



FCC REPORT (WIFI)

Applicant: Kintech Co., Ltd

Address of Applicant: Bldg.22,Chentian Industrial Zone, Baomin 2nd Road, Xixiang, Bao'an, District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: tablet pc
PC7028,PC7028ME,PC7028B,PC70XX(xx represents 00~99), PC70XXME(xx represents 00~99),

Model No.: PC70XXB(xx represents 00~99),KW-PC7028L, KW-PC7028,KW-PC70XXL(xx represents 00~99), KW-PC70XX(xx represents 00~99)

Trade mark: Titan/Kinwei

FCC ID: BRCPC7028

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 30 Sep., 2013

Date of Test: 08 Oct., to 29 Oct., 2013

Date of report issued: 29 Oct., 2013

Test Result : PASS *

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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* In the configuration tested, the EUT complied with the standards specified above.

2 Version

Version No.	Date	Description
00	29 Oct., 2013	Original

Prepared by:

Sera

Report Clerk

Date:

29 Oct., 2013

Reviewed by:

Vincent Chen

Project Engineer

Date:

29 Oct., 2013

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	Kintech Co., Ltd
Address of Applicant:	Bldg.22,Chentian Industrial Zone, Baomin 2nd Road, Xixiang, Bao'an, District, Shenzhen, china
Manufacturer/Factory:	Kintech Co., Ltd
Address of Manufacturer/Factory:	Bldg.22,Chentian Industrial Zone, Baomin 2nd Road, Xixiang, Bao'an, District, Shenzhen, china

5.2 General Description of E.U.T.

Product Name:	tablet pc
Model No.:	PC7028,PC7028ME,PC7028B,PC70XX(xx represents 00 ~ 99), PC70XXME(xx represents 00 ~ 99),PC70XXB(xx represents 00 ~ 99),KW-PC7028L,KW-PC7028,KW-PC70XXL(xx represents 00 ~ 99), KW-PC70XX(xx represents 00~99)
Trade mark:	Titan/Kinwei
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1 dBi
AC adapter :	Input:100-240V AC,50/60Hz 0.25A Output:5.0V DC MAX1500mA Model : LG288-0502000UL
Power supply:	Rechargeable Li-ion Battery DC3.7V-2500mAh
Remark:	The Model: PC7028,PC7028ME,PC7028B,PC70XX(xx represents 00~99), PC70XXME(xx represents 00~99),PC70XXB(xx represents 00 ~ 99),KW-PC7028L,KW-PC7028,KW-PC70XXL(xx represents 00~99), KW-PC70XX(xx represents 00~99) were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and appearance of colour.

Operation Frequency each of channel For 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n(H40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (H40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Operation mode	Keep the EUT in continuous transmitting with modulation
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Registration No.: 817957**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 817957, February 27, 2012.

● **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.5 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23118282

Fax: 0755-23116366

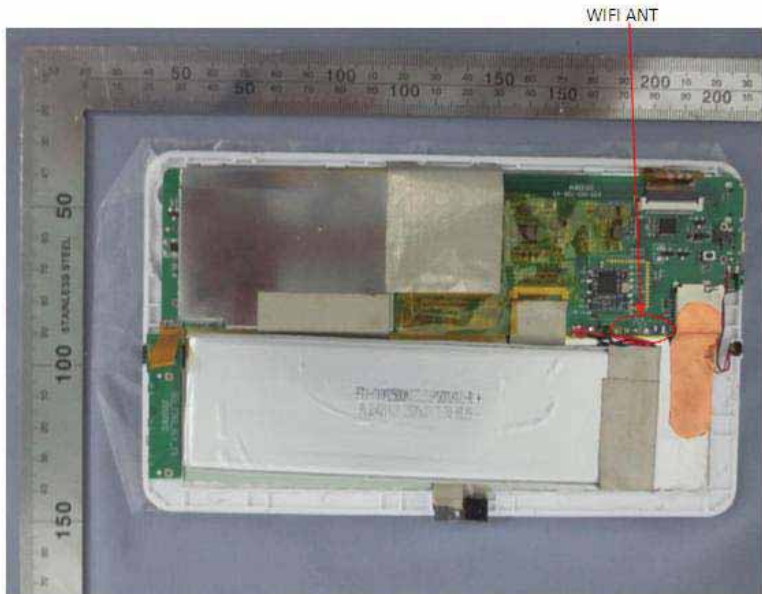
5.6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2013	June 08 2014
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014
10	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014
11	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2013	June 08 2014
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2013	Mar. 31 2014
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2013	Mar. 29 2014
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 25 2013	May. 24 2014
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2013	Mar. 31 2014
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 25 2013	May. 24 2014
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014
21	Spectrum analyzer	Agilent	E4440A	US43362176	Jan.11 2013	Jan.10 2014

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2013	June 08 2014
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2013	May 24 2014
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2013	Mar. 31 2014
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement:

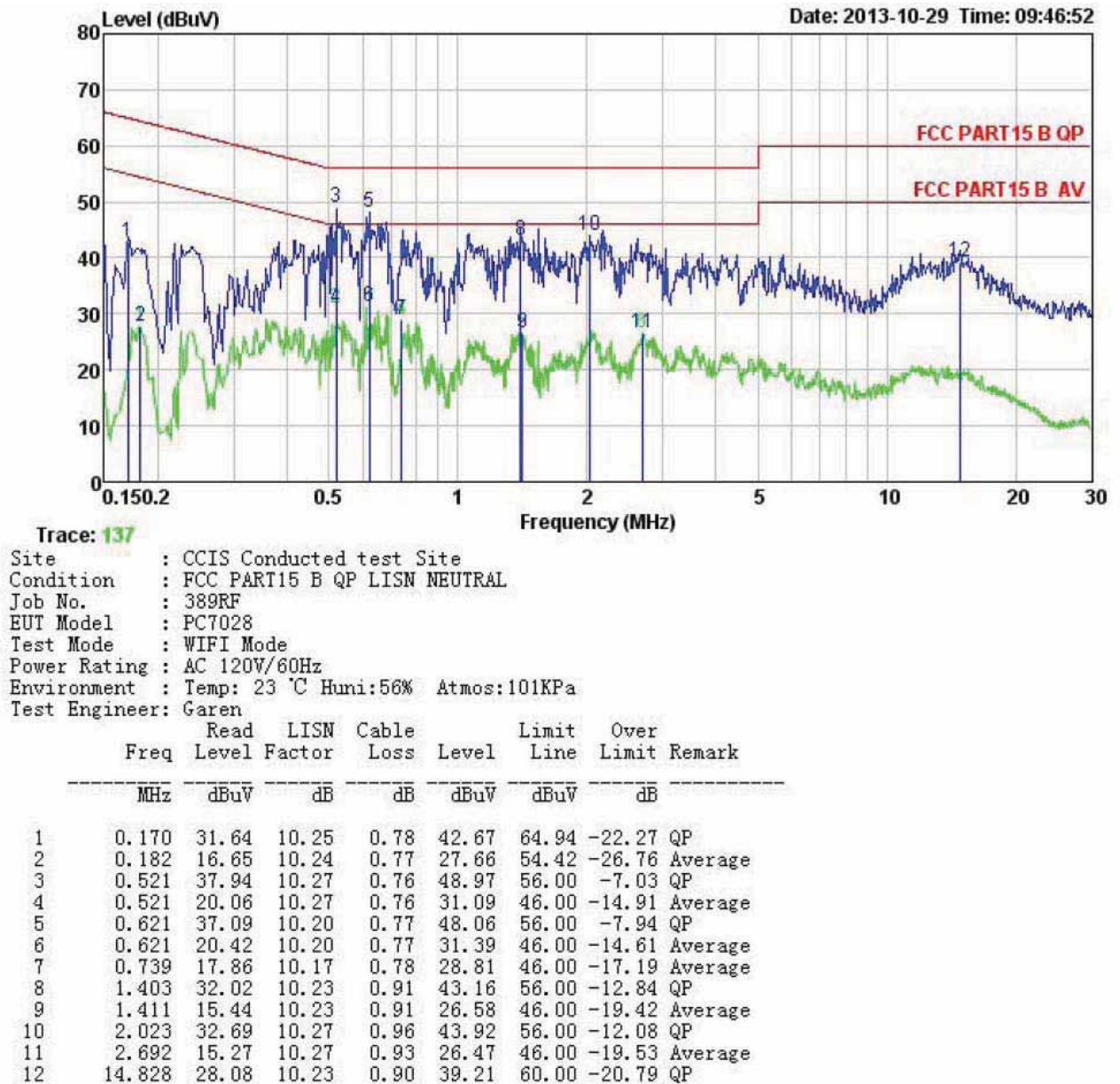
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i> 15.247(c) (1)(i) requirement: <i>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i>	
E.U.T Antenna:	
<i>The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 1dBi.</i>	
	

6.2 Conducted Emission

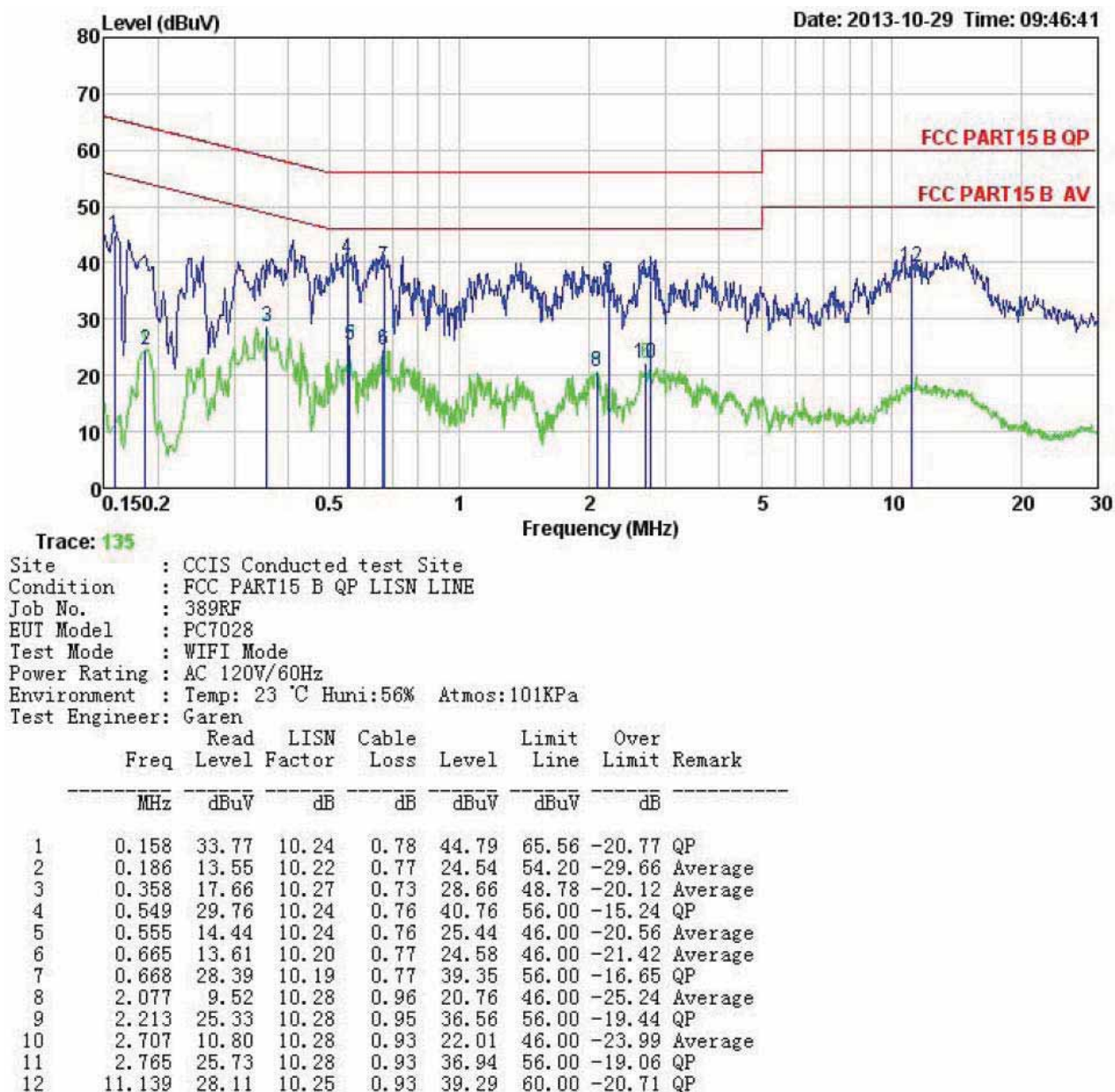
Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.4: 2003																
Test Frequency Range:	150 kHz to 30 MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9 kHz, VBW=30 kHz																
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * Decreases with the logarithm of the frequency.			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.																
Test setup:	Reference Plane LISN AUX Equipment E.U.T 40cm 80cm LISN Filter AC power EMI Receiver Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m																
Test Instruments:	Refer to section 5.6 for details																
Test mode:	Refer to section 5.3 for details																
Test results:	Passed																

Measurement Data

Neutral:



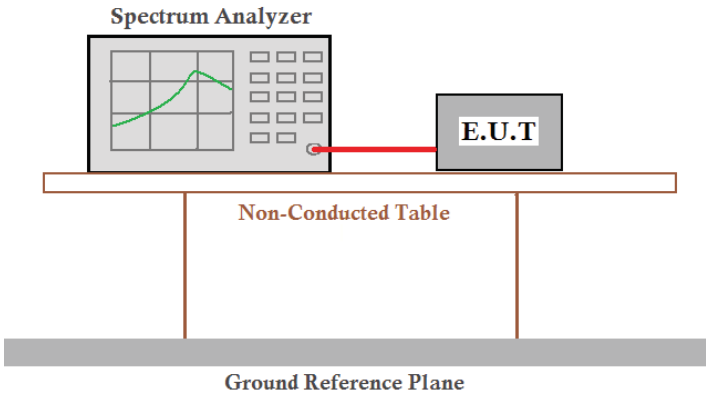
Line:



Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

6.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074 v03
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Test method refer to KDB558074 v03

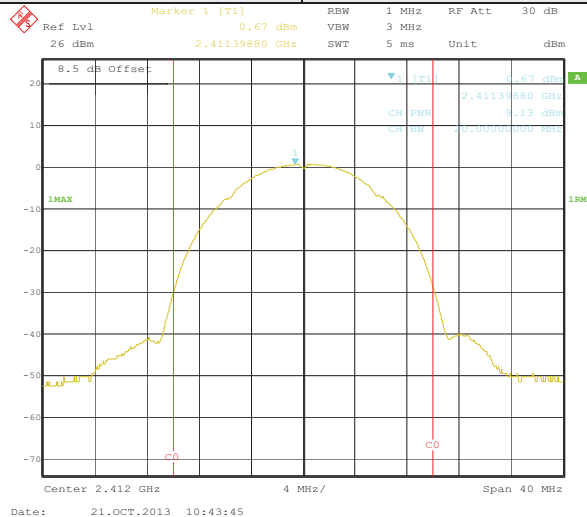
Measurement Data

Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	9.13	7.78	6.79	6.03	30.00	Pass
Middle	8.89	8.03	7.09	5.84		
Highest	8.82	7.79	7.07	6.02		

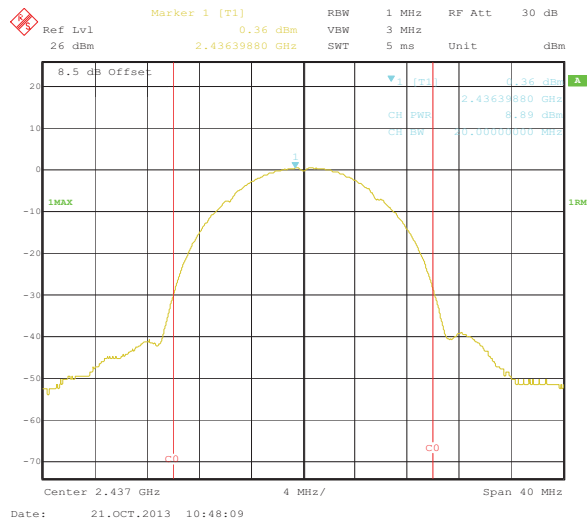
Test plot as follows:

Test mode:

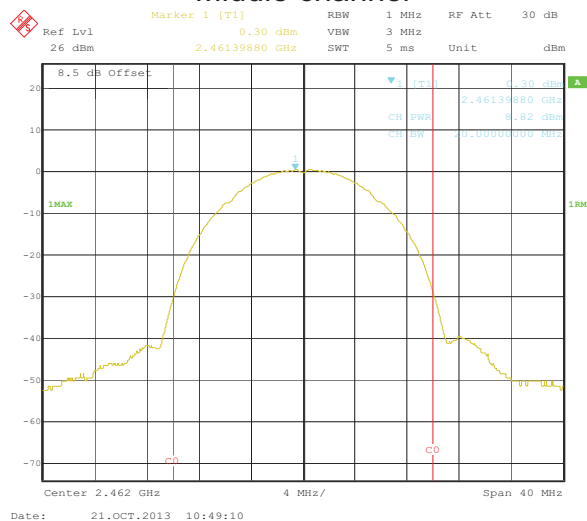
802.11b



Lowest channel



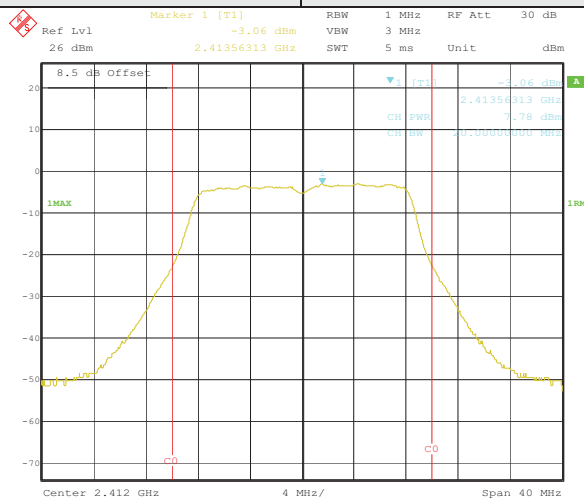
Middle channel



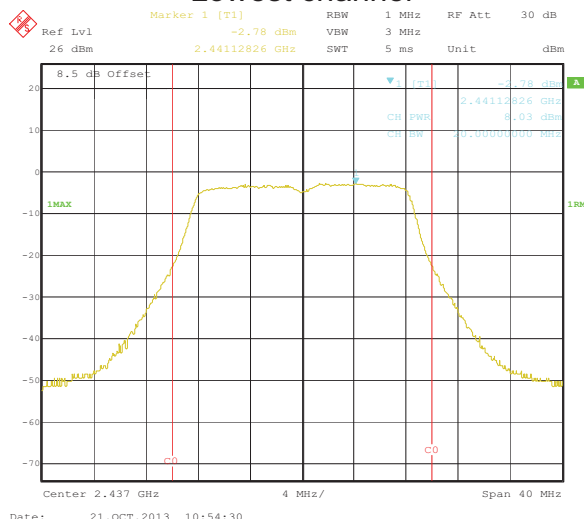
Highest channel

Test mode:

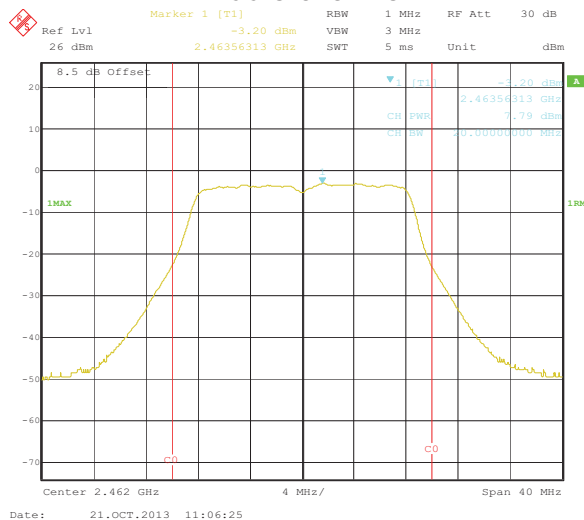
802.11g



Lowest channel

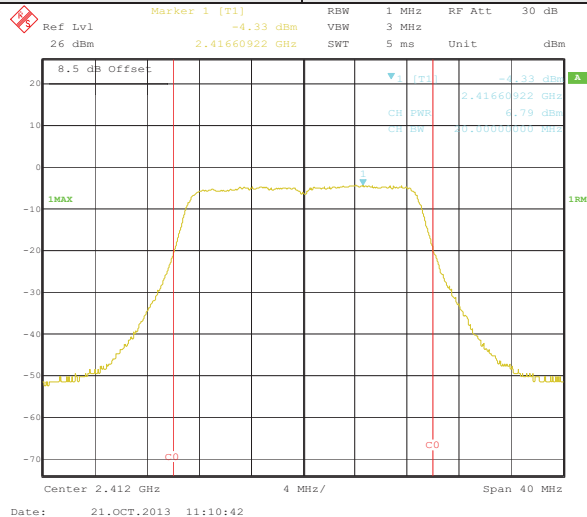


Middle channel

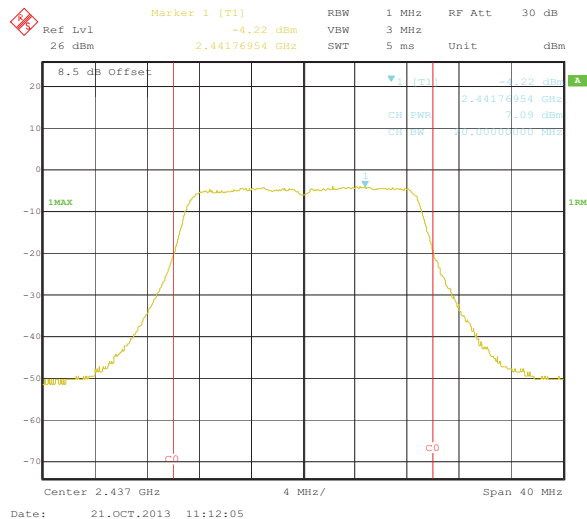


Highest channel

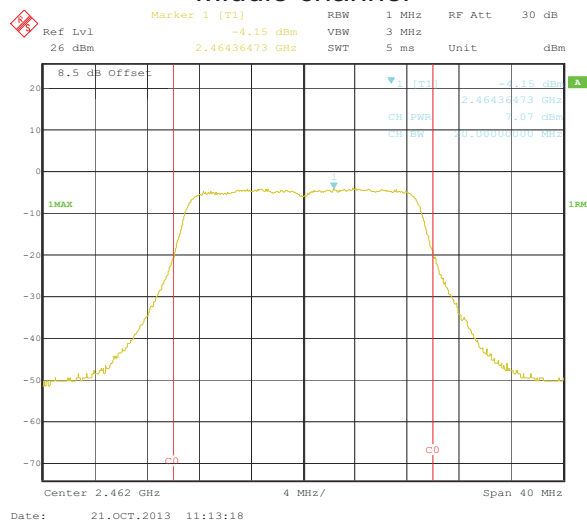
Test mode:	802.11n(H20)
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Lowest channel

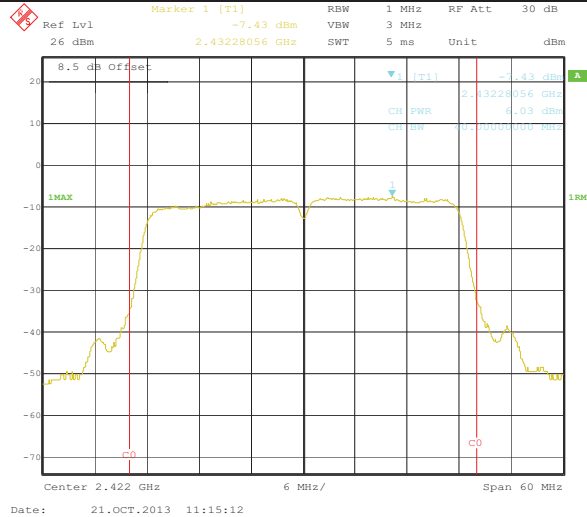


Middle channel

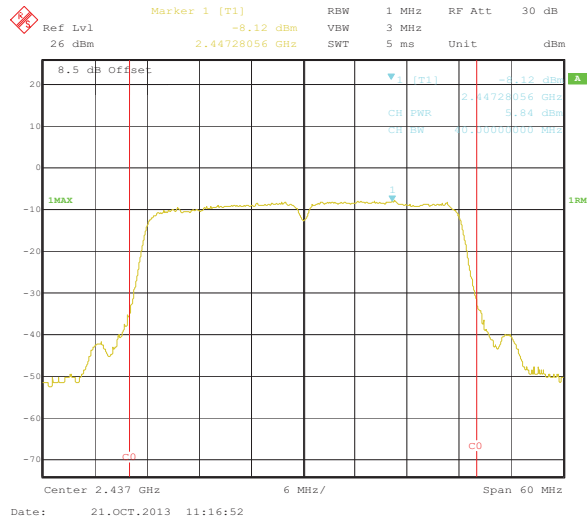


Highest channel

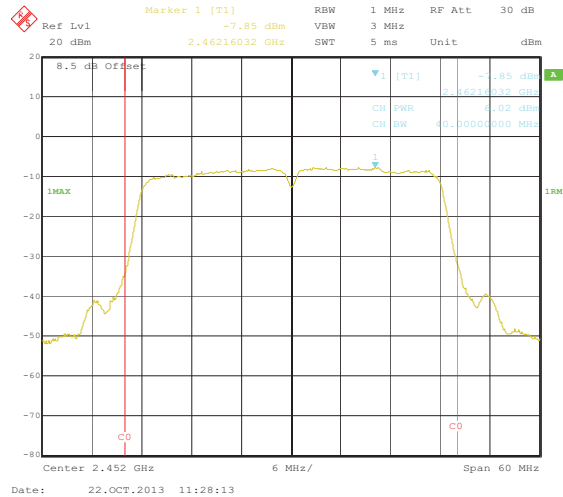
Test mode:	802.11n(H40)
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Lowest channel

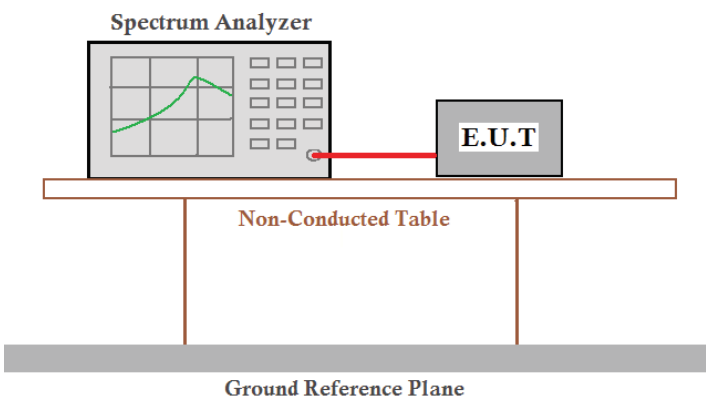


Middle channel



Highest channel

6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074 v03
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

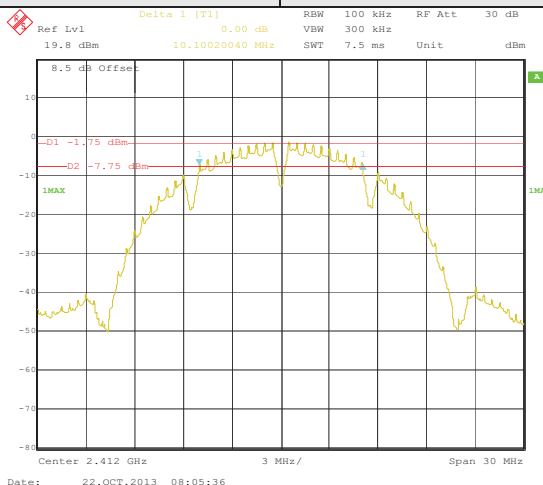
Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.10	16.53	17.80	36.07	>500	Pass
Middle	10.04	16.53	17.80	36.19		
Highest	10.10	16.53	17.80	36.31		

Test CH	99% Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	14.97	16.53	17.74	35.95	N/A	N/A
Middle	14.97	16.53	17.80	35.95		
Highest	14.91	16.53	17.68	36.07		

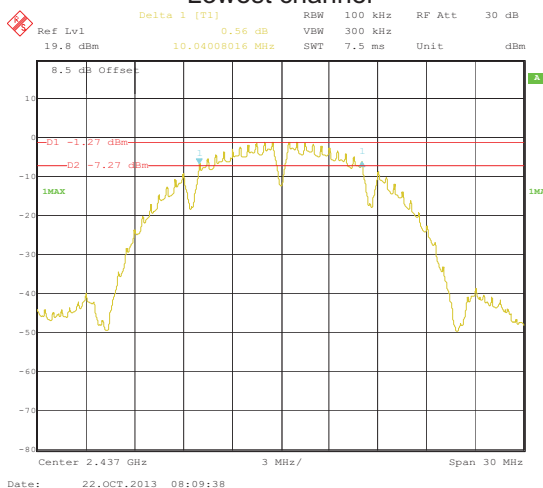
Test plot as follows:

Test mode:6dB OBW

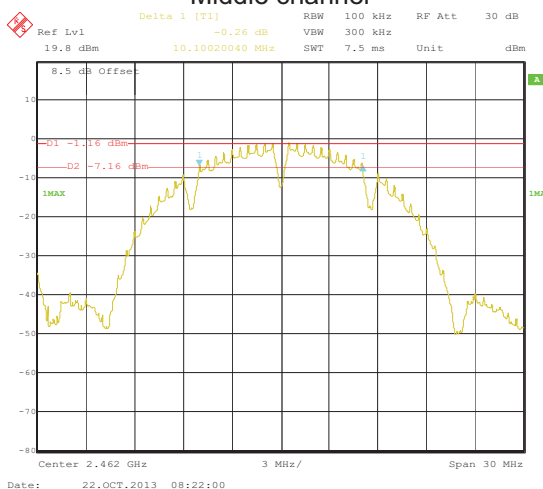
802.11b



Lowest channel



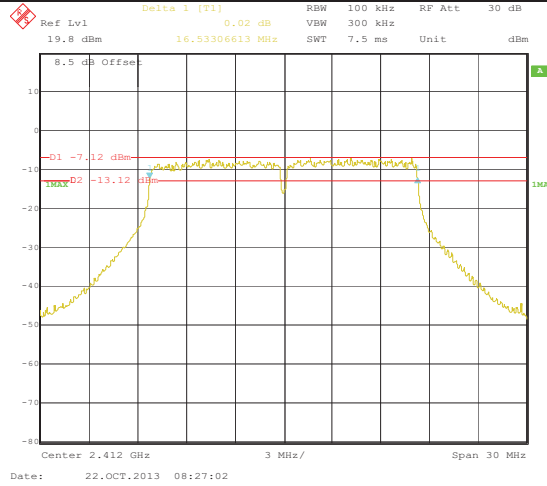
Middle channel



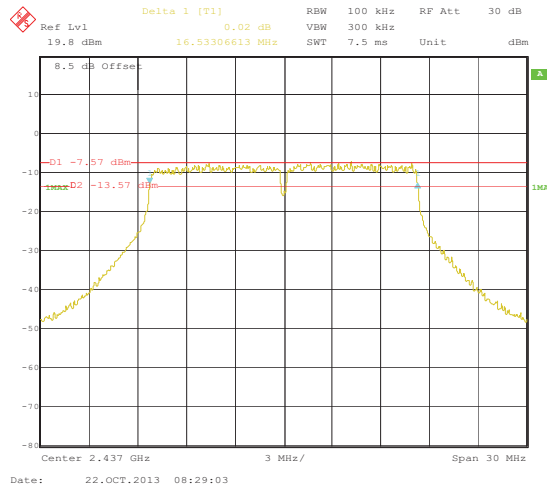
Highest channel

Test mode:6dB OBW

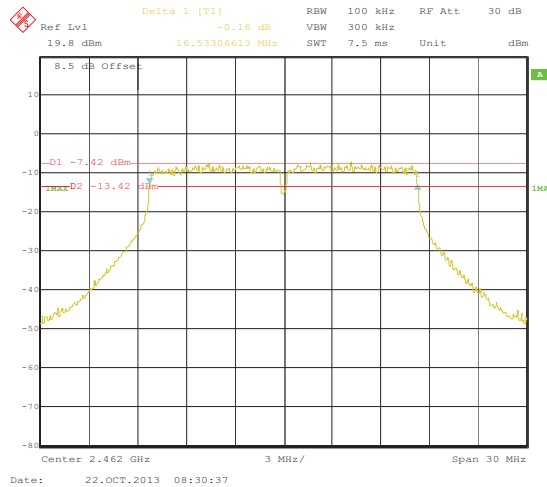
802.11g



Lowest channel



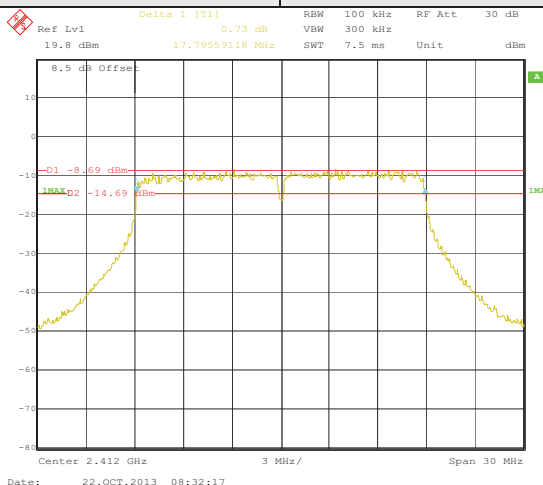
Middle channel



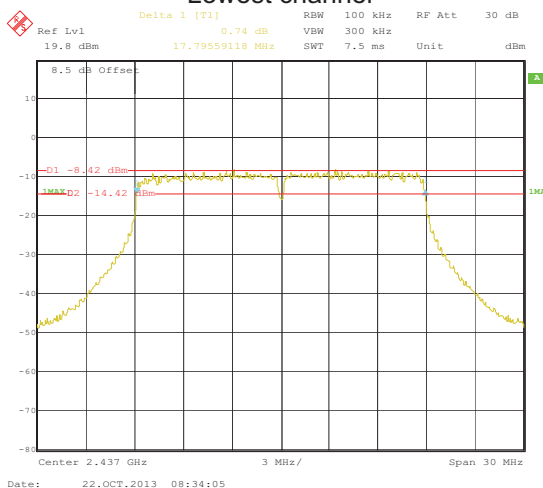
Highest channel

Test mode:6dB OBW

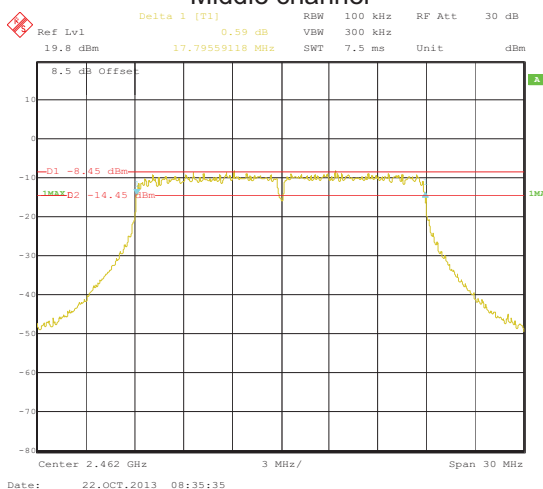
802.11n(H20)



Lowest channel



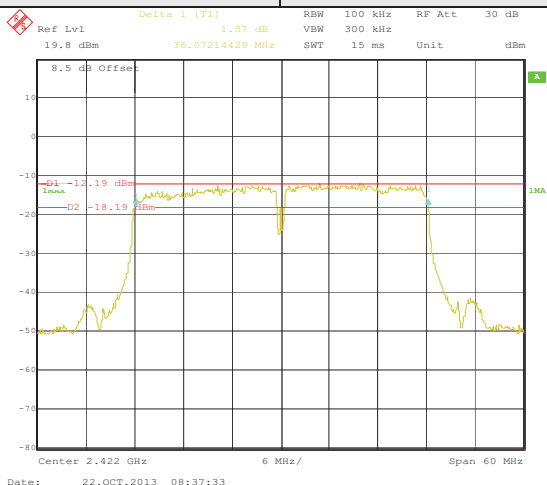
Middle channel



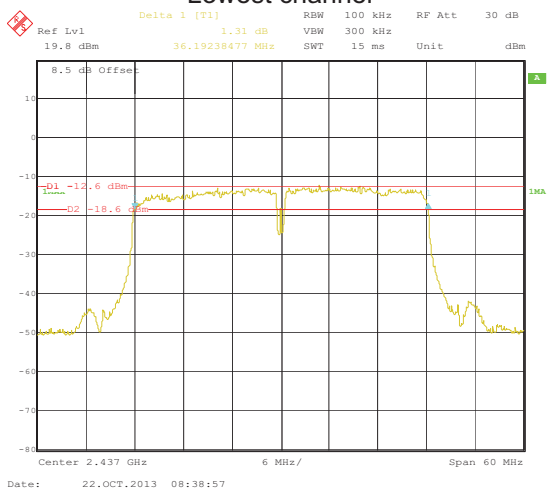
Highest channel

Test mode:6dB OBW

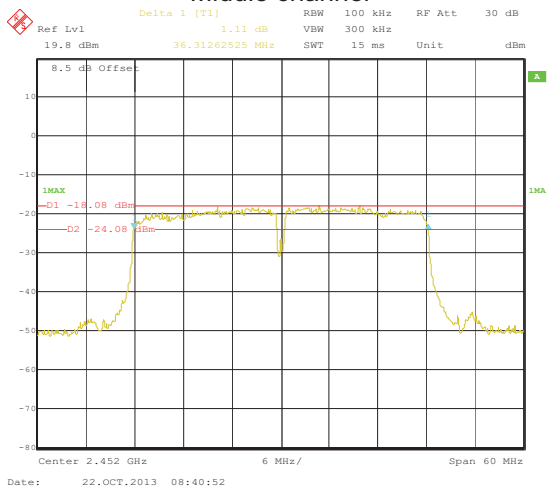
802.11n(H40)



Lowest channel



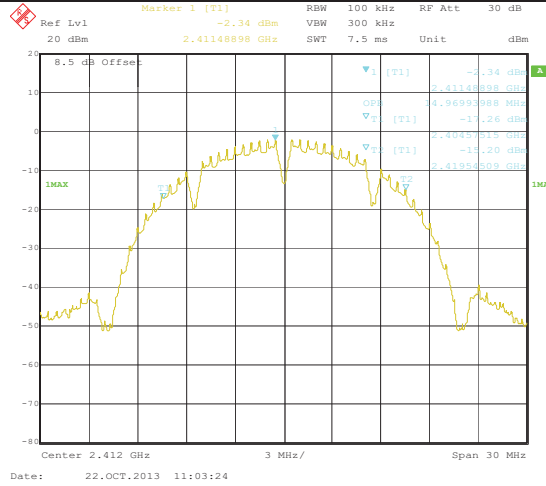
Middle channel



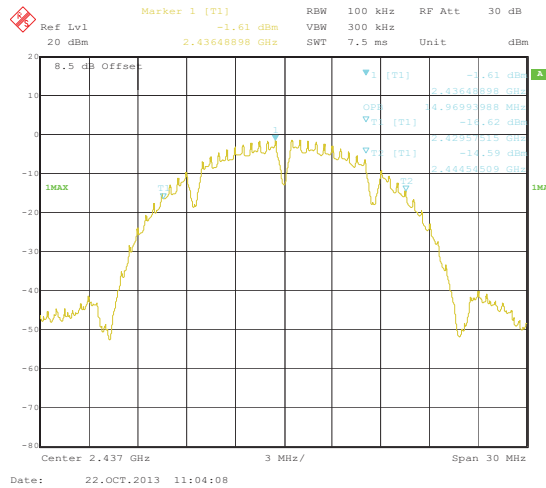
Highest channel

Test mode:99% OBW

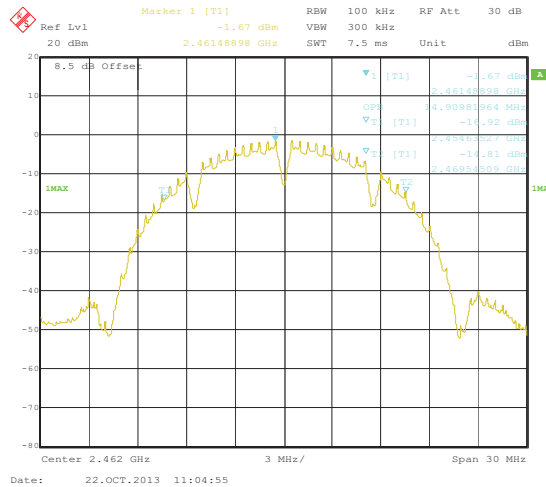
802.11b



Lowest channel



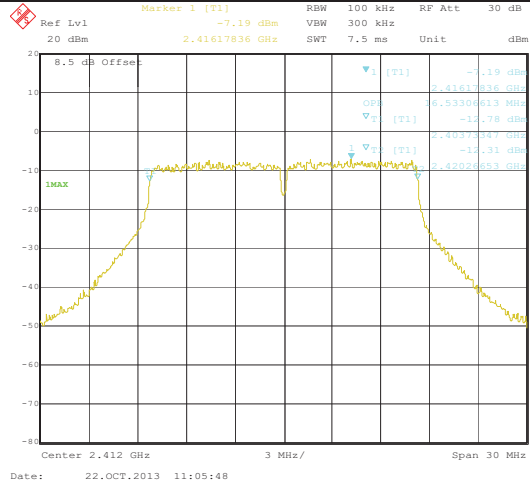
Middle channel



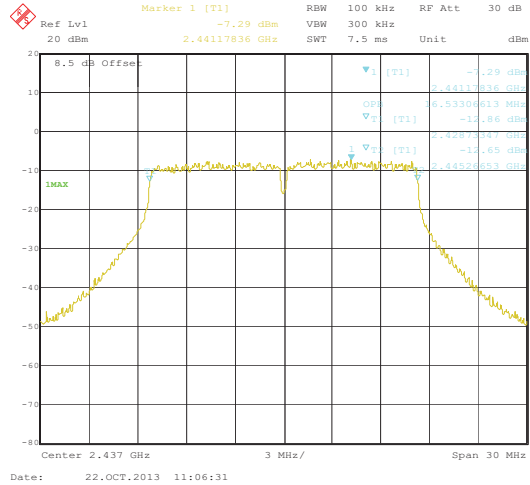
Highest channel

Test mode: 99% OBW

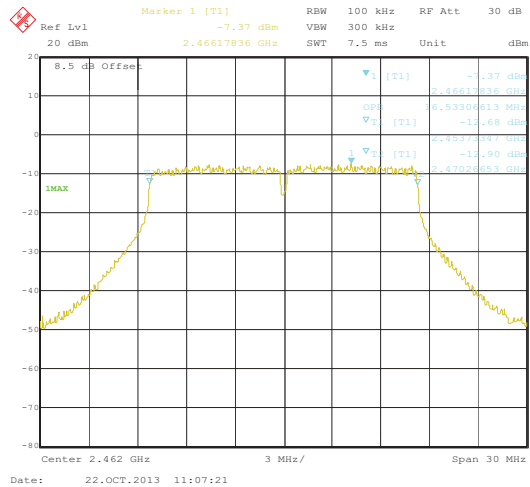
802.11g



Lowest channel



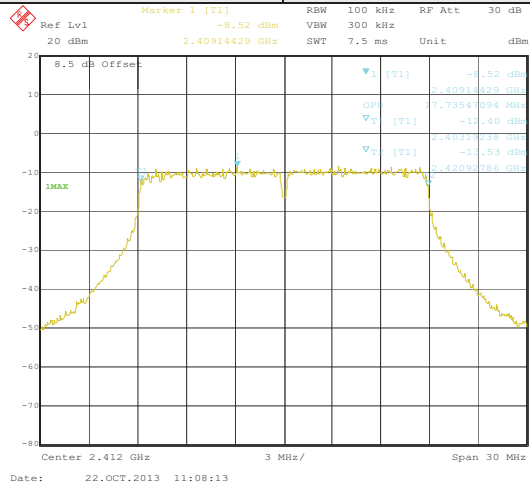
Middle channel



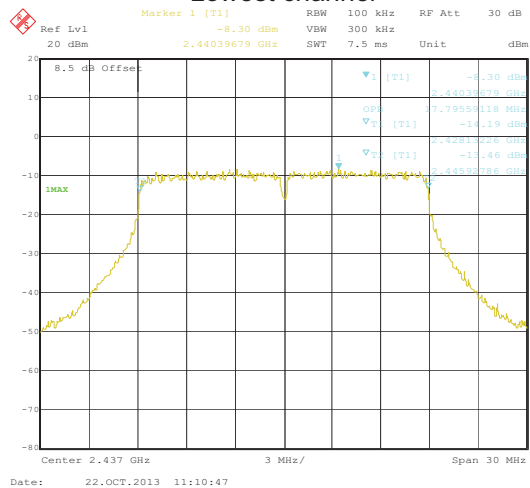
Highest channel

Test mode: 99% OBW

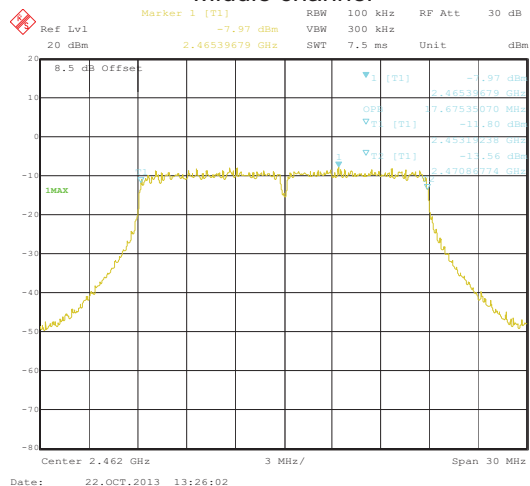
802.11n(H20)



Lowest channel



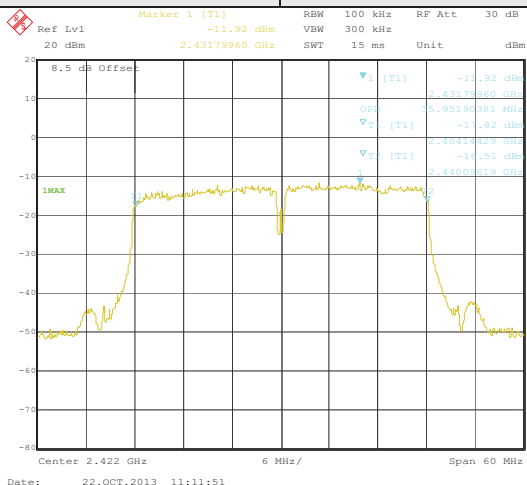
Middle channel



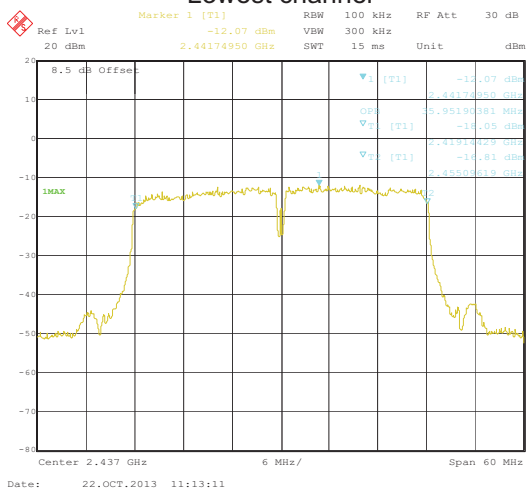
Highest channel

Test mode: 99% OBW

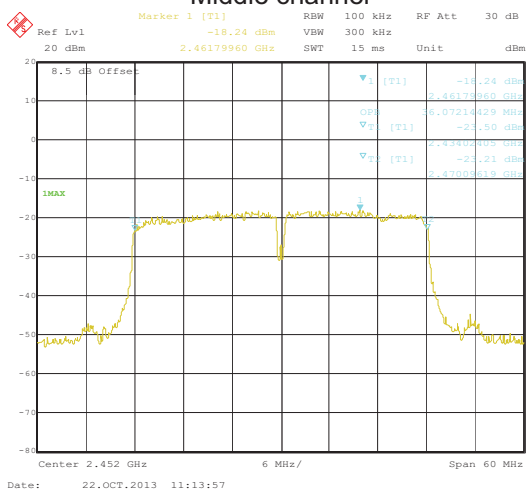
802.11n(H40)



Lowest channel

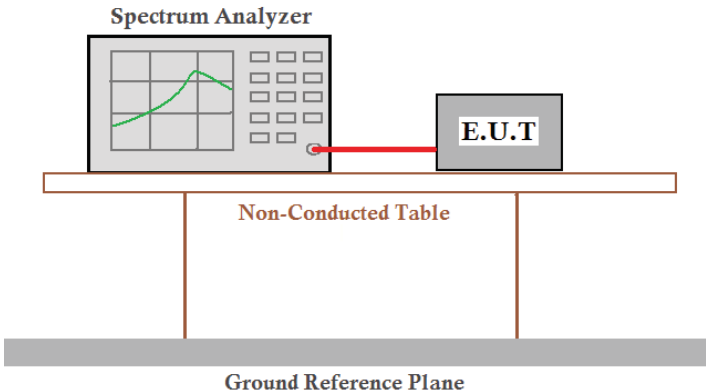


Middle channel



Highest channel

6.5 Power Spectral Density

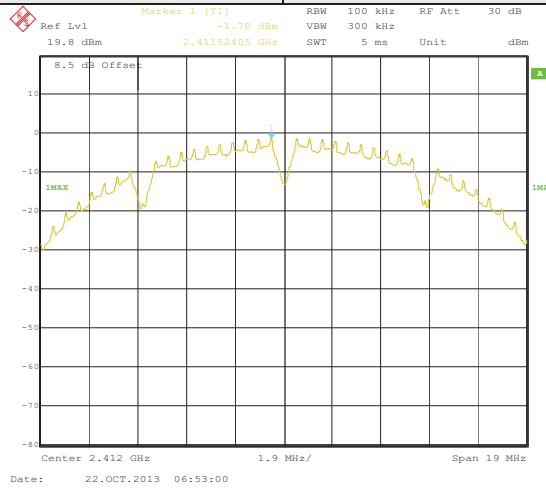
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074 v03
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

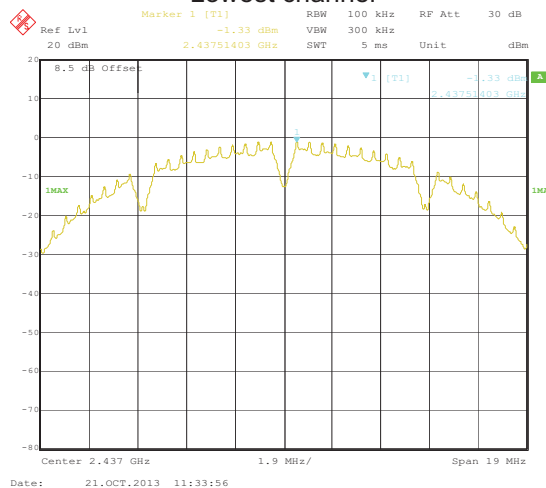
Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	-1.70	-6.63	-7.90	-11.73	8.00	Pass
Middle	-1.33	-6.65	-7.52	-11.98		
Highest	-1.28	-6.73	-7.70	-13.66		

Test plot as follows:

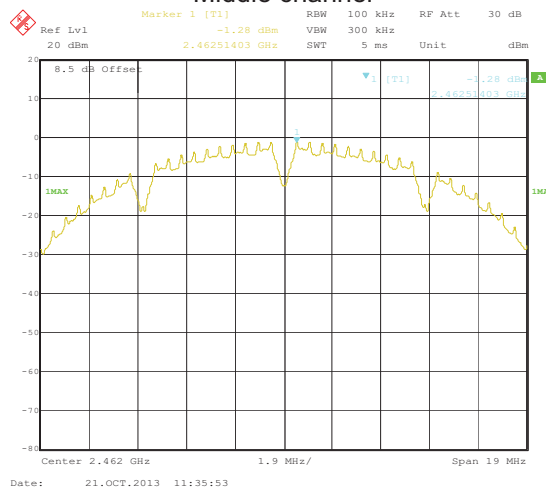
Test mode:	802.11b
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Lowest channel

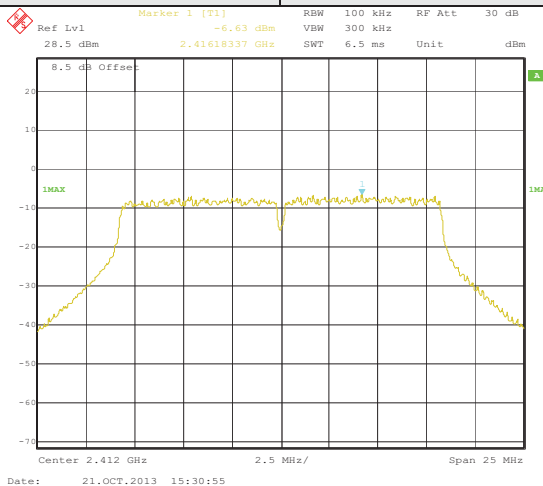


Middle channel

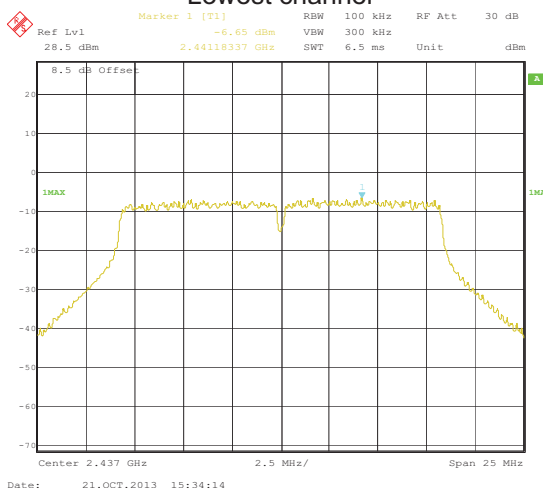


Highest channel

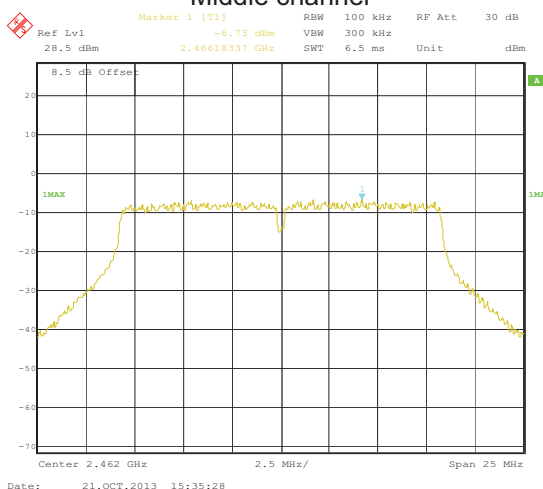
Test mode:	802.11g
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Lowest channel

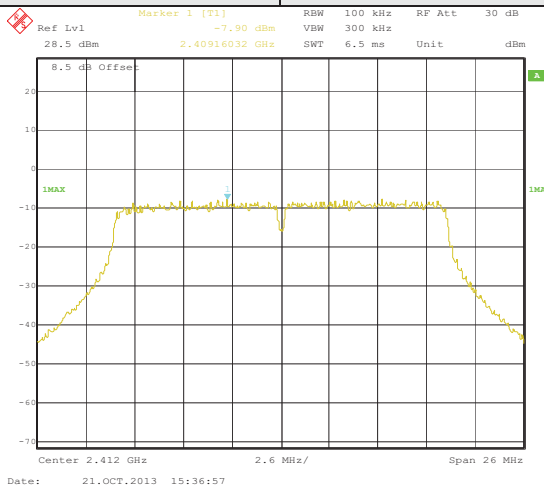


Middle channel

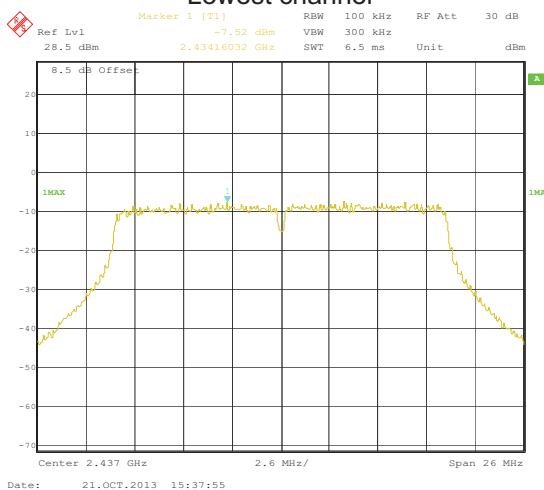


Highest channel

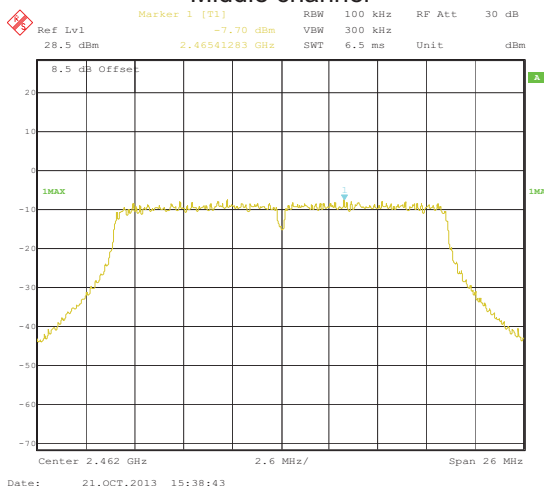
Test mode:	802.11n(H20)
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Lowest channel

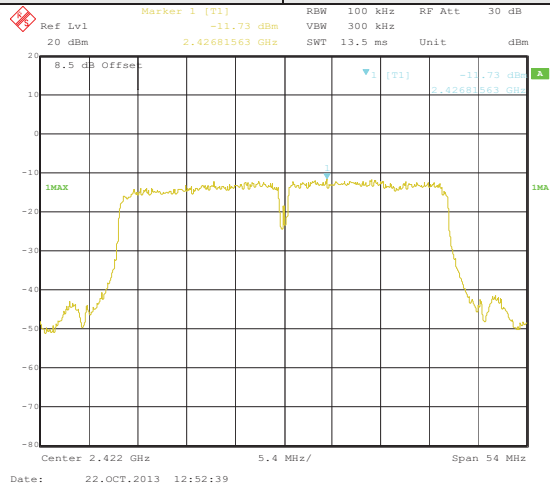


Middle channel

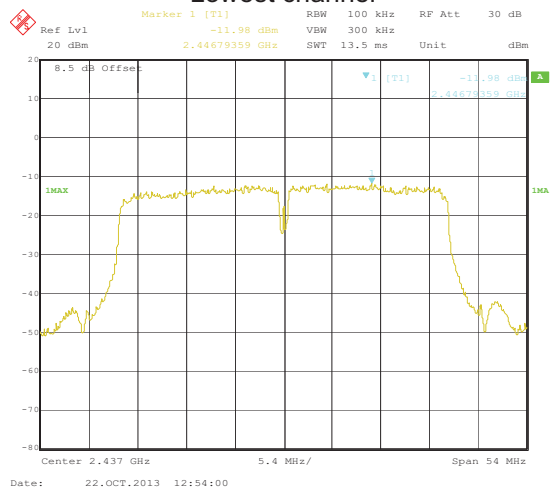


Highest channel

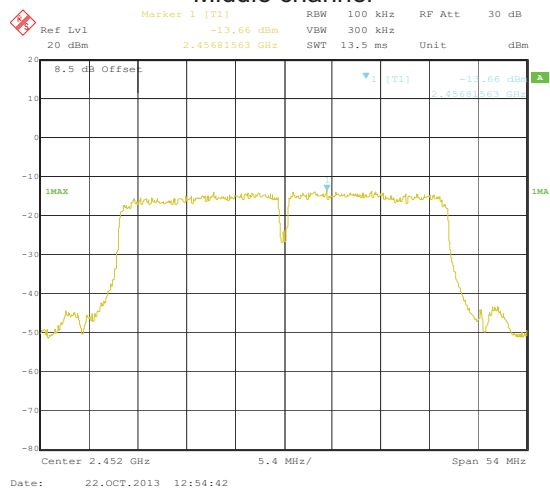
Test mode:	802.11n(H40)
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Lowest channel



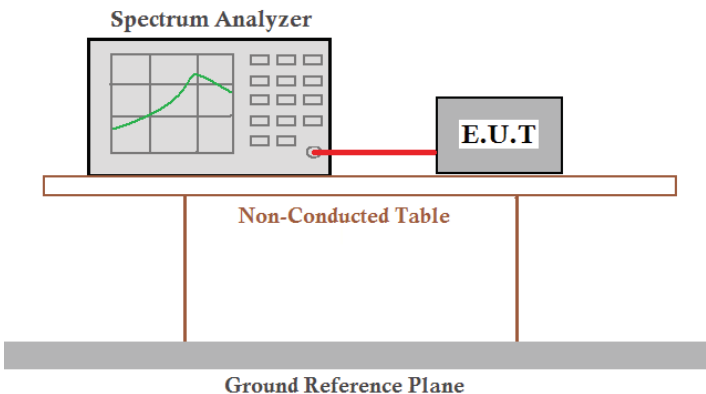
Middle channel



Highest channel

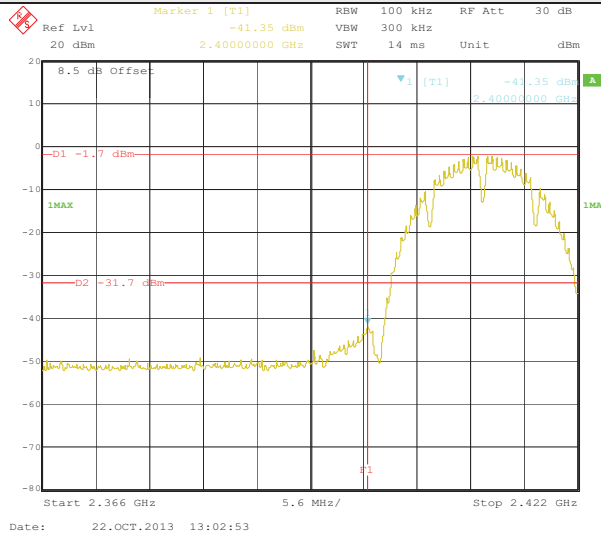
6.6 Band Edge

6.6.1 Conducted Emission Method

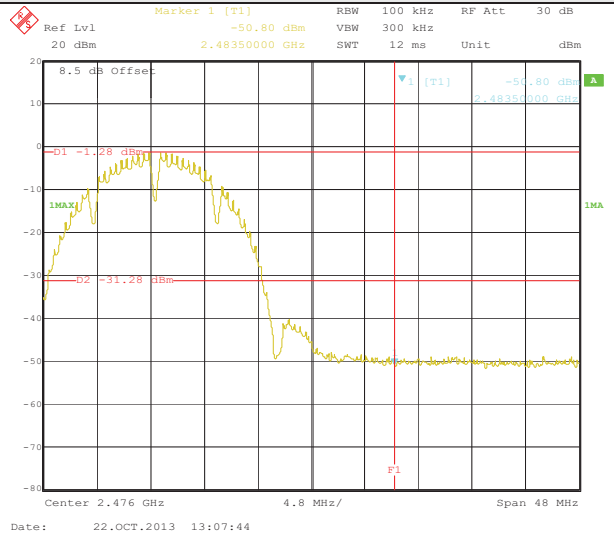
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074 v03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

Test mode:	802.11b
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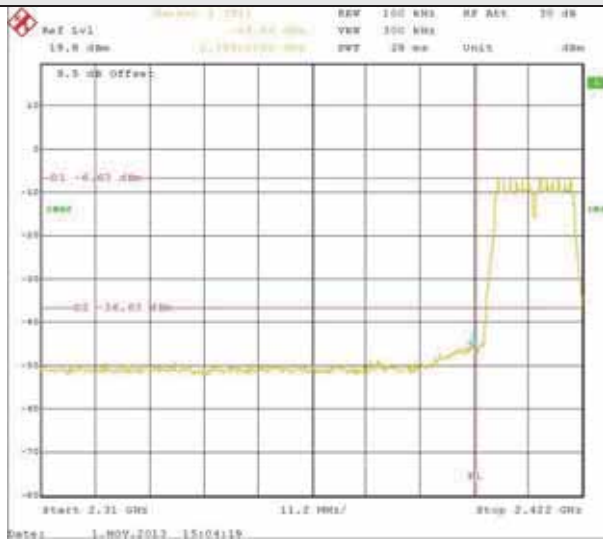


Lowest channel

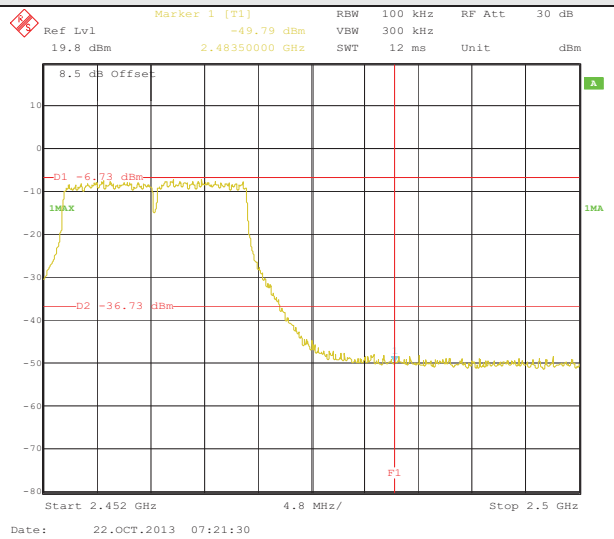


Highest channel

Test mode:	802.11g
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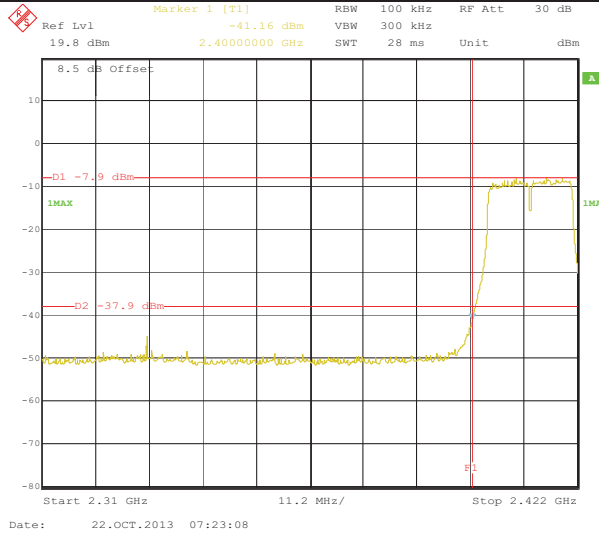


Lowest channel

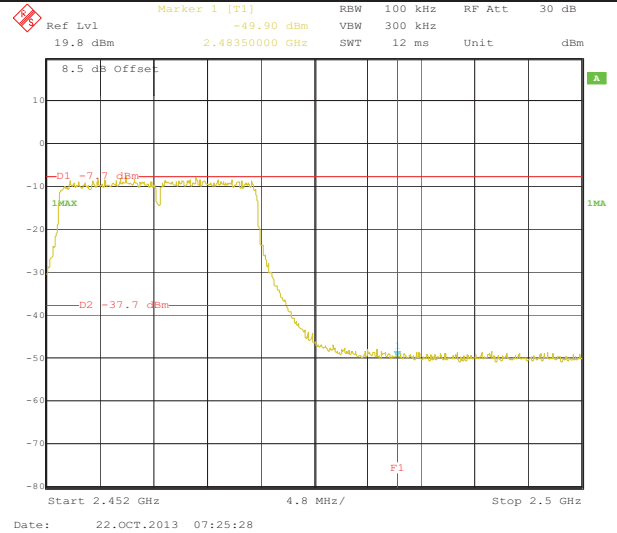


Highest channel

Test mode: 802.11n(H20)

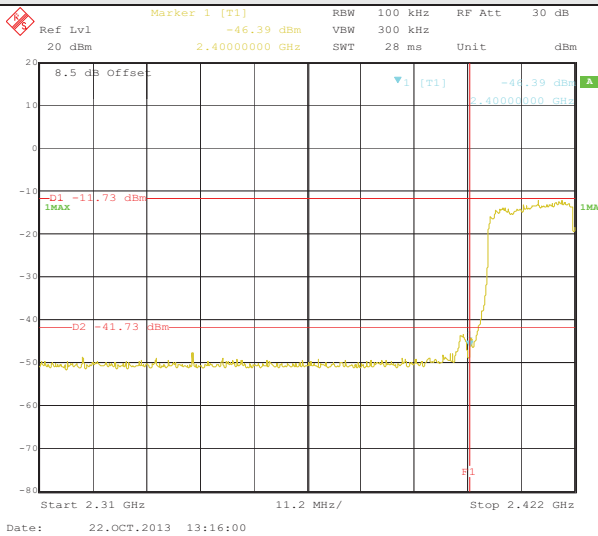


Lowest channel

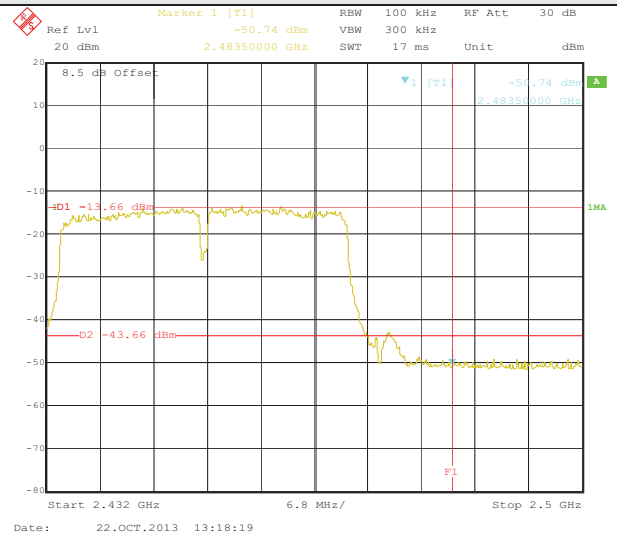


Highest channel

Test mode: 802.11n(H40)

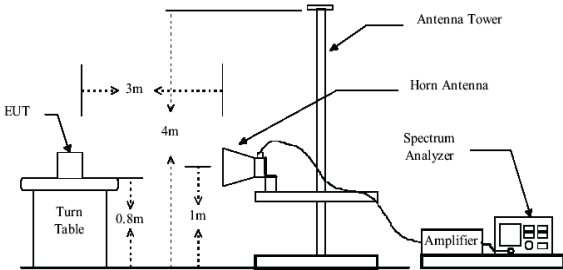


Lowest channel



Highest channel

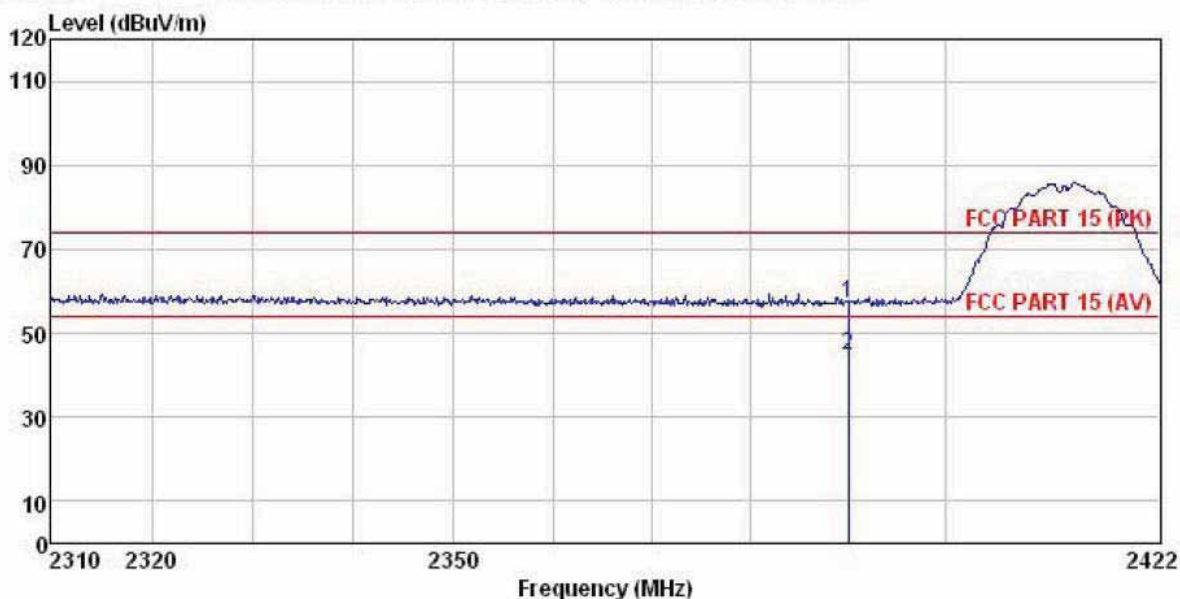
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																		
Test Method:	ANSI C63.4: 2003																		
Test Frequency Range:	2.3GHz to 2.5GHz																		
Test site:	Measurement Distance: 3m																		
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value
Frequency	Detector	RBW	VBW	Remark															
Above 1GHz	Peak	1MHz	3MHz	Peak Value															
	Peak	1MHz	10Hz	Average Value															
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr><tr><td>74.00</td><td>Peak Value</td></tr></table>					Frequency	Limit (dBuV/m @3m)	Remark	Above 1GHz	54.00	Average Value	74.00	Peak Value						
Frequency	Limit (dBuV/m @3m)	Remark																	
Above 1GHz	54.00	Average Value																	
	74.00	Peak Value																	
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.																		
Test setup:																			
Test Instruments:	Refer to section 5.6 for details																		
Test mode:	Refer to section 5.3 for details																		
Test results:	Passed																		

802.11b

Test channel: Lowest

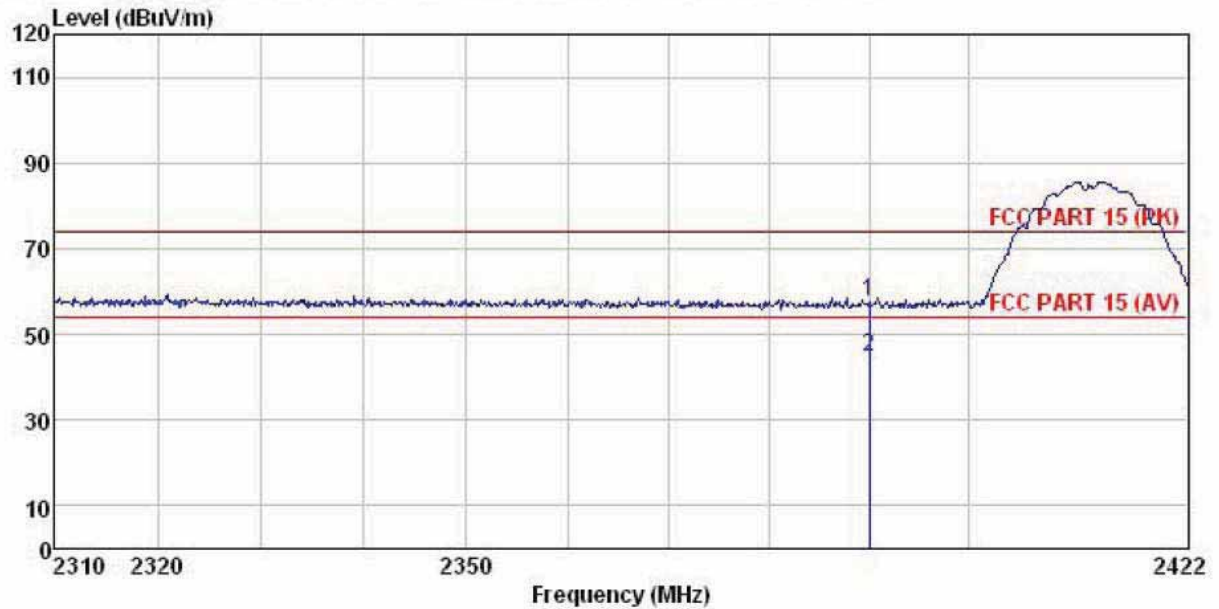
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : 11B-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
		Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	23.71	27.58	5.67	0.00	56.96	74.00	-17.04 Peak
2	2390.000	11.30	27.58	5.67	0.00	44.55	54.00	-9.45 Average

Vertical :

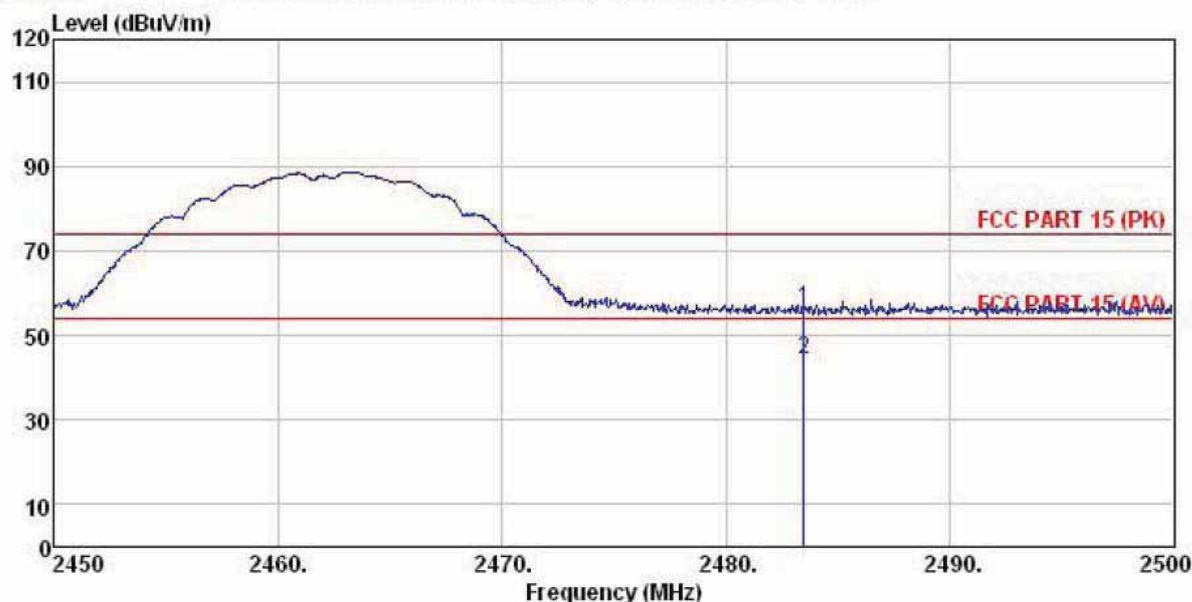


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : 11B-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	24.47	27.58	5.67	0.00	57.72	74.00	-16.28	Peak
2	2390.000	11.69	27.58	5.67	0.00	44.94	54.00	-9.06	Average

Test channel: Highest

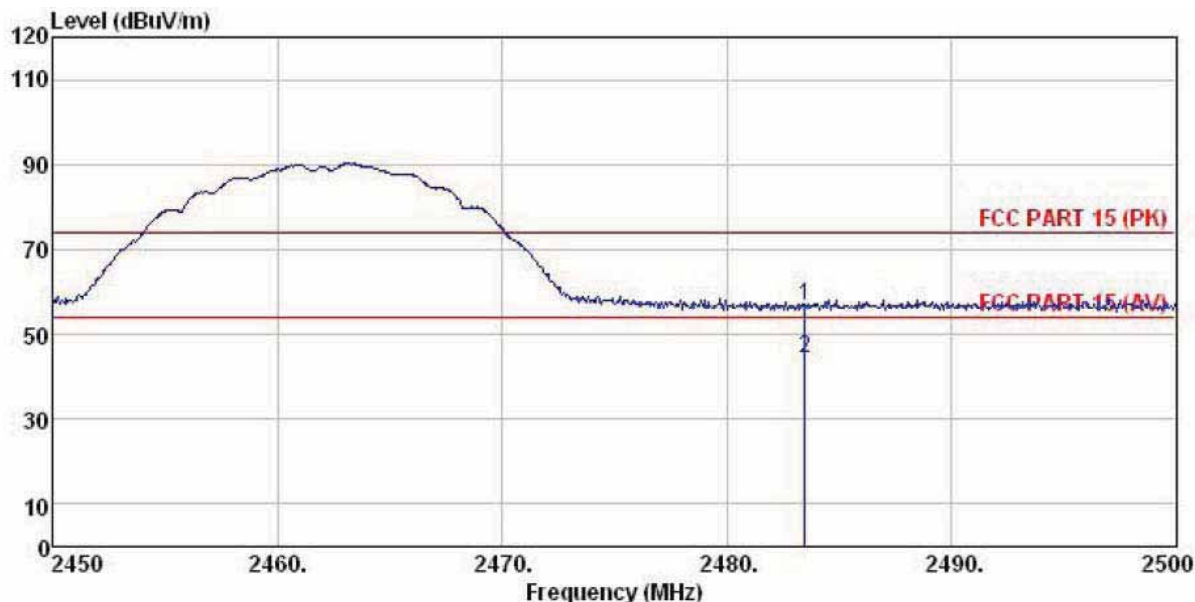
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : 11B-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.84	27.52	5.70	0.00	56.06	74.00	-17.94	Peak
2	2483.500	11.23	27.52	5.70	0.00	44.45	54.00	-9.55	Average

Vertical :



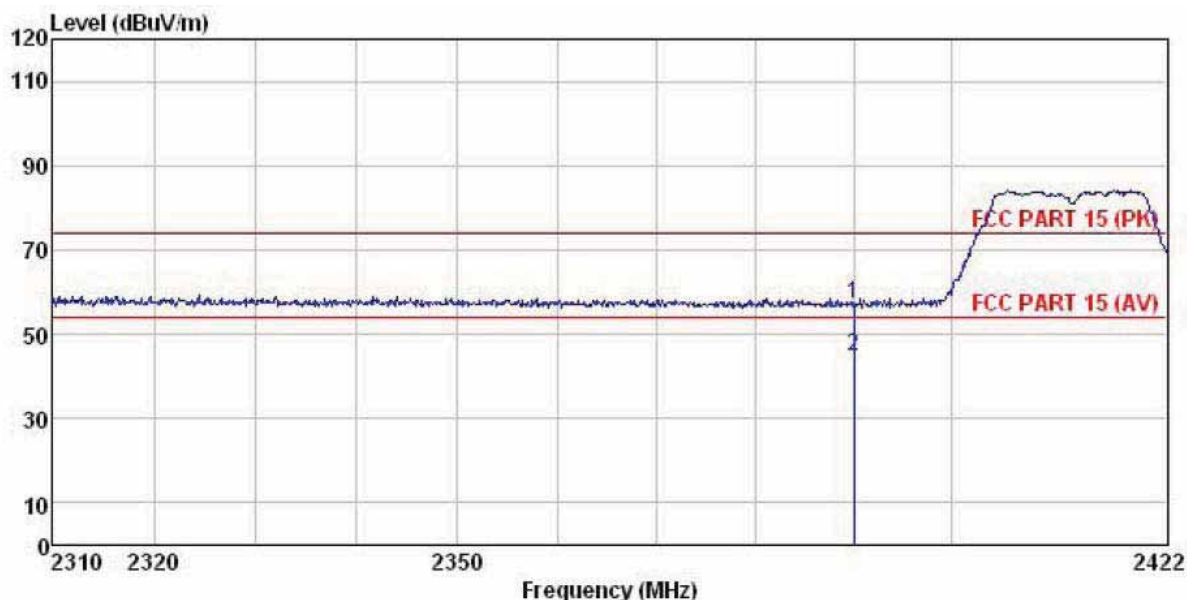
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : 11B-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp			Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	23.33	27.52	5.70	0.00	56.55	74.00	-17.45 Peak
2	2483.500	11.26	27.52	5.70	0.00	44.48	54.00	-9.52 Average

802.11g

Test channel: Lowest

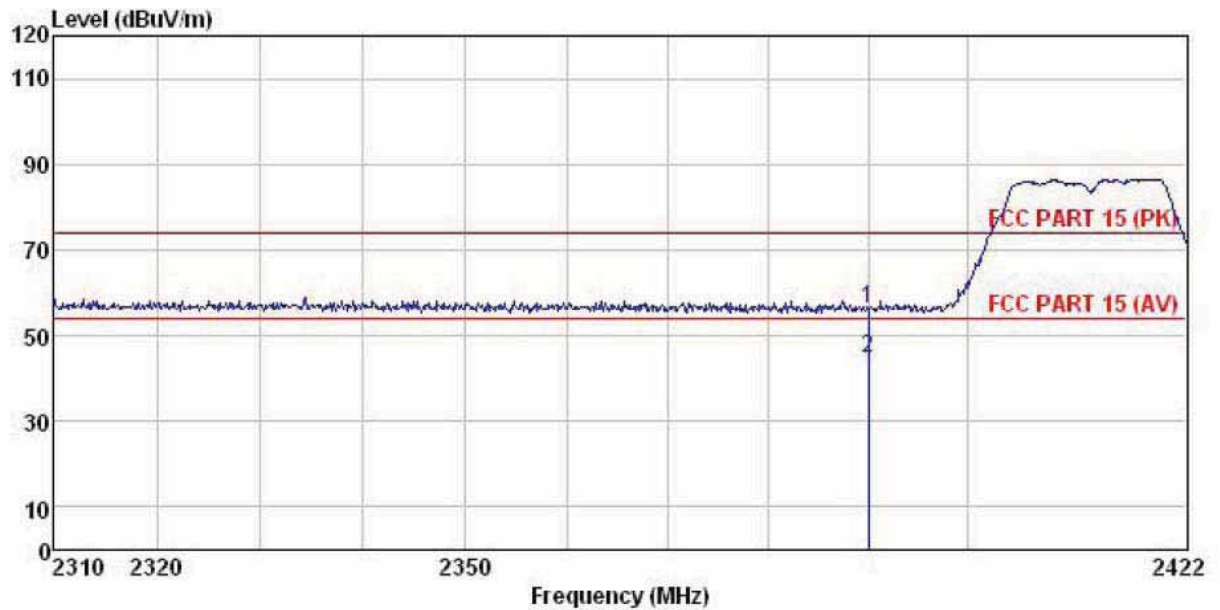
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : 11G-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	23.78	27.58	5.67	0.00	57.03	74.00	-16.97 Peak
2	2390.000	11.32	27.58	5.67	0.00	44.57	54.00	-9.43 Average

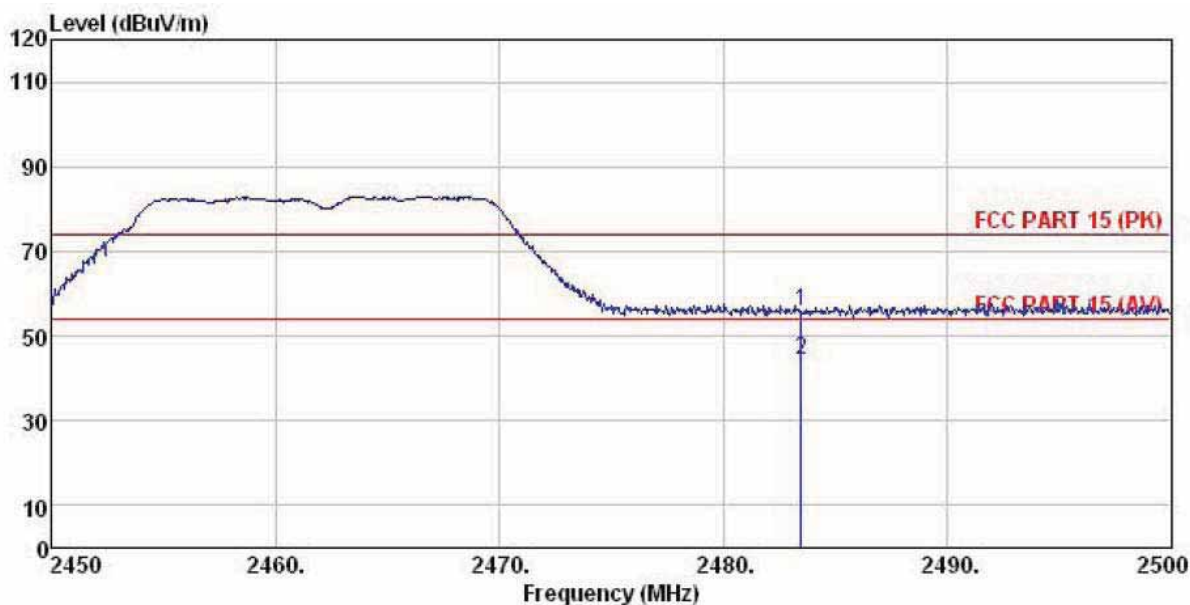
Vertical :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : 11G-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	22.81	27.58	5.67	0.00	56.06	74.00	-17.94	Peak
2	2390.000	11.68	27.58	5.67	0.00	44.93	54.00	-9.07	Average

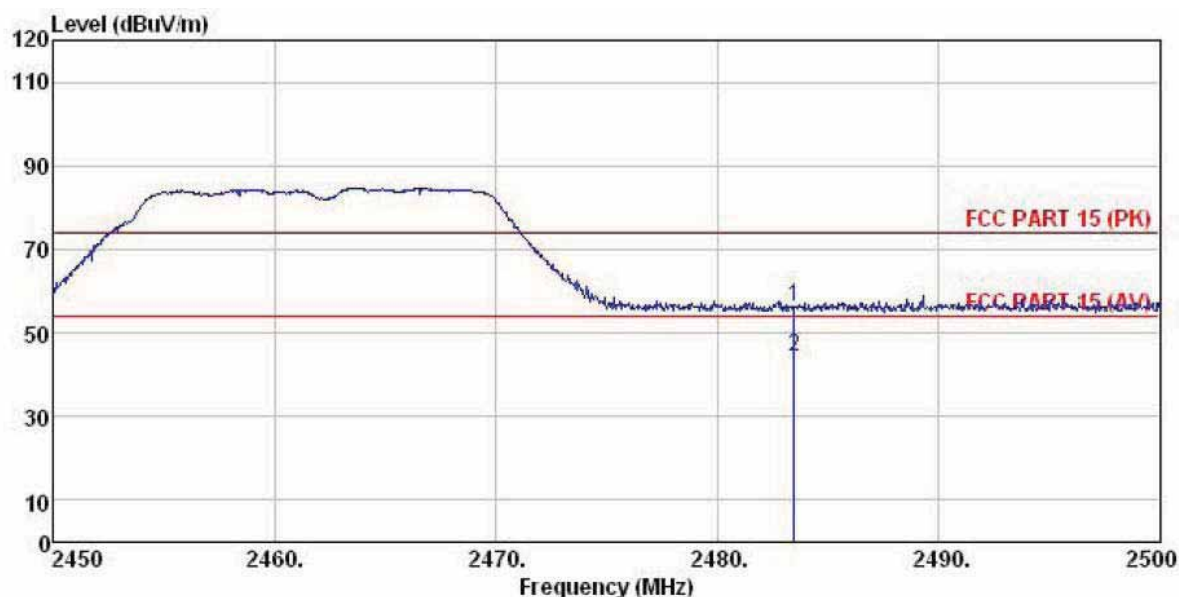
Test channel: Highest



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : 11G-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read	Antenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.68	27.52	5.70	0.00	55.90	74.00	-18.10	Peak
2	2483.500	11.22	27.52	5.70	0.00	44.44	54.00	-9.56	Average

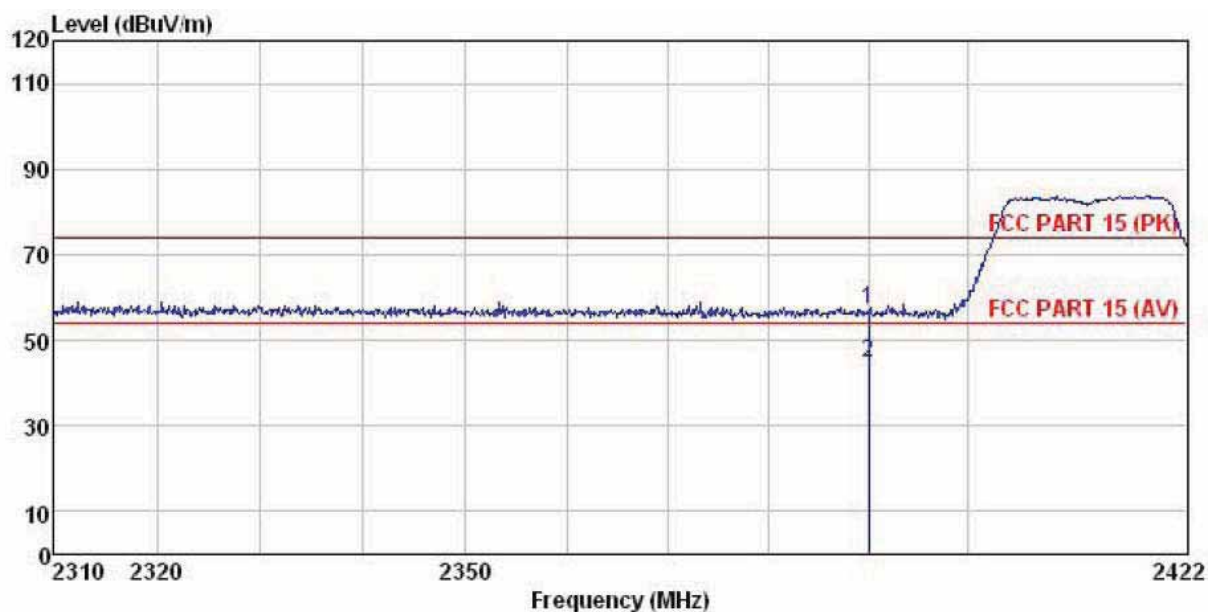
Vertical :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : 11G-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.89	27.52	5.70	0.00	56.11	74.00	-17.89	Peak
2	2483.500	11.22	27.52	5.70	0.00	44.44	54.00	-9.56	Average

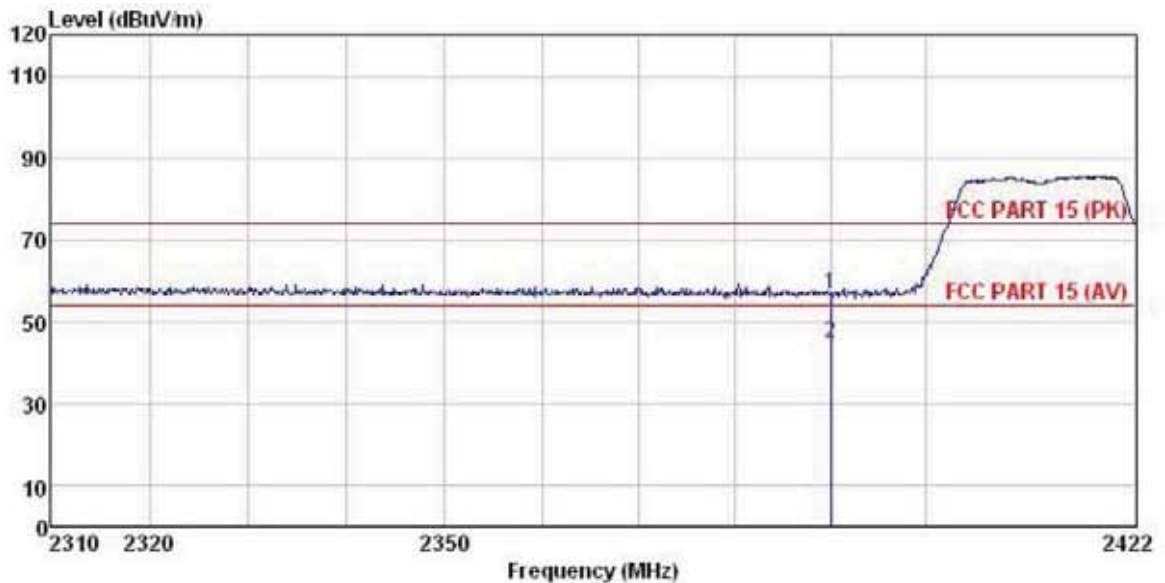
802.11n (H20)
Test channel: Lowest
Horizontal :



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : MID
Model : PC7028
Test mode : 11N20-L
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Garen
REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	23.66	27.58	5.67	0.00	56.91	74.00	-17.09 Peak
2	2390.000	11.36	27.58	5.67	0.00	44.61	54.00	-9.39 Average

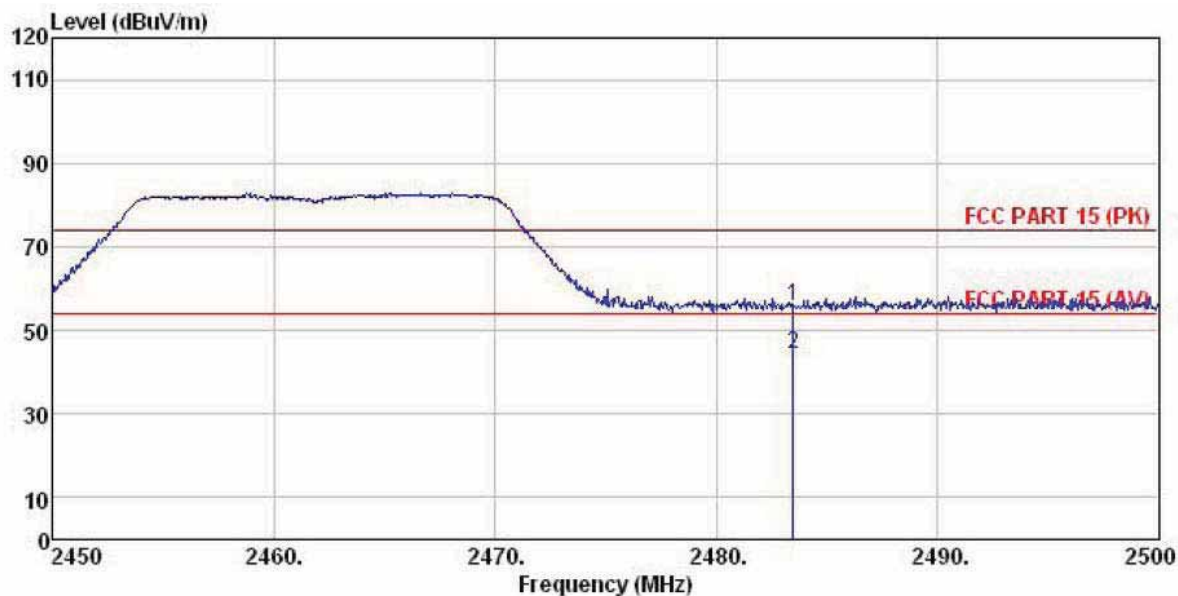
Vertical :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : 11N20-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5'C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp	Level	Limit	Over	
		Level Factor	Loss Factor	Line	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	2390.000	23.55	27.58	5.67	0.00	56.80	74.00 -17.20 Peak
2	2390.000	11.68	27.58	5.67	0.00	44.93	54.00 -9.07 Average

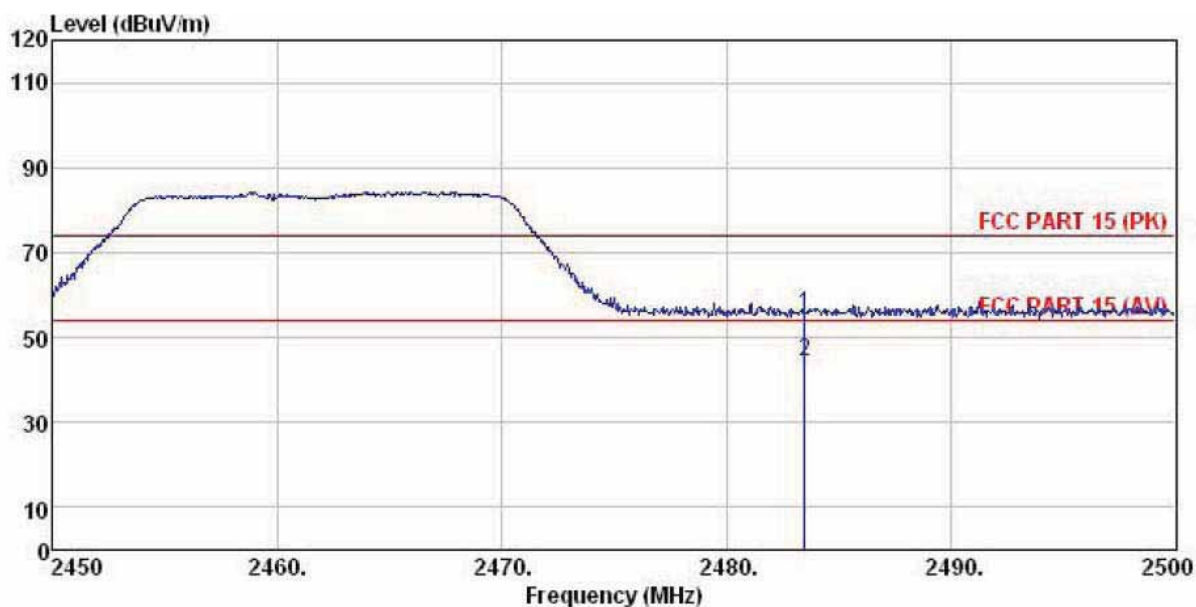
Test channel: Highest
Horizontal :



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : MID
Model : PC7028
Test mode : 11N20-H
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Garen
REMARK :

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	22.79	27.52	5.70	0.00	56.01	74.00	-17.99 Peak
2	2483.500	11.22	27.52	5.70	0.00	44.44	54.00	-9.56 Average

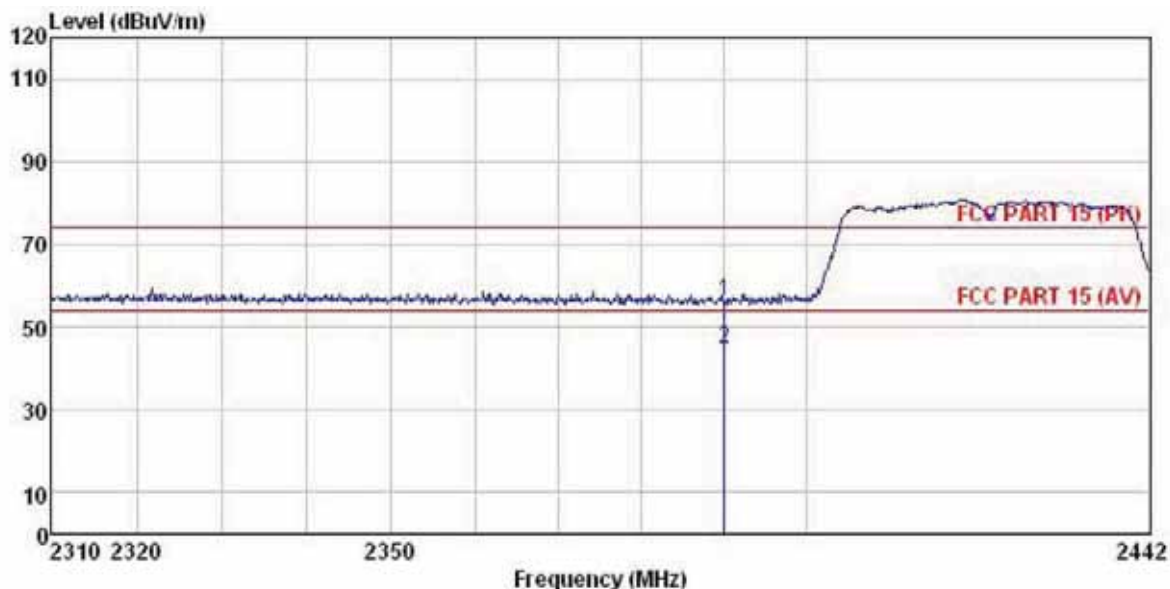
Vertical :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : 11N20-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.30	27.52	5.70	0.00	55.52	74.00	-18.48	Peak
2	2483.500	11.26	27.52	5.70	0.00	44.48	54.00	-9.52	Average

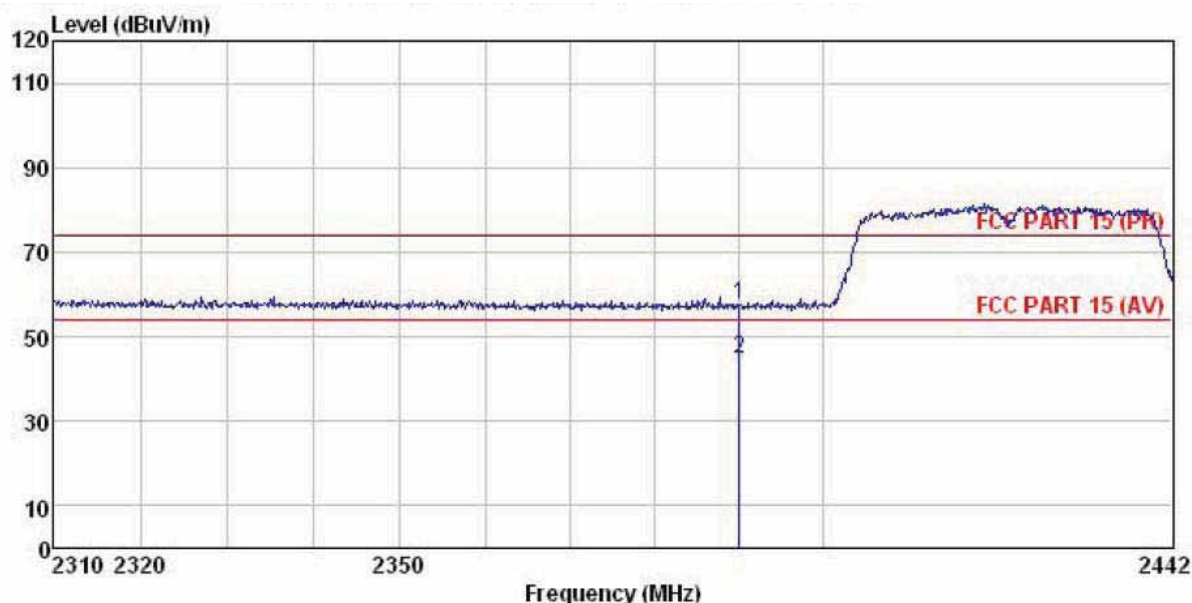
802.11n (H40)
Test channel: Lowest
Horizontal :



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : MID
Model : PC7028
Test mode : 11N40-L
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Garen
REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level	Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	23.19	27.58	5.67	0.00	56.44	74.00 -17.56 Peak
2	2390.000	11.30	27.58	5.67	0.00	44.55	54.00 -9.45 Average

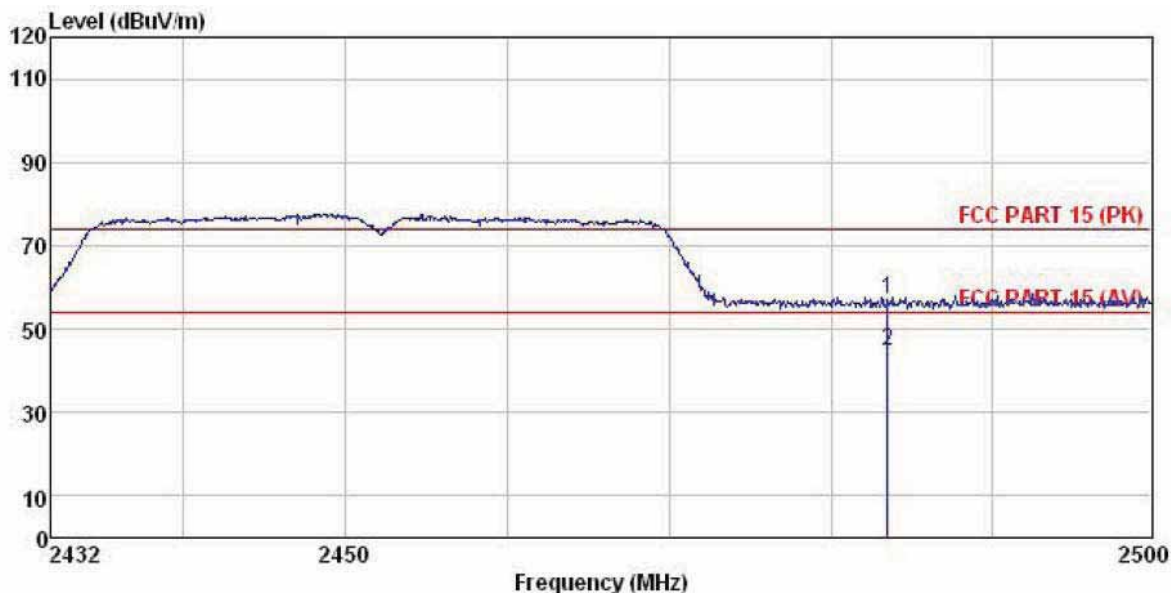
Vertical :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : 11N40-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	24.27	27.58	5.67	0.00	57.52	74.00	-16.48 Peak
2	2390.000	11.32	27.58	5.67	0.00	44.57	54.00	-9.43 Average

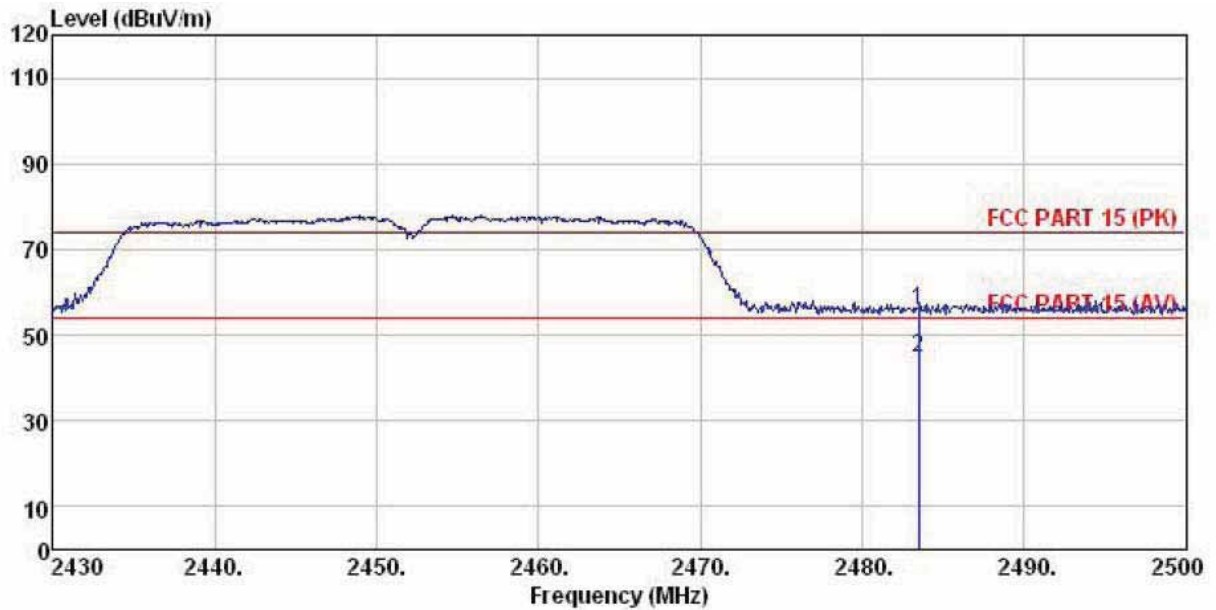
Test channel: Highest
Horizontal :



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : MID
Model : PC7028
Test mode : 11N40-H
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Garen
REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	23.74	27.52	5.70	0.00	56.96	74.00	-17.04	Peak
2	2483.500	11.33	27.52	5.70	0.00	44.55	54.00	-9.45	Average

Vertical :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : 11N40-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

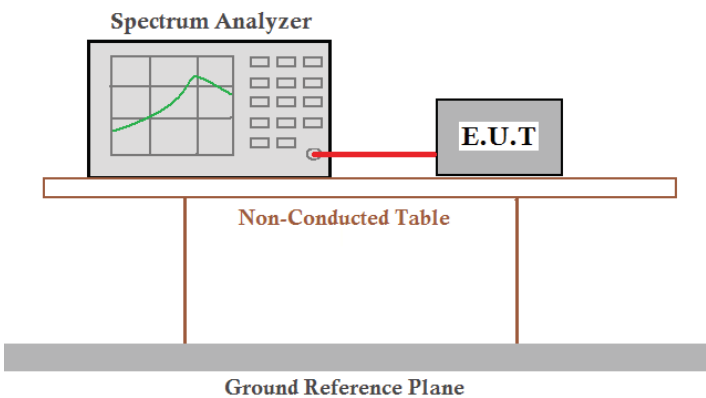
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	22.51	27.52	5.70	0.00	55.73	74.00	-18.27 Peak
2	2483.500	11.31	27.52	5.70	0.00	44.53	54.00	-9.47 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

6.7 Spurious Emission

6.7.1 Conducted Emission Method

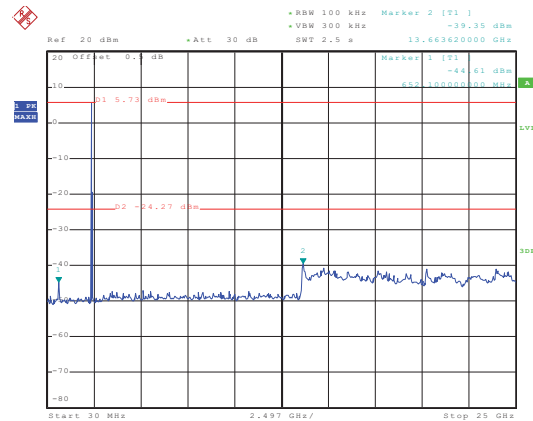
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074 v03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Conclusion : All emission outside of 2400MHz-2483.5MHz band are at least 30dB below fundamental.

Test plot as follows:

Test mode:	802.11b
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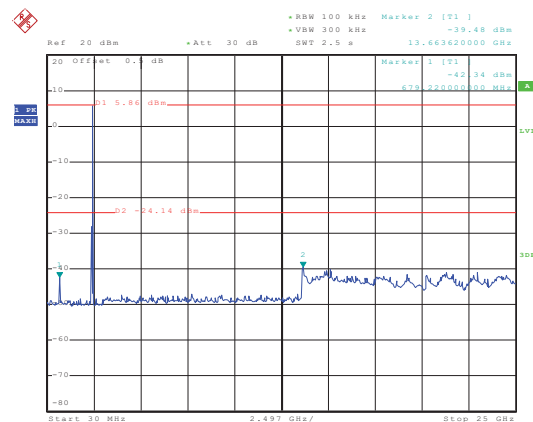
Lowest channel



Date: 23.JUL.2013 13:53:57

30MHz~25GHz

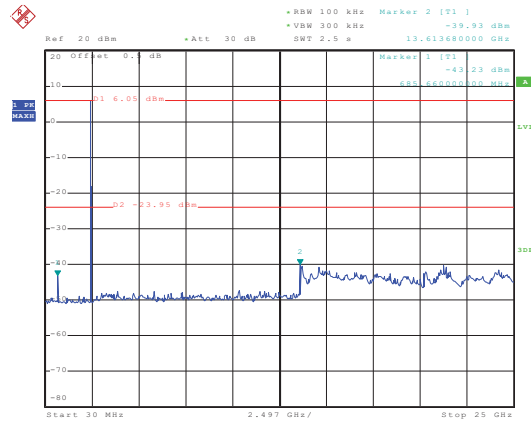
Middle channel



Date: 23.JUL.2013 14:13:33

30MHz~25GHz

Highest channel



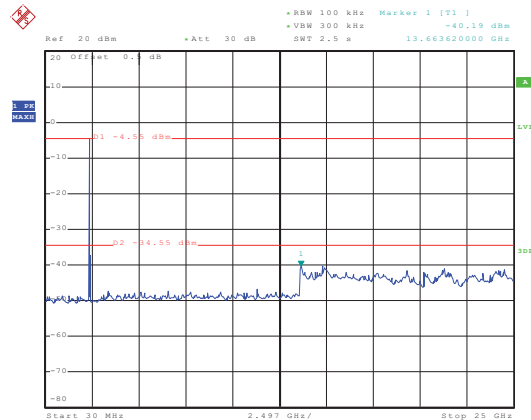
Date: 23.JUL.2013 14:20:03

30MHz~25GHz

Test mode:

802.11g

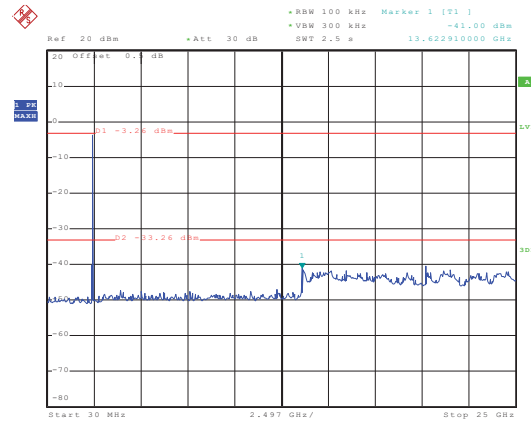
Lowest channel



Date: 23.JUL.2013 14:40:28

30MHz~25GHz

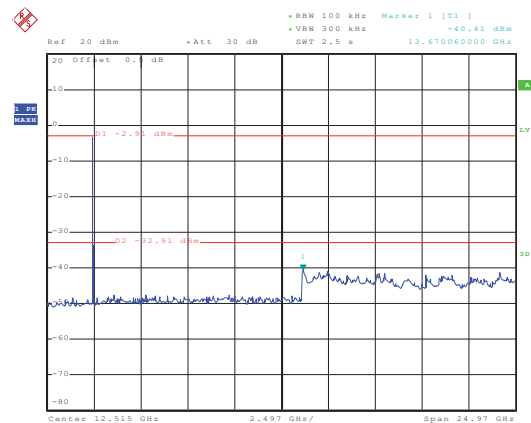
Middle channel



Date: 23.JUL.2013 14:32:13

30MHz~25GHz

Highest channel



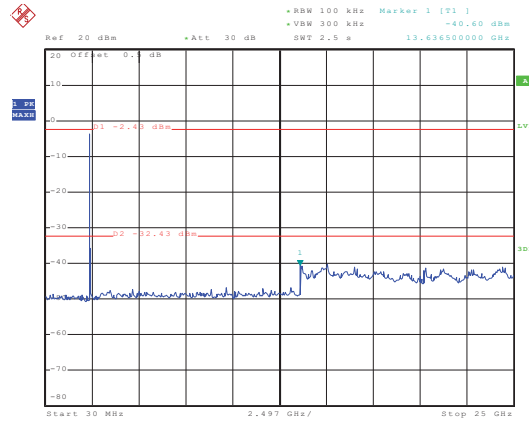
Date: 23.JUL.2013 14:28:11

30MHz~25GHz

Test mode:

802.11n(H20)

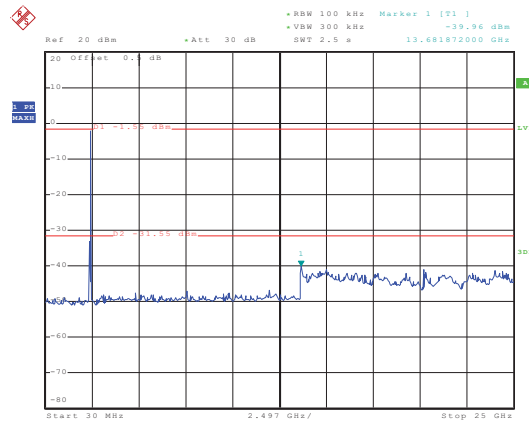
Lowest channel



Date: 23.JUL.2013 15:25:03

30MHz~25GHz

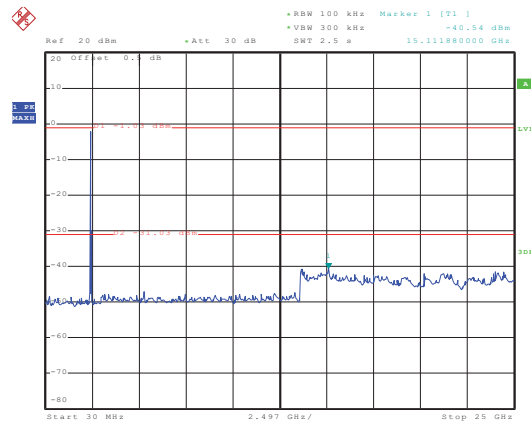
Middle channel



Date: 23.JUL.2013 15:31:00

30MHz~25GHz

Highest channel



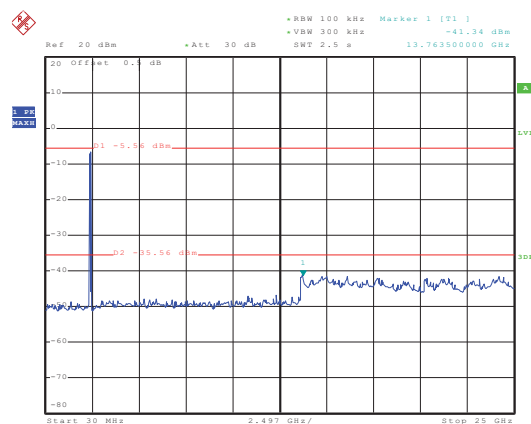
Date: 23.JUL.2013 15:34:29

30MHz~25GHz

Test mode:

802.11n(H40)

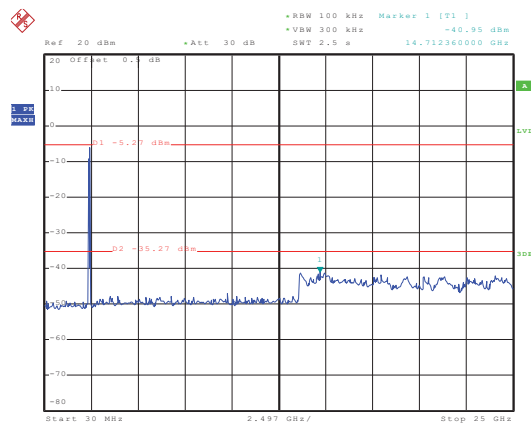
Lowest channel



Date: 23.JUL.2013 15:45:18

30MHz~25GHz

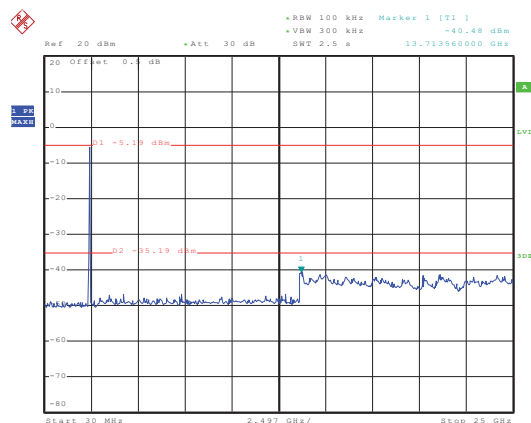
Middle channel



Date: 23.JUL.2013 15:49:40

30MHz~25GHz

Highest channel

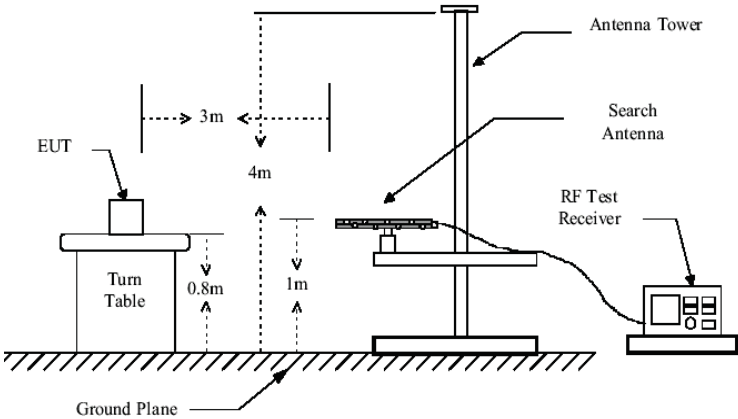
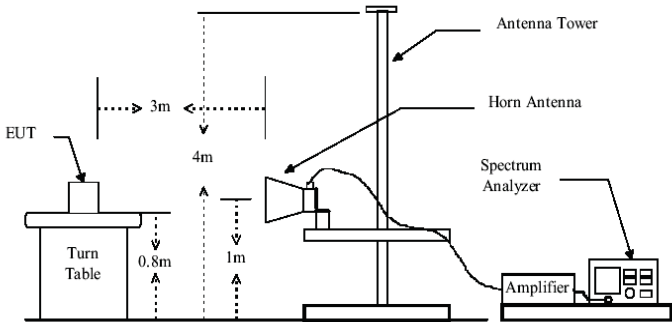


Date: 23.JUL.2013 15:54:47

30MHz~25GHz

6.7.2 Radiated Emission Method

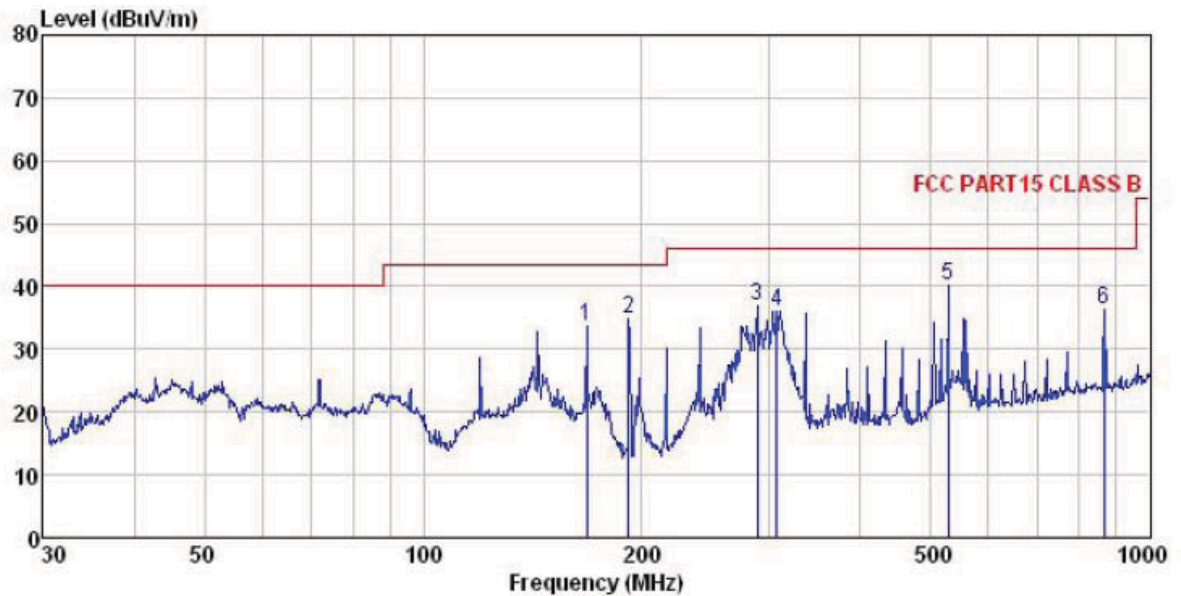
Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	9KHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:					
	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit:					
	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz	54.0		Average Value	
74.0		Peak Value			
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				

Test setup:	Below 1GHz  Above 1GHz 
Test Instruments:	Refer to section 5.6for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Remark : No emission found above 12.75GHz ,so about above 1GHz part, only show 1G to 12.75GHz plots

Below 1GHz

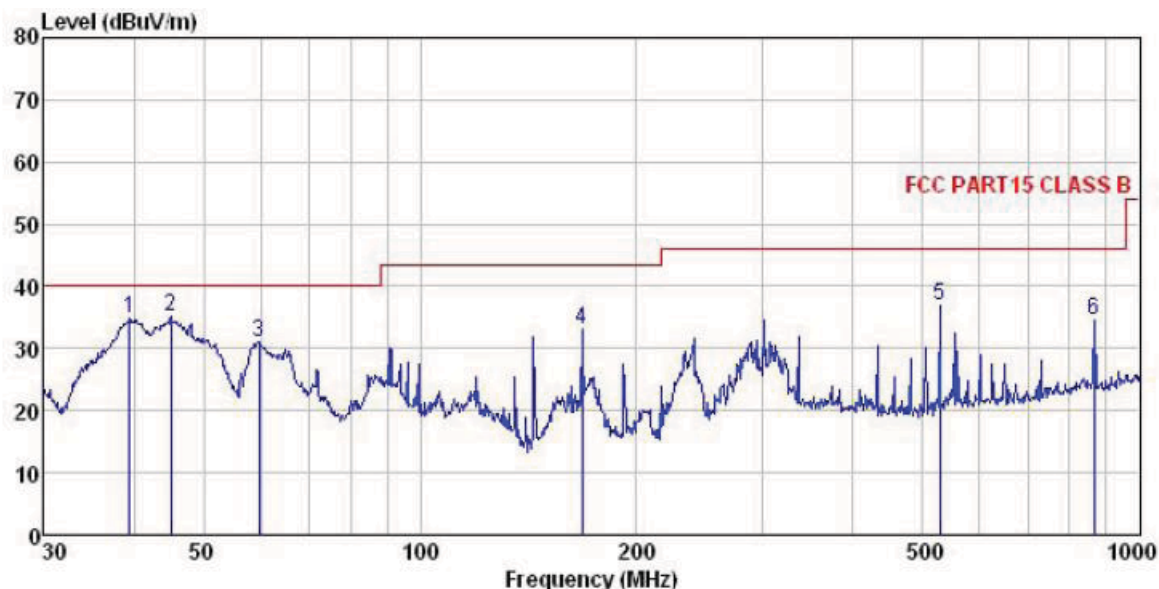
Horizontal :



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : WIFI mode
 Power Rating : AC 120V / 60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: A-bomb
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
	MHz						
1	167.824	51.26	8.90	2.64	29.01	33.79	43.50 -9.71 QP
2	191.745	51.21	10.56	2.81	29.83	34.75	43.50 -8.75 QP
3	287.990	50.60	12.84	2.91	29.47	36.88	46.00 -9.12 QP
4	306.754	49.48	13.15	2.96	29.47	36.12	46.00 -9.88 QP
5	528.246	49.83	17.15	3.77	30.53	40.22	46.00 -5.78 QP
6	866.088	41.80	20.78	4.04	30.23	36.39	46.00 -9.61 QP

Vertical :



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : WIFI mode
 Power Rating : AC 120V / 60Hz
 Environment : Temp:25.5℃ Humi:55%
 Test Engineer: A-bomb
 REMARK :

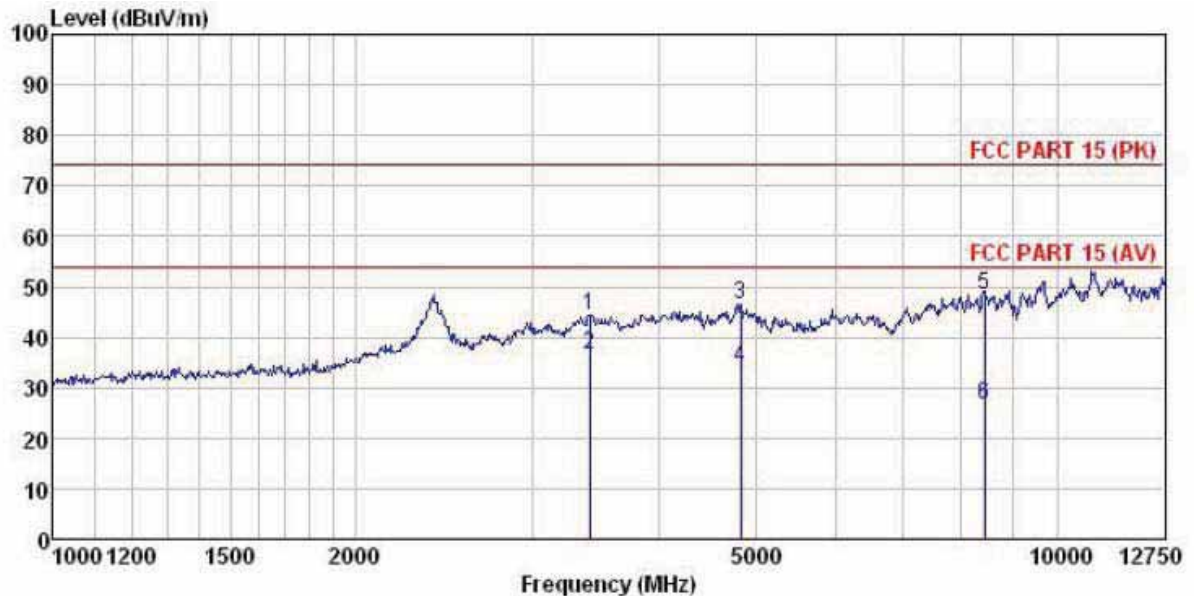
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.437	47.29	13.44	1.21	27.21	34.73	40.00	-5.27	QP
2	45.058	48.01	13.55	1.29	27.81	35.04	40.00	-4.96	QP
3	59.649	46.02	12.73	1.38	29.17	30.96	40.00	-9.04	QP
4	167.824	50.43	8.90	2.64	29.01	32.96	43.50	-10.54	QP
5	528.246	46.58	17.15	3.77	30.53	36.97	46.00	-9.03	QP
6	866.088	40.05	20.78	4.04	30.23	34.64	46.00	-11.36	QP

Above 1GHz

802.11b

Test channel: Lowest

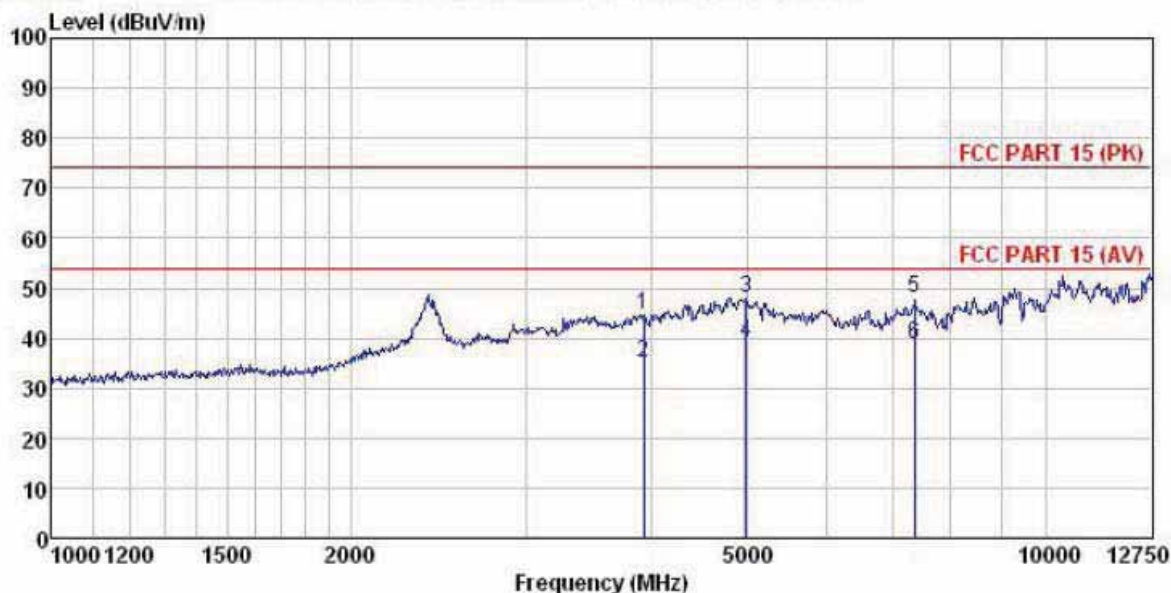
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : B-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3415.787	48.32	28.53	6.41	38.96	44.30	74.00	-29.70 Peak
2	3415.787	40.69	28.53	6.41	38.96	36.67	54.00	-17.33 Average
3	4831.962	46.39	31.55	8.92	40.22	46.64	74.00	-27.36 Peak
4	4831.962	33.54	31.55	8.92	40.22	33.79	54.00	-20.21 Average
5	8440.945	40.00	36.48	13.15	41.42	48.21	74.00	-25.79 Peak
6	8440.945	18.24	36.48	13.15	41.42	26.45	54.00	-27.55 Average

Vertical :

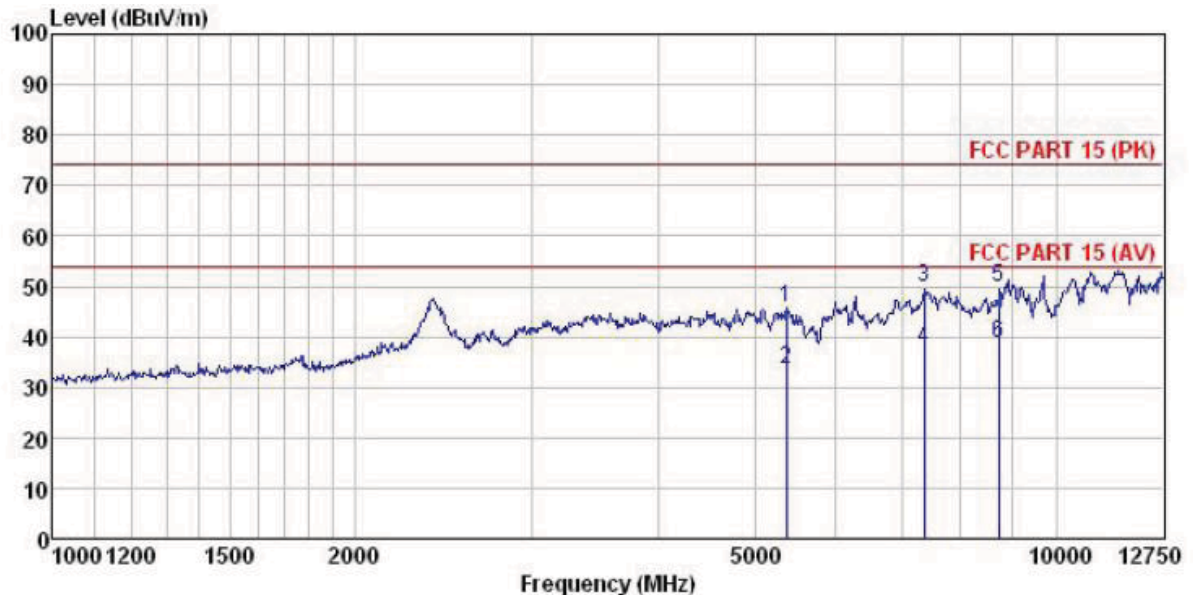


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : B-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp			Limit	Over	
		Level Factor	Loss Factor	Level		Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3935.493	48.43	29.78	7.60	40.99	44.82	74.00	-29.18 Peak
2	3935.493	38.66	29.78	7.60	40.99	35.05	54.00	-18.95 Average
3	4988.058	47.21	31.79	9.12	39.98	48.14	74.00	-25.86 Peak
4	4988.058	38.33	31.79	9.12	39.98	39.26	54.00	-14.74 Average
5	7368.741	41.80	36.49	10.74	41.11	47.92	74.00	-26.08 Peak
6	7368.741	32.65	36.49	10.74	41.11	38.77	54.00	-15.23 Average

Test channel: Middle

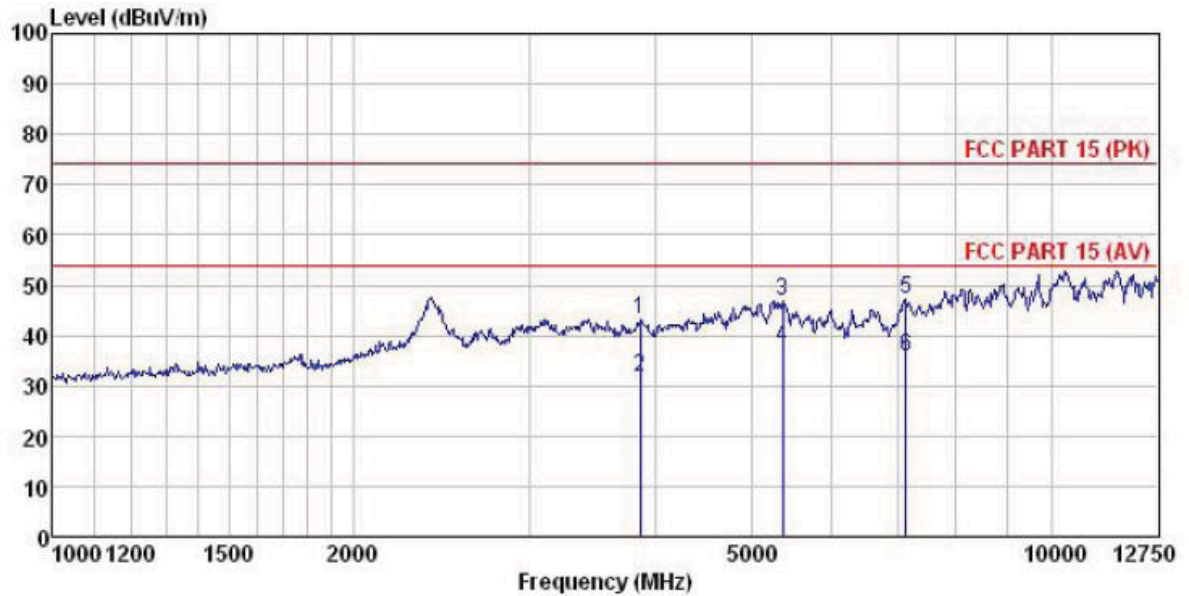
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : B-M
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	5377.354	45.01	31.84	9.15	40.19	45.81	74.00
2	5377.354	32.63	31.84	9.15	40.19	33.43	54.00
3	7368.741	43.82	36.49	10.74	41.11	49.94	74.00
4	7368.741	31.36	36.49	10.74	41.11	37.48	54.00
5	8738.852	40.79	36.96	13.58	41.35	49.98	74.00
6	8738.852	29.64	36.96	13.58	41.35	38.83	54.00

Vertical :

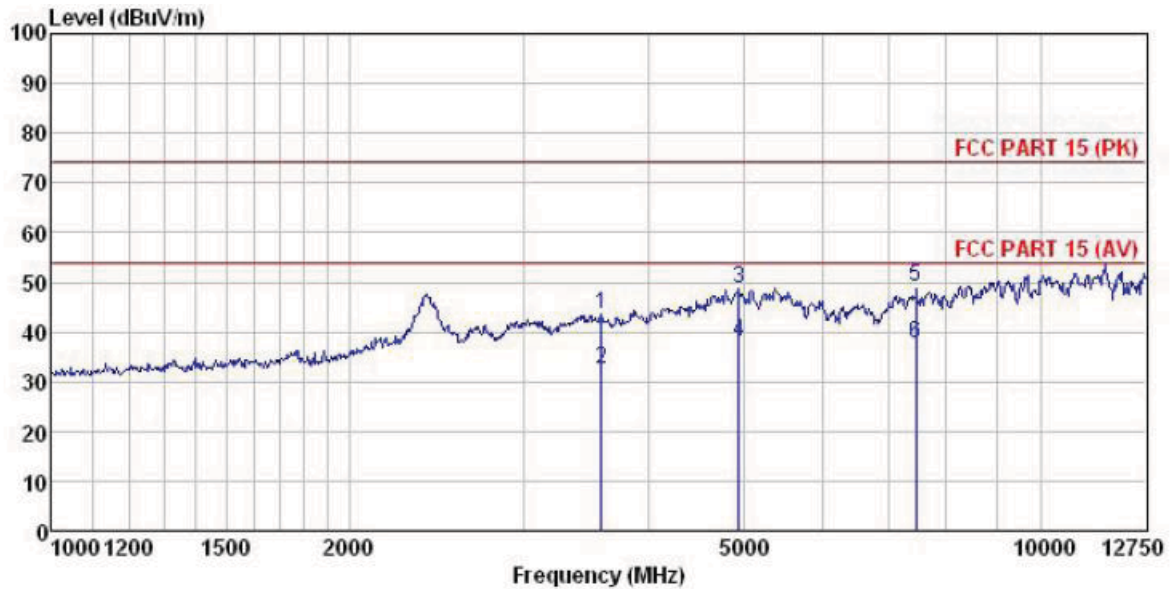


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : B-M
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3867.831	46.76	29.70	7.55	40.79	43.22	74.00	-30.78 Peak
2	3867.831	35.24	29.70	7.55	40.79	31.70	54.00	-22.30 Average
3	5377.354	46.01	31.84	9.15	40.19	46.81	74.00	-27.19 Peak
4	5377.354	36.66	31.84	9.15	40.19	37.46	54.00	-16.54 Average
5	7138.144	41.72	36.23	10.53	41.30	47.18	74.00	-26.82 Peak
6	7138.144	30.25	36.23	10.53	41.30	35.71	54.00	-18.29 Average

Test channel: Highest

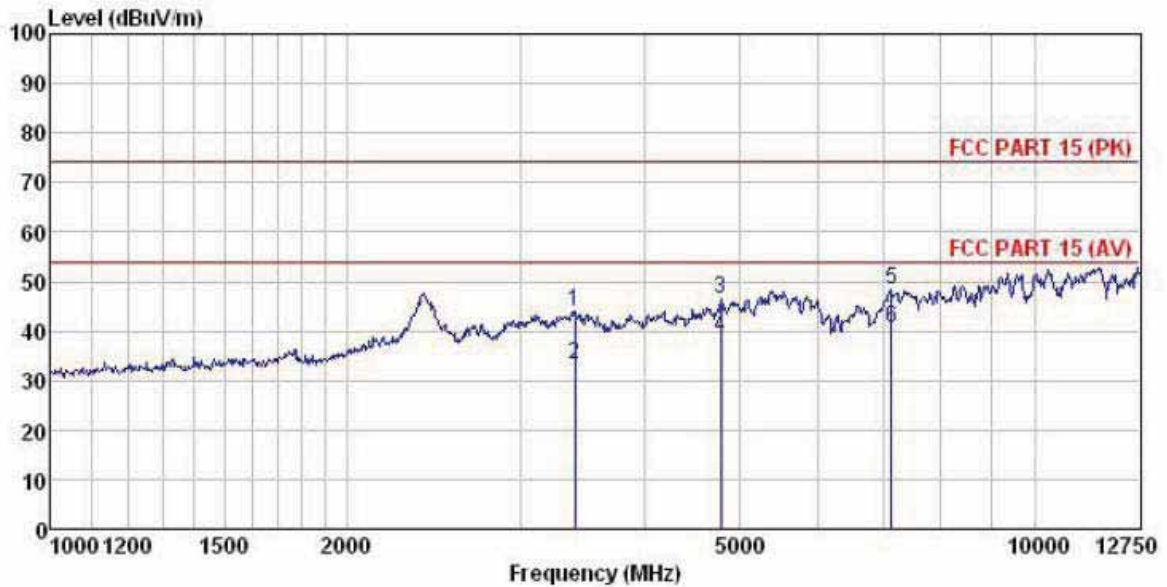
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : B-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3587.818	48.55	29.16	6.13	40.21	43.63	74.00	-30.37 Peak
2	3587.818	37.22	29.16	6.13	40.21	32.30	54.00	-21.70 Average
3	4944.993	48.08	31.64	9.06	40.05	48.73	74.00	-25.27 Peak
4	4944.993	37.35	31.64	9.06	40.05	38.00	54.00	-16.00 Average
5	7454.429	42.74	36.63	10.81	41.04	49.14	74.00	-24.86 Peak
6	7454.429	31.23	36.63	10.81	41.04	37.63	54.00	-16.37 Average

Vertical :



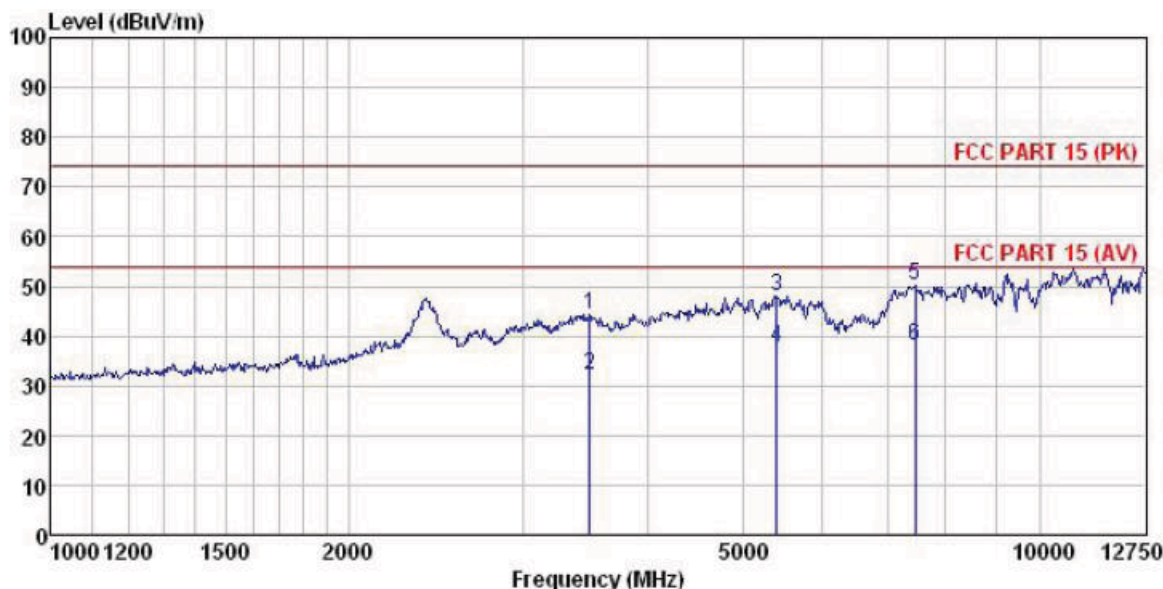
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : B-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3405.929	47.91	28.46	6.41	38.96	43.82	74.00	-30.18	Peak
2	3405.929	37.45	28.46	6.41	38.96	33.36	54.00	-20.64	Average
3	4790.245	46.41	31.50	8.88	40.27	46.52	74.00	-27.48	Peak
4	4790.245	38.74	31.50	8.88	40.27	38.85	54.00	-15.15	Average
5	7138.144	42.72	36.23	10.53	41.30	48.18	74.00	-25.82	Peak
6	7138.144	35.12	36.23	10.53	41.30	40.58	54.00	-13.42	Average

802.11g

Test channel: Lowest

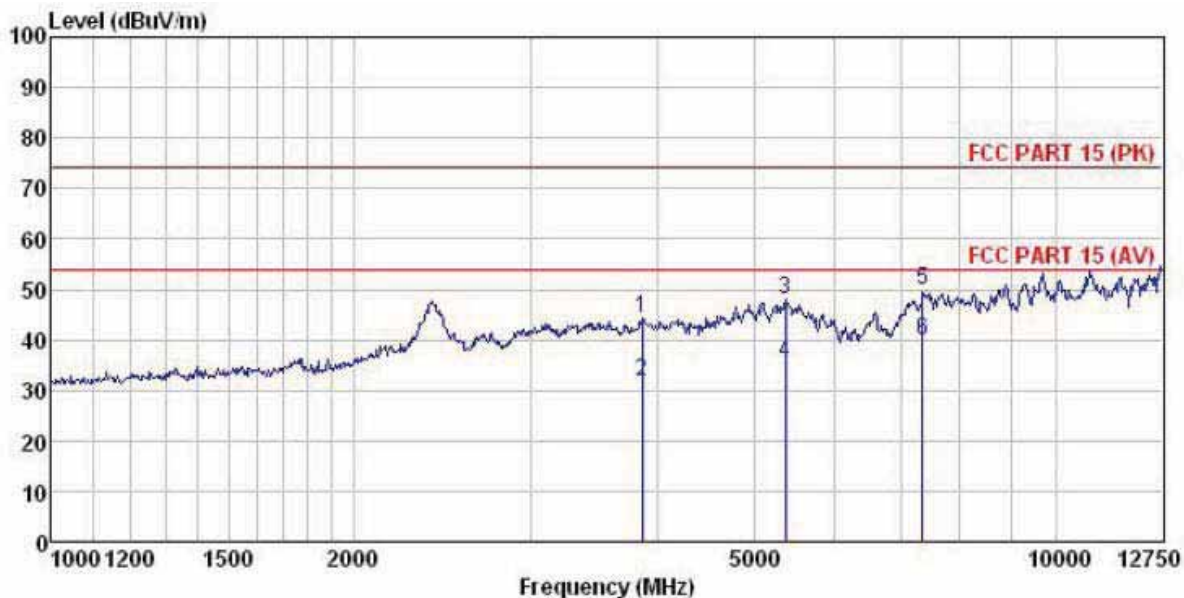
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : G-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3495.691	48.77	28.86	6.27	39.58	44.32	74.00	-29.68 Peak
2	3495.691	36.63	28.86	6.27	39.58	32.18	54.00	-21.82 Average
3	5408.529	47.24	31.87	9.15	40.20	48.06	74.00	-25.94 Peak
4	5408.529	36.81	31.87	9.15	40.20	37.63	54.00	-16.37 Average
5	7454.429	43.74	36.63	10.81	41.04	50.14	74.00	-23.86 Peak
6	7454.429	31.69	36.63	10.81	41.04	38.09	54.00	-15.91 Average

Vertical :

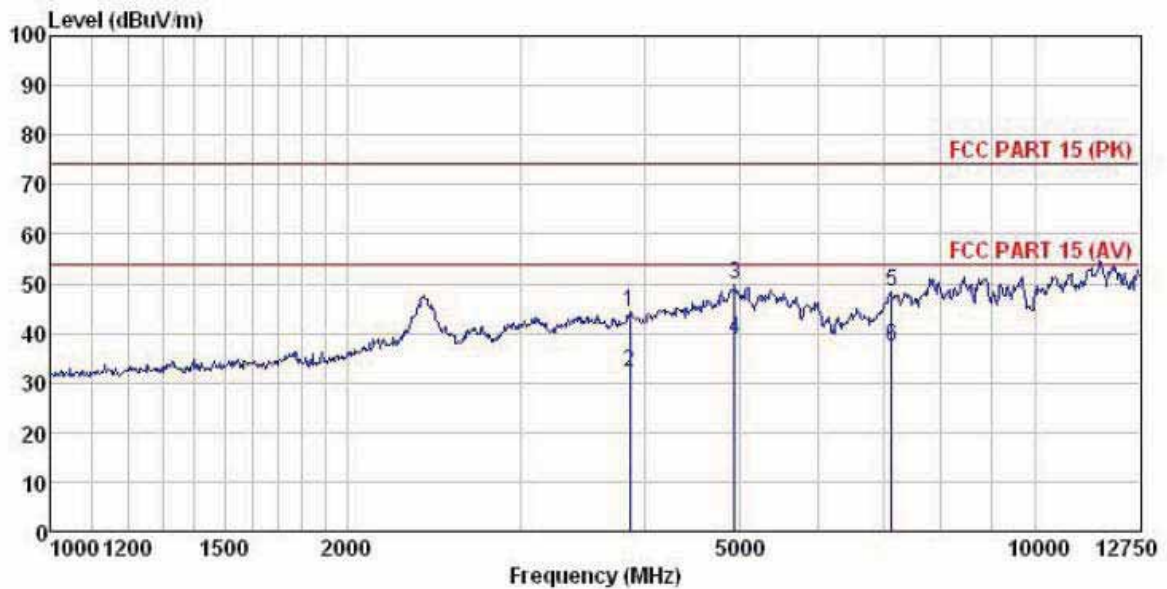


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : G-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp	Limit	Over	
	Level	Factor	Loss Factor	Level	Line	Remark
	dBm	dB	dB	dB	dB	
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m
1	3867.831	47.76	29.70	7.55	40.79	44.22
2	3867.831	35.24	29.70	7.55	40.79	31.70
3	5377.354	47.01	31.84	9.15	40.19	47.81
4	5377.354	34.69	31.84	9.15	40.19	35.49
5	7347.474	43.83	36.47	10.71	41.13	49.88
6	7347.474	33.98	36.47	10.71	41.13	40.03

Test channel: Middle

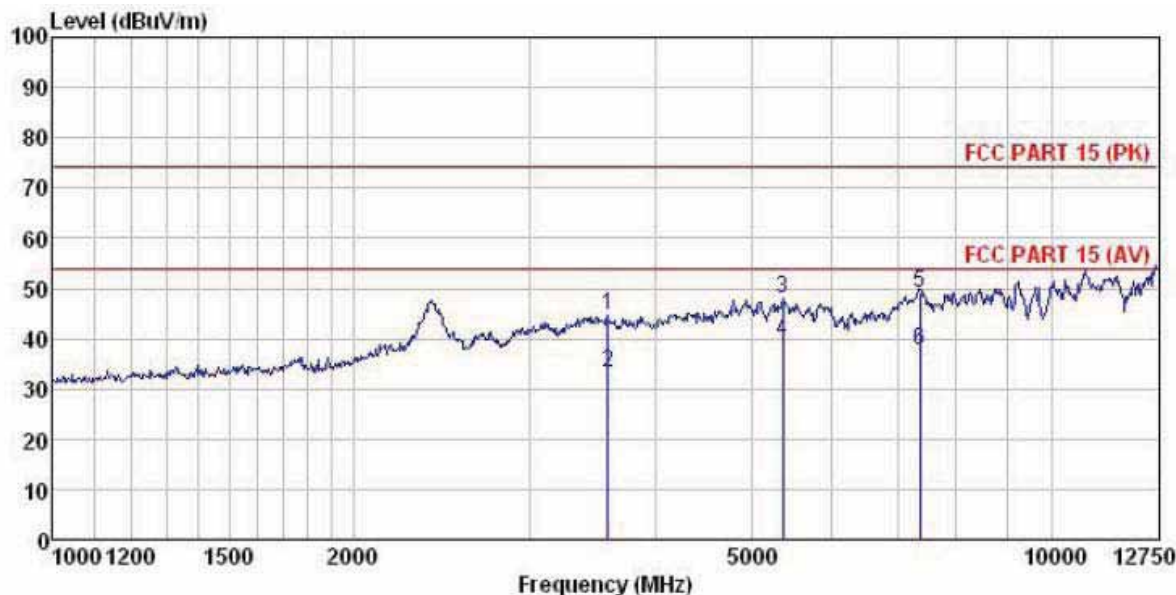
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : G-M
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp	Limit	Over	
	Level	Factor	Loss Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m
1	3867.831	47.76	29.70	7.55	40.79	44.22
2	3867.831	35.79	29.70	7.55	40.79	32.25
3	4944.993	49.08	31.64	9.06	40.05	49.73
4	4944.993	38.20	31.64	9.06	40.05	38.85
5	7138.144	42.72	36.23	10.53	41.30	48.18
6	7138.144	31.98	36.23	10.53	41.30	37.44

Vertical :

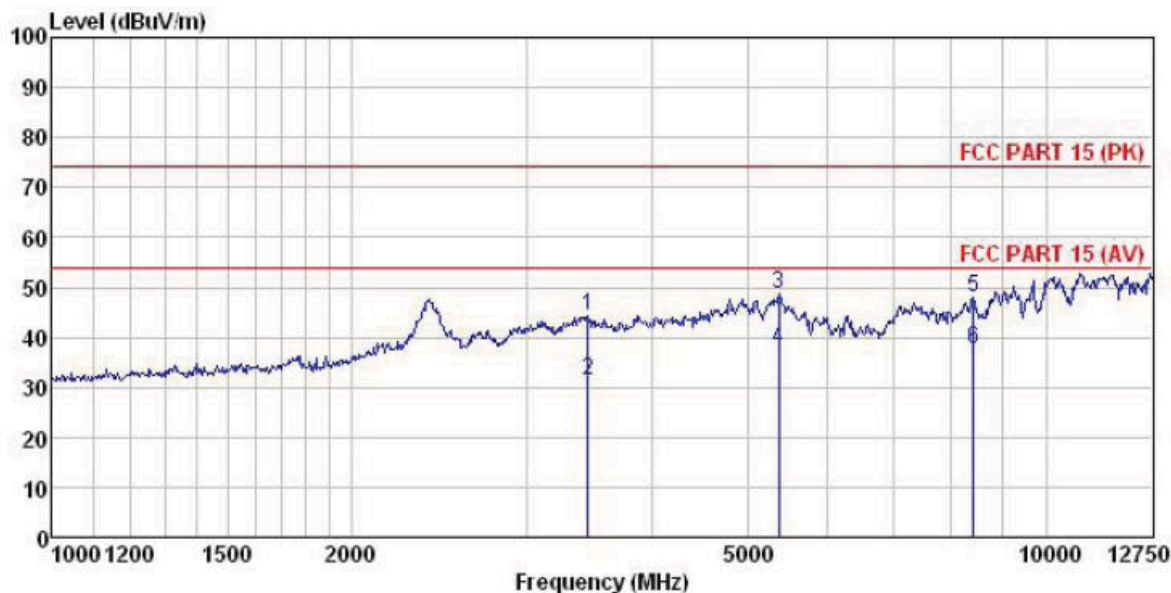


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : G-M
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	3587.818	49.55	29.16	6.13	40.21	44.63	74.00
2	3587.818	37.95	29.16	6.13	40.21	33.03	54.00
3	5377.354	47.01	31.84	9.15	40.19	47.81	74.00
4	5377.354	38.63	31.84	9.15	40.19	39.43	54.00
5	7368.741	42.82	36.49	10.74	41.11	48.94	74.00
6	7368.741	31.58	36.49	10.74	41.11	37.70	54.00

Test channel: Highest

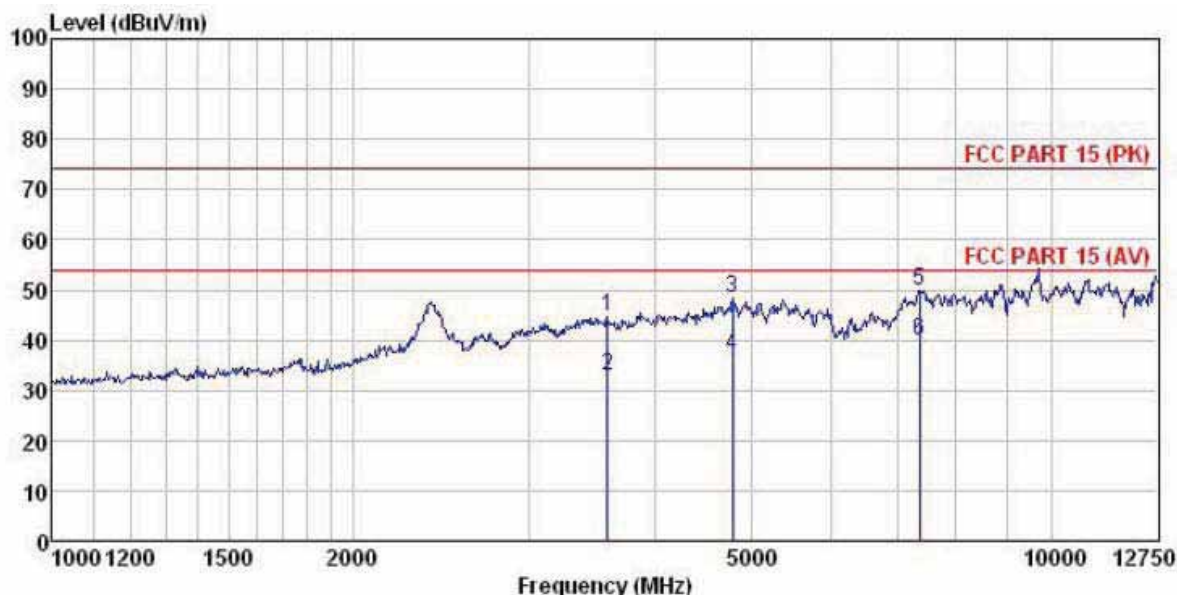
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : G-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp	Limit	Over	
	Level	Factor	Loss Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m
1	3455.508	48.41	28.67	6.36	39.21	44.23
2	3455.508	35.67	28.67	6.36	39.21	31.49
3	5377.354	48.01	31.84	9.15	40.19	48.81
4	5377.354	36.65	31.84	9.15	40.19	37.45
5	8416.584	40.06	36.43	12.99	41.39	48.09
6	8416.584	29.66	36.43	12.99	41.39	37.69

Vertical :



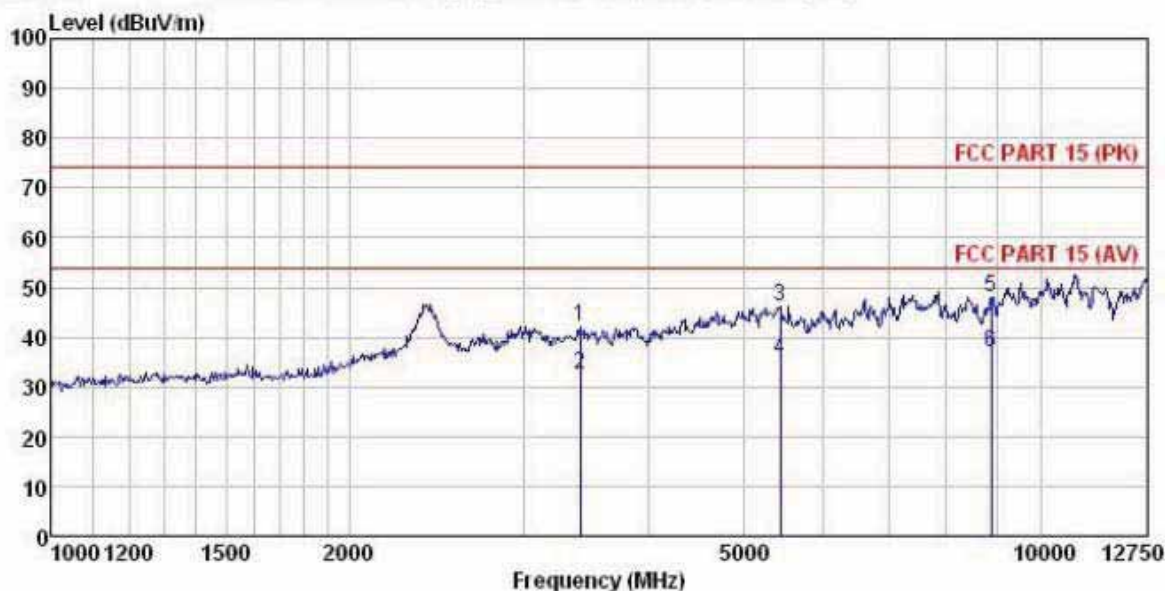
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : G-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	3587.818	49.55	29.16	6.13	40.21	44.63	74.00 -29.37 Peak
2	3587.818	37.66	29.16	6.13	40.21	32.74	54.00 -21.26 Average
3	4790.245	48.41	31.50	8.88	40.27	48.52	74.00 -25.48 Peak
4	4790.245	36.88	31.50	8.88	40.27	36.99	54.00 -17.01 Average
5	7368.741	43.82	36.49	10.74	41.11	49.94	74.00 -24.06 Peak
6	7368.741	33.65	36.49	10.74	41.11	39.77	54.00 -14.23 Average

802.11n(H20)

Test channel: Lowest

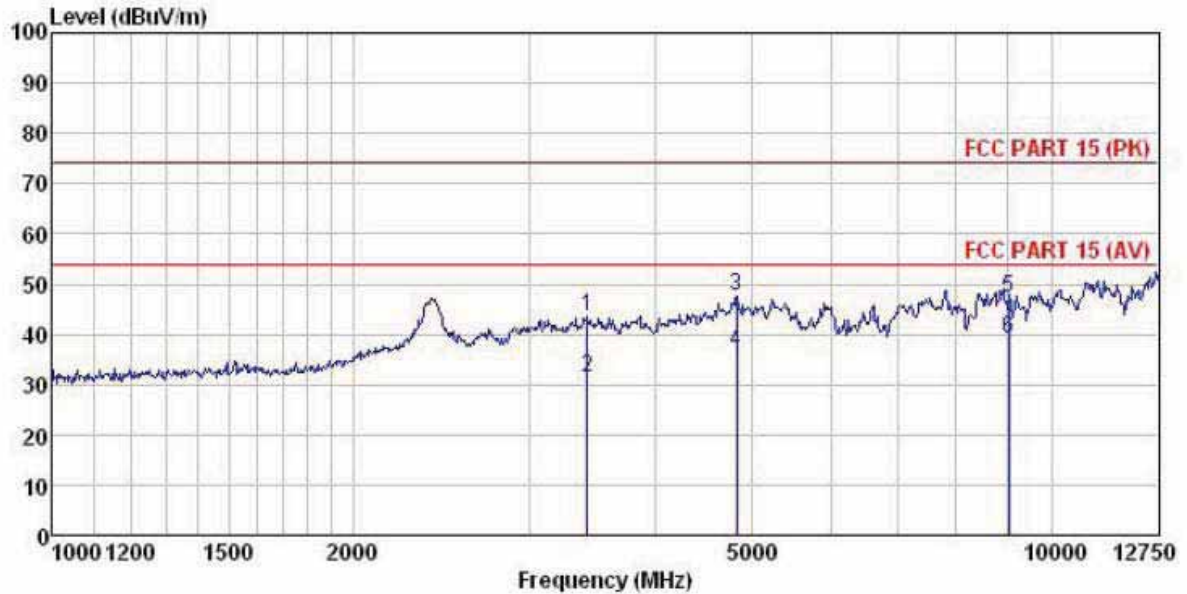
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : N20-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5'C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3415.787	46.22	28.53	6.41	38.96	42.20	74.00	-31.80	Peak
2	3415.787	36.56	28.53	6.41	38.96	32.54	54.00	-21.46	Average
3	5439.885	45.36	31.95	9.15	40.22	46.24	74.00	-27.76	Peak
4	5439.885	34.51	31.95	9.15	40.22	35.39	54.00	-18.61	Average
5	8891.725	38.83	36.91	13.69	41.28	48.15	74.00	-25.85	Peak
6	8891.725	27.42	36.91	13.69	41.28	36.74	54.00	-17.26	Average

Vertical :

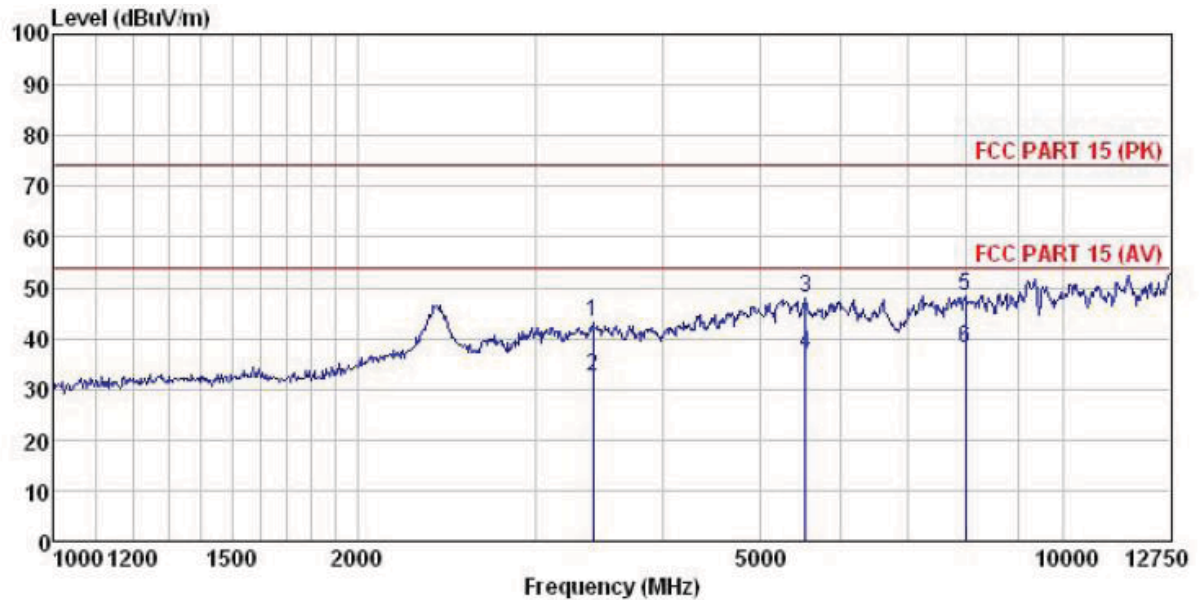


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : N20-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	ReadAntenna	Cable Preamp		Limit	Over	
Freq	Level	Factor	Loss Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m dB
1	3425.675	47.58	28.53	6.38	39.09	43.40 74.00 -30.60 Peak
2	3425.675	35.65	28.53	6.38	39.09	31.47 54.00 -22.53 Average
3	4831.962	47.30	31.55	8.92	40.22	47.55 74.00 -26.45 Peak
4	4831.962	36.23	31.55	8.92	40.22	36.48 54.00 -17.52 Average
5	9047.272	37.60	36.96	13.73	41.22	47.07 74.00 -26.93 Peak
6	9047.272	29.63	36.96	13.73	41.22	39.10 54.00 -14.90 Average

Test channel: Middle

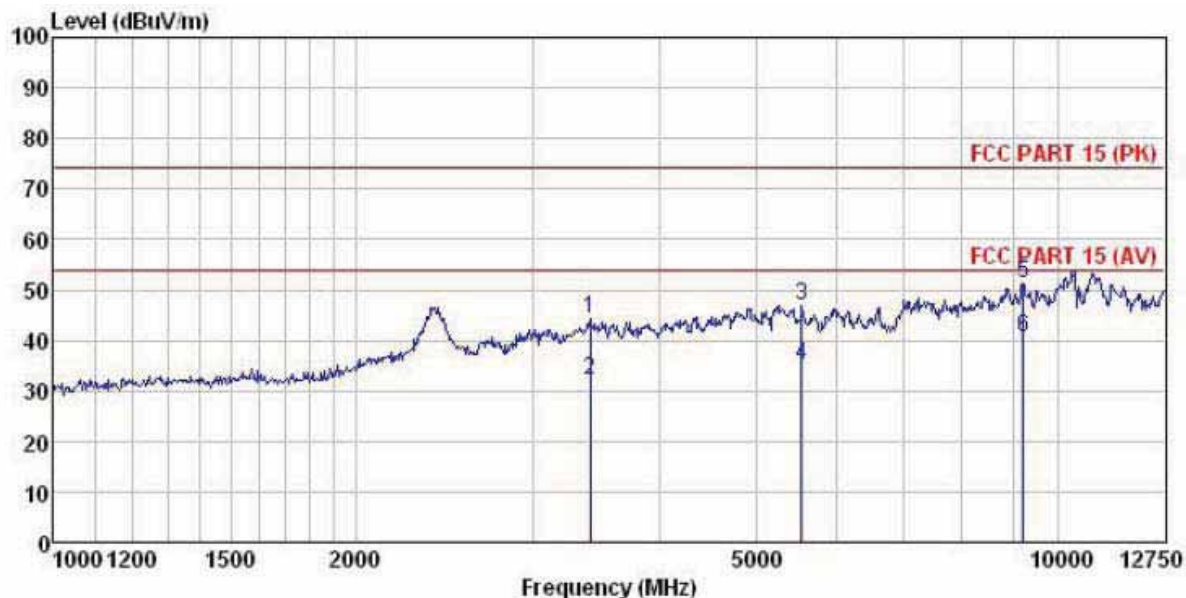
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : N20-M
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level	Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	3415.787	47.22	28.53	6.41	38.96	43.20	74.00 -30.80 Peak
2	3415.787	36.54	28.53	6.41	38.96	32.52	54.00 -21.48 Average
3	5551.069	47.03	32.09	9.19	40.32	47.99	74.00 -26.01 Peak
4	5551.069	36.02	32.09	9.19	40.32	36.98	54.00 -17.02 Average
5	7989.893	41.28	37.20	11.01	40.99	48.50	74.00 -25.50 Peak
6	7989.893	30.70	37.20	11.01	40.99	37.92	54.00 -16.08 Average

Vertical :

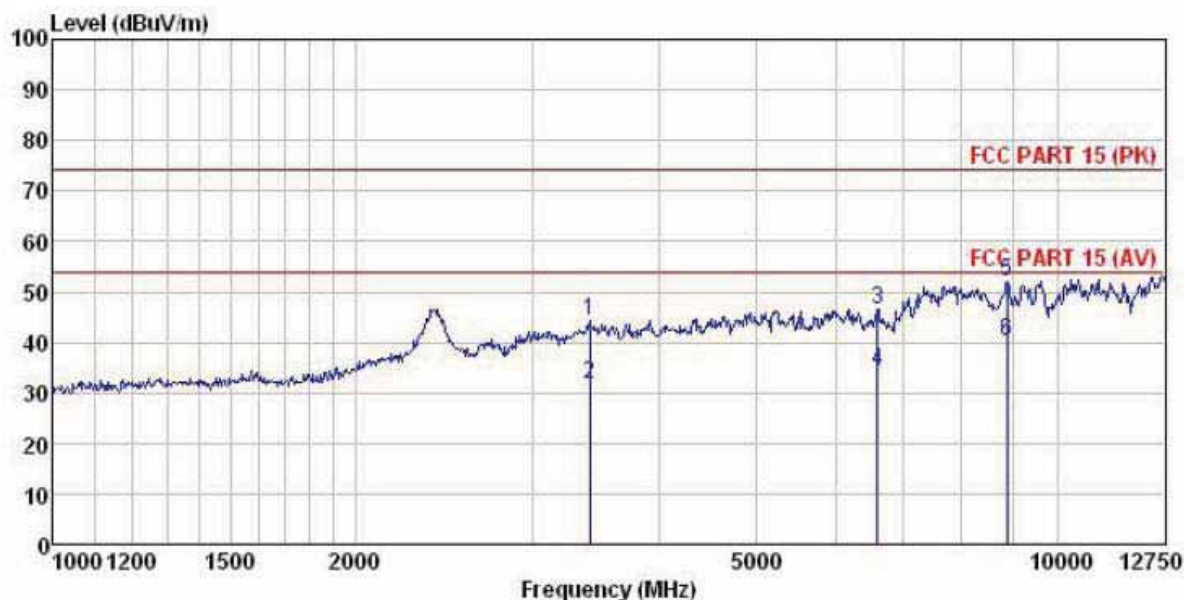


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : N20-M
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level	Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	3415.787	48.22	28.53	6.41	38.96	44.20	74.00 -29.80 Peak
2	3415.787	36.25	28.53	6.41	38.96	32.23	54.00 -21.77 Average
3	5551.069	46.03	32.09	9.19	40.32	46.99	74.00 -27.01 Peak
4	5551.069	34.15	32.09	9.19	40.32	35.11	54.00 -18.89 Average
5	9205.540	41.27	37.67	13.47	41.22	51.19	74.00 -22.81 Peak
6	9205.540	30.58	37.67	13.47	41.22	40.50	54.00 -13.50 Average

Test channel: Highest

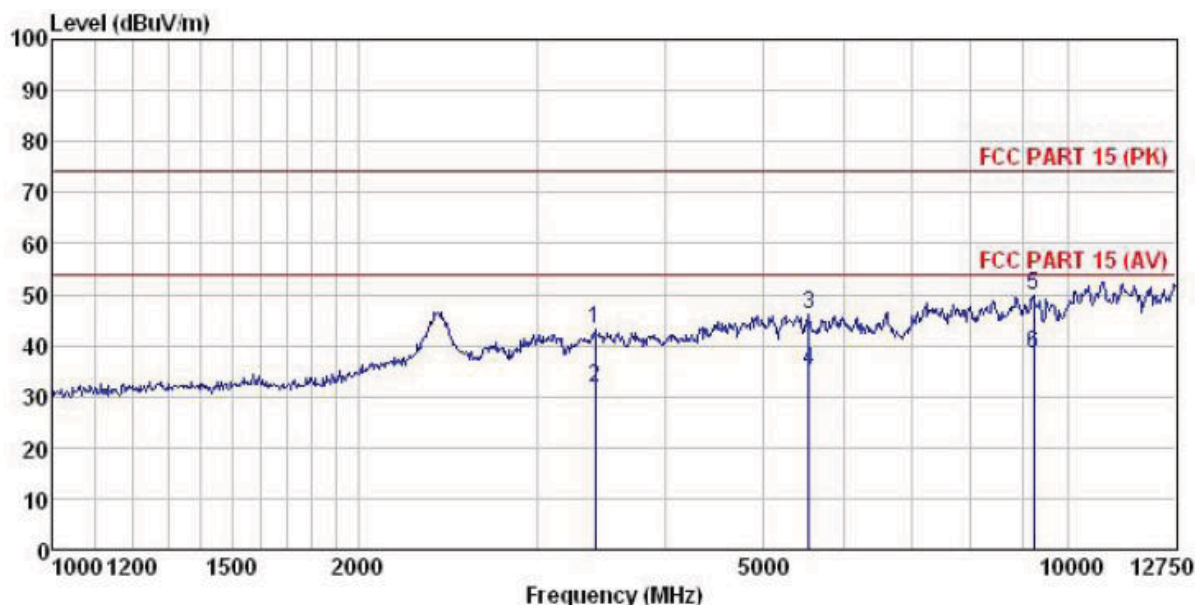
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : N20-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3415.787	48.22	28.53	6.41	38.96	44.20	74.00	-29.80	Peak
2	3415.787	35.65	28.53	6.41	38.96	31.63	54.00	-22.37	Average
3	6602.265	42.93	34.58	10.38	41.23	46.66	74.00	-27.34	Peak
4	6602.265	30.68	34.58	10.38	41.23	34.41	54.00	-19.59	Average
5	8891.725	42.83	36.91	13.69	41.28	52.15	74.00	-21.85	Peak
6	8891.725	30.86	36.91	13.69	41.28	40.18	54.00	-13.82	Average

Vertical :



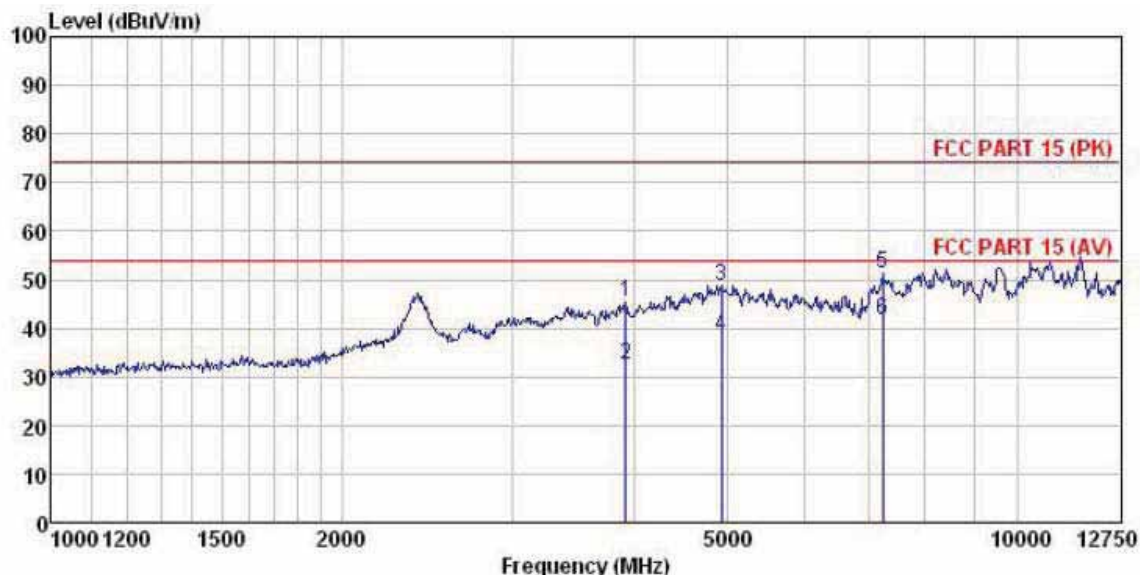
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : N20-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3415.787	47.22	28.53	6.41	38.96	43.20	74.00	-30.80	Peak
2	3415.787	35.76	28.53	6.41	38.96	31.74	54.00	-22.26	Average
3	5551.069	45.03	32.09	9.19	40.32	45.99	74.00	-28.01	Peak
4	5551.069	34.22	32.09	9.19	40.32	35.18	54.00	-18.82	Average
5	9232.187	39.97	37.73	13.45	41.22	49.93	74.00	-24.07	Peak
6	9232.187	28.24	37.73	13.45	41.22	38.20	54.00	-15.80	Average

802.11n(H40)

Test channel: Lowest

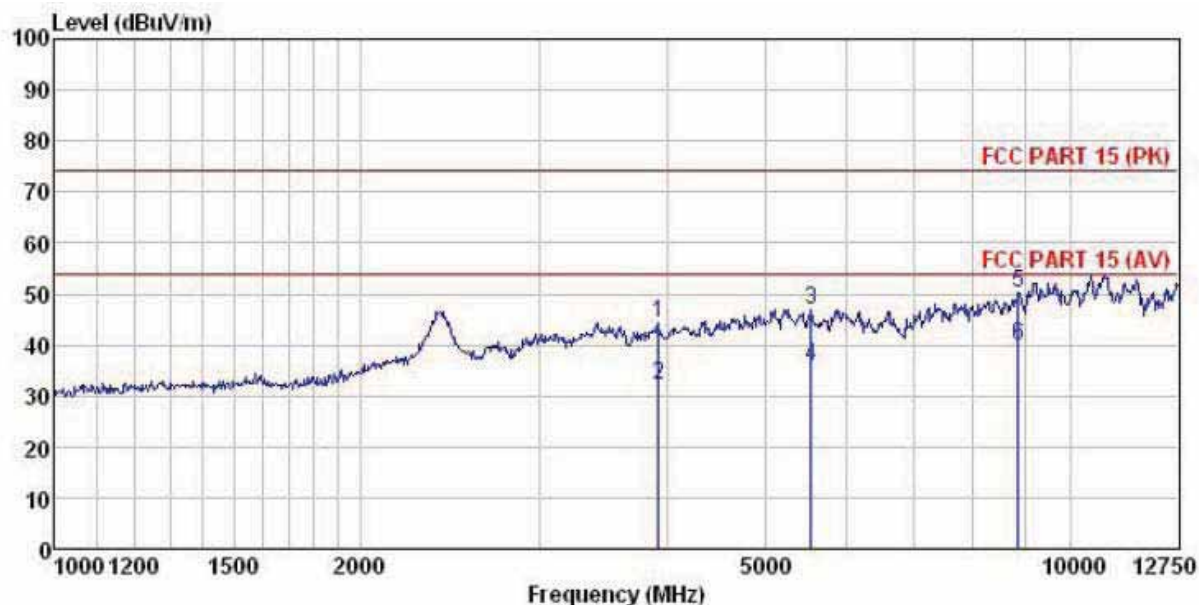
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : N40-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

		ReadAntenna	Cable Preamp			Limit	Over	
Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3924.135	48.77	29.78	7.59	40.94	45.20	74.00	-28.80 Peak
2	3924.135	36.13	29.78	7.59	40.94	32.56	54.00	-21.44 Average
3	4930.721	48.27	31.61	9.04	40.08	48.84	74.00	-25.16 Peak
4	4930.721	37.92	31.61	9.04	40.08	38.49	54.00	-15.51 Average
5	7242.052	45.38	36.50	10.62	41.22	51.28	74.00	-22.72 Peak
6	7242.052	35.97	36.50	10.62	41.22	41.87	54.00	-12.13 Average

Vertical :

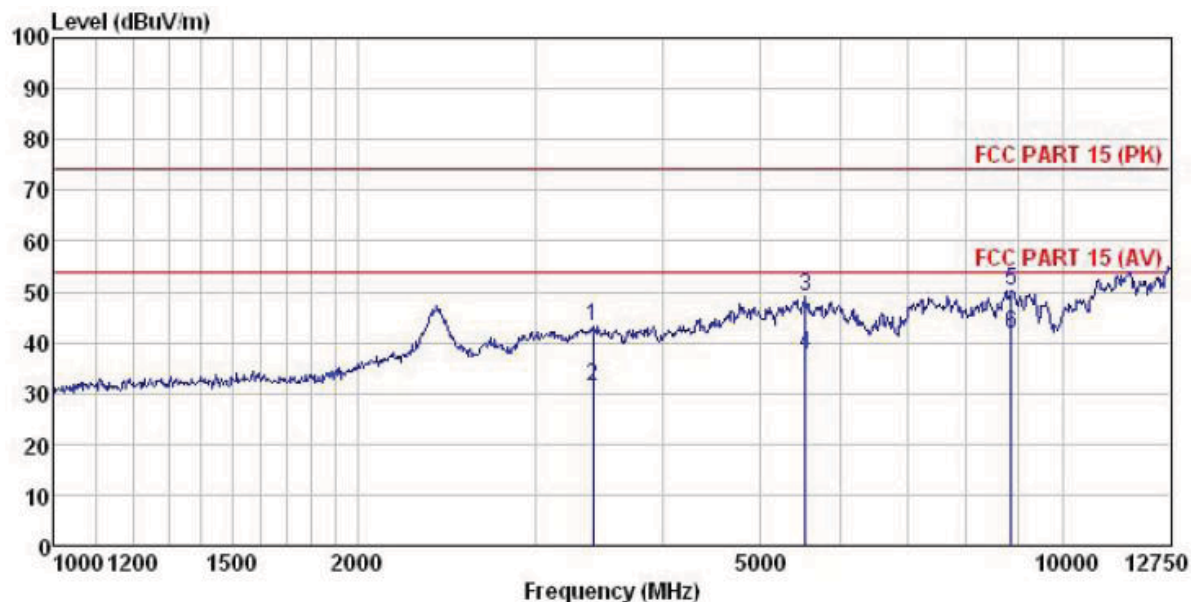


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : N40-L
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
		dBuV	dB/m	dB	dB			dB	
1	3924.135	47.77	29.78	7.59	40.94	44.20	74.00	-29.80	Peak
2	3924.135	35.52	29.78	7.59	40.94	31.95	54.00	-22.05	Average
3	5551.069	46.03	32.09	9.19	40.32	46.99	74.00	-27.01	Peak
4	5551.069	34.76	32.09	9.19	40.32	35.72	54.00	-18.28	Average
5	8866.062	41.03	36.93	13.68	41.29	50.35	74.00	-23.65	Peak
6	8866.062	30.64	36.93	13.68	41.29	39.96	54.00	-14.04	Average

Test channel: Middle

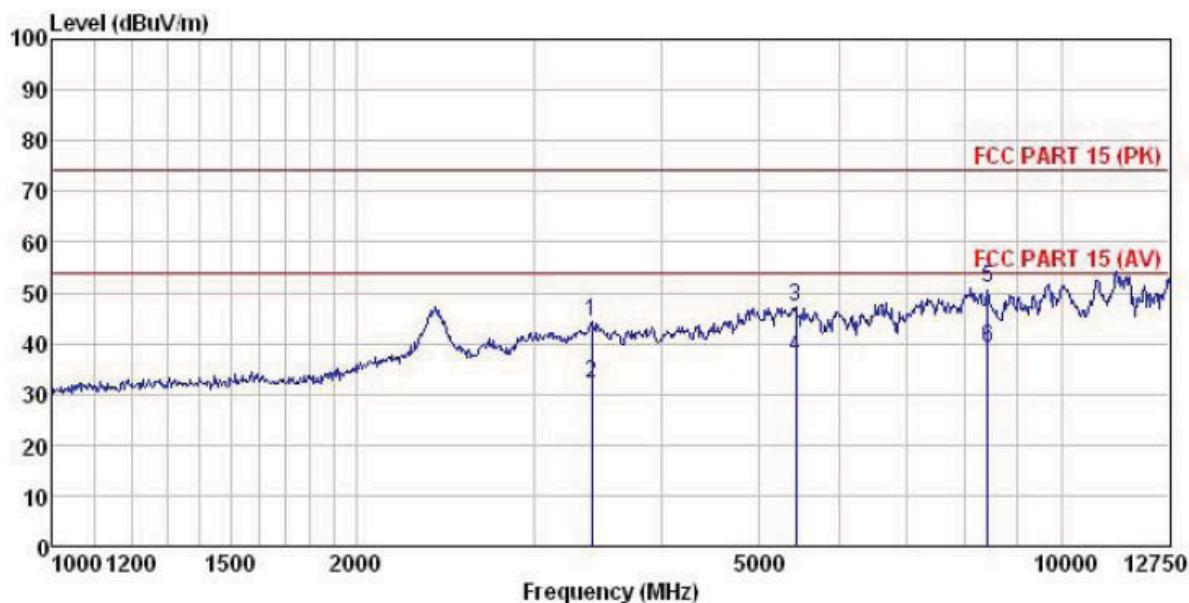
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : N40-M
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3415.787	47.22	28.53	6.41	38.96	43.20	74.00	-30.80	Peak
2	3415.787	35.31	28.53	6.41	38.96	31.29	54.00	-22.71	Average
3	5551.069	48.03	32.09	9.19	40.32	48.99	74.00	-25.01	Peak
4	5551.069	36.56	32.09	9.19	40.32	37.52	54.00	-16.48	Average
5	8866.062	41.03	36.93	13.68	41.29	50.35	74.00	-23.65	Peak
6	8866.062	32.33	36.93	13.68	41.29	41.65	54.00	-12.35	Average

Vertical :

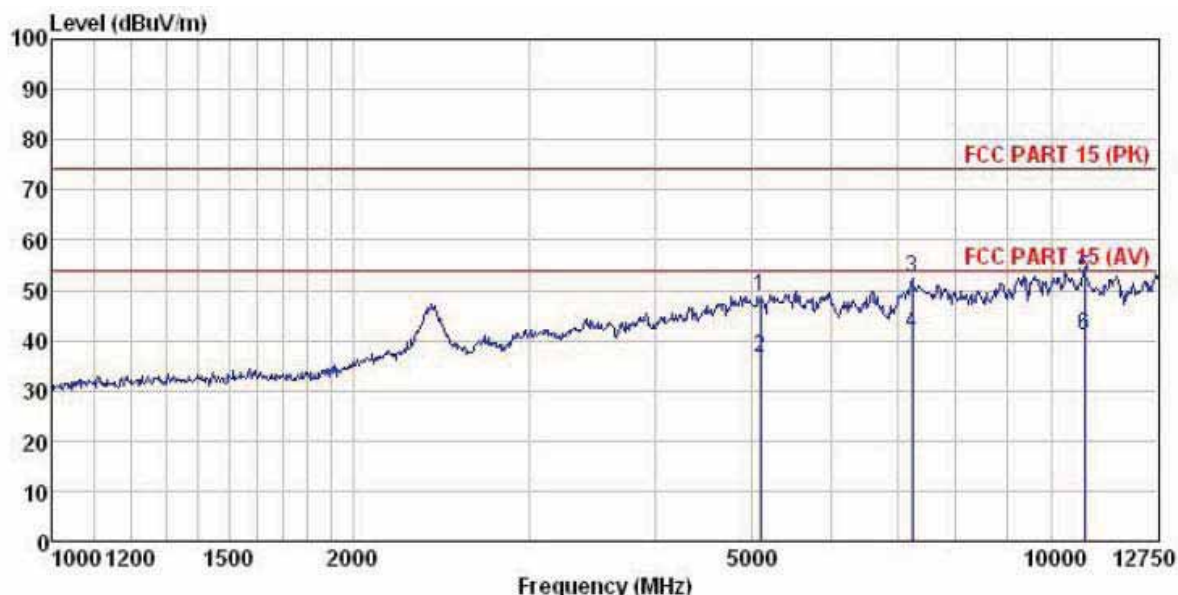


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : N40-M
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level	Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	3415.787	48.22	28.53	6.41	38.96	44.20	74.00 -29.80 Peak
2	3415.787	36.29	28.53	6.41	38.96	32.27	54.00 -21.73 Average
3	5439.885	46.36	31.95	9.15	40.22	47.24	74.00 -26.76 Peak
4	5439.885	36.33	31.95	9.15	40.22	37.21	54.00 -16.79 Average
5	8416.584	42.85	36.43	12.99	41.39	50.88	74.00 -23.12 Peak
6	8416.584	31.26	36.43	12.99	41.39	39.29	54.00 -14.71 Average

Test channel: Highest

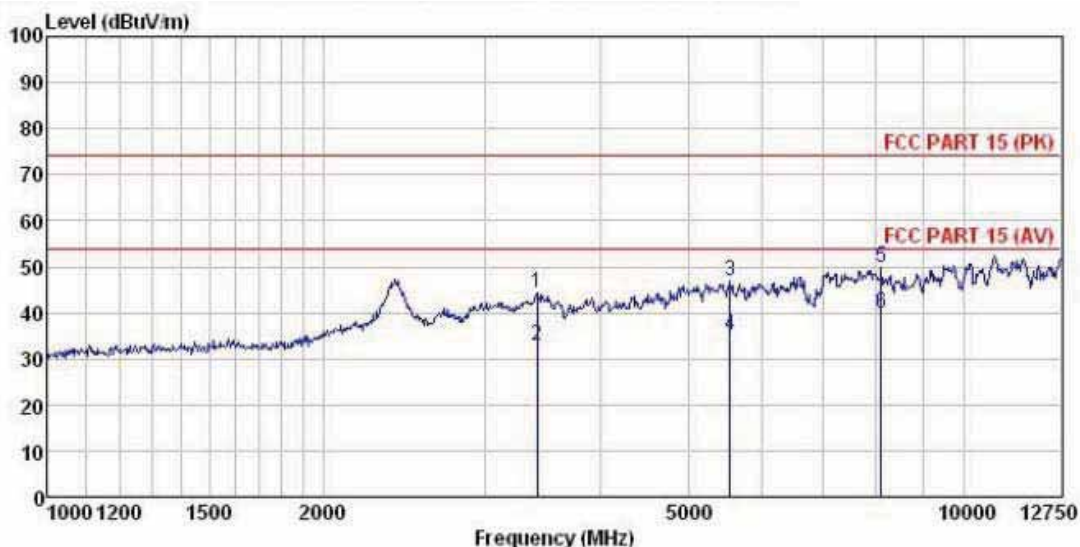
Horizontal :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : MID
 Model : PC7028
 Test mode : N40-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
	Level Factor	Loss Factor	Factor	Line	Limit	Remark		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5104.741	47.69	32.11	9.13	40.04	48.89	74.00	-25.11 Peak
2	5104.741	35.33	32.11	9.13	40.04	36.53	54.00	-17.47 Average
3	7242.052	46.38	36.50	10.62	41.22	52.28	74.00	-21.72 Peak
4	7242.052	35.26	36.50	10.62	41.22	41.16	54.00	-12.84 Average
5	10760.540	39.54	39.87	13.74	40.57	52.58	74.00	-21.42 Peak
6	10760.540	27.92	39.87	13.74	40.57	40.96	54.00	-13.04 Average

Vertical :



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : MID
 Model : PC7028
 Test mode : N40-H
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Garen
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	3415.787	48.22	28.53	6.41	38.96	44.20	74.00
2	3415.787	36.76	28.53	6.41	38.96	32.74	54.00
3	5551.069	46.03	32.09	9.19	40.32	46.99	74.00
4	5551.069	34.25	32.09	9.19	40.32	35.21	54.00
5	8106.200	42.30	37.08	11.51	41.09	49.80	74.00
6	8106.200	32.27	37.08	11.51	41.09	39.77	54.00