



ETS Dr.GenZ Taiwan PS Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679

A2LA Cert.No.: 2300.01

PTCRB Accredited Type Certification Test House

FCC

TEST - REPORT

FCC RULES PART 15 SUBPART C

FCC ID: T4AHN-1304

Test report no.:W6M20606-7105-C-1

ETS DR.GENZ TAIWAN PS CO., LTD.
6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU, TAIPEI 114, TAIWAN, R.O.C.
PHONE 886-2-66068877 FAX 886-2-66068879

Registration number: W6M20606-7105-C-1
FCC ID: T4AHN-1304

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has Passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the ETS DR. GENZ TAIWAN PS CO., LTD

Tester:

March 03, 2007

Jay Chaing



Date

ETS-Lab.

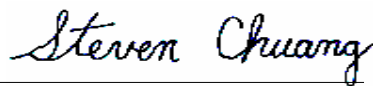
Name

Signature

Technical responsibility for area of testing:

March 03, 2007

Steven Chuang



Date

ETS

Name

Signature

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1.2 Testing laboratory

1.2.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 207, Taiwan (R.O.C.)
Company
ETS DR. GENZ TAIWAN PS CO., LTD.
6F, NO. 58, LANE 188, RUEY-KUANG RD.
NEIHU, TAIPEI 114, TAIWAN R.O.C.
Tel : 886-2-66068877
Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA-registration number: 2300.01

FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679

PTCRB Accredited Type Certification Test House

Town: ./.
Country: ./.
Telephone: ./.
Fax: ./.

1.3 Details of approval holder

Name : HALLOA ENTERPRISE CO., LTD.
Street : Fl. 9, No. 111-33, Sec. 4, San Ho Road, San Chung City
Town : Taipei Hsien 241
Country : Taiwan, R.O.C
Telephone : +886-2-2286 5678
Fax : +886-2-2286 9889

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1.4 Application details

Date of receipt of application : June 28, 2006
Date of receipt of test sample : July 07, 2006
Date of test : from July 08, 2006 to March 03, 2007

1.5 General information of Test item

Type of test item : FM WIRELESS TRANSMITTER
Model Number : HN-1304
Serial number : Test sample without serial number
Transmitting frequency : 88.1 – 88.3 MHz
Operation mode : simplex
Modulation Type : FM
Voltage supply : 12 VDC
Channel Numbers : 3
Frequency of selectable channel : 88.1 MHz / 88.2 MHz / 88.3 MHz
Antenna Type : Integral Antenna
Photos : see Appendix

Manufacturer:
(if applicable)

Name : 3D INTERNATIONAL HOLDINGS LTD.
Street : FACTORY A5, HAOERGONGHE INDUSTRIAL AREA,
SHAJING TOWN, BAOAN ZONE,
Town : SHENZHEN
Country : CHINA

Additional information : The testing items of this test report are all according to customer's request.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART B § 15.109 / SUBPART C § 15.203, § 15.209,
§ 15.239 : August 2006

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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified in 3 were ascertained in the course of the tests performed.



2.2 Test environment

Temperature	: 23 °C
Relative humidity content	: 20 ... 75 %
Air pressure	: 86 ... 103 kPa
Details of power supply	: 12 VDC

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2.3 Test equipment utilized

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2006/10/16	2007/10/15
ETSTW-CE 002	PREREULATOR MODE DC POWER SUPPLY	None	None		Function Test	
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2006/10/16	2007/10/15
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2006/10/16	2007/10/15
ETSTW-CE 006	IMPULS-BEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	In House Certificate	
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	ABSORPTIONS-MESSWANDLER-ZANGE	2005/10/24	2007/10/23
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2006/8/17	2007/8/16
ETSTW-CE 012	Dual-Phase-V-Network	NNB-2/16Z	03/10201	Telemeter	2006/6/13	2007/6/12
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2005/12/8	2007/12/7
ETSTW-CE 014	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T2-02	20241	FCC	2005/12/7	2007/12/6
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2006/11/7	2008/11/6
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2006/11/21	2007/11/20
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2005/10/14	2007/10/13
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2006/10/20	2007/10/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2006/10/30	2007/10/29
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2006/10/12	2007/10/11
ETSTW-RE 010	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070181	MOTECH	Function Test	
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	MOTECH	Function Test	
ETSTW-RE 017	ANTENNA	HL025	352886/001	R&S	2006/5/4	2008/5/3
ETSTW-RE 018	ANTENNA	AT4560	27212	AR	2004/11/8	2007/11/7
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2006/10/11	2007/10/10
ETSTW-RE 027	Passive Loop Antenna	6512	34563	EMCO	2004/6/30	2007/6/29
ETSTW-RE 028	Log-Periodic DipoleArray Antenna	3148	34429	EMCO	2006/5/26	2008/5/25
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2006/5/26	2008/5/25
ETSTW-RE 030	Double-Ridged Waveguide Horn Antenna	3117	35224	EMCO	2006/5/3	2008/5/2
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2006/10/11	2007/10/10
ETSTW-RE 033	4CH 1GHz 5GS/s DSO	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2006/7/27	2007/7/26
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2005/10/17	2007/10/16
ETSTW-RE 042	ANTENNA	HK116	100172	R&S	2007/1/13	2009/1/12
ETSTW-RE 043	ANTENNA	HL223	100166	R&S	2006/5/8	2008/5/7

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ETSTW-RE 044	ANTENNA	HL050	100094	R&S	2006/5/29	2008/5/28
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2005/3/22	2008/3/21
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2005/5/19	2007/5/18
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2006/7/28	2007/7/27
ETSTW-GSM 01	SIM Simulator	IT3	B2004-50106	ORGA	2006/7/26	2007/7/25
ETSTW-GSM 02	Universal Radio Communication Tester	CMU 200	109439	R&S	2006/10/18	2007/10/17
ETSTW-GSM 03	Agilent 8960 Test Set 1	E5515C	GB44052675	Agilent	2006/6/26	2008/6/25
ETSTW-GSM 04	Agilent 8960 Test Set 2	E5515C	GB44052665	Agilent	2006/6/29	2008/6/28
ETSTW-GSM 05	Agilent 8960 Test Set 3	E5515C	GB44052652	Agilent	2006/7/11	2008/7/10
ETSTW-GSM 06	Agilent 8960 Test Set 4	E5515C	GB44052684	Agilent	2006/7/4	2008/4/3
ETSTW-GSM 07	Agilent 8960 Test Set 5	E5515C	GB44052658	Agilent	2006/7/12	2008/7/11
ETSTW-GSM 08	Agilent 8960 Test Set 6	E5515C	GB44052666	Agilent	2006/7/6	2008/7/5
ETSTW-GSM 09	Controller PC	Dell GX 270	700F61J	Dell	Function Test	
ETSTW-GSM 10	Combiner Wessex / Anite	B4605/100	0053	Wessex / Anite	2006/9/22	2008/9/21
ETSTW-GSM 11	GSM 850,900,1800,1900 Test system	TS8950G		R&S	2004/12/03	2007/12/2
ETSTW-GSM 12	Acoustical Calibrator	4231	2463874	Brüel&Kjær	2006/7/26	2007/7/25
ETSTW-GSM 13	Conditioning Amplifier	2690--0S2	2437856	Brüel&Kjær	2006/7/26	2007/7/25
ETSTW-GSM 15	Mouth Simulator	4227	2462516	Brüel&Kjær	2006/7/26	2007/7/25
ETSTW-GSM 16	TEMP.&HUMIDITY CHAMBER	GTH-120-40-1P-U	MAA0501002	GIANT FORCE	2006/12/28	2007/12/27
ETSTW-GSM 18	AUDIO ANALYZER	UPL16	100173	R&S	2006/10/28	2007/10/27
ETSTW-GSM 23	SPLITTER	4901.19.A	None	SUHNER	Function Test	
ETSTW-GSM 24	Vibration Testing System	VS-100V	5494	Vibration	2006/12/19	2007/12/18
ETSTW-GSM 29	Microphone	4192	2458739	Brüel&Kjær	2006/7/26	2007/7/25
ETSTW-GSM 30	Ear Simulator	4195	2457416	Brüel&Kjær	2006/7/26	2007/7/25

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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2003 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2003 Section 13.1.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

Measurements were made by ETS Dr.Genz Taiwan PS Co., Ltd. at the registered open field test site located at No.5-1, Shuang Sing Village, LiShuei Rd., Wanli Township, Taipei County 207, Taiwan (R.O.C.) The Registration Number: **930600**.

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When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = $20 \log (\text{dwell time}/T)$

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANTENNA & GROUND:

This unit uses chip antenna. There is no provision for an external antenna (see photo).

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2.5 Product Description and System Test Configuration

2.5.1 Production Description

This Equipment Under Test (EUT) is a FM wireless transmitter which can be operated from 88.1 to 88.3 MHz. The main function of this EUT is used to encode analog signal to become FM code, and control the transmitter frequency to the radio receivers and broadcast. Because of this function, it could be used to read MP3 file of USB storage device to play music. This transmitter is fed by 12V car power supply.

2.5.2 System Test Configuration

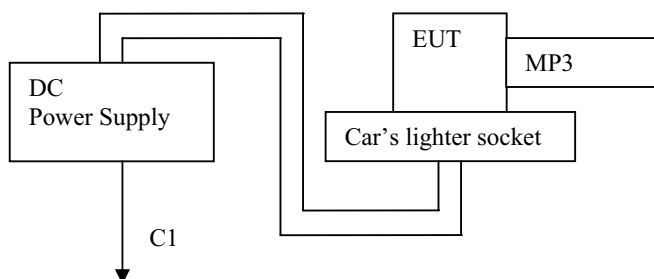
2.5.2.1 Supported Ancillary Equipment

Item	Name of Equipment	Manufacturer	Model Number	FCC ID	Note
1	MP3 Player	A-DATA	My-Flash	N/A	N/A
2	DC Power Supply	ABM	9306D	N/A	N/A
3	Car's light socket	N/A	N/A	N/A	N/A

2.5.2.2 The relevant cables of Supported Ancillary Equipment

Item	Name of Cables	Shielded Used	Ferrite Used	Length	Note
C1	Power Cord	Non-Shielded	Non-Ferrite	1.0m	Detachable

2.5.2.3 Setup Configuration



2.5.2.4 Description of Test Mode

The system was configured for testing in a typical arrangement as the manufacturer's declaration. During the test, the MP3 player played music and set the volume to the maximum level. There was no special software to be exercised during the test.

There are three channels on EUT, and the operating frequency range of EUT is from 88.1 MHz to 88.3 MHz. We choose the middle channel (88.2 MHz) for main final test, except choosing the lowest channel (88.1 MHz) for Band Edge testing.

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2.6 The Description of Modification

Any modification made previous to test by 3D INTERNATIONAL HOLDINGS LTD. will be incorporated in each product sold in the United States.

No modification was made by ETS Dr. Genz Taiwan PS Co., Ltd.

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3 Test results (enclosure)

TEST CASE	Required	Test passed	Test failed
Emission bandwidth 15.239 (a)	☒	☒	☐
Band Edge Measurement 15.239 (a)	☒	☒	☐
Carrier (Field Strength) 15.239 (b)	☒	☒	☐
Spurious Emissions 15.239 (c)	☒	☒	☐
Power Line Conducted Emission 15.207	☐	☐	☐

Note: The lowest channel is 88.1 MHz and the highest channel is 88.3 MHz. The tuning control were manually adjusted to verify maximum tuning range.

The follows is intended to leave blank.

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3.1 Emission Bandwidth

FCC Rule: 15.239(a)

Test condition		Detector	Bandwidth (kHz)	Limit (kHz)
$T_{\text{nom}} = 23^{\circ}\text{C}$	$V_{\text{nom}} = 12 \text{ V}$	Peak	138.7776	200
Measurement uncertainty			< 10 Hz	

Limit: 15.239(a)

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 029, ETSTW-RE 042

Comment : See attached diagrams as Appendix A.

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3.2 Band Edge Measurement

FCC Rule: 15.239(a)

Channel	Frequency MHz	Detector	Test Results (dB μ V/m)	Limit (dB μ V/m)
Lower Band-edge	88.1	Peak	32.84	40
Upper Band-edge	88.3	Peak	--	40

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 029, ETSTW-RE 042

Comment : Before testing, the tuning control were manually adjusted to verify maximum tuning range. The lowest channel is 88.1 MHz and the highest channel is 88.3 MHz. For Band edge Measurement, the Upper Band-edge is not required because the highest operational frequency (88.3 MHz) is much far from the 108 MHz. See attached diagrams as Appendix B.

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3.3 Carrier (Field Strength)

FCC Rule: 15.239(b) , 15.35

Test condition		Detector	Carrier Frequency (MHz)	Field strength (dBuV/m)	Limit (dBuV/m)
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 12\text{ V}$	Peak	88.2	45.93	47.95
Measurement uncertainty			< 3 dB		

Limit:

15.239(b)

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter (47.95 dBuV/m) at 3 meters.

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 029, ETSTW-RE 042

Comment : In this case, the average limit is met when using a peak detector, the EUT shall be deemed to meet both limits of peak and average and measurement with the average detector is unnecessary. See attached diagrams as Appendix C.

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3.4 Spurious Emission

FCC Rules: 15.239 (c), 15.209

Radiated emission measurements were performed from 30 MHz to 1000 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency $\leq$ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)

Frequency $>$ 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)

Frequency $>$ 1 GHz , RBW:1 MHz , VBW: 10Hz (Average measurements)

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

Summary table with radiated data of the test plots

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Azimuth (degree)
H	176.408	25.71	14.39	QP	40.1	43.5	3.40	345	92
	188.045	27.19	13.01	QP	40.2	43.5	3.30	365	90
	299.458	26.68	15.22	QP	41.9	46	4.10	350	88
	451.045	24.07	18.93	QP	43.0	46	3.00	250	100
	628.945	20.86	22.34	QP	43.2	46	2.80	245	42

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Azimuth (degree)
V	176.408	26.71	14.39	QP	41.1	43.5	2.40	240	90
	188.045	28.19	13.01	QP	41.2	43.5	2.30	245	91
	363.452	26.62	16.78	QP	43.4	46	2.60	345	111
	451.045	25.27	18.93	QP	44.2	46	1.80	350	98
	628.945	22.06	22.34	QP	44.4	46	1.60	360	44

- Note**
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
 2. The formula of measured value as: Test Result = Corrected Reading + Correction Factor
 3. Detector function in the form : P = Peak, QP = Quasi Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.

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Limits: 15.209

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 017, ETSTW-RE 028,
ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 042, ETSTW-RE 043,
ETSTW-RE 044

Comment : See attached diagrams as Appendix D.

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3.5 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Test equipment used: ETSTW-CE 001, ETSTW-CE 003, ETSTW-CE 004, ETSTW-CE 006

Comment: For battery operated device, this test item is not applicable.

Registration number: W6M20606-7105-C-1
FCC ID: T4AHN-1304

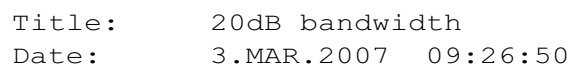
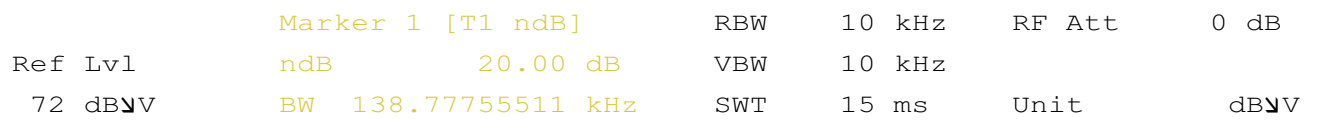
Appendix

- A Emission Bandwidth
- B Band Edge Measurement
- C Carrier Field Strength
- D Spurious Emissions
- E Pictures

Registration number: W6M20606-7105-C-1
FCC ID: T4AHN-1304

Appendix A

Emission Bandwidth



Registration number: W6M20606-7105-C-1
FCC ID: T4AHN-1304

Appendix B

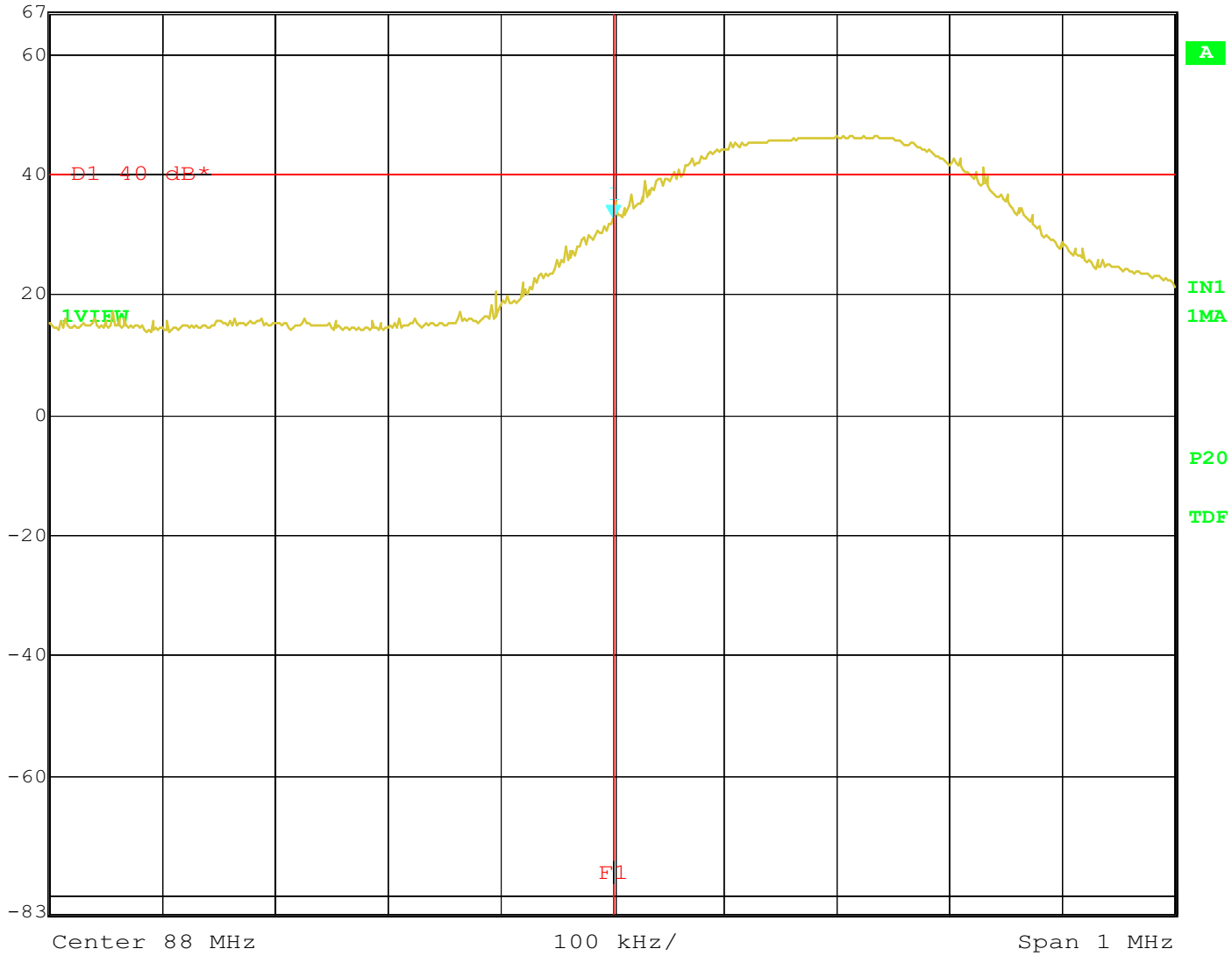
Band Edge Measurement



Ref Lvl
67 dB*

Marker 1 [T1]
32.84 dB μ V/m
88.00000000 MHz

RBW 100 kHz RF Att 10 dB
VBW 100 kHz
SWT 560 ms Unit dB μ V/m



Title: Bandedge
Date: 29.JAN.2007 14:51:37

Registration number: W6M20606-7105-C-1
FCC ID: T4AHN-1304

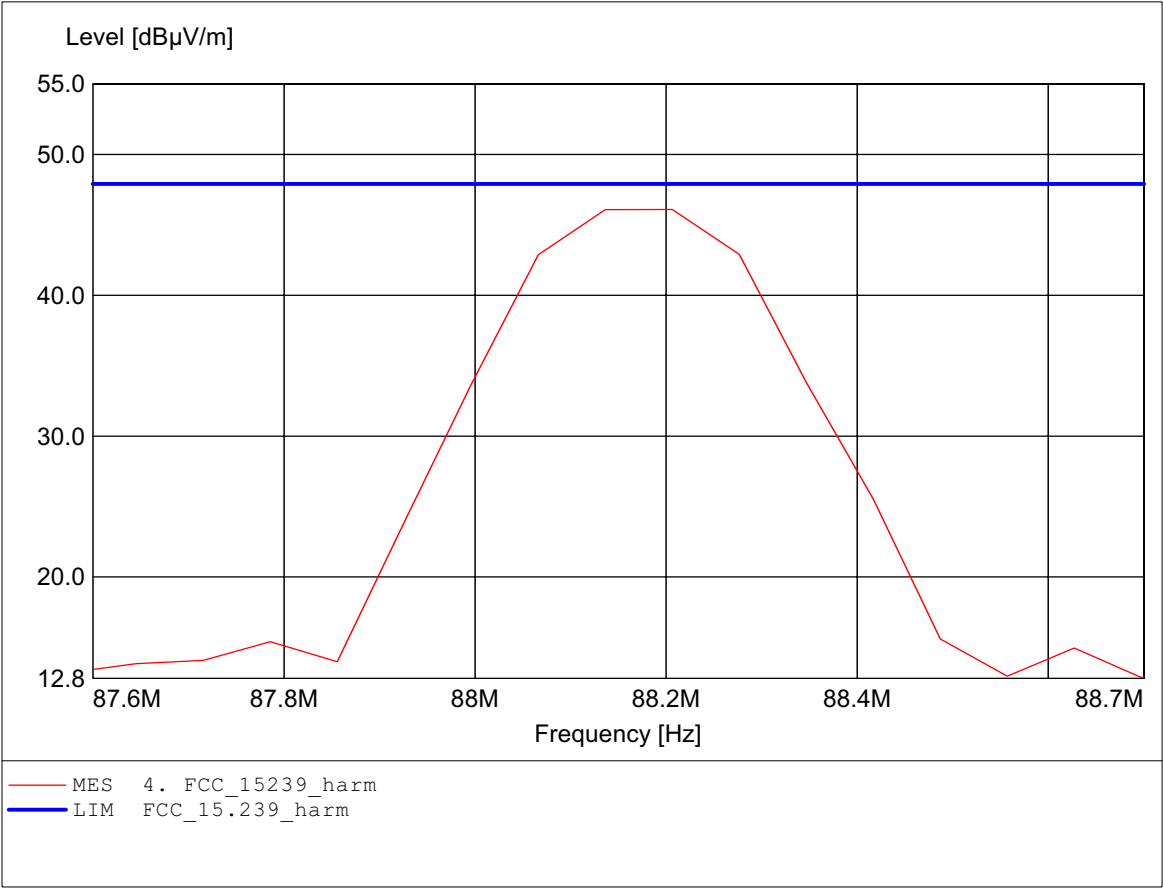
Appendix C

Carrier Field Strength

Field Strength of Fundamental

FCC RULES PART 15, SUBPART C / LP0002

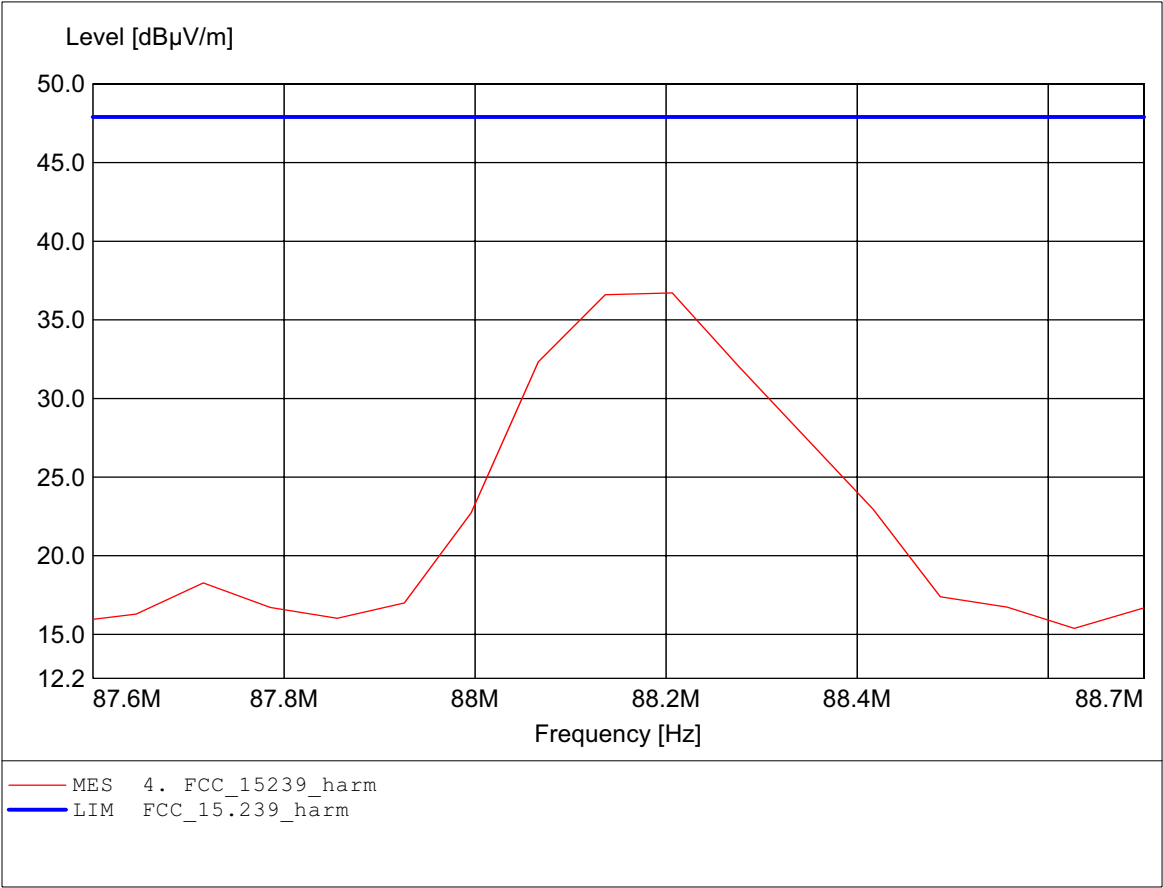
Order Number : W6M20606-7105 (88.2MHz)
Test Site / Operator: ETS / Charles
Temperature:: Temp.: 23.9°C
according to Section15.239
Comment 1: Dist.: 3m, Ant.: HL223
Freq: 88.212MHz, Emax: 45.93dBμV/m, RBW: 100kHz



Field Strength of Fundamental

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20606-7105 (88.2MHz)
Test Site / Operator: ETS / Charles
Temperature:: Temp.: 23.9°C
according to Section15.239
Comment 1: Dist.: 3m, Ant.: HL223
Freq: 88.206MHz, Emax: 36.72dBμV/m, RBW: 100kHz



Registration number: W6M20606-7105-C-1
FCC ID: T4AHN-1304

Appendix D

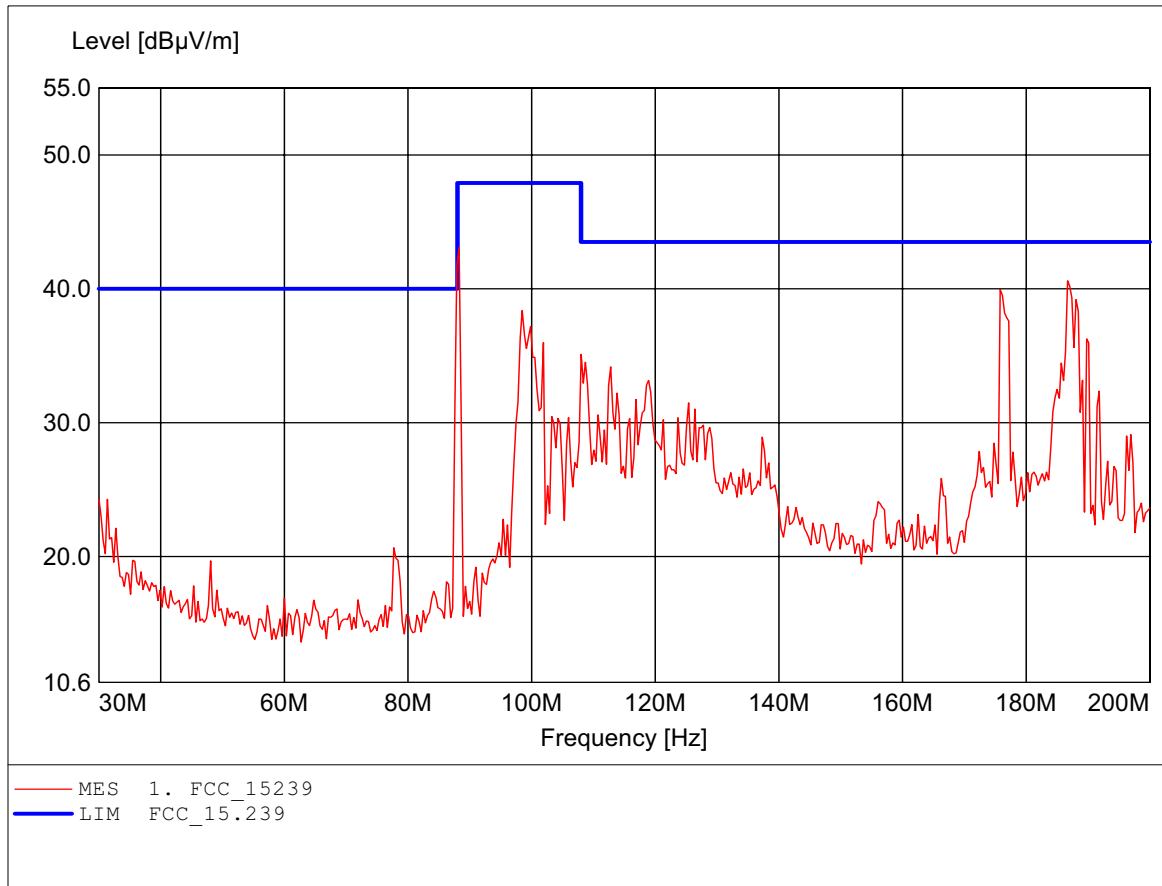
Spurious Emissions

The measurement diagrams plots attached below are preliminary wideband scan with a peak detector and for reference only. The final test results are listed on section 3.3.

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

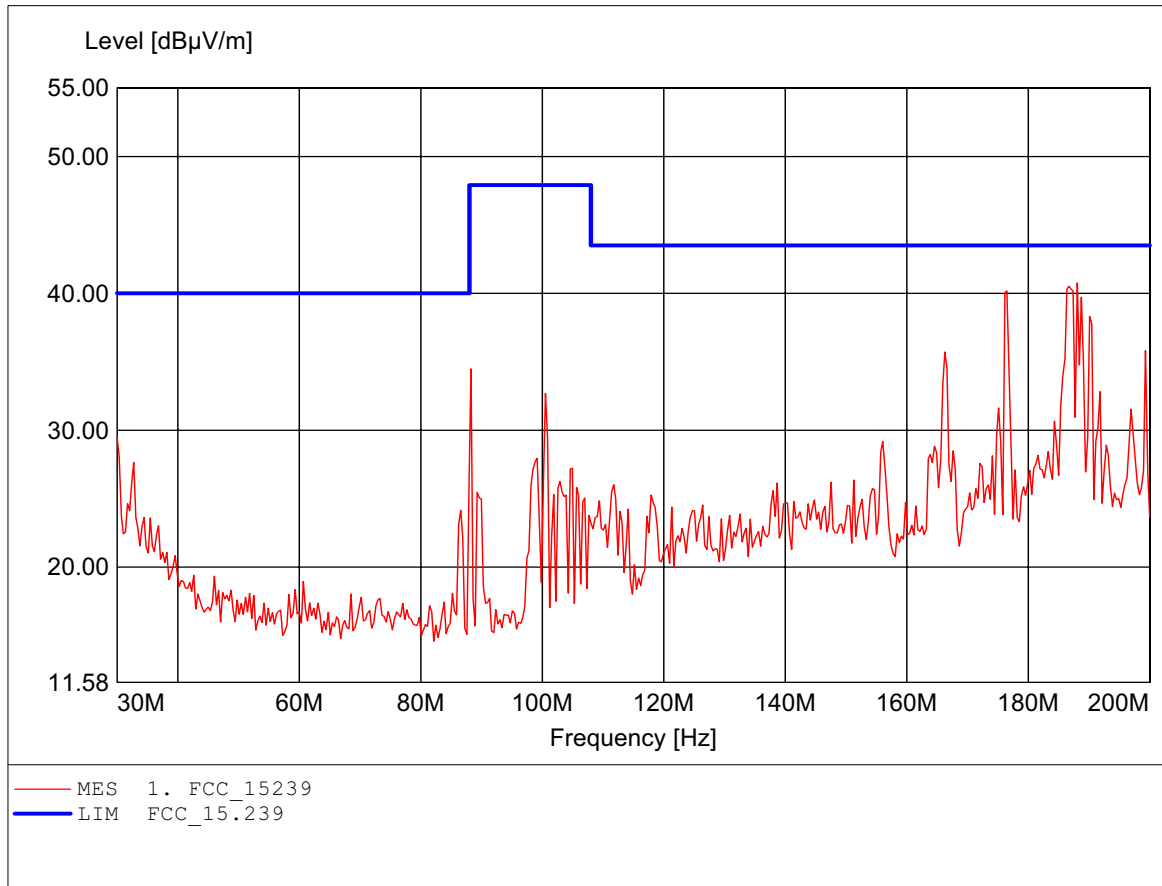
Order Number : W6M20606-7105 (88.2MHz)
Test Site / Operator: ETS / Charles
Temperature:: Temp.: 23.9°C
according to Section15.239
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 88.257MHz, Emax: 43.09dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

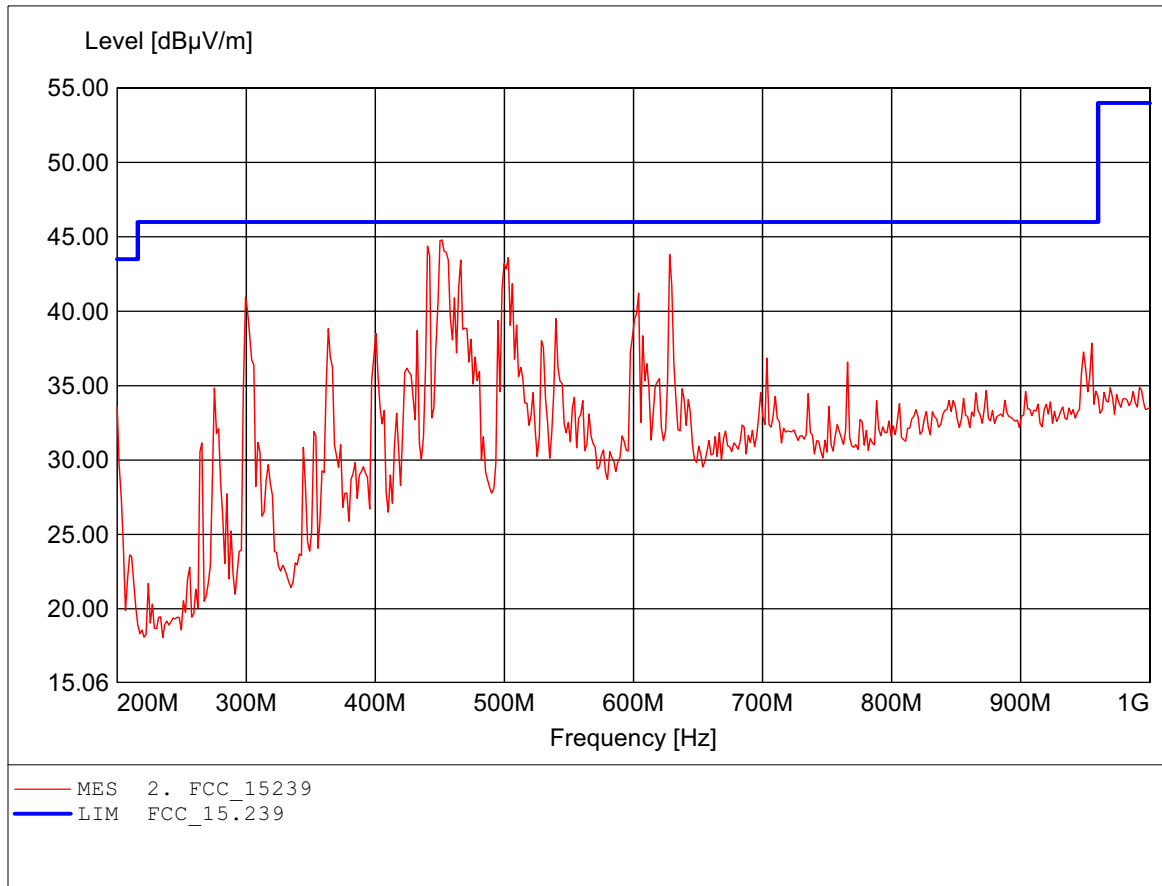
Order Number : W6M20606-7105 (88.2MHz)
Test Site / Operator: ETS / Charles
Temperature:: Temp.: 23.9°C
according to Section15.239
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 188.076MHz, Emax: 40.76dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

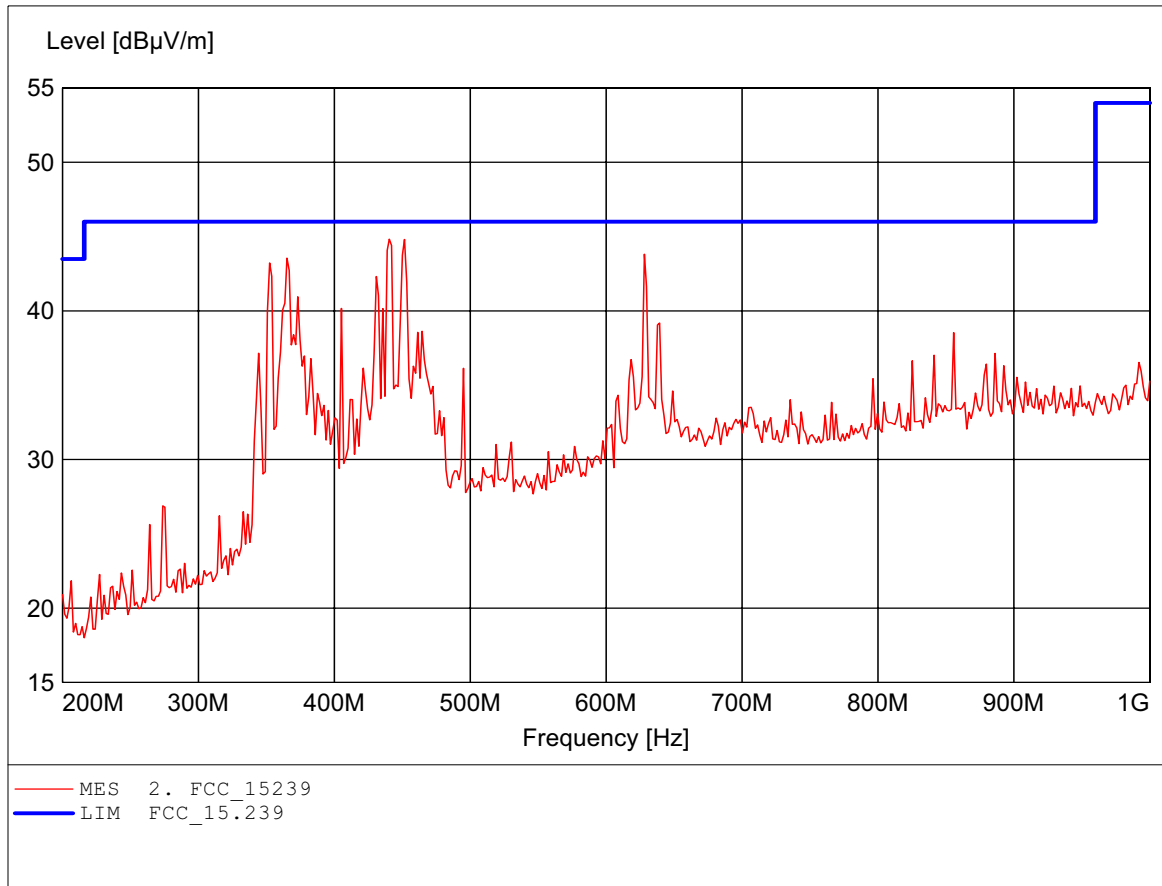
Order Number : W6M20606-7105 (88.2MHz)
Test Site / Operator: ETS / Charles
Temperature:: Temp.: 23.9°C
according to Section15.239
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Freq: 451.703MHz, Emax: 44.80dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20606-7105 (88.2MHz)
Test Site / Operator: ETS / Charles
Temperature:: Temp.: 23.9°C
according to Section15.239
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Freq: 440.481MHz, Emax: 44.83dBμV/m, RBW: 100kHz



Registration number: W6M20606-7105-C-1
FCC ID: T4AHN-1304

Appendix E

Pictures

Registration number: W6M20606-7105-C-1
FCC ID: T4AHN-1304

External Photos