



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B REQUIREMENT

OF

Product Name: Triband 900/1800/1900 handset

Brand Name: Sagem

Model Name: E2006

Market Name: N/A

Report No.: EI/2006/40004

Issue Date: May. 23, 2006

FCC Rule Part: Part 15 B

Prepared for Sagem Communication
2, rue du Petit Albi, 95800 Cergy
Saint-Christophe, France

Prepared by SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Sagem Communication
2, rue du Petit Albi, 95800 Cergy Saint-Christophe, France

Product Description: Triband 900/1800/1900 handset

Brand Name: Sagem

Market Name: N/A

Model No.: E2006

Model Difference: N/A

File Number: EI/2006/40004

Date of test: Apr. 29, 2006 ~ May. 22, 2006

Date of EUT Receive: Apr. 28, 2006

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B.

The test results of this report relate only to the tested sample identified in this report.

Test By:		Date	May. 23, 2006
	Sky Wang		
Prepared By:		Date	May. 23, 2006
	Gigi Yeh		
Approved By:		Date	May. 23, 2006
	Vincent Su		

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Version

Version No.	Date
00	May. 23, 2006

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1. GENERAL INFORMATION

1.1 Product Description

Product	Triband 900/1800/1900 handset	
Model Name	E2006	
Model Difference:	N/A	
Trade Name	Sagem	
Rated Power Supply	3.7V DC by rechargeable battery or 5VDC by AC/DC power adapter	
	Adaptor	Trade Name: SAGEM Supplier: Astec Model Name: 1. DCH3-050US / 18 919 521-1 2. DCH3-050EU / 18 919 497-0 3. DCH3-050UK / 18 919 499-1 4. DCH3-050AU /18 919 495-9

GSM:

Frequency Range and Power	GSM 900, TX: 880MHz – 915MHz	33 dBm
	GSM 1800, TX:1710MHz-1785MHz	30 dBm
	GSM 1900, TX: 1850MHz –1910MHz	30 dBm
Type of Emission	300KGXW	
Software Version	L,K02	
Hardware Version	V01X	
IMEI	359243000000219	
	359243000000326	

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Bluetooth:

Frequency Range	2402 – 2480MHz
Channel number	79 channels
Rated Power	-0.04 dBm
Modulation type	Frequency Hopping Spread Spectrum (FHSS)
Antenna Designation	Metal Antenna, -2.83 dBi, Non-User Replaceable (Fixed)

The EUT is compliance with Bluetooth Standard.

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC Part15 Subpart B is authorized under a DoC procedure.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by CNLA (0513).

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1 EUT Configuration

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

2.2 EUT Exercise

The EUT was operated in the normal continuous transmitting.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.4-2003.

2.4 Limitation

(1) Conducted Emission

According to section 15.107(a) Conducted Emission Limits is as following.

Frequency range MHz	Class B Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

(2) Radiated Emission

According to section 15.109(a) Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Remark: 1. Emission level in $\text{dB}\mu\text{V/m}=20 \log (\mu\text{V/m})$
2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Data link)

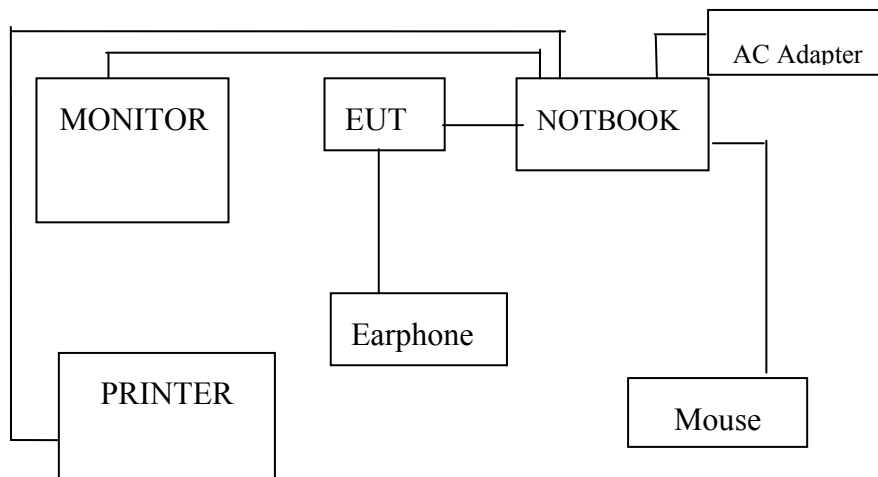
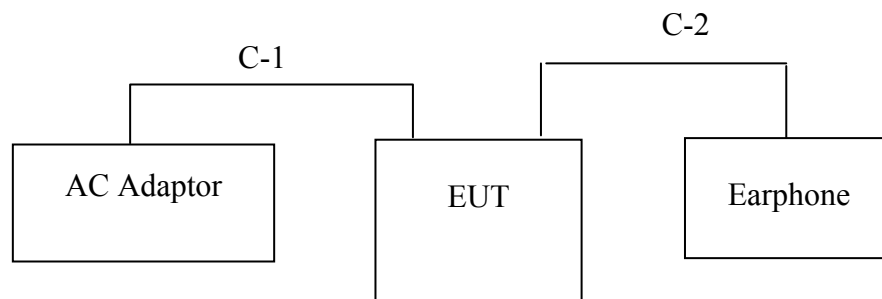


Fig. 2-2 Configuration of Tested System (GSM 1900+BT link)



Remote Side(on the corner)



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	Earphone, C2	Sagem	N/A	18916164-5	1.2Shielded	N/A
2.	Battery	Sagem	N/A	287073851	N/A	N/A
3.	AC Adaptor, C1	Sagem	DCH3-050US	18 919 521-1	1.5m, Un-Shielded	Un-shielded
4.	USB Cable	Sagem	N/A	18 924 221-8	1.2m, Shielded	N/A

Table 2-2 Support Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Notebook	Compaq	Presario 2100	CNF2450Q1R	N/A	Un-shielded
2	Monitor	HP	PE1233	N/A	Shielded	Un-shielded
3	Printer	HP	DJ640C	TH12QE110Y	Shielded	Un-shielde
4	Mouse	HP	P8131-D	K023302209	Shielded	N/A
5	BT headset	Sagem	189033747	18916164-5	N/A	N/A
.6	Communication Tester	R&S	CMU200	102189	N/A	N/A

3. Summary of Test Results

FCC Rules	Description Of Test	Result
§ 15.107	Conducted Emission Class B	Compliant
§ 15.109	Radiated Emission Class B	Compliant

4. Description of test modes

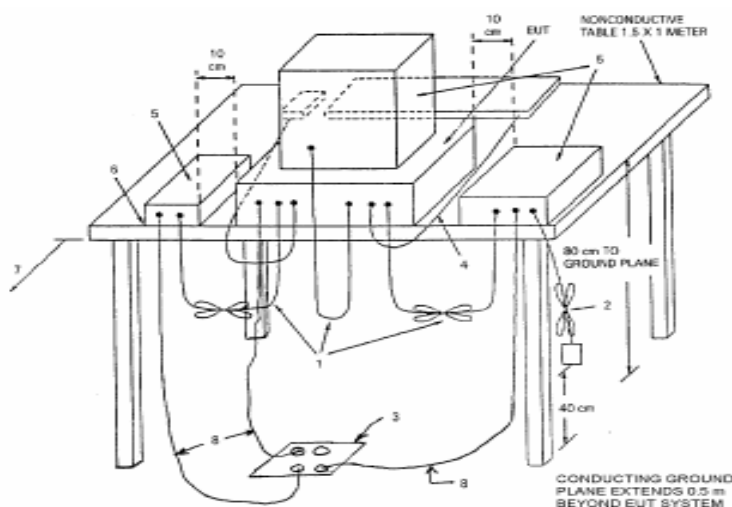
The EUT is stay in normal GSM+BT operating and USB link modes.

5. Conducted Emissions Test

5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

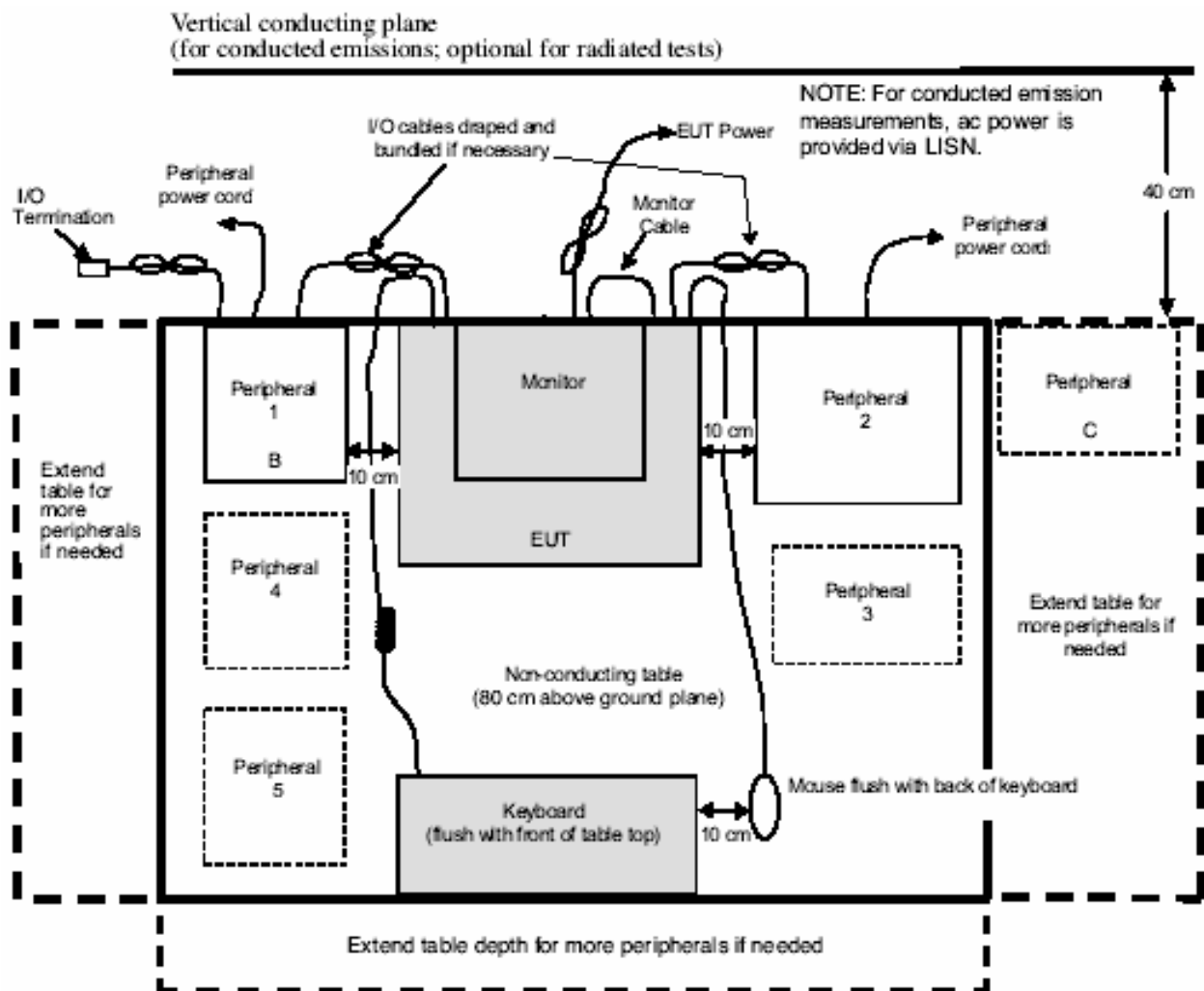
5.2 Test SET-UP (Block Diagram of Configuration)



LEGEND:

- 1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center, forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using the correct terminating impedance. The total length shall not exceed 1 m (see 6.1.4).
- 3) If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the groundplane with the receptacle flush with the groundplane (see 6.1.4).
- 4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (see 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- 6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) No vertical conducting plane used (see 5.2.2).
- 8) Power cords drape to the floor and are routed over to receptacle (see 6.1.4).

Figure 11a—Test arrangement for radiated emissions tabletop equipment



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5.4 Measurement Result:

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900+BT link

Test Date : May. 04, 2006

Fundamental Frequency : N/A

Test By : Willis

Temperature : 25°C

Pol : Line

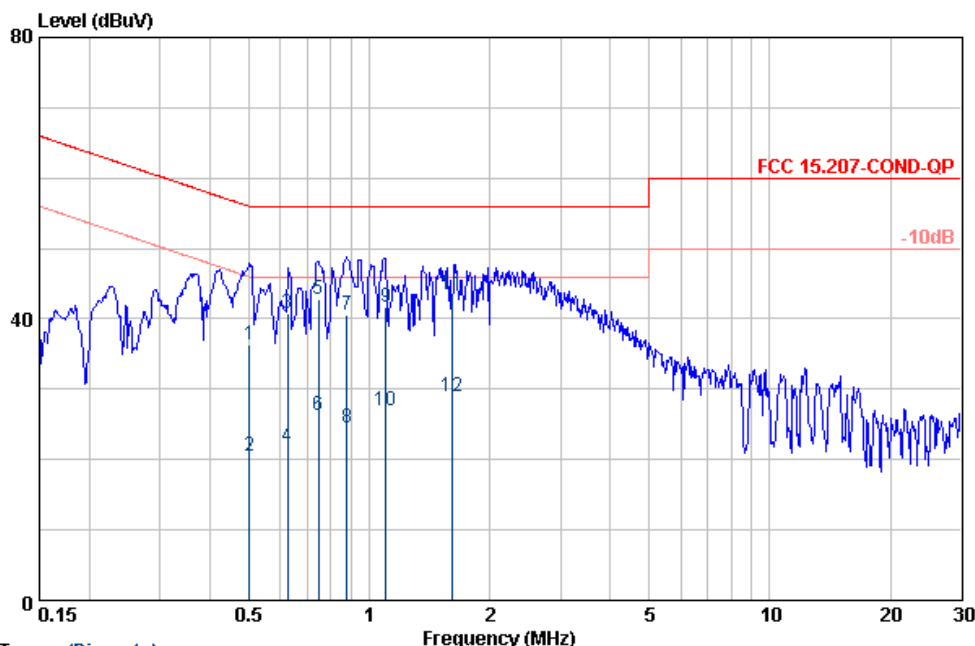
Humidity : 65%

Adaptor Model : DCH3-050AU

Test Voltage : 110Vac

Supplier: Astec

Data: 7



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) LINE
Project No. : EI/2006/40004
Applicant : SAGEM
EUT Description : Triband 900/1800/1900 headset
EUT Model : E2006//ADAPTER MODEL:DCH3-050AU
Test Mode : GSM1900 LINK
Temp./Humid. : 25/65
Operator : WILLIS

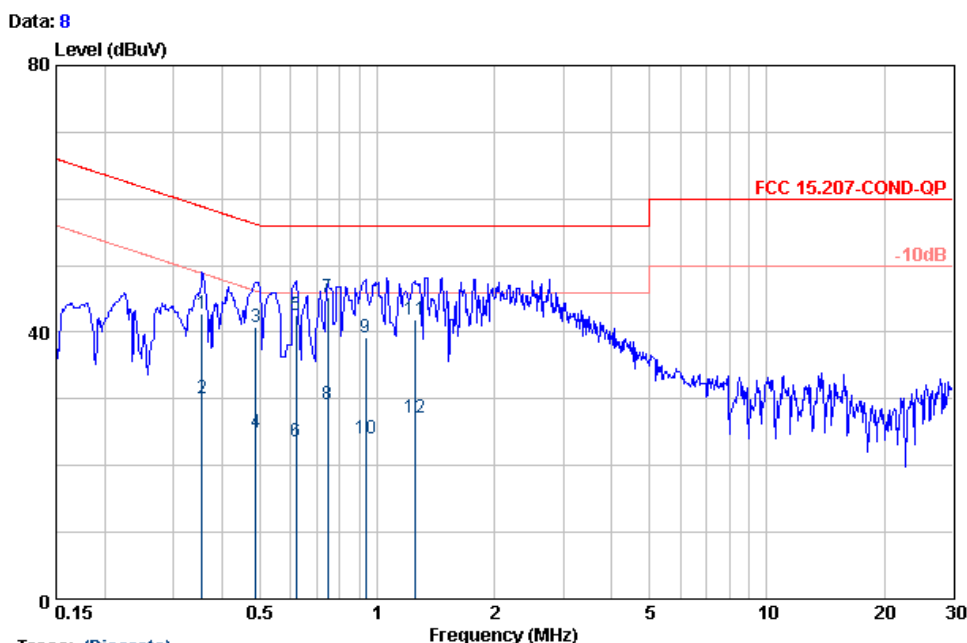
	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.50	LINE	36.20	0.20	36.40	56.00	-19.60	QP
2	0.50	LINE	20.39	0.20	20.59	56.00	-35.41	AVERAGE
3	0.62	LINE	40.66	0.21	40.87	56.00	-15.13	QP
4	0.62	LINE	21.65	0.21	21.86	56.00	-34.14	AVERAGE
5	0.75	LINE	42.69	0.21	42.90	56.00	-13.10	QP
6	0.75	LINE	26.09	0.21	26.30	56.00	-29.70	AVERAGE
7	0.88	LINE	40.27	0.21	40.48	56.00	-15.52	QP
8	0.88	LINE	24.20	0.21	24.41	56.00	-31.59	AVERAGE
9	1.10	LINE	41.36	0.21	41.57	56.00	-14.43	QP
10	1.10	LINE	26.72	0.21	26.93	56.00	-29.07	AVERAGE
11	1.61	LINE	43.14	0.22	43.36	56.00	-12.64	QP
12	1.61	LINE	28.77	0.22	28.99	56.00	-27.01	AVERAGE

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900+BT link
Fundamental Frequency : N/A
Temperature : 25°C
Humidity : 65%
Test Voltage : 110Vac

Test Date : May. 04, 2006
Test By : Willis
Pol : Neutral
Adaptor Model : DCH3-050AU
Supplier : Astec



Site : RF Site
Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) NEUTRAL
Project No. : EI/2006/40004
Applicant : SAGEM
EUT Description : Triband 900/1800/1900 headset
EUT Model : E2006//ADAPTER MODEL:DCH3-050AU
Test Mode : GSM1900 LINK
Temp./Humid. : 25/65
Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.36	NEUTRAL	42.65	0.20	42.85	58.83	-15.98	QP
2	0.36	NEUTRAL	29.83	0.20	30.03	58.83	-28.80	AVERAGE
3	0.49	NEUTRAL	40.68	0.20	40.88	56.19	-15.31	QP
4	0.49	NEUTRAL	24.86	0.20	25.06	56.19	-31.13	AVERAGE
5	0.62	NEUTRAL	42.36	0.21	42.57	56.00	-13.43	QP
6	0.62	NEUTRAL	23.39	0.21	23.60	56.00	-32.40	AVERAGE
7	0.75	NEUTRAL	45.09	0.21	45.30	56.00	-10.70	QP
8	0.75	NEUTRAL	29.01	0.21	29.22	56.00	-26.78	AVERAGE
9	0.93	NEUTRAL	39.09	0.21	39.30	56.00	-16.70	QP
10	0.93	NEUTRAL	23.81	0.21	24.02	56.00	-31.98	AVERAGE
11	1.25	NEUTRAL	41.77	0.21	41.98	56.00	-14.02	QP
12	1.25	NEUTRAL	26.95	0.21	27.16	56.00	-28.84	AVERAGE

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900+BT link

Fundamental Frequency : N/A

Temperature : 25°C

Humidity : 65%

Test Voltage : 110Vac

Test Date : May. 04, 2006

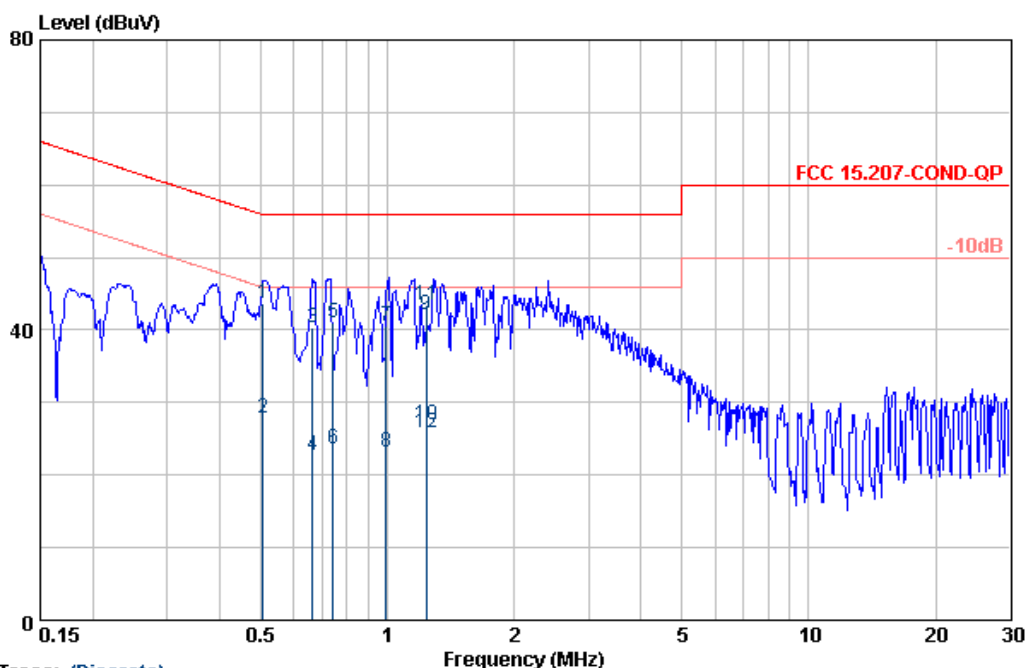
Test By : Willis

Pol : Line

Adaptor Model : DCH3-050EU

Supplier: Astec

Data: 3



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) LINE
Project No. : EI/2006/40004
Applicant : SAGEM
EUT Description : Triband 900/1800/1900 headset
EUT Model : E2006//ADAPTER MODEL:DCH3-050EU
Test Mode : GSM1900 LINK
Temp./Humid. : 25/65
Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.51	LINE	43.43	0.20	43.63	56.00	-12.37	QP
2	0.51	LINE	27.62	0.20	27.82	56.00	-28.18	AVERAGE
3	0.66	LINE	40.07	0.21	40.28	56.00	-15.72	QP
4	0.66	LINE	22.44	0.21	22.65	56.00	-33.35	AVERAGE
5	0.74	LINE	40.75	0.21	40.96	56.00	-15.04	QP
6	0.74	LINE	23.52	0.21	23.73	56.00	-32.27	AVERAGE
7	0.99	LINE	40.36	0.21	40.57	56.00	-15.43	QP
8	0.99	LINE	23.02	0.21	23.23	56.00	-32.77	AVERAGE
9	1.23	LINE	41.86	0.21	42.07	56.00	-13.93	QP
10	1.23	LINE	26.72	0.21	26.93	56.00	-29.07	AVERAGE
11	1.24	LINE	43.17	0.21	43.38	56.00	-12.62	QP
12	1.24	LINE	25.54	0.21	25.75	56.00	-30.25	AVERAGE

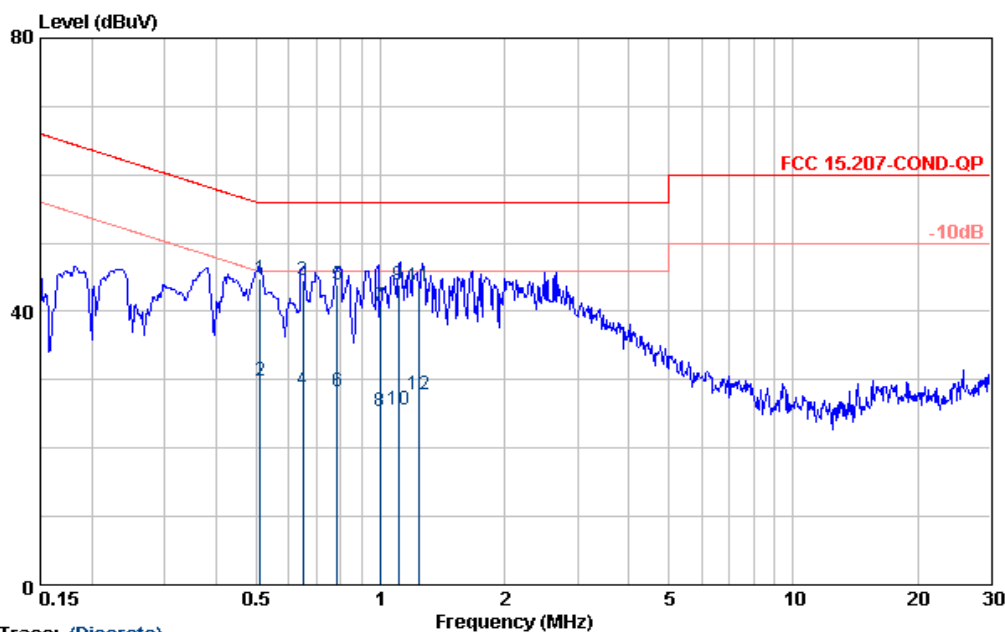
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 Fundamental Frequency : N/A
 Temperature : 25°C
 Humidity : 65%
 Test Voltage : 110Vac

Test Date : May. 04, 2006
 Test By : Willis
 Pol : Neutral
 Adaptor Model : DCH3-050EU
 Supplier : Astec

Data: 4



Trace: (Discrete)

Site : RF Site
 Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) NEUTRAL
 Project No. : EI/2006/40004
 Applicant : SAGEM
 EUT Description : Triband 900/1800/1900 headset
 EUT Model : E2006//ADAPTER MODEL:DCH3-050EU
 Test Mode : GSM1900 LINK
 Temp./Humid. : 25/65
 Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.51	NEUTRAL	44.54	0.20	44.74	56.00	-11.26	QP
2	0.51	NEUTRAL	29.72	0.20	29.92	56.00	-26.08	AVERAGE
3	0.65	NEUTRAL	44.42	0.21	44.63	56.00	-11.37	QP
4	0.65	NEUTRAL	28.37	0.21	28.58	56.00	-27.42	AVERAGE
5	0.79	NEUTRAL	43.78	0.21	43.99	56.00	-12.01	QP
6	0.79	NEUTRAL	28.06	0.21	28.27	56.00	-27.73	AVERAGE
7	1.00	NEUTRAL	40.59	0.21	40.80	56.00	-15.20	QP
8	1.00	NEUTRAL	25.17	0.21	25.38	56.00	-30.62	AVERAGE
9	1.11	NEUTRAL	43.58	0.21	43.79	56.00	-12.21	QP
10	1.11	NEUTRAL	25.44	0.21	25.65	56.00	-30.35	AVERAGE
11	1.24	NEUTRAL	43.58	0.21	43.79	56.00	-12.21	QP
12	1.24	NEUTRAL	27.73	0.21	27.94	56.00	-28.06	AVERAGE

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900+BT link

Fundamental Frequency : N/A

Temperature : 25°C

Humidity : 65%

Test Voltage : 110Vac

Test Date : May. 04, 2006

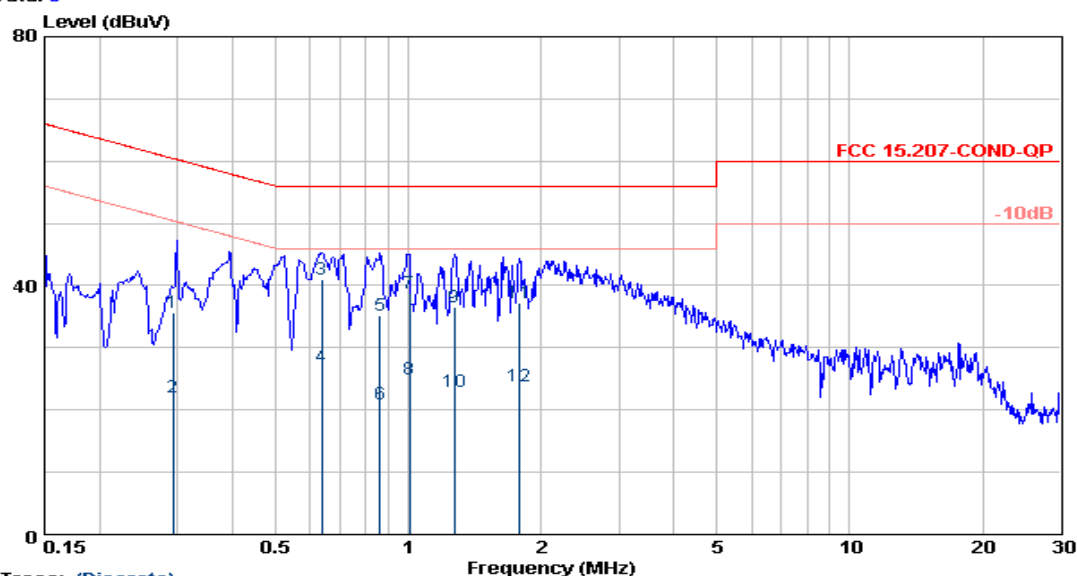
Test By : Willis

Pol : Line

Adaptor Model : DCH3-050UK

Supplier: Astec

Data: 5



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) LINE
Project No. : EI/2006/40004
Applicant : SAGEM
EUT Description : Triband 900/1800/1900 headset
EUT Model : E2006//ADAPTER MODEL:DCH3-050UK
Test Mode : GSM1900 LINK
Temp./Humid. : 25/65
Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.29	LINE	35.50	0.20	35.70	60.41	-24.71	QP
2	0.29	LINE	21.83	0.20	22.03	60.41	-38.38	AVERAGE
3	0.64	LINE	40.84	0.21	41.05	56.00	-14.95	QP
4	0.64	LINE	26.75	0.21	26.96	56.00	-29.04	AVERAGE
5	0.86	LINE	34.93	0.21	35.14	56.00	-20.86	QP
6	0.86	LINE	20.66	0.21	20.87	56.00	-35.13	AVERAGE
7	1.00	LINE	38.48	0.21	38.69	56.00	-17.31	QP
8	1.00	LINE	24.84	0.21	25.05	56.00	-30.95	AVERAGE
9	1.27	LINE	36.36	0.21	36.57	56.00	-19.43	QP
10	1.27	LINE	22.74	0.21	22.95	56.00	-33.05	AVERAGE
11	1.79	LINE	36.90	0.22	37.12	56.00	-18.88	QP
12	1.79	LINE	23.57	0.22	23.79	56.00	-32.21	AVERAGE

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900+BT link

Fundamental Frequency : N/A

Temperature : 25°C

Humidity : 65%

Test Voltage : 110Vac

Test Date : May. 04, 2006

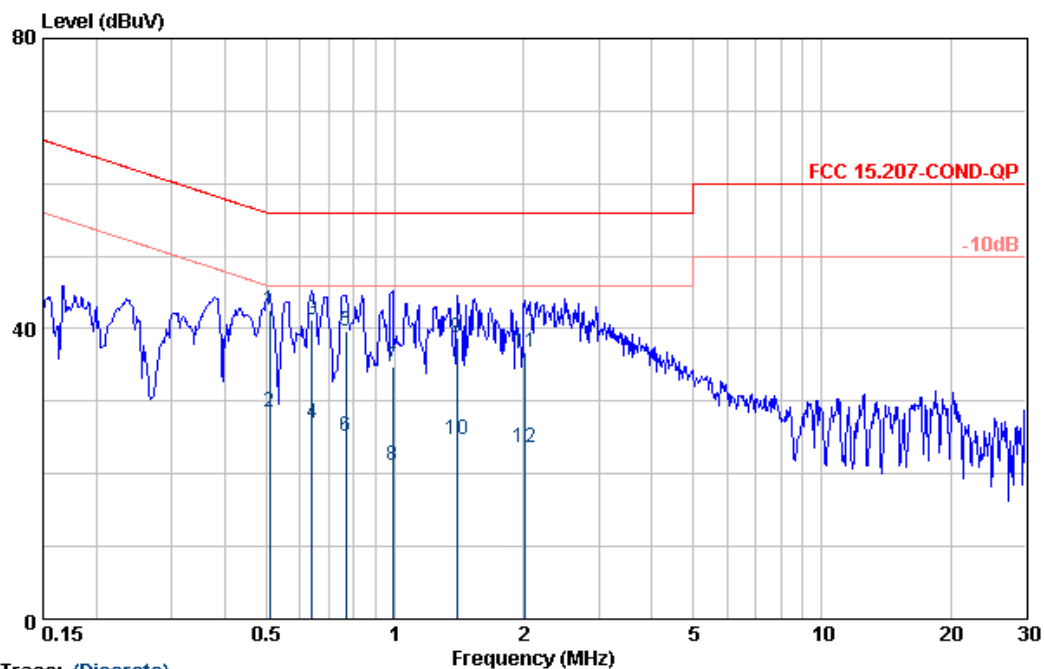
Test By : Willis

Pol : Neutral

Adaptor Model : DCH3-050UK

Supplier : Astec

Data: 6



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) NEUTRAL
Project No. : EI/2006/40004
Applicant : SAGEM
EUT Description : Triband 900/1800/1900 headset
EUT Model : E2006//ADAPTER MODEL:DCH3-050UK
Test Mode : GSM1900 LINK
Temp./Humid. : 25/65
Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.51	NEUTRAL	42.33	0.20	42.53	56.00	-13.47	QP
2	0.51	NEUTRAL	28.35	0.20	28.55	56.00	-27.45	AVERAGE
3	0.64	NEUTRAL	41.07	0.21	41.28	56.00	-14.72	QP
4	0.64	NEUTRAL	26.72	0.21	26.93	56.00	-29.07	AVERAGE
5	0.77	NEUTRAL	39.55	0.21	39.76	56.00	-16.24	QP
6	0.77	NEUTRAL	24.88	0.21	25.09	56.00	-30.91	AVERAGE
7	0.99	NEUTRAL	34.48	0.21	34.69	56.00	-21.31	QP
8	0.99	NEUTRAL	21.02	0.21	21.23	56.00	-34.77	AVERAGE
9	1.40	NEUTRAL	38.60	0.21	38.81	56.00	-17.19	QP
10	1.40	NEUTRAL	24.58	0.21	24.79	56.00	-31.21	AVERAGE
11	2.02	NEUTRAL	36.48	0.22	36.70	56.00	-19.30	QP
12	2.02	NEUTRAL	23.32	0.22	23.54	56.00	-32.46	AVERAGE

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900+BT link

Fundamental Frequency : N/A

Temperature : 25°C

Humidity : 65%

Test Voltage : 110Vac

Test Date : May. 04, 2006

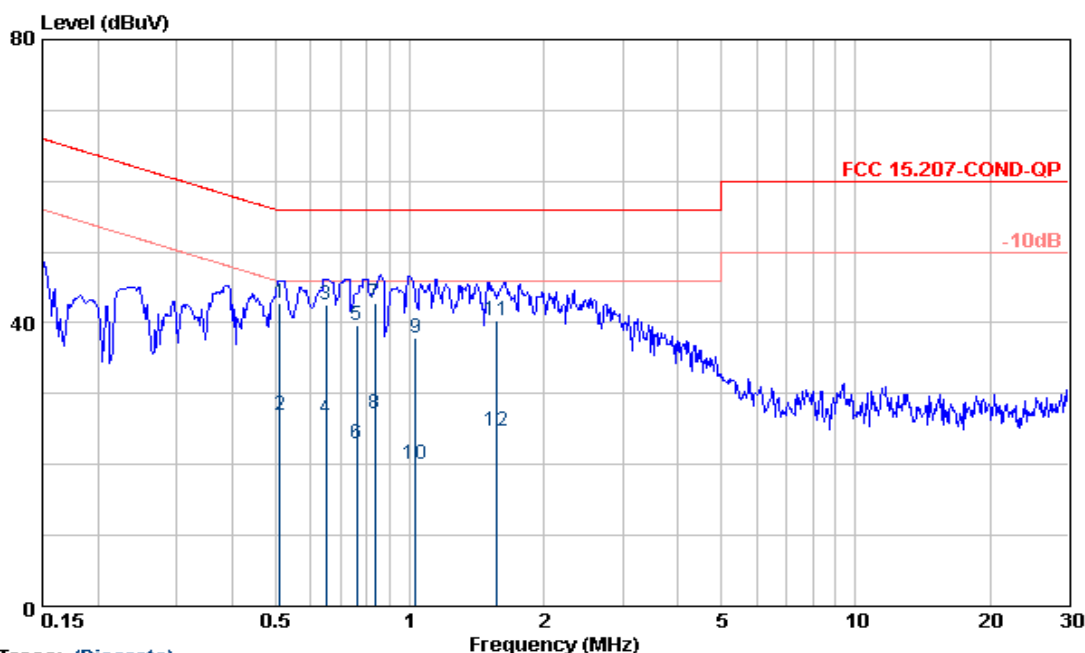
Test By : Willis

Pol : Line

Adaptor Model : DCH3-050US

Supplier: Astec

Data: 1



Trace: (Discrete)

Site : RF Site
 Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) LINE
 Project No. : EI/2006/40004
 Applicant : SAGEM
 EUT Description : Triband 900/1800/1900 headset
 EUT Model : E2006//ADAPTER MODEL:DCH3-050US
 Test Mode : GSM1900 LINK
 Temp./Humid. : 25/65
 Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.51	LINE	42.48	0.20	42.68	56.00	-13.32	QP
2	0.51	LINE	26.81	0.20	27.01	56.00	-28.99	AVERAGE
3	0.65	LINE	42.27	0.21	42.48	56.00	-13.52	QP
4	0.65	LINE	26.36	0.21	26.57	56.00	-29.43	AVERAGE
5	0.76	LINE	39.43	0.21	39.64	56.00	-16.36	QP
6	0.76	LINE	22.77	0.21	22.98	56.00	-33.02	AVERAGE
7	0.83	LINE	42.60	0.21	42.81	56.00	-13.19	QP
8	0.83	LINE	26.88	0.21	27.09	56.00	-28.91	AVERAGE
9	1.03	LINE	37.73	0.21	37.94	56.00	-18.06	QP
10	1.03	LINE	19.93	0.21	20.14	56.00	-35.86	AVERAGE
11	1.57	LINE	40.23	0.21	40.44	56.00	-15.56	QP
12	1.57	LINE	24.44	0.21	24.65	56.00	-31.35	AVERAGE

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900+BT link

Fundamental Frequency : N/A

Temperature : 25°C

Humidity : 65%

Test Voltage : 110Vac

Test Date : May. 04, 2006

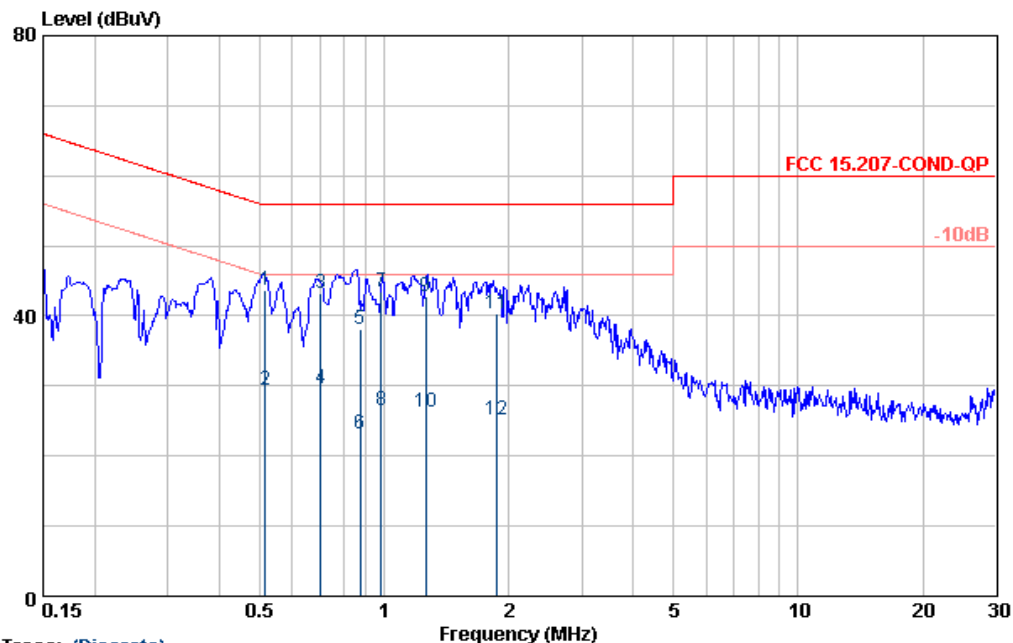
Test By : Willis

Pol : Neutral

Adaptor Model : DCH3-050US

Supplier: Astec

Data: 2



Trace: (Discrete)

Site : RF Site
 Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) NEUTRAL
 Project No. : EI/2006/40004
 Applicant : SAGEM
 EUT Description : Triband 900/1800/1900 headset
 EUT Model : E2006//ADAPTER MODEL:DCH3-050US
 Test Mode : GSM1900 LINK
 Temp./Humid. : 25/65
 Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.52	NEUTRAL	43.42	0.20	43.62	56.00	-12.38	QP
2	0.52	NEUTRAL	29.16	0.20	29.36	56.00	-26.64	AVERAGE
3	0.70	NEUTRAL	43.13	0.21	43.34	56.00	-12.66	QP
4	0.70	NEUTRAL	29.35	0.21	29.56	56.00	-26.44	AVERAGE
5	0.88	NEUTRAL	37.90	0.21	38.11	56.00	-17.89	QP
6	0.88	NEUTRAL	22.89	0.21	23.10	56.00	-32.90	AVERAGE
7	0.98	NEUTRAL	43.34	0.21	43.55	56.00	-12.45	QP
8	0.98	NEUTRAL	26.41	0.21	26.62	56.00	-29.38	AVERAGE
9	1.26	NEUTRAL	42.50	0.21	42.71	56.00	-13.29	QP
10	1.26	NEUTRAL	26.09	0.21	26.30	56.00	-29.70	AVERAGE
11	1.86	NEUTRAL	40.16	0.22	40.38	56.00	-15.62	QP
12	1.86	NEUTRAL	24.92	0.22	25.14	56.00	-30.86	AVERAGE

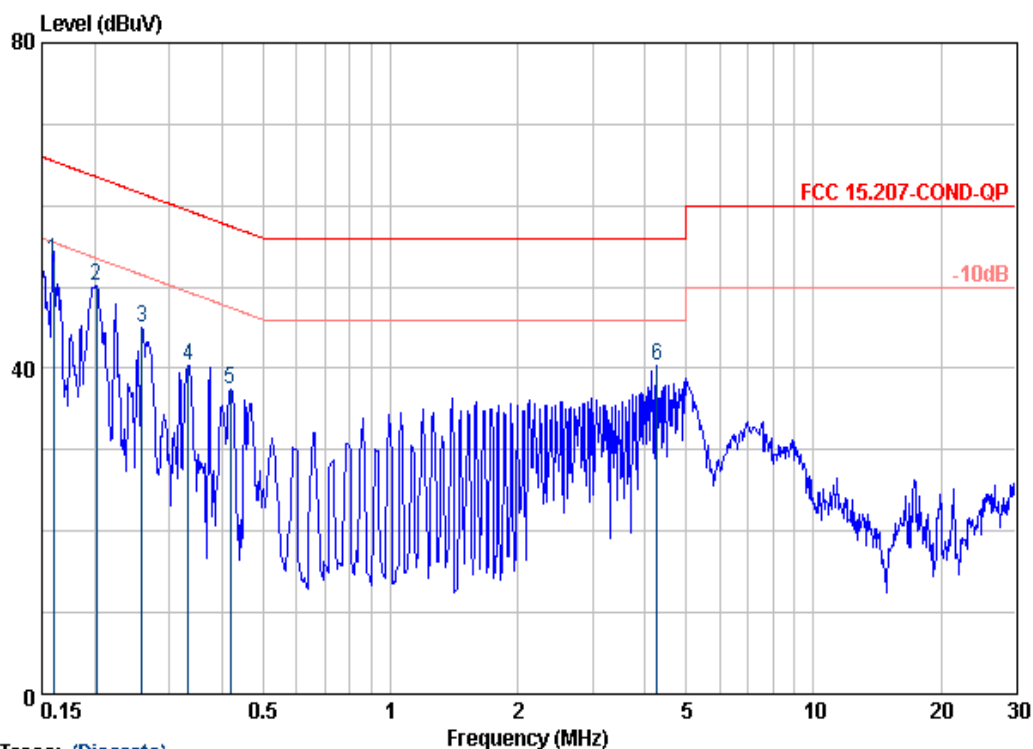
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : DATA Link
Fundamental Frequency : N/A
Temperature : 25°C
Humidity : 65%
Test Voltage : 110Vac

Test Date : May. 04, 2006
Test By : Willis
Pol : Line
Adaptor Model : 08K8210
Supplier : IBM

Data: 9



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) LINE
Project No. : EI/2006/40004
Applicant : SAGEM
EUT Description : Triband 900/1800/1900 headset
EUT Model : E2006
Test Mode : GSM1900 LINK // DATA LINK
Temp./Humid. : 25/65
Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.16	LINE	53.09	0.20	53.29	65.47	-12.18	Peak
2	0.20	LINE	49.97	0.20	50.17	63.54	-13.37	Peak
3	0.26	LINE	44.76	0.20	44.96	61.47	-16.51	Peak
4	0.33	LINE	40.12	0.20	40.32	59.40	-19.08	Peak
5	0.42	LINE	37.20	0.20	37.40	57.46	-20.06	Peak
6	4.27	LINE	40.10	0.34	40.44	56.00	-15.56	Peak

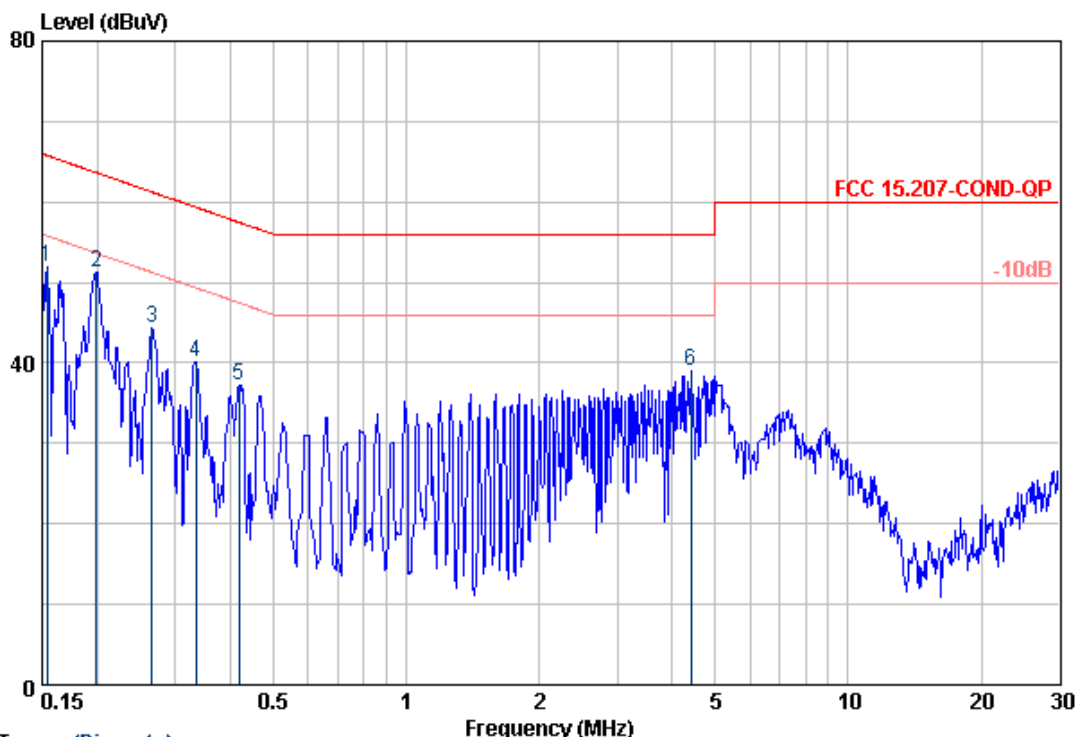
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : DATA Link
Fundamental Frequency : N/A
Temperature : 25°C
Humidity : 65%
Test Voltage : 110Vac

Test Date : May. 04, 2006
Test By : Willis
Pol : Neutral
Adaptor Model : 08K8210
Supplier : IBM

Data: 10



Trace: (Discrete)

Site : RF Site
Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) NEUTRAL
Project No. : EI/2006/40004
Applicant : SAGEM
EUT Description : Triband 900/1800/1900 headset
EUT Model : E2006
Test Mode : GSM1900 LINK // DATA LINK
Temp./Humid. : 25/65
Operator : WILLIS

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.15	NEUTRAL	51.67	0.20	51.87	65.78	-13.91	Peak
2	0.20	NEUTRAL	50.99	0.20	51.19	63.67	-12.48	Peak
3	0.27	NEUTRAL	44.07	0.20	44.27	61.25	-16.98	Peak
4	0.33	NEUTRAL	39.98	0.20	40.18	59.35	-19.17	Peak
5	0.42	NEUTRAL	37.10	0.20	37.30	57.46	-20.16	Peak
6	4.41	NEUTRAL	38.59	0.35	38.94	56.00	-17.06	Peak

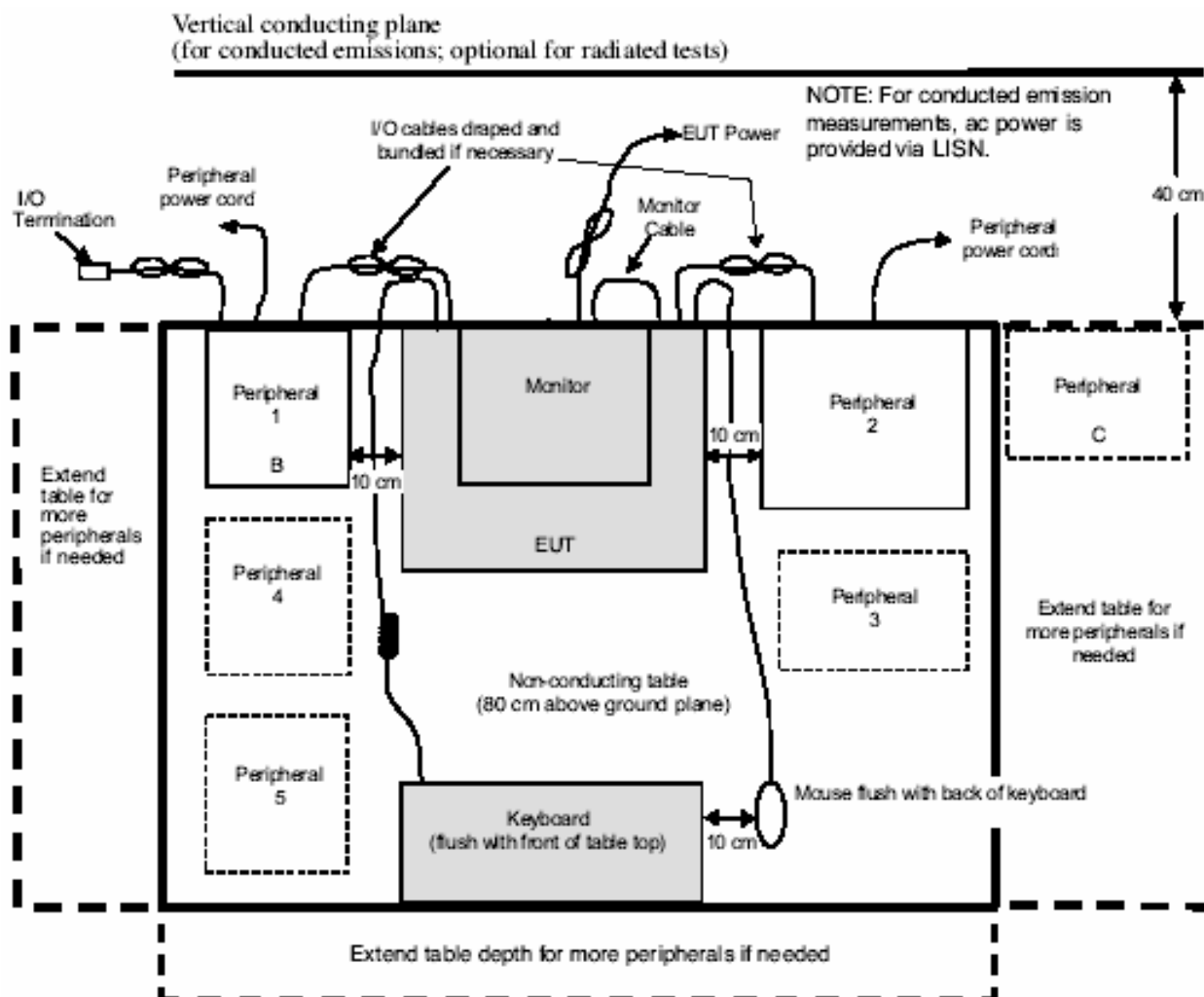
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6. Radiated Emission Test

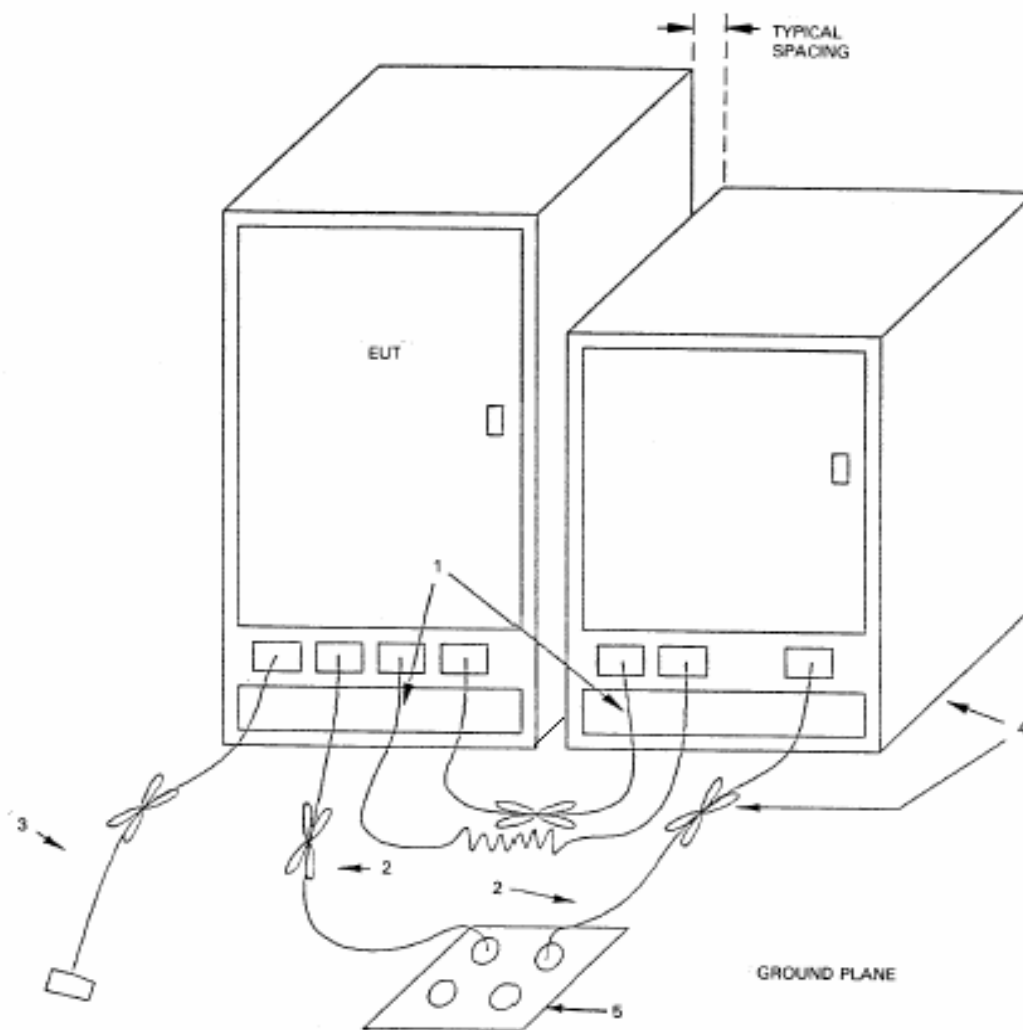
6.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)



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LEGEND:

- 1) Excess I/O cables shall be bundled in center. If bundling is not possible, the cables shall be arranged in serpentine fashion. Bundling not to exceed 40 cm in length (see 6.1.4).
- 2) Excess power cords shall be bundled in the center or shortened to appropriate length (see 7.2.1).
- 3) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cable shall be arranged in a serpentine fashion (see 6.1.4).
- 4) EUT and all cables shall be insulated, if required, from the groundplane by up to 12 mm of insulating material (see 6.1.4 and 6.2.2).
- 5) If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the groundplane with the receptacle flush with the ground plane (see 5.2.3 and 8.1).

Figure 11b—Test arrangement for radiated emissions floor-standing equipment

6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2005	05/26/2006
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2005	08/27/2006
Loop Antenna	Messtec	FLA30	03/10086	03/06/2005	03/05/2006
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2005	06/02/2006
Bilog Antenna	SCHWAZBECK	VULB9160		06/03/2005	06/02/2006
Pre-Amplifier	HP	8447D	2944A09469	07/19/2004	07/18/2005
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2005	10/08/2006
Site NSA	SGS	966 chamber	N/A	11/17/2005	11/16/2006
Site NSA	SGS	10m Open-Site	N/A	10/02/2005	10/01/2006

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

6.5 Measurement Result

Test Mode: GSM1900 +BT Operating

Test Date : May. 05, 2006

Detector Function: Quasi-Peak

Test By: Sky

Frequency Range: 30MHz-1000MHz

Temperature : 25 °C

Humidity : 65 %

EUT Model: Adapter: DCH3-505AU

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
31.94	V	Peak	44.22	-15.22	29.00	40.00	-11.00
46.49	V	Peak	41.04	-14.63	26.41	40.00	-13.59
106.63	V	Peak	37.61	-16.66	20.95	43.50	-22.55
33.88	H	Peak	46.94	-15.12	31.82	40.00	-8.18
61.04	H	Peak	45.05	-14.83	30.22	40.00	-9.78
90.14	H	Peak	41.20	-17.89	23.31	43.50	-20.19

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

Measurement Result

Test Mode: GSM1900 +BT Operating

Test Date : May. 05, 2006

Detector Function: Peak

Test By: Sky

Frequency Range: 30MHz-1000MHz

Temperature : 25 °C

Humidity : 65 %

EUT Model: Adapter: DCH3-505EU

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
31.94	V	Peak	43.45	-15.22	28.23	40.00	-11.77
46.49	V	Peak	42.07	-14.63	27.44	40.00	-12.56
106.63	V	Peak	38.59	-16.66	21.93	43.50	-21.57
33.88	H	Peak	45.93	-15.12	30.81	40.00	-9.19
56.19	H	Peak	43.81	-14.95	28.86	40.00	-11.14
90.14	H	Peak	42.50	-17.89	24.61	43.50	-18.89

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

Measurement Result

Test Mode: GSM1900 +BT Operating

Test Date : May. 05, 2006

Detector Function: Peak

Test By: Sky

Frequency Range: 30MHz-1000MHz

Temperature : 25 °C

Humidity : 65 %

EUT Model: Adapter: DCH3-505UK

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
33.88	V	Peak	46.93	-15.12	31.81	40.00	-8.19
56.19	V	Peak	42.74	-14.95	27.79	40.00	-12.21
106.63	V	Peak	38.72	-16.66	22.06	43.50	-21.44
33.88	H	Peak	44.12	-15.12	29.00	40.00	-11.00
61.04	H	Peak	42.74	-14.83	27.91	40.00	-12.09
90.14	H	Peak	40.10	-17.89	22.21	43.50	-21.29

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

Measurement Result

Test Mode: GSM1900 +BT Operating

Test Date : May. 05, 2006

Detector Function: Peak

Test By: Sky

Frequency Range: 30MHz-1000MHz

Temperature : 25 °C

Humidity : 65 %

EUT Model: Adapter: DCH3-505US

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
33.88	V	Peak	45.67	-15.12	30.55	40.00	-9.45
46.49	V	Peak	41.53	-14.63	26.90	40.00	-13.10
104.69	V	Peak	37.22	-16.82	20.40	43.50	-23.10
31.94	H	Peak	39.03	-15.22	23.81	40.00	-16.19
46.49	H	Peak	41.68	-14.63	27.05	40.00	-12.95
65.89	H	Peak	39.27	-15.35	23.92	40.00	-16.08

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

Measurement Result

Test Mode: Data Link

Test Date : May. 05, 2006

Detector Function: Peak

Test By: Sky

Frequency Range: 30MHz-1000MHz

Temperature : 25 °C

Humidity : 65 %

EUT Mode: DATA cable

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
61.04	V	Peak	45.11	-14.83	30.28	40.00	-9.72
90.14	V	Peak	49.73	-17.89	31.84	43.50	-11.66
106.63	V	Peak	44.35	-16.66	27.69	43.50	-15.81
155.13	V	Peak	41.24	-13.85	27.39	43.50	-16.11
366.59	V	Peak	36.45	-11.50	24.95	46.00	-21.05
504.33	V	Peak	34.31	-9.22	25.09	46.00	-20.91
58.13	H	Peak	53.95	-14.85	39.10	40.00	-0.90
90.14	H	Peak	56.17	-17.89	38.28	43.50	-5.22
252.13	H	Peak	43.06	-15.26	27.80	46.00	-18.20
337.49	H	Peak	38.58	-12.28	26.30	46.00	-19.70
492.69	H	Peak	38.88	-9.37	29.51	46.00	-16.49
749.74	H	Peak	36.91	-4.46	32.45	46.00	-13.55

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

Measurement Result

Test Mode : GSM1900 +BT Operating

Test Date : May. 05, 2006

Detector Function: Quasi-Peak

Test By: Sky

Frequency Range: 1000MHz-13GHz

Temperature : 25 °C

Humidity : 65 %

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
---	V	Peak					
---	H	Peak					

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

APPENDIX 1

PHOTOGRAPHS OF SET UP

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

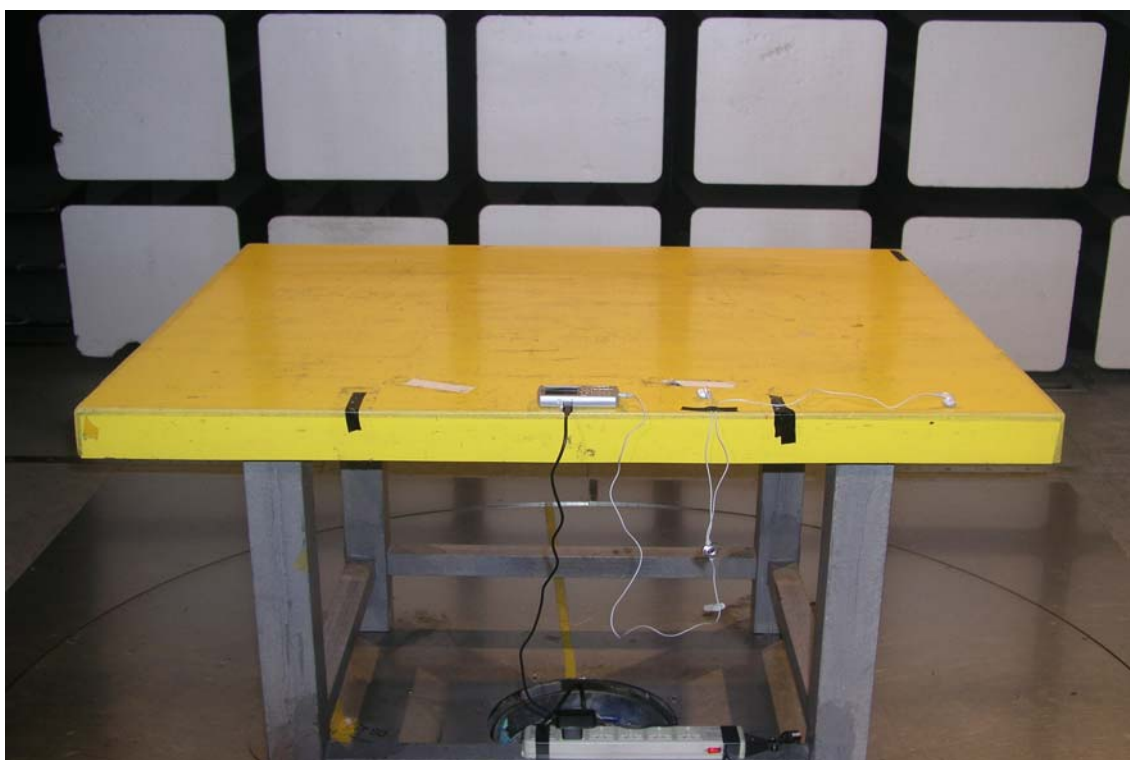
No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. / 台北縣五股工業區五工路134號

t (886-2) 2299-3939

f (886-2) 2298-2698

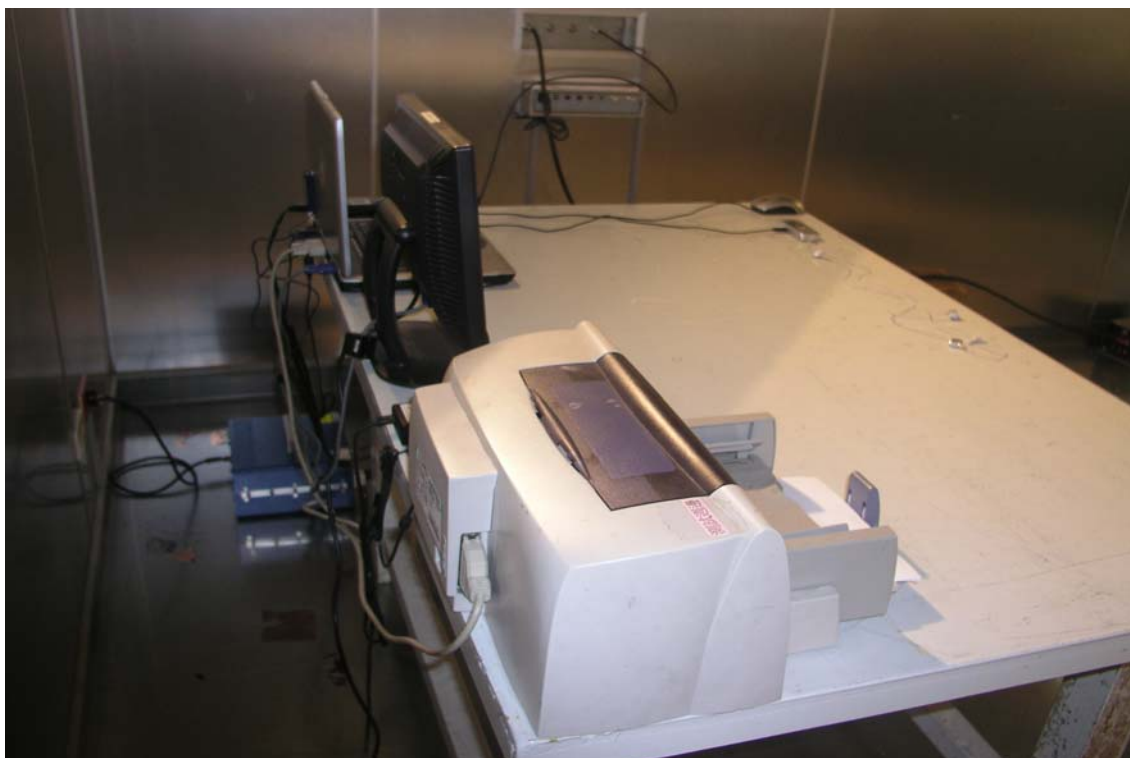
www.sgs.com.tw

Radiated Emission Test Setup Photo



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Conducted Emission Test Setup Photo



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APPENDIX 2

PHOTOGRAPHS OF EUT

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All View of EUT



Front View of EUT



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Back View of EUT



Right View of EUT



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Left View of EUT



Top View of EUT



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Bottom View of EUT



Adaptor (Powersupply 1 with 18 919 495-9)



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Adaptor (Powersupply 2 with 18 919 521-1)



Adaptor (Powersupply 3 with 18 919 497-0)



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Adaptor (Powersupply 4 with 18 919 499-1)



USB Data Cable(18 924 221-8)



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Earphone (18916164-5)



Battery (28 707 385-1)



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Open View of EUT – 1



Open View of EUT – 2



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Open View of EUT – 3

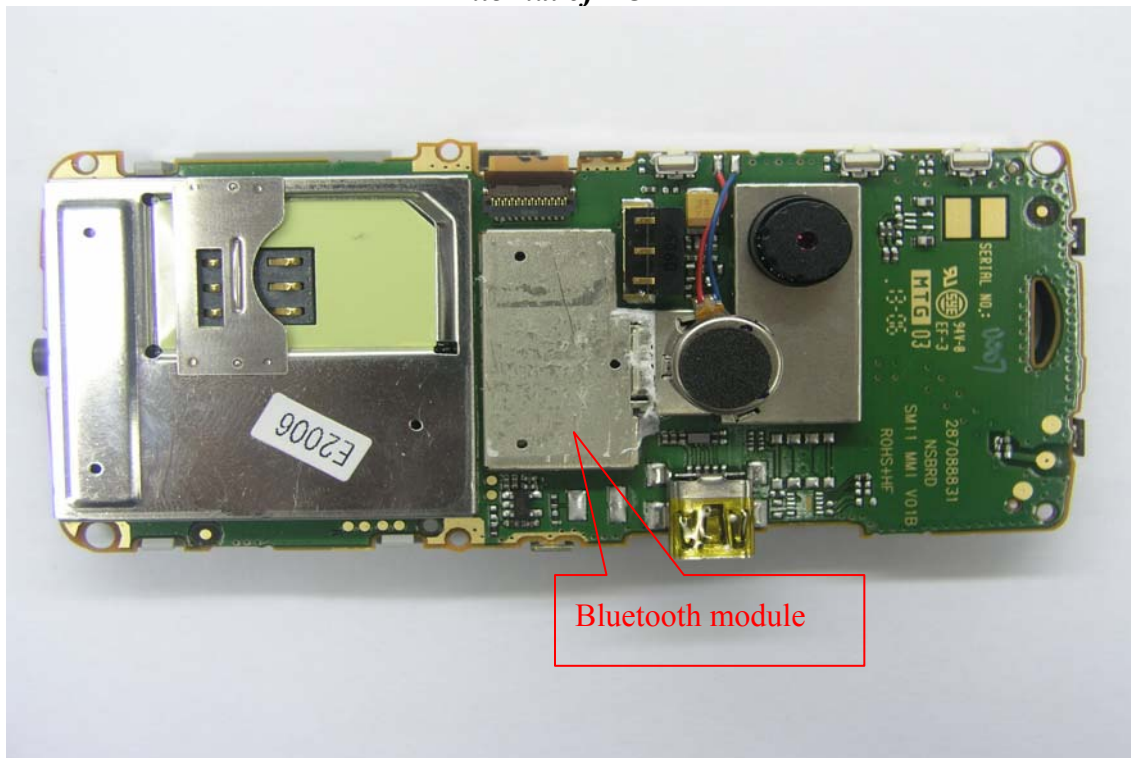


Open View of EUT – 4



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Internal of EUT-1



Internal of EUT-2

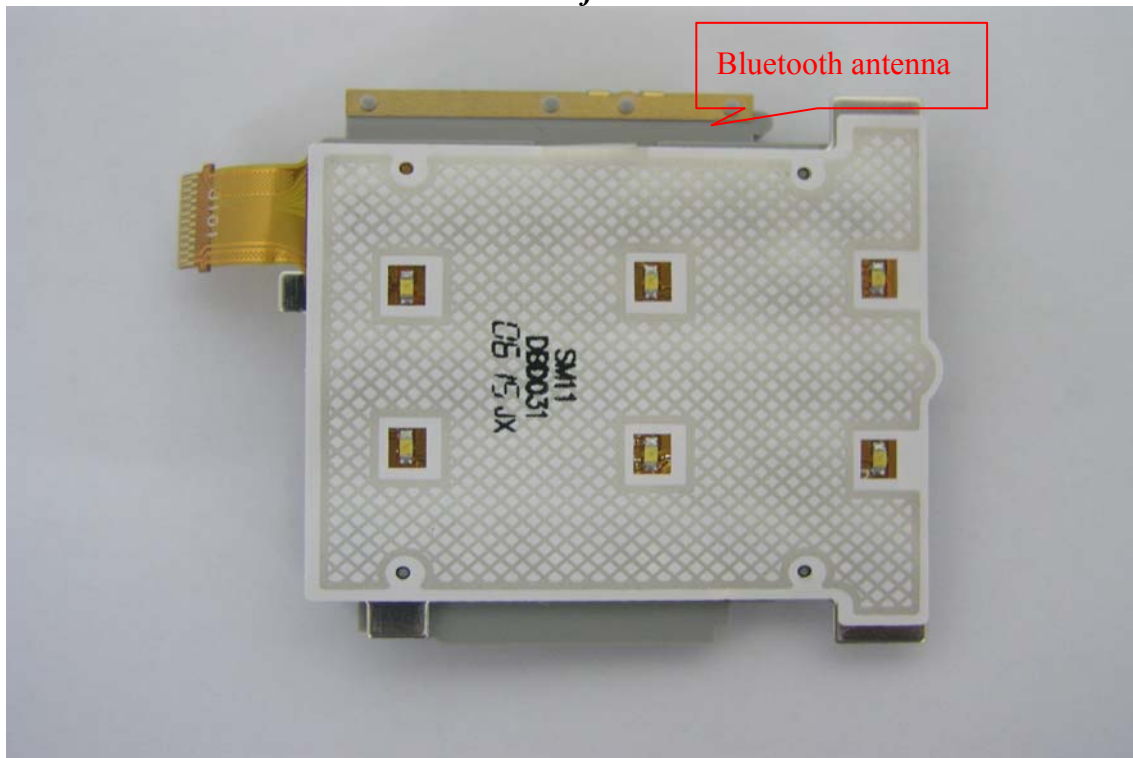


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Internal of EUT-3



Internal of EUT-4



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APPENDIX 3

LABELING REQUIREMENTS

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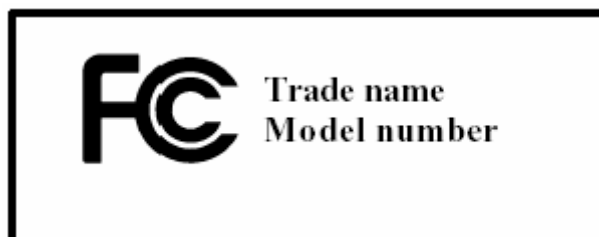
§15.19 Labeling requirements.

- (a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or verification, or verification shall be labeled as follows:
- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.
 - (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device is verified to comply with the part 15 of the FCC Rules for use with cable television service.
 - (3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.
 - (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.
 - (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.
- (b) Products subject to authorization under a Declaration of Conformity shall be labeled as follows:
- (1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in §2.1074 of this chapter and the following logo:
 - (i) If the product is authorized based on testing of the product or system; or



- (ii) If a personal computer is authorized based on assembly using separately authorized components, in accordance with §15.101(c) (2) or (c)(3), and the resulting product is not separately tested:



- (2) Label text information should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment and the label. However, the type size for the text is not required to be larger than eight points.
- (3) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (4) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as, described in §2.925(d) of this chapter. "Permanently affixed" means that the label is etched, engraved, stamped, silk screen, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.