



STC Test Report

Date: 2014-01-17

Page 1 of 15

No.: HM168906

Applicant (KMA001): K-MARK INDUSTRIAL LIMITED.
FLAT A, 7/F, MAI ON IND. BLDG., 17-21 KUNG YIP
STREET, KWAI CHUNG, HONG KONG.

Manufacturer: K-MARK INDUSTRIAL LIMITED.
FLAT A, 7/F, MAI ON IND. BLDG., 17-21 KUNG YIP
STREET, KWAI CHUNG, HONG KONG.

Description of Sample(s): Submitted sample(s) said to be
Product: Dog Silencer
Brand Name: Good Life LLC
Model Number: DS
FCC ID: VEPGL-SILENCER

Date Sample(s) Received: 2014-01-10

Date Tested: 2014-01-10 to 2014-01-13

Investigation Requested: FCC Part 15 Subpart B

Conclusion(s): The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remark(s): ---

Dr. LEE Kam Chuen,
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

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STC Test Report

Date: 2014-01-17

Page 2 of 15

No.: HM168906

CONTENT:

Cover	Page 1 of 15	
Content	Page 2 of 15	
<u>1.0</u>	<u>General Details</u>	
1.1	Equipment Under Test [EUT] Description of EUT Operation	Page 3 of 15
1.2	Date of Order	Page 3 of 15
1.3	Submitted Sample(s)	Page 3 of 15
1.4	Test Duration	Page 3 of 15
1.5	Country of Origin	Page 3 of 15
<u>2.0</u>	<u>Technical Details</u>	
2.1	Investigations Requested	Page 4 of 15
2.2	Test Standards and Results Summary	Page 4 of 15
<u>3.0</u>	<u>Test Results</u>	
3.1	Emission	Page 5-11 of 15
<u>Appendix A</u>		
	List of Measurement Equipment	Page 12 of 15
<u>Appendix B</u>		
	Photographs	Page 13-15 of 15

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STC Test Report

Date: 2014-01-17

Page 3 of 15

No.: HM168906

1.0 General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: Dog Silencer
Manufacturer: K-MARK INDUSTRIAL LIMITED.
FLAT A, 7/F, MAI ON IND. BLDG., 17-21 KUNG YIP STREET,
KWAI CHUNG, HONG KONG.
Brand Name: Good Life LLC
Model Number: DS
Rating: 12Vd.c.
The AC/DC Adaptor used for the tests was a "Winstar" adaptor: Two pins (Live / Neutral) only adaptor, Model Number: NA-12, Input: 100-120/220-240V a.c., Output: 3-15Vd.c. 1200mA max.

1.1.1 Description of EUT Operation

The Equipment Under Test (EUT) is a K-MARK INDUSTRIAL LIMITED., Dog Silencer.
The test of EUT was conducted during on mode (Receiver – Ultra / Audio).

1.2 Date of Order

2014-01-10

1.3 Submitted Sample(s):

1 sample

1.4 Test Duration

2014-01-10 to 2014-01-13

1.5 Country of Origin

China

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STC Test Report

Date: 2014-01-17

Page 4 of 15

No.: HM168906

2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2012 and ANSI C63.4: 2009 for FCC Certificate.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary					
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result	
				Pass	Failed
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.109	ANSI C63.4:2009	Class B	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.107	ANSI C63.4:2009	Class B	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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STC Test Report

Date: 2014-01-17

Page 5 of 15

No.: HM168906

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30MHz to 6GHz)

Test Requirement: FCC 47CFR 15.109

Test Method: ANSI C63.4: 2009

Test Date: 2014-01-03

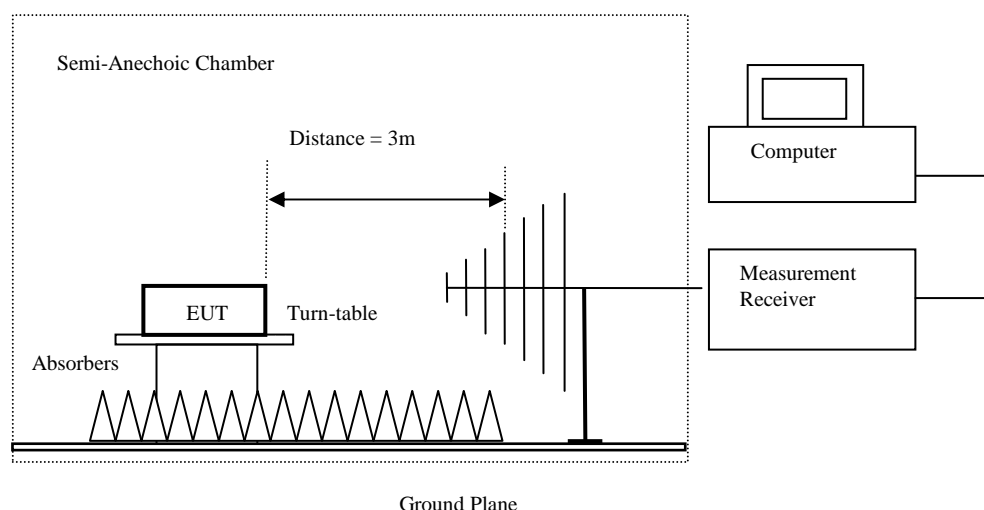
Mode of Operation: On mode (Receiver – Ultra)

Test Method:

The sample was placed 0.8m above the ground plane of Semi-anechoic chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

*: Semi-anechoic chamber located on the G/F of HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

Test Setup:



Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

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STC Test Report

Date: 2014-01-17

Page 6 of 15

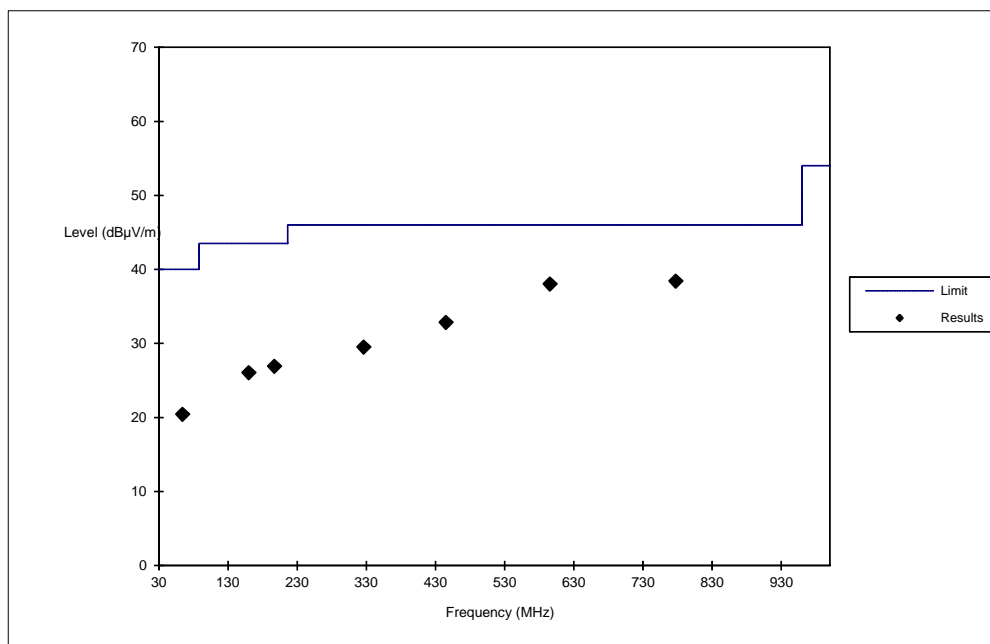
No.: HM168906

Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits	
	[$\mu\text{V}/\text{m}$]	[$\text{dB}\mu\text{V}/\text{m}$]
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above960	500	54.0

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of On mode (Receiver – Ultra) (30MHz – 1GHz): PASS



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STC Test Report

Date: 2014-01-17

Page 7 of 15

No.: HM168906

Results of On mode (Receiver – Ultra) (30MHz – 1GHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB μ V/m	Limit @3m dB μ V/m	Level @3m μ V/m	Limit @3m μ V/m
64.6	Horizontal	20.4	40.0	10.5	100
160.4	Horizontal	26.0	43.5	20.0	150
197.5	Horizontal	26.9	43.5	22.1	150
326.4	Horizontal	29.5	46.0	29.9	200
445.6	Horizontal	32.8	46.0	43.7	200
596.1	Horizontal	38.0	46.0	79.4	200
777.787	Horizontal	38.4	46.0	83.2	200

Results of On mode (Receiver – Ultra) (1MHz – 6GHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB μ V/m	Limit @3m dB μ V/m	Level @3m μ V/m	Limit @3m μ V/m
Emissions detected are more than 20 dB below the FCC Limits					

Remarks:

Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB
(1GHz – 6GHz): 4.02dB
(6GHz – 18GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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STC Test Report

Date: 2014-01-17

Page 8 of 15

No.: HM168906

3.1.2 Conducted Emissions (0.15MHz to 30MHz)

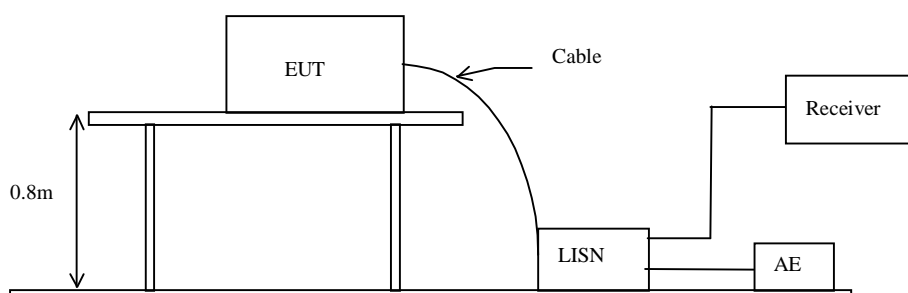
Test Requirement: FCC 47CFR 15.107
Test Method: ANSI C63.4: 2009
Test Date: 2013-12-31

Mode of Operation: On mode (Receiver – Ultra)

Test Method:

The test was performed in accordance with ANSI C63.4: 2009, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



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STC Test Report

Date: 2014-01-17

Page 9 of 15

No.: HM168906

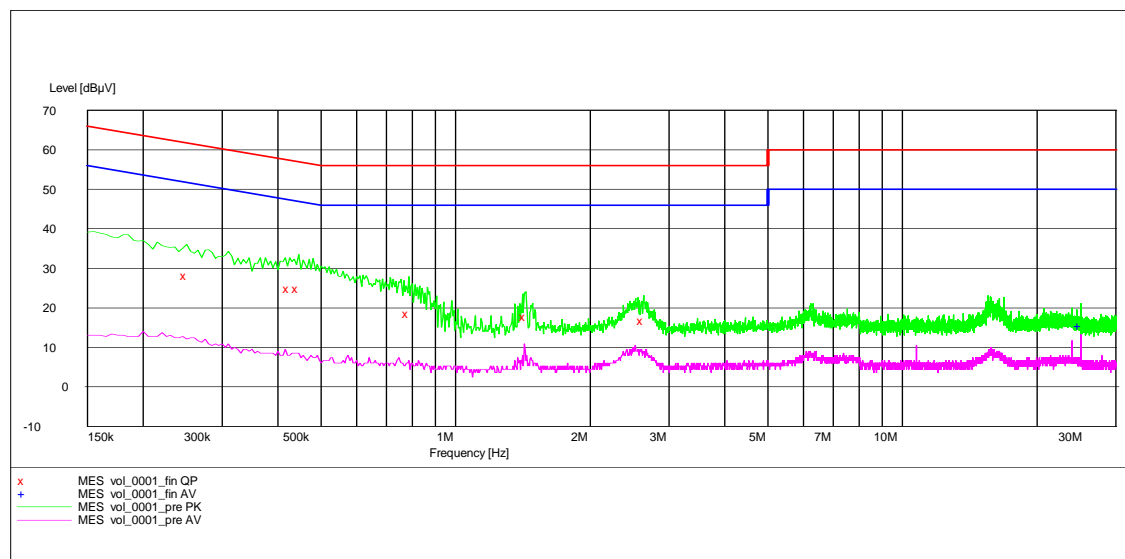
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dB μ V]	Average [dB μ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of On mode (Receiver – Ultra) – Live: PASS



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STC Test Report

Date: 2014-01-17

Page 10 of 15

No.: HM168906

Results of On mode (Receiver – Ultra) – Live: PASS

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	0.250	28.1	62.0	-*-	-*-
Live	0.425	24.9	57.0	-*-	-*-
Live	0.445	24.9	57.0	-*-	-*-
Live	0.785	18.6	56.0	-*-	-*-
Live	1.435	17.7	56.0	-*-	-*-
Live	2.630	16.9	56.0	-*-	-*-
Live	25.060	-*-	-*-	15.5	50.0

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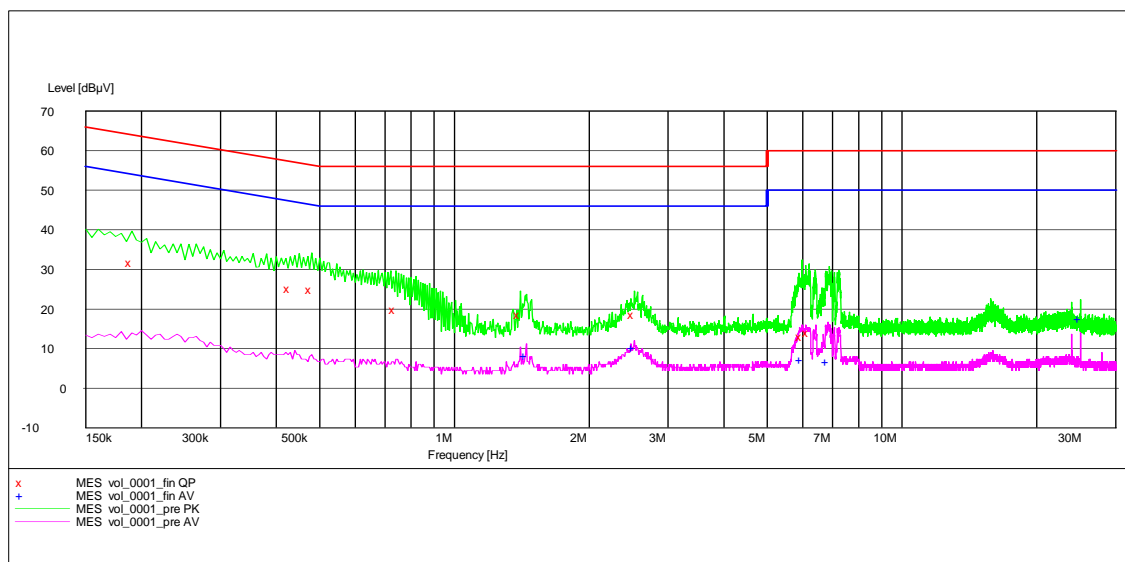
STC Test Report

Date: 2014-01-17

Page 11 of 15

No.: HM168906

Results of On mode (Receiver – Ultra) – Neutral: PASS



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBµV	Limit dBµV	Level dBµV	Limit dBµV
Neutral	0.190	31.8	64.0	-*-	-*-
Neutral	0.430	25.3	57.0	-*-	-*-
Neutral	0.480	24.9	56.0	-*-	-*-
Neutral	0.740	20.0	56.0	-*-	-*-
Neutral	1.405	18.6	56.0	-*-	-*-
Neutral	1.450	-*-	-*-	8.2	46.0
Neutral	2.520	18.6	56.0	10.2	46.0
Neutral	5.980	13.1	60.0	7.3	50.0
Neutral	6.190	14.0	60.0	-*-	-*-
Neutral	6.845	-*-	-*-	6.6	50.0
Neutral	25.060	-*-	-*-	17.6	50.0

Remark:

Calculated measurement uncertainty (150kHz – 30MHz): 3.25dB

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STC Test Report

Date: 2014-01-17

Page 12 of 15

No.: HM168906

LIST OF MEASUREMENT EQUIPMENT

Appendix A

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2012/01/25	2014/01/25
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2013/09/30	2014/09/30
EM174	BICONILOG ANTENNA	EMCO	3142B	1671	2012/05/31	2014/05/31
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2013/05/07	2014/05/07
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2013/09/14	2014/09/14

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM232	LISN	SCHAFFNER	NNB41	04/100082	2013/04/15	2014/05/07
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2013/05/07	2014/05/07
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357-8810.52/54	2013/01/27	2014/01/27
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2012/02/03	2017/02/03

Remarks:-

CM Corrective Maintenance
N/A Not Applicable or Not Available
TBD To Be Determined

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STC Test Report

Date: 2014-01-17

Page 13 of 15

No.: HM168906

Appendix B

Photographs of EUT

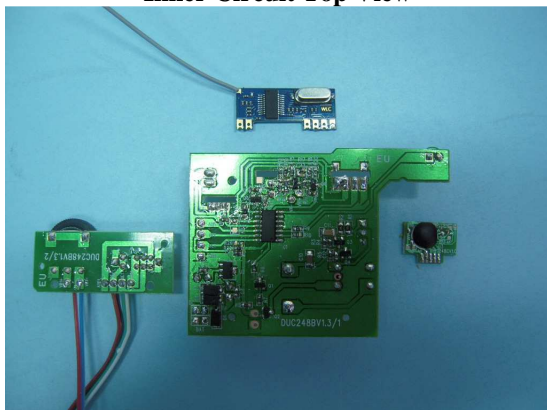
Front View of the product



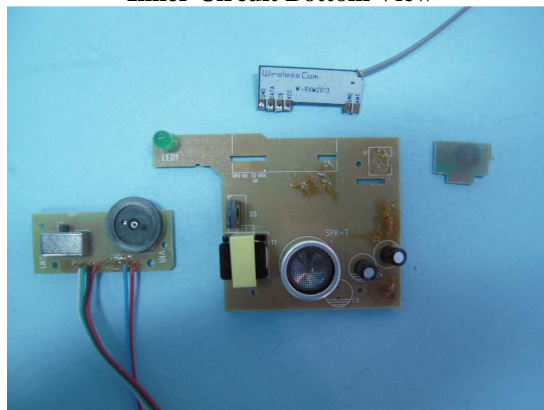
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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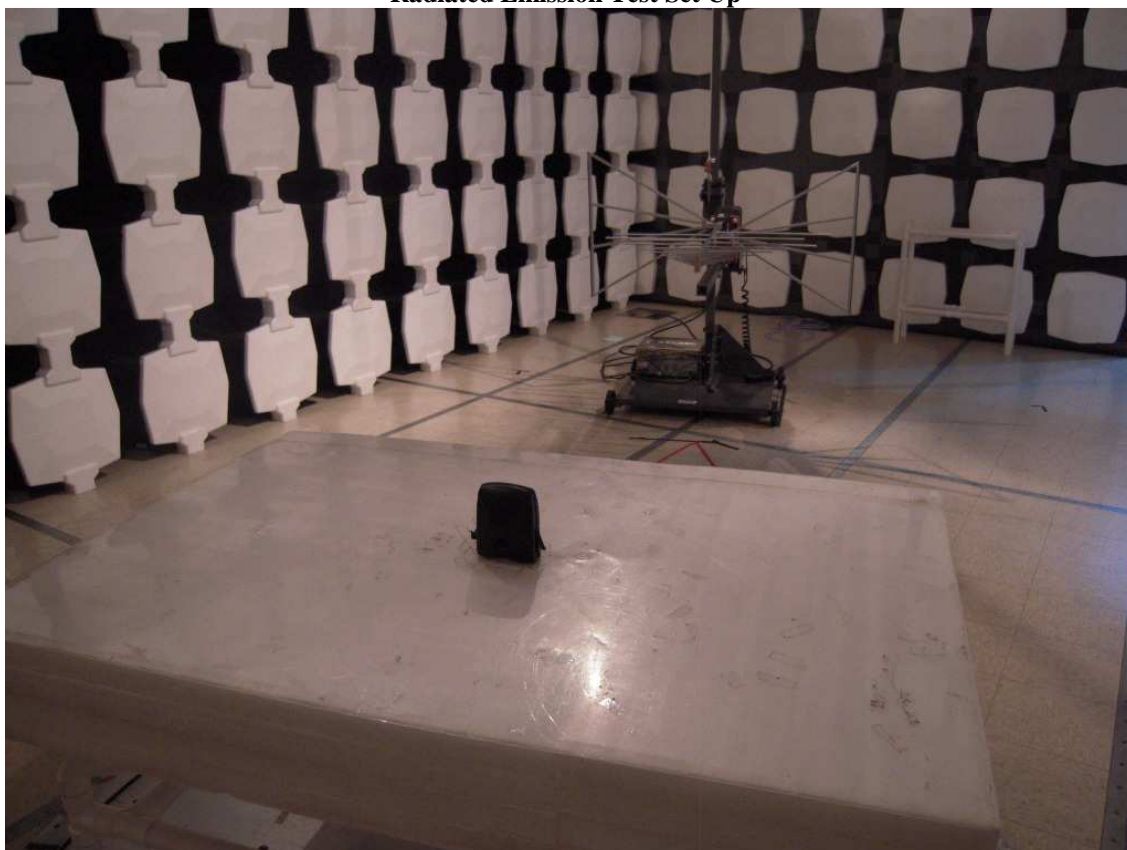
Date: 2014-01-17

Page 14 of 15

No.: HM168906

Photographs of EUT

Radiated Emission Test Set Up



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STC Test Report

Date: 2014-01-17

Page 15 of 15

No.: HM168906

Photographs of EUT

Conducted Emission Test Set Up



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