

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

SPLIT-DECODED ACCESS CONTROLLER
Model No.: DA-2800, DA-2801

FCC ID: OGJ-DA2800

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 : ATE20120839
Date of Test : August 15-26, 2012
Date of Report : August 27, 2012

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Test Report Certification

Applicant : AEI Protect-On Systems Limited
Manufacturer : AEI Protect-On Systems Limited
EUT Description : SPLIT-DECODED ACCESS CONTROLLER
(A) MODEL NO.: DA-2800, DA-2801
(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 15-26, 2012

Prepared by :



(Apple Lv, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	SPLIT-DECODED ACCESS CONTROLLER
Model Number	:	DA-2800, DA-2801 (Note: These samples are identical, except the appearance is difference. Therefore only model DA-2800 is tested for EMC tests.)
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 15-26, 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: SPLIT-DECODED ACCESS CONTROLLER)

4. TEST PROCEDURES AND RESULTS

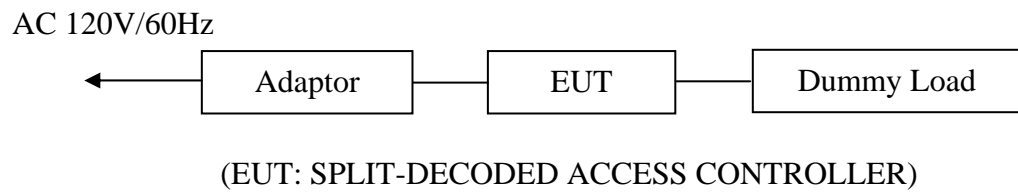
FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	Compliant
Section 15.109	Radiated Emission Test	Compliant

5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

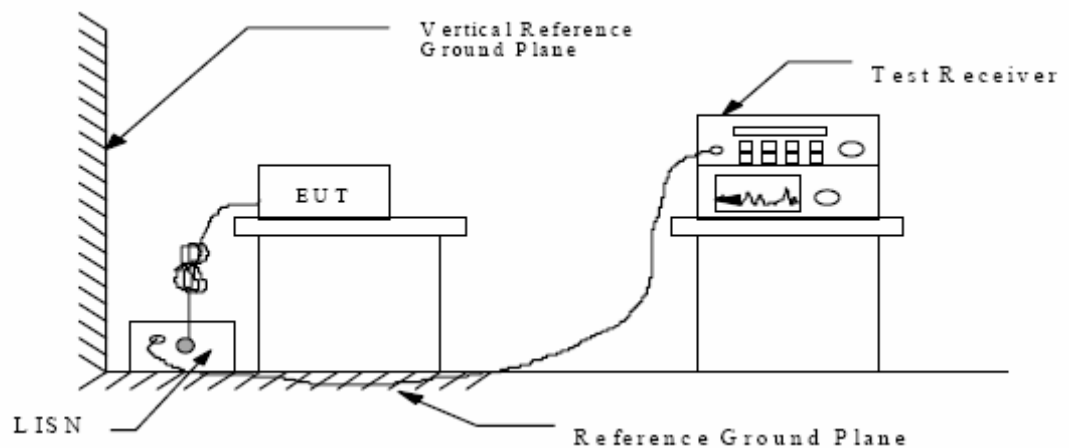
15.107(A)

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.SPLIT-DECODED ACCESS CONTROLLER (EUT)

Model Number : DA-2800
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 26, 2012	Temperature:	25°C
EUT:	SPLIT-DECODED ACCESS CONTROLLER	Humidity:	50%
Model No.:	DA-2800	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
0.185344	49.70	11.2	64	14.5	QP	N	GND
0.254063	46.90	11.4	62	14.7	QP	N	GND
0.316443	43.50	11.6	60	16.3	QP	N	GND
0.449637	40.80	11.9	57	16.1	QP	N	GND
2.176100	37.60	11.6	56	18.4	QP	N	GND
24.845266	36.40	11.0	60	23.6	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.189837	39.10	11.2	54	14.9	AV	N	GND
0.254063	34.70	11.4	52	16.9	AV	N	GND
0.317709	32.10	11.6	50	17.7	AV	N	GND
0.447846	24.90	11.9	47	22.0	AV	N	GND
2.176100	23.60	11.6	46	22.4	AV	N	GND
22.575353	32.80	11.1	50	17.2	AV	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.187577	47.00	11.2	64	17.1	QP	L1	GND
0.253051	45.40	11.4	62	16.3	QP	L1	GND
0.318980	42.40	11.6	60	17.3	QP	L1	GND
0.442514	39.70	11.9	57	17.3	QP	L1	GND
0.851641	37.50	11.9	56	18.5	QP	L1	GND
25.549338	42.50	11.0	60	17.5	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.188327	36.20	11.2	54	17.9	AV	L1	GND
0.250038	34.10	11.4	52	17.7	AV	L1	GND
0.320256	31.40	11.6	50	18.3	AV	L1	GND
0.447846	26.70	11.9	47	20.2	AV	L1	GND
0.851641	24.90	11.9	46	21.1	AV	L1	GND
25.549338	35.80	11.0	50	14.2	AV	L1	GND

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

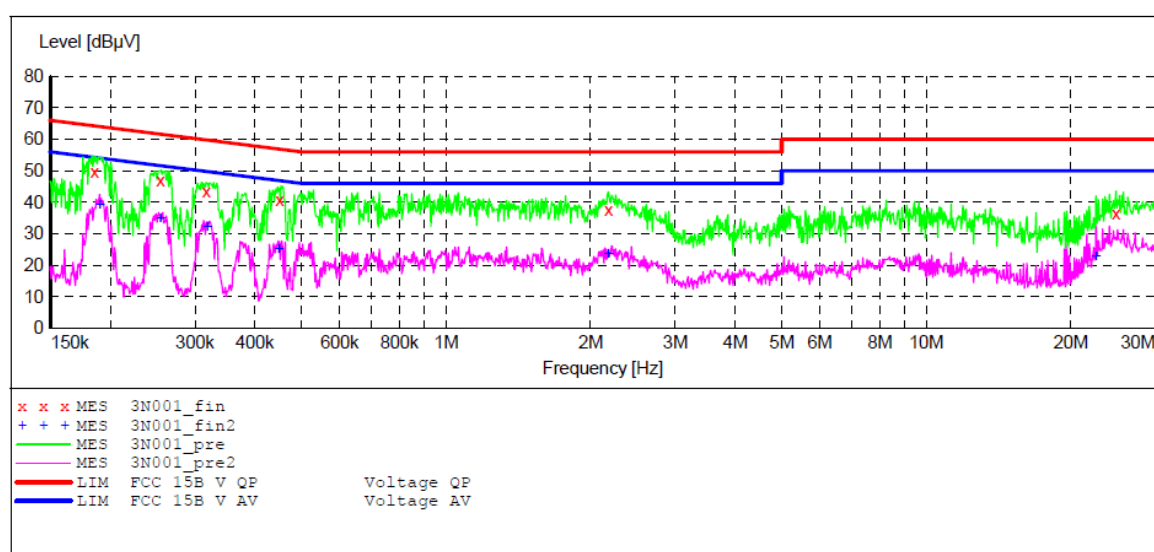
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: SPLIT-DECODED ACCESS CONTROLLER M/N:DA2800
 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.:ATE20120839
 Start of Test: 8/26/2012 / 3:17:37PM

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: "3N001_fin"**

8/26/2012 3:20PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.185344	49.70	11.2	64	14.5	QP	N	GND
0.254063	46.90	11.4	62	14.7	QP	N	GND
0.316443	43.50	11.6	60	16.3	QP	N	GND
0.449637	40.80	11.9	57	16.1	QP	N	GND
2.176100	37.60	11.6	56	18.4	QP	N	GND
24.845266	36.40	11.0	60	23.6	QP	N	GND

MEASUREMENT RESULT: "3N001_fin2"

8/26/2012 3:20PM

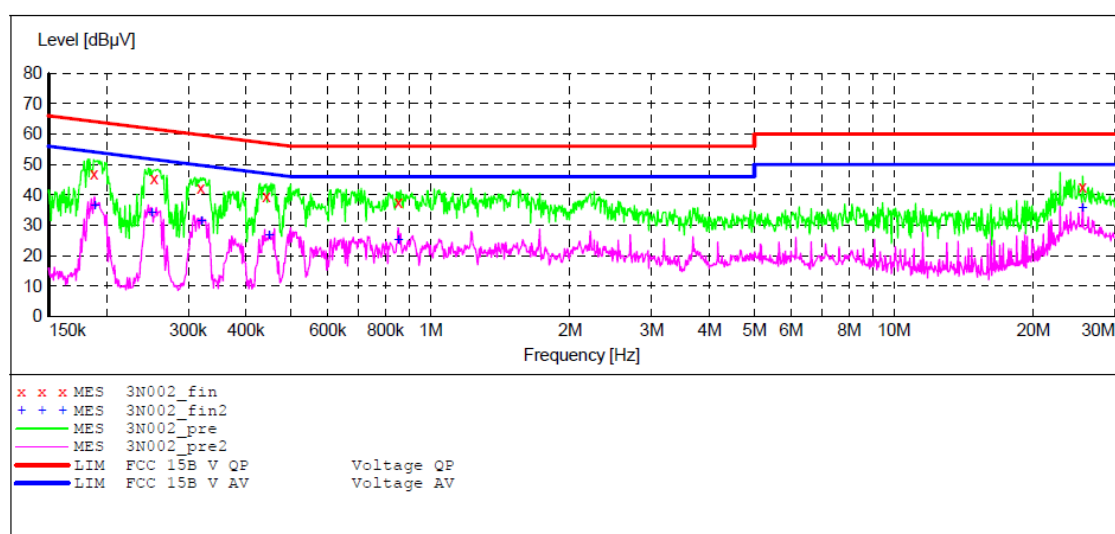
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.189837	39.10	11.2	54	14.9	AV	N	GND
0.254063	34.70	11.4	52	16.9	AV	N	GND
0.317709	32.10	11.6	50	17.7	AV	N	GND
0.447846	24.90	11.9	47	22.0	AV	N	GND
2.176100	23.60	11.6	46	22.4	AV	N	GND
22.575353	32.80	11.1	50	17.2	AV	N	GND

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

EUT: SPLIT-DECODED ACCESS CONTROLLER M/N:DA2800
 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.:ATE20120839
 Start of Test: 8/26/2012 / 3:21:46PM

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: "3N002_fin"

8/26/2012 3:24PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.187577	47.00	11.2	64	17.1	QP	L1	GND
0.253051	45.40	11.4	62	16.3	QP	L1	GND
0.318980	42.40	11.6	60	17.3	QP	L1	GND
0.442514	39.70	11.9	57	17.3	QP	L1	GND
0.851641	37.50	11.9	56	18.5	QP	L1	GND
25.549338	42.50	11.0	60	17.5	QP	L1	GND

MEASUREMENT RESULT: "3N002_fin2"

8/26/2012 3:24PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.188327	36.20	11.2	54	17.9	AV	L1	GND
0.250038	34.10	11.4	52	17.7	AV	L1	GND
0.320256	31.40	11.6	50	18.3	AV	L1	GND
0.447846	26.70	11.9	47	20.2	AV	L1	GND
0.851641	24.90	11.9	46	21.1	AV	L1	GND
25.549338	35.80	11.0	50	14.2	AV	L1	GND

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

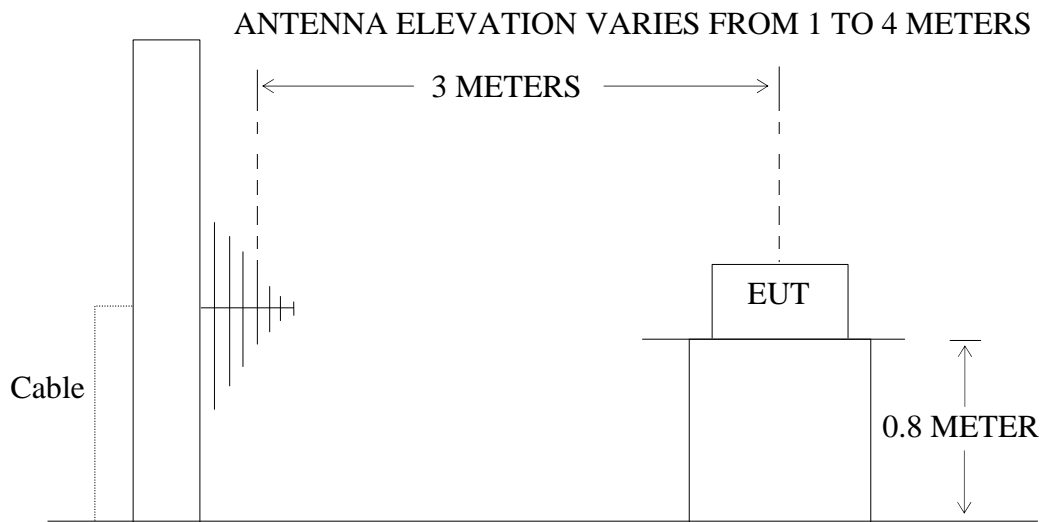
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



(EUT: SPLIT-DECODED ACCESS CONTROLLER)

6.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: SPLIT-DECODED ACCESS CONTROLLER)

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.SPLIT-DECODED ACCESS CONTROLLER (EUT)

Model Number : DA-2800
 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
	SPLIT-DECODED ACCESS		
EUT:	CONTROLLER	Humidity:	50%
Model No.:	DA-2800	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	72.0000	18.91	12.02	30.93	40.00	-9.07	QP
	2	84.0000	24.30	13.54	37.84	40.00	-2.16	QP
	3	96.0000	27.77	14.07	41.84	43.50	-1.66	QP
	4	108.0050	27.82	13.78	41.60	43.50	-1.90	QP
	5	120.0000	23.52	14.67	38.19	43.50	-5.31	QP
	6	216.0100	17.50	16.56	34.06	46.00	-11.94	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	84.0000	11.72	13.88	25.60	40.00	-14.40	QP
	2	96.0000	14.27	13.87	28.14	43.50	-15.36	QP
	3	108.0000	24.17	14.18	38.35	43.50	-5.15	QP
	4	120.0000	11.68	14.67	26.35	43.50	-17.15	QP
	5	216.0100	10.76	16.56	27.32	46.00	-18.68	QP
	6	556.1708	10.61	25.34	35.95	46.00	-10.05	QP
Frequency: 1000-2000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1216.356	48.73	-12.44	36.29	74.00	-37.71	peak
	2	1216.356	41.31	-12.44	28.87	54.00	-25.13	AVG
	3	1587.034	47.79	-11.05	36.74	74.00	-37.26	peak
	4	1587.034	40.27	-11.05	29.22	54.00	-24.78	AVG
	5	1965.573	47.42	-9.21	38.21	74.00	-35.79	peak
	6	1965.573	40.18	-9.21	30.97	54.00	-23.03	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1233.370	47.54	-12.36	35.18	74.00	-38.82	peak
	2	1233.370	40.11	-12.36	27.75	54.00	-26.25	AVG
	3	1621.574	47.00	-10.95	36.05	74.00	-37.95	peak
	4	1621.574	39.84	-10.95	28.89	54.00	-25.11	AVG
	5	1881.422	47.56	-9.65	37.91	74.00	-36.09	peak
	6	1881.422	39.04	-9.65	29.39	54.00	-24.61	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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Job No.: STAR #2147

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: SPLIT-DECODED ACCESS CONTROLLER

Mode: Rx & Running

Model: DA-2800

Manufacturer: AEI PROTECT-ON SYSTEMS LTD.

Polarization: Horizontal

Power Source: DC 12V

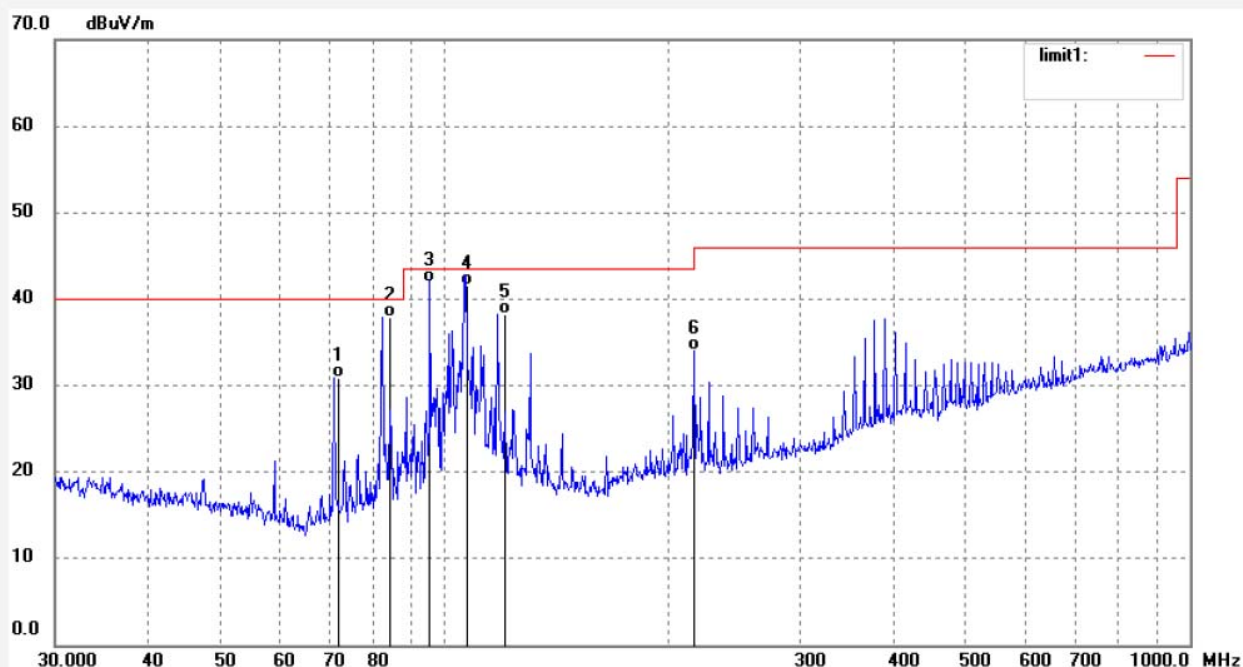
Date: 2012/04/19

Time: 10:46:33

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20120839



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.0000	18.91	12.02	30.93	40.00	-9.07	QP			
2	84.0000	24.30	13.54	37.84	40.00	-2.16	QP			
3	96.0000	27.77	14.07	41.84	43.50	-1.66	QP			
4	108.0050	27.82	13.78	41.60	43.50	-1.90	QP			
5	120.0000	23.52	14.67	38.19	43.50	-5.31	QP			
6	216.0100	17.50	16.56	34.06	46.00	-11.94	QP			



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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #2148

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: SPLIT-DECODED ACCESS CONTROLLER

Mode: Rx & Running

Model: DA-2800

Manufacturer: AEI PROTECT-ON SYSTEMS LTD.

Polarization: Vertical

Power Source: DC 12V

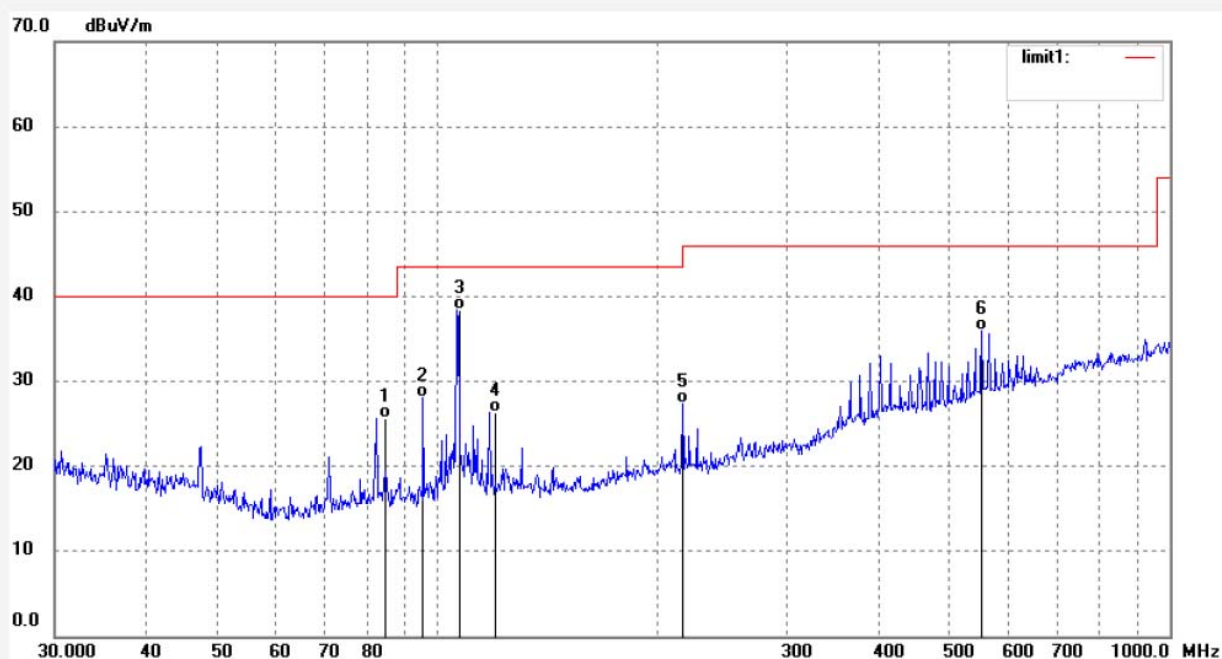
Date: 2012/08/19

Time: 10:51:28

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20120839



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	84.0000	11.72	13.88	25.60	40.00	-14.40	QP			
2	96.0000	14.27	13.87	28.14	43.50	-15.36	QP			
3	108.0000	24.17	14.18	38.35	43.50	-5.15	QP			
4	120.0000	11.68	14.67	26.35	43.50	-17.15	QP			
5	216.0100	10.76	16.56	27.32	46.00	-18.68	QP			
6	556.1708	10.61	25.34	35.95	46.00	-10.05	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star #1749

Standard: FCC PART 15B (PK)

Test item: Radiation Test

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

EUT: SPLIT-DECODED ACCESS CONTROLLER

Mode: RX & Running

Model: DA-2800

Manufacturer: AEI PROTECT-ON SYSTEMS LTD.

Polarization: Horizontal

Power Source: DC 12V

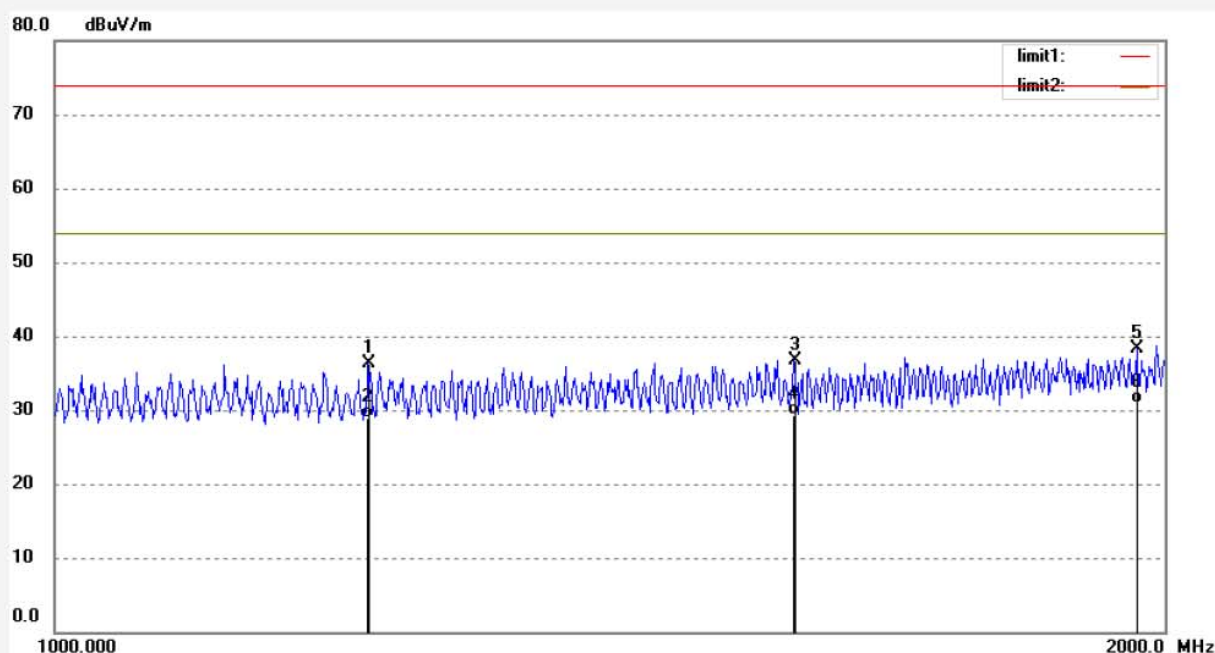
Date: 2012/08/19

Time: 11:17:52

Engineer Signature: Star

Distance: 3m

Note: Report No.:ATE20120839



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1216.356	48.73	-12.44	36.29	74.00	-37.71	peak			
2	1216.356	41.31	-12.44	28.87	54.00	-25.13	AVG			
3	1587.034	47.79	-11.05	36.74	74.00	-37.26	peak			
4	1587.034	40.27	-11.05	29.22	54.00	-24.78	AVG			
5	1965.573	47.42	-9.21	38.21	74.00	-35.79	peak			
6	1965.573	40.18	-9.21	30.97	54.00	-23.03	AVG			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star #1748

Standard: FCC PART 15B (PK)

Test item: Radiation Test

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

EUT: SPLIT-DECODED ACCESS CONTROLLER

Mode: RX & Running

Model: DA-2311

Manufacturer: AEI PROTECT-ON SYSTEMS LTD.

Polarization: Vertical

Power Source: DC 12V

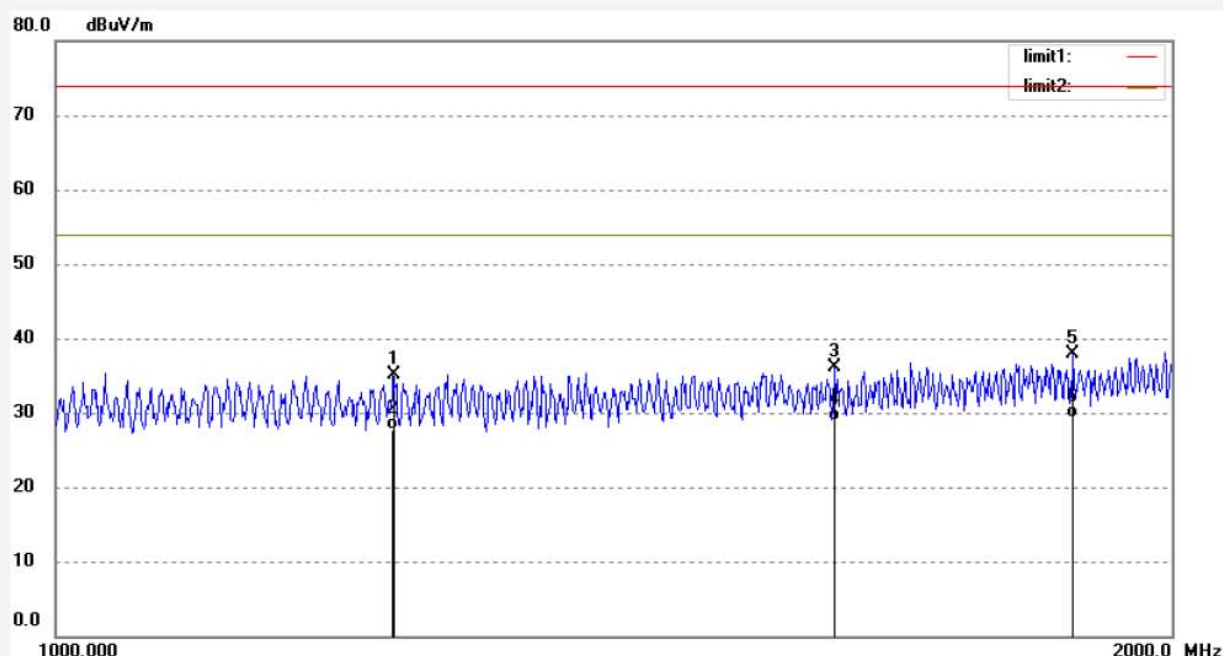
Date: 2012/08/19

Time: 11:13:28

Engineer Signature: Star

Distance: 3m

Note: Report No.:ATE20120839



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	47.54	-12.36	35.18	74.00	-38.82	peak			
2	1233.370	40.11	-12.36	27.75	54.00	-26.25	AVG			
3	1621.574	47.00	-10.95	36.05	74.00	-37.95	peak			
4	1621.574	39.84	-10.95	28.89	54.00	-25.11	AVG			
5	1881.422	47.56	-9.65	37.91	74.00	-36.09	peak			
6	1881.422	39.04	-9.65	29.39	54.00	-24.61	AVG			