

Fig.26 Radiated emission: 11ax 20M, Ch1, 1GHz-3GHz

### 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)
1075.149000	50.36	---	74.00	23.64	50.0	1000.000	200.0	H	64.0	-13.4
1075.217000	---	38.52	54.00	15.48	50.0	1000.000	200.0	H	64.0	-13.4
1377.640000	---	39.45	54.00	14.55	50.0	1000.000	200.0	H	71.0	-12.8
1378.595000	51.20	---	74.00	22.80	50.0	1000.000	200.0	H	71.0	-12.9
1476.946000	52.71	---	74.00	21.29	50.0	1000.000	200.0	H	11.0	-13.1
1485.274000	---	39.01	54.00	14.99	50.0	1000.000	200.0	H	19.0	-13.1
1699.637000	48.74	---	74.00	25.26	50.0	1000.000	200.0	H	103.0	-12.2
1766.568000	---	37.03	54.00	16.97	50.0	1000.000	200.0	H	52.0	-11.9
1919.900000	---	35.54	54.00	18.46	50.0	1000.000	200.0	V	145.0	-11.7
2106.465000	45.44	---	74.00	28.56	50.0	1000.000	200.0	H	19.0	-11.1
2516.746000	49.15	---	74.00	24.85	50.0	1000.000	200.0	H	11.0	-9.3
2534.626000	---	36.53	54.00	17.47	50.0	1000.000	200.0	H	19.0	-9.2

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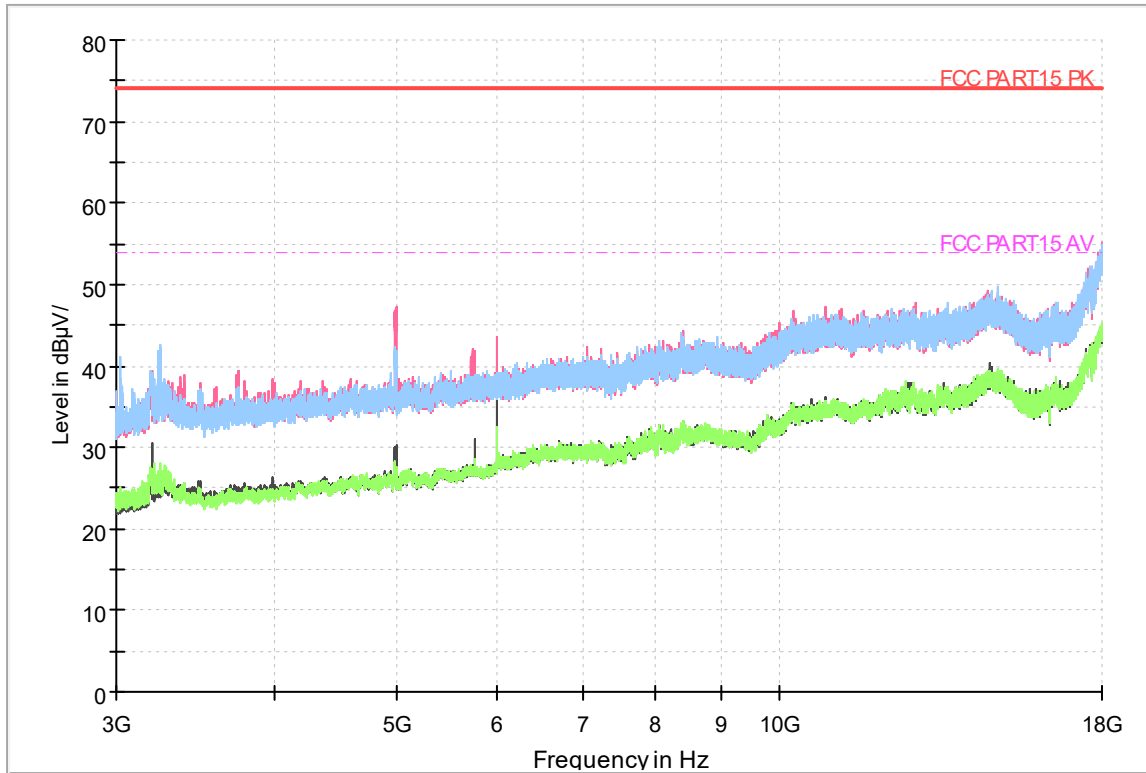


Fig.27 Radiated emission: 11ax 20M, Ch1, 3GHz-18GHz

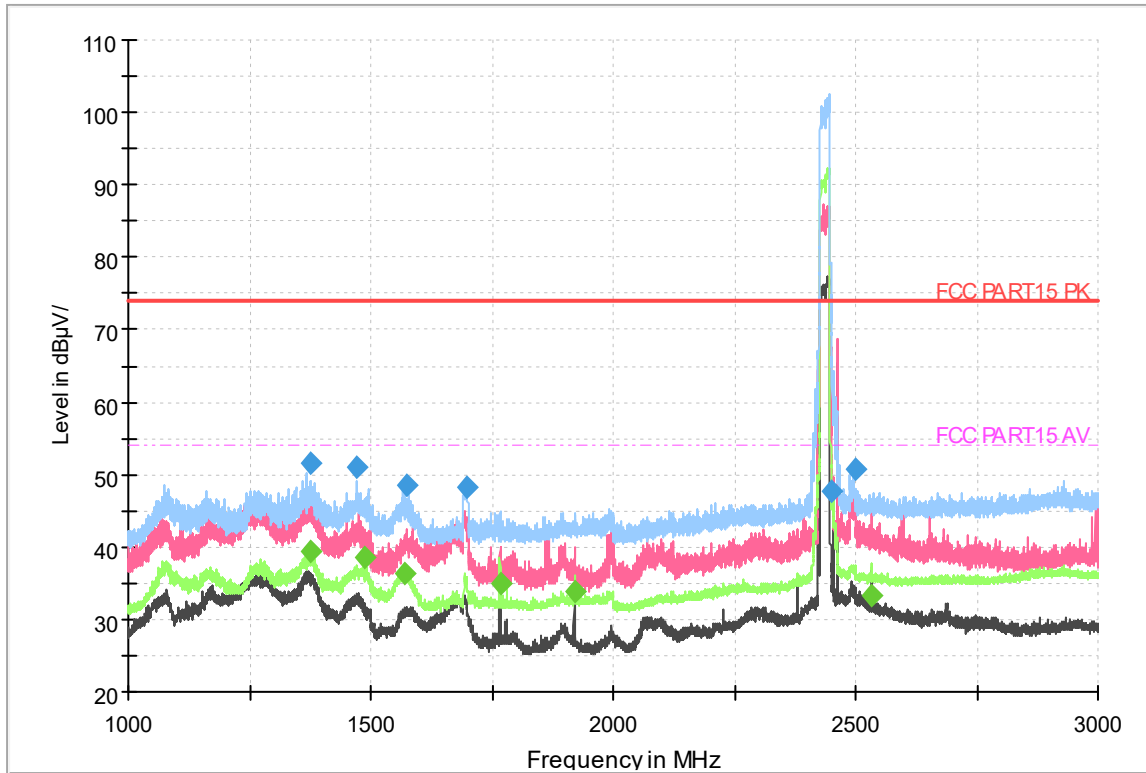


Fig.28 Radiated emission: 11ax 20M, Ch6, 1GHz-3GHz

### 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)
1376.053000	51.44	---	74.00	22.56	50.0	1000.000	200.0	H	70.0	-12.8
1376.921000	---	39.50	54.00	14.50	50.0	1000.000	200.0	H	70.0	-12.8
1471.441000	50.99	---	74.00	23.01	50.0	1000.000	200.0	H	28.0	-13.1
1486.065000	---	38.58	54.00	15.42	50.0	1000.000	200.0	H	28.0	-13.1
1571.028000	---	36.26	54.00	17.74	50.0	1000.000	200.0	H	270.0	-12.6
1574.364000	48.54	---	74.00	25.46	50.0	1000.000	200.0	H	270.0	-12.6
1698.224000	48.21	---	74.00	25.79	50.0	1000.000	200.0	H	96.0	-12.2
1766.568000	---	34.94	54.00	19.06	50.0	1000.000	200.0	H	128.0	-11.9
1919.900000	---	33.98	54.00	20.02	50.0	1000.000	200.0	H	267.0	-11.7
2452.277000	47.72	---	74.00	26.28	50.0	1000.000	200.0	V	196.0	-9.6
2498.515000	50.67	---	74.00	23.33	50.0	1000.000	200.0	H	242.0	-9.4
2534.529000	---	33.38	54.00	20.62	50.0	1000.000	200.0	H	58.0	-9.2

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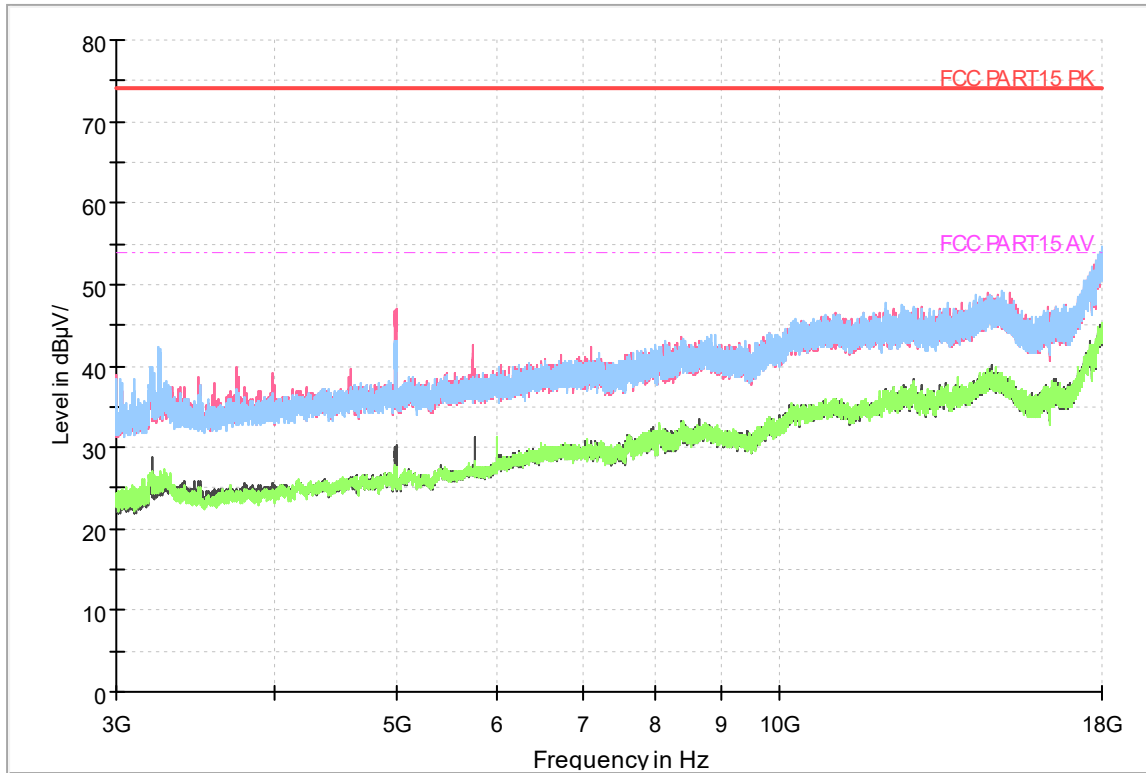


Fig.29 Radiated emission: 11ax 20M, Ch6, 3GHz-18GHz

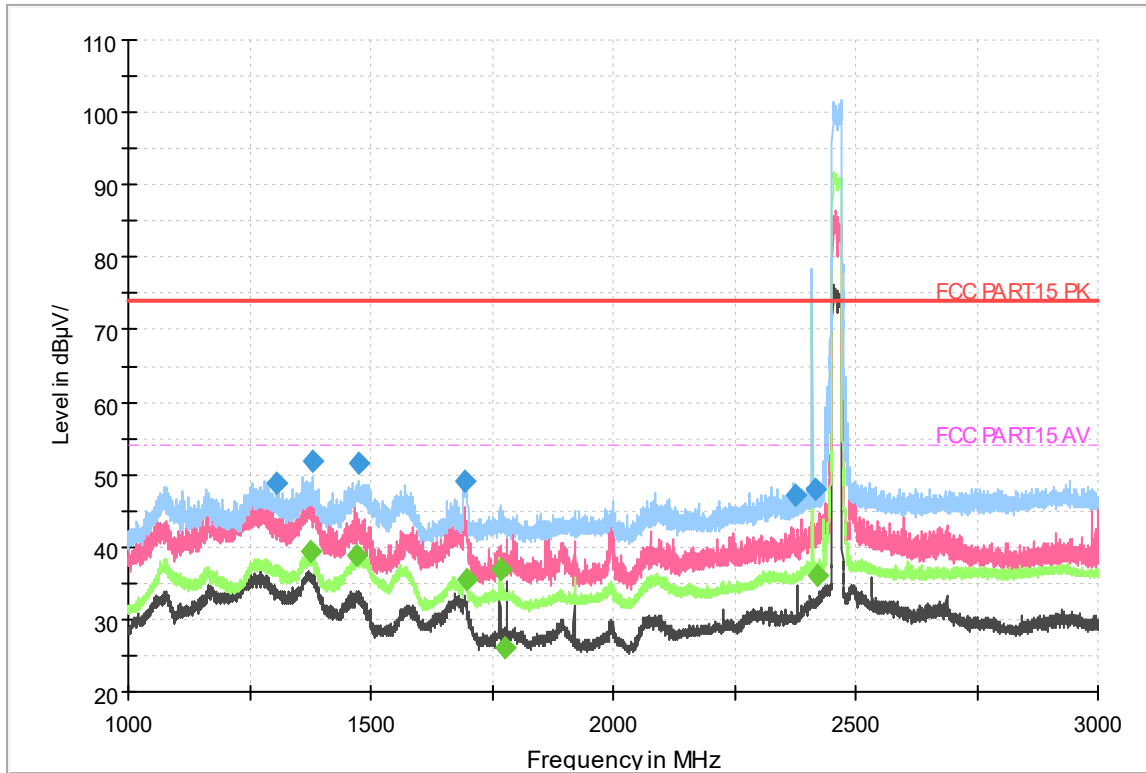


Fig.30 Radiated emission: 11ax 20M, Ch11, 1GHz-3GHz

### 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)
1305.358000	48.75	---	74.00	25.25	50.0	1000.000	200.0	H	59.0	-12.9
1378.018000	---	39.25	54.00	14.75	50.0	1000.000	200.0	H	73.0	-12.9
1379.304000	51.98	---	74.00	22.02	50.0	1000.000	200.0	H	73.0	-12.9
1472.906000	---	38.97	54.00	15.03	50.0	1000.000	200.0	H	20.0	-13.1
1473.722000	51.47	---	74.00	22.53	50.0	1000.000	200.0	H	20.0	-13.1
1695.239000	49.02	---	74.00	24.98	50.0	1000.000	200.0	H	99.0	-12.2
1696.923000	---	35.43	54.00	18.57	50.0	1000.000	200.0	H	105.0	-12.2
1766.568000	---	37.00	54.00	17.00	50.0	1000.000	200.0	H	52.0	-11.9
1776.998000	---	25.99	54.00	28.01	50.0	1000.000	200.0	V	118.0	-11.9
2377.543000	47.08	---	74.00	26.92	50.0	1000.000	200.0	H	7.0	-9.9
2416.445000	48.07	---	74.00	25.93	50.0	1000.000	200.0	H	7.0	-9.8
2422.653000	---	36.12	54.00	17.88	50.0	1000.000	200.0	H	7.0	-9.8

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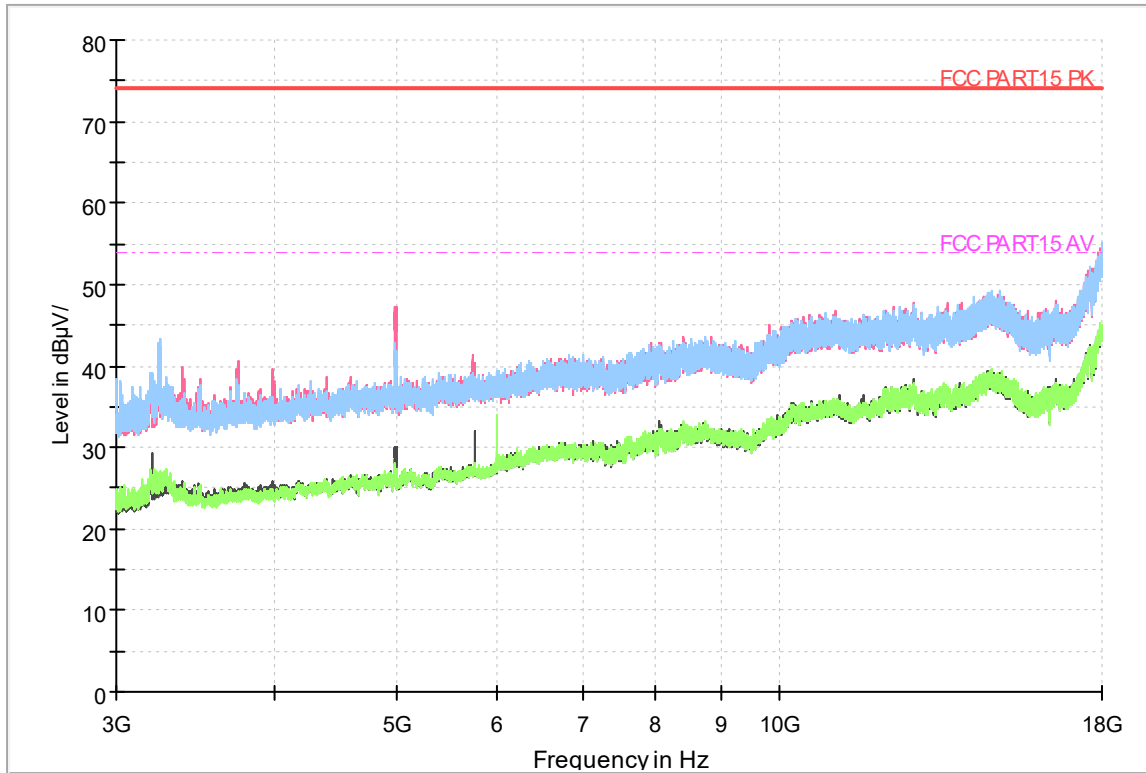


Fig.31 Radiated emission: 11ax 20M, Ch11, 3GHz-18GHz

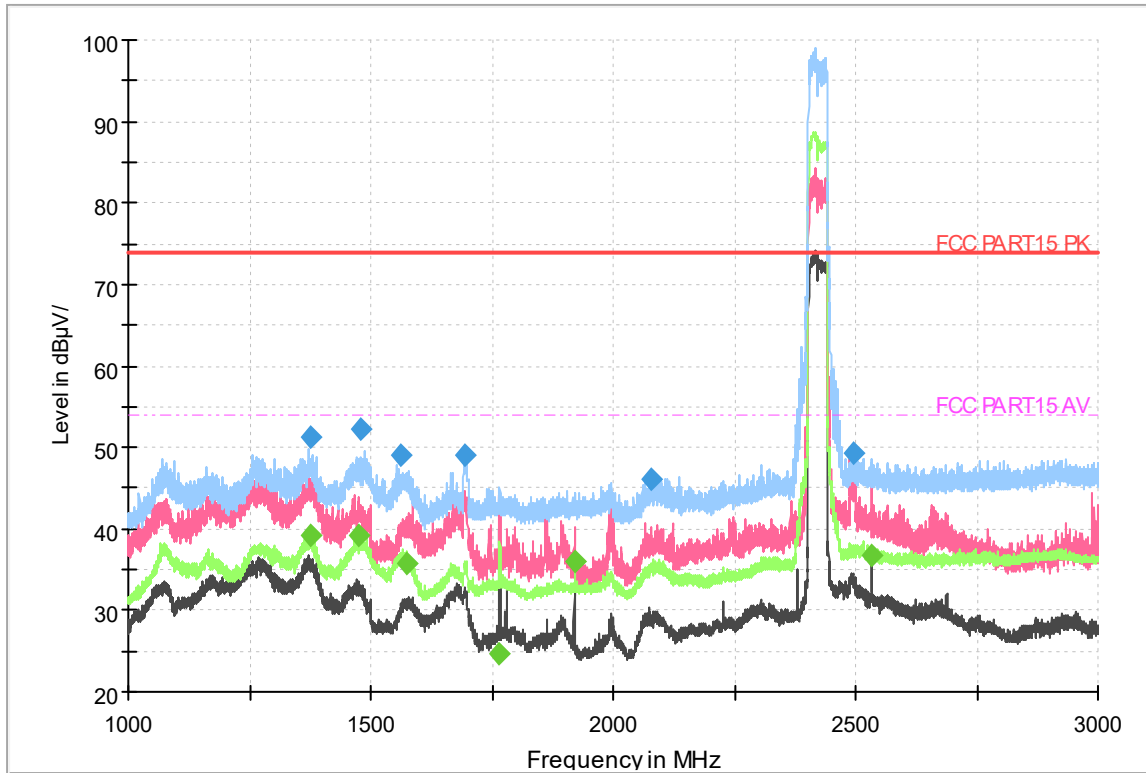


Fig.32 Radiated emission: 11ax 40M, Ch3, 1GHz-3GHz

### 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)
1374.956000	---	39.32	54.00	14.68	50.0	1000.000	200.0	H	72.0	-12.8
1376.645000	51.36	---	74.00	22.64	50.0	1000.000	200.0	H	72.0	-12.8
1473.202000	---	39.12	54.00	14.88	50.0	1000.000	200.0	H	18.0	-13.1
1478.013000	52.30	---	74.00	21.70	50.0	1000.000	200.0	H	12.0	-13.1
1561.332000	48.95	---	74.00	25.05	50.0	1000.000	200.0	H	31.0	-12.7
1573.026000	---	35.73	54.00	18.27	50.0	1000.000	200.0	H	18.0	-12.6
1692.229000	49.13	---	74.00	24.87	50.0	1000.000	200.0	H	103.0	-12.2
1766.369000	---	24.59	54.00	29.41	50.0	1000.000	200.0	V	129.0	-11.9
1919.900000	---	36.02	54.00	17.98	50.0	1000.000	200.0	V	148.0	-11.7
2078.702000	46.13	---	74.00	27.87	50.0	1000.000	200.0	H	18.0	-11.2
2497.520000	49.28	---	74.00	24.72	50.0	1000.000	200.0	H	12.0	-9.4
2534.529000	---	36.67	54.00	17.33	50.0	1000.000	200.0	H	18.0	-9.2

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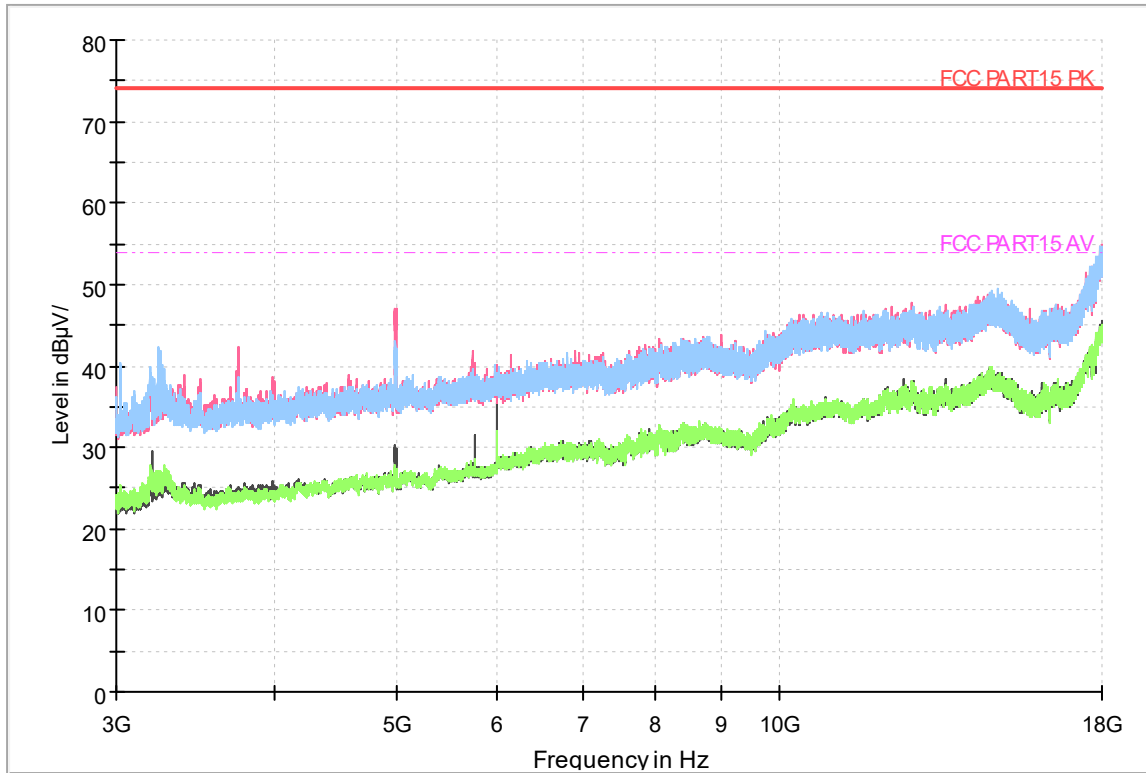


Fig.33 Radiated emission: 11ax 40M, Ch3, 3GHz-18GHz



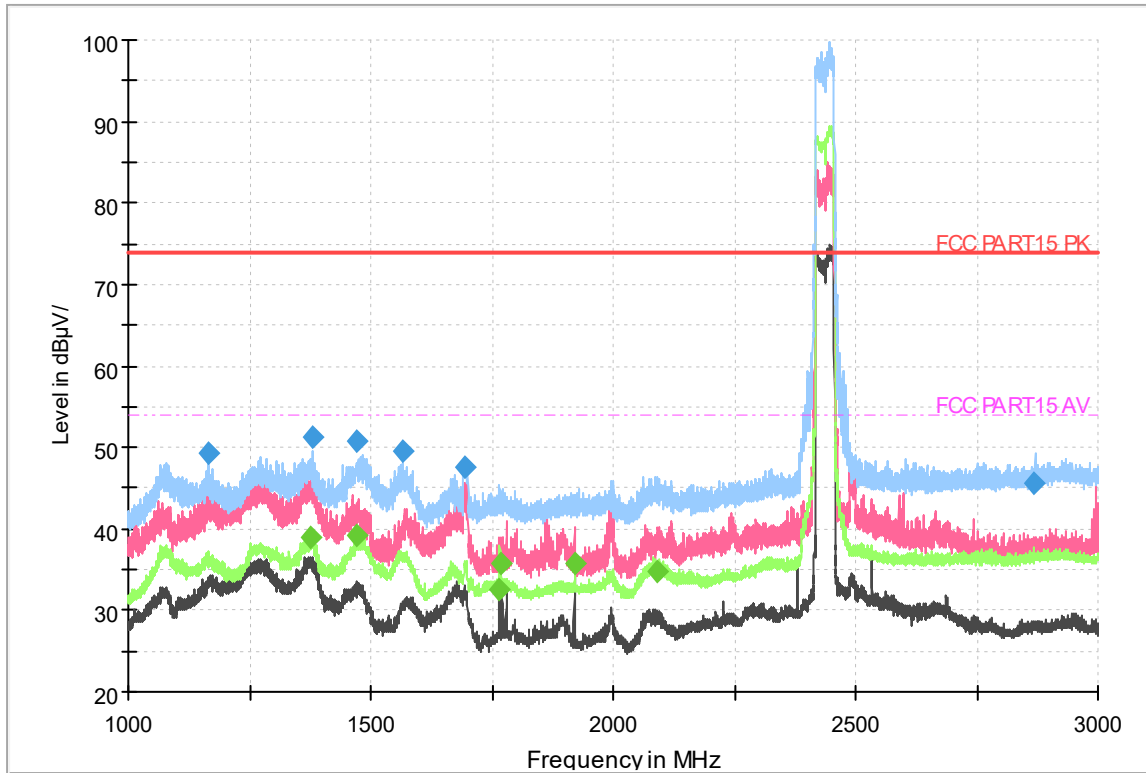


Fig.34 Radiated emission: 11ax 40M, Ch6, 1GHz-3GHz

### 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)
1167.175000	49.34	---	74.00	24.66	50.0	1000.000	200.0	H	74.0	-13.2
1377.600000	---	38.99	54.00	15.01	50.0	1000.000	200.0	H	74.0	-12.8
1379.794000	51.23	---	74.00	22.77	50.0	1000.000	200.0	H	74.0	-12.9
1472.401000	---	39.19	54.00	14.81	50.0	1000.000	200.0	H	16.0	-13.1
1472.834000	50.85	---	74.00	23.15	50.0	1000.000	200.0	H	23.0	-13.1
1568.170000	49.48	---	74.00	24.52	50.0	1000.000	200.0	H	42.0	-12.6
1692.438000	47.59	---	74.00	26.41	50.0	1000.000	200.0	H	36.0	-12.2
1766.349000	---	32.61	54.00	21.39	50.0	1000.000	200.0	H	188.0	-11.9
1766.568000	---	35.70	54.00	18.30	50.0	1000.000	200.0	H	16.0	-11.9
1919.900000	---	35.86	54.00	18.14	50.0	1000.000	200.0	V	147.0	-11.7
2092.085000	---	34.76	54.00	19.24	50.0	1000.000	200.0	H	16.0	-11.2
2866.650000	45.69	---	74.00	28.31	50.0	1000.000	200.0	H	16.0	-8.5

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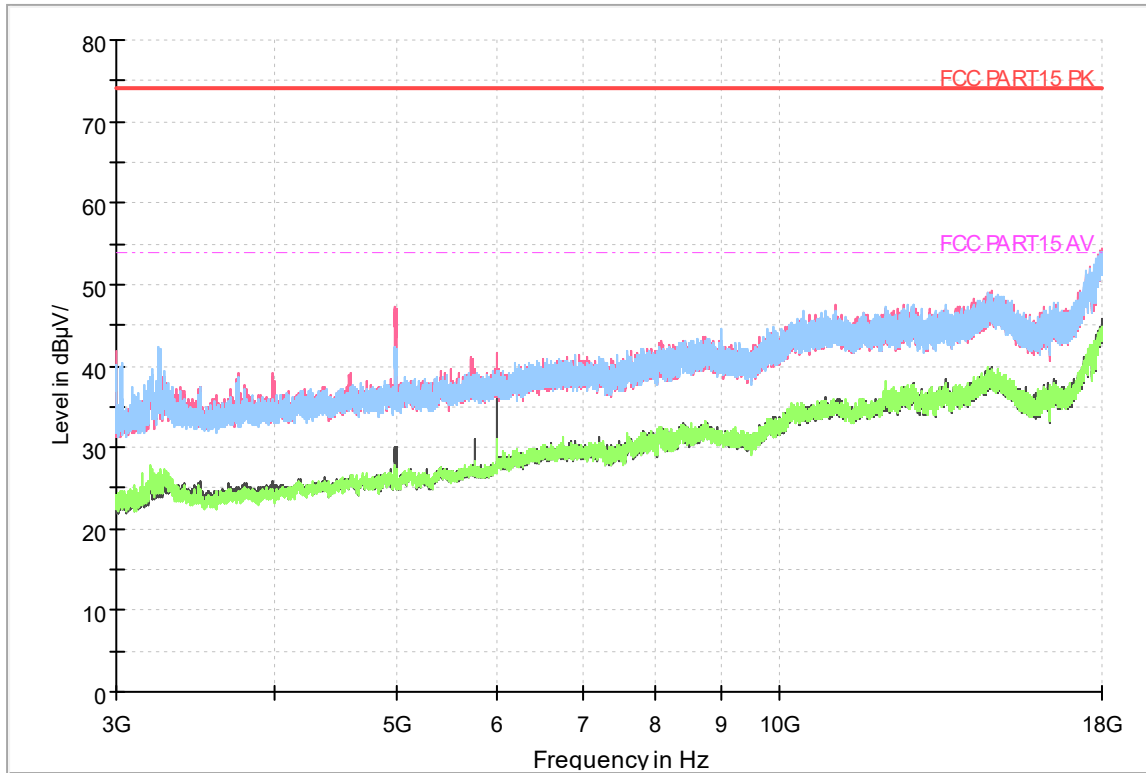


Fig.35 Radiated emission: 11ax 40M, Ch6, 3GHz-18GHz

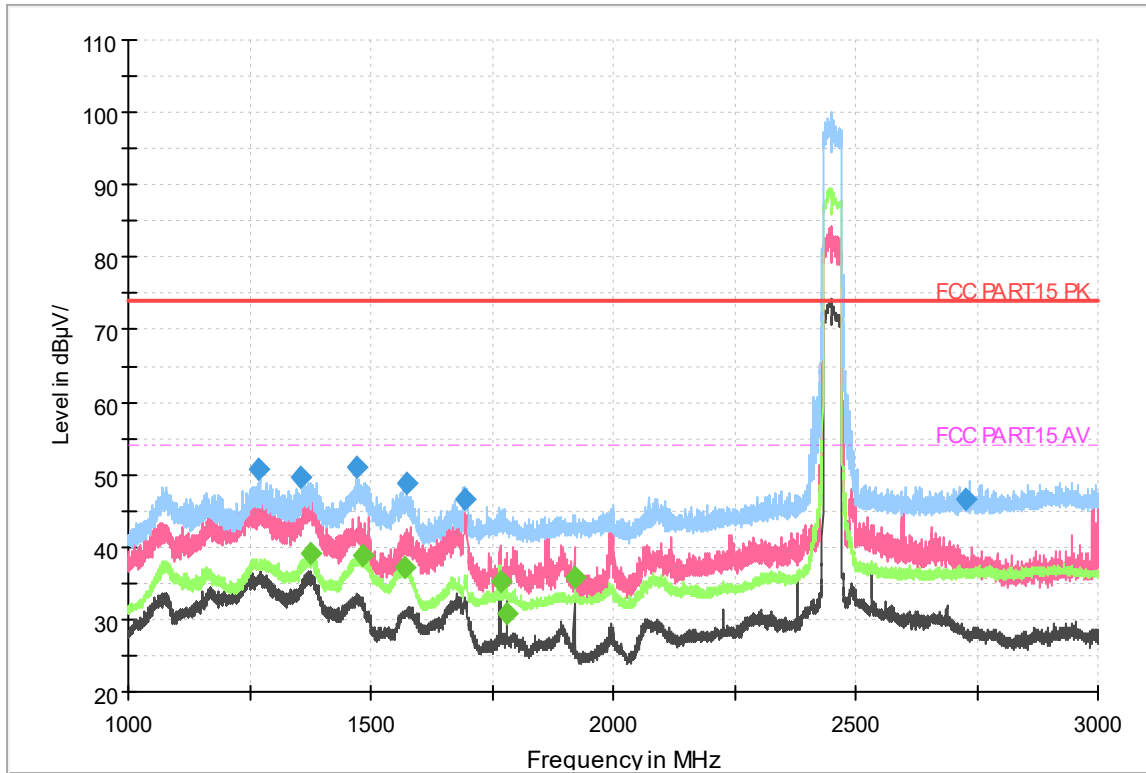


Fig.36 Radiated emission: 11ac 40M, Ch9, 1GHz-3GHz

## 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)
1267.446000	50.75	---	74.00	23.25	50.0	1000.000	200.0	H	20.0	-13.0
1355.302000	49.69	---	74.00	24.31	50.0	1000.000	200.0	H	65.0	-12.8
1376.794000	---	39.21	54.00	14.79	50.0	1000.000	200.0	H	72.0	-12.8
1472.854000	51.07	---	74.00	22.93	50.0	1000.000	200.0	H	33.0	-13.1
1482.871000	---	38.82	54.00	15.18	50.0	1000.000	200.0	H	20.0	-13.1
1568.359000	---	37.27	54.00	16.73	50.0	1000.000	200.0	H	40.0	-12.6
1573.319000	48.92	---	74.00	25.08	50.0	1000.000	200.0	H	7.0	-12.6
1693.040000	46.60	---	74.00	27.40	50.0	1000.000	200.0	H	40.0	-12.2
1766.568000	---	35.22	54.00	18.78	50.0	1000.000	200.0	H	27.0	-11.9
1781.794000	---	30.68	54.00	23.32	50.0	1000.000	200.0	H	40.0	-11.9
1919.900000	---	35.75	54.00	18.25	50.0	1000.000	200.0	V	198.0	-11.7
2725.621000	46.63	---	74.00	27.37	50.0	1000.000	200.0	H	13.0	-8.7

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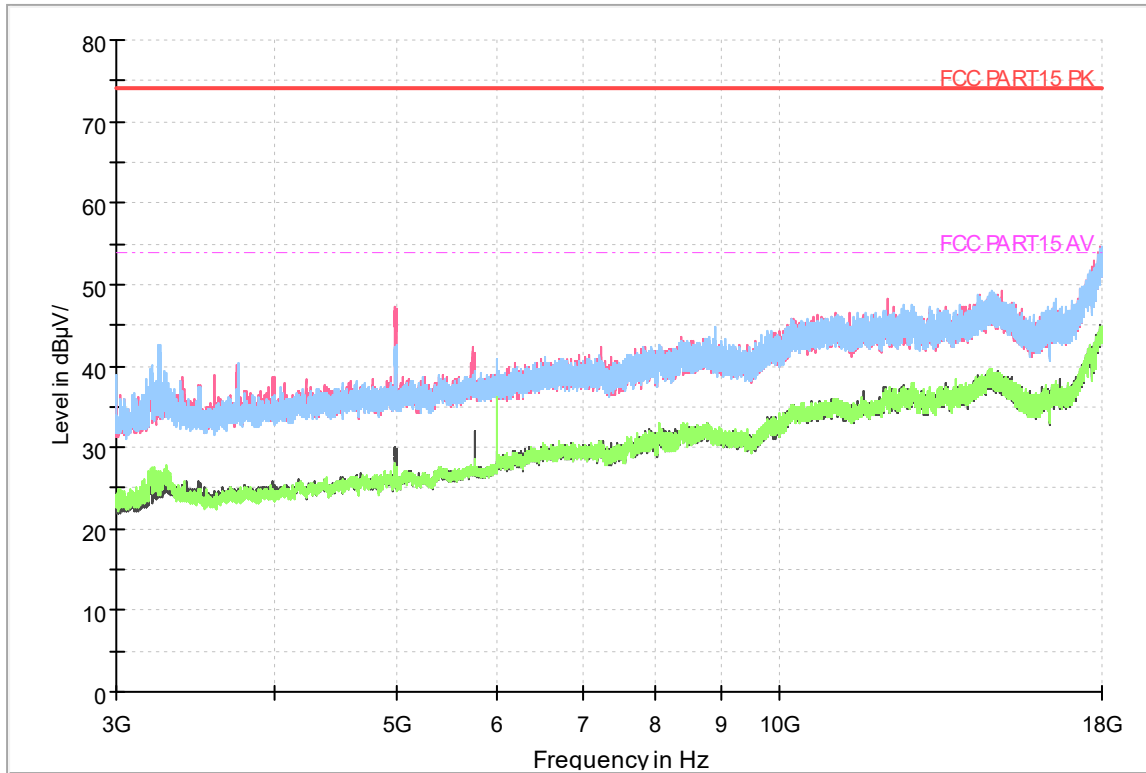


Fig.37 Radiated emission: 11ax 40M, Ch9, 3GHz-18GHz

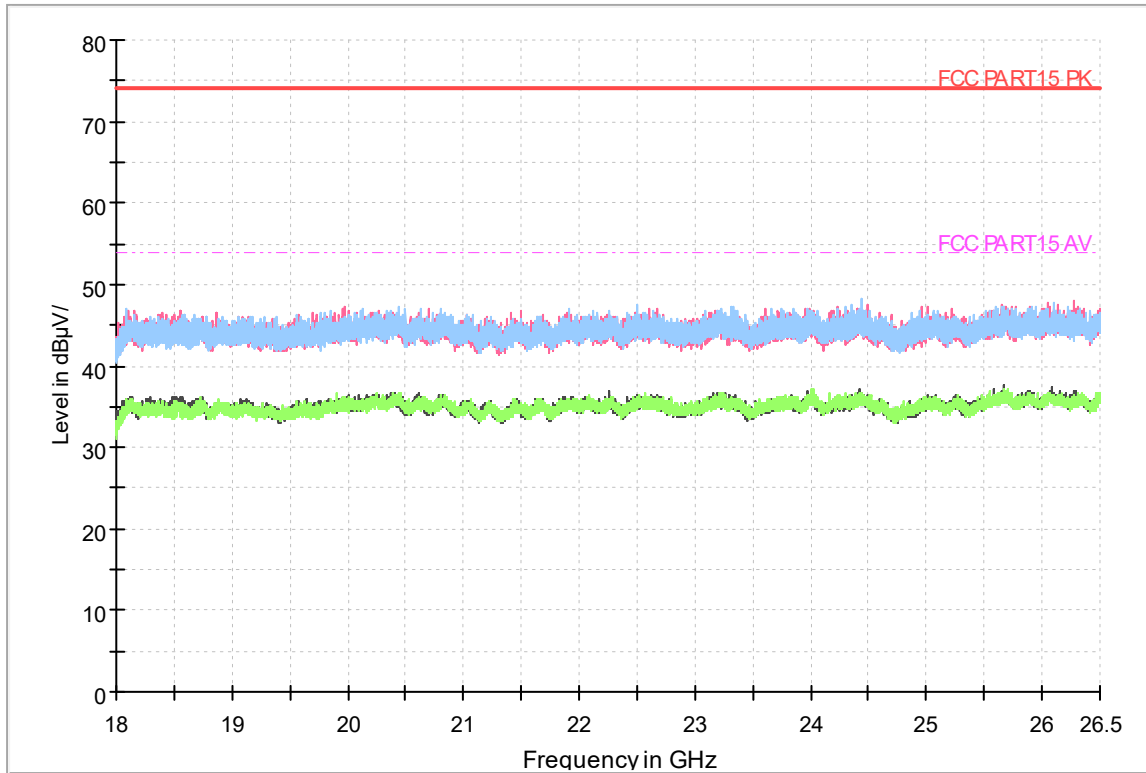


Fig.38 Radiated emission: 18 GHz - 26.5 GHz

**Test photo**

See the document "I22W00019\_Wifi\_BT\_Test Setup Photos".

## 6.9. Power line Conducted Emissions

<b>SpeciPications:</b>	FCC 47 CFR Part 15.207
<b>DUT Serial Number:</b>	S2
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass
<b>Test time:</b>	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 $\mu$ V – 56 dB $\mu$ V	56 dB $\mu$ V – 46 dB $\mu$ V
>0.5 MHz to 5MHz	56 dB $\mu$ V	46 dB $\mu$ V
>5 MHz to 30 MHz	60 dB $\mu$ V	50 dB $\mu$ V

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

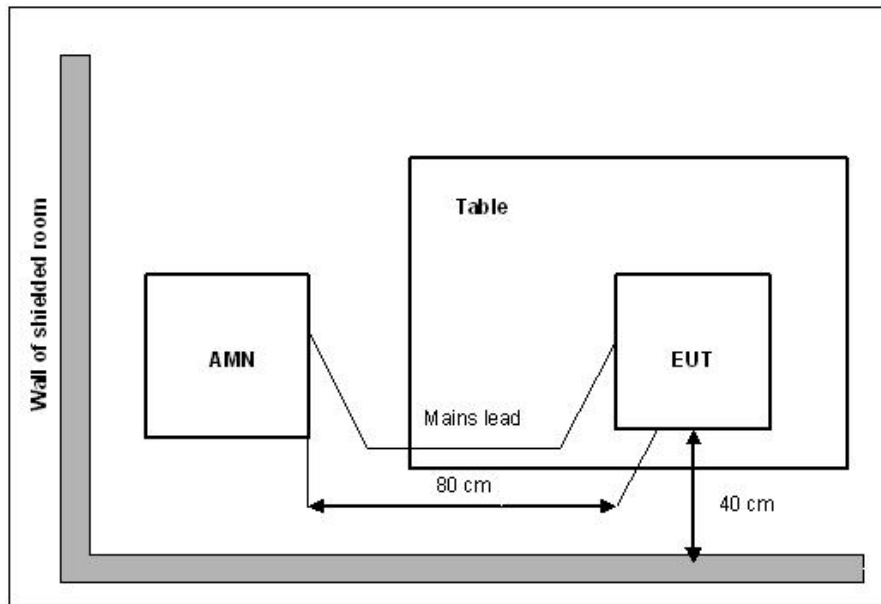
Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

### 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 802.11b(2412MHz)-ant0 test data is presented for this report.

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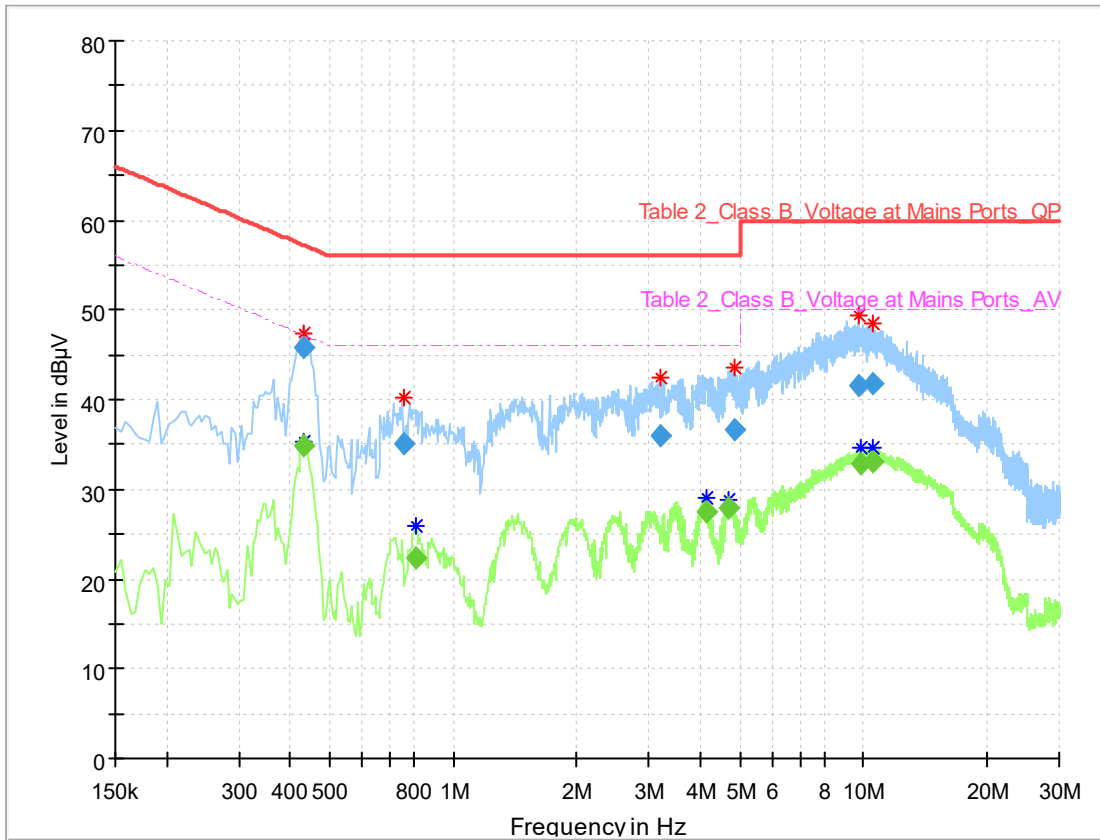
### Test Procedure

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 Public notice 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)
0.433500	45.71	---	57.19	11.47	1000.0	9.000	N	9.9
0.433500	---	34.91	47.19	12.27	1000.0	9.000	N	9.9
0.757500	35.09	---	56.00	20.91	1000.0	9.000	N	9.8
0.807000	---	22.41	46.00	23.59	1000.0	9.000	N	9.8
3.214500	35.94	---	56.00	20.06	1000.0	9.000	N	9.9
4.137000	---	27.55	46.00	18.45	1000.0	9.000	N	10.0
4.713000	---	28.01	46.00	17.99	1000.0	9.000	N	10.0
4.866000	36.54	---	56.00	19.46	1000.0	9.000	N	10.0
9.730500	41.54	---	60.00	18.46	1000.0	9.000	N	10.2
9.816000	---	32.91	50.00	17.09	1000.0	9.000	N	10.2
10.495500	41.77	---	60.00	18.23	1000.0	9.000	N	10.2
10.504500	---	33.01	50.00	16.99	1000.0	9.000	N	10.2

Line L& N

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## **ANNEX A EUT Photos**

See the document" I22W00019-External Photos".

See the document" I22W00019-Internal Photos".

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Report No.: I22W00019-WiFi RF-2.4GHz-Rev4

## **ANNEX B Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

**\*\*\*END OF REPORT\*\*\***

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