

Fig.102 Radiated emission: 11ax 80M, Ch122, 1GHz-6GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1146.280000	53.90	---	68.20	14.30	50.0	1000.000	200.0	H	159.0	-12.7
1698.030000	---	37.23	54.00	16.77	50.0	1000.000	200.0	H	204.0	-11.4
2490.500000	49.96	---	74.00	24.04	50.0	1000.000	200.0	H	79.0	-9.3
2493.035000	---	36.96	54.00	17.04	50.0	1000.000	200.0	H	72.0	-9.2
4355.772500	---	26.78	54.00	27.22	50.0	1000.000	200.0	H	79.0	-3.8
4438.405000	38.59	---	68.20	29.61	50.0	1000.000	200.0	H	152.0	-3.7
4977.235000	---	28.25	54.00	25.75	50.0	1000.000	200.0	H	144.0	-2.4
5129.312500	---	28.10	54.00	25.90	50.0	1000.000	200.0	H	72.0	-2.1
5229.775000	40.37	---	68.20	27.83	50.0	1000.000	200.0	H	94.0	-1.7
5453.175000	40.87	---	74.00	33.13	50.0	1000.000	200.0	H	189.0	-1.3
5456.347500	---	29.94	54.00	24.06	50.0	1000.000	200.0	H	174.0	-1.3
6000.000000	40.78	---	68.20	27.42	50.0	1000.000	200.0	H	14.0	-0.1

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
 Tel: 0086-23-88069965

FAX: 0086-23-88608777

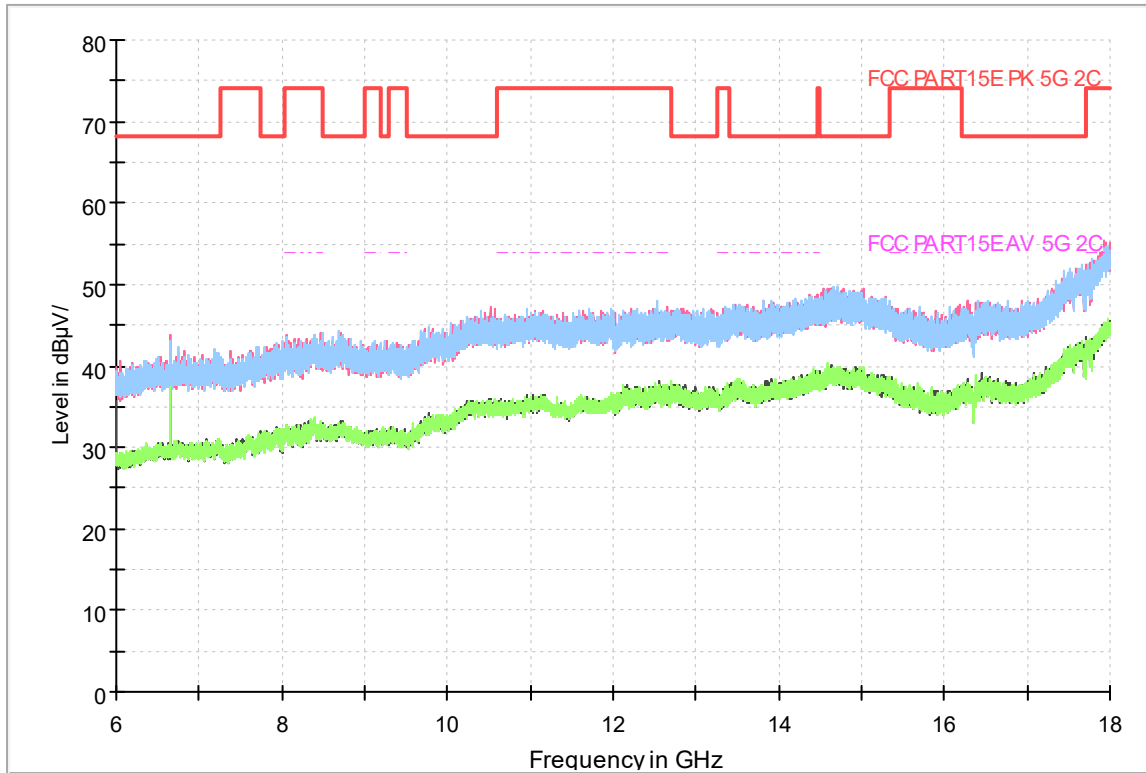


Fig.103 Radiated emission: 11ax 80M, Ch122, 6GHz-18GHz

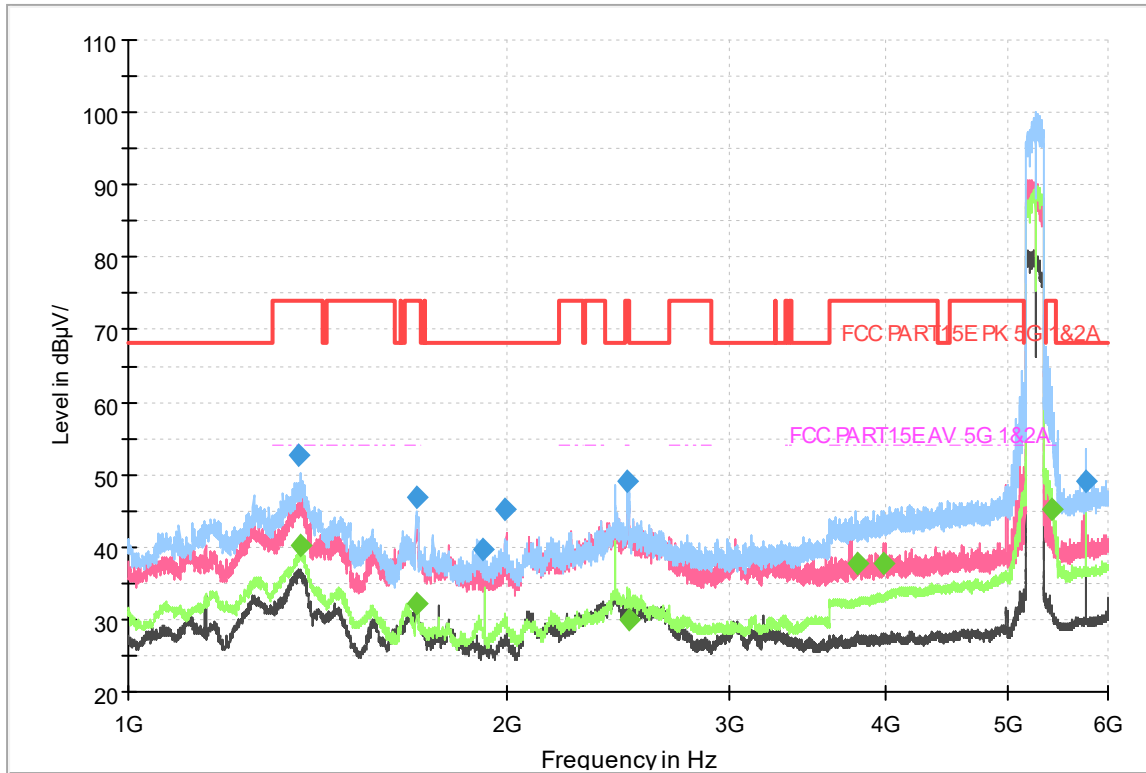


Fig.104 Radiated emission: 11ax 160M, Ch50, 1GHz-6GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1365.145000	52.54	---	74.00	21.46	50.0	1000.000	150.0	H	230.0	-12.2
1371.177500	---	40.30	54.00	13.70	50.0	1000.000	150.0	H	230.0	-12.1
1693.040000	46.89	---	74.00	27.11	50.0	1000.000	150.0	H	194.0	-11.5
1697.000000	---	32.22	54.00	21.78	50.0	1000.000	150.0	V	168.0	-11.2
1915.387500	39.56	---	68.20	28.64	50.0	1000.000	150.0	V	74.0	-10.9
1992.007500	45.17	---	68.20	23.03	50.0	1000.000	150.0	V	270.0	-10.8
2495.500000	---	29.86	54.00	24.14	50.0	1000.000	150.0	H	194.0	-9.4
2489.500000	49.18	---	74.00	24.82	50.0	1000.000	150.0	H	201.0	-9.3
3789.570000	---	37.67	54.00	16.33	50.0	1000.000	150.0	H	245.0	-5.2
3987.162500	---	37.76	54.00	16.24	50.0	1000.000	150.0	H	186.0	-4.6
5405.500000	---	45.09	54.00	8.91	50.0	1000.000	150.0	H	237.0	-1.3
5760.197500	49.12	---	68.20	19.08	50.0	1000.000	150.0	H	237.0	-0.8

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
 Tel: 0086-23-88069965

FAX: 0086-23-88608777

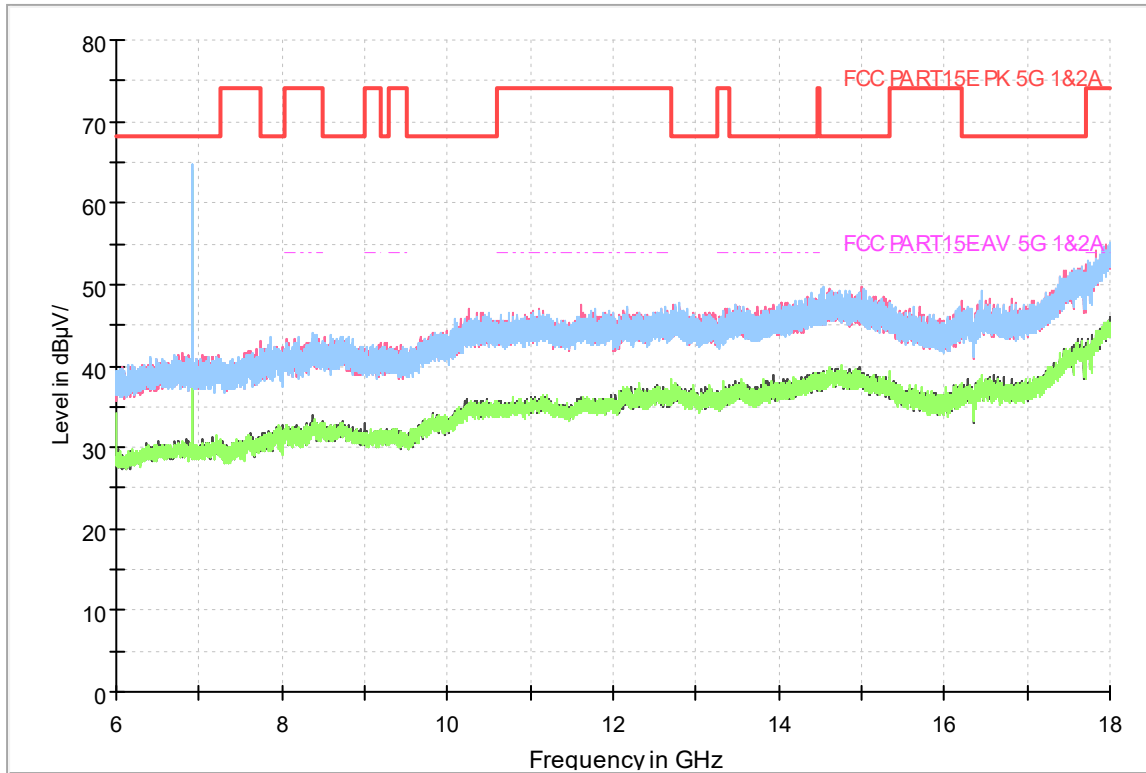


Fig.105 Radiated emission: 11ax 160M, Ch50, 6GHz-18GHz

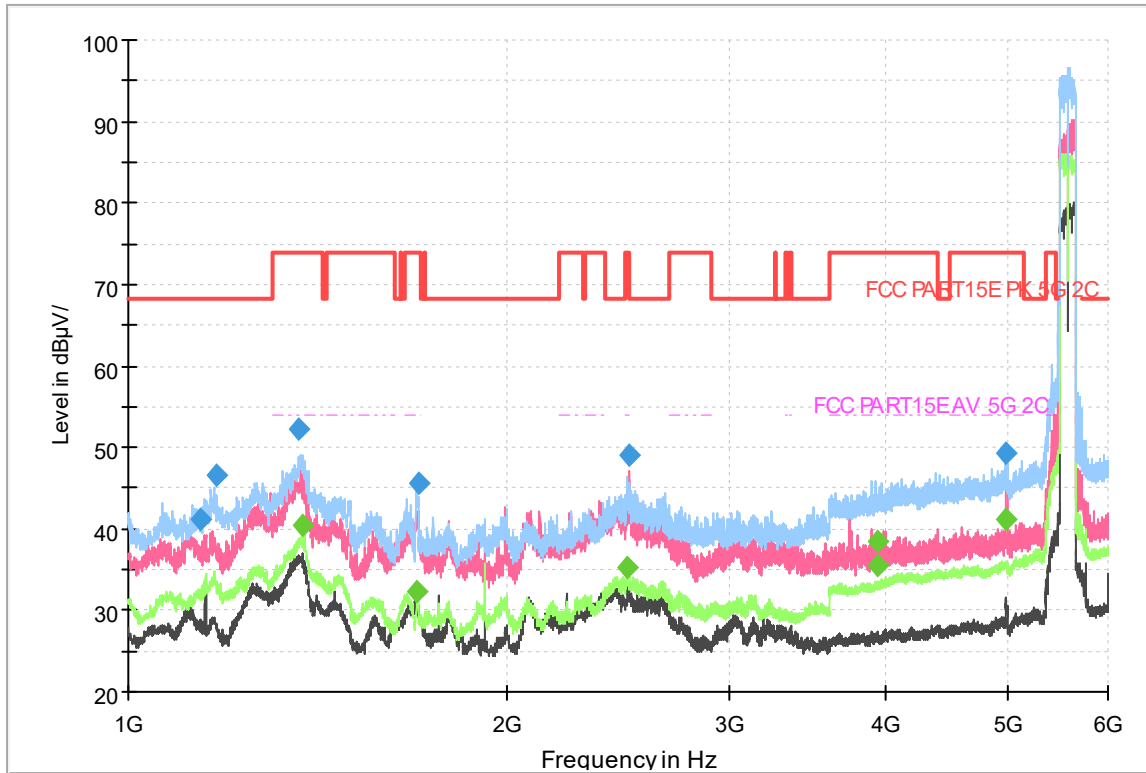


Fig.106 Radiated emission: 11ax 160M, Ch114, 1GHz-6GHz

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1140.270000	41.30	---	68.20	26.90	50.0	1000.000	150.0	V	4.0	-12.7
1173.155000	46.60	---	68.20	21.60	50.0	1000.000	150.0	H	157.0	-12.7
1366.647500	52.20	---	74.00	21.80	50.0	1000.000	150.0	H	233.0	-12.2
1373.660000	---	40.31	54.00	13.69	50.0	1000.000	150.0	H	233.0	-12.1
1698.020000	---	32.34	54.00	21.66	50.0	1000.000	150.0	H	202.0	-11.4
1700.040000	45.59	---	74.00	28.41	50.0	1000.000	150.0	H	202.0	-11.4
2493.002500	---	35.21	54.00	18.79	50.0	1000.000	150.0	H	0.0	-9.2
2499.497500	49.13	---	74.00	24.87	50.0	1000.000	150.0	V	56.0	-9.2
3931.377500	---	35.42	54.00	18.58	50.0	1000.000	150.0	H	143.0	-4.7
3942.860000	---	38.53	54.00	15.47	50.0	1000.000	150.0	H	58.0	-4.6
4979.607500	---	41.08	54.00	12.92	50.0	1000.000	150.0	H	172.0	-2.5
4982.205000	49.28	---	74.00	24.72	50.0	1000.000	150.0	V	219.0	-2.5

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
 Tel: 0086-23-88069965

FAX: 0086-23-88608777

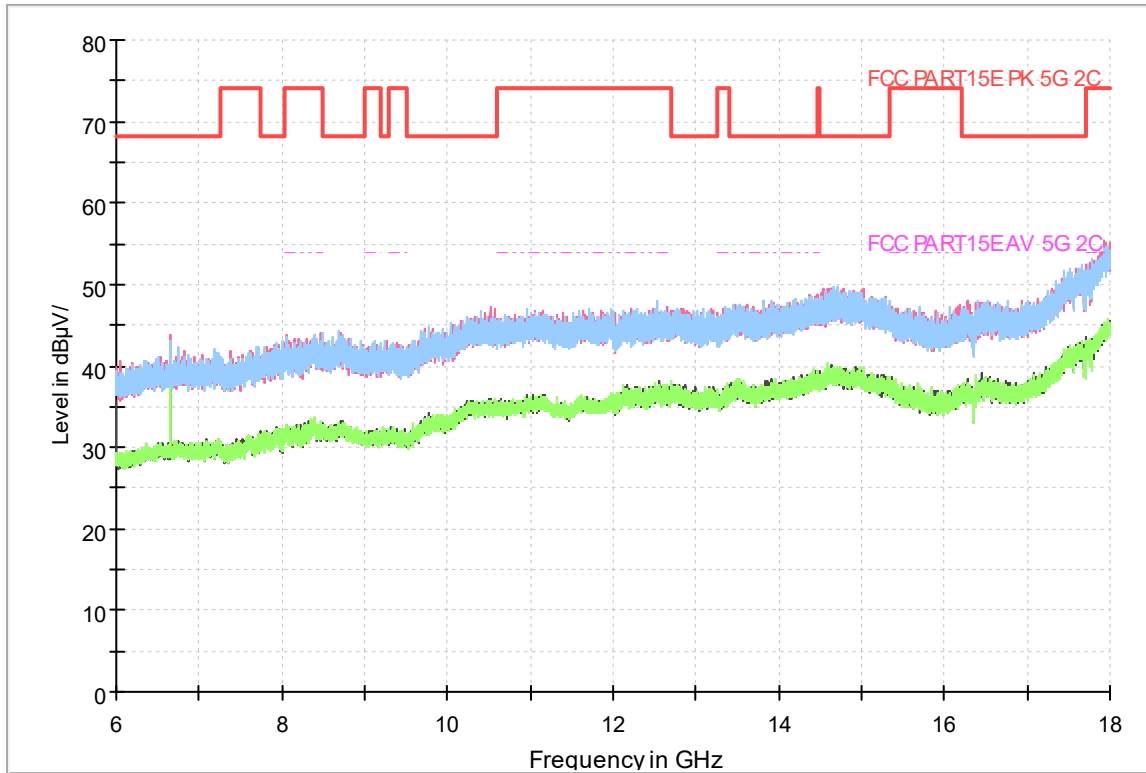


Fig.107 Radiated emission: 11ax 160M, Ch114, 6GHz-18GHz

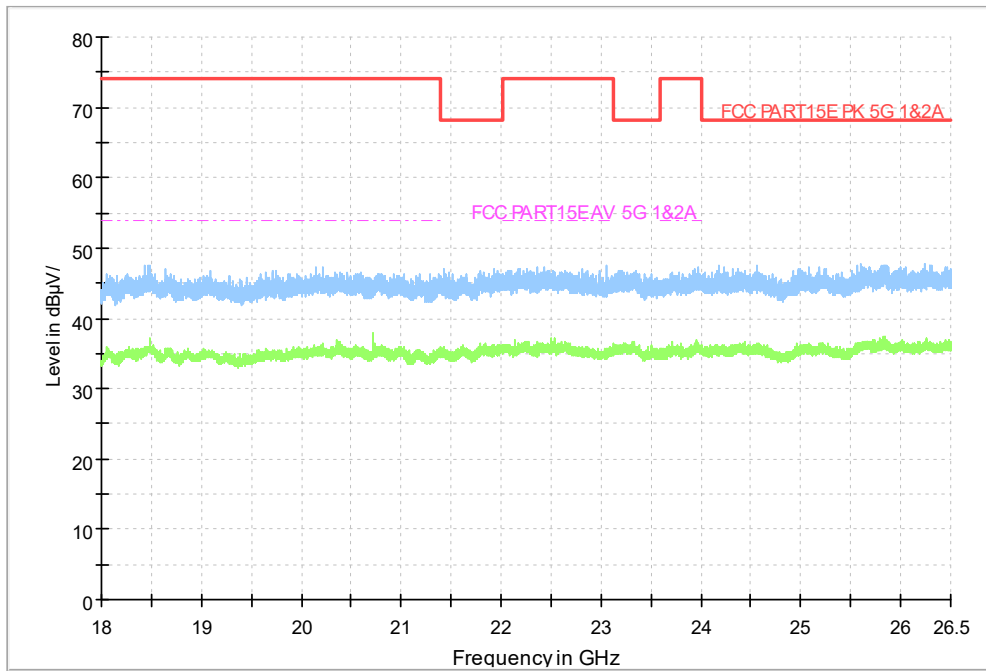


Fig.108 Radiated emission: 18GHz-26.5GHz

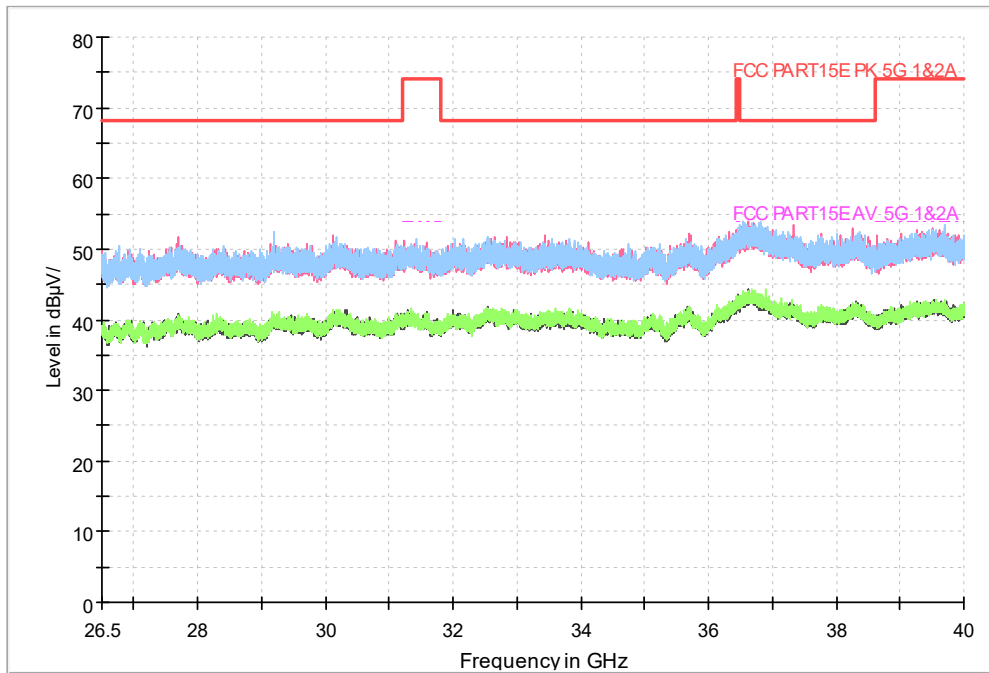


Fig.109 Radiated emission: 26.5GHz-40GHz

6.7. AC Powerline Conducted Emission (150kHz- 30MHz)

SpeciPications:	FCC Part 15. 407b(9)
DUT Serial Number:	S2
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass
Test time:	2022.04.08-2022.09.14

Limit

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at speciPic frequency range are listed as follows:

Measurement Uncertainty:

Frequency Range	Uncertainty
150 kHz to 30 MHz	1.83

Limits of the conducted disturbance at the AC mains ports:

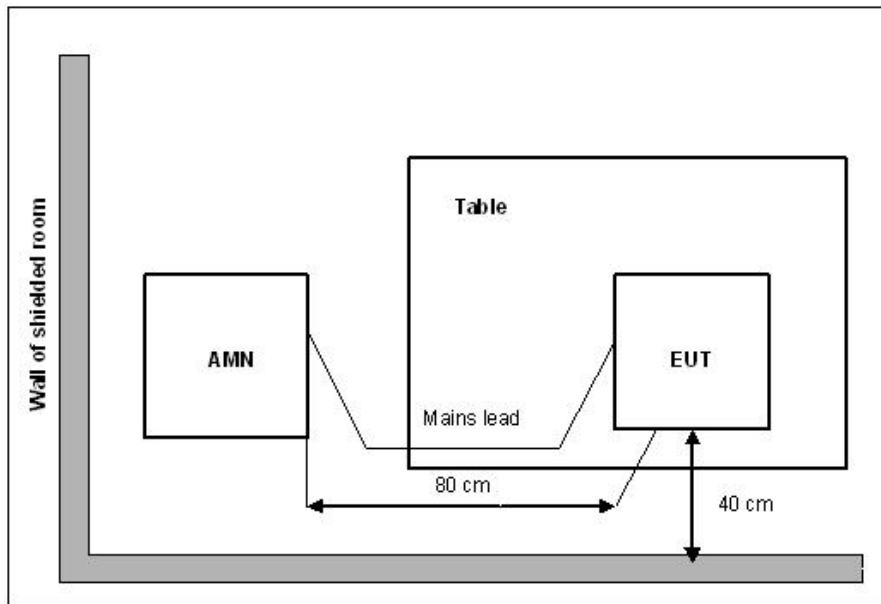
Frequency range	Limit(Quasi-peak)	Limit(Average)
0.15 MHz to 0.5 MHz	66 dB μ V – 56 dB μ V	56 dB μ V – 46 dB μ V
>0.5 MHz to 5MHz	56 dB μ V	46 dB μ V
>5 MHz to 30 MHz	60 dB μ V	50 dB μ V

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Setup

The EUT was placed in a shielding room. The ac adapter output is connected to Receiver through an AMN (ArtiPicial Mains Network). All mode are tested, only worst case 802.11a(5180MHz)-ant0 test data is presented for this report.



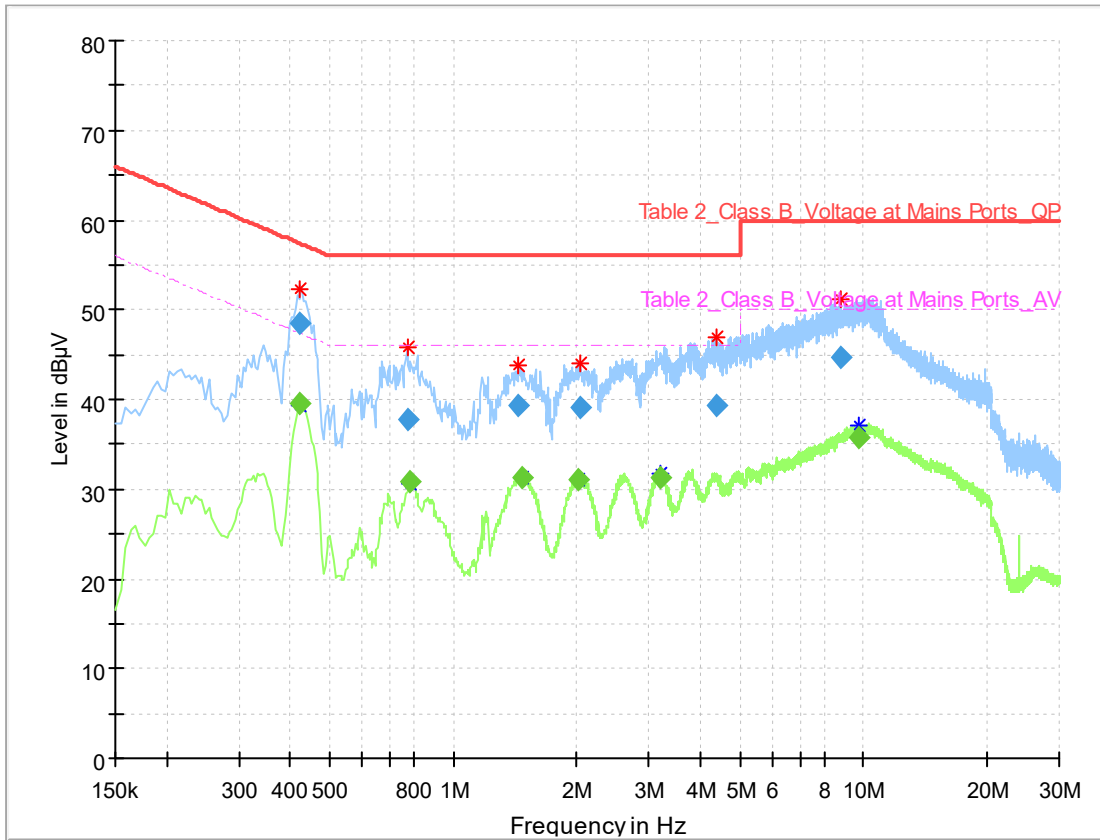
Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

The measurement is made according to ANSI C63.10-2013.

Conclusion: PASS

Test Result:



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.424500	48.50	---	57.36	8.86	1000.0	9.000	N	9.9
0.424500	---	39.50	47.36	7.86	1000.0	9.000	N	9.9
0.771000	37.78	---	56.00	18.22	1000.0	9.000	N	9.8
0.780000	---	30.87	46.00	15.13	1000.0	9.000	N	9.8
1.446000	39.27	---	56.00	16.73	1000.0	9.000	N	9.8
1.473000	---	31.22	46.00	14.78	1000.0	9.000	N	9.8
2.008500	---	31.03	46.00	14.97	1000.0	9.000	N	9.9
2.031000	39.20	---	56.00	16.80	1000.0	9.000	N	9.9
3.201000	---	31.29	46.00	14.71	1000.0	9.000	N	9.9
4.384500	39.42	---	56.00	16.58	1000.0	9.000	N	10.0
8.830500	44.72	---	60.00	15.28	1000.0	9.000	N	10.1
9.784500	---	35.70	50.00	14.30	1000.0	9.000	N	10.2

Line L& N

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
 Tel: 0086-23-88069965

FAX: 0086-23-88608777



Report No.: I22W00019-WiFi RF-5.1GHz-Rev4

Annex A EUT Photos

See the document "I22W00019-External Photos".

See the document "I22W00019-Internal Photos".

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



Report No.: I22W00019-WiFi RF-5.1GHz-Rev4

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

END OF REPORT

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777