

# FCC Test Report

**Issued Date** : Mar. 26, 2008  
**Project No.** : E0803041  
**Equipment** : PC System  
**Model Name** : ATIGO A1000

**Applicant** : VIA Technologies, Inc.  
**Address** : 8F, 533, Chung-Cheng Road Hsin-Tien,  
Taipei 231, Taiwan

**Tested by:**  
Neutron Engineering Inc. EMC Laboratory  
**Date of Test:**  
Mar. 18, 2008 ~ Mar. 21, 2008

**Testing Engineer:** \_\_\_\_\_  
(Peter Li)

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**Declaration**

**Neutron** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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## **1. CERTIFICATION**

Equipment: PC System  
Brand Name: VIA  
Model Name: ATIGO A1000  
Applicant: VIA Technologies, Inc.  
Date of Test: Mar. 18, 2008 ~ Mar. 21, 2008  
Standards: FCC Part 15, Subpart B, Class B  
              CISPR 22: 1997+A1: 2000, Class B  
              ICES-003: 2004, Class B  
              ANSI C63.4-2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCE-1-E0803041) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15, Subpart B CISPR 22:1997+A1: 2000 ICES-003: 2004	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

**NOTE:**

- (1) " N/A" denotes test is not applicable in this Test Report.
- (2) According to FCC Part 15 Support B 15.32 (a)(1)(i), the EUT(CPU Board) should be tested under two conditions: Open case & Close case for Radiated test.  
And the test data can't be over 6dB against the limit under the Open case condition.

**2.1 TEST FACILITY**

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

**2.2 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95%**.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	H	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	H	2.66	

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	PC System			
Brand Name	VIA			
Model Name	ATIGO A1000			
OEM Brand/Model Name	N/A			
Model Difference	This model has four types that are based on similar electrical circuit except the difference of list below:			
	Type	USB Dongle	HDD Interface	USB Ports
	Type 1	Build-in	IDE	3
	Type 2	Build-in	SATA	3
	Type 3	None	IDE	4
Type 4	None	SATA	4	
	All the above types were tested, and the type 1 and type 2 were found to be the worst case during the pr-scanning test. These types of the worst case were used for final testing and collecting test data included in this report.			
Product Description	The EUT is a PC System. Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
Power Source	DC Voltage supplied from AC/DC Adapter.			
Power Rating	AC I/P 100-240V, 1.8A, 50/60Hz / DC O/P +12V, 5A			
Connecting I/O Port(s)	Please refer to the User's Manual			
Products Covered	AC/DC Adapter: Seasonic / SSA-0601S-1 I RAM: Apacer / 512MB SOD PC2-4300 CL4 USB Dongle: VT6656 WLAN module HDD (IDE): FUJITSU / MHT2080AT HDD (SATA): FUJITSU / MHW2080BH Mother Board: EPIA-PX REV: B CPU: VIA / C7 1.0GHz			
EUT Modification(s)	N/A			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

### 3.2 DESCRIPTION OF TEST MODES

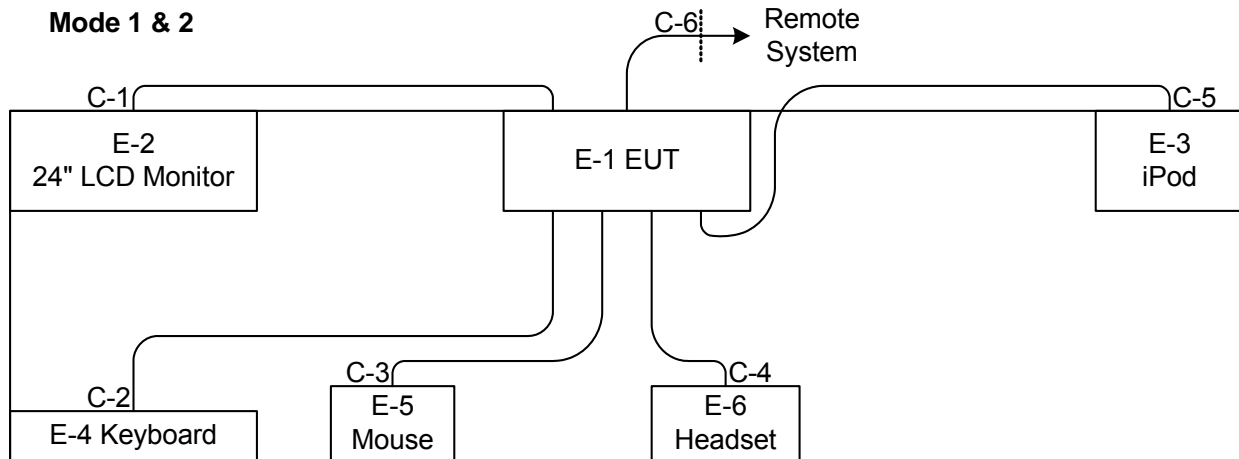
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)
Mode 2	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)
Mode 3	Full System D-SUB 1920*1080/60Hz (SATA)
Mode 4	Full System D-SUB 1920*1080/60Hz (IDE)

For Conducted Test	
Final Test Mode	Description
Mode 1	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)
Mode 2	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)

For Radiated Test	
Final Test Mode	Description
Mode 1	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)
Mode 2	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)

### 3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



- C-1 D-USB Cable
- C-2 USB Cable
- C-3 USB Cable
- C-4 Audio Cable x2
- C-5 USB Cable
- C-6 RJ-45 Cable

**3.4 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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	PC System	VIA	ATIGO A1000	DOC	N/A	EUT
E-2	24" LCD Monitor	BenQ	Q24W5	DOC	ETH7713671SLO T	
E-3	iPod nano	Apple	A1137	DOC	YM63604QUPR	
E-4	USB K/B	Logitech	Y-BL49	DOC	STW43302534	
E-5	USB Mouse	Dell	MO56UC	DOC	G0R000XN	
E-6	Headset	Ergotech	ETE221	N/A	4719405002095	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	YES	1.8M	
C-2	YES	NO	1.6M	
C-3	YES	NO	1.8M	
C-4	NO	NO	1.8M	
C-5	YES	NO	1.0M	
C-6	NO	NO	10.0M	

Note:

- (1) The support equipment was authorized by Declaration of Conformity.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

**4. EMC EMISSION TEST**

**4.1 CONDUCTED EMISSION MEASUREMENT**

**4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)**

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

**4.1.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Cable	N/A	C01	N/A	Oct. 10, 2008
2	Pulse Limiter	Electro-Metrics	EM-7600	112647	Oct. 10, 2008
3	50Ω Terminator	N/A	N/A	N/A	May 13, 2009
4	LISN	Rolf Heine	NNB-2/16Z	98053	Dec. 30, 2008
5	LISN	EMCO	3816/2	66528	Mar. 22, 2008
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 08, 2009

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

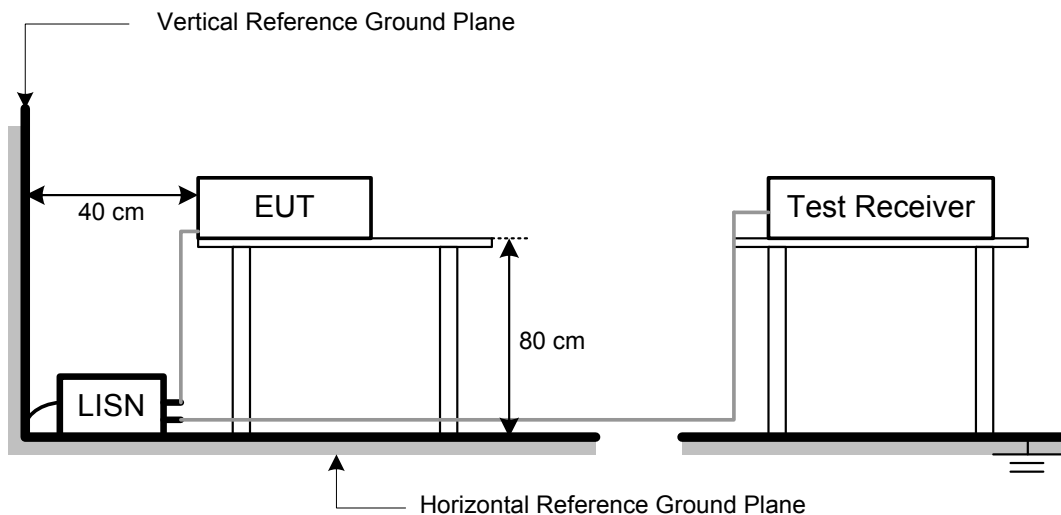
**4.1.3 TEST PROCEDURE**

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

**4.1.4 DEVIATION FROM TEST STANDARD**

No deviation

**4.1.5 TEST SETUP**



#### **4.1.6 EUT OPERATING CONDITIONS**

The EUT exercise program (EMC.exe) used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a PC hard disk and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

1. Read (write) from (to) mass storage device (iPod).
2. Send "H" pattern to video port device (Monitor).
3. EUT send audio to audio devices.
4. EUT send/receive data to/from remote system.
5. Repeated from 2 to 4 continuously.

As the keyboard and mouse are strictly input devices, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

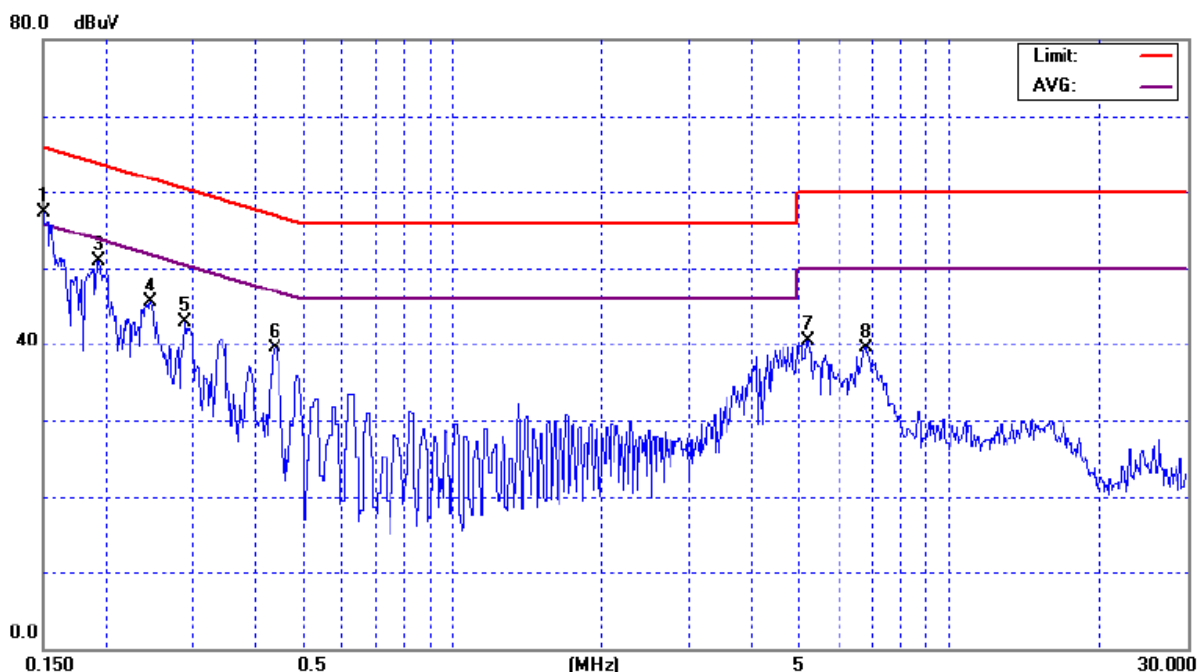
4.1.7 TEST RESULTS

E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	24 °C	Relative Humidity :	58%
Pressure :	1013 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	57.24	41.86	66.00	56.00	-8.76	(QP)
0.19	Line	50.82	*	63.89	53.89	-13.07	(QP)
0.25	Line	45.42	*	61.87	51.87	-16.45	(QP)
0.29	Line	42.90	*	60.52	50.52	-17.62	(QP)
0.44	Line	39.46	*	57.08	47.08	-17.62	(QP)
5.20	Line	40.59	*	60.00	50.00	-19.41	(QP)
6.80	Line	39.46	*	60.00	50.00	-20.54	(QP)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ◦ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz ◦
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ◦ In this case, a “ \* ” marked in AVG Mode column of Interference Voltage Measured ◦
- (3) Measuring frequency range from 150KHz to 30MHz ◦

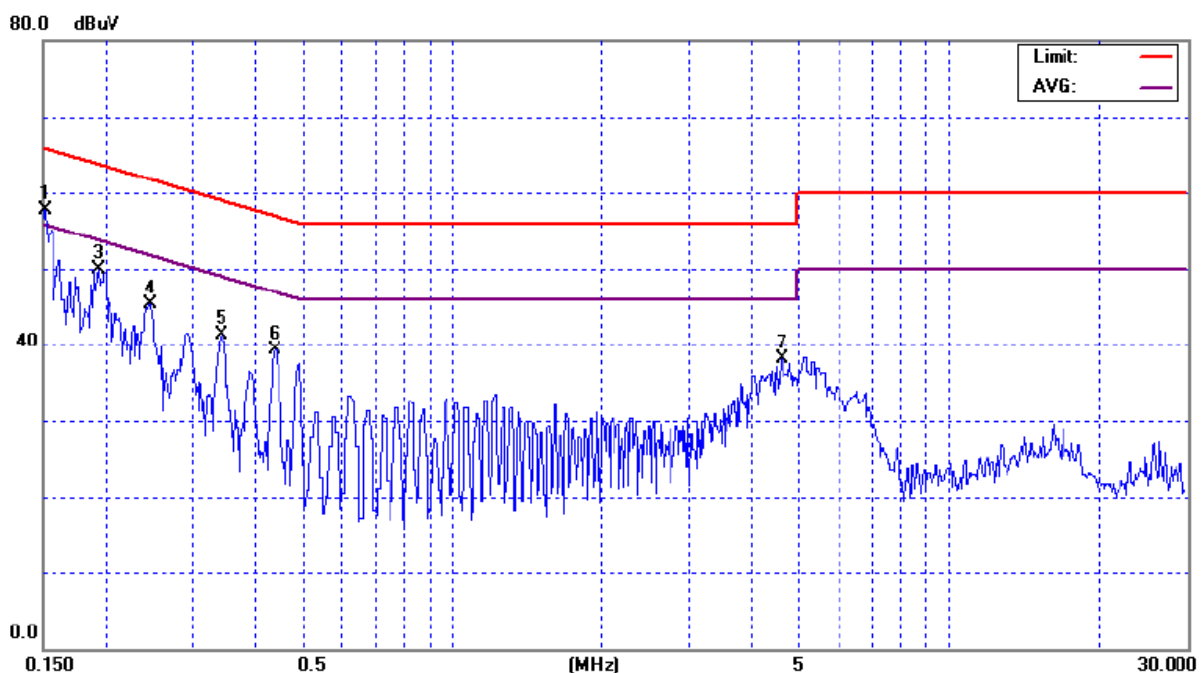


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	24 °C	Relative Humidity :	58%
Pressure :	1013 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Neutral	57.66	42.25	65.92	55.92	-8.26	(QP)
0.19	Neutral	49.83	*	63.89	53.89	-14.06	(QP)
0.25	Neutral	45.34	*	61.89	51.89	-16.55	(QP)
0.34	Neutral	41.29	*	59.14	49.14	-17.85	(QP)
0.44	Neutral	39.31	*	57.08	47.08	-17.77	(QP)
4.60	Neutral	38.11	*	56.00	46.00	-17.89	(QP)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ◦ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz ◦
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ◦ In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured ◦
- (3) Measuring frequency range from 150KHz to 30MHz ◦

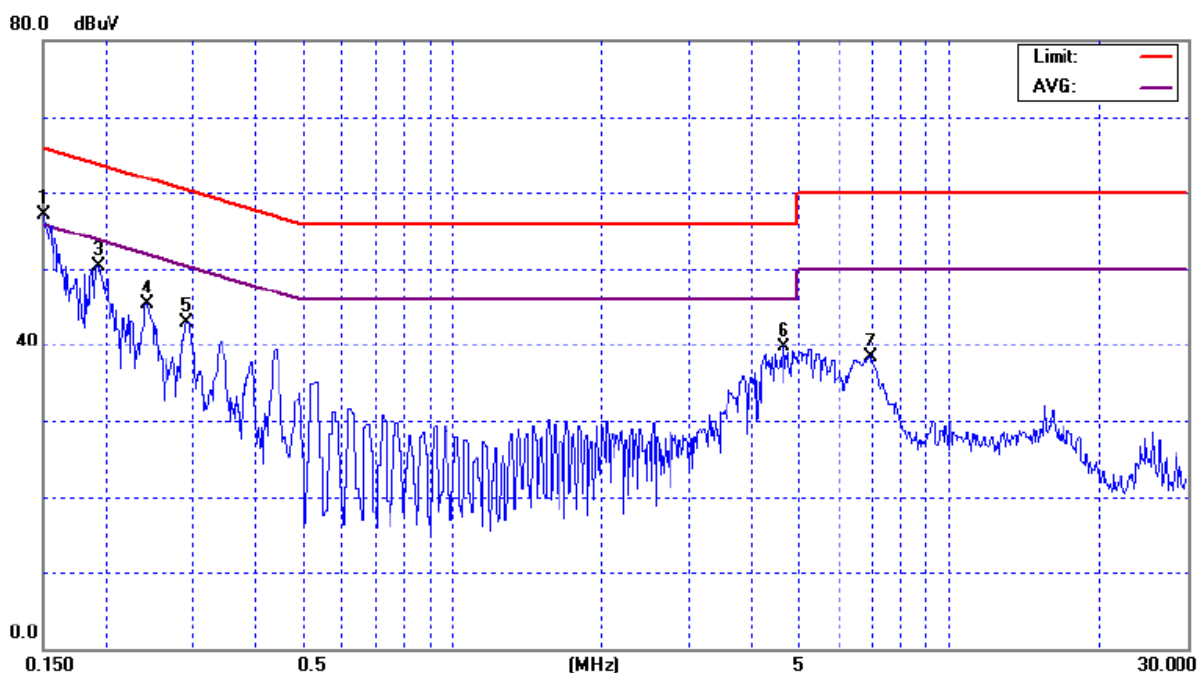


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	24 °C	Relative Humidity :	58%
Pressure :	1013 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	57.01	41.66	66.00	56.00	-8.99	(QP)
0.19	Line	50.32	*	63.92	53.92	-13.60	(QP)
0.24	Line	45.25	*	62.04	52.04	-16.79	(QP)
0.29	Line	42.93	*	60.46	50.46	-17.53	(QP)
4.63	Line	39.75	*	56.00	46.00	-16.25	(QP)
6.95	Line	38.24	*	60.00	50.00	-21.76	(QP)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ◦ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz ◦
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ◦ In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured ◦
- (3) Measuring frequency range from 150KHz to 30MHz ◦

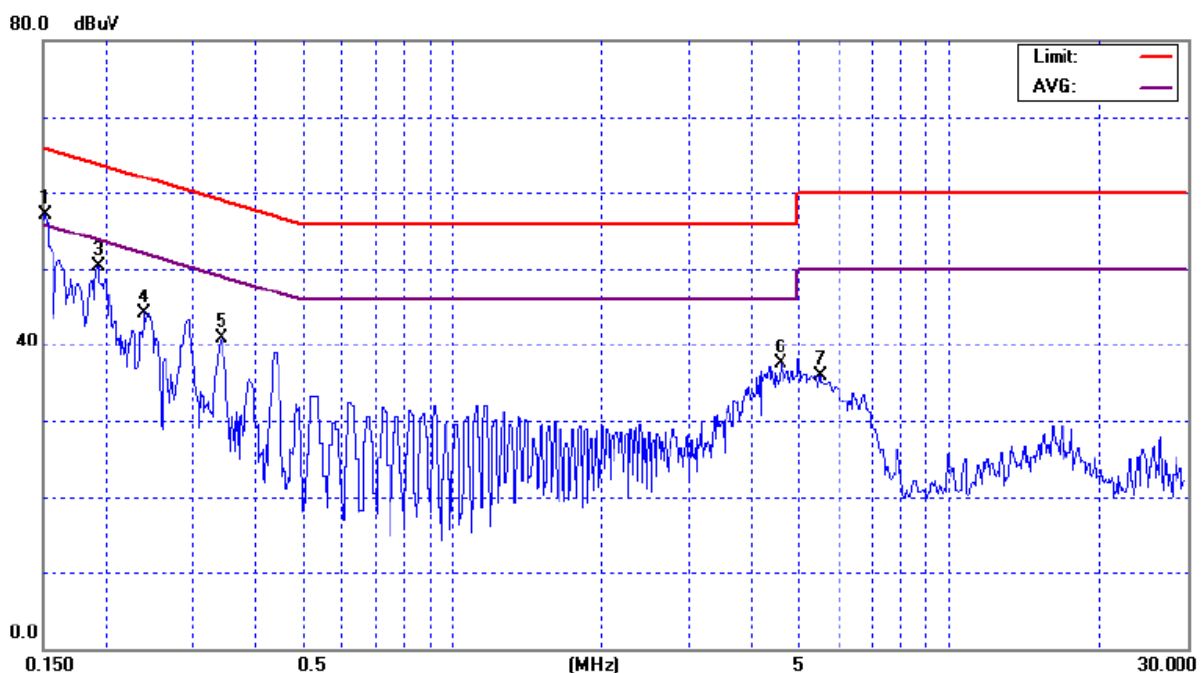


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	24 °C	Relative Humidity :	58%
Pressure :	1013 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Neutral	57.06	41.25	65.92	55.92	-8.86	(QP)
0.19	Neutral	50.32	*	63.92	53.92	-13.60	(QP)
0.24	Neutral	44.20	*	62.09	52.09	-17.89	(QP)
0.34	Neutral	40.81	*	59.14	49.14	-18.33	(QP)
4.60	Neutral	37.58	*	56.00	46.00	-18.42	(QP)
5.50	Neutral	35.96	*	60.00	50.00	-24.04	(QP)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ◦ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz ◦
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ◦ In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured ◦
- (3) Measuring frequency range from 150KHz to 30MHz ◦



**4.2 RADIATED EMISSION MEASUREMENT**

**4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (BELOW 1000MHZ)**

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 – 230	40	30
230 – 1000	47	37

Notes:

- (1) The limit for radiated test was performed according to as following:  
CISPR 22/ FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

**LIMITS OF RADIATED EMISSION MEASUREMENT (ABOVE 1000MHZ)**

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

**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)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

**4.2.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3173	Apr. 25, 2008
2	Test Cable	N/A	10M_OS02	N/A	Oct. 10, 2008
3	Test Cable	N/A	OS02	N/A	Oct. 10, 2008
4	Pre-Amplifier	Anritsu	MH648A(OS02)	M10061	Oct. 10, 2008
5	EMI Test Receiver	R&S	ESCI	100082	Mar. 08, 2009
6	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A

Remark: " N/A" denotes No Model Name / Serial No. and No Calibration specified.

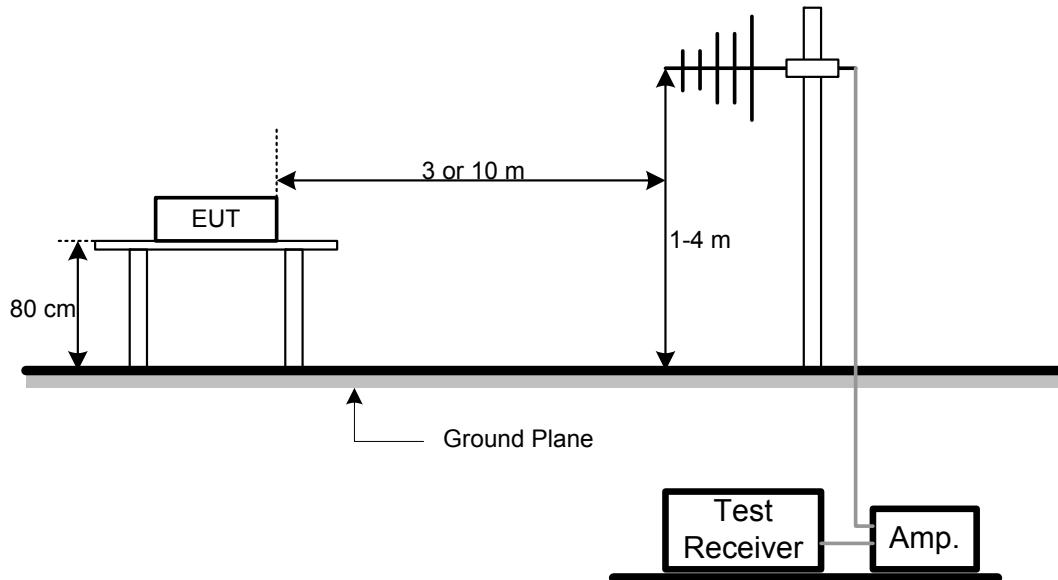
**4.2.3 TEST PROCEDURE**

- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

**4.2.4 DEVIATION FROM TEST STANDARD**

No deviation

#### 4.2.5 TEST SETUP



#### 4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

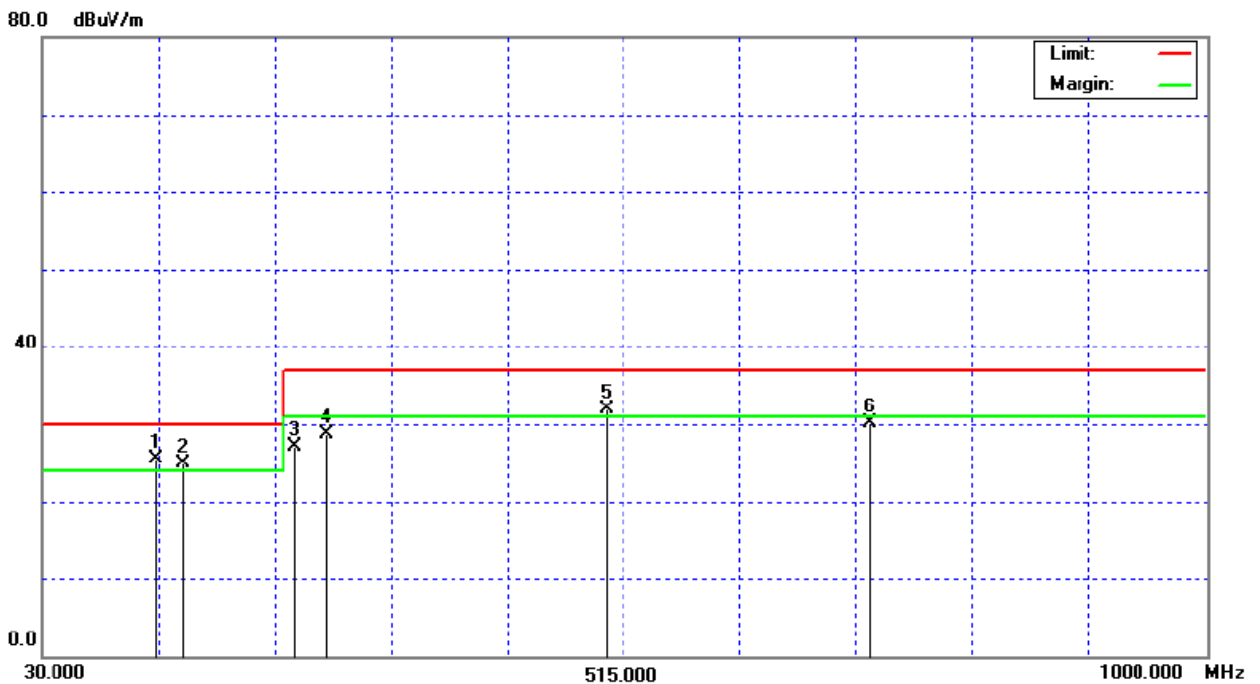
4.2.7 TEST RESULTS-BETWEEN 30MHZ AND 1000MHZ

E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	19 °C	Relative Humidity :	60%
Pressure :	1019 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
125.00	V	31.11	-5.60	25.51	30.00	- 4.49	
147.56	V	29.81	-4.95	24.86	30.00	- 5.14	
240.00	V	32.80	-5.73	27.07	37.00	- 9.93	(QP)
266.66	V	33.62	-5.01	28.61	37.00	- 8.39	
500.00	V	30.99	0.98	31.97	37.00	- 5.03	
720.01	V	24.14	5.90	30.04	37.00	- 6.96	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

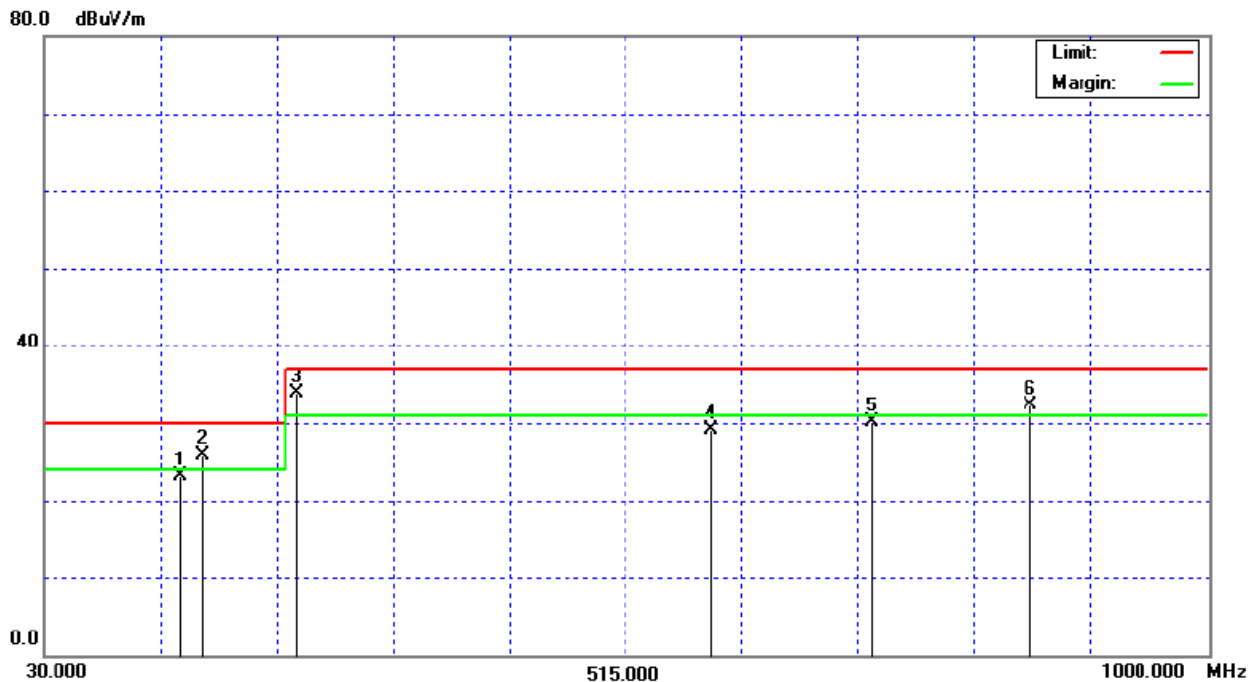


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	19° C	Relative Humidity :	60%
Pressure :	1019 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
144.34	H	28.11	-5.05	23.06	30.00	- 6.94	
161.27	H	30.25	-4.30	25.95	30.00	- 4.05	
240.01	H	39.63	-5.73	33.90	37.00	- 3.10	
585.24	H	26.02	3.03	29.05	37.00	- 7.95	
720.01	H	24.30	5.90	30.20	37.00	- 6.80	(QP)
851.79	H	23.99	8.24	32.23	37.00	- 4.77	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

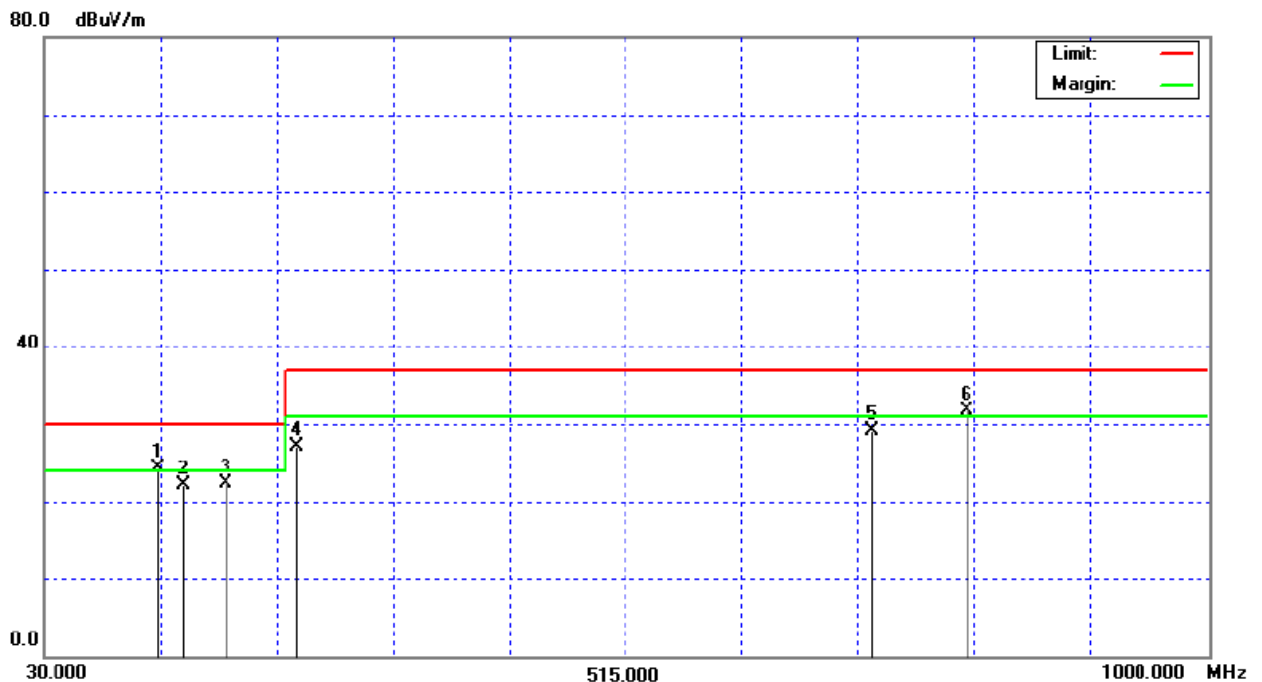


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	19 °C	Relative Humidity :	60%
Pressure :	1019 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
125.00	V	29.83	-5.60	24.23	30.00	- 5.77	
145.55	V	27.22	-5.02	22.20	30.00	- 7.80	
180.57	V	28.13	-5.74	22.39	30.00	- 7.61	
240.02	V	32.90	-5.73	27.17	37.00	- 9.83	(QP)
720.07	V	23.30	5.90	29.20	37.00	- 7.80	(QP)
800.04	V	24.31	7.37	31.68	37.00	- 5.32	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦

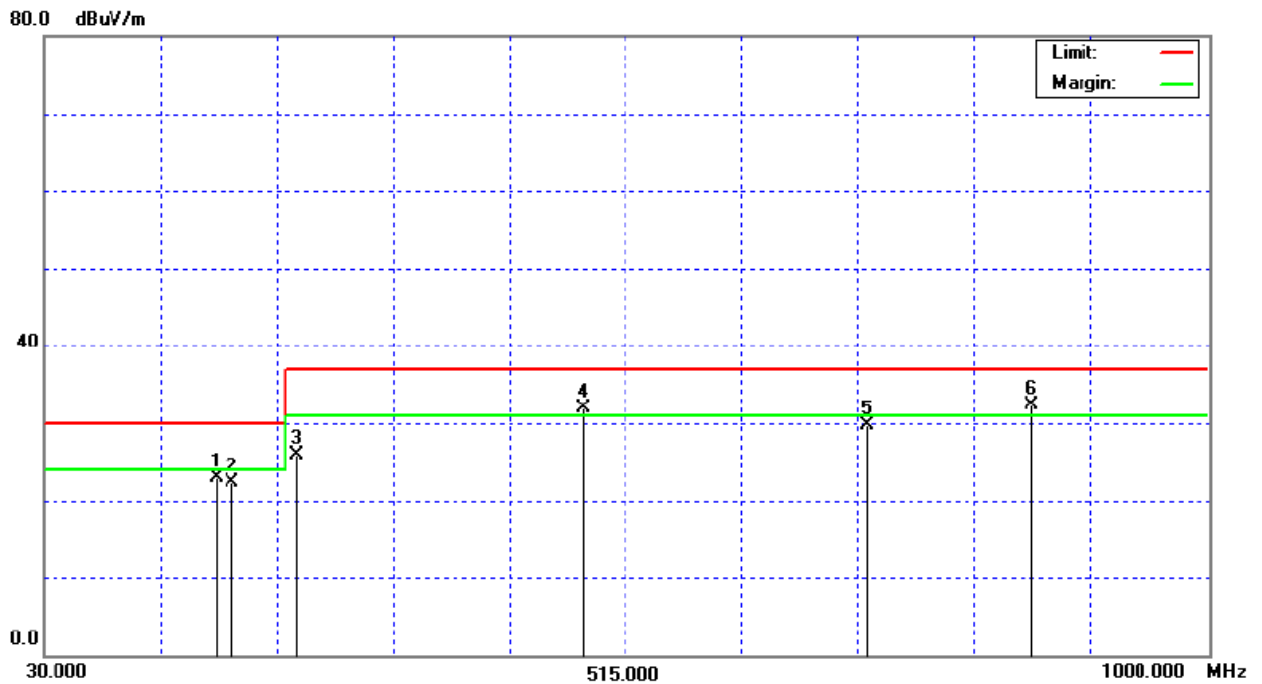


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	19 °C	Relative Humidity :	60%
Pressure :	1019 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
173.24	H	27.94	-4.99	22.95	30.00	- 7.05	
185.77	H	28.85	-6.53	22.32	30.00	- 7.68	
240.03	H	31.70	-5.73	25.97	37.00	- 11.03	(QP)
480.04	H	31.14	0.69	31.83	37.00	- 5.17	
715.16	H	23.94	5.76	29.70	37.00	- 7.30	
854.49	H	24.15	8.25	32.40	37.00	- 4.60	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦



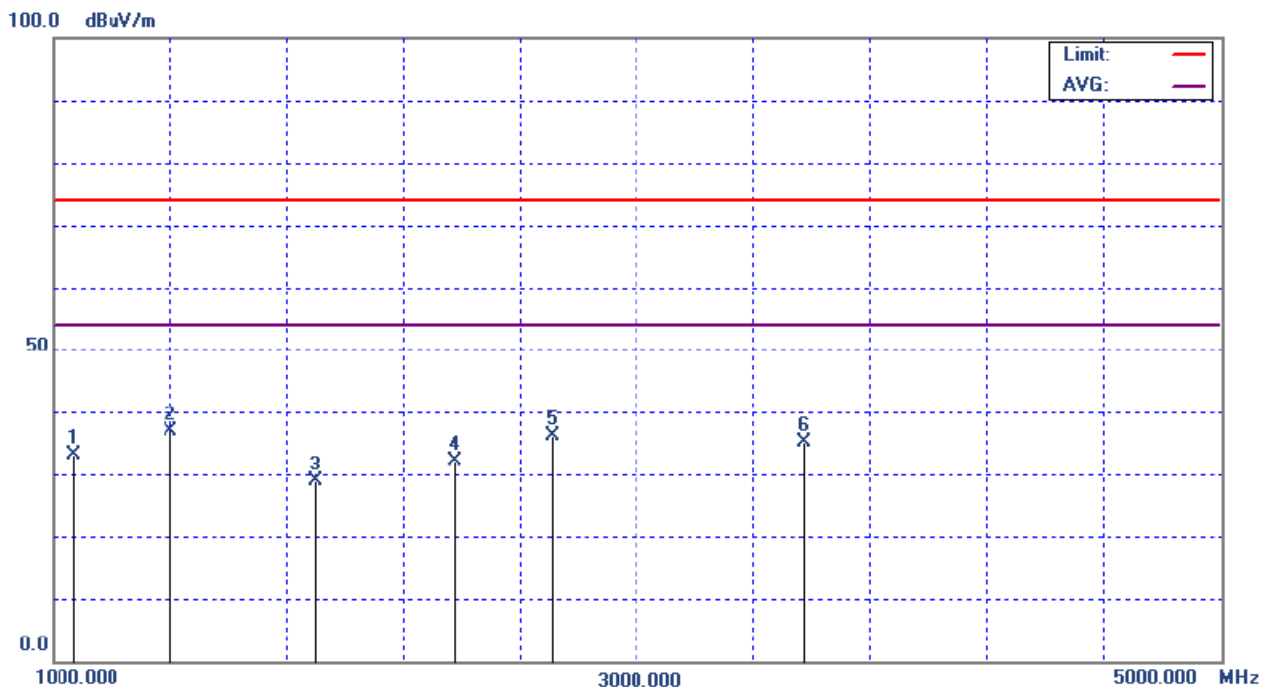
**4.2.8 TEST RESULTS-ABOVE 1000MHZ**

E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	19 °C	Relative Humidity :	60%
Pressure :	1019 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)		

Freq. (MHz)	Ant.Pol. (H/V)	Reading(dBuV)		Ant./CF CF(dB)	Act.(dBuV/m)		Limit(dBuV/m)		Note
		Peak	AV		Peak	AV	Peak	AV	
1067.90	V	41.37	-	-8.22	33.15	-	74.00	54.00	
1395.20	V	43.80	-	-6.84	36.96	-	74.00	54.00	
1890.20	V	34.25	-	-5.30	28.95	-	74.00	54.00	
2369.30	V	35.50	-	-3.30	32.20	-	74.00	54.00	
2704.60	V	38.36	-	-2.29	36.07	-	74.00	54.00	
3574.90	V	36.35	-	-1.10	35.25	-	74.00	54.00	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

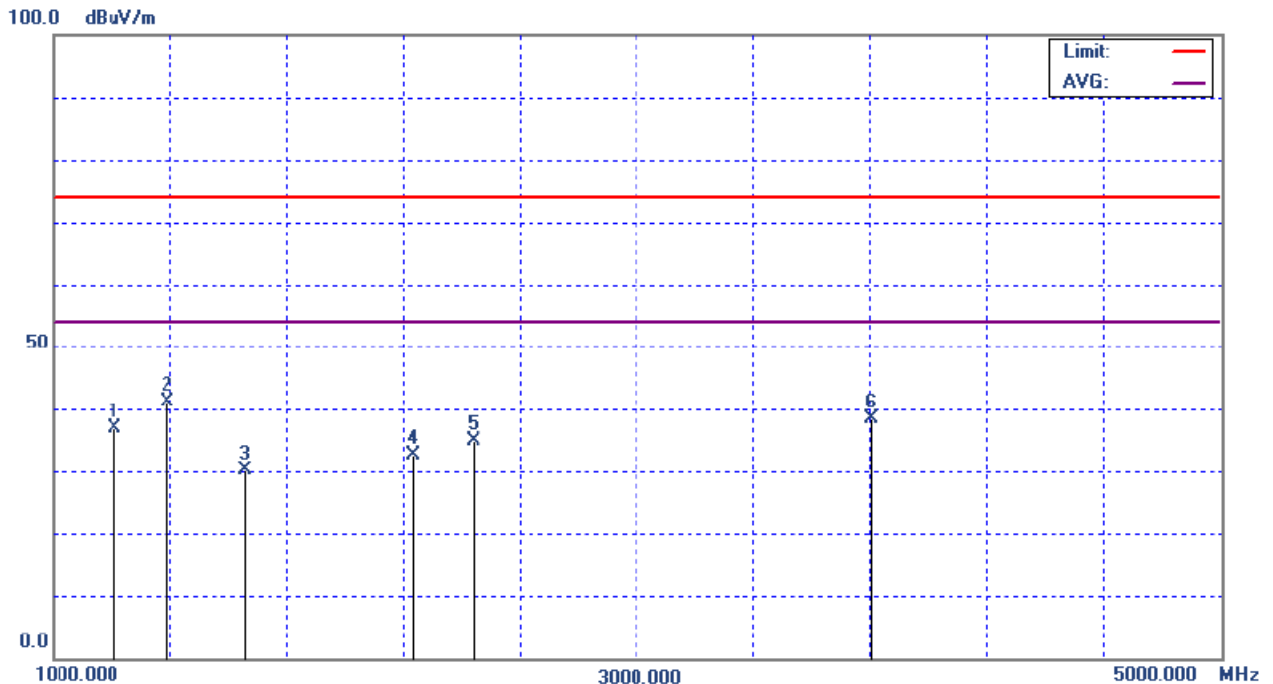


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	19 °C	Relative Humidity :	60%
Pressure :	1019 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (SATA & USB Dongle)		

Freq. (MHz)	Ant.Pol. (H/V)	Reading(dBuV)		Ant./CF CF(dB)	Act.(dBuV/m)		Limit(dBuV/m)		Note
		Peak	AV		Peak	AV	Peak	AV	
1203.60	H	44.63	-	-7.65	36.98	-	74.00	54.00	
1387.20	H	48.09	-	-6.87	41.22	-	74.00	54.00	
1650.70	H	36.22	-	-5.98	30.24	-	74.00	54.00	
2225.50	H	36.66	-	-3.96	32.70	-	74.00	54.00	
2433.10	H	37.98	-	-3.01	34.97	-	74.00	54.00	
3806.40	H	38.79	-	-0.50	38.29	-	74.00	54.00	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

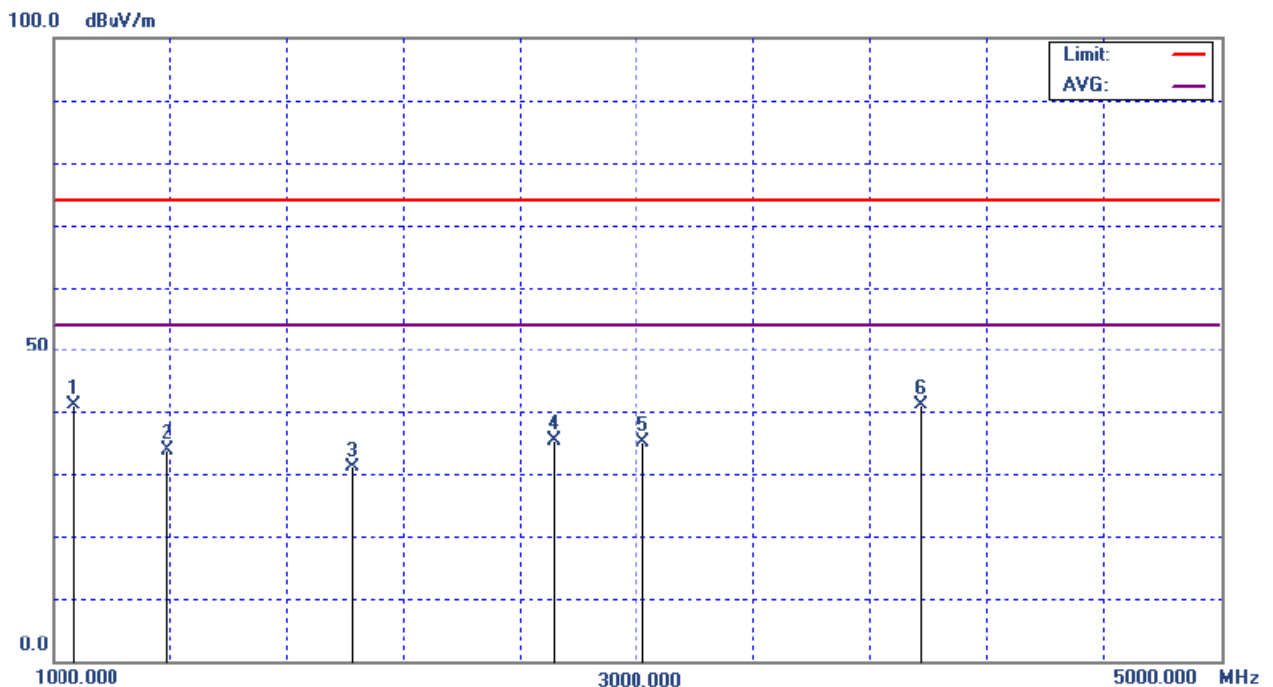


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	19 °C	Relative Humidity :	60%
Pressure :	1019 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)		

Freq. (MHz)	Ant.Pol. (H/V)	Reading(dBuV)		Ant./CF CF(dB)	Act.(dBuV/m)		Limit(dBuV/m)		Note
		Peak	AV		Peak	AV	Peak	AV	
1067.90	V	49.30	-	-8.22	41.08	-	74.00	54.00	
1387.20	V	40.65	-	-6.87	33.78	-	74.00	54.00	
2018.00	V	36.08	-	-4.92	31.16	-	74.00	54.00	
2712.60	V	37.60	-	-2.28	35.32	-	74.00	54.00	
3024.00	V	36.87	-	-1.68	35.19	-	74.00	54.00	
3974.10	V	41.16	-	-0.06	41.10	-	74.00	54.00	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

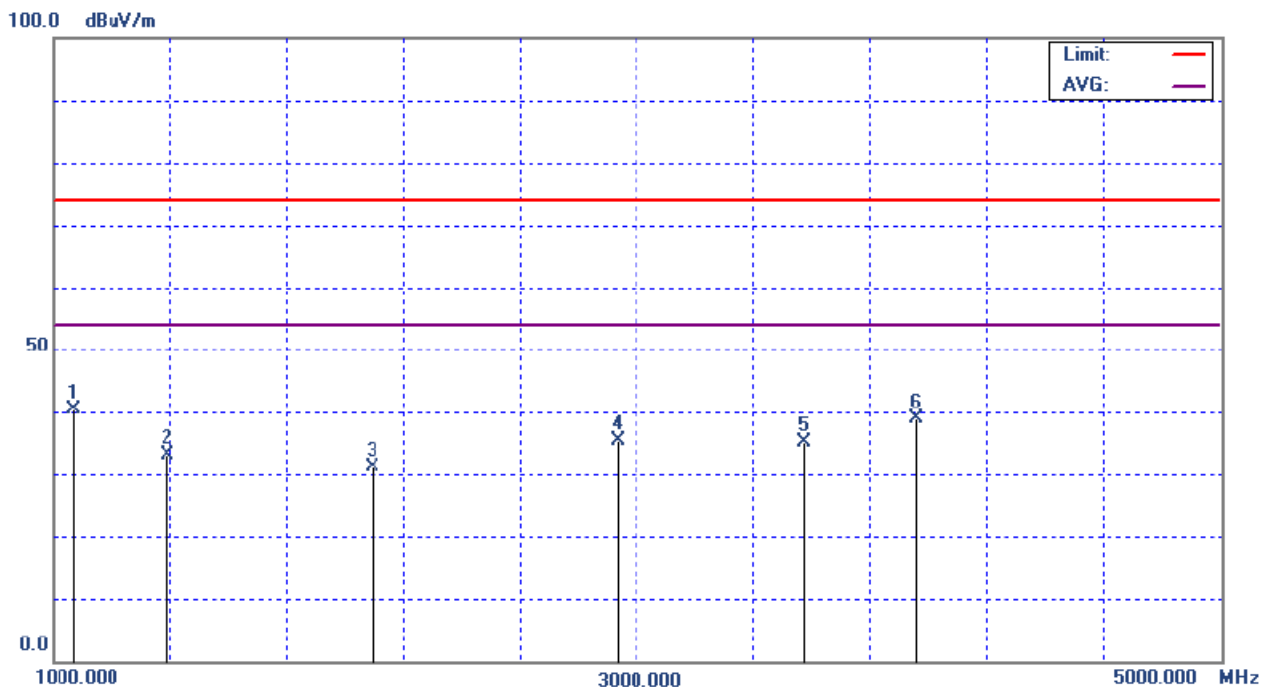


E.U.T :	PC System	Model Name :	ATIGO A1000
Temperature :	19 °C	Relative Humidity :	60%
Pressure :	1019 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Full System D-SUB 1920*1080/60Hz (IDE & USB Dongle)		

Freq. (MHz)	Ant.Pol. (H/V)	Reading(dBuV)		Ant./CF CF(dB)	Act.(dBuV/m)		Limit(dBuV/m)		Note
		Peak	AV		Peak	AV	Peak	AV	
1067.90	H	48.49	-	-8.22	40.27	-	74.00	54.00	
1387.20	H	40.10	-	-6.87	33.23	-	74.00	54.00	
2089.80	H	35.68	-	-4.59	31.09	-	74.00	54.00	
2928.10	H	37.18	-	-1.84	35.34	-	74.00	54.00	
3574.90	H	36.23	-	-1.10	35.13	-	74.00	54.00	
3958.10	H	38.99	-	-0.10	38.89	-	74.00	54.00	

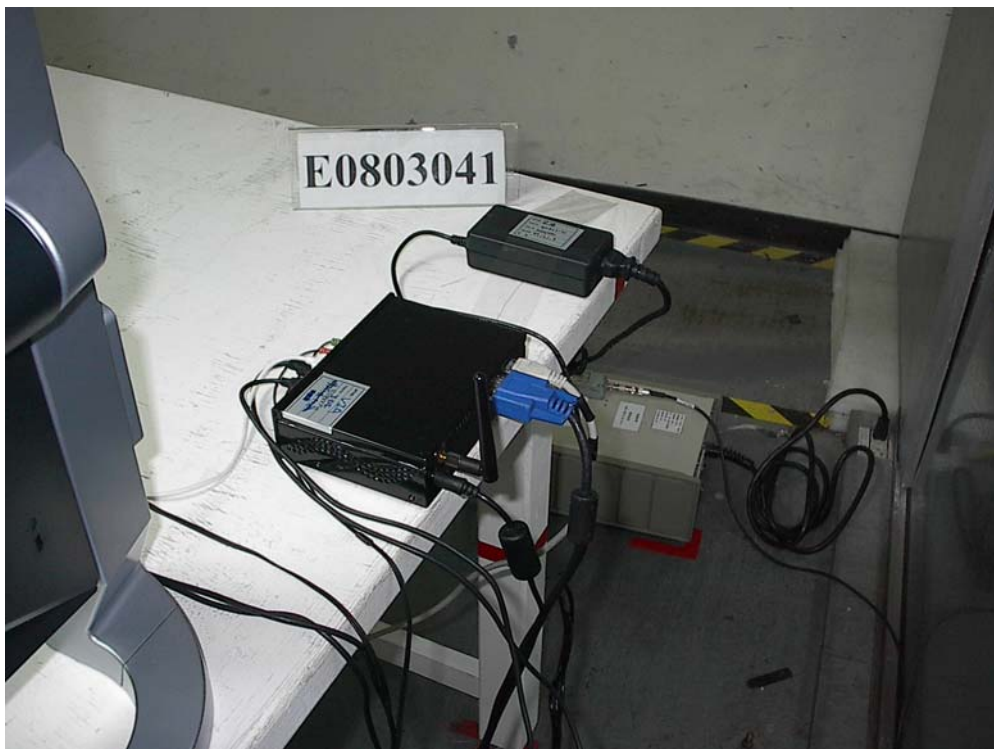
Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦



**5. EUT TEST PHOTO**

**Conducted Measurement Photos**



**Radiated Measurement Photos**

