

Test Report Serial No.:	210213ZP2	?-T1215-E15	Report Issue Date:	Mar. 1, 2013
Measurement Date(s):	Feb15-	19, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



DECLARATION	N OF COM	IPLIANCE - RF MEASUREMENT REPORT (FCC/IC)			
Test Lab Information	Name	CELLTECH LABS INC.			
lest Lab information	Address	21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada			
Toot I ah Dogistration No. (a)	FCC	714830			
Test Lab Registration No.(s)	IC	3874A-1			
Applicant Information	Name	CHECK-IT SOLUTIONS INC.			
Applicant Information	Address	1601A 4 th Avenue, Regina, SK, Canada, S4R 8P9			
	FCC	47 CFR Part 15.249			
Standard(s) & Procedure(s)	IC	RSS-210 Issue 8; RSS-Gen Issue 3			
	ANSI	C63.4-2003			
Device Clearification(s)	FCC	Low Power Communication Device (DXX)			
Device Classification(s)	IC	Low-power Licence-exempt Radiocommunication Device			
Application Type(s)	FCC/IC	New Certification			
Device Identifier(s)	FCC ID:	RXKCG300			
Device identifier(s)	IC:	10867A-CG300			
Device Model(s) Tested		s device contains approved module Digi International Inc. p/n: XBee ZB SMT; ICQ-XBS2C; IC-ID: 1846A-XBS2C)			
Test Sample Serial No.	121501				
Transmit Frequency Band	902-928 M	Hz			
Transmit Frequency Range	908.40-916	6.00 MHz			
Max. RF Output Power (measured)	93.8 dBuV	/m@3m			
Modulation & Data Rate	908.42 MH	908.40 MHz = 2FSK, 40kbps 908.42 MHz = 2FSK, 9.6kbps 916.00 = 2GFSK, 100kbps			
Antenna Type(s) Tested	Pulse P/N	W1063, 868-928 MHz, Gain = 3dBi.			
Power Source(s) Tested	100/240V -	00/240V – 12V, 2.0A AC/DC adaptor.			

This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Part 15.249; Industry Canada RSS-210 Issue 8 and RSS-Gen Issue 3; and ANSI C63.4-2003.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

The results and statements contained in this report pertain only to the device(s) evaluated.

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Test Report Approved By

Glen Westwell

Laboratory Manager

Celltech Labs Inc.

Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It
DUT Type:		Z-Wave and ZigBee Advanced Gateway							
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Applicant:	Check	-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It
DUT Type:		Z-Wave and ZigBee Advanced Gateway							
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	TEST SUMMARY									
F	Referenced Standard(s):	FCC	FCC CFR Title 47 Part 15 Subpart C							
<u>Appendix</u>	Description of Test	Procedure Reference	Limit Reference	Test Start	Test End	Result				
А	Field Strength of Fundimental & Band Edge	ANSI C63.4-2003	15.249(a)(d)	Feb 8	Feb 9	Pass				
В	Field Strength of the Radiated Spurious & Harmonic Emissions	ANSI C63.4-2003	15.249(a)(d)	Feb 9	Feb 9	Pass				
С	Radiated Spurious Emissions - RX	ANSI C63.4-2003	15.249(d)(e)	Feb 9	Feb 9	Pass				
D	Conducted Emissions	ANSI C63.4-2003 15.207		Feb 26	Feb 26	Pass				
F	Referenced Standard(s):	Industry Canada RSS-210 Issue 8								
<u>Appendix</u>	Description of Test	Procedure Reference	<u>Limit Reference</u>	Test Start	Test End	Result				
А	Field Strength of Fundimental & Band Edge	ANSI C63.4-2003	RSS-210 A8.2(a)	Feb 8	Feb 9	Pass				
В	Field Strength of the Radiated Spurious & Harmonic Emissions	RSS-Gen 4.10	RSS-210 A8.2(a)	Feb 9	Feb 9	Pass				
С	Radiated Spurious Emissions - RX	RSS-Gen 4.10	RSS-210 A8.2(a)	Feb 9	Feb 9	Pass				
D	Conducted Emissions	RSS-Gen 4.10	RSS-210 A8.2(a)	Feb 26	Feb 26	Pass				

REVISION LOG

Revision	Description	Implemented By	Issue Date	
1.0	Initial Release	Glen Westwell	Feb. 27. 2013	
1.1	Added dash to Model number "CG-300"	Mike Meaker	Mar. 1, 2013	

SIGNATORIES

Prepared By	Glen Westwell	Reviewed By	Mike Meaker	Date	
,	Lab Manager	Reviewed by	Engineering Technologist	Feb. 27. 2013	

Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It
DUT Type:		Z-Wave and ZigBee Advanced Gateway							
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1.0 SCOPE

This report outlines the measurements made and results collected during electromagnetic emissions testing of the Check-it's Advanced Gateway Model: CG-300. The measurement results were applied against the applicable FCC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication's Commission Code of Federal Regulations Title 47 Part 15 Subpart C and Industry Canada Radio Standards Specification RSS-210 Issue 8 and RSS-Gen Issue 3.

2.0 REFERENCES

2.1 Normative References

ANSI/ISO 17025:2005 General Requirements for competence of testing and calibration laboratories

IEEE/ANSI C63.4-2003 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic

Equipment in the Range of 9 kHz to 40 GHz

CFR Title 47 Part 15C Code of Federal Regulations

Title 47: Telecommunication Part 15C: Intentional Radiators

IC Spectrum Management &

Radio Standards Specification

Telecommunications Policy RSS-210 Issue 8 - Low-Power Licence-Exempt Radiocommunication Devices (All Frequency

Bands): Category I Equipment

RSS-Gen Issue 3 - General Requirements and Information for the Certification of

Radiocommunication Equipment

3.0 PASS/FAIL CRITERIA

Unless otherwise noted in the Appendices, the pass/fail criteria is the limit set forth in the reference standards. The DUT is considered to have passed the requirements if the data collected during the described measurement procedure is no greater than the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle 14 C
DUT Type:	Z-Wave and ZigBee Advanced Gateway								Check-It
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4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 21-364 Lougheed Road, Kelowna, British Columbia, Canada V1X 7R8. The radiated emissions site conforms to the requirements set forth in ANSI C63.4 and is filed and listed with the FCC under Test Firm Registration Number 714830 and Industry Canada under Test Site File Number IC 3874A-1.

5.0 GENERAL INFORMATION

5.1 Applicant Information

Company Name	CHECK-IT SOLUTIONS INC.
Address	1601A, 4 th Avenue
	Regina, Saskatoon
	Canada, S4R 8P9

5.2 DUT Description

Device Type	The 2.4 GHDigi International It uses a 2. The 900 M	2.4GHz/900MHz Advanced Gateway. The 2.4 GHz ZigBee radio is a pre-approved module as follows: Digi International Inc. p/n: XBee ZB SMT; FCC ID: MCQ-XBS2C; IC ID: 1846A-XBS2C It uses a 2.0 dBi dipole antenna with reverse SMA connector. The 900 MHz Z-Wave radio performance and complete integrated device(s) performance is reported.				
Device Model(s) Tested	CG-300	CG-300				
Test Sample Serial No.(s)	#121501					
Device Identifier(s)	FCC ID: RXKCG300					
Device identifier(s)	IC: 10867A-CG300					
Power Source(s) Tested	Sceptre Power, model # XA024AM1200200, 100/240VAC – 12.0Vdc/2.0A					
Antenna Type(s) Tested	¼ dipole,	¼ dipole, +3dBi (868-928 MHz).				

5.3 Mode(s) of Operation Tested

Transmit Frequency Range	908.40 – 916.0 MHz
Transmitter Test Frequency(s)	908.40/908.42/916.00 MHz
Transmitter Test Mode(s)	Continuous
Modulation Type(s)	CW, 2FSK, 2GFSK

5.4 Modification(s)

The EUT was configured for continuous transmit (worst case).

Applicant:	Check	t-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle 14 W	
DUT Type:	DUT Type: Z-Wave and ZigBee Advanced Gateway								Check-It	
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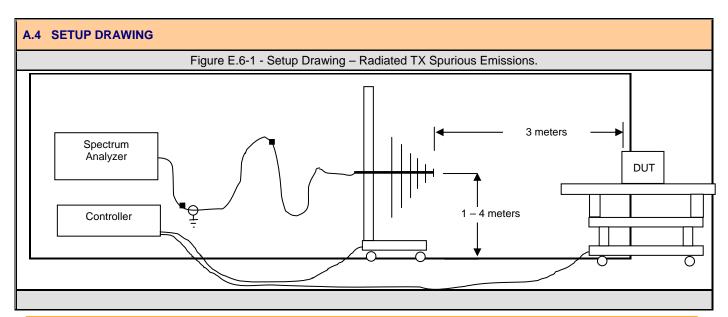


Appendix A Field Strength of Intentional Radiator and Band Edge.

A.1 REFERENCES			
Normative Reference Standard FCC CFR 47 §15.249; RSS-210			
Procedure Reference	ANSI C63.4:2003		

A.2 ENVIRONMENTAL CONDITIONS				
Temperature	25 +/- 5 °C			
Humidity	40 +/- 10 %			
Barometric Pressure	101 +/- 3 kPa			

A.3 EQUIPMENT LIST									
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE					
00051	HP	8566B	Spectrum Analyzer RF Section	10-May-2014					
00049	HP	85650A	Quasi-peak Adapter	10-May-2014					
00047	HP	85685A	RF Preselector	10-May-2014					
00072	EMCO	2075	Mini-mast	n/a					
00073	EMCO	2080	Turn Table	n/a					
00071	EMCO	2090	Multi-Device Controller	n/a					
00239	Miteq	JS4-00102600	Amplifier	n/a					
00059	EMCO	3121C-DB4	Dipole Antenna	07-Mat-2014					
00050	Chase	CBL-6111A	Bilog Antenna	09-May-2014					
00034	ETS	3115	Double Ridged Guide Horn	06-Dec-2014					



Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle 14 W	
DUT Type:	DUT Type: Z-Wave and ZigBee Advanced Gateway								Check-It SOLUTIONS	
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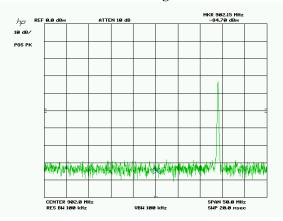
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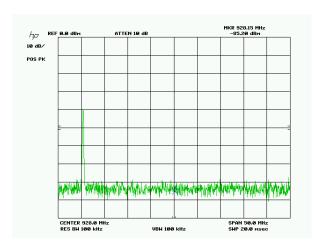


	15.	249(a) Fie	eld Stren	gth of l	Fundamer	ntal – Peak De	etector	
			CG-3	00 Wir	eless Gate	eway		
			Low Po	wer Tı	ansmitter	, DXX		
Frequency	Antenna	Emission	Antenna	Cable	Distance	Emission Level	Limit	Margin
(MHz)	Pol.	Level	Factor	Loss	Correction	(dBuV/m@3m)	(dBuV/m@3m)	
		(dBuV/m)	(dB)					
		@1m						
916.00	V	70.9	27.3	4.8	-9.54	93.56	94.0	-0.54
916.00	Н	69.8	28.5	4.8	-9.54	93.56	94.0	-0.54
908.40	V	70.2	27.3	4.8	-9.54	92.76	94.0	-1.24
908.40	Н	68.7	28.5	4.8	-9.54	92.46	94.0	-1.54
908.42	V	70.6	27.3	4.8	-9.54	93.16	94.0	-0.84
908.42	Н	68.9	28.5	4.8	-9.54	92.66	94.0	-1.34
			Band Ed	ge -15.2	49(d) (Wors	t Case)		
902.00	V	22.3	27.3	4.8	-9.54	44.86	54.0	-9.14
928.00	V	21.8	27.3	4.8	-9.54	44.36	54.0	-9.64

Data presented using a Pk detector results compared to average limits. Therefore satisfying the requirements of 15.249(e). Device characterization was performed on desk top and wall mount axis to determine worst case orientation. EUT was measured at 1m and extrapolated to 3m due to low tx power and receiver sensitivity..

Band Edge





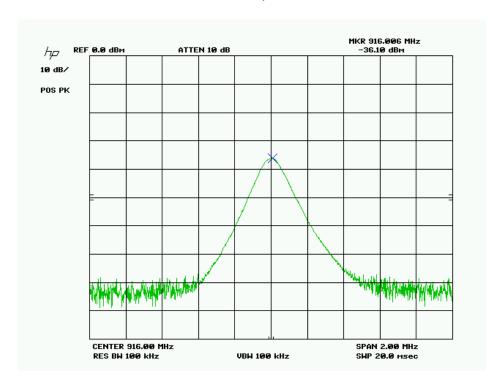
Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle W
DUT Type:			Z-Wave a	nd ZigBee Ad	Ivanced Ga	teway			Check-It
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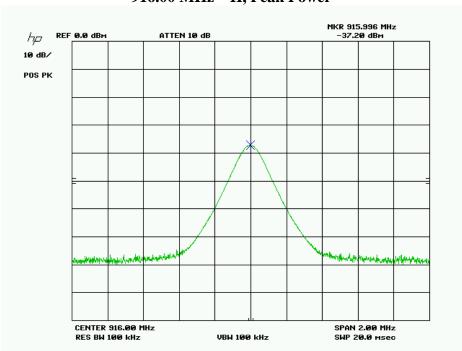
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916.00 MHz - V, Peak Power



916.00 MHz - H, Peak Power



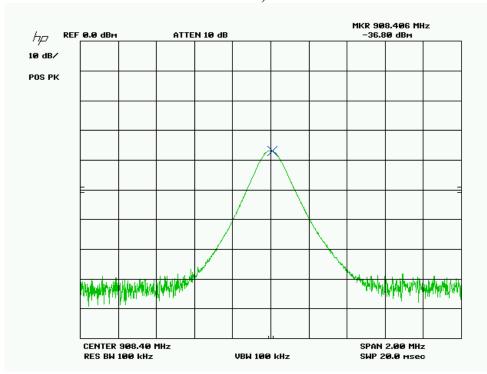
Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle W
DUT Type:			Z-Wave a	nd ZigBee Ad	Ivanced Ga	teway			Check-It
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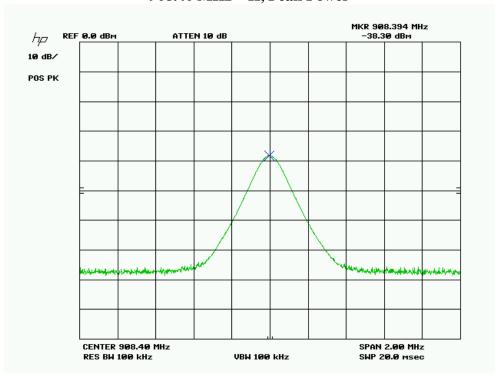
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908.40 MHz - V, Peak Power



908.40 MHz – H, Peak Power



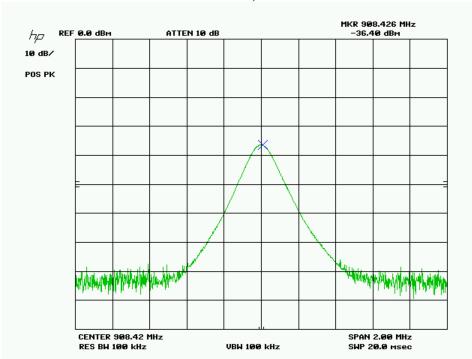
Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle 14 W
DUT Type:			Z-Wave a	nd ZigBee Ad	Ivanced Ga	teway			Check-It Solutions
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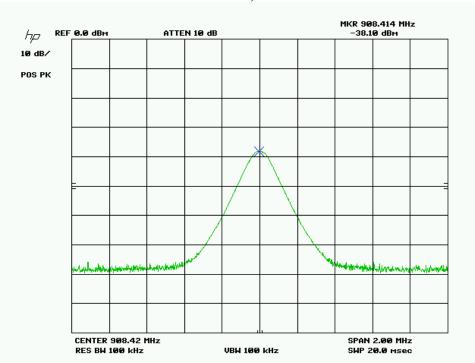
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908.42 MHz - V, Peak Power



908.42 MHz - H, Peak Power



Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle W
DUT Type:			Z-Wave a	nd ZigBee Ad	Ivanced Ga	teway			Check-It
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Appendix B Radiated Spurious / Harmonic Emissions

B.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §15.207,15.209; IC RSS-210, RSS-GEN
Procedure Reference(s)	The procedure used was ANSI C63.4-2003. The frequency was scanned from 30 MHz to 1.0 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The DUT was measured in three (3) orthogonal planes.
	All detected emissions are reported. RSS-Gen 4.10

B.2 LIMITS		
	Frequency (MHz)	Limits
	30-88	40.0 dBuv/m measured @ 3 meters
§15.109	80-216	43.5 dBuv/m measured @ 3 meters
RSS-Gen 6.(a)	216-960	46.0 dBuv/m measured @ 3 meters
	Above 960	54.0 dBuv/m measured @ 3 meters

B.3 ENVIRONMENTAL CONDITIONS					
Temperature 25 +/- 5 °C					
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

B.4 EQUIPME	B.4 EQUIPMENT LIST									
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE						
00072	EMCO	2075	Mini-mast	n/a						
00073	EMCO	2080	Turn Table	n/a						
00071	EMCO	2090	Multi-Device Controller	n/a						
00050	Chase	CBL-6111A	Bilog Antenna	03-May-2014						
00034	ETS	3115	Double Ridged Guide Horn	06-Dec-2014						
00051	HP	8566B	Spectrum Analyzer RF Section	10-May-2014						
00049	HP	85650A	Quasi-peak Adapter	10-May-2014						
00047	HP	85685A	RF Preselector	10-May-2014						
00239	Miteq	JS4-00102600	Amplifier	n/a						
00006	R&S	SMR 20	Signal Generator (10MHz-40GHz)	02-May-2014						

Applicant:	Check	k-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It
DUT Type:		Z-Wave and ZigBee Advanced Gateway							
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B.5 MEASUREMENT EQUIPMENT SETUP

MEASUREMENT EQUIPMENT CONNECTIONS For the field strength measurements, the measurement equipment was connected as shown in G.6. Various antenna types may be required to cover the applicable frequency range tested. The ranges in which each antenna was used are shown below.

Frequency Range	RX Antenna	TX Antenna
30 MHz - 1GHz	Bilog	N/a
1 GHz - 18 GHz	ETS 3115 Horn	N/a

For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings:

MEASUREMENT EQUIPMENT SETTINGS

Measurement	RBW	VBW	Detector	
Wedstrement	kHz	kHz		
< 1 GHz	100	300	Peak*	
> 1 GHz	1000	3000	Peak*	

^{*} As a worst-case measurement, the QP limit was applied to measurements made with a peak detector.

B.6 SETUP DRAWING

Figure B.66-1 - Setup Drawing - Radiated RX Spurious Emissions (< 1 GHz)

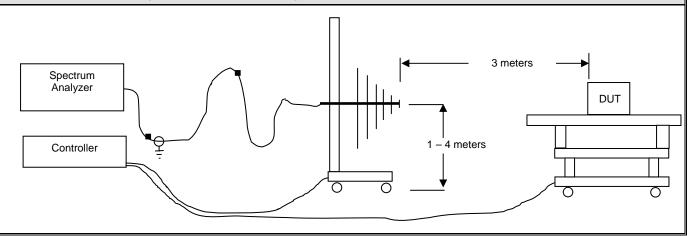


Figure G.7-1 - Setup Drawing – Radiated RX Spurious Emissions (> 1 GHz) Spectrum Analyzer PreAmp Controller

Applicant:	Check	k-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It	
DUT Type:		Z-Wave and ZigBee Advanced Gateway								
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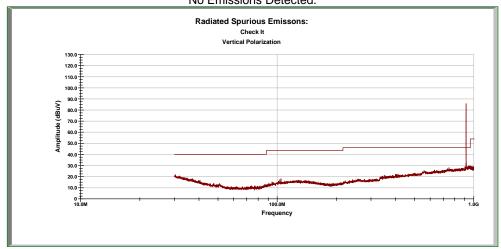


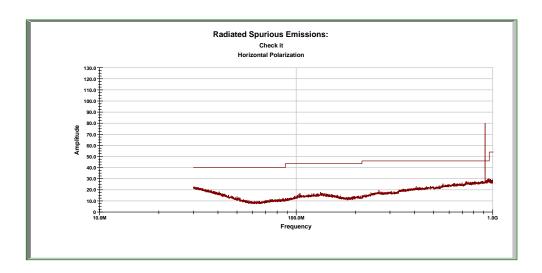
Test Report Serial No.:	210213ZP2	2-T1215-E15	Report Issue Date:	Mar. 1, 2013
Measurement Date(s):	Feb15-	19, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210 RSS-Gen		IC Test Site No.:	IC 3874A-1



Spurious Emissions (worst case)

Radiated Pre-Scan at 1m, 30 MHz-1 GHz No Emissions Detected.





Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It		
DUT Type:		Z-Wave and ZigBee Advanced Gateway									
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Test Report Serial No.:	210213ZP2	?–T1215-E15	Report Issue Date:	Mar. 1, 2013
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



TX = 916.00 MHz

	15.249(a)(d) Fiel	d Streng	th of Spu	irious Em	nissions – Pea	k Detector						
	CG-300 Wireless Gateway												
	Low Power Transmitter, DXX												
Frequency (MHz)	Antenna Pol.	Emission Level (dBuV/m) @1m	Antenna Factor (dB)	Cable Loss/Amp Gain Corr.	Distance Correction	Emission Level (dBuV/m@3m)	Limit (avg) (dBuV/m@3m)	Margin					
1832.0	V	ND			-9.54		54.0						
	Н	ND			-9.54		54.0						
2748.0	V	45.0	28.9	-27.9	-9.54	36.46	54.0	-17.54					
	Н	45.8	28.9	-27.9	-9.54	37.26	54.0	-16.74					
3664.0	V	ND		-26.6	-9.54		54.0						
	Н	ND		-26.6	-9.54		54.0						
4580.0	V	50.5	32.4	-22.6	-9.54	50.76	54.0	-3.24					
	Н	50.9	32.4	-22.6	-9.54	51.16	54.0	-2.84					
5496.0	V	37.3	34.2	-23.0	-9.54	38.96	54.0	-15.04					
	Н	ND		-23.0	-9.54		54.0						

Notes:

ND = Not Detected.

Data presented using a Pk detector compared to average limits. Therefore satisfying the requirements of 15.249(e).

Device characterization was performed on 3 orthogonal axis to determine worst case orientation.

EUT was measured at 1m and extrapolated to 3m due to low tx power and receiver sensitivity..

TX = 908.40 MHz

	15.249(a)(d) Fiel	d Streng	th of Spu	irious Em	issions – Pea	k Detector						
	CG-300 Wireless Gateway												
			Low P	ower Tra	nsmitter,	DXX							
Frequency (MHz)	Antenna Pol.	Emission Level (dBuV/m) @1m	Antenna Factor (dB)	Cable Loss/Amp Gain Corr.	Distance Correction	Emission Level (dBuV/m@3m)	Limit (avg) (dBuV/m@3m)	Margin					
1816.8	V	ND			-9.54		54.0						
	Н	ND			-9.54		54.0						
2725.2	V	43.2	28.9	-28.0	-9.54	34.56	54.0	-19.44					
	Н	43.1	28.9	-28.0	-9.54	34.46	54.0	-19.54					
3633.6	V	ND		-26.6	-9.54		54.0						
	Н	ND		-26.6	-9.54		54.0						
4542.0	V	48.9	32.4	-23.5	-9.54	48.26	54.0	-5.74					
	Н	49.6	32.4	-23.5	-9.54	49.46	54.0	-4.54					
5450.4	V	37.2	34.2	-23.0	-9.54	38.86	54.0	-15.14					
	Н	ND		-23.0	-9.54		54.0						

ND = Not Detected.

Data presented using a Pk detector compared to average limits. Therefore satisfying the requirements of 15.249(e).

Device characterization was performed on 3 orthogonal axis to determine worst case orientation. EUT was measured at 1m and extrapolated to 3m due to low tx power and receiver sensitivity..

Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It
DUT Type:	Z-Wave and ZigBee Advanced Gateway								
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FCC Rule Part(s):	47 CFR §15.249		FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



TX = 908.42 MHz

	15.249(a)(d) Field Strength of Spurious Emissions – Peak Detector										
CG-300 Wireless Gateway											
Low Power Transmitter, DXX											
Frequency	Antenna	Emission	Antenna	Cable	Distance	Emission Level	Limit (avg)	Margin			
(MHz)	Pol.	Level	Factor	Loss/Amp	Correction	(dBuV/m@3m)	(dBuV/m@3m)				
		(dBuV/m) @1m	(dB)	Gain Corr.							
10160	* 7			Corr.	0.54		540				
1816.8	V	ND			-9.54		54.0				
	Н	ND			-9.54		54.0				
2725.2	V	43.2	28.9	-28.0	-9.54	34.56	54.0	-19.44			
	Н	43.1	28.9	-28.0	-9.54	34.46	54.0	-19.54			
3633.6	V	ND		-26.8	-9.54		54.0				
	Н	ND		-26.8	-9.54		54.0				
4542.0	V	48.9	32.4	-23.1	-9.54	48.26	54.0	-5.74			
	Н	49.6	32.4	-23.1	-9.54	49.46	54.0	-4.54			
5450.4	V	ND		-23.0	-9.54		54.0				
	Н	ND		-23.0	-9.54		54.0				

Notes:

ND = Not Detected.

Data presented using a Pk detector compared to average limits. Therefore satisfying the requirements of 15.249(e).

Device characterization was performed on 3 orthogonal axis to determine worst case orientation.

EUT was measured at 1m and extrapolated to 3m due to low tx power and receiver sensitivity..

Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle W		
DUT Type:	Z-Wave and ZigBee Advanced Gateway								Check-It SOLUTIONS		
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FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



Appendix C

Radiated Spurious Emissions (RX)

C.1 REFERENCES					
Normative Reference Standard	FCC CFR 47 §15.209; IC RSS-210, RSS-GEN				
Procedure Reference(s)	The procedure used was ANSI C63.4-2003. The frequency was scanned from 30 MHz to 1.0 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The DUT was measured in three (3) orthogonal planes.				
	RSS-Gen 4.10				

C.2 LIMITS								
		Frequency (MHz)	Limits					
		30-88	40.0 dBuv/m measured @ 3 meters					
§15.109		80-216	43.5 dBuv/m measured @ 3 meters					
RSS-Gen 6.(a)		216-960	46.0 dBuv/m measured @ 3 meters					
		Above 960	54.0 dBuv/m measured @ 3 meters					

C.3 ENVIRONMENTAL CONDITIONS					
Temperature	25 +/- 5 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

C.4 EQUIPMENT LIST								
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE				
00072	EMCO	2075	Mini-mast	n/a				
00073	EMCO	2080	Turn Table	n/a				
00071	EMCO	2090	Multi-Device Controller	n/a				
00015	HP	E4408B	Spectrum Analyzer	03May12				
00050	Chase	CBL-6111A	Bilog Antenna	03May13				
00051	HP	8566B	Spectrum Analyzer RF Section	03May12				
00049	HP	85650A	Quasi-peak Adapter	06May12				
00047	HP	85685A	RF Preselector	05May12				
00006	R&S	SMR 20	Signal Generator (10MHz-40GHz)	30Apr12				

Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It	
DUT Type:		Z-Wave and ZigBee Advanced Gateway								
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FCC Rule Part(s):	47 CFR §15.249		FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



C.5 MEASUREMENT EQUIPMENT SETUP

MEASUREMENT EQUIPMENT CONNECTIONS For the field strength measurements, the measurement equipment was connected as shown in G.6. Various antenna types may be required to cover the applicable frequency range tested. The ranges in which each antenna was used are shown below.

Frequency Range	RX Antenna	TX Antenna
30 MHz - 1GHz	Bilog	N/a
1 GHz - 18 GHz	ETS 3115 Horn	N/a

For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings:

MEASUREMENT EQUIPMENT SETTINGS

Measurement	RBW	VBW	Detector
Wedstrement	kHz	kHz kHz	
< 1 GHz	100	300	Peak*
> 1 GHz	1000	3000	Peak*

^{*} As a worst-case measurement, the QP limit was applied to measurements made with a peak detector.

C.6 SETUP DRAWING

Figure C.66-1 - Setup Drawing - Radiated RX Spurious Emissions (< 1 GHz)

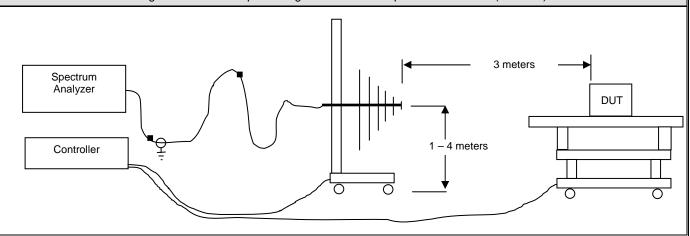


Figure G.7-1 - Setup Drawing – Radiated RX Spurious Emissions (> 1 GHz) Spectrum Analyzer PreAmp Controller

Applicant:	Check	k-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle W
DUT Type:	Type: Z-Wave and ZigBee Advanced Gateway							Check-It SOLUTIONS	
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



RX Spurious Emissions

15.249(d)(e) Field Strength of Spurious Emissions – Peak Detector CG-300 Wireless Gateway Low Power Transmitter, DXX								
Frequency (MHz)	Antenna Pol.	Emission Level (dBuV/m) @1m	Antenna Factor (dB)	Cable Loss/Amp Gain Corr.	Distance Correction	Emission Level (dBuV/m@3m)	Limit (avg) (dBuV/m@3m)	Margin
1824.98	V	40.3	26.8	-28.7	-9.54	28.86	54.0	-25.14
	Н	43.1	26.8	-28.7	-9.54	31.66	54.0	-22.34
1999.92	V	51.7	27.2	-28.8	-9.54	40.56	54.0	-13.44
2799.9	V	47.3	29.0	-27.6	-9.54	39.16	54.0	-14.84

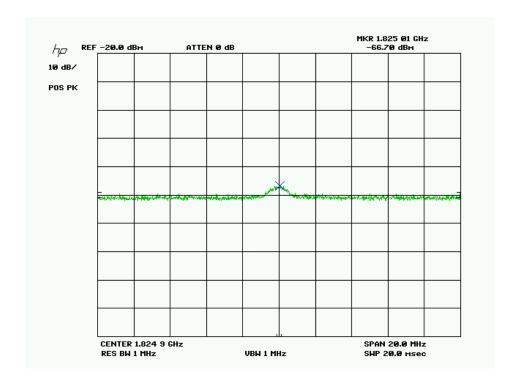
Notes:

ND = Not Detected.

Data presented using a Pk detector compared to average limits. Therefore satisfying the requirements of 15.249(e).

Device characterization was performed on 3 orthogonal axis to determine worst case orientation. EUT was measured at 1m and extrapolated to 3m due to low tx power and receiver sensitivity..

All detected emissions are reported in the table above.

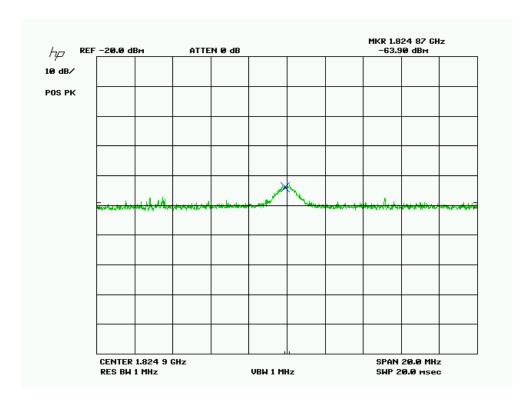


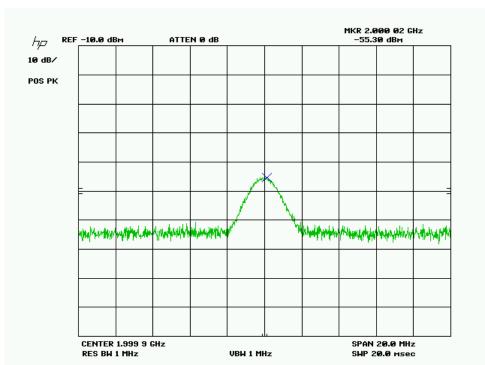
Applicant:	Check	t-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle 14 W
DUT Type:		Z-Wave and ZigBee Advanced Gateway						Check-It SOLUTIONS	
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FCC Rule Part(s):	47 CFR §15.249		FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1





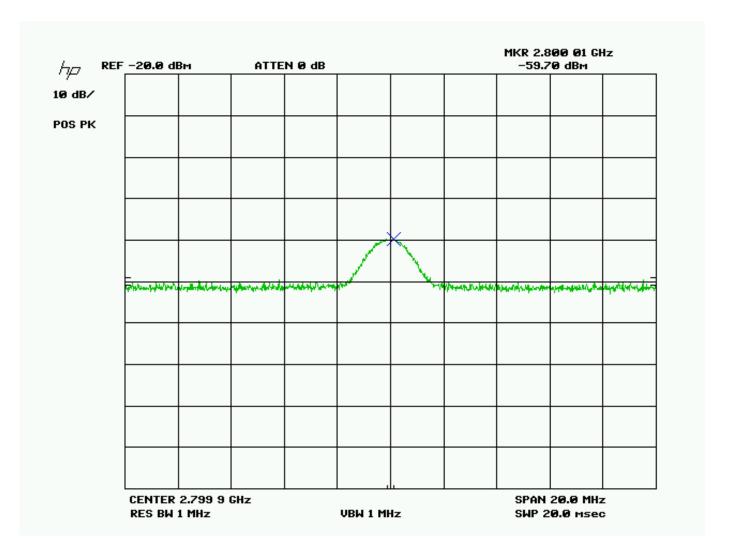


Applicant:	Check	t-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle 14 W
DUT Type:		Z-Wave and ZigBee Advanced Gateway						Check-It SOLUTIONS	
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1





Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle II
DUT Type:		Z-Wave and ZigBee Advanced Gateway						Check-It	
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



Appendix D - Conducted Powerline Emissions Measurement

D.1. REFERENCES			
Normative Reference Standard(s)	CFR 47 FCC Part 15 §15.207 (a)	ICES-001 Issue 4	EN 55022: 2006
Procedure Reference(s)	ANSI C63.4	CISPR 11: 2004	EN 55022: 2006

D.2. LIMITS

§15.107(a): Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency of Emission (MHz)	Conducted I	Limit (dBuV)
rrequency of Emission (wirz)	Quasi-Peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

D.3. ENVIRONMENTAL CONDITIONS					
Temperature	25 ± 5 °C				
Humidity	35 ± 5 %RH				
Barometric Pressure	uncontrolled				

D.4. EQUIPMENT LIST											
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE						
00049	HP	85650A	Quasi-Peak Adapter	05/10/2012	05/10/2014						
00047	HP	85685A	RF Preselector	05/10/2012	05/10/2014						
00051	HP	8566B	Spectrum Analyzer RF Section	05/9/2012	05/9/2014						
00083	EMCO	3825/2	Line Impedance Stabilization Network	05/9/2012	05/9/2014						

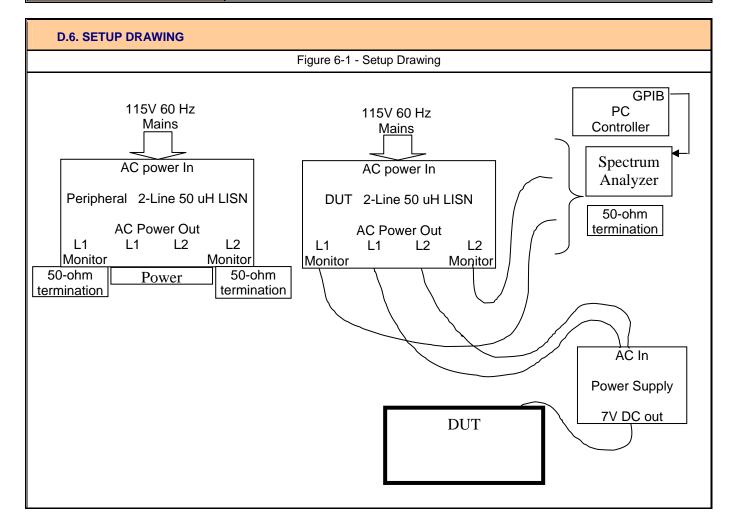
	Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It		
	DUT Type:	T Type: Z-Wave and ZigBee Advanced Gateway										
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FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



D.5. MEASUREMENT EQUIPMENT SETUP							
MEASUREMENT EQUIPMENT CONNECTIONS	The conducted emissions were measured on each of the two AC powerline leads connected to the DUT's power supply brick. A two line LISN was used to make this measurement. A drawing of the equipment setup is shown in C.7						
MEASUREMENT EQUIPMENT SETTINGS	Each of the monitor ports from the 2-line LISN was connected in turn to the spectrum analyzer. The port not connected to the analyzer was terminated in a 50-ohm load. A prescan of the peak emission levels was made of the 150 kHz – 30 MHz range split into 4 equal frequency bands. The following were the spectrum analyzer settings: Start Frequency and Stop Frequency set by software for each of the four bands RBW: 100 kHz VBW: 300 kHz Sweep: 500 mS The resulting data from each band was corrected and collected by software and presented in the graphical representations shown in C.9 for the two leads. The frequency points with peak levels within 20 dB of the average limit were selected and optimized using software control each type of detector (peak, quasi-peak and average). This data was corrected by the software is presented in the tables shown in section C.9.						



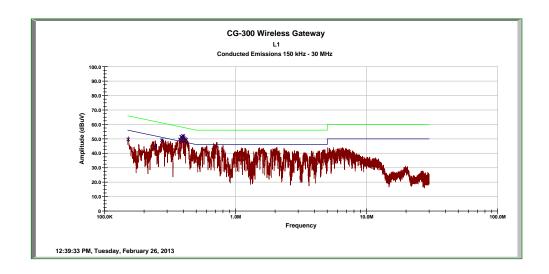
Applicant:	Check	t-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It	
DUT Type:		Z-Wave and ZigBee Advanced Gateway								
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



15.207, Powerline Conducted Emissions.



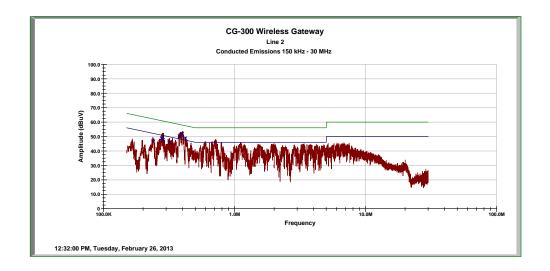
Frequency (MHz)	Emiss	sion Level (d)	BuV)	Limits (dBuV)		Marg	gin (dB)	Result
	Corrected Average	Corrected Peak	Corrected QP	Average	QP	Average	QP	
0.151329	39.548	52.001	49.591	56	66.0	16.452	16.409	Pass
0.244142	33.159	50.371	45.261	53.3	63.3	20.141	18.039	Pass
0.272925	41.963	51.658	48.938	52.48	62.48	10.517	13.542	Pass
0.375074	36.07	51.458	49.568	49.56	59.56	13.49	9.992	Pass
0.383656	41.732	52.957	51.217	49.32	59.32	7.588	8.103	Pass
0.385878	42.789	53.054	51.514	49.25	59.25	6.461	7.736	Pass
0.394545	44.136	53.451	52.091	49.00	59.00	4.864	6.909	Pass
0.399256	41.086	53.251	51.771	48.87	58.87	7.784	7.099	Pass
0.413253	35.468	52.268	49.828	48.47	58.47	13.002	8.642	Pass
0.418938	37.45	51.262	49.282	48.3	58.3	10.85	9.018	Pass

Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It		
DUT Type:		Z-Wave and ZigBee Advanced Gateway									
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Frequency (MHz)	Emiss	sion Level (dl	BuV)	Limits (dBuV)		Marg	çin (dB)	Result
	Corrected Average	Corrected Peak	Corrected QP	Average	QP	Average	QP	
0.239131	38.264	50.369	46.489	53.45	63.45	15.186	16.961	Pass
0.277060	41.56	53.648	48.718	52.37	62.37	10.81	13.652	Pass
0.279925	39.812	53.447	48.937	52.28	62.28	12.468	13.343	Pass
0.280687	39.519	53.547	48.717	52.26	62.26	12.741	13.543	Pass
0.285221	35.982	52.95	47.71	52.13	62.13	16.148	14.42	Pass
0.319570	35.286	51.348	45.858	51.15	61.15	15.864	15.292	Pass
0.378745	38.592	52.352	50.332	49.46	59.46	10.868	9.128	Pass
0.393092	44.264	53.454	52.094	49.05	59.05	4.786	6.956	Pass
0.397820	42.497	53.45	52.01	48.9	58.9	6.403	6.89	Pass
0.419576	37.067	50.547	48.767	48.3	58.3	11.233	9.533	Pass

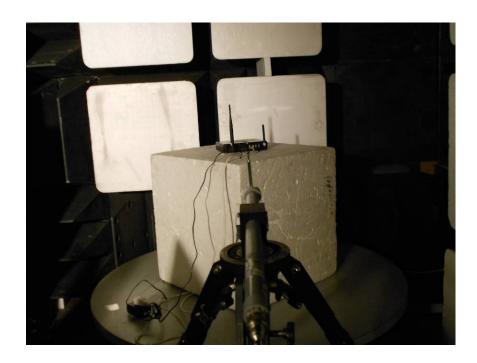
Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It				
DUT Type:		Z-Wave and ZigBee Advanced Gateway											
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Test Report Serial No.:	210213ZP2	?–T1215-E15	Report Issue Date:	Mar. 1, 2013
Measurement Date(s):	Feb15-	19, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



Appendix E Test Set Up Photo's





Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It
DUT Type:		Z-Wave and ZigBee Advanced Gateway							
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Test Report Serial No.:	210213ZP2	2-T1215-E15	Report Issue Date:	Mar. 1, 2013
Measurement Date(s):	Feb15-	19, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1





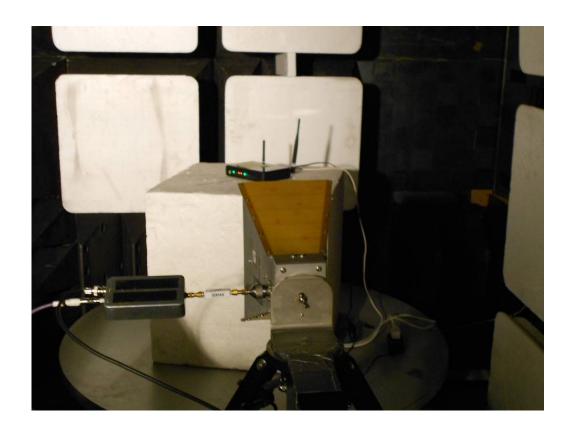


ĺ	Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle II
	DUT Type:		Z-Wave and ZigBee Advanced Gateway							Check-It
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Test Report Serial No.:	210213ZP2	?-T1215-E15	Report Issue Date:	Mar. 1, 2013
Measurement Date(s):	Feb15-	19, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1





Applicant:	Check	c-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Charle II
DUT Type:		Z-Wave and ZigBee Advanced Gateway							Check-It
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Test Report Serial No.:	210213ZP2	2-T1215-E15	Report Issue Date:	Mar. 1, 2013
Measurement Date(s):	Feb15-	19, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1





Applicant:	Check	t-It Solutions Inc.	Model:	CG-300	FCC ID:	RXKCG300	IC:	10867A-CG300	Check-It
DUT Type:		Z-Wave and ZigBee Advanced Gateway							
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Test Report Serial No.:	210213ZP2	2-T1215-E15	Report Issue Date:	Mar. 1, 2013
Measurement Date(s):	Feb15-	19, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



Appendix F Antenna Requirement §15.203

§ 15.203 Antenna Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The DUT complies with the antenna requirements of 15.203 as follows:

The device uses reverse SMA antenna connector(s).

END OF DOCUMENT