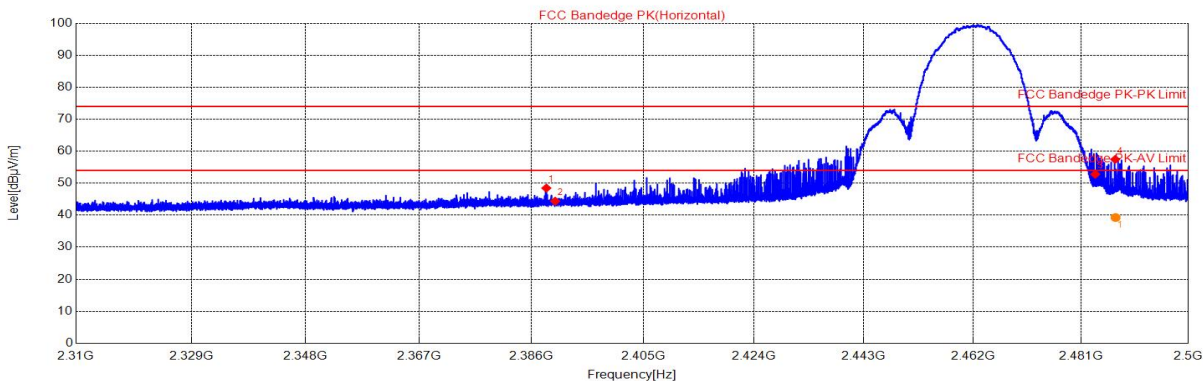




TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11b_2462_Ant1/ Horizontal



● PK Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2388.51	58.81	-10.33	48.48	74.00	25.52	PK	155	1	Horizontal
2	2390.01	54.72	-10.32	44.40	74.00	29.60	PK	155	348	Horizontal
3	2483.51	63.42	-10.61	52.81	74.00	21.19	PK	155	255	Horizontal
4	2487.03	68.07	-10.62	57.45	74.00	16.55	PK	155	317	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
4	2487.10	49.89	-10.62	39.27	74.00	34.73	PK	151.9	200.3	Horizontal

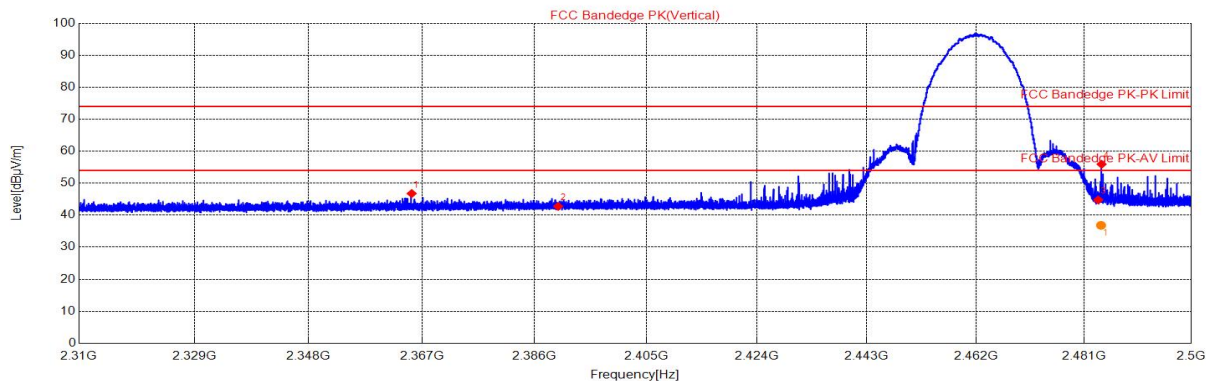
Remarks:

- 1.Margin=Limit-Final Value, Final Value=Reading + Factor.
- 2.Factor=Antenna Factor + Cable Loss-Preamp Gain.
- 3.The Peak value is also below the average limit of 54 dBμV/m.



TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11b_2462_Ant1/ Vertical



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2365.26	57.13	-10.35	46.78	74.00	27.22	PK	155	261	Vertical
2	2390.01	53.09	-10.32	42.77	74.00	31.23	PK	155	337	Vertical
3	2483.51	55.38	-10.61	44.77	74.00	29.23	PK	155	22	Vertical
4	2484.10	66.55	-10.61	55.94	74.00	18.06	PK	155	255	Vertical

Final Data List

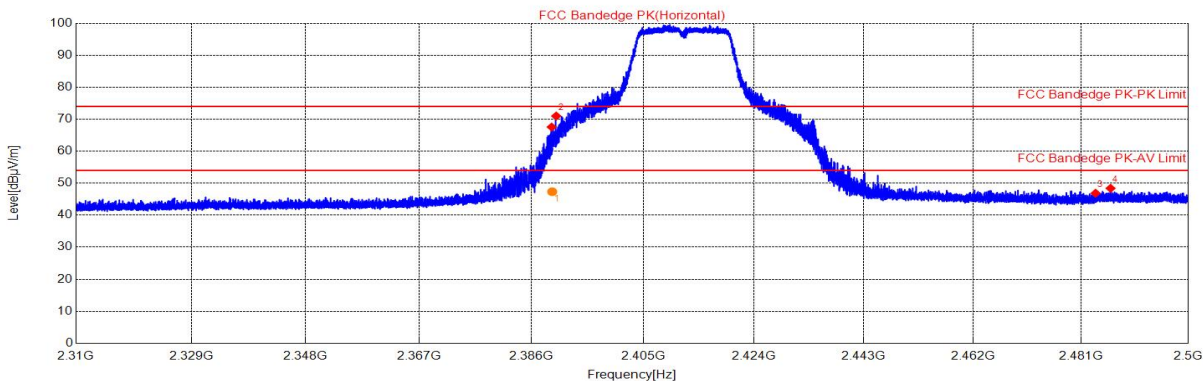
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
4	2484.00	47.45	-10.61	36.84	74.00	37.16	PK	153.5	257	Vertical

Remarks:

- 1.Margin=Limit-Final Value, Final Value=Reading + Factor.
- 2.Factor=Antenna Factor + Cable Loss-Preamp Gain.
- 3.The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11g_2412_Ant1/ Horizontal



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2389.41	77.91	-10.33	67.58	74.00	6.42	PK	155	330	Horizontal
2	2390.18	81.34	-10.32	71.02	74.00	2.98	PK	155	330	Horizontal
3	2483.57	57.49	-10.61	46.88	74.00	27.12	PK	155	167	Horizontal
4	2486.22	59.03	-10.62	48.41	74.00	25.59	PK	155	343	Horizontal

Final Data List

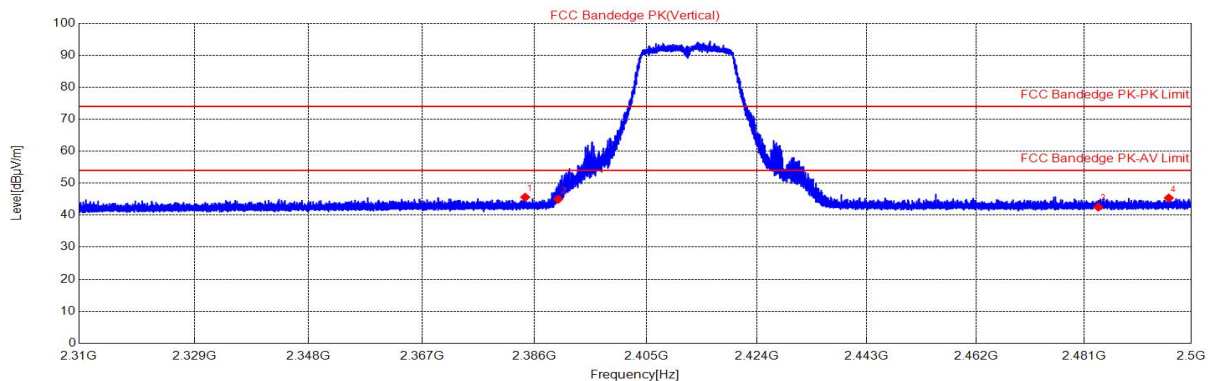
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2389.50	57.68	-10.33	47.35	74.00	26.65	PK	184.7	332.8	Horizontal

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11g_2412_Ant1/ Vertical



● PK Detector

Suspected List

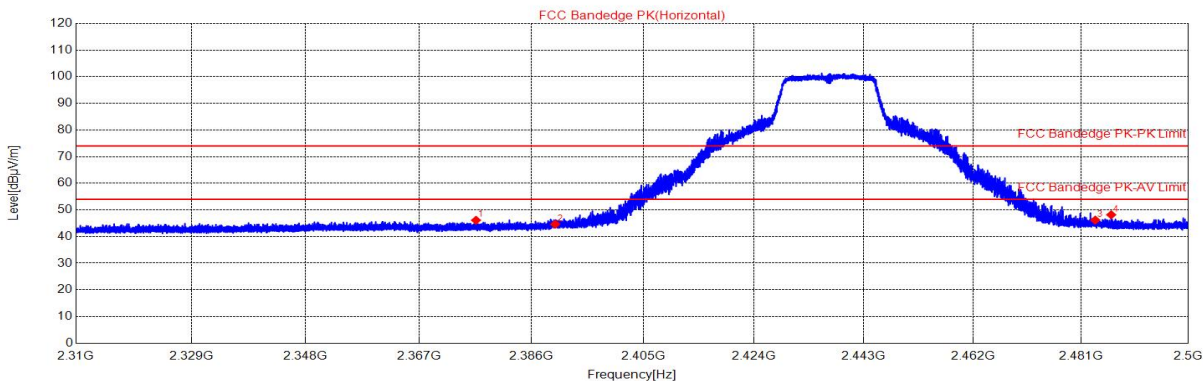
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2384.42	55.97	-10.33	45.64	74.00	28.36	PK	155	359	Vertical
2	2390.01	55.31	-10.32	44.99	74.00	29.01	PK	155	311	Vertical
3	2483.51	53.13	-10.61	42.52	74.00	31.48	PK	155	171	Vertical
4	2496.00	56.02	-10.63	45.39	74.00	28.61	PK	155	166	Vertical

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11g_2437_Ant1/ Horizontal



Suspected List

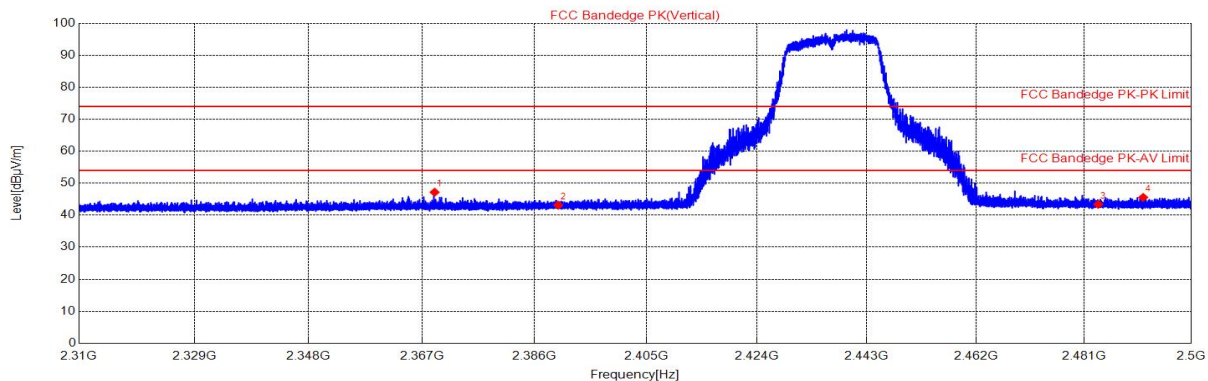
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2376.60	56.46	-10.34	46.12	74.00	27.88	PK	155	82	Horizontal
2	2390.01	54.94	-10.32	44.62	74.00	29.38	PK	155	272	Horizontal
3	2483.51	56.79	-10.61	46.18	74.00	27.82	PK	155	266	Horizontal
4	2486.33	58.79	-10.62	48.17	74.00	25.83	PK	155	285	Horizontal

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11g_2437_Ant1/ Vertical



● PK Detector

Suspected List

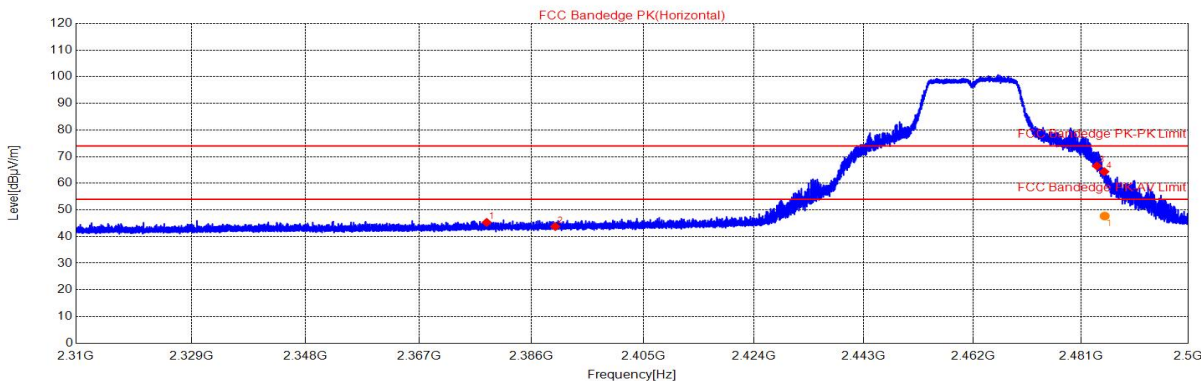
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2369.12	57.54	-10.35	47.19	74.00	26.81	PK	155	261	Vertical
2	2390.01	53.47	-10.32	43.15	74.00	30.85	PK	155	242	Vertical
3	2483.51	53.99	-10.61	43.38	74.00	30.62	PK	155	73	Vertical
4	2491.45	56.18	-10.62	45.56	74.00	28.44	PK	155	261	Vertical

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11g_2462_Ant1/ Horizontal



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2378.41	55.64	-10.34	45.30	74.00	28.70	PK	155	359	Horizontal
2	2390.01	54.07	-10.32	43.75	74.00	30.25	PK	155	331	Horizontal
3	2483.80	77.09	-10.61	66.48	74.00	7.52	PK	155	172	Horizontal
4	2485.10	74.94	-10.61	64.33	74.00	9.67	PK	155	318	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
4	2485.17	58.30	-10.61	47.69	74.00	26.31	PK	154.9	195	Horizontal

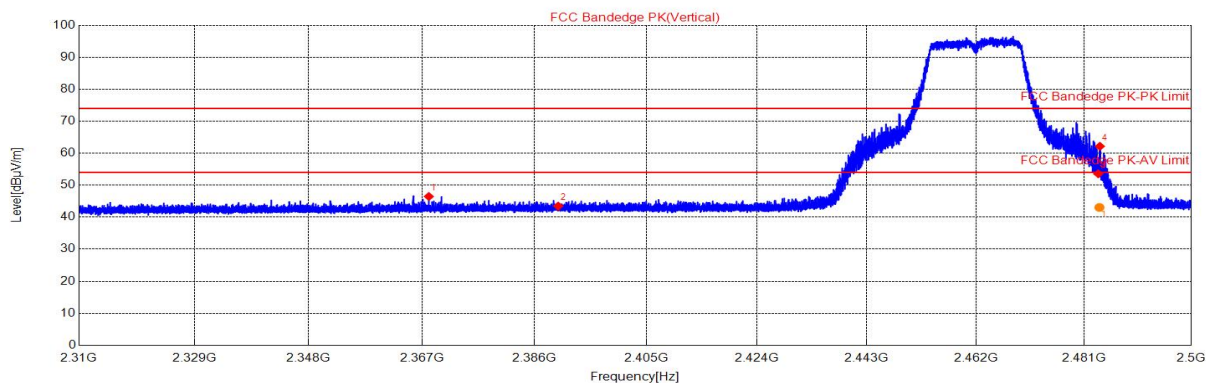
Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.



TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11g_2462_Ant1/ Vertical



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2368.15	56.83	-10.35	46.48	74.00	27.52	PK	155	260	Vertical
2	2390.01	53.79	-10.32	43.47	74.00	30.53	PK	155	278	Vertical
3	2483.51	64.19	-10.61	53.58	74.00	20.42	PK	155	260	Vertical
4	2483.80	72.78	-10.61	62.17	74.00	11.83	PK	155	260	Vertical

Final Data List

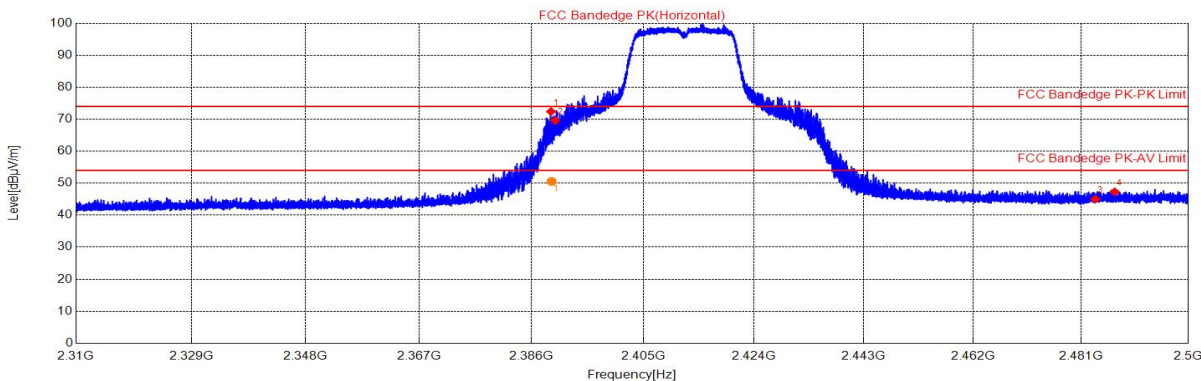
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
4	2483.71	53.67	-10.61	43.06	74.00	30.94	PK	155.1	258	Vertical

Remarks:

- 1.Margin=Limit-Final Value, Final Value=Reading + Factor.
- 2.Factor=Antenna Factor + Cable Loss-Preamp Gain.
- 3.The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n20_2412_Ant1/ Horizontal



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2389.31	82.73	-10.33	72.40	74.00	1.60	PK	155	324	Horizontal
2	2390.01	79.95	-10.32	69.63	74.00	4.37	PK	155	324	Horizontal
3	2483.51	55.63	-10.61	45.02	74.00	28.98	PK	155	0	Horizontal
4	2486.95	57.91	-10.62	47.29	74.00	26.71	PK	155	337	Horizontal

Final Data List

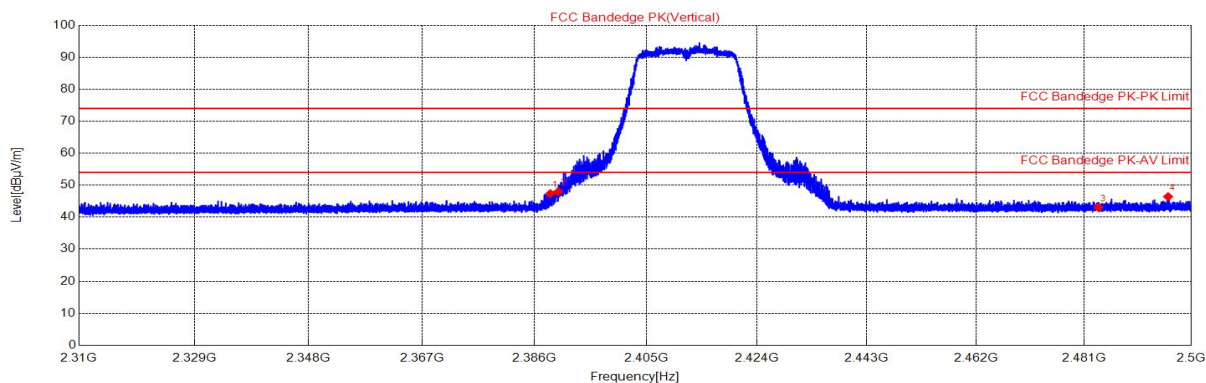
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2389.39	60.89	-10.33	50.56	74.00	23.44	PK	182.5	330	Horizontal

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n20_2412_Ant1/ Vertical



● PK Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2388.68	57.70	-10.33	47.37	74.00	26.63	PK	155	316	Vertical
2	2390.01	58.29	-10.32	47.97	74.00	26.03	PK	155	283	Vertical
3	2483.51	53.69	-10.61	43.08	74.00	30.92	PK	155	151	Vertical
4	2495.86	57.07	-10.63	46.44	74.00	27.56	PK	155	1	Vertical

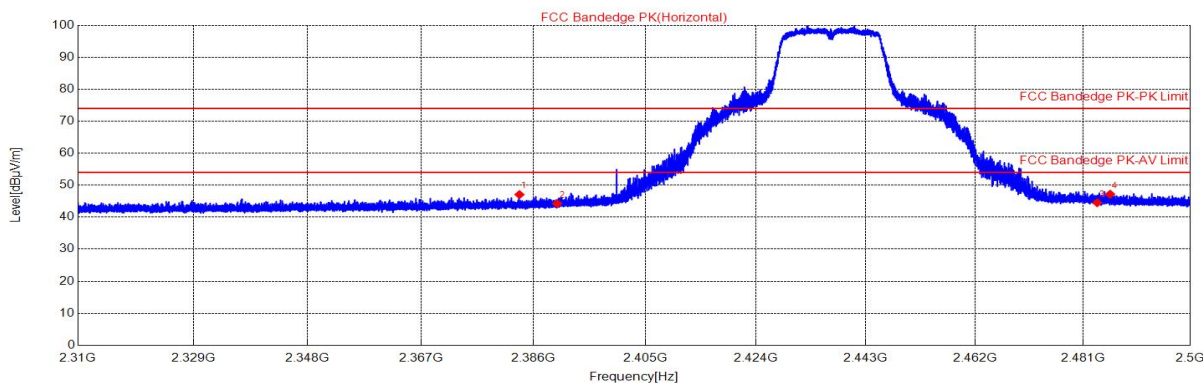
Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.



TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n20_2437_Ant1/ Horizontal



● PK Detector

Suspected List

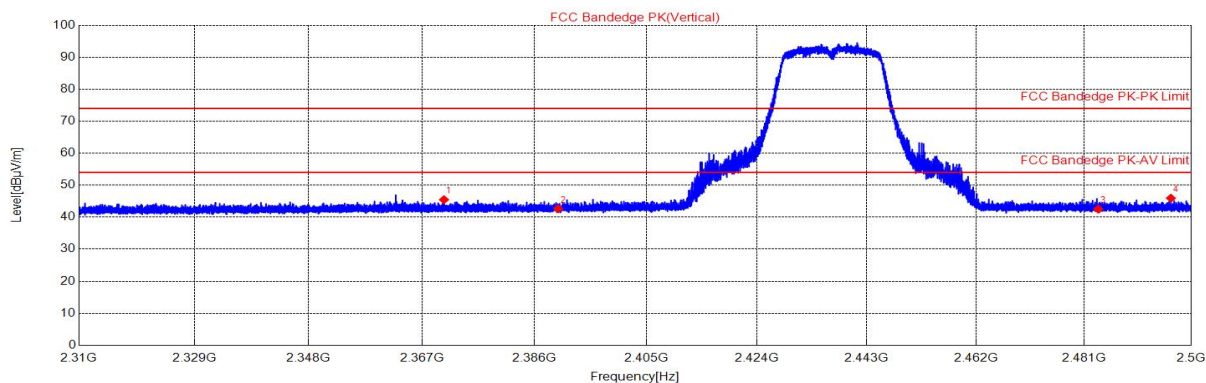
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2383.62	57.42	-10.34	47.08	74.00	26.92	PK	155	179	Horizontal
2	2390.01	54.58	-10.32	44.26	74.00	29.74	PK	155	330	Horizontal
3	2483.51	55.14	-10.61	44.53	74.00	29.47	PK	155	324	Horizontal
4	2485.79	57.81	-10.61	47.20	74.00	26.80	PK	155	0	Horizontal

Remarks:

- 1.Margin=Limit-Final Value, Final Value=Reading + Factor.
- 2.Factor=Antenna Factor + Cable Loss-Preamp Gain.
- 3.The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n20_2437_Ant1/ Vertical



● PK Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2370.70	55.83	-10.35	45.48	74.00	28.52	PK	155	107	Vertical
2	2390.01	52.96	-10.32	42.64	74.00	31.36	PK	155	260	Vertical
3	2483.51	53.13	-10.61	42.52	74.00	31.48	PK	155	152	Vertical
4	2496.36	56.57	-10.63	45.94	74.00	28.06	PK	155	317	Vertical

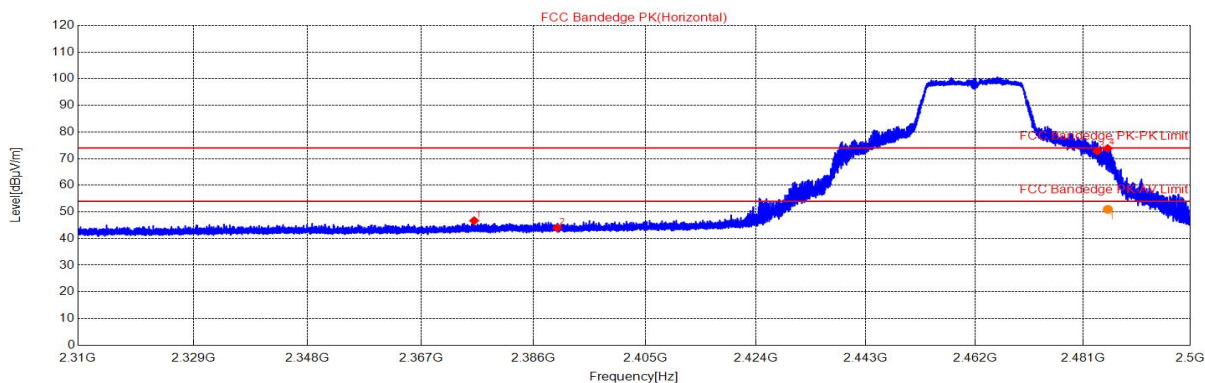
Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.



TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n20_2462_Ant1/ Horizontal



● PK Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2375.95	57.05	-10.35	46.70	74.00	27.30	PK	155	335	Horizontal
2	2390.01	54.29	-10.32	43.97	74.00	30.03	PK	155	1	Horizontal
3	2483.51	83.43	-10.61	72.82	74.00	1.18	PK	155	1	Horizontal
4	2485.35	84.40	-10.61	73.79	74.00	0.21	PK	155	329	Horizontal

Final Data List

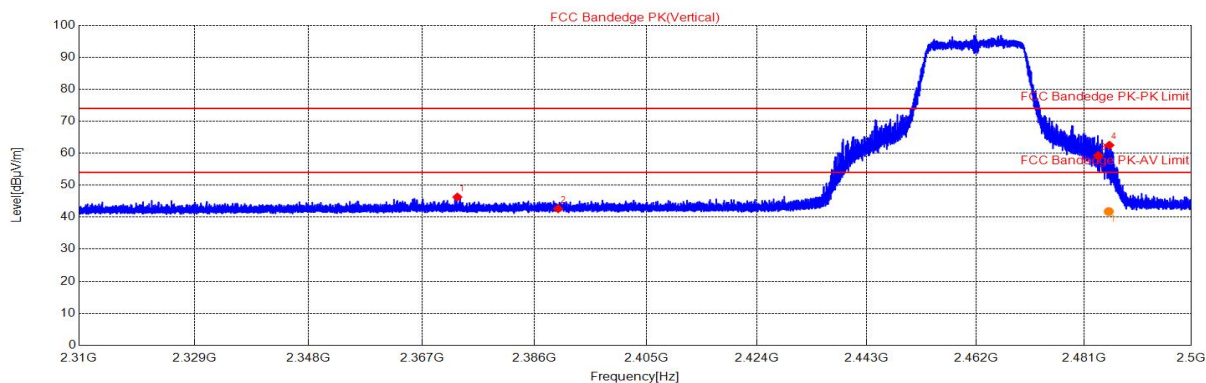
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
4	2485.37	61.56	-10.61	50.95	74.00	23.05	PK	149.9	188.8	Horizontal

Remarks:

- 1.Margin=Limit-Final Value, Final Value=Reading + Factor.
- 2.Factor=Antenna Factor + Cable Loss-Preamp Gain.
- 3.The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n20_2462_Ant1/ Vertical



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2372.95	56.65	-10.34	46.31	74.00	27.69	PK	155	267	Vertical
2	2390.01	52.96	-10.32	42.64	74.00	31.36	PK	155	123	Vertical
3	2483.51	69.89	-10.61	59.28	74.00	14.72	PK	155	260	Vertical
4	2485.48	73.12	-10.61	62.51	74.00	11.49	PK	155	260	Vertical

Final Data List

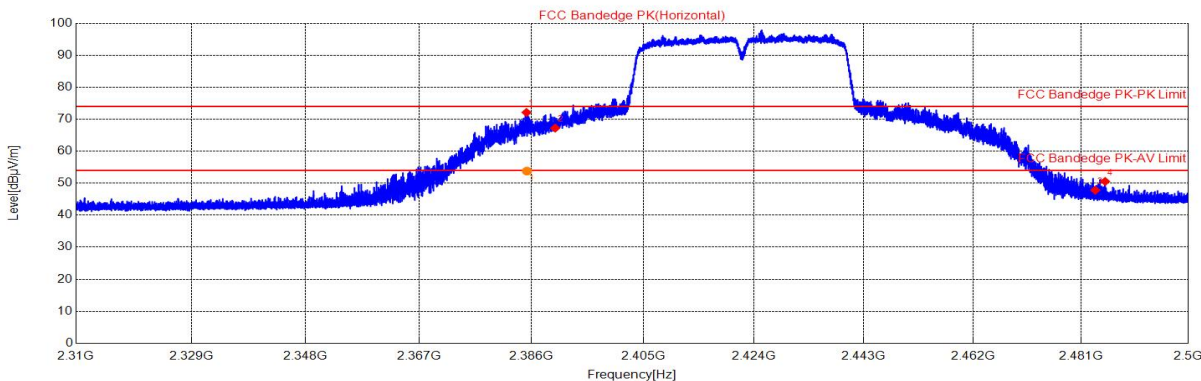
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
4	2485.36	52.40	-10.61	41.79	74.00	32.21	PK	152.2	256.1	Vertical

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n40_2422_Ant1/ Horizontal



● PK Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2385.15	82.47	-10.34	72.13	74.00	1.87	PK	155	330	Horizontal
2	2390.01	77.56	-10.32	67.24	74.00	6.76	PK	155	330	Horizontal
3	2483.51	58.44	-10.61	47.83	74.00	26.17	PK	155	324	Horizontal
4	2485.26	61.17	-10.61	50.56	74.00	23.44	PK	155	324	Horizontal

Final Data List

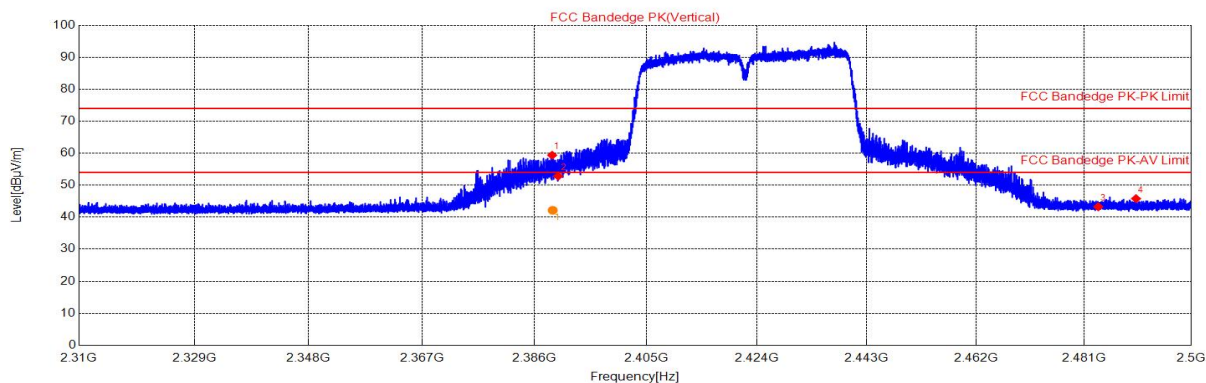
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2385.21	64.14	-10.34	53.80	74.00	20.20	PK	158.3	326.6	Horizontal

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n40_2422_Ant1/ Vertical



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2388.99	69.71	-10.33	59.38	74.00	14.62	PK	155	260	Vertical
2	2390.01	63.17	-10.32	52.85	74.00	21.15	PK	155	260	Vertical
3	2483.51	53.88	-10.61	43.27	74.00	30.73	PK	155	359	Vertical
4	2490.19	56.42	-10.62	45.80	74.00	28.20	PK	155	267	Vertical

Final Data List

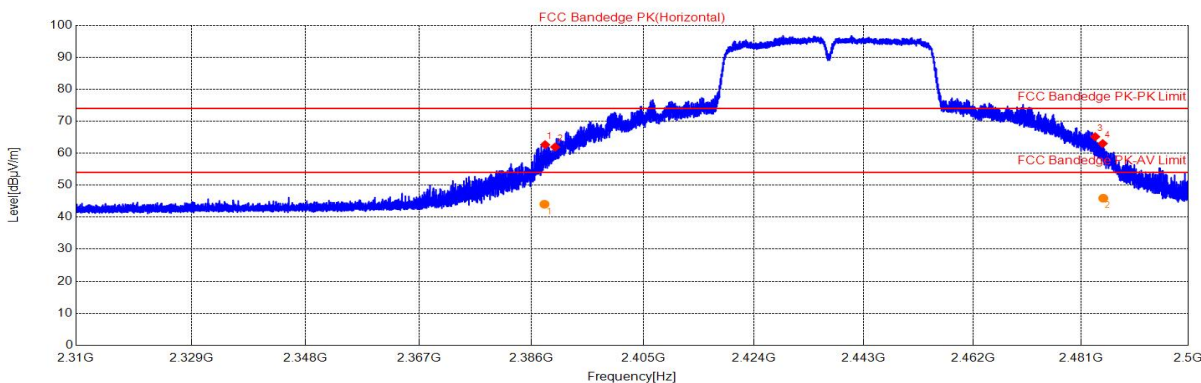
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2389.07	52.50	-10.33	42.17	74.00	31.83	PK	101.4	263.2	Vertical

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n40_2437_Ant1/ Horizontal



● PK Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2388.30	73.00	-10.32	62.68	74.00	11.32	PK	155	325	Horizontal
2	2390.01	72.27	-10.32	61.95	74.00	12.05	PK	155	325	Horizontal
3	2483.51	75.79	-10.61	65.18	74.00	8.82	PK	155	332	Horizontal
4	2484.83	73.64	-10.61	63.03	74.00	10.97	PK	155	332	Horizontal

Final Data List

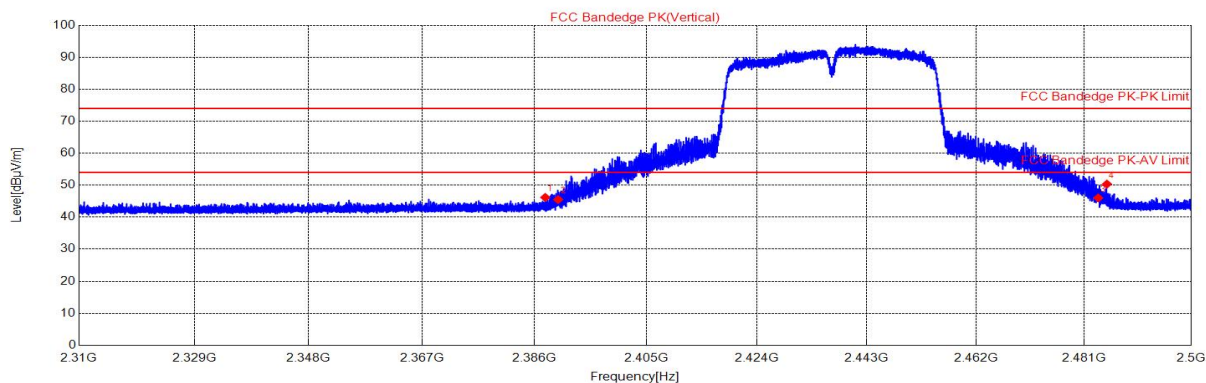
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2388.19	54.39	-10.32	44.07	74.00	29.93	PK	153.4	328.5	Horizontal
4	2484.92	56.55	-10.61	45.94	74.00	28.06	PK	151.3	329	Horizontal

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n40_2437_Ant1/ Vertical



Suspected List

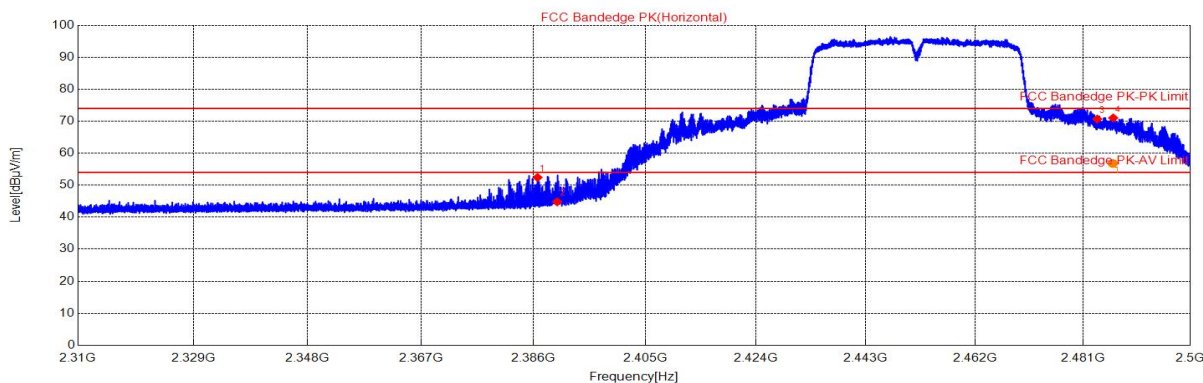
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2387.81	56.51	-10.32	46.19	74.00	27.81	PK	155	261	Vertical
2	2390.01	55.84	-10.32	45.52	74.00	28.48	PK	155	261	Vertical
3	2483.51	56.65	-10.61	46.04	74.00	27.96	PK	155	261	Vertical
4	2485.04	60.97	-10.61	50.36	74.00	23.64	PK	155	255	Vertical

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n40_2452_Ant1/ Horizontal



● PK Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2386.68	62.76	-10.33	52.43	74.00	21.57	PK	155	324	Horizontal
2	2390.01	55.11	-10.32	44.79	74.00	29.21	PK	155	193	Horizontal
3	2483.51	81.31	-10.61	70.70	74.00	3.30	PK	155	186	Horizontal
4	2486.33	81.66	-10.62	71.04	74.00	2.96	PK	155	330	Horizontal

Final Data List

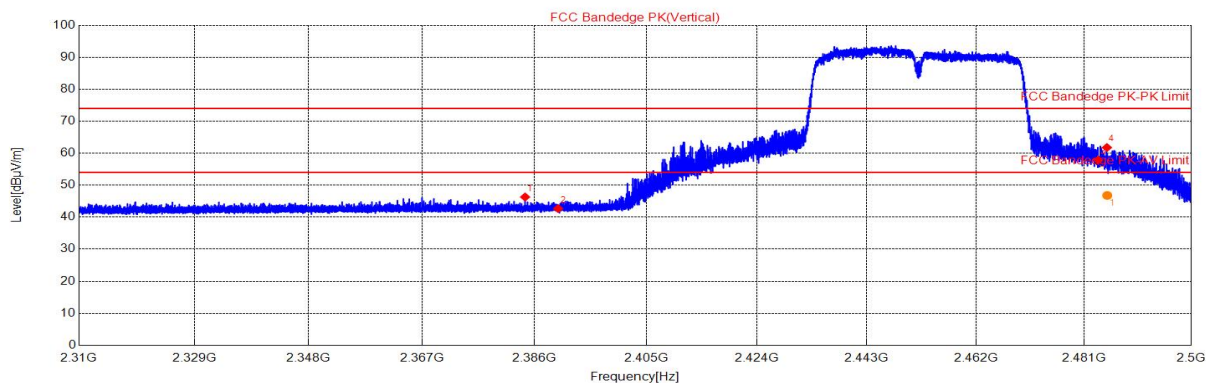
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
4	2486.25	67.43	-10.62	56.81	74.00	17.19	PK	134.6	330	Horizontal

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.

TEST REPORT N°: CRWJ-ESH-P25120941B-3

802.11n40_2452_Ant1/ Vertical



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2384.40	56.65	-10.33	46.32	74.00	27.68	PK	155	263	Vertical
2	2390.01	53.02	-10.32	42.70	74.00	31.30	PK	155	23	Vertical
3	2483.51	68.44	-10.61	57.83	74.00	16.17	PK	155	263	Vertical
4	2485.05	72.40	-10.61	61.79	74.00	12.21	PK	155	256	Vertical

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
4	2485.09	57.42	-10.61	46.81	74.00	27.19	PK	158.4	254.6	Vertical

Remarks:

1. Margin = Limit - Final Value, Final Value = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain.
3. The Peak value is also below the average limit of 54 dBμV/m.



TEST REPORT N°: CRWJ-ESH-P25120941B-3

3.8 Radiated Emission Measurement

3.8.1 Limits

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

3.8.2 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degree to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotate table was turned from 0 degree to 360 degree to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.



TEST REPORT N°: CRWJ-ESH-P25120941B-3

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz & 360 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1/T for RMS Average (Duty cycle < 98 %) for Peak detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

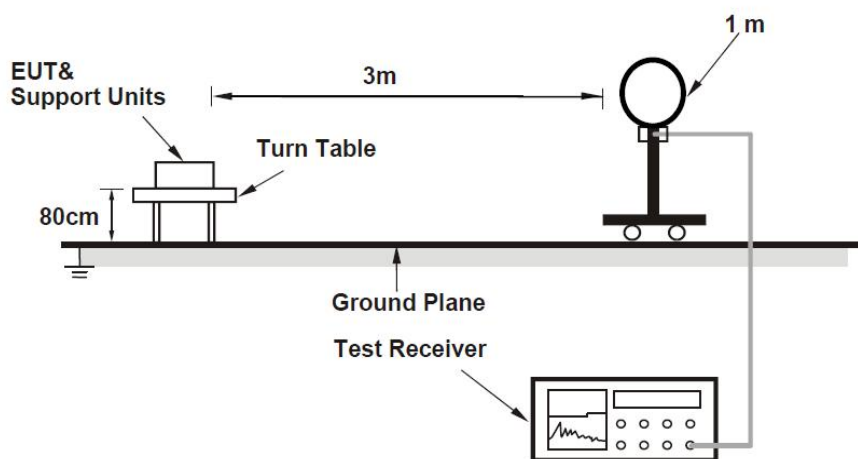
TEST REPORT N°: CRWJ-ESH-P25120941B-3

3.8.3 Deviation from Test Standard

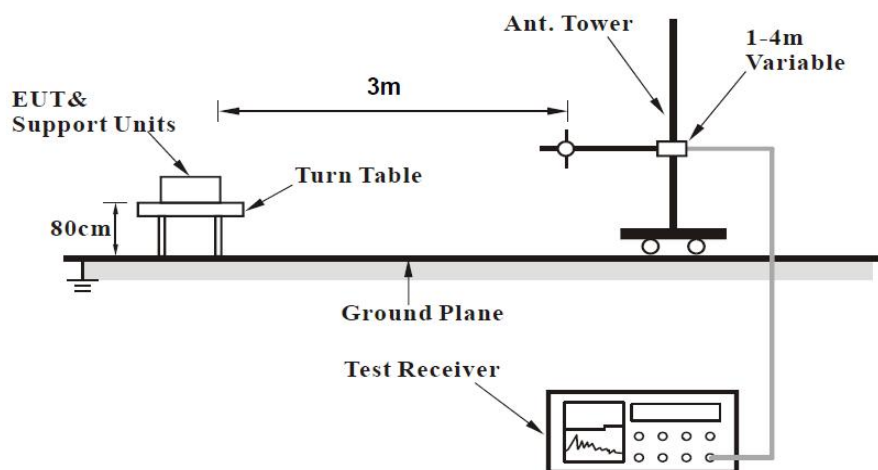
No deviation.

3.8.4 Test Setup

For Radiated emission below 30MHz

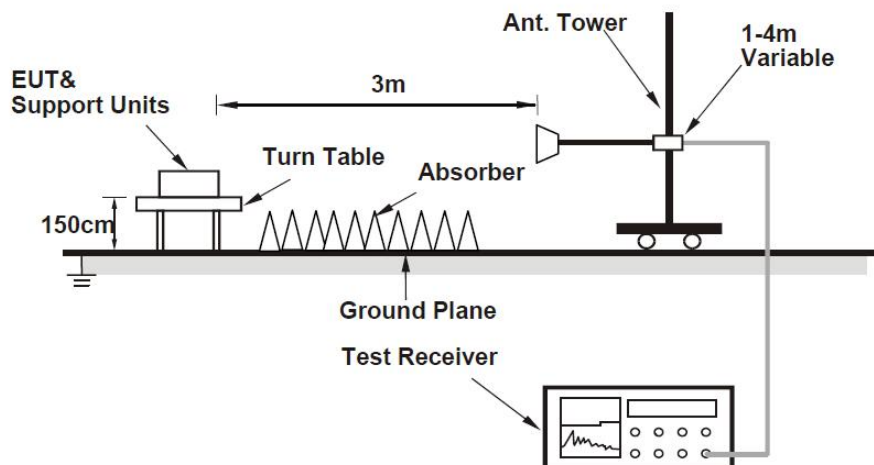


For Radiated emission 30MHz to 1GHz



TEST REPORT N°: CRWJ-ESH-P25120941B-3

For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.8.5 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.



TEST REPORT N°: CRWJ-ESH-P25120941B-3

3.8.6 Test Results

Radiated Emissions Range 9kHz~30MHz

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

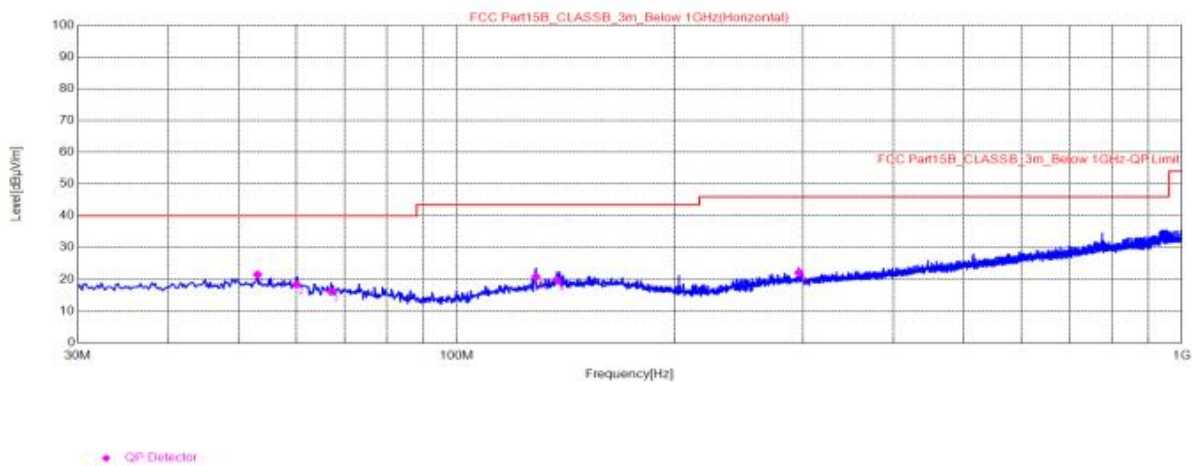
TEST REPORT N°: CRWJ-ESH-P25120941B-3

Radiated Emissions Range 30MHz~1GHz

Below is the worst test data

Channel	802.11b_2412_Ant1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Antenna Polarity	Horizontal

Test Plot:



Final Data List

NO.	Freq.[MHz]	Reading [dBuV]	Factor [dB]	Value [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
1	53.09	31.84	-10.34	21.50	40.00	18.50	QP	123	126	Horizontal
2	60.07	28.94	-10.63	18.31	40.00	21.69	QP	165	209	Horizontal
3	67.05	27.81	-11.60	16.21	40.00	23.79	QP	102	241	Horizontal
4	128.55	32.25	-11.42	20.83	43.50	22.67	QP	158	139	Horizontal
5	137.48	30.5	-10.79	19.71	43.50	23.79	QP	143	253	Horizontal
6	296.36	30.43	-8.38	22.05	46.00	23.95	QP	125	0	Horizontal

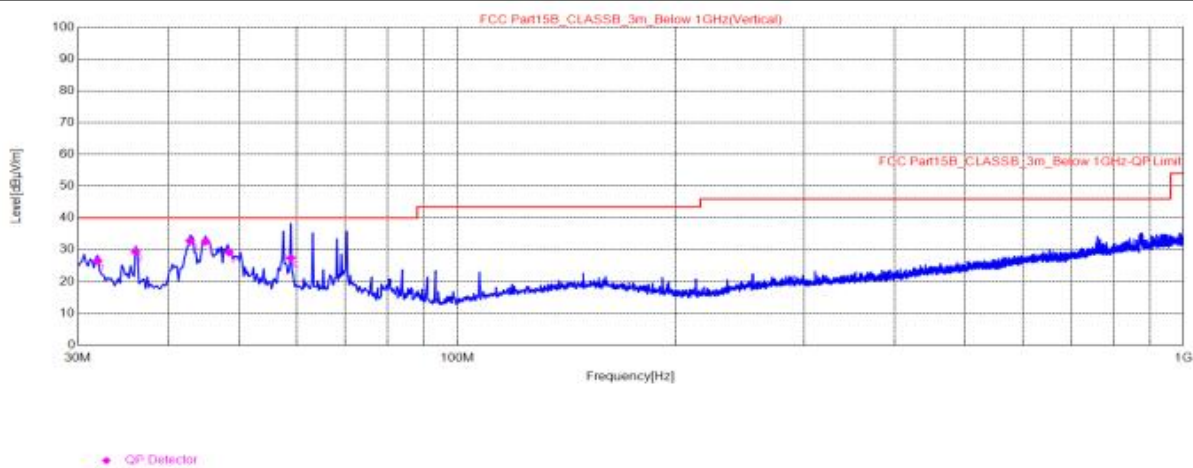
REMARKS:

- Emission Level(dBuV/m) = Spectrum reading (dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Limit value – Emission Level

TEST REPORT N°: CRWJ-ESH-P25120941B-3

Channel	802.11b_2412_Ant1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Antenna Polarity	Vertical

Test Plot:



Final Data List

NO.	Freq.[MHz]	Reading [dBuV]	Factor [dB]	Value [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
1	31.94	38.41	-11.91	26.50	40.00	13.50	QP	150	4	Vertical
2	36.01	40.87	-11.51	29.36	40.00	10.64	QP	160	116	Vertical
3	42.80	43.78	-10.98	32.80	40.00	7.20	QP	114	212	Vertical
4	44.94	43.34	-10.77	32.57	40.00	7.43	QP	120	68	Vertical
5	48.43	39.78	-10.51	29.27	40.00	10.73	QP	131	68	Vertical
6	58.91	37.96	-10.53	27.43	40.00	12.57	QP	150	116	Vertical

REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level

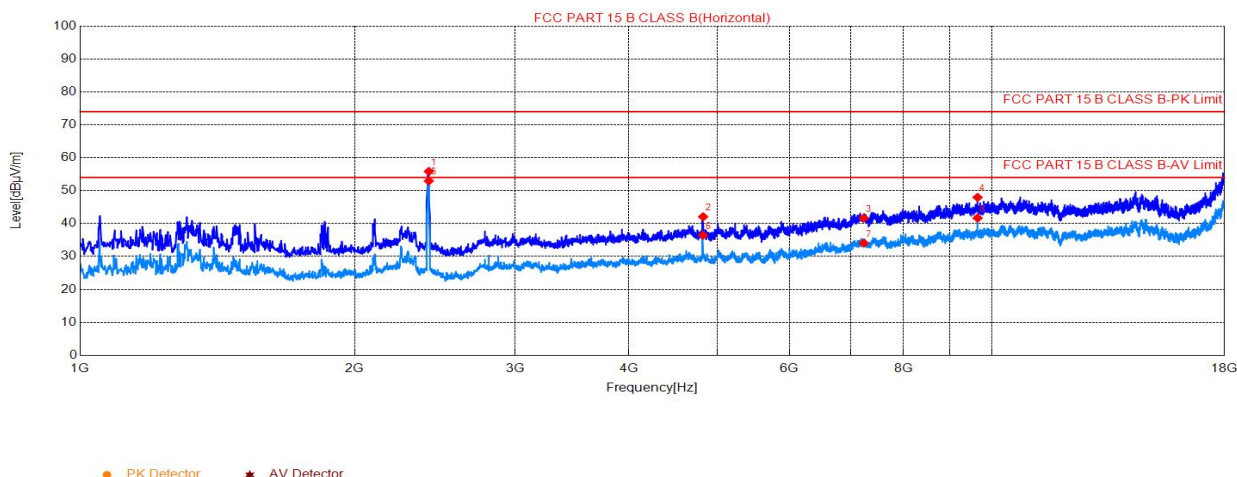


TEST REPORT N°: CRWJ-ESH-P25120941B-3

Radiated Emission Range 1GHz~10th Harmonic

Below is the worst test data

Channel	802.11b_2412_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



Suspected List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2412.70	66.19	-10.35	55.84	74.00	18.16	PK	100	282	Horizontal
2	4823.30	44.97	-2.89	42.08	74.00	31.92	PK	200	99	Horizontal
3	7237.30	37.83	3.84	41.67	74.00	32.33	PK	200	359	Horizontal
4	9647.90	38.60	9.37	47.97	74.00	26.03	PK	100	268	Horizontal
5	2412.70	63.30	-10.35	52.95	54.00	1.05	AV	100	282	Horizontal
6	4823.30	39.37	-2.89	36.48	54.00	17.52	AV	100	88	Horizontal
7	7237.30	30.23	3.84	34.07	54.00	19.93	AV	100	203	Horizontal
8	9647.90	32.31	9.37	41.68	54.00	12.32	AV	100	232	Horizontal

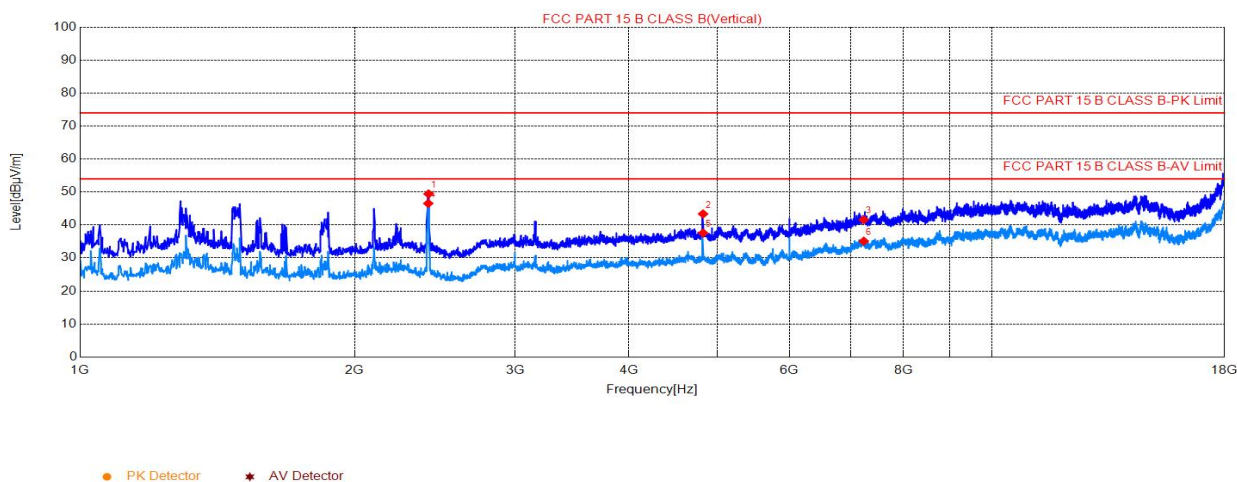
REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level



TEST REPORT N°: CRWJ-ESH-P25120941B-3

Channel	802.11b_2412_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



Suspected List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2411.00	59.79	-10.35	49.44	74.00	24.56	PK	100	305	Vertical
2	4823.30	46.26	-2.89	43.37	74.00	30.63	PK	100	163	Vertical
3	7237.30	37.78	3.84	41.62	74.00	32.38	PK	100	227	Vertical
4	2409.30	56.89	-10.35	46.54	54.00	7.46	AV	100	299	Vertical
5	4823.30	40.46	-2.89	37.57	54.00	16.43	AV	100	171	Vertical
6	7237.30	31.26	3.84	35.10	54.00	18.90	AV	200	95	Vertical

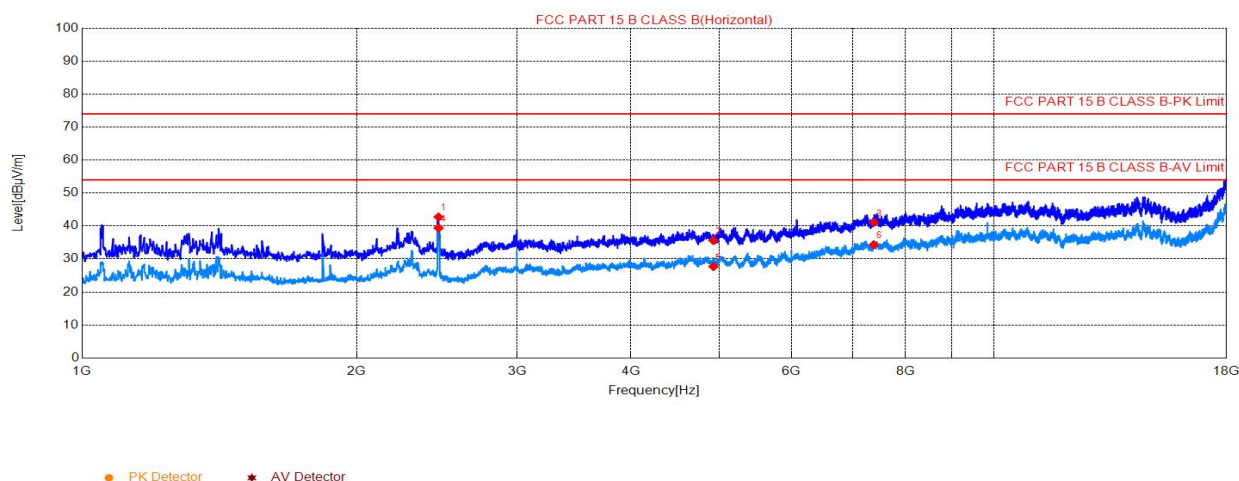
REMARKS:

- Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Limit value – Emission Level



TEST REPORT N°: CRWJ-ESH-P25120941B-3

Channel	802.11b_2462_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



Suspected List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2460.30	53.28	-10.53	42.75	74.00	31.25	PK	100	282	Horizontal
2	4925.30	38.26	-2.65	35.61	74.00	38.39	PK	200	42	Horizontal
3	7386.90	37.11	4.00	41.11	74.00	32.89	PK	200	13	Horizontal
4	2460.30	49.95	-10.53	39.42	54.00	14.58	AV	100	282	Horizontal
5	4925.30	30.36	-2.65	27.71	54.00	26.29	AV	200	279	Horizontal
6	7386.90	30.34	4.00	34.34	54.00	19.66	AV	100	93	Horizontal

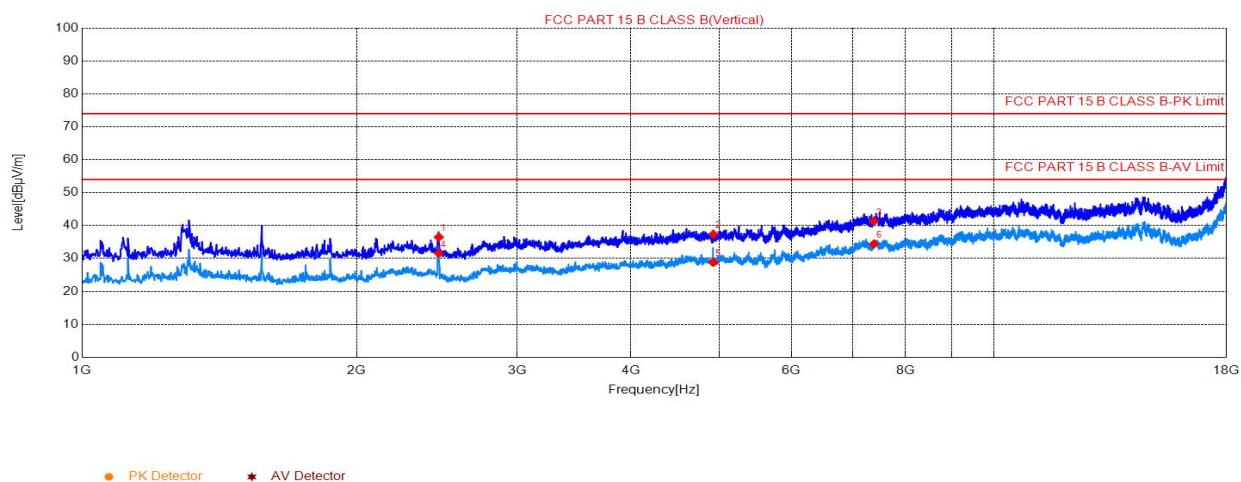
REMARKS:

- Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Limit value – Emission Level



TEST REPORT N°: CRWJ-ESH-P25120941B-3

Channel	802.11b_2462_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)



Suspected List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity
1	2462.00	47.01	-10.53	36.48	74.00	37.52	PK	100	279	Vertical
2	4925.30	39.99	-2.65	37.34	74.00	36.66	PK	100	250	Vertical
3	7386.90	37.35	4.00	41.35	74.00	32.65	PK	100	143	Vertical
4	2462.00	42.11	-10.53	31.58	54.00	22.42	AV	100	272	Vertical
5	4925.30	31.46	-2.65	28.81	54.00	25.19	AV	200	303	Vertical
6	7386.90	30.42	4.00	34.42	54.00	19.58	AV	100	56	Vertical

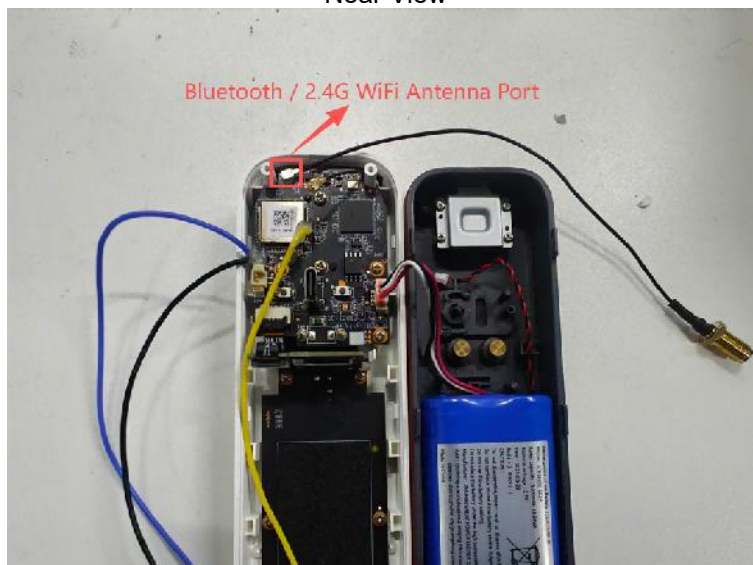
TEST REPORT N°: CRWJ-ESH-P25120941B-3

4 Pictures of Test Arrangements

Conducted Method Test

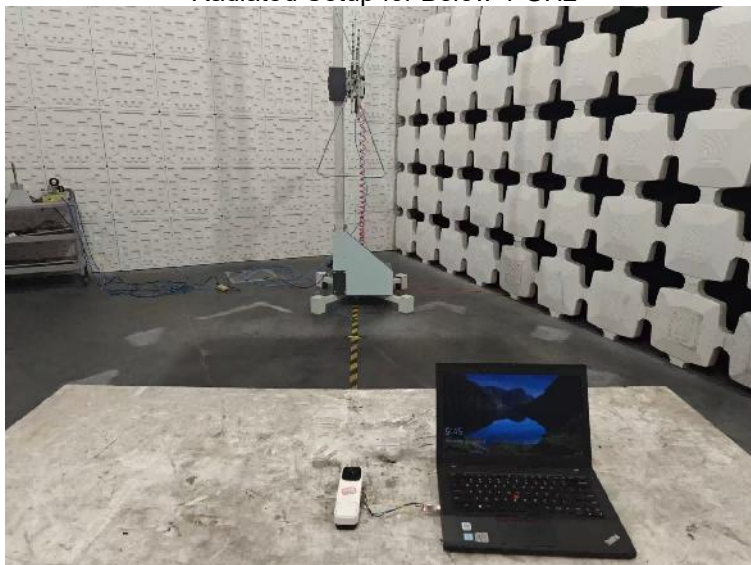


Near View

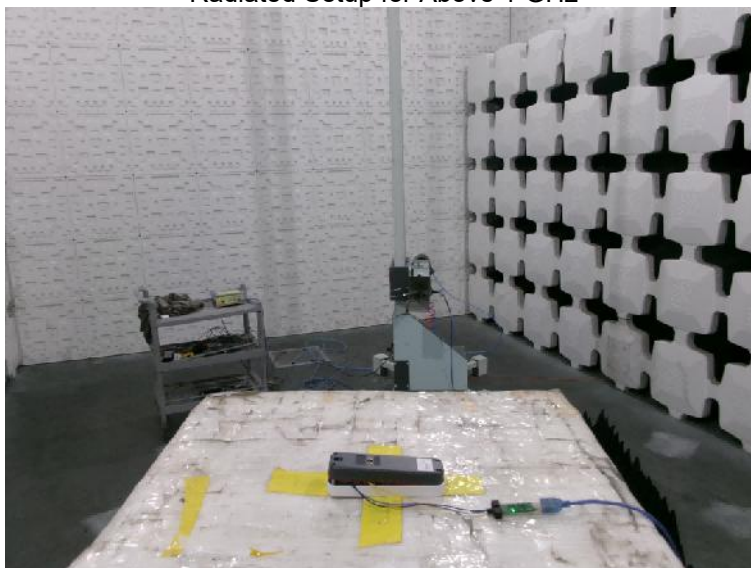


TEST REPORT N°: CRWJ-ESH-P25120941B-3

Radiated Setup for Below 1 GHz



Radiated Setup for Above 1 GHz



TEST REPORT N°: CRWJ-ESH-P25120941B-3

AC Power Line Conducted Emission



--- END ---