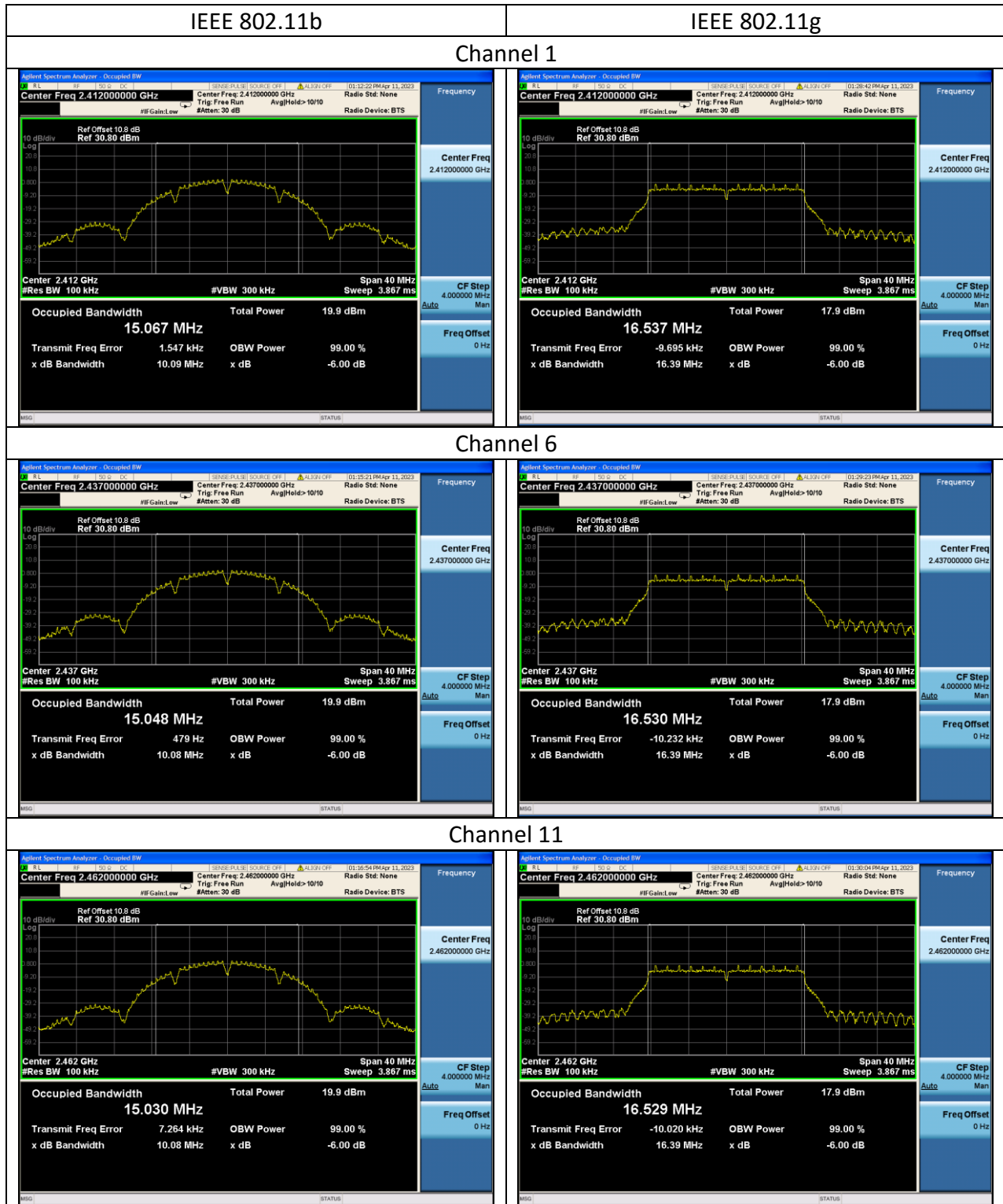


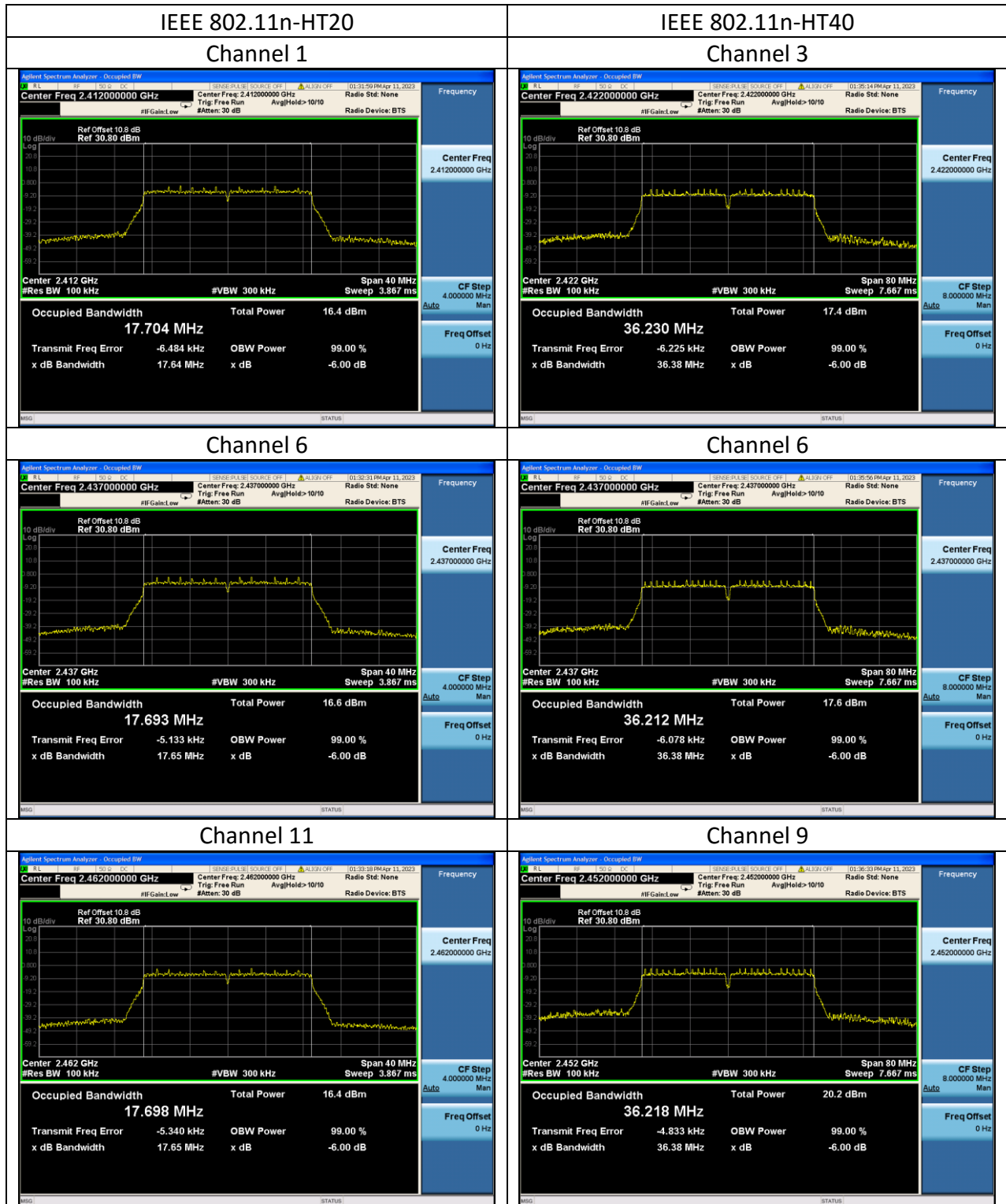
Appendix A

Test Results of Minimum 6dB bandwidth:

Mode	Channel/ Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Limit	Pass / Fail
IEEE 802.11b	1(2412)	10.09	> 500 kHz	Pass
	6(2437)	10.08	> 500 kHz	Pass
	11(2462)	10.08	> 500 kHz	Pass
IEEE 802.11g	1(2412)	16.39	> 500 kHz	Pass
	6(2437)	16.39	> 500 kHz	Pass
	11(2462)	16.39	> 500 kHz	Pass
IEEE 802.11n-HT20	1(2412)	17.64	> 500 kHz	Pass
	6(2437)	17.65	> 500 kHz	Pass
	11(2462)	17.65	> 500 kHz	Pass
IEEE 802.11n-HT40	3(2422)	36.38	> 500 kHz	Pass
	6(2437)	36.38	> 500 kHz	Pass
	9(2452)	36.38	> 500 kHz	Pass

The test plots as follows:





Appendix B

Test Results of Maximum conducted output power

Mode	Channel/ Frequency (MHz)	Maximum Conducted Peak Power (dBm)	Maximum Conducted Average Power (dBm)		Limit (dBm)	Pass / Fail
			Measured Value	Corrected Value		
IEEE 802.11b	1(2412)	14.27	12.65	12.65	30	Pass
	6(2437)	14.30	12.67	12.67	30	Pass
	11(2462)	14.36	12.69	12.69	30	Pass
IEEE 802.11g	1(2412)	20.75	10.77	11.01	30	Pass
	6(2437)	20.84	10.78	11.02	30	Pass
	11(2462)	20.96	10.90	11.14	30	Pass
IEEE 802.11n- HT20	1(2412)	20.05	9.74	9.74	30	Pass
	6(2437)	20.14	9.77	9.77	30	Pass
	11(2462)	20.31	9.85	9.85	30	Pass
IEEE 802.11n- HT40	3(2422)	20.71	10.22	10.36	30	Pass
	6(2437)	20.82	10.25	10.39	30	Pass
	9(2452)	20.86	10.29	10.43	30	Pass

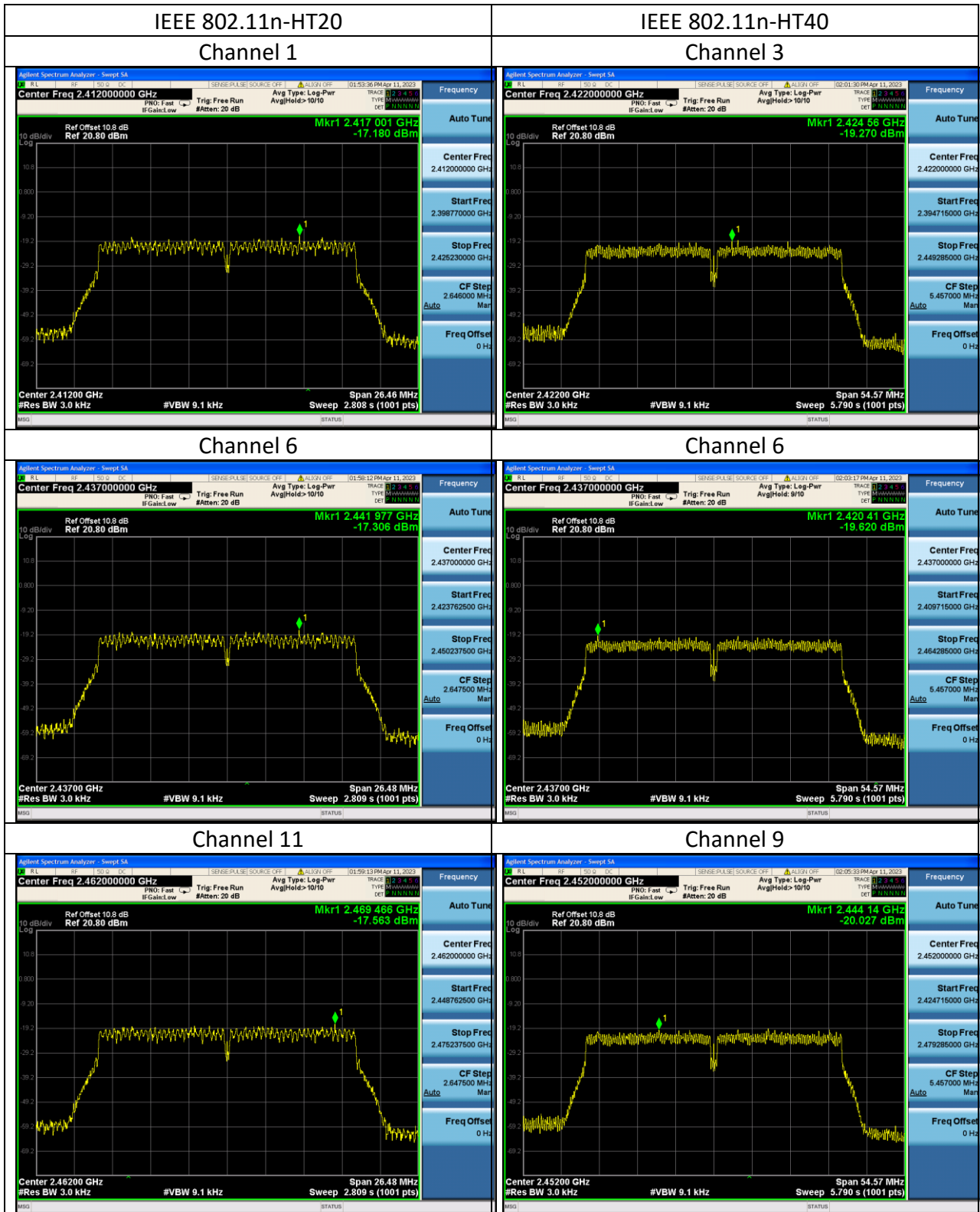
Appendix C

Test Results of Power spectrum density

Mode	Channel/ Frequency (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
IEEE 802.11b	1(2412)	-13.131	8	Pass
	6(2437)	-14.034	8	Pass
	11(2462)	-14.072	8	Pass
IEEE 802.11g	1(2412)	-16.988	8	Pass
	6(2437)	-16.757	8	Pass
	11(2462)	-15.917	8	Pass
IEEE 802.11n-HT20	1(2412)	-17.180	8	Pass
	6(2437)	-17.306	8	Pass
	11(2462)	-17.563	8	Pass
IEEE 802.11n-HT40	3(2422)	-19.270	8	Pass
	6(2437)	-19.620	8	Pass
	9(2452)	-20.027	8	Pass

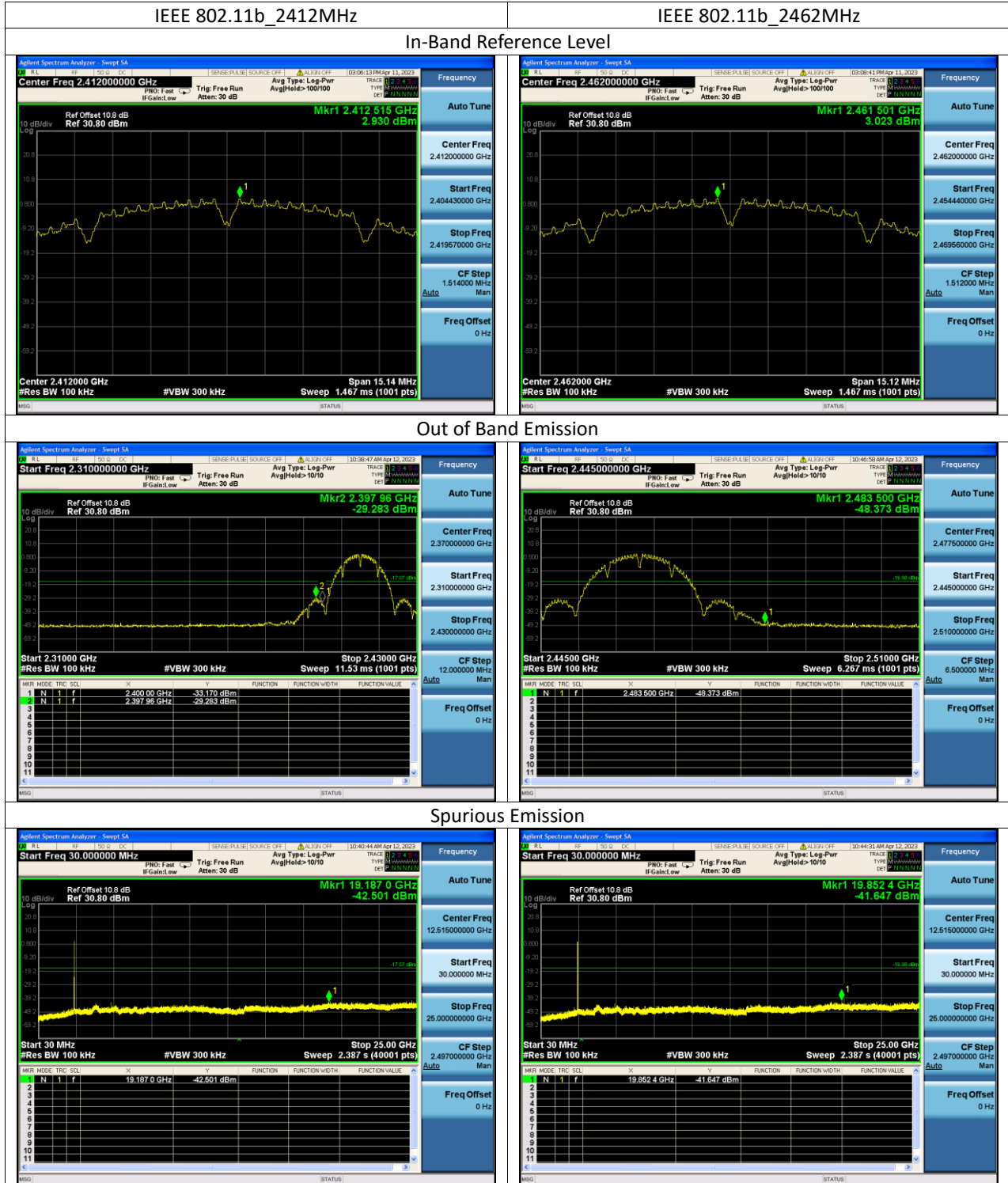
The test plots as follows:



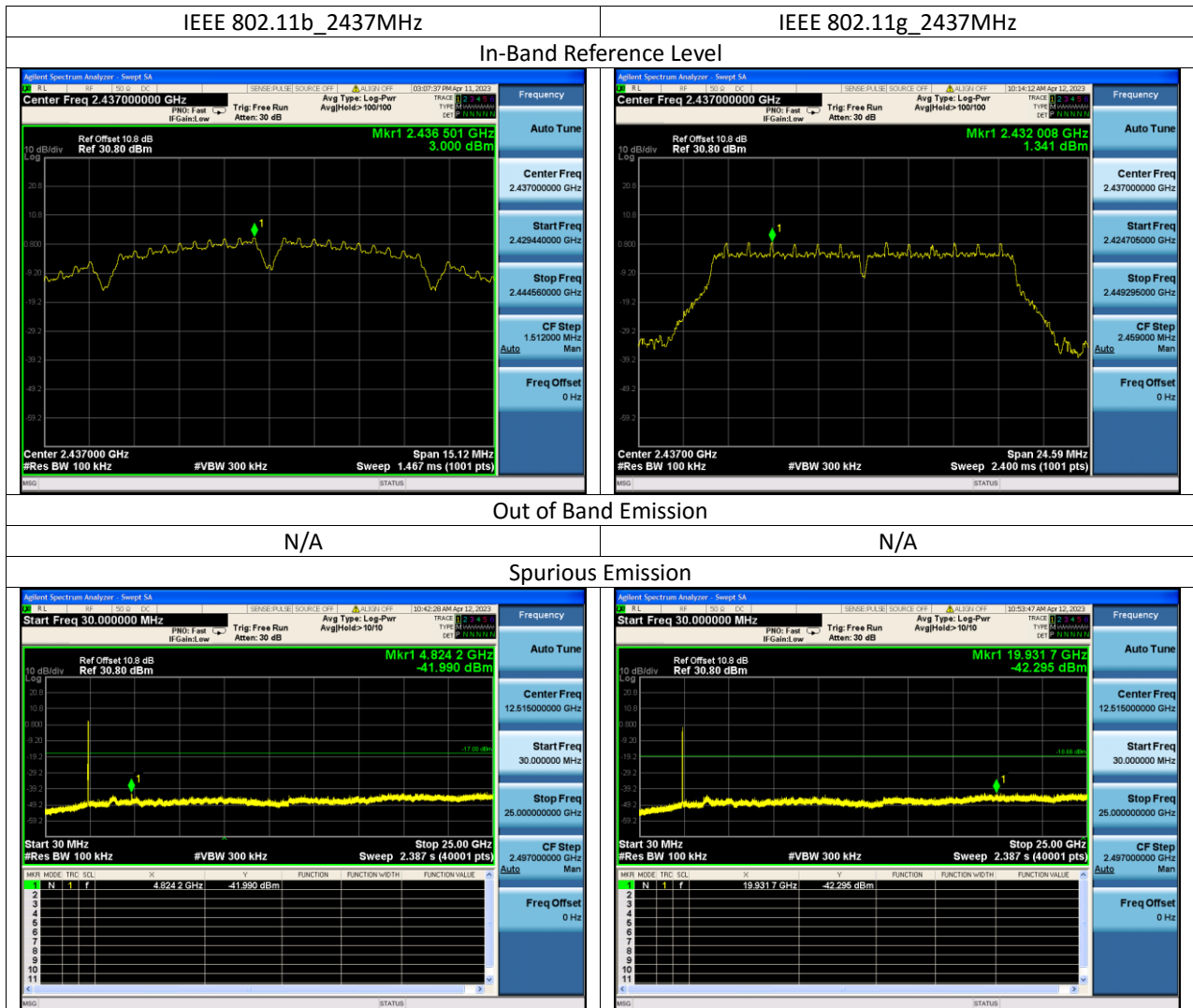


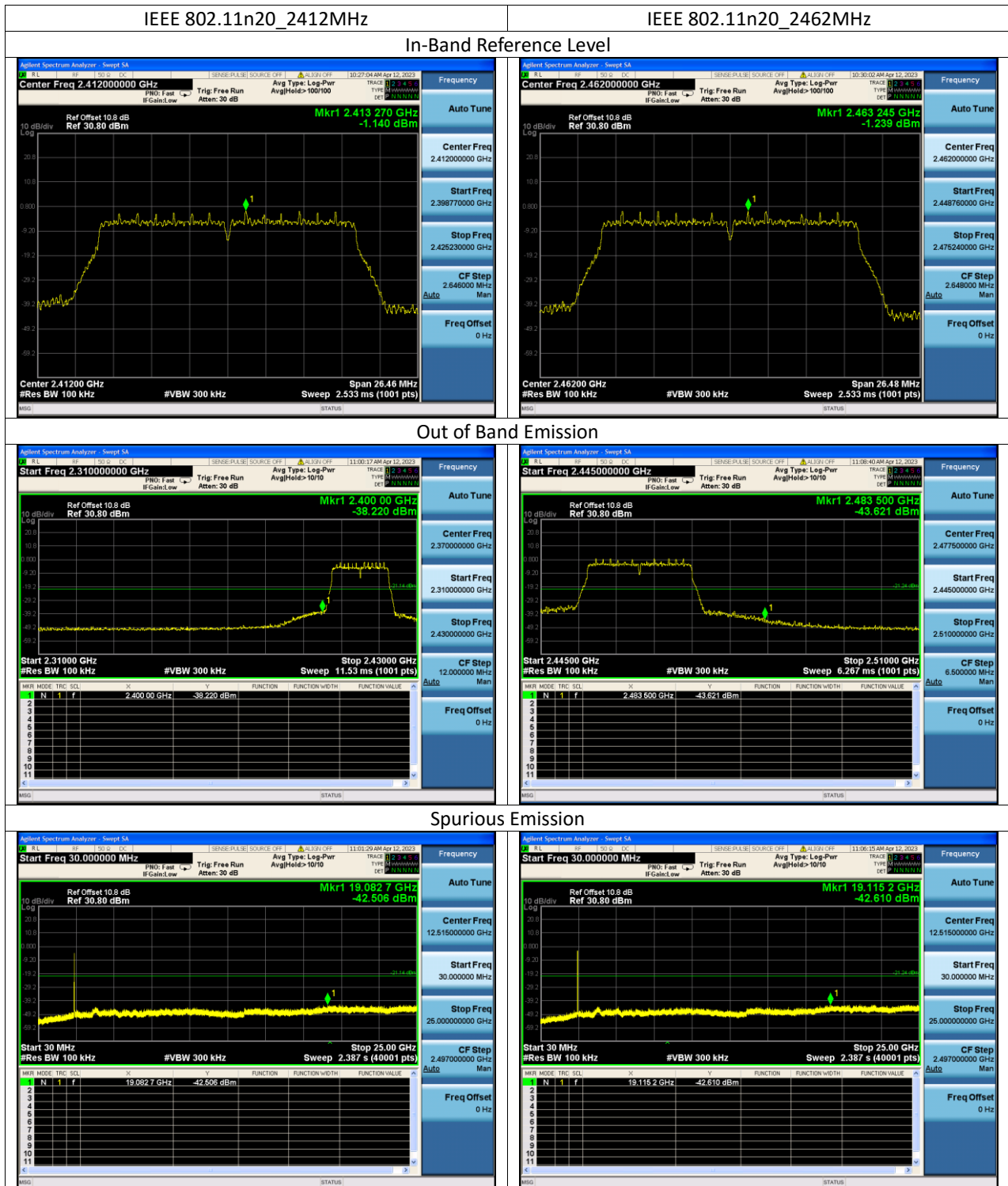
Appendix D

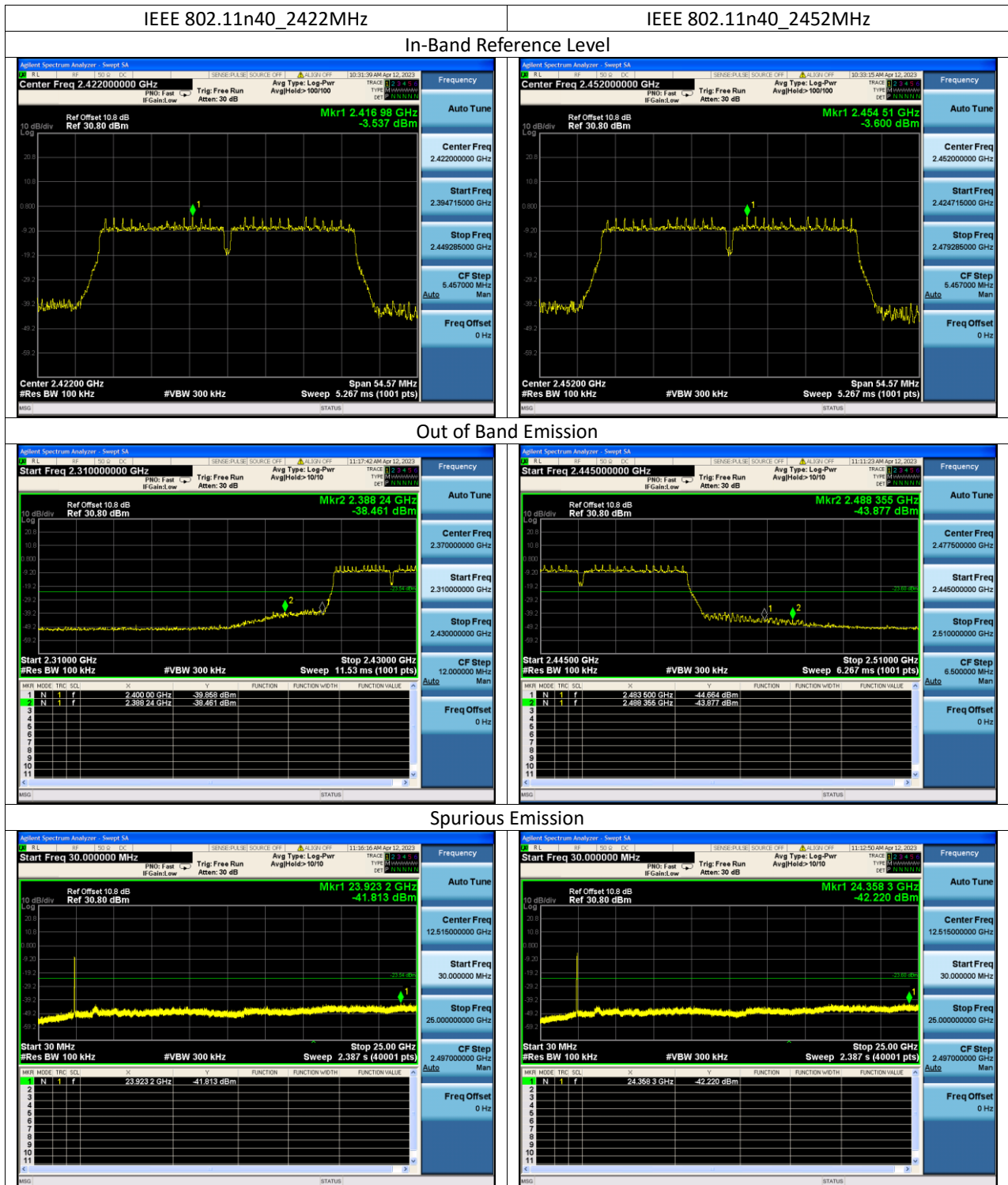
The test plots as follows:

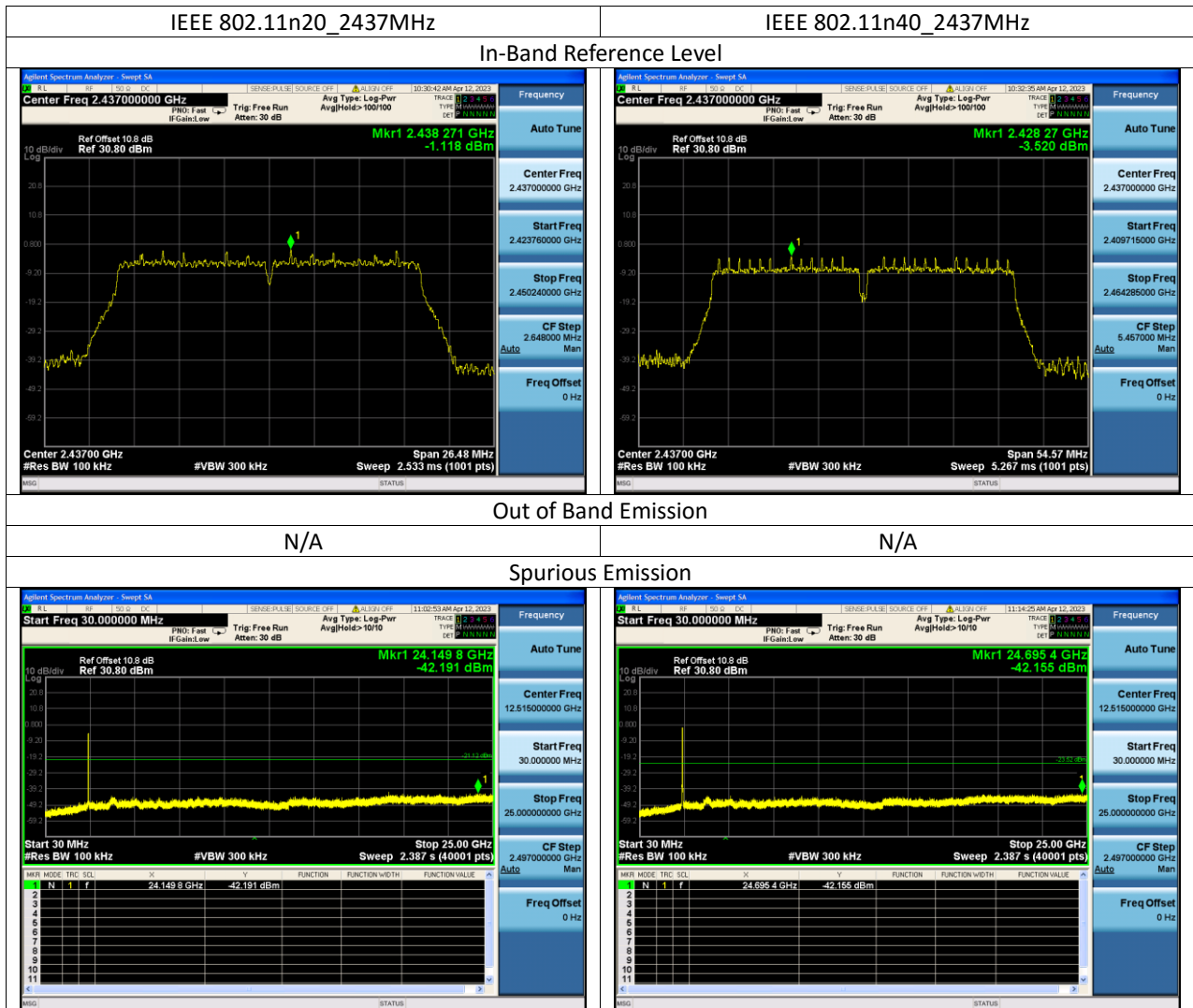












TEST REPORT

Appendix E

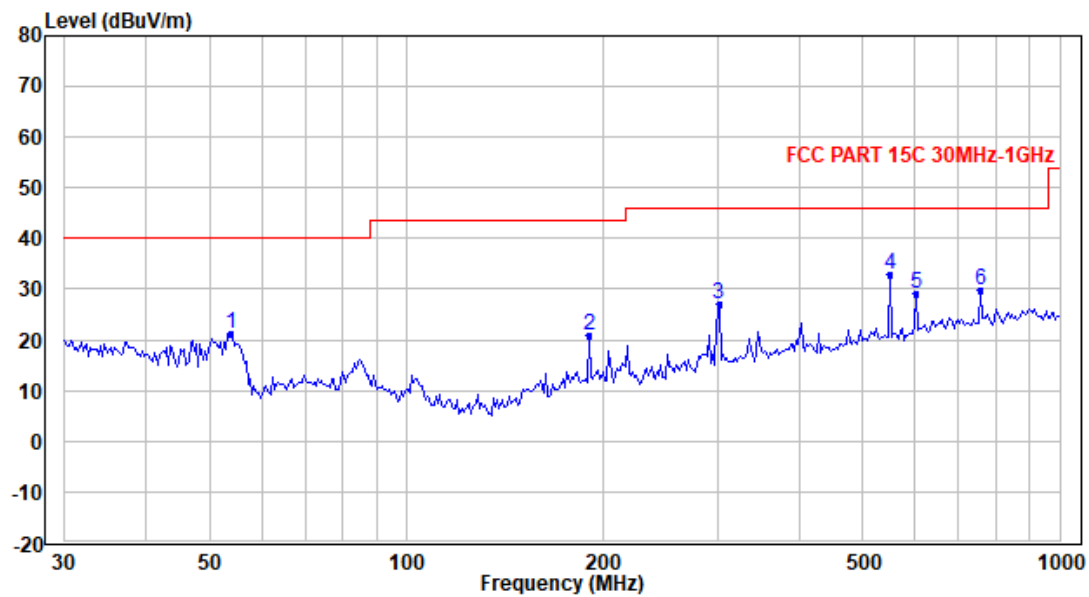
Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

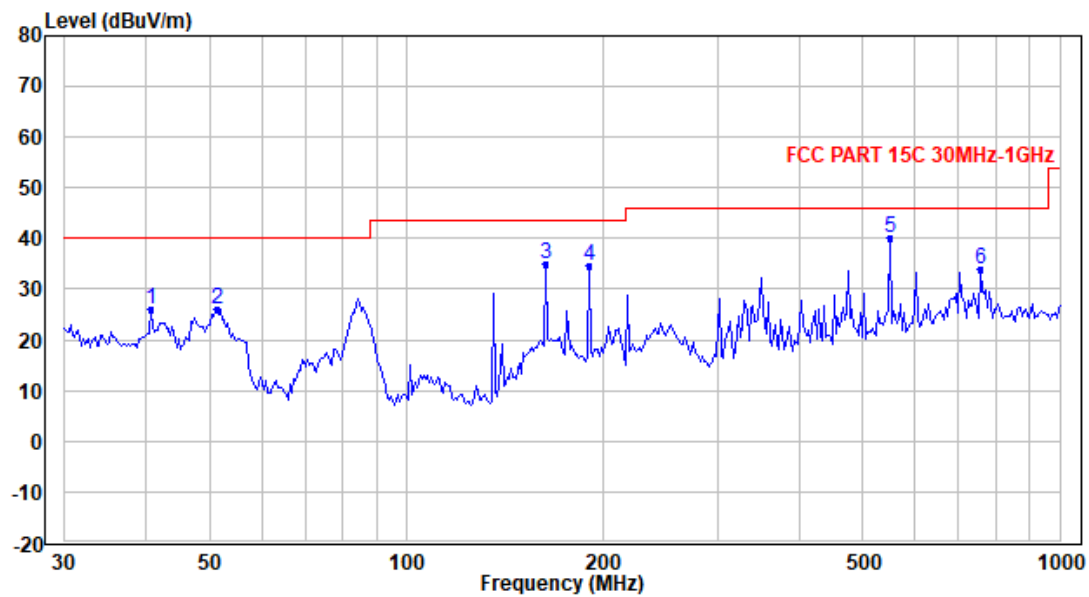
Radiated Emissions 30MHz~1GHz:

Test Curve:

Horizontal



Vertical



TEST REPORT

Test data 30MHz~1GHz:

Polarization	Frequency (MHz)	Measured level (dBμV/m)	Factor (dB/m)	Limits (dBμV/m)	Margin (dB)	Detector
H	53.756	21.27	-16.18	40.00	-18.73	Peak
	190.441	20.90	-10.33	43.50	-22.60	Peak
	300.699	27.05	-6.41	46.00	-18.95	Peak
	550.290	32.77	-1.00	46.00	-13.23	Peak
	602.929	29.00	0.45	46.00	-17.00	Peak
	754.963	29.72	2.48	46.00	-16.28	Peak
V	40.584	26.06	-8.29	40.00	-13.94	Peak
	51.176	25.99	-14.98	40.00	-14.01	Peak
	163.162	34.93	-12.92	43.50	-8.57	Peak
	190.441	34.58	-10.33	43.50	-8.92	Peak
	550.290	40.16	-1.00	46.00	-5.84	Peak
	754.963	33.81	2.48	46.00	-12.19	Peak

Remark:

- Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
- Measured level= Original Receiver Reading + Factor
- Margin = Limit – Measured level
- All possible modes of operation were investigated, only the worst-case emissions reported.
- Pre-scan test indicated that QP level is less than Peak level about 5dB in same frequency and same Polarization direction, so not all data was recorded by QP detector.

TEST REPORT

Radiated Emission Test Data (Above 1GHz):

IEEE 802.11b_ Channel 1:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824	31.7	-1.4	30.3	74	-43.7	Peak	Horizontal
2	4824	20.2	-1.4	18.9	54	-35.2	Average	Horizontal
3	7236	35.9	1.3	37.2	74	-36.8	Peak	Horizontal
4	7236	23.4	1.3	24.7	54	-29.3	Average	Horizontal
5	4824	32.3	-1.4	30.9	74	-43.1	Peak	Vertical
6	4824	20.4	-1.4	19.0	54	-35.0	Average	Vertical
7	7236	34.5	1.3	35.8	74	-38.2	Peak	Vertical
8	7236	23.5	1.3	24.8	54	-29.2	Average	Vertical
IEEE 802.11b_ Channel 6:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874	35.3	-1.4	34.0	74	-40.0	Peak	Horizontal
2	4874	23.5	-1.4	22.1	54	-31.9	Average	Horizontal
3	7311	36.5	1.3	37.8	74	-36.2	Peak	Horizontal
4	7311	24.0	1.3	25.3	54	-28.7	Average	Horizontal
5	4874	36.0	-1.4	34.6	74	-39.4	Peak	Vertical
6	4874	24.1	-1.4	22.8	54	-31.2	Average	Vertical
7	7311	35.8	1.3	37.1	74	-36.9	Peak	Vertical
8	7311	23.7	1.3	25.0	54	-29.0	Average	Vertical
IEEE 802.11b_ Channel 11:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4924	33.5	-1.3	32.1	74	-41.9	Peak	Horizontal
2	4924	20.1	-1.3	18.7	54	-35.3	Average	Horizontal
3	7386	32.4	1.3	33.7	74	-40.3	Peak	Horizontal
4	7386	20.6	1.3	21.9	54	-32.1	Average	Horizontal
5	4924	33.3	-1.3	32.0	74	-42.0	Peak	Vertical
6	4924	19.9	-1.3	18.6	54	-35.4	Average	Vertical
7	7386	30.7	1.3	32.0	74	-42.0	Peak	Vertical
8	7386	19.5	1.3	20.8	54	-33.2	Average	Vertical

IEEE 802.11g_ Channel 1:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824	32.4	-1.4	31.0	74	-43.0	Peak	Horizontal
2	4824	20.3	-1.4	18.9	54	-35.1	Average	Horizontal
3	7236	35.2	1.3	36.5	74	-37.5	Peak	Horizontal
4	7236	23.5	1.3	24.8	54	-29.2	Average	Horizontal
5	4824	33.2	-1.4	31.8	74	-42.2	Peak	Vertical
6	4824	20.1	-1.4	18.7	54	-35.3	Average	Vertical
7	7236	34.2	1.3	35.5	74	-38.5	Peak	Vertical
8	7236	22.5	1.3	23.8	54	-30.2	Average	Vertical
IEEE 802.11g_ Channel 6:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874	37.6	-1.4	36.3	74	-37.7	Peak	Horizontal
2	4874	25.2	-1.4	23.8	54	-30.2	Average	Horizontal
3	7311	36.9	1.3	38.2	74	-35.8	Peak	Horizontal
4	7311	24.1	1.3	25.4	54	-28.6	Average	Horizontal
5	4874	35.7	-1.4	34.4	74	-39.6	Peak	Vertical
6	4874	25.1	-1.4	23.8	54	-30.3	Average	Vertical
7	7311	35.5	1.3	36.8	74	-37.2	Peak	Vertical
8	7311	24.1	1.3	25.4	54	-28.6	Average	Vertical
IEEE 802.11g_ Channel 11:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4924	32.2	-1.3	30.8	74	-43.2	Peak	Horizontal
2	4924	20.8	-1.3	19.5	54	-34.5	Average	Horizontal
3	7386	31.3	1.3	32.6	74	-41.4	Peak	Horizontal
4	7386	20.6	1.3	21.9	54	-32.1	Average	Horizontal
5	4924	32.9	-1.3	31.5	74	-42.5	Peak	Vertical
6	4924	20.9	-1.3	19.6	54	-34.4	Average	Vertical
7	7386	33.4	1.3	34.7	74	-39.3	Peak	Vertical
8	7386	20.8	1.3	22.1	54	-31.9	Average	Vertical

IEEE 802.11n-HT20_Channel 1:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824	34.6	-1.4	33.2	74	-40.8	Peak	Horizontal
2	4824	21.7	-1.4	20.3	54	-33.7	Average	Horizontal
3	7236	36.0	1.3	37.3	74	-36.7	Peak	Horizontal
4	7236	24.2	1.3	25.4	54	-28.6	Average	Horizontal
5	4824	33.8	-1.4	32.5	74	-41.5	Peak	Vertical
6	4824	21.4	-1.4	20.0	54	-34.0	Average	Vertical
7	7236	36.0	1.3	37.3	74	-36.7	Peak	Vertical
8	7236	23.8	1.3	25.0	54	-29.0	Average	Vertical
IEEE 802.11n-HT20_Channel 6:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874	35.1	-1.4	33.7	74	-40.3	Peak	Horizontal
2	4874	25.2	-1.4	23.9	54	-30.1	Average	Horizontal
3	7311	34.2	1.3	35.5	74	-38.5	Peak	Horizontal
4	7311	23.5	1.3	24.8	54	-29.2	Average	Horizontal
5	4874	35.4	-1.4	34.1	74	-39.9	Peak	Vertical
6	4874	25.1	-1.4	23.7	54	-30.3	Average	Vertical
7	7311	35.3	1.3	36.6	74	-37.4	Peak	Vertical
8	7311	23.9	1.3	25.2	54	-28.8	Average	Vertical
IEEE 802.11n-HT20_Channel 11:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4924	33.8	-1.3	32.4	74	-41.6	Peak	Horizontal
2	4924	20.9	-1.3	19.5	54	-34.5	Average	Horizontal
3	7386	31.8	1.3	33.1	74	-40.9	Peak	Horizontal
4	7386	20.7	1.3	22.0	54	-32.0	Average	Horizontal
5	4924	32.4	-1.3	31.0	74	-43.0	Peak	Vertical
6	4924	21.1	-1.3	19.7	54	-34.3	Average	Vertical
7	7386	31.4	1.3	32.7	74	-41.3	Peak	Vertical
8	7386	20.6	1.3	21.9	54	-32.1	Average	Vertical

IEEE 802.11n-HT40_ Channel 3:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4844	33.4	-1.4	32.0	74	-42.0	Peak	Horizontal
2	4844	21.6	-1.4	20.2	54	-33.8	Average	Horizontal
3	7266	36.2	1.3	37.5	74	-36.5	Peak	Horizontal
4	7266	24.1	1.3	25.4	54	-28.6	Average	Horizontal
5	4844	32.9	-1.4	31.5	74	-42.5	Peak	Vertical
6	4844	21.2	-1.4	19.9	54	-34.2	Average	Vertical
7	7266	36.0	1.3	37.3	74	-36.7	Peak	Vertical
8	7266	24.0	1.3	25.3	54	-28.7	Average	Vertical
IEEE 802.11n-HT40_ Channel 6:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874	36.0	-1.4	34.6	74	-39.4	Peak	Horizontal
2	4874	24.8	-1.4	23.5	54	-30.5	Average	Horizontal
3	7311	34.6	1.3	35.9	74	-38.1	Peak	Horizontal
4	7311	23.9	1.3	25.2	54	-28.9	Average	Horizontal
5	4874	35.6	-1.4	34.3	74	-39.7	Peak	Vertical
6	4874	25.0	-1.4	23.6	54	-30.4	Average	Vertical
7	7311	35.7	1.3	37.0	74	-37.0	Peak	Vertical
8	7311	23.0	1.3	25.1	54	-28.9	Average	Vertical
IEEE 802.11n-HT40_ Channel 9:								
No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4904	32.6	-1.4	31.3	74	-42.7	Peak	Horizontal
2	4904	21.1	-1.4	19.7	54	-34.3	Average	Horizontal
3	7356	31.9	1.3	33.2	74	-40.8	Peak	Horizontal
4	7356	20.8	1.3	22.1	54	-31.9	Average	Horizontal
5	4904	32.8	-1.4	31.4	74	-42.6	Peak	Vertical
6	4904	21.1	-1.4	19.7	54	-34.3	Average	Vertical
7	7356	32.1	1.3	33.4	74	-40.6	Peak	Vertical
8	7356	21.0	1.3	22.3	54	-31.7	Average	Vertical

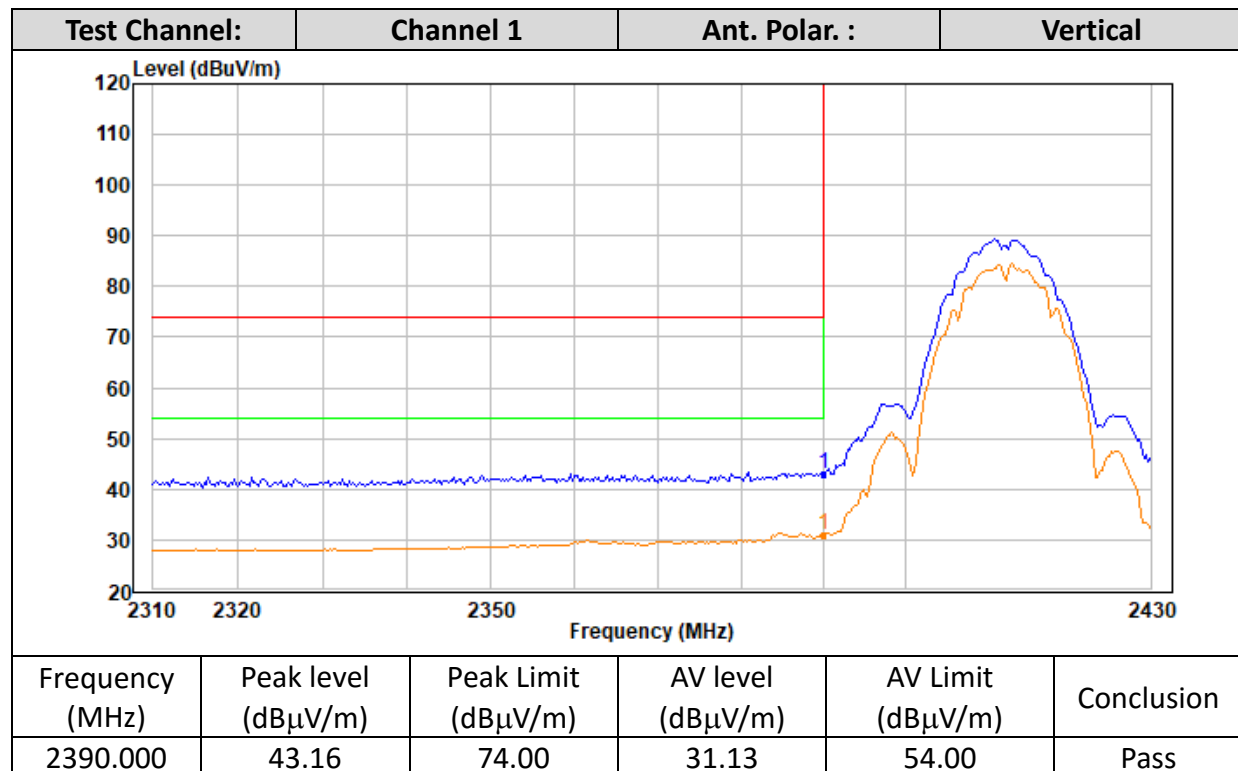
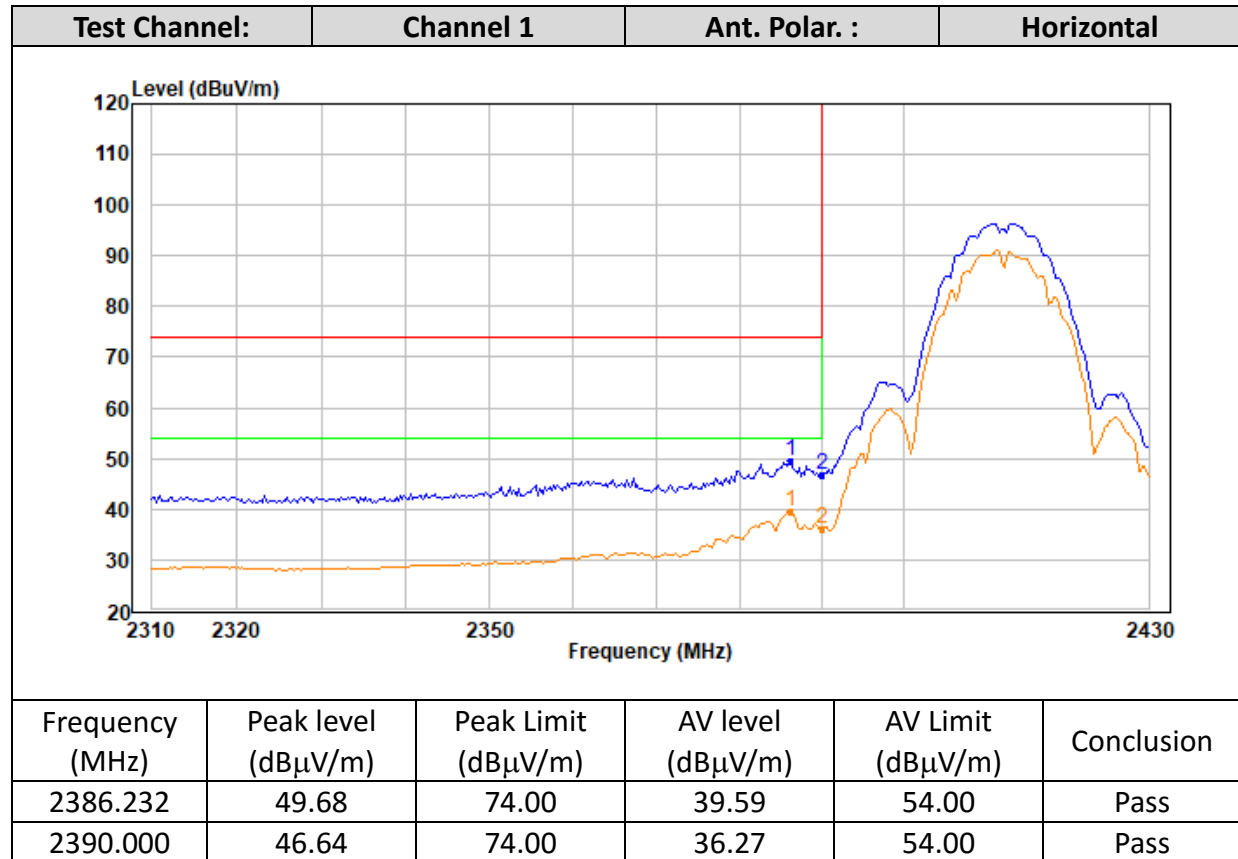
Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
Margin = Result – Limit

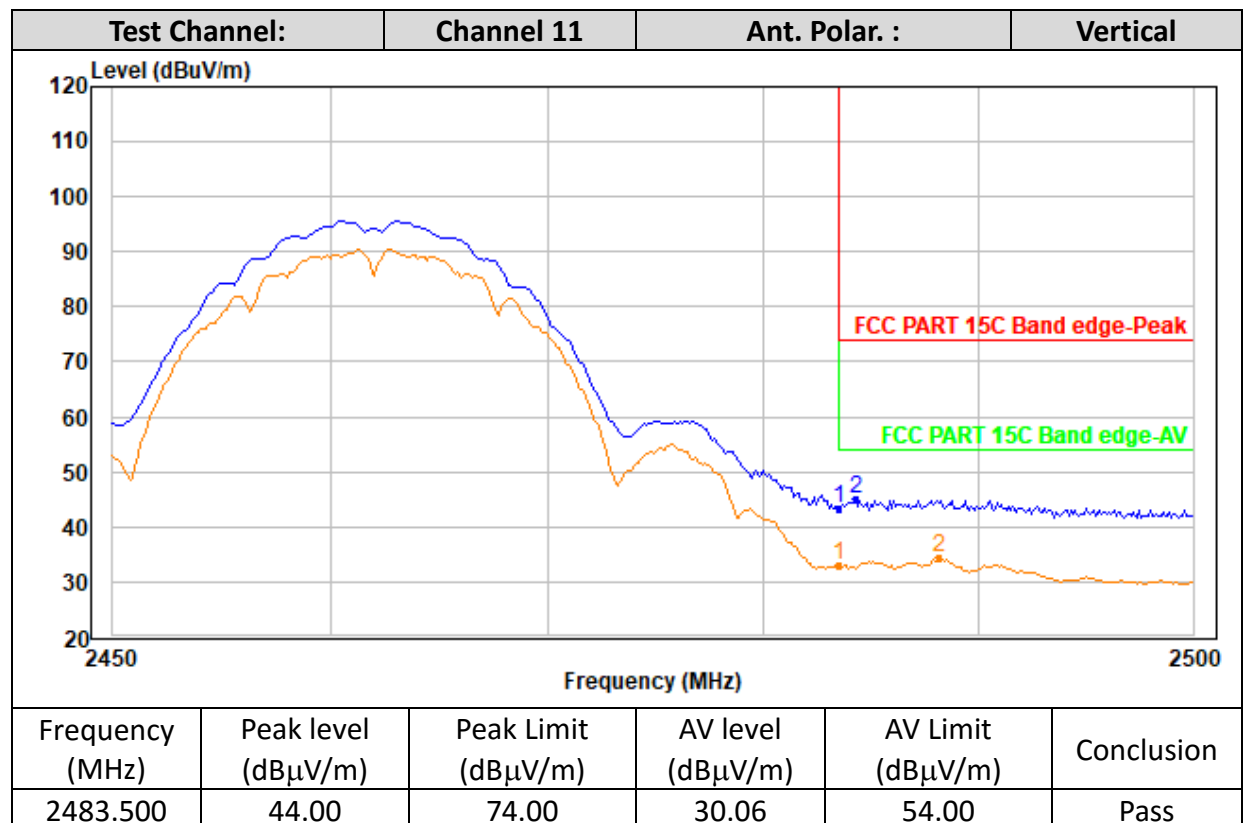
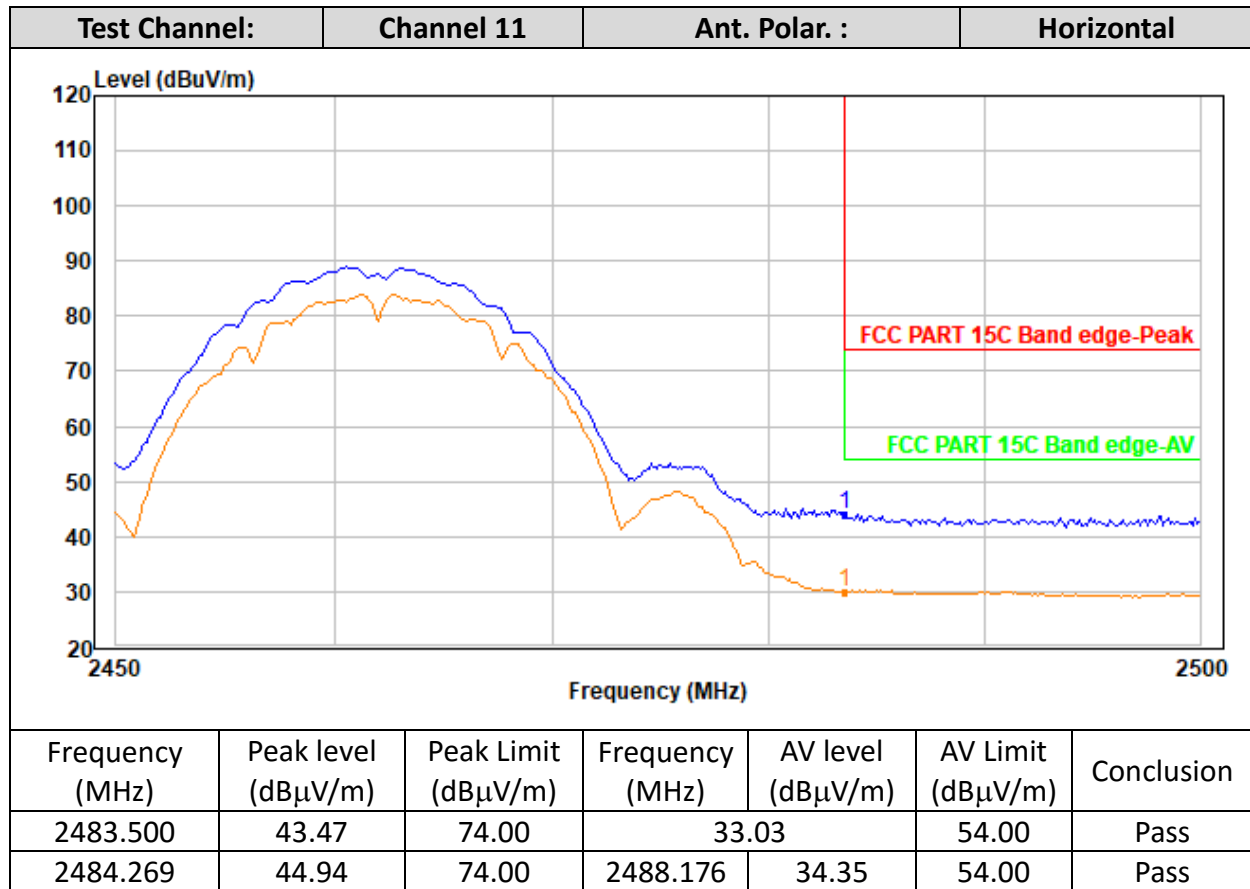
TEST REPORT

Band Edge Measurements (Radiated)

IEEE 802.11b

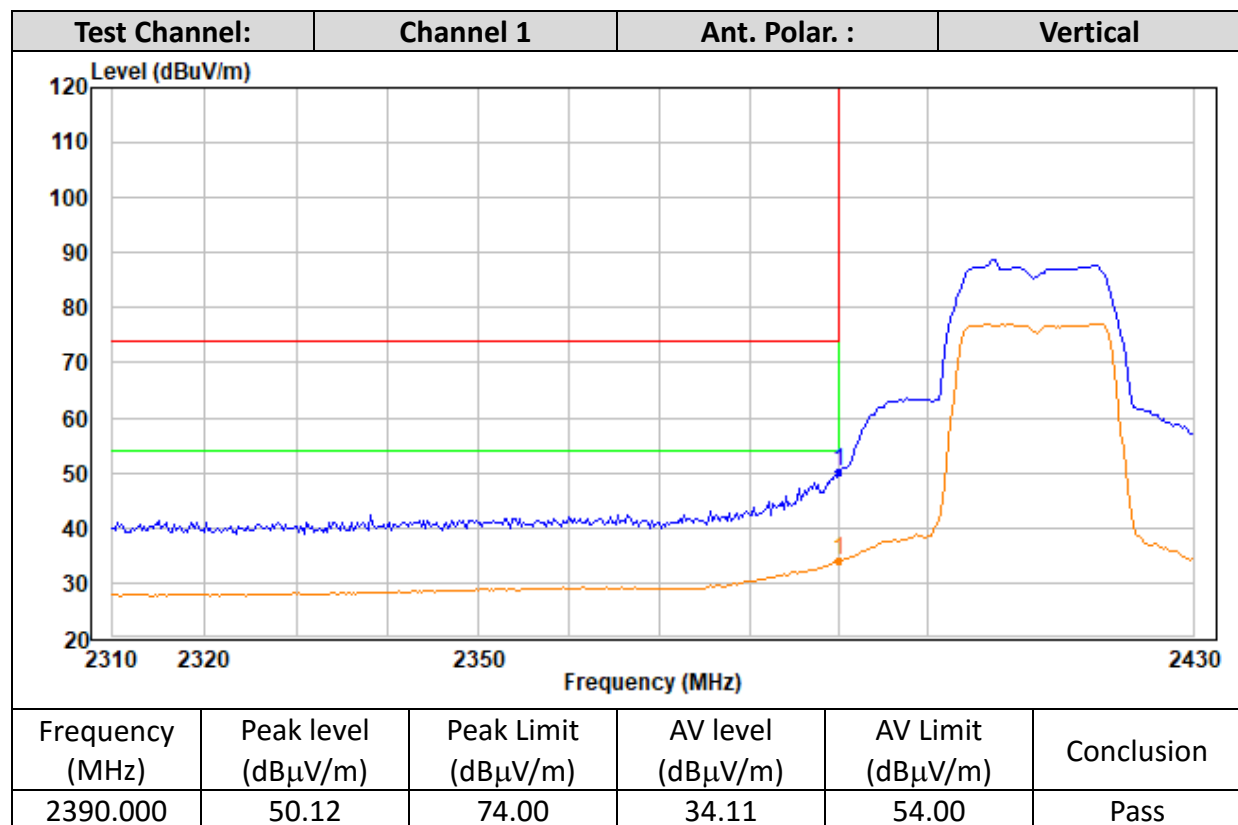
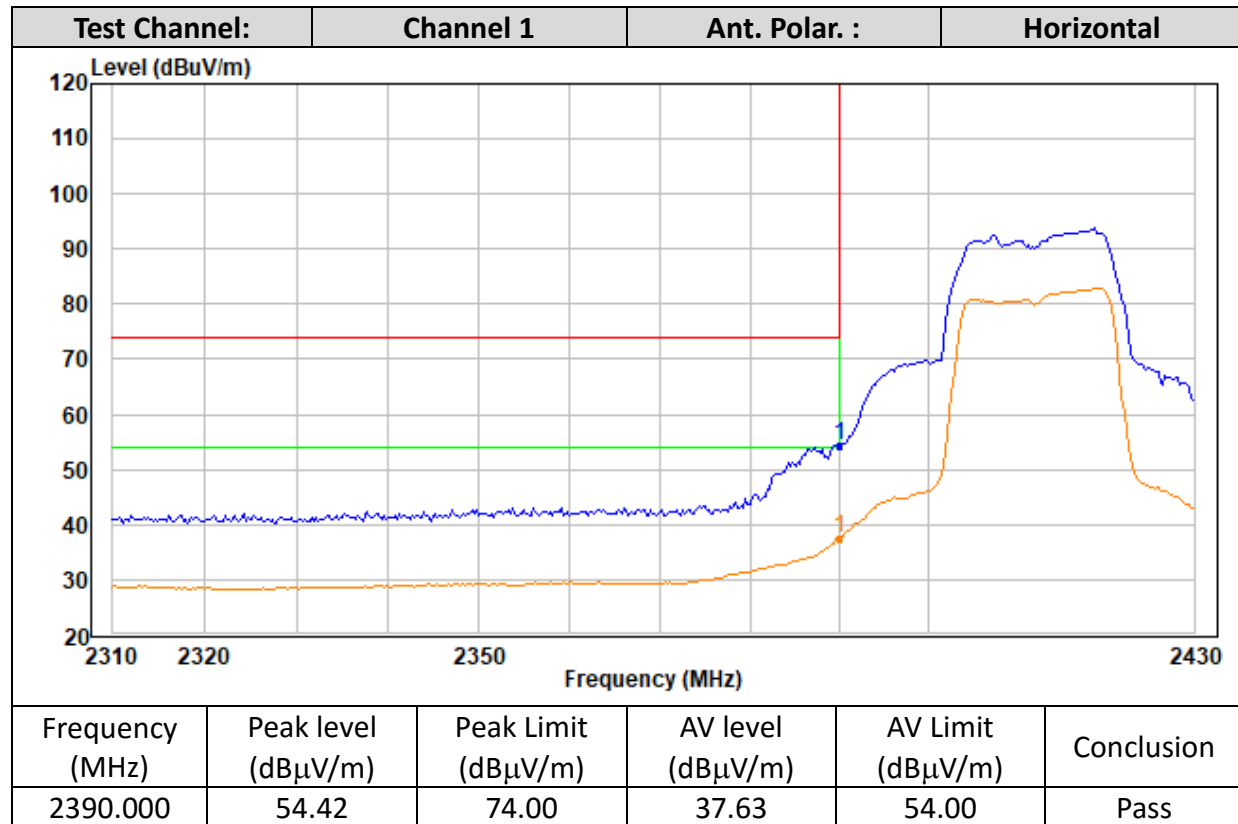


TEST REPORT

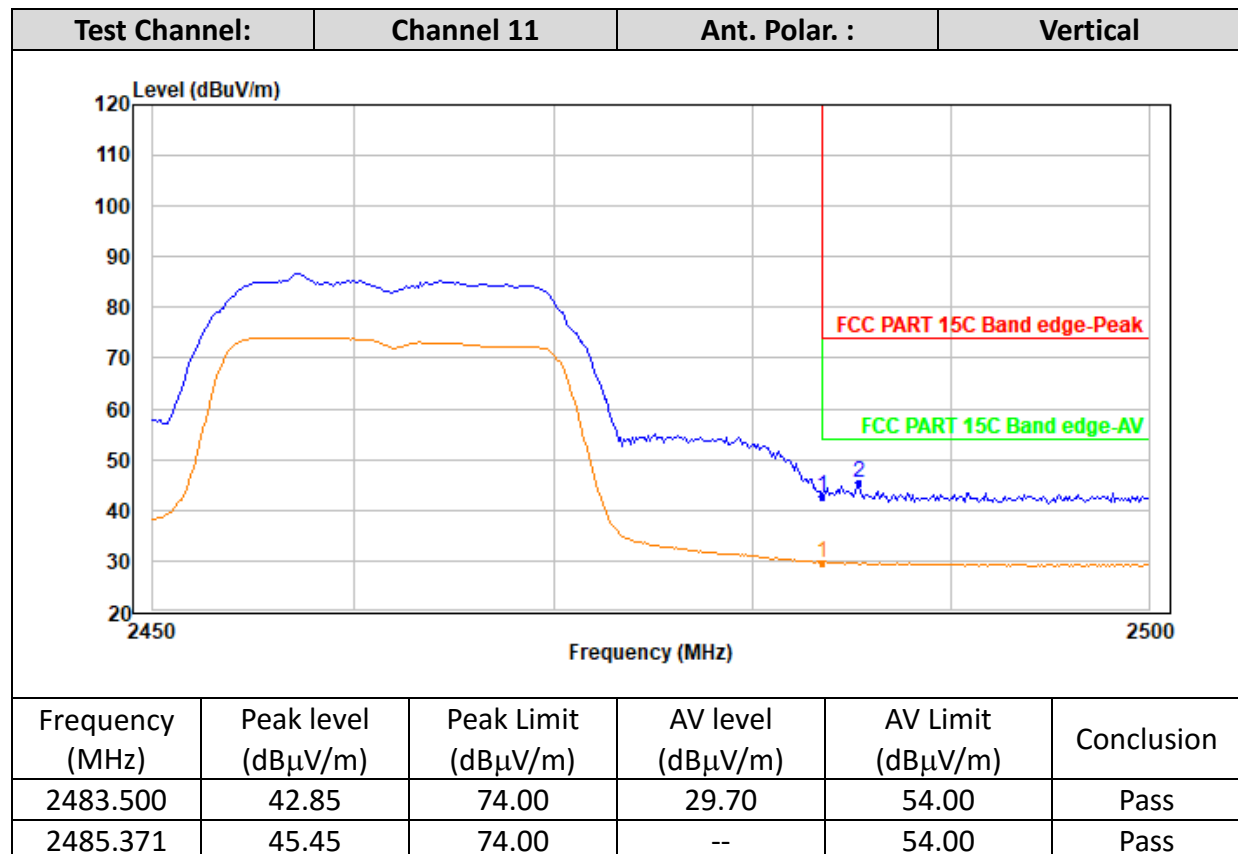
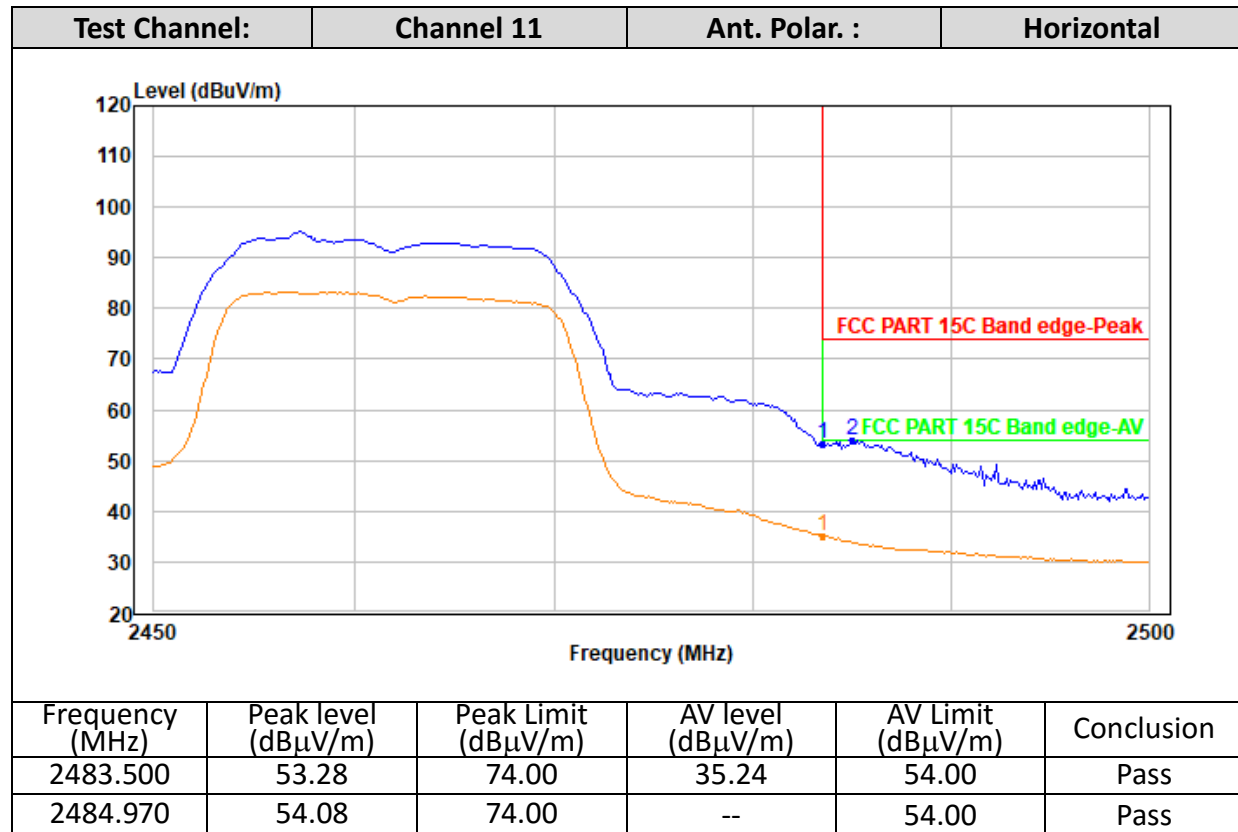


TEST REPORT

IEEE 802.11g

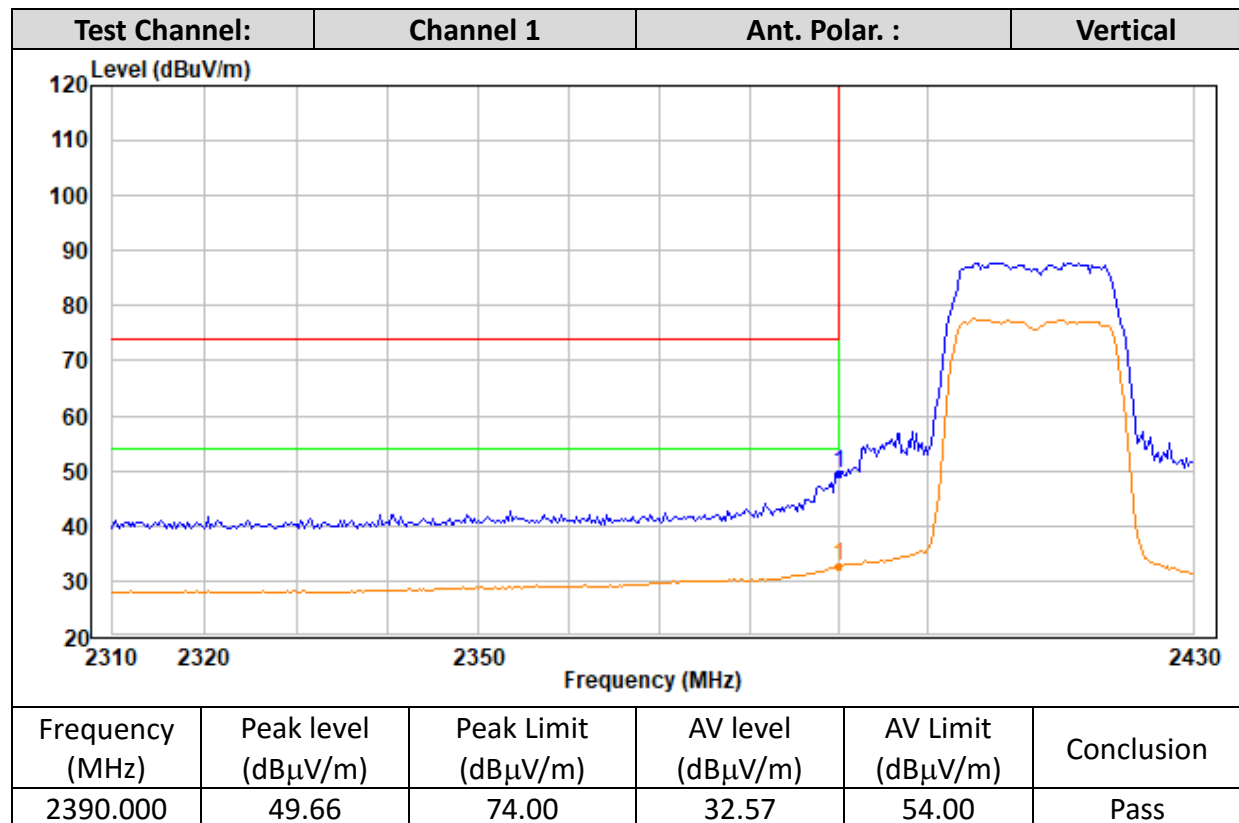
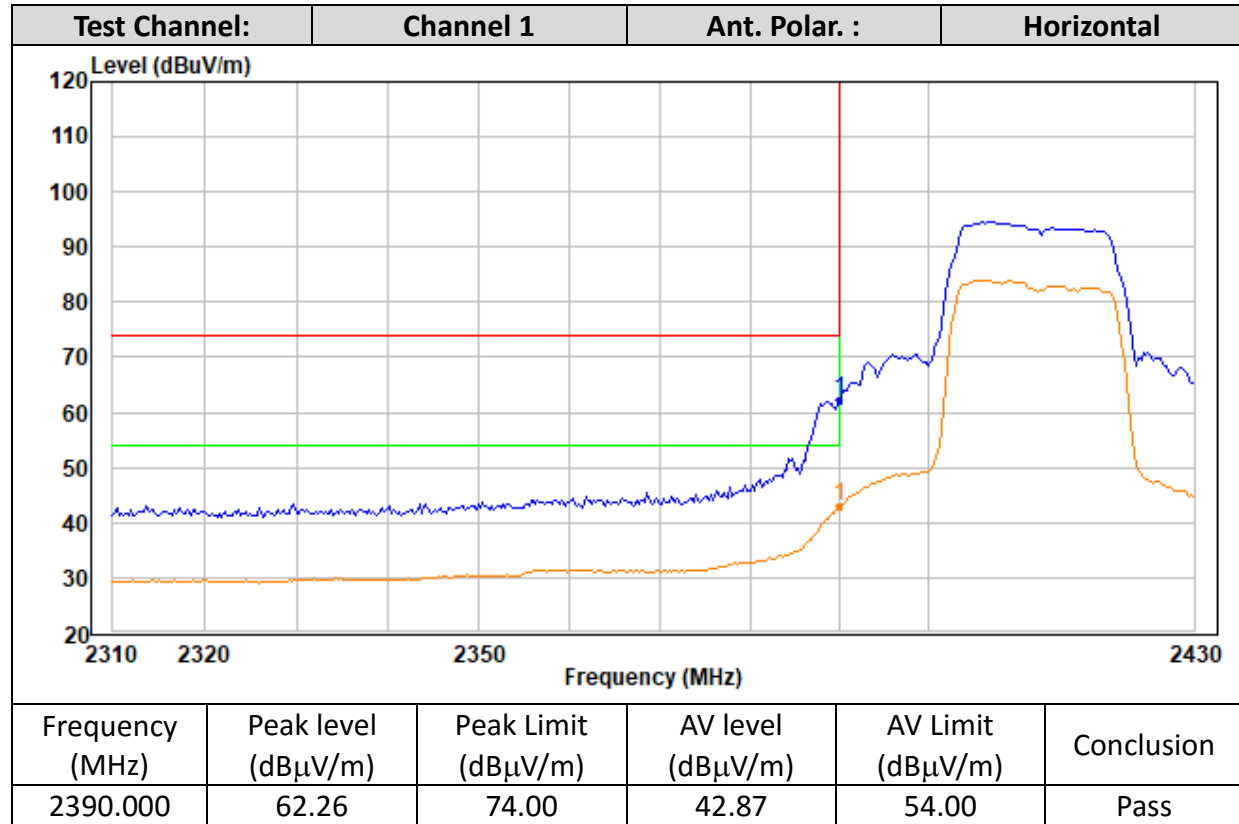


TEST REPORT

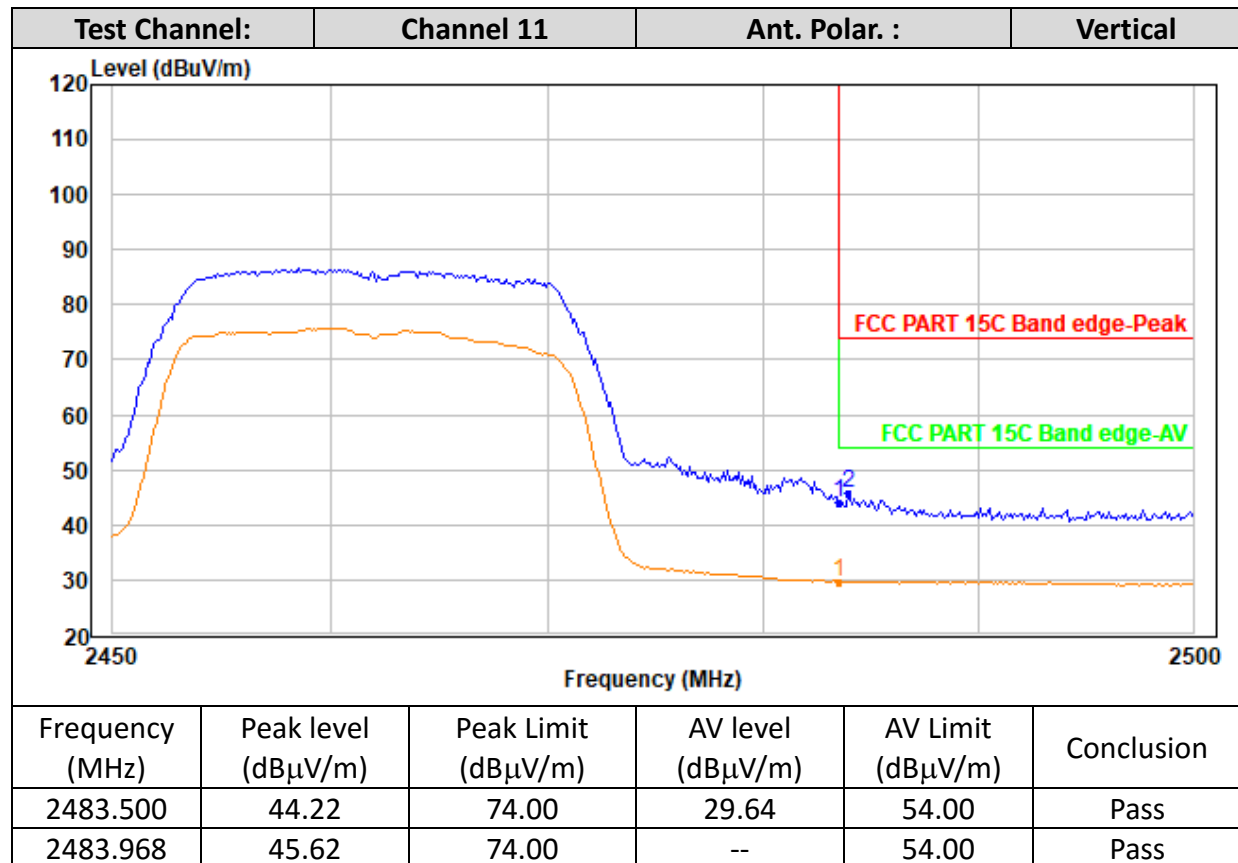
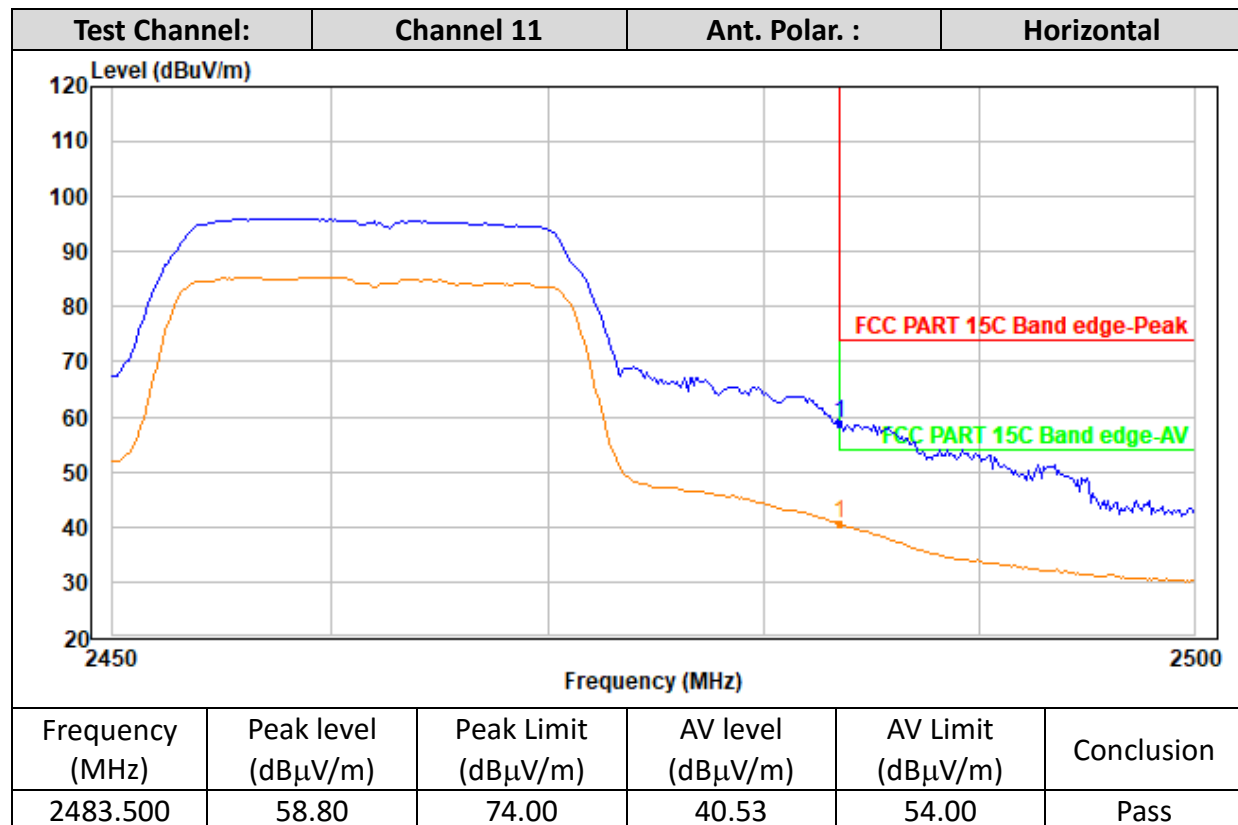


TEST REPORT

IEEE 802.11n-HT20

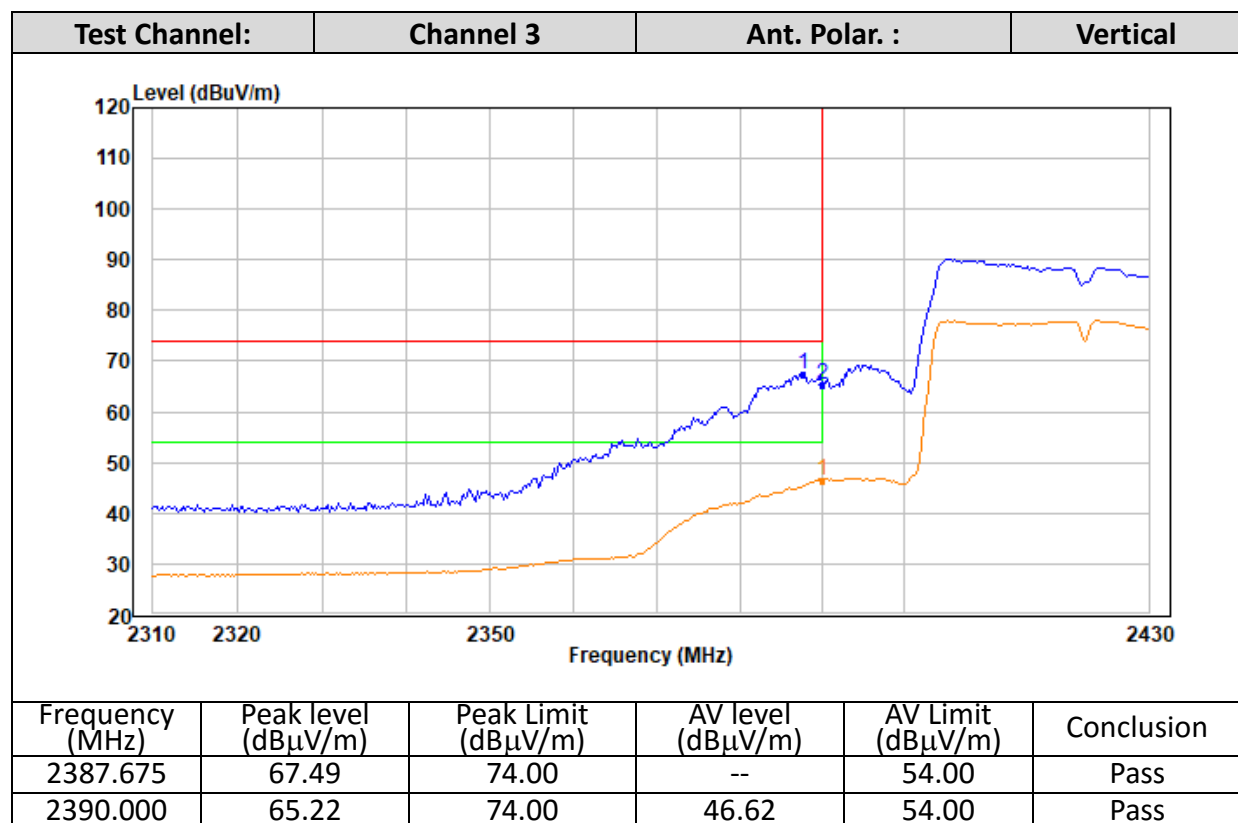
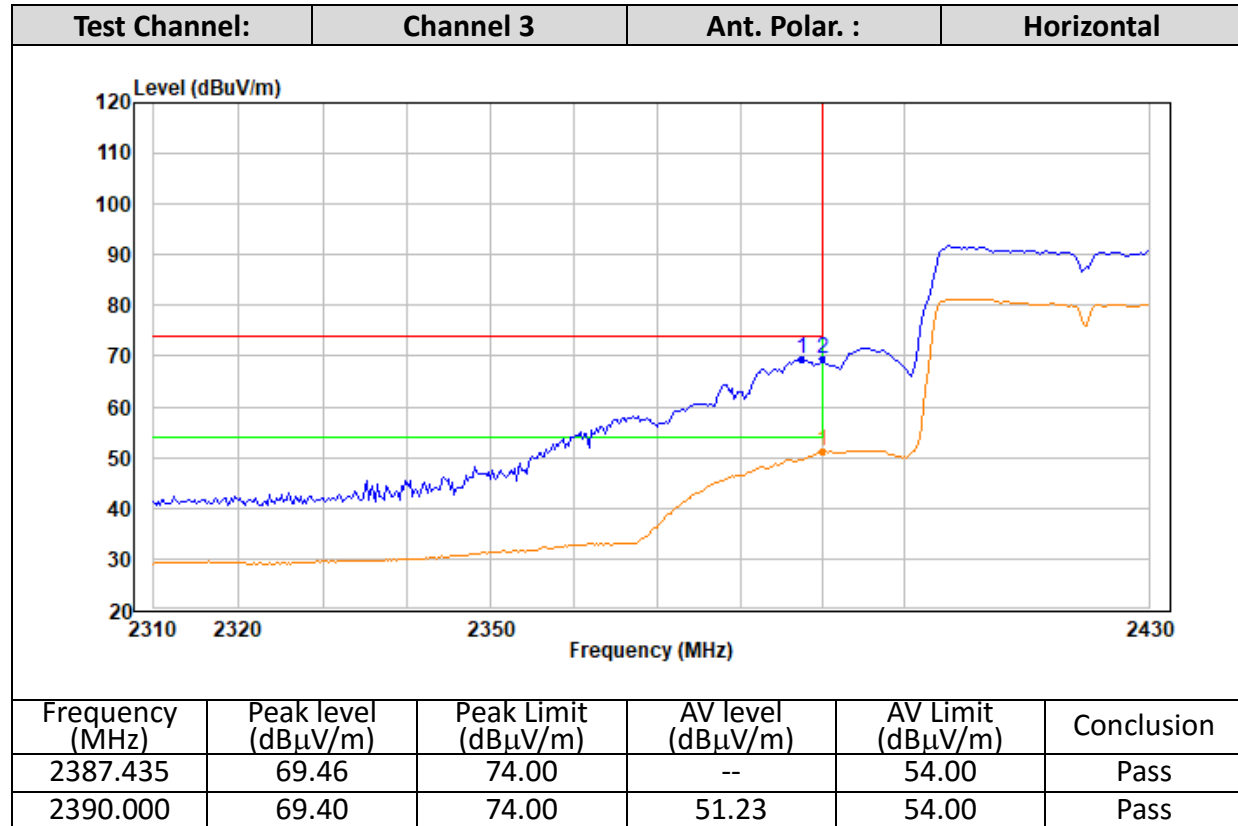


TEST REPORT



TEST REPORT

IEEE 802.11n-HT40



TEST REPORT

