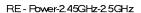


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.43GHz



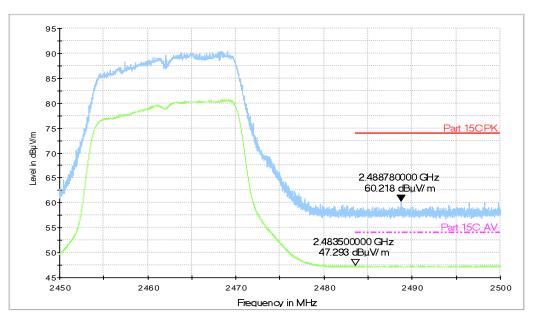
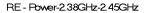


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz





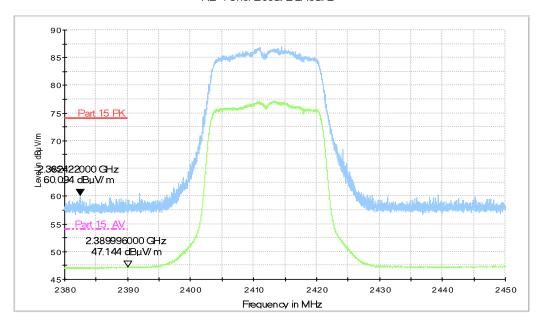
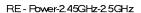


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz



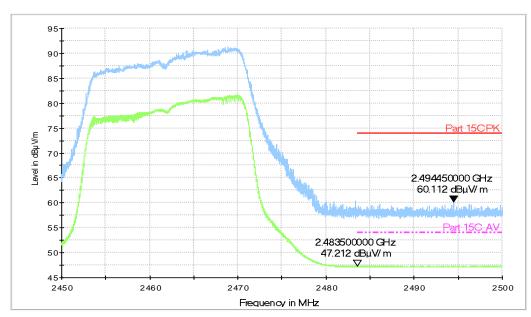
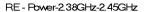


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz





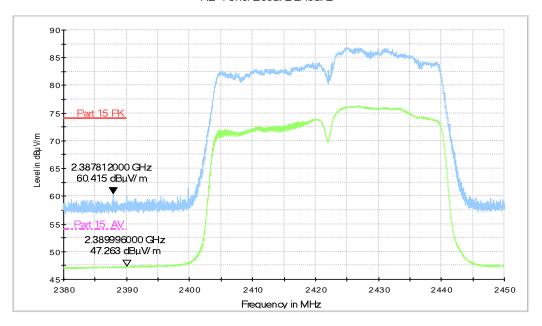


Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.43GHz



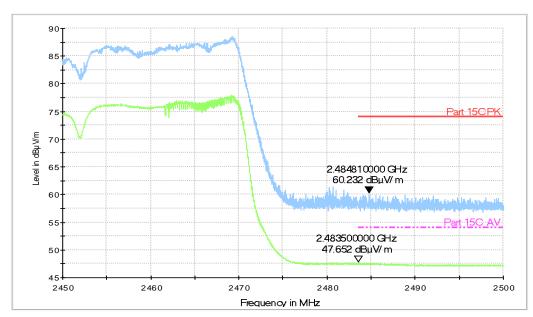


Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz



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.
- 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.
- 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.36 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:

Voltage (V)	Frequency (Hz)			
120	60			



Measurement Result and limit:

WLAN (Quasi-peak Limit)

Eroguenov rongo	Ougoi nock	Result (
Frequency range Quasi-peak (MHz) Limit (dBµV		With ch	Conclusion	
(11112)	Lillit (αΒμν)	802.11b	ldle	
0.15 to 0.5	66 to 56			
0.5 to 5	56	Fig.A.7.1	Fig.A.7.2	Р
5 to 30	60	I Ig.A.7.2		-

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

WLAN (Average Limit)

Erogueney renge	Avorage Limit	Result	(dBμV)	
Frequency range Average Lir		With cl	Conclusion	
(IVITIZ)	(dBμV)	802.11b	ldle	
0.15 to 0.5	56 to 46			
0.5 to 5	46	Fig.A.7.1	Fig.A.7.1 Fig.A.7.2	
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:



Traffic: Set.11

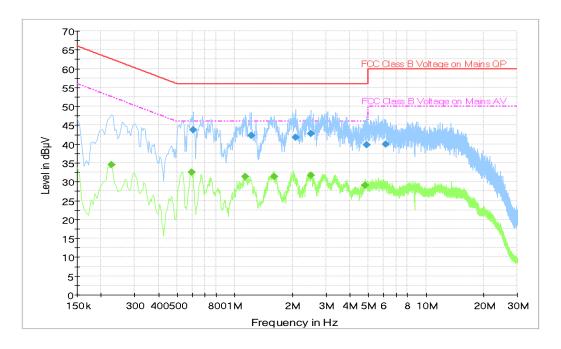


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

Frequency	QuasiPeak	Meas.	Bandwidt	Filter	Line	Corr.	Margi	Limit
(MHz)	(dBµV)	Time	h			(dB)	n	(dBμV
		(ms)	(kHz)				(dB))
0.604500	43.8	2000.	9.000	On	L1	19.8	12.2	56.0
1.216500	42.3	2000.	9.000	On	L1	19.6	13.7	56.0
2.085000	41.8	2000.	9.000	On	L1	19.7	14.2	56.0
2.494500	42.7	2000.	9.000	On	L1	19.7	13.3	56.0
4.879500	39.8	2000.	9.000	On	L1	19.6	16.2	56.0
6.139500	39.9	2000.	9.000	On	L1	19.7	20.1	60.0

Final Result 2

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBμV
		(ms))
0.226500	34.6	2000.	9.000	On	L1	19.8	18.0	52.6
0.595500	32.4	2000.	9.000	On	L1	19.8	13.6	46.0
1.135500	31.3	2000.	9.000	On	L1	19.6	14.7	46.0
1.603500	31.4	2000.	9.000	On	L1	19.7	14.6	46.0
2.508000	31.6	2000.	9.000	On	L1	19.7	14.4	46.0
4.821000	29.0	2000.	9.000	On	L1	19.6	17.0	46.0



Idle: Set.11

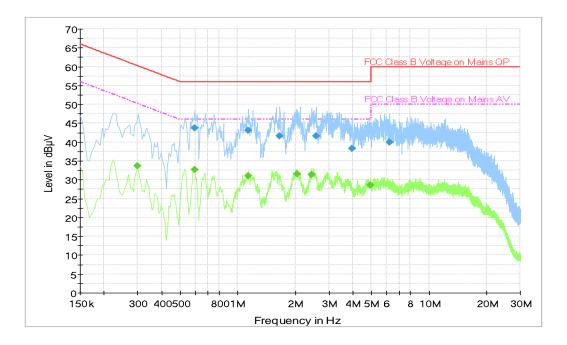


Fig.A.7.2 AC Powerline Conducted Emission-Idle

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

Final Result 1

Frequency	QuasiPeak	Meas.	Bandwidt	Filter	Line	Corr.	Margi	Limit
(MHz)	(dBµV)	Time	h			(dB)	n	(dBμV
		(ms)	(kHz)				(dB))
0.595500	43.8	2000.	9.000	On	L1	19.8	12.2	56.0
1.135500	43.0	2000.	9.000	On	L1	19.6	13.0	56.0
1.662000	41.7	2000.	9.000	On	L1	19.7	14.3	56.0
2.575500	41.6	2000.	9.000	On	L1	19.7	14.4	56.0
3.961500	38.3	2000.	9.000	On	L1	19.6	17.7	56.0
6.238500	40.0	2000.	9.000	On	L1	19.7	20.0	60.0

Final Result 2

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBμV
		(ms))
0.298500	33.6	2000.	9.000	On	L1	19.8	16.7	50.3
0.595500	32.6	2000.	9.000	On	L1	19.8	13.4	46.0
1.135500	31.0	2000.	9.000	On	L1	19.6	15.0	46.0
2.044500	31.6	2000.	9.000	On	L1	19.7	14.4	46.0
2.431500	31.4	2000.	9.000	On	L1	19.7	14.6	46.0
4.942500	28.6	2000.	9.000	On	L1	19.6	17.4	46.0



ANNEX B: Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

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).

2017-08-22 through 2018-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

END OF REPORT