Hame Technology Co.,Limited

3G Router

Model: 434T

August 08 2010 Report No.: 1005008 (This report supersedes NONE)



Modifications made to the product: None

This Test Report is Issued Under the Authority of: Jackson. chen **Andy Hao** Jackson Chen Compliance Engineer **Technical Manager**

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Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless ,Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom , Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB , NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom

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Executive Summary & EUT information

The purpose of this test programme was to demonstrate compliance of the Hame Technology Co., Limited, 3G Router, and model: 434T against the current Stipulated Standards. The 3G Router has demonstrated compliance with the FCC 47 CFR Part 2, FCC 47 CFR Part 22, FCC 47 CFR Part 24

EUT Information

EUT 3G Router has GSM850 and PCS1900 function. The Router has the access to

Description internet through dial-up with SIM card provided by ISP.

Model No 434T

Input Power AC 120V / 60Hz



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TECHNICAL DETAILS					
Purpose	Compliance testing of WIFI Module with stipulated standard				
Applicant / Client	Hame Technology Co.,Limited 5F,No.18 Gaoxin C .Ave.1,Hi-Tech Industrial Park,Nanshan District, Shenzhen China 518057				
Manufacturer	Hame Technology Co.,Limited 5F,No.18 Gaoxin C .Ave.1,Hi-Tech Industrial Park,Nanshan District, Shenzhen China 518057				
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email:info@siemic.com				
Test report reference number	1005008				
Date EUT received	July 21 2010				
Standard applied	FCC 47 CFR Part 2, FCC 47 CFR Part 22,FCC 47 CFR Part 24				
Dates of test (from – to)	July 22~28 2010				
No of Units:	#2				
Equipment Category:	DTS				
Trade Name:	Hame				
Model :	434T				
RF Operating Frequency (ies)	824.2MHz ~ 848.8MHz & 1850.2MHz~1909.8MHz				
Modulation :	GMSK / 8PSK / BPSK				
FCC ID:	YQR-434T				



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MODIFICATION

NONE

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TEST SUMMARY

The product was tested in accordance with the following specifications. All Testing has been performed according to below product classification:

PCB

Test Results Summary

Test Standard	Description	Pass / Fail
FCC 47 CFR Part 2, FCC 47 CFR Part 22,FCC 47 CFR Part 24		
2.1047 (d)	Modulation Characteristics	Pass
2.1046	Maximum Peak Output Power	Pass
22.913 (a)	Limit: max. 7 watts e.r.p peak power	
24.232(c)	E.I.R.P	Pass
2.1055	Frequency Stability AFC Freq. Error vs. Voltage	Pass
22.355	AFC Freq. Error vs. Temperature Limit: max. ±2.5ppm	
24.235		
2.1049 (h)	Occupied Bandwidth	Pass
24.238(b)		
22.917	Band Edge Measurements	Pass
24.238(b)		
2.1051	Conducted Spurious Emissions	Pass
22.917		
24.238		
2.1053	Radiated Spurious Emissions	Pass
22.917		
24.238		

FCC 47 CFR Part 2, FCC 47 CFR Part 22, FCC 47 CFR Part 24

PS: Preliminary AC line and radiated emissions testing has been performed on all models, only worst case test result is presented in this test report.

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MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 <u>OUTPUT POWER MEASUREMENT</u>

TEST RESULTS

1. EUT was working normal during the test

2. Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

3. All required parameter have been checked and adjusted

4. Test date: July 22~28 2010 Tested By: Andy Hao

Standard Requirement(s): Part 2.1046

Procedures:

- 1. Connect the transmitter port to the base station
- 2.Set EUT at maximum power through base station
- 3. Selet low, middle and high channels for each band and different modulation

Test result: Pass

1 433					
GSM Band					
Modes	Channel	Frequency (MHz)	Peak Conducted power	Peak Conducted power	
Widdes	Low	824.2	(dBm) 32.00	(Watts) 1.58	
GSM850(GSM)	Mid	836.6	32.10	1.62	
GSIVIOSO(GSIVI)	High	848.8	32.20	1.65	

GSM Band					
Modes	Channel	Frequency (MHz)	RMS Conducted power (dBm)	RMS Conducted power (Watts)	
	Low	824.2	31.7	1.48	
GSM850(GSM)	Mid	836.6	31.8	1.51	
GSIVIO30(GSIVI)	High	848.8	31.7	1.48	

GPRS					
Modes	Channel	Frequency (MHz)	Peak Conducted power (dBm)	Peak Conducted power (Watts)	
	Low	824.2	31.9	1.55	
GPRS (UP-LINK	Mid	836.6	32.0	1.58	
WITH 1 TIME SLOT)	High	848.8	32.0	1.58	



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GPRS					
Modes	Channel	Frequency (MHz)	RMS Conducted power (dBm)	RMS Conducted power (Watts)	
	Low	824.2	31.6	1.45	
GPRS (UP-LINK	Mid	836.6	31.9	1.55	
WITH 1 TIME SLOT)	High	848.8	31.9	1.55	

E-GPRS					
		Frequency	Peak Conducted	Peak Conducted	
Modes	Channel	(MHz)	power (dBm)	power (Watts)	
	Low	824.2	30.1	1.02	
E-GPRS (UP-LINK	Mid	836.6	30.2	1.05	
WITH 1 TIME SLOT)	High	848.8	30.5	1.12	

E-GPRS					
Modes	Channel	Frequency (MHz)	RMS Conducted power (dBm)	RMS Conducted power (Watts)	
	Low	824.2	29.8	0.96	
E-GPRS (UP-LINK	Mid	836.6	29.9	0.98	
WITH 1 TIME SLOT)	High	848.8	30.2	1.05	

GSM Band					
Modes	Channel	Frequency (MHz)	Peak Conducted power (dBm)	Peak Conducted power (Watts)	
PCS 1900	Low Mid	1850.2 1880.0	29.70 29.80	0.93 0.96	
	High	1909.8	29.90	0.98	

GSM Band					
Channel Frequency RMS RMS (MHz) Conducted Conducted					
Modes			power (dBm)	power (Watts)	
	Low	1850.2	29.50	0.89	
PCS 1900	Mid	1880.0	29.50	0.89	
	High	1909.8	29.70	0.93	



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GPRS				
	Channel	Frequency (MHz)	Peak Conducted	Peak Conducted
Modes			power (dBm)	power (Watts)
	Low	1850.2	29.6	0.91
GPRS (UP-LINK	Mid	1880.0	29.7	0.93
WITH 1 TIME SLOT)	High	1909.8	29.8	0.96

GPRS				
Channel Frequency RMS RMS (MHz) Conducted Conducted				
Modes		, ,	power (dBm)	power (Watts)
	Low	1850.2	29.4	0.87
GPRS (UP-LINK	Mid	1880.0	29.5	0.89
WITH 1 TIME SLOT)	High	1909.8	29.6	0.91

E-GPRS				
Modes	Channel	Frequency (MHz)	Peak Conducted power (dBm)	Peak Conducted power (Watts)
	Low	1850.2	29.2	0.86
E-GPRS (UP-LINK	Mid	1880.0	29.2	0.83
WITH 1 TIME SLOT)	High	1909.8	29.4	0.87

E-GPRS				
Modes	Channel	Frequency (MHz)	RMS Conducted power (dBm)	RMS Conducted power (Watts)
	Low	1850.2	25.6	0.36
E-GPRS (UP-LINK	Mid	1880.0	25.7	0.37
WITH 1 TIME SLOT)	High	1909.8	25.8	0.38

EIRP Power Test Result:Pass

Standard Requirement(s): Part 22.913 (a) and 24.232(c)

1. EUT was working normal during the test

2. Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

3. All required parameter have been checked and adjusted

4. Test date: July 22~28 2010 Tested By: Andy Wang

Procedures:

- 1. The EUT was placed on a turntable with 1.0 meter height in a fully anechoic chamber.
- 2. The EUT was set at 1.2 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 4. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 5. Taking the record of maximum ERP/EIRP.
- 6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. The conducted power at the terminal of the dipole antenna is measured.
- 8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 9. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AFEs = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna

GSM Band ERP Power						
Modes	Channel	Frequency (MHz)	Peak Output power (dBm)	Peak Output power (Watts)		
	Low	824.2	29.7	0.94		
GSM850	Mid	836.6	30.2	1.04		
GSIVIOSO	High	848.8	30.2	1.04		

GPRS ERP Power					
Channel Frequency Output Output power (MHz) power (dBm) (Watts					
	Low	824.2	30.0	1.01	
GPRS (UP-LINK	Mid	836.6	30.1	1.03	
WITH 1 TIME SLOT)	High	848.8	30.1	1.03	

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E-GPRS ERP Power					
Modes	Channel	Frequency (MHz)	Peak Output power (dBm)	Peak Output power (Watts)	
	Low	824.2	28.0	0.64	
E-GPRS (UP-LINK	Mid	836.6	27.9	0.62	
WITH 1 TIME SLOT)	High	848.8	27.9	0.62	

E.I.R.P Power					
Modes	Channel	Frequency (MHz)	Peak Output power (dBm)	Peak Output power (Watts)	
PCS 1900	Low Mid	1850.2 1880.0	32.7 32.2	0.19 0.17	
1 00 1300	High	1909.8	32.6	0.17	

GPRS E.I.R.P Power				
Modes	Channel	Frequency (MHz)	Peak Output power (dBm)	Peak Output power (Watts)
	Low	1850.2	32.6	0.18
GPRS (UP-LINK	Mid	1880.0	32.2	0.17
WITH 1 TIME SLOT)	High	1909.8	32.5	0.18

E-GPRS E.I.R.P Power				
Modes	Channel	Frequency (MHz)	Peak Output power (dBm)	Peak Output power (Watts)
E 0000 (UD LINK	Low	1850.2	32.5	0.18
E-GPRS (UP-LINK WITH 1 TIME SLOT)	Mid High	1880.0 1909.8	32.1 32.4	0.16 0.17

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5.2 FREQUENCY STABILITY MEASUREMENT

EUT was working normal during the test

2. Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

3. All required parameter have been checked and adjusted

4. Test date : July 22~28 2010 Tested By : Andy Wang

Requirement: Part2.1055, 22.355, 24.235

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

Procedures:

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
- 4. If the EUT can not be turned on at -30°C, the testing lowest temperature will be raised in 10°C step until the EUT can be turned on
- 5. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 6. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 7. The variation in frequency was measured for the worst case.

Test Result: Pass

Mode: AFC FREQUENCY ERROR vs. VOLTAGE

GSM Band	GSM 850		Channel	190	
Temperature(°C)	Voltage	Freq.Dev(Hz)	Deviation(ppm)	Limit(ppm)	Result
Named	138	13	0.02	2.5	
Normal	102	12	0.01	2.5	PASS

GSM Band	PCS 1900		Channel	661	
Temperature(°C)	Voltage	Freq.Dev(Hz)	Deviation(ppm)	Limit(ppm)	Result
Normal	138	13	0.02	2.5	
	102	12	0.01	2.5	PASS

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${\bf Mode: AFC\ FREQUENCY\ ERROR\ vs.\ TEMP}.$

Band	GSM 850		Channel	190	
Temperature (°C)	Voltage	Freq.Dev(Hz)	Deviation(ppm)	Limit(ppm)	Result
-10	120V	17	0.02	2.5	
0	120V	16	0.02	2.5	
10	120V	18	0.02	2.5	
20	120V	17	0.02	2.5	
30	120V	15	0.02	2.5	PASS
40	120V	14	0.02	2.5	
50	120V	15	0.02	2.5	

Band	PCS 1900		Channel	661	
Temperature (°C)	Voltage	Freq.Dev(Hz)	Deviation(ppm)	Limit(ppm)	Result
-10	120V	17	0.02	2.5	
0	120V	16	0.02	2.5	
10	120V	18	0.02	2.5	
20	120V	17	0.02	2.5	
30	120V	15	0.02	2.5	PASS
40	120V	14	0.02	2.5	
50	120V	15	0.02	2.5	

5.3 Occupied Bandwidth

1. EUT was working normal during the test

2. Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

3. All required parameter have been checked and adjusted

4. Test date: July 22~28 2010 Tested By: Andy Wang

Requirement(s):Part 2.1049, 22.917(a), 24.238(a)

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

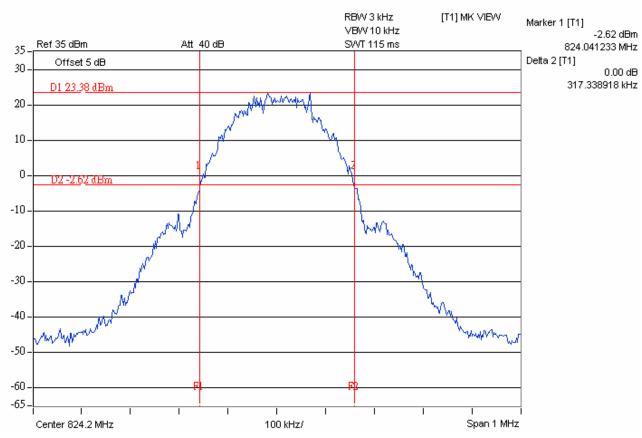
Procedures:

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The 99% and 26 dB occupied bandwidth (BW) of the low, middle, high channel (19000MHz: 512, 661 and 810 / 9262, 9400 and 9538: low, middle and high operational frequency range) (850MHz: 128, 190 and 251 / 4132, 4182 and 4233: low, middle and high operational frequency range) for the highest RF powers were measured.

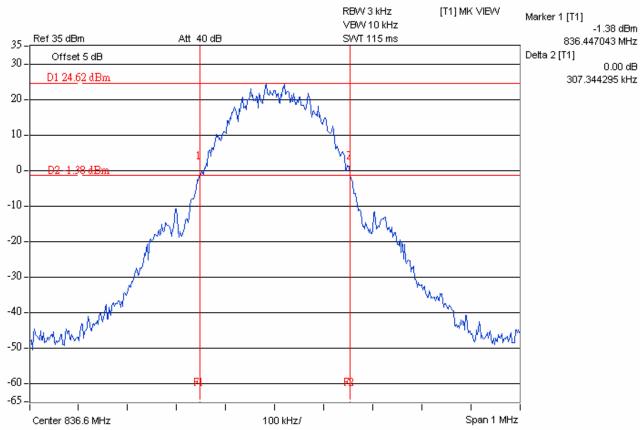
Test result: Pass

Mode: GSM850

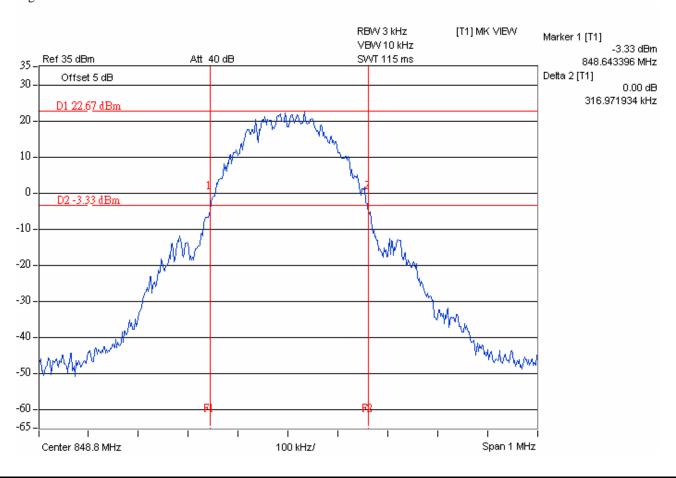
Low channel





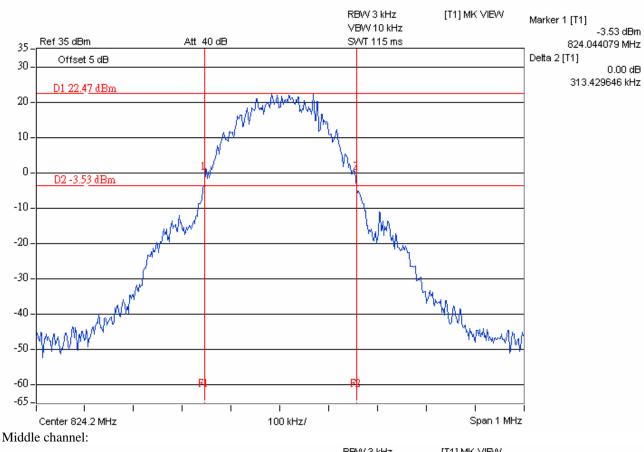


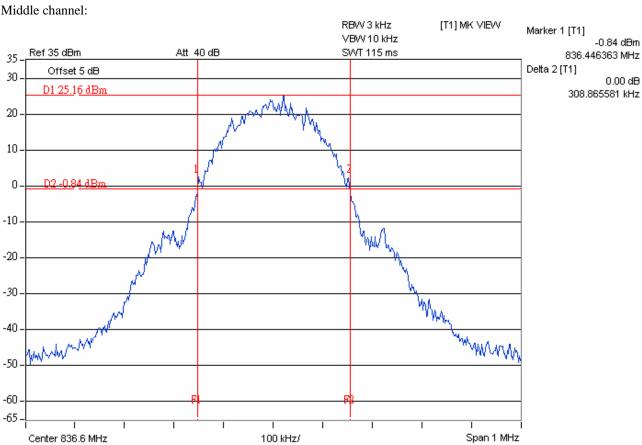


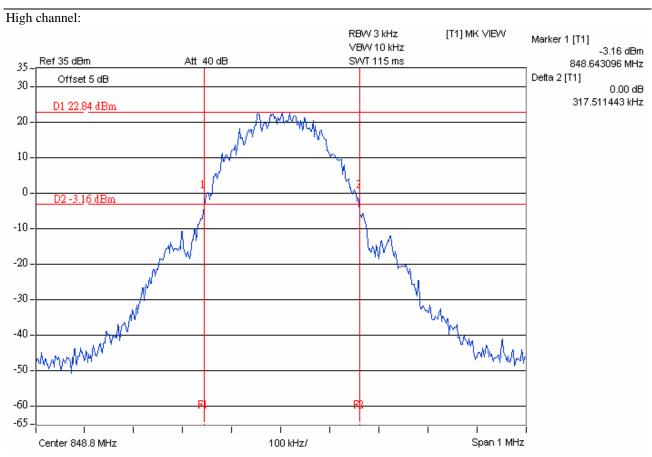


MODE GPRS850:

Low channel:

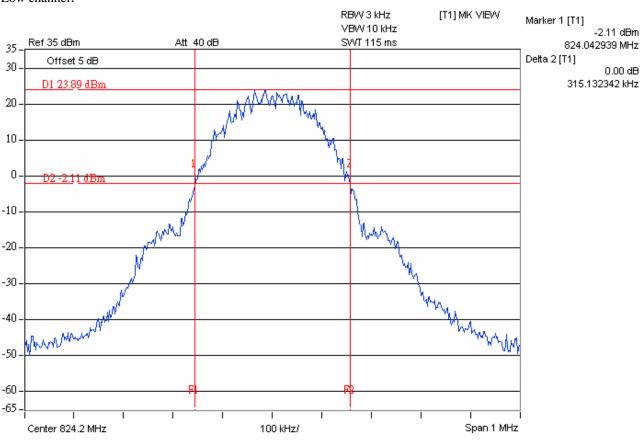


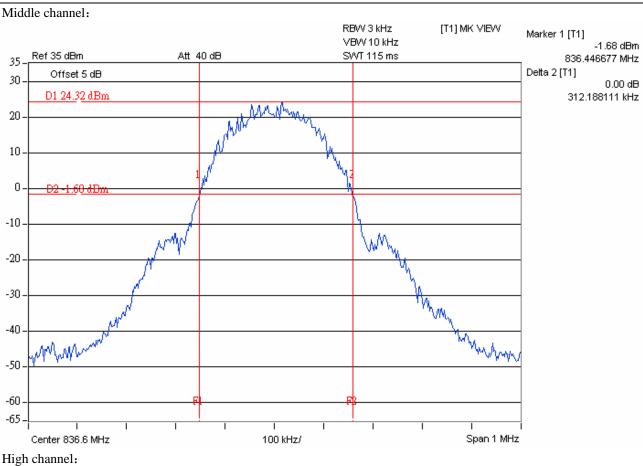


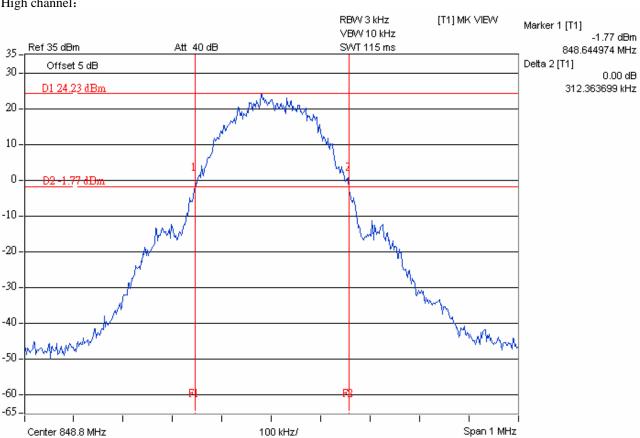


MODE E-GPRS850:

Low channel:

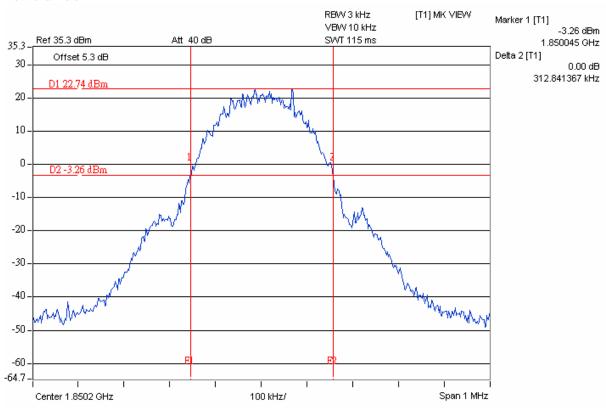




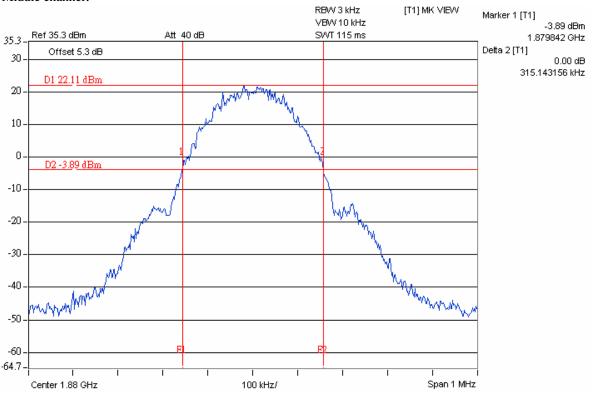


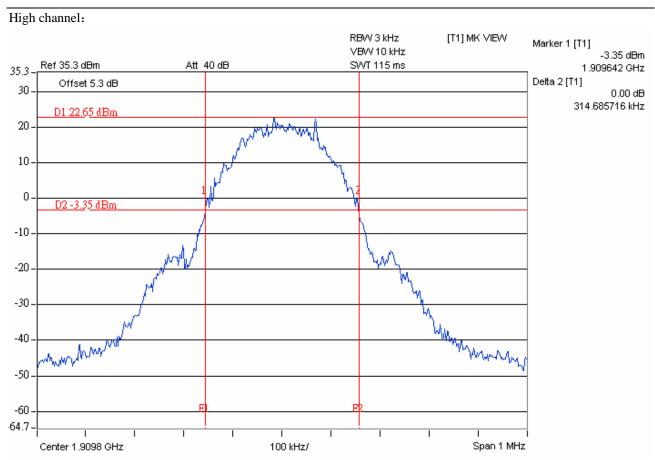
MODE PCS 1900:

Low channel:



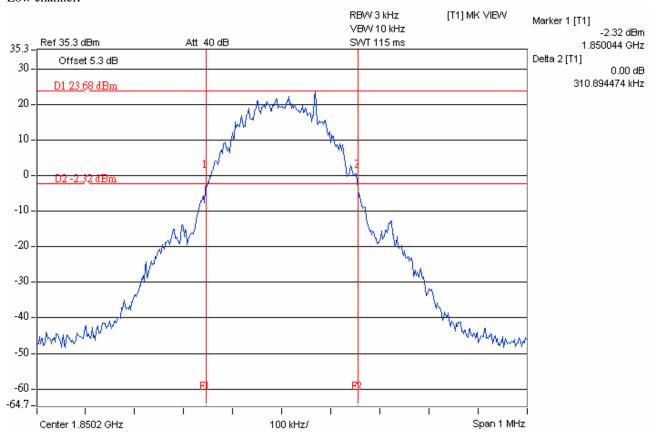
Middle channel:

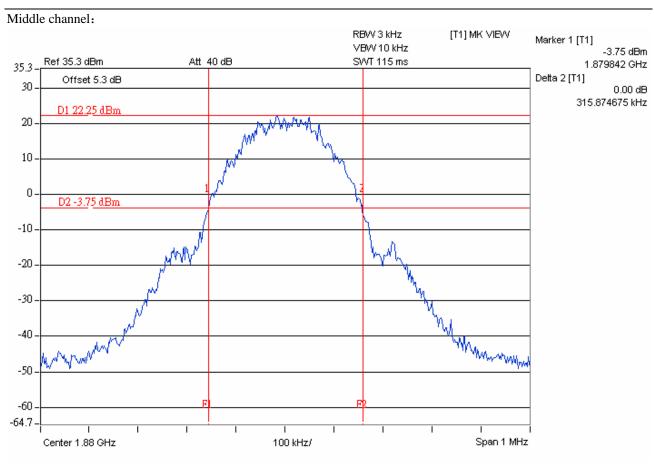




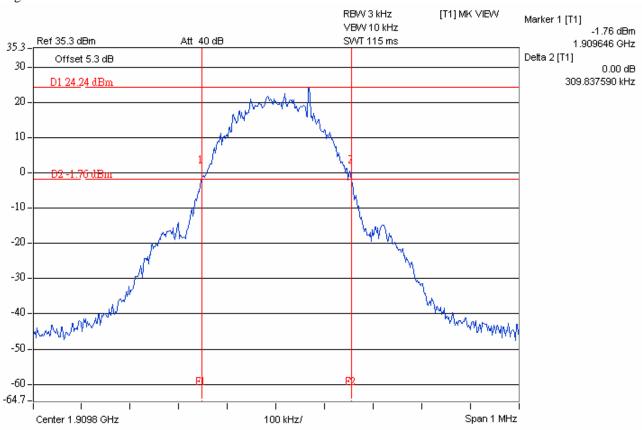
MODE GPRS1900:

Low channel:



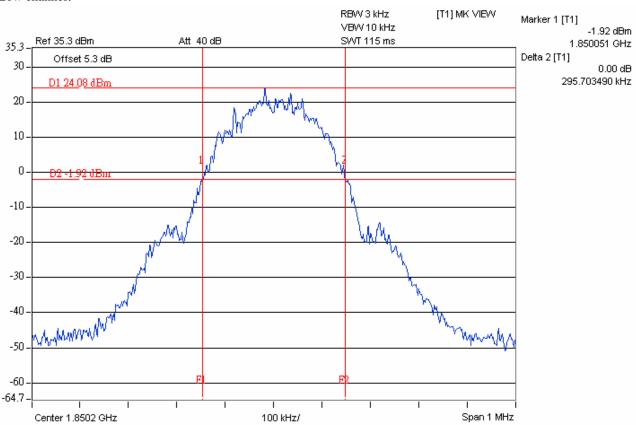


High channel:

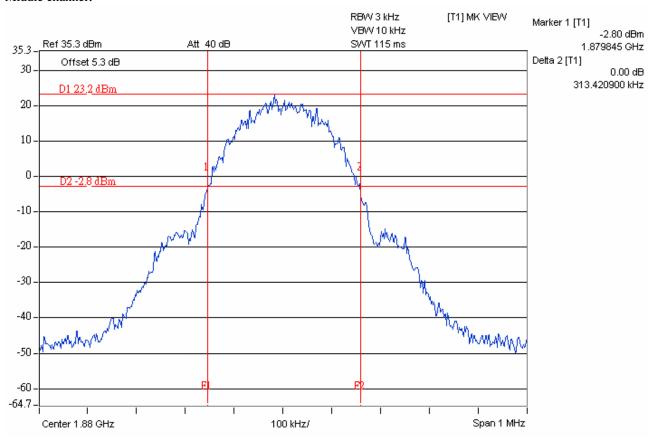


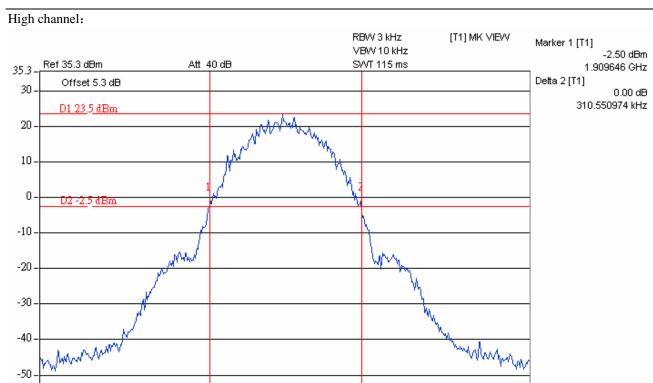
MODE E-GPRS1900:

Low channel:



Middle channel:





100 kHz/

Span 1 MHz

-60 **-**-64.7 **-**

Center 1.9098 GHz

5.4 Band Edge

1. EUT was working normal during the test

2. Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

3. All required parameter have been checked and adjusted

4. Test date : July 22~28 2010 Tested By : Andy Wang

Requirement(s):Part2.1051, 22.917(a), 24.238(a)

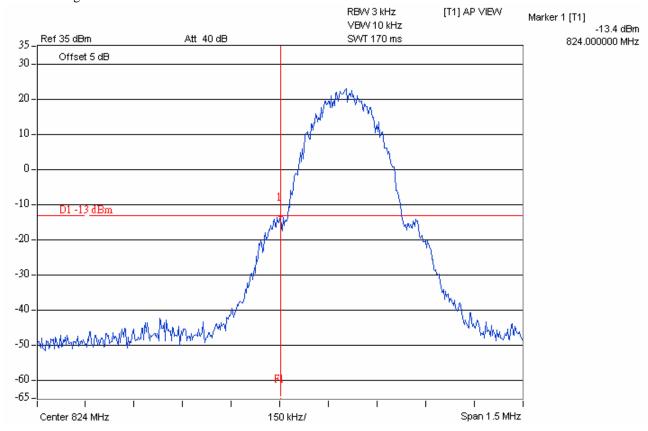
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

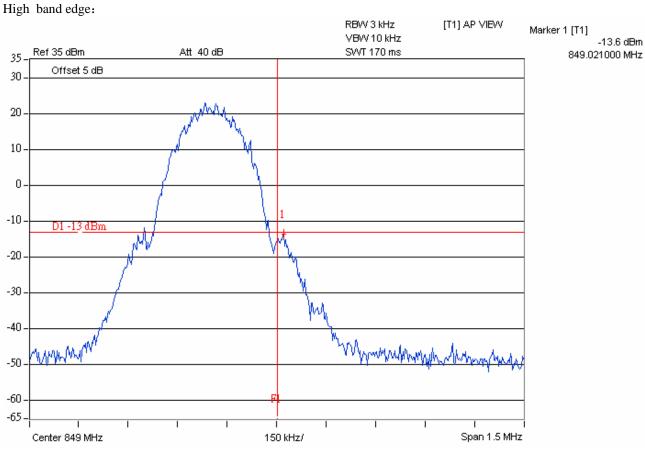
Procedures:

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

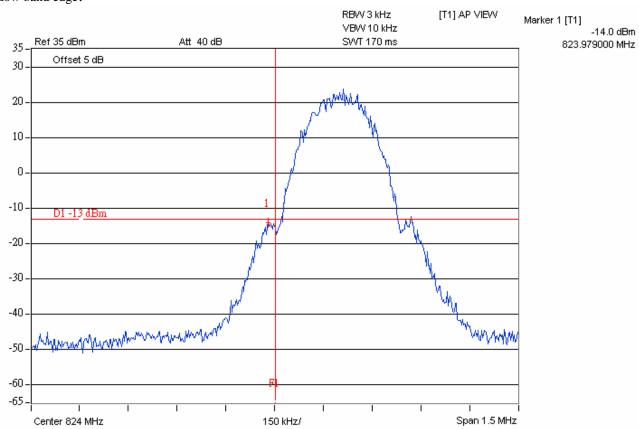
Test result: Pass

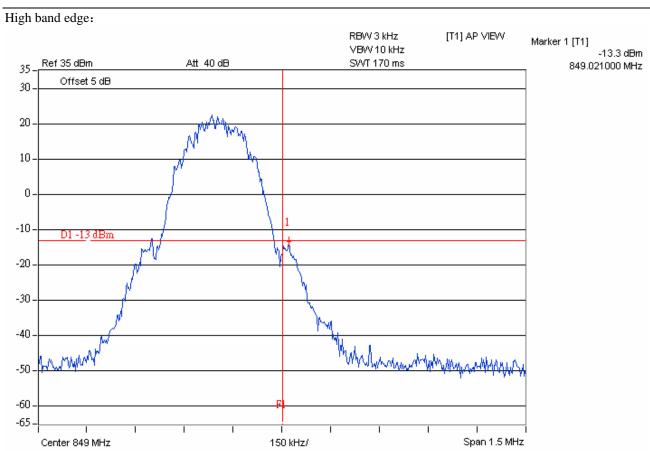
MODE GSM850:



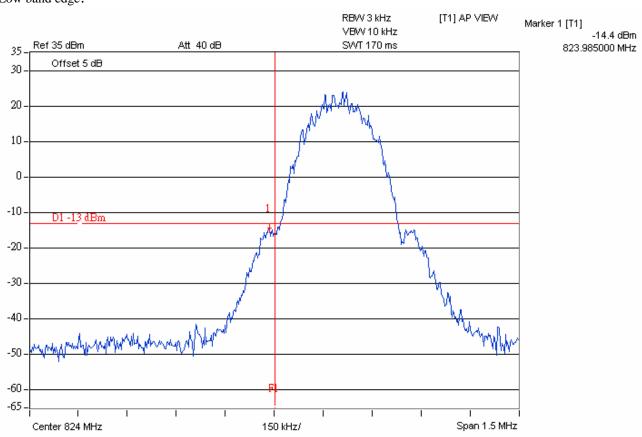


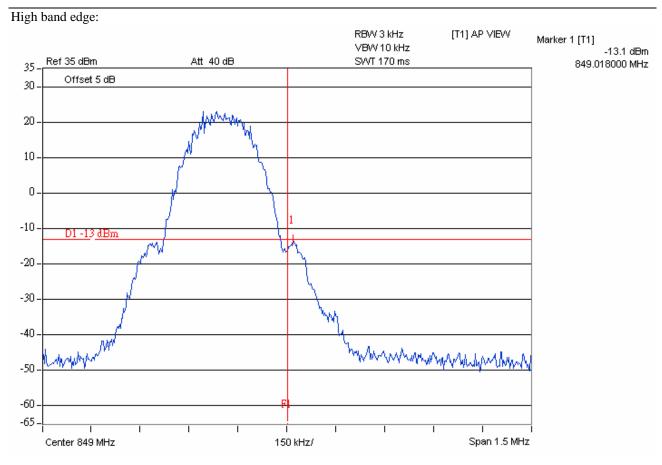
MODE GPRS850:



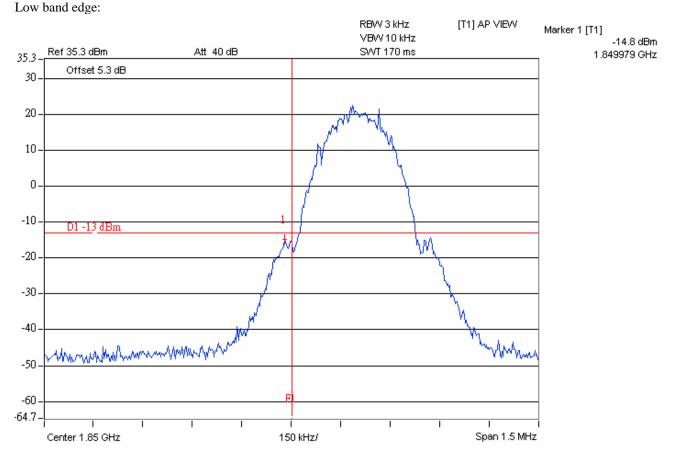


MODE E-GPRS850:

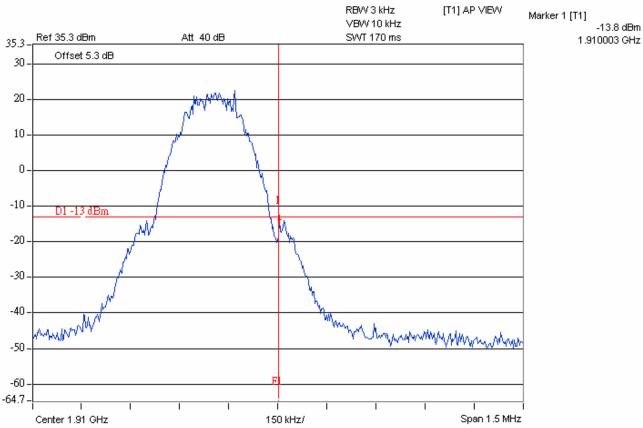




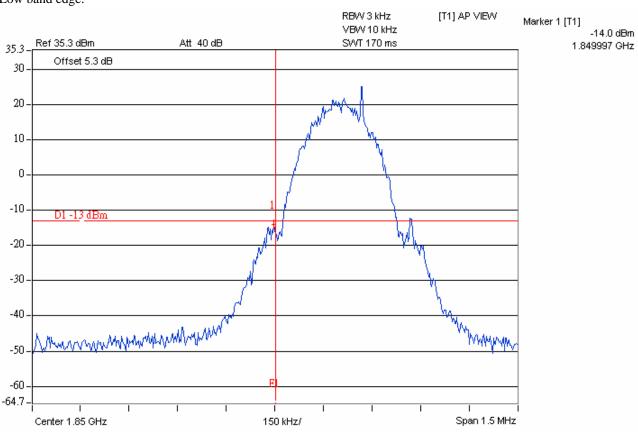
MODE PCS 1900:



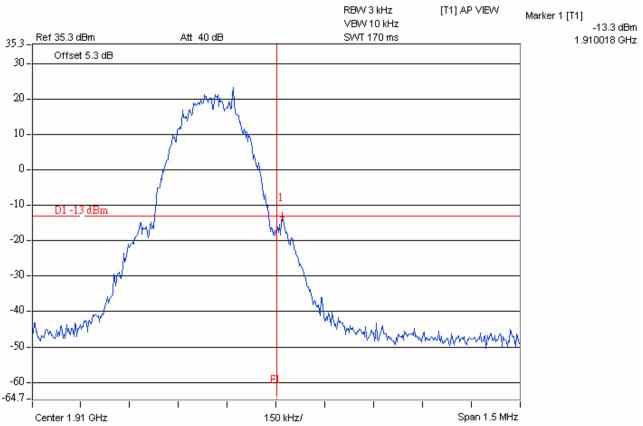




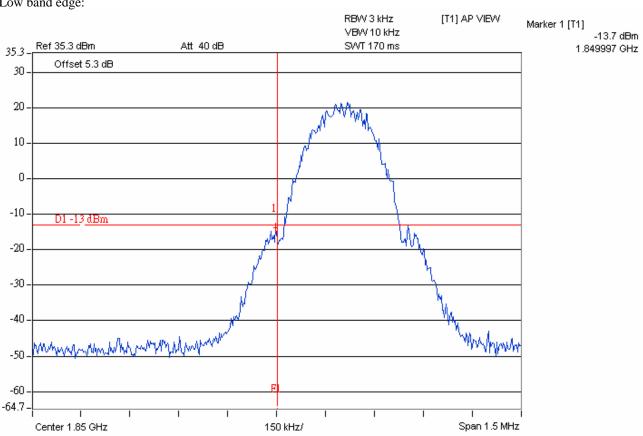
MODE GPRS1900:



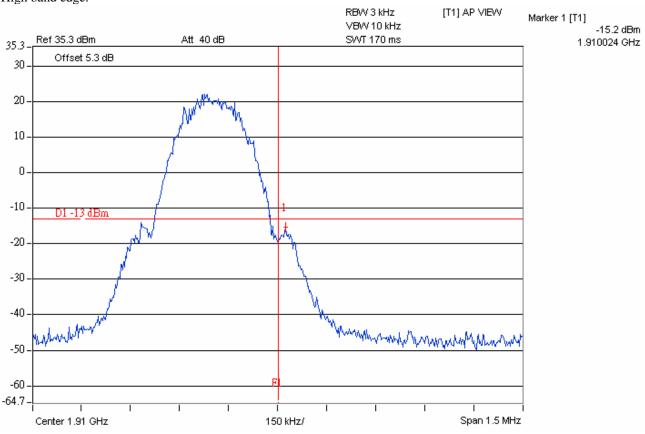




MODE E-GPRS1900







5.5 Conducted Spurious Emissions

EUT was working normal during the test

2. Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

3. All required parameter have been checked and adjusted

4. Test date : July 22~28 2010 Tested By : Andy Wang

Requirement: Part2.1051, 22.917(a), 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

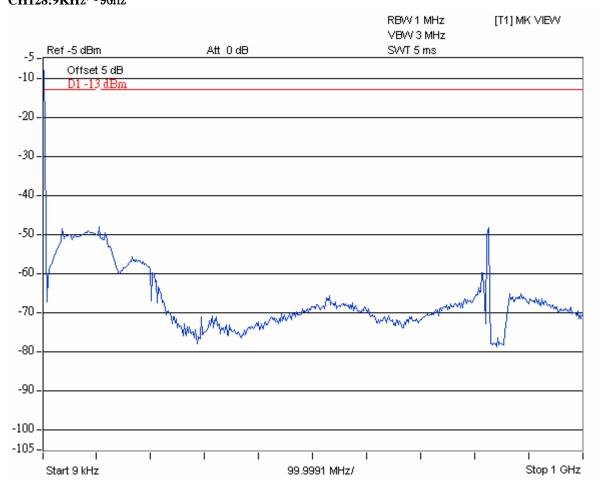
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

Procedures:

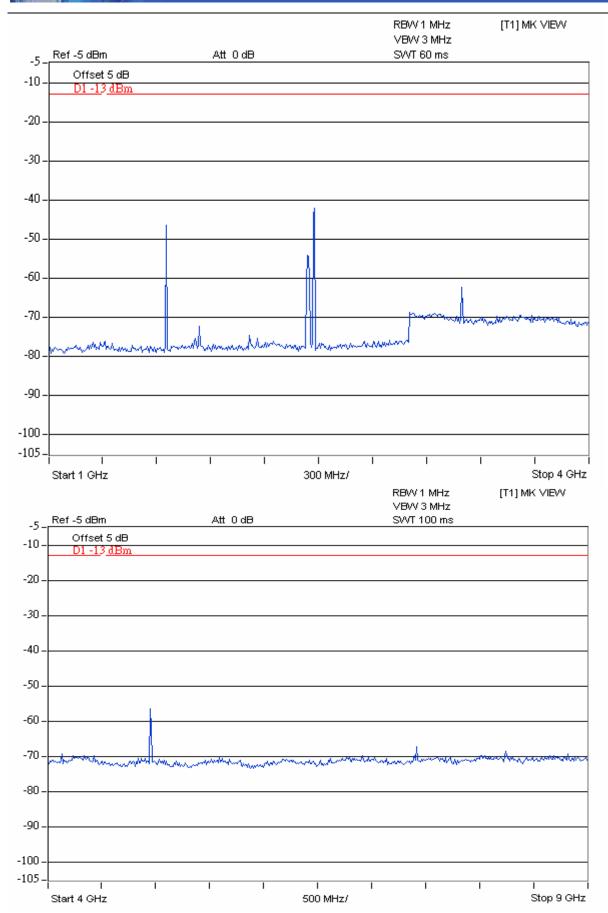
- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The middle channel for the highest RF power within the transmitting frequency was measured.
- 3. The conducted spurious emission for the whole frequency range was taken. All measurements were done at 3 channels, GSM850:128, 190 and 251 / WCDMA850:4132, 4182 and 4233(low, middle and high operational frequency range.)

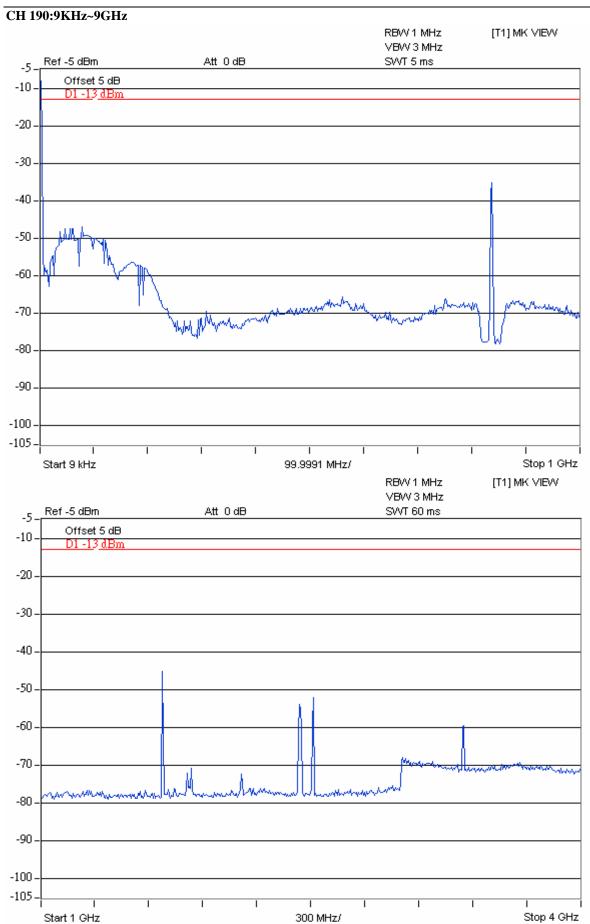
Test Mode GSM850 CH128:9KHz~9GHz

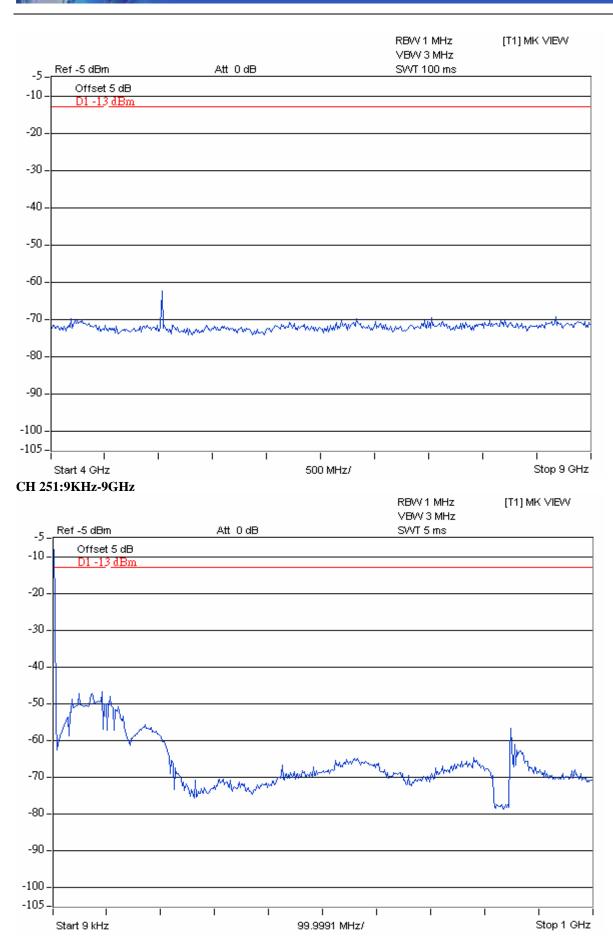
Test Result: Pass



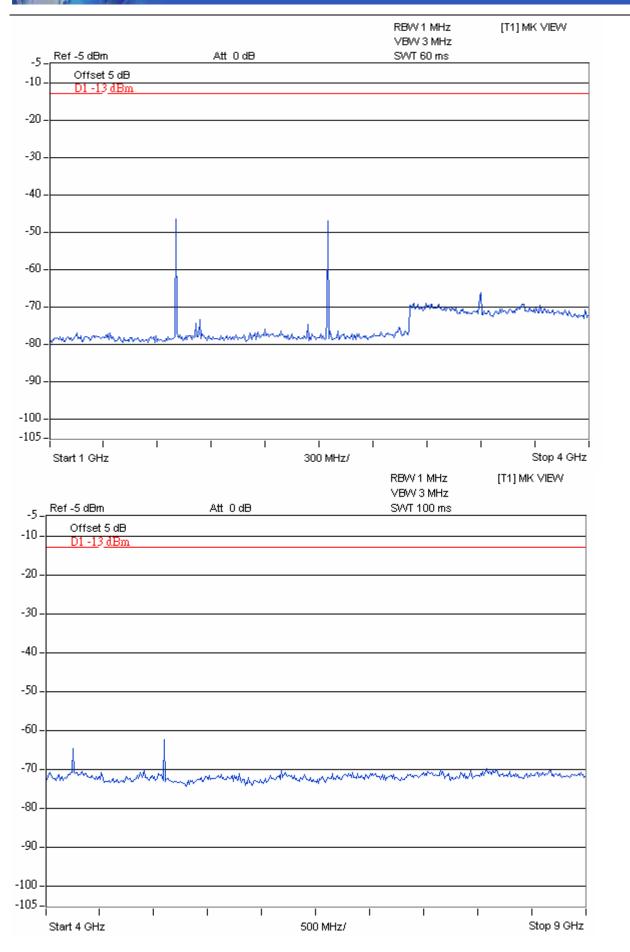
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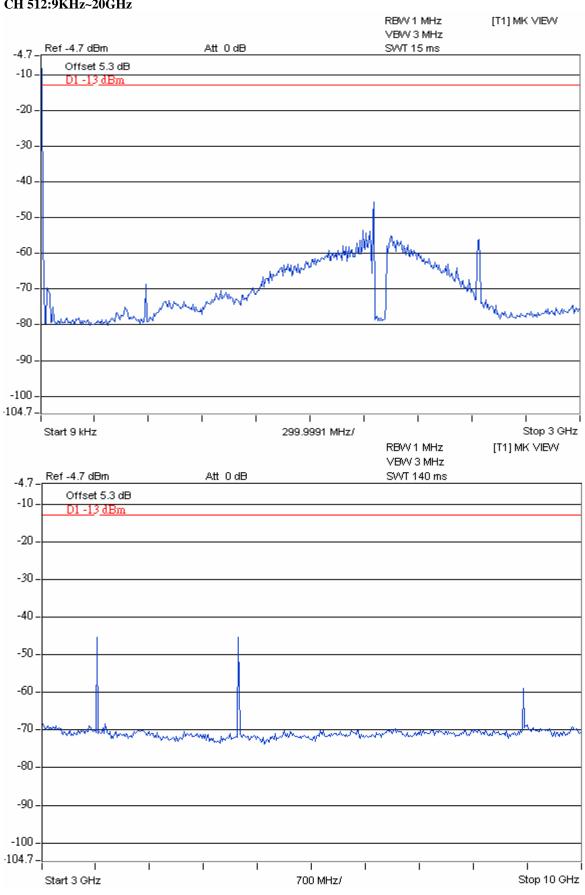




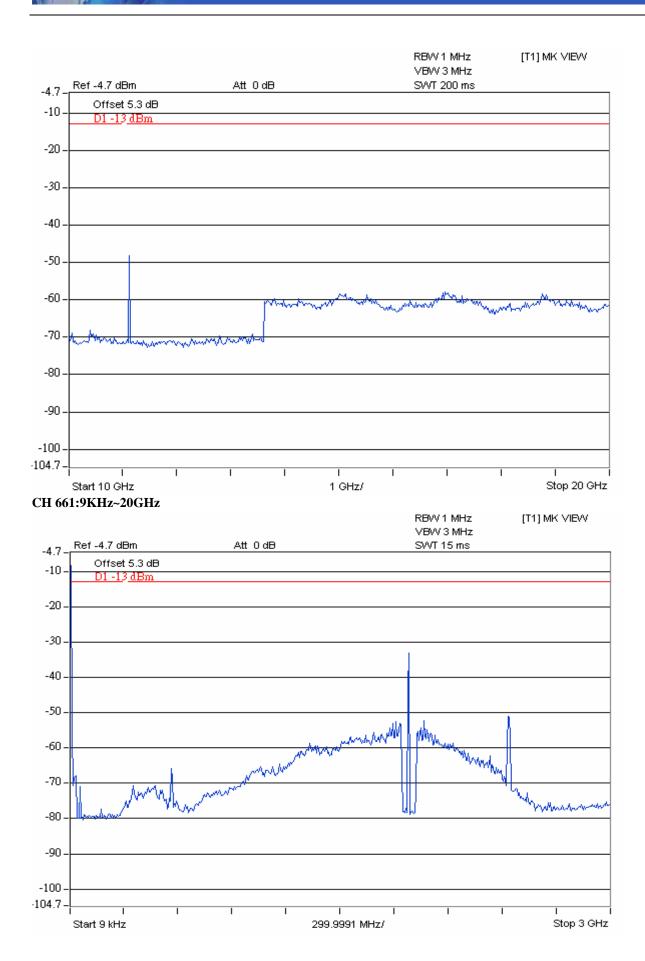
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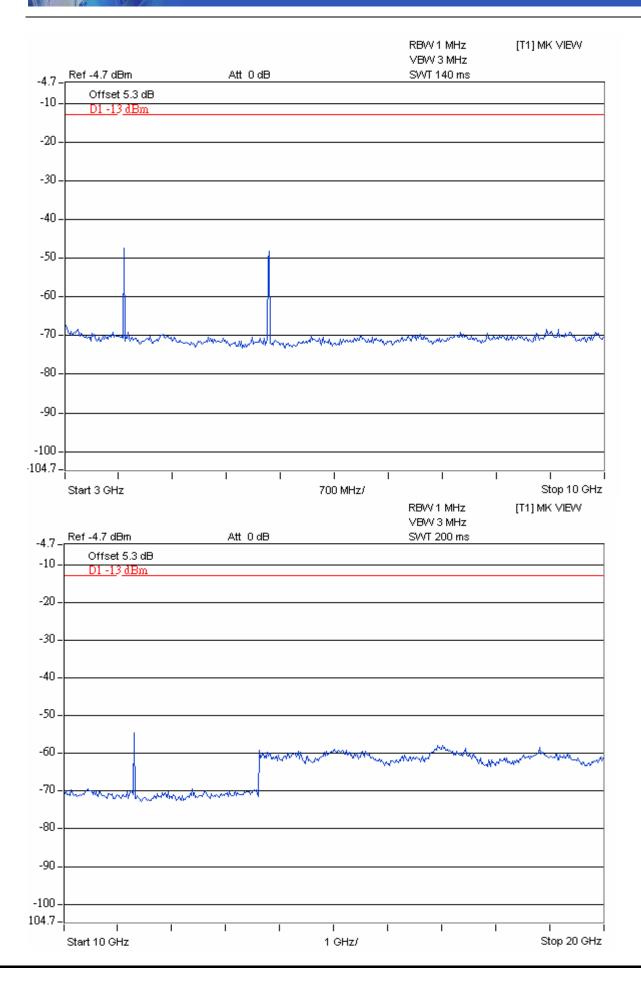
Test Mode:PCS1900 CH 512:9KHz~20GHz



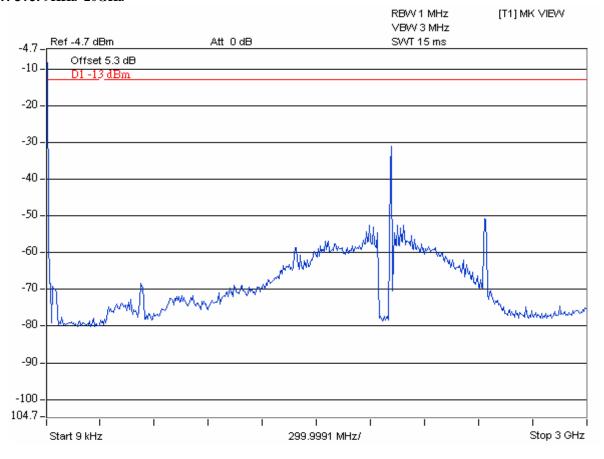
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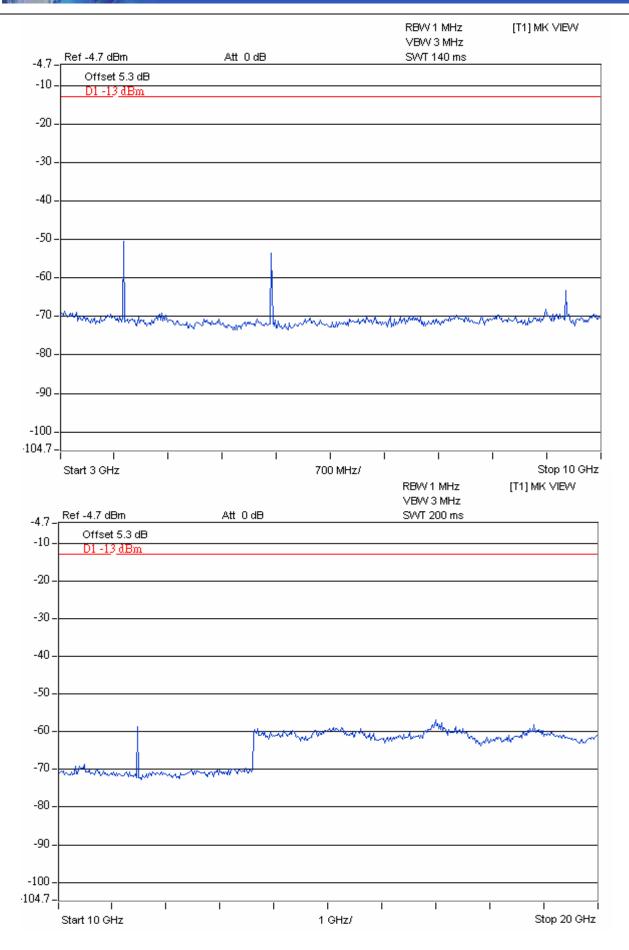
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CH 810: 9KHz~20GHz



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5.6 Field Strength of Spurious Radiation Measurement

EUT was working normal during the test

2. Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

3. All required parameter have been checked and adjusted

4. Test date : July 22~28 2010 Tested By : Andy Wang

Requirement: Part2.1051, 22.917(a), 24.238(a)

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

Procedures:

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15

Test Result: Pass

Operating mode: transmitting

Test Data

GSM 850 Low Channel :824.2MHz

	Low Channel .024.21viiiz						
Frequency (MHz)	ERP/EIRP (dBm)	Azimuth	Polarity(H /V)	Height (cm)	Limit (dBm)	Margin (dB)	Result
1648.40	-50.38	187.80	H	100.00	-13	-37.38	Pass
1648.40	-49.52	328.10	V	100.00	-13	-36.52	Pass
2472.60	-50.91	8.30	Н	100.00	-13	-37.91	Pass
2472.60	-50.33	119.80	V	100.00	-13	-37.33	Pass
3296.80	-32.45	229.20	Н	200.00	-13	-19.45	Pass
3296.80	-34.23	141.40	V	100.00	-13	-21.23	Pass



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Middle Channel:836.60MHz

Frequency (MHz)	ERP/EIRP (dBm)	Azimuth	Polarity(H /V)	Height (cm)	Limit (dBm)	Margin (dB)	Result
1673.20	-50.78	127.80	Н	100.00	-13	-37.78	Pass
1673.20	-48.69	318.20	V	200.00	-13	-35.69	Pass
2509.80	-49.72	28.30	Н	200.00	-13	-36.72	Pass
2509.80	-49.36	139.80	V	100.00	-13	-36.36	Pass
3346.40	-33.41	219.20	Н	200.00	-13	-20.41	Pass
3346.40	-34.02	145.40	V	100.00	-13	-21.02	Pass

High Channel:848.80MHz

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Frequency (MHz)	ERP/EIRP (dBm)	Azimuth	Polarity(H /V)	Height (cm)	Limit (dBm)	Margin (dB)	Result
1697.60	-49.78	144.80	Н	200.00	-13	-36.78	Pass
1697.60	-49.66	221.10	V	200.00	-13	-36.66	Pass
2546.40	-50.32	118.30	Н	200.00	-13	-37.32	Pass
2546.40	-49.34	159.80	V	100.00	-13	-36.34	Pass
3395.20	-35.21	239.20	Н	200.00	-13	-22.21	Pass
3395.20	-33.48	111.40	V	100.00	-13	-20.48	Pass

PCS 1900 Low Channel :1850.2MHz

Frequency (MHz)	ERP/EIRP (dBm)	Azimuth	Polarity(H /V)	Height (cm)	Limit (dBm)	Margin (dB)	Result
3700.40	-46.14	152.80	Н	100.00	-13	-33.14	Pass
3700.40	-36.64	234.10	V	100.00	-13	-23.64	Pass
5550.60	-47.54	111.30	Н	200.00	-13	-34.54	Pass
5550.60	-45.36	234.80	V	100.00	-13	-32.36	Pass
7400.80	-52.01	222.20	Н	200.00	-13	-37.21	Pass
7400.80	-51.33	119.40	V	100.00	-13	-38.33	Pass

Middle Channel:1880.0MHz

Wilder Chamic (1000)							
Frequency (MHz)	ERP/EIRP (dBm)	Azimuth	Polarity(H /V)	Height (cm)	Limit (dBm)	Margin (dB)	Result
3760.00	-45.13	117.80	Н	100.00	-13	-32.31	Pass
3760.00	-38.29	308.10	V	100.00	-13	-25.29	Pass
5640.00	-47.54	328.30	Н	100.00	-13	-34.54	Pass
5640.00	-47.06	179.80	V	100.00	-13	-34.06	Pass
7520.00	-52.46	259.20	Н	100.00	-13	-39.46	Pass
7520.00	-51.13	151.40	V	100.00	-13	-38.13	Pass

High Channel:1909.8MHz

ingh chumici 11000001112							
Frequency (MHz)	ERP/EIRP (dBm)	Azimuth	Polarity(H /V)	Height (cm)	Limit (dBm)	Margin (dB)	Result
3819.60	-46.72	117.20	Н	100.00	-13	-33.72	Pass
3819.60	-37.61	218.90	V	200.00	-13	-24.61	Pass
5729.80	-43.68	218.50	Н	200.00	-13	-30.68	Pass
5729.80	-46.34	159.20	V	200.00	-13	-33.34	Pass
7639.20	-50.73	221.40	Н	200.00	-13	-37.73	Pass
7639.20	-51.36	15170	V	200.00	-13	-38.36	Pass

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Annex A. TEST INSTRUMENT

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Manufacturer	Model	CAL Due Date
Spectrum Analyzer	HP	8564 E	2011.04.26
EMI Receiver	Rohde & Schwarz	ES140	2011.02.19
Antenna (30MHz~2GHz)	Sunol Sciences	JB1	2010.10.04
Horn Antenna (1~18GHz)	A-INFOMW	JXTXLB-10180	2010.11.18
Horn Antenna (1~18GHz)	N/A	N/A	2010.10.04
Pre-Amplifier(0.01 ~ 1.3GHz)	HP	8447F	2011.04.24
Pre-Amplifier(0.1 ~ 18GHz)	MITEQ	AMF-7D-00101800-30- 10P	2011.03.05
Horn Antenna (18~40GHz)	Com Power	AH-840	2011.05.21
Microwave Pre-Amp (18~40GHz)	Com Power	PA-840	2011.05.21
Communication Tester	Agilent	E5515C	2011.6.28
Communication Tester	Rohde & Schwarz	CMU200	2011.6.28
Power Meter	Agilent	E44198B	2010.12.23
Power Sensor	Agilent	E9304A	2010.12.23
Fading simulator	Rohde & Schwarz	ABFS	2010.12.23

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Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Annex B.i. Photograph: EUT Photo







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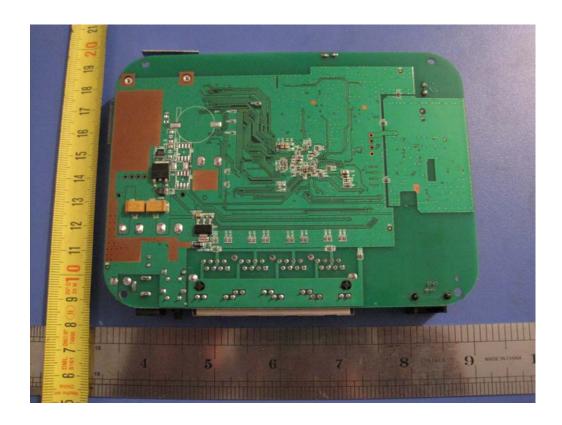
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Annex B.ii Photograph 4: Test Setup Photo



Conducted Emissions Test Setup Front View



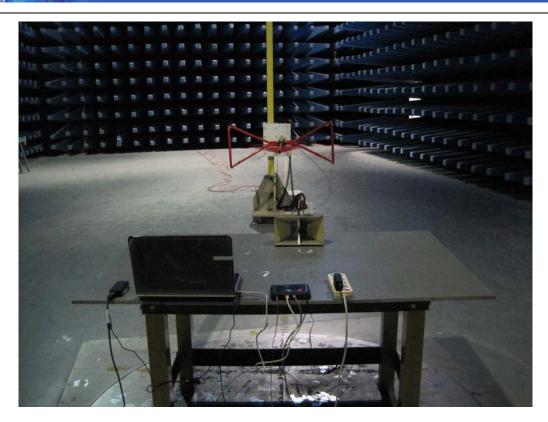
Conducted Emissions Test Setup Side View

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 1005008

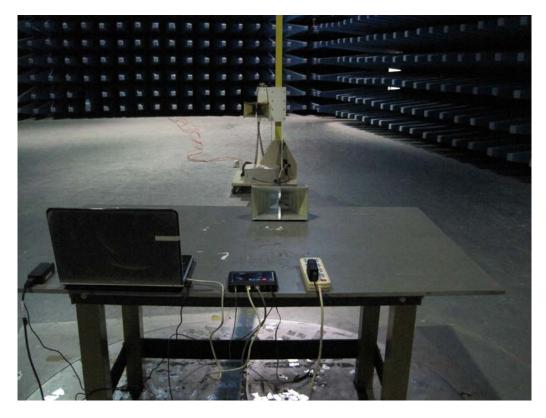
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Radiated Spurious Emissions Test Setup (30MHz-1GHz)



Radiated Spurious Emissions Test Setup (Above 1GHz)

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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

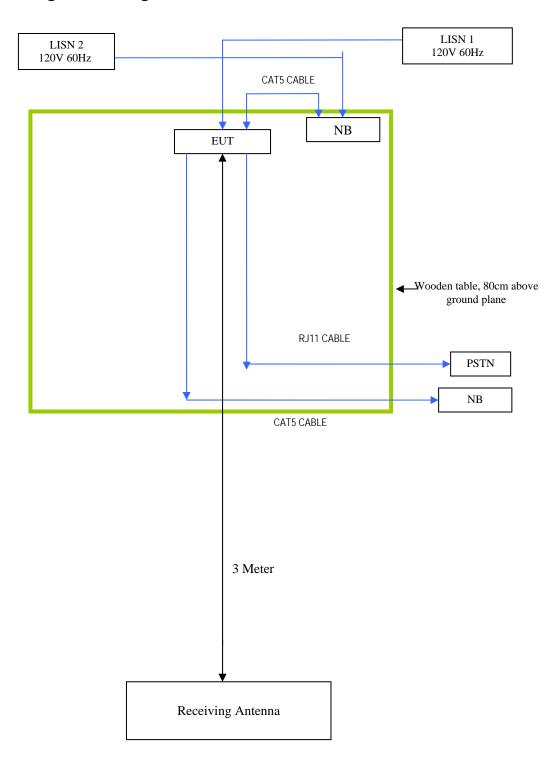
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

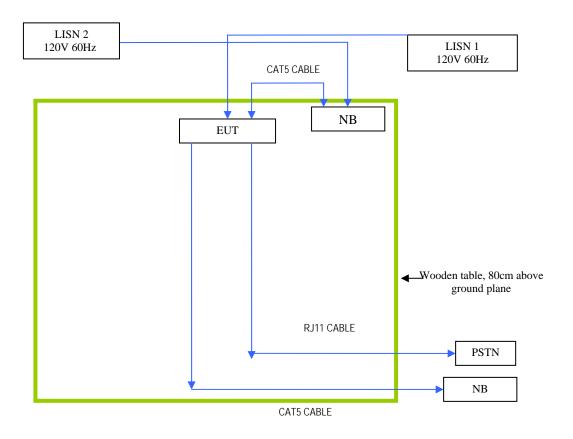
The following is a description of supporting equipment and details of cables used with the EUT.

Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)
Notebook	Gateway	CAT5 Cable 1m
Dell Notebook	DELL	CAT5 Cable 10m

Block Configuration Diagram for Radiated Emission



Block Configuration Diagram for Conducted Emission



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Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation			
Emissions	EUT is working in full power.			

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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment

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Annex E. SIEMIC ACCREDITATION CERTIFICATES

SIEMIC ACREDITATION DETAILS: A2LA Certificate Number: 2742.01





THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

SIEMIC LABORATORIES

San Jose, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005).

letu



Presented this 11th day of July 2008.

President
For the Accreditation Council
Certificate Number 2742.01
Valid to September 30, 2010

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.



THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

ACCREDITED PRODUCT CERTIFICATION BODY

A2LA has accredited

SIEMIC INC.

San Jose, CA

for technical competence as a

Product Certification Body

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC Guide 65:1996 General requirements for bodies operating product certification systems. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system for a Telecommunications Certification Body (TCB) meeting FCC (U.S.), IDA (Singapore) and IC (Canada) requirements.

Presented this 9th day of January 2009.

President

For the Accreditation Council Certificate Number: 2742.02 Valid to: September 30, 2010

For the product certification schemes to which this accreditation applies, please refer to the certification body's Scope of Accreditation.

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SIEMIC ACCREDITATION DETAILS: FCC Registration NO:986914



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SIEMIC ACCREDITATION DETAILS: FCC Listing, Registration NO:986914

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046

April 25, 2008

Registration Number: 986914

SIEMIC Nanjing (China) Laboratories 2-1 Longcang Avenue, Yuhua Economic and Technology Development Park, Nanjing, 210039 China

Attention: Leslie Bai

Re: Measurement facility located at 2-1 Longcang Avenue, Nanjing, China

Anechoic chamber (3 meters) and 3&10 meter OATS

Date of Listing: April 25, 2008

Dear Sir or Madam:

Your request for registration of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC rules. The information has, therefore, been placed on file and the name of your organization added to the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Katie Hawkins Electronics Engineer

SIEMIC ACCREDITATION DETAILS: Industry of Canada Registration No. 4842

Industry Industrie

February 19, 2009

OUR FILE: 46405-4842 Submission No: 131645

Serial#:

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SIEMIC NANJING (CHINA) LABORATORIES

2-1 Longcang Avenue Yuhua Economic & Technology Dev. Park Nanjing China

Attention: Leslie Bai

Dear Sir/Madame:

The Bureau has received your application for the registration of a 3m/10m alternative test site. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought (4842B-1). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information;

- Your primary code is: 4842
- The company number associated to the site(s) located at the above address is: 4842B

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 meter OATS or 3 meter chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed two years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL;

http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00052e.html.

If you have any questions, you may contact the Bureau by e-mail at certification.bureau@ic.gc.ca Please reference our file and submission number above for all correspondence.

Yours sincerely.

Joshua Laviolette

For: Wireless Laboratory Manager Certification and Engineering Bureau 3701 Carling Ave., Building 94 P.O. Box 11490, Station "H" Ottawa, Ontario K2H 8S2

Email: joshua.laviolette@ic.gc.ca Tel. No. (613) 990-2681 Fax. No. (613) 990-4752

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SIEMIC ACCREDITATION DETAILS: Japan RFT Accreditation No. MRF050927



Certificate

This is to certify that the Quality Management System of

SIEMIC, Inc.

2206 Ringwood Avenue San Jose, California 95131 U.S.A

has been authorized to carry out Japan Specified Radio Equipment test by order and under supervision of RF Technologies Co., Ltd. according to Notification No.88 of Radio Law.

An assessment of the laboratory was conducted according to the "Procedure and Conditions for Appointments of 2.4GHz Band Low power data communications system that Bluetooth and Wireless LAN test with reference to ISO/IEC 17025 by an RF Technologies Co., Ltd. auditor.

Audit Report No. MRF050927

Kazuyuki Sarashina

Auditor

RF Technologies Co., Ltd.

Toshihiro Ikegami

President
RF Technologies Co., Ltd.

Audit Date September 27th, 2005 Issued Date October 5th, 2005

This Certificate is valid until September 26th 2006 or next schedule audit.

No:006 Registered Certification Body
RF Technologies Co., Ltd.
472, Nippa-cho, Kohoku-ku, Yokohama, 223-0057, Japan



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SIEMIC ACCREDITATION DETAILS: Korea CAB from NIST: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899

October 1, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Radio Research Agency (RRA) Korea Communications Commission (KCC) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Recognized Scope: EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI

KN22: Test Method for EMI

EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN-61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS Wireless: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10,

RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21,

RRL Notice 2007-80, RRL Notice 2004-68

Wired: President Notice 20664, RRL Notice 2007-30,

RRL Notice 2008-7 with attachments 1, 3, 5, 6

President Notice 20664, RRL Notice 2008-7 with attachment 4

You may submit test data to RRA/KCC to verify that the equipment to be imported into Korea satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

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Enclosure

cc: Ramona Saar

NST

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SIEMIC ACCREDITATION DETAILS: Taiwan BSMI CAB Accreditation No. SL2-IN-E-1130R



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

May 3, 2006

Mr. Leslie Bai SIEMIC Laboratories 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

I am pleased to inform you that your laboratory has been recognized by the Chinese Taipei's Bureau of Standards, Metrology, and Inspection (BSMI) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. You may submit test data to BSMI to verify that the equipment to be imported into Chinese Taipei satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. The pertinent designation information is as follows:

BSMI number: SL2-IN-E-1130R (Must be applied to the test reports)

U.S Identification No:
 Scope of Designation:
 Authorized signatory:
 US0160
 CNS 13438
 Mr. Leslie Bai

The names of all recognized CABs will be posted on the NIST website at http://ts.nist.gov/mra. If you have any questions, please contact Mr. Dhillon at 301-975-5521. We appreciate your continued interest in our international conformity assessment activities.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

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cc: Jogindar Dhillon



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SIEMIC ACCREDITATION DETAILS: Taiwan NCC CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

March 16, 2009

Mr. LeslieBai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the National Communications Commission (NCC) for the requested scope expansion under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Current Scope: LP0002, PSTN01, ADSL01, ID0002, IS6100 and CNS 14336

Additional Scope: PLMN07

You may submit test data to NCC to verify that the equipment to be imported into China satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

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Standards Services Division

Enclosure

cc: Ramona Saar

NIST

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SIEMIC ACCREDITATION DETAILS: Mexico NOM Recognition



Laboratorio Valentín V. Rivero

CAMARA NACIONAL BE LA INDUSTRIA ELECTROMEA, DE TEL ECOMUNICACIONES E INFORMATICA

México D.F. a 16 de octubre de 2006.

LESLIE BAI DIRECTOR OF CERTIFICATION SIEMIC LABORATORIES, INC. ACCESSING GLOBAL MARKETS PRESENTE

En contestación a su escrito de fecha 5 de septembre del año en curso, le comento que estamos muy interesados en su intención de firmar un Acuerdo de Reconocimiento Mutuo, para lo cual adjunto a este escrito encontrara el Acuardo en idioma ingles y español pretienado de los cuales le pido sea revisado y en su caso corregido, para que si esta de acuerdo poder firmarlo para mandarlo con las autoridades Mexicanas para su visto bueno y así poder ejercer dicho acuerdo.

Aprovecho este escrito para mencionarle que nuestro intermediano gestor será la empresa fisatel de México. S. A. de C. V., empresa que ha colaborado durante mucho tiempo con nosotros en lo refecionado a la evaluación de la conformidad y que quenta con amplia experiencia en la gestoria de la certificación de cumplimiento con Normas Oficiales Mexicanas de producto en México.

Me despido de ustad enviándole un cordial saludo y esperando sus comentarios al Acuerdo que nos poupa

Atentamente:

Ing. Fausting Somez González Gerente Tranico del Laboratorio de Calors de

GADNE-H.

Cultarian 77 Hasteronis Condesa Sertro Mavica, D.F. Ser 5264-6308 con 12 lineas Fair 5264-0498

Serial#: 1005008 Issue Date: August 08 2010

SIEMIC ACCREDITATION DETAILS: Hong Kong OFTA Recognition No. D23/16V



Your Ref 來函檔號: Our Ref 本局檔號: D23/16 V

Telephone 電話: (852) 2961 6320 Fax No 圖文傳真: (852) 2838 5004

E-mail 電郵地址:

20 July 2005

Mr. Leslie Bai Director of Certification, SIEMIC Laboratories 2206 Ringwood Avenue San Jose, California 95131 USA

Dear Mr. Bai,

Application of Recognised Testing Agency (RTA)

Referring your submission of 28 June 2005 in relation to the application of RTA, I am pleased to inform you that OFTA has appointed SIEMIC Laboratories (SIEMIC) as a Recognised Testing Agency (RTA):

Please note that, under the Hong Kong Telecommunications Equipment Evaluation and Certification (HKTEC) Scheme, SIEMIC is authorized to conduct evaluation tests on telecommunications equipment against the following HKTA specifications:

Scope of recognition (HKTA Specifications):

1001, 1002, 1004, 1006, 1007, 1008

1010, 1015, 1016

1022, 1026, 1027, 1029

1030, 1031, 1032, 1033, 1034, 1035, 1039

1041, 1042, 1043, 1045, 1047, 1048

You are requested to refer to and comply with the code of practice and guidelines for RTA as given in the Information Note OFTA I 411 "Recognised Testing Agency (RTA) for Conducting Evaluation Test of Telecommunications Equipment", can be downloaded from OFTA's homepage http://www.ofta.gov.hk/tec/information-notes.html.

If you have any queries, please do not hesitate to contact me.

Yours sincerely,

for Director-General of Telecommunications

Office of the Telecommunications Authority 29/F Wu Chung House 213 Queen's Road East Wan Chai Hong Kong http://www.ofta.gov.hk

電訊管理局

香港灣仔皇后大道東 213 號胡忠大廈 29 字樓

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SIEMIC ACCREDITATION DETAILS: OFTA CAB from NIST: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

December 8, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Office of the Telecommunications Authority (OFTA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, California 95131 USA

Identification No.: US0160

Recognized Scope: Radio: HKTA 1002, 1007, 1008, 1010, 1015, 1016, 1020, 1022, 1026,

1027, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1039, 1041,

1042, 1043, 1044, 1046, 1047, 1048, 1049, 1051

Telecom: HKTA 2011, 2012, 2013, 2014, 2017, 2018, 2022, 2024, 2026.

2027, 2028, 2029, 2030, 2031, 2032, 2033

You may submit test data to OFTA to verify that the equipment to be imported into Hong Kong satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

David I. alden

Enclosure

cc: Ramona Saar

NIST

SIEMIC ACCREDITATION DETAILS: Australia NATA Recognition



Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

November 4, 2008

1005008

www.siemic.com.cn

Under Australian government legislation, the Australian Communications and Media Authority (ACMA) has determined the National Association of Testing Authorities, Australia (NATA) as an accreditation body as per Section 409(1) of the Telecommunications Act 1997 (Cth). Pursuant to Section 409(2) of the Telecommunications Act 1997 (Cth), I am pleased to advise that your laboratory has been determined as a Recognised Testing Authority (RTA).

This determination has been made on the basis of your accreditation by A2LA accreditation no. 2742.01 and the Mutual Recognition Agreement between NATA and A2LA. It is effective from 11 July 2008. RTA status applies only to the following standards and is contingent upon their continued inclusion in your laboratory's scope of accreditation.

AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S041 and AS/ACIF S043.2

As an RTA, your laboratory has the following obligations:

- 1. the laboratory shall continue to meet all of the accreditation criteria of A2LA;
- 2. the authorised representative of the laboratory shall notify NATA of changes to the staff or operations of the laboratory which would affect the performance of the tests for which the laboratory has been determined;
- compliance of equipment shall be reported on test reports bearing the A2LA logo/endorsement.

Current information on the Australian Communications and Media Authority and regulatory requirements for telecommunications products within Australia can be obtained from the ACMA's web-site at "http://www.acma.gov.au". Further information about NATA may be gained by visiting "http://www.nata.asn.au".

Please note that AS/ACIF S040 and New Zealand standards do not form part of the RTA scheme.

Your RTA listing will appear on the NATA website shortly.

Kind Regards

Chris Norton. Senior Scientific Officer Measurement Science and Technology National Association of Testing Authorities (NATA) 71-73 Flemington Road North Melbourne Vic 3051

Ph: +61 3 9329 1633 Fx: +61 3 9326 5148 E-Mail: Christopher Norton@nata.asn.au

Internet: www.nata.asn.au