

APPLICATION CERTIFICATION FCC Part 15C

On Behalf of
Cogent Systems Inc.

Mobile Ident IIIc
Model No.: Mi3c

FCC ID: TLDMI3C

Prepared for : Cogent Systems Inc.
Address : Fiyta Hi-tech Building, Gaoxinnanyi Avenue, Southern
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China

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Report Number : ATE20091159-1
Date of Test : July 9-30, 2009
Date of Report : July 30, 2009

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Test Report Certification

Applicant : Cogent Systems Inc.
Manufacturer : Cogent Systems Inc.
EUT Description : Mobile Ident IIIc
(A) MODEL NO.: Mi3c
(B) SERIAL NO.: N/A

Measurement Procedure Used:

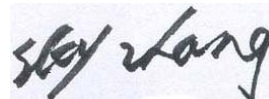
FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

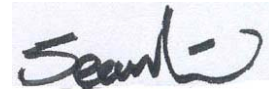
Date of Test : July 9-30, 2009

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: Mobile Ident IIIc
	The EUT include Bluetooth module, Wi-Fi module, GPRS module, GPS module and Contactless Card scanning module. The working frequency of GPS is higher than 960MHz, according to 15.101 b, the test needn't do. GPRS module and Bluetooth module have passed FCC test, the GPRS module FCC ID is N7NMC8775, the Bluetooth module FCC ID is TLDCS0907A. The test was performed with the Wi-Fi mode.
Model Number	: Mi3c
Power Supply	: DC 4.2V(Li-ion battery 1×) or DC 5V (Adapter input)
Adapter	: Model: DSA-30W-05 US 050200 Input: 100-240V, 50/60Hz, 0.8A Output: DC 5V, 4A Output line: Non-shielded, non-detachable, 1.0m with three ferrite cores
USB Cable	: Shielded, Detachable, 1.0m with three ferrite cores
Applicant	: Cogent Systems Inc.
Address	: Fiyta Hi-tech Building, Gaoxinnanyi Avenue, Southern District of Hi-tech Park, Nanshan District, Shenzhen China
Manufacturer	: Cogent Systems Inc.
Address	: Fiyta Hi-tech Building, Gaoxinnanyi Avenue, Southern District of Hi-tech Park, Nanshan District, Shenzhen China
Wi-Fi Transmitter	
Frequency Band	: 2412-2462MHz, 11 channels
Channel Spacing	: 5MHz
Antenna Gain	: 0.85dBi
Date of sample received	: July 7, 2009
Date of Test	: July 9-30, 2009

1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.28.2010
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	03.28.2010
Spectrum Analyzer	Agilent	E7405A	MY45115511	03.28.2010
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	03.30.2010
Loop Antenna	Schwarzbeck	FMZB1516	1516131	03.28.2010
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	03.28.2010
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	12.19.2009
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	10.09.2009
LISN	Rohde&Schwarz	ESH3-Z5	100305	03.28.2010
LISN	Schwarzbeck	NSLK8126	8126431	03.28.2010

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: Wi-Fi Transmitting at 2412MHz
Wi-Fi Transmitting at 2437MHz
Wi-Fi Transmitting at 2462MHz

3.2.Configuration and peripherals

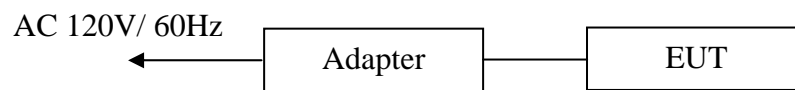


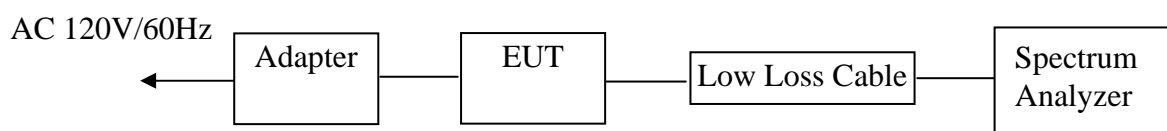
Figure 1 Setup: Transmitting mode

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Wi-Fi Transmitter		
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.207	Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 6DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



(EUT: Mobile Ident IIIc)

5.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. Mobile Ident IIIc (EUT)

Model Number	: Mi3c
Serial Number	: N/A
Manufacturer	: Cogent Systems Inc.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2. Set RBW of spectrum analyzer to 300kHz and VBW to 1MHz.

5.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

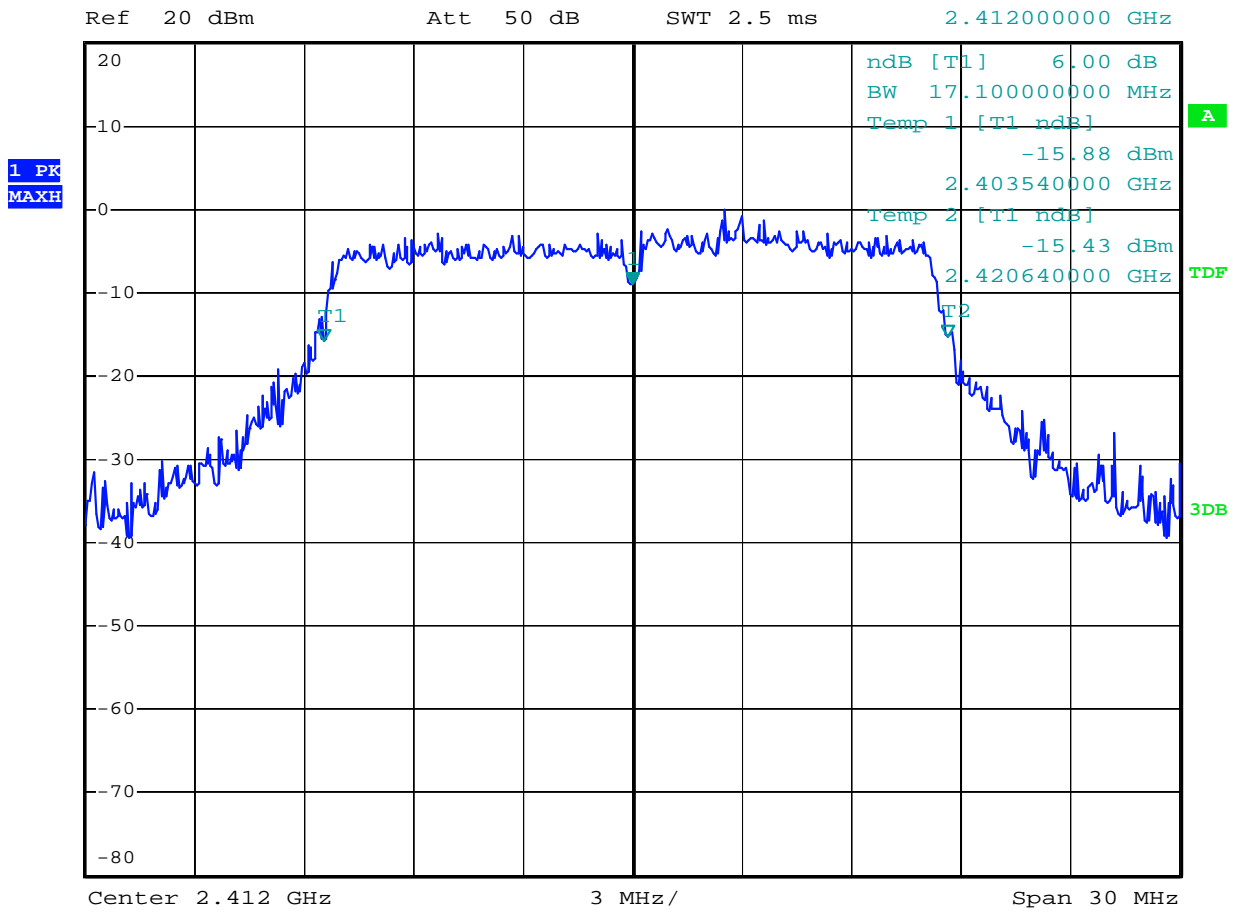
5.6. Test Result

PASS.

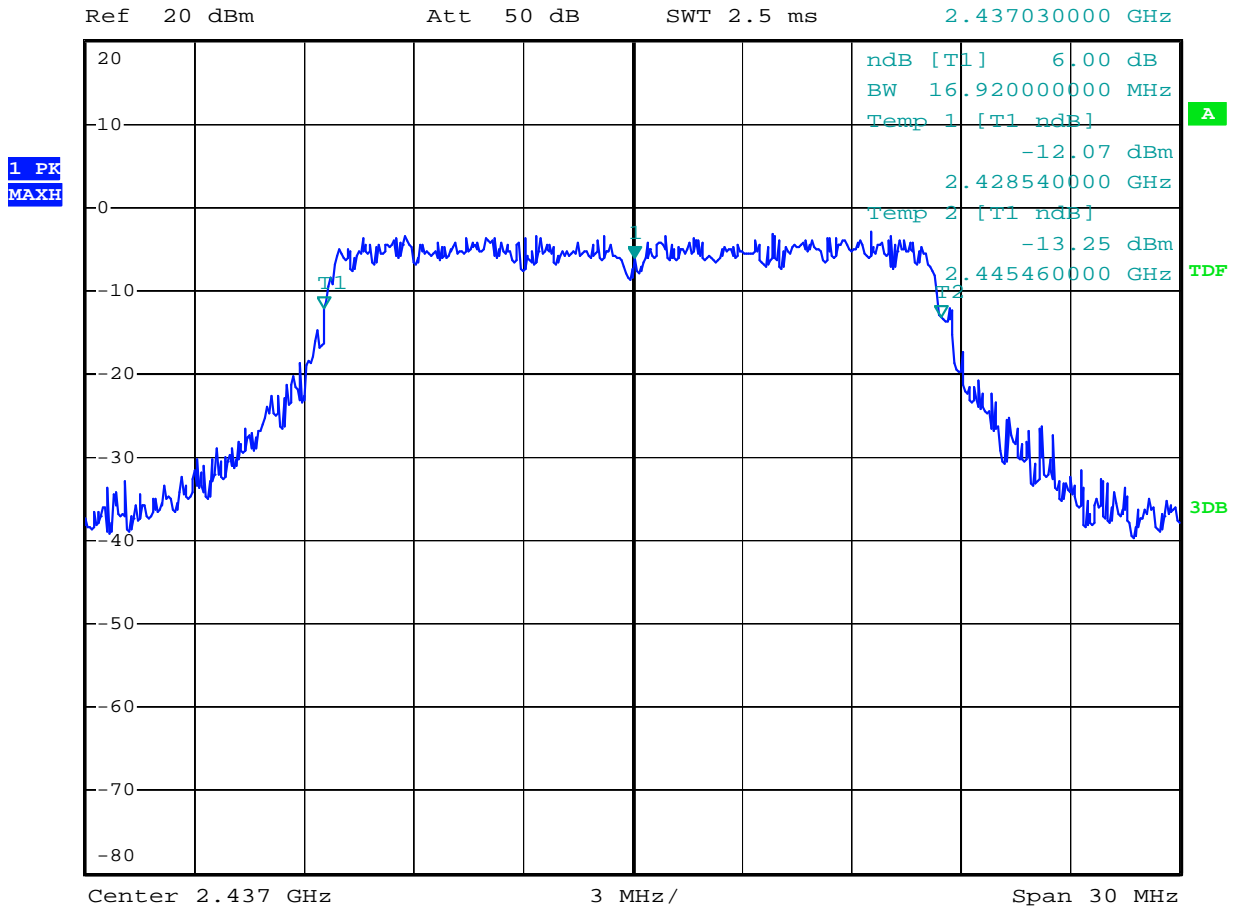
Date of Test:	<u>July 21, 2009</u>	Temperature:	<u>25°C</u>
EUT:	<u>Mobile Ident IIIc</u>	Humidity:	<u>50%</u>
Model No.:	<u>Mi3c</u>	Power Supply:	<u>AC 120V/ 60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Joe</u>

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.10	> 0.5MHz
Middle	2437	16.92	> 0.5MHz
High	2462	17.16	> 0.5MHz

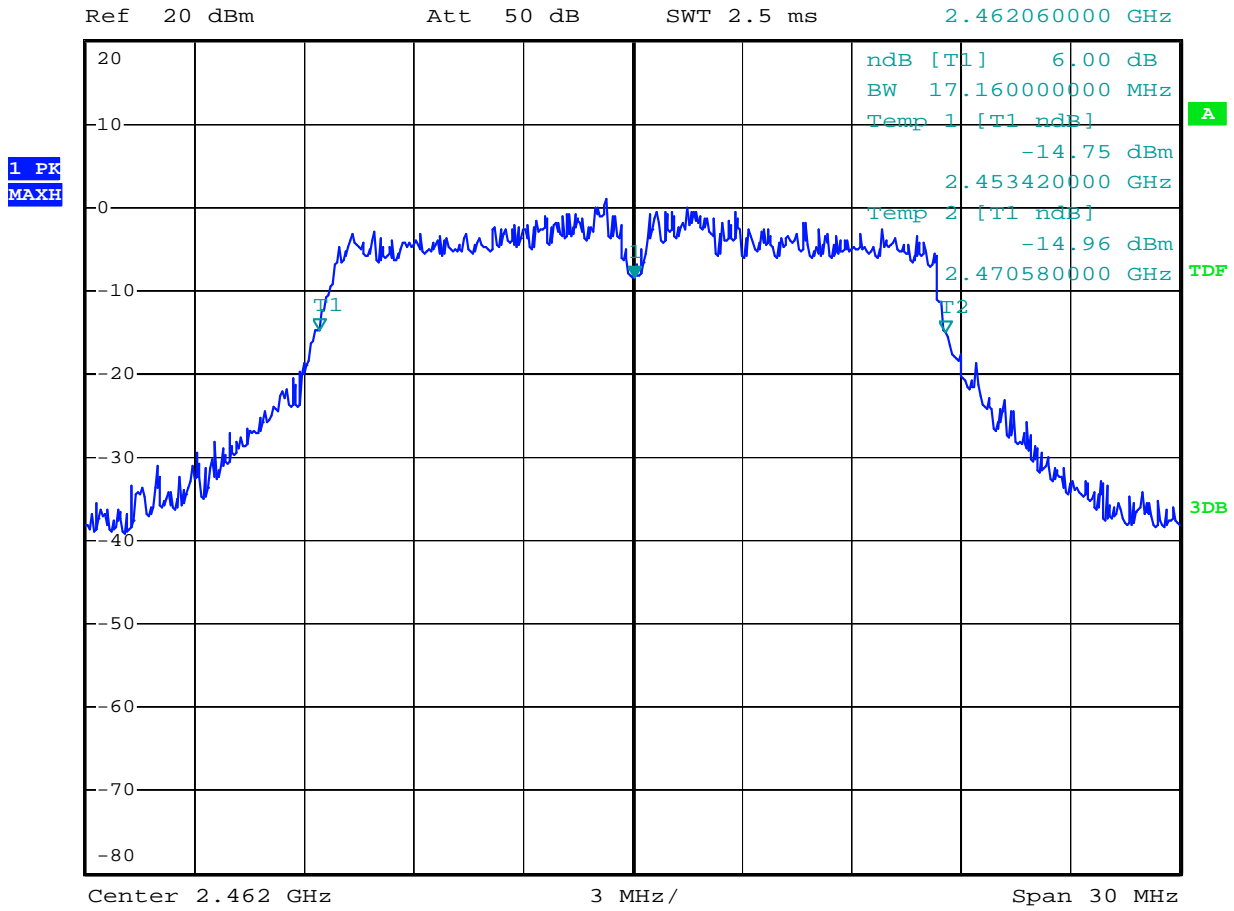
The spectrum analyzer plots are attached as below.



Date: 21.JUL.2009 09:40:45



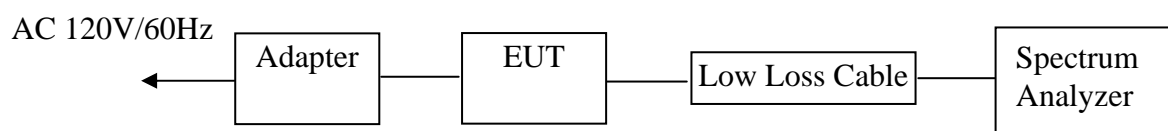
Date: 21.JUL.2009 10:23:25



Date: 21.JUL.2009 11:00:32

6. MAXIMUM PEAK OUTPUT POWER

6.1. Block Diagram of Test Setup



(EUT: Mobile Ident IIIc)

6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

6.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. Mobile Ident IIIc (EUT)

Model Number	:	Mi3c
Serial Number	:	N/A
Manufacturer	:	Cogent Systems Inc.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.3. Measurement the maximum peak output power.

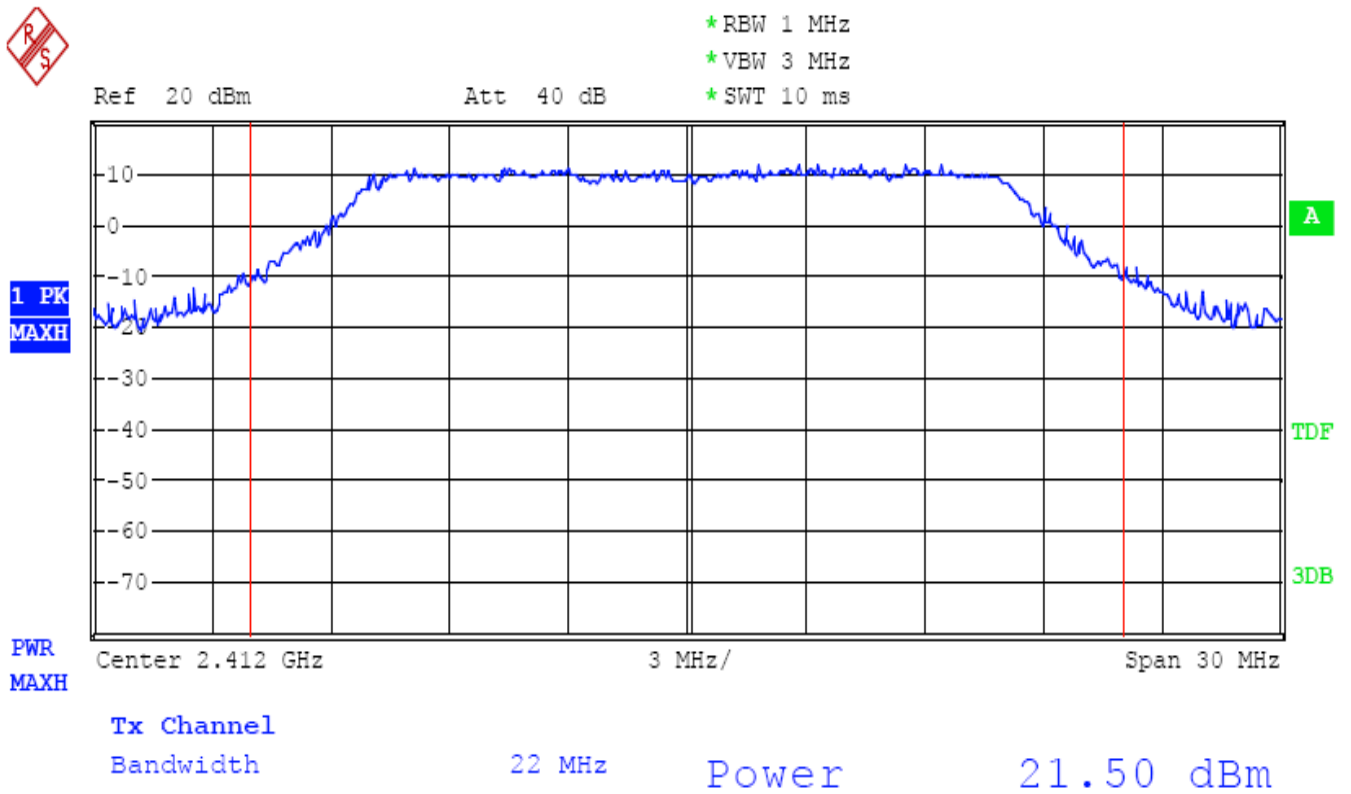
6.6. Test Result

PASS.

Date of Test:	<u>July 21, 2009</u>	Temperature:	<u>25°C</u>
EUT:	<u>Mobile Ident IIIc</u>	Humidity:	<u>50%</u>
Model No.:	<u>Mi3c</u>	Power Supply:	<u>AC 120V/ 60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Joe</u>

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	21.50	141.3	30 dBm / 1 W
Middle	2437	20.81	120.5	30 dBm / 1 W
High	2462	19.57	90.6	30 dBm / 1 W

The spectrum analyzer plots are attached as below.





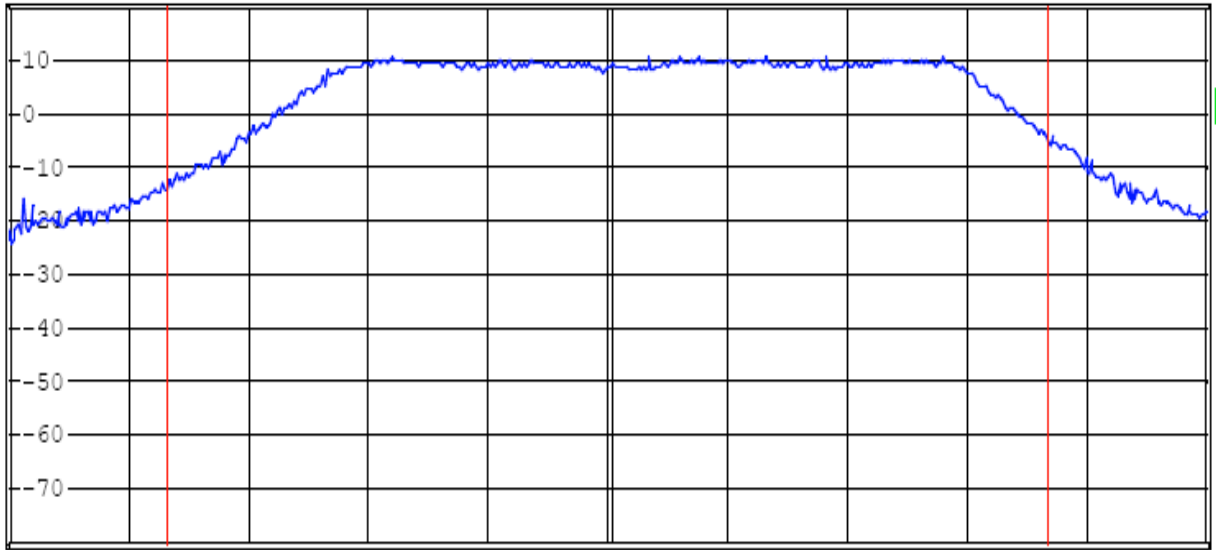
* RBW 1 MHz
* VBW 3 MHz
* SWT 10 ms

Ref 20 dBm

Att 40 dB

1 PK
MAXH

PWR
MAXH



Tx Channel

Bandwidth

22 MHz

Power

20.81 dBm

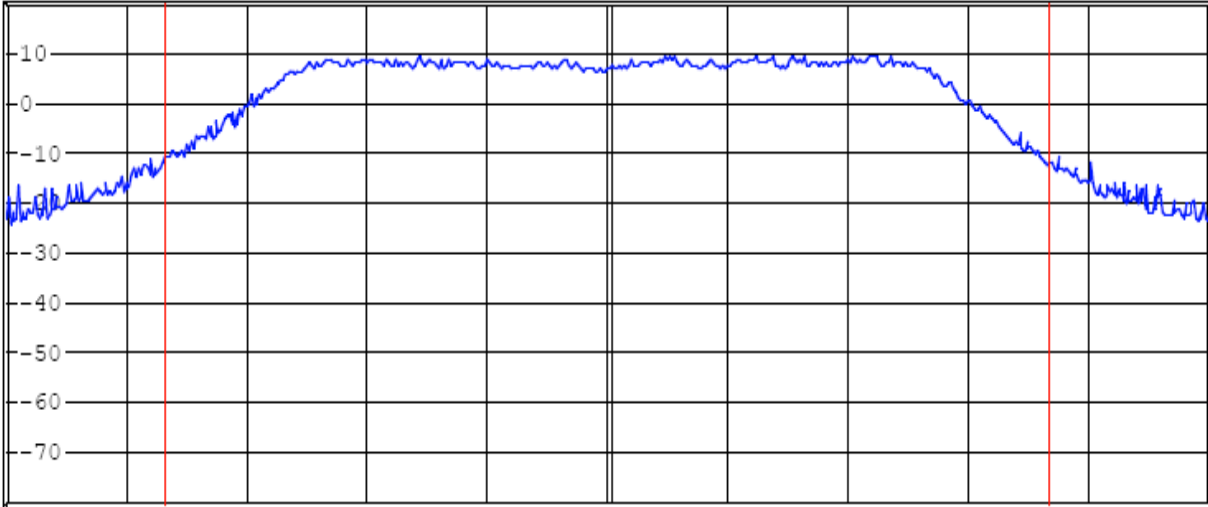


*RBW 1 MHz
*VBW 3 MHz
*SWT 10 ms

Ref 20 dBm Att 40 dB

1 PK
MAXH

PWR
MAXH



A

TDF

3DB

Tx Channel

Bandwidth

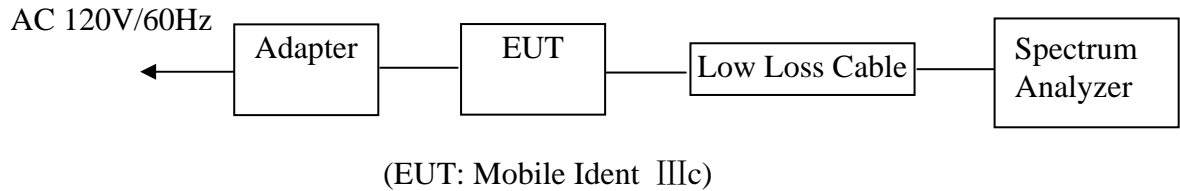
22 MHz

Power

19.57 dBm

7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. Mobile Ident IIIc (EUT)

Model Number	:	Mi3c
Serial Number	:	N/A
Manufacturer	:	Cogent Systems Inc.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set RBW of spectrum analyzer to 3kHz and VBW to 3kHz, sweep time = Span/3kHz.

7.5.3. Measurement the maximum power spectral density.

7.6. Test Result

PASS.

Date of Test:	<u>July 21, 2009</u>	Temperature:	<u>25°C</u>
EUT:	<u>Mobile Ident IIIc</u>	Humidity:	<u>50%</u>
Model No.:	<u>Mi3c</u>	Power Supply:	<u>AC 120V/ 60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Joe</u>

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-20.61	8 dBm
Middle	2437	-19.91	8 dBm
High	2462	-21.67	8 dBm

The spectrum analyzer plots are attached as below.

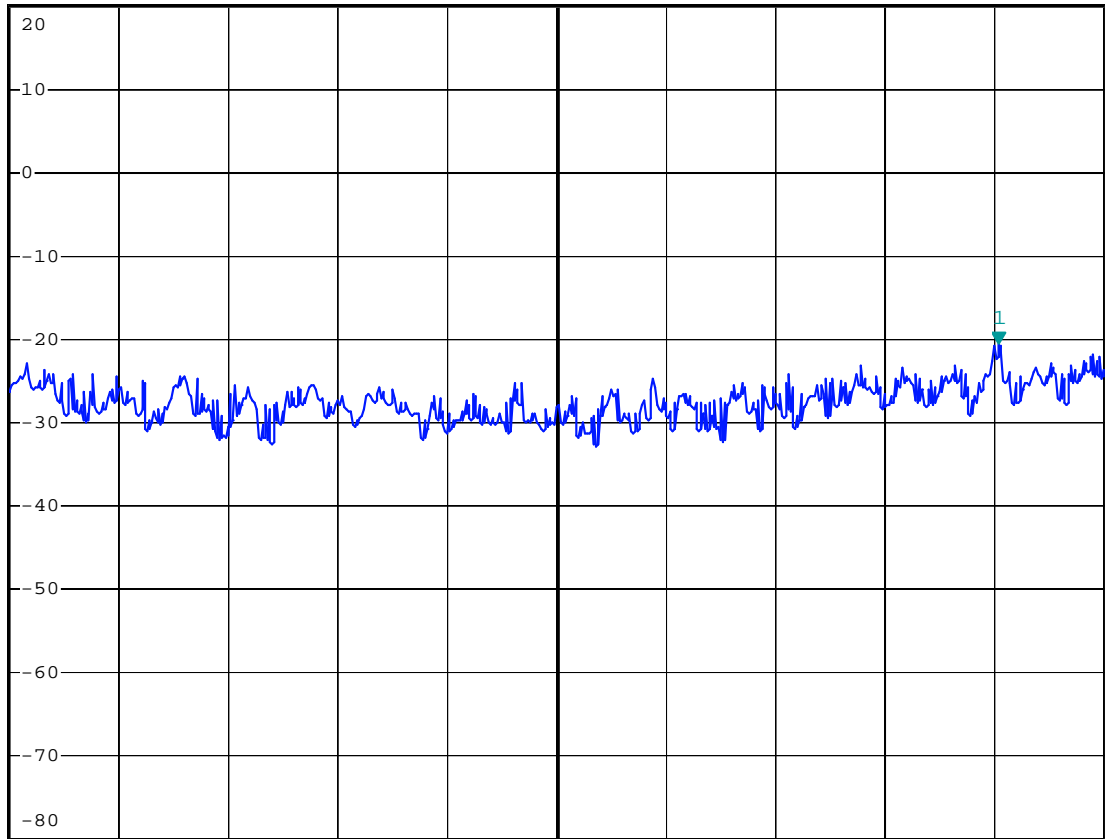


*RBW 3 kHz Marker 1 [T1]
*VBW 3 kHz -20.61 dBm
*SWT 100 s 2.418841200 GHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.41872 GHz

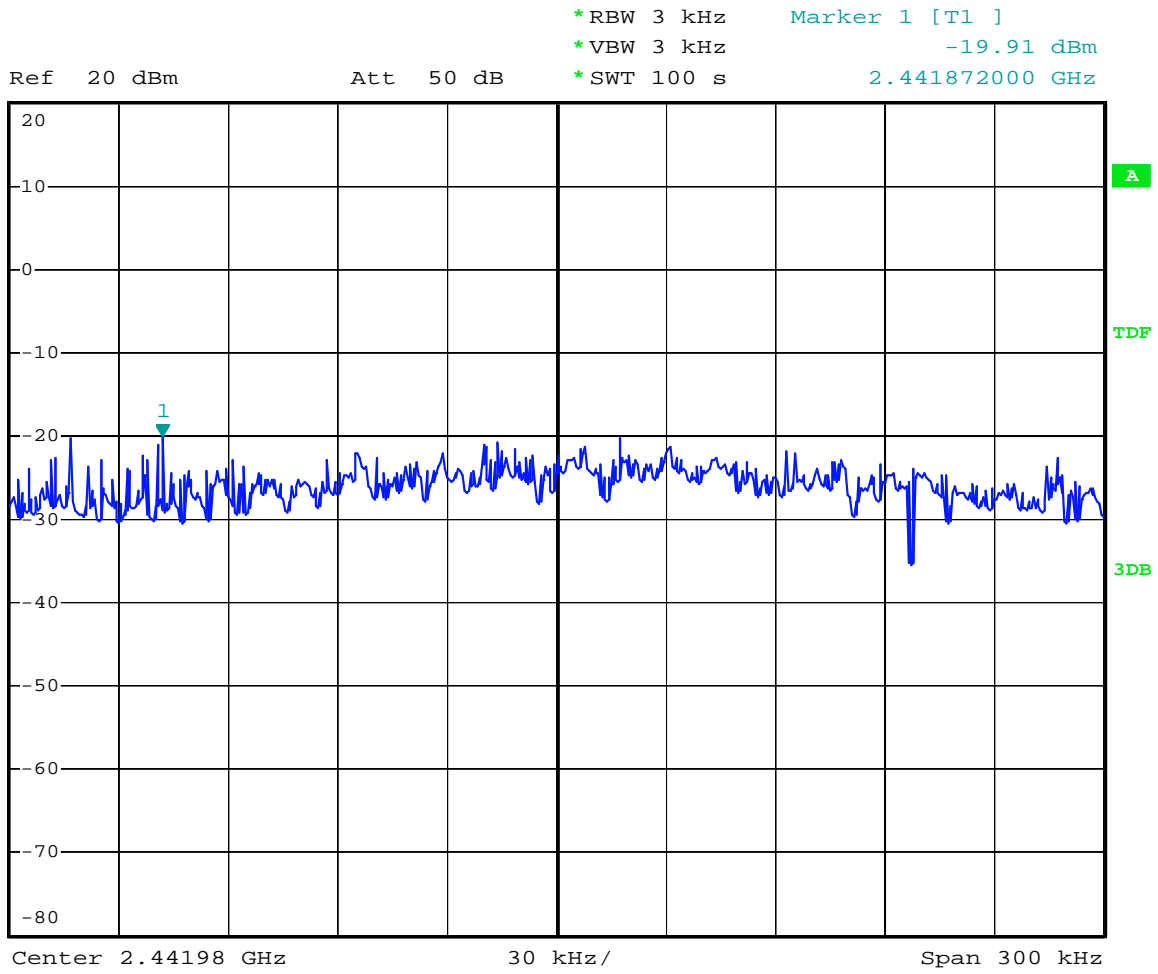
30 kHz/

Span 300 kHz

Date: 21.JUL.2009 09:28:19



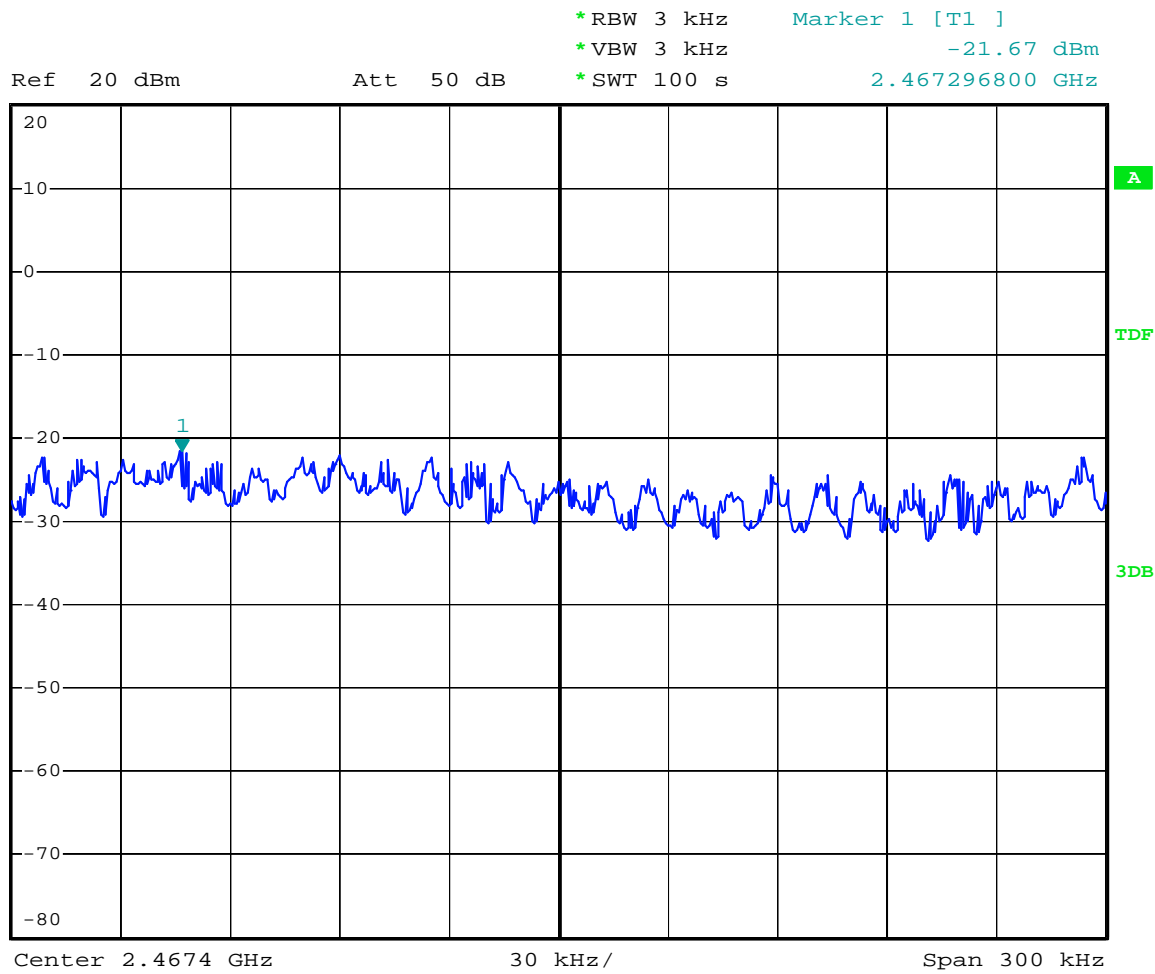
1 PK
MAXH



Date: 21.JUL.2009 10:19:20



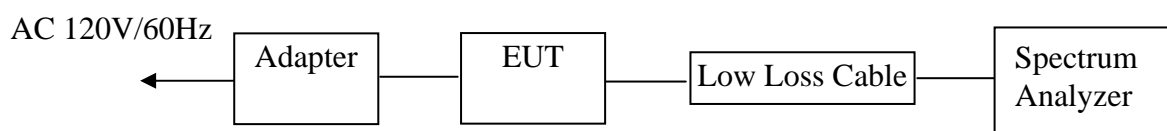
1 PK
MAXH



Date: 21.JUL.2009 10:55:21

8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



(EUT: Mobile Ident IIIc)

8.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

8.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1. Mobile Ident IIIc (EUT)

Model Number	:	Mi3c
Serial Number	:	N/A
Manufacturer	:	Cogent Systems Inc.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2462MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with convenient frequency span.

8.5.3. The band edges was measured and recorded.

8.6. Test Result

Pass

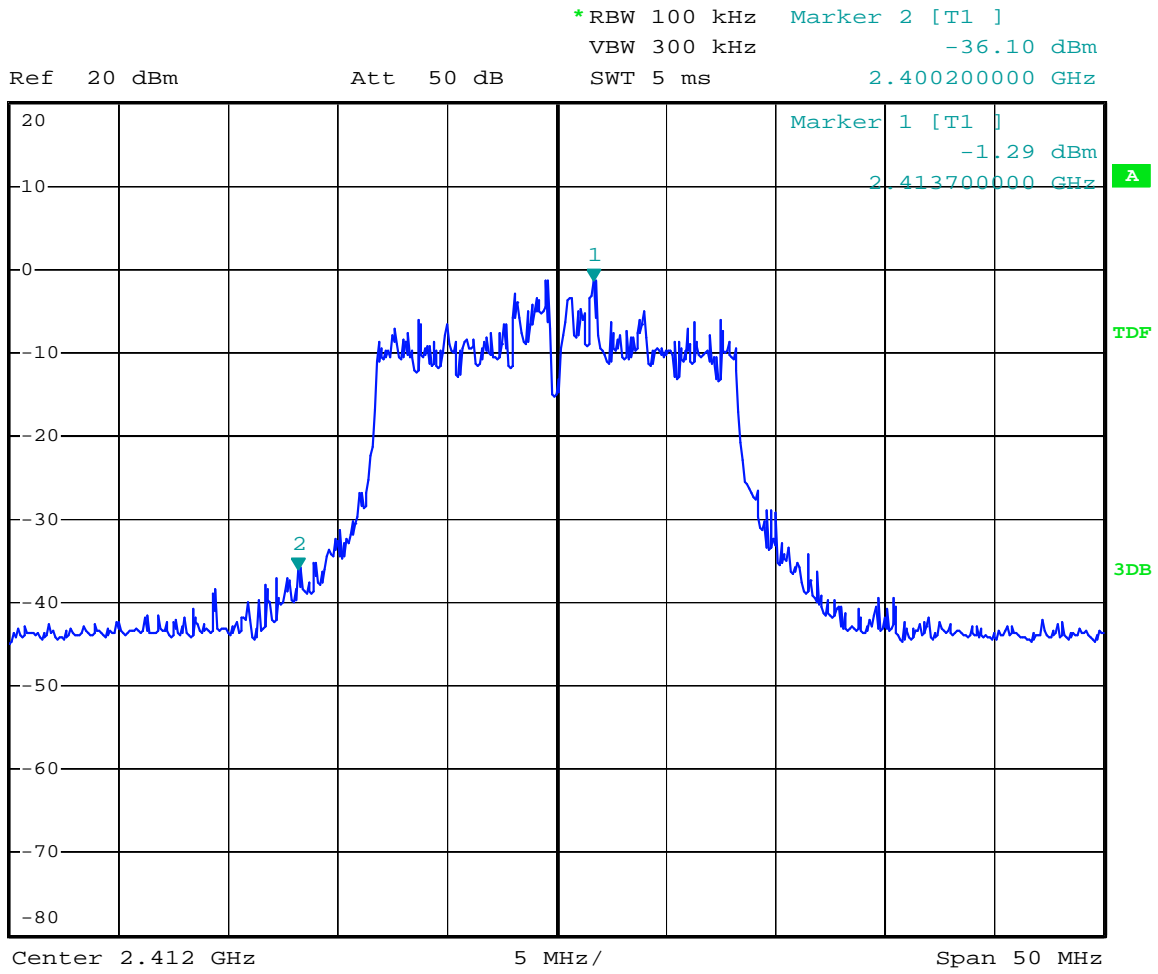
Date of Test:	July 21, 2009	Temperature:	25°C
EUT:	Mobile Ident IIIc	Humidity:	50%
Model No.:	Mi3c	Power Supply:	AC 120V/ 60Hz
Test Mode:	TX	Test Engineer:	Joe

Conducted test

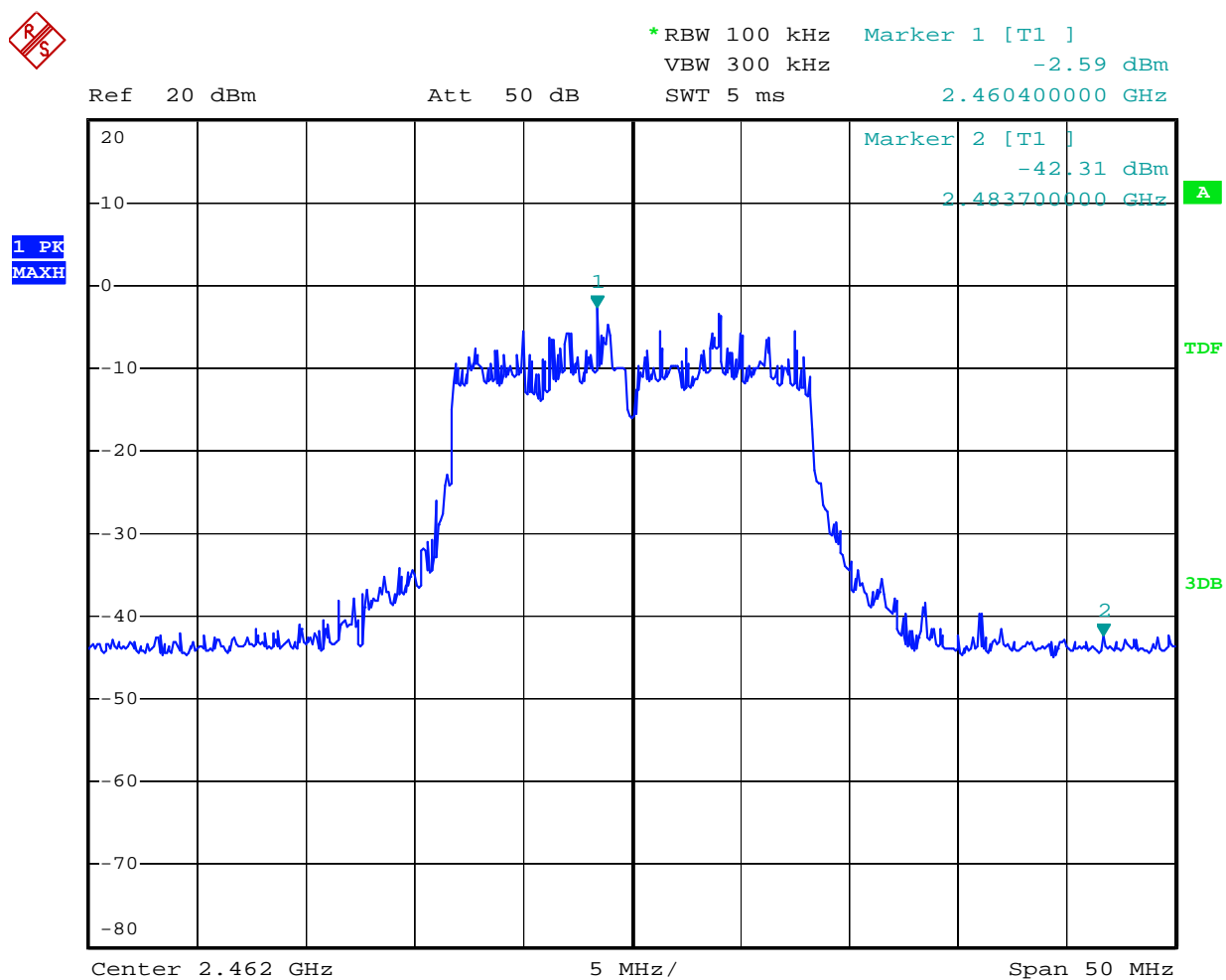
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	34.81	> 20dBc
2462	39.72	> 20dBc



1 PK
MAXH



Date: 21.JUL.2009 09:34:34

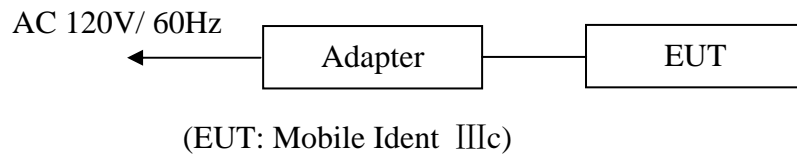


Date: 21.JUL.2009 10:58:02

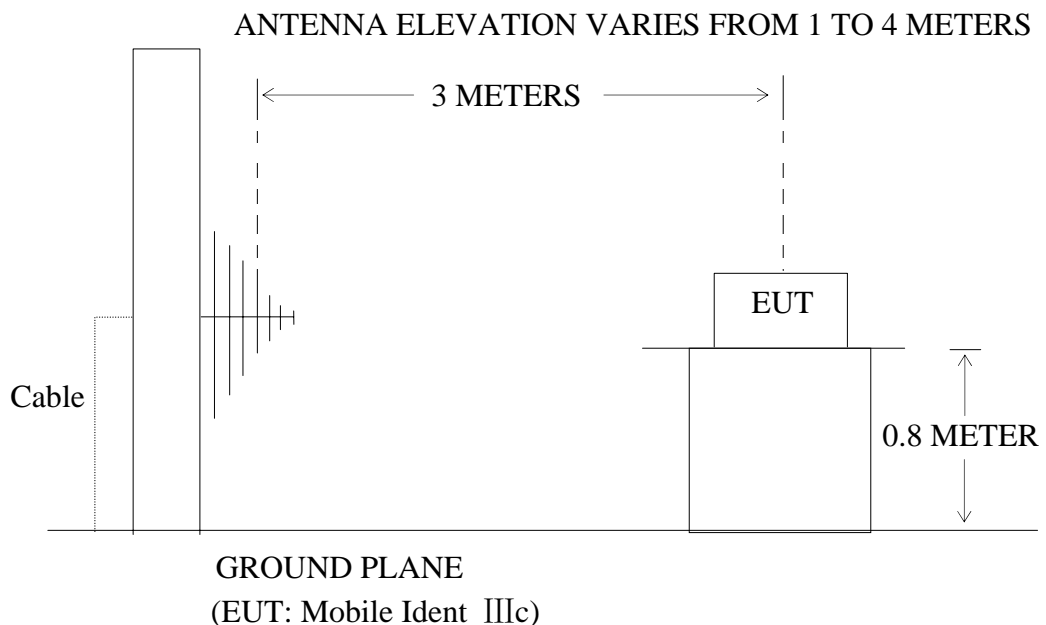
9. RADIATED SPURIOUS EMISSION TEST

9.1. Block Diagram of Test Setup

9.1.1. Block diagram of connection between the EUT and simulators



9.1.2. Semi-Anechoic Chamber Test Setup Diagram



9.2. The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.Restricted bands of operation

9.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

9.4.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.1.Mobile Ident IIIc (EUT)

Model Number : Mi3c
 Serial Number : N/A
 Manufacturer : Cogent Systems Inc.

9.5. Operating Condition of EUT

9.5.1. Setup the EUT and simulator as shown as Section 9.1.

9.5.2. Turn on the power of all equipment.

9.5.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

9.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver (R&S ESI26) is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

9.7.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	July 15, 2009	Temperature:	25°C
EUT:	Mobile Ident IIIc	Humidity:	50%
Model No.:	Mi3c	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2412MHz)	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
623.9739	14.53	26.05	40.58	46.00	-5.42	Vertical
636.9760	14.51	26.08	40.59	46.00	-5.41	Vertical
649.9750	14.29	25.98	40.27	46.00	-5.73	Vertical
584.9810	15.07	25.42	40.49	46.00	-5.51	Horizontal
610.9758	15.03	25.78	40.81	46.00	-5.19	Horizontal
636.9760	14.75	26.08	40.83	46.00	-5.17	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2400.000	44.33	48.55	-7.46	36.87	41.09	54	74	-17.13	-32.91	Vertical
2412.768	96.91	101.05	-7.43	89.48	93.62	-	-	-	-	Vertical
*4825.045	51.15	55.36	-0.17	50.98	55.19	54	74	-3.02	-18.81	Vertical
7237.137	46.21	50.42	3.05	49.26	53.47	54	74	-4.74	-20.53	Vertical
2400.000	43.36	47.59	-7.46	35.90	40.13	54	74	-18.10	-33.87	Horizontal
2412.768	95.28	99.48	-7.43	87.85	92.05	-	-	-	-	Horizontal
*4825.045	50.23	54.46	-0.17	50.06	54.29	54	74	-3.94	-19.71	Horizontal
7237.137	44.14	48.37	3.05	47.19	51.42	54	74	-6.81	-22.58	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

Date of Test:	July 15, 2009	Temperature:	25°C
EUT:	Mobile Ident IIIc	Humidity:	50%
Model No.:	Mi3c	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2437MHz)	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
623.9739	14.95	26.05	41.00	46.00	-5.00	Vertical
636.9760	15.11	26.08	41.19	46.00	-4.81	Vertical
649.9750	14.90	25.98	40.88	46.00	-5.12	Vertical
610.9758	15.46	25.78	41.24	46.00	-4.76	Horizontal
623.9739	15.45	26.05	41.50	46.00	-4.50	Horizontal
636.9760	15.45	26.08	41.53	46.00	-4.47	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2437.756	97.35	101.58	-7.36	89.99	94.22	-	-	-	-	Vertical
*4875.036	50.62	54.83	0.11	50.73	54.94	54	74	-3.27	-19.06	Vertical
2437.756	97.03	101.26	-7.36	89.67	93.90	-	-	-	-	Horizontal
*4875.036	50.20	54.41	0.11	50.31	54.52	54	74	-3.69	-19.48	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	July 15, 2009	Temperature:	25°C
EUT:	Mobile Ident IIIc	Humidity:	50%
Model No.:	Mi3c	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2462MHz)	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
623.9739	15.53	26.05	41.58	46.00	-4.42	Vertical
636.9760	15.16	26.08	41.24	46.00	-4.76	Vertical
649.9750	15.17	25.98	41.15	46.00	-4.85	Vertical
610.9758	15.28	25.78	41.06	46.00	-4.94	Horizontal
623.9739	15.77	26.05	41.82	46.00	-4.18	Horizontal
636.9760	15.96	26.08	42.04	46.00	-3.96	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2462.611	97.72	101.95	-7.35	90.37	94.60	-	-	-	-	Vertical
2483.500	40.28	44.50	-7.37	32.91	37.13	54	74	-21.09	-36.87	Vertical
*4924.965	50.56	54.79	0.34	50.90	55.13	54	74	-3.10	-18.87	Vertical
2462.611	96.65	100.88	-7.35	89.30	93.53	-	-	-	-	Horizontal
2483.500	40.66	44.87	-7.37	33.29	37.50	54	74	-20.71	-36.50	Horizontal
*4924.965	49.64	53.85	0.34	49.98	54.19	54	74	-4.02	-19.81	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**


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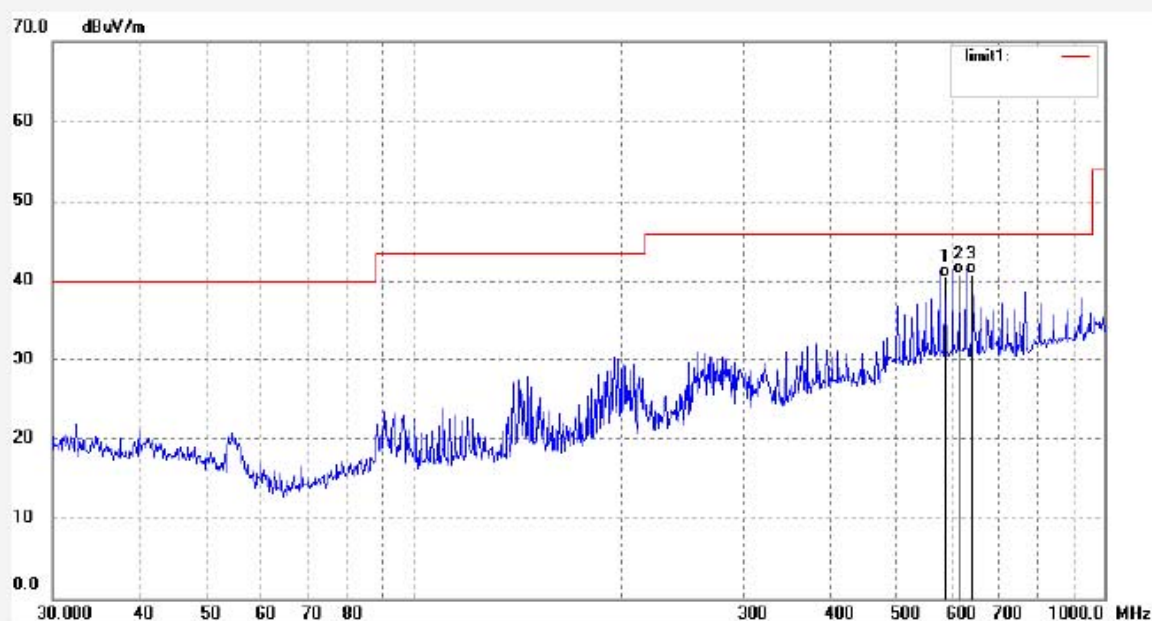
 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: RTTE #2335
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 50 %
 EUT: Mobile Ident IIIc
 Mode: TX 2412MHz
 Model: Mi3c

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 2009/07/15
 Time: 21:30:24
 Engineer Signature: Joe
 Distance: 3m

Manufacturer: Cogent System (ShenZhen) Inc

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	584.9810	15.07	25.42	40.49	46.00	-5.51	QP			
2	610.9758	15.03	25.78	40.81	46.00	-5.19	QP			
3	636.9760	14.75	26.08	40.83	46.00	-5.17	QP			


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Job No.: RTTE #2336

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2412MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

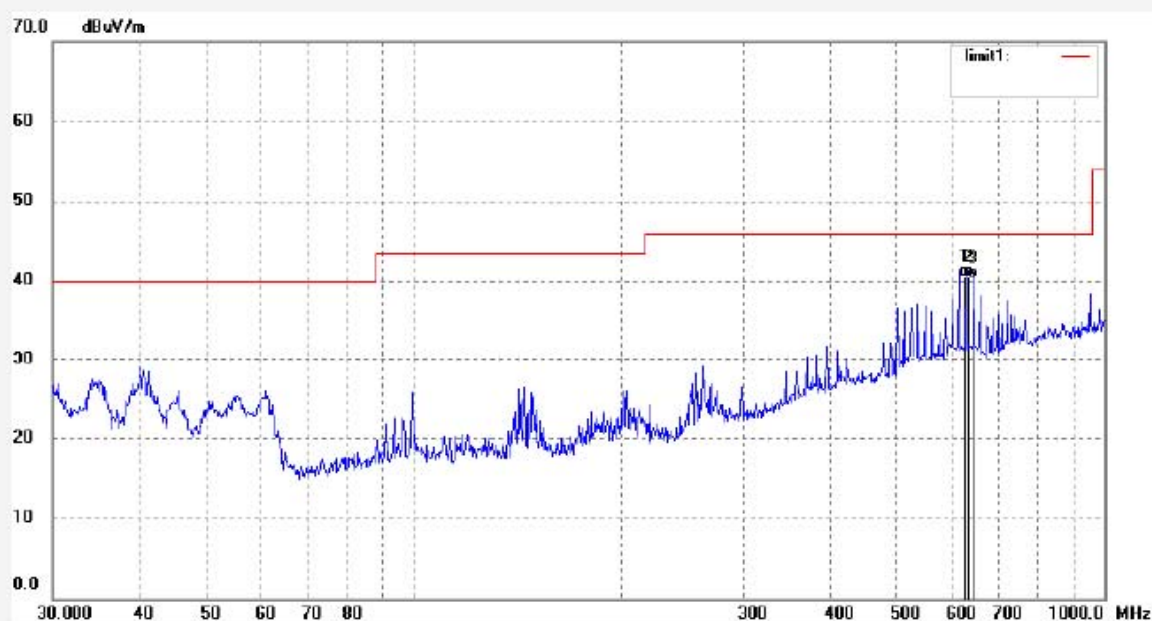
Date: 2009/07/15

Time: 21:34:19

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	623.9739	14.53	26.05	40.58	46.00	-5.42	QP			
2	636.9760	14.51	26.08	40.59	46.00	-5.41	QP			
3	649.9750	14.29	25.98	40.27	46.00	-5.73	QP			


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Job No.: RTTE #2308

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2412MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Horizontal

Power Source: AC 120V/60Hz

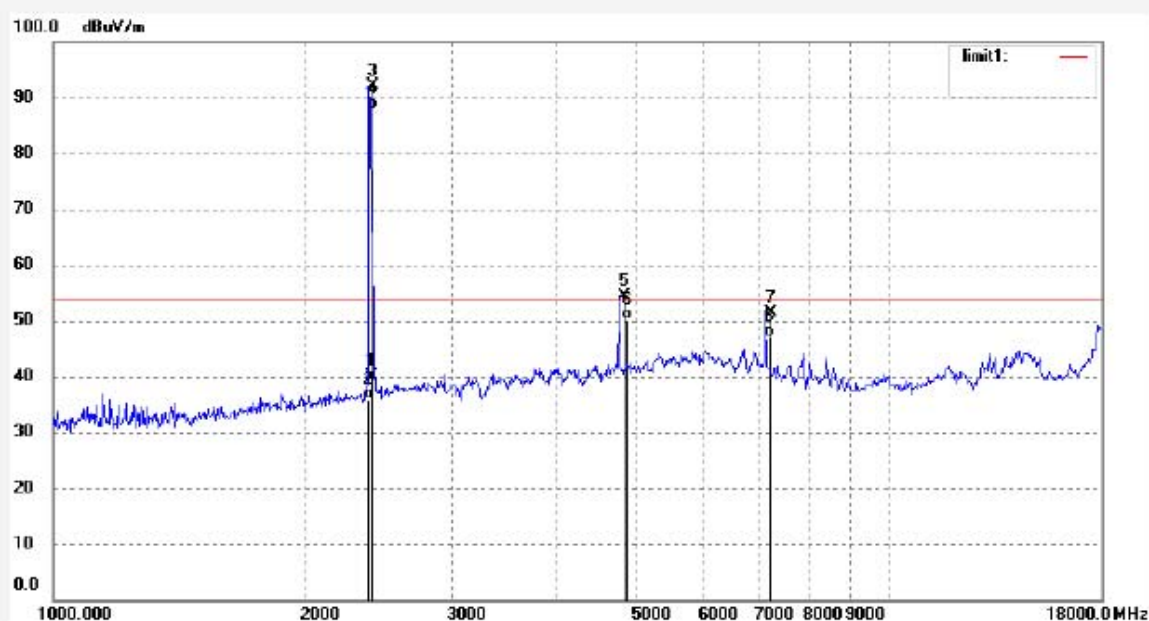
Date: 2009/07/15

Time: 16:54:50

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	47.59	-7.46	40.13	74.00	-33.87	peak			
2	2400.000	43.36	-7.46	35.90	54.00	-18.10	AVG			
3	2412.768	99.48	-7.43	92.05	-	-	peak			
4	2412.768	95.28	-7.43	87.85	-	-	AVG			
5	4825.045	54.46	-0.17	54.29	74.00	-19.71	peak			
6	4825.045	50.23	-0.17	50.06	54.00	-3.94	AVG			
7	7237.137	48.37	3.05	51.42	74.00	-22.58	peak			
8	7237.137	44.14	3.05	47.19	54.00	-6.81	AVG			


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Job No.: RTTE #2307

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2412MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

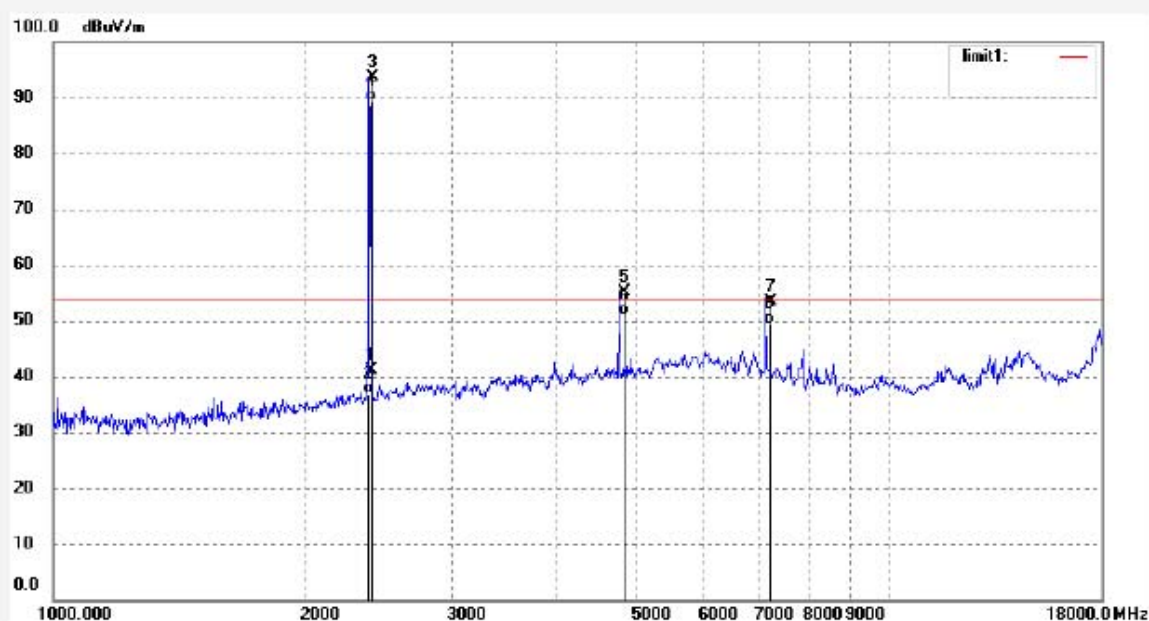
Date: 2009/07/15

Time: 16:42:17

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	48.55	-7.46	41.09	74.00	-32.91	peak			
2	2400.000	44.33	-7.46	36.87	54.00	-17.13	AVG			
3	2412.768	101.05	-7.43	93.62	-	-	peak			
4	2412.768	96.91	-7.43	89.48	-	-	AVG			
5	4825.045	55.36	-0.17	55.19	74.00	-18.81	peak			
6	4825.045	51.15	-0.17	50.98	54.00	-3.02	AVG			
7	7237.137	50.42	3.05	53.47	74.00	-20.53	peak			
8	7237.137	46.21	3.05	49.26	54.00	-4.74	AVG			


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Job No.: RTTE #2313

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2412MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Horizontal

Power Source: AC 120V/60Hz

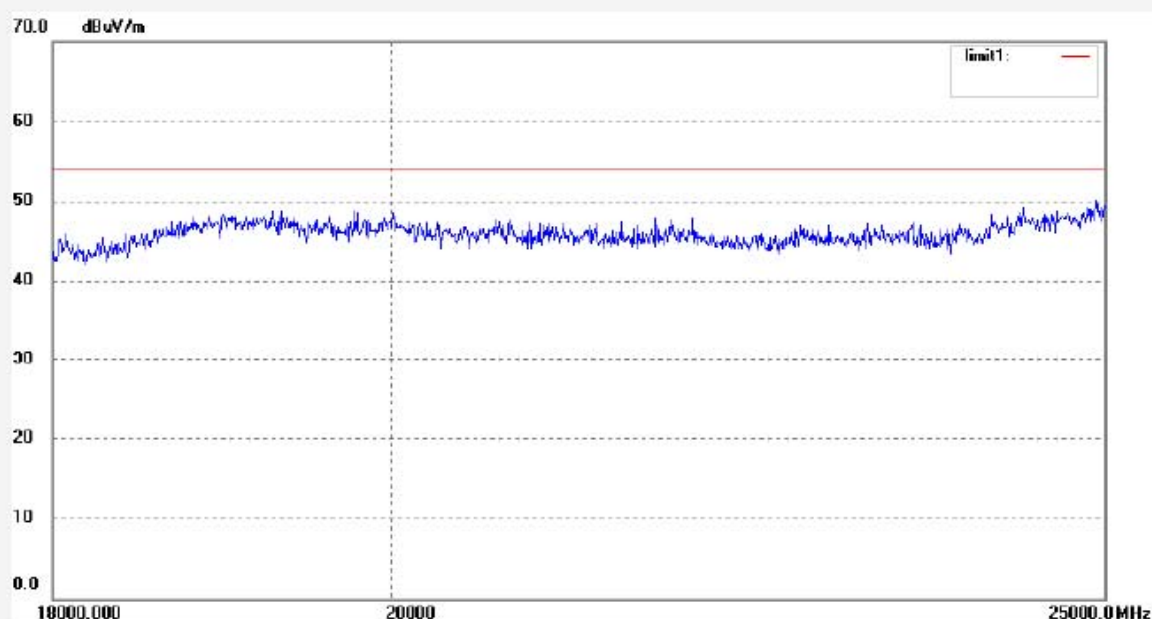
Date: 2009/07/15

Time: 18:06:40

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: RTTE #2314

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2412MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

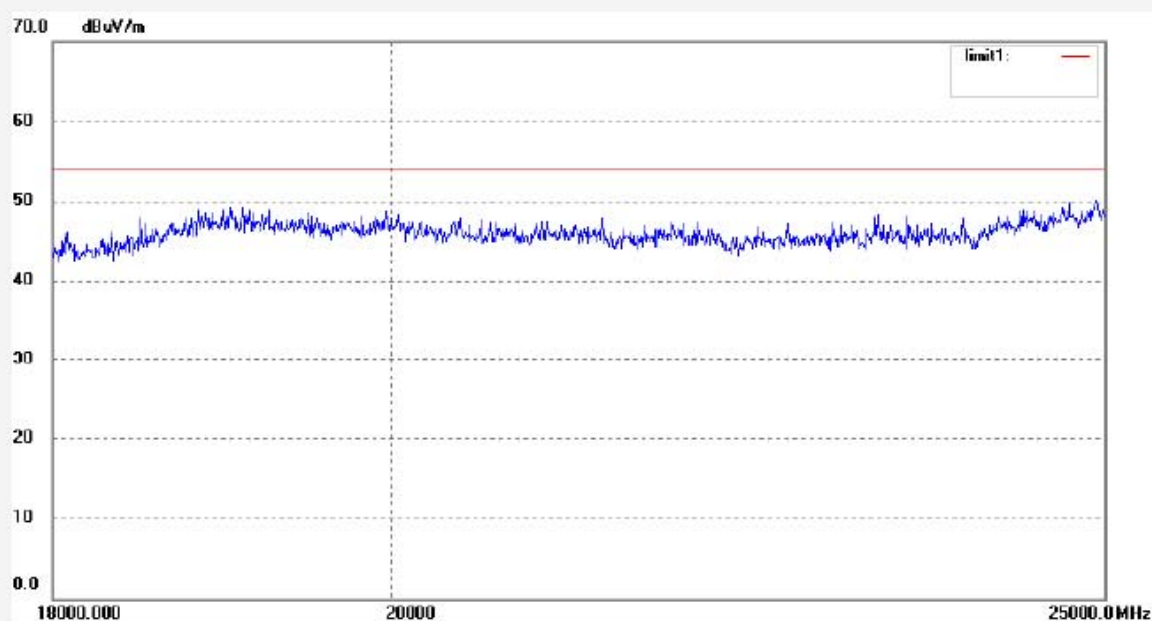
Date: 2009/07/15

Time: 18:10:04

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: RTTE #2338

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2437MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Horizontal

Power Source: AC 120V/60Hz

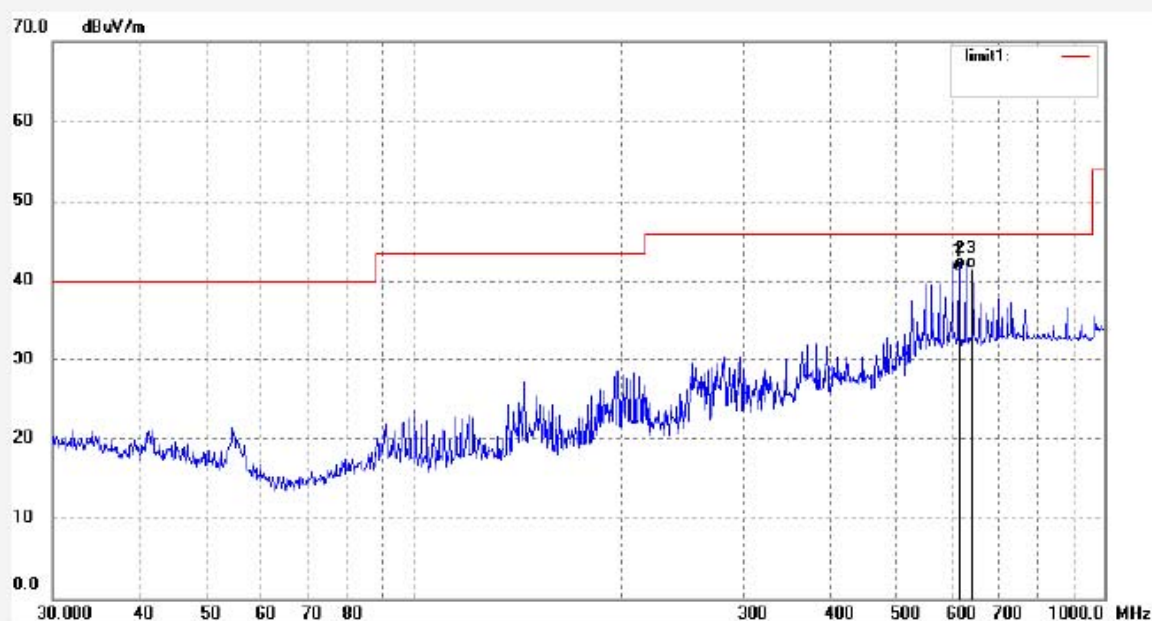
Date: 2009/07/15

Time: 21:43:15

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	610.9758	15.46	25.78	41.24	46.00	-4.76	QP			
2	623.9739	15.45	26.05	41.50	46.00	-4.50	QP			
3	636.9760	15.45	26.08	41.53	46.00	-4.47	QP			


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Job No.: RTTE #2337

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2437MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

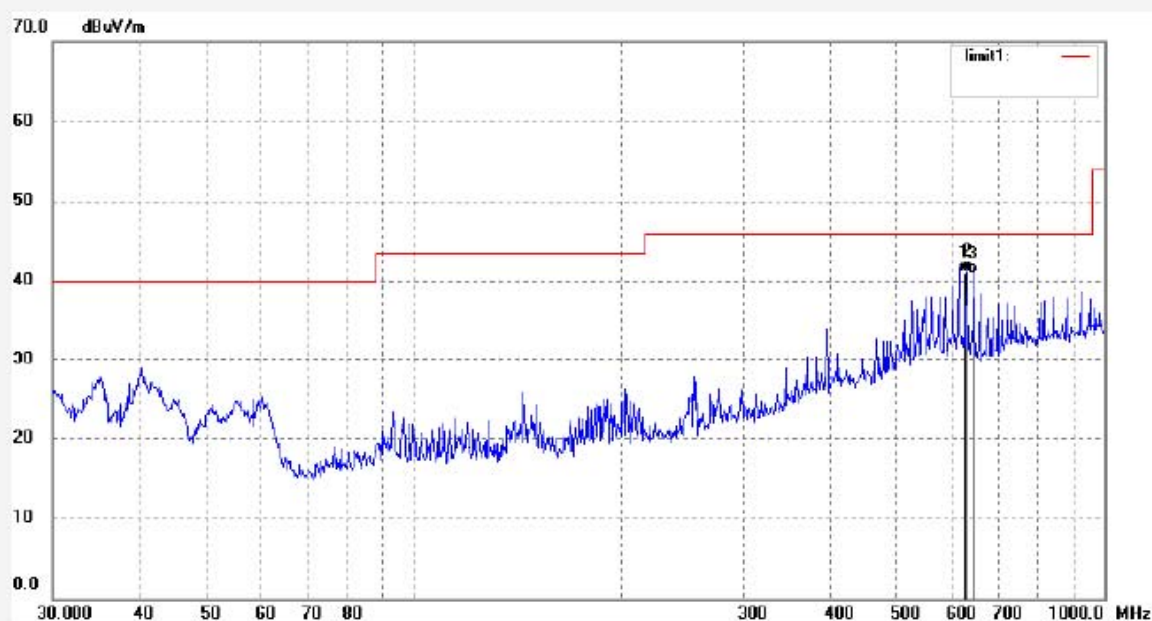
Date: 2009/07/15

Time: 21:39:24

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	623.9739	14.95	26.05	41.00	46.00	-5.00	QP			
2	636.9760	15.11	26.08	41.19	46.00	-4.81	QP			
3	649.9750	14.90	25.98	40.88	46.00	-5.12	QP			


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Job No.: RTTE #2309

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2437MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Horizontal

Power Source: AC 120V/60Hz

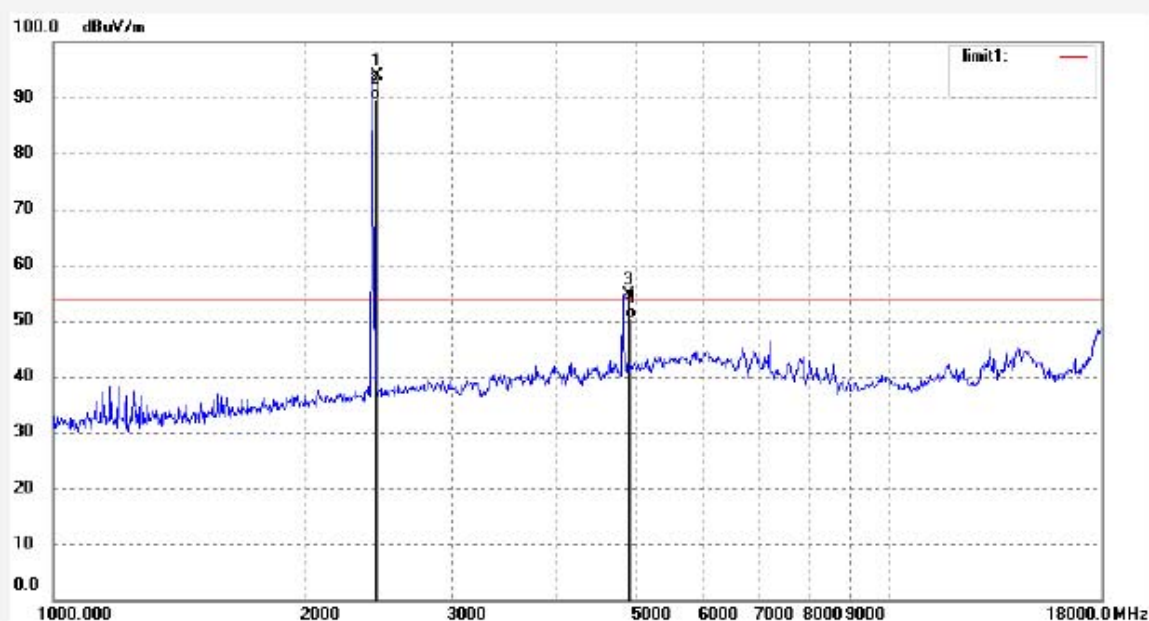
Date: 2009/07/15

Time: 17:07:02

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.756	101.26	-7.36	93.90	-	-	peak			
2	2437.756	97.03	-7.36	89.67	-	-	AVG			
3	4875.036	54.41	0.11	54.52	74.00	-19.48	peak			
4	4875.036	50.20	0.11	50.31	54.00	-3.69	AVG			


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 Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: RTTE #2310

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2437MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

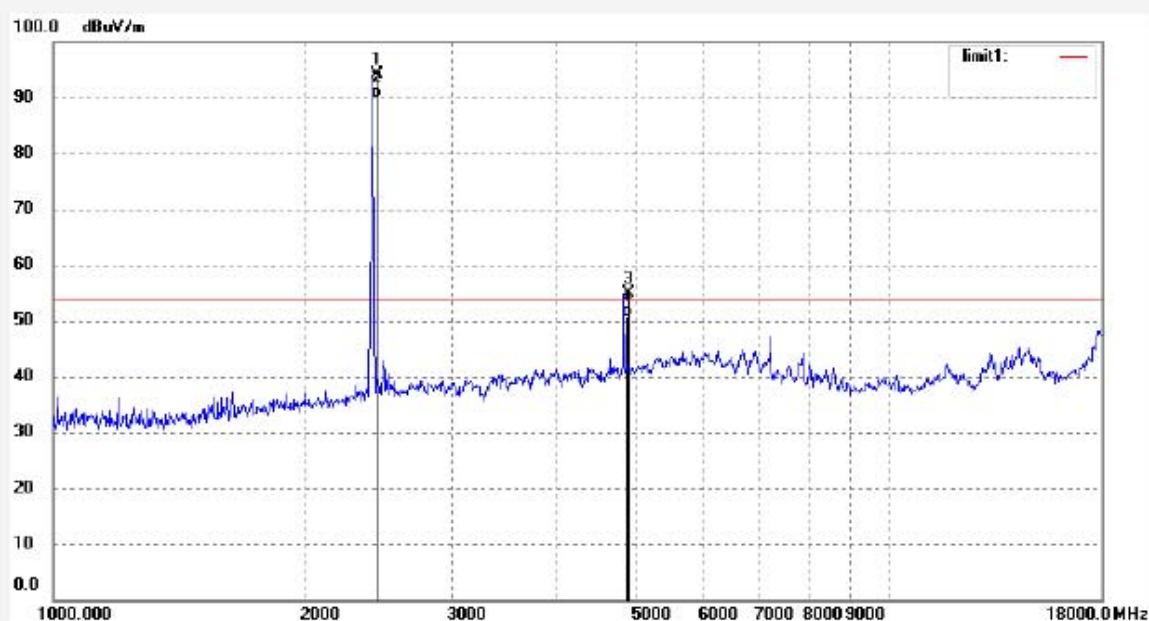
Date: 2009/07/15

Time: 17:18:53

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.756	101.58	-7.36	94.22	-	-	peak			
2	2437.756	97.35	-7.36	89.99	-	-	AVG			
3	4875.036	54.83	0.11	54.94	74.00	-19.06	peak			
4	4875.036	50.62	0.11	50.73	54.00	-3.27	AVG			


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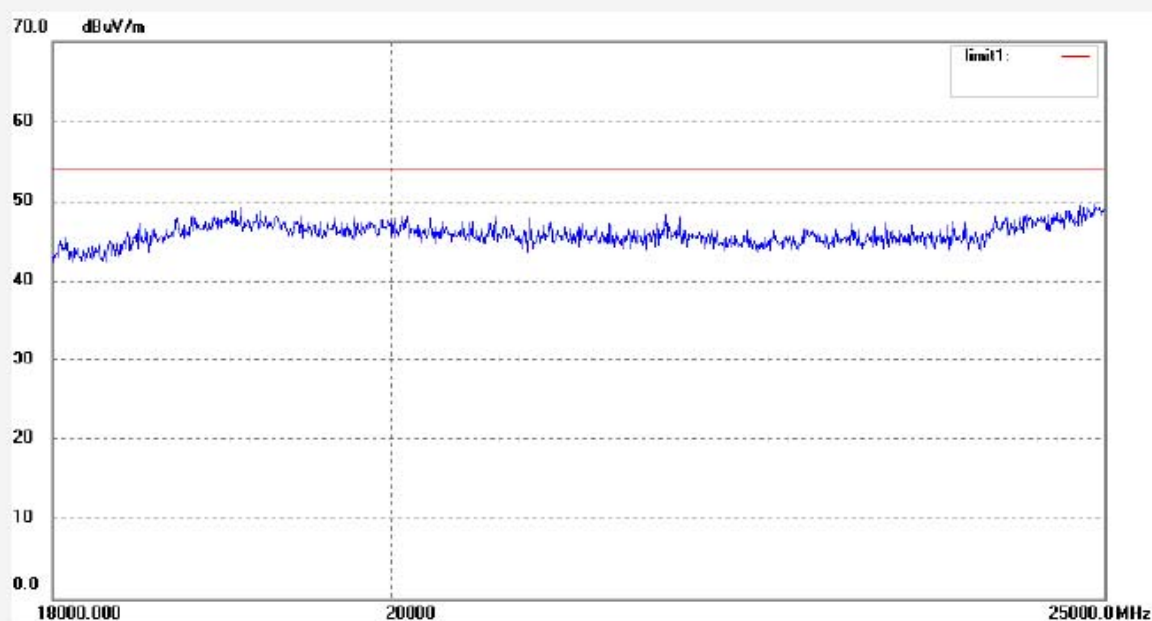
 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: RTTE #2316
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 50 %
 EUT: Mobile Ident IIIc
 Mode: TX 2437MHz
 Model: Mi3c

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 2009/07/15
 Time: 18:21:32
 Engineer Signature: Joe
 Distance: 3m

Manufacturer: Cogent System (ShenZhen) Inc

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RTTE #2315

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2437MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

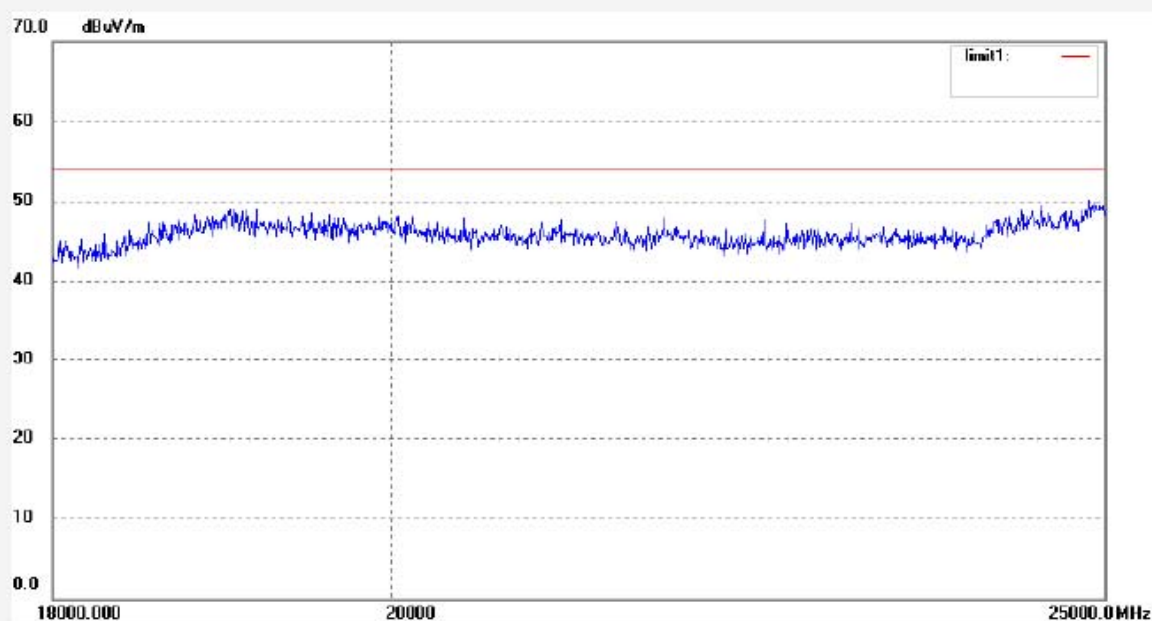
Date: 2009/07/15

Time: 18:16:17

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

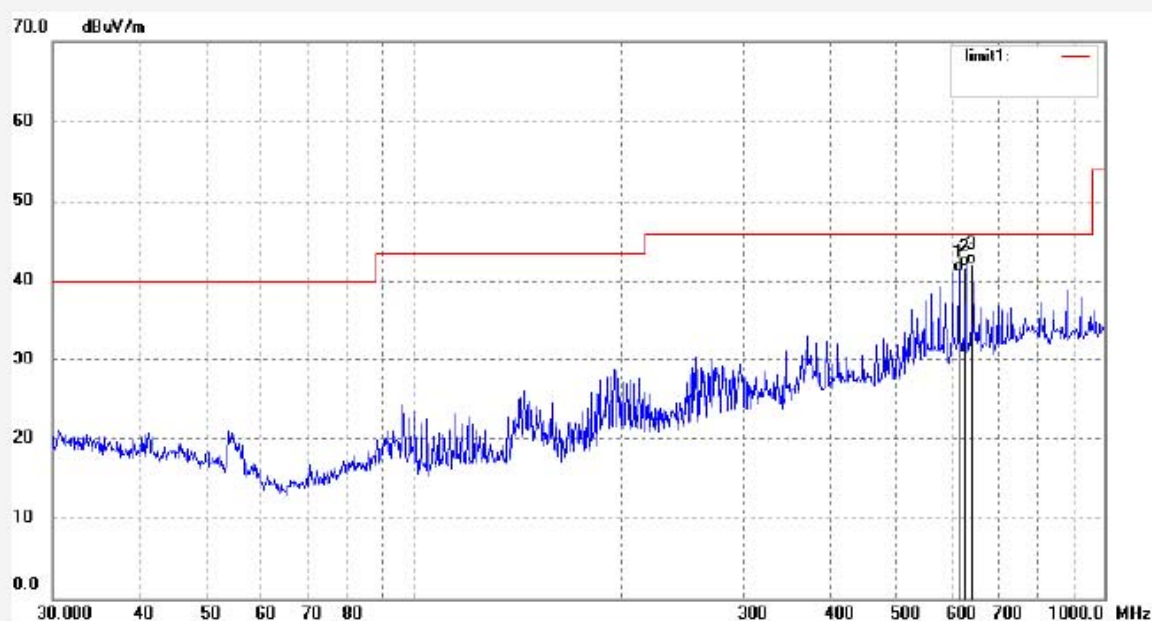
 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: RTTE #2339
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 50 %
 EUT: Mobile Ident IIIc
 Mode: TX 2462MHz
 Model: Mi3c

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 2009/07/15
 Time: 21:48:42
 Engineer Signature: Joe
 Distance: 3m

Manufacturer: Cogent System (ShenZhen) Inc

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	610.9758	15.28	25.78	41.06	46.00	-4.94	QP			
2	623.9739	15.77	26.05	41.82	46.00	-4.18	QP			
3	636.9760	15.96	26.08	42.04	46.00	-3.96	QP			


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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: RTTE #2340

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2462MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

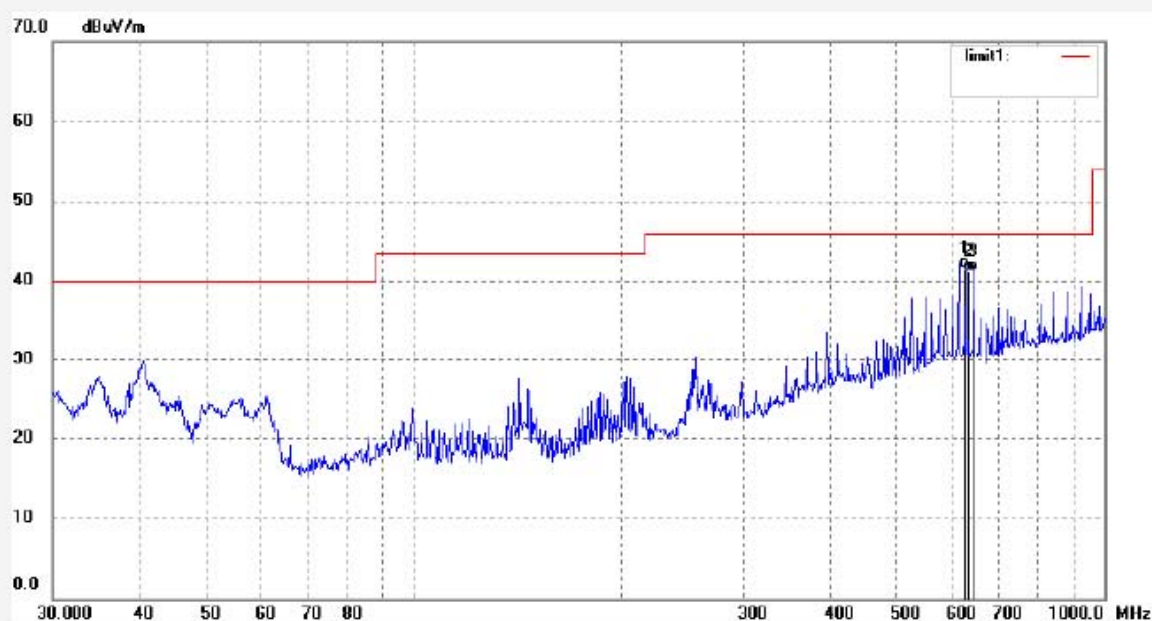
Date: 2009/07/15

Time: 21:52:45

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	623.9739	15.53	26.05	41.58	46.00	-4.42	QP			
2	636.9760	15.16	26.08	41.24	46.00	-4.76	QP			
3	649.9750	15.17	25.98	41.15	46.00	-4.85	QP			


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RTTE #2312

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2462MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Horizontal

Power Source: AC 120V/60Hz

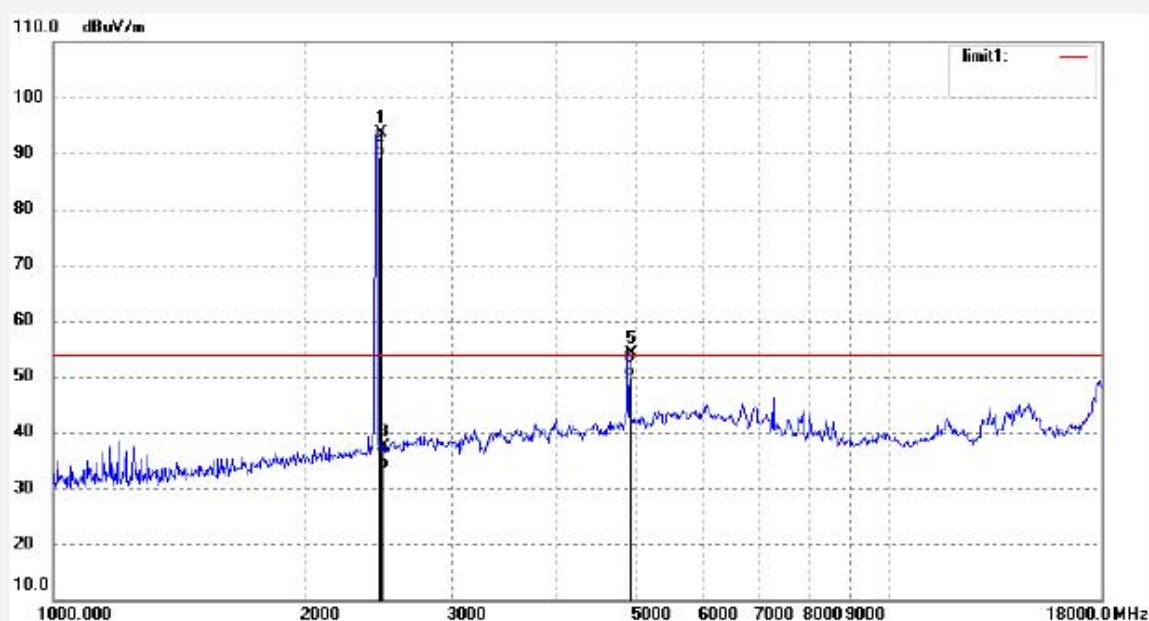
Date: 2009/07/15

Time: 17:41:08

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.611	100.88	-7.35	93.53	-	-	peak			
2	2462.611	96.65	-7.35	89.30	-	-	AVG			
3	2483.500	44.87	-7.37	37.50	74.00	-36.50	peak			
4	2483.500	40.66	-7.37	33.29	54.00	-20.71	AVG			
5	4924.965	53.85	0.34	54.19	74.00	-19.81	peak			
6	4924.965	49.64	0.34	49.98	54.00	-4.02	AVG			


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RTTE #2311

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2462MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

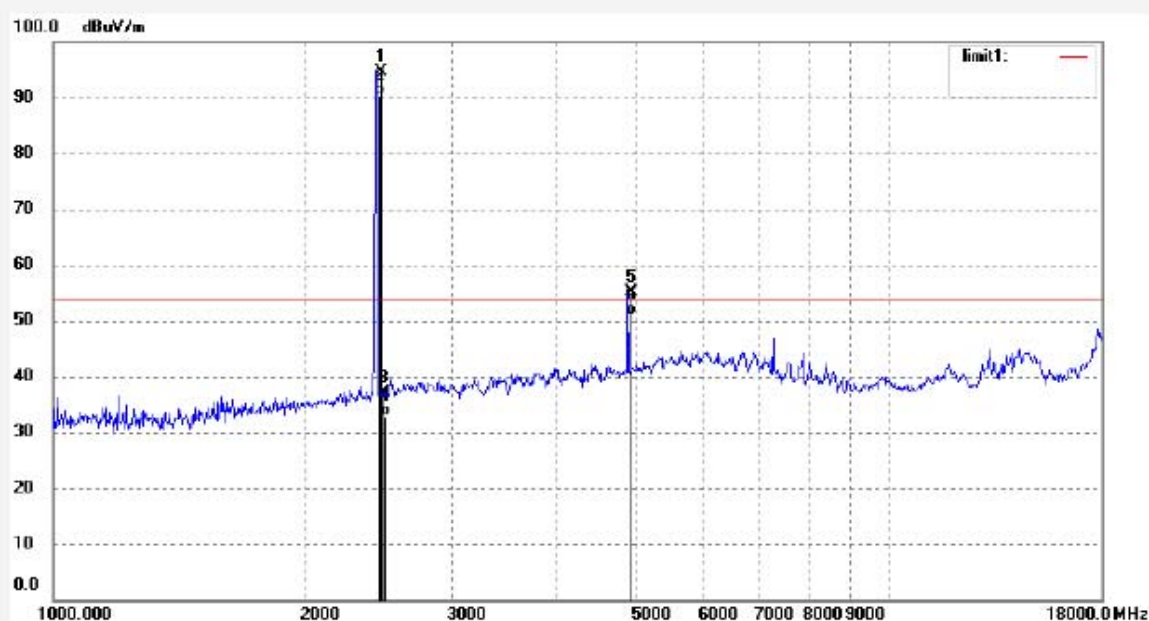
Date: 2009/07/15

Time: 17:30:18

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.611	101.95	-7.35	94.60	-	-	peak			
2	2462.611	97.72	-7.35	90.37	-	-	AVG			
3	2483.500	44.50	-7.37	37.13	74.00	-36.87	peak			
4	2483.500	40.28	-7.37	32.91	54.00	-21.09	AVG			
5	4924.965	54.79	0.34	55.13	74.00	-18.87	peak			
6	4924.965	50.56	0.34	50.90	54.00	-3.10	AVG			


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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RTTE #2317

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2462MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Horizontal

Power Source: AC 120V/60Hz

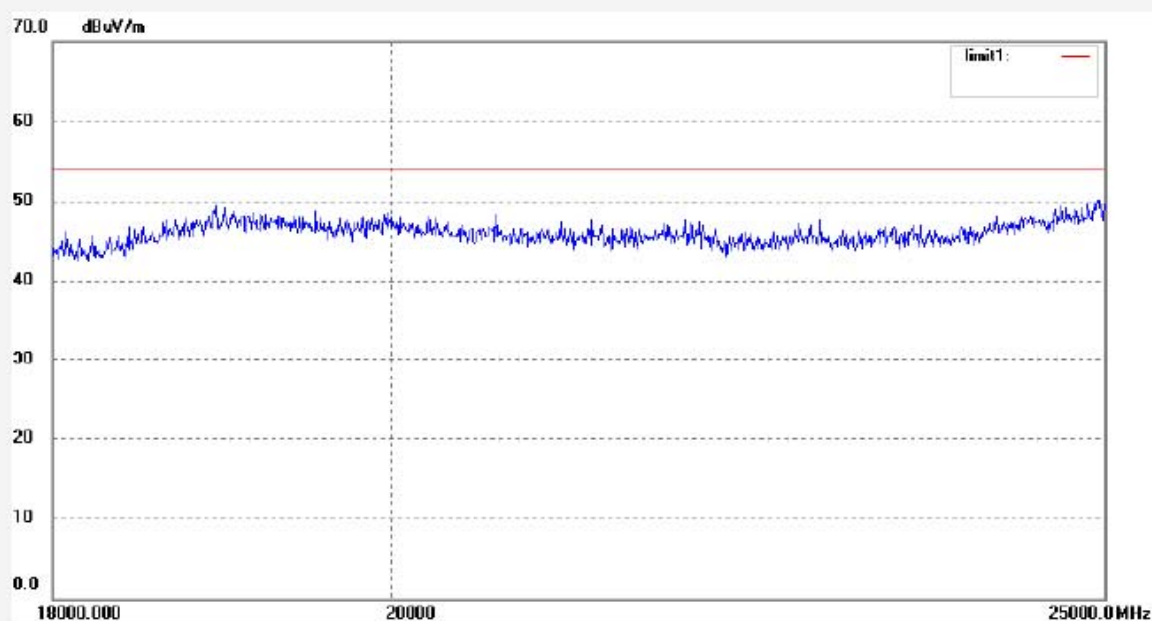
Date: 2009/07/15

Time: 18:28:40

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RTTE #2318

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Mobile Ident IIIc

Mode: TX 2462MHz

Model: Mi3c

Manufacturer: Cogent System (ShenZhen) Inc

Polarization: Vertical

Power Source: AC 120V/60Hz

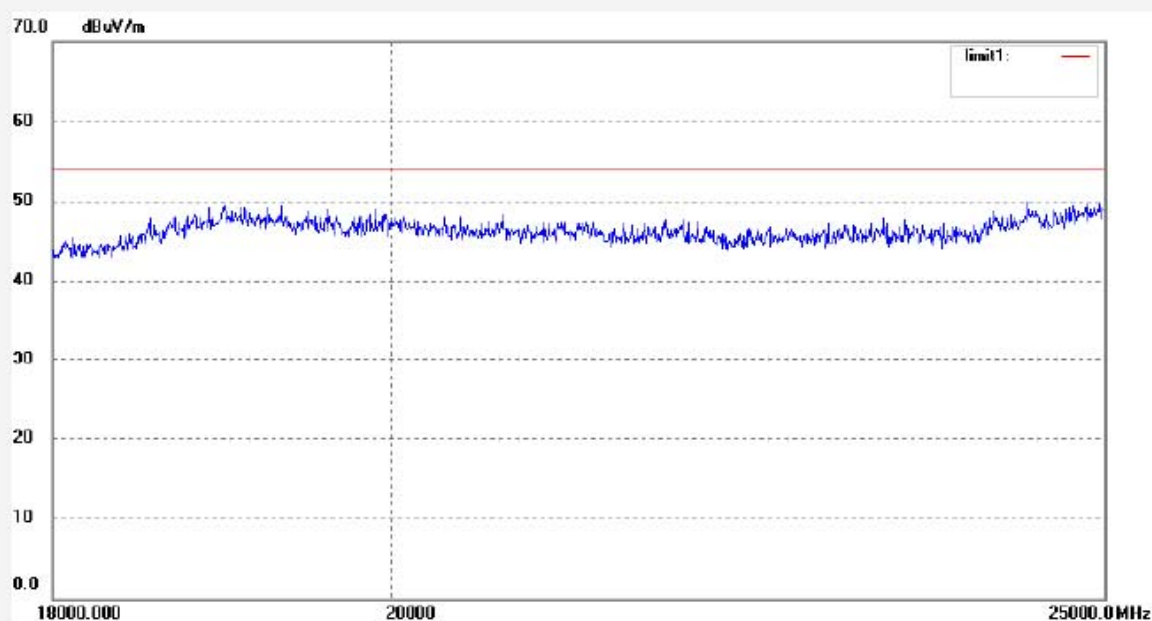
Date: 2009/07/15

Time: 18:34:23

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:091348 Report No.:ATE20091159



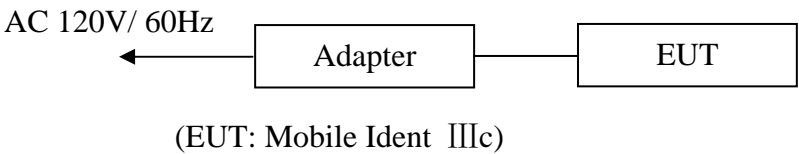
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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10.CONDUCTED EMISSION FOR FCC PART 15 SECTION

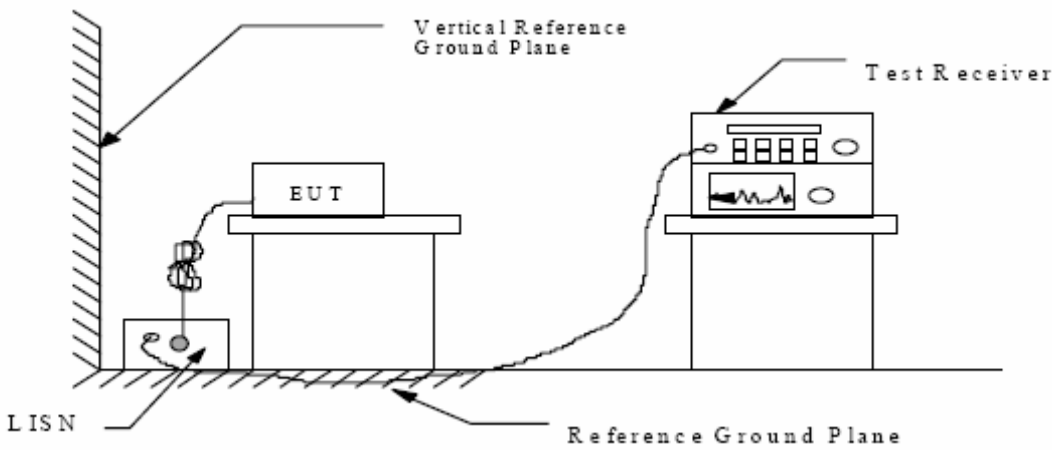
15.207(A)

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and simulators



10.1.2.Shielding Room Test Setup Diagram



(EUT: Mobile Ident IIIc)

10.2.The Emission Limit

10.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

10.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.3.1.Mobile Ident IIIc (EUT)

Model Number	:	Mi3c
Serial Number	:	N/A
Manufacturer	:	Cogent Systems Inc.

10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX mode measure it.

10.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

10.6.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	<u>July 15, 2009</u>	Temperature:	<u>25°C</u>
EUT:	<u>Mobile Ident IIIc</u>	Humidity:	<u>50%</u>
Model No.:	<u>Mi3c</u>	Power Supply:	<u>AC 120V/ 60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Joe</u>

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.168000	36.60	65	-28.5	QP	Neutral
0.276000	42.30	61	-18.6	QP	
0.433500	33.00	57	-24.2	QP	
0.195000	26.00	54	-27.8	AV	
0.276000	31.50	51	-19.4	AV	
0.393000	24.10	48	-23.9	AV	
0.159000	42.60	66	-22.9	QP	Live
0.276000	42.50	61	-18.4	QP	
0.384000	29.60	58	-28.6	QP	
0.280500	33.00	51	-17.8	AV	
0.393000	24.30	48	-23.7	AV	
0.474000	24.90	46	-21.5	AV	

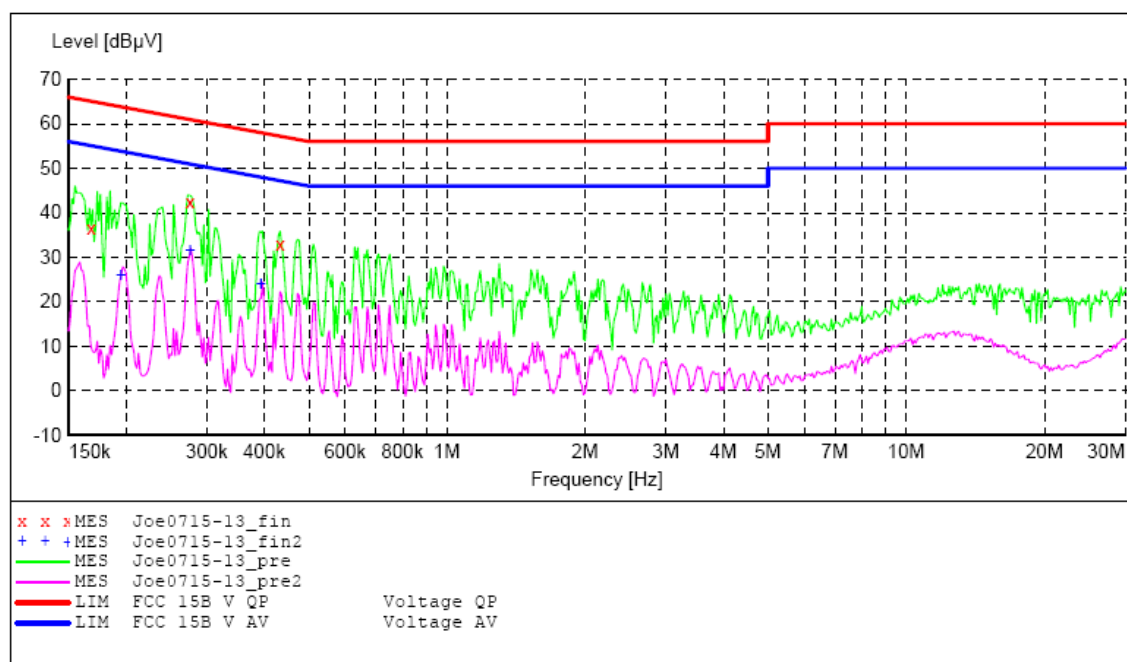
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART15B**

EUT: Mobile Ident IIIc M/N:Mi3c
 Manufacturer: Cogent Systems (ShenZhen) Inc
 Operating Condition: WI-FI
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Va 120V/60Hz
 Comment: Sample No.:091348 Report No.:ATE20091159
 Start of Test: 7/15/2009 / 1:03:55PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "Joe0715-13_fin"**

7/15/2009 1:06PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.168000	36.60	11.1	65	28.5	QP	N	GND
0.276000	42.30	11.5	61	18.6	QP	N	GND
0.433500	33.00	11.9	57	24.2	QP	N	GND

MEASUREMENT RESULT: "Joe0715-13_fin2"

7/15/2009 1:06PM

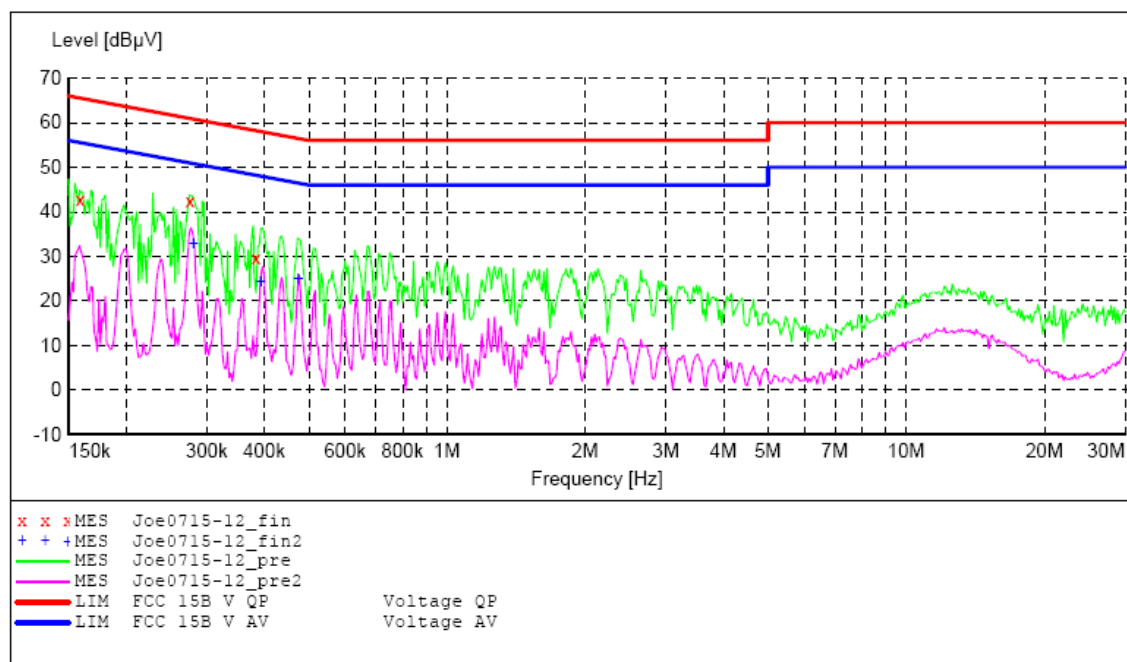
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	26.00	11.2	54	27.8	AV	N	GND
0.276000	31.50	11.5	51	19.4	AV	N	GND
0.393000	24.10	11.8	48	23.9	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART15B**

EUT: Mobile Ident IIIc M/N:Mi3c
 Manufacturer: Cogent Systems (ShenZhen) Inc
 Operating Condition: WI-FI
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Vb 120V/60Hz
 Comment: Sample No.:091348 Report No.:ATE20091159
 Start of Test: 7/15/2009 / 12:59:26PM

SCAN TABLE: "V 150K-30MHZ fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "Joe0715-12_fin"**

7/15/2009 1:03PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	42.60	11.0	66	22.9	QP	L1	GND
0.276000	42.50	11.5	61	18.4	QP	L1	GND
0.384000	29.60	11.8	58	28.6	QP	L1	GND

MEASUREMENT RESULT: "Joe0715-12_fin2"

7/15/2009 1:03PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.280500	33.00	11.5	51	17.8	AV	L1	GND
0.393000	24.30	11.8	48	23.7	AV	L1	GND
0.474000	24.90	12.0	46	21.5	AV	L1	GND

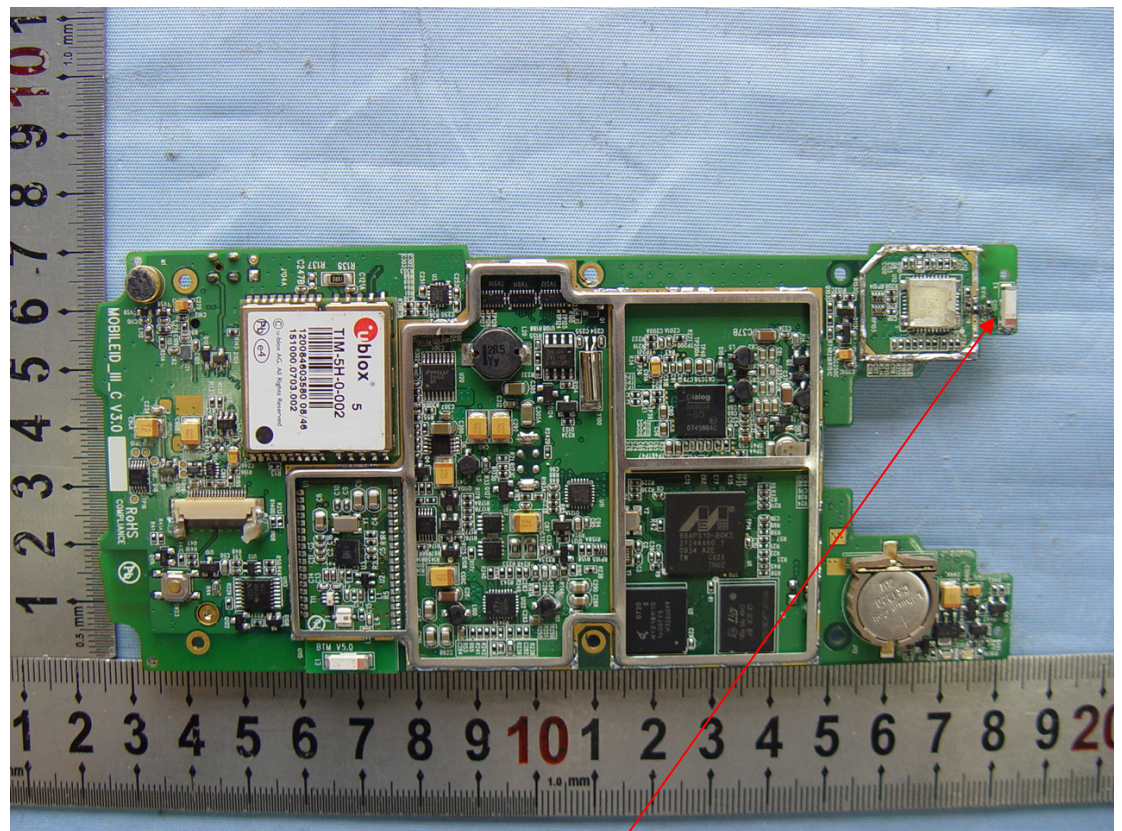
11.ANTENNA REQUIREMENT

11.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

11.2.Antenna Construction

The transmitter utilizes SMD chip antenna, no consideration of replacement. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna