	15720.0000	36.66	38.30	-33.22	41.74	74.00	32.26	174	43	Horizontal
6	15720.0000	27.56	38.30	-33.22	32.64	54.00	21.36	153	140	Horizontal



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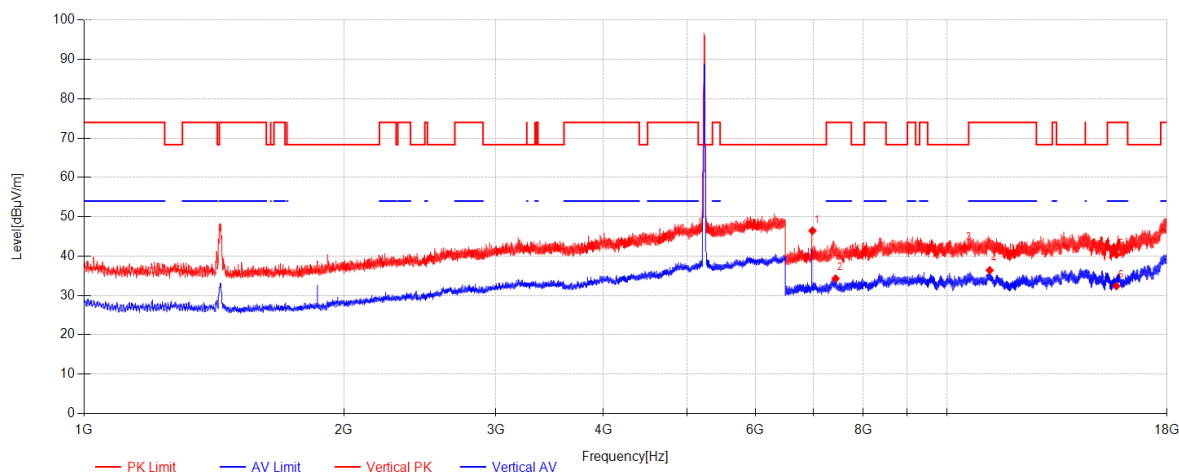
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802.11a_Channel 48



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.8333	53.50	36.06	-43.11	46.45	68.30	21.85	175	311	Vertical
2	7431.0208	40.71	36.47	-42.91	34.28	54.00	19.72	142	90	Vertical
3	10480.0000	41.91	38.94	-38.75	42.10	68.30	26.20	166	1	Vertical
4	11212.125	33.98	39.11	-36.68	36.41	54.00	17.59	291	237	Vertical
5	15720.0000	35.31	38.30	-33.22	40.39	74.00	33.61	153	152	Vertical
6	15720.0000	27.31	38.30	-33.22	32.39	54.00	21.61	281	144	Vertical



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