

Appendix C of data

C1.Maximum Peak conducted output power

Test Result

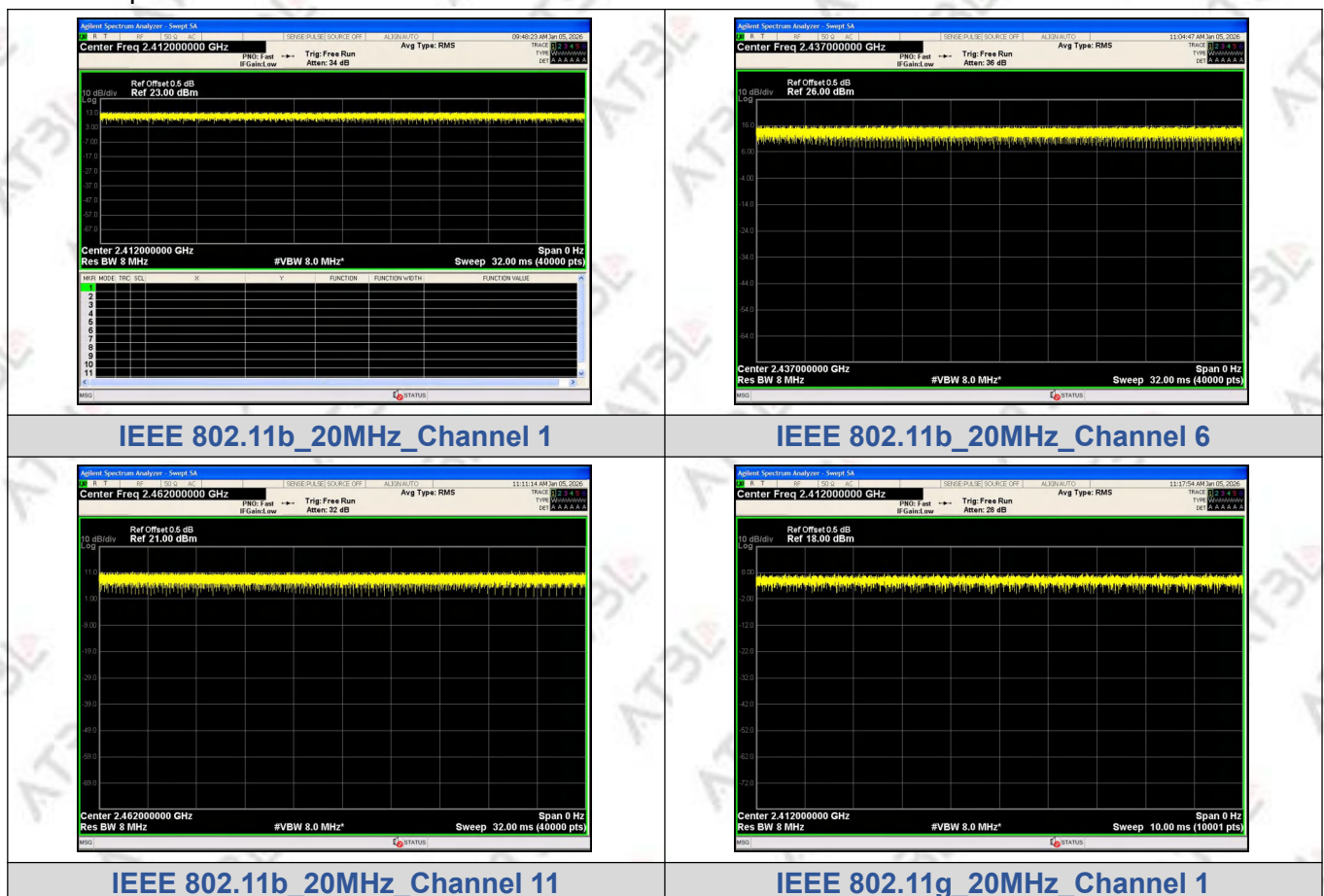
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	15.38	≤30	PASS
	6	15.68	≤30	PASS
	11	15.67	≤30	PASS
IEEE 802.11g	1	15.65	≤30	PASS
	6	15.81	≤30	PASS
	11	15.82	≤30	PASS
IEEE 802.11n_20	1	15.46	≤30	PASS
	6	15.60	≤30	PASS
	11	15.93	≤30	PASS
IEEE 802.11n_40	3	15.13	≤30	PASS
	6	15.36	≤30	PASS
	9	15.31	≤30	PASS

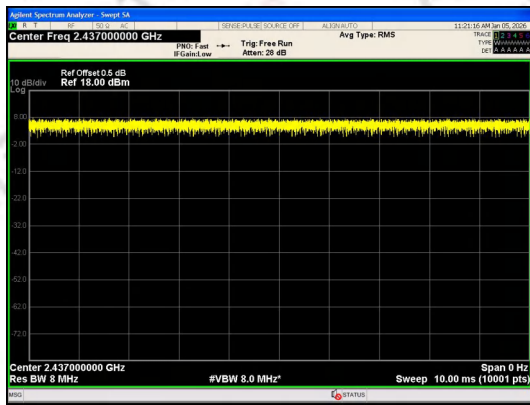
C2.Duty Cycle

Test Result

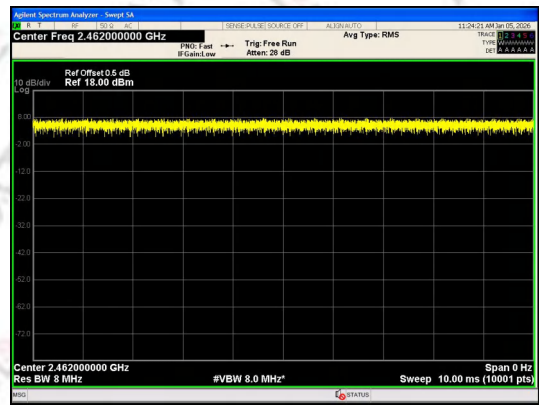
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	1	1	1	32.000	32.000	100	1	0.0
		6		32.000	32.000	100	1	0.0
		11		32.000	32.000	100	1	0.0
IEEE 802.11g	6	1		10.000	10.000	100	1	0.0
		6		10.000	10.000	100	1	0.0
		11		10.000	10.000	100	1	0.0
IEEE 802.11n_20	MCS 0	1		10.000	10.000	100	1	0.0
		6		10.000	10.000	100	1	0.0
		11		10.000	10.000	100	1	0.0
IEEE 802.11n_40		3	10.000	10.000	100	1	0.0	
		6	10.000	10.000	100	1	0.0	
		9	10.000	10.000	100	1	0.0	

Test Graphs

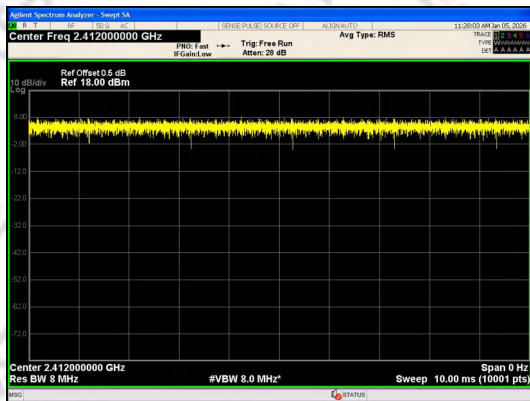




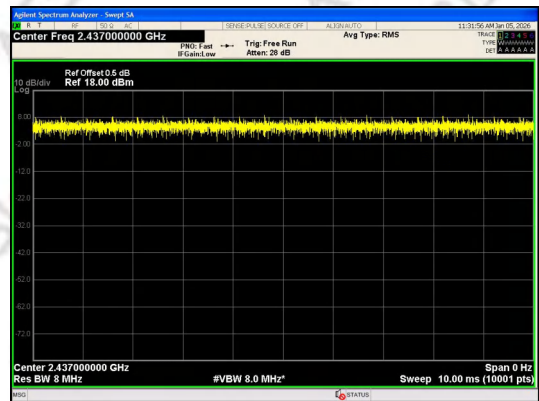
IEEE 802.11g_20MHz_Channel 6



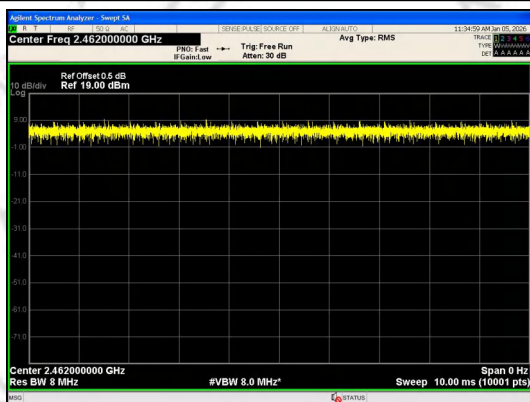
IEEE 802.11g_20MHz_Channel 11



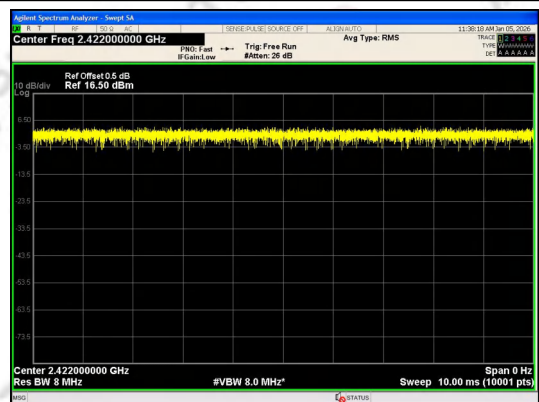
IEEE 802.11n_20MHz_Channel 1



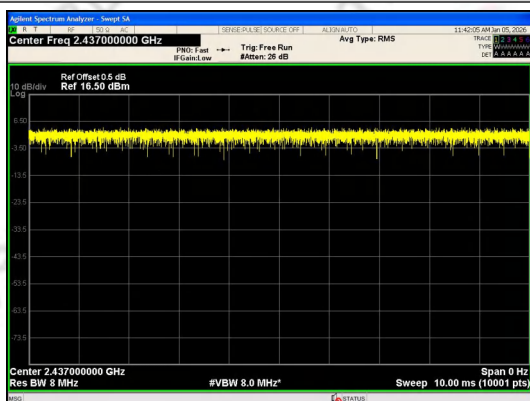
IEEE 802.11n_20MHz_Channel 6



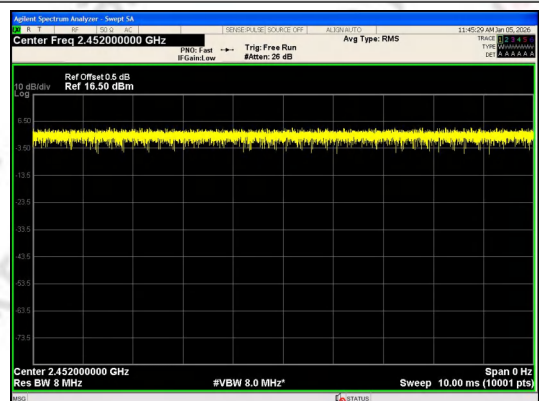
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



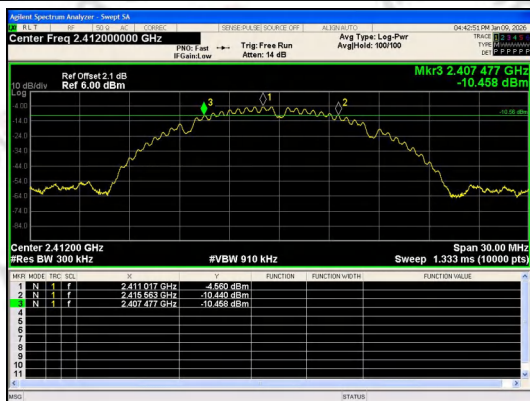
IEEE 802.11n_40MHz_Channel 9

C3.6dB Bandwidth

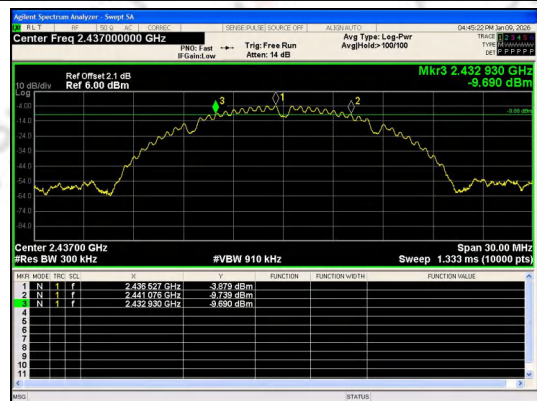
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.080	≥0.5	PASS
	6		2437	8.150		PASS
	11		2462	8.540		PASS
IEEE 802.11g	1		2412	15.38		PASS
	6		2437	17.31		PASS
	11		2462	16.51		PASS
IEEE 802.11n_20	1		2412	15.23		PASS
	6		2437	17.23		PASS
	11		2462	16.29		PASS
IEEE 802.11n_40	3		2422	36.03		PASS
	6		2437	35.14		PASS
	9		2452	31.30		PASS

Test Graphs



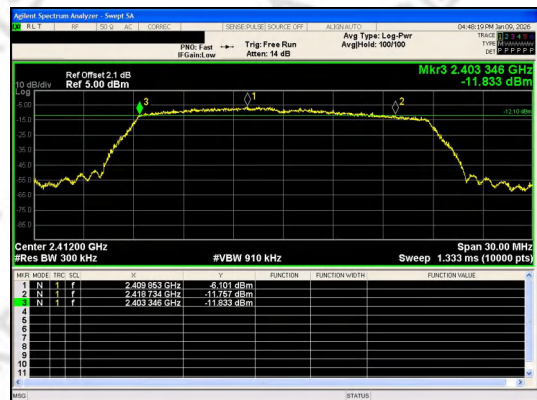
IEEE 802.11b_Channel 1_20MHz_Antenna 0



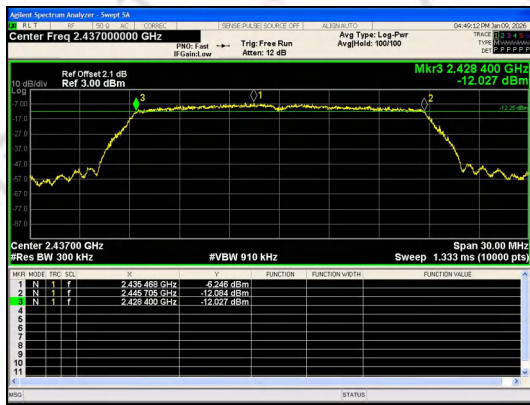
IEEE 802.11b_Channel 6_20MHz_Antenna 0



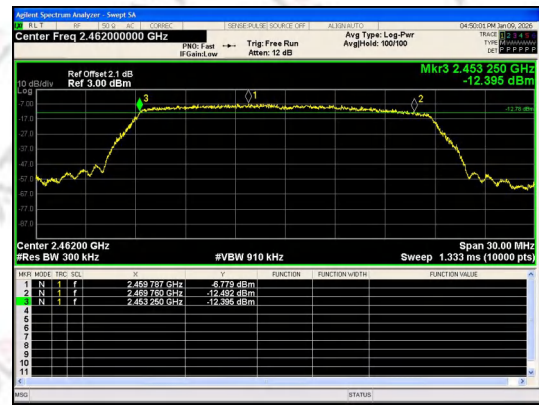
IEEE 802.11b_Channel 11_20MHz_Antenna 0



IEEE 802.11g_Channel 1_20MHz_Antenna 0



IEEE 802.11g_Channel 6_20MHz_Antenna 0



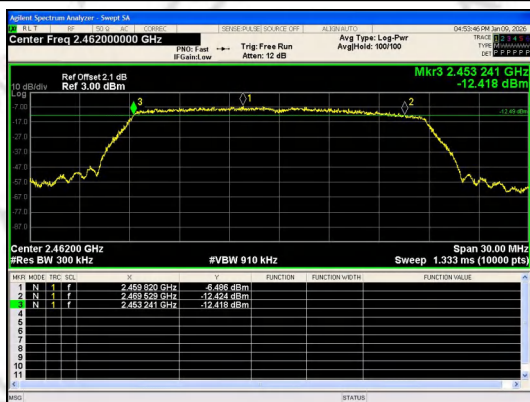
IEEE 802.11g_Channel 11_20MHz_Antenna 0



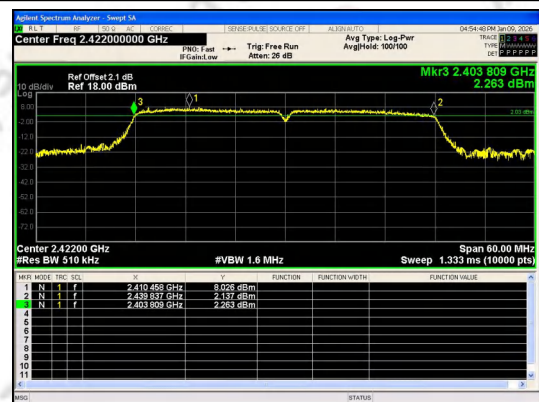
IEEE 802.11n_Channel 1_20MHz_Antenna 0



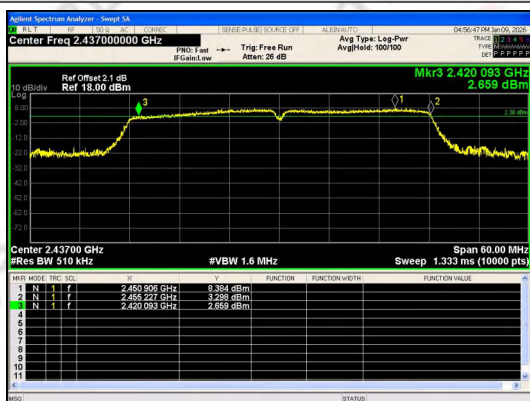
IEEE 802.11n_Channel 6_20MHz_Antenna 0



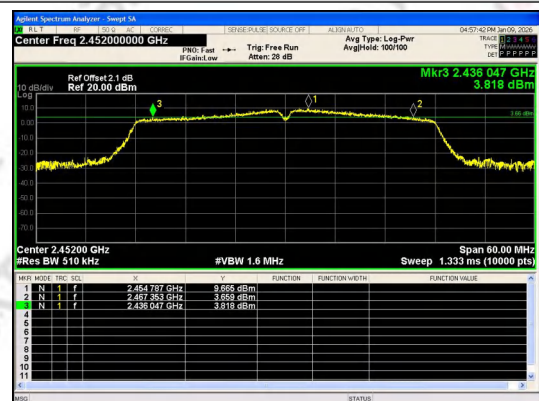
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

C4.Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-10.250	≤8	PASS
	6	-9.081		PASS
	11	-13.409		PASS
IEEE 802.11g	1	-18.899		PASS
	6	-18.704		PASS
	11	-18.696		PASS
IEEE 802.11n_20	1	-19.061		PASS
	6	-18.775		PASS
	11	-18.819		PASS
IEEE 802.11n_40	3	-20.443		PASS
	6	-20.472		PASS
	9	-20.452		PASS

Test Graphs



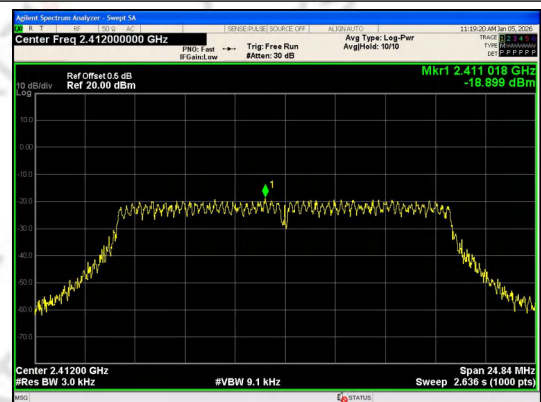
IEEE 802.11b_Channel 1_20MHz_Antenna 0



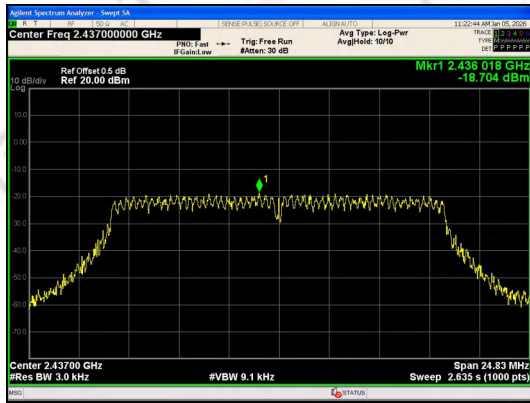
IEEE 802.11b_Channel 6_20MHz_Antenna 0



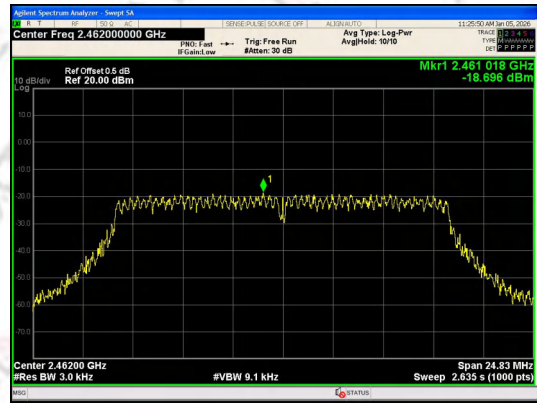
IEEE 802.11b_Channel 11_20MHz_Antenna 0



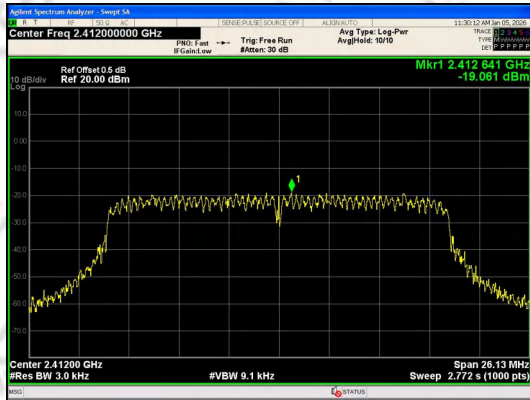
IEEE 802.11g_Channel 1_20MHz_Antenna 0



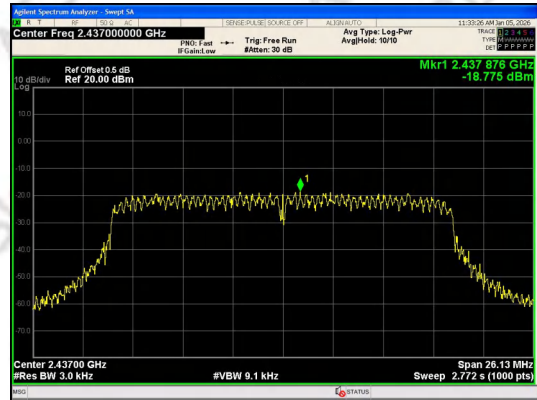
IEEE 802.11g_Channel 6_20MHz_Antenna 0



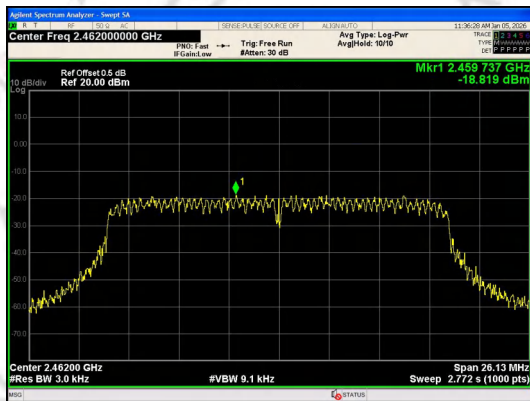
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

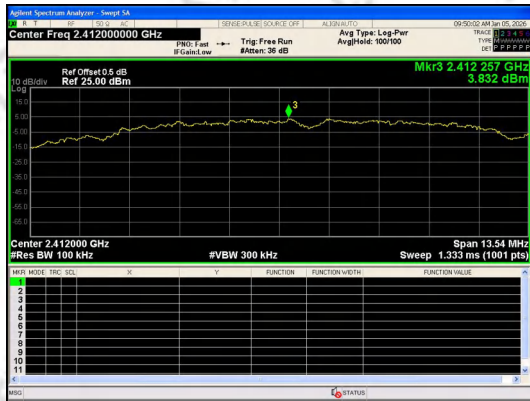
C5.Conducted Band Edge and Conducted Spurious Emission

Test Result

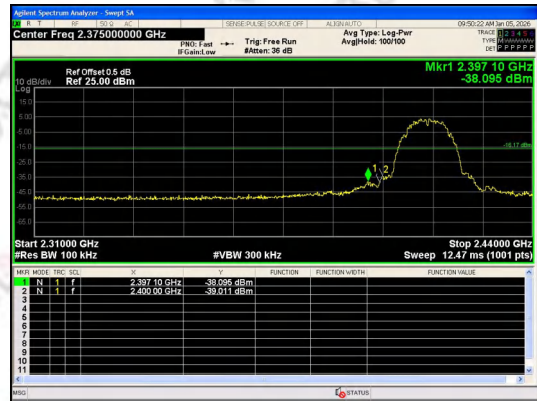
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2397.10	-38.094	-16.17	-21.924	PASS
			2400.00	-39.011	-16.17	-22.841	PASS
	6		24019.9	-38.682	-16.17	-22.512	PASS
			24092.3	-38.203	-14.32	-23.883	PASS
	11		2483.50	-48.003	-18.33	-29.673	PASS
			24077.4	-38.007	-18.33	-19.677	PASS
IEEE 802.11g	1		2400.00	-40.512	-24.2	-16.312	PASS
			23780.8	-38.522	-24.2	-14.322	PASS
	6		24672.9	-38.500	-24.03	-14.470	PASS
			2483.50	-47.081	-23.89	-23.191	PASS
	11		23705.9	-38.316	-23.89	-14.426	PASS
			2400.00	-41.423	-24.4	-17.023	PASS
IEEE 802.11n_20	1		23695.3	-38.447	-24.4	-14.047	PASS
			23693.4	-38.451	-23.68	-14.771	PASS
	6		2483.50	-46.676	-23.57	-23.106	PASS
			24188.5	-38.080	-23.57	-14.510	PASS
	11		2400.00	-41.532	-27.55	-13.982	PASS
			23679.7	-38.731	-27.55	-11.181	PASS
IEEE 802.11n_40	3		23705.9	-38.386	-27.45	-10.936	PASS
			2483.50	-47.104	-27.44	-19.664	PASS
	6		24419.4	-38.454	-27.44	-11.014	PASS
	9						
Note: input compensation coefficient (dB)= Cable Loss (dB)							

Note: input compensation coefficient (dB)= Cable Loss (dB)

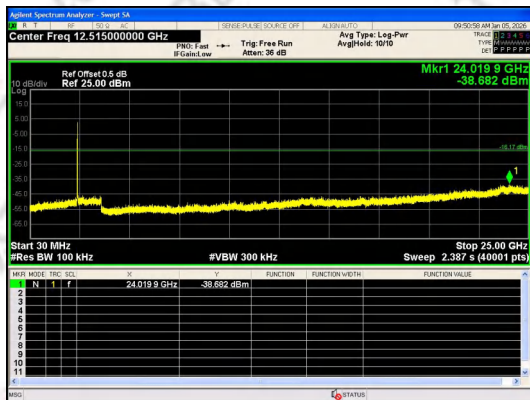
Test Graphs



In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



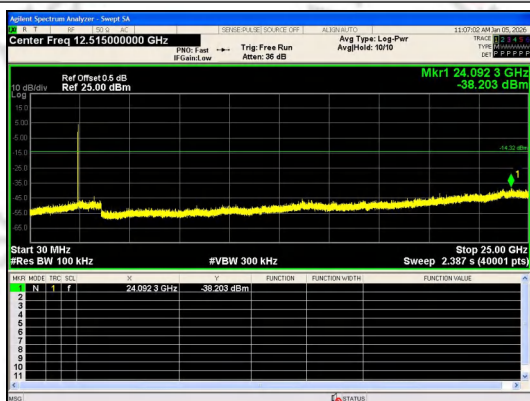
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



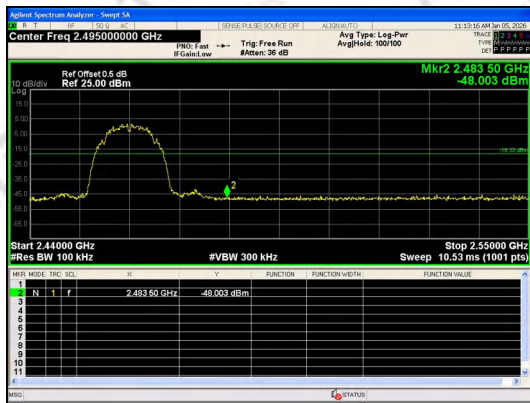
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



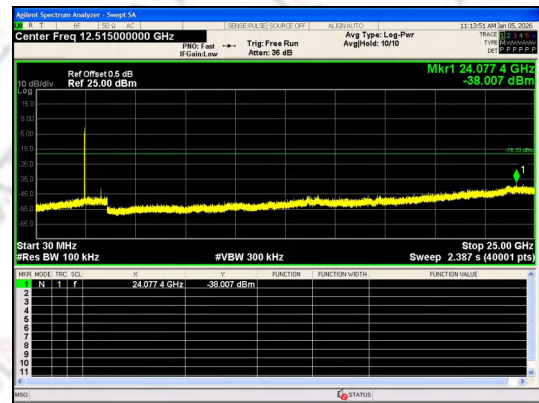
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



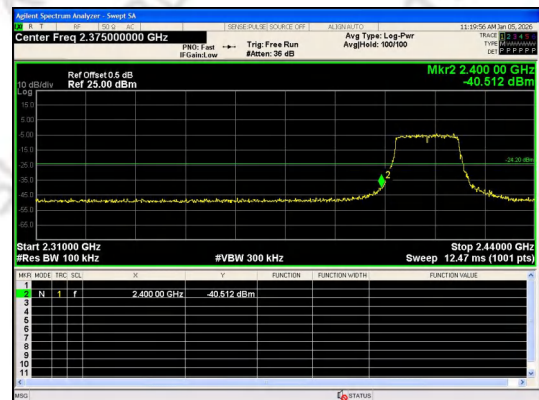
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



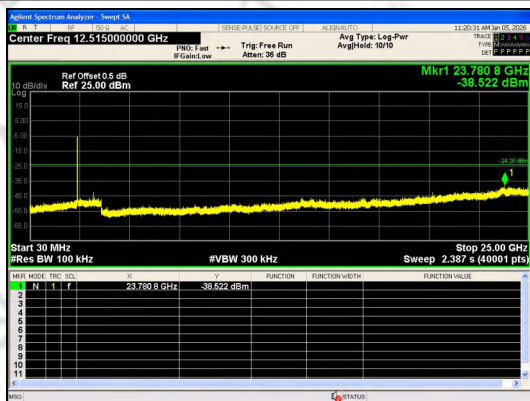
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



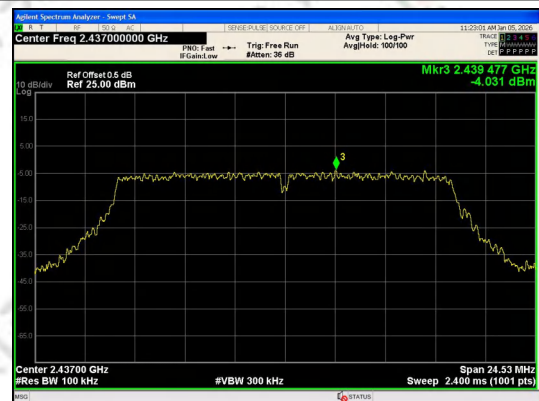
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



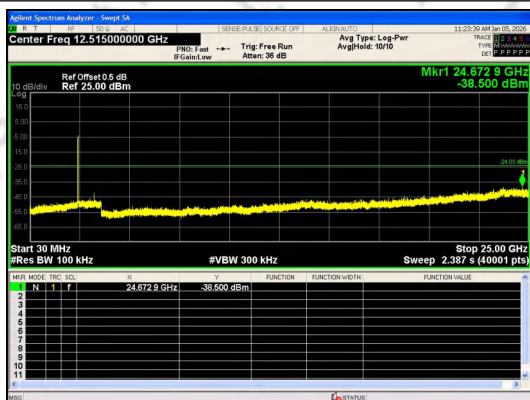
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



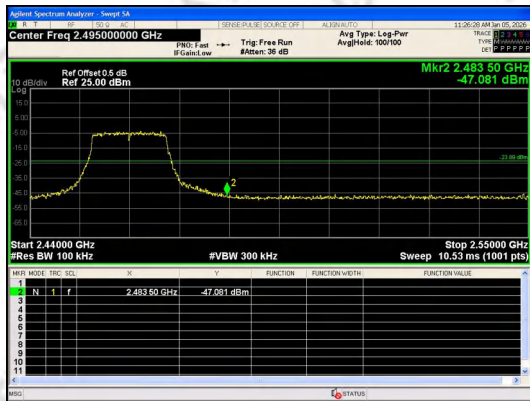
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



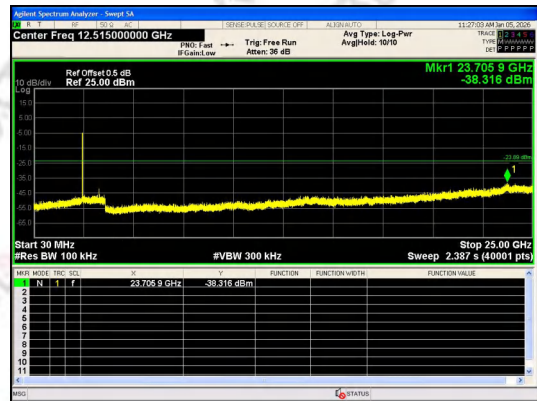
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



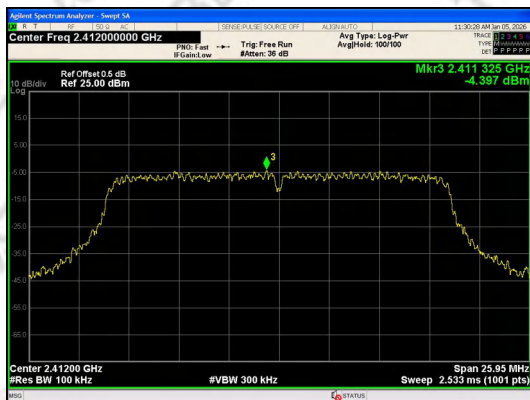
30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 6_20MHz_Antenna 0



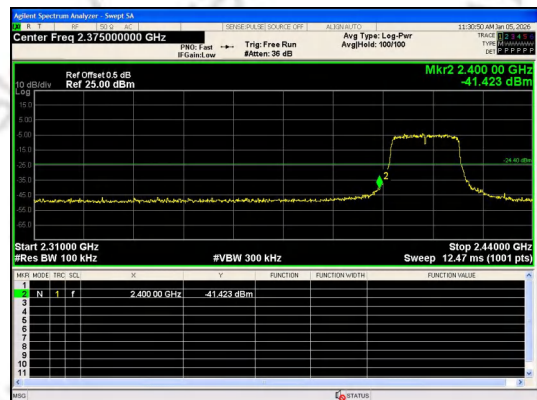
In-Band Reference Level IEEE 802.11g_Channel 11_20MHz_Antenna 0



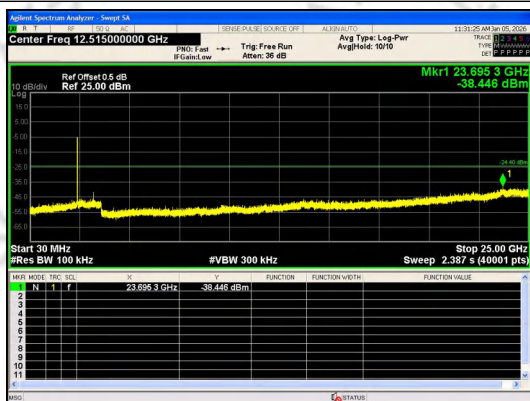
Out Of Band Emission IEEE 802.11g_Channel 11_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11g_Channel 11_20MHz_Antenna 0



In-Band Reference Level IEEE 802.11n_Channel 1_20MHz_Antenna 0

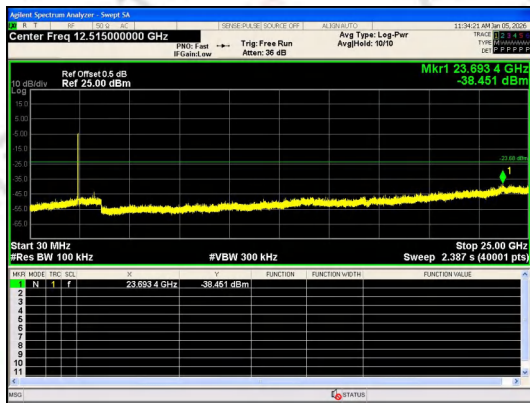


Out Of Band Emission IEEE 802.11n_Channel 1_20MHz_Antenna 0

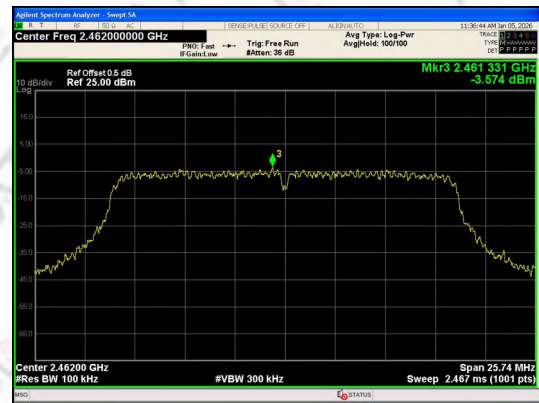


30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 1_20MHz_Antenna 0

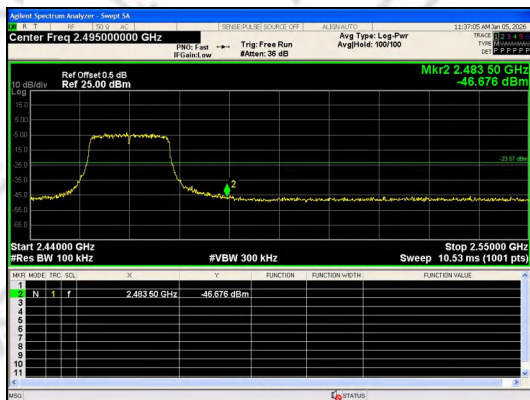
In-Band Reference Level IEEE 802.11n_Channel 6_20MHz_Antenna 0



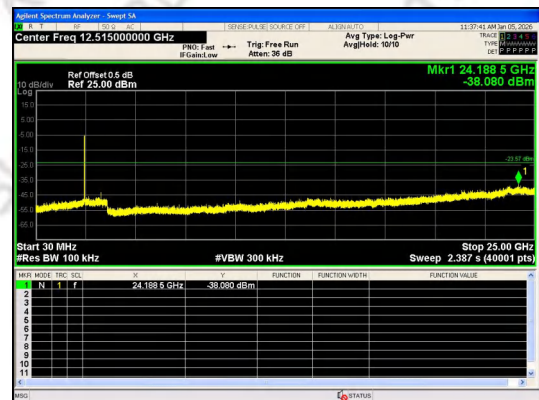
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



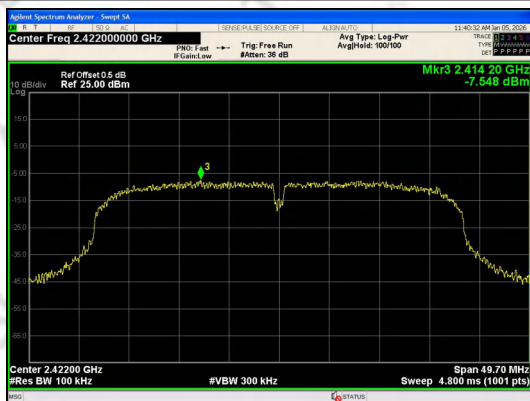
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



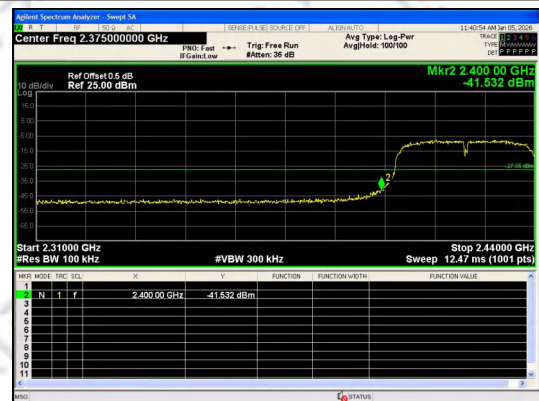
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



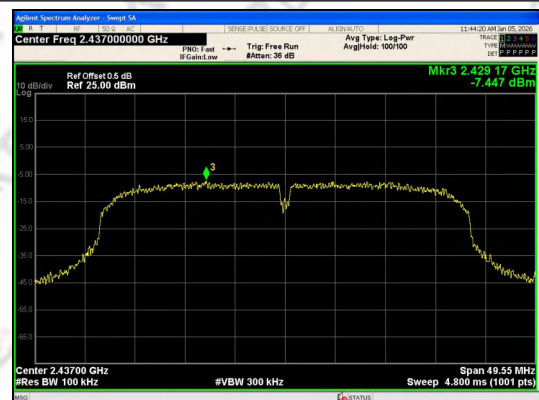
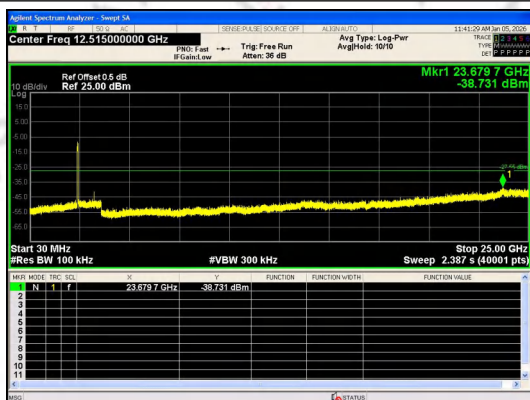
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



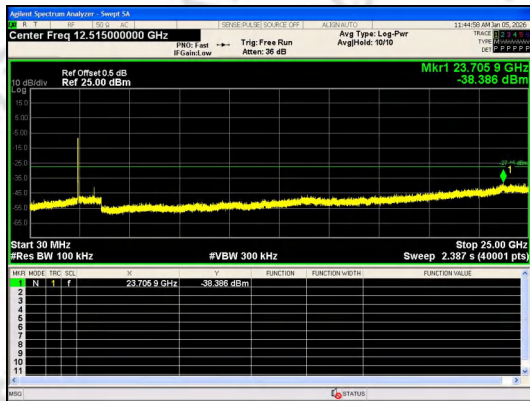
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



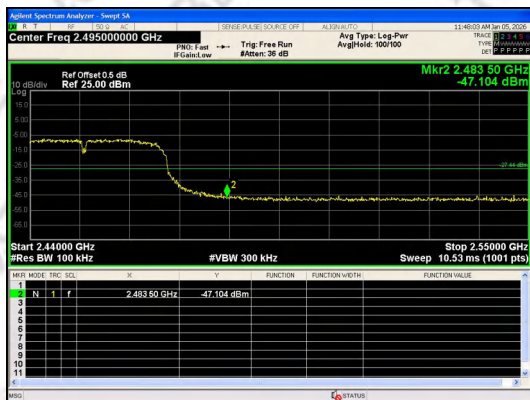
30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 3_40MHz_Antenna 0



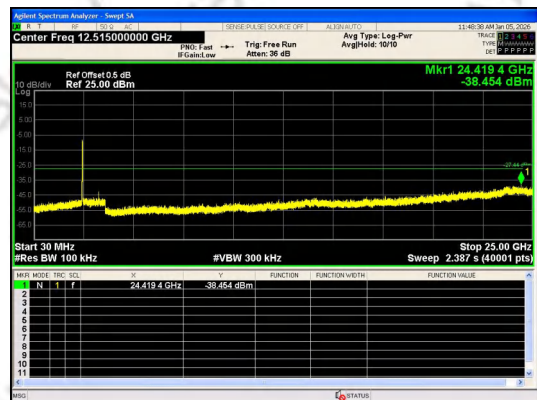
In-Band Reference Level IEEE 802.11n_Channel 6_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission IEEE 802.11n_Channel 9_40MHz_Antenna 0

30.0 MHz - 25000.0 MHz IEEE 802.11n_Channel 9_40MHz_Antenna 0

C6.Radiated Spurious Emission and Restricted Band

For 9 kHz ~ 30 MHz

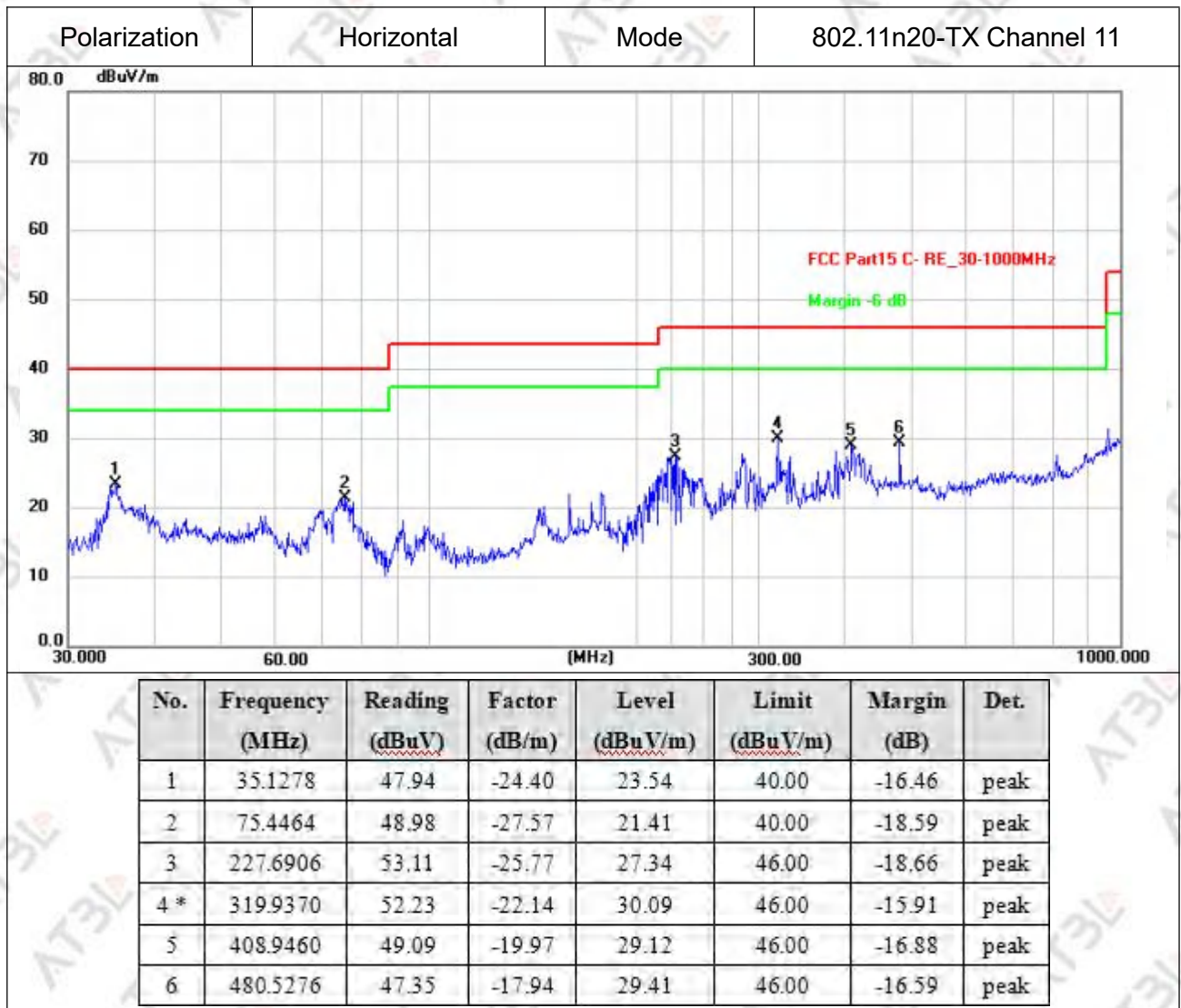
Note:

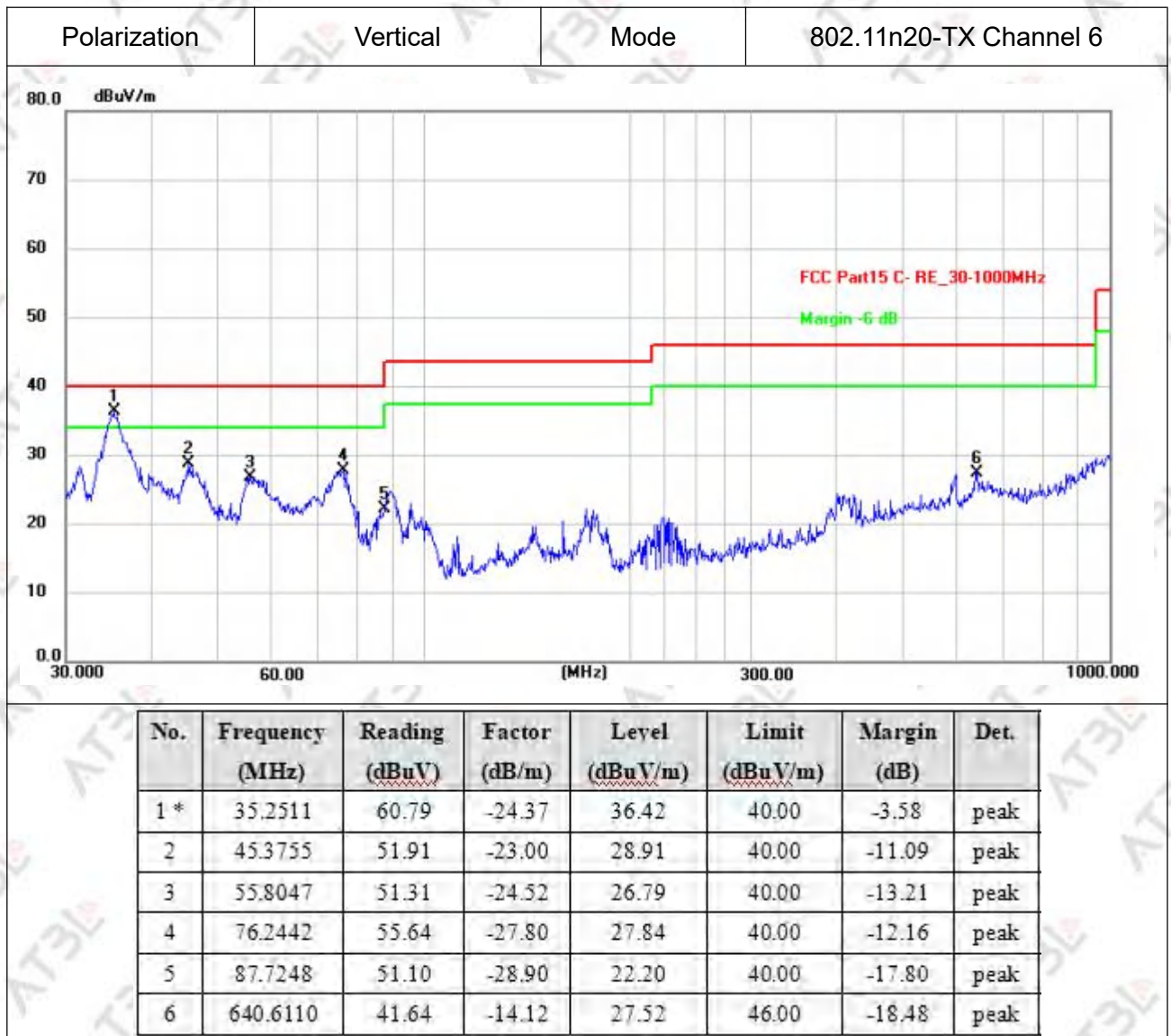
- 1.The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
- 2.The all data rate modes had been test, but only worse test data was recorded in the test report.

Below 1GHz:

Note:

- 1.All modes have been tested, only worst (802.11n20-TX Channel 11)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.

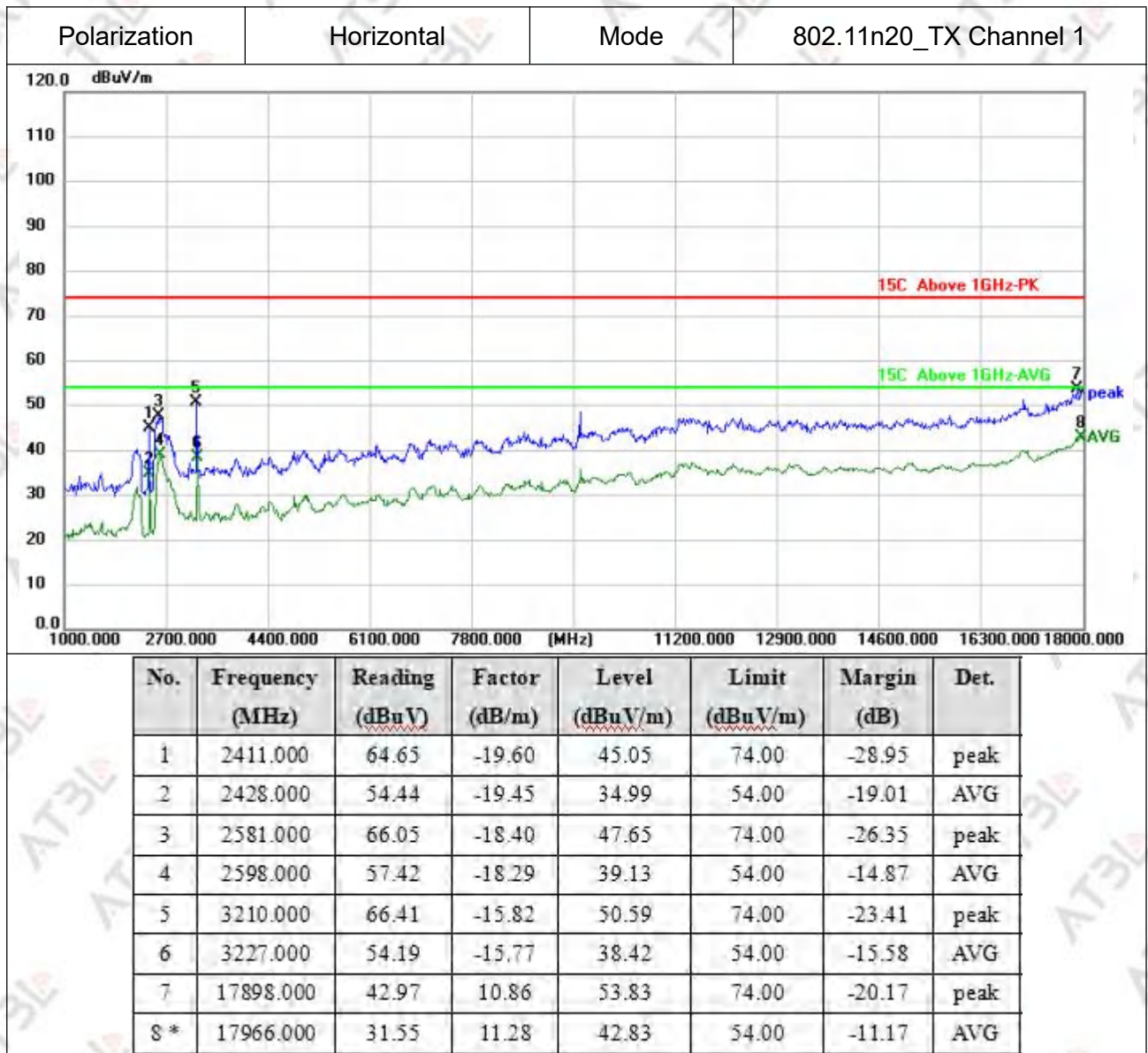


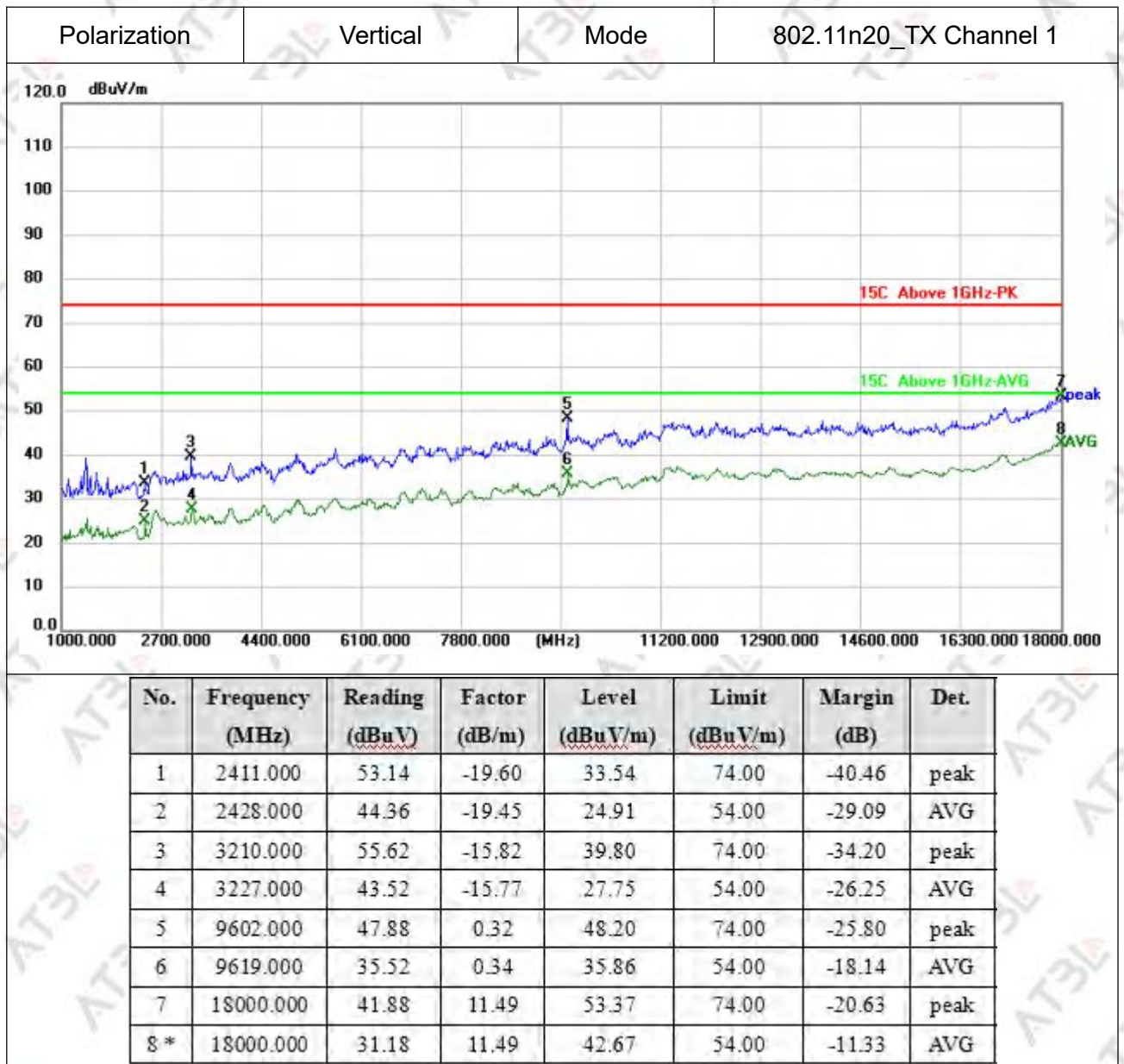


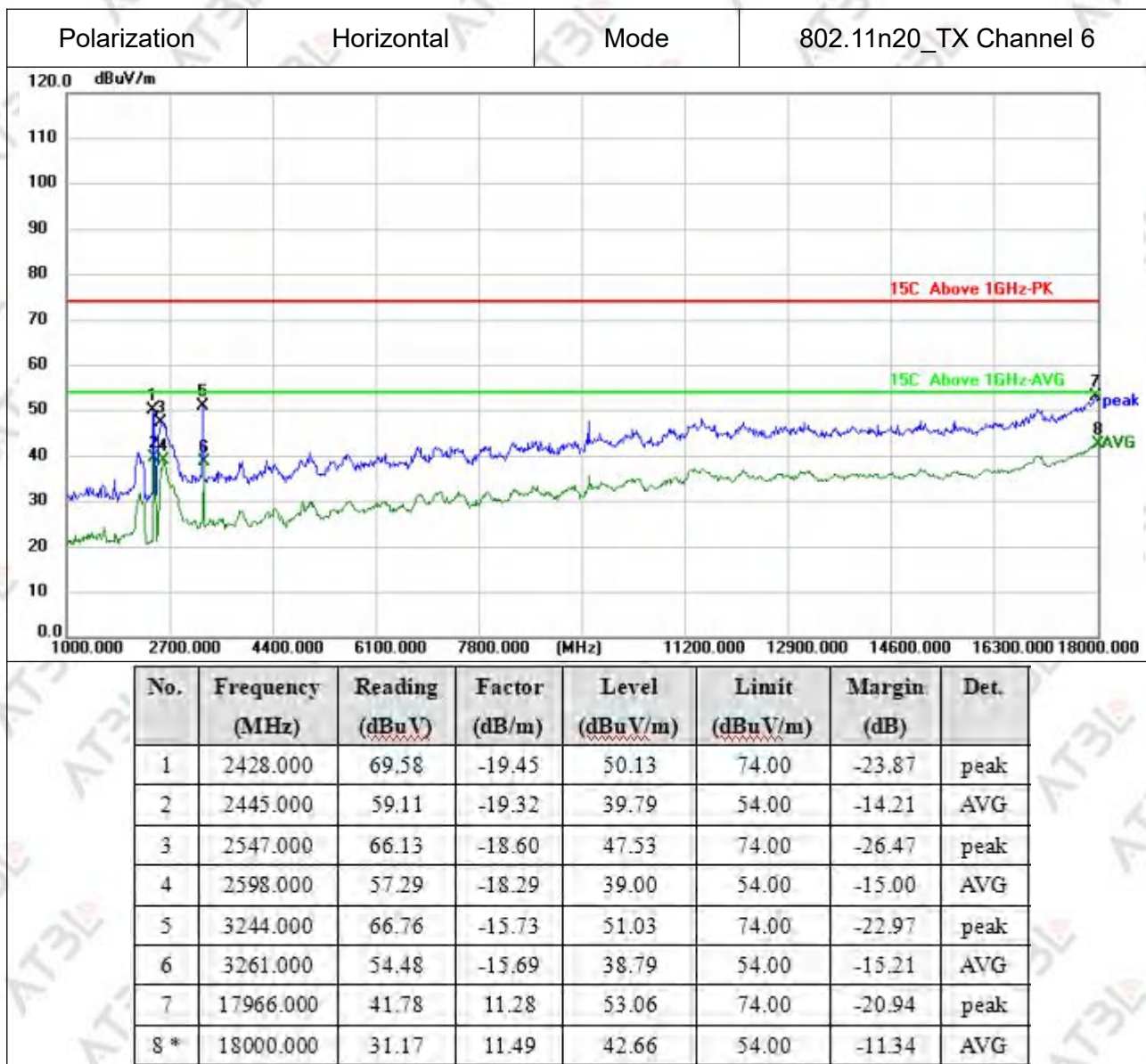
Above 1GHz:

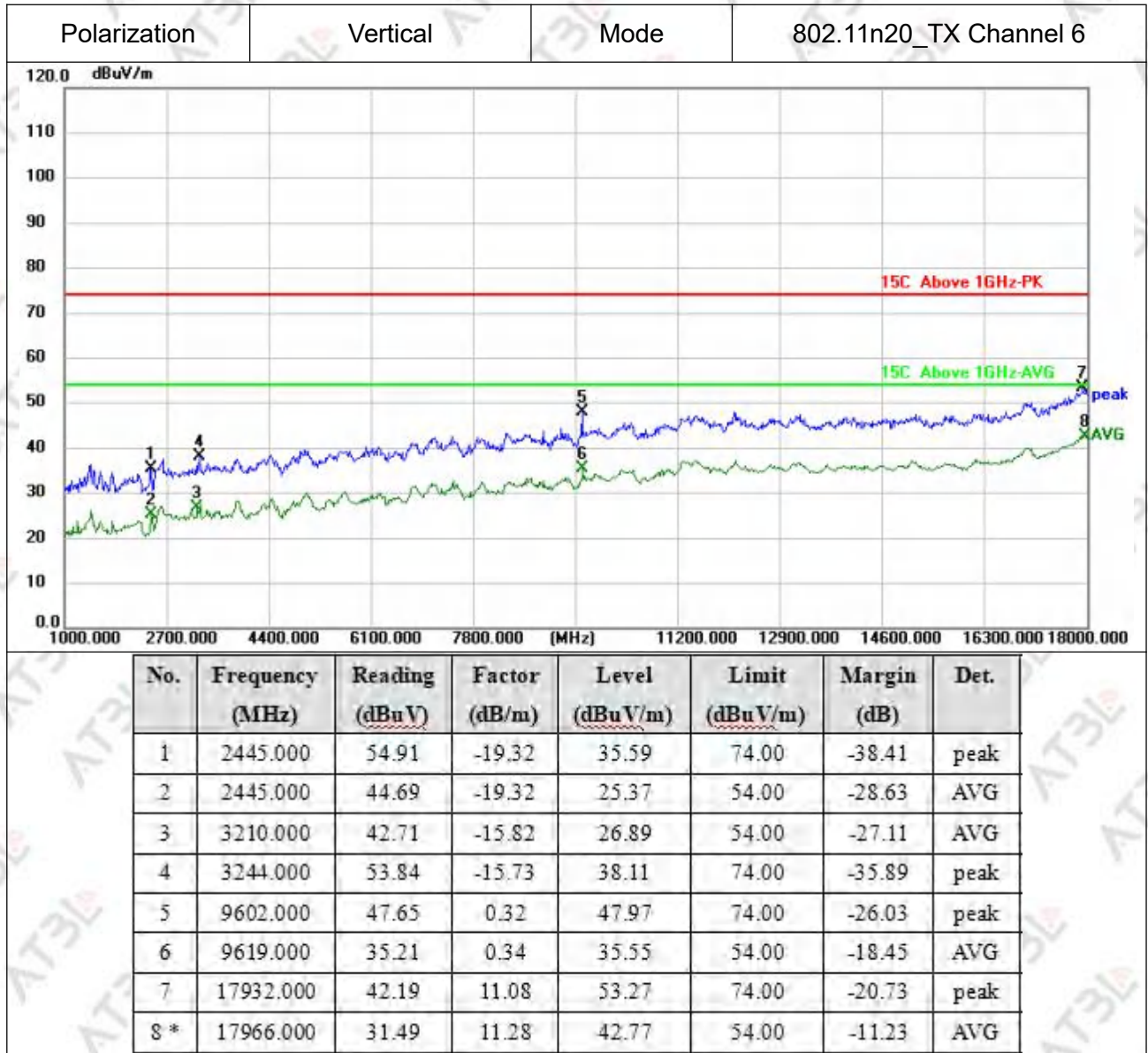
Note:

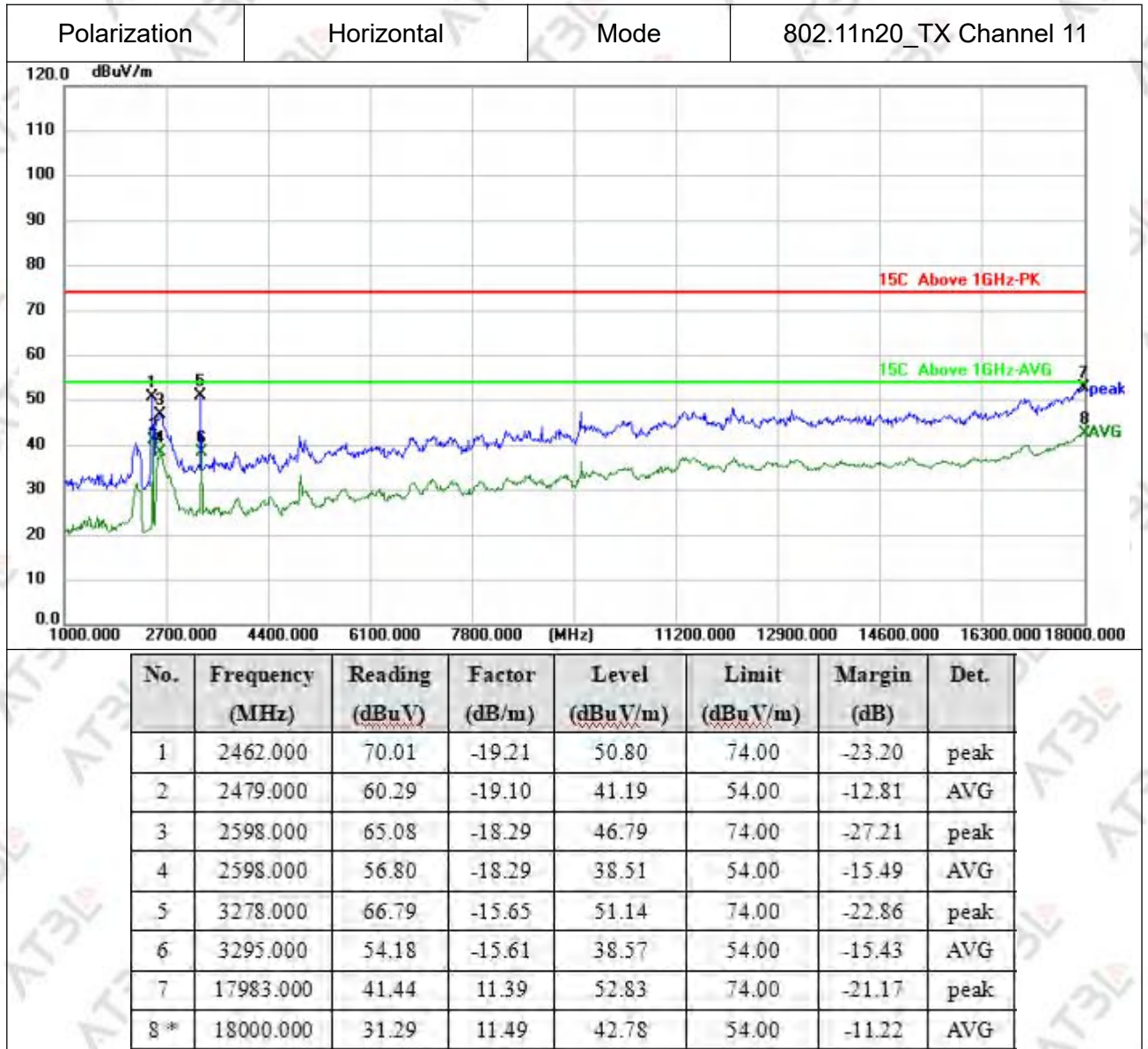
- 1.All modes have been tested, only worst (802.11n20)mode was recorded in the test report.
- 2.In frequency ranges 18 ~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less 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.

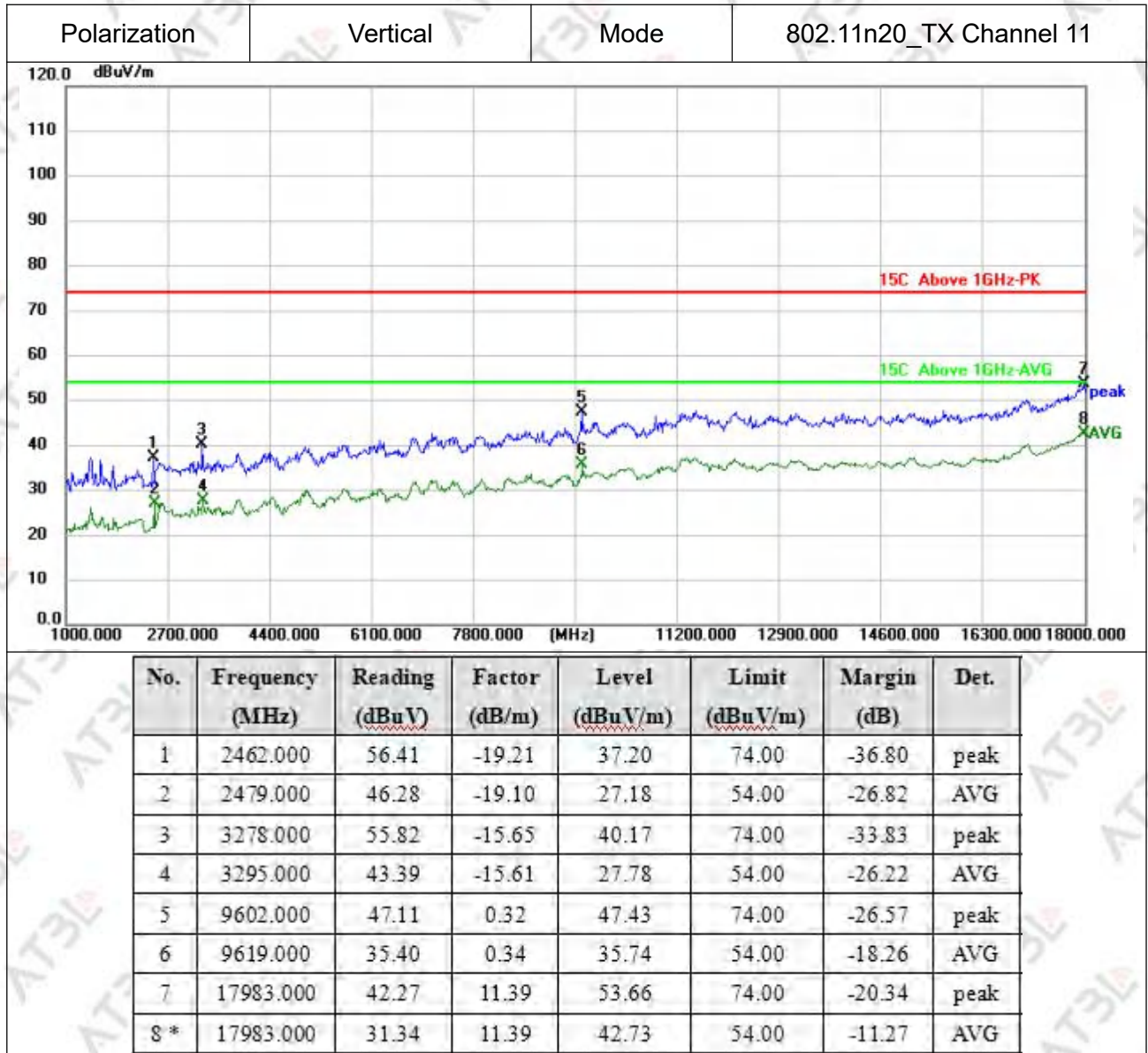




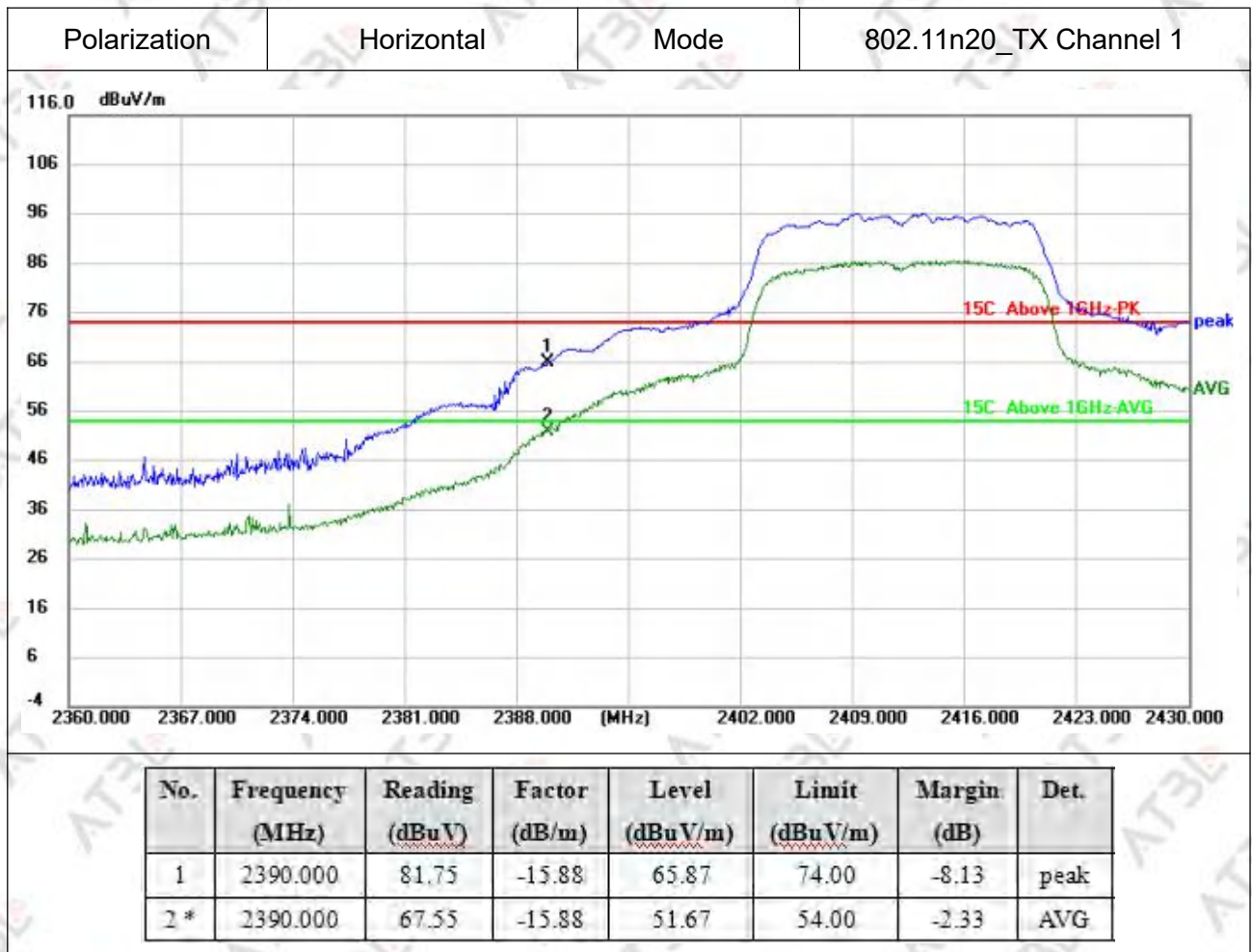


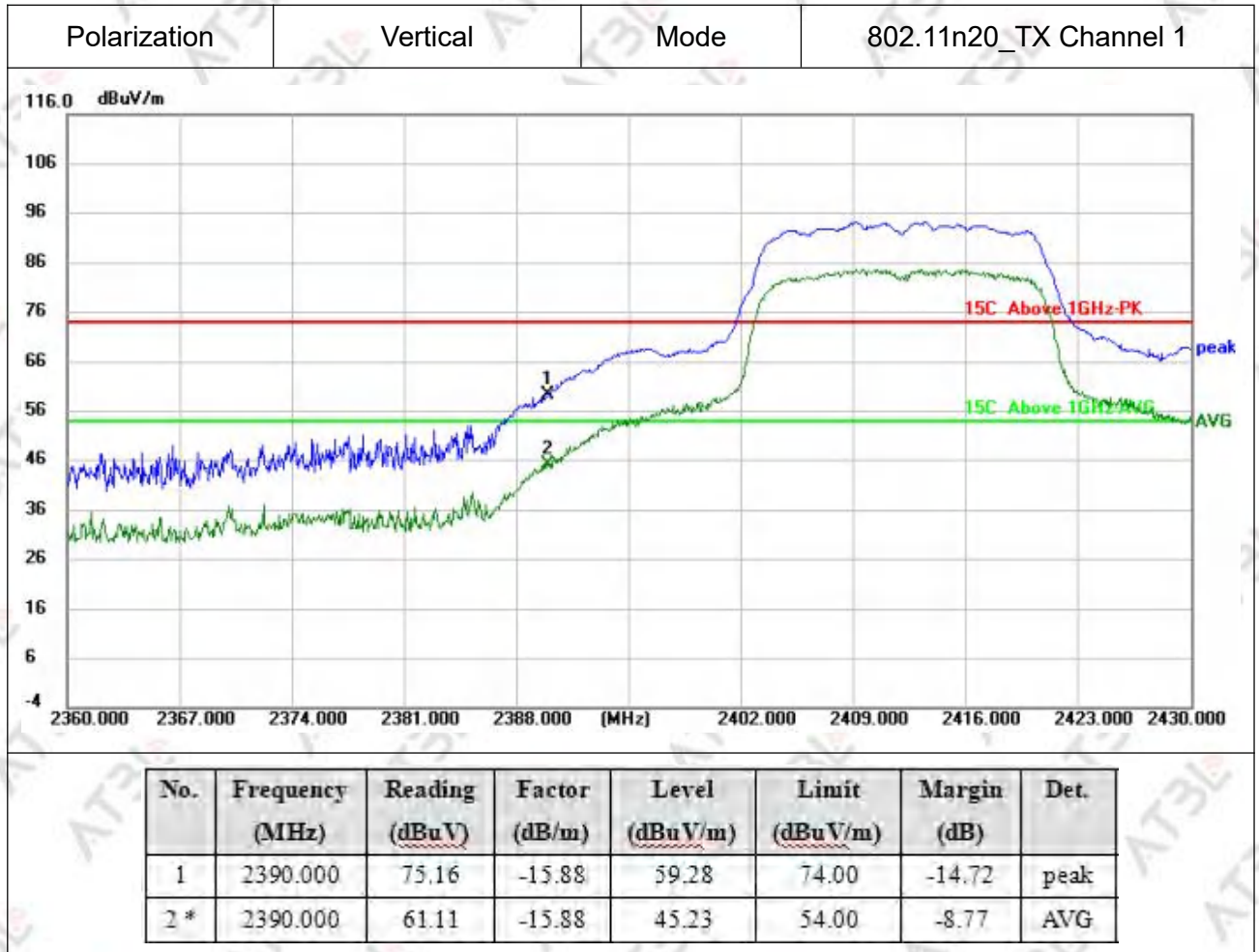




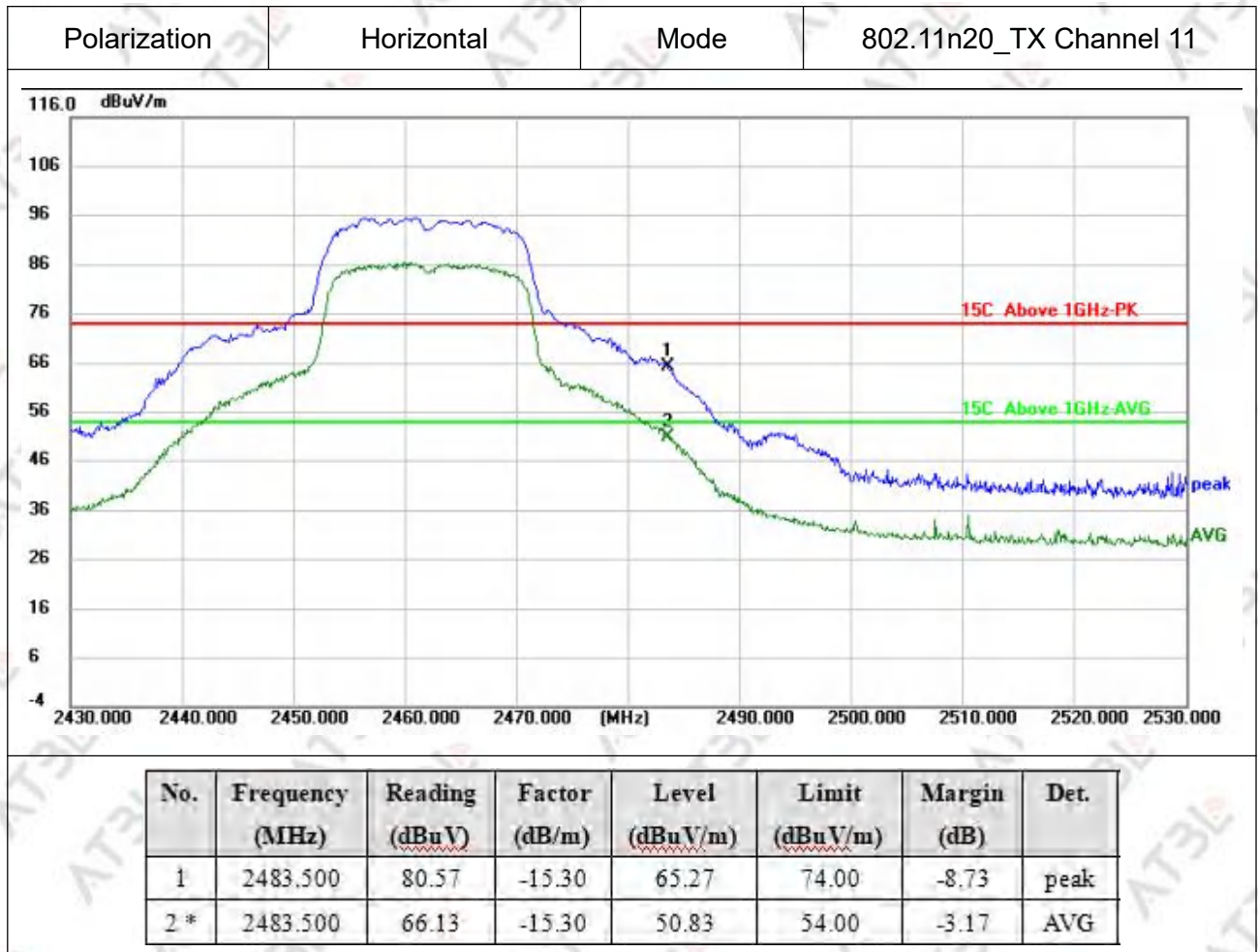


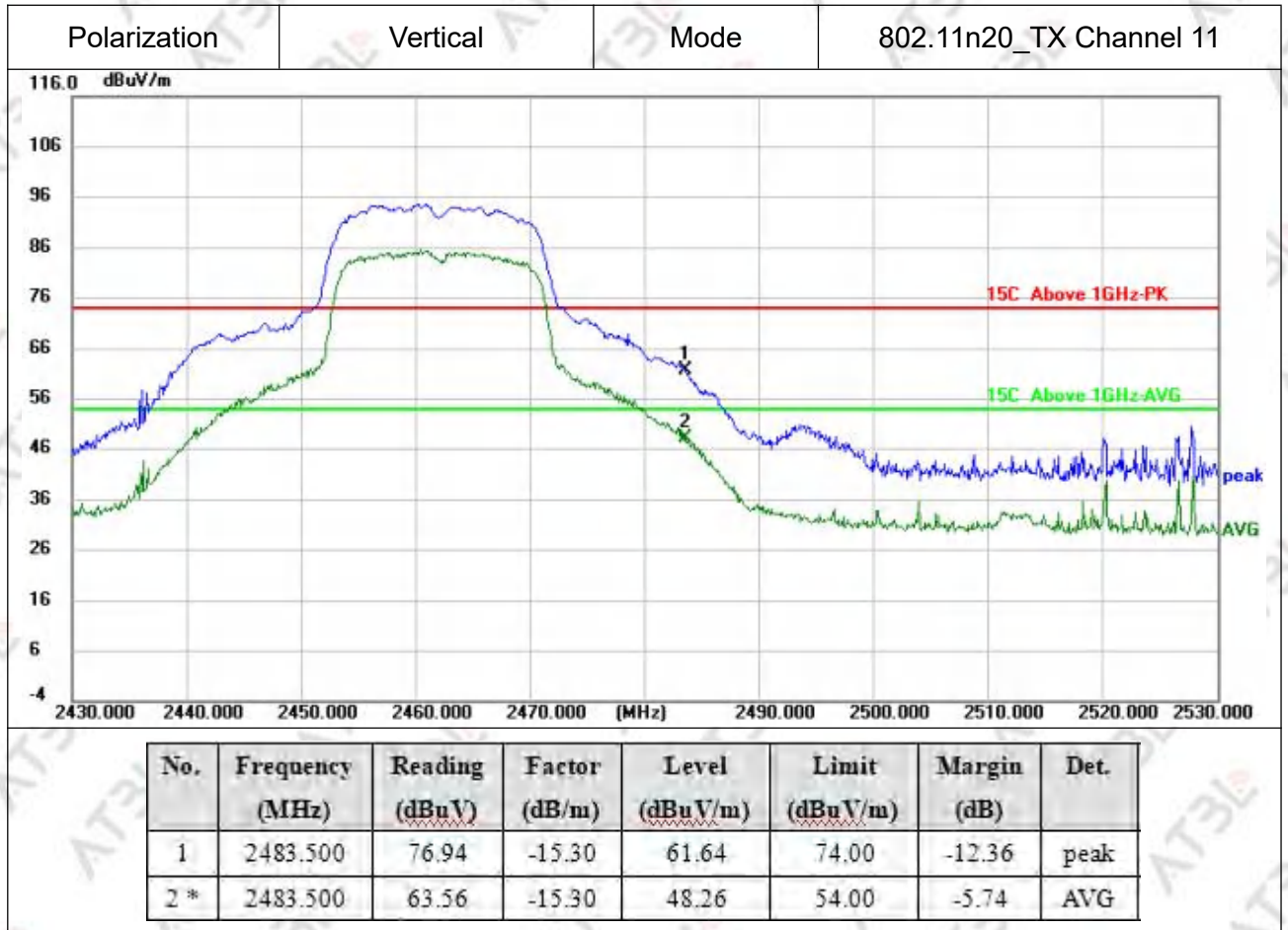
Test Result of Restricted Band



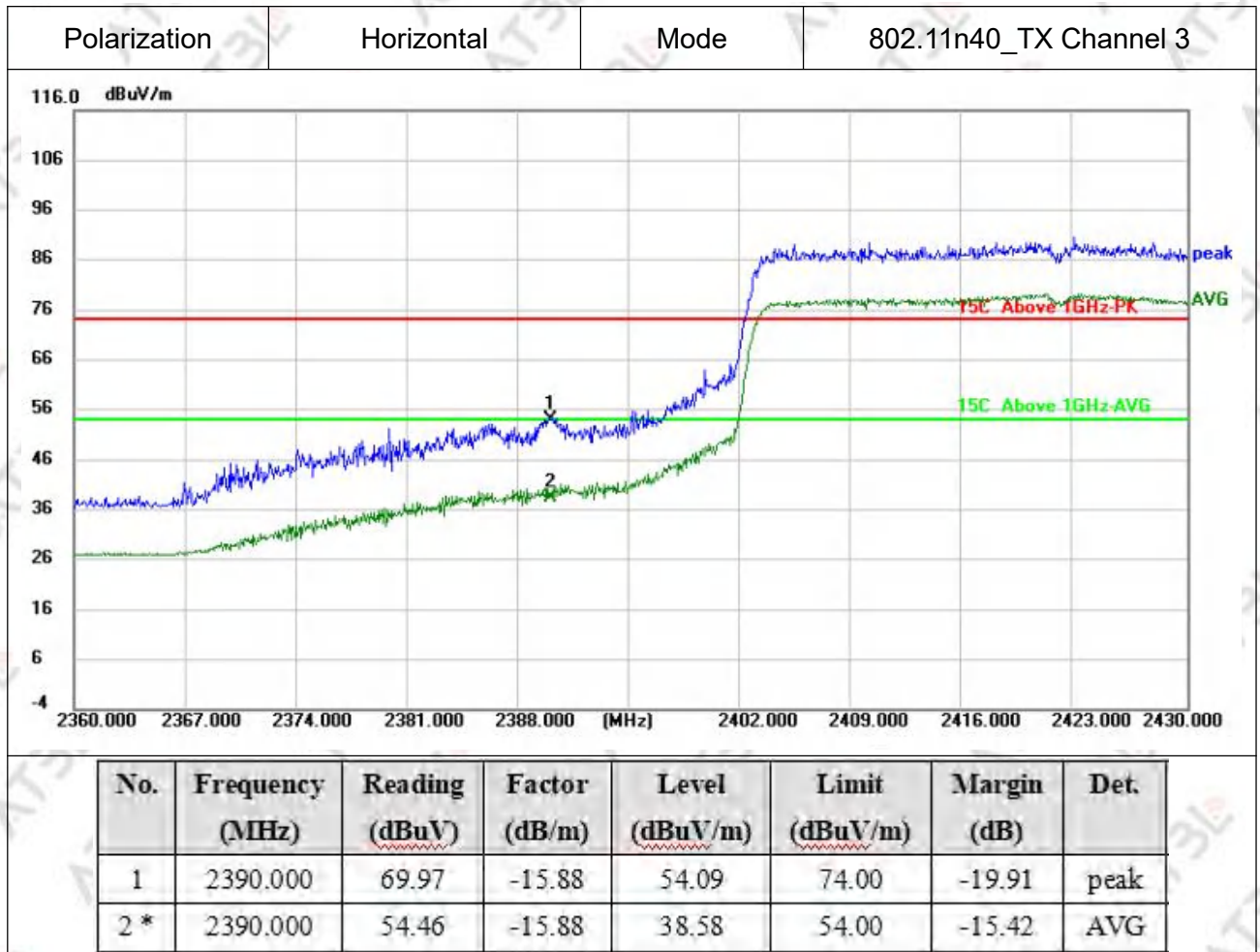


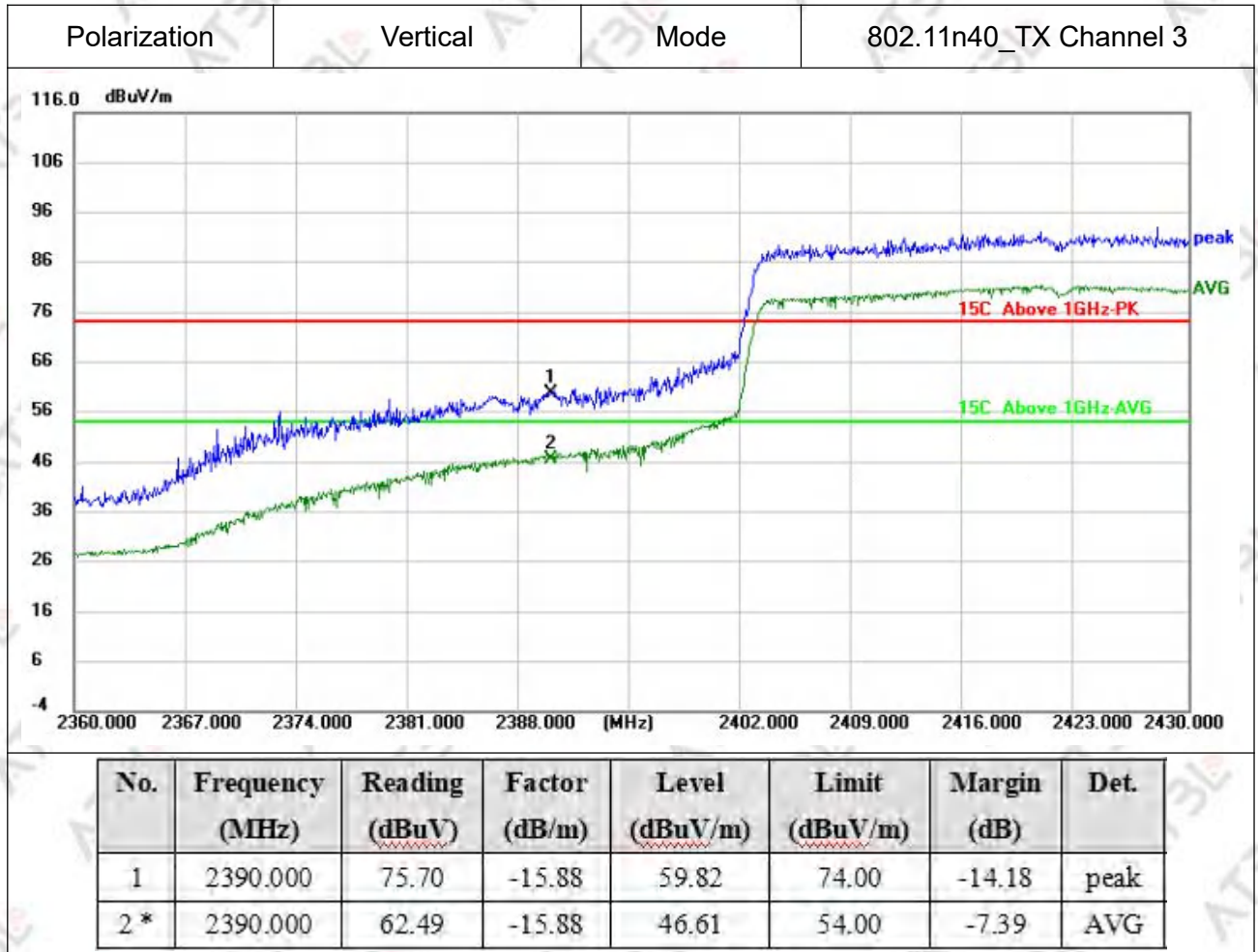
Note:Margin=Level-Limit=Reading+factor-Limit



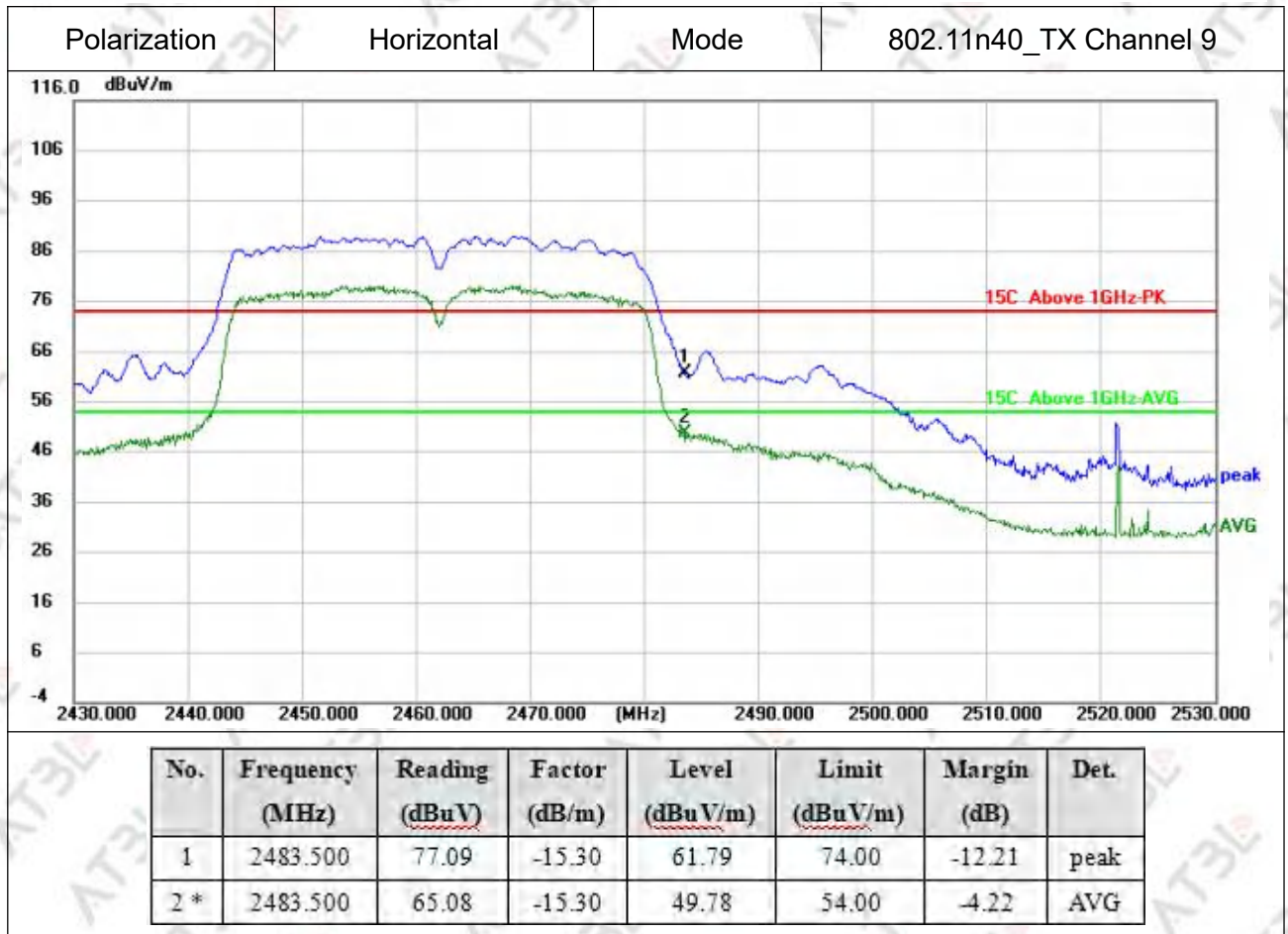


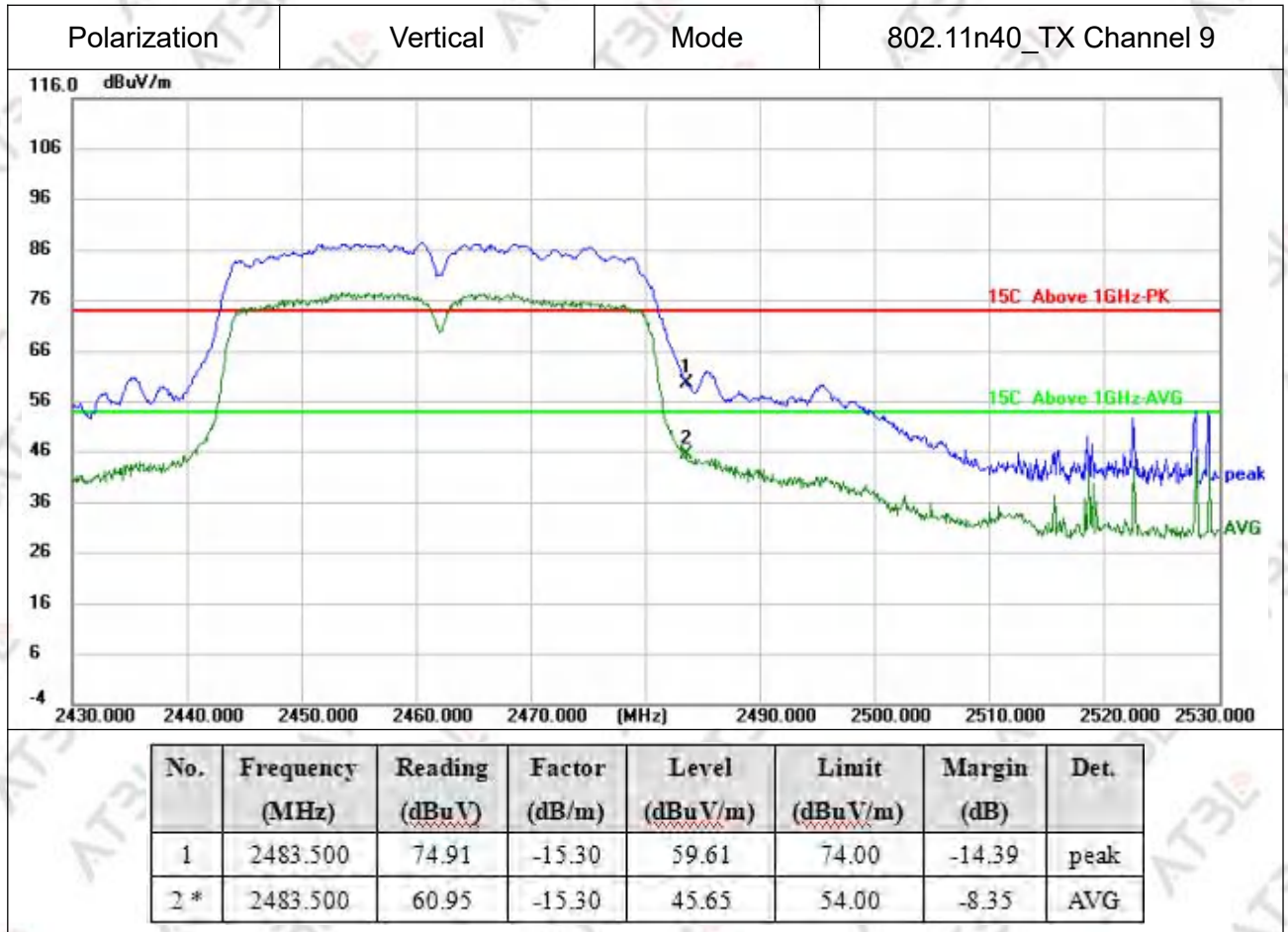
Note:Margin=Level-Limit=Reading+factor-Limit





Note:Margin=Level-Limit=Reading+factor-Limit



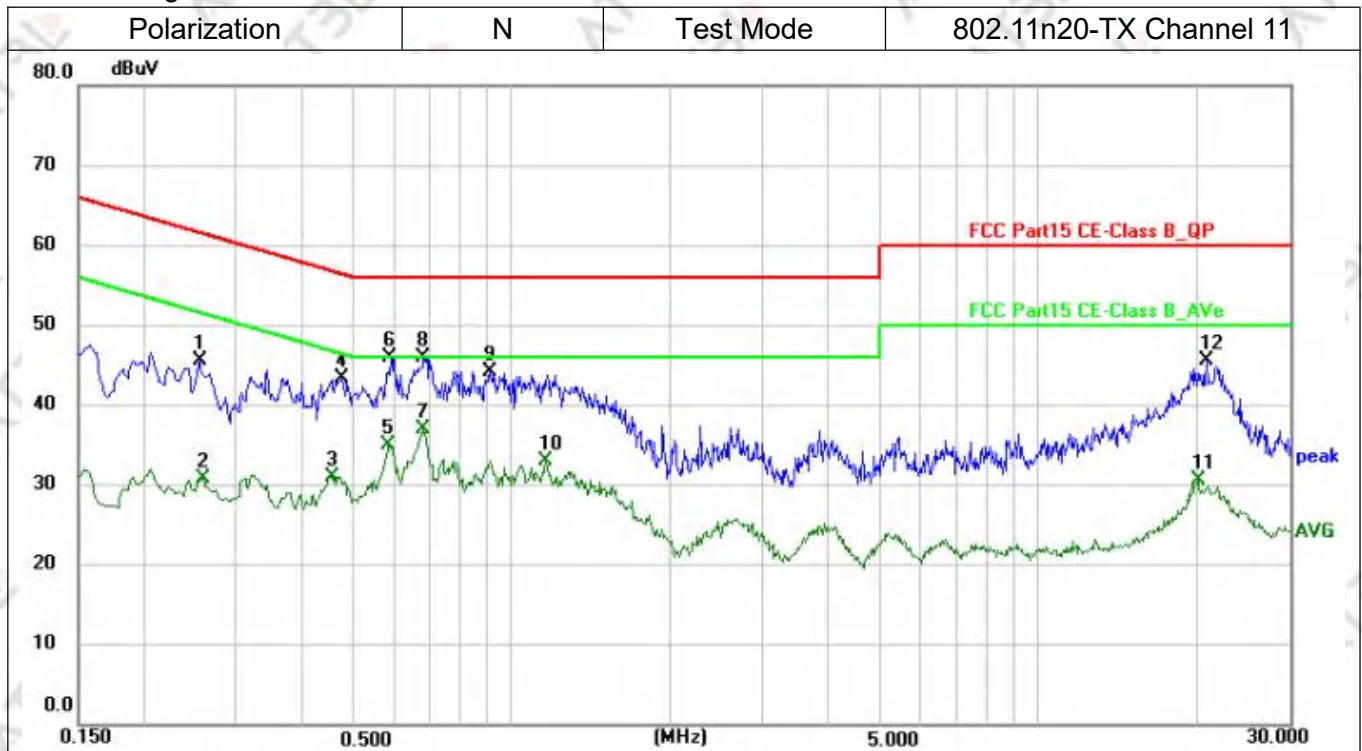


Note:Margin=Level-Limit=Reading+factor-Limit

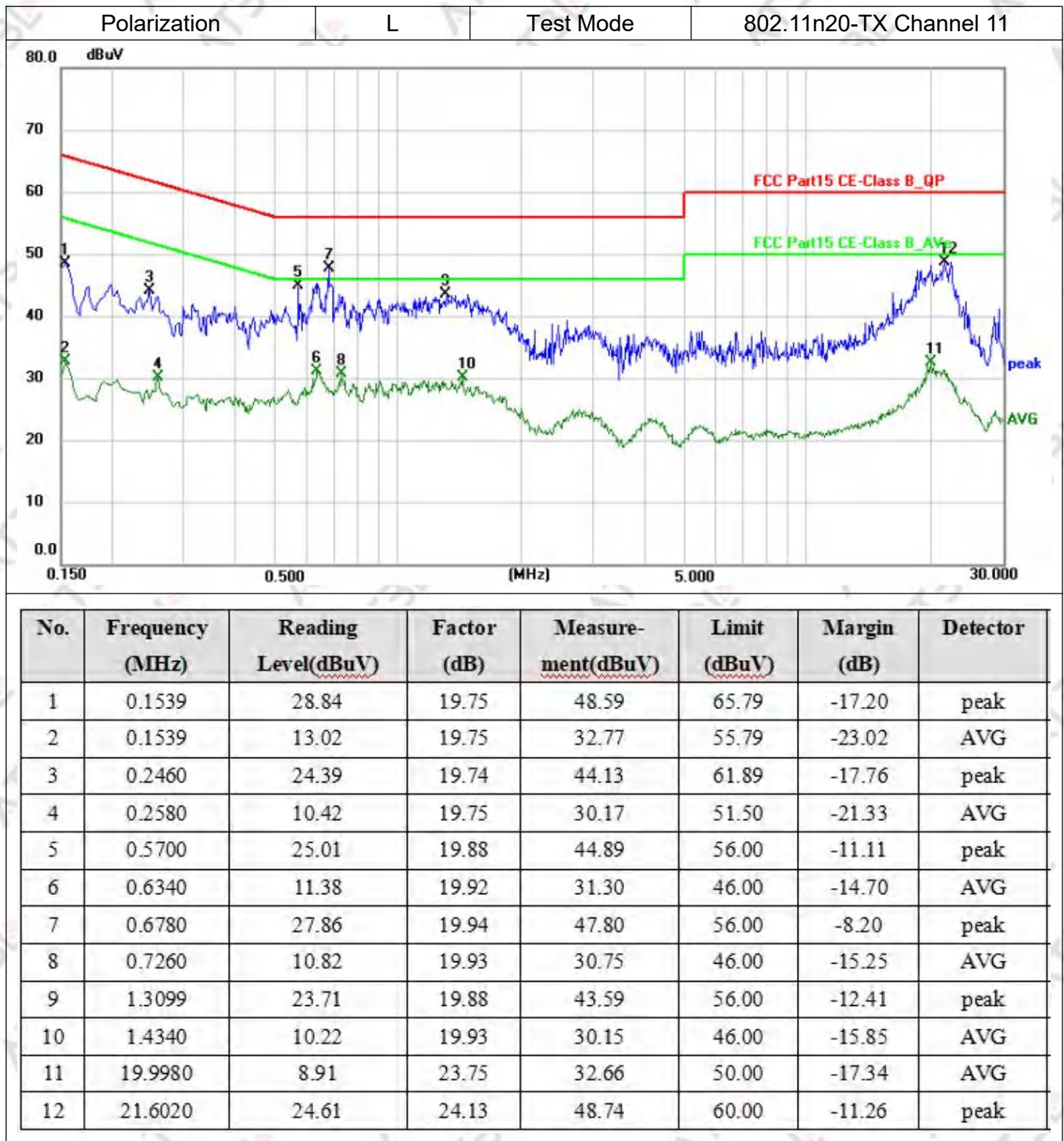
C7.AC Power-Line Conducted Emission

Note:

- 1.All modes have been tested, only worst mode(802.11n20-TX Channel 11) 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	0.2540	25.57	19.93	45.50	61.63	-16.13	peak
2	0.2580	10.87	19.93	30.80	51.50	-20.70	AVG
3	0.4540	11.43	19.63	31.06	46.80	-15.74	AVG
4	0.4740	23.81	19.59	43.40	56.44	-13.04	peak
5	0.5820	15.46	19.63	35.09	46.00	-10.91	AVG
6	0.5899	26.42	19.64	46.06	56.00	-9.94	peak
7	0.6780	17.33	19.73	37.06	46.00	-8.94	AVG
8	0.6820	26.29	19.73	46.02	56.00	-9.98	peak
9	0.9100	24.52	19.75	44.27	56.00	-11.73	peak
10	1.1620	13.17	19.81	32.98	46.00	-13.02	AVG
11	20.0900	7.26	23.27	30.53	50.00	-19.47	AVG
12	20.8460	22.03	23.47	45.50	60.00	-14.50	peak



*****END*****