A.4 Band Edge (Authorized-band band-edge)

Note [1]: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.71	5.41	-14.59	Pass
High Channel	-49.25	6.53	-13.47	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-30.67	4.96	-15.05	Pass
High Channel	-45.09	5.51	-14.49	Pass

802.11n-20 MHz Mode:

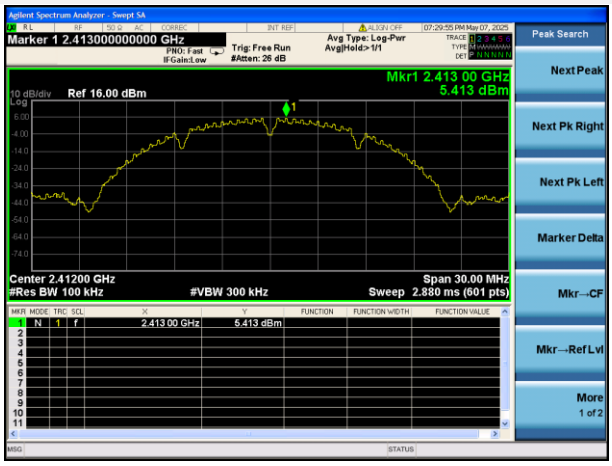
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.53	5.19	-14.81	Pass
High Channel	-45.09	5.18	-14.82	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-33.38	2.88	-17.12	Pass
High Channel	-36.42	2.86	-17.14	Pass

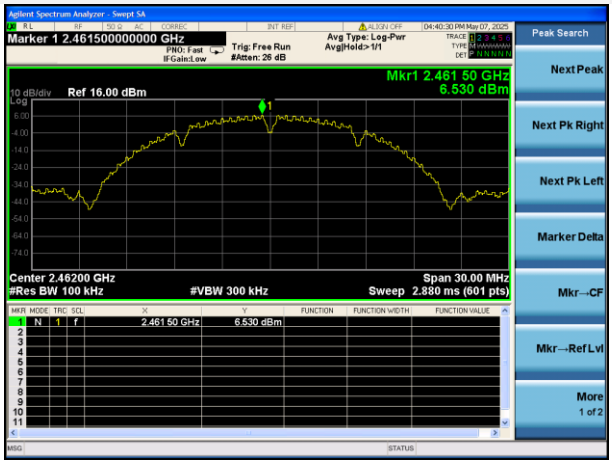
Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL

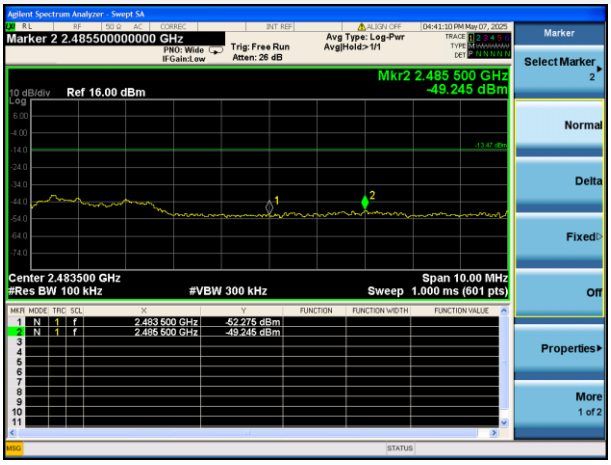


802.11b LOW CHANNEL, BAND EDGE

802.11b HIGH CHANNEL, CARRIER LEVEL



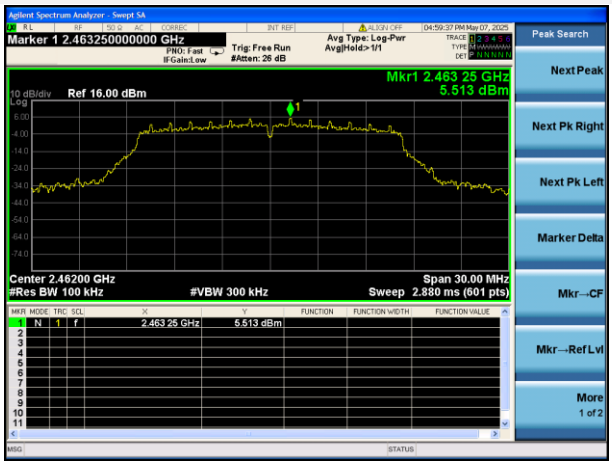
802.11b HIGH CHANNEL, BAND EDGE



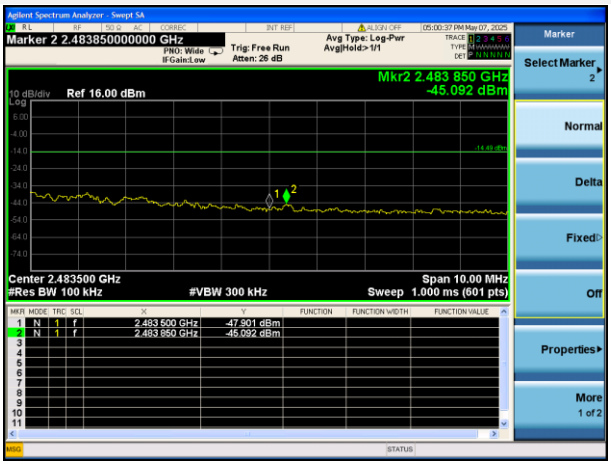
802.11g LOW CHANNEL, CARRIER LEVEL

802.11g LOW CHANNEL, BAND EDGE

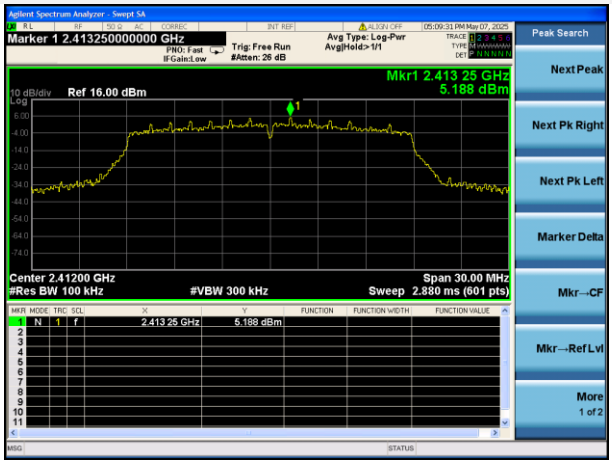
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE

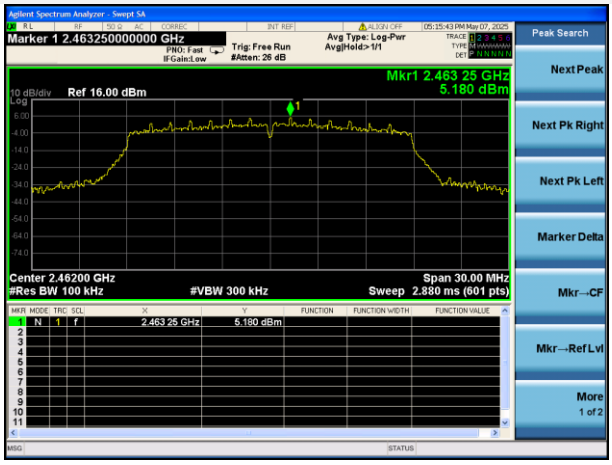


802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL

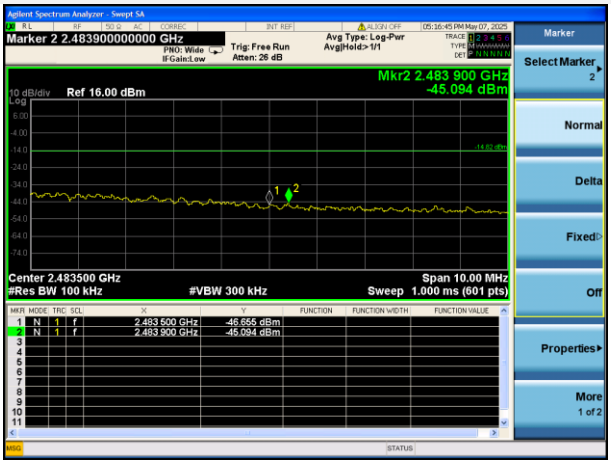


802.11n-20 MHz LOW CHANNEL, BAND EDGE

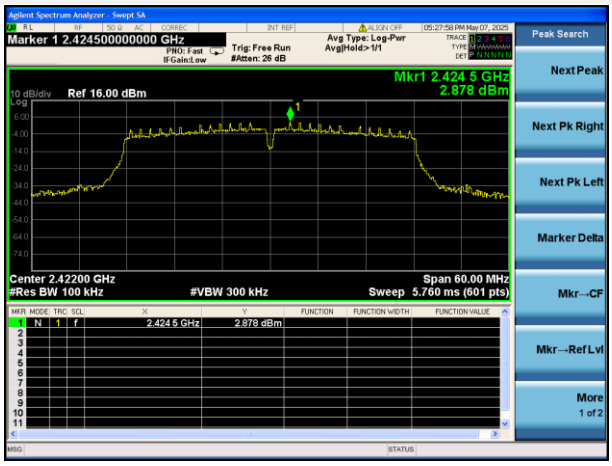
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



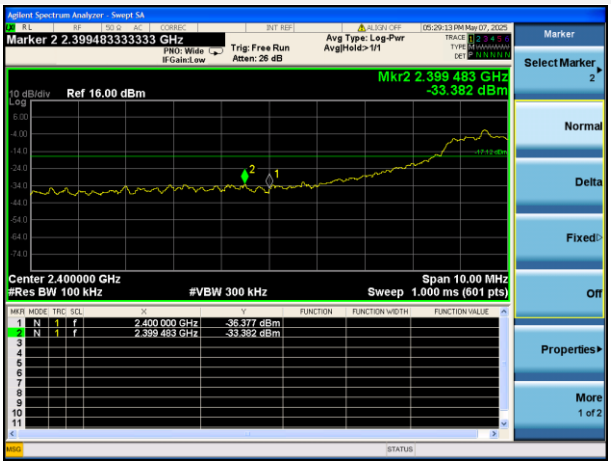
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



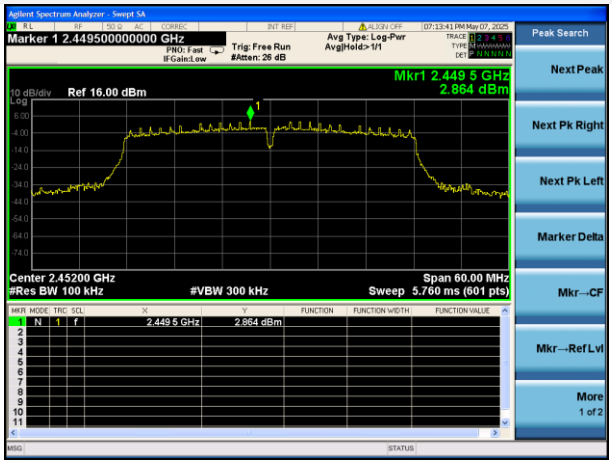
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE

A.5 Conducted Emissions

Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

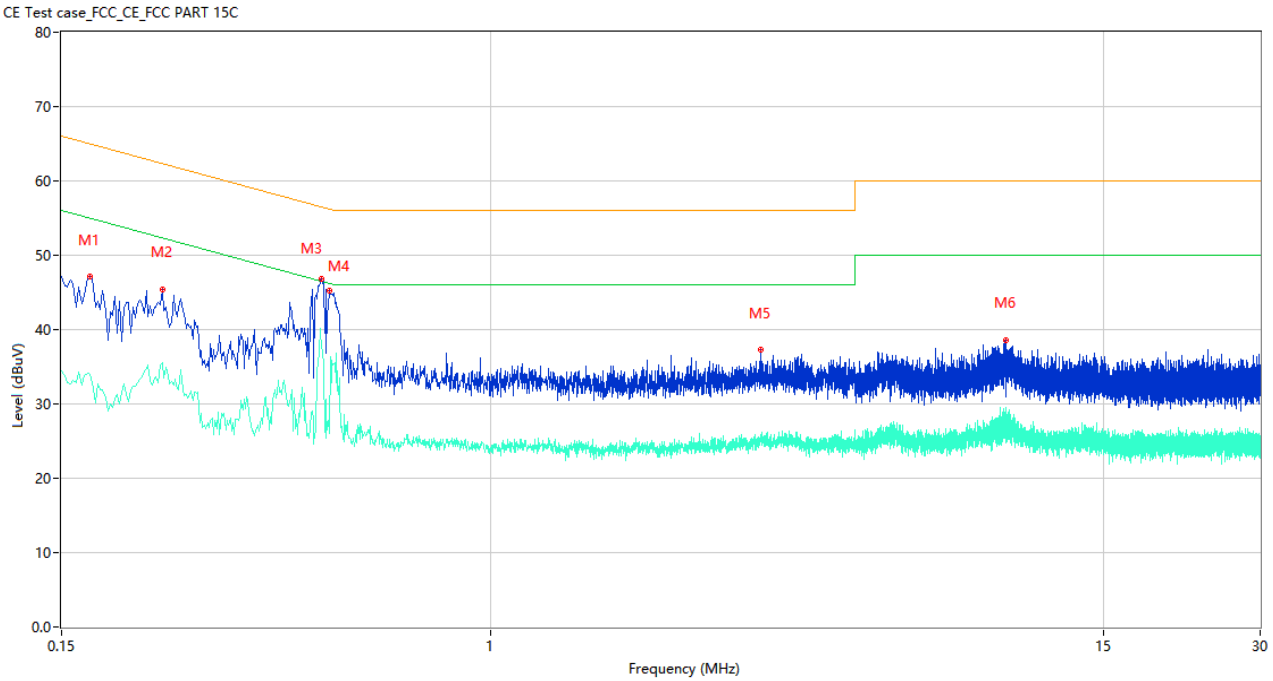
Note [2]: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note [3]: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

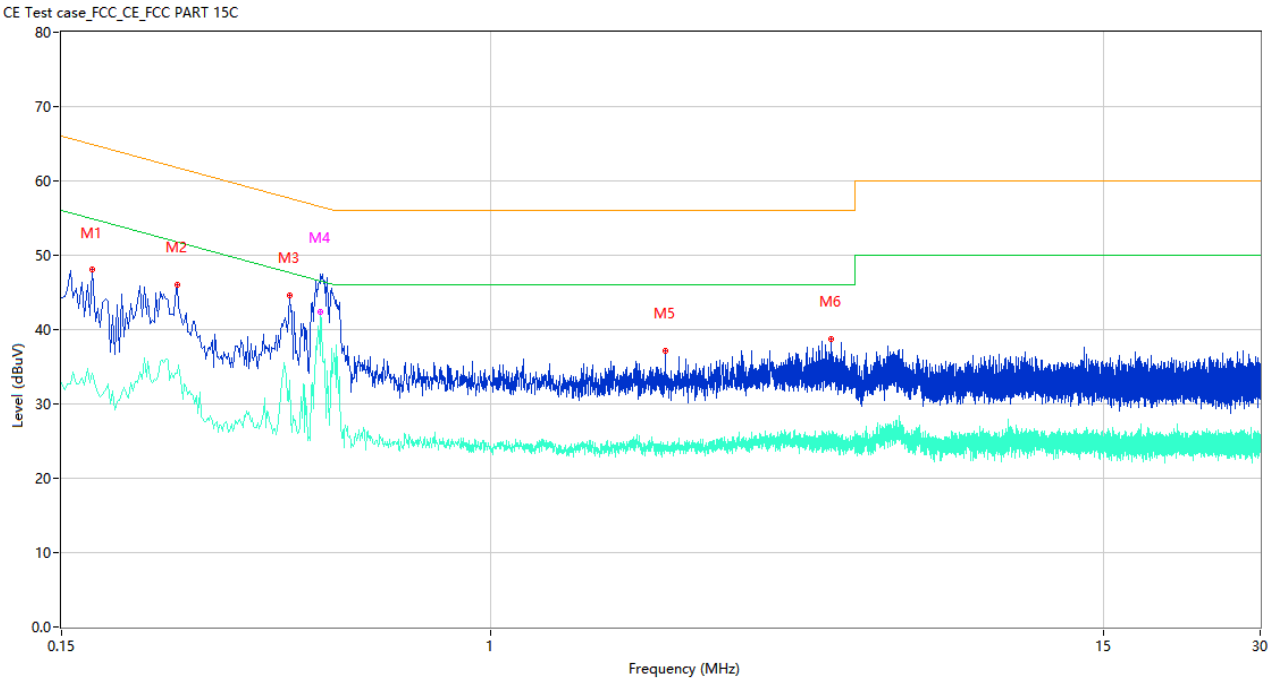
Antenna 1

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	47.14	9.83	64.96	17.82	Peak	L	Pass
1**	0.170	33.90	9.83	54.96	21.06	AV	L	Pass
2	0.234	45.40	9.82	62.31	16.91	Peak	L	Pass
2**	0.234	35.55	9.82	52.31	16.76	AV	L	Pass
3	0.474	46.79	10.02	56.44	9.65	Peak	L	Pass
3**	0.474	37.69	10.02	46.44	8.75	AV	L	Pass
4	0.490	45.24	10.00	56.17	10.93	Peak	L	Pass
4**	0.490	26.09	10.00	46.17	20.08	AV	L	Pass
5	3.306	37.29	10.37	56.00	18.71	Peak	L	Pass
5**	3.306	25.18	10.37	46.00	20.82	AV	L	Pass
6	9.756	38.65	10.39	60.00	21.35	Peak	L	Pass
6**	9.756	28.32	10.39	50.00	21.68	AV	L	Pass

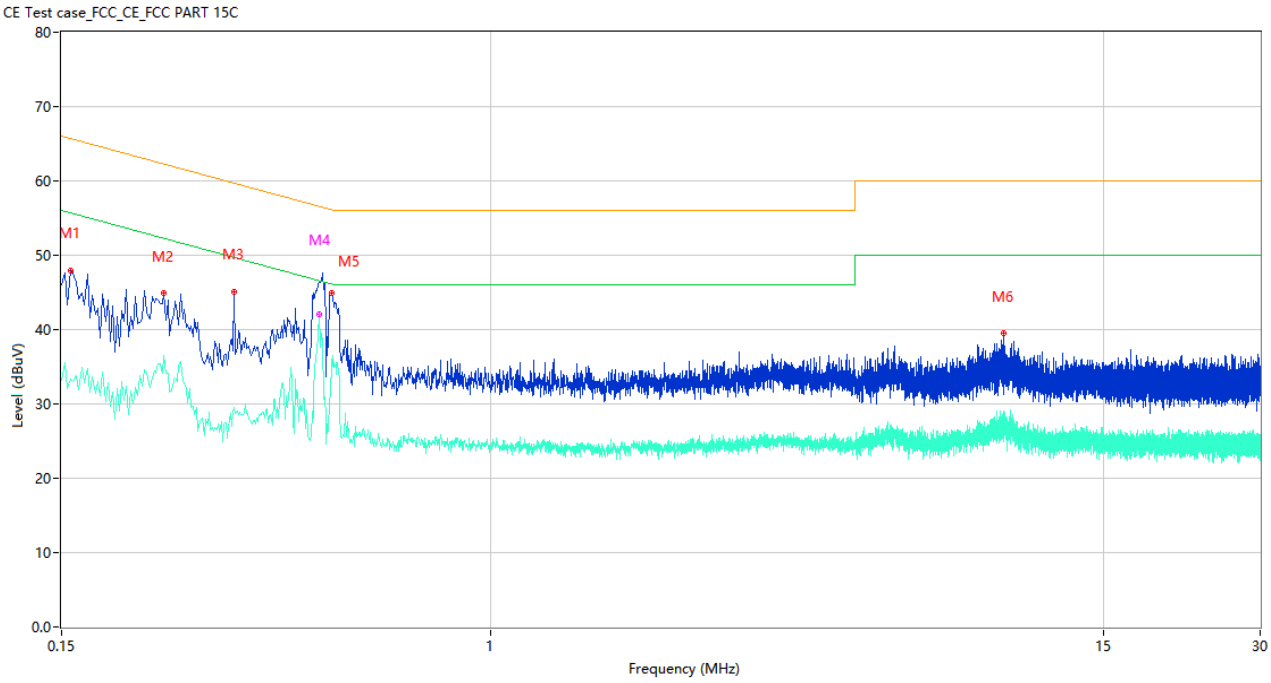
PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	48.03	9.83	64.86	16.83	Peak	N	Pass
1**	0.172	34.12	9.83	54.86	20.74	AV	N	Pass
2	0.250	46.08	9.82	61.76	15.68	Peak	N	Pass
2**	0.250	34.06	9.82	51.76	17.70	AV	N	Pass
3	0.412	44.67	10.46	57.61	12.94	Peak	N	Pass
3**	0.412	33.22	10.46	47.61	14.39	AV	N	Pass
4	0.472	47.39	10.02	56.48	9.09	Peak	N	Pass
4**	0.472	42.35	10.02	46.48	4.13	AV	N	Pass
5	2.166	37.17	10.14	56.00	18.83	Peak	N	Pass
5**	2.166	24.01	10.14	46.00	21.99	AV	N	Pass
6	4.502	38.75	10.44	56.00	17.25	Peak	N	Pass
6**	4.502	25.83	10.44	46.00	20.17	AV	N	Pass

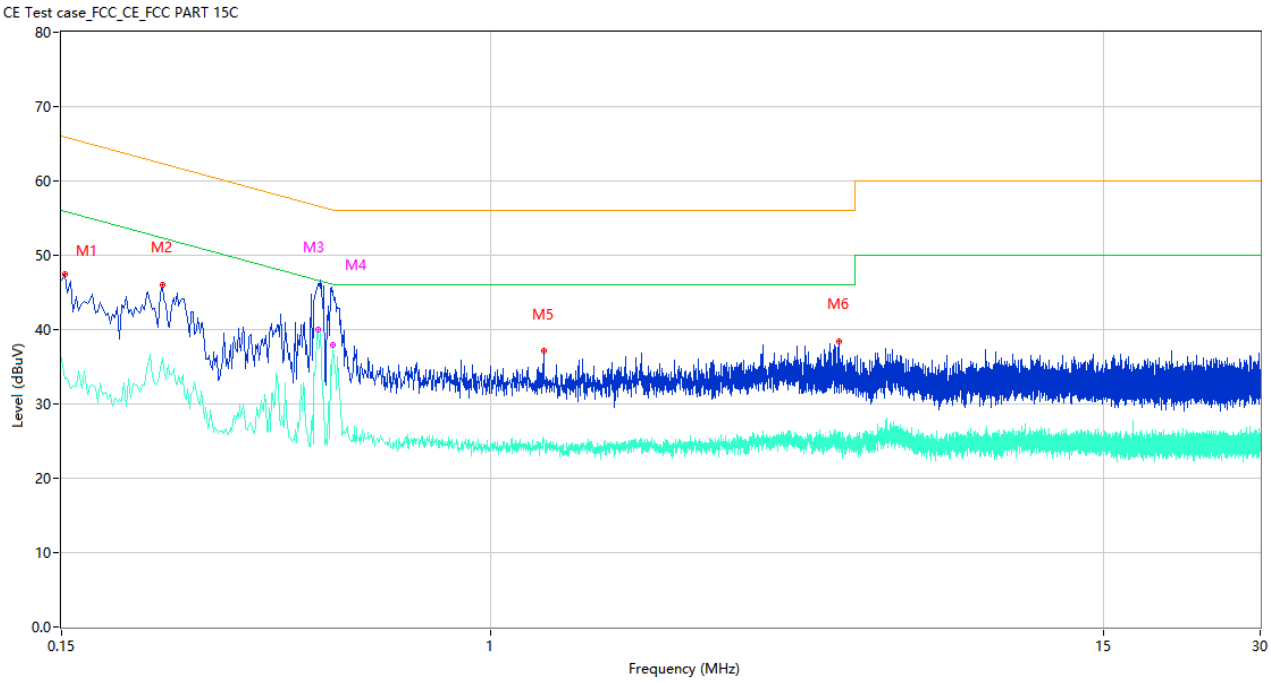
Antenna 2

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	47.95	9.83	65.67	17.72	Peak	L	Pass
1**	0.156	33.32	9.83	55.67	22.35	AV	L	Pass
2	0.236	44.85	9.82	62.24	17.39	Peak	L	Pass
2**	0.236	36.49	9.82	52.24	15.75	AV	L	Pass
3	0.322	45.10	10.25	59.66	14.56	Peak	L	Pass
3**	0.322	29.46	10.25	49.66	20.20	AV	L	Pass
4	0.468	46.57	10.03	56.55	9.98	Peak	L	Pass
4**	0.468	42.07	10.03	46.55	4.48	AV	L	Pass
5	0.496	44.95	10.00	56.07	11.12	Peak	L	Pass
5**	0.496	33.53	10.00	46.07	12.54	AV	L	Pass
6	9.646	39.52	10.25	60.00	20.48	Peak	L	Pass
6**	9.646	27.33	10.25	50.00	22.67	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	47.54	9.83	65.89	18.35	Peak	N	Pass
1**	0.152	33.30	9.83	55.89	22.59	AV	N	Pass
2	0.234	46.06	9.82	62.31	16.25	Peak	N	Pass
2**	0.234	36.17	9.82	52.31	16.14	AV	N	Pass
3	0.466	46.19	10.03	56.58	10.39	Peak	N	Pass
3**	0.466	40.00	10.03	46.58	6.58	AV	N	Pass
4	0.498	45.20	9.99	56.03	10.83	Peak	N	Pass
4**	0.498	38.01	9.99	46.03	8.02	AV	N	Pass
5	1.264	37.07	10.47	56.00	18.93	Peak	N	Pass
5**	1.264	25.04	10.47	46.00	20.96	AV	N	Pass
6	4.674	38.48	10.18	56.00	17.52	Peak	N	Pass
6**	4.674	23.51	10.18	46.00	22.49	AV	N	Pass

A.6 Radiated Emission

Note [1]: The symbol of "--" in the table which means not application.

Note [2]: For the test data above 1 GHz，According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

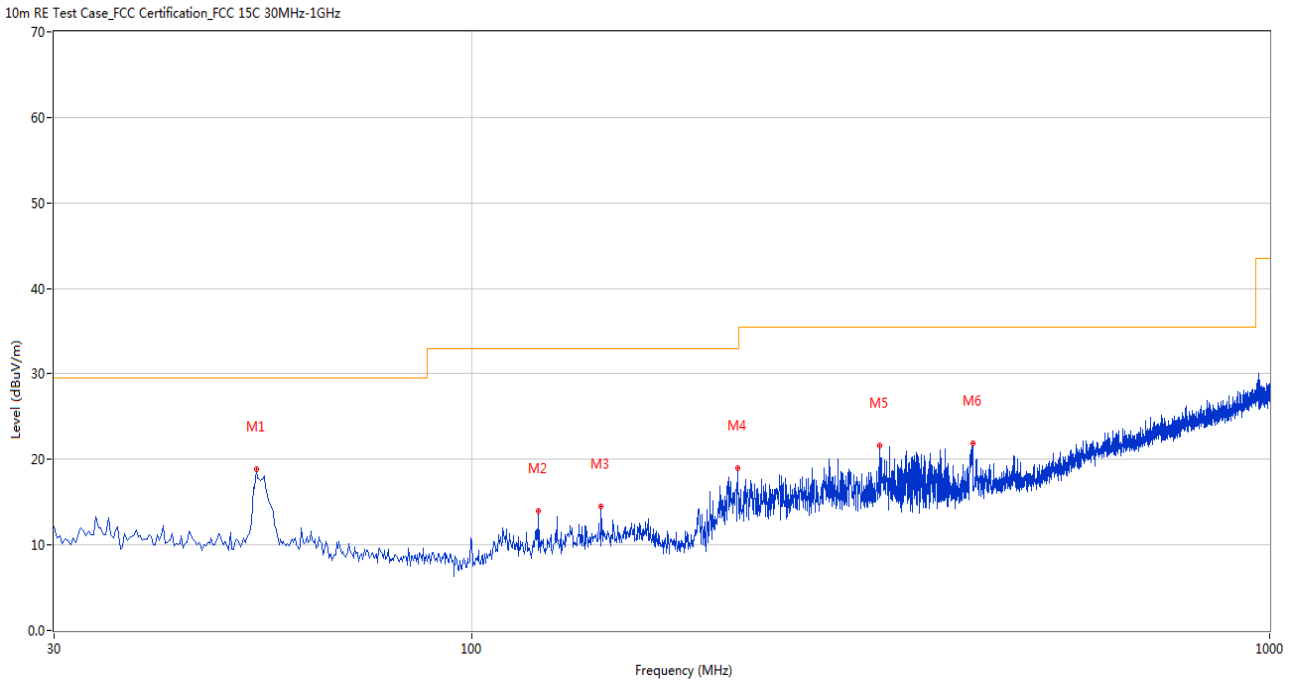
Note [3]: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

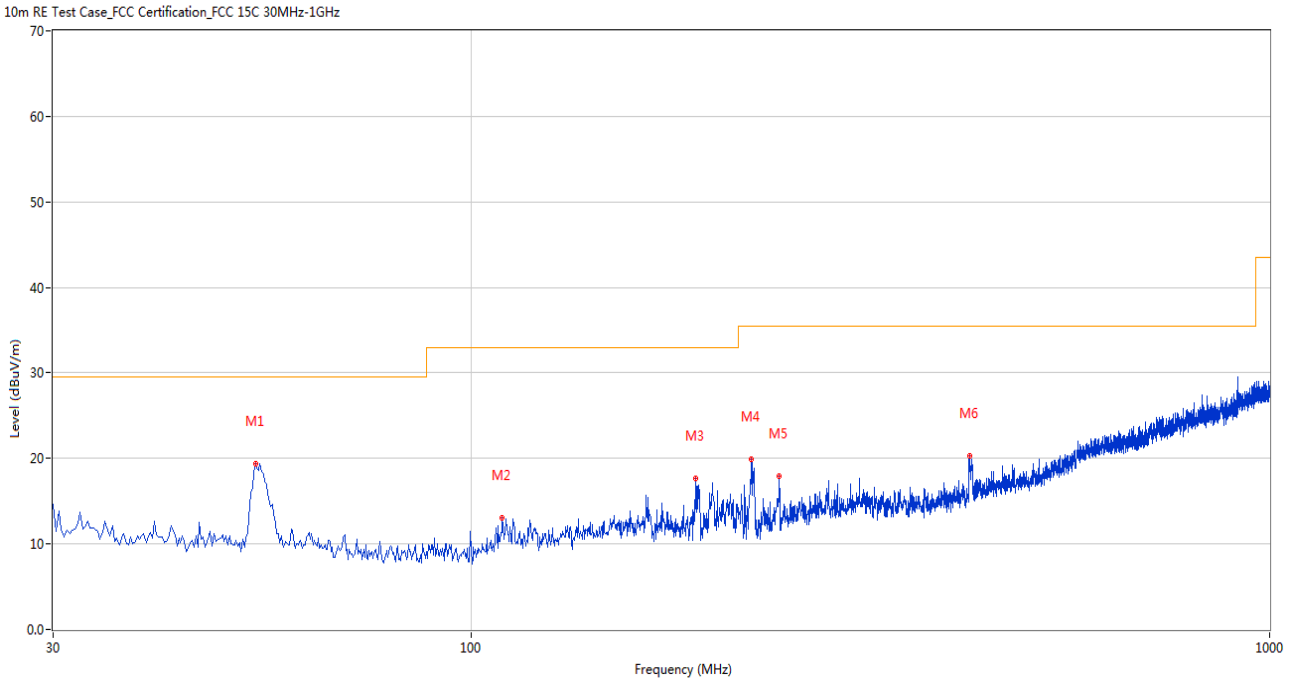
Antenna 1

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.759	18.89	-27.06	29.5	10.61	Peak	0.00	200	Horizontal	Pass
2	121.400	14.00	-28.02	33.0	19.00	Peak	253.00	200	Horizontal	Pass
3	145.401	14.55	-26.39	33.0	18.45	Peak	112.00	200	Horizontal	Pass
4	215.466	18.98	-29.29	33.0	14.02	Peak	359.00	200	Horizontal	Pass
5	325.049	21.61	-24.90	35.5	13.89	Peak	69.00	200	Horizontal	Pass
6	424.449	21.84	-22.04	35.5	13.66	Peak	285.00	200	Horizontal	Pass

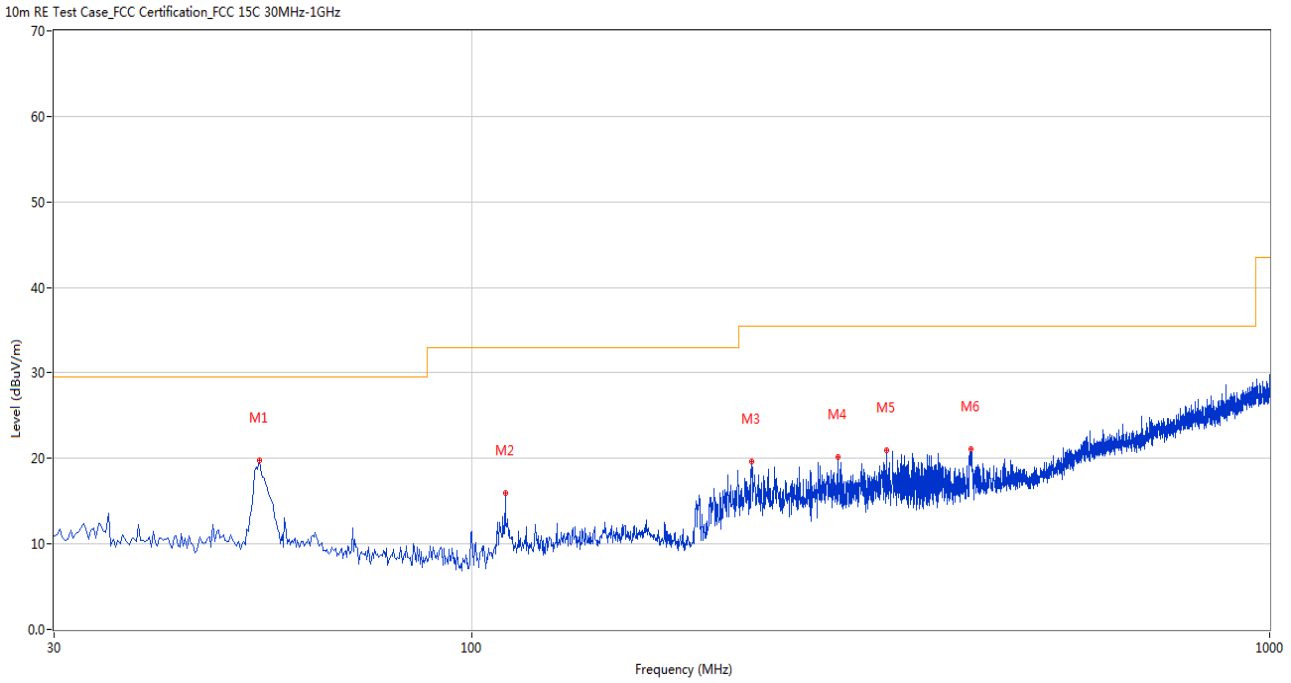
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.759	19.35	-27.06	29.5	10.15	Peak	345.00	200	Vertical	Pass
2	109.520	13.05	-29.07	33.0	19.95	Peak	144.00	100	Vertical	Pass
3	191.222	17.65	-28.81	33.0	15.35	Peak	167.00	100	Vertical	Pass
4	224.679	19.94	-29.03	35.5	15.56	Peak	205.00	100	Vertical	Pass
5	243.104	17.91	-27.85	35.5	17.59	Peak	155.00	100	Vertical	Pass
6	421.055	20.29	-22.03	35.5	15.21	Peak	243.00	100	Vertical	Pass

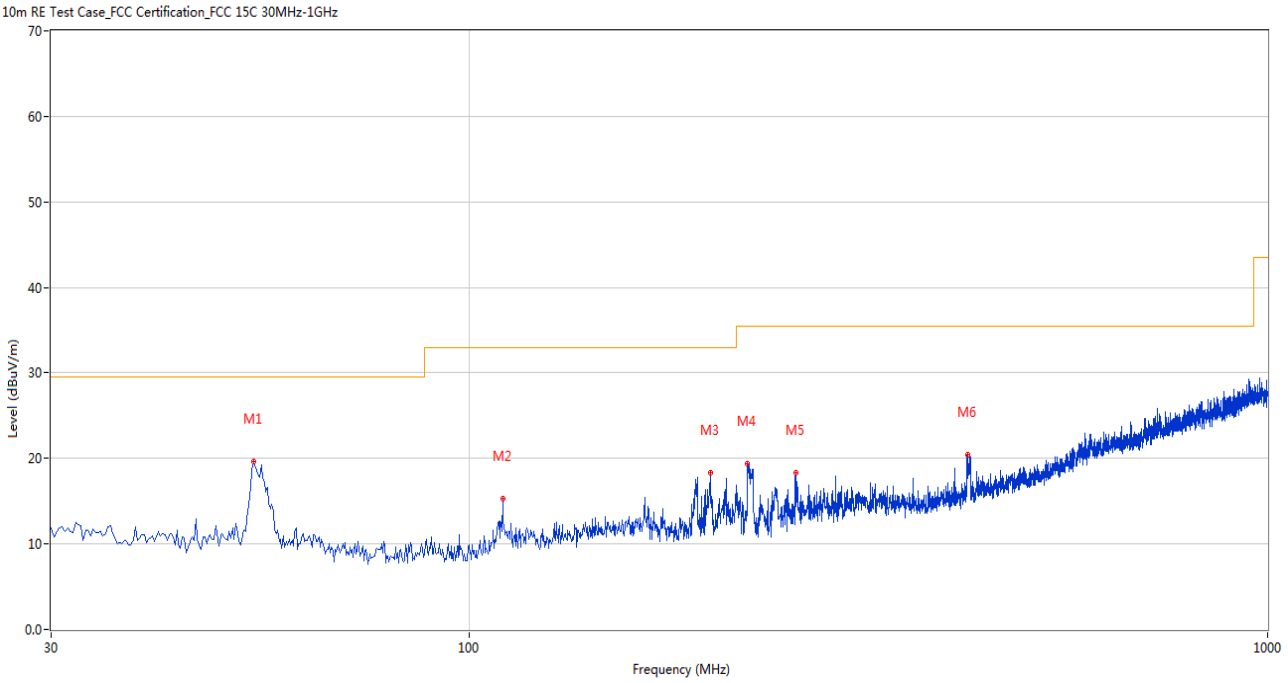
Antenna 2

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.244	19.75	-27.10	29.5	9.75	Peak	329.00	100	Horizontal	Pass
2	110.247	15.94	-28.98	33.0	17.06	Peak	318.00	200	Horizontal	Pass
3	224.679	19.67	-29.03	35.5	15.83	Peak	182.00	200	Horizontal	Pass
4	287.956	20.15	-25.91	35.5	15.35	Peak	199.00	200	Horizontal	Pass
5	331.110	20.99	-24.92	35.5	14.51	Peak	47.00	200	Horizontal	Pass
6	422.994	21.10	-21.95	35.5	14.40	Peak	275.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.759	19.59	-27.06	29.5	9.91	Peak	123.00	100	Vertical	Pass
2	110.247	15.30	-28.98	33.0	17.70	Peak	0.00	200	Vertical	Pass
3	200.435	18.30	-29.19	33.0	14.70	Peak	123.00	100	Vertical	Pass
4	223.224	19.39	-28.97	35.5	16.11	Peak	199.00	100	Vertical	Pass
5	256.438	18.38	-27.04	35.5	17.12	Peak	243.00	100	Vertical	Pass
6	421.055	20.43	-22.03	35.5	15.07	Peak	167.00	100	Vertical	Pass

Note [1]: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note [2]: The spurious above 18G is noise only, do not show on the report.

Note [3]: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note [4]: All antenna were pre tested, but only the worst case has been reported in this report.

Antenna 1

1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.513	42.93	74.0	31.07	Peak	228.00	100	Horizontal	Pass
1**	1332.513	39.32	54.0	14.68	AV	228.00	100	Horizontal	Pass
2	2998.696	48.67	74.0	25.33	Peak	80.00	100	Horizontal	Pass
2**	2998.696	40.10	54.0	13.90	AV	80.00	100	Horizontal	Pass
3	4935.857	48.91	74.0	25.09	Peak	54.00	200	Horizontal	Pass
3**	4935.857	41.69	54.0	12.31	AV	54.00	200	Horizontal	Pass
4	6810.567	53.79	74.0	20.21	Peak	319.00	400	Horizontal	Pass
4**	6810.567	46.64	54.0	7.36	AV	319.00	400	Horizontal	Pass
5	13410.300	53.91	74.0	20.09	Peak	286.00	100	Horizontal	Pass
5**	13410.300	44.21	54.0	9.79	AV	286.00	100	Horizontal	Pass
6	17424.993	56.79	74.0	17.21	Peak	350.00	200	Horizontal	Pass
6**	17424.993	49.45	54.0	4.55	AV	350.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.841	45.03	74.0	28.97	Peak	214.00	200	Vertical	Pass
1**	1333.841	38.46	54.0	15.54	AV	214.00	200	Vertical	Pass
2	2982.262	49.48	74.0	24.52	Peak	206.00	400	Vertical	Pass
2**	2982.262	39.47	54.0	14.53	AV	206.00	400	Vertical	Pass
3	4851.122	50.41	74.0	23.59	Peak	123.00	200	Vertical	Pass
3**	4851.122	40.46	54.0	13.54	AV	123.00	200	Vertical	Pass
4	6604.087	55.60	74.0	18.40	Peak	84.00	300	Vertical	Pass
4**	6604.087	43.38	54.0	10.62	AV	84.00	300	Vertical	Pass
5	13433.446	58.13	74.0	15.87	Peak	106.00	300	Vertical	Pass
5**	13433.446	45.88	54.0	8.12	AV	106.00	300	Vertical	Pass
6	17417.174	58.99	74.0	15.01	Peak	297.00	200	Vertical	Pass
6**	17417.174	49.50	54.0	4.50	AV	297.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.187	41.94	74.0	32.06	Peak	194.00	300	Horizontal	Pass
1**	1331.187	38.80	54.0	15.20	AV	194.00	300	Horizontal	Pass
2	2994.896	47.56	74.0	26.44	Peak	151.00	400	Horizontal	Pass
2**	2994.896	44.09	54.0	9.91	AV	151.00	400	Horizontal	Pass
3	4936.635	52.70	74.0	21.30	Peak	225.00	200	Horizontal	Pass
3**	4936.635	43.71	54.0	10.29	AV	225.00	200	Horizontal	Pass
4	6809.628	54.17	74.0	19.83	Peak	19.00	400	Horizontal	Pass
4**	6809.628	42.31	54.0	11.69	AV	19.00	400	Horizontal	Pass
5	13411.822	58.10	74.0	15.90	Peak	49.00	200	Horizontal	Pass
5**	13411.822	49.12	54.0	4.88	AV	49.00	200	Horizontal	Pass
6	17424.435	55.16	74.0	18.84	Peak	257.00	100	Horizontal	Pass
6**	17424.435	45.66	54.0	8.34	AV	257.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.397	43.59	74.0	30.41	Peak	233.00	100	Vertical	Pass
1**	1335.397	38.94	54.0	15.06	AV	233.00	100	Vertical	Pass
2	2978.025	49.32	74.0	24.68	Peak	214.00	100	Vertical	Pass
2**	2978.025	43.19	54.0	10.81	AV	214.00	100	Vertical	Pass
3	4854.143	46.65	74.0	27.35	Peak	212.00	200	Vertical	Pass
3**	4854.143	42.77	54.0	11.23	AV	212.00	200	Vertical	Pass
4	6606.300	56.49	74.0	17.51	Peak	148.00	200	Vertical	Pass
4**	6606.300	42.64	54.0	11.36	AV	148.00	200	Vertical	Pass
5	13438.245	52.61	74.0	21.39	Peak	268.00	100	Vertical	Pass
5**	13438.245	43.80	54.0	10.20	AV	268.00	100	Vertical	Pass
6	17414.715	57.16	74.0	16.84	Peak	154.00	300	Vertical	Pass
6**	17414.715	48.58	54.0	5.42	AV	154.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.890	46.45	74.0	27.55	Peak	110.00	100	Horizontal	Pass
1**	1332.890	34.09	54.0	19.91	AV	110.00	100	Horizontal	Pass
2	2995.767	49.44	74.0	24.56	Peak	94.00	400	Horizontal	Pass
2**	2995.767	43.06	54.0	10.94	AV	94.00	400	Horizontal	Pass
3	4931.880	49.13	74.0	24.87	Peak	207.00	200	Horizontal	Pass
3**	4931.880	43.65	54.0	10.35	AV	207.00	200	Horizontal	Pass
4	6805.193	52.14	74.0	21.86	Peak	85.00	300	Horizontal	Pass
4**	6805.193	43.56	54.0	10.44	AV	85.00	300	Horizontal	Pass
5	13411.589	57.58	74.0	16.42	Peak	35.00	300	Horizontal	Pass
5**	13411.589	44.76	54.0	9.24	AV	35.00	300	Horizontal	Pass
6	17424.399	56.44	74.0	17.56	Peak	149.00	400	Horizontal	Pass
6**	17424.399	46.72	54.0	7.28	AV	149.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.248	46.46	74.0	27.54	Peak	95.00	400	Vertical	Pass
1**	1332.248	39.88	54.0	14.12	AV	95.00	400	Vertical	Pass
2	2982.597	53.33	74.0	20.67	Peak	126.00	100	Vertical	Pass
2**	2982.597	40.01	54.0	13.99	AV	126.00	100	Vertical	Pass
3	4855.936	49.18	74.0	24.82	Peak	232.00	200	Vertical	Pass
3**	4855.936	40.78	54.0	13.22	AV	232.00	200	Vertical	Pass
4	6611.106	57.21	74.0	16.79	Peak	224.00	200	Vertical	Pass
4**	6611.106	42.88	54.0	11.12	AV	224.00	200	Vertical	Pass
5	13432.778	57.43	74.0	16.57	Peak	76.00	400	Vertical	Pass
5**	13432.778	47.75	54.0	6.25	AV	76.00	400	Vertical	Pass
6	17415.640	58.99	74.0	15.01	Peak	304.00	400	Vertical	Pass
6**	17415.640	44.96	54.0	9.04	AV	304.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.370	44.70	74.0	29.30	Peak	157.00	300	Horizontal	Pass
1**	1328.370	33.84	54.0	20.16	AV	157.00	300	Horizontal	Pass
2	2999.030	50.75	74.0	23.25	Peak	197.00	100	Horizontal	Pass
2**	2999.030	43.92	54.0	10.08	AV	197.00	100	Horizontal	Pass
3	4935.989	48.71	74.0	25.29	Peak	115.00	200	Horizontal	Pass
3**	4935.989	43.57	54.0	10.43	AV	115.00	200	Horizontal	Pass
4	6805.958	56.78	74.0	17.22	Peak	107.00	200	Horizontal	Pass
4**	6805.958	45.09	54.0	8.91	AV	107.00	200	Horizontal	Pass
5	13412.127	54.61	74.0	19.39	Peak	21.00	400	Horizontal	Pass
5**	13412.127	48.37	54.0	5.63	AV	21.00	400	Horizontal	Pass
6	17430.150	57.25	74.0	16.75	Peak	248.00	300	Horizontal	Pass
6**	17430.150	46.01	54.0	7.99	AV	248.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.741	45.75	74.0	28.25	Peak	248.00	200	Vertical	Pass
1**	1332.741	36.54	54.0	17.46	AV	248.00	200	Vertical	Pass
2	2979.599	51.54	74.0	22.46	Peak	279.00	200	Vertical	Pass
2**	2979.599	43.10	54.0	10.90	AV	279.00	200	Vertical	Pass
3	4855.509	49.59	74.0	24.41	Peak	213.00	200	Vertical	Pass
3**	4855.509	41.87	54.0	12.13	AV	213.00	200	Vertical	Pass
4	6609.018	53.91	74.0	20.09	Peak	70.00	100	Vertical	Pass
4**	6609.018	43.51	54.0	10.49	AV	70.00	100	Vertical	Pass
5	13432.868	53.86	74.0	20.14	Peak	324.00	300	Vertical	Pass
5**	13432.868	47.95	54.0	6.05	AV	324.00	300	Vertical	Pass
6	17419.810	55.10	74.0	18.90	Peak	66.00	100	Vertical	Pass
6**	17419.810	44.38	54.0	9.62	AV	66.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.888	45.94	74.0	28.06	Peak	40.00	400	Horizontal	Pass
1**	1326.888	35.82	54.0	18.18	AV	40.00	400	Horizontal	Pass
2	2993.594	48.21	74.0	25.79	Peak	165.00	300	Horizontal	Pass
2**	2993.594	38.59	54.0	15.41	AV	165.00	300	Horizontal	Pass
3	4935.748	52.10	74.0	21.90	Peak	319.00	200	Horizontal	Pass
3**	4935.748	42.61	54.0	11.39	AV	319.00	200	Horizontal	Pass
4	6807.251	54.16	74.0	19.84	Peak	318.00	300	Horizontal	Pass
4**	6807.251	45.59	54.0	8.41	AV	318.00	300	Horizontal	Pass
5	13411.880	55.69	74.0	18.31	Peak	326.00	200	Horizontal	Pass
5**	13411.880	46.81	54.0	7.19	AV	326.00	200	Horizontal	Pass
6	17424.118	55.25	74.0	18.75	Peak	96.00	300	Horizontal	Pass
6**	17424.118	45.92	54.0	8.08	AV	96.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.161	44.60	74.0	29.40	Peak	117.00	200	Vertical	Pass
1**	1336.161	39.23	54.0	14.77	AV	117.00	200	Vertical	Pass
2	2979.338	48.99	74.0	25.01	Peak	48.00	100	Vertical	Pass
2**	2979.338	39.20	54.0	14.80	AV	48.00	100	Vertical	Pass
3	4856.056	47.71	74.0	26.29	Peak	175.00	200	Vertical	Pass
3**	4856.056	37.91	54.0	16.09	AV	175.00	200	Vertical	Pass
4	6607.070	53.48	74.0	20.52	Peak	42.00	400	Vertical	Pass
4**	6607.070	47.19	54.0	6.81	AV	42.00	400	Vertical	Pass
5	13430.981	55.80	74.0	18.20	Peak	276.00	300	Vertical	Pass
5**	13430.981	47.16	54.0	6.84	AV	276.00	300	Vertical	Pass
6	17419.560	55.77	74.0	18.23	Peak	78.00	200	Vertical	Pass
6**	17419.560	50.17	54.0	3.83	AV	78.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.067	46.33	74.0	27.67	Peak	18.00	300	Horizontal	Pass
1**	1326.067	34.38	54.0	19.62	AV	18.00	300	Horizontal	Pass
2	2994.522	51.61	74.0	22.39	Peak	4.00	200	Horizontal	Pass
2**	2994.522	39.32	54.0	14.68	AV	4.00	200	Horizontal	Pass
3	4932.750	49.68	74.0	24.32	Peak	201.00	200	Horizontal	Pass
3**	4932.750	39.56	54.0	14.44	AV	201.00	200	Horizontal	Pass
4	6810.426	55.32	74.0	18.68	Peak	133.00	400	Horizontal	Pass
4**	6810.426	46.63	54.0	7.37	AV	133.00	400	Horizontal	Pass
5	13408.884	53.30	74.0	20.70	Peak	7.00	100	Horizontal	Pass
5**	13408.884	45.80	54.0	8.20	AV	7.00	100	Horizontal	Pass
6	17424.624	54.11	74.0	19.89	Peak	42.00	100	Horizontal	Pass
6**	17424.624	49.19	54.0	4.81	AV	42.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.030	44.41	74.0	29.59	Peak	230.00	200	Vertical	Pass
1**	1329.030	37.61	54.0	16.39	AV	230.00	200	Vertical	Pass
2	2985.502	47.61	74.0	26.39	Peak	352.00	200	Vertical	Pass
2**	2985.502	40.94	54.0	13.06	AV	352.00	200	Vertical	Pass
3	4857.355	50.23	74.0	23.77	Peak	210.00	200	Vertical	Pass
3**	4857.355	39.57	54.0	14.43	AV	210.00	200	Vertical	Pass
4	6603.899	55.88	74.0	18.12	Peak	209.00	100	Vertical	Pass
4**	6603.899	47.68	54.0	6.32	AV	209.00	100	Vertical	Pass
5	13431.005	53.46	74.0	20.54	Peak	204.00	400	Vertical	Pass
5**	13431.005	44.03	54.0	9.97	AV	204.00	400	Vertical	Pass
6	17419.473	55.05	74.0	18.95	Peak	88.00	400	Vertical	Pass
6**	17419.473	50.00	54.0	4.00	AV	88.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.248	45.79	74.0	28.21	Peak	179.00	300	Horizontal	Pass
1**	1330.248	35.14	54.0	18.86	AV	179.00	300	Horizontal	Pass
2	2999.172	51.49	74.0	22.51	Peak	164.00	300	Horizontal	Pass
2**	2999.172	40.92	54.0	13.08	AV	164.00	300	Horizontal	Pass
3	4931.391	52.78	74.0	21.22	Peak	237.00	200	Horizontal	Pass
3**	4931.391	42.67	54.0	11.33	AV	237.00	200	Horizontal	Pass
4	6808.979	52.54	74.0	21.46	Peak	314.00	200	Horizontal	Pass
4**	6808.979	46.04	54.0	7.96	AV	314.00	200	Horizontal	Pass
5	13412.931	54.18	74.0	19.82	Peak	245.00	300	Horizontal	Pass
5**	13412.931	45.32	54.0	8.68	AV	245.00	300	Horizontal	Pass
6	17426.115	53.77	74.0	20.23	Peak	65.00	100	Horizontal	Pass
6**	17426.115	47.32	54.0	6.68	AV	65.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.247	43.30	74.0	30.70	Peak	306.00	400	Vertical	Pass
1**	1331.247	37.81	54.0	16.19	AV	306.00	400	Vertical	Pass
2	2979.053	50.02	74.0	23.98	Peak	112.00	100	Vertical	Pass
2**	2979.053	44.20	54.0	9.80	AV	112.00	100	Vertical	Pass
3	4857.404	49.34	74.0	24.66	Peak	145.00	200	Vertical	Pass
3**	4857.404	38.66	54.0	15.34	AV	145.00	200	Vertical	Pass
4	6603.299	53.35	74.0	20.65	Peak	164.00	400	Vertical	Pass
4**	6603.299	46.88	54.0	7.12	AV	164.00	400	Vertical	Pass
5	13436.048	55.17	74.0	18.83	Peak	187.00	400	Vertical	Pass
5**	13436.048	45.53	54.0	8.47	AV	187.00	400	Vertical	Pass
6	17419.714	57.26	74.0	16.74	Peak	223.00	300	Vertical	Pass
6**	17419.714	47.72	54.0	6.28	AV	223.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.632	41.80	74.0	32.20	Peak	313.00	400	Horizontal	Pass
1**	1333.632	38.03	54.0	15.97	AV	313.00	400	Horizontal	Pass
2	2995.866	47.57	74.0	26.43	Peak	203.00	100	Horizontal	Pass
2**	2995.866	42.27	54.0	11.73	AV	203.00	100	Horizontal	Pass
3	4936.030	53.51	74.0	20.49	Peak	47.00	200	Horizontal	Pass
3**	4936.030	43.79	54.0	10.21	AV	47.00	200	Horizontal	Pass
4	6804.281	52.19	74.0	21.81	Peak	286.00	400	Horizontal	Pass
4**	6804.281	45.96	54.0	8.04	AV	286.00	400	Horizontal	Pass
5	13412.602	55.64	74.0	18.36	Peak	90.00	400	Horizontal	Pass
5**	13412.602	48.25	54.0	5.75	AV	90.00	400	Horizontal	Pass
6	17423.738	54.11	74.0	19.89	Peak	255.00	300	Horizontal	Pass
6**	17423.738	45.48	54.0	8.52	AV	255.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.153	44.47	74.0	29.53	Peak	202.00	200	Vertical	Pass
1**	1333.153	35.54	54.0	18.46	AV	202.00	200	Vertical	Pass
2	2985.869	52.95	74.0	21.05	Peak	183.00	300	Vertical	Pass
2**	2985.869	41.54	54.0	12.46	AV	183.00	300	Vertical	Pass
3	4850.426	49.62	74.0	24.38	Peak	98.00	200	Vertical	Pass
3**	4850.426	38.61	54.0	15.39	AV	98.00	200	Vertical	Pass
4	6606.472	56.52	74.0	17.48	Peak	204.00	300	Vertical	Pass
4**	6606.472	45.00	54.0	9.00	AV	204.00	300	Vertical	Pass
5	13431.484	53.88	74.0	20.12	Peak	94.00	200	Vertical	Pass
5**	13431.484	46.85	54.0	7.15	AV	94.00	200	Vertical	Pass
6	17413.402	58.48	74.0	15.52	Peak	314.00	100	Vertical	Pass
6**	17413.402	45.63	54.0	8.37	AV	314.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.458	43.38	74.0	30.62	Peak	346.00	400	Horizontal	Pass
1**	1326.458	34.23	54.0	19.77	AV	346.00	400	Horizontal	Pass
2	2999.343	49.74	74.0	24.26	Peak	77.00	100	Horizontal	Pass
2**	2999.343	39.94	54.0	14.06	AV	77.00	100	Horizontal	Pass
3	4933.474	50.07	74.0	23.93	Peak	107.00	200	Horizontal	Pass
3**	4933.474	44.02	54.0	9.98	AV	107.00	200	Horizontal	Pass
4	6805.944	54.66	74.0	19.34	Peak	168.00	300	Horizontal	Pass
4**	6805.944	42.73	54.0	11.27	AV	168.00	300	Horizontal	Pass
5	13414.904	56.35	74.0	17.65	Peak	319.00	400	Horizontal	Pass
5**	13414.904	45.05	54.0	8.95	AV	319.00	400	Horizontal	Pass
6	17429.550	57.13	74.0	16.87	Peak	355.00	100	Horizontal	Pass
6**	17429.550	46.04	54.0	7.96	AV	355.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.868	45.10	74.0	28.90	Peak	167.00	100	Vertical	Pass
1**	1336.868	40.20	54.0	13.80	AV	167.00	100	Vertical	Pass
2	2984.450	51.71	74.0	22.29	Peak	36.00	300	Vertical	Pass
2**	2984.450	43.69	54.0	10.31	AV	36.00	300	Vertical	Pass
3	4856.958	47.39	74.0	26.61	Peak	238.00	200	Vertical	Pass
3**	4856.958	41.00	54.0	13.00	AV	238.00	200	Vertical	Pass
4	6610.507	52.02	74.0	21.98	Peak	240.00	300	Vertical	Pass
4**	6610.507	45.64	54.0	8.36	AV	240.00	300	Vertical	Pass
5	13435.902	53.89	74.0	20.11	Peak	324.00	400	Vertical	Pass
5**	13435.902	43.73	54.0	10.27	AV	324.00	400	Vertical	Pass
6	17419.669	59.62	74.0	14.38	Peak	24.00	200	Vertical	Pass
6**	17419.669	49.44	54.0	4.56	AV	24.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.507	45.01	74.0	28.99	Peak	54.00	200	Horizontal	Pass
1**	1333.507	33.80	54.0	20.20	AV	54.00	200	Horizontal	Pass
2	2999.811	50.20	74.0	23.80	Peak	187.00	400	Horizontal	Pass
2**	2999.811	42.21	54.0	11.79	AV	187.00	400	Horizontal	Pass
3	4932.833	51.34	74.0	22.66	Peak	178.00	200	Horizontal	Pass
3**	4932.833	42.77	54.0	11.23	AV	178.00	200	Horizontal	Pass
4	6810.162	52.59	74.0	21.41	Peak	138.00	400	Horizontal	Pass
4**	6810.162	47.39	54.0	6.61	AV	138.00	400	Horizontal	Pass
5	13413.176	53.00	74.0	21.00	Peak	105.00	300	Horizontal	Pass
5**	13413.176	46.66	54.0	7.34	AV	105.00	300	Horizontal	Pass
6	17424.047	58.23	74.0	15.77	Peak	45.00	100	Horizontal	Pass
6**	17424.047	45.23	54.0	8.77	AV	45.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.797	43.21	74.0	30.79	Peak	351.00	200	Vertical	Pass
1**	1335.797	38.14	54.0	15.86	AV	351.00	200	Vertical	Pass
2	2984.113	53.20	74.0	20.80	Peak	233.00	100	Vertical	Pass
2**	2984.113	39.56	54.0	14.44	AV	233.00	100	Vertical	Pass
3	4852.011	51.31	74.0	22.69	Peak	51.00	200	Vertical	Pass
3**	4852.011	42.69	54.0	11.31	AV	51.00	200	Vertical	Pass
4	6607.333	52.79	74.0	21.21	Peak	243.00	400	Vertical	Pass
4**	6607.333	47.98	54.0	6.02	AV	243.00	400	Vertical	Pass
5	13437.088	55.88	74.0	18.12	Peak	21.00	400	Vertical	Pass
5**	13437.088	48.84	54.0	5.16	AV	21.00	400	Vertical	Pass
6	17416.386	58.33	74.0	15.67	Peak	134.00	400	Vertical	Pass
6**	17416.386	48.49	54.0	5.51	AV	134.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.861	44.50	74.0	29.50	Peak	113.00	200	Horizontal	Pass
1**	1332.861	39.63	54.0	14.37	AV	113.00	200	Horizontal	Pass
2	2995.562	49.59	74.0	24.41	Peak	348.00	200	Horizontal	Pass
2**	2995.562	39.03	54.0	14.97	AV	348.00	200	Horizontal	Pass
3	4931.179	49.34	74.0	24.66	Peak	135.00	200	Horizontal	Pass
3**	4931.179	40.07	54.0	13.93	AV	135.00	200	Horizontal	Pass
4	6808.493	55.12	74.0	18.88	Peak	7.00	400	Horizontal	Pass
4**	6808.493	41.99	54.0	12.01	AV	7.00	400	Horizontal	Pass
5	13415.029	53.11	74.0	20.89	Peak	27.00	400	Horizontal	Pass
5**	13415.029	47.84	54.0	6.16	AV	27.00	400	Horizontal	Pass
6	17422.371	53.16	74.0	20.84	Peak	357.00	200	Horizontal	Pass
6**	17422.371	44.78	54.0	9.22	AV	357.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.651	42.48	74.0	31.52	Peak	254.00	200	Vertical	Pass
1**	1334.651	38.75	54.0	15.25	AV	254.00	200	Vertical	Pass
2	2979.116	51.70	74.0	22.30	Peak	179.00	100	Vertical	Pass
2**	2979.116	41.16	54.0	12.84	AV	179.00	100	Vertical	Pass
3	4851.291	47.51	74.0	26.49	Peak	274.00	200	Vertical	Pass
3**	4851.291	38.75	54.0	15.25	AV	274.00	200	Vertical	Pass
4	6610.120	53.49	74.0	20.51	Peak	332.00	300	Vertical	Pass
4**	6610.120	45.33	54.0	8.67	AV	332.00	300	Vertical	Pass
5	13431.412	55.81	74.0	18.19	Peak	46.00	300	Vertical	Pass
5**	13431.412	43.67	54.0	10.33	AV	46.00	300	Vertical	Pass
6	17418.520	59.78	74.0	14.22	Peak	89.00	200	Vertical	Pass
6**	17418.520	47.24	54.0	6.76	AV	89.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.625	42.19	74.0	31.81	Peak	171.00	400	Horizontal	Pass
1**	1327.625	36.01	54.0	17.99	AV	171.00	400	Horizontal	Pass
2	2992.952	52.99	74.0	21.01	Peak	206.00	300	Horizontal	Pass
2**	2992.952	44.40	54.0	9.60	AV	206.00	300	Horizontal	Pass
3	4933.278	52.31	74.0	21.69	Peak	88.00	200	Horizontal	Pass
3**	4933.278	41.39	54.0	12.61	AV	88.00	200	Horizontal	Pass
4	6807.092	52.57	74.0	21.43	Peak	10.00	200	Horizontal	Pass
4**	6807.092	44.87	54.0	9.13	AV	10.00	200	Horizontal	Pass
5	13415.127	57.27	74.0	16.73	Peak	96.00	200	Horizontal	Pass
5**	13415.127	47.03	54.0	6.97	AV	96.00	200	Horizontal	Pass
6	17427.709	58.63	74.0	15.37	Peak	216.00	100	Horizontal	Pass
6**	17427.709	49.14	54.0	4.86	AV	216.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.271	42.75	74.0	31.25	Peak	63.00	300	Vertical	Pass
1**	1336.271	37.58	54.0	16.42	AV	63.00	300	Vertical	Pass
2	2983.990	52.02	74.0	21.98	Peak	1.00	300	Vertical	Pass
2**	2983.990	44.71	54.0	9.29	AV	1.00	300	Vertical	Pass
3	4857.537	46.87	74.0	27.13	Peak	300.00	200	Vertical	Pass
3**	4857.537	41.09	54.0	12.91	AV	300.00	200	Vertical	Pass
4	6610.248	52.54	74.0	21.46	Peak	222.00	100	Vertical	Pass
4**	6610.248	43.60	54.0	10.40	AV	222.00	100	Vertical	Pass
5	13435.410	53.16	74.0	20.84	Peak	286.00	100	Vertical	Pass
5**	13435.410	46.93	54.0	7.07	AV	286.00	100	Vertical	Pass
6	17418.210	56.87	74.0	17.13	Peak	101.00	300	Vertical	Pass
6**	17418.210	49.24	54.0	4.76	AV	101.00	300	Vertical	Pass

Antenna 2

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.486	44.24	74.0	29.76	Peak	205.00	100	Horizontal	Pass
1**	1326.486	38.59	54.0	15.41	AV	205.00	100	Horizontal	Pass
2	2992.735	50.27	74.0	23.73	Peak	114.00	300	Horizontal	Pass
2**	2992.735	40.37	54.0	13.63	AV	114.00	300	Horizontal	Pass
3	4933.371	48.92	74.0	25.08	Peak	359.00	200	Horizontal	Pass
3**	4933.371	43.95	54.0	10.05	AV	359.00	200	Horizontal	Pass
4	6803.490	52.04	74.0	21.96	Peak	164.00	400	Horizontal	Pass
4**	6803.490	45.55	54.0	8.45	AV	164.00	400	Horizontal	Pass
5	13411.520	57.39	74.0	16.61	Peak	146.00	200	Horizontal	Pass
5**	13411.520	43.55	54.0	10.45	AV	146.00	200	Horizontal	Pass
6	17429.999	56.39	74.0	17.61	Peak	103.00	300	Horizontal	Pass
6**	17429.999	46.70	54.0	7.30	AV	103.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.817	42.47	74.0	31.53	Peak	43.00	300	Vertical	Pass
1**	1330.817	37.27	54.0	16.73	AV	43.00	300	Vertical	Pass
2	2978.335	51.32	74.0	22.68	Peak	253.00	400	Vertical	Pass
2**	2978.335	42.33	54.0	11.67	AV	253.00	400	Vertical	Pass
3	4857.172	51.30	74.0	22.70	Peak	248.00	200	Vertical	Pass
3**	4857.172	39.57	54.0	14.43	AV	248.00	200	Vertical	Pass
4	6603.580	56.93	74.0	17.07	Peak	340.00	300	Vertical	Pass
4**	6603.580	48.02	54.0	5.98	AV	340.00	300	Vertical	Pass
5	13432.360	52.99	74.0	21.01	Peak	81.00	200	Vertical	Pass
5**	13432.360	45.37	54.0	8.63	AV	81.00	200	Vertical	Pass
6	17420.580	59.82	74.0	14.18	Peak	284.00	400	Vertical	Pass
6**	17420.580	48.87	54.0	5.13	AV	284.00	400	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note [1]: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note [2]: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note [3]: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [4]: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note [5]: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data and Plots

Antenna 1

802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.043	56.55	74.0	17.45	Peak	357.00	200	Horizontal	Pass
1**	2386.043	46.06	54.0	7.94	AV	357.00	200	Horizontal	Pass
2	2390.000	55.67	74.0	18.33	Peak	167.00	100	Horizontal	Pass
2**	2390.000	44.96	54.0	9.04	AV	167.00	100	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.73	74.0	16.27	Peak	68.00	200	Horizontal	Pass
1**	2483.500	45.7	54.0	8.30	AV	68.00	200	Horizontal	Pass
2	2486.905	58.97	74.0	15.03	Peak	260.00	100	Horizontal	Pass
2**	2486.905	45.07	54.0	8.93	AV	260.00	100	Horizontal	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.027	59.73	74.0	14.27	Peak	101.00	300	Horizontal	Pass
1**	2385.027	49.37	54.0	4.63	AV	101.00	300	Horizontal	Pass
2	2390.000	56.59	74.0	17.41	Peak	57.00	200	Horizontal	Pass
2**	2390.000	47.03	54.0	6.97	AV	57.00	200	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.38	74.0	16.62	Peak	98.00	200	Horizontal	Pass
1**	2483.500	45.67	54.0	8.33	AV	98.00	200	Horizontal	Pass
2	2488.488	58.7	74.0	15.30	Peak	337.00	300	Horizontal	Pass
2**	2488.488	47.01	54.0	6.99	AV	337.00	300	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.091	59.21	74.0	14.79	Peak	186.00	200	Horizontal	Pass
1**	2384.091	49.59	54.0	4.41	AV	186.00	200	Horizontal	Pass
2	2390.000	55.91	74.0	18.09	Peak	11.00	300	Horizontal	Pass
2**	2390.000	47.38	54.0	6.62	AV	11.00	300	Horizontal	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.84	74.0	20.16	Peak	131.00	300	Horizontal	Pass
1**	2483.500	46.71	54.0	7.29	AV	131.00	300	Horizontal	Pass
2	2488.861	59.94	74.0	14.06	Peak	40.00	100	Horizontal	Pass
2**	2488.861	46.54	54.0	7.46	AV	40.00	100	Horizontal	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.656	58.27	74.0	15.73	Peak	261.00	300	Horizontal	Pass
1**	2385.656	47.52	54.0	6.48	AV	261.00	300	Horizontal	Pass
2	2390.000	54	74.0	20.00	Peak	172.00	100	Horizontal	Pass
2**	2390.000	47.38	54.0	6.62	AV	172.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	56.52	74.0	17.48	Peak	125.00	200	Horizontal	Pass
1**	2483.500	45.72	54.0	8.28	AV	125.00	200	Horizontal	Pass
2	2488.056	58.71	74.0	15.29	Peak	186.00	300	Horizontal	Pass
2**	2488.056	45.35	54.0	8.65	AV	186.00	300	Horizontal	Pass

Antenna 2

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.71	74.0	16.29	Peak	256.00	100	Horizontal	Pass
1**	2483.500	46.41	54.0	7.59	AV	256.00	100	Horizontal	Pass
2	2487.661	57.94	74.0	16.06	Peak	305.00	200	Horizontal	Pass
2**	2487.661	46.72	54.0	7.28	AV	305.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.08	8
Middle	-8.30	8
High	-8.28	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.96	8
Middle	-10.37	8
High	-10.01	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.55	8
Middle	-10.22	8
High	-9.78	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.41	8
Middle	-12.52	8
High	-12.55	8

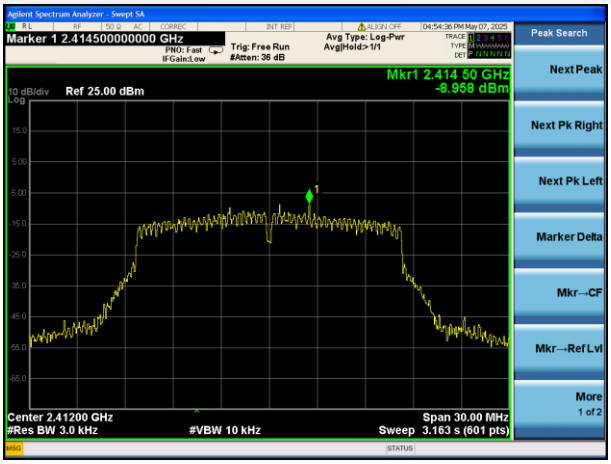
Test Plots

802.11b LOW CHANNEL

802.11b MIDDLE CHANNEL

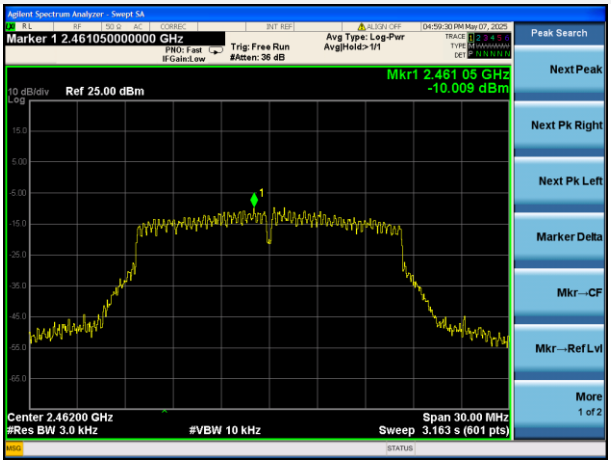
802.11b HIGH CHANNEL

802.11g LOW CHANNEL

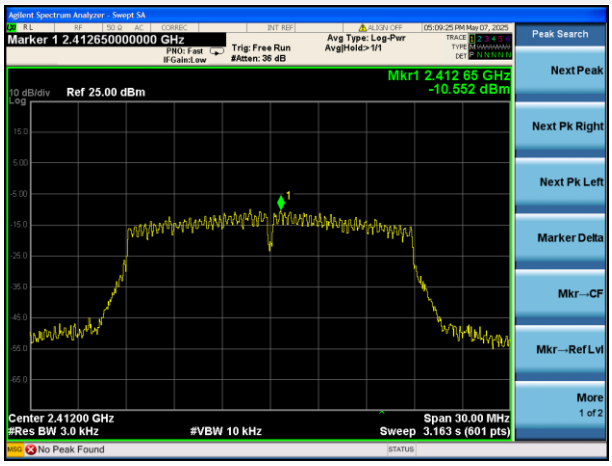


802.11g MIDDLE CHANNEL

802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL

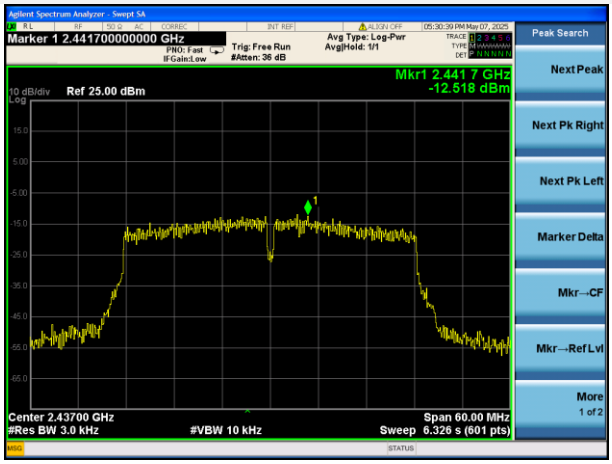


802.11n-20 MHz MIDDLE CHANNEL

802.11n-20 MHz HIGH CHANNEL

802.11n-40 MHz LOW CHANNEL

802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2541373-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2541373-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2541373-AI.PDF”.

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