

Test Report Serial No.:	130613-T	1230-E-15O	Report Issue Date:	6/17/2013
Measurement Date(s):	May 22-Ju	ine 13, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR §	§2; §15.231	FCC Test Firm Reg. No.:	Accredited
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



Compliance Test Report			RF MEASUREMENT REPORT	FCC & IC			
Test Lab Information	Name	CELL	CELLTECH LABS INCORPORATED				
rest Lab information	Address	21-36	21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada				
Test Lab Registration No.(s)	FCC	Accred	dited (ISO 17025 - A2LA Test Lab Certificate No. 24	70.01)			
rest Lab Registration No.(s)	IC	3874A	-1				
Applicant Information	Name	Breho	n Agrisystems Inc.				
Applicant Information	Address	102-2750 Faithfull Ave., Saskatoon, SK, S7K 6M6					
	FCC	47 CFR Part 2; 15.231, 15B					
Standard(s) & Procedure(s)	IC	RSS-210 Issue 8; RSS-Gen Issue 3					
	ANSI	C63.4	-2003				
Daving Classification(s)	FCC	Part 15 Periodic Operational Devices (DSC)					
Device Classification(s)	IC	Low-power Licence-exempt Momentarily Operated Devices (Category 1)					
Application Type	FCC/IC	New C	Certification				
Davisa Identificata	FCC ID:	2AAEG-GFRC418					
Device Identifier(s)	IC:	11133A-GFRC418					
Device Under Test (DUT)	Remote cor	Remote control momentarily operated transmitter.					
Device Model(s) Tested	GFRC418	GFRC418					
This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report							

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 Rule Part 2 and Rule Part 15.231; Industry Canada RSS-210, RSS-Gen; 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.

Test Report Approved By	D. What	6/17/2013	Celltech Labs Inc.
	Glen Westwell		

Applicant:	Brehon Agrisystems Inc.			FCC ID:	FCC ID: 2AAEG-GFRC418			IC: 11133A-GFRC418			
DUT Model: GFRC418		18 DUT Type:		Radio Remote Control		Tx Freq.:		418 MHz	4		
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Applicant:	Bre	non Agrisystems	s Inc.	FCC ID:	2AAEG-GFRC418	IC: 11133A-GFRC418		
DUT Model:	GFRC41	B DUT Type:		Radio Remo	te Control	Tx Freq.	.: 418 MHz	ľ
							Т	



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#### **GENERAL REMARKS**

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#### **SUMMARY**

The device under test (DUT) fulfills the general approval requirements as identified in this test report.

#### **REVISION LOG**

Revision	Description	Implemented By	Implementation Date
1.0	1st Release	Glen Westwell	6/17/2013
1.1	Corrected FCC ID – cover sheet	Glen Westwell	6/17/2013

Test Report Prepared By	Date	QA Review By	Date	
Glen Westwell	6/17/2013	Mike Meaker Ben Hewson	6/17/2013	

	Applicant:	В	Brehon Agrisystems Inc.			FCC ID:	2AAEG-GFRC418	IC: 11°		133A-GFRC418	Force Command
	DUT Model:	GFRC	418	DUT Type:		Radio Remo	Radio Remote Control		11	418 MHz	Systems /
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



### 1.0 REFERENCES

#### 1.1 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 15B/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

#### 2.0 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:	В	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFRC418	IC:	11	133A-GFRC418		
DUT Model:	GFRC4	418	DUT Type:		Radio Remo	te Control	Tx Freq	<b>.:</b>	418 MHz	
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### 3.0 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 Industry Canada under File Number IC 3874A-1. Celltech test site is listed with the FCC as an accredited test facility.

### 4.0 GENERAL INFORMATION

### 4.1 DUT Description & Specifications

Device Type	Remote control	I 418 MHz transmitter	
Device Model(s)	G Force Remo	uto Control	
Device Model(s)	G Force Remo	ne Control	
Test Sample Serial No.	T/A Sample - Io	dentical Prototype	
Device Identifier(s)		2AAEG-GFRC418 11133A-GFRC418	
Transmit Frequency Range	418 MHz		
No. of Channels	1		
Measured Field Strength	78.4dBuV/m@3m		
Modulation	ООК		
Antenna	Integral, Omni directional Whip.		
TX Duty Cycle	85.3% on time (-1.3dB correction)		
Emission Designator	55K6L1D		
DUT Power Source	9 VDC Battery,	DC Cell.	
Type of Equipment	Mobile Licensed Non-Broadcast Station Transmitter (TNB)		
Deviation(s) from standard/procedure	None		
Modification of DUT	None		
Applicable Standards	FCC Part 15.23	31, IC RSS-210	

Applicant:	Bre	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFRC418	IC:	11	133A-GFRC418	
DUT Model:	GFRC41	8 DUT Type:		Radio Remo	te Control	Tx Freq	<b>.</b> :	418 MHz	
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1

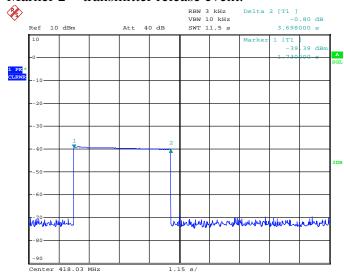


# 5.0 <u>DEVICE OPERATION</u>

Item	Description	Yes	No			
1	Does this device transmit a signal that is only used to control another device?	X				
2	Does this device send data with this control signal?					
3	Does this device send data? Data is, things like: temperature, wind direction, fluid amount, rate of flow, etc.		X			
4	Does this device transmit continuously or automatically?		X			
5	*If manually operated does this device stop transmitting within 5 seconds of releasing the button?	X				
6	If automatically operated does it deactivate 5 seconds after activation?	N/A				
7	Does it transmit at regular predetermined intervals?		X			
8	Does it poll or send supervisory information?		X			
	If 'Yes', does it do a system integrity check? How often?		Λ			
9	Is this a fire, security, or safety of life device?		X			
	If 'Yes' does the device stop transmitting after the alarm condition is satisfied?		Λ			
10	Duty cycle: Maximum on time?					
	If 'Yes' on-time in 100mS? If other please specify here.	X				
	On time = $85.8 \text{mS} / 100 \text{mS}$					
11	Modulation technique: Please specify the modulation of the test sample, FM or AFSK, or FSK, or On-Off Keying, or others?	OOK				

\*Transmitter manual de-activation plot. The device deactivates immediately upon release.

Marker 2 = transmitter release event.



Date: 22.MAY.2013 19:52:08

Applicant:	В	rehon Agrisystems Inc.		FCC ID:	2AAEG-GFRC418	IC:	11133A-GFRC418	force Command		
DUT Model:	GFRC	418	DUT Type:		Radio Remote Control		Tx Freq	.: 418 MHz	5) siems	
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



# 6.0 FIELD STRENGTH OF THE FUNDAMENTAL AND SPURIOUS EMISSIONS

6.1 References	
Normative Reference Standard	FCC CFR 47 §15.231; §15.209; IC RSS-210 Issue 8
Procedure Reference	ANSI C63.4:2003

### 6.2 Limits

# TX Emission Limits (FCC §15.231)

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emission (microvolts/meter)	
40.66–40.70	2,250	225	
70–130	1,250	125	
130–174	1,250 to 3,750	125 to 375	
174–260	3,750	375	
260–470	3,750 to 12,500	375 to 1,250	
Above 470	12,500	1,250	
<sup>1</sup> Linear interpolations			

### TX Emission Limits (IC RSS-210 A1.1.1)

Fundamental Frequency (MHz), excluding restricted band frequencies of RSS-Gen	Field Strength of the Fundamental (microvolts/meter)	Field Strength of Unwanted Emissions (microvolts/meter)			
40.66–40.70	See S	ection A2.7			
70–130	1,250	125			
130–174	1,250 to 3,750	125 to 375			
174–260	3,750	375			
260–470	3,750 to 12,500	375 to 1,250			
Above 470	12,500	1,250			
<sup>1</sup> Linear interpolations					

6.3 Environmental conditi	ions
Temperature	25 +/- 5 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

Applicant:	В	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFRC418	IC:	11133A-GFRC418	Force Communal	
DUT Model:	GFRC	418	DUT Type:		Radio Remote Control		Tx Freq.: 418 MHz		5) sixums
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



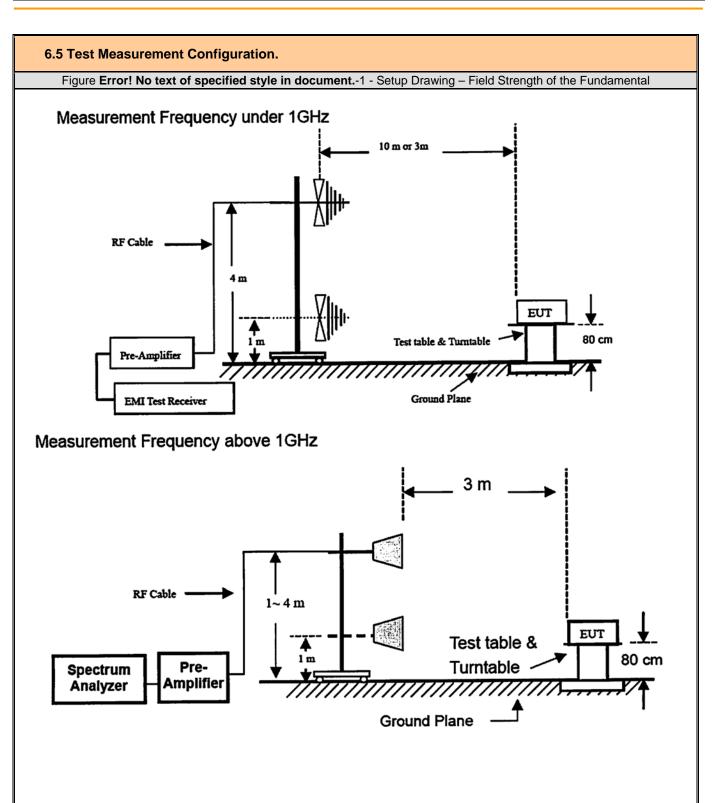
6.4 Equipme	ent list					
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE		
00051	HP	8566B	8566B Spectrum Analyzer RF Section			
00049	HP	85650A	85650A Quasi-peak Adapter 10			
00047	HP	85685A	RF Preselector	10 May14		
00072	EMCO	2075	Mini-mast	n/a		
00073	EMCO	2080	Turn Table	n/a		
00071	EMCO	2090	Multi-Device Controller	n/a		
00030	Miteq	JS4-00102600	Microwave system amplifier	COU		
00241	R&S	FSU40	Spectrum Analyzer	09Apr15		
00050	Chase	CBL-6111A	Bilog Antenna	03 May14		
00034	ETS	3115	Double Ridged Guide Horn	06 Dec 14		

Applicant:	Breho	n Agrisystems	Inc.	FCC ID: 2AAEG-GFRC418		IC: 11133A-GFRC4		
DUT Model:	GFRC418	DUT Type:	Radio Remote Control		te Control	Tx Freq	.: 418 MHz	ŀ
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1





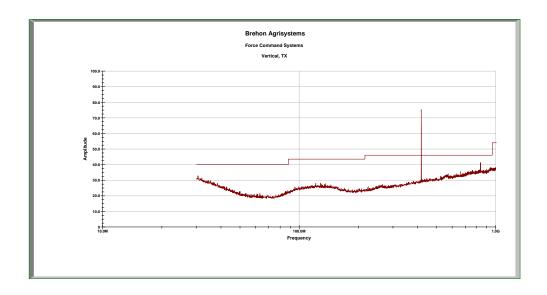
Applicant:	В	reho	n Agrisystems	s Inc.	FCC ID:	2AAEG-GFRC418	IC:	11133A-GFRC418		force Command
DUT Model:	GFRC	418	DUT Type:		Radio Remote Control		Tx Freq	Freq.: 418 MHz		5)sivms
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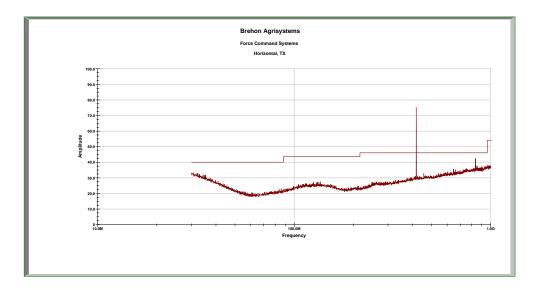


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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



### Radiated Emissions Scan, 30 MHz-1GHz





Applicant:	В	Brehon Agrisystems Inc.		FCC ID: 2AAEG-GFRC418		IC:	11133A-GFRC418	Force (namenal)		
DUT Model:	GFRC	418	DUT Type:		Radio Remote Control		Radio Remote Control Tx Freq.: 418 MHz			Force Commund Systems
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



#### Fundamental Emission

Emission Frequency	Ant. Pol.	Maximized Level	Cable Loss	Duty Cycle Factor	Field Strength	Limit	Margin Peak	Result
[MHz]		[dBuV]	[dB]	[dB]	[dBuV]	[dBuV]	[dB]	
418.0	V	71.8	6.6	1.3	77.1	80.3	3.2	Pass
418.0	Н	46.9	6.6	1.3	52.2	80.3	28.1	Pass

### Spurious Emissions

Emission Frequency	Ant. Pol.	Maximized Level	Cable Loss	Ant.Factor	Duty Cycle Factor	Field Strength	Limit	Margin	Result
[MHz]		[dBuV]	[dB]	[dB]	[-dB]	[dBuV]	[dBuV]	[dB]	
836.2	V	12.66	5.7	23.5	1.3	40.56	60.3	19.74	Pass
836.2	Н	12.8	5.7	23.5	1.3	40.7	60.3	19.6	Pass
1254.2	V	9.82	14.7	25.5	1.3	48.72	60.3	11.58	Pass
1254.2	Н	11.69	14.7	25.5	1.3	50.59	60.3	9.71	Pass
*1677.2	V	12.43	16.0	25.6	1.3	52.73	54.0	1.27	Pass
*1677.2	Н	11.44	16.0	25.6	1.3	51.74	54.0	2.26	Pass
2090.2	V	15.5	17.6	27.4	1.3	59.2	60.3	1.1	Pass
2090.2	Н	13.3	17.6	27.4	1.3	57.0	60.3	3.3	Pass
2508.2	V	7.6	18.2	28.5	1.3	53.0	60.3	7.3	Pass
2508.2	Н	7.1	18.2	28.5	1.3	52.5	60.3	7.8	Pass
2926.2	V	5.7	20.2	29.6	1.3	54.2	60.3	6.1	Pass
2926.2	Н	5.4	20.2	29.6	1.3	53.9	60.3	6.4	Pass

<sup>\*</sup> denotes restricted band.

- Emissions were searched from the lowest frequency generated to the 10<sup>th</sup> harmonic of the fundamental frequency.
- The DUT was characterized on 3 orthogonal axis. Worst case emissions are reported.
- Data reported was captured using a peak detector.
- The device was tested with fully charged DC cells.

	Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFRC418	IC:	11	133A-GFRC418	
DUT Model: GFRC418		DUT Type:	Radio Remote Control Tx Freq.:		Radio Remote Control		418 MHz	4	
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IC Standard(s): RSS-210		RSS-Gen	IC Test Site No.:	IC 3874A-1

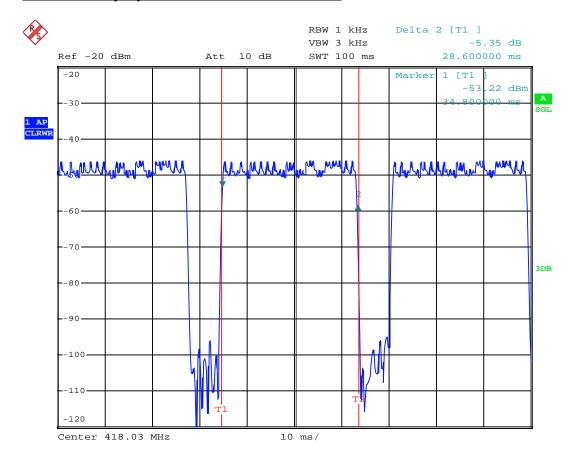


### 7.0 CALCULATION OF DUTY CYCLE

Pulse width = 28.6mSec Number of pulses / 100mSec period = 3 Total on Time/Period = 3x28.6mSec = 85.8mSec.

Duty Cycle Correction Factor (dB) = 20Log (On Time/Period) 20Log (85.8/100) = -1.3dB

### Therefore Duty Cycle Correction Factor = -1.3dB



Date: 22.MAY.2013 19:41:53

Applicant:	В	Brehon Agrisystems Inc. FCC ID: 2AAEG-GFRC418		on Agrisystems Inc.		IC:	11133A-GFRC418	Force Command Systems	
DUT Model:	DUT Model: GFRC418 DUT Type:			Radio Remo	te Control	Tx Freq.	: 418 MHz	Systems /	
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# 8.0 OCCUPIED BANDWIDTH

8.1 References				
Normative Reference Standard	FCC CFR 47 §15.231(c); IC RSS-210 Issue 8			
Procedure Reference	ANSI C63.4			

8.2 Limits	
FCC §15.231(c)	The bandwidth of the emission shall be no wider that 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.
IC RSS-210 A1.1.3	For the purpose of Section A1.1, the 99% bandwidth shall be no wider than 0.25% of the centre frequency for devices operating between 70-900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency.

8.3 Environmental conditions					
Temperature	25 +/- 5 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE	
00015	R&S	FSU40	Spectrum Analyzer	09Apr15	

8.4 Setup drawing			
Figure 8	3.4-1 - Setup Drawing -	Occupied Bandwidth	
	DUT	Spectrum Analyzer	

Applicant:	nt: Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFRC418	IC:	111	133A-GFRC418	Torve !		
DUT Model:	GFRC	418	DUT Type:	Radio Remote Control		Tx Freq.:		418 MHz	farce l	
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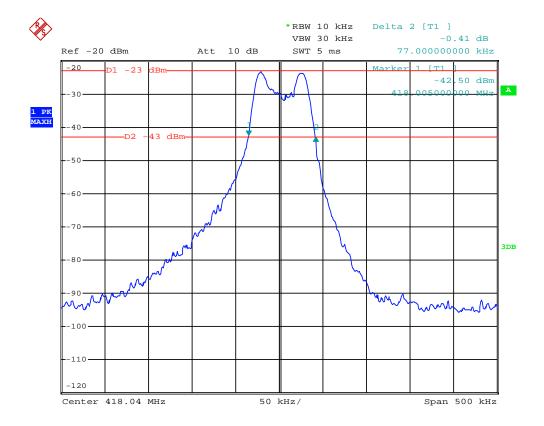


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#### 8.5 Test Data:

20dB Occupied Bandwidth							
TX Frequency	Measured 20dB bandwidth	Limit 20dB bandwidth					
418MHz	77.0 kHz	1.045 MHz					



Date: 22.MAY.2013 20:11:47

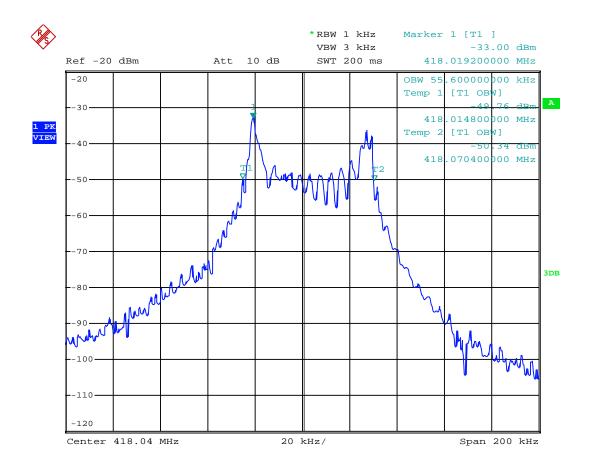
Applicant:	Applicant: Brehon Agrisystems Inc.			FCC ID:	D: 2AAEG-GFRC418		11133A-GFRC418	Force Comm	
DUT Model:	GFRC	418	DUT Type:		Radio Remote Control		Tx Freq.: 418 MHz		Systems
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



99% Occupied Bandwidth							
TX Frequency	Measured 99% bandwidth	Limit 20dB bandwidth					
418MHz	55.6 kHz	1.045 MHz					



Date: 22.MAY.2013 20:14:30

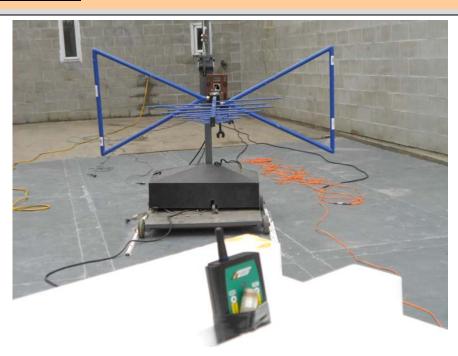
Applicant:	В	reho	n Agrisystems	Inc.	FCC ID: 2AAEG-GFRC418 IC: 11133A-GFF		IC: 11133A-GFRC418		Farce	
DUT Model:	GFRC	418	DUT Type:	Radio Remote Control		Radio Remote Control		.: 418 MHz		Targe 5
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Test Report Serial No.:	130613-T	1230-E-15O	Report Issue Date:	6/17/2013
Measurement Date(s):	May 22-Ju	ine 13, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR §	§2; §15.231	FCC Test Firm Reg. No.:	Accredited
IC Standard(s):	RSS-210 RSS-Gen		IC Test Site No.:	IC 3874A-1



# 9.0 <u>SETUP PHOTOGRAPHS</u>





Applicant:	Brehon Agrisystems Inc.			FCC ID:	D: 2AAEG-GFRC418		11133A-GFRC418
DUT Model:	GFRC41	B DUT Type:	Radio Remote Control Tx Freq.:		Radio Remote Control		.: 418 MHz
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Test Report Serial No.:	130613-T	1230-E-15O	Report Issue Date:	6/17/2013
Measurement Date(s):	May 22-Ju	ine 13, 2013	Report Revision No.:	Revision 1.1
FCC Rule Part(s):	47 CFR §	§2; §15.231	FCC Test Firm Reg. No.:	Accredited
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



### **END OF DOCUMENT**

	Applicant:	В	reho	n Agrisystems	Inc.	FCC ID:	2AAEG-GFRC418	IC:	IC: 11133A-GFRC418		force Command	
	DUT Model:	GFRC	418	DUT Type:		Radio Remote Control		Tx Freq	i:	418 MHz	5) siems	
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