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Report No.: SZEM130100049601
Page: 1 of 19

1

FCC REPORT

Application No.: SZEM1301000496RF
Applicant: ETHER ELECTRONICS CO., LTD.
Manufacturer: ETHER ELECTRONICS CO., LTD.
Factory: ETHER ELECTRONICS CO., LTD.
Product Name: VibraThotics VibraPod
Model No.(EUT): RC-12001-1
FCC ID: UN9FTM01-T
Standards: 47 CFR Part 15, Subpart C (2011)
Date of Receipt: 2013-01-29
Date of Test: 2013-02-20 to 2013-02-25
Date of Issue: 2013-02-27

Test Result:	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

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.

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 2 of 19

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10(2009)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.231 (b)	ANSI C63.10(2009)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.231 (b)/15.209	ANSI C63.10(2009)	PASS
20dB Bandwidth	47 CFR Part 15, Subpart C Section 15.231 (c)	ANSI C63.10(2009)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section 15.231 (a)	ANSI C63.10(2009)	PASS



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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 3 of 19

3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY	2
3 CONTENTS	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF EUT	4
4.3 TEST ENVIRONMENT AND MODE	5
4.4 DESCRIPTION OF SUPPORT UNITS	5
4.5 TEST LOCATION	5
4.6 TEST FACILITY	6
4.7 DEVIATION FROM STANDARDS	6
4.8 ABNORMALITIES FROM STANDARD CONDITIONS	6
4.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	6
4.10 EQUIPMENT LIST	7
5 TEST RESULTS AND MEASUREMENT DATA.....	9
5.1 ANTENNA REQUIREMENT.....	9
5.2 SPURIOUS EMISSIONS	10
5.2.1 <i>Spurious Emissions</i>	10
5.3 20dB BANDWIDTH	16
5.4 DWELL TIME.....	18-19

4 General Information

4.1 Client Information

Applicant:	ETHER ELECTRONICS CO., LTD.
Address of Applicant:	4F, 5Building, DongFangMing Industrial Park, No.83, DaBao Road, BaoAn District, ShenZhen
Manufacturer:	ETHER ELECTRONICS CO., LTD.
Address of Manufacturer:	4F, 5Building, DongFangMing Industrial Park, No.83, DaBao Road, BaoAn District, ShenZhen
Factory:	ETHER ELECTRONICS CO., LTD.
Address of Factory:	4F, 5Building, DongFangMing Industrial Park, No.83, DaBao Road, BaoAn District, ShenZhen City, China

4.2 General Description of EUT

Product Name:	VibraThotics VibraPod
Mode No.:	RC-12001-1
Trade Mark:	VibraThotics
Sample Type:	Portable production
Operation Frequency:	315MHz
Channel Numbers:	1
Modulation Type:	ASK
Antenna Type:	Integral
Antenna Gain:	1.1dBi
Battery:	DC3.0V (1*3.0"CR2032H" button battery)
Test Voltage:	DC 3.0V

SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 5 of 19

4.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	47 % 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 independent unit.

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.

SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 6 of 19

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)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 7 of 19

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	2013-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2013-05-17
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0027	2013-05-29
5	Coaxial cable	SGS	N/A	SEL0189	2013-05-29
6	Coaxial cable	SGS	N/A	SEL0121	2013-05-29
7	Coaxial cable	SGS	N/A	SEL0178	2013-05-29
8	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2013-10-24
9	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2013-10-24
10	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2013-05-17
11	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2013-10-24
12	Barometer	ChangChun	DYM3	SEL0088	2013-05-24
13	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2013-10-24
14	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2013-10-24
15	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2013-10-24
16	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2013-05-17
17	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2013-06-04

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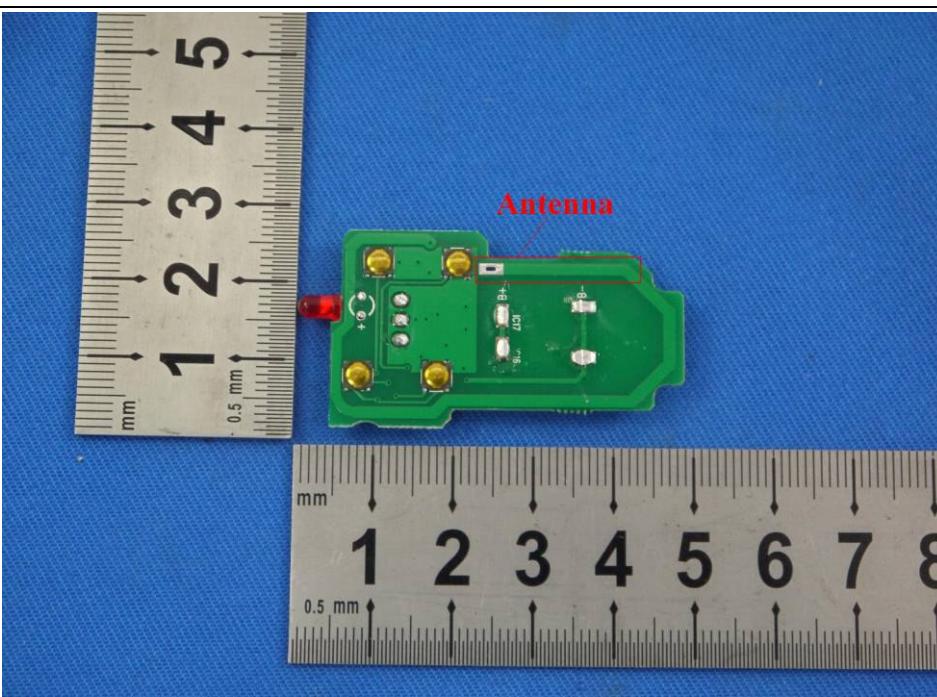
Report No.: SZEM130100049601
Page: 8 of 19

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	2013-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2013-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2013-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2013-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2013-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2013-05-24
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2013-05-17
8	Band filter	amideon	82346	SEL0094	2013-05-17
9	POWER METER	R & S	NRVS	SEL0144	2013-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2013-05-17
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2013-10-24

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

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 1.1dBi.
	

SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 10 of 19

5.2 Spurious Emissions

5.2.1 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-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	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: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	315MHz	75.62		Average Value	
		95.62		Peak Value	

SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 11 of 19

Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. 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:	

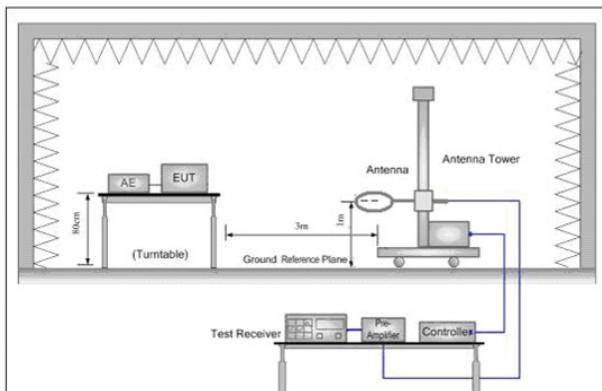


Figure 1. Below 30MHz

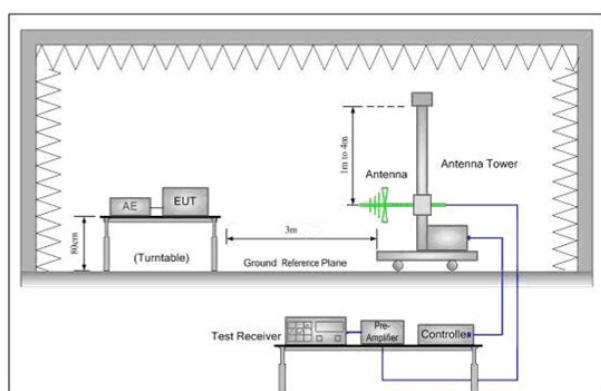


Figure 2. 30MHz to 1GHz

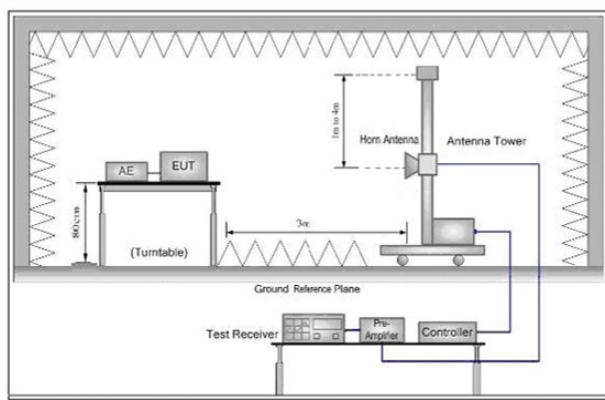


Figure 3. Above 1 GHz

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

Measurement Data

5.2.1.1 Field Strength Of The Fundamental Signal

Peak value:								
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Peak Level (dBuV/m)	Average Limit Line (dBuV/m)	Over Limit (dB)	polarization
315	1.95	9.85	26.52	84.02	69.30	75.62	-6.32	Horizontal
315	1.95	9.85	26.52	85.54	70.82	75.62	-4.80	Vertical

Remark:

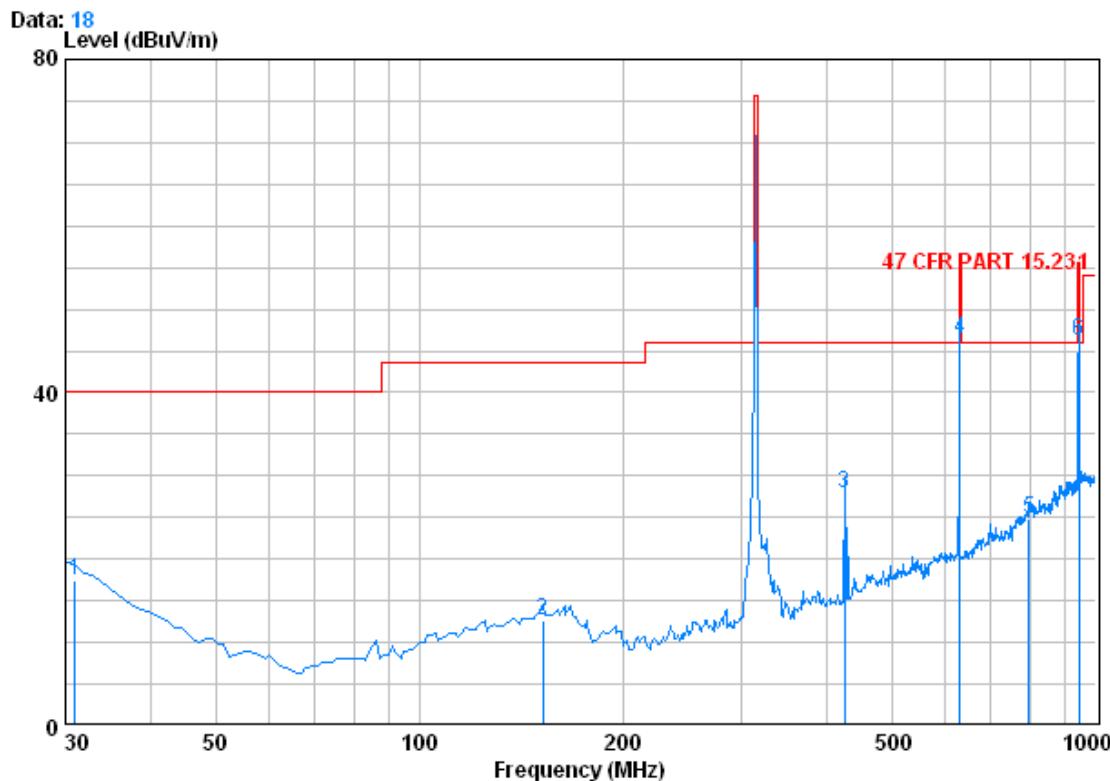
As shown in this section, for field strength of the fundamental signal measurements, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above. So, only the peak measurements were shown in the report.



5.2.1.2 Spurious Emissions

Below 1GHz

Peak value:
Vertical:



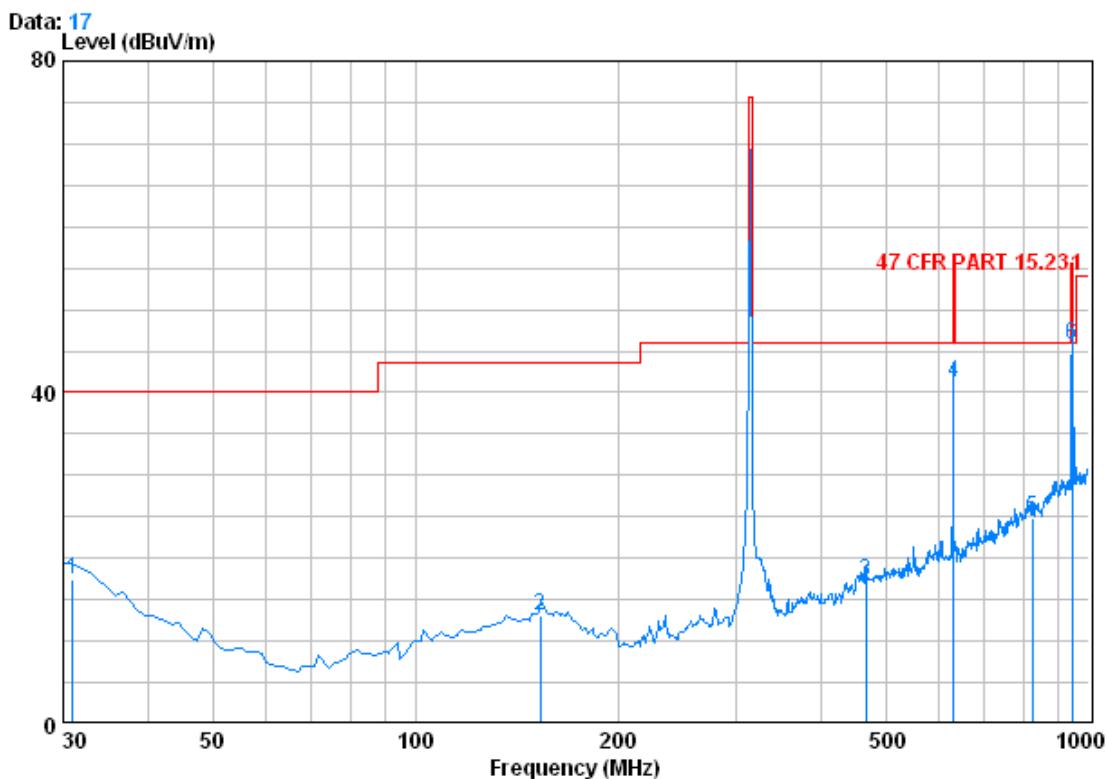
Condition : 47 CFR PART 15.231 3m 3142C NEW VERTICAL
Job No. : 0496RF
test mode : TX mode

	Freq	Cable		Antenna		Preamp		Read		Limit Line	Over Limit
		Loss	Factor	Factor	Factor	Level	Level	Level	Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	30.970	0.60	17.15	27.35	26.96	17.36	40.00	-22.64			
2	152.220	1.32	9.43	26.90	28.69	12.55	43.50	-30.95			
3	424.790	2.31	11.60	27.29	41.30	27.92	46.00	-18.08			
4 0	629.460	2.76	15.60	27.50	55.58	46.44	55.62	-9.18			
5	797.270	3.19	18.63	27.30	30.38	24.90	46.00	-21.10			
6 0	943.740	3.64	20.87	26.58	48.23	46.17	55.62	-9.45			

SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 14 of 19

Horizontal:



Condition : 47 CFR PART 15.231 3m 3142C NEW HORIZONTAL

Job No. : 0496RF
test mode : TX mode

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.970	0.60	17.15	27.35	26.95	17.34	40.00	-22.66
2	153.190	1.32	9.47	26.89	29.08	12.98	43.50	-30.52
3	466.500	2.48	13.27	27.54	28.99	17.20	46.00	-28.80
4	629.460	2.76	15.60	27.50	50.23	41.10	55.62	-14.52
5	823.460	3.31	19.13	27.16	29.50	24.78	46.00	-21.22
6 0	943.740	3.64	20.87	26.58	47.86	45.79	55.62	-9.83

Remark:

As shown in this section, for field strength of radiated emission below 1GHz measurements, the field strength limits are based on QP limits. However, the peak field strength of any emission shall not exceed the maximum permitted QP limits specified above. So, only the peak measurements were shown in the report.

SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 15 of 19

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
1258.757	3.68	27.67	39.25	57.35	49.45	74	-24.55	Vertical
1573.525	3.96	28.72	39.38	71.28	64.58	74	-9.42	Vertical
1889.494	4.24	30.94	39.52	53.51	49.17	74	-24.83	Vertical
2203.810	4.46	32.17	39.71	56.43	53.35	74	-20.65	Vertical
2521.007	4.68	32.72	39.95	55.72	53.17	74	-20.83	Vertical
2832.351	4.92	33.17	40.17	53.78	51.70	74	-22.30	Vertical
1258.757	3.68	27.67	39.25	49.68	41.78	74	-32.22	Horizontal
1573.525	3.96	28.72	39.38	60.04	53.34	74	-20.66	Horizontal
1889.494	4.24	30.94	39.52	48.56	44.22	74	-29.78	Horizontal
2203.810	4.46	32.17	39.71	51.50	48.42	74	-25.58	Horizontal
2438.510	4.61	32.61	39.89	51.27	48.60	74	-25.40	Horizontal
2832.351	4.92	33.17	40.17	50.14	48.06	74	-25.94	Horizontal

Average 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
1258.757	3.68	27.67	39.25	43.61	35.71	54	-18.29	Vertical
1575.255	3.97	28.72	39.38	55.97	49.28	54	-4.72	Vertical
1889.494	4.24	30.94	39.52	41.19	36.85	54	-17.15	Vertical
2203.810	4.46	32.17	39.71	41.66	38.58	54	-15.42	Vertical
2521.007	4.68	32.72	39.95	44.09	41.54	54	-12.46	Vertical
2832.351	4.92	33.17	40.17	39.15	37.07	54	-16.93	Vertical
1258.757	3.68	27.67	39.25	34.16	26.26	54	-27.74	Horizontal
1573.525	3.96	28.72	39.38	43.78	37.08	54	-16.92	Horizontal
1889.494	4.24	30.94	39.52	33.77	29.43	54	-24.57	Horizontal
2203.810	4.46	32.17	39.71	37.12	34.04	54	-19.96	Horizontal
2438.510	4.61	32.61	39.89	37.90	35.23	54	-18.77	Horizontal
2832.351	4.92	33.17	40.17	39.60	37.52	54	-16.48	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

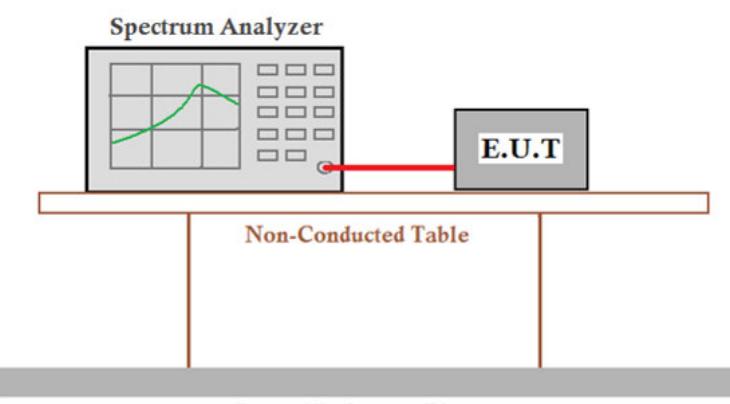
- 2) The disturbance and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM130100049601
Page: 16 of 19

5.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.231 (c)
Test Method:	ANSI C63.10:2009
Test Setup:	
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

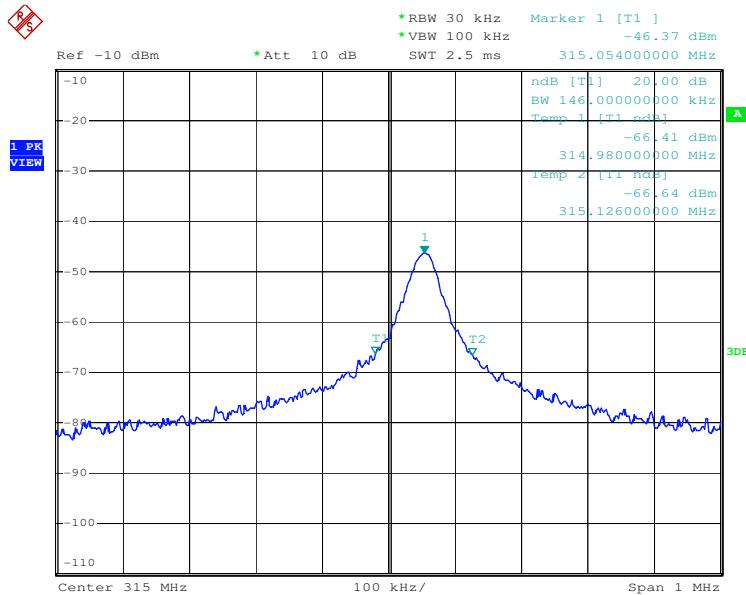
20dB bandwidth (MHz)	Limit (MHz)	Results
0.146	0.7875	PASS

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Report No.: SZEM130100049601
Page: 17 of 19

Test plot as follows:

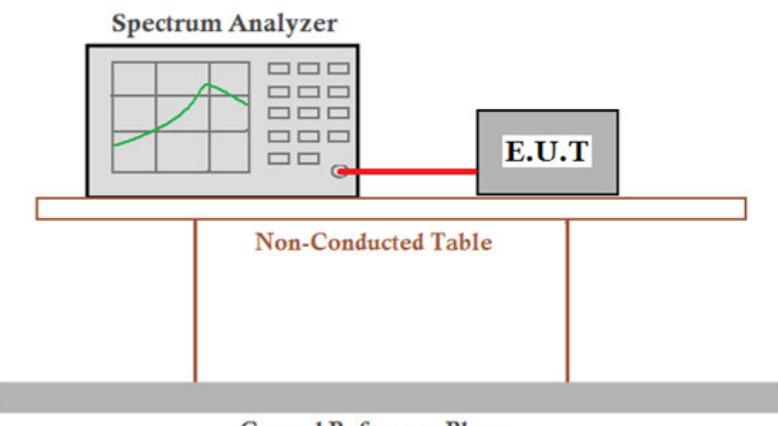


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Report No.: SZEM130100049601
Page: 18 of 19

5.4 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.231 (a) (1)
Test Method:	ANSI C63.10:2009
Test Setup:	
Limit:	Not more than 5 seconds
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

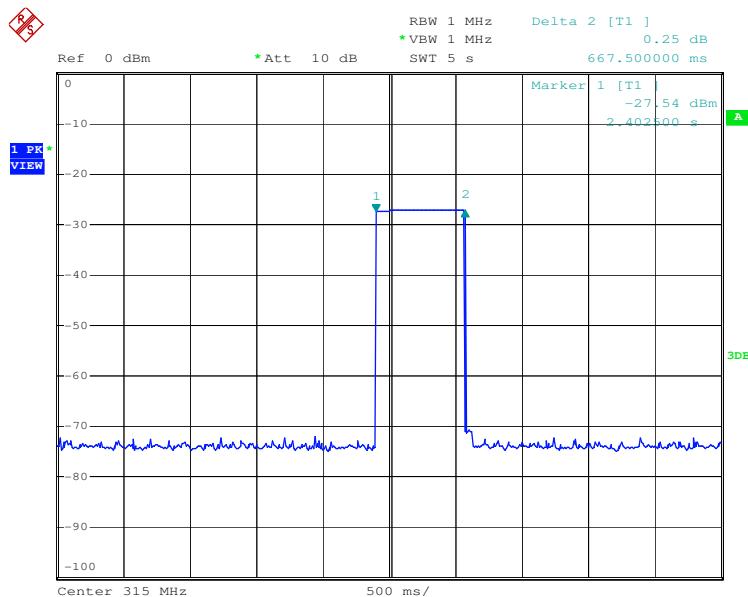
Measurement Data

Test item	Limit (MHz)	Results
Transmitting time	≤5S	0.6675S

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Report No.: SZEM130100049601
Page: 19 of 19

Test plot as follows:



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