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No. : HM167573

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: CartKey 2

Brand Name: Gatekeeper Systems

Model Number: K-9805 FCC ID: W3Z-K9805

Date Sample(s) Received: 2012-02-02

Date Tested: 2012-03-19 to 2012-03-22

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



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1.0 General Details

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

Product: CartKey 2

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: K-9805

Input Voltage: 3Vd.c. (Li-MH battery \times 1) or 3Vd.c. (Li-MH battery \times 2)

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is a Gatekeeper Systems (HK) Ltd., CartKey 2. The transmission transmitter operating in the 2.4GHz ISM frequency band. The EUT continues to transmit while Key is being pressed. Modulation by digital data; and type is MSK/FSK modulation.

1.3 Date of Order

2012-02-02

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2012-03-19 to 2012-03-22

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 /	To	est Resi	ılt		
			Severity	Pass	Fail	N/A		
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2009	N/A					
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	\boxtimes				

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: 2012-03-19

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

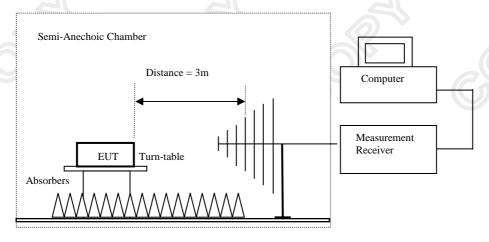
Above 1GHz (Pk & Av) RBW: 3MHz

VBW: 3MHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

Test Setup:



Ground Plane

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	Field Strength of Fundamental Emission	Field Strength of Harmonics Emission
[MHz]	[microvolts/meter]	[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	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	$dB\mu V/m$	dBμV/m	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
2401.4	69.3	27.9	97.2	72,443.6	500,000	Horizontal
* 4802.0	19.8	34.7	54.5	530.9	5,000	Horizontal
7204.0	14.4	39.7	54.1	507.0	5,000	Horizontal
9605.6					5,000	Vertical
* 12007.0					5,000	Vertical
14408.4					5,000	Vertical
16809.8	E	missions dete	cted are more	than	5,000	Vertical
* 19211.2		20 dB below the FCC Limits			5,000	Vertical
21612.6						Vertical
24014.0					5,000	Vertical

	Field Strength of Fundamental Emissions						
		A	Average Valu	e			
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	dBμV/m	dBμV/m	$dB\mu V/m$	$\mu V/m$	$\mu V/m$		
2401.4	50.1	27.9	78.0	7,943.3	50,000	Horizontal	
* 4802.0	3.6	34.7	38.3	82.2	500	Horizontal	
7204.0	0.4	39.7	40.1	101.2	500	Horizontal	

Remarks:

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

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

^{*:} Denotes restricted band of operation.



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No. : HM167573

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

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

Results of Tx mode (Ch. 200, 20kbps): Pass

MCSUITS OF TAIL	Results of 1x mode (Cn. 200, 20kbps): Pass						
	Field Strength of Fundamental Emissions						
			Peak Value				
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	$dB\mu V/m$	dBμV/m	dBμV/m	$\mu V/m$	$\mu V/m$		
2441.2	62.4	27.9	90.3	32,734.1	500,000	Horizontal	
* 4882.4	22.0	34.5	56.5	668.3	5,000	Horizontal	
7324.2	14.2	39.7	53.9	495.5	5,000	Horizontal	
9764.8			-		5,000	Vertical	
* 12206.0					5,000	Vertical	
14647.2					5,000	Vertical	
17088.4	Е	Emissions detected are more than			5,000	Vertical	
* 19529.6		20 dB below the FCC Limits			5,000	Vertical	
21970.8					5,000	Vertical	
24412.0					5,000	Vertical	

	Field Strength of Fundamental Emissions					
		A	Average Valu	ie		
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
2441.2	43.1	27.9	71.0	3,548.1	50,000	Horizontal
* 4882.4	6.2	34.5	40.7	108.4	500	Horizontal
7324.2	0.2	39.7	39.9	98.9	500	Horizontal

Remarks:

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

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

^{*:} Denotes restricted band of operation.



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

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

Results of Tx mode (Ch. 395, 20kbps): Pass

Results of TAT	Results of 1x mode (Cli. 595, 20kbps): Pass						
	Field Strength of Fundamental Emissions						
			Peak Value				
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	$dB\muV/m$	$dB\mu V/m$	dBμV/m	$\mu V/m$	$\mu V/m$		
2480.0	65.1	27.9	93.0	44,668.4	500,000	Horizontal	
* 4956.2	20.7	34.7	55.4	588.8	5,000	Horizontal	
7440.0	18.2	39.4	57.6	758.6	5,000	Horizontal	
9920.0		•	-	-	5,000	Vertical	
* 12400.0					5,000	Vertical	
14880.0					5,000	Vertical	
17360.0	Е	Emissions detected are more than			5,000	Vertical	
* 19840.0		20 dB below the FCC Limits			5,000	Vertical	
22320.0					5,000	Vertical	
24800.0					5,000	Vertical	

	Field Strength of Fundamental Emissions						
		A	Average Valu	ie			
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$		
2480.0	45.9	27.9	73.8	4,897.8	50,000	Horizontal	
* 4956.2	7.1	34.7	41.8	123.0	500	Horizontal	
7440.0	0.3	39.4	39.7	96.6	500	Horizontal	

Remarks:

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

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

^{*:} Denotes restricted band of operation.



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

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

Results of Tx mode (Ch. 5, 500kbps): Pass

Mesuits of TA II	Results of 1x mode (Cn. 5, 500kbps): Pass					
	Field Strength of Fundamental Emissions					
	Peak Value					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	dBμV/m	dBμV/m	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
2402.6	65.2	27.9	93.1	45,185.6	500,000	Horizontal
* 4805.2	24.1	34.5	58.6	851.1	5,000	Vertical
7207.8	15.3	39.9	55.2	575.4	5,000	Horizontal
9610.4			-		5,000	Vertical
* 12013.0					5,000	Vertical
14415.6	1				5,000	Vertical
16818.2	Emissions detected are more than 5,000 Vertical			Vertical		
* 19220.8	20 dB below the FCC Limits 5,000 Vertical					
21623.4	5,000 Vertical					
24026.0					5,000	Vertical

Field Strength of Fundamental Emissions						
	Average Value					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
2402.6	64.2	27.9	92.1	40,271.7	50,000	Horizontal
* 4805.2	10.0	34.5	44.5	167.9	500	Vertical
7207.8	8.1	39.9	48.0	251.2	500	Horizontal

Remarks:

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

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

^{*:} Denotes restricted band of operation.



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

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

Results of Tx mode (Ch. 117, 500kbps): Pass

Results of 1x n	Results of Tx mode (Ch. 117, 500kbps): Pass					
	Field Strength of Fundamental Emissions					
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
2437.8	64.1	27.9	92.0	39,810.7	500,000	Horizontal
* 4875.6	21.5	34.5	56.0	631.0	5,000	Vertical
7313.4	14.3	39.7	54.0	501.2	5,000	Vertical
9751.2		•	-	•	5,000	Vertical
* 12189.0					5,000	Vertical
14626.8					5,000	Vertical
17064.6	Emissions detected are more than 5,000 Vertical			Vertical		
* 19502.4	20 dB below the FCC Limits 5,000 Vertical			Vertical		
21940.2	5,000 Vertical			Vertical		
24378.0	5,000 Vertical					

Field Strength of Fundamental Emissions						
	Average Value					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
2437.8	63.4	27.9	91.3	36,728.2	50,000	Horizontal
* 4875.6	11.1	34.5	45.6	190.5	500	Vertical
7313.4	6.1	39.7	45.8	195.0	500	Vertical

Remarks:

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

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

^{*:} Denotes restricted band of operation.



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

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

Results of Tx mode (Ch. 239, 500kbps): Pass

MCSUITS OF TAIL	Results of 1x mode (Cn. 259, 500kbps): Pass						
	Field Strength of Fundamental Emissions						
	Peak Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	$dB\muV/m$	$dB\mu V/m$	dBμV/m	$\mu V/m$	$\mu V/m$		
2476.1	64.8	27.9	92.7	43,151.9	500,000	Horizontal	
* 4952.2	22.0	34.7	56.7	683.9	5,000	Vertical	
7428.3	19.1	39.4	58.5	841.4	5,000	Horizontal	
9904.4			-		5,000	Vertical	
* 12380.5					5,000	Vertical	
14856.6		5,000 Vertical			Vertical		
17332.7	Emissions detected are more than 5,000 Vertical			Vertical			
* 19808.8	20 dB below the FCC Limits 5,000 Vertical						
22284.9		5,000 Vertical					
24761.0					5,000	Vertical	

Field Strength of Fundamental Emissions						
Average Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
2476.1	63.7	27.9	91.6	38,018.9	50,000	Horizontal
* 4952.2	13.8	34.7	48.5	266.1	500	Vertical
7428.3	9.0	39.4	48.4	263.0	500	Horizontal

Remarks:

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

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

^{*:} Denotes restricted band of operation.



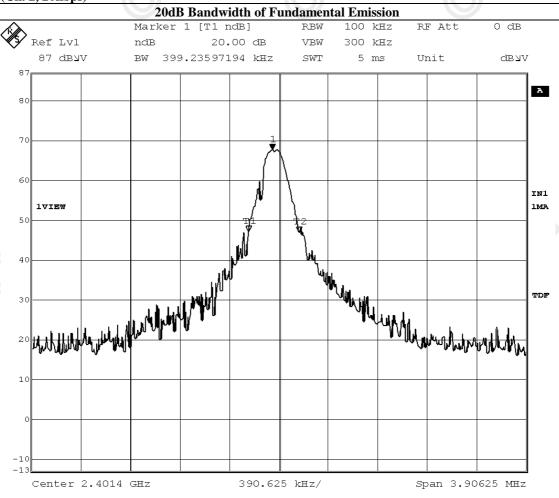
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	
[MHz]	[kHz]	
2401.4	399.24	

(Ch. 2, 20kbps)



Date: 21.MAR.2012 15:11:17



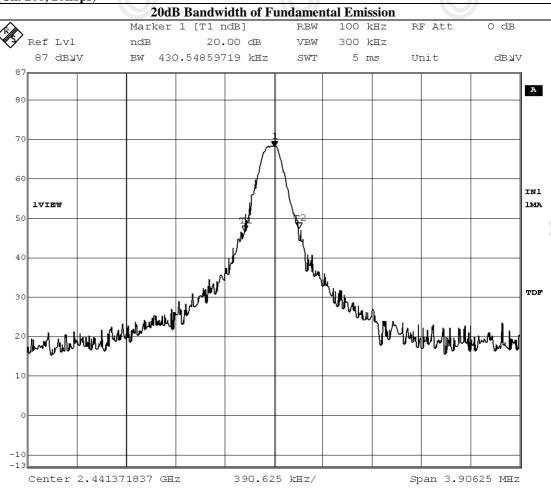
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Limits for 20dB Bandwidth of Fundamental Emission:

		-
Frequency Range	20dB Bandwidth	
[MHz]	[kHz]	
2441.4	430.55	

(Ch. 200, 20kbps)



Date: 21.MAR.2012 15:04:30



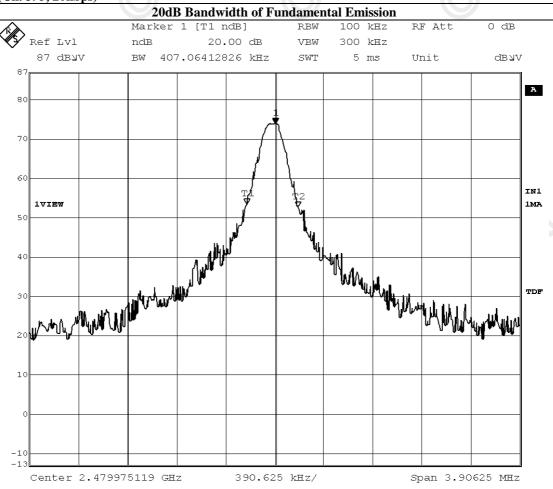
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth
[MHz]	[kHz]
2480	407.06

(Ch. 395, 20kbps)



Date: 21.MAR.2012 14:58:12



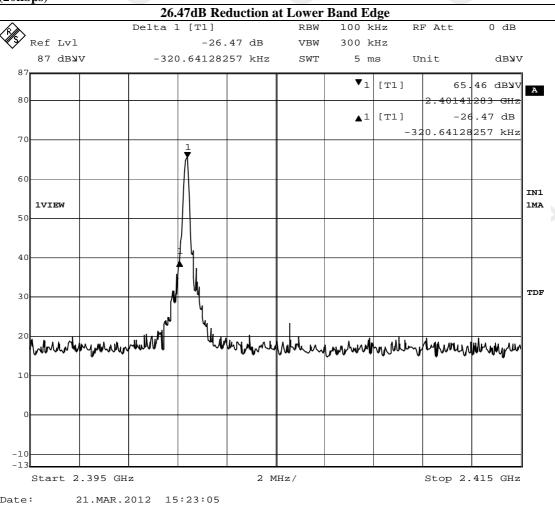
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Band Edge Measurement:

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2401.4 – Lowest Fundamental	26.47

(20kbps)





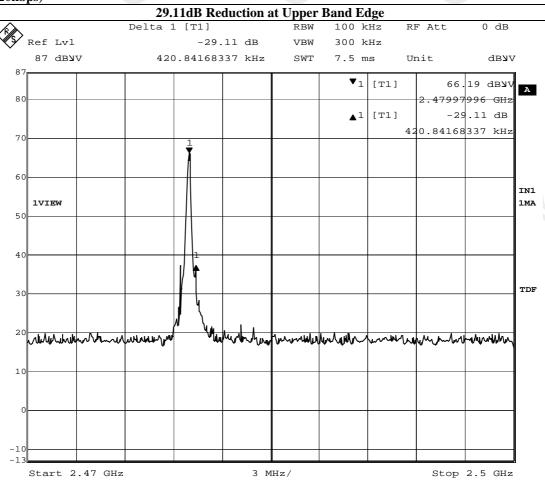
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Band Edge Measurement:

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2479.97 - Highest Fundamental	29.11		

(20kbps)



21.MAR.2012 15:20:49 Date:



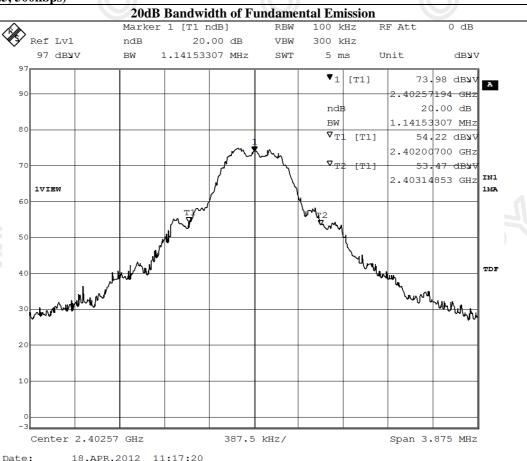
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth		
[MHz]	[MHz]		
2402.57	1.14		

(Ch.5, 500kbps)





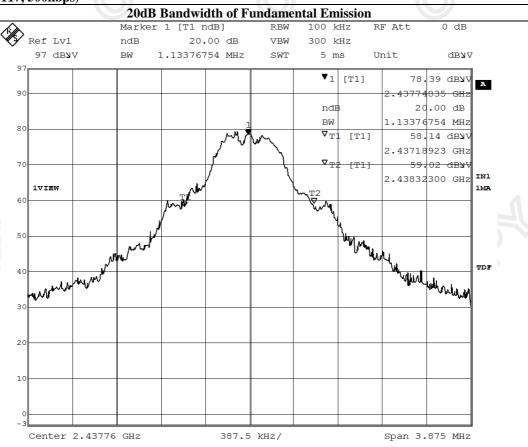
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]		
2437.74	1.13		

(Ch. 117, 500kbps)



18.APR.2012 11:22:10 Date:



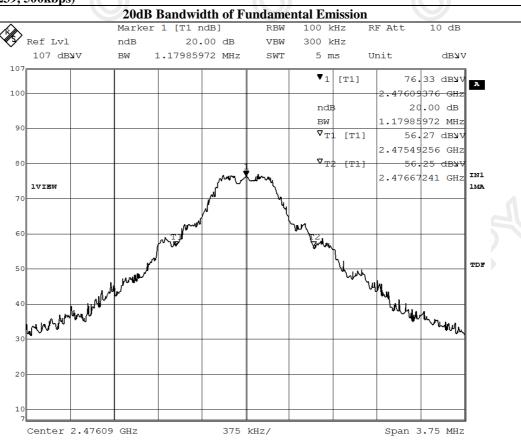
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth [MHz]		
[MHz]			
2476.09	1.18		

(Ch. 239, 500kbps)



Date: 18.APR.2012 11:05:45



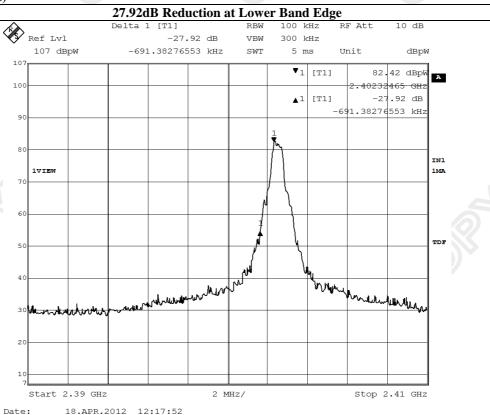
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Band Edge Measurement:

	Frequency Range	Radiated Emission Attenuated below the		
		Fundamental		
[MHz]		[dB]		
2	2402.3 – Lowest Fundamental	27.92		

(500kbps)





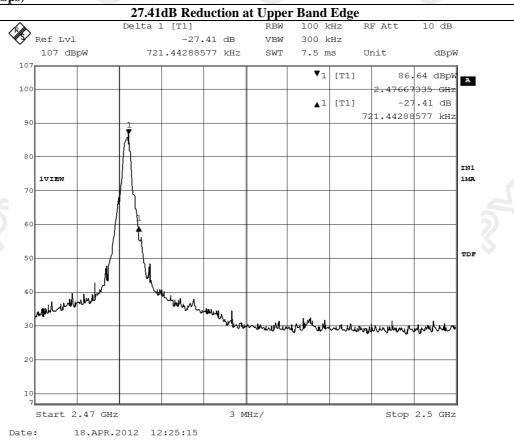
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Band Edge Measurement:

Frequency Range	Radiated Emission Attenuated below the
	Fundamental
[MHz]	[dB]
2476.6 - Highest Fundamer	ntal 27.41

(500kbps)





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

Frequency Range	Quasi-Peak Limits		
[MHz]	$[\mu V/m]$		
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	Quasi-Peak Limits		
[MHz]	$[\mu V/m]$		
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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No. : HM167573

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

Frequency Range [MHz]	Quasi-Peak Limits [μV/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	J20310909030 07	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
EM229	EMI Test Receiver	R&S	ESIB40	100248	2011/04/26	2012/04/26
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2010/09/07	2012/09/07

Remarks:-

CM Corrective Maintenance

N/A Not Applicable or Not Available

To Be Determined TBD



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Appendix B

Photographs of EUT

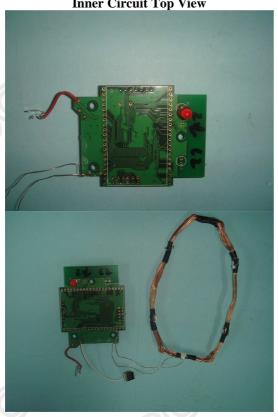
Front View of the product



Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



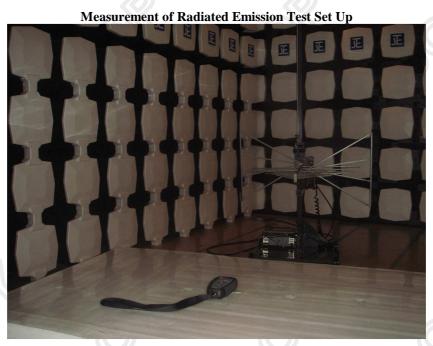


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Photographs of EUT







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Measurement of Radiated Emission Test Set Up



***** End of Test Report *****