

**FCC PART 95**  
**MEASUREMENT AND TEST REPORT**  
For  
**HENAN ESHOW ELECTRONIC COMMERCE CO.,  
LTD**

Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji District, Zhengzhou,  
Henan, China

**FCC ID: 2AAR8RETEVISRT388**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Two Way Radio
<b>Report Number:</b> <u>RDG171103001-00</u>	
<b>Report Date:</b> <u>2017-11-14</u>	
<b>Reviewed By:</b> Jerry Zhang EMC Manager <span style="float: right;"><i>Jerry Zhang</i></span>	
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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)

The **HENAN ESHOW ELECTRONIC COMMERCE CO., LTD**'s product, model number: **RT388** (**FCC ID: 2AAR8RETEVISRT388**) or the "EUT" in this report was a **Two Way Radio**, which was measured approximately: 14.5 cm (L) x 4.5 cm (W) x 3.8 cm (H), rated input voltage: DC 6V from battery.

*\*All measurement and test data in this report was gathered from production sample serial number: 171103001 (Assigned by BACL,Dongguan). The EUT was received on 2017-11-03.*

### Objective

This report is prepared on behalf of **HENAN ESHOW ELECTRONIC COMMERCE CO., LTD** in accordance with Part 2 and Part 95, Subpart B of the Federal Communication Commissions rules.

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

No related submittal(s).

### Test Methodology

All tests and measurements indicated in this document were performed in accordance with Part 95 Subpart B and Subpart E of the Federal Communication Commissions rules with TIA-603-D, Land Mobile FM or PM-Communications Equipment-Measurement and Performance Standards.

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

### Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30MHz ~ 1GHz:5.85 dB 1G~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%

## **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

### Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

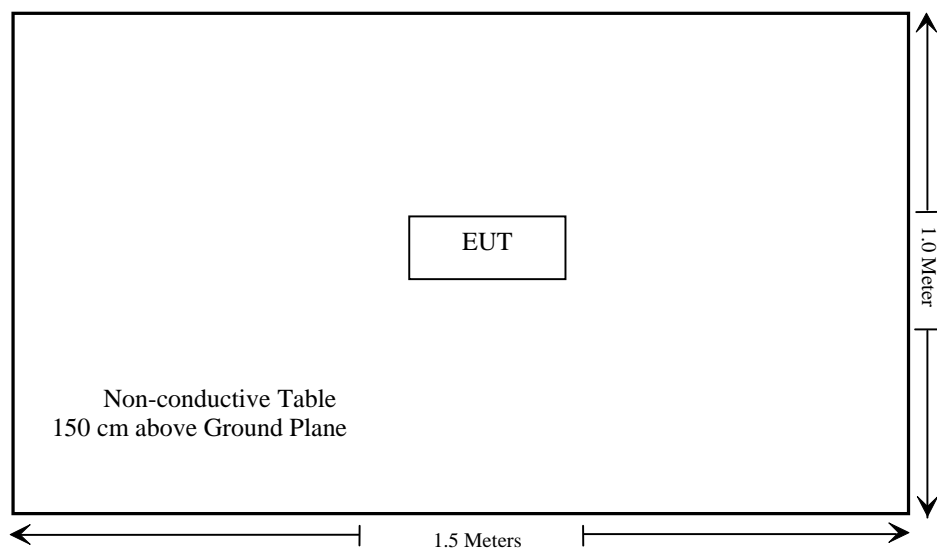
The device uses total 22 FRS channels as below:

Channel No.	(MHz)
1	462.5625
2	462.5875
3	462.6125
4	462.6375
5	462.6625
6	462.6875
7	462.7125
8	467.5625
9	467.5875
10	467.6125
11	467.6375
12	467.6625
13	467.6875
14	467.7125
15	462.5500
16	462.5750
17	462.6000
18	462.6250
19	462.6500
20	462.6750
21	462.7000
22	462.7250

### Equipment Modifications

No modification was made to the EUT tested.

Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Results
§2.1093	RF Exposure	Compliance
§2.1046, §95.567	RF Output Power	Compliance
§2.1047, §95.575	Modulation Characteristic	Compliance
§2.1049, §95.573, §95.579	Authorized Bandwidth & Emission Mask	Compliance
§2.1053, §95.579	Spurious Radiated Emissions	Compliance
§2.1055(d), §95.565	Frequency Stability	Compliance

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## **FCC §2.1093 - RF EXPOSURE INFORMATION**

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### **Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

### **Test Result**

Please refer to SAR Report Number: RDG171103001-20.



## FCC §2.1046, §95.567 - RF OUTPUT POWER

### Applicable Standard

According to FCC §95.567

Each FRS transmitter type must be designed such that the effective radiated power (ERP) on channels 8 through 14 does not exceed 0.5 Watts and the ERP on channels 1 through 7 and 15 through 22 does not exceed 2.0 Watts.

### Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the emissions were measured by the substitution.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Signal Generator	E8247C	MY43321350	2017-09-23	2018-09-22
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-2	2017-08-25	2020-08-25
R&S	EMI Test Receiver	ESCI	100224	2017-09-01	2018-09-01
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	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:	26.3 °C
Relative Humidity:	29.8%
ATM Pressure:	101.1 kPa

*The testing was performed by Blake Yang on 2017-11-08*

*Test Mode: Transmitting***ERP:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FRS, Frequency:462.6375MHz								
462.6375	H	88.42	7.1	0.0	0.7	6.4	33.0	26.6
462.6375	V	97.47	19.1	0.0	0.7	18.4	33.0	14.6
FRS, Frequency:467.6375MHz								
467.6375	H	89.15	8	0.0	0.7	7.3	27.0	19.7
467.6375	V	98.01	19.8	0.0	0.7	19.1	27.0	7.9

**Test Result:** Compliance.

**FCC §2.1047 & §95.575 - MODULATION CHARACTERISTIC****Applicable Standard**

Per FCC §2.1047 and §95.575:

Each FRS transmitter type must be designed such that the peak frequency deviation does not exceed 2.5 kHz, and the highest audio frequency contributing substantially to modulation must not exceed 3.125 kHz.

**Test Equipment List and Details**

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
HP	RF Communications Test Set	8920A	00 235	2017-07-11	2018-07-11
LEADER	Millivoltmeter	LMV-181A	601788	2017-08-11	2018-08-10
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2017-05-06	2018-05-06
E-Microwave	RF Attenuator	10dB	10dB-1	Each Time	/
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each Time	/

**\* 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**

Test Method: TIA/EIA-603-D

**Test Data****Environmental Conditions**

Temperature:	27.4 °C
Relative Humidity:	55 %
ATM Pressure:	100.9 kPa

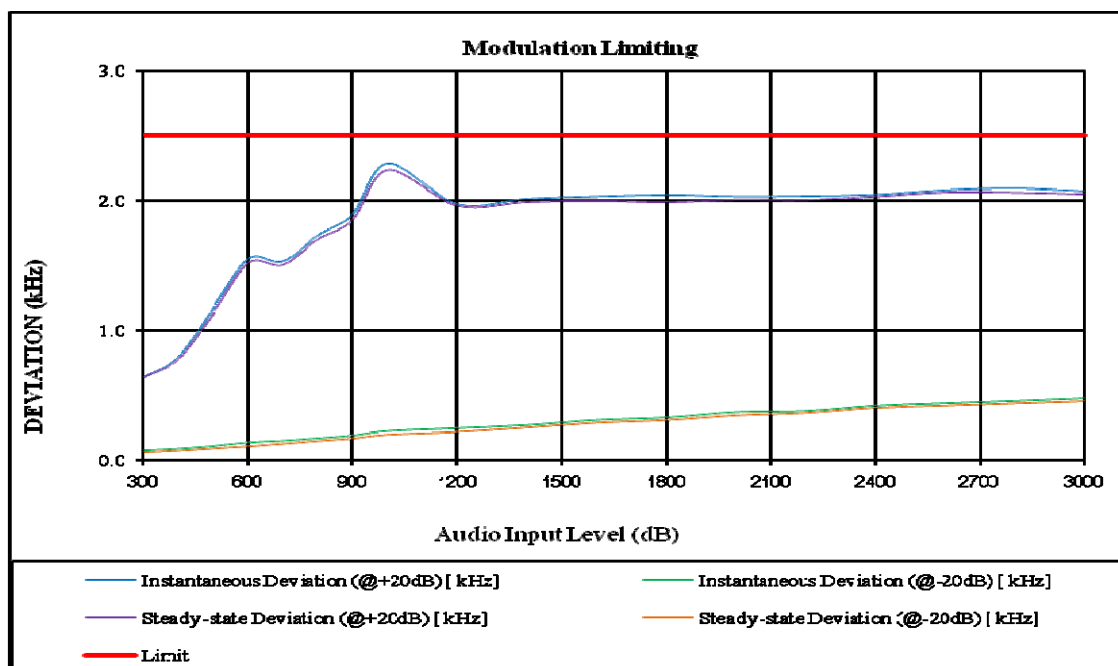
*The testing was performed by Kami Zhou on 2017-11-10.*

Please refer to the following tables and plots.

*Test Mode: Transmitting***MODULATION LIMITING**

Carrier Frequency: 462.6375 MHz

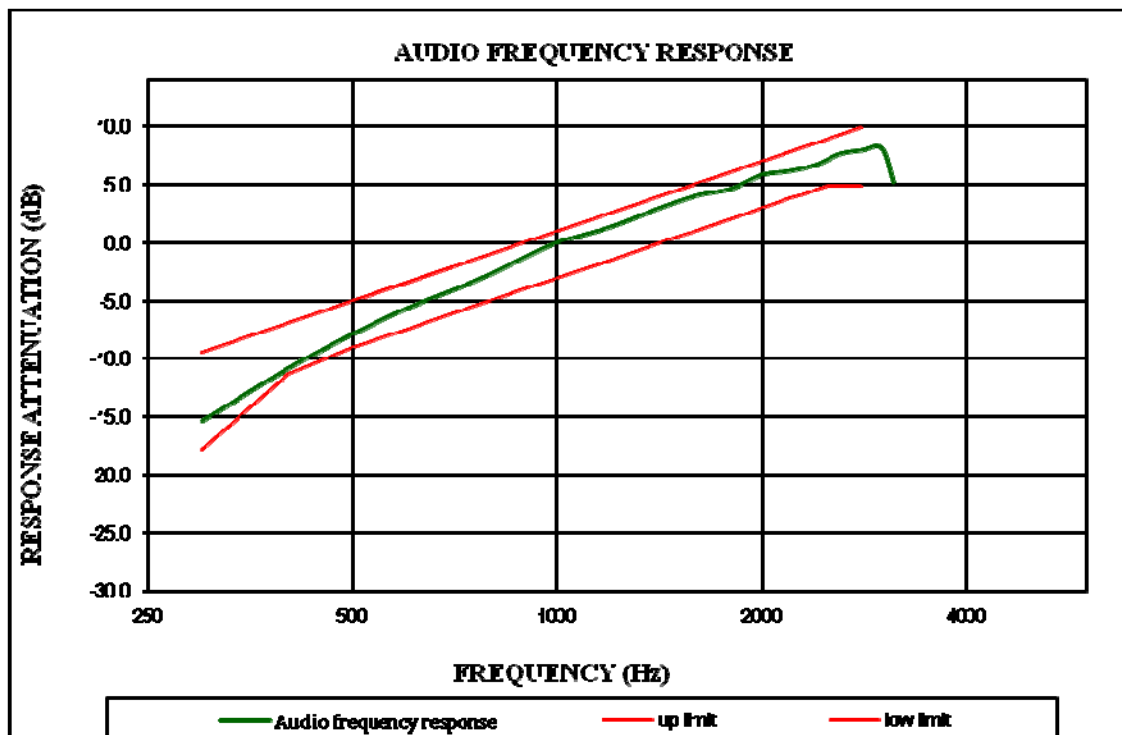
Audio Frequency (Hz)	Instantaneous		Steady-state		Limit [kHz]
	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	
300	0.641	0.083	0.639	0.067	2.5
400	0.798	0.095	0.781	0.079	2.5
500	1.175	0.115	1.134	0.096	2.5
600	1.552	0.143	1.519	0.112	2.5
700	1.532	0.156	1.504	0.132	2.5
800	1.734	0.175	1.703	0.154	2.5
900	1.894	0.197	1.850	0.173	2.5
1000	2.285	0.231	2.234	0.202	2.5
1200	1.973	0.253	1.961	0.223	2.5
1400	2.013	0.276	1.989	0.256	2.5
1600	2.031	0.315	1.997	0.293	2.5
1800	2.043	0.334	1.988	0.313	2.5
2000	2.031	0.376	2.003	0.350	2.5
2200	2.034	0.385	2.002	0.369	2.5
2400	2.045	0.427	2.029	0.408	2.5
2600	2.081	0.447	2.063	0.426	2.5
2800	2.094	0.465	2.061	0.444	2.5
3000	2.073	0.485	2.048	0.461	2.5



**Audio Frequency Response**

Carrier Frequency: 462.6375 MHz

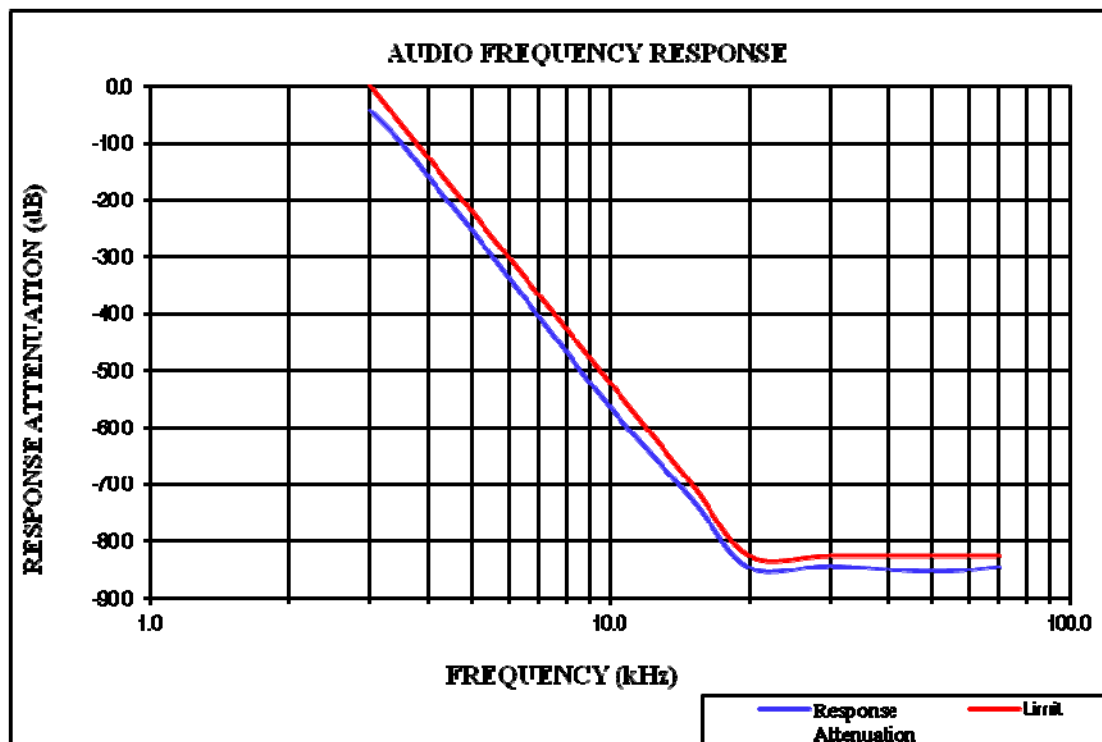
Audio Frequency (Hz)	Response Attenuation (dB)
300	-15.35
400	-10.87
500	-7.86
600	-5.66
700	-4.11
800	-2.66
900	-1.19
1000	0.00
1200	1.36
1400	2.88
1600	4.03
1800	4.63
2000	5.82
2200	6.15
2400	6.69
2600	7.61
2800	7.93
3000	8.12
3125	5.11



**Audio Low Pass Filter Response**

Carrier Frequency: 462.6375 MHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	-4.2	0.0
3.5	-9.7	-6.7
4.0	-15.7	-12.5
5.0	-25.3	-22.2
7.0	-40.5	-36.8
10.0	-56.5	-52.3
15.0	-72.5	-69.9
20.0	-84.6	-82.5
30.0	-84.3	-82.5
50.0	-85.3	-82.5
70.0	-84.5	-82.5



**FCC §2.1049, §95.573, §95.579 - AUTHORIZED BANDWIDTH AND EMISSION MASK****Applicable Standard**

According to §95.573

Each FRS transmitter type must be designed such that the occupied bandwidth does not exceed 12.5 kHz.

According to §95.579

Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph.

(a) Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:

- (1) 25 dB (decibels) in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.
- (2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency.
- (3)  $43 + 10 \log (P)$  dB in any frequency band removed from the channel center frequency by more than 31.25 kHz.

**Test Procedure**

TIA-603-D, section 2.2.11

**Test Equipment List and Details**

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSIQ	831929/005	2017-08-31	2018-08-31
HP	RF Communications Test Set	8920A	00 235	2017-07-11	2018-07-11
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2017-05-06	2018-05-06
E-Microwave	RF Attenuator	10dB	10dB-1	Each Time	/
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each Time	/

**\* 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**

<b>Temperature:</b>	27.1~27.4 °C
<b>Relative Humidity:</b>	55~64 %
<b>ATM Pressure:</b>	100.9~101.6 kPa

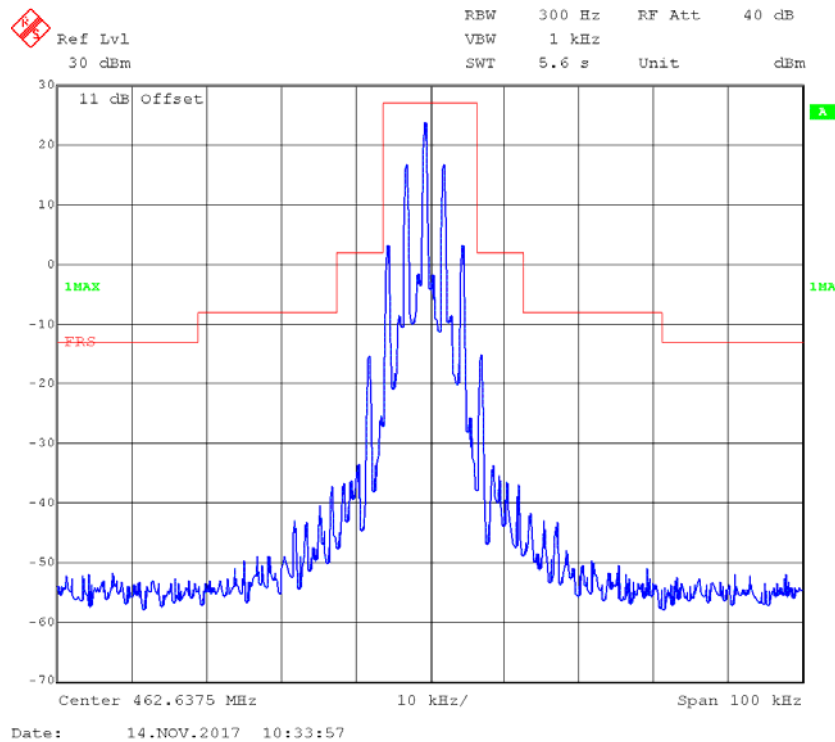
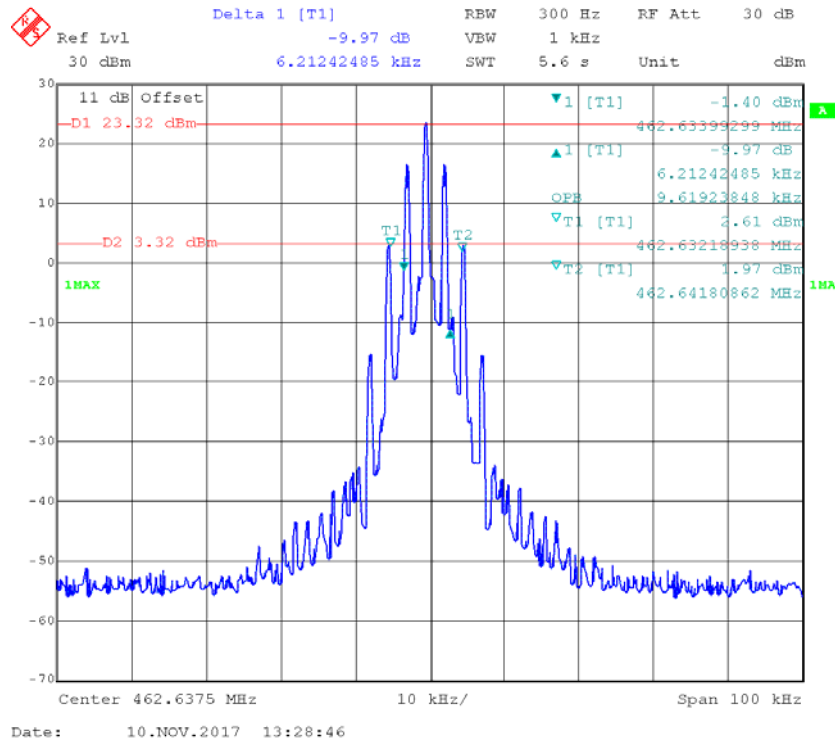
*The testing was performed by Kami Zhou on 2017-11-10&2017-11-14.*

Test Mode: Transmitting

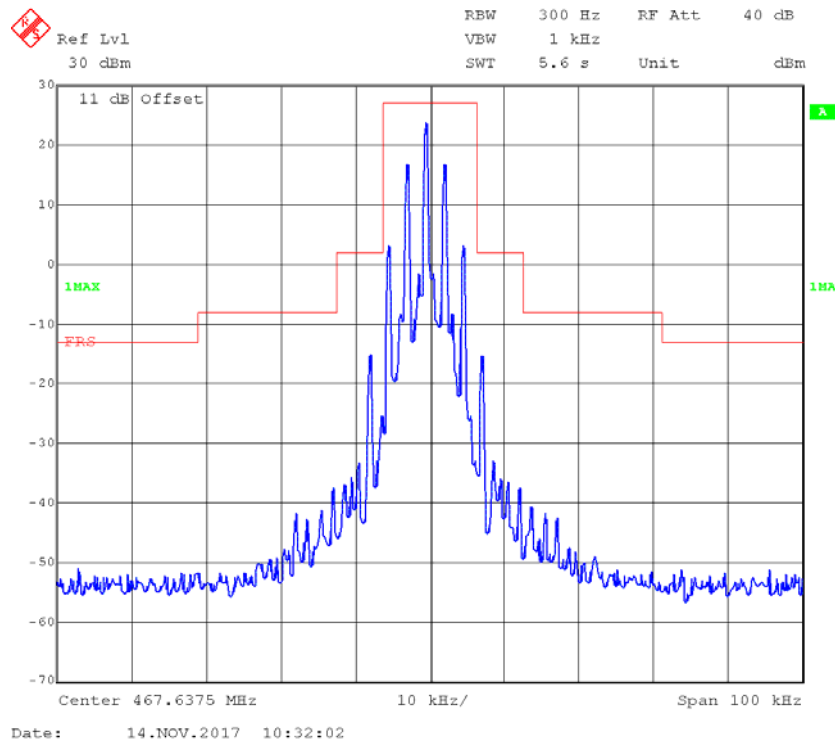
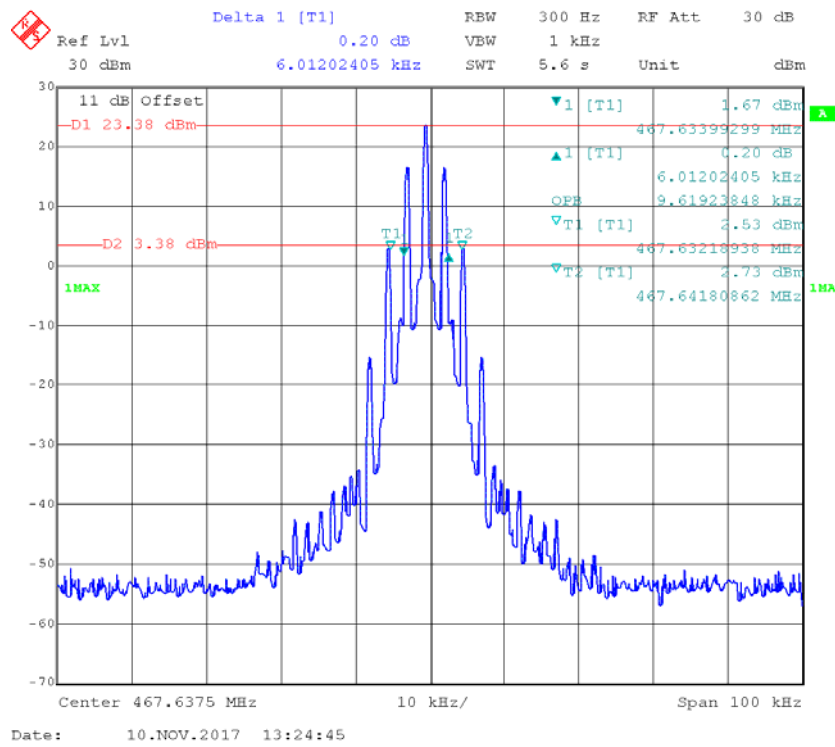
<b>fc (MHz)</b>	<b>99% Occupied Bandwidth (kHz)</b>	<b>20 dB Bandwidth (kHz)</b>	<b>Limit (kHz)</b>
462.6375	9.619	6.212	12.5
467.6375	9.619	6.012	12.5



462.6375 MHz



467.6375 MHz



## FCC §2.1053 & §95.579 - RADIATED SPURIOUS EMISSION

### Applicable Standard

FCC §2.1053 and §95.579

### Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001)-the absolute level  
Spurious attenuation limit in dB = 43+10 Log<sub>10</sub> (power out in Watts)

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Signal Generator	E8247C	MY43321350	2017-09-23	2018-09-22
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-2	2017-08-25	2020-08-25
R&S	EMI Test Receiver	ESCI	100224	2017-09-01	2018-09-01
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2017-09-05	2018-09-05
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2017-09-05	2018-09-05
TDK RF	Horn Antenna	HRN-0118	130 084	2016-01-05	2019-01-04
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
Agilent	Spectrum Analyzer	E4440A	SG43360054	2016-12-08	2017-12-08
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2017-09-05	2018-09-05
HP	Signal Generator	1026	320408	2016-12-08	2017-12-08

\* **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**

<b>Temperature:</b>	25.1~26.3 °C
<b>Relative Humidity:</b>	29.8~39 %
<b>ATM Pressure:</b>	100.9~101.1 kPa

The testing was performed by Blake Yang & Steven Zuo on 2017-11-08&2017-11-10.

Test Mode: Transmitting

**30MHz-5GHz:**

50MHz 50Hz

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
frequency:462.6375MHz								
925.275	H	41.65	-32.1	0.0	1.1	-33.2	-13.0	20.2
925.275	V	42.73	-27.7	0.0	1.1	-28.8	-13.0	15.8
386.000	H	38.20	-45	0.0	0.6	-45.6	-13.0	32.6
253.000	V	39.42	-43.6	0.0	0.5	-44.1	-13.0	31.1
1387.913	H	72.13	-41.1	8.9	1.2	-33.4	-13.0	20.4
1387.913	V	75.06	-38.8	8.9	1.2	-31.1	-13.0	18.1
1850.550	H	67.84	-45.7	11.4	0.9	-35.2	-13.0	22.2
1850.550	V	68.34	-45.6	11.4	0.9	-35.1	-13.0	22.1
2313.188	V	71.34	-40.9	11.4	1.2	-30.7	-13.0	17.7
2313.188	H	72.49	-39.8	11.4	1.2	-29.6	-13.0	16.6
2775.825	H	69.28	-42.9	13.1	1.3	-31.1	-13.0	18.1
2775.825	V	69.87	-42.5	13.1	1.3	-30.7	-13.0	17.7
3238.463	H	59.42	-50.7	13.6	1.6	-38.7	-13.0	25.7
3238.463	V	60.34	-49.9	13.6	1.6	-37.9	-13.0	24.9
frequency:467.6375MHz								
935.275	H	42.01	-31.4	0.0	1.1	-32.5	-13.0	19.5
935.275	V	43.11	-27	0.0	1.1	-28.1	-13.0	15.1
306.000	H	36.75	-48	0.0	0.5	-48.5	-13.0	35.5
423.000	V	37.88	-41.7	0.0	0.6	-42.3	-13.0	29.3
1402.913	H	73.32	-39.9	9.0	1.2	-32.1	-13.0	19.1
1402.913	V	75.48	-38.4	9.0	1.2	-30.6	-13.0	17.6
1870.550	H	68.25	-45	11.6	0.9	-34.3	-13.0	21.3
1870.550	V	70.13	-43.5	11.6	0.9	-32.8	-13.0	19.8
2338.118	V	72.41	-40	11.6	1.3	-29.7	-13.0	16.7
2338.118	H	69.24	-43.1	11.6	1.3	-32.8	-13.0	19.8
2805.825	H	70.22	-42	13.2	1.4	-30.2	-13.0	17.2
2805.825	V	61.14	-51.2	13.2	1.4	-39.4	-13.0	26.4
3273.463	H	58.42	-52.1	13.6	1.6	-40.1	-13.0	27.1
3273.463	V	59.21	-51.3	13.6	1.6	-39.3	-13.0	26.3

**FCC§2.1055 (d), §95.565- FREQUENCY STABILITY****Applicable Standard**

According to FCC §2.1055(a) (1),

The frequency stability shall be measured with variation of ambient temperature from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ , and according to FCC 2.1055(d) (2), the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point which is specified by the manufacturer.

According to FCC §95.565

Each FRS transmitter type must be designed such that the carrier frequencies remain within  $\pm 2.5$  parts-per-million of the channel center frequencies specified in § 95.563 during normal operating conditions.

**Test Procedure**

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Frequency Counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Frequency Counter.

Frequency Stability vs. Voltage:

1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

The output frequency was recorded for each voltage.

**Test Equipment List and Details**

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-4	2017-09-10	2018-09-10
UNI-T	Multimeter	UT39A	M130199938	2017-04-10	2018-04-10
HP	RF Communications Test Set	8920A	00 235	2017-07-11	2018-07-11
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2017-05-06	2018-05-06
E-Microwave	RF Attenuator	10dB	10dB-1	Each Time	/
Pro instrument	DC Power Supply	pps3300	N/A	N/A	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each Time	/

\* **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**

<b>Temperature:</b>	27.4 °C
<b>Relative Humidity:</b>	55 %
<b>ATM Pressure:</b>	100.9 kPa

The testing was performed by Kami Zhou on 2017-11-10.

Test Mode: Transmitting

FRS, Reference Frequency: 462.6375 MHz				
Temperature	Voltage	Reading	Frequency Error	Limit
°C	Vdc	MHz	ppm	ppm
-30	6	462.6372	-0.65	2.5
-20		462.6369	-1.30	
-10		462.6368	-1.51	
0		462.6380	1.08	
10		462.6373	-0.43	
20		462.6370	-1.08	
30		462.6381	1.30	
40		462.6369	-1.30	
50		462.6371	-0.86	
25	3.2	462.6367	-1.73	

FRS, Reference Frequency: 467.6375 MHz				
Temperature	Voltage	Reading	Frequency Error	Limit
°C	Vdc	MHz	ppm	ppm
-30	6	467.6370	-1.07	2.5
-20		467.6382	1.50	
-10		467.6366	-1.92	
0		467.6368	-1.50	
10		467.6368	-1.50	
20		467.6370	-1.07	
30		467.6380	1.07	
40		467.6380	1.07	
50		467.6380	1.07	
25	3.2	467.6381	1.28	

Note: The extreme low voltage was declared by applicant.

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