



STC Test Report

Date : 2012-06-05

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No. : HM167601

Applicant (GAS003): Gatekeeper Systems (HK) Ltd.
Unit 2318-2319, Level 23, Tower 1, Metroplaza No. 223
Hing Fong Road, Kwai Fong, N.T., Hong Kong.

Manufacturer: Gatekeeper Systems (HK) Ltd.
Unit 2318-2319, Level 23, Tower 1, Metroplaza No. 223
Hing Fong Road, Kwai Fong, N.T., Hong Kong.

Description of Sample(s): Submitted sample(s) said to be
Product: BasketKeeper+
Brand Name: Gatekeeper Systems
Model Number: B-9361
FCC ID: W3Z-B9361

Date Sample(s) Received: 2012-05-16

Date Tested: 2012-05-30

Investigation Requested: Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2011 and ANSI C63.4:2009 for FCC Certification.

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.

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong
Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: www.hkstc.org E-mail: hkstc@hkstc.org

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No. : HM167601

1.0 General Details

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

Product: BasketKeeper+
Manufacturer: Gatekeeper Systems (HK) Ltd.
Unit 2318-2319, Level 23, Tower 1, Metroplaza
No. 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong.
Brand Name: Gatekeeper Systems
Model Number: B-9361
Input Voltage: 3Vd.c. ("AAA" size battery × 2)

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is a Gatekeeper Systems (HK) Ltd., BasketKeeper+. The transmission signal is frequency hopping with channel frequency range 2401.4-2478.6MHz during normal use. The EUT was set to fixed frequency test mode by applicant.

1.3 Date of Order

2012-05-16

1.4 Submitted Sample(s):

2 Samples

1.5 Test Duration

2012-05-30

1.6 Country of Origin

China

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2011 Regulations and ANSI C63.4:2009 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

Test Requirement:	FCC 47CFR 15.249
Test Method:	ANSI C63.4:2009
Test Date:	2012-05-30
Mode of Operation:	Tx Mode (20kbps) / Tx Mode (500kbps) / Rx Mode

Test Method:

The sample was placed 0.8m above the ground plane on a standard radiated emission test site. 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. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)

RBW: 10kHz
VBW: 30kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

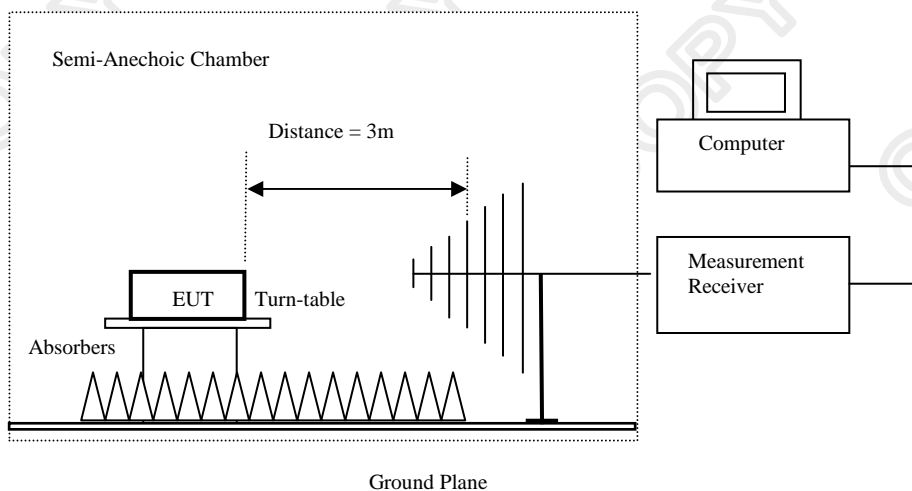
30MHz – 1GHz (QP)

RBW: 120kHz
VBW: 120kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Above 1GHz (Pk & Av)

RBW: 3MHz
VBW: 3MHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Test Setup:



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

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Ch. 2, 20kbps): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2401.4	65.7	27.9	93.6	47,863.0	500,000	Vertical
* 4803.1	17.6	34.5	52.1	402.7	5,000	Vertical
7205.6	2.2	39.9	42.1	127.4	5,000	Vertical
9605.6					5,000	Vertical
* 12007.0					5,000	Vertical
14408.4					5,000	Vertical
16809.8					5,000	Vertical
* 19211.2					5,000	Vertical
21612.6					5,000	Vertical
24014.0					5,000	Vertical

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2401.4	62.8	27.9	90.7	34,276.8	50,000	Vertical
* 4803.1	13.8	34.5	48.3	260.0	500	Vertical
7205.6	-1.6	39.9	38.3	82.2	500	Vertical

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Ch. 126, 20kbps): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2426.2	64.4	27.9	92.3	41,209.8	500,000	Vertical
* 4852.9	18.9	34.5	53.4	467.7	5,000	Vertical
7279.8	2.8	39.7	42.5	133.4	5,000	Vertical
9704.8					5,000	Vertical
* 12131.0					5,000	Vertical
14557.2					5,000	Vertical
16983.4	Emissions detected are more than				5,000	Vertical
* 19409.6	20 dB below the FCC Limits				5,000	Vertical
21835.8					5,000	Vertical
24262.0					5,000	Vertical

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2426.2	63.0	27.9	90.9	35,075.2	50,000	Vertical
* 4852.9	14.6	34.5	49.1	285.1	500	Vertical
7279.8	-0.6	39.7	39.1	90.2	500	Vertical

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty	: 30MHz to 1GHz	5.2dB
	1GHz to 18GHz	5.1dB

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Ch. 254, 20kbps): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2451.8	64.2	27.9	92.1	40,271.7	500,000	Horizontal
* 4956.4	19.2	34.7	53.9	495.5	5,000	Horizontal
7433.9	4.3	39.4	43.7	153.1	5,000	Horizontal
9807.2					5,000	Vertical
* 12259.0					5,000	Vertical
14710.8					5,000	Vertical
17162.6					5,000	Vertical
* 19614.4					5,000	Vertical
22066.2					5,000	Vertical
24518.0					5,000	Vertical

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2451.8	62.4	27.9	90.3	32,734.1	50,000	Horizontal
* 4956.4	14.6	34.7	49.3	291.7	500	Horizontal
7433.9	0.4	39.4	39.8	97.7	500	Horizontal

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Ch. 8, 500kbps): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2403.5	65.7	27.9	93.6	47,863.0	500,000	Horizontal
* 4807.3	17.6	34.5	52.1	402.7	5,000	Horizontal
7211.4	2.2	39.9	42.1	127.4	5,000	Horizontal
9614.0					5,000	Vertical
* 12017.5					5,000	Vertical
14421.0					5,000	Vertical
16824.5					5,000	Vertical
* 19228.0					5,000	Vertical
21631.5					5,000	Vertical
24035.0					5,000	Vertical

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2403.5	62.8	27.9	90.7	34,276.8	50,000	Horizontal
* 4807.3	13.8	34.5	48.3	260.0	500	Horizontal
7211.4	-1.6	39.9	38.3	82.2	500	Horizontal

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Ch. 128, 500kbps): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2441.2	66.0	27.9	93.9	49,545.0	500,000	Horizontal
* 4882.9	19.2	34.5	53.7	484.2	5,000	Horizontal
7324.2	3.4	39.7	43.1	142.9	5,000	Horizontal
9764.8					5,000	Vertical
* 12206.0					5,000	Vertical
14647.2					5,000	Vertical
17088.4					5,000	Vertical
* 19529.6					5,000	Vertical
21970.8					5,000	Vertical
24412.0					5,000	Vertical

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2441.2	62.2	27.9	90.1	31,989.0	50,000	Horizontal
* 4882.9	12.2	34.5	46.7	216.3	500	Horizontal
7324.2	-0.2	39.7	39.5	94.4	500	Horizontal

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Ch. 247, 500kbps): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2478.6	65.2	27.9	93.1	45,185.6	500,000	Horizontal
* 4956.4	17.6	34.7	52.3	412.1	5,000	Horizontal
7433.9	2.7	39.4	42.1	127.4	5,000	Horizontal
9914.4					5,000	Vertical
* 12393.0					5,000	Vertical
14871.6					5,000	Vertical
17350.2					5,000	Vertical
* 19828.8					5,000	Vertical
22307.4					5,000	Vertical
24786.0					5,000	Vertical

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @ 3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @ 3m μ V/m	E-Field Polarity
2478.6	61.0	27.9	88.9	27,861.2	50,000	Horizontal
* 4956.4	11.7	34.7	46.4	208.9	500	Horizontal
7433.9	-0.1	39.4	39.3	92.3	500	Horizontal

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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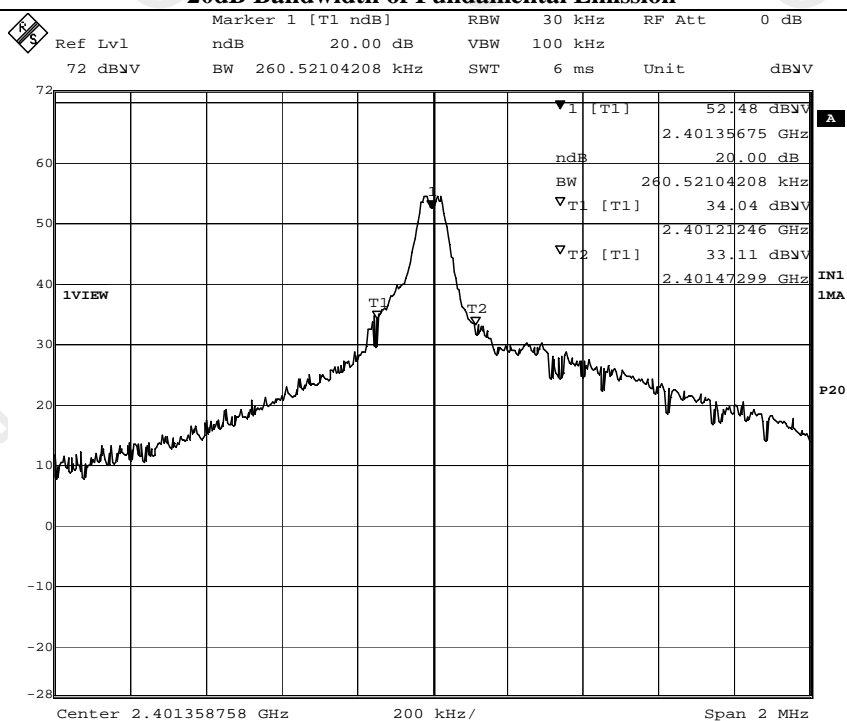
No. : HM167601

Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]
2401.4	260.5

(Ch. 2, 20kbps)

20dB Bandwidth of Fundamental Emission



Date: 31.MAY.2012 12:37:22

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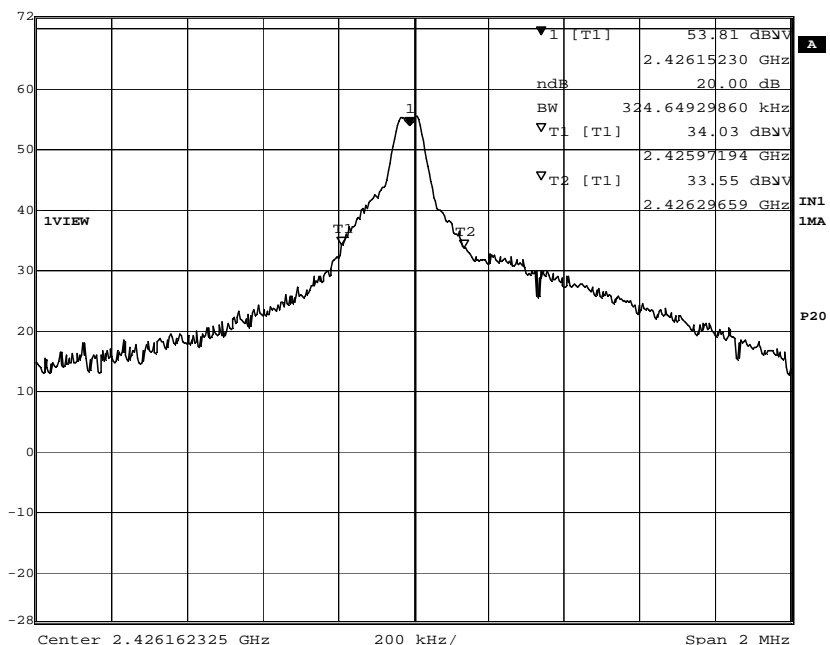
Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]
2426.2	324.6

(Ch. 126, 20kbps)

20dB Bandwidth of Fundamental Emission

Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	0 dB
ndB	20.00 dB	VBW	100 kHz	
72 dBmV	BW	324.64929860 kHz	SWT	6 ms
			Unit	dBmV



Date: 31.MAY.2012 12:30:54

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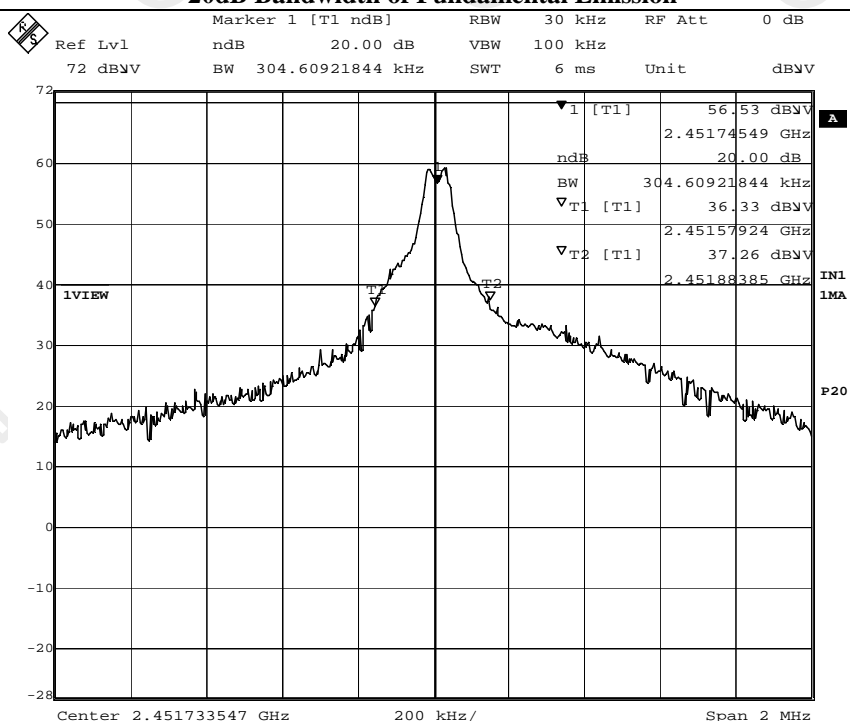
No. : HM167601

Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]
2451.8	304.6

(Ch. 254, 20kbps)

20dB Bandwidth of Fundamental Emission



Date: 31.MAY.2012 13:08:48

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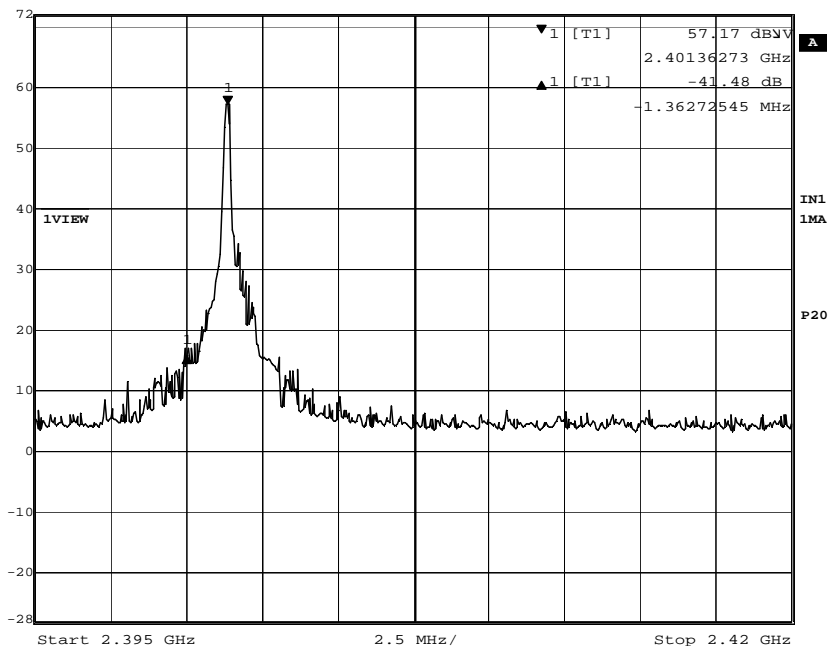
Band Edge Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2401.4 – Lowest Fundamental	41.5

(20kbps)

41.5dB Reduction at Lower Band Edge

	Delta 1 [T1]	RBW	100 kHz	RF Att	0 dB
Ref Lvl	-41.48 dB	VBW	100 kHz		
72 dBV	-1.36272545 MHz	SWT	6.5 ms	Unit	dBV



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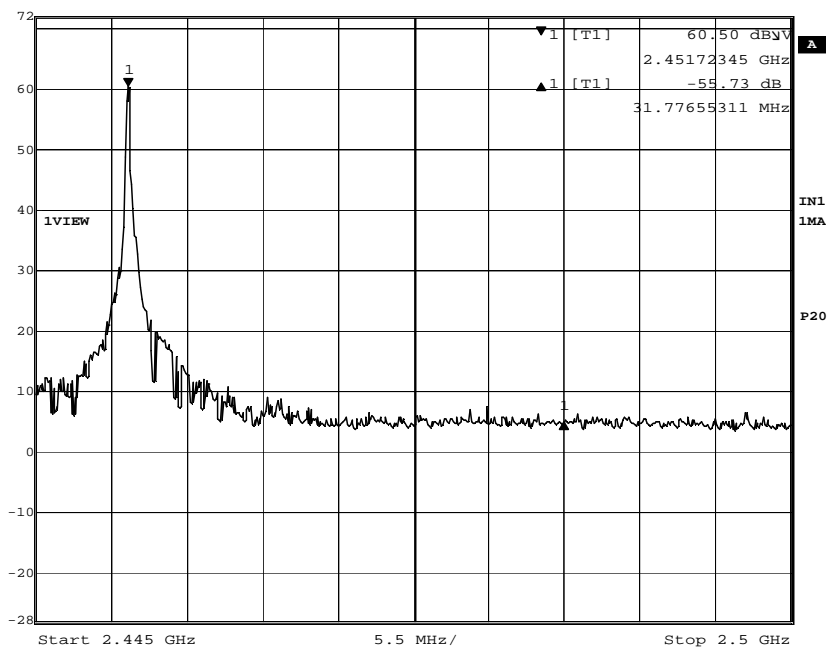
Band Edge Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2451.8 - Highest Fundamental	55.7

(20kbps)

55.7dB Reduction at Upper Band Edge

	Delta 1 [T1]	RBW	100 kHz	RF Att	0 dB
Ref Lvl	-55.73 dB	VBW	100 kHz		
72 dBV	31.77655311 MHz	SWT	14 ms	Unit	dBV



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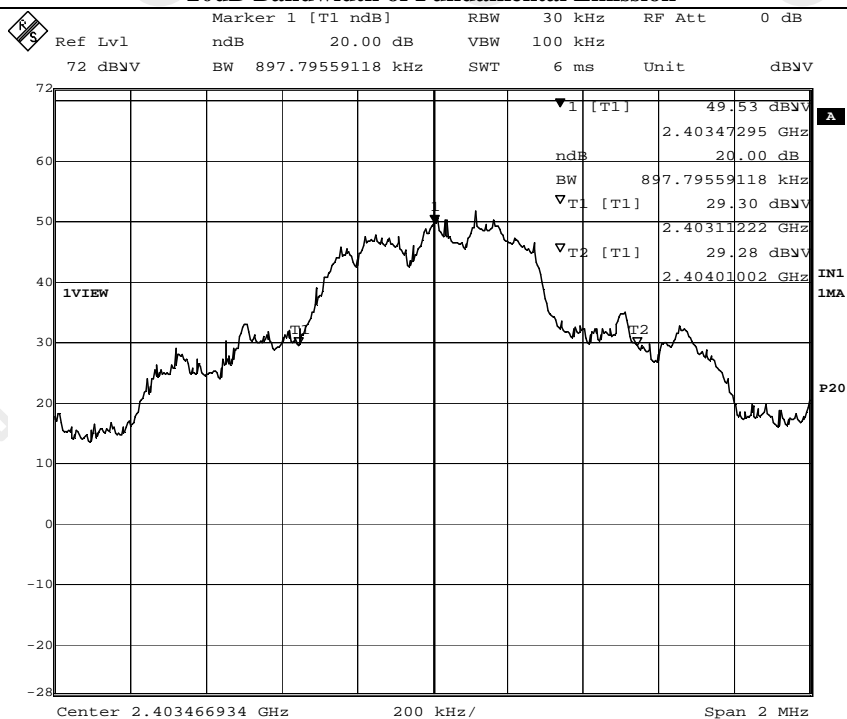
No. : HM167601

Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]
2403.5	897.8

(Ch.8, 500kbps)

20dB Bandwidth of Fundamental Emission



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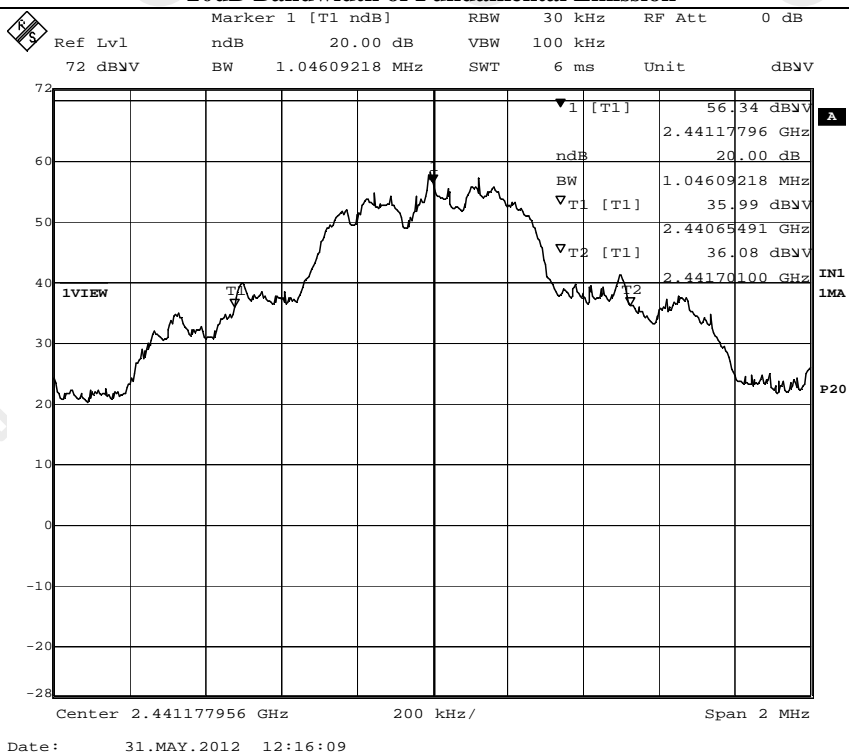
No. : HM167601

Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2441.2	1.05

(Ch. 128, 500kbps)

20dB Bandwidth of Fundamental Emission



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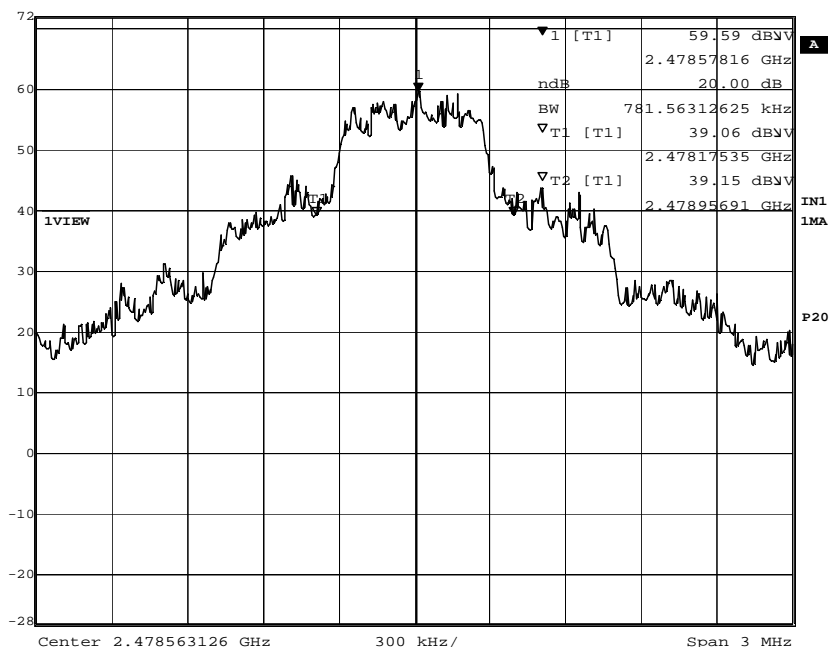
Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]
2478.6	781.6

(Ch. 247, 500kbps)

20dB Bandwidth of Fundamental Emission

Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	0 dB
ndB	20.00 dB	VBW	100 kHz	
72 dBV	BW	781.56312625 kHz	SWT	8.5 ms
			Unit	dBV



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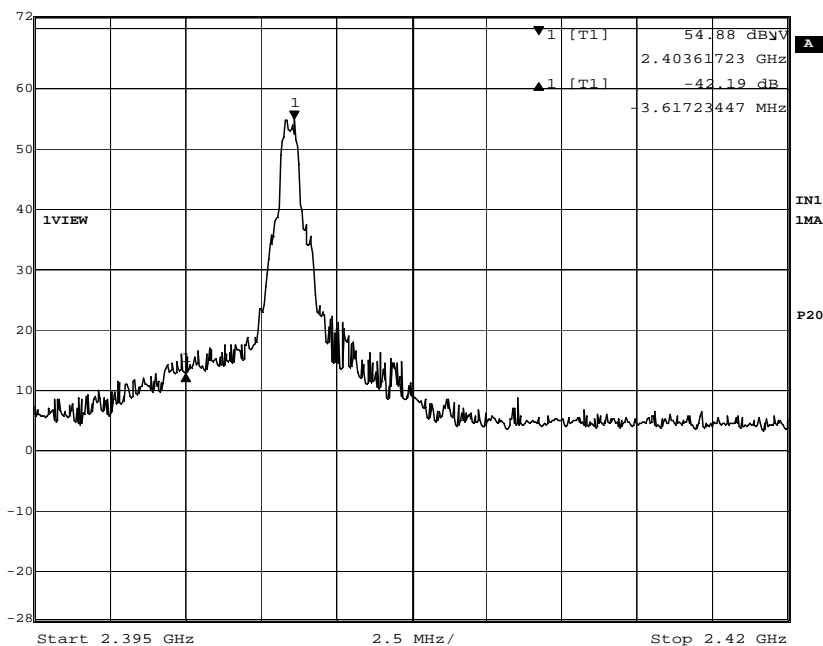
Band Edge Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2403.5 – Lowest Fundamental	42.2

(500kbps)

42.2dB Reduction at Lower Band Edge

Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	0 dB
72 dBV	-42.19 dB	VBW	100 kHz		
	-3.61723447 MHz	SWT	6.5 ms	Unit	dBV



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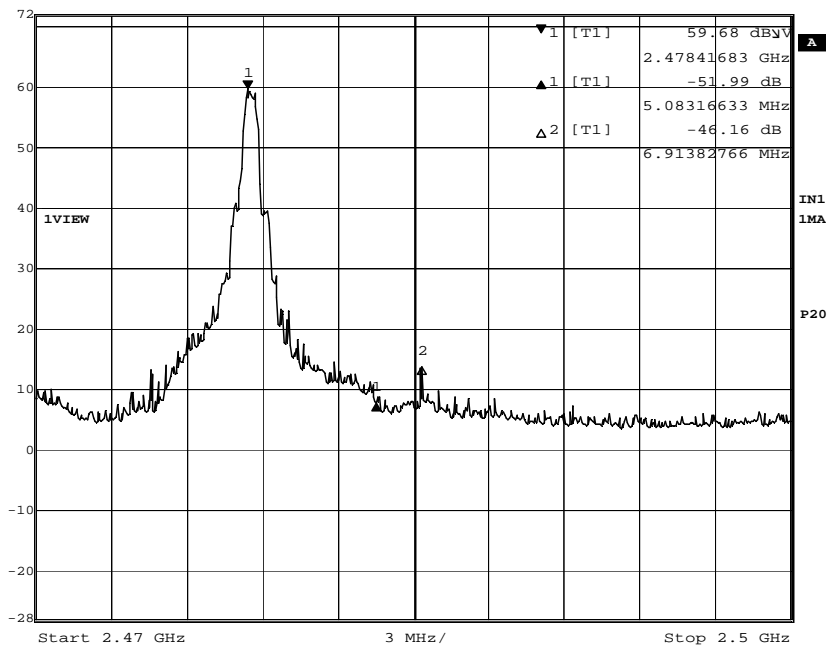
Band Edge Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2478.6 - Highest Fundamental	52

(500kbps)

52dB Reduction at Upper Band Edge

Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	0 dB
72 dBV	-51.99 dB	VBW	100 kHz		
	5.08316633 MHz	SWT	7.5 ms	Unit	dBV



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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 Tx mode (20kbps) (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Results of Tx mode (20kbps) (30MHz – 25GHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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 Tx mode (500kbps) (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Results of Tx mode (500kbps) (30MHz – 25GHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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.

Result of Rx Mode (9kHz – 30GHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Results of Rx mode (30MHz – 25GHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

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Appendix A

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM276	Broadband Horn Antenna	A-INFOMW	JXTXLB-10180-SF	J2031090903007	2010/08/21	2013/08/21
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-Linggren	FACT-3	--	2011/10/25	2012/10/25
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	2011/03/01	2013/03/01
EM229	EMI Test Receiver	R&S	ESIB40	100248	2012/05/03	2013/05/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2010/09/07	2012/09/07

Remarks:-

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

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Appendix B

Photographs of EUT

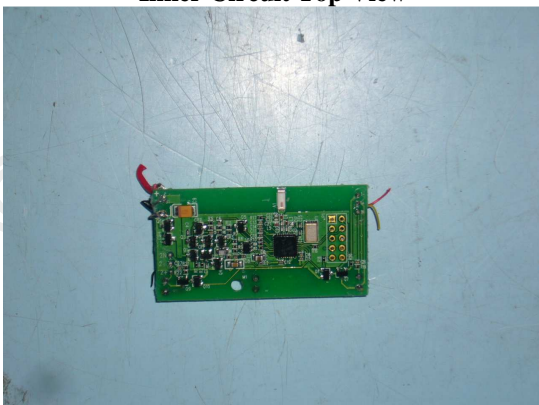
Front View of the product



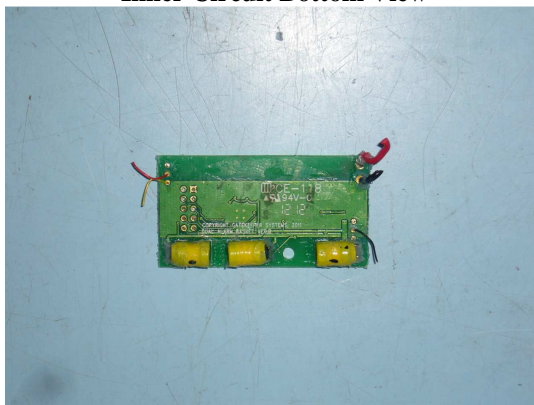
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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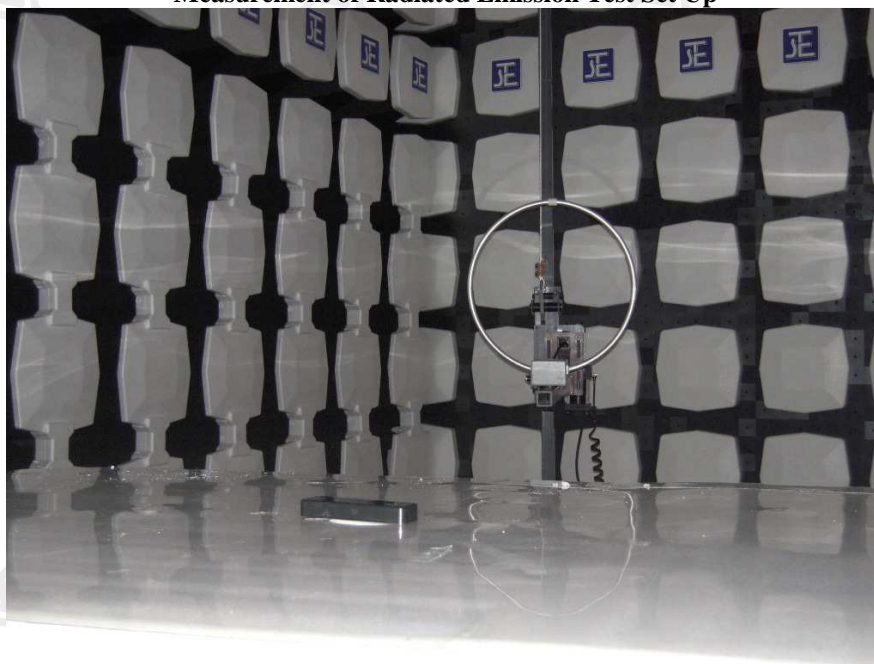
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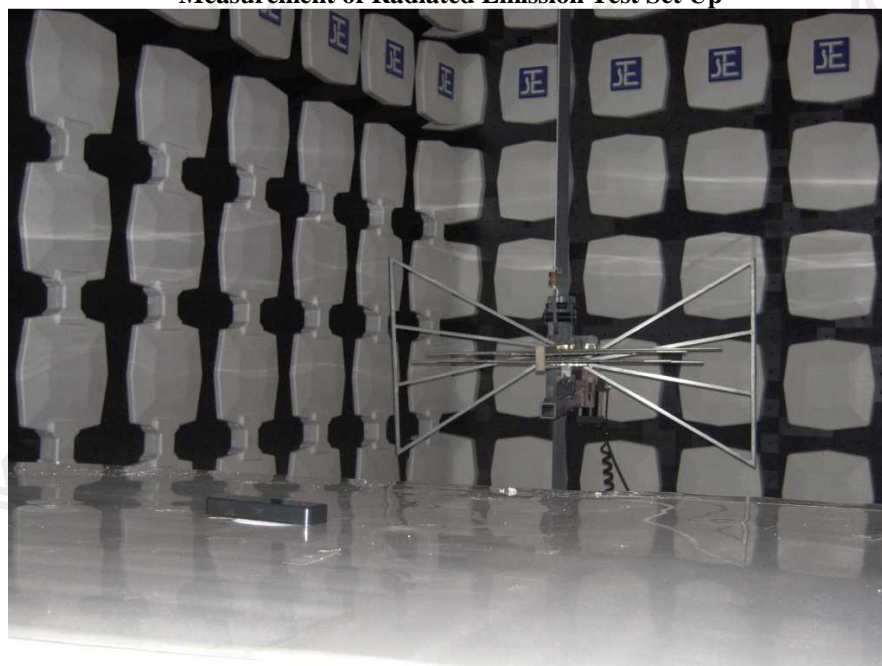
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



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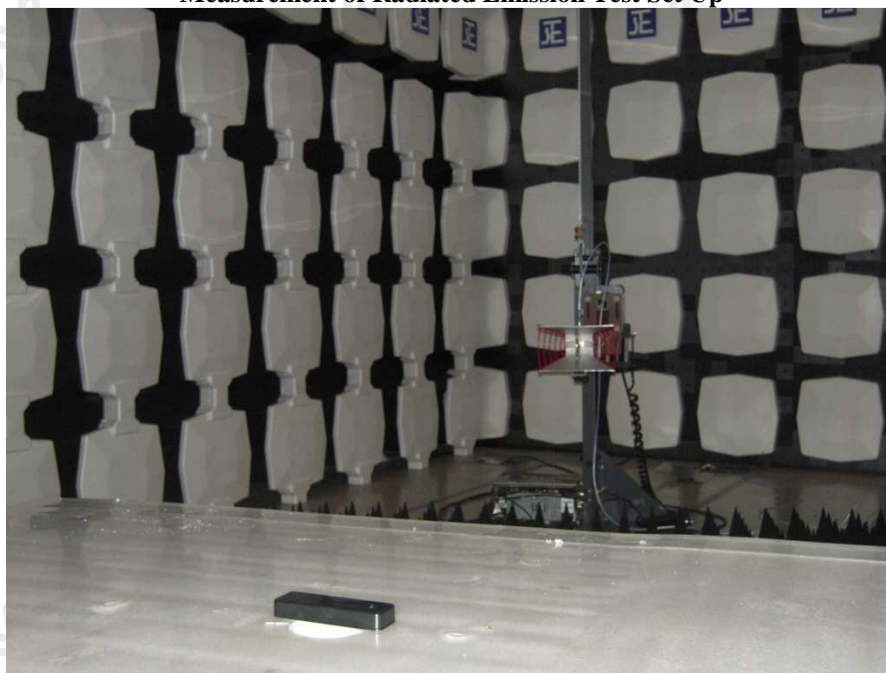
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Measurement of Radiated Emission Test Set Up



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