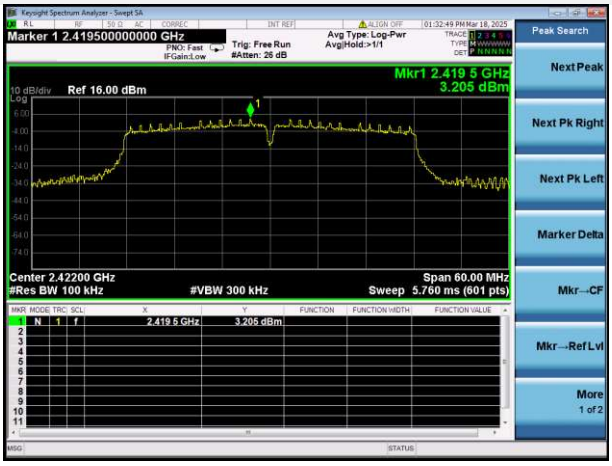
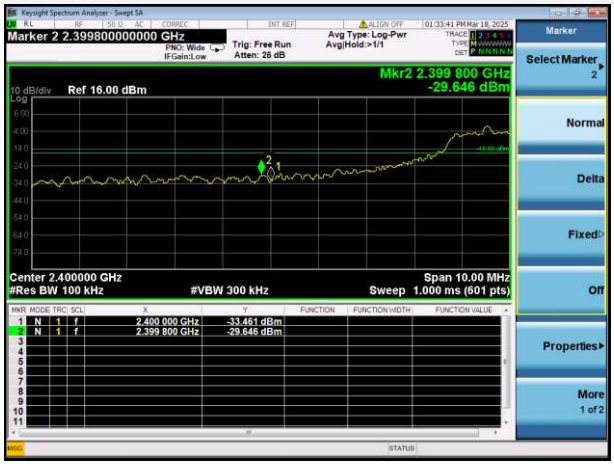
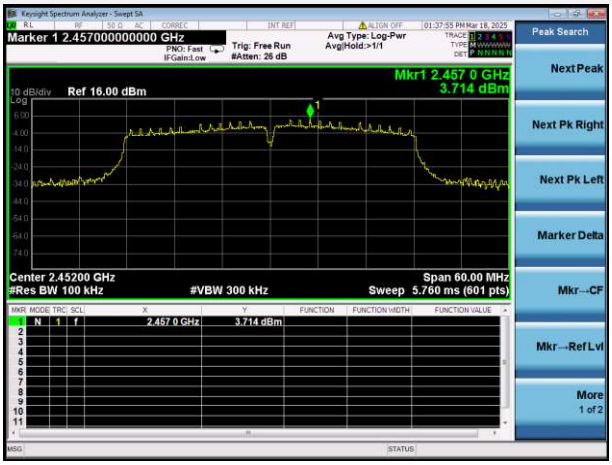
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



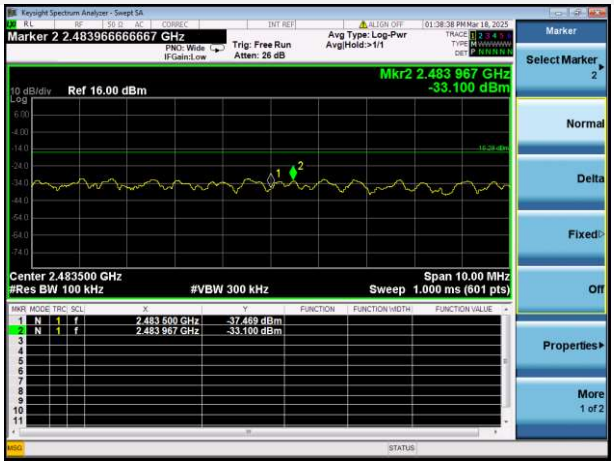
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

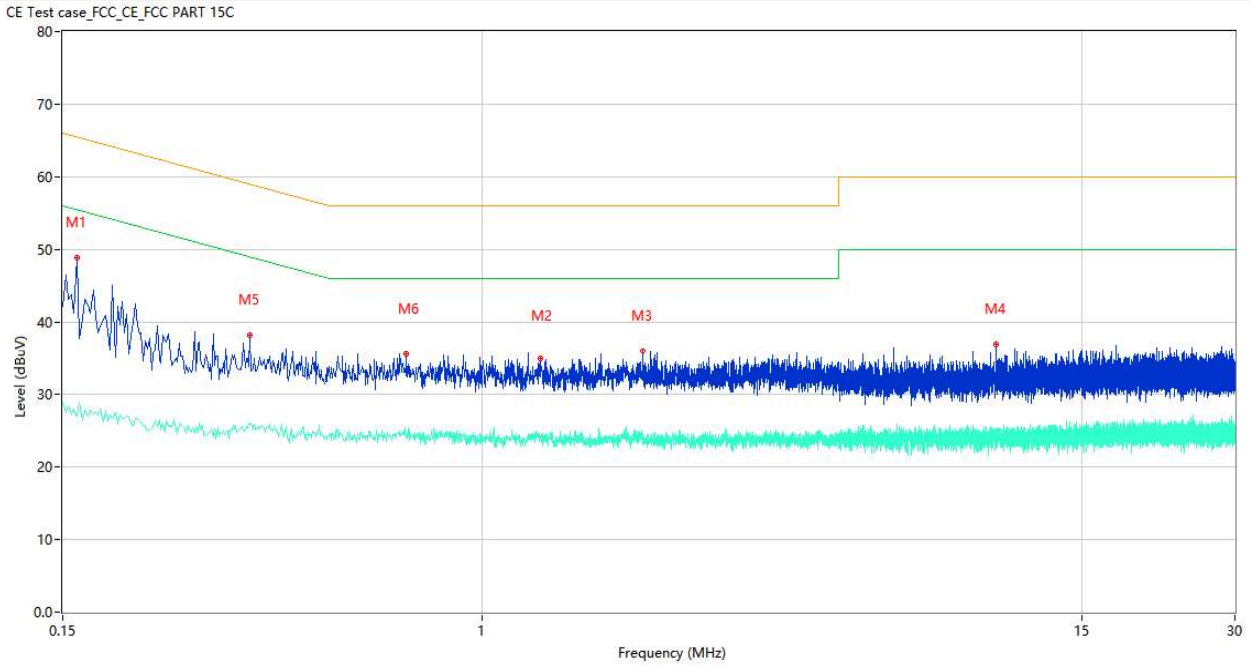
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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)

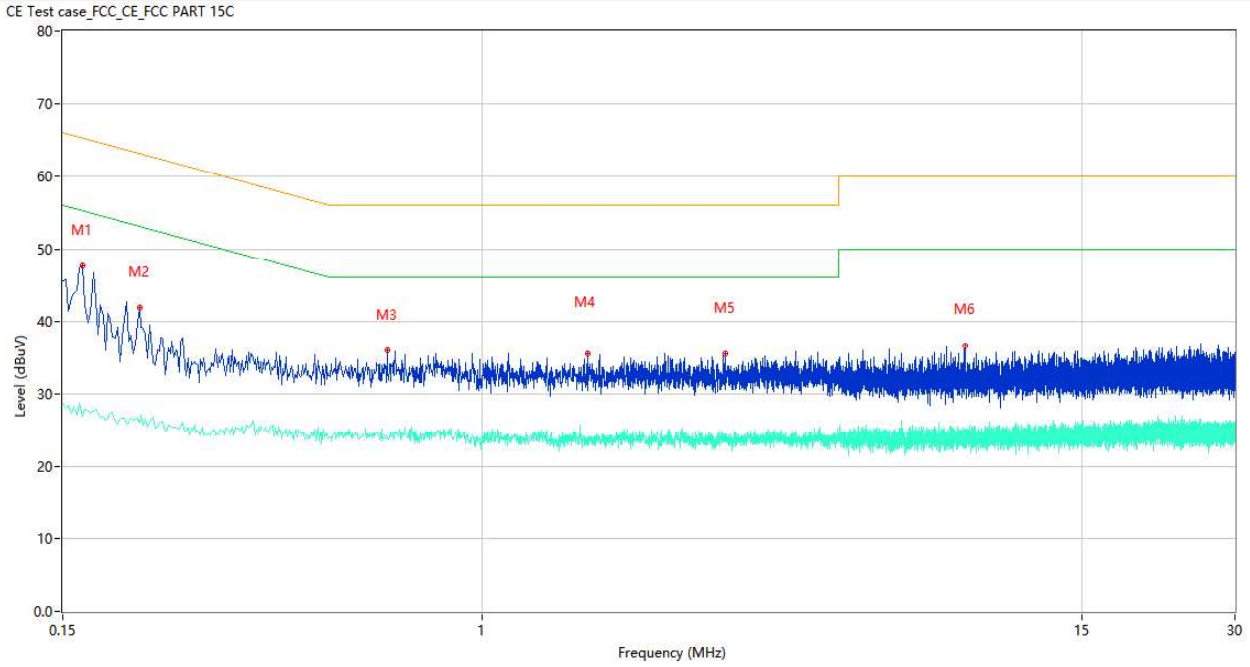
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	48.86	9.78	65.46	16.60	Peak	L	Pass
1**	0.160	26.92	9.78	55.46	28.54	AV	L	Pass
2	1.298	34.95	10.51	56.00	21.05	Peak	L	Pass
2**	1.298	24.29	10.51	46.00	21.71	AV	L	Pass
3	2.064	36.01	10.30	56.00	19.99	Peak	L	Pass
3**	2.064	24.48	10.30	46.00	21.52	AV	L	Pass
4	10.178	36.93	10.50	60.00	23.07	Peak	L	Pass
4**	10.178	25.02	10.50	50.00	24.98	AV	L	Pass
5	0.350	38.23	10.76	58.96	20.73	Peak	L	Pass
5**	0.350	25.82	10.76	48.96	23.14	AV	L	Pass
6	0.710	35.51	10.55	56.00	20.49	Peak	L	Pass
6**	0.710	23.99	10.55	46.00	22.01	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	47.66	9.78	65.26	17.60	Peak	N	Pass
1**	0.164	27.04	9.78	55.26	28.22	AV	N	Pass
2	0.212	41.98	9.77	63.13	21.15	Peak	N	Pass
2**	0.212	26.00	9.77	53.13	27.13	AV	N	Pass
3	0.650	36.02	10.21	56.00	19.98	Peak	N	Pass
3**	0.650	24.00	10.21	46.00	22.00	AV	N	Pass
4	1.606	35.48	9.87	56.00	20.52	Peak	N	Pass
4**	1.606	23.60	9.87	46.00	22.40	AV	N	Pass
5	2.992	35.60	10.28	56.00	20.40	Peak	N	Pass
5**	2.992	24.39	10.28	46.00	21.61	AV	N	Pass
6	8.862	36.72	10.37	60.00	23.28	Peak	N	Pass
6**	8.862	25.08	10.37	50.00	24.92	AV	N	Pass

A.6 Radiated Emission

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

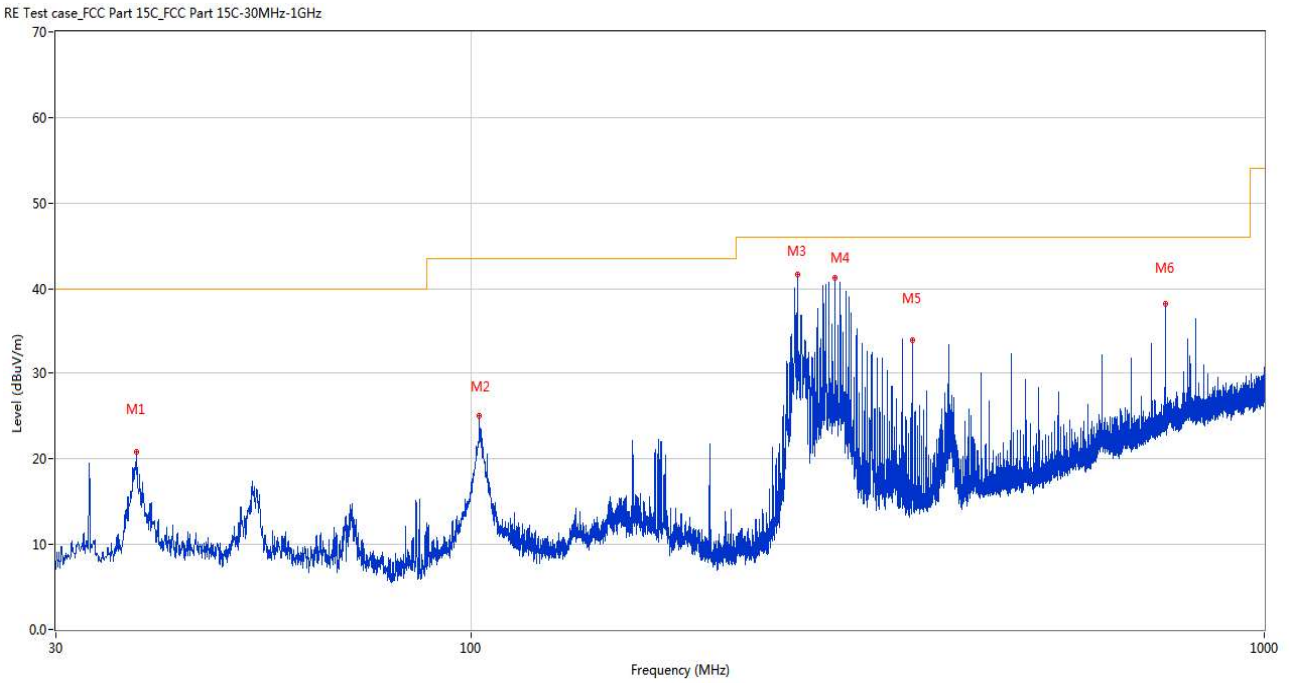
Note [2]: For the test data above 1 GHz，According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

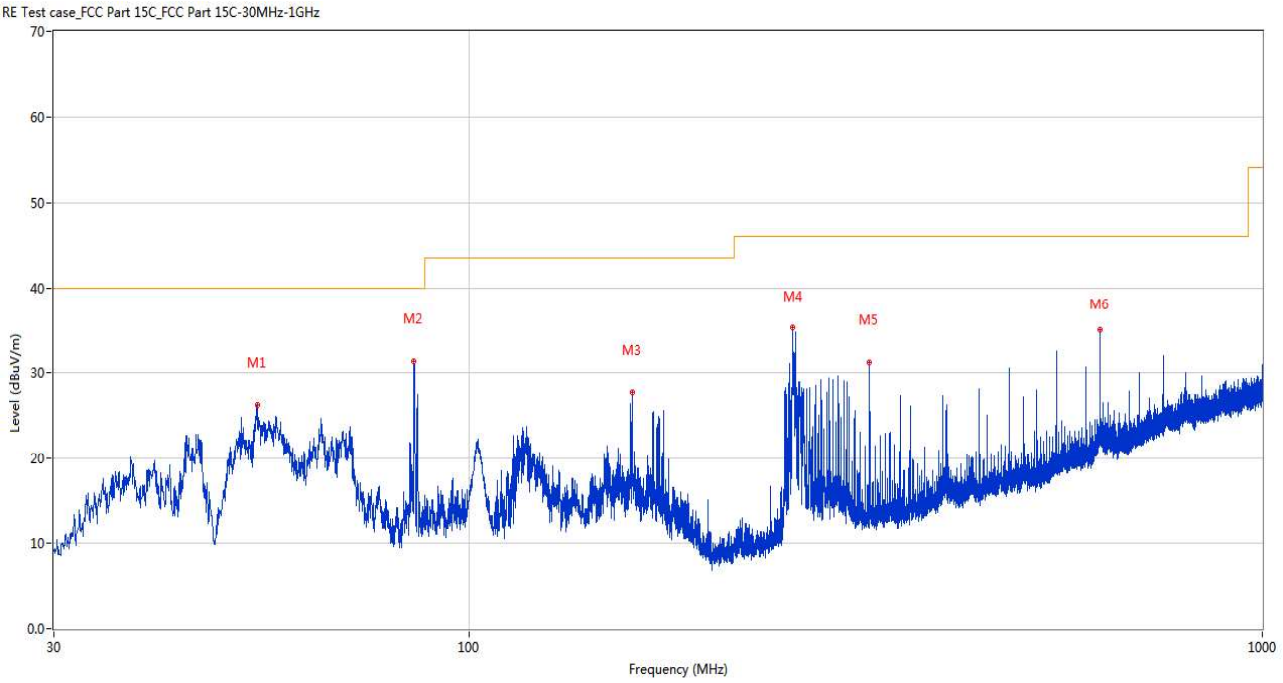
Test Data and Plots

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	37.954	20.80	-26.79	40.0	19.20	Peak	277.00	100	Horizontal	Pass
2	102.604	25.04	-29.71	43.5	18.46	Peak	335.00	200	Horizontal	Pass
3	258.338	41.65	-26.57	46.0	4.35	Peak	315.00	100	Horizontal	Pass
4	287.535	41.31	-25.43	46.0	4.69	Peak	0.00	100	Horizontal	Pass
5	359.994	33.94	-23.38	46.0	12.06	Peak	192.00	100	Horizontal	Pass
6	750.031	38.04	-13.46	46.0	7.96	Peak	199.00	100	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	54.105	26.21	-27.01	40.0	13.79	Peak	275.00	100	Vertical	Pass
2	85.339	31.39	-30.77	40.0	8.61	Peak	325.00	100	Vertical	Pass
3	160.611	27.73	-25.28	43.5	15.77	Peak	46.00	100	Vertical	Pass
4	256.155	35.39	-26.49	46.0	10.61	Peak	0.00	200	Vertical	Pass
5	319.982	31.25	-24.06	46.0	14.75	Peak	44.00	200	Vertical	Pass
6	625.047	35.02	-15.36	46.0	10.98	Peak	108.00	200	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.

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	1330.395	47.11	74.0	26.89	Peak	330.00	300	Horizontal	Pass
1**	1330.395	35.84	54.0	18.16	AV	330.00	300	Horizontal	Pass
2	2999.461	48.72	74.0	25.28	Peak	256.00	200	Horizontal	Pass
2**	2999.461	44.01	54.0	9.99	AV	256.00	200	Horizontal	Pass
3	4935.911	54.06	74.0	19.94	Peak	315.00	200	Horizontal	Pass
3**	4935.911	43.77	54.0	10.23	AV	315.00	200	Horizontal	Pass
4	6810.336	56.99	74.0	17.01	Peak	66.00	200	Horizontal	Pass
4**	6810.336	42.35	54.0	11.65	AV	66.00	200	Horizontal	Pass
5	13412.978	54.27	74.0	19.73	Peak	284.00	300	Horizontal	Pass
5**	13412.978	46.39	54.0	7.61	AV	284.00	300	Horizontal	Pass
6	17425.200	54.45	74.0	19.55	Peak	233.00	300	Horizontal	Pass
6**	17425.200	46.24	54.0	7.76	AV	233.00	300	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	1332.435	47.73	74.0	26.27	Peak	163.00	300	Vertical	Pass
1**	1332.435	38.34	54.0	15.66	AV	163.00	300	Vertical	Pass
2	2979.976	50.72	74.0	23.28	Peak	112.00	200	Vertical	Pass
2**	2979.976	42.22	54.0	11.78	AV	112.00	200	Vertical	Pass
3	4856.098	50.73	74.0	23.27	Peak	343.00	200	Vertical	Pass
3**	4856.098	38.27	54.0	15.73	AV	343.00	200	Vertical	Pass
4	6608.452	54.63	74.0	19.37	Peak	64.00	100	Vertical	Pass
4**	6608.452	46.74	54.0	7.26	AV	64.00	100	Vertical	Pass
5	13435.004	58.08	74.0	15.92	Peak	132.00	400	Vertical	Pass
5**	13435.004	48.94	54.0	5.06	AV	132.00	400	Vertical	Pass
6	17414.668	58.31	74.0	15.69	Peak	98.00	400	Vertical	Pass
6**	17414.668	46.37	54.0	7.63	AV	98.00	400	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	1331.502	44.53	74.0	29.47	Peak	334.00	100	Horizontal	Pass
1**	1331.502	35.43	54.0	18.57	AV	334.00	100	Horizontal	Pass
2	2996.685	48.35	74.0	25.65	Peak	38.00	100	Horizontal	Pass
2**	2996.685	41.50	54.0	12.50	AV	38.00	100	Horizontal	Pass
3	4937.629	51.07	74.0	22.93	Peak	205.00	200	Horizontal	Pass
3**	4937.629	42.82	54.0	11.18	AV	205.00	200	Horizontal	Pass
4	6806.562	55.48	74.0	18.52	Peak	355.00	300	Horizontal	Pass
4**	6806.562	45.68	54.0	8.32	AV	355.00	300	Horizontal	Pass
5	13414.296	55.91	74.0	18.09	Peak	76.00	300	Horizontal	Pass
5**	13414.296	46.36	54.0	7.64	AV	76.00	300	Horizontal	Pass
6	17424.560	58.95	74.0	15.05	Peak	129.00	200	Horizontal	Pass
6**	17424.560	48.51	54.0	5.49	AV	129.00	200	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	1334.639	45.82	74.0	28.18	Peak	146.00	100	Vertical	Pass
1**	1334.639	39.23	54.0	14.77	AV	146.00	100	Vertical	Pass
2	2980.520	52.45	74.0	21.55	Peak	348.00	200	Vertical	Pass
2**	2980.520	39.07	54.0	14.93	AV	348.00	200	Vertical	Pass
3	4857.711	51.83	74.0	22.17	Peak	61.00	200	Vertical	Pass
3**	4857.711	42.48	54.0	11.52	AV	61.00	200	Vertical	Pass
4	6604.786	52.79	74.0	21.21	Peak	4.00	200	Vertical	Pass
4**	6604.786	47.29	54.0	6.71	AV	4.00	200	Vertical	Pass
5	13432.563	57.36	74.0	16.64	Peak	27.00	100	Vertical	Pass
5**	13432.563	48.49	54.0	5.51	AV	27.00	100	Vertical	Pass
6	17414.267	56.96	74.0	17.04	Peak	40.00	100	Vertical	Pass
6**	17414.267	47.36	54.0	6.64	AV	40.00	100	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	1328.442	43.87	74.0	30.13	Peak	168.00	400	Horizontal	Pass
1**	1328.442	34.58	54.0	19.42	AV	168.00	400	Horizontal	Pass
2	2998.286	47.99	74.0	26.01	Peak	318.00	200	Horizontal	Pass
2**	2998.286	42.86	54.0	11.14	AV	318.00	200	Horizontal	Pass
3	4935.401	52.44	74.0	21.56	Peak	345.00	200	Horizontal	Pass
3**	4935.401	38.73	54.0	15.27	AV	345.00	200	Horizontal	Pass
4	6806.496	52.71	74.0	21.29	Peak	59.00	400	Horizontal	Pass
4**	6806.496	44.01	54.0	9.99	AV	59.00	400	Horizontal	Pass
5	13411.392	53.85	74.0	20.15	Peak	173.00	100	Horizontal	Pass
5**	13411.392	48.68	54.0	5.32	AV	173.00	100	Horizontal	Pass
6	17422.525	53.14	74.0	20.86	Peak	255.00	200	Horizontal	Pass
6**	17422.525	50.22	54.0	3.78	AV	255.00	200	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	1330.761	45.37	74.0	28.63	Peak	185.00	100	Vertical	Pass
1**	1330.761	38.46	54.0	15.54	AV	185.00	100	Vertical	Pass
2	2979.027	48.96	74.0	25.04	Peak	150.00	100	Vertical	Pass
2**	2979.027	42.57	54.0	11.43	AV	150.00	100	Vertical	Pass
3	4854.885	46.99	74.0	27.01	Peak	303.00	200	Vertical	Pass
3**	4854.885	42.79	54.0	11.21	AV	303.00	200	Vertical	Pass
4	6605.515	53.47	74.0	20.53	Peak	325.00	100	Vertical	Pass
4**	6605.515	44.07	54.0	9.93	AV	325.00	100	Vertical	Pass
5	13436.934	56.40	74.0	17.60	Peak	227.00	100	Vertical	Pass
5**	13436.934	47.90	54.0	6.10	AV	227.00	100	Vertical	Pass
6	17417.456	58.90	74.0	15.10	Peak	51.00	200	Vertical	Pass
6**	17417.456	46.76	54.0	7.24	AV	51.00	200	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	1332.147	44.38	74.0	29.62	Peak	72.00	200	Horizontal	Pass
1**	1332.147	36.84	54.0	17.16	AV	72.00	200	Horizontal	Pass
2	2993.445	51.97	74.0	22.03	Peak	188.00	200	Horizontal	Pass
2**	2993.445	44.18	54.0	9.82	AV	188.00	200	Horizontal	Pass
3	4930.708	54.15	74.0	19.85	Peak	124.00	200	Horizontal	Pass
3**	4930.708	42.89	54.0	11.11	AV	124.00	200	Horizontal	Pass
4	6810.877	53.55	74.0	20.45	Peak	260.00	100	Horizontal	Pass
4**	6810.877	44.62	54.0	9.38	AV	260.00	100	Horizontal	Pass
5	13411.851	56.50	74.0	17.50	Peak	359.00	400	Horizontal	Pass
5**	13411.851	47.23	54.0	6.77	AV	359.00	400	Horizontal	Pass
6	17423.494	58.28	74.0	15.72	Peak	78.00	400	Horizontal	Pass
6**	17423.494	46.58	54.0	7.42	AV	78.00	400	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	1329.474	45.58	74.0	28.42	Peak	70.00	100	Vertical	Pass
1**	1329.474	39.20	54.0	14.80	AV	70.00	100	Vertical	Pass
2	2981.241	49.51	74.0	24.49	Peak	76.00	100	Vertical	Pass
2**	2981.241	44.75	54.0	9.25	AV	76.00	100	Vertical	Pass
3	4851.350	51.43	74.0	22.57	Peak	326.00	200	Vertical	Pass
3**	4851.350	41.14	54.0	12.86	AV	326.00	200	Vertical	Pass
4	6606.197	55.97	74.0	18.03	Peak	207.00	300	Vertical	Pass
4**	6606.197	44.51	54.0	9.49	AV	207.00	300	Vertical	Pass
5	13433.271	55.12	74.0	18.88	Peak	287.00	400	Vertical	Pass
5**	13433.271	44.28	54.0	9.72	AV	287.00	400	Vertical	Pass
6	17414.560	56.33	74.0	17.67	Peak	329.00	100	Vertical	Pass
6**	17414.560	47.44	54.0	6.56	AV	329.00	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	1327.358	45.28	74.0	28.72	Peak	346.00	300	Horizontal	Pass
1**	1327.358	38.76	54.0	15.24	AV	346.00	300	Horizontal	Pass
2	2993.801	49.38	74.0	24.62	Peak	346.00	300	Horizontal	Pass
2**	2993.801	39.65	54.0	14.35	AV	346.00	300	Horizontal	Pass
3	4937.326	54.39	74.0	19.61	Peak	196.00	200	Horizontal	Pass
3**	4937.326	44.39	54.0	9.61	AV	196.00	200	Horizontal	Pass
4	6809.234	55.73	74.0	18.27	Peak	47.00	200	Horizontal	Pass
4**	6809.234	43.08	54.0	10.92	AV	47.00	200	Horizontal	Pass
5	13409.109	58.33	74.0	15.67	Peak	274.00	100	Horizontal	Pass
5**	13409.109	44.32	54.0	9.68	AV	274.00	100	Horizontal	Pass
6	17427.684	55.98	74.0	18.02	Peak	65.00	300	Horizontal	Pass
6**	17427.684	48.22	54.0	5.78	AV	65.00	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	1330.265	44.86	74.0	29.14	Peak	75.00	300	Vertical	Pass
1**	1330.265	37.74	54.0	16.26	AV	75.00	300	Vertical	Pass
2	2984.176	53.28	74.0	20.72	Peak	220.00	100	Vertical	Pass
2**	2984.176	39.01	54.0	14.99	AV	220.00	100	Vertical	Pass
3	4852.378	47.08	74.0	26.92	Peak	23.00	200	Vertical	Pass
3**	4852.378	42.96	54.0	11.04	AV	23.00	200	Vertical	Pass
4	6609.067	56.90	74.0	17.10	Peak	242.00	200	Vertical	Pass
4**	6609.067	44.68	54.0	9.32	AV	242.00	200	Vertical	Pass
5	13434.379	55.49	74.0	18.51	Peak	250.00	200	Vertical	Pass
5**	13434.379	46.32	54.0	7.68	AV	250.00	200	Vertical	Pass
6	17417.523	55.26	74.0	18.74	Peak	253.00	200	Vertical	Pass
6**	17417.523	45.03	54.0	8.97	AV	253.00	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	1328.987	45.75	74.0	28.25	Peak	319.00	300	Horizontal	Pass
1**	1328.987	34.82	54.0	19.18	AV	319.00	300	Horizontal	Pass
2	2994.429	52.92	74.0	21.08	Peak	298.00	400	Horizontal	Pass
2**	2994.429	39.97	54.0	14.03	AV	298.00	400	Horizontal	Pass
3	4930.909	51.13	74.0	22.87	Peak	7.00	200	Horizontal	Pass
3**	4930.909	43.13	54.0	10.87	AV	7.00	200	Horizontal	Pass
4	6809.876	53.81	74.0	20.19	Peak	38.00	200	Horizontal	Pass
4**	6809.876	41.76	54.0	12.24	AV	38.00	200	Horizontal	Pass
5	13408.359	57.12	74.0	16.88	Peak	122.00	200	Horizontal	Pass
5**	13408.359	48.65	54.0	5.35	AV	122.00	200	Horizontal	Pass
6	17424.468	56.42	74.0	17.58	Peak	197.00	300	Horizontal	Pass
6**	17424.468	50.18	54.0	3.82	AV	197.00	300	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	1333.459	46.02	74.0	27.98	Peak	62.00	200	Vertical	Pass
1**	1333.459	36.17	54.0	17.83	AV	62.00	200	Vertical	Pass
2	2984.727	51.72	74.0	22.28	Peak	322.00	100	Vertical	Pass
2**	2984.727	40.08	54.0	13.92	AV	322.00	100	Vertical	Pass
3	4852.083	48.81	74.0	25.19	Peak	140.00	200	Vertical	Pass
3**	4852.083	41.87	54.0	12.13	AV	140.00	200	Vertical	Pass
4	6603.630	56.54	74.0	17.46	Peak	346.00	400	Vertical	Pass
4**	6603.630	45.98	54.0	8.02	AV	346.00	400	Vertical	Pass
5	13436.951	54.88	74.0	19.12	Peak	154.00	100	Vertical	Pass
5**	13436.951	45.27	54.0	8.73	AV	154.00	100	Vertical	Pass
6	17419.862	56.57	74.0	17.43	Peak	283.00	400	Vertical	Pass
6**	17419.862	47.78	54.0	6.22	AV	283.00	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	1328.538	43.28	74.0	30.72	Peak	177.00	100	Horizontal	Pass
1**	1328.538	39.16	54.0	14.84	AV	177.00	100	Horizontal	Pass
2	3000.313	47.30	74.0	26.70	Peak	220.00	400	Horizontal	Pass
2**	3000.313	43.45	54.0	10.55	AV	220.00	400	Horizontal	Pass
3	4932.890	49.53	74.0	24.47	Peak	84.00	200	Horizontal	Pass
3**	4932.890	39.24	54.0	14.76	AV	84.00	200	Horizontal	Pass
4	6808.825	55.28	74.0	18.72	Peak	248.00	200	Horizontal	Pass
4**	6808.825	45.86	54.0	8.14	AV	248.00	200	Horizontal	Pass
5	13412.895	54.96	74.0	19.04	Peak	238.00	300	Horizontal	Pass
5**	13412.895	48.27	54.0	5.73	AV	238.00	300	Horizontal	Pass
6	17428.265	53.52	74.0	20.48	Peak	228.00	200	Horizontal	Pass
6**	17428.265	48.57	54.0	5.43	AV	228.00	200	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	1331.442	42.18	74.0	31.82	Peak	146.00	200	Vertical	Pass
1**	1331.442	38.78	54.0	15.22	AV	146.00	200	Vertical	Pass
2	2982.248	48.54	74.0	25.46	Peak	117.00	100	Vertical	Pass
2**	2982.248	39.01	54.0	14.99	AV	117.00	100	Vertical	Pass
3	4858.006	51.05	74.0	22.95	Peak	168.00	200	Vertical	Pass
3**	4858.006	42.56	54.0	11.44	AV	168.00	200	Vertical	Pass
4	6608.183	53.15	74.0	20.85	Peak	263.00	400	Vertical	Pass
4**	6608.183	46.98	54.0	7.02	AV	263.00	400	Vertical	Pass
5	13436.564	54.30	74.0	19.70	Peak	330.00	200	Vertical	Pass
5**	13436.564	45.84	54.0	8.16	AV	330.00	200	Vertical	Pass
6	17414.772	60.11	74.0	13.89	Peak	203.00	200	Vertical	Pass
6**	17414.772	45.80	54.0	8.20	AV	203.00	200	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	1331.767	44.47	74.0	29.53	Peak	223.00	400	Horizontal	Pass
1**	1331.767	33.82	54.0	20.18	AV	223.00	400	Horizontal	Pass
2	2992.660	52.47	74.0	21.53	Peak	236.00	300	Horizontal	Pass
2**	2992.660	40.18	54.0	13.82	AV	236.00	300	Horizontal	Pass
3	4937.210	49.55	74.0	24.45	Peak	200.00	200	Horizontal	Pass
3**	4937.210	42.25	54.0	11.75	AV	200.00	200	Horizontal	Pass
4	6805.400	51.72	74.0	22.28	Peak	104.00	100	Horizontal	Pass
4**	6805.400	45.92	54.0	8.08	AV	104.00	100	Horizontal	Pass
5	13413.360	54.37	74.0	19.63	Peak	262.00	100	Horizontal	Pass
5**	13413.360	46.66	54.0	7.34	AV	262.00	100	Horizontal	Pass
6	17424.431	54.49	74.0	19.51	Peak	286.00	300	Horizontal	Pass
6**	17424.431	46.20	54.0	7.80	AV	286.00	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	1335.578	45.89	74.0	28.11	Peak	54.00	200	Vertical	Pass
1**	1335.578	37.61	54.0	16.39	AV	54.00	200	Vertical	Pass
2	2983.719	49.66	74.0	24.34	Peak	359.00	100	Vertical	Pass
2**	2983.719	41.34	54.0	12.66	AV	359.00	100	Vertical	Pass
3	4850.934	50.95	74.0	23.05	Peak	260.00	200	Vertical	Pass
3**	4850.934	38.28	54.0	15.72	AV	260.00	200	Vertical	Pass
4	6607.772	56.76	74.0	17.24	Peak	9.00	300	Vertical	Pass
4**	6607.772	43.19	54.0	10.81	AV	9.00	300	Vertical	Pass
5	13438.062	55.32	74.0	18.68	Peak	26.00	200	Vertical	Pass
5**	13438.062	49.11	54.0	4.89	AV	26.00	200	Vertical	Pass
6	17420.289	56.69	74.0	17.31	Peak	166.00	100	Vertical	Pass
6**	17420.289	45.37	54.0	8.63	AV	166.00	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	1330.734	44.76	74.0	29.24	Peak	163.00	300	Horizontal	Pass
1**	1330.734	35.62	54.0	18.38	AV	163.00	300	Horizontal	Pass
2	3000.301	52.63	74.0	21.37	Peak	143.00	400	Horizontal	Pass
2**	3000.301	38.95	54.0	15.05	AV	143.00	400	Horizontal	Pass
3	4936.229	49.80	74.0	24.20	Peak	282.00	200	Horizontal	Pass
3**	4936.229	40.41	54.0	13.59	AV	282.00	200	Horizontal	Pass
4	6806.547	51.68	74.0	22.32	Peak	149.00	200	Horizontal	Pass
4**	6806.547	43.01	54.0	10.99	AV	149.00	200	Horizontal	Pass
5	13413.047	58.55	74.0	15.45	Peak	229.00	400	Horizontal	Pass
5**	13413.047	47.57	54.0	6.43	AV	229.00	400	Horizontal	Pass
6	17429.218	55.14	74.0	18.86	Peak	63.00	100	Horizontal	Pass
6**	17429.218	44.80	54.0	9.20	AV	63.00	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	1335.908	44.65	74.0	29.35	Peak	144.00	400	Vertical	Pass
1**	1335.908	38.89	54.0	15.11	AV	144.00	400	Vertical	Pass
2	2981.882	52.18	74.0	21.82	Peak	17.00	300	Vertical	Pass
2**	2981.882	44.69	54.0	9.31	AV	17.00	300	Vertical	Pass
3	4855.927	49.54	74.0	24.46	Peak	240.00	200	Vertical	Pass
3**	4855.927	39.82	54.0	14.18	AV	240.00	200	Vertical	Pass
4	6609.995	52.26	74.0	21.74	Peak	119.00	400	Vertical	Pass
4**	6609.995	45.19	54.0	8.81	AV	119.00	400	Vertical	Pass
5	13438.197	55.79	74.0	18.21	Peak	278.00	400	Vertical	Pass
5**	13438.197	47.39	54.0	6.61	AV	278.00	400	Vertical	Pass
6	17414.286	54.90	74.0	19.10	Peak	248.00	400	Vertical	Pass
6**	17414.286	50.19	54.0	3.81	AV	248.00	400	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	1330.169	47.08	74.0	26.92	Peak	319.00	400	Horizontal	Pass
1**	1330.169	36.16	54.0	17.84	AV	319.00	400	Horizontal	Pass
2	2993.979	52.58	74.0	21.42	Peak	278.00	100	Horizontal	Pass
2**	2993.979	40.14	54.0	13.86	AV	278.00	100	Horizontal	Pass
3	4932.653	51.50	74.0	22.50	Peak	233.00	200	Horizontal	Pass
3**	4932.653	42.02	54.0	11.98	AV	233.00	200	Horizontal	Pass
4	6804.258	53.40	74.0	20.60	Peak	287.00	400	Horizontal	Pass
4**	6804.258	42.97	54.0	11.03	AV	287.00	400	Horizontal	Pass
5	13407.246	54.13	74.0	19.87	Peak	283.00	100	Horizontal	Pass
5**	13407.246	44.36	54.0	9.64	AV	283.00	100	Horizontal	Pass
6	17428.837	58.85	74.0	15.15	Peak	103.00	300	Horizontal	Pass
6**	17428.837	45.95	54.0	8.05	AV	103.00	300	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	1336.668	44.67	74.0	29.33	Peak	334.00	200	Vertical	Pass
1**	1336.668	39.76	54.0	14.24	AV	334.00	200	Vertical	Pass
2	2978.854	51.36	74.0	22.64	Peak	177.00	200	Vertical	Pass
2**	2978.854	41.56	54.0	12.44	AV	177.00	200	Vertical	Pass
3	4852.800	49.42	74.0	24.58	Peak	22.00	200	Vertical	Pass
3**	4852.800	42.18	54.0	11.82	AV	22.00	200	Vertical	Pass
4	6604.950	55.08	74.0	18.92	Peak	102.00	300	Vertical	Pass
4**	6604.950	42.50	54.0	11.50	AV	102.00	300	Vertical	Pass
5	13438.164	54.42	74.0	19.58	Peak	50.00	200	Vertical	Pass
5**	13438.164	48.41	54.0	5.59	AV	50.00	200	Vertical	Pass
6	17418.357	55.16	74.0	18.84	Peak	77.00	200	Vertical	Pass
6**	17418.357	46.88	54.0	7.12	AV	77.00	200	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	1332.545	47.11	74.0	26.89	Peak	126.00	200	Horizontal	Pass
1**	1332.545	35.48	54.0	18.52	AV	126.00	200	Horizontal	Pass
2	2998.073	51.34	74.0	22.66	Peak	123.00	300	Horizontal	Pass
2**	2998.073	40.76	54.0	13.24	AV	123.00	300	Horizontal	Pass
3	4932.032	48.86	74.0	25.14	Peak	24.00	200	Horizontal	Pass
3**	4932.032	40.72	54.0	13.28	AV	24.00	200	Horizontal	Pass
4	6809.039	51.78	74.0	22.22	Peak	49.00	100	Horizontal	Pass
4**	6809.039	42.35	54.0	11.65	AV	49.00	100	Horizontal	Pass
5	13414.124	58.58	74.0	15.42	Peak	84.00	100	Horizontal	Pass
5**	13414.124	49.00	54.0	5.00	AV	84.00	100	Horizontal	Pass
6	17424.094	58.04	74.0	15.96	Peak	335.00	300	Horizontal	Pass
6**	17424.094	47.73	54.0	6.27	AV	335.00	300	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	1330.014	43.20	74.0	30.80	Peak	126.00	100	Vertical	Pass
1**	1330.014	38.49	54.0	15.51	AV	126.00	100	Vertical	Pass
2	2980.349	52.74	74.0	21.26	Peak	31.00	400	Vertical	Pass
2**	2980.349	39.30	54.0	14.70	AV	31.00	400	Vertical	Pass
3	4851.629	48.98	74.0	25.02	Peak	314.00	200	Vertical	Pass
3**	4851.629	39.15	54.0	14.85	AV	314.00	200	Vertical	Pass
4	6603.587	52.11	74.0	21.89	Peak	121.00	200	Vertical	Pass
4**	6603.587	43.42	54.0	10.58	AV	121.00	200	Vertical	Pass
5	13435.339	53.50	74.0	20.50	Peak	56.00	400	Vertical	Pass
5**	13435.339	47.21	54.0	6.79	AV	56.00	400	Vertical	Pass
6	17417.582	56.34	74.0	17.66	Peak	228.00	400	Vertical	Pass
6**	17417.582	48.83	54.0	5.17	AV	228.00	400	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	1333.540	47.10	74.0	26.90	Peak	227.00	100	Horizontal	Pass
1**	1333.540	34.09	54.0	19.91	AV	227.00	100	Horizontal	Pass
2	2998.276	49.90	74.0	24.10	Peak	24.00	300	Horizontal	Pass
2**	2998.276	40.81	54.0	13.19	AV	24.00	300	Horizontal	Pass
3	4937.381	52.91	74.0	21.09	Peak	189.00	200	Horizontal	Pass
3**	4937.381	40.03	54.0	13.97	AV	189.00	200	Horizontal	Pass
4	6808.127	57.01	74.0	16.99	Peak	132.00	300	Horizontal	Pass
4**	6808.127	45.71	54.0	8.29	AV	132.00	300	Horizontal	Pass
5	13409.934	54.93	74.0	19.07	Peak	39.00	200	Horizontal	Pass
5**	13409.934	44.38	54.0	9.62	AV	39.00	200	Horizontal	Pass
6	17426.238	54.31	74.0	19.69	Peak	343.00	200	Horizontal	Pass
6**	17426.238	49.51	54.0	4.49	AV	343.00	200	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	1331.029	43.83	74.0	30.17	Peak	119.00	100	Vertical	Pass
1**	1331.029	36.96	54.0	17.04	AV	119.00	100	Vertical	Pass
2	2983.038	50.82	74.0	23.18	Peak	119.00	100	Vertical	Pass
2**	2983.038	42.64	54.0	11.36	AV	119.00	100	Vertical	Pass
3	4850.962	47.73	74.0	26.27	Peak	118.00	200	Vertical	Pass
3**	4850.962	41.00	54.0	13.00	AV	118.00	200	Vertical	Pass
4	6611.119	54.41	74.0	19.59	Peak	59.00	400	Vertical	Pass
4**	6611.119	47.89	54.0	6.11	AV	59.00	400	Vertical	Pass
5	13437.674	58.30	74.0	15.70	Peak	131.00	100	Vertical	Pass
5**	13437.674	47.71	54.0	6.29	AV	131.00	100	Vertical	Pass
6	17414.554	58.91	74.0	15.09	Peak	99.00	200	Vertical	Pass
6**	17414.554	46.51	54.0	7.49	AV	99.00	200	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.

Test Data

802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2383.826	57.7	74.0	16.30	Peak	289.00	200	Horizontal	Pass
1**	2383.826	46.38	54.0	7.62	AV	289.00	200	Horizontal	Pass
2	2390.000	54.51	74.0	19.49	Peak	154.00	200	Horizontal	Pass
2**	2390.000	45.34	54.0	8.66	AV	154.00	200	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	56.99	74.0	17.01	Peak	311.00	200	Horizontal	Pass
1**	2483.500	46.92	54.0	7.08	AV	311.00	200	Horizontal	Pass
2	2486.195	58.76	74.0	15.24	Peak	120.00	100	Horizontal	Pass
2**	2486.195	44.82	54.0	9.18	AV	120.00	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	2384.377	59.44	74.0	14.56	Peak	229.00	300	Horizontal	Pass
1**	2384.377	47.62	54.0	6.38	AV	229.00	300	Horizontal	Pass
2	2390.000	56.42	74.0	17.58	Peak	304.00	300	Horizontal	Pass
2**	2390.000	44.45	54.0	9.55	AV	304.00	300	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	56	74.0	18.00	Peak	103.00	200	Horizontal	Pass
1**	2483.500	44.97	54.0	9.03	AV	103.00	200	Horizontal	Pass
2	2487.271	57.69	74.0	16.31	Peak	219.00	300	Horizontal	Pass
2**	2487.271	47.44	54.0	6.56	AV	219.00	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	2385.776	58.89	74.0	15.11	Peak	85.00	200	Horizontal	Pass
1**	2385.776	46.76	54.0	7.24	AV	85.00	200	Horizontal	Pass
2	2390.000	53.92	74.0	20.08	Peak	249.00	200	Horizontal	Pass
2**	2390.000	46.06	54.0	7.94	AV	249.00	200	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	54.41	74.0	19.59	Peak	43.00	100	Horizontal	Pass
1**	2483.500	47.4	54.0	6.60	AV	43.00	100	Horizontal	Pass
2	2487.526	58.66	74.0	15.34	Peak	149.00	100	Horizontal	Pass
2**	2487.526	44.26	54.0	9.74	AV	149.00	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	2386.260	59.26	74.0	14.74	Peak	323.00	200	Horizontal	Pass
1**	2386.260	47.53	54.0	6.47	AV	323.00	200	Horizontal	Pass
2	2390.000	56.72	74.0	17.28	Peak	267.00	100	Horizontal	Pass
2**	2390.000	44.21	54.0	9.79	AV	267.00	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	55.35	74.0	18.65	Peak	198.00	200	Horizontal	Pass
1**	2483.500	44.33	54.0	9.67	AV	198.00	200	Horizontal	Pass
2	2487.271	57.24	74.0	16.76	Peak	36.00	300	Horizontal	Pass
2**	2487.271	48	54.0	6.00	AV	36.00	300	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.33	8
Middle	-7.88	8
High	-7.29	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.70	8
Middle	-8.84	8
High	-9.15	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.93	8
Middle	-9.00	8
High	-9.71	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.92	8
Middle	-12.38	8
High	-11.48	8

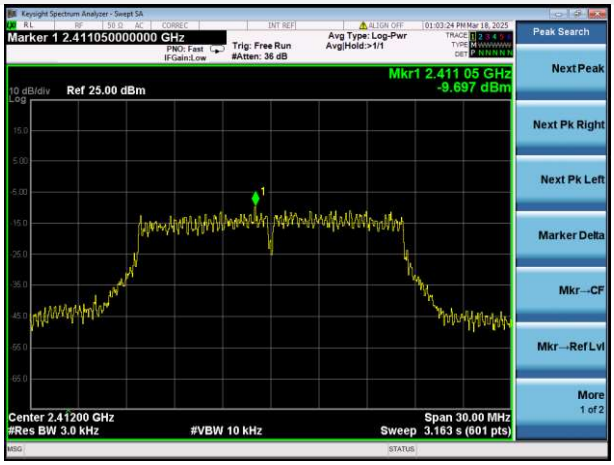
Test Plots

802.11b LOW CHANNEL

802.11b MIDDLE CHANNEL

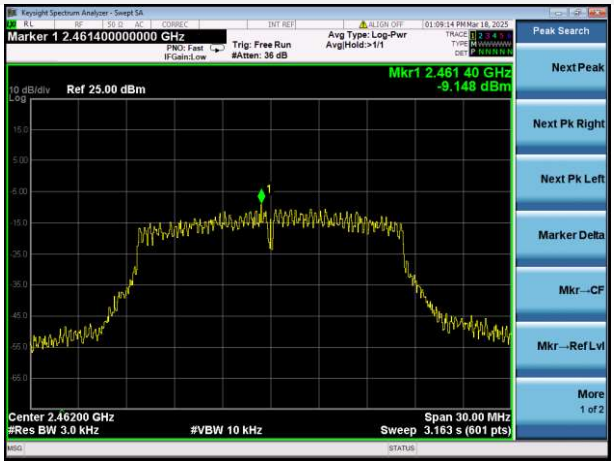
802.11b HIGH CHANNEL

802.11g LOW CHANNEL

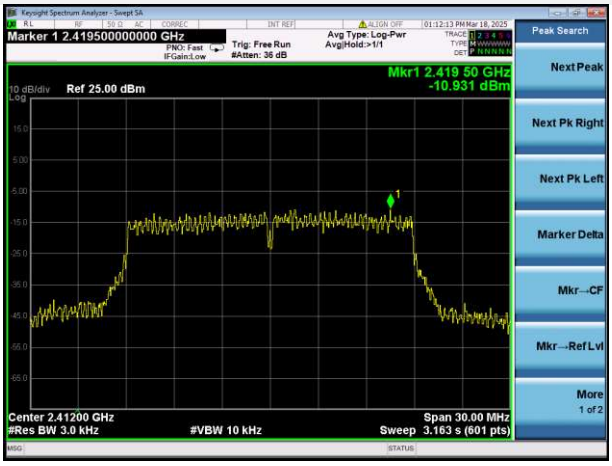


802.11g MIDDLE CHANNEL

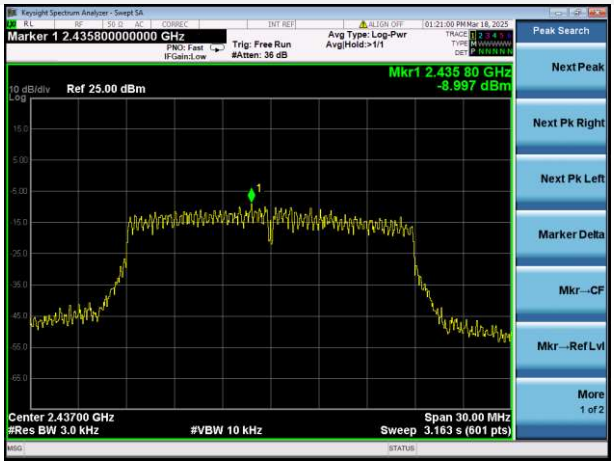
802.11g HIGH CHANNEL



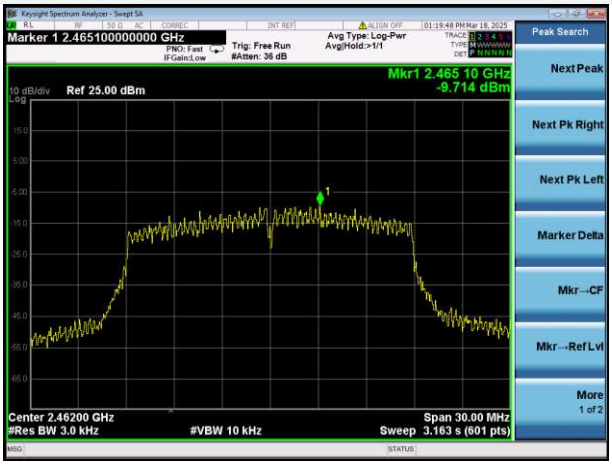
802.11n-20 MHz LOW CHANNEL



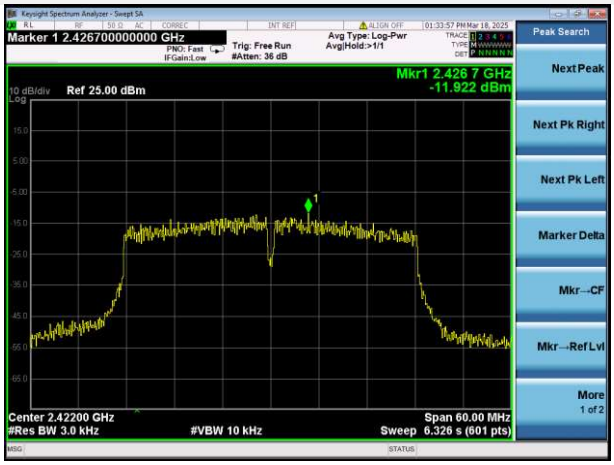
802.11n-20 MHz MIDDLE CHANNEL



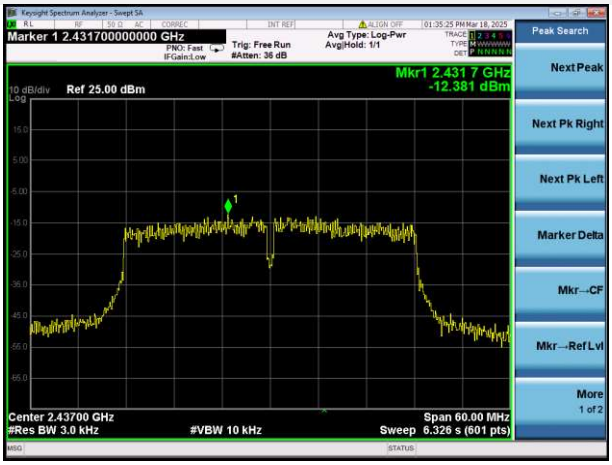
802.11n-20 MHz HIGH CHANNEL



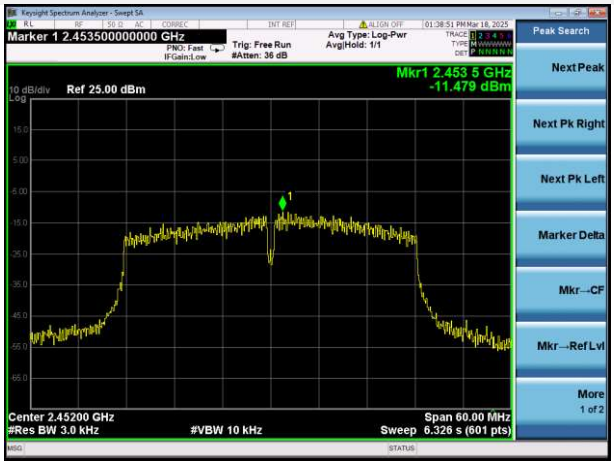
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2530714-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2530714-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2530714-AI.PDF”.

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