FCC DoC
TEST REPORT

for

USB
Brand: MOGO
Model: MG103

Test Report Number: SZ080321B01-EF

Issued Date: March 21, 2008

Issued for

Newton Peripherals,LLC

11 Mercer Road,Natick,MA 01760,USA

Issued by:

Compliance Certification Services Inc.
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ACCREDITED No. 0824-01 ilac-MRA TAF Testing Laboratory 0363

Revision History

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	SZ080321B01-EF	Initial Issue	ALL	Clinton Kao

CCS Report Format Version 2.0

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1 TEST RESULT CERTIFICATION

Product:	USB
Model:	MG103
Brand:	MOGO
Applicant:	**Newton Peripherals,LLC** 11 Mercer Road,Natick,MA 01760,USA
Manufacturer:	**Newton Peripherals,LLC** 11 Mercer Road,Natick,MA 01760,USA
Tested Date:	March 15-21, 2008
Tested Voltage:	DC5V supplied by PC

EMISSION			
Standard	**Item**	**Result**	**Remarks**
FCC 47 CFR Part 15 Subpart B, ANSI C63.4-2003	Conducted (Main Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by: ***Reviewed by:***

Clinton Kao
Manger
Compliance Certification Service Inc.

Vincent Yao
Assistant manager
Compliance Certification Service Inc.

2 EUT DESCRIPTION

Product	USB
Brand Name	N/A
Model	MG103
Test Item	Product Sample
Applicant	Newton Peripherals,LLC
Housing material	Plastic w+Metal
EUT Type	☐ Engineering Sample, ☒ Product Sample, ☐ Mass Product Sample.
Serial Number	N/A
EUT Power Rating	I/P:AC120-230V 50/60Hz O/P: DC5V supplied by PC
DC Power Cable Type	Unshielded 1.50M

I/O PORT OF EUT

I/O PORT TYPE	Q'TY	TESTED WITH
USB	1	1

Difference between model numbers as below:

Model Name	Difference	Tested (Checked)
MG103	original	☒

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode		
Emission	Conducted Emission	**Mode 1:**PC
	Radiated Emission	**Mode 1:**PC

After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Conducted Emission	**Mode 1:**PC
	Radiated Emission	**Mode 1:**PC

Then, the EUT configuration and cable configuration of the above highest emission mode was chosen for all final test items.

3.2. EUT SYSTEM OPERATION

1. Set up EUT with auxiliary equipments.
2. Keep EUT working normally during the test.

.

4 SETUP OF EQUIPMENT UNDER TEST

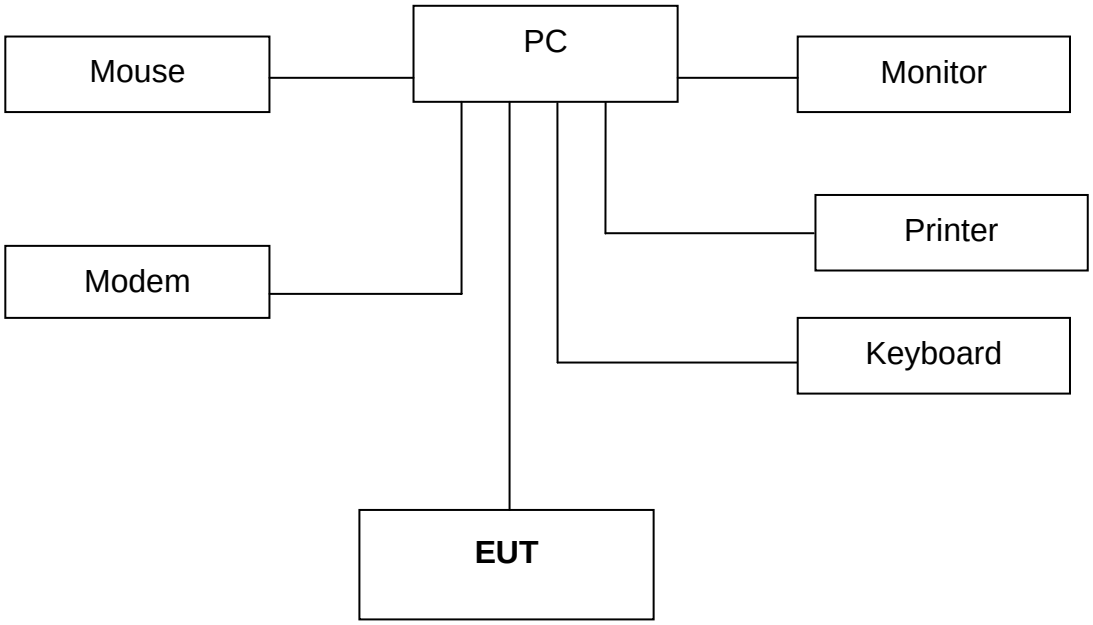
4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1.	PC	PC2	N/A	N/A	N/A	N/A	N/A
2.	Monitor	170X5	BZ000526110036	A3KM129	PHILIPS	Shielded 1.50m	N/A
3.	Printer	P320B	DQYK006399	N/A	EPSON STYLUS C60	Shielded 1.50m	N/A
4.	Keyboard	KB-3923	N/A	N/A	COMPAQ	Unshielded 1.50m	N/A
5.	Mouse	3D SWW-22	N/A	N/A	SHUANGFEIYAN	Unshielded 1.50m	N/A
6.	Modem	EDVM-CF56THCF	G9TTAI-25564-M5-E	N/A	WONDA	Shielded 1.50m	N/A

1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. ONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at **NO.81-1, LANE 210, BADE 2ND RD., LUJHU TOWNSHIIP TAOYUAN COUNTY, TAIWAN**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	**A2LA、FCC**
Germany	**TUV Rheinland**
Japan	**VCCI**
Canada	**INDUSTRY CANADA,**
Taiwan	**TAF, BSMI**

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsemc.com

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	+/- 1.13dB
Radiated emissions	30MHz ~ 200MHz	+/- 3.84dB
	200MHz ~1000MHz	+/- 3.82dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

(1) The lower limit shall apply at the transition frequencies.
(2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
(3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

Conducted Emission Test Site A (10m chamber)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESI26	100068	04/29/2008
EMC Analyzer	Agilent	E7402A	US41160329	02/05/2009
LISN	FCC	FCC-LISN-50-50-2-M	01067	N.C.R.
LISN (EUT)	FCC	FCC-LISN-50-50-2-M-H	01068	04/29/2008
FOUR BALANCED TELECOM PAIRS ISN	FCC	FCC-TLISN-T8-02	20165	04/12/2008
4-WIRE ISN	R&S	ENY41	830663/024	07/28/2008
Double 2-Wire ISN	R&S	ENY22	830661/027	07/28/2008
TRANSMIT LIMITER	SCHAFFNER	CFL9206	1710	04/12/2008
EMI Monitor control box	FCC	0-SVDC	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

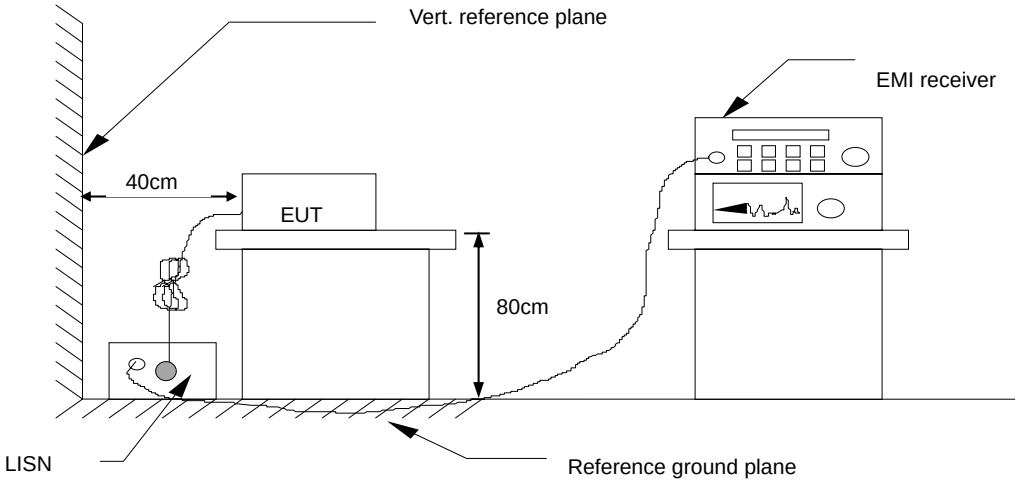
Procedure of Preliminary Test

- The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The EUT received DC5V power from the PC, and PC received AC120V/60Hz through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment power received from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.
- ***For details, please refer to measurement standard or CCS SOP PA-031***

6.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.5. Data Sample:

Freq. (KHz)	Peak Amptd (dBuV)	QP Amptd (dBuV)	Avg Amptd (dBuV)	Q.P. Limit (dBuV)	Average Limit (dBuV)	Margin (dB)	Factor (dB)
x.xx	38.84	32.88	33.26	56.00	46.00	-12.74	10.69

Remark:

1. The measuring frequencies range between 0.15 MHz and 30 MHz.

2. The emissions measured in the frequency range between 0.15 MHz and 30MHz were made with an instrument using Quasi-peak detector and Average detector.

3. "---" denotes the emission level was or more than 2dB below the Average limit, and no re-check was made.

4. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10KHz. The IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz.

Freq. = Emission frequency in KHz

Factor (dB) = cable loss + Insertion loss of LISN+ Insertion loss of TRANSIENT LIMITER (The TRANSIENT LIMITER included 10 dB ATTENUATION)
Amptd dBuV = Uncorrected Analyzer/Receiver reading + cable loss + Insertion loss of LISN+ Insertion loss of TRANSIENT LIMITER, if it > 0.5 dB
Limit dBuV = Limit stated in standard
Margin dB = Reading in reference to limit
Q.P.: =Quasi-Peak

Calculation Formula

Margin (dB) = Amptd (dBuV) – Limit (dBuV)

6.6. TEST RESULTS

Model No.	MG103	Test Mode	Mode 1
Environmental Conditions	25°C, 56% RH	6dB Bandwidth	10 KHz
Tested by	Nico Shang		

(The chart below shows the highest readings taken from the final data.)

FREQ MHz	PEAK RAW dBuV	Q.P. RAW dBuV	AVG RAW dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB	NOTE
0.162	49.23	---	---	65.63	55.63	---	-6.40	L1
0.429	42.41	---	---	58.02	48.02	---	-5.61	L1
0.501	41.67	---	---	56.00	46.00	---	-4.33	L1
0.669	36.98	---	---	56.00	46.00	---	-9.02	L1
1.454	32.93	---	---	56.00	46.00	---	-13.07	L1
15.119	41.81	---	---	60.00	50.00	---	-8.19	L1
0.170	49.57	---	---	65.42	55.42	---	-5.85	L2
0.246	47.88	---	---	63.25	53.25	---	-5.37	L2
0.285	49.29	---	---	62.14	52.14	---	-2.85	L2
0.442	42.38	---	---	57.65	47.65	---	-5.27	L2
0.705	37.33	---	---	56.00	46.00	---	-8.67	L2
15.175	41.32	---	---	60.00	50.00	---	-8.68	L2

NOTE: *1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).*
2. The emission level was or more than 2dB below the Average limit, so no re-check anymore.

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Maximum permissible level of Radiated Emission measured at 3 meter

FREQUENCY (MHz)	dBuV/m (At 3m)	
	Class A	Class B
30~88	39.00	40.00
88~216	43.50	43.50
216~960	46.00	46.00
960~1000	49.50	54.00

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

Maximum permissible level of Radiated Emission measured at 3 meter

Frequency (MHZ)	Class A (dBuV/m)		Class B (dBuV/m)	
	Average	Peak	Average	Peak
Above 1000	60	80	54	74

Notes: (1)The lower limit shall apply at the transition frequencies.

(2)Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3)All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

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

7.2. TEST INSTRUMENTS

Test Site A (10m chamber)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESI26	100068	04/29/2008
EMC Analyzer	Agilent	E7402A	US41160329	02/05/2009
Bilog Antenna	Sunol	JB1	A062604	11/18/2008
Pre-Amplifier	Anritsu	MH648A	M64192	12/22/2008
DECOUPLING NETWORK	FCC	F-201-DCN-5-6M M	23	05/15/2008
System Controller	Sunol	SC99V	121501-1	N/A
Turn Table	Sunol	FM3022HS	N/A	N/A
Antenna Mast	Sunol	TWR 99-4	121501-3	N/A
Site NSA	CCS Lab.	N/A	N/A	02/16/2009

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

3M Semi Anechoic Chamber (977)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	MY44020154	08/28/2008
Spectrum Analyzer	Agilent	E4446A	US44300398	01/20/2009
EMI Test Receiver	R&S	ESPI3	101026	04/29/2008
Pre-Amplfier	MINI	ZFL-1000VH2	d041703	12/13/2008
Pre-Amplfier	Miteq	NSP4000-NF	870731	01/28/2009
Bilog Antenna	Sunol	JB1	A110204-2	11/20/2008
Horn-antenna	SCHWARZBECK	BBHA9120D	D:266	05/09/2008
Turn Table	CT	CT123	4165	N.C.R
Antenna Tower	CT	CTERG23	3256	N.C.R
Controller	CT	CT1OO	95637	N.C.R
Site NSA	CCS	N/A	N/A	04/06/2008

NOTE: 1.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The FCC Site Registration number is 93105,90471.

3. N.C.R = No Calibration Required.

7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received DC5V power from the PC, and PC received AC120V/60Hz through the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.
- The antenna was placed at 3/10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT and worse cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

When measuring emissions above 1GHz, the frequencies of maximum emission shall be determined by manually positioning the antenna close to the EUT and by moving the antenna over all sides of the EUT while observing a spectral display. It will be advantageous to have prior knowledge of the frequencies of emissions above 1GHz.If the EUT is a device with dimensions approximately equal to that of the measurement antenna beam width, the measurement antenna shall be aligned with the EUT.

Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

For the measurement above 1GHz, use the cable, EUT arrangement, and mode of operation determined in the exploratory testing to produce the emission that has the highest amplitude relative to the limit.

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the antenna in the “cone of radiation” from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.

The antenna may have to be higher or lower than the EUT, depending on the EUT’s size and mounting height, but the antenna should be restricted to a range of height of from 1m to 4m above the ground or reference ground plane.

If the transmission line for the measurement antenna restricts its range of height and polarization, the steps needed to ensure the correct measurement of the maximum emissions, shall be described in detail in the report of the measurements.

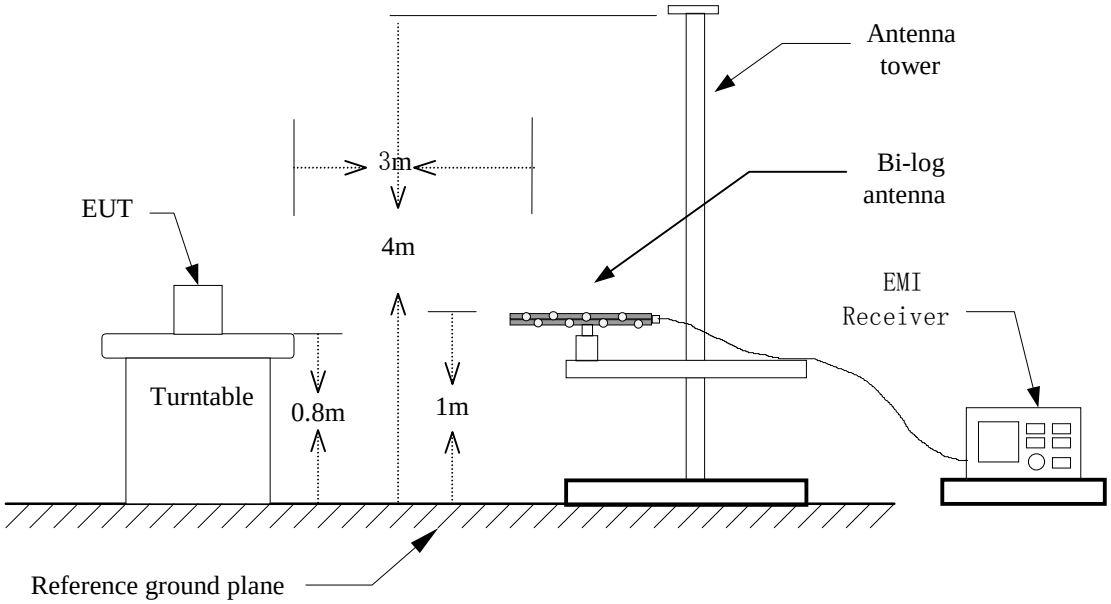
1) using the procedures above to measure with peak detector function, if the result comply with the average limit specified by the appropriate regulation, record the EUT arrangement, mode of operation, and cable positions used for final radiated emission measurement , this can be done with either diagrams or photographs.

2) Set the detector function of the measuring instrument to average mode, using the procedures above and remeasure only those emissions that complied with the peak limits but exceeded the average limits.

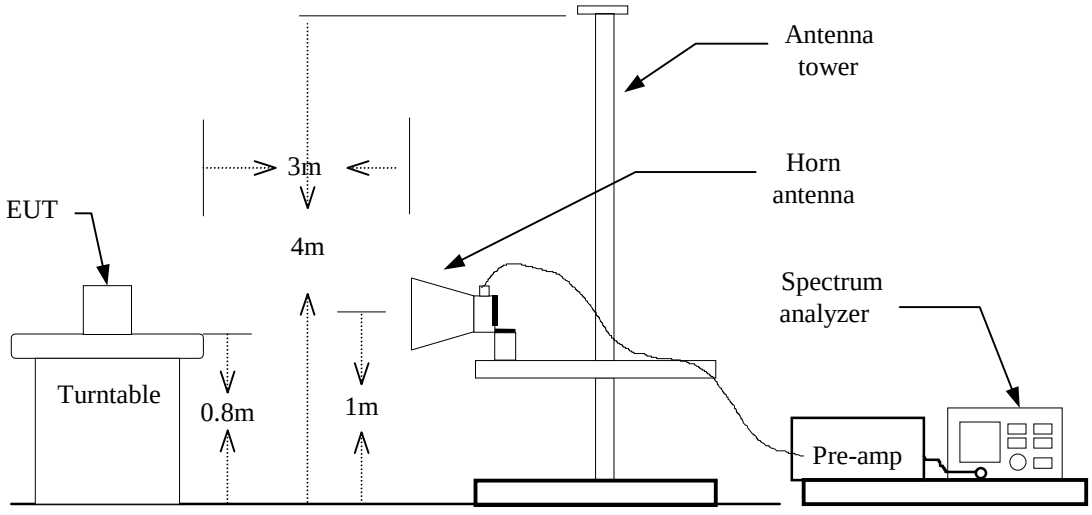
Recorded at least the six highest emissions.

7.4. TEST SETUP

Below 1 GHz



Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.5. Data Sample:

Below 1 GHz

Freq. (MHz)	Pk (dBuV/m)	Q.P. (dBuV/m)	Pk Margin (dB)	Q.P. Margin (dB)	Limit (dBuV/m)	Read (dBuV)	C.F (dB)	Height	Deg	Remark
xx.xx	30.20	---	-7.30	---	43.50	26.00	10.20	100	0	

Freq. = Emission frequency in MHz
Read =Uncorrected Analyzer / Receiver Reading
Corr. Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Emiss. Level (dBuV/m) = Raw reading converted to dBuV/m and C.F added
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Reading in reference to limit
Pk = Peak Reading
Q.P. = Quasi-peak Reading

Calculation Formula

Margin (dB) = Emiss. Level (dBuV/m) – Limits (dBuV/m)

Emission Level (dBuV/m) = Raw Data (dBuV) + Corr. Factor (dB)

Above 1 GHz

Freq. (MHz)	Pk (dBuV/m)	AV (dBuV/m)	Pk Margin (dB)	AV Margin (dB)	Limit (dBuV/m)	Read (dBuV)	C.F (dB)	Height	Deg	Remark
xx.xx	31.03	---	-22.97	---	54.00	34.63	-3.60	100	0	

Freq. = Emission frequency in MHz
Read =Uncorrected Analyzer / Receiver Reading
Corr. Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Emiss. Level (dBuV/m) = Raw reading converted to dBuV/m and C.F added
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Reading in reference to limit
Pk = Peak Reading
AV. = Average Reading

Calculation Formula

Margin (dB) = Emiss. Level (dBuV/m) – Limits (dBuV/m)
Emission Level (dBuV/m) = Raw Data (dBuV) + Corr. Factor (dB)

7.6. TEST RESULTS

Model No.	MG103	Test Mode	Mode 1
Environmental Conditions	25°C, 56% RH	6dB Bandwidth	120 KHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Detector Function	Peak / Quasi-peak	Tested by	Nico Shang

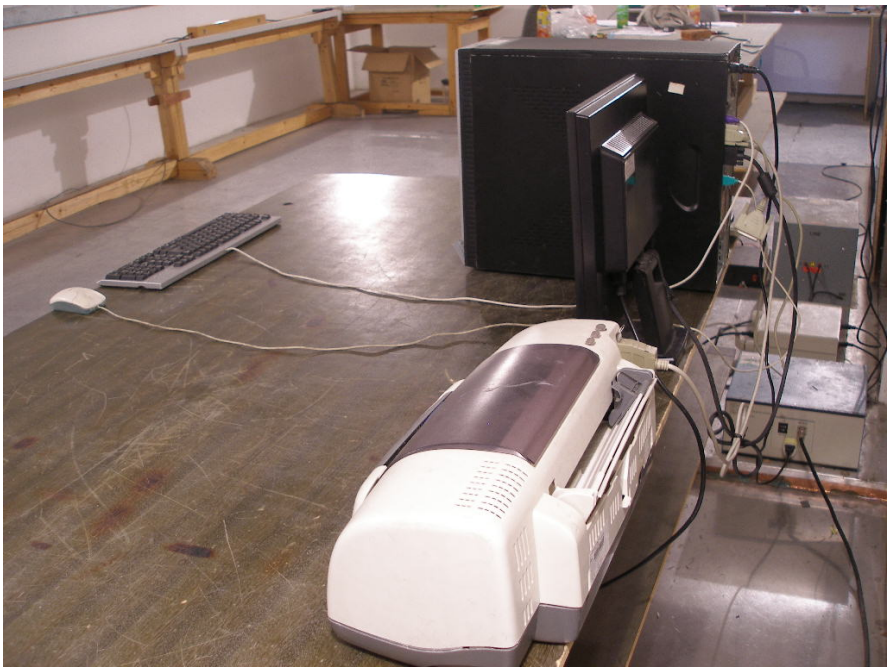
(The chart below shows the highest readings taken from the final data)

Frequency Range Investigated (30 MHz TO 1000 MHz)							
Freq. (MHz)	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Safe Margins (dBuV/m)	Ant. H/V	Mark
45.520	16.27	11.13	27.40	40.00	-12.60	V	P
65.890	15.19	11.45	26.64	40.00	-13.36	V	P
80.440	14.63	12.96	27.59	40.00	-12.41	V	P
139.610	9.03	16.12	25.15	43.50	-18.35	V	P
232.730	10.41	16.67	27.08	46.00	-18.92	V	P
385.990	8.20	17.06	25.26	46.00	-20.74	V	P
239.520	16.34	14.57	30.91	46.00	-15.09	H	P
334.580	13.37	17.70	31.07	46.00	-14.93	H	P
376.590	11.76	18.52	30.28	46.00	-15.72	H	P
400.540	12.59	20.43	33.02	46.00	-12.98	H	P
536.340	8.52	23.60	32.12	46.00	-13.88	H	P
671.170	6.85	25.34	32.19	46.00	-13.81	H	P

REMARKS: *1. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading.*
2. The other emission levels were very low against the limit.

8 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST

9 APPENDIX I – PHOTOGRAPHS OF EUT

10 APPENDIX II –PRE-TEST DATA OF EUT

COMPLIANCE Certification Services (Shenzhen)
Tel: 86-755-28055000
Fax: 86-755-28055221

Customer Name: Newton Peripherals,LLC
Project No.: SZ080321B01
Model Name: MG103
Engineer Name: Nico
Test Mode: PC

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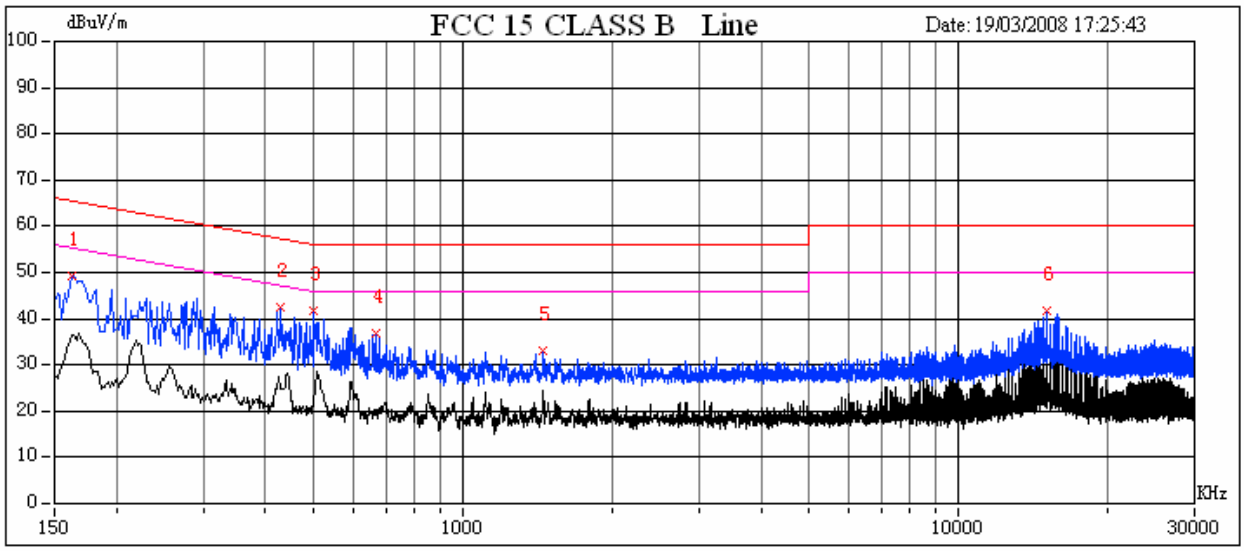

	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	QP Margin(dB)	Avg Margin(dB)	Factor(dB)
1	162.9500	49.23			65.63	55.63	-16.40	-6.40	12.43
2	429.3500	42.41			58.02	48.02	-15.61	-5.61	10.63
3	501.5000	41.67			56.00	46.00	-14.33	-4.33	10.45
4	669.8500	36.98			56.00	46.00	-19.02	-9.02	10.36
5	1454.2500	32.93			56.00	46.00	-23.07	-13.07	10.36
6	15119.1400	41.81			60.00	50.00	-18.19	-8.19	12.09

COMPLIANCE Certification Services (Shenzhen)
Tel: 86-755-28055000
Fax: 86-755-28055221

Customer Name: Newton Peripherals,LLC
Project No.: SZ080321B01
Model Name: MG103
Engineer Name: Nico
Test Mode: PC

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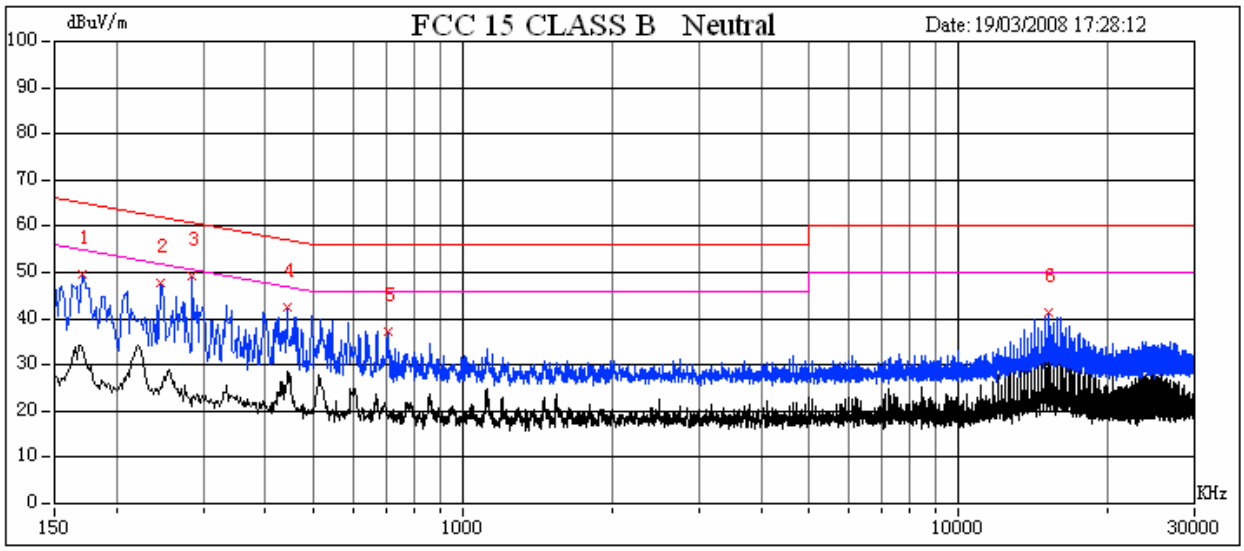

	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	QP Margin(dB)	Avg Margin(dB)	Factor(dB)
1	170.3500	49.57			65.42	55.42	-15.85	-5.85	12.22
2	246.2000	47.88			63.25	53.25	-15.37	-5.37	11.33
3	285.0500	49.29			62.14	52.14	-12.86	-2.86	10.88
4	442.3000	42.38			57.65	47.65	-15.26	-5.26	10.25
5	705.0000	37.33			56.00	46.00	-18.67	-8.67	10.39
6	15175.1470	41.32			60.00	50.00	-18.68	-8.68	12.09

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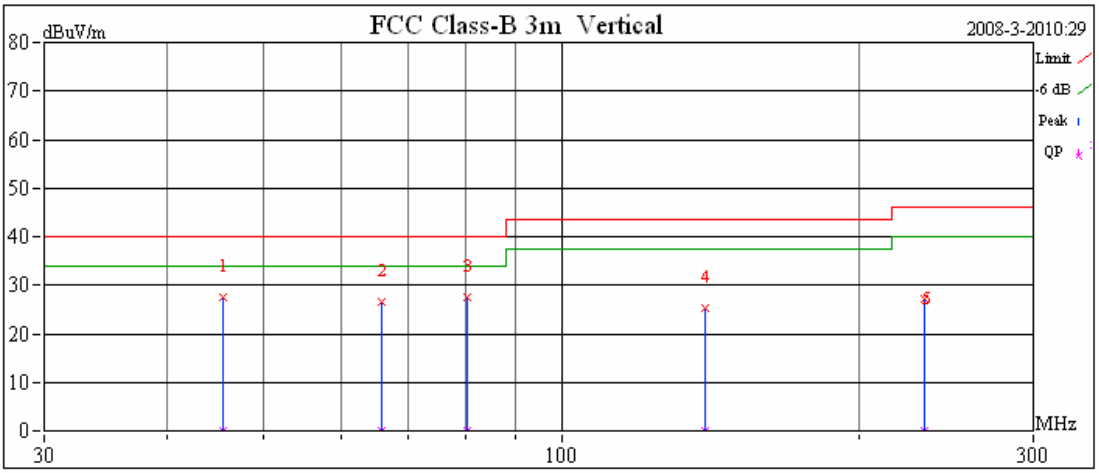

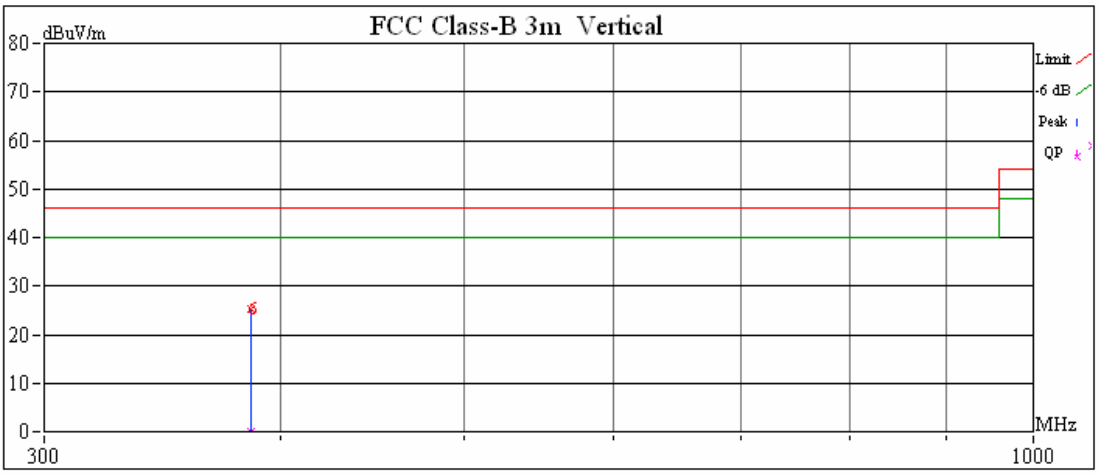

	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	45.5200	27.40		-12.60	40.00	16.27	11.13	0	0	
2	65.8900	26.64		-13.36	40.00	15.19	11.45	0	0	
3	80.4400	27.59		-12.41	40.00	14.63	12.96	0	0	
4	139.6100	25.15		-18.35	43.50	9.03	16.12	0	0	
5	232.7300	27.08		-18.92	46.00	10.41	16.67	0	0	
6	385.9900	25.26		-20.74	46.00	8.20	17.06	0	0	

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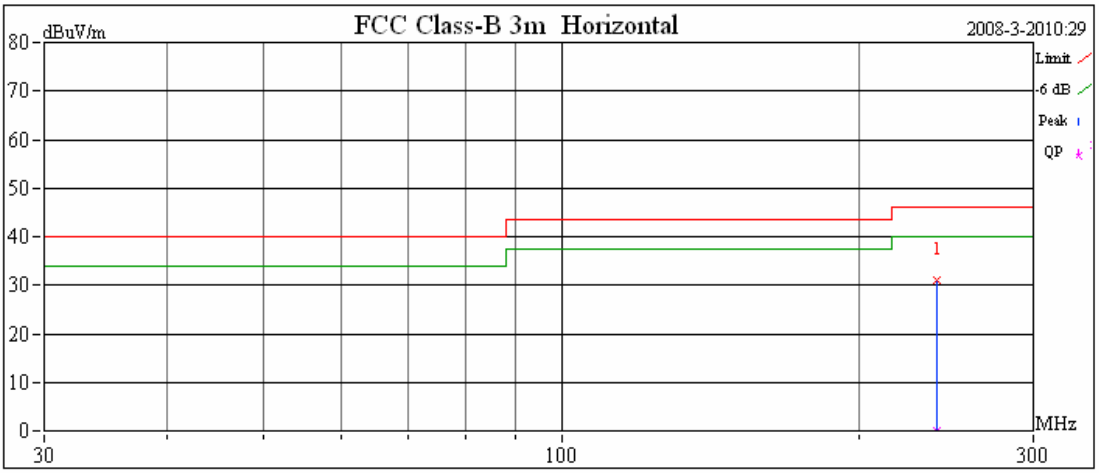

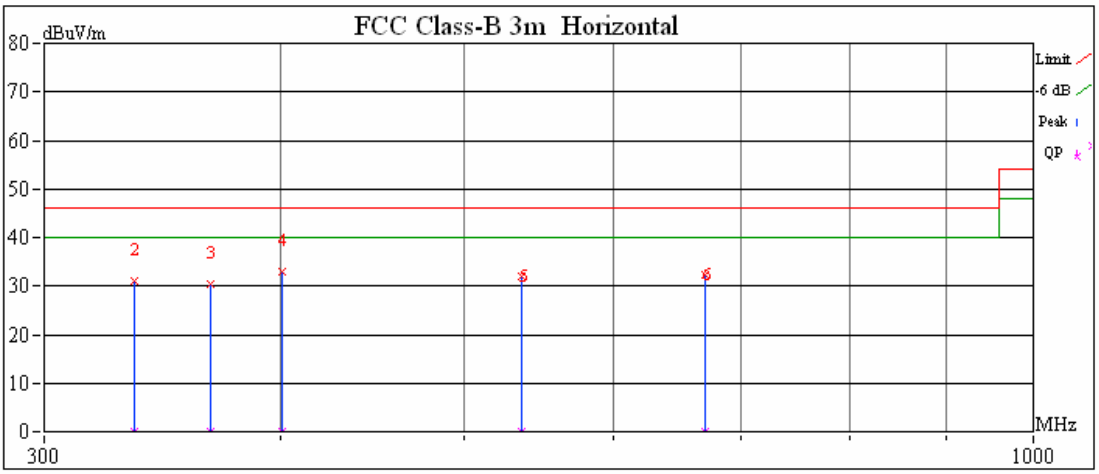

	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	239.5200	30.91		-15.09	46.00	16.34	14.57	0	0	
2	334.5800	31.07		-14.93	46.00	13.37	17.70	0	0	
3	367.5900	30.28		-15.72	46.00	11.76	18.52	0	0	
4	400.5400	33.02		-12.98	46.00	12.59	20.43	0	0	
5	536.3400	32.12		-13.88	46.00	8.52	23.60	0	0	
6	671.1700	32.19		-13.81	46.00	6.85	25.34	0	0	