CERTIFICATE OF COMPLIANCE

No. C13H152

Holder of Certificate: GREE Electric Appliances Inc. of zhuhai
Jinji West Road, Qianshan, Zhuhai, Guangdong 519070, P. R. China
Product: Air Conditioner
Model/Type: GTH42K3FI;GTH36K3FI
GKH42K3FI;GKH36K3FI
GFH42K3FI;GKH36K3FI
GUHD42NM3FO; GUHD36NM3FO

Is complied with:

EMC Directive: 2004/108/EC

Test acc. To: EN55014-1: 2006+A1:2009+A2:2011
EN55014-2: 1997+A1: 2001+A2:2008
EN61000-3-2: 2006+A1:2009+A2:2009
EN61000-3-3: 2008

Report Number: GER13H152E

This certificate of conformity is based on the adequate technical documentation and the tests in Testing Laboratory of Gree Electric Appliances Inc. of Zhuhai. This declaration becomes invalid if technical or operational modifications are introduced without the manufacturer's consent.
Note: Testing Laboratory of Gree Electric Appliances Inc. of Zhuhai is accredited by TUV Rheinland, CNAS, VDE, etc.

(Authorized signature)
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Date: 2013-08-15

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EMC TEST REPORT

Product Name	:	Split-type Room Air Conditioner
Product Model	:	GTH42K3FI(indoor unit); GTH36K3FI(indoor unit) GFH42K3FI(indoor unit); GFH36K3FI(indoor unit) GKH42K3FI(indoor unit); GKH36K3FI(indoor unit) GUHD42NM3FO（outdoor unit）; GUHD36NM3FO（outdoor unit）
Serial No.	:	Pre-production model
Date of Receipt	:	2013.08.15
Test Period	:	2013.08.15
Applicant	:	Gree Electric Appliances, Inc. of Zhuhai
Testing Location	:	Gree EMC Testing Lab.

Applicable The Following Selected Harmonized Standards:

EN55014-1: 2006+A1:2009+A2:2011
EN55014-2: 1997+A1: 2001+A2:2008
EN61000-3-2: 2006+A1:2009+A2:2009
EN61000-3-3: 2008

Tested by	:	**Liujie**	刘杰	2013-08-15
		Printed Name	*Signature*	*Date((YY-MM-DD)*
Reviewed by	:	Chen zhili	陈智力	2013-08-15
		Printed Name	*Signature*	*Date((YY-MM-DD)*

EMC LABORATORY OF GREE ELETRIC APPLIANCES INC. OF ZHUHAI

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THIS TEST REPORT IS RESPONSIBLE FOR THE SAMPLE TESTED ONLY AND SHOULD NOT BE DUPLICATED IN PART WITHOUT PERMISSION OF THE TEST LAB

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Remark:

Principle of Configuration Selection of test set-up and operation mode

Emission: 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.

Immunity: The Equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

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1. Test Summary

4. EMISSION TESTS:

4.1 Mains and additional Terminal Continuous Disturbance Voltage

Test Result: Pass

4.2 Discontinuous Interference on AC Mains

Test Result: Pass

4.3 Disturbance Power

Test Result: Pass

4.4 Harmonics on AC Mains

Test Result: Pass

4.5 Voltage Fluctuation on AC Mains

Test Result: Pass

5. IMMUNITY TESTS:

5.1 Electrostatic Discharge (ESD)

Test Result: Pass

5.2 Electrical Fast Transient/Burst (EFT)

Test Result: Pass

5.3 Surge

Test Result: Pass

5.4 Immunity to conducted Disturbances, induced by RF fields

Test Result: Pass

5.5 Voltage Dips and Short interruptions

Test Result: Pass

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2. Products Description

Power Supply	:	AC 220-240V , 50Hz for indoor unit AC 380-415V 3N~，50Hz for outdoor unit
Power Cord	:	Unshielded
Interconnection Line	:	Unshielded
Additional Equipment	:	IR Remote Controller
Protection	:	Class Ⅰ
Operation Mode	:	Standby Fan Cool Heat Dry Auto
General Description	:	

For these current models, they are split-type models consisting of two parts, one indoor unit and one common outdoor unit, For the common outdoor unit (GUHD42NM3FO), it can match three different model indoor units (GTH42K3FI, GKH42K3FI and GFH42K3FI) to work, For the common outdoor unit (GUHD36NM3FO), it can match three different model indoor units (GTH36K3FI, GKH36K3FI and GFH36K3FI) to work and the power are supplied from the indoor and outdoor units respectively, and the model G*H36K3FI is the same as the model G*H42K3FI (*=T,K,F),all EMS test (Immunity item) are applied to the three different combination for indoor and outdoor units.

About the particular information of the modes, please refer to Technical Construction Document, user manual, etc.

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3. List of Test and Measurement Instruments

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
EMI Test Receiver	R&S	ESCS30	100353	06/28/2014
L.I.S.N	R&S	ENV4200	100031	06/28/2014
Pulse limiter	R&S	ESH3-Z2	100066	06/28/2014
Absorbing Clamp	R&S	MDS-21	100194	08/17/2014
Voltage Probe	Schwarbeck	TK9420	9426-235	06/28/2014
Clicks Analyzer	Schaffner	DIA1512D	21534	06/28/2014
Harmonic/Flicker Testing system	CI	PACS-3	72823	03/28/2014
ESD Simulator System	TESTQ	NSG438	1198	08/13/2014
EFT/B Generator	Schaffner	NSG2025-4	1237	06/28/2014
Capacitive Coupling Clamp	Schaffner	CDN126	532	07/07/2014
RF-Generator	Schaffner	NSG2070	1022	03/28/2014
Coupling/Decoupling Network	Schaffner	CDN M316	15072	03/28/2014
EM clamp	Schaffner	KEMZ801	15792	06/28/2014
Voltage Swell/DIP/Interrupt Source	KeyTek ECAT	EP62	0512181	06/28/2014
Surge Generator-Combination Wave	KeyTek ECAT	510A	0512182	06/28/2014
Coupling/Decoupling Network	KeyTek ECAT	E4554A	0512183	06/28/2014

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4. Emission Test

4.1 Main and Additional Terminal Continuous Disturbance Voltage

Date of testing	:	2013.08.15
Temperature	:	26°C/18°C
Operational mode	:	Cool /Heat, High speed
Humidity	:	65%RH~67%RH
Test procedure	:	EN55014-1: 2006+A1:2009+A2:2011
Frequency range	:	0.15M - 30MHz
Kind of test site	:	Shielded room
Test result	:	Pass

1.Test Setup:

The EUT is on an insulating plane (height=80cm)
The distance between EUT and L.I.S.N is 80cm.
The distance between EUT and other metal conductors grounded is at least 80cm.

2.If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector has been omitted.
Disturbances other than those mentioned are small or not detectable.

Receiver setup:
Detector:Peak+Average; IF-BW: 9kHz; Step: 4.5kHz; M-Time: 20ms
The test data are as follows:

At main terminal: Pass

Model: GUHD36NM3FO（outdoor unit）

Cooling mode **Port: Power Cord- L1 line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.21300	45.3	-17.7
0.30300	40.4	-19.7
0.90150	42.5	-13.4
1.09950	41.1	-14.8
2.38200	37.7	-18.2
4.17750	26.6	-29.3
8.71800	30.1	-29.8

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	46.8	-11.8
0.55950	27.0	-18.9
0.91500	37.4	-8.5
1.10850	36.1	-9.8
2.26500	33.1	-12.8
4.25850	21.7	-24.2
8.61900	25.2	-24.7

Model: GUHD36NM3FO（outdoor unit）

Cooling mode **Port: Power Cord- L2 line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.16350	51.7	-13.5
0.34800	41.8	-17.2
0.59550	34.6	-21.3
1.72950	39.7	-16.2
2.13900	37.8	-18.1
4.13250	27.4	-28.5
8.76750	29.5	-30.5

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15000	46.6	-12.3
0.55050	26.8	-19.1
1.08600	35.3	-10.6
1.10400	36.2	-9.7
2.28300	33.4	-12.5
4.12350	22.1	-23.8
8.66850	25.1	-24.9

Model: GUHD36NM3FO（outdoor unit）

Cooling mode **Port: Power Cord- L3 line**

Final measurement results

Frequency MHz	QP Level dB	Delta Limit dB
0.15000	49.9	-16.0
0.55500	34.4	-21.5
1.08600	44.4	-11.6
1.52250	44.3	-11.6
2.32800	42.1	-13.8
4.20900	27.6	-28.3
11.84100	33.3	-26.6

Frequency MHz	AV Level dB	Delta Limit dB
0.15000	44.8	-14.1
0.56400	29.7	-16.2
1.09050	39.6	-6.3
1.49550	38.9	-7.0
2.24700	37.2	-8.7
4.11450	23.1	-22.8
11.12100	25.2	-24.7

Model: GUHD36NM3FO（outdoor unit）

Cooling mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.18600	49.7	-14.5
0.31650	44.9	-14.9
0.70800	37.2	-18.7
1.54950	43.7	-12.2
2.16150	41.4	-14.5
4.22250	24.5	-31.4
10.38300	28.7	-31.2

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	43.9	-14.7
0.54150	30.6	-15.3
1.06800	32.2	-13.7
1.54500	37.9	-8.0
2.27400	36.6	-9.3
4.11900	20.2	-25.7
8.68200	24.1	-25.8

Model: GUHD36NM3FO（outdoor unit）

Heating mode **Port: Power Cord- L1 line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.17700	49.1	-15.5
0.30750	41.3	-18.7
0.90600	42.4	-13.5
1.10400	41.1	-14.8
2.42250	37.6	-18.3
4.18200	26.7	-29.2
8.77650	30.1	-29.8

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	46.7	-11.9
0.47850	28.1	-18.4
0.90150	37.2	-8.7
1.10400	36.1	-9.8
2.28300	33.2	-12.8
4.44750	20.8	-25.1
8.68200	25.1	-24.8

Model: GUHD36NM3FO（outdoor unit）

Heating mode **Port: Power Cord- L2line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.17700	48.4	-16.1
0.30750	37.8	-22.2
1.09050	40.9	-15.0
1.72500	39.6	-16.3
2.13900	37.7	-18.2
4.16850	27.0	-28.9
8.74500	29.6	-30.3

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	45.8	-12.9
0.56400	27.0	-18.9
1.08600	35.5	-10.4
1.09950	36.1	-9.8
2.29650	33.0	-12.9
4.15500	21.7	-24.3
8.64150	24.9	-25.0

Model: GUHD36NM3FO（outdoor unit）

Heating mode **Port: Power Cord- L3line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15900	49.1	-16.4
0.55950	34.7	-21.2
0.89700	43.5	-12.4
1.51800	44.1	-11.8
2.28750	42.3	-13.6
4.12350	28.2	-27.7
11.38650	33.6	-26.3

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	44.8	-13.8
0.55950	29.2	-16.7
1.09050	39.4	-6.5
1.52700	39.3	-6.6
2.39100	37.0	-8.9
4.13700	22.8	-23.1
8.69100	24.5	-25.4

Model: GUHD36NM3FO（outdoor unit）

Heating mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.16350	51.5	-13.8
0.53700	40.1	-15.8
0.57750	38.7	-17.2
1.55850	43.5	-12.4
2.39550	41.8	-14.1
4.15950	25.8	-30.2
11.84100	31.0	-28.9

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	44.0	-14.6
0.55050	30.2	-15.7
0.87900	31.4	-14.5
1.55850	38.3	-7.7
2.33700	37.0	-8.9
4.12350	20.9	-25.0
8.79450	24.3	-25.6

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Model: GUHD42NM3FO（outdoor unit）

Cooling mode **Port: Power Cord- L1 line**

Final measurement results

Frequency MHz	QP Level dB	Delta Limit dB
0.15000	50.7	-15.2
0.30750	34.7	-25.3
0.81600	46.1	-9.8
1.09500	42.1	-13.8
2.34600	37.2	-18.8
7.71000	30.6	-29.3
9.06900	31.7	-28.2

Frequency MHz	AV Level dB	Delta Limit dB
0.15450	45.3	-13.3
0.46950	25.5	-21.1
0.81600	41.5	-4.4
1.09950	36.9	-9.0
2.38650	32.1	-13.8
7.77750	26.0	-23.9
8.41650	27.2	-22.7

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Model: GUHD42NM3FO（outdoor unit）

Cooling mode **Port: Power Cord- L2 line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15000	51.1	-14.8
0.47850	29.6	-26.7
0.81600	46.1	-9.8
1.09500	40.0	-16.0
2.43150	36.9	-19.0
7.97100	29.8	-30.1
8.47500	31.3	-28.6

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15000	45.6	-13.3
0.50100	23.2	-22.7
0.81150	41.5	-4.4
1.09500	35.0	-10.9
2.32800	32.7	-13.2
7.72800	25.2	-24.8
8.58300	26.4	-23.6

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Model: GUHD42NM3FO（outdoor unit）

Cooling mode **Port: Power Cord- L3 line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15450	50.2	-15.5
0.56400	32.2	-23.7
0.81600	47.2	-8.8
1.09500	42.9	-13.0
2.35050	42.7	-13.2
4.32150	28.7	-27.2

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	44.8	-13.8
0.55950	27.0	-18.9
0.81600	42.5	-3.4
1.09500	38.0	-7.9
2.35500	37.8	-8.1
4.50600	25.0	-21.0

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Model: GUHD42NM3FO（outdoor unit）

Cooling mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.16800	46.0	-19.1
0.47400	34.0	-22.4
0.80700	43.7	-12.2
2.08500	39.7	-16.2
2.39550	42.3	-13.6
4.47000	28.7	-27.2

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15000	43.2	-15.7
0.47400	28.8	-17.8
0.80700	38.7	-7.2
2.12100	35.2	-10.7
2.34600	37.6	-8.3
4.50600	24.0	-22.0

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Model: GUHD42NM3FO（outdoor unit）

Heating mode **Port: Power Cord- L1 line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15450	50.9	-14.8
0.31200	36.4	-23.5
0.82500	45.8	-10.1
1.09500	42.2	-13.7
2.36850	37.4	-18.5
7.68300	30.8	-29.1
8.50650	32.0	-27.9

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	45.4	-13.2
0.47400	26.0	-20.6
0.81150	41.4	-4.5
1.09500	37.5	-8.4
2.34150	32.4	-13.5
7.66950	26.0	-23.9
8.33100	27.0	-22.9

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Model: GUHD42NM3FO（outdoor unit）

Heating mode **Port: Power Cord- L2 line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15000	51.2	-14.8
0.29400	31.6	-28.8
0.82050	46.1	-9.8
1.09500	40.0	-16.0
2.26500	38.0	-18.0
7.71000	30.3	-29.6
8.72250	31.2	-28.7

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15000	45.8	-13.1
0.47400	27.2	-19.4
0.81150	41.5	-4.4
1.09500	35.0	-10.9
2.38200	33.0	-12.9
7.70550	25.7	-24.2
8.41200	26.7	-23.3

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Model: GUHD42NM3FO（outdoor unit）

Heating mode **Port: Power Cord- L3 line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15000	50.2	-15.7
0.55950	31.7	-24.2
0.79800	46.3	-9.6
1.09950	42.3	-13.6
2.48100	41.8	-14.1
4.43850	29.3	-26.6

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15000	45.1	-13.8
0.56400	26.9	-19.0
0.81600	42.5	-3.4
1.09500	38.1	-7.8
2.38650	37.6	-8.3
4.51950	24.8	-21.1

Model: GUHD42NM3FO（outdoor unit）

Heating mode **Port: Power Cord-N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15450	49.4	-16.3
0.52800	33.5	-22.5
0.81150	43.7	-12.2
2.01300	39.6	-16.3
2.30550	42.8	-13.1
4.70850	27.1	-28.8
9.81600	22.3	-37.6

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	43.2	-15.4
0.55500	28.0	-18.0
0.81600	38.9	-7.0
2.11650	35.9	-10.0
2.39100	37.8	-8.1
4.45200	24.3	-21.7
9.92400	16.8	-33.1

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Model: GTH42K3FI(indoor unit)

Cooling mode **Port: Power Cord- L line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15900	57.7	-7.8
0.46500	44.5	-12.0
1.07250	44.1	-11.8
1.94100	44.9	-11.0
3.74550	45.9	-10.0
4.18650	41.5	-14.4
11.53950	49.8	-10.1

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15900	48.9	-9.4
0.53700	36.7	-9.2
0.80250	39.6	-6.3
1.77000	40.4	-5.5
2.67900	39.3	-6.6
4.15500	36.0	-9.9
11.53950	44.9	-5.0

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Model: GTH42K3FI(indoor unit)

Cooling mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dB	Delta Limit dB
0.15900	57.9	-7.6
0.46950	42.7	-13.8
0.57300	44.7	-11.2
1.99050	44.1	-11.8
3.72300	45.5	-10.4
4.13700	42.8	-13.1
11.27400	48.2	-11.7
15.66150	26.8	-33.1

Frequency MHz	AV Level dB	Delta Limit dB
0.15900	49.8	-8.5
0.53700	37.3	-8.6
0.69900	39.2	-6.7
1.51800	37.0	-8.9
3.57900	39.4	-6.5
4.13250	37.2	-8.8
11.34600	43.0	-6.9

Model: GTH42K3FI(indoor unit)

Heating mode **Port: Power Cord- L line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.16350	56.0	-9.3
0.48300	42.6	-13.6
0.76650	45.0	-10.9
1.96800	43.7	-12.2
3.32250	45.8	-10.1
4.20000	40.2	-15.7
10.87350	48.7	-11.2

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15900	49.0	-9.4
0.55500	38.7	-7.2
0.76650	41.6	-4.3
1.51800	39.2	-6.7
2.48100	40.4	-5.5
4.11450	35.9	-10.0
10.87800	43.8	-6.1

Model: GTH42K3FI(indoor unit)

Heating mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.16350	57.0	-8.2
0.55500	45.5	-10.5
0.62700	45.5	-10.4
2.05800	45.6	-10.3
3.59700	45.4	-10.5
4.13700	42.0	-14.0
11.41800	48.7	-11.2
15.55350	27.5	-32.4

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15900	49.7	-8.6
0.55500	40.8	-5.1
0.91050	38.2	-7.7
1.16250	39.7	-6.2
2.46750	39.7	-6.3
4.17750	35.9	-10.0
11.41800	44.2	-5.7

THIS TEST REPORT IS RESPONSIBLE FOR THE SAMPLE TESTED ONLY AND SHOULD NOT BE DUPLICATED IN PART WITHOUT PERMISSION OF THE TEST LAB

Model: GKH42K3FI(indoor unit)

Cooling mode **Port: Power Cord- L line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.16350	49.3	-15.9
0.46050	38.8	-17.9
0.95100	34.9	-21.0
1.14450	30.6	-25.3
3.41250	33.5	-22.4
4.79400	29.9	-26.0
10.64850	38.3	-21.6
22.45650	41.3	-18.7

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15000	39.4	-19.5
0.47400	35.3	-11.4
0.73950	31.5	-14.4
1.11750	26.6	-19.3
3.79050	28.7	-17.2
4.75800	25.0	-21.0
10.60350	33.4	-16.5
22.32150	35.5	-14.4

THIS TEST REPORT IS RESPONSIBLE FOR THE SAMPLE TESTED ONLY AND SHOULD NOT BE DUPLICATED IN PART WITHOUT PERMISSION OF THE TEST LAB

Model: GKH42K3FI(indoor unit)

Cooling mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15000	51.7	-14.2
0.46500	39.0	-17.6
0.96900	33.8	-22.1
1.09950	31.1	-24.8
3.75900	34.2	-21.7
4.11450	31.3	-24.6
11.33700	38.4	-21.5
22.80300	41.3	-18.6

Frequency MHz	AV Level dBuV	Delta Limit dB
0.16350	36.1	-21.9
0.47400	33.5	-13.1
0.73950	29.4	-16.5
1.17150	26.2	-19.7
3.71400	29.3	-16.6
4.11900	26.5	-19.4
10.63950	33.6	-16.3
22.94700	36.5	-13.4

THIS TEST REPORT IS RESPONSIBLE FOR THE SAMPLE TESTED ONLY AND SHOULD NOT BE DUPLICATED IN PART WITHOUT PERMISSION OF THE TEST LAB

Model: GKH42K3FI(indoor unit)

Heating mode **Port: Power Cord- L line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.16350	49.3	-15.9
0.46950	39.3	-17.2
0.96900	34.2	-21.7
1.11300	31.6	-24.3
3.80400	33.8	-22.1
4.57800	30.1	-25.8
10.05450	38.1	-21.8
22.45650	41.0	-19.0

Frequency MHz	AV Level dBuV	Delta Limit dB
0.16350	35.4	-22.7
0.47400	35.4	-11.2
0.77100	30.7	-15.2
1.14450	26.6	-19.4
3.80400	28.9	-17.0
4.11450	26.1	-19.8
10.56300	33.6	-16.3
22.83450	35.1	-14.8

THIS TEST REPORT IS RESPONSIBLE FOR THE SAMPLE TESTED ONLY AND SHOULD NOT BE DUPLICATED IN PART WITHOUT PERMISSION OF THE TEST LAB

Model: GKH42K3FI(indoor unit)

Heating mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.16350	50.1	-15.2
0.46950	39.0	-17.4
1.00050	34.2	-21.7
1.09500	30.6	-25.3
3.43050	34.2	-21.7
4.16850	30.6	-25.3
10.81500	38.3	-21.6
22.45650	41.8	-18.1

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15000	39.8	-19.1
0.47400	35.2	-11.4
0.73950	28.6	-17.3
1.14450	26.7	-19.2
3.49350	29.2	-16.7
4.72200	26.3	-19.7
10.59000	33.8	-16.1
22.97850	36.7	-13.2

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Model: GFH42K3FI(indoor unit)

Cooling mode **Port: Power Cord- L line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15450	58.7	-7.0
0.32100	38.2	-21.5
0.57300	33.3	-22.6
1.93200	37.4	-18.5
2.93550	35.3	-20.7
6.89100	38.5	-21.4
8.52450	40.6	-19.3

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	44.9	-13.7
0.46050	37.0	-9.9
1.04100	32.8	-13.1
1.91400	34.1	-11.8
2.53050	33.7	-12.2
4.98300	32.1	-13.8
8.05650	36.3	-13.6

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Model: GFH42K3FI(indoor unit)

Cooling mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15450	57.5	-8.2
0.46950	41.8	-14.7
1.04550	35.1	-20.8
1.96800	37.3	-18.6
2.38200	37.1	-18.8
4.96950	34.1	-21.8
9.12300	38.0	-21.9

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	43.1	-15.6
0.45150	38.0	-9.0
1.04100	32.1	-13.8
1.18050	30.9	-15.1
2.53050	32.7	-13.2
4.96950	29.0	-16.9
8.30850	34.1	-15.8

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Model: GFH42K3FI(indoor unit)

Heating mode **Port: Power Cord- L line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15450	60.3	-5.4
0.45600	43.2	-13.6
1.05000	35.9	-20.0
2.05800	38.5	-17.4
2.27400	38.1	-17.8
7.96650	40.8	-19.1
8.01150	41.2	-18.7

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	46.1	-12.6
0.46050	36.9	-10.0
1.01400	32.9	-13.0
2.05800	33.3	-12.6
2.59800	33.2	-12.7
7.56600	36.3	-13.6
8.30400	37.5	-12.4

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Model: GFH42K3FI(indoor unit)

Heating mode **Port: Power Cord- N line**

Final measurement results

Frequency MHz	QP Level dBuV	Delta Limit dB
0.15450	59.9	-5.8
0.46500	43.1	-13.4
0.74400	28.1	-27.8
1.18950	35.4	-20.6
2.73300	36.8	-19.1
4.27650	32.8	-23.1
8.71350	39.4	-20.6

Frequency MHz	AV Level dBuV	Delta Limit dB
0.15450	45.9	-12.7
0.45150	38.4	-8.6
1.06800	33.3	-12.6
1.99950	31.6	-14.3
2.56200	33.3	-12.6
5.02350	30.6	-15.3
8.11950	35.9	-14.1

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According to EN55014.1, for terminal disturbance voltage, the test start frequency shall be obtained per the formula: f start=60/L (MHz), so, here, the f start=60/8.0 =7.5 MHz. Where, the length of interconnection line is 8.0 meters.

Cooling mode **Port:** Interconnection line at indoor unit

Final measurement results

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	TV-QP			
Trace2:	TV-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1 Quasi Peak	6.076 MHz	60.91	L1 gnd	-13.08
2 Average	6.096 MHz	55.48	L1 gnd	-8.51
2 Average	8.508 MHz	51.42	L1 gnd	-12.57
1 Quasi Peak	8.524 MHz	58.04	L1 gnd	-15.95
1 Quasi Peak	10.276 MHz	47.74	L1 gnd	-26.26
2 Average	10.284 MHz	42.89	L1 gnd	-21.11
2 Average	15.86 MHz	44.92	L1 gnd	-19.08
1 Quasi Peak	15.98 MHz	51.37	L1 gnd	-22.62
1 Quasi Peak	20.012 MHz	55.19	L1 gnd	-18.80
2 Average	20.028 MHz	47.42	L1 gnd	-16.57
1 Quasi Peak	28.716 MHz	47.81	L1 gnd	-26.18
2 Average	28.716 MHz	41.51	L1 gnd	-22.48

Additional terminal:

Cooling mode **Port:** Interconnection line at outdoor unit

Final measurement results

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	TV-QP			
Trace2:	TV-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1 Quasi Peak	6 MHz	57.64	L1 gnd	-16.35
2 Average	6.26 MHz	51.71	L1 gnd	-12.28
1 Quasi Peak	7.856 MHz	54.45	L1 gnd	-19.55
2 Average	7.888 MHz	48.54	L1 gnd	-15.45
1 Quasi Peak	10.66 MHz	48.28	L1 gnd	-25.72
2 Average	10.712 MHz	42.98	L1 gnd	-21.01
1 Quasi Peak	19.876 MHz	51.27	L1 gnd	-22.72
2 Average	19.928 MHz	43.72	L1 gnd	-20.27

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Additional terminal:

Heating mode **Port: Interconnection line at indoor unit**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)					
Trace1:		TV-QP			
Trace2:		TV-AV			
Trace3:		---			
TRACE		FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	6.004 MHz	57.98	L1 gnd	-16.01
2	Average	6.004 MHz	52.77	L1 gnd	-11.22
2	Average	8.528 MHz	51.84	L1 gnd	-12.15
1	Quasi Peak	8.564 MHz	58.99	L1 gnd	-15.00
1	Quasi Peak	10.624 MHz	47.80	L1 gnd	-26.19
2	Average	10.624 MHz	42.33	L1 gnd	-21.66
1	Quasi Peak	15.64 MHz	51.12	L1 gnd	-22.87
2	Average	15.7 MHz	45.01	L1 gnd	-18.98
1	Quasi Peak	19.932 MHz	54.98	L1 gnd	-19.01
2	Average	20.012 MHz	48.26	L1 gnd	-15.73
2	Average	28.736 MHz	40.13	L1 gnd	-23.86
1	Quasi Peak	28.796 MHz	48.12	L1 gnd	-25.88

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Additional terminal:

Heating mode **Port: Interconnection line at outdoor unit**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)					
Trace1:	TV-QP				
Trace2:	TV-AV				
Trace3:	---				
TRACE		FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	6.016 MHz	56.32	L1 gnd	-17.67
2	Average	6.056 MHz	51.17	L1 gnd	-12.82
1	Quasi Peak	7.92 MHz	55.34	L1 gnd	-18.65
2	Average	7.92 MHz	48.74	L1 gnd	-15.25
1	Quasi Peak	10.656 MHz	47.86	L1 gnd	-26.13
2	Average	10.768 MHz	42.43	L1 gnd	-21.56
1	Quasi Peak	19.836 MHz	48.40	L1 gnd	-25.59
2	Average	19.912 MHz	42.84	L1 gnd	-21.15

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4.2 Discontinuous Interference on AC Mains

Date of testing	:	2013.08.15
Temperature	:	24°C~26°C
Humidity	:	66%RH~67%RH
Test procedure	:	EN55014-1: 2006+A1:2009+A2:2011
Frequency range	:	0.15M – 30MHz
Kind of test site	:	Shielded room
Operational mode	:	Dry
Test result	:	Pass

1.Test Setup

The EUT is on an insulating plane (height=80cm)
The distance between EUT and L.I.S.N is 80cm.
The distance between EUT and other metal conductors grounded is at least 80cm.

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2. Test results.

Model: GUHD42NM3FO（outdoor unit）					
Run A (Observation time=120Mins0Sec)					
Frequency (MHz)		0.15	0.5	1.4	30
Limit value (L)(**dB**μV)		66	56	56	60
Amount of clicks >L	Short (n1)	3	2	1	0
	Long (n2)	0	0	0	0
Total (n=n1+n2)		3	2	1	0
Click Rate (N=n/T)		0. 03	0. 02	0. 01	0.00
Continuous(s)		0	0	0	0
Switching operations		---			
f factor		N/A			
Result		PASS			
Model: GFH42K3FI(indoor unit)					
Run A (Observation time=120Mins0Sec)					
Frequency (MHz)		0.15	0.5	1.4	30
Limit value (L)(**dB**μV)		66	56	56	60
Amount of clicks >L	Short (n1)	32	24	11	0
	Long (n2)	0	0	0	0
Total (n=n1+n2)		32	24	11	0
Click Rate (N=n/T)		0. 27	0. 20	0. 09	0.00
Continuous(s)		0	0	0	0
Switching operations		---			
f factor		N/A			
Result		PASS			
Model: GTH42K3FI(indoor unit)					
Run A (Observation time=120Mins0Sec)					
Frequency (MHz)		0.15	0.5	1.4	30
Limit value (L)(**dB**μV)		66	56	56	60
Amount of clicks >L	Short (n1)	31	23	10	0
	Long (n2)	0	0	0	0
Total (n=n1+n2)		31	23	10	0
Click Rate (N=n/T)		0. 26	0. 19	0. 08	0.00
Continuous(s)		0	0	0	0
Switching operations		---			
f factor		N/A			
Result		PASS			

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Model: GKH42K3FI(indoor unit)					
Run A (Observation time=120Mins0Sec)					
Frequency (MHz)		0.15	0.5	1.4	30
Limit value (L)(**dB**μV)		66	56	56	60
Amount of clicks >L	Short (n1)	31	23	10	0
	Long (n2)	0	0	0	0
Total (n=n1+n2)		31	23	10	0
Click Rate (N=n/T)		0. 26	0. 19	0. 08	0.00
Continuous(s)		0	0	0	0
Switching operations		---			
f factor		N/A			
Result		PASS			
Model: GUHD36NM3FO（outdoor unit）					
Run A (Observation time=120Mins0Sec)					
Frequency (MHz)		0.15	0.5	1.4	30
Limit value (L)(**dB**μV)		66	56	56	60
Amount of clicks >L	Short (n1)	3	2	1	0
	Long (n2)	0	0	0	0
Total (n=n1+n2)		3	2	1	0
Click Rate (N=n/T)		0. 03	0. 12	0. 01	0.00
Continuous(s)		0	0	0	0
Switching operations		---			
f factor		N/A			
Result		PASS			

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4.3 Disturbance Power

Date of testing	:	2013.08.15
Temperature	:	25°C/18°C
Operational mode	:	Cool /Heat, High speed
Humidity	:	65%RH~67%RH
Test procedure	:	EN55014-1: 2006+A1:2009+A2:2011
Frequency range	:	30M - 300MHz
Kind of test site	:	Shielded room
Test ports	:	AC Mains/ Interconnection line
Test result	:	Pass

1.Test Setup:

EUT and absorbing clamp are placed on an insulating plane (height=80cm). The distance between the absorbing clamp and other metal conductors grounded is 40cm above. EUT is connected to A.C power through an extended cord(≧6m). The absorbing clamp clamps the power line and moves along the power line to measure the maximum disturbance power emitted from the line. If EUT has an indoors unit and an outdoors unit, its interconnection lines and signal lines(or controlling lines) should be also measured ,too.

2.If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector has been omitted.

The power cord and interconnection line had been extended to a length of 6m and routed through an absorbing clamp. The clamp was moved along the cable to find the maximal emission.

Disturbances other than those mentioned are small or not detectable.

Receiver setup:

Detector:Peak+Average, IF-BW: 120kHz, Step: 60kHz, M-Time: 10ms.

The frequency spectra are as follows:

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Model: GUHD36NM3FO（outdoor unit）

Cooling mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)

Trace1:	P14-QP
Trace2:	P14-AV
Trace3:	---

TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	65.04 MHz	31.56	-14.73
2 Average	65.12 MHz	14.89	-21.40
2 Average	127.16 MHz	10.88	-27.71
1 Quasi Peak	130.48 MHz	20.12	-28.59
1 Quasi Peak	210.8 MHz	14.04	-37.64
2 Average	246.92 MHz	7.26	-35.77

Model: GUHD36NM3FO（outdoor unit）

Heating mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	61.2 MHz	14.45	-21.69
1 Quasi Peak	62.4 MHz	29.59	-16.60
1 Quasi Peak	120.96 MHz	18.86	-29.50
2 Average	122.64 MHz	11.71	-26.71
1 Quasi Peak	216.48 MHz	13.84	-38.06
2 Average	246.92 MHz	7.27	-35.75

Model: GUHD42NM3FO（outdoor unit）

Cooling mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	34 MHz	37.43	-7.71
2 Average	34.16 MHz	23.49	-11.65
1 Quasi Peak	53.2 MHz	37.71	-8.14
2 Average	53.24 MHz	20.54	-15.31
1 Quasi Peak	67.24 MHz	29.29	-17.08
1 Quasi Peak	101.96 MHz	34.92	-12.73
1 Quasi Peak	102.24 MHz	34.58	-13.09

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Model: GUHD42NK3FO（outdoor unit）

Heating mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	33.96 MHz	24.49	-10.65
1 Quasi Peak	42 MHz	35.03	-10.41
2 Average	56.48 MHz	20.82	-15.15
1 Quasi Peak	59.8 MHz	32.43	-13.66
1 Quasi Peak	66.2 MHz	29.09	-17.24
1 Quasi Peak	101.96 MHz	35.86	-11.79
1 Quasi Peak	103.44 MHz	34.50	-13.21

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Model: GUHD42NM3FO（outdoor unit）

Cooling mode **Port: Interconnection line, at indoor unit.**

Heating mode **Port: Interconnection line, at indoor unit.**

Model: GUHD42NM3FO（outdoor unit）

Cooling mode **Port: Interconnection line, at outdoor unit.**

Heating mode **Port: Interconnection line, at outdoor unit.**

Model: GTH42K3FI(indoor unit)

Cooling mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	40.36 MHz	38.13	-7.24
2 Average	41.44 MHz	24.93	-10.48
1 Quasi Peak	97.56 MHz	25.84	-21.65
1 Quasi Peak	121.76 MHz	22.83	-25.56

Model: GTH42K3FI(indoor unit)

Heating mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	41.08 MHz	36.56	-8.84
2 Average	41.08 MHz	22.81	-12.59
1 Quasi Peak	89.48 MHz	24.85	-22.34
1 Quasi Peak	129.6 MHz	22.38	-26.30

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Model: GFH42K3FI(indoor unit)

Cooling mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	37.72 MHz	37.05	-8.23
2 Average	37.84 MHz	25.67	-9.61
1 Quasi Peak	53.2 MHz	32.61	-13.24
1 Quasi Peak	75.84 MHz	32.85	-13.84
2 Average	75.84 MHz	26.13	-10.56
1 Quasi Peak	101.16 MHz	30.90	-16.73
2 Average	101.16 MHz	25.12	-12.50
1 Quasi Peak	102.68 MHz	26.18	-21.50
1 Quasi Peak	122.72 MHz	24.59	-23.83

Model: GFH42K3FI(indoor unit)

Heating mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	36.76 MHz	34.53	-10.71
2 Average	38.24 MHz	23.41	-11.89
1 Quasi Peak	53.24 MHz	30.42	-15.44
1 Quasi Peak	66.04 MHz	30.89	-15.44
2 Average	75.84 MHz	25.33	-11.36
1 Quasi Peak	87.64 MHz	29.86	-17.26
1 Quasi Peak	119.44 MHz	22.78	-25.52
1 Quasi Peak	124.84 MHz	25.68	-22.83

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Model: GKH42K3FI(indoor unit)

Cooling mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	30.28 MHz	33.00	-12.00
2 Average	30.28 MHz	22.77	-12.23
1 Quasi Peak	60.68 MHz	40.60	-5.53
2 Average	60.84 MHz	28.26	-7.87
1 Quasi Peak	78.68 MHz	28.85	-17.95
1 Quasi Peak	86.64 MHz	32.84	-14.25
2 Average	95.12 MHz	23.02	-14.39
1 Quasi Peak	102.56 MHz	29.70	-17.98
1 Quasi Peak	125.56 MHz	28.81	-19.72

THIS TEST REPORT IS RESPONSIBLE FOR THE SAMPLE TESTED ONLY AND SHOULD NOT BE DUPLICATED IN PART WITHOUT PERMISSION OF THE TEST LAB

Model: GKH42K3FI(indoor unit)

Heating mode **Port: Power Cord**

Final measurement results

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	P14-QP		
Trace2:	P14-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	30.16 MHz	33.66	-11.34
2 Average	30.16 MHz	23.54	-11.46
2 Average	60.4 MHz	27.28	-8.84
1 Quasi Peak	60.64 MHz	39.87	-6.25
1 Quasi Peak	78.92 MHz	29.52	-17.28
2 Average	87.04 MHz	22.18	-14.93
1 Quasi Peak	99.08 MHz	28.95	-18.60
1 Quasi Peak	110.36 MHz	31.25	-16.71
1 Quasi Peak	123.2 MHz	30.26	-18.19

THIS TEST REPORT IS RESPONSIBLE FOR THE SAMPLE TESTED ONLY AND SHOULD NOT BE DUPLICATED IN PART WITHOUT PERMISSION OF THE TEST LAB

Model: wired controller

Cooling mode **Port: Interconnection line, Near wired controller**

Heating mode **Port: Interconnection line, Near wired controller**

Model: wired controller

Cooling mode **Port: Interconnection line, Away from wired controller**

Heating mode **Port: Interconnection line, Away from wired controller**

4.4 Harmonics on AC Mains

Date of testing	:	2013.08.15
Temperature	:	25°C/18°C
Humidity	:	66%RH~67%RH
Test procedure	:	EN61000-3-2: 2006+A1:2009+A2:2009
Harmonics order	:	2 – 40
Equipment Class	:	A
Operational mode	:	Cool /Heat, High speed
Test result	:	Pass

1.Test Setup:

2. Test result.

The test results are shown as follows:

.

Model: GUHD36NM3FO（outdoor unit）

Cooling mode

Phase A

Test Result: Pass **Source qualification: Normal**

THC(A): 1.44 **I-THD(%): 18.19** **POHC(A): 0.068** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**230.26**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**16.544**	**I_RMS (Amps):**	**8.462**
I_Fund (Amps):	**8.302**	**Crest Factor:**	**1.977**
Power (Watts):	**1912**	**Power Factor:**	**0.986**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.128	1.080	11.8	0.138	1.620	8.50	Pass
3	1.200	2.300	52.2	1.218	3.450	35.29	Pass
4	0.026	0.430	6.1	0.030	0.645	4.60	Pass
5	0.691	1.140	60.6	0.701	1.710	41.02	Pass
6	0.022	0.300	7.2	0.025	0.450	5.51	Pass
7	0.274	0.770	35.6	0.280	1.155	24.26	Pass
8	0.023	0.230	10.2	0.027	0.345	7.74	Pass
9	0.178	0.400	44.5	0.183	0.600	30.52	Pass
10	0.019	0.184	10.2	0.023	0.276	8.33	Pass
11	0.101	0.330	30.5	0.105	0.495	21.18	Pass
12	0.016	0.153	10.8	0.018	0.230	7.97	Pass
13	0.048	0.210	23.0	0.051	0.315	16.09	Pass
14	0.012	0.131	9.4	0.014	0.197	7.10	Pass
15	0.033	0.150	21.9	0.036	0.225	16.17	Pass
16	0.010	0.115	8.5	0.011	0.173	6.50	Pass
17	0.039	0.132	29.8	0.041	0.199	20.80	Pass
18	0.009	0.102	8.7	0.010	0.153	6.66	Pass
19	0.031	0.118	26.1	0.032	0.178	18.18	Pass
20	0.014	0.092	15.2	0.016	0.138	11.39	Pass
21	0.026	0.107	24.7	0.028	0.161	17.09	Pass
22	0.007	0.084	8.6	0.008	0.125	6.52	Pass
23	0.025	0.098	25.7	0.026	0.147	17.99	Pass
24	0.013	0.077	16.4	0.015	0.115	13.24	Pass
25	0.023	0.090	25.7	0.025	0.135	18.78	Pass
26	0.021	0.071	29.3	0.026	0.106	24.56	Pass
27	0.025	0.083	29.8	0.029	0.125	23.03	Pass
28	0.006	0.066	8.9	0.007	0.099	6.93	Pass
29	0.013	0.078	16.5	0.014	0.116	11.89	Pass
30	0.034	0.061	56.1	0.043	0.092	47.22	Pass
31	0.028	0.073	38.1	0.037	0.109	33.71	Pass
32	0.015	0.058	25.3	0.019	0.086	21.93	Pass
33	0.017	0.068	24.7	0.019	0.102	19.10	Pass
34	0.007	0.054	12.1	0.008	0.081	9.49	Pass
35	0.010	0.064	16.0	0.011	0.096	11.61	Pass
36	0.033	0.051	63.9	0.041	0.077	53.88	Pass
37	0.027	0.061	44.2	0.036	0.091	39.22	Pass
38	0.010	0.048	21.3	0.013	0.073	18.29	Pass
39	0.013	0.058	22.5	0.014	0.087	15.88	Pass
40	0.013	0.046	27.9	0.019	0.069	27.23	Pass

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Model: GUHD36NM3FO（outdoor unit）

Cooling mode

Phase B

Test Result: Pass **Source qualification: Normal**

THC(A): 0.223 **I-THD(%): 3.404** **POHC(A): 0.035** **POHC Limit(A): 0.243**

Highest parameter values during test:

V_RMS (Volts):	**229.86**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**11.193**	**I_RMS (Amps):**	**6.983**
I_Fund (Amps):	**6.956**	**Crest Factor:**	**1.638**
Power (Watts):	**1598**	**Power Factor:**	**0.999**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.120	1.080	11.1	0.126	1.620	7.79	Pass
3	0.129	2.300	5.6	0.138	3.450	4.01	Pass
4	0.012	0.430	2.9	0.015	0.645	2.39	Pass
5	0.061	1.140	5.4	0.065	1.710	3.79	Pass
6	0.041	0.300	13.5	0.043	0.450	9.48	Pass
7	0.071	0.770	9.2	0.073	1.155	6.36	Pass
8	0.017	0.230	7.4	0.020	0.345	5.85	Pass
9	0.049	0.400	12.2	0.055	0.600	9.09	Pass
10	0.016	0.184	8.9	0.019	0.276	7.06	Pass
11	0.041	0.330	12.4	0.044	0.495	8.91	Pass
12	0.020	0.153	12.8	0.023	0.230	9.90	Pass
13	0.021	0.210	10.0	0.026	0.315	8.30	Pass
14	0.015	0.131	11.7	0.018	0.197	9.15	Pass
15	0.013	0.150	8.4	0.014	0.225	6.43	Pass
16	0.011	0.115	9.5	0.013	0.173	7.34	Pass
17	0.008	0.132	6.4	0.009	0.199	4.76	Pass
18	0.010	0.102	9.3	0.011	0.153	7.14	Pass
19	0.008	0.118	6.3	0.009	0.178	5.05	Pass
20	0.013	0.092	14.6	0.015	0.138	10.68	Pass
21	0.006	0.107	6.0	0.007	0.161	4.64	Pass
22	0.007	0.084	8.0	0.008	0.125	6.15	Pass
23	0.005	0.098	5.5	0.006	0.147	4.24	Pass
24	0.008	0.077	10.0	0.009	0.115	7.94	Pass
25	0.007	0.090	8.0	0.009	0.135	6.41	Pass
26	0.008	0.071	11.3	0.010	0.106	9.34	Pass
27	0.007	0.083	8.6	0.009	0.125	7.12	Pass
28	0.004	0.066	6.7	0.005	0.099	5.06	Pass
29	0.004	0.078	5.8	0.005	0.116	4.33	Pass
30	0.016	0.061	26.7	0.021	0.092	22.52	Pass
31	0.013	0.073	18.0	0.017	0.109	15.62	Pass
32	0.010	0.058	17.5	0.012	0.086	14.33	Pass
33	0.008	0.068	11.1	0.010	0.102	9.90	Pass
34	0.005	0.054	9.3	0.006	0.081	7.57	Pass
35	0.005	0.064	7.1	0.005	0.096	5.71	Pass
36	0.018	0.051	36.0	0.023	0.077	29.67	Pass
37	0.015	0.061	24.6	0.020	0.091	21.93	Pass
38	0.010	0.048	21.2	0.014	0.073	18.77	Pass
39	0.008	0.058	14.3	0.009	0.087	10.72	Pass
40	0.014	0.046	29.5	0.021	0.069	29.82	Pass

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Model: GUHD36NM3FO（outdoor unit）

Cooling mode

Phase C

Test Result: Pass **Source qualification: Normal**

THC(A): 0.321 **I-THD(%): 4.931** **POHC(A): 0.046** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**230.15**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**11.439**	**I_RMS (Amps):**	**6.952**
I_Fund (Amps):	**6.918**	**Crest Factor:**	**1.666**
Power (Watts):	**1591**	**Power Factor:**	**0.998**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.121	1.080	11.2	0.128	1.620	7.89	Pass
3	0.214	2.300	9.3	0.223	3.450	6.45	Pass
4	0.020	0.430	4.5	0.023	0.645	3.52	Pass
5	0.055	1.140	4.9	0.058	1.710	3.41	Pass
6	0.059	0.300	19.8	0.063	0.450	13.99	Pass
7	0.071	0.770	9.2	0.076	1.155	6.54	Pass
8	0.034	0.230	14.7	0.039	0.345	11.26	Pass
9	0.125	0.400	31.2	0.132	0.600	21.94	Pass
10	0.024	0.184	13.1	0.028	0.276	10.15	Pass
11	0.071	0.330	21.6	0.076	0.495	15.27	Pass
12	0.031	0.153	20.3	0.035	0.230	15.13	Pass
13	0.022	0.210	10.7	0.027	0.315	8.52	Pass
14	0.019	0.131	14.7	0.022	0.197	11.35	Pass
15	0.015	0.150	10.2	0.017	0.225	7.67	Pass
16	0.016	0.115	13.9	0.018	0.173	10.67	Pass
17	0.015	0.132	11.1	0.017	0.199	8.58	Pass
18	0.012	0.102	12.0	0.014	0.153	9.10	Pass
19	0.010	0.118	8.8	0.013	0.178	7.07	Pass
20	0.021	0.092	23.2	0.025	0.138	17.82	Pass
21	0.009	0.107	8.5	0.011	0.161	6.69	Pass
22	0.009	0.084	11.3	0.011	0.125	8.70	Pass
23	0.008	0.098	8.5	0.010	0.147	6.58	Pass
24	0.010	0.077	12.7	0.011	0.115	9.64	Pass
25	0.009	0.090	9.5	0.010	0.135	7.53	Pass
26	0.036	0.071	50.8	0.045	0.106	42.90	Pass
27	0.027	0.083	32.5	0.038	0.125	30.17	Pass
28	0.007	0.066	9.9	0.008	0.099	7.84	Pass
29	0.006	0.078	7.7	0.007	0.116	5.89	Pass
30	0.013	0.061	21.2	0.016	0.092	17.64	Pass
31	0.010	0.073	14.2	0.013	0.109	11.94	Pass
32	0.035	0.058	60.1	0.044	0.086	50.93	Pass
33	0.026	0.068	38.3	0.036	0.102	35.49	Pass
34	0.006	0.054	11.3	0.007	0.081	8.88	Pass
35	0.006	0.064	9.4	0.007	0.096	7.15	Pass
36	0.009	0.051	18.2	0.011	0.077	14.47	Pass
37	0.010	0.061	16.0	0.011	0.091	12.40	Pass
38	0.016	0.048	33.0	0.019	0.073	26.68	Pass
39	0.013	0.058	22.1	0.016	0.087	18.15	Pass
40	0.012	0.046	25.8	0.017	0.069	24.97	Pass

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Model: GUHD36NM3FO（outdoor unit）

Heating mode

Phase A

Test Result: Pass **Source qualification: Normal**

THC(A): 1.43 **I-THD(%): 18.21** **POHC(A): 0.067** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**230.26**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**15.371**	**I_RMS (Amps):**	**8.399**
I_Fund (Amps):	**8.258**	**Crest Factor:**	**1.903**
Power (Watts):	**1902**	**Power Factor:**	**0.986**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.126	1.080	11.7	0.136	1.620	8.37	Pass
3	1.194	2.300	51.9	1.214	3.450	35.18	Pass
4	0.024	0.430	5.7	0.028	0.645	4.42	Pass
5	0.688	1.140	60.4	0.698	1.710	40.82	Pass
6	0.020	0.300	6.7	0.025	0.450	5.53	Pass
7	0.274	0.770	35.6	0.279	1.155	24.20	Pass
8	0.022	0.230	9.8	0.025	0.345	7.14	Pass
9	0.177	0.400	44.3	0.182	0.600	30.37	Pass
10	0.018	0.184	9.7	0.021	0.276	7.58	Pass
11	0.101	0.330	30.6	0.105	0.495	21.20	Pass
12	0.016	0.153	10.7	0.019	0.230	8.04	Pass
13	0.048	0.210	23.0	0.051	0.315	16.11	Pass
14	0.012	0.131	9.1	0.014	0.197	6.87	Pass
15	0.033	0.150	21.8	0.036	0.225	16.16	Pass
16	0.010	0.115	8.5	0.011	0.173	6.38	Pass
17	0.039	0.132	29.7	0.041	0.199	20.54	Pass
18	0.009	0.102	8.5	0.010	0.153	6.56	Pass
19	0.031	0.118	25.9	0.032	0.178	17.97	Pass
20	0.014	0.092	15.2	0.016	0.138	11.31	Pass
21	0.026	0.107	24.4	0.027	0.161	17.02	Pass
22	0.007	0.084	8.3	0.008	0.125	6.42	Pass
23	0.025	0.098	25.3	0.026	0.147	17.69	Pass
24	0.013	0.077	16.9	0.016	0.115	13.70	Pass
25	0.023	0.090	25.3	0.025	0.135	18.89	Pass
26	0.020	0.071	28.8	0.026	0.106	24.16	Pass
27	0.025	0.083	29.9	0.031	0.125	24.90	Pass
28	0.006	0.066	9.2	0.007	0.099	7.00	Pass
29	0.013	0.078	16.6	0.014	0.116	11.83	Pass
30	0.035	0.061	56.7	0.043	0.092	46.67	Pass
31	0.027	0.073	37.3	0.043	0.109	39.43	Pass
32	0.015	0.058	26.5	0.019	0.086	21.62	Pass
33	0.016	0.068	24.0	0.021	0.102	20.42	Pass
34	0.007	0.054	12.5	0.008	0.081	9.56	Pass
35	0.010	0.064	15.9	0.011	0.096	11.21	Pass
36	0.033	0.051	64.8	0.041	0.077	53.54	Pass
37	0.026	0.061	42.5	0.041	0.091	44.76	Pass
38	0.010	0.048	20.9	0.013	0.073	18.24	Pass
39	0.013	0.058	22.5	0.014	0.087	16.25	Pass
40	0.013	0.046	28.7	0.019	0.069	27.29	Pass

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Model: GUHD36NM3FO（outdoor unit）

Heating mode

Phase B

Test Result: Pass **Source qualification: Normal**

THC(A): 0.223 **I-THD(%): 3.412** **POHC(A): 0.035** **POHC Limit(A): 0.243**

Highest parameter values during test:

V_RMS (Volts):	**229.85**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**11.972**	**I_RMS (Amps):**	**6.957**
I_Fund (Amps):	**6.938**	**Crest Factor:**	**1.802**
Power (Watts):	**1594**	**Power Factor:**	**0.999**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.120	1.080	11.1	0.125	1.620	7.74	Pass
3	0.128	2.300	5.6	0.139	3.450	4.04	Pass
4	0.012	0.430	2.9	0.015	0.645	2.32	Pass
5	0.062	1.140	5.5	0.067	1.710	3.94	Pass
6	0.040	0.300	13.5	0.042	0.450	9.42	Pass
7	0.071	0.770	9.2	0.074	1.155	6.38	Pass
8	0.017	0.230	7.6	0.021	0.345	6.10	Pass
9	0.048	0.400	12.1	0.053	0.600	8.80	Pass
10	0.016	0.184	8.9	0.019	0.276	6.87	Pass
11	0.041	0.330	12.4	0.044	0.495	8.85	Pass
12	0.020	0.153	12.8	0.023	0.230	9.96	Pass
13	0.021	0.210	9.9	0.025	0.315	7.94	Pass
14	0.016	0.131	11.8	0.017	0.197	8.82	Pass
15	0.013	0.150	8.4	0.015	0.225	6.55	Pass
16	0.011	0.115	9.6	0.013	0.173	7.46	Pass
17	0.008	0.132	6.4	0.010	0.199	5.09	Pass
18	0.010	0.102	9.3	0.011	0.153	6.98	Pass
19	0.008	0.118	6.4	0.009	0.178	5.13	Pass
20	0.014	0.092	14.9	0.015	0.138	10.69	Pass
21	0.006	0.107	6.0	0.007	0.161	4.65	Pass
22	0.007	0.084	8.1	0.008	0.125	6.28	Pass
23	0.005	0.098	5.5	0.007	0.147	4.45	Pass
24	0.008	0.077	10.0	0.009	0.115	7.77	Pass
25	0.007	0.090	8.2	0.009	0.135	6.95	Pass
26	0.008	0.071	11.9	0.010	0.106	9.87	Pass
27	0.007	0.083	8.3	0.010	0.125	8.05	Pass
28	0.004	0.066	7.0	0.005	0.099	5.37	Pass
29	0.005	0.078	6.0	0.005	0.116	4.58	Pass
30	0.017	0.061	27.2	0.021	0.092	22.40	Pass
31	0.013	0.073	17.4	0.020	0.109	18.04	Pass
32	0.010	0.058	17.6	0.012	0.086	14.48	Pass
33	0.008	0.068	11.1	0.012	0.102	11.53	Pass
34	0.005	0.054	9.3	0.006	0.081	7.57	Pass
35	0.004	0.064	6.9	0.005	0.096	5.37	Pass
36	0.018	0.051	36.0	0.023	0.077	29.51	Pass
37	0.015	0.061	24.8	0.023	0.091	25.07	Pass
38	0.010	0.048	21.7	0.014	0.073	18.52	Pass
39	0.008	0.058	14.7	0.010	0.087	11.44	Pass
40	0.013	0.046	28.6	0.021	0.069	29.82	Pass

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Model: GUHD36NM3FO（outdoor unit）

Heating mode

Phase C

Test Result: Pass **Source qualification: Normal**

THC(A): 0.320 **I-THD(%): 4.943** **POHC(A): 0.045** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**230.15**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**10.808**	**I_RMS (Amps):**	**6.914**
I_Fund (Amps):	**6.894**	**Crest Factor:**	**1.729**
Power (Watts):	**1585**	**Power Factor:**	**0.998**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.119	1.080	11.0	0.125	1.620	7.74	Pass
3	0.213	2.300	9.3	0.221	3.450	6.39	Pass
4	0.019	0.430	4.5	0.022	0.645	3.34	Pass
5	0.056	1.140	4.9	0.059	1.710	3.45	Pass
6	0.059	0.300	19.7	0.063	0.450	13.96	Pass
7	0.071	0.770	9.3	0.077	1.155	6.63	Pass
8	0.034	0.230	14.8	0.040	0.345	11.51	Pass
9	0.124	0.400	31.1	0.130	0.600	21.74	Pass
10	0.024	0.184	13.1	0.028	0.276	10.12	Pass
11	0.071	0.330	21.6	0.076	0.495	15.37	Pass
12	0.031	0.153	20.3	0.034	0.230	14.94	Pass
13	0.022	0.210	10.5	0.026	0.315	8.23	Pass
14	0.019	0.131	14.7	0.022	0.197	11.22	Pass
15	0.015	0.150	10.0	0.017	0.225	7.59	Pass
16	0.016	0.115	14.2	0.019	0.173	11.24	Pass
17	0.014	0.132	10.8	0.017	0.199	8.55	Pass
18	0.012	0.102	12.0	0.014	0.153	9.05	Pass
19	0.010	0.118	8.8	0.012	0.178	6.68	Pass
20	0.022	0.092	23.9	0.025	0.138	18.29	Pass
21	0.009	0.107	8.2	0.010	0.161	6.29	Pass
22	0.009	0.084	11.3	0.010	0.125	8.30	Pass
23	0.008	0.098	8.3	0.009	0.147	6.37	Pass
24	0.010	0.077	13.0	0.011	0.115	9.92	Pass
25	0.008	0.090	9.4	0.010	0.135	7.47	Pass
26	0.036	0.071	51.2	0.045	0.106	42.50	Pass
27	0.026	0.083	31.7	0.044	0.125	35.24	Pass
28	0.007	0.066	10.2	0.008	0.099	8.07	Pass
29	0.006	0.078	7.9	0.007	0.116	6.11	Pass
30	0.013	0.061	21.8	0.016	0.092	17.92	Pass
31	0.010	0.073	13.7	0.016	0.109	14.27	Pass
32	0.035	0.058	60.6	0.044	0.086	51.58	Pass
33	0.025	0.068	37.3	0.042	0.102	41.41	Pass
34	0.007	0.054	12.1	0.008	0.081	10.06	Pass
35	0.006	0.064	9.7	0.007	0.096	7.37	Pass
36	0.010	0.051	19.0	0.011	0.077	14.79	Pass
37	0.010	0.061	16.0	0.013	0.091	13.86	Pass
38	0.016	0.048	33.6	0.020	0.073	26.99	Pass
39	0.012	0.058	21.6	0.018	0.087	20.72	Pass
40	0.012	0.046	26.6	0.018	0.069	25.92	Pass

THIS TEST REPORT IS RESPONSIBLE FOR THE SAMPLE TESTED ONLY AND SHOULD NOT BE DUPLICATED IN PART WITHOUT PERMISSION OF THE TEST LAB

Model: GUHD42NM3FO（outdoor unit）

Cooling mode

Phase A

Test Result: Pass **Source qualification: Normal**

THC(A): 1.40 **I-THD(%): 19.10** **POHC(A): 0.055** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**230.26**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**14.945**	**I_RMS (Amps):**	**8.154**
I_Fund (Amps):	**8.020**	**Crest Factor:**	**2.056**
Power (Watts):	**1847**	**Power Factor:**	**0.986**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.260	1.080	24.1	0.284	1.620	17.52	Pass
3	1.144	2.300	49.8	1.156	3.450	33.51	Pass
4	0.032	0.430	7.5	0.040	0.645	6.16	Pass
5	0.661	1.140	58.0	0.669	1.710	39.11	Pass
6	0.022	0.300	7.2	0.026	0.450	5.72	Pass
7	0.271	0.770	35.2	0.275	1.155	23.78	Pass
8	0.036	0.230	15.5	0.041	0.345	11.88	Pass
9	0.183	0.400	45.7	0.199	0.600	33.24	Pass
10	0.023	0.184	12.7	0.028	0.276	10.19	Pass
11	0.096	0.330	29.2	0.103	0.495	20.73	Pass
12	0.016	0.153	10.6	0.019	0.230	8.31	Pass
13	0.052	0.210	24.8	0.054	0.315	17.26	Pass
14	0.012	0.131	9.4	0.014	0.197	7.33	Pass
15	0.037	0.150	24.9	0.040	0.225	17.94	Pass
16	0.009	0.115	8.1	0.011	0.173	6.53	Pass
17	0.037	0.132	28.2	0.039	0.199	19.62	Pass
18	0.012	0.102	11.8	0.014	0.153	8.95	Pass
19	0.032	0.118	27.3	0.036	0.178	20.20	Pass
20	0.017	0.092	18.9	0.019	0.138	14.10	Pass
21	0.025	0.107	23.2	0.027	0.161	16.66	Pass
22	0.010	0.084	12.2	0.012	0.125	9.65	Pass
23	0.024	0.098	24.4	0.026	0.147	17.49	Pass
24	0.016	0.077	20.4	0.017	0.115	14.81	Pass
25	0.021	0.090	23.7	0.023	0.135	16.71	Pass
26	0.027	0.071	37.9	0.028	0.106	26.70	Pass
27	0.020	0.083	23.7	0.022	0.125	17.77	Pass
28	0.007	0.066	9.9	0.008	0.099	7.81	Pass
29	0.015	0.078	19.2	0.017	0.116	14.33	Pass
30	0.044	0.061	72.4	0.046	0.092	49.49	Pass
31	0.012	0.073	16.5	0.013	0.109	12.09	Pass
32	0.019	0.058	33.5	0.020	0.086	23.78	Pass
33	0.014	0.068	21.3	0.016	0.102	15.85	Pass
34	0.006	0.054	11.7	0.008	0.081	9.32	Pass
35	0.011	0.064	17.5	0.013	0.096	13.33	Pass
36	0.042	0.051	83.1	0.044	0.077	56.56	Pass
37	0.010	0.061	17.0	0.012	0.091	13.40	Pass
38	0.011	0.048	23.0	0.014	0.073	19.22	Pass
39	0.013	0.058	22.8	0.018	0.087	20.13	Pass
40	0.013	0.046	29.3	0.020	0.069	28.99	Pass

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Model: GUHD42NM3FO（outdoor unit）

Cooling mode

Phase B

Test Result: Pass **Source qualification: Normal**

THC(A): 0.311 **I-THD(%): 5.147** **POHC(A): 0.030** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**229.85**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**12.305**	**I_RMS (Amps):**	**6.774**
I_Fund (Amps):	**6.748**	**Crest Factor:**	**1.921**
Power (Watts):	**1550**	**Power Factor:**	**0.999**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.252	1.080	23.4	0.259	1.620	16.01	Pass
3	0.117	2.300	5.1	0.129	3.450	3.73	Pass
4	0.014	0.430	3.2	0.018	0.645	2.85	Pass
5	0.062	1.140	5.4	0.068	1.710	3.99	Pass
6	0.057	0.300	19.1	0.063	0.450	13.90	Pass
7	0.059	0.770	7.7	0.065	1.155	5.67	Pass
8	0.023	0.230	10.2	0.028	0.345	8.21	Pass
9	0.049	0.400	12.2	0.056	0.600	9.39	Pass
10	0.022	0.184	11.7	0.025	0.276	8.96	Pass
11	0.027	0.330	8.2	0.033	0.495	6.74	Pass
12	0.030	0.153	19.7	0.036	0.230	15.81	Pass
13	0.014	0.210	6.7	0.017	0.315	5.39	Pass
14	0.017	0.131	13.0	0.021	0.197	10.70	Pass
15	0.013	0.150	8.5	0.016	0.225	6.99	Pass
16	0.011	0.115	9.5	0.013	0.173	7.67	Pass
17	0.010	0.132	7.3	0.012	0.199	5.85	Pass
18	0.013	0.102	12.8	0.015	0.153	9.71	Pass
19	0.010	0.118	8.4	0.014	0.178	7.67	Pass
20	0.018	0.092	19.3	0.020	0.138	14.32	Pass
21	0.007	0.107	6.7	0.009	0.161	5.75	Pass
22	0.008	0.084	9.9	0.009	0.125	7.47	Pass
23	0.006	0.098	6.2	0.008	0.147	5.21	Pass
24	0.009	0.077	11.2	0.009	0.115	8.13	Pass
25	0.005	0.090	6.1	0.007	0.135	5.07	Pass
26	0.010	0.071	13.8	0.011	0.106	9.94	Pass
27	0.006	0.083	7.6	0.007	0.125	5.98	Pass
28	0.005	0.066	6.9	0.006	0.099	5.71	Pass
29	0.005	0.078	6.6	0.007	0.116	5.69	Pass
30	0.021	0.061	33.9	0.022	0.092	24.32	Pass
31	0.005	0.073	6.5	0.006	0.109	5.28	Pass
32	0.012	0.058	21.1	0.013	0.086	15.09	Pass
33	0.004	0.068	6.6	0.005	0.102	5.14	Pass
34	0.005	0.054	9.2	0.006	0.081	7.73	Pass
35	0.005	0.064	7.8	0.006	0.096	6.21	Pass
36	0.023	0.051	45.1	0.024	0.077	31.13	Pass
37	0.007	0.061	11.4	0.009	0.091	10.37	Pass
38	0.011	0.048	22.8	0.014	0.073	19.62	Pass
39	0.008	0.058	13.9	0.014	0.087	16.62	Pass
40	0.013	0.046	28.2	0.021	0.069	30.50	Pass

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Model: GUHD42NM3FO（outdoor unit）

Cooling mode

Phase C

Test Result: Pass **Source qualification: Normal**

THC(A): 0.386 **I-THD(%): 6.448** **POHC(A): 0.025** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**230.13**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**11.002**	**I_RMS (Amps):**	**6.737**
I_Fund (Amps):	**6.703**	**Crest Factor:**	**1.870**
Power (Watts):	**1541**	**Power Factor:**	**0.998**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.257	1.080	23.8	0.264	1.620	16.29	Pass
3	0.198	2.300	8.6	0.211	3.450	6.11	Pass
4	0.022	0.430	5.2	0.025	0.645	3.92	Pass
5	0.052	1.140	4.5	0.064	1.710	3.76	Pass
6	0.074	0.300	24.6	0.078	0.450	17.39	Pass
7	0.059	0.770	7.6	0.071	1.155	6.14	Pass
8	0.049	0.230	21.4	0.056	0.345	16.20	Pass
9	0.127	0.400	31.8	0.135	0.600	22.58	Pass
10	0.023	0.184	12.3	0.026	0.276	9.38	Pass
11	0.055	0.330	16.5	0.067	0.495	13.55	Pass
12	0.040	0.153	26.3	0.049	0.230	21.19	Pass
13	0.021	0.210	9.8	0.025	0.315	7.98	Pass
14	0.022	0.131	16.5	0.027	0.197	13.45	Pass
15	0.017	0.150	11.4	0.019	0.225	8.51	Pass
16	0.015	0.115	13.3	0.019	0.173	11.02	Pass
17	0.015	0.132	11.7	0.018	0.199	9.24	Pass
18	0.014	0.102	13.7	0.017	0.153	10.85	Pass
19	0.014	0.118	12.0	0.024	0.178	13.70	Pass
20	0.017	0.092	18.8	0.023	0.138	16.43	Pass
21	0.010	0.107	9.5	0.013	0.161	7.83	Pass
22	0.010	0.084	12.5	0.012	0.125	9.89	Pass
23	0.008	0.098	8.4	0.010	0.147	6.51	Pass
24	0.011	0.077	14.5	0.013	0.115	11.30	Pass
25	0.009	0.090	9.8	0.011	0.135	7.97	Pass
26	0.046	0.071	65.0	0.047	0.106	44.56	Pass
27	0.008	0.083	9.5	0.010	0.125	7.80	Pass
28	0.007	0.066	11.1	0.008	0.099	8.26	Pass
29	0.007	0.078	8.4	0.008	0.116	6.78	Pass
30	0.017	0.061	27.6	0.018	0.092	20.07	Pass
31	0.007	0.073	9.8	0.010	0.109	8.79	Pass
32	0.045	0.058	77.5	0.046	0.086	53.24	Pass
33	0.007	0.068	10.0	0.009	0.102	8.37	Pass
34	0.006	0.054	11.5	0.007	0.081	9.15	Pass
35	0.006	0.064	9.2	0.007	0.096	7.29	Pass
36	0.011	0.051	21.8	0.012	0.077	15.74	Pass
37	0.008	0.061	12.5	0.009	0.091	10.10	Pass
38	0.020	0.048	41.3	0.022	0.073	29.53	Pass
39	0.009	0.058	15.5	0.013	0.087	14.94	Pass
40	0.012	0.046	25.3	0.018	0.069	25.37	Pass

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Model: GUHD42NM3FO（outdoor unit）

Heating mode

Phase A

Test Result: Pass **Source qualification: Normal**

THC(A): 1.42 **I-THD(%): 17.51** **POHC(A): 0.059** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	**230.28**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**15.803**	**I_RMS (Amps):**	**8.637**
I_Fund (Amps):	**8.477**	**Crest Factor:**	**1.855**
Power (Watts):	**1952**	**Power Factor:**	**0.987**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.252	1.080	23.3	0.262	1.620	16.15	Pass
3	1.167	2.300	50.7	1.181	3.450	34.22	Pass
4	0.033	0.430	7.6	0.037	0.645	5.73	Pass
5	0.671	1.140	58.8	0.677	1.710	39.61	Pass
6	0.021	0.300	7.0	0.025	0.450	5.61	Pass
7	0.271	0.770	35.3	0.278	1.155	24.08	Pass
8	0.035	0.230	15.2	0.037	0.345	10.83	Pass
9	0.178	0.400	44.5	0.183	0.600	30.57	Pass
10	0.025	0.184	13.5	0.029	0.276	10.43	Pass
11	0.100	0.330	30.3	0.105	0.495	21.21	Pass
12	0.017	0.153	10.8	0.020	0.230	8.76	Pass
13	0.048	0.210	22.9	0.051	0.315	16.27	Pass
14	0.014	0.131	10.9	0.017	0.197	8.58	Pass
15	0.039	0.150	26.0	0.041	0.225	18.32	Pass
16	0.010	0.115	8.7	0.012	0.173	6.94	Pass
17	0.039	0.132	29.4	0.040	0.199	20.23	Pass
18	0.012	0.102	11.8	0.013	0.153	8.60	Pass
19	0.030	0.118	25.5	0.032	0.178	18.08	Pass
20	0.019	0.092	20.3	0.020	0.138	14.83	Pass
21	0.026	0.107	24.2	0.027	0.161	16.78	Pass
22	0.010	0.084	11.8	0.011	0.125	8.93	Pass
23	0.025	0.098	25.6	0.026	0.147	17.70	Pass
24	0.015	0.077	19.2	0.016	0.115	13.71	Pass
25	0.022	0.090	24.4	0.024	0.135	17.48	Pass
26	0.025	0.071	35.6	0.027	0.106	25.14	Pass
27	0.021	0.083	24.9	0.024	0.125	19.53	Pass
28	0.006	0.066	9.1	0.007	0.099	6.76	Pass
29	0.015	0.078	18.9	0.016	0.116	13.69	Pass
30	0.042	0.061	69.2	0.044	0.092	48.16	Pass
31	0.016	0.073	21.8	0.027	0.109	24.83	Pass
32	0.018	0.058	30.9	0.019	0.086	21.93	Pass
33	0.015	0.068	22.3	0.018	0.102	17.51	Pass
34	0.006	0.054	11.9	0.008	0.081	9.40	Pass
35	0.011	0.064	17.3	0.012	0.096	12.47	Pass
36	0.040	0.051	78.7	0.042	0.077	54.70	Pass
37	0.015	0.061	25.0	0.026	0.091	28.68	Pass
38	0.011	0.048	22.3	0.014	0.073	18.56	Pass
39	0.014	0.058	23.8	0.015	0.087	16.79	Pass
40	0.013	0.046	29.0	0.019	0.069	27.92	Pass

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Model: GUHD42NM3FO（outdoor unit）

Heating mode

Phase B

Test Result: Pass **Source qualification: Normal**

THC(A): 0.314 **I-THD(%): 4.618** **POHC(A): 0.039** **POHC Limit(A): 0.252**

Highest parameter values during test:

V_RMS (Volts):	**229.86**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**11.634**	**I_RMS (Amps):**	**7.198**
I_Fund (Amps):	**7.164**	**Crest Factor:**	**1.782**
Power (Watts):	**1646**	**Power Factor:**	**0.999**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.245	1.080	22.7	0.253	1.620	15.63	Pass
3	0.134	2.300	5.8	0.146	3.450	4.22	Pass
4	0.012	0.430	2.9	0.015	0.645	2.27	Pass
5	0.060	1.140	5.2	0.063	1.710	3.69	Pass
6	0.056	0.300	18.6	0.058	0.450	12.88	Pass
7	0.063	0.770	8.2	0.068	1.155	5.92	Pass
8	0.025	0.230	10.7	0.027	0.345	7.90	Pass
9	0.056	0.400	14.0	0.060	0.600	9.92	Pass
10	0.023	0.184	12.6	0.026	0.276	9.45	Pass
11	0.034	0.330	10.3	0.041	0.495	8.23	Pass
12	0.030	0.153	19.6	0.032	0.230	14.05	Pass
13	0.015	0.210	7.3	0.020	0.315	6.20	Pass
14	0.019	0.131	14.2	0.022	0.197	10.94	Pass
15	0.011	0.150	7.4	0.013	0.225	5.81	Pass
16	0.011	0.115	9.7	0.013	0.173	7.42	Pass
17	0.010	0.132	7.3	0.012	0.199	5.83	Pass
18	0.014	0.102	13.3	0.015	0.153	9.85	Pass
19	0.007	0.118	6.3	0.009	0.178	5.28	Pass
20	0.019	0.092	20.6	0.020	0.138	14.82	Pass
21	0.006	0.107	5.9	0.007	0.161	4.53	Pass
22	0.008	0.084	9.7	0.009	0.125	7.22	Pass
23	0.005	0.098	5.6	0.006	0.147	4.18	Pass
24	0.008	0.077	10.5	0.009	0.115	7.75	Pass
25	0.006	0.090	6.3	0.007	0.135	5.15	Pass
26	0.009	0.071	13.1	0.010	0.106	9.64	Pass
27	0.006	0.083	7.7	0.008	0.125	6.29	Pass
28	0.004	0.066	6.8	0.005	0.099	5.37	Pass
29	0.005	0.078	6.1	0.005	0.116	4.64	Pass
30	0.020	0.061	33.0	0.021	0.092	23.32	Pass
31	0.007	0.073	9.2	0.012	0.109	11.39	Pass
32	0.012	0.058	20.5	0.013	0.086	14.72	Pass
33	0.005	0.068	8.0	0.008	0.102	7.67	Pass
34	0.005	0.054	9.7	0.006	0.081	7.98	Pass
35	0.005	0.064	7.3	0.006	0.096	5.84	Pass
36	0.022	0.051	43.7	0.024	0.077	30.54	Pass
37	0.009	0.061	15.0	0.015	0.091	16.08	Pass
38	0.011	0.048	22.3	0.014	0.073	18.97	Pass
39	0.008	0.058	13.6	0.009	0.087	10.77	Pass
40	0.014	0.046	30.4	0.021	0.069	30.46	Pass

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Model: GUHD42NM3FO（outdoor unit）

Heating mode

Phase C

Test Result: Pass **Source qualification: Normal**

THC(A): 0.396 **I-THD(%): 5.868** **POHC(A): 0.029** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts): 230.14 **Frequency(Hz): 50.00**

I_Peak (Amps): 12.037 **I_RMS (Amps): 7.156**

I_Fund (Amps): 7.117 **Crest Factor: 1.700**

Power (Watts): 1637 **Power Factor: 0.998**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.250	1.080	23.1	0.256	1.620	15.82	Pass
3	0.214	2.300	9.3	0.219	3.450	6.36	Pass
4	0.024	0.430	5.6	0.028	0.645	4.29	Pass
5	0.053	1.140	4.6	0.058	1.710	3.41	Pass
6	0.074	0.300	24.6	0.079	0.450	17.46	Pass
7	0.065	0.770	8.5	0.073	1.155	6.31	Pass
8	0.050	0.230	21.7	0.054	0.345	15.58	Pass
9	0.133	0.400	33.3	0.138	0.600	23.01	Pass
10	0.023	0.184	12.7	0.027	0.276	9.66	Pass
11	0.068	0.330	20.5	0.074	0.495	15.03	Pass
12	0.040	0.153	25.9	0.043	0.230	18.82	Pass
13	0.022	0.210	10.3	0.024	0.315	7.70	Pass
14	0.022	0.131	16.6	0.025	0.197	12.72	Pass
15	0.017	0.150	11.5	0.020	0.225	8.69	Pass
16	0.015	0.115	13.1	0.017	0.173	9.91	Pass
17	0.015	0.132	11.1	0.017	0.199	8.60	Pass
18	0.016	0.102	15.3	0.018	0.153	11.61	Pass
19	0.011	0.118	9.0	0.013	0.178	7.17	Pass
20	0.023	0.092	24.7	0.026	0.138	18.83	Pass
21	0.010	0.107	9.0	0.011	0.161	7.00	Pass
22	0.011	0.084	13.1	0.012	0.125	9.89	Pass
23	0.008	0.098	8.3	0.009	0.147	6.35	Pass
24	0.010	0.077	13.3	0.011	0.115	9.87	Pass
25	0.008	0.090	8.9	0.010	0.135	7.55	Pass
26	0.045	0.071	62.7	0.047	0.106	44.11	Pass
27	0.013	0.083	15.5	0.026	0.125	20.72	Pass
28	0.007	0.066	10.2	0.008	0.099	7.75	Pass
29	0.006	0.078	7.5	0.007	0.116	5.78	Pass
30	0.016	0.061	26.1	0.017	0.092	18.45	Pass
31	0.007	0.073	9.5	0.011	0.109	9.88	Pass
32	0.043	0.058	74.3	0.045	0.086	52.39	Pass
33	0.013	0.068	18.7	0.026	0.102	25.30	Pass
34	0.007	0.054	12.3	0.008	0.081	9.76	Pass
35	0.006	0.064	8.8	0.006	0.096	6.72	Pass
36	0.011	0.051	20.6	0.011	0.077	14.76	Pass
37	0.009	0.061	14.4	0.011	0.091	11.81	Pass
38	0.019	0.048	38.8	0.021	0.073	28.66	Pass
39	0.009	0.058	15.7	0.013	0.087	14.86	Pass
40	0.012	0.046	26.9	0.018	0.069	26.27	Pass

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Model: GKH42K3FI(indoor unit)

fan mode

Test Result: Pass **Source qualification: Normal**
THC(A): 0.55 **I-THD(%): 162.21** **POHC(A): 0.049** **POHC Limit(A): 0.261**
Highest parameter values during test:

V_RMS (Volts):	230.16	Frequency(Hz):	50.00
I_Peak (Amps):	2.854	I_RMS (Amps):	0.678
I_Fund (Amps):	0.976	Crest Factor:	4.382
Power (Watts):	79.7	Power Factor:	0.532

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.009	1.080	0.9	0.012	1.620	0.71	Pass
3	0.287	2.300	12.5	0.293	3.450	8.50	Pass
4	0.011	0.430	2.5	0.012	0.645	1.85	Pass
5	0.268	1.140	23.5	0.275	1.710	16.05	Pass
6	0.009	0.300	3.2	0.011	0.450	2.34	Pass
7	0.238	0.770	30.9	0.243	1.155	21.07	Pass
8	0.008	0.230	3.4	0.009	0.345	2.53	Pass
9	0.202	0.400	50.4	0.206	0.600	34.36	Pass
10	0.006	0.184	3.3	0.007	0.276	2.53	Pass
11	0.162	0.330	49.1	0.165	0.495	33.40	Pass
12	0.005	0.153	3.0	0.005	0.230	2.28	Pass
13	0.122	0.210	57.9	0.124	0.315	39.45	Pass
14	0.004	0.131	0.0	0.004	0.197	2.07	Pass
15	0.083	0.150	55.6	0.086	0.225	38.10	Pass
16	0.003	0.115	0.0	0.004	0.173	2.03	Pass
17	0.050	0.132	37.8	0.052	0.199	26.32	Pass
18	0.003	0.102	0.0	0.003	0.153	2.25	Pass
19	0.023	0.118	19.8	0.026	0.178	14.37	Pass
20	0.003	0.092	0.0	0.003	0.138	2.39	Pass
21	0.011	0.107	10.1	0.011	0.161	7.12	Pass
22	0.003	0.084	0.0	0.003	0.125	2.43	Pass
23	0.018	0.098	17.9	0.020	0.147	13.53	Pass
24	0.002	0.077	0.0	0.003	0.115	2.33	Pass
25	0.023	0.090	26.0	0.025	0.135	18.22	Pass
26	0.002	0.071	0.0	0.002	0.106	2.09	Pass
27	0.024	0.083	29.4	0.025	0.125	20.03	Pass
28	0.002	0.066	0.0	0.002	0.099	1.80	Pass
29	0.021	0.078	27.4	0.022	0.116	18.90	Pass
30	0.001	0.061	0.0	0.002	0.092	1.76	Pass
31	0.016	0.073	21.7	0.017	0.109	15.16	Pass
32	0.002	0.058	0.0	0.002	0.086	1.98	Pass
33	0.009	0.068	13.4	0.010	0.102	9.91	Pass
34	0.002	0.054	0.0	0.002	0.081	2.24	Pass
35	0.004	0.064	0.0	0.004	0.096	4.33	Pass
36	0.002	0.051	0.0	0.002	0.077	2.36	Pass
37	0.004	0.061	8.7	0.006	0.091	6.71	Pass
38	0.001	0.048	0.0	0.002	0.073	2.29	Pass
39	0.008	0.058	13.1	0.009	0.087	9.95	Pass
40	0.001	0.046	0.0	0.001	0.069	1.86	Pass

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Model: GTH42K3FI(indoor unit)

fan mode

Test Result: Pass **Source qualification: Normal**
THC(A): 1.00 **I-THD(%): 181.85** **POHC(A): 0.073** **POHC Limit(A): 0.256**
Highest parameter values during test:

V_RMS (Volts):	230.19	Frequency(Hz):	50.00
I_Peak (Amps):	5.013	I_RMS (Amps):	1.199
I_Fund (Amps):	0.564	Crest Factor:	4.309
Power (Watts):	127.7	Power Factor:	0.494

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.016	1.080	1.5	0.020	1.620	1.26	Pass
3	0.523	2.300	22.7	0.536	3.450	15.54	Pass
4	0.017	0.430	3.9	0.020	0.645	3.16	Pass
5	0.484	1.140	42.4	0.496	1.710	29.00	Pass
6	0.015	0.300	5.0	0.018	0.450	4.02	Pass
7	0.430	0.770	55.8	0.442	1.155	38.24	Pass
8	0.012	0.230	5.4	0.016	0.345	4.53	Pass
9	0.365	0.400	91.4	0.376	0.600	62.67	Pass
10	0.010	0.184	5.3	0.013	0.276	4.61	Pass
11	0.295	0.330	89.3	0.304	0.495	61.46	Pass
12	0.007	0.153	4.6	0.010	0.230	4.50	Pass
13	0.181	0.210	86.2	0.188	0.315	59.68	Pass
14	0.005	0.131	3.8	0.008	0.197	4.31	Pass
15	0.131	0.150	87.3	0.138	0.225	61.33	Pass
16	0.004	0.115	3.2	0.007	0.173	3.87	Pass
17	0.094	0.132	71.4	0.103	0.199	51.64	Pass
18	0.003	0.102	3.3	0.005	0.153	3.50	Pass
19	0.044	0.118	37.5	0.052	0.178	29.42	Pass
20	0.003	0.092	0.0	0.004	0.138	3.02	Pass
21	0.011	0.107	10.2	0.018	0.161	11.29	Pass
22	0.003	0.084	0.0	0.004	0.125	3.04	Pass
23	0.021	0.098	21.3	0.036	0.147	24.22	Pass
24	0.003	0.077	0.0	0.003	0.115	2.87	Pass
25	0.034	0.090	38.0	0.042	0.135	30.79	Pass
26	0.002	0.071	0.0	0.003	0.106	2.68	Pass
27	0.038	0.083	45.5	0.039	0.125	31.48	Pass
28	0.002	0.066	0.0	0.003	0.099	2.65	Pass
29	0.034	0.078	43.9	0.035	0.116	30.24	Pass
30	0.001	0.061	0.0	0.002	0.092	2.54	Pass
31	0.026	0.073	35.2	0.028	0.109	25.52	Pass
32	0.002	0.058	0.0	0.002	0.086	2.48	Pass
33	0.015	0.068	21.7	0.018	0.102	17.61	Pass
34	0.002	0.054	0.0	0.002	0.081	2.56	Pass
35	0.005	0.064	8.1	0.008	0.096	8.08	Pass
36	0.002	0.051	0.0	0.002	0.077	2.81	Pass
37	0.006	0.061	9.9	0.013	0.091	14.48	Pass
38	0.002	0.048	0.0	0.002	0.073	2.80	Pass
39	0.012	0.058	20.0	0.016	0.087	18.04	Pass
40	0.001	0.046	0.0	0.002	0.069	2.29	Pass

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Model: GFH42K3FI(indoor unit)

fan mode

Test Result: Pass **Source qualification: Normal**

THC(A): 1.81 **I-THD(%): 185.78** **POHC(A): 0.093** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	230.15	Frequency(Hz):	50.00
I_Peak (Amps):	9.183	I_RMS (Amps):	2.103
I_Fund (Amps):	0.990	Crest Factor:	4.461
Power (Watts):	225.3	Power Factor:	0.473

Harm#	Harms(avg)	90%Limit	%of Limit	Harms(max)	200%Limit	%of Limit	Status
2	0.029	0.972	3.0	0.036	2.160	1.66	Pass
3	0.934	2.070	45.1	0.948	4.600	20.60	Pass
4	0.034	0.387	8.8	0.039	0.860	4.52	Pass
5	0.867	1.026	84.5	0.878	2.280	38.51	Pass
6	0.032	0.270	11.7	0.036	0.600	6.01	Pass
7	0.589	0.693	84.9	0.595	1.540	38.64	Pass
8	0.028	0.207	13.7	0.033	0.460	7.09	Pass
9	0.309	0.360	85.8	0.312	0.800	39.00	Pass
10	0.025	0.166	14.8	0.029	0.368	7.84	Pass
11	0.258	0.297	86.8	0.261	0.660	39.55	Pass
12	0.021	0.138	15.0	0.025	0.306	8.08	Pass
13	0.166	0.189	87.8	0.168	0.420	40.00	Pass
14	0.017	0.118	14.5	0.021	0.262	7.89	Pass
15	0.120	0.135	88.8	0.122	0.300	40.7	Pass
16	0.014	0.104	13.4	0.017	0.230	7.31	Pass
17	0.107	0.119	89.9	0.110	0.264	41.67	Pass
18	0.011	0.092	12.4	0.014	0.204	6.68	Pass
19	0.097	0.107	90.7	0.101	0.237	42.62	Pass
20	0.009	0.083	11.0	0.011	0.184	5.93	Pass
21	0.046	0.096	48.2	0.050	0.214	23.21	Pass
22	0.007	0.075	9.9	0.009	0.167	5.30	Pass
23	0.022	0.088	24.6	0.026	0.196	13.41	Pass
24	0.006	0.069	8.6	0.007	0.153	4.61	Pass
25	0.035	0.081	43.6	0.040	0.180	22.28	Pass
26	0.005	0.071	7.2	0.006	0.142	3.89	Pass
27	0.043	0.075	56.7	0.045	0.167	26.89	Pass
28	0.003	0.066	0.0	0.004	0.099	4.08	Pass
29	0.039	0.070	55.8	0.039	0.155	25.31	Pass
30	0.002	0.061	0.0	0.003	0.092	3.09	Pass
31	0.029	0.065	43.7	0.029	0.145	20.26	Pass
32	0.002	0.058	0.0	0.002	0.086	2.26	Pass
33	0.015	0.061	25.1	0.017	0.136	12.16	Pass
34	0.002	0.054	0.0	0.002	0.081	2.09	Pass
35	0.006	0.058	10.0	0.006	0.129	4.85	Pass
36	0.002	0.051	0.0	0.002	0.077	2.33	Pass
37	0.011	0.055	19.8	0.013	0.122	10.48	Pass
38	0.002	0.048	0.0	0.002	0.073	2.69	Pass
39	0.016	0.052	31.3	0.017	0.115	15.14	Pass
40	0.001	0.046	0.0	0.002	0.069	2.61	Pass

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4.5 Voltage Fluctuation on AC Mains

Date of testing	:	2013.08.15
Temperature	:	24°C~26°C
Humidity	:	66%RH~67%RH
Test procedure	:	EN61000-3-3: 2008
Frequency Range	:	0-2kHz
Test observation period	:	120min
Operational mode	:	Dry
Test result	:	Pass

1.Test Setup:

2. Test result.

Model		d_c [%]	d_{max} [%]	d (t)[ms]	Pst	Plt
GUHD36NM3FO（outdoor unit）	Phase L3	0.92	0.95	0.0	0.181	0.151
	Phase L2	0.91	0.94	0.0	0.180	0.150
	Phase L1	0.90	0.93	0.0	0.179	0.149
GUHD42NM3FO（outdoor unit）	Phase L3	0.96	0.99	0.0	0.185	0.155
	Phase L2	0.95	0.98	0.0	0.184	0.154
	Phase L1	0.94	0.97	0.0	0.183	0.153
GFH42K3FI(indoor unit)		0.14	1.51	0.0	0.208	0.203
GTH42K3FI(indoor unit)		0.13	1.52	0.0	0.221	0.205
GKH42K3FI(indoor unit)		0.16	1.53	0.0	0.214	0.207
Limit		**3.30**	**6.00**	**500.0**	**1.000**	**0.650**

Remark:

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5. Immunity Tests

5.1 Electrostatic Discharge (ESD)

Date of testing	:	2013.08.15
Temperature	:	24°C~26°C
Humidity	:	56%RH
Test procedure	:	EN55014-2: 1997+A1: 2001+A2:2008
Basic Standard	:	IEC 61000-4-2:2008
Performance Criterion	:	B
Operational mode	:	Cool, High fan
Test result	:	Pass

1. Test setup

Note: HCP means Horizontal Coupling Plane,
VCP means Vertical Coupling Plane
GRP means Ground Reference Plane

The EUT was put on a 0.8m high wooden tabel/0.1m high for floor standing equipment standing on the ground reference plane(GRP) 3m by 2m in size, made by iron 1.0 mm thick.
A horizontal coupling plane(HCP) 1.6m by 0.8m in size was placed on the table, and the EUT with its cables were isolated from the HCP by an insulating support thick than 0.5mm. The VCP 0.5m by 0.5m in size & HCP were constructed from the same material type & thinness as that of the GRP, and connected to the GRP via a 470kΩ resistor at each end.
The distance between EUT and any of the other metallic surface excepted the GRP, HCP & VCP was greater than 1m.
The EUT was arranged and connected according to its functional requirements.

Direct static electricity discharges was applied only to those points and surface which are accessible to personnel during normal usage.

2. Test result

Location of Discharge	Type of Discharge	Level(kV)	Polarity	Number of Discharge	Result
Remote Receiver	Air	8.0	±	10	A
Display window	Air	8.0	±	10	A
Manual key	Air	8.0	±	10	A
Touchable screw	Contact	4.0	±	10	A
Remote Controller	Air	8.0	±	10	A
	HCP	4.0	±	10	A
	VCP	4.0	±	10	A

Remark:
The Air discharge could not occur and the EUT worked normally during the test, no degradation of function occurred.

Air -Air Discharge
Contact -Contact Discharge
HCP—Horizontal Coupling Plate,
VCP—Vertical Coupling Plate

5.2 Electrical Fast Transient/Burst (EFT)

Date of testing	:	2013.08.15
Temperature	:	24°C
Humidity	:	67%RH
Test procedure	:	EN55014-2: 1997+A1: 2001+A2:2008
Basic Standard	:	IEC 61000-4-4:2004
Repetition Frequency	:	5kHz
Performance Criterion	:	B
Operational mode	:	Cool, High fan
Test result	:	Pass

1.Test Setup

The EUT is placed on an insulating plane, it is 0.1m high for table model and 0.1m high for floor type above the grounded reference plane. EUT is at least 0.5m away from the wall of the EMC laboratory and other metal conductors grounded except the grounded reference plane., and its four borders are at least 0.1m away from the borders of the grounded reference plane. The cable between EUT and CDN is not more than 0.5m.

For signal lines and control lines, the burst signal is coupled by a capacitive coupling clamp.

2. Test result:

Location	Voltage (kV)	Duration (s)	Coupled by	Result
L +N+PE	±1	120	CDN	A
Interconnection line	±0.5	120	Capacitive Coupling Clamp	A
Remark: The EUT worked normally during the test, no degradation of function occurred.				

5.3 Surge

Date of testing	:	2013.08.15
Temperature	:	24°C
Humidity	:	67%RH
Test procedure	:	EN55014-2: 1997+A1: 2001+A2:2008
Basic Standard	:	IEC 61000-4-5:2005
Performance Criterion	:	B
Operational mode	:	Cool, High fan
Test result	:	Pass

1.Test Setup

The cable between EUT and CDN is not more than 1m..
No other special specifications.

2.Test result

Location	Polarity	Phase Angle	Number of test	Pulse Voltage（kV）	Result
L—N	±	0°	5	1	A
	±	90°	5	1	A
	±	180°	5	1	A
	±	270°	5	1	A
L-PE	±	0°	5	2	A
	±	90°	5	2	A
	±	180°	5	2	A
	±	270°	5	2	A
N-PE	±	0°	5	2	A
	±	90°	5	2	A
	±	180°	5	2	A
	±	270°	5	2	A
Remark: The EUT worked normally during the test, no degradation of function occurred.					

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5.4 Immunity to conducted Disturbances, induced by RF fields

Date of testing	:	2013.08.15
Temperature	:	24°C
Humidity	:	67%RH
Test procedure	:	EN55014-2: 1997+A1: 2001+A2:2008
Basic Standard	:	IEC 61000-4-6:2008
Frequency range	:	150k~230MHz
Modulation	:	80%AM, 1kHz sine-wave
Dwell time/Step size	:	3000ms / 1%
Performance Criterion	:	A
Operational mode	:	Cool, High fan
Test result	:	Pass

1. Test Setup

Frequency Range	Coupling Port	Strength	Coupling Method	Result
0.15MHz~80MHz	AC Mains	3V	CDN	A
80MHz~230MHz	AC Mains	3V	CDN	A
0.15MHz~80MHz	Interconnection wire	1V	Coupling/Decoupling Network	A
80MHz~230MHz	Interconnection wire	1V	Coupling/Decoupling Network	A
Remark: The EUT worked normally during the test, no degradation of function occurred.				

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5.5 Voltage Dips and Short interruptions

Date of testing	:	2013.08.15
Temperature	:	24°C
Humidity	:	67%RH
Test procedure	:	EN55014-2: 1997+A1: 2001+A2:2008
Basic Standard	:	IEC 61000-4-11:2004
Performance Criterion	:	C
Operational mode	:	Cool, High fan
Test result	:	Pass

1.Test Setup

No other special specifications.

2. Test result.

Severity Level		Test Level	Duration	Intervals	Phase Angle	Number of Test	Result
Short Interruption 100%		0%U_T	0.5P	3min	0°	3	A
					180°	3	A
Voltage Dips	60%	40%U_T	10P	3min	0°	3	B
					180°	3	B
	30%	70%U_T	25P	3min	0°	3	B
					180°	3	B

Remark:

1, U_T: Nominal Voltage of EUT.

2, During the test of 40%U_T, 70%U_T the EUT stopped, but it could recover the primal status. No degradation of function occurred.

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