

**SGS-CSTC Standards
Technical Services Co., Ltd.**

No. 588 West Jindu Road, Songjiang District, Shanghai, China

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FCC ID: VW3HILONC
Report No.: SHEMO090100019IT01
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FCC TEST REPORT

Application No.: SHEMO090100019IT01

Applicant: SAGEM COMMUNICATIONS

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

EUT Name: GSM/GPRS Module

Model No.: HILONC

Serial No.: Not supplied by client

GSM Frequency Bands: GSM850/PCS1900

Standards: CFR 47 part 2: 2008,
CFR 47 Part 15: 2008,
ANSI C63.4: 2003

Date of Receipt: January 09, 2009

Date of Test: January 09, 2009 to April 28, 2009

Date of Issue: April 28, 2009

Test Result :	PASS
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Authorized Signature:



Tino Pan
E&E Section Manager
SGS-CSTC Co., Ltd.



Jack Wu
E&E Project Engineer
SGS-CSTC Co., Ltd

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

All test results in this report can be traceable to National or International Standards.

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission 30MHz-1000MHz	CFR 47 Part 15:2008	ANSI C63.4: 2003	Class B	PASS
Conducted Emission 150KHz-30MHz	CFR 47 Part 15:2008	ANSI C63.4: 2003	Class B	PASS

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4 General Information

4.1 Client Information

Applicant: SAGEM COMMUNICATIONS
Address of Applicant: Le Ponan de Paris, 27 rue Leblanc, 75015 PARIS, France

4.2 General Description of E.U.T.

EUT Name: GSM/GPRS Module
Model No.: HILONC
Serial No.: Not supplied by client
GSM Frequency Bands: GSM850/PCS1900

4.3 Details of E.U.T.

Power Supply: DC 3.7V
Hardware Version: V2
Software Version: HIC, A

4.4 Description of Support Units

Name / Function	Model No	Remark
N/A	N/A	N/A

4.5 Standards Applicable for Testing

The customer requested EMC tests for GSM/GPRS Module.

The standards used was CFR 47 part 2: 2008 and CFR 47 part 15: 2008:

Table 1 : Tests Carried Out Under CFR 47 Part 15: 2008 :

Standard		Status
FCC Part 15 Subpart B: 2008	Radiated Emission	√
FCC Part 15 Subpart B: 2008	Conducted Emission	√

× Indicates that the test is not applicable
√ Indicates that the test is applicable

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4.6 Test Location

Radiated Emission was performed at:

SGS E&E EMC lab, No. 588 West Jindu Road, Songjiang District, Shanghai, China
Tel:+86 21 61915666 Fax: +86 21 61915655

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Monitoring of EUT for All Immunity Test

N/A

4.9 Test Confident level

Test Confident level is recognized, certified, or accredited by the following organizations:

CNAL – LAB Code: L0599

SGS EMC Laboratory has been assessed and in compliance with CNAL/AC01:2005 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements for the Competence of Testing Laboratories.)

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5 Equipments Used during Test

Radiated Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2008-06-19	2009-06-18
2	Receiver Antenna	SCHWARZBEC K	VULB9168	9168-313	2008-06-05	2009-06-04
3	CONTROLLER	INNCO	CO200	474	/	/
4	Communication Antenna	EUROPEAN ANTENNA	FPA-0.8-0.6R/1329	405156-0004	2008-12-01	2009-11-30
5	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU 200	105964	2008-04-25	2009-04-24

Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2008-06-27	2009-06-26
2	Line impedance stabilization network	ETS	3816/2	00034161	2008-07-31	2009-07-30

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General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY—2003P	/	2008-10-21	2009-10-20
2	CLAMP METER	FLUKE	316	86080010	2008-04-21	2009-04-20
3	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2008-10-21	2009-10-20
4	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2008-10-21	2009-10-20
5	DC Power	KIKUSUI	PMC35—3	NF100260	2008-11-05	2009-11-04

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6 Emission Test Results

6.1 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	CFR 47 Part 15:2008
Test Method:	ANSI C63.4:2003
Test Date:	January 09, 2009 to January 16, 2009
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Class:	N/A
Detector:	Peak for pre-scan (120kHz resolution bandwidth)

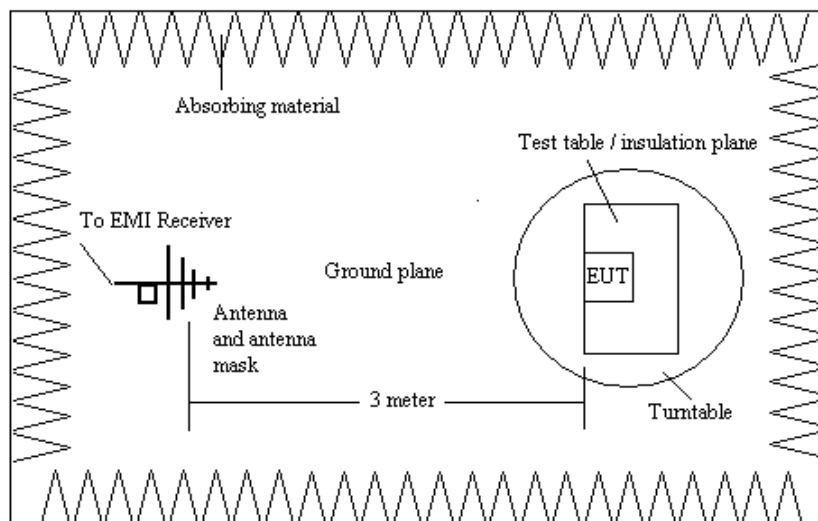
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 45 % RH Atmospheric Pressure: 1014 mbar

EUT Operation: EUT allocated channel mode Charging, GSM850 and PCS 1900

6.1.2 Test setup:



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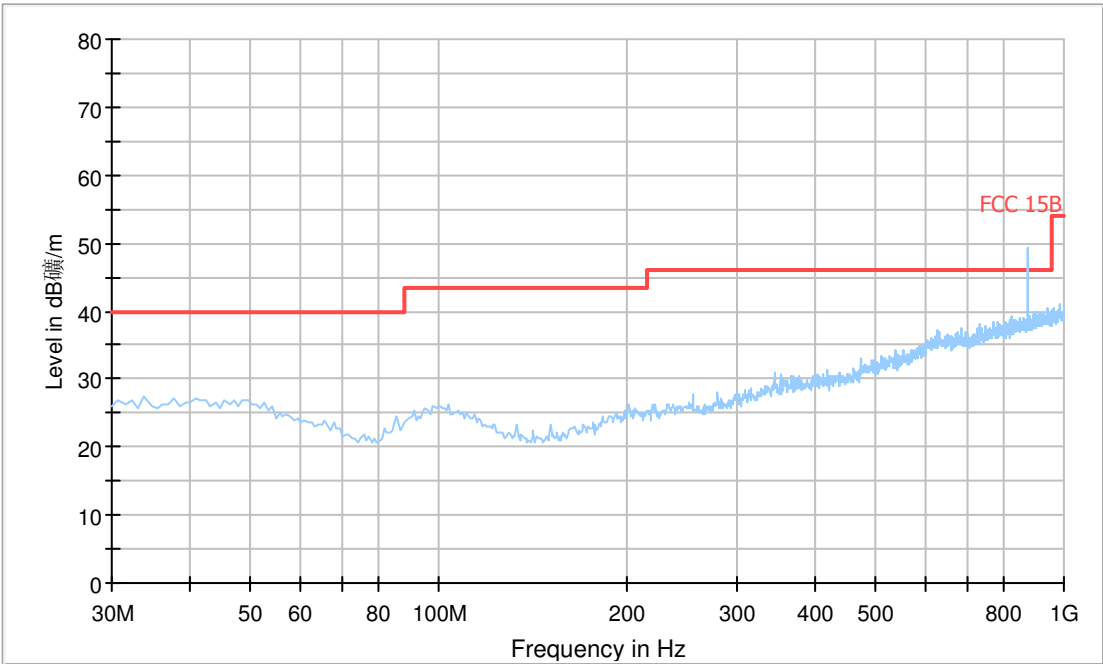
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6.1.3 Test Result:
GSM 850 idle mode:
Horizontal:

FCC15 RE 30M-1GHz



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Horizontal	*	40	*	-	-
45	Horizontal	*	40	*	-	-
88	Horizontal	*	43.5	*	-	-
150	Horizontal	*	43.5	*	-	-
216	Horizontal	*	46	*	-	-
560	Horizontal	*	46	*	-	-
960	Horizontal	*	54	*	-	-
1000	Horizontal	*	54	*		

1. All readings are Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

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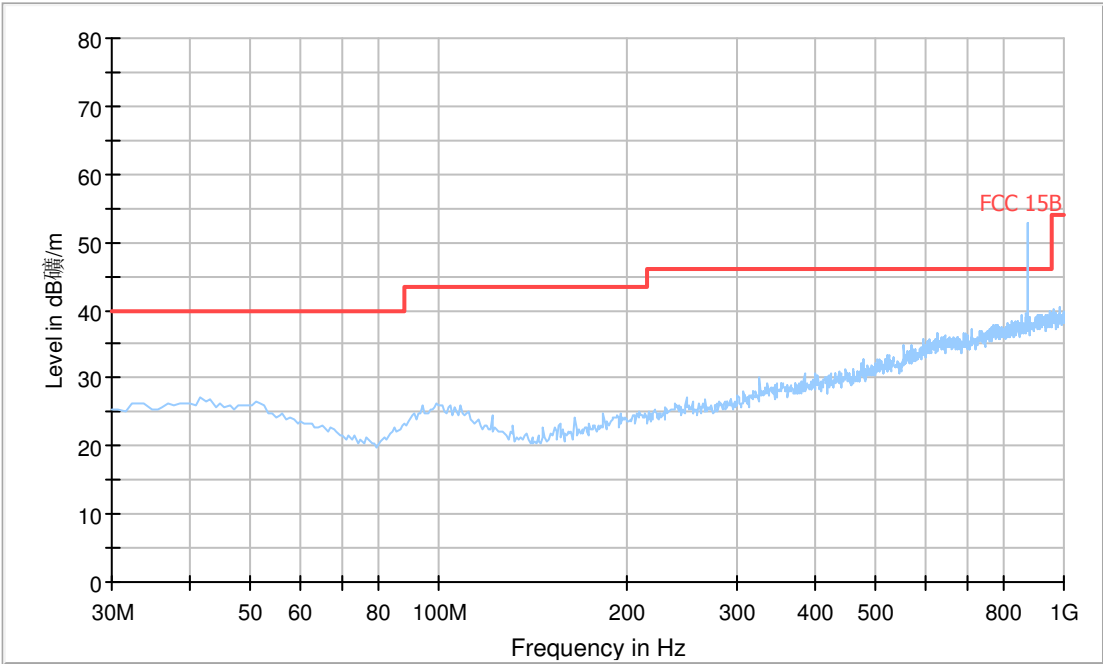
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Vertical:

FCC15 RE 30M-1GHz



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Vertical	*	40	*	-	-
45	Vertical	*	40	*	-	-
88	Vertical	*	43.5	*	-	-
150	Vertical	*	43.5	*	-	-
216	Vertical	*	46	*	-	-
560	Vertical	*	46	*	-	-
960	Vertical	*	54	*	-	-
1000	Vertical	*	54	*		

1. All readings are Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

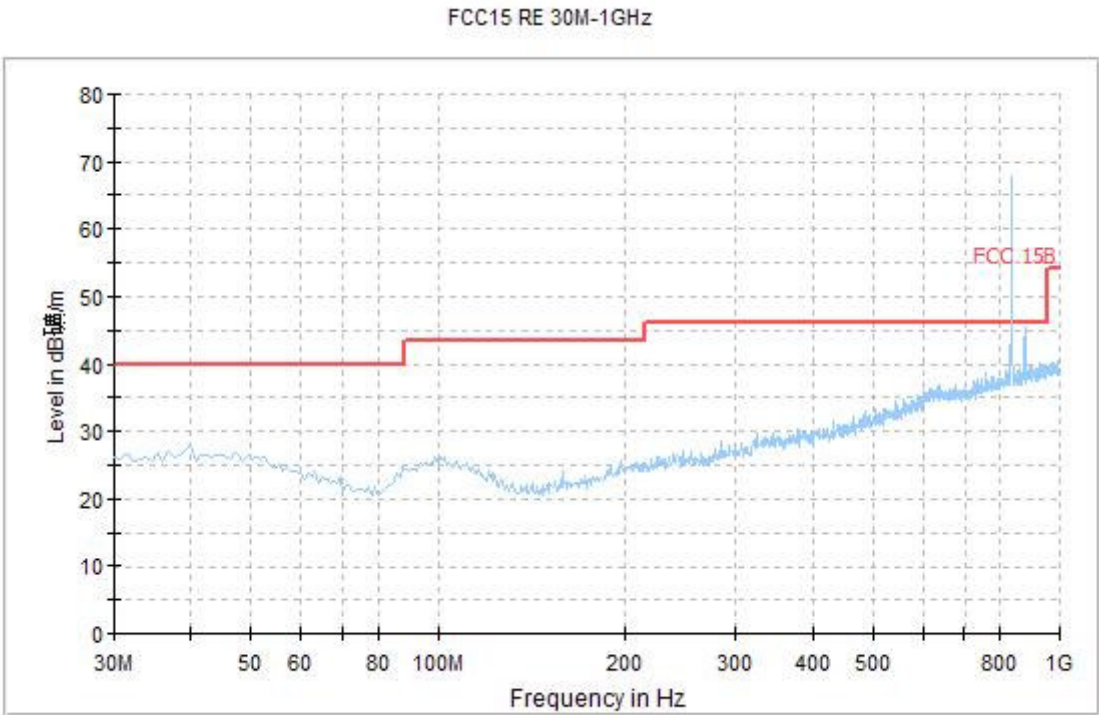
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GSM 850 communication mode:
Horizontal:



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Horizontal	*	40	*	-	-
45	Horizontal	*	40	*	-	-
88	Horizontal	*	43.5	*	-	-
150	Horizontal	*	43.5	*	-	-
216	Horizontal	*	46	*	-	-
560	Horizontal	*	46	*	-	-
960	Horizontal	*	54	*	-	-
1000	Horizontal	*	54	*		

1. All readings are Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

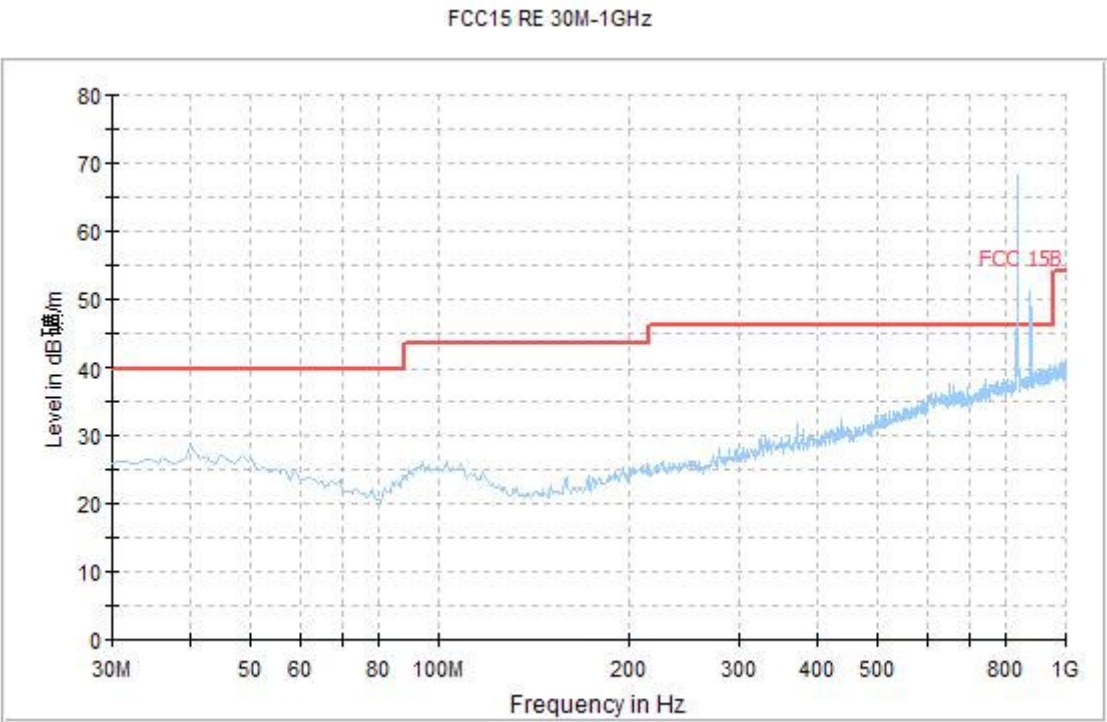
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Vertical:



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Vertical	*	40	*	-	-
45	Vertical	*	40	*	-	-
88	Vertical	*	43.5	*	-	-
150	Vertical	*	43.5	*	-	-
216	Vertical	*	46	*	-	-
560	Vertical	*	46	*	-	-
960	Vertical	*	54	*	-	-
1000	Vertical	*	54	*		

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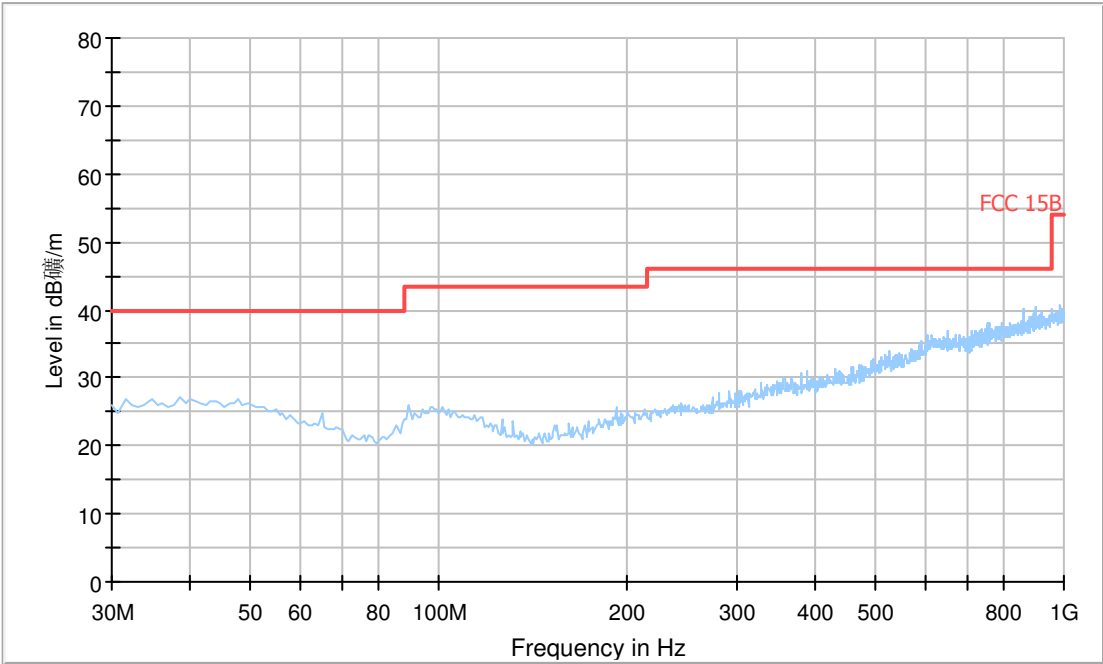
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PCS 1900 idle mode:
Horizontal:

FCC15 RE 30M-1GHz



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Horizontal	*	40	*	-	-
45	Horizontal	*	40	*	-	-
88	Horizontal	*	43.5	*	-	-
150	Horizontal	*	43.5	*	-	-
216	Horizontal	*	46	*	-	-
560	Horizontal	*	46	*	-	-
960	Horizontal	*	54	*	-	-
1000	Horizontal	*	54	*		

1. All readings are Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

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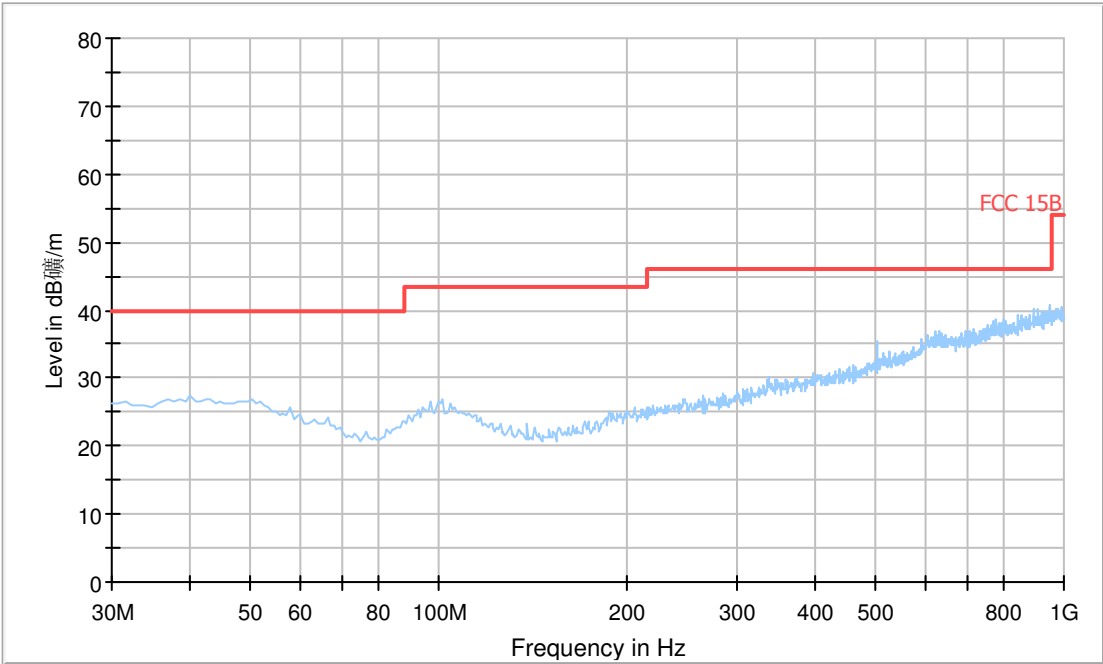
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Vertical:

FCC15 RE 30M-1GHz



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Vertical	*	40	*	-	-
45	Vertical	*	40	*	-	-
88	Vertical	*	43.5	*	-	-
150	Vertical	*	43.5	*	-	-
216	Vertical	*	46	*	-	-
560	Vertical	*	46	*	-	-
960	Vertical	*	54	*	-	-
1000	Vertical	*	54	*		

- 1. All readings are Peak values.
- 2. “*” means the emission level is 6 dB below the relevant limit.

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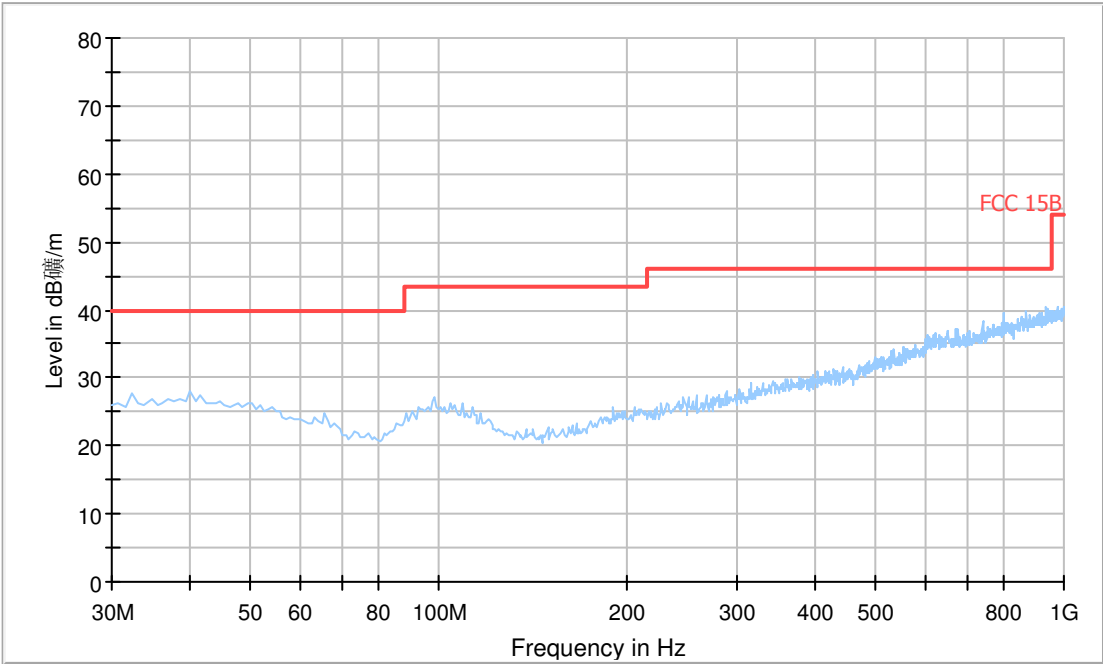
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PCS 1900 communication mode:
Horizontal:

FCC15 RE 30M-1GHz



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Horizontal	*	40	*	-	-
45	Horizontal	*	40	*	-	-
88	Horizontal	*	43.5	*	-	-
150	Horizontal	*	43.5	*	-	-
216	Horizontal	*	46	*	-	-
560	Horizontal	*	46	*	-	-
960	Horizontal	*	54	*	-	-
1000	Horizontal	*	54	*		

1. All readings are Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

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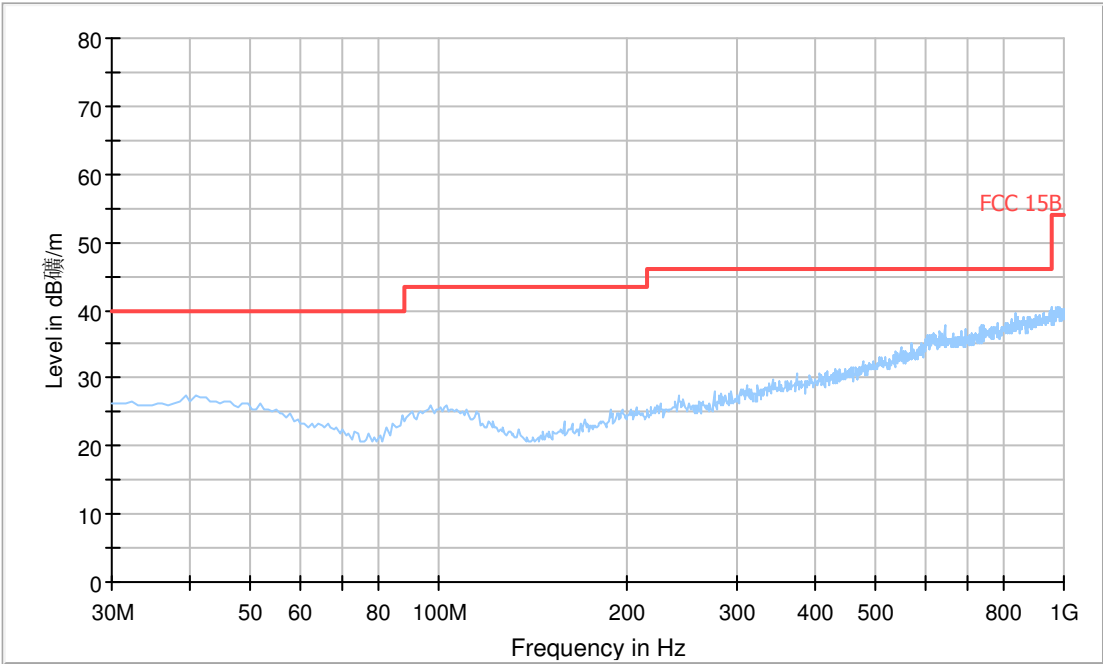
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Vertical:

FCC15 RE 30M-1GHz



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Vertical	*	40	*	-	-
45	Vertical	*	40	*	-	-
88	Vertical	*	43.5	*	-	-
150	Vertical	*	43.5	*	-	-
216	Vertical	*	46	*	-	-
560	Vertical	*	46	*	-	-
960	Vertical	*	54	*	-	-
1000	Vertical	*	54	*	-	-

1. All readings are Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

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6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15:2008
Test Method:	ANSI C63.4:2003
Test Date:	January 09, 2009 to April 28, 2009
Frequency Range:	150kHz to 30MHz
Class:	Class B
Limit:	66 dB μ V - 56 dB μ V between 150kHz & 500kHz Quasi-peak 56 dB μ V between 0.5MHz & 5MHz Quasi-peak 60 dB μ V between 5MHz & 30MHz Quasi-peak

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0°C Humidity: 56% RH Atmospheric Pressure: 1004 mbar

EUT Operation: EUT allocated channel mode Charging, GSM850 and PCS 1900

6.2.2 Test Result and Partial Measurement Data

Pass

An initial pre-scan was performed in the Shielding room using the receiver in peak detection mode. The EUT was measured for 2 lines and peak emissions from the EUT were detected within 6dB of the class B limit line.

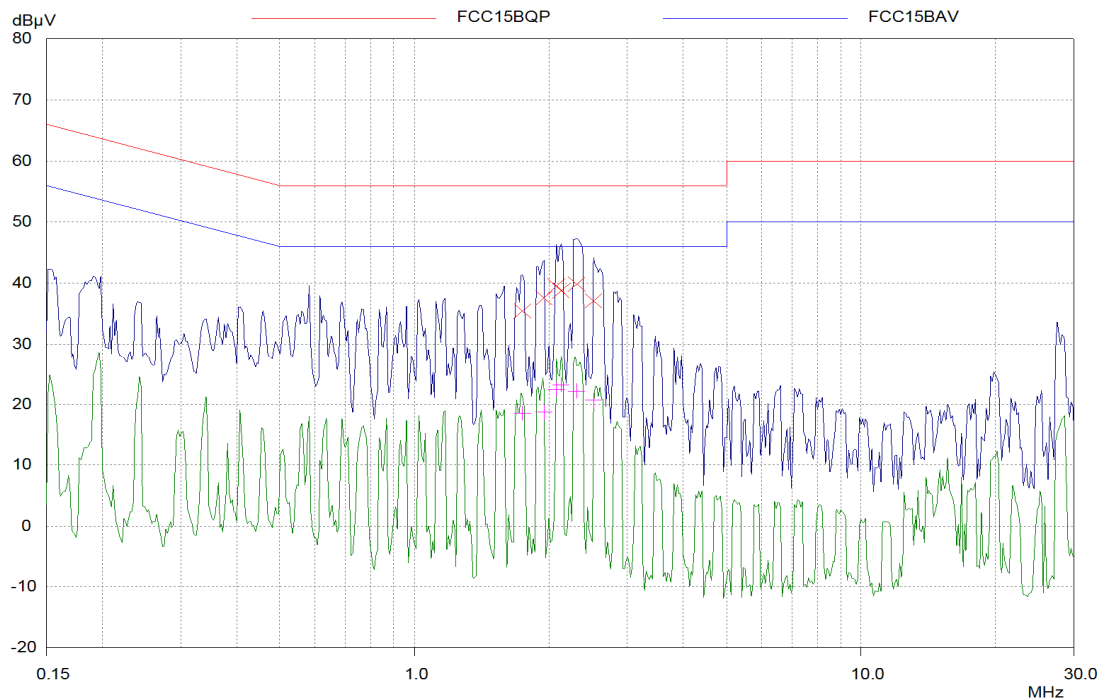
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PCS 1900 dedicated:
L line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
1.74556	35.46	56.00	20.54
1.95156	37.57	56.00	18.43
2.08001	39.54	56.00	16.46
2.13033	38.78	56.00	17.22
2.30703	39.86	56.00	16.14
2.51837	37.12	56.00	18.88

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
1.74556	18.50	46.00	27.50
1.95156	18.70	46.00	27.30
2.08001	22.42	46.00	23.58
2.13033	23.16	46.00	22.84
2.30703	22.14	46.00	23.86
2.51837	20.63	46.00	25.37

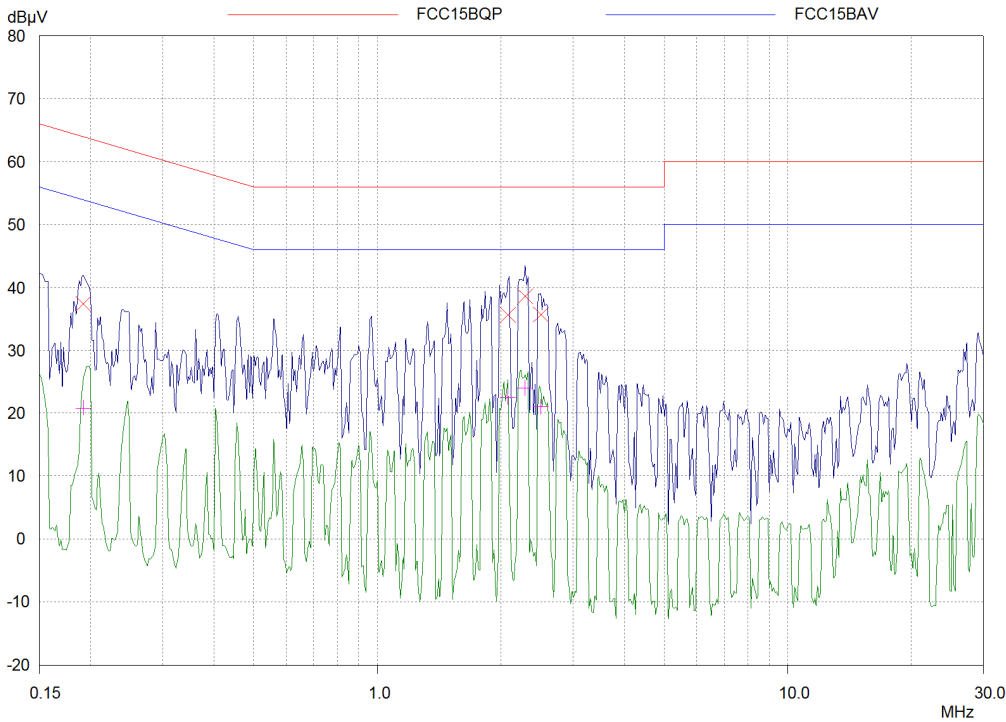
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.19202	37.40	63.95	26.55
2.08001	35.66	56.00	20.34
2.28872	38.57	56.00	17.43
2.49838	35.70	56.00	20.30

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.19202	20.71	53.95	33.24
2.08001	22.37	46.00	23.63
2.28872	23.89	46.00	22.11
2.49838	20.86	46.00	25.14

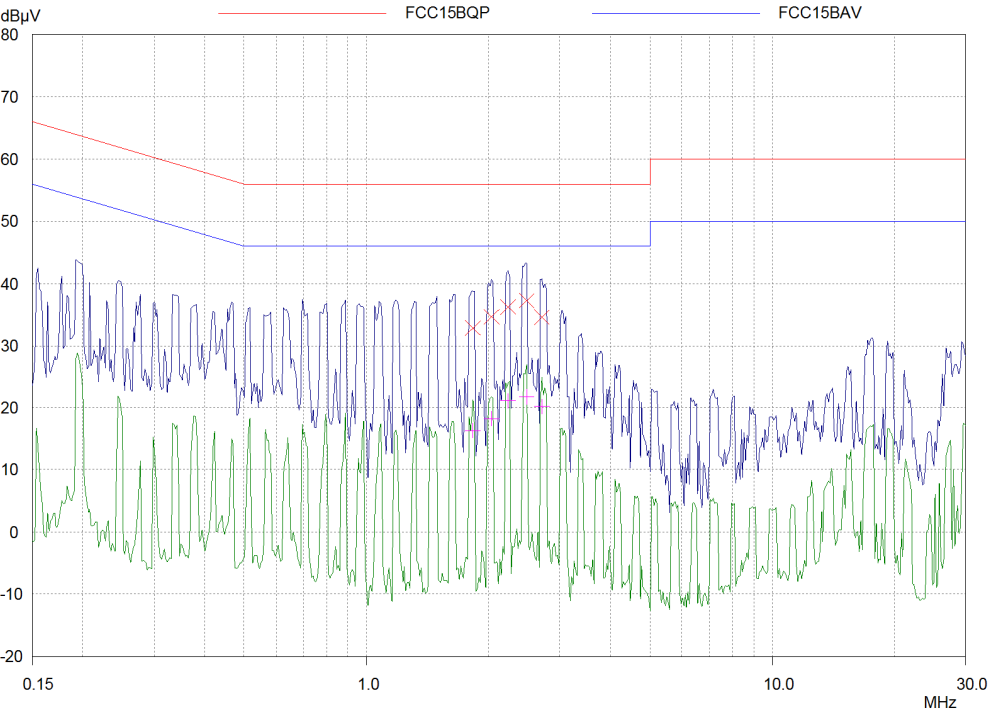
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GSM 850 dedicated:
L line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
1.83104	32.86	56.00	23.14
2.03087	34.64	56.00	21.36
2.23466	36.24	56.00	19.76
2.47855	37.26	56.00	18.74
2.7056	34.60	56.00	21.40

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
1.83104	16.23	46.00	29.77
2.03087	18.14	46.00	27.86
2.23466	21.03	46.00	24.97
2.47855	21.68	46.00	24.32
2.7056	20.09	46.00	25.91

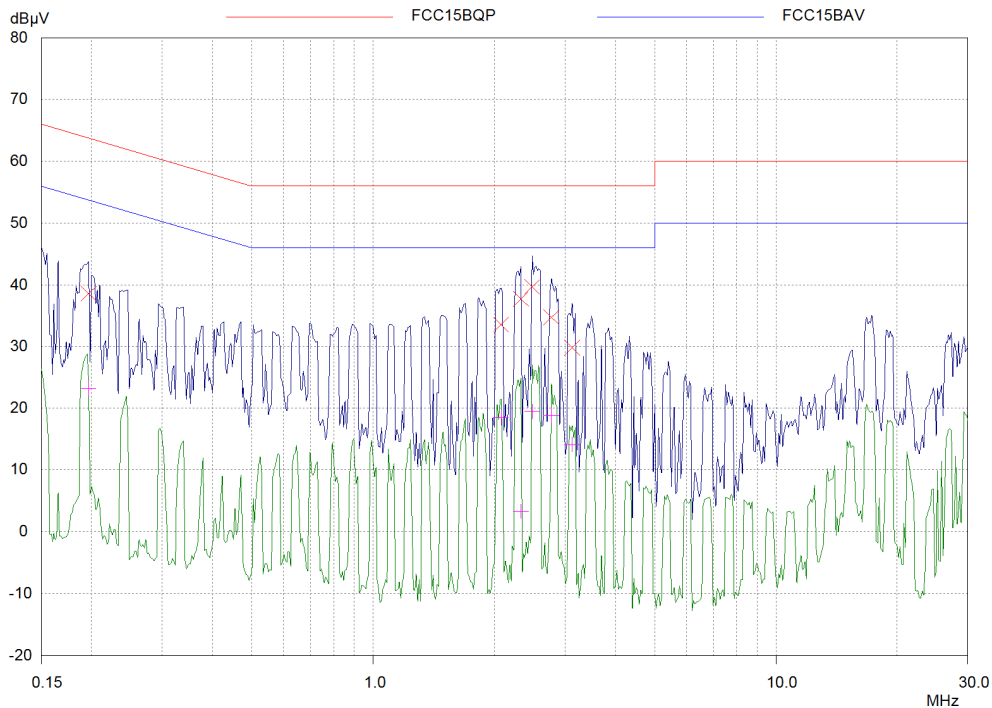
SGS-CSTC Standards
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.19667	38.61	63.75	25.14
2.08001	33.54	56.00	22.46
2.32548	37.71	56.00	18.29
2.47855	39.68	56.00	16.32
2.77106	34.73	56.00	21.27
3.12287	29.83	56.00	26.17

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.19667	23.08	53.75	30.67
2.08001	18.36	46.00	27.64
2.32548	3.24	46.00	42.76
2.47855	19.40	46.00	26.60
2.77106	18.74	46.00	27.26
3.12287	14.02	46.00	31.98

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7 Photographs

7.1 Radiated Emission Test Setup



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7.2 Conducted Emission Test Setup



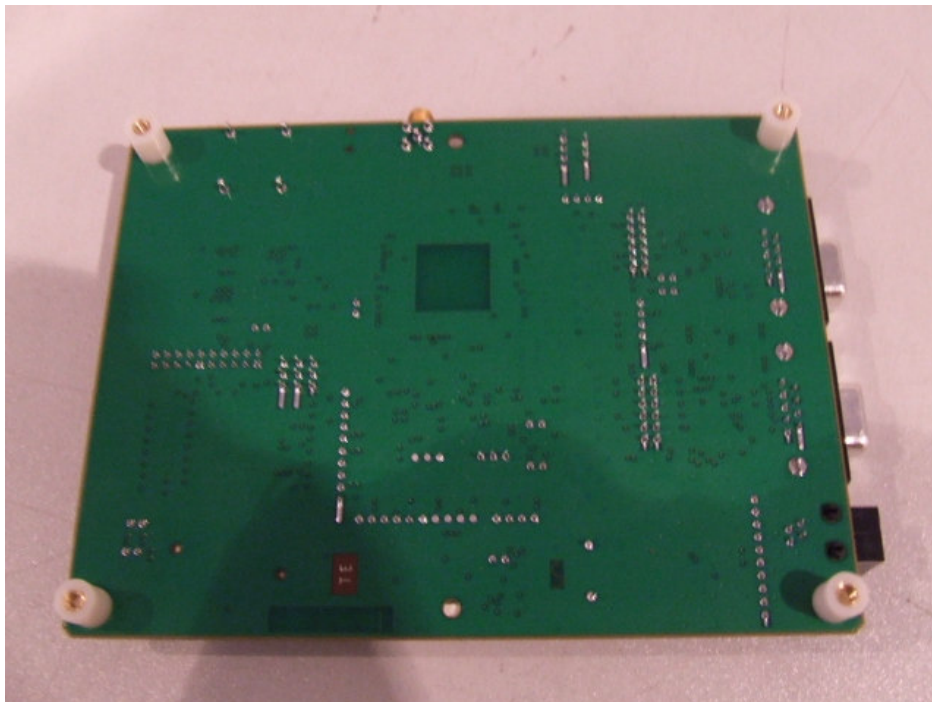
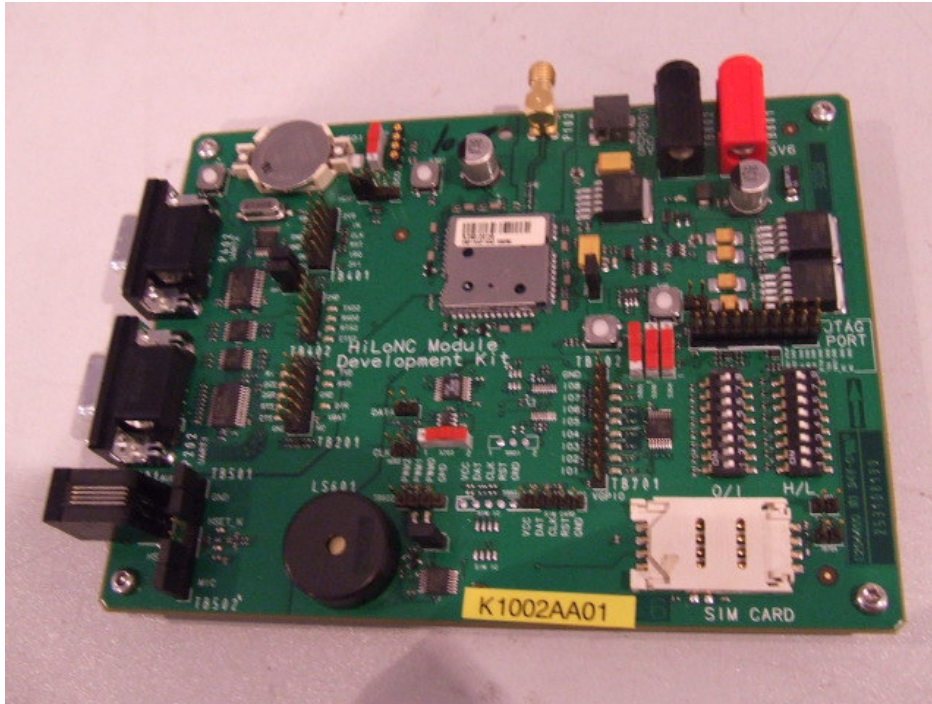
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8 EUT Constructional Details



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THE END OF REPORT