

Issued: 2016-9-29

TEST REPORT

Applicant Name & : Foshan Shunde YA-IN Electric Appliance Manufacture Co., Ltd

Address No. 8 Longxiao Road. Longyongkou, Ronggui Town, Shunde, Foshan

Guangdong 528305 China

Manufacturing Site : Same as applicant

Sample Description

Product : Induction Cooktop

Model No. : C74E-AAAA02, C74E-AAAA03

Electrical Rating : AC 240V~ 60Hz, 7400W FCC ID : ZFB- C74E-AAAA02

Date Received : 7 August 2016

Date Test Conducted : 7 August 2016 – 20 September 2016

Test standards : FCC Part 18: 2014

Test Result : Pass

Conclusion : The submitted samples complied with the above rules/standards.

Remark : None.

Prepared and Checked By:

Leo Luo Engineer

Intertek Guangzhou

Approved By:

Helen Ma Team Leader

Intertek Guangzhou

29 September 2016

Date

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TEST RESULTS SUMMARY

Test Item	Standard	Result
Conducted Emission (9 kHz-30 MHz)	FCC Part 18: 2014	Pass
Radiated Emission (9 kHz-30 MHz)	FCC Part 18: 2014	Pass
Radiated Emission (30 MHz-1 GHz)	FCC Part 18: 2014	Pass
Radiated Emission (above 1 GHz)	FCC Part 18: 2014	N/A

Remark: 1. The symbol "N/A" in above table means Not Applicable.

2. When determining the test results, measurement uncertainty of tests has been considered.



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2 Test Results Conclusion

(with Justification)

RE: EMC Testing Pursuant to FCC Part 18 performed on the Induction Cooktop, Models: C74E-AAAA02. C74E-AAAA03.

We tested the Induction Cooktop, Model: C74E-AAAA02, C74E-AAAA03, to determine if they were in compliance with the relevant FCC rules as marked on the Test Results Summary. We found that the units met the requirement of FCC Part 18 when tested as received. The worst case's test data was presented in this test report.

The submitted samples C74E-AAAA02, C74E-AAAA03 are Induction Hotplates for household use.

Model C74E-AAAA02, C74E-AAAA03 are the same except the model name.

According to above information, all the tests are performed on C74E-AAAA02.

Conclusion:

The sample as received complied with the FCC Part 18 requirement.

The production units are required to conform to the initial sample as received when the units are placed on the market.



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3 LABORATORY MEASUREMENTS

Configuration Information

Equipment Under Test (EUT): Induction Cooktop

Model: C74E-AAAA02

Serial No.: Not Labeled

Support Equipment: N/A

Rated Voltage: AC 240V~ 60Hz,

Condition of Environment: Temperature : 22~28°C

Relative Humidity: 35~60% Atmosphere Pressure 86~106kPa

Notes:

1. The EMI measurements had been made in the operating mode producing the largest emission in the frequency band being investigated consistent with normal applications.

An attempt had been made to maximize the emission by varying the configuration of the EUT.

2. Test Sites:

All of the tests are performed at:

Guangdong CIQ Technology Center.

No.3, Desheng East Road, Shunde Daliang, Foshan, Guangdong, China.

This test facility and site measurement data have been fully placed on file with the FCC, test firm registration number is 756674.



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4 Test Configuration

Cooking Vessel (provided by manufacturer):

Fill container with 80% of water.

Material: stainless steel

Contact surface diameter 18cm, Top surface diameter 23cm

The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Test the EUT in the lowest power level, middle level and the highest power level, the worst test data was presented in the report.

5 TEST RESULTS

5.1 Conducted Emission Test

Test Result: Pass

5.1.1 Used Test Equipment

The middle power mode and the lowest power mode were conducted by below Equipment:

Equipment No.	Equipment	Model	Manufacturer	Last Cal.	Due Date
CQCSC-EMC-001	Shielded Room	TDK	8*6*4	2016/03/17	2019/03/17
CQCSC-EMC-002	EMI Test receiver	R&S	ESU8	2016/03/17	2017/03/17
CQCSC-EMC-007	LISN	R&S	ESH2-Z5	2016/03/17	2017/03/17
CQCSC-EMC-010	Shielded Room	TDK	8*6*4	2016/03/17	2019/03/17
CQCSC-EMC-052	LISN	R&S	ENV216	2015/12/11	2016/12/11

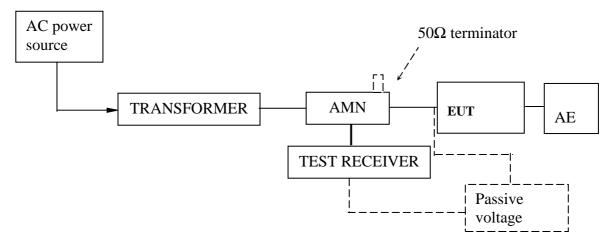
The highest power mode were conducted by below Equipment:

Equipment No.	Equipment	Model	Manufacturer	Last Cal.	Due Date
SD00781	EMI receiver	SMR4503	SCHAFNER	2016.8.31	2017.8.30
201044CK0121	LISN	ESH2-Z5	Rohde & Schwarz	2016.8.31	2017.8.30
1244BK0003SD	10dB Pulse Limiter	PLA-10N	Compliance Direction Systems Inc.	2016.8.31	2017.8.30
201044CK0128-1	shielding room	NP-HJ2	Changzhou Nanping	2016.1.12	2017.1.11



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5.1.2 Block Diagram of Test Setup



5.1.3 Test Setup and Procedure

Test was performed according to FCC OST/ MP-5:1986. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane(Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 9 kHz to 30MHz was checked.

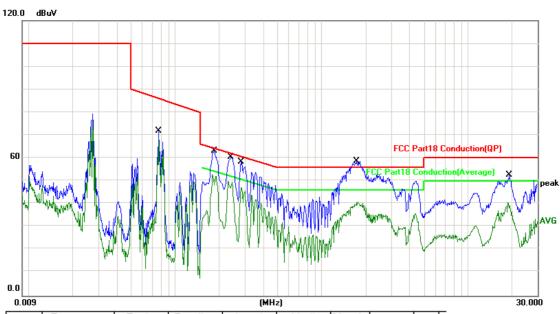


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5.1.4 Test Data & Curve

At main terminal: Pass

Tested Wire: Live Operation Mode: the highest power



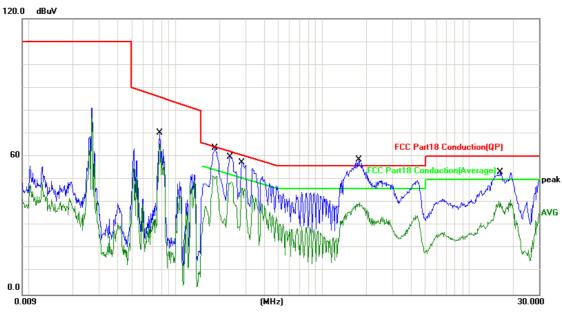
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.0774	9.99	47.50	57.49	86.02	-28.53	QP	Р
2	0.1850	10.00	48.30	58.30	64.25	-5.95	QP	Р
3	0.1850	10.00	37.90	47.90	54.25	-6.35	AVG	Р
4	0.2400	10.01	47.40	57.41	62.09	-4.68	QP	Р
5	0.2400	10.01	38.20	48.21	52.09	-3.88	AVG	Р
6	0.2850	10.01	39.10	49.11	60.67	-11.56	QP	Р
7	0.2850	10.01	27.30	37.31	50.67	-13.36	AVG	Р
8	1.7400	10.05	43.40	53.45	56.00	-2.55	QP	Р
9	1.7400	10.05	29.20	39.25	46.00	-6.75	AVG	Р
10	19.2700	10.28	36.50	46.78	60.00	-13.22	QP	Р
11	19.2700	10.28	26.70	36.98	50.00	-13.02	AVG	Р



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Tested Wire: Neutral

Operation Mode: the highest power

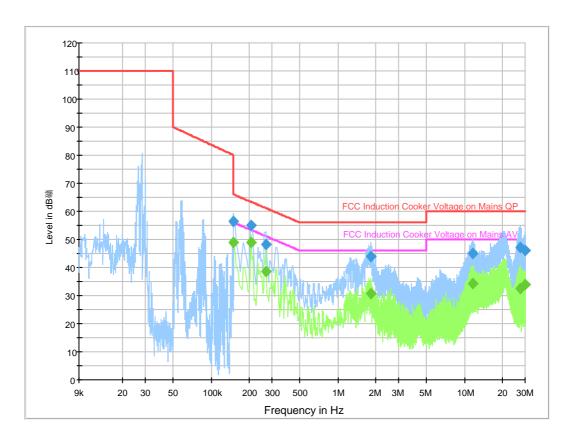


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.0779	9.99	59.40	69.39	85.96	-16.57	QP	Р
2	0.1850	10.00	50.50	60.50	64.25	-3.75	QP	Р
3	0.1850	10.00	40.80	50.80	54.25	-3.45	AVG	Р
4	0.2350	10.01	47.30	57.31	62.27	-4.96	QP	Р
5	0.2350	10.01	37.90	47.91	52.27	-4.36	AVG	Р
6	0.2850	10.01	44.50	54.51	60.67	-6.16	QP	Р
7	0.2850	10.01	36.50	46.51	50.67	-4.16	AVG	Р
8	1.7750	10.06	42.70	52.76	56.00	-3.24	QP	Р
9	1.7750	10.06	29.60	39.66	46.00	-6.34	AVG	Р
10	16.3300	10.26	39.70	49.96	60.00	-10.04	QP	Р
11	16.3300	10.26	29.30	39.56	50.00	-10.44	AVG	Р



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Tested Wire: Live Operation Mode: Middle power

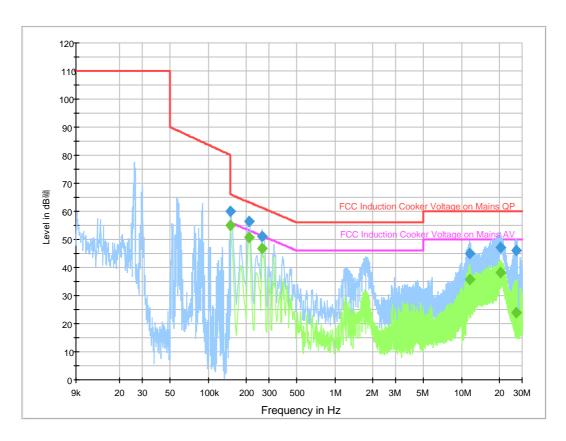


Frequency	QuasiPeak	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
		(ms)						
0.150	56.5	1000.	9.000	GND	L1	10.0	-9.5	66.0
0.206	55.1	1000.	9.000	GND	L1	10.0	-8.2	63.4
0.270	48.1	1000.	9.000	GND	L1	10.0	-13.0	61.1
1.826	43.8	1000.	9.000	GND	L1	10.0	-12.2	56.0
11.506	45.2	1000.	9.000	GND	L1	10.2	-14.8	60.0
27.254	47.2	1000.	9.000	GND	L1	10.4	-12.8	60.0
Frequency	Average	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
0.150	49.0	1000.	9.000	GND	L1	10.0	-7.0	56.0
0.206	48.9	1000.	9.000	GND	L1	10.0	-4.5	53.4
0.270	38.5	1000.	9.000	GND	L1	10.0	-12.6	51.1
1.826	30.8	1000.	9.000	GND	L1	10.0	-15.2	46.0
11.506	34.2	1000.	9.000	GND	L1	10.2	-15.8	50.0
27.254	32.4	1000.	9.000	GND	L1	10.4	-17.6	50.0



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Tested Wire: Neutral Operation Mode: Middle power

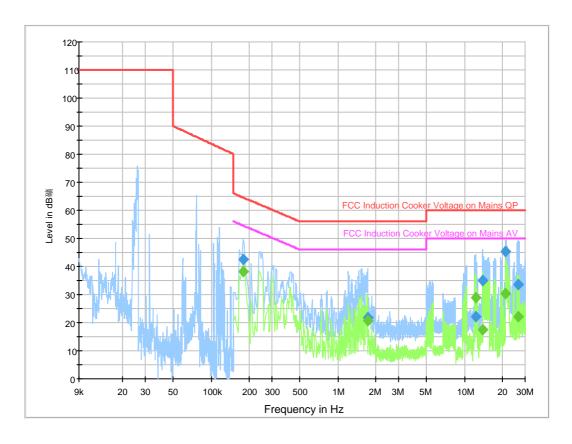


Frequency	QuasiPeak	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
		(ms)						
0.150	60.0	1000.	9.000	GND	N	10.0	-6.0	66.0
0.210	56.6	1000.	9.000	GND	N	10.0	-6.6	63.2
0.266	51.1	1000.	9.000	GND	N	10.0	-10.1	61.2
11.654	45.1	1000.	9.000	GND	N	10.2	-14.9	60.0
20.122	47.1	1000.	9.000	GND	N	10.4	-12.9	60.0
27.050	46.0	1000.	9.000	GND	N	10.4	-14.0	60.0
Frequency	CAverage	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
0.150	55.2	1000.	9.000	GND	N	10.0	-0.8	56.0
0.210	50.8	1000.	9.000	GND	N	10.0	-2.4	53.2
0.266	46.6	1000.	9.000	GND	N	10.0	-4.6	51.2
11.654	35.5	1000.	9.000	GND	N	10.2	-14.5	50.0
20.122	38.2	1000.	9.000	GND	N	10.4	-11.8	50.0
27.050	24.0	1000.	9.000	GND	N	10.4	-26.0	50.0



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Tested Wire: Live Operation Mode: the lowest power

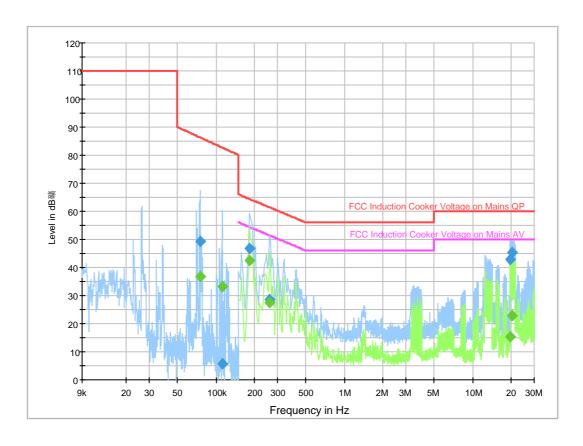


Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
(1411 12)	(αΒμν)	(ms)	(KI 12)			(ub)	(ub)	(αΒμν)
0.178	42.4	1000.	9.000	GND	L1	10.0	-22.2	64.6
1.710	21.7	1000.	9.000	GND	L1	10.0	-34.3	56.0
12.122	22.1	1000.	9.000	GND	L1	10.2	-37.9	60.0
13.814	35.2	1000.	9.000	GND	L1	10.3	-24.8	60.0
21.054	45.4	1000.	9.000	GND	L1	10.4	-14.6	60.0
26.382	33.6	1000.	9.000	GND	L1	10.4	-26.4	60.0
Frequency	CAverage	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
0.178	38.2	1000.	9.000	GND	L1	10.0	-16.3	54.6
1.710	20.9	1000.	9.000	GND	L1	10.0	-25.1	46.0
12.122	29.0	1000.	9.000	GND	L1	10.2	-21.0	50.0
13.814	17.5	1000.	9.000	GND	L1	10.3	-32.5	50.0
21.054	30.2	1000.	9.000	GND	L1	10.4	-19.8	50.0
26.382	22.1	1000.	9.000	GND	L1	10.4	-27.9	50.0



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Tested Wire: Neutral Operation Mode: the lowest power



Frequency (MHz)	QuasiPeak (dB礦)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB礦)
0.075	49.2	1000.0	0.200	GND	N	10.0	-37.1	86.3
0.111	5.9	1000.0	0.200	GND	N	10.0	-76.9	82.7
0.182	46.8	1000.0	9.000	GND	N	10.0	-17.6	64.4
0.262	28.5	1000.0	9.000	GND	N	10.0	-32.9	61.4
19.466	43.0	1000.0	9.000	GND	N	10.3	-17.0	60.0
20.226	45.4	1000.0	9.000	GND	N	10.4	-14.6	60.0
Frequency	CAverage	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
0.075	36.6	1000.0	0.200	GND	N	10.0	-	
0.111	33.3	1000.0	0.200	GND	N	10.0		
0.182	42.6	1000.0	9.000	GND	N	10.0	-11.7	54.4
0.262	27.5	1000.0	9.000	GND	N	10.0	-23.8	51.4
19.466	15.5	1000.0	9.000	GND	N	10.3	-34.5	50.0
20.226	22.8	1000.0	9.000	GND	N	10.4	-27.2	50.0



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5.1.5 Measurement Uncertainty

Uncertainty: 2.61 dB for frequency rang 9 kHz-150 kHz and 2.58 dB for frequency rang 150 kHz-30 MHz at a level of confidence of 95%.

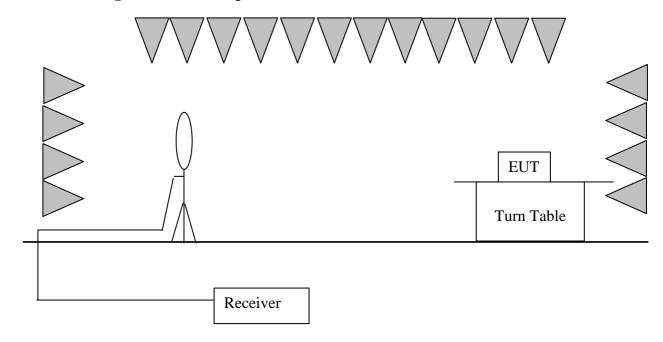
5.2 Radiated Emission(9kHz - 30 MHz)

Test Result: PASS

5.2.1 Used Test Equipment

Equipment No.	Equipment	Model	Manufacturer	Last Cal.	Due Date						
EE226	EMI Test Receiver	ESR3	Rohde & Schwarz	2016.5.17	2017.5.17						
EE249	EMI Test Receiver	ESR3	Rohde & Schwarz	2016.5.17	2017.5.17						
1029	Loop Antenna	PLA-1030/B	ARA	2016.5.29	2017.5.29						

5.2.2 Block Diagram of Test Setup





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5.2.3 Test Setup and Procedure

The measurement was applied in a semi-anechoic chamber. The EUT were placed on a 1 m high wooden turntable above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tripod.

Loop antenna was used as receiving antenna. The antenna was supported in the vertical plane and was rotatable about a vertical axis to obtain the maximum emission. The antenna height of was set at 2 m above ground level.

The bandwidth setting on Receiver was 9 kHz. The frequency range from 9 kHz to 30MHz was checked.

An initial pre-scan was performed in the 10m chamber using the spectrum analyzer in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a 0.6m loop antenna.

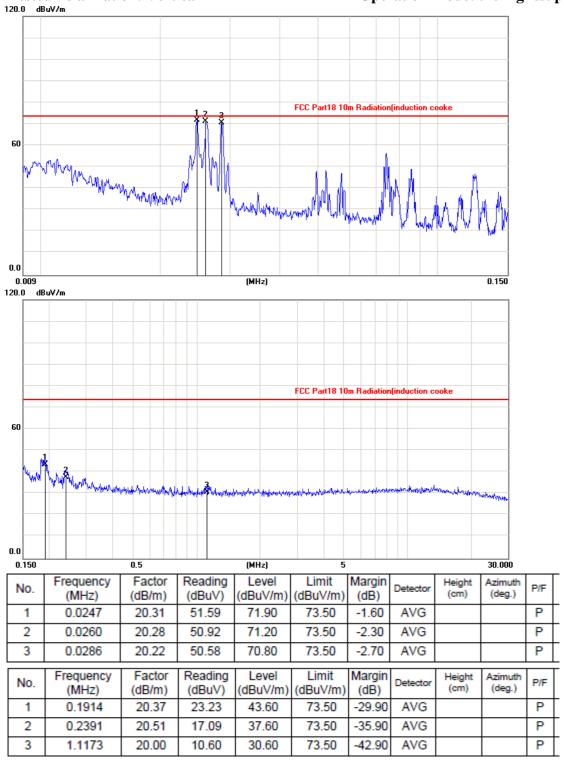


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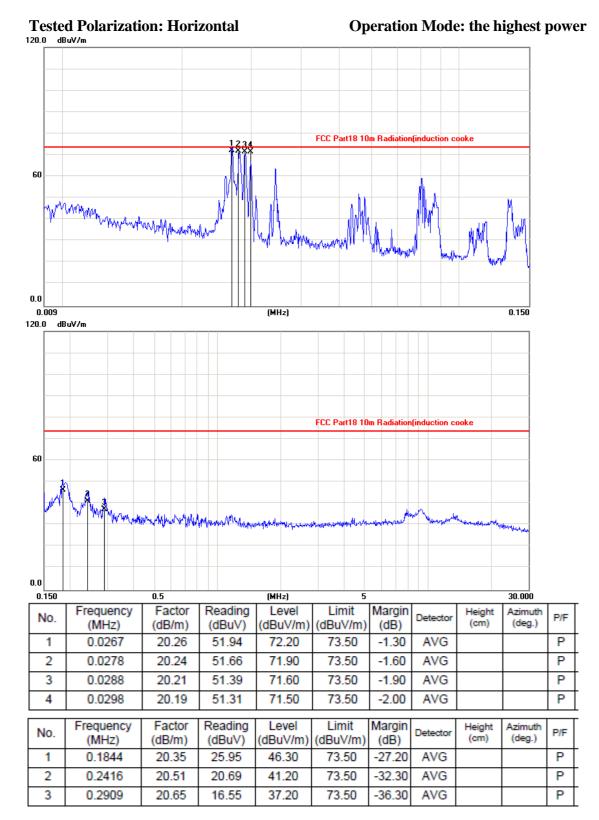
5.2.4 Test Data & Curve

Tested Polarization: Vertical

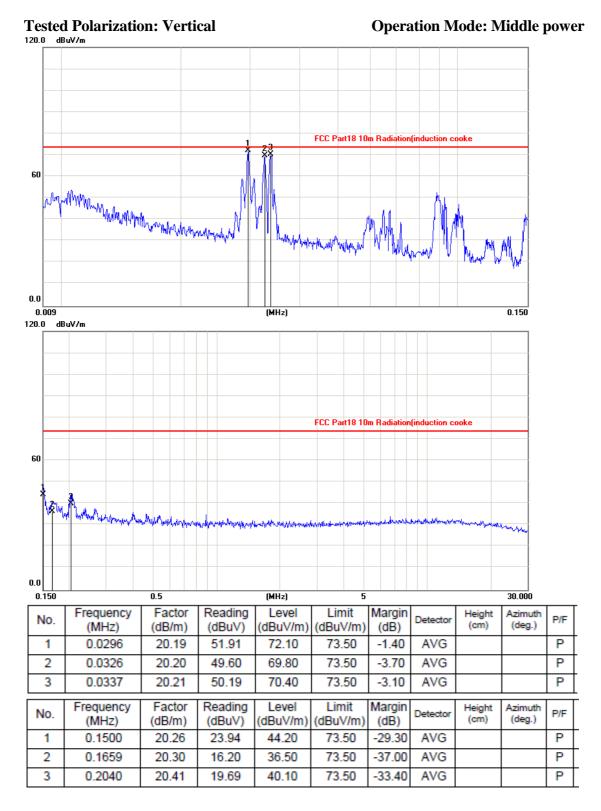
Operation Mode: the highest power



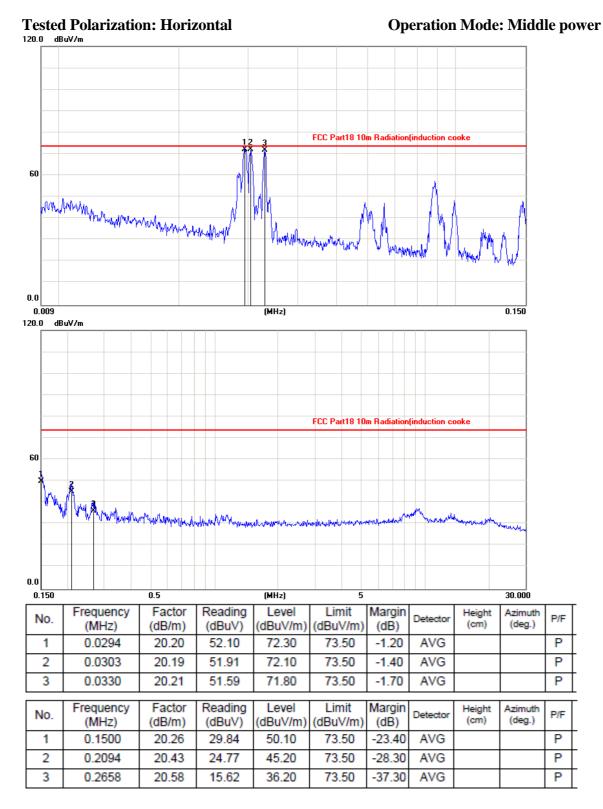




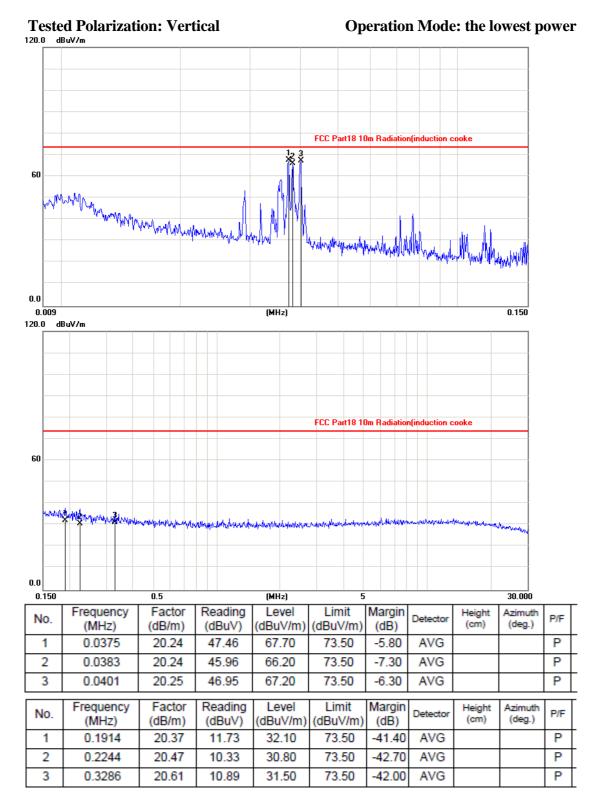










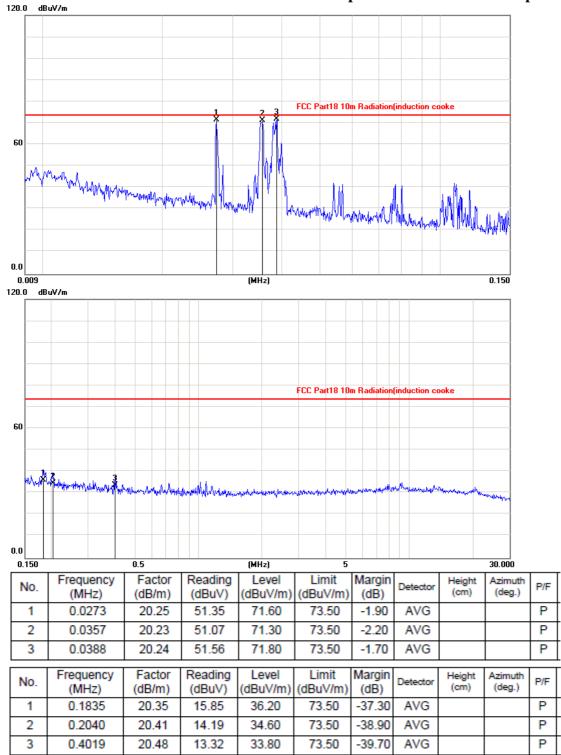




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Tested Polarization: Horizontal

Operation Mode: the lowest power





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5.2.5 Measurement uncertainty

The measurement uncertainty for magnetic field radiated emission test is under consideration.

5.3 Radiated Emission (30 MHz- 1 GHz)

Test Result: Pass

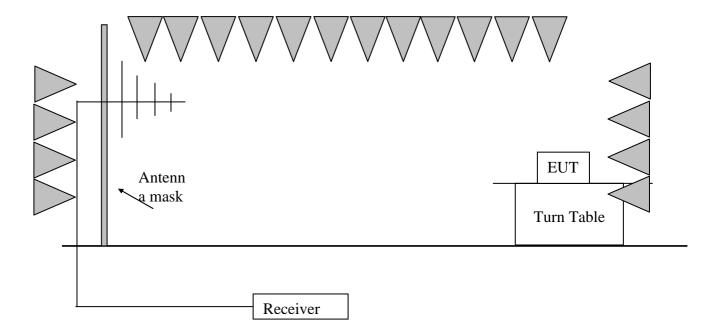
5.3.1 Used Test Equipment

Equip. No.	Equipment	Model	Manufacturer	Last Cal.	Due Date
CQCSC- EMC-001	Shielded Room	TDK	8*6*4	2016/03/17	2019/03/17
CQCSC- EMC-002	EMI Test receiver	R&S	ESU8	2016/03/17	2017/03/17
CQCSC- EMC-003	Biconical Broad Band Antenna	Schwarzbeck	SWB-VULB9163	2016/03/12	2019/03/12
CQCSC- EMC-005	Horn Antenna	R&S	HF907	2016/03/12	2019/03/12
CQCSC- EMC-006	Preamplifier	R&S	SCU-18	2016/03/17	2017/03/17
CQCSC- EMC-010	Shielded Room	TDK	8*6*4	2016/03/17	2019/03/17
CQCSC- EMC-011	Chamber	TDK	9*6*6	2016/03/17	2019/03/17



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5.3.2 Block Diagram of Test Setup



5.3.3 Test Setup and Procedure

The measurement was applied in a 3 m semi-anechoic chamber. The EUT and simulators were placed on a 1 m high wooden turntable above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mask. The antenna moved up and down between from 1 meter to 4 meters to find out the maximum emission level.

Broadband antenna was used as receiving antenna. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC OST/ MP-5:1986 requirement during radiated test. The bandwidth setting on Test Receiver was 120 kHz. The frequency range from 30 MHz to 1 GHz was checked.

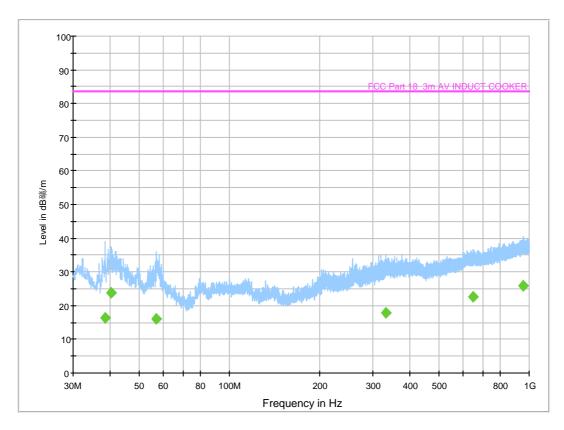
An initial pre-scan was performed in the 3m chamber using the spectrum analyzer in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph.



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5.3.4 Test Data & Curve

Tested Polarization: Vertical Operation Mode: the highest power



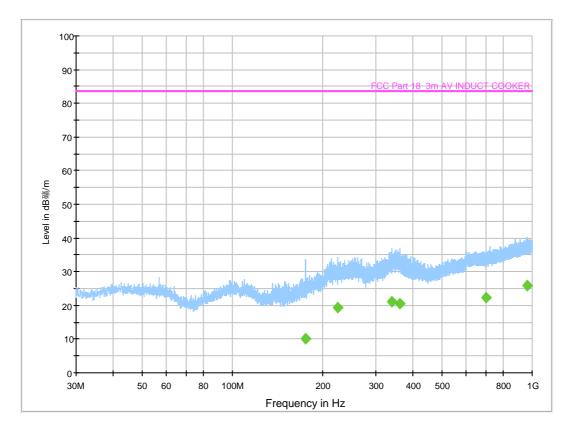
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
38.342	16.2	1000.0	120.000	99.9	V	13.7	-67.3	83.5
40.331	23.8	1000.0	120.000	99.9	٧	14.1	-59.7	83.5
57.063	16.1	1000.0	120.000	99.9	٧	13.5	-67.4	83.5
332.543	17.8	1000.0	120.000	150.0	٧	15.7	-65.7	83.5
651.867	22.5	1000.0	120.000	99.9	٧	21.4	-61.0	83.5
952.616	25.8	1000.0	120.000	99.9	V	24.8	-57.7	83.5



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Tested Polarization: Horizontal

Operation Mode: the highest power



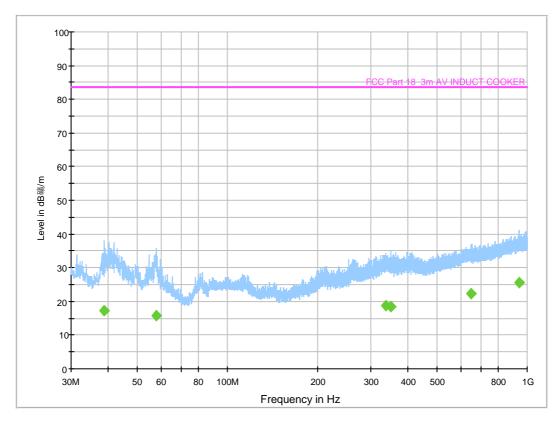
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
174.870	10.0	1000.0	120.000	99.9	Н	10.6	-73.5	83.5
223.952	19.4	1000.0	120.000	99.9	Н	12.8	-64.1	83.5
339.430	21.1	1000.0	120.000	99.9	Н	16.0	-62.4	83.5
361.449	20.6	1000.0	120.000	99.9	Н	16.4	-62.9	83.5
701.434	22.5	1000.0	120.000	99.9	Н	21.7	-61.0	83.5
962.025	25.7	1000.0	120.000	99.9	Н	24.9	-57.8	83.5



Issued: 2016-9-29

Tested Polarization: Vertical

Operation Mode: Middle power



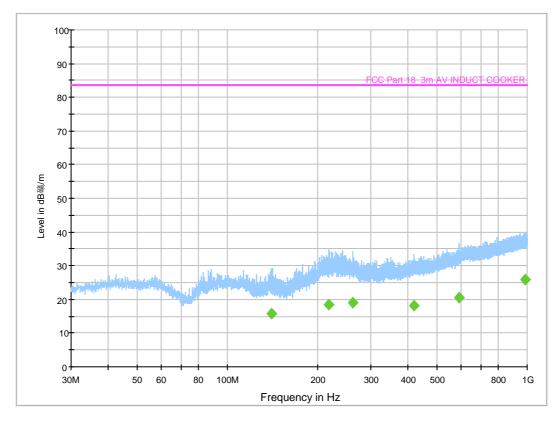
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
38.827	17.2	1000.0	120.000	99.9	٧	13.8	-66.3	83.5
57.597	15.6	1000.0	120.000	150.1	٧	13.5	-67.9	83.5
337.102	18.7	1000.0	120.000	99.9	٧	15.9	-64.8	83.5
349.906	18.4	1000.0	120.000	150.1	٧	16.2	-65.1	83.5
651.431	22.5	1000.0	120.000	99.9	٧	21.4	-61.0	83.5
939.812	25.5	1000.0	120.000	99.9	٧	24.7	-58.0	83.5



Issued: 2016-9-29

Tested Polarization: Horizontal

Operation Mode: Middle power



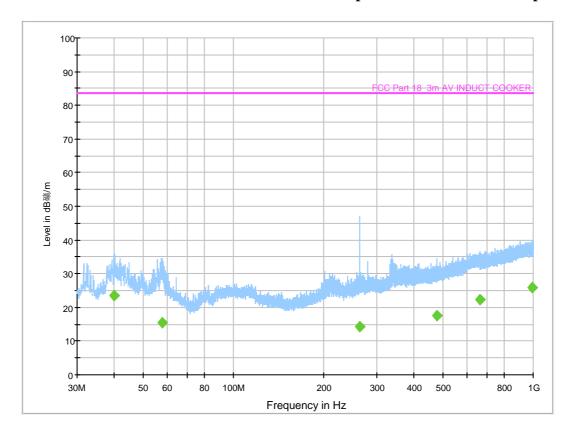
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
140.241	15.8	1000.0	120.000	150.0	Н	9.3	-67.7	83.5
217.210	18.4	1000.0	120.000	150.0	Н	12.6	-65.1	83.5
261.636	19.0	1000.0	120.000	150.0	Н	13.7	-64.5	83.5
417.224	18.3	1000.0	120.000	150.0	Н	17.5	-65.2	83.5
591.533	20.5	1000.0	120.000	150.0	Н	20.9	-63.0	83.5
986.663	26.0	1000.0	120.000	150.0	Н	25.1	-57.5	83.5



Issued: 2016-9-29

Tested Polarization: Vertical

Operation Mode: the lowest power

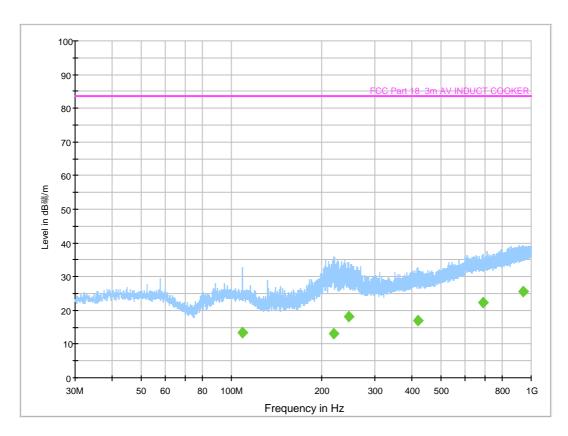


Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
40.040	23.5	1000.0	120.000	100.0	٧	14.1	-60.0	83.5
57.888	15.5	1000.0	120.000	150.0	٧	13.4	-68.0	83.5
264.207	14.2	1000.0	120.000	100.0	٧	13.8	-69.3	83.5
475.618	17.6	1000.0	120.000	150.0	٧	18.2	-65.9	83.5
664.817	22.3	1000.0	120.000	100.0	٧	21.4	-61.2	83.5
995.441	26.0	1000.0	120.000	100.0	V	25.1	-57.5	83.5



Issued: 2016-9-29

Tested Polarization: Horizontal Operation Mode: the lowest power



Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
108.522	13.5	1000.0	120.000	150.0	Н	13.4	-70.0	83.5
219.926	13.0	1000.0	120.000	150.0	Н	12.7	-70.5	83.5
246.262	18.3	1000.0	120.000	150.0	Н	13.6	-65.2	83.5
418.146	17.0	1000.0	120.000	150.0	Н	17.6	-66.5	83.5
690.570	22.3	1000.0	120.000	150.0	Н	21.6	-61.2	83.5
942.576	25.6	1000.0	120.000	150.0	Н	24.8	-57.9	83.5

5.3.5 Measurement uncertainty

Uncertainty: 4.54 dB in the frequency range of 30-1000 MHz at a level of confidence of 95%