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Shenzhen Branch**

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Report No.: SZEM151200751101

Page : 1 of 29

FCC REPORT

Application No. : SZEM1512007511CR
Applicant: Guangdong Cheerson Hobby Technology Co., Ltd.
Manufacturer: Guangdong Cheerson Hobby Technology Co., Ltd.
Factory: Guangdong Cheerson Hobby Technology Co., Ltd.
Product Name: UFO
Model No.(EUT): CX-32
Add Model No.: CX-32C, CX-32W, CX-32W-TX, CX-32S, CX-33, CX-33C, CX-33W, CX-33W-TX, CX-33S, CX-35, CX-35C, CX-35W, CX-35W-TX, CX-35S
FCC ID: 2AD6LGC03242024
Standards: 47 CFR Part 15, Subpart C (2014)
Date of Receipt: 2015-12-04
Date of Test: 2015-12-08 to 2015-12-10
Date of Issue: 2015-12-17

Test Result:	PASS *
---------------------	---------------

. * 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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Report No.: SZEM151200751101

Page : 2 of 29

2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-12-17		Original

Authorized for issue by:				
Tested By				2015-12-10
		(Bill Chen) /Project Engineer		Date
Prepared By				2015-12-17
		(Iris Zhou) /Clerk		Date
Checked By				2015-12-17
		(Eric Fu) /Reviewer		Date

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3 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 15.249 (a)	ANSI C63.10 (2009)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2009)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2009)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2009)	PASS

Remark:

Model No.: CX-32, CX-32C, CX-32W, CX-32W-TX, CX-32S, CX-33, CX-33C, CX-33W, CX-33W-TX, CX-33S, CX-35, CX-35C, CX-35W, CX-35W-TX, CX-35S

Only the model CX-32 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name.



4 Contents

	Page
1 COVER PAGE.....	1
2 VERSION	2
3 TEST SUMMARY	3
4 CONTENTS	4
5 GENERAL INFORMATION.....	5
5.1 CLIENT INFORMATION.....	5
5.2 GENERAL DESCRIPTION OF EUT	5
5.3 TEST ENVIRONMENT AND MODE	7
5.4 DESCRIPTION OF SUPPORT UNITS.....	7
5.5 TEST LOCATION	7
5.6 TEST FACILITY	8
5.7 DEVIATION FROM STANDARDS.....	8
5.8 ABNORMALITIES FROM STANDARD CONDITIONS	8
5.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER	8
5.10 EQUIPMENT LIST	9
6 TEST RESULTS AND MEASUREMENT DATA.....	11
6.1 ANTENNA REQUIREMENT	11
6.2 RADIATED EMISSION.....	12
6.3 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	19
6.4 20DB BANDWIDTH.....	25
7 PHOTOGRAPHS.....	28
7.1 RADIATED EMISSION TEST SETUP.....	28
7.2 EUT CONSTRUCTIONAL DETAILS	29
8.....	29



5 General Information

5.1 Client Information

Applicant:	Guangdong Cheerson Hobby Technology Co., Ltd.
Address of Applicant:	FENGXIN NO.2 ROAD&LAIMEI ROAD FENGXIN INDUSTRIAL ZONE CHENGHAI SHANTOU GUANGDONG PROVINCE CHINA
Manufacturer:	Guangdong Cheerson Hobby Technology Co., Ltd.
Address of Manufacturer:	FENGXIN NO.2 ROAD&LAIMEI ROAD FENGXIN INDUSTRIAL ZONE CHENGHAI SHANTOU GUANGDONG PROVINCE CHINA
Factory:	Guangdong Cheerson Hobby Technology Co., Ltd.
Address of Factory:	FENGXIN NO.2 ROAD&LAIMEI ROAD FENGXIN INDUSTRIAL ZONE CHENGHAI SHANTOU GUANGDONG PROVINCE CHINA

5.2 General Description of EUT

Name:	UFO
Model No.:	CX-32
Frequency Range:	2410 MHz ~ 2470MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Hopping Channel Type:	Adaptive Frequency Hopping systems
Modulation Type:	GFSK
Number of Channels:	61 (declared by the client)
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0dBi
The highest operation frequency (internal source except RF part)	216MHz
Power Supply:	DC 6.0V (1.5V*4 Size "AA" battery) for Tx
The Limit Temperature:	0°C to +35°C (for indoor use only)



Operation Frequency each of channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2410MHz	22	2431MHz	43	2452MHz
2	2411MHz	23	2432MHz	44	2453MHz
3	2412MHz	24	2433MHz	45	2454MHz
4	2413MHz	25	2434MHz	46	2455MHz
5	2414MHz	26	2435MHz	47	2456MHz
6	2415MHz	27	2436MHz	48	2457MHz
7	2416MHz	28	2437MHz	49	2458MHz
8	2417MHz	29	2438MHz	50	2459MHz
9	2418MHz	30	2439MHz	51	2460MHz
10	2419MHz	31	2440MHz	52	2461MHz
11	2420MHz	32	2441MHz	53	2462MHz
12	2421MHz	33	2442MHz	54	2463MHz
13	2422MHz	34	2443MHz	55	2464MHz
14	2423MHz	35	2444MHz	56	2465MHz
15	2424MHz	36	2445MHz	57	2466MHz
16	2425MHz	37	2446MHz	58	2467MHz
17	2426MHz	38	2447MHz	59	2468MHz
18	2427MHz	39	2448MHz	60	2469MHz
19	2428MHz	40	2449MHz	61	2470MHz
20	2429MHz	41	2450MHz		
21	2430MHz	42	2451MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	2410MHz
The Middle channel(CH36)	2445MHz
The Highest channel(CH61)	2470MHz

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5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	1020 mbar

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 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.



5.6 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.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, 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 chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



5.10 Equipment List

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-05-13	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16	2016-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-11-15	2017-11-15
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-17	2016-10-17
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-11-24	2017-11-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-13	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-17	2016-10-17
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-13	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-13	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-13	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2015-05-13	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-13	2016-05-13
18	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-05-13	2016-05-13

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Shenzhen Branch

Report No.: SZEM151200751101

Page : 10 of 29

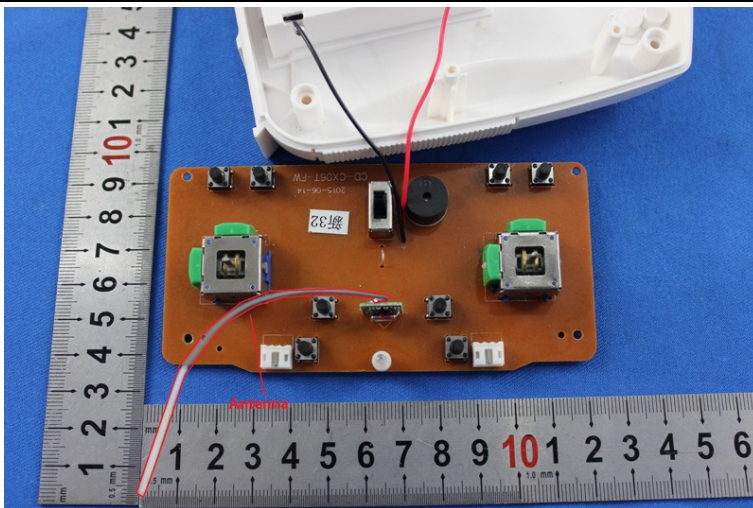
RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24	2016-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-17	2016-10-17
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-13	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-13	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-04-25	2016-04-25
8	POWER METER	R & S	NRVS	SEL0144	2015-10-09	2016-10-09
9	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-04-25	2016-04-25

RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEL0303	2016-08-01
2	EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESCI	SEL0175	2016-05-13
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0288	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0275	2016-05-13
6	Coaxial cable	SGS	N/A	SEL0274	2016-05-13
7	BiConiLog Antenna (30M-1GHz)	Schwarzbeck	VULB9160	SEL0309	2018-10-17
8	Pre-amplifier	Sonoma Instrument Co	310N	SEL0298	2016-05-13
9	Loop Antenna	ETS-LINDGREN	6502	SEL0802	2016-08-14

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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
<p>15.203 requirement:</p> <p>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.</p>	
EUT Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.</p>	



6.2 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.249 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		
	2400MHz-2483.5MHz	94.0	Average Value		
		114.0	Peak Value		
Test Setup:					

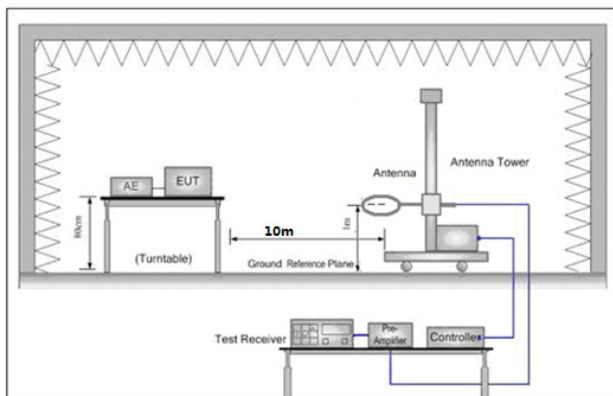


Figure 1. Below 30MHz

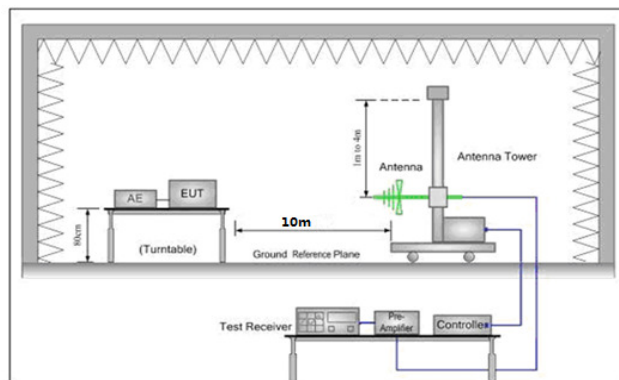


Figure 2. 30MHz to 1GHz

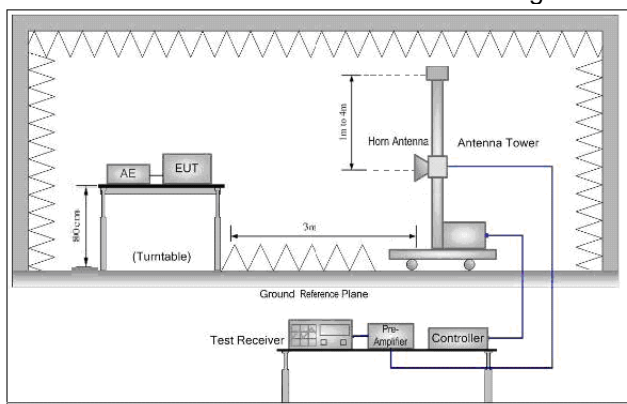


Figure 3. Above 1 GHz

Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber for below 1GHz test and at a 3 meter anechoic chamber for above 1GHz test. 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.



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Shenzhen Branch

Report No.: SZEM151200751101

Page : 14 of 29

Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting mode
Test Results:	Pass

Measurement Data

6.2.1.1 Field Strength Of The Fundamental Signal

Peak value:

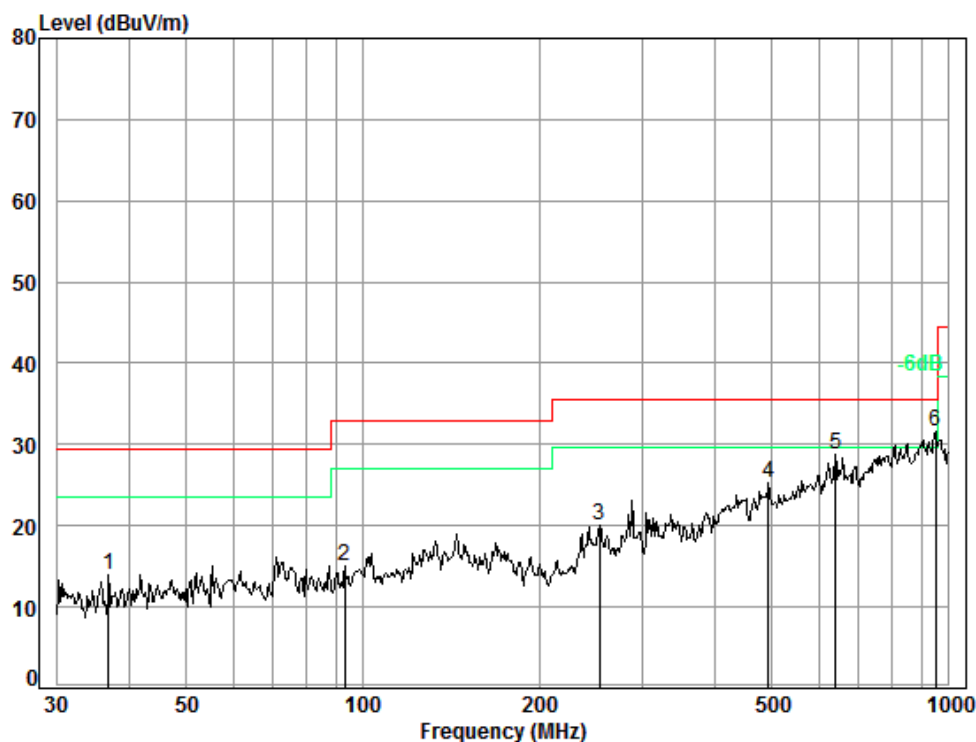
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2410.000	-19.30	32.60	0.0	58.80	72.10	114.0	-41.90	Horizontal
2410.000	-19.30	32.60	0.0	53.20	66.50	114.0	-47.50	Vertical
2445.000	-19.30	32.50	0.0	57.90	71.10	114.0	-42.90	Horizontal
2445.000	-19.30	32.50	0.0	53.30	66.50	114.0	-47.50	Vertical
2470.000	-19.10	32.50	0.0	56.80	70.20	114.0	-43.80	Horizontal
2470.000	-19.10	32.50	0.0	53.00	66.40	114.0	-47.60	Vertical

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6.2.1.2 Spurious Emissions

30MHz~1GHz (QP)	
Test mode:	Transmitting



Condition: 10m Horizontal

Job No. : 7511CR

Test Mode: TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.77	6.74	11.75	32.65	28.12	13.96	29.50	-15.54
2	93.11	7.20	8.85	32.65	31.72	15.12	33.00	-17.88
3	253.84	7.87	11.71	32.57	32.99	20.00	35.60	-15.60
4	492.47	8.56	17.27	32.59	32.01	25.25	35.60	-10.35
5	642.86	9.01	19.92	32.61	32.49	28.81	35.60	-6.79
6 pp	952.09	9.58	24.02	31.35	29.42	31.67	35.60	-3.93

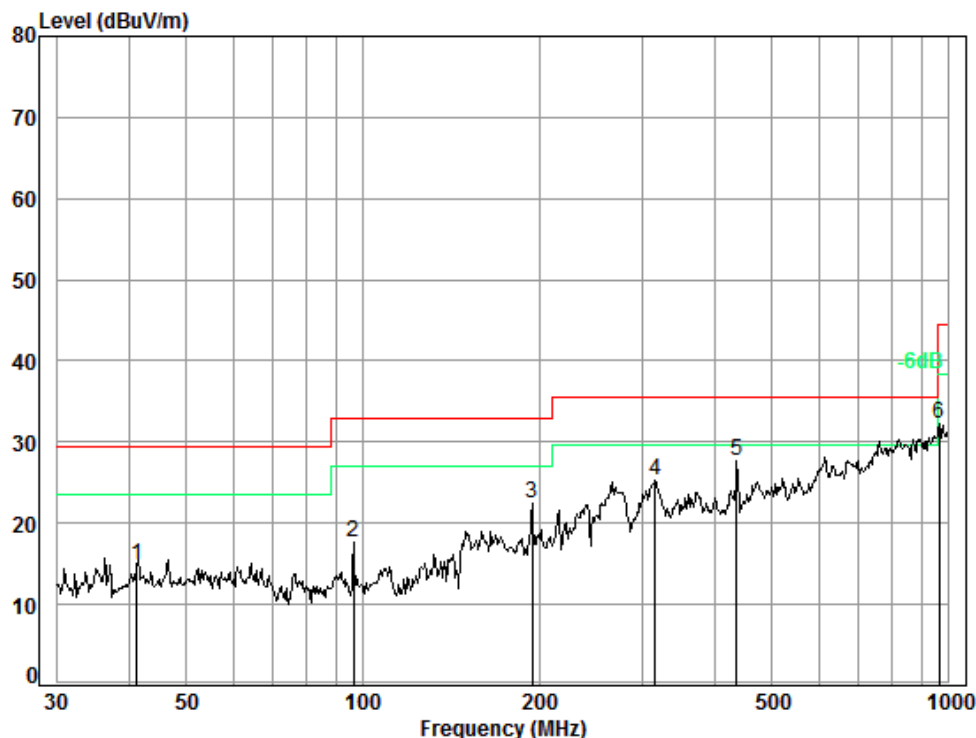
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM151200751101

Page : 16 of 29



Condition: 10m Vertical

Job No. : 7511CR

Test Mode: TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.13	6.80	11.99	32.64	28.76	14.91	29.50	-14.59
2	96.44	7.20	9.16	32.65	33.90	17.61	33.00	-15.39
3	194.45	7.57	10.16	32.59	37.34	22.48	33.00	-10.52
4	315.48	8.09	13.48	32.55	36.37	25.39	35.60	-10.21
5 pp	434.07	8.39	16.25	32.55	35.51	27.60	35.60	-8.00
6	965.54	9.60	24.03	31.22	29.81	32.22	44.40	-12.18

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

Report No.: SZEM151200751101

Page : 17 of 29

Above 1GHz								
Test mode:		Transmitting		Test channel:		Lowest		Remark:
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
3750.000	-31.10	32.90	0.0	40.40	42.20	74.0	-31.80	Vertical
4810.000	-30.40	34.30	0.0	41.50	45.40	74.0	-28.60	Vertical
5880.000	-29.30	34.50	0.0	39.00	44.20	74.0	-29.80	Vertical
7215.000	-27.90	35.80	0.0	37.00	44.90	74.0	-29.10	Vertical
9620.000	-25.10	37.20	0.0	34.40	46.50	74.0	-27.50	Vertical
12510.000	-23.00	38.00	0.0	34.10	49.10	74.0	-24.90	Vertical
3885.000	-31.30	33.20	0.0	41.30	43.20	74.0	-30.80	Horizontal
4810.000	-30.40	34.30	0.0	44.90	48.80	74.0	-25.20	Horizontal
5910.000	-29.20	34.60	0.0	39.40	44.80	74.0	-29.20	Horizontal
7215.000	-27.90	35.80	0.0	37.60	45.50	74.0	-28.50	Horizontal
9620.000	-25.10	37.20	0.0	34.60	46.70	74.0	-27.30	Horizontal
12315.000	-22.50	37.90	0.0	34.20	49.60	74.0	-24.40	Horizontal

Test mode:		Transmitting		Test channel:		Middle		Remark:
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
3735.000	-31.10	32.80	0.0	40.20	41.90	74.0	-32.10	Vertical
4890.000	-30.30	34.60	0.0	43.50	47.80	74.0	-26.20	Vertical
6090.000	-29.10	35.00	0.0	39.10	45.00	74.0	-29.00	Vertical
7335.000	-27.90	35.70	0.0	38.20	46.00	74.0	-28.00	Vertical
9780.000	-24.70	37.30	0.0	34.40	47.00	74.0	-27.00	Vertical
12645.000	-23.10	38.10	0.0	35.20	50.20	74.0	-23.80	Vertical
3630.000	-31.20	32.50	0.0	40.10	41.40	74.0	-32.60	Horizontal
4890.000	-30.30	34.60	0.0	47.20	51.50	74.0	-22.50	Horizontal
6000.000	-28.80	34.90	0.0	39.30	45.40	74.0	-28.60	Horizontal
7335.000	-27.90	35.70	0.0	38.40	46.20	74.0	-27.80	Horizontal
9780.000	-24.70	37.30	0.0	35.50	48.10	74.0	-25.90	Horizontal
12735.000	-23.70	38.20	0.0	35.50	50.00	74.0	-24.00	Horizontal

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

Report No.: SZEM151200751101

Page : 18 of 29

Test mode:		Transmitting		Test channel:		Highest		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3720.000	-31.10	32.80	0.0	40.90	42.60	74.0	-31.40	Vertical	
4950.000	-30.30	34.60	0.0	42.60	46.90	74.0	-27.10	Vertical	
6150.000	-29.40	35.00	0.0	40.70	46.30	74.0	-27.70	Vertical	
7425.000	-27.90	35.70	0.0	37.50	45.30	74.0	-28.70	Vertical	
9900.000	-23.70	37.30	0.0	34.40	48.00	74.0	-26.00	Vertical	
12645.000	-23.10	38.10	0.0	34.60	49.60	74.0	-24.40	Vertical	
3975.000	-31.00	33.20	0.0	41.30	43.50	74.0	-30.50	Horizontal	
4950.000	-30.30	34.60	0.0	46.10	50.40	74.0	-23.60	Horizontal	
6195.000	-29.20	34.90	0.0	38.70	44.40	74.0	-29.60	Horizontal	
7425.000	-27.90	35.70	0.0	37.50	45.30	74.0	-28.70	Horizontal	
9900.000	-23.70	37.30	0.0	34.50	48.10	74.0	-25.90	Horizontal	
12645.000	-23.10	38.10	0.0	34.50	49.50	74.0	-24.50	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) Scan from 9kHz to 25GHz, 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. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .
- 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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6.3 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2009		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit(band edge):	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.		
	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

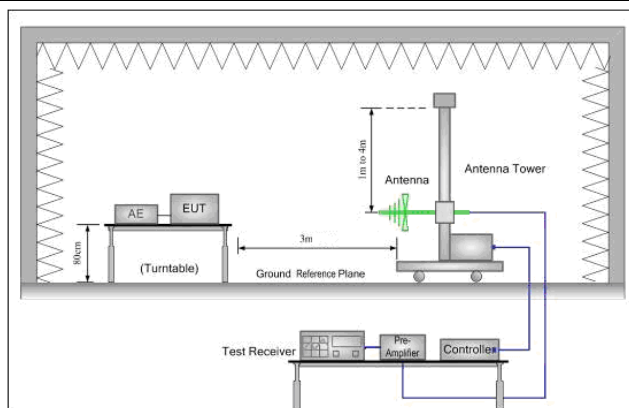


Figure 1. 30MHz to 1GHz

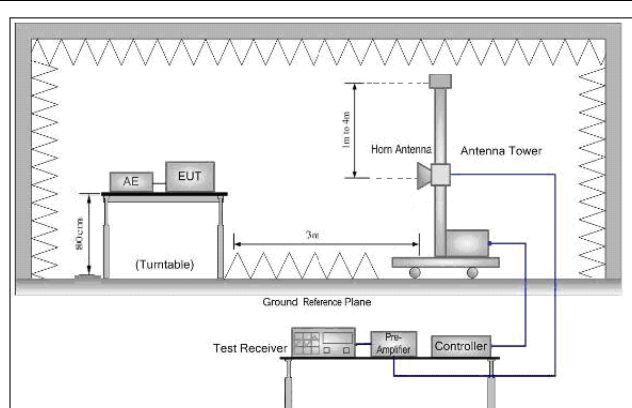


Figure 2. Above 1 GHz



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

Report No.: SZEM151200751101

Page : 20 of 29

Test Procedure:	<ul style="list-style-type: none">a. 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.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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channelg. Test the EUT in the lowest channel , the Highest channelh. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.i. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting mode
Test Results:	Pass

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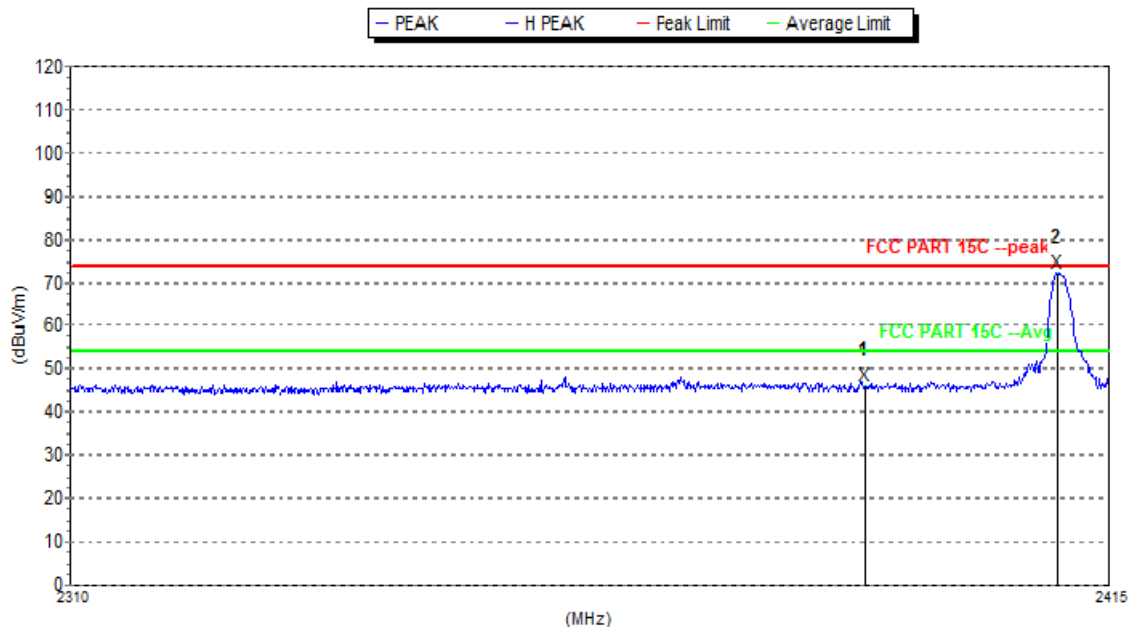
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM151200751101

Page : 21 of 29

Band edge test data (Radiated Emission)

Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	2390.000	46.0	74.0	28.0	32.5	0.0	-19.3	H
2	2409.750	72.2	74.0	1.8	32.6	0.0	-19.3	H

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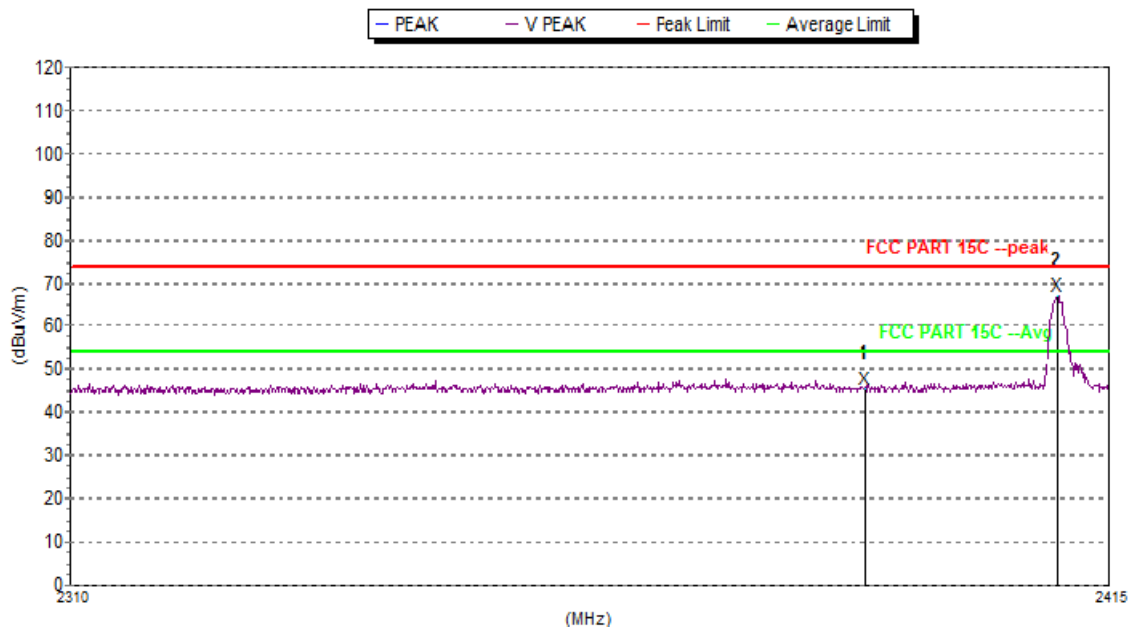


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM151200751101

Page : 22 of 29

Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	2390.000	45.3	74.0	28.7	32.5	0.0	-19.3	V
2	2409.750	66.9	74.0	7.1	32.6	0.0	-19.3	V



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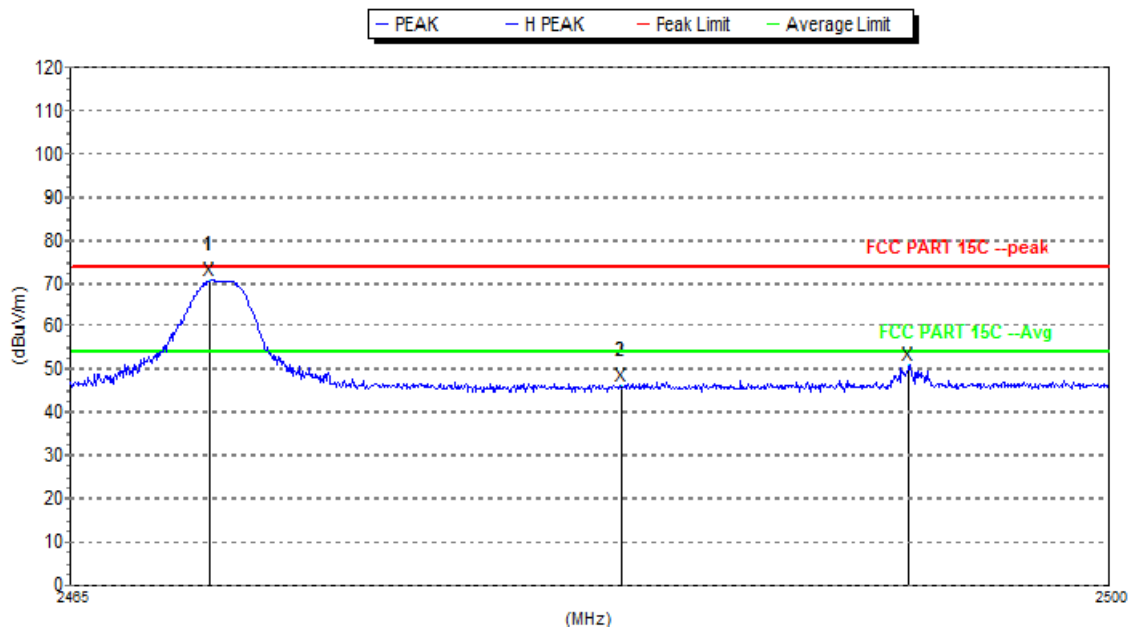


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM151200751101

Page : 23 of 29

Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	2469.690	70.5	74.0	3.5	32.5	0.0	-19.1	H
2	2483.500	46.3	74.0	27.7	32.5	0.0	-19.1	H
	2493.245	50.9	74.0	23.1	32.5	0.0	-19.0	H

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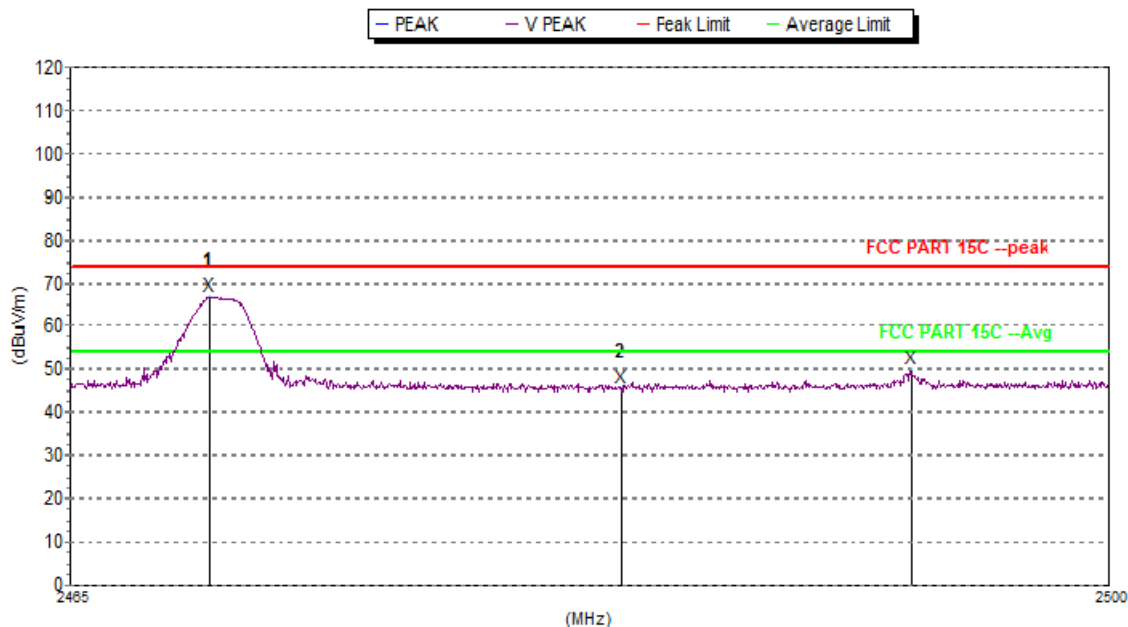


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM151200751101

Page : 24 of 29

Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
------------	--------------	---------------	---------	---------	------



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	2469.690	66.9	74.0	7.1	32.5	0.0	-19.1	V
2	2483.500	45.9	74.0	28.1	32.5	0.0	-19.1	V
3	2493.315	50.3	74.0	23.7	32.5	0.0	-19.0	V

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

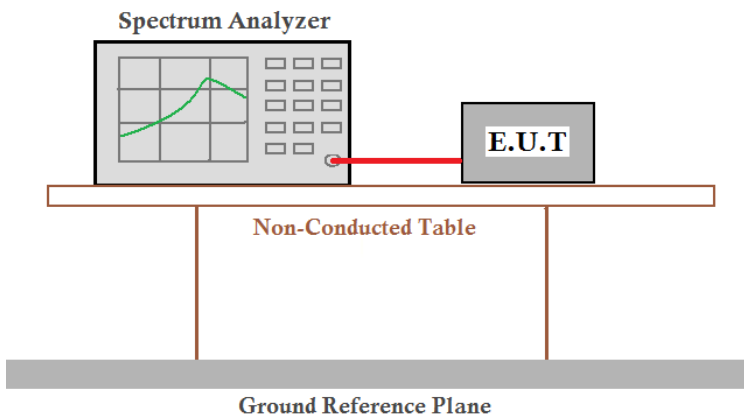
$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

Remark:

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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6.4 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2009
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Limit:	N/A
Test Results:	Pass

Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.116	Pass
Middle	1.134	Pass
Highest	1.128	Pass



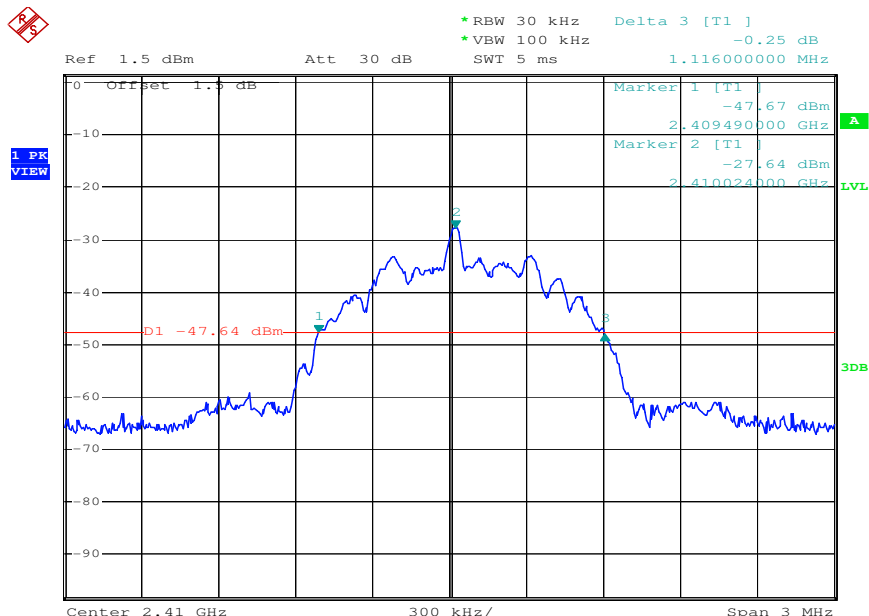
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Report No.: SZEM151200751101

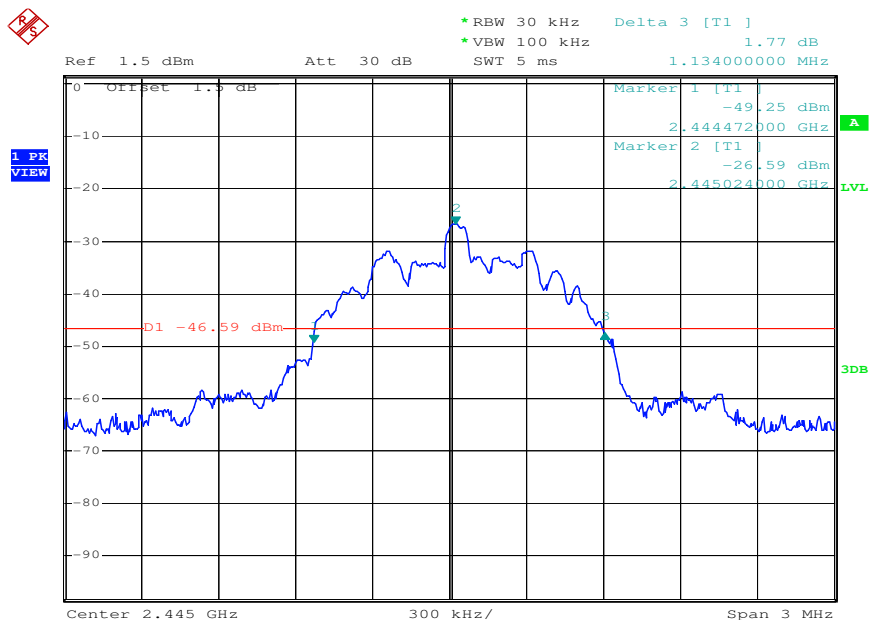
Page : 26 of 29

Test plot as follows:

Test channel:	Lowest
---------------	--------



Test channel:	Middle
---------------	--------



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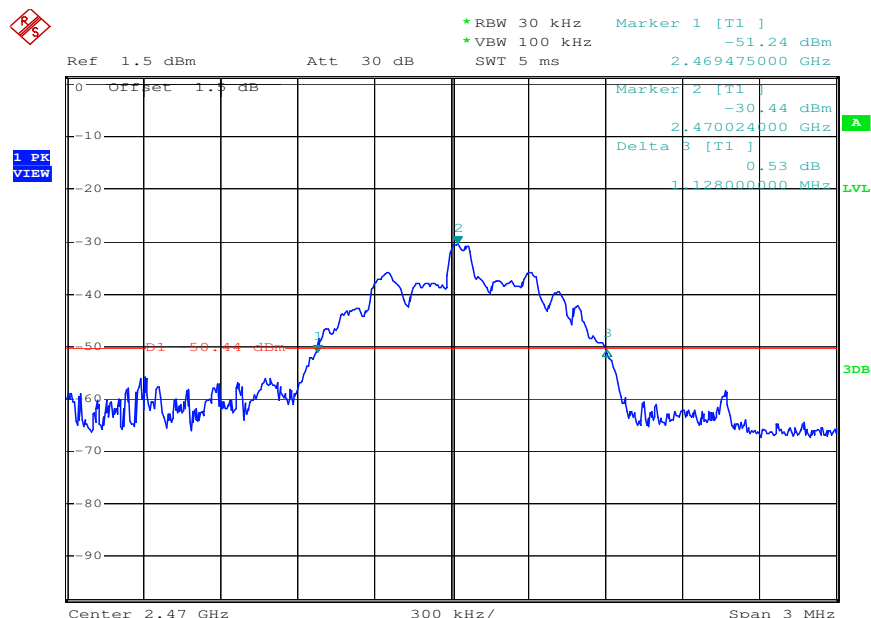


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Report No.: SZEM151200751101

Page : 27 of 29

Test channel:	Highest
---------------	---------

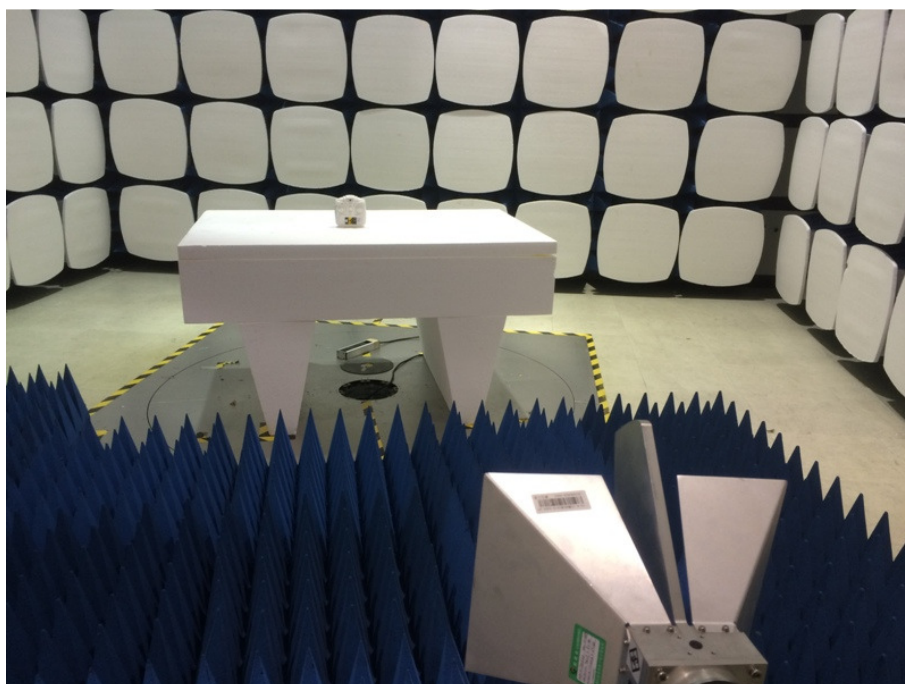


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7 Photographs

Test Model No.: CX-32

7.1 Radiated Emission Test Setup



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7.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1512007511CR.