



**FCC LISTED,
REGISTRATION
NUMBER: 905266**

**IC LISTED
REGISTRATION
NUMBER IC 4621**

**CENTRO DE
TECNOLOGÍA DE LAS
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TEST REPORT

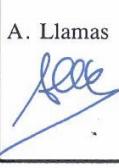
Report No.: 27271RET.101

**TEST NAME: FCC PART 15.249 RADIATED TESTING FOR 2.4 GHz band RADIO
DEVICE**

Product	: USB transceiver dongle
Trade Mark	: Logitech
Model/type Ref.	: C-UBD58
Manufacturer	: Logitech Technology Co., LTD
Requested by	: Logitech Inc.
Other identification of the product	: FCC ID: DZLCUBD58 IC: 1807B- CUBD58 Prototype
Standard(s)	: USA FCC Part 15.249, 15.205, 15.209, 15.109, 15.207 CANADA RSS-210

This test report includes 3 annexes and therefore the total number of pages is 43.

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de las Comunicaciones, S.A. (AT4 wireless).**

Date: 2008-04-04	Test operator A. Llamas 	Approved by: Date: 2008.04.04 I. C. Soler Consultant 	Page: 1 of 8 AGY-700-001833.001
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INDEX

1. COMPETENCE AND GUARANTEES	3
2. GENERAL CONDITIONS	3
3. CHARACTERISTICS OF THE TEST.....	3
3.1 TEST REQUESTED	3
3.2 REQUIREMENTS AND METHOD.....	4
4. IDENTIFICATION DATA SUPPLIED BY THE APPLICANT.....	5
4.1 APPLICANT	5
4.2 REPRESENTATIVE.....	5
4.3 TEST SAMPLES SUPPLIER	5
4.4 IDENTIFICATION OF ITEM/ITEMS TESTED.....	5
5. USAGE OF SAMPLES, PERIOD OF TESTING AND ENVIRONMENTAL CONDITIONS.....	6
5.1 USAGE OF SAMPLES.....	6
5.2 PERIOD OF TESTING	7
5.3 ENVIROMENTAL CONDITIONS	7
6. TEST RESULTS	8
7. REMARKS AND COMMENTS.....	8
8. SUMMARY.....	8

ANNEXES

ANNEX A. TEST RESULTS

ANNEX B. MEASURING RESULTS FOR ELECTROMAGNETIC EMISSION

ANNEX C. PHOTOGRAPHS

Report No.:		Page: 2 of 8
27271RET.101		
Date: 2008-04-04		AGY-700-001833.001

1. COMPETENCE AND GUARANTEES

Centro de Tecnología de las Comunicaciones (AT4 wireless), S.A. is a laboratory with a measurement facility in compliance with the requirements of Section 2.948 of the FCC rules and has been added to the list of facilities whose measurements data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Registration Number: 905266.

Centro de Tecnología de las Comunicaciones (AT4 wireless), S.A. is a laboratory with a measurement site in compliance with the requirements of RSS 212, Issue 1 (Provisional) and has been added to the list of filed sites of the Canadian Certification and Engineering Bureau. Reference File Number: IC 4621.

In order to assure the traceability to other national and international laboratories, AT4 wireless has a calibration and maintenance programme for its measuring equipment.

AT4 wireless guarantees the reliability of the data presented in this report, which is the result of measurements and tests performed to the item under test on the date and under the conditions stated on the report and is based on the knowledge and technical facilities available at AT4 wireless at the time of execution of the test.

AT4 wireless is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the item under test and the results of the test.

2. GENERAL CONDITIONS

1. This report only refers to the item that has undergone the test.
2. This report does not constitute or imply by its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without written approval of AT4 wireless.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of AT4 wireless and the Accreditation Bodies.

3. CHARACTERISTICS OF THE TEST

3.1 TEST REQUESTED

1. Measurements for short range radio equipment operating in the 2400 MHz -2483.5 MHz band, according to FCC Part 15.249.
2. Continuous conducted emission, power leads:

Standard: FCC Rules and Regulations 47 CFR Part 15

Limit: Class B

Method: FCC Rules and Regulations 47 CFR Part 15, Subpart C

Report No.: 27271RET.101		Page: 3 of 8
Date: 2008-04-04		AGY-700-001833.001

3.2 REQUIREMENTS AND METHOD

1. FCC parts 15.33, 15.35, 15.249, 15.207, 15.205, 15.209, 15.109.

The testing was performed according to the procedure in ANSI C63.4: 2003. Radiated testing was performed in AT4 wireless's semi-anechoic chamber. This site has been fully described in a report submitted to the FCC and was accepted in a letter dated July 25, 2002.

2. FCC Rules and Regulations 47 CFR Part 15, Subpart C: Limits and methods of measurements for radio frequency devices. Intentional radiators.

The instrumentation used to perform the testing is listed below:

1. Semianechoic Absorber Lined Chamber IR 11. BS.
2. Control Chamber IR 12.BC.
3. Antenna mast EM 1072 NMT.
4. Rotating table EM 1084-4. ON.
5. Multi device controller ETS 2090.
6. Bilog antenna CHASE CBL6111.
7. Antenna tripod EMCO 11968C.
8. Double-ridge Guide Horn antenna 1-18 GHz HP 11966E.
9. Double-ridge Guide Horn antenna 18-40 GHz Agilent 119665J.
10. RF pre-amplifier Miteq JS4-12002600-30-5A.
11. Semianechoic Absorber Lined Chamber IR 11. BS.
12. RF pre-amplifier Miteq AFS5-04001300-15-10P-6.
13. Spectrum analyzer R&S ESIB 26.
14. Spectrum analyzer Agilent E4440A.
15. RF pre-amplifier Schaffner CPA 9231.
16. DC power supply R&S NGPE 40/40.
17. Transient limiter. HP 11947A.
18. Line Impedance Stabilization Network (L.I.S.N.) R&S. ESH2-Z5.
19. Spectrum analyzer R&S ESU 40.

Report No.:		Page: 4 of 8
27271RET.101		
Date: 2008-04-04		AGY-700-001833.001

4. IDENTIFICATION DATA SUPPLIED BY THE APPLICANT

Identification data in this section has been supplied by the client.

4.1 APPLICANT

Name / Company: Logitech Inc.

V.A.T.: Not provided

Address: 6505 Kaiser Drive **P.C.:** CA 94555 **City:** Fremont

Country: USA

Telephone: +1-510-795 85 00 **Fax:** +1-510-792 89 01

4.2 REPRESENTATIVE

Name: Bharat Shah

4.3 TEST SAMPLES SUPPLIER

Name or Company: Logitech Europe, S.A.

V.A.T.: 203037

Address: Z.I. Moulin du Choc D **City:** Romanel Sur Morges

Postal code: 1122 **Country:** Switzerland

Telephone: +41 21 863 50 67 **Fax:** +41 21 863 53 11

Samples undergoing test have been selected by: **the client**

4.4 IDENTIFICATION OF ITEM/ITEMS TESTED

Product: USB transceiver dongle

Trade mark: Logitech **Model:** C-UBD58

Manufacturer: Logitech Technology Co., LTD

Country of manufacture: China

Manufacture site: No. 3, Songshan Road, Suzhou New District

Description: USB transceiver for Logitech mice

Report No.: 27271RET.101		Page: 5 of 8
Date: 2008-04-04		AGY-700-001833.001

5. USAGE OF SAMPLES, PERIOD OF TESTING AND ENVIRONMENTAL CONDITIONS

5.1 USAGE OF SAMPLES

Sample M/01 is formed by the following elements:

<u>Control No.</u>	<u>Description</u>	<u>Model</u>	<u>Serial No.</u>	<u>Date of reception</u>
27271/05	USB dongle with integral antenna	C-UBD58	Prototype	09/01/08
27271/04	Power supply cable	---	---	09/01/08

Sample M/02 is formed by the following elements:

<u>Control No.</u>	<u>Description</u>	<u>Model</u>	<u>Serial No.</u>	<u>Date of reception</u>
27271/06	USB dongle with antenna connector	C-UBD58	Prototype	09/01/08
27271/04	Power supply cable	---	---	09/01/08

Sample S/01 is composed of the following elements:

<u>Control No.</u>	<u>Description</u>	<u>Model</u>	<u>Serial No.</u>	<u>Date of reception</u>
27271/05	USB dongle with integral antenna	C-UBD58	Prototype	09/01/08

During the tests were used next ancillary equipments:

<u>Control No.</u>	<u>Description</u>	<u>Model</u>	<u>Serial No.</u>	<u>Date of reception</u>
27271/-	Auxiliary PC, property of AT4 wireless	Toshiba	A100-121	09/01/08

1. Sample M/01 has undergone following test(s).
Radiated tests indicated in annex A.
2. Sample M/02 has undergone following test(s).
All tests indicated in annex A, except radiated tests.
3. Sample S/01 has undergone to the following test(s):
Continuous conducted emission, power leads, in Annex B.

Report No.: 27271RET.101		Page: 6 of 8
Date: 2008-04-04		AGY-700-001833.001

5.2 PERIOD OF TESTING

The performed test started on 2008-01-16 and finished on 2008-01-18.

The tests as detailed in this report have been performed at AT4 wireless.

5.3 ENVIRONMENTAL CONDITIONS

In the control chamber the following limits were not exceeded during the test:

Temperature	Min. = 22 °C Max. = 23 °C
Relative humidity	Min. = 51 % Max. = 51 %
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	< 0,5 Ω

In the semianechoic chamber (21 meters x 11 meters x 8 meters) the following limits were not exceeded during the test.

Temperature	Min. = 23 °C Max. = 24 °C
Relative humidity	Min. = 53 % Max. = 53 %
Air pressure	Min. = 1019 mbar Max. = 1019 mbar
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	< 0,5 Ω
Normal site attenuation (NSA)	< ±4 dB at 10 m distance between item under test and receiver antenna, (30 MHz to 1000 MHz)
Field homogeneity	More than 75% of illuminated surface is between 0 and 6 dB (26 MHz to 1000 MHz).

Report No.: 27271RET.101		Page: 7 of 8
Date: 2008-04-04		AGY-700-001833.001

In the chamber for conducted measurements the following limits were not exceeded during the test:

Temperature	Min. = 24 °C Max. = 24 °C
Relative humidity	Min. = 51 % Max. = 51 %
Air pressure	Min. = 1020 mbar Max. = 1020 mbar
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	< 0,5 Ω

6. TEST RESULTS

Abbreviations used in the VERDICT column of the following tables are:

- P** Pass
- F** Fail
- NA** not applicable
- NM** not measured

FCC PART 15 PARAGRAPH	VERDICT			
	NA	P	F	NM
15.249 Subclause (a). Field strength of emissions		P		
15.249 Subclause (d). Emissions radiated outside of the specific frequency bands		P		
15.109. Radiated emission limits for receiver		P		
15.207. Conducted limits		P		

7. REMARKS AND COMMENTS

None.

8. SUMMARY

Based on the results of the performed test, stated in annex A the item under test is **IN COMPLIANCE** with the specifications listed in section 3.1 "TEST REQUESTED".

NOTE: The results presented in this Test Report apply only to the particular item under test declared in section 4.4 "IDENTIFICATION OF ITEM/ITEMS TESTED" of this document, as presented for test on the date(s) declared in section 5, "USAGE OF SAMPLES, PERIOD OF TESTING AND ENVIRONMENTAL CONDITIONS".

Report No.: 27271RET.101		Page: 8 of 8
Date: 2008-04-04		AGY-700-001833.001

ANNEX A

TEST RESULTS

Report No: 27271RET.101

Report No: 27271RET.101		Page: 1 of 23
Date: 2008-04-04 FET45_00.DOC		Annex A AGY-700-001833.001

INDEX

	Page
TEST CONDITIONS	3
Section 15.215 Subclause (c) (1). 20 dB Bandwidth.....	4
Section 15.249 Subclause (a). Field strength of Fundamental	7
Section 15.249 Subclause (a) and (d). Radiated emissions (Transmitter).....	10
Section 15.109. Receiver spurious radiation	18

TEST CONDITIONS

Power supply (V):

$V_{nominal} = 5.0 \text{ Vdc}$

Type of power supply = DC voltage supplied by USB port

Type of antenna = Integral antenna

Maximum Declared Gain for antenna = -0.5 dBi

Operating Temperature Range (°C):

$T_n = +15 \text{ to } +35$

TEST FREQUENCIES:

Lowest channel: 2405 MHz

Close to middle channel: 2447 MHz

Highest channel: 2474 MHz

The test set-up was made in accordance to the general provisions of ANSI C63.4: 2003.

CONDUCTED MEASUREMENTS

The equipment under test was set up in a shielded room and it is connected to the spectrum analyser.

RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-25 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

For radiated emissions in the range 1 GHz-25 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive (wooden) platform one meter above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

Report No: 27271RET.101		Page: 3 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

Section 15.215 Subclause (c) (1). 20 dB Bandwidth**RESULTS**

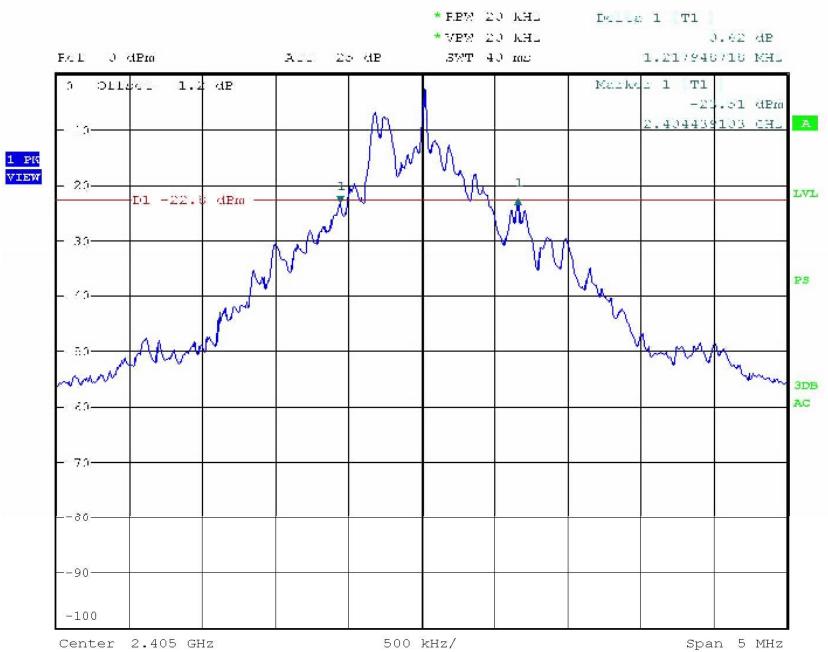
20 dB Bandwidth (see next 3 plots).

	Lowest frequency 2405 MHz	Middle frequency 2447 MHz	Highest frequency 2474 MHz
20 dB Spectrum bandwidth (kHz)	1217.95	1209.93	1225.96
Measurement uncertainty (kHz)	± 11		

Report No: 27271RET.101		Page: 4 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

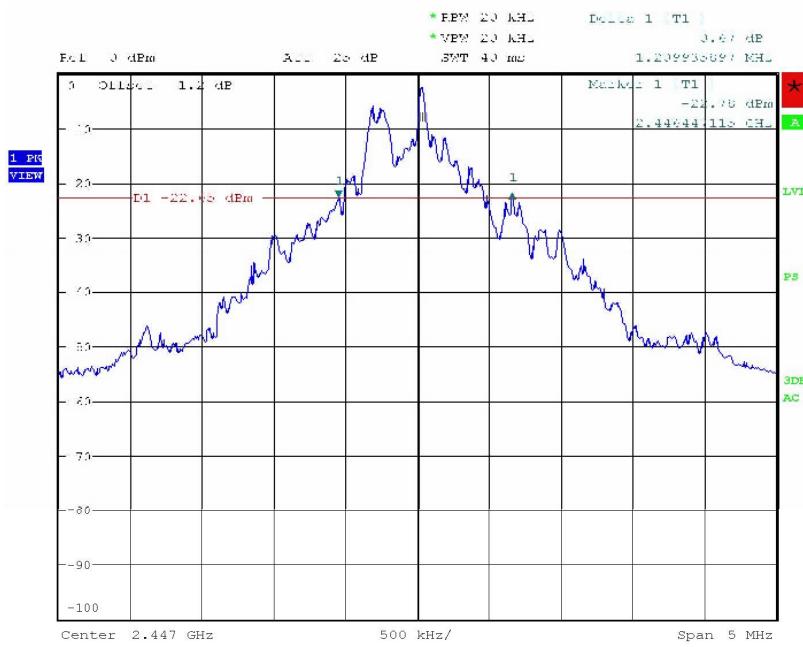
20 dB BANDWIDTH.

Lowest Channel: 2405 MHz.



Date: 3.APR.2008 16:26:42

Middle Channel: 2447 MHz.

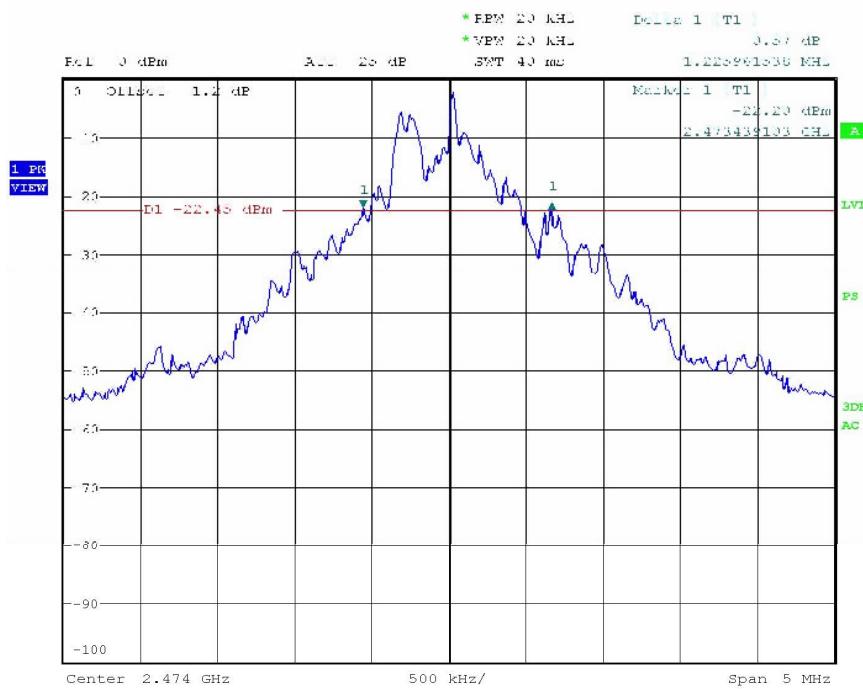


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Report No: 27271RET.101		Page: 5 of 23
Date: 2008-04-04 FET45_00.DOC		Annex A AGY-700-001833.001

20 dB BANDWIDTH.

Highest Channel: 2474 MHz.



Date: 3.APR.2008 16:24:12

Report No: 27271RET.101		Page: 6 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

Section 15.249 Subclause (a). Field strength of Fundamental

SPECIFICATION

The field strength of emissions from intentional radiators shall comply with the following

Fundamental frequency (MHz)	Field strength of fundamental (mV/m)	Field strength (dB μ V/m)	Measurement distance (m)
902 - 928	50	93.98	3
2400 – 2483.5	50	93.98	3
5725 - 5875	50	93.98	3
24000-24250	250	107.96	3

for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

RESULTS

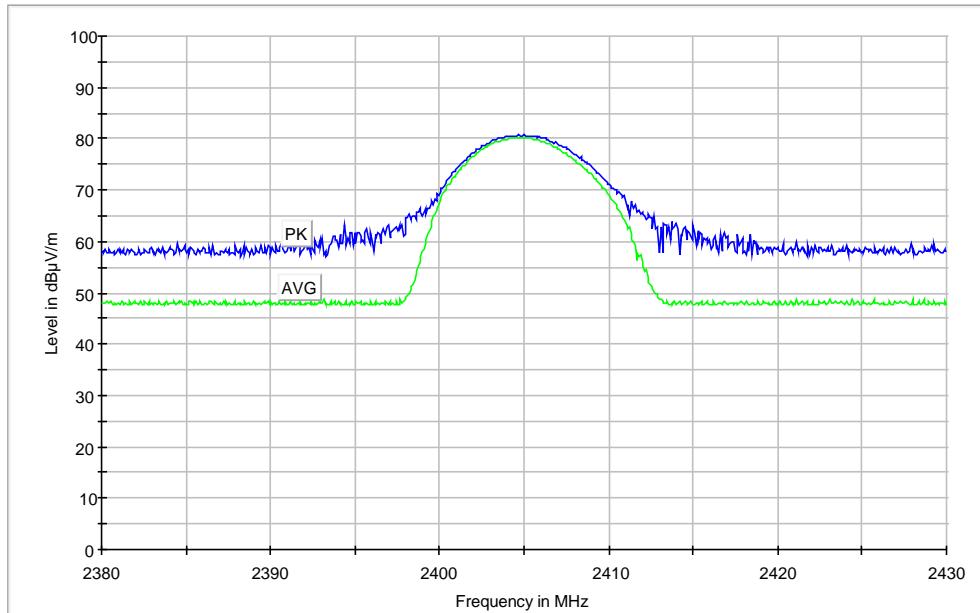
	Lowest frequency 2405 MHz	Middle frequency 2447 MHz	Highest frequency 2474 MHz
Field strength (dB μ V/m) average	80.2	83.1	84.5
Field strength (dB μ V/m) peak	80.8	83.7	85.2
Measurement uncertainty (dB)	± 4.0		

Verdict: PASS

Report No: 27271RET.101		Page: 7 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

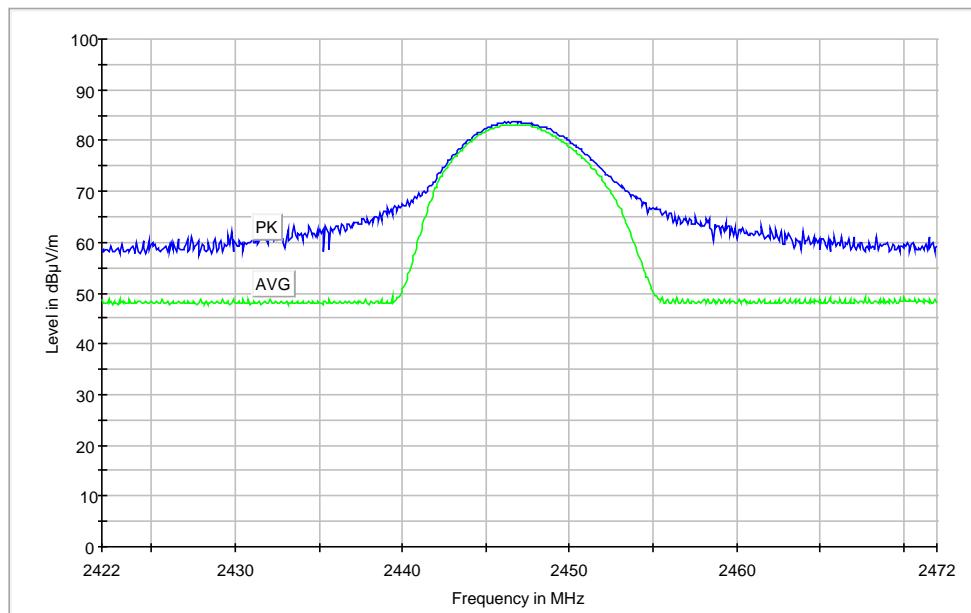
FIELD STRENGTH

Lowest Channel: 2405 MHz.



RBW = VBW = 5 MHz

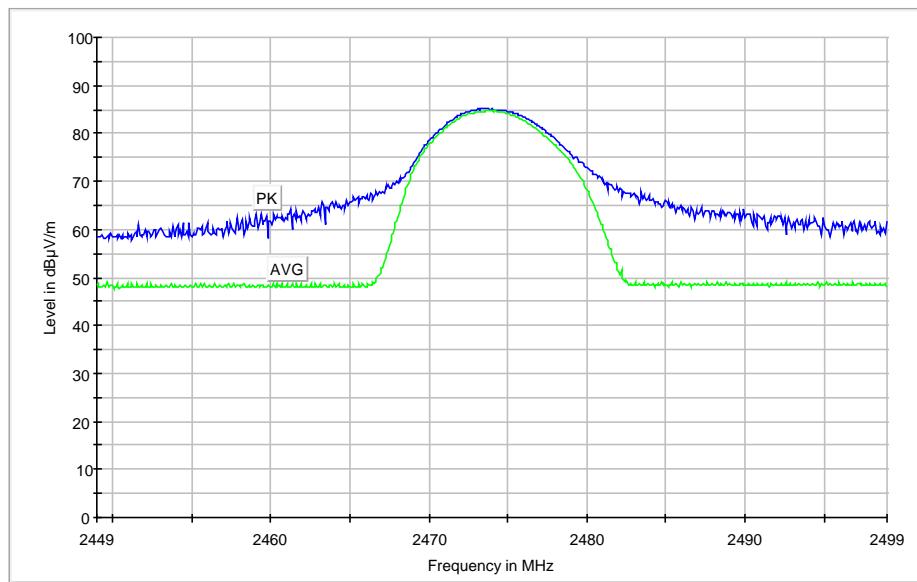
Middle Channel: 2447 MHz.



RBW = VBW = 5 MHz

Report No: 27271RET.101		Page: 8 of 23
Date: 2008-04-04 FET45_00.DOC		Annex A AGY-700-001833.001

Highest Channel: 2474 MHz.



RBW = VBW = 5 MHz

Section 15.249 Subclause (a) and (d). Radiated emissions (Transmitter)

SPECIFICATION

The field strength of harmonics from intentional radiators shall comply with the following

Fundamental frequency (MHz)	Field strength of fundamental (μ V/m)	Field strength of harmonics (dB μ V/m)	Measurement distance (m)
902 - 928	500	53.98	3
2400 – 2483.5	500	53.98	3
5725 - 5875	500	53.98	3
24000-24250	2500	67.96	3

Emissions radiated outside of the specific frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of fundamental or to the general radiated emission limits specified in section 15.209:

Frequency Range (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

Whichever is the lesser attenuation

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-25 GHz.

Report No: 27271RET.101		Page: 10 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

The field strength is calculated by adding correction factor to the measured level from the spectrum analyser. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

Frequency range 30 MHz-1000 MHz.

No spurious signals were detected in all the range for the three operating channels.

Frequency range 1 GHz-25 GHz

1. CHANNEL: LOWEST (2405 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
4810.11218	V	Peak	49.48	\pm 4.0
4810.11218	V	Average	41.04	\pm 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

2. CHANNEL: MIDDLE (2447 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
4894.32692	V	Peak	48.91	\pm 4.0
4894.32692	V	Average	45.81	\pm 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

3. CHANNEL: HIGHEST (2474 MHz).

Spurious levels (radiated).

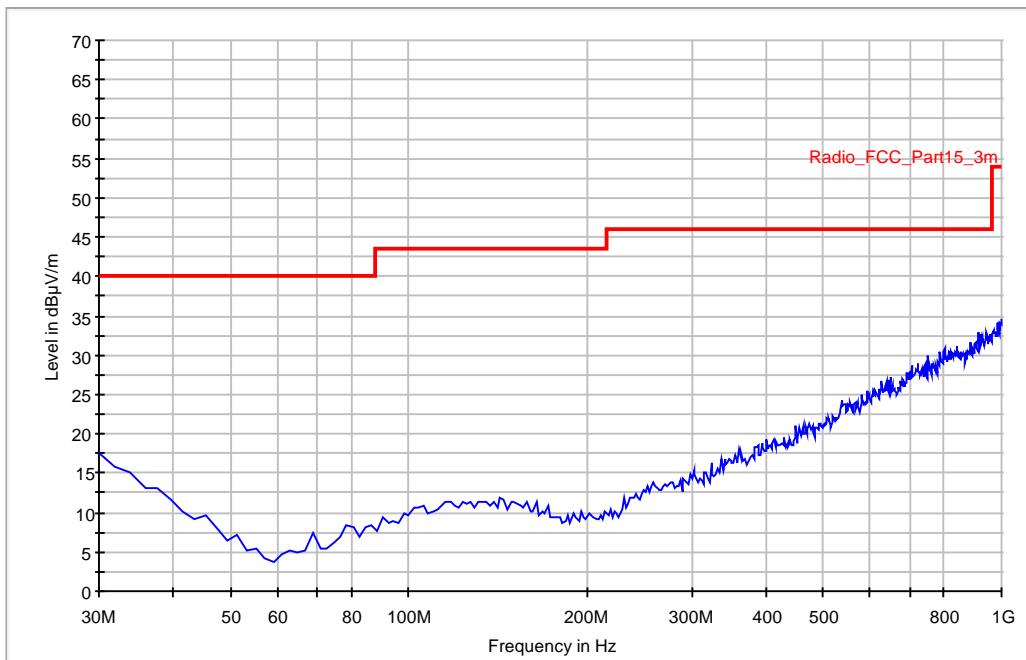
Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
4947.83654	V	Peak	52.65	\pm 4.0
4947.83654	V	Average	50.30	\pm 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

Verdict: PASS

Report No: 27271RET.101		Page: 11 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

FREQUENCY RANGE 30 MHz-1000 MHz.



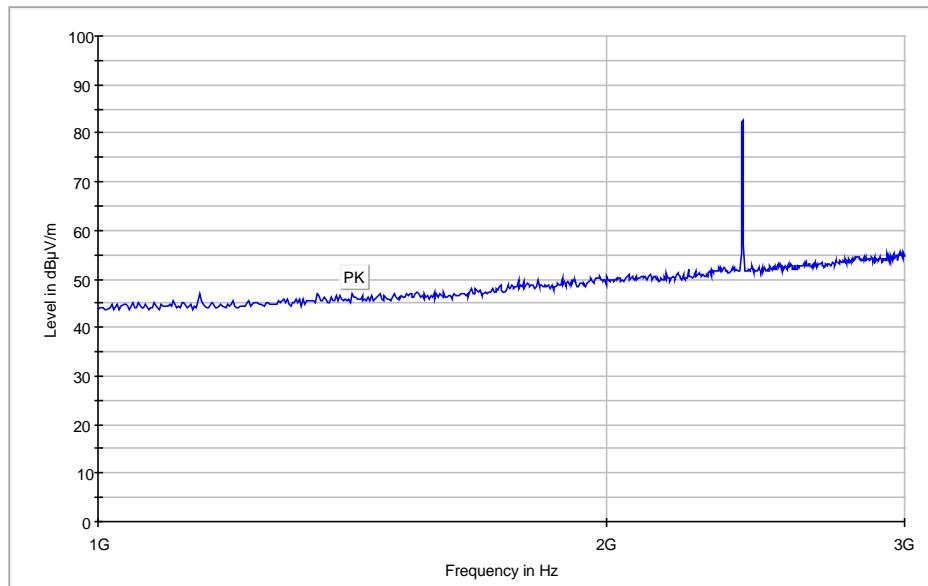
RBW = VBW = 100 kHz

(This plot is valid for all three channels).

Report No: 27271RET.101		Page: 12 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

FREQUENCY RANGE 1 GHz to 3 GHz.

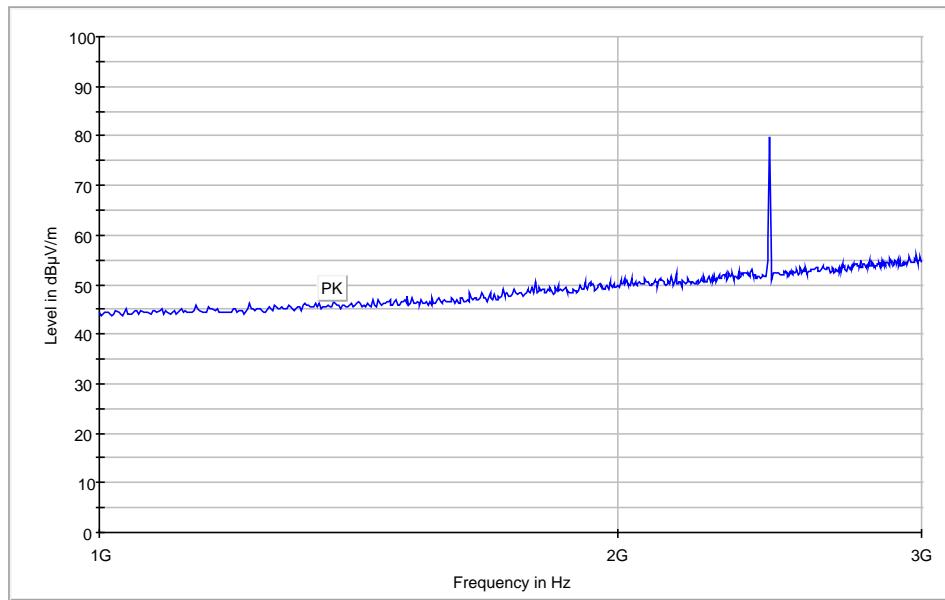
CHANNEL: Lowest (2405 MHz).



RBW = VBW = 1 MHz

Note: The peak shown in the plot is the carrier frequency.

CHANNEL: Middle (2447 MHz).

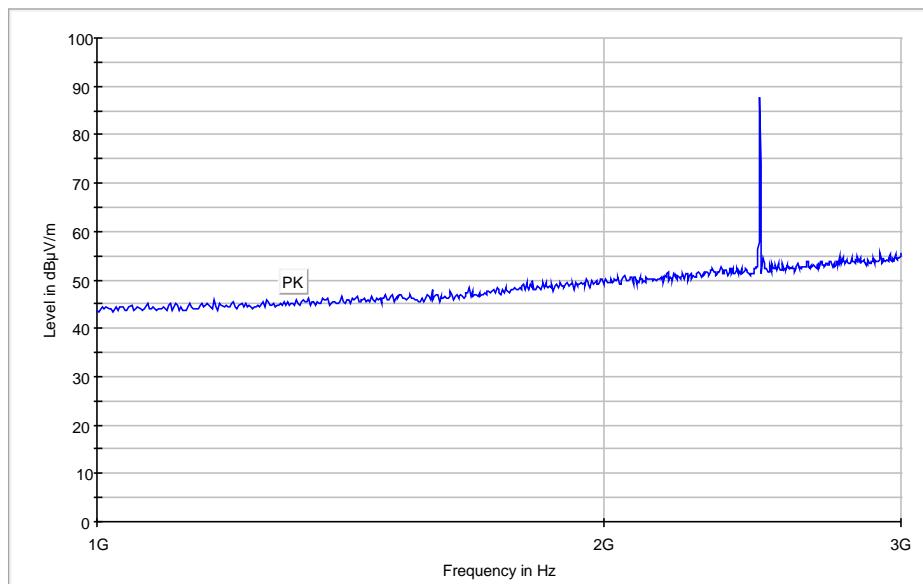


RBW = VBW = 1 MHz

Note: The peak shown in the plot is the carrier frequency.

Report No: 27271RET.101		Page: 13 of 23
Date: 2008-04-04 FET45_00.DOC		Annex A AGY-700-001833.001

CHANNEL: Highest (2474 MHz).



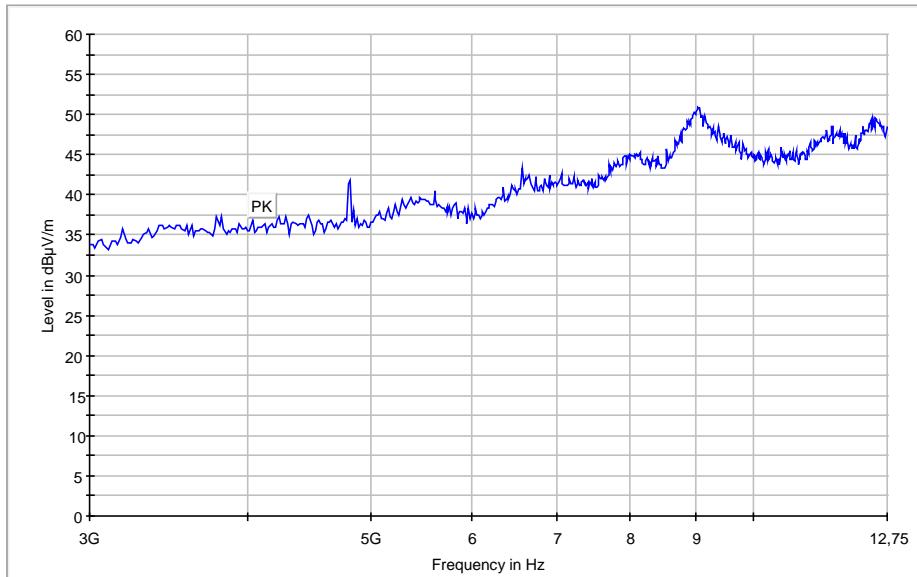
RBW = VBW = 1 MHz

Note: The peak shown in the plot is the carrier frequency.

Report No: 27271RET.101		Page: 14 of 23
Date: 2008-04-04 FET45_00.DOC		Annex A AGY-700-001833.001

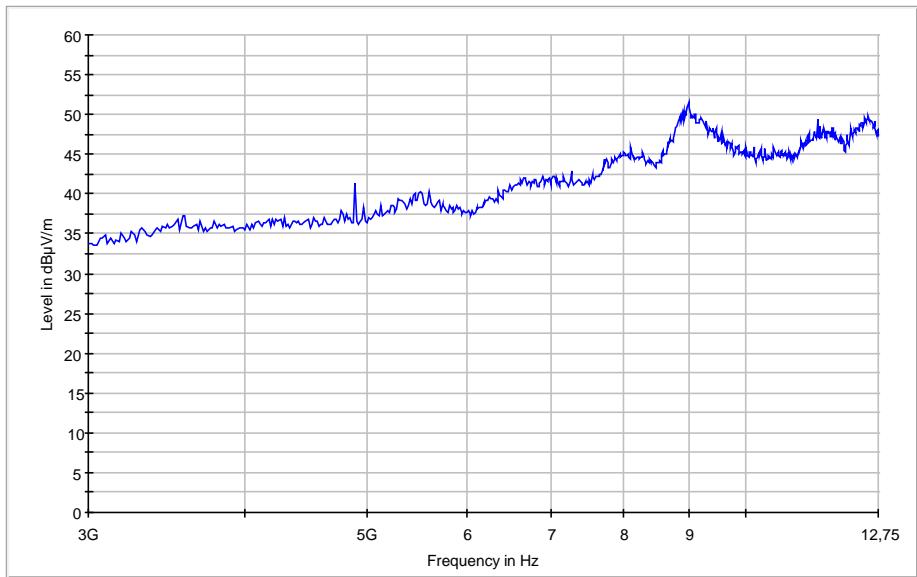
FREQUENCY RANGE 3 GHz to 12.75 GHz.

CHANNEL: Lowest (2405 MHz).



RBW = VBW = 1 MHz

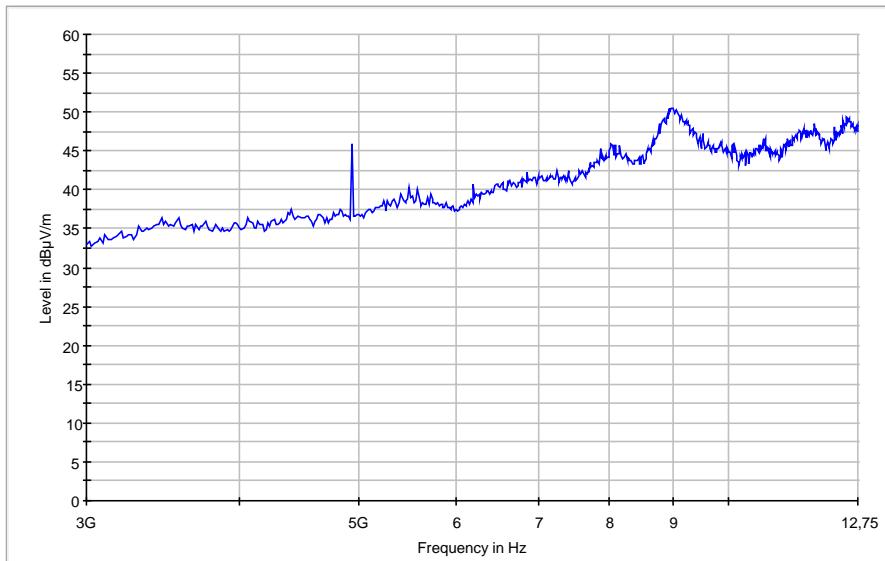
CHANNEL: Middle (2447 MHz).



RBW = VBW = 1 MHz

Report No: 27271RET.101		Page: 15 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

CHANNEL: Highest (2474 MHz).

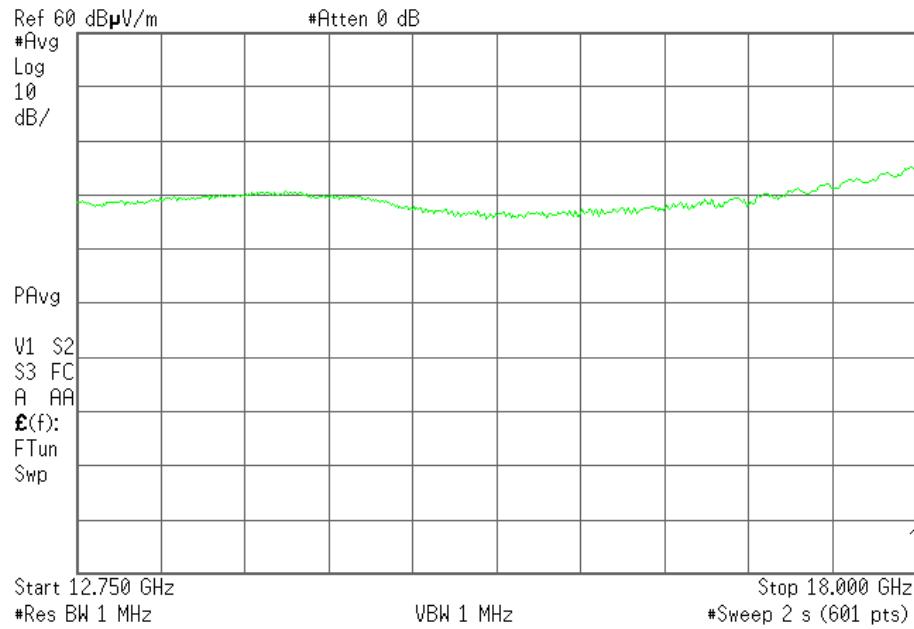


RBW = VBW = 1 MHz

Report No: 27271RET.101		Page: 16 of 23
Date: 2008-04-04 FET45_00.DOC		Annex A AGY-700-001833.001

FREQUENCY RANGE 12.75 GHz to 18 GHz.

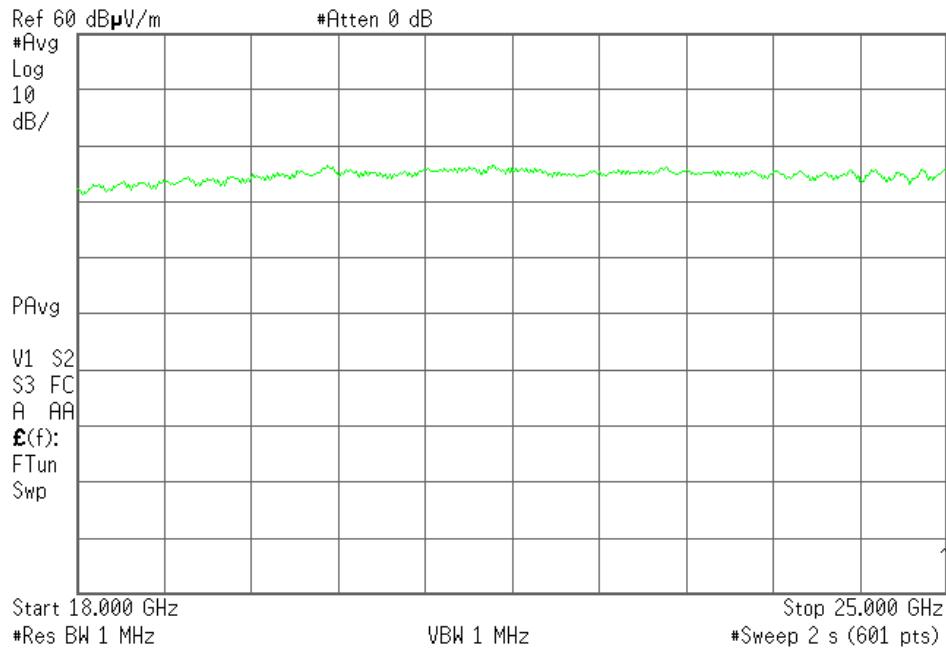
Agilent



(This plot is valid for all three channels).

FREQUENCY RANGE 18 GHz to 25 GHz.

Agilent



(This plot is valid for all three channels).

Report No: 27271RET.101		Page: 17 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

Section 15.109. Receiver spurious radiation

SPECIFICATION

The field strength shall not exceed the following values:

Frequency Range (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-25 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyser. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

Report No: 27271RET.101		Page: 18 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

Frequency range 30 MHz-1000 MHz.

No spurious signals were detected in all the range for the three operating channels.

Frequency range 1 GHz-25 GHz

1. CHANNEL: LOWEST (2405 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
2750.8333	V	Peak	40.46	\pm 4.0
2750.8333	V	Average	37.52	\pm 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

2. CHANNEL: MIDDLE (2447 MHz).

Spurious levels (radiated).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
2798.6859	V	Peak	41.59	\pm 4.0
2798.6859	V	Average	39.33	\pm 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

3. CHANNEL: HIGHEST (2474 MHz).

Spurious levels (radiated).

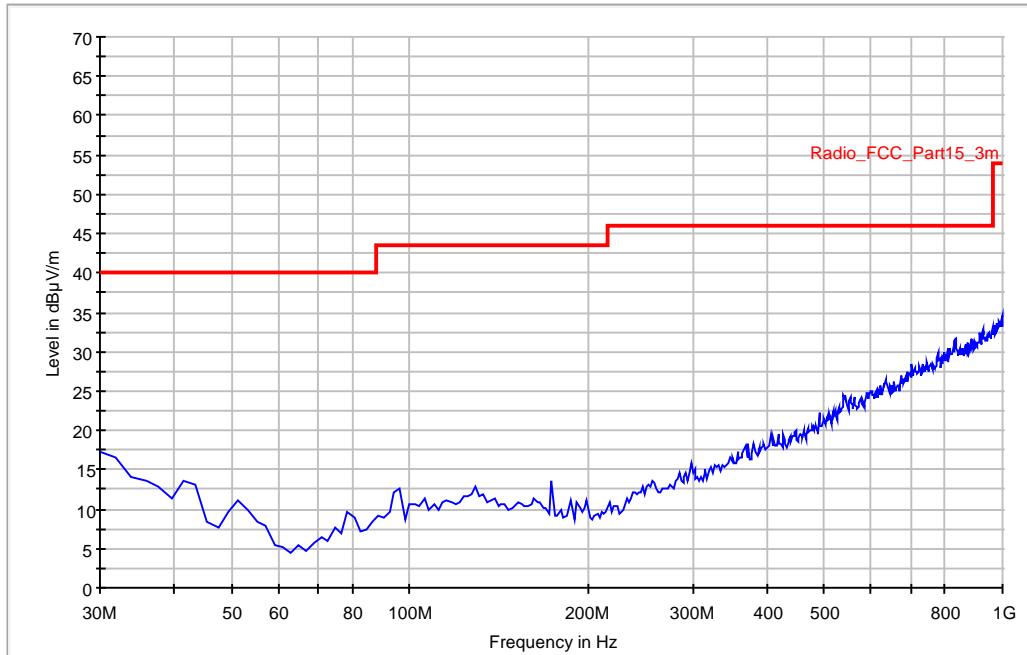
Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
2829.6154	V	Peak	40.78	\pm 4.0
2829.6154	V	Average	38.19	\pm 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

Verdict: PASS.

Report No: 27271RET.101		Page: 19 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

FREQUENCY RANGE 30 MHz-1000 MHz.



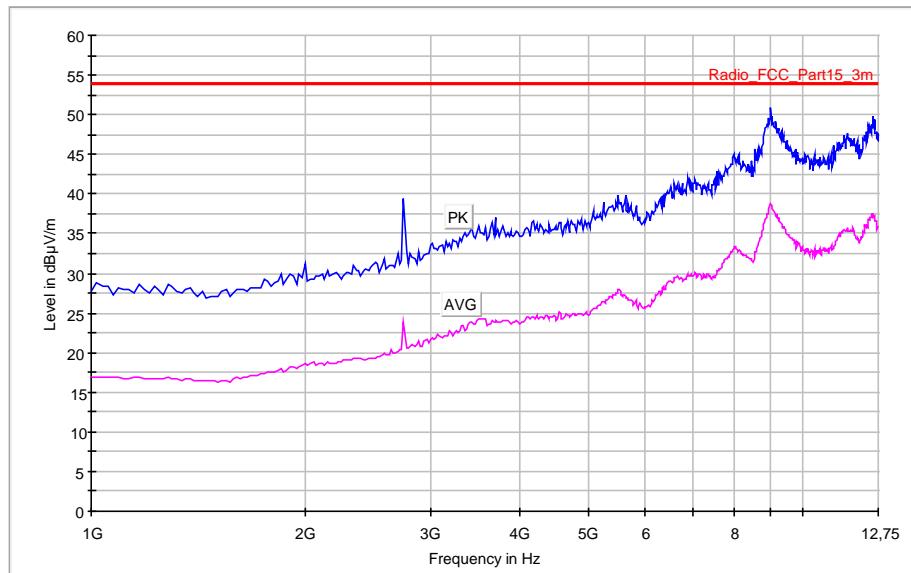
RBW = VBW = 100 kHz

(This plot is valid for all three channels).

Report No: 27271RET.101		Page: 20 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

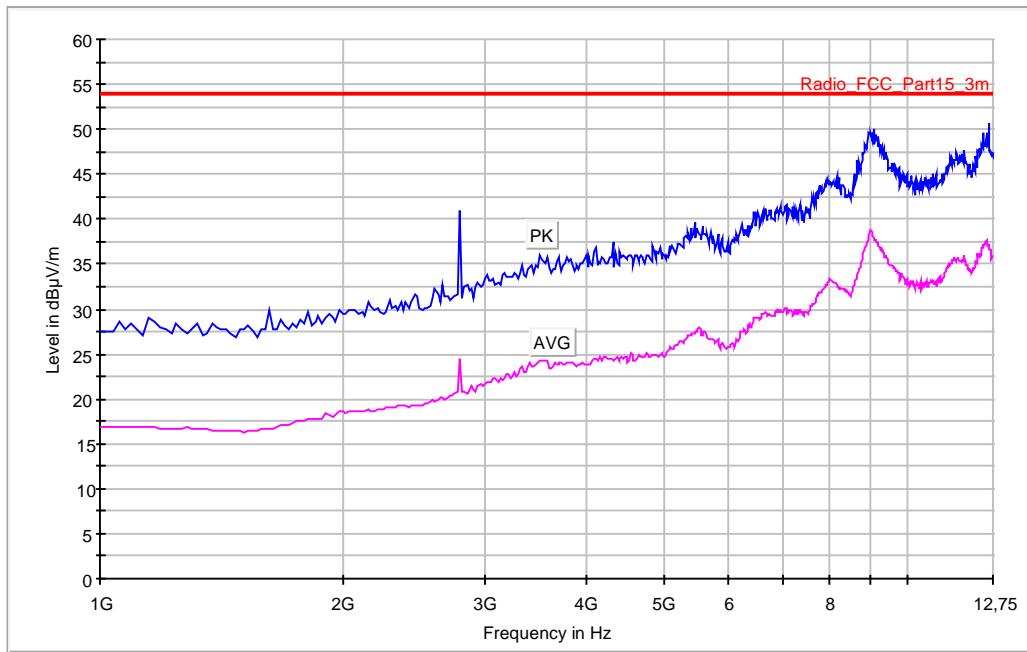
FREQUENCY RANGE 1 GHz-12.75 GHz.

CHANNEL: Lowest (2405 MHz).



RBW = VBW = 1 MHz

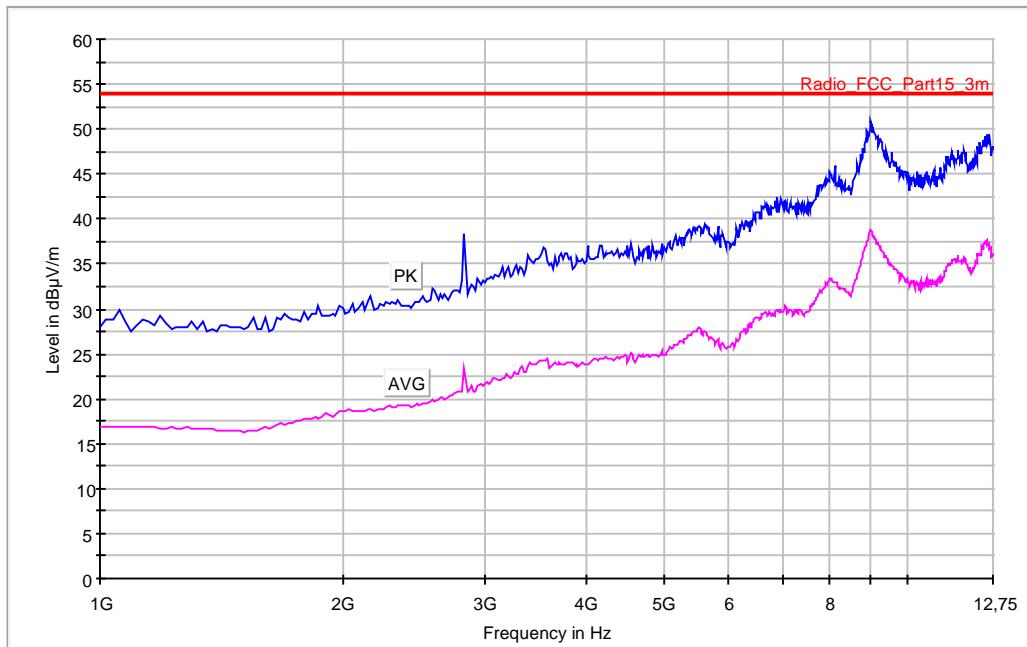
CHANNEL: Middle (2447 MHz).



RBW = VBW = 1 MHz

Report No: 27271RET.101		Page: 21 of 23
Date: 2008-04-04 FET45_00.DOC		Annex A AGY-700-001833.001

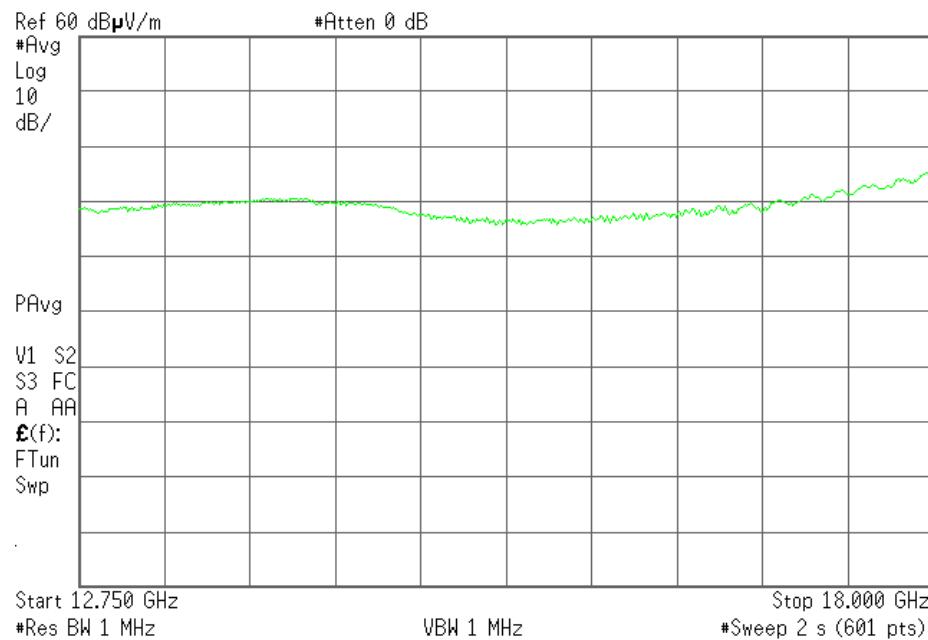
CHANNEL: Highest (2474 MHz).



RBW = VBW = 1 MHz

FREQUENCY RANGE 12.75 GHz-18 GHz.

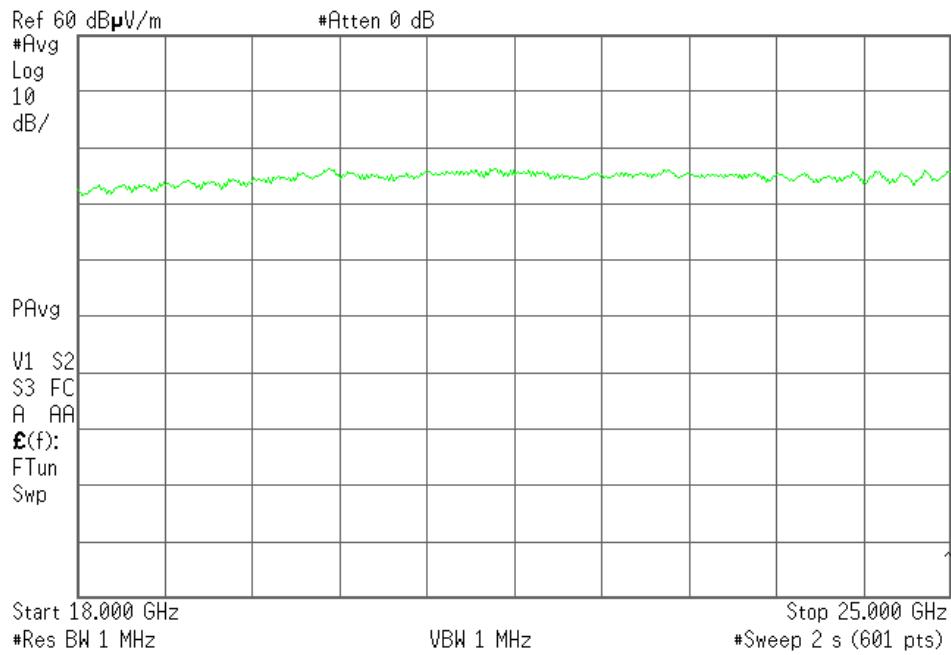
 Agilent



(This plot is valid for all three channels).

FREQUENCY RANGE 18 GHz-25 GHz.

 Agilent



(This plot is valid for all three channels).

Report No: 27271RET.101		Page: 23 of 23
Date: 2008-04-04		Annex A AGY-700-001833.001

ANNEX B
MEASURING RESULTS FOR
ELECTROMAGNETIC EMISSION

Report No: 27271RET.101

For the sample under test, named S/01, and that was formed by the elements described in the clause “Identification of the tested item/items” of this test report.

Report No: 27271RET.101		Page: 1 of 5
Date: 2008-04-04		Annex B AGY-700-001833.001

INDEX:

1. - CONTINUOUS CONDUCTED EMISSION, POWER LEADS ON THE SAMPLE S/01	3
2. - GRAPH RESULTS	3

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Report No: 27271RET.101		Page: 2 of 5
Date: 2008-04-04		Annex B AGY-700-001833.001

1. - CONTINUOUS CONDUCTED EMISSION, POWER LEADS ON THE SAMPLE S/01

LIMITS OF INTERFERENCE

The applied limit for continuous conducted emissions in power leads, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B in the frequency range 0,15 to 30 MHz, for Class B equipment was:

Frequency range (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0,15 to 0,5	66-56	56-46
0,5 to 5	56	46
5 to 30	60	50

TEST METHOD

According to Part 15, Subpart B of FCC Rules.

OPERATING MODES OF EUT

Different tested operating modes (OM)

- OM#01: EUT ON. Transmission mode.

TEST RESULTS

CCmmnnxx: CC, Conduction condition; mm: sample number; nn: operation mode; xx: wire.

- OM#01.

CDmmnnxx	Description	Result
CC01010N	Interference voltage on Neutral wire	PASS
CC0101L1	Interference voltage on phase wire	PASS

2. - GRAPH RESULTS

See next pages.

Report No: 27271RET.101		Page: 3 of 5
Date: 2008-04-04		Annex B AGY-700-001833.001

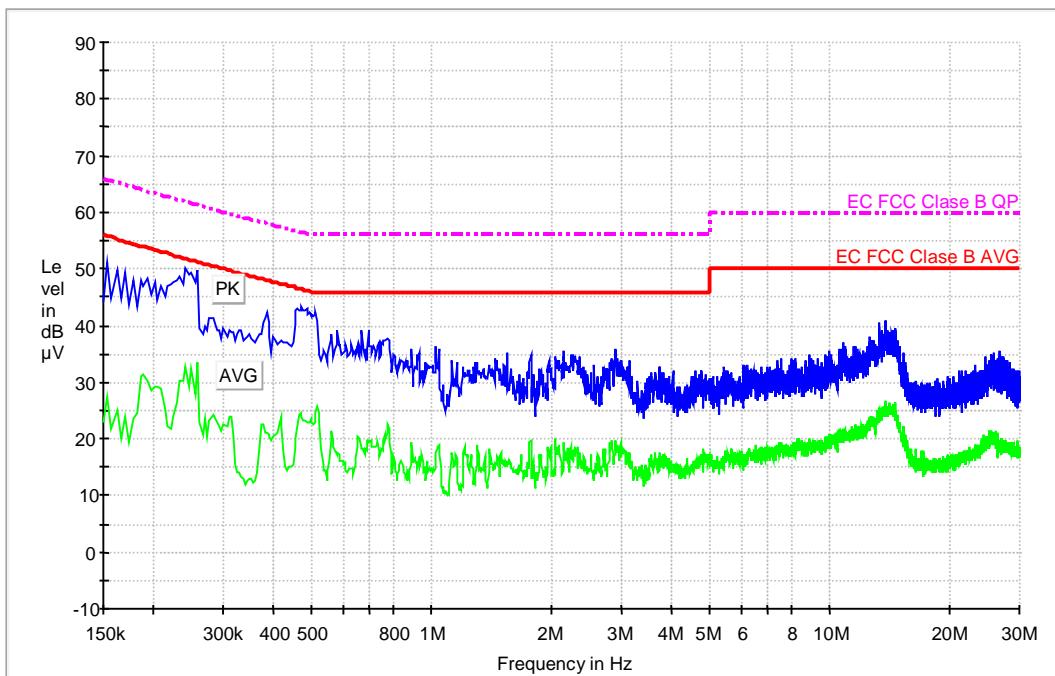
Continuous conducted emission: CC01010N (Peak and Average)

EMC32 Report

Test Information

Proyecto: 27271Biem.001
 Empresa: LOGITECH EUROPE S.A.
 Muestra: S/01
 Modo operacion: O.M.#01
 Fecha: 2008-01-14 20:19
 Setup: EMI conducted
 Mode: EUT ON. Transmission mode. Neutral Noise.

EC FCC Clase B ESIB26 CC



Max PK-AVG

Frequency (MHz)	MaxPeak-MaxHold (dBµV)	Average-MaxHold (dBµV)
0.154000	51.1	27.5
0.162000	49.6	25.0
0.170000	49.2	23.8
0.178000	47.8	23.4
0.186000	47.8	31.0
0.194000	48.4	30.2
0.202000	47.7	29.1
0.230000	48.0	26.6
0.234000	48.8	30.1
0.242000	50.2	32.6
0.246000	49.0	29.3
0.250000	49.2	32.5
0.258000	49.8	33.6

Report No: 27271RET.101 Date: 2008-04-04		Page: 4 of 5 Annex B AGY-700-001833.001
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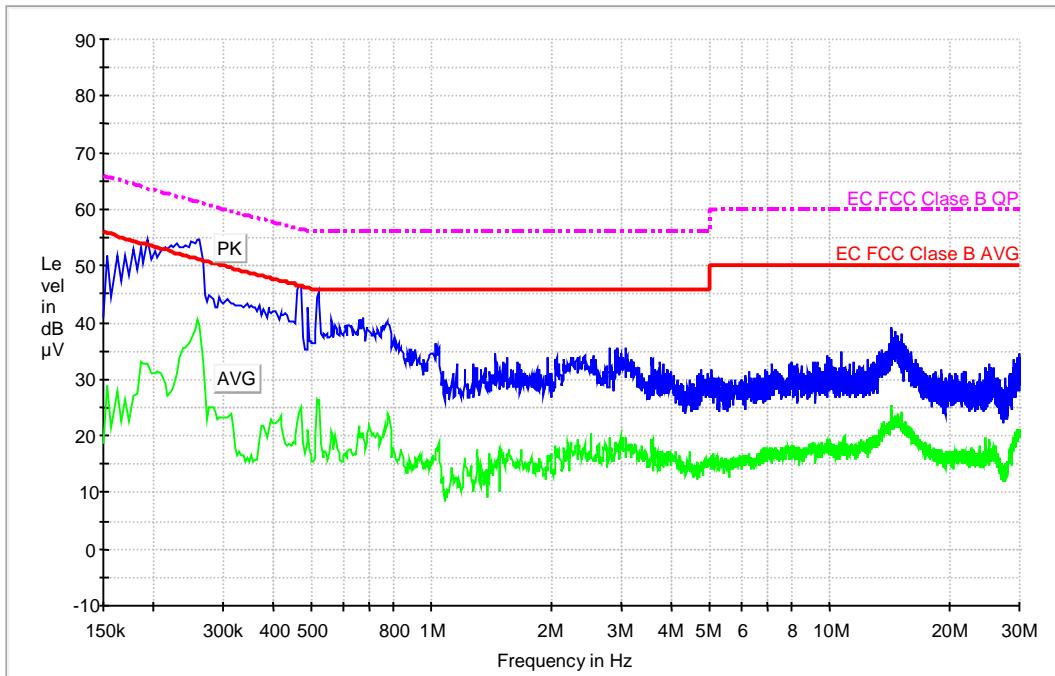
Continuous conducted emission: CC0101L1 (Peak and Average)

EMC32 Report

Test Information

Proyecto: 27271Biem.001
 Empresa: LOGITECH EUROPE S.A.
 Muestra: S/01
 Modo operacion: O.M.#01
 Fecha: 2008-01-14 20:39
 Setup: EMI conducted
 Mode: EUT ON. Transmission mode. Fase Noise.

EC FCC Clase B ESIB26 CC



Max PK-AVG

Frequency (MHz)	MaxPeak-MaxHold (dBµV)	Average-MaxHold (dBµV)
0.194000	54.6	32.9
0.214000	53.4	29.1
0.222000	53.5	27.8
0.226000	53.4	28.6
0.230000	54.1	31.1
0.234000	53.2	33.9
0.238000	53.4	35.6
0.242000	53.7	35.5
0.246000	53.4	36.4
0.250000	54.2	37.0
0.254000	53.9	38.9
0.258000	54.6	40.4
0.262000	54.6	39.6

Report No: 27271RET.101 Date: 2008-04-04	Page: 5 of 5 Annex B AGY-700-001833.001
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