

 Celltech <small>Testing and Engineering Services Ltd</small>	Test Report Serial No.:	180913-T1252-E-15O	Report Issue Date:	9/26/2013	 ILAC-MRA ACCREDITED
	Measurement Date(s):	Sept 13-Sept 20, 2013	Report Revision No.:	Revision 1.0	
	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	CELLTECH LABS INCORPORATED		
		Address	21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada		
Test Lab Registration No.(s)		FCC	Accredited (ISO 17025 - A2LA Test Lab Certificate No. 2470.01)		
		IC	3874A-1		
Applicant Information		Name	Brehon Agrisystems Inc.		
		Address	102-2750 Faithfull Ave., Saskatoon, SK, S7K 6M6		
Standard(s) & Procedure(s)		FCC	47 CFR Part 2; 15.231, 15B		
		IC	RSS-210 Issue 8; RSS-Gen Issue 3		
		ANSI	C63.4-2003		
Device Classification(s)		FCC	Part 15 Periodic Operational Devices (DSC)		
		IC	Low-power License-exempt Momentarily Operated Devices (Category 1)		
Application Type		FCC/IC	New Certification		
Device Identifier(s)		FCC ID:	2AAEG-GFCS916		
		IC ID:	11133A-GFCS916		
Device Under Test (DUT)		Remote control momentarily operated transmitter.			
Device Model(s) Tested		GFCS916			
<p>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.</p>					
<p>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.</p>					
<p>The results and statements contained in this report pertain only to the device(s) evaluated. This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc.</p>					
Test Report Approved By				Glen Westwell	
				Celltech Labs Inc.	

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	 Force Command Systems
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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GENERAL REMARKS

This report shall not be reproduced partially or in full without the prior written approval of Celltech Labs Inc. The results and statements contained in this report pertain only to the device(s) evaluated.

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	9/26/2013

Test Report Prepared By	Date	QA Review By	Date
Glen Westwell	9/26/2013	Mike Meaker	9/26/2013

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916		DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz
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	IC Standard(s):	RSS-210	IC Test Site No.:	IC 3874A-1



Test Lab Certificate No. 2470.01

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 916 MHz low power transmitter.	
Device Model(s)	GFCS916	
Test Sample Serial No.	T/A Sample - Identical Prototype	
Device Identifier(s)	FCC ID:	2AAEG-GFCS916
	IC ID:	11133A-GFCS916
Transmit Frequency Range	916 MHz	
No. of Channels	1	
Measured Field Strength	80.86 dBuV/m@3m	
Modulation	FM	
Antenna	Integral, Omni directional Whip	
TX Duty Cycle	49.3% on time (-6.14dB correction)	
Emission Designator	127K0F1D	
DUT Power Source	9 VDC Battery, DC Cell	
Type of Equipment	DSC, Periodic operation device / Momentarily operated device.	
Deviation(s) from standard/procedure	None	
Modification of DUT	None	
Applicable Standards	FCC Part 15.231, IC RSS-210	

Notes:

- (1) This radio transmitter is intended for use with a dedicated receiver that is not part of this equipment authorization.
- (2) The receiver was tested and approved separately following the Declaration of Conformity procedure. As such the manufacturer will follow all DoC requirements for marketing this product.

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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	IC Standard(s):	RSS-210 RSS-Gen	IC Test Site No.:	IC 3874A-1	

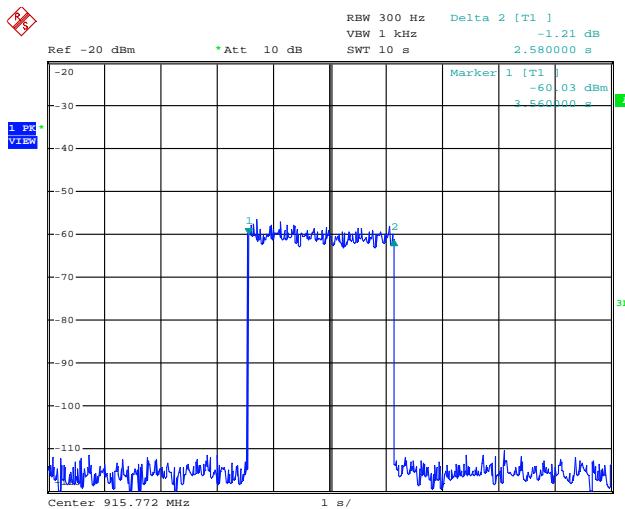
DEVICE OPERATION

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?		X
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? If 'Yes', does it do a system integrity check? How often?		X
9	Is this a fire, security, or safety of life device? If 'Yes' does the device stop transmitting after the alarm condition is satisfied?		X
10	Duty cycle: Maximum on time? If 'Yes' on-time in 100mS? If other please specify here. On time = 85.8mS / 100mS	X	
11	Modulation technique: Please specify the modulation of the test sample, FM or AFSK, or FSK, or On-Off Keying, or others?	FM	

*Transmitter manual de-activation plot.

The device deactivates immediately upon release.

Marker 2 = transmitter release event.



Date: 13.SEP.2013 19:31:33

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916		DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz
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	IC Standard(s):	RSS-210 RSS-Gen	IC Test Site No.:	IC 3874A-1



Test Lab Certificate No. 2470.01

5.0 FIELD STRENGTH OF THE FUNDAMENTAL AND SPURIOUS EMISSIONS

5.1 References

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

5.2 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

¹Linear 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 Section 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

¹Linear interpolations

5.3 Environmental conditions

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

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916		DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz
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	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

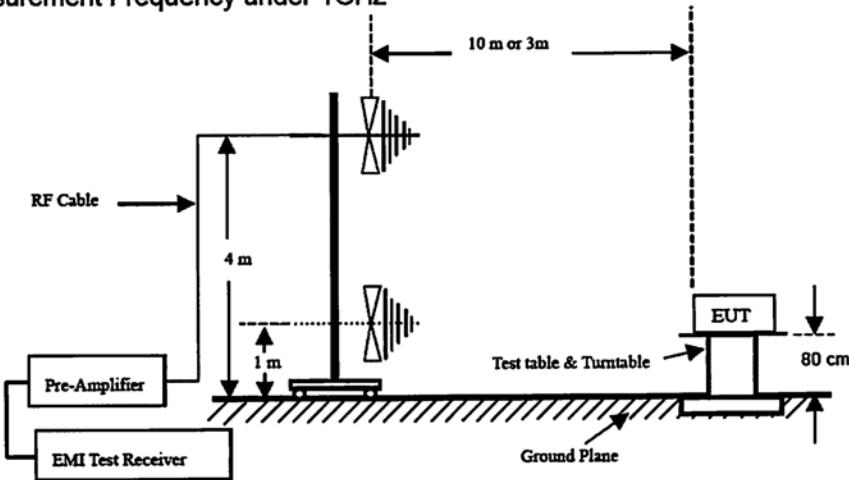
5.4 Equipment list

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00051	HP	8566B	Spectrum Analyzer RF Section	10 May14
00049	HP	85650A	Quasi-peak Adapter	10 May14
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
00044	Microwave ccts	H1G318G1	Pass Band Filter	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
00085	ETS Lindgren	6502	Active Loop Antenna	03 Jun 2015

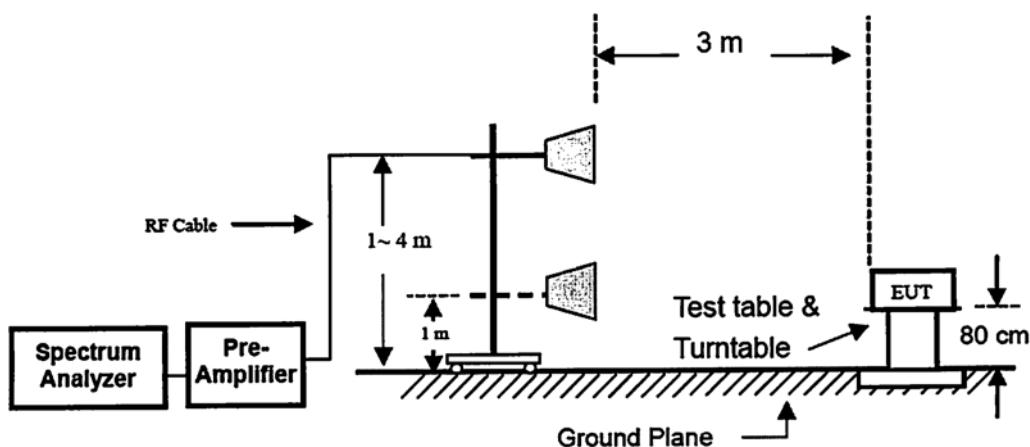
Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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5.5 Test Measurement Configuration.

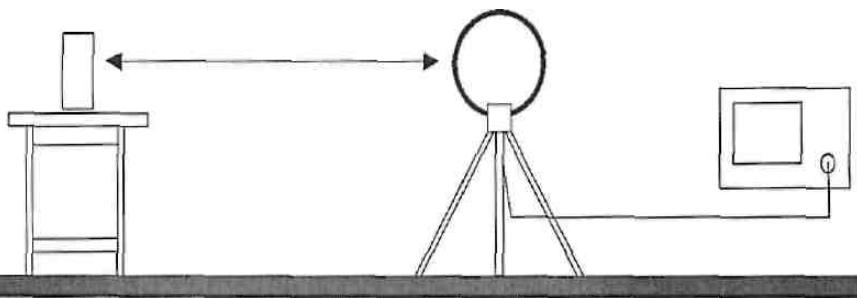
Measurement Frequency under 1GHz



Measurement Frequency above 1GHz



Measurement Frequency under 30 MHz



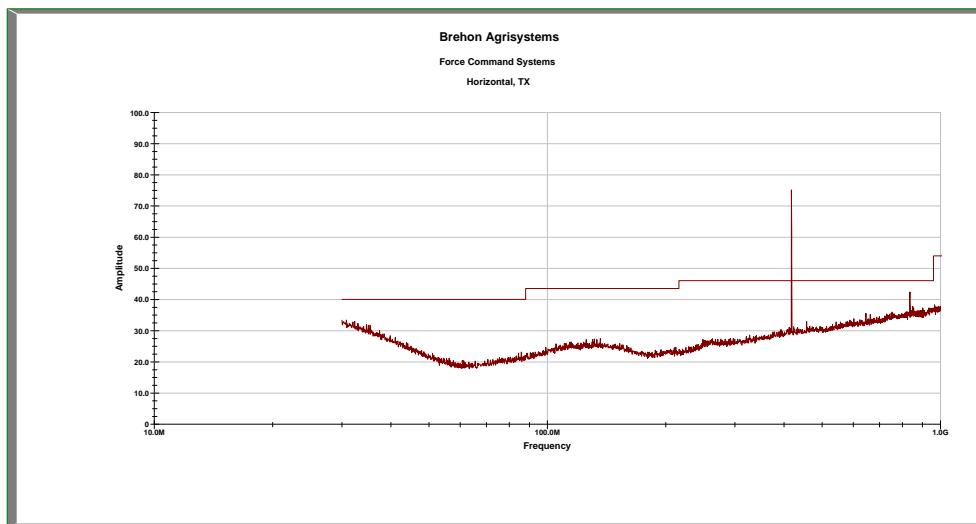
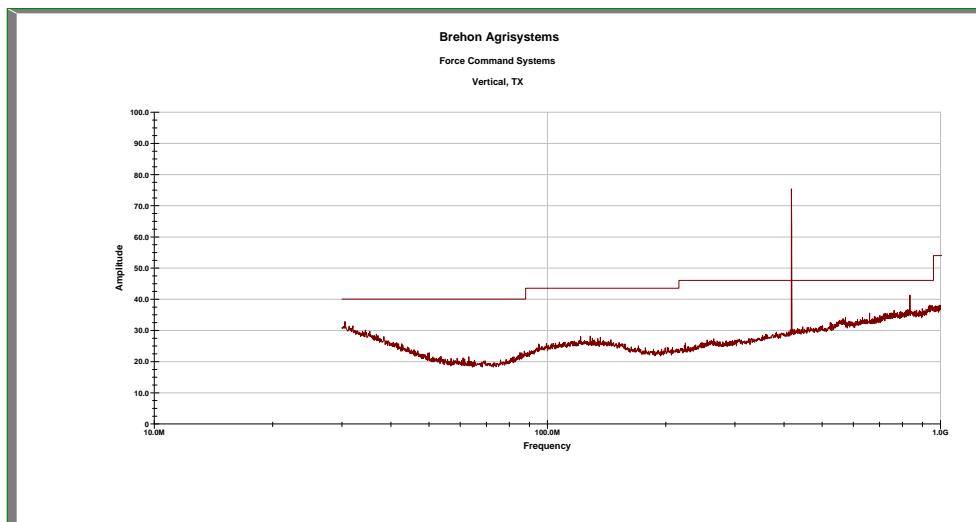
Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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	IC Standard(s):	RSS-210 RSS-Gen	IC Test Site No.:	IC 3874A-1



Test Lab Certificate No. 2470.01

TX Radiated Emissions Scan, 30 MHz-1GHz



- Emissions for the transmitter and receiver were searched from the lowest frequency generated to the 10th harmonic of the fundamental frequency.
- The DUT was characterized on 3 orthogonal axis. Worst case emissions are reported.
- All detected emissions are reported.
- Data reported was captured using a peak detector.
- The transmitter was tested with fully charged DC cells.
- N.D. = Not Detected.

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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Test Lab Certificate No. 2470.01

Fundamental Emission

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]	
916.0	V	56.6	2.9	27.5	-6.14	80.86	82.0	-1.14	Pass
916.0	H	47.7	2.9	27.5	-6.14	71.96	82.0	-10.04	Pass

Spurious Emissions

Emission Frequency	Antenna Pol.	Emission Level (dBuV/m) @1m	Antenna Factor	Cable Loss/Amp Gain Corr.	Duty Cycle Corr. Factor	Distance Correction	Emission Level (dBuV/m@3m)	Limit (avg)	Margin	Result
[MHz]		[dBuV]	[dB]	[-dB]	[-dB]	[-dB]	[dBuV]	[dBuV]	[dB]	
1832.0	V	54.2	26.8	-25.9	-6.14	-9.54	39.42	62.0	-22.58	Pass
1832.0	H	56.5	26.8	-25.9	-6.14	-9.54	41.72	62.0	-20.28	Pass
* 2748.0	V	46.6	28.7	-25.1	-6.14	-9.54	34.52	54.0	-19.48	Pass
* 2748.0	H	46.6	28.7	-25.1	-6.14	-9.54	34.52	54.0	-19.48	Pass
* 3664.0	V	42.5	31.5	-24.2	-6.14	-9.54	34.12	54.0	-19.88	Pass
* 3664.0	H	42.0	31.5	-24.2	-6.14	-9.54	33.62	54.0	-20.38	Pass
* 4580.0	V	37.4	32.3	-23.5	-6.14	-9.54	30.52	54.0	-23.48	Pass
* 4580.0	H	37.8	32.3	-23.5	-6.14	-9.54	30.92	54.0	-23.08	Pass
5496.0	V	33.5	34.1	-22.9	-6.14	-9.54	29.02	62.0	-32.98	Pass
5496.0	H	N.D.	34.1	-22.9	-6.14	-9.54	---	62.0	---	Pass
6412.0	V	N.D.	34.3	-22.4	-6.14	-9.54	---	62.0	---	Pass
6412.0	H	N.D.	34.3	-22.4	-6.14	-9.54	---	62.0	---	Pass
* 7328.0	V	N.D.	36.4	-21.8	-6.14	-9.54	---	54.0	---	Pass
* 7328.0	H	N.D.	36.4	-21.8	-6.14	-9.54	---	54.0	---	Pass
* 8244.0	V	N.D.	36.8	-20.9	-6.14	-9.54	---	54.0	---	Pass
* 8244.0	H	N.D.	36.8	-20.9	-6.14	-9.54	---	54.0	---	Pass
9140.0	V	N.D.	37.3	-20.7	-6.14	-9.54	---	62.0	---	Pass
9140.0	H	N.D.	37.3	-20.7	-6.14	-9.54	---	62.0	---	Pass

* denotes restricted band.

- Emissions for the transmitter and receiver were searched from the lowest frequency generated to the 10th harmonic of the fundamental frequency.
- The DUT was characterized on 3 orthogonal axis. Worst case emissions are reported.
- All detected emissions are reported.
- Data reported was captured using a peak detector.
- The transmitter was tested with fully charged DC cells.
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Test Lab Certificate No. 2470.01

Calculation of Duty Cycle:

Pulse width (small pulse) = 159.9 uSec

Number of pulses / 5mSec period = 6, 6 pulses x 159.9uS = 0.96 mS/5mS

Therefore: 0.96 mS x 20 = 19.19 mS/100mS.

Pulse width (large pulse) = 309.9uSec

Number of pulses / 5mSec period = 5, 5 pulses x 309.9uS = 1.55mS/5mS

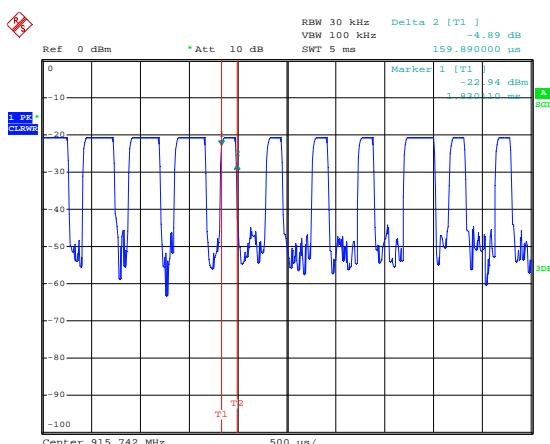
Therefore: 1.55mS x 20 = 30.1mS/100mS.

Total on Time/Period = 19.19mSec + 30.1mSec = 49.3mSec.

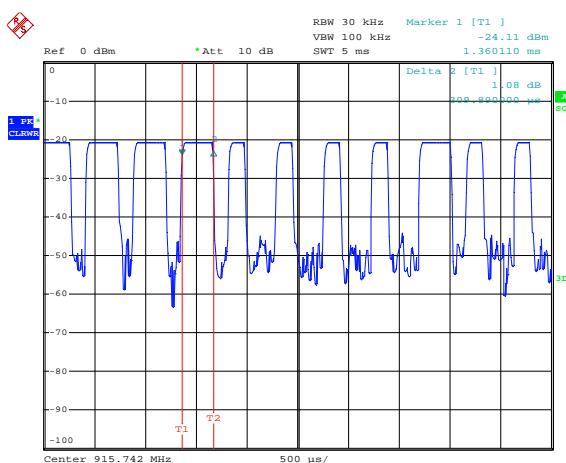
Duty Cycle Correction Factor (dB) = 20Log (On Time/Period)

20Log (49.3/100) = -6.14dB

Therefore Duty Cycle Correction Factor = -6.14dB



Date: 13.SEP.2013 18:36:07



Date: 13.SEP.2013 18:37:34

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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Test Lab Certificate No. 2470.01

6.0 OCCUPIED BANDWIDTH

6.1 References

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

6.2 Limits

FCC §15.231(c)	The bandwidth of the emission shall be no wider than 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.

6.3 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

6.4 Setup drawing



Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916		DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz
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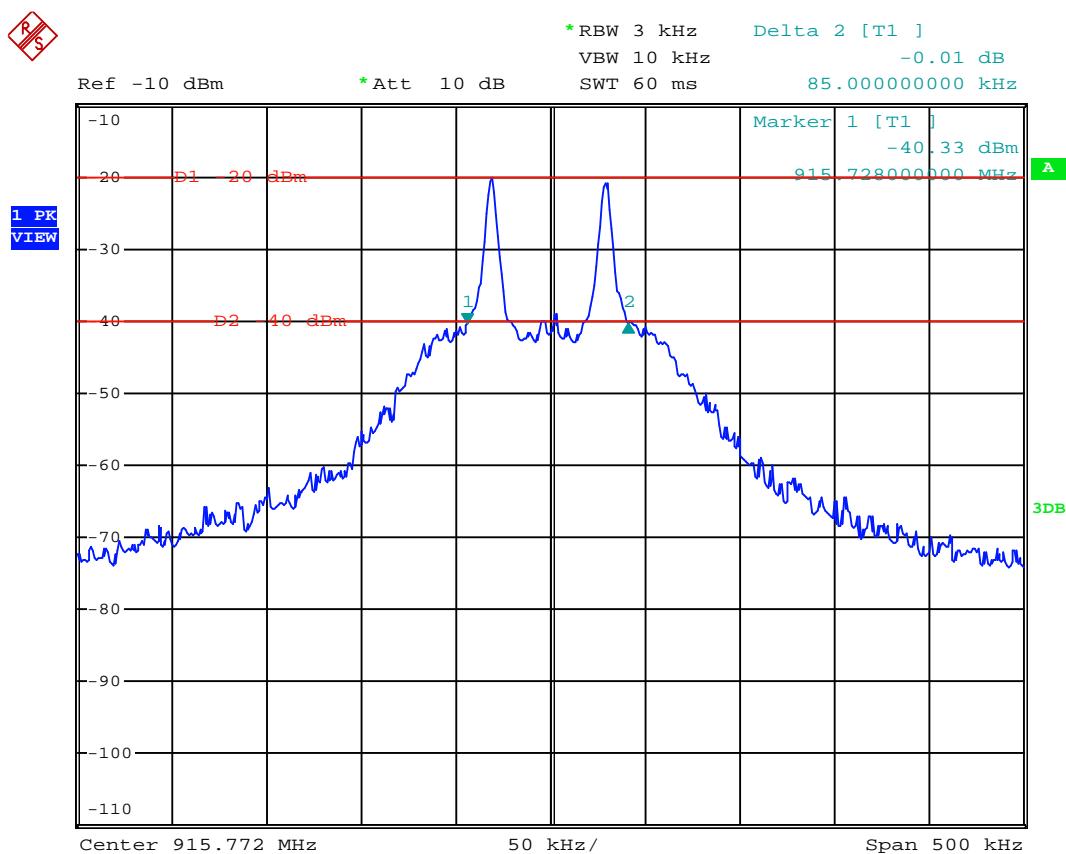
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Test Lab Certificate No. 2470.01

6.5 Test Data:

20dB Occupied Bandwidth		
TX Frequency	Measured 20dB bandwidth	Limit 20dB bandwidth
916 MHz	85.0 kHz	183.2 MHz



Date: 13.SEP.2013 19:56:35

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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Test Report Serial No.: 180913-T1252-E-15O
Measurement Date(s): Sept 13-Sept 20, 2013
FCC Rule Part(s): 47 CFR §2; §15.231
IC Standard(s): RSS-210 RSS-Gen

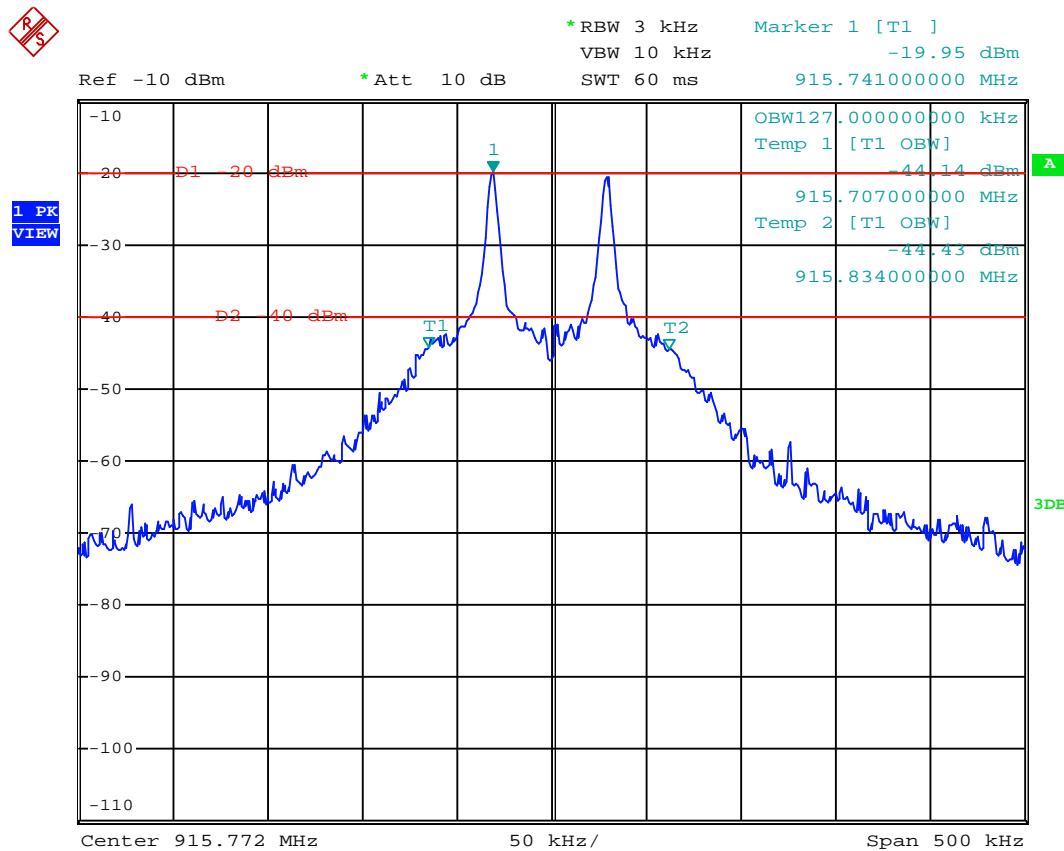
Report Issue Date: 9/26/2013
Report Revision No.: Revision 1.0
FCC Test Firm Reg. No.: Accredited
IC Test Site No.: IC 3874A-1



Test Lab Certificate No. 2470.01

99% Occupied Bandwidth

TX Frequency	Measured 99% bandwidth	Limit 20dB bandwidth
916 MHz	127.0 kHz	183.2 MHz



Date: 13.SEP.2013 20:04:46

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916		DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz
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Test Report Serial No.: 180913-T1252-E-15O
Measurement Date(s): Sept 13-Sept 20, 2013
FCC Rule Part(s): 47 CFR §2; §15.231
IC Standard(s): RSS-210 RSS-Gen

Report Issue Date: 9/26/2013
Report Revision No.: Revision 1.0
FCC Test Firm Reg. No.: Accredited
IC Test Site No.: IC 3874A-1



Test Lab Certificate No. 2470.01

7.0 SETUP PHOTOGRAPHS

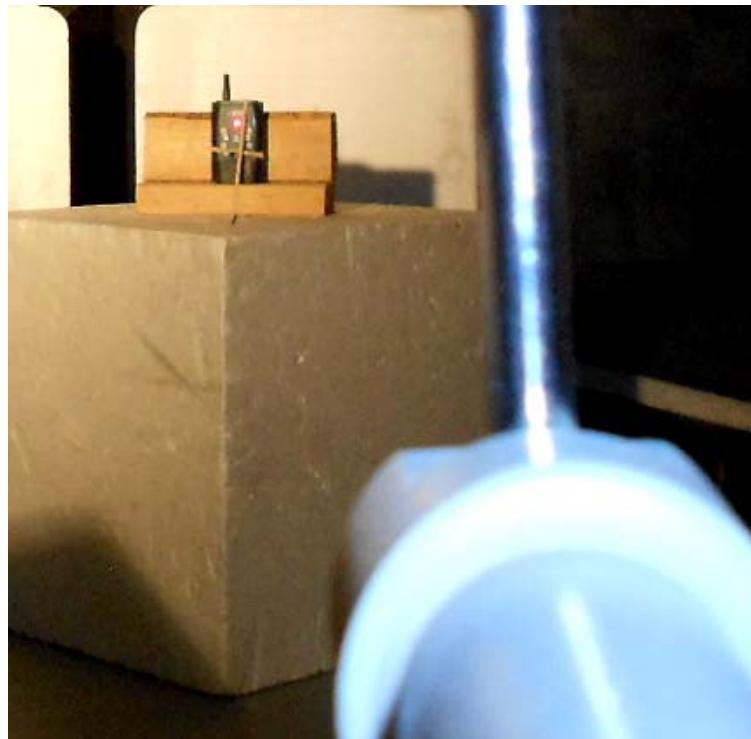


Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916	DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz	
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 Celltech <small>Testing and Engineering Services Lab</small>	Test Report Serial No.:	180913-T1252-E-15O	Report Issue Date:	9/26/2013
	Measurement Date(s):	Sept 13-Sept 20, 2013	Report Revision No.:	Revision 1.0
	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



Test Lab Certificate No. 2470.01



Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916		DUT Type:	Transmitter Remote Control		Tx Freq.:	
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	Test Report Serial No.:	180913-T1252-E-15O	Report Issue Date:	9/26/2013
	Measurement Date(s):	Sept 13-Sept 20, 2013	Report Revision No.:	Revision 1.0
	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



Test Lab Certificate No. 2470.01

END OF DOCUMENT

Applicant:	Brehon Agrisystems Inc.		FCC ID:	2AAEG-GFCS916	IC:	11133A-GFCS916	
DUT Model:	GFCS916		DUT Type:	Transmitter Remote Control		Tx Freq.:	916 MHz
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