

# FCC PART 15.231

# **TEST REPORT**

For

# **GTO Access Systems, LLC**

3121 Hartsfield Road, Tallahassee, Florida 32303, USA

## FCC ID: I6H-LP6110KP

<b>Report Type:</b> Original Report	<b>Product Type:</b> GTO/PRO PROFESSIONAL KEYPAD			
Report Number:	RDG17090	)5008-00B		
Report Date:	2017-12-2	1		
Reviewed By:	Jerry Zhan EMC Man	e	Jerry	Zhang
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**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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### **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

EUT Name:	GTO/PRO PROFESSIONAL KEYPAD
EUT Model:	F6110MBC
FCC ID:	I6H-LP6110KP
Rated Input Voltage:	DC6.0V from battery or AC/DC 8~24V from AC/DC port
External Dimension:	17.7cm(L)*15.3cm(W)*11.7cm(H)
Serial Number:	170905008
EUT Received Date:	2017-09-05

#### Objective

This report is prepared on behalf of *GTO Access Systems, LLC* in accordance with Part 2, Subpart J, Part 15, Subparts A, and C of the Federal Communications Commission's rules

The tests were performed in order to determine compliance with FCC Rules Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.35(c) and 15.231 rules.

#### **Related Submittal(s)/Grant(s)**

FCC Part 15C DSS submissions with FCC ID: I6H-LP6110KP. Part of system submission with FCC ID: I6H-MM136G3BASE.

#### **Test Methodology**

All measurements detailed in this Test Report were performed in accordance with ANSI C63.10-2013 "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices".

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

#### **Measurement Uncertainty**

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5$ %
Unwanted Emissions, radiated	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical 1G~6GHz: 4.45 dB, 6G~26.5GHz: 5.23 dB
Temperature	$\pm 1$ °C
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

#### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

Bay Area Compliance Laboratories Corp. (Dongguan) has been accredited to ISO/IEC 17025 by CNAS(Lab code: L5662). And accredited to ISO/IEC 17025 by NVLAP(Test Laboratory Accreditation Certificate Number 500069-0), the FCC Designation No. CN5002 under the KDB 974614 D01.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Bay Area Compliance Laboratories Corp. (Dongguan) was registered with ISED Canada under ISED Canada Registration Number 3062D.

## SYSTEM TEST CONFIGURATION

#### Justification

The system was configured in testing mode which was provided by manufacturer.

When the GRANT ACCESS Button of the base unit was pressed, the 915MHz module will receive it, and if the person at the keypad side press the keypad any key, the 318 MHz module will send out the same ASK signal to the gate opener and open the gate.

#### **Equipment Modifications**

No modifications were made to the unit tested.

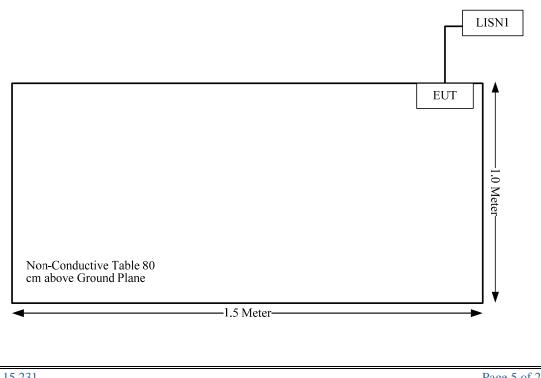
#### **EUT Exercise Software**

No software was used in test.

#### **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
GTO Access Systems, LLC	INTERCOM BASE UNIT	MM136B	/

#### **Block Diagram of Test Setup**



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## SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Compliance
§15.205, §15.209, §15.231 (b)	Radiated Emissions	Compliance
§15.231 (c)	20dB Bandwidth	Compliance
§15.231 (a)	Deactivation Testing	Compliance

## FCC §15.203 - ANTENNA REQUIREMENT

#### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **Result:** Compliant.

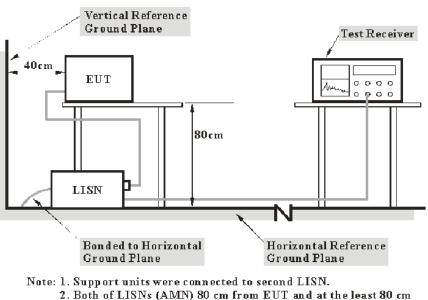
The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

## FCC §15.207 (a)- AC LINE CONDUCTED EMISSIONS

#### Applicable Standard

FCC§15.207(a)

#### **EUT Setup**



from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207.

The spacing between the peripherals was 10 cm.

The EUT was connected to the main lisn with a 8 or 24 V/60 Hz AC power source.

#### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

#### **Test Procedure**

During the conducted emission test, the EUT was connected to the first LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

#### **Corrected Amplitude & Margin Calculation**

The basic equation is as follows:

$$\label{eq:VC} \begin{split} V_{C} &= V_{R} + A_{C} + VDF \\ C_{f} &= A_{C} + VDF \end{split}$$

Herein,  $V_C$  (cord. Reading): corrected voltage amplitude  $V_R$ : reading voltage amplitude  $A_c$ : attenuation caused by cable loss VDF: voltage division factor of AMN  $C_f$ : Correction Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2016-12-08	2017-12-08
R&S	L.I.S.N	ESH2-Z5	892107/021	2017-09-25	2018-09-25
R&S	Two-line V-network	ENV 216	3560.6550.12	2016-12-08	2017-12-08
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
N/A	Coaxial Cable	C-NJNJ-50	C-0200-01	2017-09-05	2018-09-05

#### **Test Equipment List and Details**

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

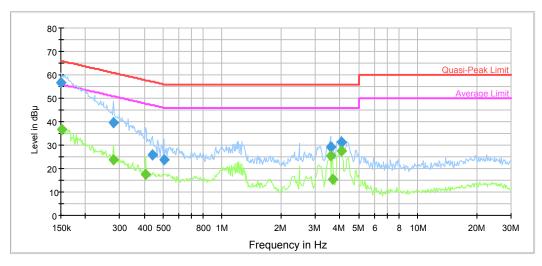
#### **Environmental Conditions**

Temperature:	24.0 °C
<b>Relative Humidity:</b>	34 %
ATM Pressure:	100.8 kPa

The testing was performed by Alex You on 2017-11-24.

Test Mode: Transmitting (AC 24V was the worst)

#### AC24V, 60 Hz, Line:



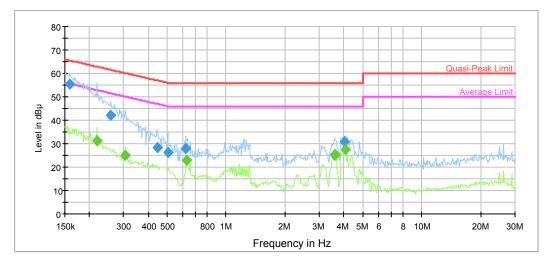
Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	56.6	9.000	L1	11.2	9.4	66.0	Compliance
0.279263	39.6	9.000	L1	10.2	21.2	60.8	Compliance
0.443327	25.9	9.000	L1	9.9	31.1	57.0	Compliance
0.503608	23.6	9.000	L1	9.9	32.4	56.0	Compliance
3.575883	29.3	9.000	L1	9.8	26.7	56.0	Compliance
4.062112	31.2	9.000	L1	9.8	24.8	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.152410	36.5	9.000	L1	11.2	19.4	55.9	Compliance
0.279263	23.5	9.000	L1	10.2	27.3	50.8	Compliance
0.406123	17.6	9.000	L1	10.0	30.1	47.7	Compliance
3.575883	25.6	9.000	L1	9.8	20.4	46.0	Compliance
3.662393	15.6	9.000	L1	9.8	30.4	46.0	Compliance
4.062112	27.7	9.000	L1	9.8	18.3	46.0	Compliance

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### AC24V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.158604	55.2	9.000	N	11.1	10.3	65.5	Compliance
0.257874	42.1	9.000	N	10.3	19.4	61.5	Compliance
0.446873	28.4	9.000	N	9.9	28.5	56.9	Compliance
0.503608	26.3	9.000	N	9.9	29.7	56.0	Compliance
0.624492	28.0	9.000	N	9.8	28.0	56.0	Compliance
4.029873	31.0	9.000	Ν	9.8	25.0	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.218141	31.3	9.000	N	10.5	21.6	52.9	Compliance
0.304845	25.1	9.000	Ν	10.1	25.0	50.1	Compliance
0.629488	22.8	9.000	Ν	9.8	23.2	46.0	Compliance
3.575883	25.0	9.000	Ν	9.8	21.0	46.0	Compliance
3.604490	25.5	9.000	Ν	9.8	20.5	46.0	Compliance
4.062112	27.6	9.000	Ν	9.8	18.4	46.0	Compliance

## FCC §15.205, §15.209, §15.231 (b) - RADIATED EMISSIONS

#### Applicable Standard

FCC §15.205, §15.209, §15.231 (b)

(b) In addition to the provisions of \$15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	<sup>1</sup> 1,250 to 3,750	<sup>1</sup> 125 to 375
174-260	3,750	375
260-470	<sup>1</sup> 3,750 to 12,500	<sup>1</sup> 375 to 1,250
Above 470	12,500	1,250

<sup>1</sup>Linear interpolations.

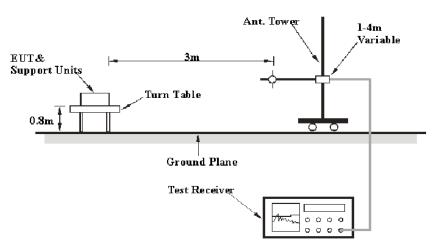
(1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.

(2) Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in §15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

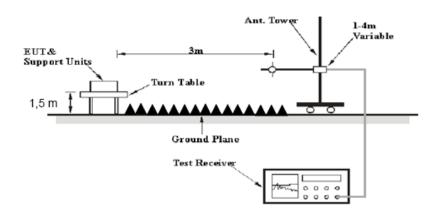
(3) The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

#### **EUT Setup**

#### Below 1 GHz:



#### Above 1 GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15 § 15.209, 15.205 and 15.231.

#### **EMI Test Receiver Setup**

The system was investigated from 30 MHz to 4 GHz.

During the radiated emission test, the test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	100 kHz	РК
1 GHz – 4 GHz	1 MHz	3 MHz	/	РК

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2017-09-01	2018-09-01
Sunol Sciences	Antenna	JB3	A060611-2	2017-08-25	2020-08-25
HP	Amplifier	8447D	2727A05902	2017-09-05	2018-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2017-12-08	2018-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-05
MITEQ	Amplifier	AFS42-00101800- 25-S-42	2001271	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0400-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0075-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-1000-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-SJSJ-50	C-0800-01	2017-09-05	2018-09-05

#### **Test Equipment List and Details**

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

According to §15.231, Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector

#### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit - Corrected Amplitude

#### **Test Results Summary**

According to the data in the following table, the EUT complied with the <u>CFR47 §15.205, §15.209, §15.231 (b).</u>

#### **Test Data**

#### **Environmental Conditions**

Temperature:	25.2~28.5 °C
<b>Relative Humidity:</b>	49~50 %
ATM Pressure:	100.4~100.6 kPa

The testing was performed by Steven Zuo on 2017-12-20 and 2017-12-21.

Test mode: Transmitting

#### Field Strength (Peak)

Frequency	Receiver	Rx A	ntenna	Cable	Amplifier	Corrected	15.23	l(b)
(MHz)	Reading (dBµV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Operating 1	Frequency: 3	318.022 MHz			
318.022	75.38	Н	14.50	2.18	21.57	70.49	95.8	25.31
318.022	80.49	V	14.50	2.18	21.57	75.6	95.8	20.2
636.044	39.8	Н	20.10	3.08	22.28	40.7	75.8	35.1
636.044	42.6	V	20.10	3.08	22.28	43.5	75.8	32.3
954.066	36.9	Н	23.33	3.76	22.08	41.91	75.8	33.89
954.066	38.6	V	23.33	3.76	22.08	43.61	75.8	32.19
1272.088	59.43	Н	25.27	2.15	35.28	51.58	74	22.42
1272.088	58.38	V	25.27	2.15	35.28	50.53	74	23.47
1590.11	59.17	Н	26.09	2.46	35.32	52.41	74	21.59
1590.11	59.09	V	26.09	2.46	35.32	52.33	74	21.67
1908.132	54.12	Н	28.19	2.67	35.58	49.41	74	24.59
1908.132	52.86	V	28.19	2.67	35.58	48.15	74	25.85
2226.154	58.52	Н	30.07	2.97	35.57	55.99	74	18.01
2226.154	55.48	V	30.07	2.97	35.57	52.95	74	21.05
2544.176	53.42	Н	31.54	3.10	35.45	52.61	74	21.39
2544.176	52.79	V	31.54	3.10	35.45	51.98	74	22.02

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<b>F</b>	Peak Measurement	Polar	Duty Cycle	Awaya ga Away	15.23	l(b)
Frequency (MHz)	@ 3m (dBµV/m)	(H/V)	Correction Factor (dB)	Average Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		Operating F	requency: 318.022 MHz	Z		
318.022	70.49	Н	-8.19	62.30	75.8	13.50
318.022	75.6	V	-8.19	67.41	75.8	8.39
636.044	40.7	Н	-8.19	32.51	55.8	23.29
636.044	43.5	V	-8.19	35.31	55.8	20.49
954.066	41.91	Н	-8.19	33.72	55.8	22.08
954.066	43.61	V	-8.19	35.42	55.8	20.38
1272.088	51.58	Н	-8.19	43.39	54	10.61
1272.088	50.53	V	-8.19	42.34	54	11.66
1590.11	52.41	Н	-8.19	44.22	54	9.78
1590.11	52.33	V	-8.19	44.14	54	9.86
1908.132	49.41	Н	-8.19	41.22	54	12.78
1908.132	48.15	V	-8.19	39.96	54	14.04
2226.154	55.99	Н	-8.19	47.80	54	6.2
2226.154	52.95	V	-8.19	44.76	54	9.24
2544.176	52.61	Н	-8.19	44.42	54	9.58
2544.176	51.98	V	-8.19	43.79	54	10.21

#### Field Strength (Average)

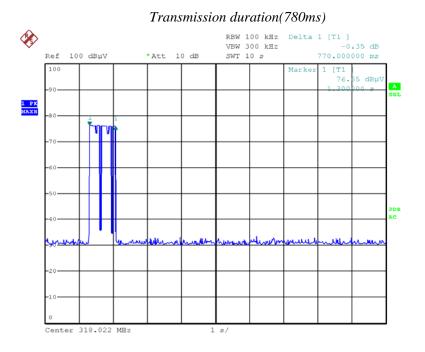
Duty Cycle Correction Factor Calculation as below:

Ton=8\*4.12+10\*0.6=38.96 ms

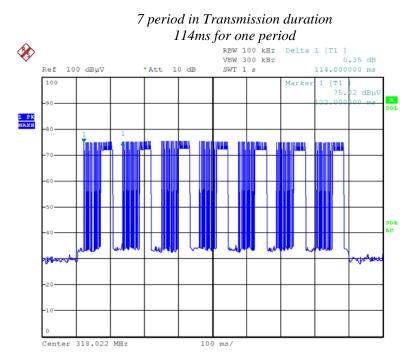
 $T_{on+off}{=}100\ ms$ 

Duty cycle = 38.96/100\*100%=38.96%

Duty Cycle Correction Factor= 20\*log(Duty cycle)= -8.19 dB

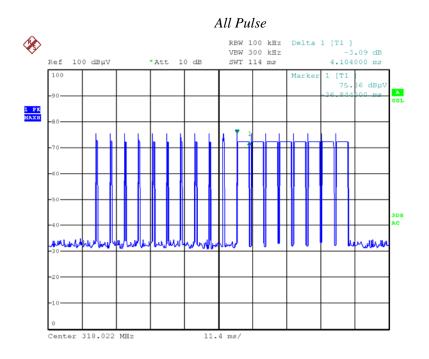


Date: 20.DEC.2017 20:43:32

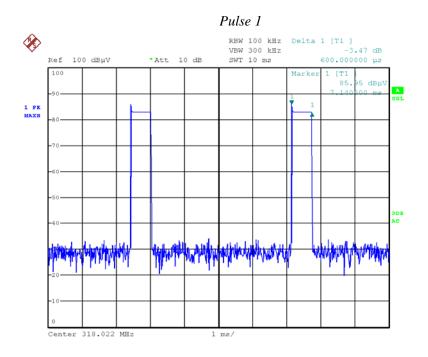


Date: 20.DEC.2017 20:44:32

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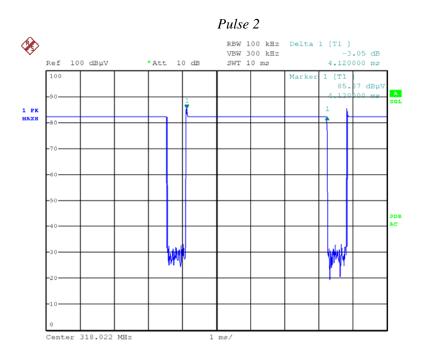


Date: 20.DEC.2017 20:46:09



Date: 21.DEC.2017 17:12:05

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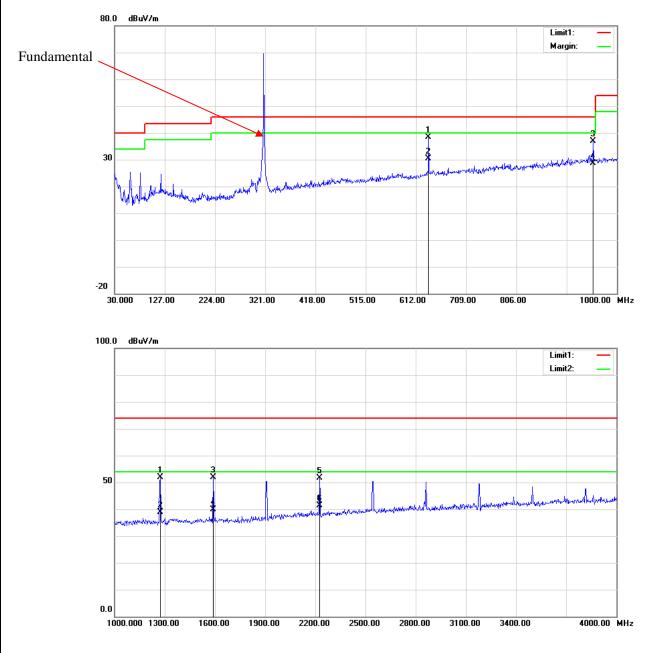


Date: 21.DEC.2017 17:10:59



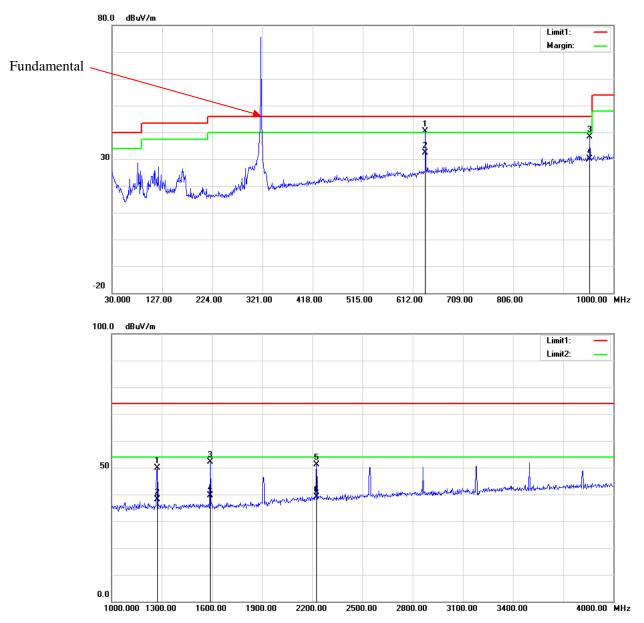
#### Peak Test plots

#### Horizontal:









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## FCC §15.231(c) – 20 dB BANDWIDTH TESTING

#### Requirement

Per 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. Bandwidth is determined at the points 20 dB down from the modulated carrier.

#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2017-09-01	2018-09-01
Sunol Sciences	Antenna	JB3	A060611-2	2017-08-25	2020-08-25
HP	Amplifier	8447D	2727A05902	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0400-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0075-01	2017-09-05	2018-09-05

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Procedure**

The waveform was received by the test antenna which was connected to the spectrum analyzer, plot the 20 dB bandwidth.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	28.5 °C
<b>Relative Humidity:</b>	49 %
ATM Pressure:	100.4 kPa

The testing was performed by Blake Yang on 2017-12-20.

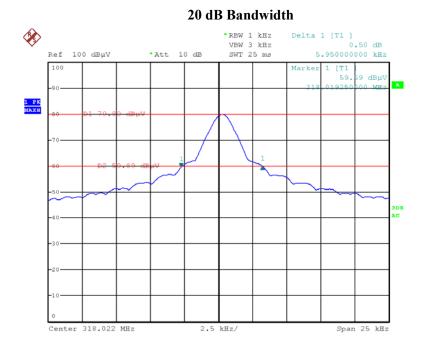
Test Mode: Transmitting

Please refer to following table and plot.

Channel Frequency	20 dB Bandwidth	Limit	Result
(MHz )	(kHz)	(kHz)	
318.022	5.95	795	Pass

**Note:** Limit = 0.25% \* Center Frequency = 0.25% \*318.022 MHz = 795 kHz

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## FCC §15.231(a) - DEACTIVATION TESTING

#### **Applicable Standard**

Per 15.231(a) (1), a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2017-09-01	2018-09-01
Sunol Sciences	Antenna	JB3	A060611-2	2017-08-25	2020-08-25
HP	Amplifier	8447D	2727A05902	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0400-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0075-01	2017-09-05	2018-09-05

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### Test Data

#### **Environmental Conditions**

Temperature:	28.5 °C
<b>Relative Humidity:</b>	49 %
ATM Pressure:	100.4 kPa

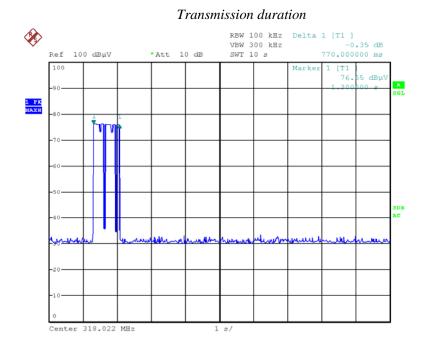
The testing was performed by Blake Yang on 2017-12-20.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following plot.

Deactivate Time (ms)	Limit	Result
770	<5s	Pass

#### Report No.: RDG170905008-00B



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#### \*\*\*\*\*END OF REPORT\*\*\*\*\*

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