

EMC Measurement and Test Report

For

SHENZHEN WINTACT ELECTRONICS CO., LTD.

ROOM C, FLOOR 6 BLOCK B, DONGFANG JIANFU YIJING

INDUSTRIAL ZONE, GONGMING TOWN, GUANGMING DISTRICT,

SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

Test Standards:	EN 61000-6-1:2017 <u>EN 61000-6-3:2007/A1:2011/AC:2012</u>
Product Description:	<u>Gas Monitor</u>
Tested Model:	<u>WT8811</u>
Report No.:	<u>STR18118204E</u>
Tested Date:	<u>2018-11-19 to 2018-11-22</u>
Issued Date:	<u>2018-11-22</u>
Tested By:	<u>Gan Li / Engineer</u> <i>Gan Li</i>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: SHENZHEN WINTACT ELECTRONICS CO., LTD.
ROOM C, FLOOR 6BLOCK B, DONGFANG JIANFU
YIJING INDUSTRIAL ZONE, GONGMING TOWN,
Address of applicant: GUANGMING DISTRICT, SHENZHEN CITY,
GUANGDONG PROVINCE, CHINA

Manufacturer: SHENZHEN WINTACT ELECTRONICS CO., LTD.
ROOM C, FLOOR 6BLOCK B, DONGFANG JIANFU
YIJING INDUSTRIAL ZONE, GONGMING TOWN,
Address of manufacturer: GUANGMING DISTRICT, SHENZHEN CITY,
GUANGDONG PROVINCE, CHINA

General Description of EUT	
Product Name:	Gas Monitor
Trade Name:	WINTACT
Model No.:	WT8811
Adding Model(s):	WT8800、WT8801、WT8802、WT8803、WT8804、 WT8805、WT8806、WT8807、WT8808、WT8809、 WT8820、WT8821、WT8822、WT8823、WT8825、 WT8826、GM8800A、GM8800B
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model WT8811, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Rated Voltage:	Input:DC 5V;Output:DC 3.2V
Rated Current:	/
Rated Power:	/
Power Adaptor Model:	/
Highest Internal Frequency:	Below 108MHz

1.2 Test Standards

The tests were performed according to following standards:

EN 61000-6-1:2017 Electromagnetic compatibility (EMC) —Part 6-1: Generic standards —Immunity for residential, commercial and light-industrial environments.

EN 61000-6-3:2007/A1:2011/AC:2012 Electromagnetic compatibility (EMC) —Part 6-3: Generic standards — Emission standard for residential, commercial and light-industrial environments.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with the standards EN61000-6-3, EN61000-6-1 for residential, commercial and light-industrial environments, and all related testing and measurement techniques intentional standards.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

Test Mode	Description	Remark	Power Supply Mode
TM1	Charging	Connected to adapter	DC 5V(with a adapter input AC 230V/50Hz)
TM2	Discharging	battery powered	DC 3.2V

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Battery*3	/	/	/
adapter	Kezhen	KZ0501500V	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	1	Unshielded	Without Core

1.6 Performance Criteria for EMS

All the test data has been collected, reduced, and analyzed within this report in accordance with Immunity requires the following as specific performance criteria:

- A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.
- B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacture. No change in operating state or loss or data is permitted.
- C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.

1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2018-05-22	2019-05-21
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-333	2017-06-08	2020-06-07
Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
Clamp	Luthi	MDS21	3809	2018-05-26	2019-05-25
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2018-05-22	2019-05-21
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
AC LISN	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
8-WIRE LISN	Schwarz beck	8158	CAT3-8158-0059	2018-05-22	2019-05-21
8-WIRE LISN	Schwarz beck	8158	CAT5-8158-0117	2018-05-22	2019-05-21
DC LISN	Schwarz beck	NNBM8126D	279	2018-05-22	2019-05-21
DC LISN	Schwarz beck	NNBM8126D	280	2018-05-22	2019-05-21
PMF Generator	LIONCEL	PMF-801C-C	0171101	2018-05-22	2019-05-21
PMF Antenna	LIONCEL	PMF-801C-A	0180302	2018-05-22	2019-05-21
Instantaneous PMF Generator Module	LIONCEL	PMF-801C-T	0171001	2018-05-22	2019-05-21
Digital Power Analyzer	California Instrument	CTS	72831	2018-05-22	2019-05-21
Power Source	California Instrument	5001IX-CTS-400	25965	2018-05-22	2019-05-21
ESD Generator	LIONCEL	ESD-203B	0170901	2018-05-28	2019-05-27
Amplifier	Agilent	8447D	2944A10179	2018-05-22	2019-05-21
Transient 2000	EMC PARTNER	TRA2000	863	2018-05-22	2019-05-21
Couple Clamp	EMC PARTNER	CN-EFT1000	513	2018-05-26	2019-05-25
CS Immunity Tester	SCHAFFNER	NSG2070	1123	2018-05-22	2019-05-21
Attenuator	EMTEST	MA-5100/6BF2	1009	2018-05-22	2019-05-21
CDN	Luthi	L-801M2/M3	2665	2018-05-22	2019-05-21
Signal Generator	R&S	SMB100A	105942	2018-09-10	2019-09-09
Power Meter	R&S	NRP2	102031	2018-09-10	2019-09-09
RF Power Amplifier	BONN Elektronik	BLWA0830-160/100/40D	128740	2018-09-10	2019-09-09
RF Power Amplifier	NJNT	NTWPAS-2560025	2560025	2018-09-10	2019-09-09
Antenna	SCHWARZBECK	STLP9128D	043	2017-09-11	2020-09-10
Antenna	SCHWARZBECK	BBHA 9120 D	667	2017-09-11	2020-09-10

CS Generator	MARCONI	2024	112260/042	2018-08-13	2019-08-12
Attenuator	FRANKONIA	75-A-FFN-06	1001698	2018-08-13	2019-08-12
CDN	FRANKONIA	CDN M2+M3	A3027019	2018-08-13	2019-08-12
EM Injection Clamp	FCC	F-203I-23mm	91536	2018-08-13	2019-08-12
RF POWER AMPLIFIER	FRANKONIA	FLL-75	102A1109	2018-08-13	2019-08-12

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
EN61000-6-3	Conducted Emission	Compliant
	Radiated Emission	Compliant
EN61000-3-2	Harmonic Current Emission	N/A
EN61000-3-3	Voltage Fluctuation And Flicker	N/A
EN61000-6-1	Electrostatic Discharge Immunity in accordance with EN 61000-4-2	Compliant
	Radiated RF-Electromagnetic Field Immunity in accordance with EN 61000-4-3	Compliant
	Electrical Fast Transient/Burst Immunity in accordance with EN 61000-4-4	Compliant
	Surge Immunity in accordance with EN 61000-4-5	Compliant
	Conducted disturbances Immunity in accordance with EN 61000-4-6	Compliant
	Power-frequency magnetic field Immunity in accordance with EN 61000-4-8	Compliant
	Voltage Dips/Interruptions Immunity in accordance with EN 61000-4-11	N/A

N/A: not applicable

3. CONDUCTED EMISSIONS

3.1 Measurement Uncertainty

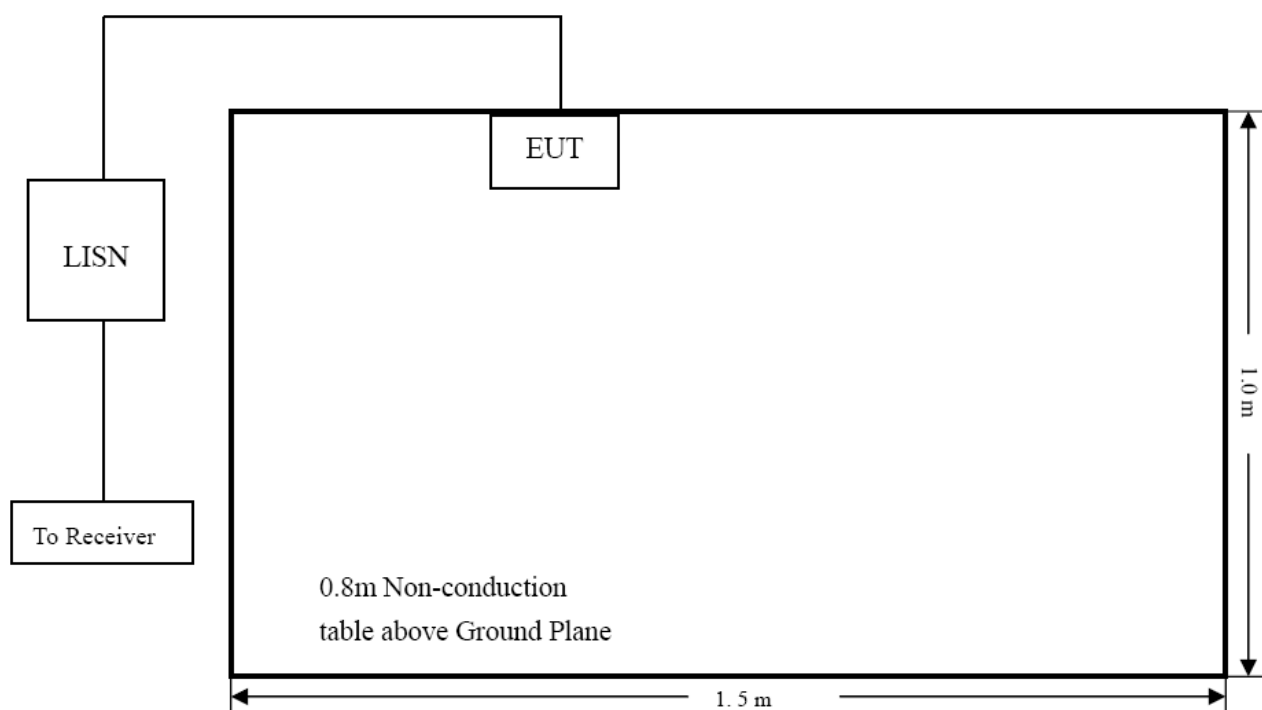
Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz ± 3.74 dB
		0.15-30MHz ± 3.34 dB

3.2 Test Procedure

Test is conducting under the description of EN61000-6-3, Radio disturbance characteristics - Limits and methods of measurement.

3.3 Basic Test Setup Block Diagram



3.4 Environmental Conditions

Temperature:	22 ° C
Relative Humidity:	55 %
ATM Pressure:	1015 mbar

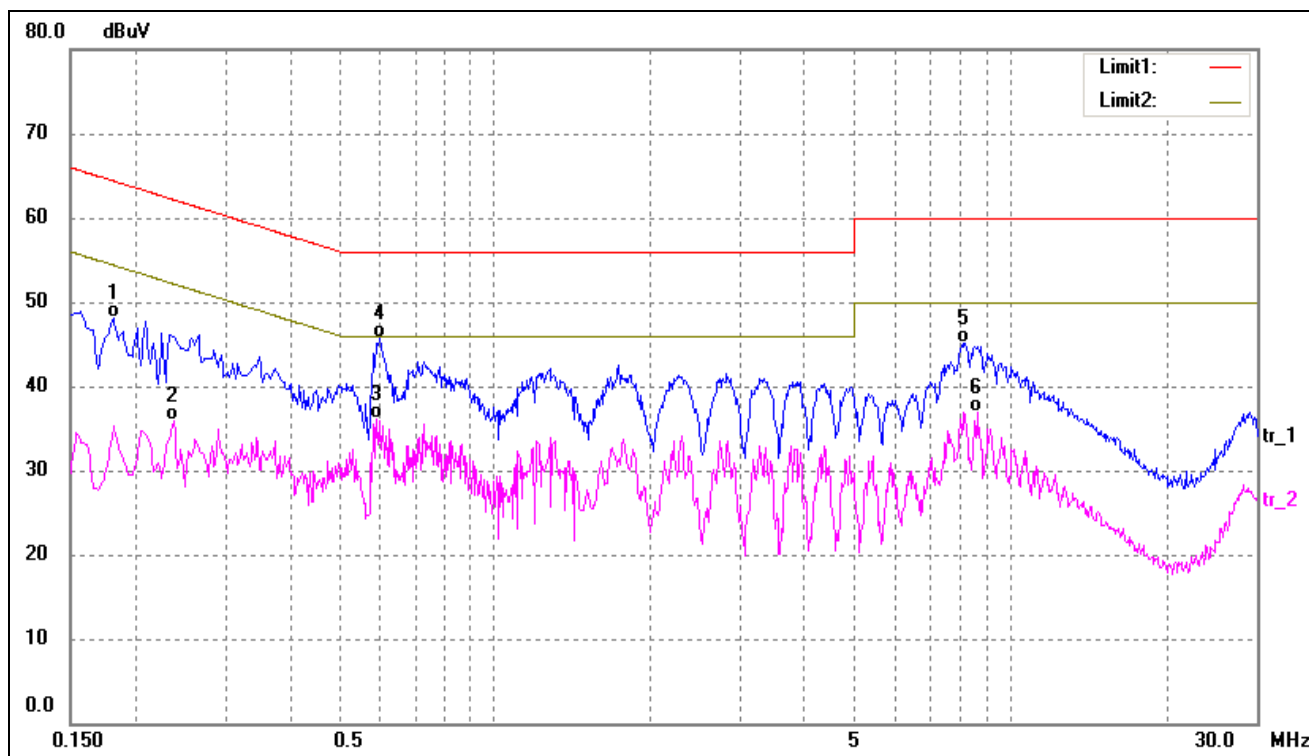
3.5 Summary of Test Results/Plots

According to the data in section 3.6, the EUT complied with the EN61000-6-3 standard, with the *worst* margin reading of:

-9.92 dB at 0.5900 MHz in the **Line** mode, **AVG** detector, **0.15-30MHz**

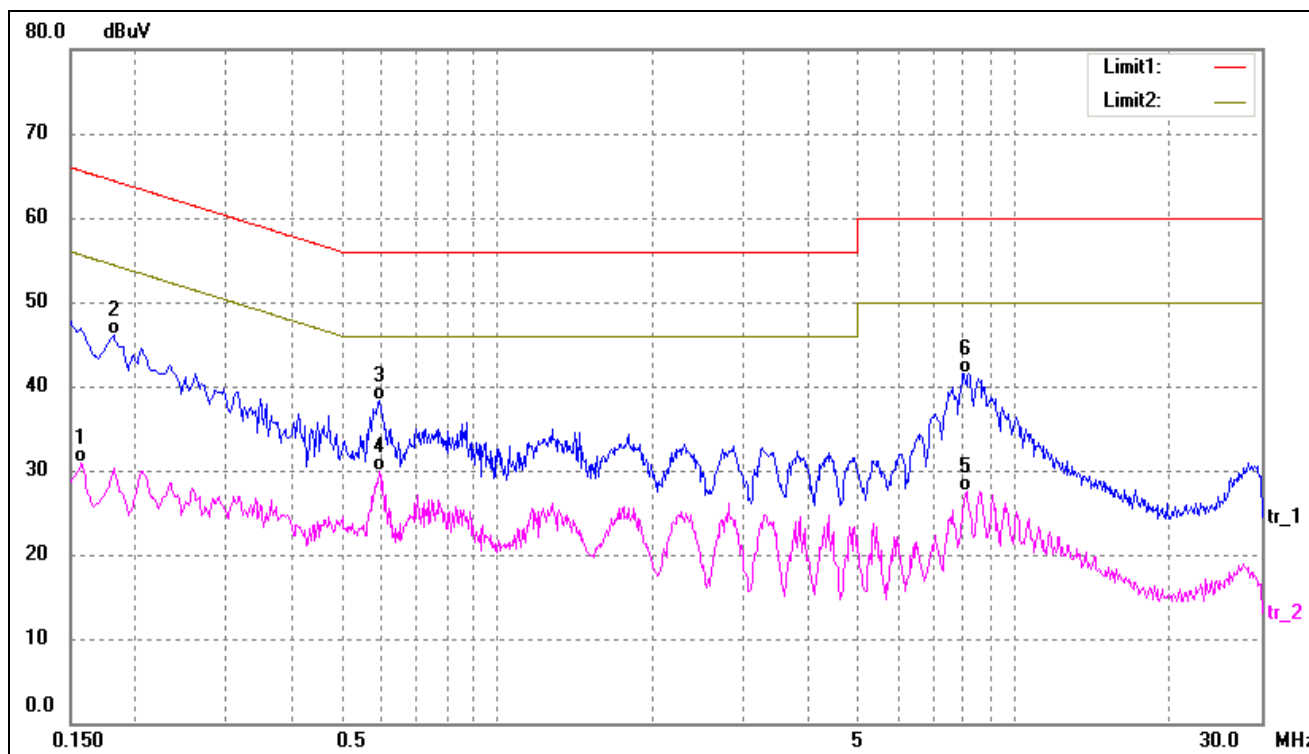
3.6 Conducted Emissions Test Data

Test mode:	TM1	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1820	38.02	10.11	48.13	64.39	-16.26	QP
2	0.2380	25.84	10.15	35.99	52.17	-16.18	AVG
3*	0.5900	25.75	10.33	36.08	46.00	-9.92	AVG
4	0.5980	35.43	10.34	45.77	56.00	-10.23	QP
5	8.0940	34.28	10.89	45.17	60.00	-14.83	QP
6	8.6140	26.02	10.90	36.92	50.00	-13.08	AVG

Test mode:	TM1	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	20.79	10.10	30.89	55.57	-24.68	AVG
2	0.1820	35.98	10.11	46.09	64.39	-18.30	QP
3	0.5940	27.89	10.33	38.22	56.00	-17.78	QP
4*	0.5940	19.63	10.33	29.96	46.00	-16.04	AVG
5	8.0980	16.63	10.89	27.52	50.00	-22.48	AVG
6	8.1540	30.66	10.89	41.55	60.00	-18.45	QP

4. RADIATED EMISSION

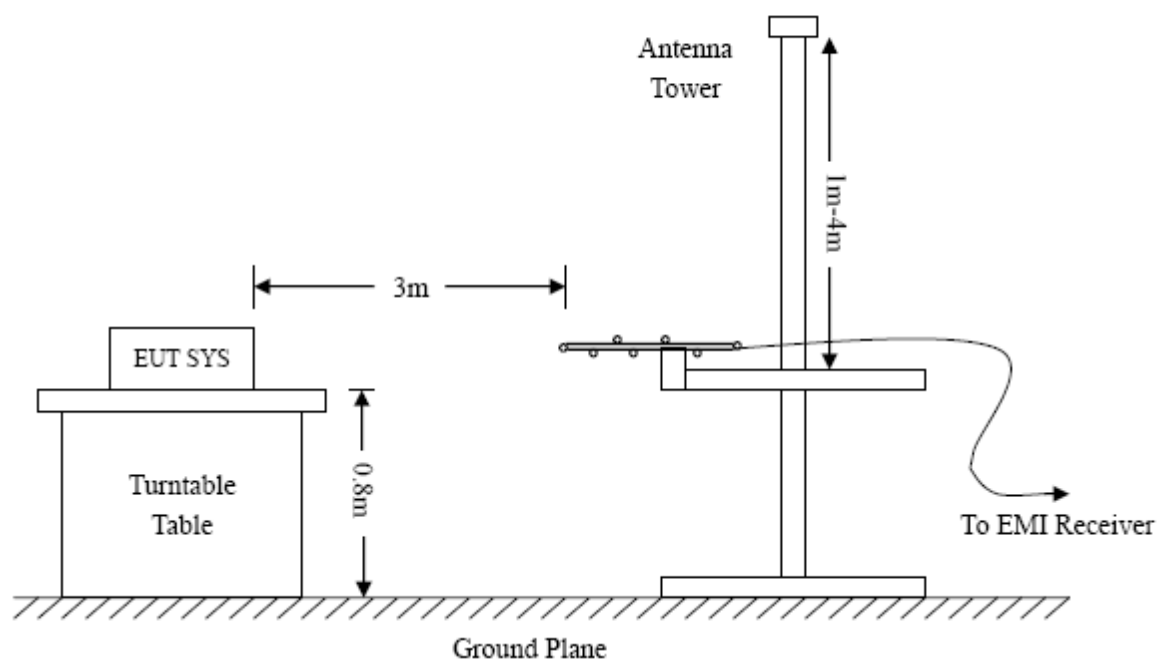
4.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Radiated Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

4.2 Test Procedure

Test is conducting under the description of EN61000-6-3, Radio disturbance characteristics - Limits and methods of measurement.



4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{EN61000-6-3 Limit}$$

4.4 Environmental Conditions

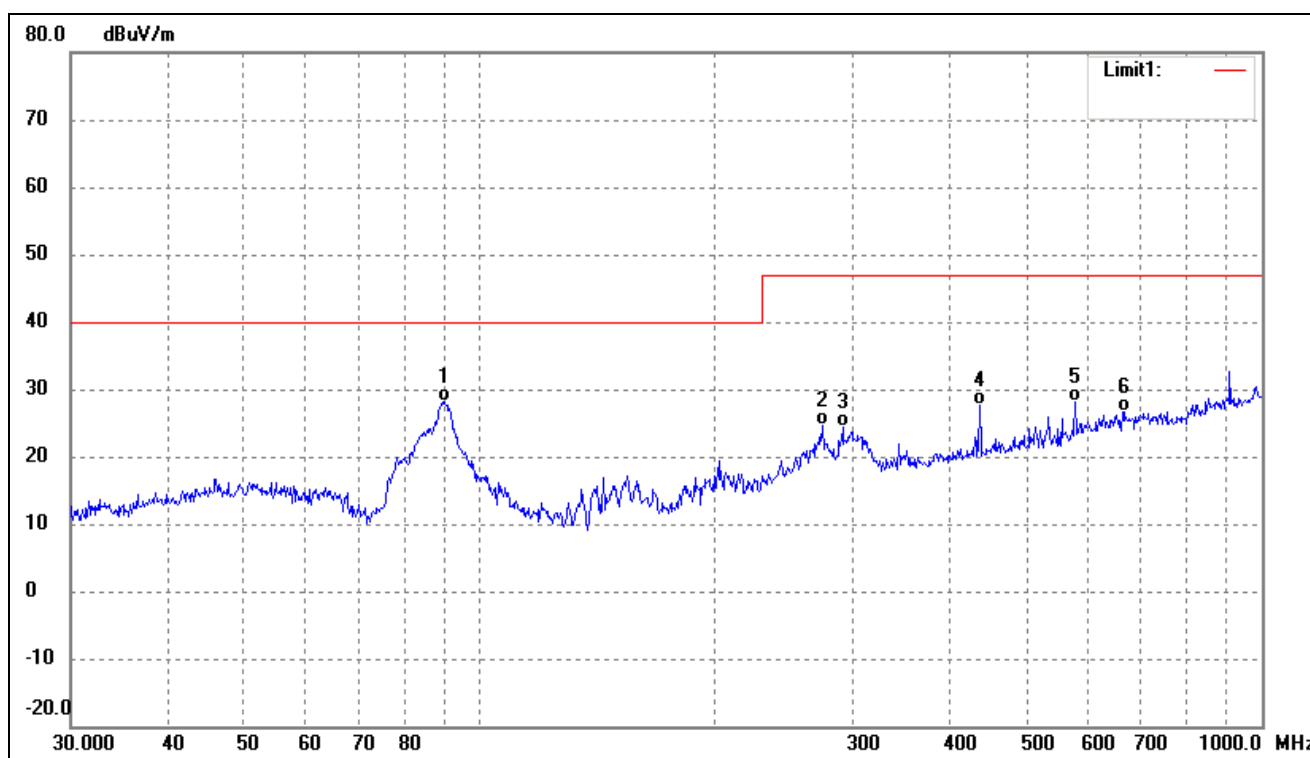
Temperature:	23° C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

According to the data in section 4.5, the EUT complied with the EN61000-6-3 standards, and had the worst margin is:

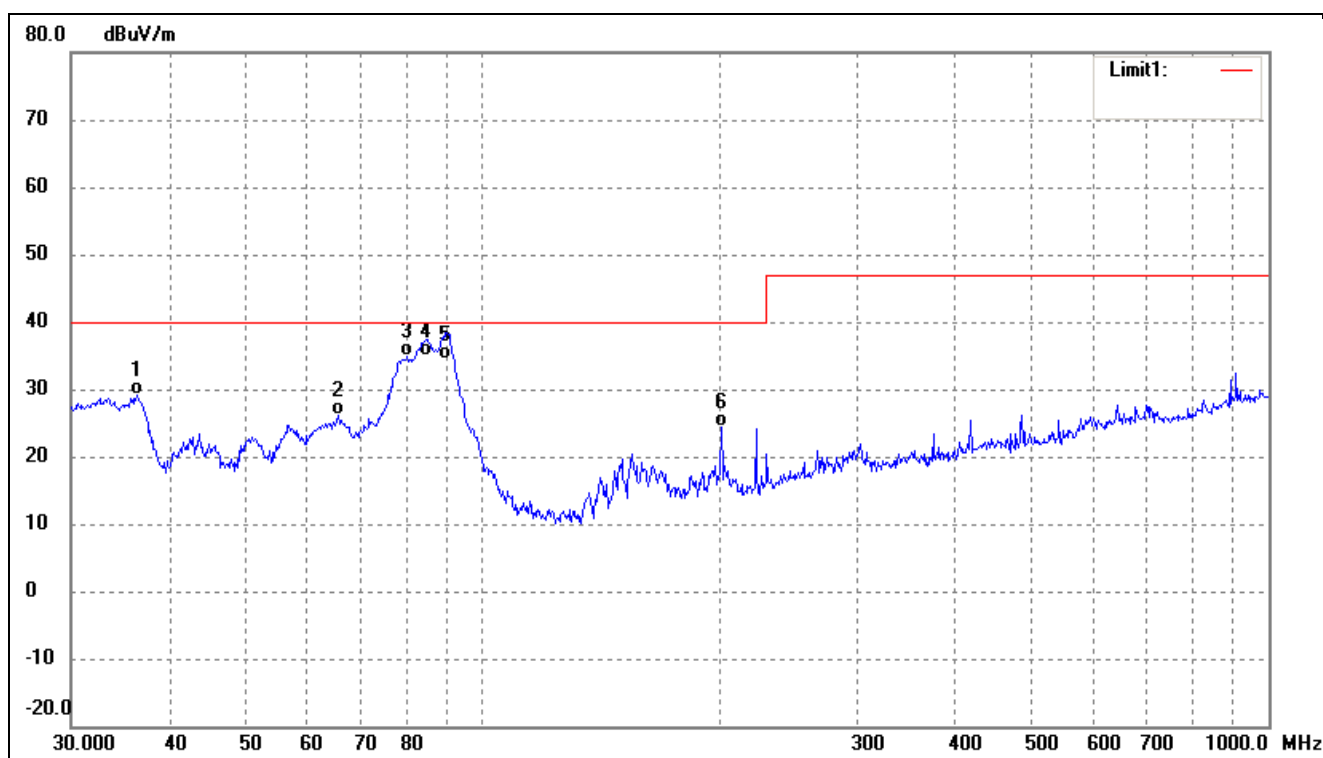
-5.01 dB at 84.9995 MHz in the Vertical polarization, TM1 Mode, 30 MHz to 1 GHz, 3Meters

Test mode:	TM1	Polarity:	Horizontal
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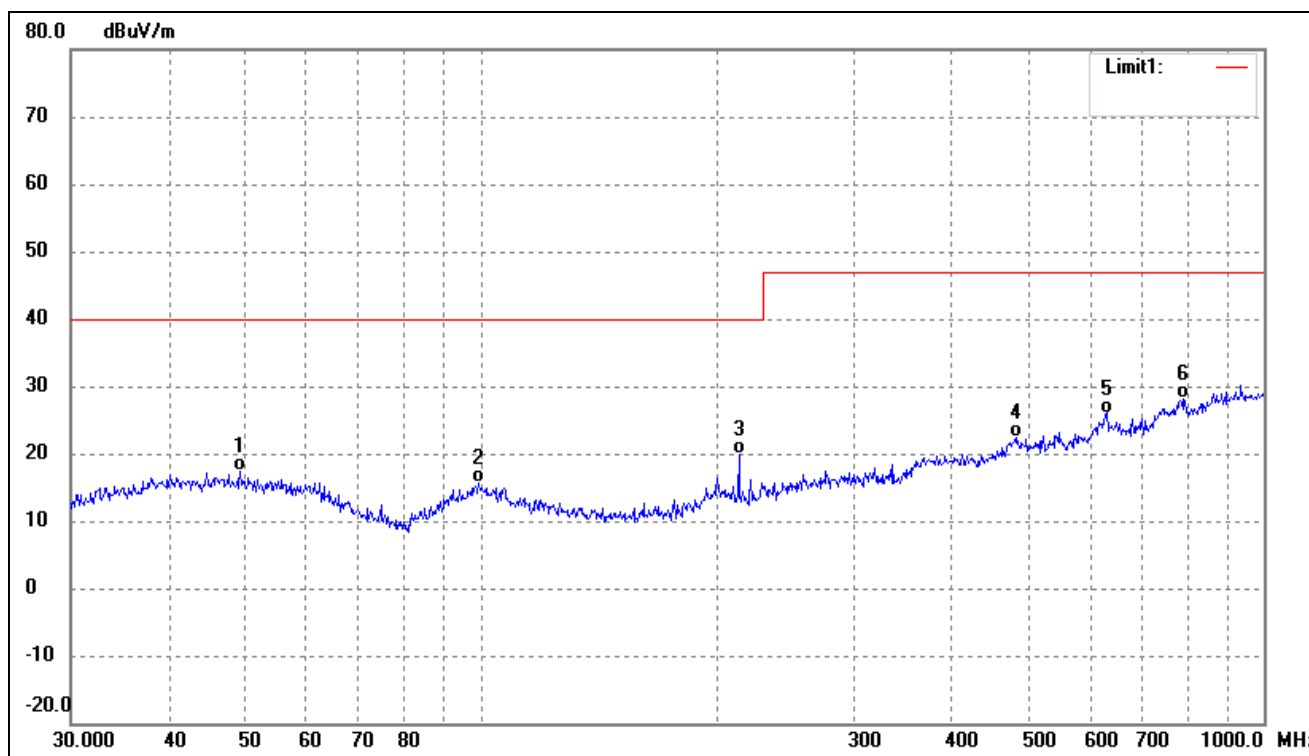
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	90.2205	41.49	-13.44	28.05	40.00	-11.95	263	100	QP
2	274.1939	33.54	-9.00	24.54	47.00	-22.46	90	100	QP
3	291.0360	32.78	-8.44	24.34	47.00	-22.66	334	100	QP
4	435.5898	33.60	-6.08	27.52	47.00	-19.48	104	100	QP
5	576.6443	32.01	-3.89	28.12	47.00	-18.88	102	100	QP
6	668.1423	29.24	-2.58	26.66	47.00	-20.34	182	100	QP

Test mode:	TM1	Polarity:	Vertical
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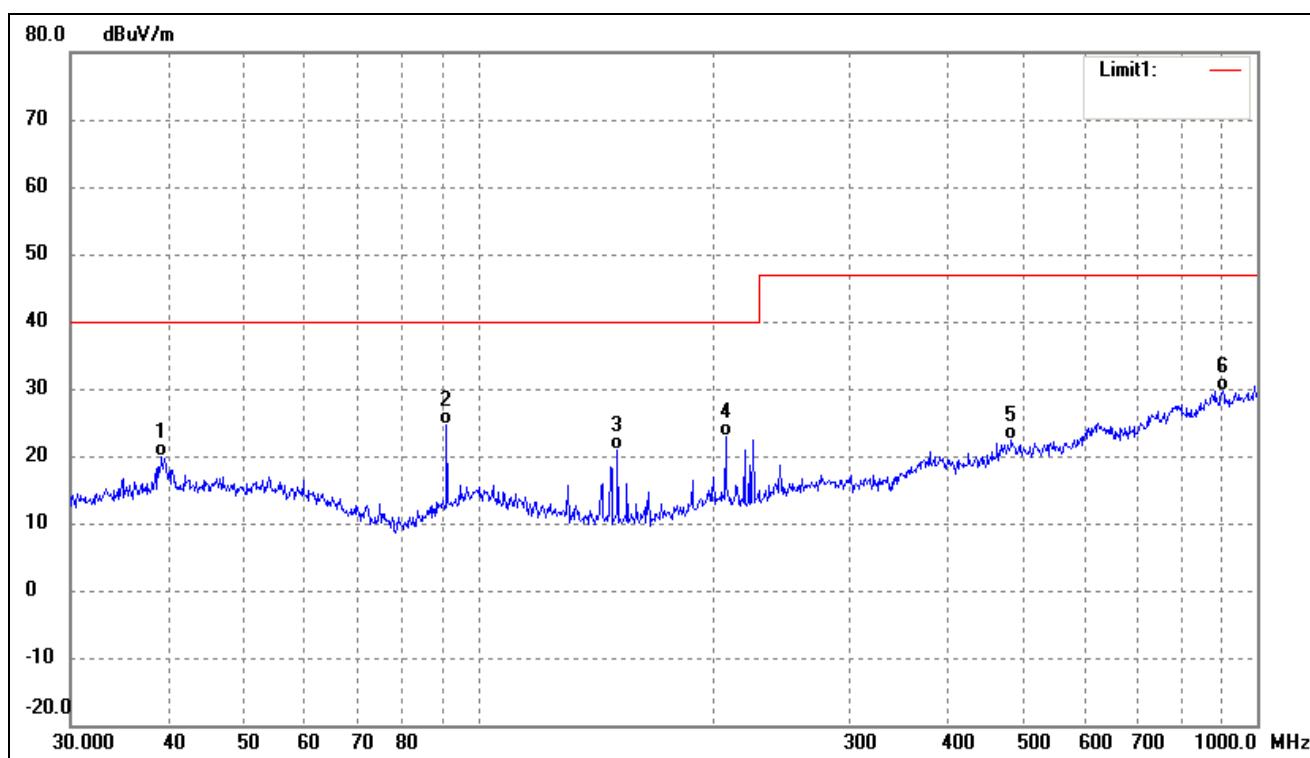
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	36.3814	43.12	-13.93	29.19	40.00	-10.81	323	100	QP
2	65.5727	40.24	-14.22	26.02	40.00	-13.98	90	100	QP
3	80.3619	52.59	-17.76	34.83	40.00	-5.17	252	100	QP
4	84.9995	52.29	-17.30	34.99	40.00	-5.01	101	100	QP
5	89.5900	48.12	-13.72	34.40	40.00	-5.60	276	100	QP
6	201.3930	37.65	-13.16	24.49	40.00	-15.51	187	100	QP

Test mode:	TM2	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	49.3594	27.95	-10.68	17.27	40.00	-22.73	332	100	QP
2	99.5281	27.05	-11.50	15.55	40.00	-24.45	108	100	QP
3	213.7634	32.12	-12.20	19.92	40.00	-20.08	66	100	QP
4	482.2156	27.91	-5.44	22.47	47.00	-24.53	169	100	QP
5	631.6884	29.03	-3.03	26.00	47.00	-21.00	170	100	QP
6	790.6188	27.95	0.21	28.16	47.00	-18.84	292	100	QP

Test mode:	TM2	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.2991	30.54	-10.57	19.97	40.00	-20.03	58	100	QP
2	91.1746	38.00	-13.36	24.64	40.00	-15.36	147	100	QP
3	151.0666	35.72	-14.96	20.76	40.00	-19.24	93	100	QP
4	207.8501	34.82	-11.94	22.88	40.00	-17.12	100	100	QP
5	483.9094	27.85	-5.51	22.34	47.00	-24.66	248	100	QP
6	903.3094	28.14	1.46	29.60	47.00	-17.40	300	100	QP

5. Electrostatic Discharges (ESD)

5.1 Test Procedure

Test is conducting under the description of EN 61000-4-2.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

5.2 Electrostatic Discharge Immunity Test Data

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
screen	A	A	A	A	A	A	A	A	/	/
Gap	A	A	A	A	A	A	A	A	/	/
surface	A	A	A	A	A	A	A	A	/	/
Key	A	A	A	A	A	A	A	A	/	/
DC Port	A	A	A	A	A	A	A	A		

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
metallic surface	A	A	A	A	/	/	/	/	/	/

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP & VCP)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
HCP (6 Sides)	A	A	A	A	/	/	/	/	/	/
VCP (4 Sides)	A	A	A	A	/	/	/	/	/	/

Test Result: Pass

6. Continuous Radiated Disturbances (R/S)

6.1 Test Procedure

Test is conducting under the description of EN 61000-4-3.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1010 mbar

6.2 Continuous Radiated Disturbances Test Data

Frequency step: 1% of fundamental

Dwell time: 1 second

Modulation: AM by 1kHz sine wave with 80% modulation depth

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	3	A	A	A	A	A	A	A	A
1400-2000	3	A	A	A	A	A	A	A	A
2000-2700	1	A	A	A	A	A	A	A	A

Test Result: Pass

7. Electrical Fast Transients (EFT)

7.1 Test Procedure

Test is conducting under the description of EN 61000-4-4.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

7.2 Electrical Fast Transients Test Data

EN 61000-4-4 Test Points		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L1	A	A	A	A	/	/	/	/
	L2	A	A	A	A	/	/	/	/
	PE	/	/	/	/	/	/	/	/
	L1+L2	A	A	A	A	/	/	/	/
	L1 + PE	/	/	/	/	/	/	/	/
	L2 + PE	/	/	/	/	/	/	/	/
	L1+L2+PE	/	/	/	/	/	/	/	/
Signal ports	/	/	/	/	/	/	/	/	/

Test Result: Pass

8. Surges

8.1 Test Procedure

Test is conducting under the description of EN 61000-4-5.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

8.2 Surges Test Data

Level	Voltage	Poll	Path	Pass	Fail
1	0.5kV	±	L-N	A	/
2	1kV	±	L-N	B	/
3	2kV	±	L-N, L-PE, N-PE	/	/
4	4kV	±	L-N, L-PE, N-PE	/	/

Test Result: Pass

9. Continuous Conducted Disturbances (C/S)

9.1 Test Procedure

Test is conducting under the description of EN 61000-4-6.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

9.2 Continuous Conducted Disturbances Test Data

Sweep frequency range: 150kHz~80MHz

Frequency step: 1% of fundamental

Dwell time: 1 second

Level	Voltage Level (e.m.f.) U_0	Modulation:	Pass	Fail
1	1	AM 80%, 1kHz sinewave	/	/
2	3	AM 80%, 1kHz sinewave	A	/
3	10	AM 80%, 1kHz sinewave	/	/
X	Special	/	/	/

Test Result: Pass

10. Power-Frequency Magnetic Fields (PFMF)

10.1 Test Procedure

Test is conducting under the description of EN 61000-4-8.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	1011 mbar

10.2 Power-Frequency Magnetic Field Test Data

Level	Magnetic Field Strength (r.m.s) A/m	Frequency Hz	Induction Coil Postion	Pass	Fail
1	1	50	X, Y, Z	/	/
2	3	50	X, Y, Z	A	/
3	10	50	X, Y, Z	/	/
X	Special	/		/	/

Test Result: Pass

EXHIBIT 1 - PRODUCT LABELING

Proposed CE Label Format

Gas Monitor

Model: WT8811

Brand: WINTACT

Importer Name: XXX

Importer Address: XXX

ROOM C, FLOOR 6 BLOCK B, DONGFANG JIANFU YIJING
INDUSTRIAL ZONE, GONGMING TOWN, GUANGMING
DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE,
CHINA

Specifications: Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT. The 'CE' marking must be affixed to the EUT or to its data plate. Where this is not possible or not warranted on account of the nature of the apparatus, it must be affixed to the packaging, if any, and to the accompanying documents. The 'CE' marking is allowed less than 5 mm but must clear. If the 'CE' marking is reduced or enlarged the proportions given in the above graduated drawing must be respected. The Importer name, address and Manufacturer name and address should indicate on marking label or packaging or in a document accompanying

Proposed Label Location on EUT

CE Label Location



EXHIBIT 2 - EUT PHOTOGRAPHS

EUT View 1



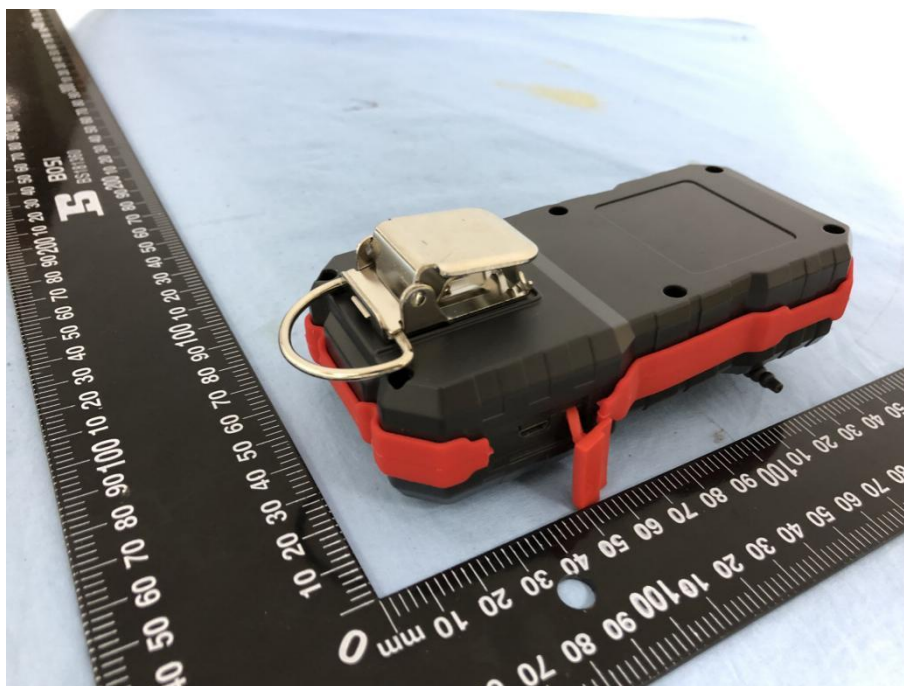
EUT View 2



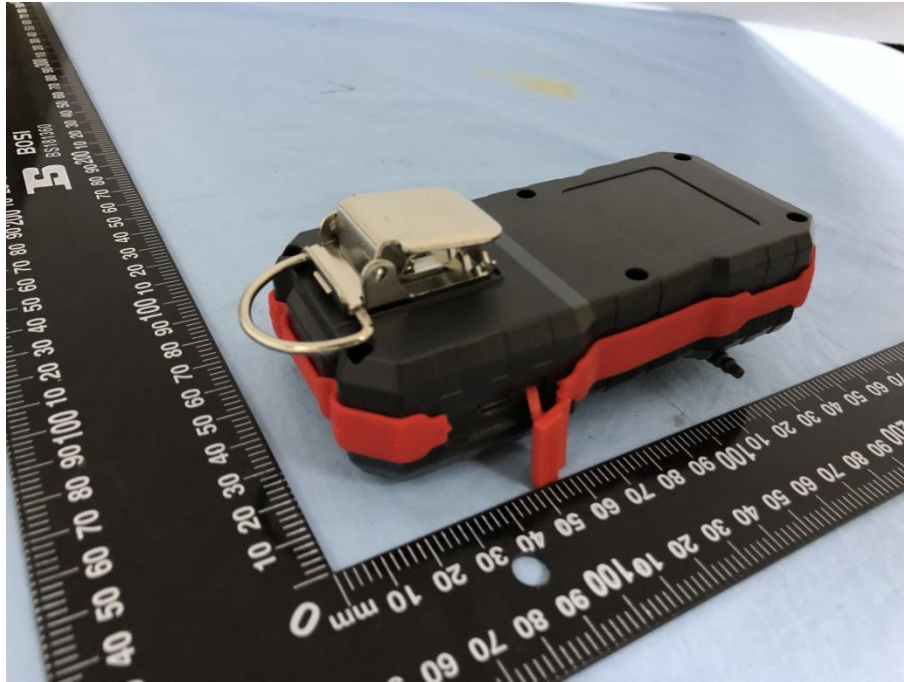
EUT View 3



EUT View 4

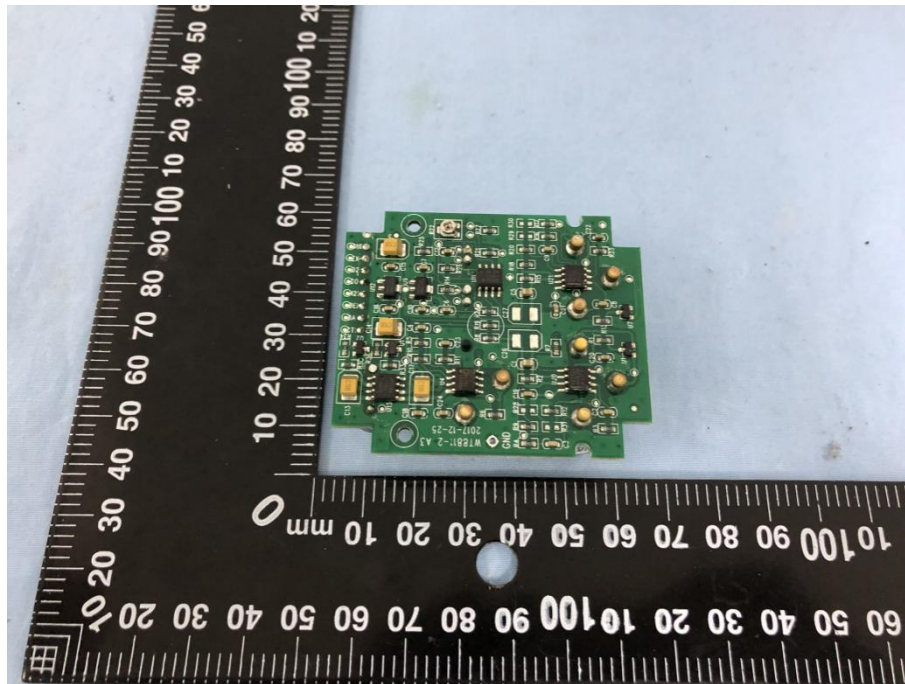
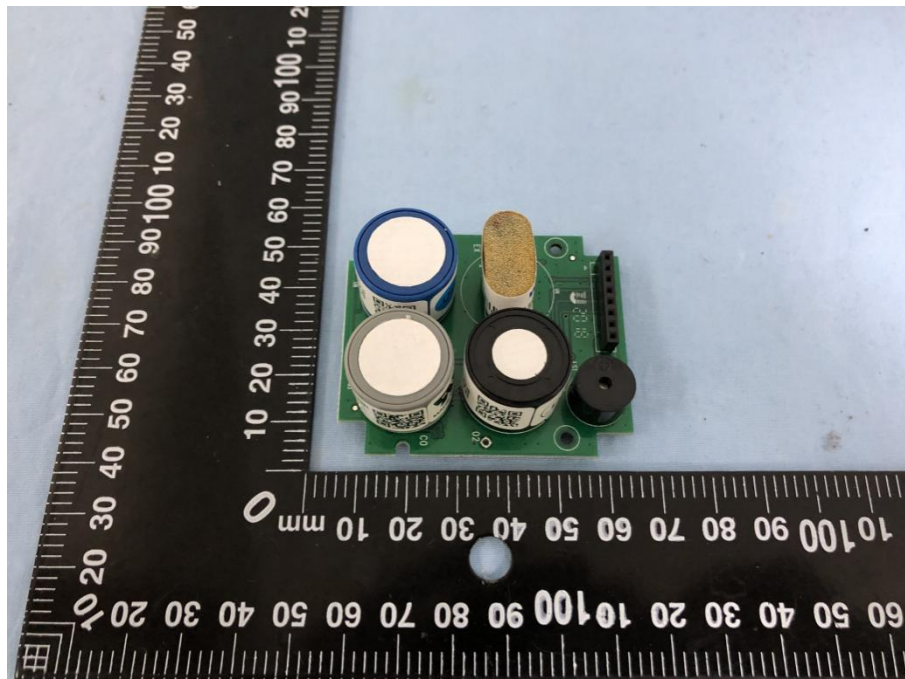


EUT View 5

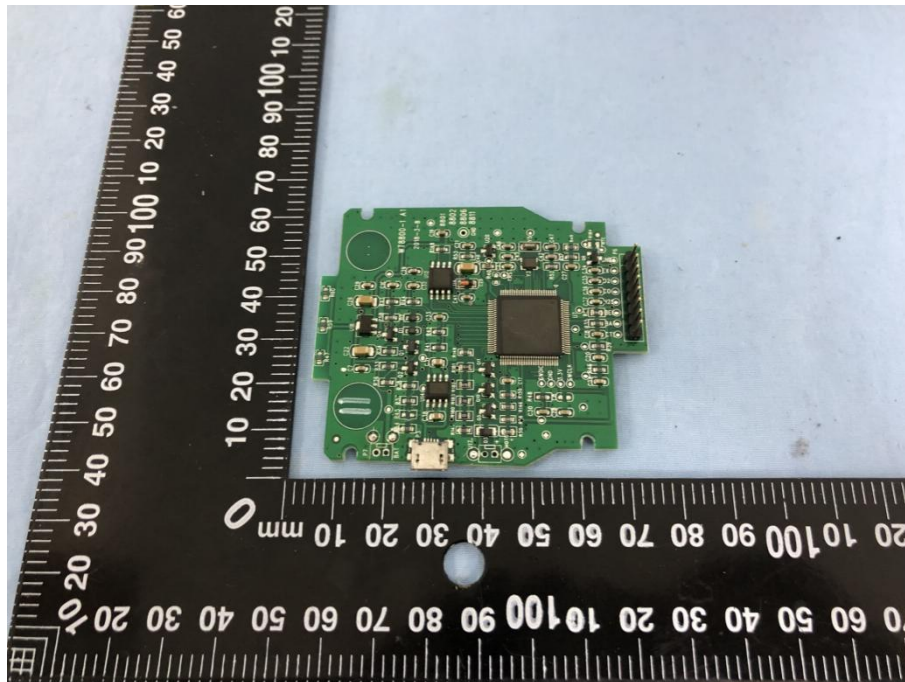


EUT Housing and Board View 1



Solder Board-Component View 1**Solder Board-Component View 2**

Solder Board-Component View 3



Solder Board-Component View 4

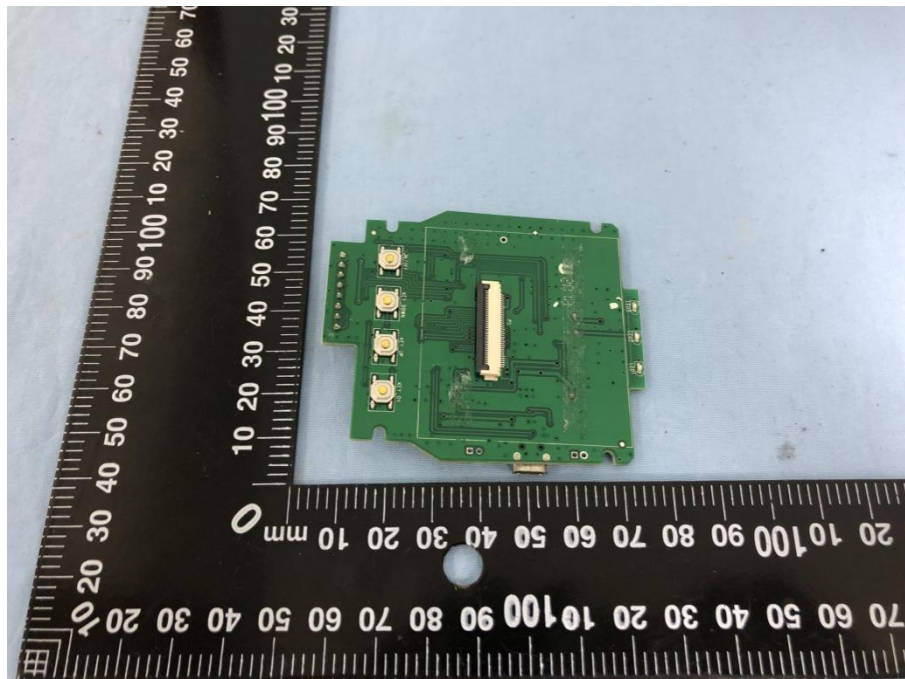


EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

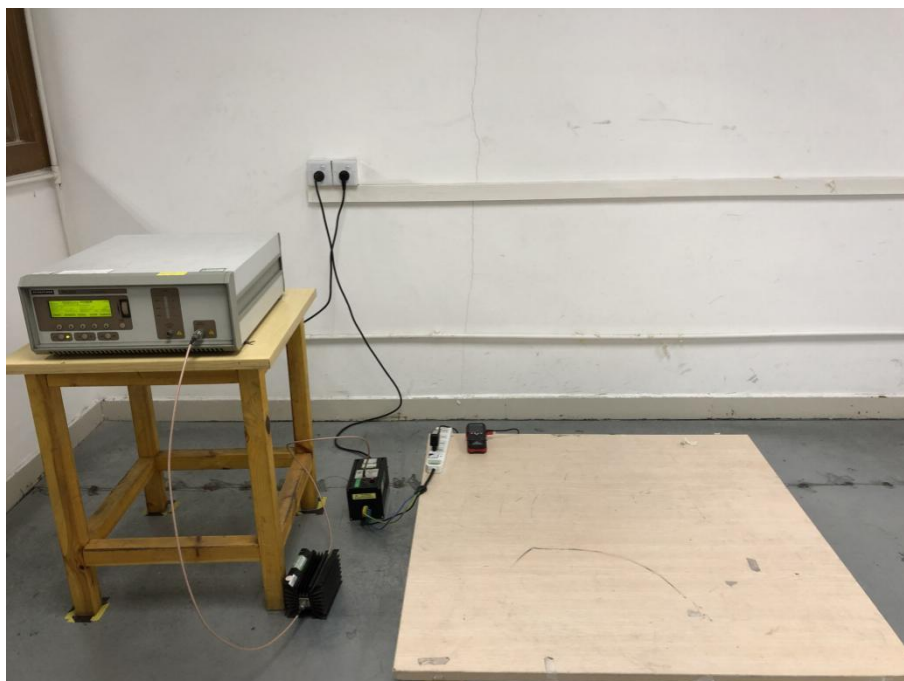
Conduction Emission Test View

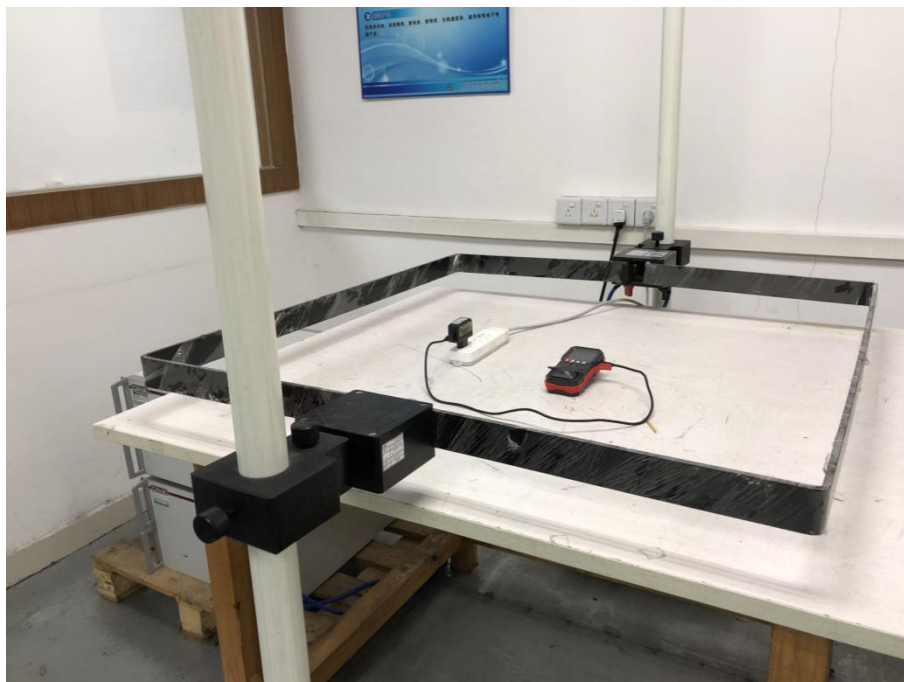


Radiation Emission Test View



EN 61000-4-2 Test View**EN 61000-4-3 Test View**

EN 61000-4-4/5 Test View**EN 61000-4-6 Test View**

EN 61000-4-8 Test View

******* END OF REPORT *******