

FCC PART 15E TEST REPORT FOR CERTIFICATION

On Behalf of

TP-LINK TECHNOLOGIES CO., LTD.

N600 Wireless Dual Band Gigabit Access Point

Model Number: EAP220

FCC ID: TE7EAP220

Prepared for : TP-LINK TECHNOLOGIES CO., LTD.

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Report Number : ACS-F15079

Date of Test : Mar.13 ~ 15, 2015

Date of Report : Apr.09, 2015

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TEST REPORT CERTIFICATION

Applicant : TP-LINK TECHNOLOGIES CO., LTD.
 Manufacturer : TP-LINK TECHNOLOGIES CO., LTD.
 EUT Description : N600 Wireless Dual Band Gigabit Access Point
 FCC ID : TE7EAP220
 (A) MODEL NO. : EAP220
 (B) SERIAL NO. : N/A
 (C) Power Supply : DC 12V
 (D) TEST VOLTAGE : DC 12V From Adapter Input AC 120V/60Hz

Tested for comply with:

FCC Rules and Regulations Part 15 Subpart E: 2014

Test procedure used:

KDB789033D02 v01: KDB644545D01

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart E requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Mar.13 ~ 15, 2015 Report of date: Apr.09, 2015

Prepared by : April Tseng / Assistant Reviewed by : Sunny Lu / Assistant Manager

 信華科技(深圳)有限公司
 Audix Technology (Shenzhen) Co., Ltd.
 EMC 部門報告專用章

Stamp only for EMC Dept. Report

Approved & Authorized Signer :

Signature: David Jin 4.9

David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207	PASS
Radiated Emission	FCC Part 15: 15.209	PASS
Band Edge Compliance	FCC Part 15: 15.407	PASS
6dB&26Bandwidth Test	FCC Part 15: 15.407(a)	PASS
Output Power Test	FCC Part 15: 15.407(a)	PASS
Power Spectral Density Test	FCC Part 15: 15.407(a)	PASS
Frequency Stability	FCC Part 15: 15.407(g)	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name	: N600 Wireless Dual Band Gigabit Access Point
Model Number	: EAP220
FCC ID	: TE7EAP220
Radio	: IEEE802.11 a/b/g/n;
Operation Frequency	: IEEE 802.11a: 5180MHz—5240MHz;5745MHz—5825MHz IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE802.11nHT20: 2412MHz—2462MHz; 5180MHz—5240MHz,5745MHz—5825MHz IEEE802.11nHT40: 2422MHz—2452MHz; 5190MHz—5230MHz,5755MHz—5795MHz
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) : IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK) : IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,QPSK,BPSK)
Antenna Assembly Gain	: Antenna Type: Omni ; Gain: 4dBi
Applicant	: TP-LINK TECHNOLOGIES CO., LTD. Building 24(floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer	: TP-LINK TECHNOLOGIES CO., LTD. Building 24(floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Power Adapter	: Manufacture :TP-LINK;M/N: T120150-2B1 Data Cable:Unshielded,Undetachable,1.5m
Date of Test	: Mar.13 ~ 15, 2015
Date of Receipt	: Mar.10, 2015

2.2. Test Information

A special test software was used to control EUT work in Continuous TX mode nearly (nearly 100% duty cycle), and select test channel, wireless mode and data rate.

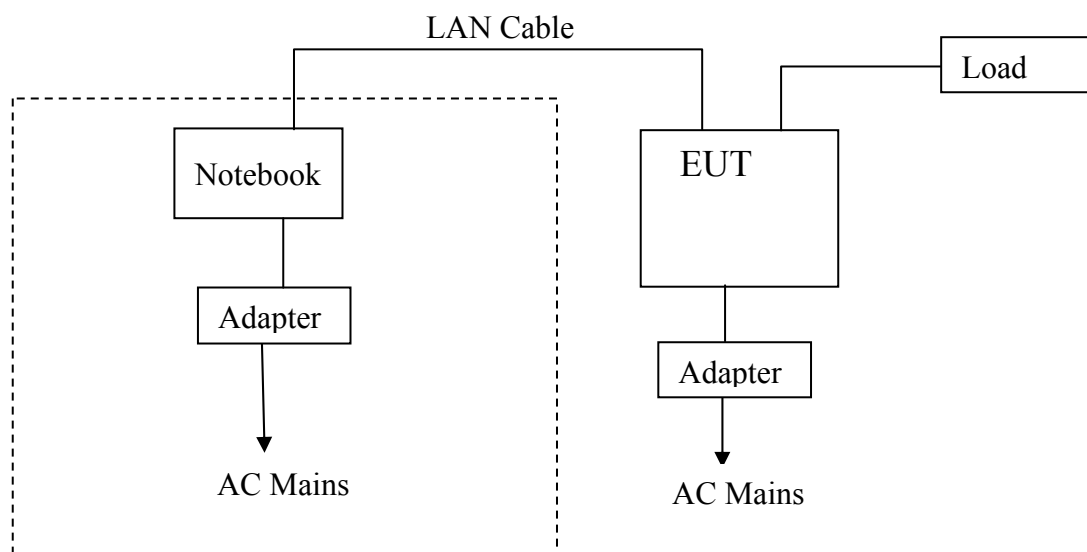
This device has two antennas, and those two antennas can transmit simultaneously in 11ac/n Mode.

Tested mode, channel, and data rate information :			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11a	6	Low :CH36	5180
	6	Middle: CH40	5200
	6	High: CH48	5240
	6	Low :CH149	5745
	6	Middle: CH157	5785
	6	High: CH165	5825
IEEE 802.11nHT20	MCS0	Low :CH36	5180
	MCS0	Middle: CH40	5200
	MCS0	High: CH48	5240
	MCS0	Low :CH149	5745
	MCS0	Middle: CH157	5785
	MCS0	High: CH165	5825
IEEE 802.11nHT40	MCS0	Low :CH38	5190
	MCS0	High: CH46	5230
	MCS0	Low :CH151	5755
	MCS0	High: CH159	5795
Note: 1. According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test. 2. This is 2T2R device, test comply with the Requirement of KDB662911. 3. IEEE802.11a use CDD and 11n use MIMO mode during the test.			

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Notebook	N/A	ACER	ZOW	N/A	☒ FCC DoC ☒ BSMI ID:R41108
		Power Cord: Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: Lite-On, M/N: PA-1900-32 Data Cable: Shielded, Undetectable, 4.0m(Bond one ferrite core)				
2.	LAN Cable	Shielded, Detachable, 2.0m				

2.4. Block Diagram of Test Setup



(EUT: N600 Wireless Dual Band Gigabit Access Point)

2.5. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Valid Date: Dec.20, 2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Oct.31, 2015
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.15, 2016
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2015

2.6. Measurement Uncertainty (95% confidence levels, k=2)

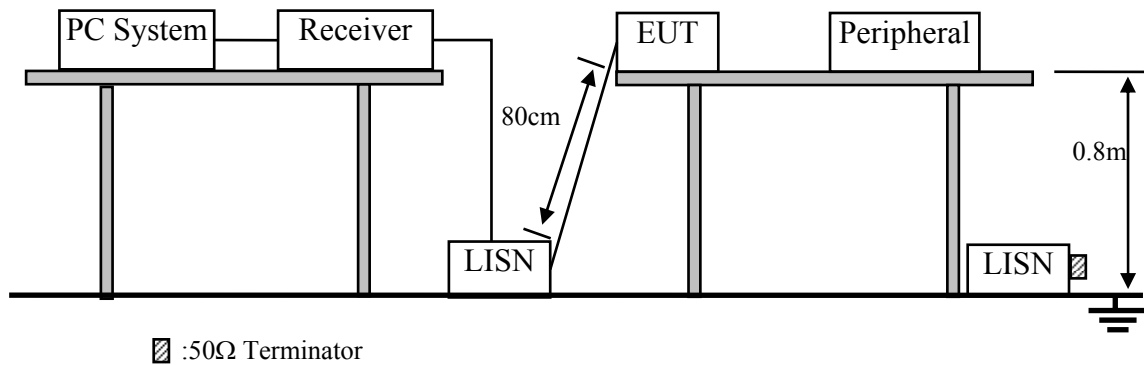
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.1 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.3 dB(30~200MHz, Polarize: H)
	3.3 dB(30~200MHz, Polarize: V)
	3.5 dB(200M~1GHz, Polarize: H)
	3.4 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	5.0 dB(1~6GHz, Distance: 3m)
	5.0 dB(6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test	3.6 dB
Uncertainty for Conduction Spurious emission test	2.0 dB
Uncertainty for Output power test	0.8 dB
Uncertainty for Power density test	2.0 dB
Uncertainty for Frequency range test	7×10^{-8}
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,14	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.29,14	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.29,14	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	Apr.28,14	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.28,14	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.28,14	1 Year
7.	RF Cable	Hubersuhner	RG58	0100.6954.20#	Oct.29,14	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200298346	Apr.28,14	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29,14	1 Year
10.	Test Software	AUDIX	E3	6.2009-6-3(n)	N/A	N/A

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. N600 Wireless Dual Band Gigabit Access Point (EUT)

Model Number : EAP220

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

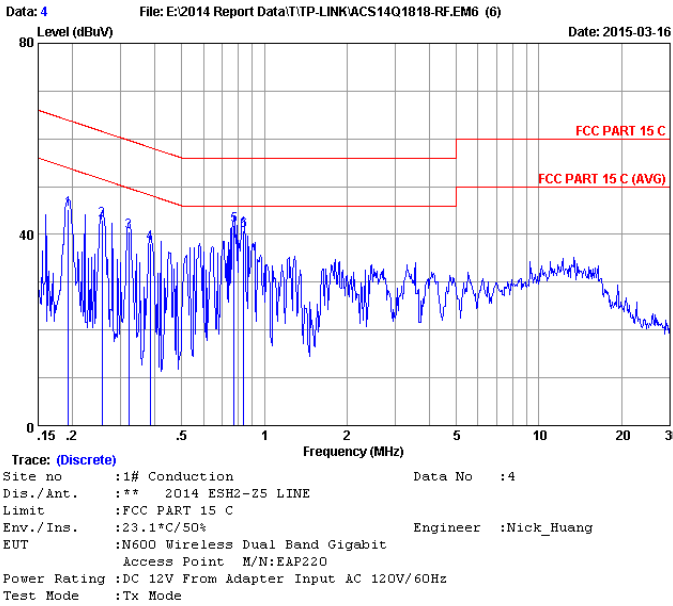
The bandwidth of test receiver (R & S ESHS10) is set at 9kHz. and the measure use QP Detector

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

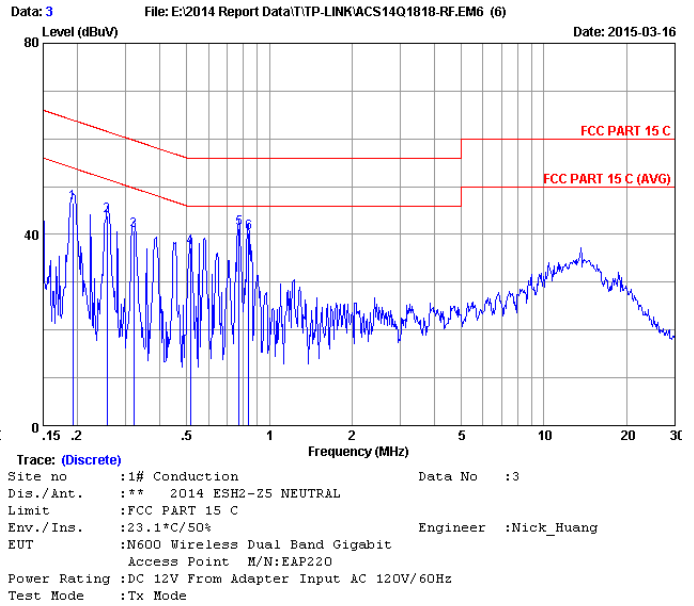
PASS. (All emissions not reported below are too low against the prescribed limits.)

U-NII 5180-5240MHz Band:



No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19344	0.13	9.90	35.24	45.27	63.89	18.62	QP
2	0.25615	0.13	9.90	32.89	42.92	61.56	18.64	QP
3	0.31999	0.13	9.90	30.44	40.47	59.71	19.24	QP
4	0.38315	0.63	9.90	27.52	38.05	58.21	20.16	QP
5	0.77519	0.15	9.91	31.74	41.80	56.00	14.20	QP
6	0.83932	0.15	9.91	30.65	40.71	56.00	15.29	QP

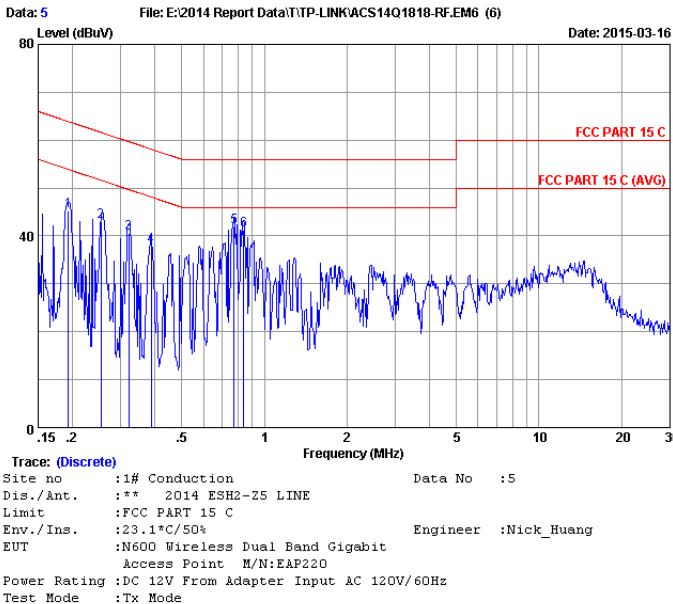
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19242	0.13	9.90	36.48	46.51	63.93	17.42	QP
2	0.25615	0.13	9.90	33.81	43.84	61.56	17.72	QP
3	0.31999	0.15	9.90	30.84	40.89	59.71	18.82	QP
4	0.51550	0.16	9.90	27.16	37.22	56.00	18.78	QP
5	0.77519	0.16	9.91	31.15	41.22	56.00	14.78	QP
6	0.83932	0.17	9.91	30.36	40.44	56.00	15.56	QP

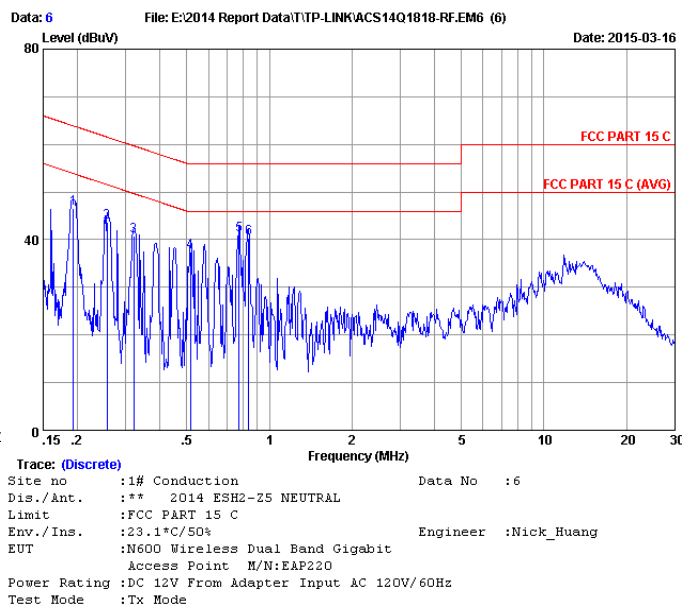
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

U-NII 5745-5825MHz Band:



No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19344	0.13	9.90	35.30	45.33	63.89	18.56	QP
2	0.25345	0.13	9.90	32.87	42.90	61.64	18.74	QP
3	0.31999	0.13	9.90	30.46	40.49	59.71	19.22	QP
4	0.38724	0.69	9.90	27.38	37.97	58.12	20.15	QP
5	0.77519	0.15	9.91	31.84	41.90	56.00	14.10	QP
6	0.83932	0.15	9.91	31.25	41.31	56.00	14.69	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19344	0.13	9.90	36.52	46.55	63.89	17.34	QP
2	0.25615	0.13	9.90	33.69	43.72	61.56	17.84	QP
3	0.31999	0.15	9.90	30.62	40.67	59.71	19.04	QP
4	0.51550	0.16	9.90	27.34	37.40	56.00	18.60	QP
5	0.77519	0.16	9.91	30.83	40.90	56.00	15.10	QP
6	0.83932	0.17	9.91	30.32	40.40	56.00	15.60	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

4.1.1. For frequency range 30 MHz ~1000MHz (At Anechoic Chamber)

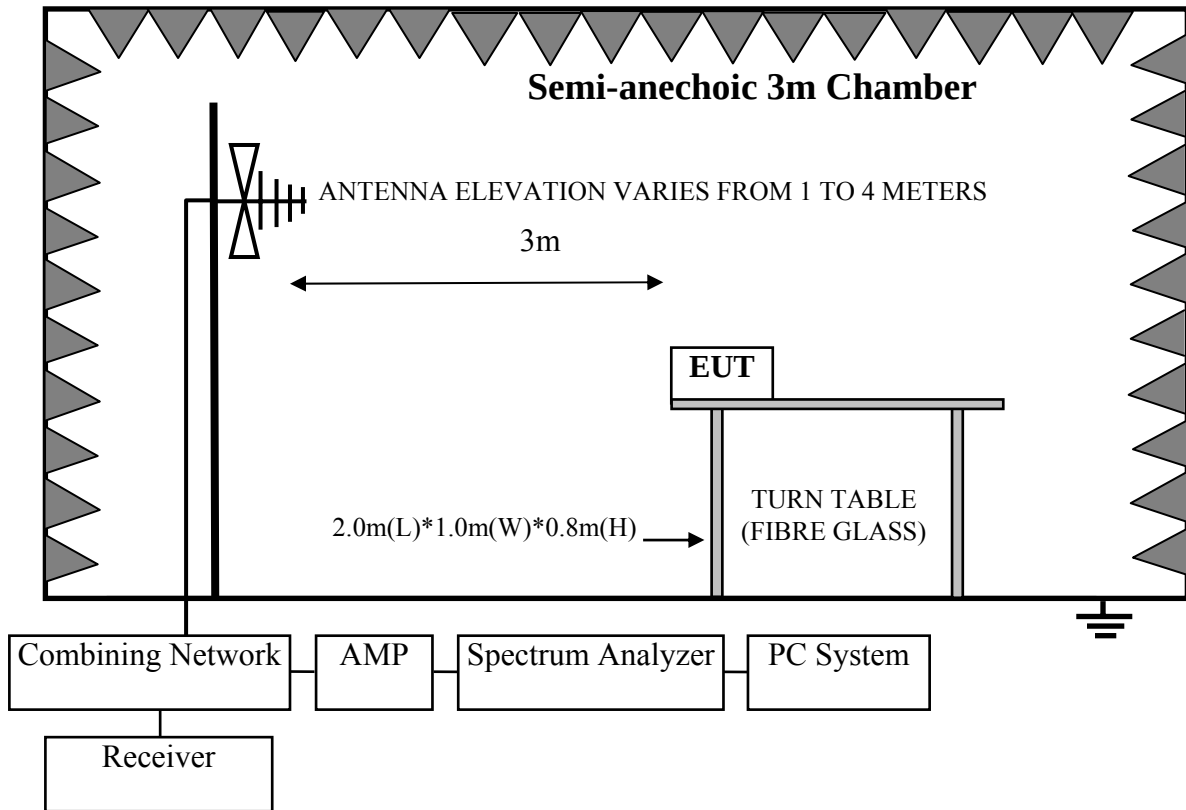
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov. 23,14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,14	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,14	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18,14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,14	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,14	1 Year

4.1.2. For frequency range 1GHz~40GHz (At Anechoic Chamber)

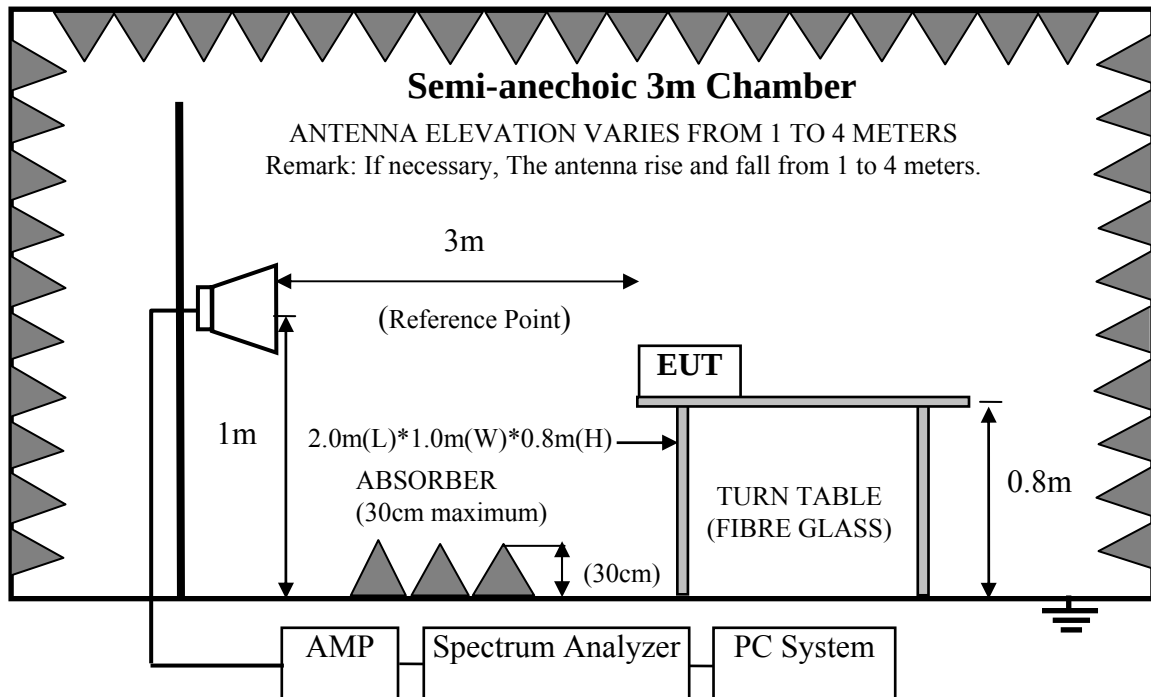
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
3	Amplifier	Agilent	8449B	3008A02495	Apr. 28,14	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,14	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,14	1 Year
6	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-40GHz



4.3.Radiated Emission Limit

For transmitters operating in the 5.15-5.25 GHz; 5.25-5.35GHz; 5.47-5.725GHz, 5.725-5.850GHz band: all emissions outside of those band shall not exceed an EIRP of -27 dBm/MHz. Unwanted emissions below 1 GHz and those emissions appearing within 15.205 restricted frequency bands must comply with the general field strength limits set forth in Section 15.209

4.3.1. 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark : (1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2. 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.4.

4.5.Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.5. except the test set up replaced by Section 4.2.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

For emissions below 1GHz and those emissions appearing within 15.205 restricted frequency bands use below procedure:

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

For the emissions above 1GHz and not appearing within 15.205 restricted frequency bands use below procedure:

- (1).The maximum emission at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.
- (2).The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.
- (3). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.
- (4).Repeated step 4 with both antenna polarizations
- (5).The spurious emissions is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna. or use procedure (6).
- (6). Per KDB789033 clause H 2)d).if the test distance is 3m,the $EIRP(dBm) = E(dB\mu V/m) - 95.2$
Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

We had checked frequency range that is 30MHz to 10th harmonic (40GHz) and no any emissions were found from 18GHz to 40GHz, so the radiated emission from 18GHz to 40GHz were not record.

4.7. Radiated Emission Test Results

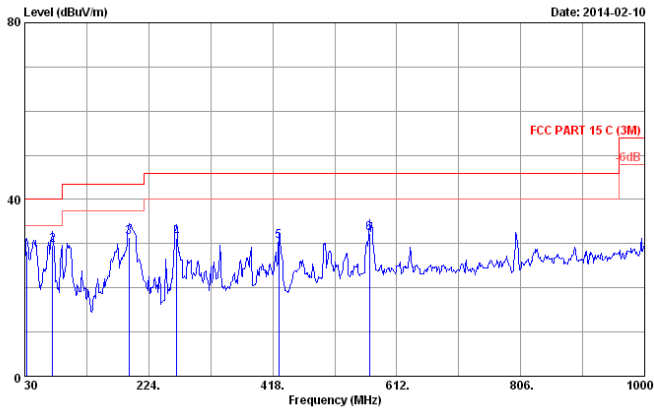
PASS.

All the emissions from 30MHz to 1 GHz were comply with 15.209 limits.

All other emission comply with 15.407 (b)(1) requirements.

U-NII 5180-5240MHz Band: Frequency: 30MHz~1GHz

Data: 3 File: E:\2014 Report Data\TTP-LINK\ACS14Q1818-RF.EM6 (6)



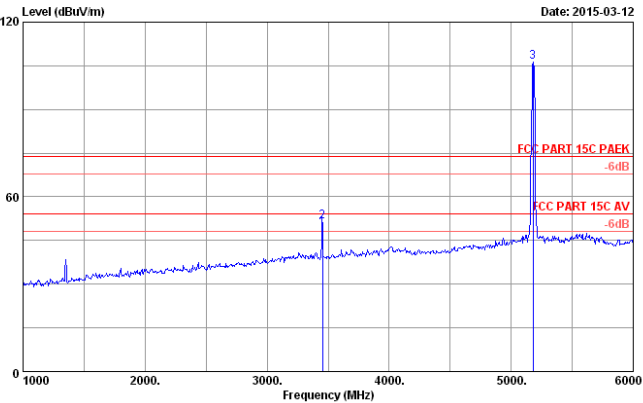
Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 26.7°C/49% Engineer : Even_Deng
EUT : N600 Wireless Dual Band Gigabit Access
Point M/N:EAP200
Power rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	32.91	18.16	0.63	9.47	28.26	40.00	11.74	QP
2	73.65	6.90	0.96	21.87	29.73	40.00	10.27	QP
3	192.96	9.85	1.80	19.87	31.52	43.50	11.98	QP
4	267.65	13.63	2.15	15.48	31.26	46.00	14.74	QP
5	427.70	17.19	2.93	10.50	30.62	46.00	15.38	QP
6	569.32	19.19	3.57	9.65	32.41	46.00	13.59	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz IEEE 802.11a

Data: 1 File: F:\2015 Report\TTP-LINK\ACS14Q1818 5G Band1-20150228.EM6 (72)

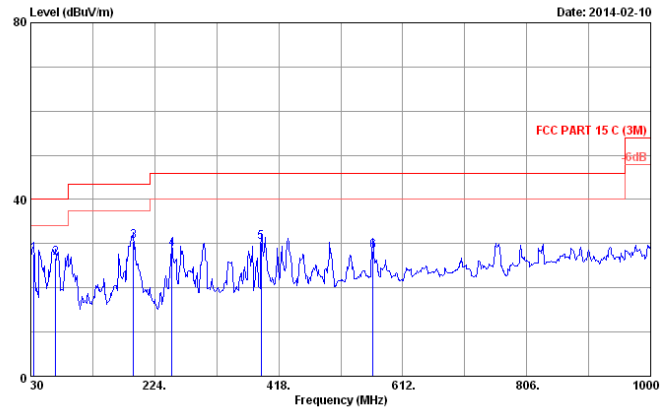


Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Black
EUT : N600 Wireless Dual Band Gigabit Access
Point M/N:EAP220
Power rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : 802.11a 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3453.370	31.19	7.14	34.89	45.80	49.24	54.00	4.76	Average
2	3453.370	31.19	7.14	34.89	47.87	51.31	74.00	22.69	Peak
3	5180.000	33.73	8.95	34.45	98.15	106.38	74.00	-32.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

Data: 4 File: E:\2014 Report Data\TTP-LINK\ACS14Q1818-RF.EM6 (6)

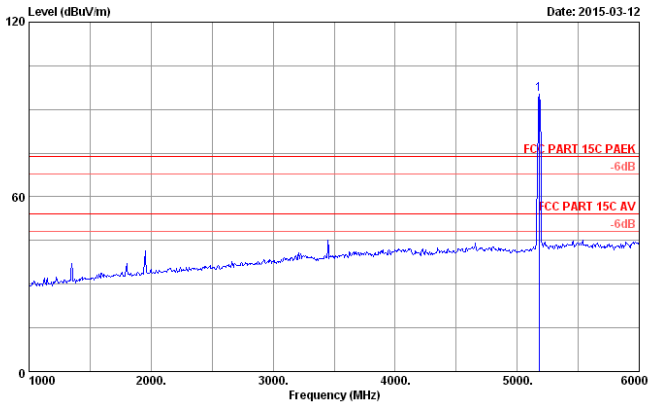


Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 26.7°C/49% Engineer : Even_Deng
EUT : N600 Wireless Dual Band Gigabit Access
Point M/N:EAP200
Power rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.85	16.93	0.65	10.13	27.71	40.00	12.29	QP
2	68.80	6.54	0.93	19.31	26.78	40.00	13.22	QP
3	191.02	9.75	1.79	18.92	30.46	43.50	13.04	QP
4	251.16	13.06	2.08	13.72	28.86	46.00	17.14	QP
5	390.84	16.23	2.76	11.40	30.39	46.00	15.61	QP
6	565.44	19.11	3.55	5.62	28.28	46.00	17.72	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

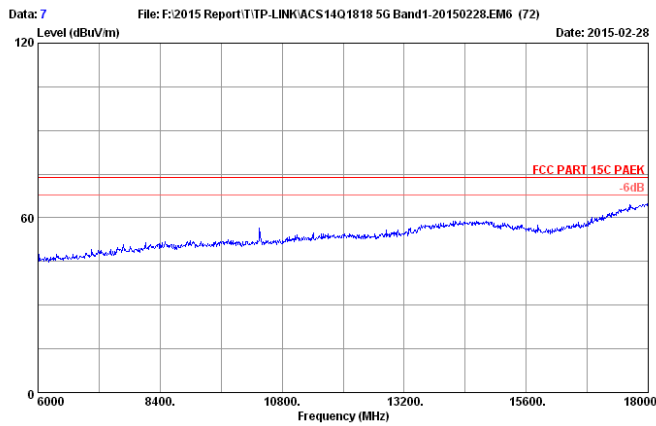
Data: 2 File: F:\2015 Report\TTP-LINK\ACS14Q1818 5G Band1-20150228.EM6 (72)



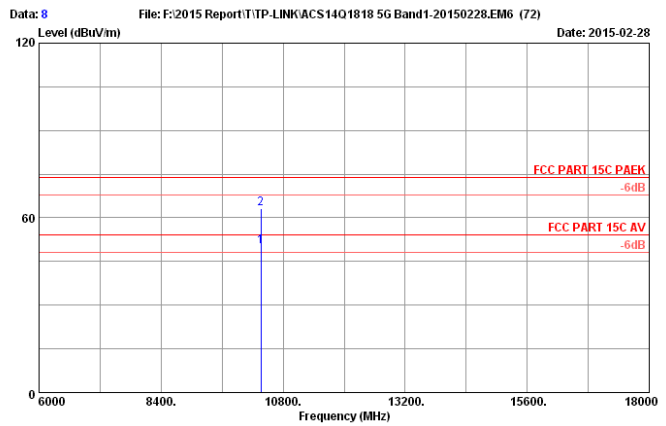
Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Black
EUT : N600 Wireless Dual Band Gigabit Access
Point M/N:EAP220
Power rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : 802.11a 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.000	33.73	8.95	34.45	87.00	95.23	74.00	-21.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



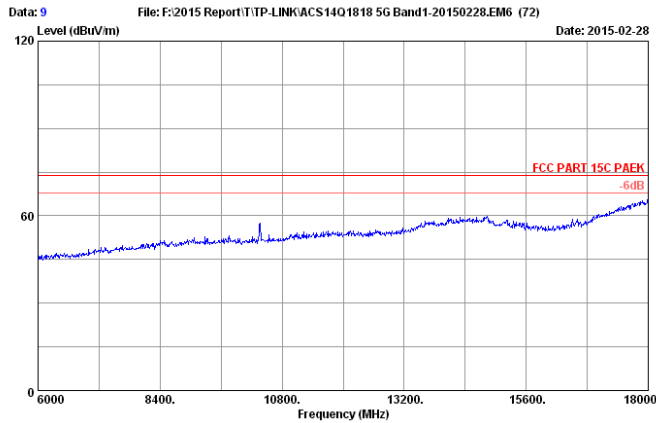
Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5180MHz



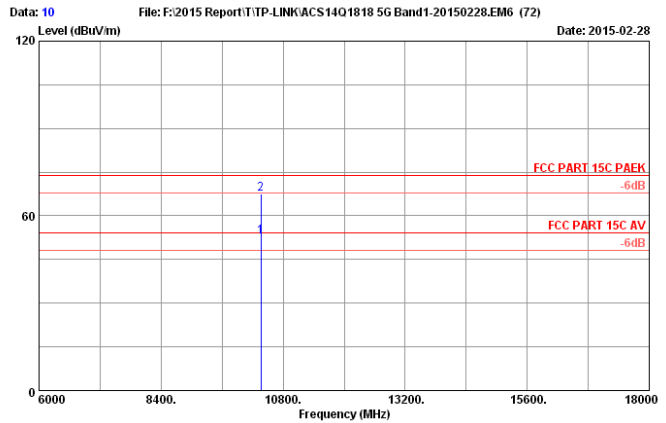
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10360.000	38.24	12.64	35.18	34.47	50.17	54.00	3.83	Average
2	10360.000	38.24	12.64	35.18	47.51	63.21	74.00	10.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



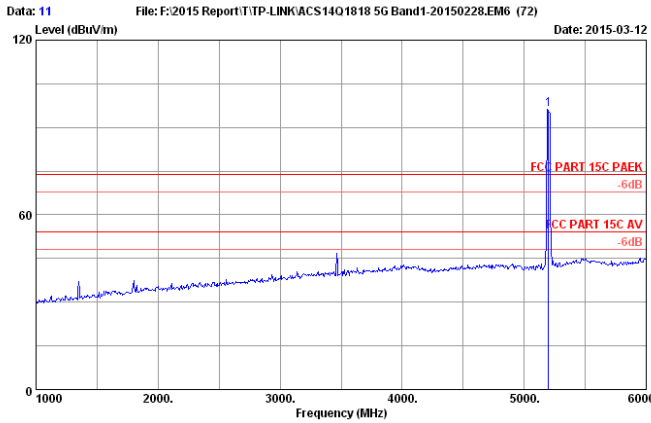
Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5180MHz



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10360.000	38.24	12.64	35.18	37.06	52.76	54.00	1.24	Average
2	10360.000	38.24	12.64	35.18	51.82	67.52	74.00	6.48	Peak

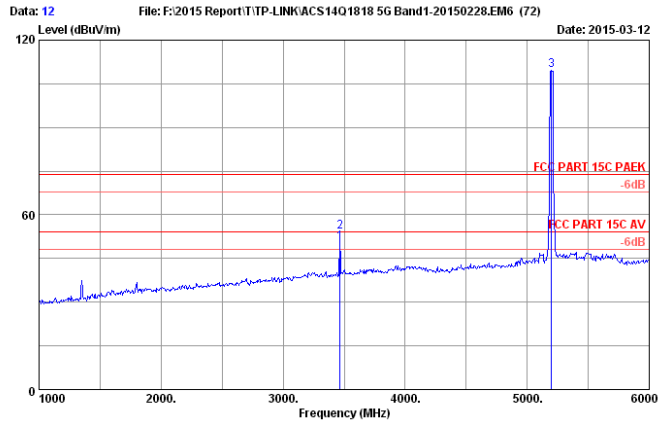
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5200MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.000	33.77	8.97	34.45	87.85	96.14	74.00	-22.14	Peak

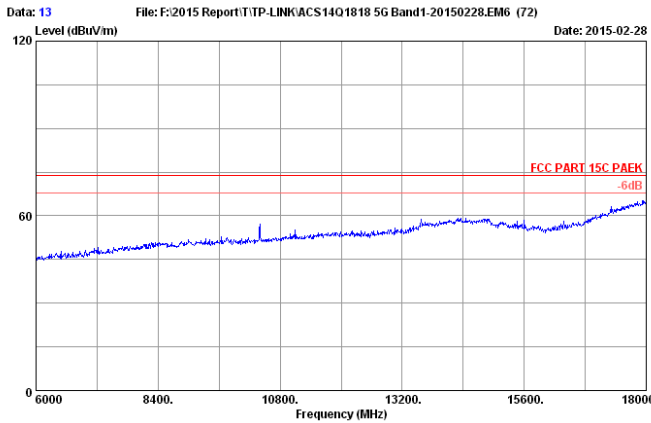
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



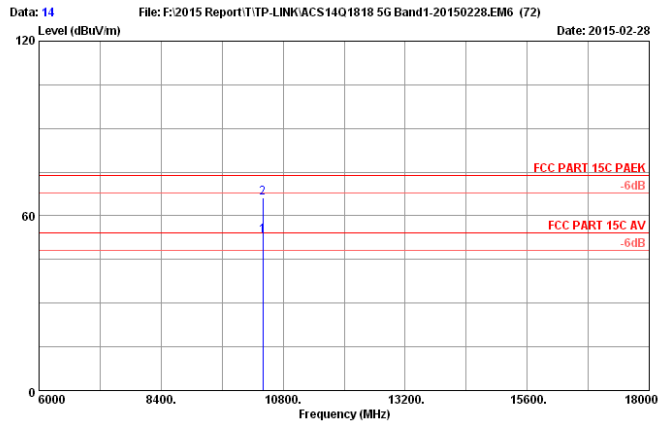
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5200MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3466.700	31.22	7.16	34.89	47.08	50.57	54.00	3.43	Average
2	3466.700	31.22	7.16	34.89	50.74	54.23	74.00	19.77	Peak
3	5200.000	33.77	8.97	34.45	101.18	109.47	74.00	-35.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



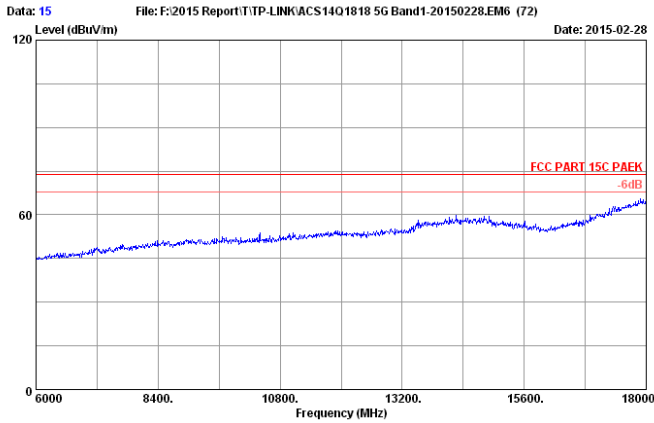
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5200MHz



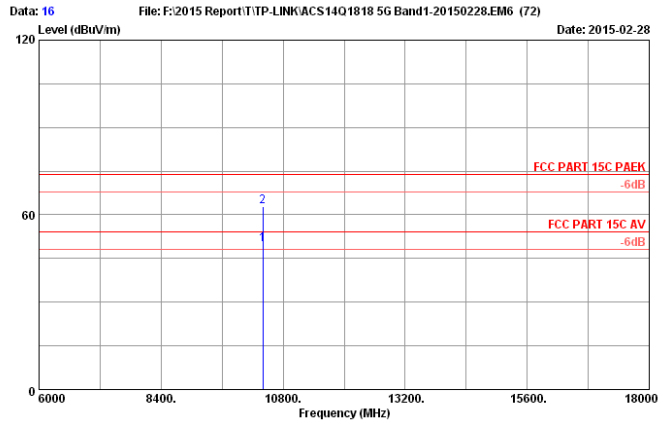
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5200MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.000	38.26	12.66	35.16	37.24	53.00	54.00	1.00	Average
2	10400.000	38.26	12.66	35.16	50.42	66.18	74.00	7.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



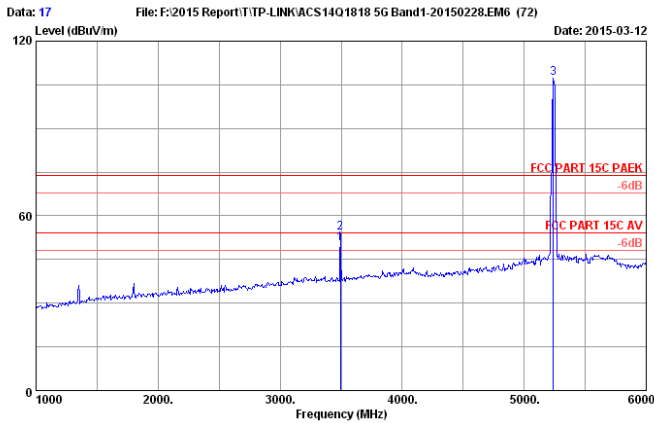
Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5200MHz



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5200MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.000	38.26	12.66	35.16	34.06	49.82	54.00	4.18	Average
2	10400.000	38.26	12.66	35.16	47.07	62.83	74.00	11.17	Peak

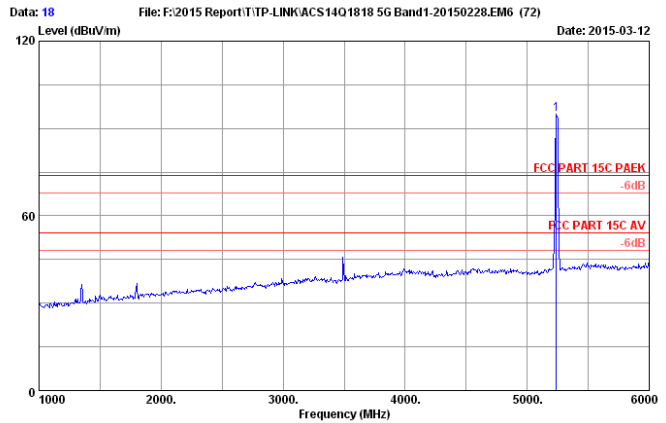
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3493.533	31.28	7.19	34.89	46.83	50.41	54.00	3.59	Average
2	3493.533	31.28	7.19	34.89	50.49	54.07	74.00	19.93	Peak
3	5240.000	33.84	9.02	34.45	98.74	107.15	74.00	-33.15	Peak

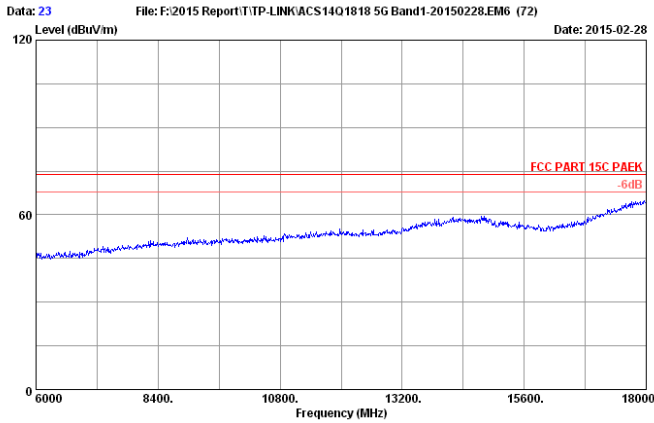
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



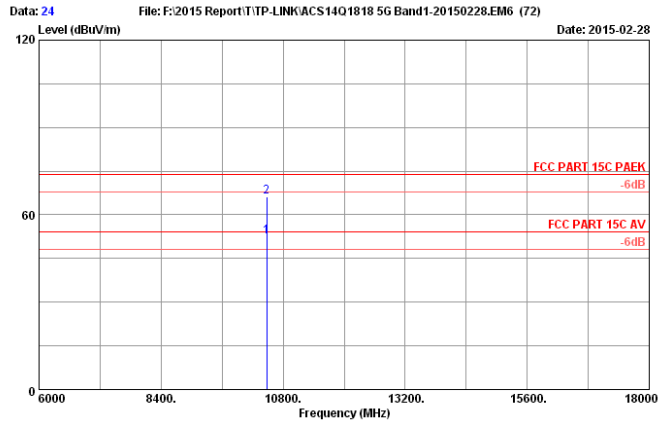
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.000	33.84	9.02	34.45	86.64	95.05	74.00	-21.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



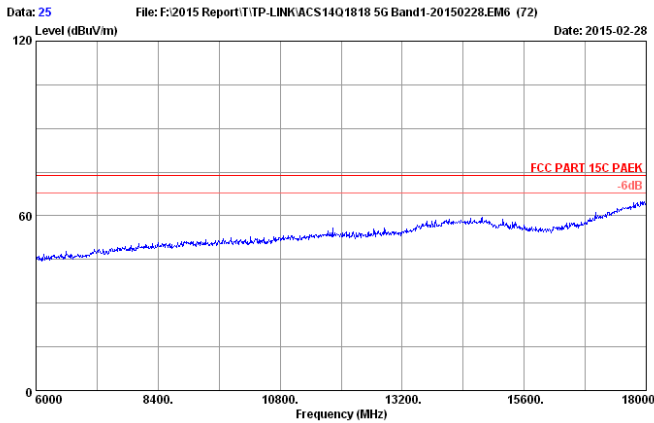
Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz



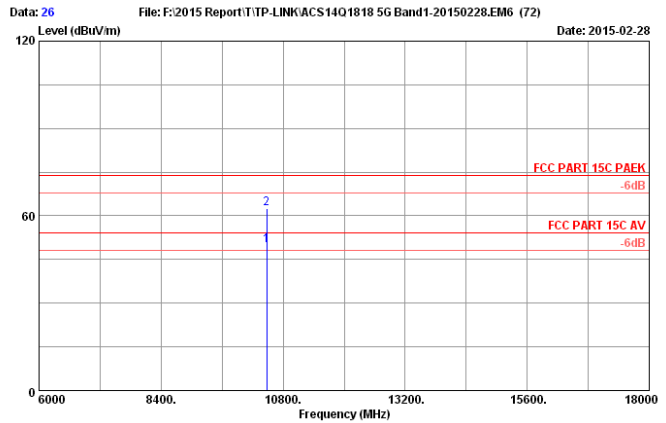
Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.000	38.29	12.70	35.13	36.65	52.51	54.00	1.49	Average
2	10480.000	38.29	12.70	35.13	50.20	66.06	74.00	7.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

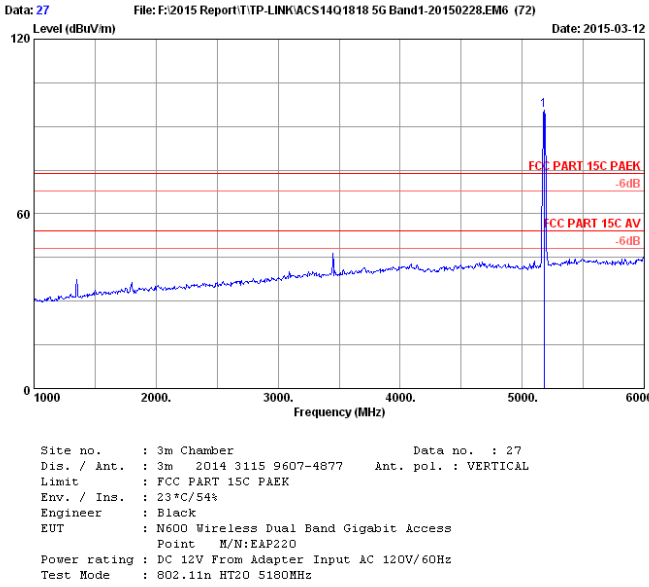


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.000	38.29	12.70	35.13	34.05	49.91	54.00	4.09	Average
2	10480.000	38.29	12.70	35.13	46.48	62.34	74.00	11.66	Peak

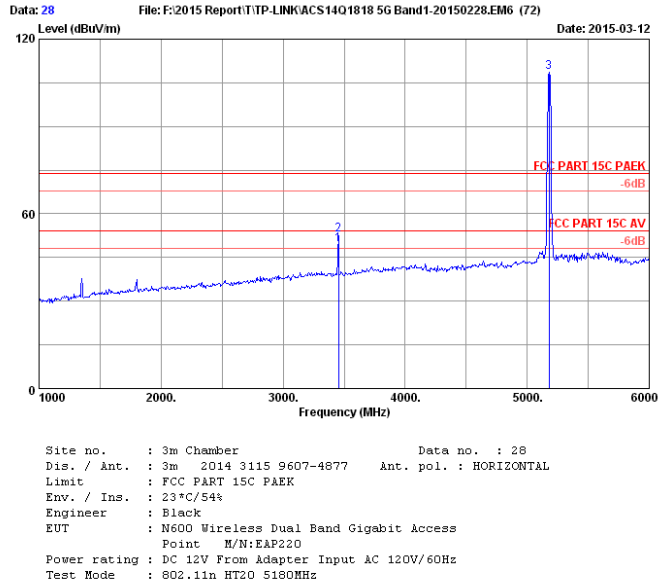
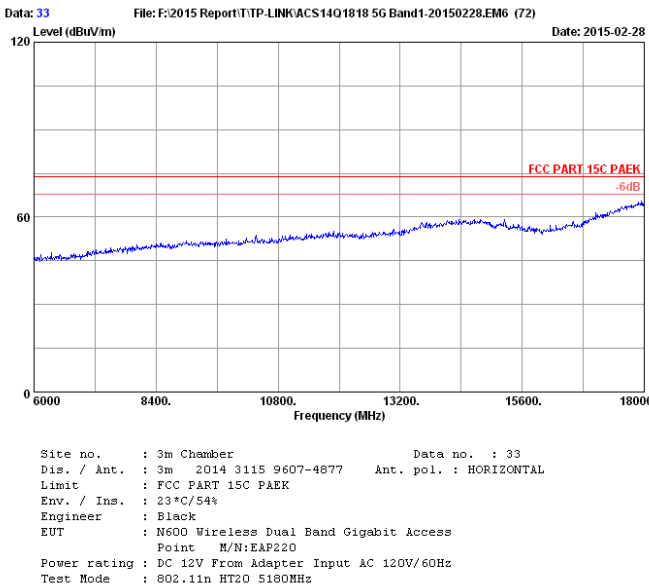
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official limit are not reported.

IEEE 802.11nHT20



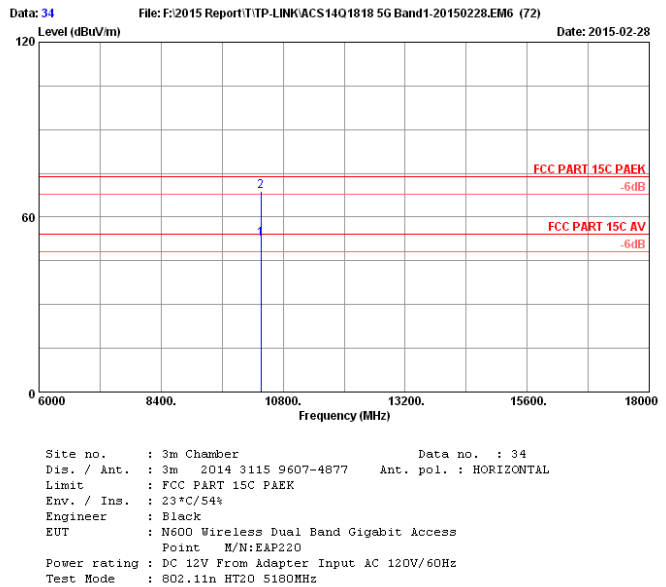
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.000	33.73	8.95	34.45	87.27	95.50	74.00	-21.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



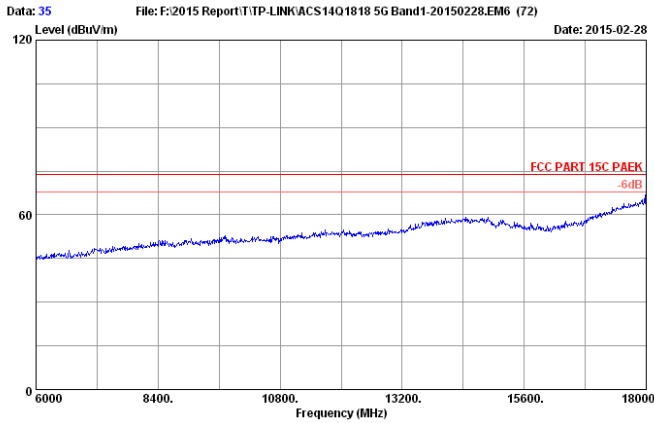
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3453.370	31.19	7.14	34.89	46.04	49.48	54.00	4.52	Average
2	3453.370	31.19	7.14	34.89	49.38	52.82	74.00	21.18	Peak
3	5180.000	33.73	8.95	34.45	100.33	108.56	74.00	-34.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

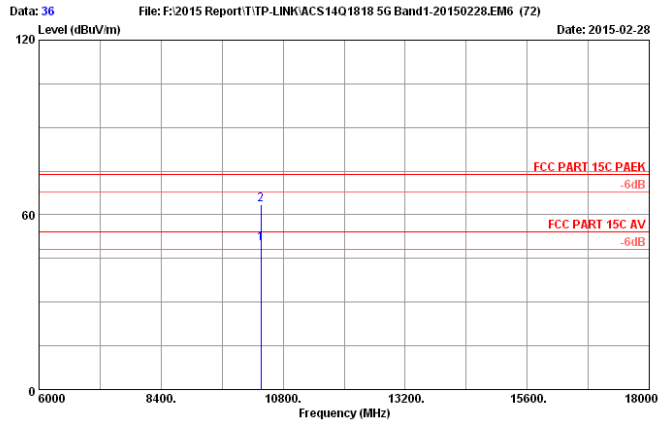


No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10360.000	38.24	12.64	35.18	36.88	52.58	54.00	1.42	Average
2	10360.000	38.24	12.64	35.18	53.16	68.86	74.00	5.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



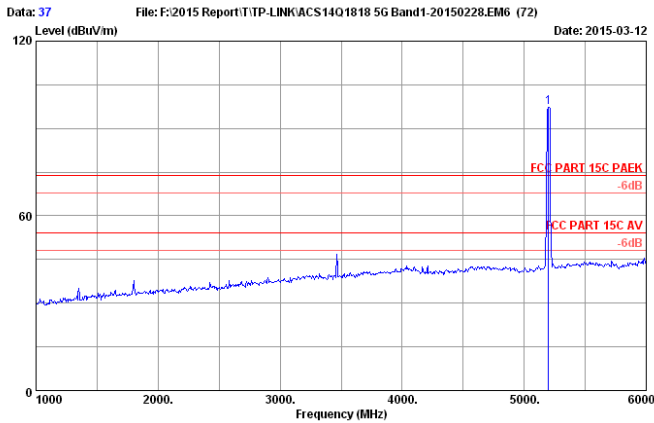
Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5180MHz



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10360.000	38.24	12.64	35.18	34.58	50.28	54.00	3.72	Average
2	10360.000	38.24	12.64	35.18	47.96	63.66	74.00	10.34	Peak

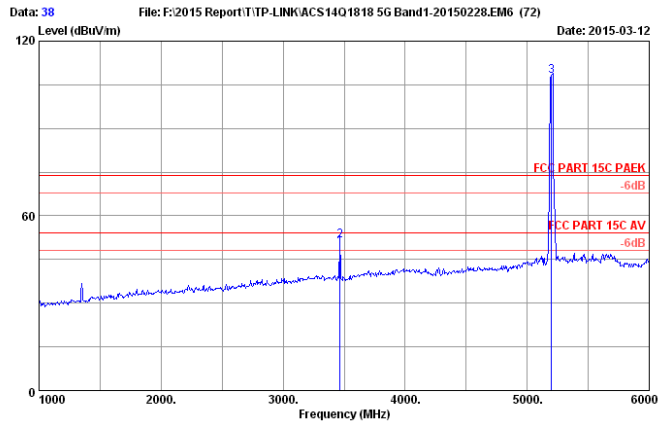
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5200MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.000	33.77	8.97	34.45	88.88	97.17	74.00	-23.17	Peak

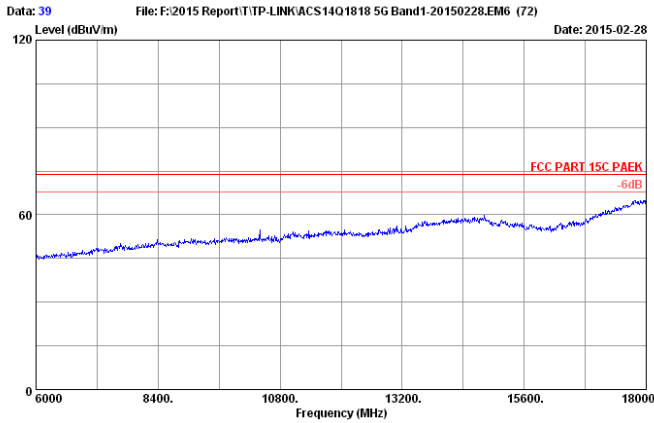
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



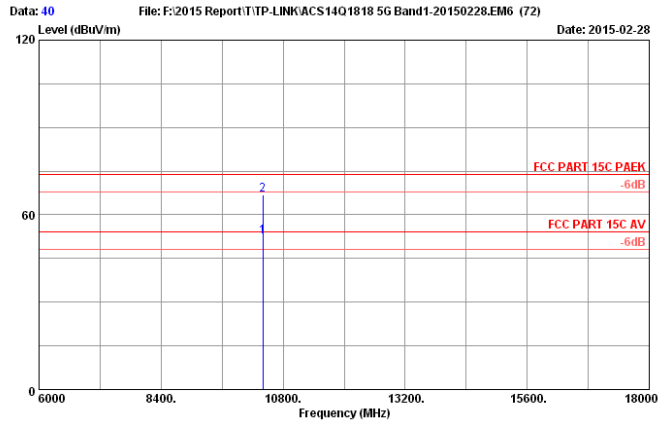
Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5200MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3466.450	31.22	7.16	34.89	45.71	49.20	54.00	4.80	Average
2	3466.450	31.22	7.16	34.89	48.13	51.62	74.00	22.38	Peak
3	5200.000	33.77	8.97	34.45	99.81	108.10	74.00	-34.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



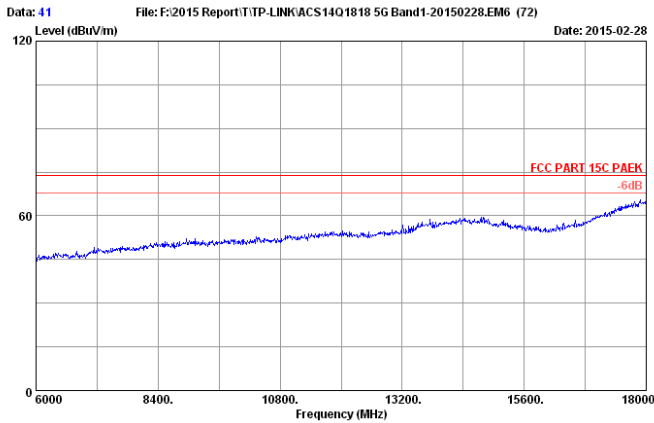
Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5200MHz



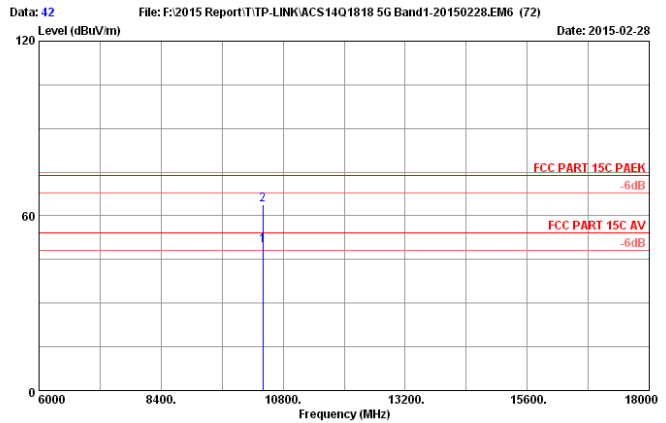
Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5200MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.000	38.26	12.66	35.16	36.62	52.38	54.00	1.62	Average
2	10400.000	38.26	12.66	35.16	50.98	66.74	74.00	7.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



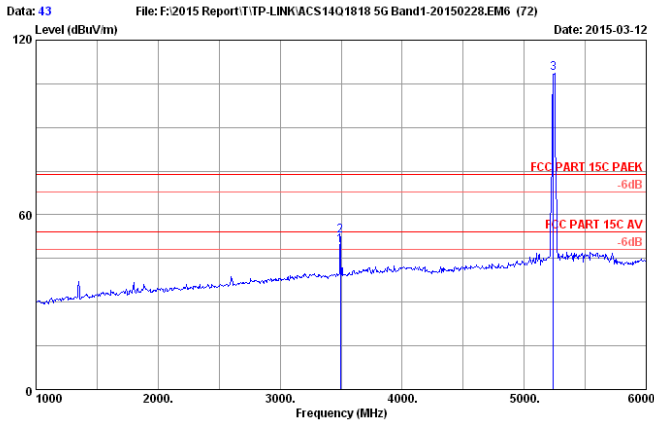
Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5200MHz



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5200MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.000	38.26	12.66	35.16	34.01	49.77	54.00	4.23	Average
2	10400.000	38.26	12.66	35.16	48.06	63.82	74.00	10.18	Peak

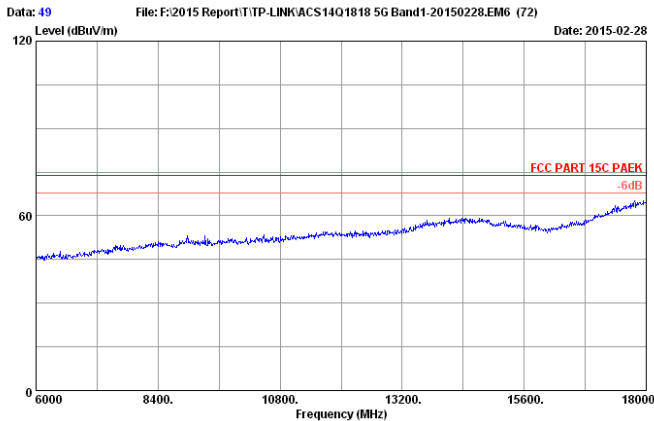
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



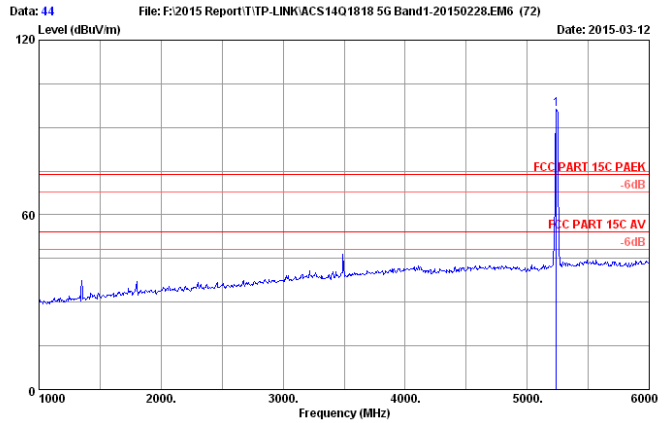
Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3493.458	31.28	7.19	34.89	46.03	49.61	54.00	4.39	Average
2	3493.458	31.28	7.19	34.89	49.07	52.65	74.00	21.35	Peak
3	5240.000	33.84	9.02	34.45	100.14	108.55	74.00	-34.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



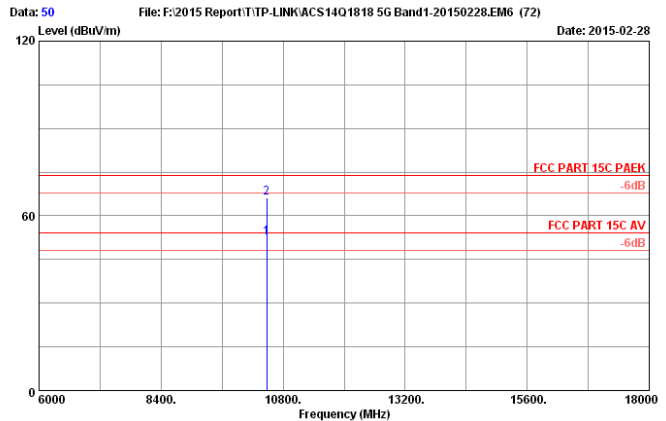
Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz



Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.000	33.84	9.02	34.45	87.96	96.37	74.00	-22.37	Peak

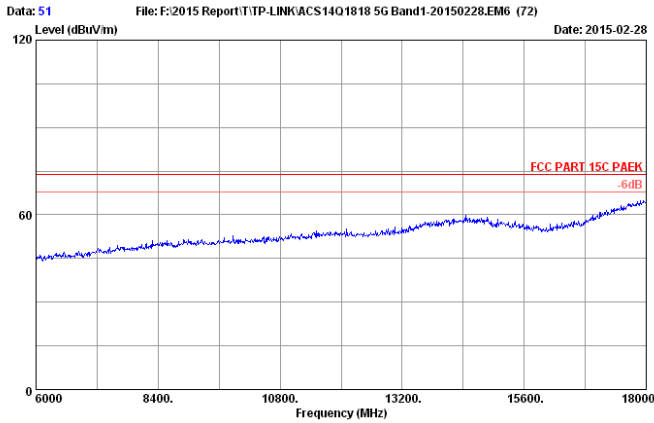
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



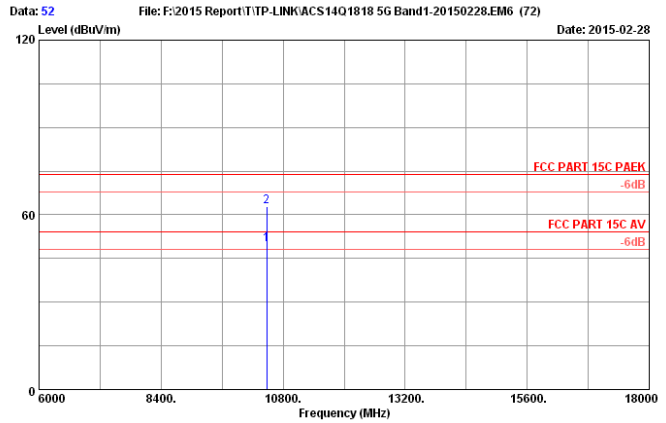
Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.000	38.29	12.70	35.13	36.60	52.46	54.00	1.54	Average
2	10480.000	38.29	12.70	35.13	50.31	66.17	74.00	7.83	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

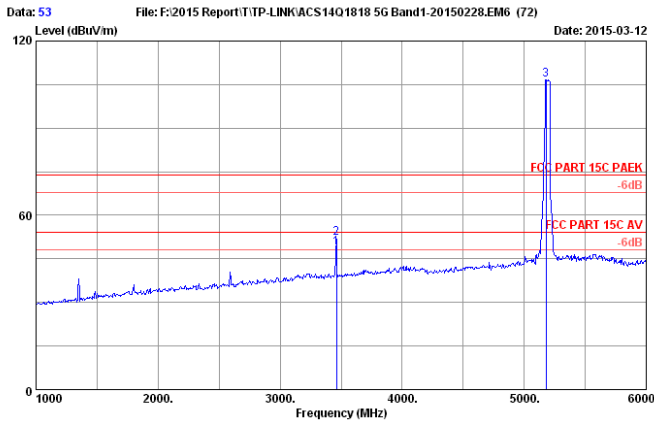


Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.000	38.29	12.70	35.13	34.00	49.86	54.00	4.14	Average
2	10480.000	38.29	12.70	35.13	46.94	62.80	74.00	11.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

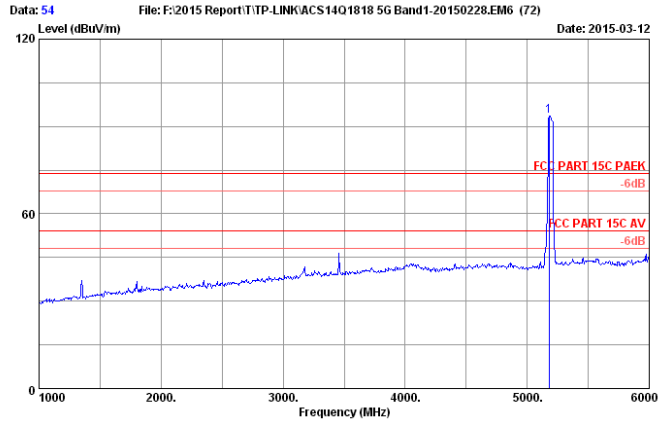
IEEE 802.11nHT40



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3463.410	31.21	7.16	34.89	45.16	48.64	54.00	5.36	Average
2	3463.410	31.21	7.16	34.89	48.51	51.99	74.00	22.01	Peak
3	5180.000	33.73	8.95	34.45	98.53	106.76	74.00	-32.76	Peak

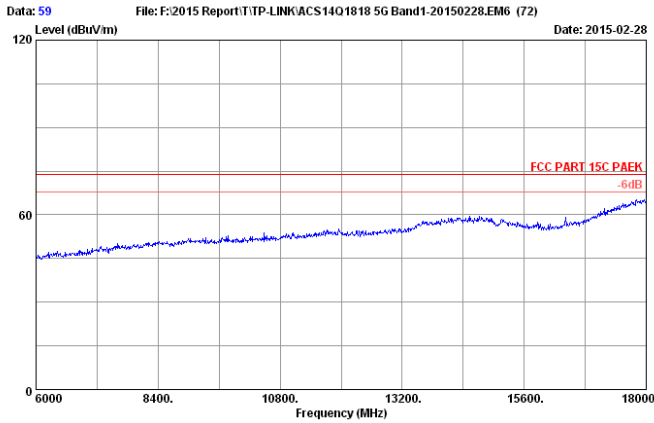
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



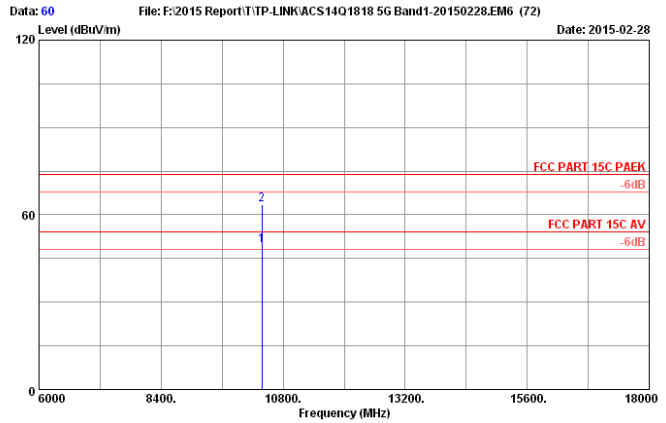
Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.000	33.73	8.95	34.45	85.47	93.70	74.00	-19.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



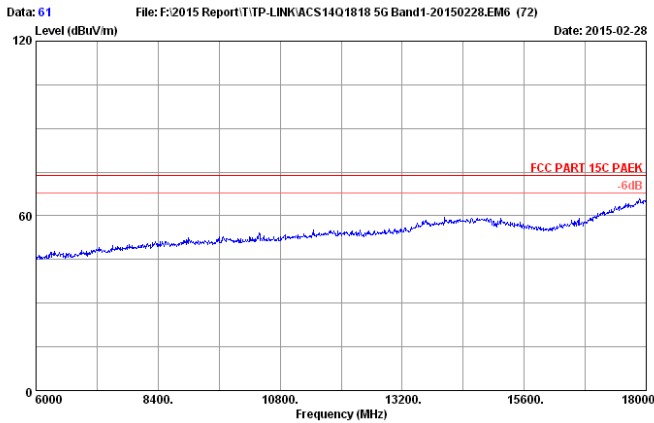
Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz



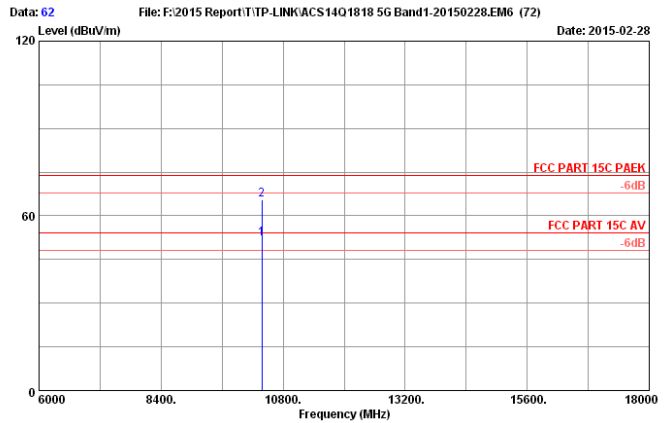
Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10380.000	38.25	12.65	35.17	33.81	49.54	54.00	4.46	Average
2	10380.000	38.25	12.65	35.17	47.64	63.37	74.00	10.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



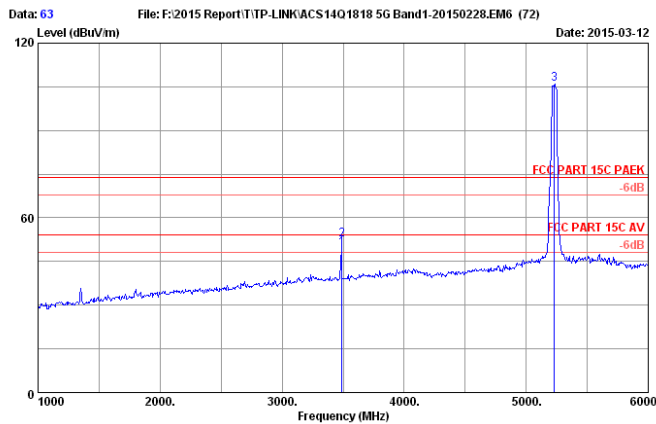
Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz



Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10380.000	38.25	12.65	35.17	36.50	52.23	54.00	1.77	Average
2	10380.000	38.25	12.65	35.17	49.70	65.43	74.00	8.57	Peak

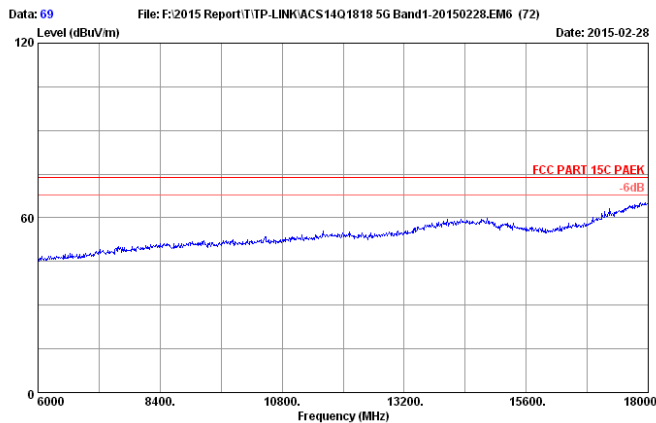
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



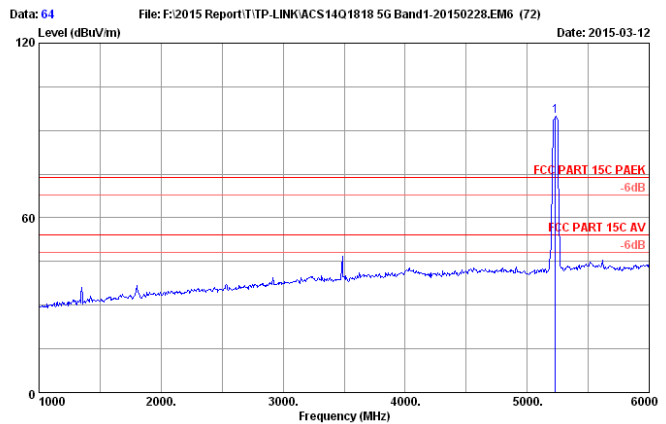
Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5230MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3488.560	31.27	7.18	34.89	45.93	49.49	54.00	4.51	Average
2	3488.560	31.27	7.18	34.89	48.95	52.51	74.00	21.49	Peak
3	5230.000	33.82	9.01	34.45	97.43	105.81	74.00	-31.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



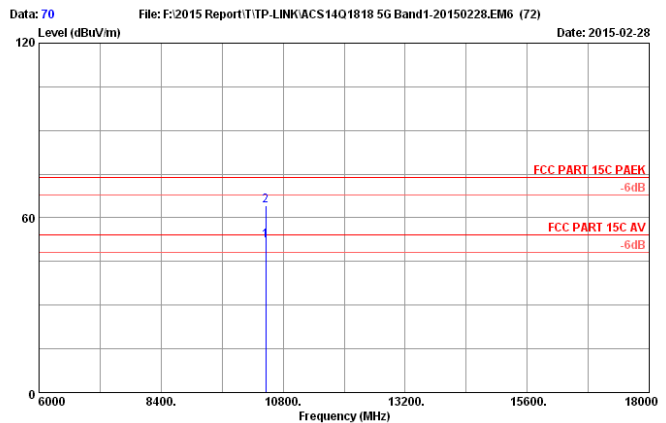
Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5230MHz



Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5230MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.000	33.82	9.01	34.45	86.39	94.77	74.00	-20.77	Peak

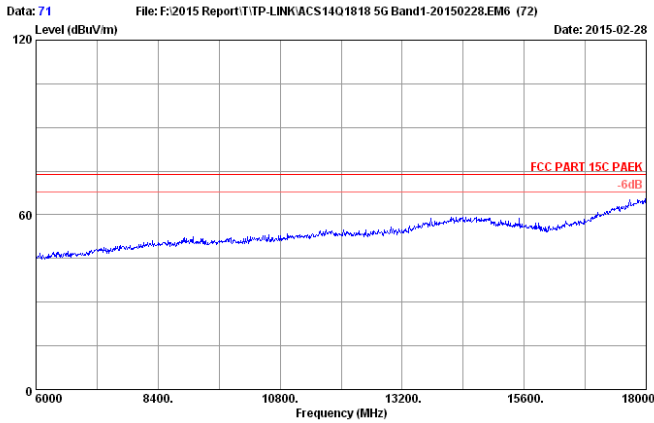
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



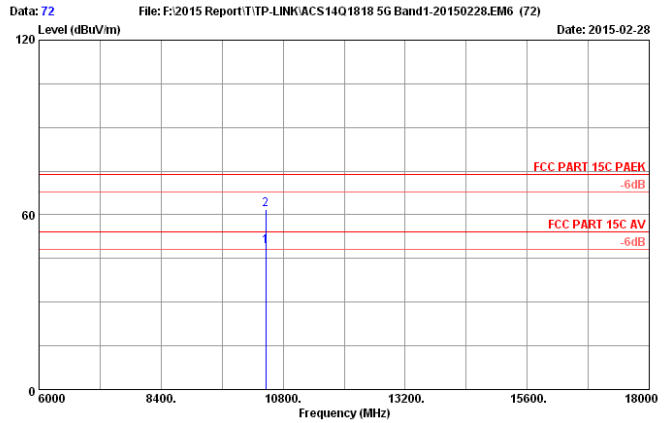
Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5230MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10460.000	38.28	12.69	35.14	36.48	52.31	54.00	1.69	Average
2	10460.000	38.28	12.69	35.14	48.51	64.34	74.00	9.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 S230MHz

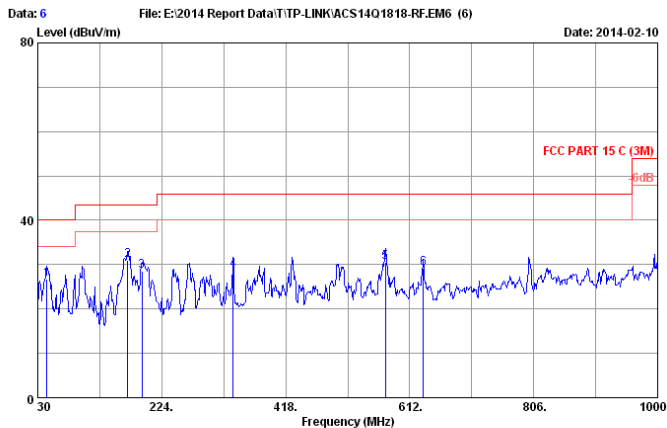


Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 S230MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10460.000	38.28	12.69	35.14	33.44	49.27	54.00	4.73	Average
2	10460.000	38.28	12.69	35.14	46.07	61.90	74.00	12.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official limit are not reported.

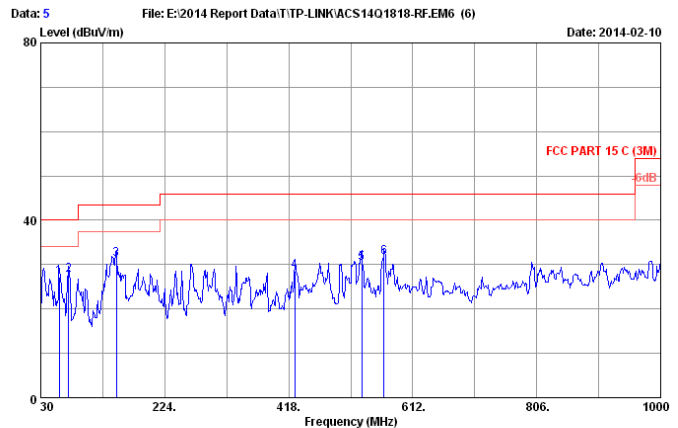
U-NII 5745-5825MHz Band: Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 26.7°C/49% Engineer : Even_Deng
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP200
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	44.55	10.85	0.73	15.08	26.66	40.00	13.34	QP
2	170.65	10.07	1.67	19.31	31.05	43.50	12.45	QP
3	192.96	9.85	1.80	16.87	28.52	43.50	14.98	QP
4	335.55	14.81	2.48	11.44	28.73	46.00	17.27	QP
5	574.17	19.28	3.59	7.68	30.55	46.00	15.45	QP
6	633.34	19.87	3.85	5.40	29.12	46.00	16.88	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

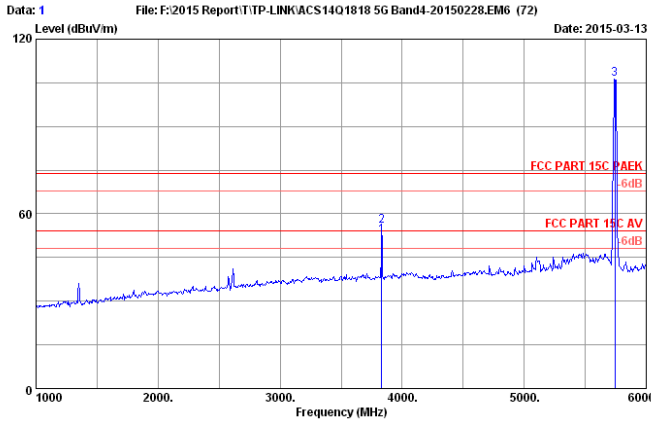


Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 26.7°C/49% Engineer : Even_Deng
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP200
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	59.10	6.64	0.85	19.69	27.18	40.00	12.82	QP
2	73.65	6.90	0.96	19.87	27.73	40.00	12.27	QP
3	148.34	11.38	1.53	18.21	31.12	43.50	12.38	QP
4	427.70	17.19	2.93	8.50	28.62	46.00	17.38	QP
5	532.46	18.45	3.39	8.40	30.24	46.00	15.76	QP
6	567.38	19.15	3.56	8.90	31.61	46.00	14.39	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

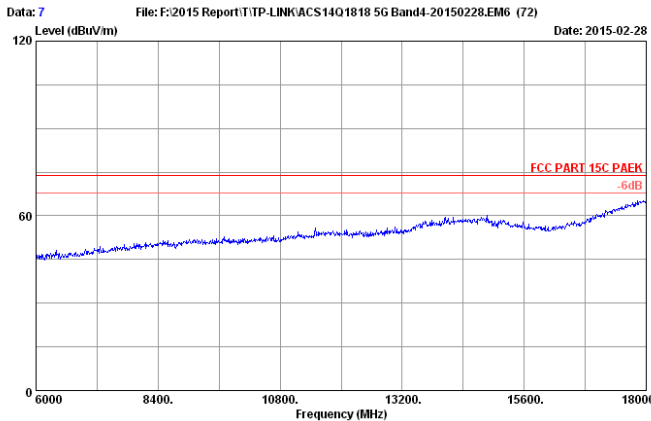
Frequency: 1GHz~18GHz IEEE 802.11a



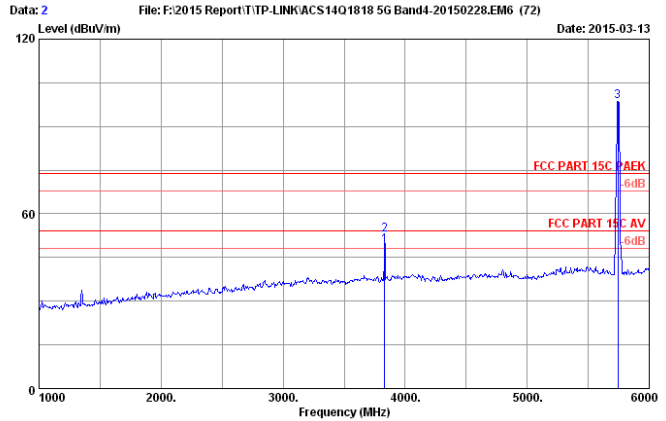
Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3829.930	32.19	7.54	35.70	48.30	52.33	54.00	1.67	Average
2	3829.930	32.19	7.54	35.70	51.72	55.75	74.00	18.25	Peak
3	5745.000	34.10	9.55	35.70	98.30	106.25	74.00	-32.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported



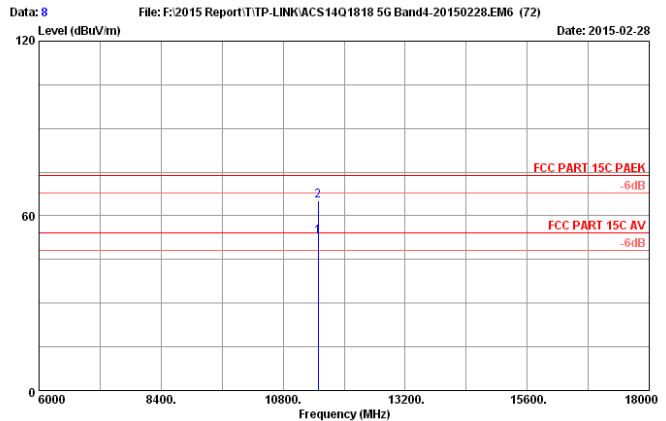
Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5745MHz



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3830.080	32.19	7.54	35.70	45.05	49.08	54.00	4.92	Average
2	3830.080	32.19	7.54	35.70	48.94	52.97	74.00	21.03	Peak
3	5745.000	34.10	9.55	35.70	90.66	98.61	74.00	-24.61	Peak

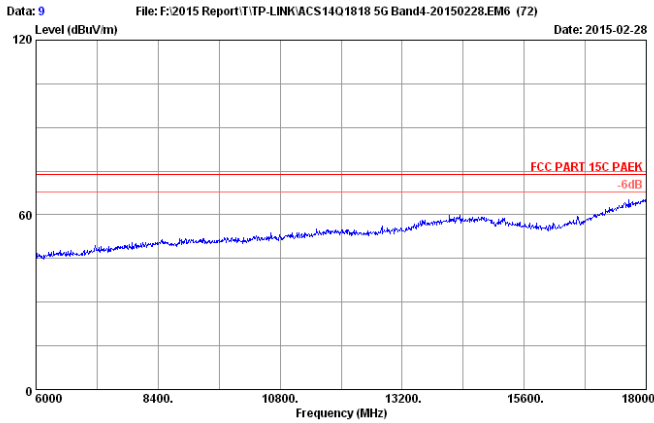
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported



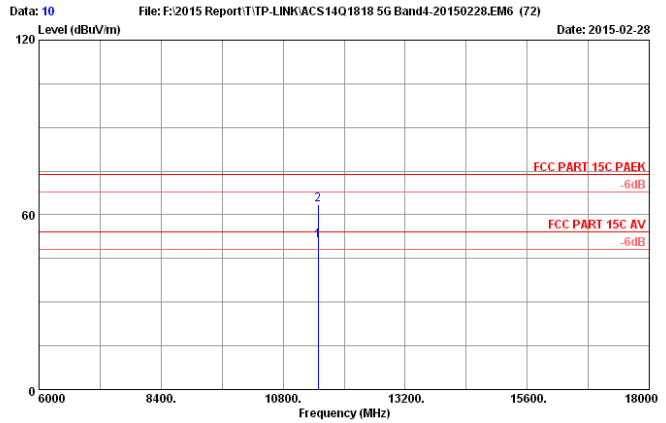
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.99	13.28	34.75	35.15	52.67	54.00	1.33	Average
2	11490.000	38.99	13.28	34.75	47.76	65.28	74.00	8.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



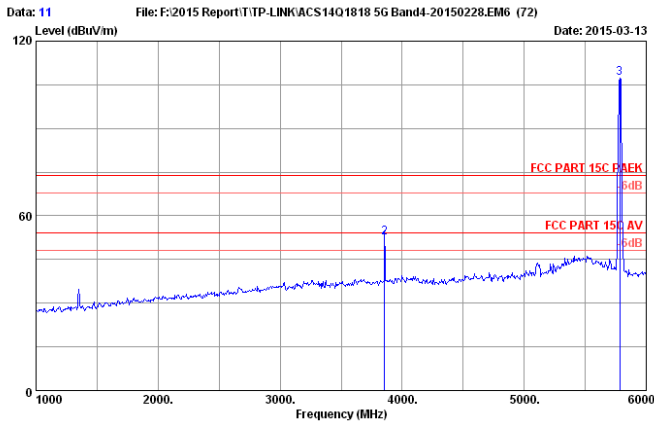
Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5745MHz



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.99	13.28	34.75	33.51	51.03	54.00	2.97	Average
2	11490.000	38.99	13.28	34.75	46.07	63.59	74.00	10.41	Peak

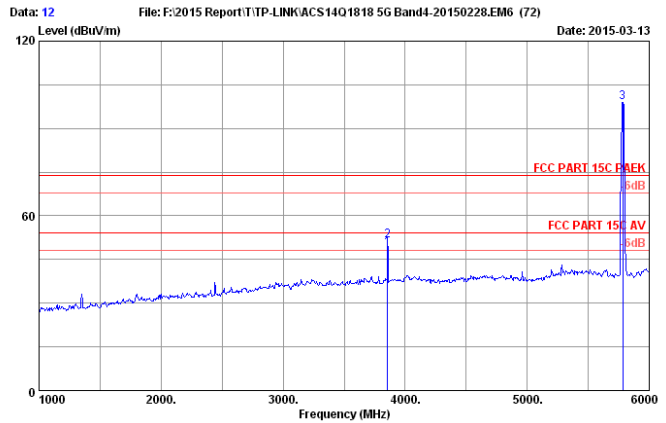
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5785MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3855.896	32.25	7.57	35.70	46.61	50.73	54.00	3.27	Average
2	3855.896	32.25	7.57	35.70	48.45	52.57	74.00	21.43	Peak
3	5785.000	34.11	9.59	35.70	99.16	107.16	74.00	-33.16	Peak

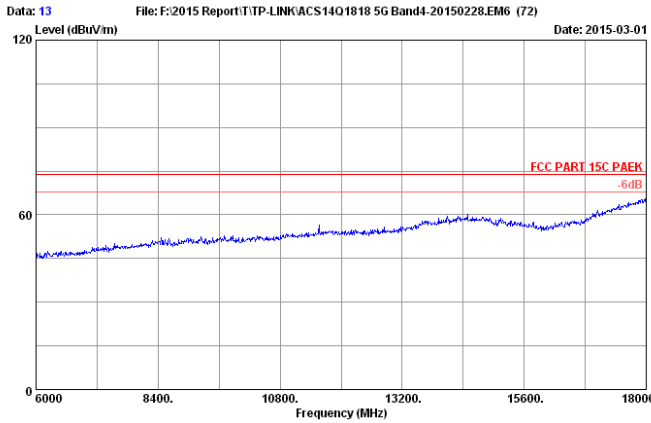
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



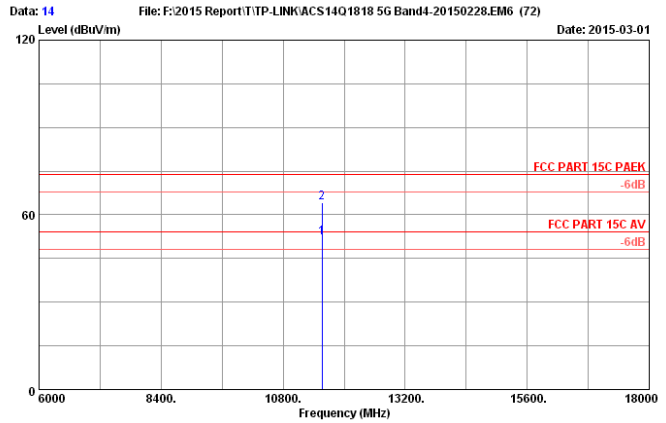
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5785MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3855.920	32.25	7.57	35.70	44.62	48.74	54.00	5.26	Average
2	3855.920	32.25	7.57	35.70	47.49	51.61	74.00	22.39	Peak
3	5785.000	34.11	9.59	35.70	91.06	99.06	74.00	-25.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



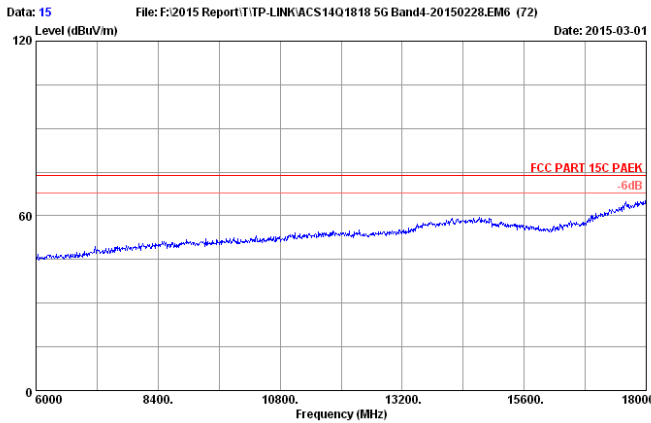
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5785MHz



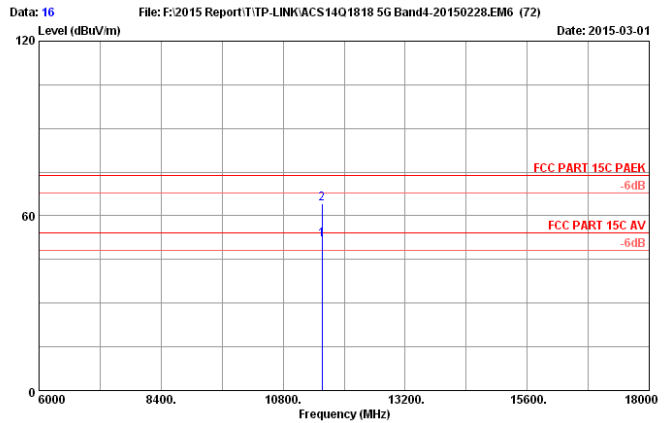
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5785MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.03	13.32	34.76	34.66	52.25	54.00	1.75	Average
2	11570.000	39.03	13.32	34.76	46.73	64.32	74.00	9.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



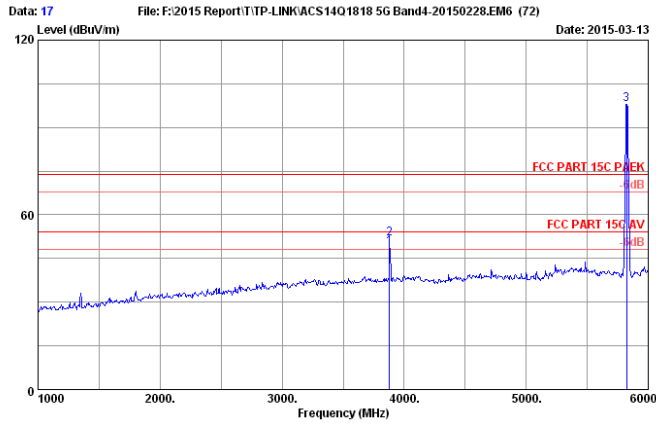
Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5785MHz



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5785MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.03	13.32	34.76	34.28	51.87	54.00	2.13	Average
2	11570.000	39.03	13.32	34.76	46.43	64.02	74.00	9.98	Peak

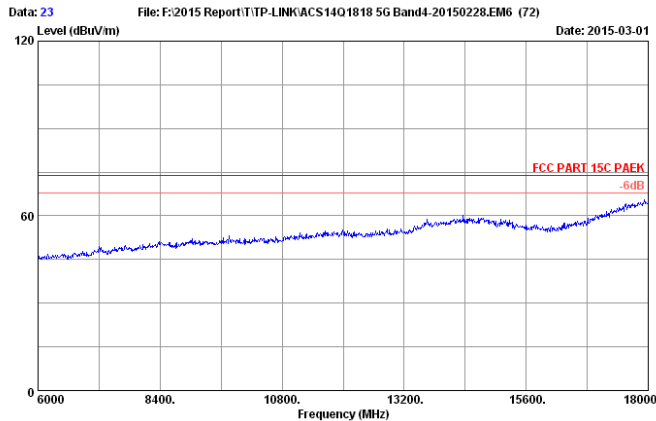
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



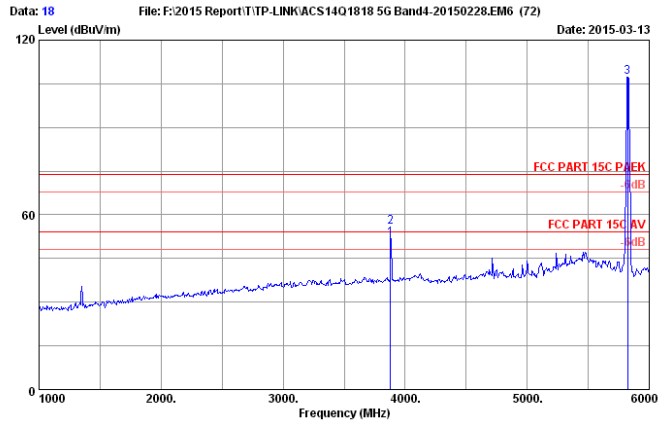
Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3880.550	32.31	7.59	35.70	44.69	46.89	54.00	5.11	Average
2	3880.550	32.31	7.59	35.70	47.53	51.73	74.00	22.27	Peak
3	5825.000	34.13	9.63	35.70	89.90	97.96	74.00	-23.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



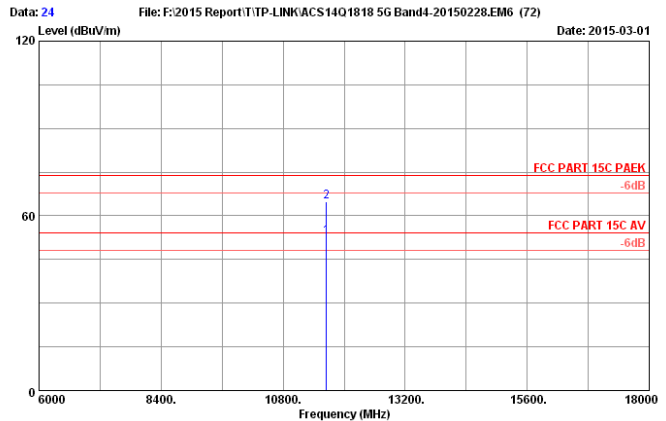
Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3880.254	32.31	7.59	35.70	47.74	51.94	54.00	2.06	Average
2	3880.254	32.31	7.59	35.70	51.54	55.74	74.00	18.26	Peak
3	5825.000	34.13	9.63	35.70	99.37	107.43	74.00	-33.43	Peak

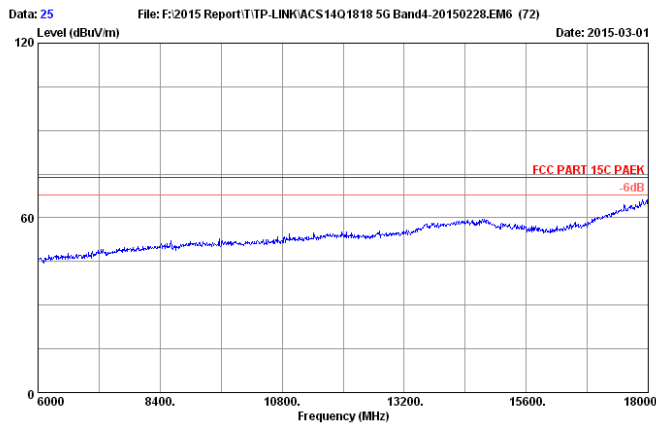
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



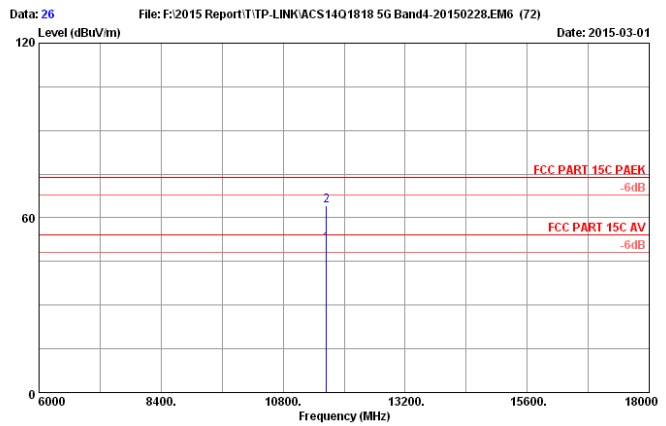
Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11650.000	39.06	13.37	34.78	35.23	52.88	54.00	1.12	Average
2	11650.000	39.06	13.37	34.78	47.09	64.74	74.00	9.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

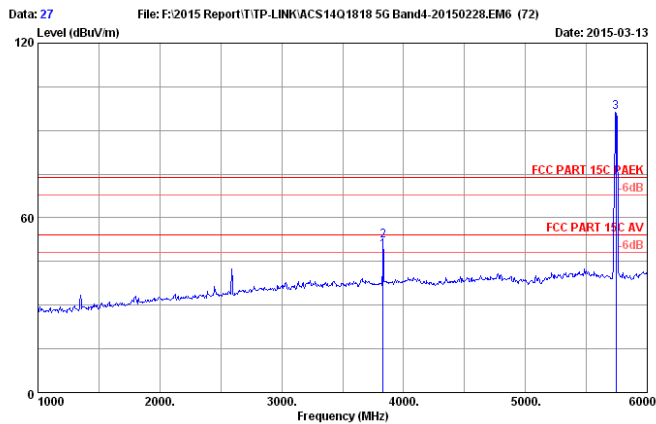


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11650.000	39.06	13.37	34.78	33.59	51.24	54.00	2.76	Average
2	11650.000	39.06	13.37	34.78	46.45	64.10	74.00	9.90	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

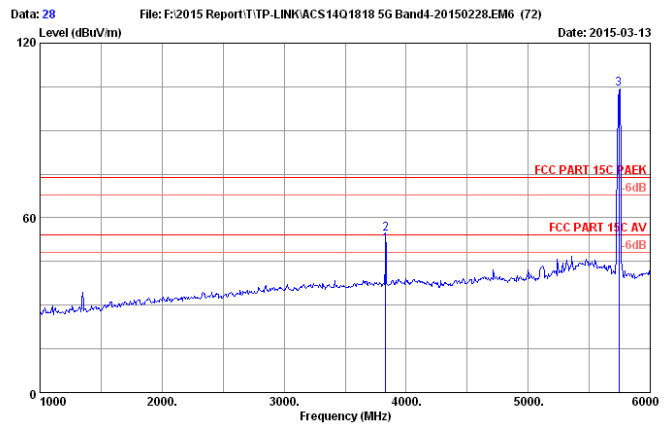
IEEE 802.11nHT20



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3830.155	32.19	7.54	35.70	44.85	48.88	54.00	5.12	Average
2	3830.155	32.19	7.54	35.70	48.24	52.27	74.00	21.73	Peak
3	5745.000	34.10	9.55	35.70	88.35	96.30	74.00	-22.30	Peak

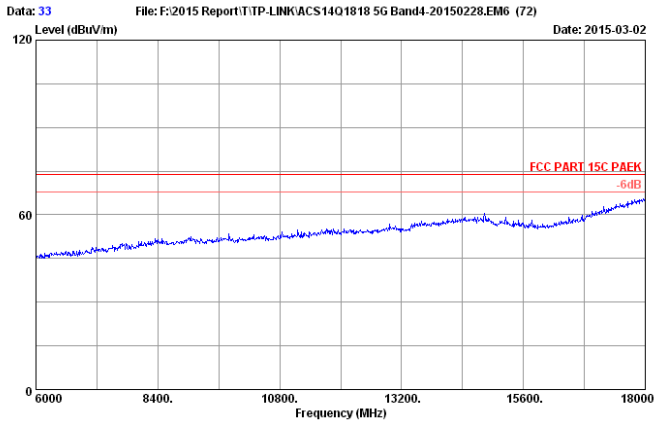
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



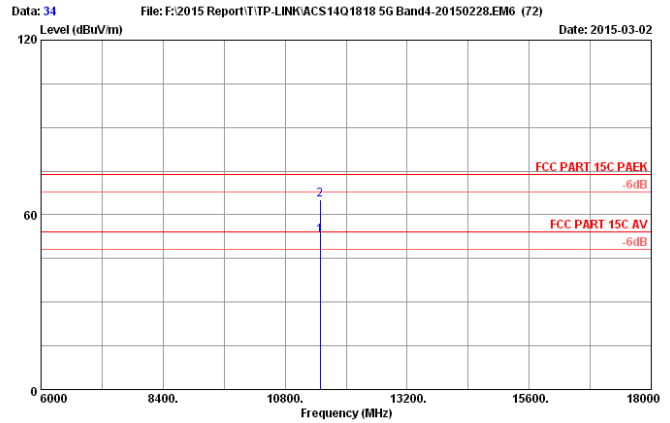
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3830.517	32.19	7.54	35.70	46.82	50.85	54.00	3.15	Average
2	3830.517	32.19	7.54	35.70	50.36	54.39	74.00	19.61	Peak
3	5745.000	34.10	9.55	35.70	96.18	104.13	74.00	-30.13	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



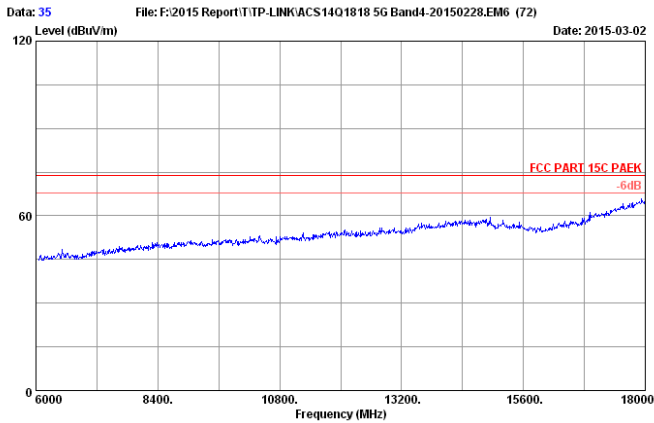
Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz



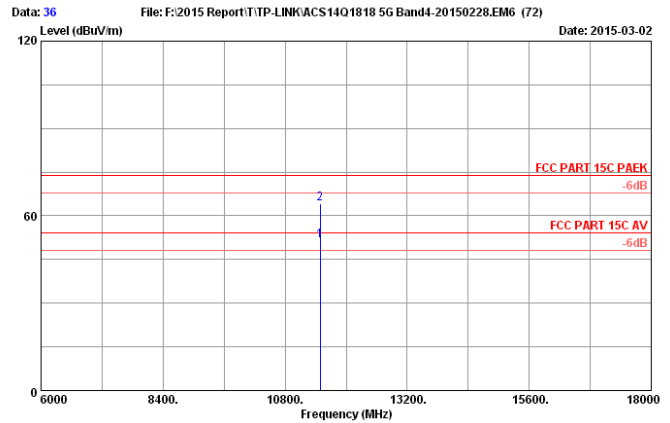
Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.99	13.28	34.75	35.31	52.83	54.00	1.17	Average
2	11490.000	38.99	13.28	34.75	47.75	65.27	74.00	8.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



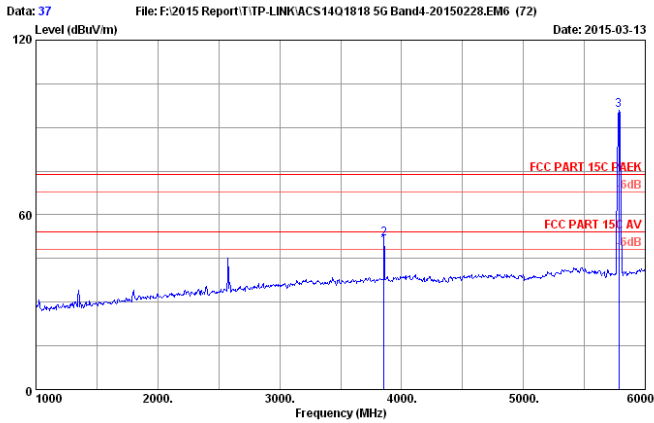
Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.99	13.28	34.75	33.94	51.46	54.00	2.54	Average
2	11490.000	38.99	13.28	34.75	46.65	64.17	74.00	9.83	Peak

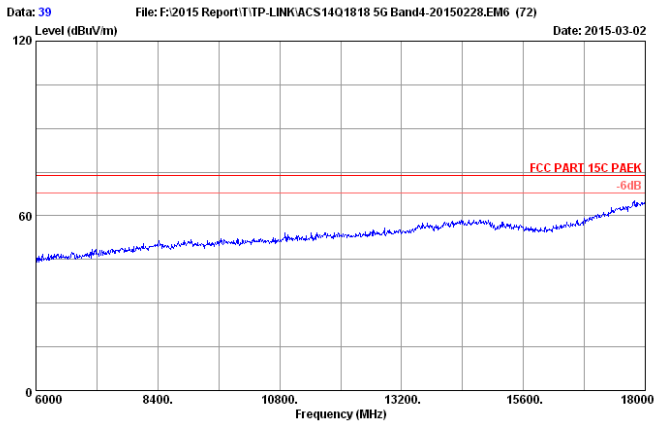
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



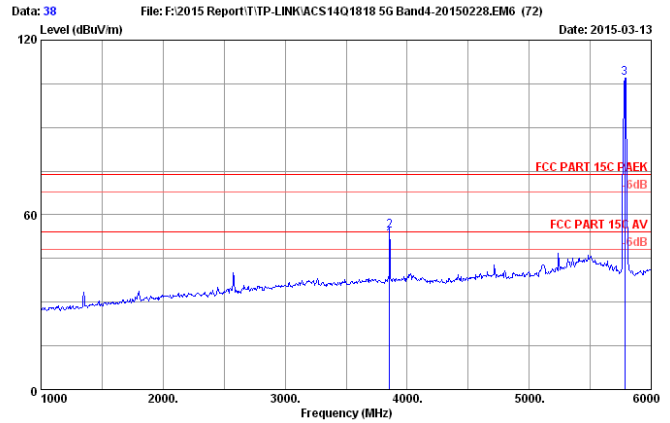
Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5785MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3855.624	32.25	7.57	35.70	45.16	49.28	54.00	4.72	Average
2	3855.624	32.25	7.57	35.70	47.85	51.97	74.00	22.03	Peak
3	5785.000	34.11	9.59	35.70	87.87	95.87	74.00	-21.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported



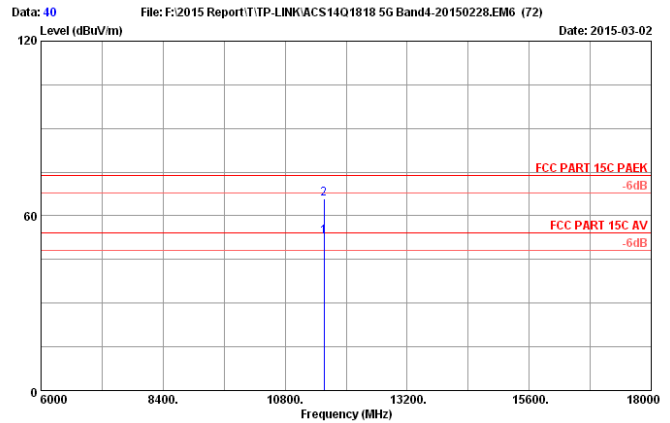
Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5785MHz



Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5785MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3855.265	32.25	7.57	35.70	47.52	51.64	54.00	2.36	Average
2	3855.265	32.25	7.57	35.70	50.21	54.33	74.00	19.67	Peak
3	5785.000	34.11	9.59	35.70	98.99	106.99	74.00	-32.99	Peak

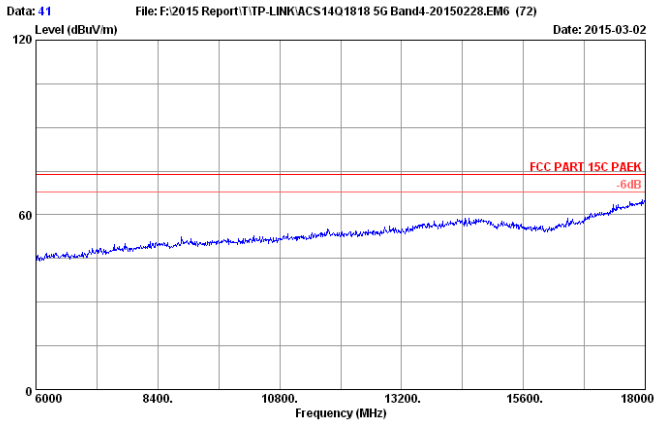
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported



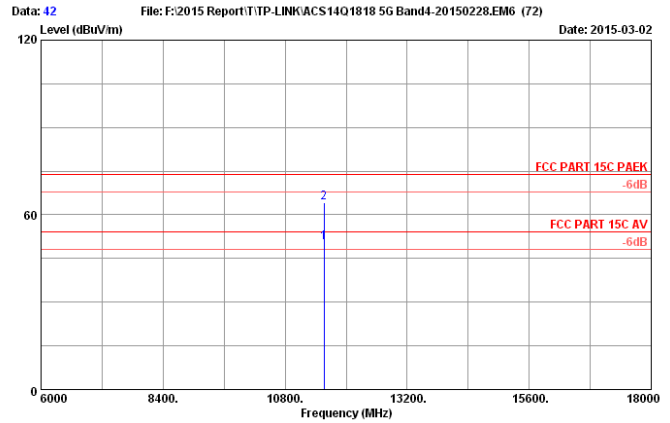
Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5785MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.03	13.32	34.76	35.32	52.91	54.00	1.09	Average
2	11570.000	39.03	13.32	34.76	48.18	65.77	74.00	8.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



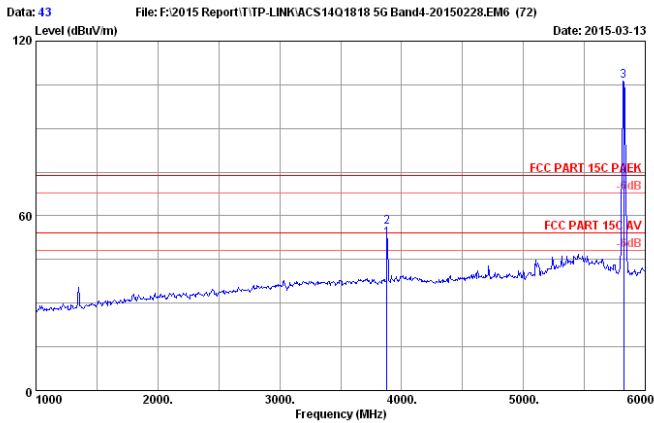
Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5785MHz



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5785MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.03	13.32	34.76	32.84	50.43	54.00	3.57	Average
2	11570.000	39.03	13.32	34.76	46.47	64.06	74.00	9.94	Peak

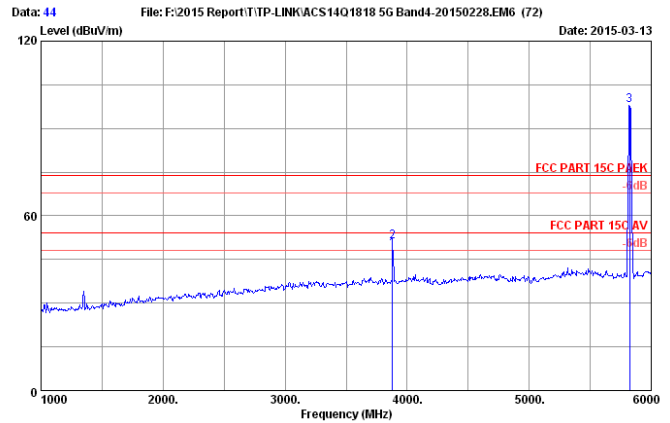
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3880.145	32.31	7.59	35.70	47.92	52.12	54.00	1.88	Average
2	3880.145	32.31	7.59	35.70	51.79	55.99	74.00	18.01	Peak
3	5825.000	34.13	9.63	35.70	98.20	106.26	74.00	-32.26	Peak

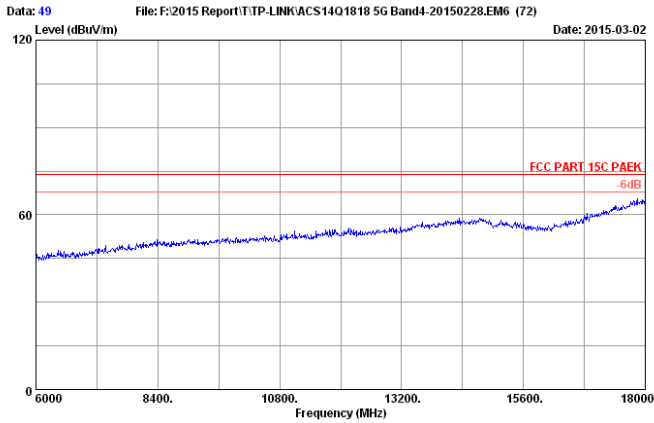
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



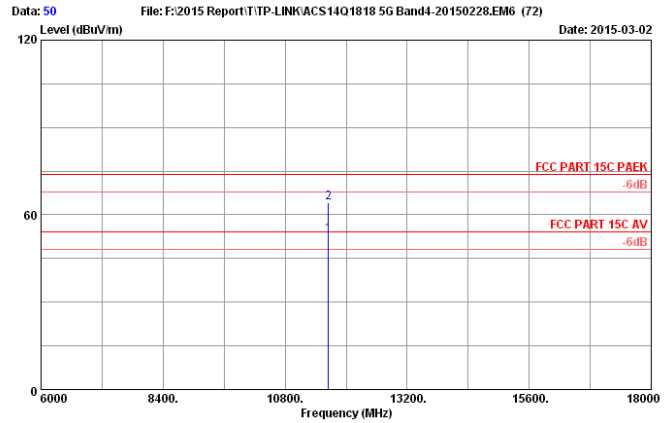
Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3880.524	32.31	7.59	35.70	44.19	48.39	54.00	5.61	Average
2	3880.524	32.31	7.59	35.70	46.97	51.17	74.00	22.83	Peak
3	5825.000	34.13	9.63	35.70	89.73	97.79	74.00	-23.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



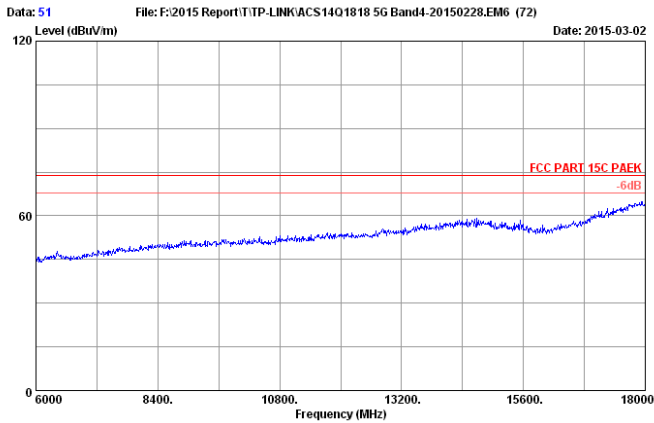
Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz



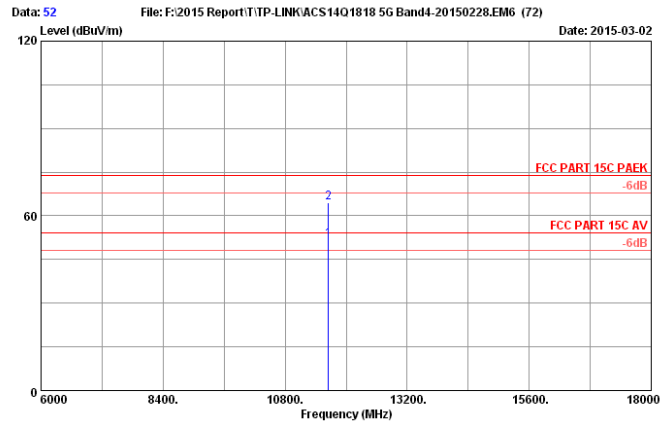
Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11650.000	39.06	13.37	34.78	35.36	53.01	54.00	0.99	Average
2	11650.000	39.06	13.37	34.78	46.53	64.18	74.00	9.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

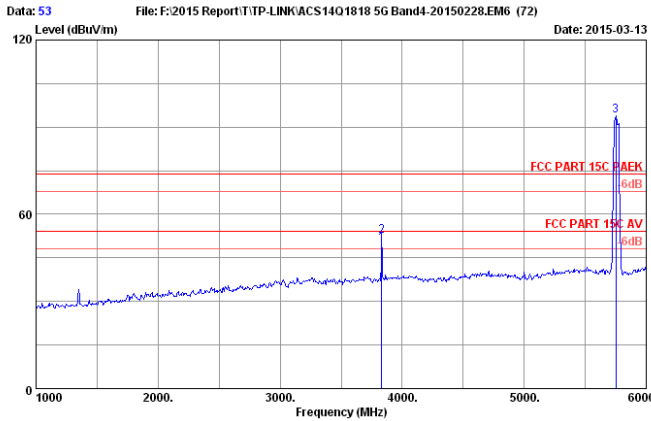


Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11650.000	39.06	13.37	34.78	34.19	51.84	54.00	2.16	Average
2	11650.000	39.06	13.37	34.78	46.96	64.61	74.00	9.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

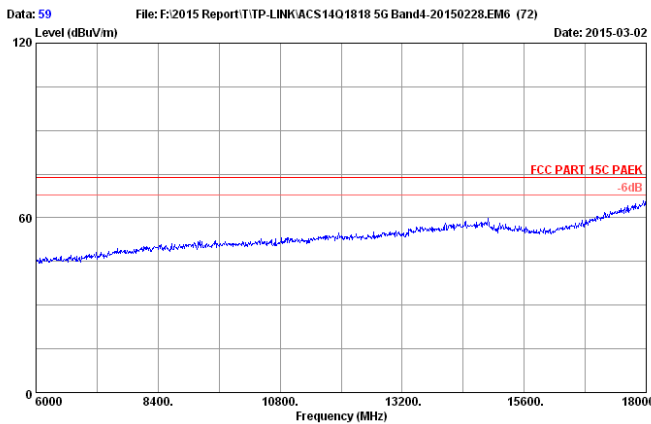
IEEE 802.11nHT40



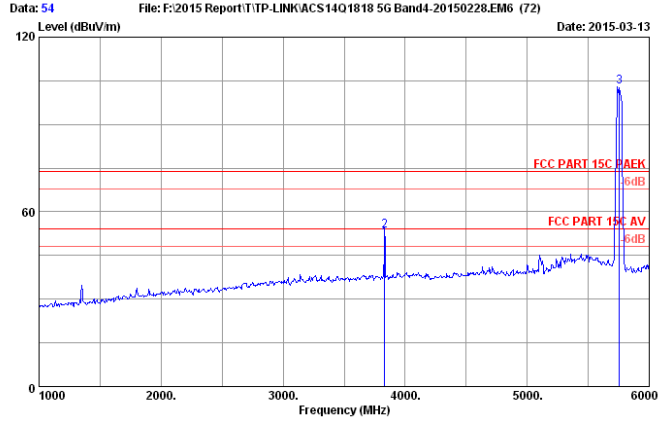
Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5755MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3830.556	32.19	7.54	35.70	45.62	49.65	54.00	4.35	Average
2	3830.556	32.19	7.54	35.70	48.52	52.55	74.00	21.45	Peak
3	5750.000	34.10	9.55	35.70	86.00	93.95	74.00	-19.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



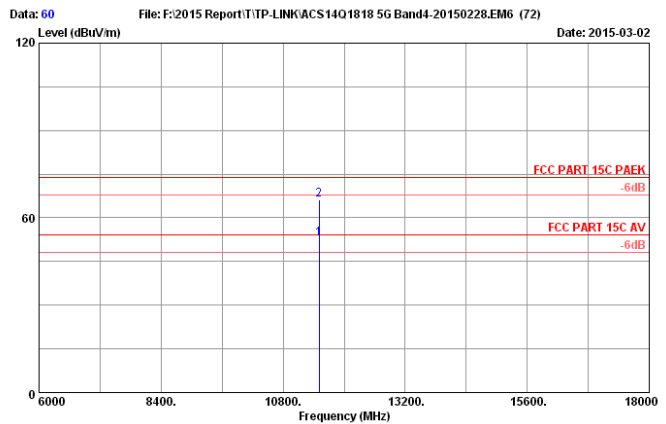
Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11nHT40 5755MHz



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5755MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3830.551	32.19	7.54	35.70	46.86	50.89	54.00	3.11	Average
2	3830.551	32.19	7.54	35.70	49.44	53.47	74.00	20.53	Peak
3	5755.000	34.10	9.56	35.70	95.02	102.98	74.00	-28.98	Peak

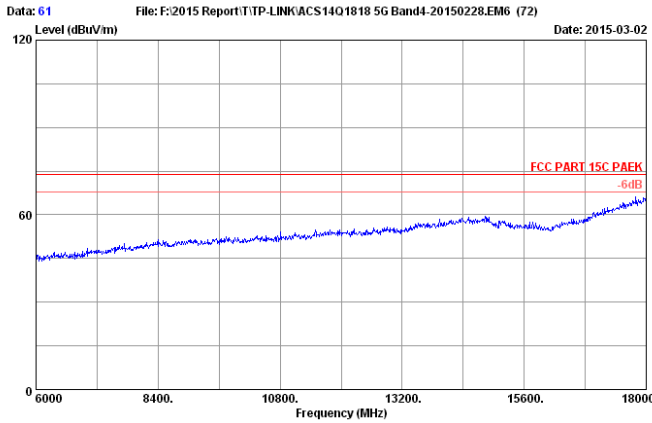
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



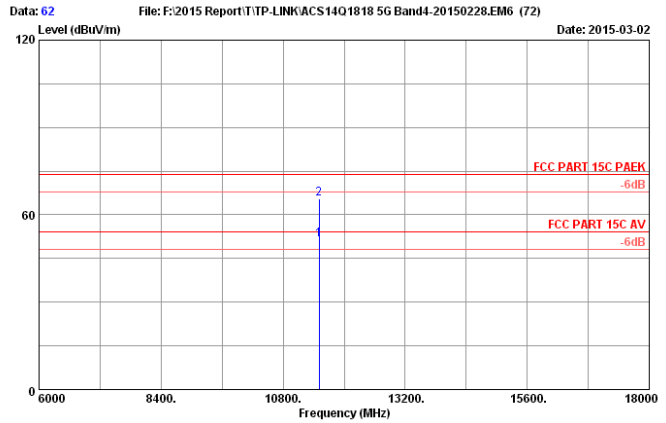
Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11nHT40 5755MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11510.000	39.00	13.29	34.75	35.14	52.68	54.00	1.32	Average
2	11510.000	39.00	13.29	34.75	48.54	66.08	74.00	7.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



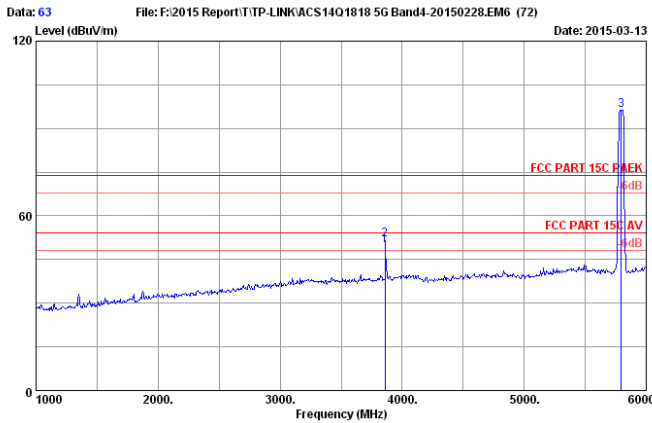
Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11nHT40 5755MHz



Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11nHT40 5755MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11510.000	39.00	13.29	34.75	34.00	51.54	54.00	2.46	Average
2	11510.000	39.00	13.29	34.75	48.09	65.63	74.00	8.37	Peak

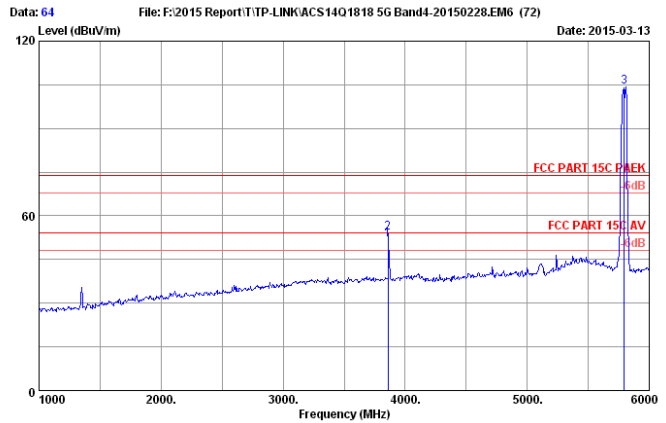
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5795MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3860.430	32.27	7.57	35.70	45.71	49.85	54.00	4.15	Average
2	3860.430	32.27	7.57	35.70	47.65	51.79	74.00	22.21	Peak
3	5795.000	34.12	9.60	35.70	88.30	96.32	74.00	-22.32	Peak

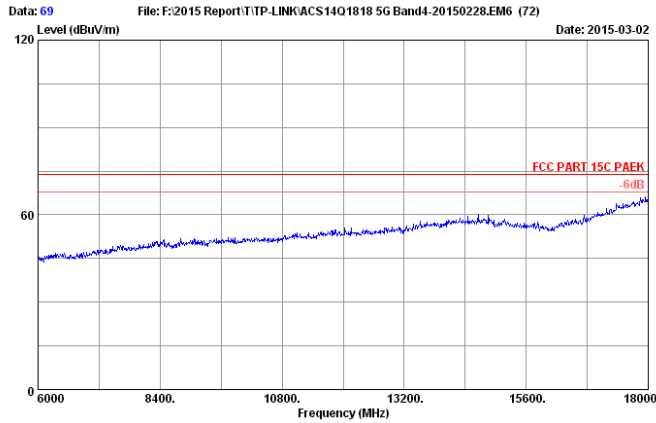
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



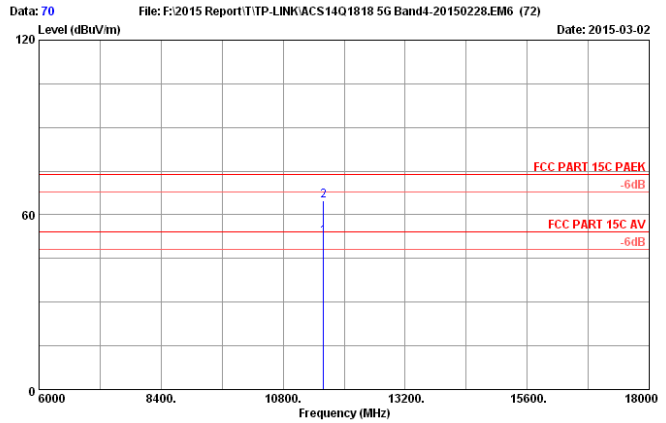
Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5795MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3860.520	32.27	7.57	35.70	47.81	51.95	54.00	2.05	Average
2	3860.520	32.27	7.57	35.70	50.16	54.30	74.00	19.70	Peak
3	5795.000	34.12	9.60	35.70	96.15	104.17	74.00	-30.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



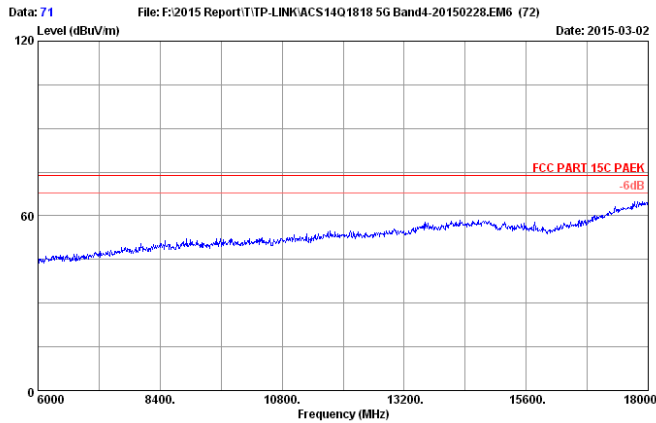
Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11nHT40 5795MHz



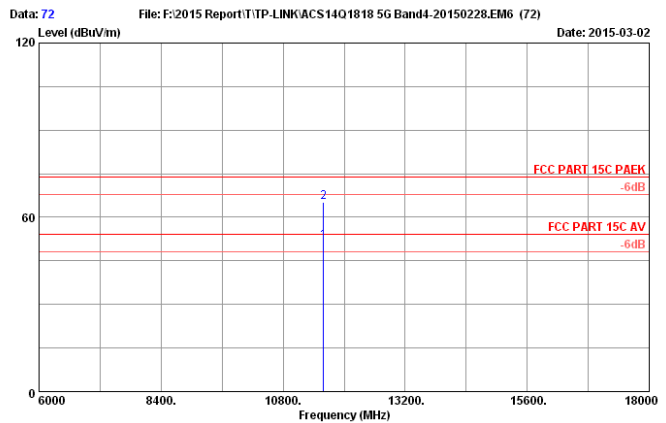
Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11nHT40 5795MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11590.000	39.04	13.34	34.77	34.78	52.39	54.00	1.61	Average
2	11590.000	39.04	13.34	34.77	47.35	64.96	74.00	9.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11nHT40 5795MHz



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11nHT40 5795MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11590.000	39.04	13.34	34.77	34.10	51.71	54.00	2.29	Average
2	11590.000	39.04	13.34	34.77	47.72	65.33	74.00	8.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

5. BAND EDGE COMPLIANCE TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2.	Amp	HP	8449B	3008A02495	Apr. 28,14	1 Year
3.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
4.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,14	1 Year
5	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,14	1 Year

5.2. Limit

For transmitters operating in the 5.15-5.25 GHz, all emissions outside of those band shall not exceed an EIRP of -27 dBm/MHz. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz

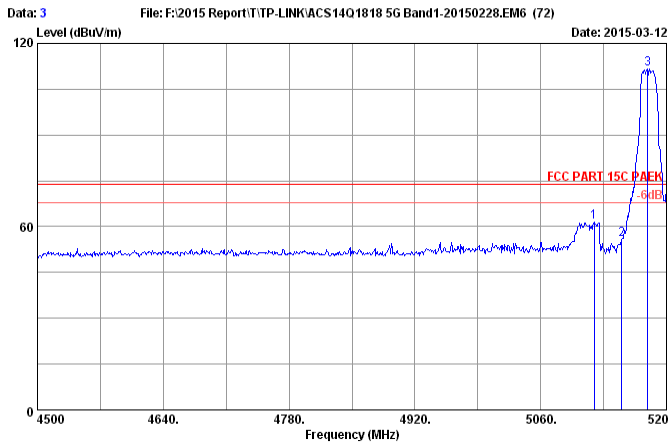
5.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO
5. Per KDB789033 clause H 2)d). if the test distance is 3m, the $EIRP(dBm) = E(dBuV/m) - 95.2$
Get the final compare with limit.

5.4. Test Results

Pass (The testing data was attached in the next pages.)

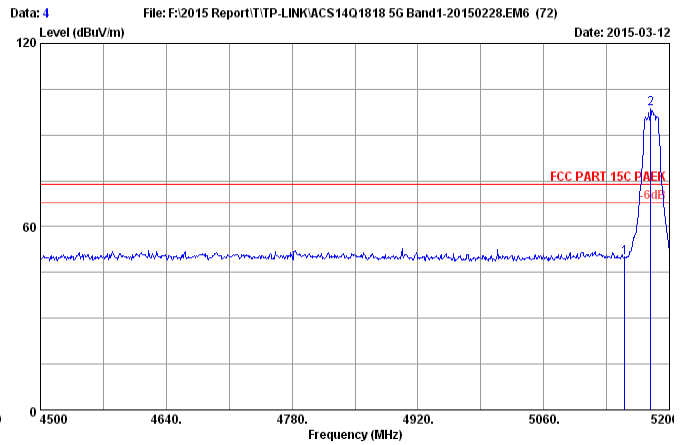
U-NII 5180-5240MHz Band: IEEE 802.11a



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5119.500	33.62	8.89	34.45	53.38	61.44	74.00	12.56	Peak
2	5150.000	33.68	8.92	34.45	47.81	55.96	74.00	18.04	Peak
3	5179.000	33.73	8.95	34.45	103.43	111.66	74.00	-37.66	Peak

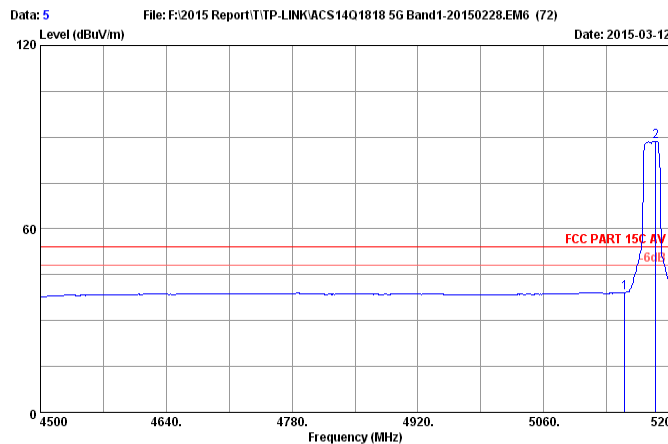
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.68	8.92	34.45	41.74	49.89	74.00	24.11	Peak
2	5179.000	33.73	8.95	34.45	90.23	98.46	74.00	-24.46	Peak

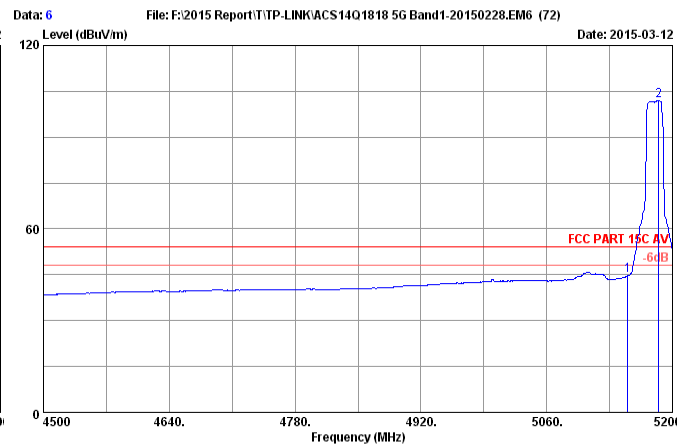
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.300	33.68	8.92	34.45	31.08	39.23	54.00	14.77	Average
2	5184.600	33.74	8.96	34.45	80.49	88.74	54.00	-34.74	Average

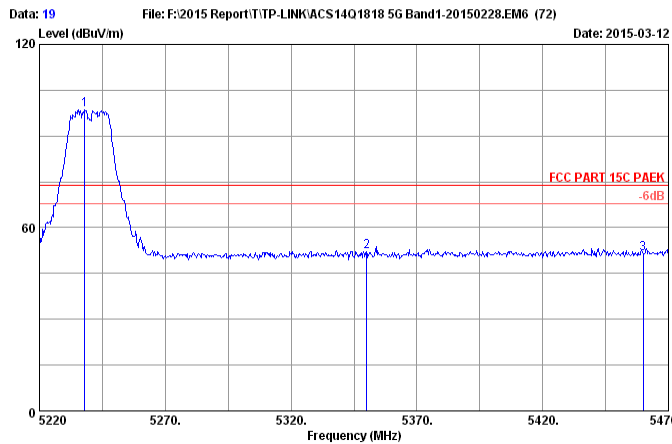
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.300	33.68	8.92	34.45	36.50	44.65	54.00	9.35	Average
2	5184.600	33.74	8.96	34.45	93.71	101.96	54.00	-47.96	Average

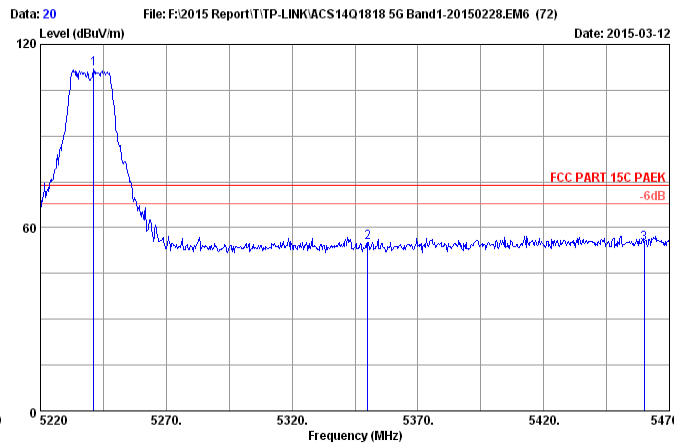
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.000	33.84	9.01	34.45	90.24	98.64	74.00	-24.64	Peak
2	5350.000	34.04	9.13	34.45	43.45	52.17	74.00	21.83	Peak
3	5460.000	34.23	9.25	34.45	42.57	51.60	74.00	22.40	Peak

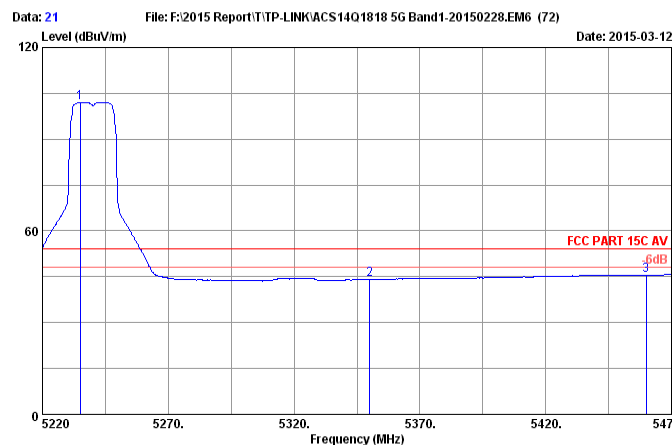
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.250	33.84	9.02	34.45	103.57	111.98	74.00	-37.98	Peak
2	5350.000	34.04	9.13	34.45	46.53	55.25	74.00	18.75	Peak
3	5460.000	34.23	9.25	34.45	45.77	54.80	74.00	19.20	Peak

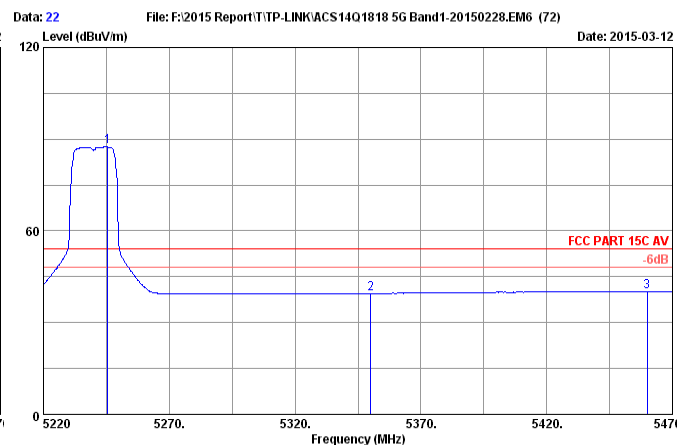
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5235.000	33.83	9.01	34.45	93.67	102.06	54.00	-48.06	Average
2	5350.000	34.04	9.13	34.45	35.39	44.11	54.00	9.89	Average
3	5460.000	34.23	9.25	34.45	36.43	45.46	54.00	8.54	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

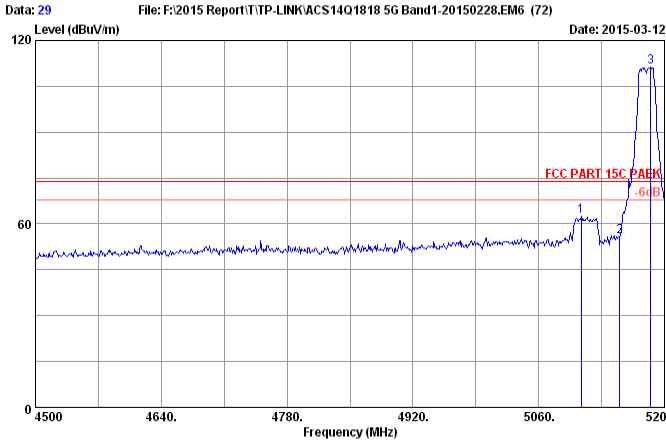


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5245.500	33.85	9.02	34.45	79.04	87.46	54.00	-33.46	Average
2	5350.000	34.04	9.13	34.45	30.78	39.50	54.00	14.50	Average
3	5460.000	34.23	9.25	34.45	30.99	40.02	54.00	13.98	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

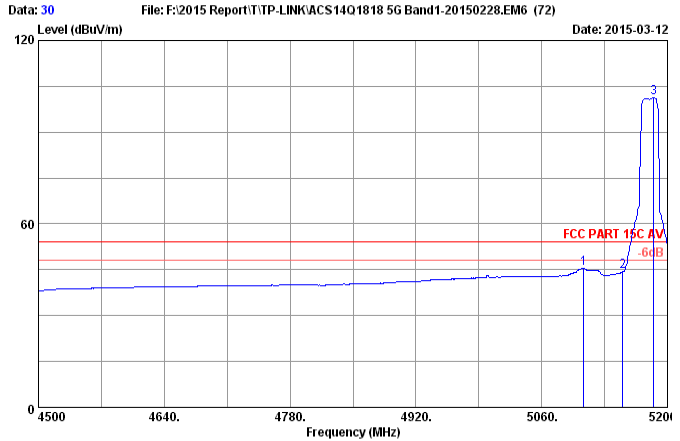
IEEE 802.11nHT20



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5107.600	33.60	8.88	34.45	54.38	62.41	74.00	11.59	Peak
2	5150.000	33.68	8.92	34.45	47.67	55.82	74.00	18.18	Peak
3	5184.600	33.74	8.96	34.45	103.03	111.28	74.00	-37.28	Peak

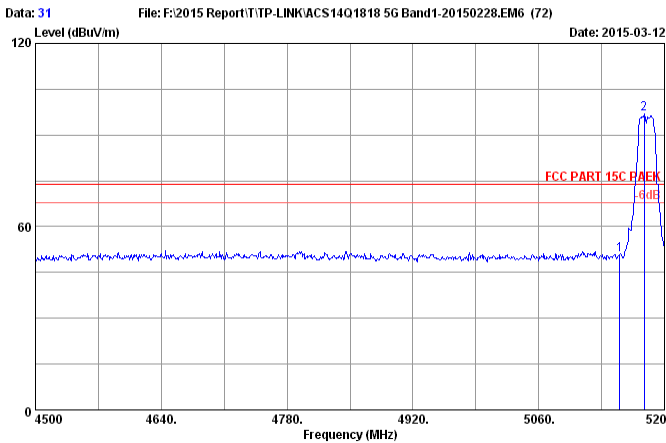
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5106.900	33.60	8.88	34.45	37.34	45.37	54.00	8.63	Average
2	5150.300	33.68	8.92	34.45	36.21	44.36	54.00	9.64	Average
3	5184.600	33.74	8.96	34.45	92.99	101.24	54.00	-47.24	Average

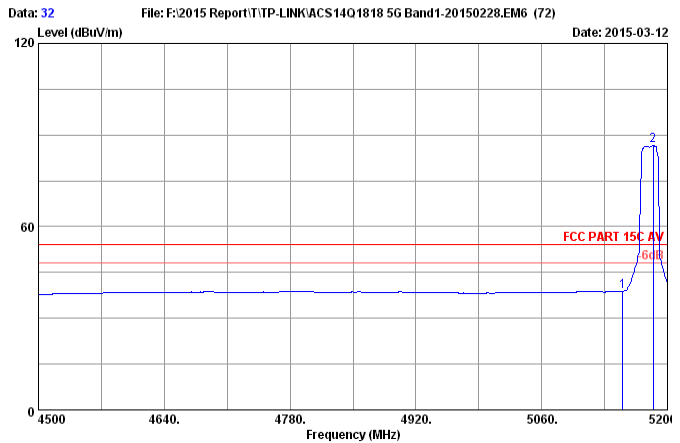
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.300	33.68	8.92	34.45	42.80	50.95	74.00	23.05	Peak
2	5177.600	33.73	8.95	34.45	88.56	96.79	74.00	-22.79	Peak

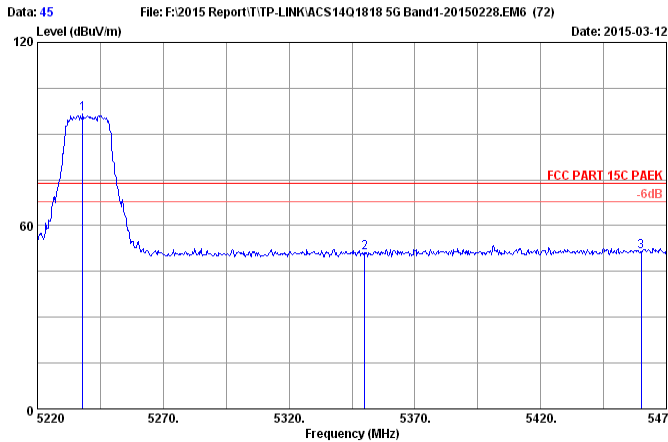
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5180MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.300	33.68	8.92	34.45	30.77	38.92	54.00	15.08	Average
2	5183.900	33.74	8.96	34.45	78.26	86.51	54.00	-32.51	Average

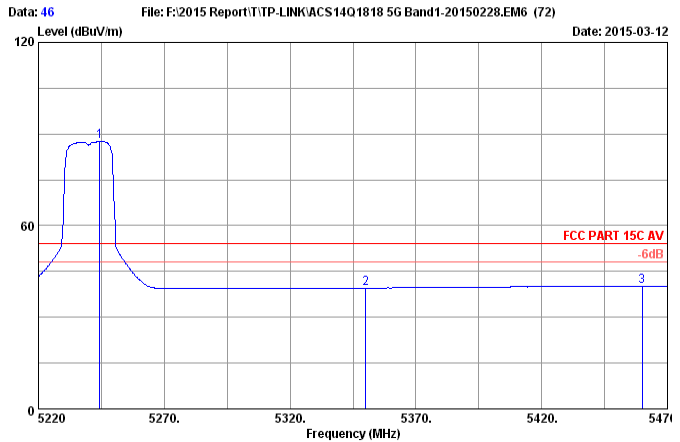
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.000	33.84	9.01	34.45	88.04	96.44	74.00	-22.44	Peak
2	5350.000	34.04	9.13	34.45	42.31	51.03	74.00	22.97	Peak
3	5460.000	34.23	9.25	34.45	42.44	51.47	74.00	22.53	Peak

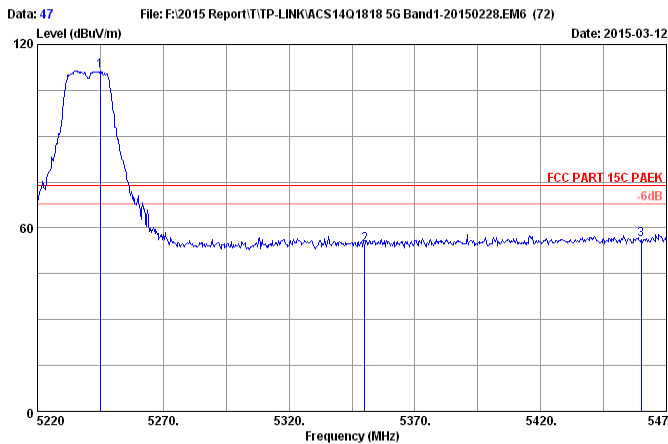
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5244.250	33.85	9.02	34.45	79.15	87.57	54.00	-33.57	Average
2	5350.000	34.04	9.13	34.45	30.79	39.51	54.00	14.49	Average
3	5460.000	34.23	9.25	34.45	31.00	40.03	54.00	13.97	Average

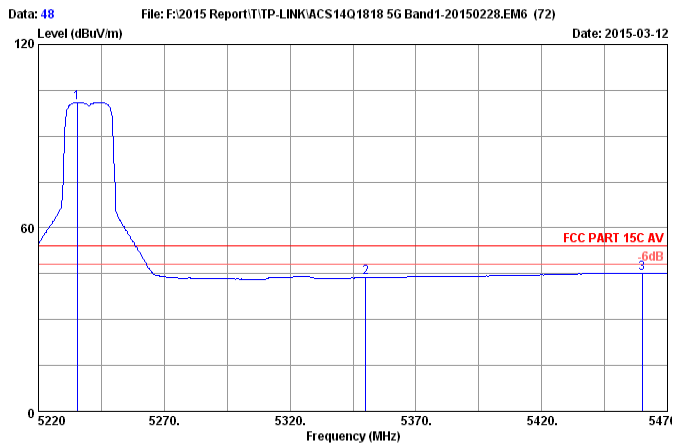
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5245.000	33.85	9.02	34.45	102.82	111.24	74.00	-37.24	Peak
2	5350.000	34.04	9.13	34.45	45.88	54.60	74.00	19.40	Peak
3	5460.000	34.23	9.25	34.45	47.13	56.16	74.00	17.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

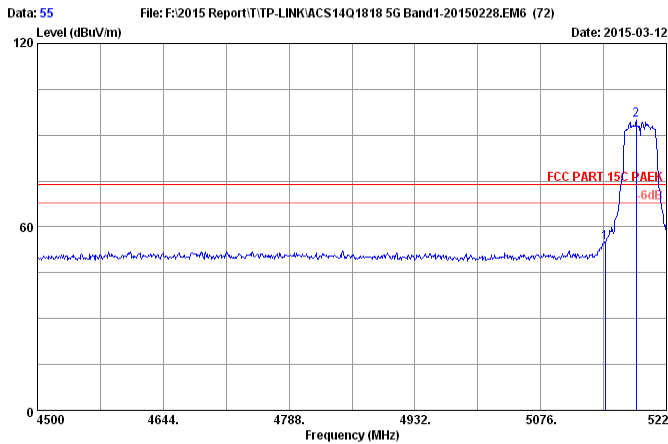


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5240MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5235.500	33.83	9.01	34.45	92.62	101.01	54.00	-47.01	Average
2	5350.000	34.04	9.13	34.45	34.96	43.68	54.00	10.32	Average
3	5460.000	34.23	9.25	34.45	35.99	45.02	54.00	8.98	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

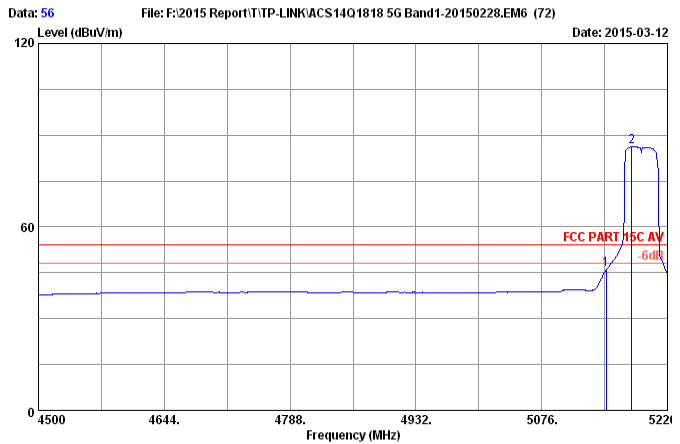
IEEE 802.11nHT40



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.160	33.68	8.92	34.45	46.69	54.84	74.00	19.16	Peak
2	5185.440	33.74	8.96	34.45	86.84	95.09	74.00	-21.09	Peak

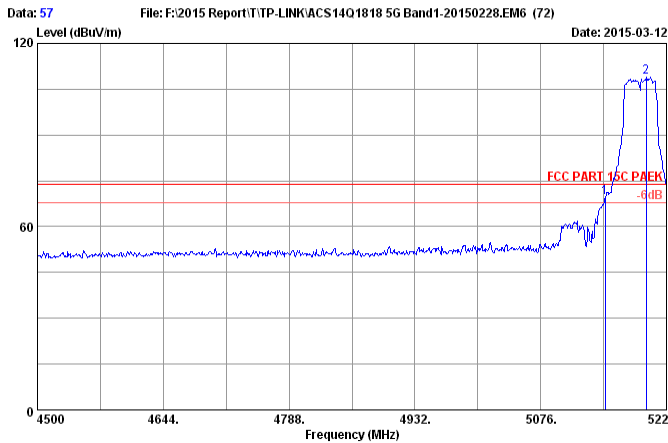
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.160	33.68	8.92	34.45	38.02	46.17	54.00	7.83	Average
2	5178.960	33.73	8.95	34.45	78.09	86.32	54.00	-32.32	Average

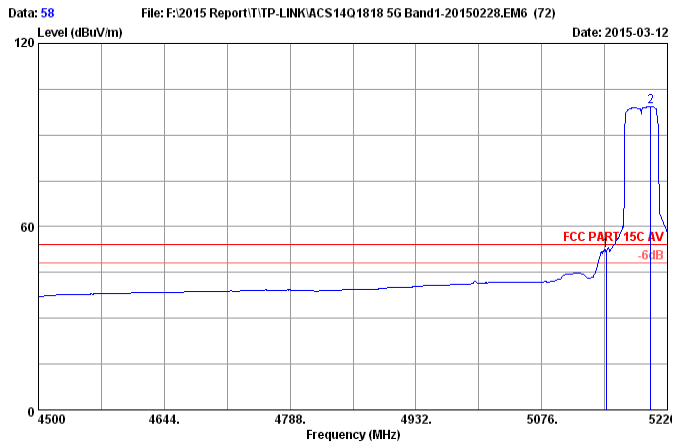
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.160	33.68	8.92	34.45	61.26	69.41	74.00	4.59	Peak
2	5196.960	33.76	8.97	34.45	100.56	108.84	74.00	-34.84	Peak

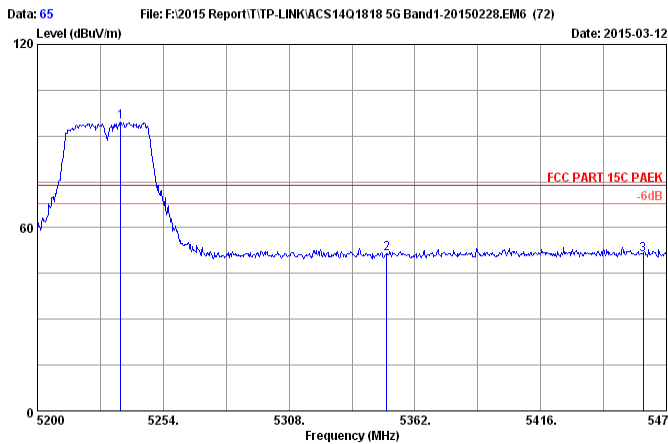
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5190MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.160	33.68	8.92	34.45	43.95	52.10	54.00	1.90	Average
2	5200.560	33.77	8.98	34.45	91.12	99.42	54.00	-45.42	Average

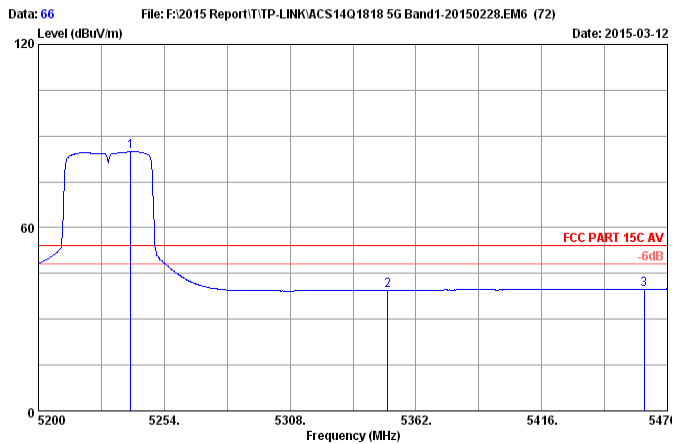
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 65
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5230MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5235.640	33.83	9.01	34.45	86.09	94.48	74.00	-20.48	Peak
2	5350.000	34.04	9.13	34.45	42.69	51.41	74.00	22.59	Peak
3	5460.000	34.23	9.25	34.45	42.22	51.25	74.00	22.75	Peak

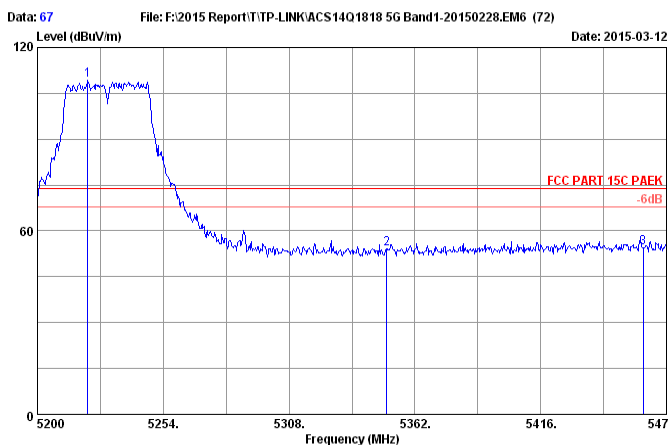
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5230MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5239.690	33.84	9.02	34.45	76.43	84.84	54.00	-30.84	Average
2	5350.000	34.04	9.13	34.45	30.79	39.51	54.00	14.49	Average
3	5460.000	34.23	9.25	34.45	30.79	39.82	54.00	14.18	Average

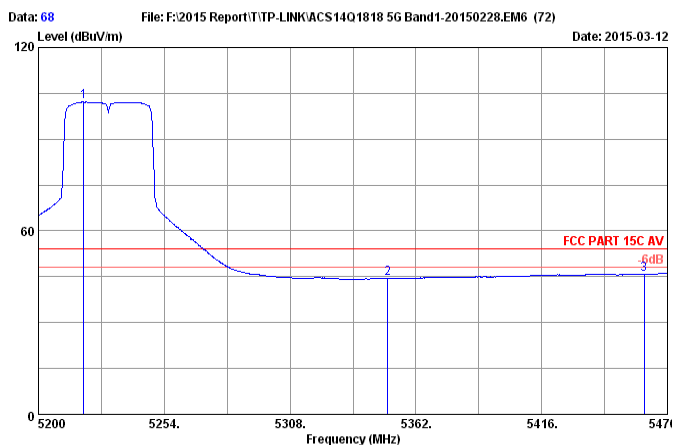
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5230MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5221.600	33.81	9.00	34.45	100.80	109.16	74.00	-35.16	Peak
2	5350.000	34.04	9.13	34.45	45.31	54.03	74.00	19.97	Peak
3	5460.000	34.23	9.25	34.45	45.29	54.32	74.00	19.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

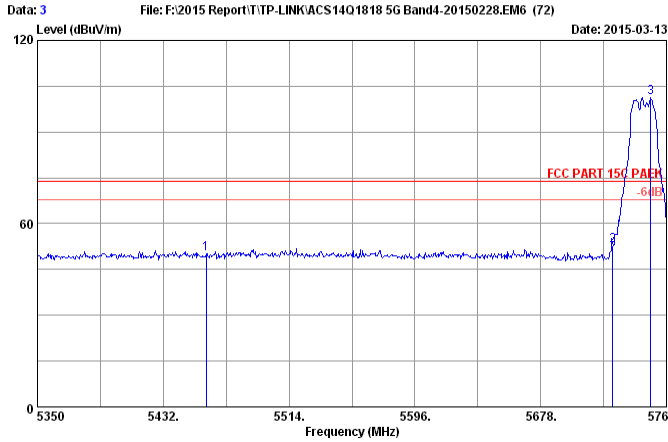


Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5230MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5219.440	33.81	8.99	34.45	93.80	102.15	54.00	-48.15	Average
2	5350.000	34.04	9.13	34.45	35.73	44.45	54.00	9.55	Average
3	5460.000	34.23	9.25	34.45	36.79	45.82	54.00	8.18	Average

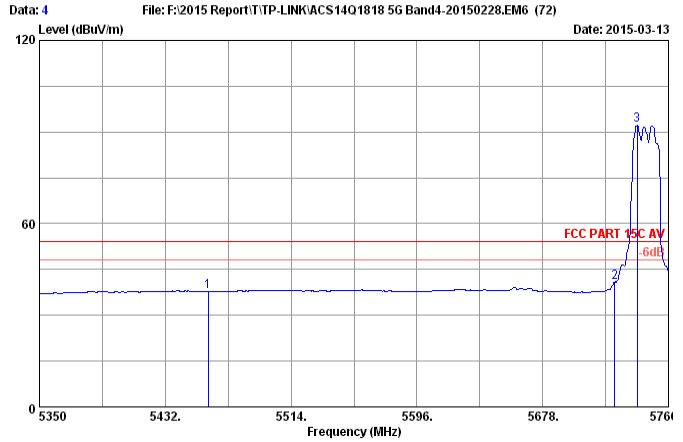
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

U-NII 5745-5825MHz Band: IEEE 802.11a



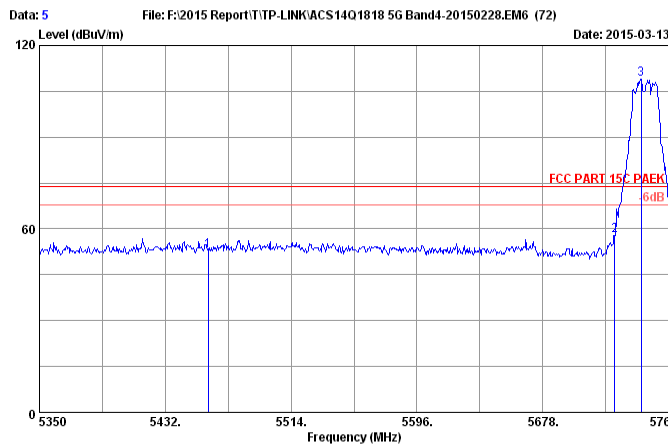
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	42.59	50.08	74.00	23.92	Peak
2	5725.000	34.09	9.52	35.70	44.77	52.68	74.00	21.32	Peak
3	5749.750	34.10	9.55	35.70	93.41	101.36	74.00	-27.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



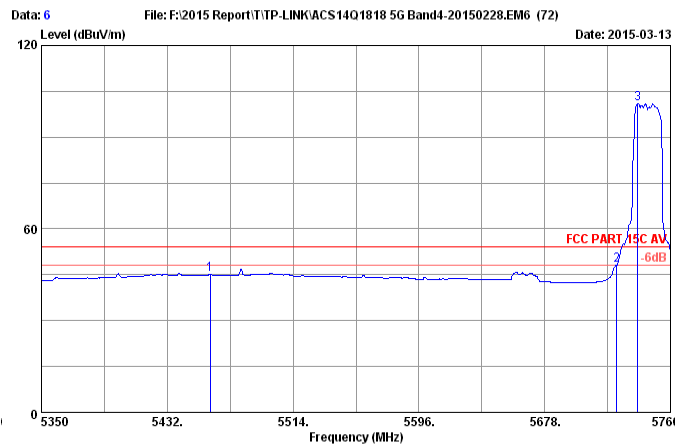
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5459.880	33.94	9.25	35.70	30.28	37.77	54.00	16.23	Average
2	5725.000	34.09	9.52	35.70	33.03	40.94	54.00	13.06	Average
3	5739.500	34.10	9.54	35.70	64.21	92.15	54.00	-38.15	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



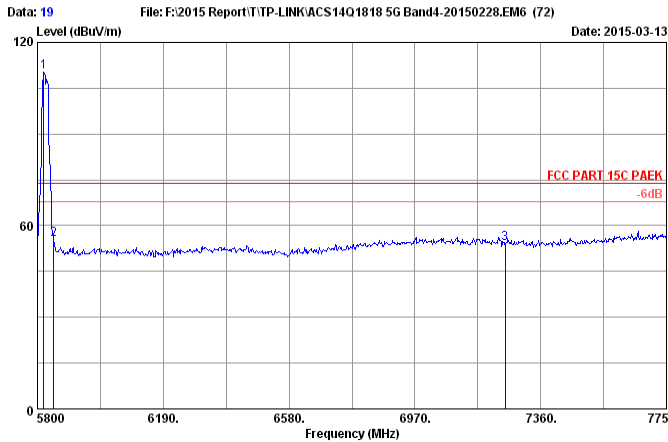
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5459.880	33.94	9.25	35.70	45.32	52.81	74.00	21.19	Peak
2	5725.000	34.09	9.52	35.70	50.03	57.94	74.00	16.06	Peak
3	5742.370	34.10	9.54	35.70	101.01	108.95	74.00	-34.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	37.51	45.00	54.00	9.00	Average
2	5725.000	34.09	9.52	35.70	40.33	48.24	54.00	5.76	Average
3	5738.680	34.10	9.54	35.70	93.08	101.02	54.00	-47.02	Average

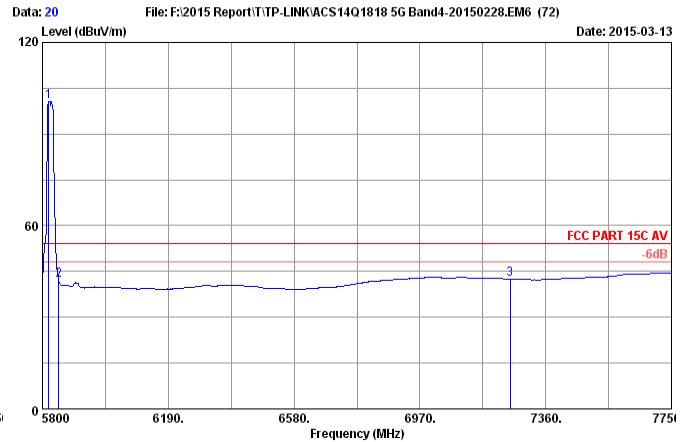
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5819.500	34.13	9.62	35.70	102.30	110.35	74.00	-36.35	Peak
2	5850.000	34.14	9.66	35.70	47.43	55.53	74.00	18.47	Peak
3	7250.000	36.05	10.99	35.45	42.60	54.19	74.00	19.81	Peak

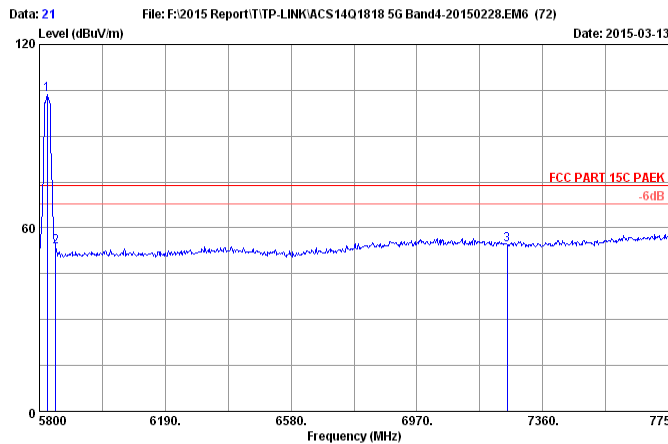
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5819.500	34.13	9.62	35.70	92.59	100.64	54.00	-46.64	Average
2	5850.000	34.14	9.66	35.70	34.05	42.15	54.00	11.85	Average
3	7250.000	36.05	10.99	35.45	30.99	42.58	54.00	11.42	Average

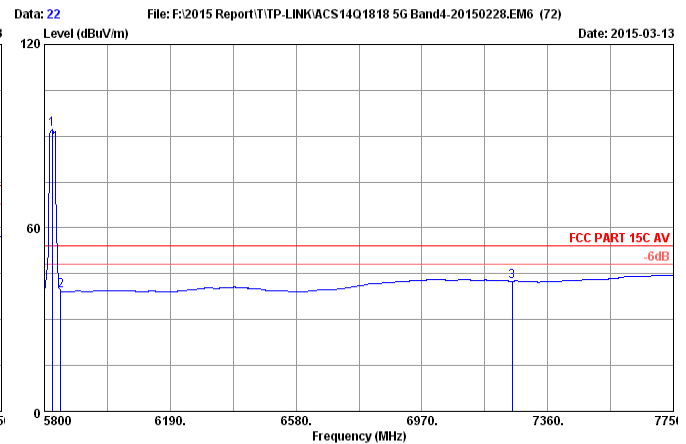
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.400	34.13	9.63	35.70	95.57	103.63	74.00	-29.63	Peak
2	5850.000	34.14	9.66	35.70	45.68	53.78	74.00	20.22	Peak
3	7250.000	36.05	10.99	35.45	43.02	54.61	74.00	19.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

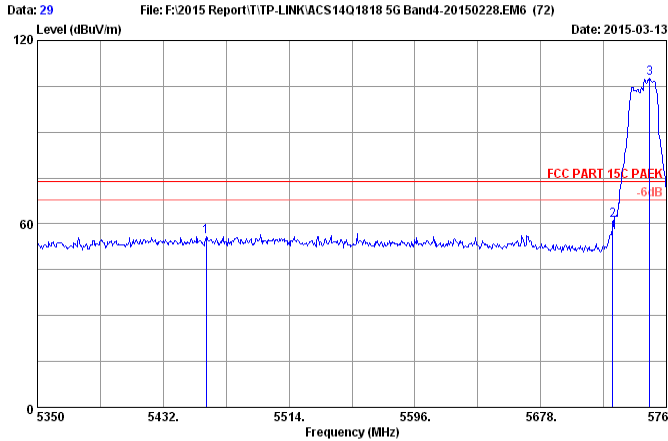


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11a 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.400	34.13	9.63	35.70	84.16	92.22	54.00	-38.22	Average
2	5850.000	34.14	9.66	35.70	31.30	39.40	54.00	14.60	Average
3	7250.000	36.05	10.99	35.45	31.00	42.59	54.00	11.41	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

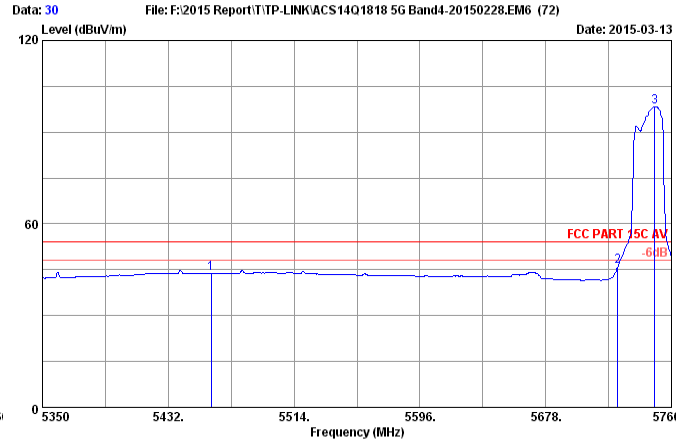
IEEE 802.11nHT20



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5459.880	33.94	9.25	35.70	48.18	55.67	74.00	18.33	Peak
2	5725.000	34.09	9.52	35.70	53.38	61.29	74.00	12.71	Peak
3	5748.930	34.10	9.55	35.70	99.64	107.59	74.00	-33.59	Peak

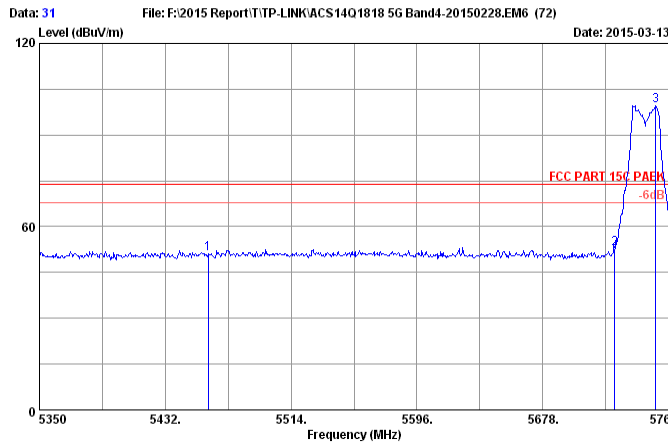
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5459.880	33.94	9.25	35.70	36.42	43.91	54.00	10.09	Average
2	5725.000	34.09	9.52	35.70	38.10	46.01	54.00	7.99	Average
3	5748.930	34.10	9.55	35.70	90.38	98.33	54.00	-44.33	Average

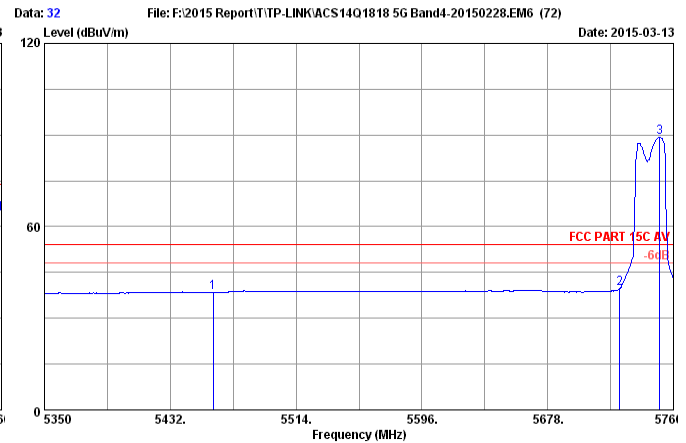
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	43.63	51.12	74.00	22.88	Peak
2	5725.000	34.09	9.52	35.70	45.05	52.96	74.00	21.04	Peak
3	5751.800	34.10	9.55	35.70	91.61	99.56	74.00	-25.56	Peak

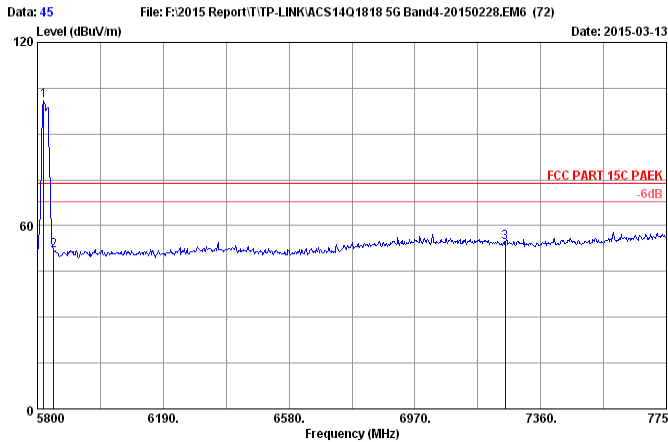
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5745MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5459.880	33.94	9.25	35.70	31.02	38.51	54.00	15.49	Average
2	5725.000	34.09	9.52	35.70	31.93	39.84	54.00	14.16	Average
3	5750.980	34.10	9.55	35.70	81.35	89.30	54.00	-35.30	Average

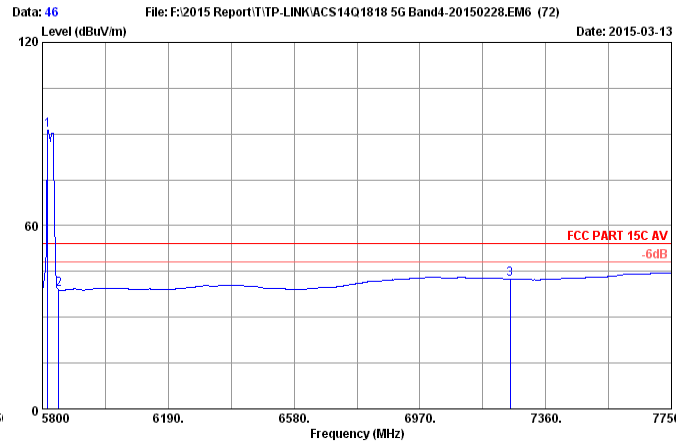
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5819.500	34.13	9.62	35.70	92.82	100.87	74.00	-26.87	Peak
2	5850.000	34.14	9.66	35.70	43.59	51.69	74.00	22.31	Peak
3	7250.000	36.05	10.99	35.45	43.00	54.59	74.00	19.41	Peak

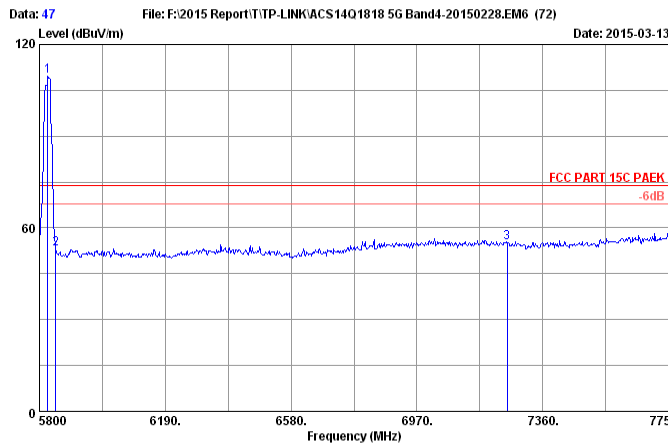
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5815.600	34.13	9.62	35.70	83.29	91.34	54.00	-37.34	Average
2	5850.000	34.14	9.66	35.70	30.93	39.03	54.00	14.97	Average
3	7250.000	36.05	10.99	35.45	30.97	42.56	54.00	11.44	Average

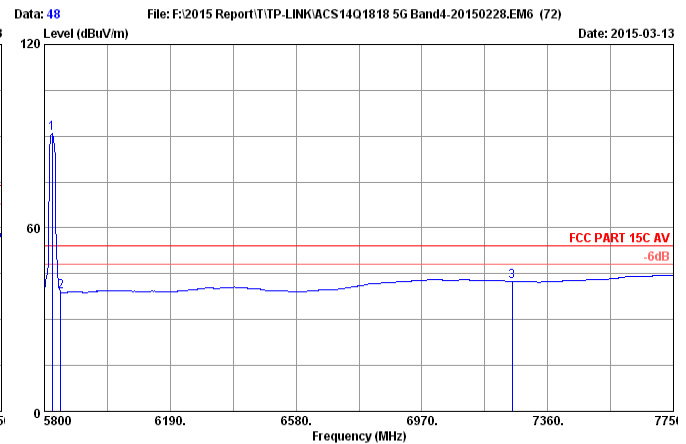
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.350	34.13	9.63	35.70	101.44	109.50	74.00	-35.50	Peak
2	5850.000	34.14	9.66	35.70	44.91	53.01	74.00	20.99	Peak
3	7250.000	36.05	10.99	35.45	43.73	55.32	74.00	18.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

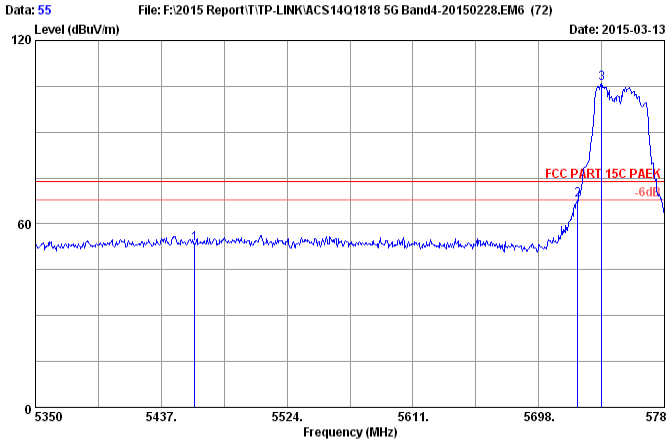


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT20 5825MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.400	34.13	9.63	35.70	82.93	90.99	54.00	-36.99	Average
2	5850.000	34.14	9.66	35.70	31.03	39.13	54.00	14.87	Average
3	7250.000	36.05	10.99	35.45	31.01	42.60	54.00	11.40	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

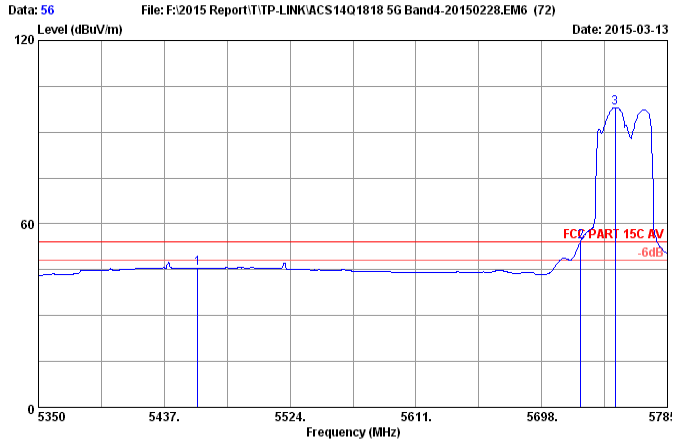
IEEE 802.11nHT40



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5755MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	46.15	53.64	74.00	20.36	Peak
2	5725.000	34.09	9.52	35.70	59.79	67.70	74.00	6.30	Peak
3	5741.500	34.10	9.54	35.70	97.86	105.80	74.00	-31.80	Peak

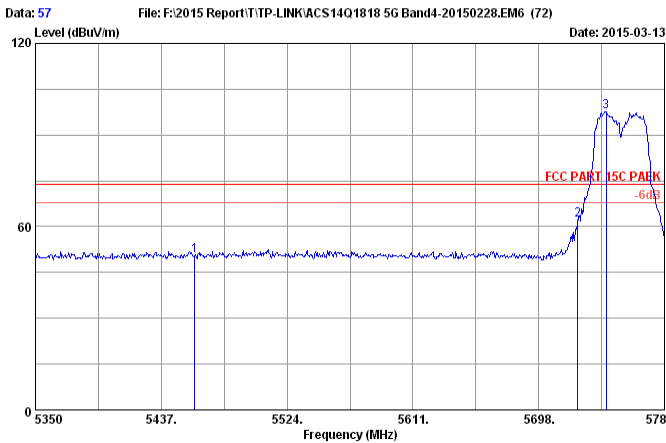
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5755MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	38.05	45.54	54.00	8.46	Average
2	5725.000	34.09	9.52	35.70	46.16	54.07	54.00	-0.07	Average
3	5748.895	34.10	9.55	35.70	90.12	98.07	54.00	-44.07	Average

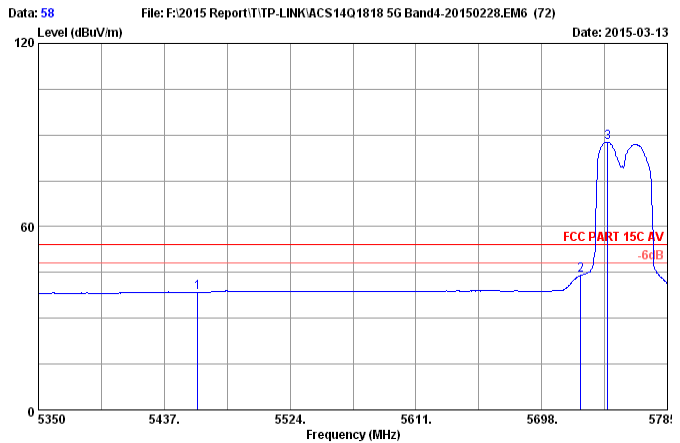
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5755MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	42.90	50.39	74.00	23.61	Peak
2	5725.000	34.09	9.52	35.70	54.25	62.16	74.00	11.84	Peak
3	5744.545	34.10	9.54	35.70	89.68	97.62	74.00	-23.62	Peak

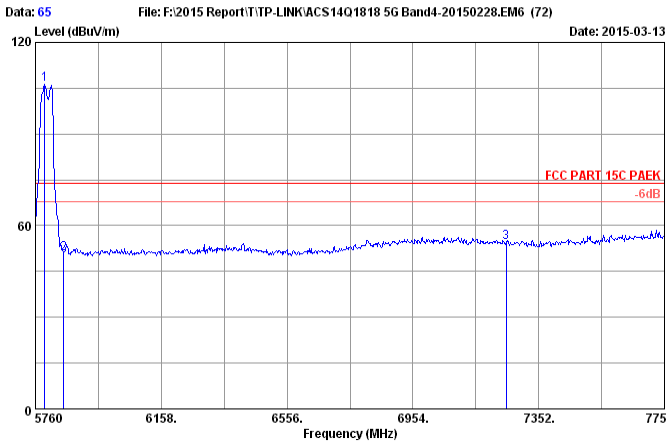
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5755MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.055	33.94	9.25	35.70	31.03	38.52	54.00	15.48	Average
2	5725.000	34.09	9.52	35.70	36.14	44.05	54.00	9.95	Average
3	5743.675	34.10	9.54	35.70	79.79	87.73	54.00	-33.73	Average

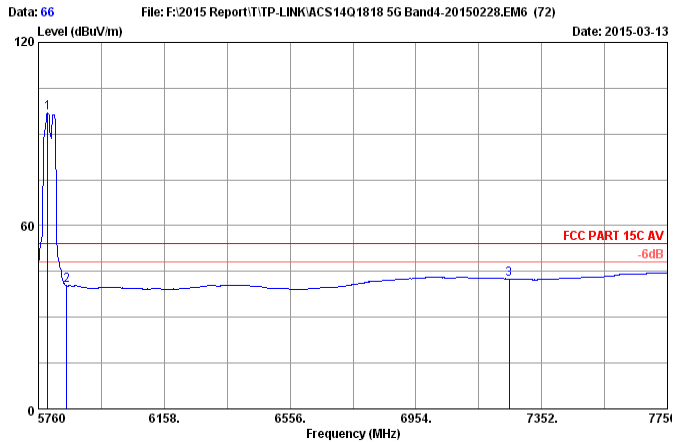
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 65
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5795MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5789.850	34.12	9.59	35.70	98.40	106.41	74.00	-32.41	Peak
2	5850.000	34.14	9.66	35.70	42.85	50.95	74.00	23.05	Peak
3	7250.000	36.05	10.99	35.45	42.99	54.58	74.00	19.42	Peak

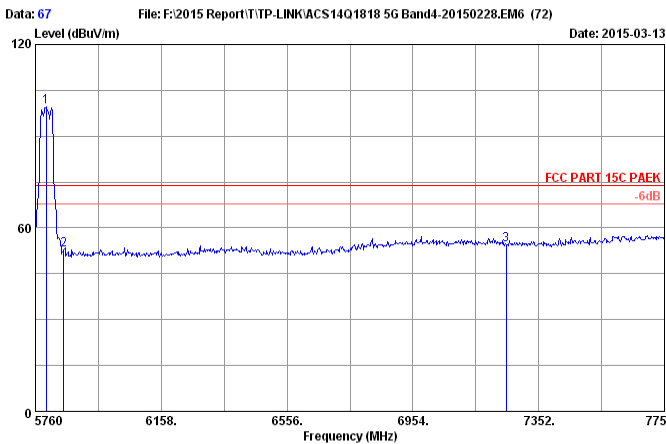
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5795MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5789.850	34.12	9.59	35.70	88.77	96.78	54.00	-42.78	Average
2	5850.000	34.14	9.66	35.70	32.20	40.30	54.00	13.70	Average
3	7250.000	36.05	10.99	35.45	31.01	42.60	54.00	11.40	Average

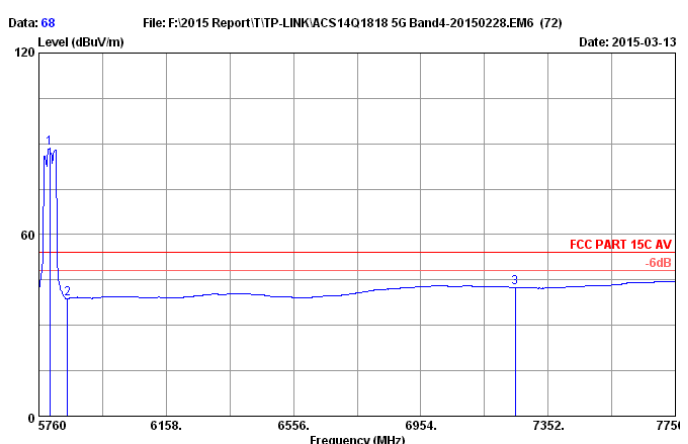
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5795MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5793.830	34.12	9.60	35.70	91.46	99.48	74.00	-25.48	Peak
2	5850.000	34.14	9.66	35.70	44.77	52.87	74.00	21.13	Peak
3	7250.000	36.05	10.99	35.45	43.06	54.65	74.00	19.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Black
 EUT : N600 Wireless Dual Band Gigabit Access
 Point M/N:EAP220
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : 802.11n HT40 5795MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5793.830	34.12	9.60	35.70	80.56	88.58	54.00	-34.58	Average
2	5850.000	34.14	9.66	35.70	30.78	38.88	54.00	15.12	Average
3	7250.000	36.05	10.99	35.45	30.99	42.58	54.00	11.42	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

6. 6dB&26dB Bandwidth Test

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1 Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,14	1 Year

6.2.Limit

6dB Bandwidth should be not less than 500kHz

6.3.Test Procedure

6dB Bandwidth:

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 KHz VBW for signal width below 20MHz and 300KHz RBW ,1MHz VBW for Above 20MHz signal Bandwidth.

26dB Bandwidth:

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 KHz VBW The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

6.4.Test Results

U-NII 5180-5240MHz Band:

EUT: N600 Wireless Dual Band Gigabit Access Point				
M/N: EAP220				
Test date: 2015-03-13		Pressure: 101.4±1.0 kpa		Humidity: 50.1±3.0%
Tested by: Black_Yan		Test site: RF site		Temperature:23.4±0.6℃
6dB bandwidth				
Test Mode	CH	-6dB bandwidth (MHz)		Limit (KHz)
		ANT1	ANT2	
11a	CH36	16.54	16.44	> 500
	CH40	16.50	16.42	> 500
	CH48	16.45	16.37	> 500
11n HT20	CH36	17.68	17.63	> 500
	CH40	17.75	17.81	> 500
	CH48	17.71	17.58	> 500
11n HT40	CH38	36.50	36.50	> 500
	CH46	36.52	36.54	> 500
26dB bandwidth				
Test Mode	CH	-26dB bandwidth (MHz)		Limit (KHz)
		ANT1	ANT2	
11a	CH36	20.85	20.88	N/A
	CH40	21.75	20.50	N/A
	CH48	21.12	19.85	N/A
11n HT20	CH36	21.64	22.01	N/A
	CH40	21.91	22.82	N/A
	CH48	21.79	21.37	N/A
11n HT40	CH38	42.89	42.44	N/A
	CH46	42.81	42.31	N/A
Conclusion : PASS				

U-NII 5745-5825MHz Band:

EUT: N600 Wireless Dual Band Gigabit Access Point				
M/N: EAP220				
Test date: 2015-03-13		Pressure: 101.4±1.0 kpa		Humidity: 50.1±3.0%
Tested by: Black_Yan		Test site: RF site		Temperature:23.4±0.6℃
-6dB bandwidth				
Test Mode	CH	-6dB bandwidth (MHz)		Limit (KHz)
		ANT1	ANT2	
11a	CH149	16.54	16.39	> 500
	CH157	16.55	16.43	> 500
	CH165	16.50	16.42	> 500
11n HT20	CH149	17.76	17.59	> 500
	CH157	17.79	17.64	> 500
	CH165	17.64	17.66	> 500
11n HT40	CH151	36.47	36.51	> 500
	CH159	36.49	36.47	> 500
26dB bandwidth				
Test Mode	CH	-26dB bandwidth (MHz)		Limit (KHz)
		ANT1	ANT2	
11a	CH149	21.85	20.21	N/A
	CH157	20.90	20.51	N/A
	CH165	20.99	20.85	N/A
11n HT20	CH149	22.06	21.55	N/A
	CH157	21.86	22.11	N/A
	CH165	21.97	22.23	N/A
11n HT40	CH151	42.21	41.43	N/A
	CH159	42.59	40.43	N/A
Conclusion : PASS				

U-NII 5180-5240MHz Band:

6dB bandwidth

ANT 1

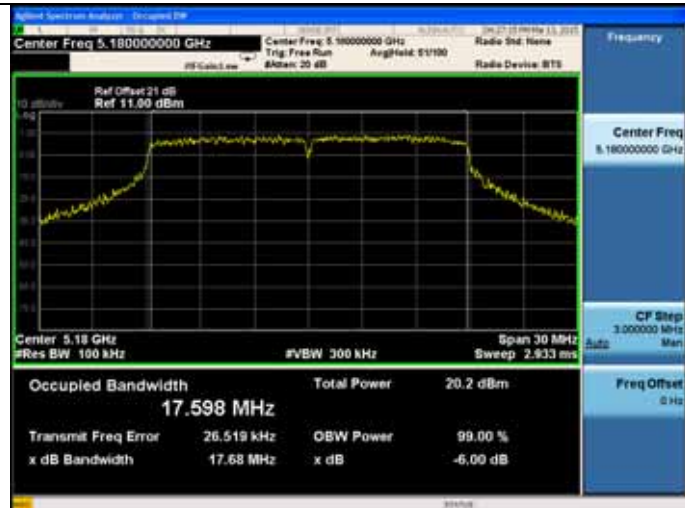
11a

5180MHz

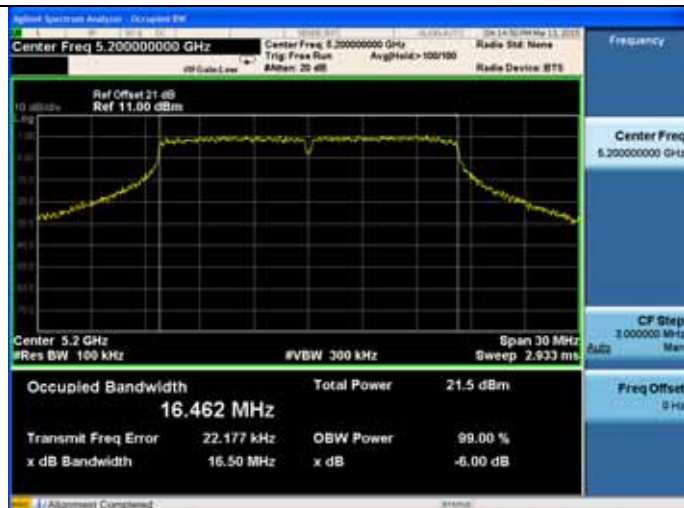


11n HT20

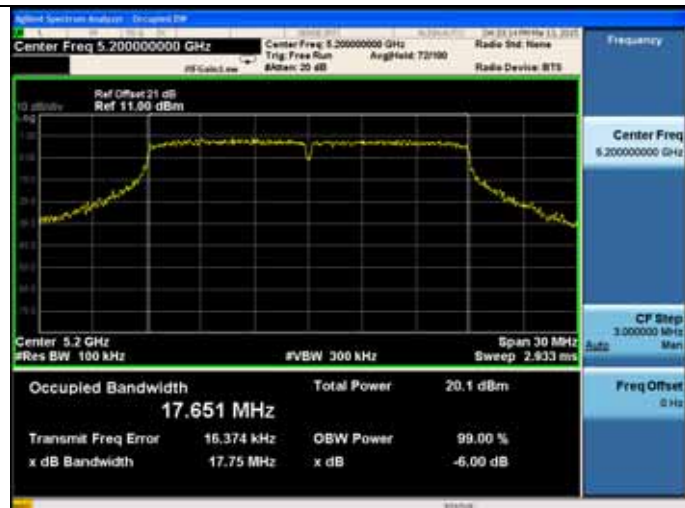
5180MHz



5200MHz



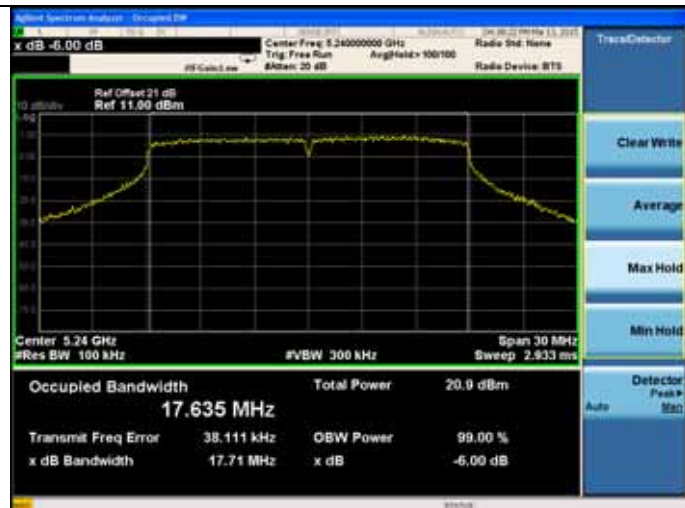
5200MHz



5240MHz



5240MHz



11n HT40

5190MHz



5230MHz



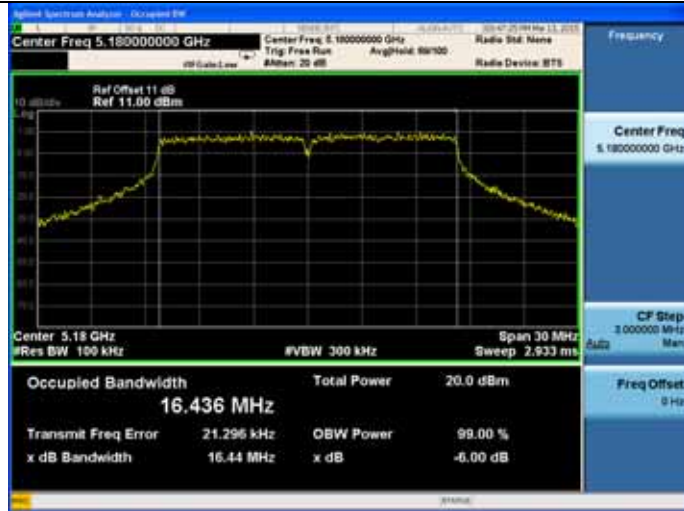
U-NII 5180-5240MHz Band:

6dB bandwidth

ANT 2

11a

5180MHz

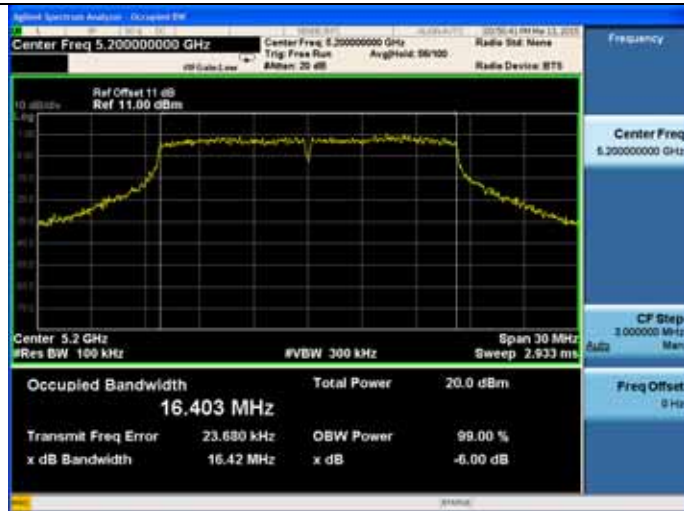


11n HT20

5180MHz



5200MHz



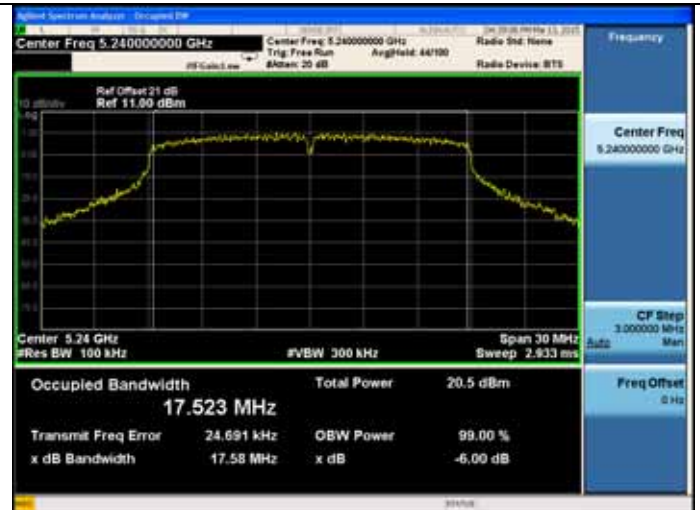
5200MHz



5240MHz



5240MHz



11n HT40 5190MHz	5230MHz
 Center 5.19 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.220 MHz Total Power 21.4 dBm Transmit Freq Error 69.708 kHz x dB Bandwidth 36.50 MHz	 Center Freq 5.230000000 GHz Center Freq 5.230000000 GHz Trig: Free Run AvgHold: 50/100 Radio Std: None Radio Device: BTS Ref Offset 21 dB Ref 11.00 dBm Center 5.23 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.217 MHz Total Power 21.6 dBm Transmit Freq Error 83.168 kHz x dB Bandwidth 36.54 MHz
	5240MHz

U-NII 5180-5240MHz Band:

26dB bandwidth

ANT 1

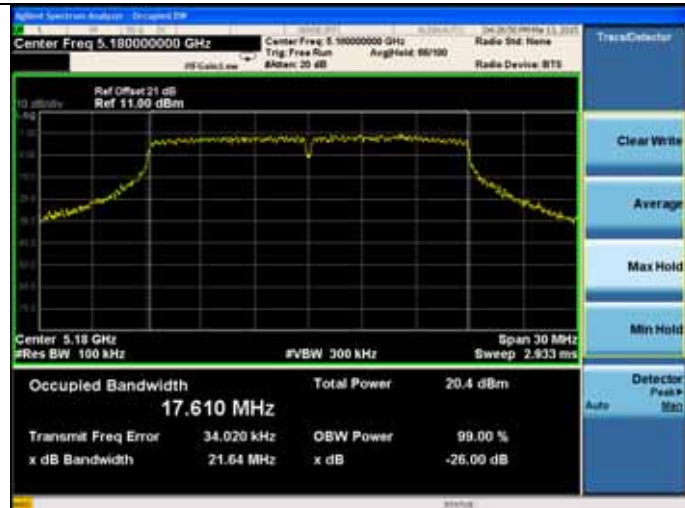
11a

5180MHz



11n HT20

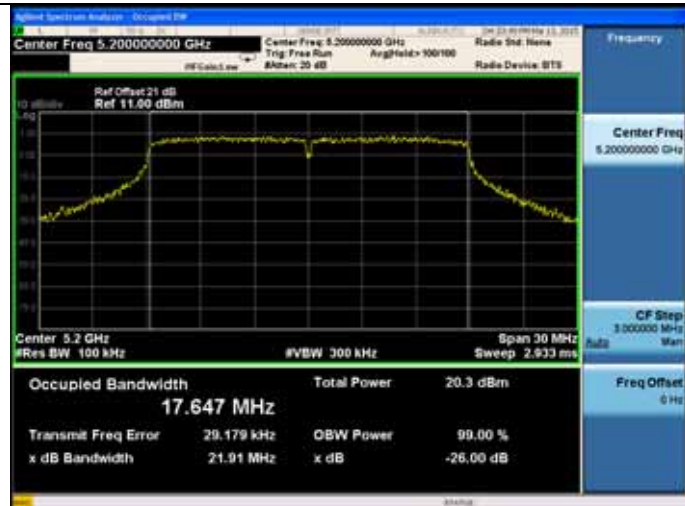
5180MHz



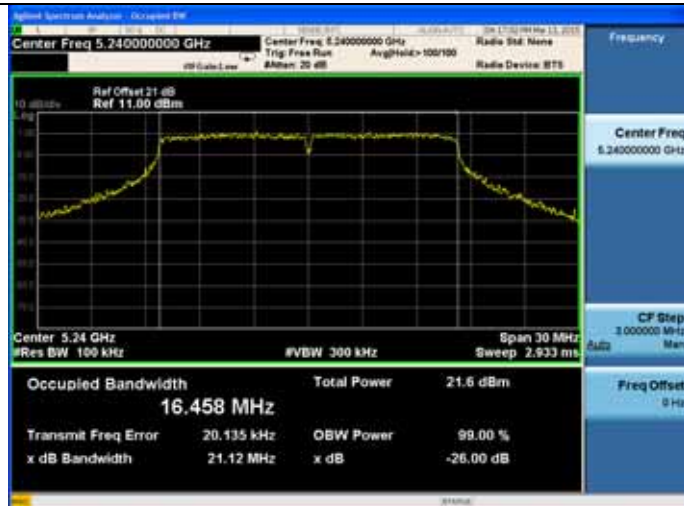
5200MHz



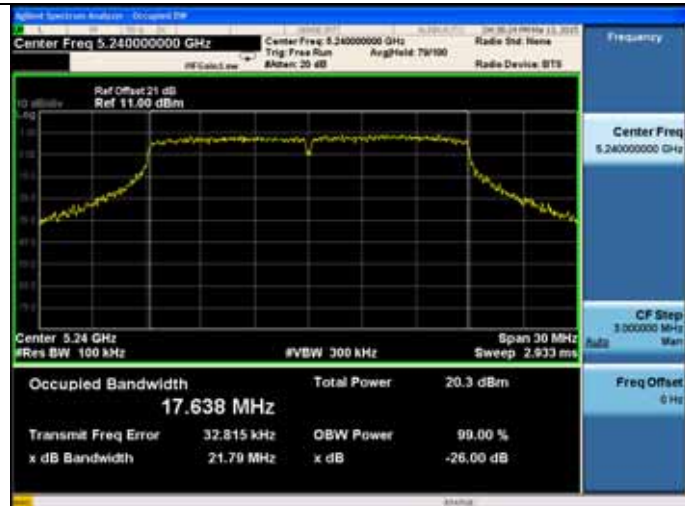
5200MHz



5240MHz

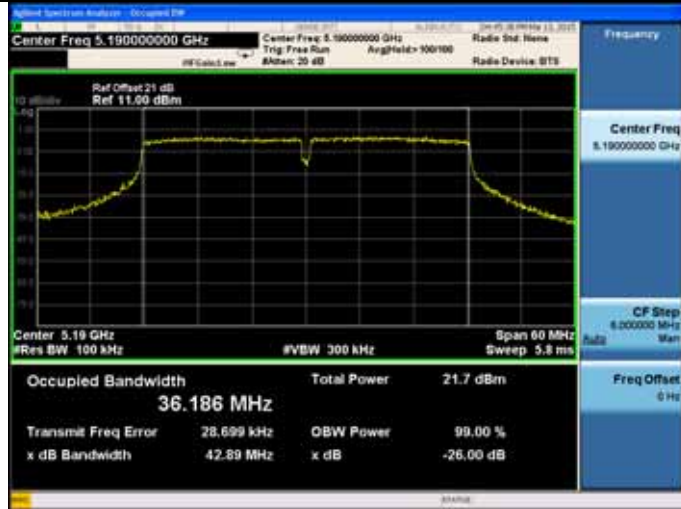


5240MHz



11n HT40

5190MHz



5230MHz



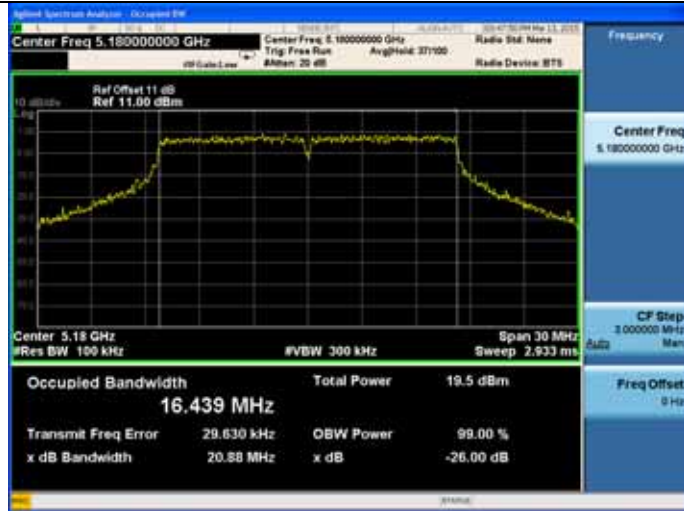
U-NII 5180-5240MHz Band:

26dB bandwidth

ANT 2

11a

5180MHz

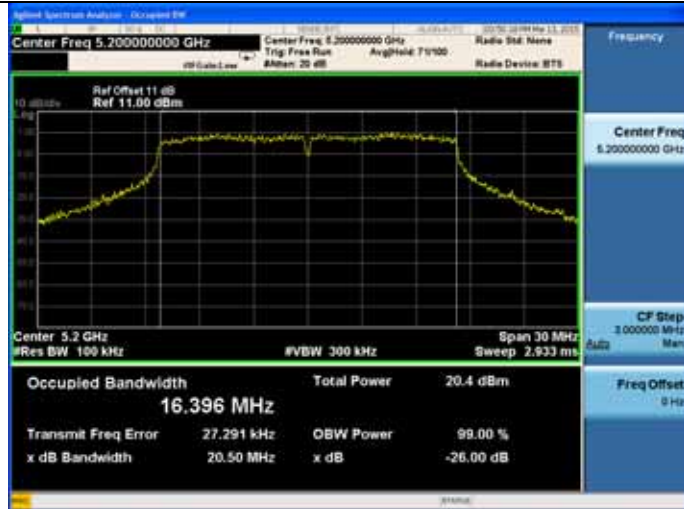


11n HT20

5180MHz



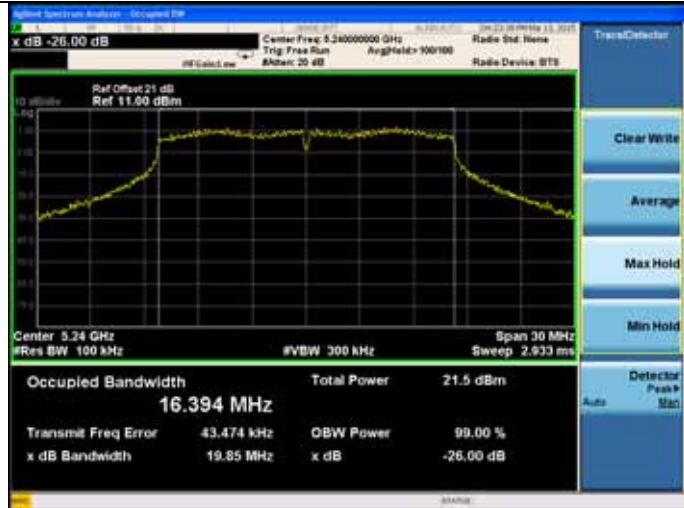
5200MHz



5200MHz



5240MHz

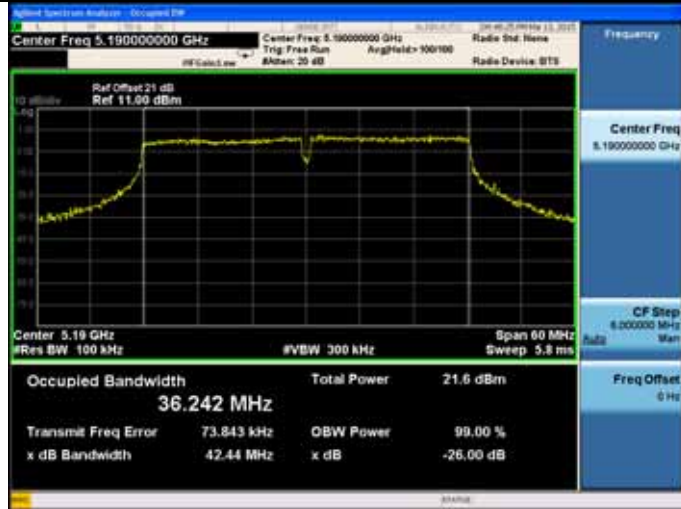


5240MHz

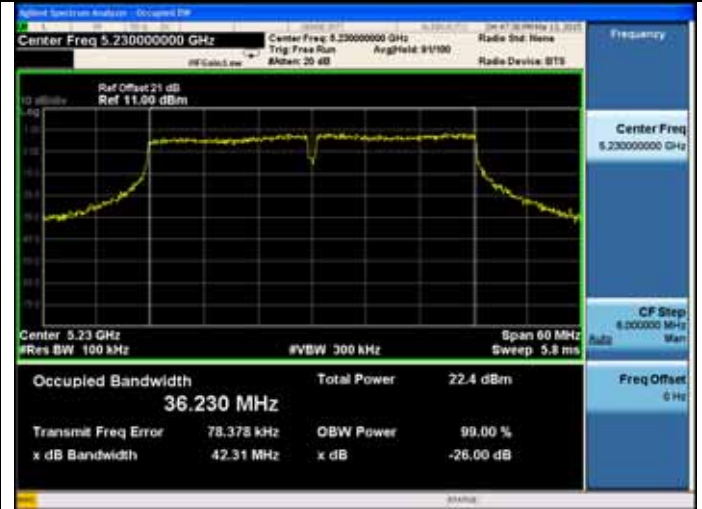


11n HT40

5190MHz



5230MHz



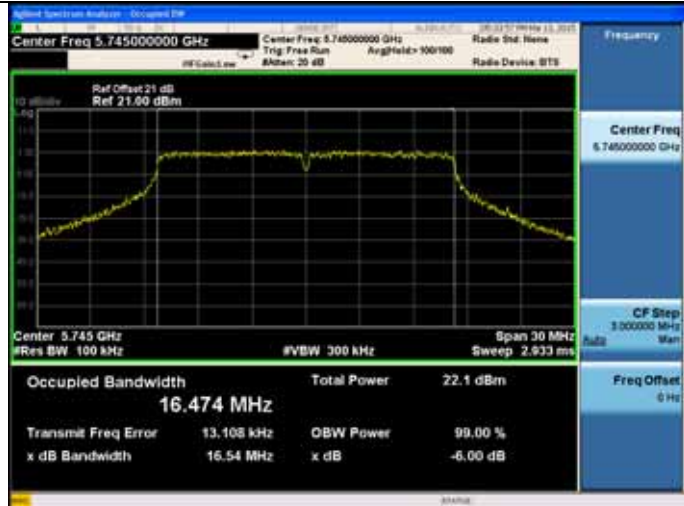
U-NII 5745-5825MHz Band:

6dB bandwidth

ANT 1

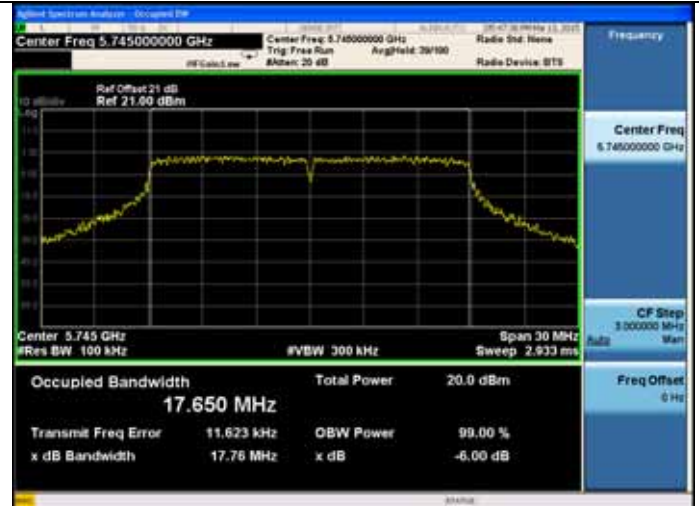
11a

5745MHz



11n HT20

5745MHz



5785MHz



5785MHz



5825MHz

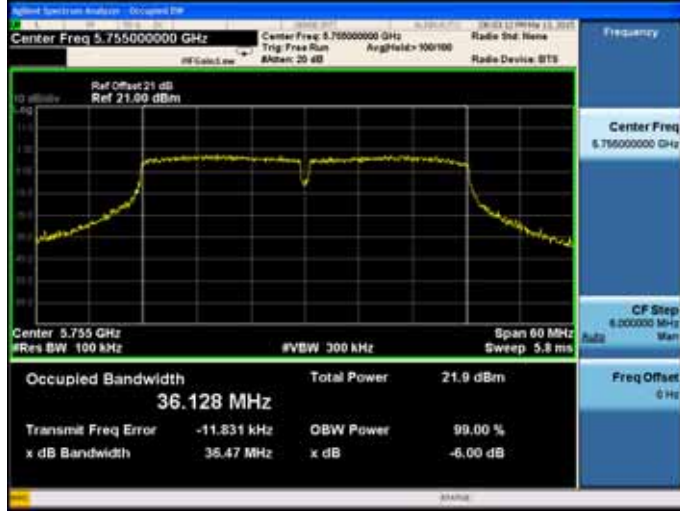


5825MHz

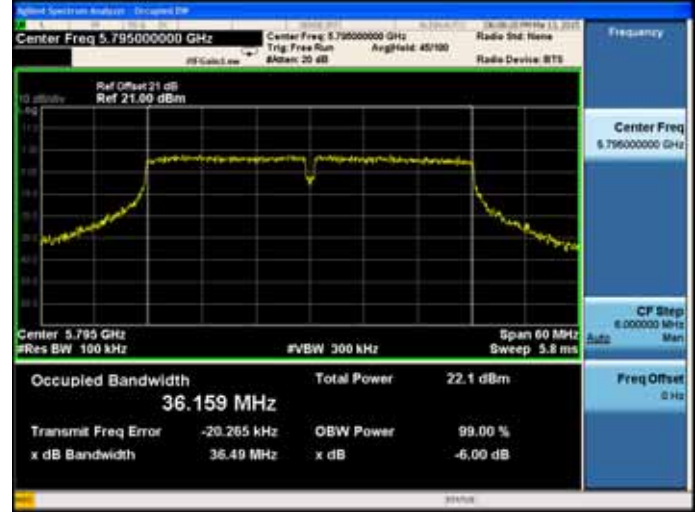


11n HT40

5755MHz



5795MHz



U-NII 5745-5825MHz Band:

6dB bandwidth

ANT 2

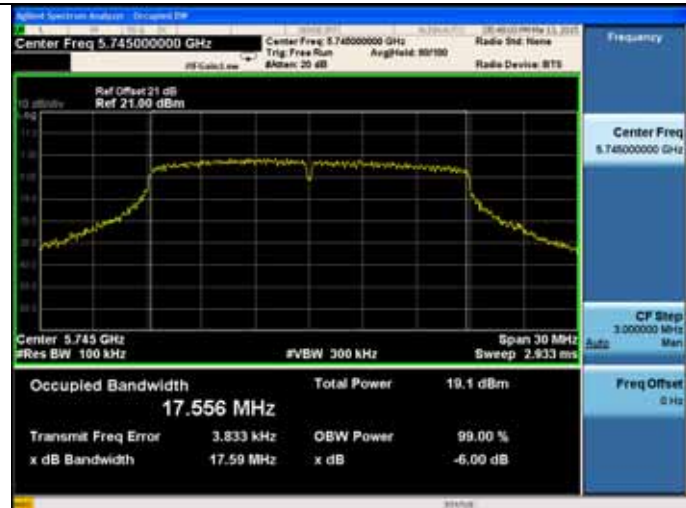
11a

5745MHz



11n HT20

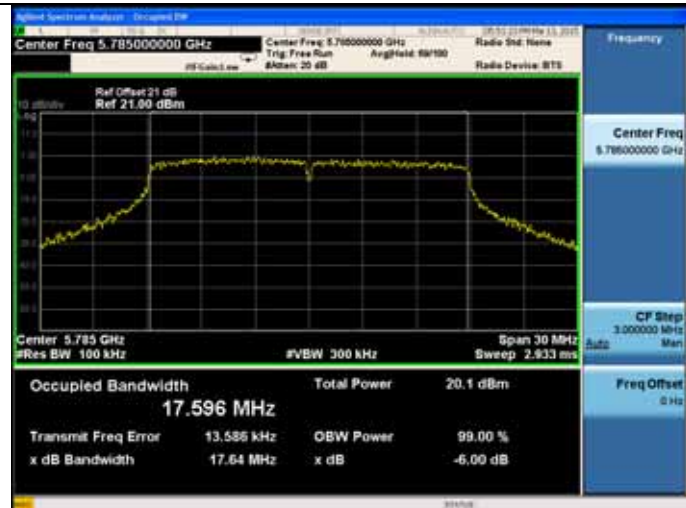
5745MHz



5785MHz



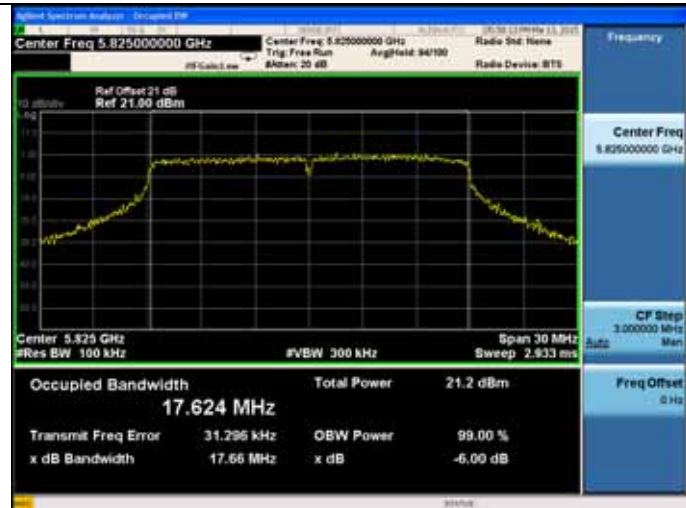
5785MHz



5825MHz

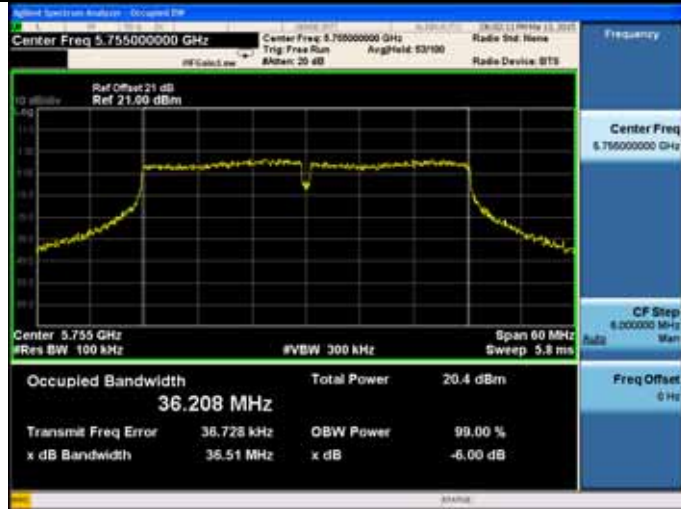


5825MHz

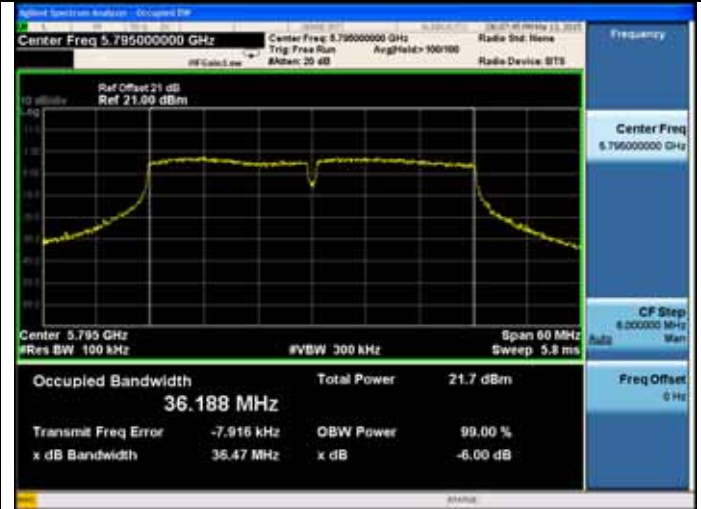


11n HT40

5755MHz



5795MHz



U-NII 5745-5825MHz Band:

26dB bandwidth

ANT 1

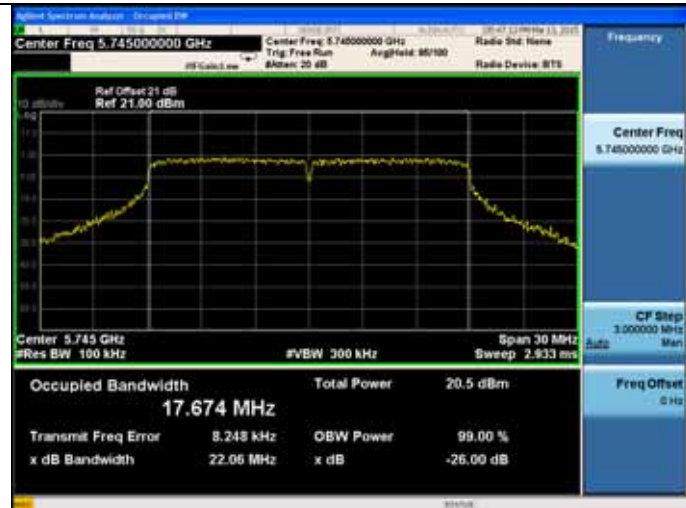
11a

5745MHz

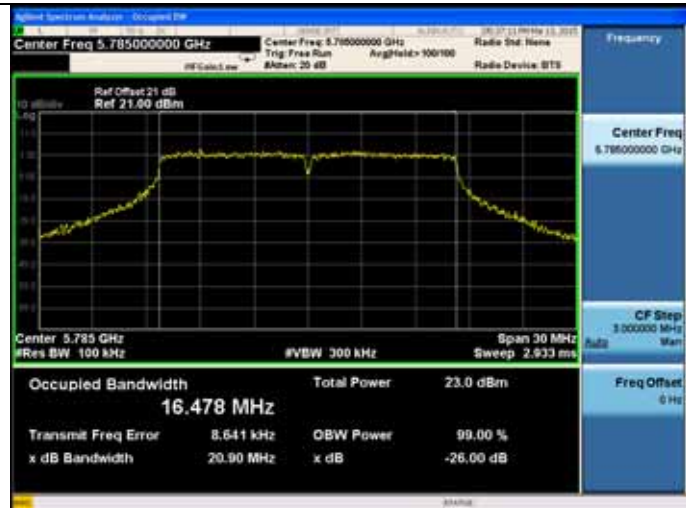


11n HT20

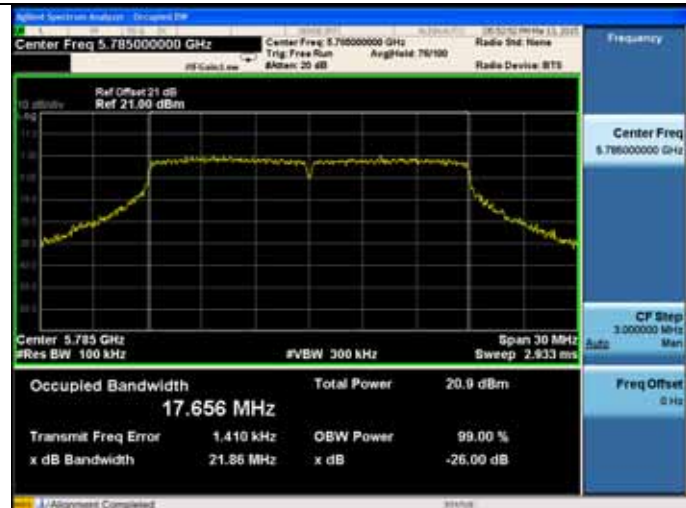
5745MHz



5785MHz



5785MHz



5825MHz

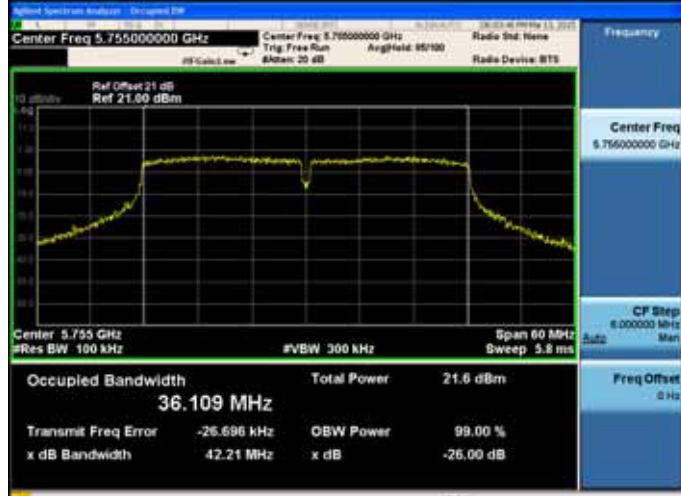


5825MHz



11n HT40

5755MHz



5795MHz



U-NII 5745-5825MHz Band:

26dB bandwidth

ANT 2

11a

5745MHz



11n HT20

5745MHz



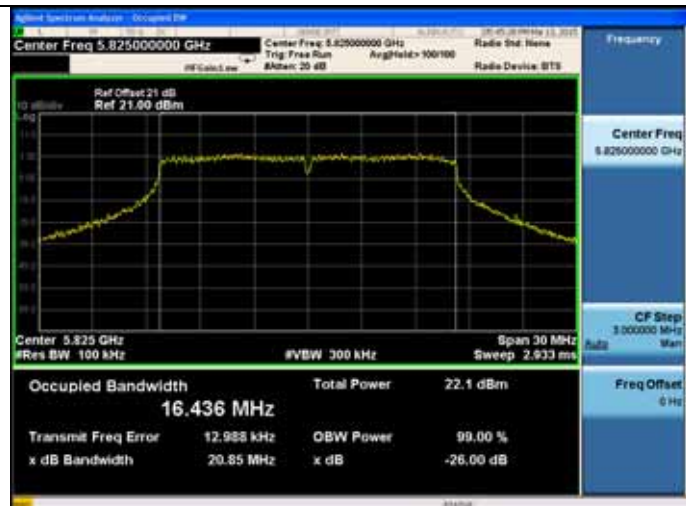
5785MHz



5785MHz



5825MHz

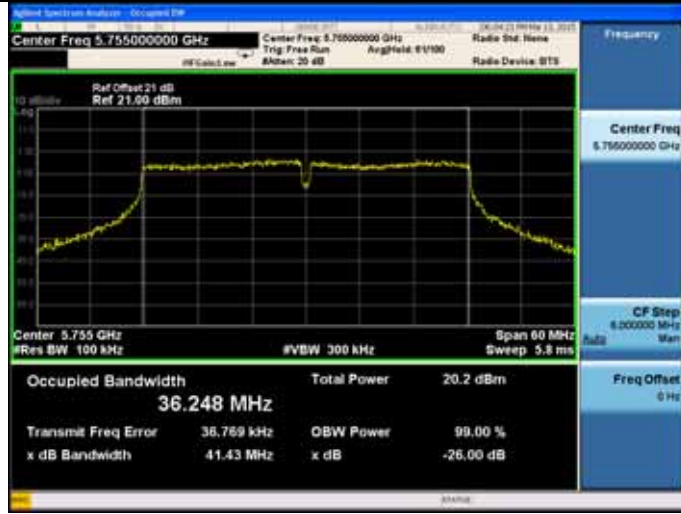


5825MHz

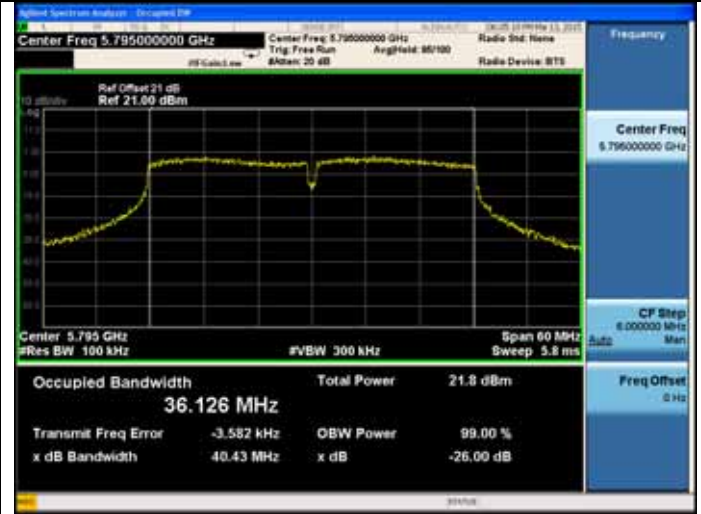


11n HT40

5755MHz



5795MHz



7. OUTPUT POWER TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1 Year
2.	Power meter	Anritsu	ML2487A	6K00002472	April 28,14	1 Year
3.	Power sensor	Anritsu	MA2491A	0033005	April 28,14	1 Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	April 28,14	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	April 28,14	1 Year

7.2. Limit

For an access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 250mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

7.3. Test Procedure

1. Connected the EUT's antenna port to measure device by 26dB attenuator.
2. For IEEE 802.11a and IEEE802.11n HT20 and 802.11ac VHT20 mode, use power meter which's bandwidth is 20MHz and above the bandwidth of signal to measure out each test mode's output power.
3. For IEEE802.11n HT40, 802.11ac VHT40 and 802.11ac VHT80 mode, since the signal's bandwidth is nearly 40MHz which is above 20MHz bandwidth of power sensor ML2491A. So use the test method described in KBD789033 clause E Method SA-1
 - 1) Connect the antenna port to the spectrum analyzer and Set span of the spectrum to encompass the entire emission bandwidth (EBW) of the signal.
 - 2) Set the RBW=1MHz and VBW =3MHz
 - 3) Number of points in sweep ≥ 2 Span / RBW
 - 4) Detector = RMS
 - 5) Sweep time = auto couple
 - 6) Allow the sweep to "free run" and set the Trace average at least 100 traces in power averaging (i.e., RMS) mode.
 - 7) Compute power by integrating the spectrum across the 26 dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.4. Test Results

U-NII 5180-5240MHz Band:

EUT: N600 Wireless Dual Band Gigabit Access Point					
M/N: EAP220					
Test date: 2015-03-13		Pressure: 101.4±1.0 kpa		Humidity: 50.3±3.0%	
Tested by: Black_Yan		Test site: RF site		Temperature: 23.4±0.6 °C	
Test Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)
		ANT1	ANT2	Total	
11a	5180	15.53	15.40	18.48	30
	5200	16.04	16.31	19.19	30
	5240	16.67	16.75	19.72	30
11n HT20	5180	15.54	16.02	18.80	30
	5200	16.12	16.65	19.40	30
	5240	16.56	16.68	19.63	30
11n HT40	5190	16.92	16.52	19.73	30
	5230	17.48	17.36	20.43	30
Conclusion: PASS					

Note:

1. 11a use CDD Mode, for power measurement, the array Gain=0dB, the directional gain=4dBi+0dB=4dBi < 6dBi
2. 11n use MIMO mode, the directional gain=4dBi+10log2=7dBi > 6dBi

The Power limit=30dBm-(7dBi -6dBi)dB=29dBm

U-NII 5745-5825MHz Band:

EUT: N600 Wireless Dual Band Gigabit Access Point					
M/N: EAP220					
Test date: 2015-03-13		Pressure: 101.4±1.0 kpa		Humidity: 50.3±3.0%	
Tested by: Black_Yan		Test site: RF site		Temperature:23.4±0.6 °C	
Test Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)
		ANT1	ANT2	Total	
11a	5745	17.84	16.56	20.26	30
	5785	18.08	16.68	20.45	30
	5825	17.95	17.24	20.62	30
11n HT20	5745	16.14	15.52	18.85	30
	5785	16.38	15.87	19.14	30
	5825	16.73	16.76	19.76	30
11n HT40	5755	17.06	16.56	19.83	30
	5795	17.18	16.87	20.04	30
Conclusion: PASS					

Note:

1. 11a use CDD Mode, for power measurement, the array Gain=0dB, the directional gain=4dBi+0dB=4dBi < 6dBi
2. 11n use MIMO mode, the directional gain=4dBi+10log2=7dBi > 6dBi

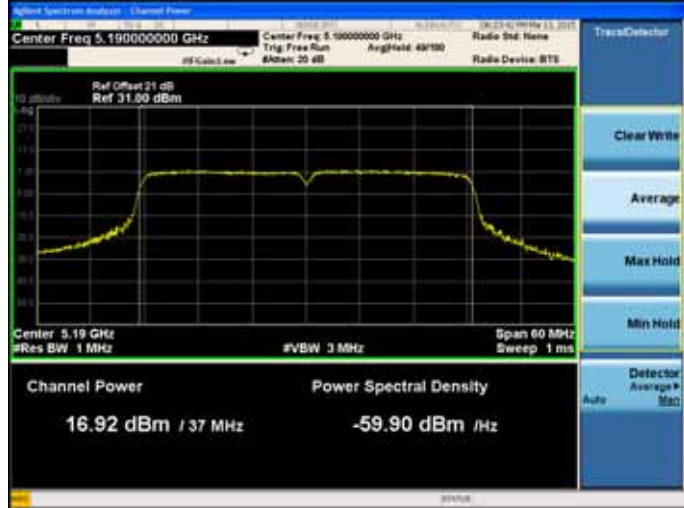
The Power limit=30dBm-(7dBi -6dBi)dB=29dBm

U-NII 5180-5240MHz Band:

ANT 1

11n HT40

5190MHz



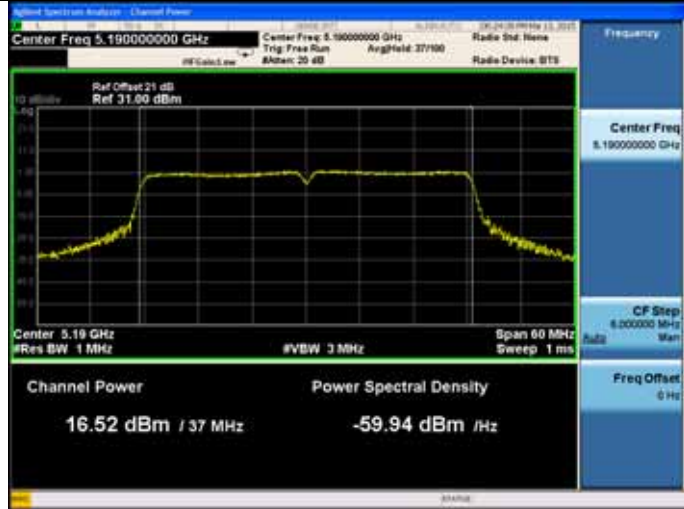
5230MHz



ANT 2

11n HT40

5190MHz



5230MHz



U-NII 5745-5825MHz Band:

ANT 1

11n HT40

5755MHz



5795MHz



ANT 2

11n HT40

5755MHz



5795MHz



8. SPECTRAL DENSITY TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct. 29,14	1Year
3.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,14	1 Year

8.2. Limit

For an access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

8.3. Test Procedure

For the Band 5.15-5.25GHz:

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW; Detector: RMS mode.

For the band 5.725-5.85 GHz:

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW,RMS Detector.

So use the test method described in KDB789033 clause E

- 1) Set the RBW=100kHz and VBW =3MHz
- 2) Number of points in sweep ≥ 2 Span / RBW.(This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
- 3) Sweep time = auto
- 4) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- 5) Use the “peak search” function of spectrum analyzer find the max value, then add 10log (500kHz/RBW) to the measured result.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.4. Test Results

EUT: N600 Wiless Dual Band Gigabit Access Point					
M/N: EAP220					
Test date: 2015-03-13		Pressure: 101.4±1.0 kpa		Humidity:50.5±3.0%	
Tested by: Black_Yan		Test site: RF site		Temperature:23.5±0.6 °C	
U-NII 5180-5240MHz Band:					
Test Mode	Frequency (MHz)	Power density (dBm/MHz)			Limit (dBm/MHz)
		ANT1	ANT2	Total	
11a	5180	3.622	2.687	6.19	10
	5200	3.726	2.949	6.37	10
	5240	4.051	3.237	6.67	10
11n HT20	5180	1.403	0.775	4.11	10
	5200	2.335	1.747	5.06	10
	5240	2.553	2.306	5.44	10
11n HT40	5190	-0.028	-1.29	2.40	10
	5230	-0.582	-0.991	2.23	10
U-NII 5745-5825MHz Band:					
Test Mode	Frequency (MHz)	Power density (dBm/MHz)			Limit (dBm/MHz)
		ANT1	ANT2	Total	
11a	5745	3.622	2.687	6.19	29
	5785	3.726	2.949	6.37	29
	5825	4.051	3.237	6.67	29
11n HT20	5745	1.403	0.775	4.11	29
	5785	2.335	1.747	5.06	29
	5825	2.553	2.306	5.44	29
11n HT40	5755	-0.028	-1.29	2.40	29
	5795	-0.582	-0.991	2.23	29
Conclusion: PASS					

Note:

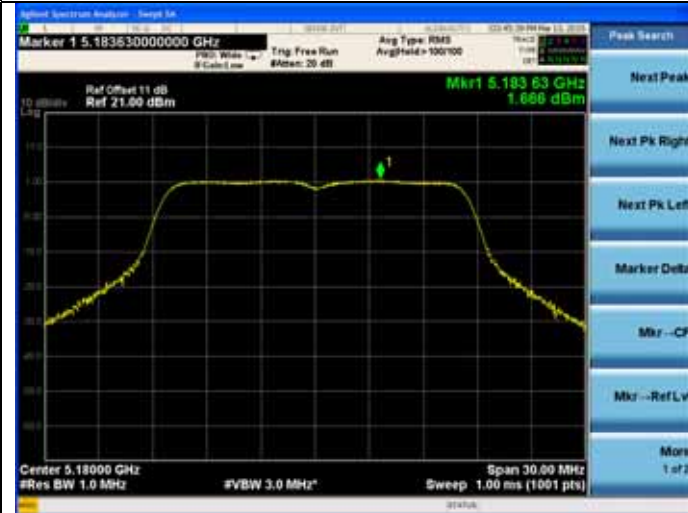
- 11a use CDD Mode, for power density measurement, the directional gain=4dBi+10log2=7dBi > 6dBi
The limit of power density should be (11-1) dBm/MHz=10dBm/MHz
- 11n use MIMO mode, the directional gain=4dBi+10log2=7dBi
The limit should be reduced by 1dBm/MHz

U-NII 5180-5240MHz Band:

ANT 1

11a

5180MHz

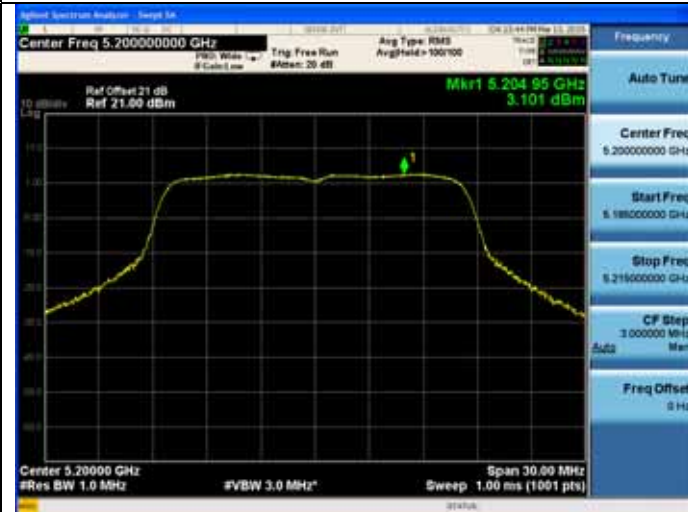


11n HT20

5180MHz



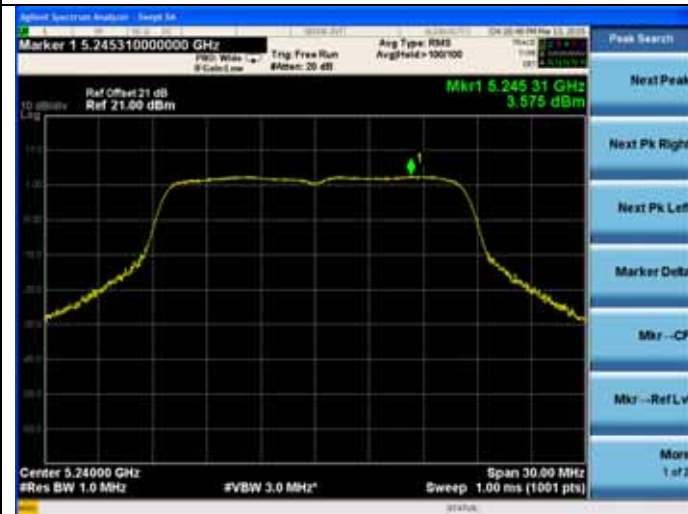
5200MHz



5200MHz

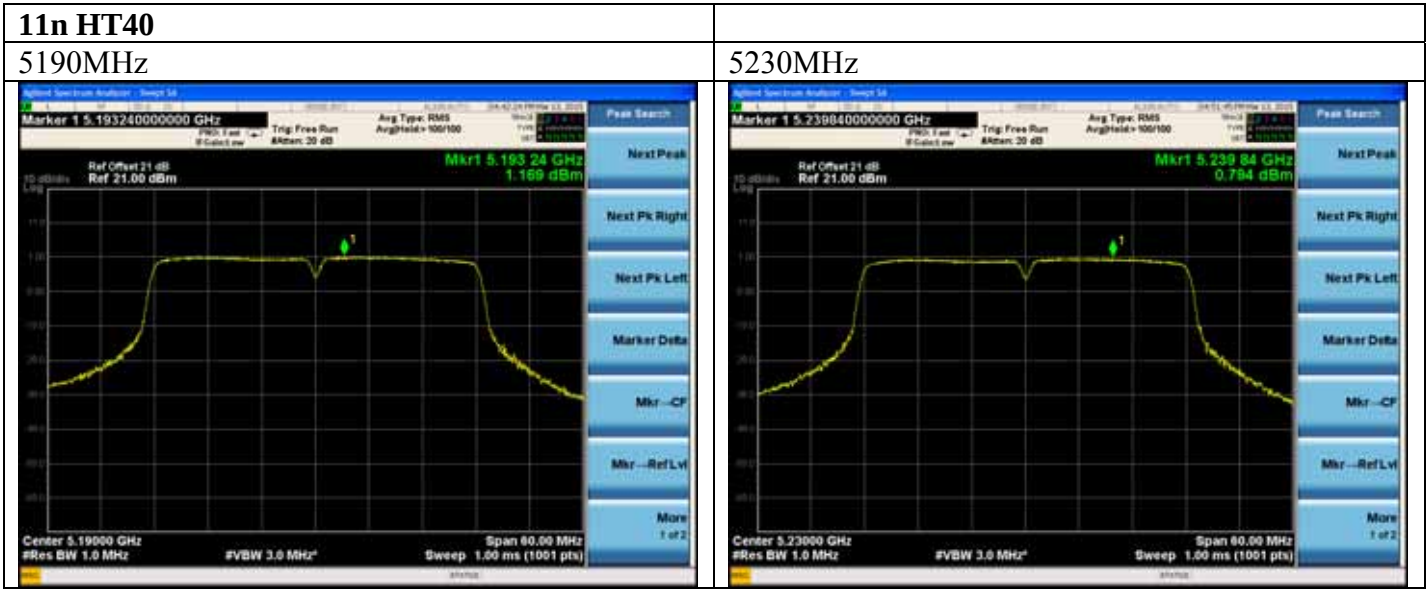


5240MHz



5240MHz



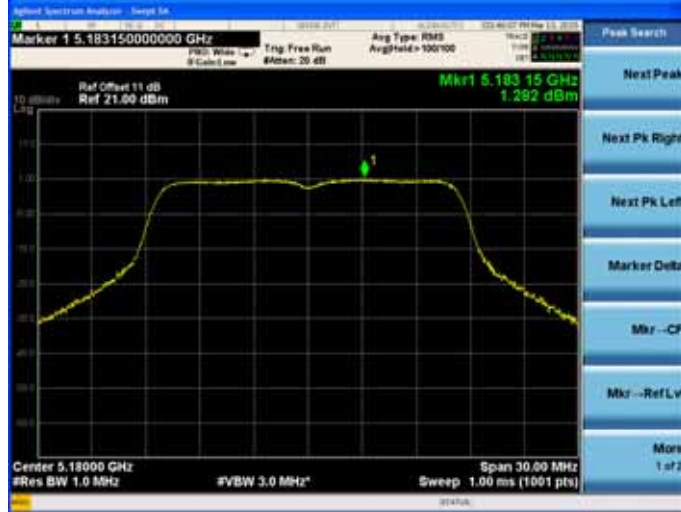


U-NII 5180-5240MHz Band:

ANT 2

11a

5180MHz



11n HT20

5180MHz



5200MHz



5200MHz



5240MHz

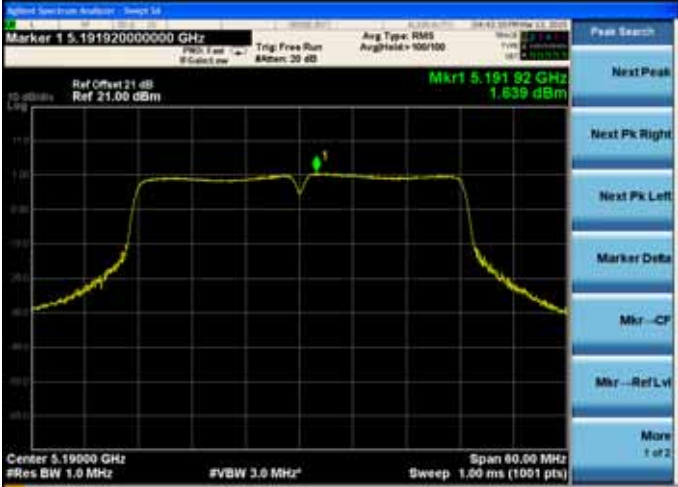


5240MHz

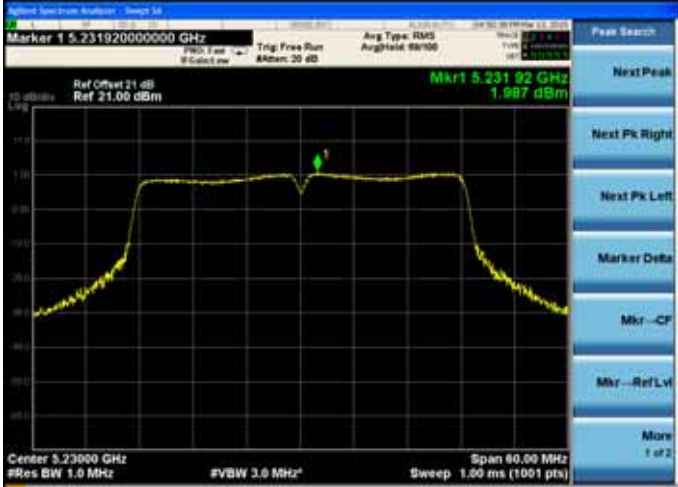


11n HT40

5190MHz



5230MHz

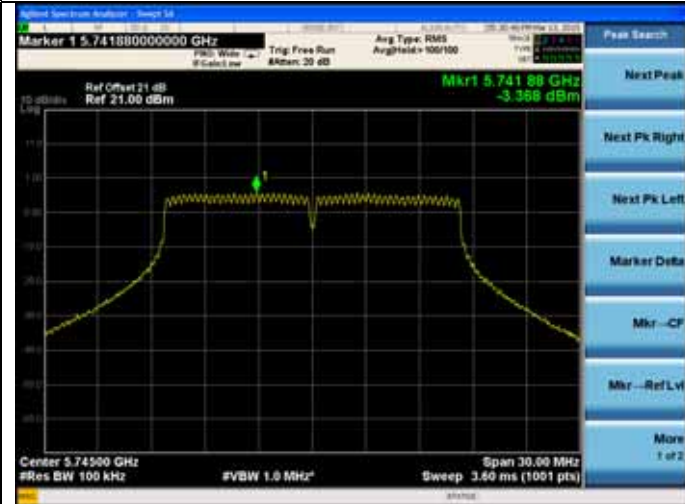


U-NII 5745-5825MHz Band:

ANT 1

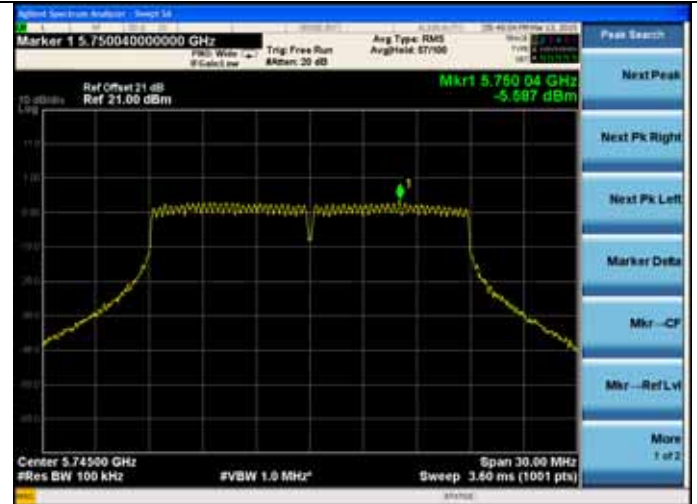
11a

5745MHz

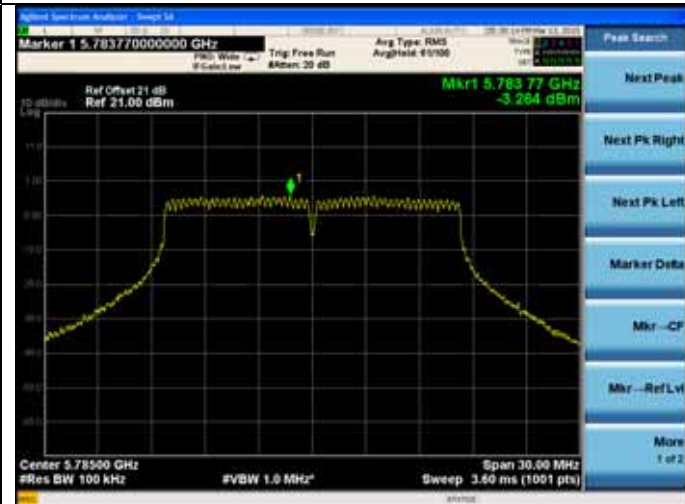


11n HT20

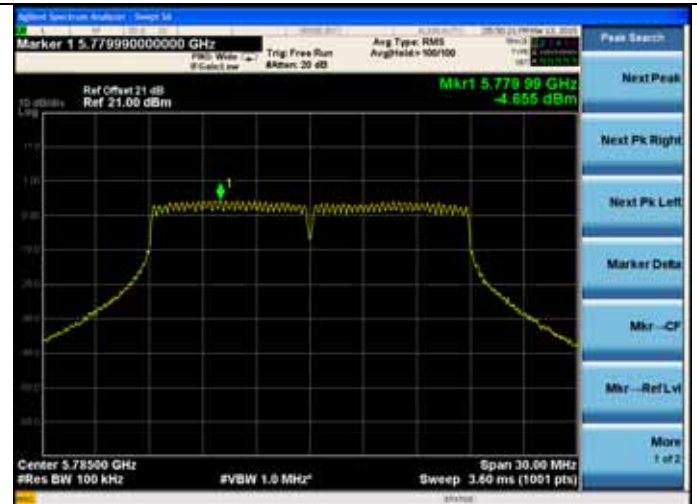
5745MHz



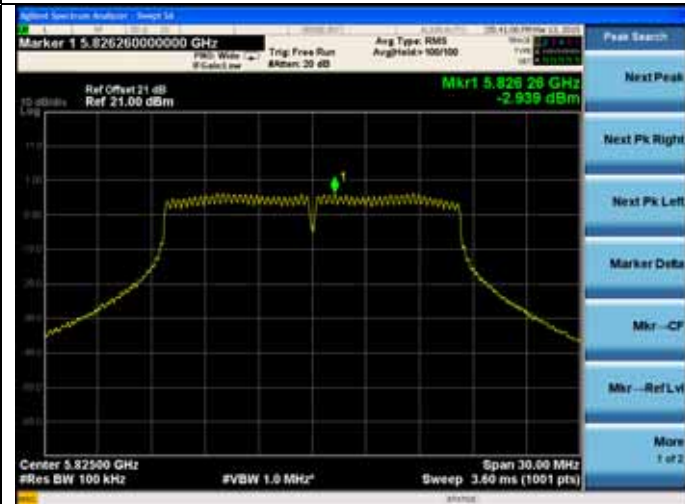
5785MHz



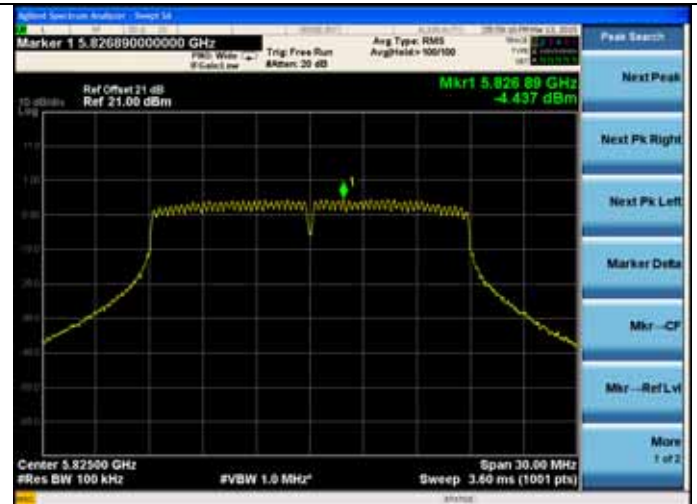
5785MHz

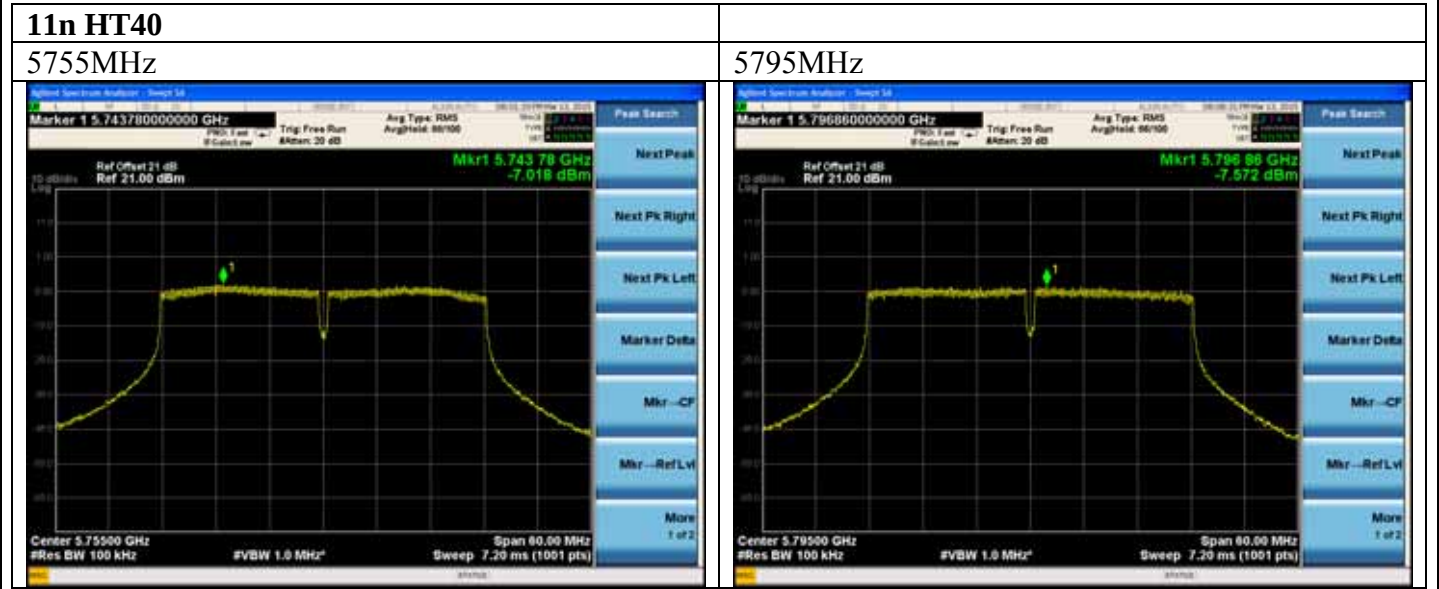


5825MHz



5825MHz





U-NII 5745-5825MHz Band:

ANT 2

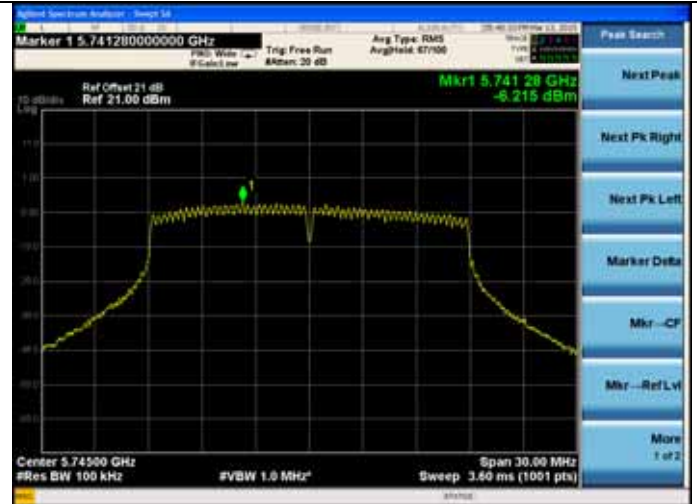
11a

5745MHz

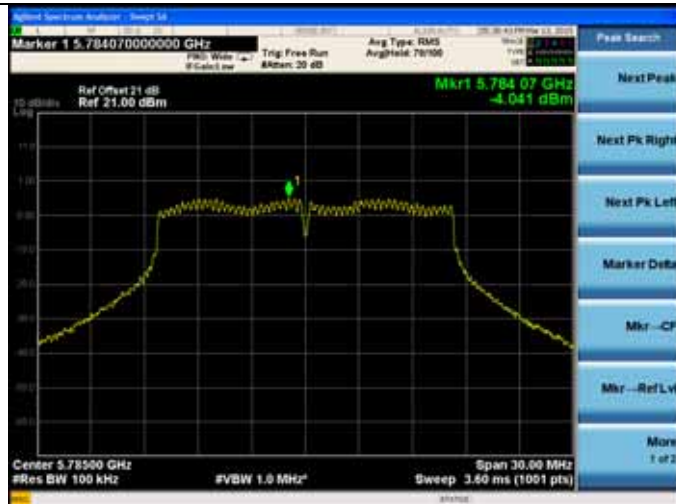


11n HT20

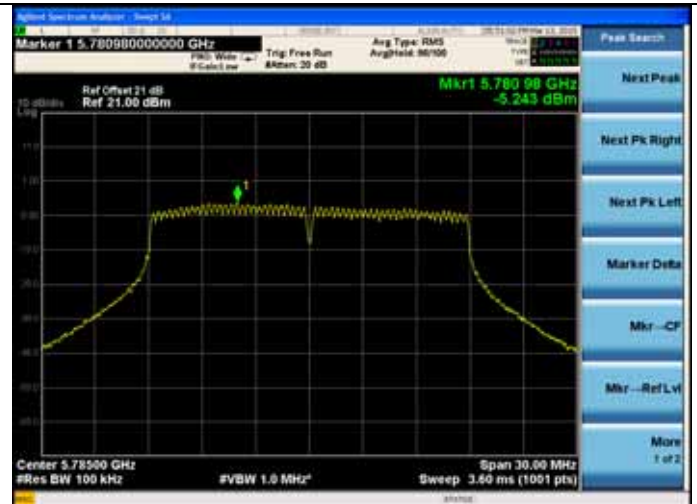
5745MHz



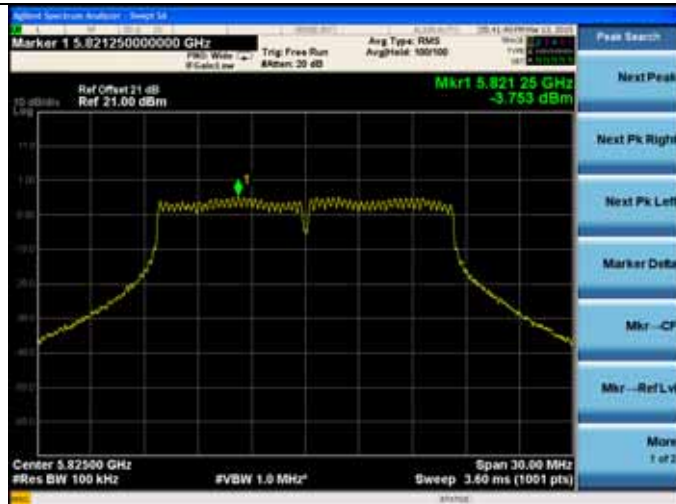
5785MHz



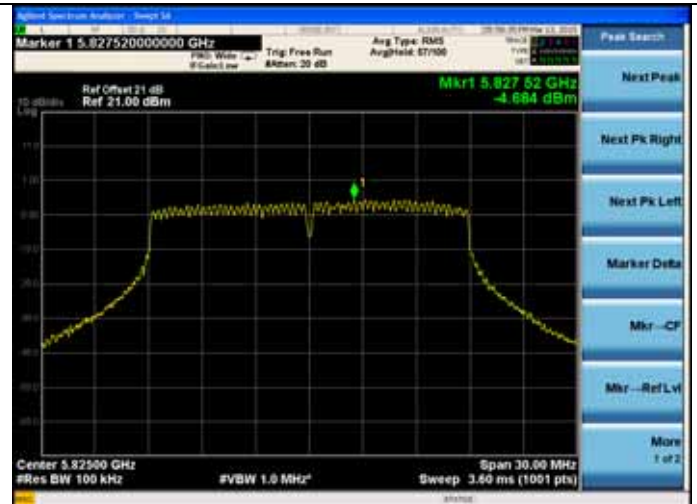
5785MHz

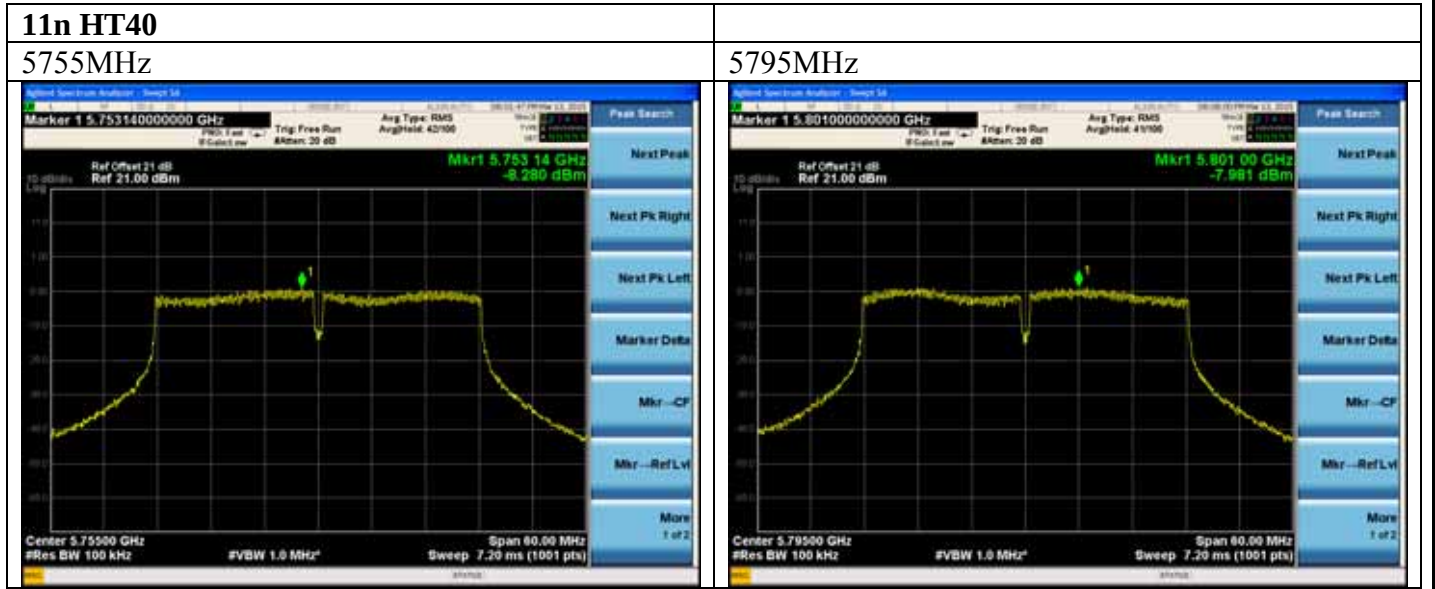


5825MHz



5825MHz





9. MPE ESTIMATION

9.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Note: F= Frequency in MHz

9.2. Estimation Result

EUT: N600 Wireless Dual Band Gigabit Access Point						
M/N: EAP220						
Test date: 2015-03-15		Pressure: 101.2±1.0 kpa			Humidity: 50.5±3.0%	
Tested by: Black_Yan		Test site: RF site			Temperature:23.4±0.6 °C	
U-NII 5180-5240MHz Band						
Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5180	18.48	70.47	4	2.51	0.0352
	5200	19.19	82.99	4	2.51	0.0415
	5240	19.72	93.76	4	2.51	0.0469
11n HT20	5180	18.80	75.86	4	2.51	0.0379
	5200	19.40	87.10	4	2.51	0.0435
	5240	19.63	91.83	4	2.51	0.0459
11n HT40	5190	19.73	93.97	4	2.51	0.0470
	5230	20.43	110.41	4	2.51	0.0552
U-NII 5745-5825MHz Band						
Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	20.26	106.17	4	2.51	0.0531
	5785	20.45	110.92	4	2.51	0.0555
	5825	20.62	115.35	4	2.51	0.0577
11n HT20	5745	18.85	76.74	4	2.51	0.0384
	5785	19.14	82.04	4	2.51	0.0410
	5825	19.76	94.62	4	2.51	0.0473
11n HT40	5755	19.83	96.16	4	2.51	0.0481
	5795	20.04	100.93	4	2.51	0.0505

$$MPE = \frac{PG}{4\pi R^2} \quad (R=20cm)$$

10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are dipole antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 4dBi.

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]