

FCC REPORT

Applicant: Connect One Ltd.

Address of Applicant: 20 Atir Yeda Street, Kfar Saba 44643 Israel

Equipment Under Test (EUT)

Product Name: C1 Wireless b/g baseband

Model No.: MDLWMGMR09

FCC ID: XM5-MDLWMGMR09

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2012

Date of sample receipt: January 06, 2014

Date of Test: January 06-13, 2014

Date of report issued: January 14, 2014

Test Result : PASS *

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

Authorized Signature:

A circular blue ink stamp from GTS Global Testing is visible. The stamp contains the text "GLOBAL TECHNOLOGY SERVICES CO.", "GTS", and "GLOBAL TESTING". A handwritten signature in black ink is written across the stamp.

Robinson Lo

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 GTS 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	January 14, 2014	Original

Prepared By: Hank. Yan **Date:** January 14, 2014
Project Engineer

Check By: Hans. Hu **Date:** January 14, 2014
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.

5 General Information

5.1 Client Information

Applicant:	Connect One Ltd.
Address of Applicant:	20 Atir Yeda Street, Kfar Saba 44643 Israel
Manufacturer/Factory:	Connect One Ltd.
Address of Manufacturer/ Factory:	20 Atir Yeda Street, Kfar Saba 44643 Israel

5.2 General Description of EUT

Product Name:	C1 Wireless b/g baseband
Model No.:	MDLWMGMR09
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g)
Channel numbers:	11 for 802.11b/802.11g
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing(OFDM)
Antenna Type:	Dedicated Antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	D.C 3.3V

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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>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.</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
Data rate	1Mbps	6Mbps

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
IBM	Notebook	T42	GTS209	DoC
IBM	AC Adapter	92P1024	N/A	DoC

5.5 Test Facility

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

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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 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: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

6 Test Instruments list

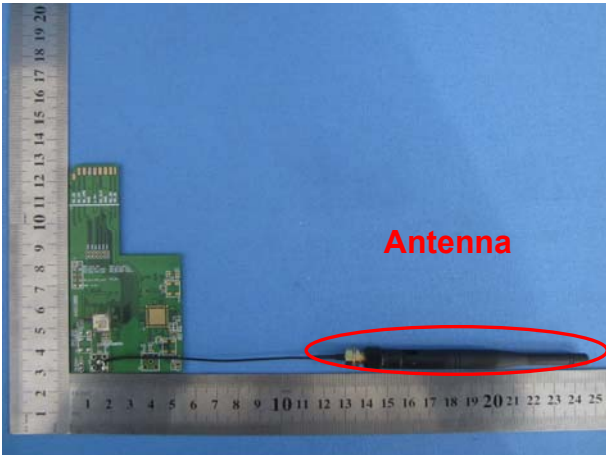
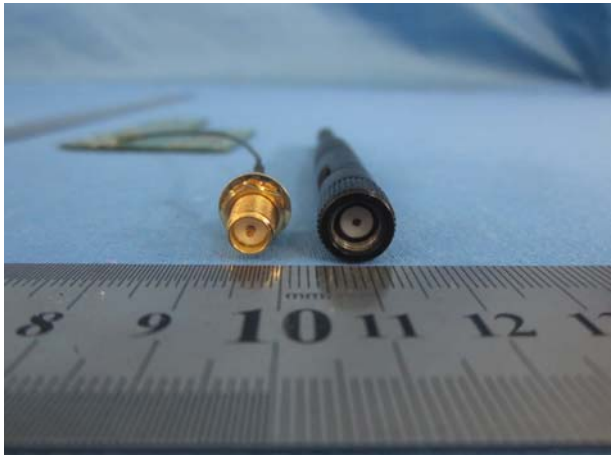
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2013	Mar. 28 2014
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 5, 2013	Dec. 4 2014
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 24 2013	Feb. 23 2014
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 29 2013	Mar. 28 2014
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 30 2013	Mar. 29 2014
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 30 2013	Mar. 29 2014
11	Coaxial cable	GTS	N/A	GTS210	Mar. 30 2013	Mar. 29 2014
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 30 2013	Mar. 29 2014
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2013	Jul. 01 2014
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2013	Jul. 01 2014
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2013	June 27 2014
16	Band filter	Amindeon	82346	GTS219	Mar. 30 2013	Mar. 29 2014

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	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	Jul. 02 2013	Jul. 01 2014
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2013	Jul. 01 2014
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2013	Jul. 01 2014
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2013	Jul. 01 2014
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2013	Jul. 01 2014
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

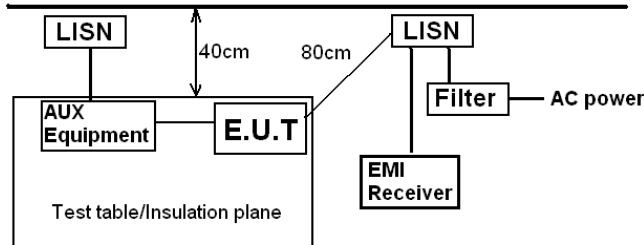
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 09 2013	July 08 2014

7 Test results and Measurement Data

7.1 Antenna requirement:

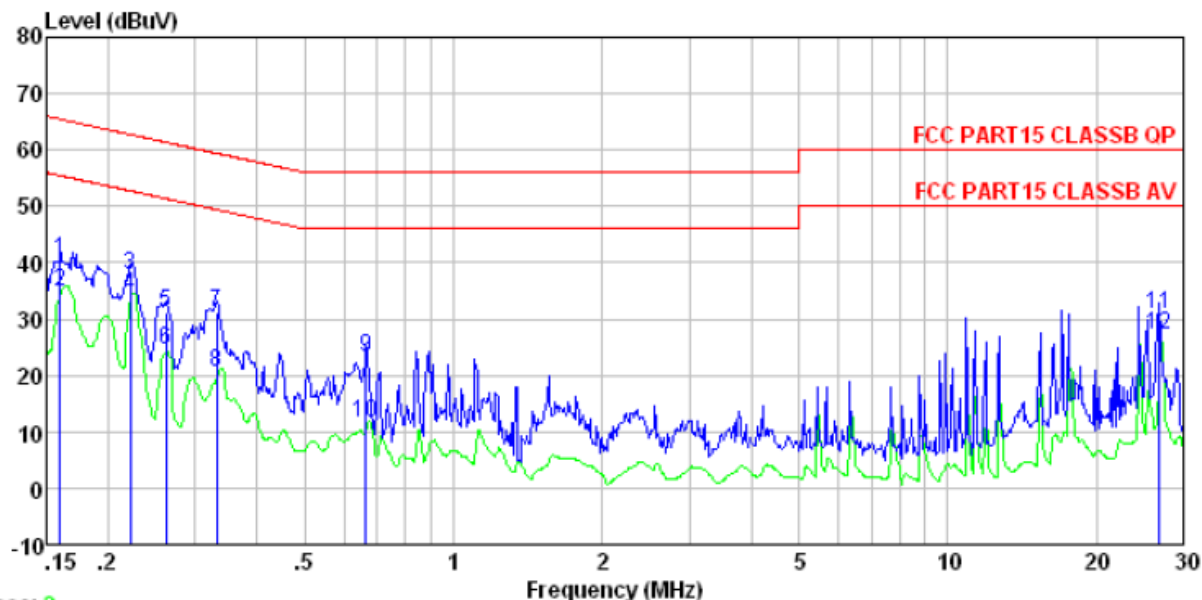
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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:	
<i>The antenna is Dedicated Antenna, the best case gain of the antenna is 2.0dBi</i>  	

7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4:2003														
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> * Decreases with the logarithm of the frequency.	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test setup:	Reference Plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedance 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 C63.4: 2003 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:



Trace: 2

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

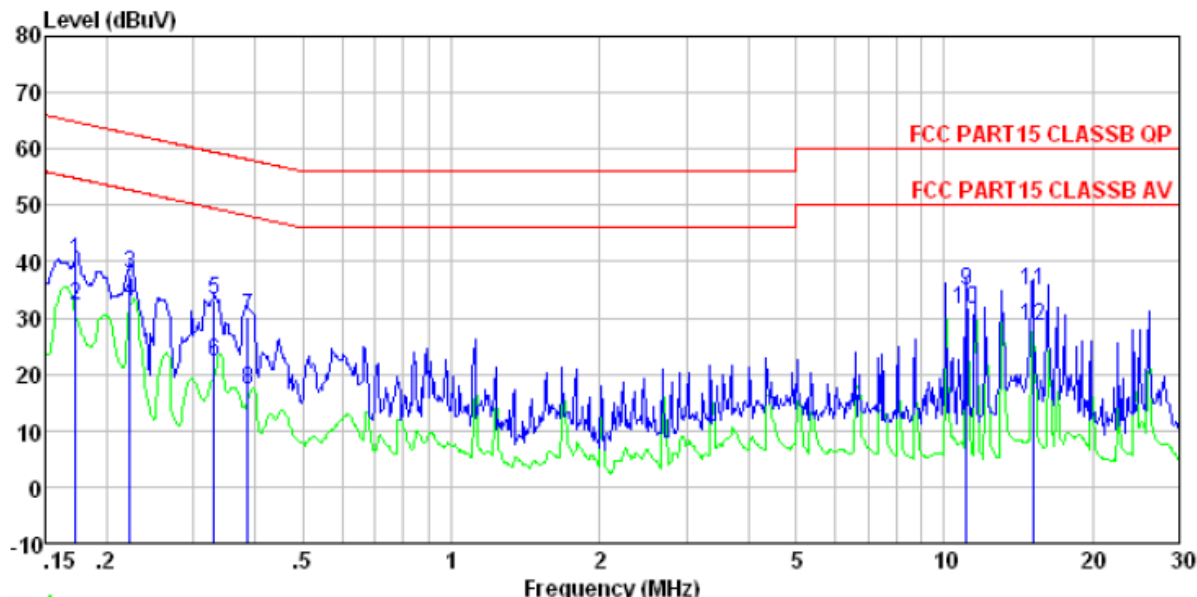
Job No. : 2028RF

Test mode : WiFi mode

Test Engineer: Bing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.160	40.34	0.15	0.12	40.61	65.47	-24.86	QP
2	0.160	34.61	0.15	0.12	34.88	55.47	-20.59	Average
3	0.222	37.67	0.13	0.12	37.92	62.74	-24.82	QP
4	0.222	33.92	0.13	0.12	34.17	52.74	-18.57	Average
5	0.262	31.03	0.11	0.11	31.25	61.38	-30.13	QP
6	0.262	24.26	0.11	0.11	24.48	51.38	-26.90	Average
7	0.332	31.02	0.11	0.10	31.23	59.40	-28.17	QP
8	0.332	20.24	0.11	0.10	20.45	49.40	-28.95	Average
9	0.665	22.94	0.14	0.13	23.21	56.00	-32.79	QP
10	0.665	11.21	0.14	0.13	11.48	46.00	-34.52	Average
11	26.841	29.62	1.01	0.23	30.86	60.00	-29.14	QP
12	26.841	25.86	1.01	0.23	27.10	50.00	-22.90	Average

Neutral:



Trace: 4

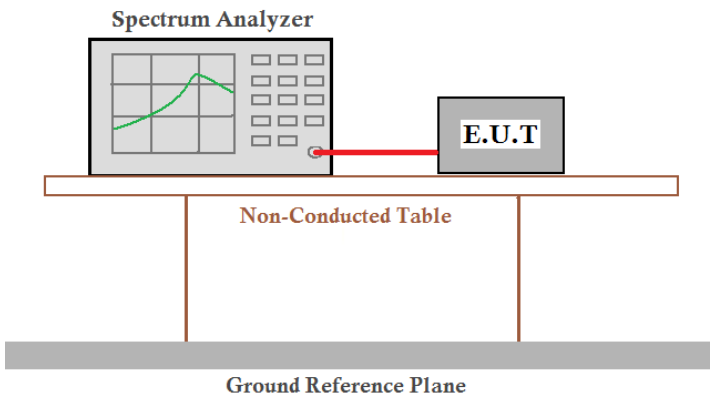
Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL
 Job No. : 2028RF
 Test mode : WiFi mode
 Test Engineer: Bing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.173	39.91	0.07	0.12	40.10	64.81	-24.71	QP
2	0.173	32.11	0.07	0.12	32.30	54.81	-22.51	Average
3	0.223	37.60	0.06	0.12	37.78	62.70	-24.92	QP
4	0.223	32.78	0.06	0.12	32.96	52.70	-19.74	Average
5	0.330	32.91	0.06	0.10	33.07	59.44	-26.37	QP
6	0.330	22.07	0.06	0.10	22.23	49.44	-27.21	Average
7	0.387	29.93	0.06	0.11	30.10	58.12	-28.02	QP
8	0.387	17.09	0.06	0.11	17.26	48.12	-30.86	Average
9	11.080	34.39	0.29	0.20	34.88	60.00	-25.12	QP
10	11.080	30.87	0.29	0.20	31.36	50.00	-18.64	Average
11	15.146	34.40	0.33	0.22	34.95	60.00	-25.05	QP
12	15.146	27.96	0.33	0.22	28.51	50.00	-21.49	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

7.3 Conducted Peak Output Power

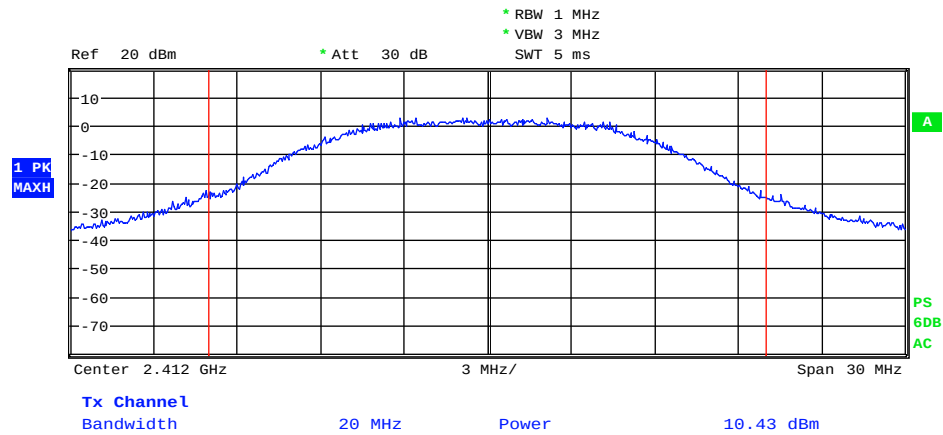
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

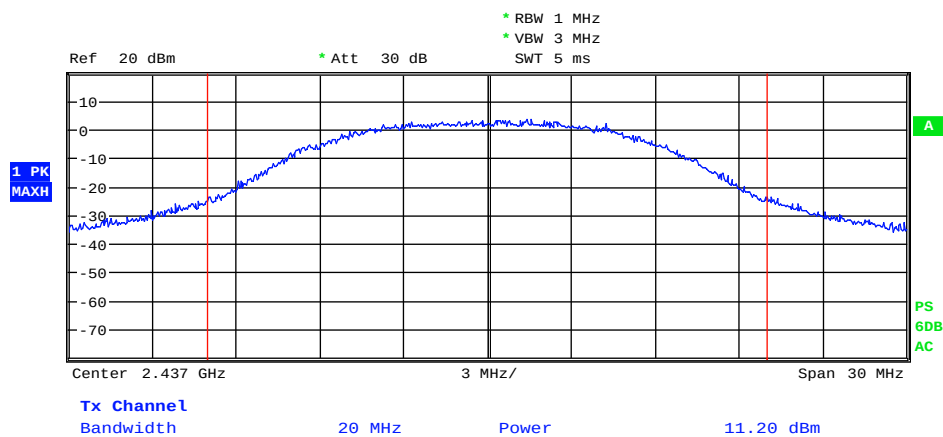
Test CH	Peak Output Power (dBm)		Limit(dBm)	Result
	802.11b	802.11g		
Lowest	10.43	11.51	30.00	Pass
Middle	11.20	11.49		
Highest	11.45	11.68		

Test plot as follows:

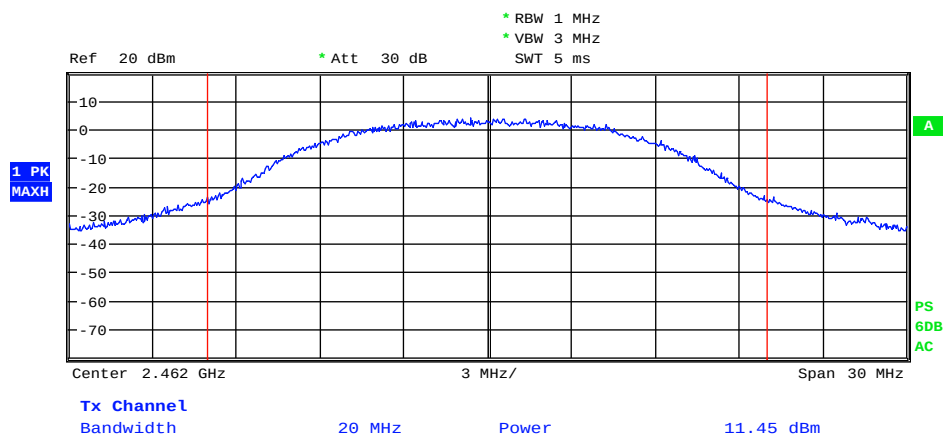
Test mode:	802.11b
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Lowest channel

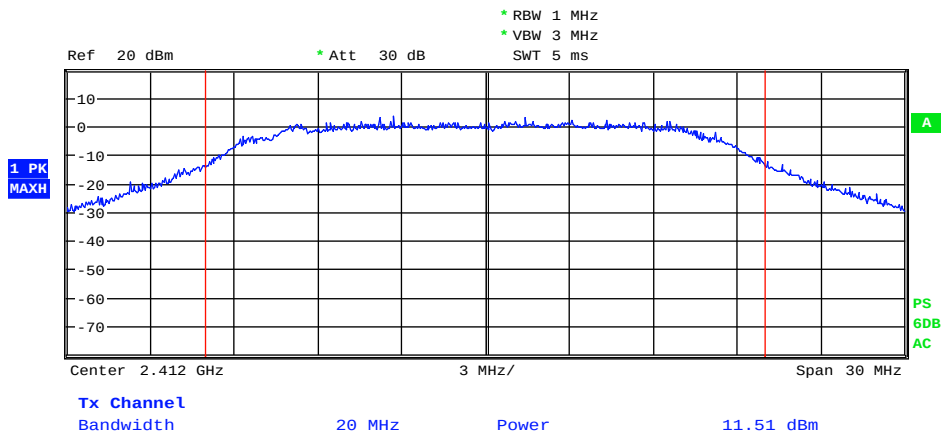


Middle channel

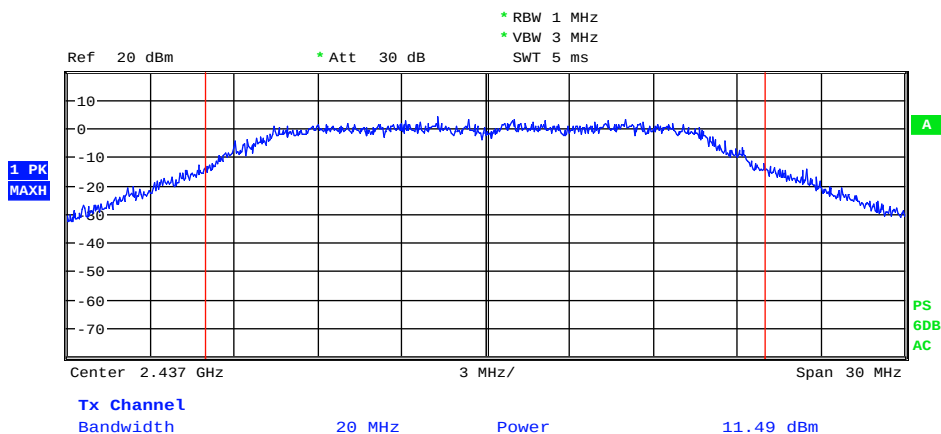


Highest channel

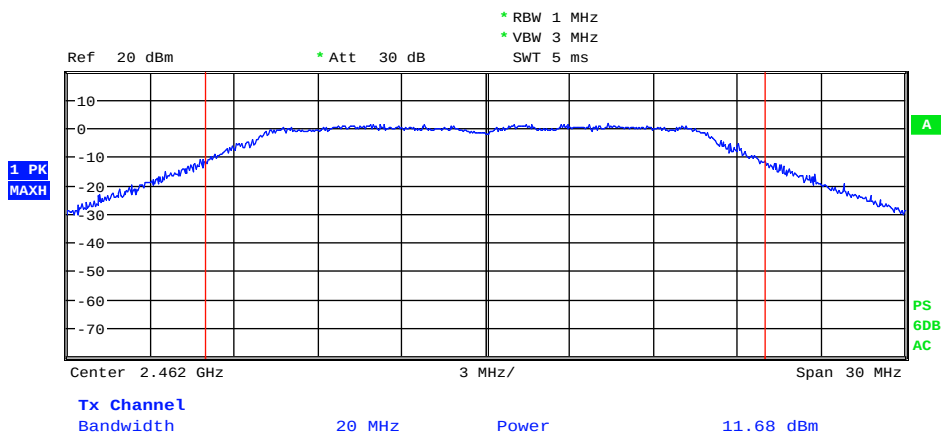
Test mode:	802.11g
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Lowest channel

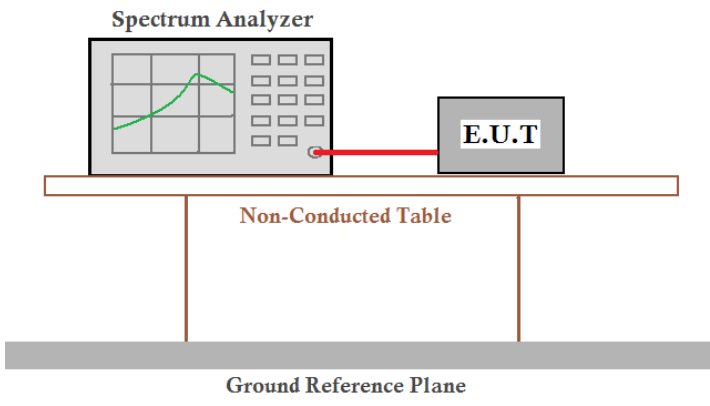


Middle channel



Highest channel

7.4 Channel Bandwidth

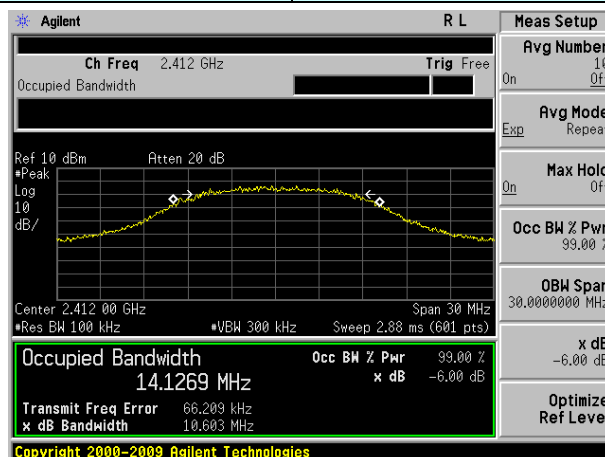
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

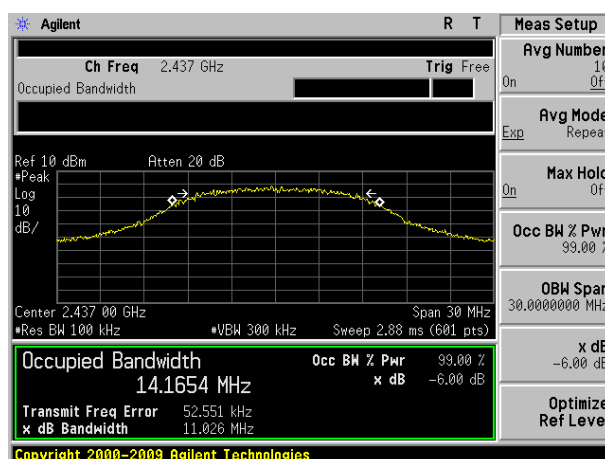
Test CH	Channel Bandwidth (MHz)		Limit(KHz)	Result
	802.11b	802.11g		
Lowest	10.603	16.400	>500	Pass
Middle	11.026	16.394		
Highest	10.147	16.449		

Test plot as follows:

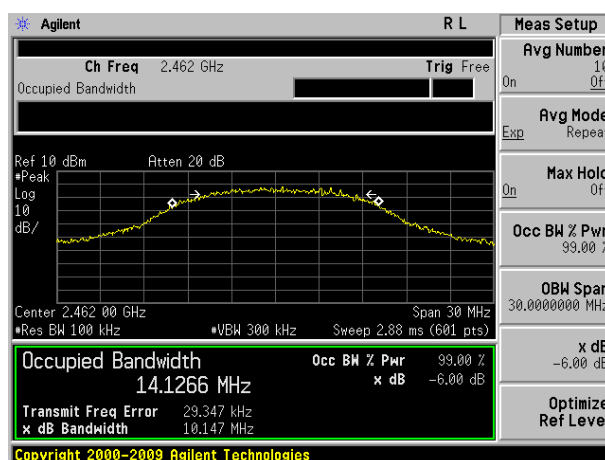
Test mode:	802.11b
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Lowest channel

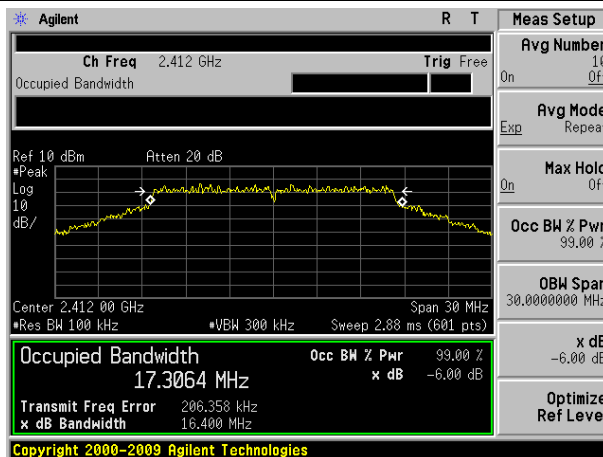


Middle channel

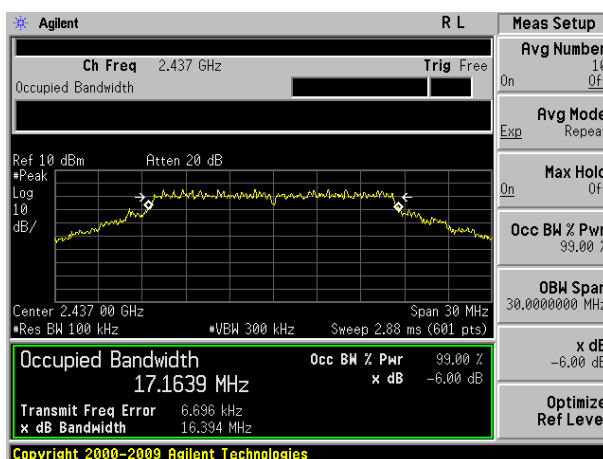


Highest channel

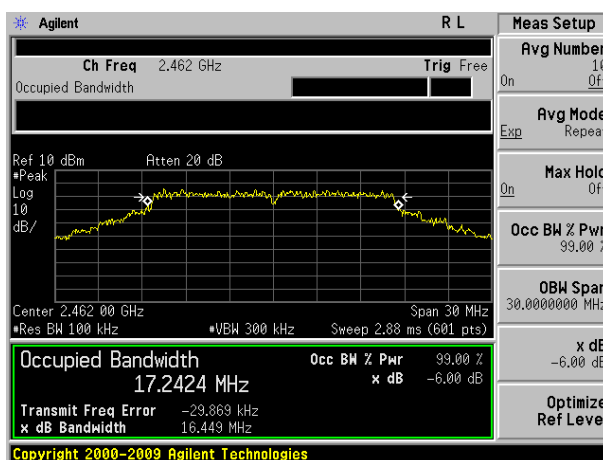
Test mode:	802.11g
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Lowest channel

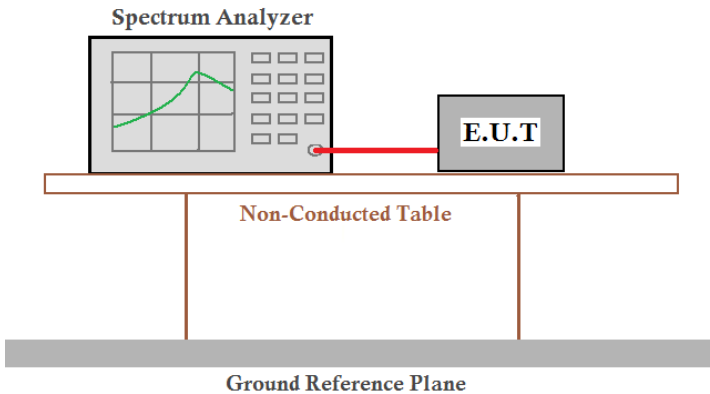


Middle channel



Highest channel

7.5 Power Spectral Density

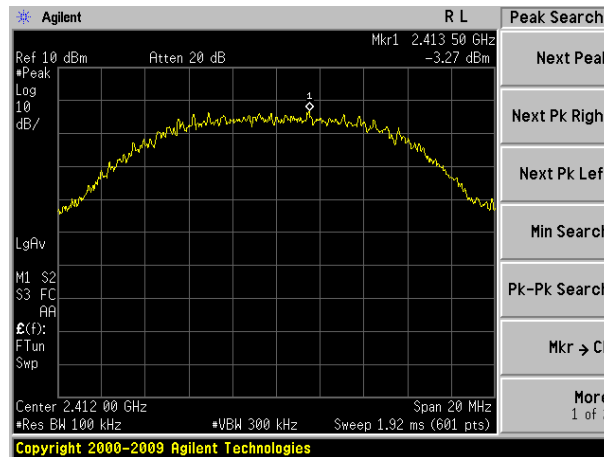
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

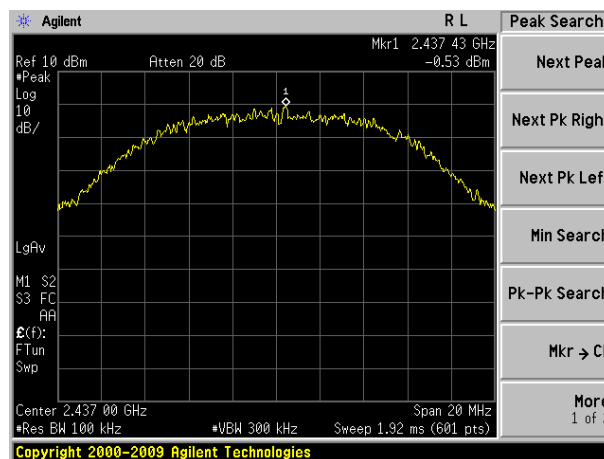
Test CH	Power Spectral Density (dBm)		Limit(dBm/3kHz)	Result
	802.11b	802.11g		
Lowest	-3.27	-3.21	8.00	Pass
Middle	-0.53	-3.20		
Highest	-1.23	-2.74		

Test plot as follows:

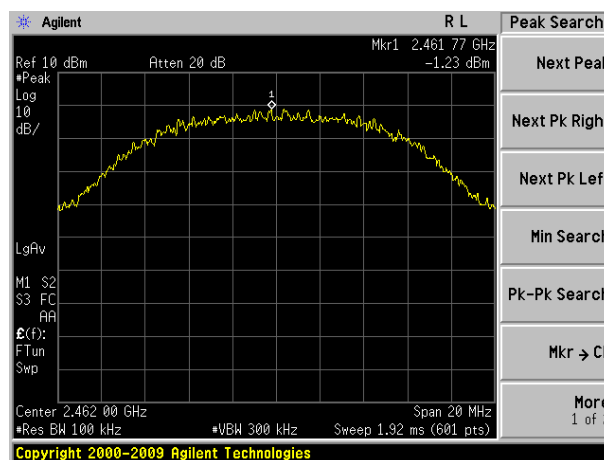
Test mode:	802.11b
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Lowest channel

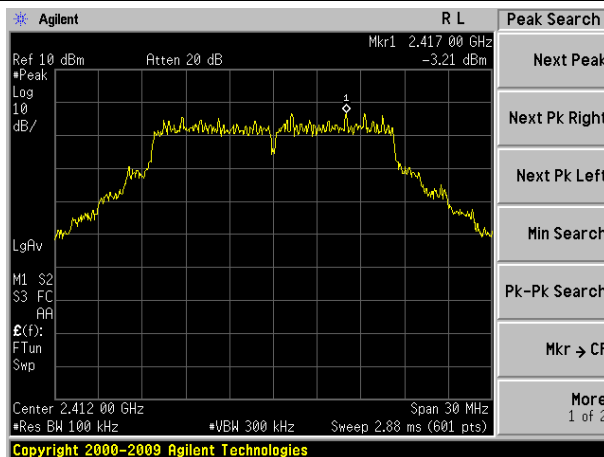


Middle channel

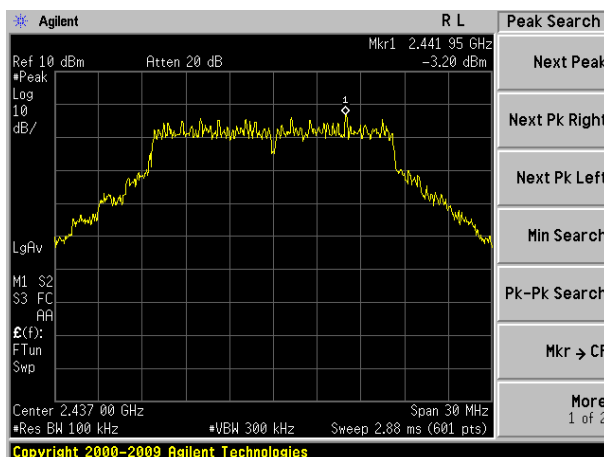


Highest channel

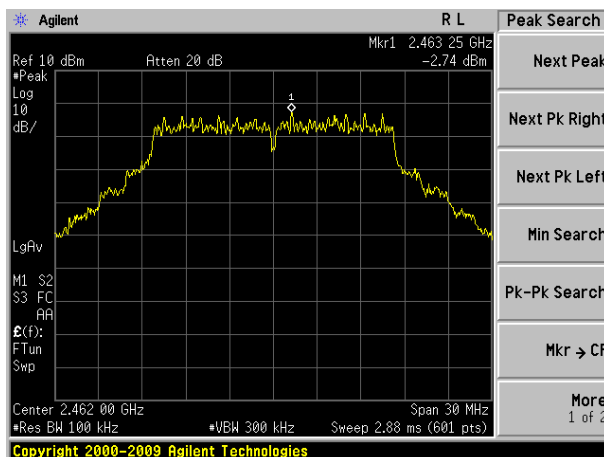
Test mode:	802.11g
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Lowest channel



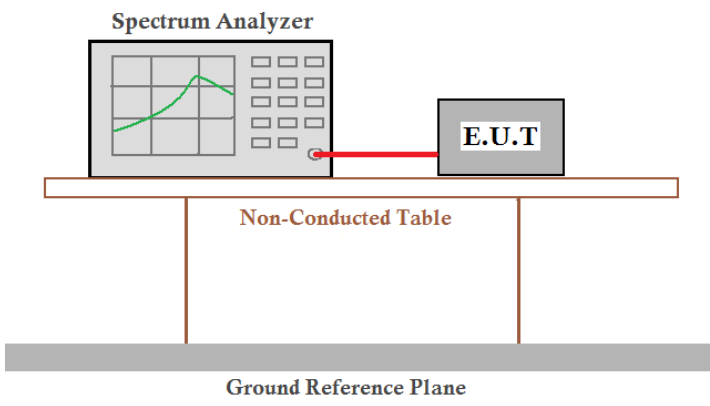
Middle channel



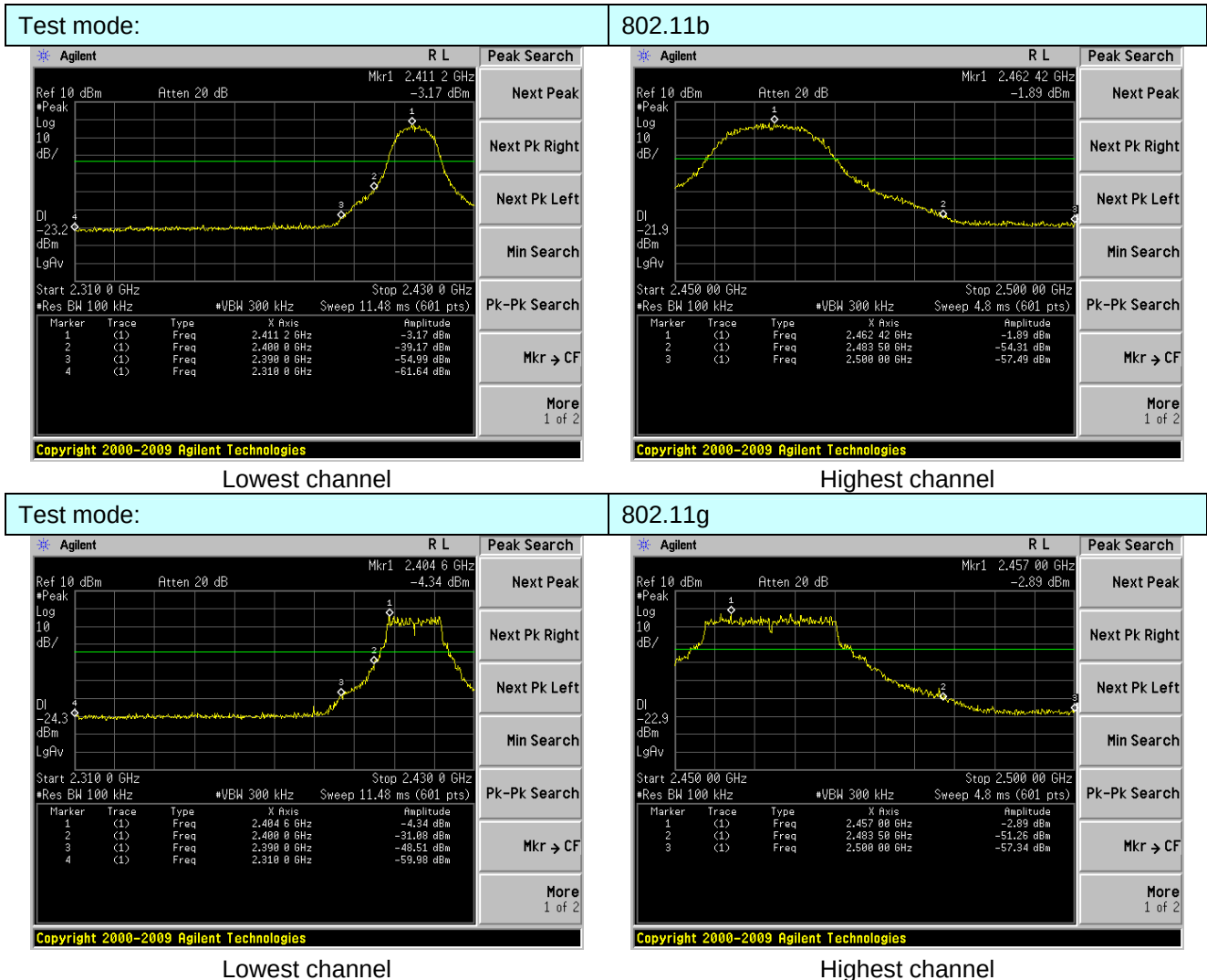
Highest channel

7.6 Band edges

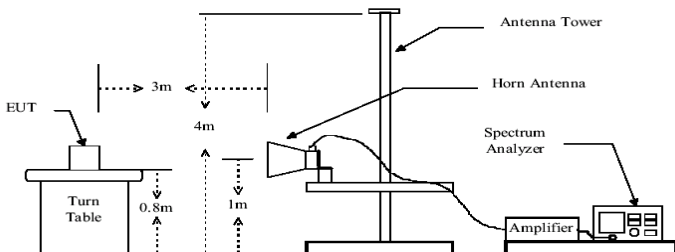
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 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:	 The diagram illustrates the test setup for conducted emission measurement. 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, represented by a thick grey bar.
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:



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4: 2003				
Test Frequency Range:	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
		Peak	1MHz	10Hz	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 X 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	48.29	27.59	5.38	30.18	51.08	74.00	-22.92	Horizontal
2400.00	56.18	27.58	5.39	30.18	58.97	74.00	-15.03	Horizontal
2390.00	49.74	27.59	5.38	30.18	52.53	74.00	-21.47	Vertical
2400.00	57.07	27.58	5.39	30.18	59.86	74.00	-14.14	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	36.02	27.59	5.38	30.18	38.81	54.00	-15.19	Horizontal
2400.00	43.95	27.58	5.39	30.18	46.74	54.00	-7.26	Horizontal
2390.00	37.57	27.59	5.38	30.18	40.36	54.00	-13.64	Vertical
2400.00	44.82	27.58	5.39	30.18	47.61	54.00	-6.39	Vertical

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	47.51	27.53	5.47	29.93	50.58	74.00	-23.42	Horizontal
2500.00	44.41	27.55	5.49	29.93	47.52	74.00	-26.48	Horizontal
2483.50	49.08	27.53	5.47	29.93	52.15	74.00	-21.85	Vertical
2500.00	46.29	27.55	5.49	29.93	49.40	74.00	-24.60	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	35.88	27.53	5.47	29.93	38.95	54.00	-15.05	Horizontal
2500.00	32.62	27.55	5.49	29.93	35.73	54.00	-18.27	Horizontal
2483.50	37.52	27.53	5.47	29.93	40.59	54.00	-13.41	Vertical
2500.00	34.37	27.55	5.49	29.93	37.48	54.00	-16.52	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
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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	49.45	27.59	5.38	30.18	52.24	74.00	-21.76	Horizontal
2400.00	57.72	27.58	5.39	30.18	60.51	74.00	-13.49	Horizontal
2390.00	50.98	27.59	5.38	30.18	53.77	74.00	-20.23	Vertical
2400.00	58.93	27.58	5.39	30.18	61.72	74.00	-12.28	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	36.84	27.59	5.38	30.18	39.63	54.00	-14.37	Horizontal
2400.00	44.90	27.58	5.39	30.18	47.69	54.00	-6.31	Horizontal
2390.00	38.49	27.59	5.38	30.18	41.28	54.00	-12.72	Vertical
2400.00	45.86	27.58	5.39	30.18	48.65	54.00	-5.35	Vertical

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	49.16	27.53	5.47	29.93	52.23	74.00	-21.77	Horizontal
2500.00	45.69	27.55	5.49	29.93	48.80	74.00	-25.20	Horizontal
2483.50	50.97	27.53	5.47	29.93	54.04	74.00	-19.96	Vertical
2500.00	47.79	27.55	5.49	29.93	50.90	74.00	-23.10	Vertical

Average value:

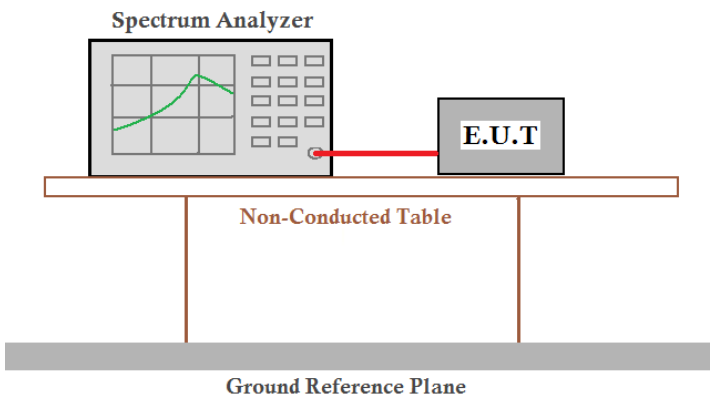
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.88	27.53	5.47	29.93	39.95	54.00	-14.05	Horizontal
2500.00	33.40	27.55	5.49	29.93	36.51	54.00	-17.49	Horizontal
2483.50	38.62	27.53	5.47	29.93	41.69	54.00	-12.31	Vertical
2500.00	35.19	27.55	5.49	29.93	38.30	54.00	-15.70	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

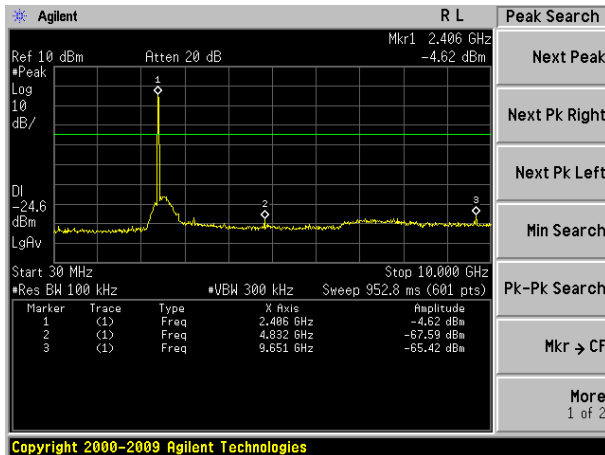
7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 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:	 The diagram illustrates the test setup for conducted emission measurement. 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, represented by a thick grey bar.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

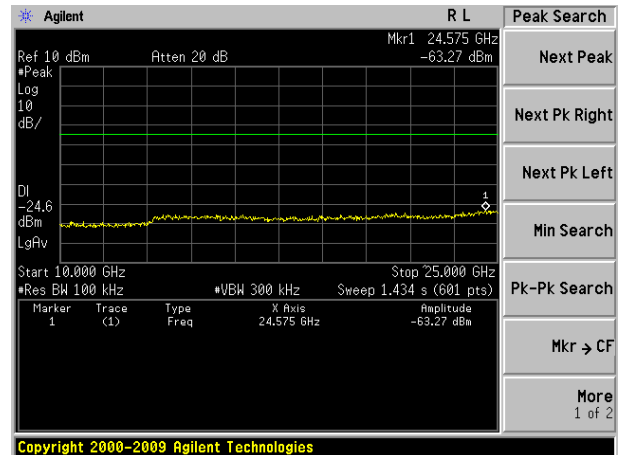
Test plot as follows:

Test mode:	802.11b
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Lowest channel

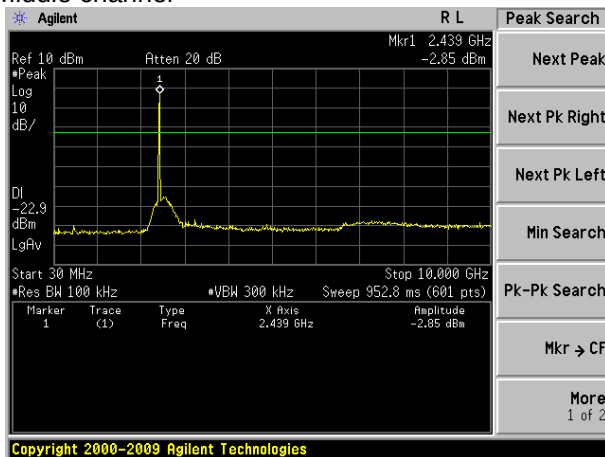


30MHz~10GHz

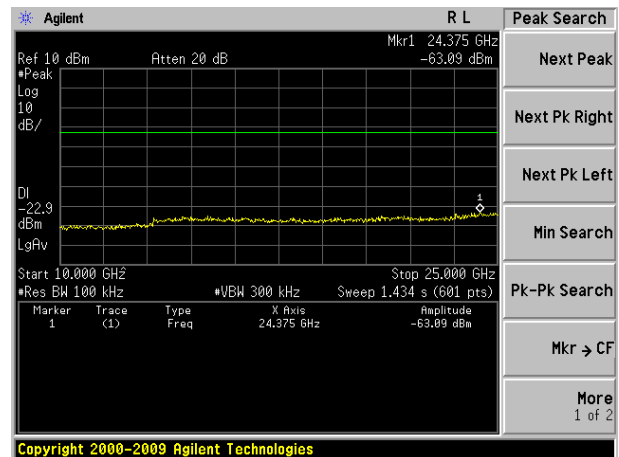


10GHz~25GHz

Middle channel

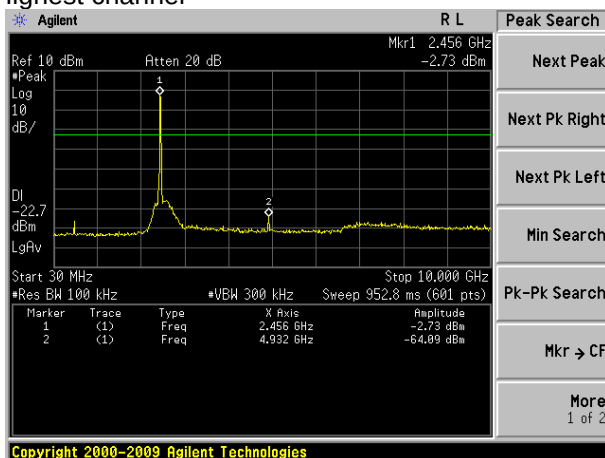


30MHz~10GHz

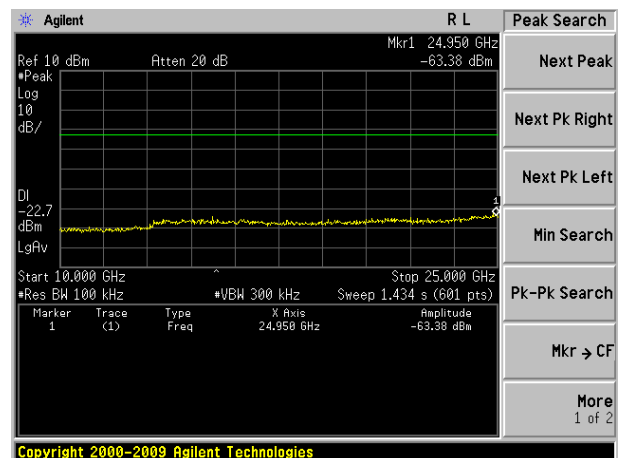


10GHz~25GHz

Highest channel



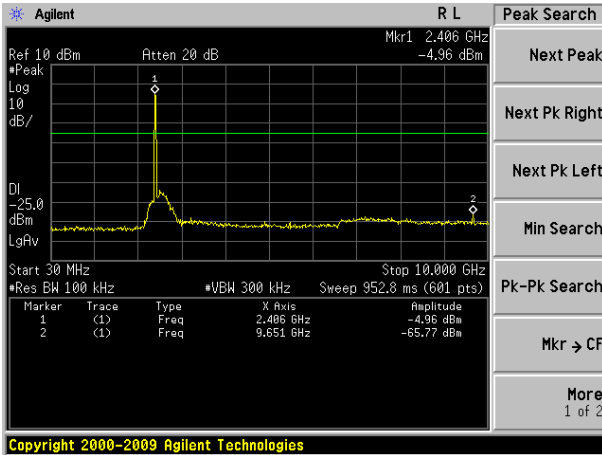
30MHz~10GHz



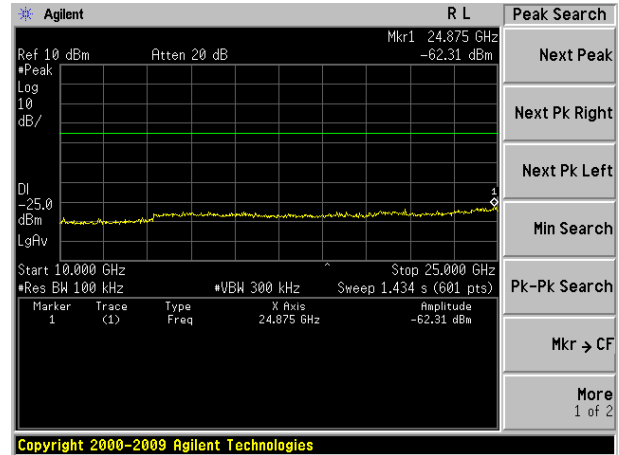
10GHz~25GHz

Test mode:	802.11g
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Lowest channel

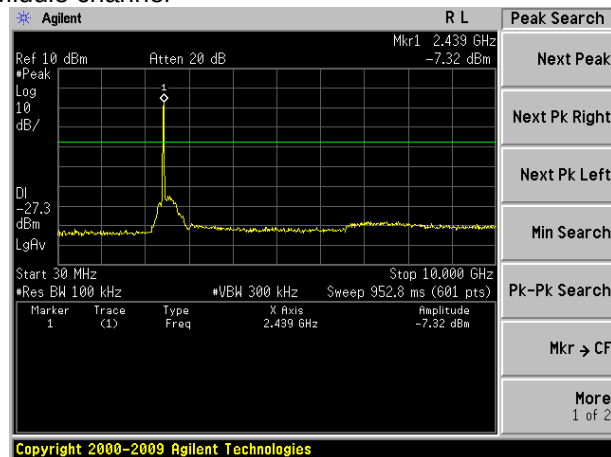


30MHz~10GHz

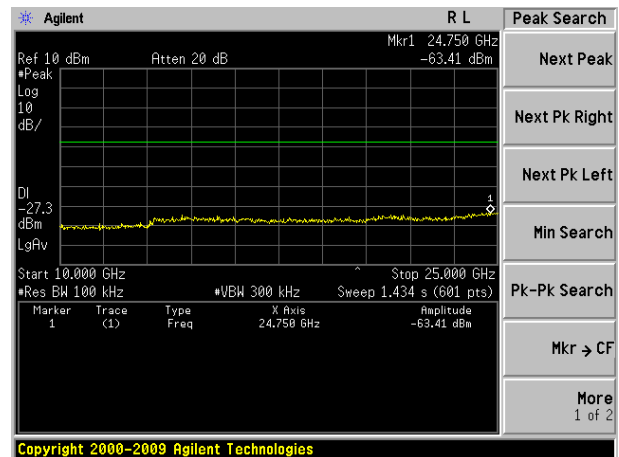


10GHz~25GHz

Middle channel

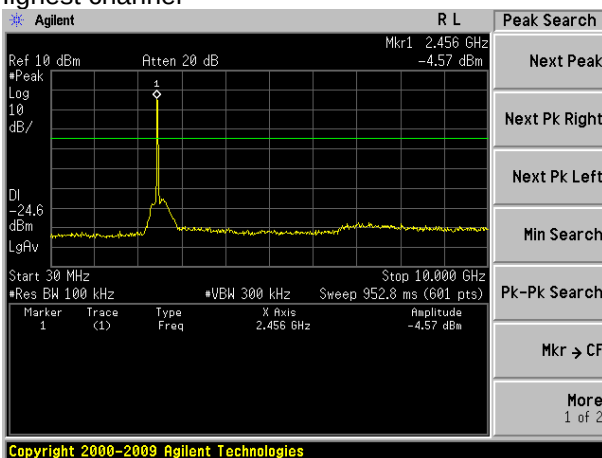


30MHz~10GHz

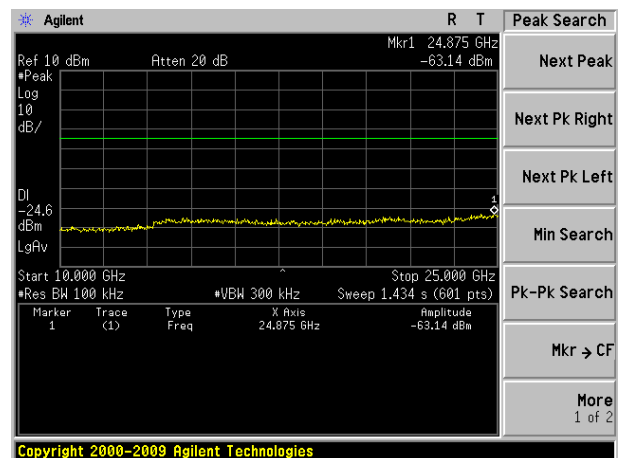


10GHz~25GHz

Highest channel

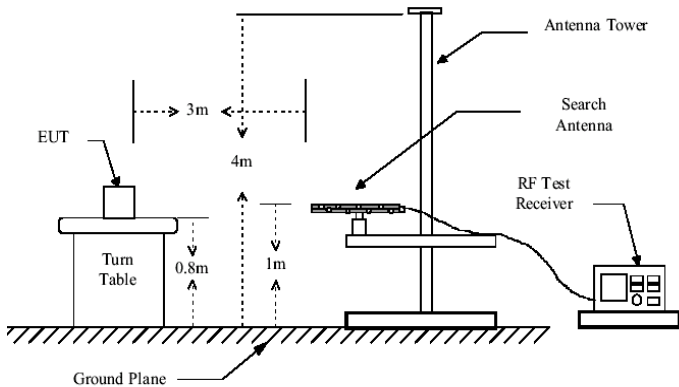
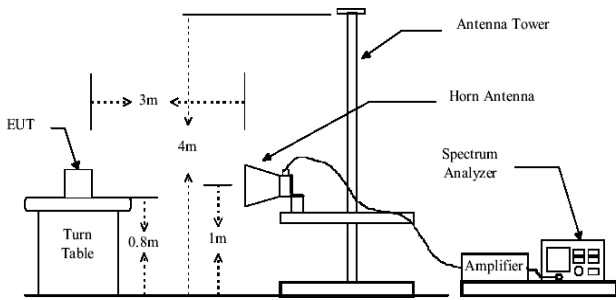


30MHz~10GHz



10GHz~25GHz

7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.4: 2003				
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
		Peak	1MHz	10Hz	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				
					
	Above 1GHz				
					

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 X 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
46.34	39.73	15.46	0.73	31.99	23.93	40.00	-16.07	Vertical
96.10	41.88	14.90	1.16	31.75	26.19	43.50	-17.31	Vertical
111.35	44.71	14.04	1.29	31.82	28.22	43.50	-15.28	Vertical
181.28	42.84	11.76	1.75	32.09	24.26	43.50	-19.24	Vertical
528.25	41.78	19.15	3.43	31.41	32.95	46.00	-13.05	Vertical
975.75	37.84	23.59	5.14	31.23	35.34	54.00	-18.66	Vertical
46.34	45.23	15.46	0.73	31.99	29.43	40.00	-10.57	Horizontal
50.94	42.32	15.21	0.78	31.96	26.35	40.00	-13.65	Horizontal
96.10	42.86	14.90	1.16	31.75	27.17	43.50	-16.33	Horizontal
155.91	42.84	10.51	1.60	32.00	22.95	43.50	-20.55	Horizontal
432.55	43.21	17.53	3.01	31.78	31.97	46.00	-14.03	Horizontal
609.92	41.68	20.48	3.76	31.06	34.86	46.00	-11.14	Horizontal

■ 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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	34.45	31.79	8.62	32.10	42.76	74.00	-31.24	Vertical
7236.00	28.45	36.19	11.68	31.97	44.35	74.00	-29.65	Vertical
9648.00	28.84	38.07	14.16	31.56	49.51	74.00	-24.49	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	33.60	31.79	8.62	32.10	41.91	74.00	-32.09	Horizontal
7236.00	28.17	36.19	11.68	31.97	44.07	74.00	-29.93	Horizontal
9648.00	28.35	38.07	14.16	31.56	49.02	74.00	-24.98	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
4824.00	24.19	31.79	8.62	32.10	32.50	54.00	-21.50	Vertical
7236.00	17.96	36.19	11.68	31.97	33.86	54.00	-20.14	Vertical
9648.00	17.97	38.07	14.16	31.56	38.64	54.00	-15.36	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	23.34	31.79	8.62	32.10	31.65	54.00	-22.35	Horizontal
7236.00	17.44	36.19	11.68	31.97	33.34	54.00	-20.66	Horizontal
9648.00	16.96	38.07	14.16	31.56	37.63	54.00	-16.37	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
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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	34.18	31.85	8.66	32.12	42.57	74.00	-31.43	Vertical
7311.00	29.18	36.37	11.71	31.91	45.35	74.00	-28.65	Vertical
9748.00	28.66	38.27	14.25	31.56	49.62	74.00	-24.38	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	34.69	31.85	8.66	32.12	43.08	74.00	-30.92	Horizontal
7311.00	27.84	36.37	11.71	31.91	44.01	74.00	-29.99	Horizontal
9748.00	28.55	38.27	14.25	31.56	49.51	74.00	-24.49	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	25.05	31.85	8.66	32.12	33.44	54.00	-20.56	Vertical
7311.00	17.50	36.37	11.71	31.91	33.67	54.00	-20.33	Vertical
9748.00	17.91	38.27	14.25	31.56	38.87	54.00	-15.13	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	24.81	31.85	8.66	32.12	33.20	54.00	-20.80	Horizontal
7311.00	16.93	36.37	11.71	31.91	33.10	54.00	-20.90	Horizontal
9748.00	18.27	38.27	14.25	31.56	39.23	54.00	-14.77	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.

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
4924.00	39.59	31.90	8.70	32.15	48.04	74.00	-25.96	Vertical
7386.00	29.78	36.49	11.76	31.83	46.20	74.00	-27.80	Vertical
9848.00	31.90	38.62	14.31	31.77	53.06	74.00	-20.94	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	38.94	31.90	8.70	32.15	47.39	74.00	-26.61	Horizontal
7386.00	28.70	36.49	11.76	31.83	45.12	74.00	-28.88	Horizontal
9848.00	28.08	38.62	14.31	31.77	49.24	74.00	-24.76	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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	30.53	31.90	8.70	32.15	38.98	54.00	-15.02	Vertical
7386.00	19.70	36.49	11.76	31.83	36.12	54.00	-17.88	Vertical
9848.00	20.40	38.62	14.31	31.77	41.56	54.00	-12.44	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	29.32	31.90	8.70	32.15	37.77	54.00	-16.23	Horizontal
7386.00	18.10	36.49	11.76	31.83	34.52	54.00	-19.48	Horizontal
9848.00	17.34	38.62	14.31	31.77	38.50	54.00	-15.50	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
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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	33.17	31.79	8.62	32.10	41.48	74.00	-32.52	Vertical
7236.00	27.65	36.19	11.68	31.97	43.55	74.00	-30.45	Vertical
9648.00	28.26	38.07	14.16	31.56	48.93	74.00	-25.07	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	32.52	31.79	8.62	32.10	40.83	74.00	-33.17	Horizontal
7236.00	27.46	36.19	11.68	31.97	43.36	74.00	-30.64	Horizontal
9648.00	27.82	38.07	14.16	31.56	48.49	74.00	-25.51	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	23.01	31.79	8.62	32.10	31.32	54.00	-22.68	Vertical
7236.00	17.18	36.19	11.68	31.97	33.08	54.00	-20.92	Vertical
9648.00	17.42	38.07	14.16	31.56	38.09	54.00	-15.91	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	22.33	31.79	8.62	32.10	30.64	54.00	-23.36	Horizontal
7236.00	16.75	36.19	11.68	31.97	32.65	54.00	-21.35	Horizontal
9648.00	16.44	38.07	14.16	31.56	37.11	54.00	-16.89	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
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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	33.12	31.85	8.66	32.12	41.51	74.00	-32.49	Vertical
7311.00	28.51	36.37	11.71	31.91	44.68	74.00	-29.32	Vertical
9748.00	28.18	38.27	14.25	31.56	49.14	74.00	-24.86	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	33.79	31.85	8.66	32.12	42.18	74.00	-31.82	Horizontal
7311.00	27.25	36.37	11.71	31.91	43.42	74.00	-30.58	Horizontal
9748.00	28.11	38.27	14.25	31.56	49.07	74.00	-24.93	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	24.07	31.85	8.66	32.12	32.46	54.00	-21.54	Vertical
7311.00	16.86	36.37	11.71	31.91	33.03	54.00	-20.97	Vertical
9748.00	17.45	38.27	14.25	31.56	38.41	54.00	-15.59	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	23.97	31.85	8.66	32.12	32.36	54.00	-21.64	Horizontal
7311.00	16.36	36.37	11.71	31.91	32.53	54.00	-21.47	Horizontal
9748.00	17.84	38.27	14.25	31.56	38.80	54.00	-15.20	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
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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	37.77	31.90	8.70	32.15	46.22	74.00	-27.78	Vertical
7386.00	28.63	36.49	11.76	31.83	45.05	74.00	-28.95	Vertical
9848.00	31.07	38.62	14.31	31.77	52.23	74.00	-21.77	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	37.40	31.90	8.70	32.15	45.85	74.00	-28.15	Horizontal
7386.00	27.70	36.49	11.76	31.83	44.12	74.00	-29.88	Horizontal
9848.00	27.32	38.62	14.31	31.77	48.48	74.00	-25.52	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

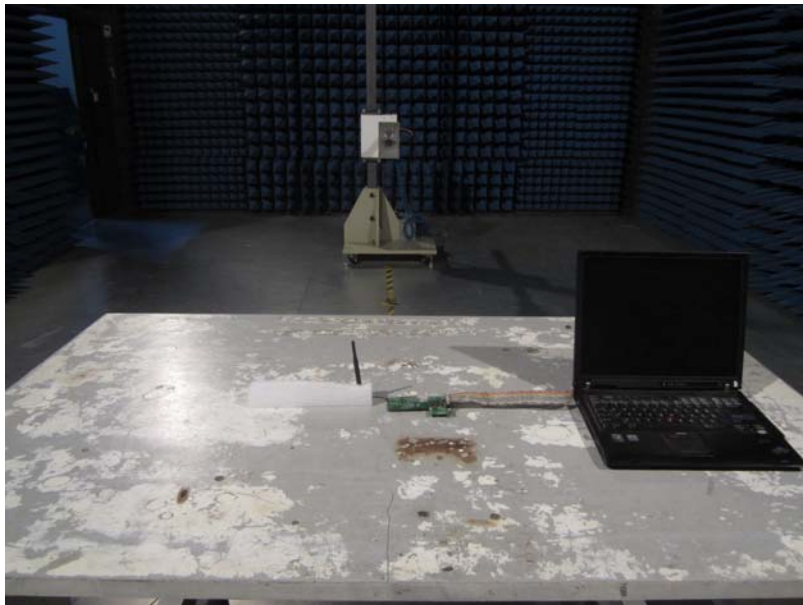
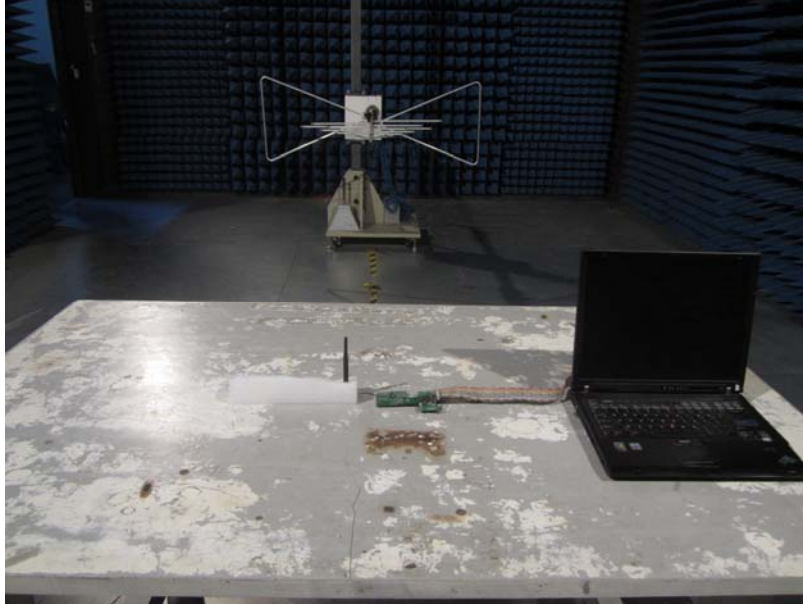
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	28.85	31.90	8.70	32.15	37.30	54.00	-16.70	Vertical
7386.00	18.59	36.49	11.76	31.83	35.01	54.00	-18.99	Vertical
9848.00	19.61	38.62	14.31	31.77	40.77	54.00	-13.23	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	27.87	31.90	8.70	32.15	36.32	54.00	-17.68	Horizontal
7386.00	17.12	36.49	11.76	31.83	33.54	54.00	-20.46	Horizontal
9848.00	16.61	38.62	14.31	31.77	37.77	54.00	-16.23	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.

8 Test Setup Photo

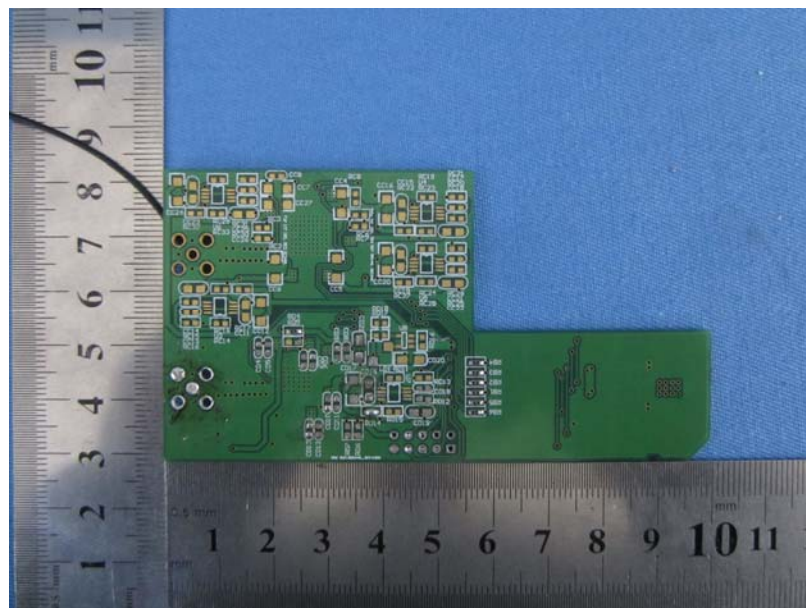
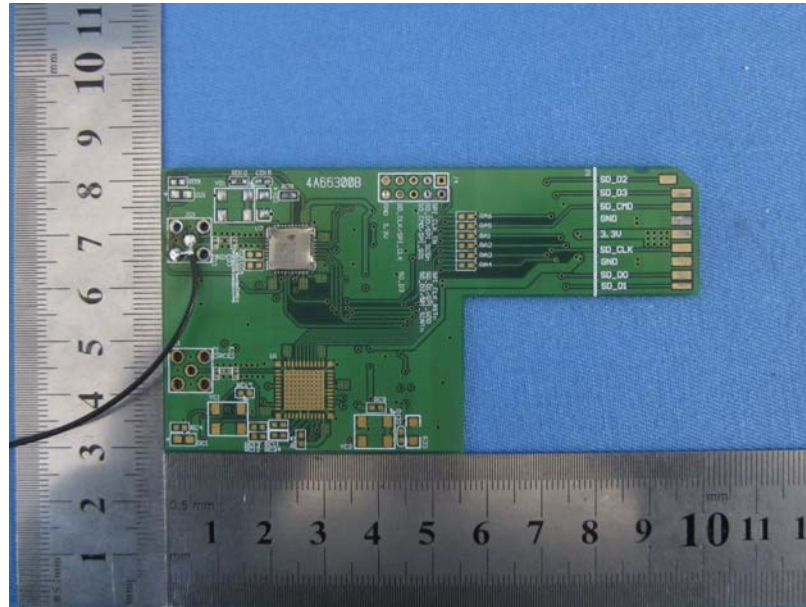
Radiated Emission

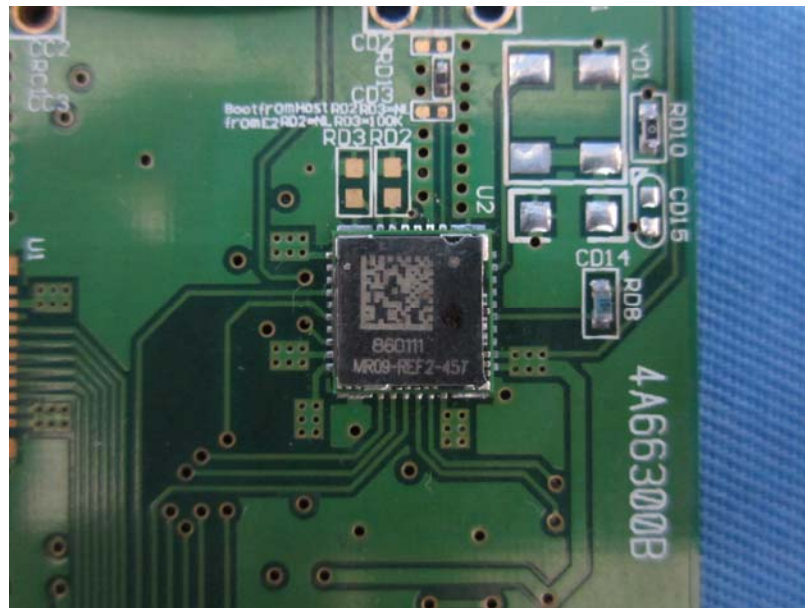


Conducted Emission



9 EUT Constructional Details





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