

APPLICATION CERTIFICATION FCC Part 15B
On Behalf of
AEI Protect-On Systems Limited

ACCESS CONTROLLER
Model No.: DA-2311

FCC ID: OGJ-DA2311

Prepared for : AEI Protect-On Systems Limited
Address : Flat B, 4/F., Effort Industrial Building, 2-8 Kung Yip Street,
Kwai Chung, N.T., Hong Kong

Prepared by : ACCURATE TECHNOLOGY CO. LTD
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Report Number : ATE20120838
Date of Test : August 15-21, 2012
Date of Report : August 21, 2012

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Test Report Certification

Applicant : AEI Protect-On Systems Limited
Manufacturer : AEI Protect-On Systems Limited
EUT Description : ACCESS CONTROLLER
(A) MODEL NO.: DA-2311
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 12-24V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : August 15-21, 2012

Prepared by : Apple Lv
(Apple Lv, Engineer)

Approved & Authorized Signer : Sean Liu
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : ACCESS CONTROLLER

Model Number : DA-2311

Power Supply : DC 12-24V

Receiver Frequency : 433.92MHz

Applicant : AEI Protect-On Systems Limited

Address : Flat B, 4/F., Effort Industrial Building, 2-8 Kung Yip Street, Kwai Chung, N.T., Hong Kong

Manufacturer : AEI Protect-On Systems Limited

Address : Flat B, 4/F., Effort Industrial Building, 2-8 Kung Yip Street, Kwai Chung, N.T., Hong Kong

Date of sample received : August 15, 2012

Date of Test : August 15-21, 2012

1.2. Accessory and Auxiliary Equipment

n.a.

1.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The modes are used: Rx & Running

(Note: All normal using modes were tested but only the worst mode was recorded in the report.)

3.2.Configuration and peripherals



(EUT: ACCESS CONTROLLER)

4. TEST PROCEDURES AND RESULTS

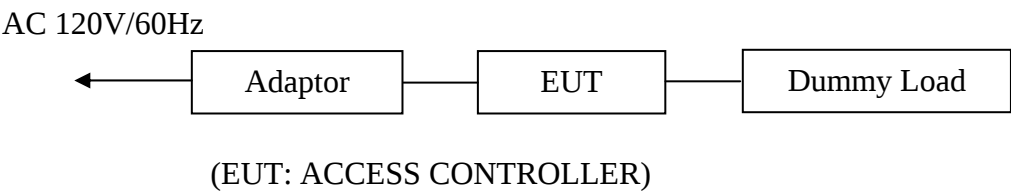
FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	Compliant
Section 15.109	Radiated Emission Test	Compliant

5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

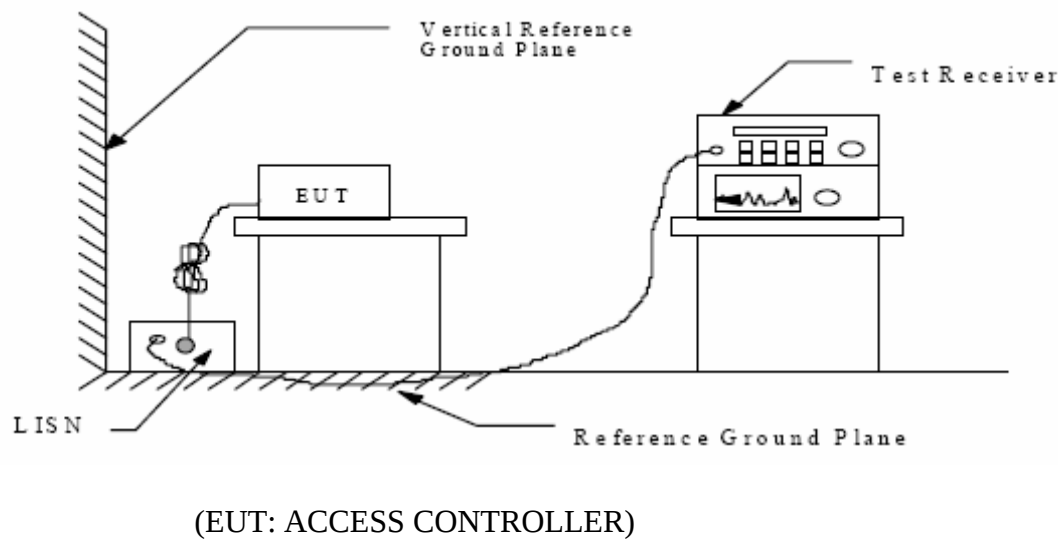
15.107(A)

5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



5.1.2. Shielding Room Test Setup Diagram



5.2. The Emission Limit

5.2.1. Conducted Emission Measurement Limits According to Section 15.107(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

5.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.ACCESS CONTROLLER (EUT)

Model Number	:	DA-2311
Serial Number	:	N/A
Manufacturer	:	AEI Protect-On Systems Limited

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in modes (Rx & Running) and measure it.

5.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	August 17, 2012	Temperature:	25°C
EUT:	ACCESS CONTROLLER	Humidity:	50%
Model No.:	DA-2311	Power Supply:	AC 120V/60Hz
Test Mode:	Rx & Running	Test Engineer:	PEI

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.187577	46.90	11.2	64	17.2	QP	L1	GND
0.250038	42.40	11.4	62	19.4	QP	L1	GND
0.317709	42.50	11.6	60	17.3	QP	L1	GND
2.041453	39.80	11.7	56	16.2	QP	L1	GND
3.471549	41.40	11.5	56	14.6	QP	L1	GND
6.095043	44.10	11.4	60	15.9	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.188327	34.70	11.2	54	19.4	AV	L1	GND
0.250038	30.90	11.4	52	20.9	AV	L1	GND
0.316443	31.70	11.6	50	18.1	AV	L1	GND
2.041453	28.10	11.7	46	17.9	AV	L1	GND
3.471549	33.70	11.5	46	12.3	AV	L1	GND
6.095043	39.10	11.4	50	10.9	AV	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190596	47.80	11.2	64	16.2	QP	N	GND
0.253051	47.80	11.4	62	13.9	QP	N	GND
0.321537	48.00	11.6	60	11.7	QP	N	GND
0.500809	43.60	12.0	56	12.4	QP	N	GND
2.033320	42.50	11.7	56	13.5	QP	N	GND
5.903466	41.80	11.4	60	18.2	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190596	36.40	11.2	54	17.6	AV	N	GND
0.253051	36.30	11.4	52	15.4	AV	N	GND
0.320256	35.40	11.6	50	14.3	AV	N	GND
0.500809	27.80	12.0	46	18.2	AV	N	GND
2.049619	27.00	11.7	46	19.0	AV	N	GND
5.903466	31.70	11.4	50	18.3	AV	N	GND

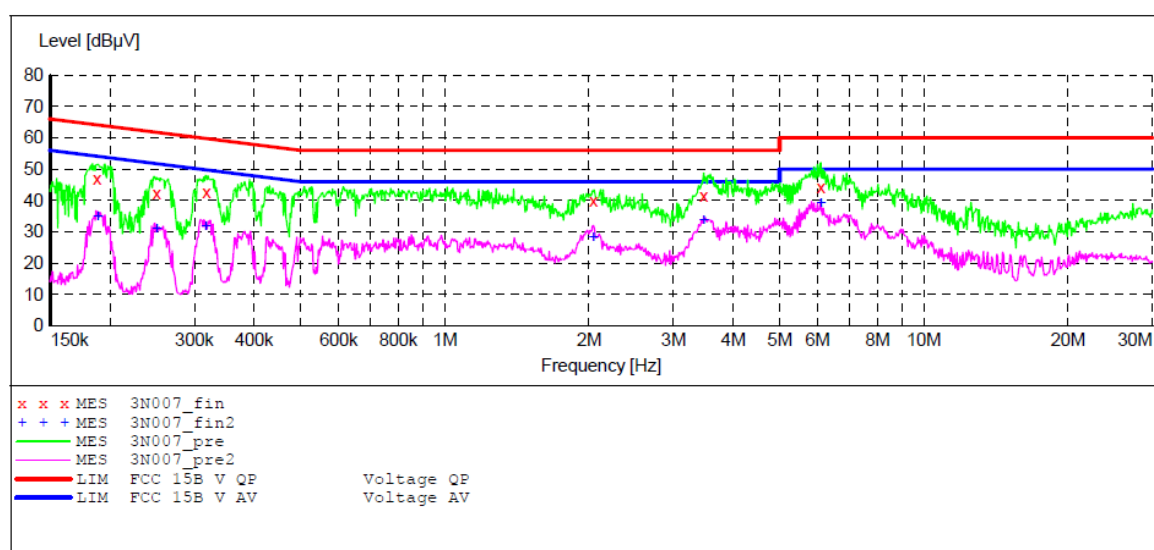
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ACCESS CONTROLLER M/N:DA-2311
 Manufacturer: AEI PROTECT-ON SYSTEMS LTD.
 Operating Condition: RX & Running
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20120836
 Start of Test: 8/17/2012 / 3:41:03PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "3N007_fin"**

8/17/2012 3:44PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.187577	46.90	11.2	64	17.2	QP	L1	GND
0.250038	42.40	11.4	62	19.4	QP	L1	GND
0.317709	42.50	11.6	60	17.3	QP	L1	GND
2.041453	39.80	11.7	56	16.2	QP	L1	GND
3.471549	41.40	11.5	56	14.6	QP	L1	GND
6.095043	44.10	11.4	60	15.9	QP	L1	GND

MEASUREMENT RESULT: "3N007_fin2"

8/17/2012 3:44PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.188327	34.70	11.2	54	19.4	AV	L1	GND
0.250038	30.90	11.4	52	20.9	AV	L1	GND
0.316443	31.70	11.6	50	18.1	AV	L1	GND
2.041453	28.10	11.7	46	17.9	AV	L1	GND
3.471549	33.70	11.5	46	12.3	AV	L1	GND
6.095043	39.10	11.4	50	10.9	AV	L1	GND

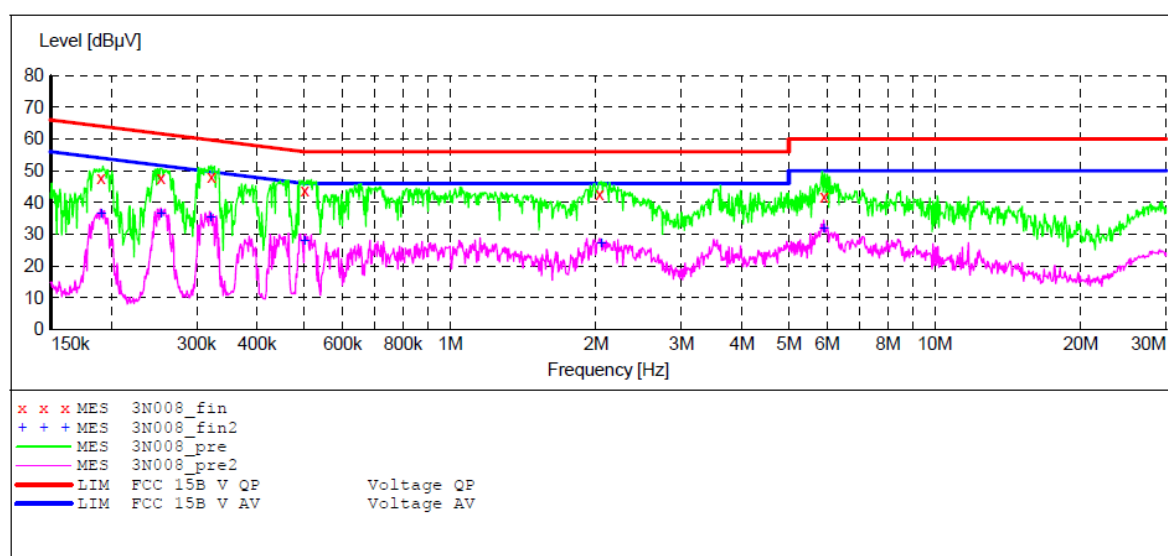
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ACCESS CONTROLLER M/N:DA-2311
 Manufacturer: AEI PROTECT-ON SYSTEMS LTD.
 Operating Condition: RX & Running
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20120836
 Start of Test: 8/17/2012 / 3:45:18PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						

**MEASUREMENT RESULT: "3N008_fin"**

8/17/2012 3:48PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190596	47.80	11.2	64	16.2	QP	N	GND
0.253051	47.80	11.4	62	13.9	QP	N	GND
0.321537	48.00	11.6	60	11.7	QP	N	GND
0.500809	43.60	12.0	56	12.4	QP	N	GND
2.033320	42.50	11.7	56	13.5	QP	N	GND
5.903466	41.80	11.4	60	18.2	QP	N	GND

MEASUREMENT RESULT: "3N008_fin2"

8/17/2012 3:48PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190596	36.40	11.2	54	17.6	AV	N	GND
0.253051	36.30	11.4	52	15.4	AV	N	GND
0.320256	35.40	11.6	50	14.3	AV	N	GND
0.500809	27.80	12.0	46	18.2	AV	N	GND
2.049619	27.00	11.7	46	19.0	AV	N	GND
5.903466	31.70	11.4	50	18.3	AV	N	GND

6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

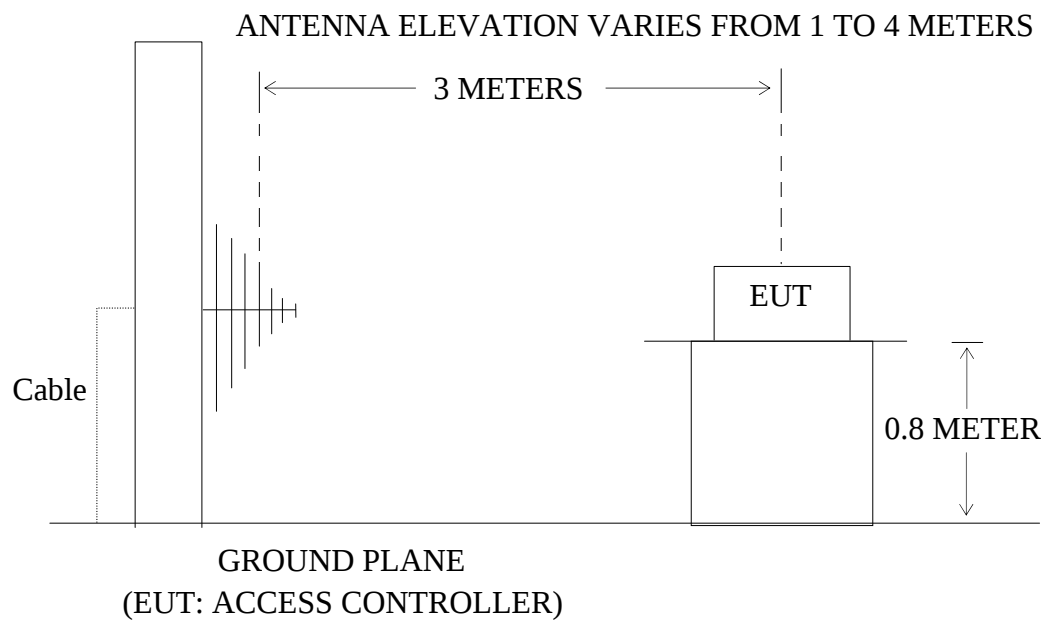
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



(EUT: ACCESS CONTROLLER)

6.1.2. Semi-Anechoic Chamber Test Setup Diagram



6.2.The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency (MHz)	Limit	
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

6.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1.ACCESS CONTROLLER (EUT)

Model Number : DA-2311
 Serial Number : N/A
 Manufacturer : AEI Protect-On Systems Limited

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3. Let the EUT work in RX & Running mode measure it.

6.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz and 1MHz in above 1000MHz.

The frequency range from 30MHz to 2000MHz is checked.

6.6.The Emission Measurement Result

PASS.

Date of Test:	August 19, 2012	Temperature:	25°C
	ACCESS		
EUT:	CONTROLLER	Humidity:	50%
Model No.:	DA-2311	Power Supply:	DC 12V
Test Mode:	Rx & Running	Test Engineer:	PEI

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	84.8782	7.38	13.56	20.94	40.00	-19.06	QP
	2	89.1578	10.58	13.81	24.39	43.50	-19.11	QP
	3	93.6531	7.93	14.03	21.96	43.50	-21.54	QP
	4	202.8745	4.68	16.11	20.79	43.50	-22.71	QP
	5	542.6104	2.08	25.06	27.14	46.00	-18.86	QP
	6	749.6761	2.49	27.60	30.09	46.00	-15.91	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	80.8042	10.00	13.80	23.80	40.00	-16.20	QP
	2	84.8783	11.32	13.90	25.22	40.00	-14.78	QP
	3	89.1579	14.86	13.68	28.54	43.50	-14.96	QP
	4	93.6532	13.52	13.79	27.31	43.50	-16.19	QP
	5	98.0302	8.61	13.93	22.54	43.50	-20.96	QP
	6	871.9442	3.72	28.66	32.38	46.00	-13.62	QP
Frequency: 1000-2000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1281.395	48.40	-12.24	36.16	74.00	-37.84	peak
	2	1281.395	41.01	-12.24	28.77	54.00	-25.23	AVG
	3	1477.467	47.91	-11.55	36.36	74.00	-37.64	peak
	4	1477.467	40.57	-11.55	29.02	54.00	-24.98	AVG
	5	1702.359	47.91	-10.26	37.65	74.00	-36.35	peak
	6	1702.359	40.22	-10.26	29.96	54.00	-24.04	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1233.370	47.41	-12.36	35.05	74.00	-38.95	peak
	2	1233.370	40.11	-12.36	27.75	54.00	-26.25	AVG
	3	1445.996	47.48	-11.62	35.86	74.00	-38.14	peak
	4	1445.996	40.57	-11.62	28.95	54.00	-25.05	AVG
	5	1701.177	47.21	-10.27	36.94	74.00	-37.06	peak
	6	1701.177	40.66	-10.27	30.39	54.00	-23.61	AVG

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams are attached as below display the measurement of peak values.



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Site: 966 chamber
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Job No.: STAR #2144

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: ACCESS CONTROLLER

Mode: RX & Running

Model: DA-2311

Manufacturer: AEI PROTECT-ON SYSTEMS LTD.

Polarization: Horizontal

Power Source: DC 12V

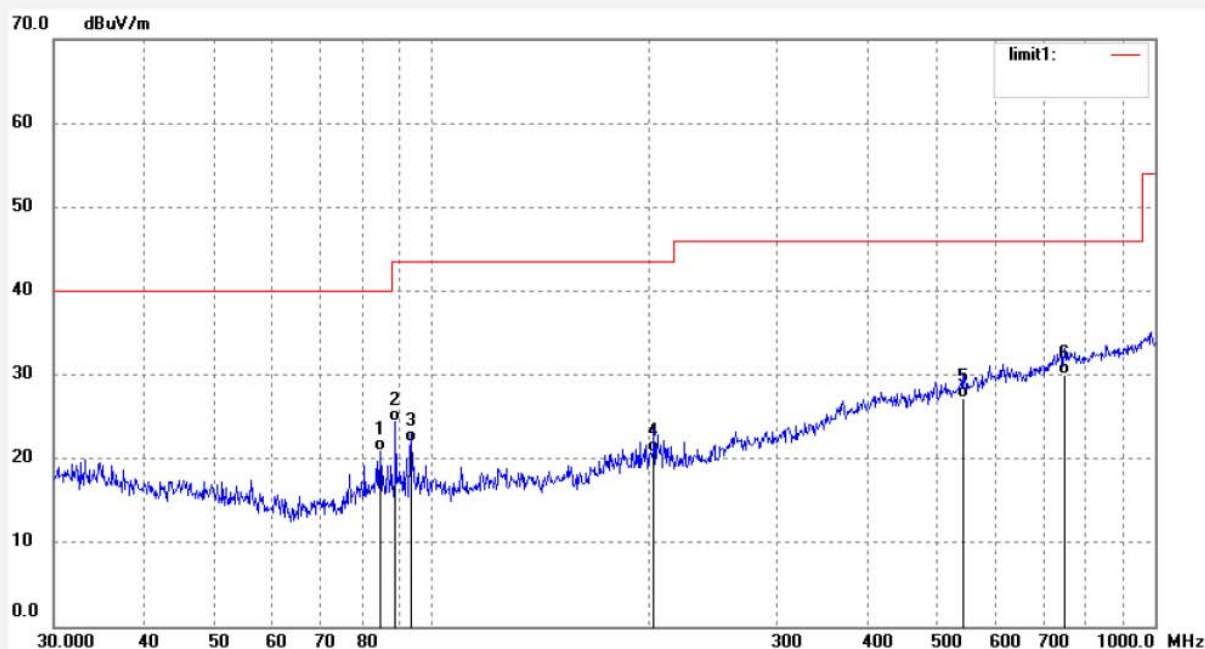
Date: 2012/08/19

Time: 10:37:31

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20120836



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	84.8782	7.38	13.56	20.94	40.00	-19.06	QP			
2	89.1578	10.58	13.81	24.39	43.50	-19.11	QP			
3	93.6531	7.93	14.03	21.96	43.50	-21.54	QP			
4	202.8745	4.68	16.11	20.79	43.50	-22.71	QP			
5	542.6104	2.08	25.06	27.14	46.00	-18.86	QP			
6	749.6761	2.49	27.60	30.09	46.00	-15.91	QP			



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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: STAR #2145

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: ACCESS CONTROLLER

Mode: RX & Running

Model: DA-2311

Manufacturer: AEI PROTECT-ON SYSTEMS LTD.

Polarization: Vertical

Power Source: DC 12V

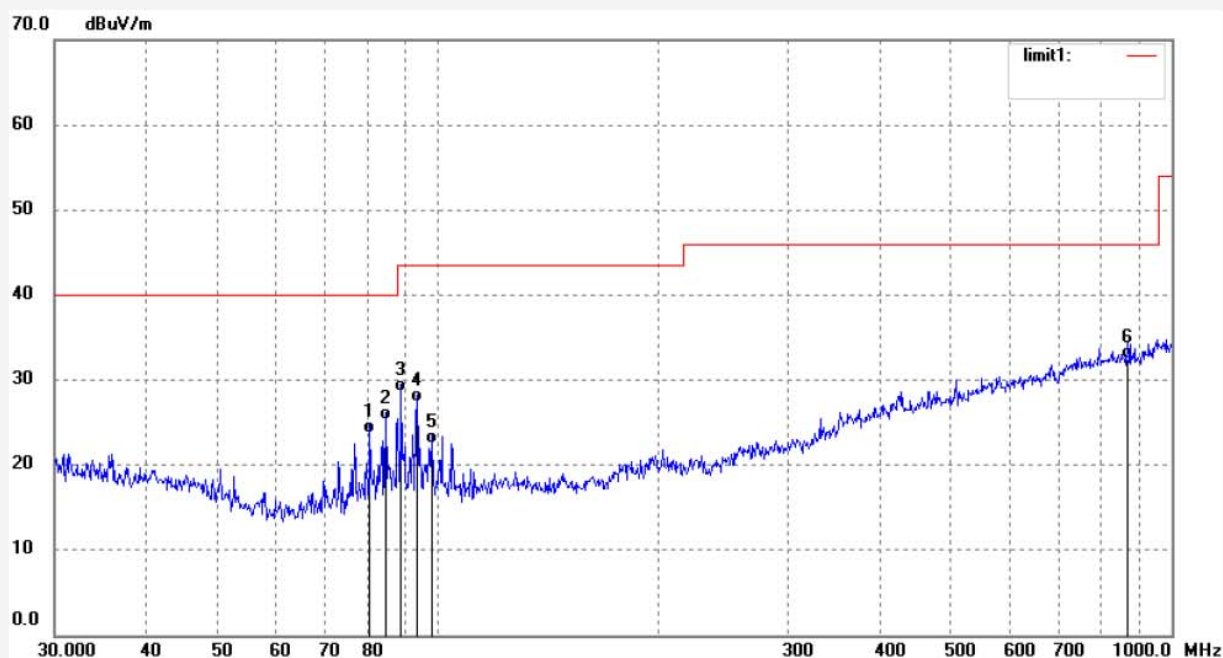
Date: 2012/08/19

Time: 10:38:22

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20120836



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	80.8042	10.00	13.80	23.80	40.00	-16.20	QP			
2	84.8783	11.32	13.90	25.22	40.00	-14.78	QP			
3	89.1579	14.86	13.68	28.54	43.50	-14.96	QP			
4	93.6532	13.52	13.79	27.31	43.50	-16.19	QP			
5	98.0302	8.61	13.93	22.54	43.50	-20.96	QP			
6	871.9442	3.72	28.66	32.38	46.00	-13.62	QP			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star #1746

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: ACCESS CONTROLLER

Mode: RX & Running

Model: DA-2311

Manufacturer: AEI PROTECT-ON SYSTEMS LTD.

Polarization: Horizontal

Power Source: DC 12V

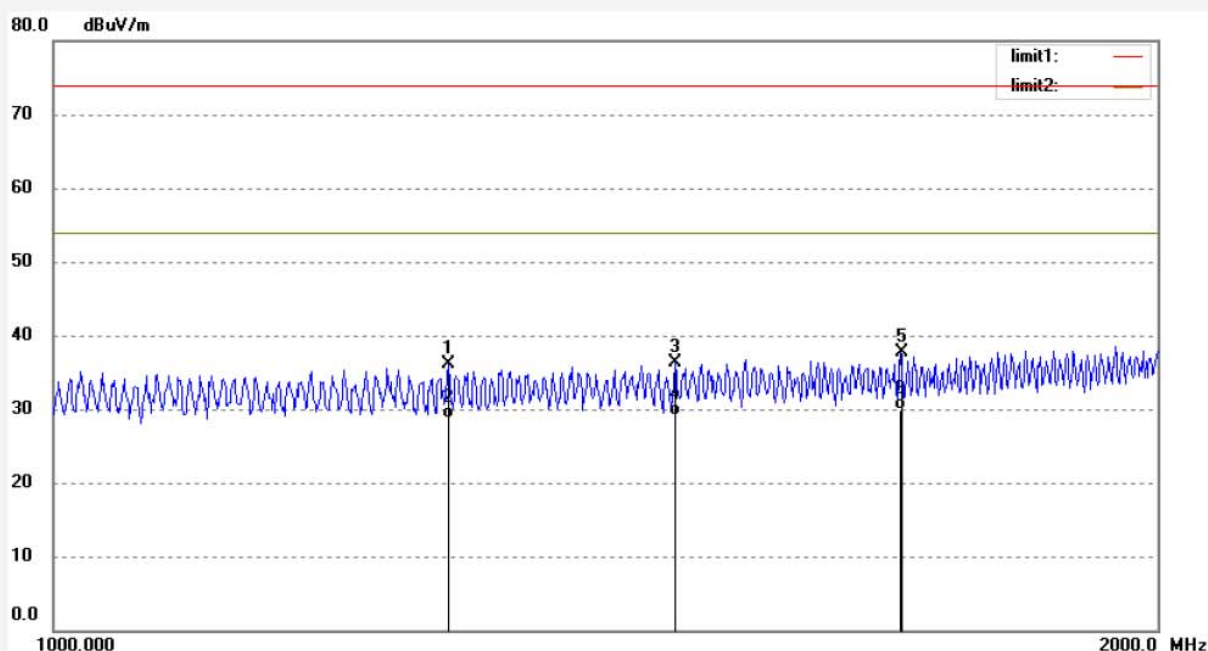
Date: 2012/08/19

Time: 11:06:56

Engineer Signature: Star

Distance: 3m

Note: Report No.:ATE20120836



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1281.395	48.40	-12.24	36.16	74.00	-37.84	peak			
2	1281.395	41.01	-12.24	28.77	54.00	-25.23	AVG			
3	1477.467	47.91	-11.55	36.36	74.00	-37.64	peak			
4	1477.467	40.57	-11.55	29.02	54.00	-24.98	AVG			
5	1702.359	47.91	-10.26	37.65	74.00	-36.35	peak			
6	1702.359	40.22	-10.26	29.96	54.00	-24.04	AVG			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star #1747

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: ACCESS CONTROLLER

Mode: RX & Running

Model: DA-2311

Manufacturer: AEI PROTECT-ON SYSTEMS LTD.

Polarization: Vertical

Power Source: DC 12V

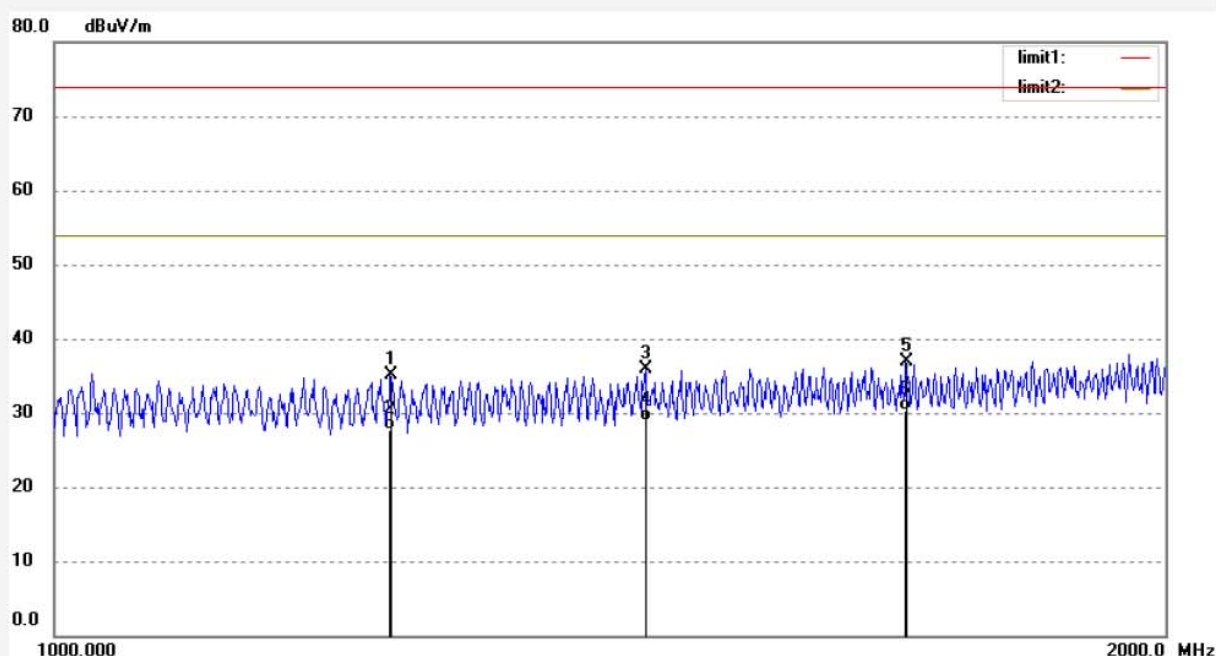
Date: 2012/08/19

Time: 11:09:17

Engineer Signature: Star

Distance: 3m

Note: Report No.:ATE20120836



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1233.370	47.41	-12.36	35.05	74.00	-38.95	peak			
2	1233.370	40.11	-12.36	27.75	54.00	-26.25	AVG			
3	1445.996	47.48	-11.62	35.86	74.00	-38.14	peak			
4	1445.996	40.57	-11.62	28.95	54.00	-25.05	AVG			
5	1701.177	47.21	-10.27	36.94	74.00	-37.06	peak			
6	1701.177	40.66	-10.27	30.39	54.00	-23.61	AVG			