

FCC Radio Test Report FCC ID: KA2AP1160LA1

This report concerns (check one) : Original Grant Class I Change

Issued Date : Sep. 17, 2012 **Project No.** : 1208C219

Equipment: Wireless N 150 Cloud Access Point

Model Name : DAP-1160L

Applicant : D-LINK CORPORATION

Address: No.289, Sinhu 3rd Rd., Neihu District, Taipei City

114, Taiwan, R.O.C.

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Aug. 24, 2012

Date of Test:

Aug. 24, 2012 ~ Sep. 16, 2012

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Report No.: NEI-FCCP-1-1208C219 Page 1 of 136



Declaration

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Report No.: NEI-FCCP-1-1208C219 Page 2 of 136

Table of Contents	Page
1. CERTIFICATION	5
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
3. GENERAL INFORMATION	8
3.1 GENERAL DESCRIPTION OF EUT	8
3.2 DESCRIPTION OF TEST MODES	10
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	11
3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 12
3.5 DESCRIPTION OF SUPPORT UNITS	13
4 . EMC EMISSION TEST	14
4.1 CONDUCTED EMISSION MEASUREMENT	14
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	14
4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING	14
4.1.3 TEST PROCEDURE 4.1.4 DEVIATION FROM TEST STANDARD	15 15
4.1.5 TEST SETUP	15
4.1.6 EUT OPERATING CONDITIONS	15
4.1.7 TEST RESULTS	16
4.1.8. EUT TEST PHOTO	22
4.2 RADIATED EMISSION MEASUREMENT	23
4.2.1 RADIATED EMISSION LIMITS	23
4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING	24
4.2.3 TEST PROCEDURE 4.2.4 DEVIATION FROM TEST STANDARD	25 25
4.2.5 TEST SETUP	26
4.2.6 EUT OPERATING CONDITIONS	27
4.2.7 TEST RESULTS (BELOW 30MHZ)	28
4.2.8 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	29
4.2.9 TEST RESULTS (ABOVE 1000 MHZ) 4.2.10. EUT TEST PHOTO	35 83
5 . BANDWIDTH TEST	86
5.1 APPLIED PROCEDURES / LIMIT 5.1.1 MEASUREMENT INSTRUMENTS LIST	86 86
5.1.2 TEST PROCEDURE	86
5.1.3 DEVIATION FROM STANDARD	86
5.1.4 TEST SETUP	86
5.1.5 EUT OPERATION CONDITIONS	86

Report No.: NEI-FCCP-1-1208C219 Page 3 of 136

Neutr	on Engineering Inc.	
EUTROS .	Table of Contents	Page
5.1.6 TEST		87
5.1.7. EUT	TEST PHOTO	96
6. MAXIMUM O	UTPUT POWER TEST	97
6.1 APPLIED F	PROCEDURES / LIMIT	97
6.1.1 MEAS	SUREMENT INSTRUMENTS LIST	97
6.1.2 TEST	PROCEDURE	97
6.1.3 DEVIA	ATION FROM STANDARD	97
6.1.4 TEST	SETUP	97
6.1.5 EUT (PERATION CONDITIONS	97
6.1.6 TEST		98
6.1.7. EUT	TEST PHOTO	100
7 . ANTENNA CO	ONDUCTED SPURIOUS EMISSION	101
7.1 APPLIED F	PROCEDURES / LIMIT	101
7.1.1 MEAS	SUREMENT INSTRUMENTS LIST	101
7.1.2 TEST	PROCEDURE	101
7.1.3 DEVIA	ATION FROM STANDARD	101
7.1.4 TEST	SETUP	101
7.1.5 EUT (PERATION CONDITIONS	101
7.1.6 TEST		102
7.1.7. EUT	TEST PHOTO	122
8 . POWER SPE	CTRAL DENSITY TEST	123
8.1 APPLIED F	PROCEDURES / LIMIT	123
8.1.1 MEAS	SUREMENT INSTRUMENTS LIST	123
8.1.2 TEST	PROCEDURE	123
8.1.3 DEVIA	ATION FROM STANDARD	123
8.1.4 TEST	SETUP	123
8.1.5 EUT (PERATION CONDITIONS	123
8.1.6 TEST	RESULTS	124
817 FUT	TEST PHOTO	132

133

Report No.: NEI-FCCP-1-1208C219 Page 4 of 136

9. EUT PHOTO

1. CERTIFICATION

Equipment: Wireless N 150 Cloud Access Point

Brand Name: D-Link Model Name: DAP-1160L

Applicant : D-LINK CORPORATION Factory : Alpha Networks Inc.

Building D15, No.168, Guangfu Road, Chengfei Avenue, Industrial

Address : Centralization Development Zone (East Zone), QingYang Dist., Chengdu,

610092, China

Date of Test : Aug. 24, 2012 ~ Sep. 16, 2012 Test Item : ENGINEERING SAMPLE

Standards : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1208C219) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Report No.: NEI-FCCP-1-1208C219 Page 5 of 136

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247), Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(d)	Antenna conducted Spurious Emission	PASS			
15.247(a)(2)	6dB Bandwidth	PASS			
15.247(b)(3)	Peak Output Power	PASS			
15.209/15.205	Radiated Spurious Emission	PASS			
15.247(e)	Power Spectral Density	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No,558074(Measurement Guidelines of DTS)

Report No.: NEI-FCCP-1-1208C219 Page 6 of 136

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number is 319330

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 reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 % \circ

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
DG-CB03	CISPR	30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	

Report No.: NEI-FCCP-1-1208C219 Page 7 of 136



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless N 150 Cloud Access Point			
Brand Name	D-Link			
Model Name	DAP-1160L			
Model Difference	N/A			
		150 Cloud Access Point.		
	Operation Frequency	2412~2462 MHz		
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM		
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps Draft 802.11n:up to 150Mbps		
Product Description	Number of Channel	11 CH, Please see note 2.(Page 9)		
·	Antenna Designation Antenna Gain(Peak)	Please see note 3.(Page 9)		
	Output Power 802.11b: 19.76dBm 802.11g: 24.25dBm 802.11n(20MHz): 23.74 dBm 802.11n(40MHz): 23.51 dBm			
	Based on the application, features, or specification extuser's Manual, the EUT is considered as an ITE/Comp Device. More details of EUT technical specification, ple to the User's Manual.			
Power Source	DC Voltage supplied from AC/DC adapter. #1 Brand/ Model name: D-Link / AMS9-1201000FU2 #2 Brand/ Model name: D-Link / CAP012121US #3 Brand/ Model name: gent Power / GPE1016-12120-2A			
Power Rating	#1 I/P AC 100-240V~ 50/60Hz, 0.5A O/P DC 12V 1.0A #2 I/P AC 100-240V~ 47-63Hz, 0.35A O/P DC 12V 1.0A #3 I/P AC 100-240V~ 0.5A MAX 50-60Hz O/P DC 12V 1A			
Connecting I/O Port(s)	Please refer to the User's	s Manual		

Note

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

Report No.: NEI-FCCP-1-1208C219 Page 8 of 136



2. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 for 802.11n(40MHz)

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
2	N/A	N/A	Printed	N/A	0.41	

Report No.: NEI-FCCP-1-1208C219 Page 9 of 136

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates 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	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	Normal Link

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test				
Final Test Mode	Description			
Mode 5	Normal Link			

For Radiated Test					
Final Test Mode	Description				
Mode 1	TX B MODE CHANNEL 01/06/11				
Mode 2	TX G MODE CHANNEL 01/06/11				
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11				
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09				

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)

802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (6.5Mbps) 802.11n HT40 mode : BPSK (13.5Mbps)

For radiated emission tests, the highest output powers were set for final test.

(3) For Radiated measurement the EUT system operated these modes with adapter: AMS9-1201000FU2, CAP012121US and GPE1016-12120-2A were found to be the worst case is AMS9-1201000FU2.

Report No.: NEI-FCCP-1-1208C219 Page 10 of 136

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software Version	MP-TOOL			
Frequency	2412 MHz 2437 MHz 2462 MHz			
IEEE 802.11b DSSS	41	40	40	
IEEE 802.11g OFDM	47	45	45	

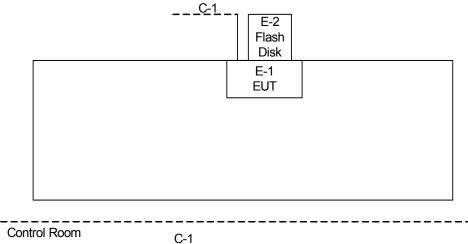
Test software Version	MP-TOOL				
Frequency (MHz)	2412 MHz	2437 MHz	2462 MHz		
IEEE 802.11n (20MHz)	45	44	43		
Frequency (MHz)	2422 MHz	2437 MHz	2452 MHz		
IEEE 802.11n (40MHz)	43	43	43		

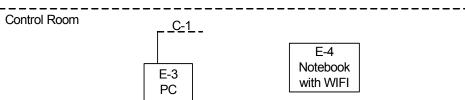
Report No.: NEI-FCCP-1-1208C219 Page 11 of 136



3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

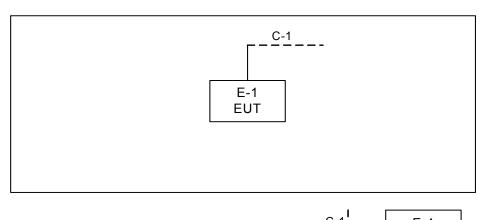
Conducted Mode:





C-1: RJ45 Cable

Radiated TX Mode:



C-1 E-4 Notebook

Report No.: NEI-FCCP-1-1208C219 Page 12 of 136

3.5 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.	Note
E-1	Wireless N 150 Cloud Access Point	D-Link	DAP-1160L	KA2AP1160LA1	N/A	EUT
E-2	Flash Disk	Kingston	DTI/1GB	DOC	39621564-014D53 4	
E-3	PC	HP	Dx7400	DOC	CNG7430PX0	
E-4	NOTEBOOK	DELL	INSPIRON 1420	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in m in <code>[Length]</code> column.

Report No.: NEI-FCCP-1-1208C219 Page 13 of 136

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

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

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	LISN	EMCO	3816/2	00052765	May.26.2012	May.04.2013
2	LISN	R&S	ENV216	100087	May.26.2012	May.04.2013
3	Test Cable	N/A	C_17	N/A	Mar.18.2012	Mar.28.2013
4	EMI TEST RECEIVER	R&S	ESCS30	826547/02 2	May.26.2012	May.04.2013
5	50Ω Terminator	SHX	TF2-3G-A	08122902	May.26.2012	May.04.2013

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

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Report No.: NEI-FCCP-1-1208C219 Page 14 of 136

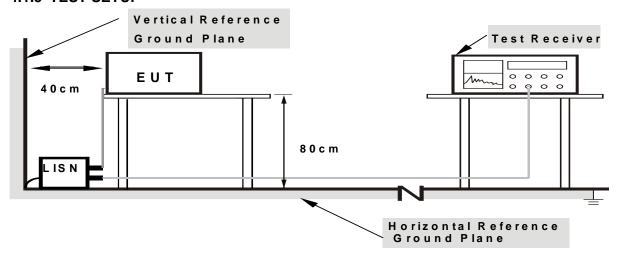
4.1.3 TEST PROCEDURE

- 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 equipments powered 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.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting mode.

Report No.: NEI-FCCP-1-1208C219 Page 15 of 136

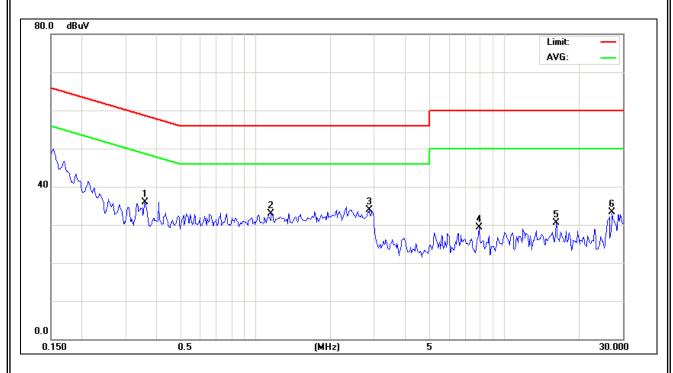
4.1.7 TEST RESULTS

EUT:	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L			
Temperature:	25 °C	Relative Humidity:	58 %			
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz			
Test Mode :	Normal Link- Adapter: AMS9-1201000FU2					

Freq.	Terminal	Measure	d(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.36	Line	35.81	*	58.71	48.71	-22.90	(QP)
1.16	Line	32.96	*	56.00	46.00	-23.04	(QP)
2.86	Line	33.98	*	56.00	46.00	-22.02	(QP)
7.92	Line	29.39	*	60.00	50.00	-30.61	(QP)
16.17	Line	30.43	*	60.00	50.00	-29.57	(QP)
27.16	Line	33.24	*	60.00	50.00	-26.76	(QP)

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 In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (3) Measuring frequency range from 150KHz to 30MHz \circ



Report No.: NEI-FCCP-1-1208C219 Page 16 of 136

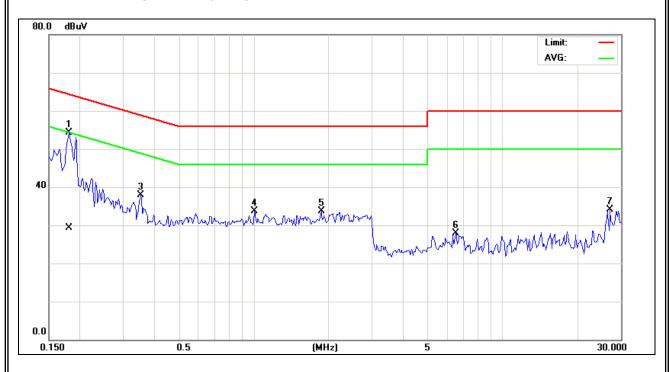


E.U.T:	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L			
Temperature :	25 °C	Relative Humidity:	58 %			
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz			
Test Mode:	Normal Link- Adapter: AMS9-1201000FU2					

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.18	Neutral	54.22	29.36	64.43	54.43	-10.21	(QP)
0.35	Neutral	37.97	*	58.89	48.89	-20.92	(QP)
1.01	Neutral	33.64	*	56.00	46.00	-22.36	(QP)
1.87	Neutral	33.64	*	56.00	46.00	-22.36	(QP)
6.52	Neutral	27.87	*	60.00	50.00	-32.13	(QP)
27.16	Neutral	34.05	*	60.00	50.00	-25.95	(QP)

- (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

 Output
- (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 on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on
- (3) Measuring frequency range from 150KHz to 30MHz o



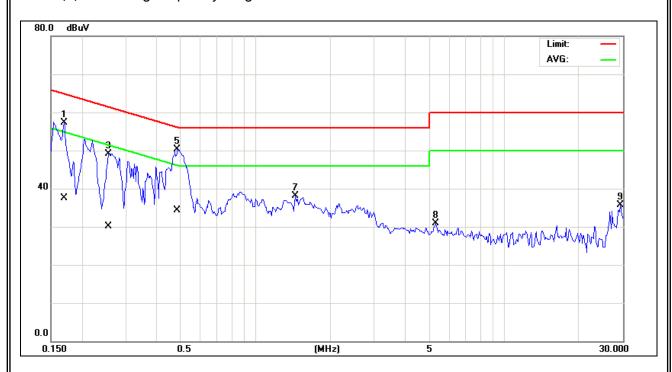
Report No.: NEI-FCCP-1-1208C219 Page 17 of 136



EUT:	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L			
Temperature:	25 °C	Relative Humidity:	58 %			
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz			
Test Mode :	Normal Link- Adapter: CAP012121US					

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.17	Line	57.28	37.46	64.99	54.99	-7.71	(QP)
0.26	Line	49.20	30.10	61.58	51.58	-12.38	(QP)
0.49	Line	50.33	34.35	56.24	46.24	-5.91	(QP)
1.44	Line	38.17	*	56.00	46.00	-17.83	(QP)
5.30	Line	30.92	*	60.00	50.00	-29.08	(QP)
29.23	Line	35.68	*	60.00	50.00	-24.32	(QP)

- (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 In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (3) Measuring frequency range from 150KHz to 30MHz o



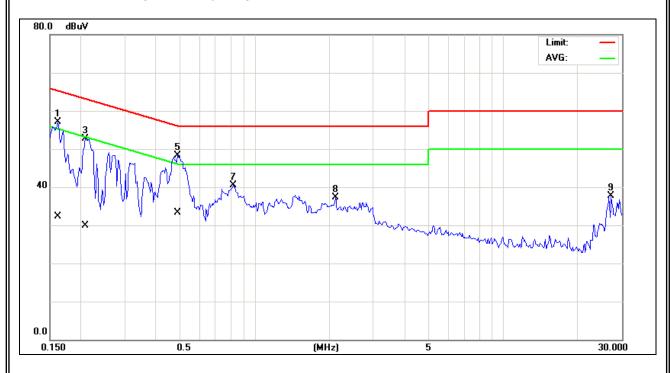
Report No.: NEI-FCCP-1-1208C219 Page 18 of 136



E.U.T :	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L
Temperature :	25 °C	Relative Humidity:	58 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Normal Link– Adapter: CAP012121US		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.16	Neutral	57.07	32.23	65.38	55.38	-8.31	(QP)
0.21	Neutral	52.72	29.98	63.26	53.26	-10.54	(QP)
0.49	Neutral	48.25	33.39	56.17	46.17	-7.92	(QP)
0.82	Neutral	40.50	*	56.00	46.00	-15.50	(QP)
2.12	Neutral	37.24	*	56.00	46.00	-18.76	(QP)
27.16	Neutral	37.77	*	60.00	50.00	-22.23	(QP)

- (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 $^\circ$ 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 $^\circ$
- (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 on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on
- (3) Measuring frequency range from 150KHz to 30MHz o



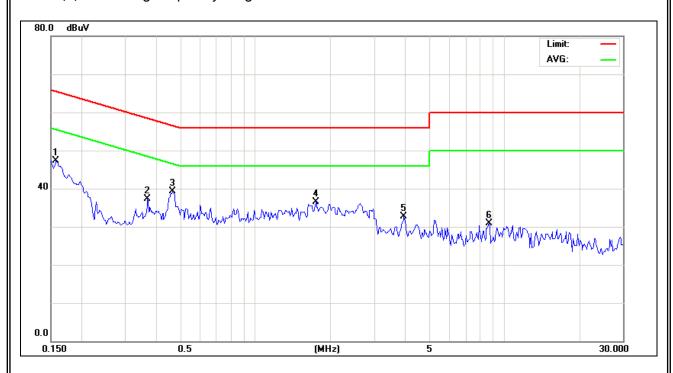
Report No.: NEI-FCCP-1-1208C219 Page 19 of 136



EUT:	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L
Temperature:	25 °C	Relative Humidity:	58 %
Pressure: 1009 hPa		Test Voltage : AC 120V/60Hz	
Test Mode : Normal Link- Adapter: GPE1016-12120-2A			

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.16	Line	47.34	*	65.58	55.58	-18.24	(QP)
0.37	Line	37.31	*	58.53	48.53	-21.22	(QP)
0.46	Line	39.34	*	56.65	46.65	-17.31	(QP)
1.75	Line	36.58	*	56.00	46.00	-19.42	(QP)
3.96	Line	32.66	*	56.00	46.00	-23.34	(QP)
8.71	Line	30.91	*	60.00	50.00	-29.09	(QP)

- (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 In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (3) Measuring frequency range from 150KHz to 30MHz o



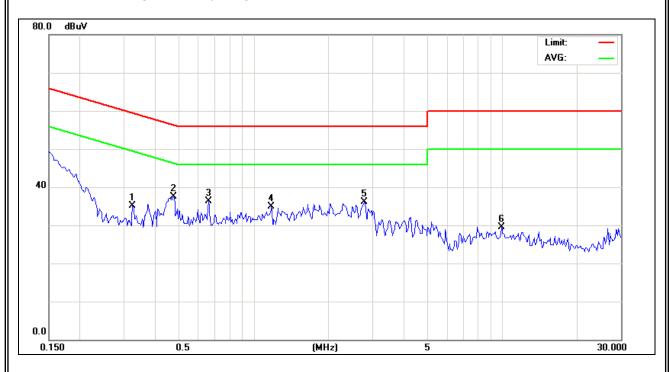
Report No.: NEI-FCCP-1-1208C219 Page 20 of 136



E.U.T :	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L
Temperature :	25 °C	Relative Humidity:	58 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Normal Link- Adapter: GPE1016-12120-2A		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.33	Neutral	35.19	*	59.56	49.56	-24.37	(QP)
0.48	Neutral	37.53	*	56.37	46.37	-18.84	(QP)
0.66	Neutral	36.38	*	56.00	46.00	-19.62	(QP)
1.18	Neutral	34.84	*	56.00	46.00	-21.16	(QP)
2.79	Neutral	36.06	*	56.00	46.00	-19.94	(QP)
9.94	Neutral	29.46	*	60.00	50.00	-30.54	(QP)

- (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 on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on
- (3) Measuring frequency range from 150KHz to 30MHz o

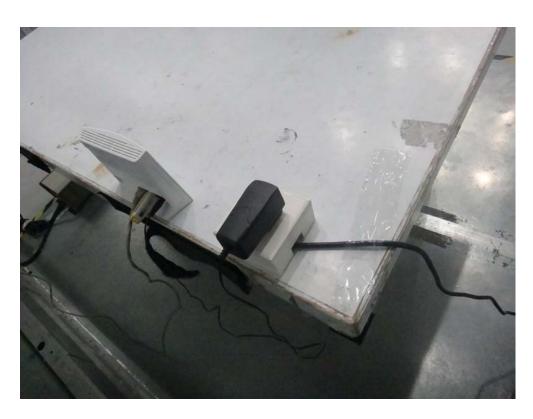


Report No.: NEI-FCCP-1-1208C219 Page 21 of 136

4.1.8. EUT TEST PHOTO

Conducted Measurement Photos





Report No.: NEI-FCCP-1-1208C219 Page 22 of 136

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3m)		
FREQUENCY (IVITIZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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

Report No.: NEI-FCCP-1-1208C219 Page 23 of 136

4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Antenna	Schwarbeck	VULB9160	9160-3232	Jun .04.2012	May.25.2013
2	Amplifier	HP	8447D	2944A09673	May.26.2012	Nov.25.2012
3	Test Receiver	R&S	ESCI	100382	May.26.2012	Nov.25.2012
4	Test Cable	N/A	C-01_CB03	N/A	Jul.01.2012	Apr.05.2013
5	Antenna	ETS	3115	00075789	May.26.2012	May.25.2013
6	Amplifier	Agilent	8449B	3008A02274	May.26.2012	May.04.2013
7	Spectrum	Agilent	E4408B	US39240143	Nov.25.2012	May.04.2013
8	Test Cable	HUBER+SUH NER	C-45	N/A	May.04.2012	Jun.30.2013
9	Controller	СТ	SC100	N/A	N/A	N/A
10	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.26.2012	May.04.2013
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.13.2011	Oct.13.2012
12	Horn Antenna	EMCO	3115	9605-4803	May.26.2012	May.25.2013

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

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB	ANUL / ANUL for Dook A MUL / ADUL for Average		
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average		

Receiver Parameter	Setting			
Attenuation	Auto			
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector			
Start ~ Stop Frequency	90kHz~110kHz for QP detector			
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector			
Start ~ Stop Frequency	490kHz~30MHz for QP detector			
Start ~ Stop Frequency	30MHz~1000MHz for QP detector			

Report No.: NEI-FCCP-1-1208C219 Page 24 of 136



4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD	4.2.4 DEVIATION FROM TEST STANDAR	D
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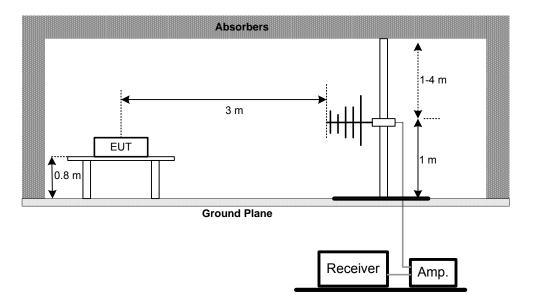
No deviation

Report No.: NEI-FCCP-1-1208C219 Page 25 of 136

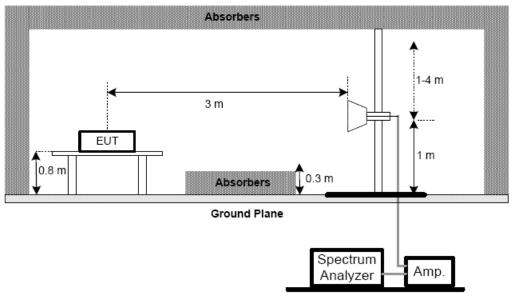


4.2.5 TEST SETUP

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



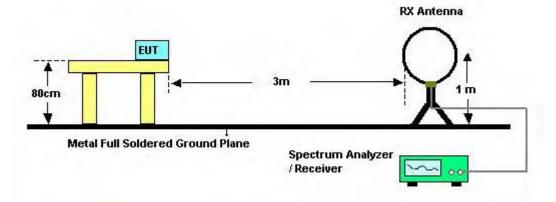
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



Report No.: NEI-FCCP-1-1208C219 Page 26 of 136



(C) For radiated emissions below 30MHz



4.2.6 EUT 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.

Report No.: NEI-FCCP-1-1208C219 Page 27 of 136

4.2.7 TEST RESULTS (BELOW 30MHZ)

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L		
Temperature:	25 ℃	Relative Humidity:	55 %		
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode – Adapter: AMS9-1201000FU2				

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.009	0 /90 0°	16.78	24.30	41.08	128.10	-87.02	AV
0.009	0°	19.56	24.30	43.86	148.10	-104.24	PK
0.014	0°	18.05	24.30	42.35	124.81	-82.46	AV
0.014	0°	20.15	24.30	44.45	144.81	-100.36	PK
0.025	0°	17.84	24.01	41.85	119.79	-77.94	AV
0.025	0°	20.63	24.01	44.64	139.79	-95.15	PK
0.04	0°	17.52	23.23	40.75	116.26	-75.51	AV
0.04	0°	20.49	23.23	43.72	136.26	-92.54	PK
0.36	0°	18.09	20.14	38.23	96.55	-58.31	AVG
0.36	0°	20.55	20.14	40.69	116.55	-75.85	PK
1.28	0°	19.48	19.57	39.05	65.49	-26.44	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.010	90°	17.42	24.30	41.72	127.96	-86.24	AVG
0.010	90°	20.19	24.30	44.49	147.96	-103.47	PK
0.026	90°	17.26	23.94	41.20	119.41	-78.21	AVG
0.026	90°	19.68	23.94	43.62	139.41	-95.79	PK
0.033	90°	17.12	23.51	40.63	117.37	-76.74	AVG
0.033	90°	19.68	23.51	43.19	137.37	-94.18	PK
0.05	90°	18.05	22.43	40.48	113.69	-73.22	AVG
0.05	90°	20.35	22.43	42.78	133.69	-90.92	PK
0.28	90°	18.12	20.32	38.44	98.52	-60.09	AVG
0.28	90°	20.39	20.32	40.71	118.52	-77.82	PK
1.54	90°	19.96	19.55	39.51	63.88	-24.38	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported \circ
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB); •
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor. •

Report No.: NEI-FCCP-1-1208C219 Page 28 of 136

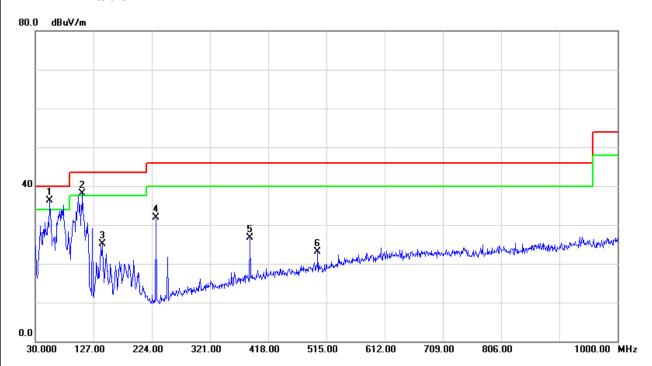
4.2.8 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L		
Temperature:	25 ℃	Relative Humidity:	58 %		
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE CHANNEL 01 – Adapter: AMS9-1201000FU2				

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
54.25	V	53.91	-17.63	36.28	40.00	- 3.72	
108.57	V	56.79	-18.61	38.18	43.50	- 5.32	
141.55	V	43.06	-17.97	25.09	43.50	- 18.41	
230.79	V	47.84	-16.03	31.81	46.00	- 14.19	
387.93	V	36.87	-10.23	26.64	46.00	- 19.36	
500.45	V	31.43	-8.37	23.06	46.00	- 22.94	

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m l}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m o}$
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

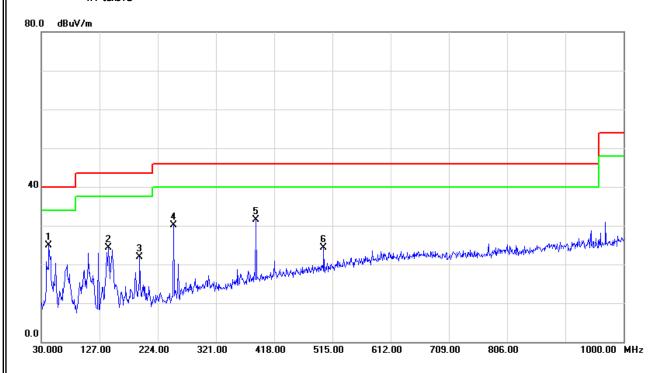


Report No.: NEI-FCCP-1-1208C219 Page 29 of 136

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L			
Temperature:	25 ℃	Relative Humidity:	58 %			
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz			
Test Mode :	TX B MODE CHANNEL 01 – Adapter: AMS9-1201000FU2					

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
42.61	Ι	41.67	-16.83	24.84	40.00	- 15.16	
141.55	Н	42.22	-17.97	24.25	43.50	- 19.25	
193.93	Н	38.93	-17.03	21.90	43.50	- 21.60	
250.19	Н	45.12	-15.02	30.10	46.00	- 15.90	
387.93	Н	41.83	-10.23	31.60	46.00	- 14.40	
500.45	Н	32.75	-8.37	24.38	46.00	- 21.62	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note \rceil . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

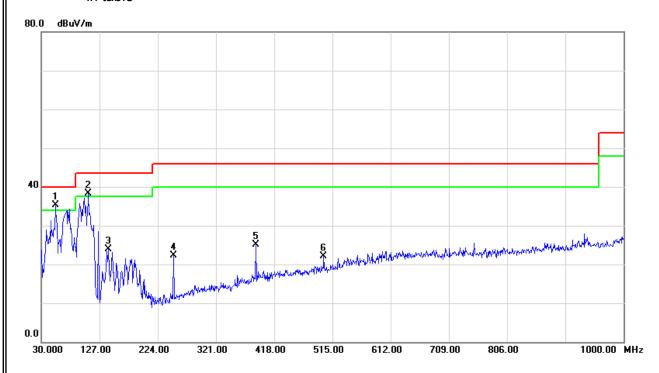


Report No.: NEI-FCCP-1-1208C219 Page 30 of 136

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L			
Temperature:	25 ℃	Relative Humidity:	58 %			
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz			
Test Mode :	TX B MODE CHANNEL 06 – Adapter: AMS9-1201000FU2					

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
53.28	V	52.98	-17.64	35.34	40.00	- 4.66	
108.57	V	56.98	-18.61	38.37	43.50	- 5.13	
141.55	V	41.92	-17.97	23.95	46.00	- 22.05	
250.19	V	37.24	-15.02	22.22	46.00	- 23.78	
387.93	V	35.38	-10.23	25.15	46.00	- 20.85	
500.45	V	30.54	-8.37	22.17	46.00	- 23.83	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note \rceil . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

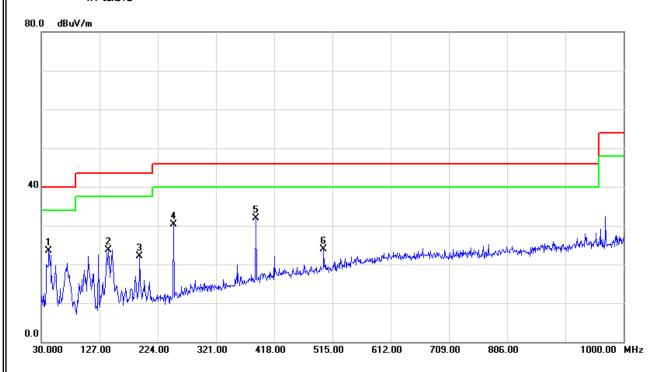


Report No.: NEI-FCCP-1-1208C219 Page 31 of 136

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L			
Temperature:	25 ℃	Relative Humidity:	58 %			
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz			
Test Mode :	TX B MODE CHANNEL 06 – Adapter: AMS9-1201000FU2					

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
42.61	Н	40.33	-16.83	23.50	40.00	- 16.50	
141.55	Н	41.75	-17.97	23.78	43.50	- 19.72	
193.93	Н	39.14	-17.03	22.11	43.50	- 21.39	
250.19	Н	45.23	-15.02	30.21	46.00	- 15.79	
387.93	Н	42.11	-10.23	31.88	46.00	- 14.12	
500.45	Н	32.36	-8.37	23.99	46.00	- 22.01	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m l}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m o}$
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

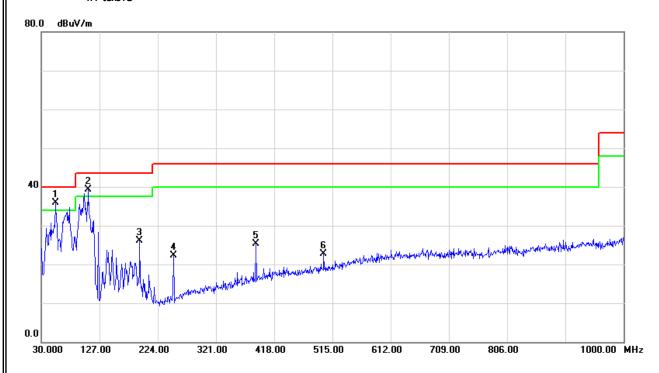


Report No.: NEI-FCCP-1-1208C219 Page 32 of 136

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L				
Temperature:	25 ℃	Relative Humidity:	58 %				
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz				
Test Mode :	X B MODE CHANNEL 11 – Adapter: AMS9-1201000FU2						

	Freq. MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
5	3.28	V	53.53	-17.64	35.89	40.00	- 4.11	
10	08.57	V	57.91	-18.61	39.30	43.50	- 4.20	
19	93.93	V	43.08	-17.03	26.05	43.50	- 17.45	
2	50.19	V	37.36	-15.02	22.34	46.00	- 23.66	
38	86.96	V	35.61	-10.26	25.35	46.00	- 20.65	
50	00.45	V	31.12	-8.37	22.75	46.00	- 23.25	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m l}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m o}$
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

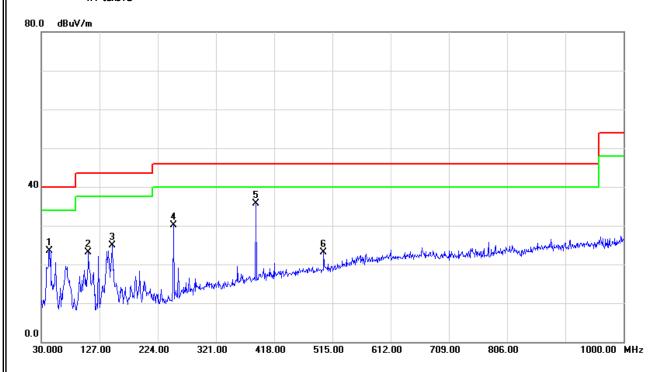


Report No.: NEI-FCCP-1-1208C219 Page 33 of 136

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L				
Temperature:	25 ℃	Relative Humidity:	58 %				
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz				
Test Mode :	Mode: TX B MODE CHANNEL 11 – Adapter: AMS9-1201000FU2						

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
43.58	Н	40.56	-16.97	23.59	40.00	- 16.41	
108.57	Н	41.62	-18.61	23.01	43.50	- 20.49	
148.34	Н	42.81	-17.87	24.94	43.50	- 18.56	
250.19	Н	45.08	-15.02	30.06	46.00	- 15.94	
387.93	Н	45.92	-10.23	35.69	46.00	- 10.31	
500.45	Н	31.51	-8.37	23.14	46.00	- 22.86	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note \rceil . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ



Report No.: NEI-FCCP-1-1208C219 Page 34 of 136

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

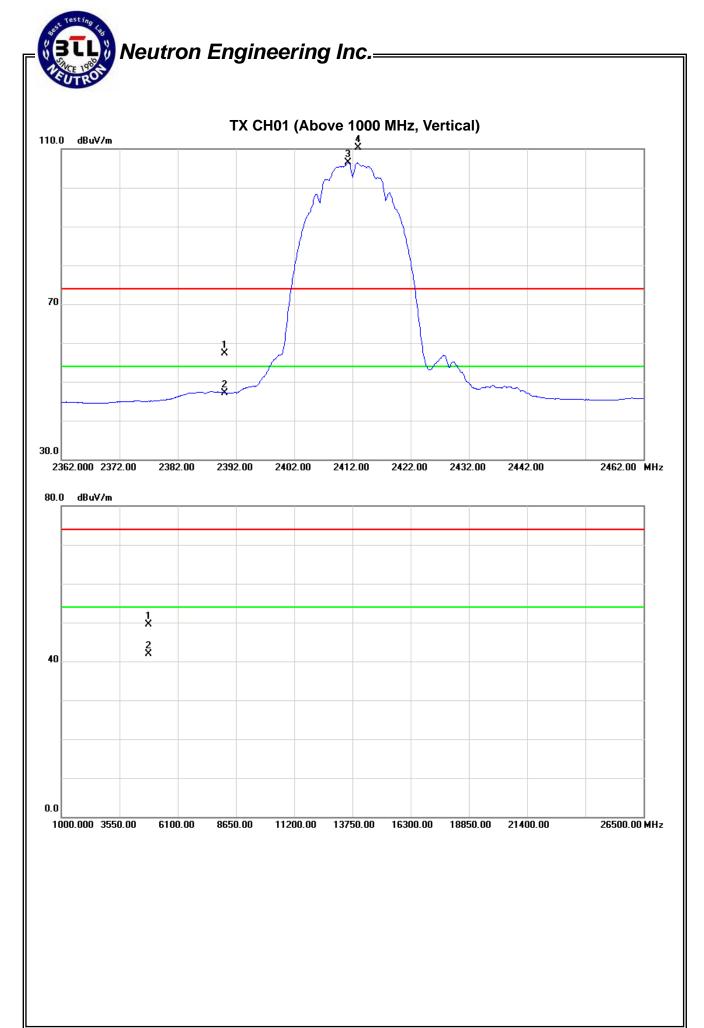
EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

Erog	Ant Dol	Freq. Ant.Pol.		ding	Ant./CF	A	ct.	انـا	nit	
пщ.	AII.FUI.	Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2390.00	V	25.09	14.84	32.28	57.37	47.12	74.00	54.00	X/E	
2413.00	V	78.05	74.18	32.26	110.31	106.44			X/F	
4823.99	V	43.22	35.68	6.19	49.41	41.87	74.00	54.00	X/H	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 35 of 136

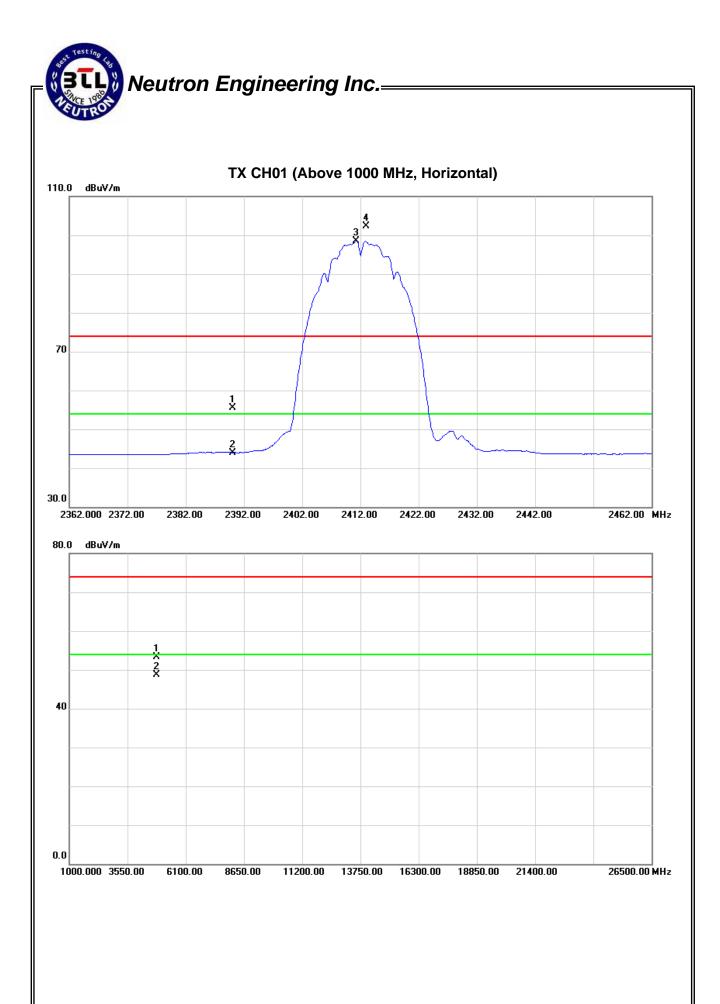


IFUI .	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

Freq.	Ant.Pol.	Reading Reading		Ant./CF	A	Act.		Limit		
пец.	AHLPOL	Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2390.00	Н	23.30	11.69	32.28	55.58	43.97	74.00	54.00	X/E	
2413.00	Н	70.05	66.27	32.26	102.31	98.53			X/F	
4824.00	Н	47.16	42.50	6.19	53.35	48.69	74.00	54.00	X/H	

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 37 of 136

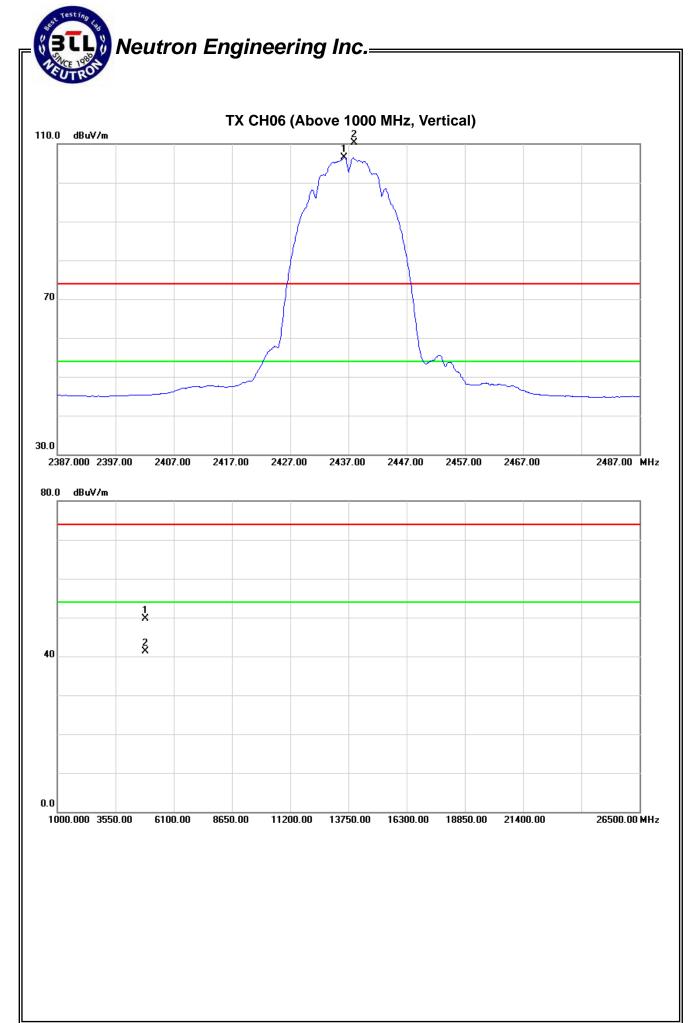


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

Freq.	Ant.Pol.	Reading Ant./		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.30	V	78.10	74.31	32.23	110.33	106.54			X/F
4873.95	V	44.26	35.86	5.47	49.73	41.33	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 39 of 136

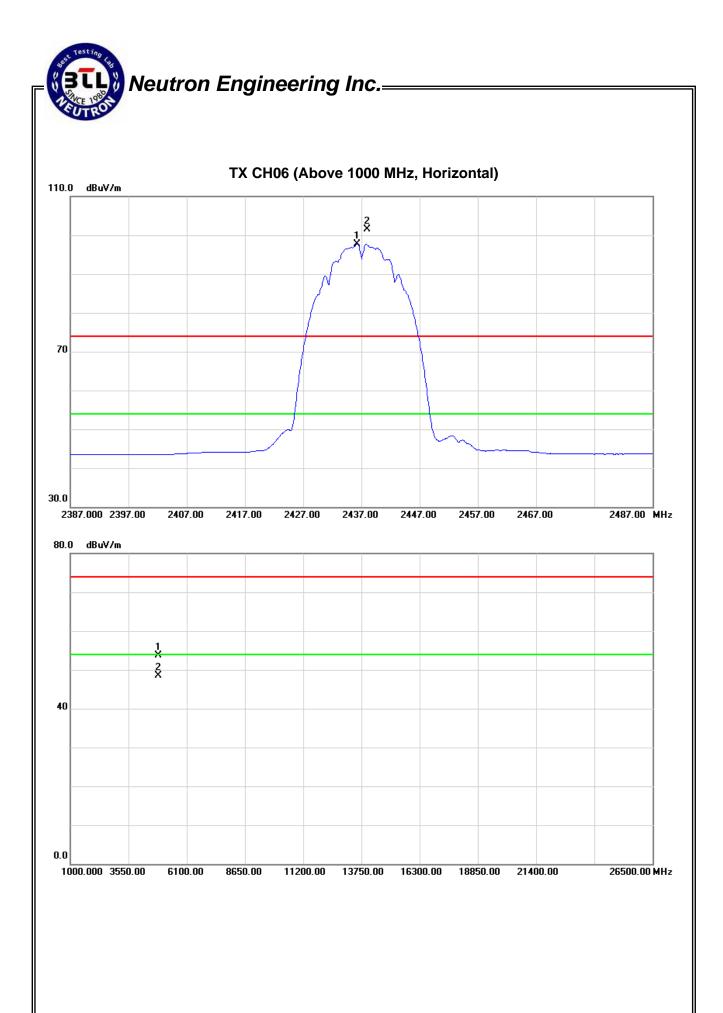


IFUI .	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

Freq.	Ant.Pol.	Reading Ant./CF		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.30	Н	69.36	65.53	32.22	101.58	97.75			X/F
4873.98	Н	48.15	43.09	5.47	53.62	48.56	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 41 of 136

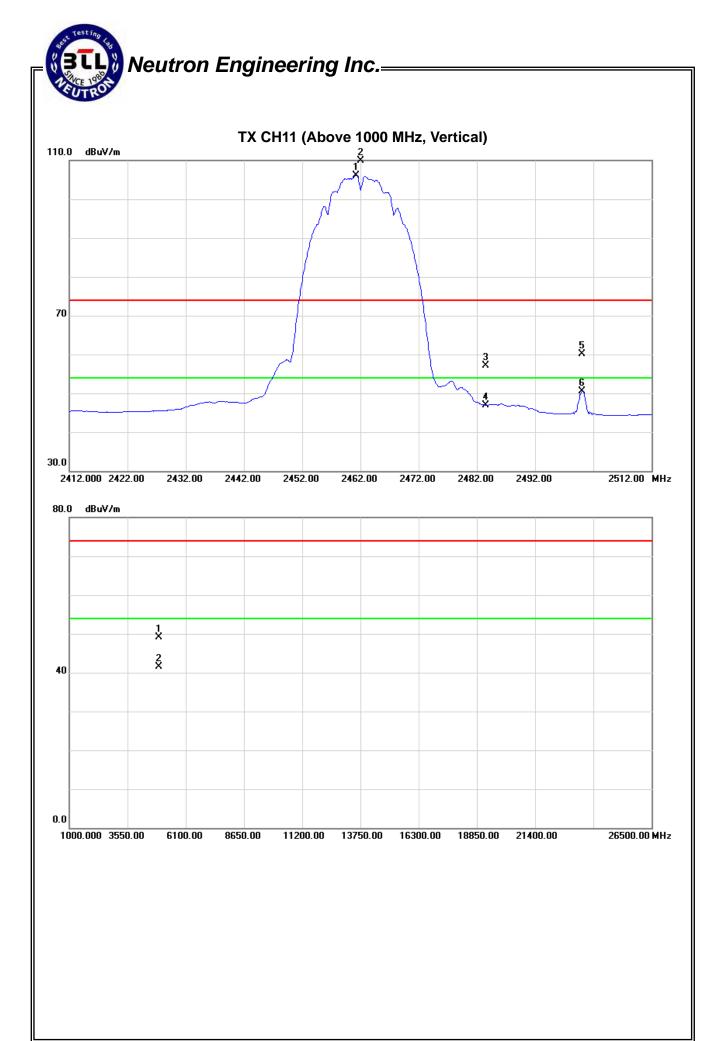


IFUI .	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2462.10	V	77.65	73.93	32.21	109.86	106.14			X/F	
2483.50	V	24.89	14.71	32.17	57.06	46.88	74.00	54.00	X/E	
2500.10	V	28.03	18.44	32.16	60.19	50.60	74.00	54.00	X/E	
4923.96	V	43.52	35.79	5.65	49.17	41.44	74.00	54.00	X/H	

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. 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 or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 43 of 136

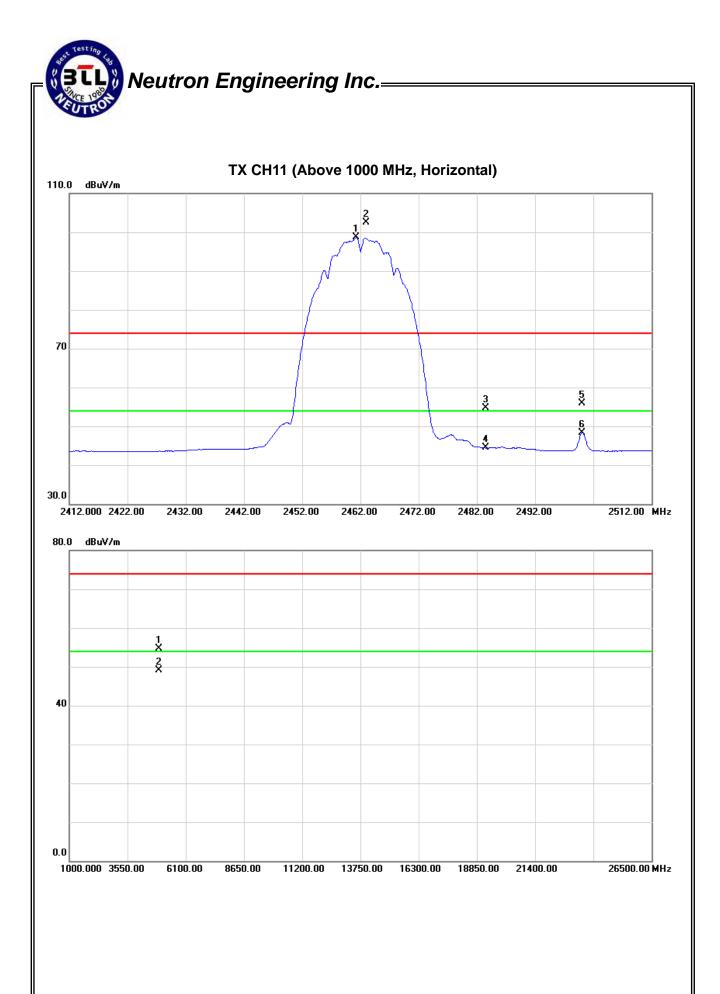


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2463.00	Н	70.27	66.46	32.20	102.47	98.66			X/F
2483.50	Н	22.49	12.24	32.17	54.66	44.41	74.00	54.00	X/E
2500.10	Н	23.79	16.23	32.16	55.95	48.39	74.00	54.00	X/E
4923.94	Н	48.96	43.45	5.65	54.61	49.10	74.00	54.00	X/H

- (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) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 45 of 136

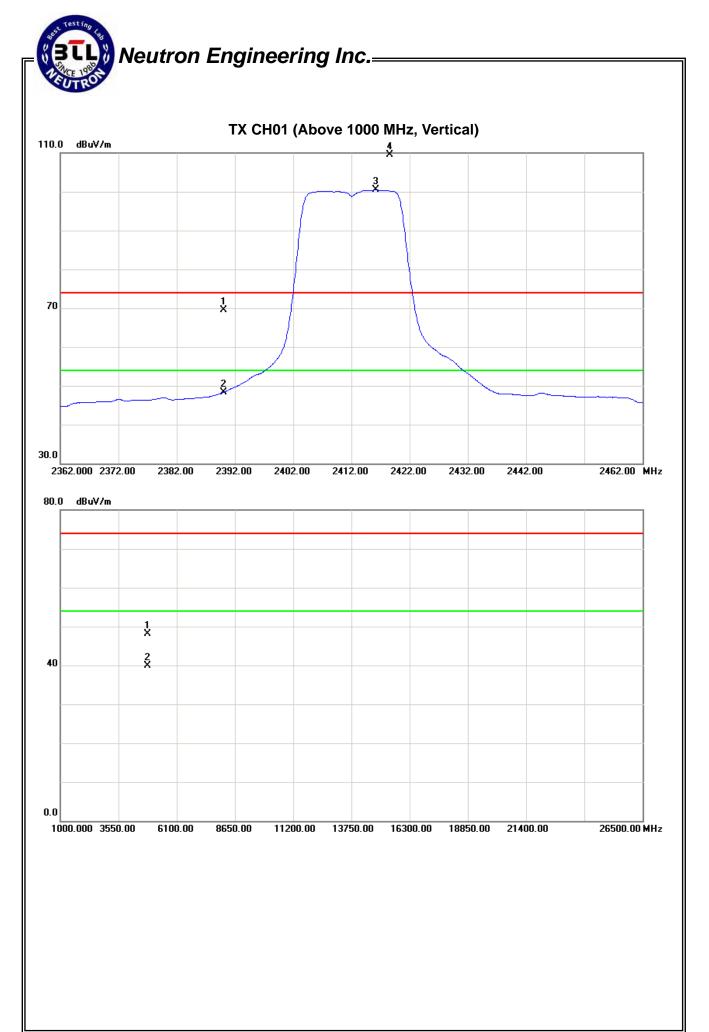


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

	Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
			Peak	AV		Peak	AV	Peak	AV	Note
	(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
	2390.00	V	37.20	15.98	32.28	69.48	48.26	74.00	54.00	X/E
1	2416.20	٧	77.23	68.20	32.25	109.48	100.45			X/F
4	4824.05	V	42.75	34.58	5.29	48.04	39.87	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 47 of 136

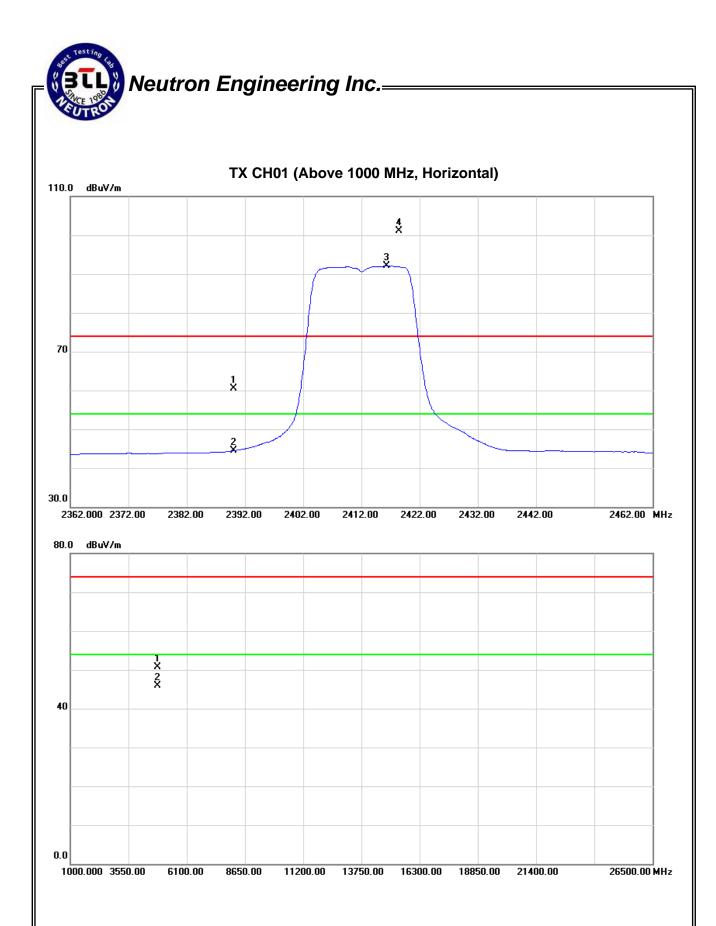


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	ΑV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	28.31	12.13	32.28	60.59	44.41	74.00	54.00	X/E
2416.30	Н	68.85	59.81	32.25	101.10	92.06			X/F
4824.08	Н	45.32	40.56	5.29	50.61	45.85	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 49 of 136

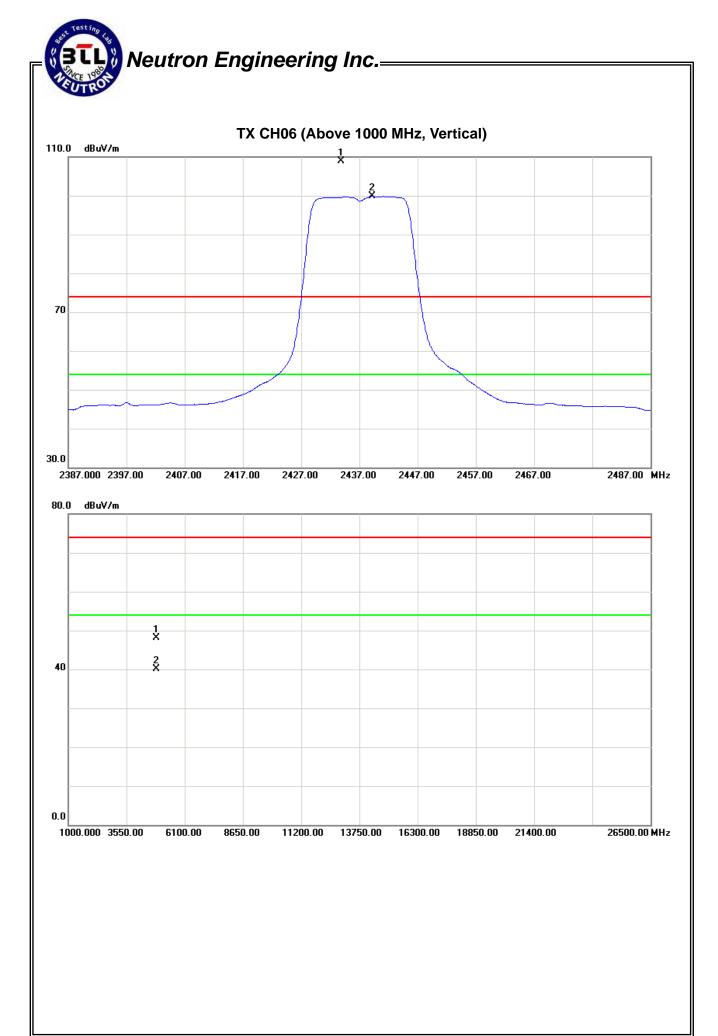


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freq. Ant.Pol.	Reading		Ant./CF	Act.		Limit			
rieq.	Ant.Foi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.20	V	76.62	67.62	32.22	108.84	99.84			X/F
4874.02	V	42.62	34.65	5.47	48.09	40.12	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 51 of 136

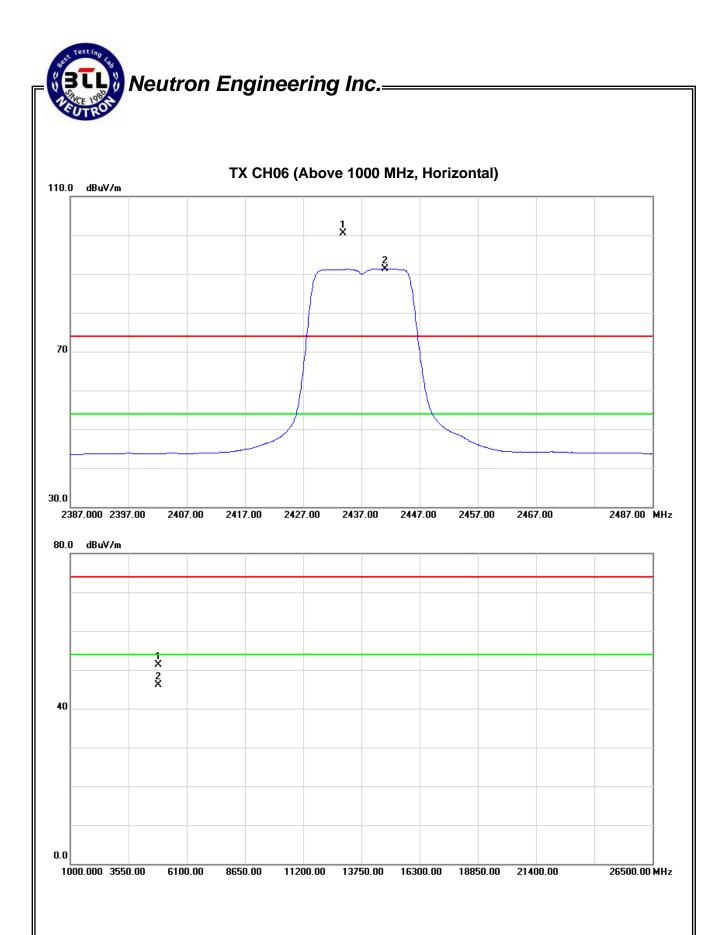


IFUI .	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freq. Ant.Pol.	Reading		Ant./CF	Act.		Lir			
rieq.	Ant.Foi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.10	Н	68.23	59.11	32.23	100.46	91.34			X/F
4873.97	Н	45.76	40.58	5.47	51.23	46.05	74.00	54.00	X/H

- (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) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 53 of 136

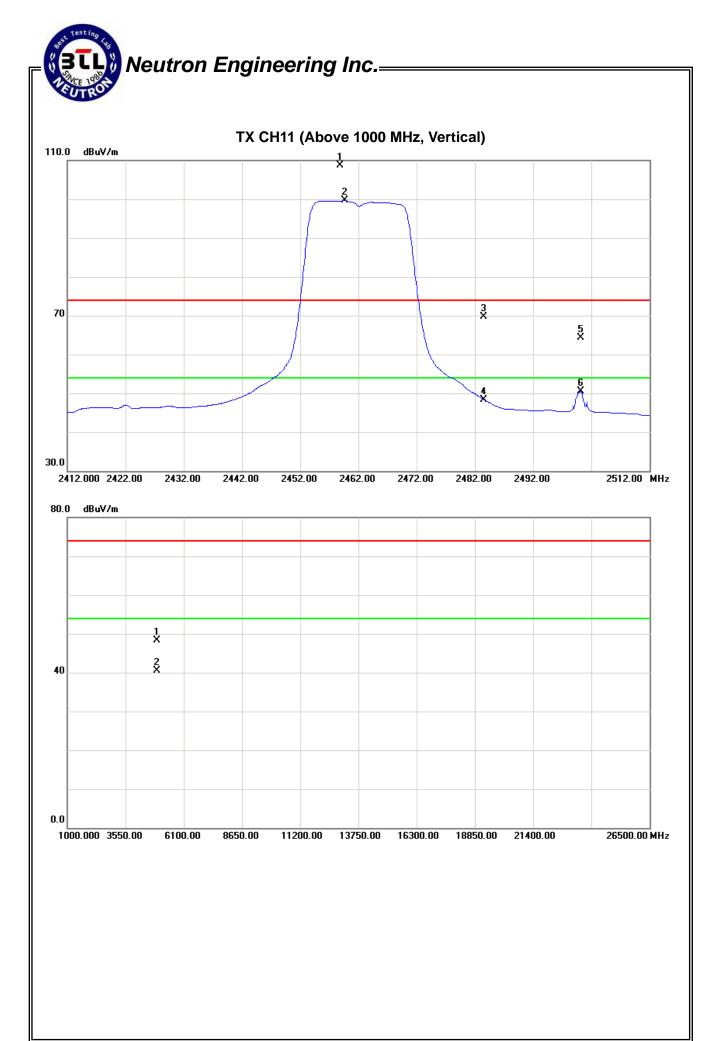


IFUI.	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	t./CF Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2459.60	V	76.49	67.44	32.20	108.69	99.64			X/F
2483.50	V	37.58	16.20	32.17	69.75	48.37	74.00	54.00	X/E
2500.20	V	32.06	18.42	32.16	64.22	50.58	74.00	54.00	X/E
4923.98	V	42.75	34.84	5.65	48.40	40.49	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
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Report No.: NEI-FCCP-1-1208C219 Page 55 of 136

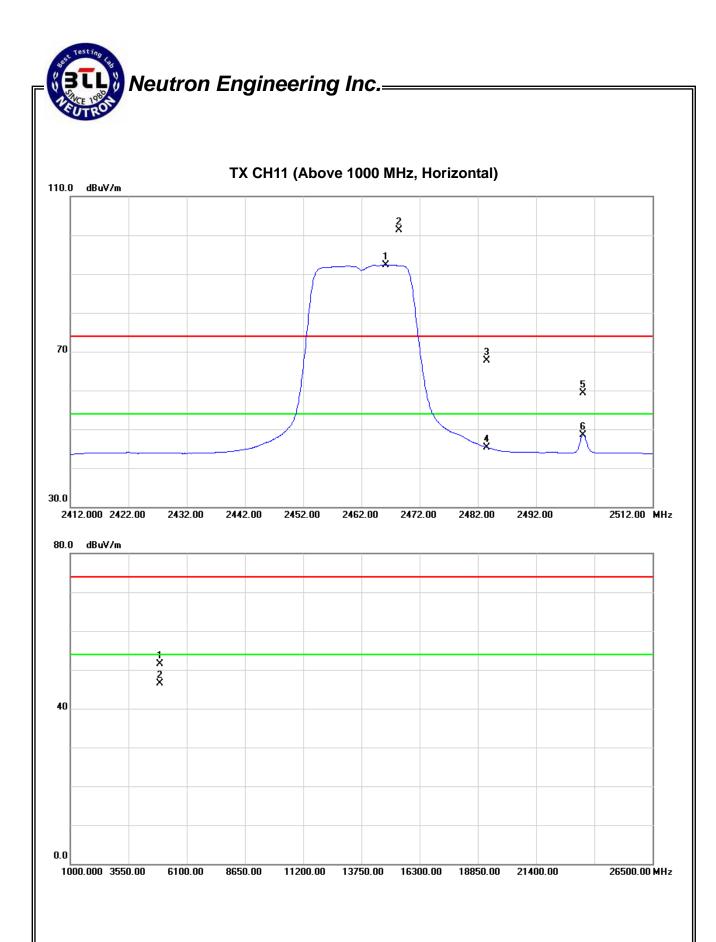


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2468.50	Н	69.20	60.15	32.20	101.40	92.35			X/F
2483.50	Н	35.60	13.22	32.17	67.77	45.39	74.00	54.00	X/E
2500.10	Н	27.19	16.28	32.16	59.35	48.44	74.00	54.00	X/E
4924.06	Н	45.85	40.89	5.65	51.50	46.54	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. 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 or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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Report No.: NEI-FCCP-1-1208C219 Page 57 of 136

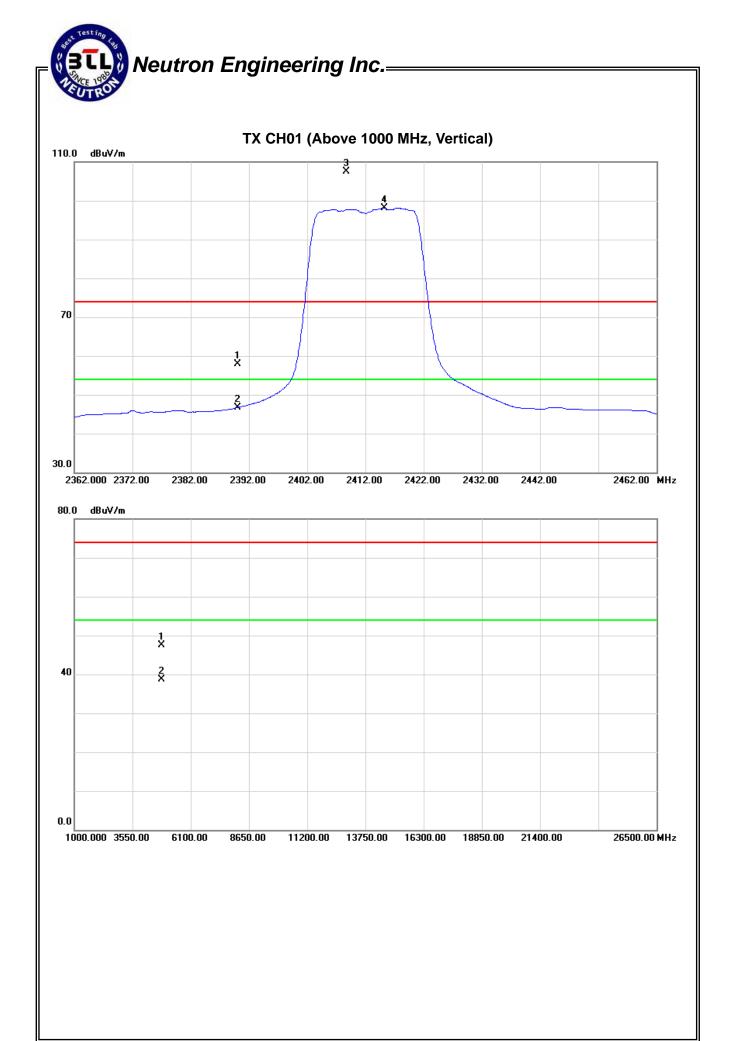


FUI	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	25.57	14.39	32.28	57.85	46.67	74.00	54.00	X/E
2415.20	V	75.21	65.93	32.25	107.46	98.18			X/F
4824.09	V	42.23	33.48	5.29	47.52	38.77	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) 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.
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- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 59 of 136

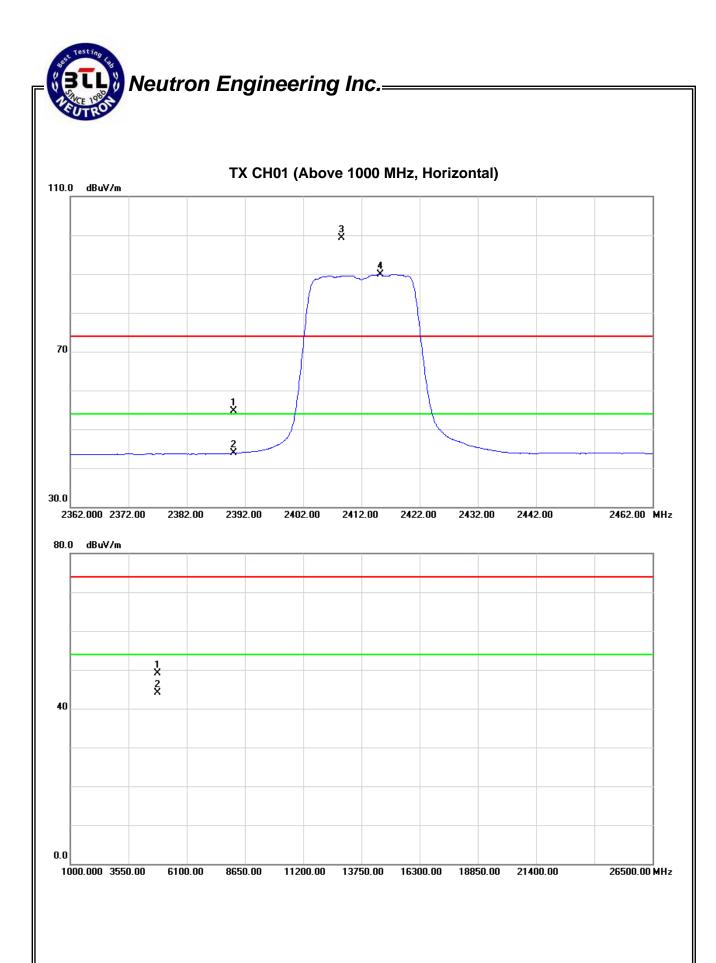


IFUI .	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	22.46	11.54	32.28	54.74	43.82	74.00	54.00	X/E
2415.20	Н	67.10	57.75	32.26	99.36	90.01			X/F
4824.05	Н	43.72	38.76	5.29	49.01	44.05	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
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 m O}$
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- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 61 of 136

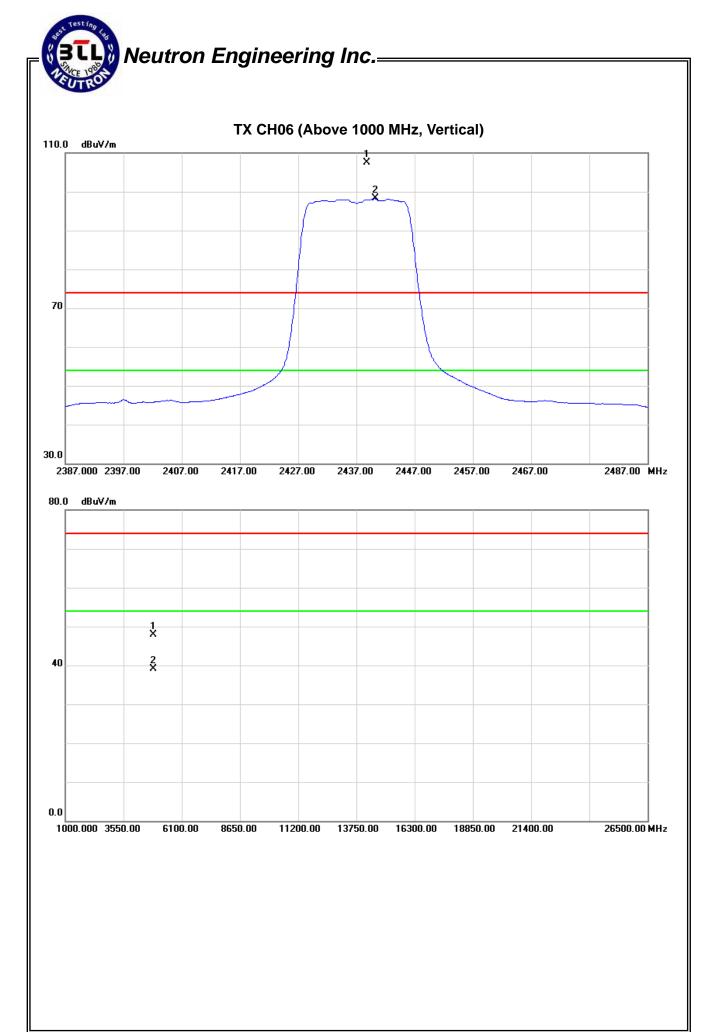


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

Freq. Ant.Pol.	Reading		Ant./CF	Act.		Lir			
Freq.	Ant.Poi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.20	V	75.21	66.01	32.22	107.43	98.23			X/F
4873.96	V	42.35	33.69	5.47	47.82	39.16	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
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Report No.: NEI-FCCP-1-1208C219 Page 63 of 136

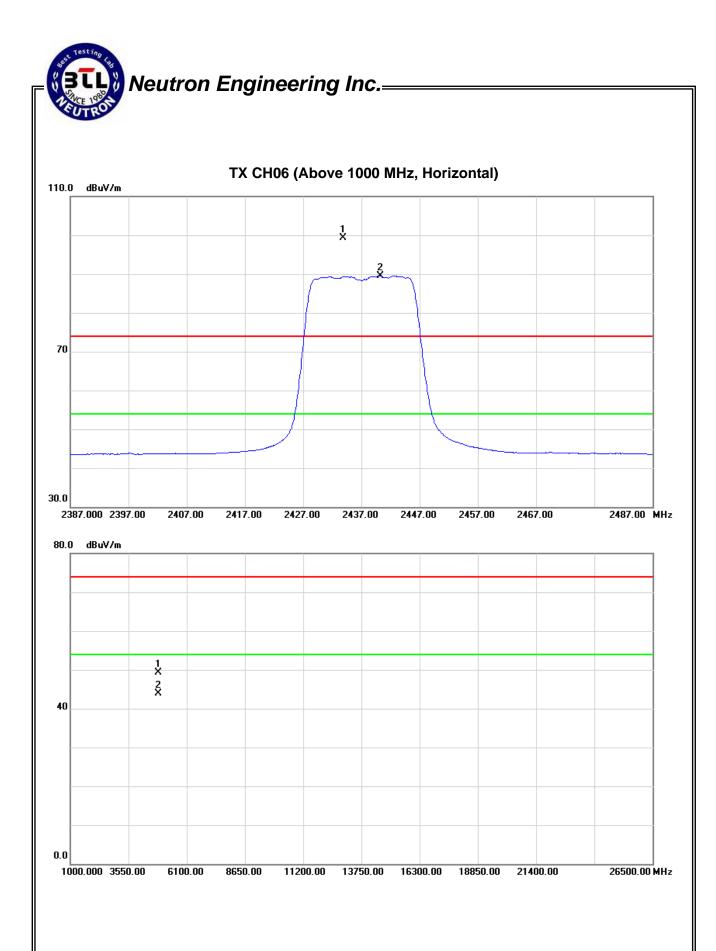


IFUI .	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

Freq. Ant.Pol.	Reading		Ant./CF	Act.		Limit			
rieq.	AIIL.FUI.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.20	H	67.14	57.33	32.22	99.36	89.55			X/F
4874.07	Ι	43.85	38.42	5.47	49.32	43.89	74.00	54.00	X/H

- (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) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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Report No.: NEI-FCCP-1-1208C219 Page 65 of 136

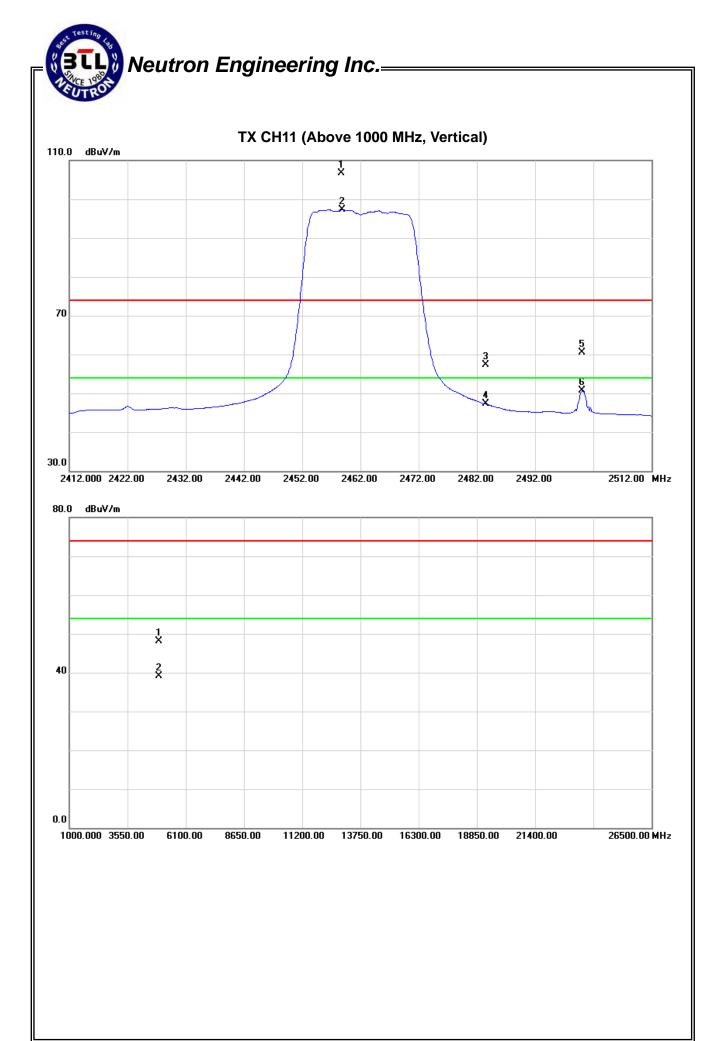


FUI.	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2462MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2458.90	V	74.58	65.08	32.20	106.78	97.28			X/F
2483.50	V	25.06	15.10	32.17	57.23	47.27	74.00	54.00	X/E
2500.10	V	28.30	18.47	32.16	60.46	50.63	74.00	54.00	X/E
4924.04	V	42.47	33.54	5.65	48.12	39.19	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
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 m O}$
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Report No.: NEI-FCCP-1-1208C219 Page 67 of 136

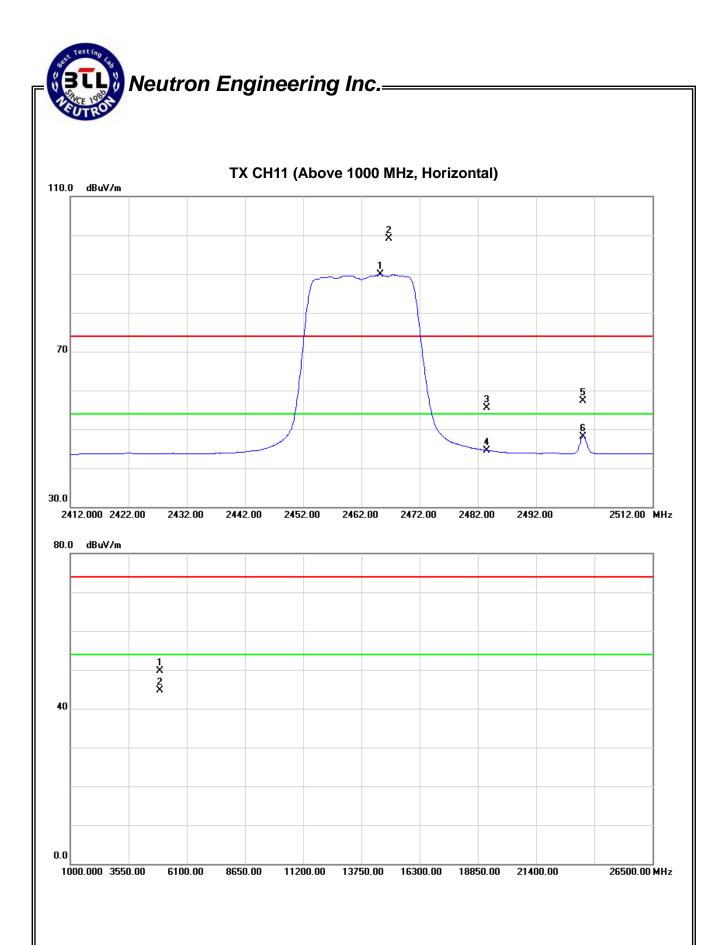


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2462MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	nt./CF Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2465.20	Н	66.92	57.68	32.20	99.12	89.88			X/F
2483.50	Н	23.38	12.40	32.17	55.55	44.57	74.00	54.00	X/E
2500.10	Н	25.18	16.03	32.16	57.34	48.19	74.00	54.00	X/E
4924.10	Н	43.96	39.04	5.65	49.61	44.69	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
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Report No.: NEI-FCCP-1-1208C219 Page 69 of 136

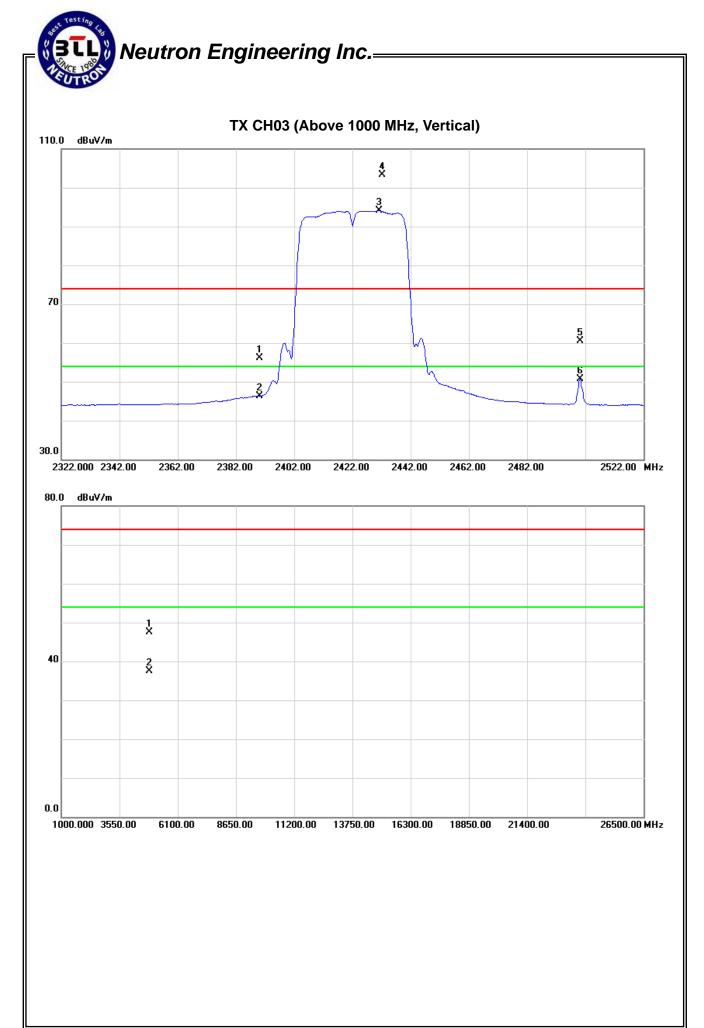


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF Act.		Lir			
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.79	14.08	32.28	56.07	46.36	74.00	54.00	X/E
2431.20	V	71.10	61.78	32.24	103.34	94.02			X/F
2500.20	V	28.42	18.48	32.16	60.58	50.64	74.00	54.00	X/E
4843.96	V	42.08	32.18	5.36	47.44	37.54	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. 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 or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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Report No.: NEI-FCCP-1-1208C219 Page 71 of 136



Report No.: NEI-FCCP-1-1208C219

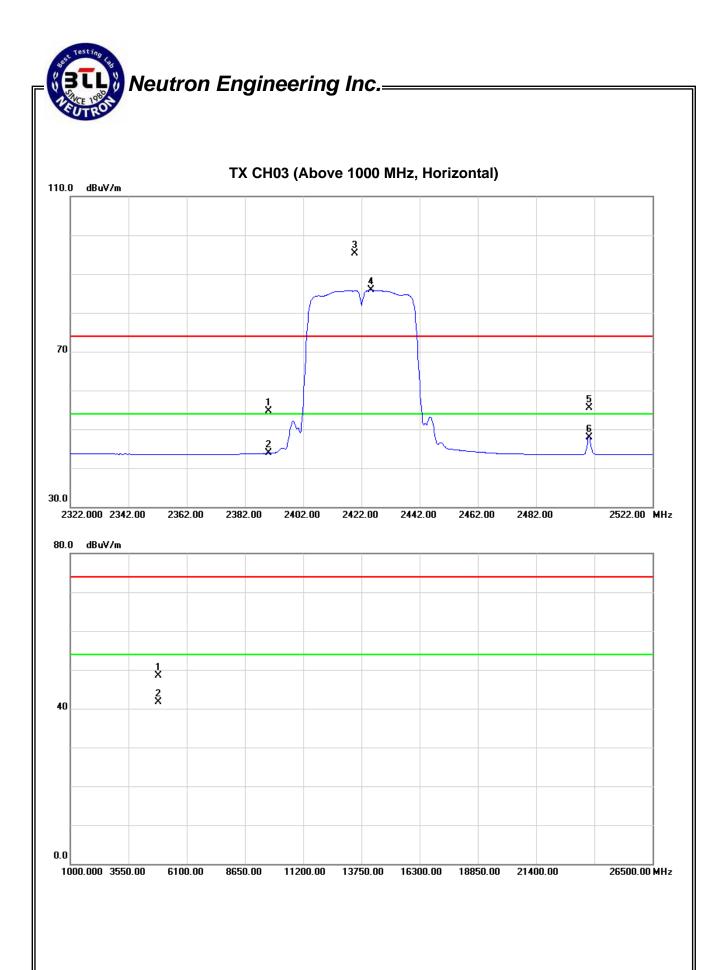
Page 72 of 136

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	22.41	11.53	32.28	54.69	43.81	74.00	54.00	X/E
2425.40	Н	63.04	53.60	32.25	95.29	85.85			X/F
2500.20	Н	23.25	15.80	32.16	55.41	47.96	74.00	54.00	X/E
4844.02	Н	43.16	36.42	5.36	48.52	41.78	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. 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 or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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Report No.: NEI-FCCP-1-1208C219 Page 73 of 136

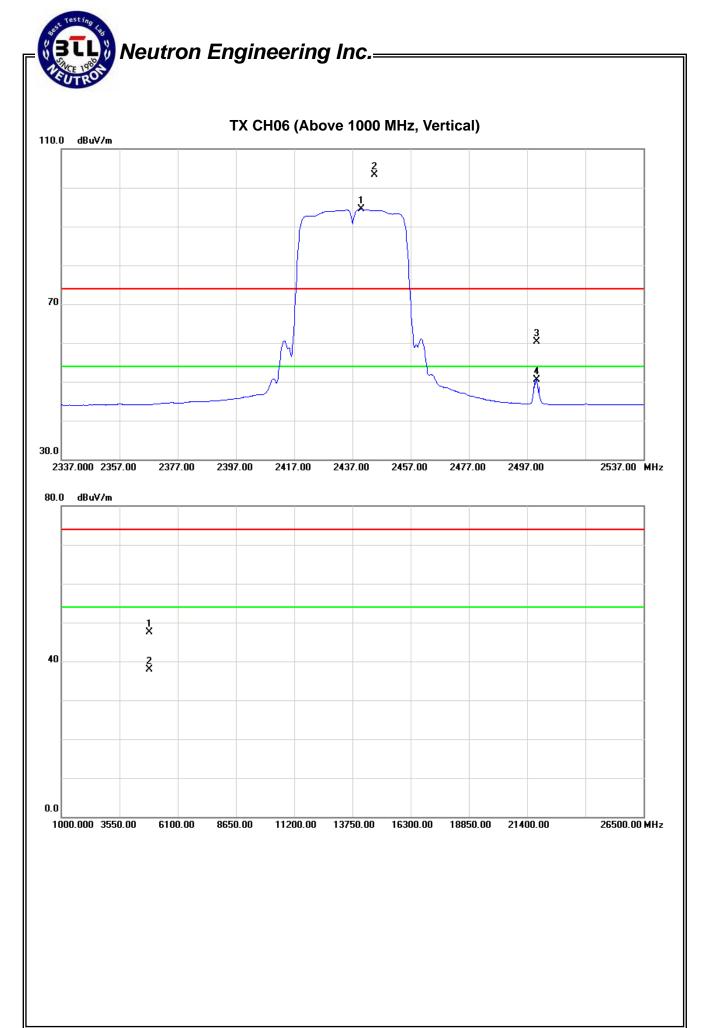


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq. Ant.Pol.		Rea	ding	Ant./CF	A	ct.	Lir	nit	
Freq.	AIIL.FUI.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.00	V	71.10	62.20	32.22	103.32	94.42			X/F
2500.20	V	28.08	18.44	32.16	60.24	50.60	74.00	54.00	X/E
4874.08	V	42.12	32.52	5.47	47.59	37.99	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 75 of 136

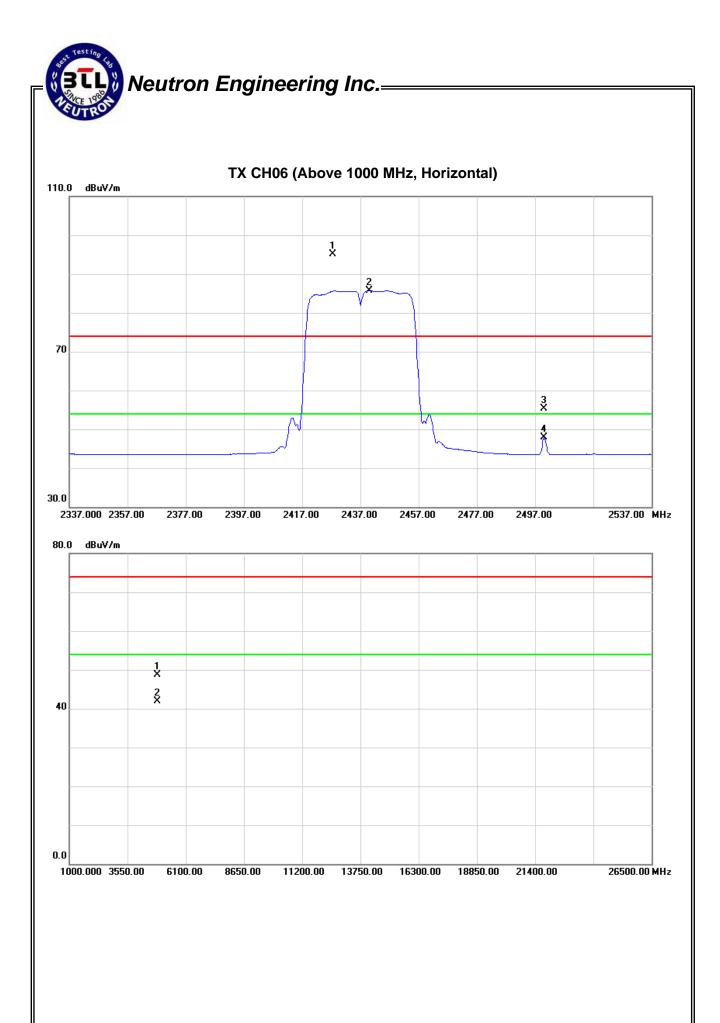


IFUI .	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq. Ant.Pol.		Rea	ding	Ant./CF	A	ct.	Lir	nit	
rieq.	Ant.Poi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.00	Н	62.95	53.48	32.24	95.19	85.72			X/F
2500.00	Н	23.13	15.78	32.16	55.29	47.94	74.00	54.00	X/E
4874.06	Н	43.28	36.53	5.47	48.75	42.00	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 77 of 136

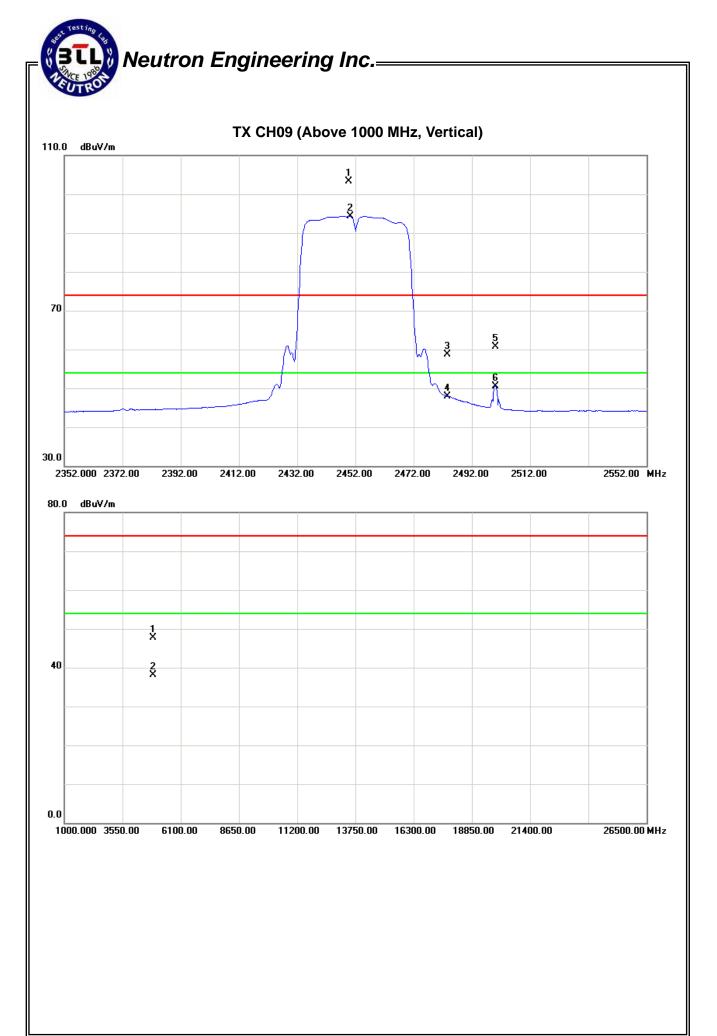


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Lir	Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2450.20	V	71.14	62.07	32.21	103.35	94.28			X/F
2483.50	V	26.53	15.80	32.17	58.70	47.97	74.00	54.00	X/E
2500.20	V	28.51	18.44	32.16	60.67	50.60	74.00	54.00	X/E
4903.98	V	42.18	32.47	5.58	47.76	38.05	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. 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 or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 79 of 136

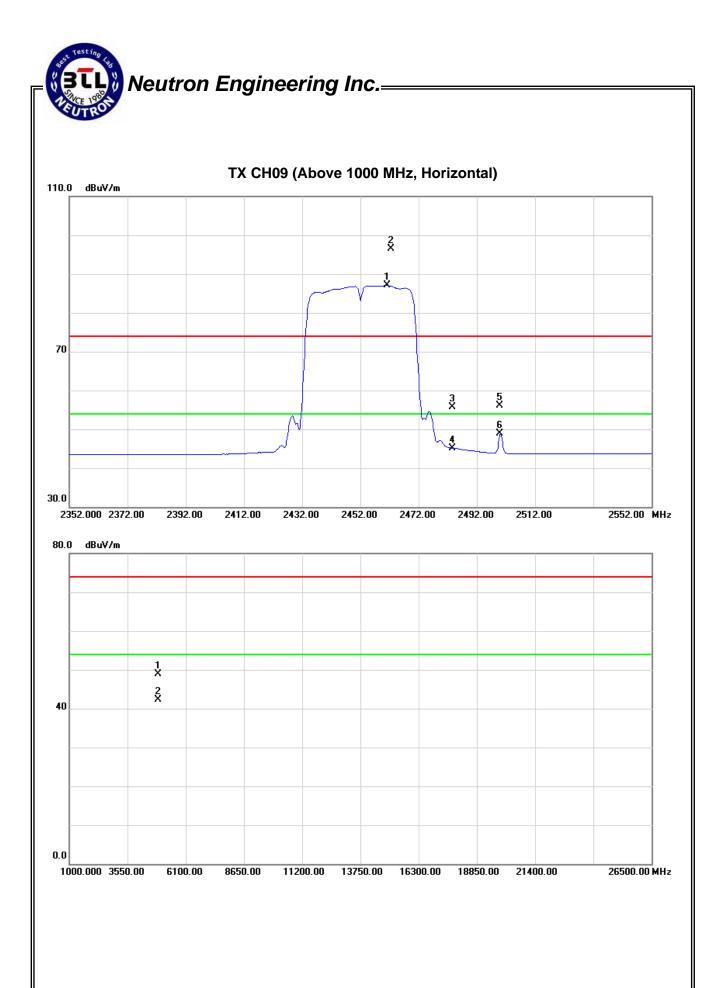


EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	25 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.60	Н	64.25	54.87	32.20	96.45	87.07			X/F
2483.50	Н	23.56	12.98	32.17	55.73	45.15	74.00	54.00	X/E
2499.90	Н	23.97	16.72	32.16	56.13	48.88	74.00	54.00	X/E
4904.06	Н	43.28	36.68	5.58	48.86	42.26	74.00	54.00	X/H

- (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) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1208C219 Page 81 of 136



Page 82 of 136



4.2.10. EUT TEST PHOTO

Radiated Measurement Photos 9K~ 30MHz





Report No.: NEI-FCCP-1-1208C219 Page 83 of 136

Radiated Measurement Photos 30MHz~1000MHz





Report No.: NEI-FCCP-1-1208C219 Page 84 of 136

Radiated Measurement Photos Above 1000MHz





Report No.: NEI-FCCP-1-1208C219 Page 85 of 136

5. BANDWIDTH TEST

5.1 Applied procedures / limit

7. Applica procedures 7 lilling								
FCC Part15 (15.247) , Subpart C								
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS				

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.26.2011	Nov.25.2012

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

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 5 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

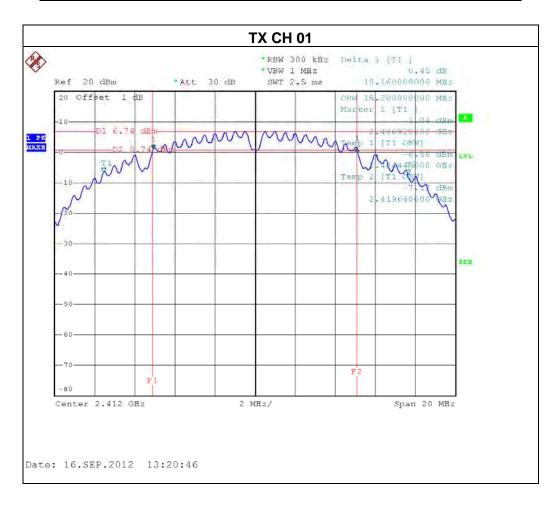
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FCCP-1-1208C219 Page 86 of 136

5.1.6 TEST RESULTS

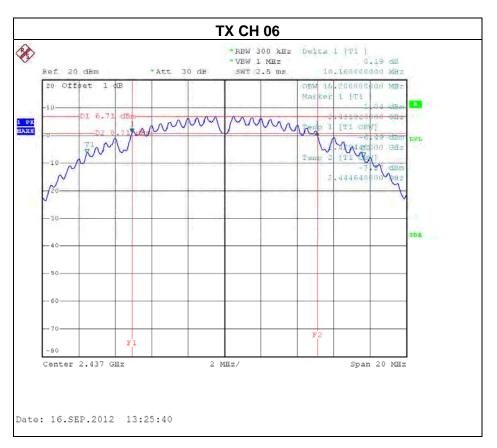
EUT:	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE /CH01, CH06, CH11			

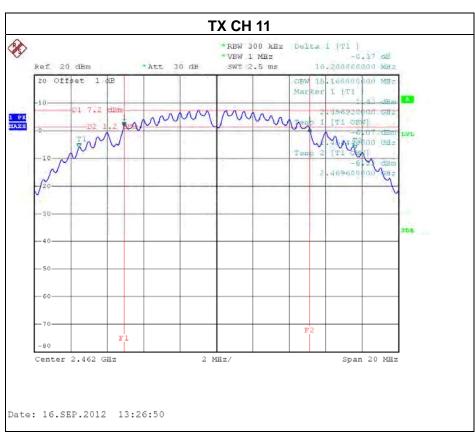
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	10.16	>=500KHz
CH06	2437	10.16	>=500KHz
CH11	2462	10.20	>=500KHz



Report No.: NEI-FCCP-1-1208C219 Page 87 of 136







Report No.: NEI-FCCP-1-1208C219 Page 88 of 136

EUT:	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

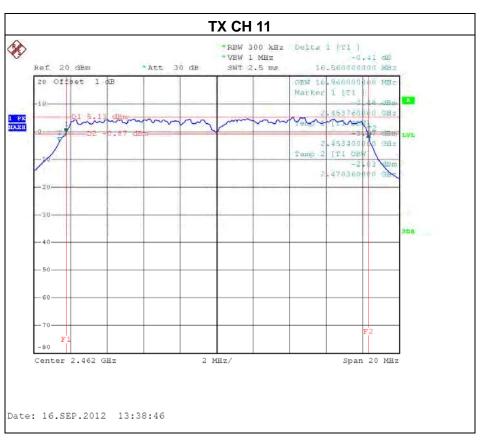
Test Channel	Frequency	Bandwidth	LIMIT
1001 0110111101	(MHz)	(MHz)	(MHz)
CH01	2412	16.60	>=500KHz
CH06	2437	16.56	>=500KHz
CH11	2462	16.56	>=500KHz



Report No.: NEI-FCCP-1-1208C219 Page 89 of 136



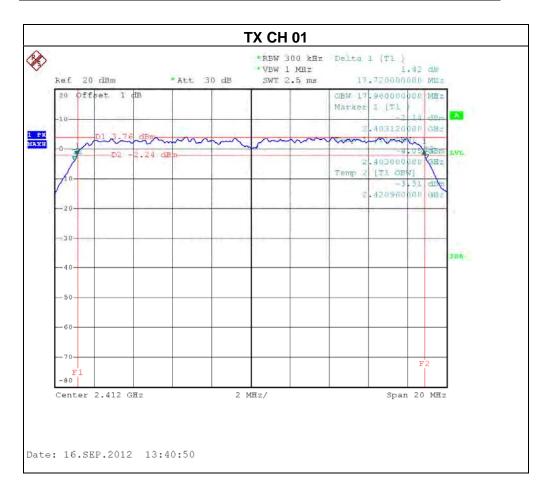




Report No.: NEI-FCCP-1-1208C219 Page 90 of 136

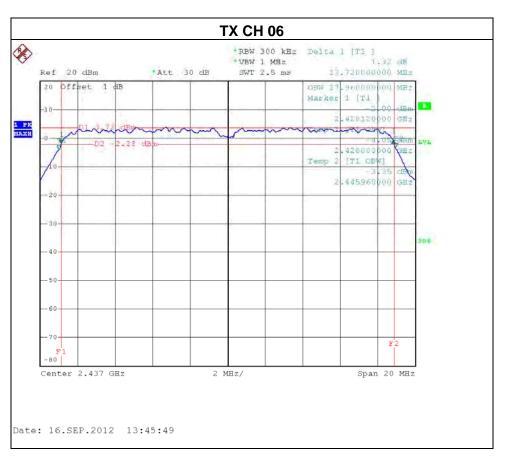
EUT:	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE -20MHz/ CH01, CH06, CH11		

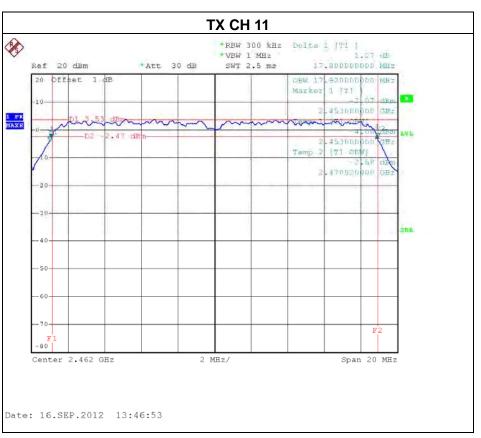
Test Channel	Frequency	Bandwidth	LIMIT
Test orialities	(MHz)	(MHz)	(MHz)
CH01	2412	17.72	>=500KHz
CH06	2437	17.72	>=500KHz
CH11	2462	17.80	>=500KHz



Report No.: NEI-FCCP-1-1208C219 Page 91 of 136



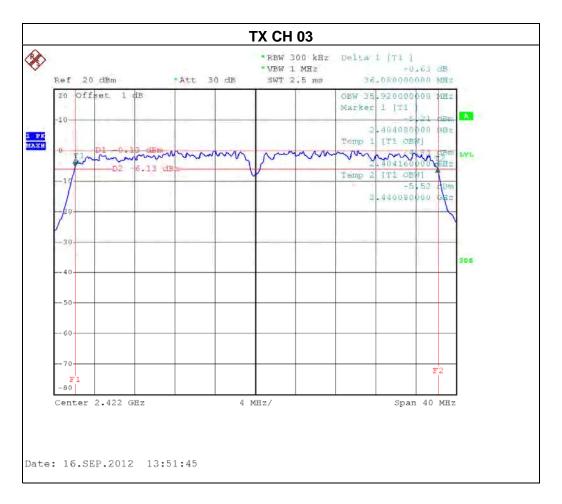




Report No.: NEI-FCCP-1-1208C219 Page 92 of 136

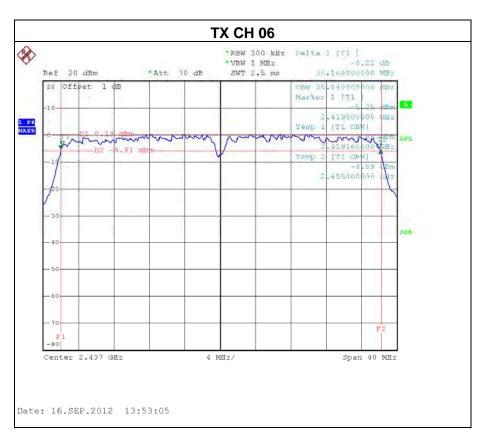
EUT:	Wireless N 150 Cloud Access Point	Model Name. :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE -40MHz/ CH03, CH06, CH09		

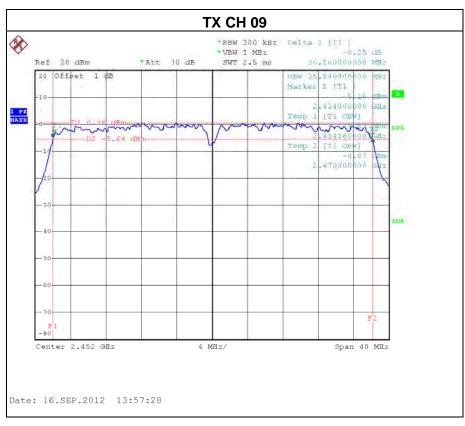
Test Channel	Frequency	Bandwidth	LIMIT
	(MHz)	(MHz)	(MHz)
CH03	2422	36.08	>=500KHz
CH06	2437	36.16	>=500KHz
CH09	2452	36.16	>=500KHz



Report No.: NEI-FCCP-1-1208C219 Page 93 of 136







Report No.: NEI-FCCP-1-1208C219 Page 94 of 136

DESIGNATION OF EMISSIONS (INCLDUING NECESSARY BANDWIDTH AND CLASSIFICATION

Description of Emission	Formula	Calculation	Bandwidth	Designationof Emission
Phase shift keying is used tomodulate a carrier with a digitalbit stream.	Bn = 2BK K = 1 (typically)		= 3000 000/3	2M00G1WEN

DESIGNATION OF EMISSIONS (INCLDUING NECESSARY BANDWIDTH AND CLASSIFICATION

Description of Emission	Formula	Calculation	Bandwidth	Designationof Emission
Frequency shift keying is used tomodulate a carrier with a digitalbit stream.	Bn = 2DK+B K = 1 (typically)	A system is digitally modulated at a rate of 1 megabits per second. The carrier is frequency shift keyed and 2 signalling states are used. D is the peak frequency deviation.	$B = R/(\log_2 2)$ = 1000 000/1 = 1000 kilobaud	6M00F1WCN

Report No.: NEI-FCCP-1-1208C219 Page 95 of 136

5.1.7. EUT TEST PHOTO

BANDWIDTH Measurement Photos





Report No.: NEI-FCCP-1-1208C219 Page 96 of 136

6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

Applied procedures / illinit						
FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS		

6.1.1 MEASUREMENT INSTRUMENTS LIST

I	tem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
	1	P-series Power meter	Agilent	N1911A	MY4510047 3	Nov.01.2011	May.04.2013
	2	Wireband Power sensor	Agilent	N1921A	MY5110004 1	Nov.01.2011	May.04.2013

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

6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 1MHz, VBW=3MHz, Sample detector, Sweep time = Auto.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP

EUT	Power Meter
	T GWGI WIGGI

6.1.5 EUT OPERATION 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.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

Report No.: NEI-FCCP-1-1208C219 Page 97 of 136

6.1.6 TEST RESULTS

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	19.57	30	1
CH06	2437 MHz	19.64	30	1
CH11	2462 MHz	19.76	30	1

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	24.25	30	1
CH06	2437 MHz	24.22	30	1
CH11	2462 MHz	24.13	30	1

Report No.: NEI-FCCP-1-1208C219 Page 98 of 136

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	23.65	30	1
CH06	2437 MHz	23.74	30	1
CH11	2462 MHz	23.38	30	1

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422 MHz	23.10	30	1
CH06	2437 MHz	23.25	30	1
CH09	2452 MHz	23.51	30	1

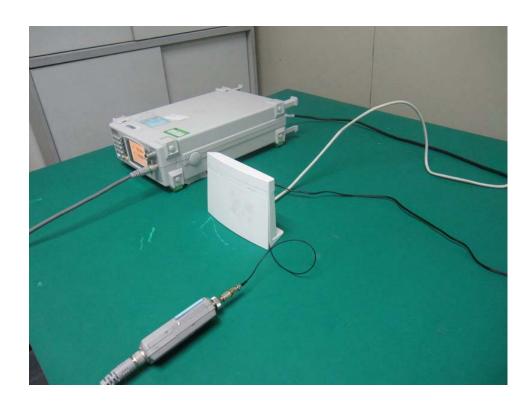
Report No.: NEI-FCCP-1-1208C219 Page 99 of 136



6.1.7. EUT TEST PHOTO

MAXIMUM OUTPUT POWER Measurement Photos





Report No.: NEI-FCCP-1-1208C219 Page 100 of 136

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.26.2011	Nov.25.2012

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

7.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 10 ms.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.5 EUT OPERATION 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.

Report No.: NEI-FCCP-1-1208C219 Page 101 of 136

7.1.6 TEST RESULTS

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

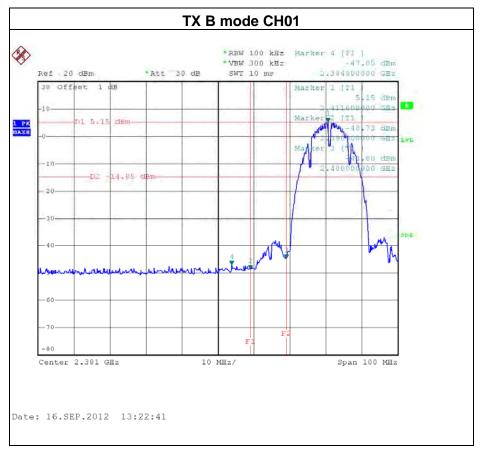
Channel of Worst Data: CH01						
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth outside the frequency band.				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)			
2400.00	-41.80	2488.80	-45.91			
Popult						

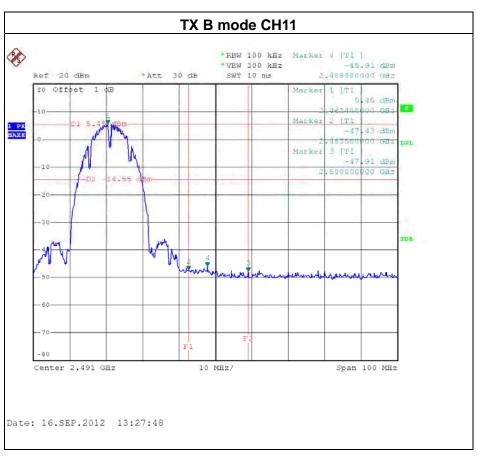
Result

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

Report No.: NEI-FCCP-1-1208C219 Page 102 of 136

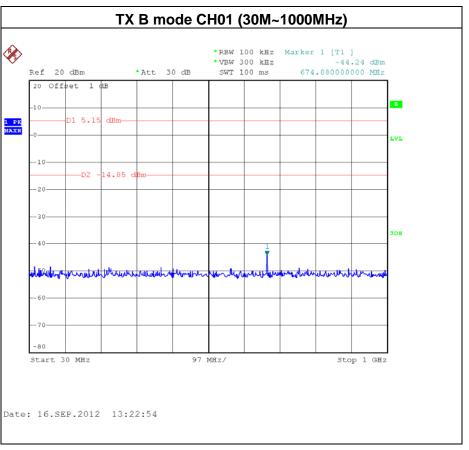


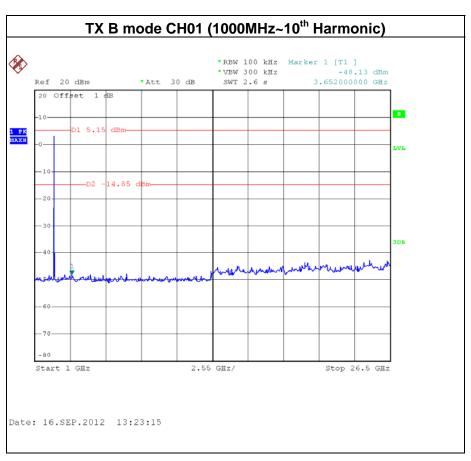




Report No.: NEI-FCCP-1-1208C219 Page 103 of 136

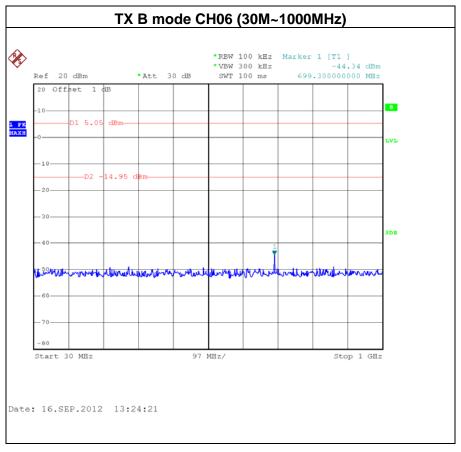


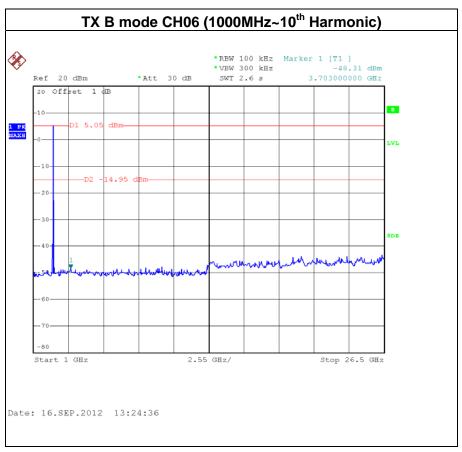




Report No.: NEI-FCCP-1-1208C219 Page 104 of 136

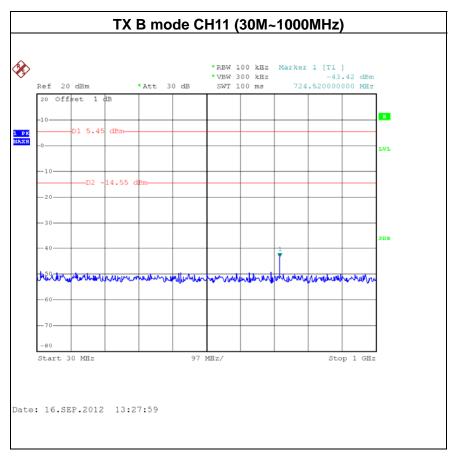


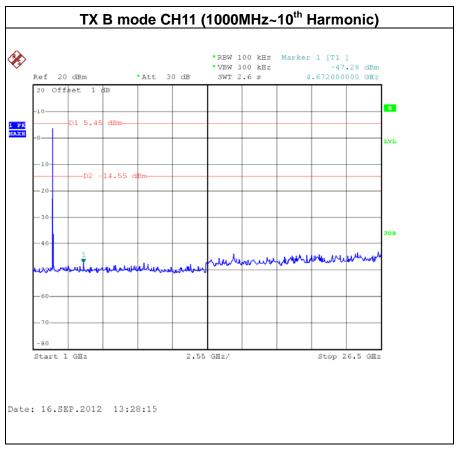




Report No.: NEI-FCCP-1-1208C219 Page 105 of 136







Report No.: NEI-FCCP-1-1208C219 Page 106 of 136



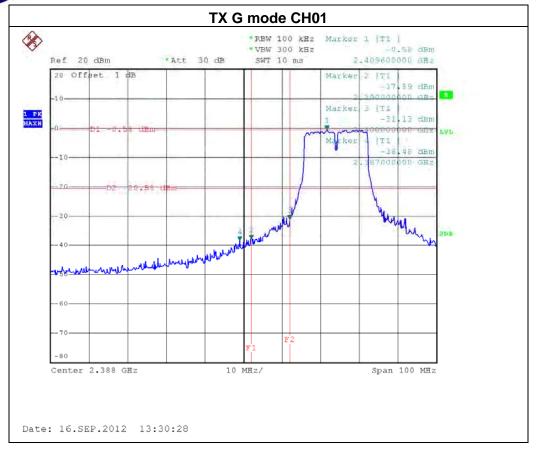
EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE / CH01, CH06 , CH11		

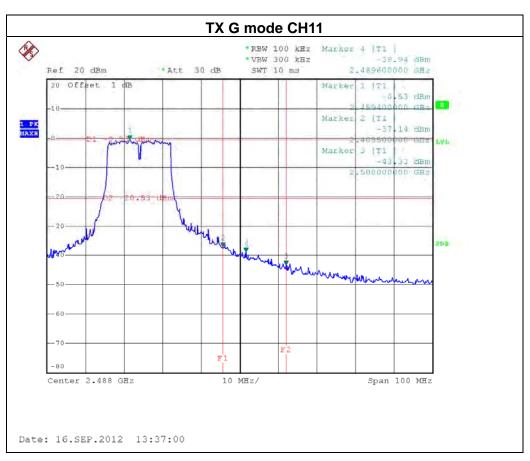
Channel of Worst Data: CH01						
The max. radio frequence bandwidth within the		The max. radio frequency power in any 100 kHz bandwidth outside the frequency band.				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)			
2400.00	-31.13	2483.50	-37.14			
Result						

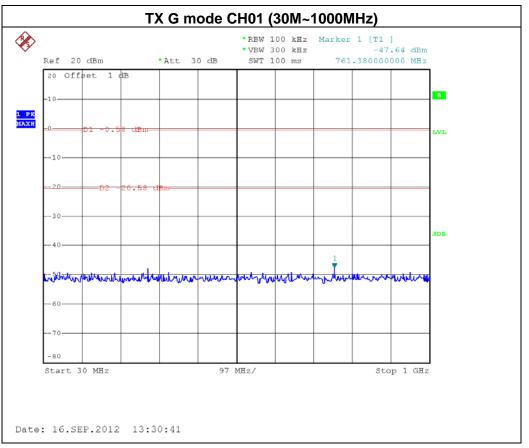
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

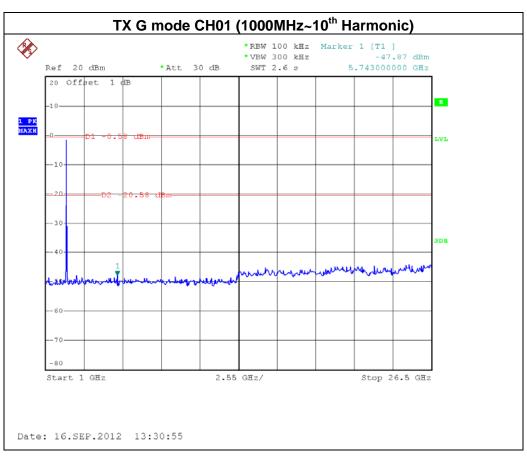
Report No.: NEI-FCCP-1-1208C219 Page 107 of 136

Neutron Engineering Inc.

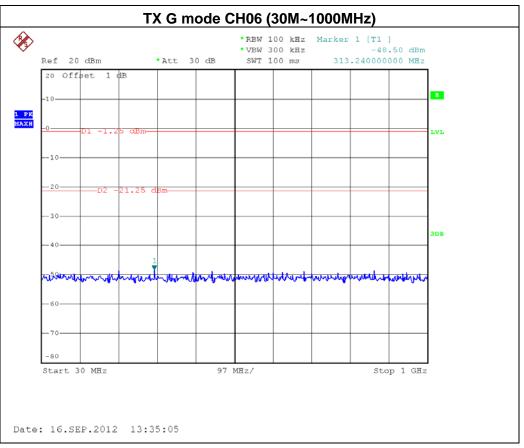


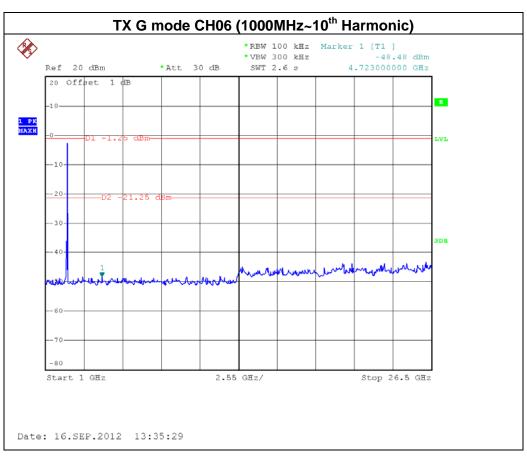




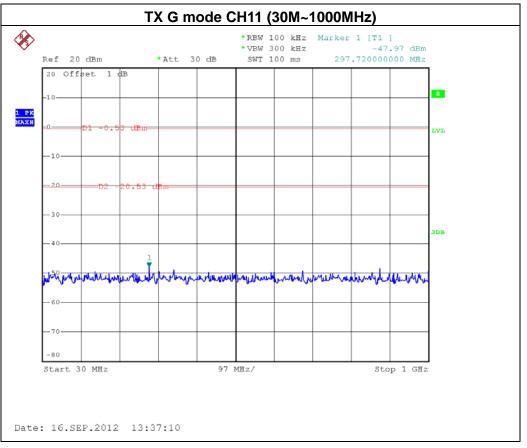


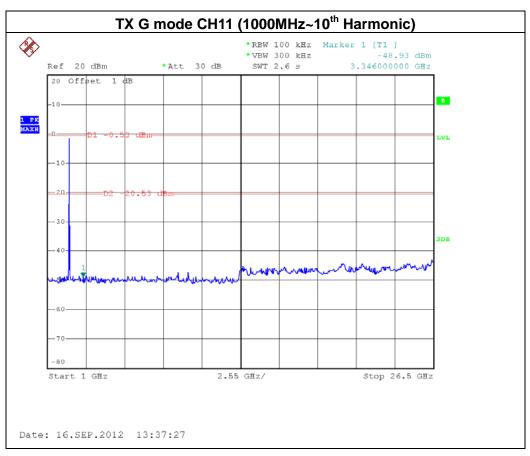
Report No.: NEI-FCCP-1-1208C219 Page 109 of 136





Report No.: NEI-FCCP-1-1208C219 Page 110 of 136





Report No.: NEI-FCCP-1-1208C219 Page 111 of 136

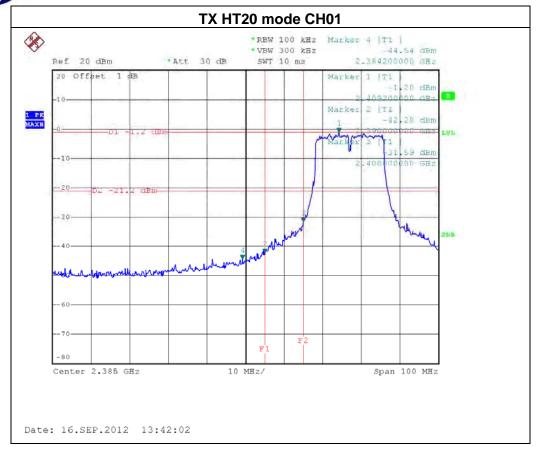


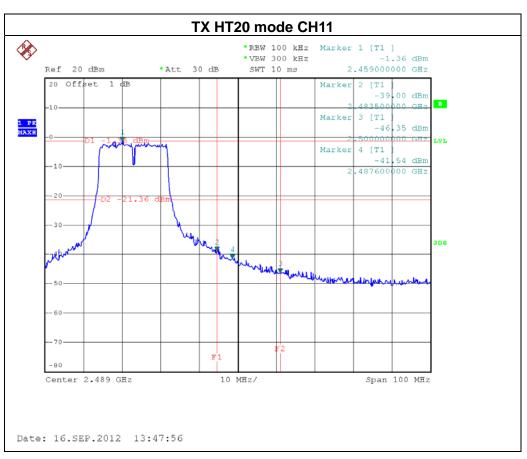
EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE / CH01, CH06, CH11		

Channel of Worst Data: CH01				
The max. radio frequence bandwidth within the		The max. radio frequence bandwidth within the		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00 -31.59 2483.50 -39.00				
Result				

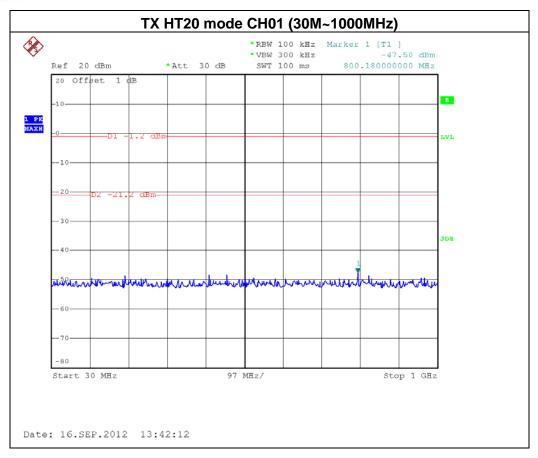
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

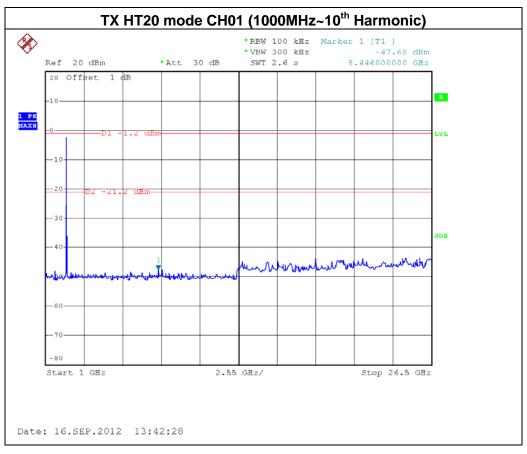
Report No.: NEI-FCCP-1-1208C219 Page 112 of 136



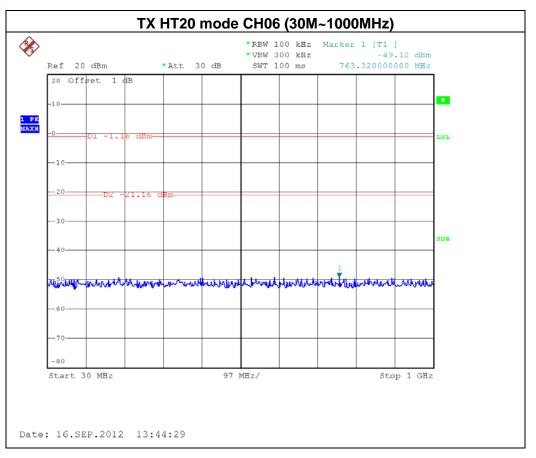


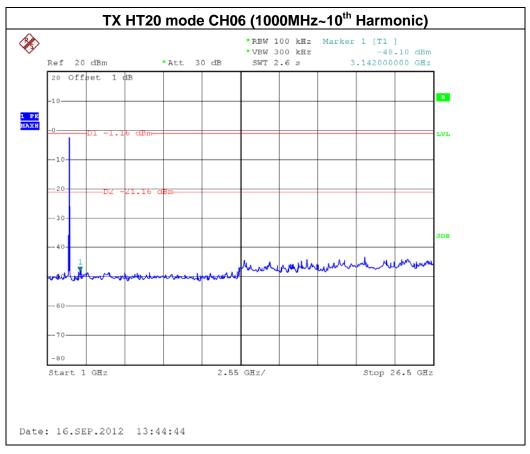
Page 113 of 136



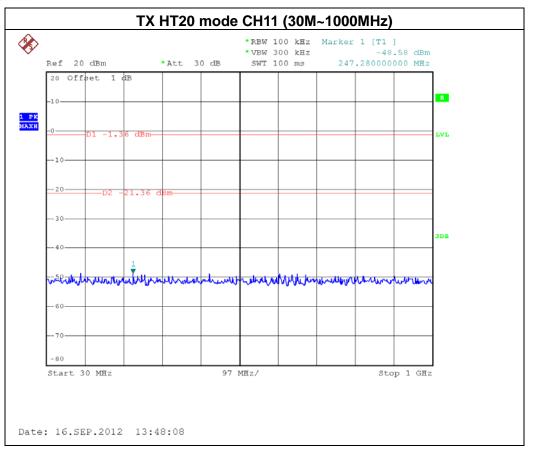


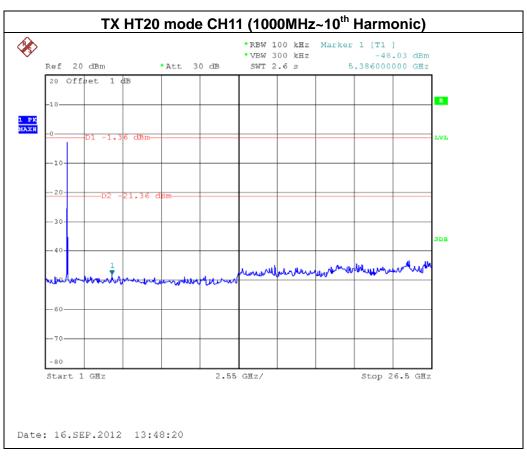
Report No.: NEI-FCCP-1-1208C219 Page 114 of 136





Report No.: NEI-FCCP-1-1208C219 Page 115 of 136





Report No.: NEI-FCCP-1-1208C219 Page 116 of 136

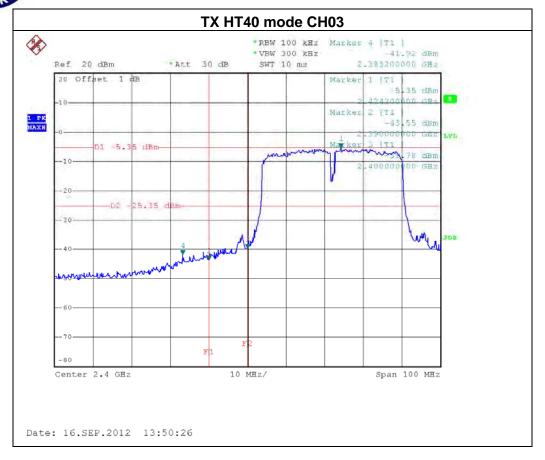


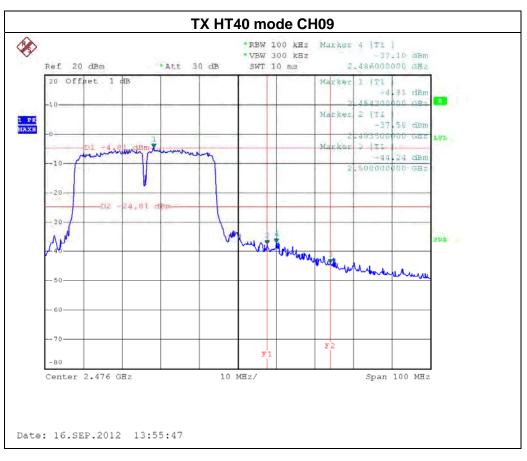
EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09		

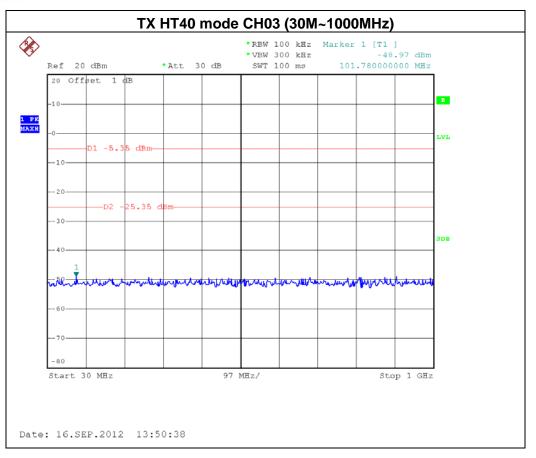
Channel of Worst Data: CH09				
The max. radio frequence bandwidth within the		The max. radio frequence bandwidth outside t		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00 -39.78 2486.00 -37.10				
Result				

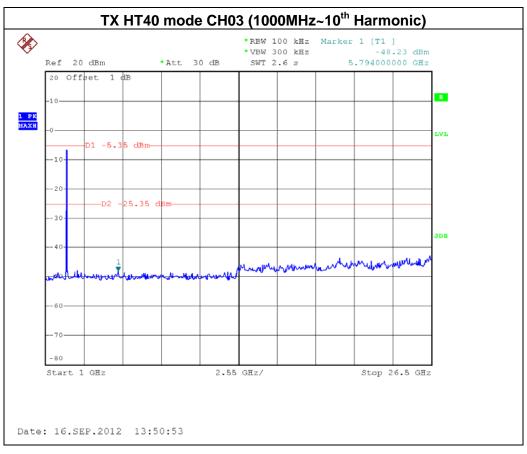
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

Report No.: NEI-FCCP-1-1208C219 Page 117 of 136

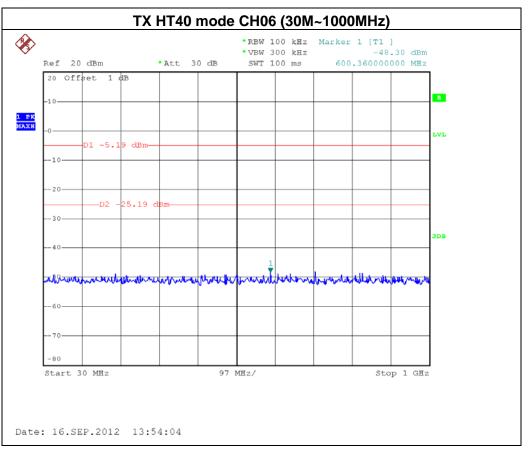


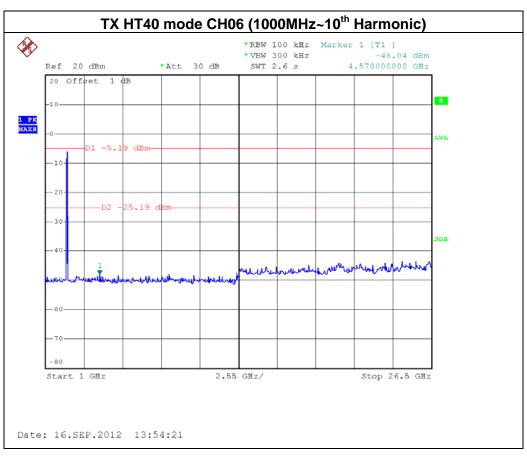




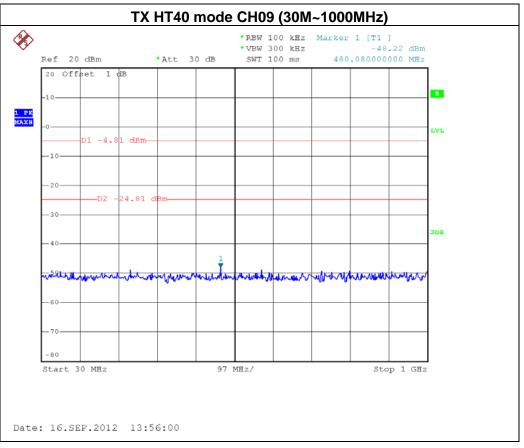


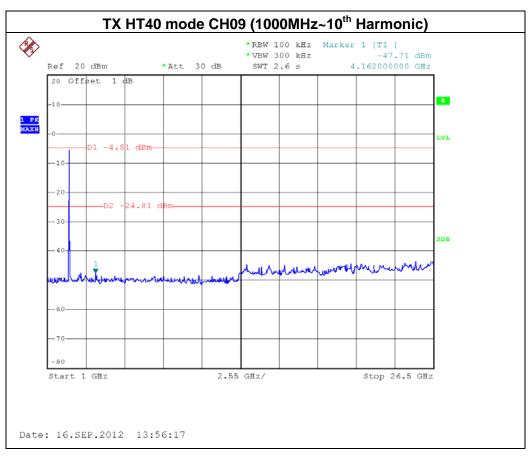
Report No.: NEI-FCCP-1-1208C219 Page 119 of 136





Report No.: NEI-FCCP-1-1208C219 Page 120 of 136





Report No.: NEI-FCCP-1-1208C219 Page 121 of 136



7.1.7. EUT TEST PHOTO

ANTENNA CONDUCTED SPURIOUS EMISSION Measurement Photos





Report No.: NEI-FCCP-1-1208C219 Page 122 of 136

8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

	FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz) Result						
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.26.2011	Nov.25.2012

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

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=100KHz, VBW=300 KHz, Sweep time = 2.5ms.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.5 EUT OPERATION 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.

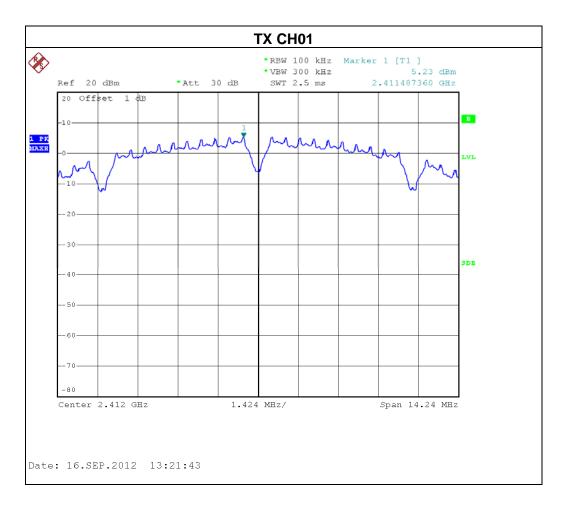
Report No.: NEI-FCCP-1-1208C219 Page 123 of 136

8.1.6 TEST RESULTS

EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

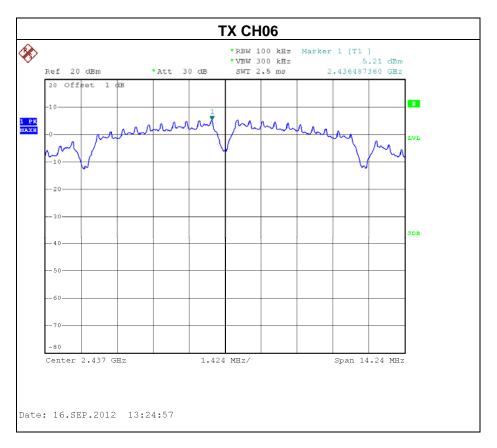
Test Channel	Frequency	Power Density	LIMIT
rest oname	(MHz)	(dBm)	(dBm)
CH01	2412 MHz	-10.00	8
CH06	2437 MHz	-10.02	8
CH11	2462 MHz	-9.65	8

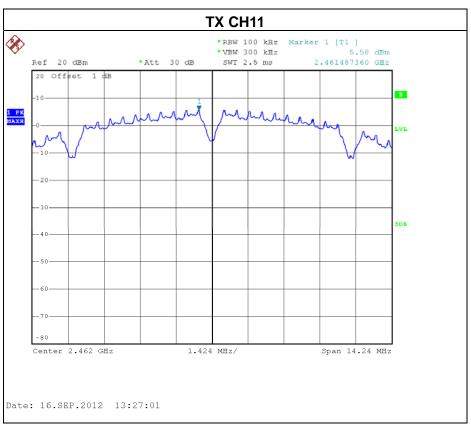
Note: Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (3 kHz/100kHz = -15.2 dB).



Report No.: NEI-FCCP-1-1208C219 Page 124 of 136



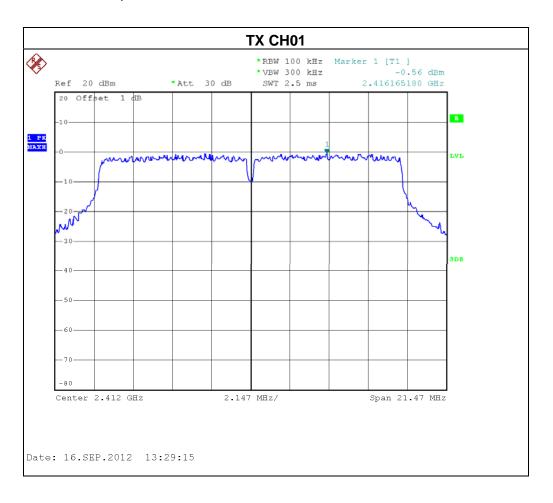




EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

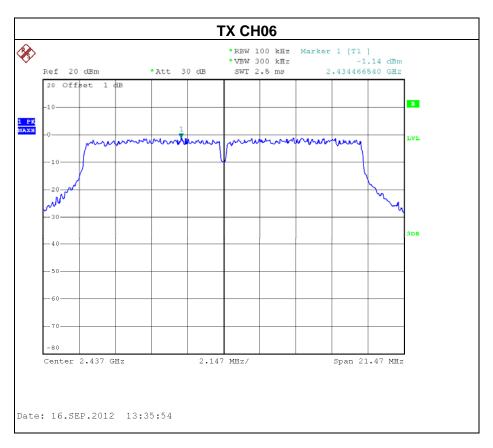
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-15.79	8
CH06	2437 MHz	-16.37	8
CH11	2462 MHz	-15.68	8

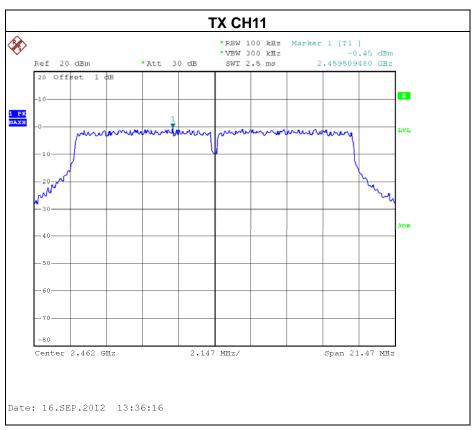
Note: Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (3 kHz/100kHz = -15.2 dB).



Report No.: NEI-FCCP-1-1208C219 Page 126 of 136



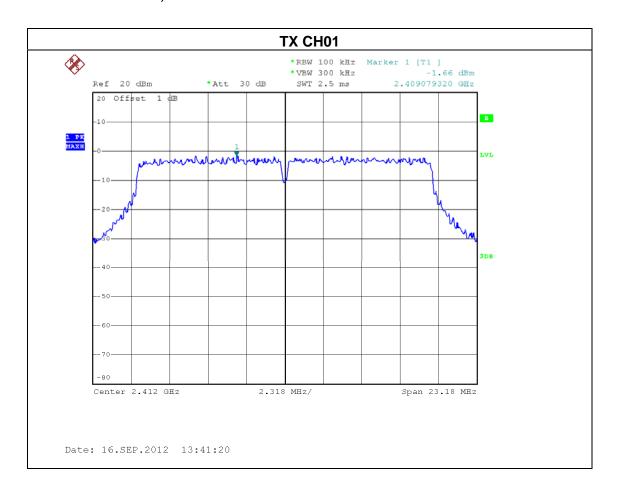




EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-20MHz /CH01, CH06, CH11		

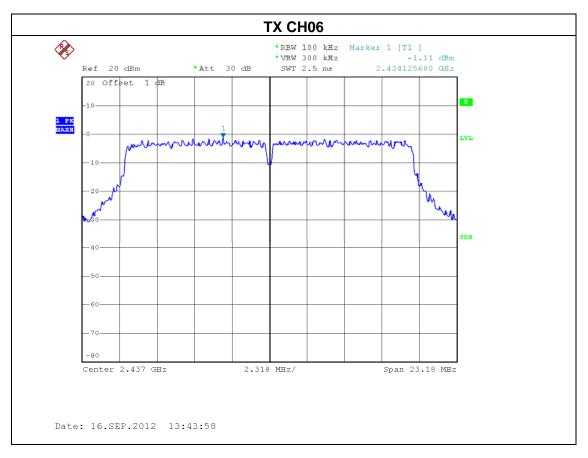
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-16.89	8
CH06	2437 MHz	-16.34	8
CH11	2462 MHz	-16.62	8

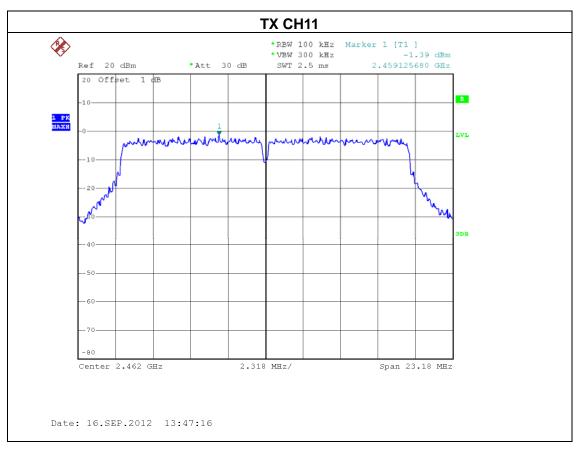
Note: Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (3 kHz/100kHz = -15.2 dB).



Report No.: NEI-FCCP-1-1208C219 Page 128 of 136



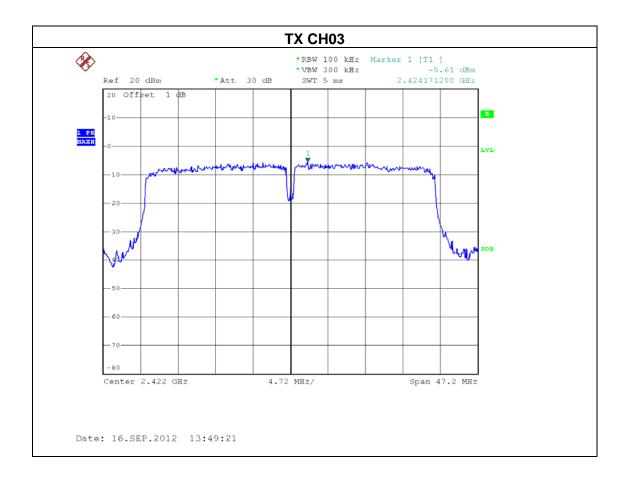




EUT:	Wireless N 150 Cloud Access Point	Model Name :	DAP-1160L	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N MODE-40MHz /CH03, CH06, CH09			

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422 MHz	-20.84	8
CH06	2437 MHz	-20.43	8
CH09	2452 MHz	-20.14	8

Note: Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (3 kHz/100kHz = -15.2 dB).



Report No.: NEI-FCCP-1-1208C219 Page 130 of 136







8.1.7. EUT TEST PHOTO

POWER SPECTRAL DENSITY Measurement Photos





Report No.: NEI-FCCP-1-1208C219 Page 132 of 136



9. EUT PHOTO





Report No.: NEI-FCCP-1-1208C219 Page 133 of 136

Adapter: D-Link / AMS9-1201000FU2





Report No.: NEI-FCCP-1-1208C219 Page 134 of 136

Adapter: D-Link / CAP012121US





Report No.: NEI-FCCP-1-1208C219 Page 135 of 136

Adapter: gent Power / GPE1016-12120-2A





Report No.: NEI-FCCP-1-1208C219 Page 136 of 136