



Shenzhen EBO Technology Co., Ltd.

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Report No.: EBO1702041-E112
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FCC Report (WIFI)

Applicant: EKEN GROUP LIMITED

Address of Applicant: Room 2511-2512, Meilan Business Center, Qianjin Two Road, XiXiang, Baoan District, ShenZhen, China

Equipment Under Test (EUT)

Product Name: ACTION CAMERA

Model No.: Pano360 Pro, Pano360, Pano360 se

FCC ID: 2ADDG-PANO360

Applicable standards: FCC CFR Title 47 Part 15 Subpart C :2016

Date of sample receipt: February 16, 2017

Date of Test: February 16, 2017 To March 09.2017

Date of report issued: March 09.2017

Test Result : PASS *

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

Authorized Signature:

Kevin Yu
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 EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	March 09.2017	Original

Prepared By:

Project Engineer

Date:

March 09.2017

Check By:

Reviewer

Date:

March 09.2017

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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
Channel 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.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(1)

Note (1): The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.



5 General Information

5.1 Client Information

Applicant:	EKEN GROUP LIMITED
Address of Applicant:	Room 2511-2512, Meilan Business Center, Qianjin Two Road, XiXiang, Baoan District, ShenZhen, China
Manufacturer/ Factory:	EKEN GROUP LIMITED
Address of Manufacturer/ Factory:	Room 2511-2512, Meilan Business Center, Qianjin Two Road, XiXiang, Baoan District, ShenZhen, China

5.2 General Description of EUT

Product Name:	ACTION CAMERA
Model No.:	Pano360 Pro, Pano360, Pano360 se
Test Model:	Pano360 Pro
<i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is the model name and battery capacity for commercial purpose.</i>	
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40): 7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(H40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral antenna
Antenna gain:	2.0dBi
Power supply:	DC 3.7V 2*650mAh battery or DC 5V/1.5A Power adapter: MODEL: ZXT-051500E INPUT: AC 100-240V,50/60Hz,0.4A OUTPUT: DC 5V/1.5A



Operation Frequency each of channel							
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		

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:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

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	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.4 Description of Support Units

None.



5.5 Test Facility

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

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, June 22, 2016.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



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	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017
10	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017
11	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017
12	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017
16	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017
17	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017
18	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017
5	Coaxial Cable	GTS	N/A	GTS227	June. 29 2016	June. 28 2017
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017


General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	June 29 2016	June 28 2017

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7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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.	
15.247(c) (1)(i) requirement: (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.	
E.U.T Antenna: The antenna is PCB antenna, the best case gain of the antenna is 2.0dBi	
	



7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2013																
Test Frequency Range:	150KHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																
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> <p>* Decreases with the logarithm of the frequency.</p>			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 setup:	<div><p style="text-align: center;">Reference Plane</p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>																
Test procedure:	<div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>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).</div><div>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 C63.10:2013 on conducted measurement.</div></div>																
Test Instruments:	Refer to section 6.0 for details																
Test mode:	Refer to section 5.3 for details																
Test results:	Pass																

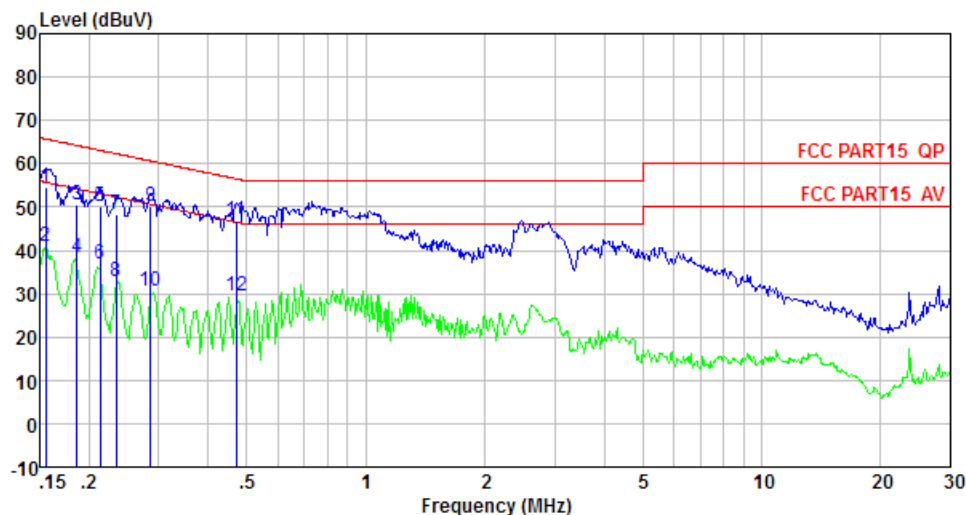


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Measurement data

Test mode	WIFI mode	Polarization	Line
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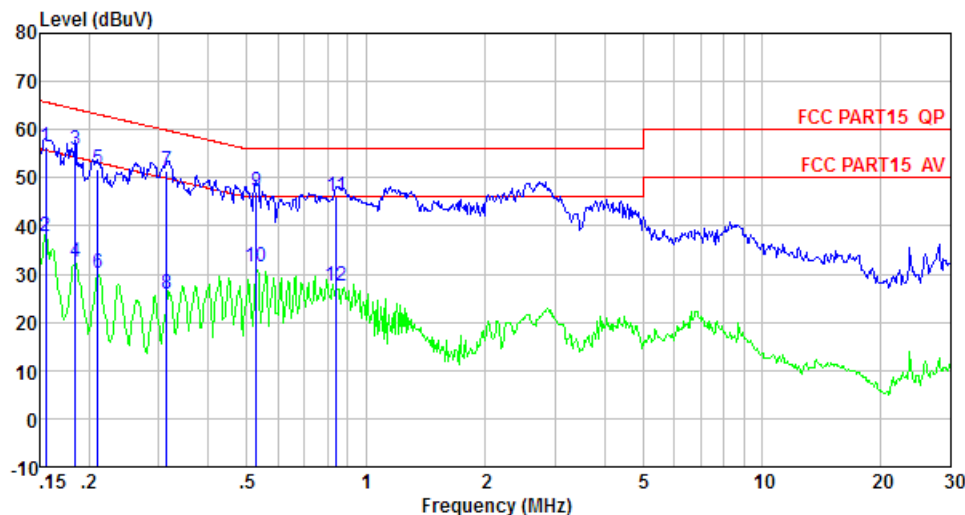


Freq MHz	Reading level dBuV	LIISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.156	53.88	0.42	0.12	54.42	65.69	-11.27	QP
0.156	40.42	0.42	0.12	40.96	55.69	-14.73	Average
0.186	50.13	0.42	0.13	50.68	64.20	-13.52	QP
0.186	37.68	0.42	0.13	38.23	54.20	-15.97	Average
0.213	49.76	0.43	0.13	50.32	63.10	-12.78	QP
0.213	36.31	0.43	0.13	36.87	53.10	-16.23	Average
0.234	47.63	0.43	0.12	48.18	62.30	-14.12	QP
0.234	32.18	0.43	0.12	32.73	52.30	-19.57	Average
0.286	49.53	0.44	0.10	50.07	60.63	-10.56	QP
0.286	30.07	0.44	0.10	30.61	50.63	-20.02	Average
0.471	46.42	0.39	0.11	46.92	56.49	-9.57	QP
0.471	28.92	0.39	0.11	29.42	46.49	-17.07	Average

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Test mode	WIFI mode	Polarization	Neutral
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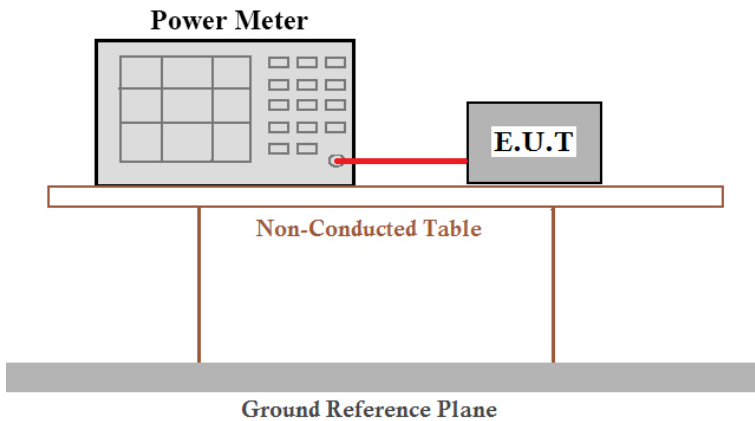
Freq MHz	Reading level dBuV	LISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.156	55.93	0.41	0.12	56.46	65.69	-9.23	QP
0.156	37.46	0.41	0.12	37.99	55.69	-17.70	Average
0.184	55.29	0.41	0.13	55.83	64.28	-8.45	QP
0.184	31.83	0.41	0.13	32.37	54.28	-21.91	Average
0.211	51.12	0.41	0.13	51.66	63.18	-11.52	QP
0.211	29.67	0.41	0.13	30.21	53.18	-22.97	Average
0.313	50.95	0.42	0.10	51.47	59.88	-8.41	QP
0.313	25.47	0.42	0.10	25.99	49.88	-23.89	Average
0.529	46.59	0.33	0.11	47.03	56.00	-8.97	QP
0.529	31.03	0.33	0.11	31.47	46.00	-14.53	Average
0.844	45.85	0.22	0.13	46.20	56.00	-9.80	QP
0.844	27.21	0.22	0.13	27.56	46.00	-18.44	Average

Notes:

1. An initial pre-scan was performed on the line 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
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Conducted Peak Output Power

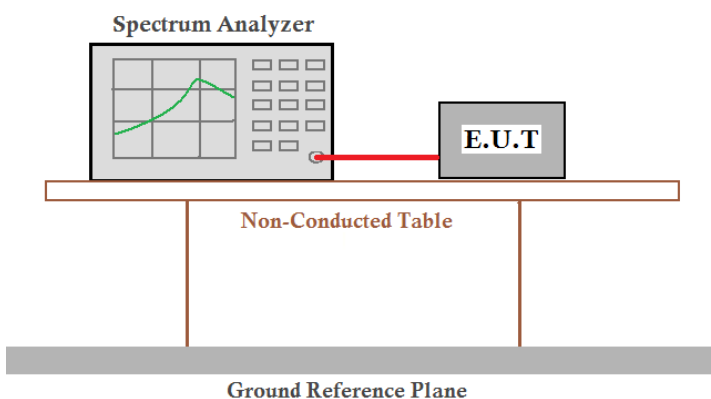
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	8.11	7.40	7.56	7.55	30.00	Pass
Middle	8.73	7.81	7.63	7.55		
Highest	8.35	7.88	7.79	7.71		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	8.580	16.598	17.809	36.539	>500	Pass
Middle	8.631	16.598	17.759	36.541		
Highest	8.592	16.607	17.806	36.547		

Test plot as follows:

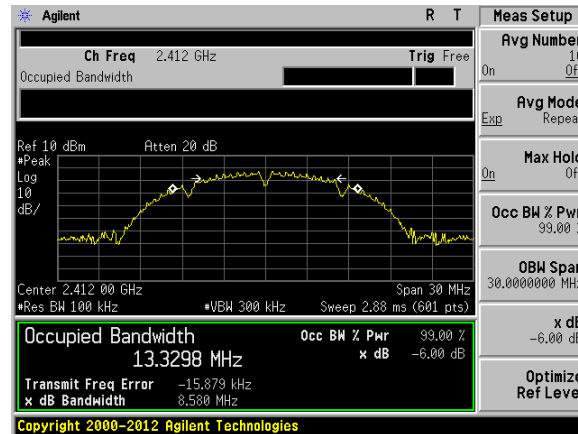
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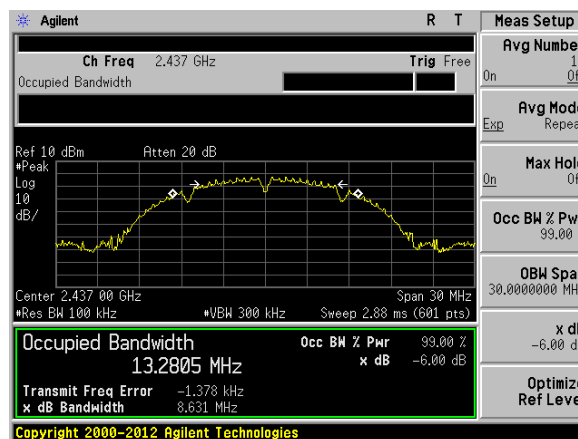
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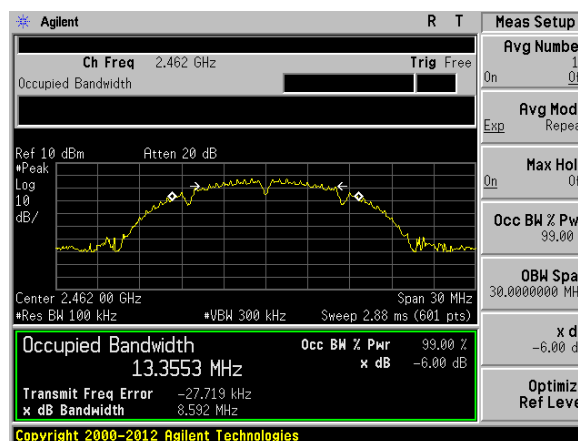
Test mode:	802.11b
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Lowest channel



Middle channel



Highest channel

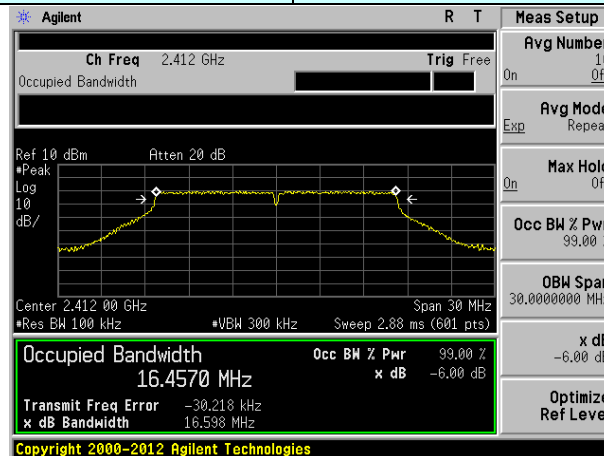
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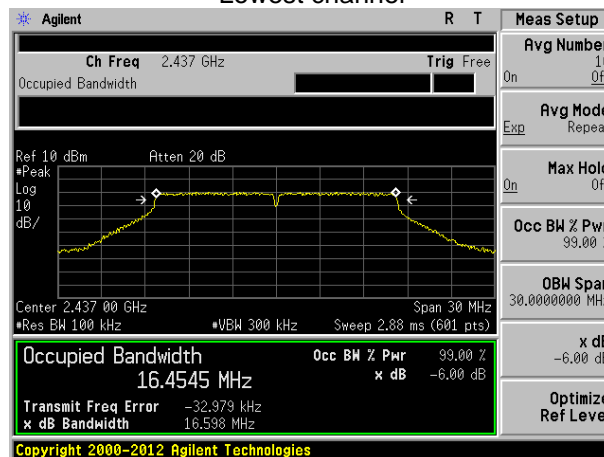
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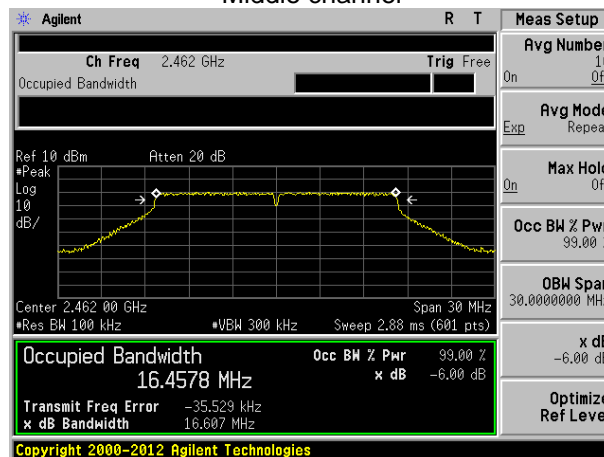
Test mode:	802.11g
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Lowest channel



Middle channel



Highest channel

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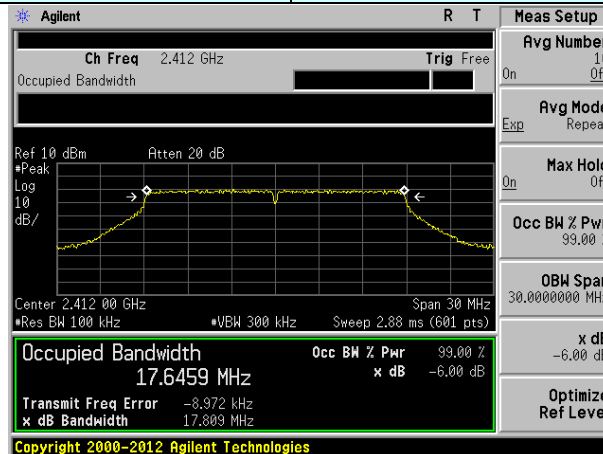


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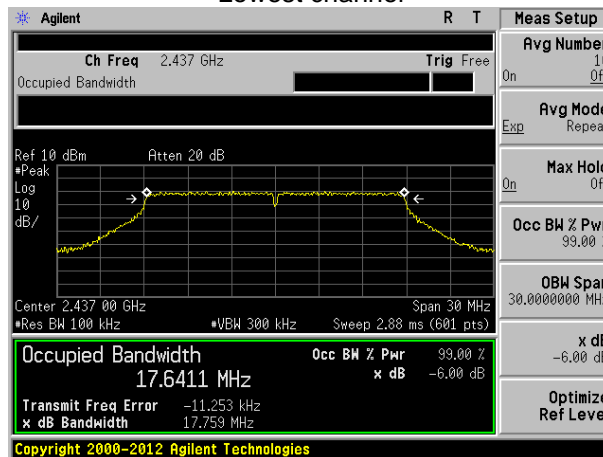
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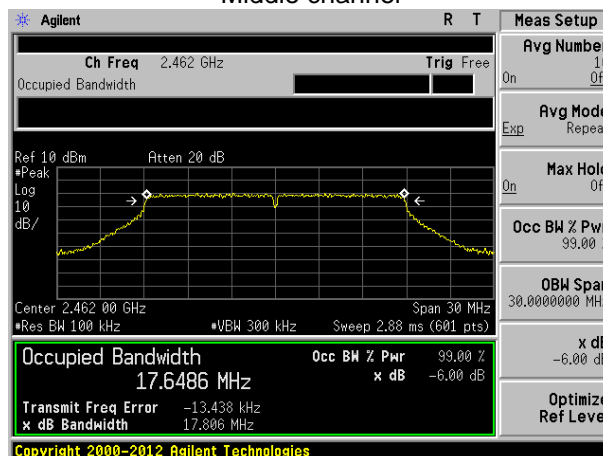
Test mode:	802.11n(HT20)
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Lowest channel



Middle channel



Highest channel

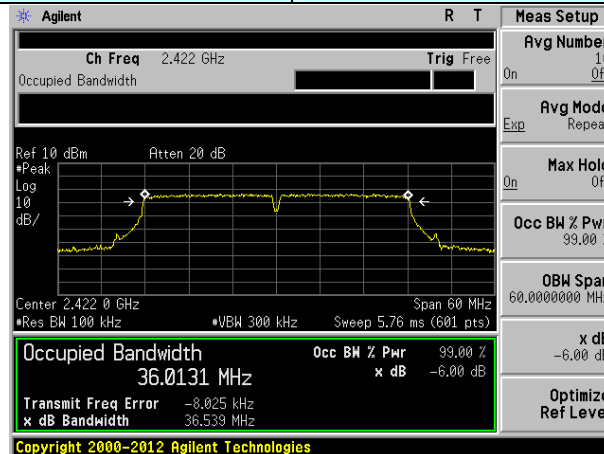
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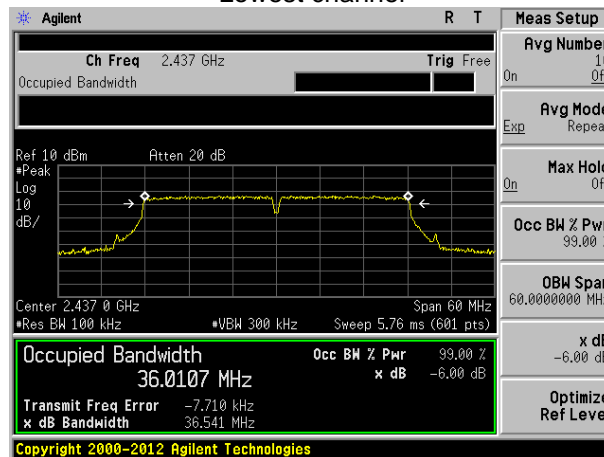
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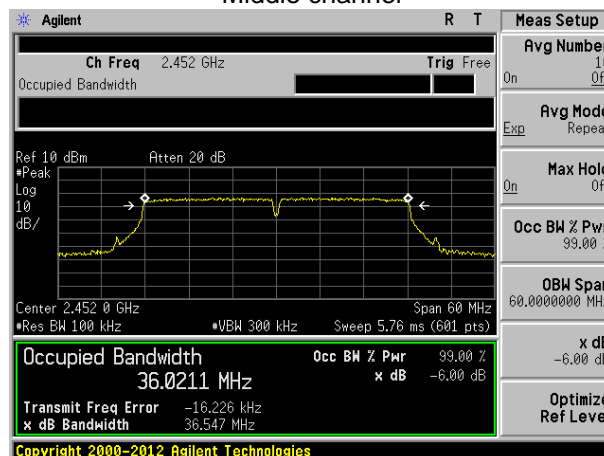
Test mode:	802.11n(HT40)
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Lowest channel



Middle channel

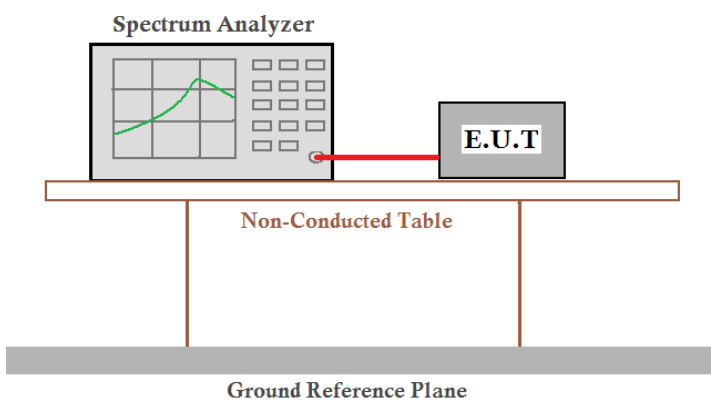


Highest channel

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7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm/3KHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test CH	Power Spectral Density (dBm)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-2.45	-10.15	-9.85	-13.29	8.00	Pass
Middle	-2.21	-9.94	-9.70	-13.44		
Highest	-2.55	-9.78	-9.60	-13.27		

Test plot as follows:

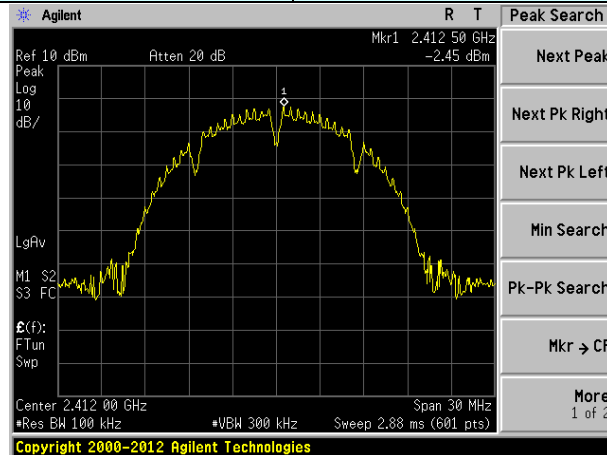
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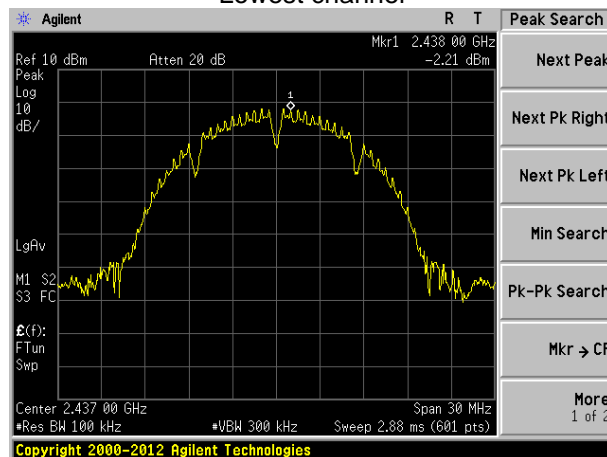
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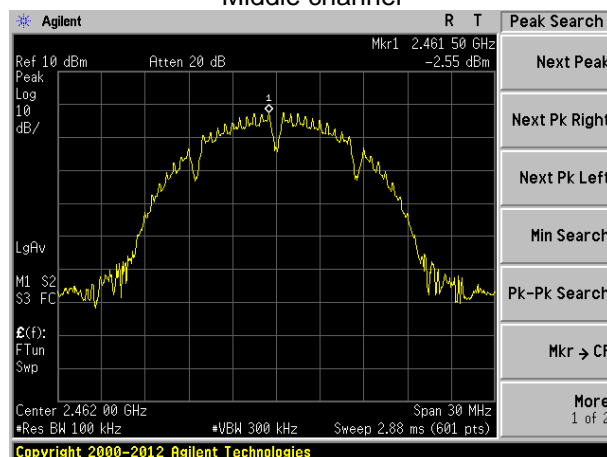
Test mode:	802.11b
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Lowest channel



Middle channel



Highest channel

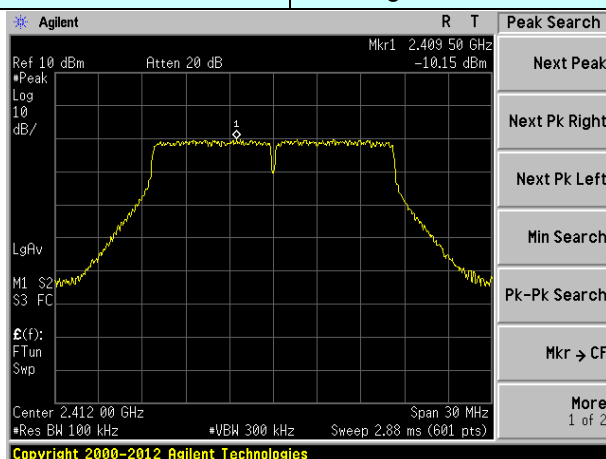
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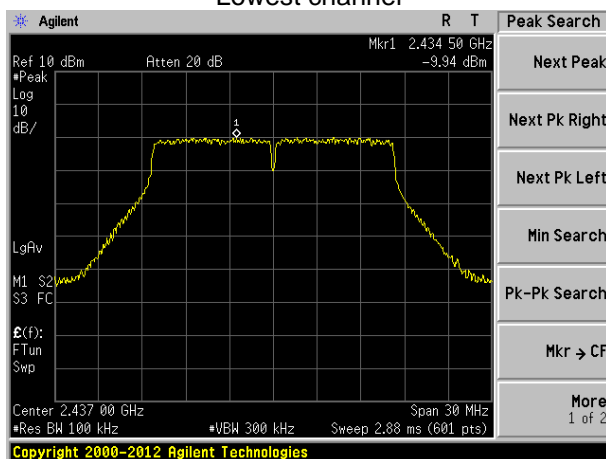
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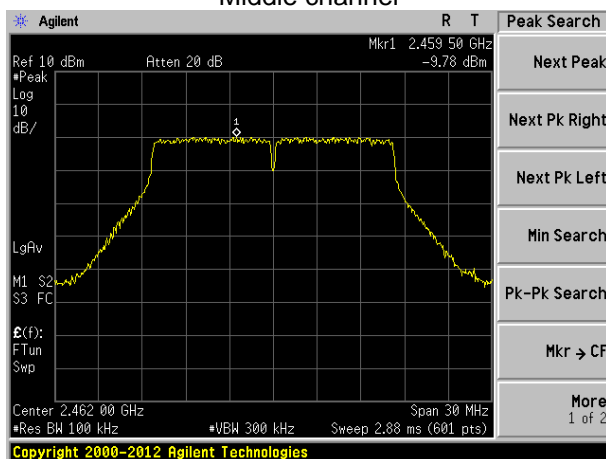
Test mode:	802.11g
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Lowest channel



Middle channel



Highest channel

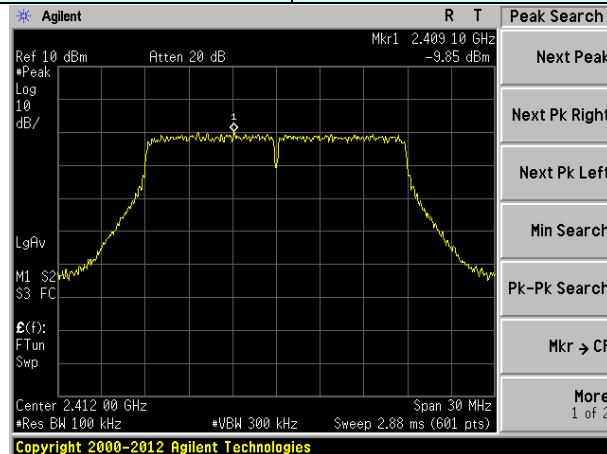
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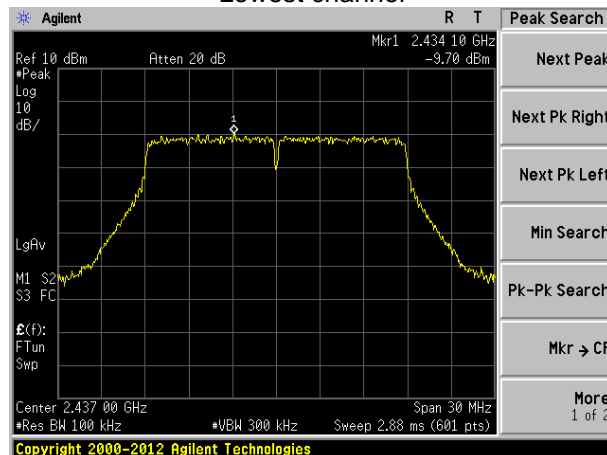
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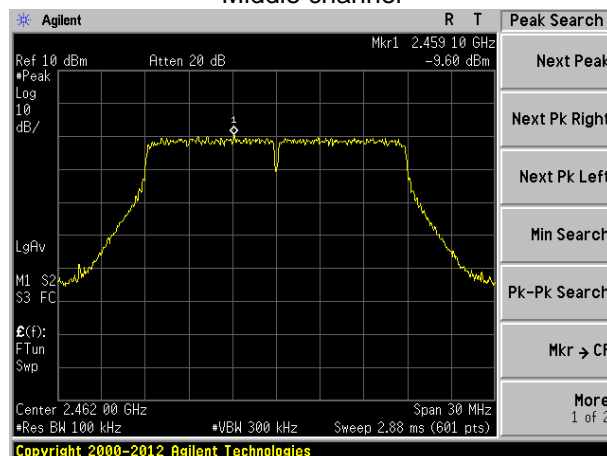
Test mode:	802.11n(HT20)
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Lowest channel



Middle channel



Highest channel

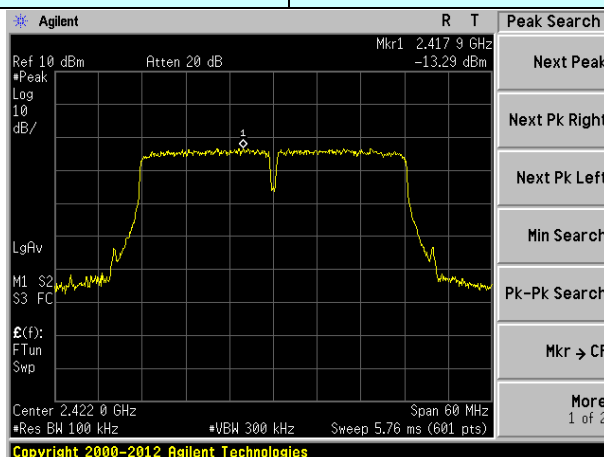
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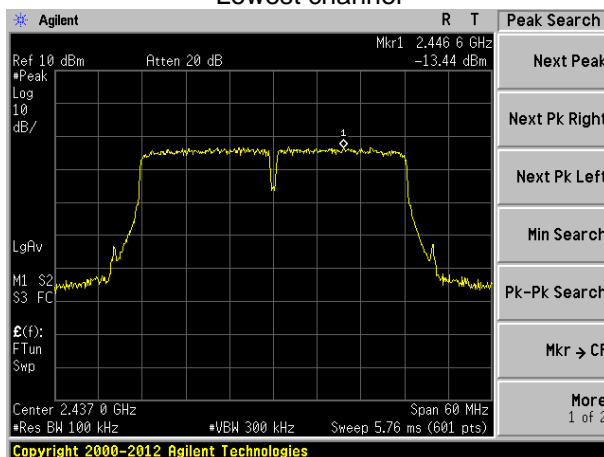
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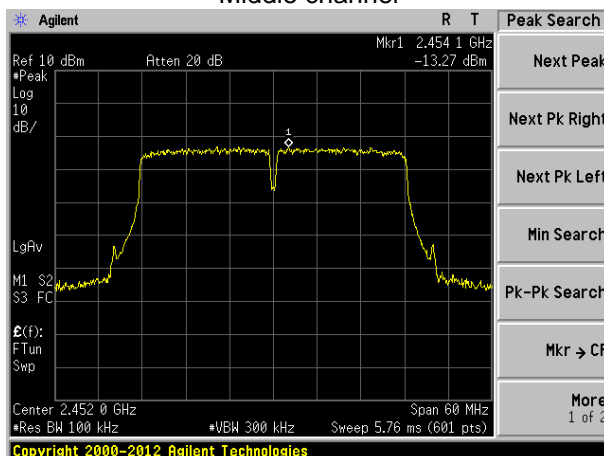
Test mode:	802.11n(HT40)
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Lowest channel



Middle channel



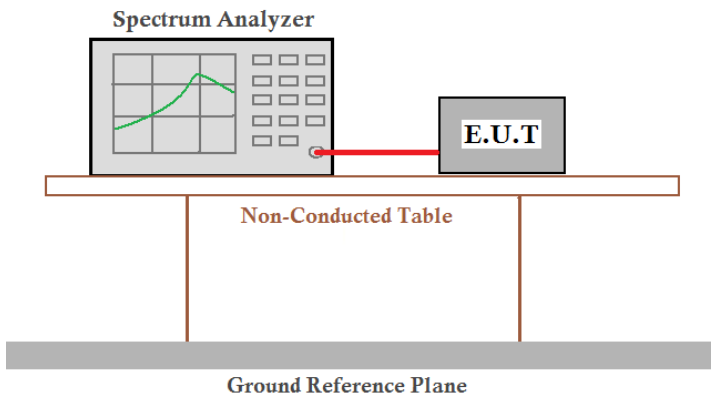
Highest channel

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7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance 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:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

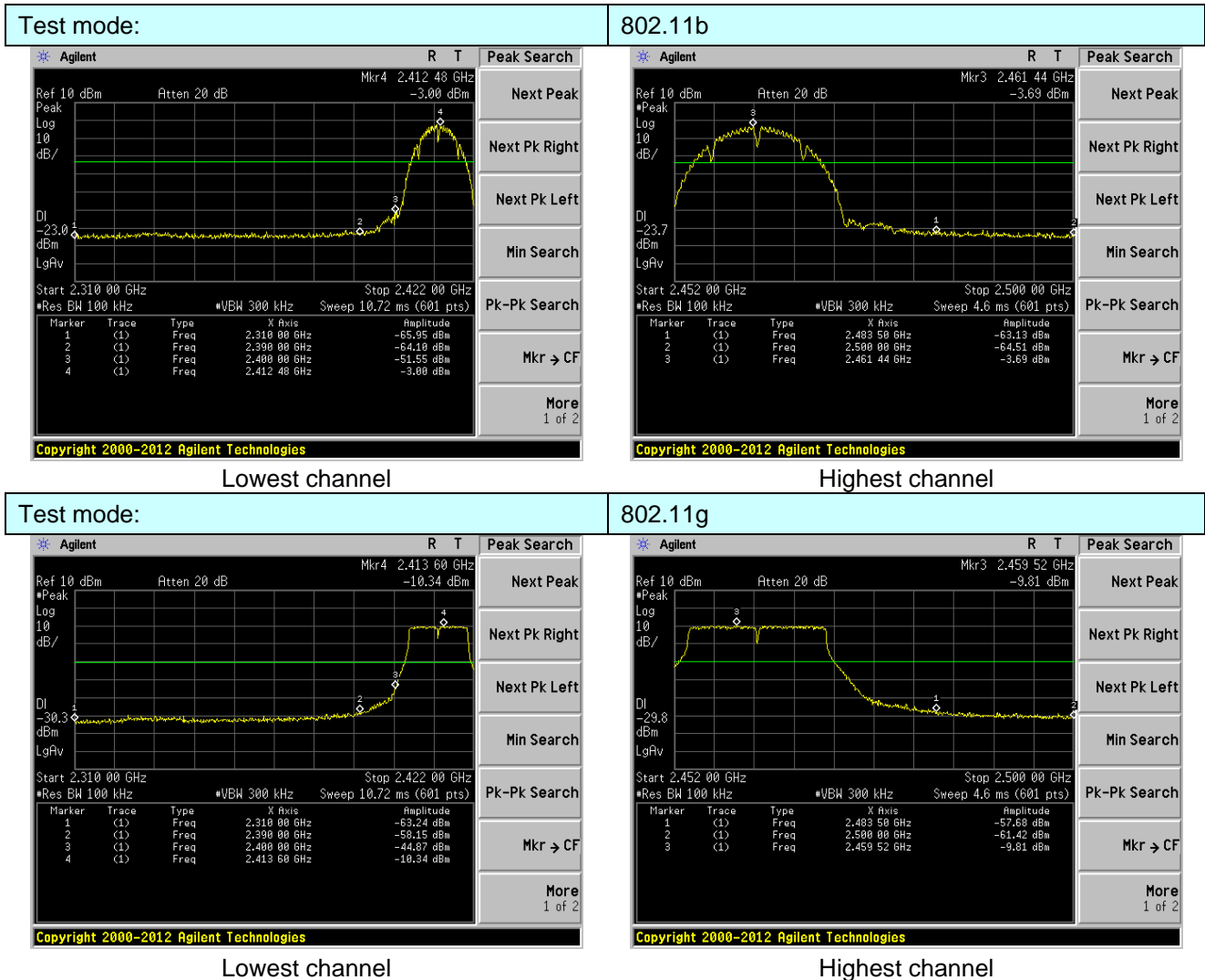


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Test plot as follows:



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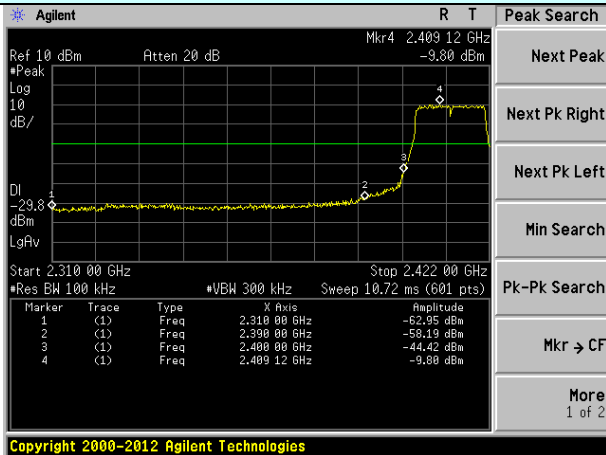


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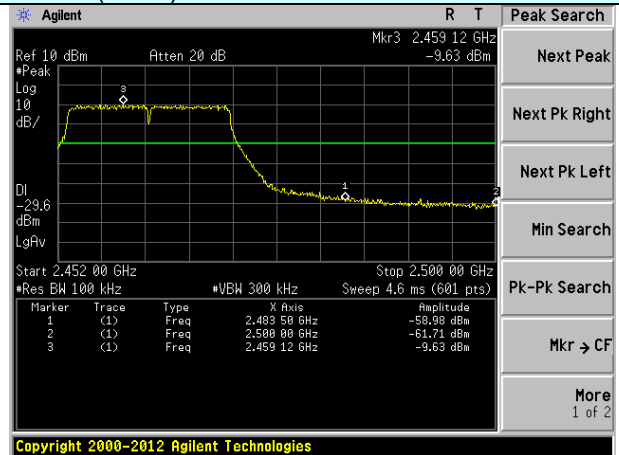
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Test mode: 802.11n(HT20)

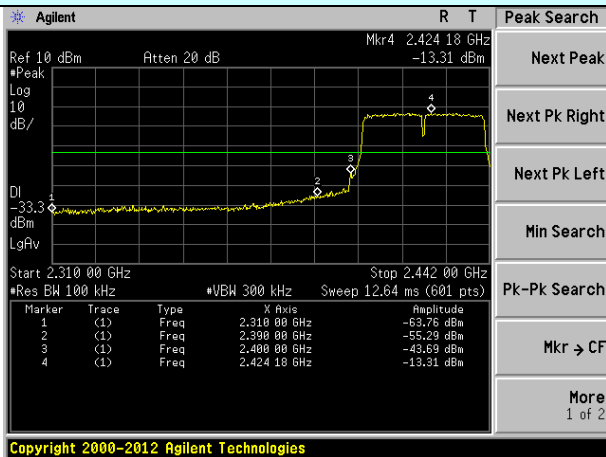


Lowest channel

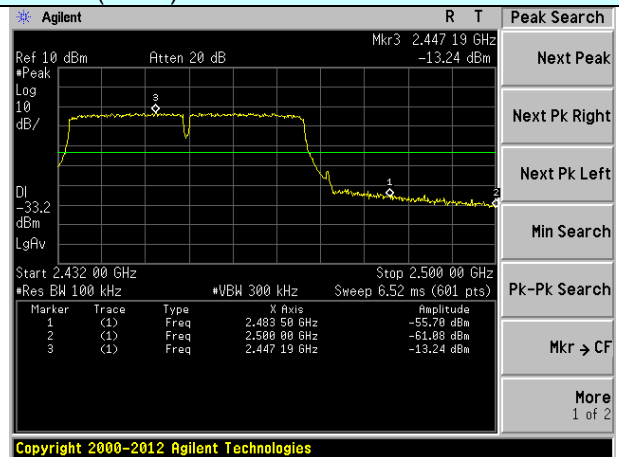


Highest channel

Test mode: 802.11n(HT40)



Lowest channel

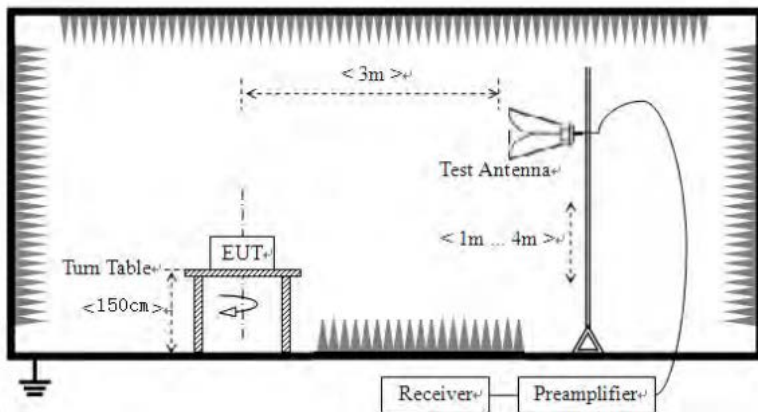


Highest channel

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7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	<ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table 1.5 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-				

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	peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.68	27.59	5.38	34.01	49.64	74.00	-24.36	Horizontal
2400.00	59.37	27.58	5.39	34.01	58.33	74.00	-15.67	Horizontal
2390.00	52.30	27.59	5.38	34.01	51.26	74.00	-22.74	Vertical
2400.00	60.91	27.58	5.39	34.01	59.87	74.00	-14.13	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.72	27.59	5.38	34.01	36.68	54.00	-17.32	Horizontal
2400.00	45.91	27.58	5.39	34.01	44.87	54.00	-9.13	Horizontal
2390.00	39.47	27.59	5.38	34.01	38.43	54.00	-15.57	Vertical
2400.00	46.96	27.58	5.39	34.01	45.92	54.00	-8.08	Vertical

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Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.93	27.53	5.47	33.92	50.01	74.00	-23.99	Horizontal
2500.00	47.06	27.55	5.49	29.93	50.17	74.00	-23.83	Horizontal
2483.50	52.99	27.53	5.47	33.92	52.07	74.00	-21.93	Vertical
2500.00	49.39	27.55	5.49	29.93	52.50	74.00	-21.50	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.94	27.53	5.47	33.92	37.02	54.00	-16.98	Horizontal
2500.00	34.23	27.55	5.49	29.93	37.34	54.00	-16.66	Horizontal
2483.50	39.80	27.53	5.47	33.92	38.88	54.00	-15.12	Vertical
2500.00	36.07	27.55	5.49	29.93	39.18	54.00	-14.82	Vertical

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.*

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Test mode:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.58	27.59	5.38	34.01	48.54	74.00	-25.46	Horizontal
2400.00	57.90	27.58	5.39	34.01	56.86	74.00	-17.14	Horizontal
2390.00	51.12	27.59	5.38	34.01	50.08	74.00	-23.92	Vertical
2400.00	59.13	27.58	5.39	34.01	58.09	74.00	-15.91	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.94	27.59	5.38	34.01	35.90	54.00	-18.10	Horizontal
2400.00	45.01	27.58	5.39	34.01	43.97	54.00	-10.03	Horizontal
2390.00	38.59	27.59	5.38	34.01	37.55	54.00	-16.45	Vertical
2400.00	45.97	27.58	5.39	34.01	44.93	54.00	-9.07	Vertical

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Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.35	27.53	5.47	33.92	48.43	74.00	-25.57	Horizontal
2500.00	45.84	27.55	5.49	29.93	48.95	74.00	-25.05	Horizontal
2483.50	51.18	27.53	5.47	33.92	50.26	74.00	-23.74	Vertical
2500.00	47.96	27.55	5.49	29.93	51.07	74.00	-22.93	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.99	27.53	5.47	33.92	36.07	54.00	-17.93	Horizontal
2500.00	33.48	27.55	5.49	29.93	36.59	54.00	-17.41	Horizontal
2483.50	38.75	27.53	5.47	33.92	37.83	54.00	-16.17	Vertical
2500.00	35.28	27.55	5.49	29.93	38.39	54.00	-15.61	Vertical

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.*

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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.63	27.59	5.38	34.01	49.59	74.00	-24.41	Horizontal
2400.00	59.30	27.58	5.39	34.01	58.26	74.00	-15.74	Horizontal
2390.00	52.24	27.59	5.38	34.01	51.20	74.00	-22.80	Vertical
2400.00	60.82	27.58	5.39	34.01	59.78	74.00	-14.22	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.69	27.59	5.38	34.01	36.65	54.00	-17.35	Horizontal
2400.00	45.87	27.58	5.39	34.01	44.83	54.00	-9.17	Horizontal
2390.00	39.42	27.59	5.38	34.01	38.38	54.00	-15.62	Vertical
2400.00	46.92	27.58	5.39	34.01	45.88	54.00	-8.12	Vertical

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Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.85	27.53	5.47	33.92	49.93	74.00	-24.07	Horizontal
2500.00	47.00	27.55	5.49	29.93	50.11	74.00	-23.89	Horizontal
2483.50	52.90	27.53	5.47	33.92	51.98	74.00	-22.02	Vertical
2500.00	49.32	27.55	5.49	29.93	52.43	74.00	-21.57	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.90	27.53	5.47	33.92	36.98	54.00	-17.02	Horizontal
2500.00	34.19	27.55	5.49	29.93	37.30	54.00	-16.70	Horizontal
2483.50	39.75	27.53	5.47	33.92	38.83	54.00	-15.17	Vertical
2500.00	36.03	27.55	5.49	29.93	39.14	54.00	-14.86	Vertical

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.*

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Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.82	27.59	5.38	34.01	48.78	74.00	-25.22	Horizontal
2400.00	58.21	27.58	5.39	34.01	57.17	74.00	-16.83	Horizontal
2390.00	51.37	27.59	5.38	34.01	50.33	74.00	-23.67	Vertical
2400.00	59.52	27.58	5.39	34.01	58.48	74.00	-15.52	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.11	27.59	5.38	34.01	36.07	54.00	-17.93	Horizontal
2400.00	45.20	27.58	5.39	34.01	44.16	54.00	-9.84	Horizontal
2390.00	38.78	27.59	5.38	34.01	37.74	54.00	-16.26	Vertical
2400.00	46.19	27.58	5.39	34.01	45.15	54.00	-8.85	Vertical

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Test mode:	802.11n(HT40)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.69	27.53	5.47	33.92	48.77	74.00	-25.23	Horizontal
2500.00	46.10	27.55	5.49	29.93	49.21	74.00	-24.79	Horizontal
2483.50	51.57	27.53	5.47	33.92	50.65	74.00	-23.35	Vertical
2500.00	48.26	27.55	5.49	29.93	51.37	74.00	-22.63	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.19	27.53	5.47	33.92	36.27	54.00	-17.73	Horizontal
2500.00	33.64	27.55	5.49	29.93	36.75	54.00	-17.25	Horizontal
2483.50	38.97	27.53	5.47	33.92	38.05	54.00	-15.95	Vertical
2500.00	35.45	27.55	5.49	29.93	38.56	54.00	-15.44	Vertical

Remark:

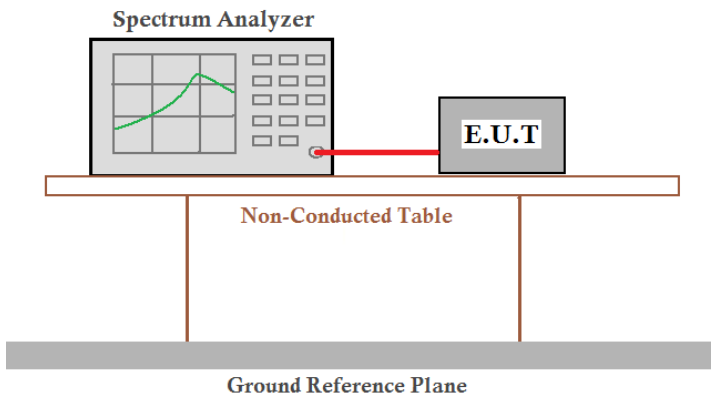
1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

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7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance 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:	 <p>The diagram illustrates the test setup for conducted emission testing. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Test plot as follows:

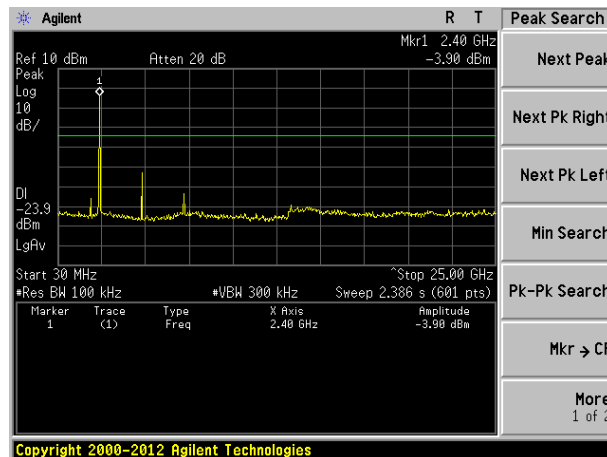


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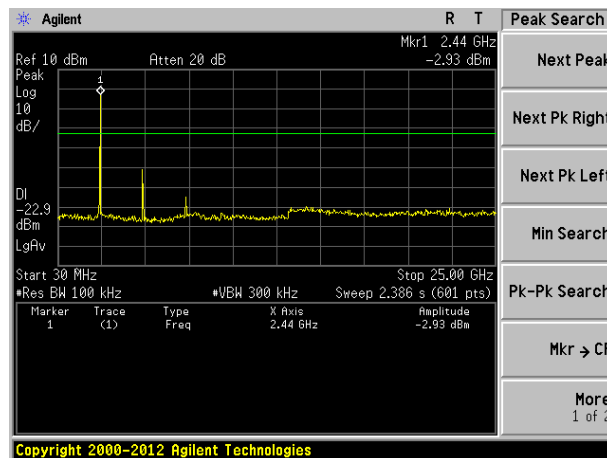
Test mode:	802.11b
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Lowest channel



30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

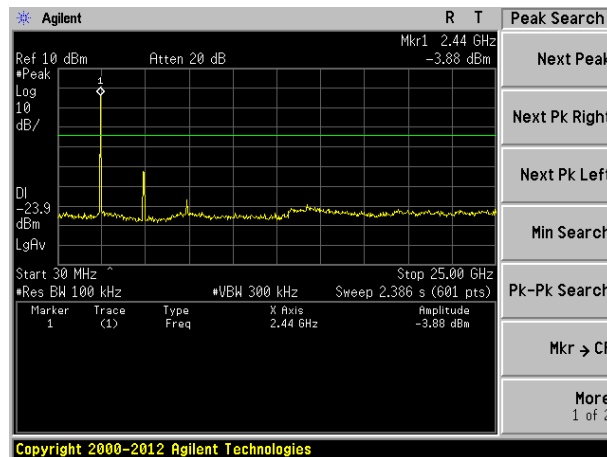
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30MHz~25GHz

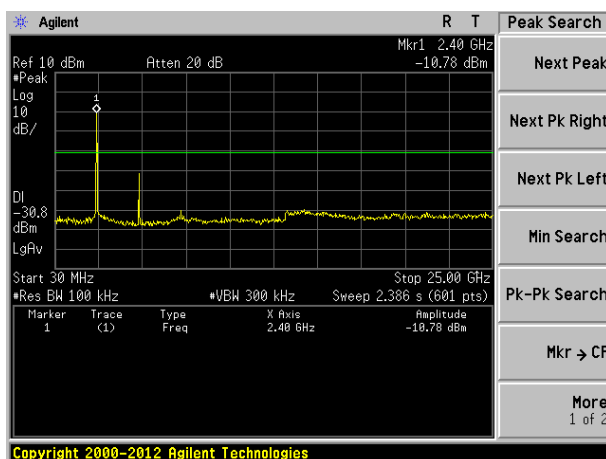
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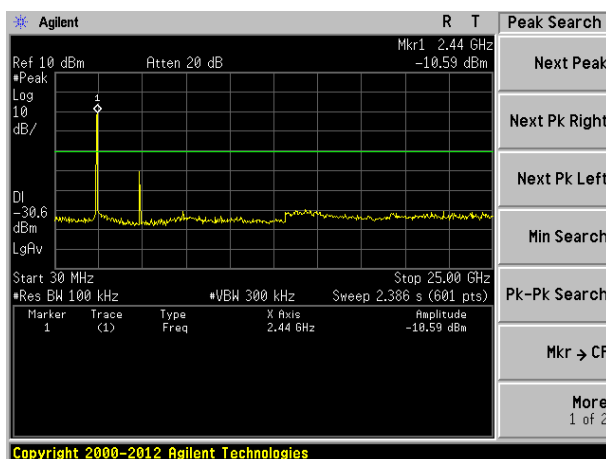
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Test mode:	802.11g
Lowest channel	



30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

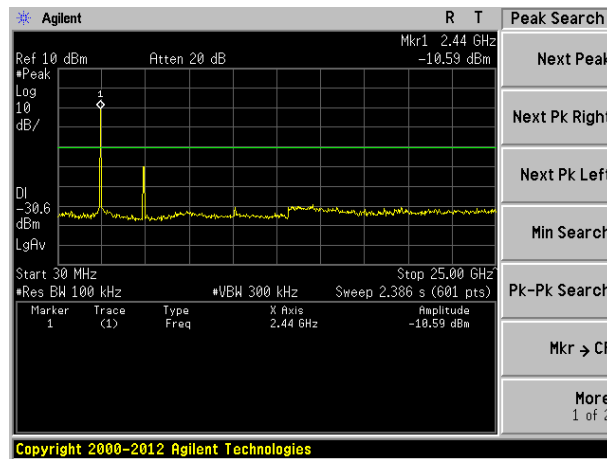
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30MHz~25GHz

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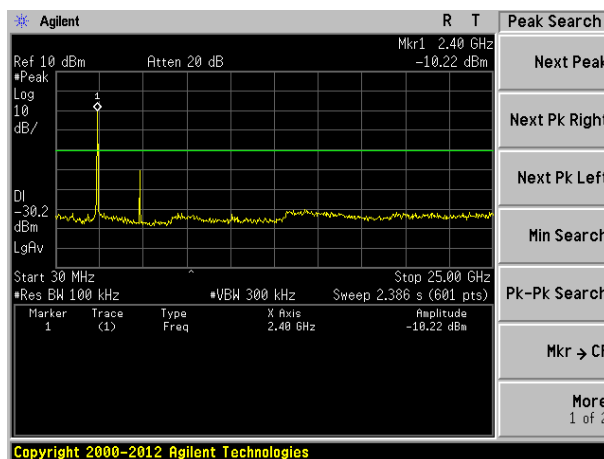


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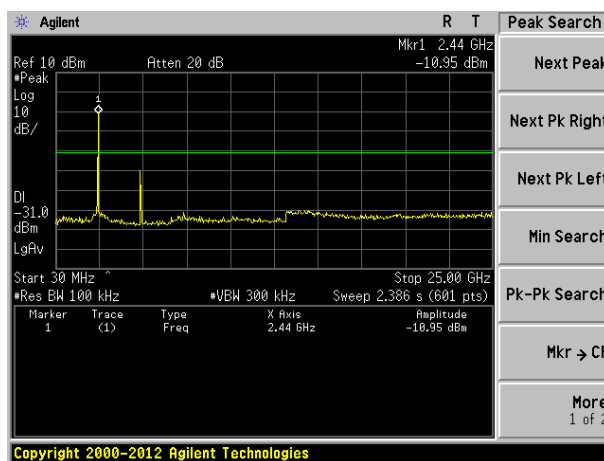
Test mode:	802.11n(HT20)
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Lowest channel



30MHz~25GHz

Middle channel



30MHz~25GHz

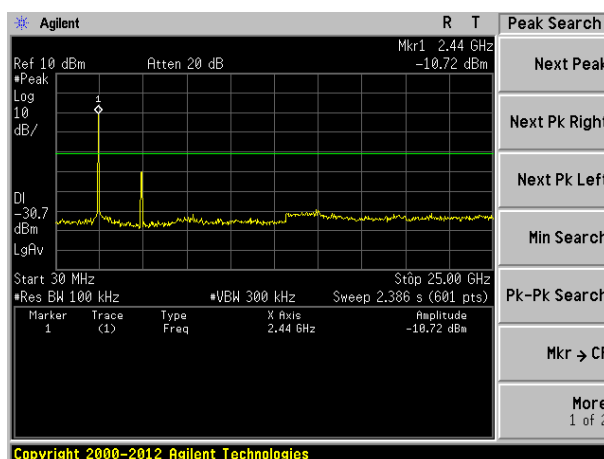
Highest channel

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30MHz~25GHz

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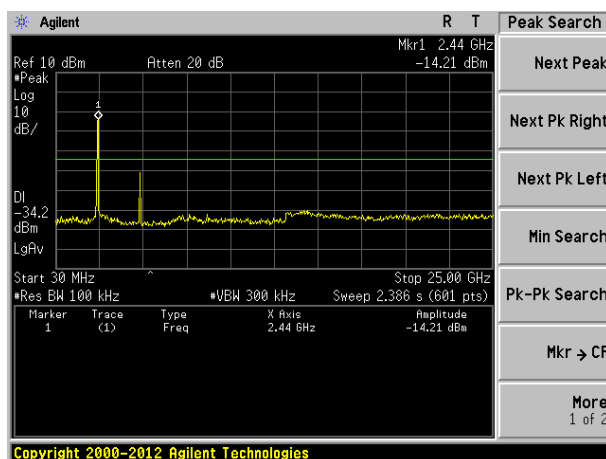


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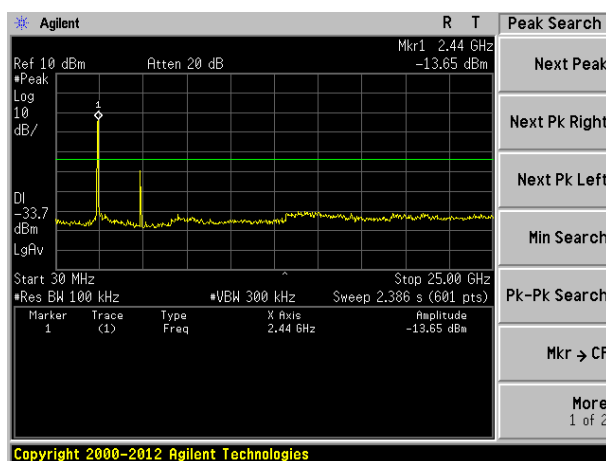
Test mode:	802.11n(HT40)
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Lowest channel



30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

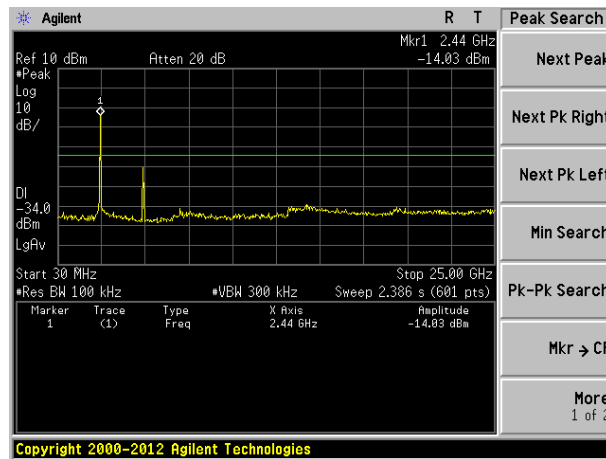
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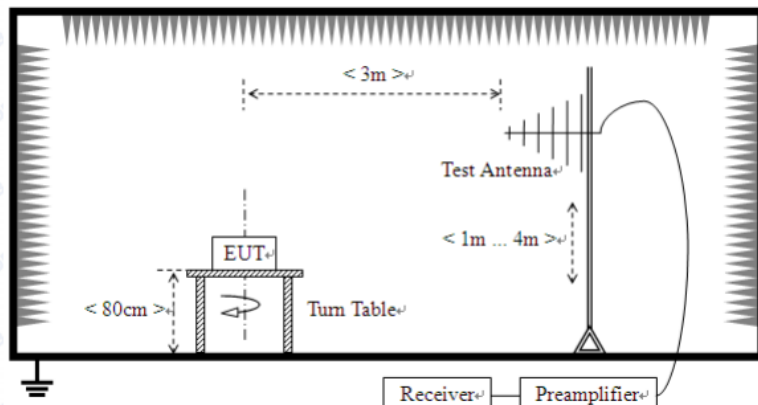


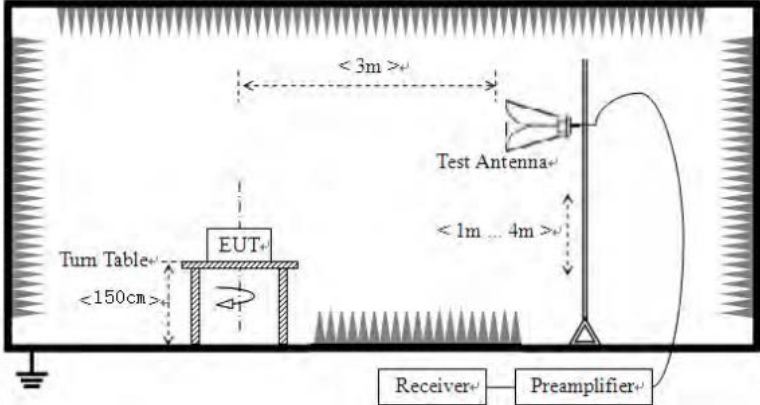
30MHz~25GHz

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7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	30MHz-88MHz		40.00		Quasi-peak
	88MHz-216MHz		43.50		Quasi-peak
	216MHz-960MHz		46.00		Quasi-peak
	960MHz-1GHz		54.00		Quasi-peak
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:	Below 1GHz				
	<div></div>				
	Above 1GHz				

	
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table(0.8 meters below 1G and 1.5 meters above 1G) 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Pass</p>



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Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
36.25	50.74	11.20	0.62	30.10	32.46	40.00	-7.54	Vertical
47.49	52.94	12.23	0.74	30.10	35.81	40.00	-4.19	Vertical
84.11	55.40	8.40	1.06	29.89	34.97	40.00	-5.03	Vertical
168.41	56.96	8.40	1.68	29.53	37.51	43.50	-5.99	Vertical
223.73	53.93	10.98	1.98	29.57	37.32	46.00	-8.68	Vertical
400.43	53.01	15.50	2.85	29.60	41.76	46.00	-4.24	Vertical
55.03	45.92	11.93	0.82	30.06	28.61	40.00	-11.39	Horizontal
75.45	56.89	7.35	0.99	29.94	35.29	40.00	-4.71	Horizontal
144.84	56.08	7.43	1.53	29.62	35.42	43.50	-8.08	Horizontal
219.08	54.90	10.88	1.95	29.55	38.18	46.00	-7.82	Horizontal
305.68	53.50	13.62	2.39	30.16	39.35	46.00	-6.65	Horizontal
426.52	44.59	16.05	2.98	29.57	34.05	46.00	-11.95	Horizontal

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■ Above 1GHz

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	45.56	31.79	8.62	32.10	53.87	74.00	-20.13	Vertical
7236.00	34.39	36.19	11.68	31.97	50.29	74.00	-23.71	Vertical
9648.00	32.83	38.07	14.16	31.56	53.50	74.00	-20.50	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	44.19	31.79	8.62	32.10	52.50	74.00	-21.50	Horizontal
7236.00	34.11	36.19	11.68	31.97	50.01	74.00	-23.99	Horizontal
9648.00	32.40	38.07	14.16	31.56	53.07	74.00	-20.93	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	33.62	31.79	8.62	32.10	41.93	54.00	-12.07	Vertical
7236.00	23.25	36.19	11.68	31.97	39.15	54.00	-14.85	Vertical
9648.00	23.17	38.07	14.16	31.56	43.84	54.00	-10.16	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	31.71	31.79	8.62	32.10	40.02	54.00	-13.98	Horizontal
7236.00	22.69	36.19	11.68	31.97	38.59	54.00	-15.41	Horizontal
9648.00	22.15	38.07	14.16	31.56	42.82	54.00	-11.18	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”*, means this data is the too weak instrument of signal is unable to test.

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Test mode:	802.11b	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	45.57	31.85	8.66	32.12	53.96	74.00	-20.04	Vertical
7311.00	34.43	36.37	11.71	31.91	50.60	74.00	-23.40	Vertical
9748.00	33.83	38.27	14.25	31.56	54.79	74.00	-19.21	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	44.01	31.85	8.66	32.12	52.40	74.00	-21.60	Horizontal
7311.00	33.05	36.37	11.71	31.91	49.22	74.00	-24.78	Horizontal
9748.00	33.71	38.27	14.25	31.56	54.67	74.00	-19.33	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.40	31.85	8.66	32.12	38.79	54.00	-15.21	Vertical
7311.00	22.74	36.37	11.71	31.91	38.91	54.00	-15.09	Vertical
9748.00	23.08	38.27	14.25	31.56	44.04	54.00	-9.96	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.11	31.85	8.66	32.12	38.50	54.00	-15.50	Horizontal
7311.00	22.14	36.37	11.71	31.91	38.31	54.00	-15.69	Horizontal
9748.00	23.42	38.27	14.25	31.56	44.38	54.00	-9.62	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”*, means this data is the too weak instrument of signal is unable to test.

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Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.26	31.90	8.70	32.15	53.71	74.00	-20.29	Vertical
7386.00	35.20	36.49	11.76	31.83	51.62	74.00	-22.38	Vertical
9848.00	37.20	38.62	14.31	31.77	58.36	74.00	-15.64	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.50	31.90	8.70	32.15	52.95	74.00	-21.05	Horizontal
7386.00	34.07	36.49	11.76	31.83	50.49	74.00	-23.51	Horizontal
9848.00	33.36	38.62	14.31	31.77	54.52	74.00	-19.48	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.14	31.90	8.70	32.15	44.59	54.00	-9.41	Vertical
7386.00	25.11	36.49	11.76	31.83	41.53	54.00	-12.47	Vertical
9848.00	25.69	38.62	14.31	31.77	46.85	54.00	-7.15	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.85	31.90	8.70	32.15	43.30	54.00	-10.70	Horizontal
7386.00	23.46	36.49	11.76	31.83	39.88	54.00	-14.12	Horizontal
9848.00	22.61	38.62	14.31	31.77	43.77	54.00	-10.23	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”*, means this data is the too weak instrument of signal is unable to test.

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Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	45.32	31.79	8.62	32.10	53.63	74.00	-20.37	Vertical
7236.00	34.24	36.19	11.68	31.97	50.14	74.00	-23.86	Vertical
9648.00	32.73	38.07	14.16	31.56	53.40	74.00	-20.60	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	52.99	31.79	8.62	32.10	51.30	74.00	-22.70	Horizontal
7236.00	33.98	36.19	11.68	31.97	49.88	74.00	-24.12	Horizontal
9648.00	32.31	38.07	14.16	31.56	52.98	74.00	-21.02	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.41	31.79	8.62	32.10	37.72	54.00	-16.28	Vertical
7236.00	23.10	36.19	11.68	31.97	39.00	54.00	-15.00	Vertical
9648.00	23.07	38.07	14.16	31.56	43.74	54.00	-10.26	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.52	31.79	8.62	32.10	36.83	54.00	-17.17	Horizontal
7236.00	22.57	36.19	11.68	31.97	38.47	54.00	-15.53	Horizontal
9648.00	22.05	38.07	14.16	31.56	42.72	54.00	-11.28	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*” means this data is too weak instrument of signal is unable to test.*

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Test mode:	802.11g	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	44.38	31.85	8.66	32.12	52.77	74.00	-21.23	Vertical
7311.00	34.31	36.37	11.71	31.91	50.48	74.00	-23.52	Vertical
9748.00	33.74	38.27	14.25	31.56	54.70	74.00	-19.30	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	43.85	31.85	8.66	32.12	52.24	74.00	-21.76	Horizontal
7311.00	32.94	36.37	11.71	31.91	49.11	74.00	-24.89	Horizontal
9748.00	33.63	38.27	14.25	31.56	54.59	74.00	-19.41	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.23	31.85	8.66	32.12	38.62	54.00	-15.38	Vertical
7311.00	22.62	36.37	11.71	31.91	38.79	54.00	-15.21	Vertical
9748.00	23.00	38.27	14.25	31.56	43.96	54.00	-10.04	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.96	31.85	8.66	32.12	38.35	54.00	-15.65	Horizontal
7311.00	22.03	36.37	11.71	31.91	38.20	54.00	-15.80	Horizontal
9748.00	23.35	38.27	14.25	31.56	44.31	54.00	-9.69	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
2. *“*” means this data is too weak instrument of signal is unable to test.*

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Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.92	31.90	8.70	32.15	53.37	74.00	-20.63	Vertical
7386.00	34.99	36.49	11.76	31.83	51.41	74.00	-22.59	Vertical
9848.00	37.05	38.62	14.31	31.77	58.21	74.00	-15.79	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.22	31.90	8.70	32.15	52.67	74.00	-21.33	Horizontal
7386.00	33.89	36.49	11.76	31.83	50.31	74.00	-23.69	Horizontal
9848.00	33.22	38.62	14.31	31.77	54.38	74.00	-19.62	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.84	31.90	8.70	32.15	44.29	54.00	-9.71	Vertical
7386.00	24.91	36.49	11.76	31.83	41.33	54.00	-12.67	Vertical
9848.00	25.55	38.62	14.31	31.77	46.71	54.00	-7.29	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.58	31.90	8.70	32.15	43.03	54.00	-10.97	Horizontal
7386.00	23.28	36.49	11.76	31.83	39.70	54.00	-14.30	Horizontal
9848.00	22.48	38.62	14.31	31.77	43.64	54.00	-10.36	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”*, means this data is the too weak instrument of signal is unable to test.

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Shenzhen EBO Technology Co., Ltd.

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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	47.38	31.79	8.62	32.10	55.69	74.00	-18.31	Vertical
7236.00	34.27	36.19	11.68	31.97	50.17	74.00	-23.83	Vertical
9648.00	32.75	38.07	14.16	31.56	53.42	74.00	-20.58	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	44.03	31.79	8.62	32.10	52.34	74.00	-21.66	Horizontal
7236.00	34.01	36.19	11.68	31.97	49.91	74.00	-24.09	Horizontal
9648.00	32.33	38.07	14.16	31.56	53.00	74.00	-21.00	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	33.45	31.79	8.62	32.10	41.76	54.00	-12.24	Vertical
7236.00	23.14	36.19	11.68	31.97	39.04	54.00	-14.96	Vertical
9648.00	23.10	38.07	14.16	31.56	43.77	54.00	-10.23	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	31.57	31.79	8.62	32.10	33.88	54.00	-14.12	Horizontal
7236.00	22.59	36.19	11.68	31.97	38.49	54.00	-15.51	Horizontal
9648.00	22.07	38.07	14.16	31.56	42.74	54.00	-11.26	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*” means this data is too weak instrument of signal is unable to test.*

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Test mode:	802.11n(HT20)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	44.42	31.85	8.66	32.12	52.81	74.00	-21.19	Vertical
7311.00	34.33	36.37	11.71	31.91	50.50	74.00	-23.50	Vertical
9748.00	33.76	38.27	14.25	31.56	54.72	74.00	-19.28	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	42.89	31.85	8.66	32.12	51.28	74.00	-22.72	Horizontal
7311.00	32.97	36.37	11.71	31.91	49.14	74.00	-24.86	Horizontal
9748.00	33.65	38.27	14.25	31.56	54.61	74.00	-19.39	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.27	31.85	8.66	32.12	38.66	54.00	-15.34	Vertical
7311.00	22.65	36.37	11.71	31.91	38.82	54.00	-15.18	Vertical
9748.00	23.02	38.27	14.25	31.56	43.98	54.00	-10.02	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.00	31.85	8.66	32.12	38.39	54.00	-15.61	Horizontal
7311.00	22.06	36.37	11.71	31.91	38.23	54.00	-15.77	Horizontal
9748.00	23.36	38.27	14.25	31.56	44.32	54.00	-9.68	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*” means this data is too weak instrument of signal is unable to test.*

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Shenzhen EBO Technology Co., Ltd.

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Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.00	31.90	8.70	32.15	53.45	74.00	-20.55	4924.00
7386.00	35.04	36.49	11.76	31.83	51.46	74.00	-22.54	7386.00
9848.00	37.08	38.62	14.31	31.77	58.24	74.00	-15.76	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.29	31.90	8.70	32.15	52.74	74.00	-21.26	Horizontal
7386.00	33.93	36.49	11.76	31.83	50.35	74.00	-23.65	Horizontal
9848.00	33.25	38.62	14.31	31.77	54.41	74.00	-19.59	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.90	31.90	8.70	32.15	44.35	54.00	-9.65	Vertical
7386.00	24.95	36.49	11.76	31.83	41.37	54.00	-12.63	Vertical
9848.00	25.58	38.62	14.31	31.77	46.74	54.00	-7.26	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.64	31.90	8.70	32.15	43.09	54.00	-10.91	Horizontal
7386.00	23.32	36.49	11.76	31.83	39.74	54.00	-14.26	Horizontal
9848.00	22.51	38.62	14.31	31.77	43.67	54.00	-10.33	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.

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Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	46.09	31.81	8.63	32.11	54.42	74.00	-19.58	Vertical
7266.00	34.09	36.28	11.69	31.94	50.12	74.00	-23.88	Vertical
9688.00	32.62	38.13	14.21	31.52	53.44	74.00	-20.56	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	43.79	31.81	8.63	32.11	52.12	74.00	-21.88	Horizontal
7266.00	33.86	36.28	11.69	31.94	49.89	74.00	-24.11	Horizontal
9688.00	32.21	38.13	14.21	31.52	53.03	74.00	-20.97	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	29.19	31.81	8.63	32.11	37.52	54.00	-16.48	Vertical
7266.00	22.96	36.28	11.69	31.94	38.99	54.00	-15.01	Vertical
9688.00	22.97	38.13	14.21	31.52	43.79	54.00	-10.21	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	28.34	31.81	8.63	32.11	36.67	54.00	-17.33	Horizontal
7266.00	22.44	36.28	11.69	31.94	38.47	54.00	-15.53	Horizontal
9688.00	21.96	38.13	14.21	31.52	42.78	54.00	-11.22	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

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Test mode:	802.11n(HT40)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	44.18	31.85	8.66	32.12	52.57	74.00	-21.43	Vertical
7311.00	34.18	36.37	11.71	31.91	50.35	74.00	-23.65	Vertical
9748.00	33.66	38.27	14.25	31.56	54.62	74.00	-19.38	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	43.69	31.85	8.66	32.12	52.08	74.00	-21.92	Horizontal
7311.00	32.84	36.37	11.71	31.91	49.01	74.00	-24.99	Horizontal
9748.00	33.55	38.27	14.25	31.56	54.51	74.00	-19.49	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.05	31.85	8.66	32.12	38.44	54.00	-15.56	Vertical
7311.00	22.50	36.37	11.71	31.91	38.67	54.00	-15.33	Vertical
9748.00	22.91	38.27	14.25	31.56	43.87	54.00	-10.13	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.81	31.85	8.66	32.12	38.20	54.00	-15.80	Horizontal
7311.00	21.93	36.37	11.71	31.91	38.10	54.00	-15.90	Horizontal
9748.00	23.27	38.27	14.25	31.56	44.23	54.00	-9.77	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”*, means this data is the too weak instrument of signal is unable to test.

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Test mode:	802.11n(HT40)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	44.59	31.88	8.68	32.13	53.02	74.00	-20.98	Vertical
7356.00	34.78	36.45	11.75	31.86	51.12	74.00	-22.88	Vertical
9808.00	36.90	38.43	14.29	31.68	57.94	74.00	-16.06	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	43.94	31.88	8.68	32.13	52.37	74.00	-21.63	Horizontal
7356.00	33.71	36.45	11.75	31.86	50.05	74.00	-23.95	Horizontal
9808.00	33.08	38.43	14.29	31.68	54.12	74.00	-19.88	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	35.53	31.88	8.68	32.13	43.96	54.00	-10.04	Vertical
7356.00	24.71	36.45	11.75	31.86	41.05	54.00	-12.95	Vertical
9808.00	25.41	38.43	14.29	31.68	46.45	54.00	-7.55	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	34.32	31.88	8.68	32.13	42.75	54.00	-11.25	Horizontal
7356.00	23.10	36.45	11.75	31.86	39.44	54.00	-14.56	Horizontal
9808.00	22.34	38.43	14.29	31.68	43.38	54.00	-10.62	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

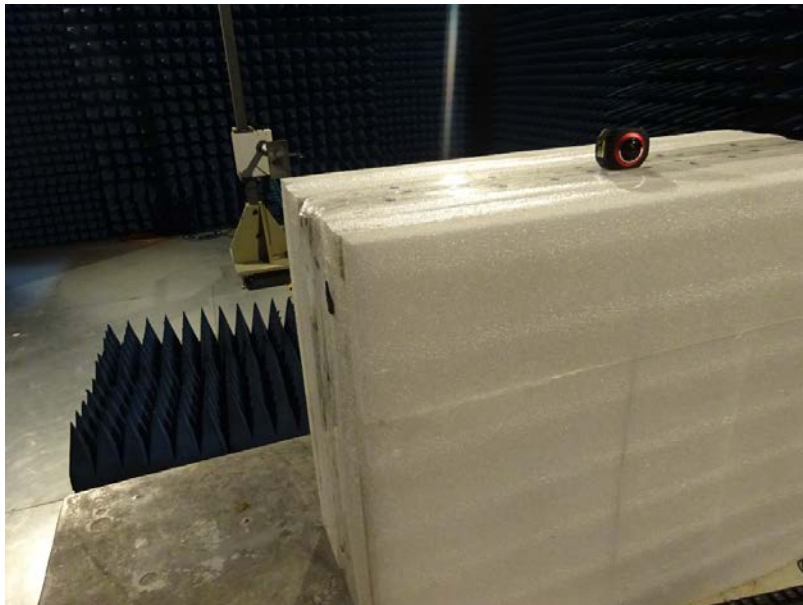
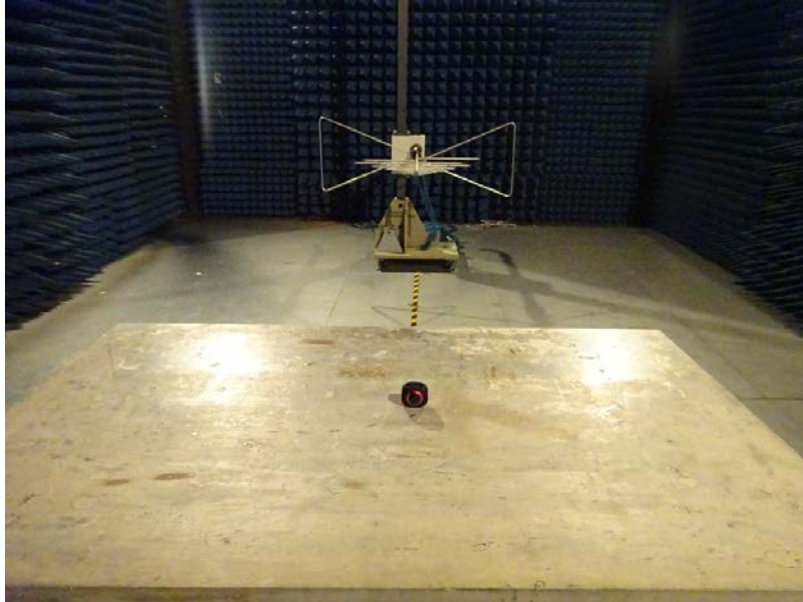
- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.

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8 Test Setup Photo

Radiated Emission



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Conducted Emission





9 EUT Constructional Details

Reference to the test report No. EBO1702041-E111

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