APPLICATION FOR VERIFICATION
On Behalf of
AEI Protect-On Systems Limited

Access Control Keypad with Proximity Card Reader
Model No.: DK2852

FCC ID: OGJ-DK2852

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.
Address	:	F1, Bldg. A&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China Tel: +86-755-26503290 Fax: +86-755-26503396

Report No.	:	ATE20151934
Date of Test	:	Sep 1-8, 2015
Date of Report	:	Sep 9, 2015

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Description Page

Test Report Declaration

Applicant& address	:	AEI Protect-On Systems Limited Flat B, 4/F., Effort Industrial. Building, 2-8 Kung Yip Street Kwai Chung, N.T. Hong Kong
Manufacturer& address	:	AEI Protect-On Systems Limited Flat B, 4/F., Effort Industrial. Building, 2-8 Kung Yip Street Kwai Chung, N.T. Hong Kong
Product	:	Access Control Keypad with Proximity Card Reader
Model No.	:	DK2852
Trade name	:	N/A

Measurement Procedure Used:

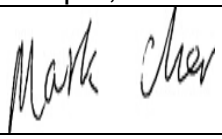
FCC Rules and Regulations Part 15 Subpart C 15.207&15.209
FCC/ANSI C63.4-2014

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 C limits both radiated and conducted emissions. 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 : Sep 1-8, 2015

Date of Report : Sep 9, 2015

Prepared by : 

(Mark Chen, Engineer)

Approved & Authorized Signer : 

(Sean Liu, Manager)

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15.207	Pass
Radiated Emission	FCC Part 15.209	Pass

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

The submitted sample is a Access Control Keypad with Proximity Card Reader. The sample is powered by 12-24V DC/AC.

		Access Control Keypad with Proximity Card Reader
Frequency	:	125KHz
Number of Channels	:	1
Modulation Type	:	GFSK
Type of Antenna	:	Internal Antenna
Max antenna gain	:	0dBi
Power Supply	:	12-24V DC/AC

2.2.Special Accessory and Auxiliary Equipment

N/A

2.3.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC
The Registration Number is 253065
Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-1
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&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China

2.4.Measurement Uncertainty

Conducted emission expanded uncertainty	:	U=2.23dB, k=2
Power disturbance expanded uncertainty	:	U=2.92dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	:	U=3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	:	U=4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	:	U=4.06dB, k=2

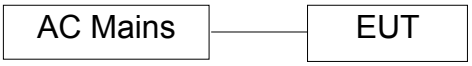
3. POWER LINE CONDUCTED MEASUREMENT

3.1. For Power Line Conducted Emission

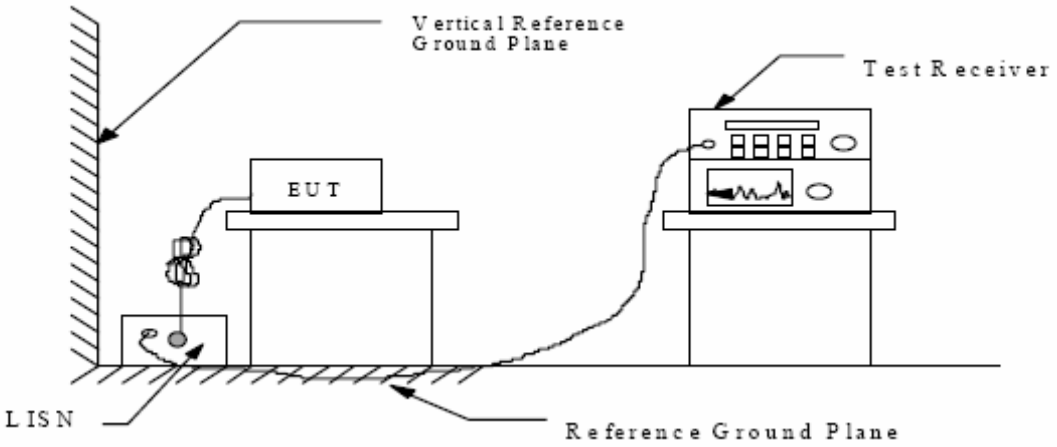
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan. 11, 2015	1 Year
2.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan. 11, 2015	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan. 11, 2015	1 Year
4.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	Jan. 11, 2015	1 Year
Expanded Uncertainty: U= 2.23dB, k=2						

3.2. Block Diagram of Test Setup

3.2.1.Block diagram of connection between the EUT and simulators



3.2.2.Shielding Room Test Setup Diagram



(EUT: Access Control Keypad with Proximity Card Reader)

3.3.The Emission Limit

3.3.1.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.

3.4.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.

3.4.1.Access Control Keypad with Proximity Card Reader (EUT)

Model Number : DK2852
Manufacturer : AEI Protect-On Systems Limited

3.5.Operating Condition of EUT

3.5.1.Setup the EUT and simulator as shown as Section 3.1.

3.5.2.Turn on the power of all equipment.

3.5.3.Let the EUT work in modes (TX) and measure it.

3.6.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.

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

Test mode : TX（AC 12V）

MEASUREMENT RESULT: "RY0814-1_fin"

8/14/2015 4:04PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	33.90	10.7	57	23.0	QP	L1	GND
2.600000	27.90	11.0	56	28.1	QP	L1	GND
12.115000	37.00	11.3	60	23.0	QP	L1	GND

MEASUREMENT RESULT: "RY0814-1_fin2"

8/14/2015 4:04PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	26.40	10.7	47	20.5	AV	L1	GND
1.360000	25.10	10.9	46	20.9	AV	L1	GND
12.115000	30.20	11.3	50	19.8	AV	L1	GND

MEASUREMENT RESULT: "RY0814-2_fin"

8/14/2015 4:08PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	33.50	10.7	57	23.4	QP	N	GND
1.730000	27.60	10.9	56	28.4	QP	N	GND
10.885000	29.30	11.3	60	30.7	QP	N	GND

MEASUREMENT RESULT: "RY0814-2_fin2"

8/14/2015 4:08PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	20.30	10.7	47	26.6	AV	N	GND
2.720000	22.30	11.0	46	23.7	AV	N	GND
10.885000	21.30	11.3	50	28.7	AV	N	GND

Test mode : TX（AC 24V）

MEASUREMENT RESULT: "RY0818-1_fin"

8/18/2015 9:36AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	43.50	10.5	65	21.0	QP	L1	GND
3.770000	36.20	11.1	56	19.8	QP	L1	GND
26.395000	29.60	11.5	60	30.4	QP	L1	GND

MEASUREMENT RESULT: "RY0818-1_fin2"

8/18/2015 9:36AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.605000	26.60	10.7	46	19.4	AV	L1	GND
3.800000	23.00	11.1	46	23.0	AV	L1	GND
6.490000	18.50	11.2	50	31.5	AV	L1	GND

MEASUREMENT RESULT: "RY0818-2_fin"

8/18/2015 9:40AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	43.90	10.5	66	22.1	QP	N	GND
3.710000	35.20	11.1	56	20.8	QP	N	GND
6.920000	29.10	11.2	60	30.9	QP	N	GND

MEASUREMENT RESULT: "RY0818-2_fin2"

8/18/2015 9:40AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.605000	26.60	10.7	46	19.4	AV	N	GND
3.700000	23.30	11.1	46	22.7	AV	N	GND
6.680000	18.70	11.2	50	31.3	AV	N	GND

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

The spectral diagrams are attached as below.

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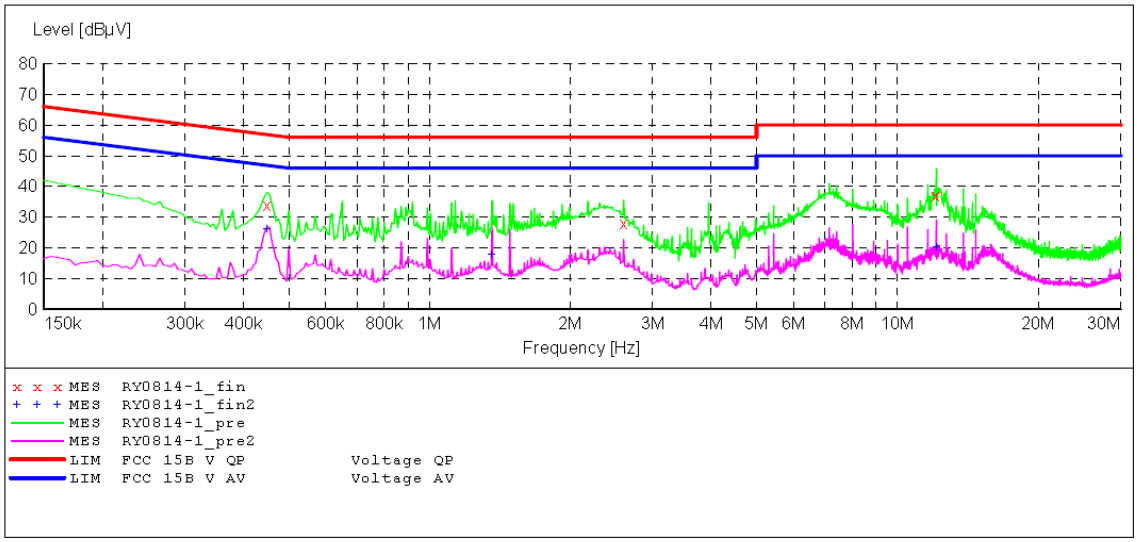
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Access Control Keypad with Proximity Card Reader M/N:DK2852
Manufacturer:         AEI
Operating Condition:  TX
Test Site:            1#Shielding Room
Operator:             Ricky
Test Specification:   L AC 12V
Comment:              Report No.:ATE20151934
Start of Test:         9/5/2015 / 3:59:34PM
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "RY0814-1_fin"

8/14/2015 4:04PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	33.90	10.7	57	23.0	QP	L1	GND
2.600000	27.90	11.0	56	28.1	QP	L1	GND
12.115000	37.00	11.3	60	23.0	QP	L1	GND

MEASUREMENT RESULT: "RY0814-1_fin2"

8/14/2015 4:04PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	26.40	10.7	47	20.5	AV	L1	GND
1.360000	25.10	10.9	46	20.9	AV	L1	GND
12.115000	30.20	11.3	50	19.8	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

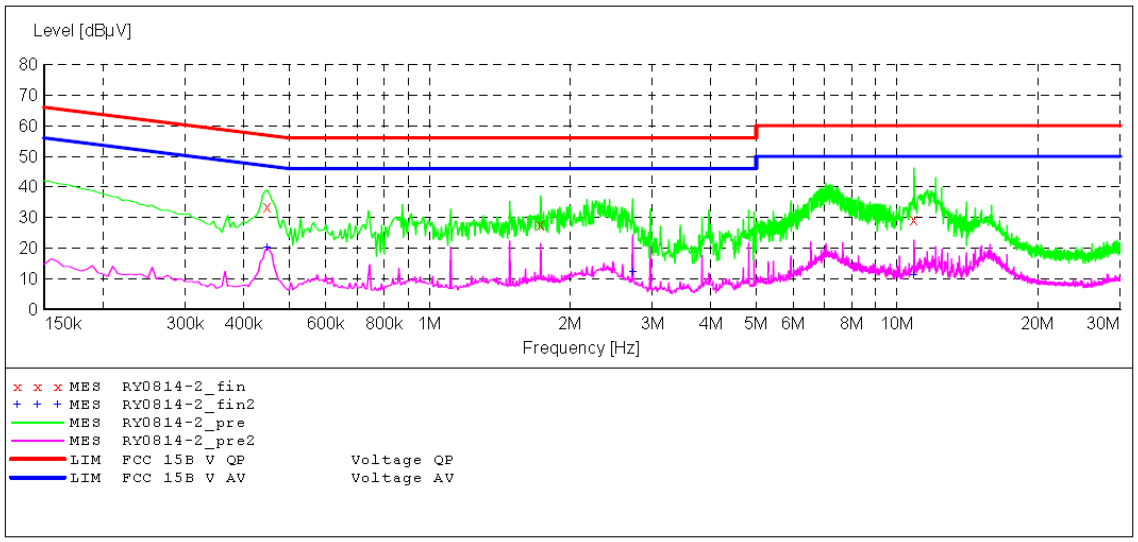
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: RAccess Control Keypad with Proximity Card Reader M/N:DK2852
Manufacturer: AEI
Operating Condition: TX
Test Site: 1#Shielding Room
Operator: Ricky
Test Specification: N AC 12
Comment: Report No.:ATE20151934
Start of Test: 9/5/2015 / 4:04:57PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "RY0814-2_fin"

8/14/2015 4:08PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	33.50	10.7	57	23.4	QP	N	GND
1.730000	27.60	10.9	56	28.4	QP	N	GND
10.885000	29.30	11.3	60	30.7	QP	N	GND

MEASUREMENT RESULT: "RY0814-2_fin2"

8/14/2015 4:08PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	20.30	10.7	47	26.6	AV	N	GND
2.720000	22.30	11.0	46	23.7	AV	N	GND
10.885000	21.30	11.3	50	28.7	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD

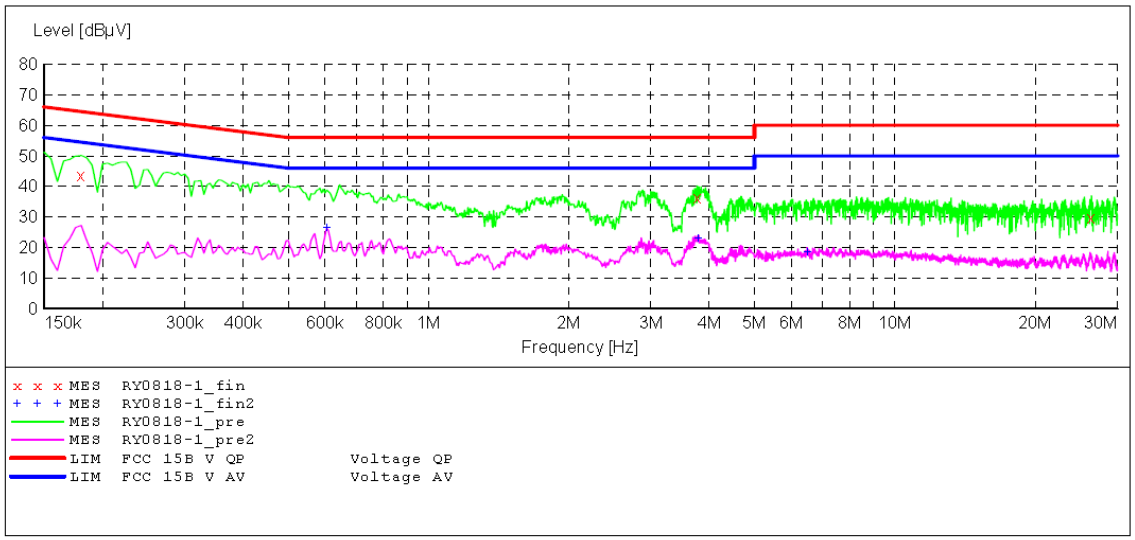
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Access Control Keypad with Proximity Card Reader M/N:DK2852
Manufacturer: AEI
Operating Condition: TX
Test Site: 1#Shielding Room
Operator: Ricky
Test Specification: L AC 24V
Comment: Report No.:ATE20151934
Start of Test: 9/6/2015 / 9:33:49AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "RY0818-1_fin"

8/18/2015 9:36AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	43.50	10.5	65	21.0	QP	L1	GND
3.770000	36.20	11.1	56	19.8	QP	L1	GND
26.395000	29.60	11.5	60	30.4	QP	L1	GND

MEASUREMENT RESULT: "RY0818-1_fin2"

8/18/2015 9:36AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.605000	26.60	10.7	46	19.4	AV	L1	GND
3.800000	23.00	11.1	46	23.0	AV	L1	GND
6.490000	18.50	11.2	50	31.5	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

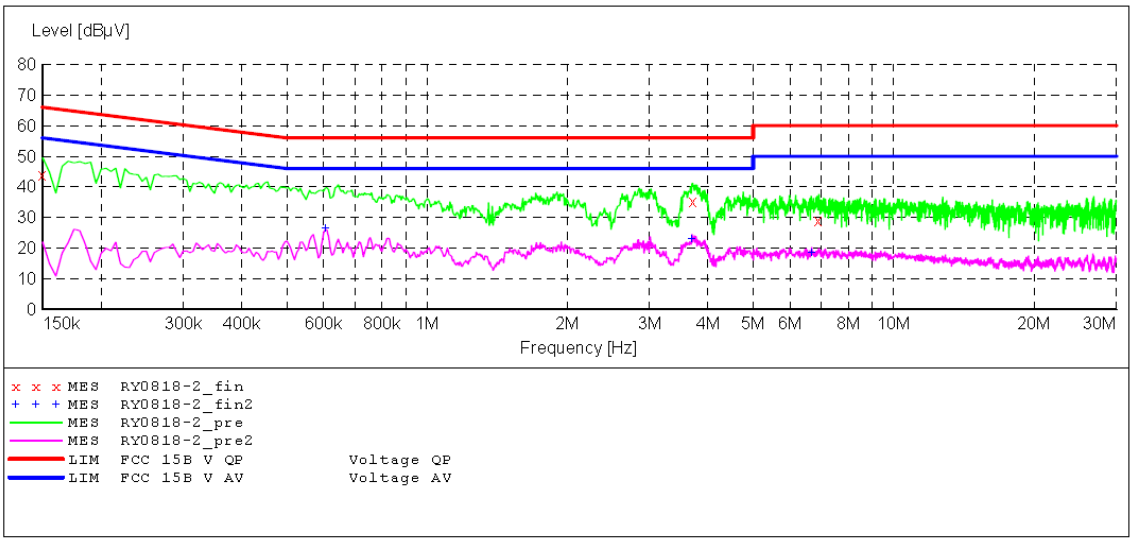
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Access Control Keypad with Proximity Card Reader M/N:DK2852
Manufacturer: AEI
Operating Condition: TX
Test Site: 1#Shielding Room
Operator: Ricky
Test Specification: N AC 24V
Comment: Report No.:ATE20151934
Start of Test: 9/6/2015 / 9:37:41AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "RY0818-2_fin"

8/18/2015 9:40AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	43.90	10.5	66	22.1	QP	N	GND
3.710000	35.20	11.1	56	20.8	QP	N	GND
6.920000	29.10	11.2	60	30.9	QP	N	GND

MEASUREMENT RESULT: "RY0818-2_fin2"

8/18/2015 9:40AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.605000	26.60	10.7	46	19.4	AV	N	GND
3.700000	23.30	11.1	46	22.7	AV	N	GND
6.680000	18.70	11.2	50	31.3	AV	N	GND

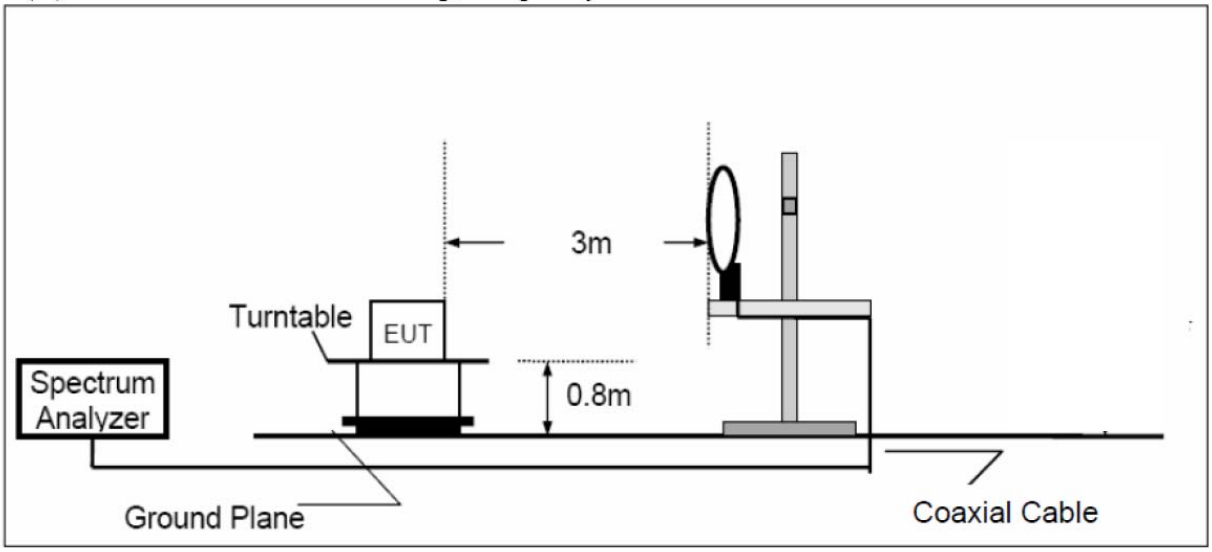
4. RADIATED EMISSION MEASUREMENT

4.1.For Radiated Emission Measurement

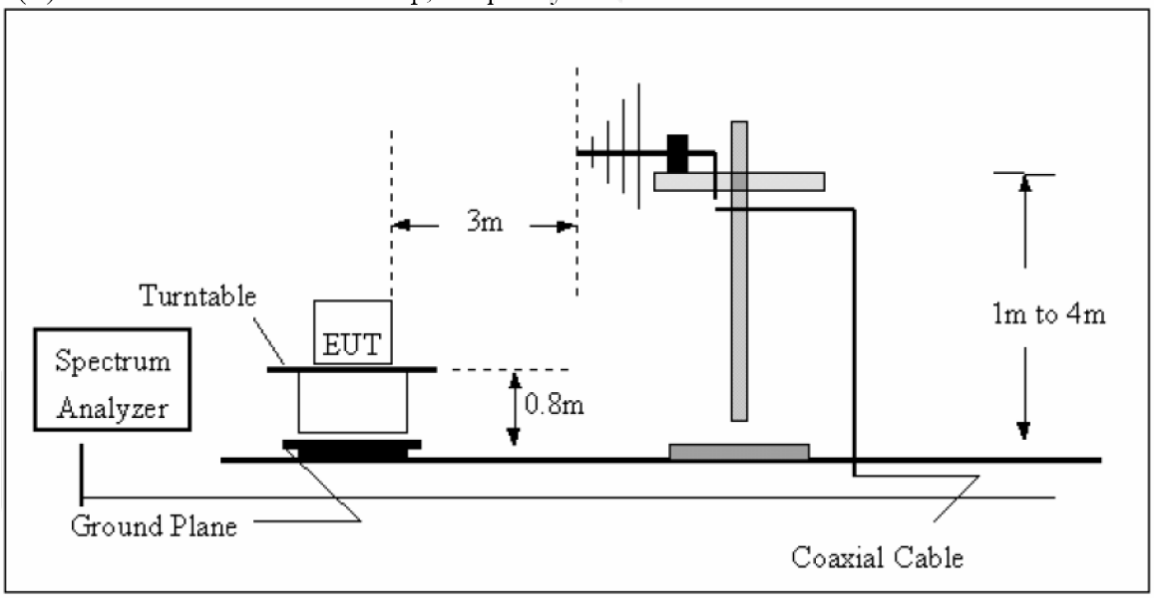
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2015	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan. 11, 2015	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2015	1 Year
4.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2015	1 Year
5.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2015	1 Year
6.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan. 11, 2015	1 Year
12.	Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	Jan. 11, 2015	1 Year
Expanded Uncertainty (9kHz-30MHz): U=3.08dB, k=2 Expanded Uncertainty (30MHz-1000MHz): U=4.42dB, k=2 Expanded Uncertainty (Above 1GHz): U=4.06dB, k=2						

4.2.TEST CONFIGURATION

(A)Radiated Emission Test Set-Up, Frequency below 30MHz

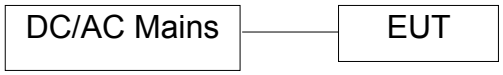


(B)Radiated Emission Test Set-Up, Frequency 30-1000MHz



4.3.Block Diagram of Test Setup

4.3.1. Block diagram of connection between the EUT and simulators



4.4.Radiated Emission Limit

Frequency (MHz)	Field Strength Limitation		Field Strength Limitation at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

Limit: 2400/125=19.2uV/m@300m
Distance Correction Factor=40log(test distance/specific distance)

4.5.EUT Configuration on Measurement

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

4.6.Operating Condition of EUT

4.6.1.Setup the EUT and simulator as shown as Section 4.2.

4.6.2.Turn on the power of all equipment.

4.6.3.Let the EUT work in test mode and measure it.

4.7.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 C63.10:2013 on radiated emission measurement.

From 9kHz to 30MHz at distance 3m The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

From 30MHz to 1000MHz at distance 3m The measuring antenna height varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization.

The final measurement will be performed with an EMI Receiver set to Quasi Peak detector for the frequency bands 9kHz to 90kHz and 110 to 490 kHz where an average detector will be used according to Section 15.209(d)(2).

The final level, expressed in dBuV/m, is arrived at by taking the reading from the EMI receiver(Level dBuV) and adding the antenna correction factor and cable loss factor(Factor dB) to it. This result then has to be compared with the relevant FCC limit.The resolution bandwidth during the measurement is as follows:
9kHz – 150kHz: ResBW:200Hz
150kHz – 30MHz: ResBW:9kHz

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 1000MHz.

4.8.Radiated Emission Noise Measurement Result

PASS.

From 9 kHz to 30MHz (DC 24V (Worse))

Frequency (MHz)	Quasi Peak (dBμV/m)	Azimuth	Polarity (H/V)	Factors (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.125	70.14	158	H	-56.36	105.7	-35.56
2.02	39.55	40	H	-54.15	69.5	-29.95
14.25	38.22	205	H	-53.01	69.5	-31.28
0.125	73.22	190	V	-56.36	105.7	-32.48
3.68	41.29	362	V	-51.27	69.5	-28.21
17.35	33.24	26	V	-51.25	69.5	-36.26

From 9 kHz to 30MHz (AC 24V (Worse))

Frequency (MHz)	Quasi Peak (dBμV/m)	Azimuth	Polarity (H/V)	Factors (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.125	68.14	142	H	-56.77	105.7	-37.56
2.02	40.55	47	H	-54.32	69.5	-28.95
14.25	35.22	205	H	-52.16	69.5	-34.28
0.125	72.14	185	V	-56.01	105.7	-33.56
3.68	42.74	270	V	-53.12	69.5	-26.76
17.35	36.24	164	V	-51.31	69.5	-33.26

Part 15 Section 15.31(f)(2) (9kHz-30MHz)
Limit at 3m=Limit at 300m-40*log(300(m)/3(m))
Limit at 3m=Limit at 30m-40*log(30(m)/3(m))

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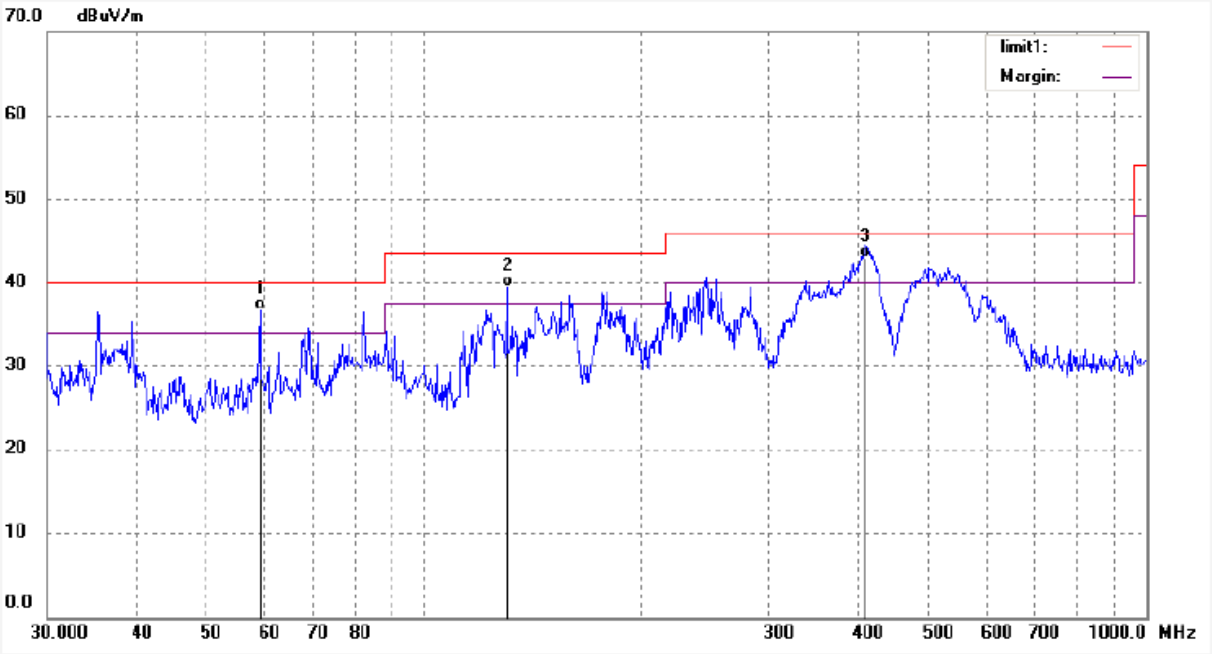
Job No.: ricky2015 #818	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 15/09/14/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/17/50
EUT: Access Control Keypad with Proxini	Engineer Signature: Frank
Mode: TX	Distance: 3m
Model: DK2852	
Manufacturer: AEI	

Note: Report NO.:ATE20151934



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	59.1052	69.31	-32.61	36.70	40.00	-3.30	QP			
2	130.3048	71.47	-32.05	39.42	43.50	-4.08	QP			
3	408.2137	73.85	-30.94	42.91	46.00	-3.09	QP			

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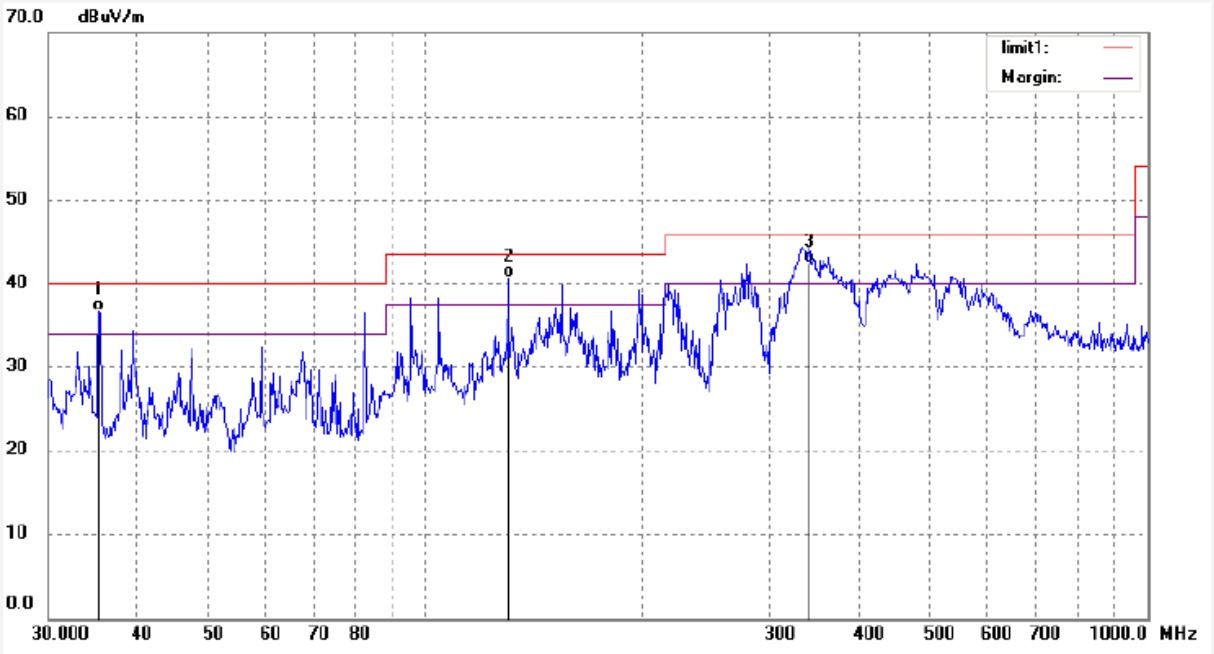
Job No.: ricky2015 #819	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 15/09/14/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/19/47
EUT: Access Control Keypad with Proxini	Engineer Signature: Frank
Mode: TX	Distance: 3m
Model: DK2852	
Manufacturer: AEI	

Note: Report NO.:ATE20151934



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.2625	69.45	-32.80	36.65	40.00	-3.35	QP			
2	130.3048	72.79	-32.05	40.74	43.50	-2.76	QP			
3	340.0473	73.48	-31.05	42.43	46.00	-3.57	QP			

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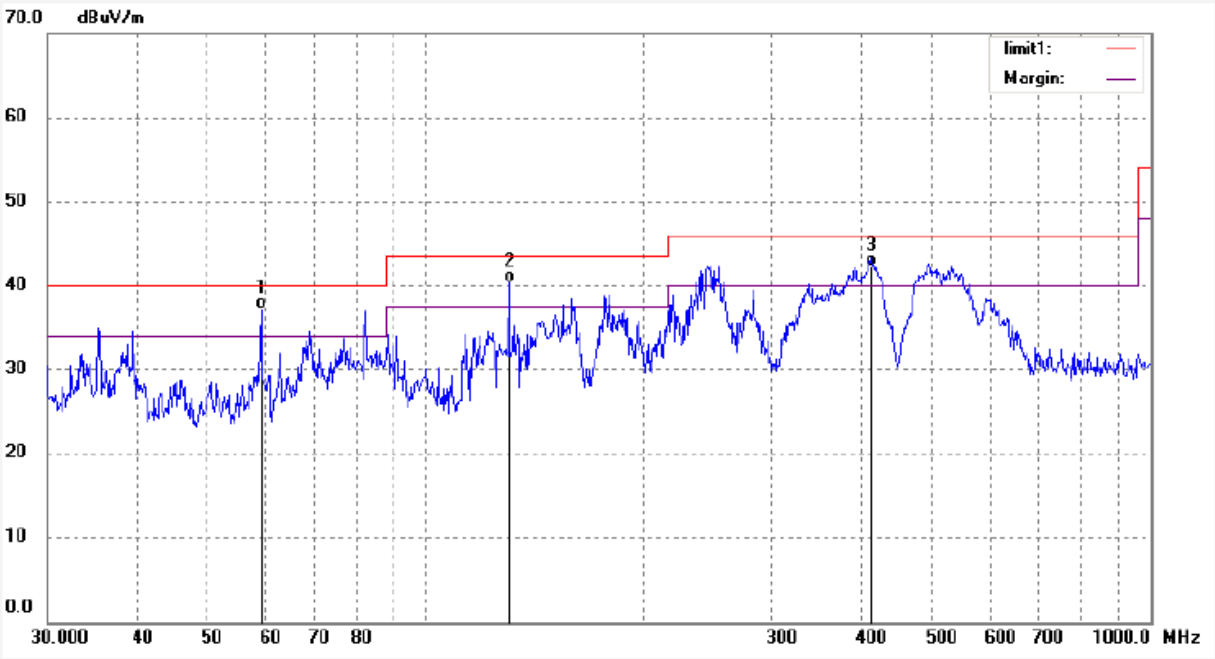
Job No.: ricky2015 #814	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 24V
Test item: Radiation Test	Date: 15/09/14/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/13/22
EUT: Access Control Keypad with Proxini	Engineer Signature: Frank
Mode: TX	Distance: 3m
Model: DK2852	
Manufacturer: AEI	

Note: Report NO.:ATE20151934



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	59.1052	69.81	-32.61	37.20	40.00	-2.80	QP			
2	130.3048	72.47	-32.05	40.42	43.50	-3.08	QP			
3	412.5394	73.18	-30.91	42.27	46.00	-3.73	QP			

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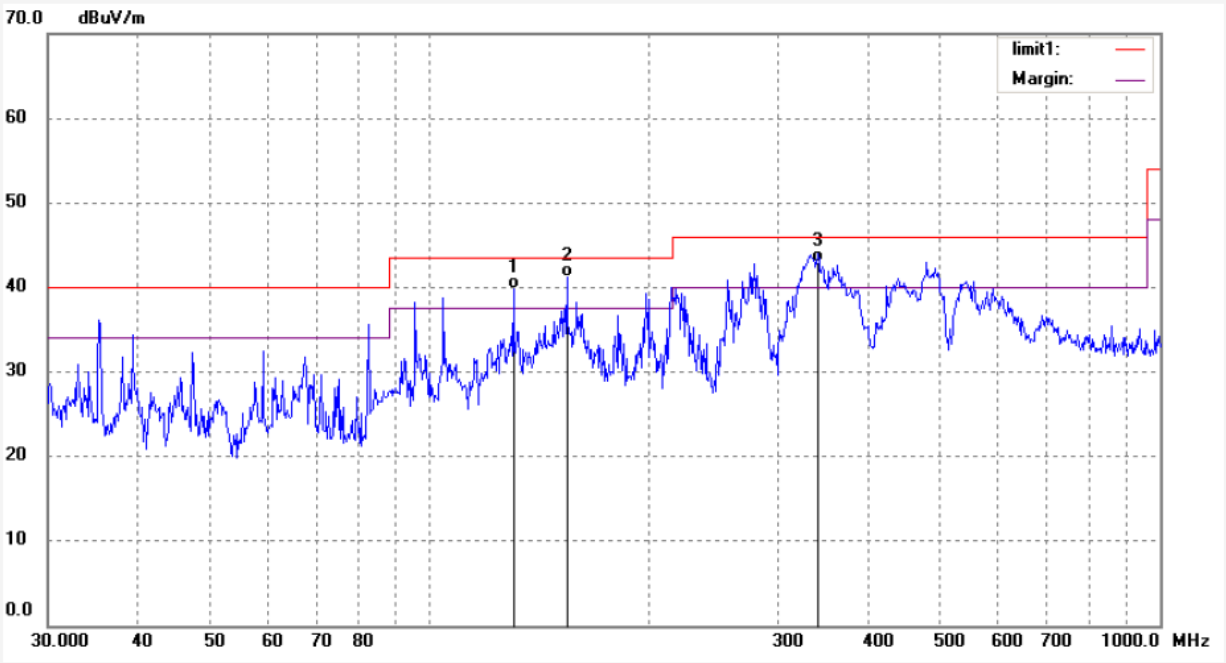
Job No.: ricky2015 #815
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Access Control Keypad with Proxini
Mode: TX
Model: DK2852
Manufacturer: AEI

Polarization: Vertical
Power Source: DC 24V
Date: 15/09/14/
Time: 9/15/55
Engineer Signature: Frank
Distance: 3m

Note: Report NO.:ATE20151934



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	130.3048	71.79	-32.05	39.74	43.50	-3.76	QP			
2	154.2427	73.19	-31.89	41.30	43.50	-2.20	QP			
3	340.0473	73.98	-31.05	42.93	46.00	-3.07	QP			

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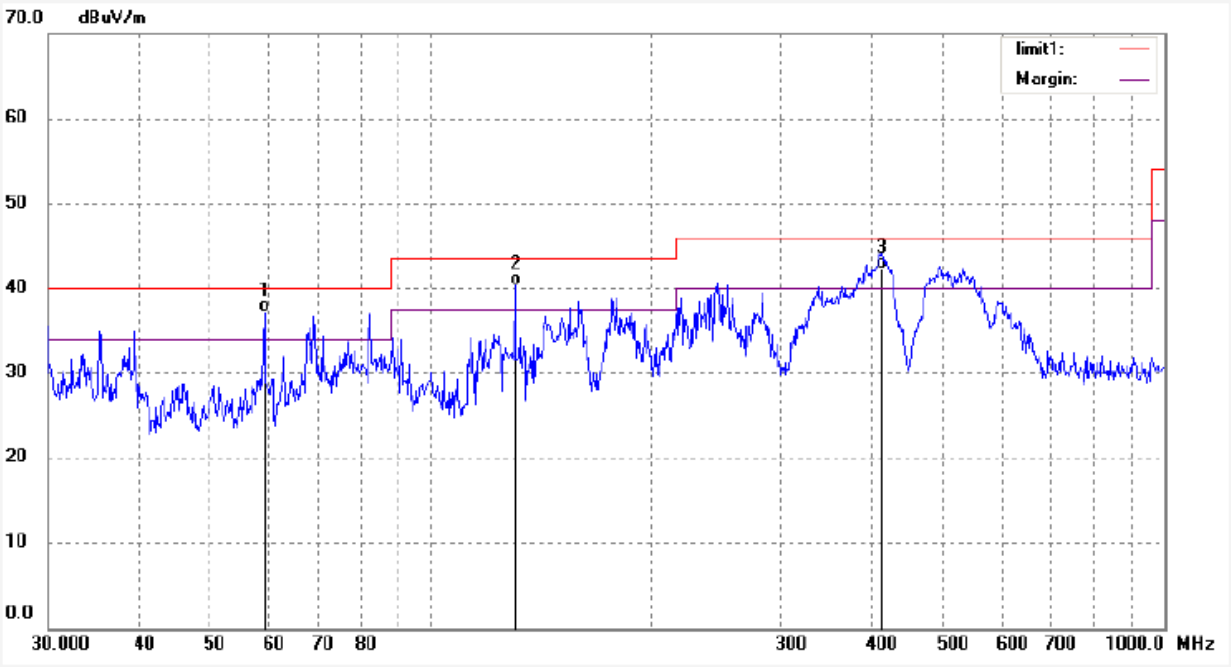
Job No.: Ricky2015 #734	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 12V
Test item: Radiation Test	Date: 15/09/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 12/11/50
EUT: Access Control Keypad with Proxini	Engineer Signature: Frank
Mode: TX	Distance: 3m
Model: DK2852	
Manufacturer: AEI	

Note: Report NO.:ATE20151934



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	59.1052	71.31	-34.11	37.20	40.00	-2.80	QP			
2	130.3048	71.17	-30.75	40.42	43.50	-3.08	QP			
3	412.5395	71.53	-29.26	42.27	46.00	-3.73	QP			

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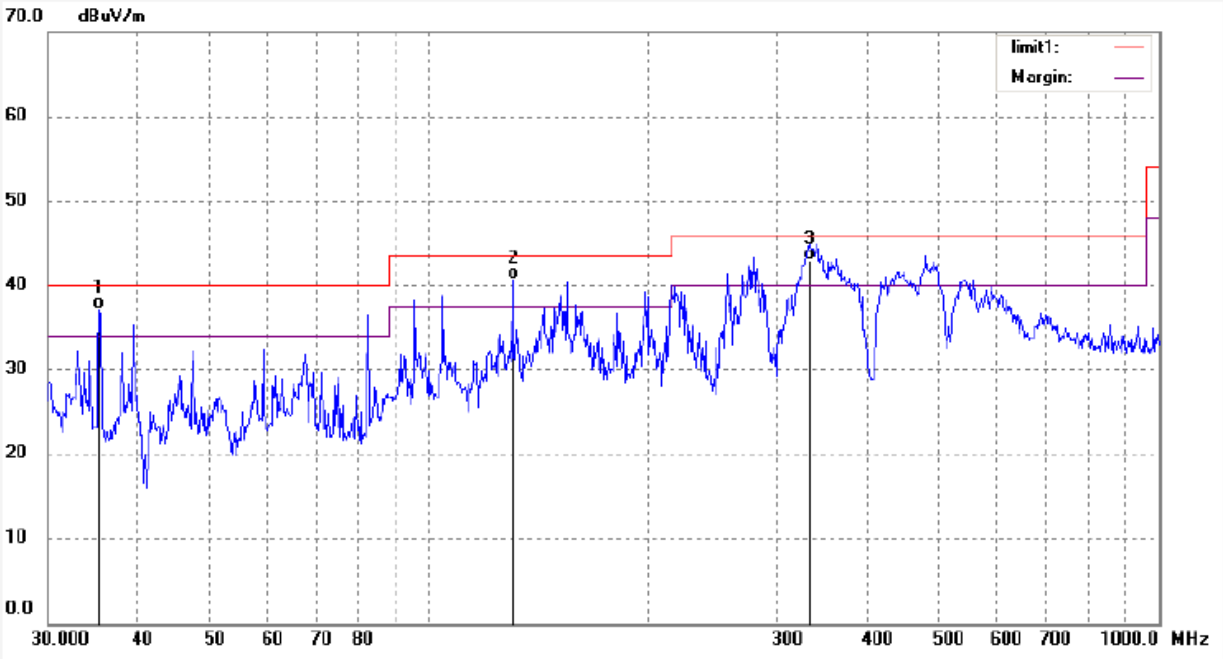
Job No.: Ricky2015 #735
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Access Control Keypad with Proxini
Mode: TX
Model: DK2852
Manufacturer: AEI

Polarization: Vertical
Power Source: AC 12V
Date: 15/09/04/
Time: 12/16/03
Engineer Signature: Frank
Distance: 3m

Note: Report NO.:ATE20151934



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.2626	69.95	-32.80	37.15	40.00	-2.85	QP			
2	130.3048	71.49	-30.75	40.74	43.50	-2.76	QP			
3	331.7858	72.40	-29.49	42.91	46.00	-3.09	QP			

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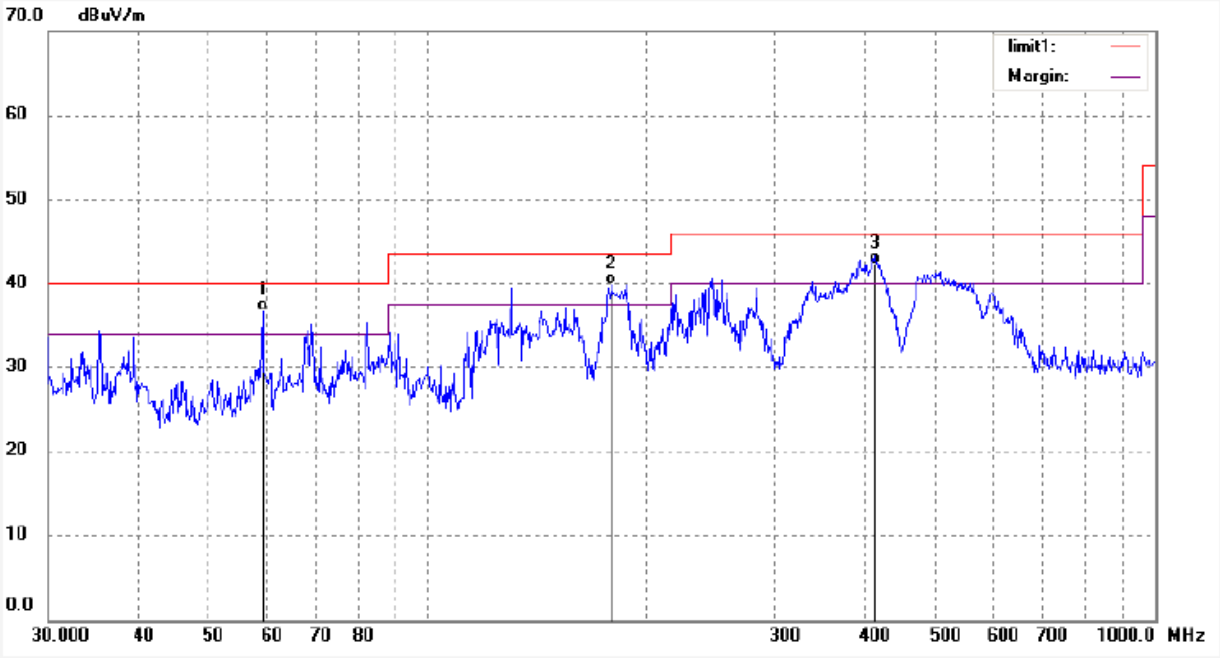
Job No.: ricky2015 #810	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 24V
Test item: Radiation Test	Date: 15/09/14/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/09/15
EUT: Access Control Keypad with Proxini	Engineer Signature: Frank
Mode: TX	Distance: 3m
Model: DK2852	
Manufacturer: AEI	

Note: Report NO.:ATE20151934



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	59.1052	69.31	-32.61	36.70	40.00	-3.30	QP			
2	178.7697	71.63	-31.78	39.85	43.50	-3.65	QP			
3	412.5394	73.18	-30.91	42.27	46.00	-3.73	QP			

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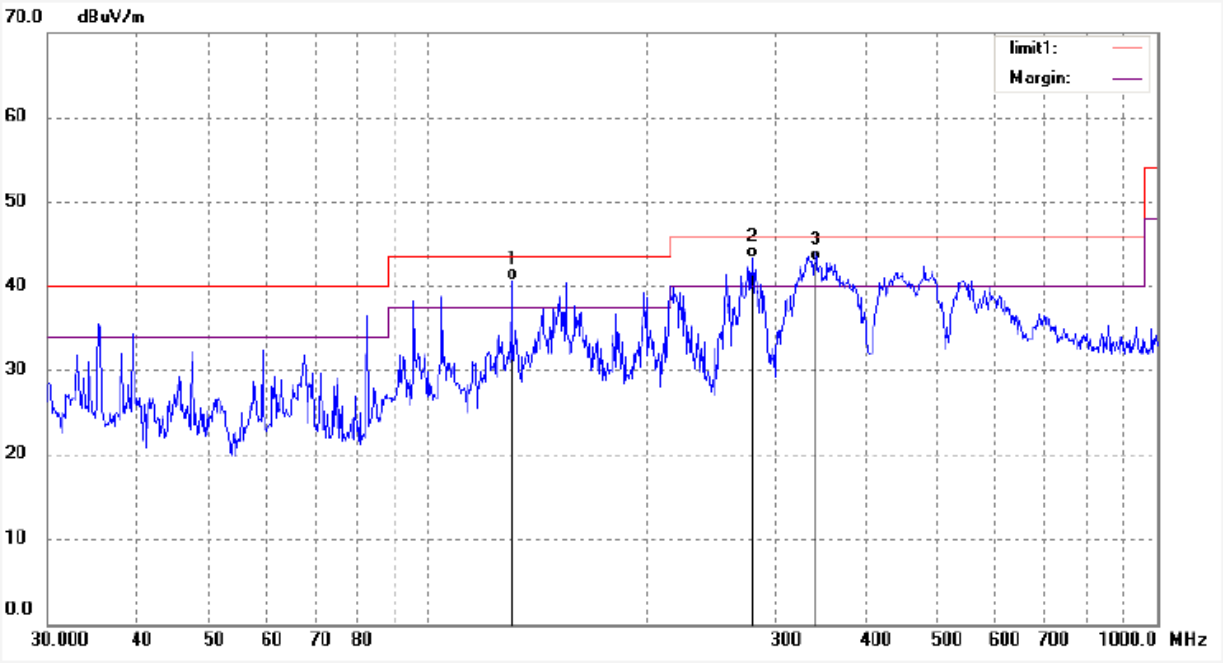
Job No.: ricky2015 #811	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 24V
Test item: Radiation Test	Date: 15/09/14/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/11/21
EUT: Access Control Keypad with Proxini	Engineer Signature: Frank
Mode: TX	Distance: 3m
Model: DK2852	
Manufacturer: AEI	

Note: Report NO.:ATE20151934



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	130.3048	72.79	-32.05	40.74	43.50	-2.76	QP			
2	278.3308	74.77	-31.40	43.37	46.00	-2.63	QP			
3	340.0473	73.98	-31.05	42.93	46.00	-3.07	QP			

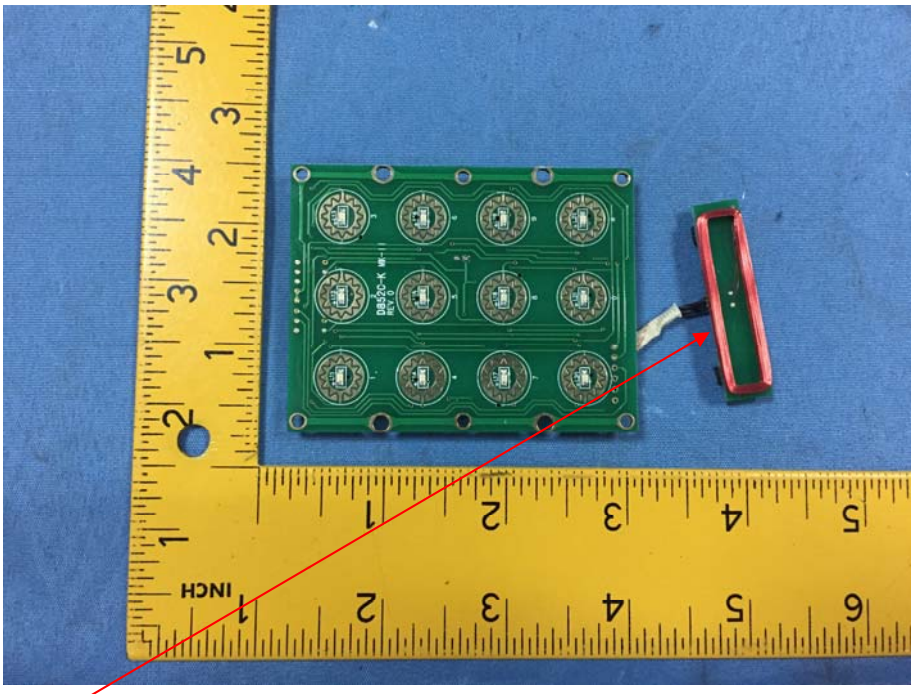
5. ANTENNA REQUIREMENT

5.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna