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FCC PART 15 SUBPART C TEST REPORT FCC Part 15.247

Report Reference No......: **CTL1406041263-WF**

Compiled by

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Date of issue.....: June 30, 2014

Test Laboratory Name: **Shenzhen CTL Testing Technology Co., Ltd.**

Address: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,
Nanshan District, Shenzhen, China 518055

Applicant's name: All Land Networking Co., Ltd

Address: 4 Floor, #B Building, Weiyulong Industrial Park, Xuegang North Road,
Bantian Street, Longgang District, Shenzhen, China

Test specification:

Standard: FCC Part 15.247: Operation within the bands 902–928 MHz, 2400–
2483.5 MHz, and 5725–5850 MHz.

TRF Originator: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF: Dated 2011-01

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placement and context.

Test item description: 7" Android Tablet PC

FCC ID: 2AC04-X7

Trade Mark: iRulu

Model/Type reference: X7

Work frequency: 802.11b/g/n(20MHz): 2412~2462MHz
802.11n(40MHz): 2422~2452

Type of modulation: 802.11b DSSS, 802.11g/n: OFDM

Data Rate: 802.11b: 1/2/5.5/11 Mbps
802.11g: 6/9/12/18/24/36/48/54 Mbps
802.11n: up to 150 Mbps

Antenna Gain: -1.0dBi

Antenna type: Internal

Result: **Positive**

TEST REPORT

Test Report No. :	CTL1406041263-WF	June 30, 2014 Date of issue
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Equipment under Test : 7" Android Tablet PC

Model /Type : X7

Applicant : All Land Networking Co., Ltd

Address : 4 Floor, #B Building, Weiyulong Industrial Park, Xuegang North Road, Bantian Street, Longgang District, Shenzhen, China

Manufacturer : All Land Networking Co., Ltd

Address : 4 Floor, #B Building, Weiyulong Industrial Park, Xuegang North Road, Bantian Street, Longgang District, Shenzhen, China

Test Result according to the standards on page 4:

Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

FCC Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2009: American National Standard for Testing Unlicensed Wireless Devices.

ANSI C63.4-2009

[**KDB Publication No. 558074 D01 v03r01 Guidance on Measurements for Digital Transmission Systems**](#)



2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	June 13, 2014
Testing commenced on	:	June 13, 2014
Testing concluded on	:	June 30, 2014

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input checked="" type="radio"/> 120V / 60 Hz <input type="radio"/> 115V / 60Hz
		<input type="radio"/> 12 V DC <input type="radio"/> 24 V DC
		<input type="radio"/> Other (specified in blank below)

DC3.7V from battery

Description of the test mode

IEEE 802.11b/g/n: Thirteen channels are provided to the EUT, but only eleventh channels used for USA.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

2.3. Short description of the Equipment under Test (EUT)

A 7" Android Tablet PC support Wi-Fi 802.11b/g/n.

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

2.4. EUT operation mode

Test Mode:

1. The EUT has been tested under normal operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed. Channel low (2412MHz), mid (2442MHz) and high (2462MHz) with highest data rate are chosen for full testing.
3. Test Mode:

Test Mode(TM)	Description	Remark
1	Transmitting	802.11 b
2	Transmitting	802.11 g
3	Transmitting	802.11 n HT20
4	Transmitting	802.11 n HT40

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- supplied by the lab

● Notebook PC Manufacturer : DELL
 Model No. : PP18L

2.6. NOTE

1. The EUT is an 802.11b/g/n Tablet PC, The functions of the EUT listed as below:

	Test Standards	Reference Report
WLAN 802.11b/g, 802.11n	FCC Part 15 Subpart C (Section15.247)	CTL1406041263-WF

2. The frequency bands used in this EUT are listed as follows:

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
802.11b	✓	—	—	—
802.11g	✓	—	—	—
802.11n(20MHz)	✓	—	—	—
802.11n(40MHz)	✓	—	—	—

3. The EUT incorporates a SISO function, Physically, the EUT provides two completed transmitter and two completed receivers.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX

2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AC04-X7 filing to comply with of the FCC Part 15.247 Rules.

2.8. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.
Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

The sites are constructed in conformance with the requirements of ANSI C6230, ANSI C63.4 (2003) and CISPR Publication 22.

3.2. Test Facility

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

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December 19, 2013.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

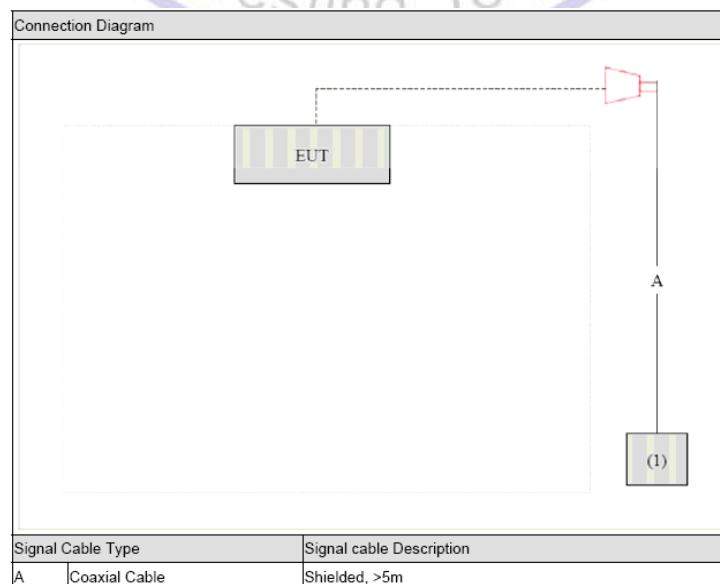
Temperature: 15-35 °C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

3.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2013/07/12	2014/07/11
EMI Test Receiver	R&S	ESCI	103710	2013/07/10	2014/07/09
Spectrum Analyzer	Agilent	E4407B	MY45108355	2013/07/06	2014/07/05
Controller	EM Electronics	Controller EM 1000	N/A	2013/07/06	2014/07/05
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2013/07/12	2014/07/11
Horn Antenna	SCHWARZBECK	BBHA9170	1562	2013/07/12	2014/07/11
Active Loop Antenna	SCHWARZBECK	FMZB1519	1519-037	2013/07/12	2014/07/11
LISN	R&S	ENV216	101316	2013/07/10	2014/07/09
LISN	SCHWARZBECK	NSLK8127	8127687	2013/07/10	2014/07/09
Microwave Preamplifier	HP	8349B	3155A00882	2013/07/10	2014/07/09
Amplifier	HP	8447D	3113A07663	2013/07/10	2014/07/09
Transient Limiter	Com-Power	LIT-153	532226	2013/07/10	2014/07/09
Radio Communication Tester	R&S	CMU200	3655A03522	2013/07/06	2014/07/05
Temperature/Humidity Meter	zhicheng	ZC1-2	22522	2013/07/10	2014/07/09
SIGNAL GENERATOR	HP	8647A	3200A00852	2013/07/10	2014/07/09
Wideband Peak Power Meter	Anritsu	ML2495A	220.23.35	2013/07/06	2014/07/05
Climate Chamber	ESPEC	EL-10KA	A20120523	2013/07/06	2014/07/05
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	/	2013/07/06	2014/07/05
High-Pass Filter	K&L	41H10-1375/U12750-O/O	/	2013/07/06	2014/07/05

3.7. Summary of Test Result

FCC PART 15		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Remark: The measurement uncertainty is not included in the test result.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

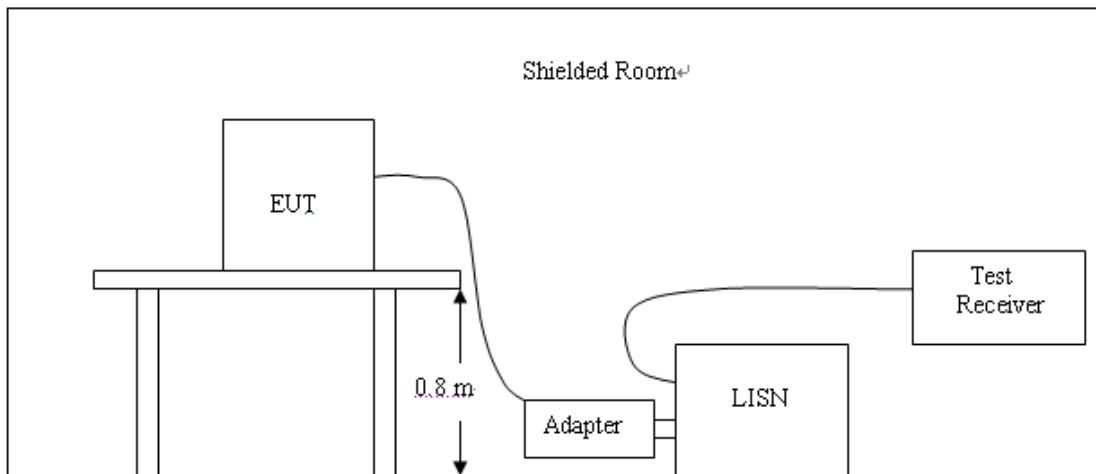
Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	Normal Link	11 Mbps	1
Maximum Peak Conducted Output Power	11b/DSSS	11 Mbps	1/6/11
Power Spectral Density	11g/OFDM	54 Mbps	1/6/11
6dB Bandwidth	11n(20MHz)/OFDM	65Mbps	1/6/11
Spurious RF conducted emission	11n(40MHz)/OFDM	150Mbps	3/6/9
Radiated Emission 30MHz~1GHz	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
Radiated Emission 1GHz~10th Harmonic	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
Band Edge Compliance of RF Emission	11b/DSSS	11 Mbps	1/11
	11g/OFDM	54 Mbps	1/11
	11n(20MHz)/OFDM	65Mbps	1/11
	11n(40MHz)/OFDM	150Mbps	3/9

Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

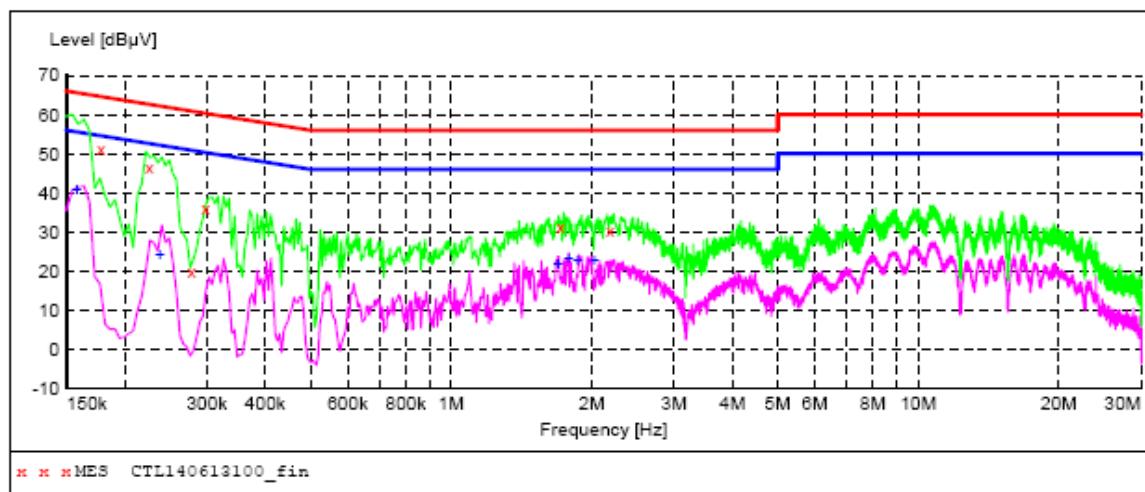
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

1. Please follow the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

The RBW/VBW for 150KHz to 30MHz: 9KHz

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "CTL140613100_fin"**

6/13/2014 3:29PM

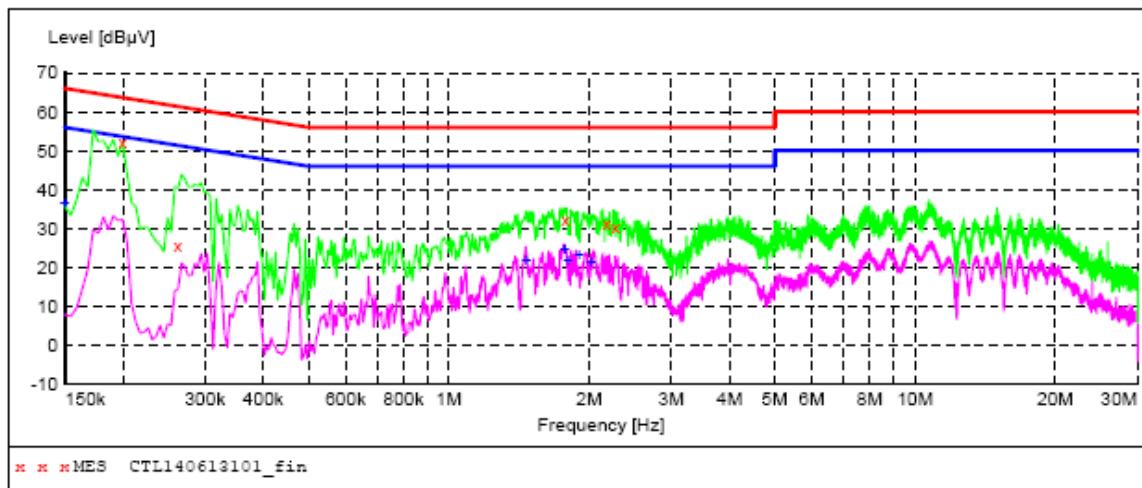
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.178000	51.30	10.2	65	13.3	QP	N	GND
0.226000	46.50	10.2	63	16.1	QP	N	GND
0.278000	19.90	10.2	61	41.0	QP	N	GND
0.298000	36.10	10.2	60	24.2	QP	N	GND
1.712000	31.50	10.3	56	24.5	QP	N	GND
2.192000	30.50	10.4	56	25.5	QP	N	GND

MEASUREMENT RESULT: "CTL140613100_fin2"

6/13/2014 3:29PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.158000	40.90	10.2	56	14.7	AV	N	GND
0.238000	24.00	10.2	52	28.2	AV	N	GND
1.694000	21.80	10.3	46	24.2	AV	N	GND
1.784000	23.20	10.3	46	22.8	AV	N	GND
1.862000	22.90	10.3	46	23.1	AV	N	GND
2.024000	22.80	10.4	46	23.2	AV	N	GND

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL140613101_fin"

6/13/2014 3:40PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.199500	52.24	10.3	66	13.8	QP	L1	GND
0.262000	25.70	10.2	61	35.7	QP	L1	GND
1.778000	32.10	10.3	56	23.9	QP	L1	GND
1.778000	32.10	10.3	56	23.9	QP	L1	GND
2.180000	31.20	10.4	56	24.8	QP	L1	GND
2.276000	30.20	10.4	56	25.8	QP	L1	GND

MEASUREMENT RESULT: "CTL140613101_fin2"

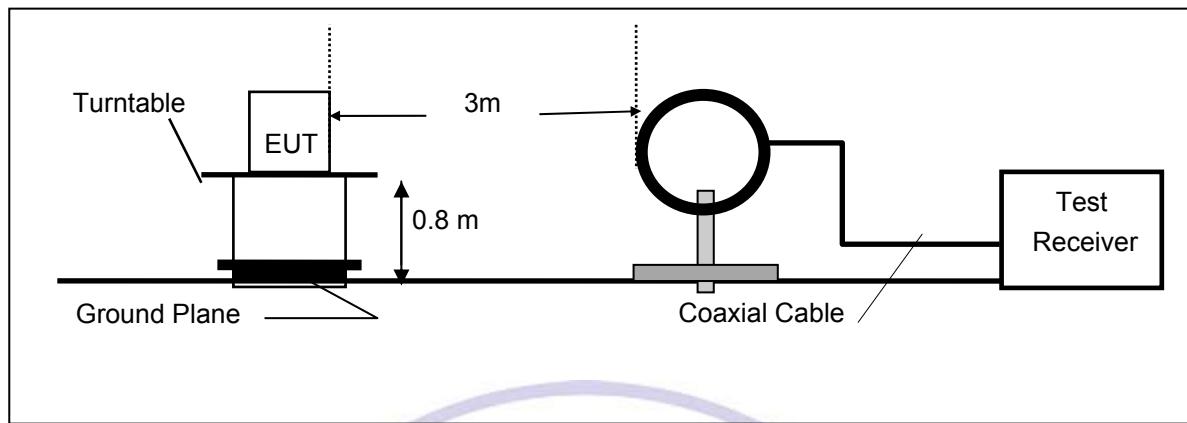
6/13/2014 3:33PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	36.40	10.2	56	19.6	AV	L1	GND
1.466000	21.70	10.3	46	24.3	AV	L1	GND
1.772000	24.40	10.3	46	21.6	AV	L1	GND
1.802000	22.00	10.3	46	24.0	AV	L1	GND
1.904000	23.30	10.3	46	22.7	AV	L1	GND
2.018000	21.20	10.4	46	24.8	AV	L1	GND

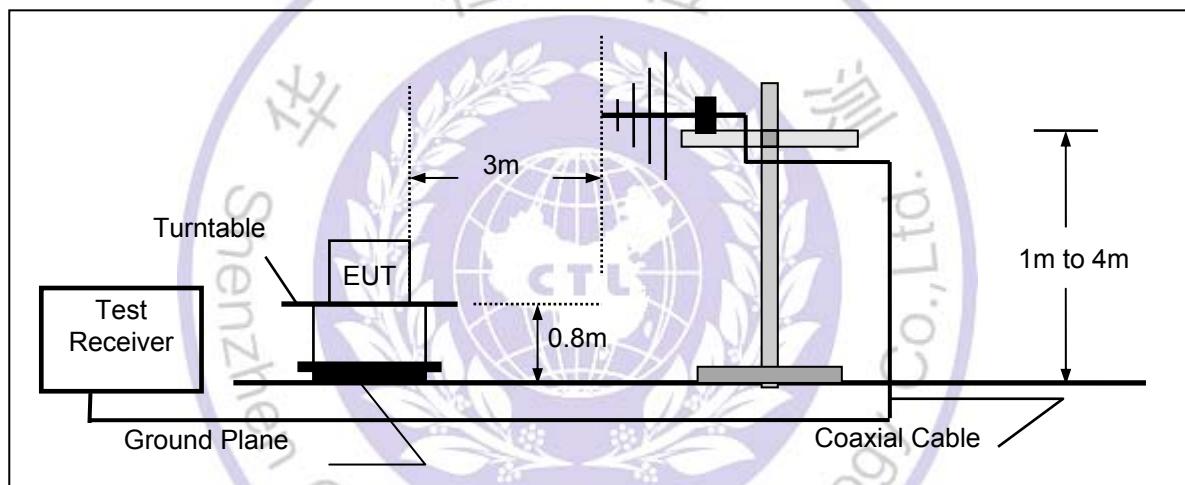
4.2. Radiated Emission Test

TEST CONFIGURATION

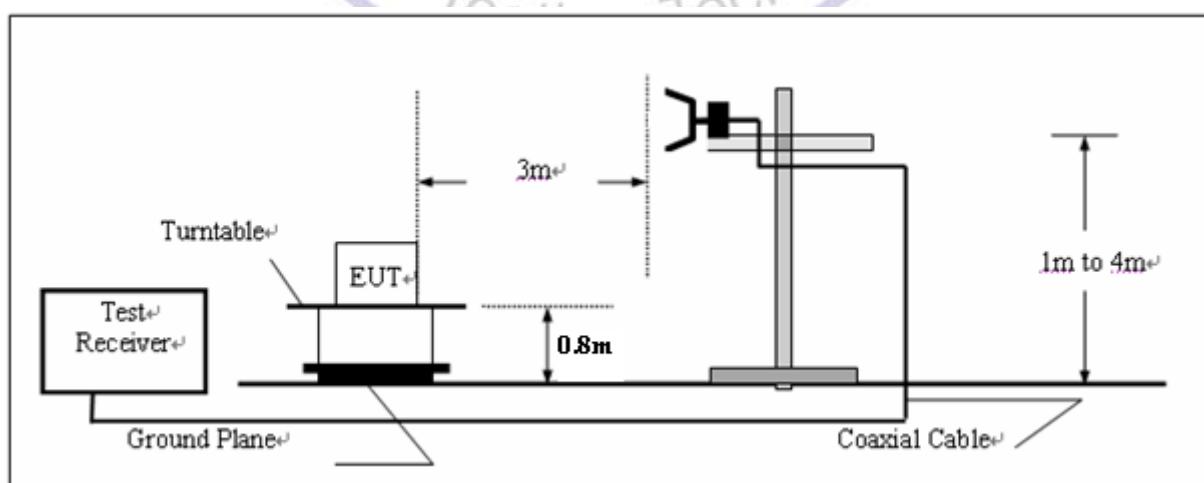
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\text{FS} = \text{RA} + \text{AF} + \text{CL} - \text{AG}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

TEST PROCEDURE

1. The testing follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS), the EUT was setup according to ANSI C63.4: and tested according to ANSI C63.10 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT was placed on a turn table which is 0.8m above ground plane.
3. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for f > 1 GHz, 120 kHz for f < 1 GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Repeat above procedures until all frequency measurements have been completed.

Note:

When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 60 degrees for H-plane and 90 degrees for E-plane.

LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

TEST RESULTS

802.11b

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	V	2412.0	71.9	30.8	102.7	Fundamental	/	PK
	V	307.4	12.4	14.8	27.2	46	-18.8	QP
	V	500.0	15.0	19.7	34.7	46	-11.3	QP
	V	3200.0	42.8	-0.6	42.2	54(note3)	-11.8	PK
	V	4825.0	47.2	2.6	49.8	54(note3)	-4.2	PK
	V	7239.0	51.6	8.1	59.7	74	-13.3	PK
	V	7236.0	44.0	8.9	52.9	54	-1.1	AV
	H	24000.0	59.1	-8.9	50.2	54(note3)	-3.8	PK
6	V	2437.0	71.5	31.2	102.7	Fundamental	/	PK
	V	317.1	12.1	15.2	27.3	46	-18.7	QP
	V	571.6	13.4	21.2	34.6	46	-11.4	QP
	V	3200.0	43.6	-0.6	43.0	54(note3)	-11.0	PK
	V	4876.0	49.0	2.8	51.8	54(note3)	-2.2	PK
	V	7315.5	54.5	8.8	63.3	74	-10.7	PK
	V	7311.0	43.9	8.1	52.0	54	-2.0	AV
	H	24000.0	59.1	-8.9	50.2	54(note3)	-3.8	PK
11	V	2462.0	70.5	30.9	101.4	Fundamental	/	PK
	V	326.3	12.6	14.9	27.5	46	-18.5	QP
	H	582.0	12.9	21.2	34.1	46	-11.9	QP
	V	3200.0	44.1	-0.6	43.5	54(note3)	-10.5	PK
	V	4927.0	45.1	3.0	48.1	54(note3)	-5.9	PK
	V	7383.5	50.1	8.9	59.0	74	-15.0	PK
	V	7386.0	43.9	8.9	52.8	54	-1.2	AV
	H	24000.0	59.4	-8.9	50.3	54(note3)	-3.7	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11g

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	V	2411.9	70.1	31.9	102.0	Fundamental	/	PK
	H	296.8	13.4	15.7	29.1	46	-17.9	QP
	H	567.4	14.6	21.3	35.9	46	-10.1	QP
	V	3200	50.0	-13.4	36.6	54(note3)	-17.4	PK
	V	4824.0	43.6	2.6	46.2	54(note3)	-7.8	PK
	V	7236.0	36.7	8.9	45.6	54	-8.4	AV
	V	7239.0	50.2	8.9	59.1	74	-14.9	PK
	H	24000.0	59.1	-8.9	50.2	54(note3)	-3.8	PK
6	V	2437.0	70.3	31.2	101.5	Fundamental	/	PK
	V	302.6	12.2	14.8	27.0	46	-19.0	QP
	V	599.9	13.8	21.2	35.0	46	-11.0	QP
	V	3200.0	41.4	-0.6	40.8	54(note3)	-13.2	PK
	V	4876.0	45.6	2.8	48.4	54(note3)	-5.6	PK
	V	7298.5	43.1	8.8	51.9	54(note3)	-2.1	PK
	H	24000.0	58.7	-8.9	49.8	54(note3)	-4.2	PK
	V	2462.3	70.9	30.9	101.8	Fundamental	/	PK
11	H	589.7	13.7	21.2	34.9	46	-11.1	QP
	V	286.6	12.5	14.7	27.2	46	-18.8	QP
	V	3200.0	42.7	-0.6	42.1	54(note3)	-11.9	PK
	V	4927.0	45.9	3.0	48.9	54(note3)	-5.1	PK
	V	7386.0	37.4	8.9	46.3	54	-7.7	AV
	V	7392.0	51.8	8.9	60.7	74	-13.3	PK
	H	24000.0	59.1	-8.9	50.2	54(note3)	-3.8	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(20MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	V	2412.1	69.8	30.7	100.3	Fundamental	/	PK
	H	597.9	14.0	21.2	35.2	46	-10.8	QP
	H	311.8	12.5	15.1	27.6	46	-18.4	QP
	V	3200.0	42.8	-0.6	42.2	54(note3)	-11.8	PK
	V	4824.0	42.3	2.6	44.9	54(note3)	-9.1	PK
	V	7236.0	33.9	8.9	43.8	54	-10.2	AV
	V	7239.0	46.2	8.9	55.1	74	-18.9	PK
	H	24000.0	59.1	-8.9	50.2	54(note3)	-3.8	PK
6	V	2437.0	69.8	31.2	101.0	Fundamental	/	PK
	H	561.6	13.6	21.2	34.8	46	-11.2	QP
	H	343.3	13.2	16.0	29.2	46	-16.8	QP
	V	3200.0	42.5	-0.6	41.9	54(note3)	-12.1	PK
	V	4876.0	45.2	2.8	48.0	54(note3)	-6.0	PK
	V	7307.0	54.6	8.8	63.4	74	-10.6	PK
	V	7310.6	41.0	8.8	49.8	54	-4.2	AV
	H	24000.0	59.1	-8.9	50.2	54(note3)	-3.8	PK
11	V	2462.0	70.1	30.9	101.0	Fundamental	/	PK
	H	300.1	13.6	14.7	28.3	46	-17.7	QP
	H	553.8	13.5	21.2	34.7	46	-11.3	QP
	V	3200.0	43.2	-0.6	42.6	54(note3)	-11.4	PK
	V	4924.0	42.7	3.0	45.7	54(note3)	-8.3	PK
	V	7375.0	50.1	9.0	59.0	74	-15.0	PK
	V	7378.3	34.0	9.0	42.9	54	-11.1	AV
	H	24000.0	57.0	-8.9	48.1	54(note3)	-5.9	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(40MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	V	2423.6	67.9	31.8	99.7	Fundamental	/	PK
	H	341.9	14.2	16.0	30.2	46	-15.8	QP
	H	564.0	14.5	21.2	35.7	46	-10.3	QP
	V	3200.0	42.6	-0.6	42.0	54(note3)	-12.0	PK
	V	4844.0	41.2	2.6	43.8	54(note3)	-10.2	PK
	V	7290.0	44.5	8.8	53.3	54(note3)	-0.7	PK
	H	24000.0	59.1	-8.9	50.2	54(note3)	-3.8	PK
6	V	2437.0	68.6	31.2	99.8	Fundamental	/	PK
	H	291.9	12.9	14.8	27.7	46	-18.3	QP
	H	553.3	13.6	21.2	34.8	46	-11.2	QP
	V	3200.0	42.1	-0.6	41.5	54(note3)	-12.5	PK
	V	4874.0	41.6	2.8	44.4	54(note3)	-9.6	PK
	V	7349.2	32.4	9.0	41.4	54	-12.6	AV
	V	7358.0	46.6	9.0	55.6	74	-18.4	PK
	H	24000.0	59.1	-8.9	50.2	54(note3)	-3.8	PK
9	V	2453.6	66.7	30.9	97.6	Fundamental	/	PK
	H	586.3	14.1	21.2	35.3	46	-10.7	QP
	H	294.3	13.4	14.8	28.2	46	-17.8	QP
	V	3200.0	42.6	-0.6	42.0	54(note3)	-12.0	PK
	V	4904.0	41.9	2.9	44.8	54(note3)	-9.2	PK
	V	7349.4	32.2	9.0	41.2	54	-12.8	AV
	V	7349.5	45.6	9.0	54.6	74	-19.4	PK
	H	24000.0	58.4	-8.9	49.5	54(note3)	-4.5	PK

Note: 1. Measure Level = Reading Level + Factor.

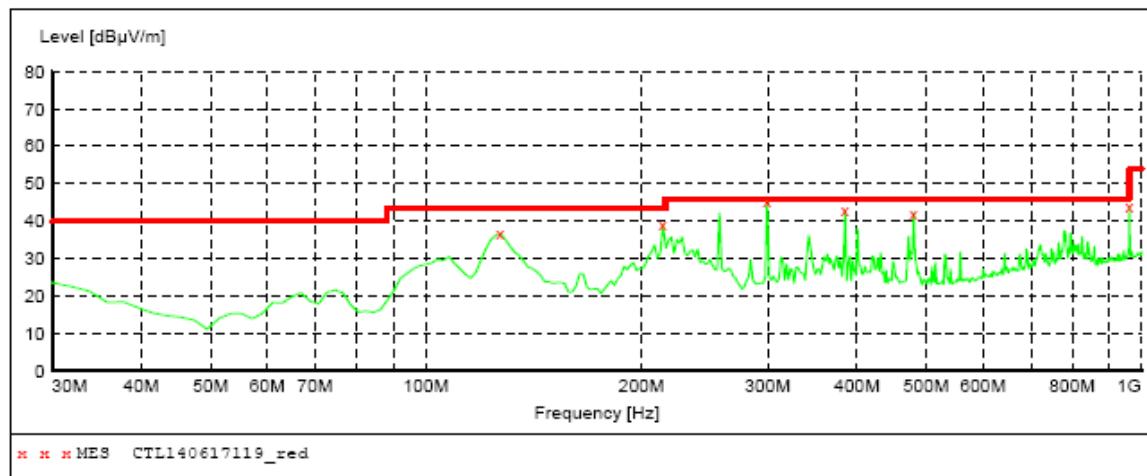
2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

The worst case of Radiated Emission below 1GHz:

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start Frequency	Stop Frequency	Detector	Meas.	IF	Transducer
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	120 kHz	JB1



MEASUREMENT RESULT: "CTL140617119_red"

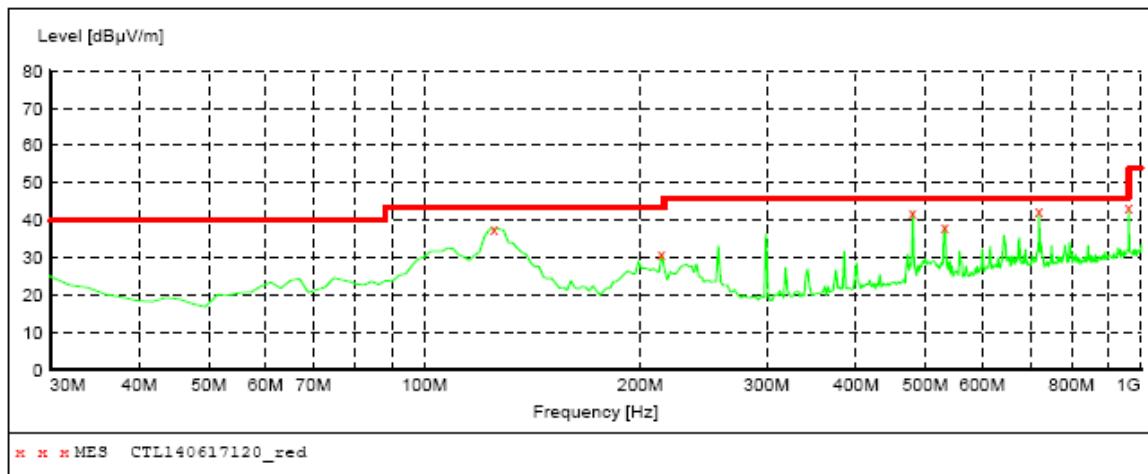
6/17/2014 1:41PM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. ---	Height cm	Azimuth deg	Polarization
127.000000	37.40	15.0	43.5	6.1	---	0.0	0.00	HORIZONTAL
214.300000	39.80	14.3	43.5	3.7	---	0.0	0.00	HORIZONTAL
299.660000	45.70	15.4	46.0	0.3	---	0.0	0.00	HORIZONTAL
385.020000	43.50	17.8	46.0	2.5	---	0.0	0.00	HORIZONTAL
480.080000	42.90	20.1	46.0	4.1	---	0.0	0.00	HORIZONTAL
961.200000	44.80	26.8	46.0	1.2	---	0.0	0.00	HORIZONTAL



SWEET TABLE: "test (30M-1G)"

Start Frequency	Stop Frequency	Detector	Meas.	IF Time	Transducer
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	120 kHz	JB1

**MEASUREMENT RESULT: "CTL140617120_red"**

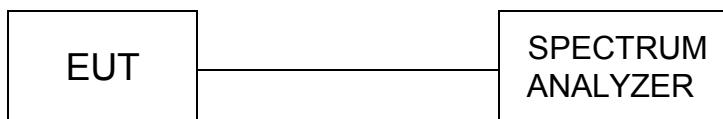
6/17/2014 1:46PM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
125.060000	37.80	15.0	43.5	5.7	---	0.0	0.00	VERTICAL
214.300000	31.00	14.3	43.5	12.5	---	0.0	0.00	VERTICAL
480.080000	42.30	20.1	46.0	3.7	---	0.0	0.00	VERTICAL
532.460000	38.40	20.6	46.0	7.6	---	0.0	0.00	VERTICAL
720.640000	42.40	23.7	46.0	3.6	---	0.0	0.00	VERTICAL
961.200000	43.30	26.8	46.0	2.7	---	0.0	0.00	VERTICAL



4.3. 6dB Bandwidth Measurement

TEST CONFIGURATION



TEST PROCEDURE

1. The testing follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.
4. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

LIMIT

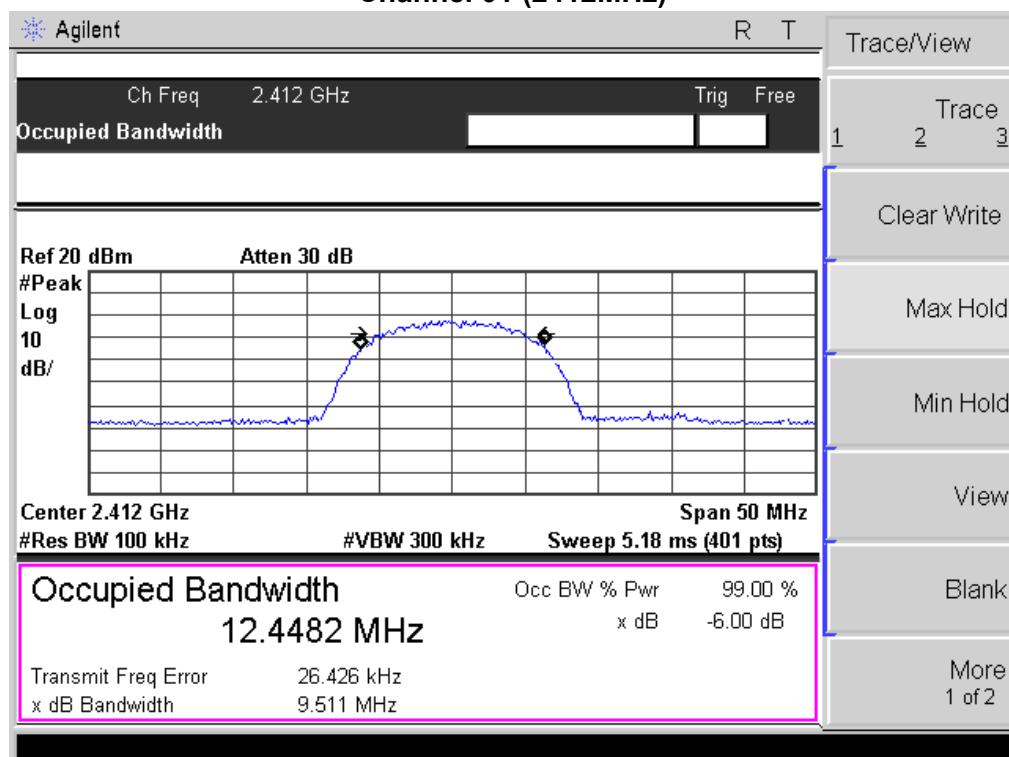
For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST RESULTS

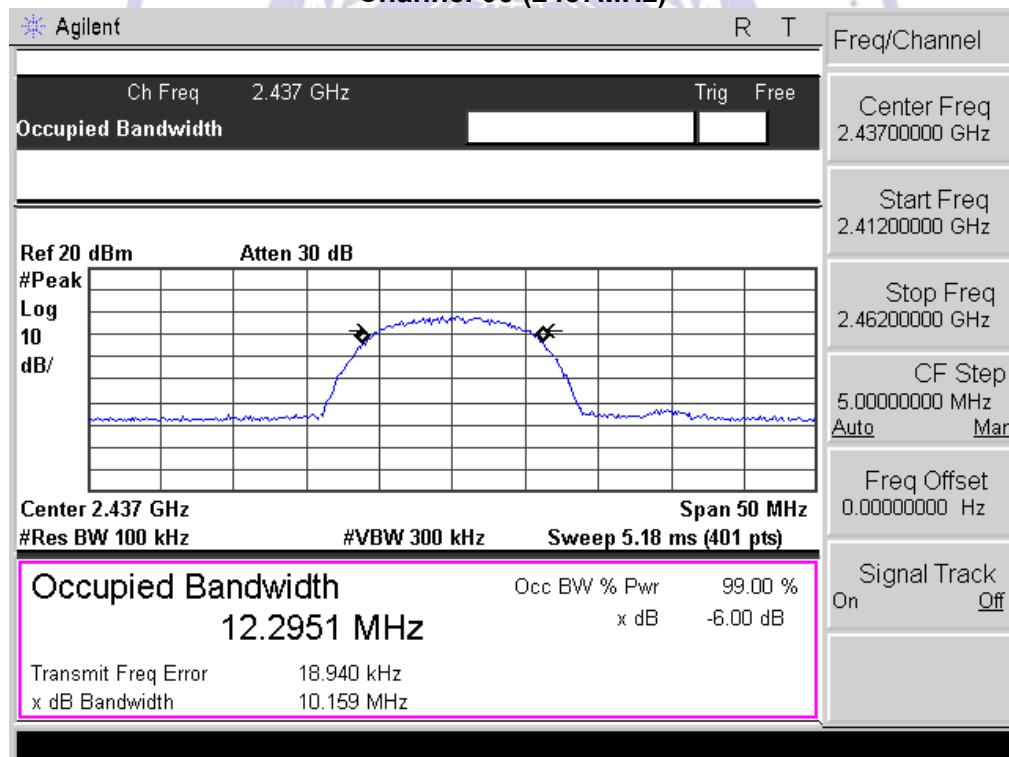
Product	:	7" Android Tablet PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b

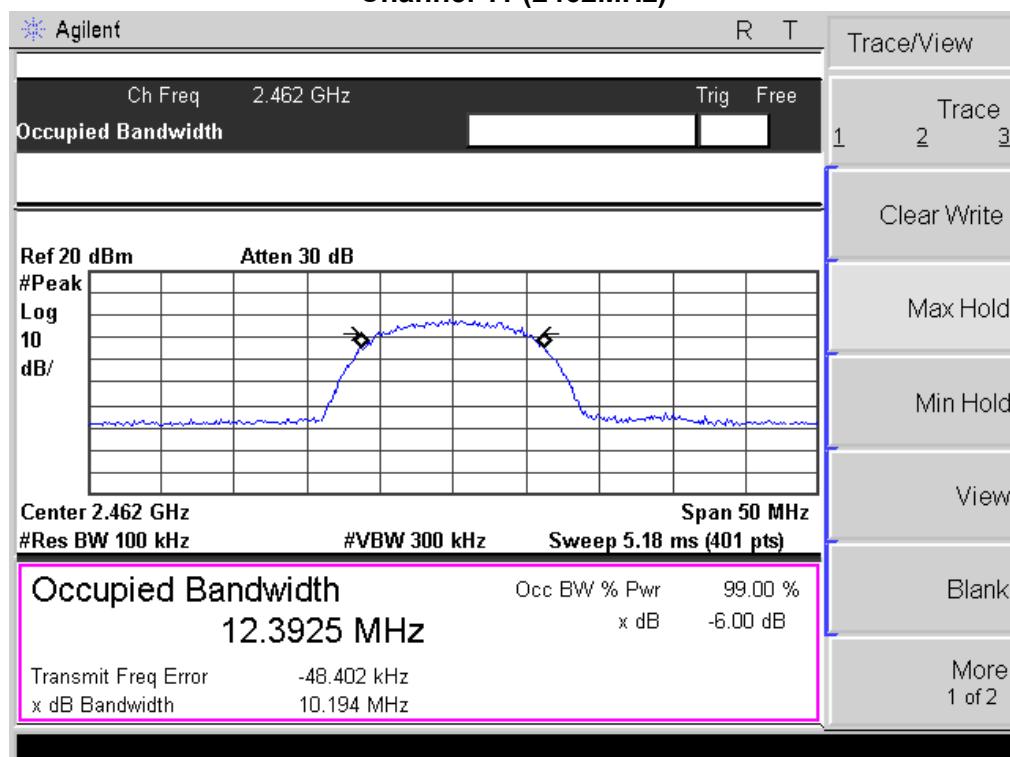
Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	9511	500	Pass
06	2437	10159	500	Pass
11	2462	10194	500	Pass

Channel 01 (2412MHz)



Channel 06 (2437MHz)

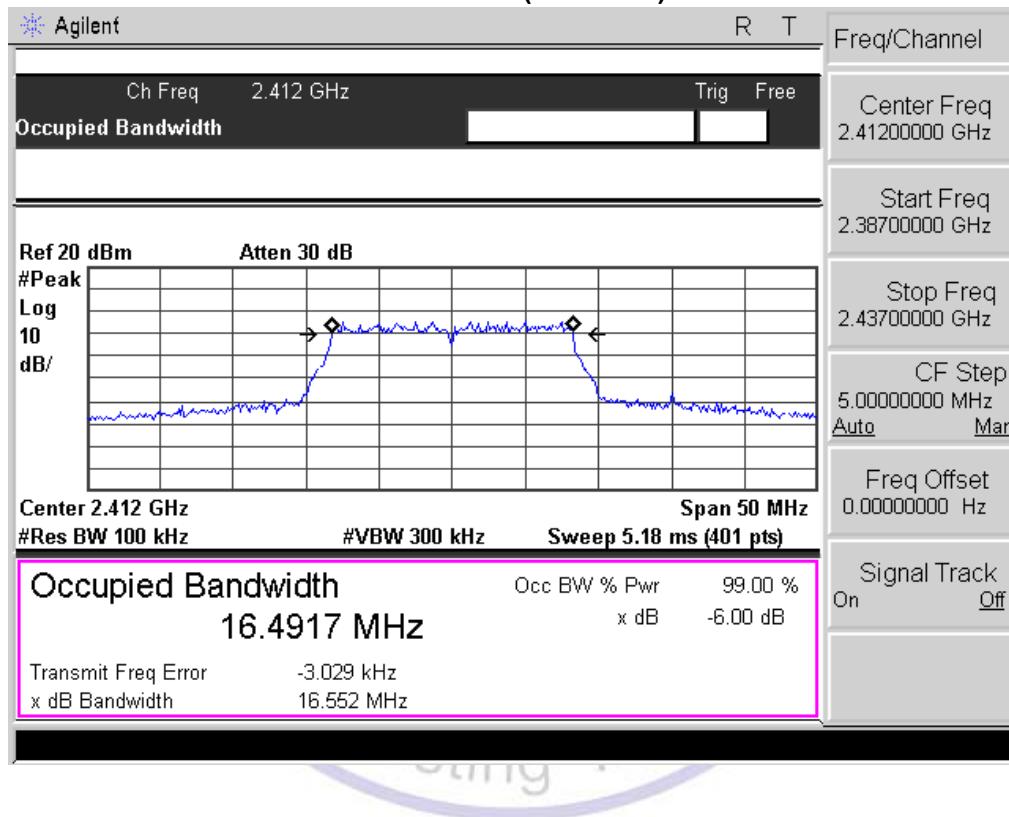


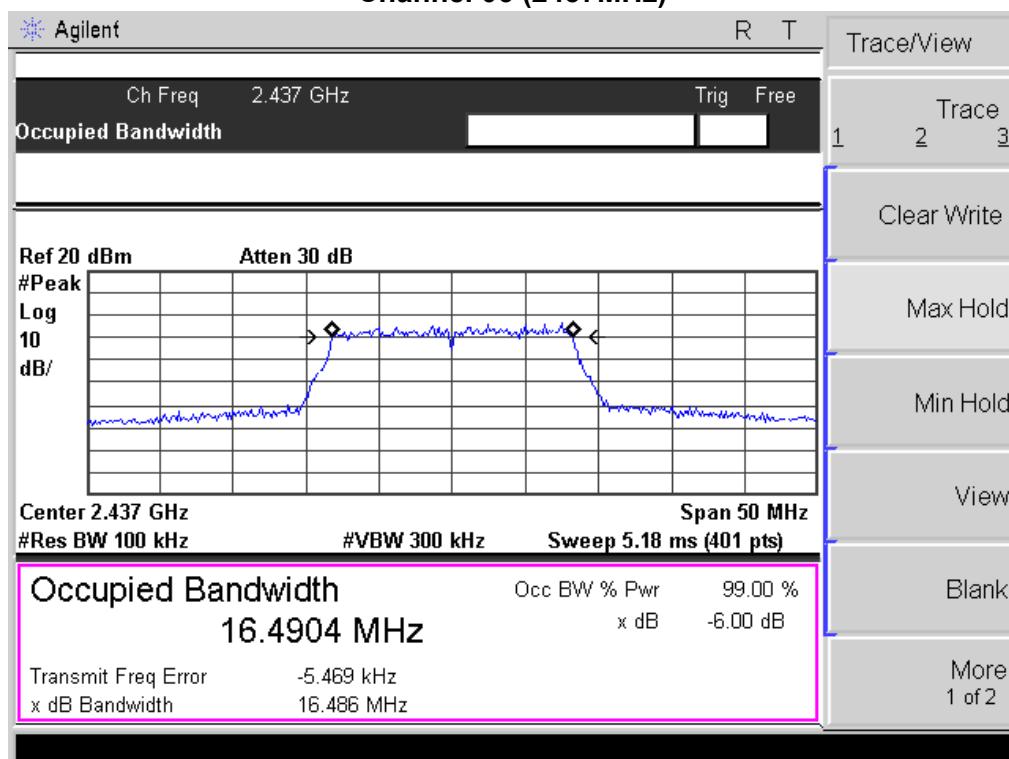
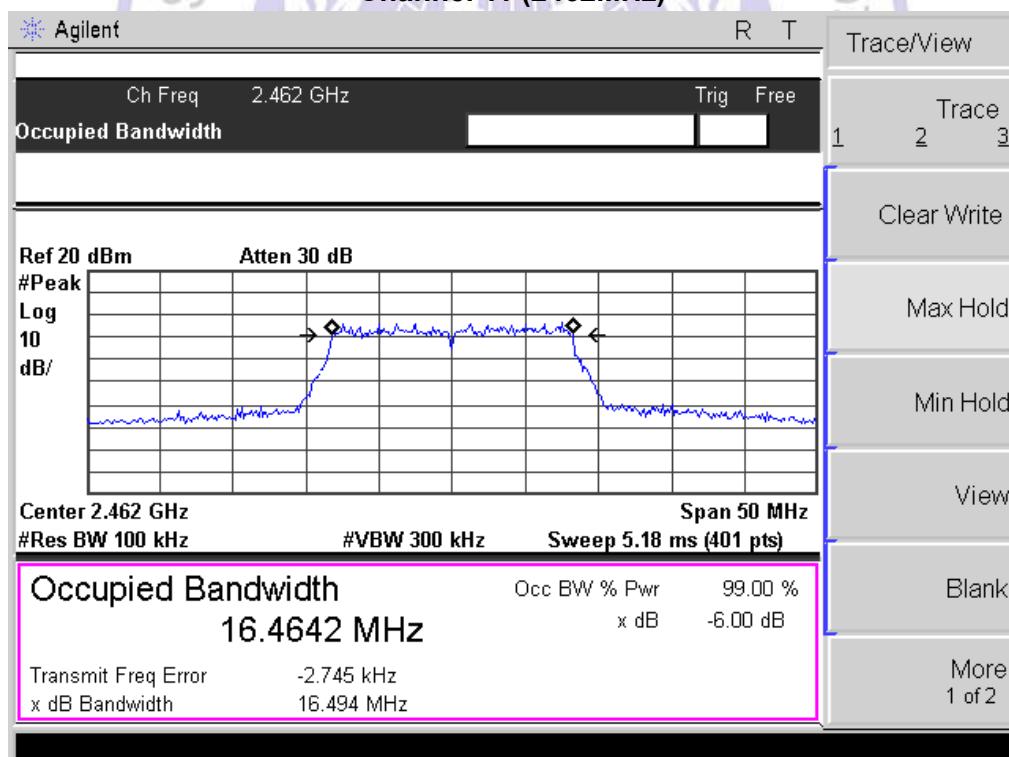
Channel 11 (2462MHz)

Product	:	7" Android Tablet PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16552	500	Pass
06	2437	16486	500	Pass
11	2462	16494	500	Pass

Channel 01 (2412MHz)

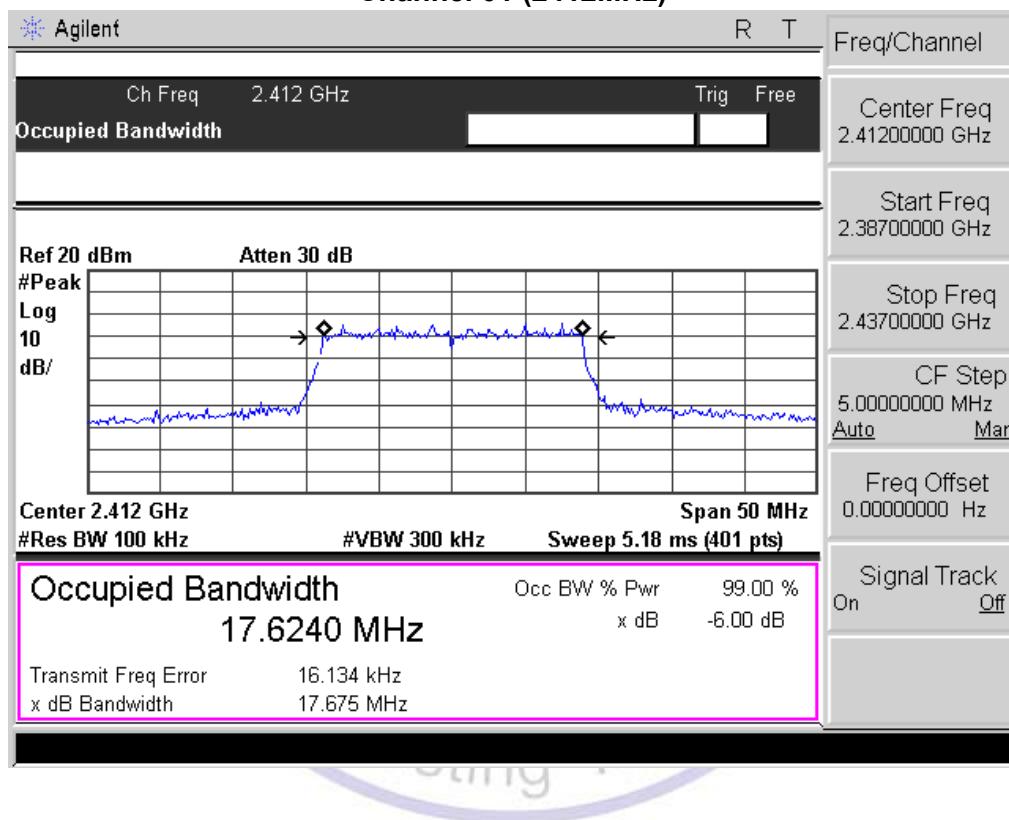


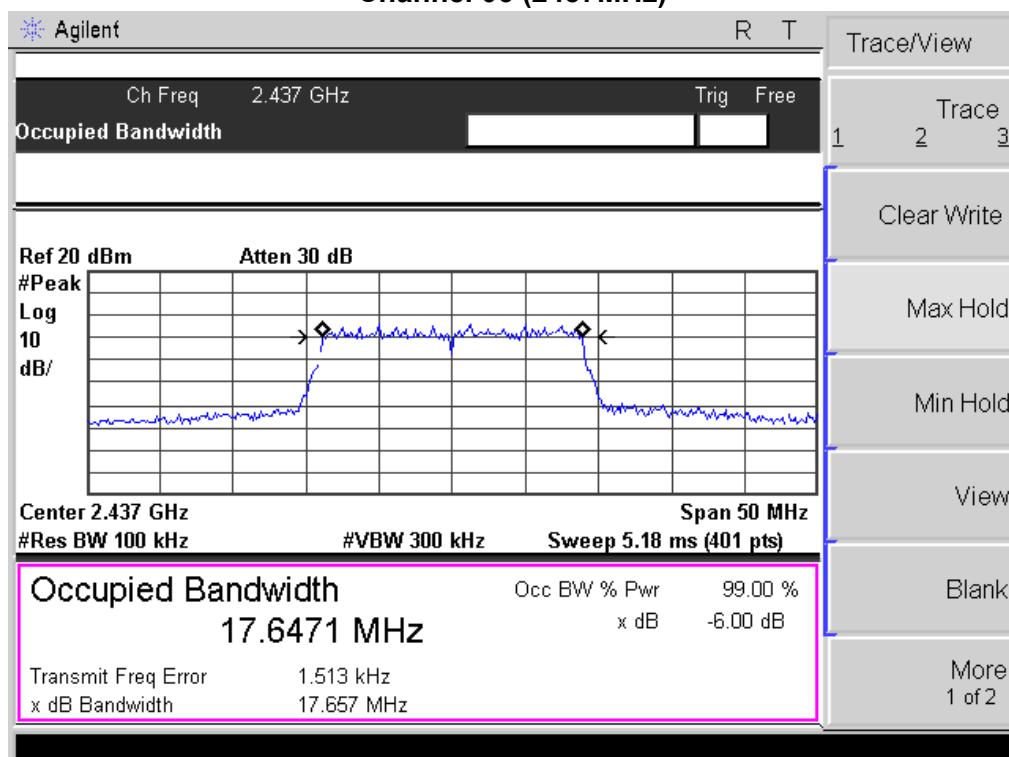
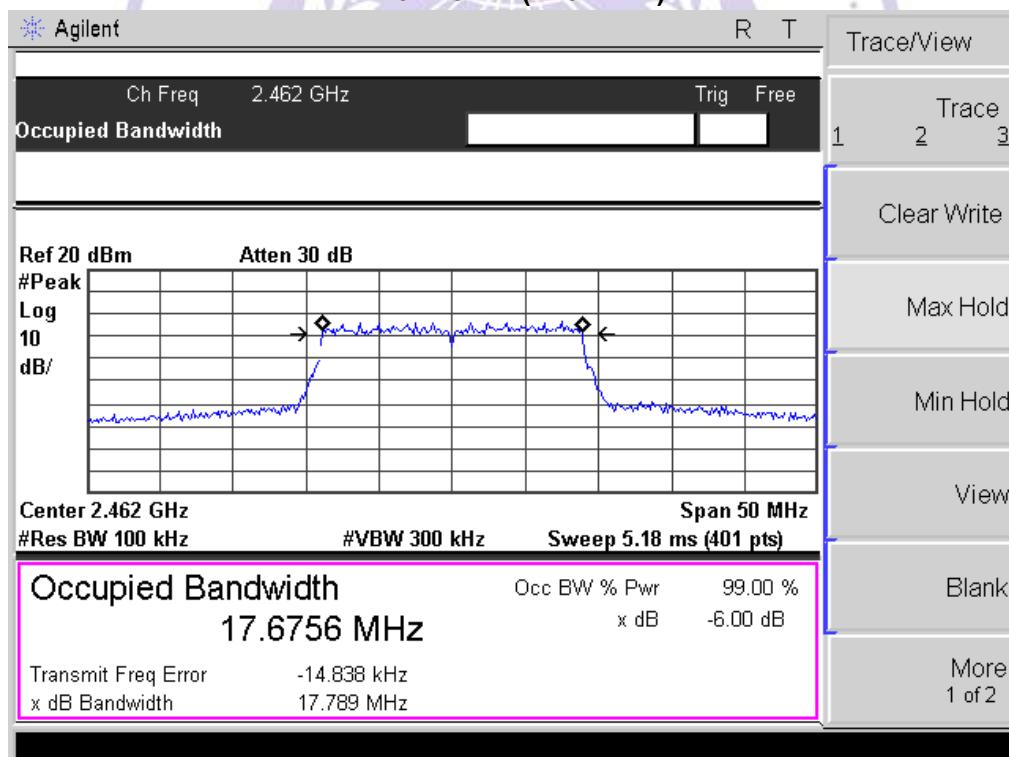
Channel 06 (2437MHz)**Channel 11 (2462MHz)**

Product	:	7" Android Tablet PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17675	500	Pass
06	2437	17657	500	Pass
11	2462	17789	500	Pass

Channel 01 (2412MHz)

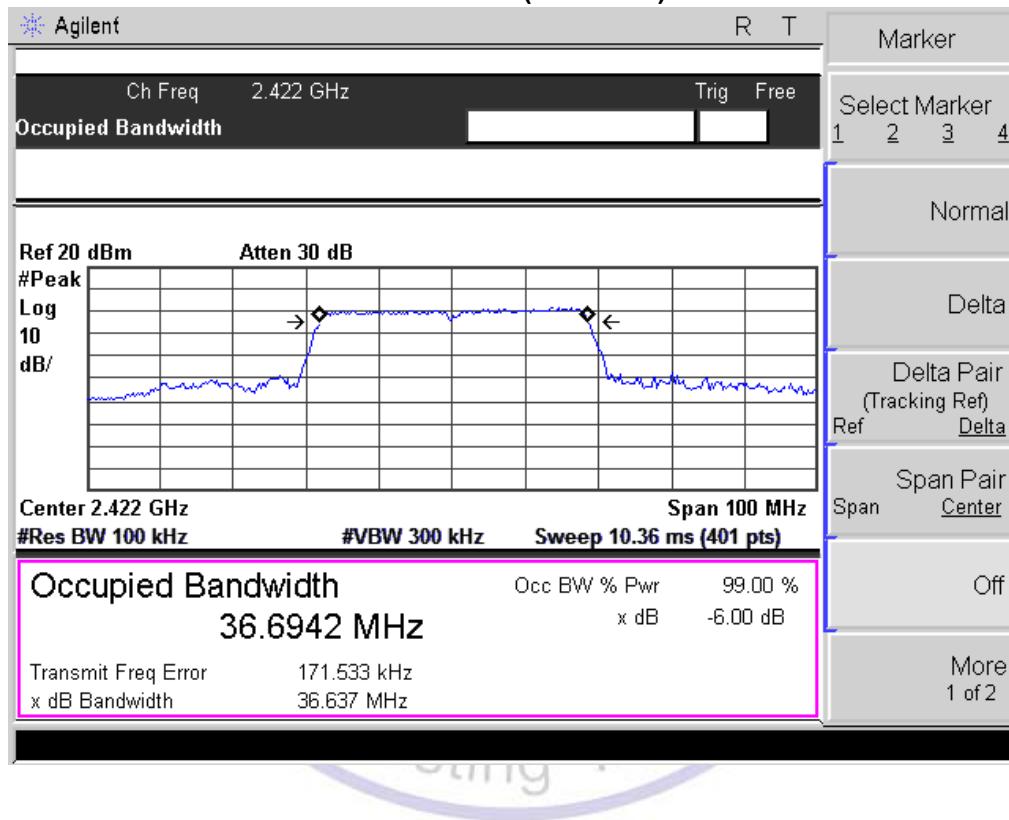


Channel 06 (2437MHz)**Channel 11 (2462MHz)**

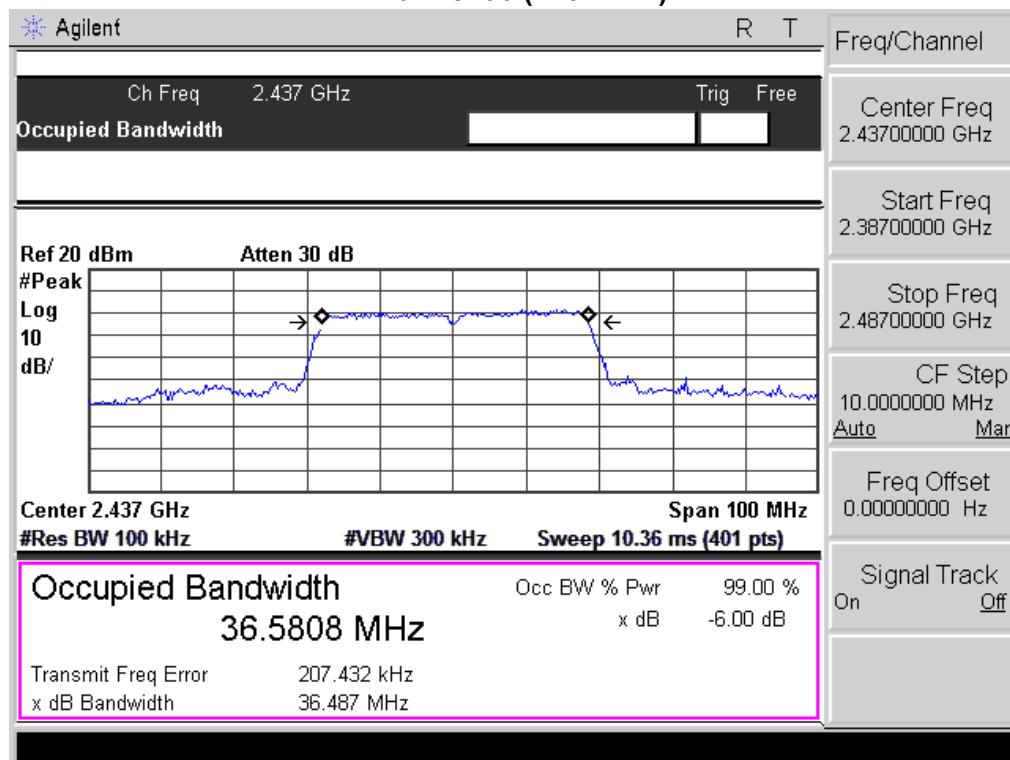
Product	:	7" Android Tablet PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36637	500	Pass
06	2437	36487	500	Pass
09	2452	36692	500	Pass

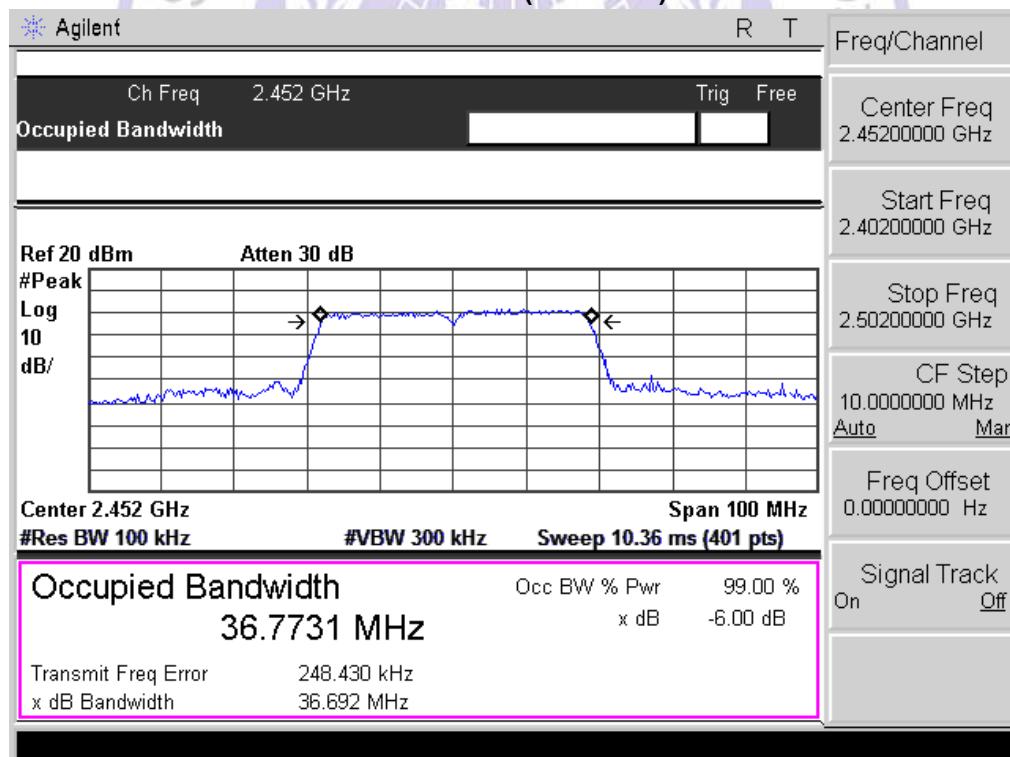
Channel 03 (2422MHz)



Channel 06 (2437MHz)

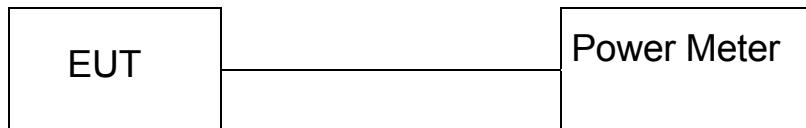


Channel 09 (2452MHz)



4.4. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to C63.10 -2009 and KDB558074, The EUT was directly connected to the power meter / spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

Use the wideband power meter to test peak power and record the result.

LIMIT

The Peak Output Power Measurement limits are 30dBm.

TEST RESULTS

Product	:	7" Android Tablet PC
Test Item	:	Power Output
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	9.46	30.00	Pass
6	2437	9.60	30.00	Pass
11	2462	9.53	30.00	Pass

Product	:	7" Android Tablet PC
Test Item	:	Power Output
Test Mode	:	Mode 2: Transmit by 802.11g

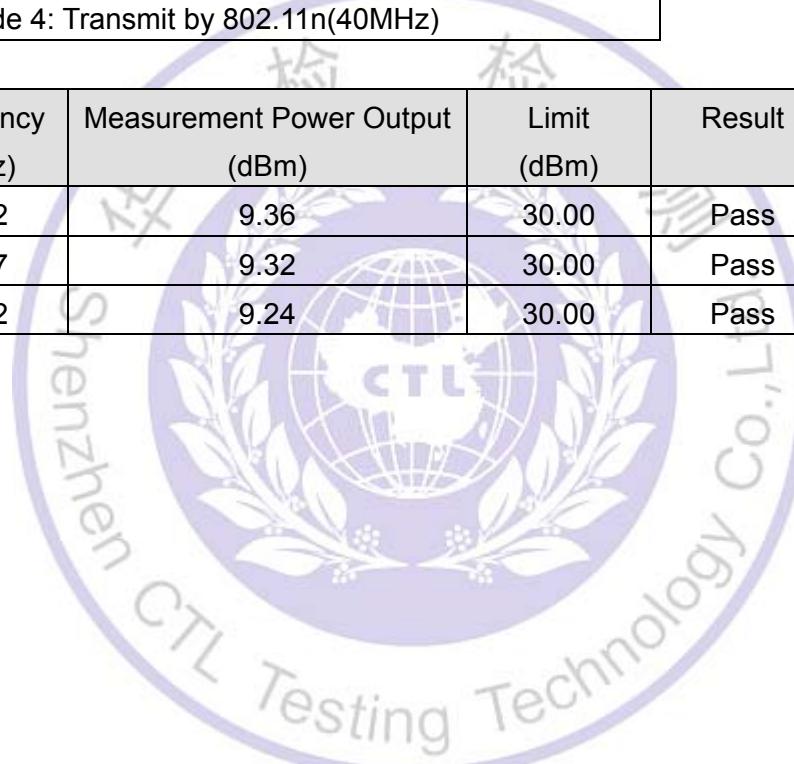
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	9.31	30.00	Pass
6	2437	9.16	30.00	Pass
11	2462	9.22	30.00	Pass

Product	:	7" Android Tablet PC
Test Item	:	Power Output
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	9.16	30.00	Pass
6	2437	9.13	30.00	Pass
11	2462	9.05	30.00	Pass

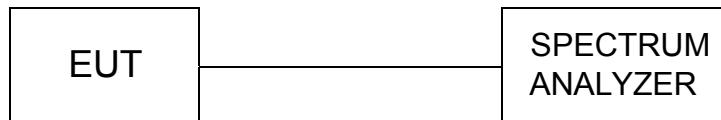
Product	:	7" Android Tablet PC
Test Item	:	Power Output
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
3	2422	9.36	30.00	Pass
6	2437	9.32	30.00	Pass
9	2452	9.24	30.00	Pass



4.5. Band Edge Measurement

TEST CONFIGURATION



TEST PROCEDURE

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 and FCC KDB Publication No. 558074 (Measurement Guidelines of DTS) with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBM= 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW and VBW to 100 kHz, to measure the conducted peak band edge.

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).

- Span: Set Span for minimum 50 MHz - Reference Level: 110 dB μ V (corrected for gains and losses of test antenna factor, preamp gain and cable loss) - Attenuation: 10 dB
- Sweep Time: Coupled - Resolution Bandwidth: Up to and including 1 GHz = ≥ 100 kHz
- Resolution Bandwidth: Above 1 GHz = 1 MHz - Video Bandwidth: Below 1 GHz = 300 kHz
- Video Bandwidth: Up to and including 1 GHz = ≥ 3 MHz for peak and 10 Hz for average
- Detector: Peak

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.

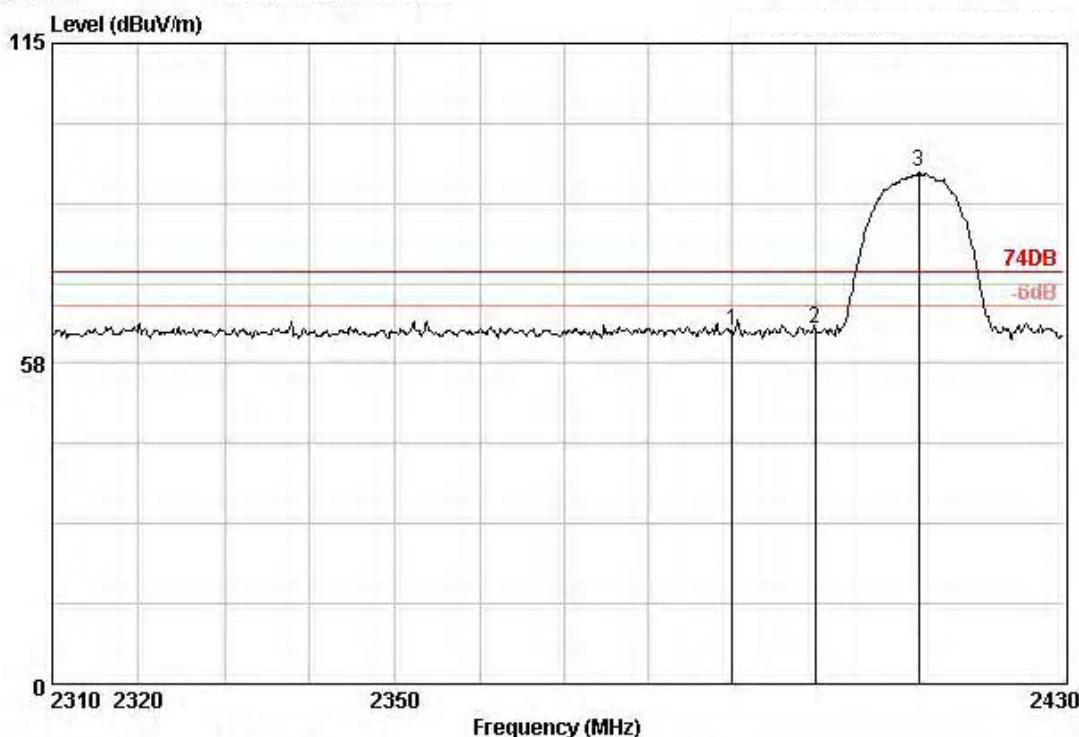
LIMIT

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209(see Section 15.205(c)).

Frequency (MHz)	Limit Average (dBuv/m)	Limit Peak (dBuv/m)
Below 2390 or Above 2483.5	54	74

TEST RESULTS

Engineer: Happy	Time: 2014/06/25
Site: AC5	
Limit: FCC Part15.209 RE(3m)	Margin: 0
Probe: BBHA 9120D 499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode1:Transmit at channel 2412MHz by 802.11b	

Data: 64

Site no.	: 3m Chamber	Data no. :	64
Dis. / Ant.	: 3m	Ant. pol. :	HORIZONTAL
Limit	: 74DB		
Env. / Ins.	: 23*C/54%		
Engineer	:		
EUT	: M/N:		
Power	: 230V/50Hz		
M/N	:		
Test Mode	:		

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2390.00	0.00	0.00	63.36	63.36	74.00	10.64	Peak	
2 2400.00	0.00	0.00	63.90	63.90	74.00	10.10	Peak	
3 2412.48	0.00	0.00	91.79	91.79	74.00	-17.79	Peak	

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode1:Transmit at channel 2412MHz by 802.11b	

Data: 71

97

Level (dBuV/m)

49

0

2310 2320

2350

2440

Frequency (MHz)

3

54dB

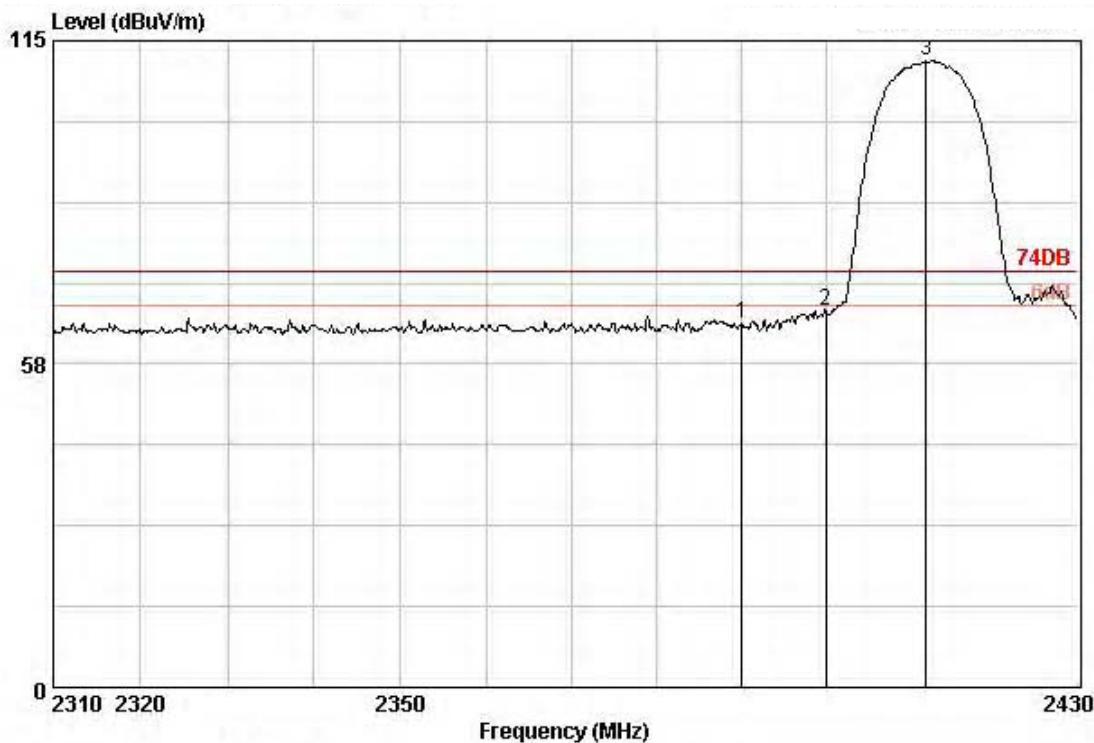
-6dB

Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 54DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT : M/N:
 Power : 230V/50Hz
 M/N :
 Test Mode :

Data no. : 71
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	30.57	30.57	54.00	23.43	Average
2 2400.00	0.00	0.00	43.01	43.01	54.00	10.99	Average
3 2412.57	0.00	0.00	87.22	87.22	54.00	-33.22	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode1:Transmit at channel 2412MHz by 802.11b	

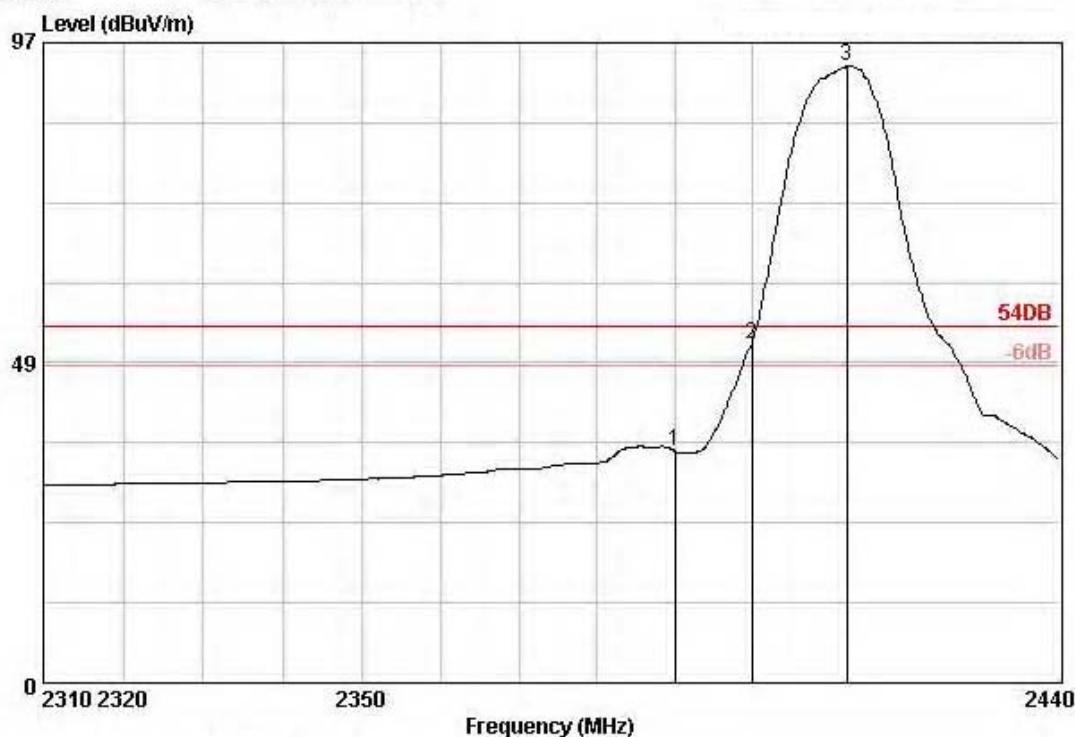


Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : 74DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT : M/N:
 Power : 230V/50Hz
 M/N :
 Test Mode :

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2390.00	0.00	0.00	64.61	64.61	74.00	9.39	Peak
2 2400.00	0.00	0.00	66.89	66.89	74.00	7.11	Peak
3 2411.88	0.00	0.00	111.36	111.36	74.00	-37.36	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode1:Transmit at channel 2412MHz by 802.11b	

Data: 70

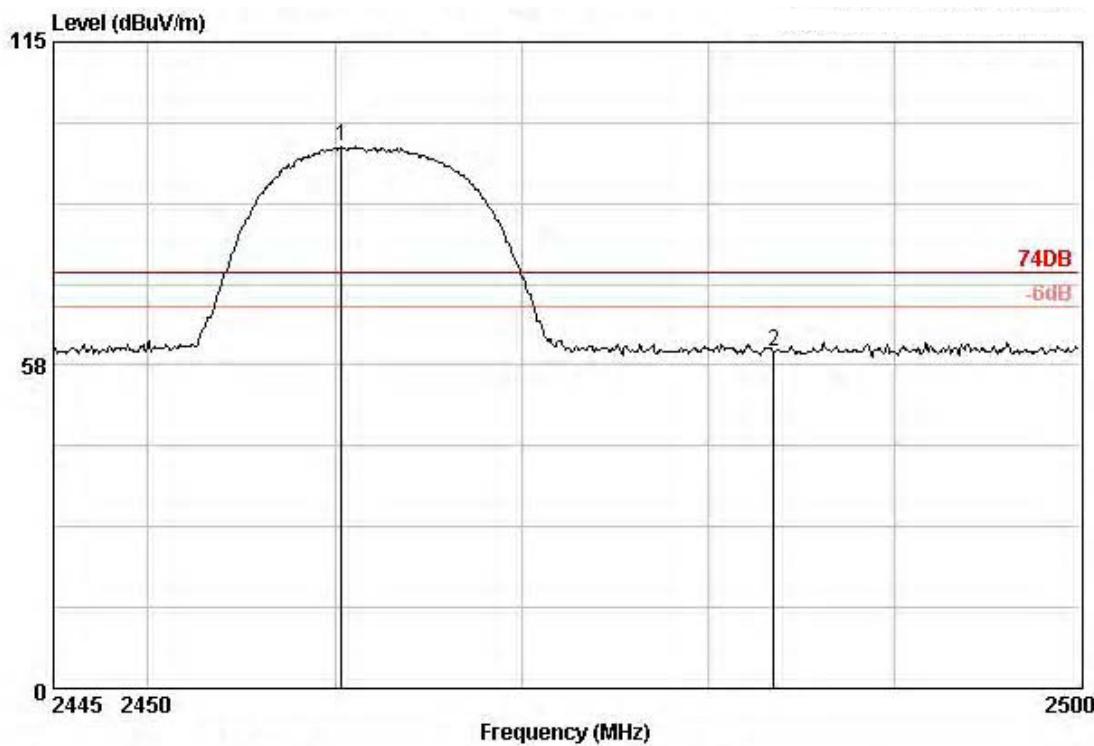


Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 54DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT : M/N:
 Power : 230V/50Hz
 M/N :
 Test Mode :

Data no. : 70
 Ant. pol. : VERTICAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	35.22	35.22	54.00	18.78	Average
2 2400.00	0.00	0.00	51.41	51.41	54.00	2.59	Average
3 2412.31	0.00	0.00	93.42	93.42	54.00	-39.42	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode1:Transmit at channel 2462MHz by 802.11b	



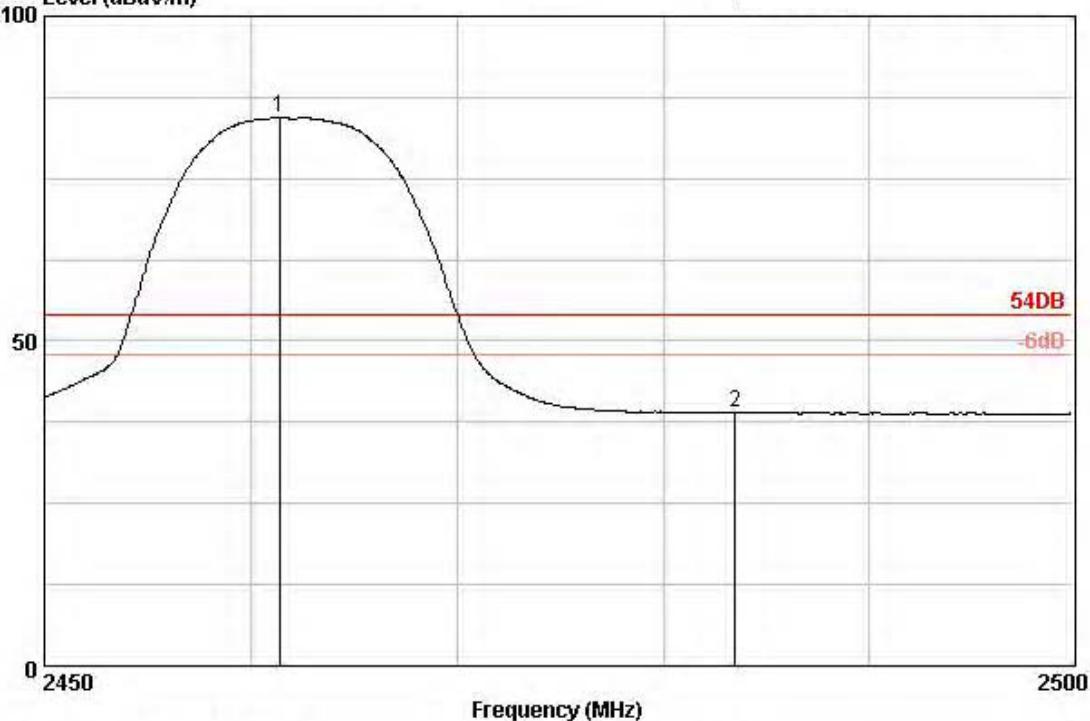
Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : 74DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT : M/N:
 Power : 230V/50Hz
 M/N :
 Test Mode :

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2460.35	0.00	0.00	96.30	96.30	74.00	-22.30	Peak
2 2483.50	0.00	0.00	59.94	59.94	74.00	14.06	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode1:Transmit at channel 2462MHz by 802.11b	

Data: 127

Level (dBuV/m)

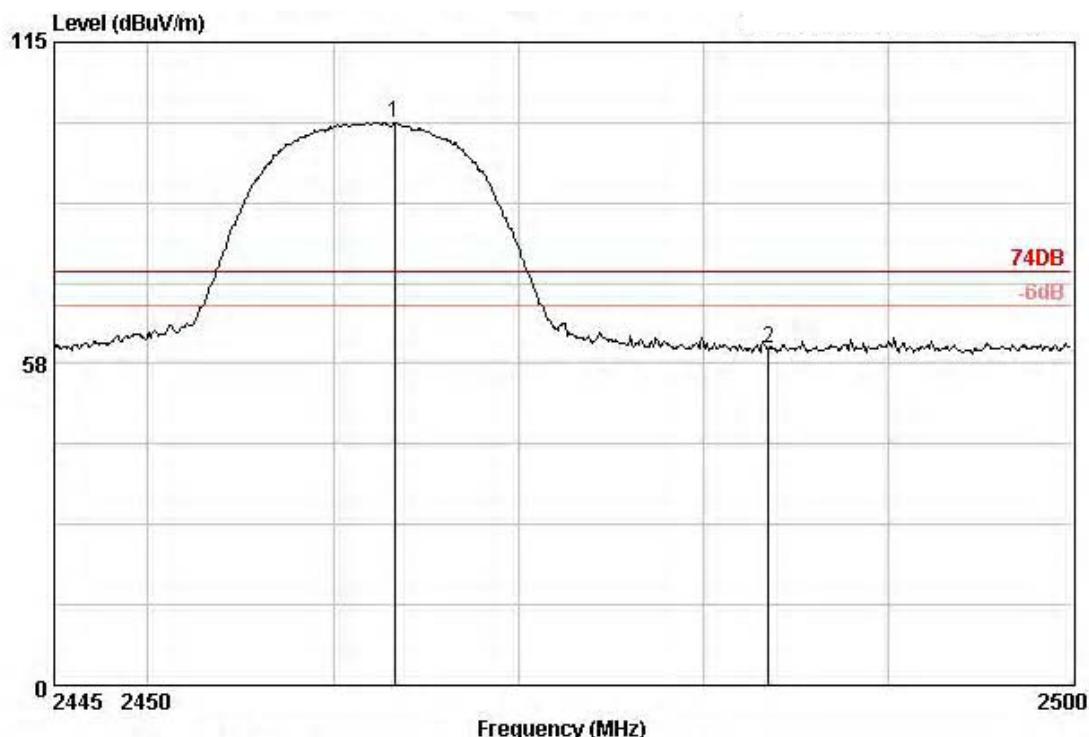


Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 54DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 127
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2461.35	0.00	0.00	84.41	84.41	54.00	-30.41	Average
2 2483.50	0.00	0.00	38.98	38.98	54.00	15.02	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode1:Transmit at channel 2462MHz by 802.11b	



Site no.	:	3m Chamber	Data no. :	74
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	74DB		
Env. / Ins.	:	23*C/54%		
Engineer	:			
EUT	:	M/N:		
Power	:	230V/50Hz		
M/N	:			
Test Mode	:			

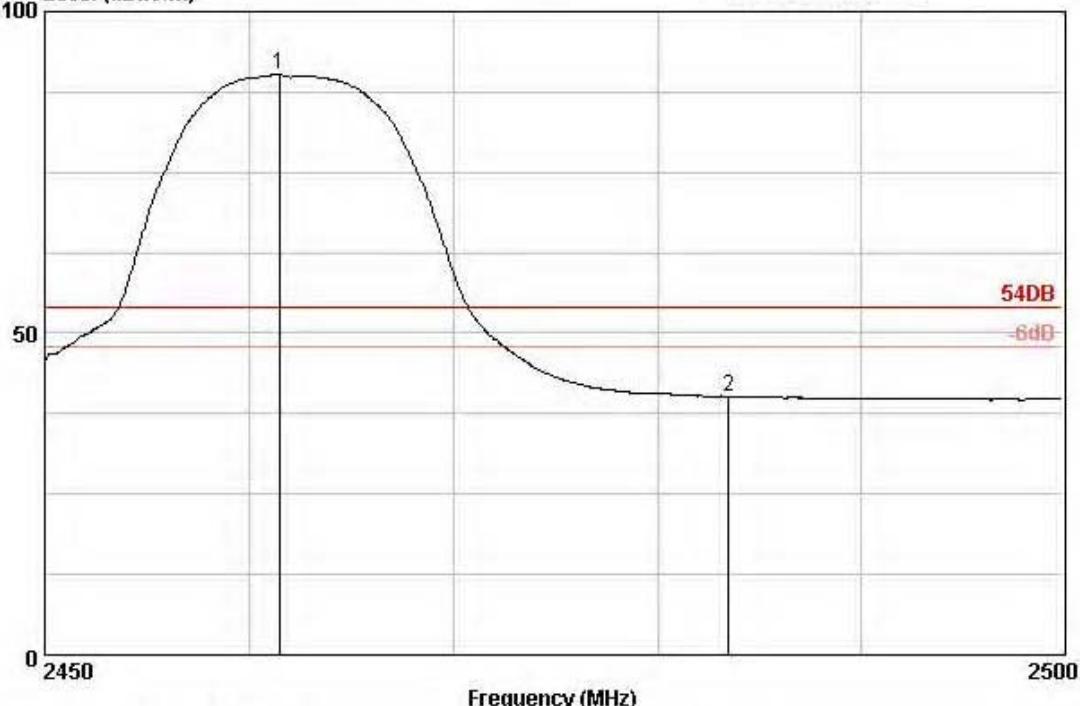
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)		
1 2463.26	0.00	0.00	100.70	100.70	74.00	-26.70	Peak
2 2483.50	0.00	0.00	60.15	60.15	74.00	13.85	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode1:Transmit at channel 2462MHz by 802.11b	

Data: 129

100

Level (dBuV/m)



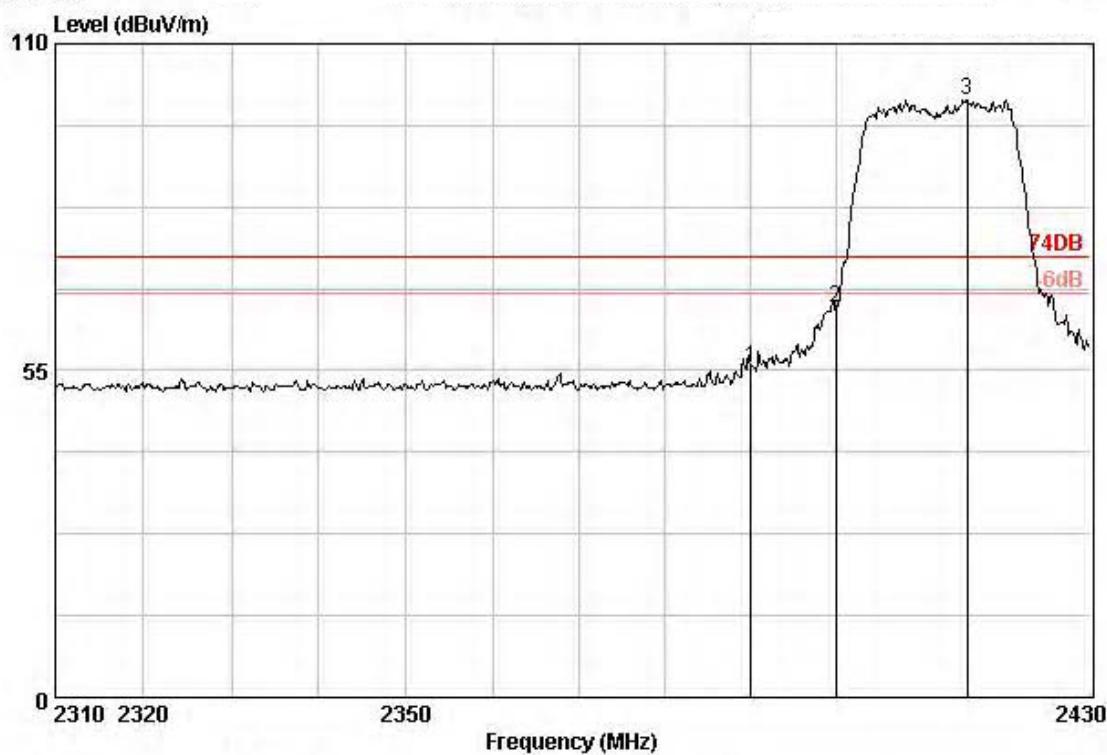
Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 54DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 129
 Ant. pol. : VERTICAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2461.45	0.00	0.00	90.17	90.17	54.00	-36.17	Average
2 2483.50	0.00	0.00	40.18	40.18	54.00	13.82	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode2:Transmit at channel 2412MHz by 802.11g	

Data: 98

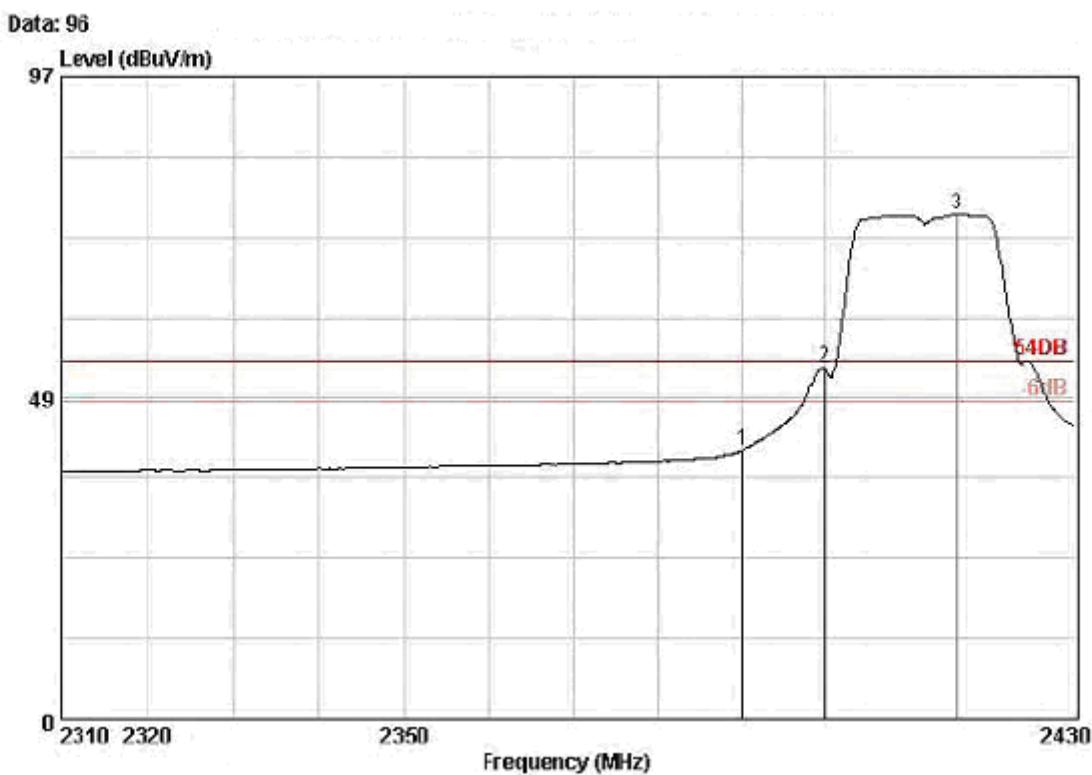


Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 74DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 98
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	55.36	55.36	74.00	18.64	Peak
2 2400.00	0.00	0.00	65.53	65.53	74.00	8.47	Peak
3 2415.48	0.00	0.00	100.59	100.59	74.00	-26.59	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode2:Transmit at channel 2412MHz by 802.11g	



Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : 54DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	40.63	40.63	54.00	13.37	Average
2 2400.00	0.00	0.00	52.88	52.88	54.00	1.12	Average
3 2415.84	0.00	0.00	76.23	76.23	54.00	-22.23	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode2:Transmit at channel 2412MHz by 802.11g	

Data: 97

110

Level (dBuV/m)

55

0

2310

2350

2430

Frequency (MHz)

Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 74DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 97
 Ant. pol. : VERTICAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	60.13	60.13	74.00	13.87	Peak
2 2400.00	0.00	0.00	73.22	73.22	74.00	0.78	Peak
3 2408.88	0.00	0.00	106.43	106.43	74.00	-32.43	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode2:Transmit at channel 2412MHz by 802.11g	

Data: 99

97

Level (dBuV/m)

49

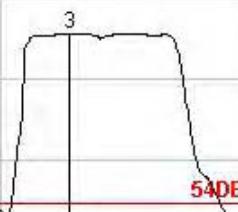
0

2310 2320

2350

2430

Frequency (MHz)



Site no. : 3m Chamber

Data no. : 99

Dis. / Ant. : 3m

Ant. pol. : VERTICAL

Limit : 54DB

Env. / Ins. : 23*C/54%

Engineer :

EUT :

Power :

M/N : 95

Test Mode :

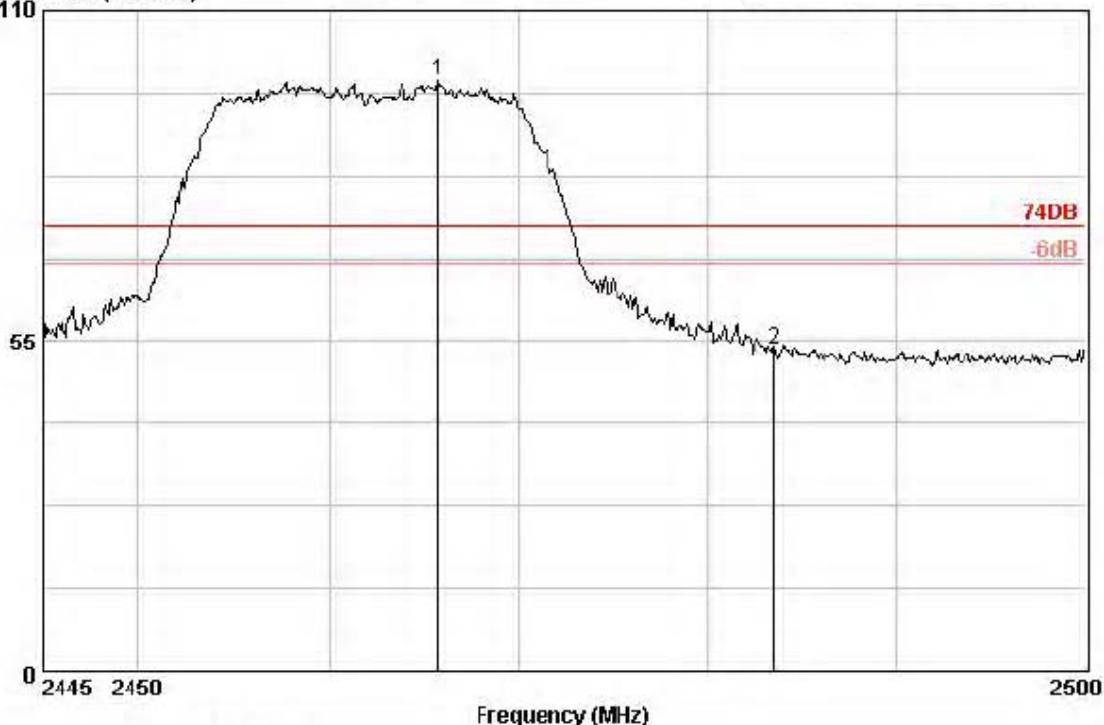
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	38.13	38.13	54.00	15.87	Average
2 2400.00	0.00	0.00	49.82	49.82	54.00	4.18	Average
3 2408.28	0.00	0.00	79.51	79.51	54.00	-25.51	Average

Engineer: Happy	Time: 2014/06/25
Site: AC5	Margin: 0
Limit: FCC_Part15.209_RE(3m)	Polarity: Horizontal
Probe: BBHA 9120D_499(1-18GHz)	Power: AC 120V/60Hz
EUT: 7" Android Tablet PC	
Note: Mode2:Transmit at channel 2462MHz by 802.11g	

Data: 90

110

Level (dBuV/m)



Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 74DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 90
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Int. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2465.74	0.00	0.00	98.29	98.29	74.00	-24.29	Peak	
2 2483.50	0.00	0.00	53.64	53.64	74.00	20.36	Peak	

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode2:Transmit at channel 2462MHz by 802.11g	

Data: 94

97

Level (dBuV/m)

40

54DB

0

-6dB

2445 2450

2500

Frequency (MHz)

Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 54DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 94
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission				Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2465.74	0.00	0.00	68.05	68.05	54.00	-14.05	Average	
2 2483.50	0.00	0.00	37.87	37.87	54.00	16.13	Average	

Engineer: Happy	Time: 2014/06/25
Site: AC5	Margin: 0
Limit: FCC_Part15.209_RE(3m)	Polarity: Vertical
Probe: BBHA 9120D_499(1-18GHz)	Power: AC 120V/60Hz
EUT: 7" Android Tablet PC	
Note: Mode2:Transmit at channel 2462MHz by 802.11g	

Data: 88

110

Level (dBuV/m)

55

0

2445 2450

74DB

-6dB

Frequency (MHz)

2500

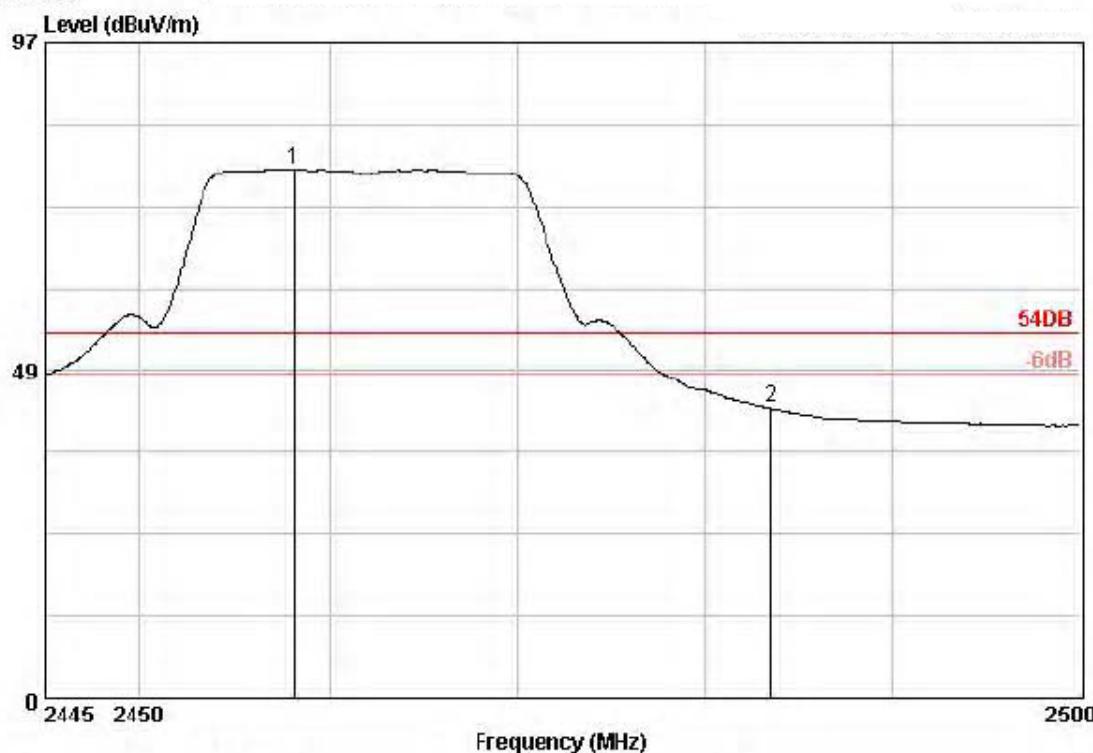
Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 74DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 88
 Ant. pol. : VERTICAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuW)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2458.70	0.00	0.00	106.46	106.46	74.00	-32.46	Peak	
2 2483.50	0.00	0.00	57.04	57.04	74.00	16.96	Peak	

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode2:Transmit at channel 2462MHz by 802.11g	

Data: 92



Site no.	:	3m Chamber	Data no. :	92
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	54DB		
Env. / Ins.	:	23°C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2458.15	0.00	0.00	78.42	78.42	54.00	-24.42	Average
2 2483.50	0.00	0.00	42.83	42.83	54.00	11.17	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode3:Transmit at channel 2412MHz by 802.11n20MHz	

Data: 98

110

Level (dBuV/m)

55

0 2310 2320

2350

2430

Frequency (MHz)

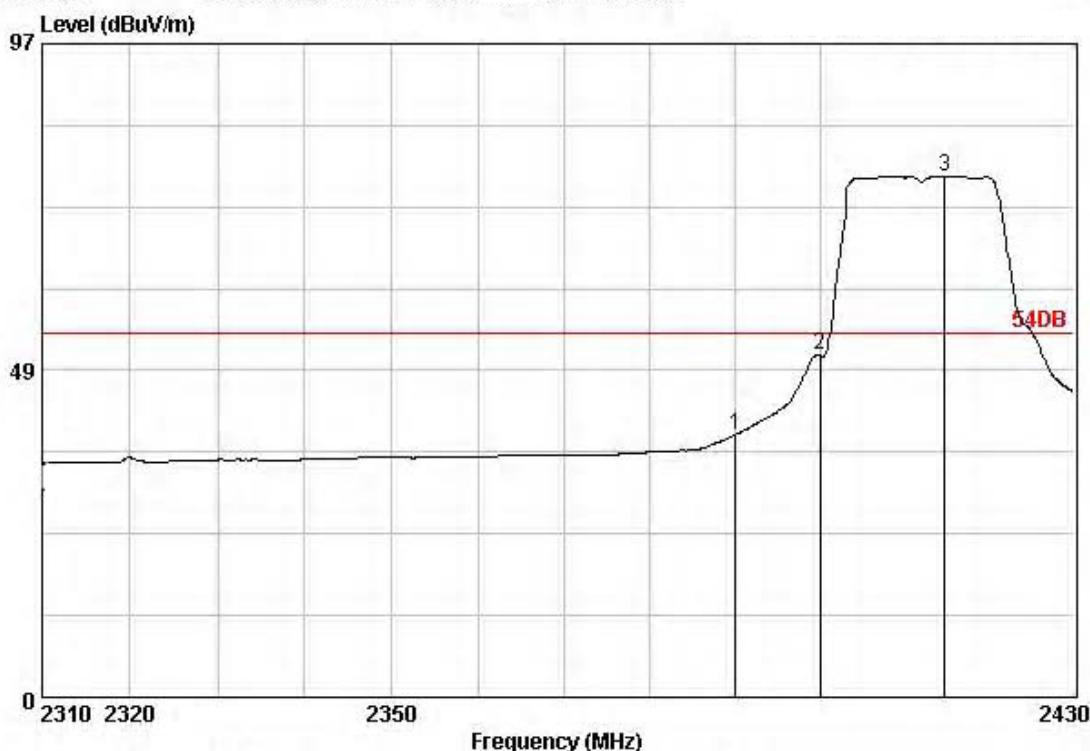
Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 74DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 98
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	55.36	55.36	74.00	18.64	Peak
2 2400.00	0.00	0.00	65.53	65.53	74.00	8.47	Peak
3 2415.48	0.00	0.00	100.59	100.59	74.00	-26.59	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode3:Transmit at channel 2412MHz by 802.11n20MHz	

Data: 100

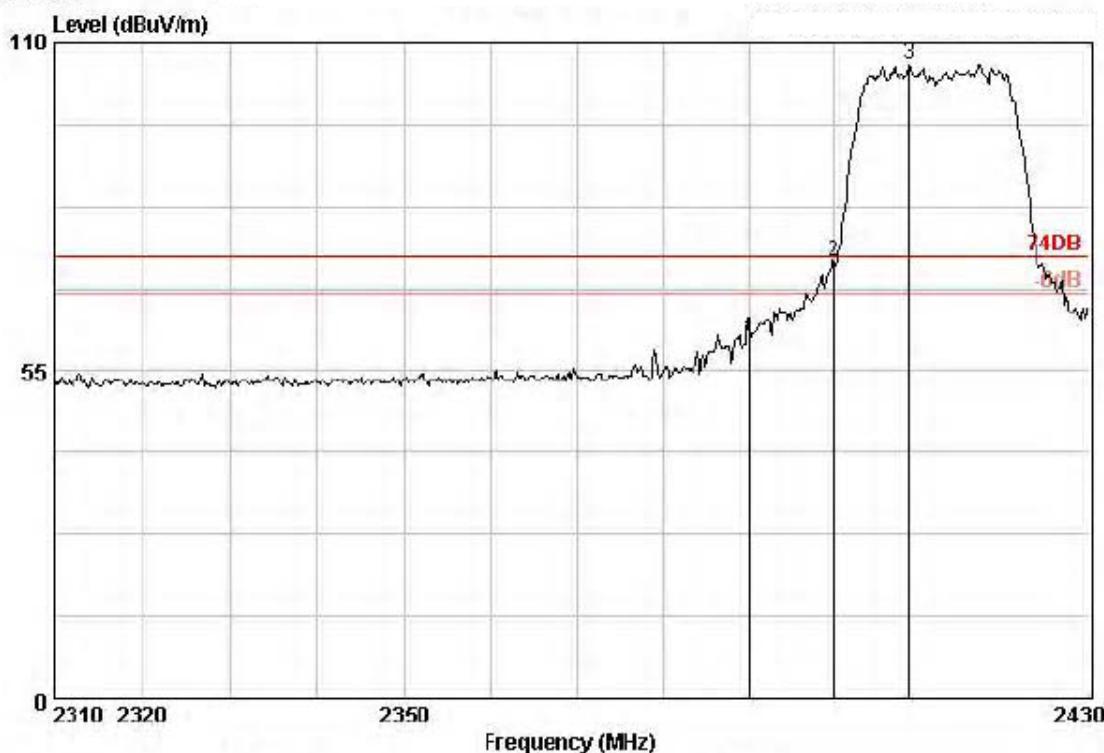


Site no.	:	3m Chamber	Data no. :	100
Dis. / Ant.	:	3m	Ant. pol. :	HORIZONTAL
Limit	:	54DB		
Env. / Ins.	:	23°C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	38.95	38.95	54.00	15.05	Average
2 2400.00	0.00	0.00	50.68	50.68	54.00	3.32	Average
3 2414.64	0.00	0.00	77.39	77.39	54.00	-23.39	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode3:Transmit at channel 2412MHz by 802.11n20MHz	

Data: 97

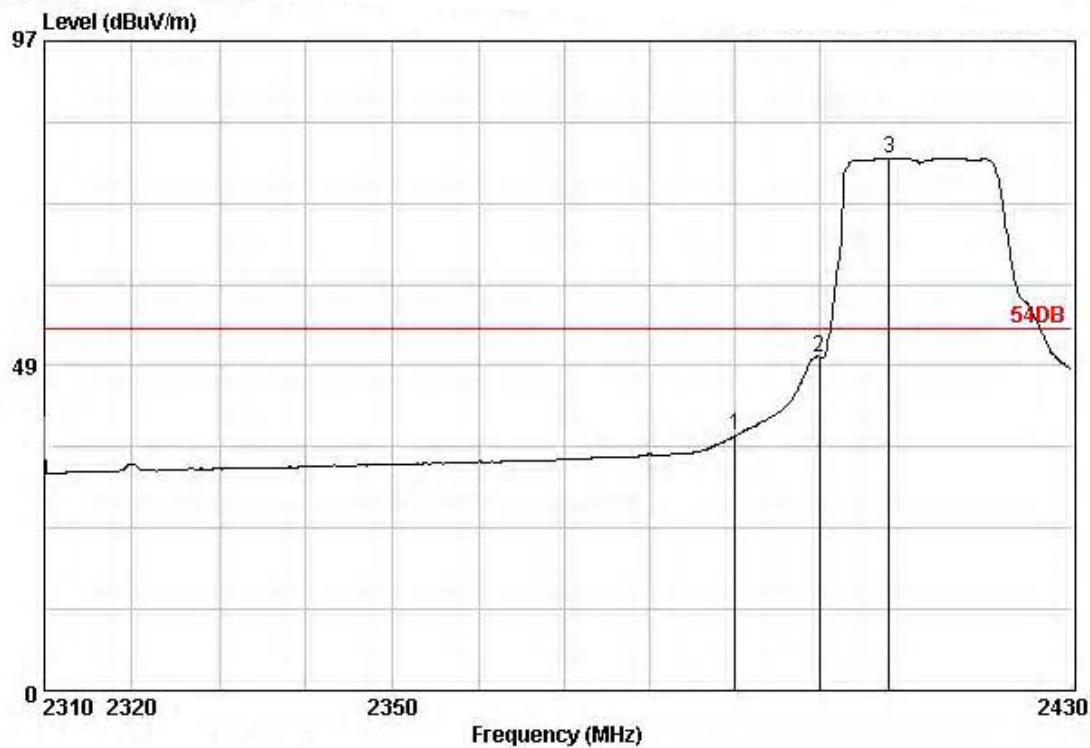


Site no.	:	3m Chamber	Data no. :	97
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	74DB		
Env. / Ins.	:	23*C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	60.13	60.13	74.00	13.87	Peak
2 2400.00	0.00	0.00	73.22	73.22	74.00	0.78	Peak
3 2408.88	0.00	0.00	106.43	106.43	74.00	-32.43	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode3:Transmit at channel 2412MHz by 802.11n20MHz	

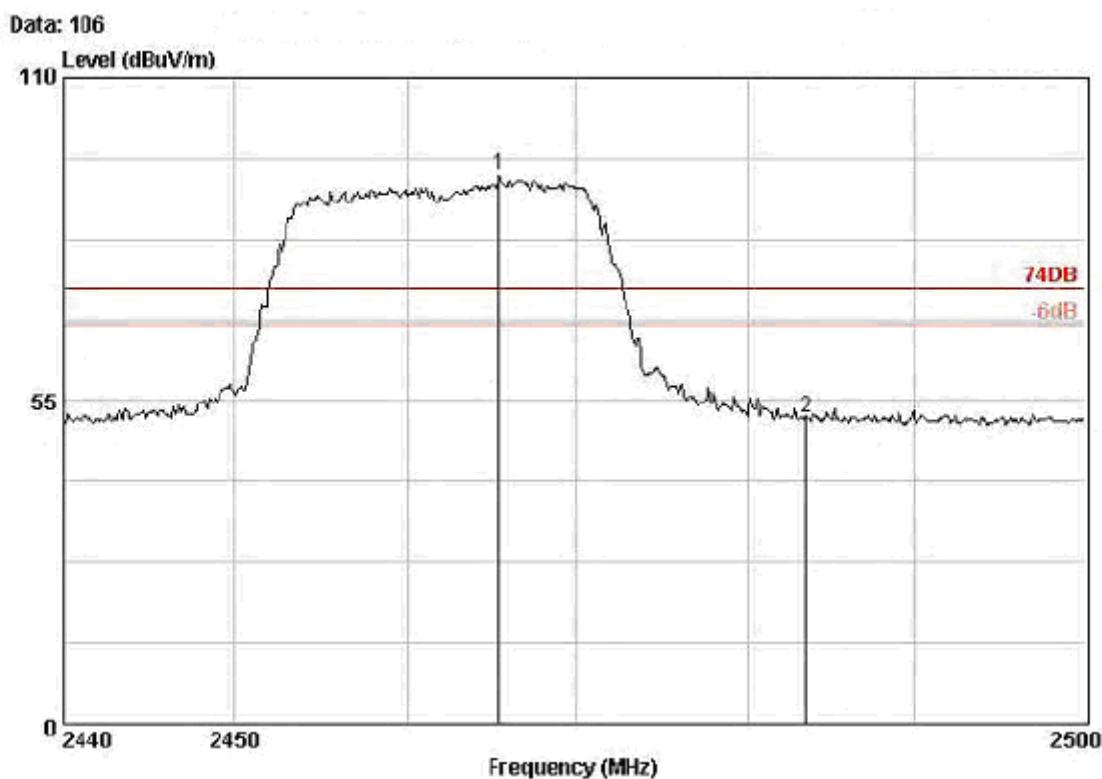
Data: 99



Site no.	:	3m Chamber	Data no. :	99
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	54DB		
Env. / Ins.	:	23*C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2390.00	0.00	0.00	38.13	38.13	54.00	15.87	Average	
2 2400.00	0.00	0.00	49.82	49.82	54.00	4.18	Average	
3 2408.28	0.00	0.00	79.51	79.51	54.00	-25.51	Average	

Engineer: Happy	Time: 2014/06/25
Site: AC5	Margin: 0
Limit: FCC_Part15.209_RE(3m)	Polarity: Horizontal
Probe: BBHA 9120D_499(1-18GHz)	Power: AC 120V/60Hz
EUT: 7" Android Tablet PC	
Note: Mode3:Transmit at channel 2462MHz by 802.11n20MHz	



Site no. : 3m Chamber Data no. : 106
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : 74DB
 Env. / Ins. : 23°C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2465.44	0.00	0.00	93.51	93.51	74.00	-19.51	Peak
2 2483.50	0.00	0.00	52.16	52.16	74.00	21.84	Peak

Engineer: Happy	Time: 2014/06/25
Site: AC5	Margin: 0
Limit: FCC_Part15.209_RE(3m)	Polarity: Horizontal
Probe: BBHA 9120D_499(1-18GHz)	Power: AC 120V/60Hz
EUT: 7" Android Tablet PC	
Note: Mode3:Transmit at channel 2462MHz by 802.11n20MHz	

Data: 104

97

Level (dBuV/m)

49

0

2440

2450

54dB

-6dB

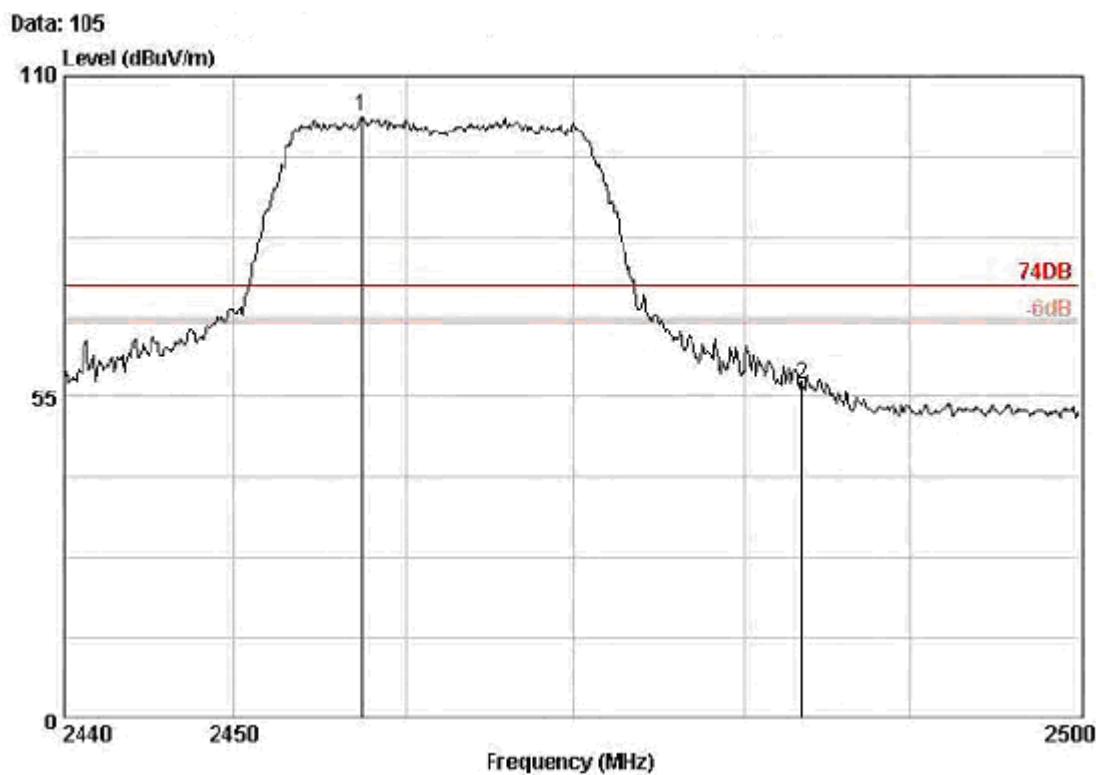
2500

Frequency (MHz)

Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : 54dB
 Env. / Ins. : 23°C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2458.24	0.00	0.00	76.47	76.47	54.00	-22.47	Average
2 2483.50	0.00	0.00	41.88	41.88	54.00	12.12	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode3:Transmit at channel 2462MHz by 802.11n20MHz	

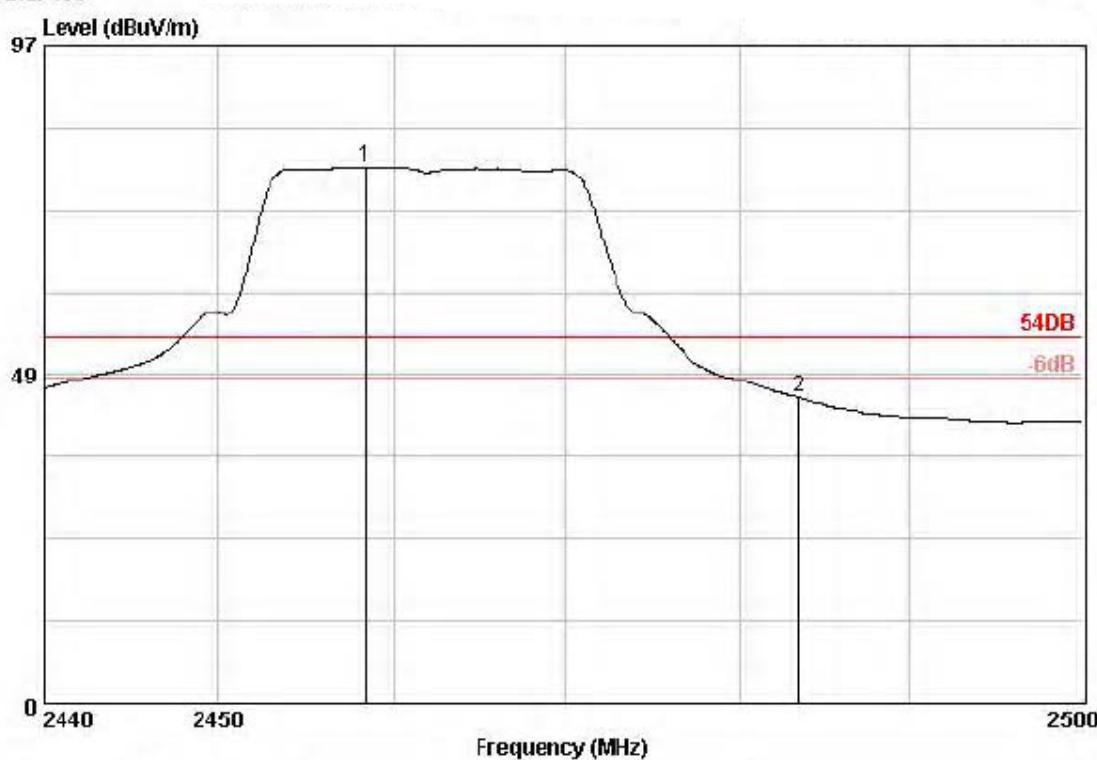


Site no.	:	3m Chamber	Data no. :	105
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	74DB		
Env. / Ins.	:	23°C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2457.52	0.00	0.00	103.24	103.24	74.00	-29.24	Peak
2 2483.50	0.00	0.00	57.35	57.35	74.00	16.65	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode3:Transmit at channel 2462MHz by 802.11n20MHz	

Data: 103

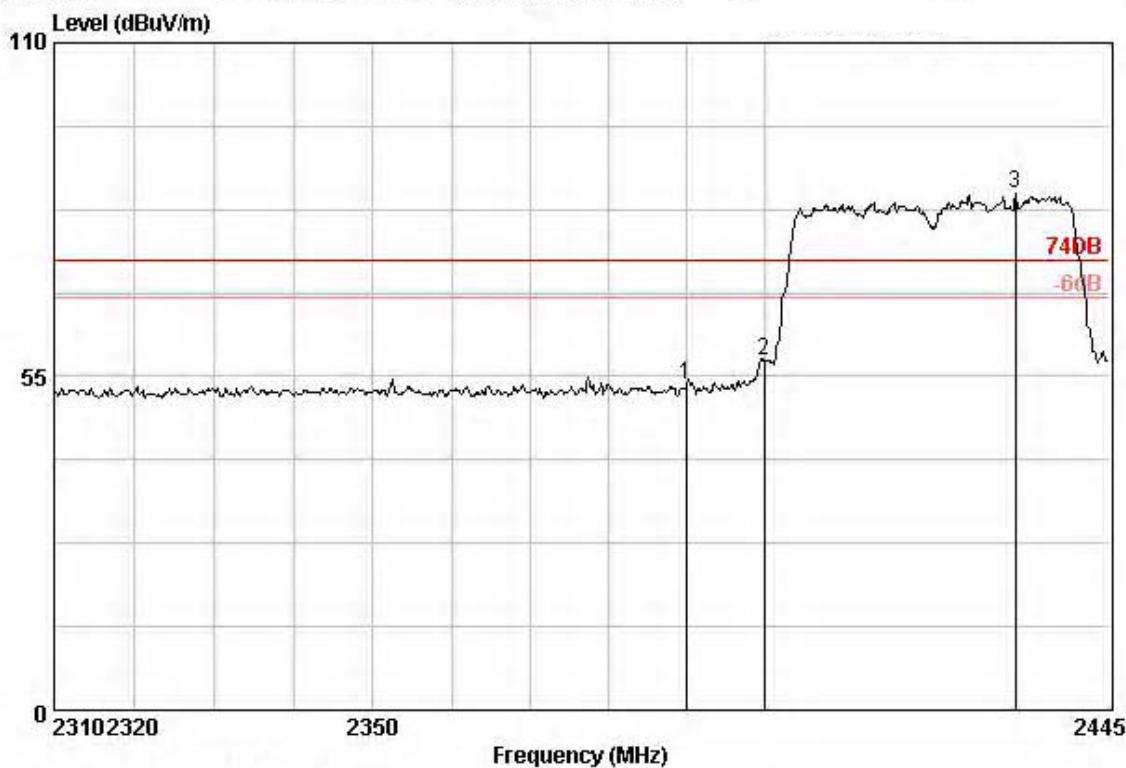


Site no.	:	3m Chamber	Data no. :	103
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	54DB		
Env. / Ins.	:	23*C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2458.42	0.00	0.00	79.26	79.26	54.00	-25.26	Average
2 2483.50	0.00	0.00	45.09	45.09	54.00	8.91	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode4:Transmit at channel 2422MHz by 802.11n40MHz	

Data: 111



Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 74DB
 Env. / Ins. : 23°C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

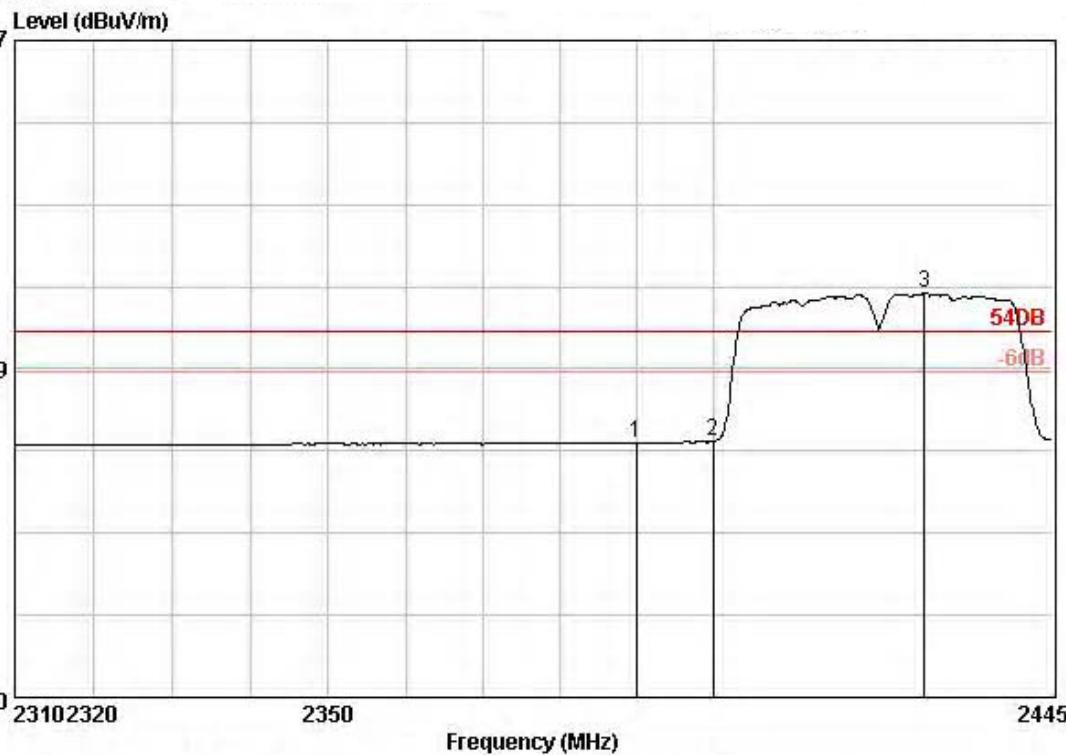
Data no. : 111
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	53.68	53.68	74.00	20.32	Peak
2 2400.00	0.00	0.00	57.69	57.69	74.00	16.31	Peak
3 2432.72	0.00	0.00	85.03	85.03	74.00	-11.03	Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode4:Transmit at channel 2422MHz by 802.11n40MHz	

Data: 113

97

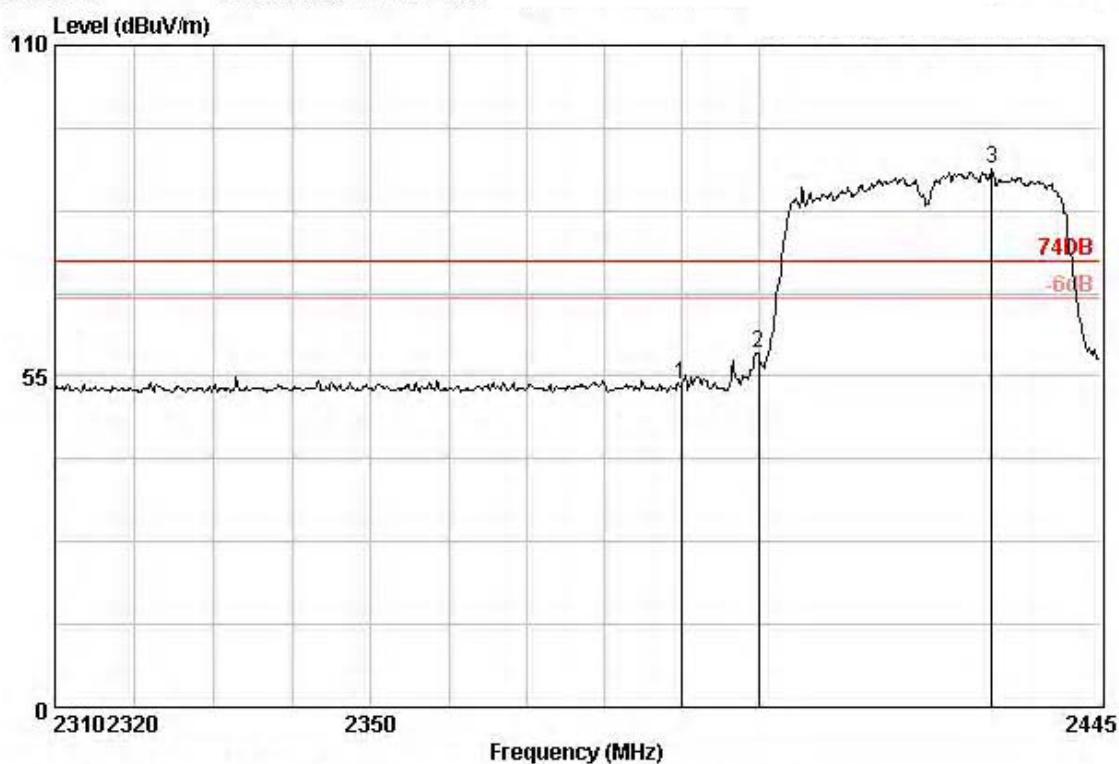


Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 54DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 113
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2390.00	0.00	0.00	37.58	37.58	54.00	16.42	Average
2 2400.00	0.00	0.00	37.82	37.82	54.00	16.18	Average
3 2427.99	0.00	0.00	59.73	59.73	54.00	-5.73	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode4:Transmit at channel 2422MHz by 802.11n40MHz	

Data: 110

Site no.	:	3m Chamber	Data no. :	110
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	74DB		
Env. / Ins.	:	23*C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Ant. Factor	Cable Loss	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	0.00	0.00	53.62	53.62	74.00	20.38 Peak
2	2400.00	0.00	0.00	58.77	58.77	74.00	15.23 Peak
3	2430.69	0.00	0.00	89.47	89.47	74.00	-15.47 Peak

Engineer: Happy	Time: 2014/06/25
Site: AC5	Margin: 0
Limit: FCC_Part15.209_RE(3m)	Polarity: Vertical
Probe: BBHA 9120D_499(1-18GHz)	Power: AC 120V/60Hz
EUT: 7" Android Tablet PC	
Note: Mode4:Transmit at channel 2422MHz by 802.11n40MHz	

Data: 112

97

Level (dBuV/m)

49

49

0 2310 2320

2350

2445

Frequency (MHz)

Site no.	:	3m Chamber	Data no. :	112
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	54DB		
Env. / Ins.	:	23*C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.00	0.00	0.00	38.86	38.86	54.00	15.14	Average
2 2400.00	0.00	0.00	42.26	42.26	54.00	11.74	Average
3 2427.99	0.00	0.00	66.01	66.01	54.00	-12.01	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode4:Transmit at channel 2452MHz by 802.11n40MHz	

Data: 116

110

Level (dBuV/m)

55

2430

2450

2500

Frequency (MHz)

74dB

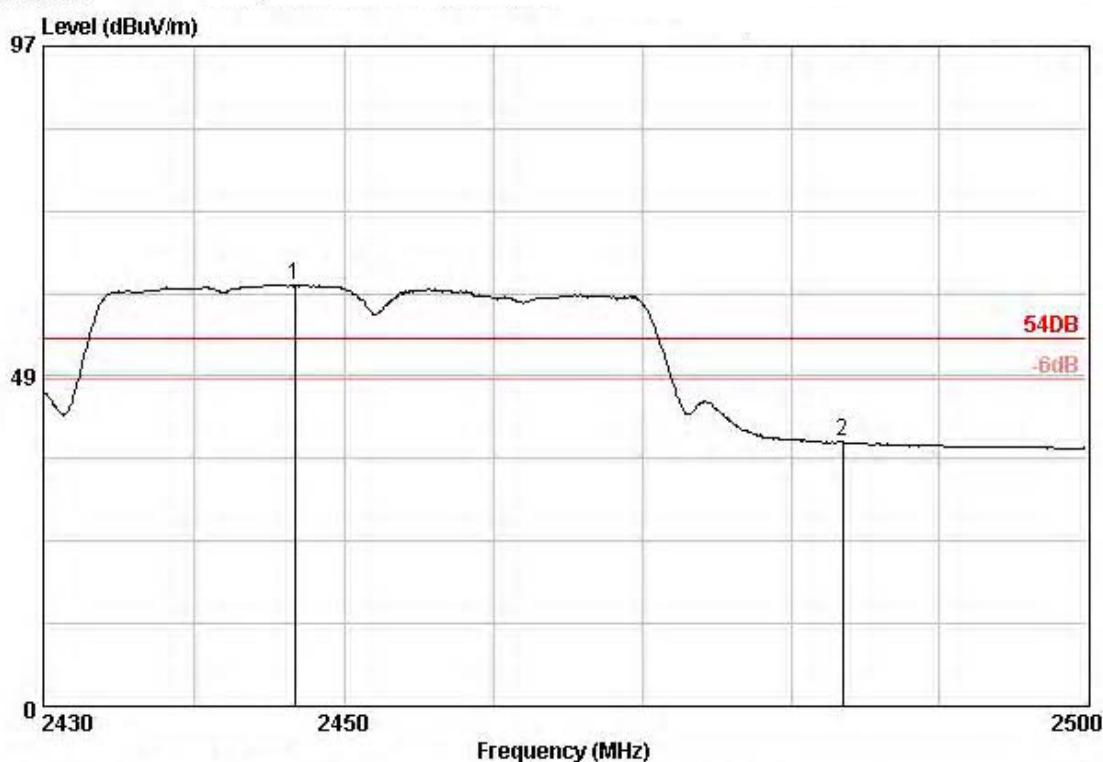
-6dB

Site no.	:	3m Chamber	Data no. :	116
Dis. / Ant.	:	3m	Ant. pol. :	HORIZONTAL
Limit	:	74DB		
Env. / Ins.	:	23*C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
<hr/>							
1	2441.48	0.00	0.00	87.80	87.80	74.00	-13.80 Peak
2	2483.50	0.00	0.00	52.68	52.68	74.00	21.32 Peak

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode4:Transmit at channel 2452MHz by 802.11n40MHz	

Data: 118



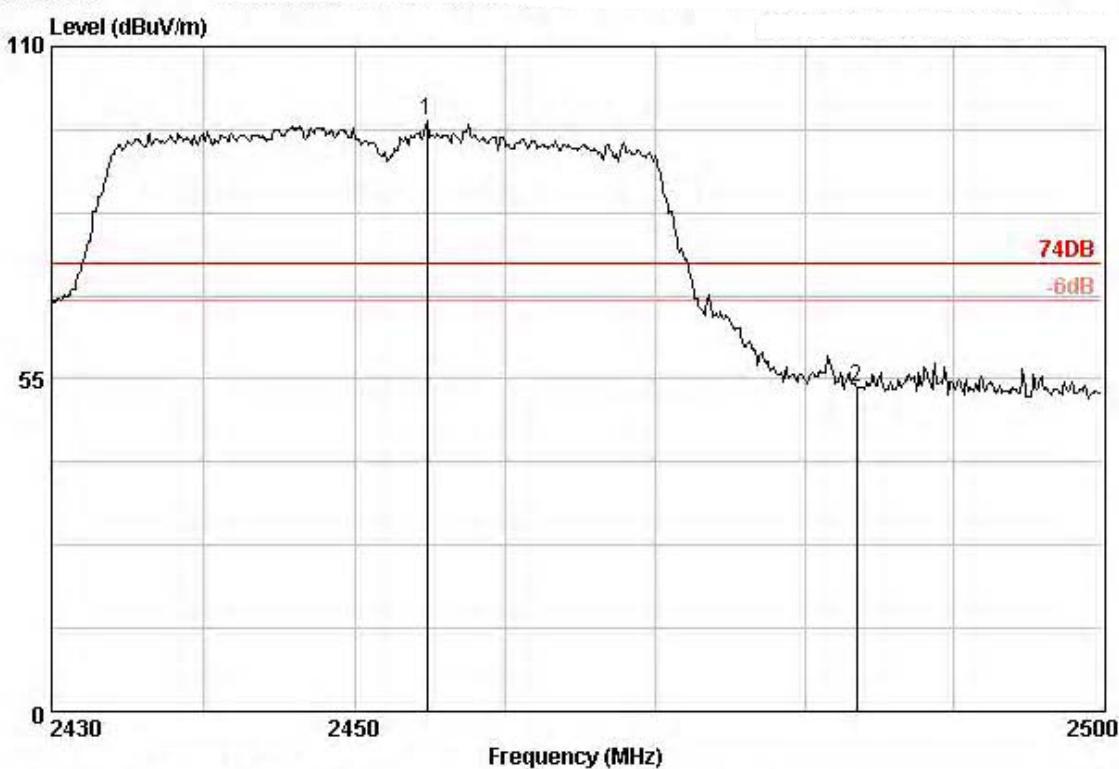
Site no. : 3m Chamber
 Dis. / Ant. : 3m
 Limit : 54DB
 Env. / Ins. : 23*C/54%
 Engineer :
 EUT :
 Power :
 M/N : 95
 Test Mode :

Data no. : 118
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2446.73	0.00	0.00	62.01	62.01	54.00	-8.01	Average
2 2483.50	0.00	0.00	38.84	38.84	54.00	15.16	Average

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode4:Transmit at channel 2452MHz by 802.11n40MHz	

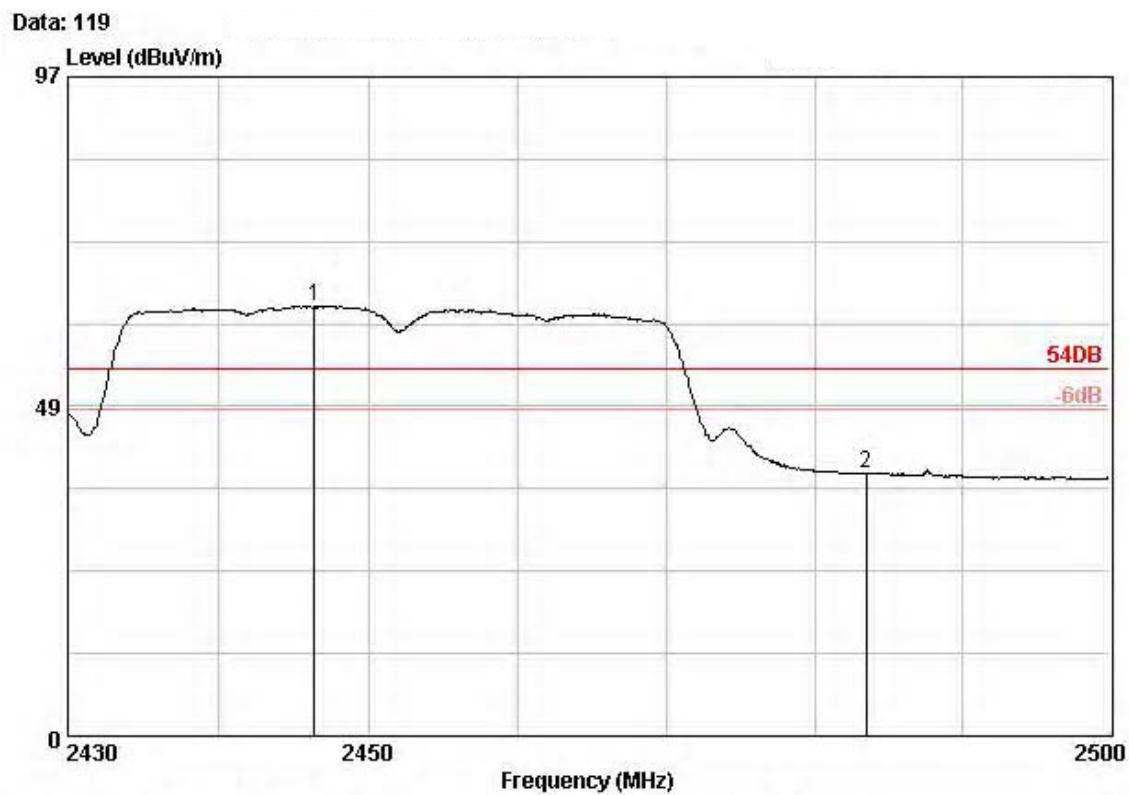
Data: 115



Site no.	: 3m Chamber	Data no. :	115
Dis. / Ant.	: 3m	Ant. pol. :	VERTICAL
Limit	: 74DB		
Env. / Ins.	: 23*C/54%		
Engineer	:		
EUT	:		
Power	:		
M/N	: 95		
Test Mode	:		

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2454.78	0.00	0.00	97.79	97.79	74.00	-23.79	Peak	
2 2483.50	0.00	0.00	53.77	53.77	74.00	20.23	Peak	

Engineer: Happy	
Site: AC5	Time: 2014/06/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: 7" Android Tablet PC	Power: AC 120V/60Hz
Note: Mode4:Transmit at channel 2452MHz by 802.11n40MHz	



Site no.	:	3m Chamber	Data no. :	119
Dis. / Ant.	:	3m	Ant. pol. :	VERTICAL
Limit	:	54DB		
Env. / Ins.	:	23*C/54%		
Engineer	:			
EUT	:			
Power	:			
M/N	:	95		
Test Mode	:			

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2446.38	0.00	0.00	63.28	63.28	54.00	-9.28	Average
2	2483.50	0.00	0.00	38.74	38.74	54.00	15.26	Average