FCC Report (WIFI)

Applicant:	AOC
Address of Applicant:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist.,New Taipei City 23511, Taiwan (R.O.C.)

Equipment Under Test (EUT)

Product Name:	Tablet
Model No.:	U706G
Trade Mark:	AOC
FCC ID:	2AEB5-U706G
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014
Date of sample receipt:	June 05, 2015
Date of Test:	June 05-11, 2015
Date of report issued:	June 11, 2015
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo
Laboratory Manager

2 Version

Version No.	Date	Description
00	*June 11, 2015*	*Original*

Prepared By: Sam. Gao ***Date:*** *June 11, 2015*

Project Engineer

Check By: hank. yan ***Date:*** *June 11, 2015*

Reviewer

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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.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(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:	AOC
Address of Applicant:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist.,New Taipei City 23511, Taiwan (R.O.C.)
Manufacturer:	New Flying
Address of Manufacturer:	10/F Block C,Tairan Building,Tairan 8 Road, Chegongmiao, District, Shenzhen City, Guangdong Province, China

5.2 General Description of EUT

Product Name:	Tablet
Model No.:	U706G
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PIFA antenna
Antenna gain:	2dBi (declare by Applicant)
Power supply:	Model No.: XFY-01 Input: AC 100-240V, 50/60Hz, 0.4A MAX Output: DC 5.0V, 1.5A DC 3.7V Li-ion Battery 2800mAh

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)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, 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.	

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)
Data rate	1Mbps	6Mbps	6.5Mbps

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 fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

● **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, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.
Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone,Xixiang Road, Baoan District, Shenzhen 518102
Tel: 0755-27798480
Fax: 0755-27798960

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	Mar. 27 2015	Mar. 26 2016
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	Dec. 4 2014	Dec. 3 2015
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015

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	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

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	July 08 2014	July 07 2015

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

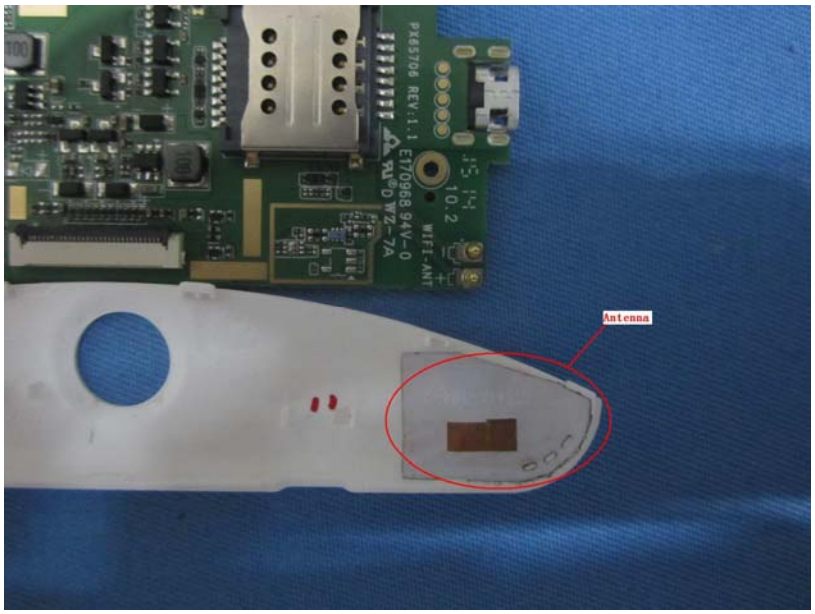
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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:

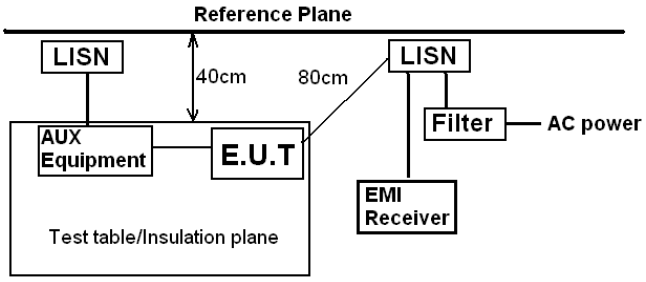
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is PIFA antenna, the best case gain of the antenna is 2dBi

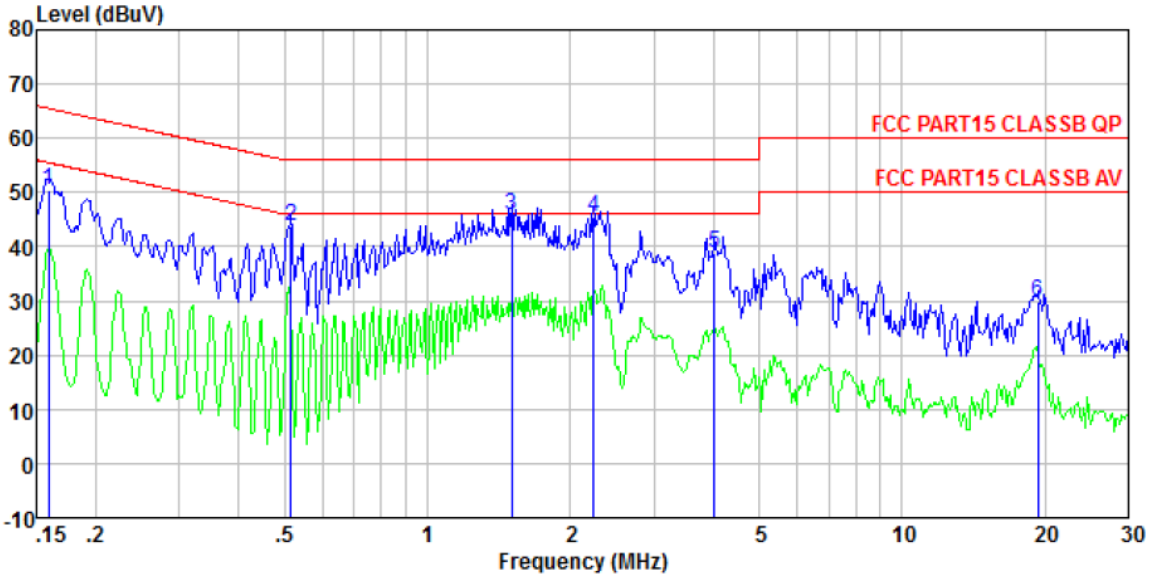


7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2009
Test Frequency Range:	150KHz to 30MHz
Class / Severity:	Class B
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto
Limit:	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 * Decreases with the logarithm of the frequency.
Test setup:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*
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.). This 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 C63.10:2009 on conducted measurement.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data

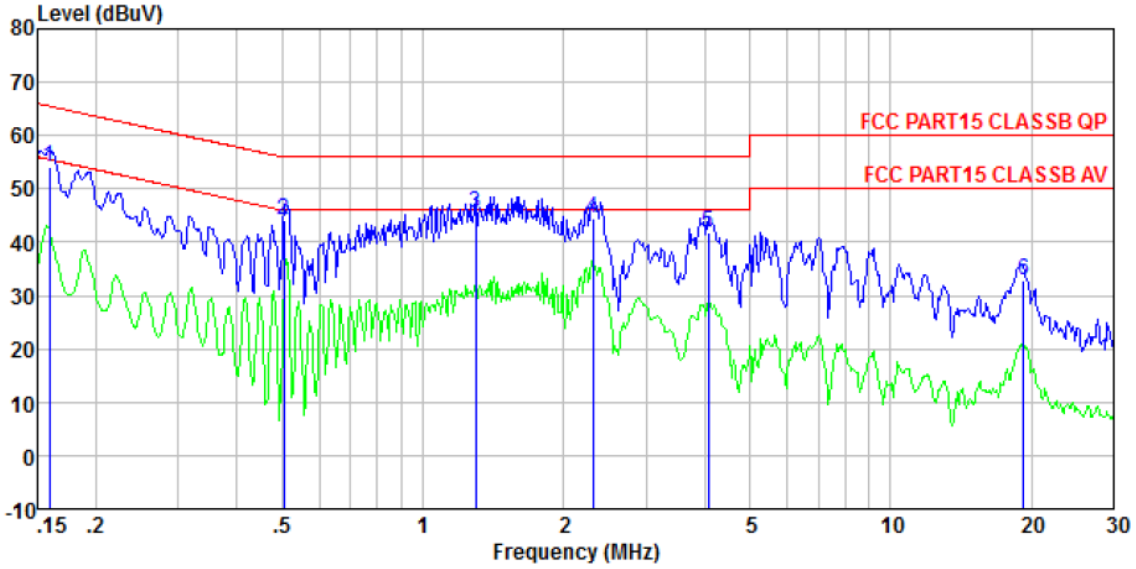
Line:



Site : Shielded room
Condition : FCC PART15 CLASSB QP LISN-2013 LINE
Job No. : 0835RF
Test mode : WiFi mode
Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.159	50.30	0.15	0.12	50.57	65.52	-14.95	QP
2	0.516	43.62	0.12	0.11	43.85	56.00	-12.15	QP
3	1.503	45.57	0.12	0.14	45.83	56.00	-10.17	QP
4	2.237	45.05	0.13	0.15	45.33	56.00	-10.67	QP
5	4.027	38.54	0.20	0.15	38.89	56.00	-17.11	QP
6	19.326	29.07	0.57	0.22	29.86	60.00	-30.14	QP

Neutral:



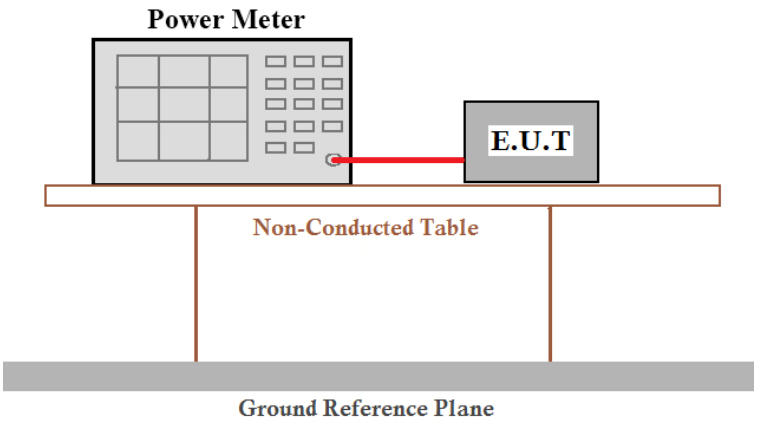
Site : Shielded room
Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL
Job No. : 0835RF
Test mode : WiFi mode
Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.159	53.98	0.07	0.12	54.17	65.52	-11.35	QP
2	0.505	43.93	0.06	0.11	44.10	56.00	-11.90	QP
3	1.296	45.38	0.09	0.13	45.60	56.00	-10.40	QP
4	2.309	44.35	0.10	0.15	44.60	56.00	-11.40	QP
5	4.070	41.40	0.14	0.15	41.69	56.00	-14.31	QP
6	19.224	32.16	0.48	0.22	32.86	60.00	-27.14	QP

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.*

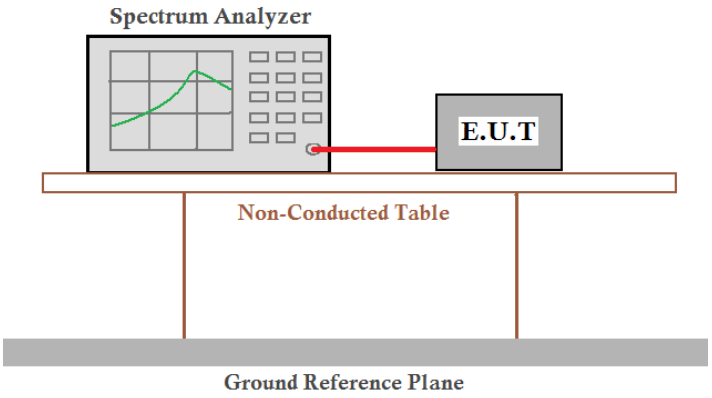
7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2009 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)		
Lowest	17.05	15.20	14.13	30.00	Pass
Middle	17.39	15.32	14.48		
Highest	17.57	15.55	14.58		

7.4 Channel Bandwidth

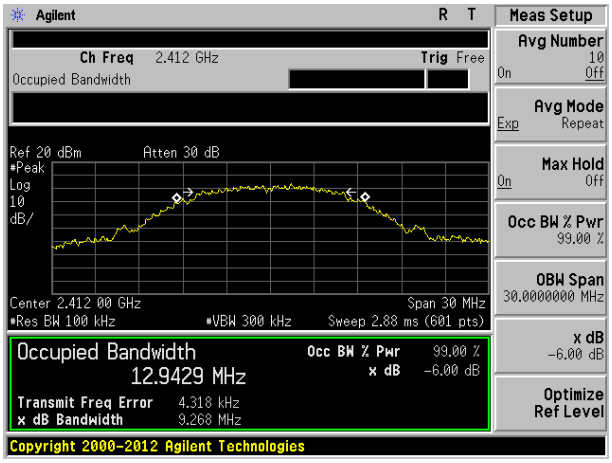
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2009 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

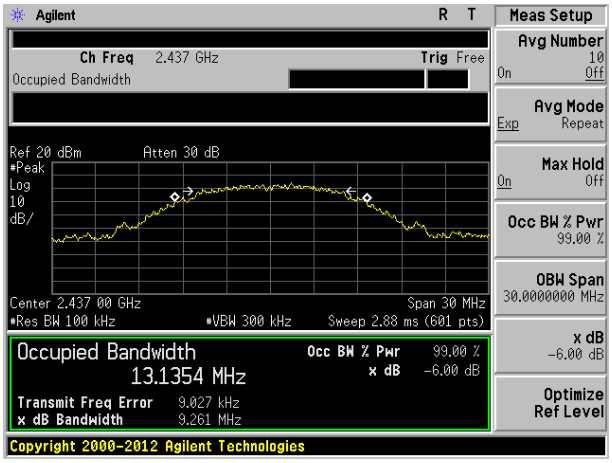
Test CH	Channel Bandwidth (MHz)			Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	9.268	16.477	17.707	>500	Pass
Middle	9.261	16.506	17.738		
Highest	9.281	16.470	17.703		

Test plot as follows:

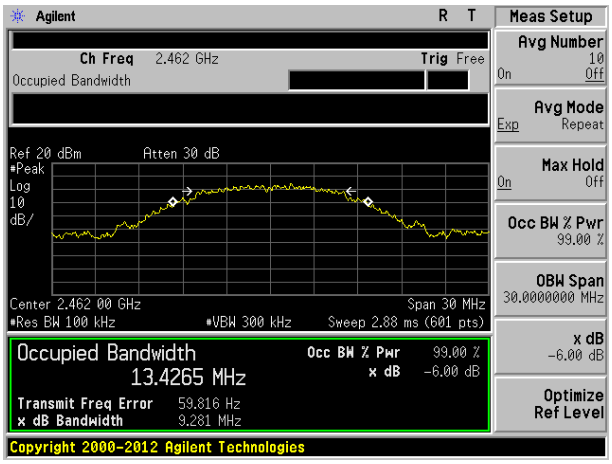
Test mode:	802.11b



Lowest channel

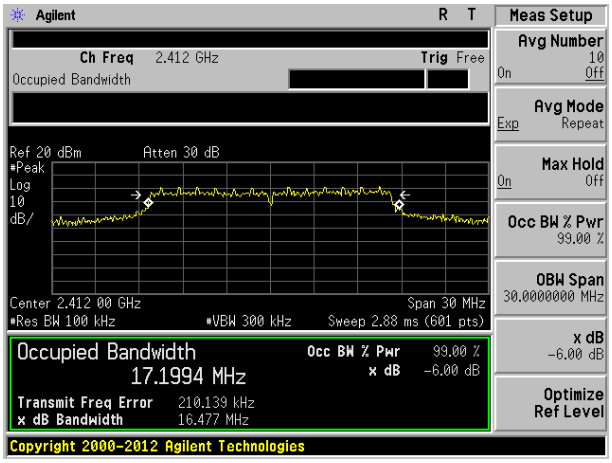


Middle channel

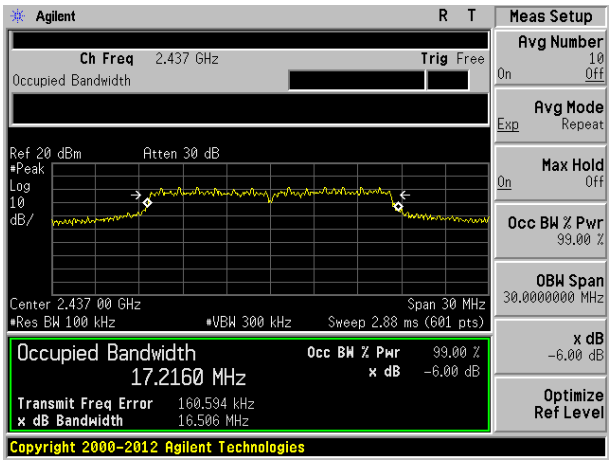


Highest channel

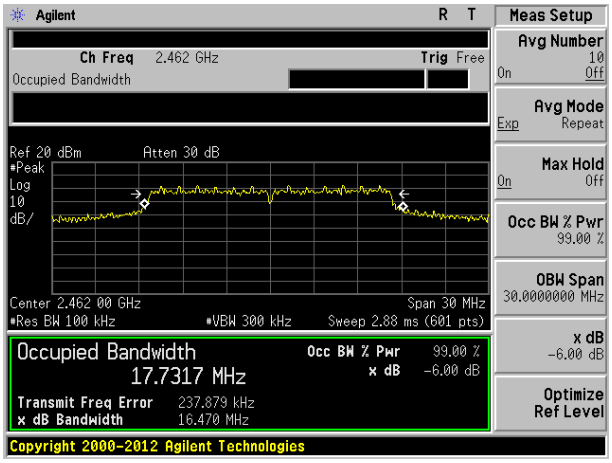
Test mode:	802.11g



Lowest channel

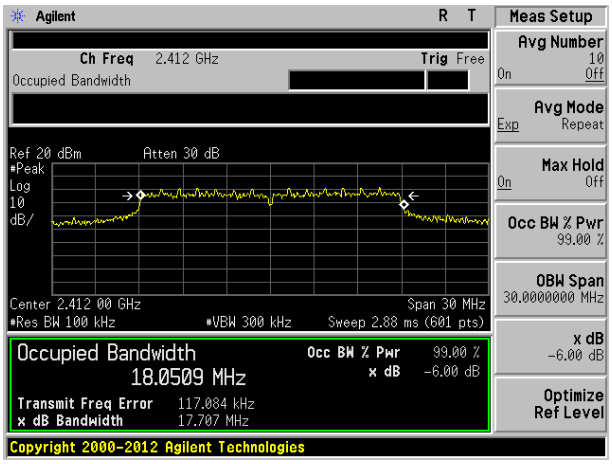


Middle channel

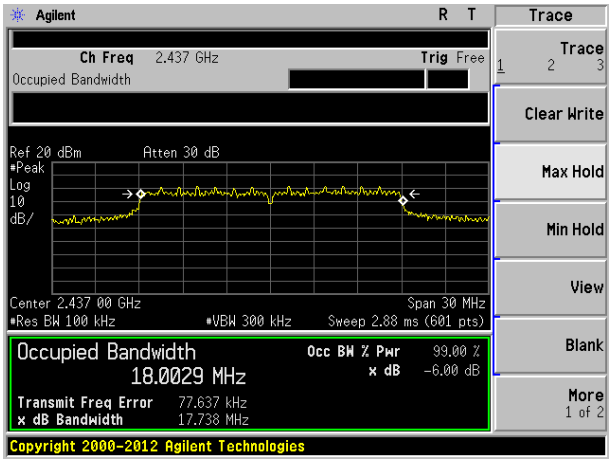


Highest channel

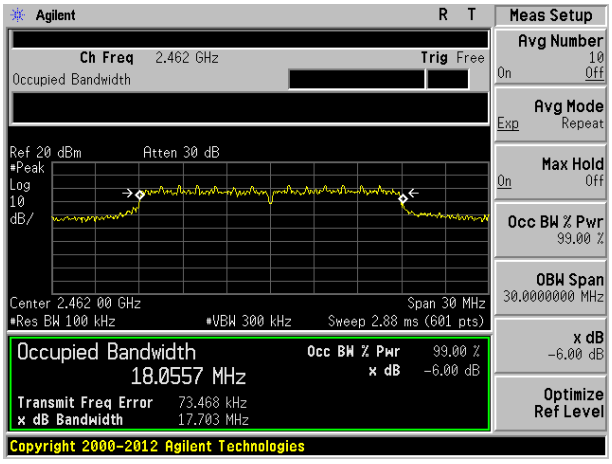
Test mode:	802.11n(HT20)



Lowest channel

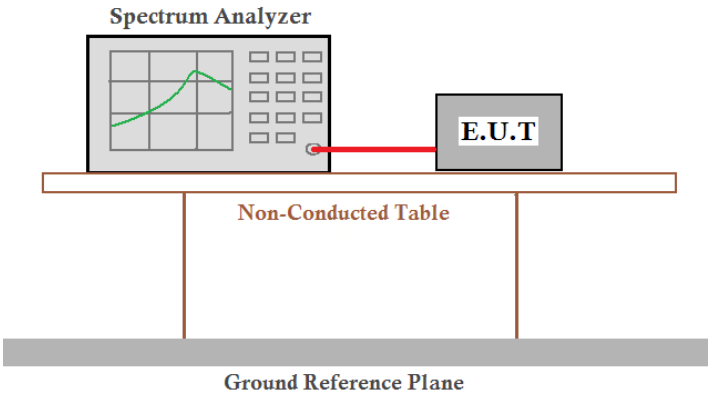


Middle channel



Highest channel

7.5 Power Spectral Density

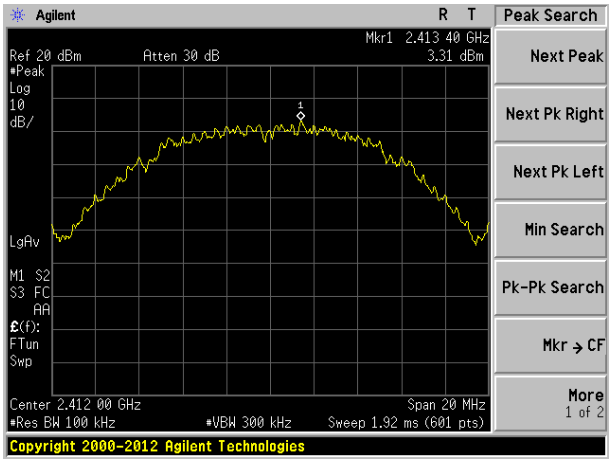
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2009 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

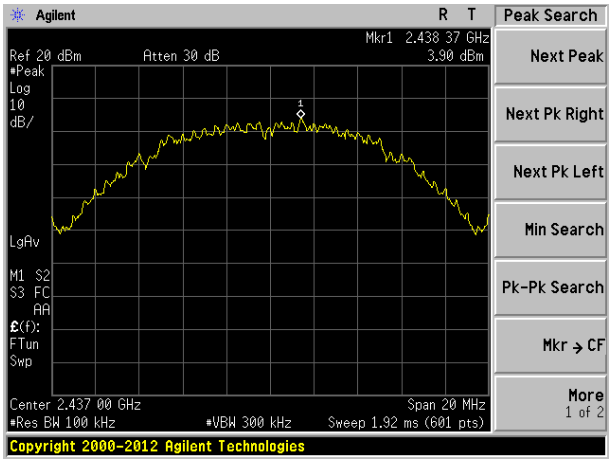
Test CH	Power Spectral Density (dBm)			Limit(dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	3.31	1.17	1.08	8.00	Pass
Middle	3.90	1.72	1.54		
Highest	4.38	1.96	2.25		

Test plot as follows:

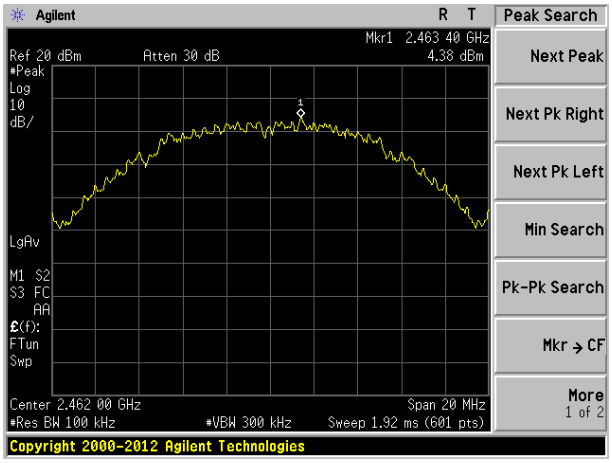
Test mode:	802.11b



Lowest channel

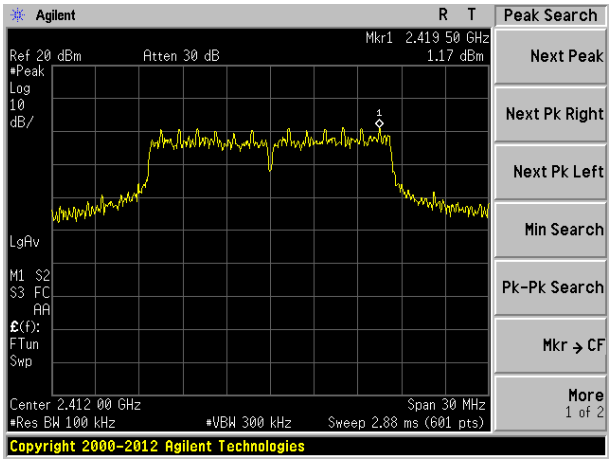


Middle channel

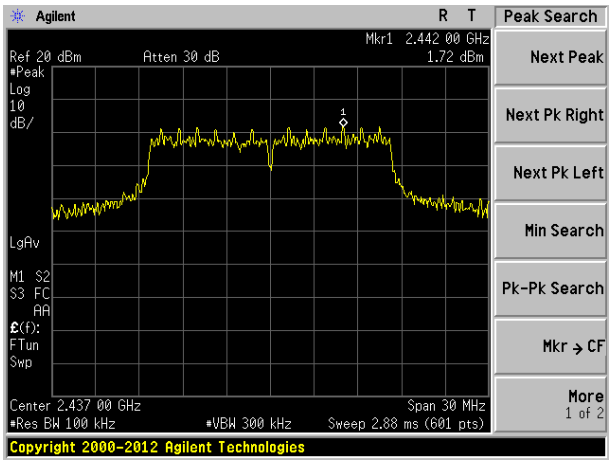


Highest channel

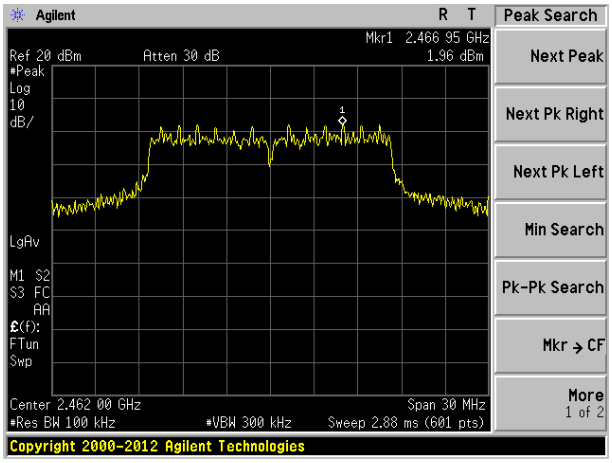
Test mode:	802.11g



Lowest channel

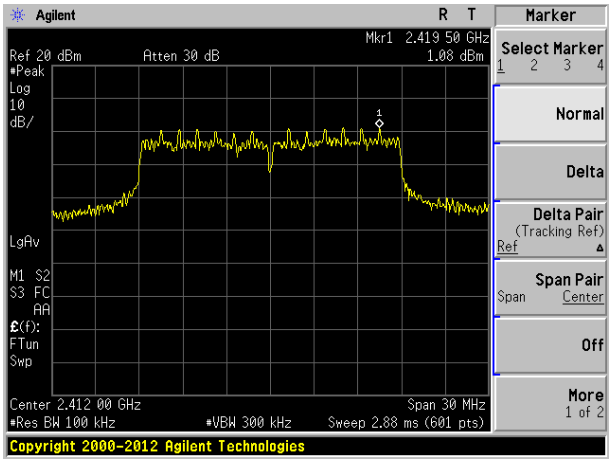


Middle channel

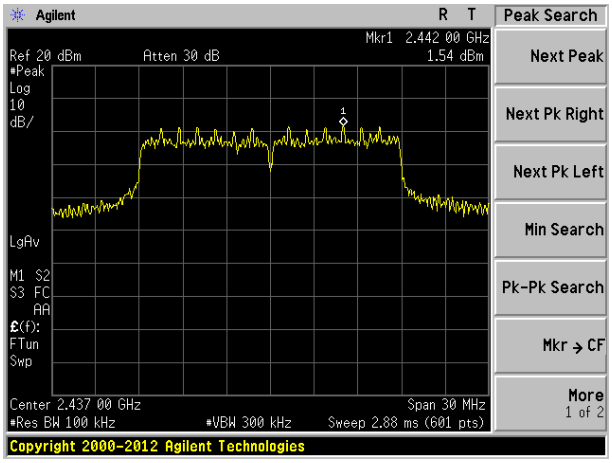


Highest channel

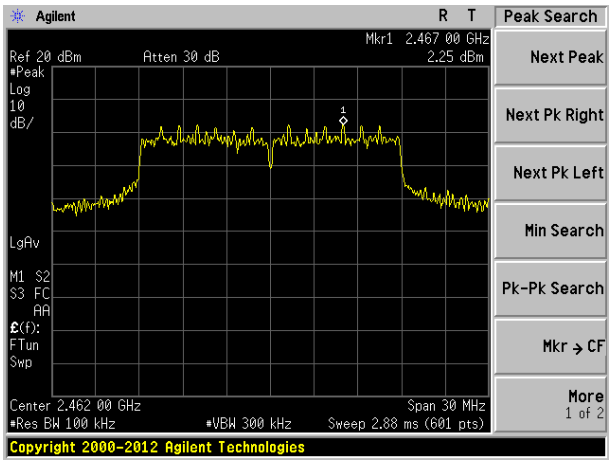
Test mode:	802.11n(HT20)



Lowest channel



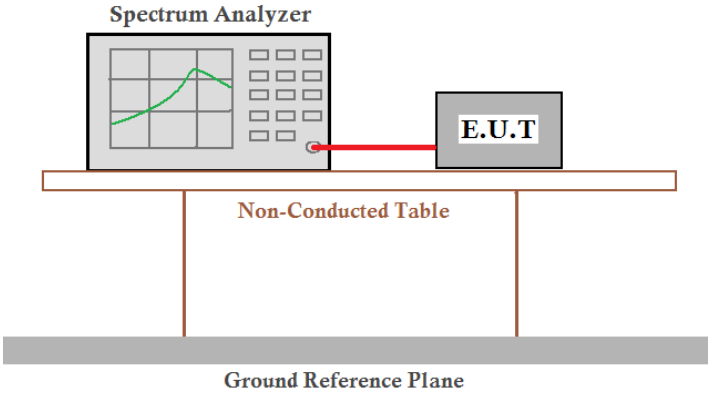
Middle channel



Highest channel

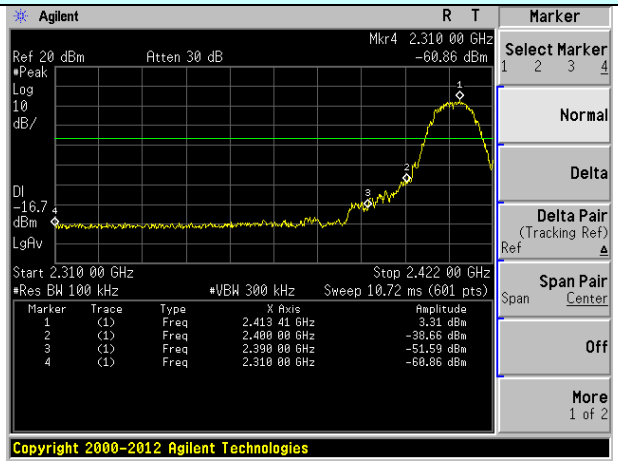
7.6 Band edges

7.6.1 Conducted Emission Method

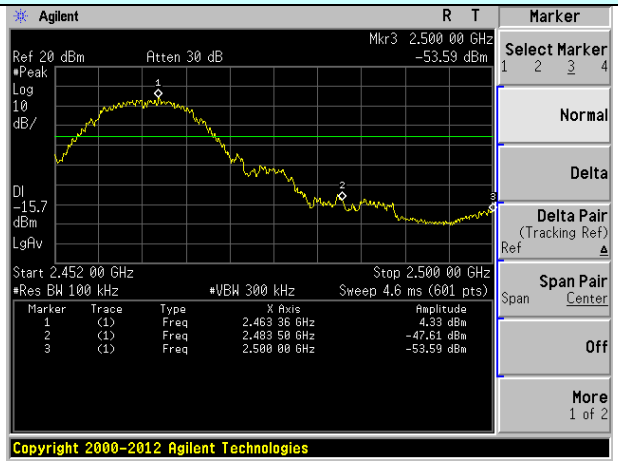
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009 and KDB558074 D01 DTS Meas Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional 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

Test plot as follows:

Test mode:	802.11b

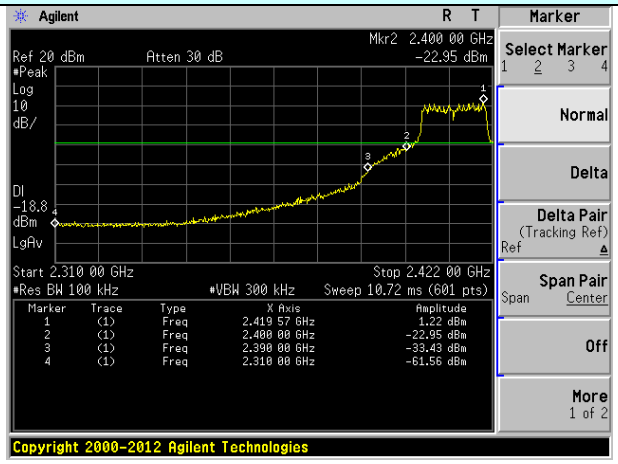


Lowest channel

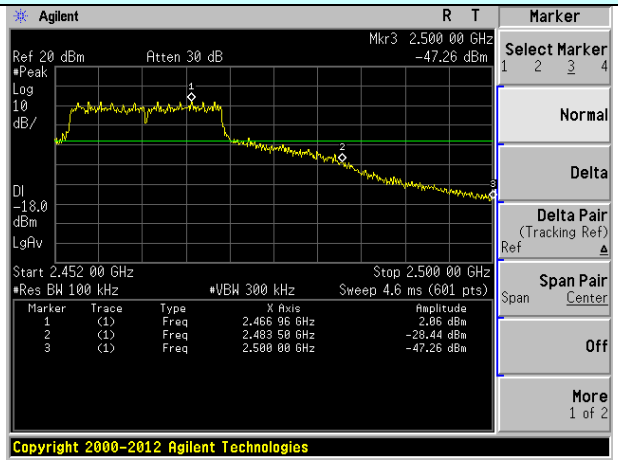


Highest channel

Test mode:	802.11g

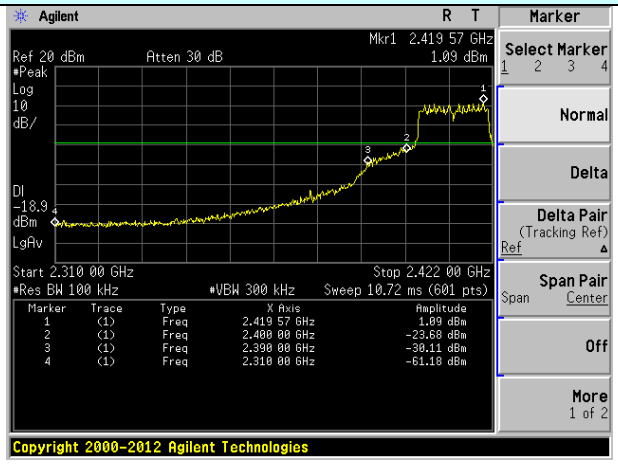


Lowest channel

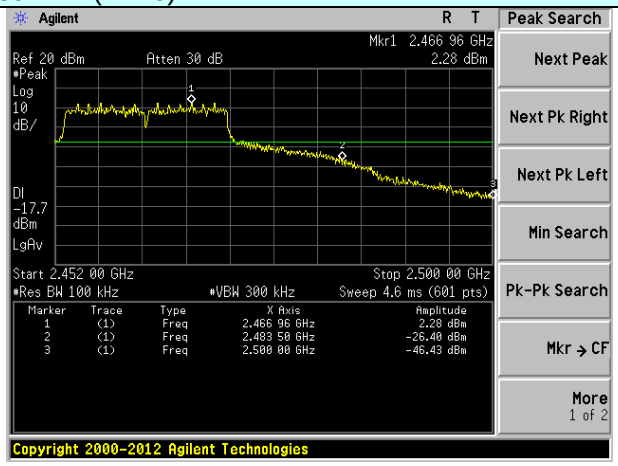


Highest channel

Test mode:	802.11n(HT20)



Lowest channel



Highest channel

7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10:2009
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

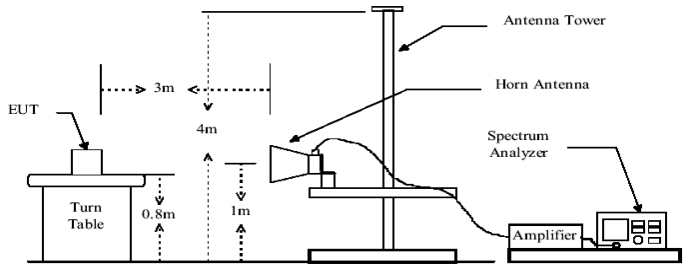
Receiver setup:

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:

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.
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

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
2390.00	51.39	27.59	5.38	34.01	50.35	74.00	-23.65	Horizontal
2400.00	60.32	27.58	5.39	34.01	59.28	74.00	-14.72	Horizontal
2390.00	53.05	27.59	5.38	34.01	52.01	74.00	-21.99	Vertical
2400.00	62.04	27.58	5.39	34.01	61.00	74.00	-13.00	Vertical

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
2390.00	38.23	27.59	5.38	34.01	37.19	54.00	-16.81	Horizontal
2400.00	46.49	27.58	5.39	34.01	45.45	54.00	-8.55	Horizontal
2390.00	40.02	27.59	5.38	34.01	38.98	54.00	-15.02	Vertical
2400.00	47.60	27.58	5.39	34.01	46.56	54.00	-7.44	Vertical

Test mode:	802.11b	Test channel:	Highest

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
2483.50	51.94	27.53	5.47	33.92	51.02	74.00	-22.98	Horizontal
2500.00	47.84	27.55	5.49	29.93	50.95	74.00	-23.05	Horizontal
2483.50	54.14	27.53	5.47	33.92	53.22	74.00	-20.78	Vertical
2500.00	50.31	27.55	5.49	29.93	53.42	74.00	-20.58	Vertical

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
2483.50	38.55	27.53	5.47	33.92	37.63	54.00	-16.37	Horizontal
2500.00	34.70	27.55	5.49	29.93	37.81	54.00	-16.19	Horizontal
2483.50	40.47	27.53	5.47	33.92	39.55	54.00	-14.45	Vertical
2500.00	36.57	27.55	5.49	29.93	39.68	54.00	-14.32	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.*

Test mode:	802.11g	Test channel:	Lowest

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
2390.00	50.46	27.59	5.38	34.01	49.42	74.00	-24.58	Horizontal
2400.00	59.07	27.58	5.39	34.01	58.03	74.00	-15.97	Horizontal
2390.00	52.06	27.59	5.38	34.01	51.02	74.00	-22.98	Vertical
2400.00	60.55	27.58	5.39	34.01	59.51	74.00	-14.49	Vertical

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
2390.00	37.56	27.59	5.38	34.01	36.52	54.00	-17.48	Horizontal
2400.00	45.73	27.58	5.39	34.01	44.69	54.00	-9.31	Horizontal
2390.00	39.29	27.59	5.38	34.01	38.25	54.00	-15.75	Vertical
2400.00	46.76	27.58	5.39	34.01	45.72	54.00	-8.28	Vertical

Test mode:	802.11g	Test channel:	Highest

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
2483.50	50.61	27.53	5.47	33.92	49.69	74.00	-24.31	Horizontal
2500.00	46.81	27.55	5.49	29.93	49.92	74.00	-24.08	Horizontal
2483.50	52.62	27.53	5.47	33.92	51.70	74.00	-22.30	Vertical
2500.00	49.10	27.55	5.49	29.93	52.21	74.00	-21.79	Vertical

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
2483.50	37.75	27.53	5.47	33.92	36.83	54.00	-17.17	Horizontal
2500.00	34.08	27.55	5.49	29.93	37.19	54.00	-16.81	Horizontal
2483.50	39.59	27.53	5.47	33.92	38.67	54.00	-15.33	Vertical
2500.00	35.91	27.55	5.49	29.93	39.02	54.00	-14.98	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.*

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

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
2390.00	49.82	27.59	5.38	34.01	48.78	74.00	-25.22	Horizontal
2400.00	58.22	27.58	5.39	34.01	57.18	74.00	-16.82	Horizontal
2390.00	51.38	27.59	5.38	34.01	50.34	74.00	-23.66	Vertical
2400.00	59.53	27.58	5.39	34.01	58.49	74.00	-15.51	Vertical

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
2390.00	37.11	27.59	5.38	34.01	36.07	54.00	-17.93	Horizontal
2400.00	45.21	27.58	5.39	34.01	44.17	54.00	-9.83	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

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

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
2483.50	49.70	27.53	5.47	33.92	48.78	74.00	-25.22	Horizontal
2500.00	46.11	27.55	5.49	29.93	49.22	74.00	-24.78	Horizontal
2483.50	51.58	27.53	5.47	33.92	50.66	74.00	-23.34	Vertical
2500.00	48.27	27.55	5.49	29.93	51.38	74.00	-22.62	Vertical

Average value:

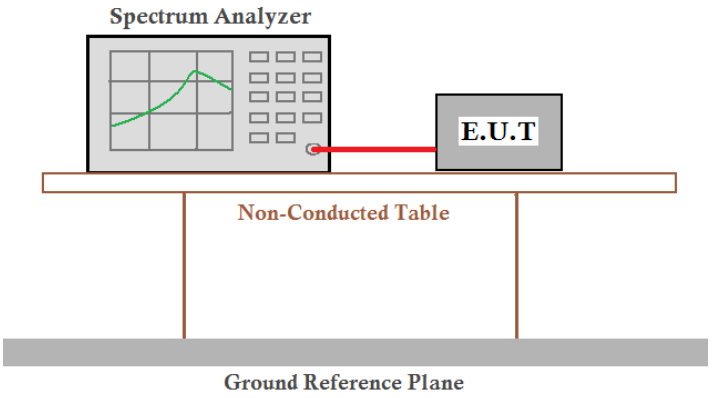
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.20	27.53	5.47	33.92	36.28	54.00	-17.72	Horizontal
2500.00	33.65	27.55	5.49	29.93	36.76	54.00	-17.24	Horizontal
2483.50	38.98	27.53	5.47	33.92	38.06	54.00	-15.94	Vertical
2500.00	35.46	27.55	5.49	29.93	38.57	54.00	-15.43	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.*

7.7 Spurious Emission

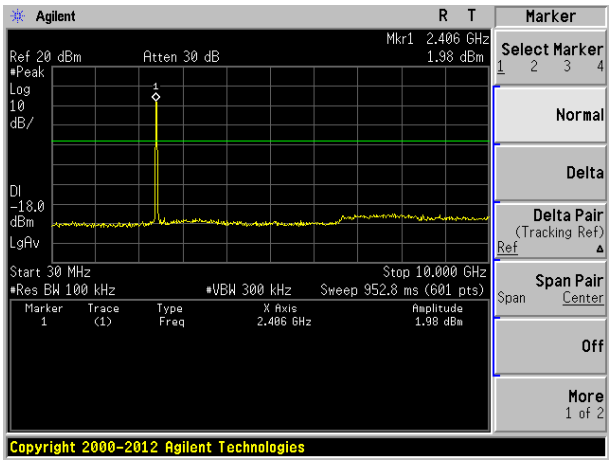
7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009 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

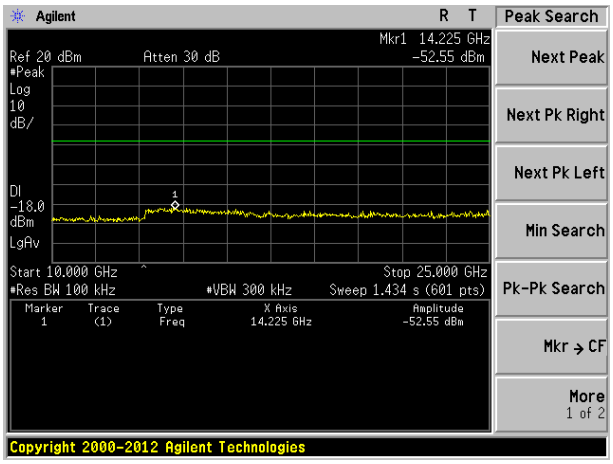
Test plot as follows:

Test mode:	802.11b

Lowest channel

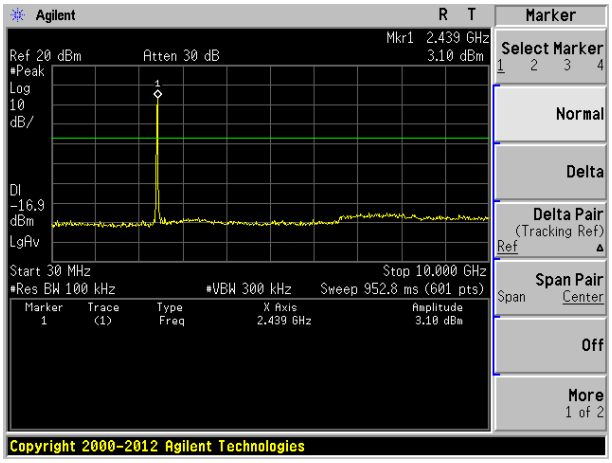


30MHz~10GHz

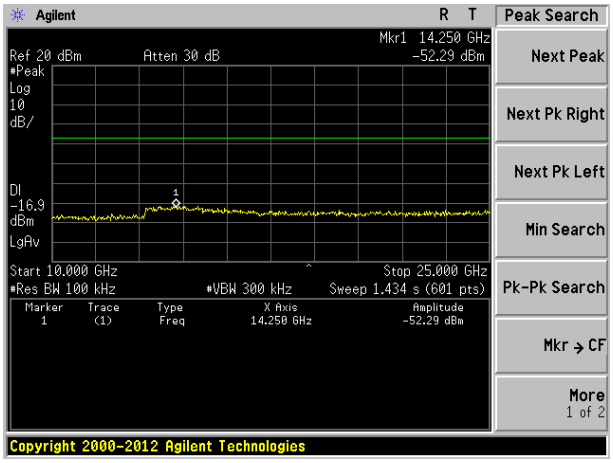


10GHz~25GHz

Middle channel

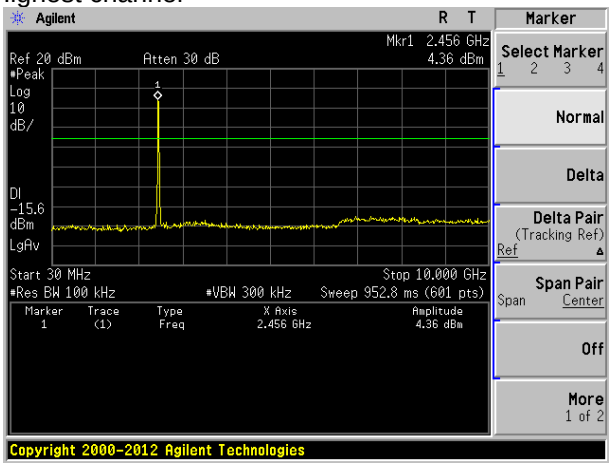


30MHz~10GHz

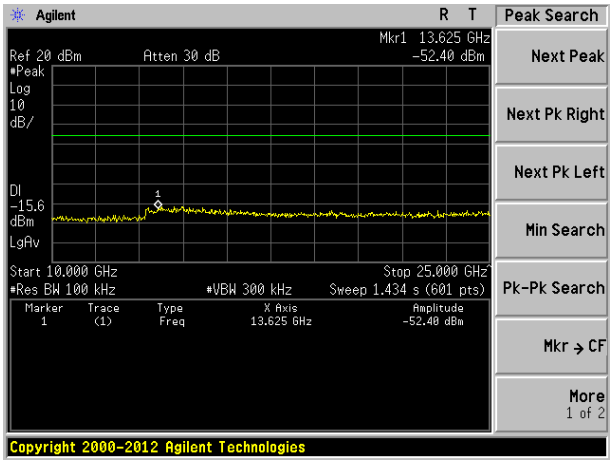


10GHz~25GHz

Highest channel



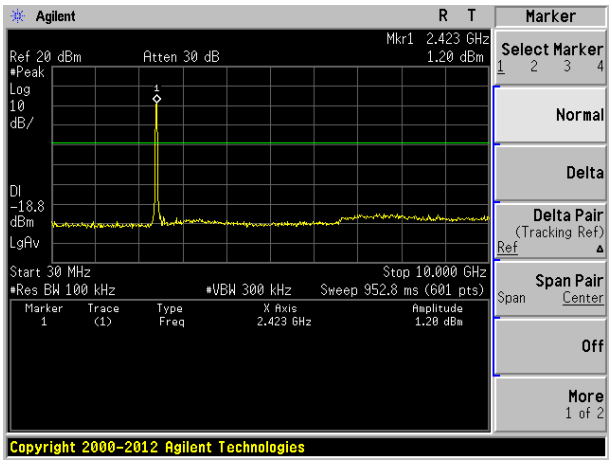
30MHz~10GHz



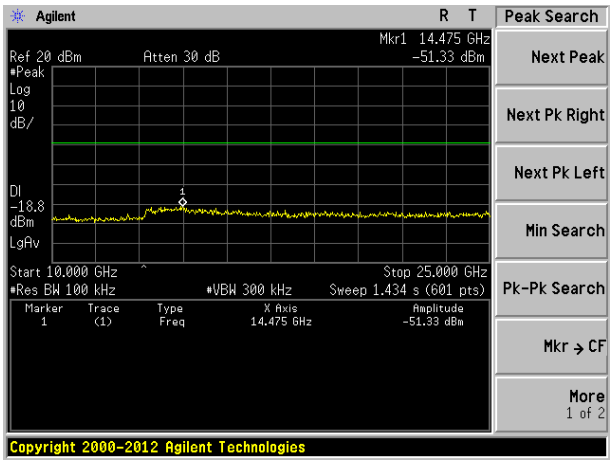
10GHz~25GHz

Test mode:	802.11g

Lowest channel

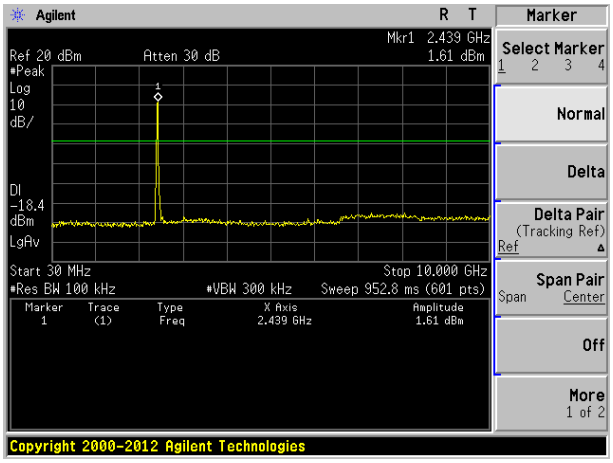


30MHz~10GHz

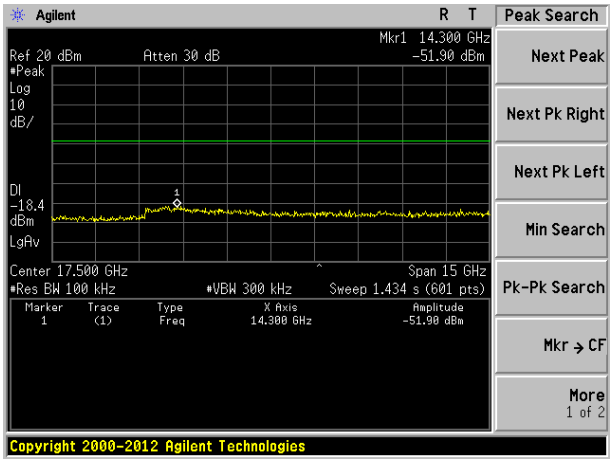


10GHz~25GHz

Middle channel

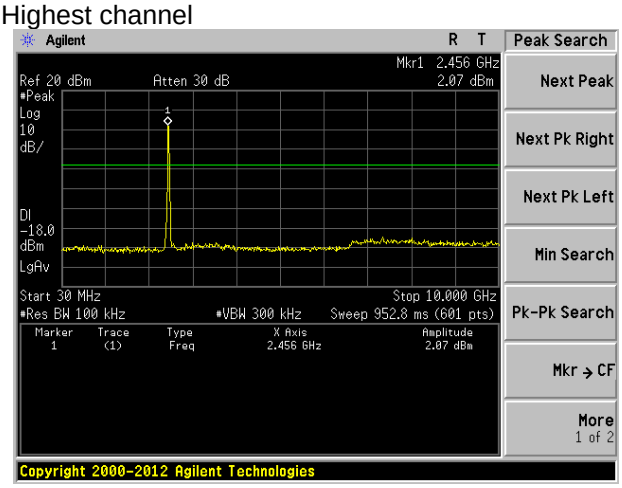


30MHz~10GHz

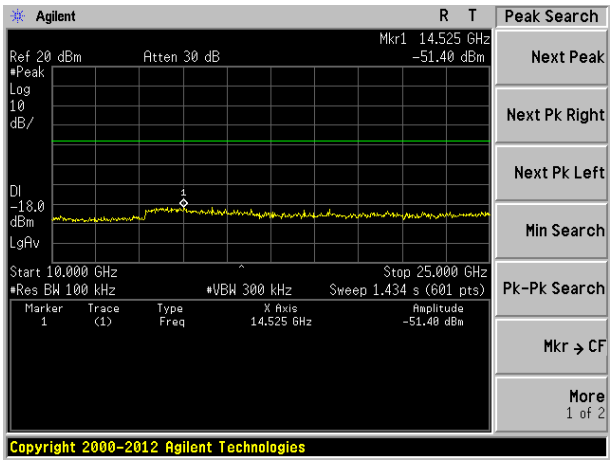


10GHz~25GHz

Highest channel



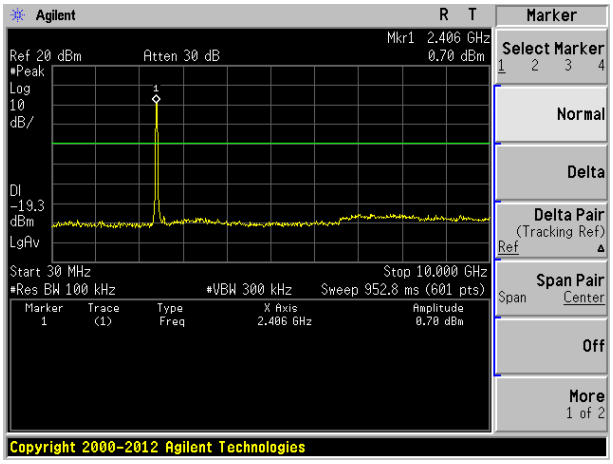
30MHz~10GHz



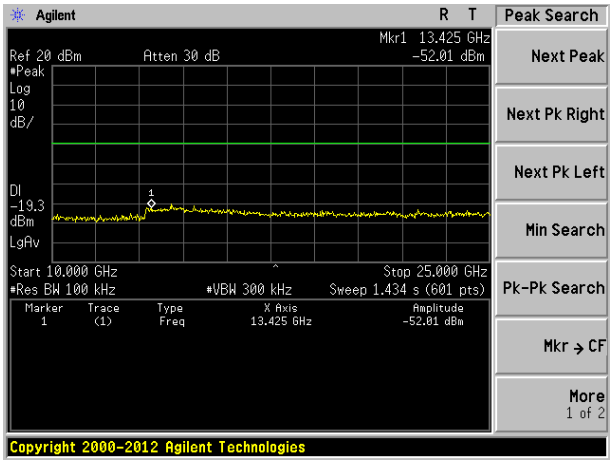
10GHz~25GHz

Test mode:	802.11n(HT20)

Lowest channel

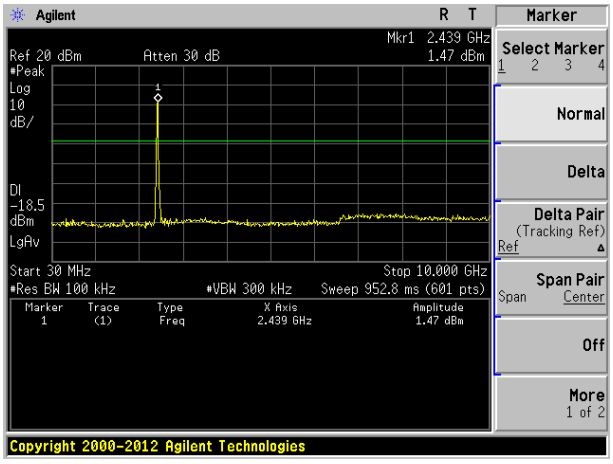


30MHz~10GHz

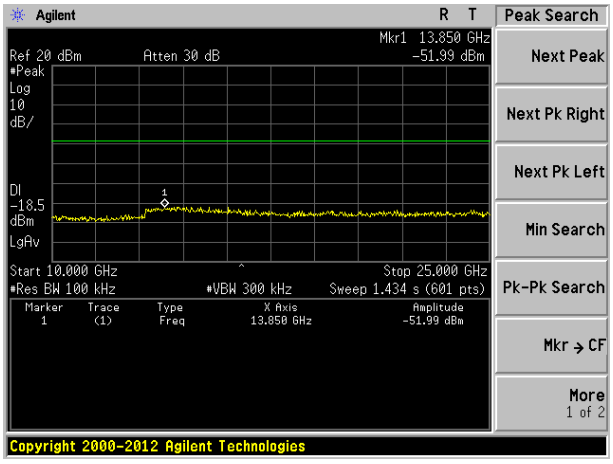


10GHz~25GHz

Middle channel

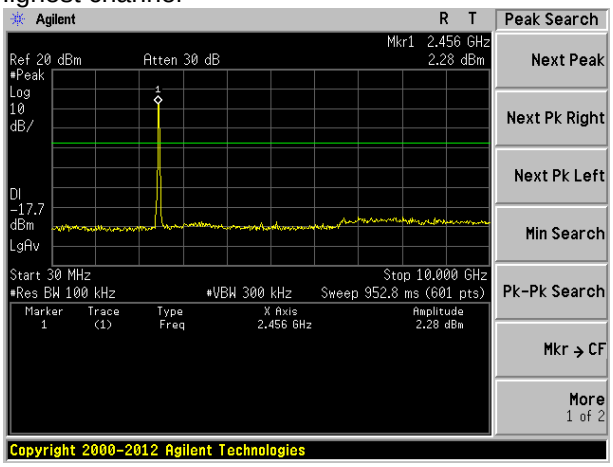


30MHz~10GHz

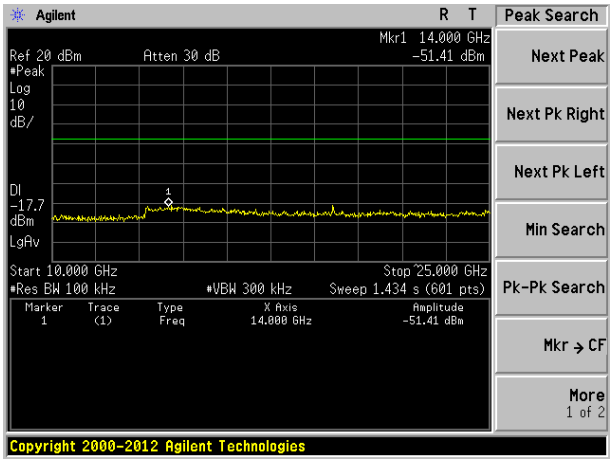


10GHz~25GHz

Highest channel

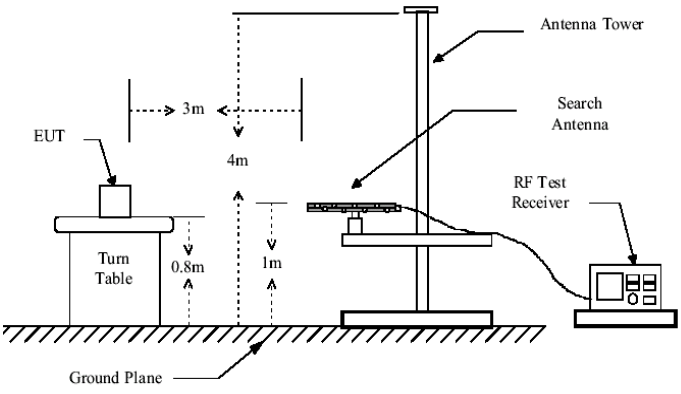


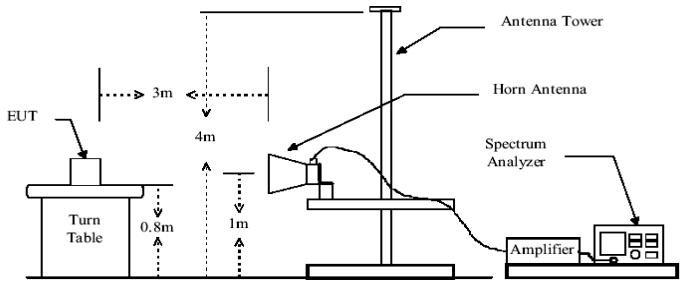
30MHz~10GHz



10GHz~25GHz

7.7.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2009</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 25GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>RMS</td><td>1MHz</td><td>3MHz</td><td>Average</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Value</td></tr>
<tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak</td></tr>
<tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak</td></tr>
<tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak</td></tr>
<tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average</td></tr>
<tr><td>74.00</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td>Below 1GHz
 

Above 1GHz
 

</td></tr>
</table>

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. 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

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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
38.08	29.94	15.11	0.64	30.05	15.64	40.00	-24.36	Vertical
56.40	31.71	14.93	0.83	29.95	17.52	40.00	-22.48	Vertical
111.74	27.15	13.94	1.29	29.62	12.76	43.50	-30.74	Vertical
252.95	28.29	14.06	2.14	29.66	14.83	46.00	-31.17	Vertical
543.27	25.94	19.46	3.50	29.30	19.60	46.00	-26.40	Vertical
651.94	25.99	20.65	3.92	29.25	21.31	46.00	-24.69	Vertical
39.44	26.09	15.44	0.65	30.05	12.13	40.00	-27.87	Horizontal
71.83	26.60	10.32	0.96	29.84	8.04	40.00	-31.96	Horizontal
132.69	30.30	10.72	1.45	29.50	12.97	43.50	-30.53	Horizontal
351.71	41.27	16.30	2.63	29.73	30.47	46.00	-15.53	Horizontal
552.88	25.90	19.62	3.53	29.30	19.75	46.00	-26.25	Horizontal
845.09	27.98	22.55	4.63	29.15	26.01	46.00	-19.99	Horizontal

■ **Above 1GHz**

Test mode:	802.11b	Test channel:	Lowest

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	40.77	31.79	8.62	32.10	49.08	74.00	-24.92	Vertical
7236.00	34.52	36.19	11.68	31.97	50.42	74.00	-23.58	Vertical
9648.00	32.93	38.07	14.16	31.56	53.60	74.00	-20.40	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.36	31.79	8.62	32.10	47.67	74.00	-26.33	Horizontal
7236.00	34.23	36.19	11.68	31.97	50.13	74.00	-23.87	Horizontal
9648.00	32.49	38.07	14.16	31.56	53.16	74.00	-20.84	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	29.81	31.79	8.62	32.10	38.12	54.00	-15.88	Vertical
7236.00	23.37	36.19	11.68	31.97	39.27	54.00	-14.73	Vertical
9648.00	23.27	38.07	14.16	31.56	43.94	54.00	-10.06	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.88	31.79	8.62	32.10	37.19	54.00	-16.81	Horizontal
7236.00	22.80	36.19	11.68	31.97	38.70	54.00	-15.30	Horizontal
9648.00	22.23	38.07	14.16	31.56	42.90	54.00	-11.10	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.*

Test mode:	802.11b	Test channel:	Middle

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	39.74	31.85	8.66	32.12	48.13	74.00	-25.87	Vertical
7311.00	34.54	36.37	11.71	31.91	50.71	74.00	-23.29	Vertical
9748.00	33.91	38.27	14.25	31.56	54.87	74.00	-19.13	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.16	31.85	8.66	32.12	48.55	74.00	-25.45	Horizontal
7311.00	33.15	36.37	11.71	31.91	49.32	74.00	-24.68	Horizontal
9748.00	33.79	38.27	14.25	31.56	54.75	74.00	-19.25	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	30.56	31.85	8.66	32.12	38.95	54.00	-15.05	Vertical
7311.00	22.84	36.37	11.71	31.91	39.01	54.00	-14.99	Vertical
9748.00	23.16	38.27	14.25	31.56	44.12	54.00	-9.88	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.25	31.85	8.66	32.12	38.64	54.00	-15.36	Horizontal
7311.00	22.23	36.37	11.71	31.91	38.40	54.00	-15.60	Horizontal
9748.00	23.49	38.27	14.25	31.56	44.45	54.00	-9.55	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.*

Test mode:	802.11b	Test channel:	Highest

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	45.55	31.90	8.70	32.15	54.00	74.00	-20.00	Vertical
7386.00	35.39	36.49	11.76	31.83	51.81	74.00	-22.19	Vertical
9848.00	37.33	38.62	14.31	31.77	58.49	74.00	-15.51	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.75	31.90	8.70	32.15	53.20	74.00	-20.80	Horizontal
7386.00	34.24	36.49	11.76	31.83	50.66	74.00	-23.34	Horizontal
9848.00	33.48	38.62	14.31	31.77	54.64	74.00	-19.36	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	36.42	31.90	8.70	32.15	44.87	54.00	-9.13	Vertical
7386.00	25.29	36.49	11.76	31.83	41.71	54.00	-12.29	Vertical
9848.00	25.82	38.62	14.31	31.77	46.98	54.00	-7.02	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.08	31.90	8.70	32.15	43.53	54.00	-10.47	Horizontal
7386.00	23.62	36.49	11.76	31.83	40.04	54.00	-13.96	Horizontal
9848.00	22.73	38.62	14.31	31.77	43.89	54.00	-10.11	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.*

Test mode:	802.11g	Test channel:	lowest

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	39.88	31.79	8.62	32.10	48.19	74.00	-25.81	Vertical
7236.00	33.96	36.19	11.68	31.97	49.86	74.00	-24.14	Vertical
9648.00	32.53	38.07	14.16	31.56	53.20	74.00	-20.80	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.62	31.79	8.62	32.10	46.93	74.00	-27.07	Horizontal
7236.00	33.74	36.19	11.68	31.97	49.64	74.00	-24.36	Horizontal
9648.00	32.12	38.07	14.16	31.56	52.79	74.00	-21.21	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	29.00	31.79	8.62	32.10	37.31	54.00	-16.69	Vertical
7236.00	22.83	36.19	11.68	31.97	38.73	54.00	-15.27	Vertical
9648.00	22.88	38.07	14.16	31.56	43.55	54.00	-10.45	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.17	31.79	8.62	32.10	36.48	54.00	-17.52	Horizontal
7236.00	22.33	36.19	11.68	31.97	38.23	54.00	-15.77	Horizontal
9648.00	21.87	38.07	14.16	31.56	42.54	54.00	-11.46	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.*

Test mode:	802.11g	Test channel:	Middle

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	39.01	31.85	8.66	32.12	47.40	74.00	-26.60	Vertical
7311.00	34.07	36.37	11.71	31.91	50.24	74.00	-23.76	Vertical
9748.00	33.58	38.27	14.25	31.56	54.54	74.00	-19.46	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.54	31.85	8.66	32.12	47.93	74.00	-26.07	Horizontal
7311.00	32.74	36.37	11.71	31.91	48.91	74.00	-25.09	Horizontal
9748.00	33.48	38.27	14.25	31.56	54.44	74.00	-19.56	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	29.89	31.85	8.66	32.12	38.28	54.00	-15.72	Vertical
7311.00	22.40	36.37	11.71	31.91	38.57	54.00	-15.43	Vertical
9748.00	22.84	38.27	14.25	31.56	43.80	54.00	-10.20	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.67	31.85	8.66	32.12	38.06	54.00	-15.94	Horizontal
7311.00	21.84	36.37	11.71	31.91	38.01	54.00	-15.99	Horizontal
9748.00	23.20	38.27	14.25	31.56	44.16	54.00	-9.84	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.*

Test mode:	802.11g	Test channel:	Highest

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	44.29	31.90	8.70	32.15	52.74	74.00	-21.26	Vertical
7386.00	34.59	36.49	11.76	31.83	51.01	74.00	-22.99	Vertical
9848.00	36.76	38.62	14.31	31.77	57.92	74.00	-16.08	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.69	31.90	8.70	32.15	52.14	74.00	-21.86	Horizontal
7386.00	33.54	36.49	11.76	31.83	49.96	74.00	-24.04	Horizontal
9848.00	32.95	38.62	14.31	31.77	54.11	74.00	-19.89	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	35.25	31.90	8.70	32.15	43.70	54.00	-10.30	Vertical
7386.00	24.52	36.49	11.76	31.83	40.94	54.00	-13.06	Vertical
9848.00	25.28	38.62	14.31	31.77	46.44	54.00	-7.56	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.08	31.90	8.70	32.15	42.53	54.00	-11.47	Horizontal
7386.00	22.94	36.49	11.76	31.83	39.36	54.00	-14.64	Horizontal
9848.00	22.22	38.62	14.31	31.77	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.*

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

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	40.50	31.79	8.62	32.10	48.81	74.00	-25.19	Vertical
7236.00	34.35	36.19	11.68	31.97	50.25	74.00	-23.75	Vertical
9648.00	32.81	38.07	14.16	31.56	53.48	74.00	-20.52	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.14	31.79	8.62	32.10	47.45	74.00	-26.55	Horizontal
7236.00	34.08	36.19	11.68	31.97	49.98	74.00	-24.02	Horizontal
9648.00	32.38	38.07	14.16	31.56	53.05	74.00	-20.95	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	29.57	31.79	8.62	32.10	37.88	54.00	-16.12	Vertical
7236.00	23.21	36.19	11.68	31.97	39.11	54.00	-14.89	Vertical
9648.00	23.15	38.07	14.16	31.56	43.82	54.00	-10.18	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.67	31.79	8.62	32.10	36.98	54.00	-17.02	Horizontal
7236.00	22.66	36.19	11.68	31.97	38.56	54.00	-15.44	Horizontal
9648.00	22.12	38.07	14.16	31.56	42.79	54.00	-11.21	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.*

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

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	39.52	31.85	8.66	32.12	47.91	74.00	-26.09	Vertical
7311.00	34.40	36.37	11.71	31.91	50.57	74.00	-23.43	Vertical
9748.00	33.81	38.27	14.25	31.56	54.77	74.00	-19.23	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.97	31.85	8.66	32.12	48.36	74.00	-25.64	Horizontal
7311.00	33.03	36.37	11.71	31.91	49.20	74.00	-24.80	Horizontal
9748.00	33.69	38.27	14.25	31.56	54.65	74.00	-19.35	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	30.36	31.85	8.66	32.12	38.75	54.00	-15.25	Vertical
7311.00	22.71	36.37	11.71	31.91	38.88	54.00	-15.12	Vertical
9748.00	23.06	38.27	14.25	31.56	44.02	54.00	-9.98	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.08	31.85	8.66	32.12	38.47	54.00	-15.53	Horizontal
7311.00	22.11	36.37	11.71	31.91	38.28	54.00	-15.72	Horizontal
9748.00	23.41	38.27	14.25	31.56	44.37	54.00	-9.63	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.*

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

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	45.18	31.90	8.70	32.15	53.63	74.00	-20.37	4924.00
7386.00	35.15	36.49	11.76	31.83	51.57	74.00	-22.43	7386.00
9848.00	37.16	38.62	14.31	31.77	58.32	74.00	-15.68	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.44	31.90	8.70	32.15	52.89	74.00	-21.11	Horizontal
7386.00	34.03	36.49	11.76	31.83	50.45	74.00	-23.55	Horizontal
9848.00	33.32	38.62	14.31	31.77	54.48	74.00	-19.52	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	36.07	31.90	8.70	32.15	44.52	54.00	-9.48	Vertical
7386.00	25.06	36.49	11.76	31.83	41.48	54.00	-12.52	Vertical
9848.00	25.66	38.62	14.31	31.77	46.82	54.00	-7.18	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.78	31.90	8.70	32.15	43.23	54.00	-10.77	Horizontal
7386.00	23.41	36.49	11.76	31.83	39.83	54.00	-14.17	Horizontal
9848.00	22.58	38.62	14.31	31.77	43.74	54.00	-10.26	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

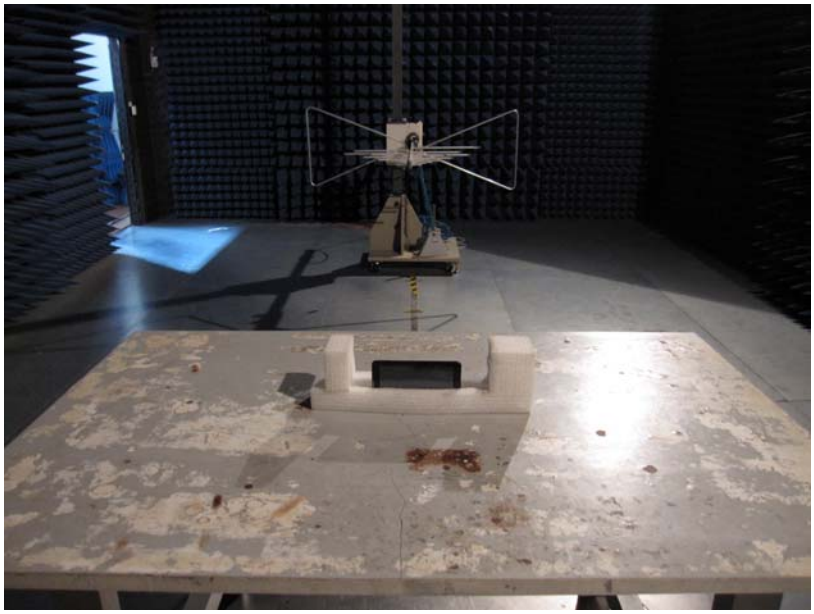
Remark:

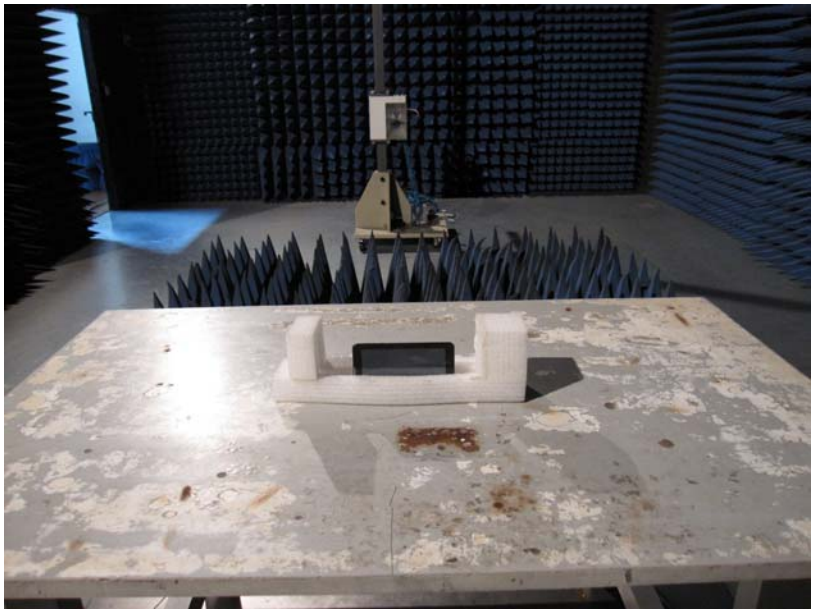
1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2 "", means this data is the too weak instrument of signal is unable to test.*

8 Test Setup Photo

Radiated Emission





Conducted Emission

9 EUT Constructional Details

Reference to the test report No. GTSE15050083501

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