



FCC PART 95

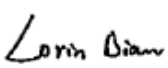
MEASUREMENT AND TEST REPORT

For

HENAN ESHOW ELECTRONIC COMMERCE CO., LTD

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

FCC ID: 2AAR8RETEVISRT36

Report Type: Original Report	Product Type: Walkie Talkie
Test Engineer: Lorin Bian 	
Report Number: RDG170628003	
Report Date: 2017-08-03	
Reviewed By: Henry Ding  EMC Leader	
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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The **HENAN ESHOW ELECTRONIC COMMERCE CO., LTD**'s product, model number: **RT36 (FCC ID: 2AAR8RETEVISRT36)** or the "EUT" in this report was a **Walkie Talkie**, which was measured approximately: 11.05 cm (H) x 5.70 cm (W) x 3.00 cm (H), rated input voltage: DC3.6V from 3 battery or DC 5V from adapter.

Adapter Information:

MODEL: DSA-5PF07-05 FUS 050100

INPUT: AC 100-240V, 50/60Hz, 0.2A

OUTPUT: DC 5V, 1A

**All measurement and test data in this report was gathered from final production sample, serial number: 170628003 (assigned by the BACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2017-03-12, and EUT conformed to test requirement.*

Objective

This report is prepared on behalf of **HENAN ESHOW ELECTRONIC COMMERCE CO., LTD** in accordance with Part 2 and Part 95, Subpart B & Subpart E 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. (Chengdu). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The test site used by BACL to collect test data is located in the No.5040, Huilongwan Plaza, No.1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

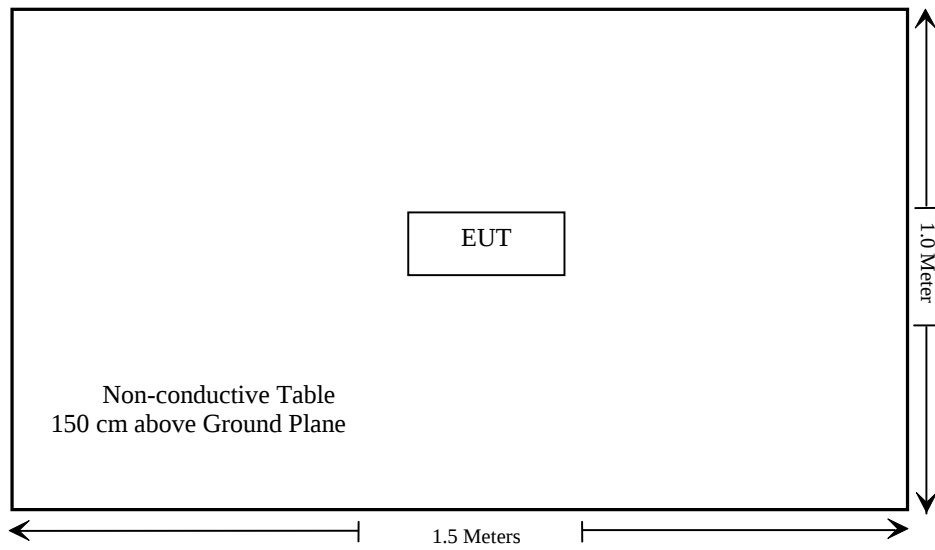
The device uses total 14 FRS channels as below:

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

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, §95.639	RF Output Power	Compliance
§2.1047, §95.637(a)	Modulation Characteristic	Compliance
§2.1049, §95.633(a), §95.635	Authorized Bandwidth & Emission Mask	Compliance
§2.1053, §95.635	Spurious Radiated Emissions	Compliance
§2.1055(d), §95.626	Frequency Stability	Compliance

FCC §2.1093 - RF EXPOSURE INFORMATION

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: RDG170628003-20.

FCC §2.1046, §95.639 - RF OUTPUT POWER

Applicable Standard

According to FCC §95.639

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
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
HP	RF Communications Test Set	8920A	00 247	2016-08-10	2017-08-10
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A121808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-0113024	2017-06-16	2020-06-15
EMCO	Adjustable Dipole Antenna	3121C	9109-258	N/A	N/A
HP	Signal Generator	8648C	3623A04150	2017-05-23	2018-05-22
WILTRON	SWEPT FREQUENCY SYNTHESIZER	6737	213001	2017-05-23	2018-05-22
EMCT	Semi-Anechoic Chamber	966	966-1	2015-04-24	2018-04-23
Unknown	RF Cable (below 1GHz)	Unknown	NO.1	2016-11-10	2017-11-09
Unknown	RF Cable (below 1GHz)	Unknown	NO.4	2016-11-10	2017-11-09
Unknown	RF Cable (above 1GHz)	Unknown	NO.2	2016-11-10	2017-11-09
Unknown	RF Attenuator	Unknown	20dB	Each Time	/

*** Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

Temperature:	28.9 °C
Relative Humidity:	51.3 %
ATM Pressure:	100.1 kPa

-The testing was performed by Lorin Bian on 2017-07-04.

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	94.31	13	0.0	0.7	12.3	27	14.7
462.6375	V	96.34	18	0.0	0.7	17.3	27	9.7
FRS, Frequency:467.6375MHz								
467.6375	H	77.15	-4	0.0	0.7	-4.7	27	31.7
467.6375	V	92.43	14.2	0.0	0.7	13.5	27	13.5

Test Result: Compliance.

FCC §2.1047 & §95.637(a) - MODULATION CHARACTERISTIC

Applicable Standard

Per FCC §2.1047 and §95.637(a): A GMRS transmitter that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 5 kHz. A FRS unit that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 2.5 kHz, and the audio frequency response must not exceed 3.125 kHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	RF Communications Test Set	8920A	00 247	2016-08-10	2017-08-09
LEADER	Millivoltmeter	LMV-181A	601561	2016-08-10	2017-08-09
Unknown	RF Attenuator	Unknown	20dB	Each Time	/

*** Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Procedure

Test Method: TIA/EIA-603-D

Test Data

Environmental Conditions

Temperature:	28.9 °C
Relative Humidity:	41.5%
ATM Pressure:	100.1 kPa

The testing was performed by Lorin Bian on 2017-06-05.

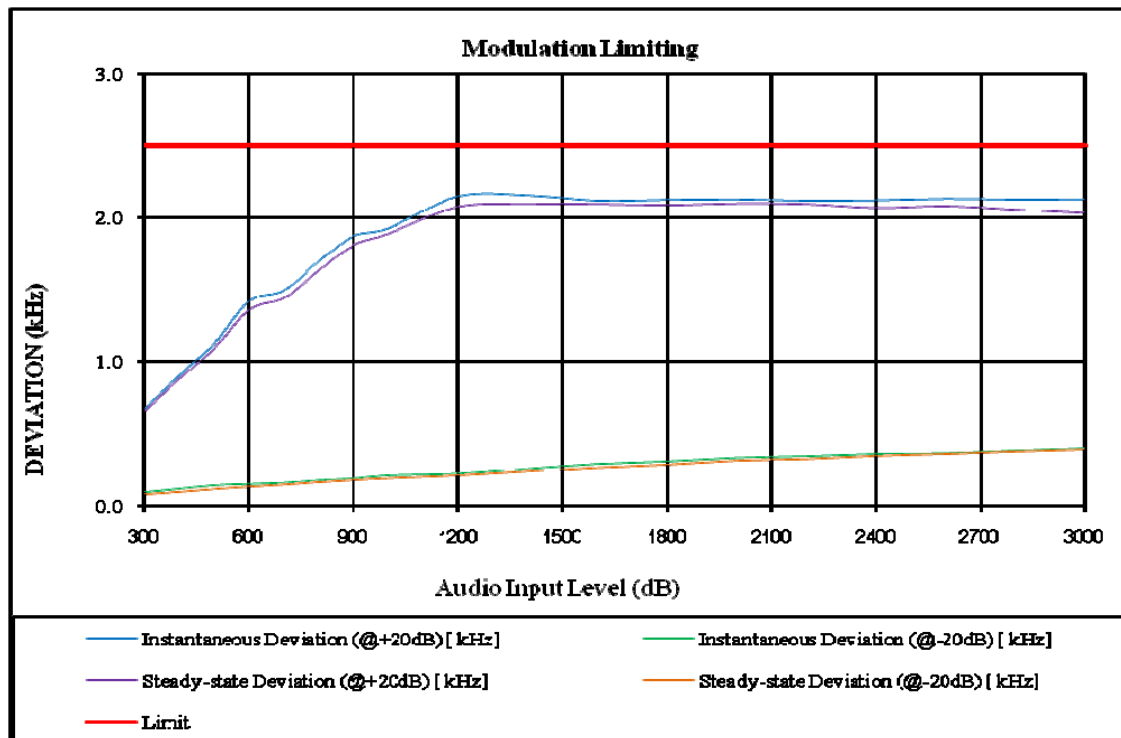
Please refer to the following tables and plots.

Test Mode: Transmitting

MODULATION LIMITING

Carrier Frequency: 467.6375 MHz

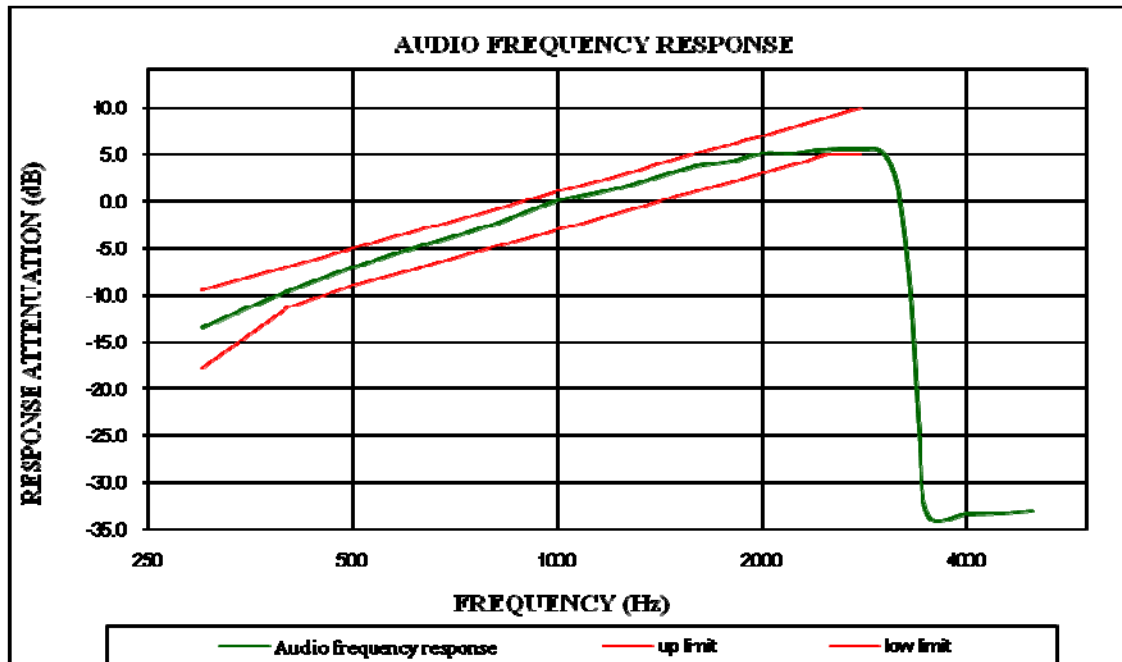
Audio Frequency (Hz)	Instantaneous		Steady-state		Limit [kHz]
	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	
300	0.675	0.097	0.654	0.085	2.5
400	0.912	0.121	0.882	0.102	2.5
500	1.127	0.145	1.088	0.121	2.5
600	1.423	0.154	1.361	0.137	2.5
700	1.497	0.162	1.442	0.151	2.5
800	1.698	0.179	1.632	0.168	2.5
900	1.872	0.191	1.809	0.182	2.5
1000	1.926	0.213	1.889	0.194	2.5
1200	2.147	0.225	2.076	0.213	2.5
1400	2.154	0.261	2.095	0.241	2.5
1600	2.118	0.295	2.095	0.268	2.5
1800	2.124	0.312	2.088	0.288	2.5
2000	2.127	0.338	2.099	0.316	2.5
2200	2.118	0.349	2.095	0.327	2.5
2400	2.121	0.364	2.069	0.349	2.5
2600	2.131	0.369	2.081	0.362	2.5
2800	2.126	0.387	2.057	0.378	2.5
3000	2.128	0.402	2.033	0.391	2.5



Audio Frequency Response

Carrier Frequency: 467.6375 MHz

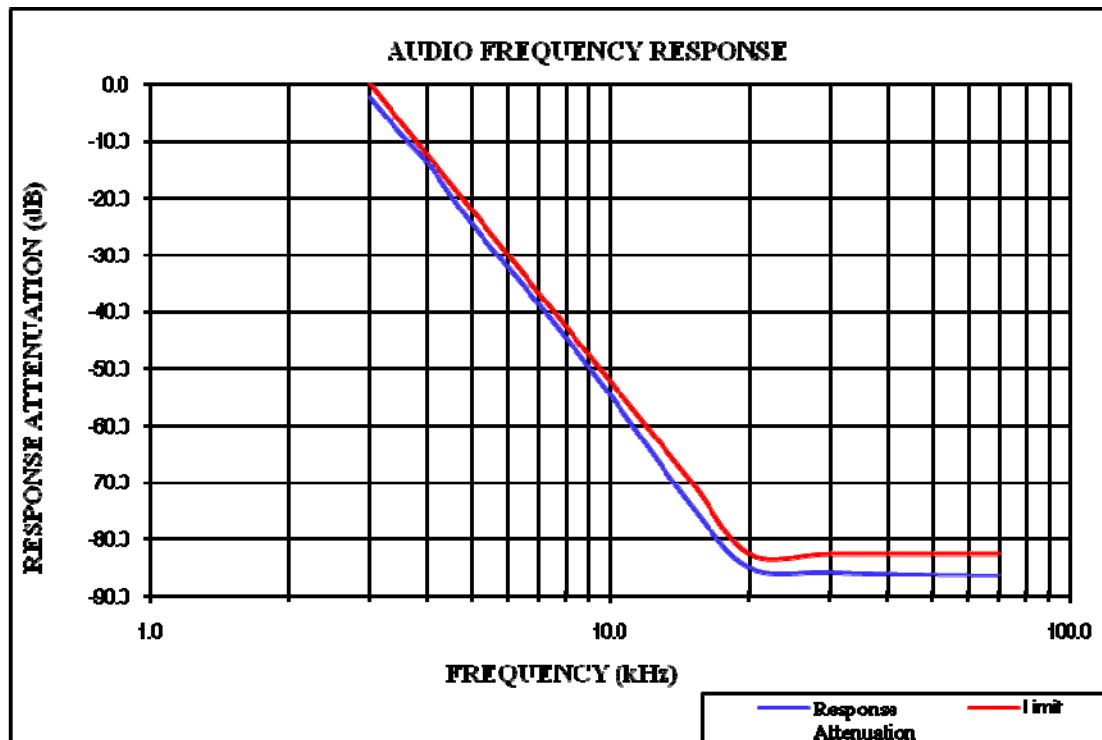
Audio Frequency (Hz)	Response Attenuation (dB)
300	-13.45
400	-9.87
500	-7.08
600	-5.23
700	-3.79
800	-2.57
900	-1.16
1000	0.00
1200	1.16
1400	2.59
1600	3.78
1800	4.25
2000	5.04
2200	5.38
2400	5.42
2600	5.58
2800	5.87
3000	5.44
3125	3.13
3200	-0.32
3300	-9.97
3400	-24.53
3500	-33.58
4000	-33.47
4500	-33.31
5000	-33.12



Audio Low Pass Filter Response

Carrier Frequency: 467.6375 MHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	-2.3	0.0
3.5	-8.7	-6.7
4.0	-13.8	-12.5
5.0	-24.6	-22.2
7.0	-38.7	-36.8
10.0	-54.7	-52.3
15.0	-74.1	-69.9
20.0	-84.9	-82.5
30.0	-85.7	-82.5
50.0	-86.2	-82.5
70.0	-86.3	-82.5



FCC §2.1049,§95.633, §95.635 - AUTHORIZED BANDWIDTH AND EMISSION MASK

Applicable Standard

According to §95.633

(a) The authorized bandwidth (maximum permissible bandwidth of a transmission) for emission type H1D, J1D, R1D, H3E, J3E or R3E is 4 kHz. The authorized bandwidth for emission type A1D or A3E is 8 kHz. The authorized bandwidth for emission type F1D, G1D, F3E or G3E is 20 kHz.

(c) The authorized bandwidth for emission type F3E or F2D transmitted by a FRS unit is 12.5 kHz.

According to §95.635(b) The power of each unwanted emission shall be less than TP as specified in the applicable paragraphs listed in the following:

(1) At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.

(3) At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 250% of the authorized bandwidth.

(7) At least $43 + 10 \log_{10}(T)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

Test Procedure

TIA-603-D, section 2.2.11

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
HP	RF Communications Test Set	8920A	00 247	2016-08-10	2017-08-09
Unknown	RF Attenuator	Unknown	20dB	Each Time	/

*** Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

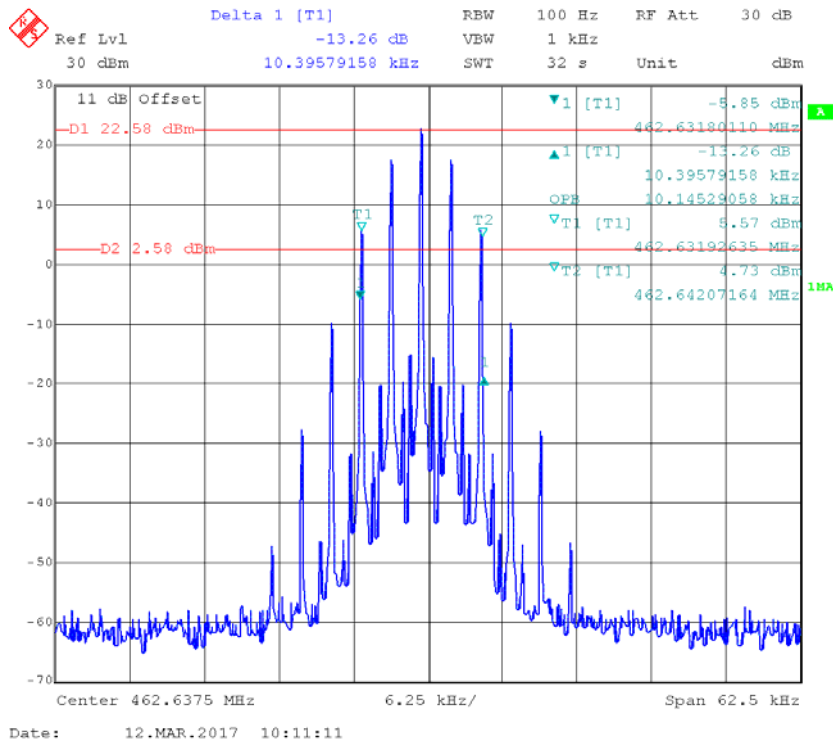
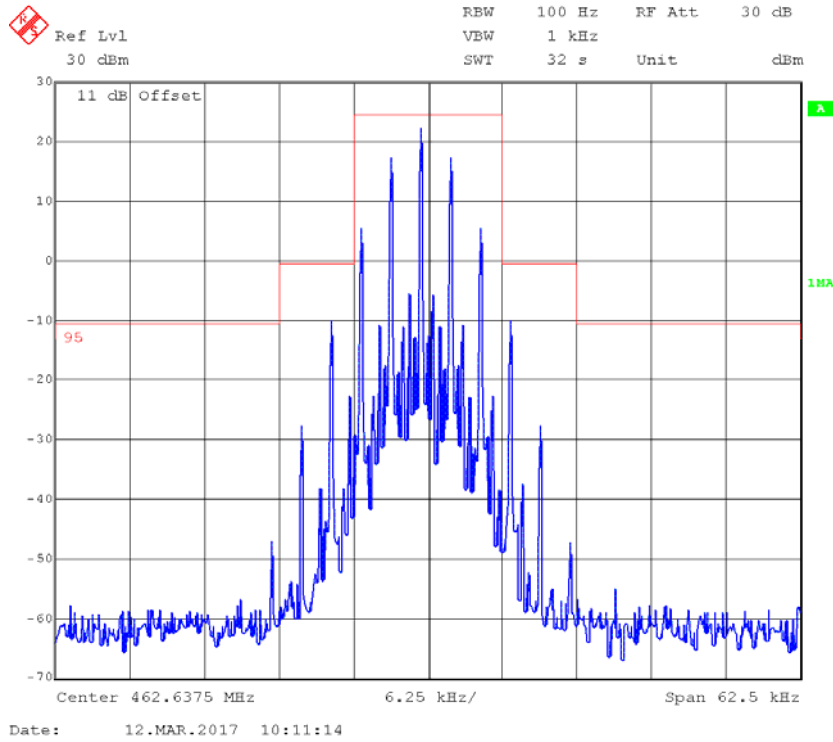
Temperature:	29.9 °C
Relative Humidity:	61.8 %
ATM Pressure:	100.1 kPa

The testing was performed by Lorin Bian on 2017-03-12.

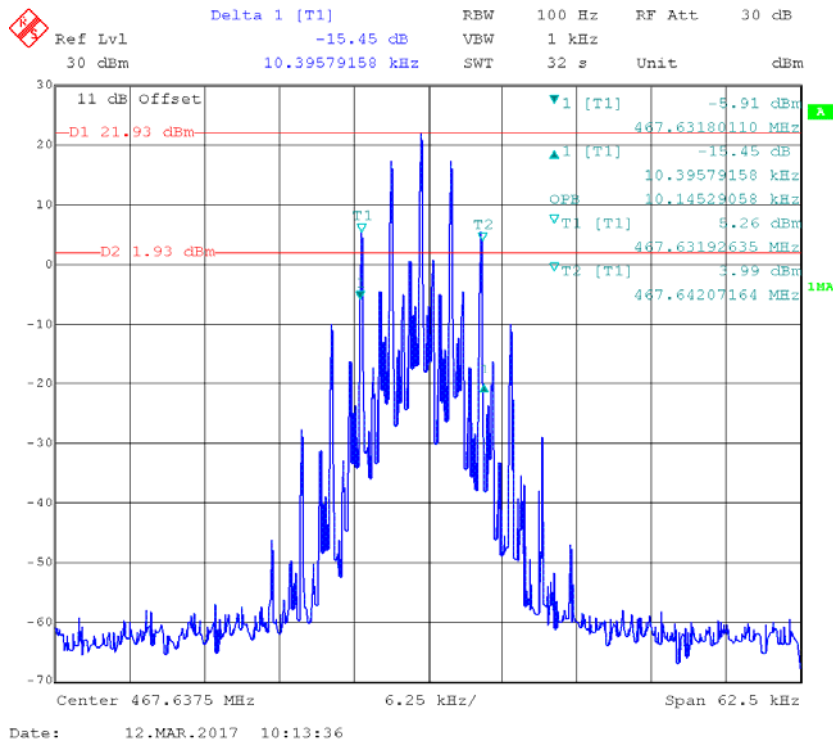
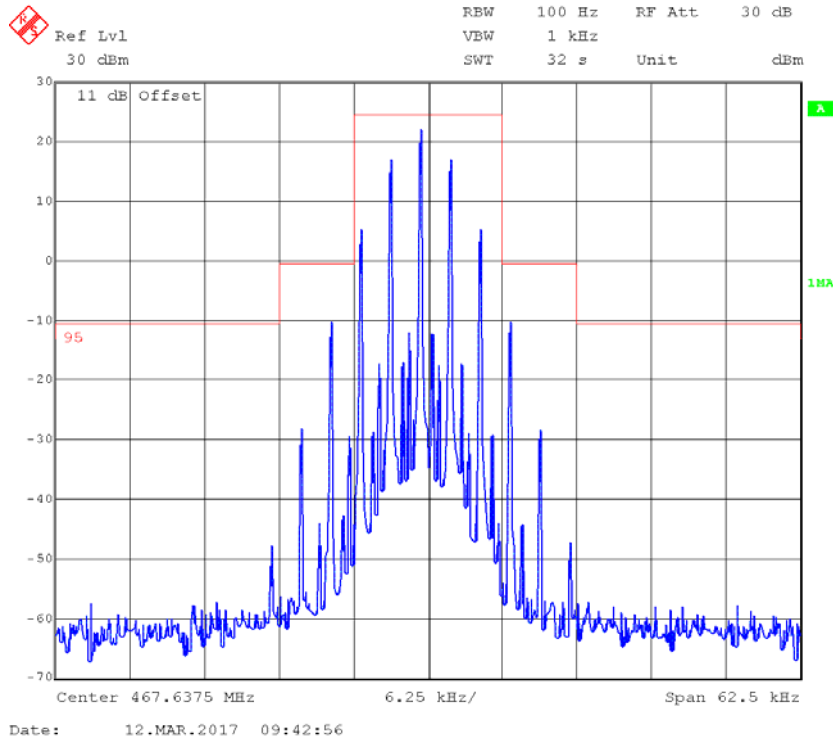
Test Mode: Transmitting

fc (MHz)	99% Occupied Bandwidth (kHz)	20 dB Bandwidth (kHz)	Limit (kHz)
462.637500	10.15	10.396	12.5
467.6375	10.15	10.396	12.5

462.63750 MHz



467.6375 MHz



FCC §2.1053 & §95.635 - RADIATED SPURIOUS EMISSION

Applicable Standard

FCC §2.1053 and §95.635

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 Log₁₀ (power out in Watts)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A121808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-0113024	2014-06-16	2017-06-15
EMCO	Adjustable Dipole Antenna	3121C	9109-258	N/A	N/A
HP	Signal Generator	8648C	3623A04150	2017-05-23	2018-05-22
WILTRON	SWEPT FREQUENCY SYNTHESIZER	6737	213001	2017-05-23	2018-05-22
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2017-05-20	2018-05-19
EMCT	Semi-Anechoic Chamber	966	966-1	2015-04-24	2018-04-23
Unknown	RF Cable(below 1GHz)	Unknown	NO.1	2016-11-10	2017-11-09
Unknown	RF Cable(below 1GHz)	Unknown	NO.4	2016-11-10	2017-11-09
Unknown	RF Cable(above 1GHz)	Unknown	NO.2	2016-11-10	2017-11-09

*** Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

Temperature:	28.9 °C
Relative Humidity:	41.5 %
ATM Pressure:	100.1 kPa

The testing was performed by Lorin Bian on 2017-06-05.

Test Mode: Transmitting

30MHz-5GHz:

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:462.63750MHz								
925.275	H	39.24	-34.5	0.0	1	-35.5	-13.0	22.5
925.275	V	40.35	-30.1	0.0	1	-31.1	-13.0	18.1
1387.913	H	58.46	-54.8	8.9	2.3	-48.2	-13.0	35.2
1387.913	V	59.78	-54.1	8.9	2.3	-47.5	-13.0	34.5
1850.550	H	64.56	-49	11.4	2.6	-40.2	-13.0	27.2
1850.550	V	67.39	-46.6	11.4	2.6	-37.8	-13.0	24.8
2313.188	H	67.05	-45.2	11.4	3	-36.8	-13.0	23.8
2313.188	V	69.41	-42.8	11.4	3	-34.4	-13.0	21.4
2775.825	H	71.34	-40.9	13.1	3.2	-31.0	-13.0	18.0
2775.825	V	73.26	-39.1	13.1	3.2	-29.2	-13.0	16.2
3240.000	H	55.27	-54.9	13.6	3.5	-44.8	-13.0	31.8
3240.000	V	57.84	-52.4	13.6	3.5	-42.3	-13.0	29.3
3700.000	H	64.57	-44.5	14.0	3.7	-34.2	-13.0	21.2
3700.000	V	66.73	-42.4	14.0	3.7	-32.1	-13.0	19.1
4160.000	H	55.49	-53.5	13.9	4	-43.6	-13.0	30.6
4160.000	V	58.56	-50.5	13.9	4	-40.6	-13.0	27.6
4626.375	H	61.24	-47.2	14.3	4.4	-37.3	-13.0	24.3
4626.375	V	63.37	-45.2	14.3	4.4	-35.3	-13.0	22.3

30MHz-5GHz:

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:467.6375MHz								
935.276	H	40.69	-32.7	0.0	1	-33.7	-13.0	20.7
935.276	V	41.23	-28.9	0.0	1	-29.9	-13.0	16.9
1402.913	H	56.78	-56.5	9.0	2.3	-49.8	-13.0	36.8
1402.913	V	58.46	-55.4	9.0	2.3	-48.7	-13.0	35.7
1870.550	H	54.17	-59	11.6	2.6	-50.0	-13.0	37.0
1870.550	V	56.23	-57.4	11.6	2.6	-48.4	-13.0	35.4
2338.188	H	64.64	-47.7	11.6	3	-39.1	-13.0	26.1
2338.188	V	66.43	-45.9	11.6	3	-37.3	-13.0	24.3
2805.825	H	60.55	-51.6	13.2	3.2	-41.6	-13.0	28.6
2805.825	V	62.36	-50	13.2	3.2	-40.0	-13.0	27.0
3273.463	H	64.38	-46.1	13.6	3.5	-36.0	-13.0	23.0
3273.463	V	66.79	-43.7	13.6	3.5	-33.6	-13.0	20.6
3741.100	H	58.12	-50.8	13.8	3.8	-40.8	-13.0	27.8
3741.100	V	60.27	-48.5	13.8	3.8	-38.5	-13.0	25.5
4208.738	H	64.58	-44.4	14.0	4	-34.4	-13.0	21.4
4208.738	V	66.45	-42.5	14.0	4	-32.5	-13.0	19.5
4676.375	H	53.46	-55.1	14.4	4.3	-45.0	-13.0	32.0
4676.375	V	55.79	-52.9	14.4	4.3	-42.8	-13.0	29.8

FCC§2.1055 (d), §95.626- FREQUENCY STABILITY

Applicable Standard

According to FCC §2.1055(a) (1), the frequency stability shall be measured with variation of ambient temperature from –30 °C to +50 °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 §95.626, (b) Each FRS unit must be maintained within a frequency tolerance of 0.00025%.

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	Serial Number	Calibration Date	Calibration Due Date
BACL	High Temperature Test Chamber	BTH-150	30024	2016-12-02	2017-12-01
FLUKE	Multimeter	1587	27870099	2016-12-30	2017-12-29
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Attenuator	Unknown	20dB	Each Time	/

*** Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B “Implementation of traceability policy in accredited laboratories”.

Test Data

Environmental Conditions

Temperature:	28.9 °C
Relative Humidity:	41.5 %
ATM Pressure:	100.1 kPa

The testing was performed by Lorin Bian on 2017-06-05.

Test Mode: Transmitting

FRS, Reference Frequency: 462.63750 MHz				
Temperature	Voltage	Reading	Frequency Error	Limit
°C	Vdc	MHz	ppm	ppm
-30	3.6	462.6369	-1.30	2.5
-20		462.6380	1.08	
-10		462.6375	0.00	
0		462.6372	-0.65	
10		462.6367	-1.73	
20		462.6369	-1.30	
30		462.6370	-1.08	
40		462.6373	-0.43	
50		462.6379	0.86	
60		462.6381	1.30	
25	3.3	462.6371	-0.86	
25	4.0	462.6377	0.43	

FRS, Reference Frequency: 467.6375 MHz				
Temperature	Voltage	Reading	Frequency Error	Limit
°C	Vdc	MHz	ppm	ppm
-30	3.6	467.6373	-0.43	2.5
-20		467.6375	0.00	
-10		467.6368	-1.50	
0		467.6371	-0.86	
10		467.6373	-0.43	
20		467.6375	0.00	
30		467.6377	0.43	
40		467.6380	1.09	
50		467.6378	0.64	
60		467.6376	0.21	
25	3.3	467.6372	-0.64	
25	4.0	467.6380	1.07	

Note: The extreme low voltage was declared by applicant.

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