



TEST REPORT

Reference No...... : WTD24D07175715W001
Manufacturer*..... : Shenzhen EBELONG Technology Co., Ltd.
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Xinqiao Tongfuyu Industrial district, Gonghe community, Shajing
subdistrict, Baoan, Shenzhen city, Guangdong, China.
Factory..... : Guang Dong EBELONG Intelligent Technology Co., Ltd
Address..... : 4th Floor, Building 2, Hengmingzhu Technology Industrial Park,
Xinqiao Tongfuyu Industrial district, Gonghe community, Shajing
subdistrict, Baoan, Shenzhen city, Guangdong, China.
Product..... : Refer to section 3.3.
Model(s)..... : Refer to section 3.3.
Standards..... : EN IEC 55015:2019+A11:2020
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A2:2021
EN IEC 61547:2023
Date of Receipt sample : 2018-05-31
2024-07-31
Date of Test..... : 2018-05-31 to 2018-06-09
2024-08-01 to 2024-08-07
Date of Issue..... : 2024-08-09
Test Result..... : **Pass**

Remarks:

1. The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.
2. “*” **manufacturer** means any natural or legal person who manufactures radio equipment or has radio equipment designed or manufactured, and markets that equipment under his name or trade mark.

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2 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD24D07175715W001	2018-05-31 2024-07-31	2018-05-31 to 2018-06-09 2024-08-01 to 2024-08-07	2024-08-09	Original	-	Valid

Note:

This test report (Ref. No.: WTD24D07175715W001) is only valid with the original test report (Waltek Services (Shenzhen) Co., Ltd. - Report Ref. No.: WTS18S05113114E).

This update only updates the standard version.

After technical evaluation, radiated emission (30MHz to 1 000MHz) was fully retested and shown the data into this report.

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3 General Information

3.1 General Description of E.U.T.

Product : Refer to section 3.3.

Model(s)..... : Refer to section 3.3.

Model Description..... : Refer to section 3.3.

Remark..... : N/A

3.2 Details of E.U.T.

Ratings..... : Refer to section 3.3.

3.3 Model List

RX:

Product Name	Model	Description	Ratings
Wireless Receiving Controller	ERC302	Model: ERC302, ERC303, ERC304 and ERC602, ERC603, ERC604 just have different shapes.	Input: AC 100-240V 50/60Hz Load: Max 5A(LED 600W)
	ERC303		Input: AC 100-240V 50/60Hz Load: Max 5A*2CH(LED 600W)
	ERC304		Input: AC 100-240V 50/60Hz Load: Max 10A(LED 1000W)
	ERC602		Input: AC 100-240V 50/60Hz Load: Max 5A(LED 600W)
	ERC603		Input: AC 100-240V 50/60Hz Load: Max 5A*2CH(LED 600W)
	ERC604		Input: AC 100-240V 50/60Hz Load: Max 10A(LED 1000W)

**TX:**

	Model	Description
E1	EQ0114	Gold wire lattice one-key switch
	EQ0214	Gold wire lattice double key switch
	EQ0314	Gold wire grid three-key switch
	EQ0133	Rose black one-key switch
	EQ0233	Rose black double key switch
	EQ0333	Rose black three-key switch
	EQ0122	Wire silver one-key switch
	EQ0222	Draw silver double key switch
	EQ0322	Draw silver three-key switch
	EQ0143	Blue one-key switch
	EQ0243	Blue two-key switch
	EQ0343	Blue three-key switch
	EE0154	White one-key switch
	EE0254	White double key switch
	EE0354	White three-key switch
	EE0165	Gold one-key switch
	EE0265	Gold two-key switch
	EE0365	Gold three-key switch
	EE0187	Silver one-key switch
	EE0287	Silver two-key switch
	EE0387	Silver three-key switch
E3	EE3154	E3 series white one-key switch
	EE3254	E3 series white double key switches
	EE3165	E3 series gold one-key switch
	EE3265	E3 series gold 2-key switches

3.4 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

3.5 Abnormalities from Standard Conditions

None.



4 Test Summary

EMISSION		
Test Item	Test Standard	Result
Conducted Disturbance at Mains Terminal, 9kHz to 30MHz	EN IEC 55015	Pass
Radiation electromagnetic disturbance, 9kHz to 30MHz	EN IEC 55015	Pass
Radiated Emission (30MHz-1000MHz)	EN IEC 55015	Pass
Harmonic Current emission	EN IEC 61000-3-2	Pass
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass
IMMUNITY		
Test Item	Test Method	Result
Electrostatic Discharge(ESD)	IEC 61000-4-2	Pass
Radio-frequency electromagnetic fields (80MHz to 1GHz)	IEC 61000-4-3	Pass
Electrical Fast Transients (EFT)	IEC 61000-4-4	Pass
Surges	IEC 61000-4-5	Pass
Injected Currents, 0.15MHz to 80MHz	IEC 61000-4-6	Pass
Power-frequency magnetic field	IEC 61000-4-8	N/A
Voltage Dips and Interruptions	IEC 61000-4-11	Pass

Remark:

Pass

Test item meets the requirement

Fail

Test item does not meet the requirement

N/A

Test case does not apply to the test object



5 Equipment Used during Test

5.1 Equipment List

Conducted emissions from the AC mains power ports						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	100947	2017-09-11	2018-09-10
2	LISN	R&S	ENV216	100115	2017-09-11	2018-09-10
3	Cable	Top	TYPE16(3.5M)	-	2017-09-11	2018-09-10
Radiated electromagnetic disturbance(9kHz to 30MHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	101155	2017-09-11	2018-09-10
2	LARGE LOOP ANTENNA	Laplace	RF300	9057	2017-07-19	2018-07-18
3	Cable	Laplace	RF300	-	2017-09-11	2018-09-10
3m Semi-anechoic Chamber for Radiation(TDK)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2024-04-22	2025-04-21
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2023-11-04	2024-11-03
3	Amplifier	ANRITSU	MH648A	M43381	2024-04-22	2025-04-21
4	Cable	HUBER+SUHNER	CBL2	525178	2024-04-22	2025-04-21
5	Coupling Decoupling Network	SCHWARZBECK	CDNE M3	00139	2023-10-31	2024-10-30
Harmonic and Flicker Measuring System						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Digital Power Analyzer	SCHAFFNER	CCN 1000-1	72625	2018-04-09	2019-04-08
2	Power Source	SCHAFFNER	NSG 1007	58477	2018-04-09	2019-04-08
Electrostatic Discharge						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Electrostatic Discharge Simulator	SCHLODER	SESD 216	606144	2017-11-13	2018-11-12



Radio-frequency electromagnetic fields						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Signal Generater	R&S	SMB100A	105942	2017-09-11	2018-09-10
2	RF Power Amplifier	BONN Elektronik	BLWA0830-160/100/40D	128740	2017-09-11	2018-09-10
3	Gestockte Breitband (S tacked) Log.-per.Antenna	SCHWARZBECK	STLP9128D	043	2017-09-11	2018-09-10
4	Power Meter	R&S	NRP2	102031	2017-09-11	2018-09-10
Surge, EFT, Voltage dips and Interruption						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	All Modules Generator	SCHAFFNER	6150	34579	2017-09-21	2018-09-20
2	Capacitive Coupling Clamp	SCHAFFNER	CDN 8014	25311	2017-09-21	2018-09-20
3	Signal and Data Line Coupling Network	SCHAFFNER	CDN 117	25627	2017-09-21	2018-09-20
4	AC Power Supply	HENGYUAN	DTDGC-4	-	2017-09-21	2018-09-20
Conducted Immunity						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	RF Generator	TESEQ	NSG4070	25781	2017-09-11	2018-09-10
2	CDN M-Type	TESEQ	CDN M016	25112	2017-09-11	2018-09-10
3	EM-Clamp	TESEQ	KEMZ 801	25453	2017-09-11	2018-09-10
4	Attenuator 6dB	TESEQ	ATN6050	25376	2017-09-11	2018-09-10



5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Measurement Uncertainty

Parameter	Uncertainty (Note 1)
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emission (150kHz-30MHz)	$\pm 3.64\text{dB}$
Radiated Emission_3m (30MHz-1000MHz)	$\pm 4.53\text{ dB}$
Radiated Emission_10m (30MHz-1000MHz)	$\pm 5.24\text{ dB}$
Radiated Emission(1GHz~18GHz)	$\pm 5.03\text{dB}$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

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5.4 Test Mode

Test Item	Test Mode	Test Voltage
EN IEC 55015		
Conducted Disturbance at Mains Terminal, 9kHz to 30MHz	Working mode	AC 230V/50Hz
Radiation electromagnetic disturbance, 9kHz to 30MHz	Working mode	AC 230V/50Hz
Radiation Emission, 30MHz to 1000MHz	Standby mode	AC 230V/50Hz
	Full load mode*	AC 230V/50Hz
EN IEC 61000-3-2 and EN 61000-3-3		
Harmonic Current emission Class <u>C</u>	Working mode	AC 230V/50Hz
Voltage fluctuation and Flicker	Working mode	AC 230V/50Hz
EN 61547		
Electrostatic Discharge(ESD) <input checked="" type="checkbox"/> Air Discharge: $\pm 8\text{kV}$ <input checked="" type="checkbox"/> Contact Discharge: $\pm 4\text{kV}$ <input checked="" type="checkbox"/> HCP & VCP: $\pm 4\text{kV}$	Working mode	AC 230V/50Hz
Radio-frequency electromagnetic fields (RS) 80MHz-1000MHz, 3V/m, 80%	Working mode	AC 230V/50Hz
Electrical Fast Transients (EFT) <input checked="" type="checkbox"/> 1KV AC(Input) <input type="checkbox"/> 0.5KV DC(Input) <input type="checkbox"/> 0.5KV signal line and Control	Working mode	AC 230V/50Hz
Surges <input checked="" type="checkbox"/> 0.5KV L-N <input checked="" type="checkbox"/> 1KV L-N <input checked="" type="checkbox"/> 1KV L-PE <input checked="" type="checkbox"/> 2KV L-PE 5 positive at 90°, 5 negative at 270°.	Working mode	AC 230V/50Hz
Injected Currents, (CS) 0.15MHz to 80MHz <input type="checkbox"/> 3V AC(Input) <input type="checkbox"/> 3V DC(Input) <input type="checkbox"/> 3V signal, control (more than 3m)	Working mode	AC 230V/50Hz
Voltage Dips 70% 10P C Voltage interruptions 0 % 0.5P B	Working mode	AC 230V/50Hz
** shows the worst case mode which were recorded in this report.		



6 Emission Test Results

6.1 Conducted Disturbance at Mains Terminal

Test Requirement	: EN IEC 55015
Test Method	: EN IEC 55015
Test Result	: Pass
Frequency Range	: 9kHz to 30MHz
Class/Severity	: Table 1 of EN IEC 55015

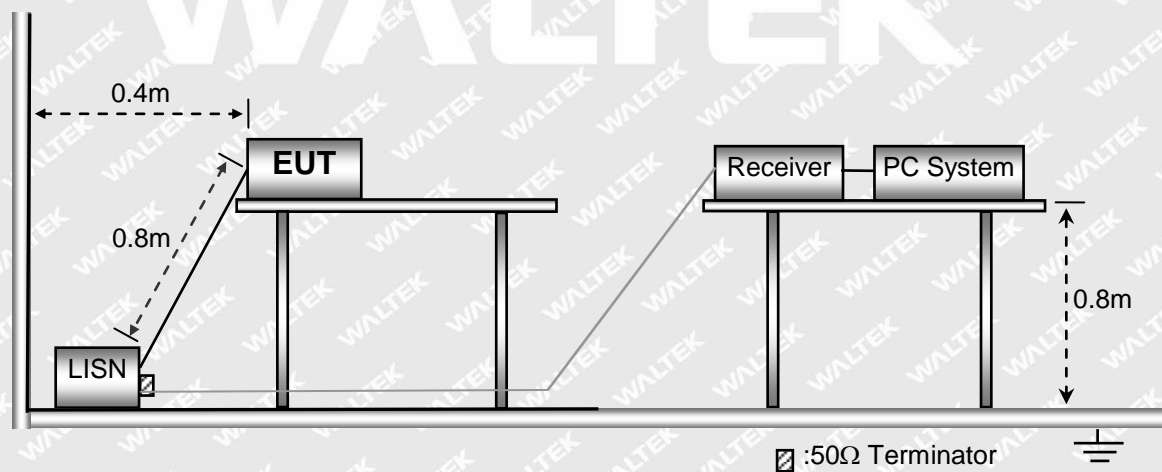
6.1.1 E.U.T. Operation

Operating Environment:

Temperature	: 21.5°C
Humidity	: 52.6%RH
Atmospheric Pressure	: 101.2kPa
EUT Operation	: Refer to section 5.4.

6.1.2 Block Diagram of Test Setup

The Conducted Disturbance at Mains Terminal tests were performed in accordance with the EN IEC 55015



6.1.3 Measurement Data

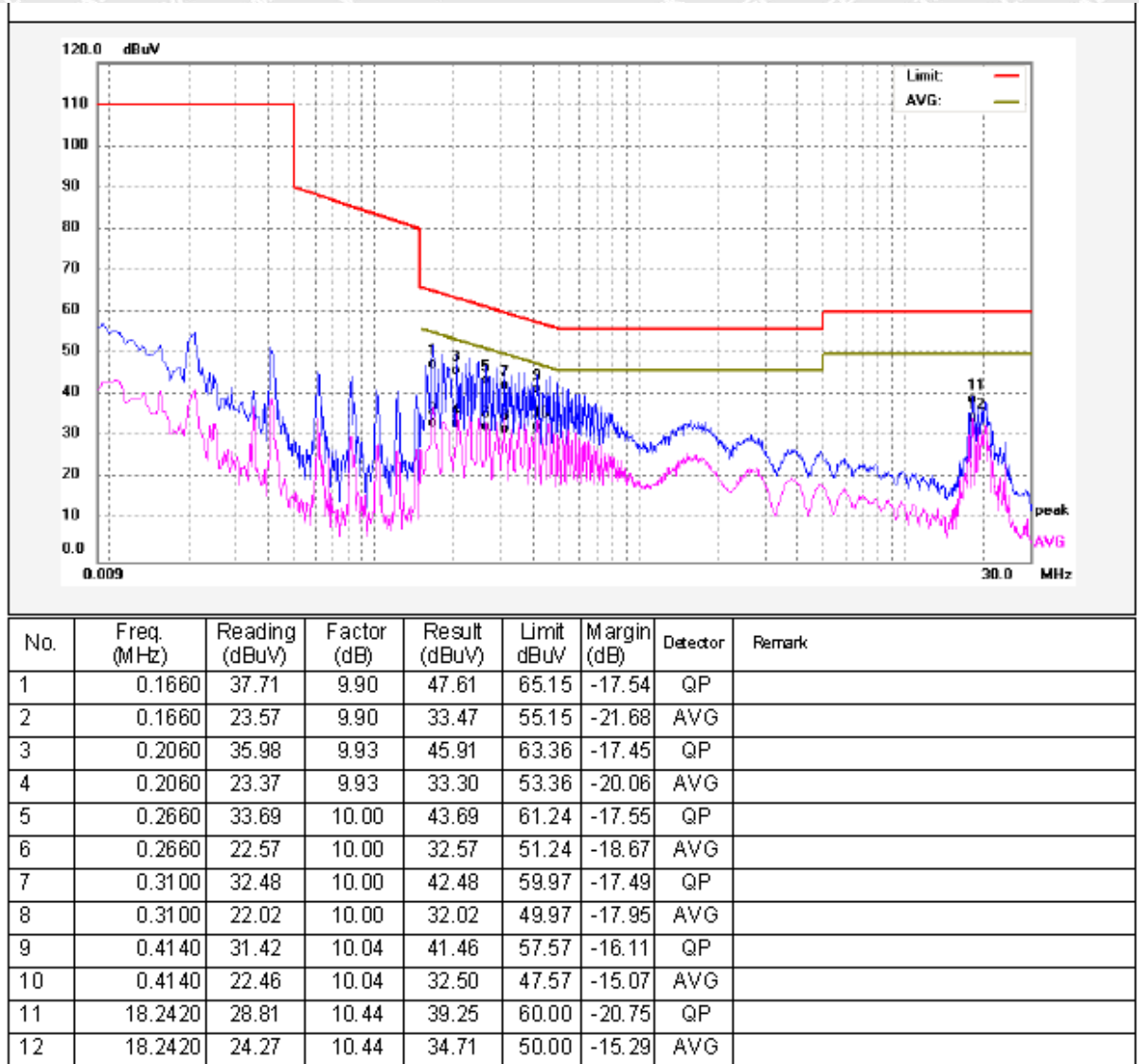
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.



6.1.4 Conducted Disturbance at Mains Terminal Test Data

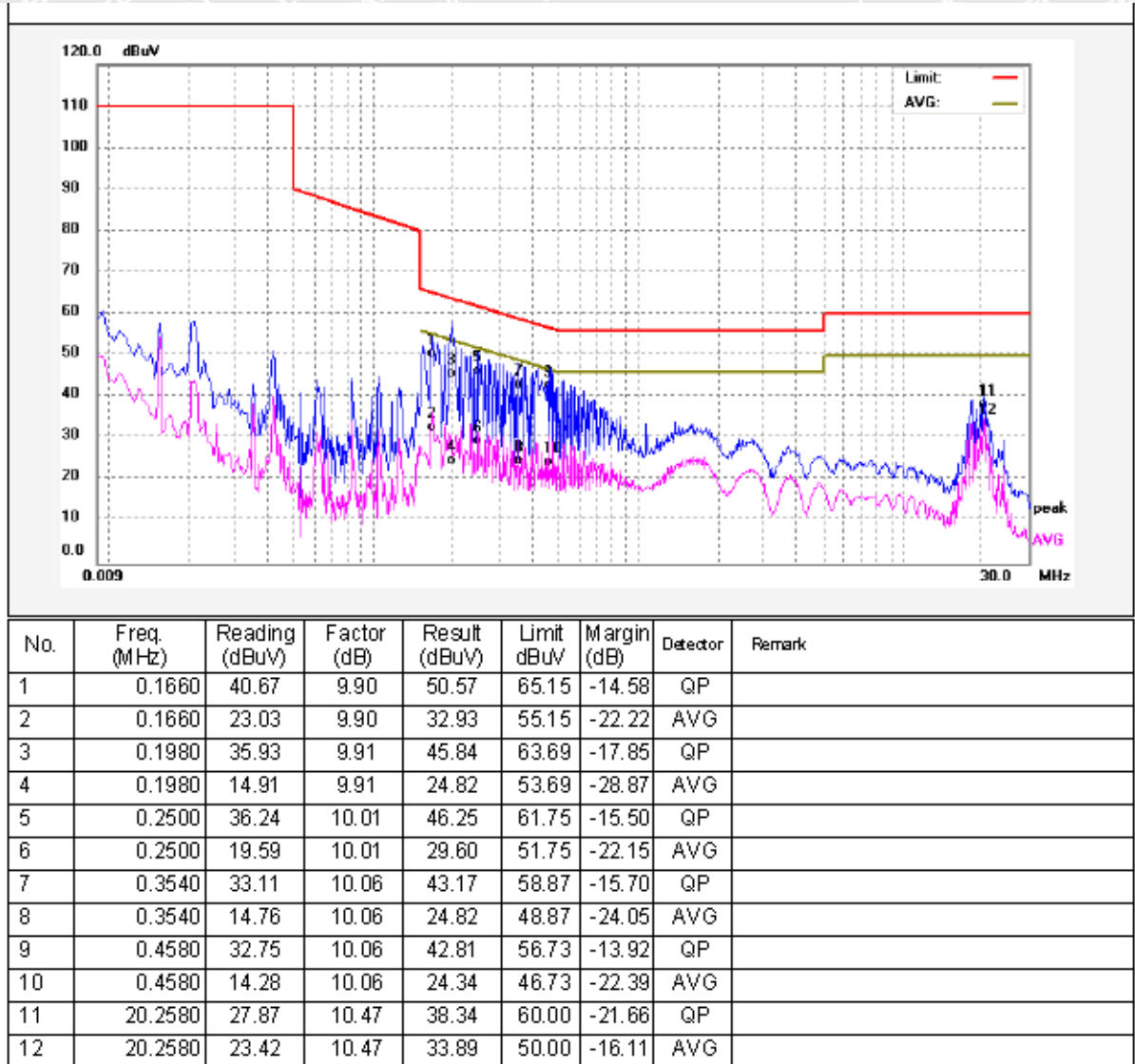
Model: ERC302

Live Line :





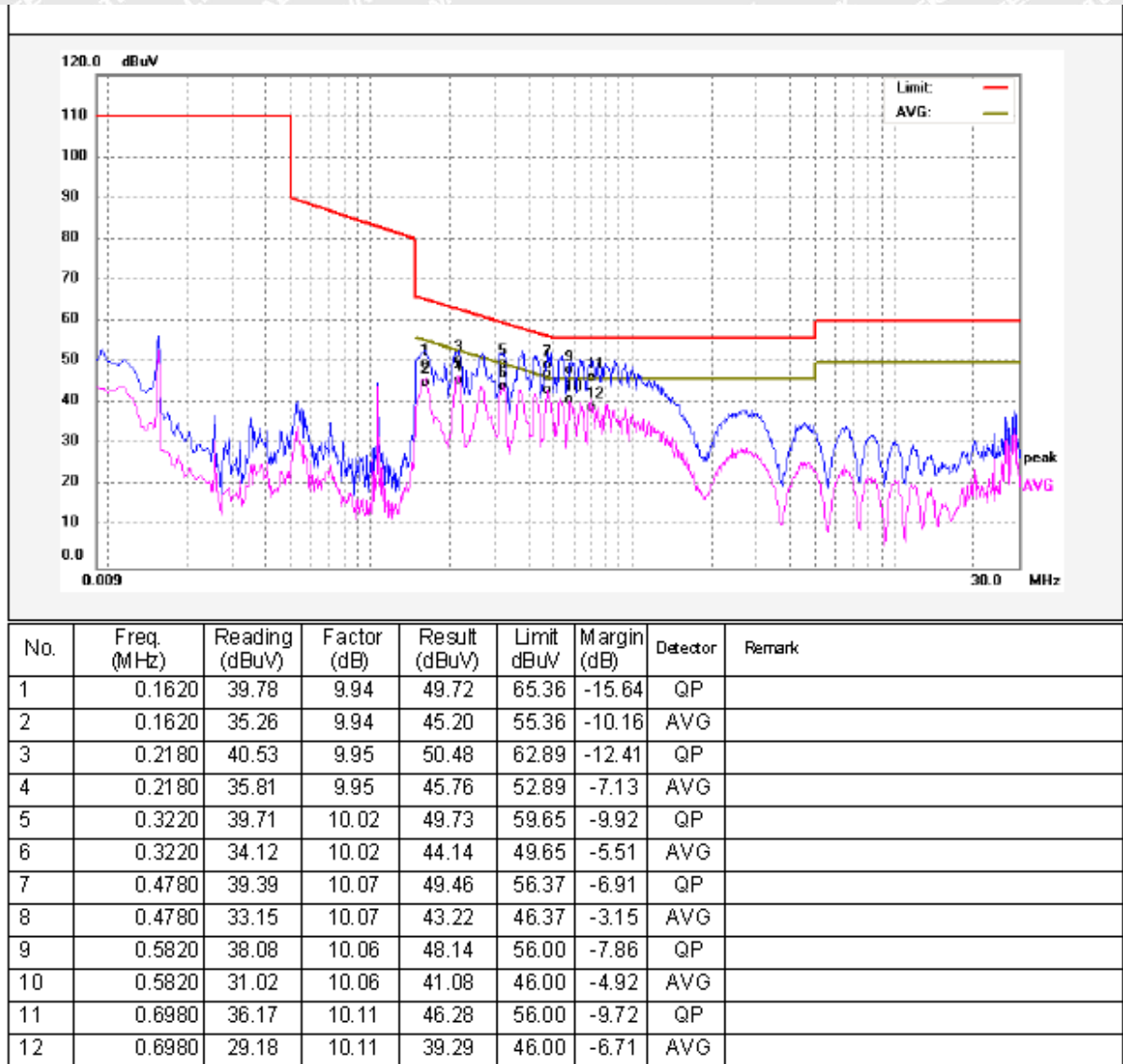
Neutral Line :





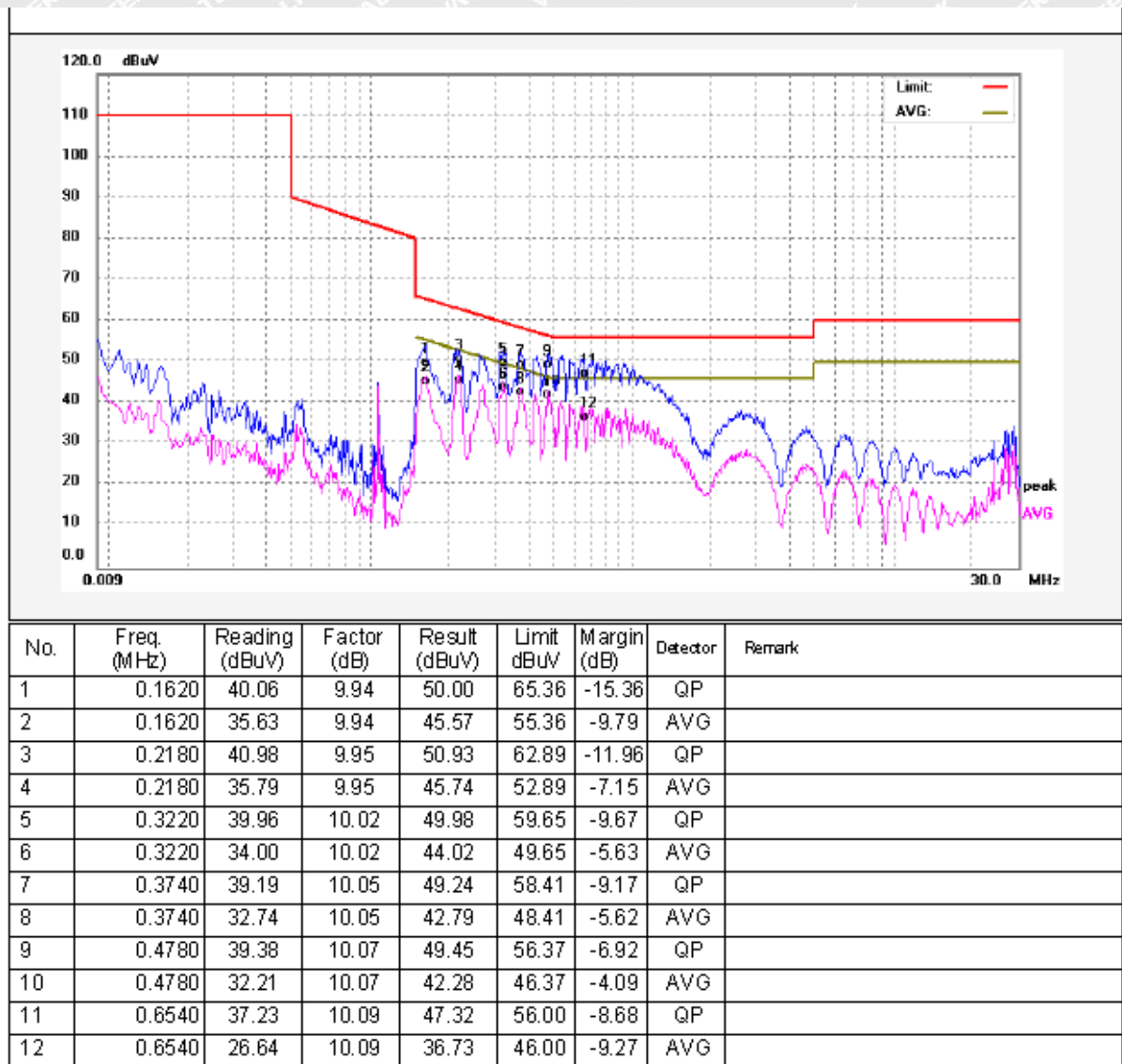
Model: ERC303

Live Line :





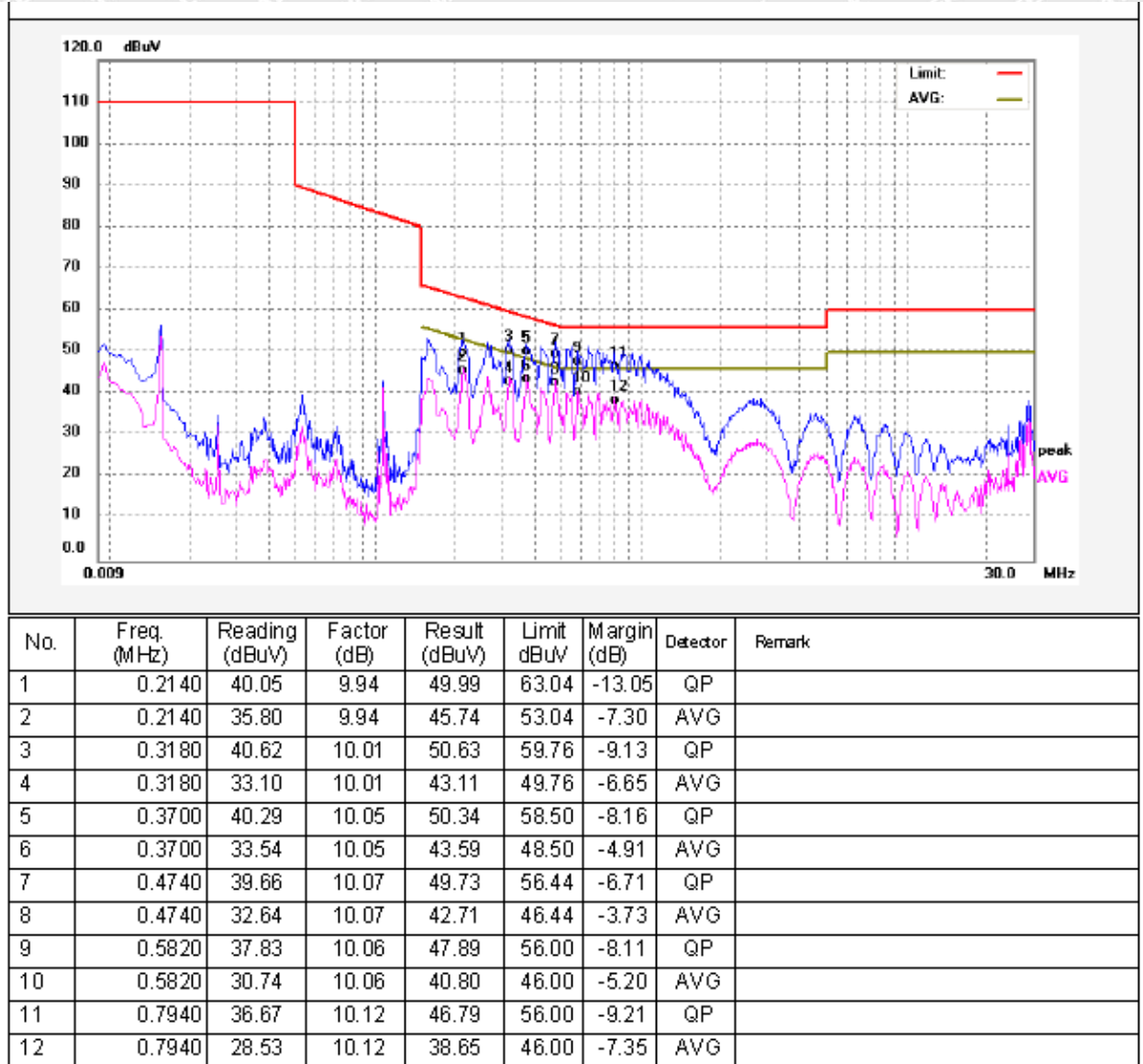
Neutral Line :





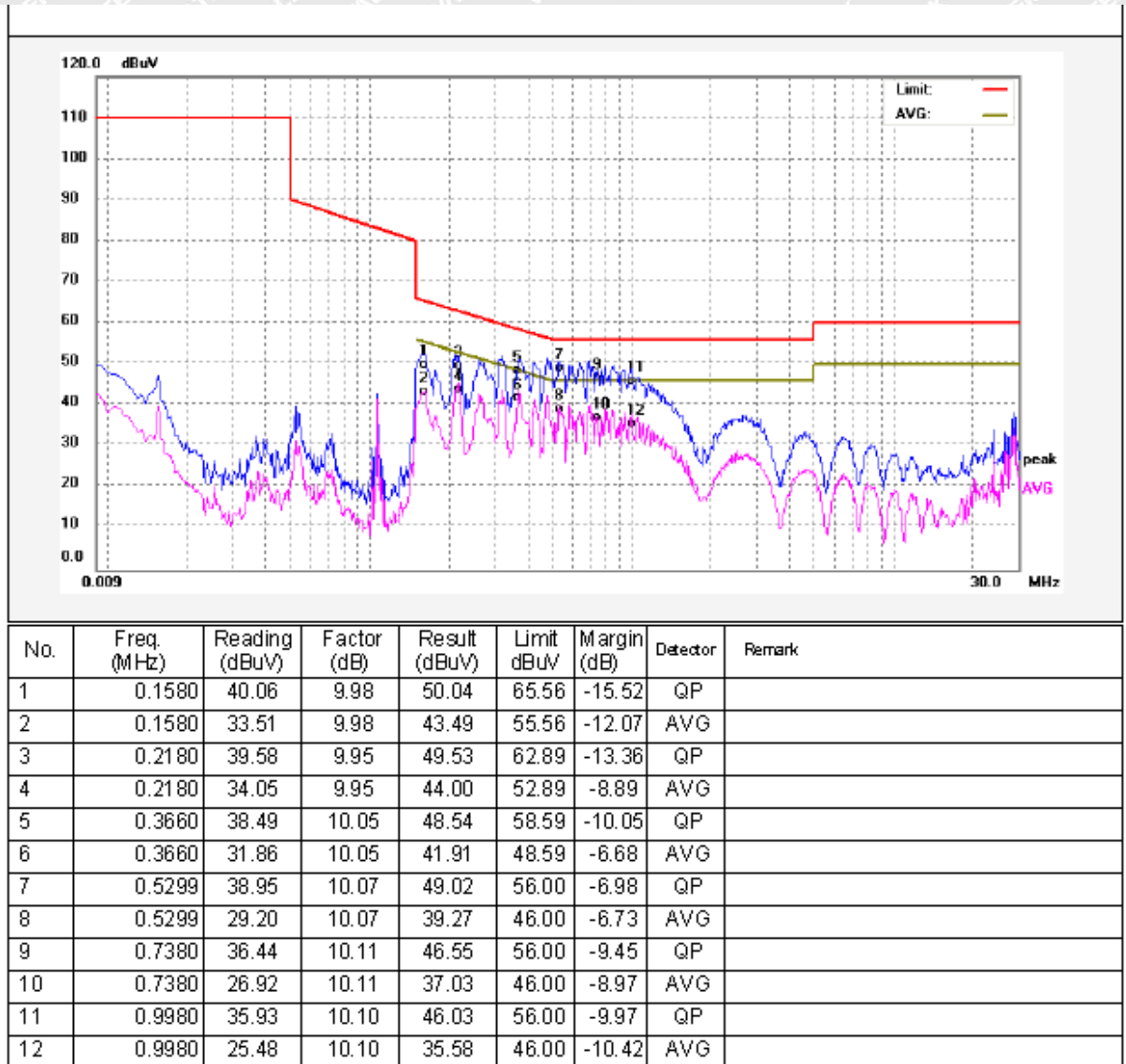
Model: ERC304

Live Line :





Neutral Line :





6.2 Radiation Electromagnetic Disturbance, 9kHz to 30MHz

Test Requirement.....	: EN IEC 55015
Test Method.....	: EN IEC 55015
Test Result	: Pass
Frequency Range	: 9kHz to 30MHz
Class/Severity.....	: Table 8 of EN IEC 55015

6.2.1 E.U.T. Operation

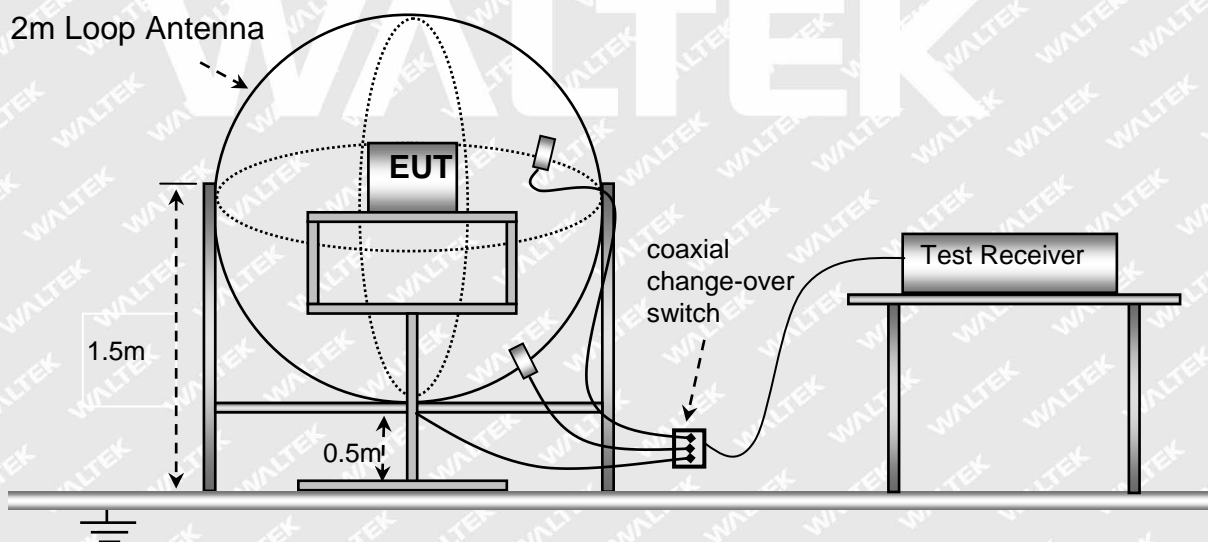
Operating Environment:

Temperature	: 21.8°C
Humidity.....	: 53.3%RH
Barometric Pressure.....	: 101.3kPa
EUT Operation.....	: Refer to section 5.4.

6.2.2 Block Diagram of Test Setup

The Radiation Electromagnetic Disturbance (9kHz to 30MHz) test was performed in accordance with the EN IEC 55015

2m Loop Antenna



6.2.3 Measurement Data

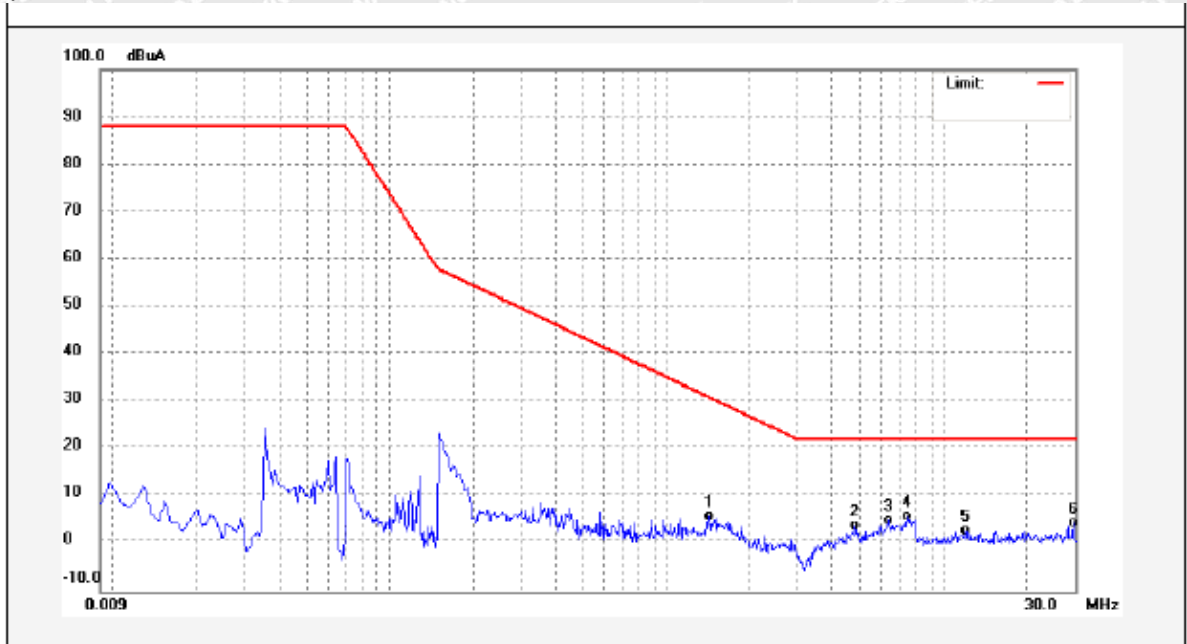
The maximised peak emissions from the EUT was scanned and measured for the loop antenna three directions. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.



6.2.4 Radiation Electromagnetic Disturbance Test Data, 9kHz to 30MHz

Model: ERC302

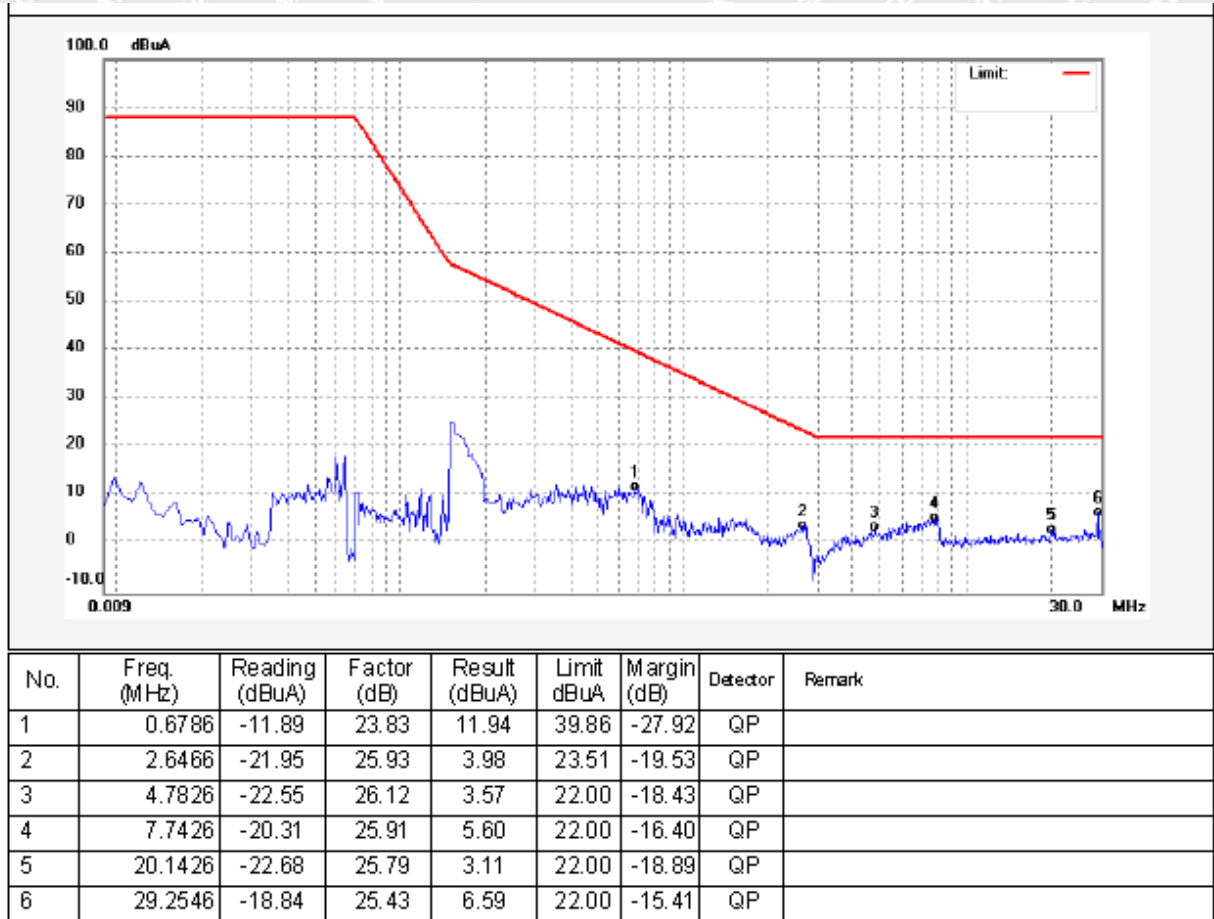
Loop X:



No.	Freq. (MHz)	Reading (dBuA)	Factor (dB)	Result (dBuA)	Limit (dBuA)	Margin (dB)	Detector	Remark
1	1.4426	-19.55	25.41	5.86	30.80	-24.94	QP	
2	4.7986	-22.14	26.12	3.98	22.00	-18.02	QP	
3	6.4186	-21.11	25.98	4.87	22.00	-17.13	QP	
4	7.4146	-20.13	25.93	5.80	22.00	-16.20	QP	
5	12.0826	-23.03	25.72	2.69	22.00	-19.31	QP	
6	29.5666	-21.02	25.42	4.40	22.00	-17.60	QP	

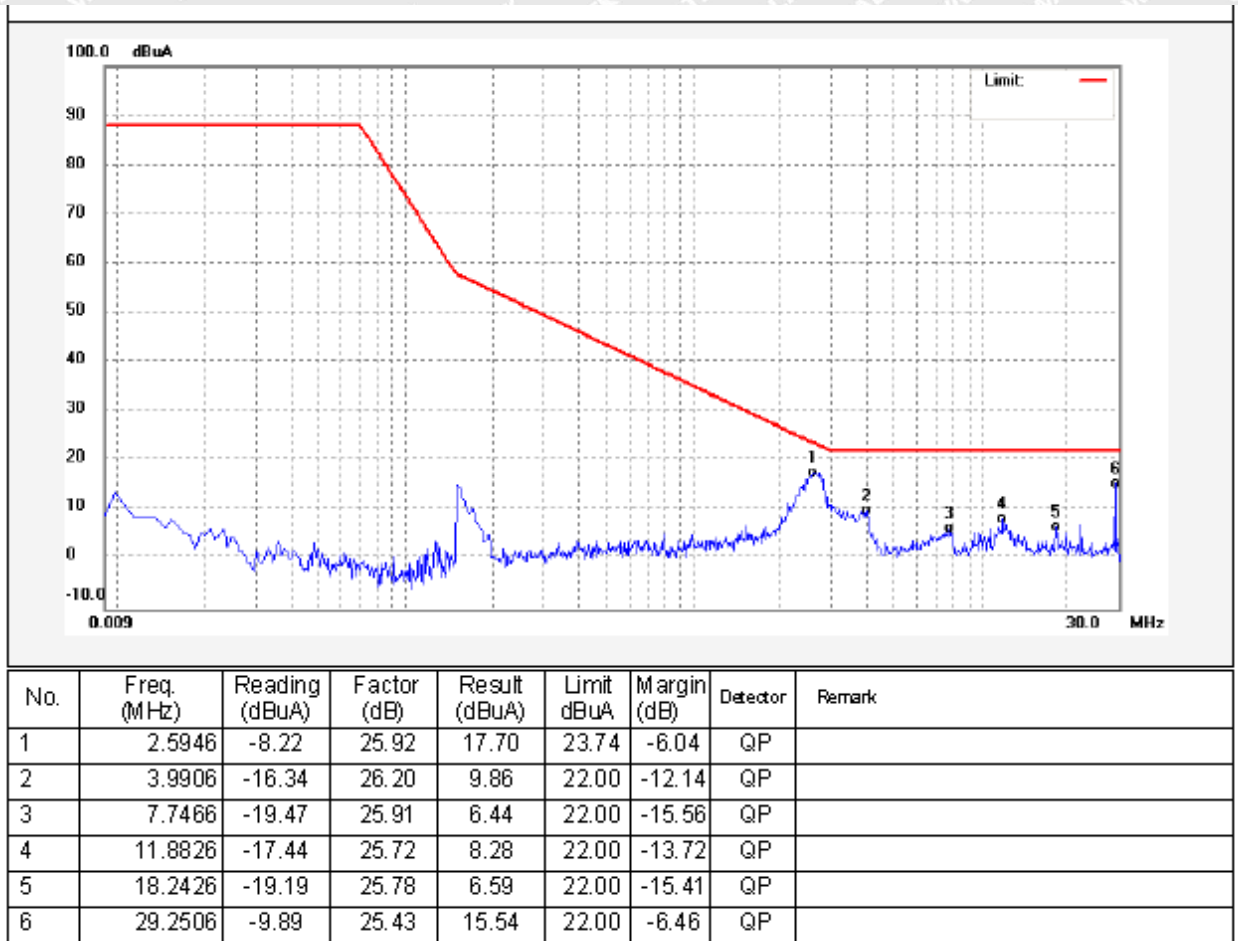


Loop Y:



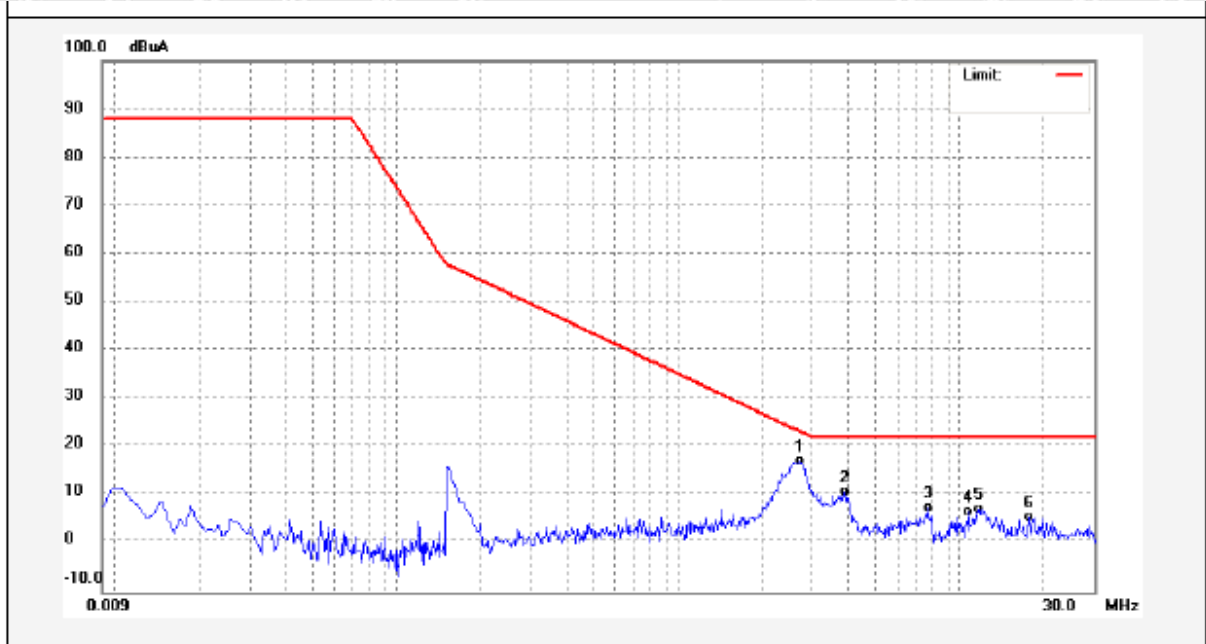


Loop Z:



**Model: ERC303**

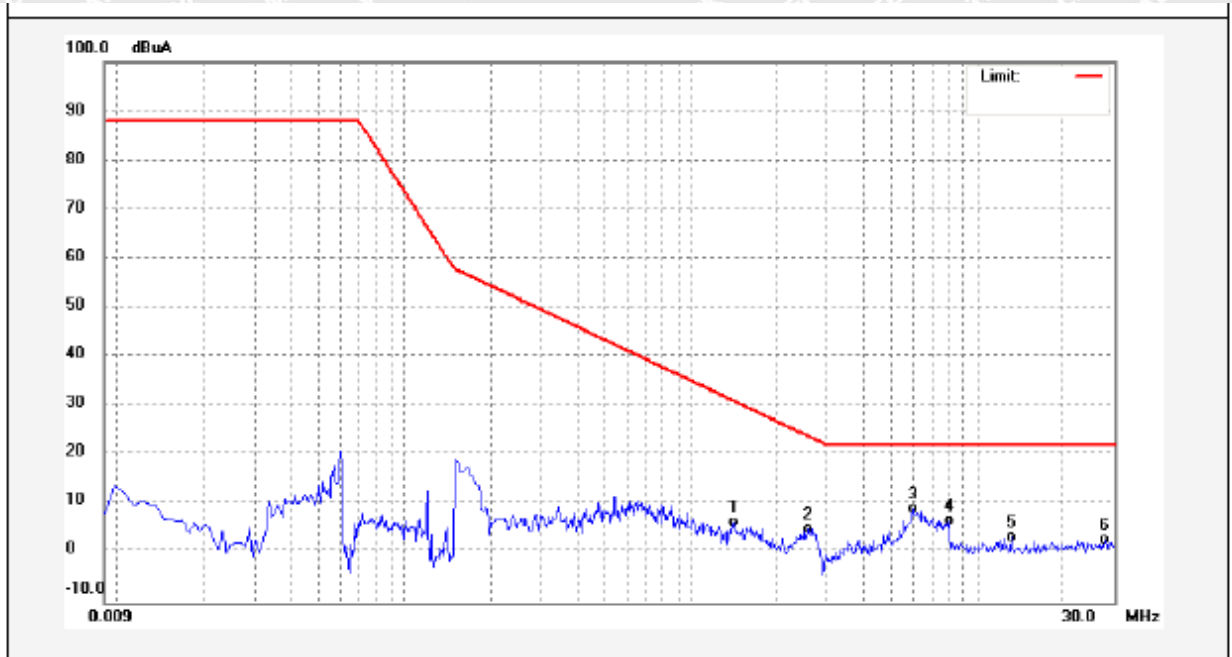
Loop X:



No.	Freq. (MHz)	Reading (dBuA)	Factor (dB)	Result (dBuA)	Limit dBuA	Margin (dB)	Detector	Remark
1	2.7106	-8.96	25.94	16.98	23.22	-6.24	QP	
2	3.9186	-15.50	26.18	10.68	22.00	-11.32	QP	
3	7.7226	-18.44	25.91	7.47	22.00	-14.53	QP	
4	10.7946	-18.94	25.71	6.77	22.00	-15.23	QP	
5	11.6506	-18.43	25.72	7.29	22.00	-14.71	QP	
6	17.6946	-20.32	25.78	5.46	22.00	-16.54	QP	



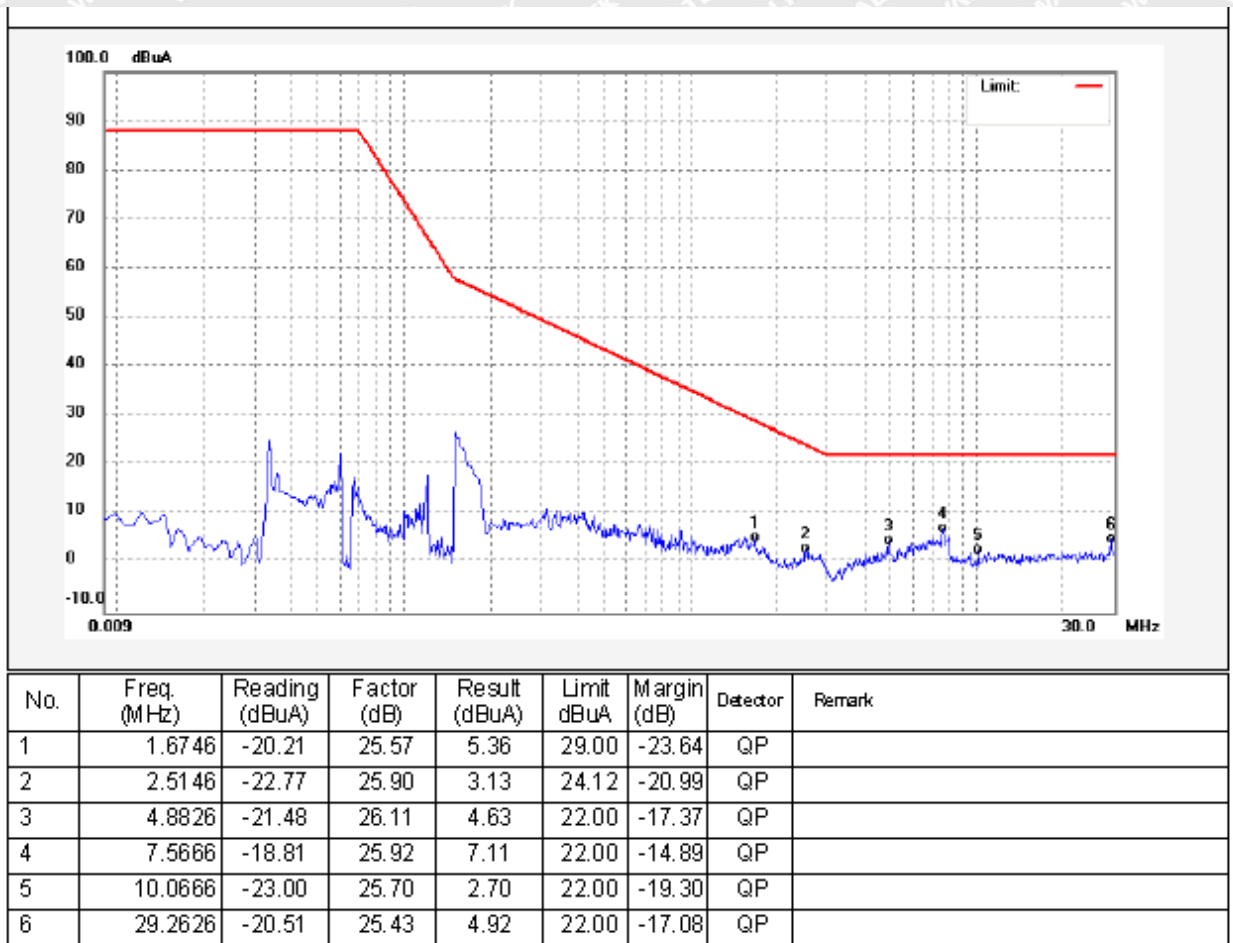
Loop Y:



No.	Freq. (MHz)	Reading (dBuA)	Factor (dB)	Result (dBuA)	Limit dBuA	Margin (dB)	Detector	Remark
1	1.4146	-18.93	25.39	6.46	31.03	-24.57	QP	
2	2.5666	-20.90	25.91	5.01	23.87	-18.86	QP	
3	5.9466	-16.77	26.01	9.24	22.00	-12.76	QP	
4	7.9746	-19.15	25.90	6.75	22.00	-15.25	QP	
5	13.1266	-22.40	25.73	3.33	22.00	-18.67	QP	
6	27.7106	-22.64	25.49	2.85	22.00	-19.15	QP	

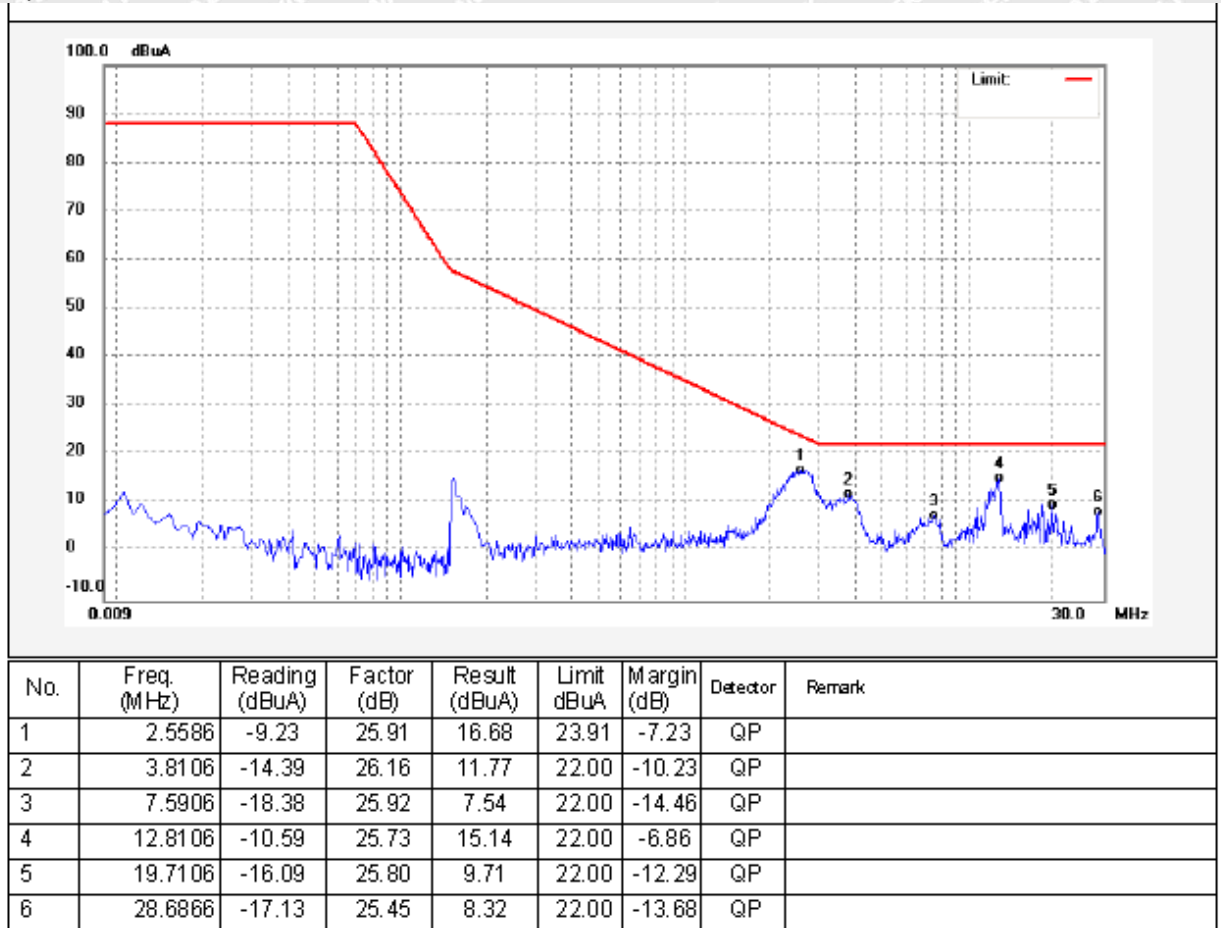


Loop Z:



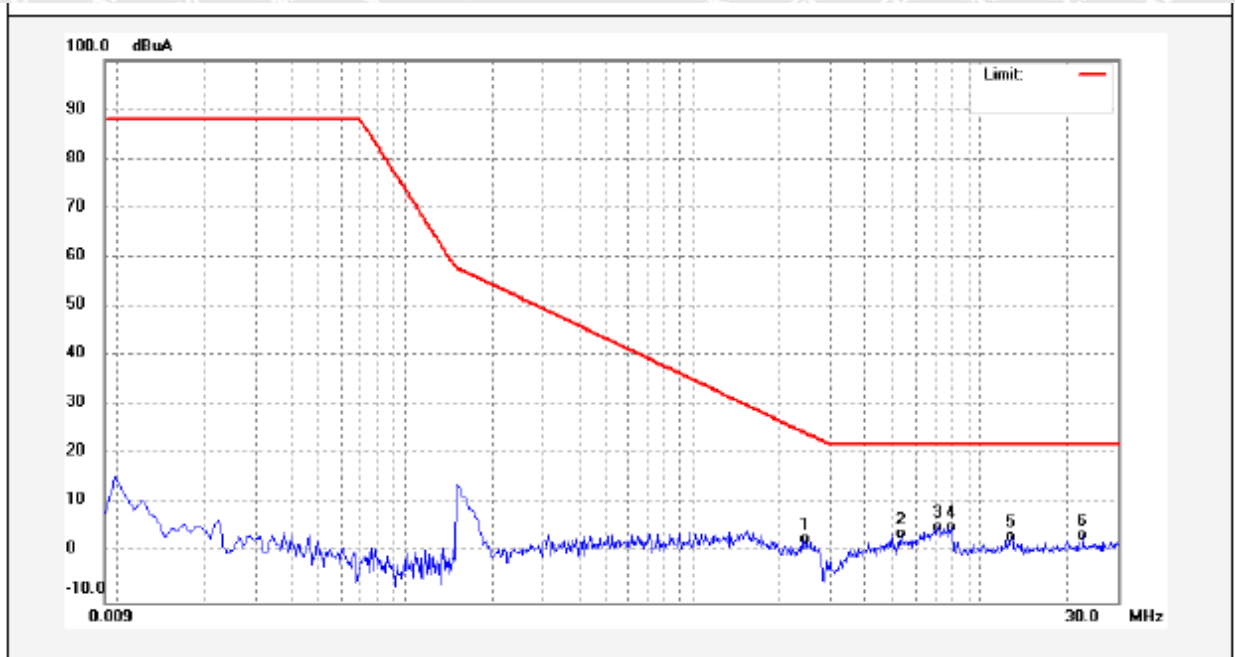
**Model: ERC304**

Loop X:





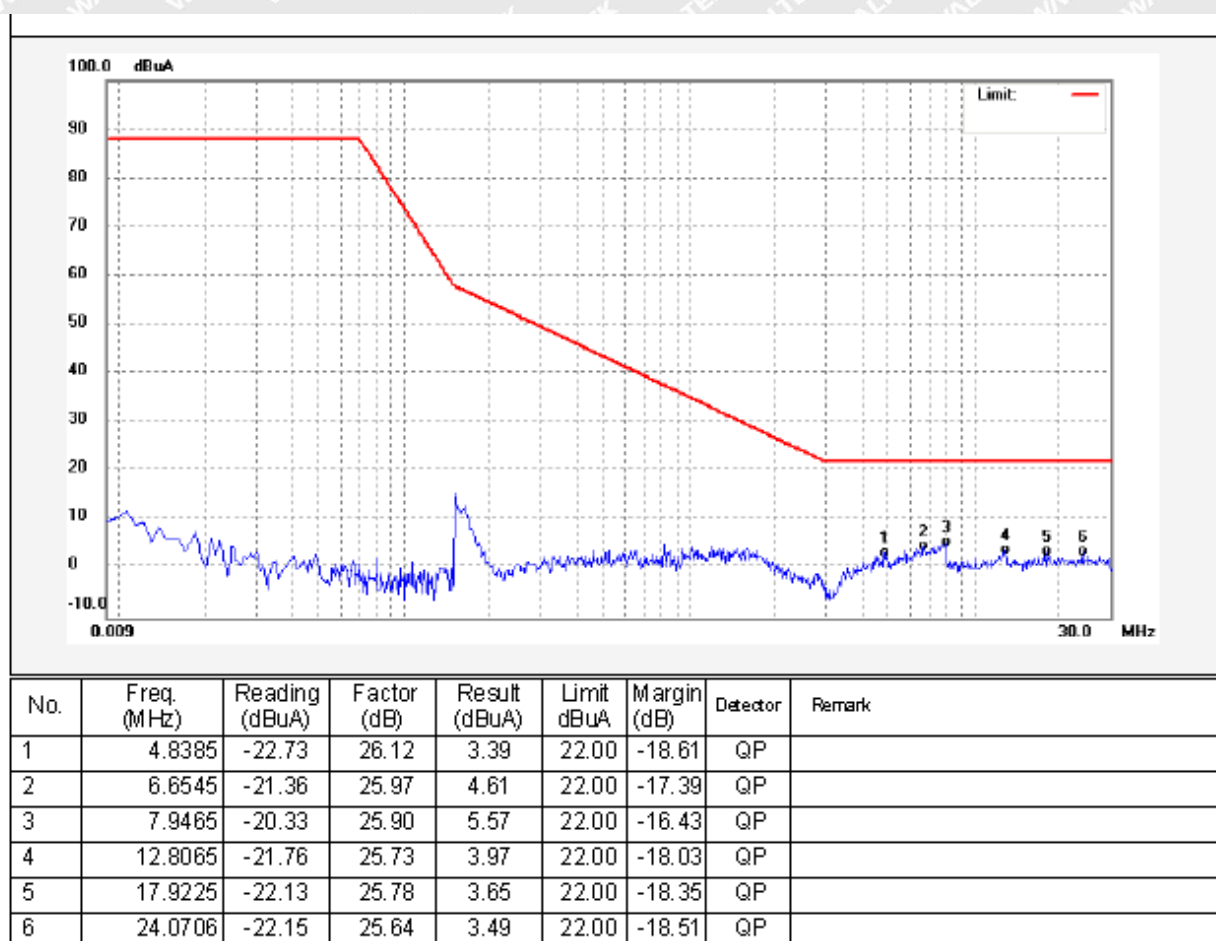
Loop Y:



No.	Freq. (MHz)	Reading (dBuA)	Factor (dB)	Result (dBuA)	Limit dBuA	Margin (dB)	Detector	Remark
1	2.4586	-23.21	25.89	2.68	24.39	-21.71	QP	
2	5.2946	-22.09	26.07	3.98	22.00	-18.02	QP	
3	7.1266	-20.58	25.94	5.36	22.00	-16.64	QP	
4	7.9306	-20.72	25.90	5.18	22.00	-16.82	QP	
5	12.7226	-22.48	25.73	3.25	22.00	-18.75	QP	
6	22.6426	-22.10	25.69	3.59	22.00	-18.41	QP	



Loop Z:



6.3 Radiation Emission, 30MHz to 1000MHz

Test Requirement.....	:	EN IEC 55015
Test Method.....	:	EN IEC 55015
Test Result	:	Pass
Frequency Range	:	30MHz to 1000MHz
Class/Severity.....	:	Table 10 (OATS or SAC at 3 m distance) of EN IEC 55015
Antenna polarisation.....	:	Horizontal & Vertical

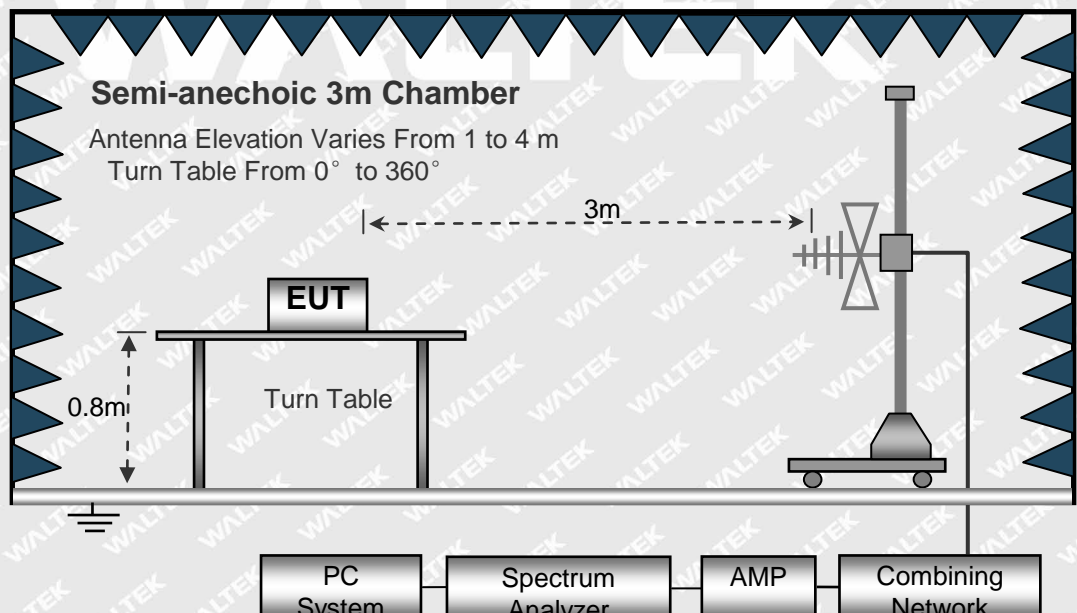
6.3.1 E.U.T. Operation

Operating Environment:

Temperature	:	25.8°C
Humidity.....	:	55.7%RH
Atmospheric Pressure	:	101.2kPa
EUT Operation.....	:	Refer to section 5.4.

6.3.2 Block Diagram of Setup

The Radiation Emission test was performed in accordance with EN IEC 55015



6.3.3 Measurement Data

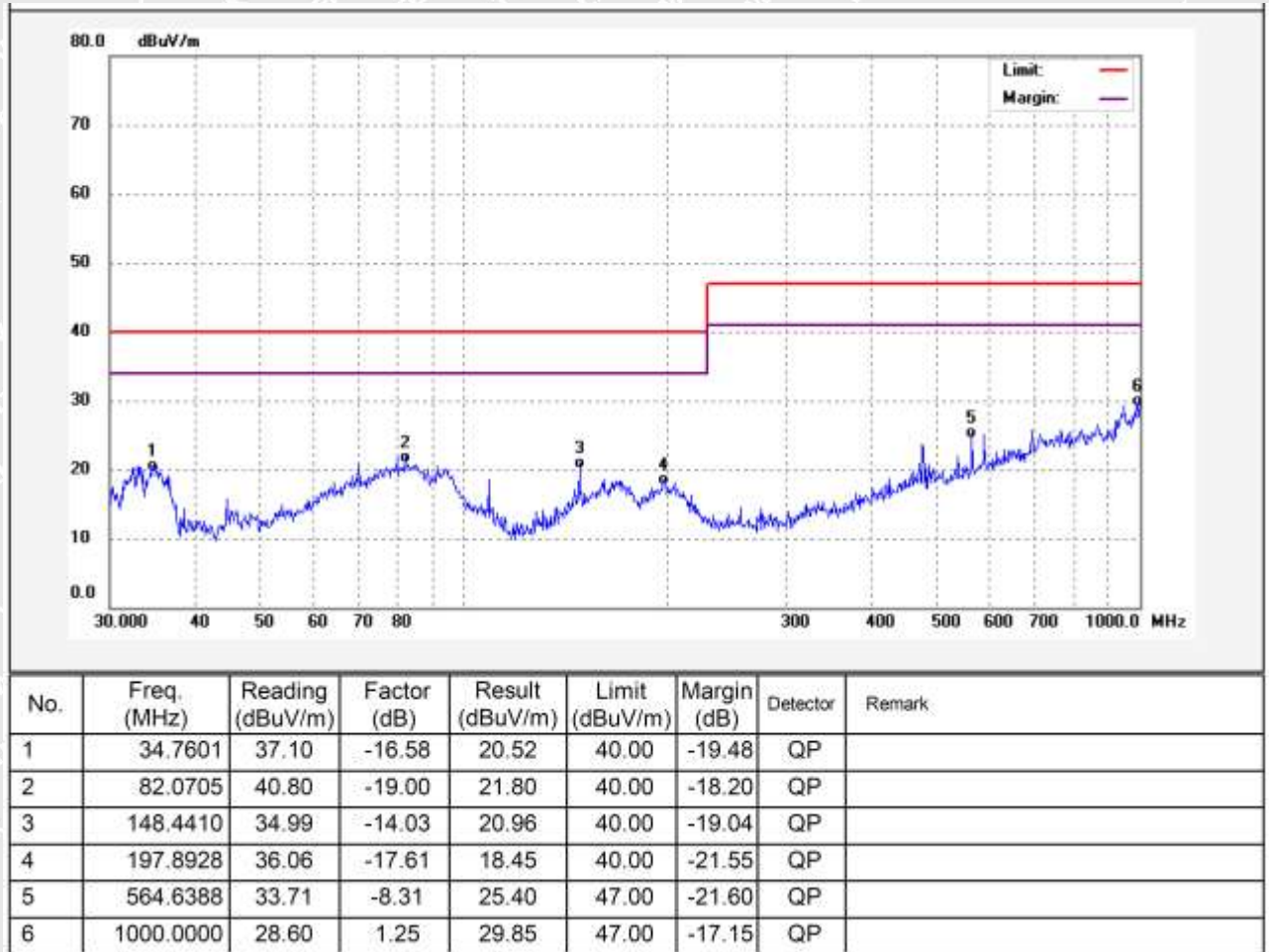
The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.



6.3.4 Radiation Emission Test Data, 30MHz to 1000MHz

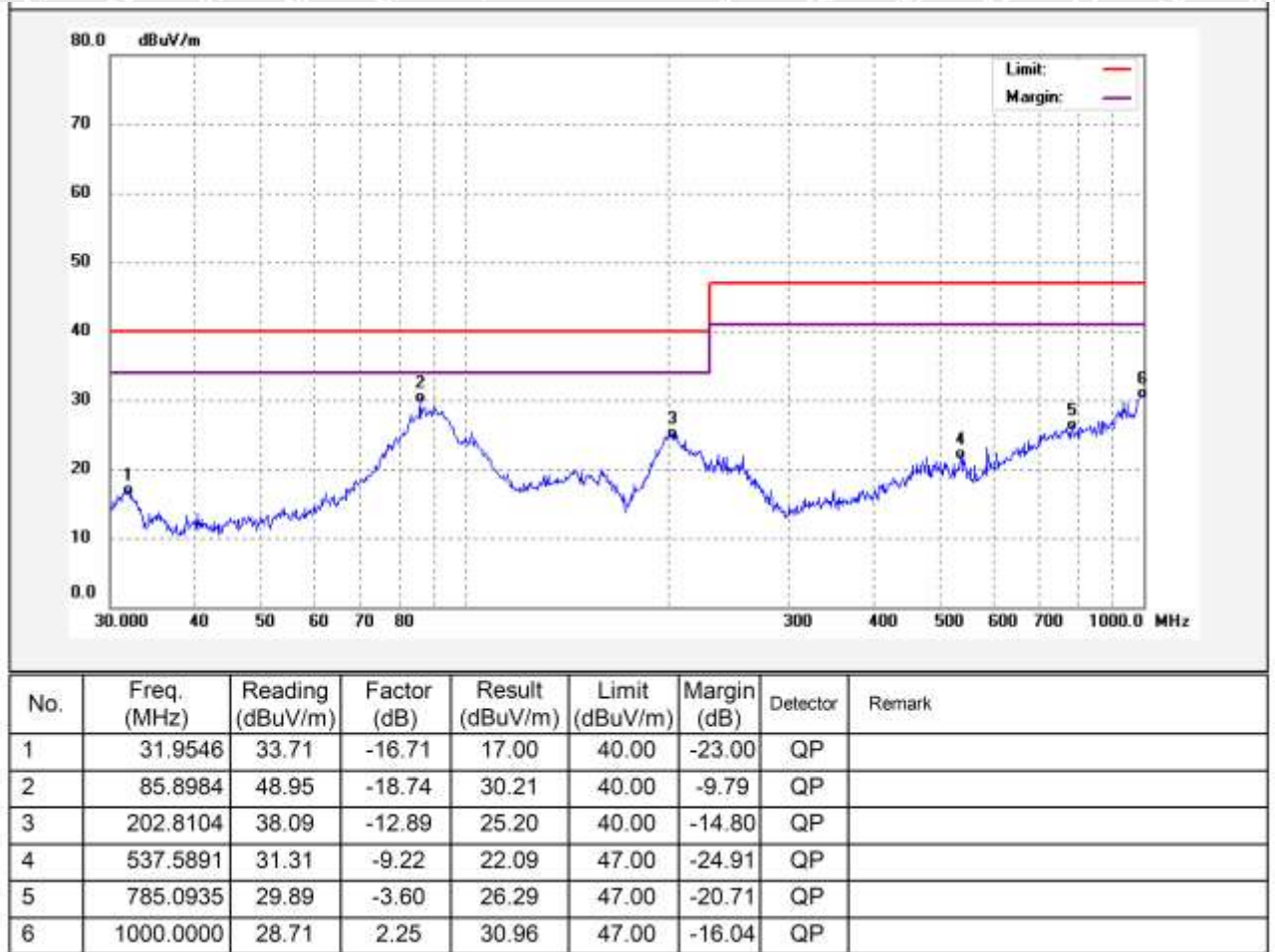
Model: ERC302

Antenna Polarization: Vertical





Antenna Polarization: Horizontal





6.4 Harmonics Current Emission

Test Requirement..... : EN IEC 61000-3-2

Test Method..... : EN 61000-4-7

Test Result : Pass

Class/Severity..... : Class C

6.4.1 E.U.T. Operation

Operating Environment:

Temperature..... : 25°C

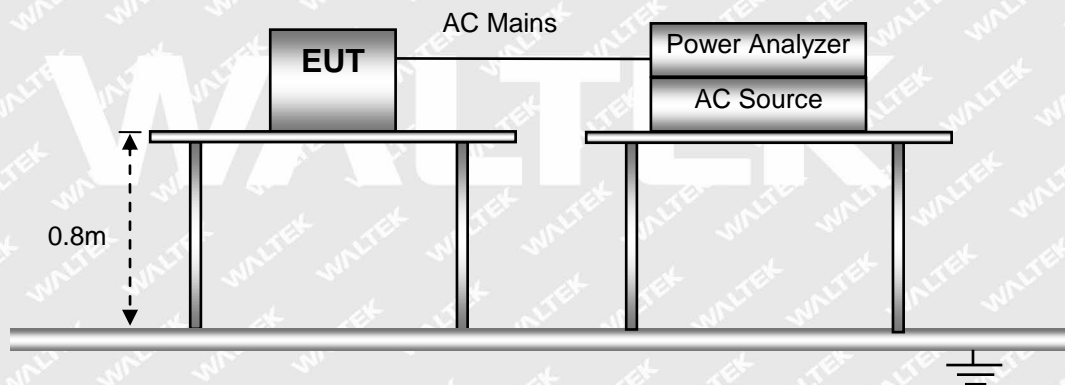
Humidity..... : 52.6%RH

Barometric Pressure..... : 101.4kPa

EUT Operation..... : Refer to section 5.4.

6.4.2 Block Diagram of Test Setup

The Harmonics Current emission test was performed in accordance with EN 61000-4-7.





6.4.3 Test Data

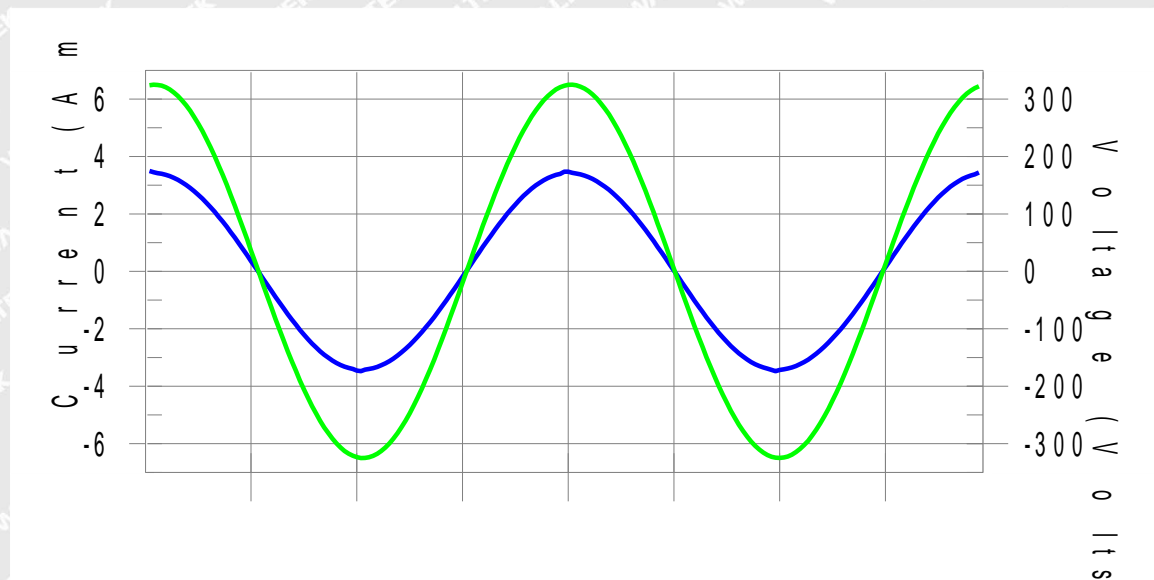
Model: ERC302

Harmonics – Class-C per Ed. 4.0 (2014)(Run time)

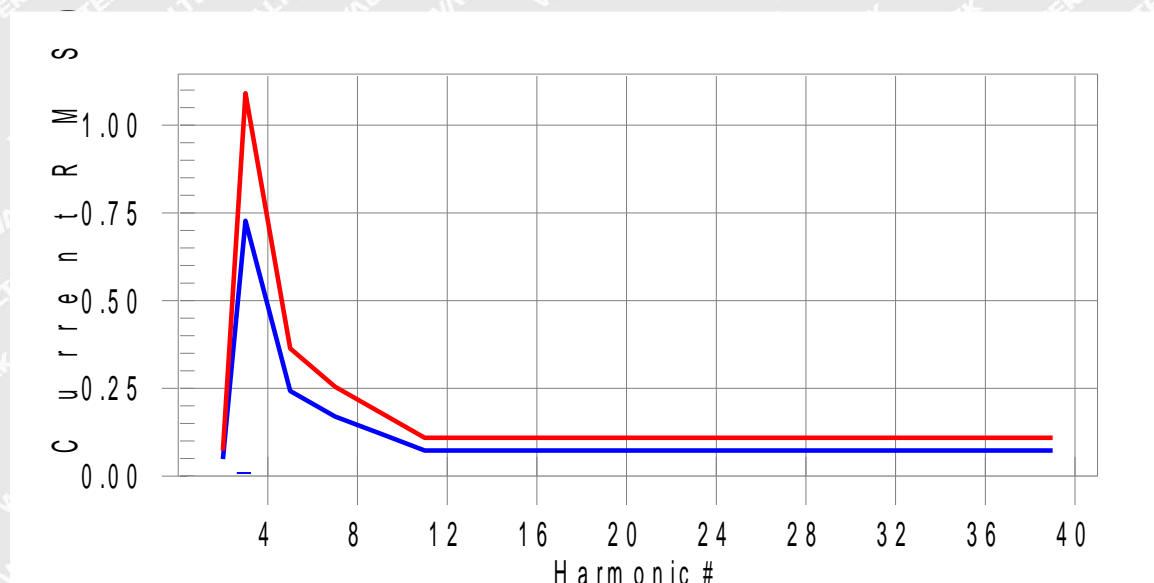
Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100
Test date: 2018/6/4 Start time: 18:34:38 End time: 18:37:19
Test duration (min): 2.5 Data file name: H-000465.cts_data

Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class C limit line European Limits



Test result: Pass Worst harmonics H0-0.0% of 150% limit, H0-0% of 100% limit



Current Test Result Summary (Run time)

Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2018/6/4 Start time: 18:34:38 End time: 18:37:19
 Test duration (min): 2.5 Data file name: H-000465.cts_data

Test Result: Pass Source qualification: Normal
 THC(A): 0.013 I-THD(%): 0.5 POHC(A): 0.004 POHC Limit(A): 0.230

Highest parameter values during test:

V_RMS (Volts): 229.95 Frequency(Hz): 50.00
 I_Peak (Amps): 3.504 I_RMS (Amps): 2.426
 I_Fund (Amps): 2.425 Crest Factor: 1.446
 Power (Watts): 557.5 Power Factor: 1.000

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	0.049	N/A	0.001	0.073	N/A	Pass
3	0.010	0.727	N/A	0.011	1.091	N/A	Pass
4	0.001	0.000	N/A	0.001	0.000	N/A	Pass
5	0.002	0.243	N/A	0.003	0.364	N/A	Pass
6	0.000	0.000	N/A	0.001	0.000	N/A	Pass
7	0.003	0.170	N/A	0.003	0.255	N/A	Pass
8	0.000	0.000	N/A	0.001	0.000	N/A	Pass
9	0.003	0.121	N/A	0.003	0.182	N/A	Pass
10	0.000	0.000	N/A	0.001	0.000	N/A	Pass
11	0.003	0.073	N/A	0.003	0.109	N/A	Pass
12	0.001	0.000	N/A	0.001	0.000	N/A	Pass
13	0.002	0.073	N/A	0.002	0.109	N/A	Pass
14	0.001	0.000	N/A	0.001	0.000	N/A	Pass
15	0.002	0.073	N/A	0.002	0.109	N/A	Pass
16	0.000	0.000	N/A	0.001	0.000	N/A	Pass
17	0.002	0.073	N/A	0.002	0.109	N/A	Pass
18	0.001	0.000	N/A	0.001	0.000	N/A	Pass
19	0.002	0.073	N/A	0.002	0.109	N/A	Pass
20	0.001	0.000	N/A	0.001	0.000	N/A	Pass
21	0.002	0.073	N/A	0.002	0.109	N/A	Pass
22	0.000	0.000	N/A	0.001	0.000	N/A	Pass
23	0.002	0.073	N/A	0.002	0.109	N/A	Pass
24	0.000	0.000	N/A	0.001	0.000	N/A	Pass
25	0.002	0.073	N/A	0.002	0.109	N/A	Pass
26	0.000	0.000	N/A	0.001	0.000	N/A	Pass
27	0.002	0.073	N/A	0.002	0.109	N/A	Pass
28	0.000	0.000	N/A	0.001	0.000	N/A	Pass
29	0.001	0.073	N/A	0.001	0.109	N/A	Pass
30	0.000	0.000	N/A	0.000	0.000	N/A	Pass
31	0.001	0.073	N/A	0.001	0.109	N/A	Pass
32	0.000	0.000	N/A	0.000	0.000	N/A	Pass
33	0.001	0.073	N/A	0.001	0.109	N/A	Pass
34	0.000	0.000	N/A	0.000	0.000	N/A	Pass
35	0.001	0.073	N/A	0.001	0.109	N/A	Pass
36	0.000	0.000	N/A	0.000	0.000	N/A	Pass
37	0.001	0.073	N/A	0.001	0.109	N/A	Pass
38	0.000	0.000	N/A	0.000	0.000	N/A	Pass
39	0.001	0.073	N/A	0.001	0.109	N/A	Pass
40	0.000	0.000	N/A	0.000	0.000	N/A	Pass

Note: Dynamic limits were applied for this test. The highest harmonics values in the above table may not occur at the same window as the maximum harmonics/limit ratio.



Voltage Source Verification Data (Run time)

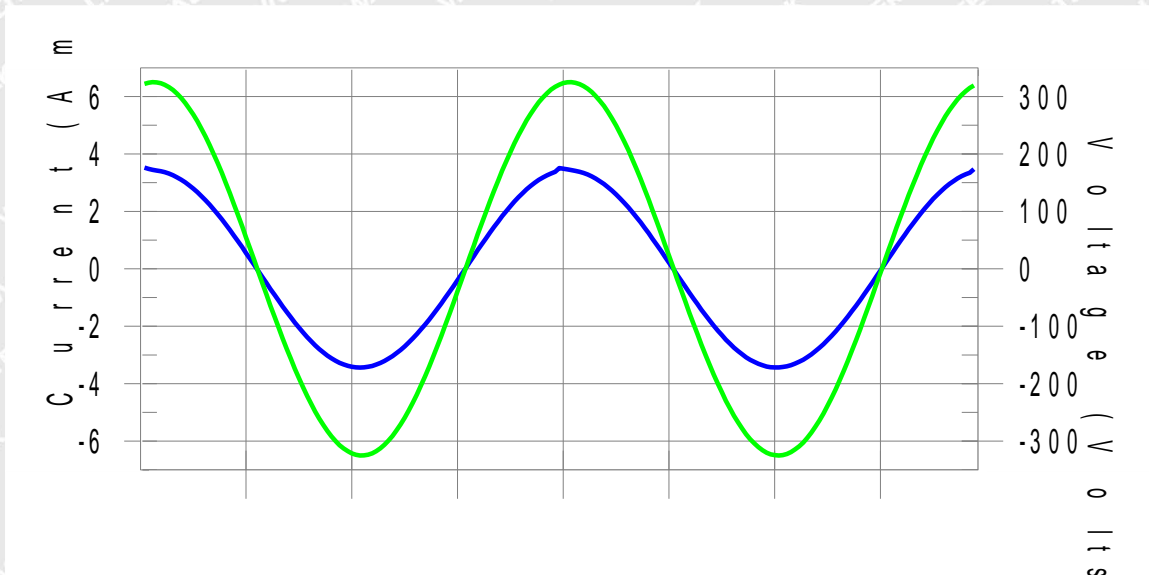
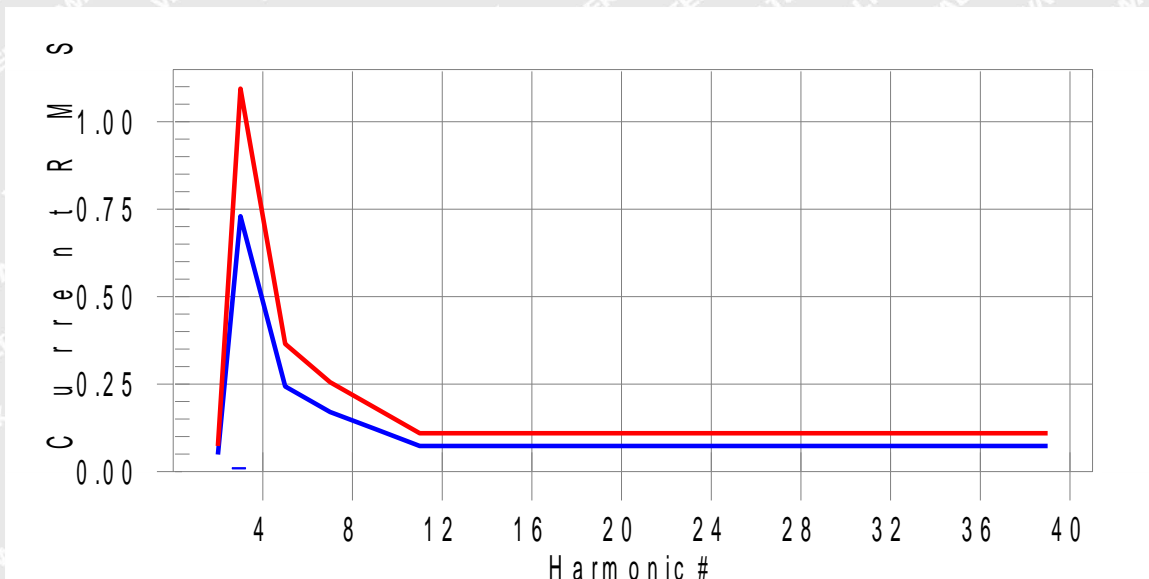
Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2018/6/4 Start time: 18:34:38 End time: 18:37:19
 Test duration (min): 2.5 Data file name: H-000465.cts_data

Test Result: Pass Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms):	229.95	Frequency(Hz):	50.00
I_Peak (Amps):	3.504	I_RMS (Amps):	2.426
I_Fund (Amps):	2.425	Crest Factor:	1.446
Power (Watts):	557.5	Power Factor:	1.000

Harm#	Harmonics V-rms		Limit V-rms% of Limit Status	
2	0.066	0.460	14.40	OK
3	0.464	2.069	22.43	OK
4	0.061	0.460	13.36	OK
5	0.040	0.920	4.31	OK
6	0.028	0.460	6.10	OK
7	0.030	0.690	4.39	OK
8	0.009	0.460	1.96	OK
9	0.030	0.460	6.52	OK
10	0.008	0.460	1.79	OK
11	0.009	0.230	3.81	OK
12	0.012	0.230	5.12	OK
13	0.007	0.230	3.18	OK
14	0.007	0.230	2.92	OK
15	0.009	0.230	3.71	OK
16	0.009	0.230	3.88	OK
17	0.005	0.230	2.34	OK
18	0.010	0.230	4.34	OK
19	0.010	0.230	4.47	OK
20	0.018	0.230	7.89	OK
21	0.010	0.230	4.38	OK
22	0.003	0.230	1.12	OK
23	0.003	0.230	1.48	OK
24	0.003	0.230	1.42	OK
25	0.005	0.230	2.04	OK
26	0.004	0.230	1.64	OK
27	0.004	0.230	1.73	OK
28	0.002	0.230	0.96	OK
29	0.006	0.230	2.78	OK
30	0.002	0.230	0.88	OK
31	0.004	0.230	1.59	OK
32	0.003	0.230	1.17	OK
33	0.004	0.230	1.57	OK
34	0.002	0.230	0.88	OK
35	0.004	0.230	1.69	OK
36	0.002	0.230	0.73	OK
37	0.005	0.230	2.27	OK
38	0.003	0.230	1.13	OK
39	0.006	0.230	2.58	OK
40	0.011	0.230	4.64	OK

**Model: ERC303****Harmonics – Class-C per Ed. 4.0 (2014)(Run time)****Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100****Test date: 2018/6/4****Start time: 19:04:19****End time: 19:07:00****Test duration (min): 2.5****Data file name: H-000468.cts_data****Test Result: Pass****Source qualification: Normal****Current & voltage waveforms****Harmonics and Class C limit line European Limits****Test result: Pass Worst harmonics H0-0.0% of 150% limit, H0-0% of 100% limit**



Current Test Result Summary (Run time)

Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2018/6/4 Start time: 19:04:19 End time: 19:07:00
 Test duration (min): 2.5 Data file name: H-000468.cts_data

Test Result: Pass Source qualification: Normal
 THC(A): 0.017 I-THD(%): 0.7 POHC(A): 0.004 POHC Limit(A): 0.231

Highest parameter values during test:

V_RMS (Volts): 229.97 Frequency(Hz): 50.00
 I_Peak (Amps): 3.540 I_RMS (Amps): 2.433
 I_Fund (Amps): 2.432 Crest Factor: 1.456
 Power (Watts): 559.3 Power Factor: 1.000

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.004	0.049	N/A	0.004	0.073	N/A	Pass
3	0.011	0.730	N/A	0.012	1.094	N/A	Pass
4	0.003	0.000	N/A	0.004	0.000	N/A	Pass
5	0.003	0.243	N/A	0.003	0.365	N/A	Pass
6	0.004	0.000	N/A	0.004	0.000	N/A	Pass
7	0.003	0.170	N/A	0.003	0.255	N/A	Pass
8	0.003	0.000	N/A	0.003	0.000	N/A	Pass
9	0.003	0.122	N/A	0.003	0.182	N/A	Pass
10	0.003	0.000	N/A	0.003	0.000	N/A	Pass
11	0.003	0.073	N/A	0.003	0.109	N/A	Pass
12	0.003	0.000	N/A	0.003	0.000	N/A	Pass
13	0.003	0.073	N/A	0.003	0.109	N/A	Pass
14	0.003	0.000	N/A	0.003	0.000	N/A	Pass
15	0.003	0.073	N/A	0.003	0.109	N/A	Pass
16	0.002	0.000	N/A	0.002	0.000	N/A	Pass
17	0.002	0.073	N/A	0.002	0.109	N/A	Pass
18	0.002	0.000	N/A	0.002	0.000	N/A	Pass
19	0.002	0.073	N/A	0.002	0.109	N/A	Pass
20	0.002	0.000	N/A	0.002	0.000	N/A	Pass
21	0.002	0.073	N/A	0.002	0.109	N/A	Pass
22	0.002	0.000	N/A	0.002	0.000	N/A	Pass
23	0.002	0.073	N/A	0.002	0.109	N/A	Pass
24	0.002	0.000	N/A	0.002	0.000	N/A	Pass
25	0.001	0.073	N/A	0.001	0.109	N/A	Pass
26	0.001	0.000	N/A	0.001	0.000	N/A	Pass
27	0.001	0.073	N/A	0.001	0.109	N/A	Pass
28	0.001	0.000	N/A	0.001	0.000	N/A	Pass
29	0.001	0.073	N/A	0.001	0.109	N/A	Pass
30	0.001	0.000	N/A	0.001	0.000	N/A	Pass
31	0.001	0.073	N/A	0.001	0.109	N/A	Pass
32	0.001	0.000	N/A	0.001	0.000	N/A	Pass
33	0.001	0.073	N/A	0.001	0.109	N/A	Pass
34	0.001	0.000	N/A	0.001	0.000	N/A	Pass
35	0.001	0.073	N/A	0.001	0.109	N/A	Pass
36	0.001	0.000	N/A	0.001	0.000	N/A	Pass
37	0.001	0.073	N/A	0.001	0.109	N/A	Pass
38	0.001	0.000	N/A	0.001	0.000	N/A	Pass
39	0.001	0.073	N/A	0.001	0.109	N/A	Pass
40	0.001	0.000	N/A	0.001	0.000	N/A	Pass

Note: Dynamic limits were applied for this test. The highest harmonics values in the above table may not occur at the same window as the maximum harmonics/limit ratio.



Voltage Source Verification Data (Run time)

Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2018/6/4 Start time: 19:04:19 End time: 19:07:00
 Test duration (min): 2.5 Data file name: H-000468.cts_data

Test Result: Pass Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms):	229.97	Frequency(Hz):	50.00
I_Peak (Amps):	3.540	I_RMS (Amps):	2.433
I_Fund (Amps):	2.432	Crest Factor:	1.456
Power (Watts):	559.3	Power Factor:	1.000

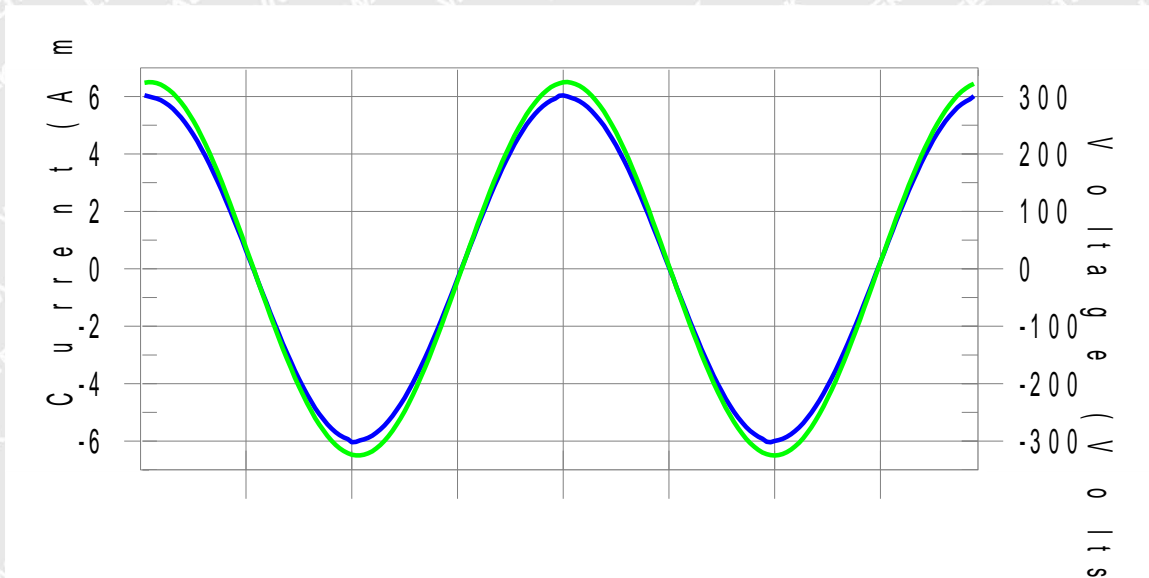
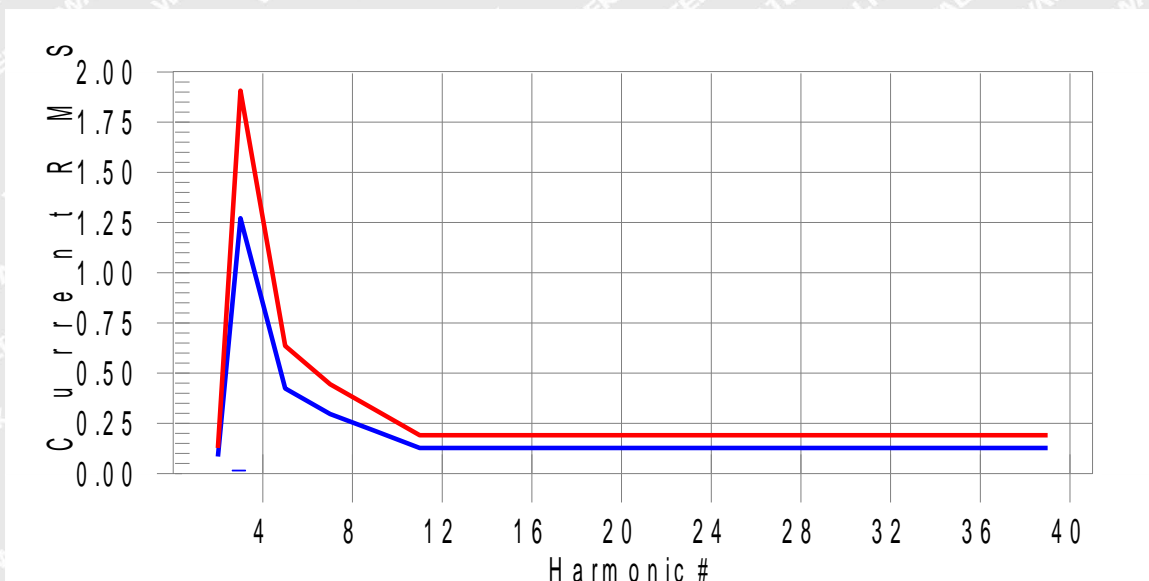
Harm# Harmonics V-rms Limit V-rms% of Limit Status

2	0.066	0.460	14.25	OK
3	0.468	2.069	22.60	OK
4	0.059	0.460	12.92	OK
5	0.045	0.920	4.93	OK
6	0.029	0.460	6.30	OK
7	0.031	0.690	4.51	OK
8	0.008	0.460	1.80	OK
9	0.032	0.460	6.88	OK
10	0.009	0.460	2.05	OK
11	0.009	0.230	3.86	OK
12	0.012	0.230	5.01	OK
13	0.006	0.230	2.72	OK
14	0.007	0.230	2.93	OK
15	0.008	0.230	3.52	OK
16	0.010	0.230	4.20	OK
17	0.005	0.230	2.12	OK
18	0.008	0.230	3.30	OK
19	0.010	0.230	4.47	OK
20	0.021	0.230	9.01	OK
21	0.010	0.230	4.29	OK
22	0.004	0.230	1.90	OK
23	0.003	0.230	1.21	OK
24	0.003	0.230	1.39	OK
25	0.004	0.230	1.86	OK
26	0.004	0.230	1.72	OK
27	0.006	0.230	2.82	OK
28	0.003	0.230	1.39	OK
29	0.004	0.230	1.83	OK
30	0.002	0.230	0.95	OK
31	0.002	0.230	0.95	OK
32	0.003	0.230	1.39	OK
33	0.002	0.230	0.95	OK
34	0.002	0.230	0.75	OK
35	0.002	0.230	0.90	OK
36	0.002	0.230	1.02	OK
37	0.003	0.230	1.23	OK
38	0.003	0.230	1.38	OK
39	0.005	0.230	2.29	OK
40	0.011	0.230	4.67	OK

**Model: ERC304****Harmonics – Class-C per Ed. 4.0 (2014)(Run time)**

Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100
Test date: 2018/6/4 Start time: 17:34:54 End time: 17:37:35
Test duration (min): 2.5 Data file name: H-000461.cts_data

Test Result: Pass Source qualification: Normal

Current & voltage waveforms**Harmonics and Class C limit line European Limits**

Test result: Pass Worst harmonics H0-0.0% of 150% limit, H0-0% of 100% limit

**Current Test Result Summary (Run time)**

Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100
Test date: 2018/6/4 Start time: 17:34:54 End time: 17:37:35
Test duration (min): 2.5 Data file name: H-000461.cts_data

Test Result: Pass Source qualification: Normal
THC(A): 0.020 I-THD(%): 0.5 POHC(A): 0.005 POHC Limit(A): 0.402

Highest parameter values during test:

V_RMS (Volts): 229.93 Frequency(Hz): 50.00
I_Peak (Amps): 6.080 I_RMS (Amps): 4.238
I_Fund (Amps): 4.238 Crest Factor: 1.436
Power (Watts): 974.3 Power Factor: 1.000

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	0.085	N/A 0.001	0.127	N/A	Pass	
3	0.017	1.271	N/A 0.018	1.907	N/A	Pass	
4	0.001	0.000	N/A 0.001	0.000	N/A	Pass	
5	0.003	0.424	N/A 0.004	0.636	N/A	Pass	
6	0.000	0.000	N/A 0.000	0.000	N/A	Pass	
7	0.004	0.297	N/A 0.004	0.445	N/A	Pass	
8	0.000	0.000	N/A 0.001	0.000	N/A	Pass	
9	0.004	0.212	N/A 0.004	0.318	N/A	Pass	
10	0.001	0.000	N/A 0.001	0.000	N/A	Pass	
11	0.003	0.127	N/A 0.004	0.191	N/A	Pass	
12	0.001	0.000	N/A 0.001	0.000	N/A	Pass	
13	0.003	0.127	N/A 0.003	0.191	N/A	Pass	
14	0.001	0.000	N/A 0.001	0.000	N/A	Pass	
15	0.003	0.127	N/A 0.003	0.191	N/A	Pass	
16	0.000	0.000	N/A 0.001	0.000	N/A	Pass	
17	0.003	0.127	N/A 0.003	0.191	N/A	Pass	
18	0.000	0.000	N/A 0.001	0.000	N/A	Pass	
19	0.003	0.127	N/A 0.003	0.191	N/A	Pass	
20	0.001	0.000	N/A 0.001	0.000	N/A	Pass	
21	0.002	0.127	N/A 0.003	0.191	N/A	Pass	
22	0.000	0.000	N/A 0.001	0.000	N/A	Pass	
23	0.002	0.127	N/A 0.002	0.191	N/A	Pass	
24	0.000	0.000	N/A 0.000	0.000	N/A	Pass	
25	0.002	0.127	N/A 0.002	0.191	N/A	Pass	
26	0.000	0.000	N/A 0.001	0.000	N/A	Pass	
27	0.002	0.127	N/A 0.002	0.191	N/A	Pass	
28	0.000	0.000	N/A 0.001	0.000	N/A	Pass	
29	0.002	0.127	N/A 0.002	0.191	N/A	Pass	
30	0.000	0.000	N/A 0.001	0.000	N/A	Pass	
31	0.001	0.127	N/A 0.002	0.191	N/A	Pass	
32	0.000	0.000	N/A 0.000	0.000	N/A	Pass	
33	0.001	0.127	N/A 0.001	0.191	N/A	Pass	
34	0.000	0.000	N/A 0.000	0.000	N/A	Pass	
35	0.001	0.127	N/A 0.001	0.191	N/A	Pass	
36	0.000	0.000	N/A 0.000	0.000	N/A	Pass	
37	0.001	0.127	N/A 0.001	0.191	N/A	Pass	
38	0.000	0.000	N/A 0.000	0.000	N/A	Pass	
39	0.001	0.127	N/A 0.001	0.191	N/A	Pass	
40	0.000	0.000	N/A 0.000	0.000	N/A	Pass	

Note: Dynamic limits were applied for this test. The highest harmonics values in the above table may not occur at the same window as the maximum harmonics/limit ratio.



Voltage Source Verification Data (Run time)

Test category: Class-C per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2018/6/4 Start time: 17:34:54 End time: 17:37:35
 Test duration (min): 2.5 Data file name: H-000461.cts_data

Test Result: Pass Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms):	229.93	Frequency(Hz):	50.00
I_Peak (Amps):	6.080	I_RMS (Amps):	4.238
I_Fund (Amps):	4.238	Crest Factor:	1.436
Power (Watts):	974.3	Power Factor:	1.000

Harm# Harmonics V-rms Limit V-rms% of Limit Status

2	0.067	0.460	14.58	OK
3	0.496	2.069	23.98	OK
4	0.053	0.460	11.61	OK
5	0.050	0.920	5.45	OK
6	0.031	0.460	6.85	OK
7	0.024	0.690	3.53	OK
8	0.009	0.460	2.05	OK
9	0.036	0.460	7.77	OK
10	0.010	0.460	2.26	OK
11	0.010	0.230	4.56	OK
12	0.013	0.230	5.67	OK
13	0.008	0.230	3.66	OK
14	0.006	0.230	2.40	OK
15	0.007	0.230	2.83	OK
16	0.010	0.230	4.48	OK
17	0.005	0.230	2.35	OK
18	0.008	0.230	3.49	OK
19	0.010	0.230	4.56	OK
20	0.020	0.230	8.54	OK
21	0.010	0.230	4.44	OK
22	0.003	0.230	1.32	OK
23	0.003	0.230	1.44	OK
24	0.004	0.230	1.79	OK
25	0.005	0.230	2.34	OK
26	0.003	0.230	1.25	OK
27	0.003	0.230	1.34	OK
28	0.003	0.230	1.42	OK
29	0.008	0.230	3.31	OK
30	0.002	0.230	1.02	OK
31	0.004	0.230	1.63	OK
32	0.002	0.230	0.84	OK
33	0.004	0.230	1.56	OK
34	0.002	0.230	1.03	OK
35	0.003	0.230	1.41	OK
36	0.002	0.230	0.74	OK
37	0.004	0.230	1.72	OK
38	0.002	0.230	0.81	OK
39	0.005	0.230	2.12	OK
40	0.011	0.230	4.74	OK



6.5 Voltage Fluctuation and Flicker

Test Requirement..... : EN 61000-3-3
Test Method : EN 61000-4-15
Test Result : Pass

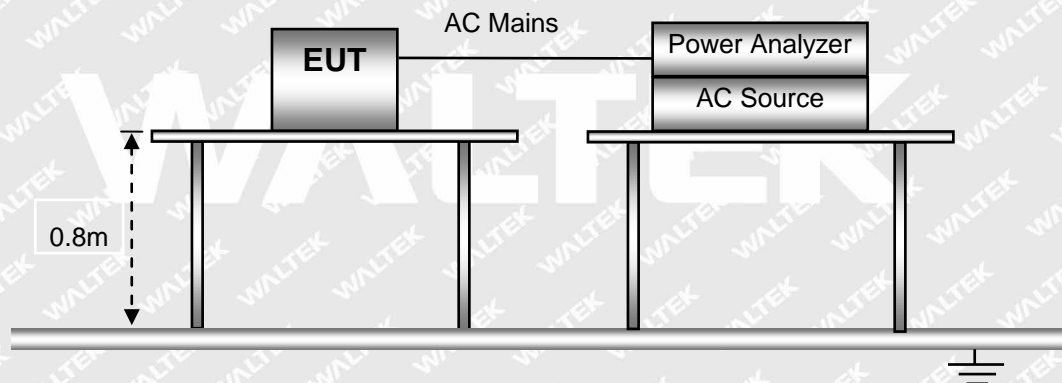
6.5.1 E.U.T. Operation

Operating Environment:

Temperature : 22.8°C
Humidity : 54.2%RH
Barometric Pressure..... : 101.1kPa
EUT Operation..... : Refer to section 5.4.

6.5.2 Block Diagram of Setup

The Voltage Fluctuation and Flicker test was performed in accordance with the EN 61000-4-15.





6.5.3 Voltage Fluctuation and Flicker Test Data

Model: ERC302

Flicker Test Summary per EN/IEC61000-3-3 Ed. 3.0 (2013) (Run time)

Test category: All parameters (European limits)

Test Margin: 100

Test date: 2018/6/4

Start time: 18:39:09

End time: 18:49:36

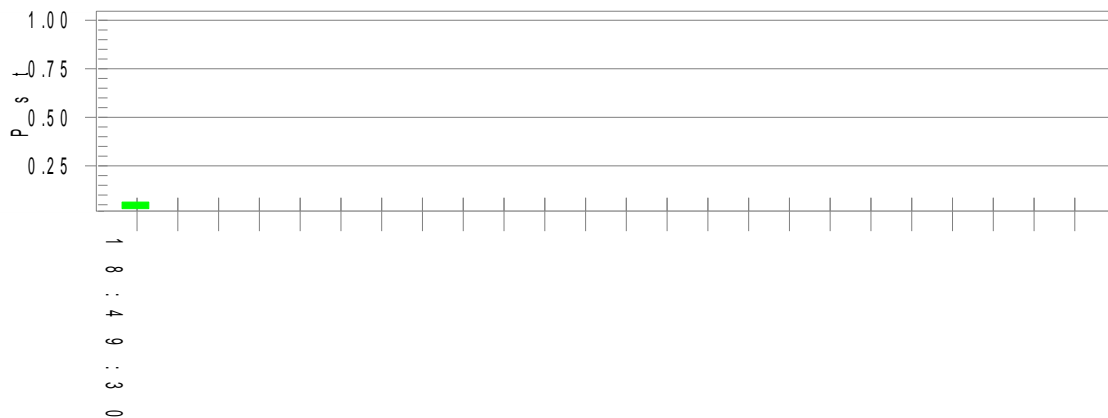
Test duration (min): 10

Data file name: F-000466.cts_data

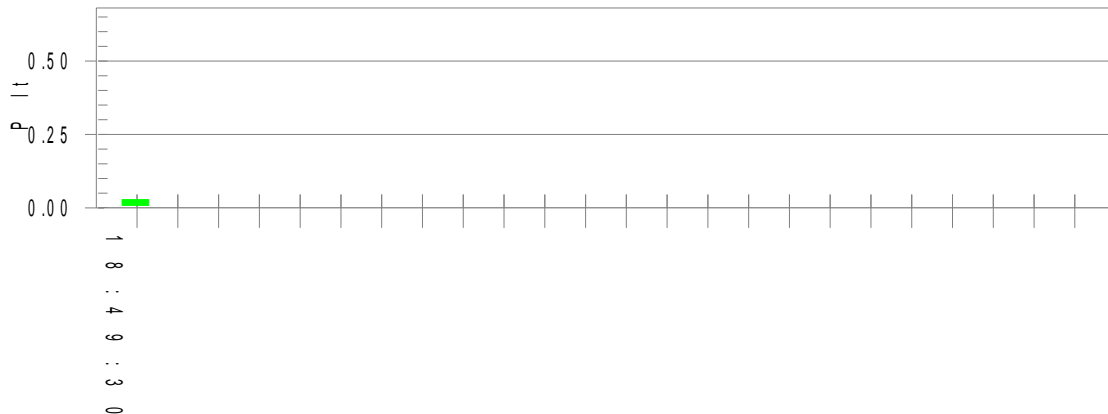
Test Result: Pass Status: Test Completed

Pst_i and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt): 228.90

T-max (mS): 0

Highest dc (%): 0.00

Highest dmax (%): 0.00

Highest Pst (10 min. period): 0.064

Highest Plt (2 hr. period): 0.028

Test limit (mS): 500.0

Pass

Test limit (%): 3.30

Pass

Test limit (%): 4.00

Pass

Test limit: 1.000

Pass

Test limit: 0.650

Pass



7 Immunity Test Results

7.1 Performance Criteria

Performance criterion A: During the test, no change of the luminous intensity shall be observed and the regulating control, if any, shall operate during the test as intended.

Performance criterion B: During the test, the luminous intensity may change to any value. After the test, the luminous intensity shall be restored to its initial value within 1 min. Regulating controls need not function during the test, but after the test, the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.

Performance criterion C: During and after the test, any change of the luminous intensity is allowed and the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal, if necessary by temporary interruption of the mains supply and/or operating the regulating control. For further details, please refer to EN 61547.

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7.2 Electrostatic Discharge (ESD)

Test Requirement.....	:	EN 61547
Test Method.....	:	IEC 61000-4-2
Test Result	:	Pass
Discharge Impedance.....	:	330Ω / 150pF
Discharge Voltage	:	Air Discharge: ±8kV Contact Discharge: ±4kV HCP & VCP: ±4kV
Polarity.....	:	Positive & Negative
Number of Discharge.....	:	Minimum 10 times at each test point
Discharge Mode	:	Single Discharge
Discharge Period	:	1 second minimum

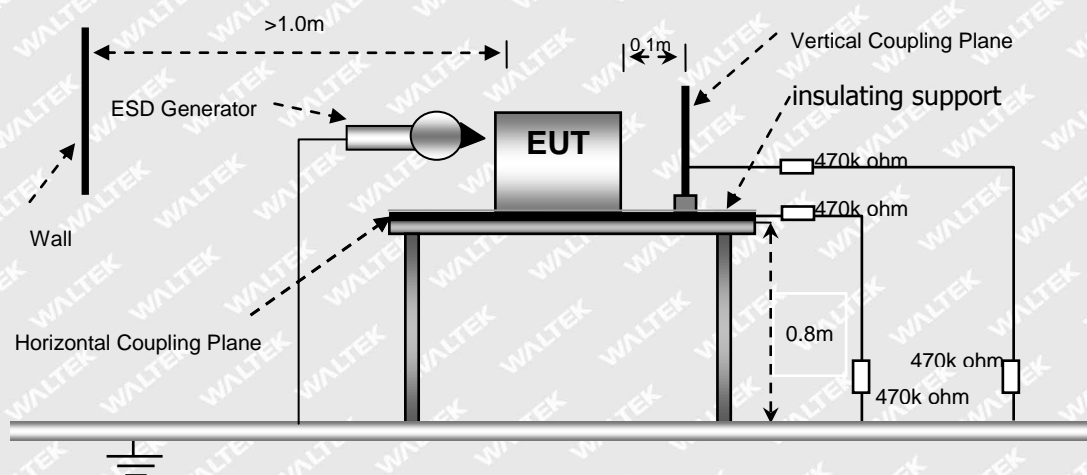
7.2.1 E.U.T. Operation

Operating Environment:

Temperature	:	22.8°C
Humidity	:	54.7%RH
Barometric Pressure	:	100.8kPa
EUT Operation.....	:	Refer to section 5.4.

7.2.2 Block Diagram of Setup

The ESD test was performed in accordance with the IEC 61000-4-2.





7.2.3 Direct Discharge Test Results

Observations:

Test points:

1. All Exposed Surface & Seams;
2. All metallic part

Direct Discharge			Test Results	
Applied Voltage (kV)	Performance Criterion	Test Point	Contact Discharge	Air Discharge
±8	B	1	N/A	Pass
±4	B	2	Pass	N/A

7.2.4 Indirect Discharge Test Results

Observations:

Test points: 1. All sides.

Indirect Discharge			Test Results	
Applied Voltage (kV)	Performance Criterion	Test Point	Horizontal Coupling	Vertical Coupling
±4	B	1	Pass	Pass

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7.3 Radio-frequency electromagnetic fields, 80MHz to 1GHz

Test Requirement.....	: EN 61547
Test Method.....	: IEC 61000-4-3
Test Result	: Pass
Frequency Range	: 80MHz to 1GHz
Test level	: 3V/m
Modulation	: 80%, 1kHz Amplitude Modulation.
Face of EUT	: Front, Back, Left, Right
Antenna polarisation.....	: Horizontal& Vertical

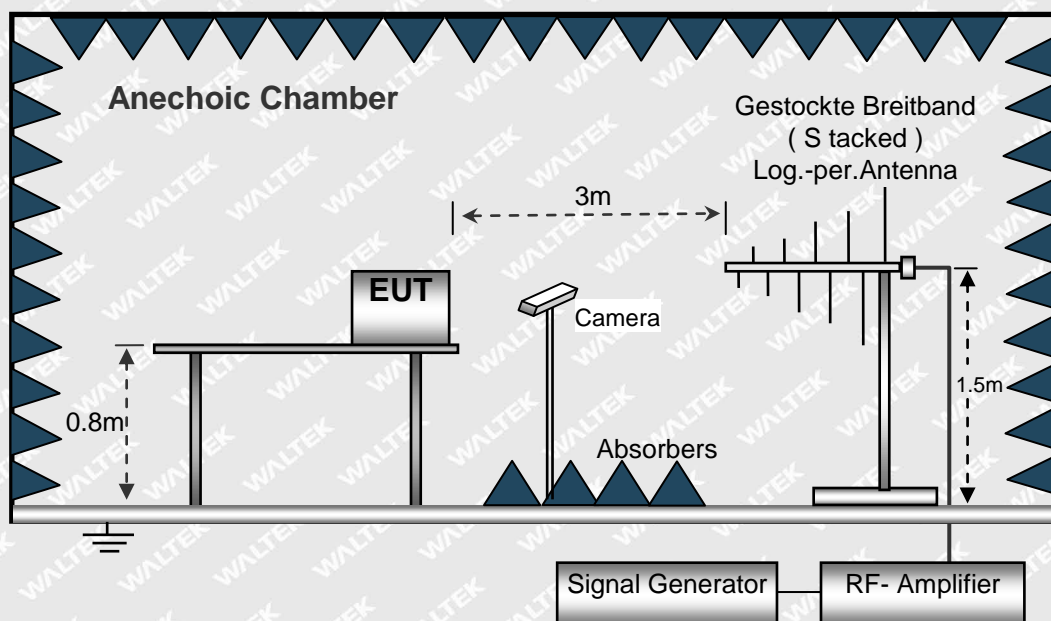
7.3.1 E.U.T. Operation

Operating Environment:

Temperature	: 21.7°C
Humidity	: 52.4% RH
Barometric Pressure	: 102.4kPa
EUT Operation	: Refer to section 5.4.

7.3.2 Block Diagram of Setup

The Radio-frequency electromagnetic fields Immunity test was performed in accordance with the IEC 61000-4-3.





7.3.3 Test Results

Frequency	Face of EUT	Antenna polarisation	Test Level	Step Size	Dwell Time	Performance Criterion	Result
80 to 1000MHz	Front, Back, Left, Right	Horizontal	3V/m	1%	1s	A	Pass
80 to 1000MHz	Front, Back, Left, Right	Vertical	3V/m	1%	1s	A	Pass

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7.4 Electrical Fast Transients (EFT)

Test Requirement.....	: EN 61547
Test Method.....	: IEC 61000-4-4
Test Result	: Pass
Polarity.....	: Positive & Negative
Repetition Frequency.....	: 5kHz
Burst Duration.....	: 300ms
Test Duration	: 2 minutes per level & polarity

7.4.1 E.U.T. Operation

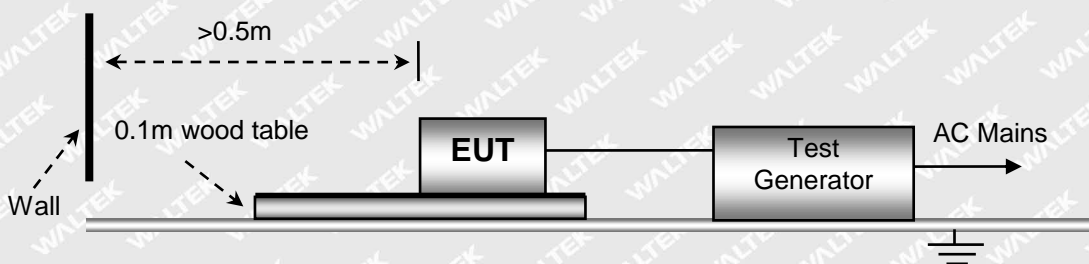
Operating Environment:

Temperature	: 21.9°C
Humidity	: 53.5%RH
Barometric Pressure	: 102.3kPa
EUT Operation.....	: Refer to section 5.4.

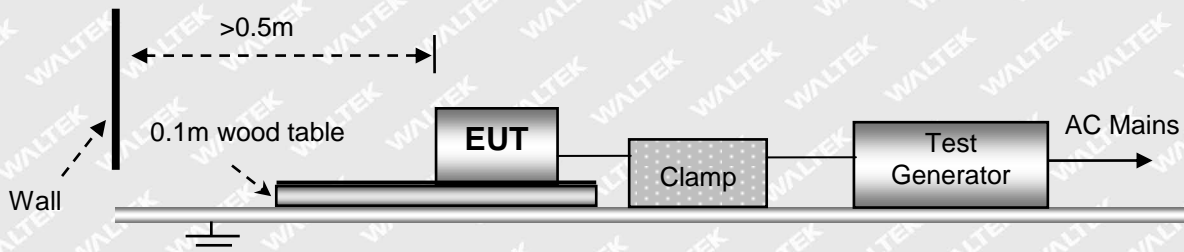
7.4.2 Block Diagram of Setup

The Electrical Fast Transients Immunity test was performed in accordance with IEC 61000-4-4.

For AC Mains or DC Ports:



For Signal and Control Ports:





7.4.3 Test Results

Test Ports	Test Level(kV)	Performance Criterion	Result
AC Mains	± 1.0	B	PASS
Signal	± 0.5	B	N/A ^a
DC Ports	± 0.5	B	N/A

Remark:

- a Applicable only to cables which according to the manufacturer's specification supports communication on cable lengths greater than 3 m.

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7.5 Surges

Test Requirement.....	:	EN 61547
Test Method.....	:	IEC 61000-4-5
Test Result	:	Pass
Interval.....	:	60s between each surge
No. of surges	:	5 positive at 90°, 5 negative at 270°.

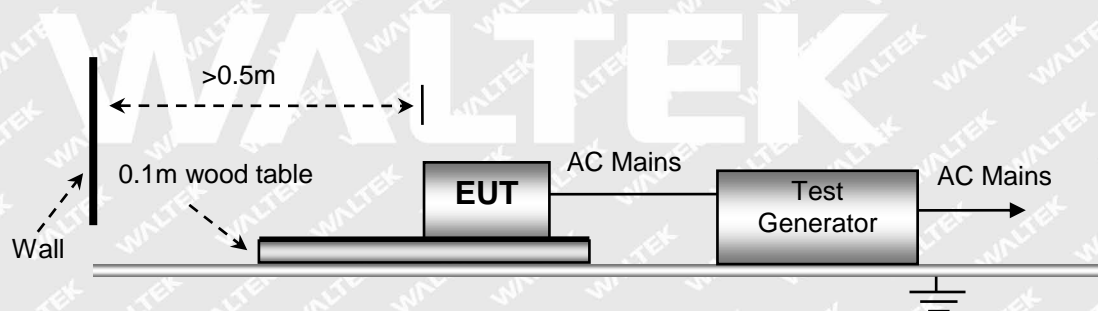
7.5.1 E.U.T. Operation

Operating Environment:

Temperature.....	:	22.5°C
Humidity.....	:	53.1%RH
Barometric Pressure	:	101.2kPa
EUT Operation	:	Refer to section 5.4.

7.5.2 Block Diagram of Setup

The Surge Immunity test was performed in accordance with the IEC 61000-4-5.



7.5.3 Test Results

Test Port	Applied Voltage (kV)	Performance criterion	Result
AC Mains (Between Live And Neutral)	± 1	C	PASS
AC Mains (Between Live And Earth)	± 2	C	N/A
AC Mains (Between Neutral And Earth)	± 2	C	N/A



7.6 Injected Currents Immunity 0.15MHz to 80MHz

Test Requirement.....	:	EN 61547
Test Method.....	:	IEC 61000-4-6
Test Result	:	Pass
Frequency Range	:	0.15MHz to 80MHz
Test level	:	3V r.m.s. (unmodulated emf into 150 Ω)
Modulation	:	80%, 1kHz Amplitude Modulation.

7.6.1 E.U.T. Operation

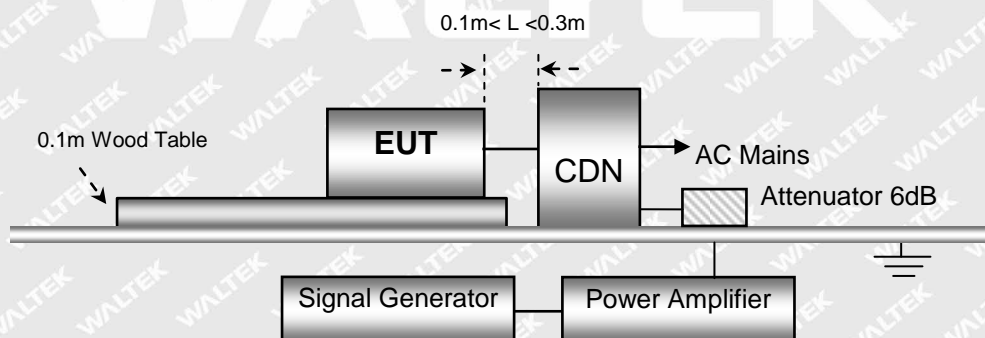
Operating Environment:

Temperature	:	23.4°C
Humidity	:	51.2% RH
Barometric Pressure.....	:	103.2kPa
EUT Operation.....	:	Refer to section 5.4.

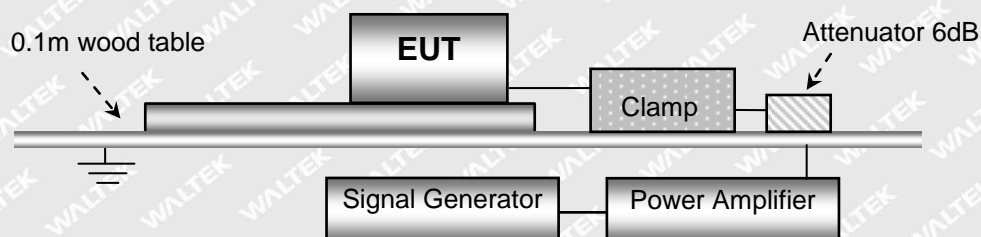
7.6.2 Block Diagram of Setup

The Injected Currents Immunity test was performed in accordance with IEC 61000-4-6.

For AC Mains or DC Port:



For Signal or Control Ports:





7.6.3 Test Results

Line	Test Level	Modulation	Step Size	Dwell Time	Criterion Required	Observations
AC mains	3Vrms	80%, 1kHz Amp. Mod.	1%	1s	A	A
DC Line	3Vrms	80%, 1kHz Amp. Mod.	1%	1s	A	N/A
Signal Line	3Vrms	80%, 1kHz Amp. Mod.	1%	1s	A	N/A ^a
Control Line	3Vrms	80%, 1kHz Amp. Mod.	1%	1s	A	N/A ^a

Remark:

- a Applicable only to cables which according to the manufacturer's specification supports communication on cable lengths greater than 3 m.

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7.7 Voltage Dips and Interruptions

Test Requirement..... : EN 61547
Test Method..... : IEC 61000-4-11
Test Result : Pass
Test Level(Voltage reduction)..... : 0%&70 % of U_T (Supply Voltage)
No. of Dips / Interruptions..... : 1 per Level at 20ms intervals

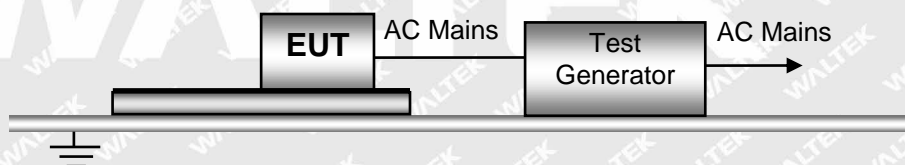
7.7.1 E.U.T. Operation

Operating Environment:

Temperature..... : 23.5°C
Humidity..... : 53.8%RH
Barometric Pressure..... : 102.4kPa
EUT Operation..... : Refer to section 5.4.

7.7.2 Block Diagram of Setup

The Voltage Dips and Interruptions Immunity test was performed in accordance with the IEC 61000-4-11.



7.7.3 Test Results

Test Level in % U_T	Phase	Performance criterion	Duration	Result
0	0°	B	0.5	Pass
	180°			Pass
70	0°	C	10	Pass
	180°			Pass



8 Photographs – Test Setup

8.1 Photograph – Conducted Disturbance at Mains Terminal Test Setup

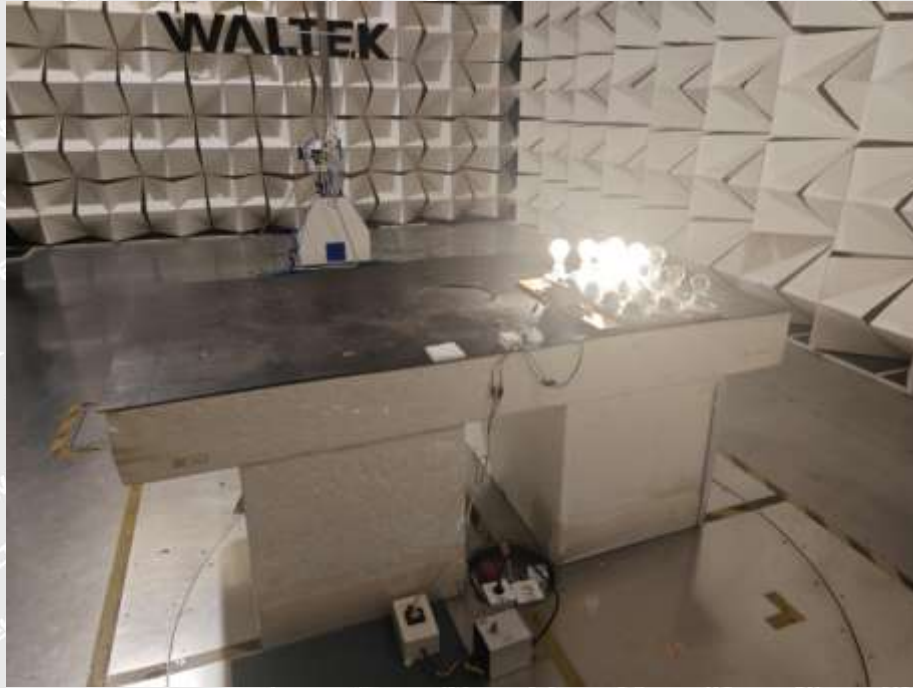


8.2 Photograph – Radiation electromagnetic disturbance Test Setup





8.3 Photograph – Radiation Emission Test Setup



8.4 Photograph – Harmonic Current & Voltage fluctuation and Flicker Test Setup





8.5 Photograph – ESD Immunity Test Setup



8.6 Photograph – Radio-frequency electromagnetic fields Immunity Test Setup





8.7 Photograph–EFT&Surges& Voltage Dips and Interruptions Immunity Test Setup



8.8 Photograph – Injected Currents Immunity Test Setup





9 Photographs – Constructional Details

Note: Please refer to appendix: Appendix-ERC302-Photos.

=====End of Report=====

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