



Declaration

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCE-1-1604C201B	Original Issue.	Nov. 01, 2016
		11





1.CERIFICATION

Brand Name : Test Model : Applicant : Manufacturer :	Wireless LAN Access Point HUAWEI AP6050DN, AP6150DN Huawei Technologies Co.,Ltd. Huawei Technologies Co.,Ltd. Administration Building, Huawei Base, Bantian, Longgang District ,Shenzhen
	518129, P.R.China
Factory :	CIG Shanghai Co.,Ltd., Shanghai Branch.
Address :	F/2,3 Building 1, No. 505 Jiangyue Road, Minhang District, Shanghai, P.R. China
Date of Test :	Sep. 09, 2016 ~ Oct. 31, 2016
•	Engineering Sample FCC Part 15, Subpart B ANSI C63.4-2014

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCE-1-1604C201B) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures	according to	the technical	atondard(a)	
rest procedures	according to	the technical	stanuaru(s).	

EMC Emission				
Standard(s)	Test Item	Limit	Judgment	Remark
	Conducted Emission	Class B	PASS	
FCC Part15, Subpart B	Radiated emission Below 1 GHz	Class B	PASS	
	Radiated emission Above 1 GHz	Class B	PASS	NOTE(2)

NOTE:

- (1) " N/A" denotes test is not applicable to this device.
- (2) The EUT's max operating frequency is 5GHz which exceeds 108 MHz, so the test will be performed.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately **95**%.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150 kHz ~ 30MHz	2.32

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
		9KHz ~ 30MHz	V	3.79
	DG-CB03 (3m) CISPR	9KHz ~ 30MHz	Н	3.57
DG-CB03		30MHz ~ 200MHz	V	3.82
(3m)		30MHz ~ 200MHz	Н	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	Н	4.06

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03	CISPB	1GHz ~ 18GHz	V	3.12
(3m)	UISEN	1GHz ~ 18GHz	Н	3.68

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless LAN Access Point
Brand Name	HUAWEI
Test Model	AP6050DN, AP6150DN
Model Difference	AP6050DN: built-in omnidirectional dual-band antenna. AP6150DN: external omnidirectional dual-band antenna.
Power Source	#1 DC voltage supplied from AC Adapter.#2 Supplied from PoE.Model: PoE35-54A
Power Rating	#1 DC 12V 2A #2 PoE -48V

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

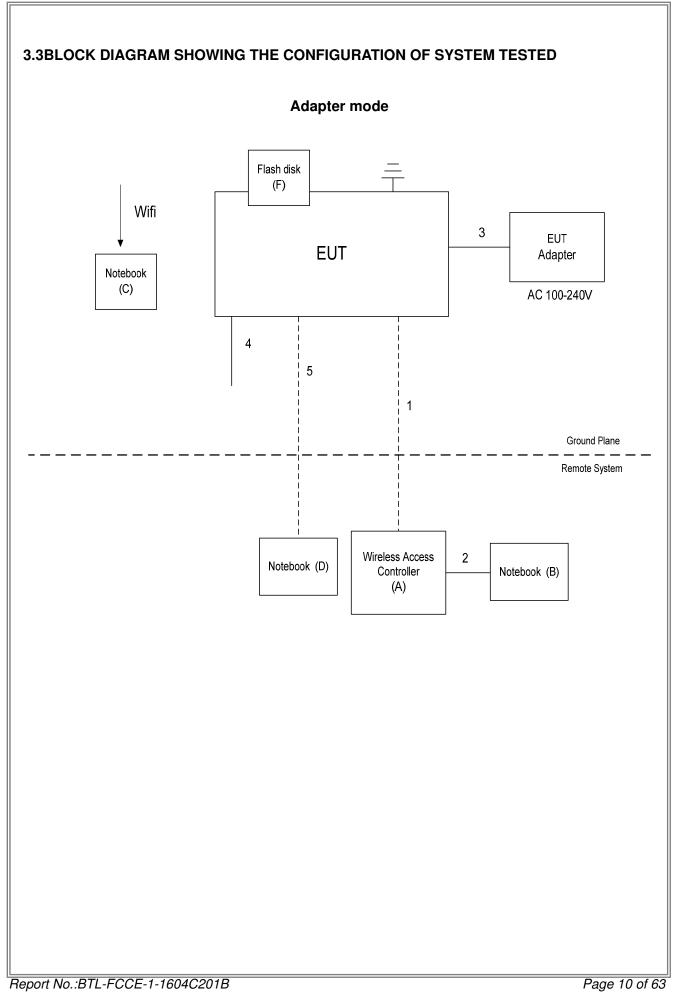
Pretest Mode	Description
Mode 1	FULL SYSTEM

For Conducted Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM

	For Radiated Test
Final Test Mode	Description
Mode 1	FULL SYSTEM

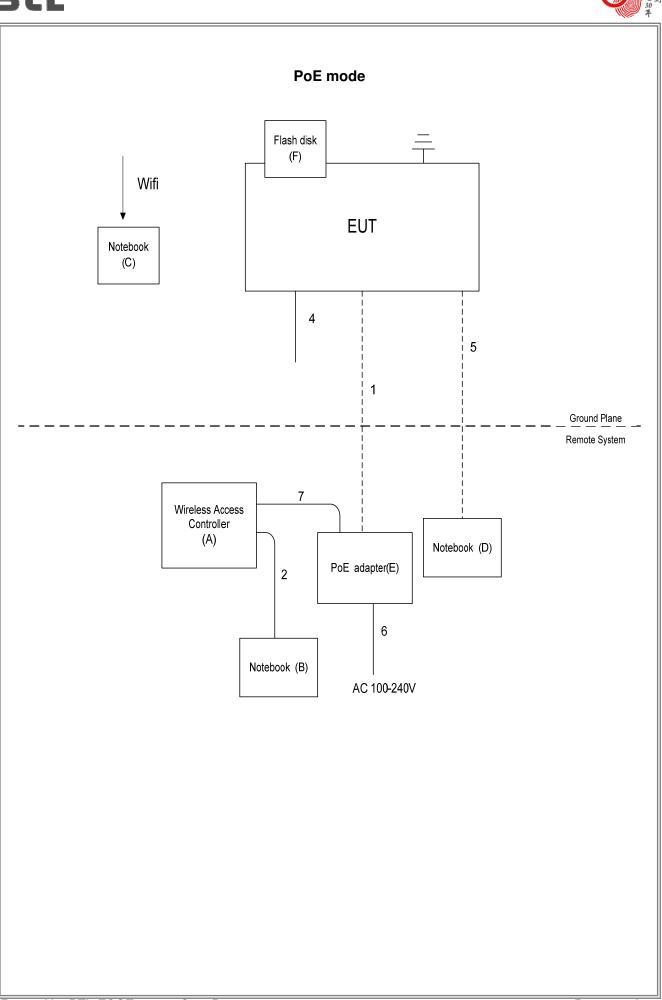






JTL







3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
А	Wireless Access Controller	HUAWEI	AC6605-26-RWP	N/A	N/A
В	Notebook	DELL	latitude E5510	DOC	N/A
С	Notebook	DELL	latitude E5510	DOC	N/A
D	Notebook	Lenovo	E445	NA	MP-05Y56S
Е	PoE adapter	HUAWEI	PoE35-54A	N/A	N/A
F	Flash DISK	Kingston	DT101G2/8G	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note		
1	NO	NO	10m	RJ45 Cable		
2	NO	NO	3m	RJ45 Cable		
3	NO	NO	1.5m	DC Cable		
4	YES	NO	1.8m	Console Cable		
5	NO	NO	10m	RJ45 Cable		
6	NO	NO	1.8m	AC main cable		
7	NO	NO	3m	RJ45 Cable		





4.EMC EMISSION TEST

4.1CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCYRANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.





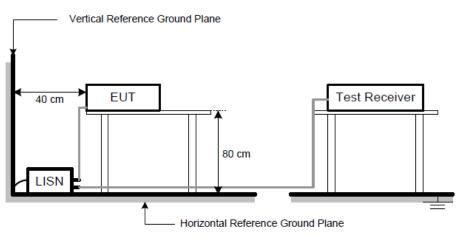
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipmentspowered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- f. First the whole spectrum of emission caused by equipment under test(EUT) is recorded with Detector set to peak.Peak value recorded in table if the margin from QP Limit is larger than 2dB,otherwise,QP value is recorded, Measuring frequency range from 150KHz to 30MHz.

4.1.4 DEVIATIONFROMTESTSTANDARD

No deviation

4.1.5 TESTSETUP



4.1.6EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.



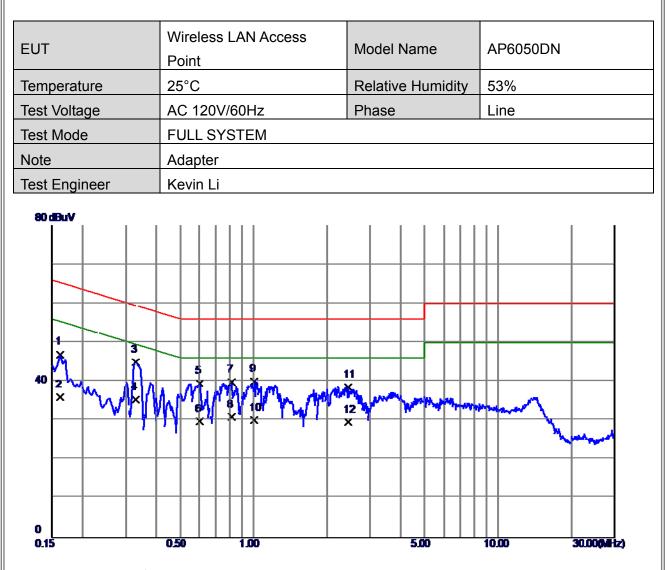
4.1.7 TEST RESULTS

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of "Note... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform on this case, a "*" marked in AVG Mode column of Interference Voltage Measured.



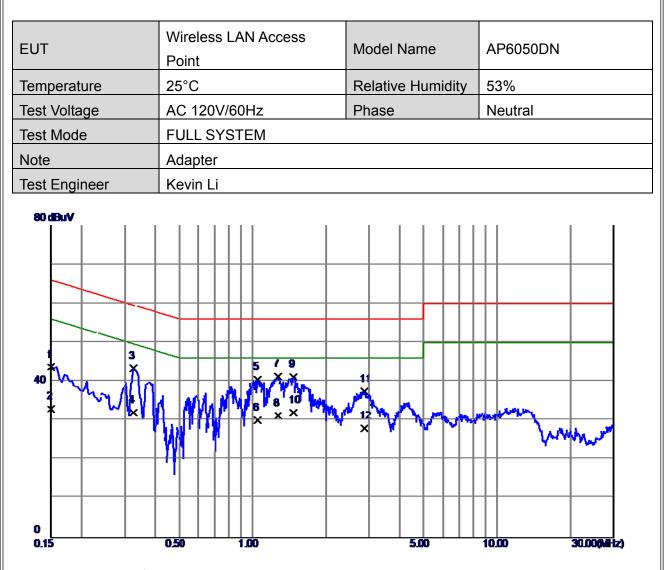




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1620	37.44	9.52	46.96	65.36	-18.40	QP
2	0.1620	26.50	9.52	36.02	55.36	-19.34	AVG
3	0.3300	35.47	9.53	45.00	59.4 5	-14.45	QP
4 *	0.3300	25.80	9.53	35. 33	49.45	-14. 12	AVG
5	0.6020	29.88	9.64	39. 52	56.00	-16. 48	QP
6	0.6020	20.10	9.64	29.74	46.00	-16.26	AVG
7	0.8139	30.02	9.75	39.77	56.00	-16.23	QP
8	0.8139	21. 20	9.75	30.95	46.00	-15.05	AVG
9	1.0060	30. 22	9.76	39.98	56.00	-16.02	QP
10	1.0060	20.30	9.76	30.06	46.00	-15 . 9 4	AVG
11	2.4460	28.53	10.07	38.60	56.00	-17.40	QP
12	2. 4460	19. 50	10.07	29.57	46.00	-16. 43	AVG



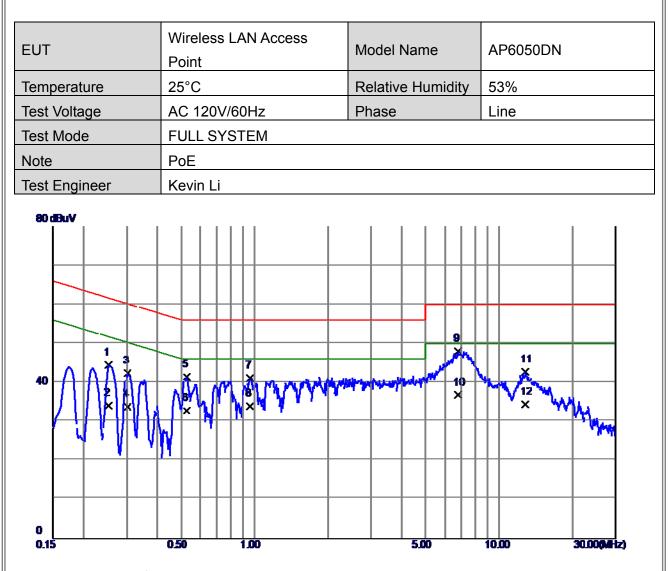




Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
MHz	dBuV	dB	dBuV	dBuV	dB	Detector
0.1500	34.14	9.52	43.66	66.00	-22.34	QP
0.1500	23. 50	9.52	33.02	56.00	-22.98	AVG
0.3260	33. 78	9.53	43. 31	59. 55	-16.24	QP
0.3260	22. 50	9.53	32.03	49.55	-17. 52	AVG
1.0460	30.88	9.66	40. 54	56.00	-15.46	QP
1.0460	20.40	9.66	30.06	46.00	-15. 94	AVG
1.2740	31.66	9.67	41.33	56.00	-14.67	QP
1.2740	21. 50	9.67	31.17	46.00	-14.83	AVG
1.4740	31.43	9.67	41.10	56.00	-14. 90	QP
1.4740	22. 40	9.67	32.07	46.00	-13. 93	AVG
2.8699	27.67	9.79	37.46	56.00	-18.54	QP
2.8699	18.20	9.79	27.99	46.00	-18.01	AVG
	MHz 0.1500 0.3260 0.3260 1.0460 1.0460 1.2740 1.2740 1.4740 1.4740 2.8699	Freq. Level MHz dBuV 0.1500 34.14 0.1500 23.50 0.3260 33.78 0.3260 22.50 1.0460 30.88 1.0460 20.40 1.2740 31.66 1.2740 31.43 1.4740 22.40 2.8699 27.67	Freq. Level Factor MHz dBuV dB 0.1500 34.14 9.52 0.1500 23.50 9.52 0.3260 33.78 9.53 0.3260 22.50 9.53 1.0460 30.88 9.66 1.2740 31.66 9.67 1.4740 31.43 9.67 1.4740 22.40 9.67 2.8699 27.67 9.79	Freq.LevelFactormentMHzdBuVdBdBuV0.150034.149.5243.660.150023.509.5233.020.326033.789.5343.310.326022.509.5332.031.046030.889.6640.541.046020.409.6630.061.274031.669.6741.331.274021.509.6731.171.474031.439.6741.101.474022.409.6732.072.869927.679.7937.46	Freq.LevelFactormentL1mltMHzdBuVdBdBuVdBuV0. 150034. 149. 5243. 6666. 000. 150023. 509. 5233. 0256. 000. 326033. 789. 5343. 3159. 550. 326022. 509. 5332. 0349. 551. 046030. 889. 6640. 5456. 001. 046020. 409. 6630. 0646. 001. 274031. 669. 6741. 3356. 001. 474031. 439. 6741. 1056. 001. 474022. 409. 6732. 0746. 002. 869927. 679. 7937. 4656. 00	Freq.LevelFactormentLimitMarginMHzdBuVdBdBuVdBuVdB0. 150034. 149. 5243. 6666. 00-22. 340. 150023. 509. 5233. 0256. 00-22. 980. 326033. 789. 5343. 3159. 55-16. 240. 326022. 509. 5332. 0349. 55-17. 521. 046030. 889. 6640. 5456. 00-15. 461. 046020. 409. 6630. 0646. 00-15. 941. 274031. 669. 6741. 3356. 00-14. 671. 274021. 509. 6731. 1746. 00-14. 831. 474031. 439. 6741. 1056. 00-14. 901. 474022. 409. 6732. 0746. 00-13. 932. 869927. 679. 7937. 4656. 00-18. 54



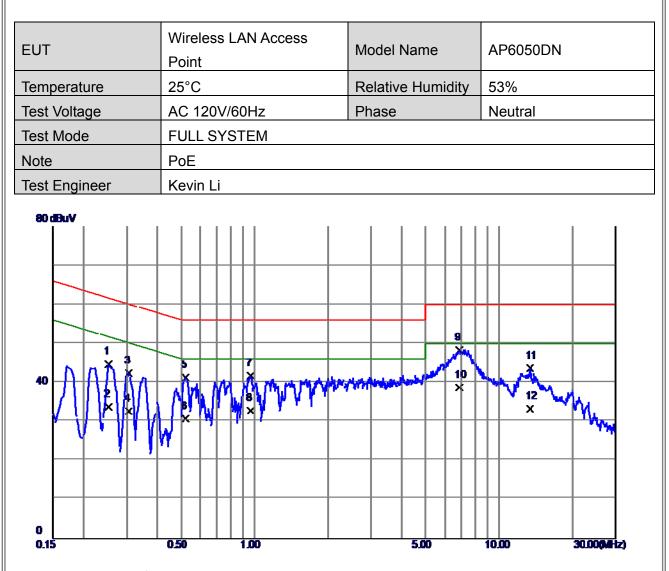




Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
MHz	dBuV	dB	dBuV	dBuV	dB	Detector
0.2540	34.95	9.53	44. 48	61.63	-17.15	QP
0.2540	24. 50	9.53	34.03	51. 63	-17.60	AVG
0.3020	32.81	9.53	42.34	60.19	-17.85	QP
0.3020	24. 20	9.53	33. 73	50.19	-16. 46	AVG
0. 5299	31.77	9.64	41.41	56. 00	-14. 59	QP
0. 5299	23.10	9.64	32.74	46.00	-13.26	AVG
0.9580	31.37	9.76	41.13	56. 00	-14.87	QP
0.9580	24. 20	9.76	33.96	46.00	-12.04	AVG
6.7980	37.81	10.13	47.94	60.00	-12.06	QP
6.7980	26.70	10.13	36.83	50.00	-13.17	AVG
12. 7940	32.41	10.29	42.70	60.00	-17. 30	QP
12. 7940	24.11	10.29	34.40	50.00	-15. 60	AVG
	MHz 0. 2540 0. 2540 0. 3020 0. 5299 0. 5299 0. 9580 0. 9580 6. 7980 6. 7980 12. 7940	Freq. Level MHz dBuV 0.2540 34.95 0.2540 24.50 0.3020 32.81 0.3020 24.20 0.5299 31.77 0.5299 23.10 0.9580 31.37 0.9580 24.20 6.7980 37.81	Freq. Level Factor MHz dBuV dB 0. 2540 34. 95 9. 53 0. 2540 24. 50 9. 53 0. 3020 32. 81 9. 53 0. 3020 24. 20 9. 53 0. 3020 24. 20 9. 53 0. 5299 31. 77 9. 64 0. 5299 23. 10 9. 64 0. 9580 31. 37 9. 76 0. 9580 24. 20 9. 76 6. 7980 37. 81 10. 13 12. 7940 32. 41 10. 29	Freq.LevelFactormentMHzdBuVdBdBuV0. 254034. 959. 5344. 480. 254024. 509. 5334. 030. 302032. 819. 5342. 340. 302024. 209. 5333. 730. 529931. 779. 6441. 410. 529923. 109. 6432. 740. 958031. 379. 7641. 130. 958024. 209. 7633. 966. 798037. 8110. 1347. 946. 798026. 7010. 1336. 8312. 794032. 4110. 2942. 70	Freq.LevelFactormentL1mitMHzdBuVdBdBuVdBuV0. 254034. 959. 5344. 4861. 630. 254024. 509. 5334. 0351. 630. 302032. 819. 5342. 3460. 190. 302024. 209. 5333. 7350. 190. 529931. 779. 6441. 4156. 000. 529923. 109. 6432. 7446. 000. 958031. 379. 7641. 1356. 000. 958024. 209. 7633. 9646. 006. 798037. 8110. 1347. 9460. 006. 798026. 7010. 1336. 8350. 0012. 794032. 4110. 2942. 7060. 00	Freq.LevelFactormentLimitMarginMHzdBuVdBdBuVdBuVdB0. 254034. 959. 5344. 4861. 63-17. 150. 254024. 509. 5334. 0351. 63-17. 600. 302032. 819. 5342. 3460. 19-17. 850. 302024. 209. 5333. 7350. 19-16. 460. 529931. 779. 6441. 4156. 00-14. 590. 529923. 109. 6432. 7446. 00-13. 260. 958031. 379. 7641. 1356. 00-14. 870. 958024. 209. 7633. 9646. 00-12. 046. 798037. 8110. 1347. 9460. 00-12. 066. 798026. 7010. 1336. 8350. 00-13. 1712. 794032. 4110. 2942. 7060. 00-17. 30



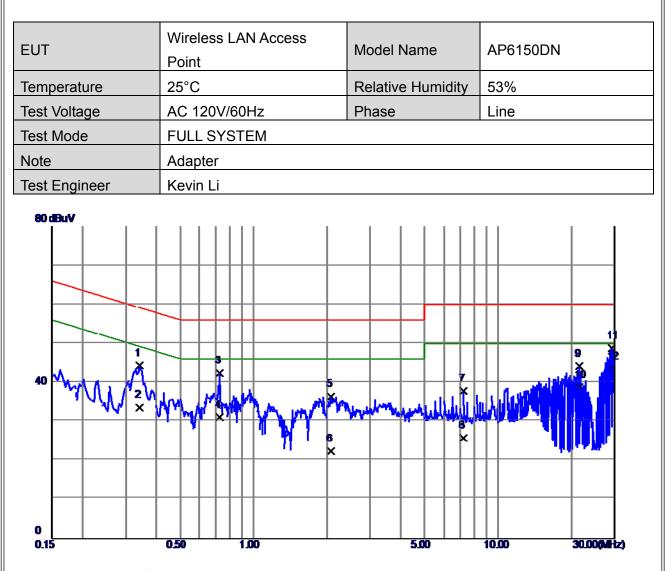




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.2540	35.19	9.53	44. 72	61.63	-16.91	QP
2	0.2540	24. 30	9.53	33.83	51.63	-17.80	AVG
3	0.3060	32.89	9.53	42.42	60.08	-17.66	QP
4	0.3060	23.10	9.53	32.63	50.0 8	-17.45	AVG
5	0. 5220	31.88	9.44	41. 32	56.00	-14.68	QP
6	0. 5220	21.30	9.44	30.74	46.00	-15.26	AVG
7	0.9660	32.06	9.66	41.72	56.00	-14.28	QP
8	0.9660	23. 10	9.66	32.76	46.00	-13.24	AVG
9	6.9020	38.44	9.95	48.39	60.00	-11.61	QP
10 *	6.9020	28.70	9.95	38.65	50.00	-11.35	AVG
11	13. 3580	33.27	10.34	43.61	60.00	-16. 39	QP
12	13. 3580	22.90	10.34	33. 24	50.00	-16. 76	AVG



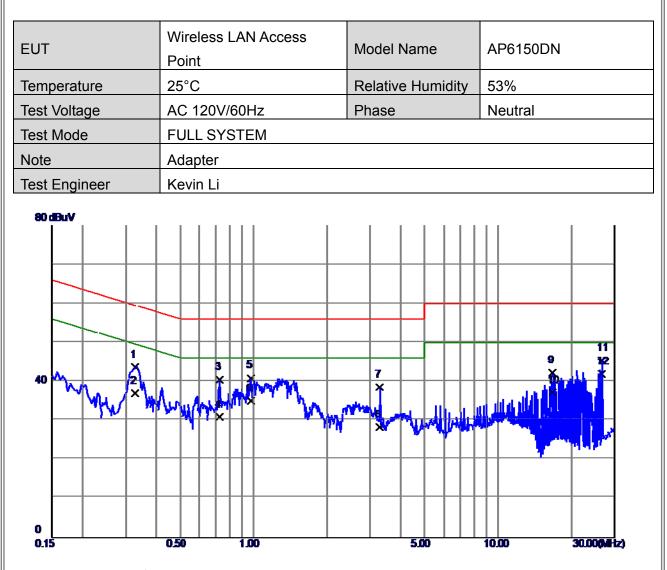




	Factor	ment	Limit	Margin	
lBuV	dB	dBuV	dBuV	dB	Detector
4.74	9. 53	44. 27	59.15	-14.88	QP
24. 10	9. 53	33. 63	49.15	-15. 52	AVG
32. 73	9.67	42. 40	56. 00	-13.60	QP
1.41	9.67	31. 08	46.00	-14. 92	AVG
6. 48	9. 92	36. 40	56. 00	-19.60	QP
2.45	9. 92	22. 37	46. 00	-23.63	AVG
27. 56	10.16	37.72	60. 00	-22. 28	QP
5. 60	10.16	25.76	50.00	-24. 24	AVG
3. 82	10.40	44. 22	60. 00	-15. 78	QP
28.40	10.40	38.80	50.00	-11. 20	AVG
8.49	10. 38	48. 87	60.00	-11. 13	QP
3. 10	10. 38	43. 48	50.00	-6. 52	AVG
	4. 74 4. 10 2. 73 1. 41 6. 48 2. 45 7. 56 5. 60 3. 82 8. 40 8. 49	4.74 9.53 4.10 9.53 2.73 9.67 1.41 9.67 6.48 9.92 2.45 9.92 7.56 10.16 5.60 10.16 3.82 10.40 8.40 10.40 8.49 10.38	4. 74 9. 53 44. 27 4. 10 9. 53 33. 63 2. 73 9. 67 42. 40 1. 41 9. 67 31. 08 6. 48 9. 92 36. 40 2. 45 9. 92 22. 37 7. 56 10. 16 37. 72 5. 60 10. 16 25. 76 3. 82 10. 40 44. 22 8. 40 10. 38 48. 87	4.74 9.53 44.27 59.15 4.10 9.53 33.63 49.15 2.73 9.67 42.40 56.00 1.41 9.67 31.08 46.00 6.48 9.92 36.40 56.00 2.45 9.92 22.37 46.00 7.56 10.16 37.72 60.00 5.60 10.16 25.76 50.00 3.82 10.40 44.22 60.00 8.40 10.38 48.87 60.00	4. 749. 5344. 2759. 15 $-14. 88$ 4. 109. 5333. 6349. 15 $-15. 52$ 2. 739. 6742. 4056. 00 $-13. 60$ 1. 419. 6731. 0846. 00 $-14. 92$ 6. 489. 9236. 4056. 00 $-19. 60$ 2. 459. 9222. 3746. 00 $-23. 63$ 7. 5610. 1637. 7260. 00 $-22. 28$ 5. 6010. 1625. 7650. 00 $-24. 24$ 3. 8210. 4044. 2260. 00 $-15. 78$ 8. 4010. 4038. 8050. 00 $-11. 20$ 8. 4910. 3848. 8760. 00 $-11. 13$



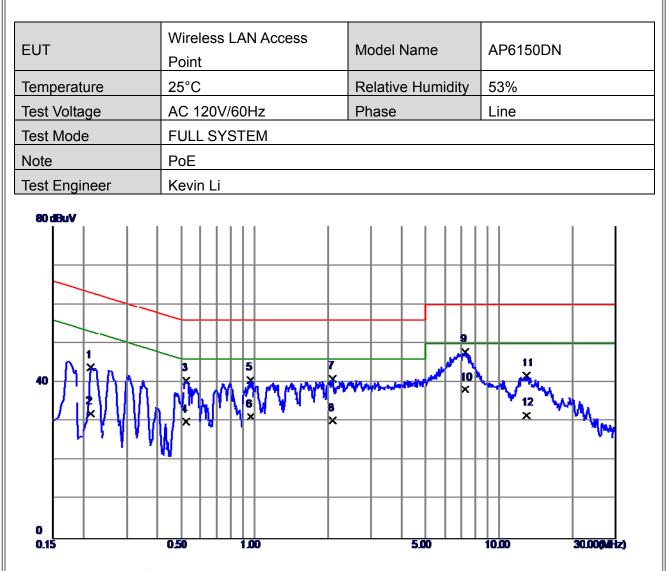




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.3287	34.16	9.53	43.69	59.48	-15. 79	QP
2	0.3287	27.40	9.53	36.93	49.48	-12.55	AVG
3	0.7247	30.97	9.47	40.44	56.00	-15.56	QP
4	0.7247	21. 40	9.47	30.87	46.00	-15. 13	AVG
5	0.9754	31.22	9.66	40.88	56.00	-15.12	QP
6	0.9754	25. 40	9.66	35.06	46.00	-10. 94	AVG
7	3.2856	28.70	9.82	38. 52	56.00	-17.48	QP
8	3.2856	18. 50	9.82	28.32	46.00	-17.68	AVG
9	16.6513	31.77	10. 41	42.18	60.00	-17.82	QP
10	16.6513	26.69	10. 41	37.10	50.00	-12 . 90	AVG
11	26. 5548	34.91	10. 55	45.46	60.00	-14. 54	QP
12 *	26. 5548	31. 30	10. 55	41.85	50.00	-8.15	AVG



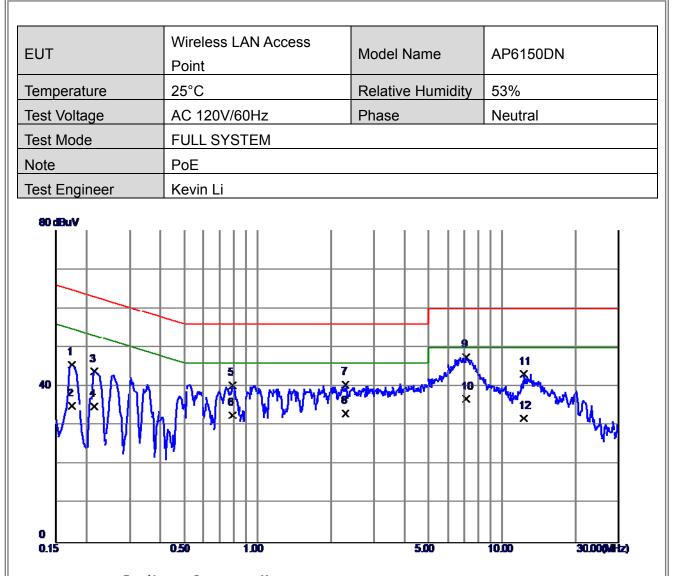




Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
MHz	dBuV	dB	dBuV	dBuV	dB	Detector
0.2140	34.24	9.53	43.77	63.05	-19.28	QP
0.2140	22. 40	9.53	31.93	53. 0 5	-21.12	AVG
0. 5260	30.85	9.64	40. 49	56.00	-15. 51	QP
0. 5260	20. 30	9.64	29.94	46.00	-16 . 0 6	AVG
0.9620	30.95	9.76	40.71	56.00	-15. 29	QP
0.9620	21. 40	9.76	31.16	46.00	-14.84	AVG
2.0860	30.97	9.92	40.89	56.00	-15.11	QP
2.0860	20. 30	9.92	30. 22	46.00	-15. 78	AVG
7.2700	37.74	10. 16	47.90	60.00	-12.10	QP
7.2700	28.00	10. 16	38.16	50.00	-11.84	AVG
12. 9540	31.44	10. 30	41.74	60.00	-18.26	QP
12. 9540	21.30	10. 30	31.60	50.00	-18. 40	AVG
	MHz 0. 2140 0. 2140 0. 5260 0. 5260 0. 9620 0. 9620 2. 0860 7. 2700 7. 2700 12. 9540	Freq. Level MHz dBuV 0.2140 34.24 0.2140 22.40 0.5260 30.85 0.5260 20.30 0.9620 30.95 0.9620 21.40 2.0860 30.97 2.0860 20.30 7.2700 37.74	Freq.LevelFactorMHzdBuVdB0. 214034. 249. 530. 214022. 409. 530. 526030. 859. 640. 526020. 309. 640. 962030. 959. 760. 962021. 409. 762. 086030. 979. 922. 086020. 309. 927. 270037. 7410. 167. 270028. 0010. 1612. 954031. 4410. 30	Freq.LevelFactormentMHzdBuVdBdBuV0.214034.249.5343.770.214022.409.5331.930.526030.859.6440.490.526020.309.6429.940.962030.959.7640.710.962021.409.7631.162.086030.979.9240.892.086020.309.9230.227.270037.7410.1647.907.270028.0010.1638.1612.954031.4410.3041.74	Freq.LevelFactormentL1m1tMHzdBuVdBdBuVdBuV0. 214034. 249. 5343. 7763. 050. 214022. 409. 5331. 9353. 050. 526030. 859. 6440. 4956. 000. 526020. 309. 6429. 9446. 000. 962030. 959. 7640. 7156. 000. 962021. 409. 7631. 1646. 002. 086030. 979. 9240. 8956. 002. 086020. 309. 9230. 2246. 007. 270037. 7410. 1647. 9060. 007. 270028. 0010. 1638. 1650. 0012. 954031. 4410. 3041. 7460. 00	Freq.LevelFactormentLimitMarginMHzdBuVdBdBuVdBuVdB0. 214034. 249. 5343. 7763. 05-19. 280. 214022. 409. 5331. 9353. 05-21. 120. 526030. 859. 6440. 4956. 00-15. 510. 526020. 309. 6429. 9446. 00-16. 060. 962030. 959. 7640. 7156. 00-15. 290. 962021. 409. 7631. 1646. 00-14. 842. 086030. 979. 9240. 8956. 00-15. 112. 086020. 309. 9230. 2246. 00-15. 787. 270037. 7410. 1647. 9060. 00-12. 107. 270028. 0010. 1638. 1650. 00-11. 8412. 954031. 4410. 3041. 7460. 00-18. 26







Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
MHz	dBuV	dB	dBuV	dBuV	dB	Detector
0.1740	36. 19	9.44	45.63	64.77	-19.14	QP
0.1740	25. 59	9.44	35.03	54.77	-19.74	AVG
0.2151	34.35	9. 53	43.88	63. 0 1	-19.13	QP
0.2151	25.40	9.53	34.93	53. 01	-18 . 0 8	AVG
0.7900	30. 73	9.54	40. 27	56.00	-15.73	QP
0.7900	23. 10	9.54	32.64	46.00	-13.36	AVG
2. 2940	30. 70	9.75	40. 45	56. 00	-15. 55	QP
2. 2940	23. 40	9.75	33.15	46.00	-12.85	AVG
7.1220	37.54	9.97	47.51	60.00	-12.49	QP
7.1220	26.89	9.97	36.86	50.00	-13. 14	AVG
12.2739	32.91	10.33	43.24	60.00	-16. 76	QP
12.2739	21. 50	10. 33	31.83	50.00	-18. 17	AVG
	MHz 0. 1740 0. 1740 0. 2151 0. 2151 0. 7900 0. 7900 2. 2940 2. 2940 7. 1220 7. 1220 12. 2739	Freq. Level MHz dBuV 0. 1740 36. 19 0. 1740 25. 59 0. 2151 34. 35 0. 2151 25. 40 0. 7900 30. 73 0. 7900 23. 10 2. 2940 30. 70 2. 2940 23. 40 7. 1220 37. 54	Freq. Level Factor MHz dBuV dB 0. 1740 36. 19 9. 44 0. 1740 25. 59 9. 44 0. 2151 34. 35 9. 53 0. 2151 25. 40 9. 53 0. 7900 30. 73 9. 54 0. 7900 23. 10 9. 54 2. 2940 30. 70 9. 75 2. 2940 23. 40 9. 75 7. 1220 37. 54 9. 97 12. 2739 32. 91 10. 33	Freq.LevelFactormentMHzdBuVdBdBuV0. 174036. 199. 4445. 630. 174025. 599. 4435. 030. 215134. 359. 5343. 880. 215125. 409. 5334. 930. 790030. 739. 5440. 270. 790023. 109. 5432. 642. 294030. 709. 7540. 452. 294023. 409. 7533. 157. 122037. 549. 9747. 517. 122026. 899. 9736. 8612. 273932. 9110. 3343. 24	Freq.LevelFactormentL1mltMHzdBuVdBdBuVdBuV0. 174036. 199. 4445. 6364. 770. 174025. 599. 4435. 0354. 770. 215134. 359. 5343. 8863. 010. 215125. 409. 5334. 9353. 010. 790030. 739. 5440. 2756. 000. 790023. 109. 5432. 6446. 002. 294030. 709. 7540. 4556. 002. 294023. 409. 7533. 1546. 007. 122037. 549. 9747. 5160. 007. 122026. 899. 9736. 8650. 0012. 273932. 9110. 3343. 2460. 00	Freq. Level Factor ment L1m1t Margin MHz dBuV dB dBuV dBuV dB 0.1740 36.19 9.44 45.63 64.77 -19.14 0.1740 25.59 9.44 35.03 54.77 -19.74 0.2151 34.35 9.53 43.88 63.01 -19.13 0.2151 25.40 9.53 34.93 53.01 -18.08 0.7900 30.73 9.54 40.27 56.00 -15.73 0.7900 23.10 9.54 32.64 46.00 -13.36 2.2940 30.70 9.75 40.45 56.00 -15.55 2.2940 23.40 9.75 33.15 46.00 -12.85 7.1220 37.54 9.97 47.51 60.00 -12.49 7.1220 26.89 9.97 36.86 50.00 -13.14 12.2739 32.91 10.33 43.24 60.00 -16.76



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

_	Class A	(at 10m)	Class B ₍ at 3m)			
Frequency (MHz)	(uV/m) Field strength	(dBuV/m) Field strength	(uV/m) Field strength	(dBuV/m) Field strength		
30 - 88	90	39	100	40		
88 - 216	150	43.5	150	43.5		
216 - 960	210	46.4	200	46		
Above 960	300	49.5	500	54		

Above 1 GHz

Measurement Method and Applied Limits:

ANSI	C63.4:

Frequency		Clas	Class B			
Frequency (MHz)	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to as following: FCC Part 15, Subpart B
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m).
 3m Emission level = 10m Emission level + 20log(10m/3m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value



4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 10, 2017
4	Test Cable	emci	LMR-400(30MHz-1GH z)	C-01	Jun. 27, 2017
5	Control	СТ	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Amplifier	Agilent	8449B	3008A02274	Oct. 31, 2017
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 10, 2017
10	Test Cable	emci	EMC104-SM-SM-100 00(1GHz-26.5GHz)	C-68	Jun. 27, 2017
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.



4.2.3 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item Block Diagram of system tested (please refer to 3.3).

Note:

For measurement of frequency 1GHz -30GHz, the EUT was set 3 meters away from the receiver antenna.

Emission level (dBuV/m)=20log Emission level (uV/m).

The limits above 26.5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1m

Distance extrapolation factor = 20 log (3m/1m) dB;

Limit line = specific limits (dBuV) + 9.5 dB.

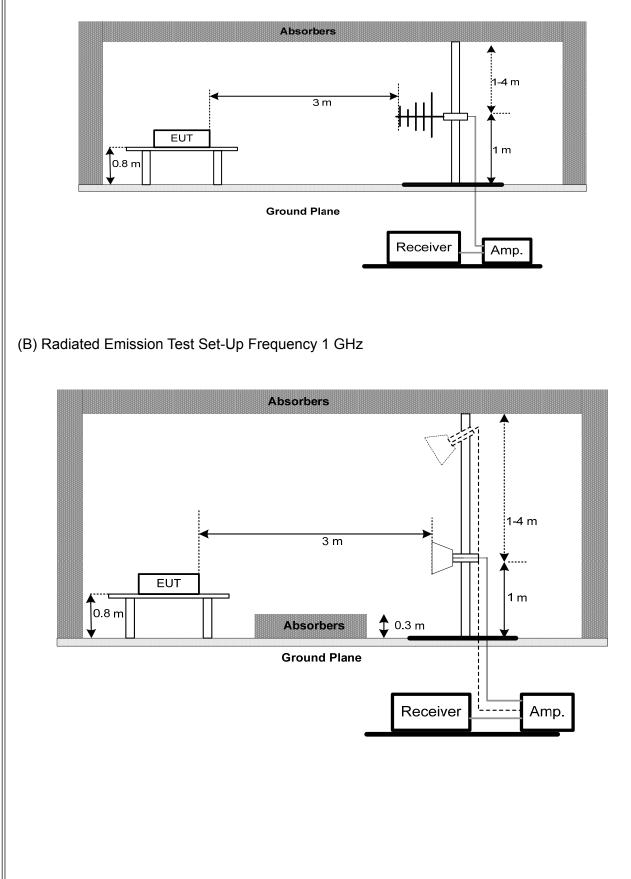
4.2.4 DEVIATION FROM TEST STANDARD

No deviation



4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz







4.2.6EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** unless otherwise a special operating condition is specified in the follows during the testing.

4.2.7 TEST RESULTS-BELOW 1GHZ

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz \circ
- (3) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ





UT	Wireless LAN Access Point	Model Name	AP6050DN	
Temperature	25°C	Relative Humidity	60%	
Test Voltage	AC 120V/60Hz	Polarization	Vertical	
Test Mode	FULL SYSTEM			
Note	Adapter			
Test Engineer	Kevin Li			
80 diBuWim				
0 30.00 127.00 224.	00 321.00 418.00 515.00	612.00 709.00 8	06.00 1000.00 Øditz)	

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1 *	58. 6150	49.21	-13.80	35.41	40.00	-4. 59	QP
2	107.1150	50.27	-1 4. 89	35. 38	43. 50	-8.12	QP
3	140. 0950	47.93	-13. 74	34.19	43. 50	-9.31	QP
4	173. 5600	47.23	-12.45	34. 78	43. 50	-8.72	QP
5	234.6700	48.56	-13. 56	35.00	46.00	-11.00	QP
6	420. 4250	38.85	-7.87	30. 98	46.00	-15 . 0 2	QP





EUT	Wireless LAN Access Point	Model Name	AP6050DN	
Temperature	25°C	Relative Humidity	60%	
Test Voltage	AC 120V/60Hz	Polarization	Horizontal	
Test Mode	FULL SYSTEM			
Note	Adapter			
Test Engineer	Kevin Li			
80 dBuV/m				
0 30.00 127.00 224.0	10 321.00 418.00 515.0	0 612.00 709.00 8	06.00 1000.00 (MHz)	

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	
1	143. 9750	37. 53	-13. 43	24.10	43. 50	-19.40	QP	
2	234.6700	36.19	-13. 56	22.63	46.00	-23. 37	QP	
3 *	286.0799	44. 38	-11. 56	32.82	46.00	-13. 18	QP	
4	337. 4900	37.09	-10. 95	26.14	46.00	-19.86	QP	
5	462.1350	33. 51	-8.42	25. 0 9	46.00	-20. 91	QP	
6	541. 1900	31.21	-5.45	25.76	46.00	-20.24	QP	





EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
80 dBuV/m			
			k u a
A WWW	M Margan Margan	adress and and	With the second of the second
<u> </u>			
0			
30.00 127.00 224.	00 321.00 418.00 515.0	0 612.00 709.00 8	06,00 1000,00 (MHz)

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	
1	33. 3950	50.64	-14.12	36. 52	40.00	-3.48	QP	
2 *	54. 2500	50.93	-13. 53	37.40	40.00	-2.60	QP	
3	128. 4550	45.43	-12. 52	32.91	43.50	-10. 59	QP	
4	173.0750	46. 52	-12. 43	34. 0 9	43. 50	-9. 41	QP	
5	234.6700	47.01	-13. 56	33. 45	46.00	-12.55	QP	
6	409.2700	39.84	-7.82	32. 0 2	46.00	-13. 98	QP	





Test Mode FULL SYSTEM Note PoE	EUT		Wireless Point	Wireless LAN Access Point			Model Name		AP6050DN	
Test Mode FULL SYSTEM Note PoE Test Engineer Kevin Li	Temperati	ure	25°C		Relati	ive Humic	dity	60%		
Note PoE Test Engineer Kevin Li 90 dBuV/im	Test Volta	ige	AC 120\	//60Hz		Polari	ization		Horizontal	
Test Engineer Kevin Li 80 dBuV/m	Test Mode	e	FULL SY	/STEM						
	Note		PoE							
	Test Engir	neer	Kevin Li							
	80 dBuVim	n								
	40				×		alkeenergelie	6 		
0 30.00 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00		Ŵ	~∩V	- WT						1000.00

	Margin	Limit	Measure ment	Correct Factor	Reading Level	Freq.	No.
Detector	dB	dBuV/m	dBuV/m	dB	dBuV/m	MHz	
QP	-12.42	40.00	27.58	-13. 53	41.11	54. 2500	1
QP	-17.03	43. 50	26.47	-12.23	38.70	169. 1950	2
QP	-13.95	46.00	32.05	-14. 20	46.25	250. 1900	3
QP	-8.61	46.00	37.39	-11.56	48.95	286.0799	4 *
QP	-11.97	46.00	34.03	-9.72	43.75	499. 9650	5
QP	-15. 03	46.00	30.97	-1.96	32. 93	750. 2250	6
 QP QP QP	-13. 95 -8. 61 -11. 97	46. 00 46. 00 46. 00	32. 05 37. 39 34. 03	-14. 20 -11. 56 -9. 72	46. 25 48. 95 43. 75	250. 1900 286. 0799 499. 9650	3 4 * 5





EUT	Wireless LAN Access Point	Model Name	AP6150DN		
Temperature	25°C	Relative Humidity 60%			
Test Voltage	AC 120V/60Hz	Polarization	Vertical		
Test Mode	FULL SYSTEM				
Note	Adapter				
Test Engineer	Kevin Li				
80 dBuVim					
0 30.00 127.00 224J	00 321.00 418.00 515.00	612.00 709.00 8	06.00 1000.00 (MHz)		

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1 *	56. 1900	49.45	-13.31	36.14	40.00	-3.86	QP
2	83.8350	47.97	-17.08	30.89	40.00	-9.11	QP
3	170. 1649	42.81	-12.25	30. 56	43. 50	-12.94	QP
4	228.8500	41.06	-13. 47	27.59	46.00	-18.41	QP
5	250. 1900	52.98	-14. 20	38.78	46.00	-7.22	QP
6	499.9650	42.96	-9.72	33. 24	46.00	-12.76	QP





UT	Wireless LAN Access Point	Model Name	AP6150DN		
emperature	25°C	Relative Humidity 60%			
est Voltage	AC 120V/60Hz	Polarization	Horizontal		
est Mode	FULL SYSTEM				
lote	Adapter				
est Engineer	Kevin Li				
80 dBuV/m					
		5 Xilon 100 5 Xilon 100 100 100 100 100 100 100 100 100 100			
0 30.00 127.00 224.0	0 321.00 418.00 515.00	612.00 709.00 8	06.00 1000.00		

						•	
Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	
205. 5700	36.94	-14. 55	22. 39	43. 50	-21.11	QP	
250. 1900	46. 58	-14. 20	32. 38	46.00	-13.62	QP	
307. 4200	34. 59	-10. 32	24.27	46.00	-21.73	QP	
358. 3450	38.63	-10.65	27.98	46.00	-18. 0 2	QP	
551. 3750	29.19	-4.61	24. 58	46.00	-21.42	QP	
890. 3900	33.71	1.89	35.60	46.00	-10. 40	QP	
	MHz 205. 5700 250. 1900 307. 4200 358. 3450 551. 3750	Freq. Level	Freq. Level Factor MHz dBuV/m dB 205.5700 36.94 -14.55 250.1900 46.58 -14.20 307.4200 34.59 -10.32 358.3450 38.63 -10.65 551.3750 29.19 -4.61	Freq. Level Factor ment MHz dBuV/m dB dBuV/m 205.5700 36.94 -14.55 22.39 250.1900 46.58 -14.20 32.38 307.4200 34.59 -10.32 24.27 358.3450 38.63 -10.65 27.98 551.3750 29.19 -4.61 24.58	Freq. Level Factor ment L1m1t MHz dBuV/m dB dBuV/m dBuV/m 205.5700 36.94 -14.55 22.39 43.50 250.1900 46.58 -14.20 32.38 46.00 307.4200 34.59 -10.32 24.27 46.00 358.3450 38.63 -10.65 27.98 46.00 551.3750 29.19 -4.61 24.58 46.00	Freq. Level Factor ment L1mit Margin MHz dBuV/m dB dBuV/m dBuV/m dB 205.5700 36.94 -14.55 22.39 43.50 -21.11 250.1900 46.58 -14.20 32.38 46.00 -13.62 307.4200 34.59 -10.32 24.27 46.00 -21.73 358.3450 38.63 -10.65 27.98 46.00 -18.02 551.3750 29.19 -4.61 24.58 46.00 -21.42	Freq. Level Factor ment L1mit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector 205.5700 36.94 -14.55 22.39 43.50 -21.11 QP 250.1900 46.58 -14.20 32.38 46.00 -13.62 QP 307.4200 34.59 -10.32 24.27 46.00 -21.73 QP 358.3450 38.63 -10.65 27.98 46.00 -18.02 QP 551.3750 29.19 -4.61 24.58 46.00 -21.42 QP





EUT	Wireless LAN Access Point	Model Name	AP6150DN		
Temperature	25°C	Relative Humidity 60%			
Test Voltage	AC 120V/60Hz	Polarization	Vertical		
Test Mode	FULL SYSTEM				
Note	PoE				
Test Engineer	Kevin Li				
80 dBuV/m					
40 4	5				
	J X 6		l. I. an a		
Minter	L. martin	with the second state of the second state state	and the second design of the s		
	" V				
0 30.00 127.00 224.J	00 321.00 418.00 515.00	612.00 709.00 8	06.00 1000.00 (MHz)		

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1 *	45. 5200	49.33	-12.60	36.73	40.00	-3.27	QP
2	80. 9250	46. 49	-16. 29	30. 20	40.00	-9.80	QP
3	129. 4250	42.68	-12.42	30.26	43.50	-13.24	QP
4	173. 5600	46.22	-12.45	33. 77	43. 50	-9.73	QP
5	250. 1900	52.77	-14. 20	38. 57	46.00	-7.43	QP
6	492. 6900	39.90	-9.47	30. 43	46.00	-15. 57	QP





EUT	Wireless LAN Acce Point	ss N	odel Name	A	AP6150DN		
Temperature	25°C	R	Relative Humidity 60%				
Test Voltage	AC 120V/60Hz	P	olarization	Н	orizontal		
Test Mode	FULL SYSTEM						
Note	PoE						
Test Engineer	Kevin Li						
90 dBuVim							
		6 6		للانتيارية			
0 30.00 127.00 224.	00 321.00 418.00	515.00 (12.00 709.00	0.808	0	1000.00 (MHz)	

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	46.9750	32.09	-12.73	19.36	40.00	-20.64	QP
2	174. 5300	38.25	-12. 51	25.74	43.50	-17.76	QP
3 *	250. 1900	49.83	-14. 20	35.63	46.00	-10. 37	QP
4	313. 7250	38.17	-10. 45	27.72	46.00	-18.28	QP
5	374.8350	37. 37	-9.51	27.86	46.00	-18.14	QP
6	489. 7800	37.69	-9.37	28.32	46.00	-17.68	QP



4.2.8 TEST RESULTS-ABOVE 1GHZ

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of [[]Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (3) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.





EUT		Wireless Point	LAN Access	Mode	Model Name		DN
Tempe	erature	25°C Relative Humidity					
Test Vo		AC 120V/	60Hz	Polar	ization	Vertical	
Test M	lode	FULL SY	STEM				
Note		Adapter					
Test Er	ngineer	Kevin Li					
80 dB u	uVim						
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0	00 1500.00 2000	0.00 2500.00	3000.00 3500	0.00 4000.0	0 4500.00	5000.00	

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1712. 5000	39. 32	-5.02	34. 30	74.00	-39.70	Peak
2	1712. 5000	27. 32	-5.02	22.30	54. 00	-31. 70	AVG
3	2257. 5000	39. 39	-1.87	37. 52	74.00	-36.48	Peak
4	2257. 5000	27.77	-1.87	25.90	54. 00	-28.10	AVG
5	3202. 5000	38.43	1.44	39.87	74.00	-34.13	Peak
6	3202. 5000	26.96	1.44	28.40	54.00	-25.60	AVG
7	3360. 0000	39. 23	1.38	40.61	74.00	-33. 39	Peak
8 *	3360. 0000	28.02	1.38	29.40	54.00	-24.60	AVG
9	4462. 5000	35. 52	3.44	38.96	74.00	-35.04	Peak
10	4462. 5000	23.96	3.44	27.40	54. 00	-26.60	AVG
11	4970. 0000	35.01	5.47	40.48	74.00	-33. 52	Peak
12	4970. 0000	23.63	5.47	29.10	54. 00	-24. 90	AVG





EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
80 dBuVim			
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No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1822. 5000	39.80	-4.18	35.62	74.00	-38.38	Peak
2	1822. 5000	26.28	-4.18	22.10	54. 00	-31.90	AVG
3	2822. 5000	37.93	0.64	38.57	74.00	-35.43	Peak
4	2822. 5000	26.06	0.64	26.70	54. 00	-27. 30	AVG
5	3270.0000	38.71	1.41	40.12	74.00	-33.88	Peak
6	3270.0000	27.99	1.41	29.40	54. 00	-24.60	AVG
7	4230.0000	35.71	3.19	38.90	74.00	-35.10	Peak
8	4230.0000	22. 51	3.19	25.70	54.00	-28.30	AVG
9	5140.0000	34.65	6.06	40.71	74.00	-33. 29	Peak
10	5140. 0000	23. 54	6.06	29.60	54. 00	-24. 40	AVG
11	5860. 0000	33.77	8. 50	42.27	74.00	-31. 73	Peak
12 *	5860. 0000	22.80	8. 50	31. 30	54. 00	-22. 70	AVG





EUT			Wireles Point	ss LAN A	ccess	Model	Name	AP6050D	N
Tem	perature		25°C			Relativ	e Humidity	60%	
	Voltage)V/60Hz		Polariz		Vertical	
	Mode		FULL S	SYSTEM				·	
Note	!		PoE						
Test	Engineer		Kevin l	i					
80 (dBuVim								
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100	0.00 1500.00	2000.	0 2500	00 3000	.00 3500.0	0 4000.00	4500.00	5000.00	6000.00 6MHz)

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1992. 5000	40.00	-2.88	37.12	74.00	-36.88	Peak
2	1992. 5000	29.28	-2.88	26.40	54. 00	-27.60	AVG
3	3202. 5000	39.09	1.44	40.53	74.00	-33. 47	Peak
4	3202. 5000	28.76	1.44	30.20	54.00	-23.80	AVG
5	3360. 0000	39.62	1.38	41.00	74.00	-33. 00	Peak
6 *	3360. 0000	31.42	1.38	32.80	54.00	-21. 20	AVG
7	4042. 5000	36. 32	2.99	39.31	74.00	-34.69	Peak
8	4042. 5000	25.31	2.99	28.30	54. 00	-25. 70	AVG
9	5132. 5000	34.45	6.03	40.48	74.00	-33. 52	Peak
10	5132. 5000	23. 37	6.03	29.40	54.00	-24.60	AVG
11	5807. 5000	34.71	8.31	43. 02	74.00	-30. 98	Peak
12	5807. 5000	22.19	8.31	30. 50	54.00	-23. 50	AVG
12	5807. 5000	22. 19	8. 31	30. 50	54.00	-23. 50	AVG





EUT	Wireless Point	S LAN Ac	cess	Model	Name	AP6050DN	١		
Temperature	25°C			Relativ	ve Humidity	60%	60%		
Fest Voltage	AC 120\	//60Hz		Polariz	zation	Horizontal			
Fest Mode	FULL SY	YSTEM							
Note	PoE								
Test Engineer	Kevin Li								
80 dBuVim									
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MHz dBuV/m dB dBuV/m dBuV/m dB Detector 1 1895.0000 38.55 -3.62 34.93 74.00 -39.07 Peak 2 1895.0000 27.32 -3.62 23.70 54.00 -30.30 AVG 3 2725.0000 37.91 0.15 38.06 74.00 -35.94 Peak 4 2725.0000 26.95 0.15 27.10 54.00 -26.90 AVG 5 3217.5000 36.86 1.44 38.30 74.00 -35.70 Peak 6 3217.5000 26.96 1.44 28.40 54.00 -25.60 AVG 7 4260.0000 35.36 3.23 38.59 74.00 -35.41 Peak	
2 1895.0000 27.32 -3.62 23.70 54.00 -30.30 AVG 3 2725.0000 37.91 0.15 38.06 74.00 -35.94 Peak 4 2725.0000 26.95 0.15 27.10 54.00 -26.90 AVG 5 3217.5000 36.86 1.44 38.30 74.00 -35.70 Peak 6 3217.5000 26.96 1.44 28.40 54.00 -25.60 AVG	
3 2725.0000 37.91 0.15 38.06 74.00 -35.94 Peak 4 2725.0000 26.95 0.15 27.10 54.00 -26.90 AVG 5 3217.5000 36.86 1.44 38.30 74.00 -35.70 Peak 6 3217.5000 26.96 1.44 28.40 54.00 -25.60 AVG	
4 2725.0000 26.95 0.15 27.10 54.00 -26.90 AVG 5 3217.5000 36.86 1.44 38.30 74.00 -35.70 Peak 6 3217.5000 26.96 1.44 28.40 54.00 -25.60 AVG	
5 3217. 5000 36. 86 1. 44 38. 30 74. 00 -35. 70 Peak 6 3217. 5000 26. 96 1. 44 28. 40 54. 00 -25. 60 AVG	
6 3217. 5000 26. 96 1. 44 28. 40 54. 00 -25. 60 AVG	
7 4260. 0000 35. 36 3. 23 38. 59 74. 00 -35. 41 Peak	
8 4260. 0000 24. 27 3. 23 27. 50 54. 00 -26. 50 AVG	
9 5185. 0000 34. 45 6. 20 40. 65 74. 00 -33. 35 Peak	
10 5185. 0000 23. 20 6. 20 29. 40 54. 00 -24. 60 AVG	
11 5952. 5000 34. 00 8. 82 42. 82 74. 00 -31. 18 Peak	
12 * 5952. 5000 23. 08 8. 82 31. 90 54. 00 -22. 10 AVG	





EUT			Wire Poin	less LAN A t	Access	Mode	l Name		AP6050D	N
Temp	perature		25°C	, ,		Relative Humidity			60%	
	Voltage			20V/60Hz			zation		Vertical	
						1 Ulan	2011011		Ventical	
Test	Mode		FUL	LSYSTEM						
Vote			PoE							
Test	Engineer		Kevi	nli						
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80 d	BuVim									
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- 1	0.00 7200.00	×	×		X 00.00 12000.0	0 13200.	00 14400	00 158	300.00	18000.00 (MHz)
	0.00 7200.00 Freq.	×) 8400 Rea	×	Correct	X 00.00 12000.0 Measure	0 13200. Limit	00 14400) Margin	00 158	300.00	
600	Freq.	X) 8400 Rea Let	X D.00 9 ading vel	Correct Factor	X 00.00 12000.0 Measure ment	Limit	Margin			
600 No.	Freq. MHz	X D 8400 Rea Lev dBu	X D.00 9 ading vel uV/m	Correct Factor	X 00.00 12000.0 Measure	Limit	Margin	00 156 Dete Peak	ector	
600 No.	Freq.	× 840 Rea Le ^o dBu 00 33.	X 0.00 9 ading vel uV/m .72	Correct Factor dB	X Measure ment dBuV/m	Limit dBuV/m	Margin dB	Dete	ector	
600 No.	Freq. MHz 7884.00	× 8400 Rea Le ^v dBu 00 33. 00 23.	2.00 9 ading vel uV/m .72 .47	Correct Factor dB 11.73	X Measure ment dBuV/m 45.45	Limit dBuV/m 74.00	Margin dB -28.55	Dete Peak	ector	
600 No. 1 2 3 4	Freq. MHz 7884.000 7884.000 8652.000 8652.000	× 8400 Rea Le ⁵ dBu 00 33. 00 23. 00 32. 00 32.	2000 9 ading vel 1V/m .72 .47 .60 .18	Correct Factor dB 11. 73 11. 73 13. 12 13. 12	X Measure ment dBuV/m 45.45 35.20 45.72 35.30	Limit dBuV/m 74.00 54.00 74.00 54.00	Margin dB -28.55 -18.80 -28.28 -18.70	Dete Peak AVG Peak AVG		
600 No. 1 2 3 4 5	Freq. MHz 7884.000 8652.000 8652.000 11628.00	× 8400 Rea Le ⁴ dBu 00 33. 00 23. 00 23. 00 32. 00 32. 00 22. 000 31.	2.000 9 ading vel 1V/m .72 .47 .60 .18 .98	Correct Factor dB 11. 73 11. 73 13. 12 13. 12 13. 12 15. 48	X Measure ment dBuV/m 45.45 35.20 45.72 35.30 47.46	Limit dBuV/m 74.00 54.00 74.00 54.00 74.00	Margin dB -28.55 -18.80 -28.28 -18.70 -26.54	Dete Peak AVG Peak AVG Peak		
600 No. 1 2 3 4 5 6	Freq. MHz 7884.000 8652.000 8652.000 11628.00 11628.00	× 8400 Rea Le ⁴ dBu 00 33. 00 23. 00 22. 00 31. 000 21.	X 0.00 9 ading vel V/m .72 .47 .60 .18 .98 .92	Correct Factor dB 11. 73 11. 73 13. 12 13. 12 13. 12 15. 48 15. 48	X Measure ment dBuV/m 45.45 35.20 45.72 35.30 47.46 37.40	Limit dBuV/m 74.00 54.00 74.00 54.00 74.00 54.00	Margin dB -28.55 -18.80 -28.28 -18.70 -26.54 -16.60	Dete Peak AVG Peak AVG Peak AVG		
600	Freq. MHz 7884.000 8652.000 8652.000 11628.00	× 8400 Rea Le ⁴ 00 33. 00 23. 00 23. 00 22. 00 31. 000 21. 000 31.	X 0.00 9 ading vel vV/m 72 47 60 18 98 92 35	Correct Factor dB 11. 73 11. 73 13. 12 13. 12 13. 12 15. 48	X Measure ment dBuV/m 45.45 35.20 45.72 35.30 47.46	Limit dBuV/m 74.00 54.00 74.00 54.00 74.00	Margin dB -28.55 -18.80 -28.28 -18.70 -26.54	Dete Peak AVG Peak AVG Peak		

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15348. 0000 24. 00

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-12.10

-19.60

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Peak

AVG

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AVG

9

10





EUT		Wire Poin	less LAN A t	Access	Mode	l Name	ļ	AP6050[ON
Temp	perature	25°C	;		Relati	Relative Humidity			
Test \	Voltage	AC 1	20V/60Hz			zation		Horizonta	al
	Mode		SYSTEM						
Note			PoE						
Test I	Engineer	Kevi	n Li						
80 d	BuVim	I	I					I	
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	_	Reading	Correct	Measure					•
No.	Freq.	Level	Factor	ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m			Detec	tor	
1		34. 37	10.88	45.25	74.00	-28.75	Peak		
2		24.22	10.88	35.10	54.00	-18.90	AVG		
3 4		32.53	13. 17 13. 17	45.70 35.20	74.00 54.00	-28.30 -18.80	Peak AVG		
4 5	8718.0000 10866.0000		15. 76	47.74	74.00	-26.26	Peak		
6	10866. 0000		15.76	37. 50	54.00	-16. 50	AVG		
7	14172. 0000		21. 36	52.42	74.00	-21. 58	Peak		
8 *	14172. 0000		21.36	43.10	54.00	-10. 90	AVG		
9	16728. 0000		19.00	52. 18	74.00	-21.82	Peak		
10	16728 0000		10 00	41 90	54 00	-12 10	AVG		

16728.0000 22.90

17220.0000 32.76

17220.0000 21.15

10

11

12

19.00

21.05

21.05

41.90

53.81

42.20

54.00

74.00

54.00

AVG

Peak

AVG

-12.10

-20. 19

-11.80





EUT			Wirele Point	ess LAN A	Access	Mode	el Name		AP6050	DN
Temp	erature		25°C			Relat	ive Humi	dity	60%	
Test V	Voltage		AC 12	20V/60Hz		Polar	ization		Vertical	
Test I	Mode		FULL	SYSTEM						
Note			PoE							
Test I	Engineer		Kevin	Li						
100 c	dBuV/m		I	I			I		I	
50	1 2 X		3 3 4 X		5 	ne ne faire de la compañsione	7 X 8 X	9 •**• 10 ×		11 12 X
0 1800	00.00 18850.00 Freq.		ding	50.00 214 Correct Factor	00.00 22250. Measure ment	00 23100 Limit	.00 23950 Margin	.00 2	4800.00	28500.00 (MIHz)
	MHz	dBu	V/m	dB	dBuV/m	dBuV/m			ector	
1	18450. 50			16.81	53.83	83.50	-29.67	Pea		

		Level	Factor	ment			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	18450. 5000	37. 02	16.81	53.83	83. 50	-29.67	Peak
2	18450. 5000	26.80	16.81	43.61	63. 50	-19.89	AVG
3	20176.0000	41.15	15 . 9 1	57.06	83. 50	-26.44	Peak
4	20176.0000	31. 20	15.91	47.11	63. 50	-16. 39	AVG
5	22131.0000	41.29	18.87	60.16	83. 50	-23. 34	Peak
6	22131.0000	31. 50	18.87	50. 37	63. 50	-13. 13	AVG
7	23159. 5000	41.80	19.65	61.45	83. 50	-22. 05	Peak
8	23159. 5000	31.19	19.65	50.84	63. 50	-12.66	AVG
9	24162. 5000	43.77	19.27	63. 04	83. 50	-20.46	Peak
10 *	24162. 5000	34.60	19.27	53. 87	63. 50	-9.63	AVG
11	25879. 5000	42.26	20.74	63.00	83. 50	-20. 50	Peak
12	25879. 5000	32. 40	20.74	53.14	63. 50	-10. 36	AVG





EUT			Wire Poin		_AN A	ccess	Mode	l Name		AP6050DN	
Temp	perature		25°0	2			Relati	ve Humi	dity	60%	
Test \	Voltage		AC [·]	120V/	60Hz		Polari	zation		Horizor	ntal
Test I	Mode		FUL	LSYS	STEM						
Note			PoE	PoE							
Test I	Engineer		Kevi	Kevin Li							
100.4	dBuV/m										
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No.	Freq.	Lev	el	Fac		ment	Limit	Margin	D ·		
	MHz	dBu	v/m	dB		dBuV/m	dBuV/m	dB	Det	ector	

NO.	Freq.	Leve1	Factor	ment	LIMIU	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	18697.0000	37.25	16.69	53.94	83. 50	-29.56	Peak
2	18697.0000	26.31	16.69	43.00	63. 50	-20. 50	AVG
3	19581.0000	41.12	16.81	57.93	83. 50	-25. 57	Peak
4	19581.0000	31.00	16.81	47.81	63.50	-15.69	AVG
5	20966. 5000	40.77	17.33	58. 10	83. 50	-25. 40	Peak
6	20966. 5000	29.60	17.33	46.93	63. 50	-16. 57	AVG
7	21910. 0000	41.46	18.73	60.19	83. 50	-23.31	Peak
8	21910. 0000	32.09	18.73	50.82	63. 50	-12.68	AVG
9	23627.0000	40.48	19.80	60.28	83. 50	-23.22	Peak
10	23627.0000	30. 40	19.80	50.20	63. 50	-13. 30	AVG
11	25624. 5000	41.20	21.15	62.35	83. 50	-21.15	Peak
12 *	25624. 5000	31.43	21.15	52. 58	63.50	-10.92	AVG





EUT			Wireles Point	ss LAN Access	Model Name	AP6050DN			
Tem	perature		25°C		Relative Humidity	60%			
Test	Voltage		AC 120	0V/60Hz	Polarization	Vertical			
Test	Mode		FULL S	SYSTEM					
Note	:		PoE						
Test	Enginee	r	Kevin I	Kevin Li					
100	dBuV/m								
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26	00.0026850	0.00 27.	200.00 275	50.00 27900.00 28250	.00 29600.00 29950.00	29300.00 30000.00 (NHz)			

No.	Freq.	Level	Factor	measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	26920. 5430	48. 57	4.07	52.64	83. 50	-30.86	Peak
2	26920. 5430	38.62	4.07	42.69	63. 50	-20.81	AVG
3	27341.0850	50. 61	3.10	53.71	83. 50	-29.79	Peak
4	27341.0850	40. 23	3.10	43. 33	63. 5 0	-20.17	AVG
5	27734. 4960	52.84	3.46	56. 30	83. 50	-27. 20	Peak
6	27734. 4960	41.02	3.46	44. 48	63. 50	-19.02	AVG
7	28480. 6200	51.29	4.91	56.20	83. 50	-27. 30	Peak
8	28480. 6200	41.35	4.91	46.26	63. 50	-17.24	AVG
9	28901.1630	53. 58	5.42	59.00	83. 50	-24. 50	Peak
10	28901.1630	42.94	5.42	48.36	63. 50	-15.14	AVG
11	29294. 5730	53.85	5.79	59.64	83. 50	-23.86	Peak
12 *	29294. 5730	43.05	5.79	48.84	63. 50	-14.66	AVG





Test Voltage AC 120V/60Hz Polarization Horizontal Test Mode FULL SYSTEM PoE Note PoE PoE Test Engineer Kevin Li Image: Comparison of the system of the s	EUT	Wireless LAN Access Point	Model Name	AP6050DN	
Test Mode FULL SYSTEM Note PoE Test Engineer Kevin Li 100 dBu//m	Temperature	25°C	Relative Humidity	60%	
Note PoE Test Engineer Kevin Li 100 dBuV/m	Test Voltage	AC 120V/60Hz	Polarization	Horizontal	
Test Engineer Kevin Li 100 dBuV/m	Test Mode	FULL SYSTEM			
100 dBuV/m 100 dBuV/m 50 1 3 5 7 9 11 1 3 5 7 9 11 1 2 X X X X X X 0 2 X X X X X X X 0 2850.00 2720.00 2750.00 27900.00 28250.00 2880.00 2830.00 23300.00 3000	Note	PoE			
50	Test Engineer	Kevin Li			
50 1 2 2 X X X X X X X X X X X X X	100 dBuV/m				
26500.0026850.00 27200.00 27550.00 27900.00 26250.00 26600.00 26950.00 29300.00 30000	50 2			X,	
No. Freq. Reading Correct Measure Limit Margin	26500.00 26850.00 2720			9300.00 30000.00 (MHz)	

No.	Freq.	Level	Factor	measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	27001. 9380	48.33	4.12	52.45	83. 50	-31.05	Peak
2	27001. 9380	37.92	4.12	42.04	63. 50	-21.46	AVG
3	27531.0080	53.83	2.73	56. 56	83. 50	-26.94	Peak
4	27531.0080	43.26	2.73	45.99	63. 50	-17.51	AVG
5	27910.8530	52.37	4.09	56.46	83. 50	-27.04	Peak
6	27910.8530	42.91	4.09	47.00	63. 50	-16. 50	AVG
7	28751. 9380	51.39	5.24	56.63	83. 50	-26.87	Peak
8	28751. 9380	42. 02	5.24	47.26	63. 50	-16.24	AVG
9	29199.6120	52. 03	5.71	57.74	83. 50	-25.76	Peak
10 *	29199.6120	41.90	5.71	47.61	63. 50	-15.89	AVG
11	29810.0770	50.69	6.97	57.66	83. 50	-25.84	Peak
12	29810.0770	40. 22	6.97	47.19	63. 50	-16. 31	AVG





EUT	Wireless LAN Ac Point	ccess	Model I	Name	AP6150DN		
Temperature	25°C		Relative	e Humidity	60%		
Test Voltage	AC 120V/60Hz		Polariza	ation	Vertical		
Test Mode	FULL SYSTEM						
Note	Adapter	Adapter					
Test Engineer	Kevin Li						
80 dBuVim							
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Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin	
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1262. 5000	40. 62	-7.26	33.36	74.00	-40.64	Peak
1262. 5000	28.56	-7.26	21.30	54.00	-32. 70	AVG
1932. 5000	40.11	-3.34	36.77	74.00	-37.23	Peak
1932. 5000	28.14	-3.34	24.80	54.00	-29. 20	AVG
2662. 5000	37.83	-0.16	37.67	74.00	-36. 33	Peak
2662. 5000	25.19	-0.16	25.03	54.00	-28.97	AVG
3202. 5000	39. 20	1.44	40.64	74.00	-33. 36	Peak
3202. 5000	28.06	1.44	29. 50	54.00	-24. 50	AVG
3932. 5000	35.80	2.73	38. 53	74.00	-35.47	Peak
3932. 5000	24.05	2.73	26.78	54.00	-27.22	AVG
5452. 5000	34.82	7.08	41.90	74.00	-32.10	Peak
5452. 5000	23. 54	7.08	30.62	54.00	-23. 38	AVG
	MHz 1262. 5000 1932. 5000 1932. 5000 2662. 5000 2662. 5000 3202. 5000 3202. 5000 3932. 5000 3932. 5000 5452. 5000	Level MHz dBuV/m 1262. 5000 40. 62 1262. 5000 28. 56 1932. 5000 40. 11 1932. 5000 28. 14 2662. 5000 37. 83 2662. 5000 25. 19 3202. 5000 28. 06 3932. 5000 35. 80 3932. 5000 24. 05 5452. 5000 34. 82	Hz BuV/m dB 1262.5000 40.62 -7.26 1262.5000 28.56 -7.26 1932.5000 40.11 -3.34 1932.5000 28.14 -3.34 2662.5000 25.19 -0.16 2662.5000 25.19 -0.16 3202.5000 28.06 1.44 3932.5000 28.06 2.73 3932.5000 24.05 2.73 5452.5000 34.82 7.08	MHz dBuV/m dB dBuV/m 1262.5000 40.62 -7.26 33.36 1262.5000 28.56 -7.26 21.30 1932.5000 40.11 -3.34 36.77 1932.5000 28.14 -3.34 24.80 2662.5000 37.83 -0.16 37.67 2662.5000 25.19 -0.16 25.03 3202.5000 28.06 1.44 40.64 3202.5000 28.06 1.44 29.50 3932.5000 24.05 2.73 38.53 3932.5000 24.05 2.73 26.78 5452.5000 34.82 7.08 41.90	Hz Hactor ment MHz dBuV/m dB dBuV/m dBuV/m 1262.5000 40.62 -7.26 33.36 74.00 1262.5000 28.56 -7.26 21.30 54.00 1932.5000 40.11 -3.34 36.77 74.00 1932.5000 28.14 -3.34 24.80 54.00 2662.5000 37.83 -0.16 37.67 74.00 2662.5000 25.19 -0.16 25.03 54.00 2662.5000 39.20 1.44 40.64 74.00 3202.5000 28.06 1.44 29.50 54.00 3932.5000 28.06 1.44 29.50 54.00 3932.5000 24.05 2.73 38.53 74.00 3932.5000 24.05 2.73 26.78 54.00 5452.5000 34.82 7.08 41.90 74.00	Hevel Factor ment Generation MHz dBuV/m dB dBuV/m dB dBuV/m dB 1262.5000 40.62 -7.26 33.36 74.00 -40.64 1262.5000 28.56 -7.26 21.30 54.00 -32.70 1932.5000 40.11 -3.34 36.77 74.00 -37.23 1932.5000 28.14 -3.34 24.80 54.00 -29.20 2662.5000 37.83 -0.16 37.67 74.00 -36.33 2662.5000 25.19 -0.16 25.03 54.00 -28.97 3202.5000 39.20 1.44 40.64 74.00 -33.36 3202.5000 28.06 1.44 29.50 54.00 -24.50 3932.5000 35.80 2.73 38.53 74.00 -35.47 3932.5000 24.05 2.73 26.78 54.00 -27.22 5452.5000 34.82 7.08 41.90 74.00 -





EUT	Wireless LAN Point	Access	Model Na	ame	AP6150DN		
Temperature	25°C		Relative	Humidity	60%		
Test Voltage	AC 120V/60H	Z	Polarizat		Horizontal		
Test Mode	FULL SYSTEM	N					
Note	Adapter	Adapter					
Test Engineer	Kevin Li	Kevin Li					
80 dBuVim							
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No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1967. 5000	38.61	-3.07	35.54	74.00	-38.46	Peak
2	1967. 5000	27.47	-3.07	24.40	54. 00	-29.60	AVG
3	2770.0000	37. 55	0.38	37.93	74.00	-36.07	Peak
4	2770. 0000	25.42	0.38	25.80	54. 00	-28.20	AVG
5	3152. 5000	38.35	1.46	39.81	74.00	-34. 19	Peak
6	3152. 5000	27.84	1.46	29.30	54. 00	-24. 70	AVG
7	4000. 0000	35.95	2.95	38.90	74.00	-35.10	Peak
8	4000. 0000	24.15	2.95	27.10	54.00	-26.90	AVG
9	4552. 5000	35.36	3.70	39.06	74.00	-34.94	Peak
10	4552. 5000	24.40	3. 70	28.10	54. 00	-25. 90	AVG
11	5317. 5000	34.41	6.63	41.04	74.00	-32.96	Peak
12 *	5317. 5000	23. 57	6.63	30.20	54. 00	-23.80	AVG





EUT	Wireless LAN Access Point	Model Name	AP6150DN				
Temperature	25°C	Relative Humidity	60%				
Test Voltage	AC 120V/60Hz	Polarization	Vertical				
Test Mode	FULL SYSTEM						
Note	PoE						
Test Engineer	Kevin Li						
80 dBuVim							
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No.	Freq.	Level	Factor	measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1990. 0000	39.12	-2.90	36.22	74.00	-37.78	Peak
2	1990. 0000	29.00	-2.90	26.10	54. 00	-27.90	AVG
3	2957. 5000	36.99	1.32	38.31	74.00	-35.69	Peak
4	2957. 5000	25.48	1. 32	26.80	54. 00	-27.20	AVG
5	3202. 5000	38.46	1.44	39.90	74.00	-34. 10	Peak
6	3202. 5000	27.96	1.44	29.40	54.00	-24.60	AVG
7	4310.0000	36.01	3.28	39.29	74.00	-34.71	Peak
8	4310.0000	27. 52	3.28	30.80	54.00	-23. 20	AVG
9	4920.0000	35.00	5.26	40.26	74.00	-33. 74	Peak
10	4920.0000	24.94	5.26	30. 20	54.00	-23.80	AVG
11	5855. 0000	34.20	8.48	42.68	74.00	-31.32	Peak
12 *	5855. 0000	24.02	8.48	32. 50	54. 00	-21. 50	AVG





EUT	Wireles Point	s LAN Ac	cess	Model N	Name	AP6150[ON		
Temperature	25°C			Relative	e Humidity	60%			
Test Voltage	AC 120	V/60Hz		Polariza	ation	Horizonta	al		
Test Mode	FULL S	ULL SYSTEM							
Note	PoE	оЕ							
Test Engineer	Kevin L	i							
80 dBuV/m									
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MHz dBuV/m dB dBuV/m dBuV/m dB Detector 1 1210.0000 41.37 -7.39 33.98 74.00 -40.02 Peak 2 1210.0000 30.49 -7.39 23.10 54.00 -30.90 AVG 3 2195.0000 38.94 -2.10 36.84 74.00 -37.16 Peak 4 2195.0000 27.30 -2.10 25.20 54.00 -28.80 AVG 5 2725.0000 39.32 0.15 39.47 74.00 -34.53 Peak 6 2725.0000 28.05 0.15 28.20 54.00 -25.80 AVG 7 3360.0000 38.99 1.38 40.37 74.00 -33.63 Peak 8 3360.0000 27.42 1.38 28.80 54.00 -25.20 AVG	
2 1210.0000 30.49 -7.39 23.10 54.00 -30.90 AVG 3 2195.0000 38.94 -2.10 36.84 74.00 -37.16 Peak 4 2195.0000 27.30 -2.10 25.20 54.00 -28.80 AVG 5 2725.0000 39.32 0.15 39.47 74.00 -34.53 Peak 6 2725.0000 28.05 0.15 28.20 54.00 -25.80 AVG 7 3360.0000 38.99 1.38 40.37 74.00 -33.63 Peak	
3 2195.0000 38.94 -2.10 36.84 74.00 -37.16 Peak 4 2195.0000 27.30 -2.10 25.20 54.00 -28.80 AVG 5 2725.0000 39.32 0.15 39.47 74.00 -34.53 Peak 6 2725.0000 28.05 0.15 28.20 54.00 -25.80 AVG 7 3360.0000 38.99 1.38 40.37 74.00 -33.63 Peak	
4 2195.0000 27.30 -2.10 25.20 54.00 -28.80 AVG 5 2725.0000 39.32 0.15 39.47 74.00 -34.53 Peak 6 2725.0000 28.05 0.15 28.20 54.00 -25.80 AVG 7 3360.0000 38.99 1.38 40.37 74.00 -33.63 Peak	
5 2725.0000 39.32 0.15 39.47 74.00 -34.53 Peak 6 2725.0000 28.05 0.15 28.20 54.00 -25.80 AVG 7 3360.0000 38.99 1.38 40.37 74.00 -33.63 Peak	
6 2725.0000 28.05 0.15 28.20 54.00 -25.80 AVG 7 3360.0000 38.99 1.38 40.37 74.00 -33.63 Peak	
7 3360. 0000 38. 99 1. 38 40. 37 74. 00 -33. 63 Peak	
8 3360. 0000 27. 42 1. 38 28. 80 54. 00 -25. 20 AVG	
9 3990. 0000 35. 98 2. 92 38. 90 74. 00 -35. 10 Peak	
10 3990. 0000 24. 48 2. 92 27. 40 54. 00 -26. 60 AVG	
11 4995. 0000 34. 45 5. 58 40. 03 74. 00 -33. 97 Peak	
12 * 4995. 0000 23. 32 5. 58 28. 90 54. 00 -25. 10 AVG	





EUT		Wire Point	ess LAN A	ccess	Mode	I Name	AP61	50DN
Temp	perature	25°C			Relati	ive Humidi	ty 60%	
	Voltage	AC 1	20V/60Hz			ization	Vertica	al
	Mode		SYSTEM					
Note		PoE						
	Engineer	Kevir	n Li					
80 d	EbuVim	3 4 ×		5 2 3 3 4 5 5 5 6 5 7 6 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8		7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9 11 9 12 10 X 10 X
	0.00 7200.00	8400.00 9 Reading	00.00 1080 Correct	0.00 12000. Measure) 15600,00	18000.00 (MiHz)
No.	Freq. MHz	Level dBuV/m	Factor dB	ment dBuV/m	Limit dBuV/m	Margin dB	Detector	
1	7128. 0000	33.66	11. 01	44. 67	74. 00	-29. 33	Peak	
2	7128. 0000	24. 19	11.01	35. 20	54.00	-18.80	AVG	
3	8790.0000	32.94	13.22	46.16	74.00	-27.84	Peak	
4	8790.0000	23.98	13. 22 15. 79	37. 20 47. 23	54.00 74.00	-16.80	AVG	
-	Invan nnnn		10 (9	41.23	(4.00	-26. 77	Peak	
5	10890.0000							
5 6 7	10890.0000 10890.0000 14406.0000	23.41	15. 79 20. 72	39. 20 52. 59	54.00 74.00	-14. 80 -21. 41	AVG Peak	

14406.0000 22.88

16680.0000 33.70

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-21. 52

-10.20

-18.61

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AVG

Peak

AVG

Peak

AVG





EUT		Wir Poi	reless LAN int	Access	Mode	l Name	AF	26150D	N
Temp	perature	25°	°C		Relati	Relative Humidity			
	Voltage	AC	: 120V/60H	7	Polari			orizontal	
					1 Oldri	201011		112011101	
lest	Mode	FU	LL SYSTEM	/I					
Note		Po	E						
Test I	Engineer	Ke	vin Li						
10001	Ligineer								
80 d	BuVim								
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- 1	0.00 7200.00	8400.00	9600.00 10	800.00 12000	.00 13200.	00 14400.00	0 15800.	00	18000.00 (MiHz)
600		Reading	correct	Measure			0 15800.	00	
- 1	Freq.	Reading Level	g Correct Factor	Measure ment	Limit	Margin			
600	Freq. MHz	Reading Level dBuV/m	correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detect		
600	Freq. MHz 8262.0000	Reading Level dBuV/m 32.90	g Correct Factor dB 12.39	Measure ment dBuV/m 45.29	Limit dBuV/m 74.00	Margin dB -28.71	Detecto Peak		
6001 No.	Freq. MHz 8262.0000 8262.0000	Reading Level dBuV/m 32.90 24.31	correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detect		
6001 No.	Freq. MHz 8262.0000	Reading Level dBuV/m 32.90 24.31 31.64	Correct Factor dB 12.39 12.39	Measure ment dBuV/m 45.29 36.70	Limit dBuV/m 74.00 54.00	Margin dB -28.71 -17.30	Detecto Peak AVG		
8001 No. 1 2 3 4 5	Freq. MHz 8262.0000 8262.0000 10890.0000 10890.0000 12702.0000	Reading Level dBuV/m 32. 90 24. 31 31. 64 22. 61 31. 29	Correct Factor dB 12. 39 12. 39 15. 79 15. 79 17. 14	Measure ment dBuV/m 45.29 36.70 47.43 38.40 48.43	Limit dBuV/m 74.00 54.00 74.00 54.00 74.00	Margin dB -28.71 -17.30 -26.57 -15.60 -25.57	Detecto Peak AVG Peak AVG Peak		
8001 No. 1 2 3 4 5 6	Freq. MHz 8262.0000 8262.0000 10890.0000 10890.0000 12702.0000 12702.0000	Reading Level dBuV/m 32. 90 24. 31 31. 64 22. 61 31. 29 22. 66	Correct Factor dB 12. 39 12. 39 15. 79 15. 79 15. 79 17. 14 17. 14	Measure ment dBuV/m 45.29 36.70 47.43 38.40 48.43 39.80	Limit dBuV/m 74.00 54.00 74.00 54.00 74.00 54.00 54.00	Margin dB -28.71 -17.30 -26.57 -15.60 -25.57 -14.20	Detecto Peak AVG Peak AVG Peak AVG		
8000 No. 1 2 3 4 5	Freq. MHz 8262.0000 8262.0000 10890.0000 10890.0000 12702.0000	Reading Level dBuV/m 32. 90 24. 31 31. 64 22. 61 31. 29 22. 66 30. 91	Correct Factor dB 12. 39 12. 39 15. 79 15. 79 17. 14	Measure ment dBuV/m 45.29 36.70 47.43 38.40 48.43	Limit dBuV/m 74.00 54.00 74.00 54.00 74.00	Margin dB -28.71 -17.30 -26.57 -15.60 -25.57	Detecto Peak AVG Peak AVG Peak		

16206.0000 33.29

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-19. 20

-8.80

Peak

AVG

Peak

AVG

9

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EUT			Wire Poir		AN Acce	SS	Mode	l Name		AP6150DI	N
Temp	erature		25°(С			Relat	Relative Humidity 6			
Test \	/oltage		AC	AC 120V/60Hz			Polar	ization		Vertical	
Test N	Mode		FUL	L SYST	ΓEM						
Note			PoE								
Test E	Engineer		Kev	in Li							
100 d	BuV/m										
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N	Para	Rea	ding	Corre	ct Me	asure	1	N			
No.	Freq.	Lev	re1	Facto	or me	nt	Limit	Margin			
1	MHz 19292.00	dBu		dB 16.82		uV/m . 74	dBuV/m 83.50	dB -24.76	Det Pea	ector k	
1 2	19292.00			16. 82		. 74	63. 50	-14.66	AVG		

	MHZ	abuv/m	uБ	авиу/ш	абиу/ш	ub	Derector
1	19292. 0000	41. 92	16.82	58.74	83. 50	-24. 76	Peak
2	19292. 0000	32. 02	16.82	48.84	63. 50	-14.66	AVG
3	20983. 5000	42.09	17.38	59.47	83. 50	-24. 03	Peak
4	20983. 5000	32.05	17.38	49.43	63. 50	-14. 07	AVG
5	22182.0000	41.26	18.92	60.18	83. 50	-23. 32	Peak
6	22182.0000	31.62	18.92	50. 54	63. 50	-12.96	AVG
7	23244. 5000	41.26	19.75	61.01	83. 50	-22. 49	Peak
8	23244. 5000	31. 52	19.75	51.27	63. 50	-12.23	AVG
9	23831.0000	42.85	19.37	62.22	83. 50	-21.28	Peak
10	23831.0000	32.05	19.37	51.42	63. 50	-12.08	AVG
11	25420. 5000	40. 50	21.38	61.88	83. 50	-21.62	Peak
12 *	25420. 5000	30.24	21.38	51.62	63. 50	-11.88	AVG





EUT			Wire Poin	less LAN / t	Access	Mode	I Name		AP615	0DN	
Temp	erature		25°C	;		Relat	ive Humi	dity	60%		
Test \	Voltage		AC 1	20V/60Hz	2	Polar	ization		Horizo	ntal	
Test I	Mode		FULI	LSYSTEM	1						
Note			PoE								
Test I	Engineer		Kevi	n Li							
	1BuV/m		I								
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0	0.00 18850.00) 19700		0550.00 214	00.00 22250	00 00400	.00 23950.	<u></u>	800.00		28500.00
1800	000000000000000000000000000000000000000	19100	JU 2	UJOUJUU 214	00.00 22250.	00 23100		UU 24	1000110		28500.00 (Mi Hz)
No.	Freq.	Read Leve	ding el	Correct Factor	Measure ment	Limit	Margin				
	MHz	dBuV	//m	dB	dBuV/m	dBuV/m	dB		ector		
1	18765.00	00 37.7	′ 6	16.67	54.43	83. 50	-29.07	Pea	k		

		Level	Factor	ment			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	18765. 0000	37.76	16.67	54.43	83. 50	-29.07	Peak
2	18765. 0000	27.31	16.67	43.98	63. 50	-19. 52	AVG
3	20167. 5000	39.44	15.91	55.35	83. 50	-28.15	Peak
4	20167. 5000	29.29	15.91	45.20	63. 50	-18. 30	AVG
5	21629. 5000	40. 45	18.63	59.08	83. 50	-24. 42	Peak
6	21629. 5000	30. 23	18.63	48.86	63. 50	-14.64	AVG
7	23406.0000	40.90	19.95	60.85	83. 50	-22.65	Peak
8	23406.0000	30. 42	19.95	50. 37	63. 50	-13.13	AVG
9	24383. 5000	42. 52	19.64	62.16	83. 50	-21.34	Peak
10	24383. 5000	32.02	19.64	51.66	63. 50	-11.84	AVG
11	25522. 5000	40.16	21. 32	61.48	83. 50	-22. 02	Peak
12 *	25522. 5000	30.45	21. 32	51.77	63. 50	-11. 73	AVG





EUT	Wireless LAN Access Point	Model Name	AP6150DN					
Temperature	25°C	Relative Humidity	60%					
Test Voltage	AC 120V/60Hz	C 120V/60Hz Polarization Vertical						
Test Mode	FULL SYSTEM	ULL SYSTEM						
Note	PoE							
Test Engineer	Kevin Li							
100 dBuV/m								
50 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 	11 12 X					
0 28500.00 28850.00 2	7200.00 27550.00 27900.00 28250	.00 28600.00 29950.00 2	9300.00 30000.00 (MHz)					

Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
26784.8840	45.95	3.96	49. 9 1	83. 50	-33. 59	Peak
26784.8840	35.26	3.96	39. 22	63. 50	-24.28	AVG
27341.0850	51.61	3. 10	54.71	83. 50	-28.79	Peak
27341.0850	41.23	3. 10	44. 33	63.50	-19.17	AVG
27761. 6280	53.07	3.56	56.63	83. 50	-26.87	Peak
27761. 6280	43. 20	3.56	46.76	63. 50	-16.74	AVG
28073.6430	53.13	4.49	57.62	83. 50	-25.88	Peak
28073.6430	43.04	4.49	47.53	63.50	-15.97	AVG
28887. 5970	53.16	5.41	58. 57	83. 50	-24.93	Peak
28887. 5970	43.09	5. 41	48.50	63.50	-15.00	AVG
29294. 5730	52.85	5.79	58.64	83. 50	-24.86	Peak
29294. 5730	42.09	5.79	47.88	63.50	-15.62	AVG
	MHz 26784. 8840 26784. 8840 27341. 0850 27341. 0850 27761. 6280 28073. 6430 28073. 6430 2887. 5970 28887. 5970 29294. 5730	Level	MHz dBuV/m dB 26784. 8840 45. 95 3. 96 26784. 8840 35. 26 3. 96 26784. 8840 35. 26 3. 96 27341. 0850 51. 61 3. 10 27341. 0850 41. 23 3. 10 27761. 6280 53. 07 3. 56 28073. 6430 53. 13 4. 49 28073. 6430 43. 04 4. 49 28887. 5970 53. 16 5. 41 28887. 5970 43. 09 5. 41 29294. 5730 52. 85 5. 79	MHz dBuV/m dB dBuV/m 26784. 8840 45. 95 3. 96 49. 91 26784. 8840 35. 26 3. 96 39. 22 27341. 0850 51. 61 3. 10 54. 71 27341. 0850 41. 23 3. 10 44. 33 27761. 6280 53. 07 3. 56 56. 63 27761. 6280 43. 20 3. 56 46. 76 28073. 6430 53. 13 4. 49 57. 62 28073. 6430 43. 04 4. 49 47. 53 28887. 5970 53. 16 5. 41 58. 57 28887. 5970 43. 09 5. 41 48. 50 29294. 5730 52. 85 5. 79 58. 64	Hevel Factor ment MHz dBuV/m dB dBuV/m dBuV/m 26784. 8840 45. 95 3. 96 49. 91 83. 50 26784. 8840 35. 26 3. 96 39. 22 63. 50 27341. 0850 51. 61 3. 10 54. 71 83. 50 27341. 0850 41. 23 3. 10 44. 33 63. 50 27761. 6280 53. 07 3. 56 56. 63 83. 50 27761. 6280 43. 20 3. 56 46. 76 63. 50 28073. 6430 53. 13 4. 49 57. 62 83. 50 28887. 5970 53. 16 5. 41 58. 57 83. 50	Heven Factor ment Grad MHz dBuV/m dB dBuV/m dBuV/m dB 26784. 8840 45. 95 3. 96 49. 91 83. 50 -33. 59 26784. 8840 35. 26 3. 96 39. 22 63. 50 -24. 28 27341. 0850 51. 61 3. 10 54. 71 83. 50 -28. 79 27341. 0850 41. 23 3. 10 44. 33 63. 50 -19. 17 27761. 6280 53. 07 3. 56 56. 63 83. 50 -26. 87 27761. 6280 43. 20 3. 56 46. 76 63. 50 -16. 74 28073. 6430 53. 13 4. 49 57. 62 83. 50 -25. 88 28073. 6430 43. 04 4. 49 47. 53 63. 50 -15. 97 28887. 5970 53. 16 5. 41 58. 57 83. 50 -24. 93 28887. 5970 43. 09 5. 41 48. 50 63. 50 -15. 00 29294. 5730 52. 85 5. 79 58. 6





EUT	Wireless LAN Access Point	Model Name	AP6150DN			
Temperature	25°C	25°C Relative Humidity 60%				
Test Voltage	AC 120V/60Hz	Polarization	Horizontal			
Test Mode	FULL SYSTEM					
Note	PoE					
Test Engineer	Kevin Li					
100 dBuV/m	3 5 3 5 X X	7 9 7 9 7 8 10 X X	11 12 X			
0	0.00 27550.00 27900.00 28250.00	28600.00 28950.00 2	8300.00 30000.00 (Miltz)			

No.	Freq.	Level	Factor	measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	26866. 2790	47.45	4.03	51.48	83. 50	-32.02	Peak
2	26866. 2790	37.26	4.03	41.29	63. 50	-22.21	AVG
3	27408.9150	52.31	2.89	55. 20	83. 50	-28.30	Peak
4	27408.9150	42.31	2.89	45. 20	63. 50	-18.30	AVG
5	27897.2870	52.44	4.04	56.48	83. 50	-27.02	Peak
6	27897.2870	41.99	4.04	46.03	63. 50	-17.47	AVG
7	28534.8840	51.15	4.97	56.12	83. 50	-27. 38	Peak
8	28534.8840	41.00	4.97	45.97	63. 50	-17. 53	AVG
9	29023. 2560	52.34	5.56	57.90	83. 50	-25.60	Peak
10 *	29023. 2560	41.91	5.56	47.47	63. 50	-16.03	AVG
11	29525. 1940	49.94	6.04	55. 98	83. 50	-27. 52	Peak
12	29525. 1940	40.03	6.04	46.07	63.50	-17. 43	AVG