

VERIFICATION OF EMC COMPLIANCE

Verification No.: GZEM2005012177HSV
Applicant: Olansi Healthcare Co., Ltd.
Address of Applicant: 1 Haiyi street, Lanhe town, Nansha, Guangzhou, Guangdong,
China
Manufacturer: The same as Applicant
Address of Manufacturer: The same as Applicant
Factory: The same as Applicant
Address of Factory: The same as Applicant
Product Description: Air Purifier
Model No.: KJ488FK08D, KJ488FK08E, KJ488FK08A
Trade Mark: OLS
Sufficient samples of the product have been tested and found to be in conformity with
Test Standard(s): EN 55014-1:2017
EN 55014-2:2015
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019
As shown in the
Test Report Number(s): GZEM180800458104

This verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards under Directive 2014/30/EU.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Kobe Jian
EMC Laboratory Manager



Date: 2020-06-06



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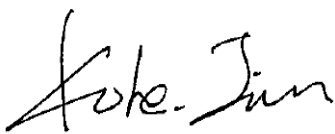
TEST REPORT

Application No.: GZEM2005012177HS
Applicant: Olansi Healthcare Co., Ltd.
Address of Applicant: 1 Haiyi street, Lanhe town, Nansha, Guangzhou, Guangdong, China
Manufacturer: The same as Applicant
Address of Manufacturer: The same as Applicant
Factory: The same as Applicant
Address of Factory: The same as Applicant
Equipment Under Test (EUT):
EUT Name: Air Purifier
Model No.: KJ488FK08D, KJ488FK08E, KJ488FK08A. ☐
☐ Please refer to section 2 of this report for details.
Trade Mark: OLS
Standards: EN 55014-1:2017
EN 55014-2:2015
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019
Date of Receipt: 2018-08-08
Date of Test: 2018-08-27 to 2018-09-05
Date of Issue: 2018-09-19 (for the report GZEM180800458101)
2020-06-06 (for the report GZEM180800458104)

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

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.





Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2018-09-19		Original
01		2020-06-06		Copy report: updated standards and changed the name & address of Applicant & Manufacturer & Factory.

Authorized for issue by:			
Tested By			
	Owen Huang /Project Engineer	2018-08-27 to 2018-09-05	Date
Checked By			
	Cherie Luo /Reviewer	2020-05-18	Date



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Disturbance at Mains Terminals (150kHz-30MHz)	EN 55014-1:2017	CISPR 16-2-1	N/A	Pass**
Disturbance Power	EN 55014-1:2017	CISPR 16-2-2	N/A	Pass
Discontinuous Disturbance (150kHz-30MHz)	EN 55014-1:2017	EN 55014-1:2017	N/A	Pass*
Harmonic Current Emission	EN IEC 61000-3-2: 2019	EN IEC 61000-3-2: 2019	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3:2013 +A1:2019	EN 61000-3-3:2013 +A1:2019	Clause 5 of EN 61000-3-3	Pass

N/A: Not applicable

* Please refer to Section 6.3 of this report for details.

** The KJ488FK08A passed Conducted Disturbance at Mains Terminals (150kHz-30MHz) test after modification.



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Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 55014-2:2015	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port and Signal lines	EN 55014-2:2015	EN 61000-4-4:2012	AC cable: ± 1.0 kV Signal lines: ± 0.5 kV 5/50ns Tr/Th 5kHz Repetition Frequency	Pass**
Surge at Power Port	EN 55014-2:2015	EN 61000-4-5:2014	1.2/50 μ s Tr/Th 1kV Line to Line 2kV Line to Ground	Pass
Conducted Immunity at Power Port and Signal lines(150kHz-230MHz)	EN 55014-2:2015	EN 61000-4-6:2014	AC: 3V r.m.s (emf), Signal lines: 1V r.m.s (emf), 80%, 1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions	EN 55014-2:2015	EN 61000-4-11:2004	0 % UT for 0.5per 40 % UT for 10per 70 % UT for 25per UT is Supply Voltage	Pass
			0 % UT for 0.5per 40 % UT for 12per 70 % UT for 30per UT is Supply Voltage	
Radiated Immunity (80MHz-1GHz)	EN 55014-2:2015	EN 61000-4-3:2006 +A1:2008+A2:2010	3V/m, 80%, 1kHz Amp. Mod.	Pass

** The KJ488FK08E passed Electrical Fast Transients/Burst at Power Port and Signal lines test after modification.



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Remark for the report GZEM180800458101

Model No.: KJ488FK08D, KJ488FK08E, KJ488FK08A.

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the control panel, rated power and outer decoration.

Model No.	Motor	Rated Power
KJ488FK08A	Motor 1	95W
KJ488FK08D	Motor 2	85W
KJ488FK08E		

Therefore full tests were performed on **KJ488FK08D, KJ488FK08E, and KJ488FK08A** in this report.

Remark for the report GZEM180800458104

This test report GZEM180800458104 was an additional report based on the original test report GZEM180800458101, just updated standards and changed the name & address of Applicant & Manufacturer & Factory.

1. Updated below standards:

Standards in original report	Standards in updated report
EN 61000-3-2:2014	EN IEC 61000-3-2:2019
EN 61000-3-3:2013	EN 61000-3-3:2013+A1:2019

Reviewed the updated standards, all the technical requirements for the product between original and the newest standards' versions are identical, therefore it's acceptable to update standard(s) without further testing.

2. Changed Name & Address of Applicant & Manufacturer & Factory:

Name & Address of Applicant & Manufacturer & Factory in original report	Name & Address of Applicant & Manufacturer & Factory in updated report
Guangzhou Olansi Water Treatment Equipments Ltd. 5F., Building C5, Gaosha Industry Zone, Zhongcun, Panyu, Guangzhou, China	Olansi Healthcare Co., Ltd. 1 Haiyi street, Lanhe town, Nansha, Guangzhou, Guangdong, China

Therefore original data was kept in this report GZEM180800458104.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 220-240V, 50/60Hz
Remote control:	DC 3V=1×3V lithium cell
Power:	KJ488FK08D:85W, KJ488FK08E:85W, KJ488FK08A: 95W
Test Voltage:	AC 230V, 50Hz
Cable:	2 wires about 1.2m unscreened AC mains cable

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Disturbance	3.63dB (9kHz to 150kHz)
		3.22dB (150kHz to 30MHz)
2	Disturbance Power	3.78dB
3	Radiated Disturbance	5.0dB (30MHz-1GHz)
		5.0dB (1GHz-6GHz)
4	Radiated Immunity	2.18dB
5	Conducted Immunity	3.5dB
6	ESD	6 %
7	EFT (Electrical Fast Transients)	4 %
8	Surge Immunity	6%
9	Voltage Dips and Interruptions	4 %
10	20 System	1.5dB
11	Temperature Test	0.4°C
12	Humidity Test	1.3%
13	DC power Test	0.5 %



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC (Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

- **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

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.: R-2460, C-2584, G-449 and T-1179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

The KJ488FK08A passed Conducted Disturbance at Mains Terminals (150kHz-30MHz) test after modification.

The KJ488FK08E passed Electrical Fast Transients/Burst at Power Port and Signal lines test after modification.

4.8 Monitoring of EUT for All Immunity Test

Visual: Motor running and LED displaying of the EUT.

Audio: N/A



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5 Equipment List

Conducted Disturbance at Mains Terminals (150kHz-30MHz)						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m ³	N/A	2016-12-27	2019-12-26
EMC0118	Two-line v-netwok	R&S	ENV216	100359	2018-01-19	2019-01-18
EMC2135	Two-line v-netwok	R&S	ENV216	102259	2017-09-22	2018-09-21
EMC0102	LISN	SCHAFFNER CHASE	MN2050D/1	1421	2017-09-20	2018-09-19
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	2017-11-27	2018-11-26
EMC0107	Coaxial Cable	SGS	2m	N/A	2017-07-23	2019-07-22
EMC0106	Voltage Probe	SGS	N/A	N/A	2018-04-04	2020-04-03
EMC2123	8 Line ISN Cat 6	SCHWARZBECK MESS-ELEKTRONIK	NTFM 8158	NTFM 8158 0151	2018-05-29	2019-05-29
EMC2124	8 Line ISN Cat 5	SCHWARZBECK MESS-ELEKTRONIK	CAT5 8158	CAT5 8158-188	2018-05-29	2019-05-29
EMC2126	8 Line ISN Cat 3	SCHWARZBECK MESS-ELEKTRONIK	CAT3 8158	CAT38158-0081	2018-05-29	2019-05-29
EMC2122	ISN S8	SCHWARZBECK MESS-ELEKTRONIK	ISN S8	57	2018-05-29	2019-05-29
EMC2121	ISN S1	SCHWARZBECK MESS-ELEKTRONIK	ISN S1	10	2018-05-29	2019-05-29
EMC2125	2 wires ISN	SCHWARZBECK MESS-ELEKTRONIK	NTFM 8131	8131-198	2018-05-29	2019-05-29
EMC2047	CDN	Elektronik- Feinmechanik	L-801:AF2	2793	2015-09-19	2018-09-18
EMC2048	CDN	Elektronik- Feinmechanik	L-801:M2/M3	2738	2015-09-25	2018-09-24
EMC2062	6dB Attenuator	HP	8491A	24487	2018-04-04	2020-04-03
EMC0167	Conical metal housing	SGS-EMC	N/A	N/A	2018-04-19	2020-04-18

Disturbance Power						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m ³	N/A	2016-12-27	2019-12-26
EMC2040	Absorbing Clamp	Beijing Dazhe Co. Ltd.	ZN23201	N/A	2018-01-11	2019-01-10
EMC0303	7m Coaxial Cable	SGS	7m	N/A	2017-6-30	2019-06-29
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	2017-11-27	2018-11-26
EMC2062	6dB Attenuator	HP	8491A	24487	2018-04-04	2020-04-03
EMC0305	Slide Bar Controller	HD-GmbH	HD50	050/490	N/A	N/A
EMC0103	Slide Bar RP	HD-GmbH	KMS560	560/392	N/A	N/A



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Harmonic Current Emission / Voltage Fluctuations and Flicker						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0608	AC Power Source	California	50001iX	56627	2018-03-19	2019-03-18
EMC0607	Power Analyzer	California	PACS	72400	2018-03-19	2019-03-18

Discontinuous Disturbance (150kHz-30MHz)						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC2049	Click Meter	AFJ	CL55C	55049840042	2018-06-13	2019-06-12
EMC0206	Coaxial Cable	N/A	1.5m	N/A	2016-09-20	2018-09-19
EMC0203	LISN	AFJ	LS16-OPT001	16019831056	2018-01-08	2019-01-07

Electrostatic Discharge						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC2071	ESD Simulator	TESEQ AG	NSG 435	6739	2018-03-07	2019-03-06
EMC0804	ESD Ground Plane	SGS	3m x 3m	N/A	N/A	N/A
EMC0078	Temperature, & Humidity	Shanghai Meteorological Instrument factory Co., Ltd.	ZJ1-2B	709131	2018-07-05	2019-07-04

Electrical Fast Transients/Burst at Power Port, Surge at Power Port and Voltage Dips and Interruptions						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC2059	Modular Impulse Surge Generator	EMC PARTNER	MIG0603EN	259	2018-01-08	2019-01-07
EMC2060	High speed signal Surge CDN	EMC PARTNER	CDN-UTP	CDN-UTP0089	2018-01-08	2019-01-07
EMC2072	EMC Immunity Test System	TESEQ AG	NSG 3060 CDN3061 INA 6502 CIB CDN3425	1580 1466 222	2018-01-08	2019-01-07
EMC2055	Oscilloscope 500MHz	Tektronix	TDS3052C	C011815	2018-01-08	2019-01-07



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Conducted Immunity at Power Port and Signal lines(150kHz-230MHz)						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC1101	Signal Generator	Rohde & Schwarz	SMY01	825675/016	2018-06-05	2019-06-05
EMC1102	Amplifier 0.15-230MHz	SCHAFFNER	GRF5048	1003	2018-06-05	2019-06-05
EMC1103	Power Meter	Rohde & Schwarz	NRVS	825770/079	2017-12-04	2018-12-03
EMC1105	Dual Directional coupler	Werlatone Inc.	C1795	6635	2018-06-01	2019-06-01
EMC2012	Oscilloscope	Tektronix	TDS 744A	N/A	2017-12-01	2018-11-30
EMC2048	CDN	Elektronik- Feinmechanik	L-801:M2/M3	2738	2015-09-25	2018-09-24
EMC1107	CDN M2	Schaffner Chase	CDN-M2-16	9863	2017-10-26	2020-10-25
EMC1116	Current Probe	Schaffner Chase	CIP9136	1155	2017-10-26	2020-10-25
EMC1117	Current Probe	Schaffner Chase	CSP8445	18	2017-10-26	2020-10-25

Radiated Immunity (80MHz-1GHz)						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0525	Compact 3m Semi- Anechoic Chamber	Changzhou zhongyu	N/A	N/A	2016-12-04	2019-12-03
EMC2055	Oscilloscope	Tektronix	TDS3052C	C011815	2018-01-08	2019-01-07
EMC0909	Monitor System	Mitsubish Corp.	M-0552AB	91510185	N/A	N/A
EMC2089	Laser probe Interface	RF Microwave Instrumentation	FI7000	0344429	N/A	N/A
EMC2090	Open Switch and control unit	R&S	OSP130	100858	N/A	N/A
EMC2091	Broadband Amplifier (80M~1GHZ/250W)	R&S	BBA150	102036	2018-01-08	2019-01-07
EMC2092	Broadband Amplifier (800M~3GHZ/110W)	R&S	BBA150	102047	2018-01-08	2019-01-07
EMC2093	Signal Generator	R&S	SMB100A	113083	2018-01-08	2019-01-07
EMC2094	Laser probe	RF Microwave Instrumentation	FL7006	0345061	2018-03-13	2019-03-12
EMC2095	NRP-Z91 Power Sensor 6GHZ	R&S	NPR-Z91	103354	2018-01-08	2019-01-07
EMC2096	NRP-Z91 Power Sensor 6GHZ	R&S	NPR-Z91	103355	2018-01-08	2019-01-07
EMC2097	High-Gain Log-periodic Antenna	R&S	HL046E	100203	2016-02-15	2019-02-14
EMC2098	RI Cable	R&S	7m	N/A	2018-05-23	2019-05-22
SEM003- 21	Stacked Logarithmic- Periodic Broadband Antenna (0.7~9GHz)/300W	SCHWARZBECK MESS - ELEKTRONIK	STLP 9149	356	2015-09-18	2018-09-17
EMC2105	Broadband Amplifier (2.5~6GHZ/30W)	R&S	BBA150	102305	2017-09-19	2018-09-18



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General used equipment						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0006	DMM	Fluke	73	70681569	2018-07-26	2019-07-25
EMC0007	DMM	Fluke	73	70671122	2018-07-26	2019-07-25



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6 Emission Test Results

6.1 Conducted Disturbance at Mains Terminals (150kHz-30MHz)

Test Requirement:	EN 55014-1:2017
Test Method:	CISPR 16-2-1
Frequency Range:	150kHz to 30MHz
Limit:	
0.15MHz-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average
0.5MHz-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5MHz-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 150KHz to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

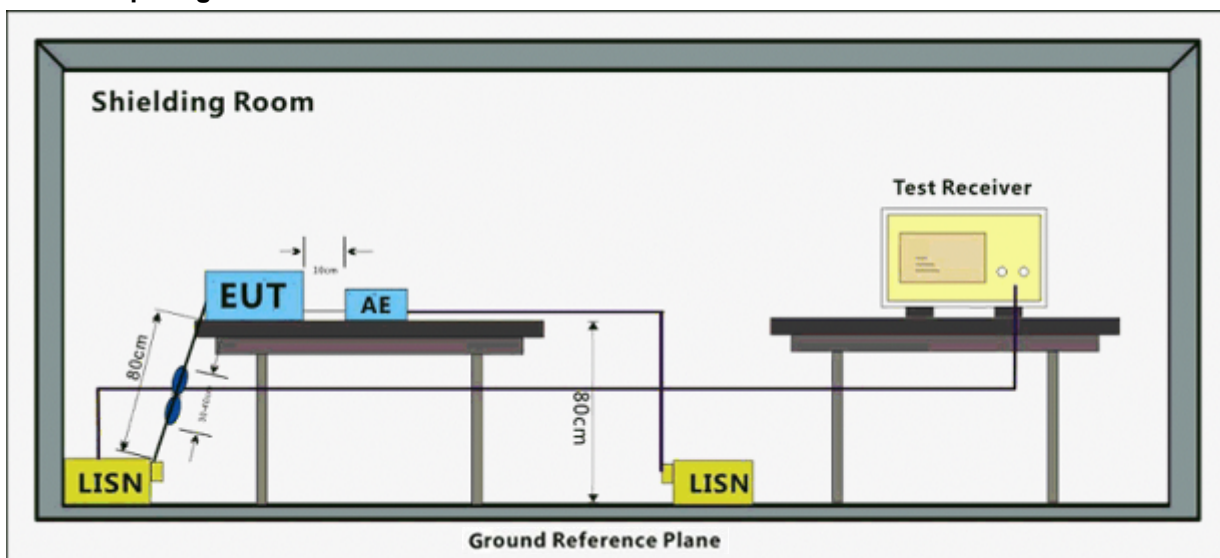
Pre-test these modes to find the worst case:

- a: Test the EUT in air purifying mode at maximum speed.
- b: Test the EUT in air purifying mode at medium speed.
- c: Test the EUT in air purifying mode at minimum speed.

The worst case for final test:

- a: Test the EUT in air purifying mode at maximum speed.

6.1.2 Test Setup Diagram



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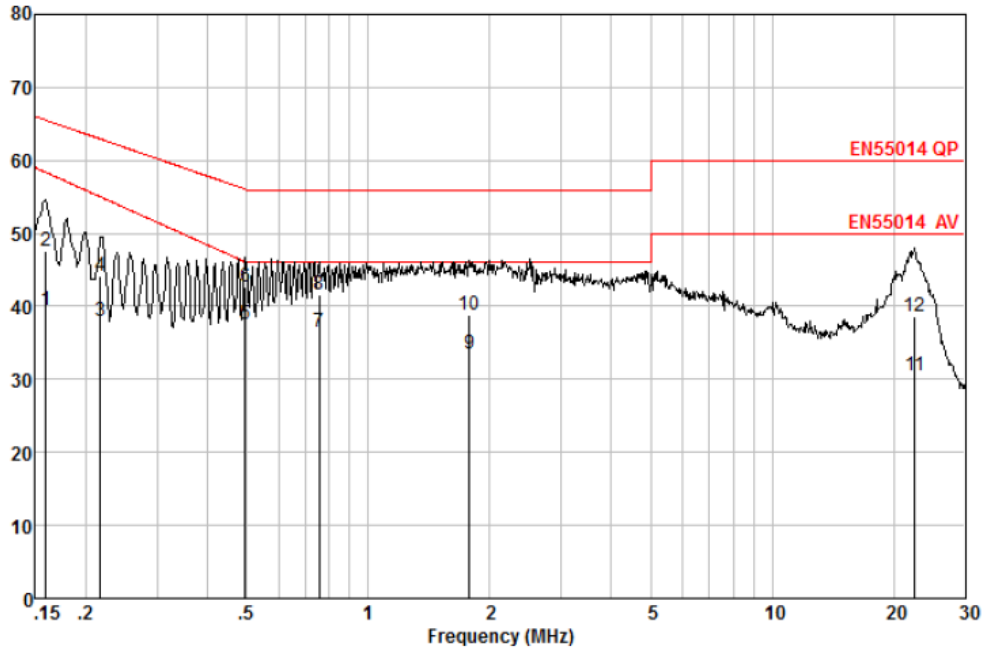
6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

For model KJ488FK08A

Live Line

Level (dBμV)



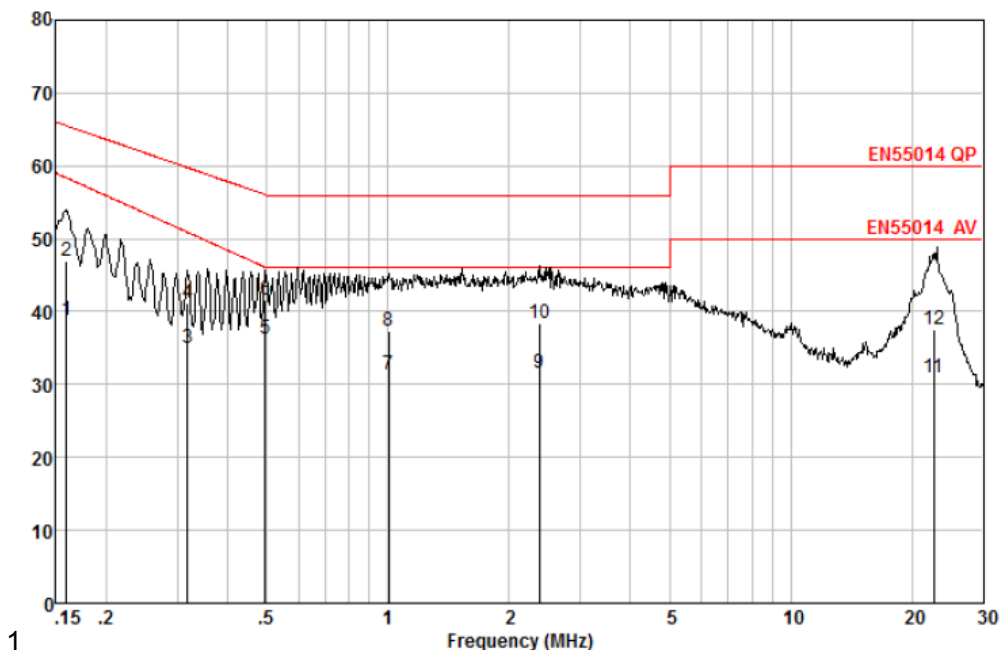
Read Freq	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dB	
0.159	29.71	9.65	0.00	58.37	-19.01	Average
0.159	37.92	9.65	0.00	65.52	-17.95	QP
0.217	28.23	9.64	0.00	55.00	-17.13	Average
0.217	34.61	9.64	0.00	62.92	-18.67	QP
0.497	27.86	9.64	0.01	46.07	-8.56	Average
0.497	33.01	9.64	0.01	56.05	-13.39	QP
0.755	26.89	9.65	0.01	46.00	-9.45	Average
0.755	31.97	9.65	0.01	56.00	-14.37	QP
1.781	23.69	9.66	0.04	46.00	-12.61	Average
1.781	29.13	9.66	0.04	56.00	-17.17	QP
22.535	20.09	10.13	0.30	50.00	-19.48	Average
22.535	28.21	10.13	0.30	60.00	-21.36	QP



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Neutral Line
Level (dB μ V)



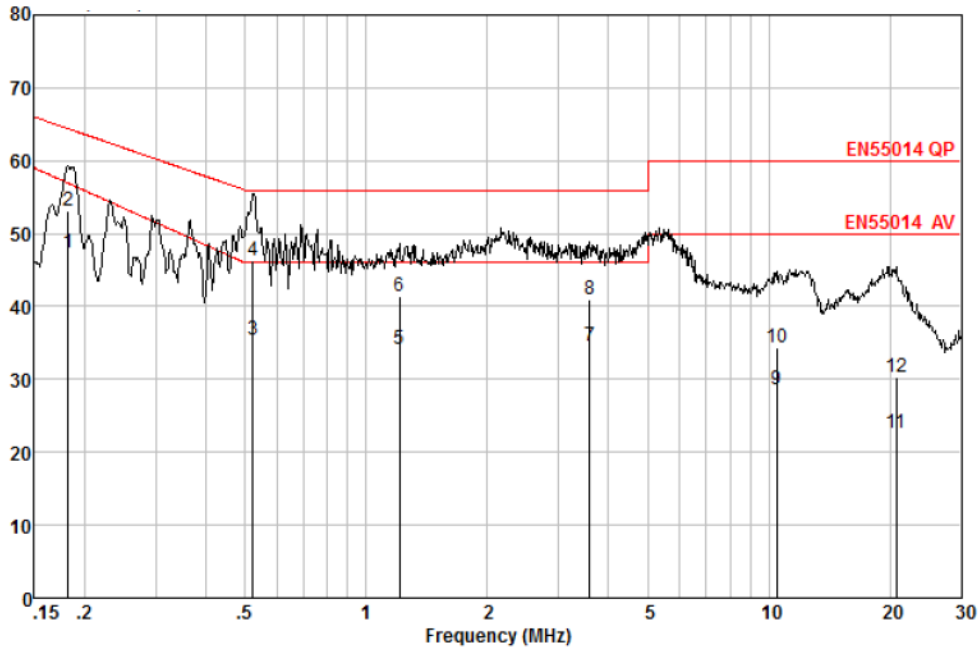
Freq	Read Level	LISN Factor	Cable Loss	Limit Level	Over Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.159	29.19	9.67	0.00	38.86	58.37	-19.51	Average
0.159	37.36	9.67	0.00	47.03	65.52	-18.49	QP
0.318	25.40	9.66	0.00	35.06	50.88	-15.82	Average
0.318	31.50	9.66	0.00	41.16	59.75	-18.59	QP
0.497	26.52	9.67	0.01	36.20	46.07	-9.87	Average
0.497	31.92	9.67	0.01	41.60	56.05	-14.45	QP
1.005	21.75	9.68	0.01	31.44	46.00	-14.56	Average
1.005	27.69	9.68	0.01	37.38	56.00	-18.62	QP
2.371	21.92	9.69	0.06	31.67	46.00	-14.33	Average
2.371	28.58	9.69	0.06	38.33	56.00	-17.67	QP
22.655	20.45	10.26	0.30	31.01	50.00	-18.99	Average
22.655	26.95	10.26	0.30	37.51	60.00	-22.49	QP



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For model KJ488FK08D

Live Line
 Level (dBμV)



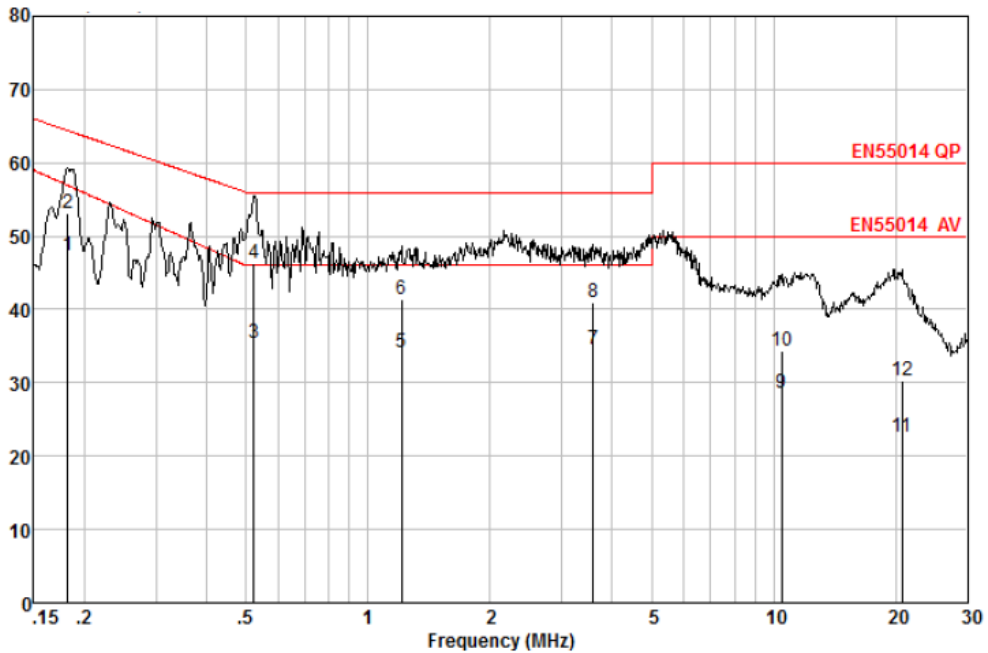
Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.182	37.64	9.65	0.00	47.29	56.94	-9.65	Average
0.182	43.43	9.65	0.00	53.08	64.42	-11.34	QP
0.524	25.81	9.64	0.01	35.46	46.00	-10.54	Average
0.524	36.73	9.64	0.01	46.38	56.00	-9.62	QP
1.210	24.44	9.66	0.02	34.12	46.00	-11.88	Average
1.210	31.68	9.66	0.02	41.36	56.00	-14.64	QP
3.584	24.84	9.69	0.09	34.62	46.00	-11.38	Average
3.584	31.16	9.69	0.09	40.94	56.00	-15.06	QP
10.452	18.63	9.81	0.20	28.64	50.00	-21.36	Average
10.452	24.27	9.81	0.20	34.28	60.00	-25.72	QP
20.704	12.16	10.07	0.30	22.53	50.00	-27.47	Average
20.704	20.02	10.07	0.30	30.39	60.00	-29.61	QP



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Neutral Line
 Level (dB μ V)



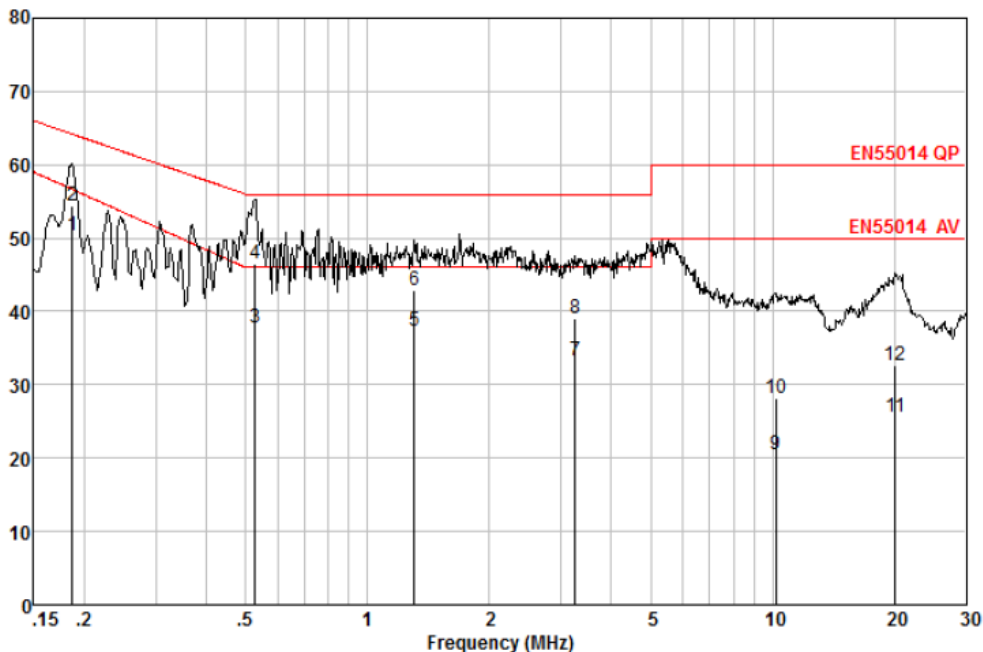
Read Freq	Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dB μ V	dB	dB	dB μ V	dB μ V	dB	
0.182	37.64	9.65	0.00	47.29	56.94	-9.65	Average
0.182	43.43	9.65	0.00	53.08	64.42	-11.34	QP
0.524	25.81	9.64	0.01	35.46	46.00	-10.54	Average
0.524	36.73	9.64	0.01	46.38	56.00	-9.62	QP
1.210	24.44	9.66	0.02	34.12	46.00	-11.88	Average
1.210	31.68	9.66	0.02	41.36	56.00	-14.64	QP
3.584	24.84	9.69	0.09	34.62	46.00	-11.38	Average
3.584	31.16	9.69	0.09	40.94	56.00	-15.06	QP
10.452	18.63	9.81	0.20	28.64	50.00	-21.36	Average
10.452	24.27	9.81	0.20	34.28	60.00	-25.72	QP
20.704	12.16	10.07	0.30	22.53	50.00	-27.47	Average
20.704	20.02	10.07	0.30	30.39	60.00	-29.61	QP



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For model KJ488FK08E

Live Line
Level (dBμV)

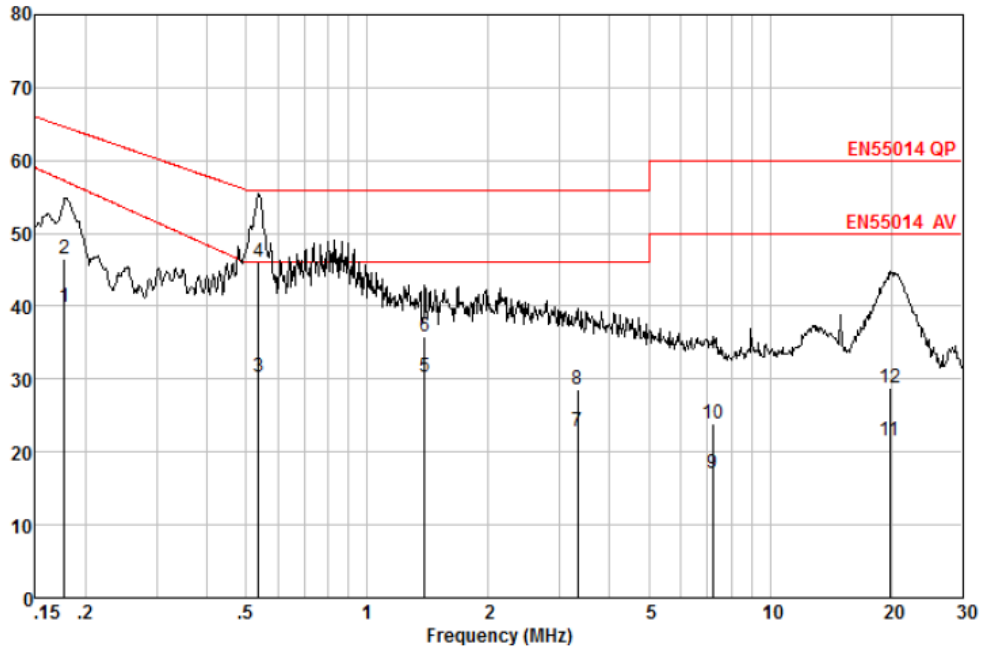


Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.186	40.69	9.67	0.00	50.36	56.65	-6.29	Average
0.186	44.80	9.67	0.00	54.47	64.20	-9.73	QP
0.527	28.18	9.67	0.01	37.86	46.00	-8.14	Average
0.527	36.75	9.67	0.01	46.43	56.00	-9.57	QP
1.303	27.58	9.68	0.02	37.28	46.00	-8.72	Average
1.303	33.20	9.68	0.02	42.90	56.00	-13.10	QP
3.258	23.47	9.70	0.09	33.26	46.00	-12.74	Average
3.258	29.30	9.70	0.09	39.09	56.00	-16.91	QP
10.179	10.46	9.84	0.20	20.50	50.00	-29.50	Average
10.179	18.18	9.84	0.20	28.22	60.00	-31.78	QP
20.056	15.17	10.16	0.30	25.63	50.00	-24.37	Average
20.056	22.17	10.16	0.30	32.63	60.00	-27.37	QP



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Neutral Line
 Level (dB μ V)



Freq	Read Level	LISN Factor	Cable Loss	Limit Level	Over Limit	Remark
MHz	dB μ V	dB	dB	dB μ V	dB	
0.177	30.16	9.67	0.00	39.83	57.23	-17.40 Average
0.177	36.88	9.67	0.00	46.55	64.64	-18.09 QP
0.538	20.67	9.67	0.01	30.35	46.00	-15.65 Average
0.538	36.41	9.67	0.01	46.09	56.00	-9.91 QP
1.388	20.66	9.68	0.03	30.37	46.00	-15.63 Average
1.388	26.22	9.68	0.03	35.93	56.00	-20.07 QP
3.328	12.99	9.70	0.09	22.78	46.00	-23.22 Average
3.328	18.89	9.70	0.09	28.68	56.00	-27.32 QP
7.213	7.09	9.77	0.20	17.06	50.00	-32.94 Average
7.213	13.90	9.77	0.20	23.87	60.00	-36.13 QP
19.845	11.06	10.16	0.30	21.52	50.00	-28.48 Average
19.845	18.33	10.16	0.30	28.79	60.00	-31.21 QP



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6.2 Disturbance Power

Test Requirement: EN 55014-1:2017
 Test Method: CISPR 16-2-2
 Frequency Range: 30MHz to 300MHz
 Limit:
 30MHz- 300MHz 45dB(pw)-55dB(pw) quasi-peak, 35dB(pw)-45dB(pw) average
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

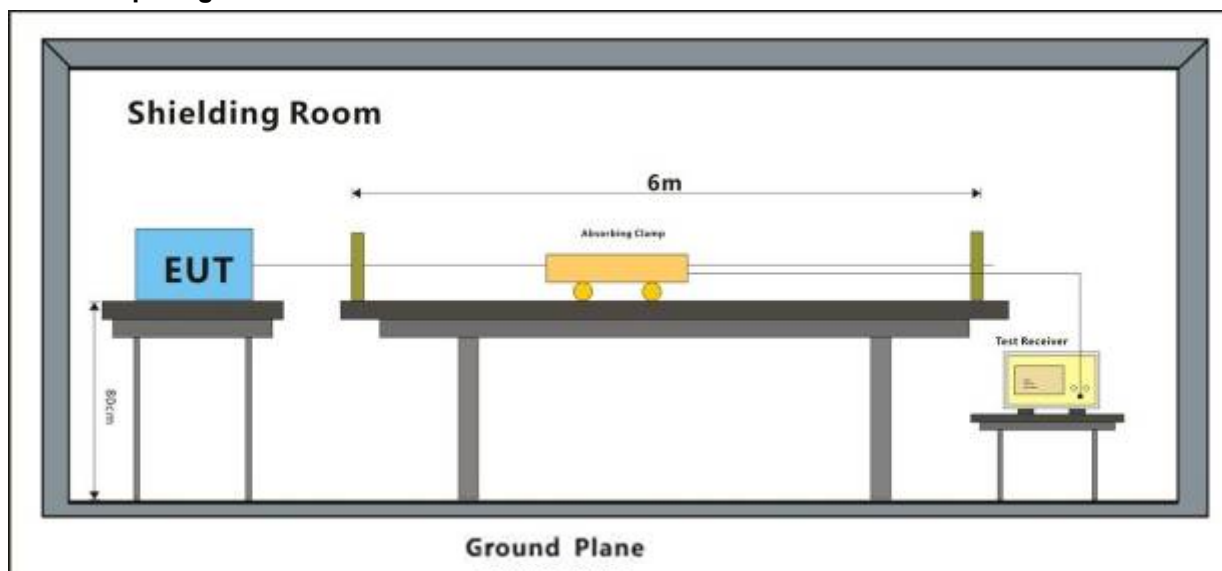
Pre-test these modes to find the worst case:

- a: Test the EUT in air purifying mode at maximum speed.
- b: Test the EUT in air purifying mode at medium speed.
- c: Test the EUT in air purifying mode at minimum speed.

The worst case for final test:

- a: Test the EUT in air purifying mode at maximum speed.

6.2.2 Test Setup Diagram



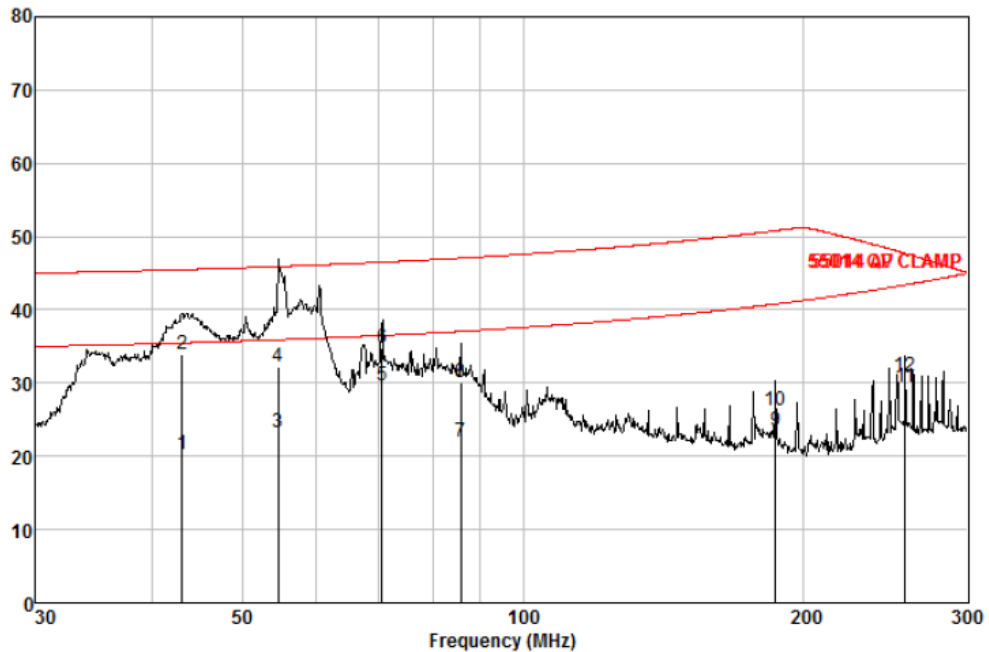
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6.2.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

For model KJ488FK08A

Level (dBpW)



Frequency MHz	Read Level dBuV	Cable Loss dB	Clamp Factor dBpW/dBuV	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
43.065	18.44	1.43	0.30	20.17	35.48	-15.31	Average
43.065	32.17	1.43	0.30	33.90	45.48	-11.58	QP
54.621	20.90	1.68	0.68	23.26	35.91	-12.65	Average
54.621	29.82	1.68	0.68	32.18	45.91	-13.73	QP
70.562	26.54	1.94	1.14	29.62	36.50	-6.88	Average
70.562	31.75	1.94	1.14	34.83	46.50	-11.67	QP
85.680	20.34	2.14	-0.44	22.04	37.06	-15.02	Average
85.680	28.46	2.14	-0.44	30.16	47.06	-16.90	QP
186.462	22.45	3.35	-2.31	23.49	40.79	-17.30	Average
186.462	25.27	3.35	-2.31	26.31	50.80	-24.49	QP
257.058	25.16	4.08	0.30	29.54	43.41	-13.87	Average
257.058	26.46	4.08	0.30	30.84	47.71	-16.87	QP

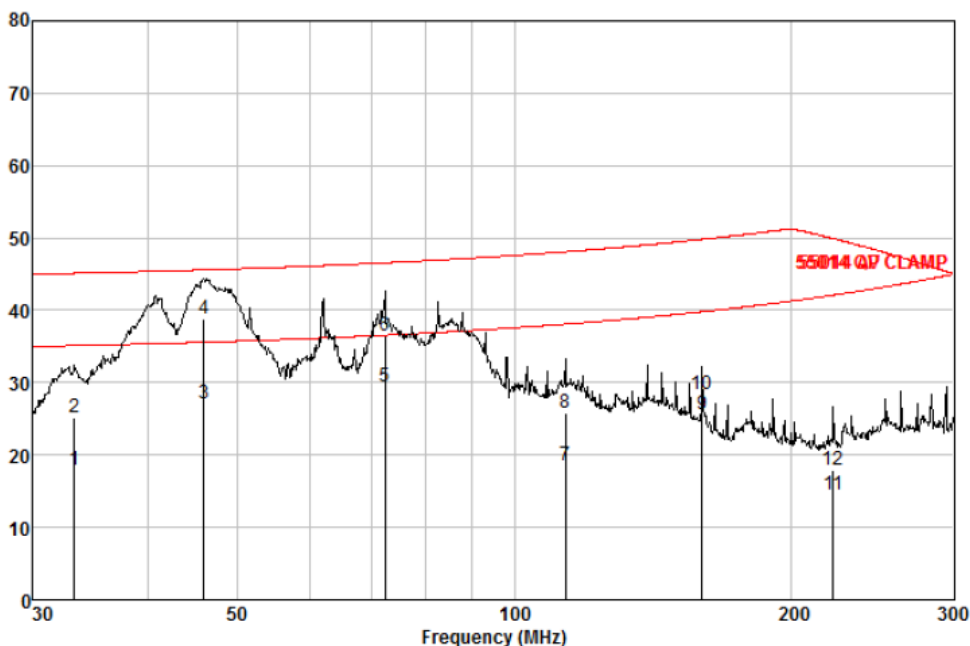


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For model KJ488FK08D

Level (dBpW)



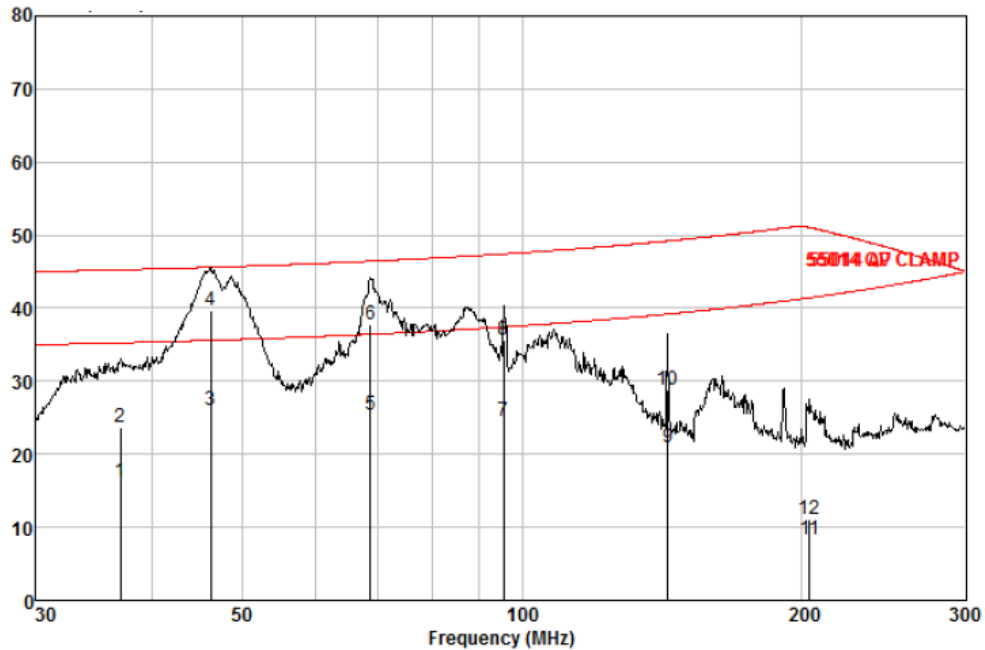
Frequency MHz	Read Level dBuV	Cable Loss dB	Clamp Factor dBpW/dBuV	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
33.275	14.68	1.21	2.08	17.97	35.12	-17.15	Average
33.275	21.90	1.21	2.08	25.19	45.12	-19.93	QP
45.933	26.05	1.54	-0.58	27.01	35.59	-8.58	Average
45.933	37.78	1.54	-0.58	38.74	45.59	-6.85	QP
72.297	26.66	1.96	0.80	29.42	36.57	-7.15	Average
72.297	33.68	1.96	0.80	36.44	46.57	-10.13	QP
113.533	15.00	2.66	0.95	18.61	38.09	-19.48	Average
113.533	22.28	2.66	0.95	25.89	48.10	-22.21	QP
160.001	23.40	3.06	-0.80	25.66	39.81	-14.15	Average
160.001	26.16	3.06	-0.80	28.42	49.82	-21.40	QP
221.882	13.16	3.73	-2.30	14.59	42.11	-27.52	Average
221.882	16.45	3.73	-2.30	17.88	49.92	-32.04	QP



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For model KJ488FK08E

Level (dBpW)



Frequency MHz	Read Level dBuV	Cable Loss dB	Clamp Factor dBpW/dBuV	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
36.993	12.30	1.31	2.57	16.18	35.26	-19.08	Average
36.993	19.71	1.31	2.57	23.59	45.26	-21.67	QP
46.251	25.01	1.55	-0.53	26.03	35.60	-9.57	Average
46.251	38.66	1.55	-0.53	39.68	45.60	-5.92	QP
68.726	22.86	1.92	0.68	25.46	36.43	-10.97	Average
68.726	35.22	1.92	0.68	37.82	46.44	-8.62	QP
95.526	22.85	2.35	-0.67	24.53	37.43	-12.90	Average
95.526	33.88	2.35	-0.67	35.56	47.43	-11.87	QP
143.589	17.61	2.89	0.33	20.83	39.21	-18.38	Average
143.589	25.57	2.89	0.33	28.79	49.21	-20.42	QP
203.761	7.45	3.57	-2.78	8.24	41.44	-33.20	Average
203.761	10.22	3.57	-2.78	11.01	51.06	-40.05	QP



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6.3 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement: EN 55014-1:2017

Test Method: EN 55014-1:2017

Frequency Range: 150kHz to 30MHz

Remark:

Not applicable. The EUT belongs to exceptions from the click definition in clause 4.2.3.1,

“4.2.3.1 Individual switching operations

The disturbance from individual switching operations, caused directly or indirectly, manually or by similar activities on a switch or a control which is included in an appliance or otherwise to be used for:

a) the purpose of mains connection or disconnection only;

b) the purpose of programme selection only;

c) the control of energy or speed by switching between a limited number of fixed positions;

d) the changing of the manual setting of a continuously adjustable control such as a variable speed device for water extraction or electronic thermostats, is to be disregarded for the purpose of testing the appliance for compliance with the limits of radio disturbance set out in this standard.

Examples of switches included in this subclause are the on/off switches for apparatus (including foot activated), for instance the switch for an electric typewriter, manual switches for heat and air flow control in fan heaters and hair dryers, as well as the indirectly operated switch in a cupboard, wardrobe or refrigerator, and sensor-operated switches, etc. Switches which usually will be repeatedly operated are not included in this subclause, e.g. for sewing machines, calculating machines, soldering equipment, etc. (see 7.2.3. and 7.3.2.4.c).

Also the disturbance caused by the operation of any switching device or control which is included in an appliance for the purpose of mains disconnection for safety only, is to be disregarded for the purpose of testing the appliance for compliance with the limits of radio disturbance as described in this standard.”



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6.4 Harmonic Current Emission

Test Requirement: EN 61000-3-2:2014

Test Method: EN 61000-3-2:2014

Frequency Range: 100Hz to 2kHz

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

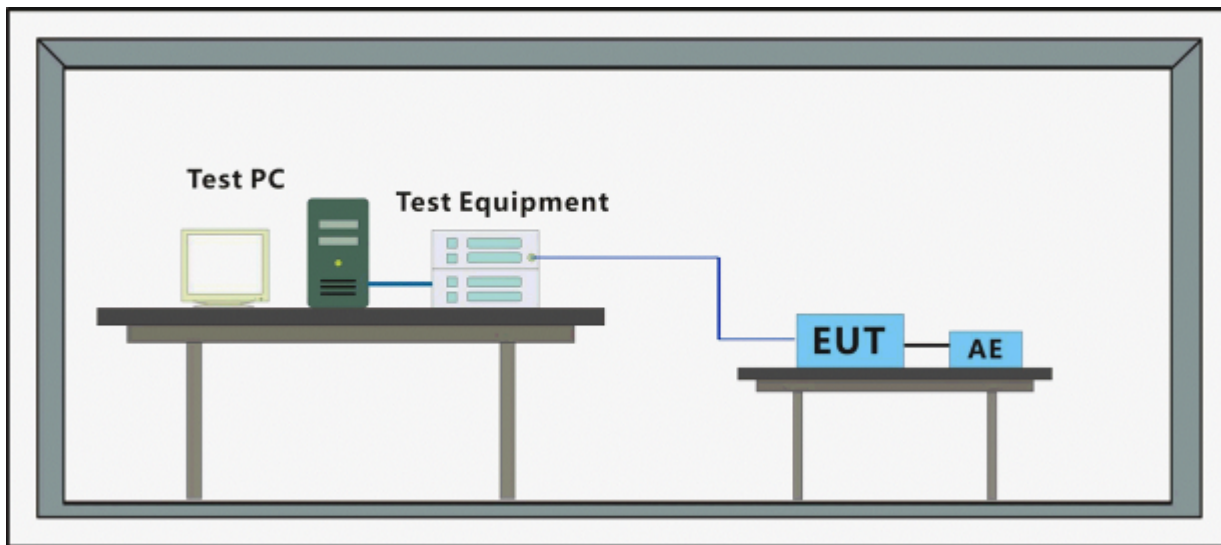
Pre-test these modes to find the worst case:

- a: Test the EUT in air purifying mode at maximum speed.
- b: Test the EUT in air purifying mode at medium speed.
- c: Test the EUT in air purifying mode at minimum speed.

The worst case for final test:

- a: Test the EUT in air purifying mode at maximum speed.

6.4.2 Test Setup



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6.4.3 Measurement Data

For model KJ488FK08A

Harmonics – Class-A per Ed. 4.0 (2014)(Run time) incl. inter-harmonics

Current Test Result Summary (Run time)

Test Result: Pass Source qualification: Normal
 THC(A): 0.615 I-THD(%): 165.4 POHC(A): 0.093 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 229.94	Frequency(Hz): 50.00
I_Peak (Amps): 3.533	I_RMS (Amps): 0.825
I_Fund (Amps): 0.806	Crest Factor: 4.279
Power (Watts): 93.6	Power Factor: 0.493

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.006	1.080	0.5	0.006	1.620	0.4	Pass
3	0.341	2.300	14.8	0.350	3.450	10.2	Pass
4	0.008	0.430	1.9	0.009	0.645	1.3	Pass
5	0.305	1.140	26.8	0.313	1.710	18.3	Pass
6	0.008	0.300	2.6	0.008	0.450	1.9	Pass
7	0.258	0.770	33.5	0.264	1.155	22.8	Pass
8	0.008	0.230	3.4	0.008	0.345	2.4	Pass
9	0.205	0.400	51.3	0.208	0.600	34.7	Pass
10	0.008	0.184	4.1	0.008	0.276	2.9	Pass
11	0.154	0.330	46.6	0.155	0.495	31.4	Pass
12	0.007	0.153	4.8	0.008	0.230	3.4	Pass
13	0.111	0.210	52.7	0.111	0.315	35.4	Pass
14	0.007	0.131	5.4	0.008	0.197	3.8	Pass
15	0.081	0.150	54.0	0.083	0.225	36.7	Pass
16	0.007	0.115	5.8	0.007	0.173	4.1	Pass
17	0.067	0.132	50.4	0.069	0.198	34.8	Pass
18	0.006	0.102	6.2	0.007	0.153	4.4	Pass
19	0.061	0.118	51.2	0.063	0.178	35.6	Pass
20	0.006	0.092	6.2	0.006	0.138	4.4	Pass
21	0.055	0.107	51.5	0.057	0.161	35.6	Pass
22	0.005	0.084	6.2	0.006	0.125	4.4	Pass
23	0.047	0.098	47.9	0.048	0.147	32.7	Pass
24	0.005	0.077	N/A	0.005	0.115	N/A	Pass
25	0.036	0.090	40.4	0.037	0.135	27.3	Pass
26	0.004	0.071	N/A	0.004	0.107	N/A	Pass
27	0.026	0.083	31.5	0.027	0.125	21.4	Pass
28	0.004	0.066	N/A	0.004	0.099	N/A	Pass
29	0.020	0.078	25.2	0.020	0.116	17.3	Pass
30	0.003	0.061	N/A	0.004	0.092	N/A	Pass
31	0.017	0.073	23.7	0.018	0.109	16.6	Pass
32	0.003	0.058	N/A	0.004	0.086	N/A	Pass
33	0.017	0.068	24.5	0.017	0.102	17.1	Pass
34	0.003	0.054	N/A	0.003	0.081	N/A	Pass
35	0.015	0.064	23.7	0.016	0.096	16.2	Pass
36	0.002	0.051	N/A	0.003	0.077	N/A	Pass
37	0.012	0.061	20.3	0.013	0.091	13.8	Pass
38	0.002	0.048	N/A	0.002	0.073	N/A	Pass
39	0.009	0.058	15.5	0.010	0.087	11.0	Pass
40	0.001	0.046	N/A	0.002	0.069	N/A	Pass



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For model KJ488FK08D

Harmonics – Class-A per Ed. 4.0 (2014)(Run time) incl. inter-harmonics

Current Test Result Summary (Run time)

Test Result: **Pass** Source qualification: **Normal**
 THC(A): 0.607 I-THD(%): 165.3 POHC(A): 0.092 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 229.94	Frequency(Hz): 50.00
I_Peak (Amps): 2.980	I_RMS (Amps): 0.721
I_Fund (Amps): 0.372	Crest Factor: 4.187
Power (Watts): 80.8	Power Factor: 0.492

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.006	1.080	0.5	0.006	1.620	0.4	Pass
3	0.336	2.300	14.6	0.339	3.450	9.8	Pass
4	0.008	0.430	1.9	0.008	0.645	1.3	Pass
5	0.301	1.140	26.4	0.304	1.710	17.8	Pass
6	0.008	0.300	2.6	0.008	0.450	1.8	Pass
7	0.255	0.770	33.1	0.257	1.155	22.3	Pass
8	0.008	0.230	3.3	0.008	0.345	2.4	Pass
9	0.203	0.400	50.8	0.204	0.600	34.0	Pass
10	0.008	0.184	4.1	0.008	0.276	2.9	Pass
11	0.152	0.330	46.2	0.153	0.495	30.9	Pass
12	0.007	0.153	4.8	0.008	0.230	3.4	Pass
13	0.110	0.210	52.2	0.110	0.315	34.9	Pass
14	0.007	0.131	5.4	0.007	0.197	3.8	Pass
15	0.080	0.150	53.3	0.080	0.225	35.7	Pass
16	0.007	0.115	5.8	0.007	0.173	4.1	Pass
17	0.065	0.132	49.6	0.066	0.198	33.3	Pass
18	0.006	0.102	6.1	0.007	0.153	4.3	Pass
19	0.060	0.118	50.3	0.060	0.178	33.8	Pass
20	0.006	0.092	6.2	0.006	0.138	4.4	Pass
21	0.054	0.107	50.7	0.055	0.161	34.1	Pass
22	0.005	0.084	6.2	0.006	0.125	4.4	Pass
23	0.046	0.098	47.4	0.047	0.147	31.8	Pass
24	0.005	0.077	N/A	0.005	0.115	N/A	Pass
25	0.036	0.090	40.1	0.036	0.135	27.0	Pass
26	0.004	0.071	N/A	0.004	0.107	N/A	Pass
27	0.026	0.083	31.3	0.026	0.125	21.2	Pass
28	0.004	0.066	N/A	0.004	0.099	N/A	Pass
29	0.019	0.078	25.0	0.020	0.116	17.0	Pass
30	0.003	0.061	N/A	0.004	0.092	N/A	Pass
31	0.017	0.073	23.4	0.017	0.109	16.0	Pass
32	0.003	0.058	N/A	0.004	0.086	N/A	Pass
33	0.016	0.068	24.1	0.017	0.102	16.4	Pass
34	0.003	0.054	N/A	0.003	0.081	N/A	Pass
35	0.015	0.064	23.5	0.015	0.096	15.8	Pass
36	0.002	0.051	N/A	0.003	0.077	N/A	Pass
37	0.012	0.061	20.3	0.013	0.091	13.8	Pass
38	0.002	0.048	N/A	0.002	0.073	N/A	Pass
39	0.009	0.058	15.6	0.009	0.087	10.7	Pass
40	0.001	0.046	N/A	0.002	0.069	N/A	Pass



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For model KJ488FK08E

Harmonics – Class-A per Ed. 4.0 (2014)(Run time) incl. inter-harmonics

Current Test Result Summary (Run time)

Test Result: **Pass** Source qualification: **Normal**
 THC(A): 0.609 I-THD(%): 166.1 POHC(A): 0.093 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 229.94	Frequency(Hz): 50.00
I_Peak (Amps): 2.988	I_RMS (Amps): 0.719
I_Fund (Amps): 0.369	Crest Factor: 4.198
Power (Watts): 80.3	Power Factor: 0.490

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.006	1.080	0.5	0.006	1.620	0.4	Pass
3	0.336	2.300	14.6	0.340	3.450	9.8	Pass
4	0.008	0.430	1.9	0.008	0.645	1.3	Pass
5	0.302	1.140	26.4	0.304	1.710	17.8	Pass
6	0.008	0.300	2.6	0.008	0.450	1.8	Pass
7	0.256	0.770	33.2	0.258	1.155	22.3	Pass
8	0.008	0.230	3.4	0.008	0.345	2.4	Pass
9	0.205	0.400	51.2	0.206	0.600	34.3	Pass
10	0.008	0.184	4.1	0.008	0.276	2.9	Pass
11	0.154	0.330	46.7	0.155	0.495	31.3	Pass
12	0.007	0.153	4.8	0.008	0.230	3.4	Pass
13	0.111	0.210	53.0	0.112	0.315	35.6	Pass
14	0.007	0.131	5.4	0.007	0.197	3.8	Pass
15	0.081	0.150	54.2	0.082	0.225	36.5	Pass
16	0.007	0.115	5.8	0.007	0.173	4.1	Pass
17	0.066	0.132	50.0	0.067	0.198	33.8	Pass
18	0.006	0.102	6.1	0.007	0.153	4.3	Pass
19	0.060	0.118	50.4	0.061	0.178	34.2	Pass
20	0.006	0.092	6.2	0.006	0.138	4.4	Pass
21	0.055	0.107	50.9	0.055	0.161	34.4	Pass
22	0.005	0.084	6.2	0.005	0.125	4.3	Pass
23	0.047	0.098	47.8	0.047	0.147	32.1	Pass
24	0.005	0.077	N/A	0.005	0.115	N/A	Pass
25	0.037	0.090	40.7	0.037	0.135	27.5	Pass
26	0.004	0.071	N/A	0.004	0.107	N/A	Pass
27	0.027	0.083	31.9	0.027	0.125	21.6	Pass
28	0.004	0.066	N/A	0.004	0.099	N/A	Pass
29	0.019	0.078	25.1	0.020	0.116	17.0	Pass
30	0.003	0.061	N/A	0.004	0.092	N/A	Pass
31	0.017	0.073	23.1	0.017	0.109	15.7	Pass
32	0.003	0.058	N/A	0.004	0.086	N/A	Pass
33	0.016	0.068	23.9	0.017	0.102	16.3	Pass
34	0.003	0.054	N/A	0.003	0.081	N/A	Pass
35	0.015	0.064	23.5	0.015	0.096	15.9	Pass
36	0.002	0.051	N/A	0.003	0.077	N/A	Pass
37	0.013	0.061	20.6	0.013	0.091	14.0	Pass
38	0.002	0.048	N/A	0.002	0.073	N/A	Pass
39	0.009	0.058	16.0	0.009	0.087	11.0	Pass
40	0.001	0.046	N/A	0.002	0.069	N/A	Pass



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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013

Test Method: EN 61000-3-3:2013

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

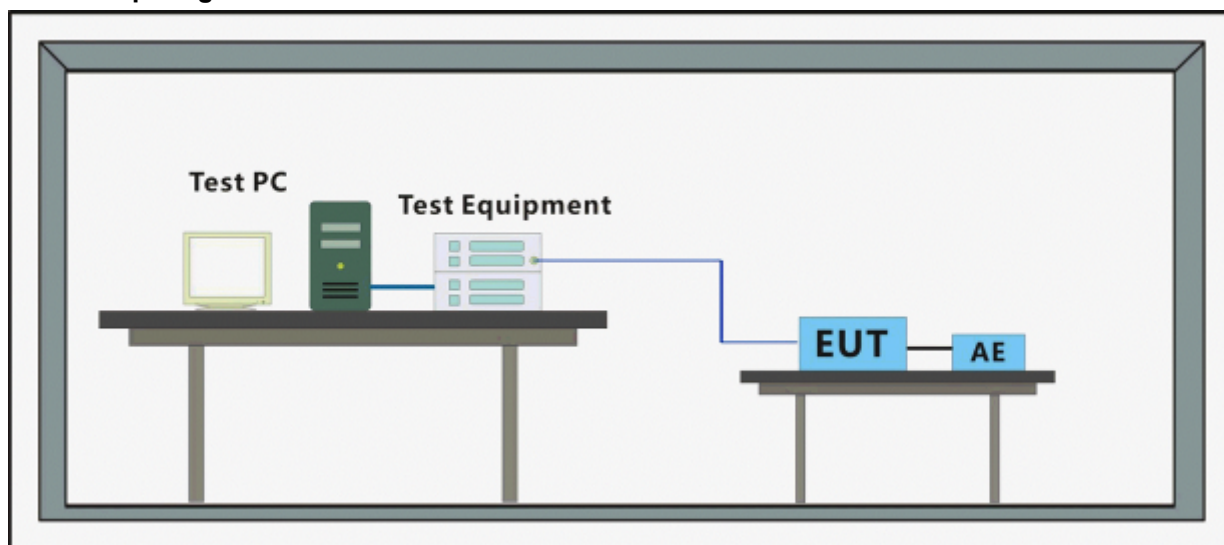
Pre-test these modes to find the worst case:

- a: Test the EUT in air purifying mode at maximum speed.
- b: Test the EUT in air purifying mode at medium speed.
- c: Test the EUT in air purifying mode at minimum speed.

The worst case for final test:

- a: Test the EUT in air purifying mode at maximum speed.

6.5.2 Test Setup Diagram



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6.5.3 Measurement Data

For model KJ488FK08A

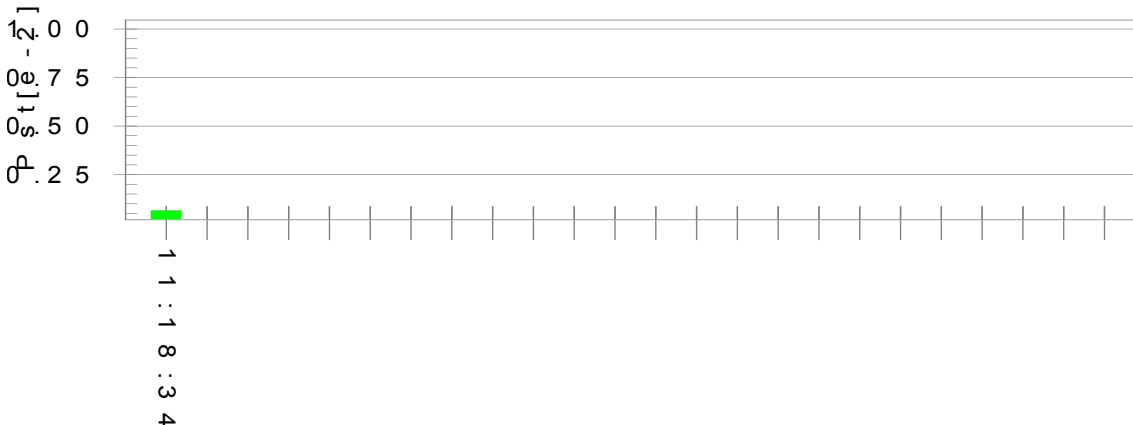
Flicker Test Summary per EN 61000-3-3 (Run time)

Test Result: Pass

Status: Test Completed

Pst_t and limit line

European Limits



Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.75		
Highest dt (%):	0.00	Test limit (%):	N/A
T-max (mS):	0	Test limit (mS):	500.0
Highest dc (%):	0.00	Test limit (%):	3.30
Highest dmax (%):	0.06	Test limit (%):	4.00
Highest Pst (10 min. period):	0.064	Test limit:	1.000



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For model KJ488FK08D

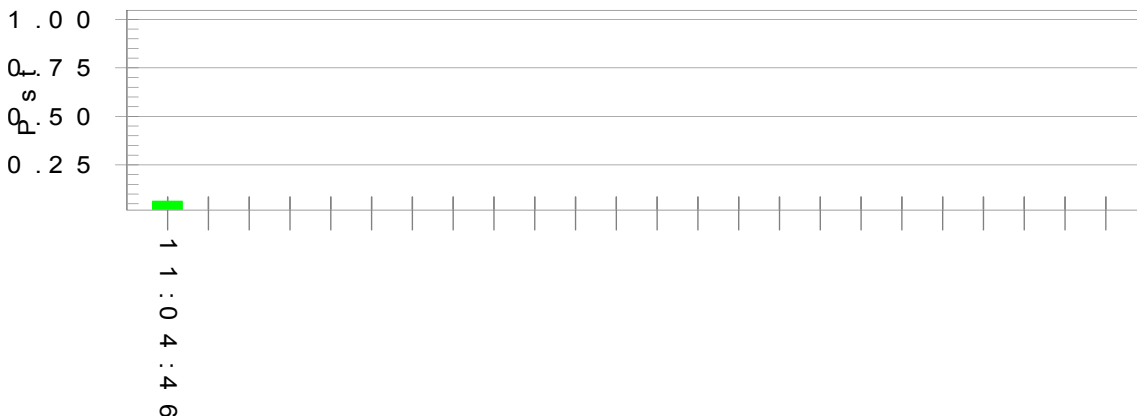
Flicker Test Summary per EN 61000-3-3 (Run time)

Test Result: Pass

Status: Test Completed

Pst_t and limit line

European Limits



Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.77		
Highest dt (%):	0.00	Test limit (%):	N/A N/A
T-max (mS):	0	Test limit (mS):	500.0 Pass
Highest dc (%):	0.00	Test limit (%):	3.30 Pass
Highest dmax (%):	0.05	Test limit (%):	4.00 Pass
Highest Pst (10 min. period):	0.064	Test limit:	1.000 Pass



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For model KJ488FK08E

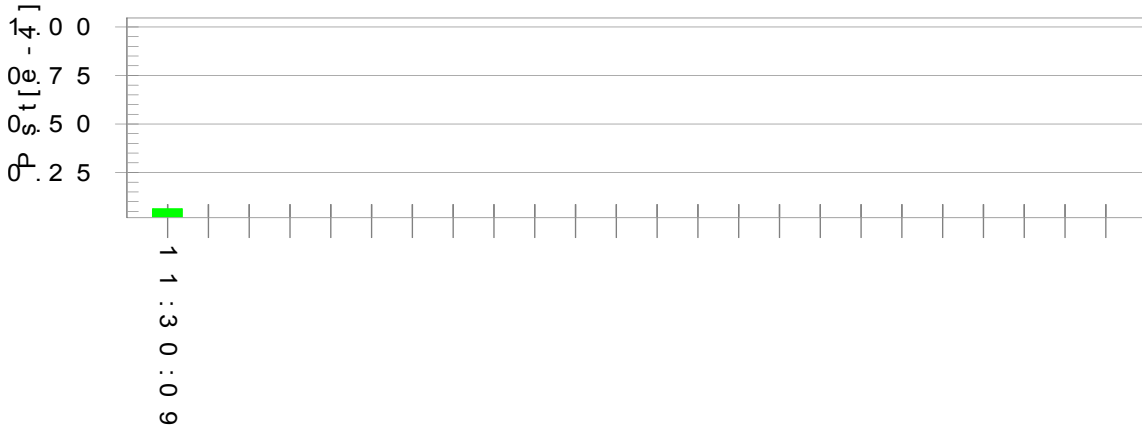
Flicker Test Summary per EN 61000-3-3 (Run time)

Test Result: Pass

Status: Test Completed

Pst, and limit line

European Limits



Parameter values recorded during the test:

Vrms at the end of test (Volt): 229.70

Highest dt (%): 0.00

T-max (mS): 0

Highest dc (%): 0.00

Highest dmax (%): 0.08

Highest Pst (10 min. period): 0.064

Test limit (%): N/A N/A

Test limit (mS): 500.0 Pass

Test limit (%): 3.30 Pass

Test limit (%): 4.00 Pass

Test limit: 1.000 Pass



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7 Immunity Test Results

7.1 Performance Criteria Description in EN 55014-2:2015

- Criterion A** The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion B** The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion C** Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



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7.2 Electrostatic Discharge

Test Requirement:	EN 55014-2:2015
Test Method:	EN 61000-4-2:2009
Performance Criterion:	B
Discharge Impedance:	330Ω/150pF
Number of Discharge:	Minimum 10 times at each test point
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

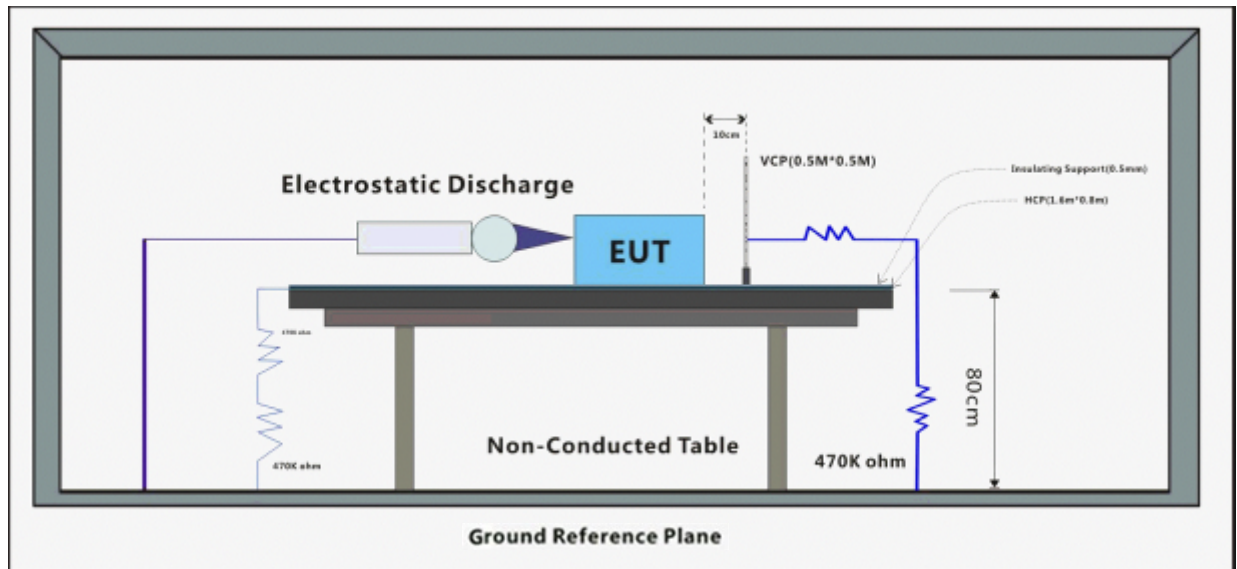
Test Mode: For air purifier:

- a: Test the EUT in air purifying mode at maximum speed.
- b: Test the EUT in air purifying mode at medium speed.
- c: Test the EUT in air purifying mode at minimum speed.

For remote controller:

- d: Test the EUT in idle mode.
- e: Test the remote control in continuous transmitting mode.

7.2.2 Test Setup Diagram



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7.2.3 Test Results:

Observations: Test Point:

1. All insulated enclosure and seams.
2. All accessible metal parts of the enclosure.
3. All sides

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	8	+	1	A
Air Discharge	8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

A: No degradation in the performance of the EUT was observed.



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7.3 Electrical Fast Transients/Burst at Power Port

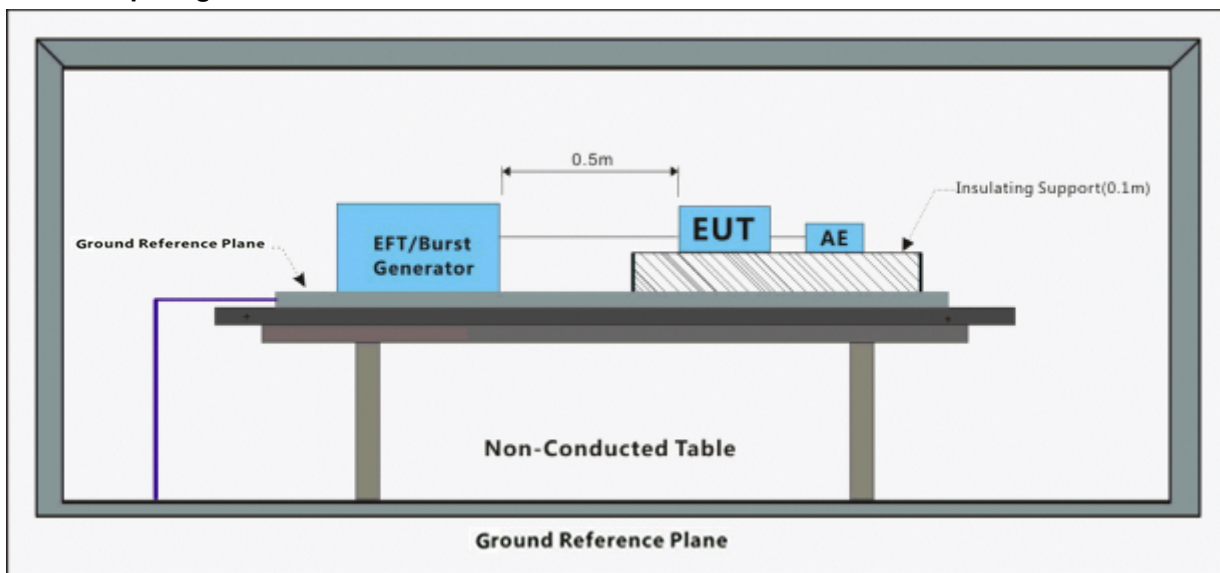
Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-4:2012
 Performance Criterion: B
 Repetition Frequency: 5kHz
 Burst Period: 300ms
 Test Duration: 2 minute per level & polarity

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar
 Test Mode:
 a: Test the EUT in air purifying mode at maximum speed.
 b: Test the EUT in air purifying mode at medium speed.
 c: Test the EUT in air purifying mode at minimum speed.
 d: Test the EUT in idle mode.

7.3.2 Test Setup Diagram



7.3.3 Test Results:

Test Line	Level (kV)	Polarity	Direct/Coupling	Result / Observations
AC power port	1	+	Direct	A
AC power port	1	-	Direct	A

Results:

A: No degradation in the performance of the EUT was observed.



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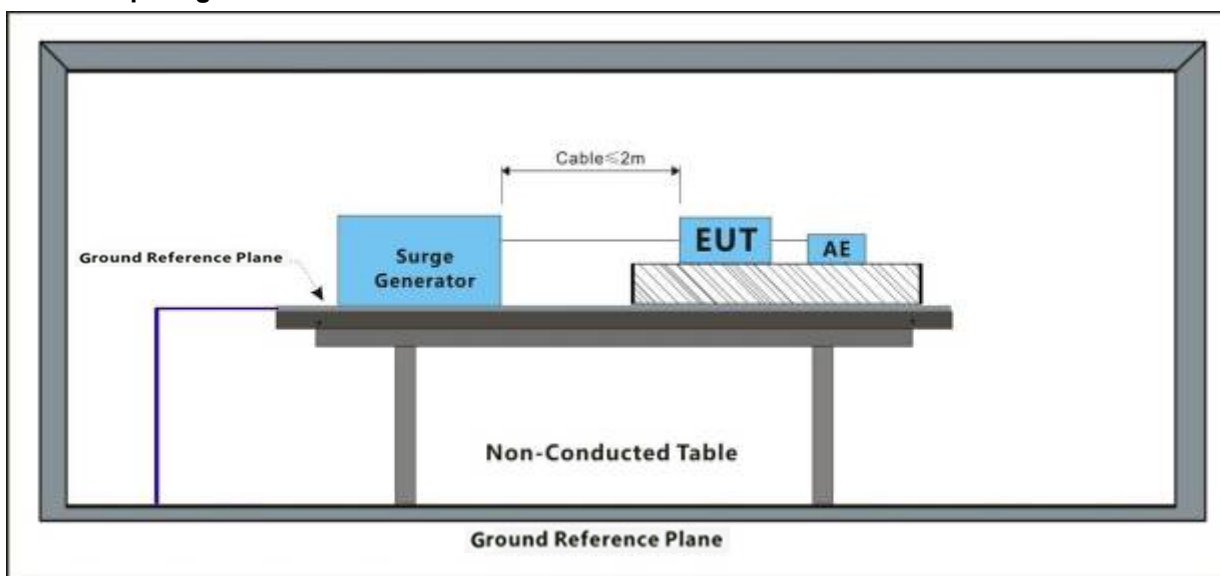
7.4 Surge at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-5:2014
 Performance Criterion: B
 Interval: 60s between each surge
 No. of surges: 5 positive at 90°, 5 negative at 270°.

7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar
 Test Mode:
 a: Test the EUT in air purifying mode at maximum speed.
 b: Test the EUT in air purifying mode at medium speed.
 c: Test the EUT in air purifying mode at minimum speed.
 d: Test the EUT in idle mode.

7.4.2 Test Setup Diagram



7.4.3 Test Results:

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	90°	A
L-N	1	-	270°	A

Results:

A: No degradation in the performance of the EUT was observed.



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7.5 Conducted Immunity at Power Port (150kHz-230MHz)

Test Requirement:	EN 55014-2:2015
Test Method:	EN 61000-4-6:2014
Performance Criterion:	A
Frequency Range:	0.15MHz to 230MHz
Modulation:	80%, 1kHz Amplitude Modulation
Step Size	1%

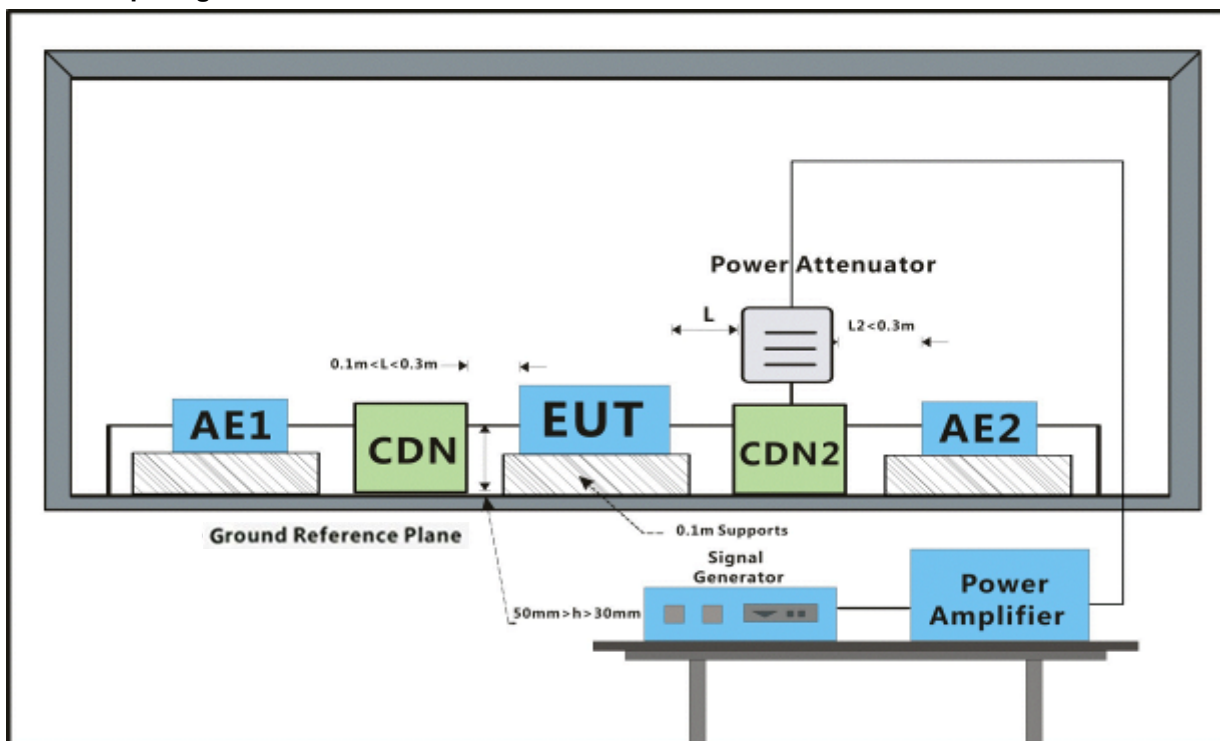
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

- Test Mode:
- a: Test the EUT in air purifying mode at maximum speed.
 - b: Test the EUT in air purifying mode at medium speed.
 - c: Test the EUT in air purifying mode at minimum speed.
 - d: Test the EUT in idle mode.

7.5.2 Test Setup Diagram



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7.5.3 Test Results:

Cable port	Level (Vrms)	Direct/Coupling	Dwell time	Result / Observations
AC power port	3	Direct	2s	A

Results:

A: No degradation in the performance of the EUT was observed.



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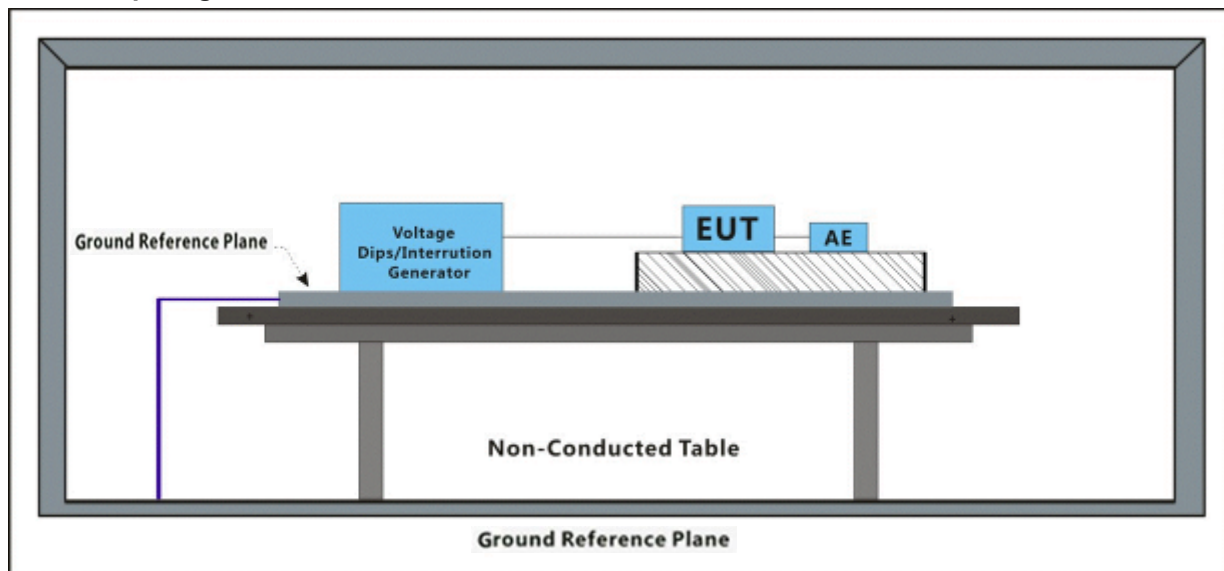
7.6 Voltage Dips and Interruptions

Test Requirement:	EN 55014-2:2015
Test Method:	EN 61000-4-11:2004
Performance Criterion:	
For 50Hz	0% of UT (Supply Voltage) for 0.5 Periods: C; 40% of UT for 10 Periods: C; 70% of UT for 25 Periods: C
For 60Hz	0% of UT (Supply Voltage) for 0.5 Periods: C; 40% of UT for 12 Periods: C; 70% of UT for 30 Periods: C
No. of Dips / Interruptions:	3 per Level
Time between dropout	10s

7.6.1 E.U.T. Operation

Operating Environment:	
Temperature:	25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar
Test Mode:	a: Test the EUT in air purifying mode at maximum speed. b: Test the EUT in air purifying mode at medium speed. c: Test the EUT in air purifying mode at minimum speed. d: Test the EUT in idle mode.

7.6.2 Test Setup Diagram



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7.6.3 Test Results:

For 50Hz

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Periods	3	A
0	180°	0.5 Periods	3	A
40	0°	10 Periods	3	B
40	180°	10 Periods	3	B
70	0°	25 Periods	3	B
70	180°	25 Periods	3	B

Results:

A: No degradation in the performance of the EUT was observed.

B: During test the LED display was flicking, it could recover automatically after test.

For 60Hz

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Periods	3	A
0	180°	0.5 Periods	3	A
40	0°	12 Periods	3	B
40	180°	12 Periods	3	B
70	0°	30 Periods	3	B
70	180°	30 Periods	3	B

Results:

A: No degradation in the performance of the EUT was observed.

B: During test the LED display was flicking, it could recover automatically after test.



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7.7 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010
 Performance Criterion: A
 Frequency Range: 80MHz to 1GHz
 Antenna Polarisation: Vertical and Horizontal
 Modulation: 1kHz,80% Amp. Mod,1% increment

7.7.1 E.U.T. Operation

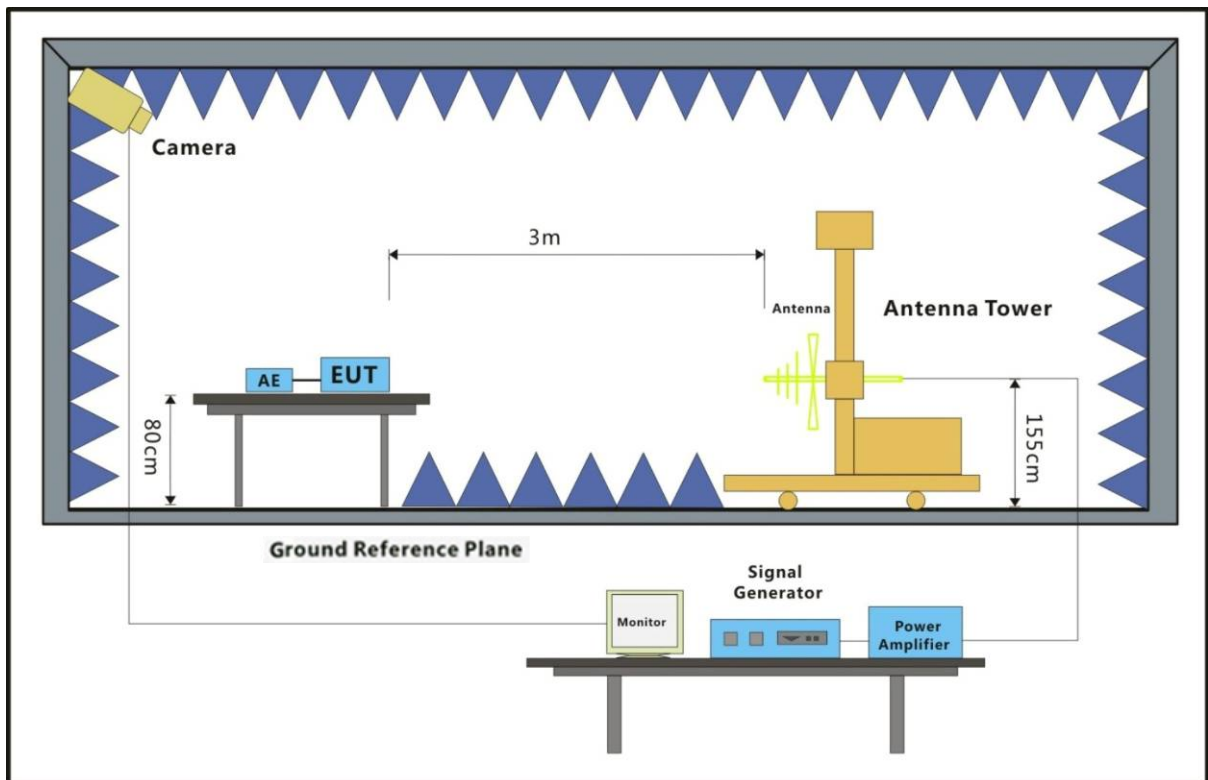
Operating Environment:

Temperature: 21 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

Test Mode: d: Test the EUT in idle mode.

e: Test the remote control in continuous transmitting mode.

7.7.2 Test Setup Diagram



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7.7.3 Test Results:

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A

Results:

A: No degradation in the performance of the EUT was observed.



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8 Photographs

8.1 EUT Constructional Details

For model KJ488FK08A

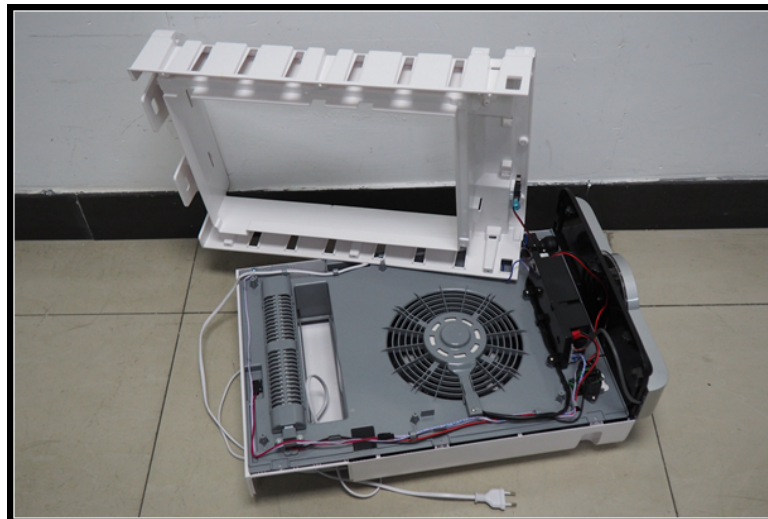


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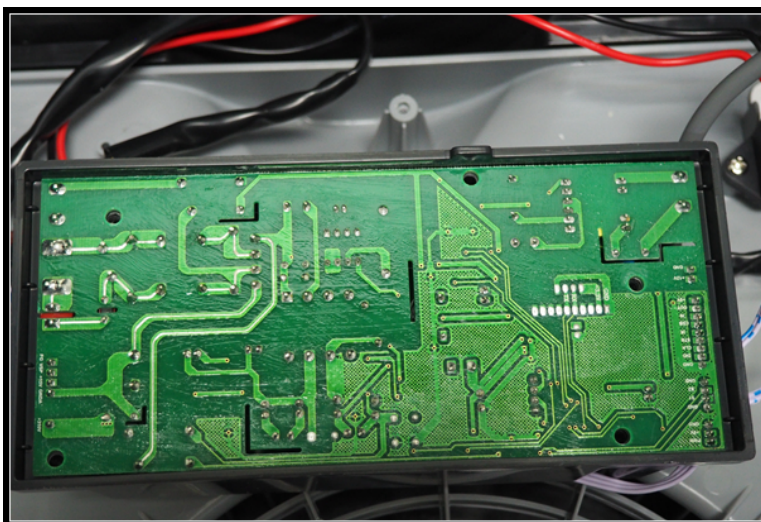
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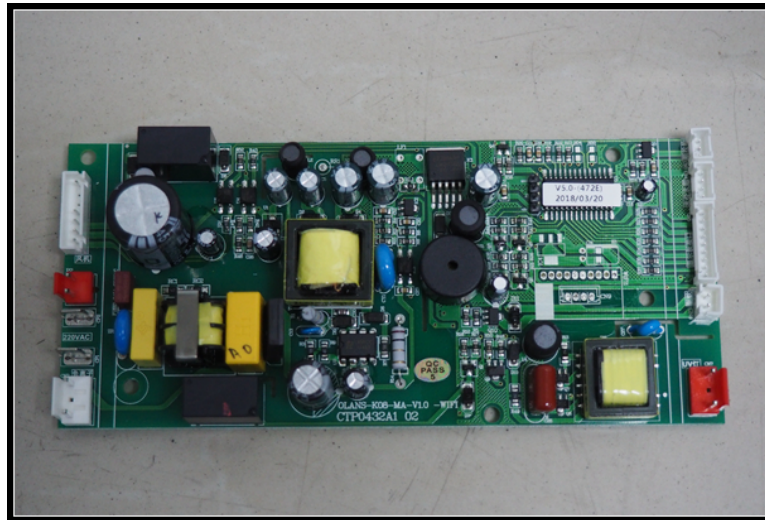


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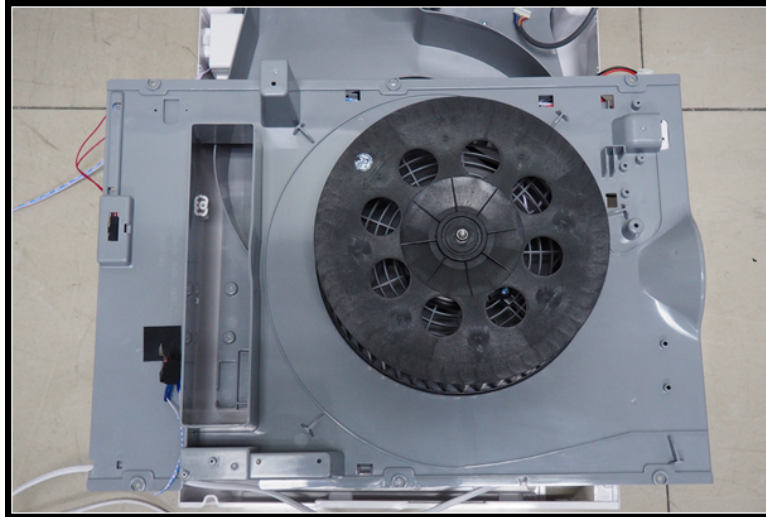


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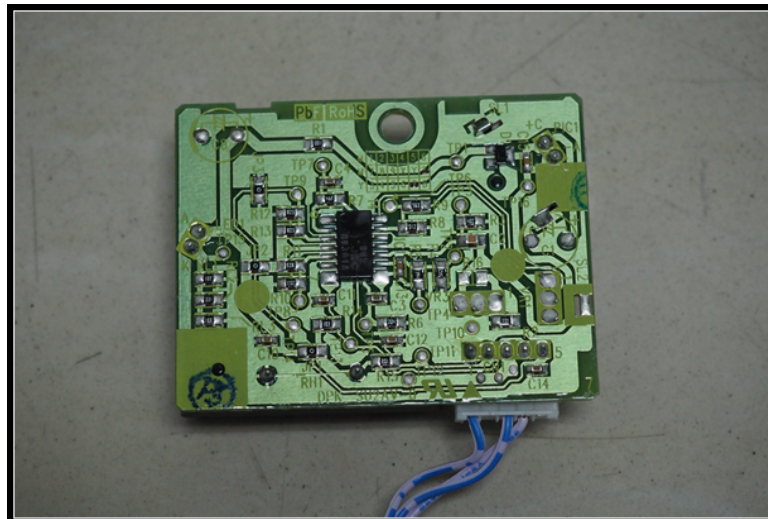
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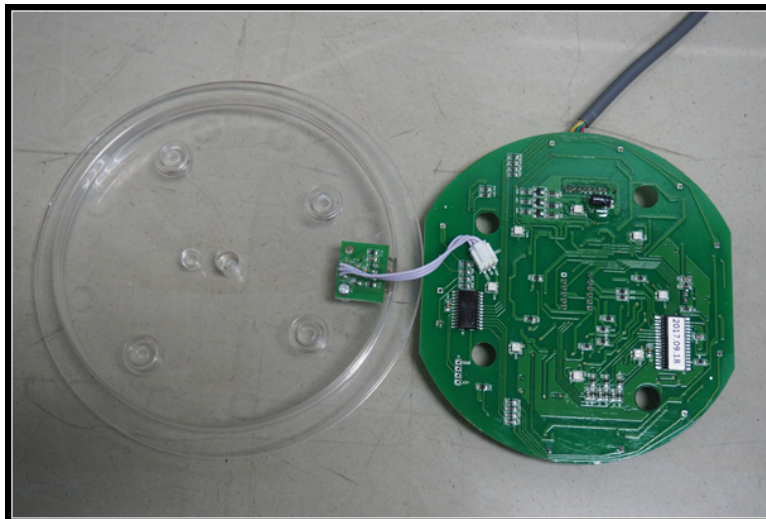
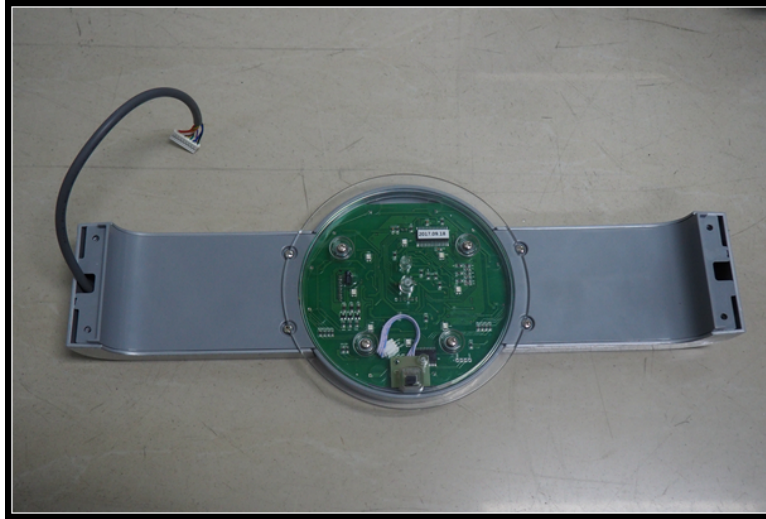
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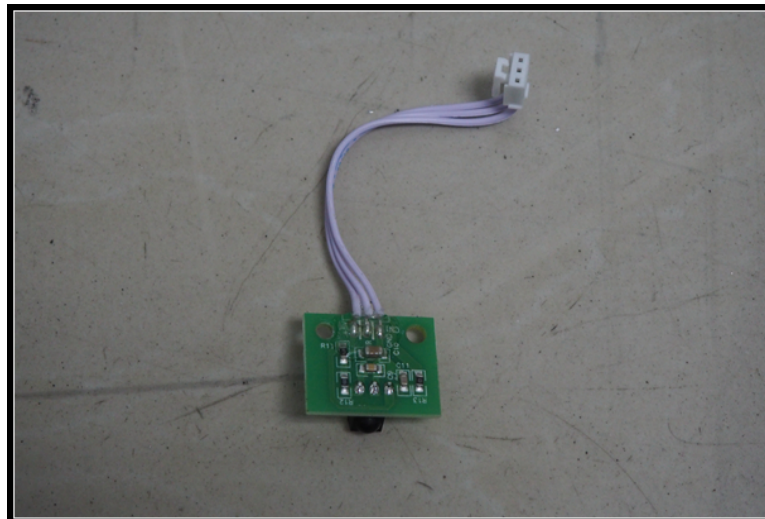
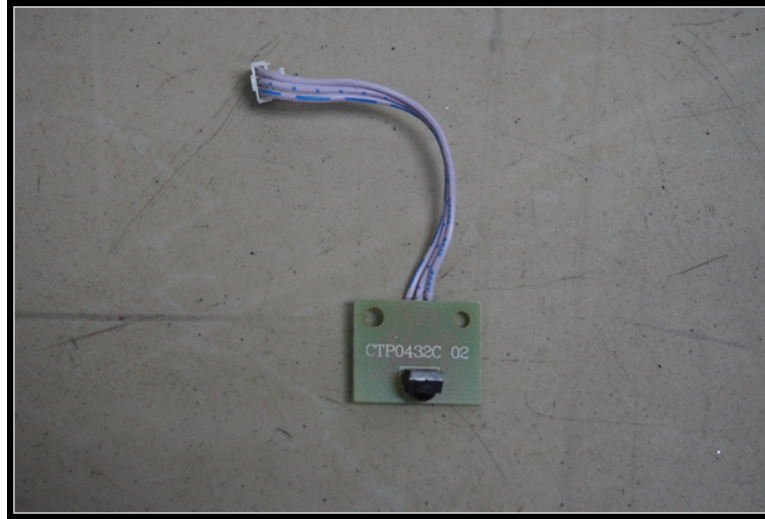
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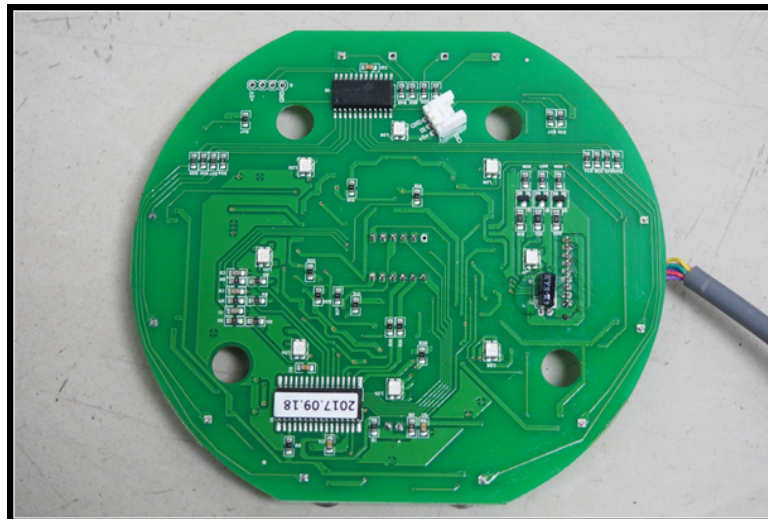
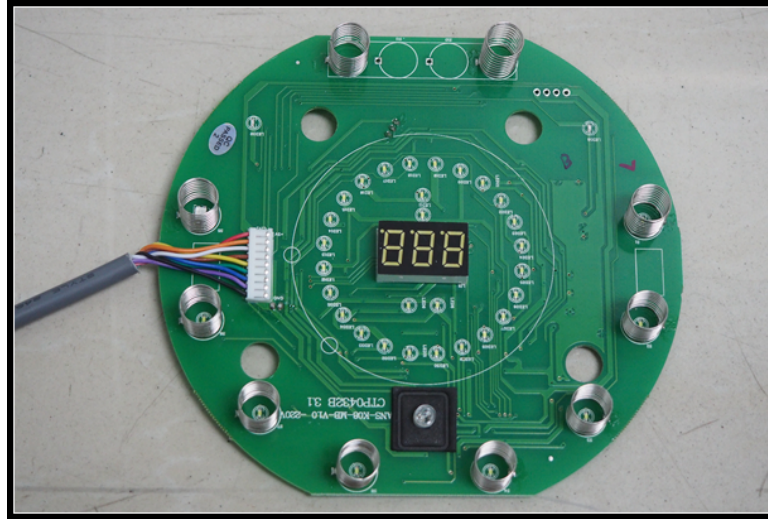
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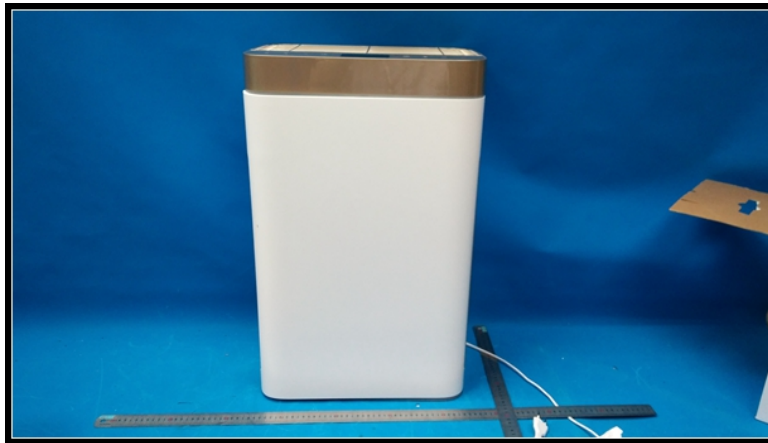


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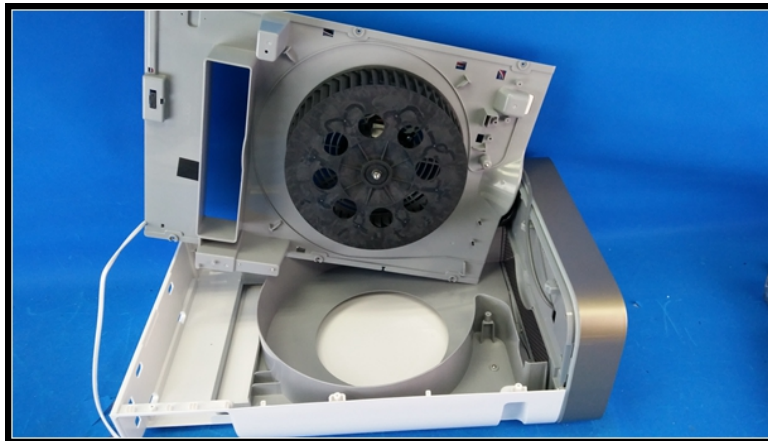
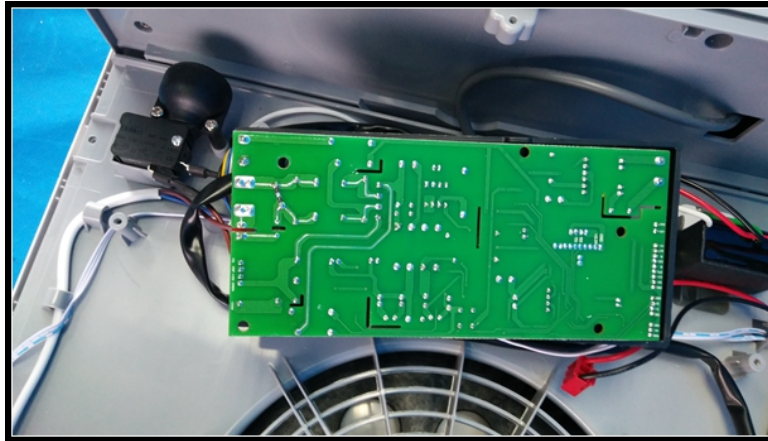


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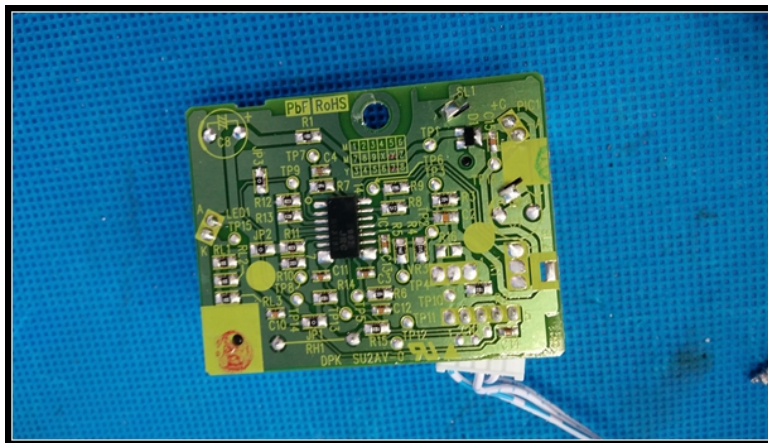
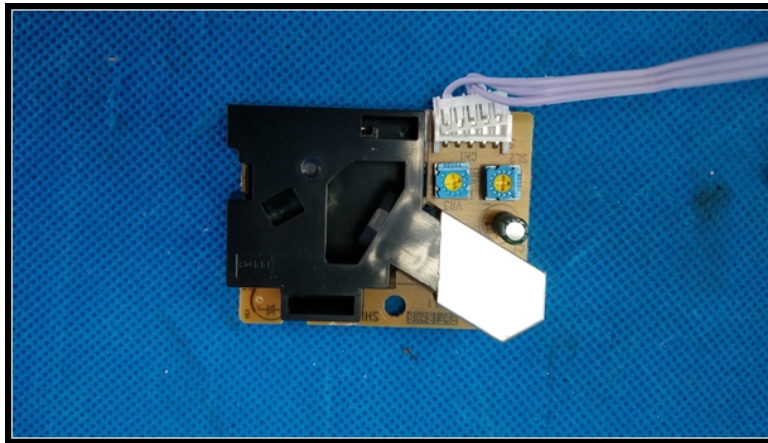
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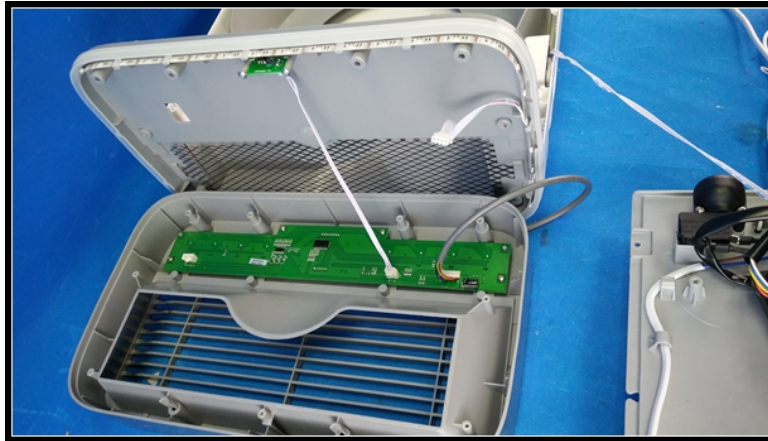


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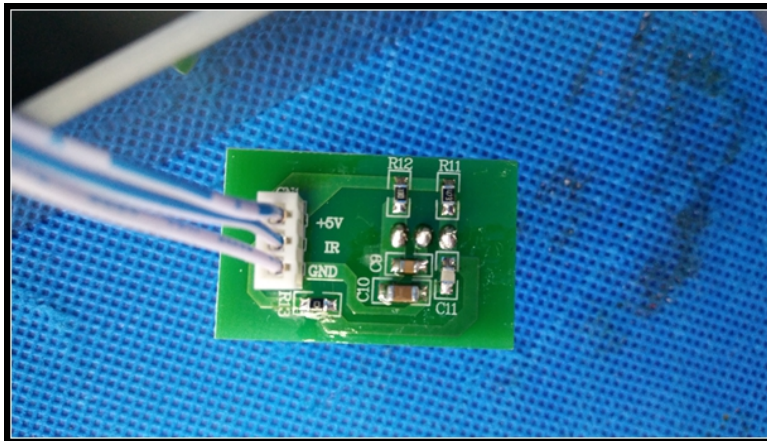


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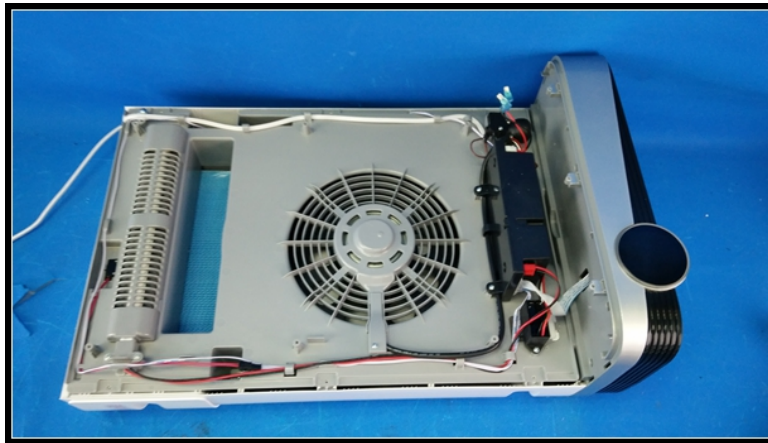


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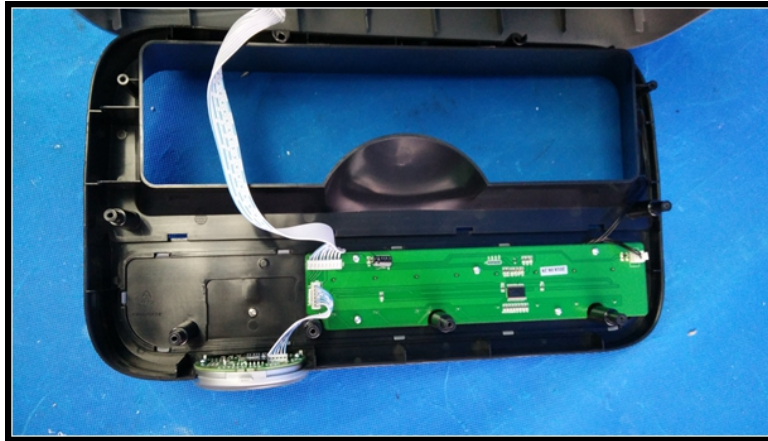
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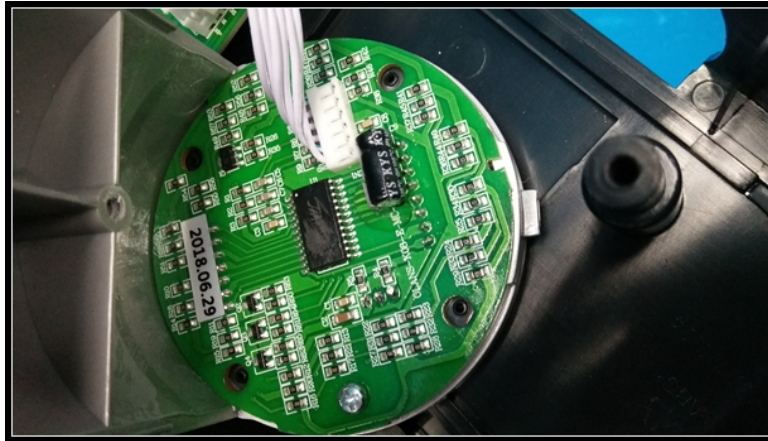
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