



SGS-CSTC Standards Technical Services Co., Ltd.

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Report No.: GLEMO090300654ITF

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FCC ID:S7INBPC1022

Test Report

Application No.: GLEMO090300654IT
Applicant: Coby Communications Ltd.
FCC ID: S7INBPC1022
Equipment Under Test (EUT):
EUT Name: NetBook
Item No.: NBPC1022
Trade Mark: COBY
Serial No.: Not supplied by client
Standards: FCC PART 15 SUBPART B:2008
Date of Receipt: 16 March 2009
Date of Test: 20 March to 07 April 2009
Date of Issue: 14 April 2009

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Stephen Guo
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. 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
Conducted Emission (150 kHz to 30 MHz)	FCC PART 15 SUBPART B:2008	ANSI C63.4:2003	Class B	PASS ①
Radiated Emission (30 MHz to 1 GHz)	FCC PART 15 SUBPART B:2008	ANSI C63.4:2003	Class B	PASS

Remark:

① The EUT passed Radiated Emission test after modifications carried out by applicant.



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4 General Information

4.1 Client Information

Applicant: Coby Communications Ltd.
Address of Applicant: Unit C-E, 8/F , PO Shau Centre, 115 How Ming Street, Kowloon, Hong Kong

4.2 General Description of E.U.T.

EUT Name: NetBook
Item No.: NBPC1022
Trade Mark: COBY
Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply: AC 110-240V 50/60Hz
Model: 033A1865
Adapter: Input: 100-240V~,50/60Hz 1.7A
Output: DC 18.5V/3.5A
Power Cord: 1.8 m x 3 wires unscreened AC cables
1.8 m x 2 wires unscreened DC cables.

4.4 Description of Support Units

The EUT is tested with a monitor, 2 USB hardisks, 1 USB mouse, 1 mic and 1 headphone;

Peripheral details:

Test PC 1	Manufacturer	Model	S/N(EMC NO.)
Monitor	SAMSUNG	225MS	CR22HVMPP900646W
Monitor	IBM	6331-4CN	23-NTYF6
Hardisk	SAMSUNG	160G	N/A
Mouse	DELL	MOC5UO	G1B02ZP5
Mouse	IBM	MU29J	23-048987

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC (Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

Date of Registration: February 18, 2009. Valid until February 18, 2011.

- **VCCI (Registration No.: R-2460 and C-2584)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460 and C-2584 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IEC 61010-1:2006-10 and Rules of procedure IEC 61010-2:2006-10, and the relevant IEC 61010-2 Scheme Operational documents.

This certificate was issued Dec.04.2006 and valid until Oct.12.2009.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

The EUT passed Radiated Emission test after modifications carried out by applicant.



5 Equipments Used during Test

RE in Chamber						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0525	Compact Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	N/A	N/A
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	28-01-2009	28-01-2010
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	10036	14-07-2008	14-07-2009
N/A	EMI Test Software	Audix	E3	N/A	N/A	N/A
EMC0514	Coaxial cable	SGS	N/A	N/A	04-12-2008	04-12-2009
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	12-08-2008	12-08-2009
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	12-08-2008	12-08-2009
EMC0517	Horn Antenna	Rohde & Schwarz	HF906	100095	12-08-2008	12-08-2009
EMC0040	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	05-12-2008	05-12-2009
EMC0520	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A06252	11-03-2009	11-03-2010
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	11-03-2009	11-03-2010
EMC0075	310N Amplifier	Sonama	310N	272683	10-09-2008	10-09-2009
EMC0523	Active Loop Antenna	EMCO	6502	00042963	09-08-2008	09-08-2010
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	10-08-2008	10-08-2009

Conducted Emission						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m ³	N/A	N/A	N/A
EMC0102	LISN	Schaffner Chase	MNZ050D/1	1421	14-12-2008	14-12-2009
EMC0118	Two-line v-netwok	Rohde & Schwarz	ENV216	3560.6550.02	28-07-2008	28-07-2009
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	14-12-2008	14-12-2009
EMC0107	Coaxial Cable	SGS	2m	N/A	26-11-2008	26-11-2009
EMC0106	Voltage Probe	SGS	N/A	N/A	N/A	N/A
EMC0120	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	20550	21-02-2009	21-02-2010
EMC0121	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	20549	21-02-2009	21-02-2010
EMC0122	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	20548	21-02-2009	21-02-2010



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General used equipment						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0006	DMM	Fluke	73	70681569	23-12-2008	23-12-2009
EMC0007	DMM	Fluke	73	70671122	23-12-2008	23-12-2009

6 Emission Test Results

6.1 Conducted Emissions Mains Terminals, 150 kHz to 30 MHz

Test Requirement: FCC Part15 B
 Test Method: ANSI C63.4
 Test Date: 20 March 2009
 Frequency Range: 150 kHz to 30 MHz
 Class / Severity: Class B
 Detector: Peak for pre-scan (9 kHz Resolution Bandwidth)
 Quasi-Peak if maximised peak within 6 dB of Quasi-Peak limit

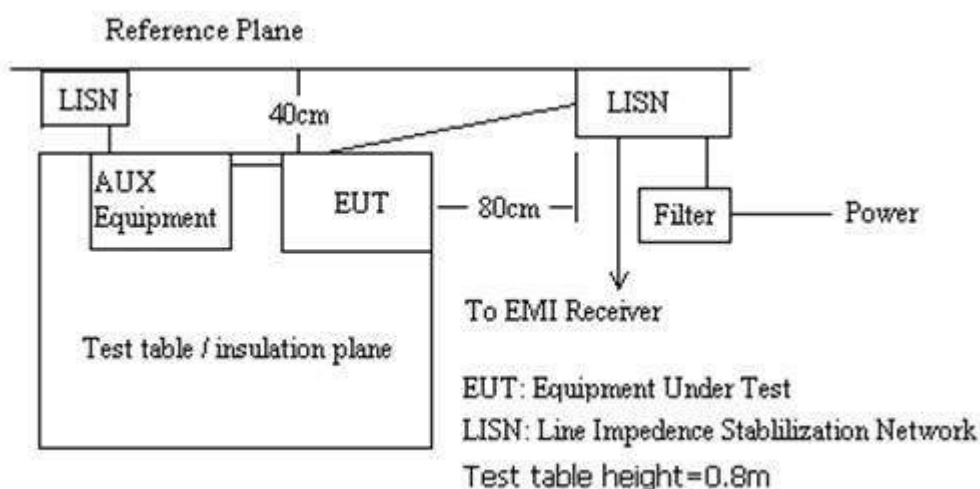
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 50% RH Atmospheric Pressure: 1002 mbar

EUT Operation: Test the EUT in On mode running the burn in test software to test all hardware.

6.1.2 Plan View of Test Setup



6.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

The following Quasi-Peak and Average measurements were performed on the EUT on 20 March 2009:



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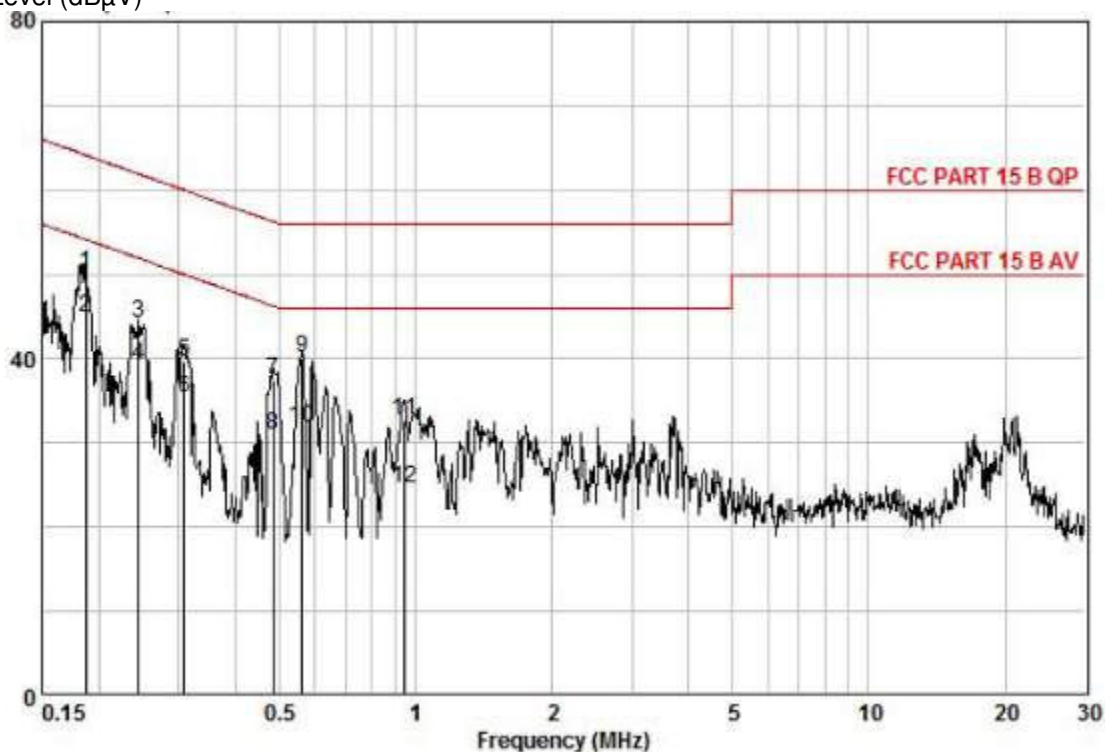
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Live Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement:

Freq	Read Level	Cable Loss	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBμV	dB	dB	dBμV	dBμV	dB	
0.187	40.40	0.12	9.58	50.10	64.15	-14.05	QP
0.187	35.11	0.12	9.58	44.81	54.15	-9.34	AVERAGE
0.244	34.60	0.15	9.58	44.33	61.95	-17.62	QP
0.244	29.55	0.15	9.58	39.28	51.95	-12.67	AVERAGE
0.308	29.92	0.18	9.58	39.68	60.02	-20.33	QP
0.308	25.65	0.18	9.58	35.41	50.02	-14.60	AVERAGE
0.486	27.78	0.22	9.59	37.59	56.23	-18.64	QP
0.486	21.18	0.22	9.59	30.99	46.23	-15.24	AVERAGE
0.561	30.34	0.24	9.59	40.17	56.00	-15.83	QP
0.561	22.02	0.24	9.59	31.85	46.00	-14.15	AVERAGE
0.948	22.88	0.29	9.59	32.76	56.00	-23.24	QP
0.948	14.69	0.29	9.59	24.57	46.00	-21.43	AVERAGE



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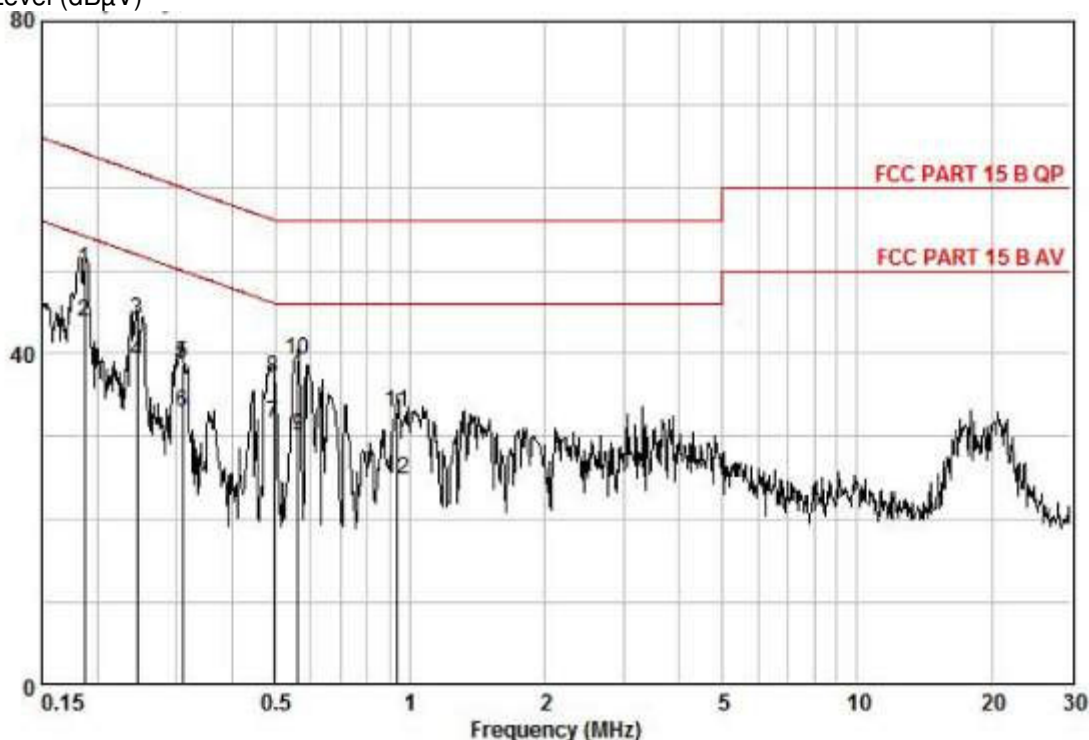
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Neutral Line

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement:

Freq	Read Level	Cable Loss	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBμV	dB	dB	dBμV	dBμV	dB	
0.187	40.42	0.12	9.59	50.13	64.15	-14.02	QP
0.187	34.15	0.12	9.59	43.86	54.15	-10.29	AVERAGE
0.246	34.28	0.15	9.59	44.02	61.91	-17.89	QP
0.246	29.35	0.15	9.59	39.09	51.91	-12.82	AVERAGE
0.310	29.00	0.18	9.59	38.77	59.97	-21.20	QP
0.310	23.15	0.18	9.59	32.92	49.97	-17.05	AVERAGE
0.494	21.89	0.23	9.59	31.71	46.10	-14.39	AVERAGE
0.494	27.24	0.23	9.59	37.06	56.10	-19.04	QP
0.561	20.30	0.24	9.59	30.13	46.00	-15.87	AVERAGE
0.561	29.42	0.24	9.59	39.25	56.00	-16.75	QP
0.933	23.14	0.29	9.58	33.01	56.00	-22.99	QP
0.933	15.01	0.29	9.58	24.88	46.00	-21.12	AVERAGE

6.2 Radiated Emissions, 30 MHz to 1 GHz

Test Requirement:	FCC Part15 B
Test Method:	ANSI C63.4
Test Date:	02 April 2009 (initial test date) 08 April 2009 (test after modification)
Frequency Range:	30 MHz to 1 GHz
Measurement Distance:	3 m
Class:	Class B
Limit:	40.0 dB μ V/m between 30 MHz & 88 MHz 43.5 dB μ V/m between 88 MHz & 216 MHz 46.0 dB μ V/m between 216 MHz & 960 MHz 54.0 dB μ V/m above 960 MHz
Detector:	Peak for pre-scan (120 kHz resolution bandwidth) Quasi-Peak if maximised peak within 6 dB of limit

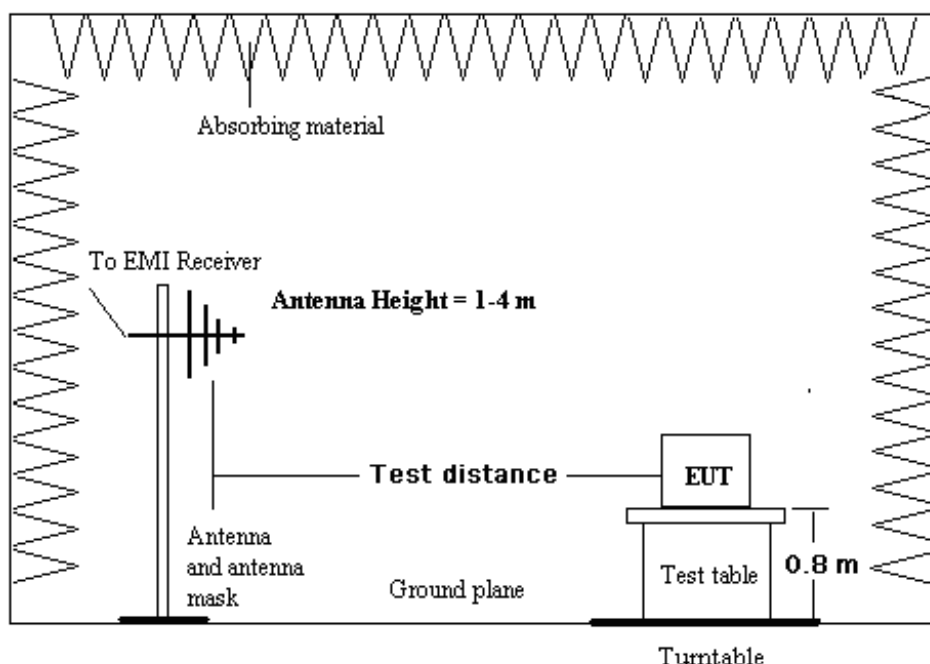
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C Humidity: 55% RH Atmospheric Pressure: 1009 mbar

EUT Operation: Test the EUT in On mode running the burn in test software to test all hardware.

6.2.2 Test Setup





6.2.3 Measurement Data

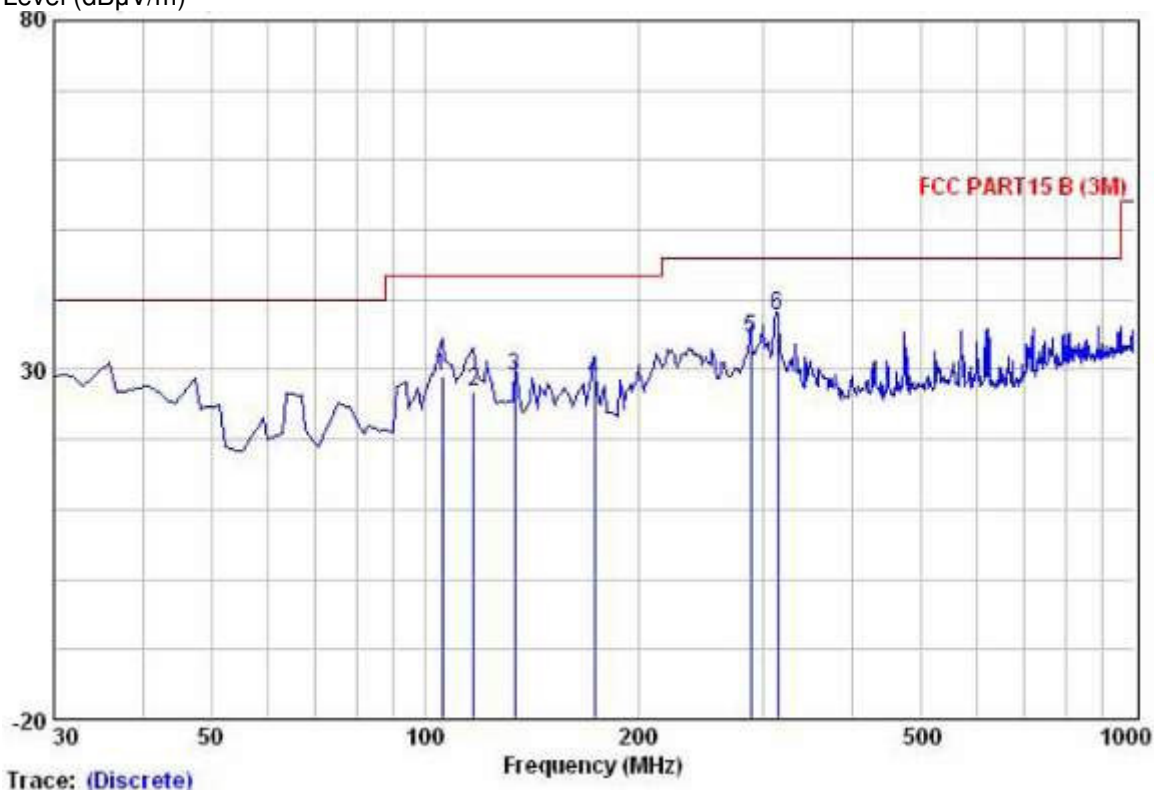
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities.

The following quasi-peak measurements were performed on the EUT on 08 April 2009

Vertical:

Peak scan

Level (dB μ V/m)



Quasi-peak measurement

Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
105.890	48.07	11.17	0.90	31.20	28.94	43.50	-14.56 QP
117.050	45.62	11.58	0.90	31.20	26.90	43.50	-16.60 QP
133.790	47.77	11.41	1.00	31.20	28.98	43.50	-14.52 QP
173.560	50.18	8.44	1.18	31.18	28.62	43.50	-14.88 QP
288.020	51.59	12.53	1.50	31.10	34.52	46.00	-11.48 QP
314.550	54.02	13.20	1.60	31.16	37.66	46.00	-8.34 QP



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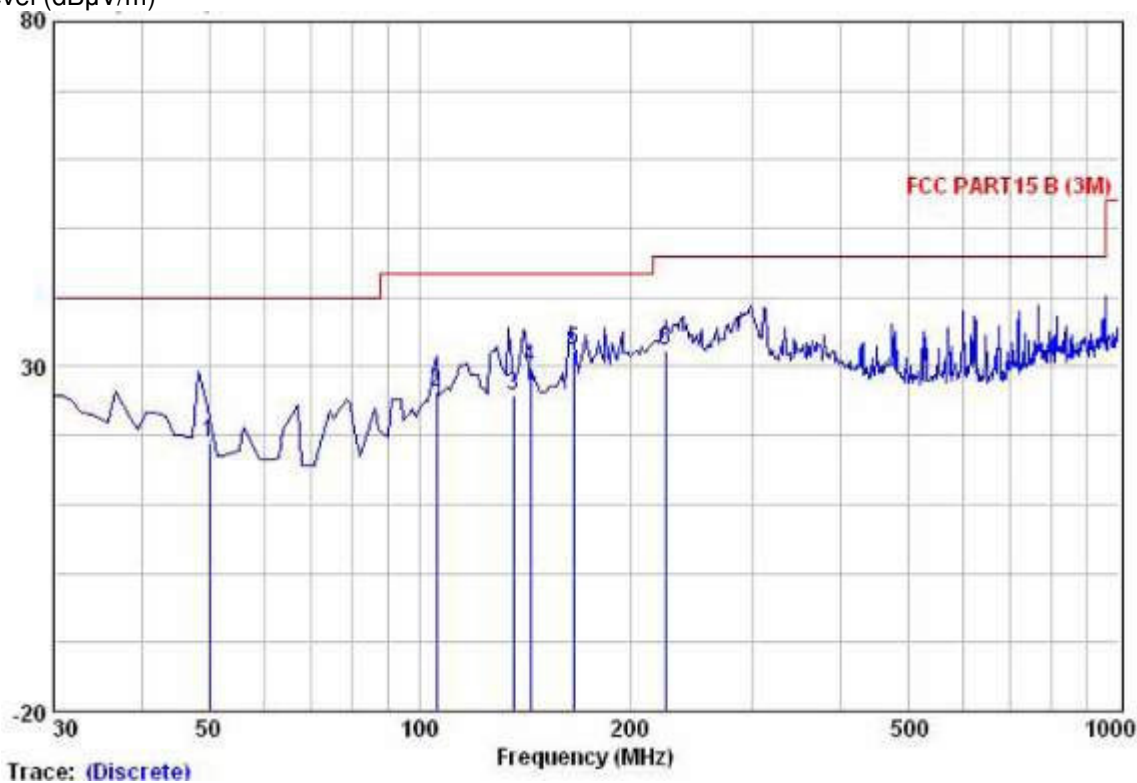
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Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBμV	dB/m	dB	dB	dBμV/m	dBμV/m	dB	
50.030	41.39	8.00	0.70	31.20	18.89	40.00	-21.11	QP
105.660	45.55	11.17	0.90	31.20	26.42	43.50	-17.08	QP
136.390	44.84	11.17	1.00	31.20	25.81	43.50	-17.69	QP
144.010	49.34	10.64	1.00	31.20	29.78	43.50	-13.72	QP
166.010	53.40	8.97	1.10	31.10	32.37	43.50	-11.13	QP
225.090	53.02	9.30	1.30	31.20	32.42	46.00	-13.58	QP

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

--- End of the Report---