

Appendix E of data

1.Radiated Spurious Emission and Restricted Band

For 9 kHz ~ 30 MHz

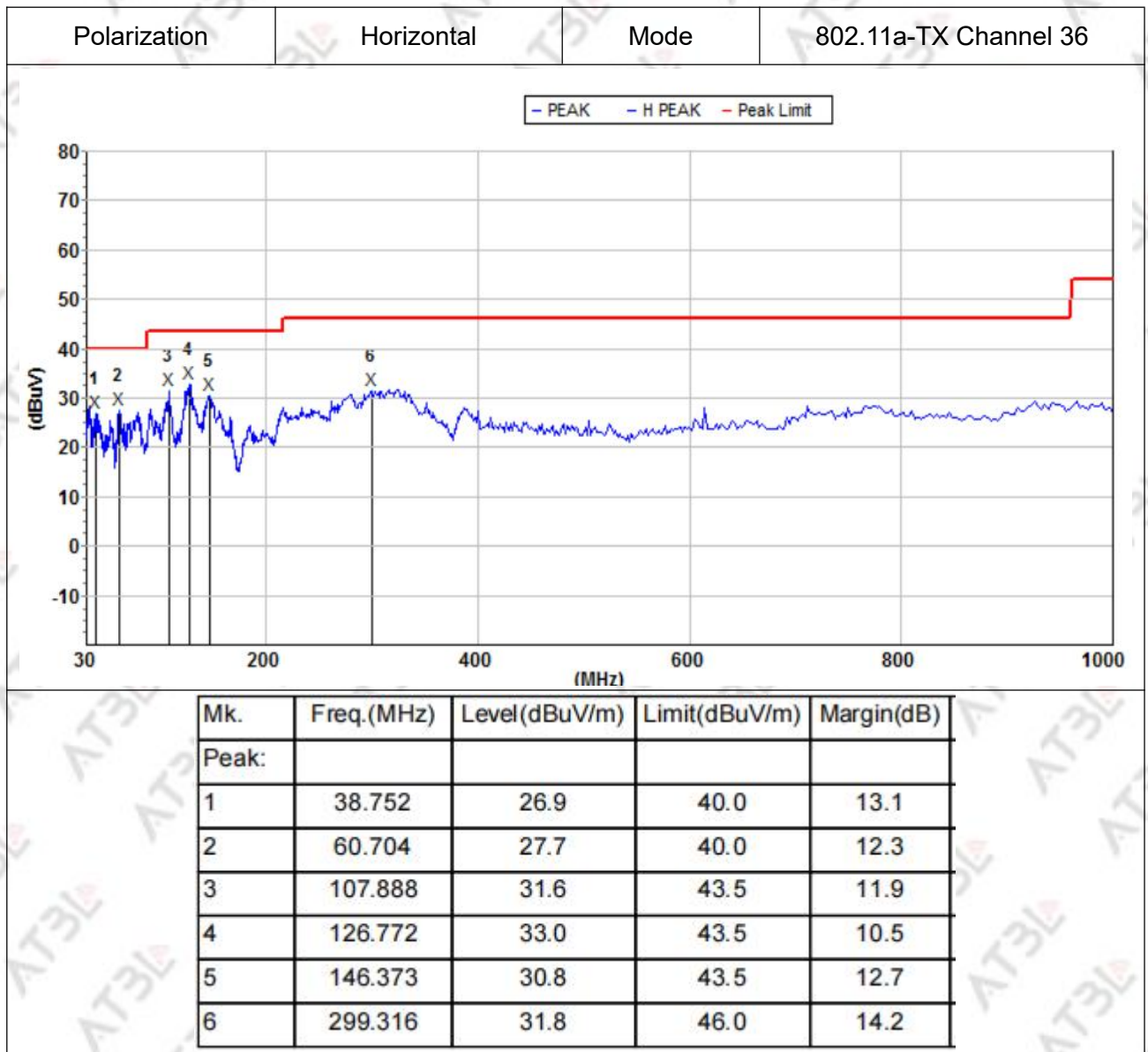
Note:

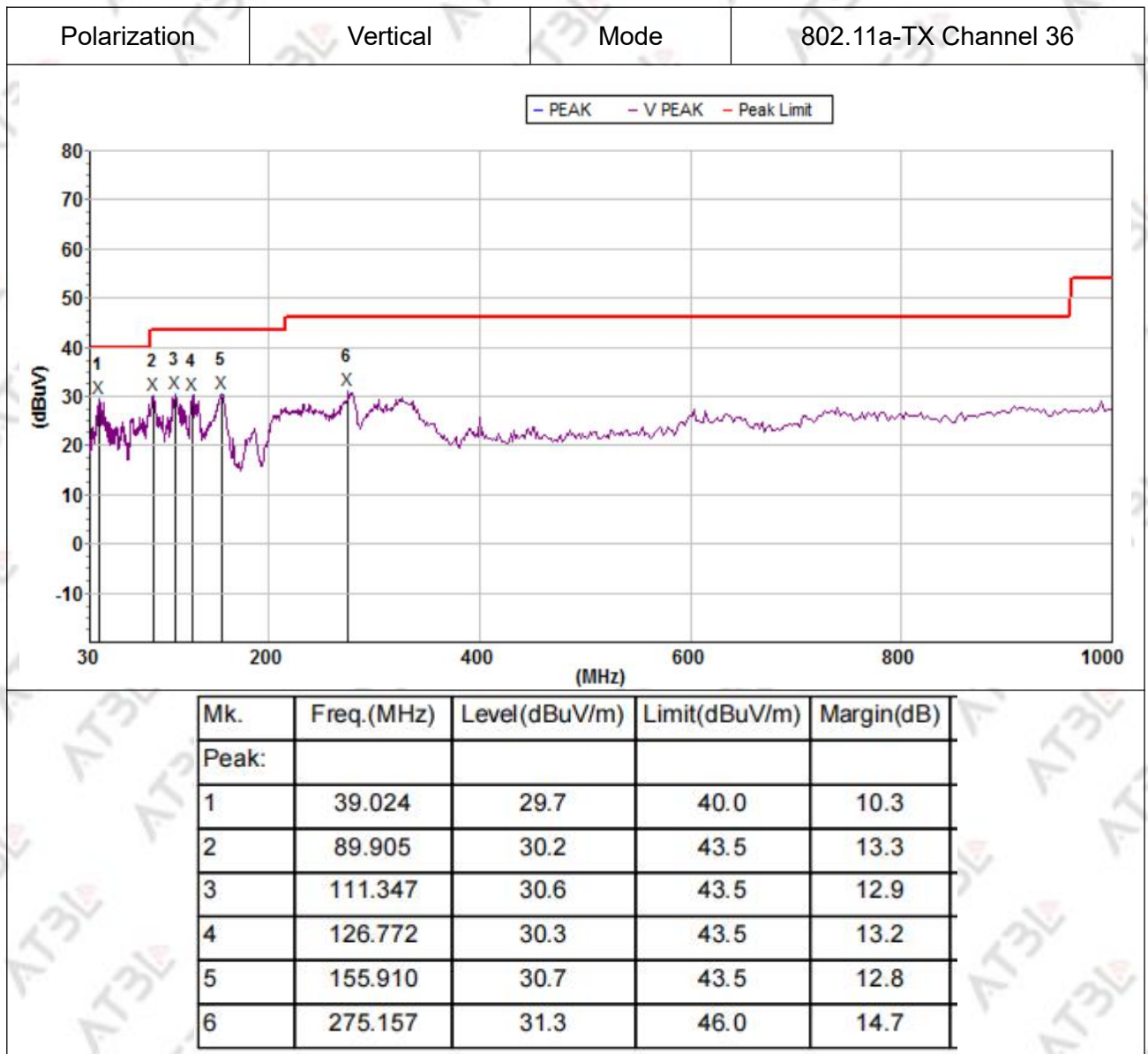
- 1.The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
- 2.The all data rate modes had been test, but only worse test data was recorded in the test report.

Below 1GHz:

Note:

- 1.All modes have been tested, only worst (802.11a-TX Channel 36)mode was recorded in the test report.
- 2.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
- 3.Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)-Amplifier Gain.
- 4.The emission levels of other frequencies were less than 20dB margin against the limit.
- 5.Margin value = Emission level-Limit value.



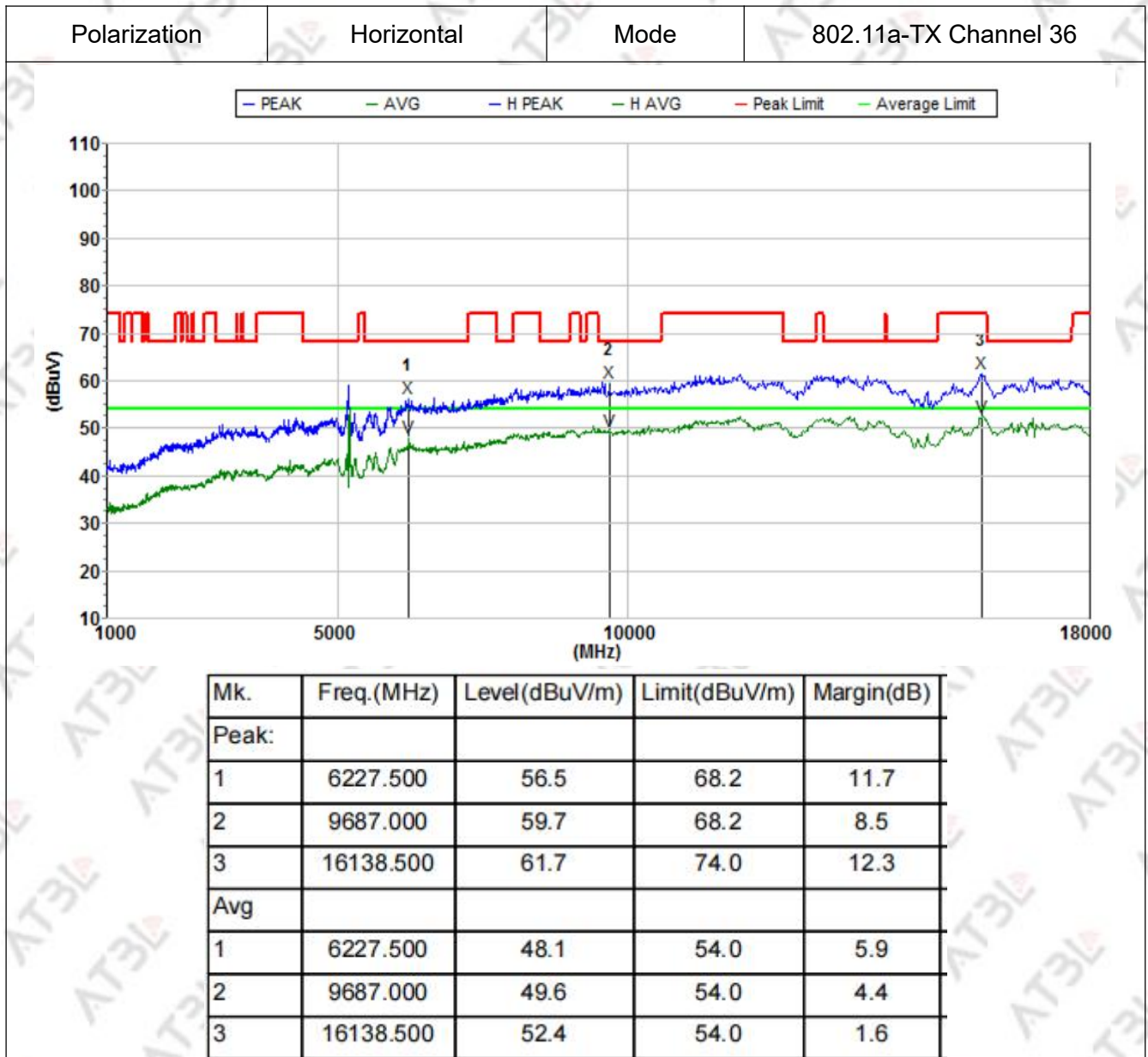


Above 1GHz:

Note:

- 1.All the modes have been tested. The report only records the worst data, performance in the 802.11a mode.
- 2.In frequency ranges 18 ~40GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.
- 3.We used the filter to test and the main frequency was filtered out.
- 4.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
5. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)-Amplifier Gain.
6. Margin value = Emission level-Limit value.

For U-NII-1:

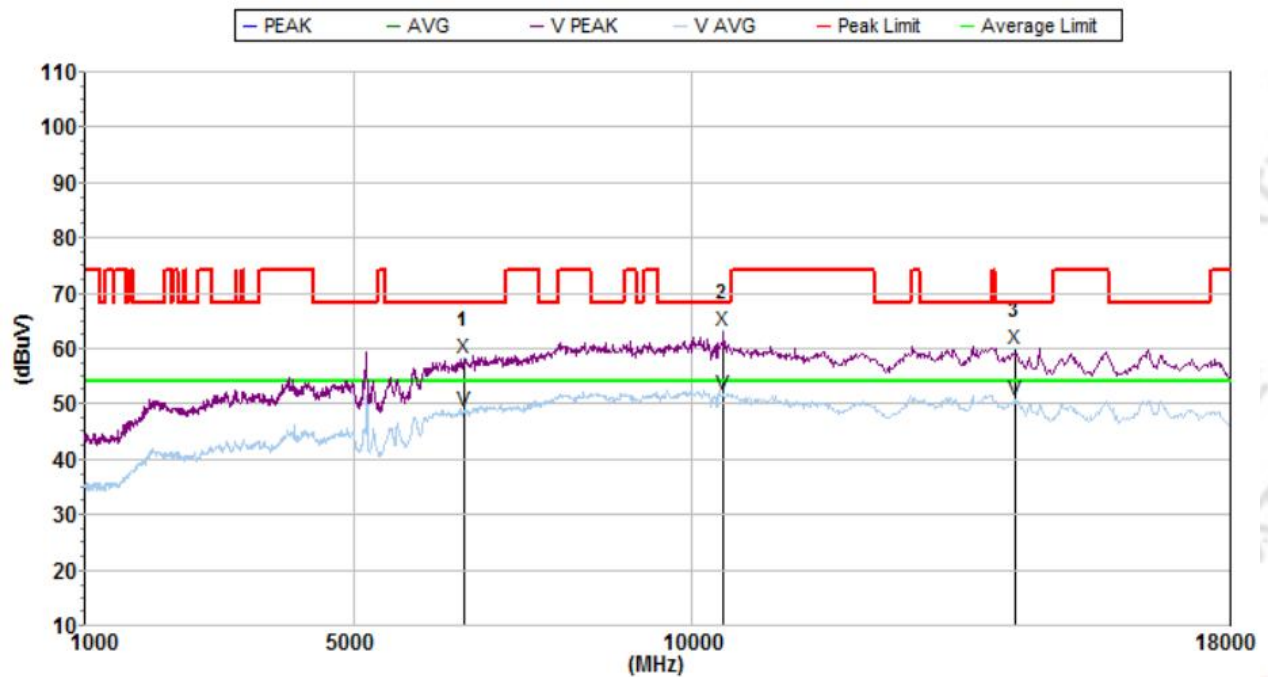


Polarization

Vertical

Mode

802.11a-TX Channel 36



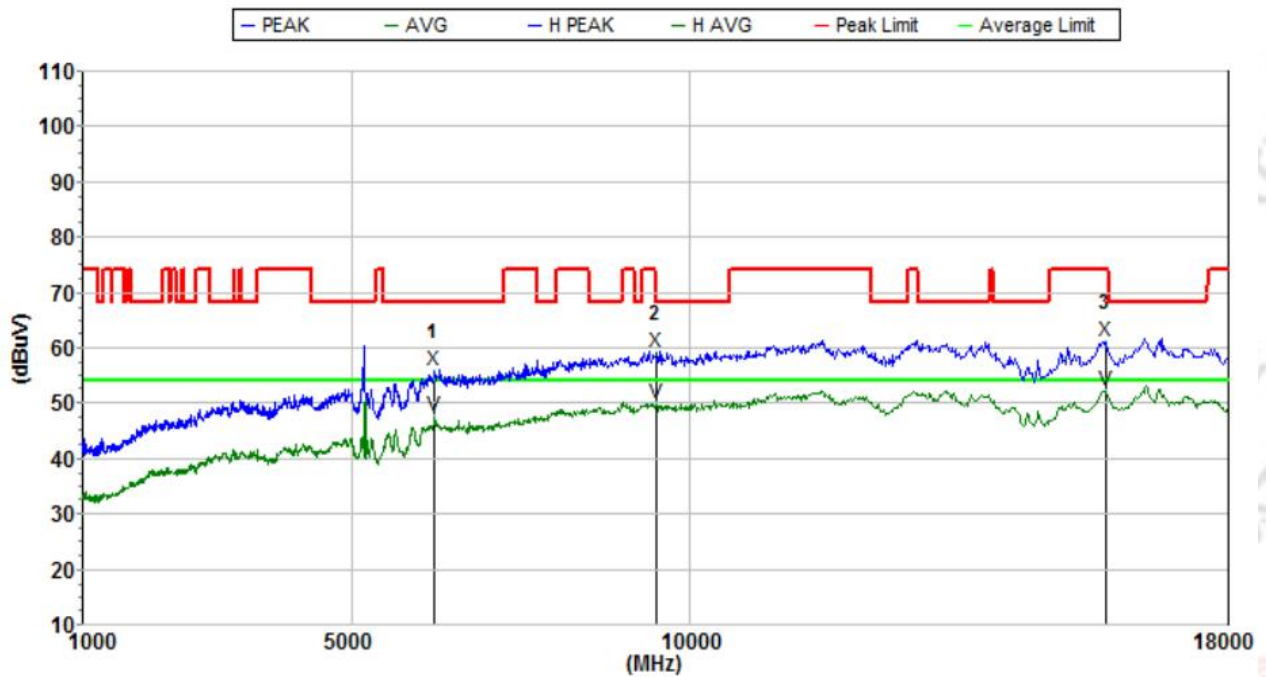
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6644.000	58.5	68.2	9.7
2	10486.000	63.4	68.2	4.8
3	14795.500	60.0	68.2	8.2
Avg				
1	6644.000	48.7	54.0	5.3
2	10486.000	51.8	54.0	2.2
3	14795.500	50.9	54.0	3.1

Polarization

Horizontal

Mode

802.11a-TX Channel 40



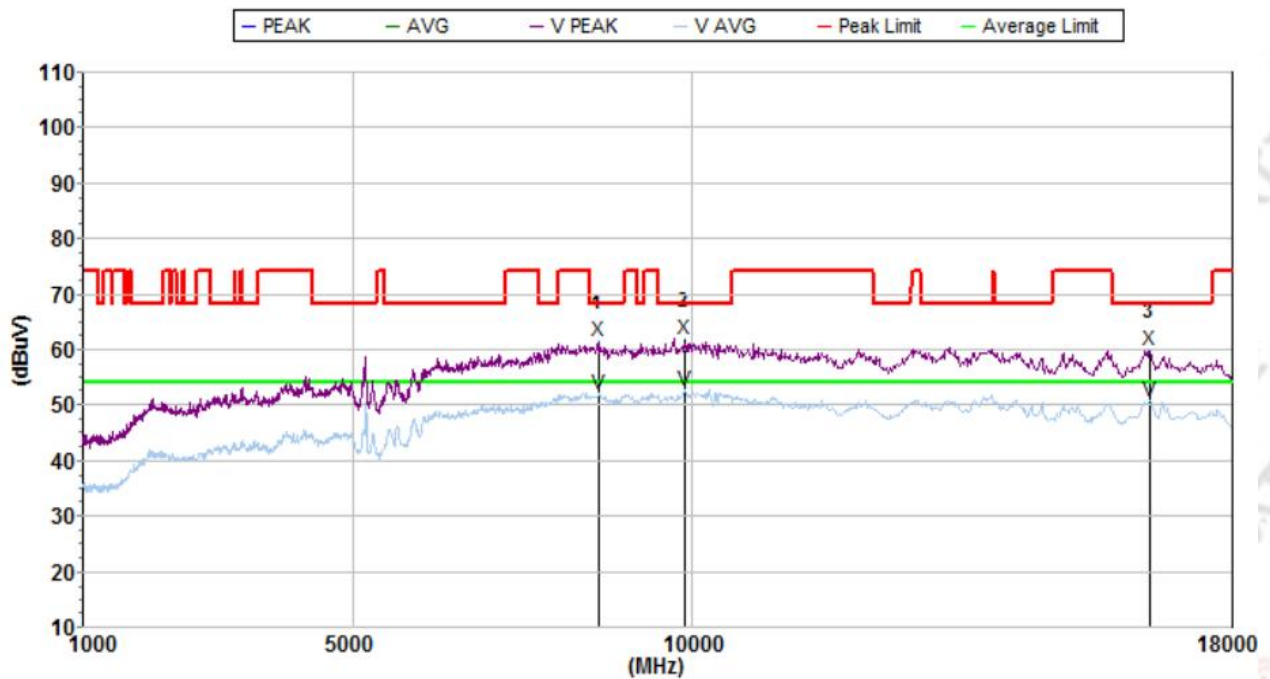
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6227.500	56.0	68.2	12.2
2	9517.000	59.2	68.2	9.0
3	16172.500	61.3	74.0	12.7
Avg				
1	6227.500	47.9	54.0	6.1
2	9517.000	50.0	54.0	4.0
3	16172.500	52.4	54.0	1.6

Polarization

Vertical

Mode

802.11a-TX Channel 40



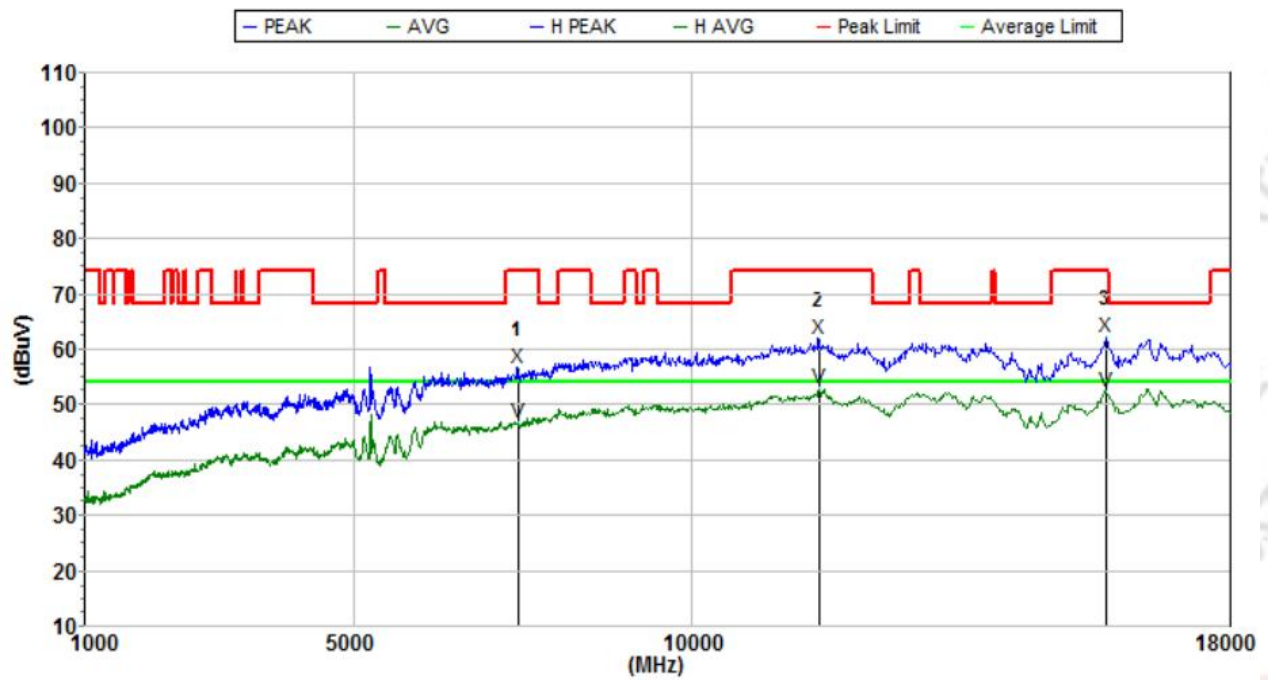
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	8633.000	61.8	68.2	6.4
2	9908.000	62.1	68.2	6.1
3	16776.000	59.9	68.2	8.3
Avg				
1	8633.000	52.0	54.0	2.0
2	9908.000	52.7	54.0	1.3
3	16776.000	50.8	54.0	3.2

Polarization

Horizontal

Mode

802.11a-TX Channel 48



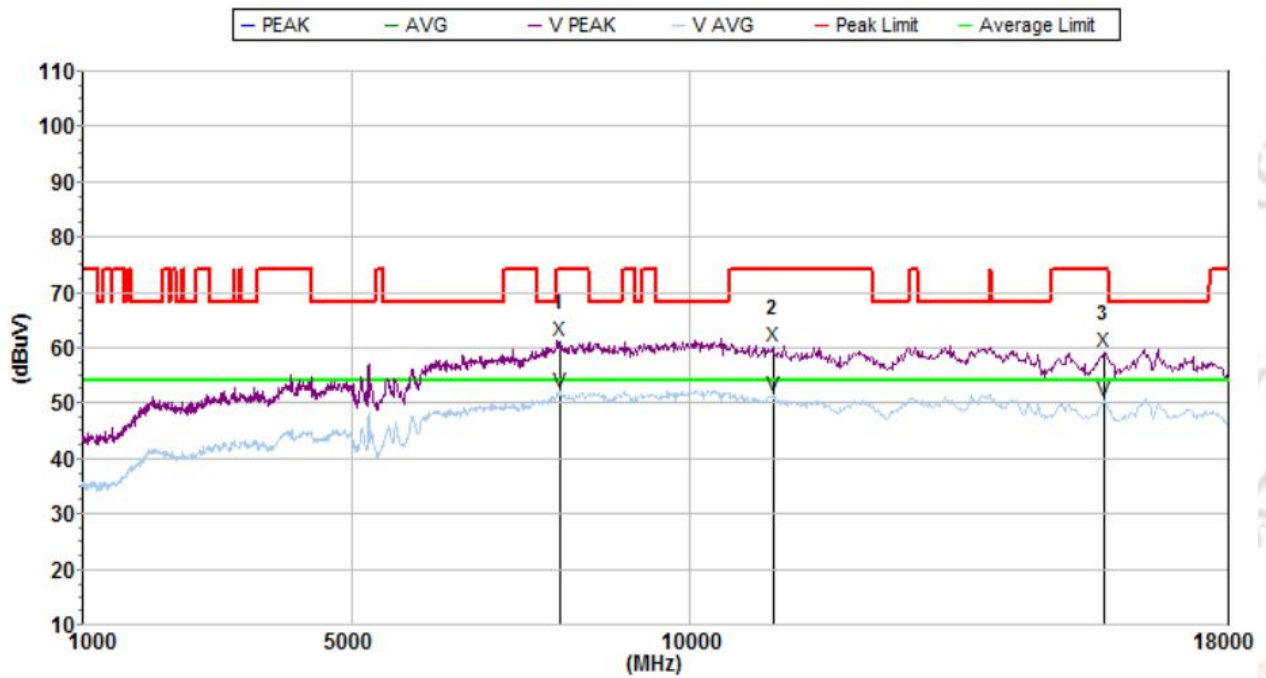
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	7426.000	56.6	74.0	17.4
2	11897.000	62.0	74.0	12.0
3	16155.500	62.3	74.0	11.7
Avg				
1	7426.000	47.0	54.0	7.0
2	11897.000	53.0	54.0	1.0
3	16155.500	52.5	54.0	1.5

Polarization

Vertical

Mode

802.11a-TX Channel 48



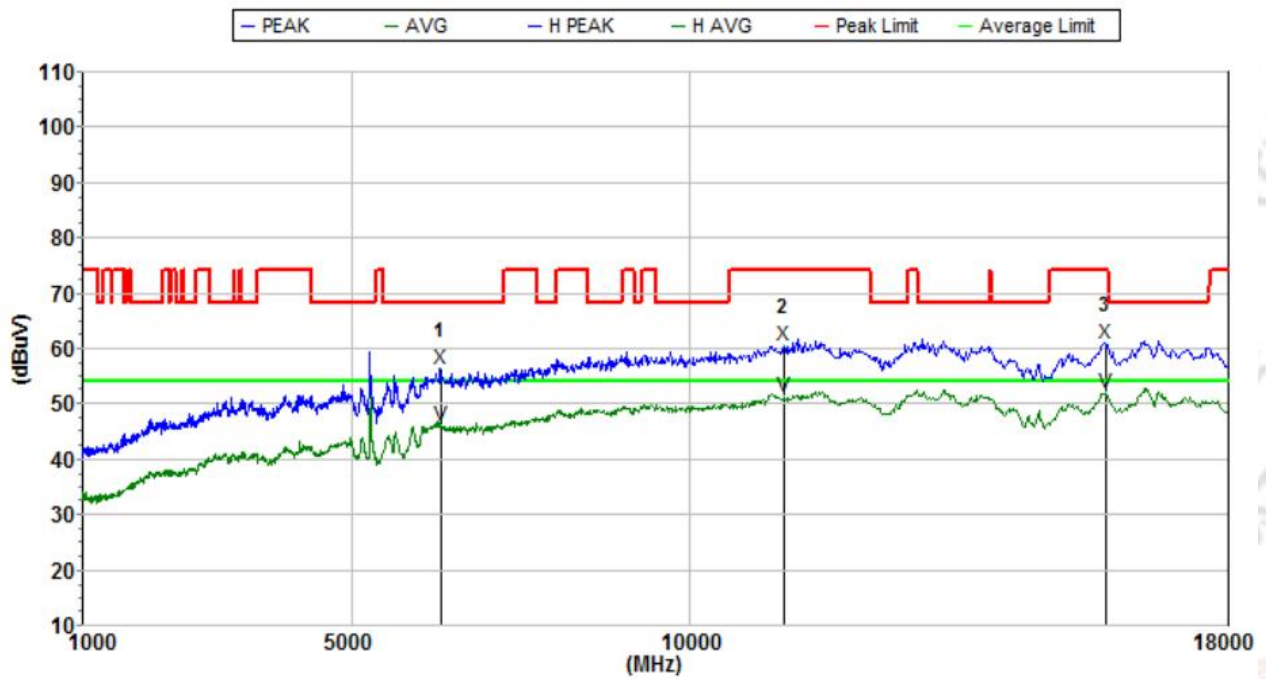
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	8080.500	61.2	74.0	12.8
2	11259.500	60.4	74.0	13.6
3	16147.000	59.2	74.0	14.8
Avg				
1	8080.500	52.1	54.0	1.9
2	11259.500	51.3	54.0	2.7
3	16147.000	50.5	54.0	3.5

Polarization

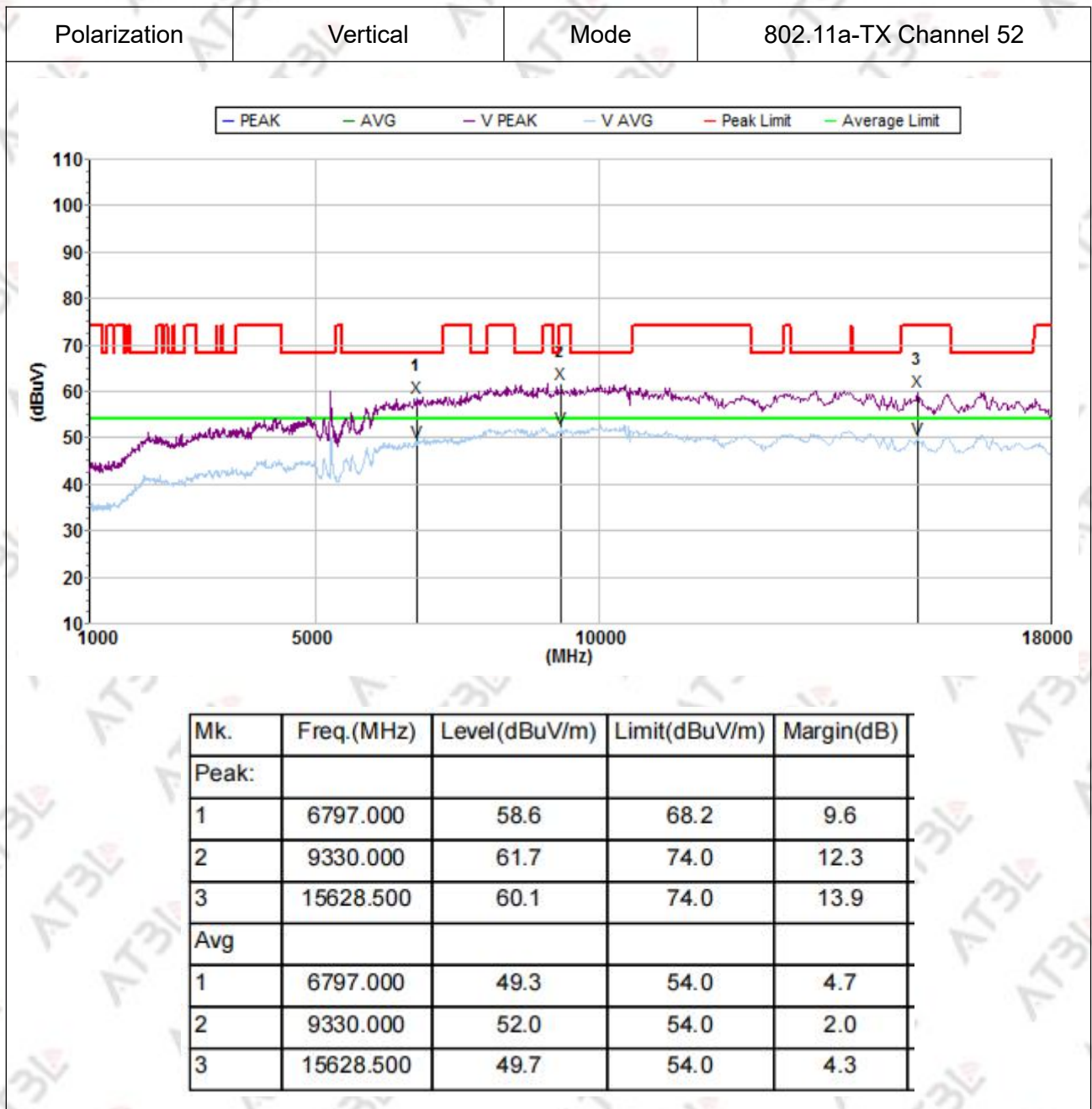
Horizontal

Mode

802.11a-TX Channel 52



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6321.000	56.3	68.2	11.9
2	11412.500	60.8	74.0	13.2
3	16172.500	61.1	74.0	12.9
Avg				
1	6321.000	46.3	54.0	7.7
2	11412.500	51.5	54.0	2.5
3	16172.500	52.2	54.0	1.8

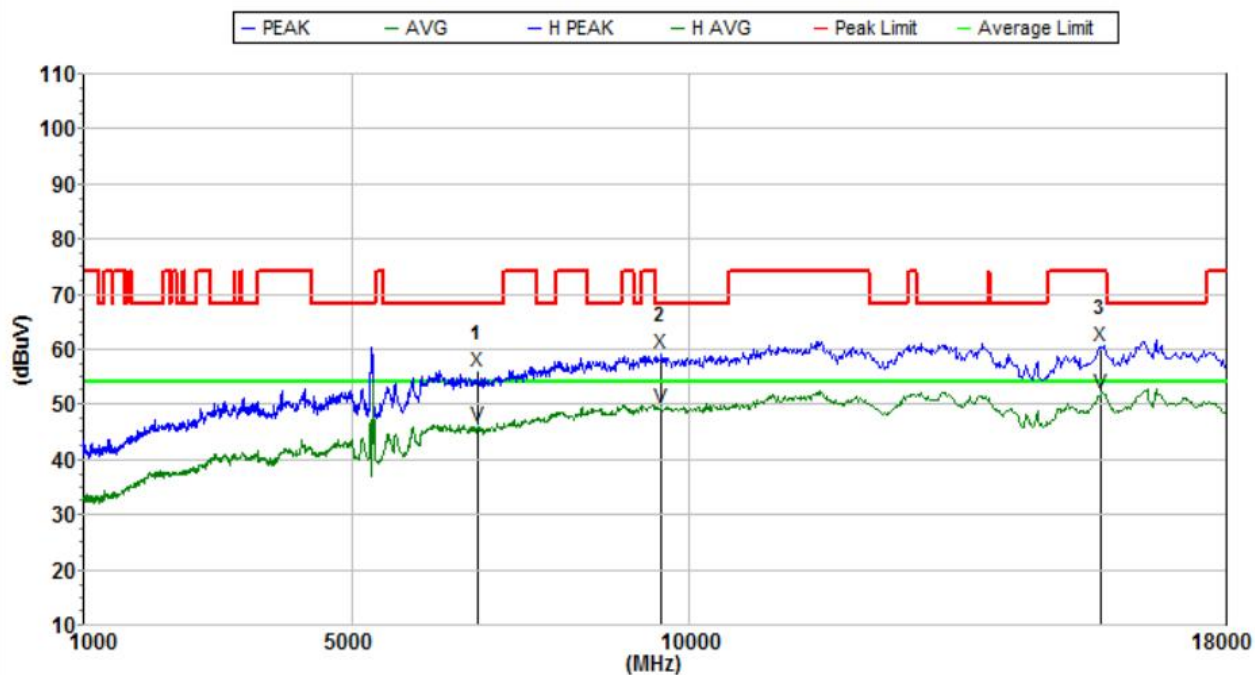


Polarization

Horizontal

Mode

802.11a-TX Channel 60



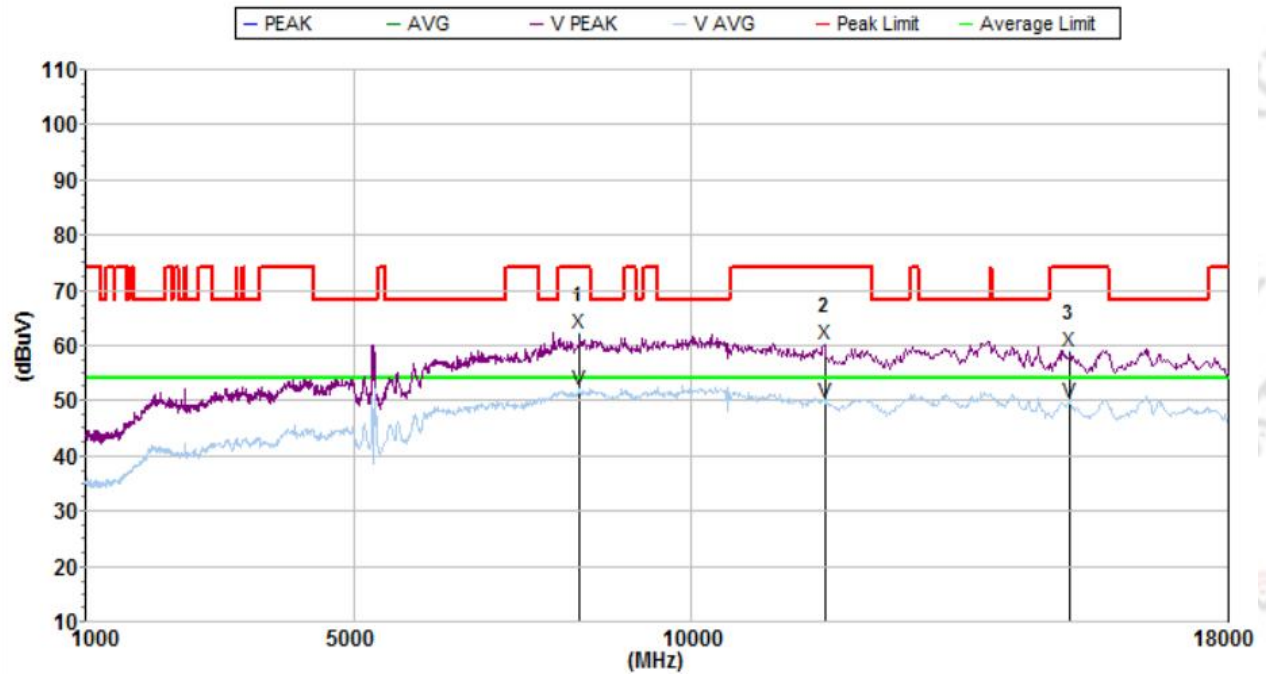
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6865.000	55.9	68.2	12.3
2	9602.000	59.2	68.2	9.0
3	16130.000	60.8	74.0	13.2
Avg				
1	6865.000	46.2	54.0	7.8
2	9602.000	49.4	54.0	4.6
3	16130.000	52.2	54.0	1.8

Polarization

Vertical

Mode

802.11a-TX Channel 60



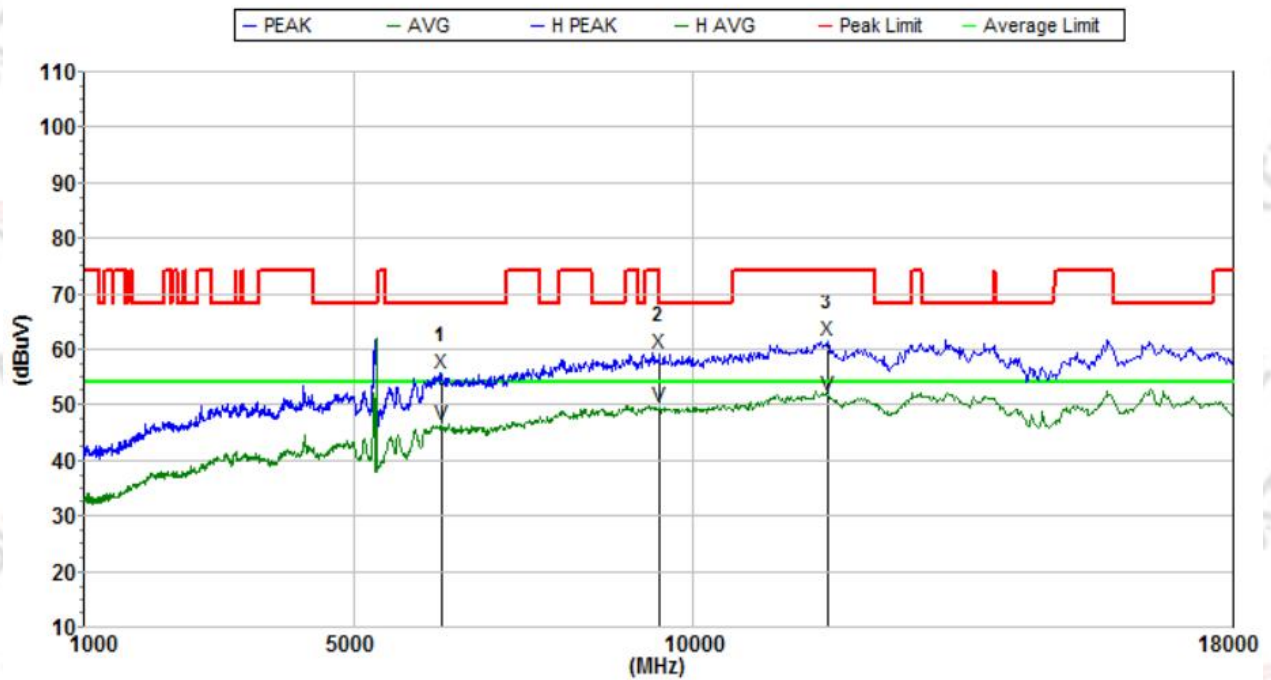
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	8335.500	62.3	74.0	11.7
2	12007.500	60.2	74.0	13.8
3	15628.500	59.1	74.0	14.9
Avg				
1	8335.500	52.1	54.0	1.9
2	12007.500	49.9	54.0	4.1
3	15628.500	49.7	54.0	4.3

Polarization

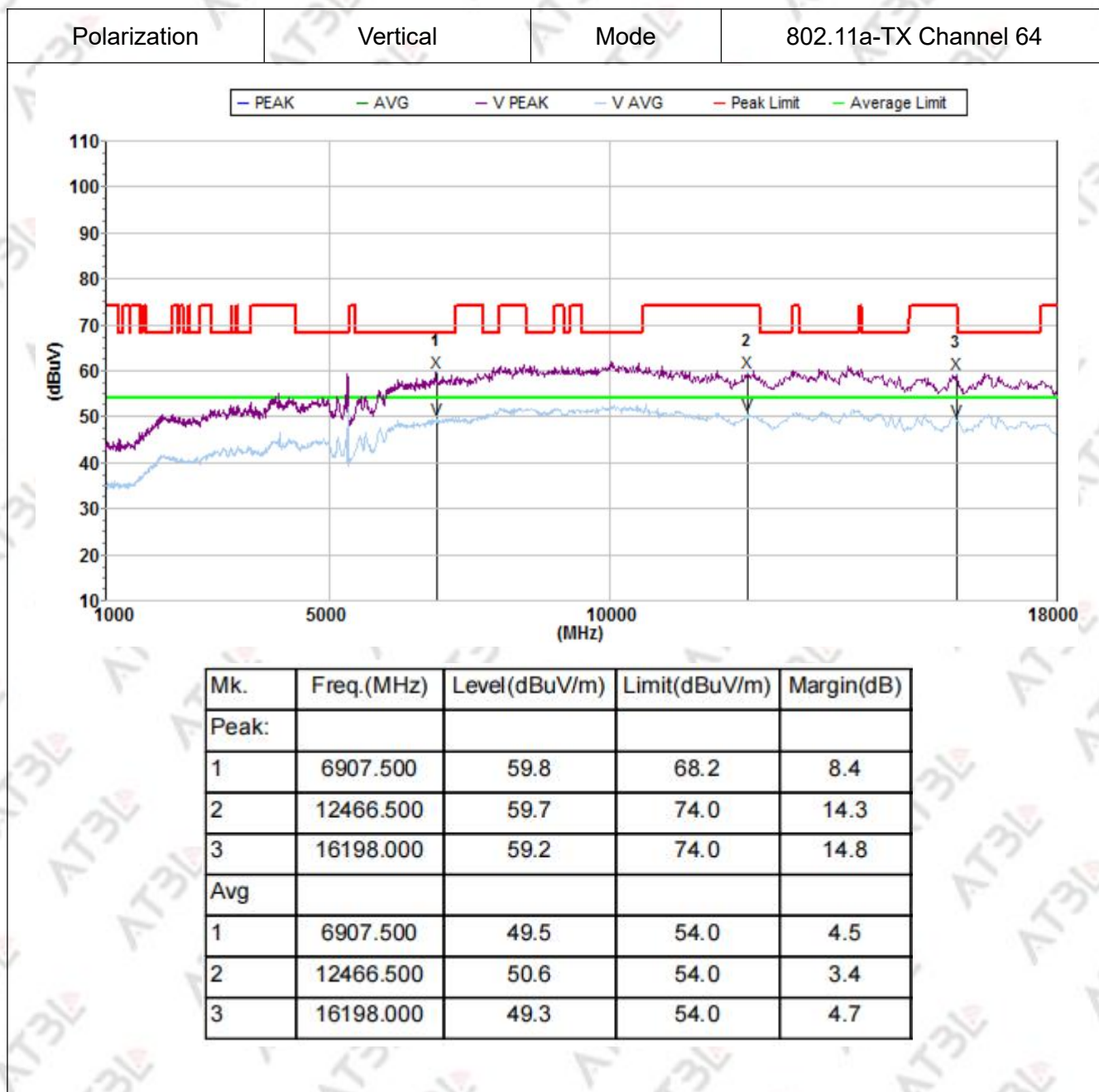
Horizontal

Mode

802.11a-TX Channel 64



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6287.000	55.7	68.2	12.5
2	9517.000	59.3	68.2	8.9
3	12007.500	61.7	74.0	12.3
Avg				
1	6287.000	46.4	54.0	7.6
2	9517.000	49.9	54.0	4.1
3	12007.500	51.9	54.0	2.1

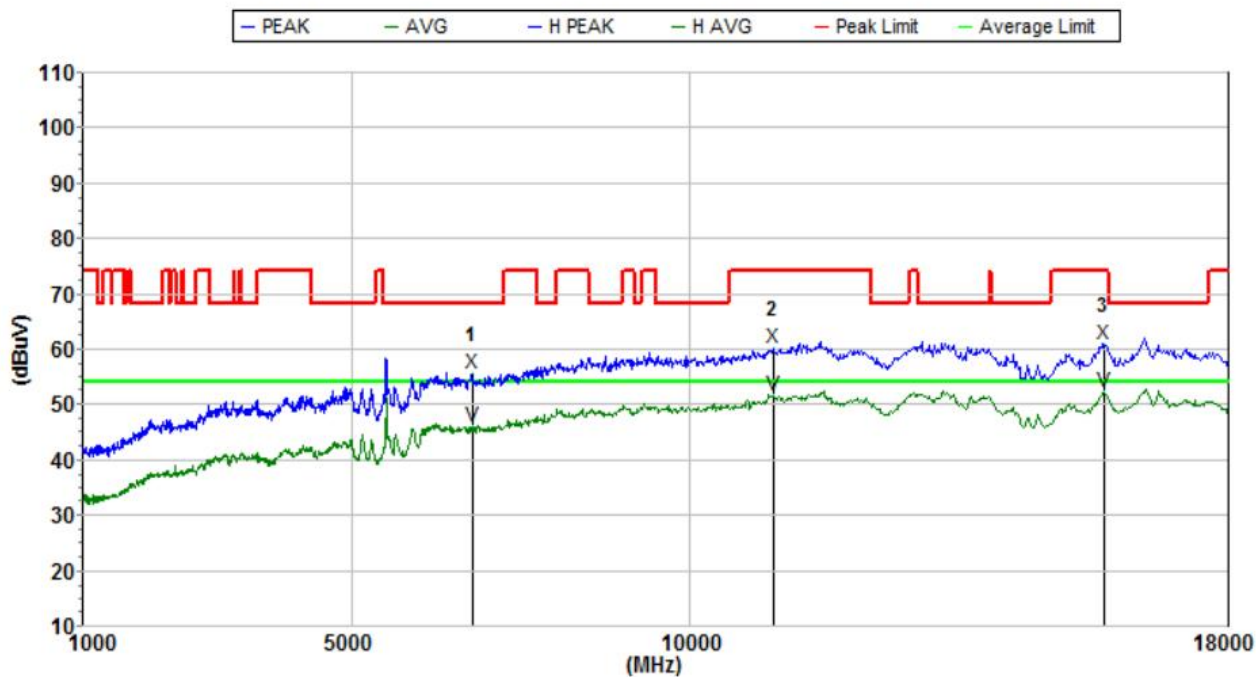


Polarization

Horizontal

Mode

802.11a-TX Channel 100



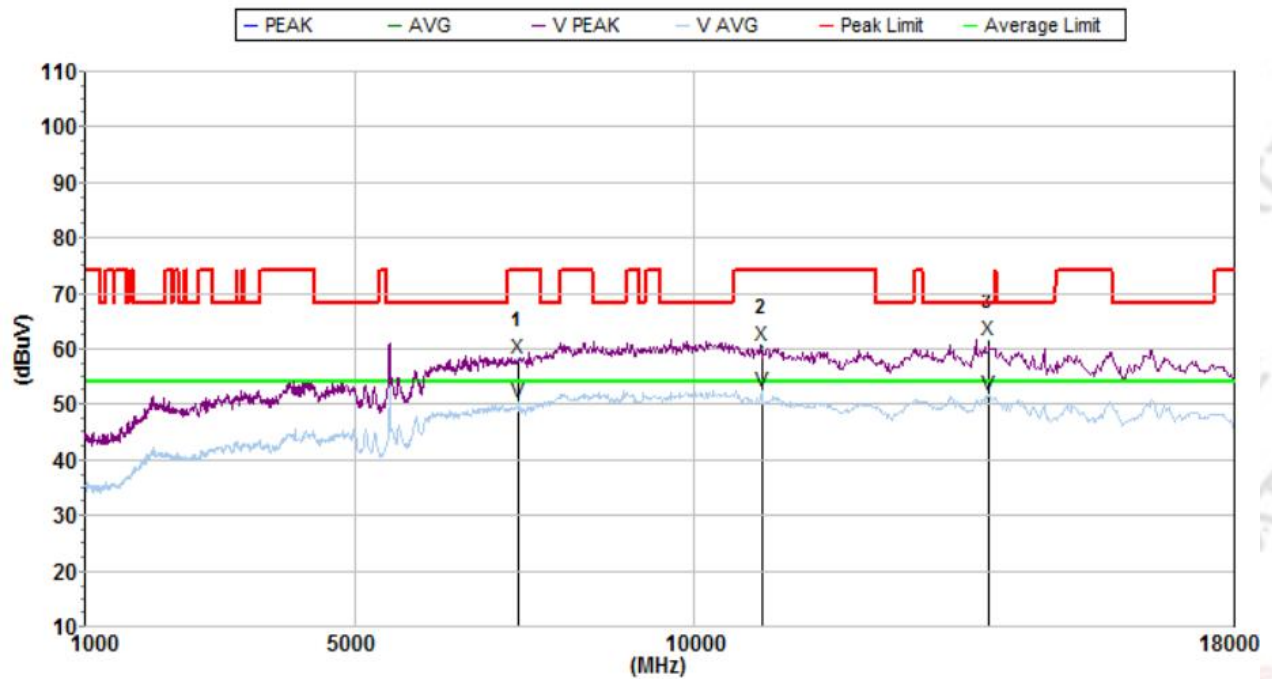
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6780.000	55.8	68.2	12.4
2	11259.500	60.4	74.0	13.6
3	16155.500	61.1	74.0	12.9
Avg				
1	6780.000	46.3	54.0	7.7
2	11259.500	51.7	54.0	2.3
3	16155.500	52.4	54.0	1.6

Polarization

Vertical

Mode

802.11a-TX Channel 100



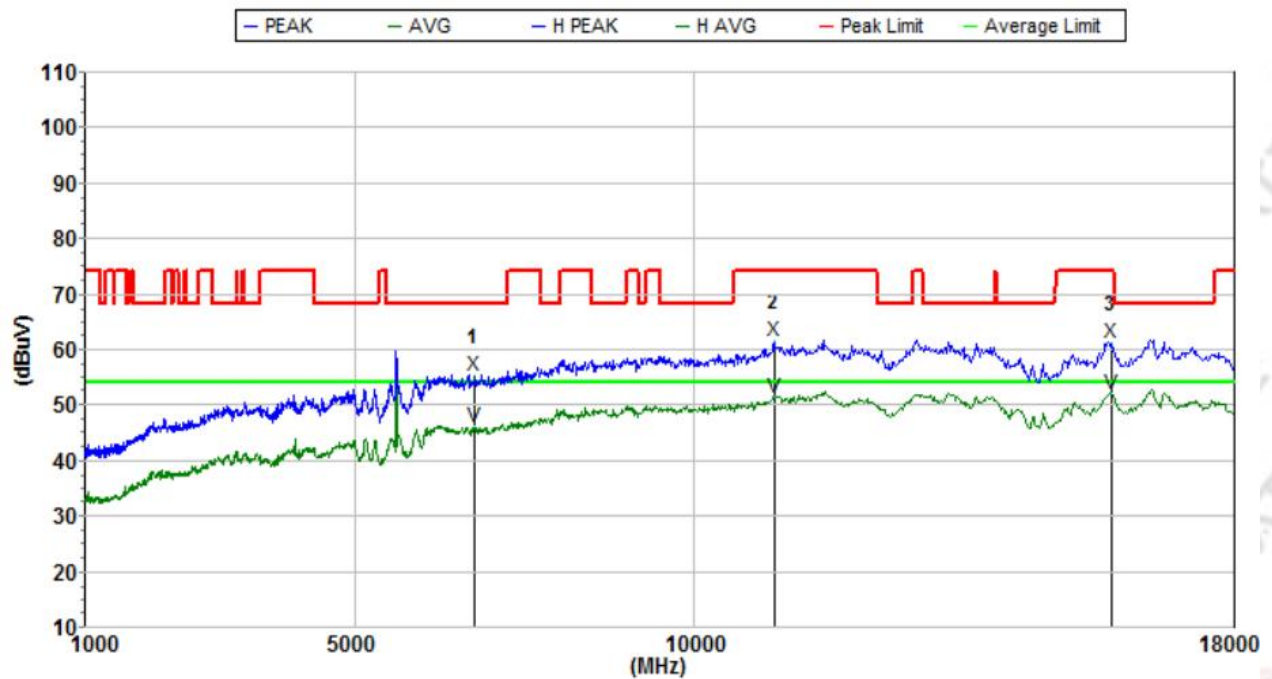
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	7409.000	58.4	74.0	15.6
2	11013.000	60.6	74.0	13.4
3	14353.500	61.6	68.2	6.6
Avg				
1	7409.000	50.4	54.0	3.6
2	11013.000	52.3	54.0	1.7
3	14353.500	51.9	54.0	2.1

Polarization

Horizontal

Mode

802.11a-TX Channel 120



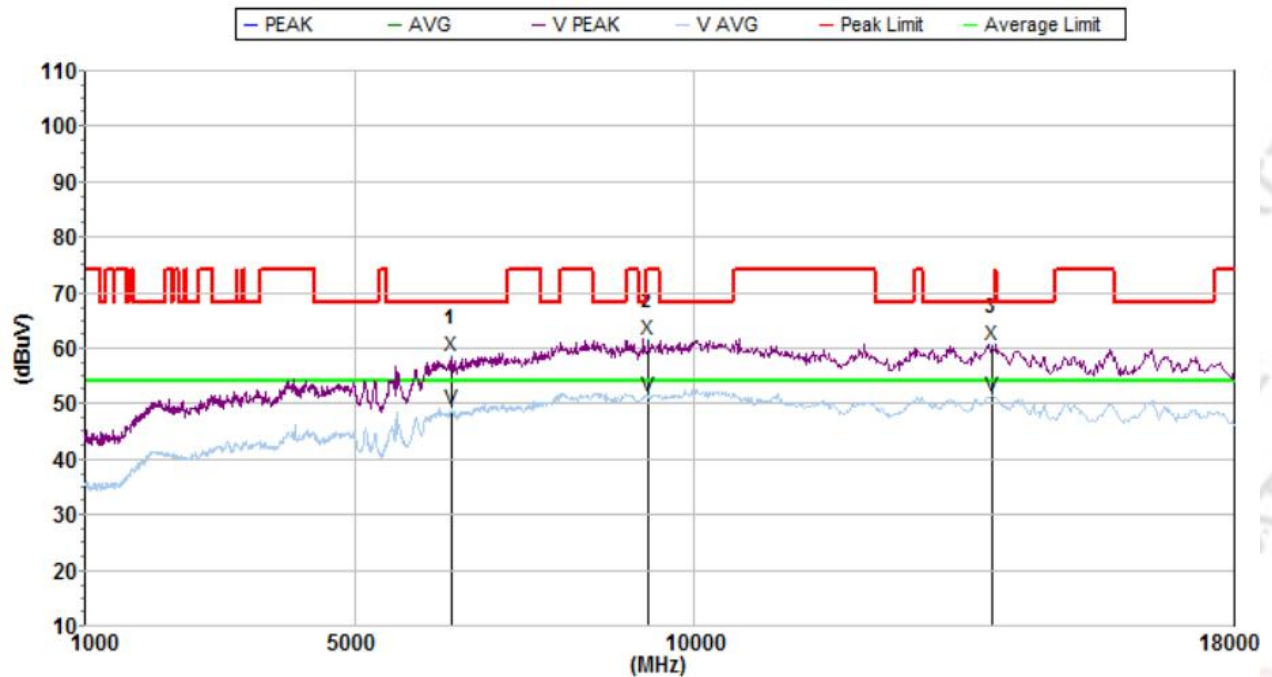
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6763.000	55.4	68.2	12.8
2	11208.500	61.6	74.0	12.4
3	16181.000	61.2	74.0	12.8
Avg				
1	6763.000	46.3	54.0	7.7
2	11208.500	51.6	54.0	2.4
3	16181.000	52.1	54.0	1.9

Polarization

Horizontal

Mode

802.11a-TX Channel 120



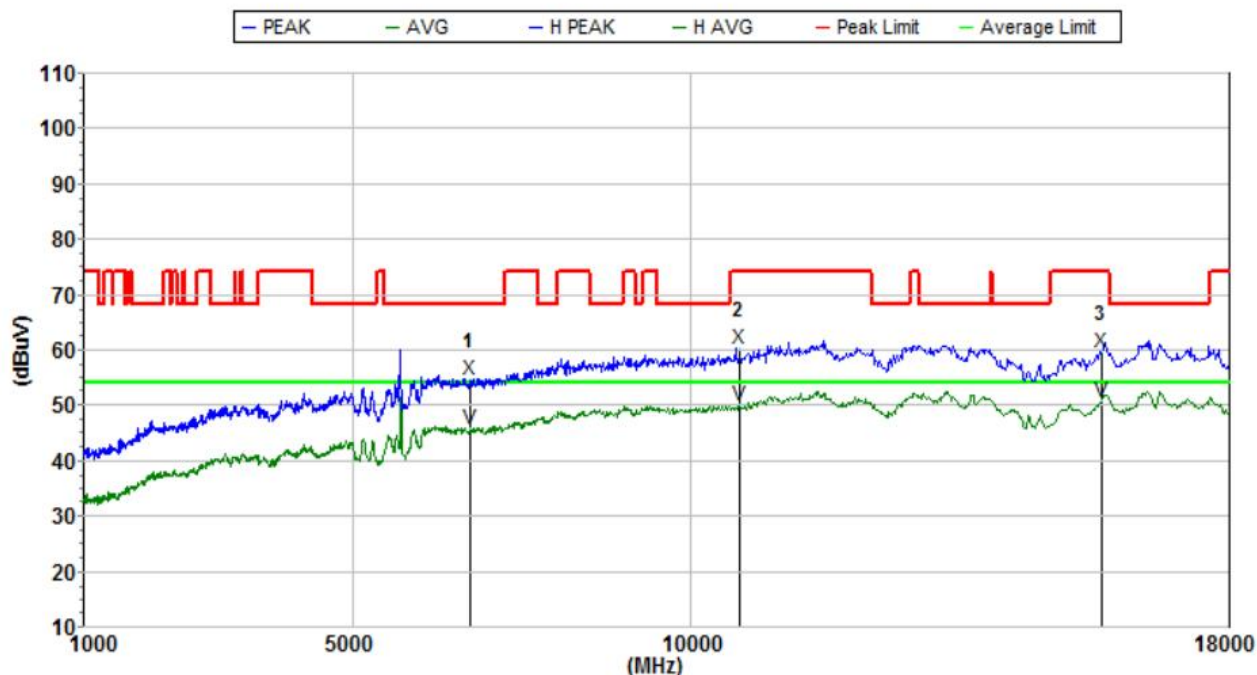
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6431.500	58.6	68.2	9.6
2	9321.500	61.6	74.0	12.4
3	14413.000	60.7	68.2	7.5
Avg				
1	6431.500	49.0	54.0	5.0
2	9321.500	51.6	54.0	2.4
3	14413.000	51.4	54.0	2.6

Polarization

Horizontal

Mode

802.11a-TX Channel 140



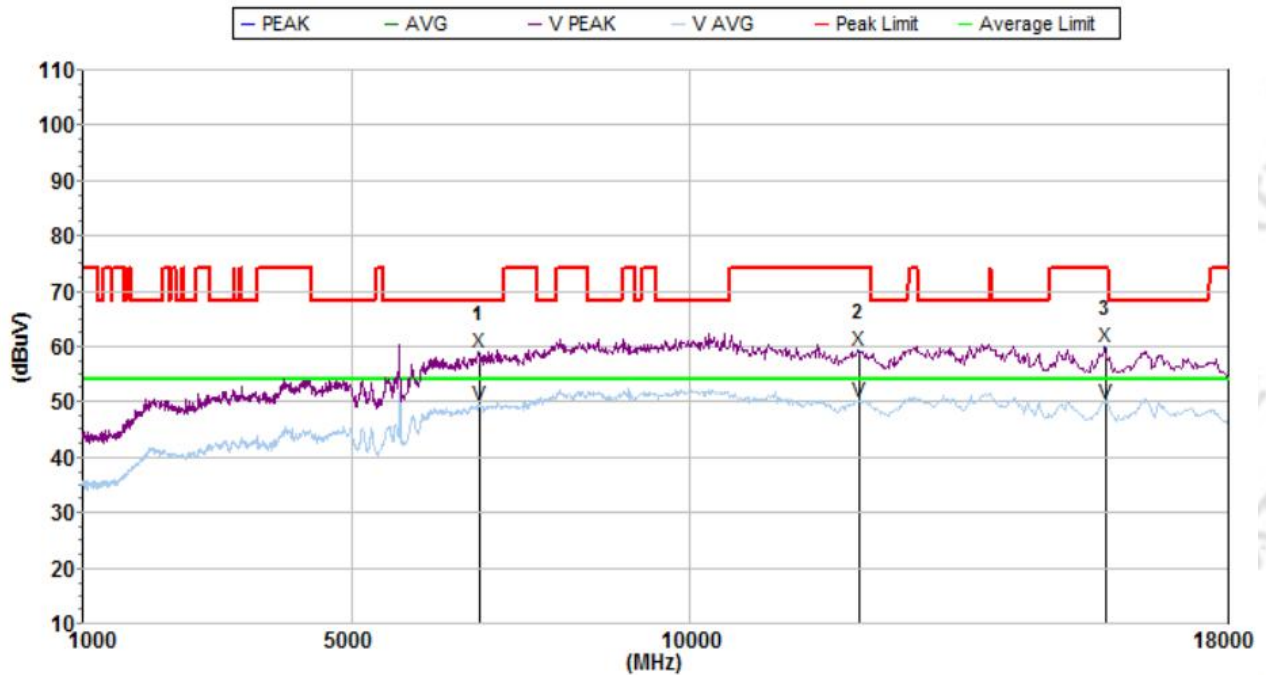
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6737.500	54.9	68.2	13.3
2	10741.000	60.3	74.0	13.7
3	16096.000	59.8	74.0	14.2
Avg				
1	6737.500	46.0	54.0	8.0
2	10741.000	50.0	54.0	4.0
3	16096.000	50.9	54.0	3.1

Polarization

Horizontal

Mode

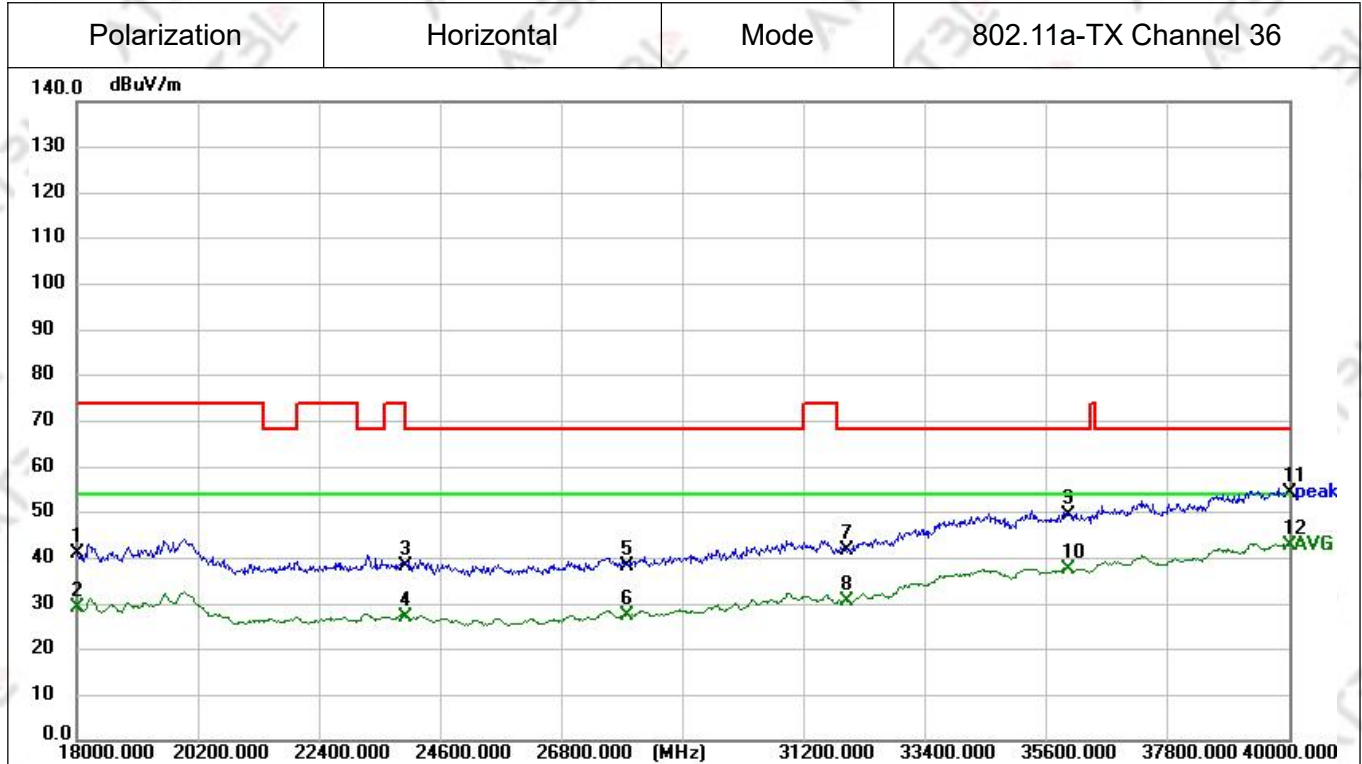
802.11a-TX Channel 140



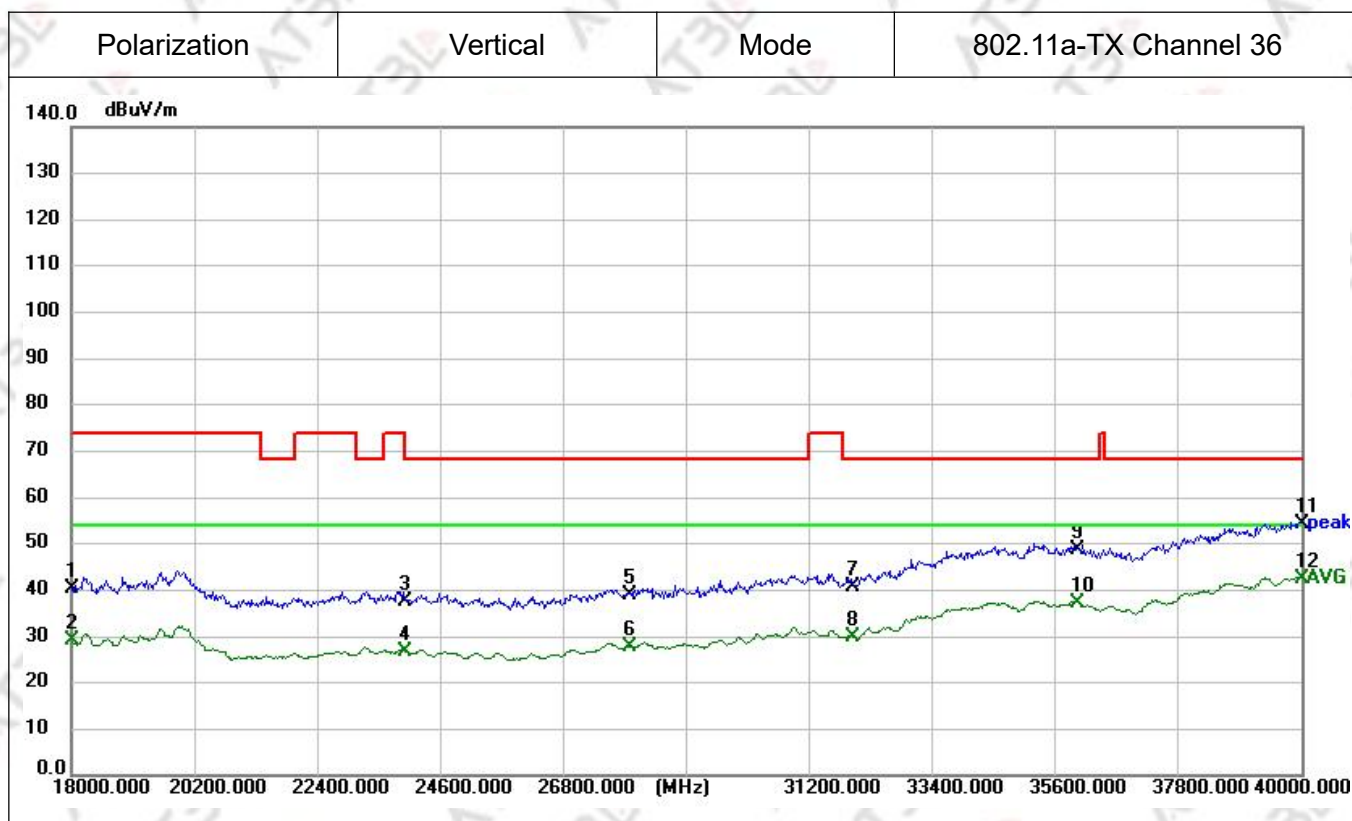
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	6890.500	59.0	68.2	9.2
2	12534.500	59.4	74.0	14.6
3	16181.000	60.0	74.0	14.0
Avg				
1	6890.500	49.5	54.0	4.5
2	12534.500	50.1	54.0	3.9
3	16181.000	49.9	54.0	4.1

18GHz~40GHz

Note:All modes have been tested, only worst (802.11a-TX Channel 36)mode was recorded in the test report.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	18000.000	41.48	-0.55	40.93	74.00	-33.07	peak
2	18000.000	29.81	-0.55	29.26	54.00	-24.74	AVG
3	24000.000	39.94	-1.65	38.29	68.20	-29.91	peak
4	24000.000	28.63	-1.65	26.98	54.00	-27.02	AVG
5	28000.000	39.66	-1.52	38.14	68.20	-30.06	peak
6	28000.000	29.02	-1.52	27.50	54.00	-26.50	AVG
7	32000.000	40.80	0.84	41.64	68.20	-26.56	peak
8	32000.000	29.61	0.84	30.45	54.00	-23.55	AVG
9	36000.000	44.10	5.45	49.55	68.20	-18.65	peak
10	36000.000	32.19	5.45	37.64	54.00	-16.36	AVG
11	40000.000	46.95	7.38	54.33	68.20	-13.87	peak
12	40000.000	35.26	7.38	42.64	54.00	-11.36	AVG
*							



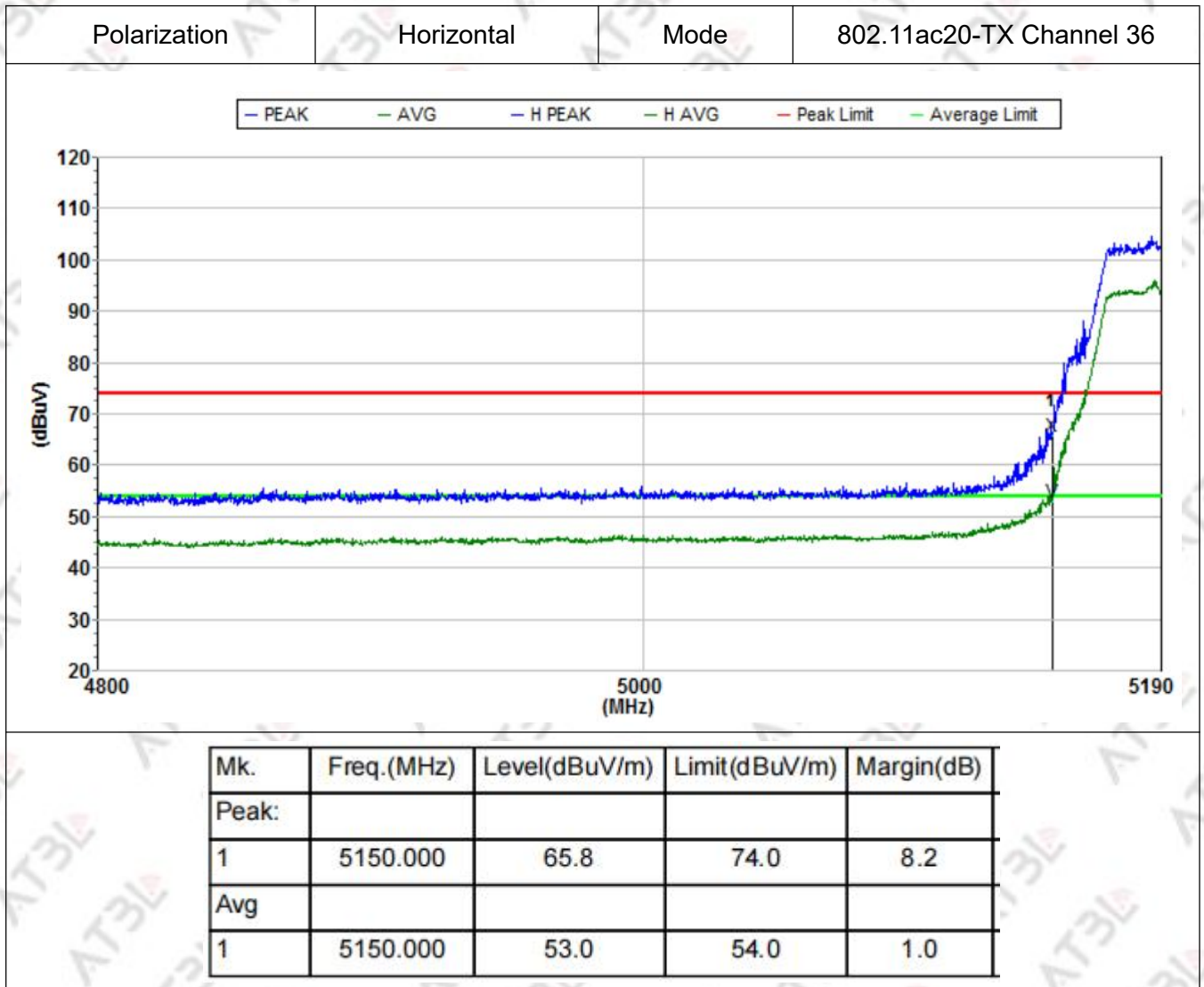
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	18000.000	41.30	-0.85	40.45	74.00	-33.55	peak
2	18000.000	29.89	-0.85	29.04	54.00	-24.96	AVG
3	24000.000	39.75	-2.05	37.70	68.20	-30.50	peak
4	24000.000	28.59	-2.05	26.54	54.00	-27.46	AVG
5	28000.000	40.27	-1.22	39.05	68.20	-29.15	peak
6	28000.000	28.95	-1.22	27.73	54.00	-26.27	AVG
7	32000.000	40.60	0.24	40.84	68.20	-27.36	peak
8	32000.000	29.59	0.24	29.83	54.00	-24.17	AVG
9	36000.000	43.80	5.05	48.85	68.20	-19.35	peak
10	36000.000	32.15	5.05	37.20	54.00	-16.80	AVG
11	40000.000	47.21	7.18	54.39	68.20	-13.81	peak
12	40000.000	35.28	7.18	42.46	54.00	-11.54	AVG
*							

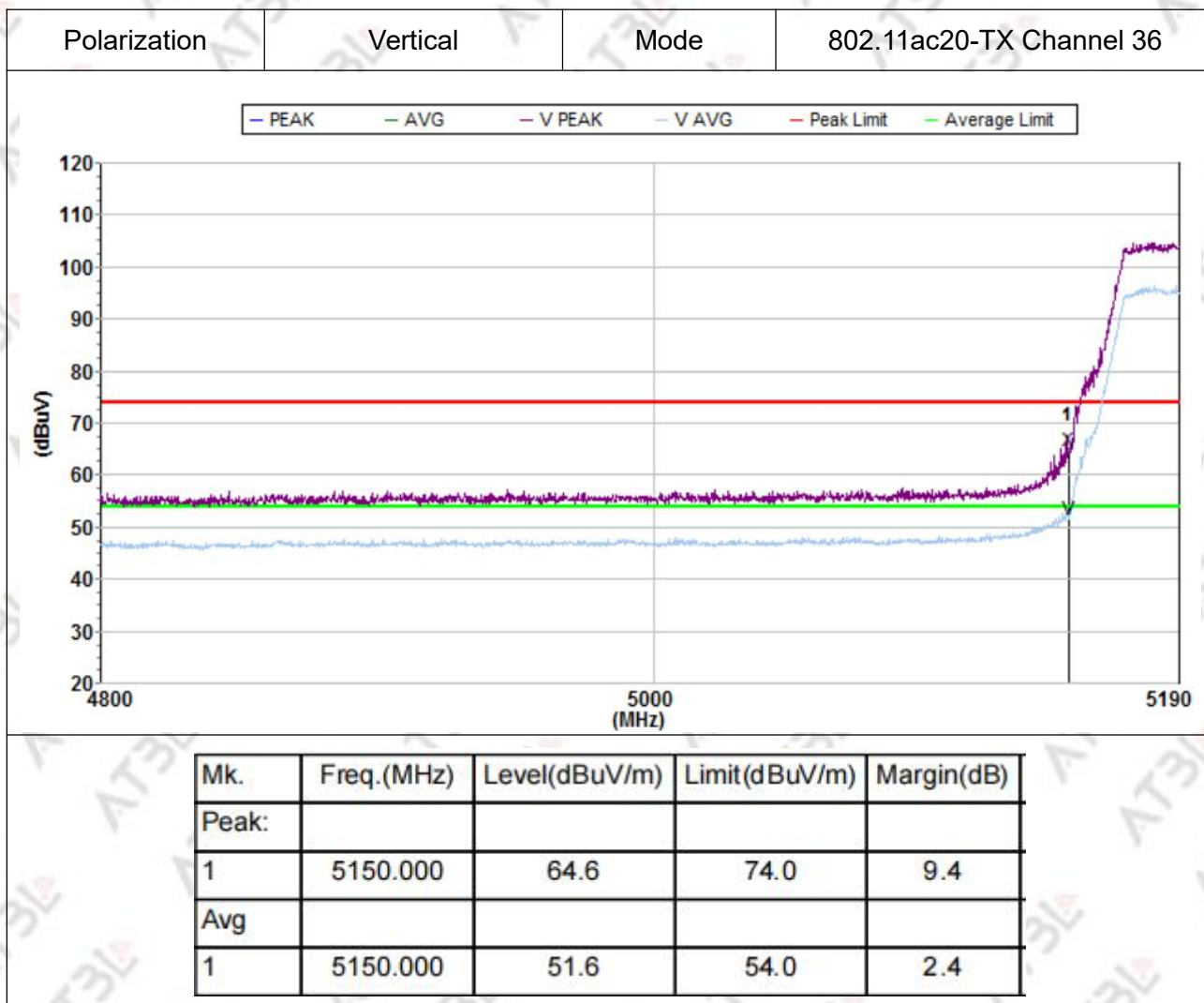
Test Result of Restricted Band

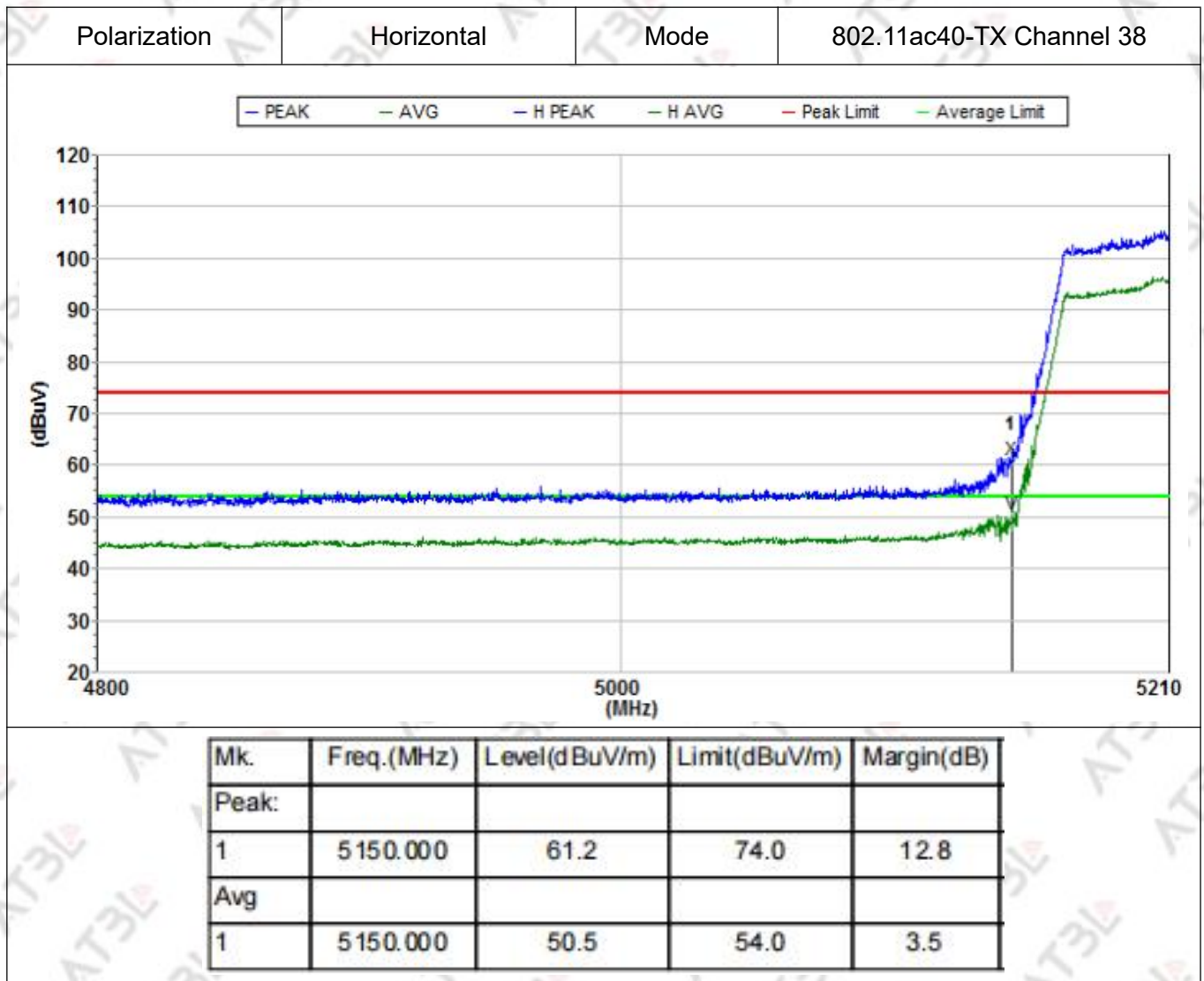
Note:

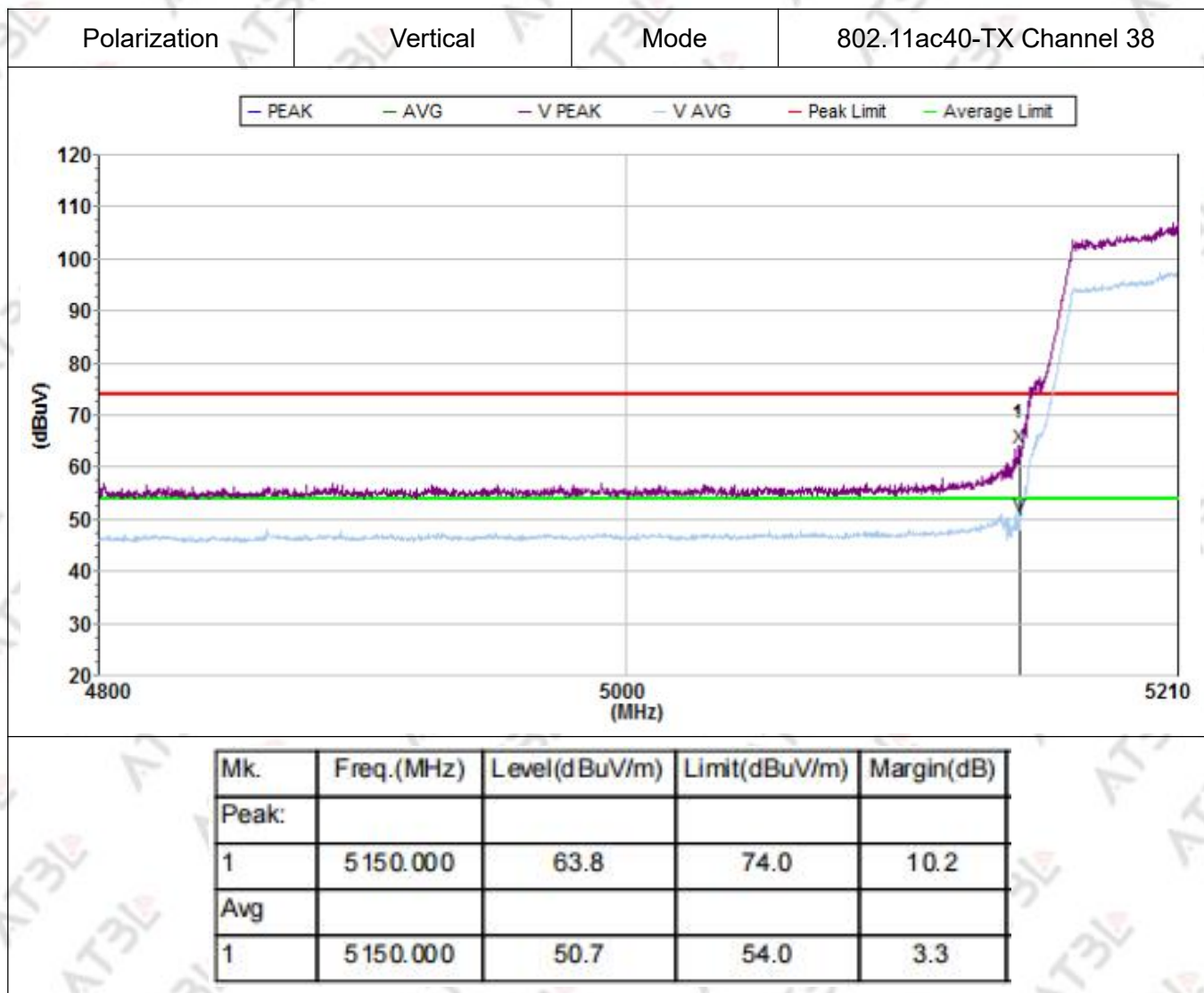
- 1.Only the worst 802.11ac data is represented in the report.
- 2.For frequencies not falling within the 15.205 MHz limit band, the limit should be 68.2dBuV/m (-27dBm/MHz).
- The result meets the limit requirements.
- 3.Margin=Level-Limit=Reading+factor-Limit

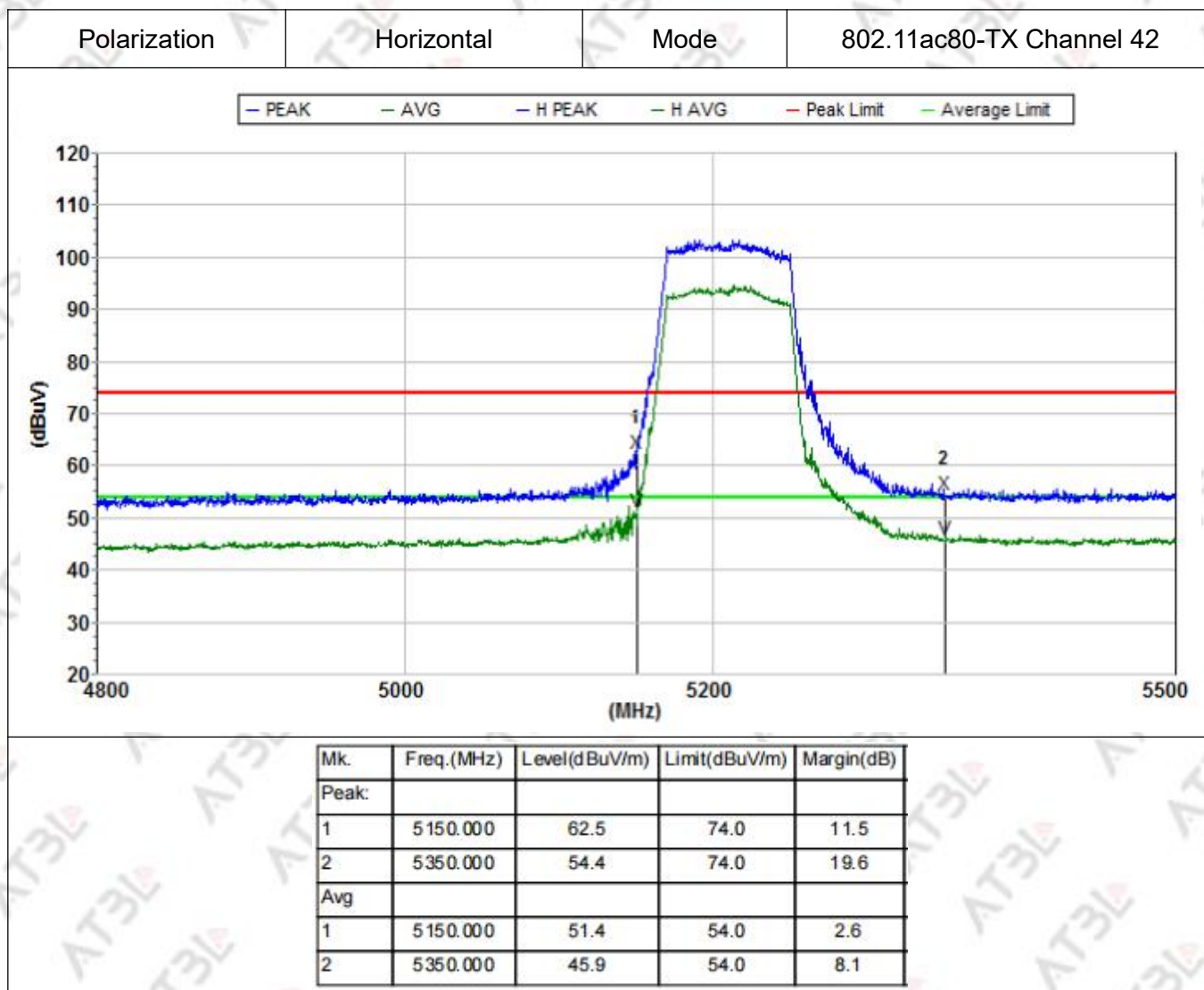
U-NII-1:

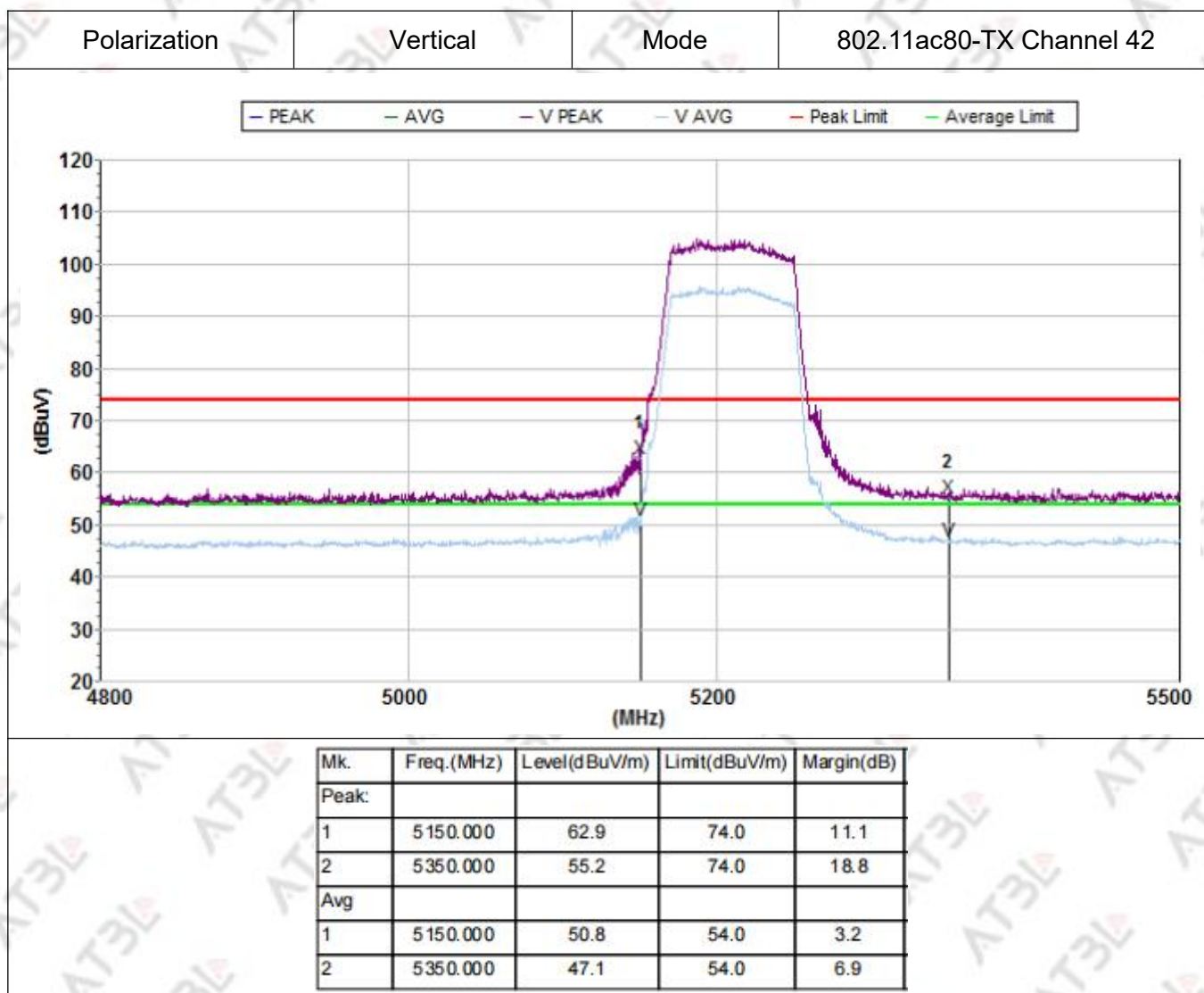


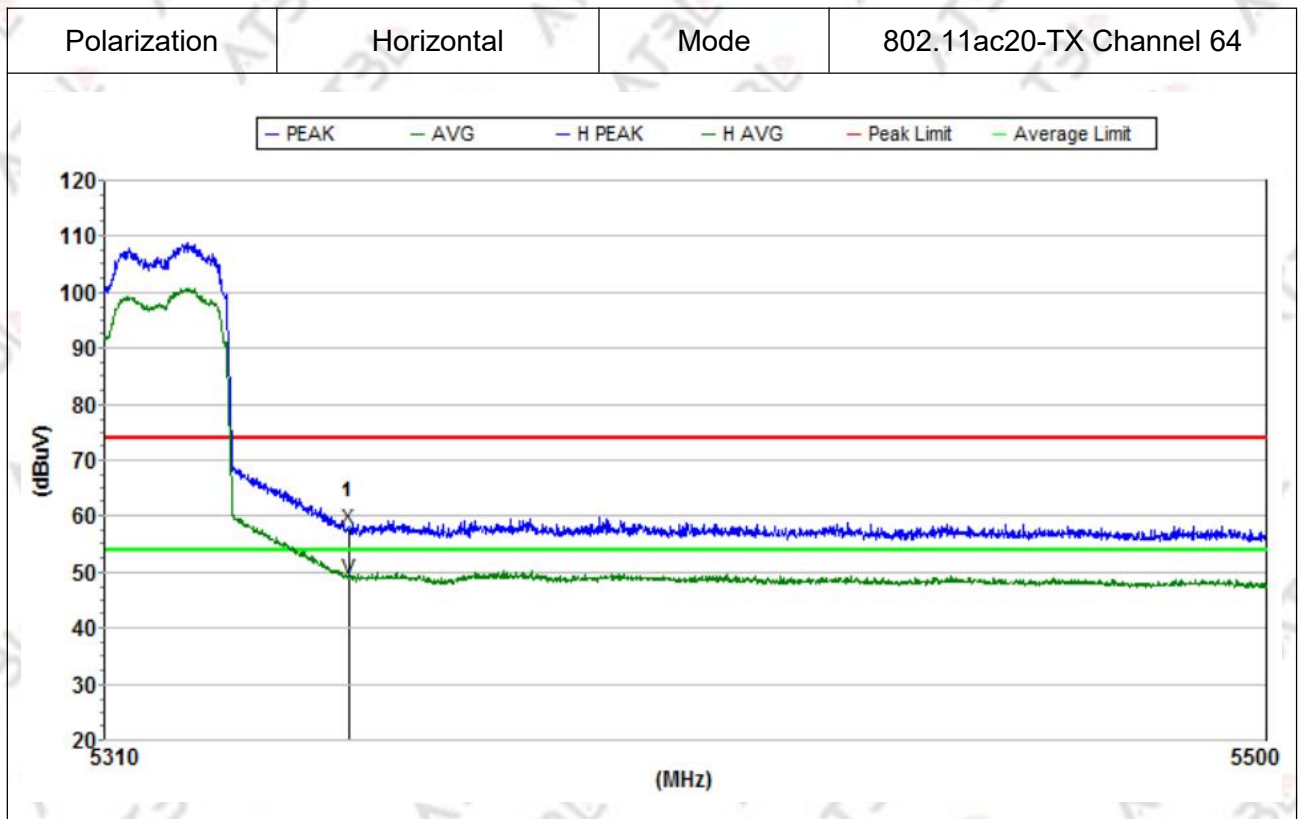




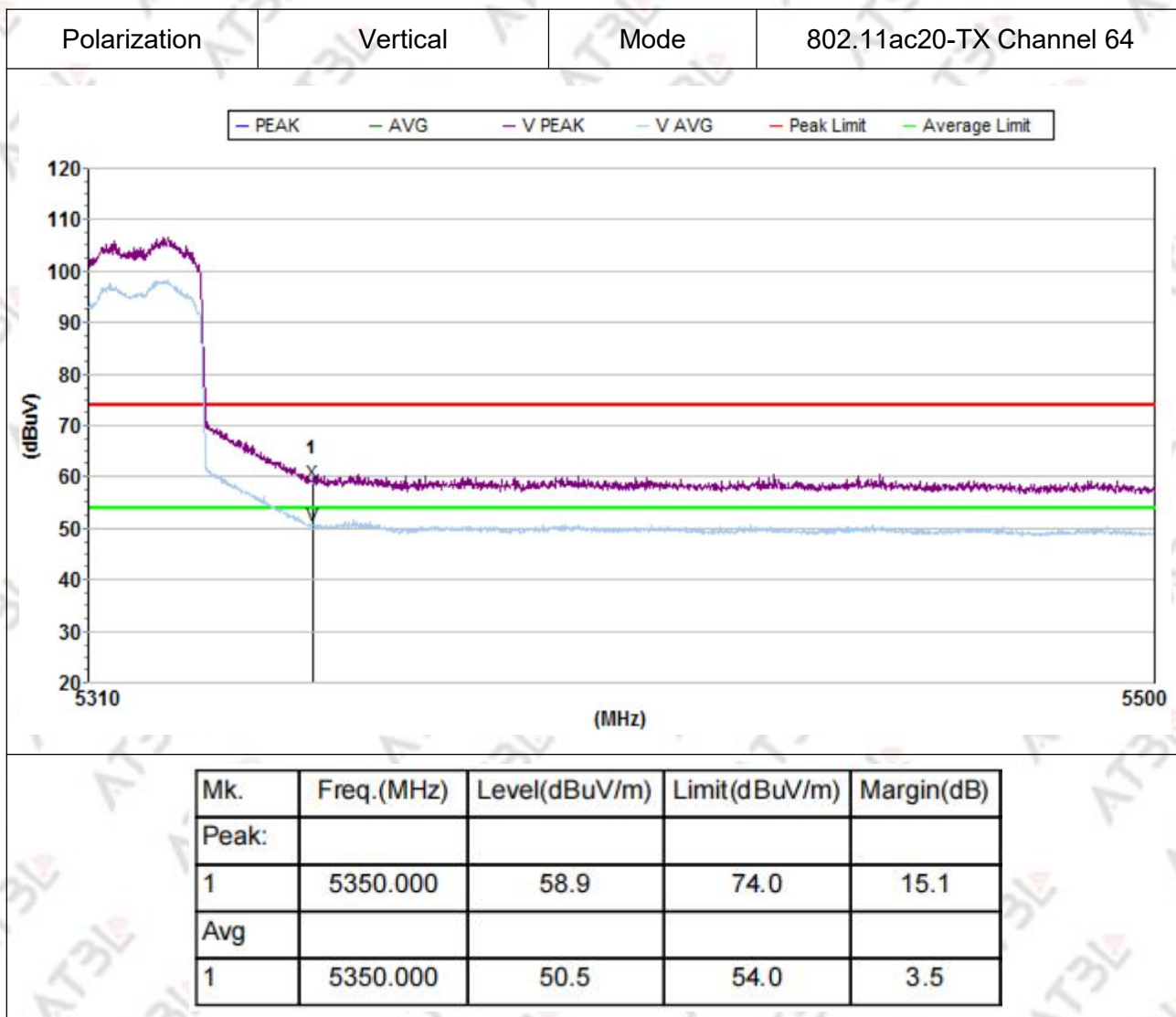


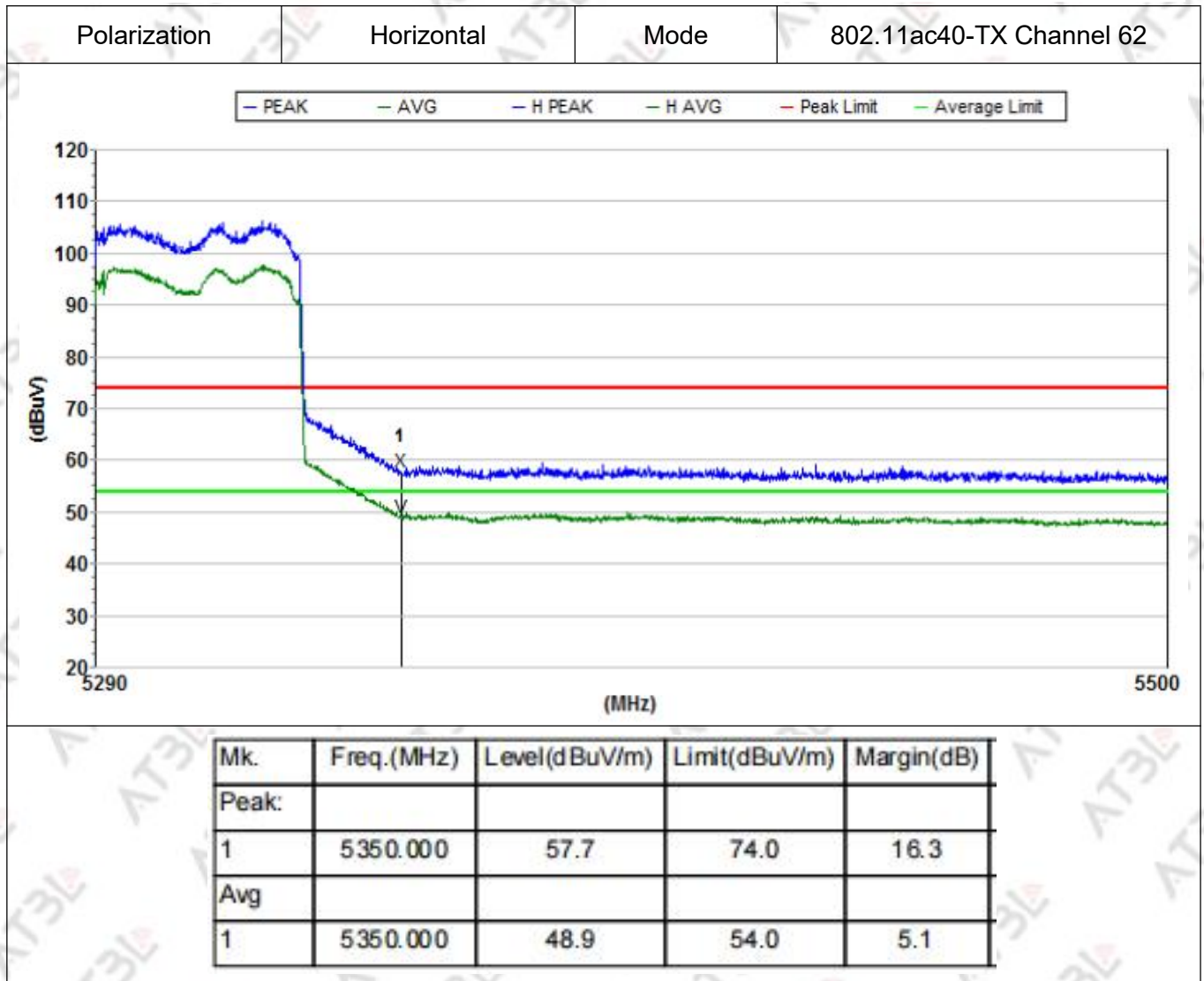


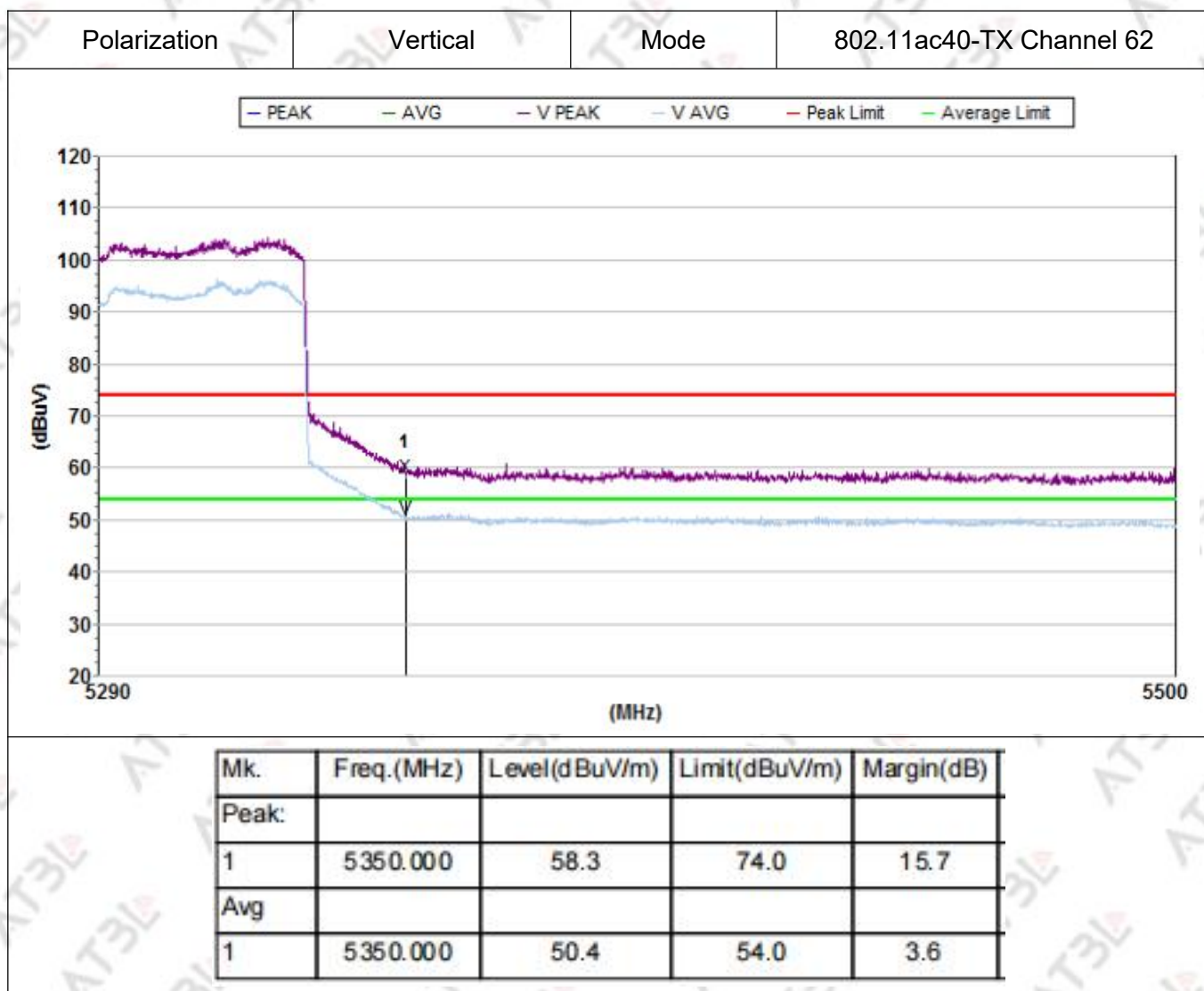


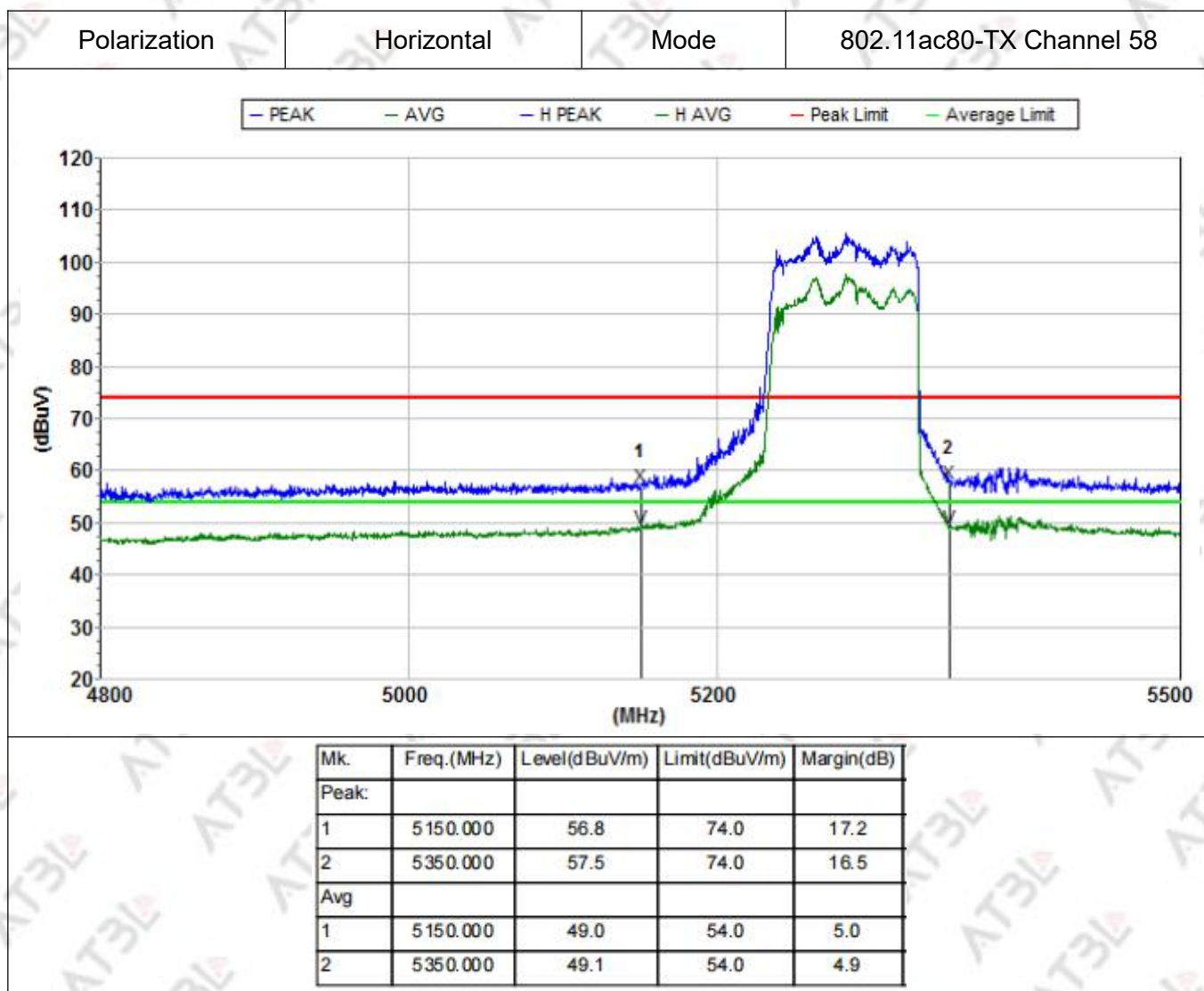


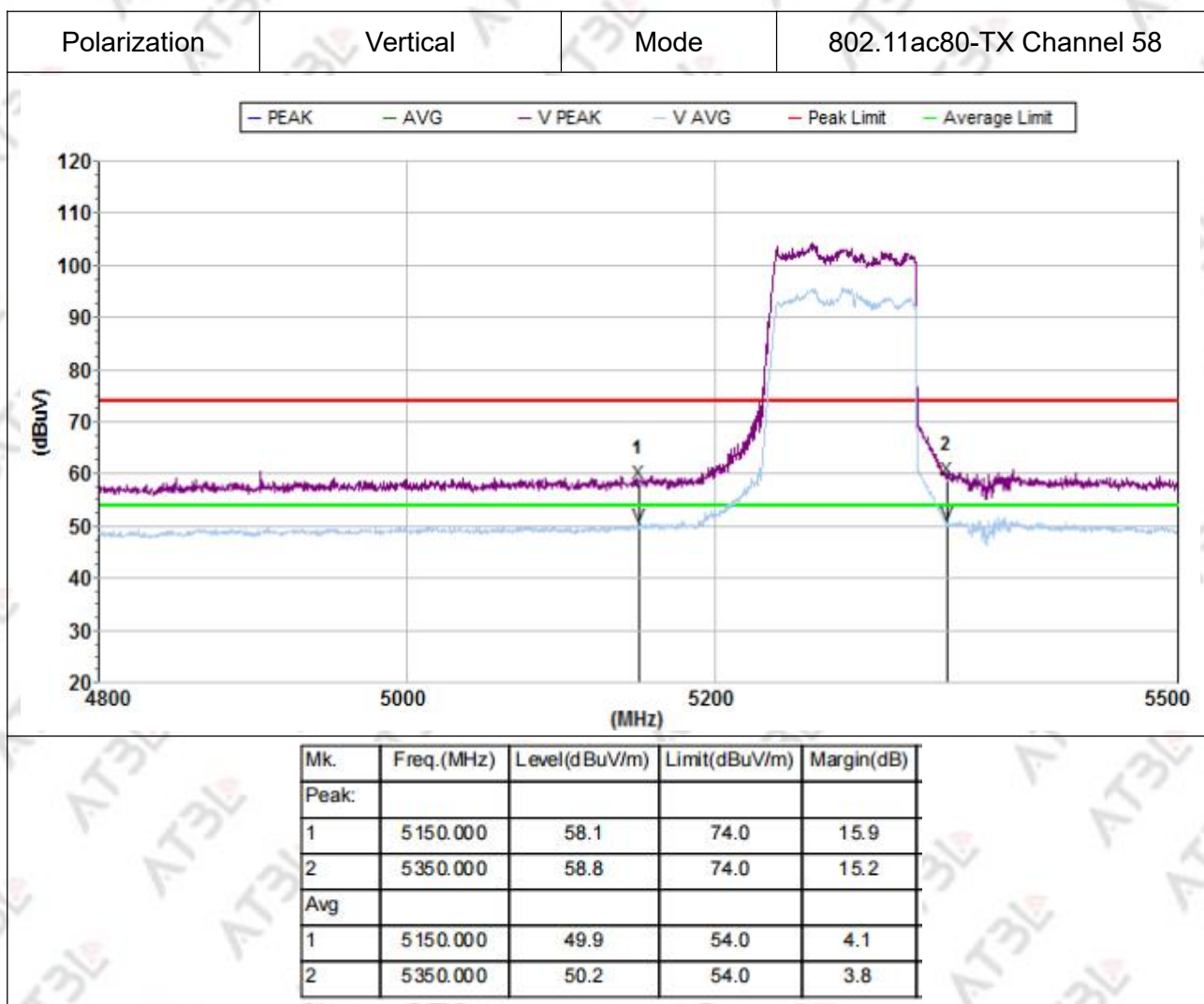
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)
Peak:				
1	5350.000	57.8	74.0	16.2
Avg				
1	5350.000	48.8	54.0	5.2









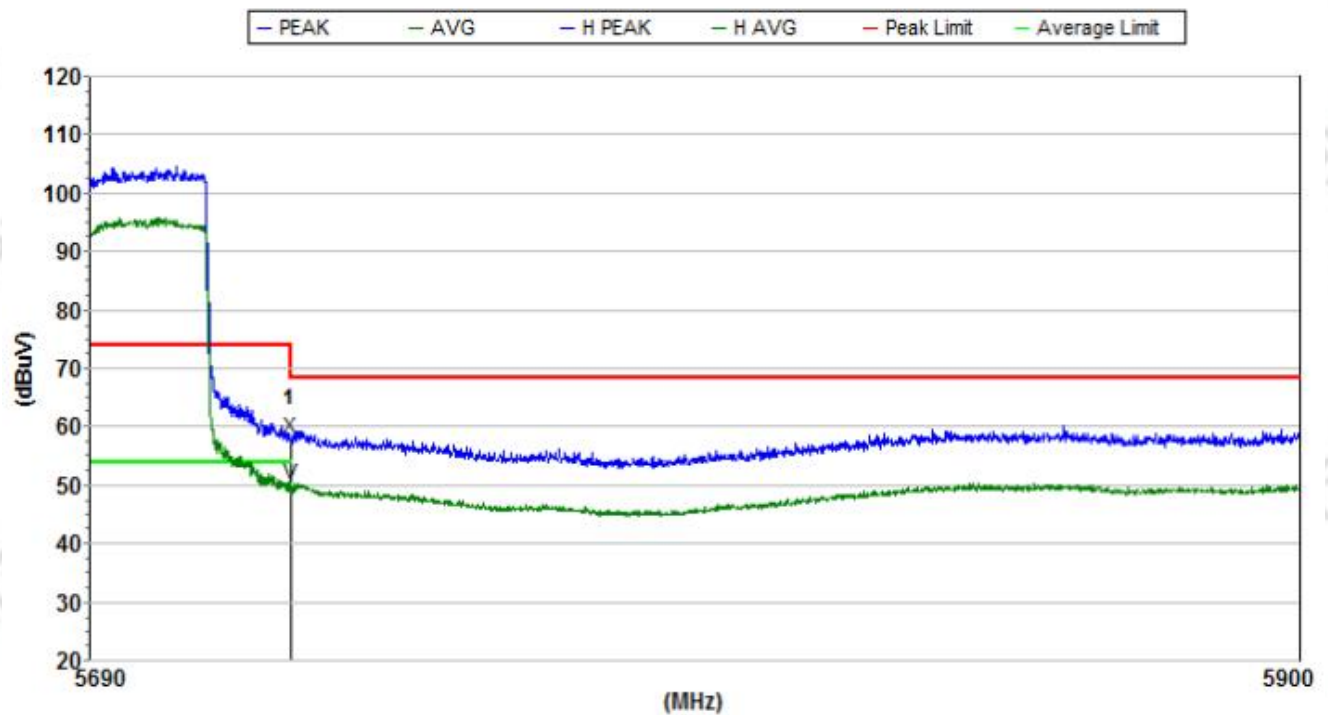


Polarization

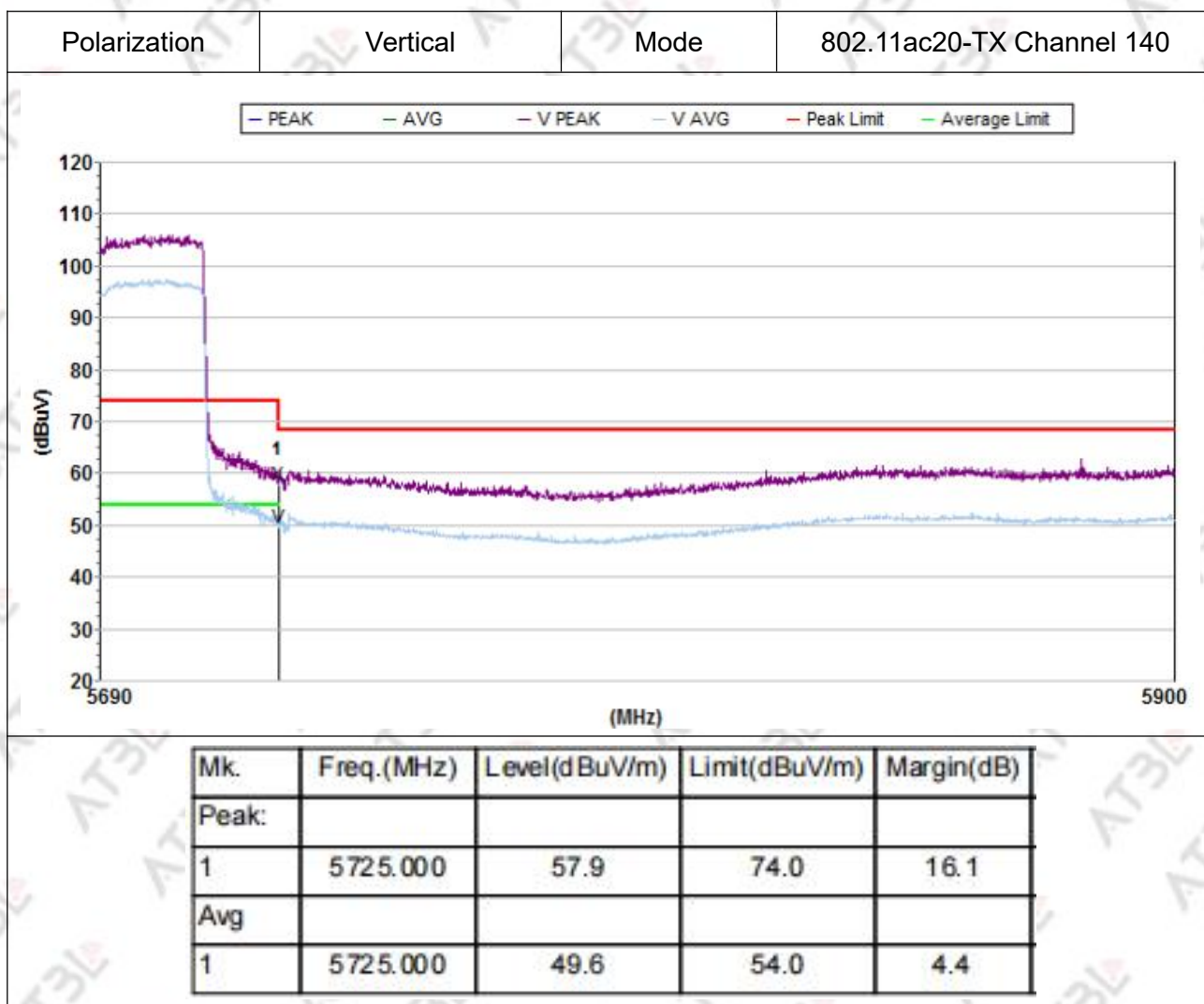
Horizontal

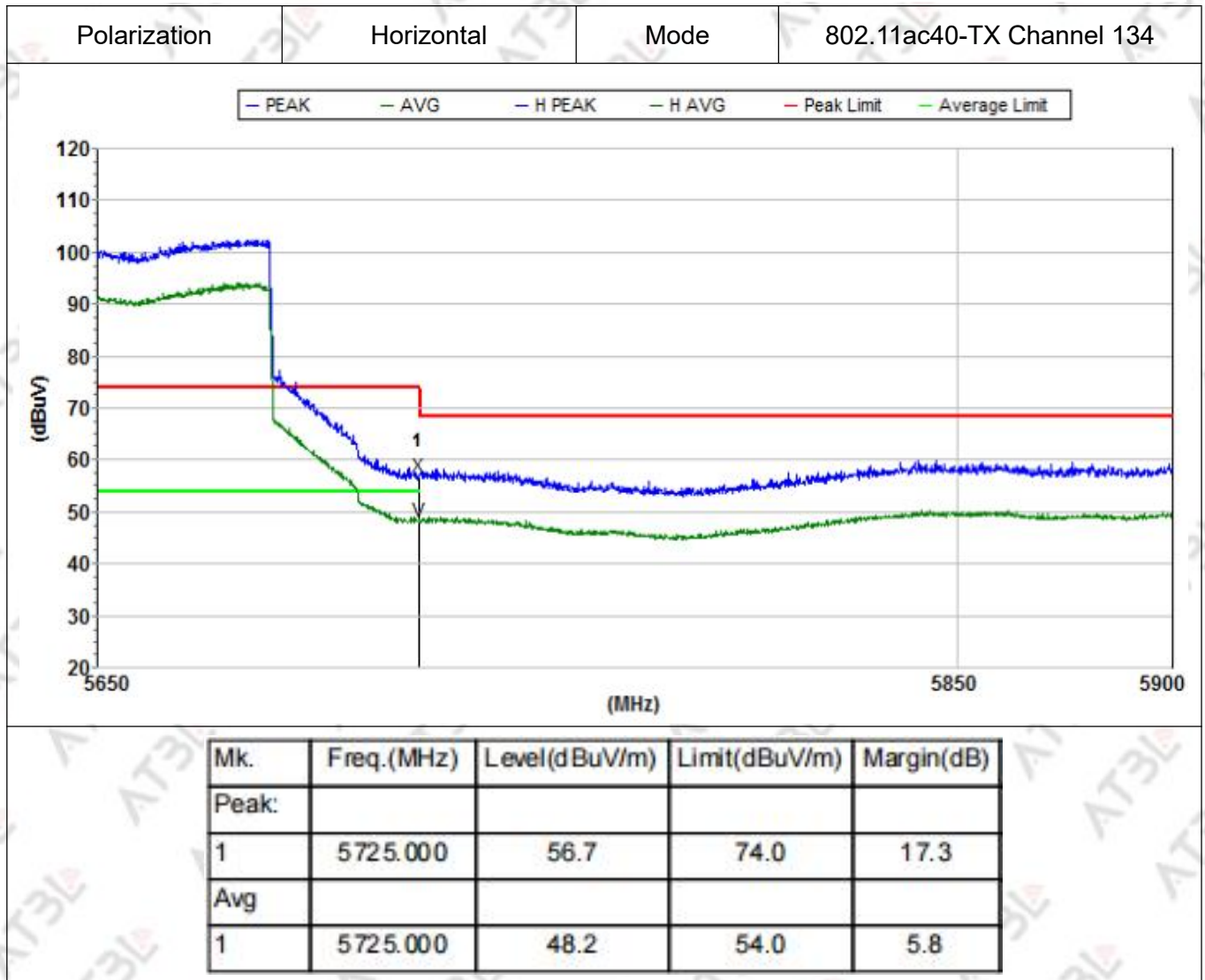
Mode

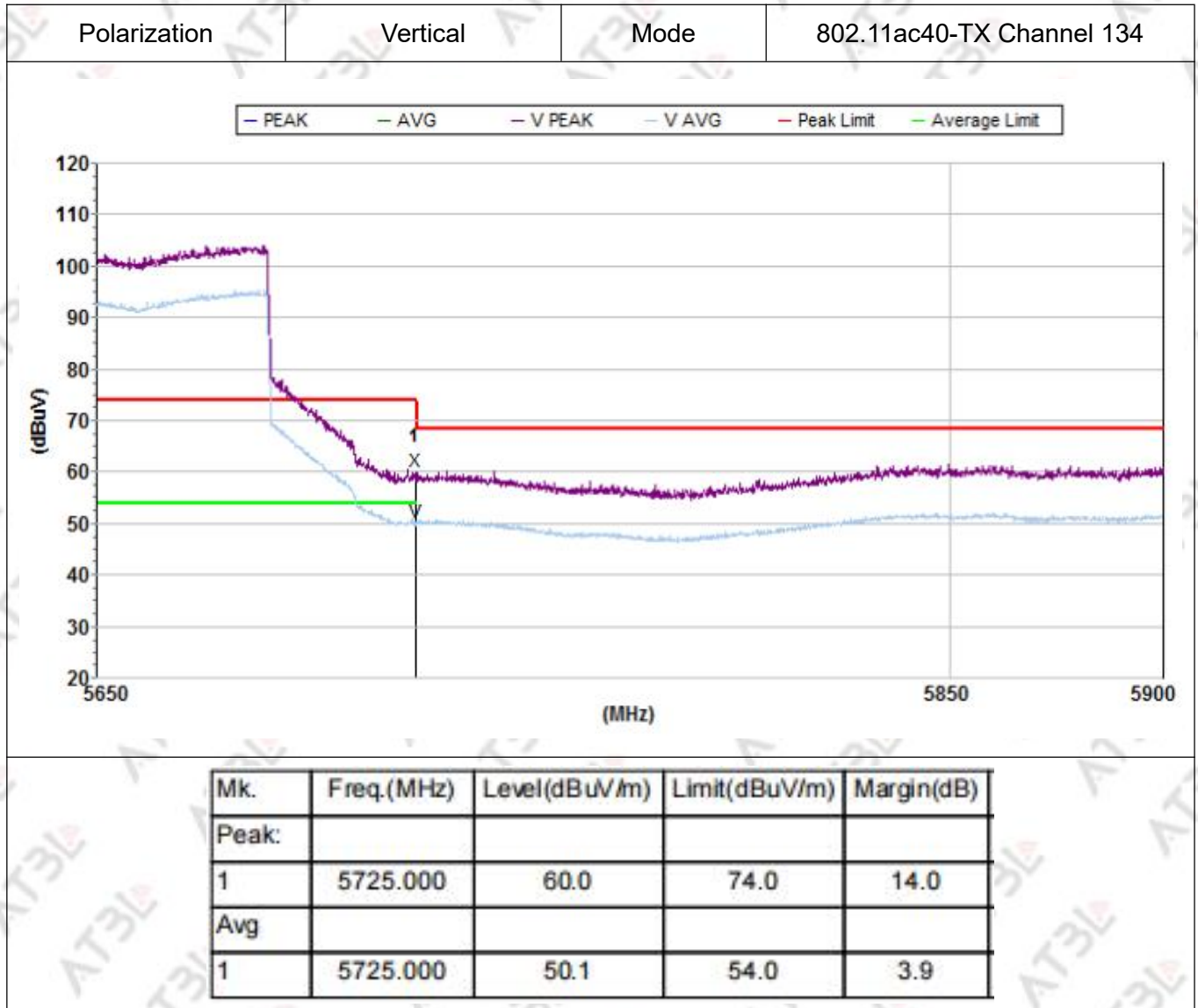
802.11ac20-TX Channel 140

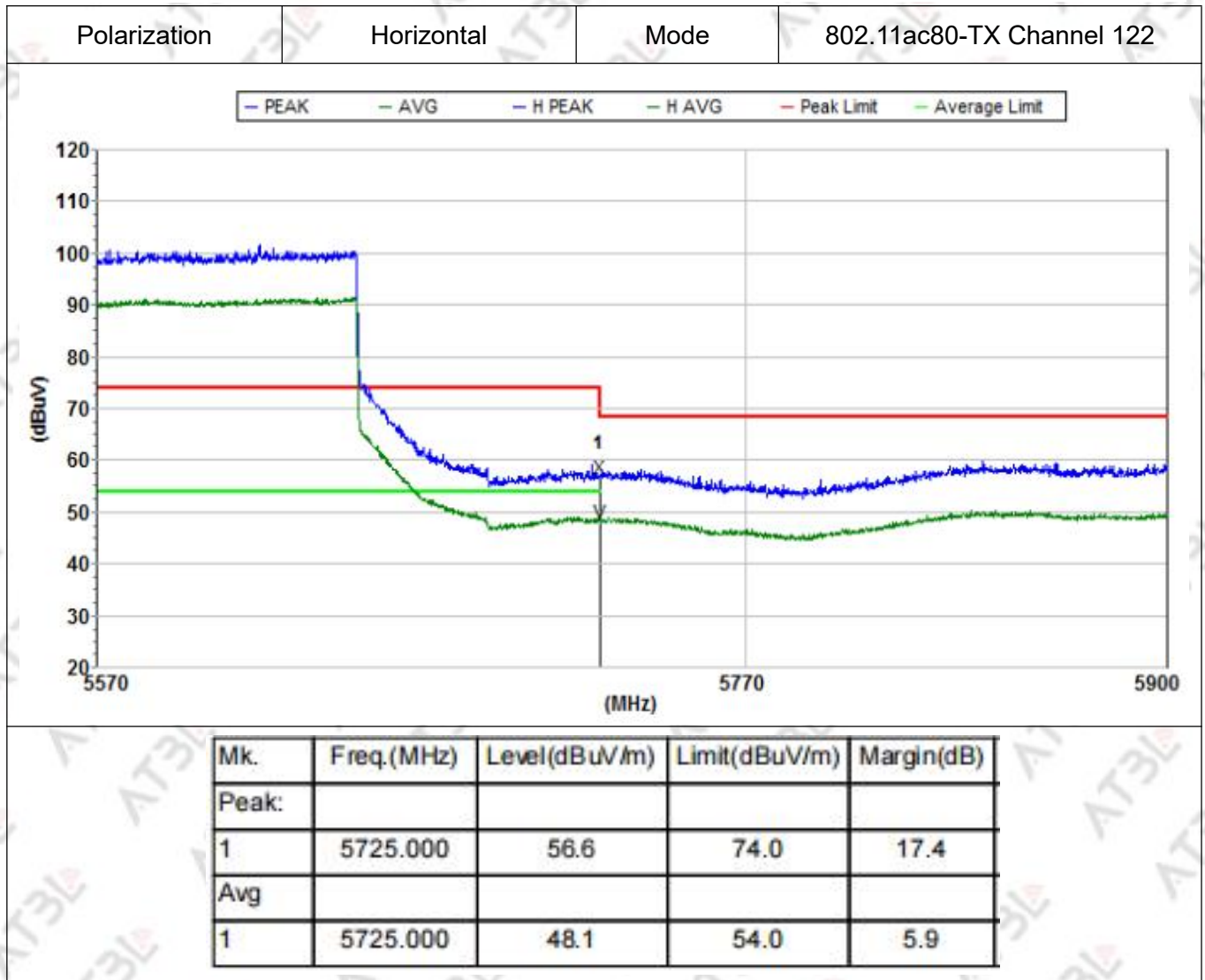


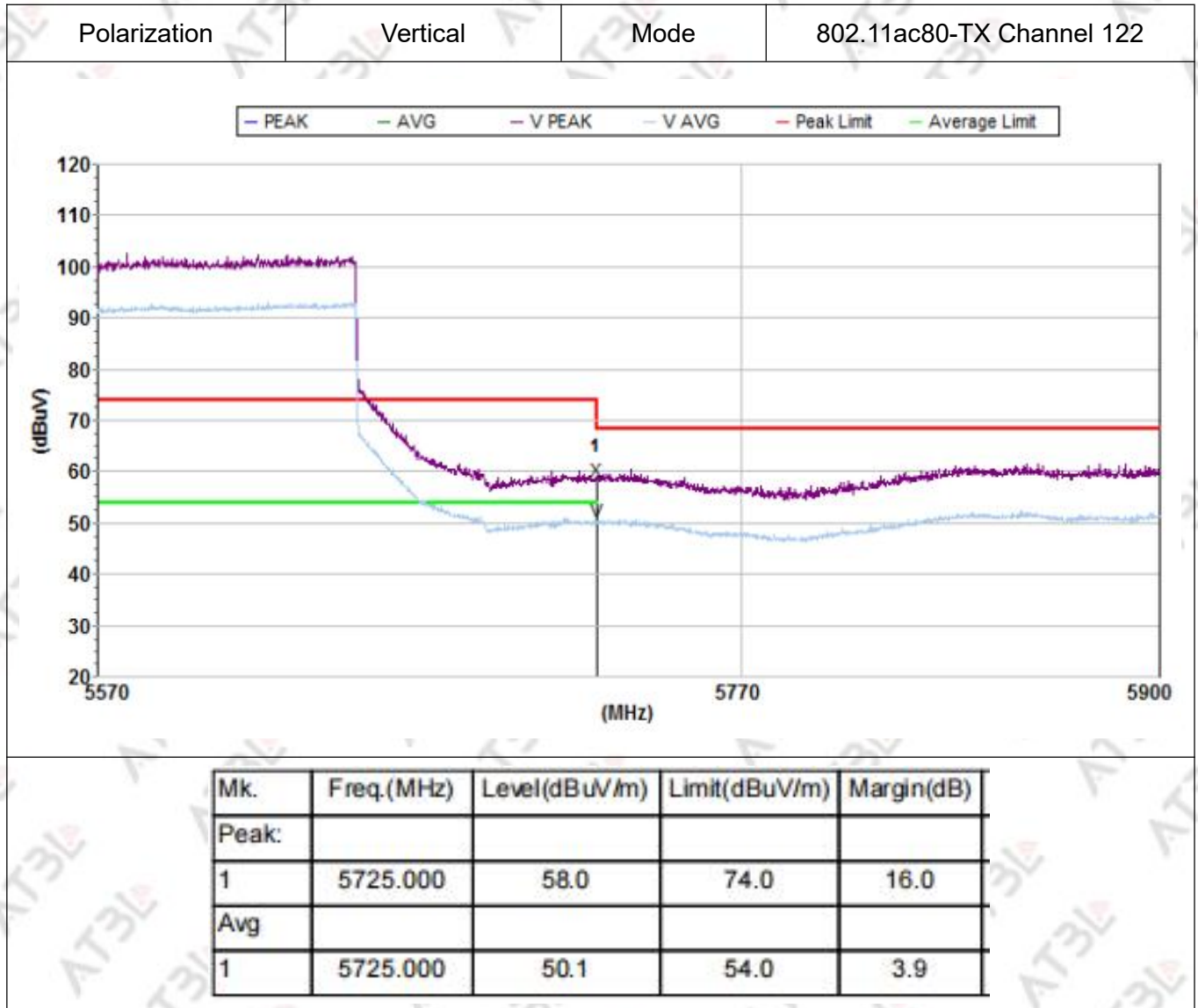
Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
Peak:				
1	5725.000	58.2	74.0	15.8
Avg				
1	5725.000	50.2	54.0	3.8







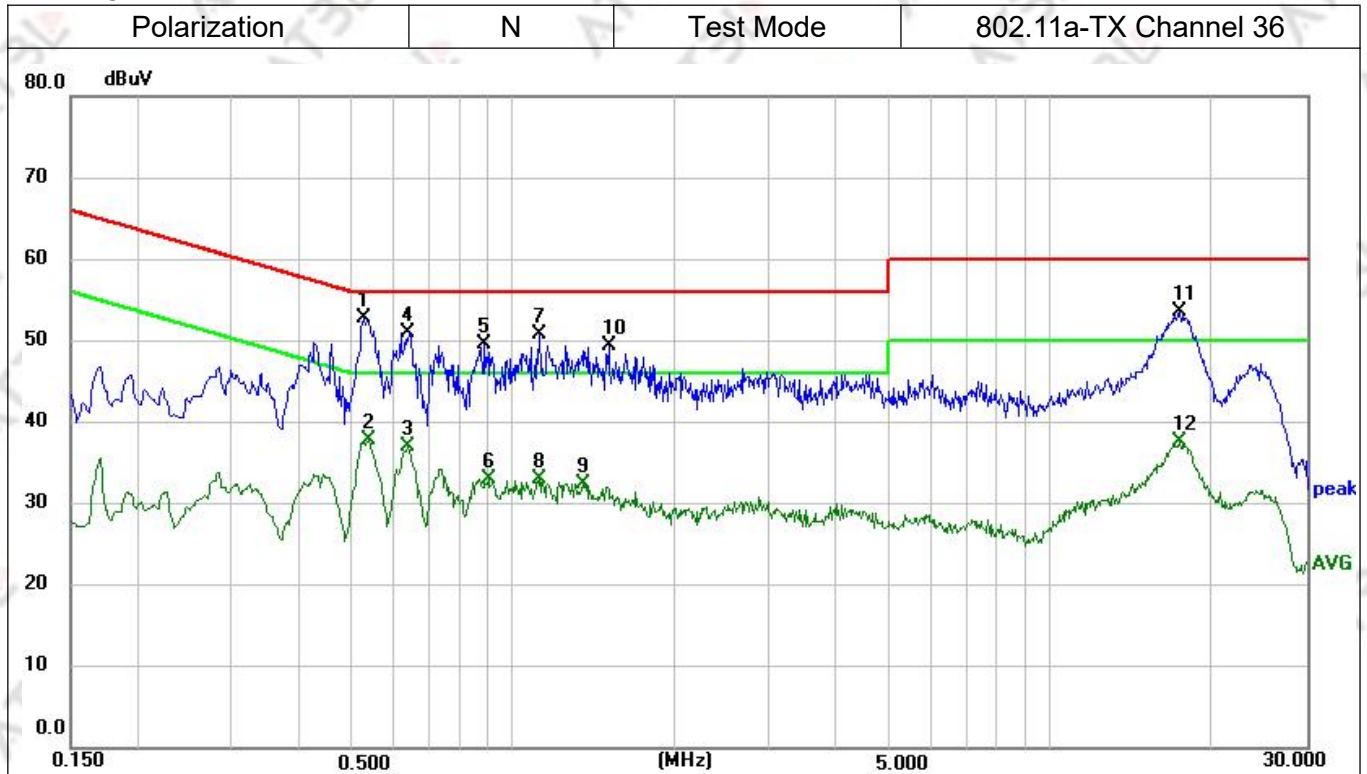




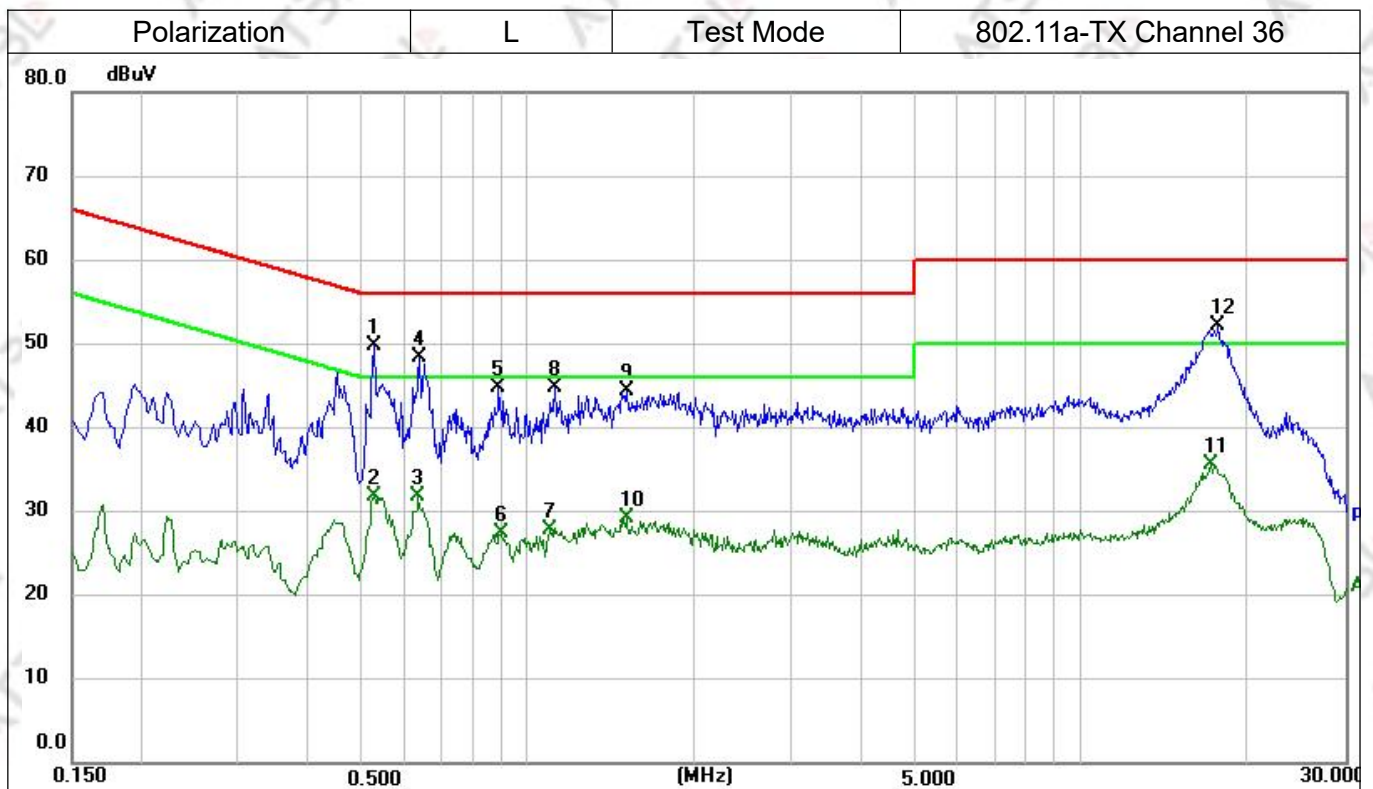
3.AC Power-Line Conducted Emission

Note:

- 1.All modes have been tested, only worst mode(802.11a-TX Channel 36) was recorded in the test report.
- 2.Emission Level = Reading Value + Correction Factor .
3. Correction Factor = Insertion loss + Cable loss.
4. The emission levels of other frequencies were less than 20dB margin against the limit.
5. Margin value = Emission level-Limit value.



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.5260	33.13	19.58	52.71	56.00	-3.29	peak
2	0.5380	18.24	19.59	37.83	46.00	-8.17	AVG
3	0.6380	17.30	19.69	36.99	46.00	-9.01	AVG
4	0.6419	31.38	19.69	51.07	56.00	-4.93	peak
5	0.8860	29.76	19.75	49.51	56.00	-6.49	peak
6	0.9020	13.34	19.75	33.09	46.00	-12.91	AVG
7	1.1180	30.92	19.80	50.72	56.00	-5.28	peak
8	1.1180	13.25	19.80	33.05	46.00	-12.95	AVG
9	1.3500	12.63	19.86	32.49	46.00	-13.51	AVG
10	1.5060	29.48	19.91	49.39	56.00	-6.61	peak
11	17.4020	31.23	22.36	53.59	60.00	-6.41	peak
12	17.4020	15.25	22.36	37.61	50.00	-12.39	AVG



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.5260	29.84	19.86	49.70	56.00	-6.30	peak
2	0.5260	11.93	19.86	31.79	46.00	-14.21	AVG
3	0.6340	11.96	19.92	31.88	46.00	-14.12	AVG
4	0.6380	28.48	19.92	48.40	56.00	-7.60	peak
5	0.8860	24.94	19.83	44.77	56.00	-11.23	peak
6	0.8980	7.61	19.82	27.43	46.00	-18.57	AVG
7	1.0980	7.98	19.80	27.78	46.00	-18.22	AVG
8	1.1180	25.00	19.81	44.81	56.00	-11.19	peak
9	1.5100	24.48	19.96	44.44	56.00	-11.56	peak
10	1.5100	9.24	19.96	29.20	46.00	-16.80	AVG
11	17.1380	12.75	22.77	35.52	50.00	-14.48	AVG
12	17.6740	29.17	22.95	52.12	60.00	-7.88	peak

*****END*****