

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-BBBC01, C74E-BBBC02

Electrical Rating : AC 240V~ 60Hz, 7400W FCC ID : ZFB- C74E- BBBC01

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-BBBC01, C74E-BBBC02.

We tested the Induction Cooktop, Model: C74E-BBBC01, C74E-BBBC02, 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-BBBC01, C74E-BBBC02 are Induction Hotplates for household use.

Model C74E-BBBC01, C74E-BBBC02 are the same except the model name.

According to above information, all the tests are performed on C74E-BBBC01,

#### 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-BBBC01

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 were conducted on 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

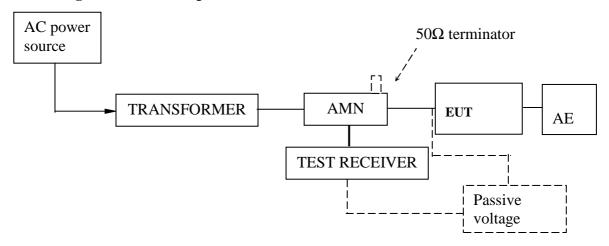
The highest power were conducted on below Equipment:

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  $50\Omega$  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.

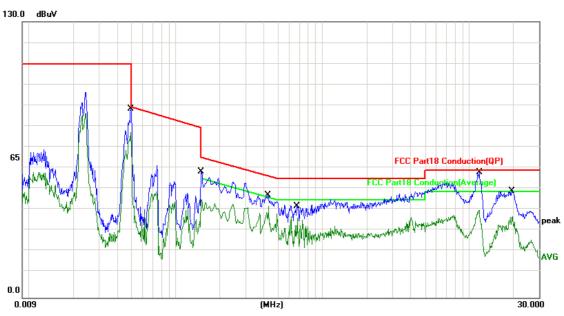


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#### 5.1.4 Test Data & Curve

### At main terminal: Pass

Tested Wire: Live Operation Mode: the highest power



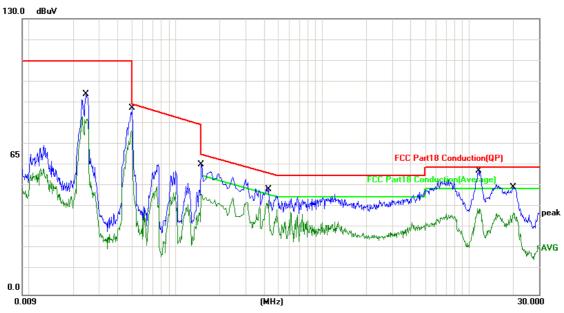
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.0498	9.99	69.70	79.69	110.00	-30.31	QP	Р
2	0.1500	10.00	46.90	56.90	65.99	-9.09	QP	Р
3	0.1500	10.00	37.50	47.50	55.99	-8.49	AVG	Р
4	0.4200	10.02	40.30	50.32	57.45	-7.13	QP	Р
5	0.4200	10.02	34.20	44.22	47.45	-3.23	AVG	Р
6	0.6700	10.03	31.60	41.63	56.00	-14.37	QP	Р
7	0.6700	10.03	28.50	38.53	46.00	-7.47	AVG	Р
8	11.7100	10.20	42.70	52.90	60.00	-7.10	QP	Р
9	11.7100	10.20	29.90	40.10	50.00	-9.90	AVG	Р
10	19.5500	10.29	34.50	44.79	60.00	-15.21	QP	Р
11	19.5500	10.29	24.70	34.99	50.00	-15.01	AVG	Р



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### **Tested Wire: Neutral**

## Operation Mode: the highest power

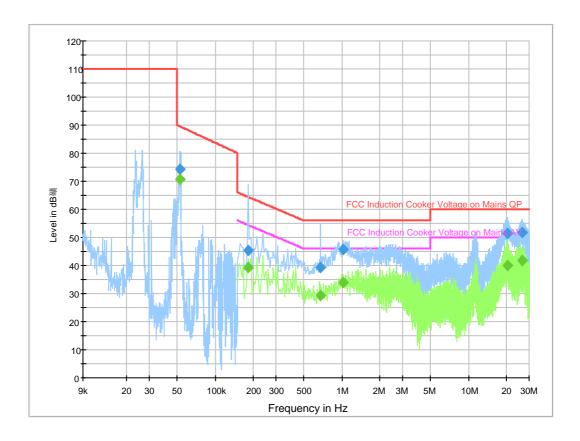


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.0246	9.97	74.60	84.57	110.00	-25.43	QP	Р
2	0.0507	9.99	68.90	78.89	89.87	-10.98	QP	Р
3	0.1500	10.00	48.50	58.50	65.99	-7.49	QP	Р
4	0.1500	10.00	36.80	46.80	55.99	-9.19	AVG	Р
5	0.4300	10.02	40.50	50.52	57.25	-6.73	QP	Р
6	0.4300	10.02	33.40	43.42	47.25	-3.83	AVG	Р
7	11.7000	10.20	42.60	52.80	60.00	-7.20	QP	Р
8	11.7000	10.20	29.70	39.90	50.00	-10.10	AVG	Р
9	20.1150	10.29	36.50	46.79	60.00	-13.21	QP	Р
10	20.1150	10.29	28.40	38.69	50.00	-11.31	AVG	Р



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## Tested Wire: Live Operation Mode: Middle power

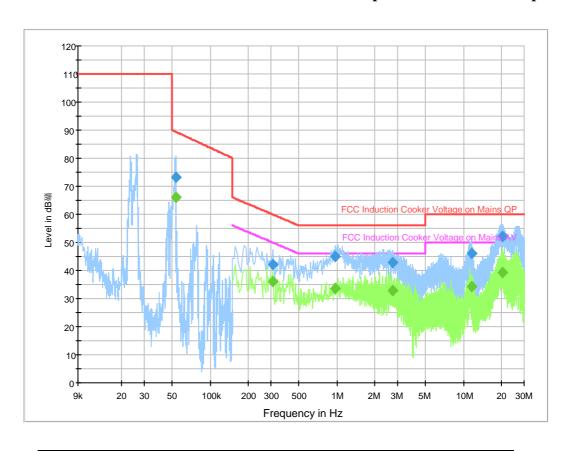


Frequency	QuasiPeak	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
		(ms)						
0.052920	74.3	1000.	0.200	GN	L1	10.0	-15.2	89.5
0.182000	45.3	1000.	9.000	GN	L1	10.0	-19.1	64.4
0.674000	39.4	1000.	9.000	GN	L1	10.0	-16.6	56.0
1.026000	45.8	1000.	9.000	GN	L1	10.0	-10.2	56.0
20.378000	51.5	1000.	9.000	GN	L1	10.4	-8.5	60.0
26.450000	51.8	1000.	9.000	GN	L1	10.4	-8.2	60.0
Frequency	CAverage	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
0.052920	70.8	1000.	0.200	GN	L1	10.0		-
0.182000	39.4	1000.	9.000	GN	L1	10.0	-15.0	54.4
0.674000	29.1	1000.	9.000	GN	L1	10.0	-16.9	46.0
1.026000	34.0	1000.	9.000	GN	L1	10.0	-12.0	46.0
20.378000	40.1	1000.	9.000	GN	L1	10.4	-9.9	50.0
26.450000	41.7	1000.	9.000	GN	L1	10.4	-8.3	50.0



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Tested Wire: Neutral Operation Mode: Middle power

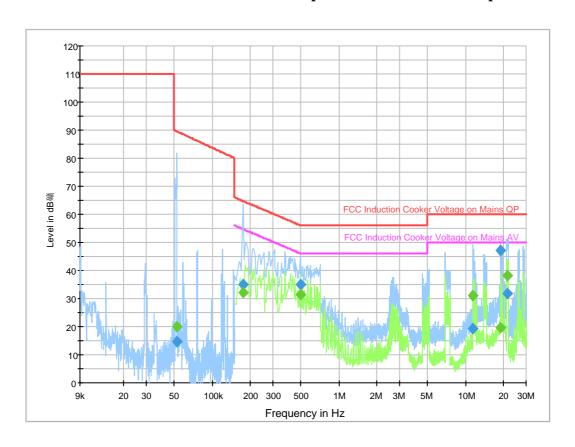


Frequency	QuasiPeak	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time (ms)	(kHz)			(dB)	(dB)	(dBµV)
0.053	73.2	1000.	0.200	GN	N	10.0	-16.2	89.4
0.314	42.1	1000.	9.000	GN	N	10.0	-17.7	59.9
0.974	45.1	1000.	9.000	GN	N	10.0	-10.9	56.0
2.754	42.8	1000.	9.000	GN	N	10.1	-13.2	56.0
11.494	45.9	1000.	9.000	GN	N	10.2	-14.1	60.0
20.050	52.0	1000.	9.000	GN	N	10.4	-8.0	60.0
Frequency	CAverage	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
0.053	66.2	1000.	0.200	GN	N	10.0		
0.314	36.1	1000.	9.000	GN	N	10.0	-13.8	49.9
0.974	33.6	1000.	9.000	GN	N	10.0	-12.4	46.0
2.754	32.7	1000.	9.000	GN	N	10.1	-13.3	46.0
11.494	34.3	1000.	9.000	GN	N	10.2	-15.7	50.0
20.050	39.3	1000.	9.000	GN	N	10.4	-10.7	50.0



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## Tested Wire: Live Operation Mode: the lowest power

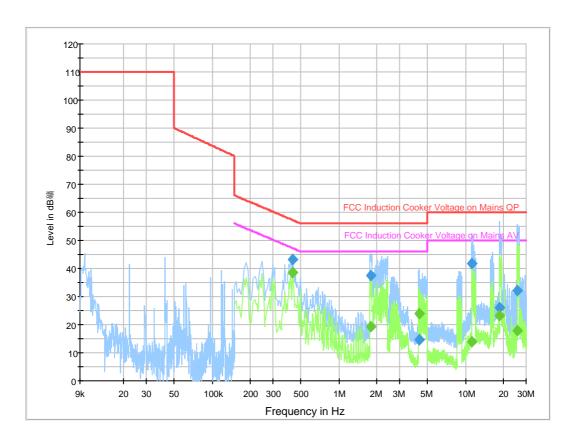


Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
` ′	` ' '	(ms)	` ′			,	, ,	` ' /
0.052600	14.6	1000.	0.200	GN	L1	10.0	-74.9	89.5
0.174000	34.8	1000.	9.000	GN	L1	10.0	-29.9	64.8
0.494000	35.1	1000.	9.000	GN	L1	10.0	-21.0	56.1
11.458000	19.4	1000.	9.000	GN	L1	10.2	-40.6	60.0
18.726000	47.2	1000.	9.000	GN	L1	10.3	-12.8	60.0
21.358000	31.6	1000.	9.000	GN	L1	10.4	-28.4	60.0
Frequency	CAverage	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
0.052600	20.1	1000.	0.200	GN	L1	10.0		
0.174000	32.2	1000.	9.000	GN	L1	10.0	-22.5	54.8
0.494000	31.3	1000.	9.000	GN	L1	10.0	-14.8	46.1
11.458000	31.2	1000.	9.000	GN	L1	10.2	-18.8	50.0
18.726000	19.8	1000.	9.000	GN	L1	10.3	-30.2	50.0
21.358000	38.2	1000.	9.000	GN	L1	10.4	-11.8	50.0



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## Tested Wire: Neutral Operation Mode: the lowest power



Frequency	QuasiPeak	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time (ms)	(kHz)			(dB)	(dB)	(dBµV)
0.434	43.3	1000.	9.000	GN	N	10.0	-13.8	57.2
1.778	37.6	1000.	9.000	GN	N	10.0	-18.4	56.0
4.306	14.7	1000.	9.000	GN	N	10.1	-41.3	56.0
11.226	41.7	1000.	9.000	GN	N	10.2	-18.3	60.0
18.382	26.1	1000.	9.000	GN	N	10.3	-33.9	60.0
25.590	32.2	1000.	9.000	GN	N	10.4	-27.8	60.0
Frequency	CAverage	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit
0.434	38.5	1000.	9.000	GN	N	10.0	-8.6	47.2
1.778	19.4	1000.	9.000	GN	N	10.0	-26.6	46.0
4.306	23.9	1000.	9.000	GN	N	10.1	-22.1	46.0
11.226	13.8	1000.	9.000	GN	N	10.2	-36.2	50.0
18.382	23.2	1000.	9.000	GN	N	10.3	-26.8	50.0
25.590	18.0	1000.	9.000	GN	N	10.4	-32.0	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%.

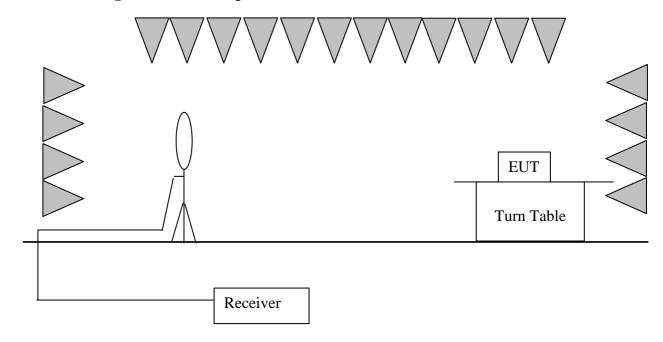
### 5.2 Radiated Emission(9kHz - 30 MHz)

**Test Result: PASS** 

5.2.1 Used Test Equipment

	The state of the s										
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.

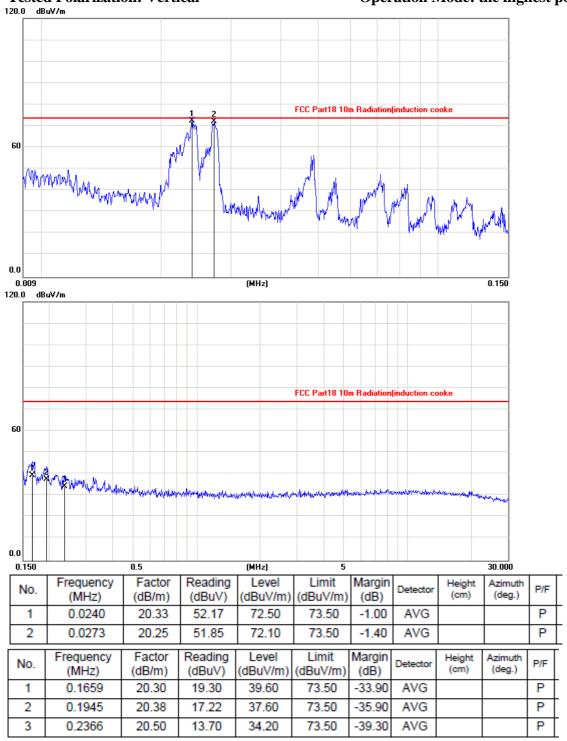


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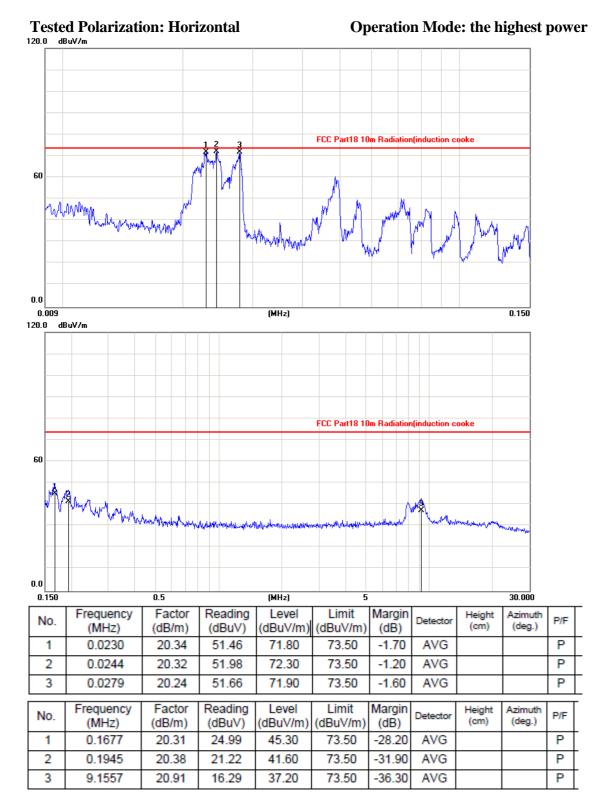
#### 5.2.4 Test Data & Curve

### **Tested Polarization: Vertical**

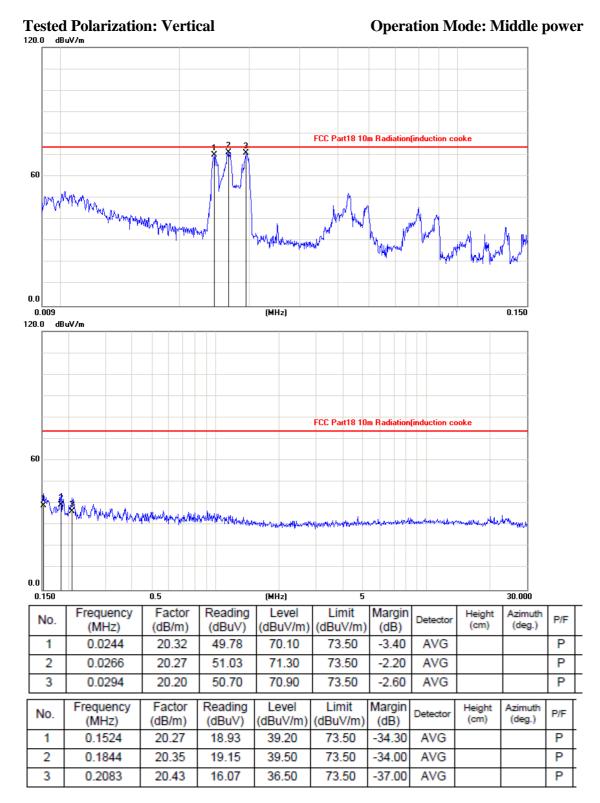
### **Operation Mode: the highest power**



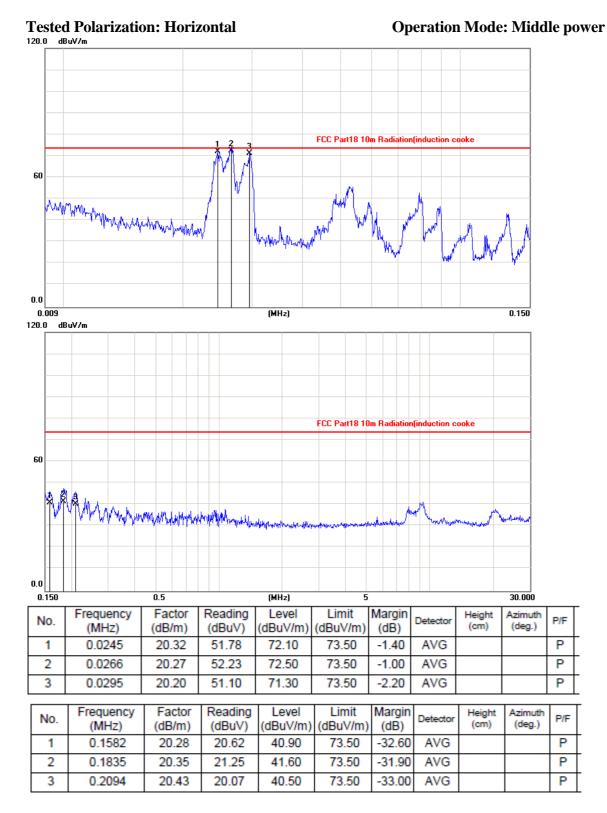




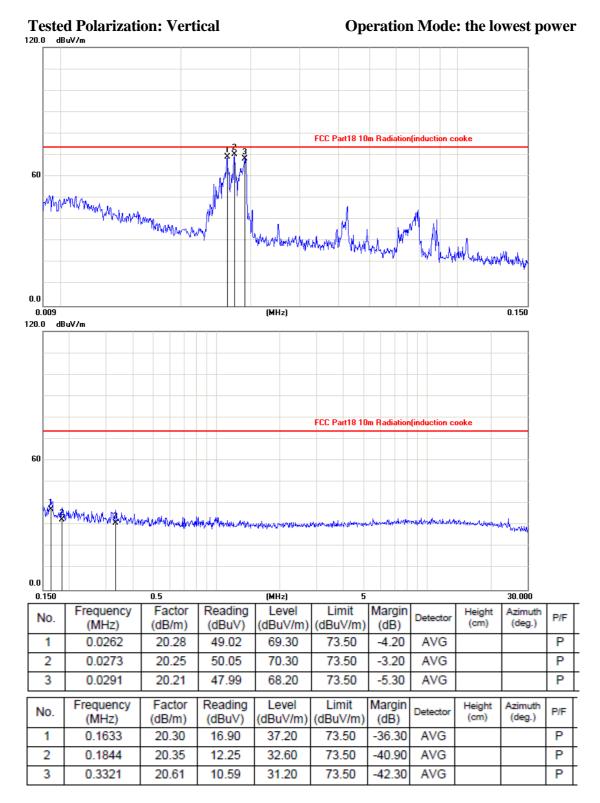






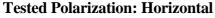




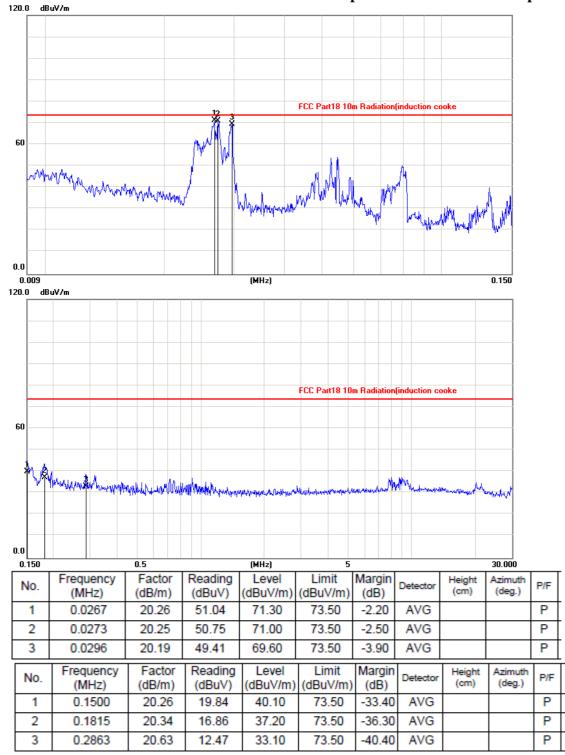




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### **Operation Mode: the lowest power**





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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** 

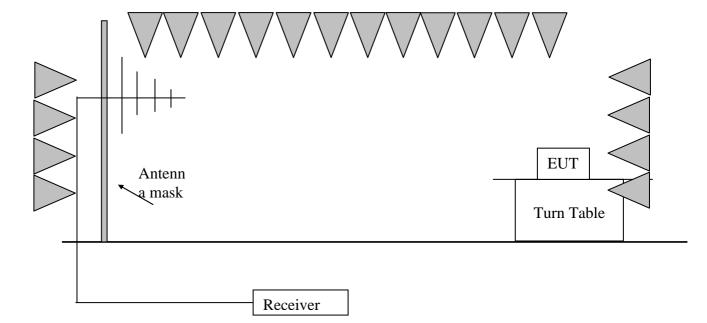
**5.3.1** Used Test Equipment

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.

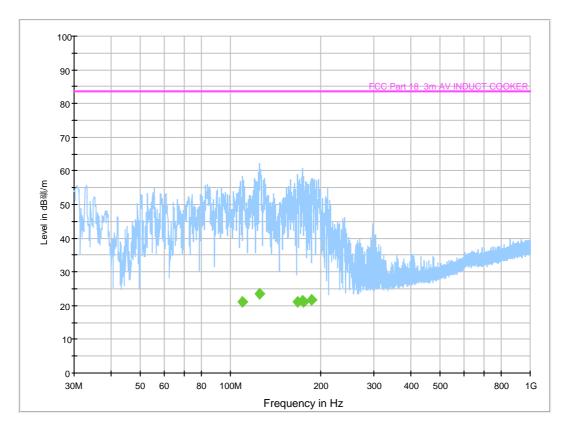
An initial pre-scan was performed in the 3m chamber using the spectrum analyzer in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph.



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#### 5.3.4 Test Data & Curve

Tested Polarization: Vertical Operation Mode: the highest power



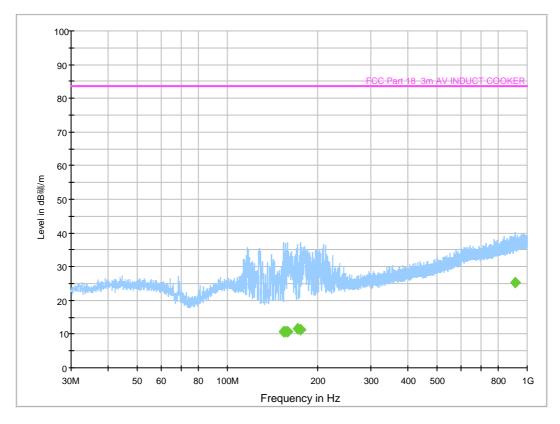
Frequency (MHz)	CAverage (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
109.589	21.1	1000.0	120.000	100.1	V	13.3	-62.4	83.5
124.672	23.4	1000.0	120.000	100.1	٧	10.8	-60.1	83.5
167.207	21.1	1000.0	120.000	150.0	٧	10.2	-62.4	83.5
173.318	21.4	1000.0	120.000	150.0	٧	10.5	-62.1	83.5
174.676	21.2	1000.0	120.000	150.0	٧	10.6	-62.3	83.5
186.704	21.6	1000.0	120.000	150.0	V	11.6	-61.9	83.5



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## **Tested Polarization: Horizontal**

## Operation Mode: the highest power



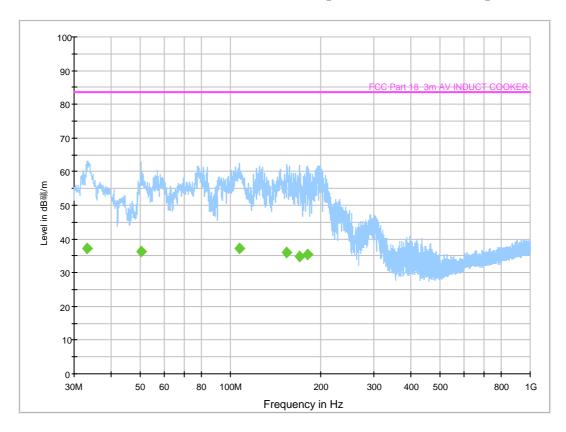
Frequency (MHz)	CAverage (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
153.530	10.8	1000.0	120.000	150.1	Н	9.6	-72.7	83.5
156.488	10.8	1000.0	120.000	150.1	Н	9.7	-72.7	83.5
158.380	10.7	1000.0	120.000	150.1	Н	9.8	-72.8	83.5
171.135	11.6	1000.0	120.000	150.1	Н	10.3	-71.9	83.5
175.791	11.2	1000.0	120.000	150.1	Н	10.7	-72.3	83.5
913.622	25.3	1000.0	120.000	99.9	Н	24.5	-58.2	83.5



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### **Tested Polarization: Vertical**

## **Operation Mode: Middle power**



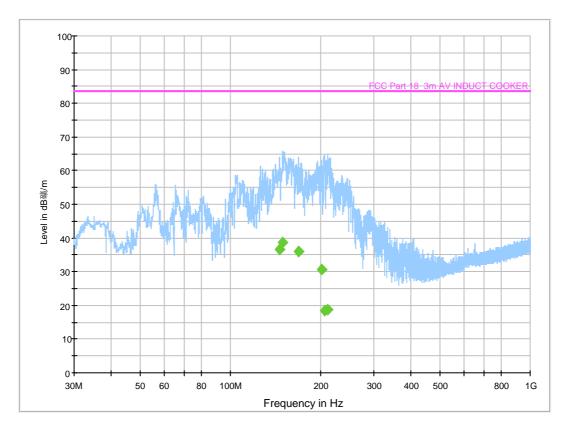
Frequency (MHz)	CAverage (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
33.201	37.1	1000.0	120.000	99.9	٧	12.7	-46.4	83.5
50.322	36.4	1000.0	120.000	150.0	٧	13.8	-47.1	83.5
106.727	37.2	1000.0	120.000	99.9	٧	13.5	-46.3	83.5
154.257	35.9	1000.0	120.000	150.0	٧	9.6	-47.6	83.5
169.729	34.9	1000.0	120.000	150.0	٧	10.2	-48.6	83.5
180.932	35.4	1000.0	120.000	150.0	٧	11.1	-48.1	83.5



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## **Tested Polarization: Horizontal**

## **Operation Mode: Middle power**



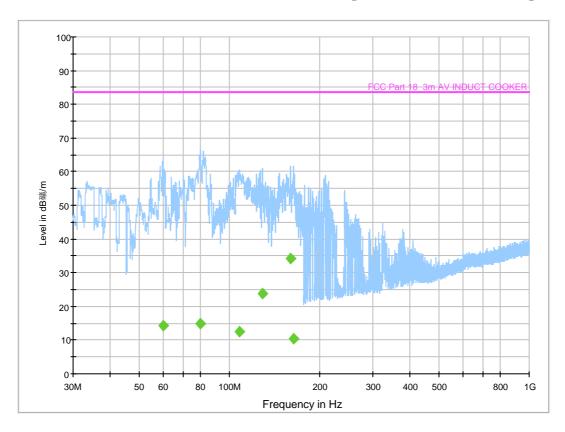
Frequency (MHz)	CAverage (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
145.770	36.7	1000.0	120.000	99.8	Н	9.4	-46.8	83.5
149.310	38.7	1000.0	120.000	99.8	Н	9.4	-44.8	83.5
168.759	35.9	1000.0	120.000	99.8	Н	10.2	-47.6	83.5
201.787	30.8	1000.0	120.000	99.8	Н	12.0	-52.7	83.5
205.376	18.6	1000.0	120.000	99.8	Н	12.1	-64.9	83.5
211.390	18.6	1000.0	120.000	99.8	Н	12.4	-64.9	83.5



Issued: 2016-9-29

### **Tested Polarization: Vertical**

## **Operation Mode: the lowest power**



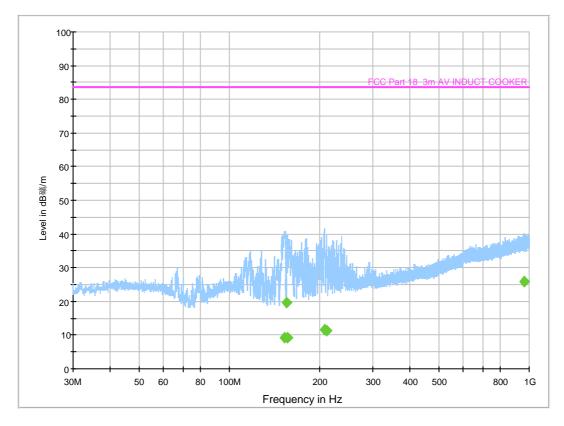
Frequency (MHz)	CAverage (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
59.876	14.2	1000.0	120.000	100.1	٧	13.3	-69.3	83.5
79.664	15.0	1000.0	120.000	100.1	٧	9.3	-68.5	83.5
108.037	12.4	1000.0	120.000	150.0	٧	13.4	-71.1	83.5
128.310	23.8	1000.0	120.000	100.1	٧	10.3	-59.7	83.5
159.932	34.3	1000.0	120.000	150.0	٧	9.9	-49.2	83.5
163.181	10.5	1000.0	120.000	150.0	V	10.0	-73.0	83.5



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### **Tested Polarization: Horizontal**

## **Operation Mode: the lowest power**



Frequency (MHz)	CAverage (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
152.948	9.1	1000.0	120.000	150.1	Н	9.6	-74.4	83.5
155.130	19.6	1000.0	120.000	150.1	Н	9.7	-63.9	83.5
156.343	9.1	1000.0	120.000	99.8	Н	9.7	-74.4	83.5
206.831	11.7	1000.0	120.000	150.1	Н	12.2	-71.8	83.5
210.760	11.4	1000.0	120.000	150.1	Н	12.4	-72.1	83.5
965.080	25.8	1000.0	120.000	99.8	Н	24.9	-57.7	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%