



**BUREAU  
VERITAS**

Test Report No.: RF170526W001



# FCC TEST REPORT

## (Part 15, Subpart C)



Applicant	LocoRobo Innovations Inc.
Address	2323 Race Street, 814, Philadelphia PA 19103 U.S.A

Manufacturer or Supplier	Pacific Industries (Zhong Shan) Limited.
Addres	Xincun Fty Area, Baishawan Ind Park, Eastern District, Zhong Shan, Guangdong, China
Product	Aura controller
Brand Name	AURA
Model Name	LR723
FCC ID	2ALCR-LR723TX2G4
Date of tests:	May 27, 2017 ~ Jun. 07, 2017

the tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart C (Section 15.249)**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Issued by Harry Li Engineer / Mobile Department	Approved by Sam Tung Manager / Mobile Department
	
Date: Jun. 08, 2017	Date: Jun. 08, 2017

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Test Report No.: RF170526W001

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF170526W001	Original release	Jun. 08, 2017



## 1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§15.203	Antenna Requirement	PASS	No antenna connector is used
§15.207 (a)	Conducted Emission	N/A	EUT is without AC input function
§15.205	Restricted Band of Operation	PASS	Compliant
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant
§15.215(c)	20dB Bandwidth Test	PASS	Compliant

Note: All test items have been performed and recorded as per the above standards.  
Due to the EUT is without AC input function, CE was not tested.

## 2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.70dB
Radiated emissions	9KHz ~ 30MHz	2.90dB
	30MHz ~ 1GHz	4.06dB
	1GHz ~ 18GHz	4.58dB
	18GHz ~ 40GHz	1.94dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Aura controller
<b>MODEL NO.</b>	LR723
<b>FCC ID</b>	2ALCR-LR723TX2G4
<b>NOMINAL VOLTAGE</b>	DC 3.7V from battery
<b>MODULATION TECHNOLOGY</b>	GFSK
<b>OPERATING FREQUENCY</b>	2420-2460MHz
<b>ANTENNA TYPE</b>	Wire Antenna with 0dBi gain
<b>HW VERSION</b>	TX: XC9058-1-C
<b>SW VERSION</b>	TX: Aura v0.2.3
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	USB cable: non-shielded, detachable, 0.66meter

**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT matched the following USB cables:

<b>USB CABLE</b>	
<b>BRAND:</b>	N/A
<b>MODEL:</b>	N/A
<b>SIGNAL LINE:</b>	0.66 METER

3. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.



### 3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on X axis for radiated emission. The EUT was tested under the following mode.

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	BW	
-	√	√	-	√	Powered by battery

Where **RE<1G**: Radiated Emission below 1GHz  
**PLC**: Power Line Conducted Emission

**RE≥1G**: Radiated Emission above 1GHz  
**BW**: 20db bandwidth

Following channel(s) was (were) selected for the test as listed below.

TESTED CHANNEL	TESTED FREQUENCY
Low	2420 MHz
Middle	2440 MHz
High	2460 MHz

Note: The more detailed channel, please refer to the product specifications



### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart C, Section 15.249(2012-10)**

**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

**NOTE:** It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B Verification. The test report has been issued separately.

### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PC	HP	A6608CN	3CR83825X3	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line :Unshielded, Detachable 1.5m



## 4. TEST TYPES AND RESULTS

### 4.1 RADIATED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.





#### 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 01,17	Mar. 31,18
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14, 16	Jul. 13, 17
Loop antenna	Daze	ZN30900A	0708	Nov. 28,16	Nov. 27,17
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 05,17	May 04,18
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Mar. 12,16	Mar. 11,18
Test Software	E3	V 9.160323	N/A	N/A	N/A
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 02,17	Mar. 01,18
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Feb. 10,17	Feb. 09,18
Pre-Amplifier(1-18G)	HP	8449B	3008A00409	Apr. 16,17	Apr. 15,18
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03,17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Aug. 08,16	Aug. 07,17

**NOTE:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test site was performed in 10m Chamber.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 502831.



#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at a 10 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

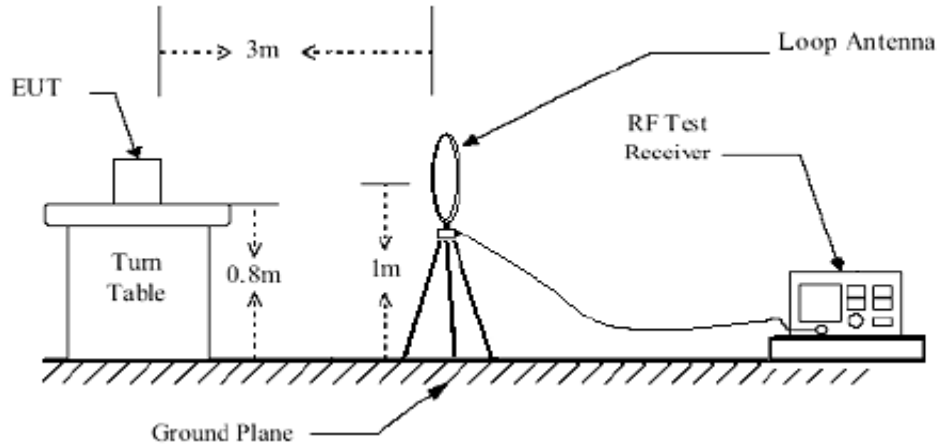
#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

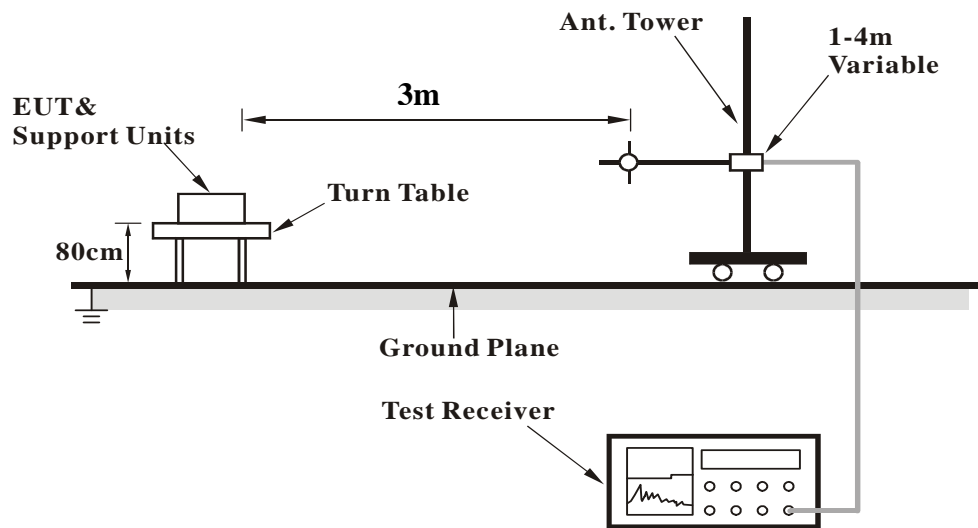


#### 4.1.5 TEST SETUP

##### < Frequency Range below 30MHz >

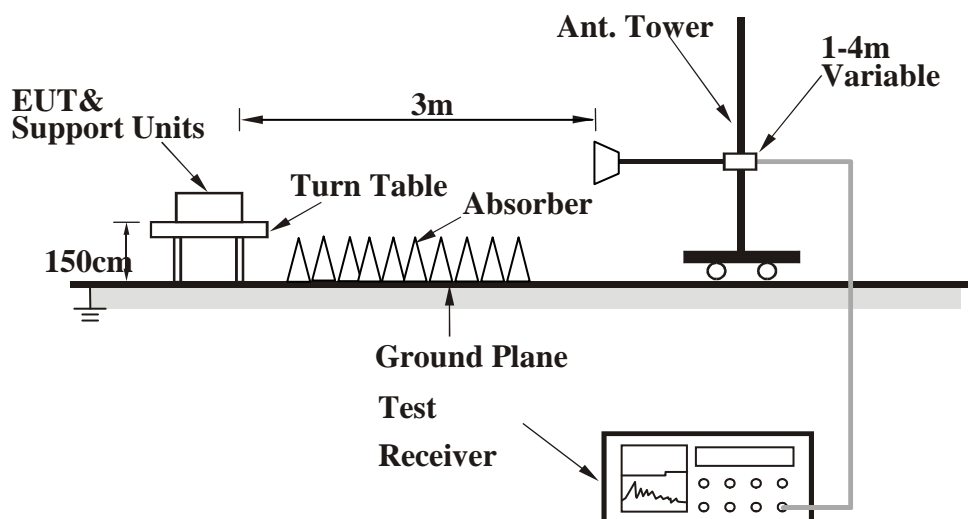


##### < Frequency Range 30MHz~1GHz >





**<Frequency Range above 1GHz>**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

**4.1.6 EUT OPERATING CONDITIONS**

- Turned on the power of all equipment.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



#### 4.1.7 TEST RESULTS

##### BELOW 1GHz WORST-CASE DATA

**9 KHz – 30 KHz data:** the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

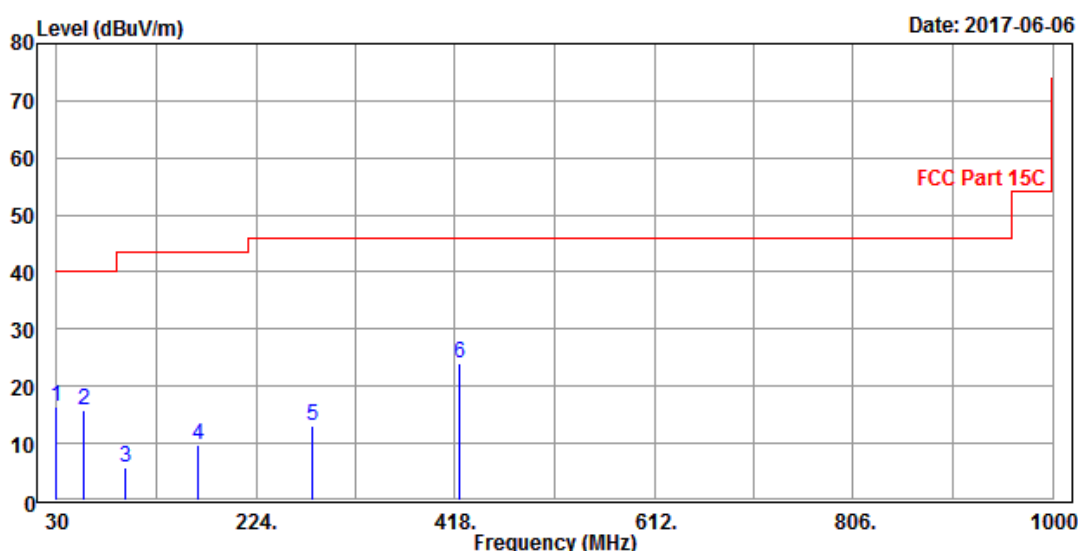
**30 MHz – 1GHz data:**

<b>CHANNEL</b>	TX Middle Channel	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30	16.29	35.97	40	-23.71	17.1	0.78	37.56	100	48	QP
56.19	15.77	45.53	40	-24.23	6.44	1.14	37.34	100	93	QP
95.96	5.66	33.6	43.5	-37.84	7.56	1.51	37.01	100	148	QP
167.74	9.67	34.33	43.5	-33.83	10.08	1.98	36.72	100	174	QP
279.29	13.18	34.33	46	-32.82	12.75	2.61	36.51	100	138	QP
422.85	24.15	40.23	46	-21.85	17.47	3.22	36.77	100	25	QP

##### REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



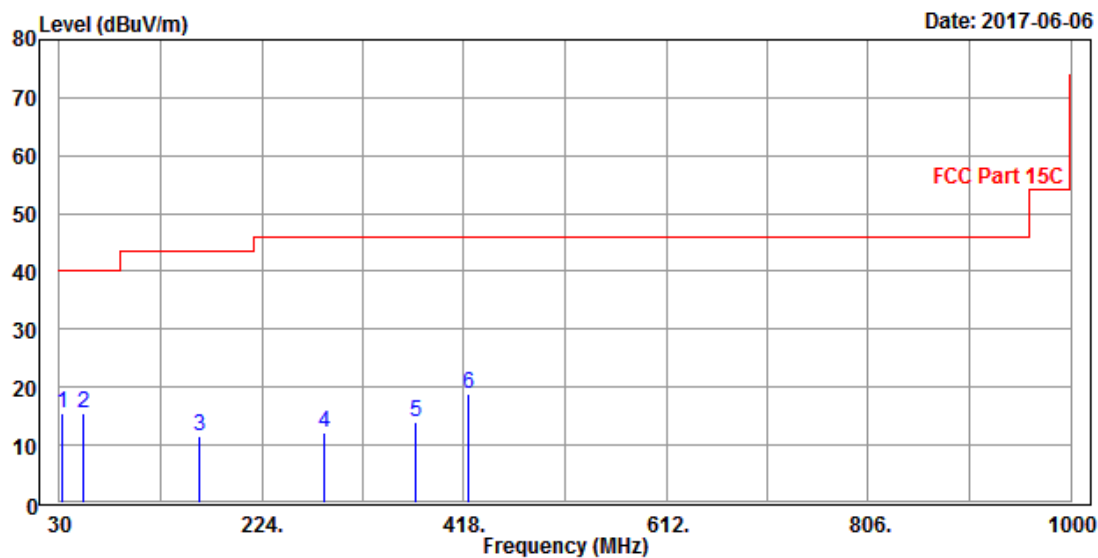


<b>CHANNEL</b>	TX Middle Channel	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
32.91	15.47	37.08	40	-24.53	15.09	0.84	37.54	100	36	QP
53.28	15.61	45.39	40	-24.39	6.47	1.11	37.36	100	140	QP
164.83	11.69	36.33	43.5	-31.81	10.13	1.96	36.73	100	168	QP
284.14	12.15	33.22	46	-33.85	12.81	2.63	36.51	100	210	QP
372.41	14.03	31.62	46	-31.97	16.04	3.03	36.66	100	280	QP
422.85	18.86	34.94	46	-27.14	17.47	3.22	36.77	100	87	QP

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





### ABOVE 1GHz WORST-CASE DATA:

**Note:** For higher frequency, the emission is too low to be detected.

<b>CHANNEL</b>	TX Low Channel	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	43.98	51.85	54	-10.02	32.29	8.15	48.31	140	225	Average
2390	56.94	64.81	74	-17.06	32.29	8.15	48.31	140	225	Peak
2420	87.38	95.16	94	-6.62	32.32	8.21	48.31	140	225	Average
2420	103.87	111.65	114	-10.13	32.32	8.21	48.31	140	225	Peak
2483.5	43.8	51.4	54	-10.2	32.38	8.32	48.3	140	225	Average
2483.5	56.61	64.21	74	-17.39	32.38	8.32	48.3	140	225	Peak
7260	45.61	42.95	54	-8.39	36.11	15.33	48.78	100	50	Average
7260	60.3	57.64	74	-13.7	36.11	15.33	48.78	100	50	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	43.58	51.45	54	-10.42	32.29	8.15	48.31	116	150	Average
2390	55.1	62.97	74	-18.9	32.29	8.15	48.31	116	150	Peak
2420	81.85	89.63	94	-12.15	32.32	8.21	48.31	116	150	Average
2420	98.58	106.36	114	-15.42	32.32	8.21	48.31	116	150	Peak
2483.5	43.78	51.38	54	-10.22	32.38	8.32	48.3	116	150	Average
2483.5	55.99	63.59	74	-18.01	32.38	8.32	48.3	116	150	Peak
7260	47.12	44.46	54	-6.88	36.11	15.33	48.78	100	155	Average
7260	62.72	60.06	74	-11.28	36.11	15.33	48.78	100	155	Peak

### REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2420MHz: Fundamental frequency.



CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	43.58	51.45	54	-10.42	32.29	8.15	48.31	120	230	Average
2390	55.8	63.67	74	-18.2	32.29	8.15	48.31	120	230	Peak
2440	87.62	95.35	94	-6.38	32.34	8.24	48.31	120	230	Average
2440	104.04	111.77	114	-9.96	32.34	8.24	48.31	120	230	Peak
2483.5	43.81	51.41	54	-10.19	32.38	8.32	48.3	120	230	Average
2483.5	56.69	64.29	74	-17.31	32.38	8.32	48.3	120	230	Peak
7320	45.44	42.68	54	-8.56	36.16	15.35	48.75	120	235	Average
7320	59.13	56.37	74	-14.87	36.16	15.35	48.75	120	235	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	43.65	51.52	54	-10.35	32.29	8.15	48.31	100	138	Average
2390	56.15	64.02	74	-17.85	32.29	8.15	48.31	100	138	Peak
2440	81.49	89.22	94	-12.51	32.34	8.24	48.31	100	138	Average
2440	97.98	105.71	114	-16.02	32.34	8.24	48.31	100	138	Peak
2483.5	43.87	51.47	54	-10.13	32.38	8.32	48.3	100	138	Average
2483.5	56.18	63.78	74	-17.82	32.38	8.32	48.3	100	138	Peak
7320	45.91	43.15	54	-8.09	36.16	15.35	48.75	100	138	Average
7320	60.72	57.96	74	-13.28	36.16	15.35	48.75	100	138	Peak

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2440MHz: Fundamental frequency.





CHANNEL	TX High Channel	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	43.69	51.56	54	-10.31	32.29	8.15	48.31	135	245	Average
2390	55.99	63.86	74	-18.01	32.29	8.15	48.31	135	245	Peak
2460	86.54	94.2	94	-7.46	32.36	8.28	48.3	135	245	Average
2460	103.68	111.34	114	-10.32	32.36	8.28	48.3	135	245	Peak
2483.5	43.83	51.43	54	-10.17	32.38	8.32	48.3	135	245	Average
2483.5	61.37	68.97	74	-12.63	32.38	8.32	48.3	135	245	Peak
7380	43.14	40.28	54	-10.86	36.2	15.37	48.71	100	298	Average
7380	58.37	55.51	74	-15.63	36.2	15.37	48.71	100	298	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	43.58	51.45	54	-10.42	32.29	8.15	48.31	100	170	Average
2390	55.94	63.81	74	-18.06	32.29	8.15	48.31	100	170	Peak
2460	81.83	89.49	94	-12.17	32.36	8.28	48.3	100	170	Average
2460	98.52	106.18	114	-15.48	32.36	8.28	48.3	100	170	Peak
2483.5	43.67	51.27	54	-10.33	32.38	8.32	48.3	100	170	Average
2483.5	57.83	65.43	74	-16.17	32.38	8.32	48.3	100	170	Peak
7380	45.2	42.34	54	-8.8	36.2	15.37	48.71	140	220	Average
7380	59.44	56.58	74	-14.56	36.2	15.37	48.71	140	220	Peak

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 2460MHz: Fundamental frequency.



## 4.2 20dB BANDWIDTH MEASUREMENT

### 4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### 4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	Apr. 15, 17	Apr. 14, 18
Power Sensor	Keysight	U2021XA	MY55060018	Apr. 15, 17	Apr. 14, 18
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jul. 27, 16	Jul. 26, 17
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct. 12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep. 05, 16	Sep. 04, 17
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 04, 16	Nov. 03, 17
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04, 16	Nov. 03, 17
Signal Generator	Agilent	N5183A	MY50140980	Nov. 04, 16	Nov. 03, 17
Agile Signal Generator	Agilent	8645A	Agilent	Aug. 08, 16	Aug. 07, 17
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Apr. 15, 17	Apr. 14, 18
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Aug. 08, 16	Aug. 07, 17

**NOTE:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
2. The test site was performed in RF OVEN room.



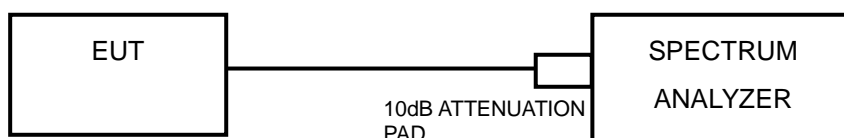
#### 4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.2.5 TEST SETUP



#### 4.2.6 EUT OPERATING CONDITIONS

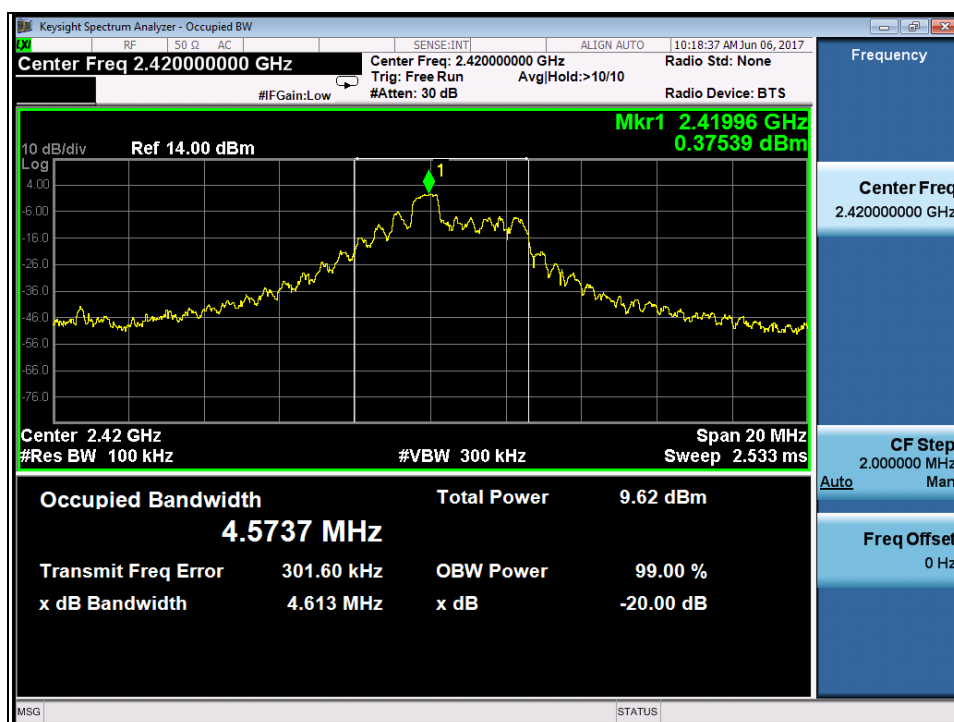
- a) Turned on the power of all equipment.
- b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



## 4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2405	4.613
Middle	2439	5.451
High	2477	5.153

### Test Data: Low channel

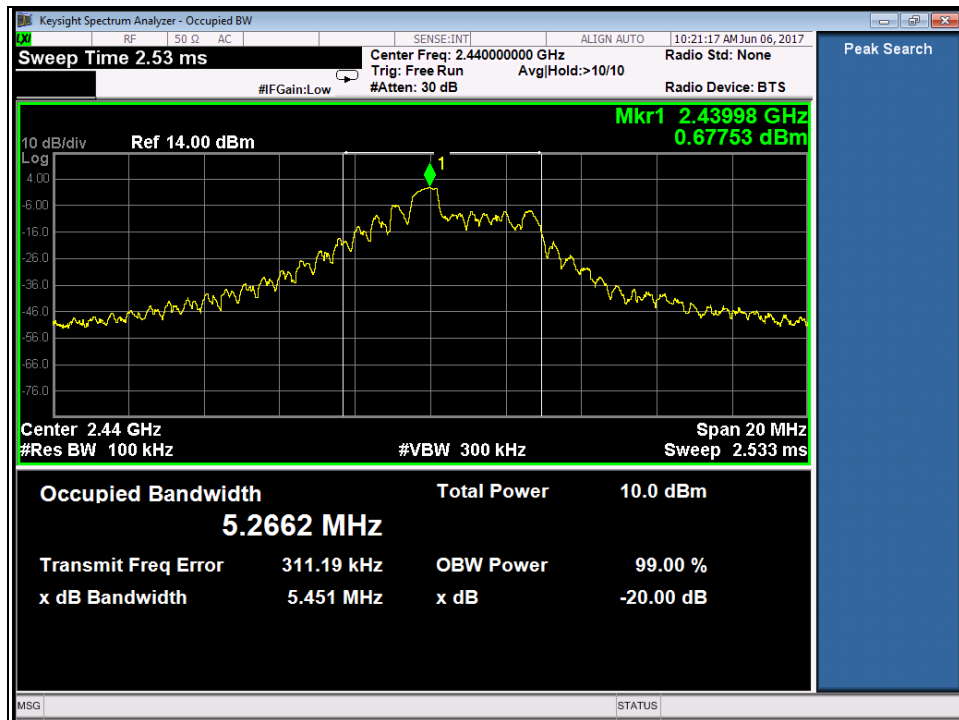




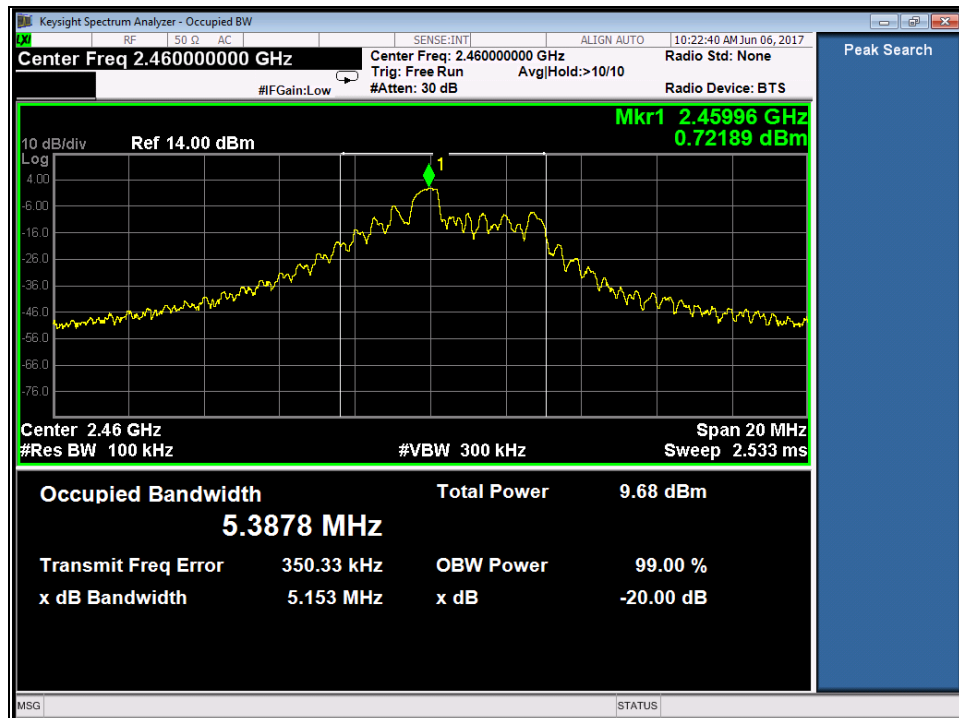
BUREAU  
VERITAS

Test Report No.: RF170526W001

### Test Data: Middle channel



### Test Data: High channel





## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



## **6. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

**---END---**