A.10. AC Power Line Conducted Emission

Test Condition:

Voltage（V）	Frequency（Hz）
120	60

Measurement Result and limit:

RLAN (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.208	Fig.209	**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.				

RLAN (Average Limit)-AE1

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig 145	Fig 146	**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.				

Note: The measurement results include the L1 and N measurements.

Conclusion: PASS

Test graphs as below:

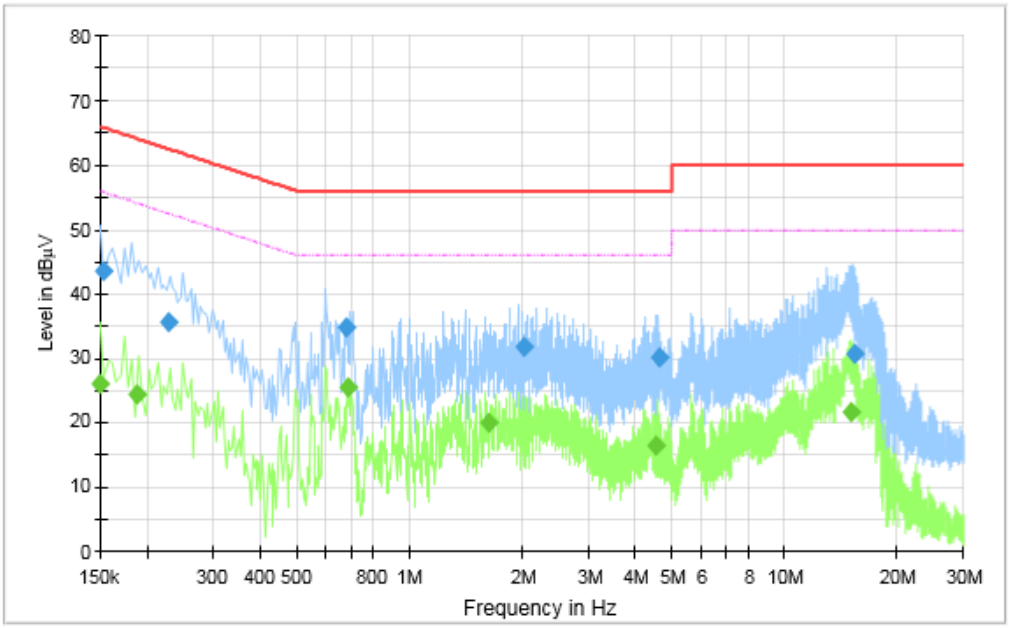

Fig. 208 AC Power line Conducted Emission (802.11n, AE1, 120V)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
4.640	30.21	56.00	25.79	N	ON	9.7
15.360	30.64	60.00	29.36	N	ON	9.8
2.028	31.89	56.00	24.11	N	ON	9.7
0.680	34.79	56.00	21.21	N	ON	9.6
0.228	35.53	62.52	26.99	N	ON	9.6
0.154	43.52	65.78	22.27	N	ON	9.6

Measurement Result: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150	25.89	56.00	30.11	L1	ON	9.6
0.188	24.25	54.12	29.87	N	ON	9.6
0.684	25.38	46.00	20.62	N	ON	9.6
1.620	20.10	46.00	25.90	N	ON	9.7
4.520	16.39	46.00	29.61	N	ON	9.7
14.984	21.56	50.00	28.44	N	ON	9.8

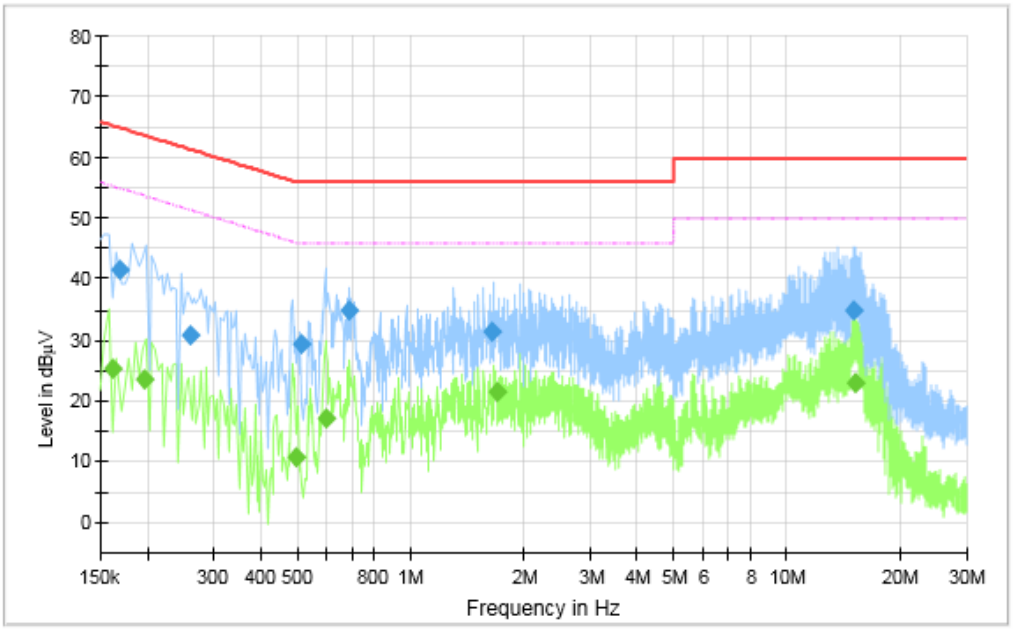

Fig. 209 AC Power line Conducted Emission (Idle, AE1, 120V)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.512	29.32	56.00	26.68	N	ON	9.6
0.260	30.68	61.43	30.76	N	ON	9.6
1.640	31.41	56.00	24.59	N	ON	9.7
15.040	34.80	60.00	25.20	N	ON	9.8
0.684	34.88	56.00	21.12	N	ON	9.6
0.168	41.53	65.06	23.52	L1	ON	9.6

Measurement Result: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.162	25.18	55.36	30.18	N	ON	9.6
0.196	23.50	53.78	30.28	N	ON	9.6
0.496	10.60	46.07	35.47	N	ON	9.6
0.596	17.03	46.00	28.97	N	ON	9.6
1.700	21.43	46.00	24.57	N	ON	9.7
15.208	22.91	50.00	27.09	N	ON	9.8

A.11. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Measurement Result:

Mode	Channel	Condition		Frequency	Conclusion
802.11a	5180 MHz (CH36)	T nom	V nom	5179.9865	**P**
		T max	V nom	5179.9781	**P**
		T min	V nom	5179.9858	**P**
		T nom	V max	5179.9852	**P**
		T nom	V min	5179.9790	**P**
802.11n-HT20	5180 MHz (CH36)	T nom	V nom	5179.9874	**P**
		T max	V nom	5179.9796	**P**
		T min	V nom	5179.9839	**P**
		T nom	V max	5179.9784	**P**
		T nom	V min	5179.9842	**P**
802.11n HT40	5550 MHz (CH110)	T nom	V nom	5549.9243	**P**
		T max	V nom	5549.9672	**P**
		T min	V nom	5549.9687	**P**
		T nom	V max	5549.9566	**P**
		T nom	V min	5549.9643	**P**
802.11ac VHT80	5690 MHz (CH138)	T nom	V nom	5689.9869	**P**
		T max	V nom	5689.9672	**P**
		T min	V nom	5689.9768	**P**
		T nom	V max	5689.9887	**P**
		T nom	V min	5689.9974	**P**

A.12. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500mW).

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