

| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|----------|-------------|-------------------------|--------------|
| Measurement Date(s): | Nov 11 | -25, 2015 | 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 |



| | RF MEASUREMENT REPORT | FCC & IC | | | | |
|-------------|---|--|--|--|--|--|
| Name | CELLTECH LABS INCORPORATED | | | | | |
| Address | 21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada | | | | | |
| FCC | Accredited (ISO 17025 - A2LA Test Lab Certificate No. 24 | 70.01) | | | | |
| IC | 3874A-1 | | | | | |
| Name | Kramble Industries Inc. | | | | | |
| Address | 102-2750 Faithfull Ave., Saskatoon, SK, S7K 6M6 | | | | | |
| FCC | 47 CFR Part 2; 15.231, 15B | | | | | |
| IC | RSS-210 Issue 8; RSS-Gen Issue 4 | | | | | |
| ANSI | C63.4-2014 | | | | | |
| FCC | Part 15 Periodic Operational Devices (DSC) | | | | | |
| IC | Low-power License-exempt Momentarily Operated Devices (Category 1) | | | | | |
| FCC/IC | New Certification | | | | | |
| FCC ID: | 2AHDO- FBSXLDR | | | | | |
| IC ID: | 21117- FBSXLDR | | | | | |
| Momentarily | arily Operated Transmitter. | | | | | |
| FBAr4 | | | | | | |
| | Address FCC IC Name Address FCC IC ANSI FCC IC FCC/IC FCC/IC FCC ID: IC ID: Momentarily | Address 21-364 Lougheed Road, Kelowna, British Columbia V1X 7 FCC Accredited (ISO 17025 - A2LA Test Lab Certificate No. 24) IC 3874A-1 Name Kramble Industries Inc. Address 102-2750 Faithfull Ave., Saskatoon, SK, S7K 6M6 FCC 47 CFR Part 2; 15.231, 15B IC RSS-210 Issue 8; RSS-Gen Issue 4 ANSI C63.4-2014 FCC Part 15 Periodic Operational Devices (DSC) IC Low-power License-exempt Momentarily Operated Device FCC/IC New Certification FCC ID: 2AHDO- FBSXLDR IC ID: 21117- FBSXLDR Momentarily Operated Transmitter. | | | | |

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 C63.4-2014.

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. This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc.

| Test Report Approved By | Shillivers | Art Voss | Celltech Labs Inc. |
|-------------------------|------------|----------|--------------------|
|-------------------------|------------|----------|--------------------|

| Ap | oplicant: | | Kramb | Kramble Industries Inc FCC ID: 2AHDO-FBSXLDR IC: 21117-FBSXLDR | | | | | Force Command | |
|------|--|-----|-------|--|---|----------------------------|--|--------------|---------------|-----------|
| DU. | IT Model: | FBA | r4 | DUT Type: | 7 | Transmitter Remote Control | | Tx Freq | .: 916 MHz | 5) sivins |
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| Applicant: | K | amble Industries | Inc | FCC ID: | FCC ID: 2AHDO-FBSXLDR | | 21 | 1117-FBSXLDR | |
|------------------|----------|----------------------|--|--------------------|---------------------------------|--------------|------|--------------------|---|
| DUT Model: | FBAr4 | DUT Type: | T Type: Transmitter Remote Control Tx Freq.: | | Transmitter Remote Control | | :: | 916 MHz | |
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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 | Art Voss | 2/4/2016 |

| Test Report Prepared By | Date | QA Review By | Date |
|-------------------------|----------|--------------|----------|
| Art Voss | 2/4/2016 | Art Voss | 2/4/2016 |

| Applicant: | | Kram | ble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | IC: 21117-FBSXLDR | | |
|------------------|----------|------|-----------------|--------------|----------------------------|---|---------|-------------------|-----------|--|
| DUT Model: | FBA | r4 | DUT Type: | 1 | Transmitter Remote Control | | Tx Freq | .: 916 MHz | Tarce Com | |
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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 C63.4-2014 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 4 - 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: | | Kramble Industries Inc | | | FCC ID: | 2AHDO-FBSXLDR | IC: 21117-FB | | 117-FBSXLDR | Force Co. |
|---|------------|-----|------------------------|--------------------|---------------------------------|----------------------------|---------------|--------------------|----------|-------------|-----------|
| | DUT Model: | FBA | r4 | DUT Type: | 7 | Transmitter Remote Control | | Tx Freq.: | | 916 MHz | 5)ste |
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| IC Standard(s): RSS-2 | | RSS-Gen | IC Test Site No.: | IC 3874A-1 |



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) | FBAr4 | | | | |
| Test Sample Serial No. | T/A Sample - | T/A Sample - Identical Prototype | | | |
| Device Identifier(s) | FCC ID: | 2AHDO-FBSXLDR | | | |
| Device identifici(3) | IC ID: | 21117- FBSXLDR | | | |
| Transmit Frequency Range | 915.8 MHz | | | | |
| No. of Channels | 1 | | | | |
| Measured Field Strength | 78.3 dBuV/m@3m | | | | |
| Modulation | FM | FM | | | |
| Antenna | External, Omni directional Whip | | | | |
| TX Duty Cycle | 100%, 50% and 10%, no duty cycle correct used | | | | |
| Emission Designator | 138KF1D | | | | |
| 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 manufacture will follow all DoC requirements for marketing this product.

| Applicant: | | Kramble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force Command |
|---|-----|--------------------|-----|---------------------------------|---------------|-------------------------|---------------|-----------------------------|
| DUT Model: | FBA | r4 DUT Type: | 1 | ransmitter Remote Control | | Tx Freq | .: 916 MHz | Force Command 5) siems |
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| FCC Rule Part(s): | 47 CFR § | §2; §15.231 | FCC Test Firm Reg. No.: | Accredited |
| IC Standard(s): RSS-2 | | RSS-Gen | IC Test Site No.: | IC 3874A-1 |



5.0 GENERAL DESCRIPTION OF OPERATION, FCC PART 15.231(A)

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

The device is suspended to the end of a manually operated grain chute used to fill a grain bin. During the fill process, the device hangs in a vertical orientation. When the grain reaches the level of the device, its orientation is no longer vertical and the transmitter is activated, notifying the operator that the bin is full. The operator discontinues the filling process pulling the fill chute from the bin. This deactivates the device which immediately deactivates the transmitter. The transmitter deactivates in less than 5 seconds.

| Ap | pplicant: | Kramble Industries Inc | | | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force Command |
|--|-----------|------------------------|---------------------|---------------------------------|--------------|---------------------------|---------------|---------|---------------|--------------------------|
| DU | JT Model: | FBA | r4 | DUT Type: | 1 | ransmitter Remote Control | | Tx Freq | .: 916 MHz | Gorce Commund Systems |
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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 C63.4:2014 | | | |

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 |
| ¹ 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 | | |
| ¹ Linear interpolations | | | | |

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

| | Applicant: | | Kramble Ind | dustries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | force Command | |
|--|------------|-----|-----------------|---------------|---------------------|---------------------------------|---------------|-------------------------|---------------|--------------------------|--|
| | DUT Model: | FBA | FBAr4 DUT Type: | | 1 | ransmitter Rei | mote Control | Tx Freq. | : 916 MHz | force Command Systems | |
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| IC Standard(s): | RSS-210 | RSS-Gen | IC Test Site No.: | IC 3874A-1 |



6.4 Equipment List

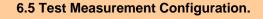
| Asset Number | Manufacturer | Model Number | Description | Last Calibrated | Calibration Interval | Calibration Due |
|-----------------|--------------|---------------------|------------------------------|--------------------|-------------------------|--------------------|
| 00051 | HP | 8566B | Spectrum Analyzer RF Section | 30 Apr 2014 | Biennial | 30 Apr 2016 |
| 00049 | HP | 85650A | Quasi-peak Adapter | 30 Apr 2014 | Biennial | 30 Apr 2016 |
| 00047 | HP | 85685A | RF Preselector | 30 Apr 2014 | Biennial | 30 Apr 2016 |
| 00072 | EMCO | 2075 | Mini-mast | n/a | n/a | n/a |
| 00073 | EMCO | 2080 | Turn Table | n/a | n/a | n/a |
| 00071 | EMCO | 2090 | Multi-Device Controller | n/a | n/a | n/a |
| 00265 | Miteq | JS32-00104000-58-5P | Microwave L/N Amplifier | COU | n/a | COU |
| 00241 | R&S | FSU40 | Spectrum Analyzer | 23 Apr 2015 | Biennial | 23 Apr 2017 |
| 00050 | Chase | CBL-6111A | Bilog Antenna | 25 Apr 2014 | Biennial | 25 Apr 2016 |
| 00275 | Coaxis | LMR400 | 25m Cable | COU | n/a | COU |
| 00276 | Coaxis | LMR400 | 4m Cable | COU | n/a | COU |
| 00278 | TILE | 34G3 | TILE Test Software | NCR | n/a | NCR |
| 00034 | ETS | 3115 | Double Ridged Guide Horn | 06 Dec 2012 | Triennial | 06 Dec 2015 |

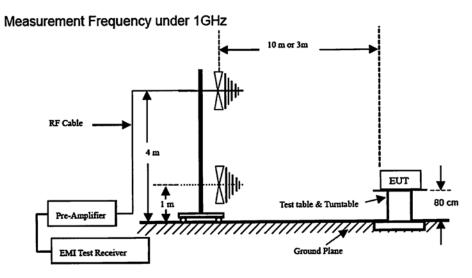
| Applicant: | F | Kramble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force (manual) |
|------------------|--|--------------------|-----|----------------|---------------------------------|--------------|-------------------------|--------------------------|
| DUT Model: | FBAr | 4 DUT Type: | 1 | Fransmitter Re | mote Control | Tx Freq | .: 916 MHz | Facco Command Systems |
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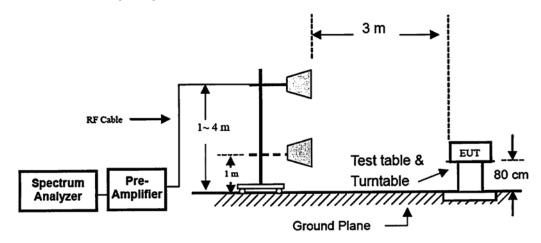
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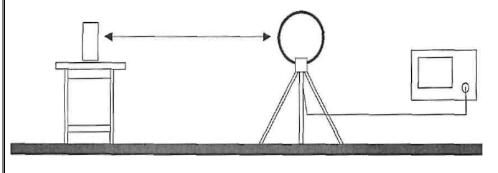




Measurement Frequency above 1GHz



Measurement Frequency under 30 MHz



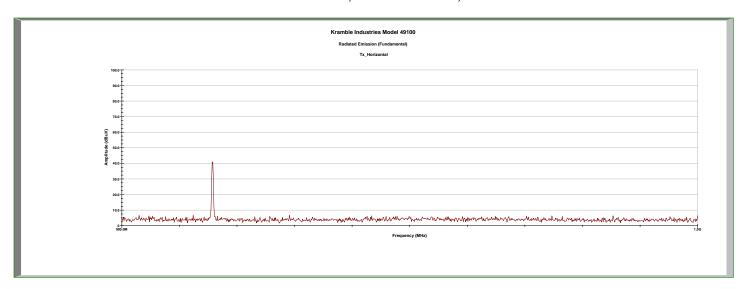
| Applicant: | | Kran | nble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21 | 1117-FBSXLDR | Force Com |
|------------------|----------|------|-------------------|--------------|--------------------|---------------------------------|--------------|------------|--------------------|-----------|
| DUT Model: | FBA | r4 | DUT Type: | 7 | ransmitter Re | mote Control | Tx Freq | .: 916 MHz | | 5)sten |
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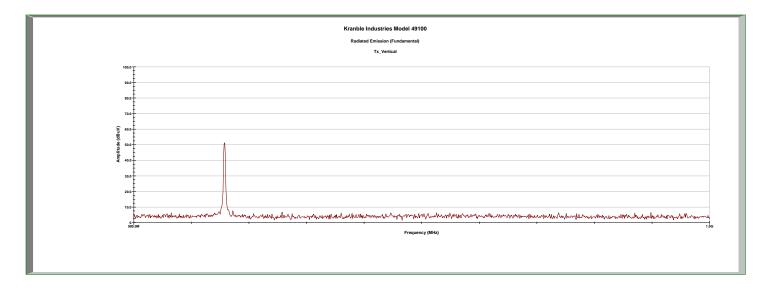
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TX Radiated Emissions Scan, 900 MHz-1GHz, Horizontal



TX Radiated Emissions Scan, 900 MHz-1GHz, Vertical



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

| Applicant: | | Kram | ble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force Command |
|--|-------------------|------|-----------------|----------------------------|--------------------|---------------------------------|--------------|-------------------------|---------------|
| DUT Model: | : FBAr4 DUT Type: | | 7 | Transmitter Remote Control | | | .: 916 MHz | 5)siums | |
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Fundamental Emission

 $\label{eq:energy} E \ (dBuV/m)@3m = V(dBuV)@3m + AF_{Bilog} + CL_{Total} + CL_{4m}$

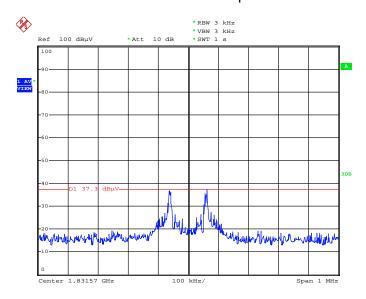
Where:

AF_{Bilog} = Antenna Factor of Bilog Antenna

CL_{Total} = Cable Loss of 25m Cable + Cable Loss of 4m Cable

| 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] | |
| 915.8 | Н | 40.9 | 3.6 | 23.6 | 0 | 68.1 | 82.0 | -13.9 | Pass |
| 915.8 | V | 51.2 | 3.6 | 23.5 | 0 | 78.3 | 82.0 | -3.7 | Pass |

Spurious Emissions 1GHz to 10GHz



Date: 20.NOV.2015 14:36:14

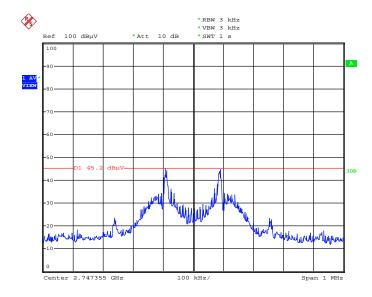
2nd Harmonic – 1.83GHz, Horizontal V @ 3m = 37.3dBuV

| Applicant: | | Kran | nble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | | Force Comm |
|------------------|---|------|-----------------|-----|----------------|---------------|---------|---------------|--|------------|
| DUT Model: | FBA | r4 | DUT Type: | 7 | Transmitter Re | mote Control | Tx Freq | .: 916 MHz | | 5)sivms |
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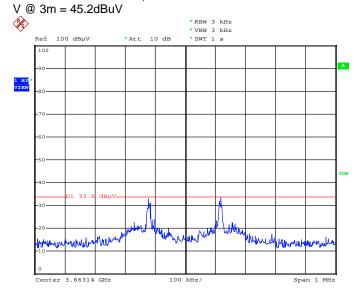
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| FCC Rule Part(s): | 47 CFR § | §2; §15.231 | FCC Test Firm Reg. No.: | Accredited |
| IC Standard(s): | RSS-210 | RSS-Gen | IC Test Site No.: | IC 3874A-1 |





Date: 20.NOV.2015 14:37:27

3rd Harmonic – 2.75GHz, Horizontal



Date: 20.NOV.2015 14:38:36

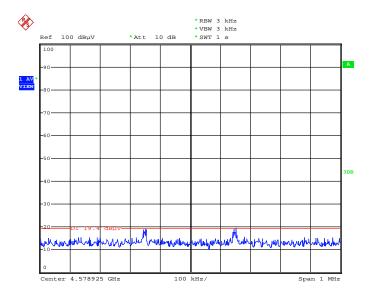
4th Harmonic – 3.66GHz, Horizontal V @ 3m = 33.6dBuV

| Applicant: | | Kramble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force Command |
|--|-----|--------------------|-----|---------------|---------------|---------|---------------|--------------------------|
| DUT Model: | FBA | r4 DUT Type: | 1 | ransmitter Re | mote Control | Tx Freq | .: 916 MHz | Gorçe Commund Systems |
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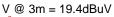
| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|----------|-------------|-------------------------|--------------|
| Measurement Date(s): | Nov 11 | -25, 2015 | Report Revision No.: | Revision 1.1 |
| FCC Rule Part(s): | 47 CFR § | §2; §15.231 | FCC Test Firm Reg. No.: | Accredited |
| IC Standard(s): | RSS-210 | RSS-Gen | IC Test Site No.: | IC 3874A-1 |

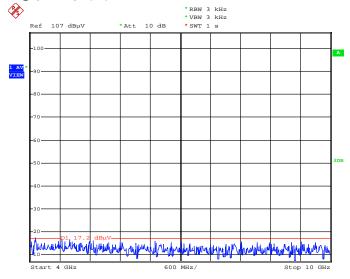




Date: 20.NOV.2015 14:39:26

5th Harmonic – 4.58GHz, Horizontal





Date: 20.NOV.2015 14:55:00

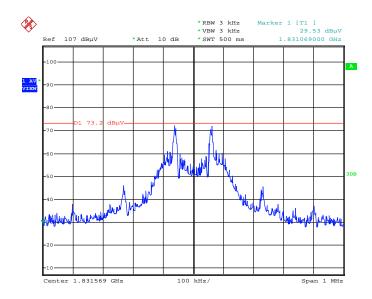
Measurement Scan - 4GHz to 10GHz, Horizontal Max V @ 3m = 17.2dBuV

| Applicant: | | Kramble Industries Inc | | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force (manusad) | |
|------------------|---------|------------------------|---|----------------|------------------------|-----|---------------|-----------------|--|
| DUT Model: | FBA | DUT Type: | 1 | Fransmitter Re | smitter Remote Control | | .: 916 MHz | force Communit | |
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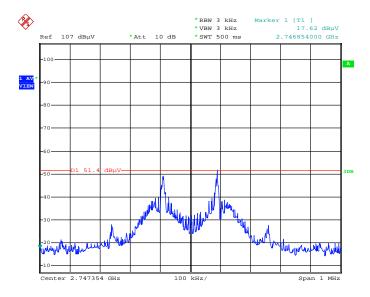
| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|----------|-------------|-------------------------|--------------|
| Measurement Date(s): | Nov 11 | -25, 2015 | Report Revision No.: | Revision 1.1 |
| FCC Rule Part(s): | 47 CFR § | §2; §15.231 | FCC Test Firm Reg. No.: | Accredited |
| IC Standard(s): | RSS-210 | RSS-Gen | IC Test Site No.: | IC 3874A-1 |





Date: 20.NOV.2015 15:22:16

2nd Harmonic – 1.83GHz, Vertical V @ 3m = 73.2dBuV



Date: 20.NOV.2015 15:23:01

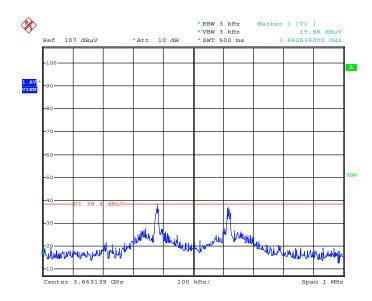
 3^{rd} Harmonic – 2.75GHz, Vertical V @ 3m = 51.4dBuV

| Applicant: | | Kramble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force Command |
|--|-----|--------------------|-----|--|---------------|--------------------------|---------------|---------------|
| DUT Model: | FBA | r4 DUT Type: | 1 | Transmitter Remote Control Tx Freq.: 916 MHz | | Force Command Systems | | |
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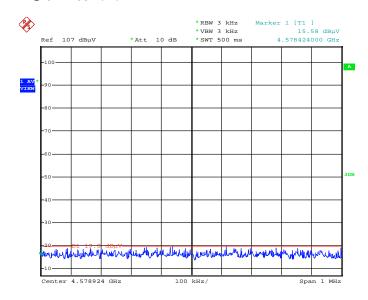
| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|-----------------|-------------|-------------------------|--------------|
| Measurement Date(s): | Nov 11 | -25, 2015 | Report Revision No.: | Revision 1.1 |
| FCC Rule Part(s): | 47 CFR § | §2; §15.231 | FCC Test Firm Reg. No.: | Accredited |
| IC Standard(s): | RSS-210 RSS-Gen | | IC Test Site No.: | IC 3874A-1 |





Date: 20.NOV.2015 15:23:35

4th Harmonic – 3.66GHz, Vertical V @ 3m = 38.4dBuV



Date: 20.NOV.2015 15:24:09

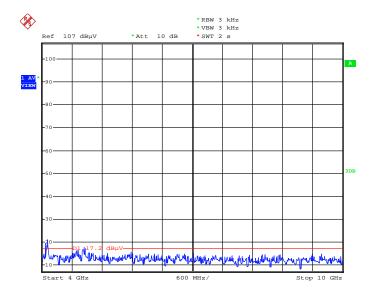
5th Harmonic –4.58GHz, Vertical V @ 3m = 19.8dBuV

| Applicant: | | Kramble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | force Command |
|--|-----|--------------------|-----|----------------|---------------|---------|---------------|---------------|
| DUT Model: | FBA | r4 DUT Type: | 7 | Transmitter Re | mote Control | Tx Freq | .: 916 MHz | Systems |
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| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|----------|-------------|-------------------------|--------------|
| Measurement Date(s): | Nov 11 | -25, 2015 | 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 |





Date: 20.NOV.2015 15:27:27

Measurement Scan 4GHz to 10GHz, Vertical Max V @ 3m = 17.2dBuV

| Applicant: | | Kram | nble Industries | Inc | FCC ID: | 2AHDO-FBSXLDR | IC: 21117-FBSXLDR | | Force Commi | |
|------------------|---------|------|-------------------|--|----------------------------|---------------|-------------------|-------------------|-------------|--------------|
| DUT Model: | FBA | r4 | DUT Type: | 7 | Transmitter Remote Control | | | Tx Freq.: 916 MHz | | 5)sivnis |
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| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|----------|-------------|-------------------------|--------------|
| Measurement Date(s): | Nov 11 | -25, 2015 | 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 |



 $E(dBuV/m)@3m = V(dBuV)@3m + AF_{Horn} + CL_{Total} + CL_{4m} + G_{PreAmp}$

Where:

AF_{Horn} = Antenna Factor of Horn Antenna (+dB)

CL_{Total} = Cable Loss of 25m Cable (+dB) + Cable Loss of 4m Cable (+dB)

 $G_{PreAmp} = Gain of PreAmp (-dB)$

| Emission Frequency | Antenna Pol. | Emission Level (dBuV/m) @3m | Antenna Factor | Cable Loss | PreAmp Gain | Emission Level (dBuV/m@3m) | Limit (avg) | Margin | Result |
|-----------------------|-----------------|-----------------------------------|-------------------|---------------|----------------|----------------------------------|-------------|--------|--------|
| [MHz] | | [dBuV] | [dB] | [dB] | [-dB] | [dBuV] | [dBuV] | [dB] | |
| 1832.0 | V | 73.2 | 26.7 | 3.7 | 54.5 | 49.1 | 62.0 | -12.9 | Pass |
| 1832.0 | Н | 37.3 | 26.8 | 3.7 | 54.5 | 13.3 | 62.0 | -48.7 | Pass |
| * 2748.0 | ٧ | 51.4 | 28.8 | 5.6 | 54.0 | 31.8 | 54.0 | -22.2 | Pass |
| * 2748.0 | Н | 45.2 | 28.9 | 5.6 | 54.0 | 25.7 | 54.0 | -28.3 | Pass |
| * 3664.0 | V | 38.4 | 31.3 | 7.2 | 53.6 | 23.3 | 54.0 | -30.7 | Pass |
| * 3664.0 | Н | 33.6 | 31.3 | 7.2 | 53.6 | 18.5 | 54.0 | -35.5 | Pass |
| * 4580.0 | V | 19.8 | 32.3 | 8.3 | 52.5 | 7.9 | 54.0 | -46.1 | Pass |
| * 4580.0 | Н | 19.4 | 32.4 | 8.3 | 52.5 | 7.6 | 54.0 | -46.4 | Pass |
| 5496.0 | V | N.D 17.2 | 34.1 | 9.2 | 52.0 | 8.5 | 62.0 | -53.5 | Pass |
| 5496.0 | Н | N.D. 17.2 | 34.2 | 9.2 | 52.0 | 8.6 | 62.0 | -53.4 | Pass |
| 6412.0 | V | N.D. 17.2 | | | | | 62.0 | | Pass |
| 6412.0 | Н | N.D. 17.2 | | | | | 62.0 | | Pass |
| * 7328.0 | V | N.D. 17.2 | | | | | 54.0 | | Pass |
| * 7328.0 | Н | N.D. 17.2 | | | | | 54.0 | | Pass |
| * 8244.0 | V | N.D. 17.2 | | | | | 54.0 | | Pass |
| * 8244.0 | Н | N.D. 17.2 | | | | | 54.0 | | Pass |
| 9140.0 | V | N.D. 17.2 | | | | | 62.0 | | Pass |
| 9140.0 | Н | N.D. 17.2 | | | | | 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.
- All detected emissions are reported.
- Data reported was captured using a average detector.
- The transmitter was tested with fully charged DC cells.
- N.D. = Not Detected.

| Applicant: | | Kramble Industries Inc | | | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force Command |
|--|-----|------------------------|-----------|---|----------------|---------------|---------|---------------|---------------|
| DUT Model: | FBA | r4 | DUT Type: | 7 | Transmitter Re | mote Control | Tx Freq | .: 916 MHz | Systems J |
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| Test Report Serial No.: | 111115-T1336-E-15O | | Report Issue Date: | 2/4/2016 |
|-------------------------|--------------------|---------|-------------------------|--------------|
| Measurement Date(s): | Nov 11-25, 2015 | | 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 |



Sign-Off

Sr. Engineer

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Art Voss



| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|-----------------|-------------|-------------------------|--------------|
| Measurement Date(s): | Nov 11-25, 2015 | | 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 |



7.0 OCCUPIED BANDWIDTH

| 7.1 References | |
|------------------------------|---|
| Normative Reference Standard | FCC CFR 47 §15.231(c); IC RSS-210 Issue 8 |
| Procedure Reference | ANSI C63.4 |

| 7.2 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. |

| 7.3 Environmental conditions | | |
|------------------------------|---------------|--|
| Temperature | 25 +/- 5 °C | |
| Humidity | 40 +/- 10 % | |
| Barometric Pressure | 101 +/- 3 kPa | |

7.4 Equipment List

| Asset Number | Manufacturer | Model Number | Description | Last Calibrated | Calibration Interval | Calibration Due |
|-----------------|--------------|---------------------|--------------------------|--------------------|-------------------------|--------------------|
| 00265 | Miteq | JS32-00104000-58-5P | Microwave L/N Amplifier | COU | n/a | COU |
| 00241 | R&S | FSU40 | Spectrum Analyzer | 23 Apr 2015 | Biennial | 23 Apr 2017 |
| 00050 | Chase | CBL-6111A | Bilog Antenna | 25 Apr 2014 | Biennial | 25 Apr 2016 |
| 00275 | Coaxis | LMR400 | 25m Cable | COU | n/a | COU |
| 00276 | Coaxis | LMR400 | 4m Cable | COU | n/a | COU |
| 00278 | TILE | 34G3 | TILE Test Software | NCR | n/a | NCR |
| 00034 | ETS | 3115 | Double Ridged Guide Horn | 06 Dec 2012 | Triennial | 06 Dec 2015 |

| | Applicant: | | Kramble Industries Inc | | Inc FCC ID: 2AHDO-FBSXLDR | | IC: | 21 | 117-FBSXLDR | Torce Command | |
|---|------------|-----|------------------------|-----------|---------------------------|----------------------------|--------------------|---------------|-------------|---------------|--------------------------|
| | DUT Model: | FBA | r4 | DUT Type: | 1 | Transmitter Remote Control | | Tx Freq | .: | 916 MHz | Gorçe Commund Systems |
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| Test Report Serial No.: | 111115-T1336-E-15O | | Report Issue Date: | 2/4/2016 |
|-------------------------|--------------------|---------|-------------------------|--------------|
| Measurement Date(s): | Nov 11-25, 2015 | | 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 |



| 7.5 Setup drawing | | | |
|-------------------|-----|----------------------|---|
| | DUT | Spectrum Analyzer | |
| | | | ļ |

| Applicant: | | Kramble Industries Inc | | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | Force Command |
|------------------|----------|---|--|----------------------------|---------------|---------|---------------|---------------|
| DUT Model: | FBA | r4 DUT Type | | Transmitter Remote Control | | Tx Freq | .: 916 MHz | 5)sivms |
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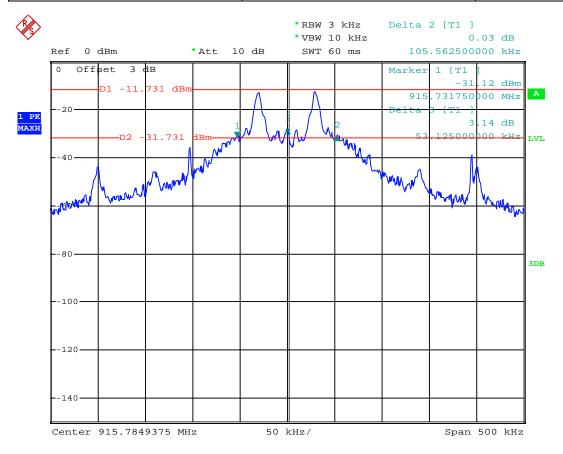


| Test Report Serial No.: | 111115-T1336-E-15O | | Report Issue Date: | 2/4/2016 |
|-------------------------|--------------------|---------|-------------------------|--------------|
| Measurement Date(s): | Nov 11-25, 2015 | | Report Revision No.: | Revision 1.1 |
| FCC Rule Part(s): | 47 CFR §2; §15.231 | | FCC Test Firm Reg. No.: | Accredited |
| IC Standard(s): | RSS-210 | RSS-Gen | IC Test Site No.: | IC 3874A-1 |



7.6 Test Data:

| 20dB Occupied Bandwidth | | | | | | |
|-------------------------|-------------------------|----------------------|--|--|--|--|
| TX Frequency | Measured 20dB bandwidth | Limit 20dB bandwidth | | | | |
| 915.8 MHz | 105.6 kHz | 4.6 MHz | | | | |



Date: 10.NOV.2015 09:43:59

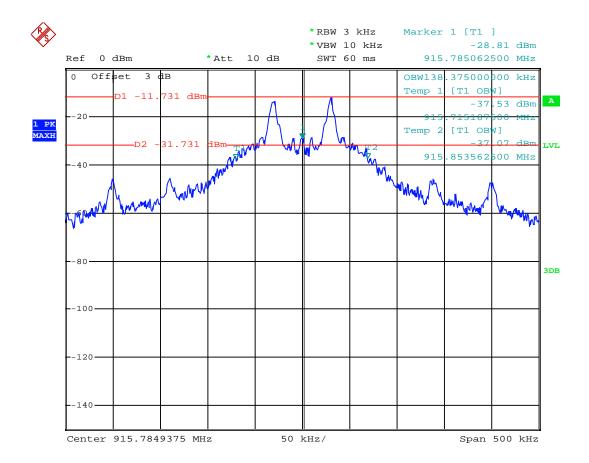
| - | Applicant: Kramble Industries Inc | | | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDF | force Command | | |
|-------------------------|-----------------------------------|---------|---------|-----------------|---------------|--------------------|---------------------------------|---------------|------------------------|-----------------------|
| D | UT Model: | FBA | r4 C | DUT Type: | 1 | Transmitter Re | mote Control | Tx Freq | .: 916 MHz | Gorça Command Systems |
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| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|----------|-------------|-------------------------|--------------|
| Measurement Date(s): | Nov 11 | -25, 2015 | 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 |



| 99% Occupied Bandwidth | | | | | | | | |
|------------------------|------------------------|----------------------|--|--|--|--|--|--|
| TX Frequency | Measured 99% bandwidth | Limit 20dB bandwidth | | | | | | |
| 916 MHz | 138.4 kHz | 4.6 MHz | | | | | | |



Date: 10.NOV.2015 09:46:23

| | | | ff | |
|--|--|--|----|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Stall Yours

Art Voss Sr. Engineer

| Applicant: | | Kramble Industries | s Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | Facce Command | |
|------------------|----------|----------------------|----------------|--------------------|---|----------|---------------|----------|
| DUT Model: | FBA | r4 DUT Type: | 1 | Transmitter Re | mote Control | Tx Freq. | : 916 MHz | 5) siems |
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| Test Report Serial No.: | 111115-T | 1336-E-15O | Report Issue Date: | 2/4/2016 |
|-------------------------|----------|-------------|-------------------------|--------------|
| Toot Hoport Condition | | 1000 L 100 | Roport loods Date. | 2/ 1/2010 |
| Measurement Date(s): | Nov 11 | -25, 2015 | 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: | | Kramble Industrie | s Inc | FCC ID: | 2AHDO-FBSXLDR | IC: | 21117-FBSXLDR | force commund |
|------------------|---------|---------------------|----------------|--------------------|---------------------------------|--------------|-------------------------|---------------|
| DUT Model: | FBA | r4 DUT Type: | | Transmitter Re | mote Control | Tx Freq. | : 916 MHz | |
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