Test Report of FCC Part 15 C for FCC Certificate On Behalf of

China Industries Ltd T/A Wow! Stuff

FCC ID: YCR-FX-1001

Product Description: RFX-CAR

Model No.: FX-1001

Supplementary Model No.: N/A

Prepared for: China Industries Ltd T/A Wow! Stuff

Creative Industries Centre, Wolverhampton Science Park,

Wolverhampton, WV10 9TG, UK.

Prepared by: Bontek Compliance Testing Laboratory Co., Ltd.

1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road,

Nanshan, Shenzhen, China

Tel: 86-755-86337020 Fax: 86-755-86337028

Report No.: BCT13JR365E

Issue Date: October 25, 2013

Test Date: October 25~31, 2013

Tested by: Reviewed by:

Lion Cai

Approved by:

Kendy Wang

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1. GENERAL INFORMATION

1.1 Client Information

Applicant: China Industries Ltd T/A Wow! Stuff

Address of applicant: Creative Industries Centre, Wolverhampton Science Park,

Wolverhampton, WV10 9TG, UK.

Manufacturer: Tat Kei Wah Sing Electronic (ShenZhen)Co.,Ltd

Address of manufacturer: Tat Kei Industrial Building, No.23 to No.25, Jiang Jun Mao

Mini District, Wu Lian Community, Long Cheng Subdistrict,

Long Gang District, Shen Zhen, China.

General Description of E.U.T

Items	Description
EUT Description:	RFX-CAR
Trade Name:	Wow! Stuff
Model No.:	FX-1001
Supplementary Model No.:	N/A
Frequency Band:	2405MHz ~ 2463.5MHz
Number of Channels:	40
Channel Bandwidth:	1.5MHz
Antenna Type:	Built-in Antenna
Rated Voltage:	4.5 V DC from battery

Remark* The test data gathered are from the production sample provided by the manufacturer.

1.2 Related Submittal(s) / Grant (s)

This submittal(s) is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2003.

The tests were performed in order to determine compliance with Section 15.107 and 15.109 under the FCC Rules Part 15 Subpart B and Section 15.207, 15.209,15.249 under the FCC Rules Part 15 Subpart C.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 - 2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. Radiated testing was performed at an antenna to EUT distance 3 meters.

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1.4 Test Facility

All measurement required was performed at laboratory of Bontek Compliance Testing Laboratory Co., Ltd at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China.

The test facility is recognized, certified, or accredited by the following organizations:

FCC - Registration No.: 338263

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 338263, March, 2011

IC Registration No.: 7631A

The 3m alternate test site of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on January, 2011. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

CNAS - Registration No.: L3923

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. To ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. The acceptance letter from the CNAS is maintained in our files: Registration: L3923, March, 2012.

TUV - Registration No.: 50242657-0001

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. An assessment of the laboratory was conducted according to the "Procedures and Conditions for EMC Test Laboratories" with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-003

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2. SYSTEM TEST CONFIGURATION

The tests documented in this report were performed in accordance with ANSI C63.4-2003 and FCC CFR 47 Part 15 Subpart C.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous transmiting application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode. But the EUT is powed by DC 1.5V of battery, this test is not applicable.

Radiated Emissions The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

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2.4 List of Measuring Equipments

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Last Calculator	Due Calculator
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2013-4-16	2014-4-15
2	BCT-EMC002	EMI Test Receiver	R&S	ESPI	100097	2012-11-1	2013-10-31
3	BCT-EMC003	Amplifier	HP	8447D	1937A02492	2013-4-19	2014-4-18
4	BCT-EMC004	Single Power Conductor Module	R&S	NNBM 8124	242	2013-4-19	2014-4-18
5	BCT-EMC005	Single Power Conductor Module	R&S	NNBM 8124	243	2013-4-19	2014-4-18
6	BCT-EMC006	Power Clamp	SCHWARZBECK	MDS-21	3812	2012-11-5	2013-11-4
7	BCT-EMC007	Positioning Controller	C&C	CC-C-1F	MF7802113	N/A	N/A
8	BCT-EMC008	`Electrostatic Discharge Simulator	TESEQ	NSG437	125	2012-11-2	2013-11-1
9	BCT-EMC009	Fast Transient Burst Generator	SCHAFFNER	MODULA615 0	34572	2013-4-16	2014-4-15
10	BCT-EMC010	Fast Transient Noise Simulator	Noiseken	FNS-105AX	10501	2013-6-26	2014-6-25
11	BCT-EMC011	Color TV Pattern Genenator	PHILIPS	PM5418	TM209947	N/A	N/A
12	BCT-EMC012	Power Frequency Magnetic Field Generator	EVERFINE	EMS61000- 8K	608002	2013-4-16	2014-4-15
14	BCT-EMC014	Capacitive Coupling Clamp	TESEQ	CDN8014	25096	2013-4-16	2014-4-15
15	BCT-EMC015	High Field Biconical Antenna	ELECTRO- METRICS	EM-6913	166	2012-11-28	2013-11-27
16	BCT-EMC016	Log Periodic Antenna	ELECTRO- METRICS	EM-6950	811	2012-11-28	2013-11-27
17	BCT-EMC017	Remote Active Vertical Antenna	ELECTRO- METRICS	EM-6892	304	2012-11-28	2013-11-27
18	BCT-EMC018	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2013-5-19	2014-5-18
19	BCT-EMC019	Horn Antenna	SCHWARZBECK	BBHA9120A	0499	2012-11-28	2013-11-27
20	BCT-EMC020	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	8128247	2012-11-1	2013-10-31
21	BCT-EMC021	Triple-Loop Antenna	EVERFINE	LLA-2	711002	2012-11-15	2013-11-14
22	BCT-EMC022	Electric bridge	Jhai	JK2812C	803024	N/A	N/A
23	BCT-EMC026	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2013-4-16	2014-4-15
24	BCT-EMC027	CDN	FRANKONIA	CDN M2+M3	A3027019	2013-4-16	2014-4-15

25	BCT-EMC029	6DB Attenuator	FRANKONIA	N/A	1001698	2013-4-16	2014-4-15
26	BCT-EMC030	EM Injection clamp	FCC	F-203I-23mm	091536	2013-4-16	2014-4-15
27	BCT-EMC031	9kHz-2.4GHz signal generator 2024	MARCONI	10S/6625-99- 457-8730	112260/042	2013-4-16	2014-4-15
28	BCT-EMC032	10dB attenuator	ELECTRO- METRICS	EM-7600	836	2013-4-16	2014-4-15
29	BCT-EMC033	ISN	TESEQ	ISN-T800	30301	2012-11-15	2013-11-14
30	BCT-EMC034	10KV surge generator	SANKI	SKS-0510M	048110003E 321	2012-11-01	2013-10-31
31	BCT-EMC035	HRMONICS&FLICK RE ANALYSER	VOLTECH	PM6000	200006700433	2012-11-20	2013-11-19
32	BCT-EMC036	Spectrum Analyzer	R&S	FSP	100397	2012-11-1	2013-10-31
33	BCT-EMC037	Broadband preamplifier	SCH WARZBECK	BBV9718	9718-182	2013-4-19	2014-4-18

3. SUMMARY OF TEST RESULTS

EUT Fundamental Frequency	FCC Rules	Description of Test	Result
	15.207	Disturbance Voltage at The Mains Terminals	N/A , without AC main
2.405~2.463.5	15.249	Band Edges Measurement	Pass
GHz	15.249	Spurious Emission	Pass
	15.203	Antenna Requirement	Pass

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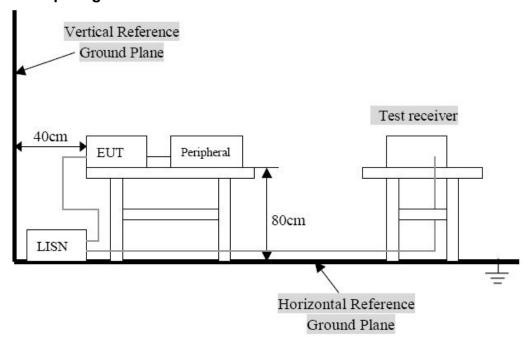
4. TEST OF CONDUCTED EMISSION

4.1 Applicable Standard

Section 15.207: For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Fraguency Pango (MHz)	Limits (dBuV)		
Frequency Range (MHz)	Quasi-Peak	Average	
0.150~0.500	66∼56	56∼46	
0.500~5.000	56	46	
5.000~30.00	60	50	

4.2 Test Setup Diagram



Remark: 1. The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC 15.207 limits.

2. The EUT was charged on the base,and the base was connected to a 120 VAC/ 60Hz power source.

Notes: The EUT is powered by DC 4.5V from battery without AC mains, this test is unapplicable.

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5. BAND EDGES MEASUREMENT

5.1 Limit of Band Edges Measurement

- 1. In the above emission table, the tighter limit applies at the band edges.
- 2. As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dΒμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

5.2 Radiate EUT Setup

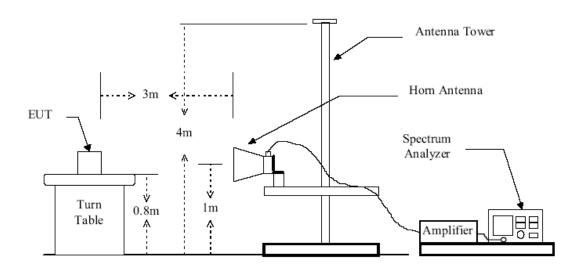


Figure 2: Frequencies measured above 1 GHz configuration

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5.3 Test Procedure

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

- 1). Configure the EUT according to ANSI C63.4:2003.
- 2). The EUT was placed on the top of the turntable 0.8 meter above ground.
- 3). The receiving antenna was placed 3 meters far away from the turntable.
- 4). The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 5). The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization. For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

5.4 Test Result

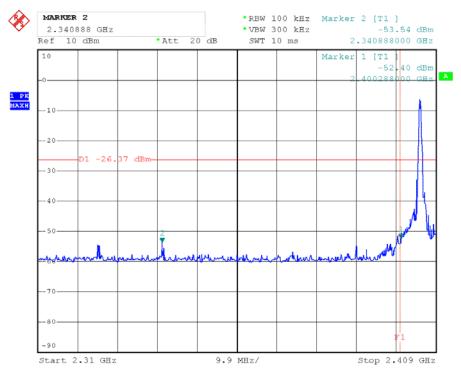
Temperature (°C) : 22~23	EUT: RFX-CAR
Humidity (%RH): 50~54	M/N: FX-1001
Barometric Pressure (mbar): 950~1000	Operation Condition: Continuous transmitting

Radio test result

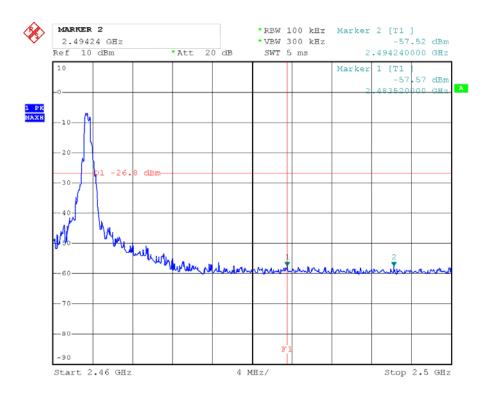
Frequency (MHz)	Antenna Polarization	Emission Read Value (dBµV/m)	Limits (dBμV/m)
2389.45	Н	31.58	54
2483.62	Н	32.33	54

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBµV/m)	Limits (dBμV/m)
2389.45	V	32.19	54
2483.62	V	32.95	54

Conducted test result CH Low



CH High



6. SPURIOUS EMISSIONS

6.1 Limit of Spurious Emissions

- 1. In the section 15.249(a): Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:
- 2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Fundamental Frequency (MHz)	Field Strength of Fundamental Field Strength (mV/m)	Field Strength of Harmonics (µmV/m)
902-928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

3. In the above emission table, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

6.2 EUT Setup

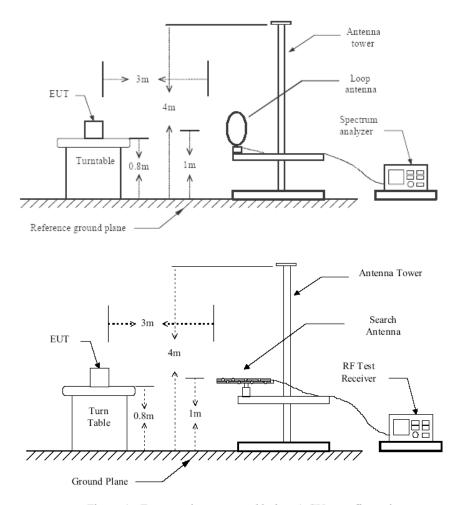


Figure 1: Frequencies measured below 1 GHz configuration

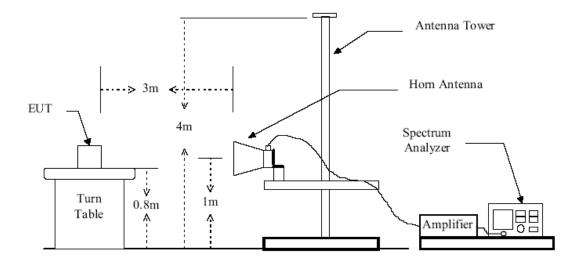


Figure 2: Frequencies measured above 1 GHz configuration

6.3 Test Procedure

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

- 1). Configure the EUT according to ANSI C63.4:2003.
- 2). The EUT was placed on the top of the turntable 0.8 meter above ground.
- 3). The receiving antenna was placed 3 meters far away from the turntable.
- 4). The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 5). The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization. For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

6.4 Spurious Emissions Test Result

Temperature (°C) : 22~23	EUT: RFX-CAR
Humidity (%RH): 50~54	M/N: SK-078AG
Barometric Pressure (mbar): 950~1000	Operation Condition: Continuous transmitting

Note: In this testing, the EUT was respectively tested in three different orientations. That is:

- 1. EUT was lie vertically, and then its Antenna oriented upward
- 2. EUT was lie vertically, and then its Antenna oriented downward
- 3. EUT was lie flatwise, and then its Antenna oriented to the receiving antenna

The worst test data see following pages

When the EUT was lie flatwise, and its Antenna oriented to the receiving antenna, the worst test data was got as following table.

WORST-CASE RADIATED EMISSION BELOW 30 MHz

Normal operating Mode:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dB μ V/M)	(dB)	PK/QP
0.46	22.34	8.25	1.01	29.58	67	-37.42	QP
16.59	21.54	7.57	1.2	27.91	49.5	-21.59	QP
21.45	22.38	8.64	1.05	29.97	49.5	-19.53	QP
25.68	22.53	7.22	1.69	28.06	49.5	-21.44	QP

The worst Spurious Emission Data Below 1GHz Channel Low:

EUT: **RFX-CAR** M/N: FX-1001

Operating Condition: Continuous transmitting

Test Site: 3m CHAMBER

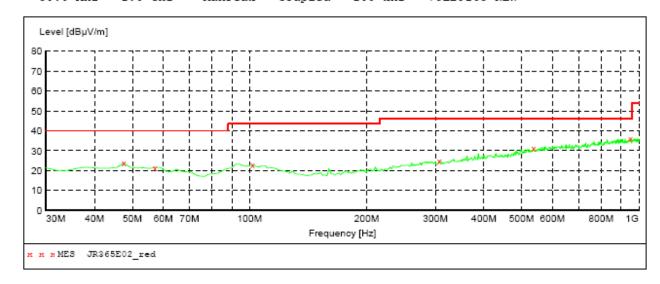
Operator: Chen

Test Specification: DC 4.5V From battery Comment: Polarization: Horizontal Tem:25°C Hum:50%

Field Strength

Detector Meas. IF Transducer

Frequency Frequency Time Bandw. 30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



MEASUREMENT RESULT: "JR365E02 red"

10/28/2013 1 Frequency MHz		Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000 57.160000 101.780000 307.420000 536.340000	23.70 21.60 22.80 24.90 31.10	15.8 15.1 17.3 18.9 24.7	40.0 40.0 43.5 46.0 46.0	16.3 18.4 20.7 21.1 14.9	Q́₽ Q₽	100.0 100.0 100.0 100.0 100.0	0.00 0.00 0.00 0.00	HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL
951.500000	36.00	29.6	46.0	10.0	QΡ	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data Below 1GHz Channel Low:

EUT: **RFX-CAR** M/N: FX-1001

Operating Condition: Continuous transmitting

Test Site: 3m CHAMBER

Operator: Chen

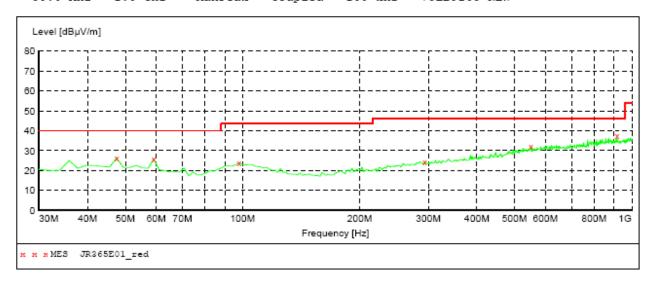
Test Specification: DC 4.5V From battery Comment: Polarization: Vertical

Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Field Strength

Start Stop Detector Meas. IF Transducer Frequency Frequency Bandw. Time

30.0 MHz 1.0 GHz Coupled 100 kHz VULB9163 NEW MaxPeak



MEASUREMENT RESULT: "JR365E01 red"

10/28/2013 14 Frequency MHz		Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	26.30	15.8	40.0	13.7	QP	100.0	0.00	VERTICAL
59.100000	25.80	14.6	40.0	14.2	QP	100.0	0.00	VERTICAL
97.900000	23.90	17.4	43.5	19.6	QP	100.0	0.00	VERTICAL
293.840000	24.50	18.6	46.0	21.5	QP	100.0	0.00	VERTICAL
549.920000	32.00	25.0	46.0	14.0	QΡ	100.0	0.00	VERTICAL
916.580000	37.40	29.3	46.0	8.6	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data Below 1GHz Channel Middle:

EUT: **RFX-CAR** M/N: FX-1001

Operating Condition: Continuous transmitting

Test Site: 3m CHAMBER

Operator: Chen

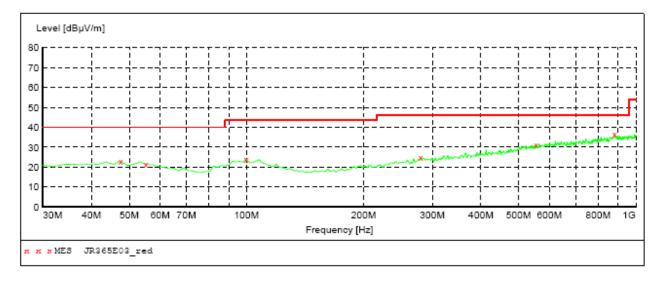
Test Specification: DC 4.5V From battery Comment: Polarization: Horizontal Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Field Strength
Start Stop Detector Meas. IF

Transducer

Frequency Frequency

Time Bandw. Coupled 100 kHz 30.0 MHz 1.0 GHz MaxPeak VULB9163 NEW



MEASUREMENT RESULT: "JR365E03 red"

10/28/2013 19 Frequency MHz		Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	23.00	15.8	40.0	17.0	QP	100.0	0.00	HORIZONTAL
55.220000	21.30	15.6	40.0	18.7	QP	100.0	0.00	HORIZONTAL
99.840000	23.90	17.5	43.5	19.6	QP	100.0	0.00	HORIZONTAL
280.260000	24.80	18.2	46.0	21.2	QP	100.0	0.00	HORIZONTAL
553.800000	31.10	25.1	46.0	14.9	QP	100.0	0.00	HORIZONTAL
881.660000	36.50	29.0	46.0	9.5	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data Below 1GHz Channel Middle:

EUT: **RFX-CAR** M/N: FX-1001

Operating Condition: Continuous transmitting

Test Site: 3m CHAMBER

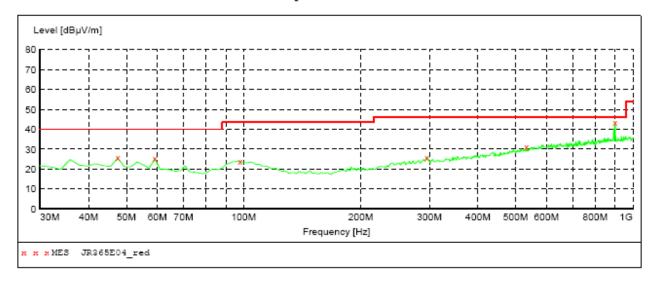
Operator: Chen

Test Specification: DC 4.5V From battery Comment: Polarization: Vertical Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Field Strength
Start Stop Detector Meas. IF
Frequency Frequency Time Ban
30.0 MHz 1.0 GHz MaxPeak Coupled 100 Transducer

Bandw.

Coupled 100 kHz VULB9163 NEW



MEASUREMENT RESULT: "JR365E04 red"

10/28/2013 14 Frequency MHz		Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	25.60	15.8	40.0	14.4	QP	100.0	0.00	VERTICAL
59.100000	25.20	14.6	40.0	14.8	QP	100.0	0.00	VERTICAL
97.900000	23.80	17.4	43.5	19.7	QP	100.0	0.00	VERTICAL
295.780000	25.80	18.6	46.0	20.2	QP	100.0	0.00	VERTICAL
532.460000	31.00	24.6	46.0	15.0	QP	100.0	0.00	VERTICAL
899.120000	43.60	29.2	46.0	2.4	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data Below 1GHz Channel High:

EUT: **RFX-CAR** M/N: FX-1001

Operating Condition: Continuous transmitting

Test Site: 3m CHAMBER

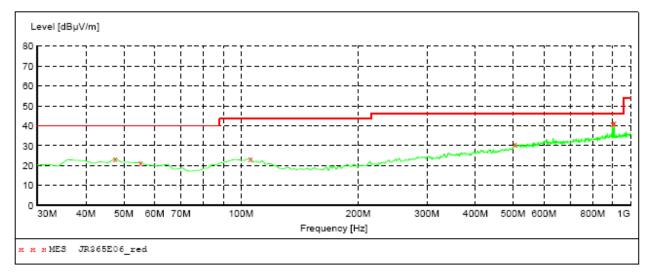
Operator: Chen

Test Specification: DC 4.5V From battery Comment: Polarization: Horizontal Tem:25°C Hum:50%

Field Strength

Detector Meas. IF Time Bandw. Transducer

SWEEP TABLE: "test (30M-1G)"
Short Description: Fig.
Start Stop Detector I
Frequency Frequency 30.0 MHz 1.0 GHz MaxPeak MaxPeak Coupled 100 kHz VULB9163 NEW



MEASUREMENT RESULT: "JR365E06 red"

10/28/2013 14 Frequency MHz		Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	23.60	15.8	40.0	16.4	QP	100.0	0.00	HORIZONTAL
55.220000	21.50	15.6	40.0	18.5	QP	100.0	0.00	HORIZONTAL
105.660000	23.60	16.9	43.5	19.9	QP	100.0	0.00	HORIZONTAL
505.300000	30.90	24.0	46.0	15.1	QP	100.0	0.00	HORIZONTAL
899.120000	40.90	29.2	46.0	5.1	QΡ	100.0	0.00	HORIZONTAL
908.820000	41.60	29.3	46.0	4.4	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data Below 1GHz Channel High:

EUT: **RFX-CAR** M/N: FX-1001

Operating Condition: Continuous transmitting

Test Site: 3m CHAMBER

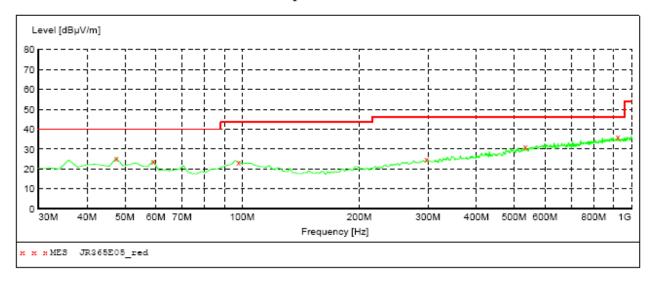
Operator: Chen

Test Specification: DC 4.5V From battery Comment: Polarization: Vertical Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Field Strength
Start Stop Detector Meas. IF

Detector Meas. IF Transducer Bandw. Time

Frequency Frequency 30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



MEASUREMENT RESULT: "JR365E05 red"

10/28/2013 1	4:42							
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	25.50	15.8	40.0	14.5	QP	100.0	0.00	VERTICAL
59.100000	24.10	14.6	40.0	15.9	QP	100.0	0.00	VERTICAL
97.900000	23.50	17.4	43.5	20.0	QP	100.0	0.00	VERTICAL
297.720000	24.90	18.7	46.0	21.1	QP	100.0	0.00	VERTICAL
534.400000	31.10	24.6	46.0	14.9	QP	100.0	0.00	VERTICAL
924.340000	36.30	29.4	46.0	9.7	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data above 1GHz Channel Low

	Channel Low (2405MHz)											
Maximum Frequency		Pola	rity and Lev	rel		Limit	Margin	Mark				
(MHz)	Polarity	Height (m)	Reading dB _µ V	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	(P/Q/A)				
2405	Н	1	85.36	-7.15	78.21	114	-35.79	Р				
2405	П	I	72.38	-7.15	65.23	94	-28.77	Α				
2405	V	1	87.54	-7.15	80.39	114	-33.61	Р				
2405	V	1	73.55	-7.15	66.4	94	-27.6	Α				
4810	Н	1	42.54	1.07	43.61	74	-30.39	Р				
4010	П	I	31.63	1.07	32.7	54	-21.3	Α				
4810	V	1	43.67	1.07	44.74	74	-29.26	Р				
4010	V	1	31.85	1.07	32.92	54	-21.08	Α				
7215	Н	_	42.63	7.38	50.01	74	-23.99	Р				
7215	П	1	32.33	7.38	39.71	54	-14.29	Α				
7215	V	1	43.89	7.38	51.27	74	-22.73	Р				
7215	V	1	32.74	7.38	40.12	54	-13.88	Α				
0620	Н	1						Р				
9620	П	1						Α				
9620	V	1						Р				
9020	V	1						Α				
12021.67	Н	4						Р				
12021.07	П	1						Α				
10001.67	\/	4						Р				
12021.67	V	1						Α				
25380.37												

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
 - 4. The test limit distance is 3m limit

The worst Spurious Emission Data above 1GHz Channel Middle

	Channel Low (2435MHz)											
Maximum Frequency		Pola	rity and Lev	vel .		Limit	Margin	Mark				
(MHz)	Polarity	Height (m)	Reading dB _µ V	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	(P/Q/A)				
2435	Н	1	83.56	-6.37	77.19	114	-36.81	Р				
2433	П	ı	71.68	-6.37	65.31	94	-28.69	Α				
2435	V	1	85.74	-6.37	79.37	114	-34.63	Р				
2433	V	'	72.65	-6.37	66.28	94	-27.72	Α				
4870	Н	1	41.38	1.07	42.45	74	-31.55	Р				
4670	п	ı	32.5	1.07	33.57	54	-20.43	Α				
4870	V	4	42.59	1.07	43.66	74	-30.34	Р				
4670	V	1	32.08	1.07	33.15	54	-20.85	Α				
7305	Н	,	41.59	7.49	49.08	74	-24.92	Р				
7305	П	1	31.38	7.49	38.87	54	-15.13	Α				
7305	V	4	42.59	7.49	50.08	74	-23.92	Р				
7305	V	1	32.38	7.49	39.87	54	-14.13	Α				
0740	Н	4						Р				
9740	н	1						Α				
0740	V	4						Р				
9740	V	1						Α				
40404.07	- 11	4						Р				
12191.67	Н	1						Α				
10101.67	V	1						Р				
12191.67	V	1						Α				
25380.37												

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
 - 4. The test limit distance is 3m limit

The worst Spurious Emission Data above 1GHz Channel High

	Channel Low (2463.5MHz)											
Maximum Frequency		Pola	rity and Lev	rel		Limit	Margin	Mark				
(MHz)	Polarity	Height (m)	Reading dB _µ V	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	(P/Q/A)				
2463.5	Н	1	84.36	-6.05	78.31	114	-35.69	Р				
2463.5	П	I	72.05	-6.05	66	94	-28	Α				
2463.5	V	1	86.75	-6.05	80.7	114	-33.3	Р				
2403.5	V		73.32	-6.05	67.27	94	-26.73	Α				
4927	Н	1	41.58	1.07	42.65	74	-31.35	Р				
4927	П	ı	31.36	1.07	32.43	54	-21.57	Α				
4927	V	1	42.35	1.07	43.42	74	-30.58	Р				
4927	V	I	33.67	1.07	34.74	54	-19.26	Α				
7390.5	Н	4	42.54	7.61	50.15	74	-23.85	Р				
7390.5	П	1	31.63	7.61	39.24	54	-14.76	Α				
7390.5	V	1	43.36	7.61	50.97	74	-23.03	Р				
7390.5	V	ı	33.74	7.61	41.35	54	-12.65	Α				
9854	Н	1						Р				
9004	П	I						Α				
9854	V	1						Р				
9004	V	ı						Α				
12361.67	Н	1						Р				
12301.07	П	ı						Α				
12361.67	V	1						Р				
12301.07	V	I						Α				
25380.37												

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

2. Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.

4. The test limit distance is 3m limit

7. ANTENNA REQUIREMENT

7.1 Standard Applicable

Section 15.203:

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

7.2 Antenna Connected Construction

The antenna connector is designed with permanent attachment and no consideration of replacement.