

HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.



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CERTIFICATE OF COMPLIANCE

FCC PART 15.247 Certification

Applicant Name: Mobile Compia Co., Ltd.

Date of Testing: June 18, 2007

Test Site/Location:

DongWon B/D, 725-30, Yeoksam-dong, Gangnam-gu, Seoul, 135-080 Korea

HCT, San 136-1 Ami-ri, Bubal-eup, Icheon-si, Kyungki-do, Korea

Test Report No.: HCT-R07-019

FCC ID: U7XMC-6500S

APPLICANT: Mobile Compia Co., Ltd.

EUT Type: Portable Data Collection Terminal with WLAN
Frequency range: 2412 - 2462 MHz (DSSS/OFDM)
Max. RF Output Power: (15dBm)Peak Conducted (802.11b)
(11dBm)Peak Conducted (802.11g)
Trade Name/Model(s): Mobile Compia Co., Ltd. / MC-6500S
FCC Classification: Digital Transmission System (DTS)
Application Type: Certification
FCC Rule Part(s): Part 15 subpart C 15.247
Antenna Specifications: Manufacturer: AUTO ELECTRONIC CORP
PART NUMBER: AEC_MCB_001 / Chip Antenna

Engineering Statement:

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT Co., Ltd. certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti- Drug Abuse Act of 1998, 21 U.S. C. 853(a)


Report prepared by

: Chang Seok Choi

Test engineer of RF Part


Approved by

: Sang Jun Lee

Manager of RF Part

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R07-019	Test Dates: June 18, 2007	EUT Type: Tri-band GSM Phone with WLAN	FCC ID: U7XMC-6500S	Page 1 of 42

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1. GENERAL INFORMATION

Company Name: Mobile Compia Co., Ltd
Address: DongWon B/D, 725-30, Yeoksam-dong, Gangnam-gu, Seoul,
 135-080 Korea

— **FCC ID:** U7XMC-6500S
 . **EUT Type:** Portable Data Collection Terminal with Bluetooth
 . **Trade Name:** Mobile Compia Co., Ltd.
 . **Model(s):** MC-6500S
 . **Frequency range:** 2412 – 2462 MHz (DSSS/OFDM)
 . **Application Type:** Certification
 . **FCC Classification:** Digital Transmission System (DTS)
 . **FCC Rule Part(s):** Part 15 subpart C 15.247
 . **Modulation(s):** DSSS/OFDM
 . **Date(s) of Tests:** June 18, 2007
 . **Report Serial No.:** HCT-R07-017

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4. (Version :2003) Radiated testing was performed at an antenna to EUT distance 3 meters.

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

2.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test mode used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

3. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

4. FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 6, 2006(Registration Number: 90661)

4.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5. SETUP OF EQUIPMENT UNDER TEST

5.1 SETUP CONFIGURATION OF EUT

See test photographs for the actual connections between EUT and support equipment.

6. TEST RESULT

6.1 SUMMARY

Company Name: Mobile Compia Co., Ltd.

FCC ID: U7XMC-6500S

Method/System: Digital Transmission System (DTS)

Number of Channels: 11

Table 1. Summary of Test Results

FCC Part Section(s)	RSS 210 Section	Test Description	Test Limit	Test Condition
TRANSMITTER MODE (TX)				
15.247(a)(2)	5.9.1	6dB Bandwidth	> 500kHz	CONDUCTED
15.247(b)	6.22(o)(a3)	Transmitter Output Power	< 1 Watt	
15.247(d)	6.2.2(o)(b)	Transmitter Power Spectral Density	< 8dBm / 3kHz	
15.247(c)	5.9.1 6.2.2(o) (e1)	Occupied Band Width Out- of-Band Emissions (Band Width at 20dB below)	Radiated <20dBc. Emissions in restricted bands must meet the radiated limits detailed in 15.209	
15.205 15.209	6.2.1 6.3	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	< FCC 15.209 limits or < RSS-210 table 3 limits Emissions in restricted bands must meet the radiated limits detailed in 15.209	RADIATED (30MHz-1GHz) (1-25 GHz)
15.207	6.6	AC Conducted Emissions 150kHz – 30MHz	EN55022	Line Conducted
RECEIVER MODE (RX)				
15.207	7.4	AC Conducted Emissions 150kHz – 30MHz	EN55022	Line Conducted
15.209	7.3	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.209 limits or < RSS-210 table 3 limits	RADIATED (30MHz-1GHz) (1-25 GHz)

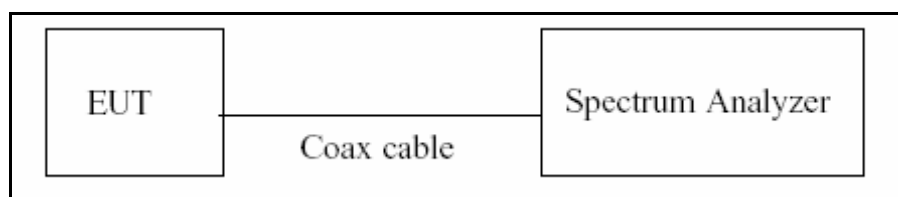
6.2 6dB Bandwidth Measurement (802.11b/g)

§15.247(a)(2)

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6dB bandwidth is 500 kHz.

■ TEST CONFIGURATION



■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

RBW: 100 KHz

VBW: 100 KHz

SPAN: 40 MHz

■ TEST RESULTS

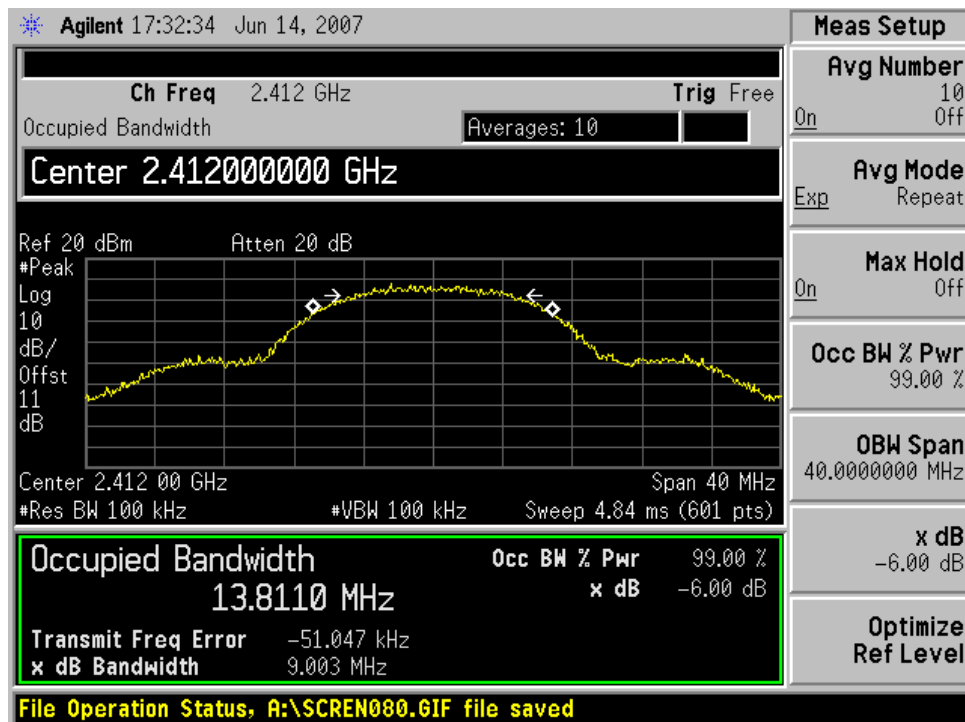
Table 2. Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	13.8110	0.500	Pass
2437	6	13.8123	0.500	Pass
2462	11	13.8041	0.500	Pass

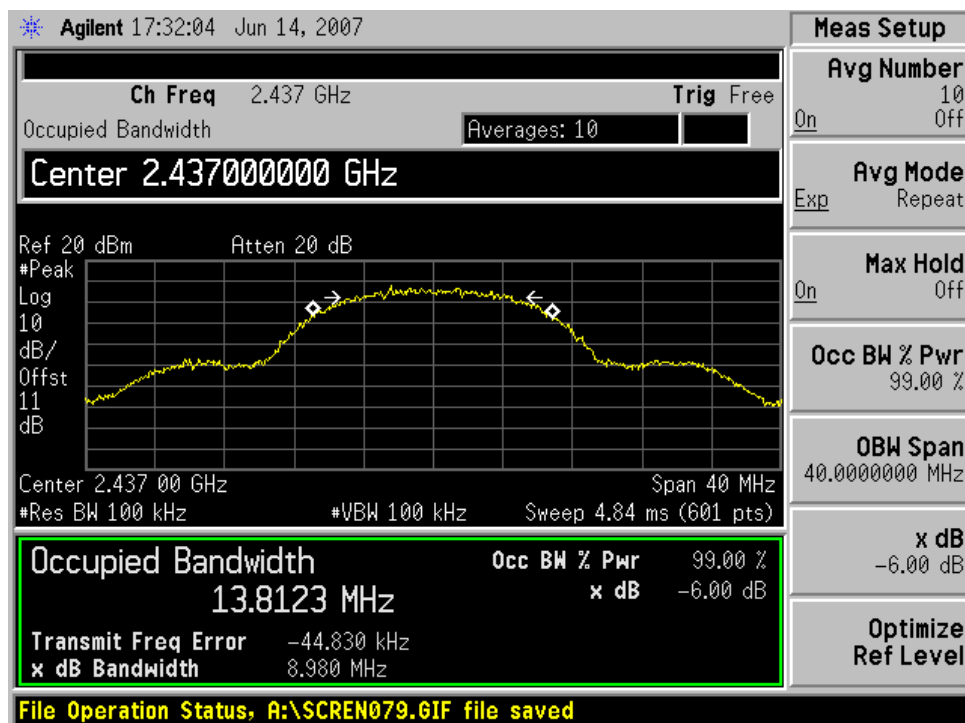
Table 3. Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	16.5182	0.500	Pass
2437	6	16.5063	0.500	Pass
2462	11	16.5162	0.500	Pass

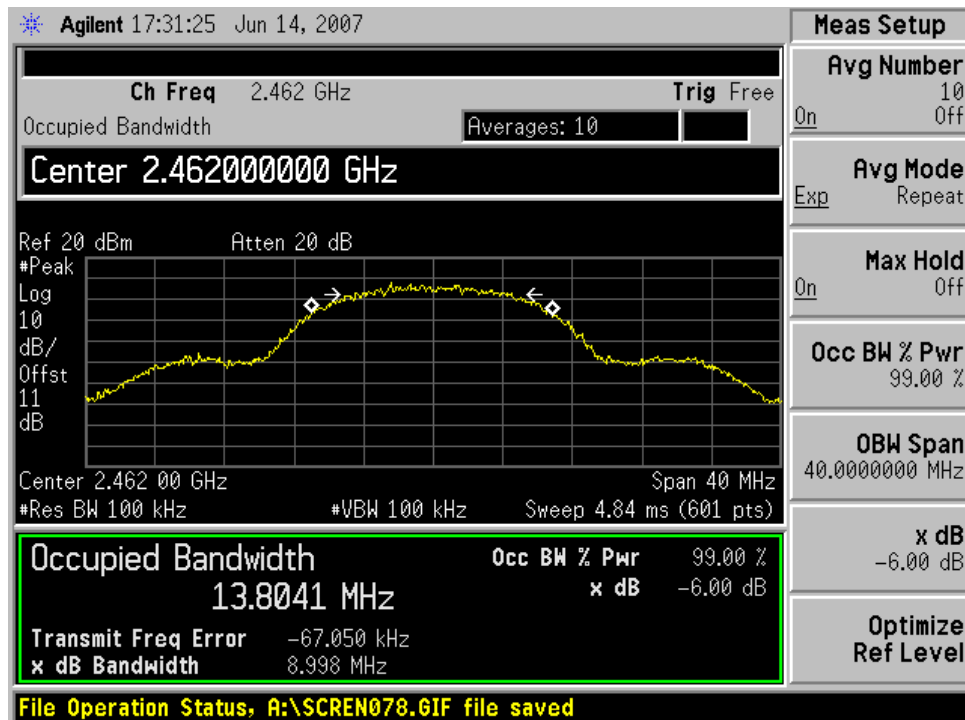
RESULT PLOTS



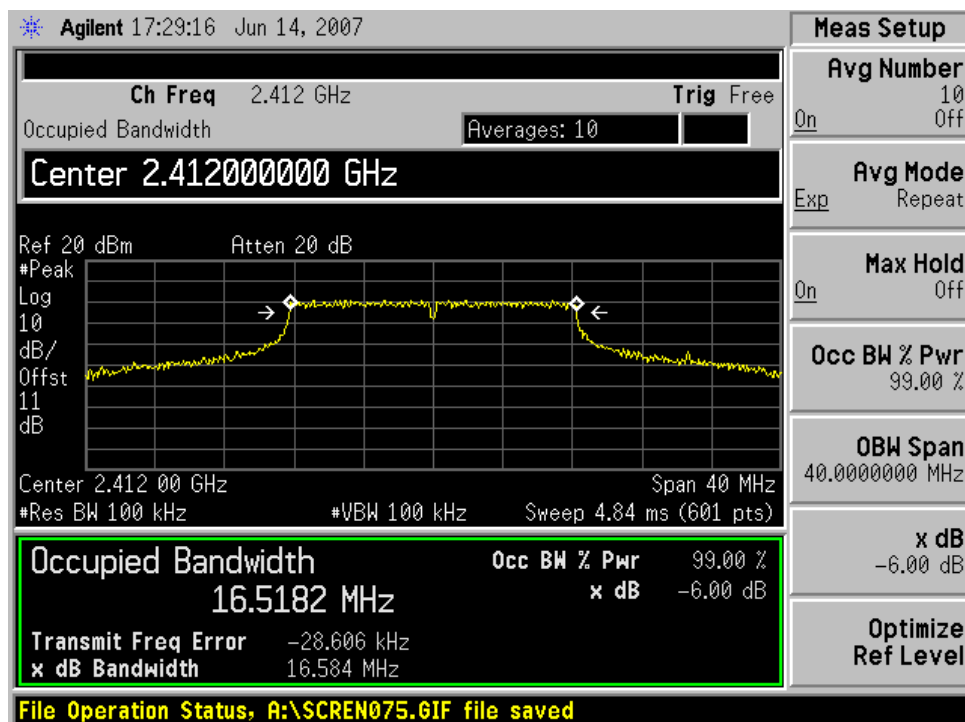
6dB Bandwidth plot (802.11b-CH 1)



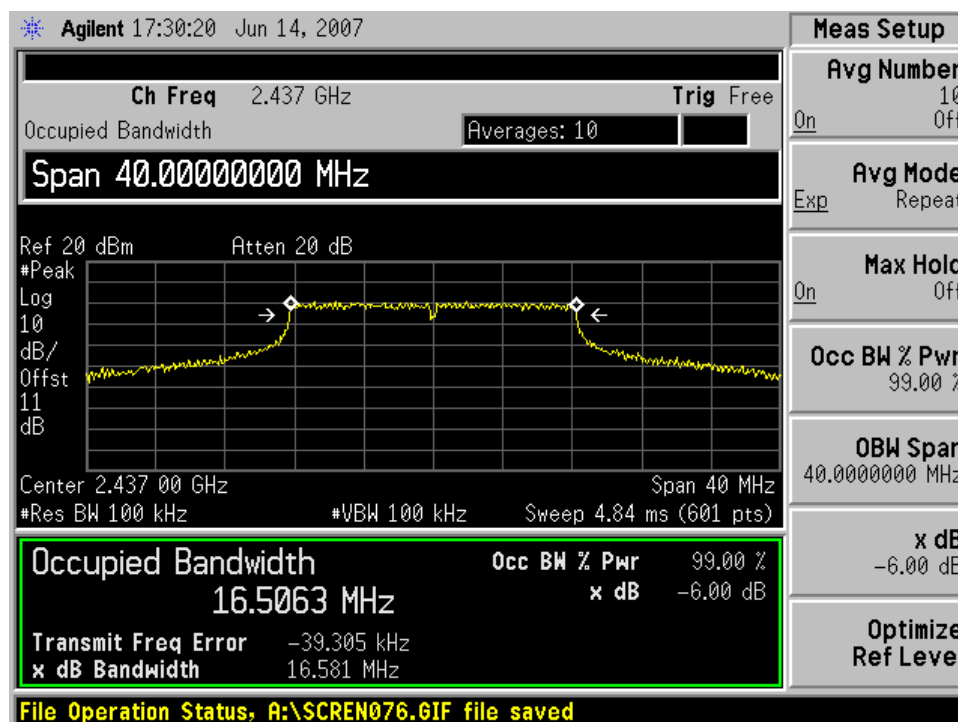
6dB Bandwidth plot (802.11b-CH 6)



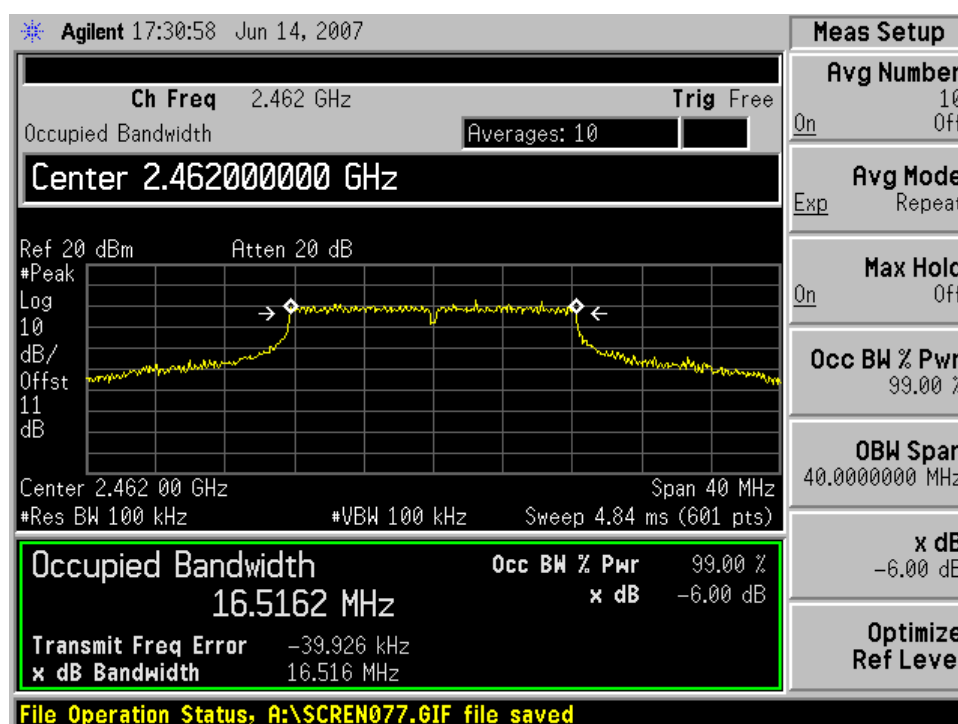
6dB Bandwidth plot (802.11b-CH 11)



6dB Bandwidth plot (802.11g-CH 1)



6dB Bandwidth plot (802.11g-CH 6)



6dB Bandwidth plot (802.11g-CH 11)

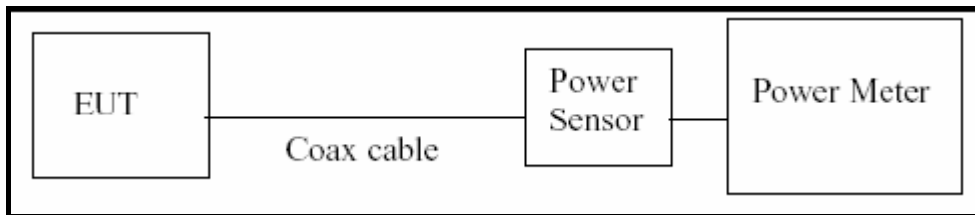
6.3 Output Power Measurement (802.11b/g)

§15.247(b)

A transmitter antenna terminal of EUT is connected to the input of a RF power sensor. Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

■ TEST CONFIGURATION



■ TEST RESULTS

Table 4. Conducted Output Power Measurements

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	10.72	30
		5.5 Mbps	13.49	30
		11 Mbps	15.32	30
2437	6	1 Mbps	10.78	30
		5.5 Mbps	13.48	30
		11 Mbps	15.17	30
2462	11	1 Mbps	10.61	30
		5.5 Mbps	13.22	30
		11 Mbps	14.84	30

Table 5. Conducted Output Power Measurements

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	10.91	30
		9 Mbps	11.16	30
		12 Mbps	11.29	30
		18 Mbps	11.18	30
		24 Mbps	11.25	30
		36 Mbps	11.23	30
		48 Mbps	11.25	30
		54 Mbps	11.08	30
2437	6	6 Mbps	10.88	30
		9 Mbps	10.85	30
		12 Mbps	10.73	30
		18 Mbps	10.89	30
		24 Mbps	11.05	30
		36 Mbps	11.16	30
		48 Mbps	10.99	30
		54 Mbps	11.24	30
2462	11	6 Mbps	10.75	30
		9 Mbps	10.68	30
		12 Mbps	10.98	30
		18 Mbps	10.78	30
		24 Mbps	10.53	30
		36 Mbps	11.11	30
		48 Mbps	11.24	30
		54 Mbps	10.96	30

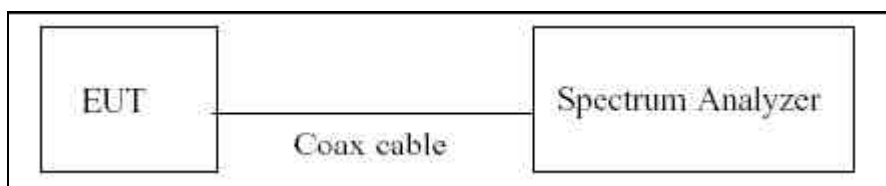
6.4 Power Spectral Density (802.11b/g)

§15.247(d)

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – The transmitter power density average over 1-second interval shall not be greater than 8dBm in any 3kHz BW.

■ TEST CONFIGURATION



■ TEST PROCEDURE

The spectrum analyzer is set to :

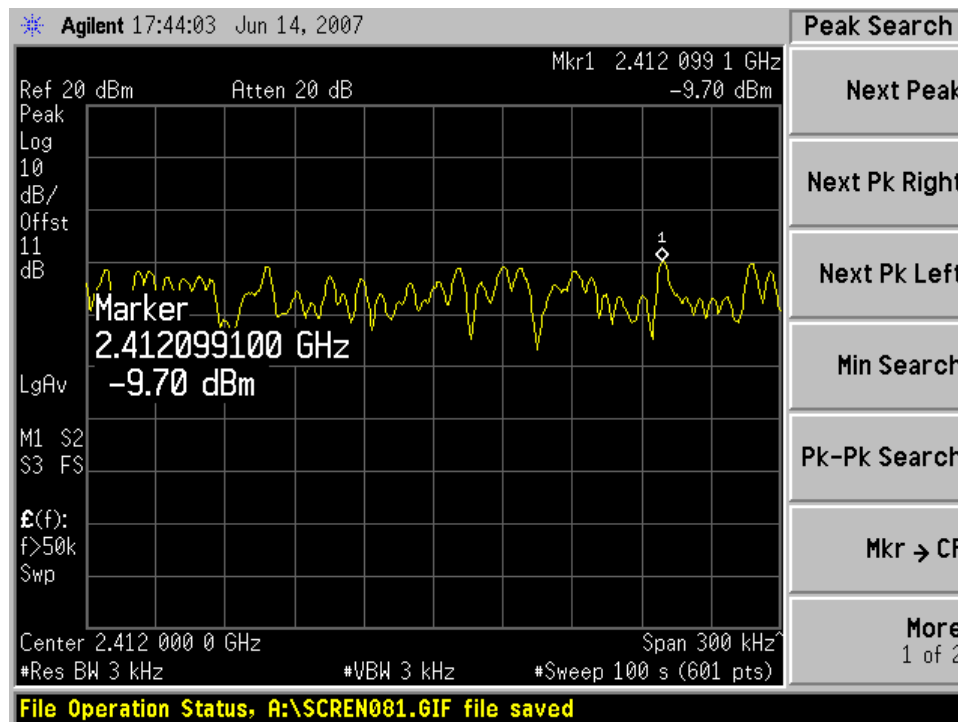
1. Span = 300 KHz
2. RBW = 3 KHz (7dB/div)
3. VBW = 3 KHz
4. Sweep = 100 sec

■ TEST RESULTS

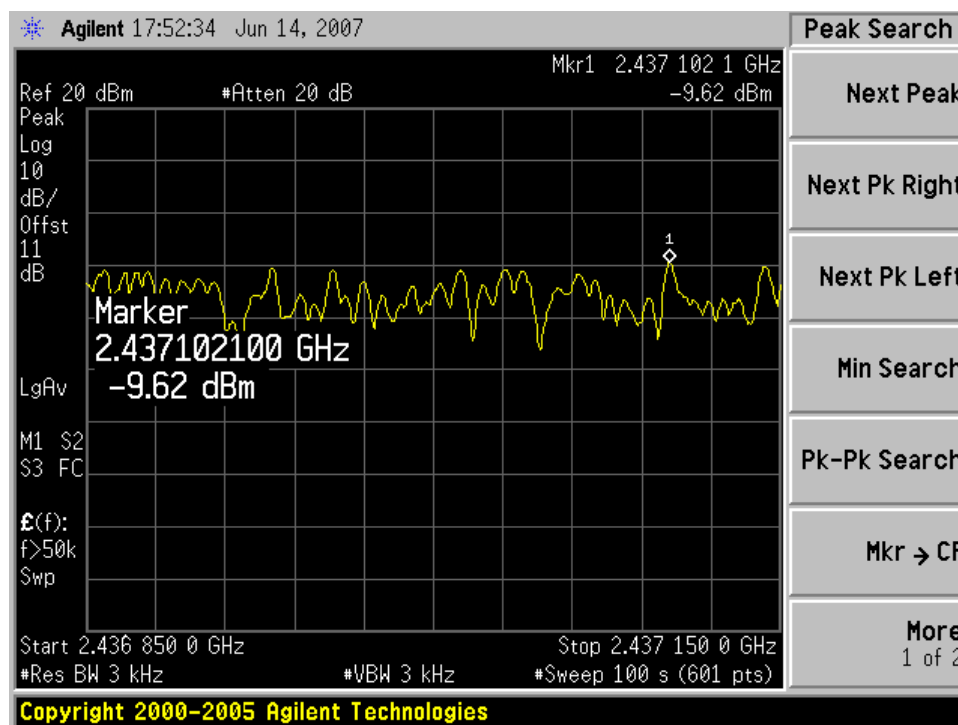
Table 6. Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result	
			Power Density (dBm)	Pass/Fail
2412	1	802.11b	-9.70	Pass
2437	6		-9.62	Pass
2462	11		-9.95	Pass
2412	1	802.11g	-14.82	Pass
2437	6		-15.58	Pass
2462	11		-15.31	Pass

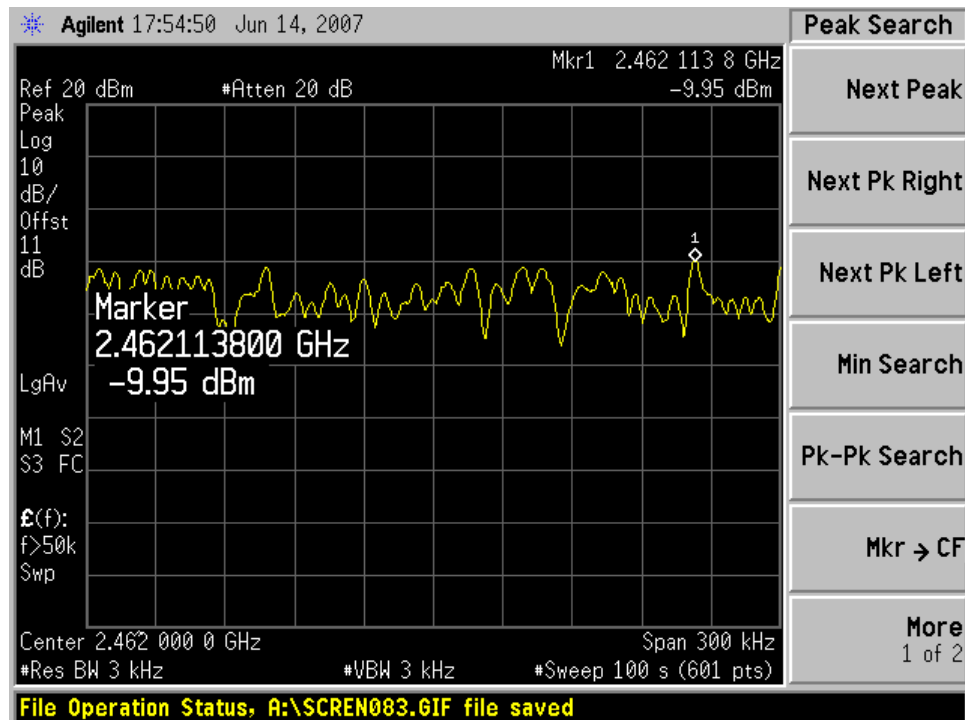
RESULT PLOTS



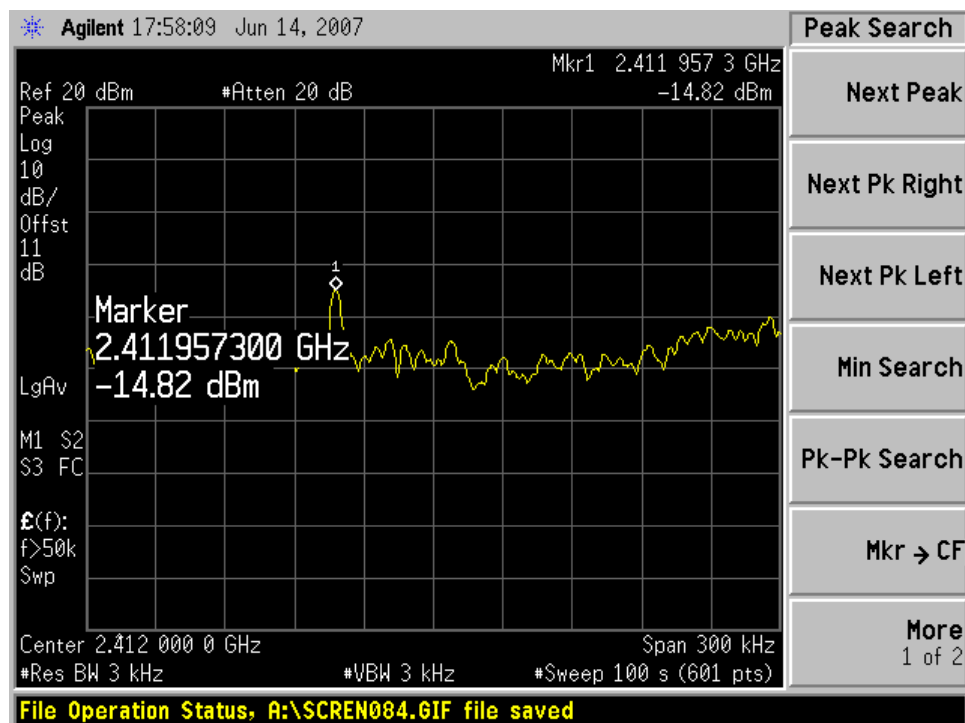
Power Spectral Density (802.11b-CH 1)



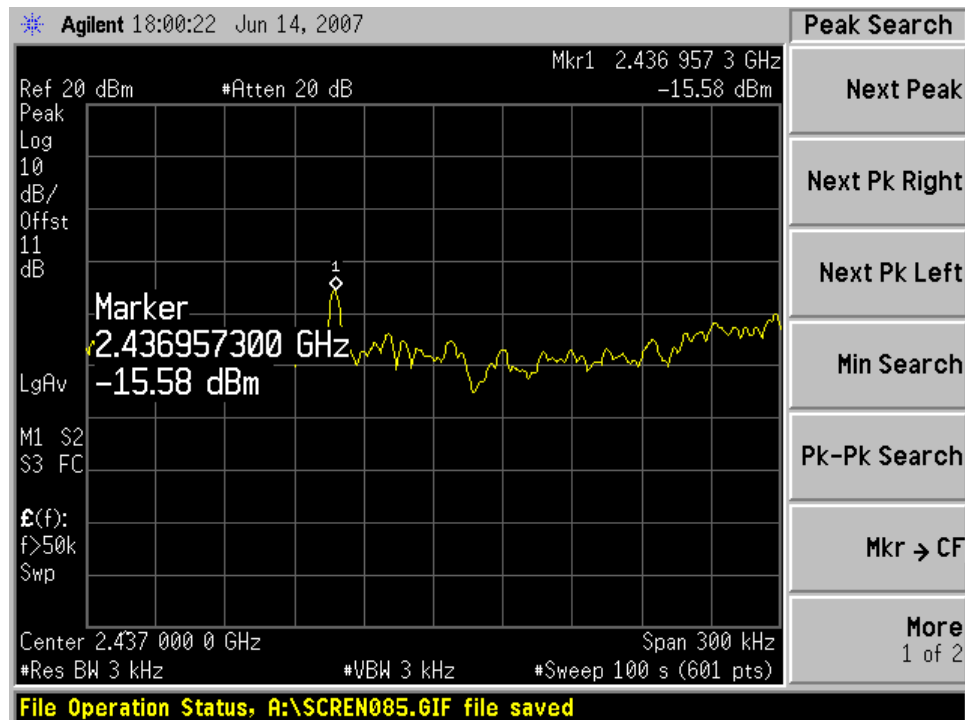
Power Spectral Density (802.11b-CH 6)



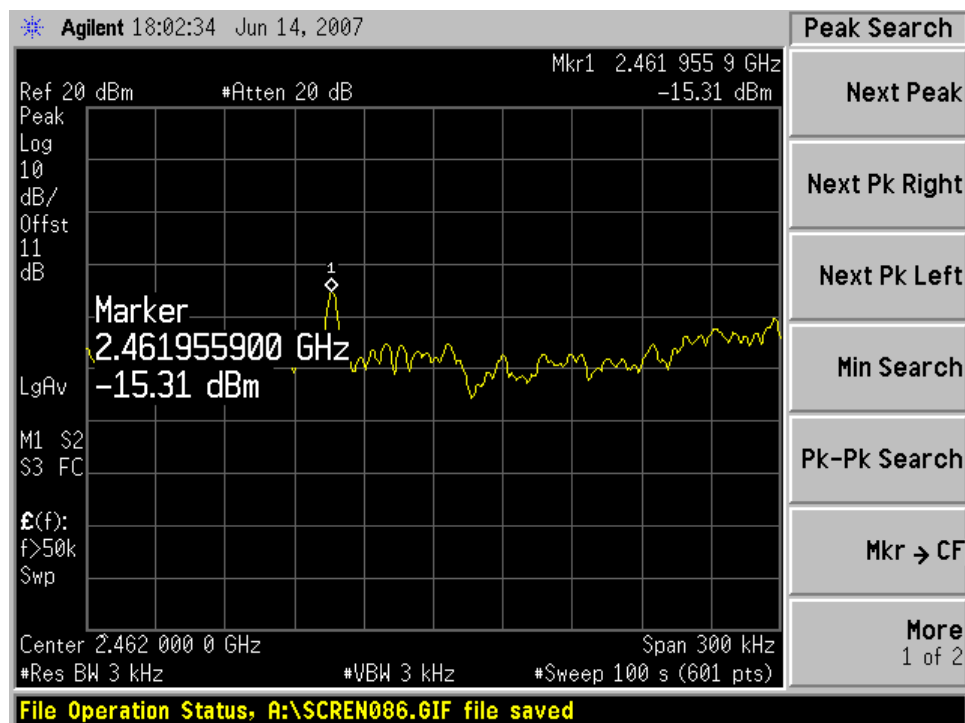
Power Spectral Density (802.11b-CH 11)



Power Spectral Density (802.11g-CH 1)



Power Spectral Density (802.11g-CH 6)



Power Spectral Density (802.11g-CH11)

6.5 Out of Band Emissions at the Band Edge/ Conducted Spurious Emissions

LIMIT

§15.247 (c) 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 20dB 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

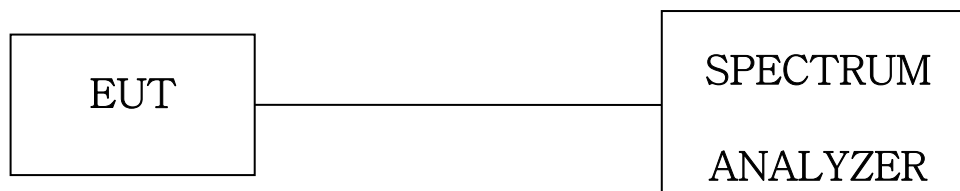
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz.

The video bandwidth is set to 100 kHz.

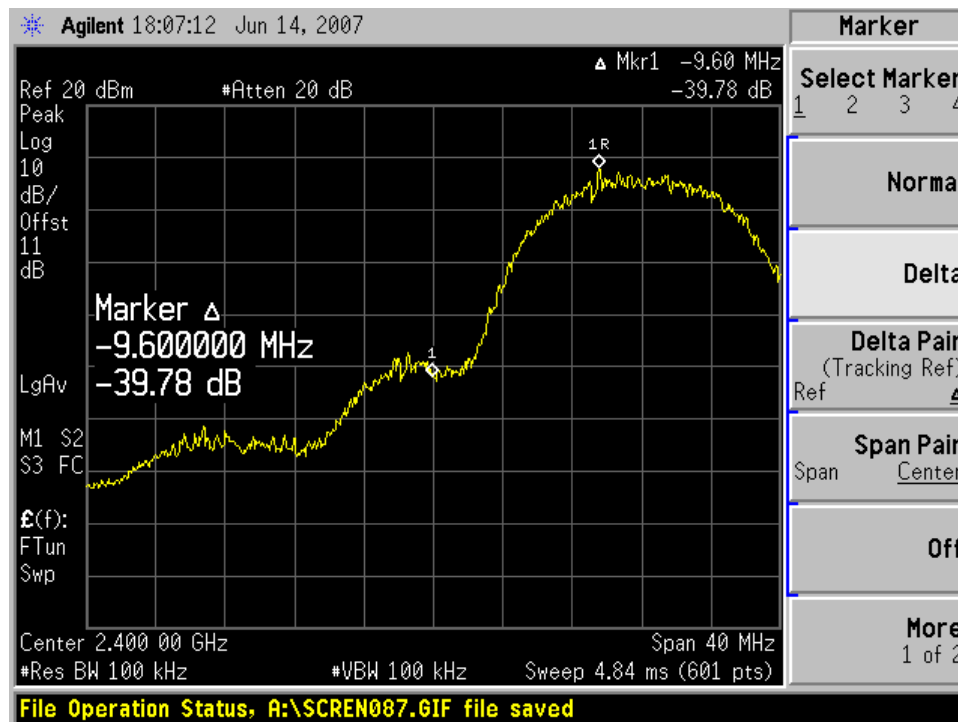
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

TEST SETUP

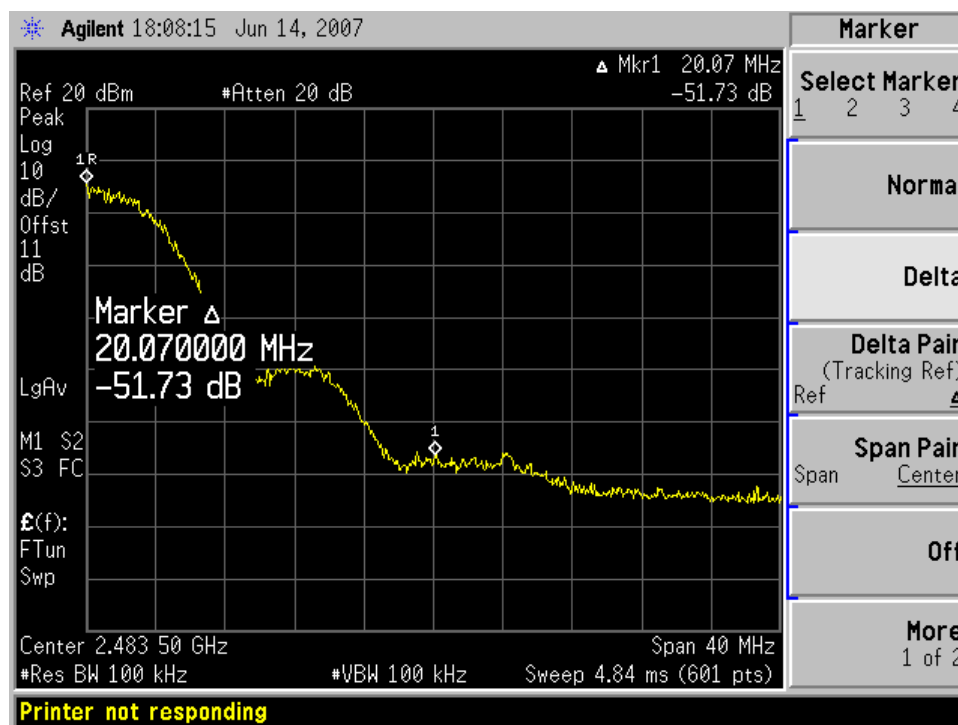


RESULTS

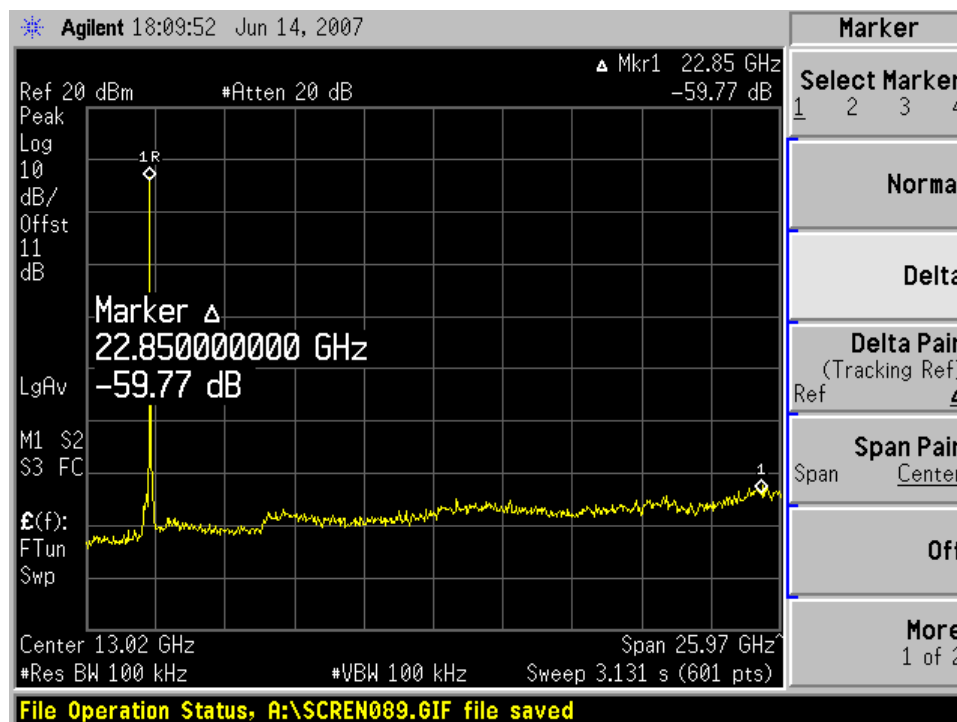
RESULT PLOTS



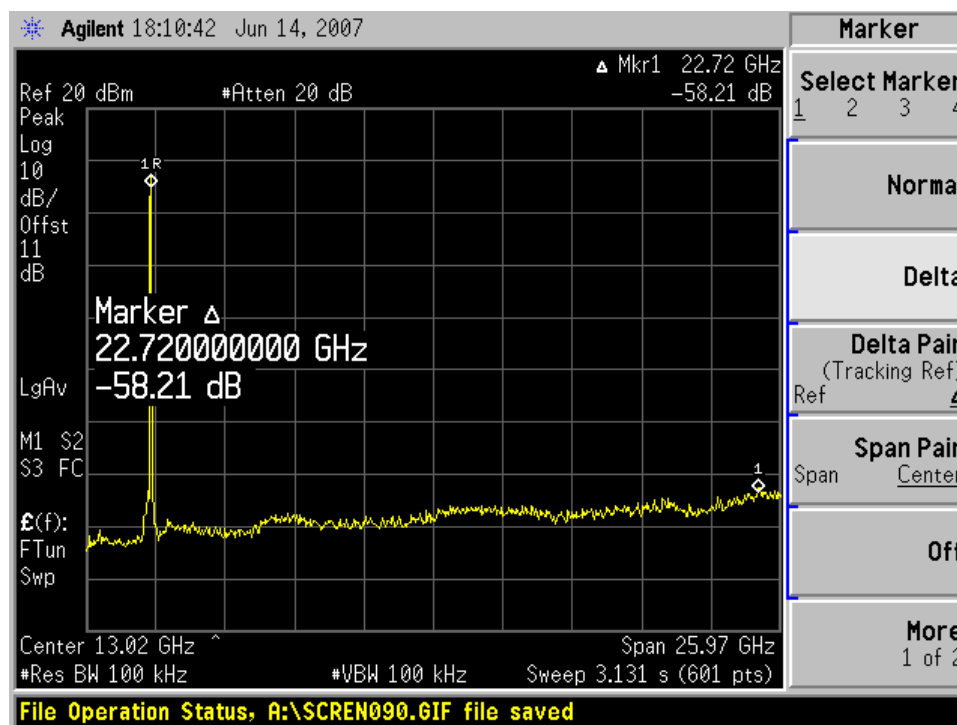
BandEdge (802.11b-CH1)



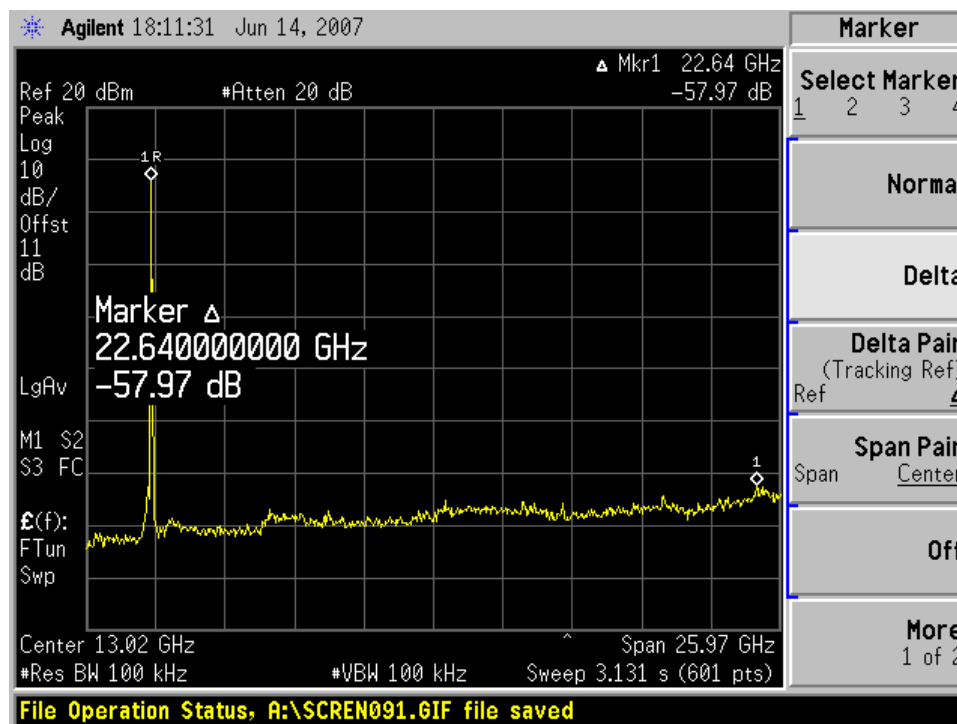
BandEdge (802.11b-CH11)



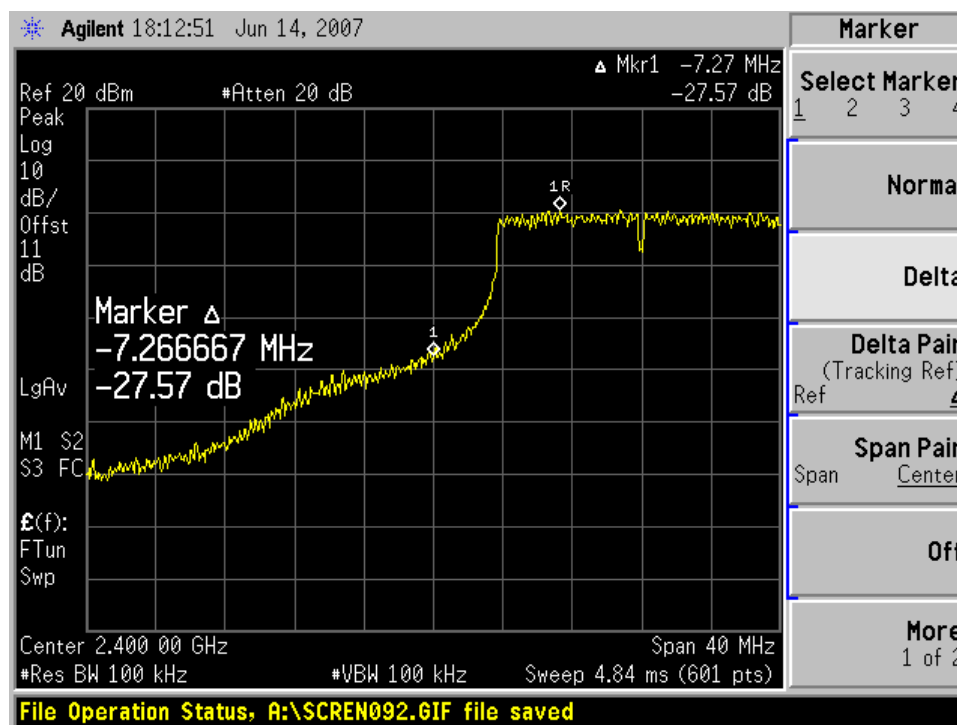
Conducted Spurious Emission (802.11b-CH1)



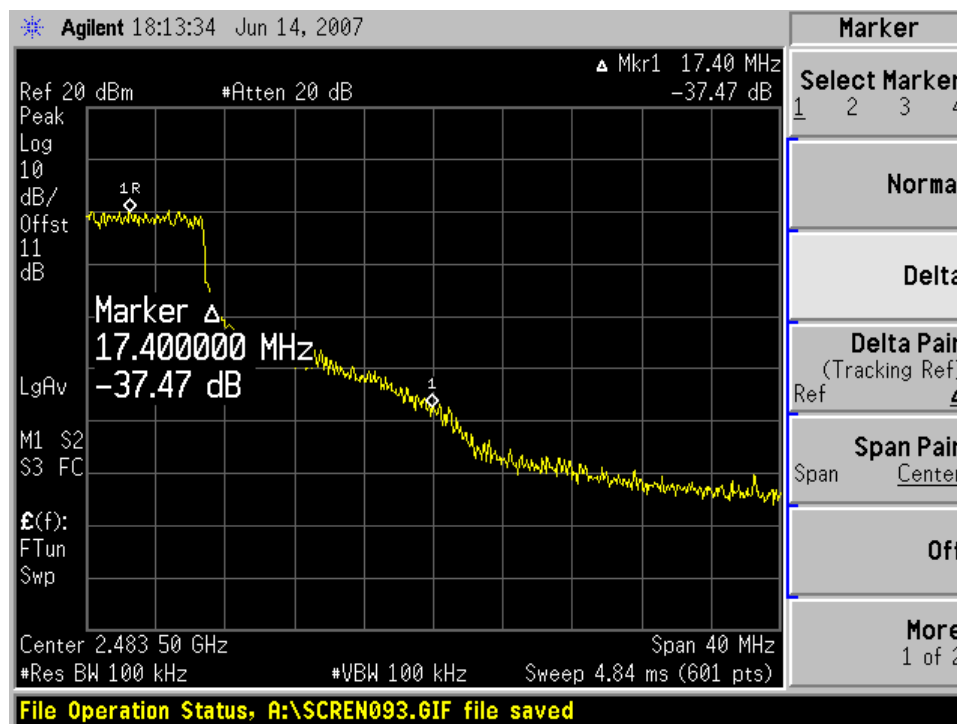
Conducted Spurious Emission (802.11b-CH6)



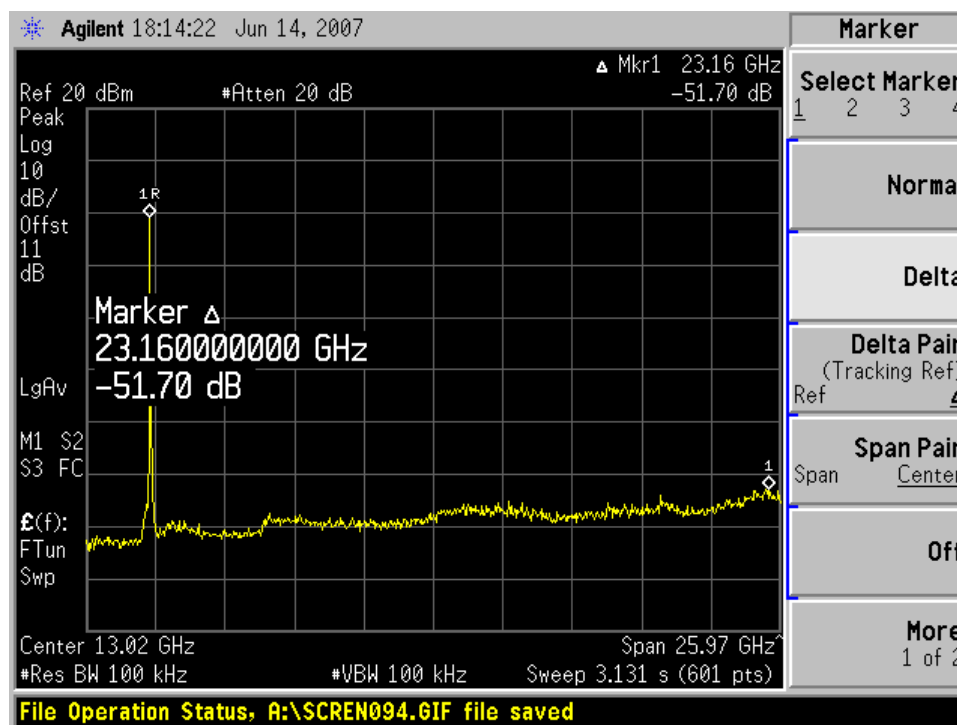
Conducted Spurious Emission (802.11b-CH11)



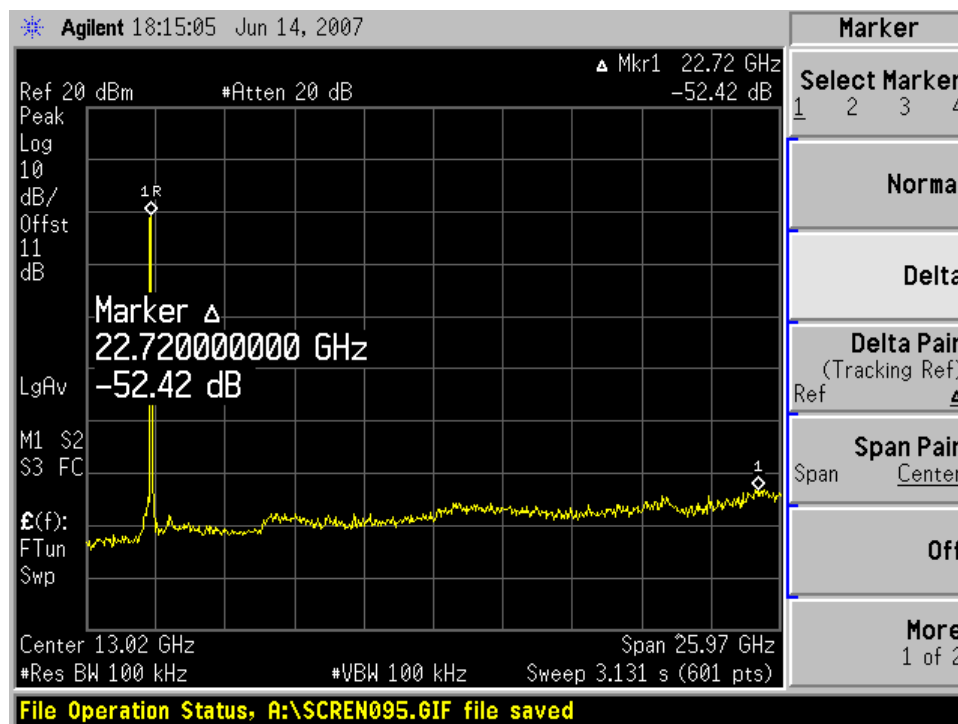
BandEdge (802.11g-CH1)



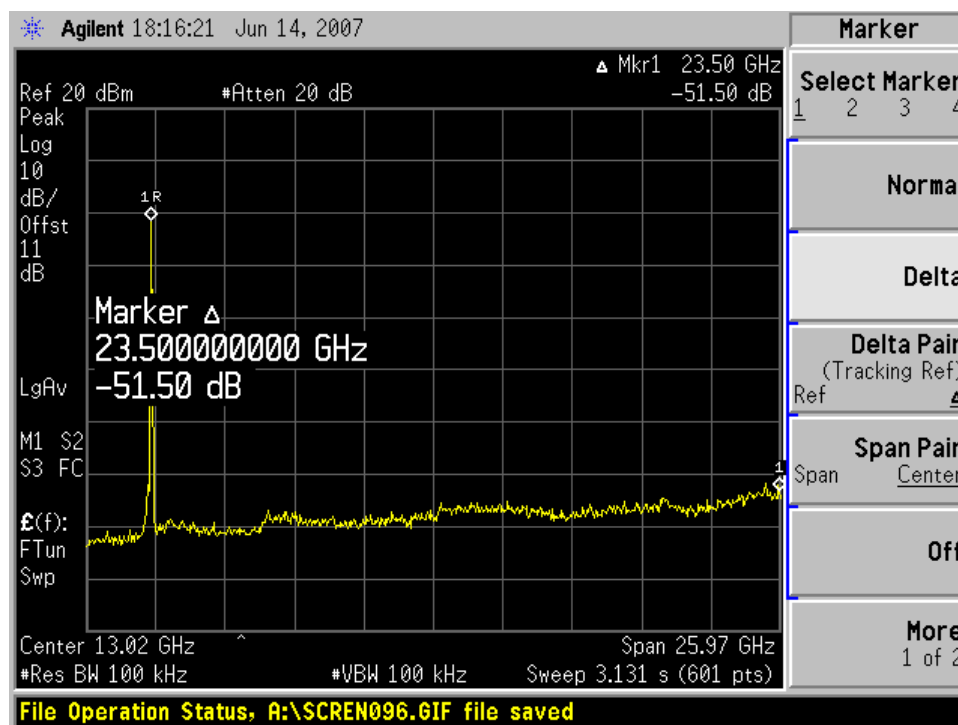
BandEdge (802.11g-CH11)



Conducted Spurious Emission (802.11g-CH1)



Conducted Spurious Emission (802.11g-CH6)



Conducted Spurious Emission (802.11g-CH11)

6.6 Radiated Measurement.

6.6.1 Radiated Spurious Emissions.

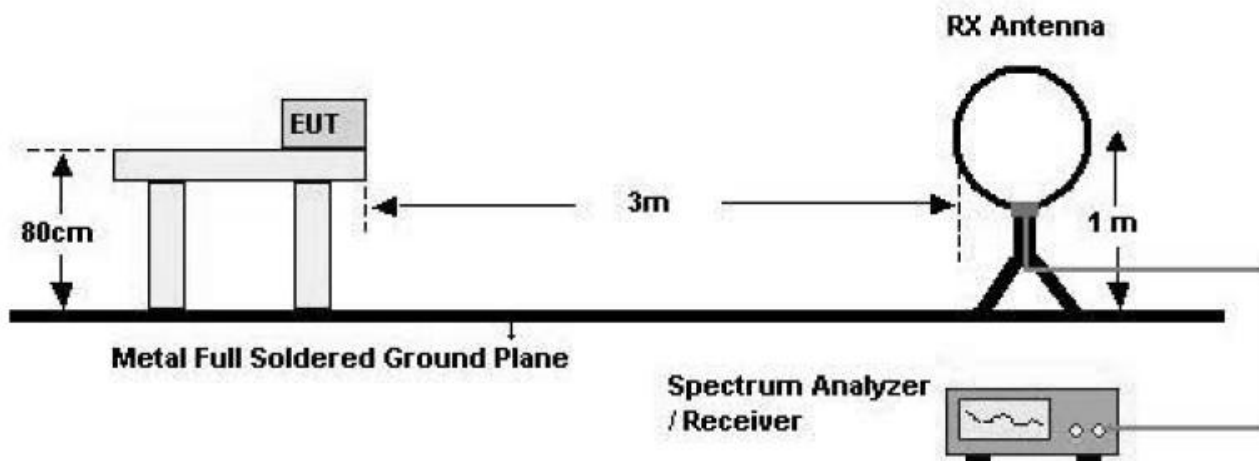
LIMIT

1. 20dBc in any 100kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed

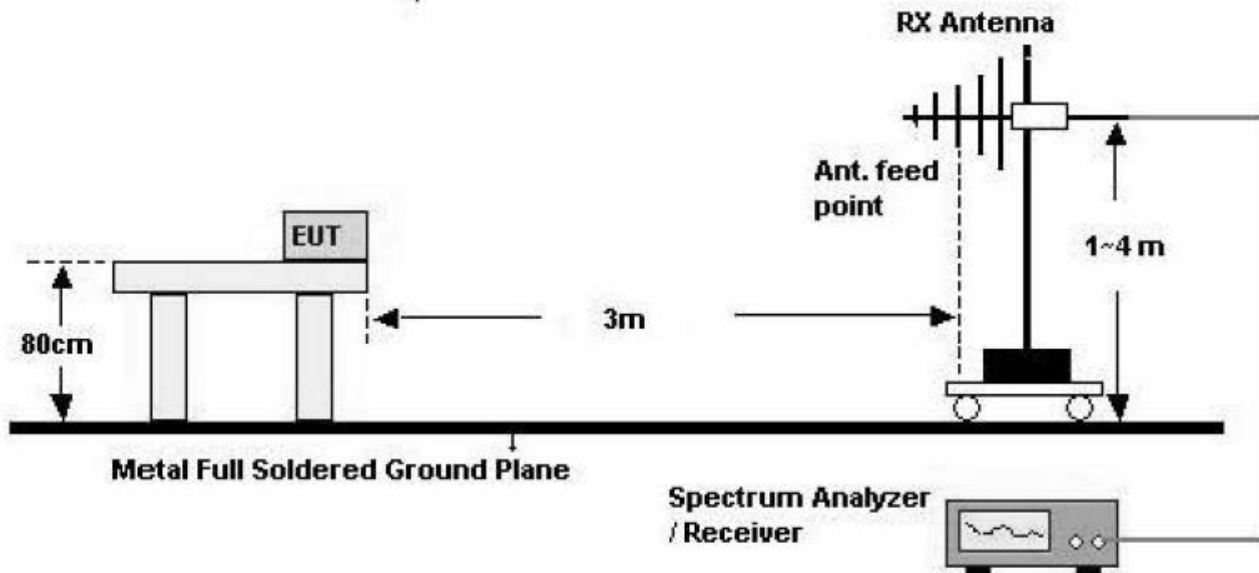
Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

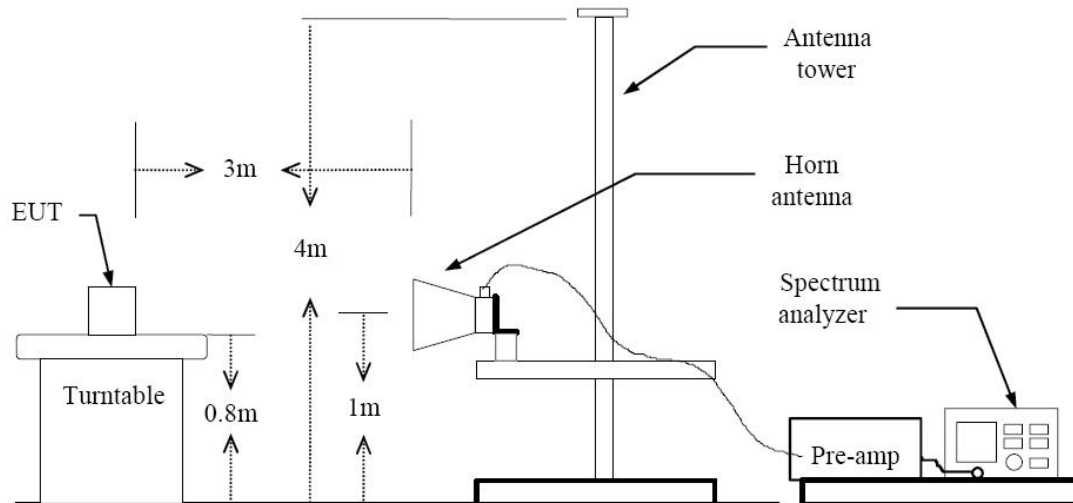
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

Note: Test was performed in the worst case.(802.11b)

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Link

Notes:

1. *Measuring frequencies from 9 kHz to the 30MHz.*
2. *The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.*
3. *Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)*
4. *Limit line = specific Limits (dBuV) + Distance extrapolation factor*

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Field Strength dBuV/m	Limit dBuV/m	Margin dB
39	12.83	12.55	1.44	H	25.56	40	14.44
113	15.05	10.36	2.53	H	27.94	43.5	15.56
148	12.66	12.93	2.88	H	28.47	43.5	15.03

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Quasi peak detector mode.

Above 1 GHz

Operation Mode: 802.11b (CH.1)

Frequency [MHz]	Level [dBuV]	AF. CL. [dB]	ANT. POL [H/V]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	-127.41	35.92	H	56.33	74	17.67	PK
4824	-117.03	35.92	H	45.95	54	8.05	AV
9648	-113.58	44.2	H	50.78	74	23.22	PK
9648	-105.16	44.2	H	42.36	54	11.64	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

Operation Mode: 802.11b (CH 6)

Frequency [MHz]	Level [dBuV]	AF. CL. [dB]	ANT. POL [H/V]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	-126.92	36.06	H	55.98	74	18.02	PK
4874	-115.27	36.06	H	44.33	54	9.67	AV
9748	-113.31	44.44	V	50.75	74	23.25	PK
9748	-104.63	44.44	V	42.07	54	11.93	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4.
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

Operation Mode: 802.11b (CH 11)

Frequency [MHz]	Level [dBuV]	AF. CL. [dB]	ANT. POL [H/V]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	-127.62	36.19	H	56.81	74	17.19	PK
4924	-116.33	36.19	H	45.52	54	8.48	AV
9848	-113.34	44.7	V	51.04	74	22.96	PK
9848	-104.08	44.7	V	41.78	54	12.22	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MH.
 - b. AV Setting 1 GH z- 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

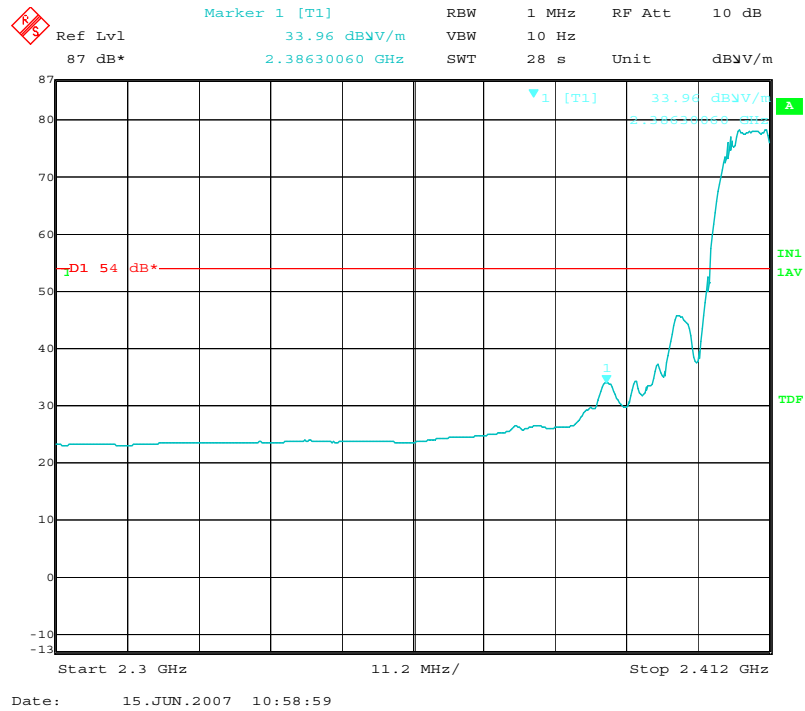
6.6.2 Radiated Restricted Band Measurements

RESULT PLOTS

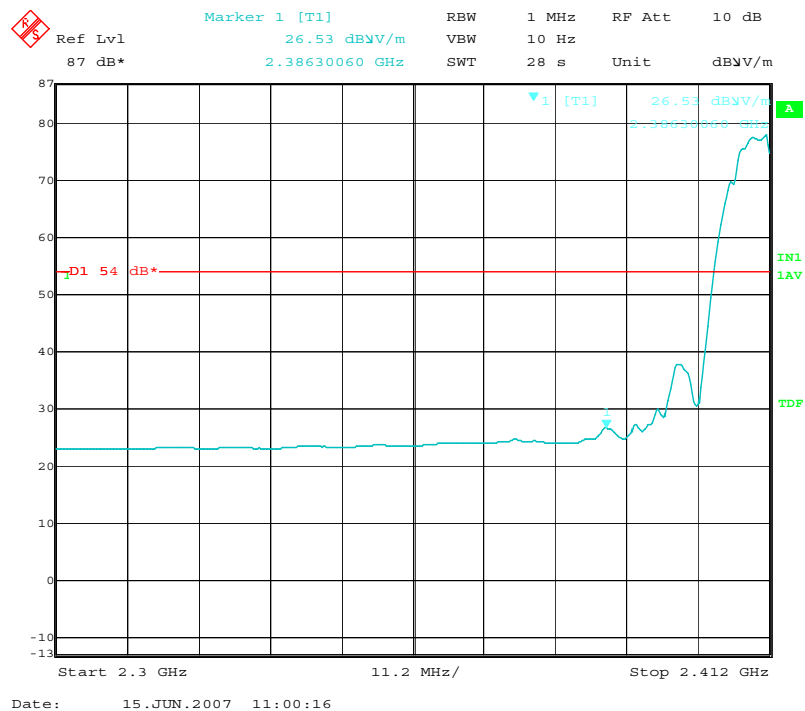
Ch.1 (802.11b) 11Mbps

Detector Mode: Average

Polarity: Horizontal

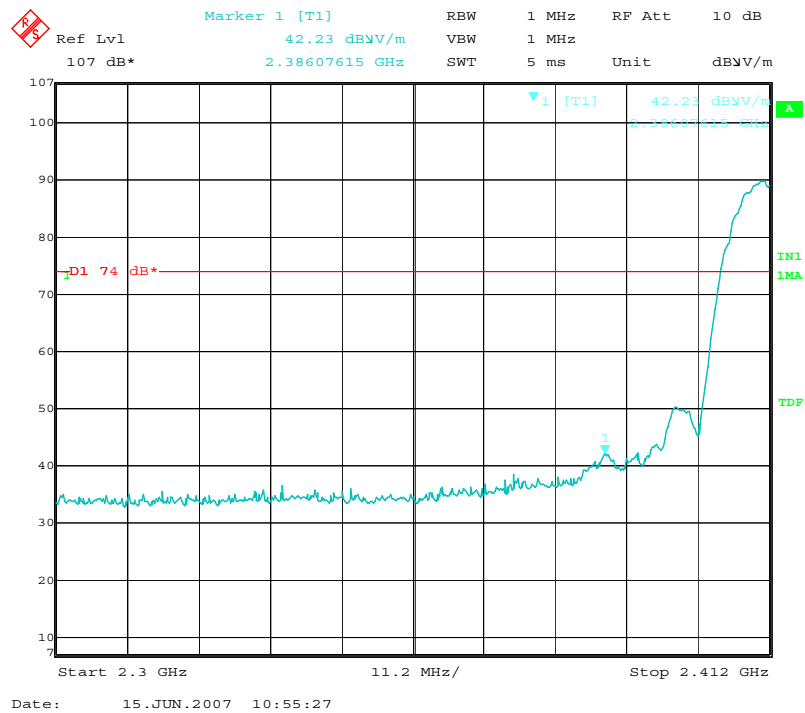


Polarity: Vertical

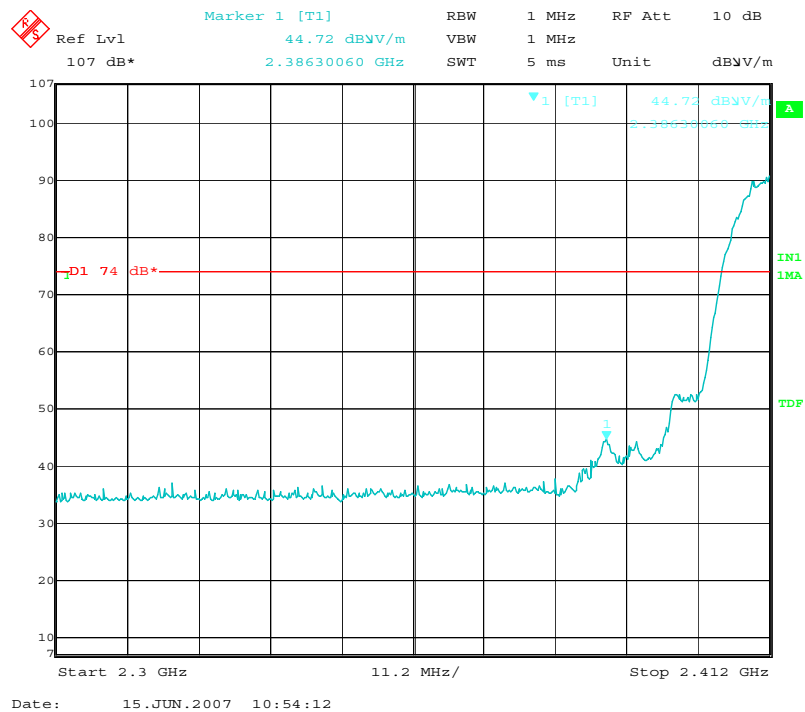


Detector Mode: Peak

Polarity: Horizontal



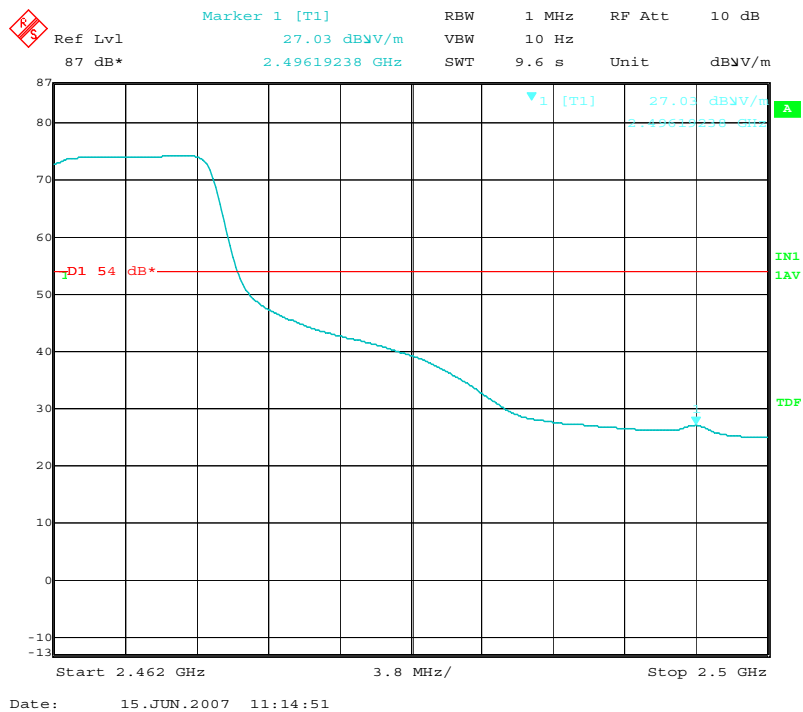
Polarity: Vertical



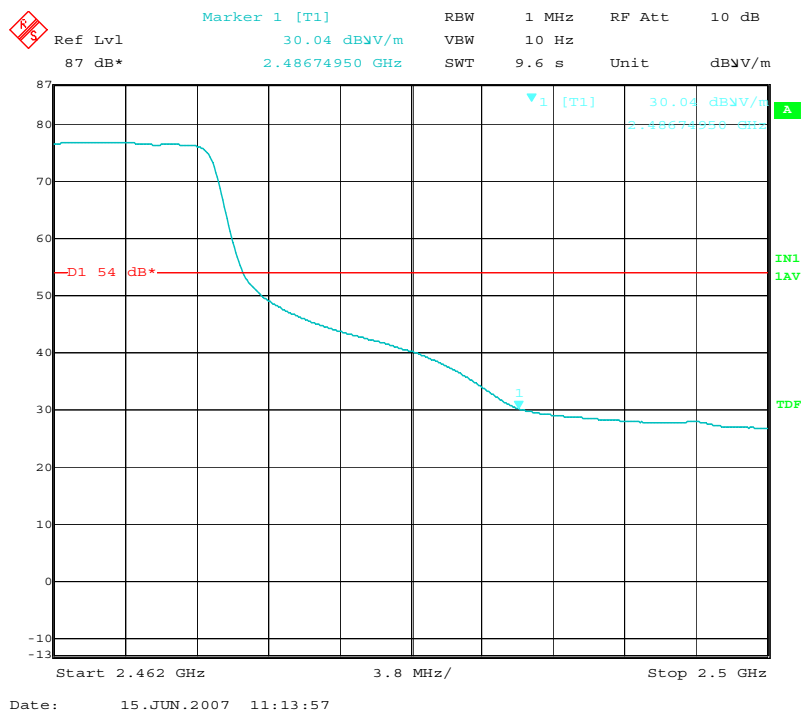
Ch.11 (802.11g) 54Mbps

Detector Mode: Average

Polarity: Horizontal

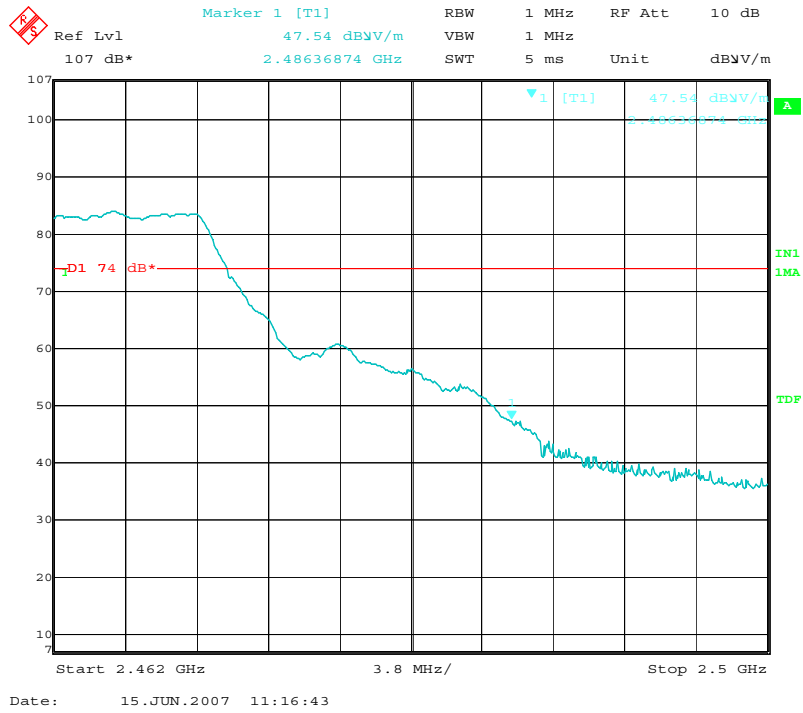


Polarity: Vertical

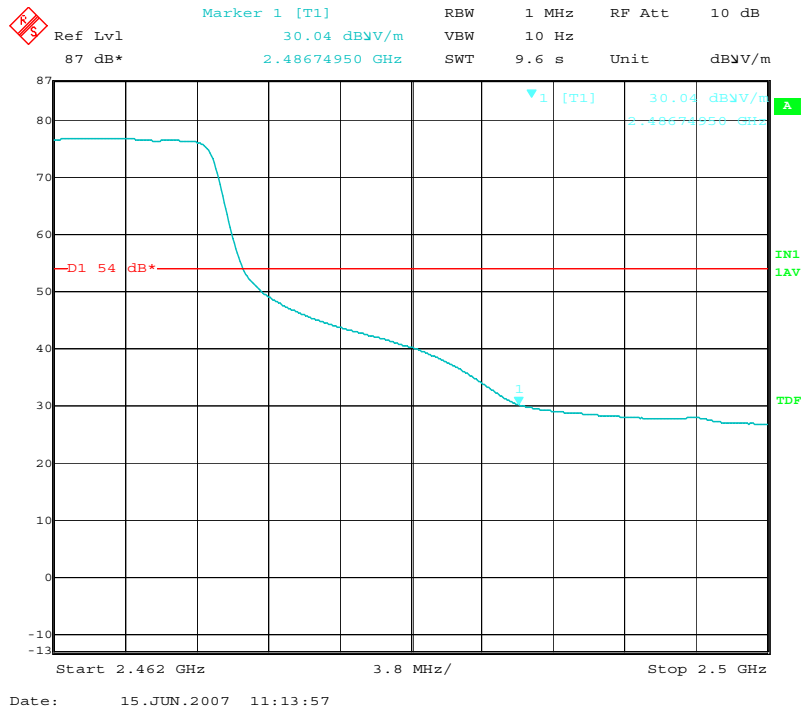


Detector Mode: Peak

Polarity: Horizontal



Polarity: Vertical



6.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

■ **RESULT PLOTS**

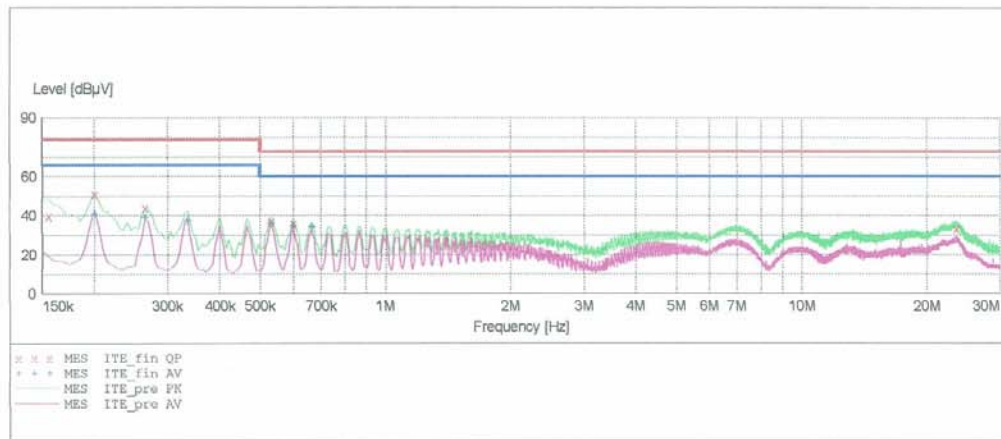
HCT

EMC TEST LAB

EUT: MC-6500S
 Manufacturer: MOBILE COMPIA
 Operating Condition: WLAN MODE
 Test Site: SHIELD ROOM
 Operator: YS-JUNG
 Test Specification: CISPR 22 CLASS A
 Comment: N

SCAN TABLE: "CISPR22 CLASS A"

Start	Stop	Step	EN 55022 Voltage	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	5.0 kHz		MaxPeak	10.0 ms	9 kHz	None
				Average			
500.0 kHz	30.0 MHz	5.0 kHz		MaxPeak	10.0 ms	9 kHz	None
				Average			



MEASUREMENT RESULT: "ITE_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.155000	39.50	10.0	79	39.5	---	---
0.200000	50.80	10.0	79	28.2	---	---
0.265000	43.70	10.0	79	35.3	---	---
0.530000	36.70	10.1	73	36.3	---	---
0.600000	35.60	10.1	73	37.4	---	---
23.590000	33.00	12.6	73	40.0	---	---

MEASUREMENT RESULT: "ITE_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.200000	41.10	10.0	66	24.9	---	---
0.265000	39.00	10.0	66	27.0	---	---
0.335000	37.50	10.0	66	28.5	---	---
0.530000	36.00	10.1	60	24.0	---	---

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MEASUREMENT RESULT: "ITE_fin AV"

(continued)

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.600000	34.90	10.1	60	25.1	---	---
0.665000	34.40	10.1	60	25.6	---	---

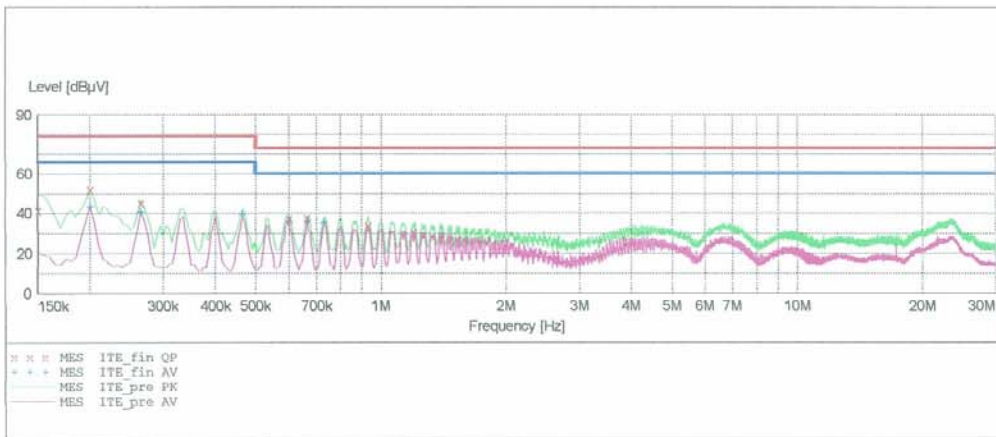
HCT

EMC TEST LAB

EUT: MC-6500S
 Manufacturer: MOBILE COMPIA
 Operating Condition: WLAN MODE
 Test Site: SHIELD ROOM
 Operator: YS-JUNG
 Test Specification: CISPR 22 CLASS A
 Comment: H

SCAN TABLE: "CISPR22 CLASS A"

Start	Stop	Step	EN 55022 Voltage	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 150.0 kHz	Frequency 500.0 kHz	Width 5.0 kHz		MaxPeak	10.0 ms	9 kHz	None
				Average			
500.0 kHz	30.0 MHz	5.0 kHz		MaxPeak	10.0 ms	9 kHz	None
				Average			



MEASUREMENT RESULT: "ITE_fin QP"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.150000	41.30	10.0	79	37.7	---	---
0.200000	51.90	10.0	79	27.1	---	---
0.265000	45.30	10.0	79	33.7	---	---
0.600000	37.20	10.1	73	35.8	---	---
0.665000	37.50	10.1	73	35.5	---	---
0.930000	33.80	10.1	73	39.2	---	---

MEASUREMENT RESULT: "ITE_fin AV"

6/18/2007 1:58PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.200000	43.50	10.0	66	22.5	---	---
0.265000	40.90	10.0	66	25.1	---	---
0.465000	39.60	10.1	66	26.4	---	---
0.600000	36.20	10.1	60	23.8	---	---

MEASUREMENT RESULT: "ITE_fin AV"

(continued)

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.665000	36.50	10.1	60	23.5	---	---
0.730000	35.40	10.1	60	24.6	---	---

7. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Calibration Date	Cal Interval	Calibration Due	Serial No.
Rohde & Schwarz	ESI40/ EMI Test Receiver	11/06/2006	Annual	11/06/2007	831564103
Rohde & Schwarz	ESCI/ EMI Test Receiver	08/24/ 2006	Annual	08/24/ 2007	100033
Rohde & Schwarz	ESH2-Z5/ LISN	04/20/2007	Annual	04/20/2008	861741/013
Rohde & Schwarz	ESH3-Z6/ LISN	04/11/2006	Annual	03/16/2008	837950/023
Schwarzbeck	VULB 9160/ TRILOG Antenna	04/20/2007	Annual	04/20/2008	9160-3150
HD	MA240/ Antenna Position Tower	N/A	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	N/A	12
Rohde & Schwarz	ESH3-Z2/ PULSE LIMITER	03/16/2007	Annual	03/16/2008	375.8810.352
MITEQ	AMF-60-0010 1800-35-20P	01/24/2007	Annual	01/24/2008	1200937
MITEQ	AMF-6D-01180-35-20P	02/24/2007	Annual	02/24/2008	990893
Schwarzbeck	BBHA 9120D/ Horn Antenna	03/30/2007	Annual	03/30/2008	147
Schwarzbeck	BBHA9170/ SHF-EHF Horn Antenna	03/20/2007	Annual	03/20/2008	BBHA9170342
Rohde & Schwarz	HFH2-Z2/Loop Antenna	05/11/2007	Annual	01/10/2008	881056/070
ADVANTEST	R3273/Spectrum Analyzer	05/02/2007	Annual	05/02/2008	J004821
Agilent	E4416A /Power Meter	01/22/2007	Annual	01/22/2008	GB41291412
Agilent	E7405A	10/02/2006	Annual	10/02/2007	US40240209
Weinschel	2/Attenuator	01/24/2007	Annual	01/24/2008	BR0554
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	06/28/2006	Annual	06/28/2007	1