



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

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Report No.: SZEM161000877504
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FCC Test Report

Application No.: SZEM1610008775CR
Applicant: Spire Inc
Manufacturer: Dongguan Wise Ally Industrial Company Limited
Factory: Regent Electron DongGuang Co.,Ltd
Equipment Under Test (EUT):
EUT Name: Chargepad for Mindfulness
Model No.: C2
Trade mark: Spire
FCC ID: 2ACF5C2
Standards: 47 CFR PART 18: 2014
Date of Receipt: 2016-11-10
Date of Test: 2016-11-15 to 2016-12-08
Date of Issue: 2017-10-18

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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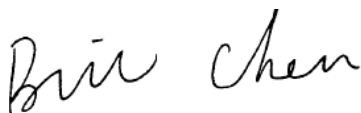
2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission (150 kHz to 30 MHz)	47 CFR PART 18: 2014	FCC OST/ MP-5:1986	18.307(b)	Pass
Radiated Emission (9 kHz to 30MHz)	47 CFR PART 18: 2014	FCC OST/ MP-5:1986	18.305(b)	Pass
Radiated Emission (30 MHz to 1GHz)	47 CFR PART 18: 2014	FCC OST/ MP-5:1986	18.305(b)	Pass



REVISION HISTORY

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2017-10-18		Original

Authorized for issue by:				
Tested By		 		2016-12-08
				Date
Checked By		 		2017-10-18
				Date
		(Bill Chen) /Project Engineer		
		(Eric Fu) /Reviewer		



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4 General Information

4.1 Client Information

Applicant:	Spire Inc
Address of Applicant:	2030 Harrison St 2 nd Floor, San Francisco, CA 94115
Manufacturer:	Dongguan Wise Ally Industrial Company Limited
Address of Manufacturer:	No.3 Zhen An Middle Road, Wu Sha Community, ChangAn Town, Dongguan City, Guangdong, China
Factory:	Regent Electron DongGuang Co.,Ltd
Address of Factory:	400 Quantang section Shida road Quantang area Lilaobu town Dongguan City Guangdong province P.R.C

4.2 General Description of EUT

Product Name:	Chargepad for Mindfulness
Model No.:	C2
Trade mark:	Spire
Sample Type:	Wireless charger
Wireless Charging Operation Frequency:	1MHz
Power Supply:	PC power supply DC input 5V 1A DC output 5V 1A
Test Voltage:	AC 120V 60Hz

4.3 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
Laptop	Lenovo	T430u
Macbook Air	Apple	A1466
Mouse	IBM	MO28UOL
Router	NETGEAR	DGN2200
Micro USB Cable	PHILIPS	SWR2101



4.4 Test Location

All tests were performed at:

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

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

Tel: +86 755 2601 2053

Fax: +86 755 2671 0594

4.5 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 –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber 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-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.



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5 Equipment List

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2016-09-28	2017-09-28
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2016-09-28	2017-09-28
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2016-09-28	2017-09-28
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25
8	Cable	SGS	CE	--	2016-10-09	2017-10-09

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2016-05-13	2017-05-13
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2016-04-25	2017-04-25
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-07-06	2017-07-06
5	Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
6	Cable	SGS	RE10	--	2016-10-09	2017-10-09

General used equipment						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	Humidity/Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12
2	Humidity/Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12
3	Humidity/Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12
4	Barometer	Changchun	DYM3	SEM002-01	2016-05-18	2017-05-18

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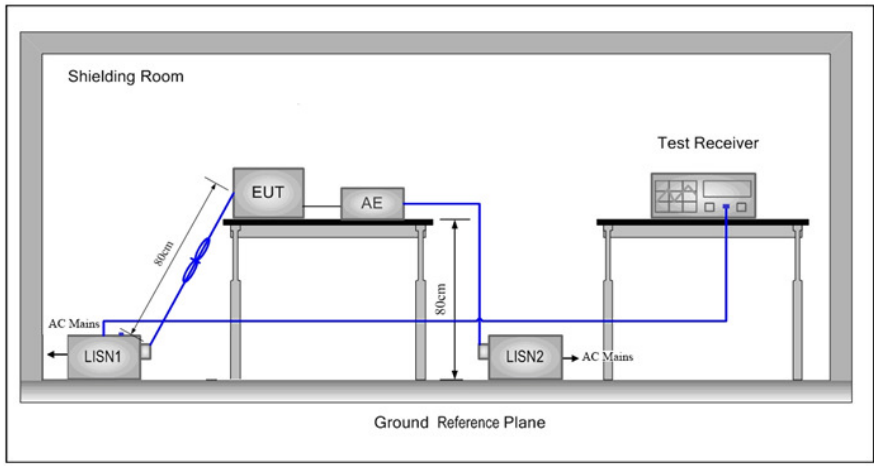
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		Meteorological Industry Factory				
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6 Test Results

6.1 Conducted Emissions

Test Requirement:	47 CFR PART 18		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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 logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 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 rear of the 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 of 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 on conducted measurement.		

Test Setup:	
Test Mode:	Wireless charge mode. Keep EUT charging with low current, middle current and high current to find the worst case. The compliance test performed at high current since no worst case was found.
Instruments Used:	Refer to section 5 for details
Test Results:	Pass

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.

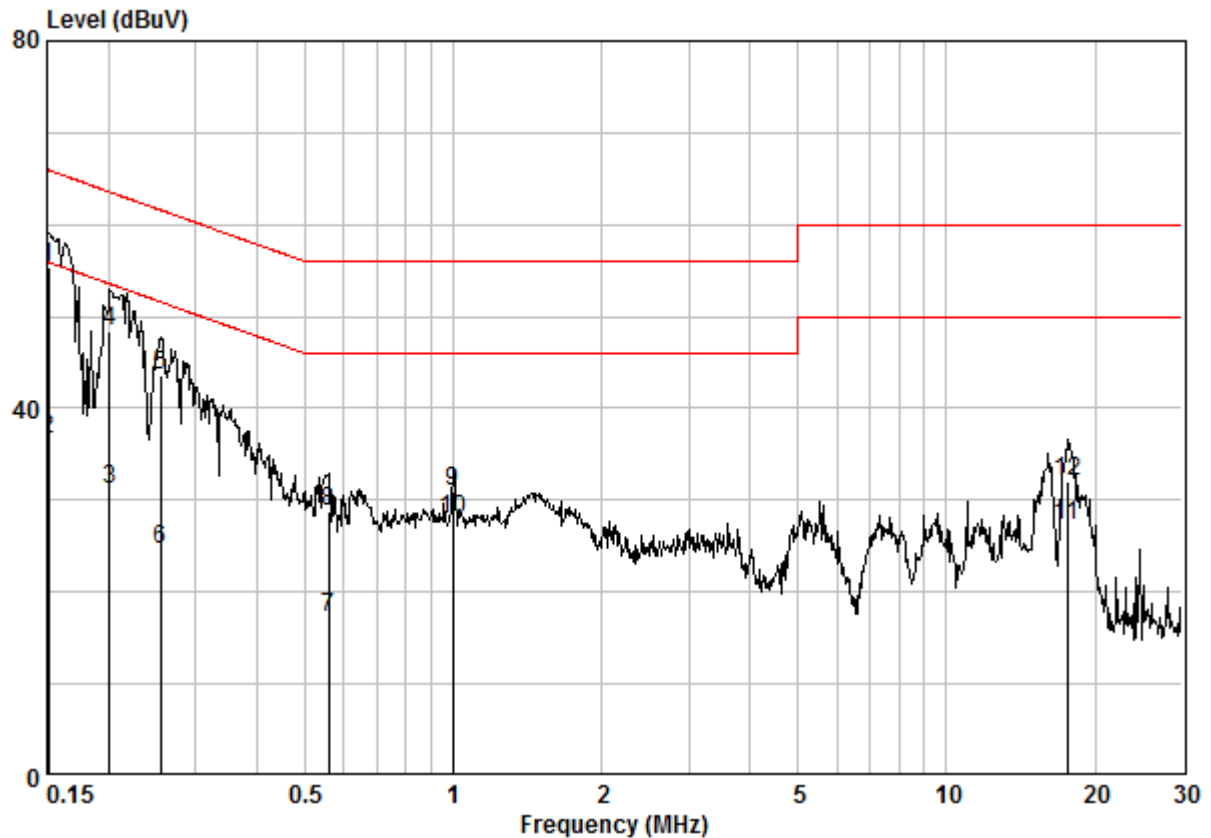


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Live Line:



Site : Shielding Room
Condition : CE LINE
Job No. : 8775CR
Test Mode : a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.15080	0.02	9.59	45.81	55.42	65.96	-10.53	QP
2	0.15080	0.02	9.59	26.91	36.52	55.96	-19.44	AVERAGE
3	0.20075	0.02	9.60	21.51	31.13	53.58	-22.45	AVERAGE
4	0.20075	0.02	9.60	38.81	48.43	63.58	-15.15	QP
5	0.25480	0.02	9.60	33.92	43.54	61.60	-18.06	QP
6	0.25480	0.02	9.60	15.11	24.73	51.60	-26.87	AVERAGE
7	0.55814	0.02	9.60	7.64	17.26	46.00	-28.74	AVERAGE
8	0.55814	0.02	9.60	19.07	28.70	56.00	-27.30	QP
9	0.99968	0.03	9.63	21.35	31.01	56.00	-24.99	QP
10	0.99968	0.03	9.63	18.19	27.85	46.00	-18.15	AVERAGE
11	17.568	0.16	9.77	17.24	27.18	50.00	-22.82	AVERAGE
12	17.568	0.16	9.77	22.15	32.09	60.00	-27.91	QP

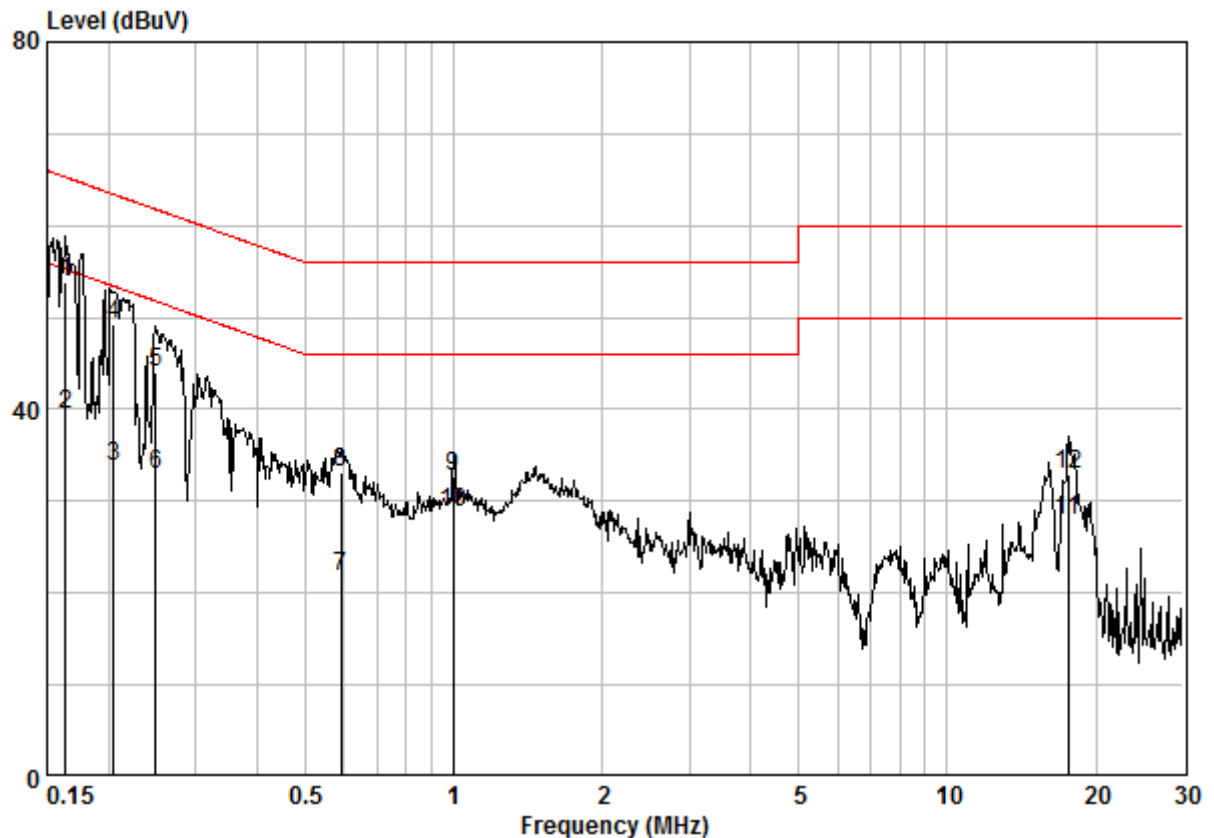


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Neutral Line:

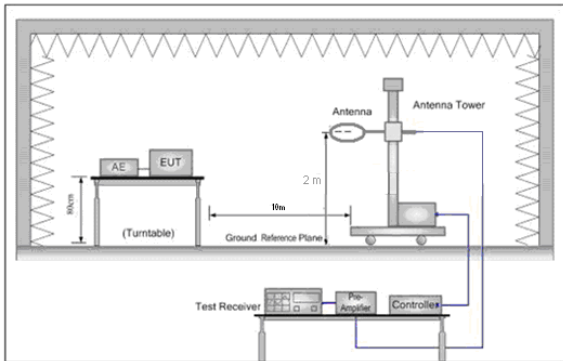


Site : Shielding Room
Condition : CE NEUTRAL
Job No. : 8775CR
Test Mode : a

	Freq	Cable	LISN	Read	Limit	Over	
	MHz	Loss	Factor	Level	Line	Limit	Remark
		dB		dBuV	dBuV	dB	
1 @	0.16327	0.02	9.61	44.25	53.87	65.30	-11.42 QP
2	0.16327	0.02	9.61	29.91	39.54	55.30	-15.76 AVERAGE
3	0.20505	0.02	9.62	24.25	33.89	53.40	-19.52 AVERAGE
4	0.20505	0.02	9.62	39.70	49.34	63.40	-14.06 QP
5	0.24945	0.02	9.61	34.39	44.02	61.78	-17.76 QP
6	0.24945	0.02	9.61	23.31	32.94	51.78	-18.84 AVERAGE
7	0.59164	0.02	9.63	12.11	21.76	46.00	-24.24 AVERAGE
8	0.59164	0.02	9.63	23.48	33.13	56.00	-22.87 QP
9	0.99968	0.03	9.65	22.99	32.67	56.00	-23.33 QP
10	0.99968	0.03	9.65	19.06	28.74	46.00	-17.26 AVERAGE
11	17.568	0.16	9.95	17.84	27.96	50.00	-22.04 AVERAGE
12	17.568	0.16	9.95	22.86	32.98	60.00	-27.02 QP

6.2 Radiated Emissions

Test Requirement:	47 CFR PART 18				
Test Site:	Measurement Distance: 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	
	9kHz~150kHz	Quasi-peak	200Hz	≥RBW	
	150kHz~30MHz	Quasi-peak	9kHz	≥RBW	
	30MHz~1GHz	Quasi-peak	100kHz	≥RBW	
Limit:	Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
	Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25×SQRT (power/500)	300 1300
		Any non-ISM frequency	Below 500 500 or more	15 15×SQRT (power/500)	300 1300
	Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)
	Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
	Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz)×SQRT(power/500)	300 3300
		490 to 1,600 kHz Above 1,600 kHz	Any Any	24,000/F(kHz) 15	30 30
	Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	430 430
Test Setup:					



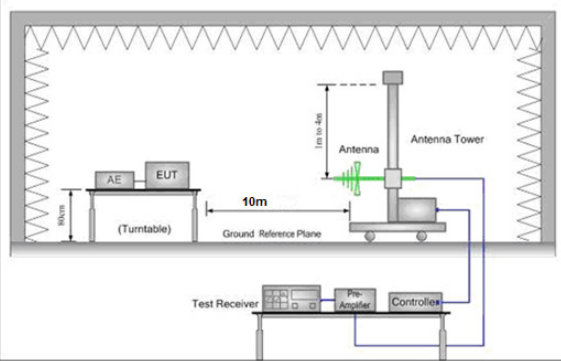


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

Test Procedure:	a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber(30MHz-1000MHz) and 10 meter semi-anechoic chamber(9kHz-30MHz). The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 10 meters(30MHz-1000MHz) and 10 meter(9kHz-30MHz) away from the interference-receiving antenna, which was
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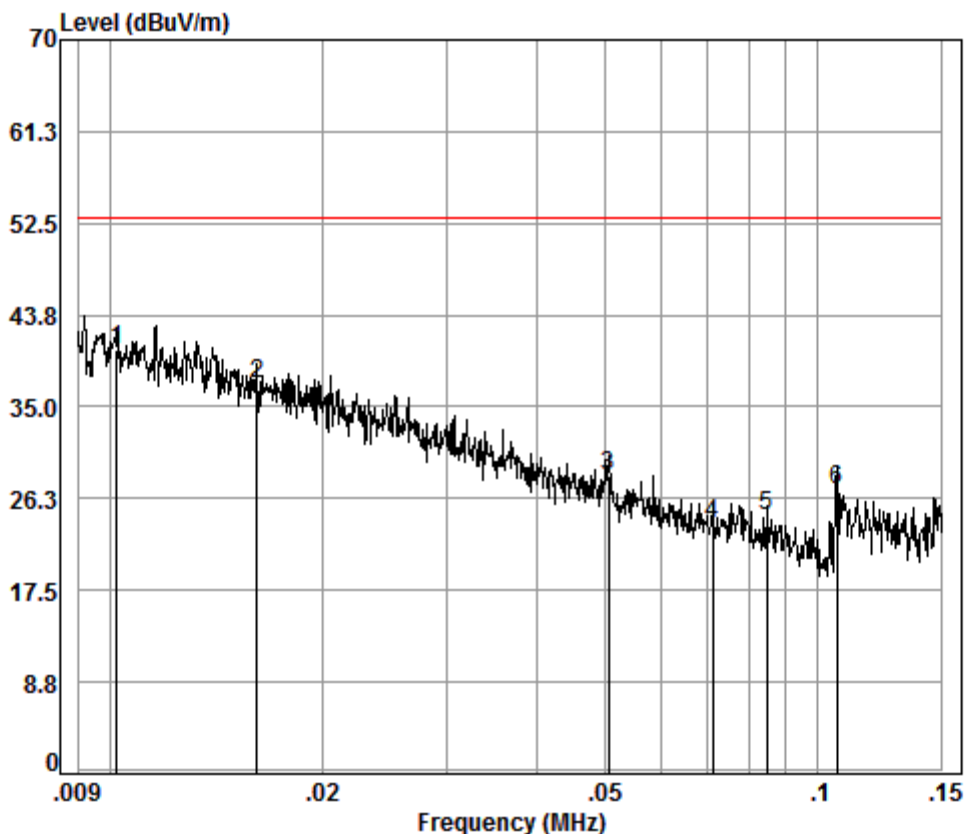
	mounted on the top of a variable-height antenna tower. c. Above 30MHz: The Analyzer/Receiver scanned from 30MHz to 1000MHz. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. Below 30MHz: The Analyzer/Receiver scanned from 9kHz to 30MHz. The antenna height is 2 meters above the ground to determine the maximum value of the field strength. e. 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 2 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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. h. Repeat above procedures until all frequencies measured was complete. i. Measurement Requirement: According to the clause 18.305(c) notes 2. At frequencies at or above 30MHz: $\text{Limit}_{3m}(\text{dBuV}) = \text{Limit}_{xm}(\text{dBuV}) + 20\log(xm/3m)$ At frequencies below 30MHz: $\text{Limit}_{10m}(\text{dBuV}) = \text{Limit}_{xm}(\text{dBuV}) + 20\log(xm/3m)$ Remark: x replace the number 10,30,300.
Test Mode:	Wireless charge mode. Keep EUT charging with low current, middle current and high current to find the worst case. The compliance test performed at high current since no worst case was found.
Instruments Used:	Refer to section 5 for details
Test Results:	Pass



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0.009MHz-30MHz



Condition: 10m
Job No. : 8775CR
Test Mode: a

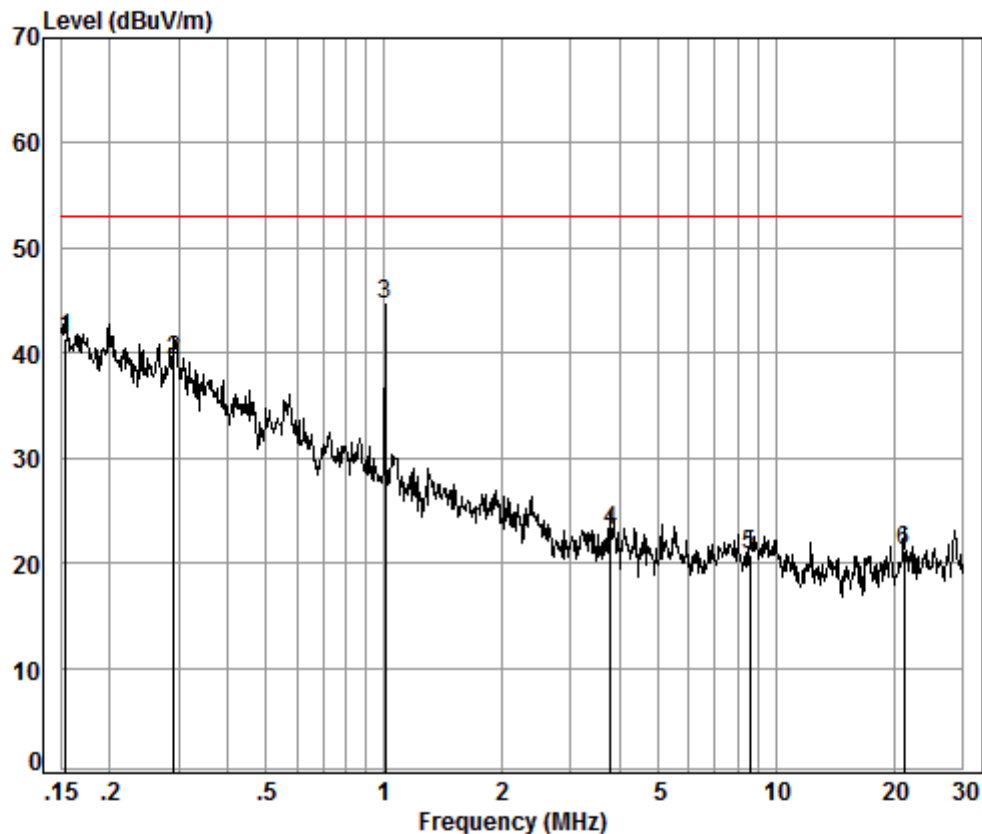
	Freq	Cable	Ant	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1 pp	0.01	0.29	21.63	0.00	18.56	40.48	53.06
2	0.02	0.24	18.43	0.00	18.49	37.16	53.06
3	0.05	0.12	12.71	0.00	15.50	28.33	53.06
4	0.07	0.09	12.87	0.00	10.87	23.83	53.06
5	0.08	0.07	12.94	0.00	11.59	24.60	53.06
6	0.11	0.05	12.97	0.00	14.08	27.10	53.06



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Condition: 10m

Job No. : 8775CR

Test Mode: a

	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	0.15	0.07	12.80	0.00	28.42	41.29	53.06	-11.77
2	0.29	0.09	12.73	0.00	26.55	39.37	53.06	-13.69
3 pp	1.00	0.23	12.80	0.00	31.59	44.62	53.06	-8.44
4	3.78	0.40	12.04	0.00	10.59	23.03	53.06	-30.03
5	8.59	0.48	10.69	0.00	9.66	20.83	53.06	-32.23
6	21.26	0.69	10.58	0.00	9.95	21.22	53.06	-31.84



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Test Result:

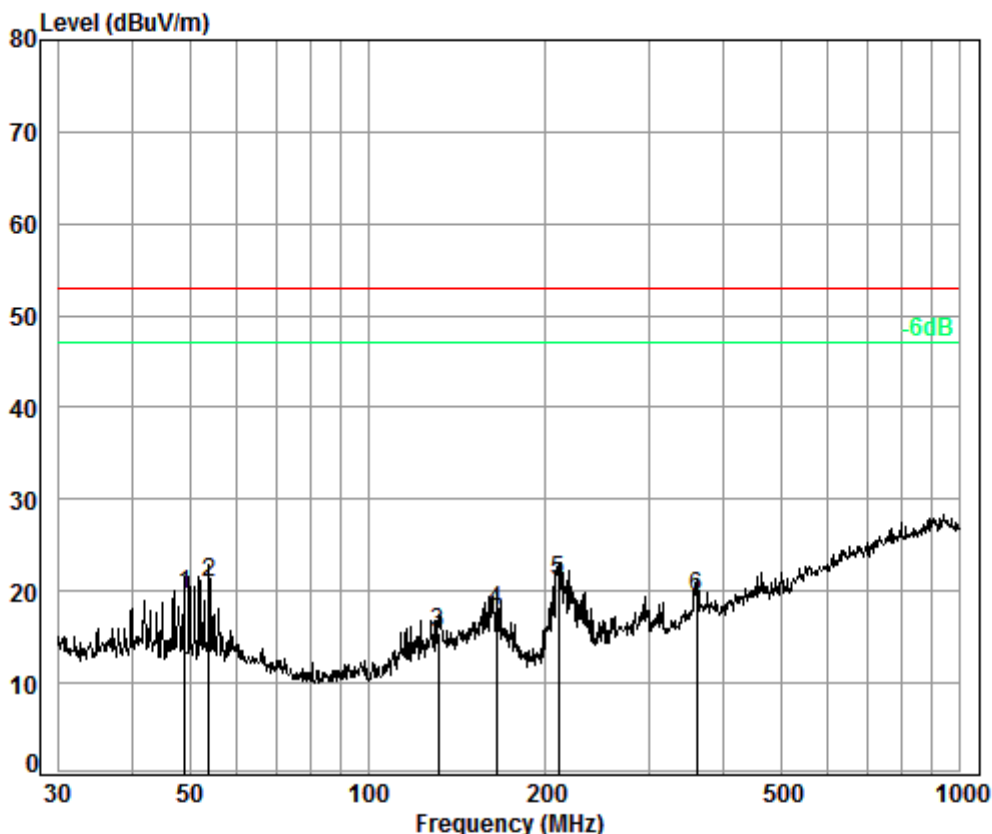
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 300m (dBuV/m)	Limit @ 300m (dBuV/m)	Margin (dB)	Ant. Polarization
0.01	40.48	10.94	23.52	-12.58	X
0.02	37.16	7.62	23.52	-15.90	X
0.05	28.33	-1.21	23.52	-24.73	X
0.07	23.83	-5.71	23.52	-29.23	X
0.08	24.60	-4.94	23.52	-28.46	X
0.11	27.10	-2.44	23.52	-25.96	X
0.15	41.29	11.75	23.52	-11.77	X
0.29	39.37	9.83	23.52	-13.69	X
1.00	44.62	15.08	23.52	-8.44	X
3.78	23.03	-6.51	23.52	-30.03	X
8.59	20.83	-8.71	23.52	-32.23	X
21.26	21.22	-8.32	23.52	-31.84	X



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Mode:a;Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 8775CR

Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	49.01	6.88	12.80	33.00	32.95	19.63	53.06	-33.43
2	53.88	6.98	12.46	32.98	34.52	20.98	53.06	-32.08
3	131.76	7.36	12.16	32.76	28.67	15.43	53.06	-37.63
4	164.91	7.50	12.91	32.73	30.18	17.86	53.06	-35.20
5 pp	210.05	7.65	9.53	32.69	36.67	21.16	53.06	-31.90
6	359.19	8.30	14.05	32.60	29.56	19.31	53.06	-33.75

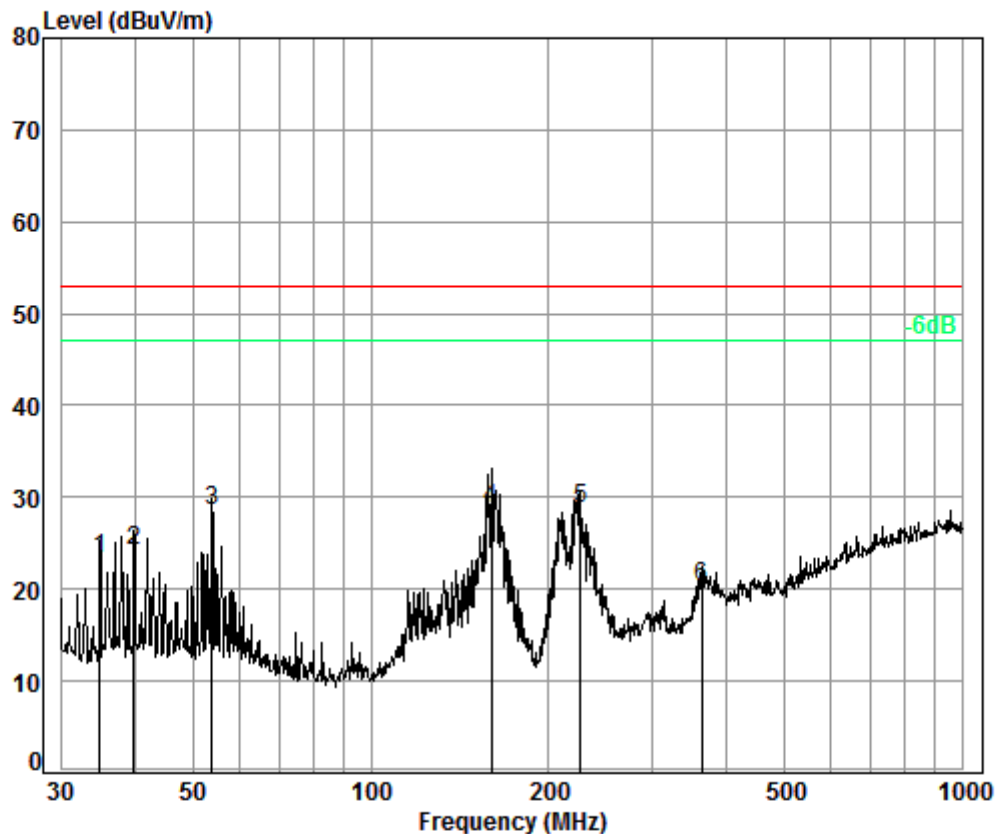


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Mode:a;Polarization:Vertical



Condition: 10m Vertical

Job No. : 8775CR

Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	34.88	6.70	12.64	32.98	36.88	23.24	53.06	-29.82
2	39.85	6.80	13.30	32.99	37.19	24.30	53.06	-28.76
3	53.88	6.98	12.46	32.98	42.20	28.66	53.06	-24.40
4 pp	159.78	7.50	13.39	32.73	40.60	28.76	53.06	-24.30
5	226.10	7.73	10.54	32.67	43.11	28.71	53.06	-24.35
6	361.71	8.30	14.10	32.60	30.56	20.36	53.06	-32.70



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Test Result:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 300m (dBuV/m)	Limit @ 300m (dBuV/m)	Margin (dB)	Ant. Polarization
49.01	19.63	-9.91	23.52	-33.43	H
53.88	20.98	-8.56	23.52	-32.08	H
131.76	15.43	-14.11	23.52	-37.63	H
164.91	17.86	-11.68	23.52	-35.2	H
210.05	21.16	-8.38	23.52	-31.9	H
359.19	19.31	-10.23	23.52	-33.75	H
34.88	23.24	-6.30	23.52	-29.82	V
39.85	24.3	-5.24	23.52	-28.76	V
53.88	28.66	-0.88	23.52	-24.4	V
159.28	28.76	-0.78	23.52	-24.3	V
226.1	28.71	-0.83	23.52	-24.35	V
361.7	20.36	-9.18	23.52	-32.7	V

Remark:

1:The loop antenna rotated about both Vertical and Horizontal to find the maximum emission,So only the worst position(Horizontal) was report.

2:According to the clause 2.3 of MP-5:1986, the highest frequency is 1MHz, So the Range of frequency measurements is 9kHz to 1GHz.

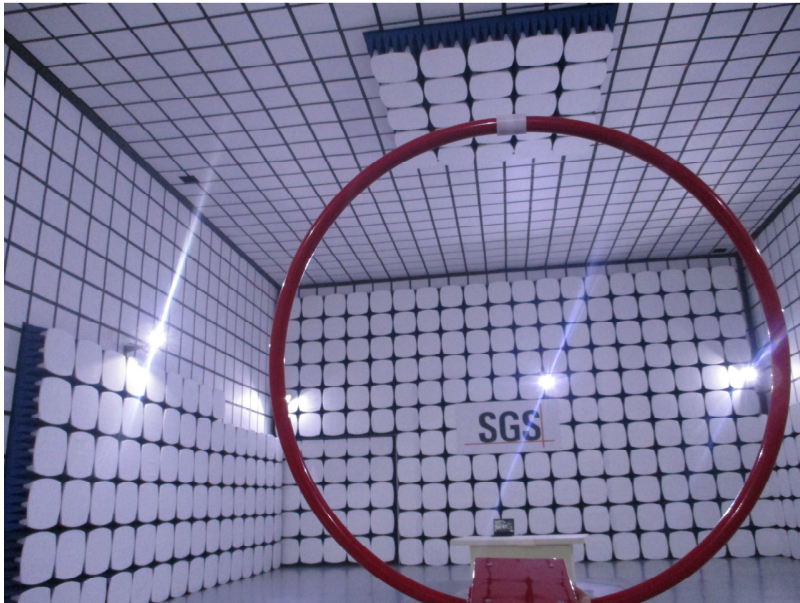
7 Photographs

Test Model No.: C2

7.1 Conducted Emission Test Setup



7.2 Radiated Emission Test Setup





7.3 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1610008775R.