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**FCC PART 15.231(a) &  
RSS-210 (i8) ANNEX 1  
MOMENTARILY OPERATED TRANSMITTER  
COMBO TEST REPORT**

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| <b>Applicant</b>            | <b>GTO ACCESS SYSTEMS, LLC</b>                                |
| <b>Address</b>              | <b>3121 HARTSFIELD ROAD<br/>TALLAHASSEE FLORIDA 32303 USA</b> |
| <b>Product Model Number</b> | 1BRMT, MTR1, 3BRMT, MTR3                                      |
| <b>Product Description</b>  | GARAGE DOOR TRANSMITTER                                       |
| <b>FCC ID</b>               | I6H-318MT                                                     |
| <b>IC</b>                   | 21449-318MT                                                   |
| <b>Date Sample Received</b> | 12/19/2016                                                    |
| <b>Date Tested</b>          | 12/20/2016                                                    |
| <b>Tested By</b>            | Tim Royer                                                     |
| <b>Approved By</b>          | Cory Leverett                                                 |

| Report Number        | Version Number | Description                                                 | Issue Date |
|----------------------|----------------|-------------------------------------------------------------|------------|
| 2521AUT16TestReport_ | Rev1           | Initial Issue                                               | 12/23/2016 |
| 2521AUT16TestReport_ | Rev2           | Updated Modulation technique on Page 7                      | 01/09/2017 |
| 2521AUT16TestReport_ | Rev3           | Updated Modulation technique and type of emission on Page 4 | 02/07/2017 |

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**

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## GENERAL REMARKS

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## Summary

The device under test does:

- ☒ Fulfill the general approval requirements as identified in this test report and was selected by the customer.
- ☐ Not fulfill the general approval requirements as identified in this test report

## Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

**Timco Engineering Inc.**  
**849 NW State Road 45**  
**Newberry, FL 32669**

A blue ink signature of Tim Royer is written over a circular purple stamp. The stamp contains the text "TIMCO ENGINEERING, INC." around the perimeter.

### Tested by:

Name and Title: Tim Royer, Project Manager/Testing Engineer

**Date: 12/21/2016**

A blue ink signature of Cory Leverett is written over a circular red stamp. The stamp contains the text "TIMCO ENGINEERING, INC." around the perimeter.

### Reviewed and approved by:

Name and Title: Cory Leverett, Project Manager

**Date: 12/23/2016**

Applicant: GTO ACCESS SYSTEMS, LLC  
FCC ID: I6H-318MT  
IC: 21449-318MT  
Report: 2521AUT16TestReport\_Rev1

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## GENERAL INFORMATION

|                                |                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Description</b>         | GARAGE DOOR TRANSMITTER                                                                                                                                                                                |
| <b>FCC ID</b>                  | I6H-318MT                                                                                                                                                                                              |
| <b>IC</b>                      | 21449-318MT                                                                                                                                                                                            |
| <b>Model Number</b>            | 1BRMT, MTR1, 3BRMT, MTR3                                                                                                                                                                               |
| <b>Operating Frequency</b>     | 318 MHz                                                                                                                                                                                                |
| <b>Test Frequencies</b>        | 318 MHz                                                                                                                                                                                                |
| <b>Type of Emission</b>        | K1D                                                                                                                                                                                                    |
| <b>Modulation</b>              | OOK                                                                                                                                                                                                    |
| <b>EUT Power Source</b>        | <input type="checkbox"/> 110–120Vac/50– 60Hz                                                                                                                                                           |
|                                | <input type="checkbox"/> DC Power 12V                                                                                                                                                                  |
|                                | <input checked="" type="checkbox"/> Battery Operated Exclusively                                                                                                                                       |
| <b>Test Item</b>               | <input type="checkbox"/> Prototype                                                                                                                                                                     |
|                                | <input type="checkbox"/> Pre-Production                                                                                                                                                                |
|                                | <input checked="" type="checkbox"/> Production                                                                                                                                                         |
| <b>Type of Equipment</b>       | <input type="checkbox"/> Fixed                                                                                                                                                                         |
|                                | <input type="checkbox"/> Mobile                                                                                                                                                                        |
|                                | <input checked="" type="checkbox"/> Portable                                                                                                                                                           |
| <b>Test Conditions</b>         | Temperature: 24-26°C<br>Relative humidity: 50-65%<br>Barometric Pressure: 30.01"                                                                                                                       |
| <b>Modification to the EUT</b> | None                                                                                                                                                                                                   |
| <b>Test Exercise</b>           | For radiated emissions testing a continuously transmitting modulated carrier was used, for verification of duty cycle and compliance with periodic operation a normally operating transmitter was used |
| <b>Regulatory Standards</b>    | FCC CFR Title 47 Part 15C<br>IC RSS-210 (i8) Annex 1                                                                                                                                                   |
| <b>Measurement Standards</b>   | ANSI C63.10: 2013<br>FCC CFR Title 47 Part 15.31, 15.33, 15.35<br>RSS-GEN (i4)                                                                                                                         |

## TEST RESULTS SUMMARY

| Requirement                      | FCC Rules Part No.                     | IC RSS §                          | RESULTS<br>Pass/Fail/NA |
|----------------------------------|----------------------------------------|-----------------------------------|-------------------------|
| Types of Momentary Signals       | 15.231(a)                              | 210 A1.1.1                        | Pass                    |
| Fundamental Output Power         | 15.231(b)                              | 210 A1.1.2<br>GEN 6.12            | Pass                    |
| Spurious Emissions and Harmonics | 15.231(b)<br>15.209(a)<br>15.205(a)(b) | 210 A1.1.2<br>GEN 8.9<br>GEN 8.10 | Pass                    |
| Occupied Bandwidth               | 15.231(c)<br>15.215(c)                 | 210 A1.1.3<br>GEN 6.6             | Pass                    |

## TEST SETUP

|                                                             |                                                                                                 |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Test Exercise(e.g software description, test signal, etc.): | Samples with engineering software enabling continuous transmissions were submitted for testing. |
| Deviation from the standard(s)                              | No deviation from the standard(s)                                                               |
| Modification to the DUT:                                    | No modification was made to the DUT.                                                            |
| Supporting Peripheral Equipment                             | N/A                                                                                             |

## **PERIODIC OPERATION**

**FCC Rule Part No:** 15.231(a)

**IC RSS:** 210 A1.1.1

### **Requirements:**

The intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Continuous transmissions, voice, video and the radio control of toys are not permitted. Data is permitted to be sent with a control signal. The following conditions shall be met to comply with the provisions for this periodic operation:

- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.
- (4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition
- (5) Transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (1) and (2) of this section, provided such transmissions are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

**Procedure:** ANSI C63.10 § 7.4(e) Compliance for periodic operation

## PERIODIC OPERATION

### Declaration Provided by Applicant

| 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?                                                  | NA       |    |
| 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?                                                                    |          | X  |
| 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?                                          |          | NA |
| 10   | Duty cycle: Maximum on-time?                                                                                              | 17.31 ms |    |
|      | If YES, on-time in 100 mS?                                                                                                | X        |    |
|      | If Other, please specify here: On time in                                                                                 |          |    |
| 11   | Modulation technique: Please specify the modulation of the test sample, FM, or AFSK, or FSK, or on-off keying, or others? | OOK      |    |

### Periodic Transmission Per Hour Calculation

| Transmissions Per Hour | On Time per Transmission | Total Hourly On Time (s) | Hourly On Time Limit (s) | Margin (s) |
|------------------------|--------------------------|--------------------------|--------------------------|------------|
| N/A                    |                          |                          |                          |            |

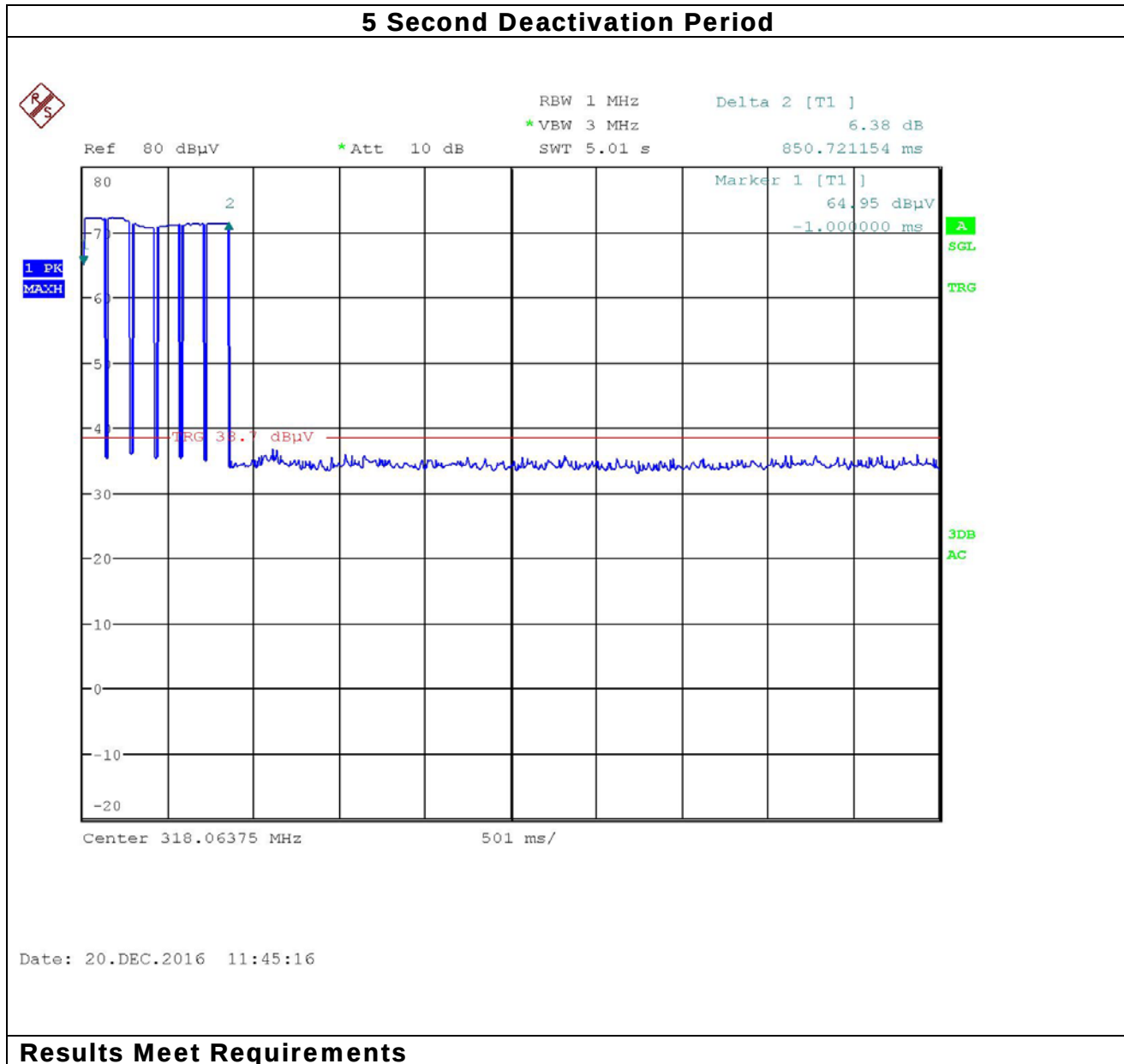
**Meets all requirements.**

Applicant: GTO ACCESS SYSTEMS, LLC  
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## PERIODIC OPERATION

**Test Data:** Transmitter Deactivation Plot



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## DUTY CYCLE

**Requirements:** There are no requirements for the duty cycle; it is measured to determine compliance with the periodic operation average emission limits and the automatic transmission on time requirement.

**Procedure:** ANSI C63.10 § 7.5 Average value of pulsed emissions

**Formula:**  $\delta \text{ (dB)} = 20 \log (n_1 t_1 + n_2 t_2 + n_3 t_3) / T$

Where:

$\delta$  is the duty cycle correction factor (dB)

T is the pulse width (100 ms period)

$t_1$  is the pulse width of subpulse 1

$t_2$  is the pulse width of subpulse 2

$t_3$  is the pulse width of subpulse 3

$n_1$  is the number of  $t_1$  pulses

$n_2$  is the number of  $t_2$  pulses

$n_3$  is the number of  $t_3$  pulses

**Test Data:** Calculation of Duty Cycle

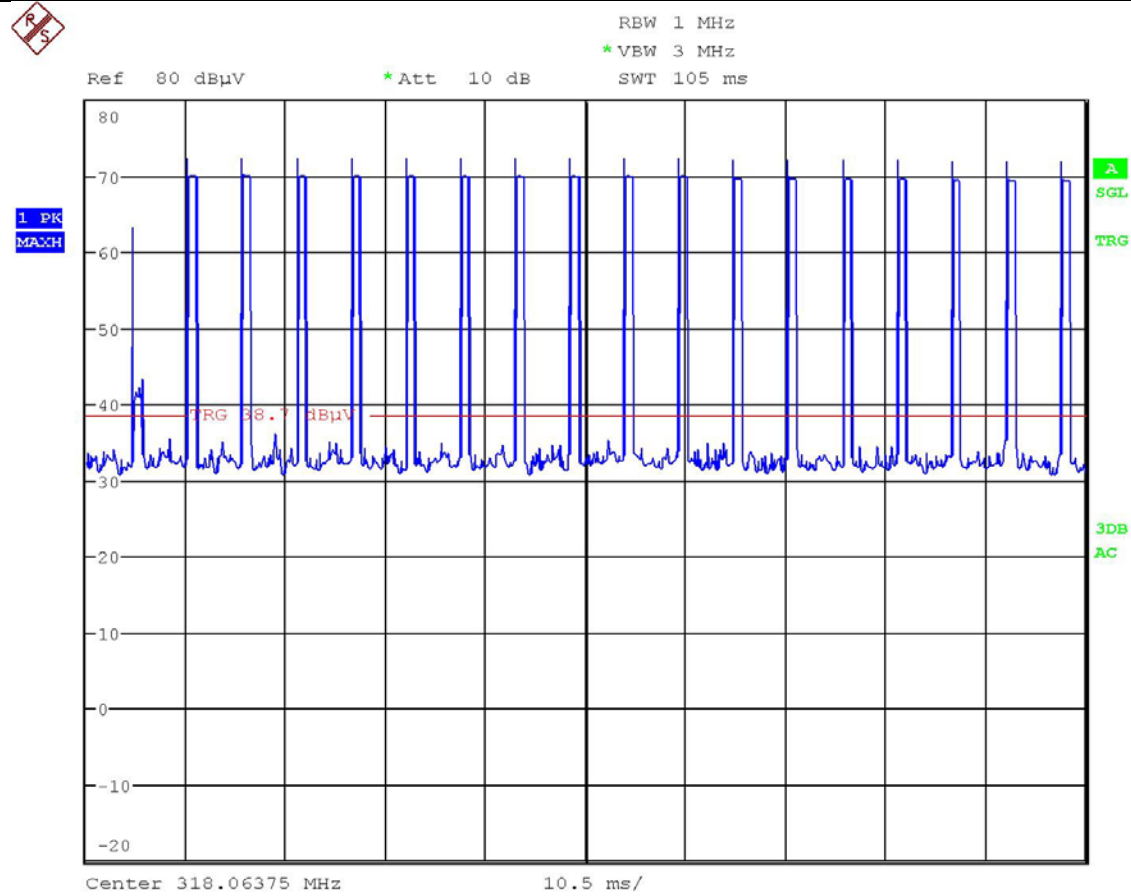
| Sub Pulse          | Duration (ms) | Number | On Time (ms) |
|--------------------|---------------|--------|--------------|
| 1                  | 0.9615        | 18     | 17.307       |
| Total On Time (ms) |               |        | 17.307       |
| Period (ms)        |               |        | 100          |
| Duty Cycle (%)     |               |        | 17%          |
| Cor Factor (dB)    |               |        | -15.24       |

See the following plots.

## DUTY CYCLE

**Test Data:**            **100 ms Number of Pulses Plot**

**Subpulse 1 = 18**



Date: 20.DEC.2016 11:34:41

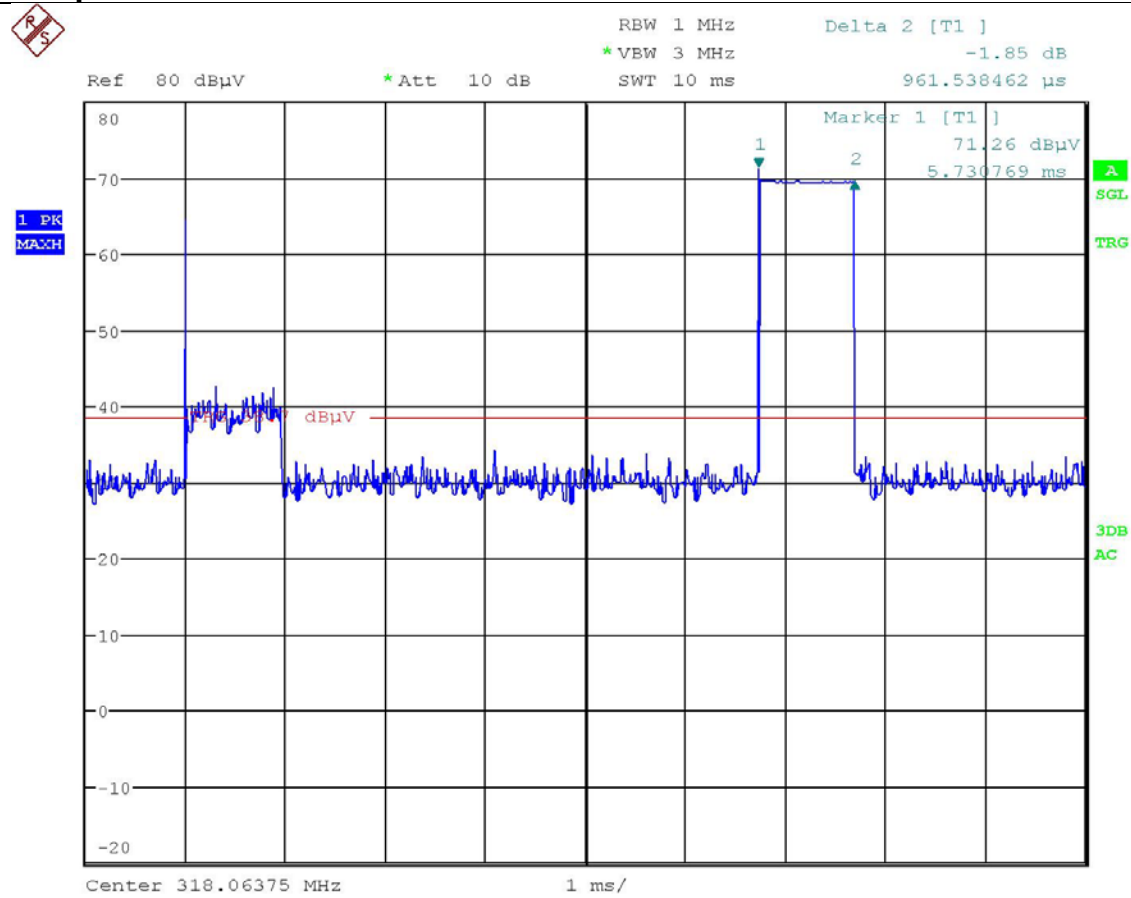
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## DUTY CYCLE

**Test Data:** SubPulse 1 Duration Plot

### Subpulse 1 Duration = 0.9615 ms



Date: 20.DEC.2016 11:44:03

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## RADIATION EMISSIONS

**FCC Rules Part No.:** 15.231(b), 15.209 (a), 15.205(a)(b)

**IC RSS:** 210 § A1.1 Table A, RSS-Gen § 8.9, & 8.10

### Requirements:

| <b>Fundamental and Harmonics not in Restricted Bands</b> |                                              |                                                                        |
|----------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|
| Fundamental Frequency (MHz)                              | Field Strength of Fundamental (dB $\mu$ V/m) | Field Strength of Harmonics and Spurious Emissions (dB $\mu$ V/m @ 3m) |
| 40.66 to 40.70                                           | 67.04                                        | 47.04                                                                  |
| 70 to 130                                                | 61.94                                        | 41.94                                                                  |
| 130 to 174                                               | 61.94 to 71.48                               | 41.94 to 51.48                                                         |
| 174 to 260                                               | 71.48                                        | 51.48                                                                  |
| 260 to 470                                               | 71.48 to 81.94                               | 51.48 to 61.94                                                         |
| 470 and above                                            | 81.94(12500)                                 | 61.94                                                                  |

| <b>Restricted Band Emissions</b> |                                         |
|----------------------------------|-----------------------------------------|
| Frequency (MHz)                  | Limits                                  |
| 9 – 490 kHz                      | 2400/F (kHz) $\mu$ V/m @ 300 meters     |
| 490 – 1705 kHz                   | 24000/F (kHz) $\mu$ V/m @ 30 meters     |
| 1705 – 30 MHz                    | 29.54 dB $\mu$ V/m measured @ 30 meters |
| 30 – 88                          | 40.0 dB $\mu$ V/m measured @ 3 meters   |
| 88 – 216                         | 43.5 dB $\mu$ V/m measured @ 3 meters   |
| 216 – 960                        | 46.0 dB $\mu$ V/m measured @ 3 meters   |
| Above 960                        | 54.0 dB $\mu$ V/m measured @ 3 meters   |

No fundamental frequency is allowed in the restricted bands.

No harmonic or spurious emissions may exceed the level of the fundamental carrier frequency.

## RADIATION EMISSIONS

### Fundamental Emission Limit Formula:

- 1) For the band 130-174 MHz,  $\mu\text{V/m}$  at 3 meters =  $56.81818(F) - 6136.3636$ ;
- 2) For the band 260-470 MHz,  $\mu\text{V/m}$  at 3 meters =  $41.6667(F) - 7083.3333$ .

Where F is the fundamental emission frequency in MHz

Example Calculation of limit @ 433.92 MHz:

$$41.6667 (433.9) - 7083.3333 = 10,995.85 \text{ } \mu\text{V/m}$$

$$20\log (10,995.85) = 80.82 \text{ dBuV/m}$$

### Harmonics and Spurious Emissions Limit:

- 1) 20 dBc for all emissions outside of restricted bands
- 2) General limits of 15.209(a) & RSS-Gen for emissions inside restricted bands

### 3 Meter Field Strength Limit for this EUT:

| Fund Freq<br>(MHz) | Fund Limit<br>(dBuV/m) | Harm & Spur<br>(dBuV/m) | Restricted<br>Bands |
|--------------------|------------------------|-------------------------|---------------------|
| 318.06375          | 75.80                  | 55.80                   | Limit of 15.209     |

## **RADIATION EMISSIONS:**

**Test Method:** ANSI C63.10 § 6.3 – 6.6 Radiated Emissions Unlicensed Devices

The EUT was placed on a table with dimensions of 1m by 1.5m, 80 cm high below 1 GHz and 150 cm high above 1 GHz. The EUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 9 KHz or the lowest frequency generated to the 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes when necessary and the highest readings were converted to average readings based on the duty cycle.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

### **Formula of Conversion Factors:**

The field strength at 3m was established by adding the meter reading of the spectrum analyzer to the antenna correction factor supplied by the antenna manufacturer plus the coax loss. The antenna correction factors are stated in terms of dB/m. The gain of the preselector was accounted for in the spectrum analyzer reading.

Example:

| Freq.<br>MHz | Meter Reading<br>dB $\mu$ V | ACF<br>dB/m | Cable Loss<br>dB | Field Strength<br>dB $\mu$ V/m @ 3 m |
|--------------|-----------------------------|-------------|------------------|--------------------------------------|
| 33           | 20                          | +10.36      | +1.2             | = 31.56                              |

## RADIATION EMISSIONS:

### Test Data: Emissions from 9 KHz to the 10th harmonic of the Fundamental

| Tuned Freq MHz | Emission Frequency MHz |   | Meas Type QP/PK/AV | Meter Read dBuV | Ant Pol | Coax Loss Db | Corr Factor dB/M | Field Strength dBuV/M | Limit dBuV/m | Margin dB |
|----------------|------------------------|---|--------------------|-----------------|---------|--------------|------------------|-----------------------|--------------|-----------|
| 318.064        | 318.064                |   | AV                 | 37.3            | H       | 2.1          | 13.6             | 52.9                  | 75.8         | 22.9      |
| 318.064        | 636.128                |   | AV                 | 5.1             | H       | 2.9          | 19.3             | 27.2                  | 55.8         | 28.6      |
| 318.064        | 954.191                |   | AV                 | 0.3             | H       | 3.5          | 24.0             | 27.8                  | 55.8         | 28.0      |
| 318.064        | 1590.319               | * | PK                 | 32.6            | H       | 4.6          | 28.1             | 65.3                  | 74.0         | 3.9       |
| 318.064        | 1590.319               | * | AV                 | 17.4            | H       | 4.6          | 28.1             | 50.1                  | 54.0         | 3.9       |
| 318.064        | 2226.446               | * | PK                 | 11.5            | V       | 5.5          | 31.2             | 48.3                  | 74.0         | 25.7      |
| 318.064        | 2226.446               | * | AV                 | -3.7            | V       | 5.5          | 31.2             | 33.0                  | 54.0         | 21.0      |
| 318.064        | 2544.510               |   | AV                 | 7.2             | V       | 5.8          | 32.8             | 45.8                  | 55.8         | 10.0      |
| 318.064        | 2862.574               | * | PK                 | 10.1            | V       | 6.2          | 32.4             | 48.7                  | 74.0         | 25.3      |
| 318.064        | 2862.574               | * | AV                 | -5.1            | V       | 6.2          | 32.4             | 33.5                  | 54.0         | 20.5      |
| 318.064        | 3180.638               |   | AV                 | 4.3             | H       | 6.5          | 32.9             | 43.8                  | 55.8         | 12.0      |

\* -Denotes restricted bands which must comply with limits 15.209

Note: Emissions that are 20 dB below the limit are not required to be reported, but in any case at least 6 highest emission frequencies are reported.

## OCCUPIED BANDWIDTH

**FCC Rules Part No.:** 15.231(C), & 15.215(c)

**IC RSS:** 210 § A1.1.3, & GEN § 6.6

**Requirements:**

The bandwidth of the emission shall fall completely inside the band of operation, and be no wider than .25% of the center frequency for devices operating between 70 and 900 MHz.

For FCC compliance the Bandwidth is determined at the points 20 dB down from the modulated carrier.

For IC compliance the Bandwidth is determined as the 99% power bandwidth.

**Test Method:** ANSI C63.10 § 6.9.2 Occupied bandwidth Relative procedure  
ANSI C63.10 § 6.9.3 Occupied bandwidth 99% Power

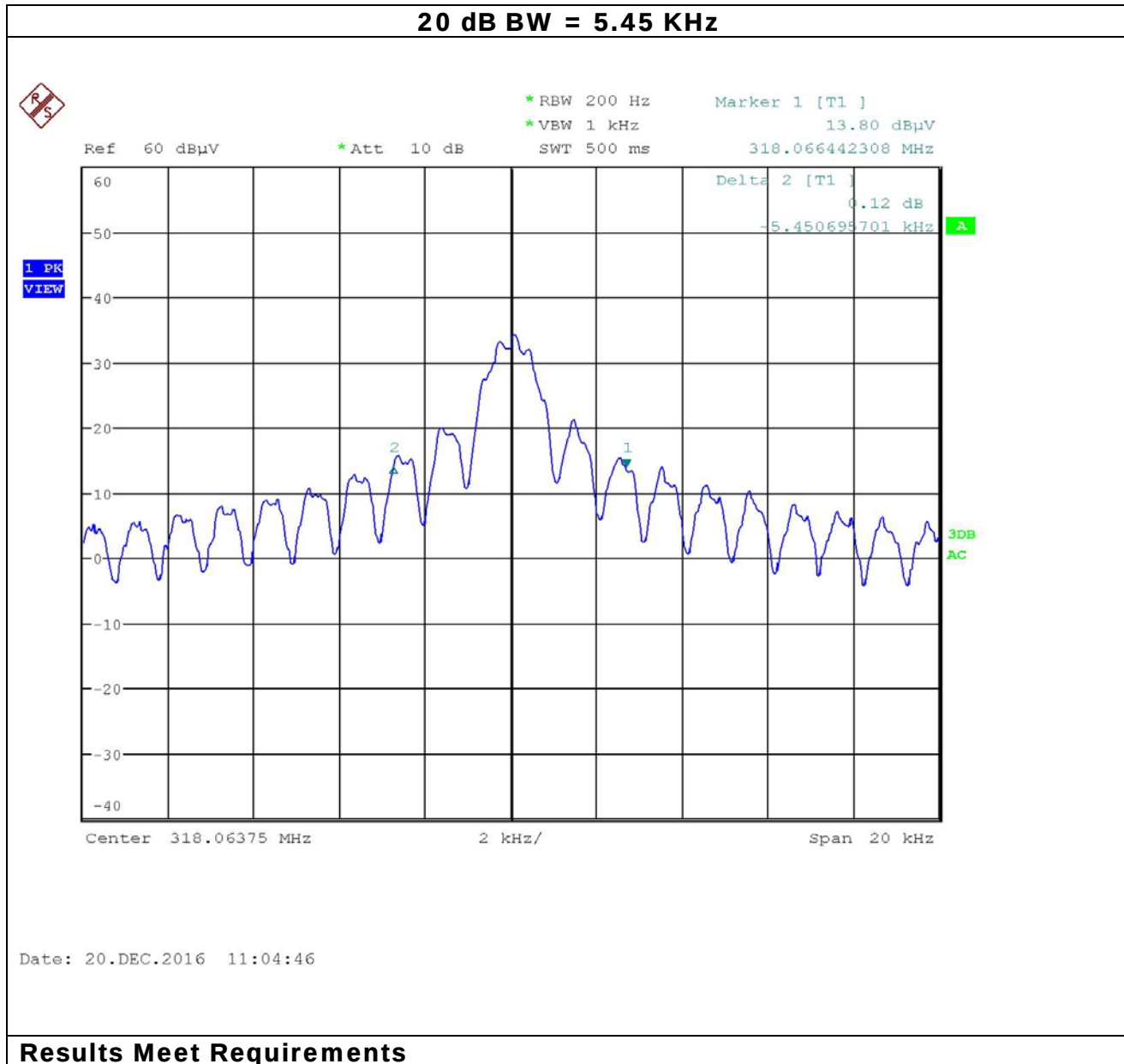
**Test Data:** **Occupied Bandwidth Measurement Table**

| Tuned Frequency (MHz) | Limit (KHz) | Measured 20 dB BW (KHz) | Measured 99% BW (KHz) |
|-----------------------|-------------|-------------------------|-----------------------|
| 318.06375             | 795.159375  | 5.45                    | 25                    |
| Margin (KHz)          |             | 789.709375              | 770.159375            |

**Results Meet Requirements**

## OCCUPIED BANDWIDTH

**Test Data:**            **20 dB Occupied Bandwidth Plot**

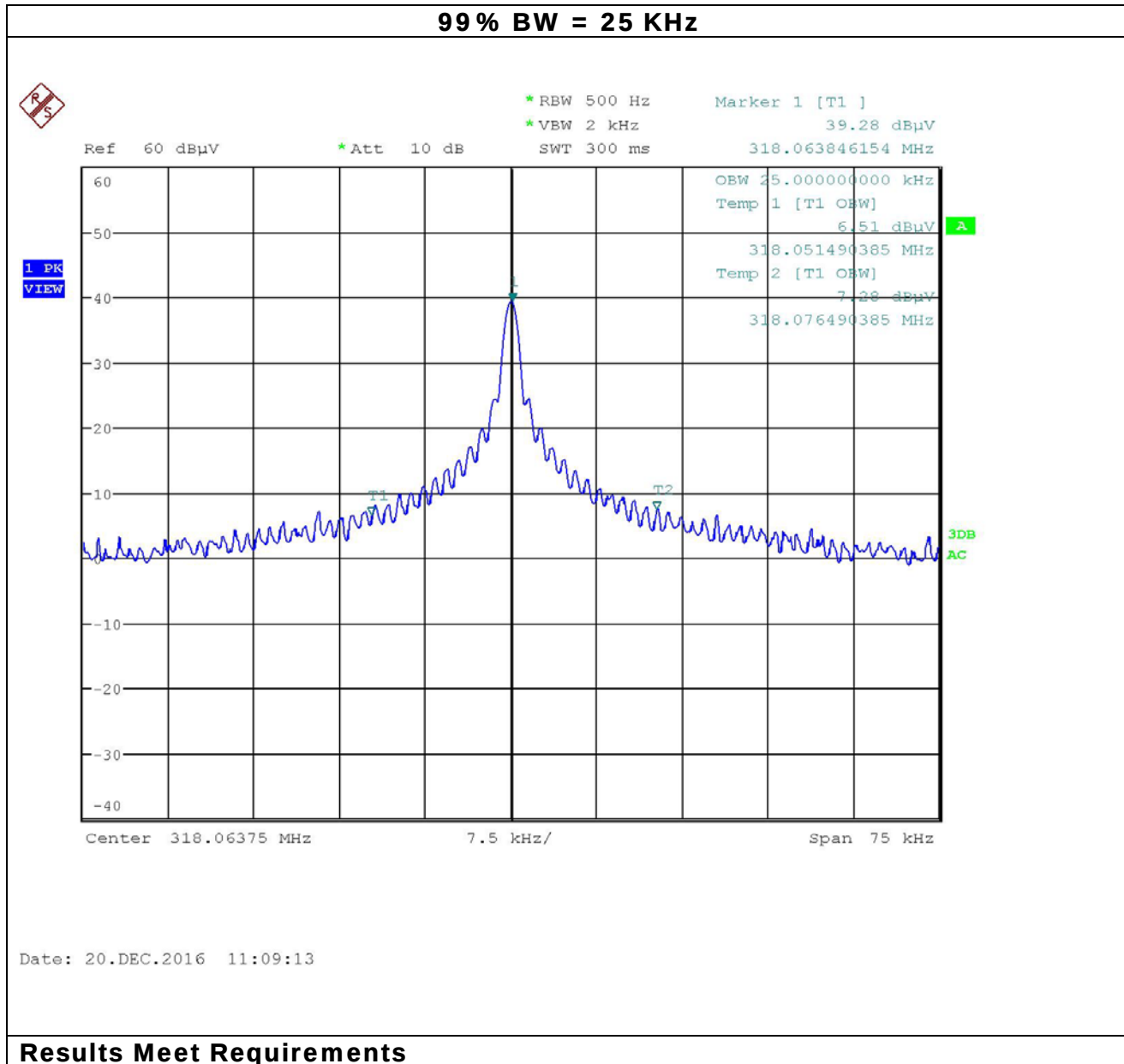


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## OCCUPIED BANDWIDTH

**Test Data:**            **99 % Occupied Bandwidth Plot**



## TEST EQUIPMENT LIST

| Device                                        | Manufacturer         | Model                         | Serial Number                            | Cal/Char Date | Due Date |
|-----------------------------------------------|----------------------|-------------------------------|------------------------------------------|---------------|----------|
| Antenna: Biconical 1096 Chamber               | Eaton                | 94455-1                       | 1096                                     | 07/14/15      | 07/14/17 |
| Antenna: Log-Periodic 1122                    | Electro-Metrics      | LPA-25                        | 1122                                     | 07/14/15      | 07/14/17 |
| CHAMBER                                       | Panashield           | 3M                            | N/A                                      | 04/25/16      | 12/31/17 |
| Antenna: Double-Ridged Horn/ETS Horn 2        | ETS-Lindgren Chamber | 3117                          | 00041534                                 | 02/25/15      | 02/25/17 |
| EMI Test Receiver R & S ESU 40                | Rohde & Schwarz      | ESIB 40                       | 100320                                   | 04/01/16      | 04/01/18 |
| Software: Field Strength Program              | Timco                | N/A                           | Version 4.0                              | N/A           | N/A      |
| Antenna: Active Loop                          | ETS-Lindgren         | 6502                          | 00062529                                 | 11/18/15      | 11/18/17 |
| Coaxial Cable - Chamber 3 cable set (Primary) | Micro-Coax           | Chamber 3 cable set (Primary) | KMKM-0244-01; KMKM-0670-00; KFKF-0198-01 | 08/08/16      | 08/08/18 |
| Pre-amp                                       | RF-LAMBDA            | RLNA00M45GA                   | NA                                       | 01/04/16      | 01/04/18 |
| High Pass Filter                              | Weinschel            | 210-10S                       | C9056                                    | 06/17/15      | 06/17/17 |

### \*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3