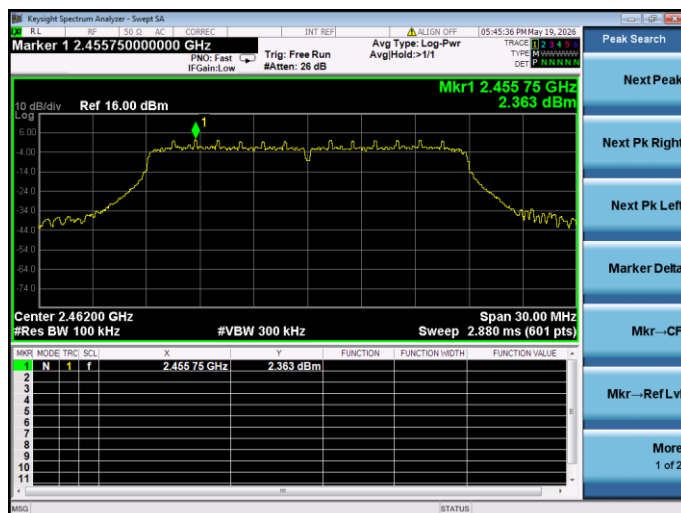
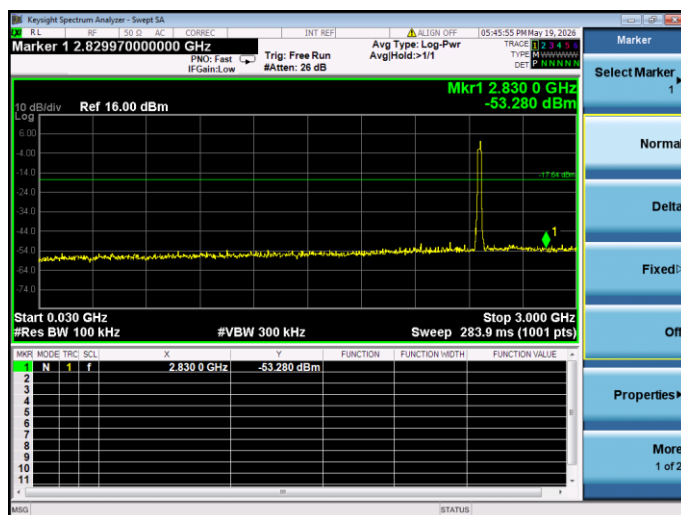
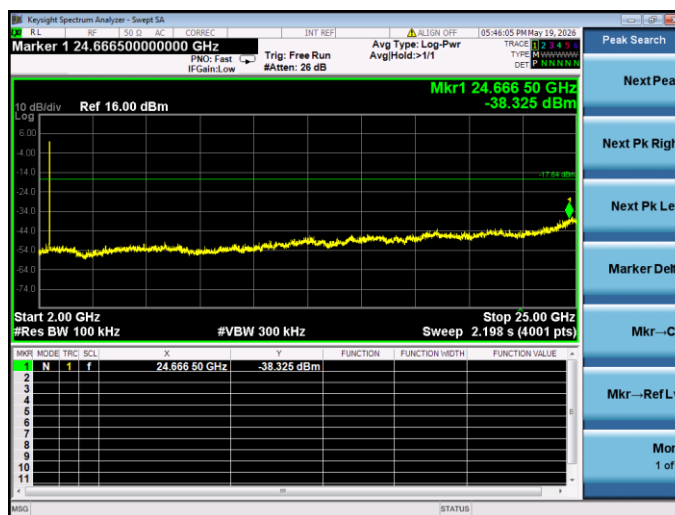


802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL

802.11n-20 MHz HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

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	-37.92	4.23	-15.77	Pass
High Channel	-51.28	4.00	-16.00	Pass

802.11g Mode:

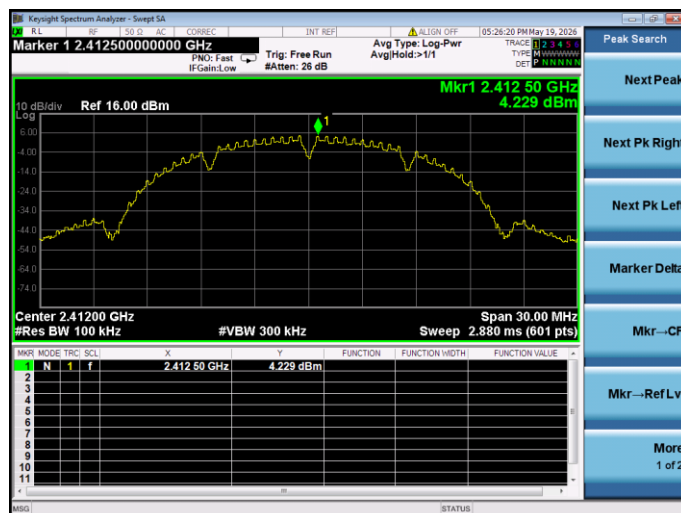
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.85	2.19	-17.81	Pass
High Channel	-48.58	1.94	-18.06	Pass

802.11n-20 MHz Mode:

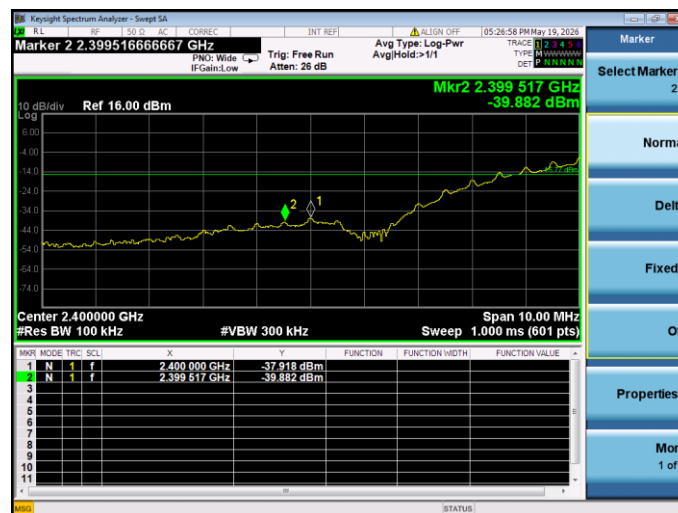
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.27	2.03	-17.97	Pass
High Channel	-46.98	2.36	-17.64	Pass

Test Plots

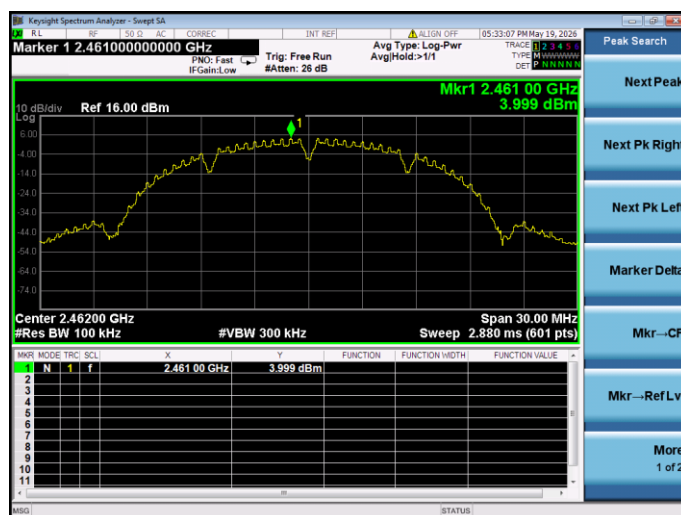
802.11b LOW CHANNEL, CARRIER LEVEL



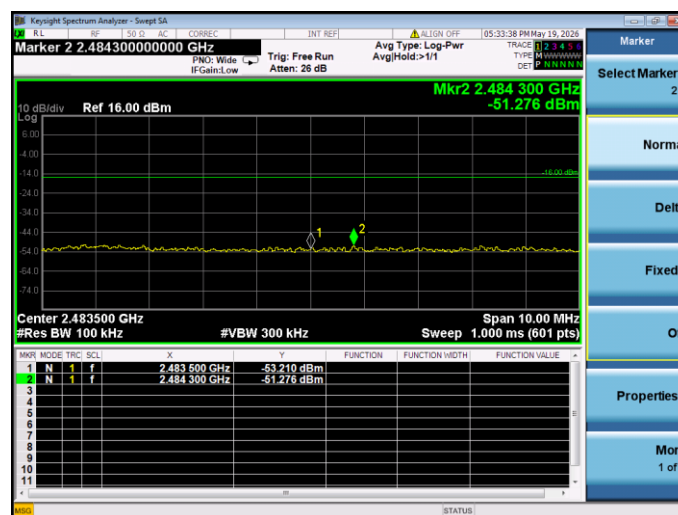
802.11b LOW CHANNEL, BAND EDGE



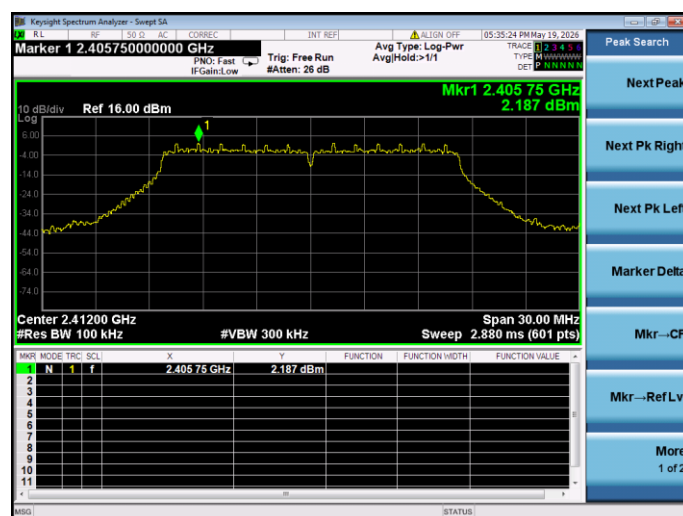
802.11b HIGH CHANNEL, CARRIER LEVEL



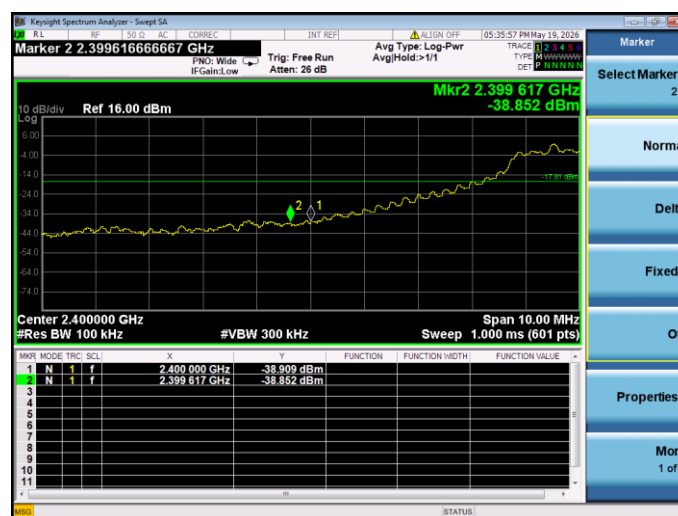
802.11b HIGH CHANNEL, BAND EDGE



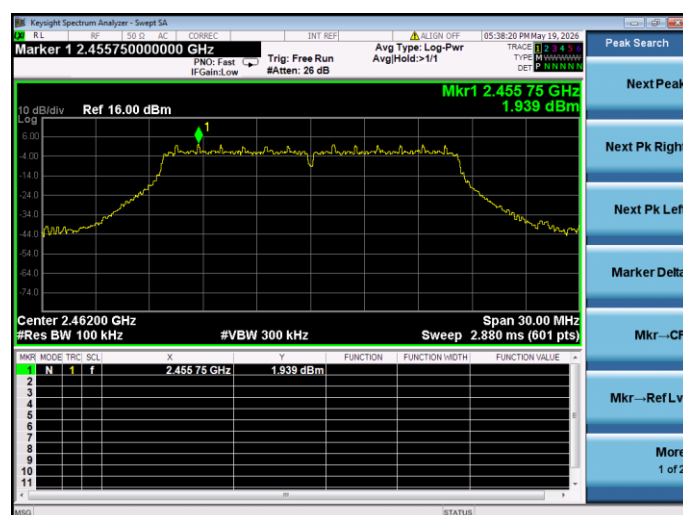
802.11g LOW CHANNEL, CARRIER LEVEL



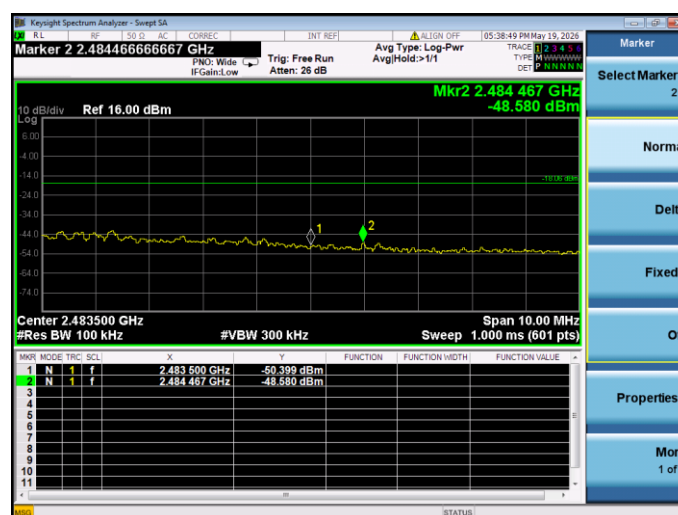
802.11g LOW CHANNEL, BAND EDGE



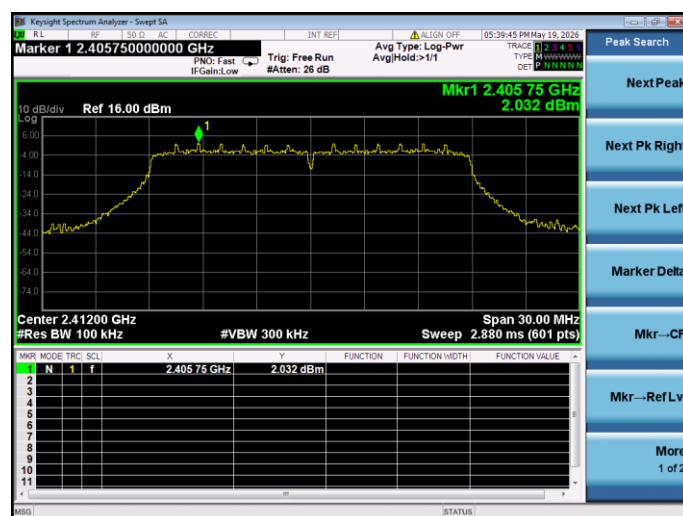
802.11g HIGH CHANNEL, CARRIER LEVEL



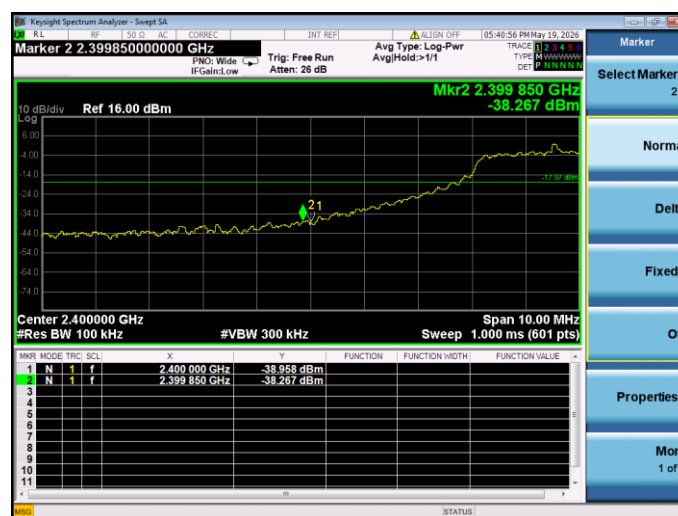
802.11g HIGH CHANNEL, BAND EDGE



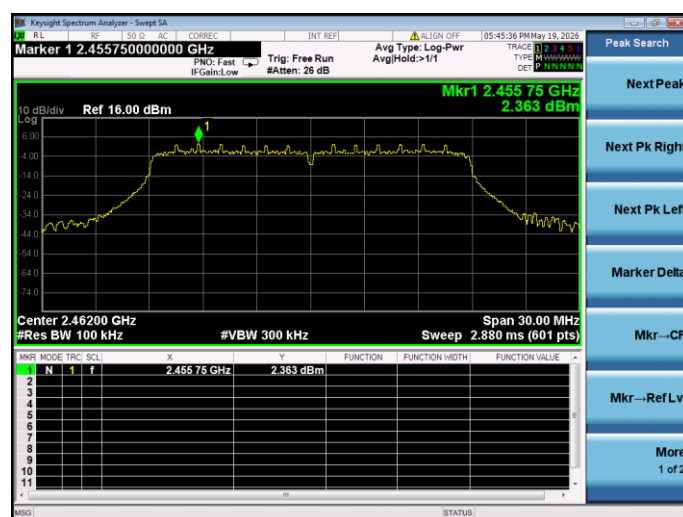
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



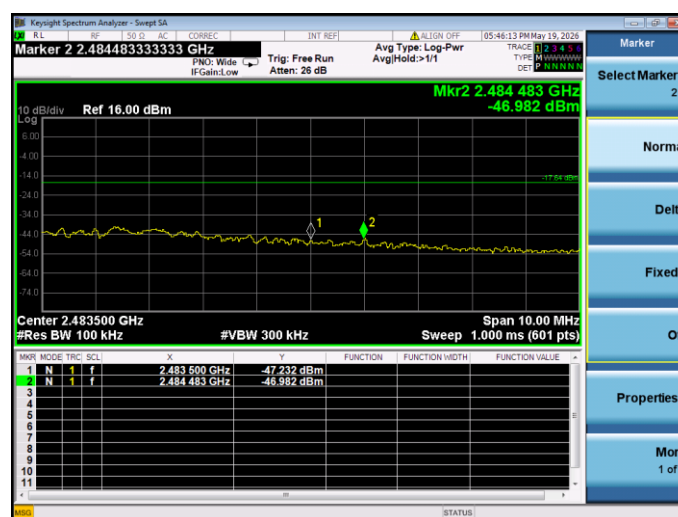
802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

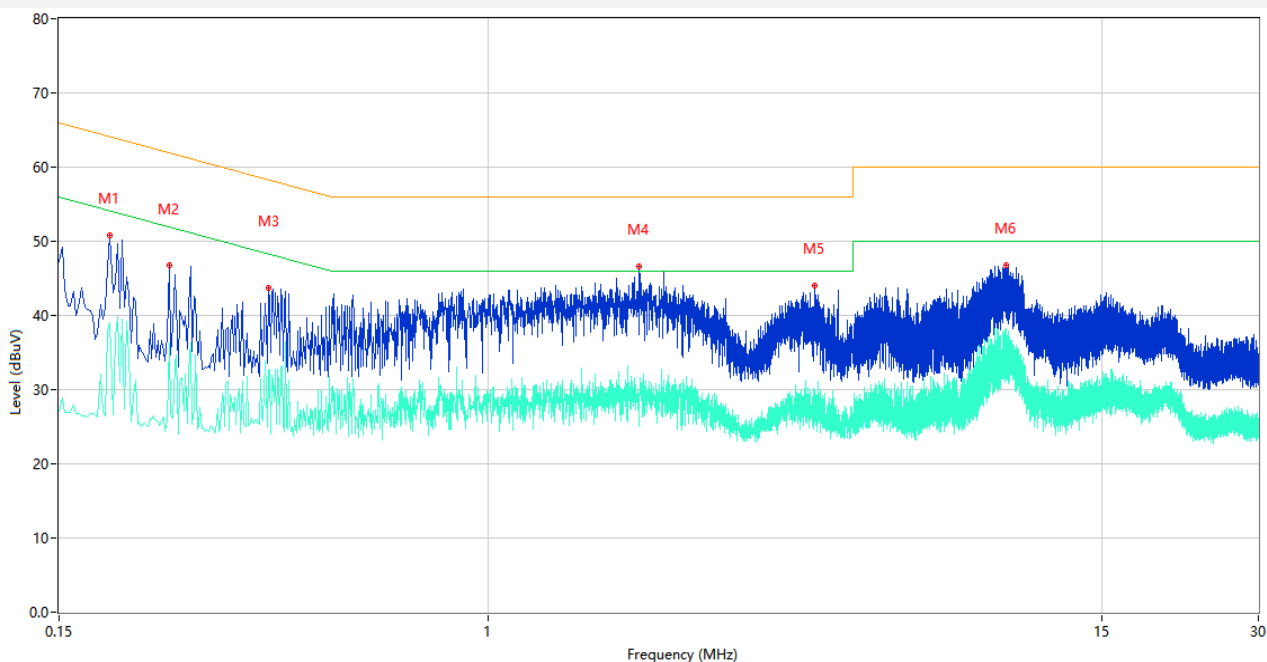
Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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)

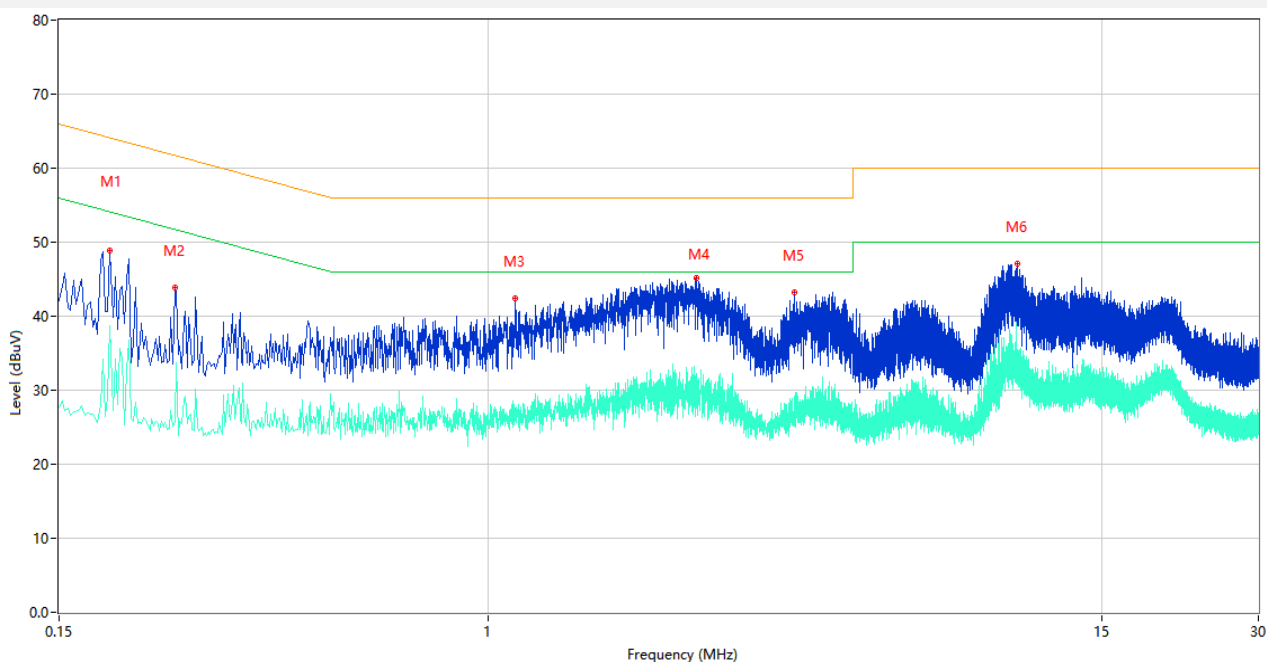
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.188	50.83	9.84	64.12	13.29	Peak	L	Pass
1**	0.188	39.04	9.84	54.12	15.08	AV	L	Pass
2	0.244	46.69	9.83	61.96	15.27	Peak	L	Pass
2**	0.244	36.24	9.83	51.96	15.72	AV	L	Pass
3	0.378	43.76	10.70	58.32	14.56	Peak	L	Pass
3**	0.378	32.50	10.70	48.32	15.82	AV	L	Pass
4	1.948	46.55	10.22	56.00	9.45	Peak	L	Pass
4**	1.948	27.26	10.22	46.00	18.74	AV	L	Pass
5	4.220	44.10	10.04	56.00	11.90	Peak	L	Pass
5**	4.220	30.06	10.04	46.00	15.94	AV	L	Pass
6	9.836	46.74	10.38	60.00	13.26	Peak	L	Pass
6**	9.836	38.17	10.38	50.00	11.83	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.188	48.84	9.84	64.12	15.28	Peak	N	Pass
1**	0.188	38.66	9.84	54.12	15.46	AV	N	Pass
2	0.250	43.85	9.82	61.76	17.91	Peak	N	Pass
2**	0.250	25.67	9.82	51.76	26.09	AV	N	Pass
3	1.126	42.49	10.27	56.00	13.51	Peak	N	Pass
3**	1.126	27.65	10.27	46.00	18.35	AV	N	Pass
4	2.502	45.14	10.21	56.00	10.86	Peak	N	Pass
4**	2.502	32.09	10.21	46.00	13.91	AV	N	Pass
5	3.872	43.15	10.36	56.00	12.85	Peak	N	Pass
5**	3.872	27.86	10.36	46.00	18.14	AV	N	Pass
6	10.358	47.07	10.49	60.00	12.93	Peak	N	Pass
6**	10.358	34.42	10.49	50.00	15.58	AV	N	Pass

A.6 Radiated Emission

Note¹: The symbol of “--” in the table which means not application.

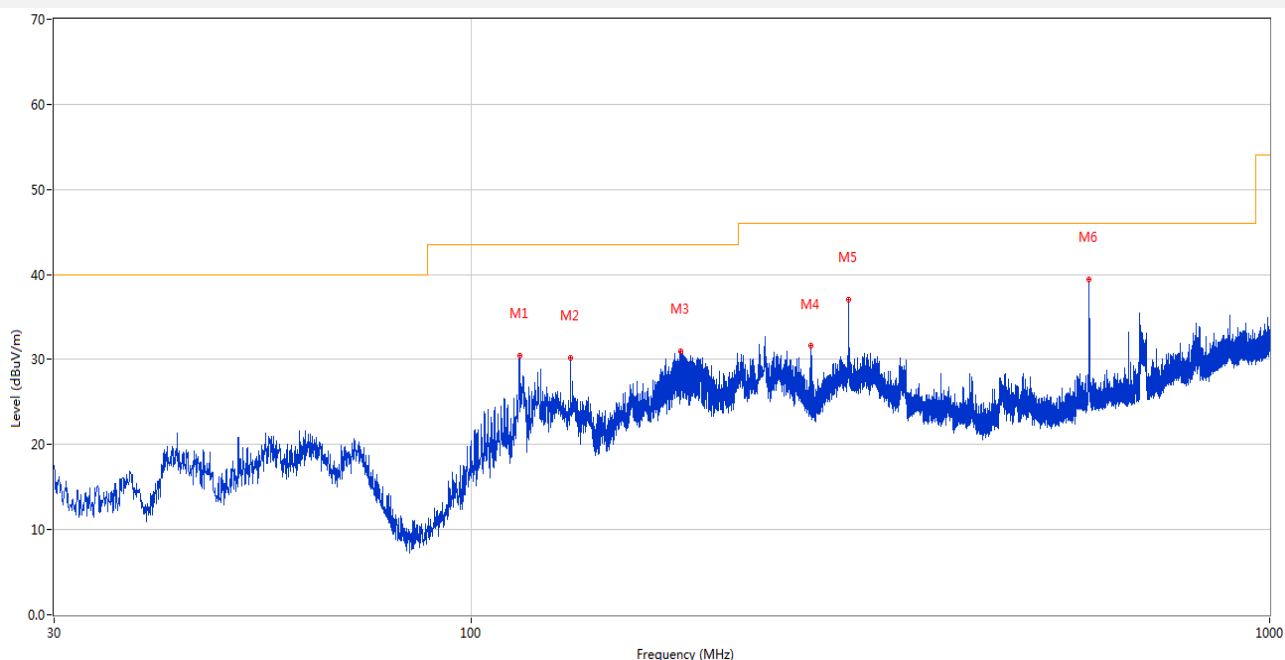
Note²: For the test data above 1 GHz, According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note³: 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.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

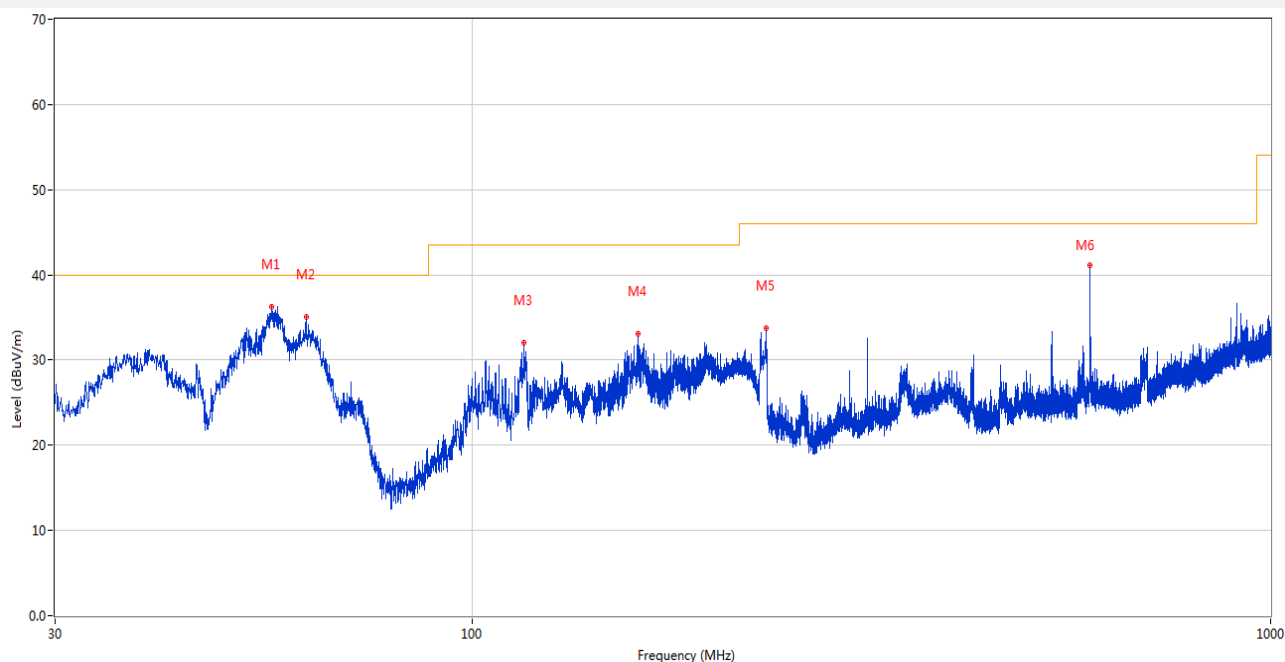
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	114.826	30.41	-26.32	43.5	13.09	Peak	122.20	100	Horizontal	Pass
2	133.111	30.23	-28.41	43.5	13.27	Peak	4.40	100	Horizontal	Pass
3	183.018	30.97	-26.06	43.5	12.53	Peak	246.10	100	Horizontal	Pass
4	266.534	31.58	-22.48	46.0	14.42	Peak	165.30	100	Horizontal	Pass
5	297.041	37.11	-21.41	46.0	8.89	Peak	205.70	100	Horizontal	Pass
6	594.006	39.40	-12.87	46.0	6.60	Peak	262.10	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

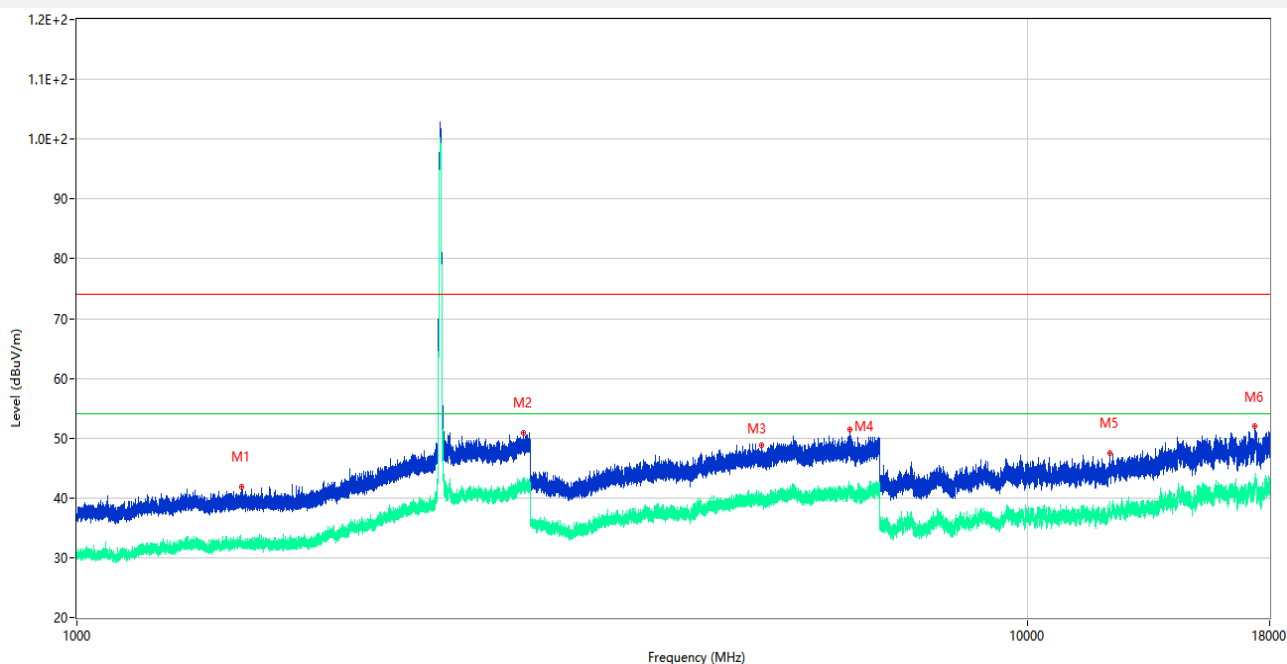


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	56.044	36.26	-24.55	40.0	3.74	Peak	95.00	100	Vertical	Pass
2	61.913	35.13	-25.70	40.0	4.87	Peak	95.00	100	Vertical	Pass
3	116.039	32.08	-26.39	43.5	11.42	Peak	249.90	100	Vertical	Pass
4	161.387	33.08	-27.63	43.5	10.42	Peak	202.30	100	Vertical	Pass
5	233.603	33.81	-23.45	46.0	12.19	Peak	164.20	100	Vertical	Pass
6	594.006	41.17	-12.87	46.0	4.83	Peak	48.60	100	Vertical	Pass

Note¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note²: 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	1494.527	41.93	74.0	32.08	Peak	351.00	300	Horizontal	Pass
1**	1494.527	31.93	54.0	22.07	AV	351.00	300	Horizontal	Pass
2	2948.474	51.05	74.0	22.95	Peak	224.00	100	Horizontal	Pass
2**	2948.474	42.91	54.0	11.09	AV	224.00	100	Horizontal	Pass
3	5255.524	48.85	74.0	25.16	Peak	304.00	200	Horizontal	Pass
3**	5255.524	39.59	54.0	14.41	AV	304.00	200	Horizontal	Pass
4	6504.287	51.57	74.0	22.43	Peak	179.00	200	Horizontal	Pass
4**	6504.287	40.85	54.0	13.15	AV	179.00	200	Horizontal	Pass
5	12219.325	47.55	74.0	26.45	Peak	254.00	200	Horizontal	Pass
5**	12219.325	38.27	54.0	15.73	AV	254.00	200	Horizontal	Pass
6	17357.458	51.99	74.0	22.01	Peak	353.00	300	Horizontal	Pass
6**	17357.458	45.68	54.0	8.32	AV	353.00	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	1529.669	44.49	74.0	29.51	Peak	111.00	200	Vertical	Pass
1**	1529.669	34.81	54.0	19.19	AV	111.00	200	Vertical	Pass
2	2979.480	54.65	74.0	19.35	Peak	14.00	100	Vertical	Pass
2**	2979.480	45.66	54.0	8.34	AV	14.00	100	Vertical	Pass
3	4248.035	48.23	74.0	25.77	Peak	308.00	200	Vertical	Pass
3**	4248.035	38.72	54.0	15.28	AV	308.00	200	Vertical	Pass
4	7259.065	55.18	74.0	18.82	Peak	189.00	300	Vertical	Pass
4**	7259.065	45.05	54.0	8.95	AV	189.00	300	Vertical	Pass
5	10851.160	49.78	74.0	24.22	Peak	28.00	200	Vertical	Pass
5**	10851.160	40.64	54.0	13.36	AV	28.00	200	Vertical	Pass
6	17545.599	54.64	74.0	19.37	Peak	197.00	100	Vertical	Pass
6**	17545.599	44.91	54.0	9.09	AV	197.00	100	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	1489.546	41.33	74.0	32.68	Peak	189.00	400	Horizontal	Pass
1**	1489.546	31.58	54.0	22.42	AV	189.00	400	Horizontal	Pass
2	2946.699	50.42	74.0	23.58	Peak	129.00	200	Horizontal	Pass
2**	2946.699	42.52	54.0	11.48	AV	129.00	200	Horizontal	Pass
3	5249.327	48.46	74.0	25.55	Peak	216.00	200	Horizontal	Pass
3**	5249.327	39.53	54.0	14.47	AV	216.00	200	Horizontal	Pass
4	6504.039	50.71	74.0	23.29	Peak	19.00	100	Horizontal	Pass
4**	6504.039	40.58	54.0	13.42	AV	19.00	100	Horizontal	Pass
5	12214.171	47.45	74.0	26.55	Peak	249.00	100	Horizontal	Pass
5**	12214.171	37.73	54.0	16.27	AV	249.00	100	Horizontal	Pass
6	17363.327	51.79	74.0	22.21	Peak	211.00	200	Horizontal	Pass
6**	17363.327	42.07	54.0	11.93	AV	211.00	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	1526.319	44.40	74.0	29.60	Peak	342.00	200	Vertical	Pass
1**	1526.319	33.83	54.0	20.17	AV	342.00	200	Vertical	Pass
2	2974.884	54.34	74.0	19.66	Peak	219.00	300	Vertical	Pass
2**	2974.884	45.47	54.0	8.53	AV	219.00	300	Vertical	Pass
3	4243.002	47.52	74.0	26.48	Peak	241.00	200	Vertical	Pass
3**	4243.002	38.68	54.0	15.32	AV	241.00	200	Vertical	Pass
4	7262.758	54.55	74.0	19.45	Peak	213.00	300	Vertical	Pass
4**	7262.758	44.29	54.0	9.71	AV	213.00	300	Vertical	Pass
5	10849.695	48.79	74.0	25.21	Peak	189.00	200	Vertical	Pass
5**	10849.695	39.64	54.0	14.36	AV	189.00	200	Vertical	Pass
6	17541.834	53.80	74.0	20.21	Peak	136.00	200	Vertical	Pass
6**	17541.834	44.70	54.0	9.30	AV	136.00	200	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	1493.953	41.61	74.0	32.40	Peak	205.00	200	Horizontal	Pass
1**	1493.953	31.91	54.0	22.09	AV	205.00	200	Horizontal	Pass
2	2953.250	50.43	74.0	23.57	Peak	175.00	200	Horizontal	Pass
2**	2953.250	42.46	54.0	11.54	AV	175.00	200	Horizontal	Pass
3	5251.111	48.41	74.0	25.60	Peak	72.00	200	Horizontal	Pass
3**	5251.111	38.82	54.0	15.18	AV	72.00	200	Horizontal	Pass
4	6508.311	50.97	74.0	23.03	Peak	224.00	200	Horizontal	Pass
4**	6508.311	40.40	54.0	13.60	AV	224.00	200	Horizontal	Pass
5	12217.271	47.33	74.0	26.67	Peak	203.00	300	Horizontal	Pass
5**	12217.271	38.21	54.0	15.79	AV	203.00	300	Horizontal	Pass
6	17362.889	51.50	74.0	22.50	Peak	318.00	200	Horizontal	Pass
6**	17362.889	42.24	54.0	11.76	AV	318.00	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	1526.503	44.04	74.0	29.96	Peak	360.00	200	Vertical	Pass
1**	1526.503	34.42	54.0	19.58	AV	360.00	200	Vertical	Pass
2	2976.621	54.53	74.0	19.47	Peak	129.00	400	Vertical	Pass
2**	2976.621	45.10	54.0	8.90	AV	129.00	400	Vertical	Pass
3	4246.052	48.05	74.0	25.95	Peak	196.00	200	Vertical	Pass
3**	4246.052	37.75	54.0	16.25	AV	196.00	200	Vertical	Pass
4	7259.647	54.82	74.0	19.18	Peak	190.00	200	Vertical	Pass
4**	7259.647	44.46	54.0	9.54	AV	190.00	200	Vertical	Pass
5	10849.756	48.81	74.0	25.19	Peak	15.00	400	Vertical	Pass
5**	10849.756	40.41	54.0	13.59	AV	15.00	400	Vertical	Pass
6	17540.664	54.10	74.0	19.91	Peak	146.00	400	Vertical	Pass
6**	17540.664	44.68	54.0	9.32	AV	146.00	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	1489.296	41.63	74.0	32.38	Peak	314.00	400	Horizontal	Pass
1**	1489.296	31.04	54.0	22.96	AV	314.00	400	Horizontal	Pass
2	2948.676	50.17	74.0	23.83	Peak	113.00	100	Horizontal	Pass
2**	2948.676	42.52	54.0	11.48	AV	113.00	100	Horizontal	Pass
3	5251.636	48.55	74.0	25.46	Peak	62.00	200	Horizontal	Pass
3**	5251.636	38.70	54.0	15.30	AV	62.00	200	Horizontal	Pass
4	6501.829	51.34	74.0	22.66	Peak	140.00	200	Horizontal	Pass
4**	6501.829	40.54	54.0	13.46	AV	140.00	200	Horizontal	Pass
5	12215.389	47.04	74.0	26.96	Peak	133.00	300	Horizontal	Pass
5**	12215.389	37.45	54.0	16.55	AV	133.00	300	Horizontal	Pass
6	17364.570	51.70	74.0	22.30	Peak	149.00	100	Horizontal	Pass
6**	17364.570	42.62	54.0	11.38	AV	149.00	100	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	1529.337	43.63	74.0	30.37	Peak	51.00	100	Vertical	Pass
1**	1529.337	33.35	54.0	20.65	AV	51.00	100	Vertical	Pass
2	2977.220	53.79	74.0	20.21	Peak	27.00	200	Vertical	Pass
2**	2977.220	45.22	54.0	8.78	AV	27.00	200	Vertical	Pass
3	4246.861	46.82	74.0	27.18	Peak	39.00	200	Vertical	Pass
3**	4246.861	37.71	54.0	16.29	AV	39.00	200	Vertical	Pass
4	7257.763	53.98	74.0	20.02	Peak	62.00	400	Vertical	Pass
4**	7257.763	44.07	54.0	9.93	AV	62.00	400	Vertical	Pass
5	10855.424	48.00	74.0	26.00	Peak	29.00	400	Vertical	Pass
5**	10855.424	39.23	54.0	14.77	AV	29.00	400	Vertical	Pass
6	17540.128	53.70	74.0	20.31	Peak	310.00	300	Vertical	Pass
6**	17540.128	43.80	54.0	10.20	AV	310.00	300	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	1489.357	40.34	74.0	33.67	Peak	175.00	300	Horizontal	Pass
1**	1489.357	30.89	54.0	23.11	AV	175.00	300	Horizontal	Pass
2	2950.072	49.42	74.0	24.58	Peak	75.00	300	Horizontal	Pass
2**	2950.072	41.90	54.0	12.10	AV	75.00	300	Horizontal	Pass
3	5256.151	48.14	74.0	25.87	Peak	237.00	200	Horizontal	Pass
3**	5256.151	38.93	54.0	15.07	AV	237.00	200	Horizontal	Pass
4	6507.026	50.24	74.0	23.76	Peak	92.00	100	Horizontal	Pass
4**	6507.026	40.13	54.0	13.87	AV	92.00	100	Horizontal	Pass
5	12216.840	46.45	74.0	27.55	Peak	38.00	300	Horizontal	Pass
5**	12216.840	37.30	54.0	16.70	AV	38.00	300	Horizontal	Pass
6	17363.870	51.45	74.0	22.55	Peak	328.00	300	Horizontal	Pass
6**	17363.870	41.72	54.0	12.28	AV	328.00	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	1529.678	43.41	74.0	30.59	Peak	178.00	200	Vertical	Pass
1**	1529.678	33.98	54.0	20.02	AV	178.00	200	Vertical	Pass
2	2975.109	54.48	74.0	19.52	Peak	176.00	300	Vertical	Pass
2**	2975.109	44.16	54.0	9.84	AV	176.00	300	Vertical	Pass
3	4241.910	47.63	74.0	26.37	Peak	85.00	200	Vertical	Pass
3**	4241.910	36.91	54.0	17.09	AV	85.00	200	Vertical	Pass
4	7261.902	54.41	74.0	19.59	Peak	4.00	200	Vertical	Pass
4**	7261.902	44.03	54.0	9.97	AV	4.00	200	Vertical	Pass
5	10855.142	48.04	74.0	25.96	Peak	56.00	200	Vertical	Pass
5**	10855.142	39.83	54.0	14.17	AV	56.00	200	Vertical	Pass
6	17542.099	53.47	74.0	20.54	Peak	44.00	400	Vertical	Pass
6**	17542.099	44.21	54.0	9.79	AV	44.00	400	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	1492.329	40.83	74.0	33.18	Peak	290.00	200	Horizontal	Pass
1**	1492.329	31.33	54.0	22.67	AV	290.00	200	Horizontal	Pass
2	2947.270	50.28	74.0	23.72	Peak	237.00	100	Horizontal	Pass
2**	2947.270	42.10	54.0	11.90	AV	237.00	100	Horizontal	Pass
3	5253.890	48.30	74.0	25.71	Peak	212.00	200	Horizontal	Pass
3**	5253.890	37.92	54.0	16.08	AV	212.00	200	Horizontal	Pass
4	6505.359	50.29	74.0	23.71	Peak	196.00	400	Horizontal	Pass
4**	6505.359	39.89	54.0	14.11	AV	196.00	400	Horizontal	Pass
5	12221.045	47.17	74.0	26.83	Peak	190.00	100	Horizontal	Pass
5**	12221.045	37.28	54.0	16.72	AV	190.00	100	Horizontal	Pass
6	17363.440	51.39	74.0	22.61	Peak	347.00	300	Horizontal	Pass
6**	17363.440	41.70	54.0	12.30	AV	347.00	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	1532.181	43.53	74.0	30.47	Peak	176.00	200	Vertical	Pass
1**	1532.181	33.29	54.0	20.71	AV	176.00	200	Vertical	Pass
2	2972.925	53.71	74.0	20.30	Peak	99.00	300	Vertical	Pass
2**	2972.925	45.13	54.0	8.87	AV	99.00	300	Vertical	Pass
3	4244.768	46.79	74.0	27.21	Peak	67.00	200	Vertical	Pass
3**	4244.768	37.68	54.0	16.32	AV	67.00	200	Vertical	Pass
4	7256.897	53.97	74.0	20.03	Peak	188.00	200	Vertical	Pass
4**	7256.897	44.01	54.0	10.00	AV	188.00	200	Vertical	Pass
5	10856.676	47.93	74.0	26.07	Peak	195.00	300	Vertical	Pass
5**	10856.676	39.18	54.0	14.83	AV	195.00	300	Vertical	Pass
6	17547.068	53.67	74.0	20.33	Peak	71.00	200	Vertical	Pass
6**	17547.068	43.73	54.0	10.27	AV	71.00	200	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	1492.186	41.55	74.0	32.45	Peak	154.00	200	Horizontal	Pass
1**	1492.186	30.98	54.0	23.03	AV	154.00	200	Horizontal	Pass
2	2949.780	50.08	74.0	23.92	Peak	185.00	400	Horizontal	Pass
2**	2949.780	42.42	54.0	11.58	AV	185.00	400	Horizontal	Pass
3	5252.631	48.54	74.0	25.46	Peak	192.00	200	Horizontal	Pass
3**	5252.631	38.66	54.0	15.34	AV	192.00	200	Horizontal	Pass
4	6505.318	51.29	74.0	22.71	Peak	252.00	400	Horizontal	Pass
4**	6505.318	40.46	54.0	13.54	AV	252.00	400	Horizontal	Pass
5	12218.375	46.99	74.0	27.02	Peak	232.00	200	Horizontal	Pass
5**	12218.375	37.36	54.0	16.65	AV	232.00	200	Horizontal	Pass
6	17360.316	51.68	74.0	22.32	Peak	219.00	200	Horizontal	Pass
6**	17360.316	42.58	54.0	11.42	AV	219.00	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	1529.079	43.32	74.0	30.68	Peak	293.00	100	Vertical	Pass
1**	1529.079	33.97	54.0	20.04	AV	293.00	100	Vertical	Pass
2	2974.676	54.42	74.0	19.58	Peak	137.00	300	Vertical	Pass
2**	2974.676	44.14	54.0	9.86	AV	137.00	300	Vertical	Pass
3	4244.291	47.54	74.0	26.46	Peak	176.00	200	Vertical	Pass
3**	4244.291	36.82	54.0	17.18	AV	176.00	200	Vertical	Pass
4	7260.208	54.40	74.0	19.60	Peak	329.00	300	Vertical	Pass
4**	7260.208	43.98	54.0	10.03	AV	329.00	300	Vertical	Pass
5	10850.350	47.96	74.0	26.04	Peak	259.00	300	Vertical	Pass
5**	10850.350	39.77	54.0	14.23	AV	259.00	300	Vertical	Pass
6	17544.697	53.42	74.0	20.58	Peak	329.00	300	Vertical	Pass
6**	17544.697	44.13	54.0	9.87	AV	329.00	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	1491.237	41.87	74.0	32.13	Peak	294.00	300	Horizontal	Pass
1**	1491.237	31.86	54.0	22.14	AV	294.00	300	Horizontal	Pass
2	2948.906	51.01	74.0	22.99	Peak	302.00	100	Horizontal	Pass
2**	2948.906	42.91	54.0	11.10	AV	302.00	100	Horizontal	Pass
3	5254.165	48.76	74.0	25.24	Peak	156.00	200	Horizontal	Pass
3**	5254.165	39.56	54.0	14.44	AV	156.00	200	Horizontal	Pass
4	6502.107	51.48	74.0	22.52	Peak	226.00	100	Horizontal	Pass
4**	6502.107	40.83	54.0	13.17	AV	226.00	100	Horizontal	Pass
5	12216.192	47.52	74.0	26.48	Peak	45.00	100	Horizontal	Pass
5**	12216.192	38.23	54.0	15.77	AV	45.00	100	Horizontal	Pass
6	17358.145	51.97	74.0	22.03	Peak	23.00	200	Horizontal	Pass
6**	17358.145	42.65	54.0	11.35	AV	23.00	200	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	1524.362	43.50	74.0	30.50	Peak	291.00	300	Vertical	Pass
1**	1524.362	32.35	54.0	21.65	AV	291.00	300	Vertical	Pass
2	2973.875	52.81	74.0	21.20	Peak	270.00	300	Vertical	Pass
2**	2973.875	44.64	54.0	9.36	AV	270.00	300	Vertical	Pass
3	4246.359	45.92	74.0	28.08	Peak	277.00	200	Vertical	Pass
3**	4246.359	36.73	54.0	17.27	AV	277.00	200	Vertical	Pass
4	7257.063	53.69	74.0	20.31	Peak	112.00	300	Vertical	Pass
4**	7257.063	43.20	54.0	10.81	AV	112.00	300	Vertical	Pass
5	10854.324	47.62	74.0	26.38	Peak	107.00	400	Vertical	Pass
5**	10854.324	38.59	54.0	15.42	AV	107.00	400	Vertical	Pass
6	17544.444	53.63	74.0	20.37	Peak	165.00	400	Vertical	Pass
6**	17544.444	43.07	54.0	10.93	AV	165.00	400	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	1495.586	41.90	74.0	32.10	Peak	258.00	100	Horizontal	Pass
1**	1495.586	31.91	54.0	22.09	AV	258.00	100	Horizontal	Pass
2	2952.374	50.96	74.0	23.05	Peak	55.00	200	Horizontal	Pass
2**	2952.374	42.81	54.0	11.19	AV	55.00	200	Horizontal	Pass
3	5255.388	48.80	74.0	25.20	Peak	327.00	200	Horizontal	Pass
3**	5255.388	39.55	54.0	14.45	AV	327.00	200	Horizontal	Pass
4	6503.020	51.53	74.0	22.48	Peak	49.00	300	Horizontal	Pass
4**	6503.020	40.82	54.0	13.18	AV	49.00	300	Horizontal	Pass
5	12221.365	47.53	74.0	26.47	Peak	96.00	300	Horizontal	Pass
5**	12221.365	38.21	54.0	15.79	AV	96.00	300	Horizontal	Pass
6	17361.588	51.92	74.0	22.08	Peak	92.00	200	Horizontal	Pass
6**	17361.588	42.67	54.0	11.33	AV	92.00	200	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	1527.670	43.24	74.0	30.76	Peak	252.00	300	Vertical	Pass
1**	1527.670	33.14	54.0	20.87	AV	252.00	300	Vertical	Pass
2	2976.029	53.69	74.0	20.31	Peak	218.00	300	Vertical	Pass
2**	2976.029	43.59	54.0	10.41	AV	218.00	300	Vertical	Pass
3	4249.664	47.13	74.0	26.87	Peak	324.00	200	Vertical	Pass
3**	4249.664	36.81	54.0	17.19	AV	324.00	200	Vertical	Pass
4	7263.550	54.22	74.0	19.78	Peak	281.00	200	Vertical	Pass
4**	7263.550	43.35	54.0	10.66	AV	281.00	200	Vertical	Pass
5	10855.993	47.91	74.0	26.09	Peak	291.00	200	Vertical	Pass
5**	10855.993	39.42	54.0	14.58	AV	291.00	200	Vertical	Pass
6	17541.313	52.91	74.0	21.09	Peak	287.00	400	Vertical	Pass
6**	17541.313	43.86	54.0	10.14	AV	287.00	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.

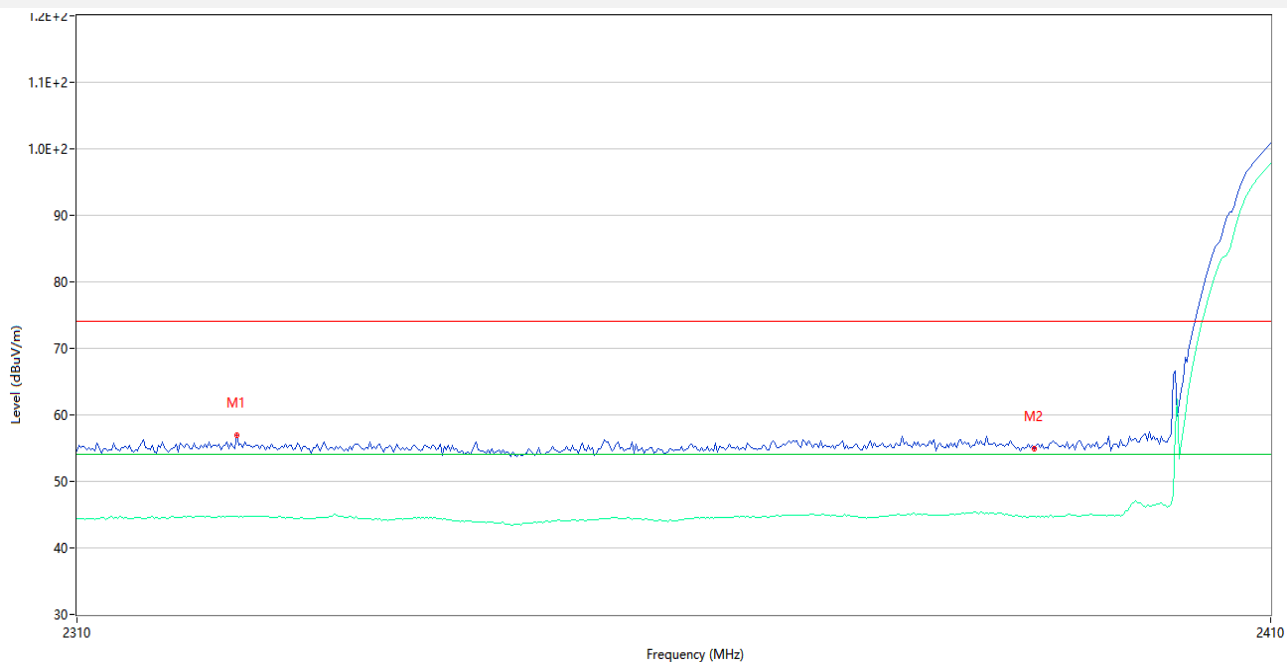
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2020, 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: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

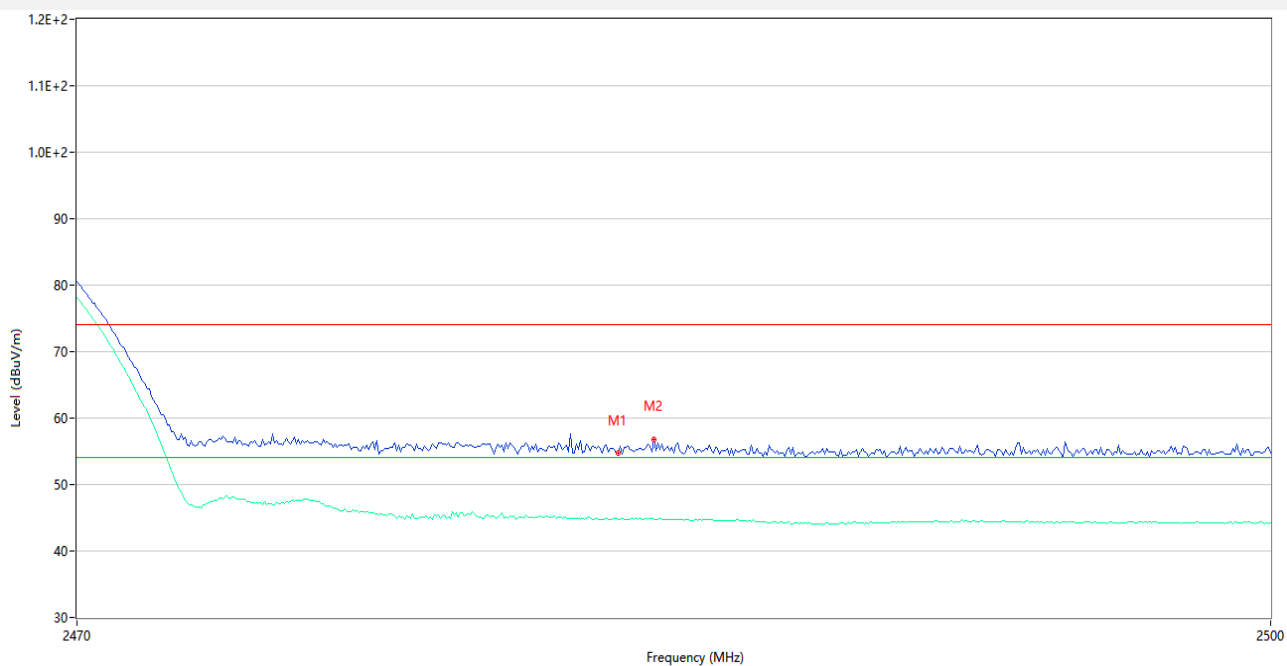
Test Data and Plots

802.11b LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2322.550	56.73	74.0	17.27	Peak	4.00	300	Horizontal	Pass
1**	2322.550	44.36	54.0	9.64	AV	4.00	300	Horizontal	Pass
2	2390.000	54.13	74.0	19.87	Peak	65.00	300	Horizontal	Pass
2**	2390.000	43.63	54.0	8.37	AV	65.00	300	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	53.71	74.0	20.29	Peak	152.00	100	Horizontal	Pass
1**	2483.500	45.70	54.0	8.30	AV	152.00	100	Horizontal	Pass
2	2495.081	55.01	74.0	18.99	Peak	194.00	300	Horizontal	Pass
2**	2495.081	42.69	54.0	11.31	AV	194.00	300	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	2335.288	54.86	74.0	19.14	Peak	220.00	300	Horizontal	Pass
1**	2335.288	42.99	54.0	11.01	AV	220.00	300	Horizontal	Pass
2	2390.000	56.36	74.0	17.64	Peak	147.00	100	Horizontal	Pass
2**	2390.000	44.85	54.0	9.15	AV	147.00	100	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	55.46	74.0	18.54	Peak	351.00	100	Horizontal	Pass
1**	2483.500	44.86	54.0	9.14	AV	351.00	100	Horizontal	Pass
2	2484.533	56.77	74.0	17.23	Peak	23.00	200	Horizontal	Pass
2**	2484.533	44.90	54.0	9.10	AV	23.00	200	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	2386.909	56.80	74.0	17.20	Peak	275.00	300	Horizontal	Pass
1**	2386.909	45.52	54.0	8.48	AV	275.00	300	Horizontal	Pass
2	2390.000	55.71	74.0	18.29	Peak	219.00	200	Horizontal	Pass
2**	2390.000	44.83	54.0	9.17	AV	219.00	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	59.28	74.0	14.72	Peak	280.00	300	Horizontal	Pass
1**	2483.500	44.57	54.0	9.43	AV	280.00	300	Horizontal	Pass
2	2484.742	58.38	74.0	15.62	Peak	194.00	100	Horizontal	Pass
2**	2484.742	45.53	54.0	8.47	AV	194.00	100	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

SISO-ANT-A

802.11b Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-10.18	8	Pass
Middle	-10.71	8	Pass
High	-10.66	8	Pass

802.11g Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-12.53	8	Pass
Middle	-12.40	8	Pass
High	-12.45	8	Pass

802.11n-20 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-11.89	8	Pass
Middle	-12.85	8	Pass
High	-12.58	8	Pass

SISO-ANT-B

802.11b Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-9.60	8	Pass
Middle	-9.53	8	Pass
High	-11.45	8	Pass

802.11g Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-11.27	8	Pass
Middle	-11.33	8	Pass
High	-12.19	8	Pass

802.11n-20 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-11.91	8	Pass
Middle	-12.27	8	Pass
High	-12.71	8	Pass

MIMO-A

802.11b Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-13.29	8	Pass
Middle	-12.91	8	Pass
High	-13.38	8	Pass

802.11g Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-14.96	8	Pass
Middle	-14.37	8	Pass
High	-14.55	8	Pass

802.11n-20 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-14.84	8	Pass
Middle	-16.06	8	Pass
High	-15.05	8	Pass

MIMO-B

802.11b Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-13.20	8	Pass
Middle	-13.64	8	Pass
High	-14.38	8	Pass

802.11g Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-15.17	8	Pass
Middle	-16.00	8	Pass
High	-16.80	8	Pass

802.11n-20 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-16.18	8	Pass
Middle	-15.82	8	Pass
High	-16.58	8	Pass

MIMO

802.11b Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-10.23	8	Pass
Middle	-10.25	8	Pass
High	-10.84	8	Pass

802.11g Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-12.05	8	Pass
Middle	-12.10	8	Pass
High	-12.52	8	Pass

802.11n-20 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-12.45	8	Pass
Middle	-12.93	8	Pass
High	-12.74	8	Pass

Test Plots

SISO-ANT-A

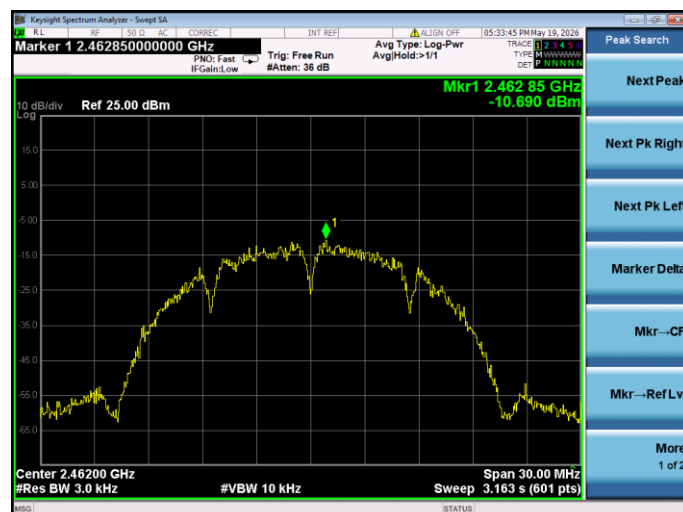
802.11b LOW CHANNEL



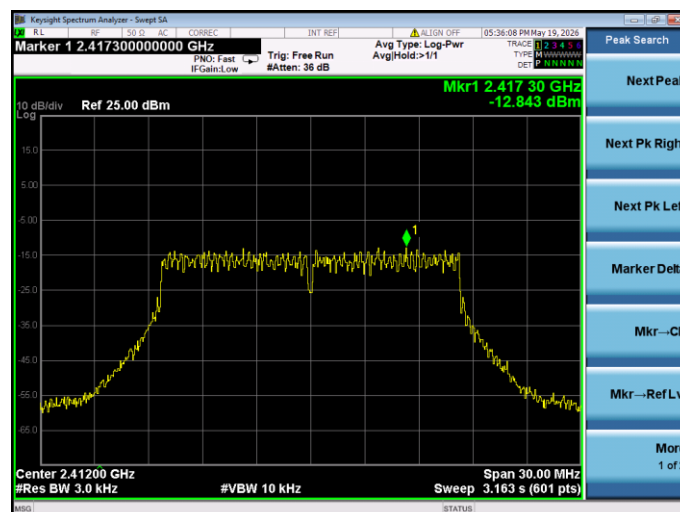
802.11b MIDDLE CHANNEL



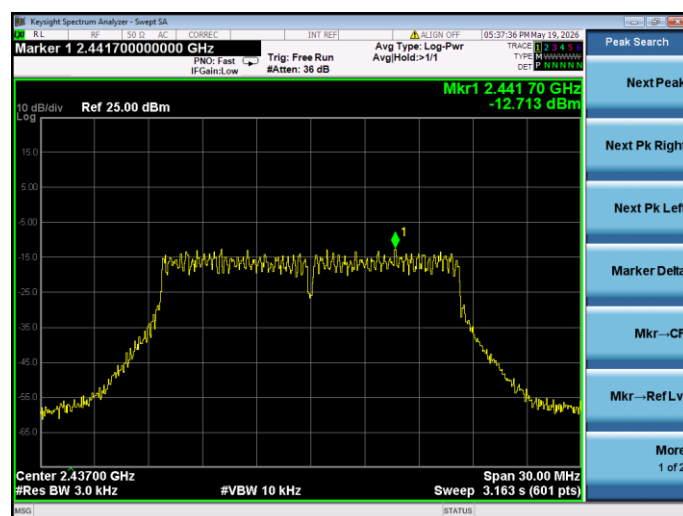
802.11b HIGH CHANNEL



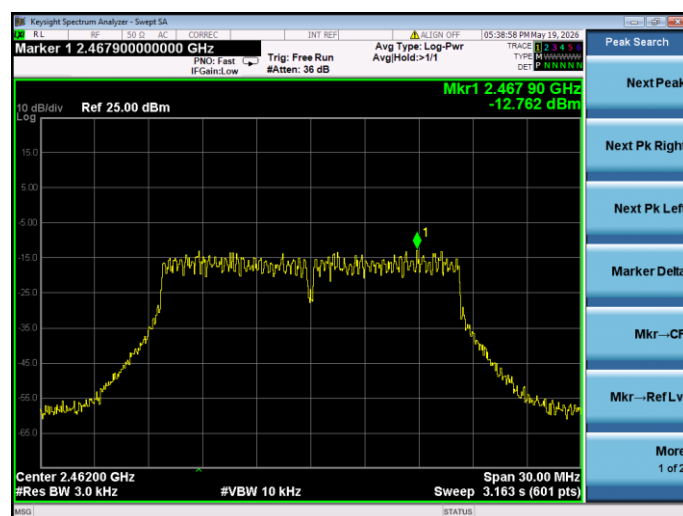
802.11g LOW CHANNEL



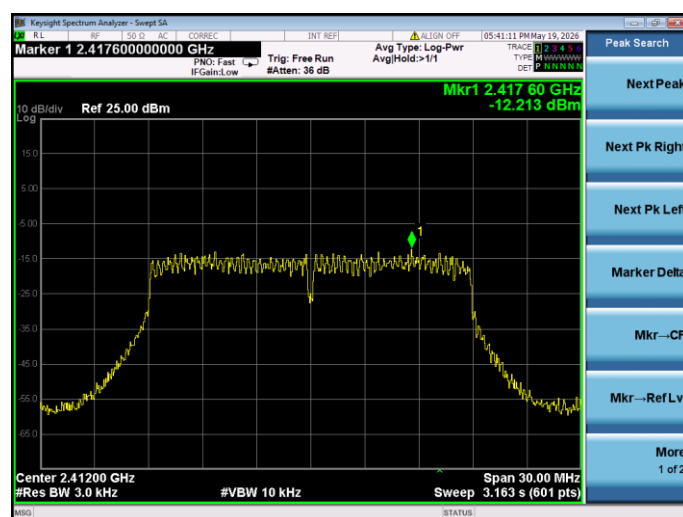
802.11g MIDDLE CHANNEL



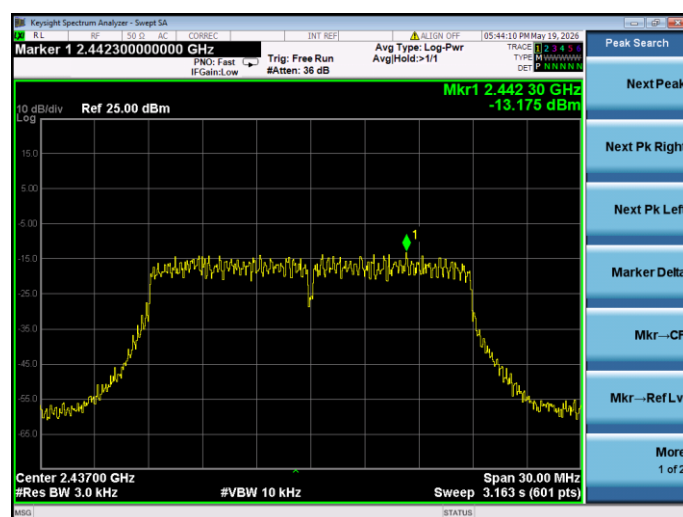
802.11g HIGH CHANNEL



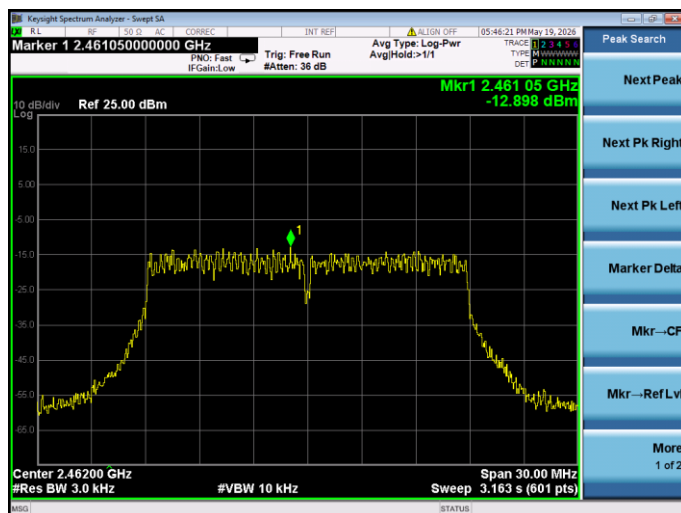
802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



SISO-ANT-B

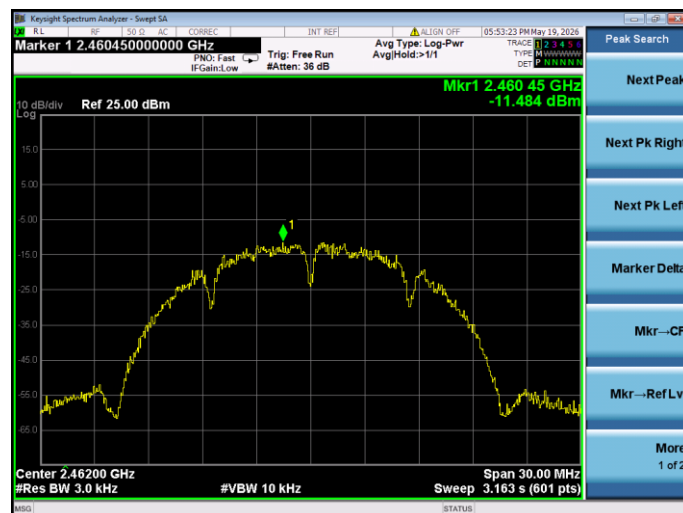
802.11b LOW CHANNEL



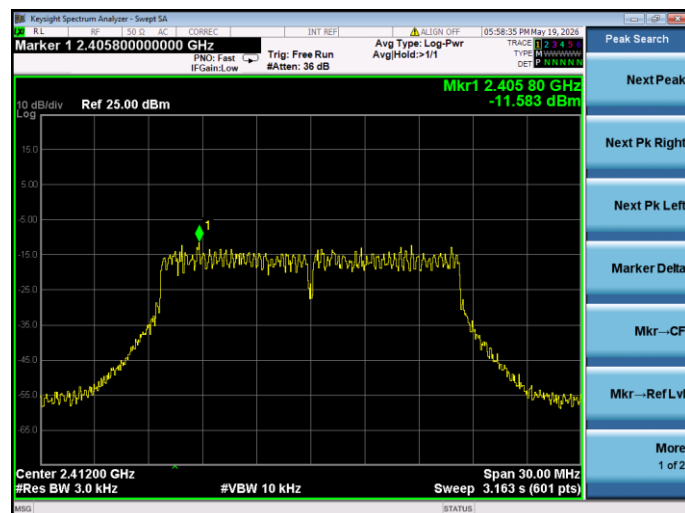
802.11b MIDDLE CHANNEL



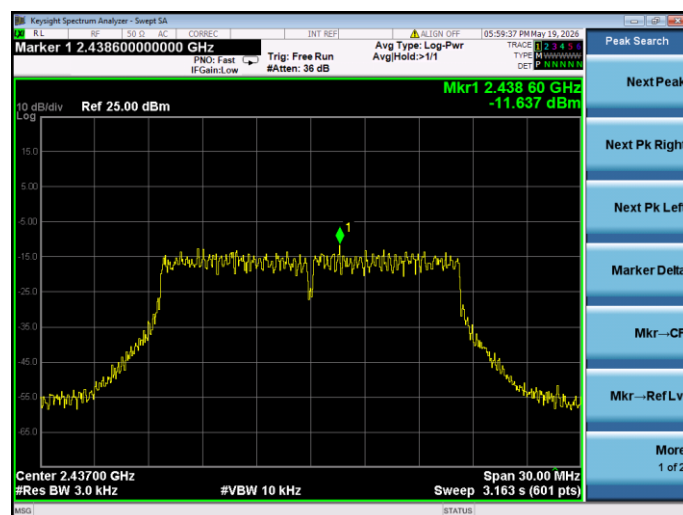
802.11b HIGH CHANNEL



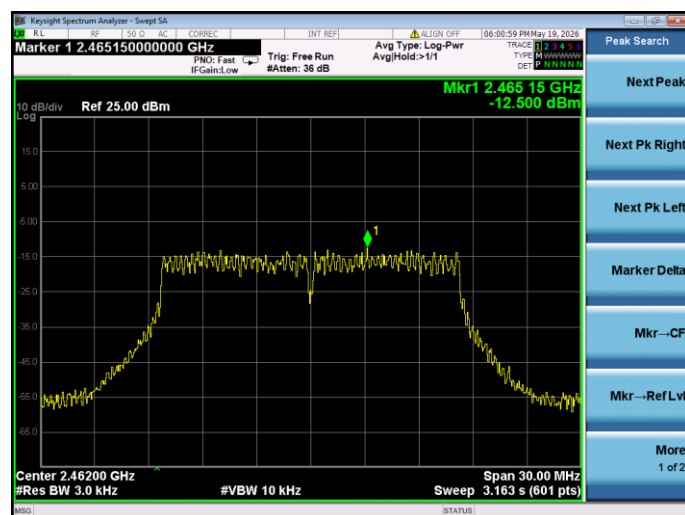
802.11g LOW CHANNEL



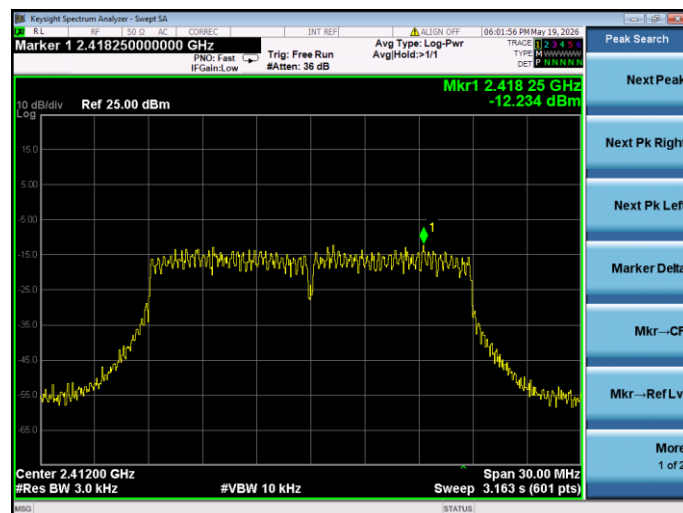
802.11g MIDDLE CHANNEL



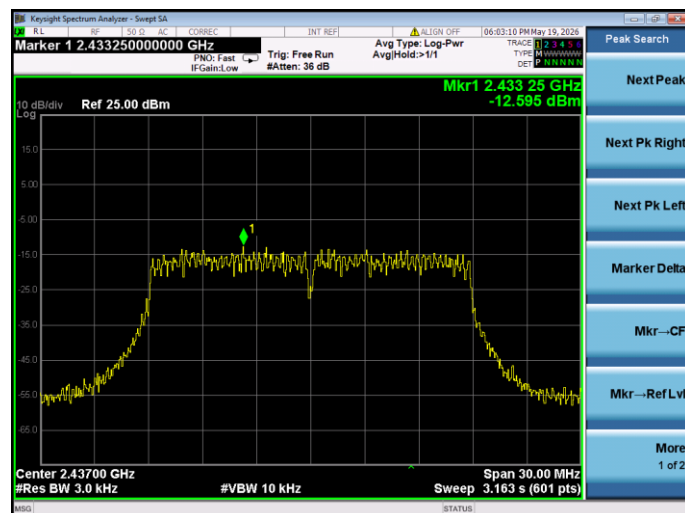
802.11g HIGH CHANNEL



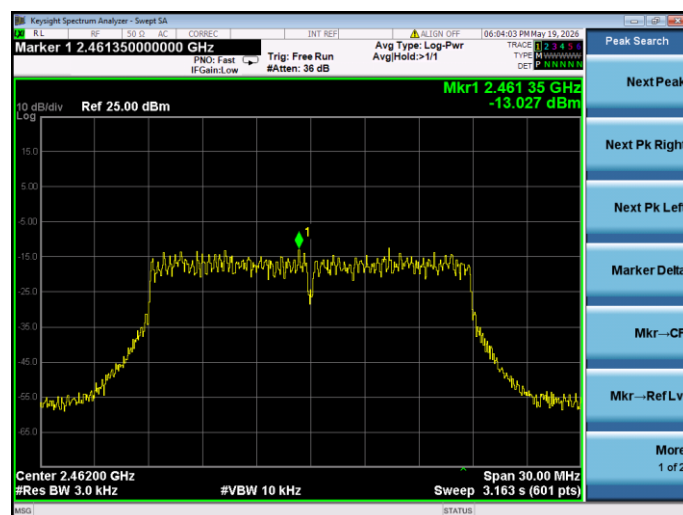
802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2640004-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2640004-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2640004-AI.PDF”.

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