

Verification of Conformity for FCC DoC Procedure

It is herewith confirmed and found the following designated product

Product Name: GPS Tracker

Model: MT90

.....
(Product Identification)

*to comply with the technical requirements set up by ANSI C63.4 & CFR 47 FCC PART 15
regulations for the evaluation of electromagnetic compatibility with.*

Test Report Number(s): 57509

issued on: November 27, 2012

.....
(Identification of regulations / standards)

Applicant : Shenzhen Meiligao Electronics Co., Ltd.

Address : 6/F, West Tower, Cafu Plaza(Sheraton), No.5, Guihua Rd, Futian
Trade Zone, Shenzhen, China.

.....
(Applicant Identification)

TEST LABORATORY

This is the test result, that was carried out based on the submitted sample(s) of the product in conformity with the specification of the respective standards.



.....
Stephen C.N. Wong
Technical Manager

November 27, 2012



This verification is related to the submitted sample(s) and in conjunction with the test data detailed in the above test report.

FCC Test Report (DoC)

Application No.: 57509
Applicant: Shenzhen Meiligao Electronics Co., Ltd.
Product Information:
Product Name: GPS Tracker
Model: MT90
Serial No.: --
Requirement: CFR 47 FCC PART 15 SUBPART B, 2011
Date of Receipt: November 21, 2012
Date of Test: November 21, 2012 to November 22, 2012
Date of Issue: November 27, 2012

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

Authorized Signature:



Stephen C.N. Wong
Technical 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. Any mention of SGS IECC Ltd. or testing done by SGS IECC Ltd. in connection with, distribution or use of the product described in this report must be approved by SGS IECC Ltd. in writing.

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2011	ANSI C63.4:2009	Class B	PASS
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2011	ANSI C63.4:2009	Class B	PASS
Radiated Emission above 1 GHz	FCC PART 15, SUBPART B: 2011	ANSI C63.4:2009	Class B	N/A ¹⁾
Remark : 1) Please refer to section 6.3 of this report for explanation				

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4 General Information

4.1 Client Information

Applicant: Shenzhen Meiligao Electronics Co., Ltd.
Address of Applicant: 6/F, West Tower, Cafu Plaza(Sheraton), No.5, Guihua Rd, Futian Trade Zone, Shenzhen, China.
Manufacturer: Shenzhen Meiligo Electronics Co., Ltd.
Address of Manufacturer: 6/F, West Tower, Cafu Plaza(Sheraton), No.5, Guihua Rd, Futian Trade Zone, Shenzhen, China.
Factory: Shenzhen Meiligao Electronics (factory) Co., Ltd.
Address of Factory: 2/F, Block C, Meicheng Industrial Park, Dalang, Baoan, Shenzhen 518109

4.2 General Description of EUT

EUT Name: GPS Tracker
Model: MT90
Serial No.: --
EUT Description: GPS with USB port

4.3 Details of EUT

Power Supply: Model:TC-G90
Input: AC 100-240V 50/60Hz 0.15A
Output: DC 5V 500mA
Test voltage: AC 120V 60Hz
Rechargeable battery: DC 3.7V 1100mAh 4.07Wh
USB cable: 120cm shielded cable with two ferrite core
Operating frequency 8MHz (the highest working frequency)
(excepte RF part):

4.4 Description of Support Units

Supporting equipment :

Description	Manufacturer	Model No.	Serial No.	Data Cable	Power Cable
Personal Computer	DELL	OPTIPLEX 755	E191 (reference no.)	N/A	1.5m
Monitor	DELL	SP2208WFPt	DT09068168F B	VGA	1.5m
Printer	Hewett Packard	C3990A	JPZT098822	LPT	1.5m
Universal Programmer	Qian LongSheng	QL-2006	201105116086	COM/USB ¹⁾	1.5m (DC)
Keyboard	Lenovo	KB1021	0000319	USB ²⁾	N/A
Mouse	Lenovo	MO28UOL	4401282 081	USB ³⁾	N/A-

Note: For the cable detail please refer to below table.

Cables:

#	Type	Length, m	Shield	Metallic hood	Ferrite
1	VGA	1.8	Yes	No	Yes
2	LPT	1.8	Yes	No	No
3	COM	1.5	Yes	No	No
4	USB ¹⁾	1.5	Yes	No	No
5	USB ²⁾	1.8	Yes	No	No
6	USB ³⁾	1.8	Yes	No	No

Software:

Description	Manufacturer	Software name	Version no.
USB Driver	Microsoft	USB Input Device Driver	6.1.7601.17514
USB Driver	Microsoft	USB Mass Storage Device Driver	5.1.2600.0
EMC test software	Meitrack	Meitrack Manager	1.0.9012.9020

4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, Oct 2011
ANSI C63.4:2009

4.6 Test Location

All tests were performed at: (except radiated emission above 1 GHz)

SGS IECC Limited (Member of the SGS Group (SGS SA))

Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480.

No tests were sub-contracted.

4.7 Test Laboratory

The test laboratory is recognized by FCC as accredited laboratory:

- **FCC – CAB Registration No.: 446297**

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Declaration of Family Grouping

None.

4.11 Abbreviations

N/A: Not Applicable

EUT: Equipment Under Test

5 Equipments Used during Test

Conducted Emission				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
Test Receiver	Rohde & Schwarz	ESCS 30 /100388	2011-12-28	2012-12-27
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2 / 375881052	2010-02-12	2013-02-11
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127 / 8127312	2012-08-30	2013-08-29

Radiated Emission				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
3m Semi-Anechoic Chamber (pre-test)	--	--	--	--
3m / 10m Open Area Test Site	--	--	2012-02-24	2015-02-23
Test Receiver	Rohde & Schwarz	ESCS 30 /100388	2011-12-28	2012-12-27
Antenna, 30MHz – 1000MHz	Schaffner	CBL6111C/ 2791	2012-10-12	2014-10-11
Coaxial Cable	--	E167	2012-08-01	2013-07-31
Antenna Mast System	Schwarzbeck	AM9104 / -	--	--
Turntable with Controller	Drehtisch	DT312 / -	--	--

6 Test Results

6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B
 Test Method: ANSI C63.4:2009
 Test Voltage & frequency: 120V AC, 60Hz
 Test Date: November 21, 2012
 Frequency Range: 150kHz to 30MHz
 Class / Severity: Class B
 Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
 Quasi-Peak and Average if maximised peak within 20dB of Quasi-Peak limit

Limit:

Frequency range MHz	Class B Limits dB (µV)	
	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 limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.
- 2) The lower limit is applicable at the transition frequency.

6.1.1 EUT Operation

Operating Environment:

Temperature: 23°C

Humidity: 50%

Atmospheric Pressure: 1015mbar

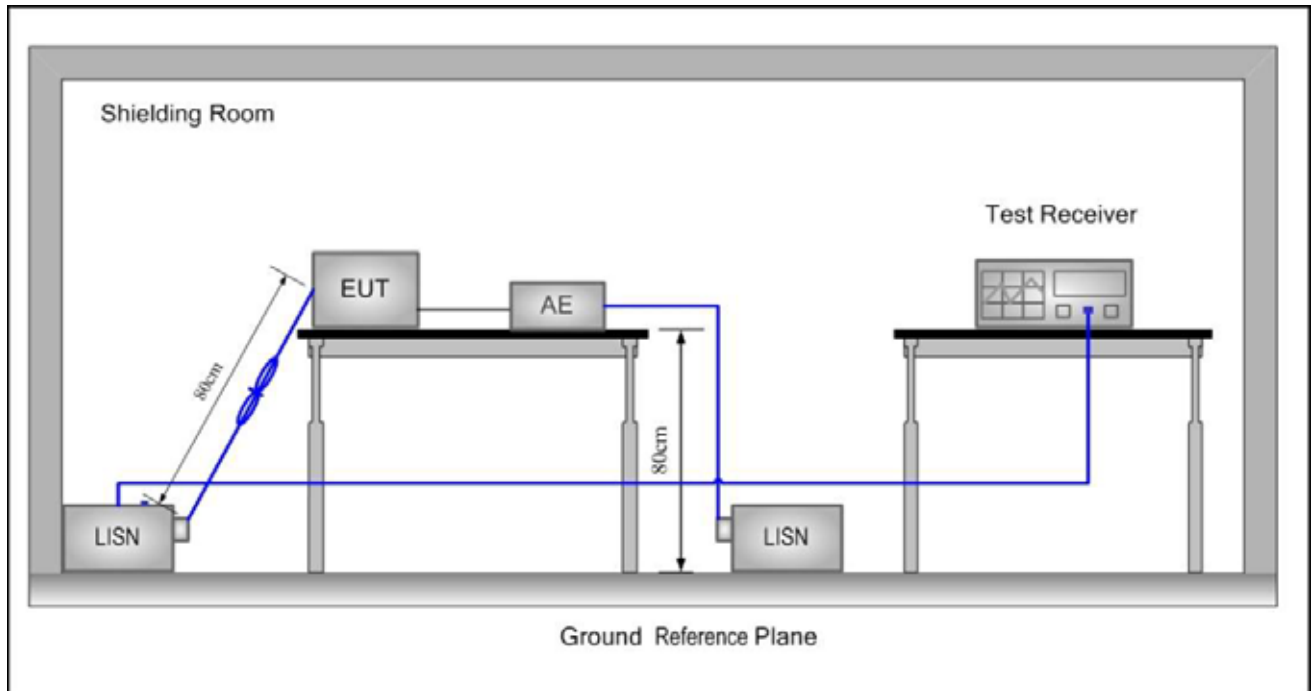
EUT Operation: Pre-test with Peak detector with the following modes:

- 1: PC connection mode(Synchronize data);
- 2: Charge mode;

Final test with Quasi-Peak and Avearge detector with the following mode(s):

- 1: PC connection mode(Synchronize data);
- 2: Charge mode

6.1.2 Test Setup and Procedure



1. The mains terminal conducted emission test was conducted in a shielded room.
2. The EUT was connected via the host computer to AC power source through a LISN (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. For Load terminal voltage measurement, a voltage probe was used on the load terminals. Measurement at control terminals were carried out by means of an impedance stabilization network (ISN). The ISN was bounded to ground.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. The EUT kept a distance of at least 0.8m from any other earthed conducting surface. The Artificial Mains Network was situated at a distance of 0.8m from the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

6.1.3 Measurement Data

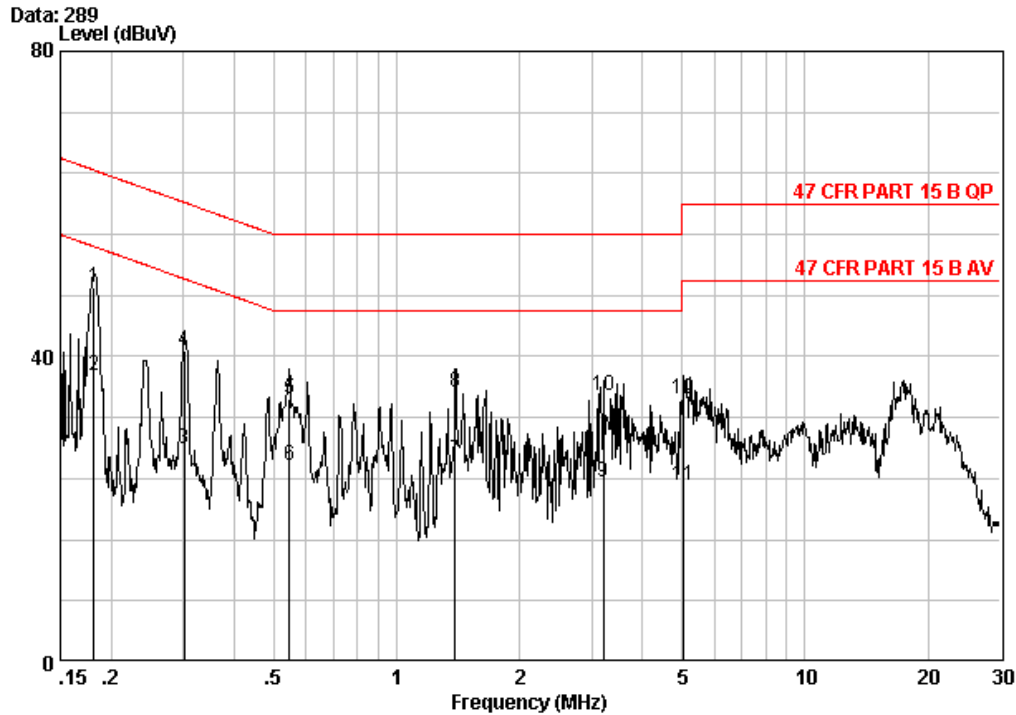
An initial pre-scan was performed on the live and neutral lines with peak detector.

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 **PC connection mode(Synchronize data)** :

Live line :

Peak Scan:



Quasi-peak and Average measurement:

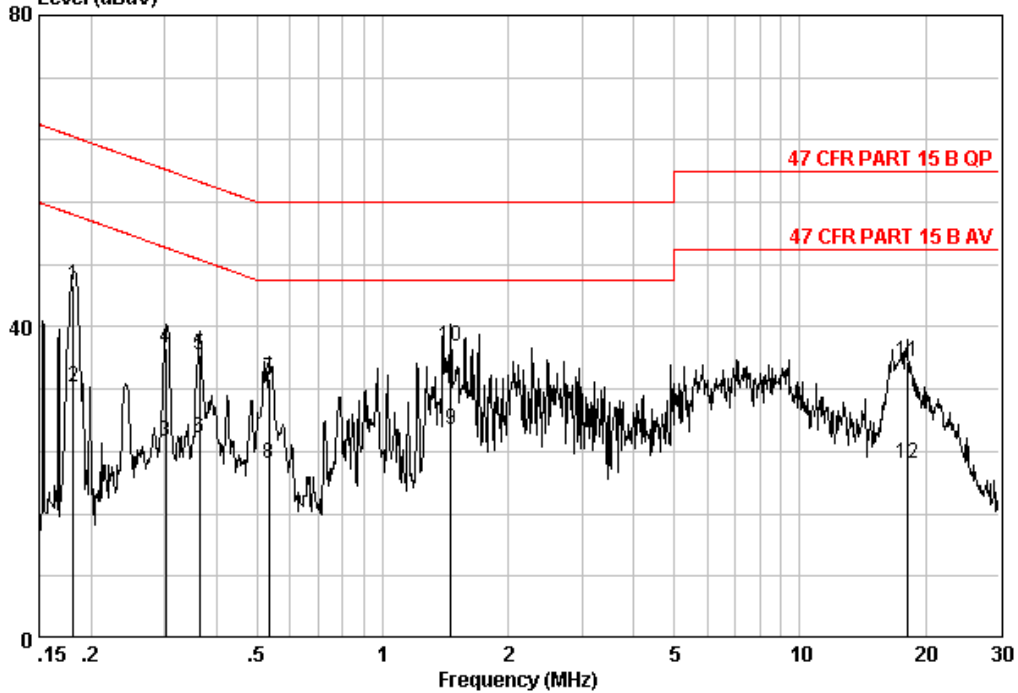
Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.18152	0.10	0.10	48.81	49.01	64.42	-15.41	QP
0.18152	0.10	0.10	37.20	37.40	54.42	-17.02	Average
0.30188	0.10	0.10	27.77	27.97	50.19	-22.22	Average
0.30188	0.10	0.10	40.57	40.77	60.19	-19.42	QP
0.54644	0.10	0.10	34.33	34.53	56.00	-21.47	QP
0.54644	0.10	0.10	25.58	25.78	46.00	-20.22	Average
1.388	0.10	0.10	26.23	26.43	46.00	-19.57	Average
1.388	0.10	0.10	35.17	35.37	56.00	-20.63	QP
3.207	0.10	0.10	23.43	23.63	46.00	-22.37	Average
3.207	0.10	0.10	34.72	34.92	56.00	-21.08	QP
5.058	0.10	0.10	22.98	23.18	50.00	-26.82	Average
5.058	0.10	0.10	34.28	34.48	60.00	-25.52	QP

Level = Read Level + LISN Factor + Cable Loss.

Neutral line :

Peak Scan:

Data: 290
Level (dBuV)



Quasi-peak and Average measurement:

Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.18152	0.10	0.11	45.16	45.37	64.42	-19.05	QP
0.18152	0.10	0.11	32.11	32.32	54.42	-22.10	Average
0.30188	0.10	0.02	25.14	25.27	50.19	-24.93	Average
0.30188	0.10	0.02	37.11	37.24	60.19	-22.95	QP
0.36338	0.10	0.00	36.33	36.43	58.65	-22.22	QP
0.36338	0.10	0.00	25.70	25.80	48.65	-22.85	Average
0.53215	0.10	0.04	33.18	33.32	56.00	-22.68	QP
0.53215	0.10	0.04	22.33	22.47	46.00	-23.53	Average
1.456	0.10	0.18	26.57	26.85	46.00	-19.15	Average
1.456	0.10	0.18	37.19	37.47	56.00	-18.53	QP
18.039	0.20	0.30	35.07	35.58	60.00	-24.42	QP
18.039	0.20	0.30	22.03	22.53	50.00	-27.47	Average

Level = Read Level + LISN Factor + Cable Loss.

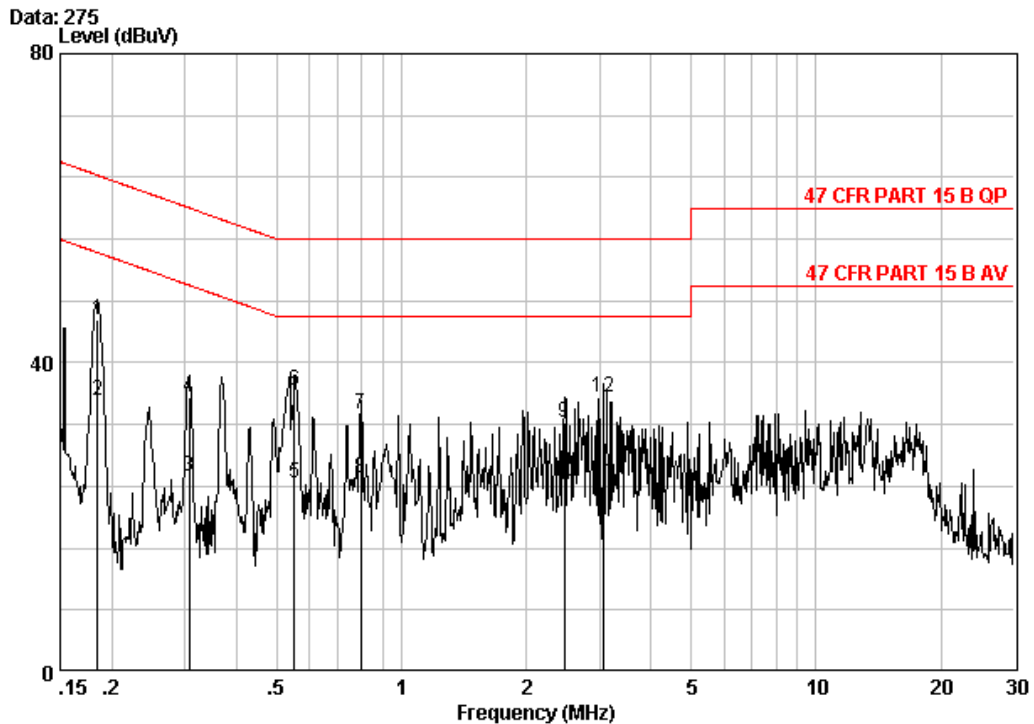
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The following Quasi-Peak and Average measurements were performed on **Charge mode** :

Live line :

Peak Scan:



Quasi-peak and Average measurement:

Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.18443	0.10	0.10	45.26	45.46	64.28	-18.82	QP
0.18443	0.10	0.00	34.90	35.00	54.28	-19.28	Average
0.30671	0.10	0.00	25.22	25.32	50.06	-24.74	Average
0.30671	0.10	0.10	35.37	35.57	60.06	-24.49	QP
0.55226	0.10	0.00	24.28	24.38	46.00	-21.62	Average
0.55226	0.10	0.10	36.22	36.42	56.00	-19.58	QP
0.79600	0.10	0.10	33.13	33.33	56.00	-22.67	QP
0.79600	0.10	0.00	25.06	25.16	46.00	-20.84	Average
2.474	0.10	0.10	32.06	32.26	56.00	-23.74	QP
2.474	0.10	0.00	24.45	24.55	46.00	-21.45	Average
3.074	0.10	0.00	24.24	24.34	46.00	-21.66	Average
3.074	0.10	0.10	35.35	35.55	56.00	-20.45	QP

Level = Read Level + LISN Factor + Cable Loss.

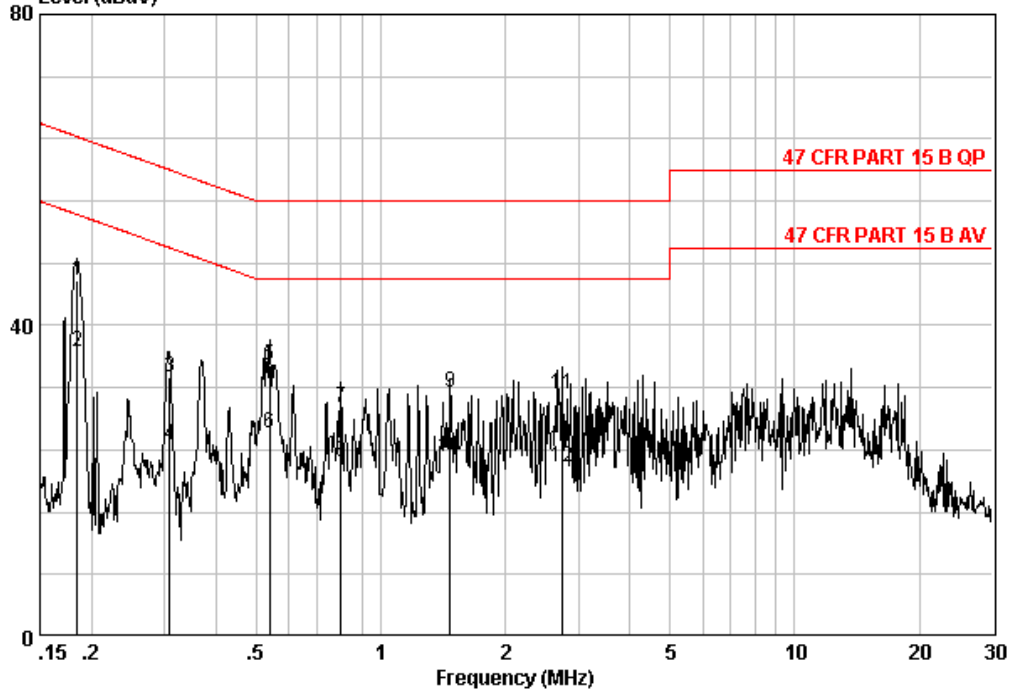
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Neutral line :

Peak Scan:

Data: 276
Level (dBuV)



Quasi-peak and Average measurement:

Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.18443	0.10	0.11	45.49	45.69	64.28	-18.59	QP
0.18443	0.10	0.11	36.42	36.62	54.28	-17.66	Average
0.30834	0.10	0.02	33.21	33.33	60.02	-26.68	QP
0.30834	0.10	0.02	24.50	24.62	50.02	-25.39	Average
0.53782	0.10	0.04	34.82	34.96	56.00	-21.04	QP
0.53782	0.10	0.04	25.99	26.13	46.00	-19.87	Average
0.80023	0.10	0.10	29.22	29.42	56.00	-26.58	QP
0.80023	0.10	0.10	22.22	22.42	46.00	-23.58	Average
1.472	0.10	0.18	31.07	31.35	56.00	-24.65	QP
1.472	0.10	0.18	22.88	23.16	46.00	-22.84	Average
2.736	0.10	0.20	30.89	31.19	56.00	-24.81	QP
2.736	0.10	0.20	21.57	21.87	46.00	-24.13	Average

Level = Read Level + LISN Factor + Cable Loss.

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6.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part15 B
 Test Method: ANSI C63.4:2009
 Test Voltage & frequency: 120V AC, 60Hz
 Test Date: November 22, 2012
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan (120kHz resolution bandwidth)
 Quasi-Peak if maximised peak within 20dB of limit
 Class: Class B

Frequency range MHz	Quasi-peak limits dB (µV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

Note: At transitional frequencies the lower limit applies.

6.2.1 EUT Operation

Operating Environment:

Temperature: 24°C

Humidity: 50%

Atmospheric Pressure: 1015mbar

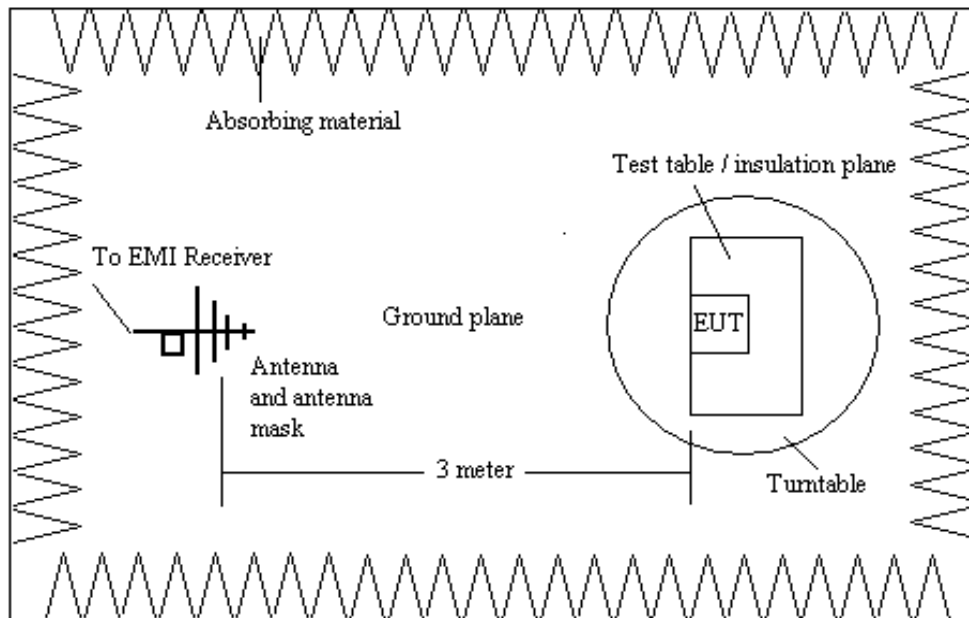
EUT Operation: Pre-test with Peak detector with the following modes:

- 1: PC connection mode(Synchronize data);
- 2: Charge mode;

Final test with Quasi-Peak detector with the following mode(s):

- 1: PC connection mode(Synchronize data);
- 2: Charge mode.

6.2.2 Test Setup and Procedure



1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
2. Bilog antenna was used for the frequency range from 30MHz to 1GHz
3. The EUT was connected to the host PC which was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 20dB of the class B limit line. Final measurement was conducted in the open area test site with data as follows:

Test results on PC connection mode(Synchronize data):

Frequency (MHz)	Antenna Polarization	Trans. (dB/m)	Receiver QP Reading (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)
70.740	V	9.28	11.04	20.32	40.00	-19.68
118.270	H	11.38	15.36	26.74	43.50	-16.76
118.270	V	11.38	14.61	25.99	43.50	-17.51
141.550	H	11.74	16.06	27.80	43.50	-15.70
141.550	V	11.74	15.14	26.88	43.50	-16.62
167.740	H	10.35	18.10	28.45	43.50	-15.05
215.270	H	9.96	20.42	30.38	43.50	-13.12
215.270	V	9.96	17.75	27.71	43.50	-15.79
261.830	V	12.89	16.37	29.26	46.00	-16.74
358.830	V	14.58	17.41	31.99	46.00	-14.01
382.110	H	15.91	14.23	30.14	46.00	-15.86
745.860	H	21.08	15.85	36.93	46.00	-9.07
<p>Note:</p> <p>1) All readings are Quasi-Peak values.</p> <p>2) Transducer = Antenna Factor + Cable Loss.</p>						

Test results on Charge mode:

Frequency (MHz)	Antenna Polarization	Trans. (dB/m)	Receiver QP Reading (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)
35.820	V	16.93	12.52	29.45	40.00	-10.55
47.460	V	12.79	13.51	26.30	40.00	-13.70
106.630	V	10.51	26.20	36.71	43.50	-6.79
106.630	H	10.51	17.46	27.97	43.50	-15.53
179.380	H	9.54	21.53	31.07	43.50	-12.43
180.000	V	9.50	32.00	41.50	43.50	-2.00
191.020	H	9.32	22.93	32.25	43.50	-11.25
238.550	V	11.40	27.55	38.95	46.00	-7.05
261.830	V	12.89	22.29	35.18	46.00	-10.82
261.830	H	12.89	25.85	38.74	46.00	-7.26
334.580	H	14.17	23.06	37.23	46.00	-8.77
431.580	H	17.75	14.80	32.55	46.00	-13.45

Note:

3) All readings are Quasi-Peak values.

4) Transducer = Antenna Factor + Cable Loss.

6.3 Radiated Emissions above 1 GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4:2009
Test Date: Not Applicable

Remark:

There is no need for Radiated Emissions (above 1G) test to be performed on this product in accordance with FCC Part 15 because the highest internal source is less than 108 MHz.

For further details, please refer to Subject B section 15.33 (b) (1)of FCC Part 15 which states:

The spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement Range (MHz)
Below 1.705	30
1.705 to 108	1000
108 to 500	2000
500 to 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

7 Photographs

7.1 Conducted Emission Test Setup



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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

7.2 Radiatd Emission below 1GHz Test Setup



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7.3 EUT Constructional Details







Application No. : 57509
Product : GPS Tracker
Model No. : MT90
Date : November 27, 2012

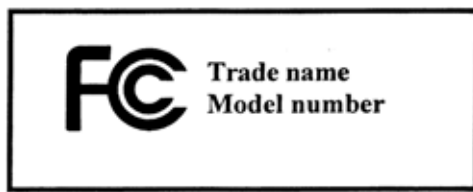
Appendix – Markings, User Instructions and Declaration of Conformity for Personal computer and computer peripheral

The product is classified as a Class B personal computers and peripherals for which the following markings, instructions and Declaration of Conformity are required:

(Note: The detail information may only refer to FCC standard)

1. Markings

The product shall be labelled with the following **FCC logo** together with the **trade name** and **model number**:



Note:

The label on the products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase. "Permanently affixed" means that the label is etched, engraved, stamped, silkscreened, 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.

2. User Manual and User Information:

2.1 INSTRUCTIONS

The following information shall be provided to the users:

- (a) Where special accessories, such as shielded cables and/or special connectors, are required to comply with the emission limits, the equipment must be marketed with, i.e., shipped and sold with, those special accessories. The instruction manual shall include appropriate instructions on the first page of the text describing the installation of the device.
- (b) *“CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the product.”*
- (c) *“NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*
 - *Reorient or relocate the receiving antenna.*
 - *Increase the separation between the equipment and receiver.*
 - *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
 - *Consult the dealer or an experienced radio/TV technician for help.”*

2.2 DECLARATION OF CONFORMITY

The product shall be supplied with a **compliance information statement** at the time of marketing or importation, containing the following information:

- (a) **Identification of the product:** Product name and model number;
- (b) **Compliance statement:**
“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.”
- (c) **US responsible party:** by name, addresses and telephone number, of the responsible party located within the United States.