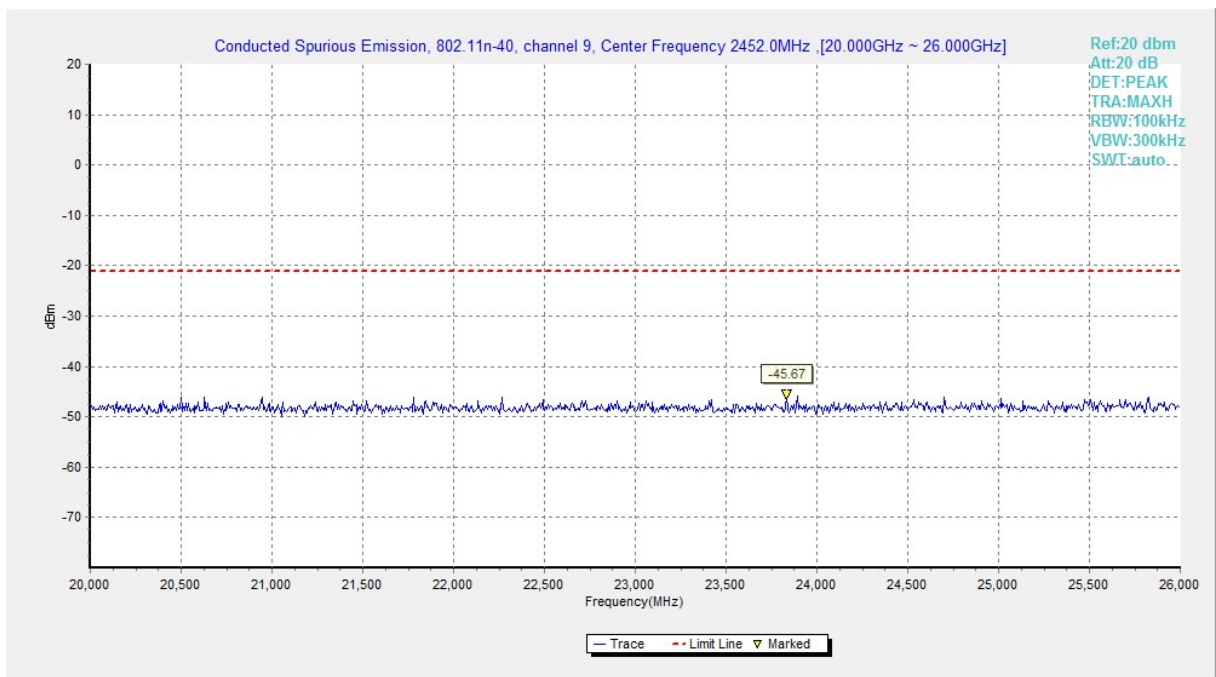


**Fig.A.6.1.95 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 15 GHz-20 GHz)**



**Fig.A.6.1.96 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 20 GHz-26 GHz)**

### A.6.2 Transmitter Spurious Emission - Radiated

**Method of Measurement:** See ANSI C63.10-2013-clause 6.4 & 6.5 & 6.6

**Measurement Limit:**

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

**Limit in restricted band:**

Frequency of emission (MHz)	Field strength( $\mu$ V/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Frequency (MHz)	Field strength( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

### Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

**EUT ID:** EUT1



**Measurement Results:**

**802.11b mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.45GHz	Fig.A.6.2.1	<b>P</b>
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.2	<b>P</b>

**802.11g mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.3	<b>P</b>
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.4	<b>P</b>

**802.11n-HT20 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.5	<b>P</b>
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.6	<b>P</b>

**802.11n-HT40 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.7	<b>P</b>
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.8	<b>P</b>

**Conclusion: Pass**

**Note:**

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

$P_{Mea}$  is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$



**Average**

**802.11b**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2389.335	40.0	-14.3	27.2	27.142	H
17976.000	32.8	-5.4	43.4	-5.184	H
17463.000	32.8	-5.9	40.1	-1.375	V
17977.500	32.8	-5.4	43.4	-5.184	H
17485.500	32.7	-5.9	40.1	-1.475	H
17871.000	32.7	-5.7	43.4	-4.962	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17953.500	32.8	-5.4	43.4	-5.184	H
17964.000	32.8	-5.4	43.4	-5.184	H
17958.000	32.8	-5.4	43.4	-5.184	V
17962.500	32.8	-5.4	43.4	-5.184	H
17974.500	32.8	-5.4	43.4	-5.184	H
17980.500	32.8	-5.4	43.4	-5.184	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2484.945	39.8	-14.4	27.2	26.963	H
17461.500	32.9	-5.9	40.1	-1.275	H
17467.500	32.9	-5.9	40.1	-1.275	V
17949.000	32.8	-5.4	43.4	-5.184	H
17442.000	32.8	-5.9	40.1	-1.375	H
17862.000	32.8	-5.7	43.4	-4.862	H

**802.11g**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2388.615	40.6	-14.3	27.2	27.742	H
17959.500	33.0	-5.4	43.4	-4.984	H
17965.500	32.9	-5.4	43.4	-5.084	V
17445.000	32.8	-5.9	40.1	-1.375	H
17866.500	32.8	-5.7	43.4	-4.862	H
17860.500	32.7	-5.7	43.4	-4.962	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17965.500	32.9	-5.4	43.4	-5.084	H
17950.500	32.9	-5.4	43.4	-5.084	H
17977.500	32.8	-5.4	43.4	-5.184	V
17958.000	32.8	-5.4	43.4	-5.184	H
17982.000	32.8	-5.4	43.4	-5.184	H
17460.000	32.8	-5.9	40.1	-1.375	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2485.375	40.0	-14.4	27.2	27.163	H
17866.500	32.8	-5.7	43.4	-4.862	H
17995.500	32.8	-5.4	43.4	-5.184	V
17947.500	32.8	-5.4	43.4	-5.184	H
17452.500	32.8	-5.9	40.1	-1.375	H
17977.500	32.8	-5.4	43.4	-5.184	H

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2388.935	40.5	-14.3	27.2	27.642	H
17773.500	32.6	-5.7	43.4	-5.062	H
17971.500	32.6	-5.4	43.4	-5.384	V
17965.500	32.6	-5.4	43.4	-5.384	H
17850.000	32.6	-5.7	43.4	-5.062	H
17956.500	32.6	-5.4	43.4	-5.384	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17962.500	32.8	-5.4	43.4	-5.184	H
17977.500	32.8	-5.4	43.4	-5.184	H
17965.500	32.8	-5.4	43.4	-5.184	V
17773.500	32.7	-5.7	43.4	-4.962	H
17976.000	32.7	-5.4	43.4	-5.284	H
17958.000	32.6	-5.4	43.4	-5.384	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2484.115	39.7	-14.4	27.2	26.863	H
17967.000	32.8	-5.4	43.4	-5.184	H
17977.500	32.7	-5.4	43.4	-5.284	V
17443.500	32.7	-5.9	40.1	-1.475	H
17964.000	32.7	-5.4	43.4	-5.284	H
17466.000	32.7	-5.9	40.1	-1.475	H

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2389.995	41.5	-14.3	27.2	28.642	H
17449.500	32.9	-5.9	40.1	-1.275	H
17977.500	32.8	-5.4	43.4	-5.184	V
17970.000	32.8	-5.4	43.4	-5.184	H
17973.000	32.7	-5.4	43.4	-5.284	H
17958.000	32.7	-5.4	43.4	-5.284	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17967.000	32.9	-5.4	43.4	-5.084	H
17965.500	32.9	-5.4	43.4	-5.084	H
17974.500	32.8	-5.4	43.4	-5.184	V
17451.000	32.7	-5.9	40.1	-1.475	H
17856.000	32.7	-5.7	43.4	-4.962	H
17460.000	32.7	-5.9	40.1	-1.475	H

Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2483.540	39.0	-14.4	27.2	26.163	H
17958.000	32.8	-5.4	43.4	-5.184	H
17971.500	32.8	-5.4	43.4	-5.184	V
17449.500	32.8	-5.9	40.1	-1.375	H
17961.000	32.8	-5.4	43.4	-5.184	H
17431.500	32.8	-5.9	40.1	-1.375	H

**Peak**

**802.11b**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2389.800	51.5	-14.3	27.2	38.642	H
17457.000	45.6	-5.9	40.1	11.425	H
17335.500	45.1	-6.5	40.1	11.496	V
17419.500	45.0	-5.9	40.1	10.825	H
17746.500	44.9	-5.7	43.4	7.238	H
17584.500	44.8	-6.9	43.4	8.302	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17847.000	45.3	-5.7	43.4	7.638	H
17568.000	44.9	-6.9	43.4	8.402	H
17976.000	44.9	-5.4	43.4	6.916	V
17608.500	44.7	-6.9	43.4	8.202	H
17430.000	44.6	-5.9	40.1	10.425	H
17805.000	44.6	-5.7	43.4	6.938	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2485.380	52.4	-14.4	27.2	39.563	H
17884.500	45.0	-5.7	43.4	7.338	H
17935.500	45.0	-5.4	43.4	7.016	V
17658.000	45.0	-6.9	43.4	8.502	H
17413.500	45.0	-5.9	40.1	10.825	H
17341.500	44.9	-6.5	40.1	11.296	H

**802.11g**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2388.500	55.9	-14.3	27.2	43.042	H
17382.000	45.0	-6.5	40.1	11.396	H
17959.500	44.9	-5.4	43.4	6.916	V
17781.000	44.9	-5.7	43.4	7.238	H
17817.000	44.8	-5.7	43.4	7.138	H
17586.000	44.7	-6.9	43.4	8.202	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17368.500	45.4	-6.5	40.1	11.796	H
17928.000	44.9	-5.4	43.4	6.916	H
17994.000	44.8	-5.4	43.4	6.816	V
17959.500	44.5	-5.4	43.4	6.516	H
17472.000	44.5	-5.9	40.1	10.325	H
17965.500	44.5	-5.4	43.4	6.516	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2485.675	51.4	-14.4	27.2	38.563	H
17952.000	45.3	-5.4	43.4	7.316	H
17839.500	45.2	-5.7	43.4	7.538	V
17850.000	45.0	-5.7	43.4	7.338	H
17772.000	45.0	-5.7	43.4	7.338	H
17535.000	44.8	-5.9	43.4	7.325	H

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2388.050	55.2	-14.3	27.2	42.342	H
17535.000	44.9	-5.9	43.4	7.425	H
17803.500	44.7	-5.7	43.4	7.038	V
17856.000	44.7	-5.7	43.4	7.038	H
17566.500	44.7	-6.9	43.4	8.202	H
17974.500	44.6	-5.4	43.4	6.616	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17833.500	45.6	-5.7	43.4	7.938	H
17472.000	45.3	-5.9	40.1	11.125	H
17476.500	44.9	-5.9	40.1	10.725	V
17496.000	44.7	-5.9	40.1	10.525	H
17878.500	44.7	-5.7	43.4	7.038	H
17577.000	44.6	-6.9	43.4	8.102	H



Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2483.800	55.1	-14.4	27.2	42.263	H
17845.500	45.0	-5.7	43.4	7.338	H
17484.000	45.0	-5.9	40.1	10.825	V
17671.500	44.6	-6.9	43.4	8.102	H
17697.000	44.5	-6.9	43.4	8.002	H
17973.000	44.5	-5.4	43.4	6.516	H

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2387.730	54.6	-14.3	27.2	41.742	H
17856.000	45.1	-5.7	43.4	7.438	H
17655.000	45.1	-6.9	43.4	8.602	V
17449.500	44.9	-5.9	40.1	10.725	H
17181.000	44.8	-6.3	40.1	11.005	H
17206.500	44.8	-6.3	40.1	11.005	H

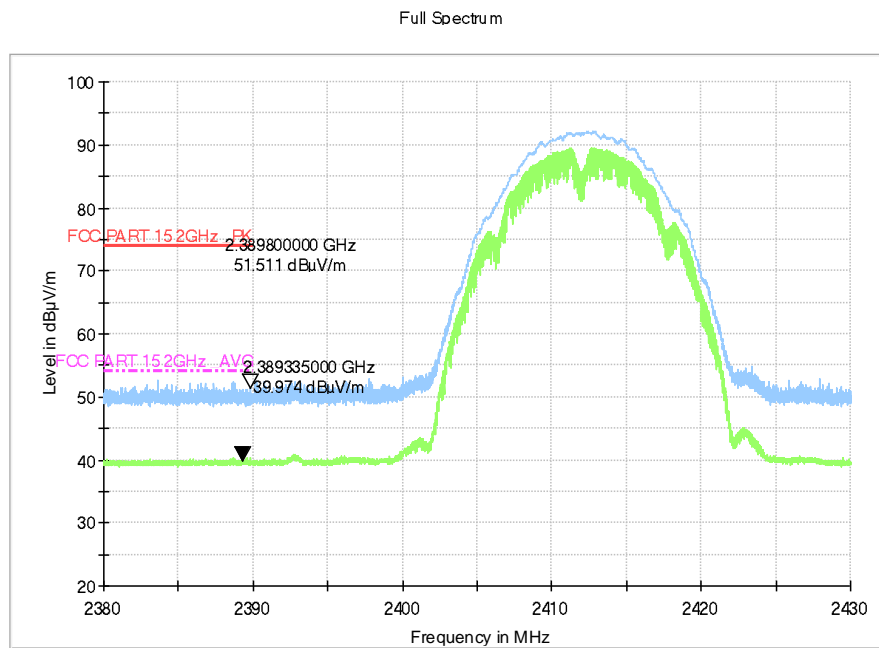
Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17554.500	45.2	-5.9	43.4	7.725	H
17788.500	44.8	-5.7	43.4	7.138	H
17652.000	44.8	-6.9	43.4	8.302	V
17907.000	44.7	-5.7	43.4	7.038	H
17863.500	44.5	-5.7	43.4	6.838	H
17547.000	44.5	-5.9	43.4	7.025	H

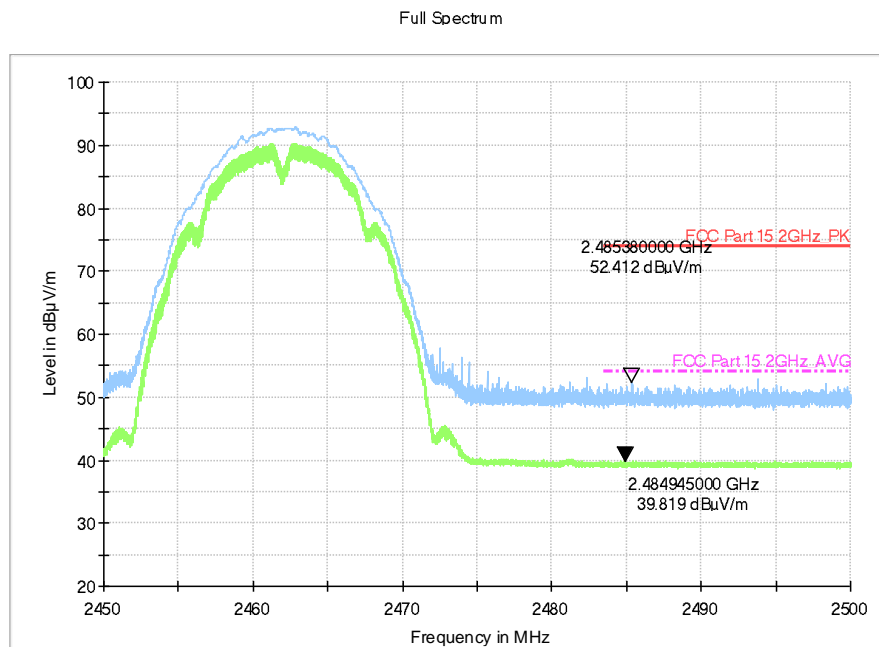
Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
2483.890	51.5	-14.4	27.2	38.663	H
17638.500	45.4	-6.9	43.4	8.902	H
17472.000	44.8	-5.9	40.1	10.625	V
17505.000	44.7	-5.9	43.4	7.225	H
17374.500	44.6	-6.5	40.1	10.996	H
17940.000	44.6	-5.4	43.4	6.616	H

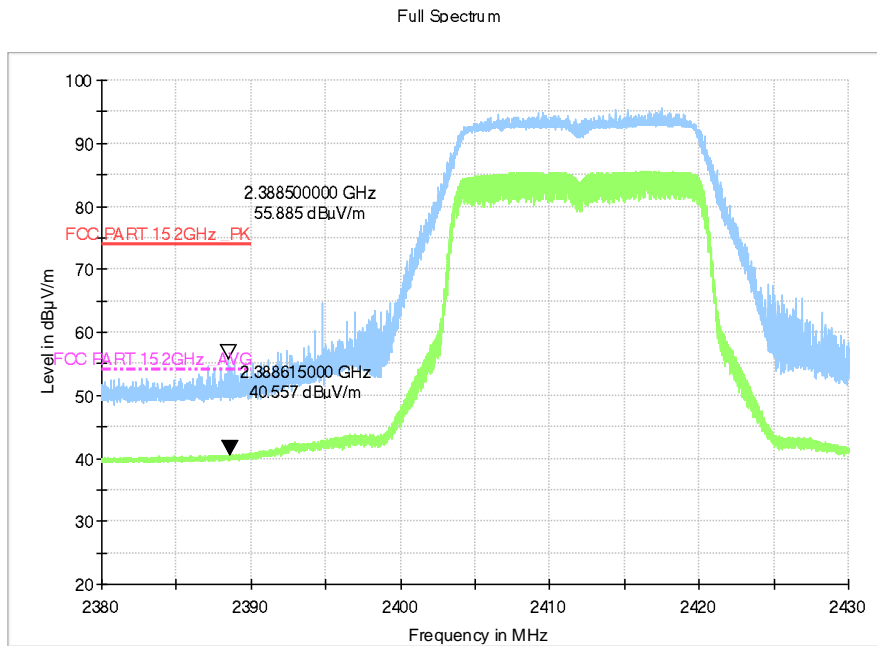
Test graphs as below:



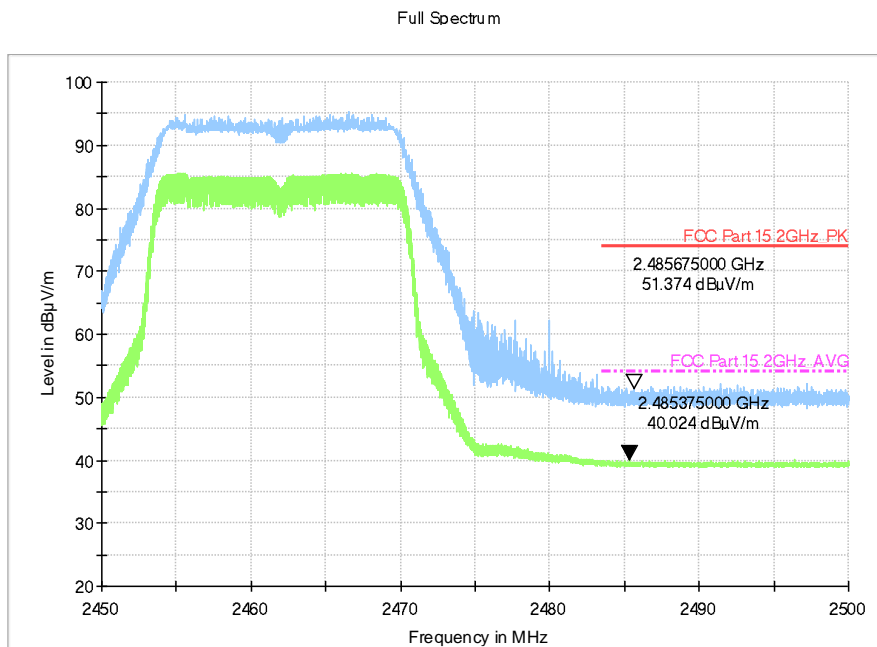
**Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz**



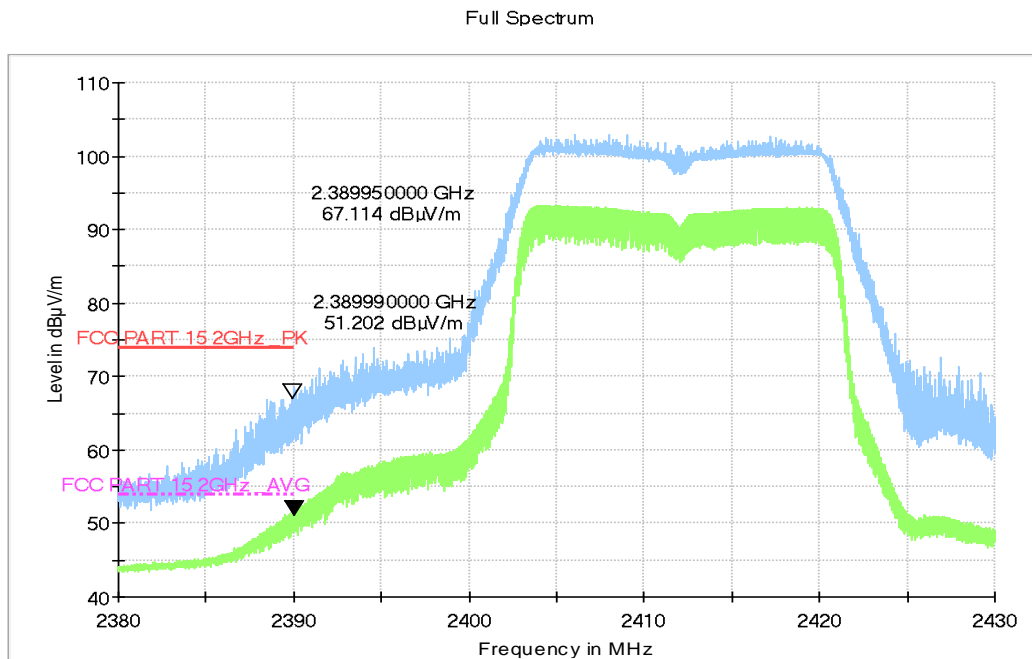
**Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz**



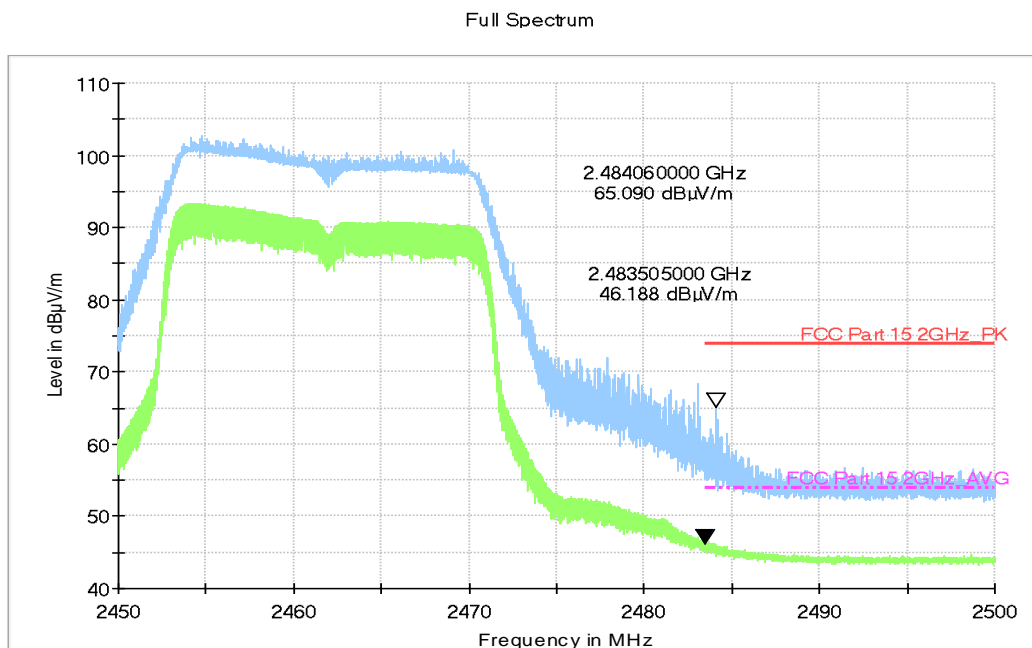
**Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz**



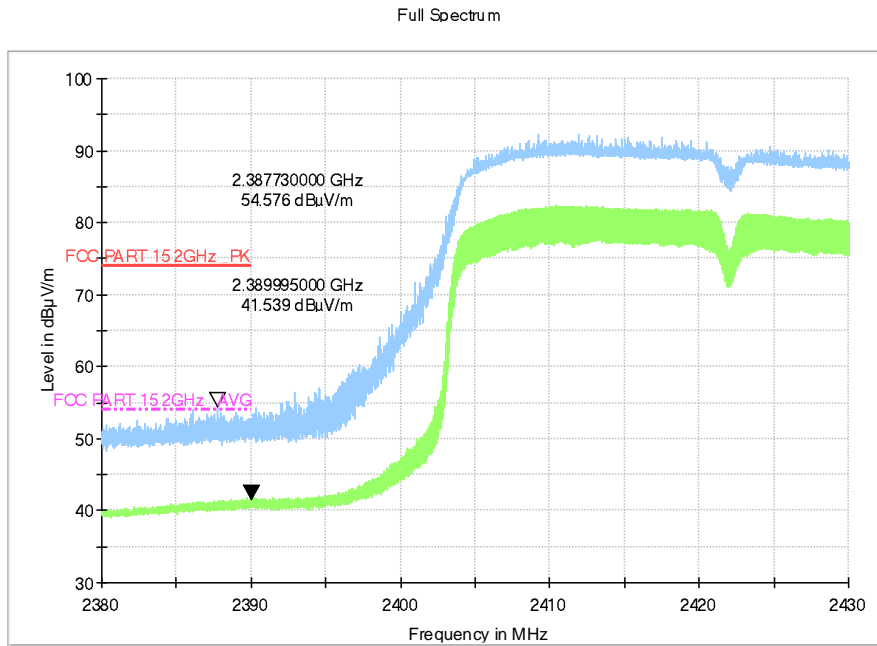
**Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz**



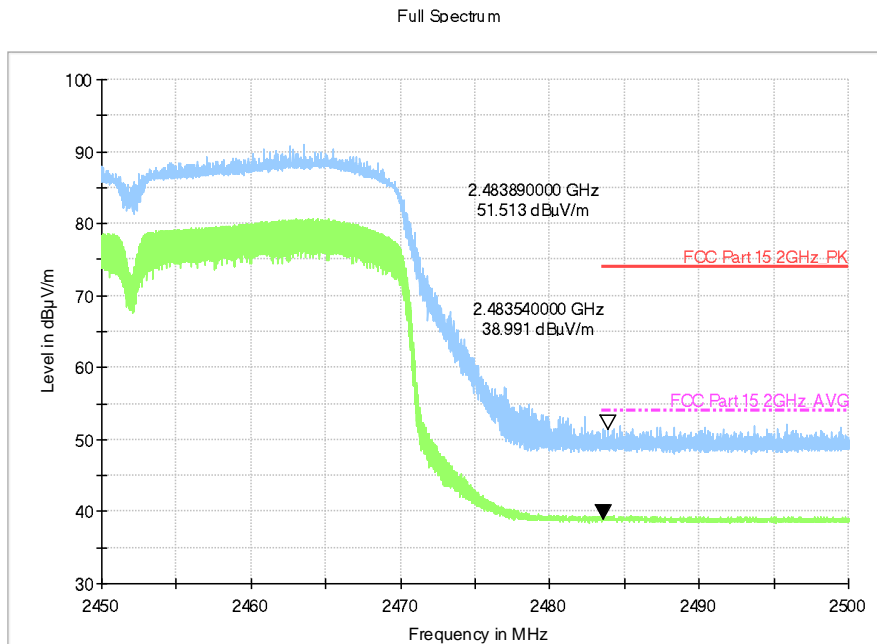
**Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz**



**Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz**



**Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz**



**Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz**

## **A.7. AC Power-line Conducted Emission**

### **Method of Measurement: See ANSI C63.10-2013-clause 6.2**

- 1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
- 2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
- 3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
- 4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.
- 5 If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.<sup>36</sup> Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

### **Test Condition:**

<b>Voltage (V)</b>	<b>Frequency (Hz)</b>
120	60

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger AE2		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.7.1	Fig.A.7.2	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger AE2		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1	Fig.A.7.2	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger AE3		
		802.11b	Idle	
0.15 to 0.5	67 to 56	Fig.A.7.3	Fig.A.7.4	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

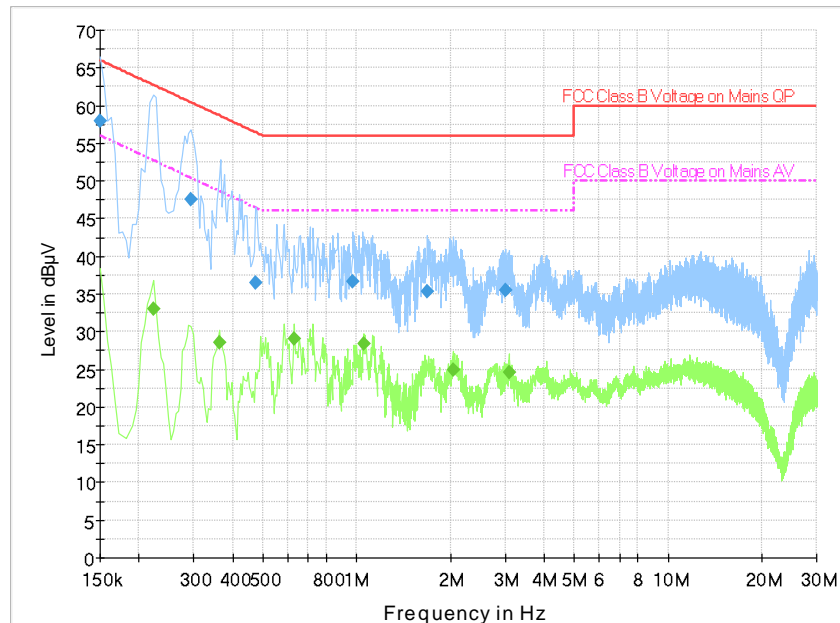
WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger AE3		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.3	Fig.A.7.4	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Conclusion: Pass**

**Test graphs as below:**



**Fig.A.7.1 AC Powerline Conducted Emission-802.11b**

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

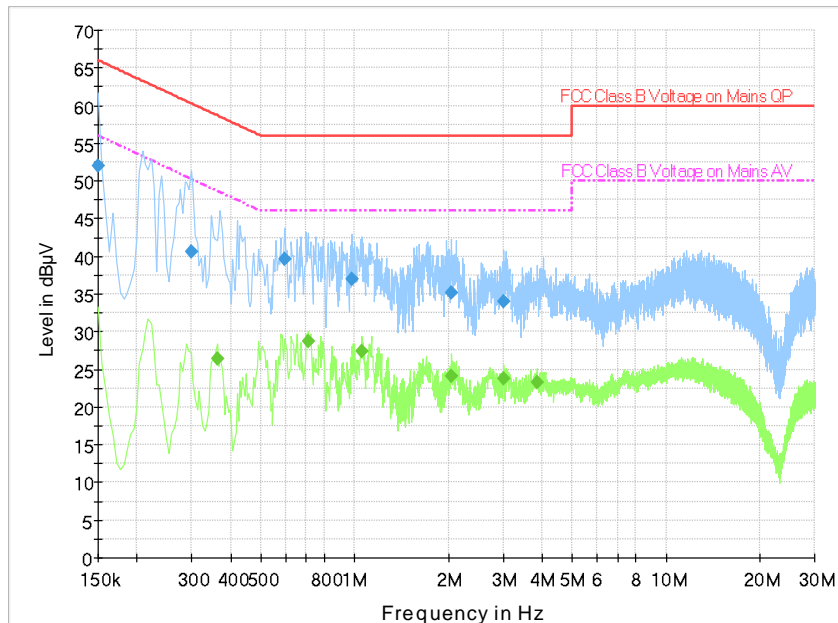
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	58.0	GND	L1	20.2	8.0	66.0
0.294000	47.6	GND	L1	19.8	12.8	60.4
0.474000	36.6	GND	L1	19.9	19.9	56.4
0.973500	36.6	GND	L1	19.6	19.4	56.0
1.684500	35.3	GND	L1	19.7	20.7	56.0
3.012000	35.5	GND	L1	19.7	20.5	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.222000	33.1	GND	L1	19.8	19.7	52.7
0.361500	28.6	GND	L1	19.8	20.1	48.7
0.631500	29.1	GND	L1	19.8	16.9	46.0
1.054500	28.4	GND	L1	19.6	17.6	46.0
2.035500	24.9	GND	L1	19.7	21.1	46.0
3.079500	24.6	GND	L1	19.7	21.4	46.0





**Fig.A.7.2 AC Powerline Conducted Emission-Idle**

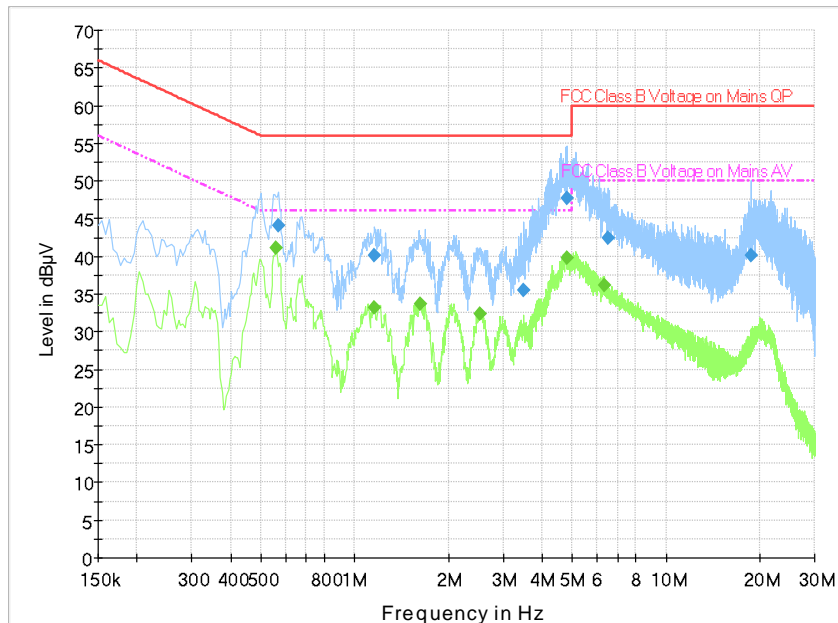
Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	51.9	GND	L1	20.2	14.1	66.0
0.298500	40.6	GND	L1	19.8	19.7	60.3
0.595500	39.6	GND	L1	19.8	16.4	56.0
0.982500	37.0	GND	L1	19.6	19.0	56.0
2.044500	35.2	GND	L1	19.7	20.8	56.0
3.003000	34.1	GND	L1	19.7	21.9	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.361500	26.5	GND	L1	19.8	22.2	48.7
0.708000	28.7	GND	L1	19.8	17.3	46.0
1.059000	27.4	GND	L1	19.6	18.6	46.0
2.053500	24.2	GND	L1	19.7	21.8	46.0
3.003000	23.8	GND	L1	19.7	22.2	46.0
3.844500	23.3	GND	L1	19.6	22.7	46.0



**Fig.A.7.3 AC Powerline Conducted Emission-802.11b**

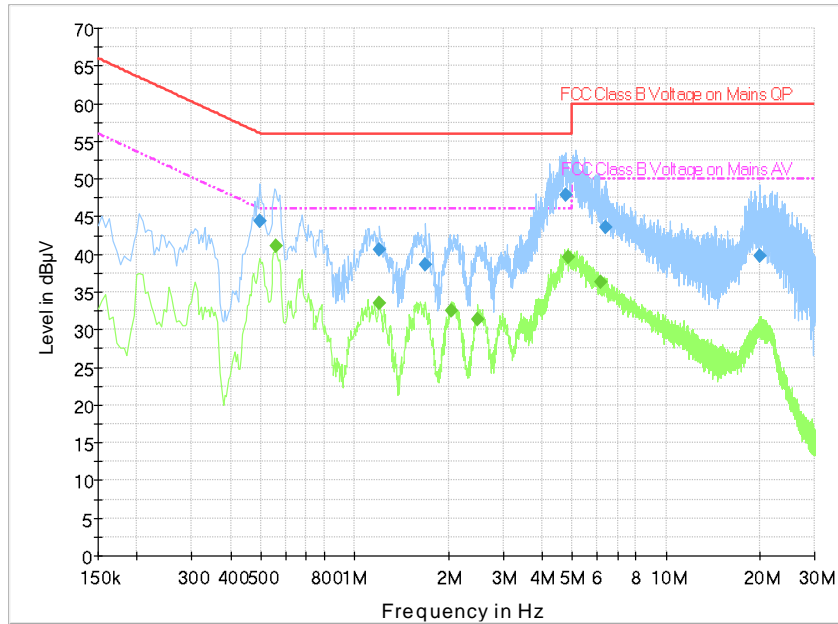
Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.568500	44.1	GND	L1	19.9	11.9	56.0
1.158000	40.2	GND	L1	19.6	15.8	56.0
3.498000	35.5	GND	N	19.7	20.5	56.0
4.789500	47.7	GND	L1	19.6	8.3	56.0
6.513000	42.5	GND	L1	19.8	17.5	60.0
18.775500	40.1	GND	N	19.9	19.9	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.559500	41.1	GND	L1	19.9	4.9	46.0
1.158000	33.3	GND	L1	19.6	12.7	46.0
1.630500	33.7	GND	L1	19.7	12.3	46.0
2.517000	32.4	GND	L1	19.7	13.6	46.0
4.798500	39.8	GND	L1	19.6	6.2	46.0
6.360000	36.1	GND	L1	19.8	13.9	50.0



**Fig.A.7.4 AC Powerline Conducted Emission-Idle**

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.496500	44.5	GND	L1	19.9	11.6	56.1
1.203000	40.6	GND	L1	19.6	15.4	56.0
1.689000	38.6	GND	L1	19.7	17.4	56.0
4.744500	47.9	GND	L1	19.6	8.1	56.0
6.414000	43.5	GND	L1	19.8	16.5	60.0
20.076000	39.8	GND	N	20.0	20.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.559500	41.1	GND	L1	19.9	4.9	46.0
1.203000	33.5	GND	L1	19.6	12.5	46.0
2.040000	32.6	GND	L1	19.7	13.4	46.0
2.490000	31.3	GND	L1	19.7	14.7	46.0
4.834500	39.6	GND	L1	19.6	6.4	46.0
6.153000	36.2	GND	L1	19.7	13.8	50.0

**ANNEX B: Accreditation Certificate**

United States Department of Commerce  
National Institute of Standards and Technology

**NVLAP**<sup>®</sup>

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**Certificate of Accreditation to ISO/IEC 17025:2005**

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NVLAP LAB CODE: 600118-0

**Telecommunication Technology Labs, CAICT**  
Beijing  
China

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**Electromagnetic Compatibility & Telecommunications**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

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2018-09-28 through 2019-09-30  
Effective Dates



  
For the National Voluntary Laboratory Accreditation Program

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