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District, Shenzhen, Guangdong, China 518057

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FCC REPORT

Application No.: SZEM1401000414RF(SGS GZ No.:GZEM1401000388RF)

Applicant: Guangzhou Wong Da Hardware & Knitwear co., Ltd.

Manufacturer: Guangzhou Wong Da Hardware & Knitwear co., Ltd.

Factory: Guangzhou Wong Da Hardware & Knitwear co., Ltd.

Product Name: D-Mometer Repeater

Model No.(EUT): D-Mometer Repeater

FCC ID: S5SDR18608

Standards: 47 CFR Part 15, Subpart C (2013)

Date of Receipt: 2014-03-20

Date of Test: 2014-03-28 to 2014-04-08

Date of Issue: 2014-04-09

Test Result: PASS *

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Test Summary

Test Item	Test Requirement	Test method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C Section	ANCI C62 40/2000)	DACC	
Antenna Requirement	15.203	ANSI C63.10(2009)	PASS	
AC Power Line Conducted	47 CFR Part 15, Subpart C Section	ANSI C62 10(2000)	DACC	
Emission	15.207	ANSI C63.10(2009)	PASS	
Field Strength of the	47 CFR Part 15, Subpart C Section	ANCI Ce2 40(2000)	PASS	
Fundamental Signal	15.231 (b)	ANSI C63.10(2009)	PASS	
Spurious Emissions	47 CFR Part 15, Subpart C Section	ANCI Ce2 40/2000)	DACC	
Spurious Emissions	15.231 (b)/15.209	ANSI C63.10(2009)	PASS	
20dB Bandwidth	47 CFR Part 15, Subpart C Section	ANCI Cea 10/2000)	DACC	
ZUUD Danuwidth	15.231 (c)	ANSI C63.10(2009)	PASS	
Durall Time	47 CFR Part 15, Subpart C Section	ANCI Ce2 40/2000)	DACC	
Dwell Time	15.231 (a)	ANSI C63.10(2009)	PASS	

NOTE: The receiver portion of this transmitting device has be tested and passed by Verification procedure.



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4 General Information

4.1 Client Information

Applicant:	Guangzhou Wong Da Hardware & Knitwear co., Ltd.
Address of Applicant:	SHA ZHUANG STREET ZENGCHENG CITY GUANGDONG
	PROVINCE CHINA
Manufacturer:	Guangzhou Wong Da Hardware & Knitwear co., Ltd.
Address of Manufacturer:	SHA ZHUANG STREET ZENGCHENG CITY GUANGDONG
	PROVINCE CHINA
Factory:	Guangzhou Wong Da Hardware & Knitwear co., Ltd.
Address of Factory:	SHA ZHUANG STREET ZENGCHENG CITY GUANGDONG
	PROVINCE CHINA

4.2 General Description of EUT

Product Name:	D-Mometer Repeater
Model No.:	D-Mometer Repeater
Sample Type:	Fixed production
Operation Frequency:	433MHz
Channel Numbers:	1
Modulation Type:	GFSK
Antenna Type:	Integral
Antenna Gain:	2.15dBi
AC Adapter:	MODEL: YSU15050
	INPUT: AC 100-240V~
	50/60Hz
	OUTPUT: 5V=3A
Test Voltage:	230V





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4.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1015 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
232T CDMA	WONGDA	D-Mometer 232T

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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4.6 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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.

VCCI

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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 No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



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4.10 Equipment List

	RE in Chamber				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2014-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2014-05-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0027	2014-05-29
5	Coaxial cable	SGS	N/A	SEL0189	2014-05-29
6	Coaxial cable	SGS	N/A	SEL0121	2014-05-29
7	Coaxial cable	SGS	N/A	SEL0178	2014-05-29
8	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24
9	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24
10	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2014-05-16
11	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24
12	Barometer	ChangChun	DYM3	SEL0088	2014-05-24
13	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
14	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-24
15	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24
16	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2014-05-16
17	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2014-06-04



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	Conducted Emission	n			
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2014-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2014-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2014-05-16
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	SEL0162	2014-11-10
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	SEL0163	2014-11-10
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	SEL0164	2014-11-10
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2014-05-16
8	Coaxial Cable	SGS	N/A	SEL0025	2014-05-29
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2014-05-24



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	1 ago. 3 01 24							
	RF connected test							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)			
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24			
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2014-10-24			
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2014-10-24			
4	Coaxial cable	SGS	N/A	SEL0178	2014-05-29			
5	Coaxial cable	SGS	N/A	SEL0179	2014-05-29			
6	Barometer	ChangChun	DYM3	SEL0088	2014-05-24			
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2014-05-16			
8	Band filter	amideon	82346	SEL0094	2014-05-16			
9	POWER METER	R&S	NRVS	SEL0144	2014-10-24			
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2014-05-16			
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2014-10-24			

Note: The calibration interval is one year, all the instruments are valid.



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5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

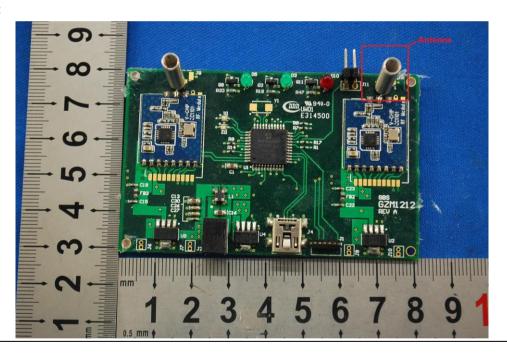
15.203 Requirement:

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, 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.15dBi.

Repeater:





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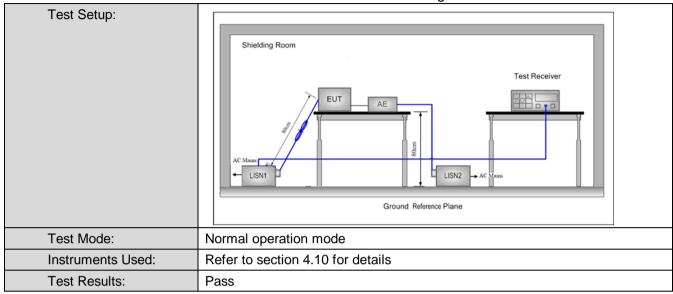
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	150kHz to 30MHz				
Limit:	[[] [] [] [] [] [] [] [] [] [Frequency range (MHz) Limit (dBuV)			
	Frequency range (MHZ)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.		_	
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shield			ded	
	room.				
	2) The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the results.	s a 50Ω/50μH + 5Ω I units of the EUT d to the ground referunit being measure multiple power cables not exceeded.	inear were rence ed. A s to a		
	3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,				
	4) The test was performed with a vertical ground reference plane. The reather EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units the EUT and associated equipment was at least 0.8 m from the LISN 2.				
	5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.				



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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

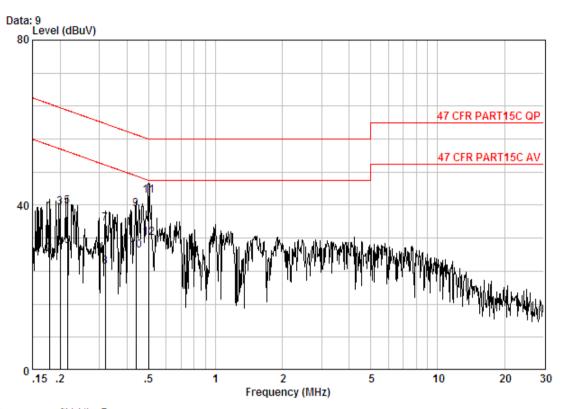
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line:



Site : Shielding Room

Condition : 47 CFR PART15C QP GZ LISN EMC0118 2014 LINE

Job NO. : 0414RF

mode: :

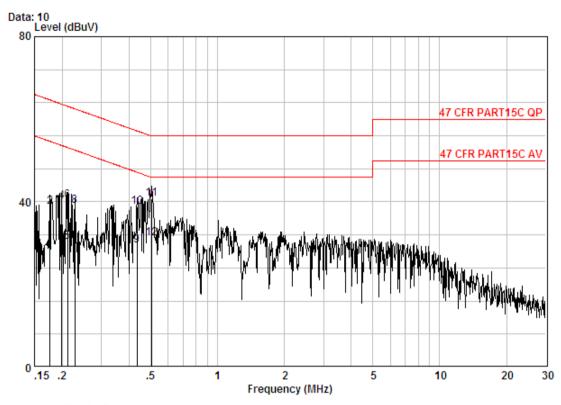
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17866	0.10	9.60	28.62	38.32	64.55	-26.23	QP
2	0.17866	0.10	9.60	18.37	28.07	54.55	-26.48	Average
3	0.19969	0.12	9.60	29.79	39.51	63.62	-24.11	QP
4	0.19969	0.12	9.60	19.61	29.33	53.62	-24.29	Average
5	0.21506	0.12	9.60	30.04	39.76	63.01	-23.25	QP
6	0.21506	0.12	9.60	20.28	30.00	53.01	-23.01	Average
7	0.31830	0.09	9.70	25.70	35.50	59.75	-24.26	QP
8	0.31830	0.09	9.70	15.31	25.10	49.75	-24.65	Average
9	0.43742	0.06	9.64	29.30	39.01	57.11	-18.10	QP
10	0.43742	0.06	9.64	19.39	29.09	47.11	-18.02	Average
11 @	0.49937	0.07	9.70	32.60	42.37	56.01	-13.64	QP
12	0.49937	0.07	9.70	22.30	32.07	46.01	-13.94	Average



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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART15C QP GZ LISN EMC0118 2014 NEUTRAL

Job NO. : 0414RI

mode: :

	Freq	Cable Loss	LISN Factor			Limit Line	Over Limit	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17584	0.10	9.66	18.24	28.00	54.68	-26.68	Average
2	0.17584	0.10	9.66	28.94	38.70	64.68	-25.98	QP
3	0.19863	0.12	9.66	20.29	30.07	53.67	-23.60	Average
4	0.19863	0.12	9.66	30.31	40.09	63.67	-23.57	QP
5	0.21167	0.12	9.66	20.59	30.37	53.14	-22.77	Average
6	0.21167	0.12	9.66	30.48	40.26	63.14	-22.88	QP
7	0.22797	0.11	9.66	19.22	29.00	52.52	-23.53	Average
8	0.22797	0.11	9.66	29.20	38.97	62.52	-23.55	QP
9	0.43511	0.06	9.66	19.73	29.45	47.15	-17.70	Average
10	0.43511	0.06	9.66	29.15	38.87	57.15	-18.28	QP
11	0.50737	0.07	9.66	31.11	40.84	56.00	-15.16	QP
12	0.50737	0.07	9.66	21.36	31.09	46.00	-14.91	Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT

2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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5.3 Spurious Emissions

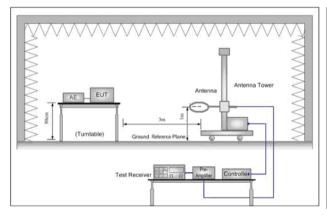
Test Requirement:	47 CFR Part 15C Section 15.231(b) and 15.209								
Test Method:	ANSI C63.10: 2009								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-pea	k			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak				
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-pea	k			
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-pea	k			
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above 1G112	Peak	1MHz	10Hz	Average				
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/ m)	Remai	Measure distanc				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	30	0			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30)			
	1.705MHz-30MHz	30	-	-	30)			
	30MHz-88MHz	100	40.0	Quasi-pe	ak 3	3			
	88MHz-216MHz	150	43.5	Quasi-pe	ak 3	3			
	216MHz-960MHz	200	46.0	Quasi-pe	ak 3	3			
	960MHz-1GHz	500	54.0	Quasi-pe	ak 3	3			
	Above 1GHz	500	54.0	Averag	e 3	3			
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								
Limit:	Frequency	Limit (dBuV/		Rer	mark				
(Field strength of the	, ,	72.8			je Value				
fundamental signal)	433MHz	92.8	4	`	Value				



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Test Procedure:	 a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Setup:	



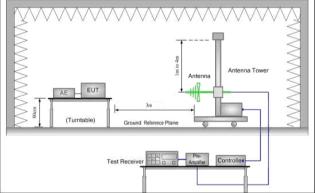
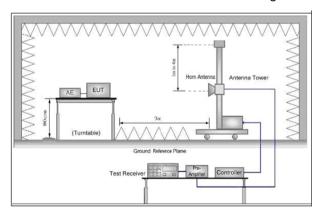


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz





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Figure 3. Above 1 GHz

Test mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

5.3.1.1 Field Strength Of The Fundamental Signal

Peak value:								
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Average Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.00	2.34	11.97	27.33	82.46	69.44	72.84	-3.40	Horizontal
433.00	2.34	11.97	27.33	82.53	69.51	72.84	-3.33	Vertical

Note:

As shown in this section, the peak field strength of any emission shall not exceed the maximum permitted average limits, so only the peak measurements were shown in this section.



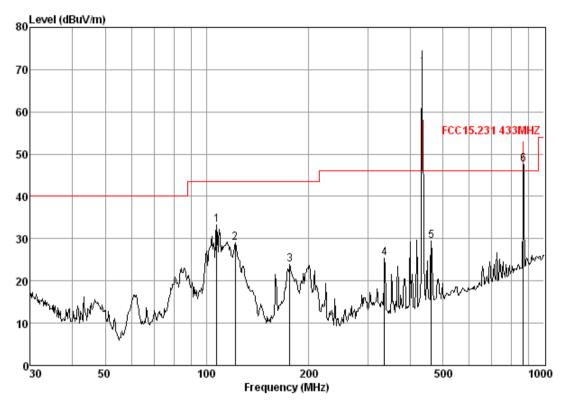
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5.3.1.2 Spurious Emissions

Below 1GHz

QP value: Horizontal



Condition: FCC15.231 433MHZ 3m 3142C HORIZONTAL

Job No. : 0414RF Mode : TX

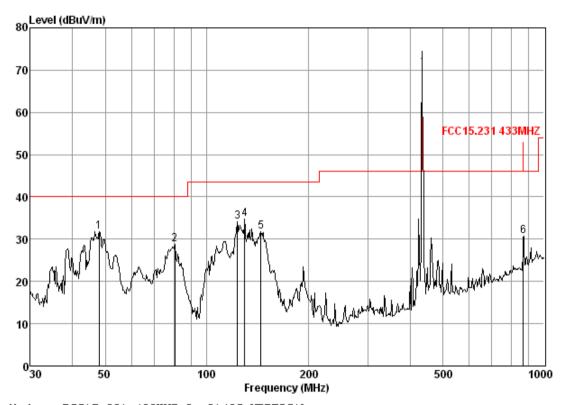
Juc	Freq			Preamp Factor			Limit Line	Over Limit	Remark	
-	MHz	dB	dB/m			dBuV/m		dB		
1 2 3	107.13 121.55 176.27		7.17 7.77 7.73	27.06	47.14		43.50 43.50 43.50	-14.39		
4 5 6	336.04 462.35 866.00	2. 02 2. 46	10.41 13.33	26. 68 27. 52 26. 96	39.55 41.18	25. 30 29. 45	46.00 46.00	-20.70 -16.55		



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Vertical



Condition: FCC15.231 433MHZ 3m 3142C VERTICAL

Job No. : 0414RF Mode : TX

	. 1A	0114		п	ъ 1			_		
	Freq			Preamp Factor				Over Limit	Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	47.99	0.76		27.30		31.78		-8.22		
	80.36	1.10	5.28	27.23	49.64	28.79	40.00	-11.21		
	123.27	1.26	7.85	27.05	52.15	34.21	43.50	-9.29		
	129.47	1.27	8.17	27.01	52.26	34.69	43.50	-8.81		
	144.84	1.31	8.96	26.93	48.53	31.87	43.50	-11.63		
				26.96						



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Above 1GHz

Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1296.469	2.38	27.73	39.27	69.67	60.51	74	-13.49	Vertical
1728.561	2.66	29.83	39.45	49.10	42.14	74	-31.86	Vertical
2597.564	3.09	32.84	40.00	45.92	41.85	74	-32.15	Vertical
3738.129	3.95	33.49	40.84	47.62	44.22	74	-29.78	Vertical
4821.757	4.70	34.68	41.64	48.03	45.77	74	-28.23	Vertical
6094.137	5.15	35.82	40.84	47.66	47.79	74	-26.21	Vertical
1296.469	2.38	27.73	39.27	62.15	52.99	74	-21.01	Horizontal
1814.218	2.72	30.44	39.49	47.25	40.92	74	-33.08	Horizontal
2162.567	2.90	32.08	39.68	48.61	43.91	74	-30.09	Horizontal
2597.564	3.09	32.84	40.00	48.81	44.74	74	-29.26	Horizontal
3026.195	3.33	33.39	40.33	51.39	47.78	74	-26.22	Horizontal
4724.558	4.63	34.84	41.57	48.16	46.06	74	-27.94	Horizontal

Remark:

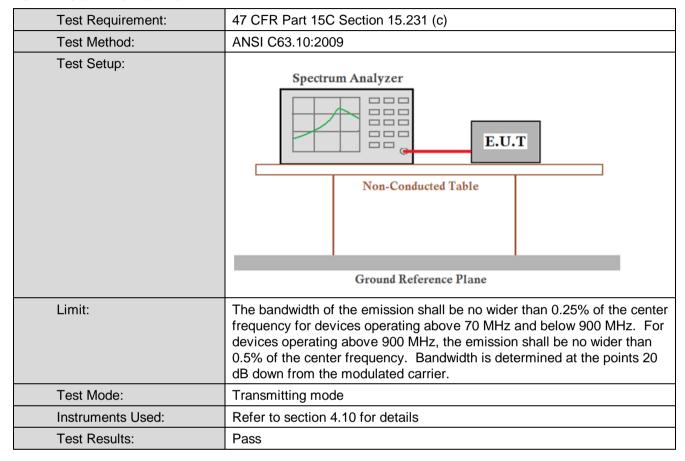
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits 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. So, only the peak measurements were shown in the report.



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5.4 20dB Bandwidth



Measurement Data

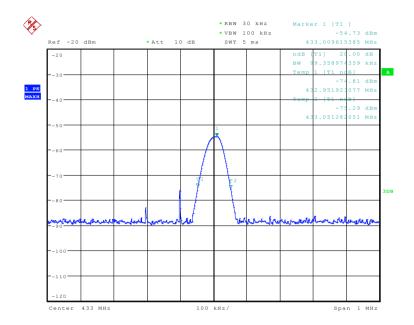
20dB bandwidth (MHz)	Limit (MHz)	Results
0.099	1.0825	Pass



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Test plot as follows:

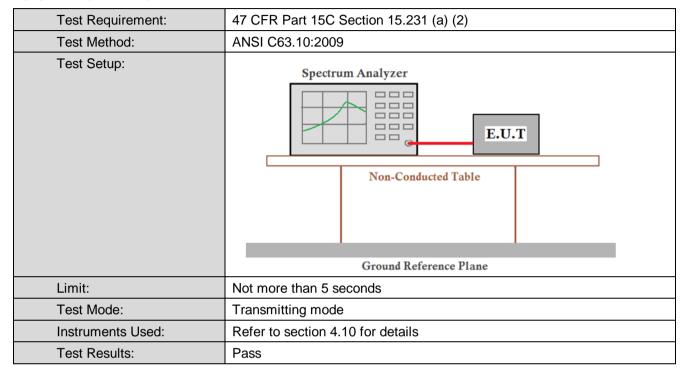




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5.5 Dwell Time



Measurement Data

Test item	Limit (MHz)	Results
Transmitting time	≤10S	Pass

Note:

There only one automatically transmitting mode for this EUT of every 20 minutes.



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Test plot as follows:

