COLLAGE INVESTMENTS LLC

Mobile phone

Main Model: L1 FLYER Serial Model: N/A

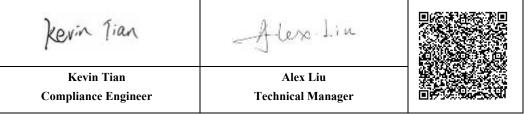
July 08, 2014

Report No.: 14050021-FCC-R1-V1 (This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:



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Test result presented in this test report is applicable to the representative sample only.



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 2 of 68 www.siemic.com.cn

Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to <u>testing</u> and <u>certification</u>, SIEMIC provides initial design reviews and <u>compliance</u> <u>management</u> through out a project. Our extensive experience with <u>China</u>, <u>Asia Pacific</u>, <u>North</u> <u>America</u>, <u>European</u>, <u>and international</u> compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the <u>global markets</u>.

Accreditations for Conformity Assessment

Country/Region	Scope			
USA	EMC, RF/Wireless, Telecom			
Canada	EMC, RF/Wireless, Telecom			
Taiwan	EMC, RF, Telecom, Safety			
Hong Kong	RF/Wireless, Telecom			
Australia	EMC, RF, Telecom, Safety			
Korea	EMI, EMS, RF, Telecom, Safety			
Japan	EMI, RF/Wireless, Telecom			
Singapore	EMC, RF, Telecom			
Europe	EMC, RF, Telecom, Safety			



Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:3 of 68www.siemic.com.cn

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CONTENTS

1.	EXECUTIVE SUMMARY & EUT INFORMATION	5
2.	TECHNICAL DETAILS	6
3.	MODIFICATION	7
4.	TEST SUMMARY	8
5.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
AN	NEX A. TEST INSTRUMENT & METHOD	51
AN	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	54
AN	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	64
AN	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST	67
AN	NEX E. DECLARATION OF SIMILARITY	68

 Report No:
 14050021-FCC-R1-V1

 Issue Date:
 July 08, 2014

 Page:
 5 of 68

 www.siemic.com.cn

1. EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programmed was to demonstrate compliance of the COLLAGE INVESTMENTS LLC, Mobile phone and model: L1 FLYER against the current Stipulated Standards. The Mobile phone has demonstrated compliance with the FCC Part 22(H) & FCC Part 24(E): 2013.

EUT Information

EUT Description	Mobile phone
Main Model	L1 FLYER
Serial Model	N/A
Antenna Gain	GSM850: -1.87 dBi PCS1900: -0.75 dBi UMTS-FDD Band V: -0.62 dBi UMTS-FDD Band II: -0.62 dBi Bluetooth/ WIFI: -0.7 dBi
Input Power	Adapter: Model: BSN-DB05B Input: AC 100-240V 50/60Hz 150mA Output: DC 5V 500mA RECHARGEABLE BATTERY BH-P4B: 3.7V 1300mAh 4.81Wh
Maximum Conducted AV Power to Antenna	GSM850: 32.91 dBm PCS1900: 28.63 dBm UMTS-FDD Band V : 22.89 dBm UMTS-FDD Band II : 22.13 dBm
Maximum Radiated ERP/EIRP	GSM850: 27.91 dBm / ERP PCS1900: 26.18 dBm / EIRP UMTS-FDD Band V : 23.67 dBm / ERP UMTS-FDD Band II : 21.45 dBm / EIRP
Classification Per Stipulated Test Standard	FCC Part 22(H) & FCC Part 24(E): 2013



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 6 of 68 www.siemic.com.cn

2. <u>TECHNICAL DETAILS</u>

Purpose	Compliance testing of Mobile phone with stipulated standard
Applicant / Client	COLLAGE INVESTMENTS LLC 11437 NW 34 STREET, DORAL, FLORIDA 33178 U.S.A.
Manufacturer	NINGBO BIRD CO., LTD No.999 Dacheng East Road,Fenghua City,Zhejiang
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: China@siemic.com.cn
Test report reference number	14050021-FCC-R1-V1
Date EUT received	May 19, 2014
Standard applied	FCC Part 22(H) & FCC Part 24(E): 2013
Dates of test	May 30 to July 07, 2014
No of Units	#1
Equipment Category	РСЕ
Trade Name	LIKUID
RF Operating Frequency (ies)	GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 871.4 ~ 891.6 MHz UMTS-FDD Band II TX :1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n: 2412-2462 MHz Bluetooth: 2402-2480 MHz
Number of Channels	299CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH Bluetooth: 79CH 802.11b/g/n: 11CH
Modulation	GSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK
GPRS Multi-slot class	8/10/12
Port	Earphone Port, USB Port
FCC ID	GAO-FLYER



Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:7 of 68www.siemic.com.en

3. MODIFICATION

NONE



 SIEMIC, INC.

 Title:
 RF Test Report for Mobile phone

 Main Model:
 L1 FLYER

 Serial Model:
 N/A

 To:
 FCC Part 22(H) & FCC Part 24(E): 2013

Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 8 of 68 www.siemic.com.cn

4. <u>TEST SUMMARY</u>

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

PCE

Test Results Summary

Test Standard	Description	Product Class	Pass / Fail
§ 1.1307, § 2.1093	RF Exposure (SAR)	See Above	Pass
§2.1046; § 22.913 (a); § 24.232 (c)	RF Output Power	See Above	Pass
§ 2.1047	Modulation Characteristics	See Above	N/A
§ 2.1049; § 22.905 § 22.917; § 24.238	99% & -26 dB Occupied Bandwidth	See Above	Pass
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	See Above	Pass
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	See Above	Pass
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	See Above	Pass
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	See Above	Pass

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different.

Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 9 of 68 www.siemic.com.cn

5. <u>MEASUREMENTS, EXAMINATION AND DERIVED</u> <u>RESULTS</u>

5.1 §1.1307, §2.1093- RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation; please refer to RF Exposure Evaluation Report: 14050021-FCC-H2.

Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 10 of 68 www.siemic.com.cn

5.2 §2.1046 ;§22.913 (a); §24.232 (c)- RF Output Power

1.	Conducted Measurement		
	EUT was set for low, mid, high	channel with modulated mode and	d highest RF output power.
	The spectrum analyzer was con	nected to the antenna terminal.	
2.	Conducted Emissions Measurer	ment Uncertainty	
		ately 95% (in the case where distri	ds. The uncertainty of the measurement at butions are normal), with a coverage factor
3.	Environmental Conditions	Temperature	20°C
5.	Linvironmental Conditions	Relative Humidity	50%
		Atmospheric Pressure	1019mbar

Test date : June 03, 2014 4. Tested By : Kevin Tian

Procedures:

For Conducted Power:

Title:

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different test mode.

For ERP/EIRP:

- 1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution 4. antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in $dB = 10 \lg (TXpwr in Watts/0.001) - the absolute level$

Spurious attenuation limit in $dB = 43 + 10 \text{ Log}_{10}$ (power out in Watts)

Test Result: Pass

Remark: Conducted Burst Average power for reporting purposes only



Conducted Power

GSM Mode:

Burst Average Power (dBm);								
Band		GSM	/1850		GSM1900			
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	/
GSM Voice (1 uplink),GMSK	32.91	32.81	32.70	32±1	28.63	28.16	27.71	28±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.89	32.80	32.69	32±1	28.38	27.91	27.35	28±1
GPRS Multi-Slot Class 10 (2 uplink),GMSK	32.14	32.04	31.89	32±1	27.79	27.73	27.02	27±1
GPRS Multi-Slot Class 12 (4 uplink),GMSK	29.20	29.09	29.01	29±1	24.81	24.73	24.27	24±1
Remark : GPRS, CS1 coding scheme. Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link								

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS mode.



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 12 of 68 www.siemic.com.cn

UMTS Mode:

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
RMC	4132	826.4	22.75
12.2kbps	4175	835	22.88
12.2K0ps	4233	846.6	22.89
HSDPA	4132	826.4	21.91
Subtest1	4175	835	22.04
Sublest	4233	846.6	22.11
LICDDA	4132	826.4	22.32
HSDPA Subtest2	4175	835	22.17
Subtest2	4233	846.6	22.05
UCDDA	4132	826.4	21.99
HSDPA	4175	835	21.95
Subtest3	4233	846.6	22.01
UCDDA	4132	826.4	21.83
HSDPA	4175	835	21.94
Subtest4	4233	846.6	21.89
	4132	826.4	22.02
HSUPA	4175	835	22.13
Subtest1	4233	846.6	22.31
	4132	826.4	21.22
HSUPA Subtrat2	4175	835	21.06
Subtest2	4233	846.6	21.19
	4132	826.4	21.53
HSUPA	4175	835	21.46
Subtest3	4233	846.6	21.72
	4132	826.4	22.15
HSUPA	4175	835	22.20
Subtest4	4233	846.6	22.13
	4132	826.4	22.44
HSUPA	4175	835	21.98
Subtest5	4233	846.6	22.13

UMTS-FDD Band V



 Report No:
 14050021-FCC-R1-V1

 Issue Date:
 July 08, 2014

 Page:
 13 of 68
 www.siemic.com.cn

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)				
D) (C	9262	1852.4	22.04				
RMC	9400	1880	22.11				
12.2kbps	9538	1907.6	21.84				
UCDDA	9262	1852.4	22.06				
HSDPA	9400	1880	22.13				
Subtest1	9538	1907.6	21.86				
	9262	1852.4	22.02				
HSDPA	9400	1880	22.10				
Subtest2	9538	1907.6	21.82				
	9262	1852.4	22.01				
HSDPA	9400	1880	22.09				
Subtest3	9538	1907.6	21.85				
	9262	1852.4	22.04				
HSDPA	9400	1880	22.12				
Subtest4	9538	1907.6	21.81				
	9262	1852.4	22.05				
HSUPA	9400	1880	22.12				
Subtest1	9538	1907.6	21.85				
	9262	1852.4	22.01				
HSUPA	9400	1880	22.10				
Subtest2	9538	1907.6	21.83				
	9262	1852.4	22.00				
HSUPA	9400	1880	22.04				
Subtest3	9538	1907.6	21.76				
	9262	1852.4	21.97				
HSUPA	9400	1880	22.10				
Subtest4	9538	1907.6	21.82				
	9262	1852.4	21.96				
HSUPA Subtect5	9400	1880	22.01				
Subtest5	9538	1907.6	21.75				

UMTS-FDD Band II

ERP & EIRP ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	21.8	V	6.2	1.67	26.33	38.45
824.2	23.29	Н	6.2	1.67	27.82	38.45
836.6	21.65	V	6.2	1.67	26.18	38.45
836.6	22.71	Н	6.2	1.67	27.24	38.45
848.8	22.27	V	6.2	1.67	26.80	38.45
848.8	23.38	Н	6.2	1.67	27.91	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	17.18	V	8.6	1.33	24.45	33
1850.2	18.19	Н	8.6	1.33	25.46	33
1880	18.91	V	8.6	1.33	26.18	33
1880	17.57	Н	8.6	1.33	24.84	33
1909.8	16.18	V	8.6	1.33	23.45	33
1909.8	18.28	Н	8.6	1.33	25.55	33

ERP for UMTS-FDD Band $V\,$ (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	17.84	V	6.2	1.67	22.37	33
826.4	18.41	Н	6.2	1.67	22.94	33
835	18.98	V	6.2	1.67	23.51	33
835	19.14	Н	6.2	1.67	23.67	33
846.6	18.31	V	6.2	1.67	22.84	33
846.6	18.38	Н	6.2	1.67	22.91	33

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	14.18	V	8.6	1.33	21.45	33
1852.4	13.4	Н	8.6	1.33	20.67	33
1880	14.06	V	8.6	1.33	21.33	33
1880	13.51	Н	8.6	1.33	20.78	33
1907.6	13.78	V	8.6	1.33	21.05	33
1907.6	13.29	Н	8.6	1.33	20.56	33

Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 15 of 68 www.siemic.com.cn

5.3 §2.1047 - Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.



SIEMIC, INC.
 Title:
 RF Test Report for Mobile phone

 Main Model:
 L1 FLYER

 Serial Model:
 N/A

 To:
 FCC Part 22(H) & FCC Part 24(E): 2013

 Report No:
 14050021-FCC-R1-V1

 Issue Date:
 July 08, 2014

 Page:
 16 of 68
 www.siemic.com.cn

5.4 §2.1049, §22.917, §22.905 & §24.238 - Occupied Bandwidth

1.	Conducted Measurement				
	EUT was set for low, mid, high channel with modulated mode and highest RF output power.				
	The spectrum analyser was connected to the antenna terminal.				
2.	Environmental Conditions	Temperature	20°C		
		Relative Humidity	50%		
		Atmospheric Pressure	1019mbar		
3.	Conducted Emissions Measureme	nt Uncertainty			
	All test measurements carried out	are traceable to national standards. 7	The uncertainty of the measurement at		
	a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor				
	of 2, in the range 30MHz – 40GH	z is ± 1.5 dB.			
4.	Test date : July 07, 2014				
	Tested By : Kevin Tian				

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 middle channel for the highest RF powers.

Test Results: Pass

Cellular Band (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	243.3	317
190	836.6	246.7	318
251	848.8	246.7	318

PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	245.0	315
661	1880.0	241.7	315
810	1909.8	241.7	313

SIEMIC, INC.
 Title:
 RF Test Report for Mobile phone

 Main Model:
 L1 FLYER

 Serial Model:
 N/A

 To:
 FCC Part 22(H) & FCC Part 24(E): 2013

 Report No:
 14050021-FCC-R1-V1

 Issue Date:
 July 08, 2014

 Page:
 17 of 68
 www.siemic.com.cn

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.17	4.73
4175	835.0	4.18	4.75
4233	846.6	4.18	4.73

UMTS-FDD Band II (Part 24E)

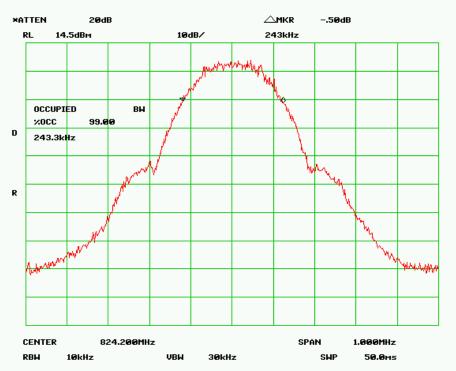
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.19	4.76
9400	1880.0	4.18	4.74
9538	1907.6	4.18	4.80

Please refer to the following plots.

Cellular Band (Part 22H)

99% Occupied Bandwidth

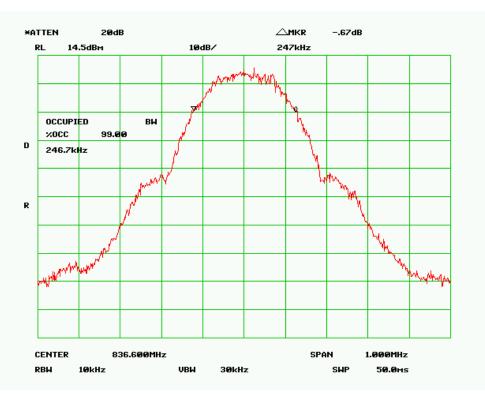
Low Channel



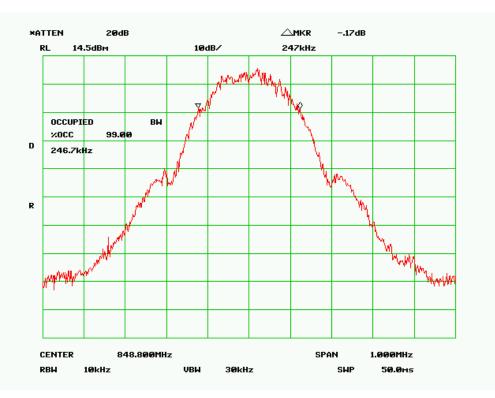


Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 18 of 68 www.siemic.com.cn

Middle Channel



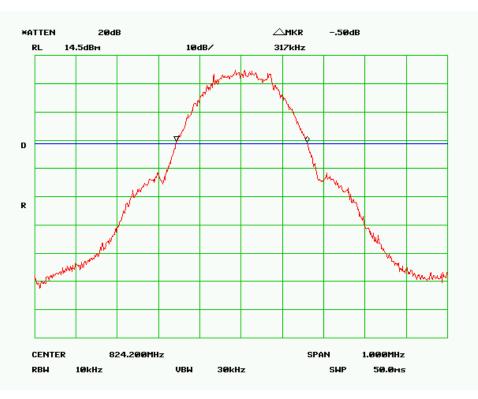
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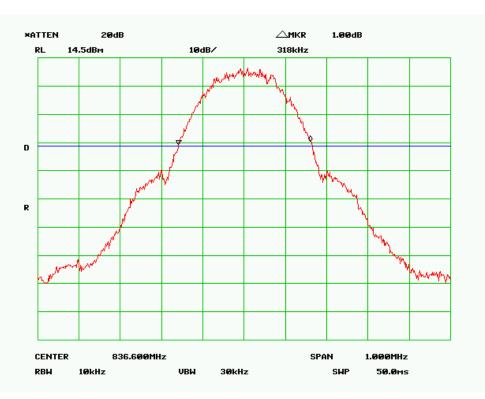


Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 19 of 68 www.siemic.com.cn

26 dB Bandwidth Low Channel



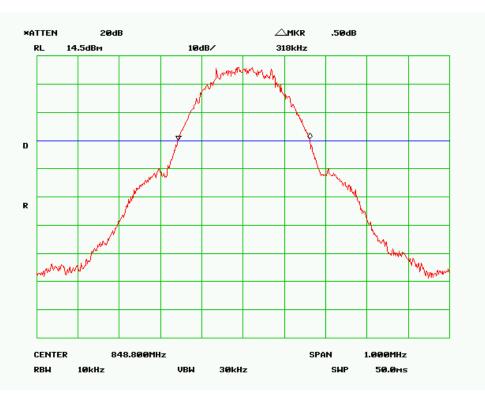
Middle Channel



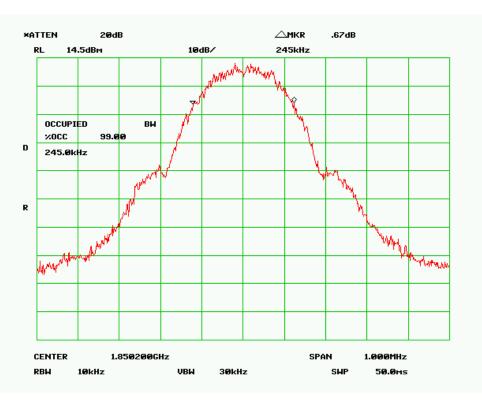


Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:20 of 68www.siemic.com.cn

High Channel



PCS Band (Part 24E)

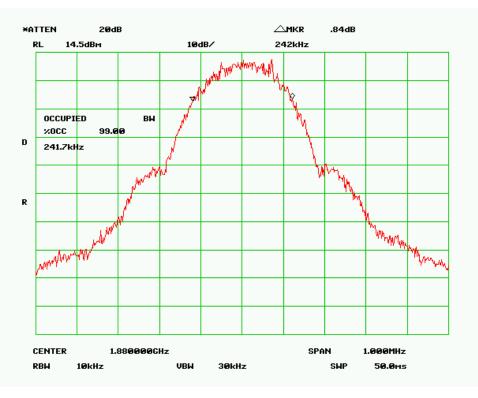


99% Occupied Bandwidth Low Channel

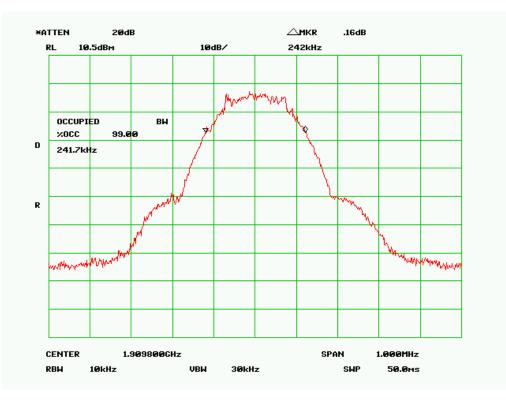


Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:21 of 68www.siemic.com.cn

Middle Channel



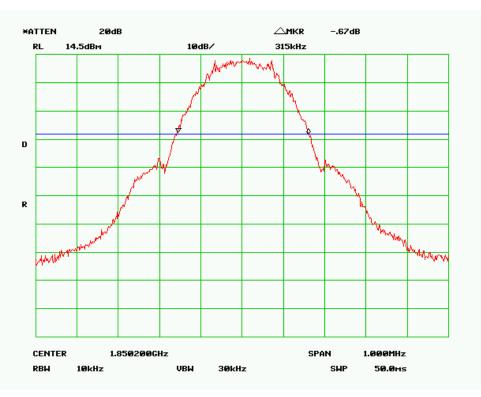
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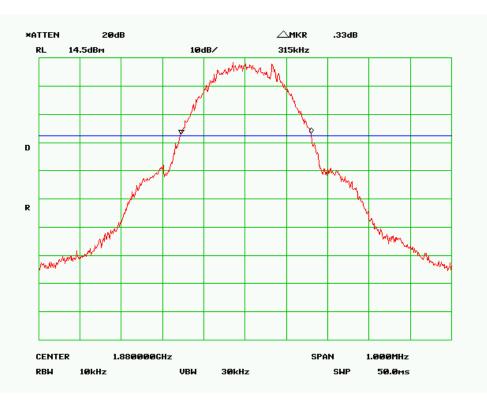


Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:22 of 68www.siemic.com.cn

26 dB Bandwidth Low Channel



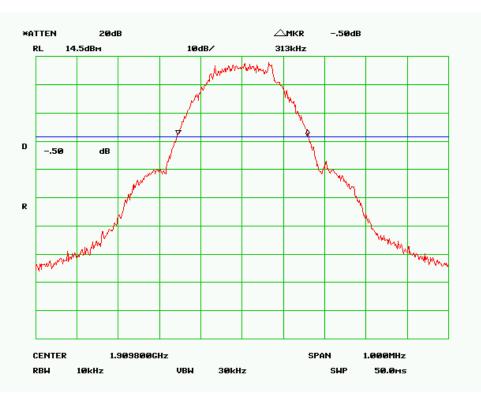
Middle Channel





Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:23 of 68www.siemic.com.cn

High Channel



UMTS-FDD Band V (Part 22H)

99% Occupied Bandwidth Low Channel



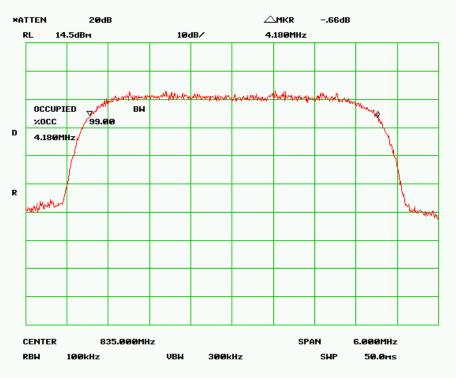


 Report No:
 14050021-FCC-R1-V1

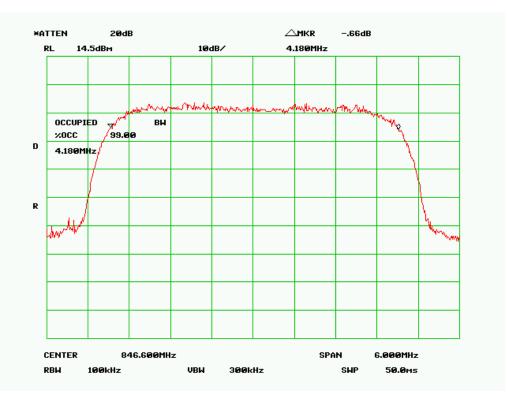
 Issue Date:
 July 08, 2014

 Page:
 24 of 68
 www.siemic.com.cn

Middle Channel



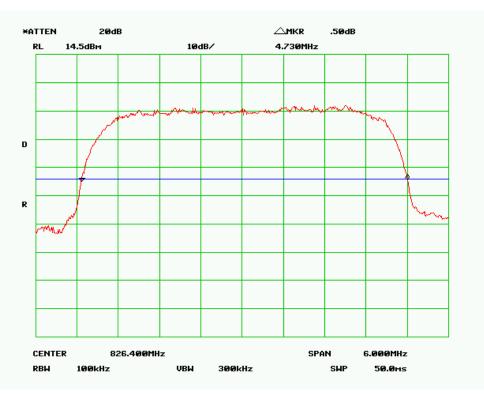
High Channel



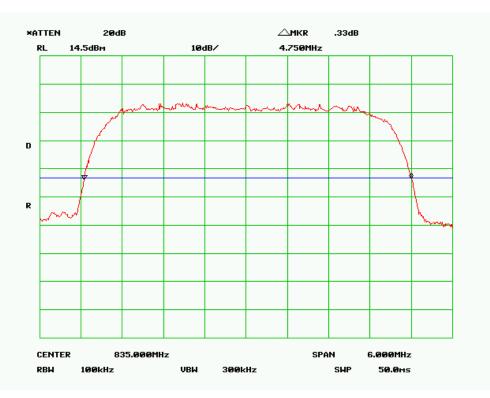


Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:25 of 68www.siemic.com.cn

26 dB Bandwidth Low Channel



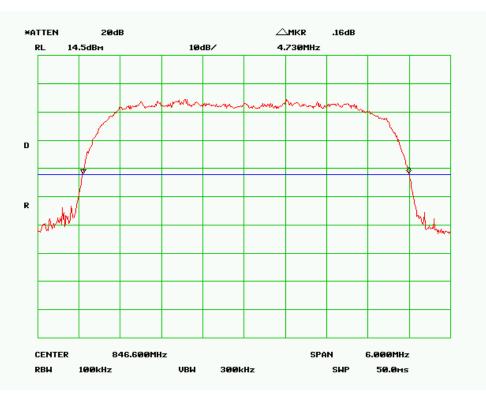
Middle Channel





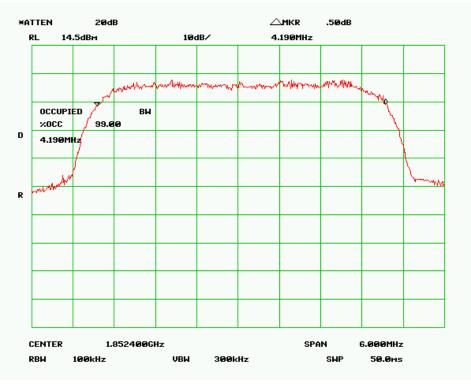
Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:26 of 68www.siemic.com.cn

High Channel



UMTS-FDD Band II (Part 24E)

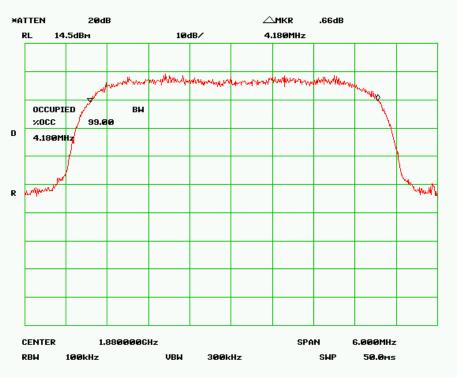
99% Occupied Bandwidth Low Channel



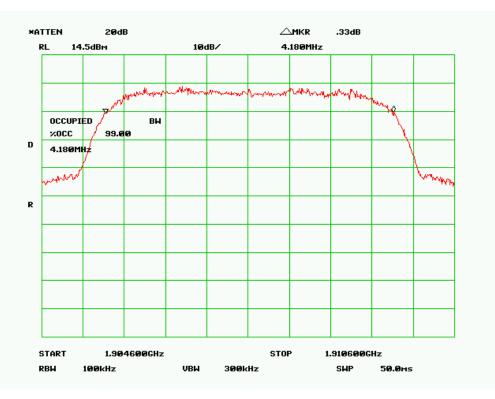


Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:27 of 68www.siemic.com.cn

Middle Channel



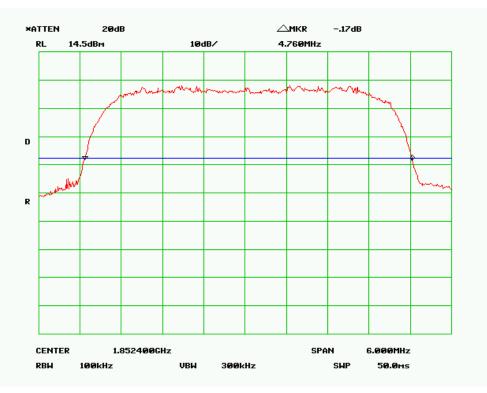
High Channel





Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 28 of 68 www.siemic.com.cn

26 dB Bandwidth Low Channel



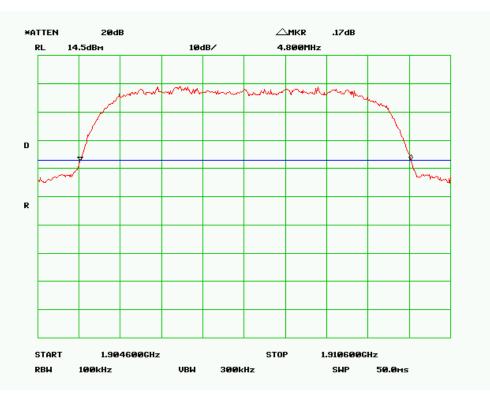
Middle Channel





Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 29 of 68 www.siemic.com.cn

High Channel





Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:30 of 68www.siemic.com.cn

5.5 §2.1051, §22.917(a) & §24.238(a) - Spurious Emissions at Antenna Terminals

1.	Conducted Measurement				
	EUT was set for low, mid, high channel with modulated mode and highest RF output power.				
	The spectrum analyzer was connected to the antenna terminal.				
2.	Conducted Emissions Measurement Uncertainty				
	All test measurements carried out	are traceable to national standards. T	he uncertainty of the measurement at		
	a confidence level of approximately 95% (in the case where distributions are normal), with a coverage fact				
	of 2, in the range 30MHz – 40GHz	z is ± 1.5 dB.			
3.	Environmental Conditions	Temperature	20°C		
		Relative Humidity	58%		
		Atmospheric Pressure	1016mbar		
4.	Test date : July 07, 2014				
	Tested By : Kevin Tian				

Standard Requirement:

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

Refer to the attached plots.

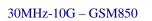


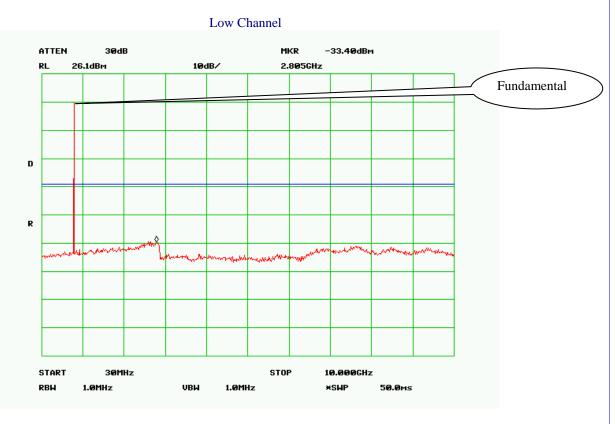
 Report No:
 14050021-FCC-R1-V1

 Issue Date:
 July 08, 2014

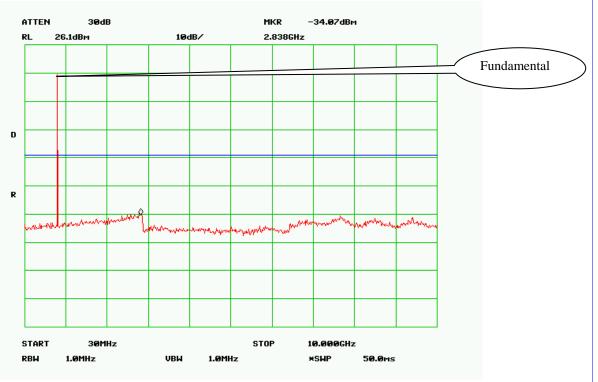
 Page:
 31 of 68
 www.siemic.com.cn

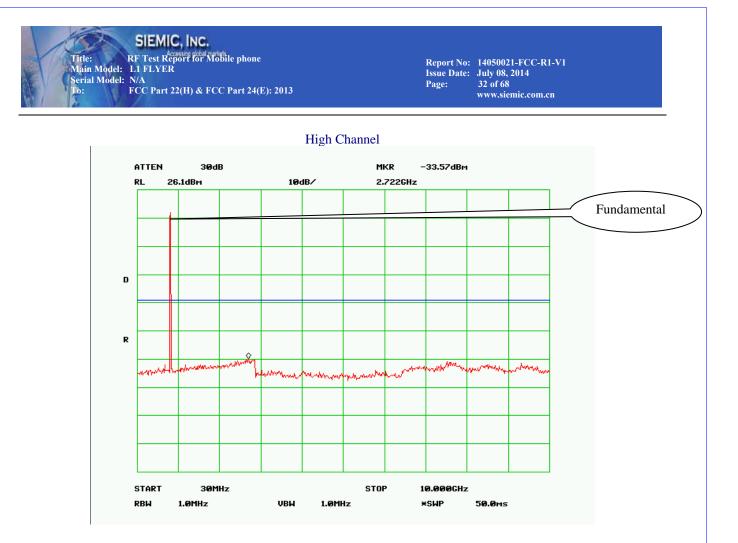
Cellular Band (Part 22H)





Middle Channel

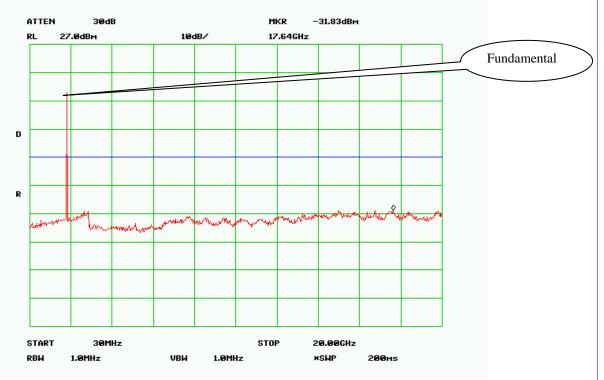




PCS Band (Part24E)

30MHz-20G - PCS1900

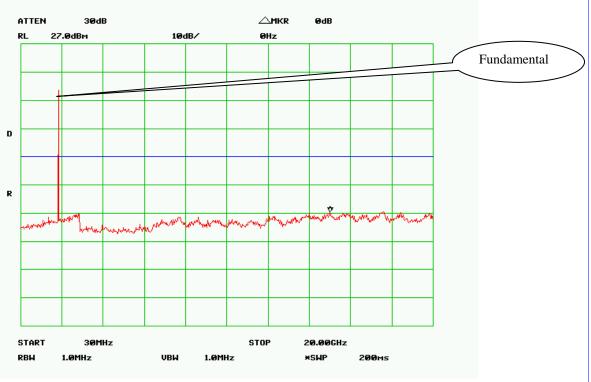
Low Channel



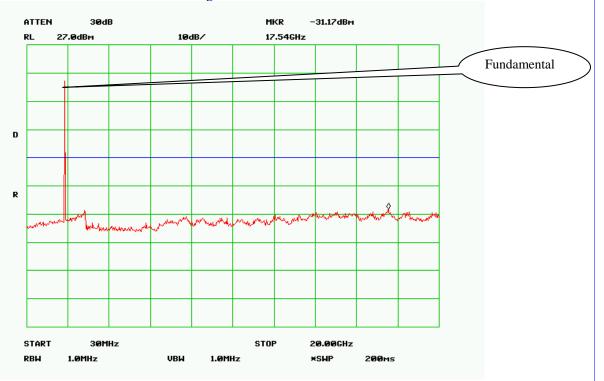








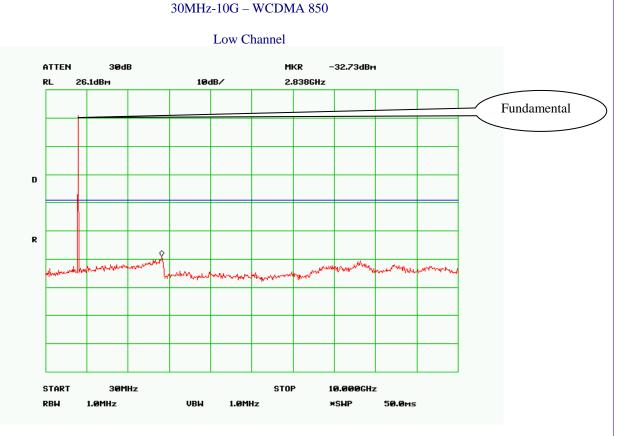
High Channel



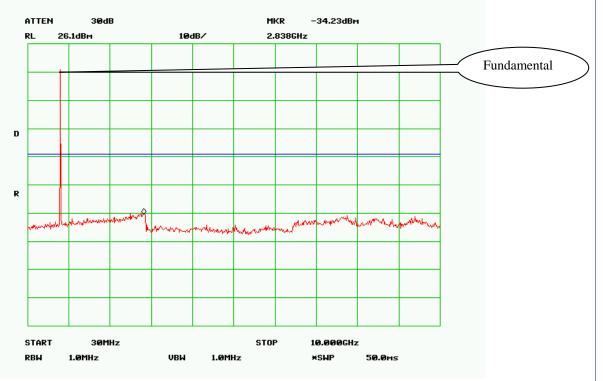


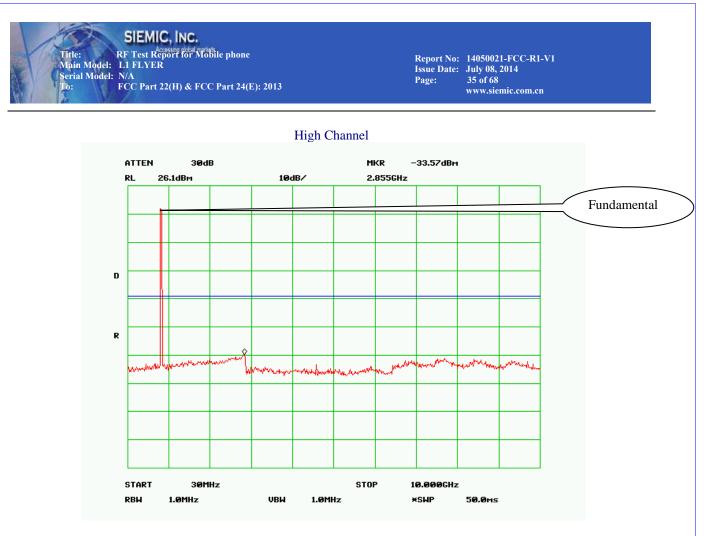
Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 34 of 68 www.siemic.com.cn

UMTS-FDD Band V (Part 22H)

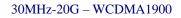


Middle Channel

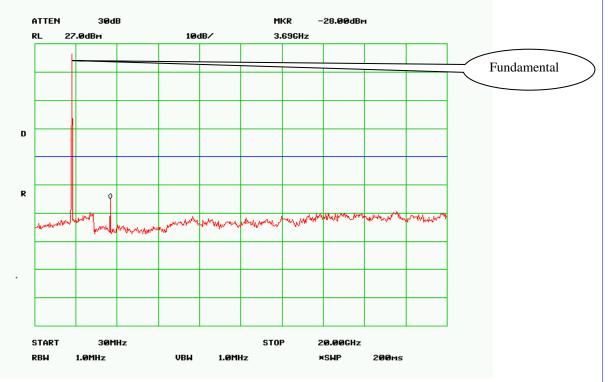




UMTS-FDD Band II (Part24E)



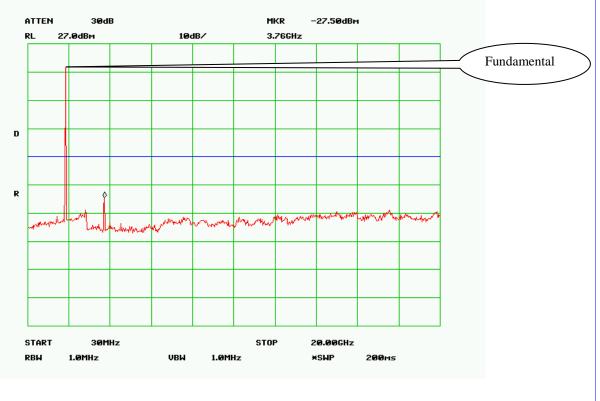
Low Channel



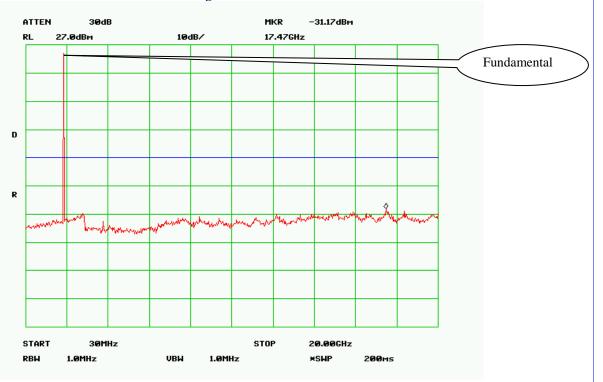




Middle Channel



High Channel





Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 37 of 68 www.siemic.com.cn

50%

1019mbar

5.6 §2.1053, §22.917 & §24.238 - Spurious Radiated Emissions

- 1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
- 2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- Radiated Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 1GHz 40GH is ±6.0dB (for EUTs < 0.5m X 0.5m X 0.5m).</p>

 Environmental Conditions Temperature 26°C
- Relative Humidity Temperature Relative Humidity

5. Test date : June 03, 2014 Tested By : Kevin Tian

Standard Requirement:

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 10^{th} harmonic.

Procedures: (According with TIA 603D)

- 1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Sample Calculation:

EUT Field Strength (dBm) = Reading (Signal generator) + Antenna Gain (substitution antenna) - Cable loss (From Signal Generator to substitution antenna)

Test Result: Pass



Cellular Band (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-46.99	244	100	V	8.2	1.33	0	-40.12	-13	-27.12
1648.4	-43.99	192	130	Н	8.2	1.33	0	-37.12	-13	-24.12
245.3	-50.73	312	120	V	5.7	1.17	0	-46.2	-13	-33.2
251.6	-48.88	340	110	Н	5.7	1.17	0	-44.35	-13	-31.35

Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-47.02	251	110	V	8.2	1.33	0	-40.15	-13	-27.15
1673.2	-47.1	184	100	Н	8.2	1.33	0	-40.23	-13	-27.23
247.2	-51.91	154	130	V	5.7	1.17	0	-47.38	-13	-34.38
251.8	-49.51	305	110	Н	5.7	1.17	0	-44.98	-13	-31.98

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-47.71	215	110	V	8.2	1.33	0	-40.84	-13	-27.84
1697.6	-44.16	73	120	Н	8.2	1.33	0	-37.29	-13	-24.29
250.2	-51.51	115	110	V	5.7	1.17	0	-46.98	-13	-33.98
250.6	-49.46	304	110	Н	5.7	1.17	0	-44.93	-13	-31.93



Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:39 of 68www.siemic.com.en

PCS Band (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-51.16	104	120	V	10	2.17	0	-43.33	-13	-30.33
3700.4	-47.95	240	110	Н	10	2.17	0	-40.12	-13	-27.12
245.6	-51.35	100	110	V	5.7	1.17	0	-46.82	-13	-33.82
251.2	-51.5	330	110	Н	5.7	1.17	0	-46.97	-13	-33.97

Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-52.66	260	100	V	10	2.16	0	-44.82	-13	-31.82
3760	-48.52	188	120	Н	10	2.16	0	-40.68	-13	-27.68
245.6	-47.14	115	110	V	5.7	1.17	0	-42.61	-13	-29.61
251.4	-51.36	309	100	Н	5.7	1.17	0	-46.83	-13	-33.83

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-51.99	115	110	V	10	2.17	0	-44.16	-13	-31.16
3819.6	-47.92	194	110	Н	10	2.17	0	-40.09	-13	-27.09
245.5	-50.4	190	110	V	5.7	1.17	0	-45.87	-13	-32.87
250.8	-50.67	341	120	Н	5.7	1.17	0	-46.14	-13	-33.14



UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-49.06	252	110	V	8.2	1.33	0	-42.19	-13	-29.19
1652.8	-49.75	51	120	Н	8.2	1.33	0	-42.88	-13	-29.88
246.5	-48.87	146	120	V	5.7	1.17	0	-44.34	-13	-31.34
252.1	-48.7	322	100	Н	5.7	1.17	0	-44.17	-13	-31.17

Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-51.19	146	110	V	8.2	1.33	0	-44.32	-13	-31.32
1670	-50.05	108	130	Н	8.2	1.33	0	-43.18	-13	-30.18
246.4	-50.91	258	120	V	5.7	1.17	0	-46.38	-13	-33.38
251.8	-49.47	320	140	Н	5.7	1.17	0	-44.94	-13	-31.94

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-52.8	121	110	V	8.2	1.16	0	-45.76	-13	-32.76
1693.2	-50.77	293	120	Н	8.2	1.16	0	-43.73	-13	-30.73
247.1	-50.47	194	110	V	5.7	1.17	0	-45.94	-13	-32.94
252.4	-51.15	261	140	Н	5.7	1.17	0	-46.62	-13	-33.62



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 41 of 68 www.siemic.com.cn

UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-52.4	94	130	V	10	2.33	0	-44.73	-13	-31.73
3704.8	-49	191	120	Н	10	2.33	0	-41.33	-13	-28.33
245.3	-49.78	56	110	V	5.7	1.17	0	-45.25	-13	-32.25
251.5	-50.97	209	110	Н	5.7	1.17	0	-46.44	-13	-33.44

Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-52.39	232	120	V	10	2.16	0	-44.55	-13	-31.55
3760	-50.14	52	110	Н	10	2.16	0	-42.3	-13	-29.3
245.6	-50.13	164	110	V	5.7	1.17	0	-45.6	-13	-32.6
251.2	-50.07	148	110	Н	5.7	1.17	0	-45.54	-13	-32.54

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-47.82	90	100	V	10	2.33	0	-40.15	-13	-27.15
3815.2	-49.11	165	140	Н	10	2.33	0	-41.44	-13	-28.44
245.3	-51.26	119	110	V	5.7	1.17	0	-46.73	-13	-33.73
251.6	-51.79	271	120	Н	5.7	1.17	0	-47.26	-13	-34.26



Title: RF Test Report for Mobile phone Main Model: L1 FLYER FCC Part 22(H) & FCC Part 24(E): 2013

Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 42 of 68 Page: www.siemic.com.cn

1012mbar

5.7 §22.917(a) & §24.238(a) - Band Edge

1. Conducted Measurement EUT was set for low, mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal. 2. Conducted Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$. 3. **Environmental Conditions** 20°C Temperature **Relative Humidity** 58%

Atmospheric Pressure

4. Test date : May 30, 2014 Tested By : Kevin Tian

Standard Requirement:

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



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 43 of 68 www.siemic.com.cn

Refer to the attached plots.

Cellular Band (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.984	-14.39	-13
849.026	-13.57	-13

PCS Band (Part 24E)

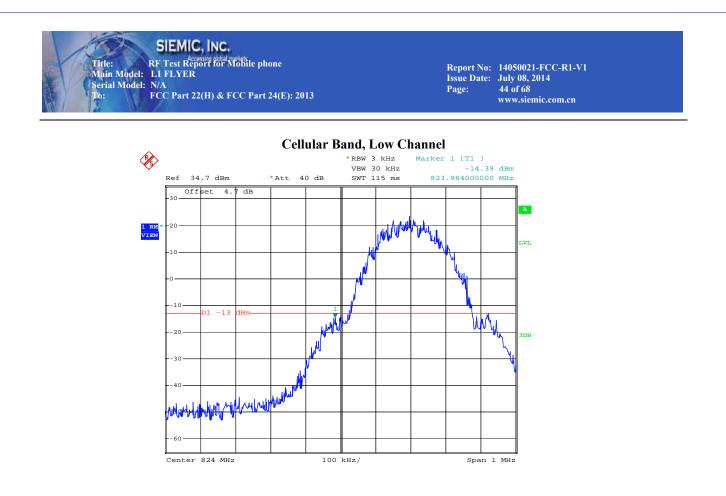
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.998	-14.09	-13
1910.020	-15.11	-13

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.90	-25.49	-13
849.32	-26.19	-13

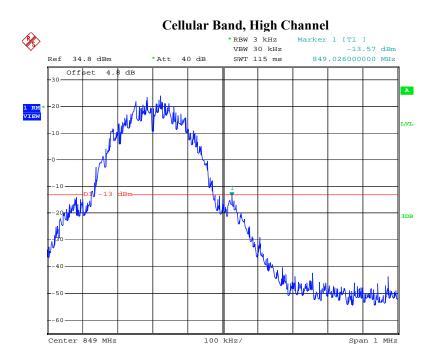
UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.900	-24.26	-13
1910.300	-23.04	-13



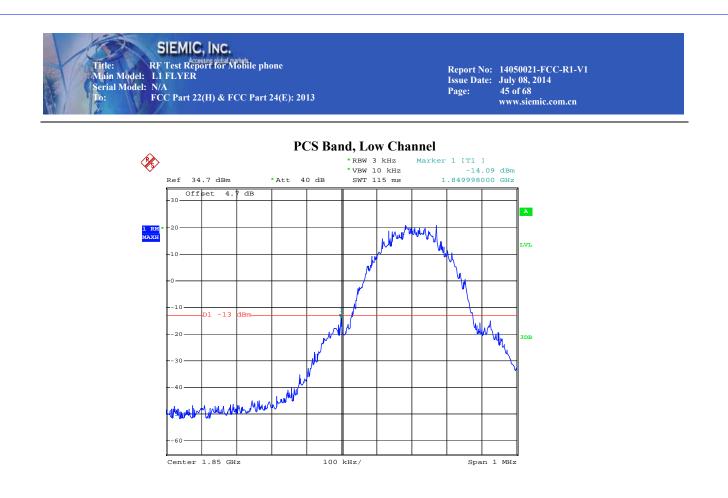
Date: 30.MAY.2014 11:48:09

Note: Offset=Cable loss (4.5) + 10log (3.17/3)=4.5+0.2=4.7 dB



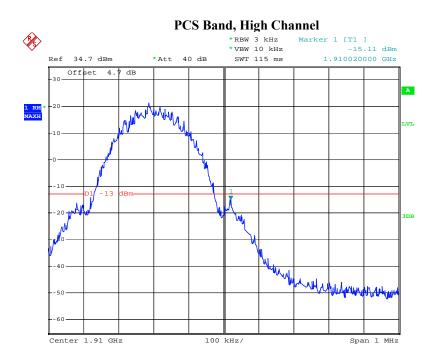
Date: 30.MAY.2014 11:55:40

Note: Offset=Cable loss (4.5) + 10log (3.18/3)=4.5+0.3=4.8dB



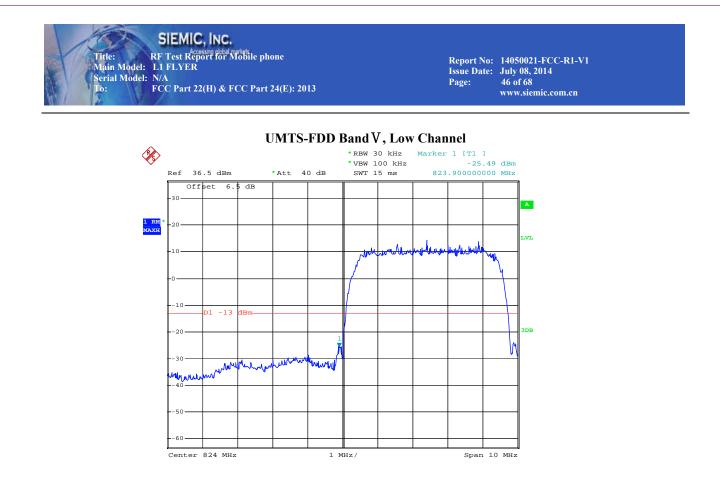
Date: 30.MAY.2014 12:19:32

Note: Offset=Cable loss (4.5) + 10log (3.15/3)=4.5+0.2=4.7 dB



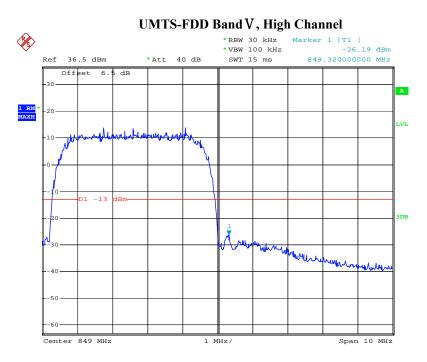
Date: 30.MAY.2014 12:18:06

Note: Offset=Cable loss (4.5) + 10log (3.13/3)=4.5+0.2=4.7 dB



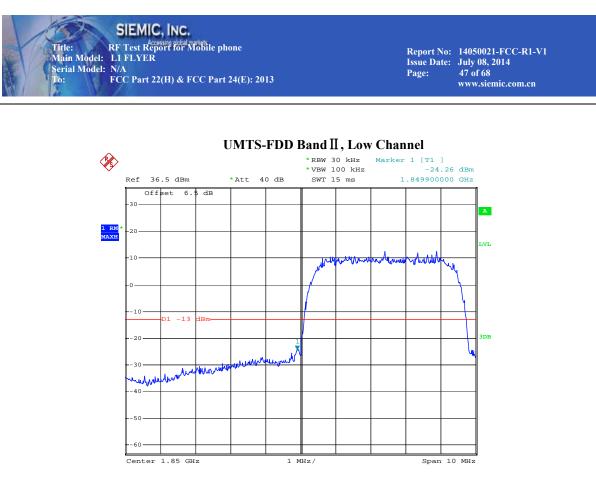
Date: 30.MAY.2014 17:38:03

Note: Offset=Cable loss (4.5) + 10log (4.73/3)=4.5+2=6.5 dB



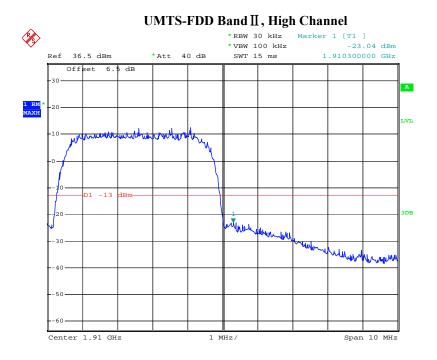
Date: 30.MAY.2014 17:36:52

Note: Offset=Cable loss (4.5) + 10log (4.73/3)=4.5+2=6.5 dB



Date: 30.MAY.2014 17:41:27

Note: Offset=Cable loss (4.5) + 10log (4.76/3)=4.5+2=6.5 dB



Date: 30.MAY.2014 17:44:50

Note: Offset=Cable loss (4.5) + 10log (4.80/3)=4.5+2=6.5 dB



Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:48 of 68www.siemic.com.cn

5.8 §2.1055, §22.355 & §24.235 - Frequency Stability

1.	Environmental Conditions	Temperature Relative Humidity Atmospheric Pressure	20°C 50% 1019mbar
2.	Test date : May 30, 2014 Tested By : Kevin Tian		

Standard Requirement:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

Frequency Tolerance for Transmitters in the Public Mobile Services

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

Procedures:

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Results: Pass

Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 49 of 68 www.siemic.com.cn

Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of -10° C to $+55^{\circ}$ C at normal supply voltage.

Middle Channel, f _o = 836.6 MHz					
Temperature (℃)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		-6	-0.0072	2.5	
0		5	0.0060	2.5	
10		2	0.0024	2.5	
20		9	0.0108	2.5	
30	3.7	-12	-0.0143	2.5	
40		7	0.0084	2.5	
50		-9	-0.0108	2.5	
55		11	0.0131	2.5	
25	4.2		0.0000	2.5	
23	3.5	4	0.0048	2.5	

Cellular Band (Part 22H)

PCS Band (Part 24E)

	Middle Channel, f _o = 1880 MHz				
Temperature (℃)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		22	0.0117	2.5	
0		-11	-0.0059	2.5	
10		13	0.0069	2.5	
20	3.7	16	0.0085	2.5	
30	5.7	20	0.0106	2.5	
40		8	0.0043	2.5	
50		-14	-0.0074	2.5	
55		-16	-0.0085	2.5	
25	4.2	18	0.0096	2.5	
23	3.5	-6	-0.0032	2.5	



Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:50 of 68www.siemic.com.cn

UMTS-FDD Band V (Part 22H)

Middle Channel, $f_0 = 835$ MHz				
Temperature (℃)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		28	0.0335	2.5
0		32	0.0383	2.5
10		16	0.0191	2.5
20		24	0.0287	2.5
30	3.7	30	0.0359	2.5
40		8	0.0096	2.5
50		18	0.0215	2.5
55		22	0.0263	2.5
25	4.2	16	0.0191	2.5
23	3.5	13	0.0155	2.5

UMTS-FDD Band II (Part 24E)

	Middle Channel, f _o = 1880 MHz					
Temperature (℃)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		18	0.0096	2.5		
0		24	0.0128	2.5		
10		14	0.0074	2.5		
20	3.7	6	0.0032	2.5		
30	5.7	-18	-0.0096	2.5		
40		16	0.0085	2.5		
50		-24	-0.0128	2.5		
55		-22	-0.0117	2.5		
25	4.2	-8	-0.0043	2.5		
23	3.5	12	0.0064	2.5		



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 51 of 68 www.siemic.com.cn

Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
RF conducted test				
Hp Spectrum Analyzer	8563E	3821A09023	09/27/2013	09/26/2014
Power Splitter	1#	1#	02/02/2014	02/01/2015
Temperature/Humidity Chamber	1007H	N/A	01/08/2014	01/07/2015
DC Power Supply	PS-305D	010943059	02/22/2014	02/21/2015
Radiated Emissions				
Hp Spectrum Analyzer	8563E	3821A09023	09/27/2013	09/26/2014
R&S EMI Receiver	ESPI3	101216	09/27/2013	09/26/2014
Antenna (30MHz~6GHz)	JB6	A121411	04/15/2014	04/14/2015
ETS-Lindgren Antenna(1 ~18GHz)	3115	N/A	10/09/2013	10/08/2014
Horn Antenna (18~40GHz)	AH-840	101013	04/22/2014	04/22/2015
Microwave Pre-Amp (18~40GHz)	PA-840	181250	05/29/2014	05/28/2015
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2013	10/26/2014
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	AMF-7D- 00101800- 30-10P	1451710	10/27/2013	10/26/2014
Chamber	3m	N/A	04/13/2014	04/12/2015



SIEMIC, INC. RF Test Report for Mobile phone I: L1 FLYER I: NA FCC Part 22(H) & FCC Part 24(E): 2013

Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 52 of 68 www.siemic.com.cn

Annex A. ii. RADIATED EMISSIONS TEST DESCRIPTION

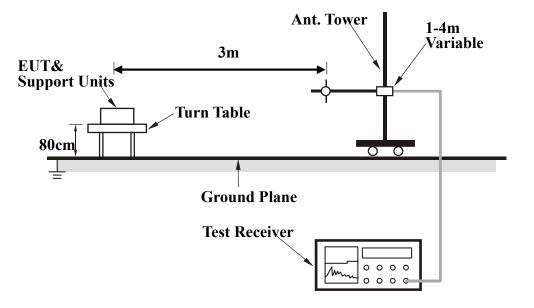
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 10th harmonic for operating frequencies \geq 108MHz),, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m or 10m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or EMC 3m chamber.

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
- 2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.





 Report No:
 14050021-FCC-R1-V1

 Issue Date:
 July 08, 2014

 Page:
 53 of 68

 www.siemic.com.cn

Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

- 1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

- 1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
- 2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site or EMC 10m chamber. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
- 3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
- 4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
- 5. Repeat step 4 until all frequencies need to be measured were complete.
- 6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band	Function	Resolution bandwidth	Video Bandwidth
(MHz)			
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Description of Radiated Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows: Peak = Reading + Corrected Factor

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any) And the average value is

Average = Peak Value + Duty Factor or Set RBW = 1MHz, VBW = 10Hz.

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 54 of 68 www.siemic.com.cn

Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Annex B.i. Photograph 1: EUT External Photo



All Packages - Front View



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 55 of 68 www.siemic.com.cn



EUT - Front View



EUT - Rear View



Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:56 of 68www.siemic.com.cn



EUT – Top View



EUT - Bottom View



Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:57 of 68www.siemic.com.cn



EUT - Left View



EUT - Right View



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 RF Test Report for Mobile phone

 Main Model:
 L1 FLYER

 Serial Model:
 N/A

 To:
 FCC Part 22(H) & FCC Part 24(E): 2013

Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 58 of 68 www.siemic.com.cn



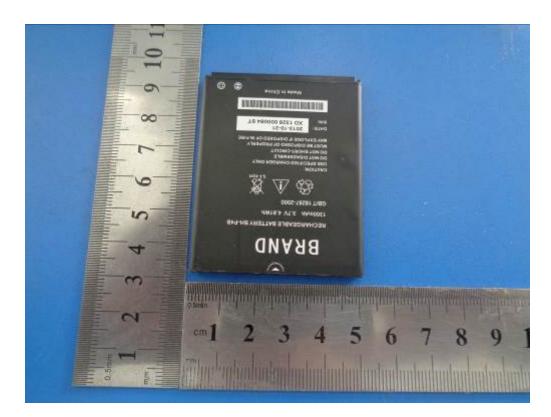
EUT – Uncover Front View 1



EUT – Uncover Front View 2



Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:59 of 68www.siemic.com.cn



EUT - Battery Front View



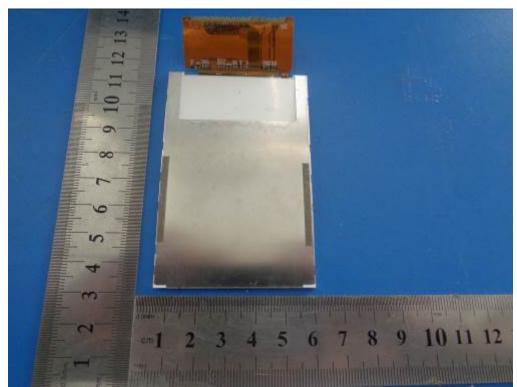
EUT – Battery Rear View



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 60 of 68 www.siemic.com.cn



LCD - Front View



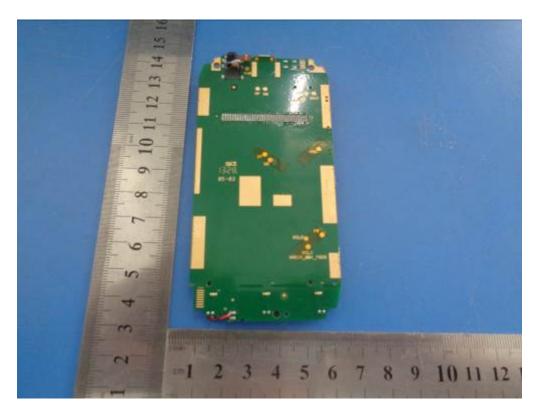
LCD - Rear View



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 61 of 68 www.siemic.com.cn



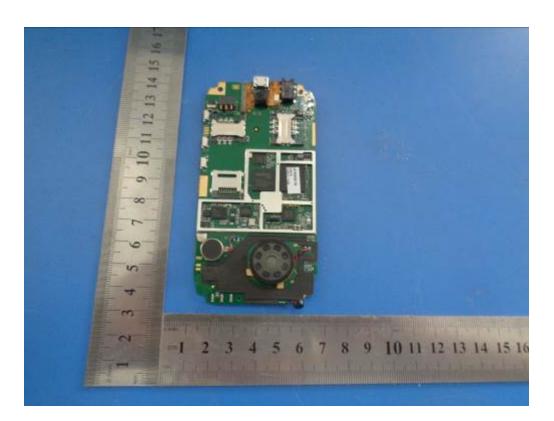
EUT – PCB Front View



EUT – PCB Rear View



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 62 of 68 www.siemic.com.cn



EUT – PCB Shielding Off Front View



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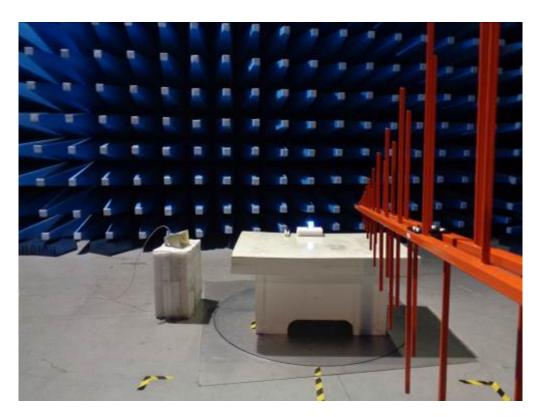
 Main Model:
 L1 FLYER

 Serial Model:
 N/A

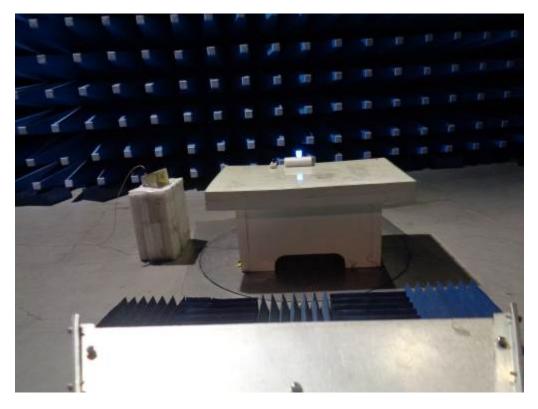
 To:
 FCC Part 22(H) & FCC Part 24(E): 2013

Report No:14050021-FCC-R1-V1Issue Date:July 08, 2014Page:63 of 68www.siemic.com.cn

Annex B.iii. Photograph 3: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz -Front View

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

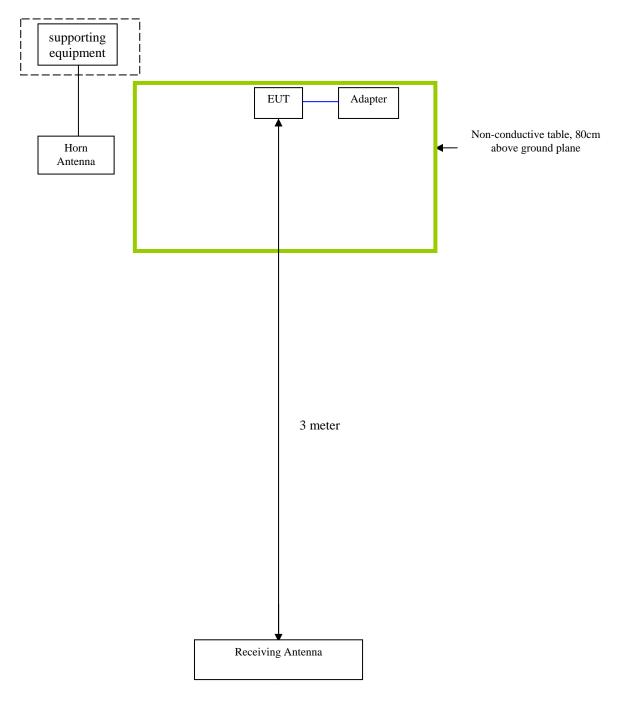
Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

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

Manufacturer	Equipment Description (Including Brand Name)	Model	Calibration Date	Calibration Due Date
A-INFOMW	Horn Antenna	JXTXLB-10180	10/09/2013	10/08/2014
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	09/27/2013	09/26/2014



Block Configuration Diagram for Radiated Emissions



 Report No:
 14050021-FCC-R1-V1

 Issue Date:
 July 08, 2014

 Page:
 66 of 68
 www.siemic.com.cn

Annex C.ii. **EUT OPERATING CONDITIONS**

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

Test	Description Of Operation	
Emissions Testing	The EUT was communicating with base station and set to work at maximum output power.	
Others Testing	The EUT was communicating with base station and set to work at maximum output power.	



 Report No:
 14050021-FCC-R1-V1

 Issue Date:
 July 08, 2014

 Page:
 67 of 68
 www.siemic.com.cn

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

Please see attachment



Report No: 14050021-FCC-R1-V1 Issue Date: July 08, 2014 Page: 68 of 68 www.siemic.com.cn

Annex E. DECLARATION OF SIMILARITY

NONE