TEST REPORT

Reference No.	:	WTX23X08182521R1E
Applicant	:	GlobTek, Inc.
Address	:	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	:	1.GlobTek, Inc. 2.GlobTek (Suzhou) Co., Ltd
Address	:	1.186 Veterans Dr. Northvale, NJ 07647 USA 2. Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China
Product Name	:	Power supply
Model No.	:	GT*9X1001P***** or 8016-000101
Standards	:	**EN 60601-1-2:2015+A1:2021**
Date of Receipt sample	:	2023-08-24; 2024-02-20
Date of Test	:	2023-08-24 to 2023-08-31; 2024-02-20 to 2024-04-10
Date of Issue	:	2024-04-10
Test Report Form No.	:	WTX_EN 60601_1_2_2015_B
Test Result	:	**Pass**

Remarks:
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 approver.

Prepared By:
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Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2023-09-01	Original report WTX23X08182521E.
Rev.01	2024-04-10	Refer to the Original WTX23X08182521E, Add the testing.

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Power supply
Trade Name:	GlobTek, Inc. ZOLL
Model No.:	GT*9X1001P***** or 8016-000101
Adding Model(s):	/

Note: The test data is gathered from a production sample, provided by the manufacturer.
*GT*9X1001P***** or 8016-000101*
The 1st "" part can be 'M' or '-' or 'H' for market identification and not related to safety;*
The 2nd "" can be "01" to "100", denotes the rated output wattage designation from 1W to 100W, which with interval of 1W;*
The 3rd "" can be "12" to "54" or "12.0" to "54.0", denote the standard rated output voltage designation from 12V to 54V, with interval of 0.1V;*
The 4th"" =-T2 means desktop class II with C8 AC inlet*
=-T2A means desktop class II with C18 AC inlet
=-T3 means desktop class I with C14 AC inlet
=-T3A means desktop class I with C6 AC inlet
=-TP means desktop class II with power supply cord
=-TP3 means desktop class I with power supply cord
The 5th "" is optional, when the 4th "*" is -TP or -TP3, it can be EU means power supply cord with EU plug, can be NA means power supply cord with USA plug, can be AU means power supply cord with Australian plug.*
*The last * denotes any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.*
The model 8016-000101 is identical with GTM9X1001P-6015-T2A.

Technical Characteristics of EUT	
Rated Voltage/ Current:	Input: 100-240V~,50-60Hz or 50/60Hz,1.5A; 115Vac, 400Hz, 1.5A Output: 12-54VDC, Max. 8.33A, Max.100W
Rated Power:	100W
Power Adaptor Model:	/
Highest Internal Frequency:	Below 108MHz
Classification of Equipment:	Class B

1.2 Test Standards

The tests were performed according to following standards:

EN 60601-1-2:2015+A1:2021: Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests.

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 IEC 60601-1-2 for Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard:Electromagnetic compatibility – Requirements and tests.

1.4 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	Working mode	Model: GTM9X1001P-10012-T2	AC 230V/50Hz
TM2	Working mode	Model: GTM9X1001P-10054-T3A	AC 230V/50Hz
TM3	Working mode	Model: GTM9X1001P-10024-T3	AC 230V/50Hz
TM4	Working mode	Model: GTM9X1001P-6015-T2A/ 8016-000101	AC 230V/50Hz
TM5	Working mode	Model: GTM9X1001P-10012-T2	AC 120V/60Hz
TM6	Working mode	Model: GTM9X1001P-10054-T3A	AC 120V/60Hz
TM7	Working mode	Model: GTM9X1001P-10024-T3	AC 120V/60Hz
TM8	Working mode	Model: GTM9X1001P-6015-T2A/ 8016-000101	AC 120V/60Hz
TM9	Working mode	No load (0W) GTM9X1001P-6015-T2A/ 8016-000101	AC 230V/50Hz
TM10	Working mode	No load (0W) GTM9X1001P-6015-T2A/ 8016-000101	AC 120V/60Hz

EUT Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
Model: GTM9X1001P-10012-T2 DC Cable	1.25	Shielded	Without	Without
Model: GTM9X1001P-10054-T3A DC Cable	1.55	Shielded	Without	Without
Model: GTM9X1001P-10024-T3 DC Cable	1.55	Shielded	Without	Without
Model: GTM9X1001P-6015-T2A/ 8016-000101 DC Cable	1.43	Unshielded	Without	Without

Special Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
AC Cable	1.0	Unshielded	Without	Without

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Load	/	/	/

1.5 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 manufacturer. No change in operating state or loss of 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.

1.6 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
☒Chamber A:Below 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2023-02-25	2024-02-24
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2023-02-25	2024-02-24
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2023-03-20	2026-03-19
Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
Amplifier	HP	8447F	2805A03475	2023-02-25	2024-02-24
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)	/	/
☐Chamber A:Above 1GHz					
Amplifier	C&D	PAP-1G18	2002	2023-02-25	2024-02-24
Horn Antenna	ETS	3117	00086197	2021-03-19	2024-03-18
☒Chamber B:Below 1GHz					
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2024-04-08
Amplifier	Agilent	8447D	2944A10457	2023-02-25	2024-02-24
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2023-02-25	2024-02-24
☐Chamber C:Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
Amplifier	HP	8447F	2944A03869	2023-02-25	2024-02-24
☐Chamber C:Above 1GHz					
Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
Amplifier	Tonscend	TAP01018050	AP22E806235	2023-02-25	2024-02-24
☒Conducted Room 1#					
EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2023-12-12	2024-12-11
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2023-02-25	2024-02-24
AC LISN	Schwarz beck	NSLK8126	8126-279	2023-02-25	2024-02-24
8-WIRE ISN	Schwarz beck	8158	CAT3-8158-0059	2023-02-25	2024-02-24
8-WIRE ISN	Schwarz beck	8158	CAT5-8158-0117	2023-02-25	2024-02-24
EMI Test Software (Conducted Emission Room 1#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3	/	/
☐Conducted Room 2#					
EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2023-02-25	2024-02-24
LISN	Rohde & Schwarz	ENV 216	100097	2023-02-25	2024-02-24
☐Harmonics &Flicker					

Digital Power Analyzer	California Instrument	CTS	72831	2023-02-25	2024-02-24
Power Source	California Instrument	5001IX-CTS-400	60077	2023-02-25	2024-02-24
☒Electrostatic discharges					
ESD Generator	LIONCEL	ESD-203B	0170901	2024-02-26	2025-02-25
☒Power-frequency magnetic field (PFMF)					
PMF Generator	LIONCEL	PMF-801C-C	0171101	2023-02-25	2024-02-24
PMF Antenna	LIONCEL	PMF-801C-A	0180302	2023-02-25	2024-02-24
Instantaneous PMF Generator Module	LIONCEL	PMF-801C-T	0171001	2023-02-25	2024-02-24
☒Electronic fast transient(EFT)/Surges/Dips					
Transient 2000	EMC PARTNER	TRA2000	836	2023-02-25	2024-02-24
Couple Clamp	EMC PARTNER	CN-EFT1000	513	2023-02-25	2024-02-24
☒Radio frequency, continuous conducted (C/S)					
CONDUCTED IMMUNITY TEST SYSTEM	FRANKONIA	CIT-10/75	126B1247/2013	2023-02-25	2024-02-24
Attenuator	EMTEST	MA-5100/6BF2	1009	2023-02-25	2024-02-24
CDN	Luthi	L-801M2/M3	2665	2023-02-25	2024-02-24
CDN	LIONCEL	CDN-T8	0210401	2023-02-25	2024-02-24
EM Clamp	TESEQ	KEMZ801A	45028	2023-02-25	2024-02-24
☒Radio frequency electromagnetic Field (R/S)					
Signal Generator	HP	8665B	3438A00604	2023-02-25	2024-02-24
Power Sensor	Agilent	E9301A	MY52450001	2023-02-25	2024-02-24
Power Sensor	Agilent	E9304A	MY55081055	2023-02-25	2024-02-24
RF Power Amplifier	MicoTop	MPA-80-1000-250	MPA1906239	2023-02-25	2024-02-24
RF Power Amplifier	MicoTop	MPA-1000-6000-100	MPA1906238	2023-02-25	2024-02-24
Antenna	SCHWARZBECK	STLP 9129	9129 114	/	/
Power Meter	Agilent	E4419B	GB42420578	2023-02-25	2024-02-24
Test Software (Radio frequency electromagnetic Field)	EMtrace	EM3	V1.2.6.2	/	/

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
EN 60601-1-2	Conducted Disturbance	Compliant
	Radiated Disturbance	Compliant
	Harmonic Current Emission IEC 61000-3-2	Compliant
	Voltage Fluctuation and Flicker IEC 61000-3-3	Compliant
	Electrostatic Discharge Immunity in accordance with IEC 61000-4-2	Compliant
	Continuous Radiated Disturbances Immunity in accordance with IEC 61000-4-3	Compliant
	Electrical Fast Transient/Burst Immunity in accordance With IEC 61000-4-4	Compliant
	Surges Immunity in accordance with IEC 61000-4-5	Compliant
	Continuous Conducted Disturbances Immunity in accordance with IEC 61000-4-6	Compliant
	Power-frequency Magnetic Fields Immunity in accordance with IEC 61000-4-8	Compliant
	Voltage Dips/Interruptions Immunity in accordance with IEC 61000-4-11	Compliant
	Proximity magnetic fields in accordance with IEC 61000-4-39	N/A (No magnetically sensitive components)

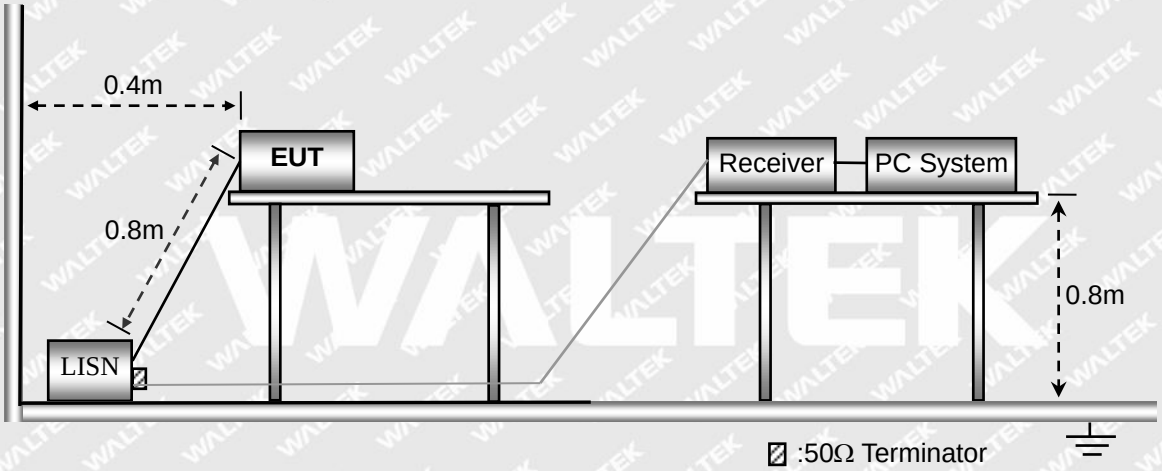
3. Conducted Emission

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 ±3.74dB
		0.15-30MHz ±3.34dB

3.2 Basic Test Setup Block Diagram



3.3 Environmental Conditions

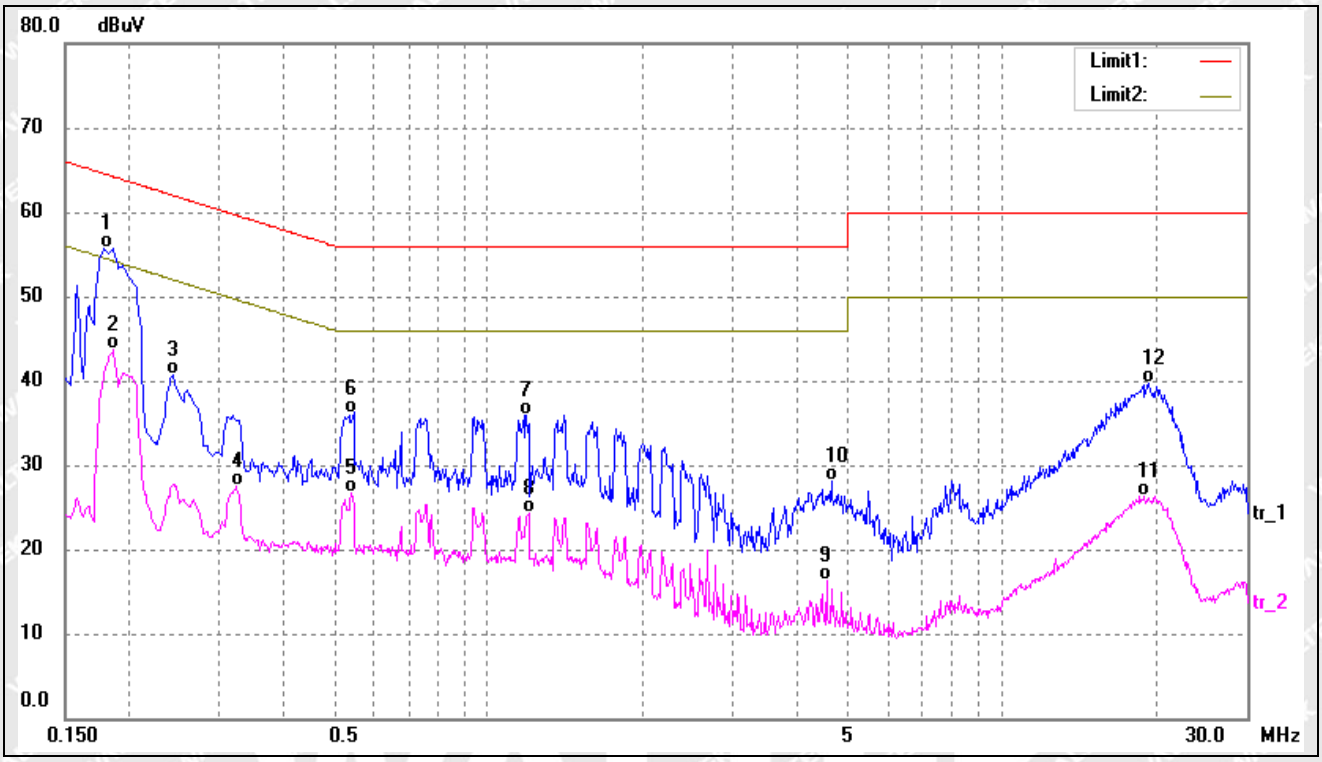
Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	998 mbar

3.4 Summary of Test Results

Please find the results below:

In the below plots, Limit1 = Class B Quasi Peak (QP); Limit 2 = Class B Average (AVG)

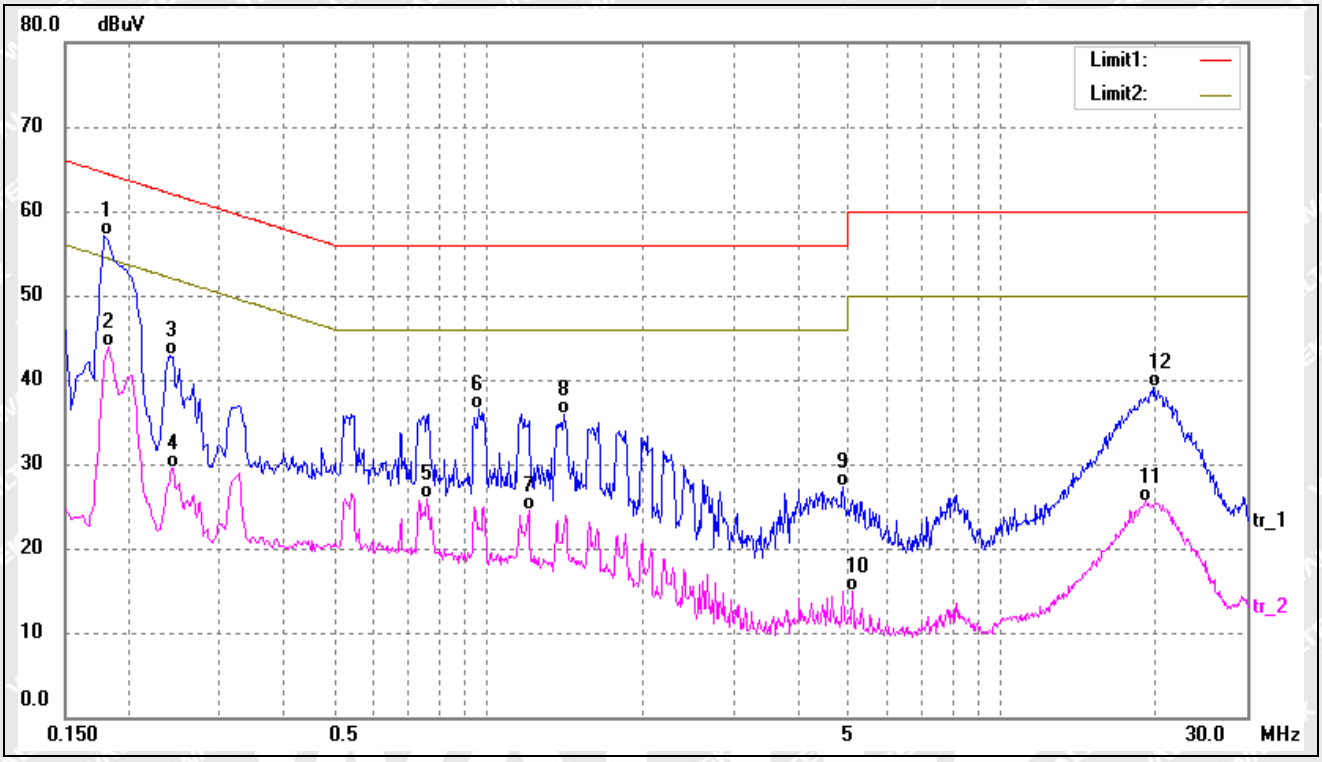
Test mode:	TM1	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1780	45.38	10.39	55.77	64.57	-8.80	QP
2	0.1860	33.36	10.40	43.76	54.21	-10.45	AVG
3	0.2420	30.29	10.35	40.64	62.02	-21.38	QP
4	0.3220	17.15	10.30	27.45	49.65	-22.20	AVG
5	0.5420	16.55	10.23	26.78	46.00	-19.22	AVG
6	0.5460	25.98	10.22	36.20	56.00	-19.80	QP
7	1.1740	25.80	10.18	35.98	56.00	-20.02	QP
8	1.1980	14.18	10.18	24.36	46.00	-21.64	AVG

9	4.5580	5.98	10.37	16.35	46.00	-29.65	AVG
10	4.6579	17.77	10.37	28.14	56.00	-27.86	QP
11	18.9580	15.89	10.35	26.24	50.00	-23.76	AVG
12	19.2979	29.30	10.36	39.66	60.00	-20.34	QP

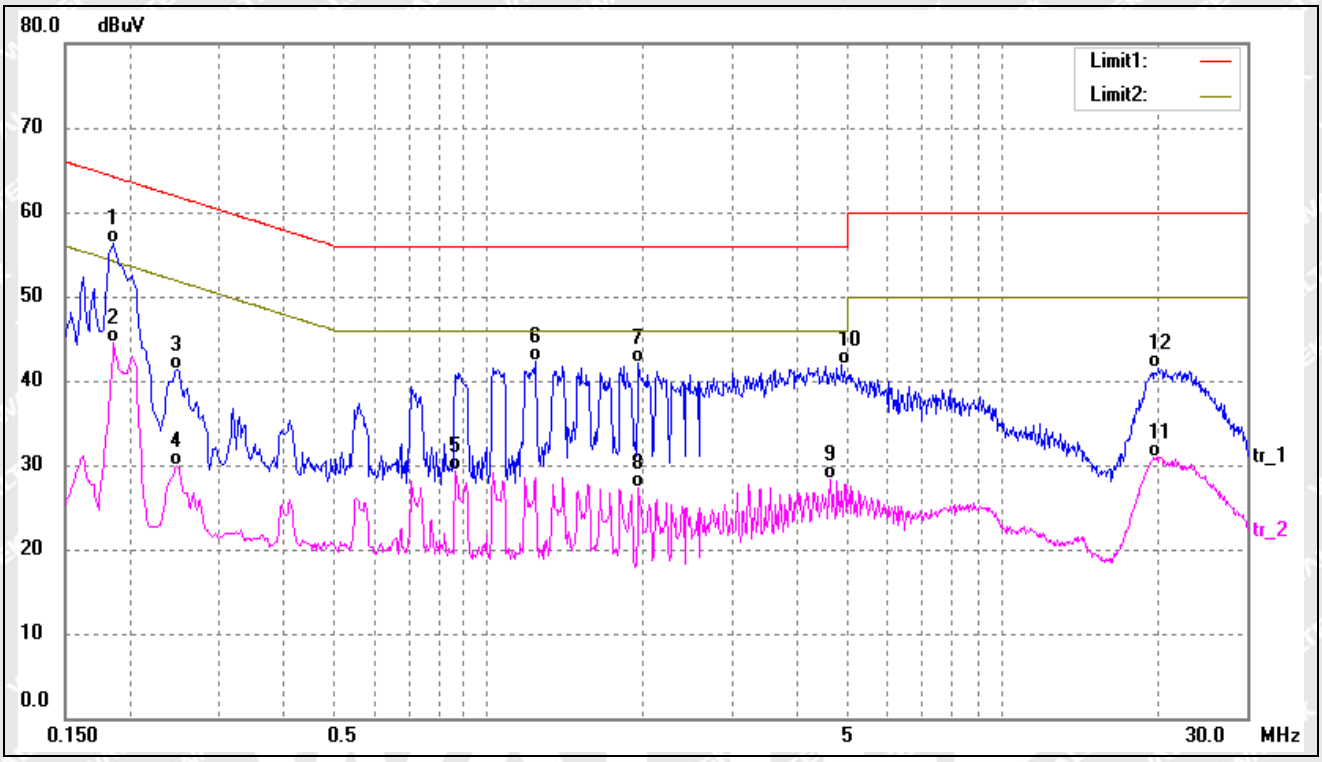
Test mode:	TM1	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1780	46.65	10.39	57.04	64.57	-7.53	QP
2	0.1819	33.52	10.39	43.91	54.39	-10.48	AVG
3	0.2380	32.50	10.35	42.85	62.16	-19.31	QP
4	0.2420	19.24	10.35	29.59	52.02	-22.43	AVG
5	0.7620	15.63	10.18	25.81	46.00	-20.19	AVG
6	0.9620	26.30	10.15	36.45	56.00	-19.55	QP
7	1.2020	14.26	10.18	24.44	46.00	-21.56	AVG
8	1.4100	25.69	10.22	35.91	56.00	-20.09	QP

9	4.9100	16.89	10.38	27.27	56.00	-28.73	QP
10	5.1260	4.52	10.38	14.90	50.00	-35.10	AVG
11	19.0540	15.25	10.35	25.60	50.00	-24.40	AVG
12	19.8060	28.65	10.38	39.03	60.00	-20.97	QP

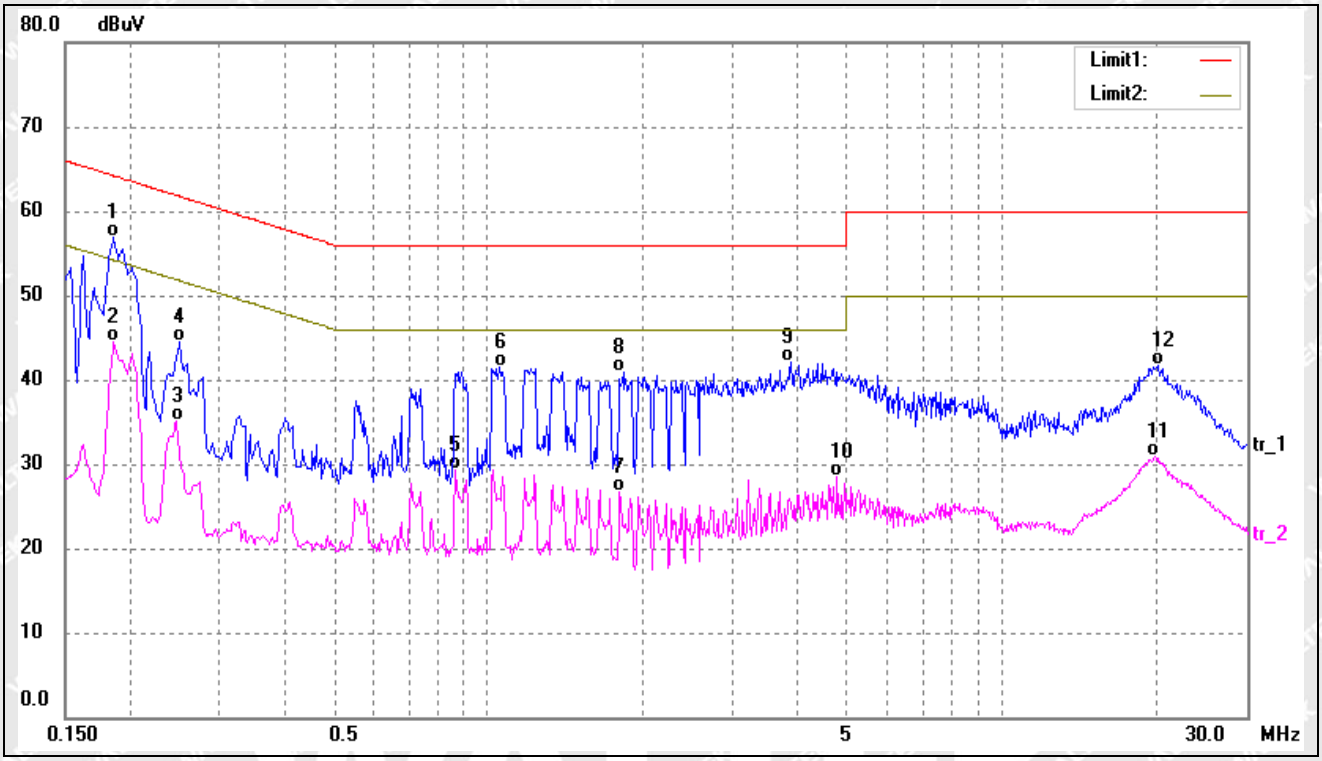
Test mode:	TM2	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1860	45.97	10.40	56.37	64.21	-7.84	QP
2	0.1860	34.10	10.40	44.50	54.21	-9.71	AVG
3	0.2460	30.95	10.35	41.30	61.89	-20.59	QP
4	0.2460	19.51	10.35	29.86	51.89	-22.03	AVG
5	0.8660	19.21	10.17	29.38	46.00	-16.62	AVG
6	1.2380	32.22	10.18	42.40	56.00	-13.60	QP
7	1.9660	31.79	10.33	42.12	56.00	-13.88	QP
8	1.9660	16.98	10.33	27.31	46.00	-18.69	AVG

9	4.6300	18.00	10.37	28.37	46.00	-17.63	AVG
10	4.8740	31.45	10.38	41.83	56.00	-14.17	QP
11	19.9540	20.55	10.38	30.93	50.00	-19.07	AVG
12	20.1820	31.08	10.38	41.46	60.00	-18.54	QP

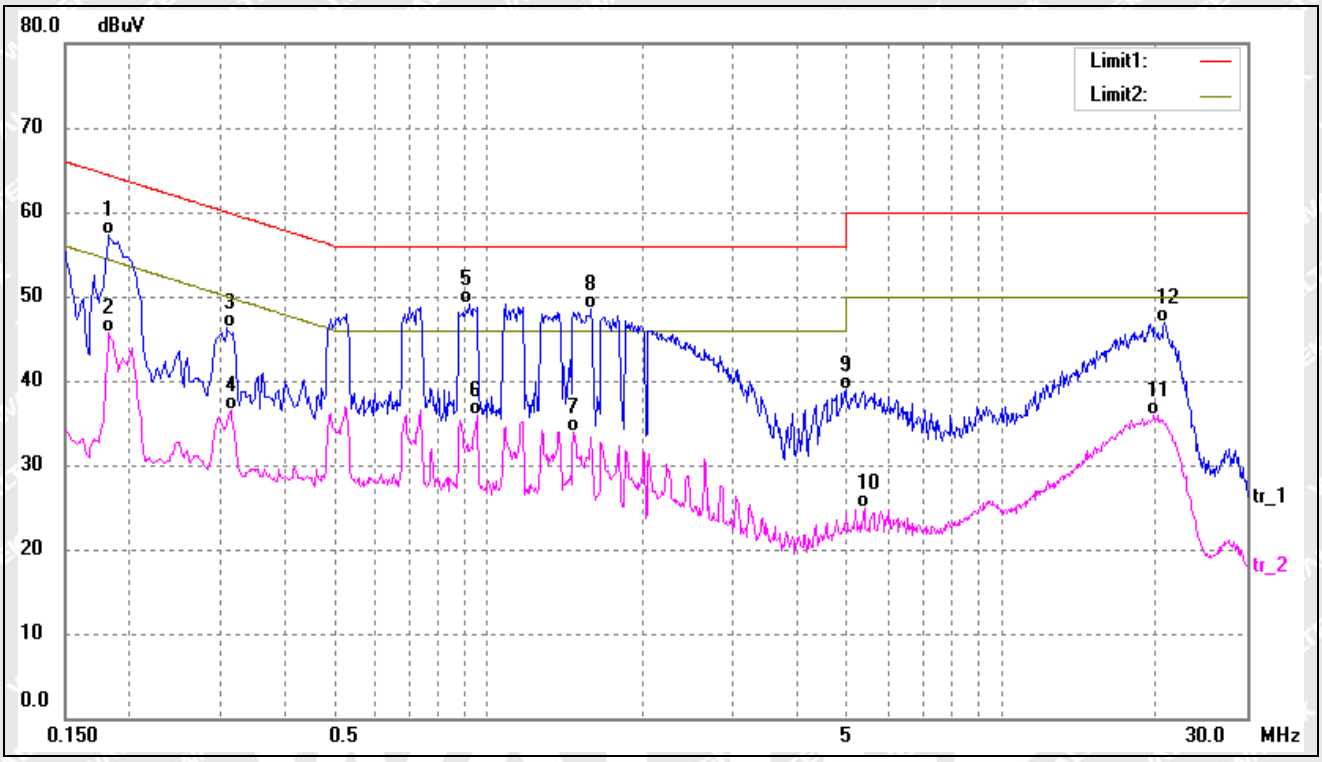
Test mode:	TM2	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1860	46.48	10.40	56.88	64.21	-7.33	QP
2	0.1860	34.17	10.40	44.57	54.21	-9.64	AVG
3	0.2460	24.70	10.35	35.05	51.89	-16.84	AVG
4	0.2500	34.12	10.34	44.46	61.75	-17.29	QP
5	0.8660	19.11	10.17	29.28	46.00	-16.72	AVG
6	1.0540	31.40	10.15	41.55	56.00	-14.45	QP
7	1.8020	16.44	10.29	26.73	46.00	-19.27	AVG
8	1.8380	30.56	10.30	40.86	56.00	-15.14	QP

9	3.8820	31.69	10.36	42.05	56.00	-13.95	QP
10	4.7819	18.11	10.38	28.49	46.00	-17.51	AVG
11	19.9100	20.55	10.38	30.93	50.00	-19.07	AVG
12	20.2460	31.32	10.38	41.70	60.00	-18.30	QP

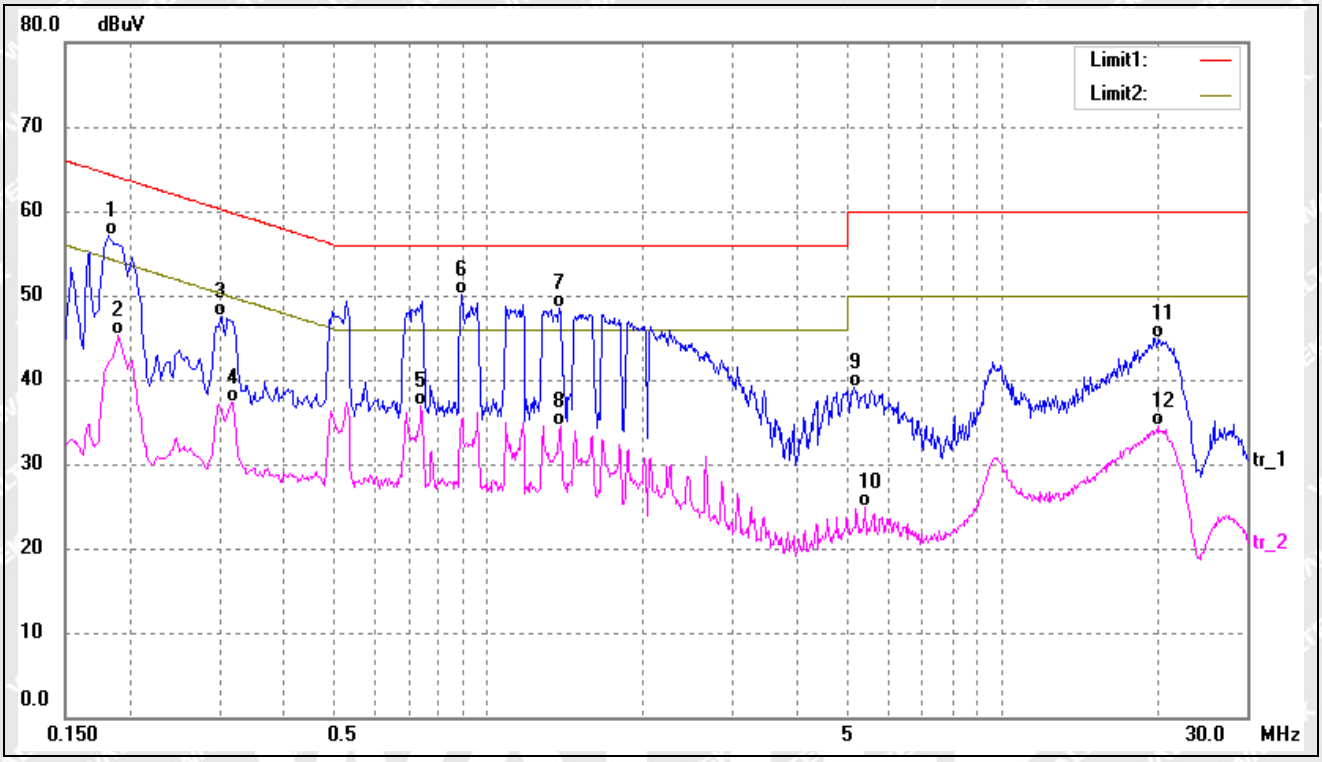
Test mode:	TM3	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1819	46.90	10.39	57.29	64.39	-7.10	QP
2	0.1819	35.35	10.39	45.74	54.39	-8.65	AVG
3	0.3100	36.04	10.30	46.34	59.97	-13.63	QP
4	0.3140	26.28	10.30	36.58	49.86	-13.28	AVG
5*	0.9220	38.89	10.15	49.04	56.00	-6.96	QP
6	0.9500	25.70	10.15	35.85	46.00	-10.15	AVG
7	1.4700	23.61	10.23	33.84	46.00	-12.16	AVG
8	1.5859	38.34	10.25	48.59	56.00	-7.41	QP

9	4.9740	28.53	10.38	38.91	56.00	-17.09	QP
10	5.4100	14.52	10.38	24.90	50.00	-25.10	AVG
11	19.8180	25.51	10.38	35.89	50.00	-14.11	AVG
12	20.7740	36.52	10.37	46.89	60.00	-13.11	QP

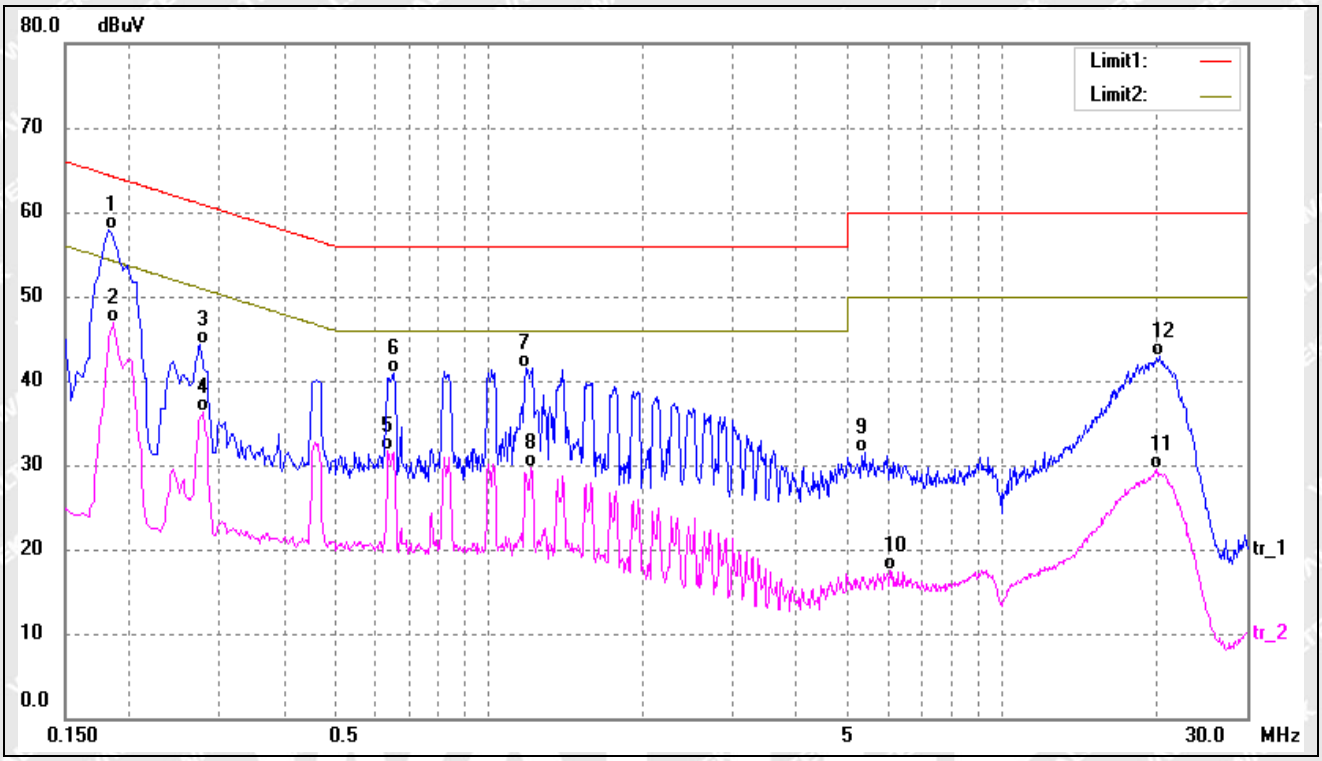
Test mode:	TM3	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1819	46.64	10.39	57.03	64.39	-7.36	QP
2	0.1900	34.96	10.39	45.35	54.03	-8.68	AVG
3	0.3020	37.25	10.30	47.55	60.19	-12.64	QP
4	0.3180	26.99	10.30	37.29	49.76	-12.47	AVG
5	0.7420	26.72	10.19	36.91	46.00	-9.09	AVG
6*	0.8860	39.85	10.16	50.01	56.00	-5.99	QP
7	1.3779	38.23	10.21	48.44	56.00	-7.56	QP
8	1.3820	24.38	10.21	34.59	46.00	-11.41	AVG

9	5.1540	28.74	10.38	39.12	60.00	-20.88	QP
10	5.4260	14.51	10.38	24.89	50.00	-25.11	AVG
11	19.8940	34.59	10.38	44.97	60.00	-15.03	QP
12	20.0940	24.11	10.38	34.49	50.00	-15.51	AVG

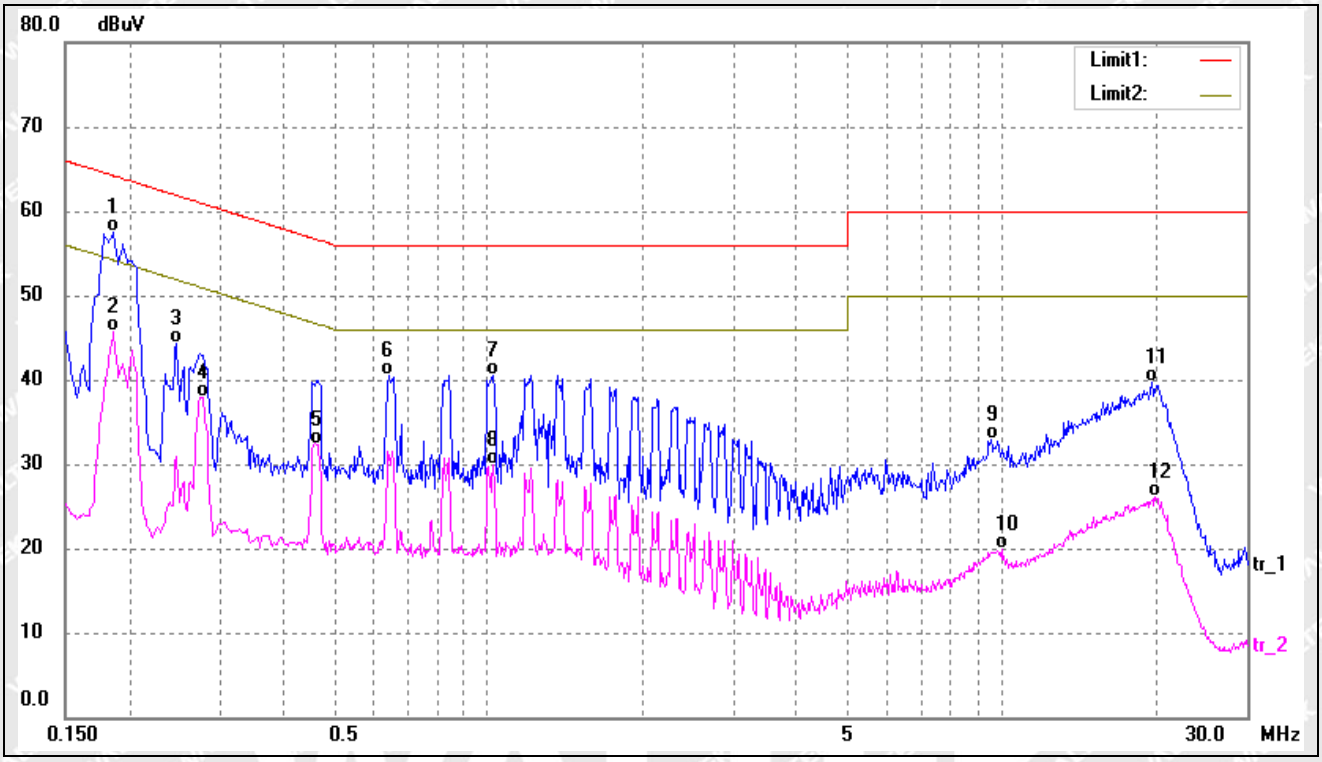
Test mode:	TM4	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1819	47.58	10.39	57.97	64.39	-6.42	QP
2	0.1860	36.48	10.40	46.88	54.21	-7.33	AVG
3	0.2740	33.99	10.33	44.32	60.99	-16.67	QP
4	0.2779	25.97	10.31	36.28	50.88	-14.60	AVG
5	0.6380	21.46	10.20	31.66	46.00	-14.34	AVG
6	0.6540	30.62	10.20	40.82	56.00	-15.18	QP
7	1.1860	31.34	10.18	41.52	56.00	-14.48	QP
8	1.2140	19.46	10.18	29.64	46.00	-16.36	AVG

9	5.3900	21.06	10.38	31.44	60.00	-28.56	QP
10	6.0739	7.14	10.38	17.52	50.00	-32.48	AVG
11	20.0340	19.08	10.38	29.46	50.00	-20.54	AVG
12	20.3460	32.46	10.37	42.83	60.00	-17.17	QP

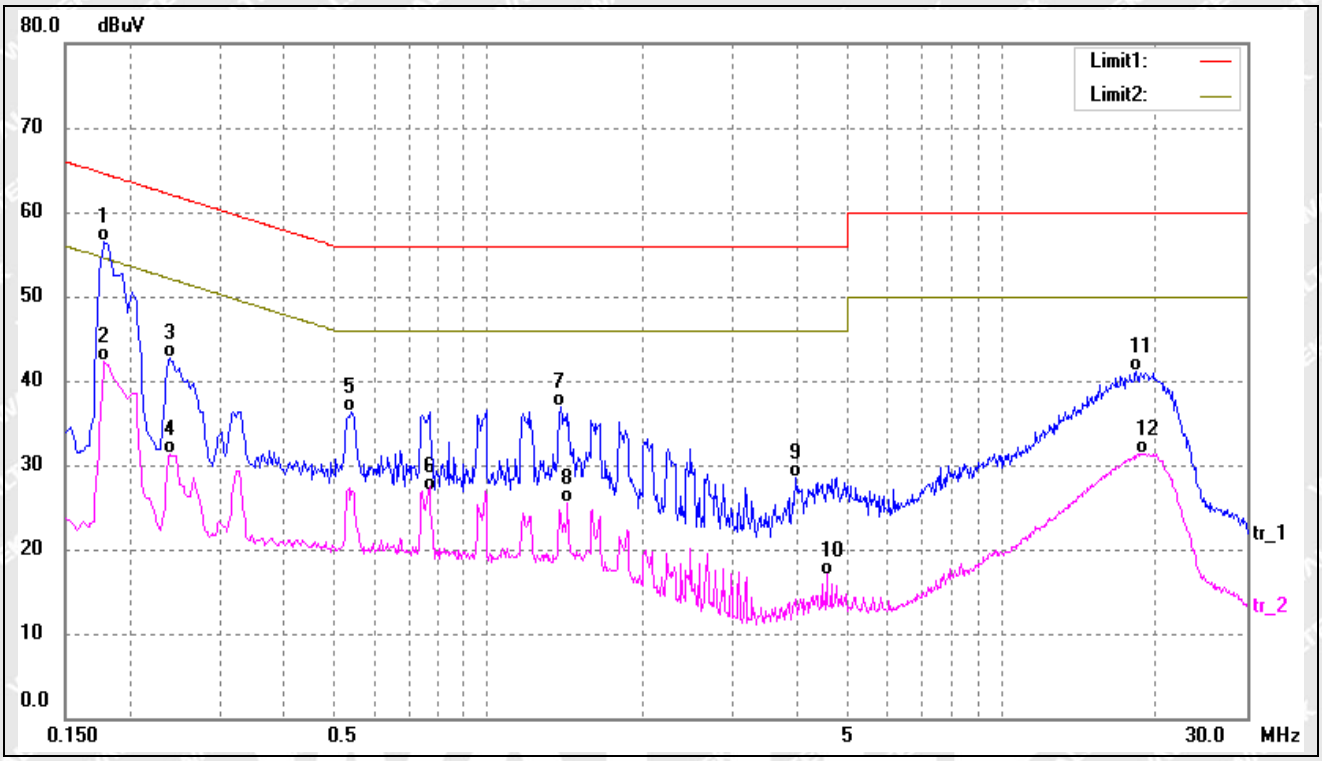
Test mode:	TM4	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1860	47.02	10.40	57.42	64.21	-6.79	QP
2	0.1860	35.27	10.40	45.67	54.21	-8.54	AVG
3	0.2460	33.97	10.35	44.32	61.89	-17.57	QP
4	0.2779	27.65	10.31	37.96	50.88	-12.92	AVG
5	0.4580	22.15	10.25	32.40	46.73	-14.33	AVG
6	0.6419	30.22	10.20	40.42	56.00	-15.58	QP
7	1.0260	30.44	10.14	40.58	56.00	-15.42	QP
8	1.0260	19.81	10.14	29.95	46.00	-16.05	AVG

9	9.5140	22.43	10.38	32.81	60.00	-27.19	QP
10	9.9940	9.51	10.38	19.89	50.00	-30.11	AVG
11	19.5780	29.29	10.36	39.65	60.00	-20.35	QP
12	19.9460	15.71	10.38	26.09	50.00	-23.91	AVG

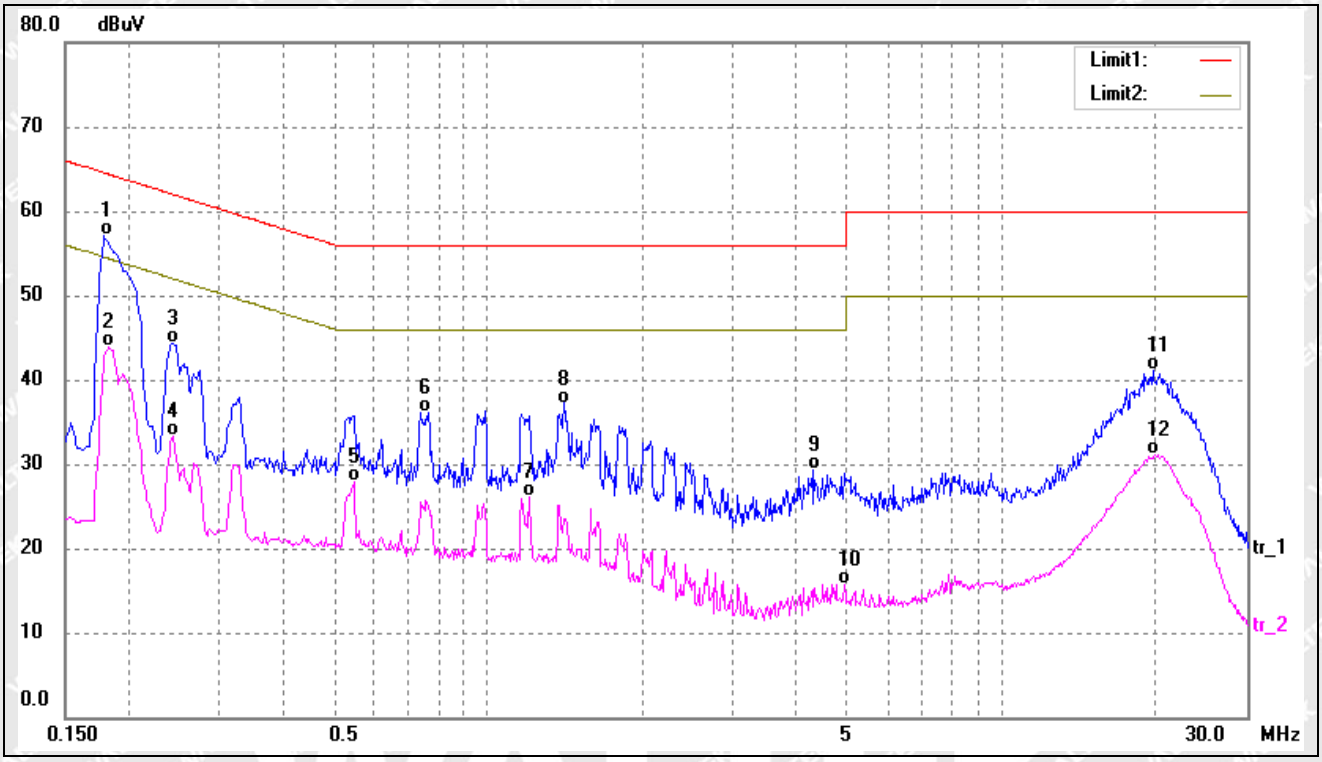
Test mode:	TM5	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1780	46.14	10.39	56.53	64.57	-8.04	QP
2	0.1780	31.83	10.39	42.22	54.57	-12.35	AVG
3	0.2380	32.36	10.35	42.71	62.16	-19.45	QP
4	0.2380	20.96	10.35	31.31	52.16	-20.85	AVG
5	0.5420	26.10	10.23	36.33	56.00	-19.67	QP
6	0.7700	16.73	10.18	26.91	46.00	-19.09	AVG
7	1.3820	26.70	10.21	36.91	56.00	-19.09	QP
8	1.4299	15.25	10.22	25.47	46.00	-20.53	AVG

9	3.9660	18.20	10.36	28.56	56.00	-27.44	QP
10	4.5620	6.63	10.37	17.00	46.00	-29.00	AVG
11	18.3060	30.72	10.33	41.05	60.00	-18.95	QP
12	18.8900	21.05	10.35	31.40	50.00	-18.60	AVG

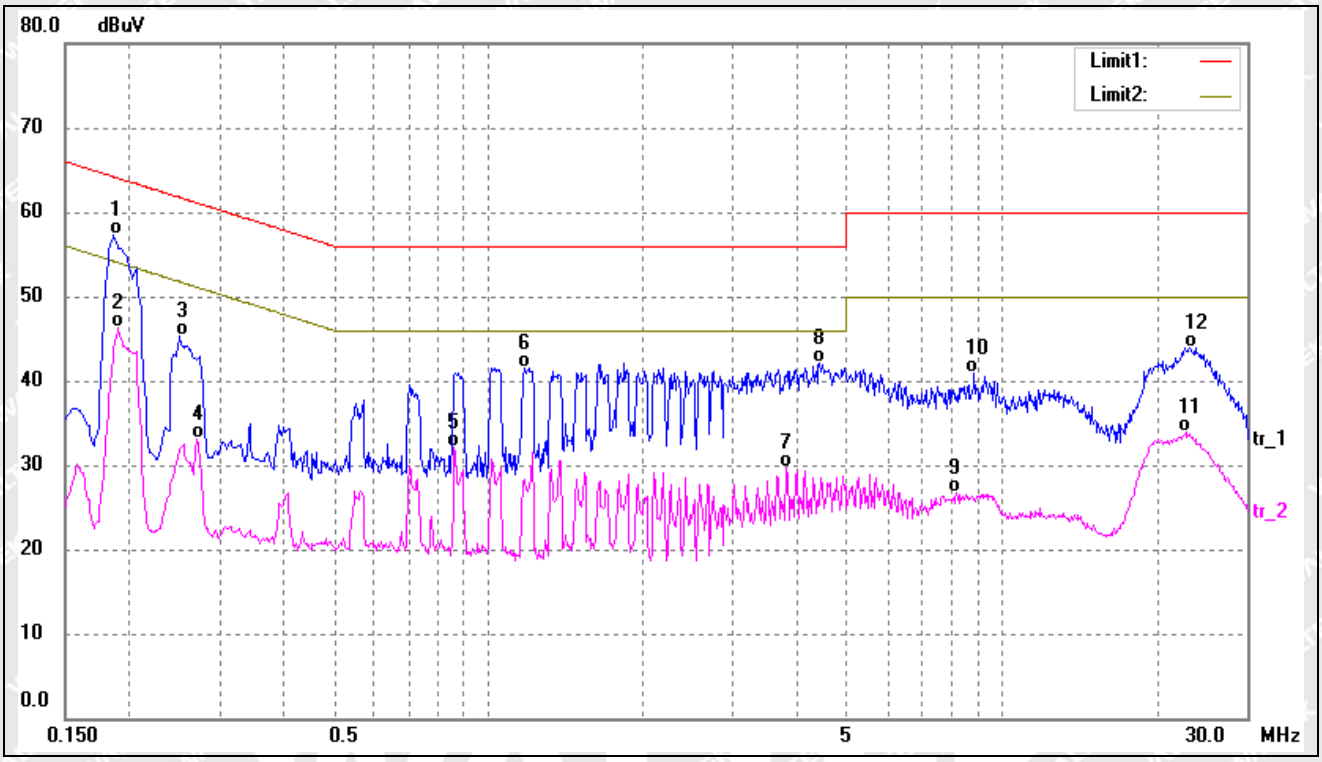
Test mode:	TM5	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1780	46.66	10.39	57.05	64.57	-7.52	QP
2	0.1819	33.44	10.39	43.83	54.39	-10.56	AVG
3	0.2420	33.94	10.35	44.29	62.02	-17.73	QP
4	0.2420	22.95	10.35	33.30	52.02	-18.72	AVG
5	0.5460	17.59	10.22	27.81	46.00	-18.19	AVG
6	0.7660	26.02	10.18	36.20	56.00	-19.80	QP
7	1.2059	16.00	10.18	26.18	46.00	-19.82	AVG
8	1.4100	26.98	10.22	37.20	56.00	-18.80	QP

9	4.2700	18.96	10.37	29.33	56.00	-26.67	QP
10	4.9340	5.42	10.38	15.80	46.00	-30.20	AVG
11	19.6620	30.64	10.37	41.01	60.00	-18.99	QP
12	19.9020	20.71	10.38	31.09	50.00	-18.91	AVG

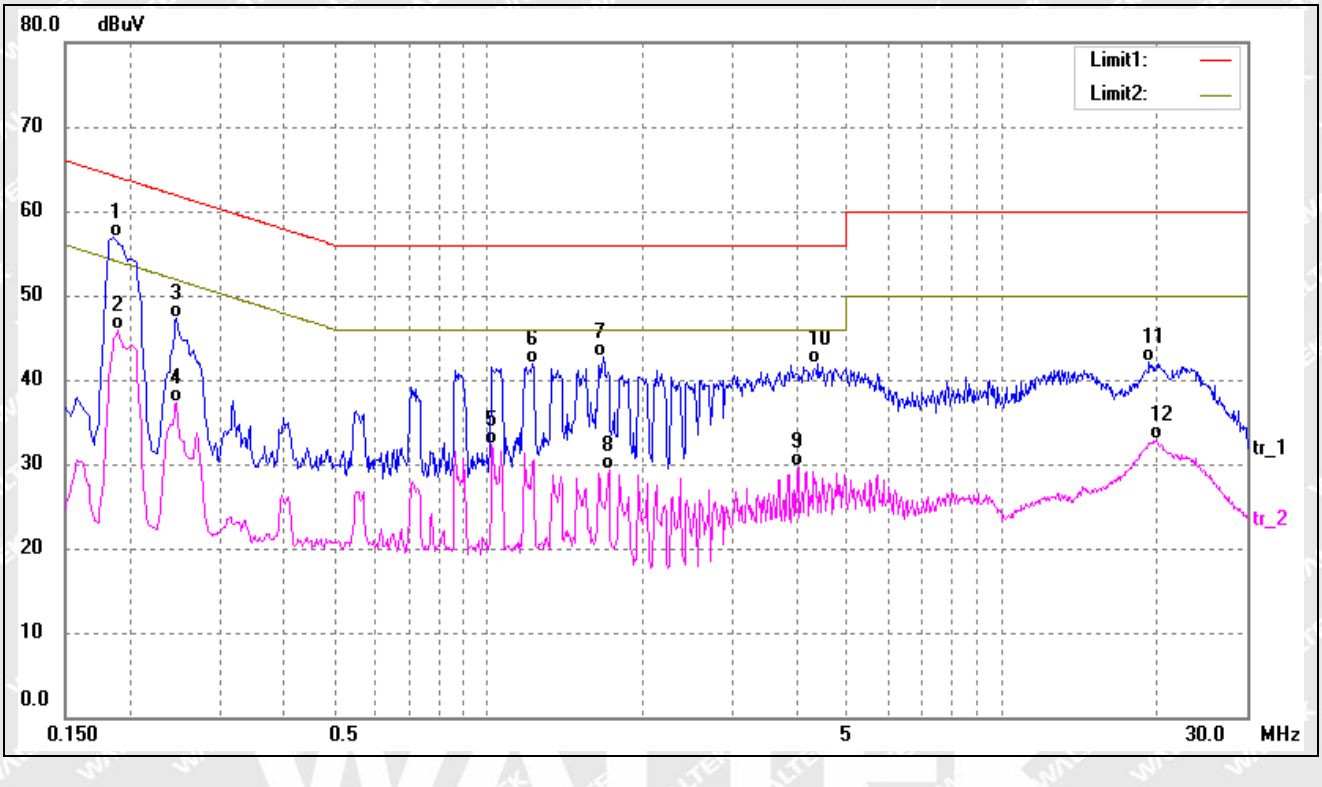
Test mode:	TM6	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1860	46.96	10.40	57.36	64.21	-6.85	QP
2	0.1900	35.90	10.39	46.29	54.03	-7.74	AVG
3	0.2500	34.94	10.34	45.28	61.75	-16.47	QP
4	0.2700	22.79	10.33	33.12	51.12	-18.00	AVG
5	0.8580	21.88	10.17	32.05	46.00	-13.95	AVG
6	1.1820	31.33	10.18	41.51	56.00	-14.49	QP
7	3.8140	19.37	10.36	29.73	46.00	-16.27	AVG
8	4.4300	31.72	10.37	42.09	56.00	-13.91	QP

9	8.1540	16.32	10.38	26.70	50.00	-23.30	AVG
10	8.8580	30.50	10.38	40.88	60.00	-19.12	QP
11	22.8900	23.50	10.33	33.83	50.00	-16.17	AVG
12	23.8140	33.69	10.31	44.00	60.00	-16.00	QP

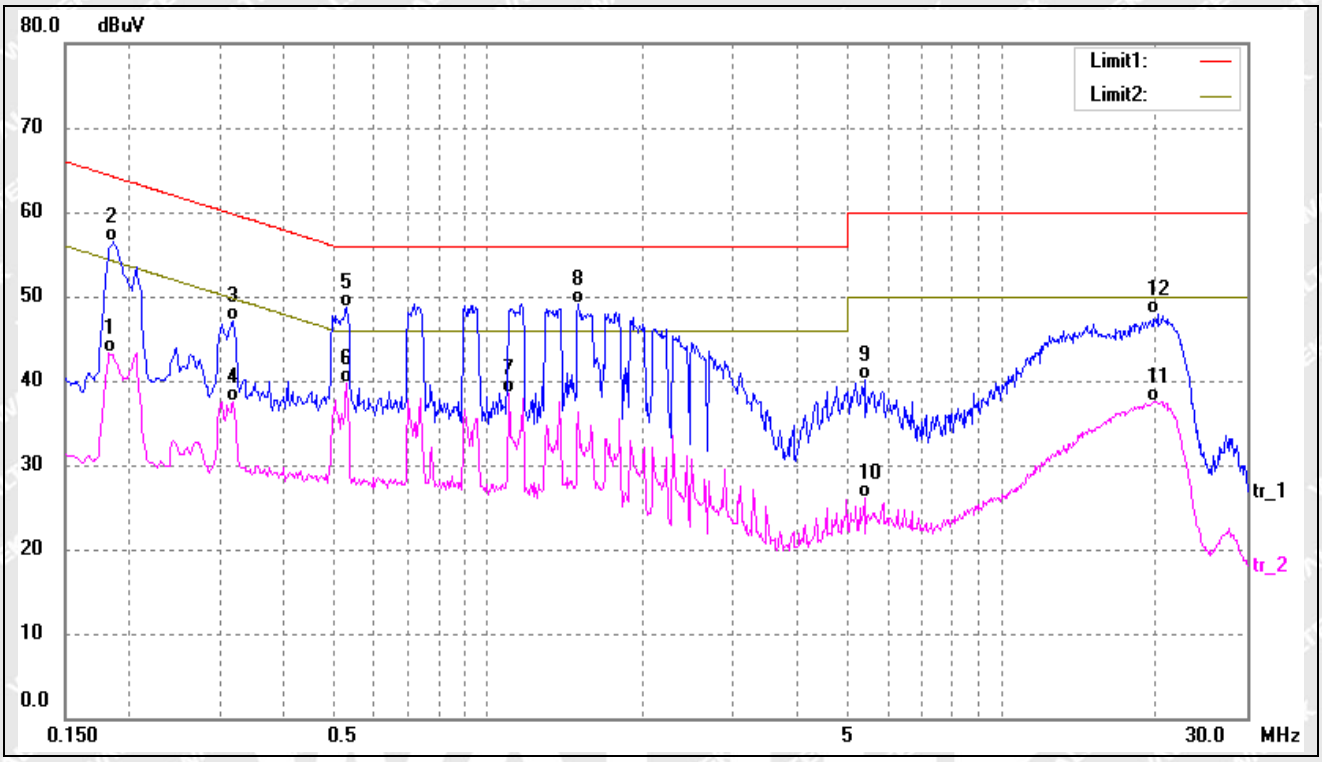
Test mode:	TM6	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1860	46.53	10.40	56.93	64.21	-7.28	QP
2	0.1900	35.43	10.39	45.82	54.03	-8.21	AVG
3	0.2460	36.96	10.35	47.31	61.89	-14.58	QP
4	0.2460	26.99	10.35	37.34	51.89	-14.55	AVG
5	1.0180	22.24	10.14	32.38	46.00	-13.62	AVG
6	1.2220	31.73	10.18	41.91	56.00	-14.09	QP
7	1.6780	32.48	10.27	42.75	56.00	-13.25	QP
8	1.7180	19.10	10.27	29.37	46.00	-16.63	AVG

9	4.0100	19.36	10.36	29.72	46.00	-16.28	AVG
10	4.3940	31.51	10.37	41.88	56.00	-14.12	QP
11	19.3860	31.73	10.36	42.09	60.00	-17.91	QP
12	20.0180	22.43	10.38	32.81	50.00	-17.19	AVG

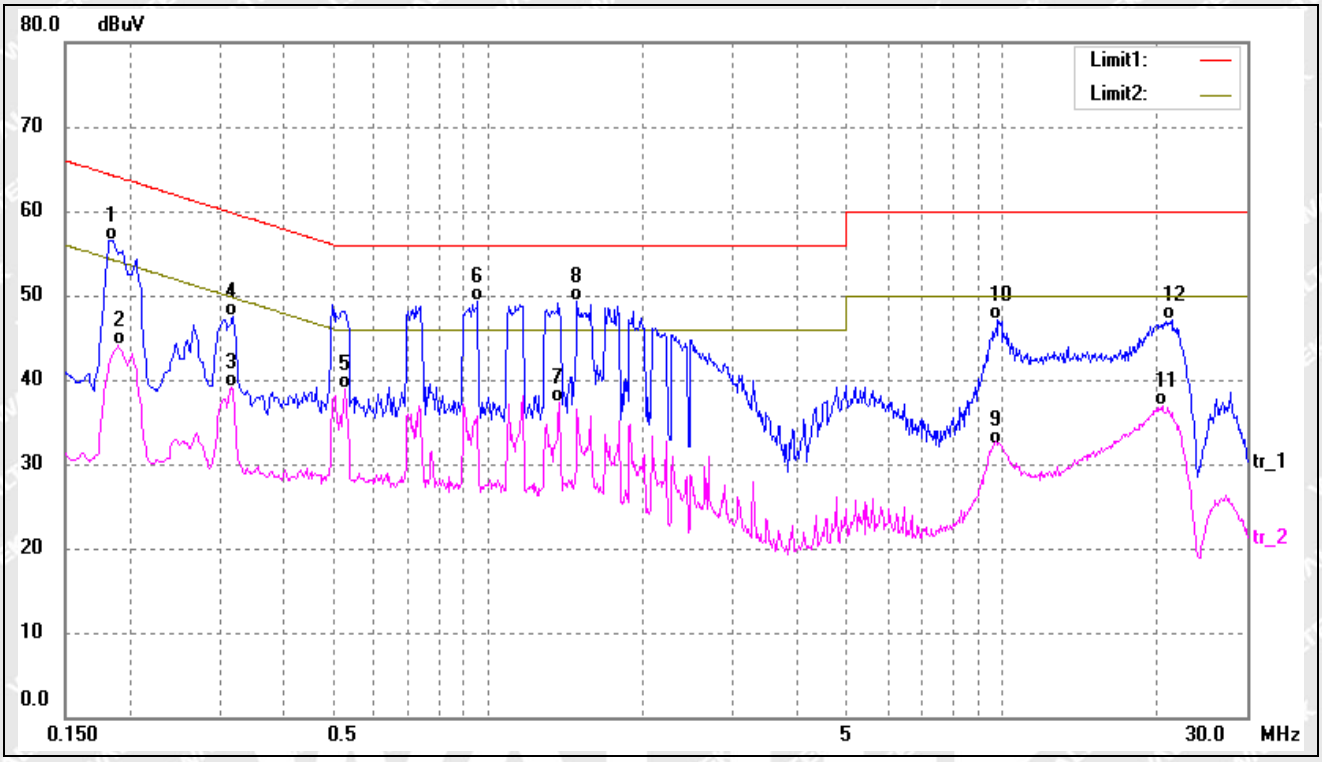
Test mode:	TM7	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1819	32.86	10.39	43.25	54.39	-11.14	AVG
2	0.1860	46.11	10.40	56.51	64.21	-7.70	QP
3	0.3180	36.81	10.30	47.11	59.76	-12.65	QP
4	0.3180	27.20	10.30	37.50	49.76	-12.26	AVG
5	0.5299	38.56	10.23	48.79	56.00	-7.21	QP
6*	0.5299	29.53	10.23	39.76	46.00	-6.24	AVG
7	1.0980	28.25	10.16	38.41	46.00	-7.59	AVG
8	1.4980	38.86	10.23	49.09	56.00	-6.91	QP

9	5.4140	29.68	10.38	40.06	60.00	-19.94	QP
10	5.4140	15.67	10.38	26.05	50.00	-23.95	AVG
11	19.8940	27.21	10.38	37.59	50.00	-12.41	AVG
12	20.0740	37.48	10.38	47.86	60.00	-12.14	QP

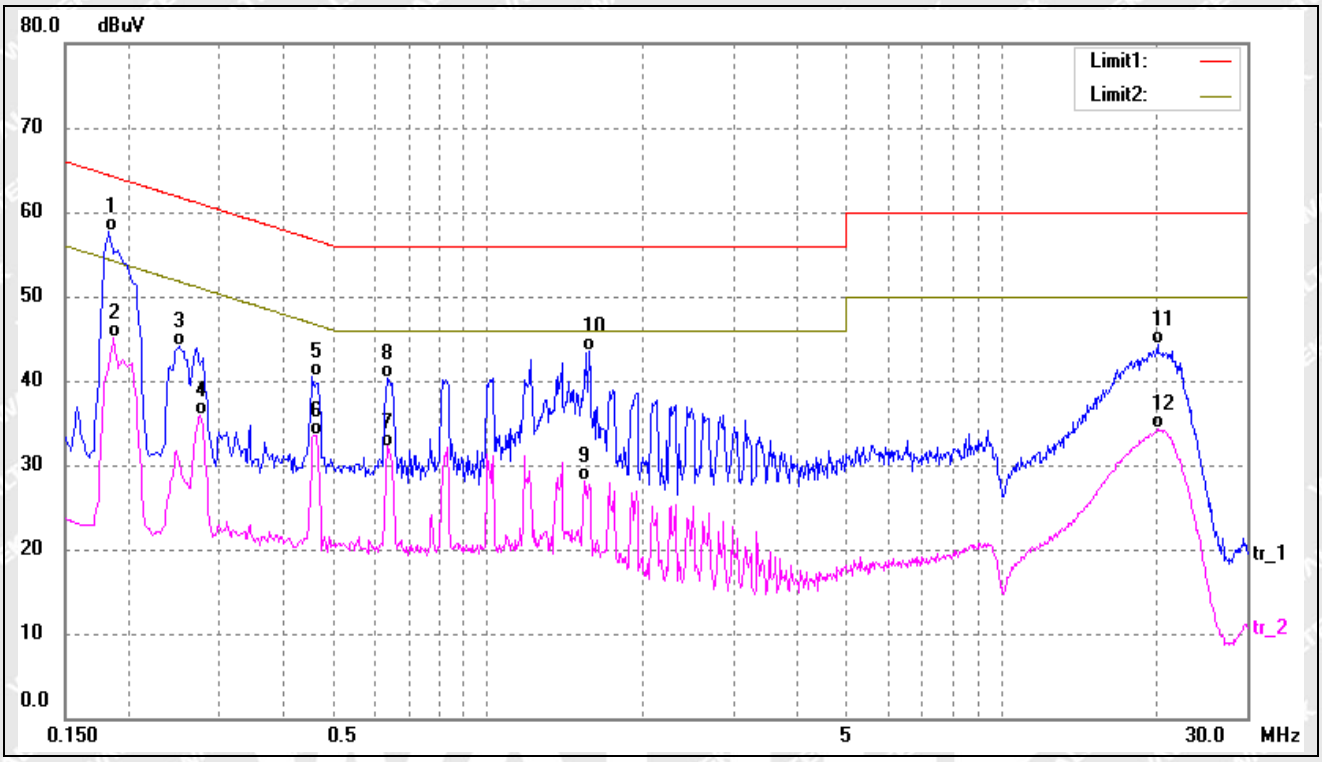
Test mode:	TM7	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1819	46.16	10.39	56.55	64.39	-7.84	QP
2	0.1900	33.66	10.39	44.05	54.03	-9.98	AVG
3	0.3140	28.75	10.30	39.05	49.86	-10.81	AVG
4	0.3180	37.13	10.30	47.43	59.76	-12.33	QP
5	0.5260	28.66	10.23	38.89	46.00	-7.11	AVG
6*	0.9540	39.18	10.15	49.33	56.00	-6.67	QP
7	1.3740	27.06	10.21	37.27	46.00	-8.73	AVG
8	1.4940	39.07	10.23	49.30	56.00	-6.70	QP

9	9.6740	21.89	10.38	32.27	50.00	-17.73	AVG
10	9.8260	36.80	10.38	47.18	60.00	-12.82	QP
11	20.5260	26.46	10.37	36.83	50.00	-13.17	AVG
12	21.3779	36.70	10.36	47.06	60.00	-12.94	QP

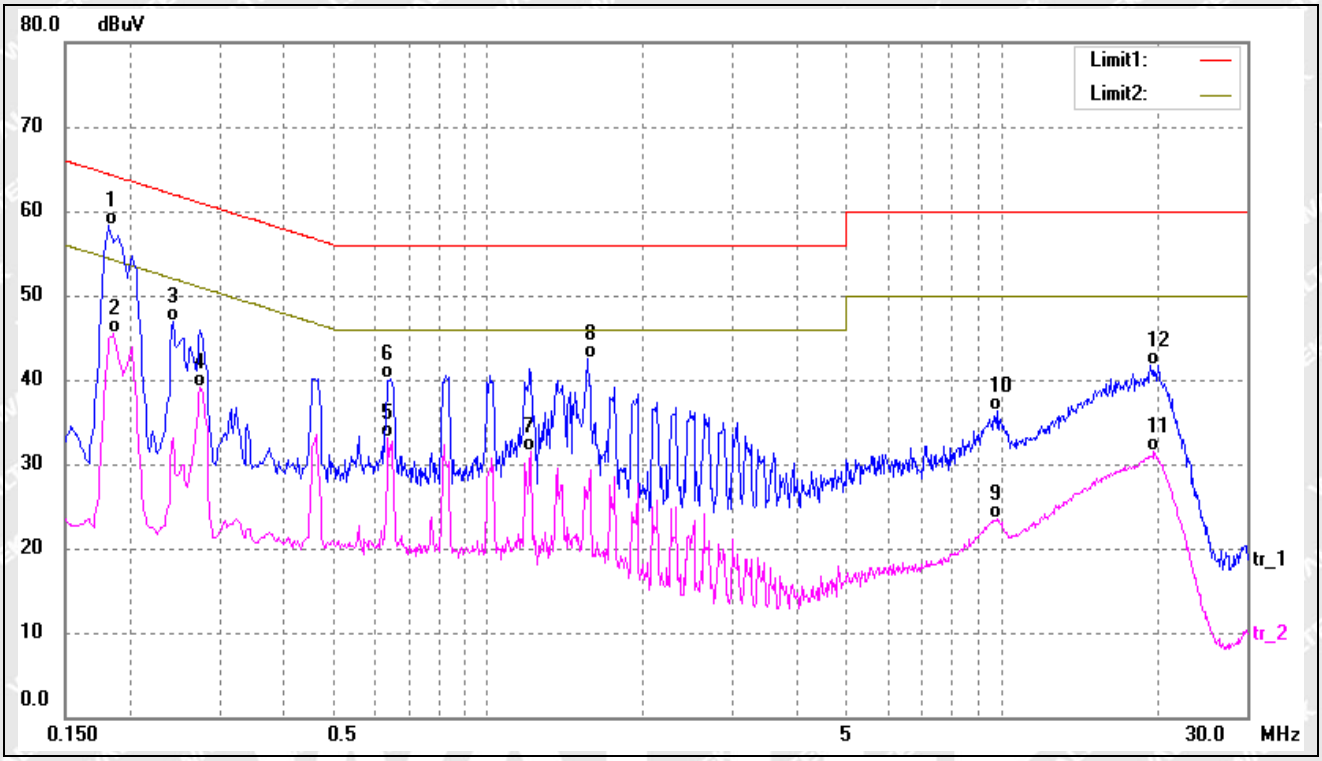
Test mode:	TM8	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1819	47.31	10.39	57.70	64.39	-6.69	QP
2	0.1860	34.63	10.40	45.03	54.21	-9.18	AVG
3	0.2500	33.79	10.34	44.13	61.75	-17.62	QP
4	0.2740	25.50	10.33	35.83	50.99	-15.16	AVG
5	0.4540	30.16	10.25	40.41	56.80	-16.39	QP
6	0.4580	23.35	10.25	33.60	46.73	-13.13	AVG
7	0.6340	22.00	10.20	32.20	46.00	-13.80	AVG
8	0.6380	30.17	10.20	40.37	56.00	-15.63	QP

9	1.5420	17.78	10.24	28.02	46.00	-17.98	AVG
10	1.5700	33.23	10.25	43.48	56.00	-12.52	QP
11	20.1020	33.86	10.38	44.24	60.00	-15.76	QP
12	20.1020	23.95	10.38	34.33	50.00	-15.67	AVG

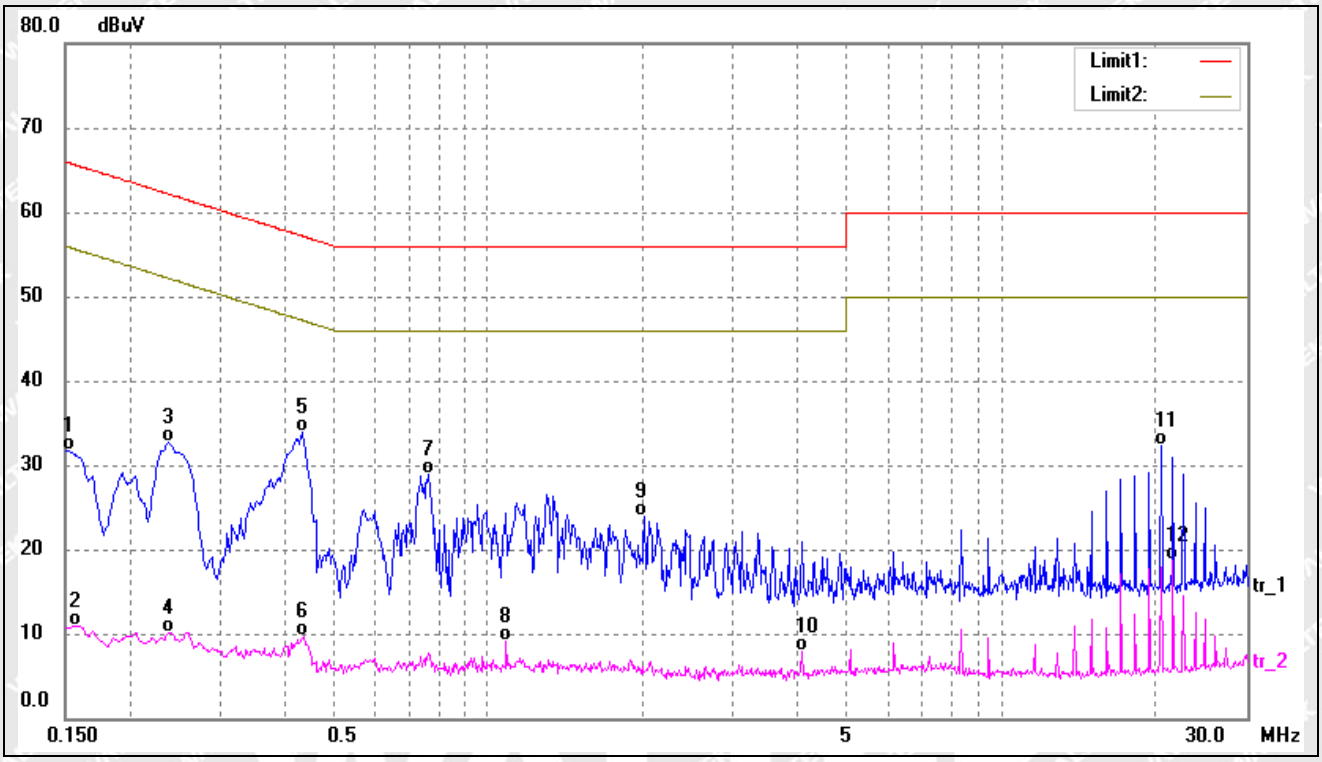
Test mode:	TM8	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1819	47.97	10.39	58.36	64.39	-6.03	QP
2	0.1860	35.01	10.40	45.41	54.21	-8.80	AVG
3	0.2420	36.58	10.35	46.93	62.02	-15.09	QP
4	0.2740	28.85	10.33	39.18	50.99	-11.81	AVG
5	0.6380	22.84	10.20	33.04	46.00	-12.96	AVG
6	0.6460	29.96	10.20	40.16	56.00	-15.84	QP
7	1.2100	21.28	10.18	31.46	46.00	-14.54	AVG
8	1.5660	32.25	10.25	42.50	56.00	-13.50	QP

9	9.7820	13.19	10.38	23.57	50.00	-26.43	AVG
10	9.8340	25.84	10.38	36.22	60.00	-23.78	QP
11	19.7900	21.07	10.38	31.45	50.00	-18.55	AVG
12	20.0900	31.42	10.38	41.80	60.00	-18.20	QP

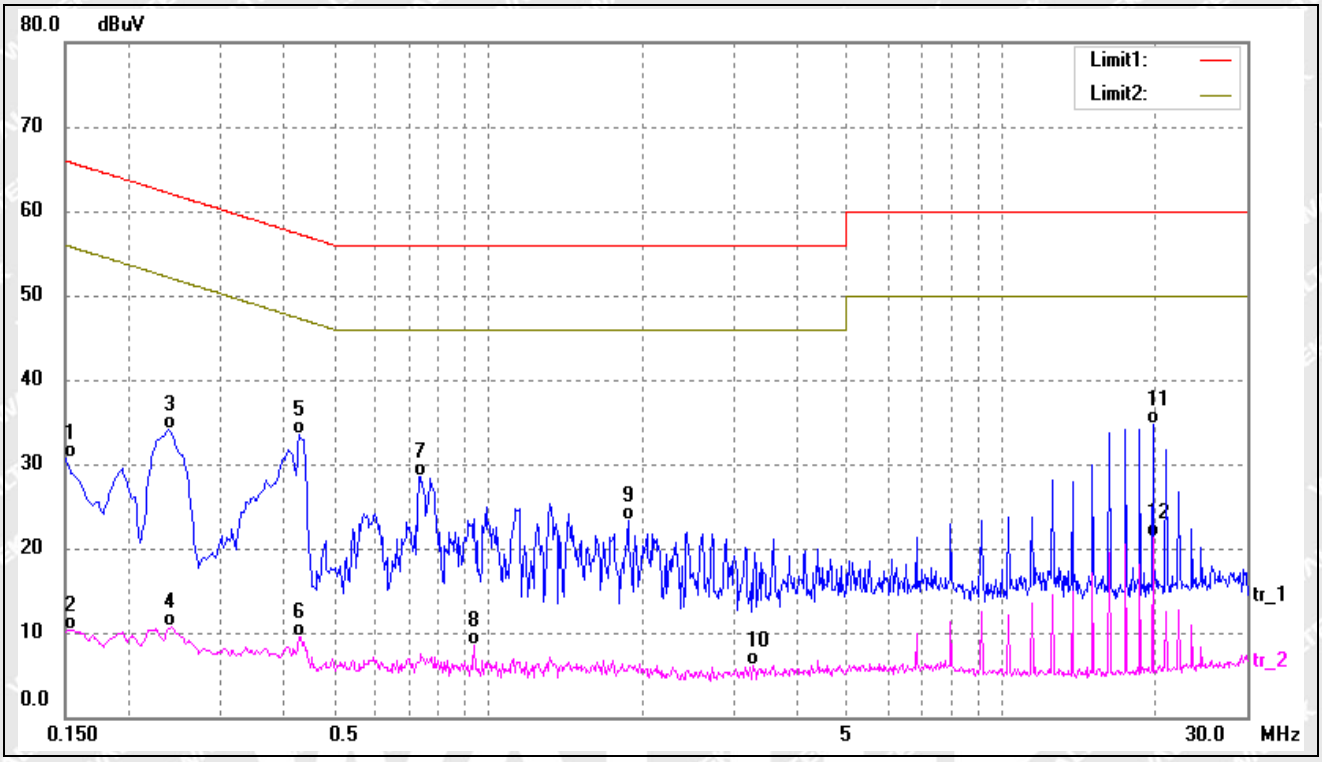
Test mode:	TM9	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	21.25	10.40	31.65	65.99	-34.34	QP
2	0.1580	0.60	10.40	11.00	55.56	-44.56	AVG
3	0.2380	22.38	10.35	32.73	62.16	-29.43	QP
4	0.2380	-0.17	10.35	10.18	52.16	-41.98	AVG
5*	0.4340	23.61	10.25	33.86	57.18	-23.32	QP
6	0.4380	-0.63	10.25	9.62	47.10	-37.48	AVG
7	0.7660	18.76	10.18	28.94	56.00	-27.06	QP
8	1.0859	-1.01	10.13	9.12	46.00	-36.88	AVG

9	2.0220	13.91	9.97	23.88	56.00	-32.12	QP
10	4.0860	-2.33	10.25	7.92	46.00	-38.08	AVG
11	20.4260	22.03	10.37	32.40	60.00	-27.60	QP
12	21.5340	8.40	10.35	18.75	50.00	-31.25	AVG

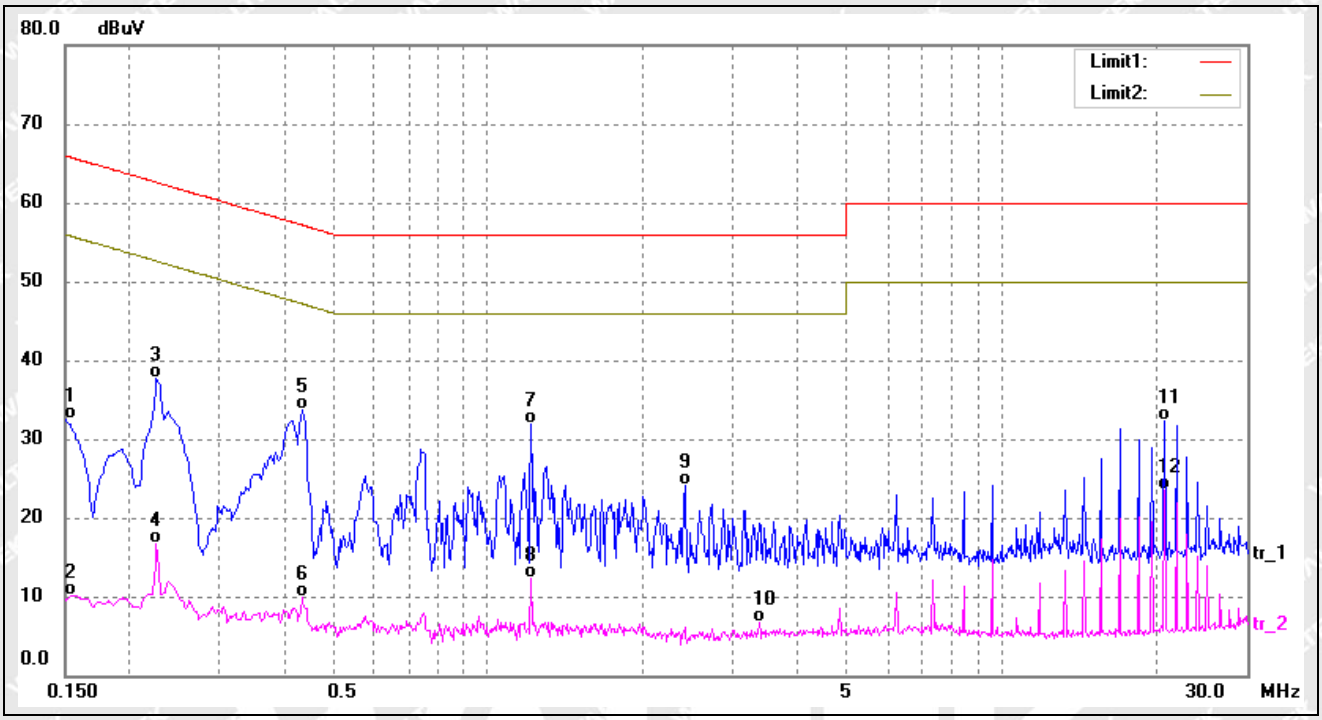
Test mode:	TM9	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	20.37	10.40	30.77	65.99	-35.22	QP
2	0.1539	-0.01	10.41	10.40	55.78	-45.38	AVG
3	0.2380	23.78	10.35	34.13	62.16	-28.03	QP
4	0.2420	0.31	10.35	10.66	52.02	-41.36	AVG
5*	0.4300	23.17	10.25	33.42	57.25	-23.83	QP
6	0.4300	-0.73	10.25	9.52	47.25	-37.73	AVG
7	0.7420	18.41	10.19	28.60	56.00	-27.40	QP
8	0.9420	-1.63	10.15	8.52	46.00	-37.48	AVG

9	1.8700	13.38	9.99	23.37	56.00	-32.63	QP
10	3.2820	-3.95	10.14	6.19	46.00	-39.81	AVG
11	19.7260	24.31	10.37	34.68	60.00	-25.32	QP
12	19.7260	10.92	10.37	21.29	50.00	-28.71	AVG

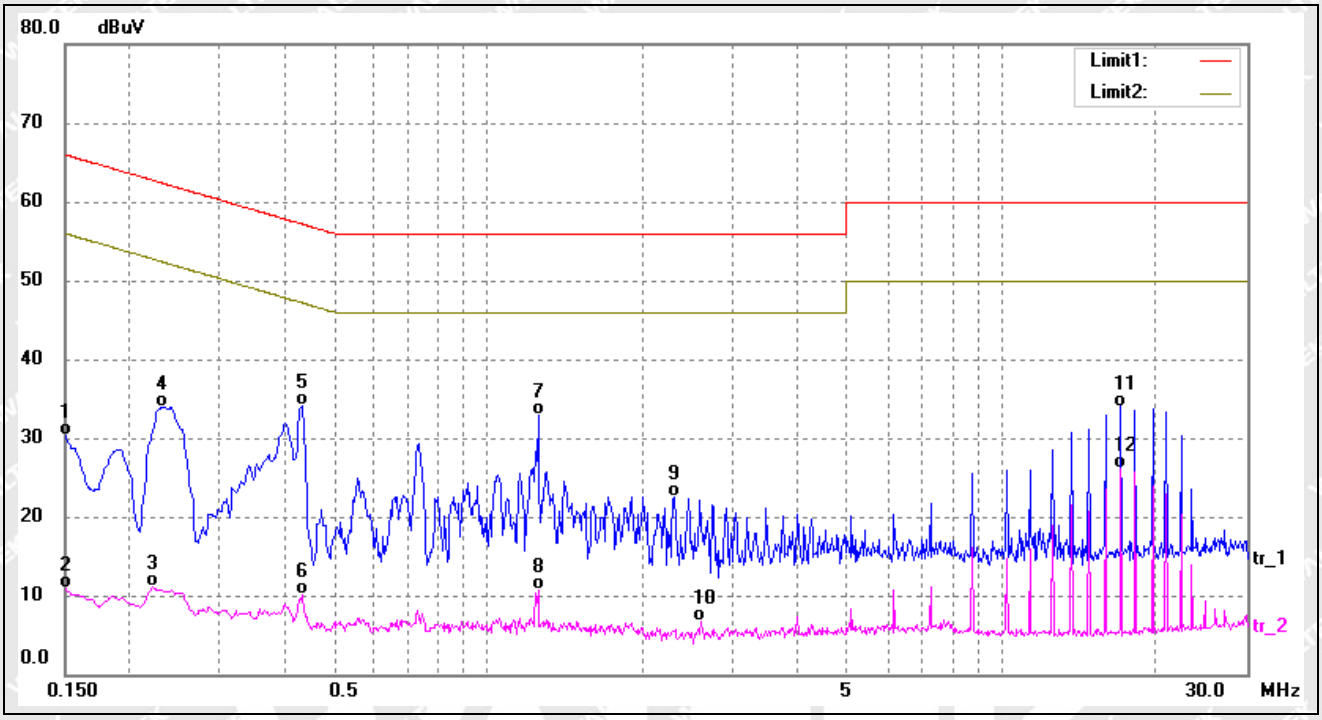
Test mode:	TM10	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	22.06	10.40	32.46	65.99	-33.53	QP
2	0.1539	-0.27	10.41	10.14	55.78	-45.64	AVG
3	0.2260	27.39	10.36	37.75	62.59	-24.84	QP
4	0.2260	6.35	10.36	16.71	52.59	-35.88	AVG
5*	0.4340	23.36	10.25	33.61	57.18	-23.57	QP
6	0.4340	-0.41	10.25	9.84	47.18	-37.34	AVG
7	1.2140	21.86	10.10	31.96	56.00	-24.04	QP
8	1.2140	2.19	10.10	12.29	46.00	-33.71	AVG

9	2.4100	14.14	10.03	24.17	56.00	-31.83	QP
10	3.3740	-3.49	10.15	6.66	46.00	-39.34	AVG
11	20.7139	21.99	10.37	32.36	60.00	-27.64	QP
12	20.7139	13.12	10.37	23.49	50.00	-26.51	AVG

Test mode:	TM10	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	19.91	10.40	30.31	65.99	-35.68	QP
2	0.1500	0.49	10.40	10.89	55.99	-45.10	AVG
3	0.2220	0.73	10.37	11.10	52.74	-41.64	AVG
4	0.2340	23.64	10.35	33.99	62.30	-28.31	QP
5*	0.4340	23.92	10.25	34.17	57.18	-23.01	QP
6	0.4340	-0.23	10.25	10.02	47.18	-37.16	AVG
7	1.2500	22.82	10.09	32.91	56.00	-23.09	QP
8	1.2500	0.56	10.09	10.65	46.00	-35.35	AVG

9	2.3020	12.40	10.01	22.41	56.00	-33.59	QP
10	2.6060	-3.33	10.05	6.72	46.00	-39.28	AVG
11	17.0540	23.72	10.28	34.00	60.00	-26.00	QP
12	17.0540	15.75	10.28	26.03	50.00	-23.97	AVG

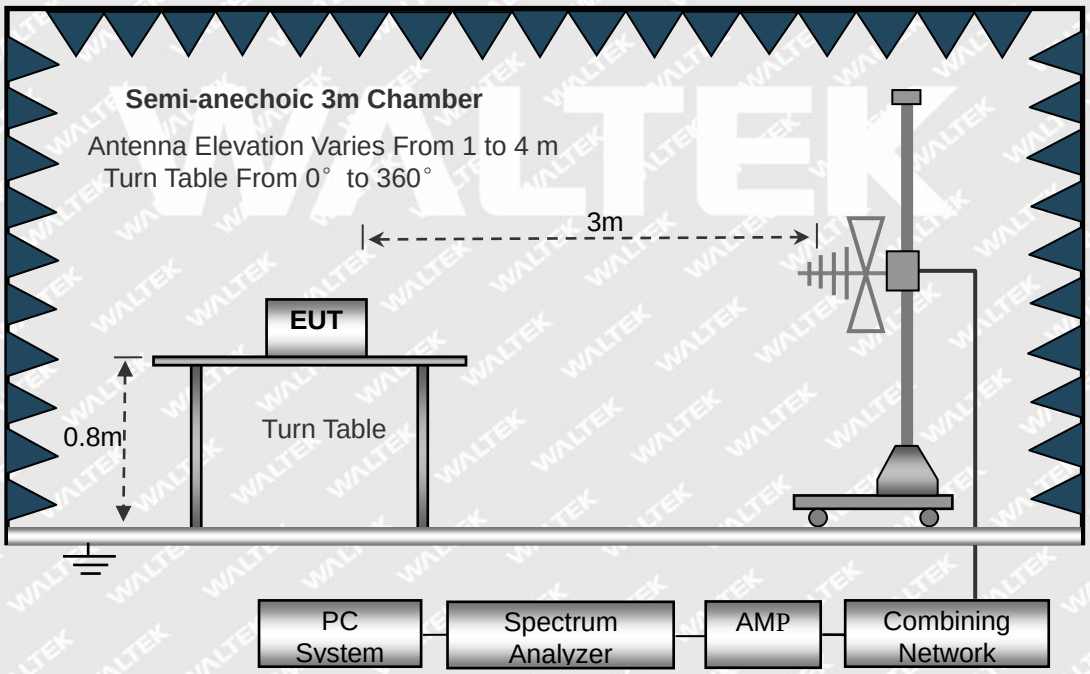
4. Radiated Emission

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 ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-18GHz ±3.92dB

4.2 Basic Test Setup Block Diagram



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:

Corr. Ampl. = Indicated Reading + Correct

Correct=Ant.Factor + Cable Loss - Ampl.Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for Class B device. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – CISPR 11 Class B Limit

4.4 Environmental Conditions

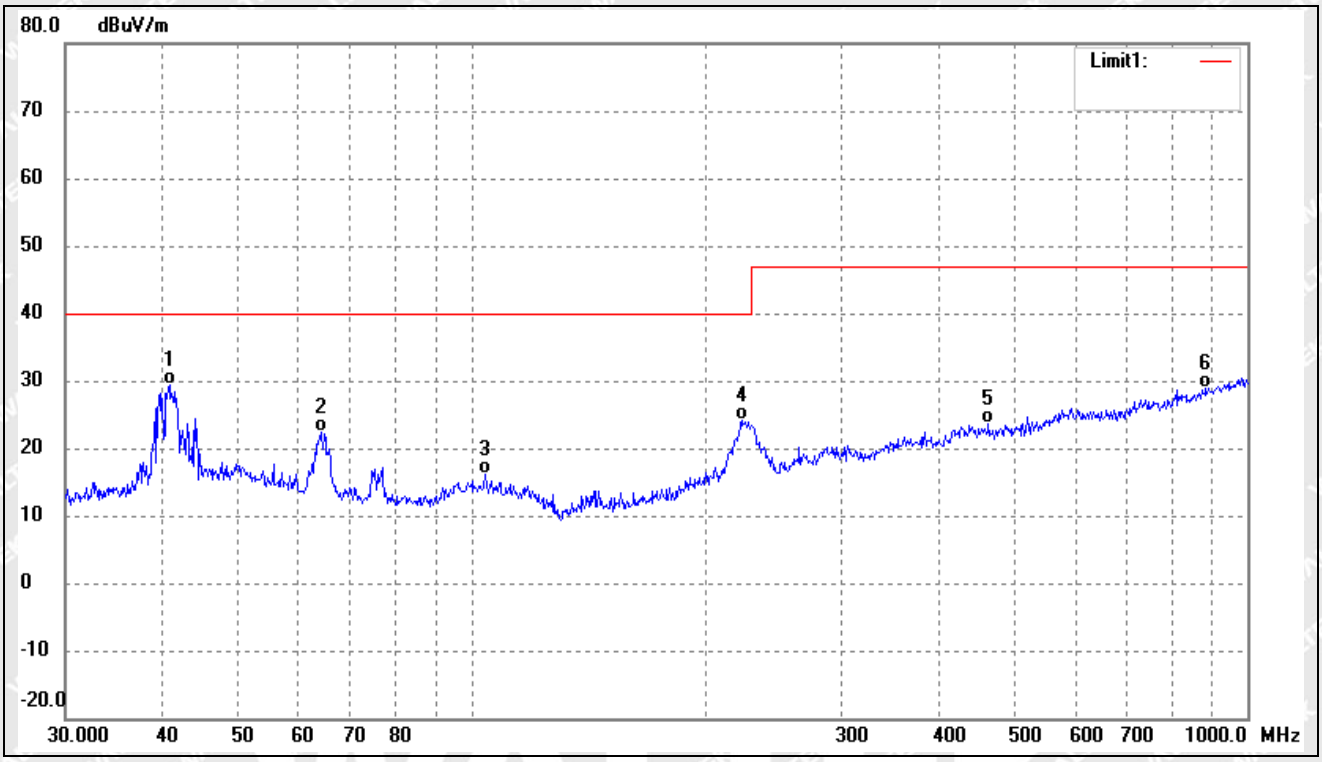
Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	998 mbar

4.5 Summary of Test Results

Please find the results below:

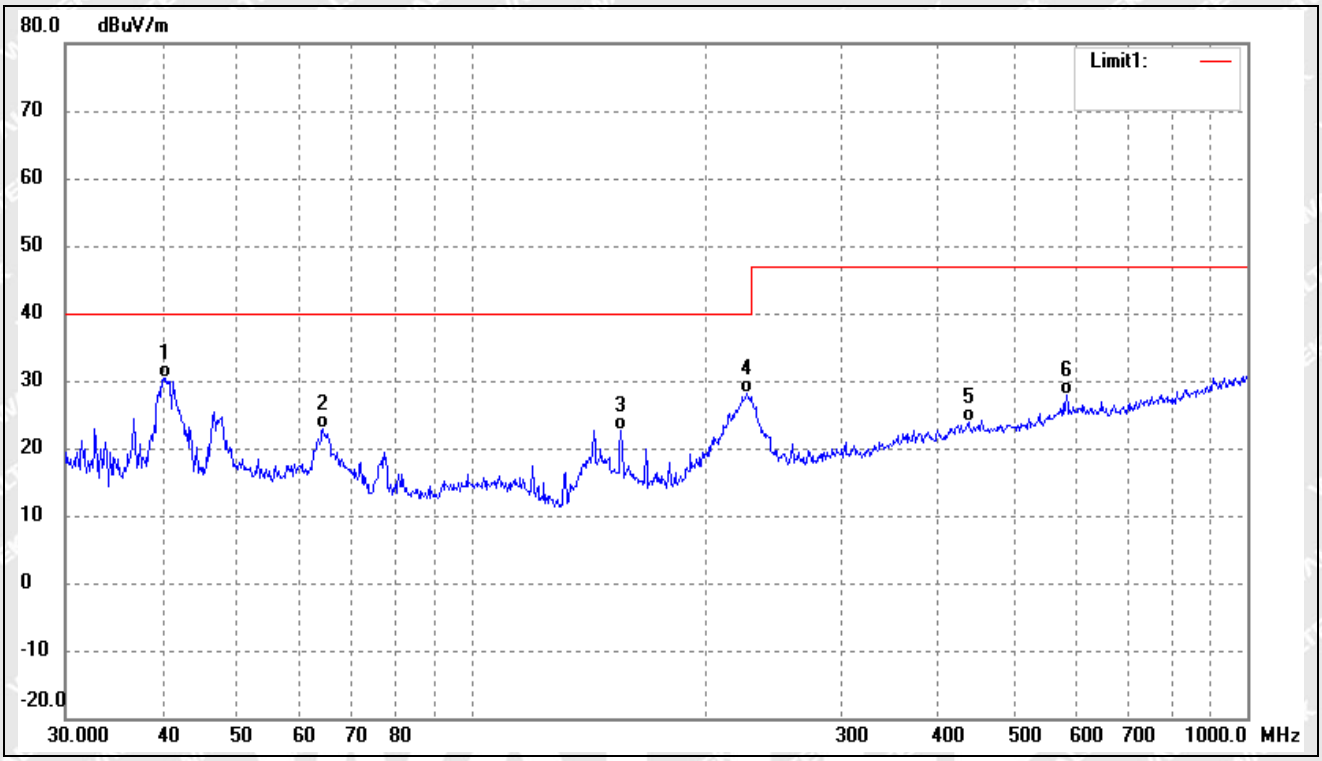
Limit1 = Class B limit (QP)

Test mode:	TM1	Polarity:	Horizontal



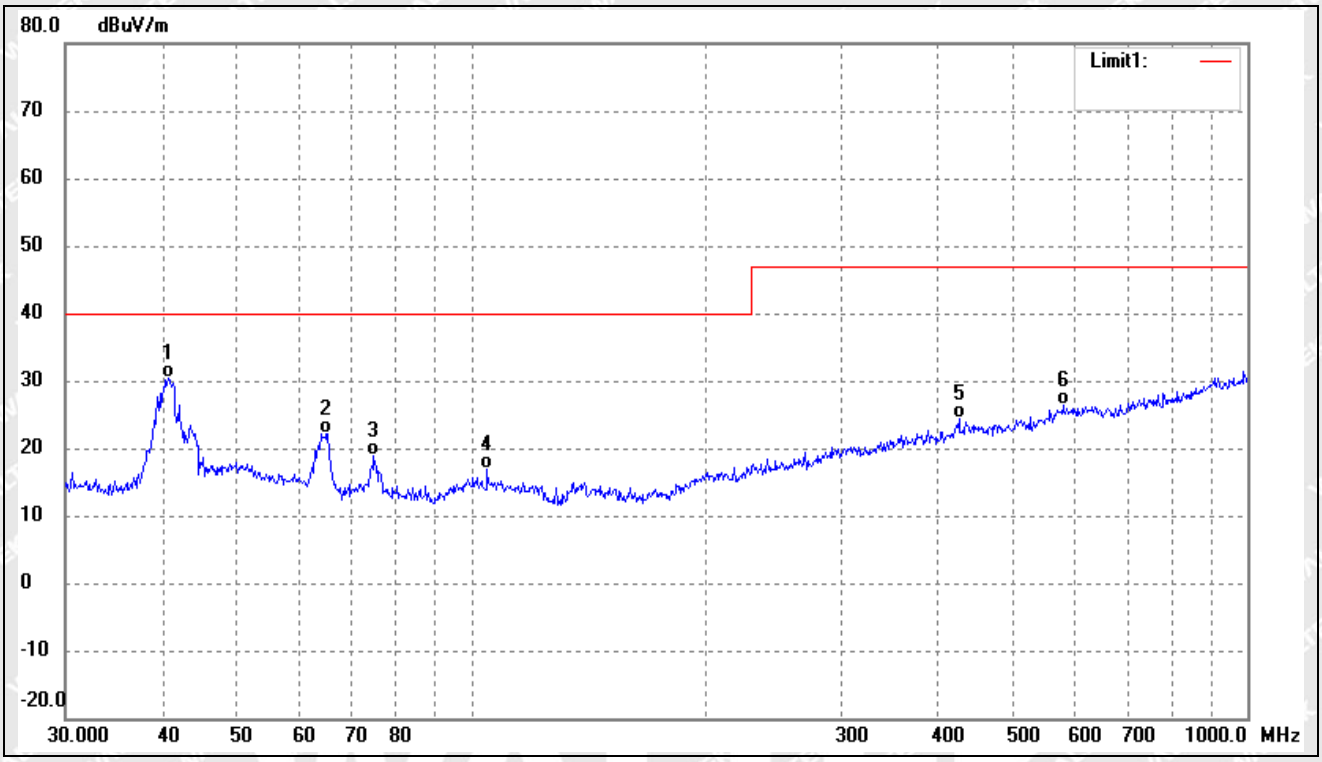
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.8446	40.96	-11.56	29.40	40.00	-10.60	QP
2	64.2074	35.27	-12.92	22.35	40.00	-17.65	QP
3	104.1701	28.47	-12.29	16.18	40.00	-23.82	QP
4	222.9502	34.85	-10.81	24.04	40.00	-15.96	QP
5	463.9696	28.47	-4.85	23.62	47.00	-23.38	QP
6	884.5029	27.72	1.26	28.98	47.00	-18.02	QP

Test mode:	TM1	Polarity:	Vertical



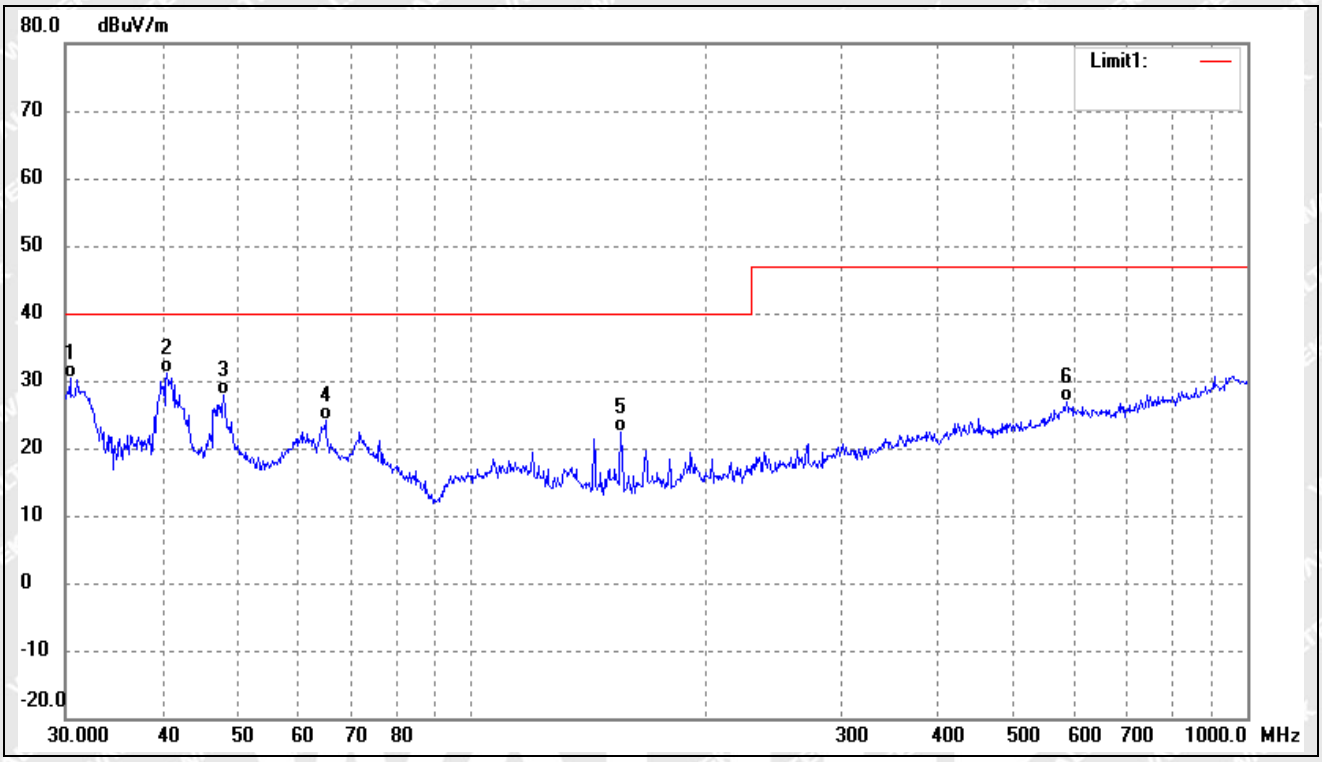
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.4172	42.12	-11.66	30.46	40.00	-9.54	QP
2	64.4331	35.70	-12.94	22.76	40.00	-17.24	QP
3	155.9101	37.14	-14.53	22.61	40.00	-17.39	QP
4	226.8936	38.77	-10.66	28.11	40.00	-11.89	QP
5	437.1199	28.24	-4.40	23.84	47.00	-23.16	QP
6	584.7895	30.25	-2.44	27.81	47.00	-19.19	QP

Test mode:	TM2	Polarity:	Horizontal



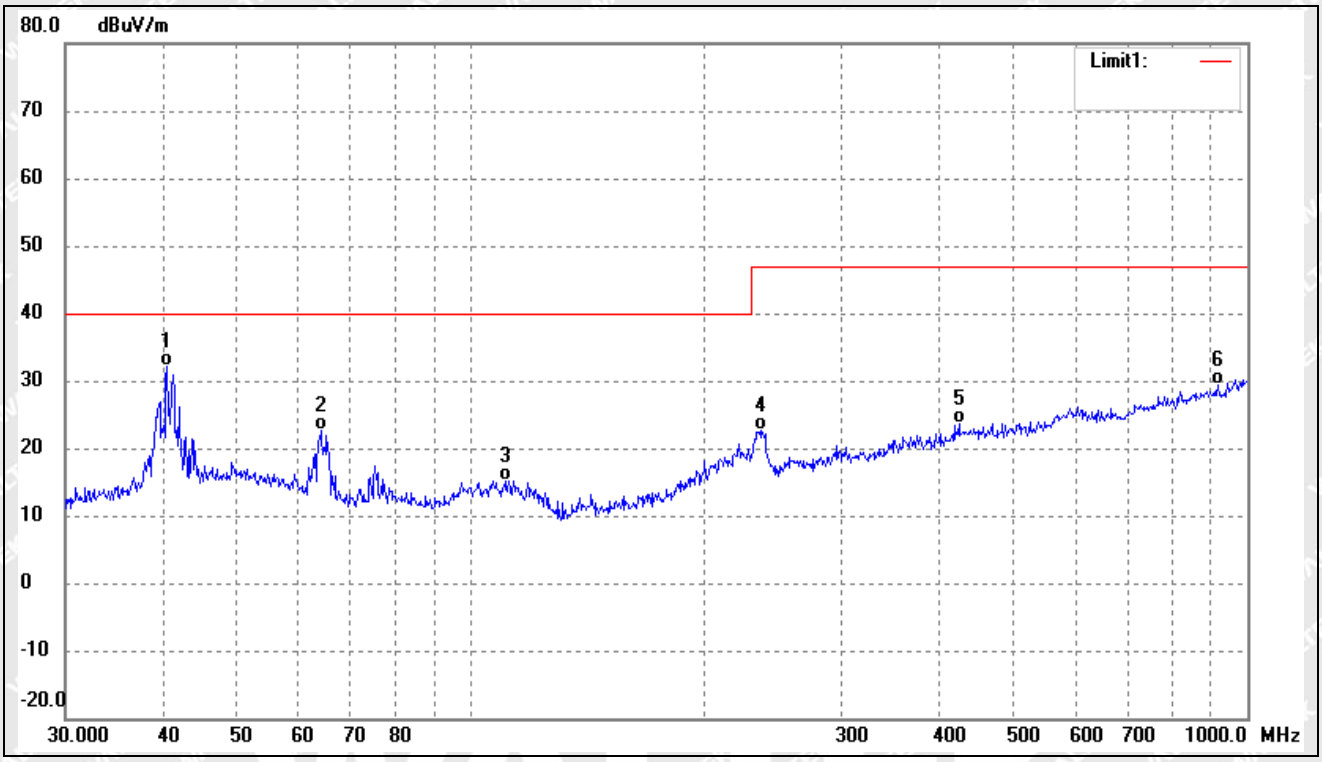
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.7016	41.87	-11.60	30.27	40.00	-9.73	QP
2	65.1145	35.22	-13.04	22.18	40.00	-17.82	QP
3	74.9191	32.81	-13.92	18.89	40.00	-21.11	QP
4	104.9033	29.11	-12.27	16.84	40.00	-23.16	QP
5	425.0280	28.72	-4.38	24.34	47.00	-22.66	QP
6	578.6699	28.99	-2.50	26.49	47.00	-20.51	QP

Test mode:	TM2	Polarity:	Vertical



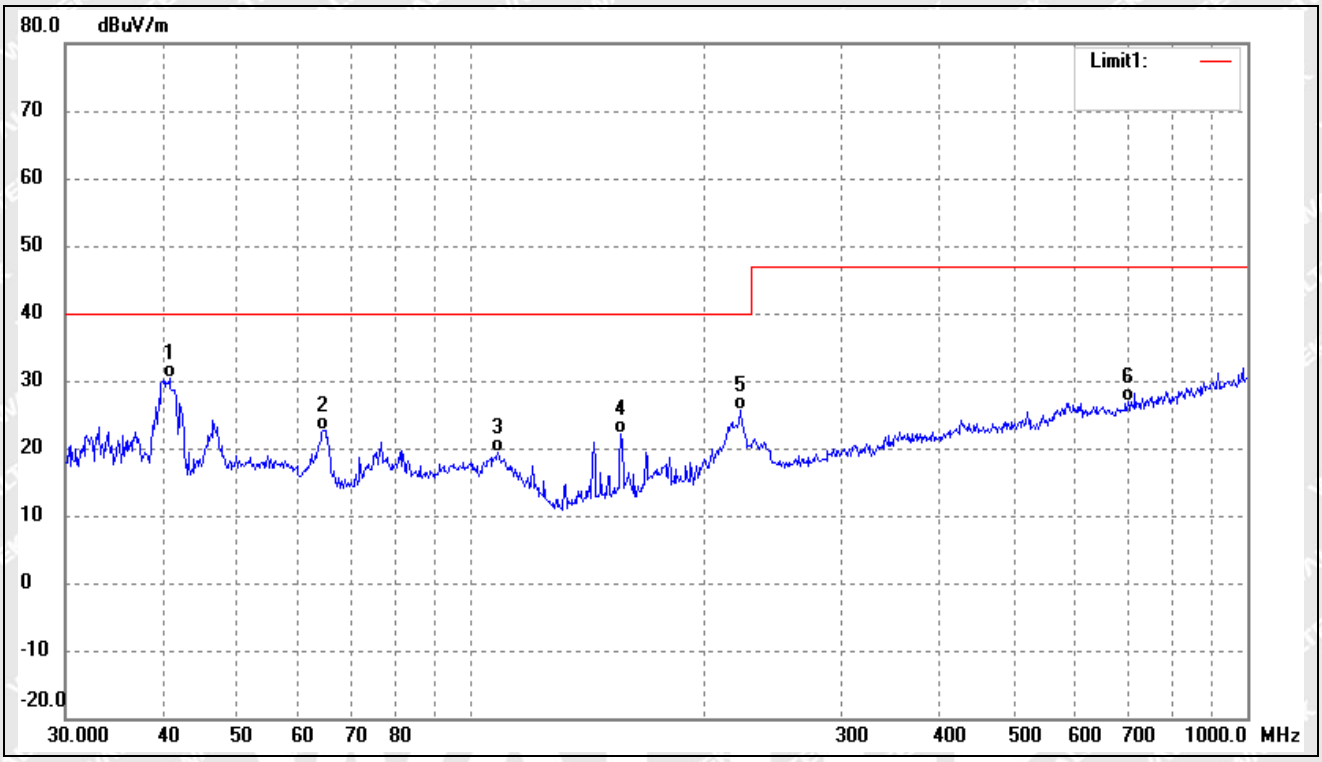
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	30.4238	44.03	-13.77	30.26	40.00	-9.74	QP
2	40.5591	42.67	-11.63	31.04	40.00	-8.96	QP
3	47.9940	38.19	-10.34	27.85	40.00	-12.15	QP
4	64.8865	37.15	-13.00	24.15	40.00	-15.85	QP
5	155.9101	36.97	-14.53	22.44	40.00	-17.56	QP
6	584.7895	29.39	-2.44	26.95	47.00	-20.05	QP

Test mode:	TM3	Polarity:	Horizontal



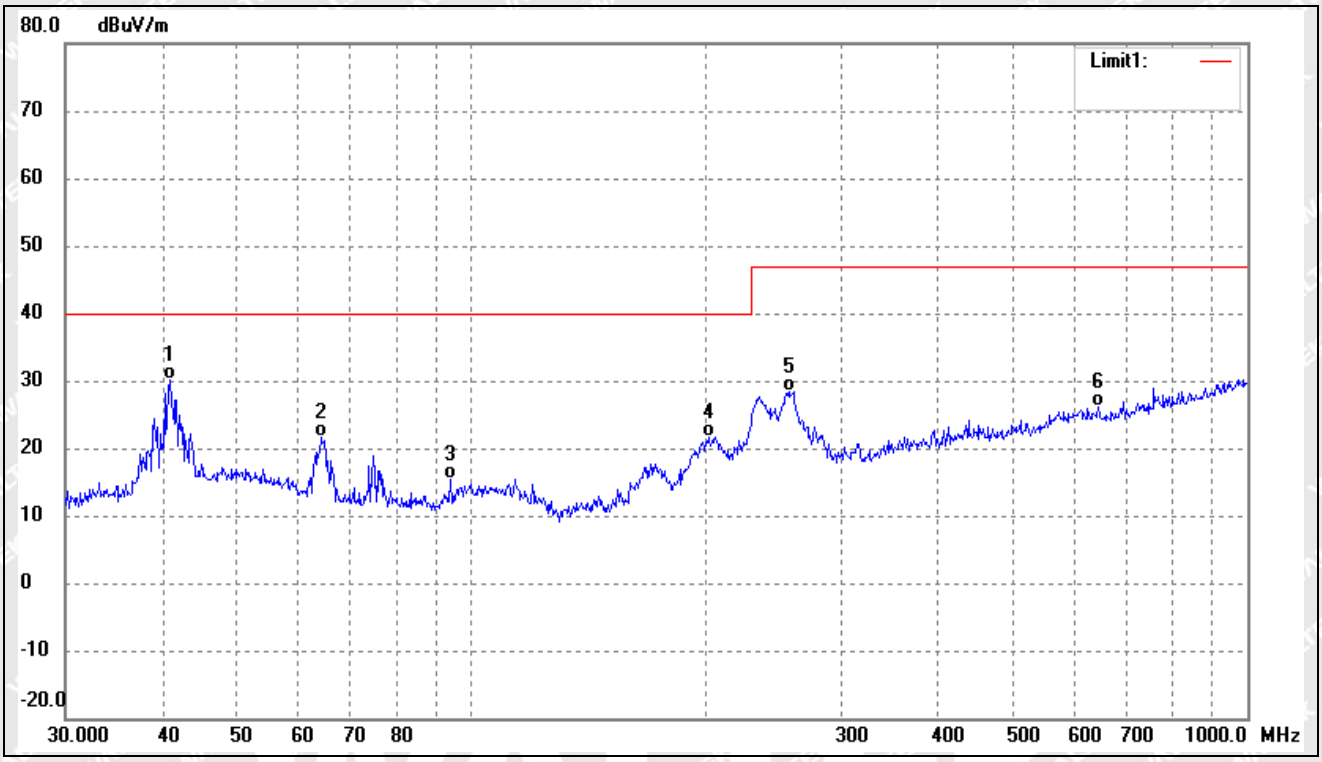
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	40.5591	43.67	-11.63	32.04	40.00	-7.96	QP
2	63.9828	35.51	-12.89	22.62	40.00	-17.38	QP
3	110.9571	27.43	-12.26	15.17	40.00	-24.83	QP
4	236.6447	32.75	-10.09	22.66	47.00	-24.34	QP
5	425.0280	28.09	-4.38	23.71	47.00	-23.29	QP
6	916.0687	27.39	1.88	29.27	47.00	-17.73	QP

Test mode:	TM3	Polarity:	Vertical



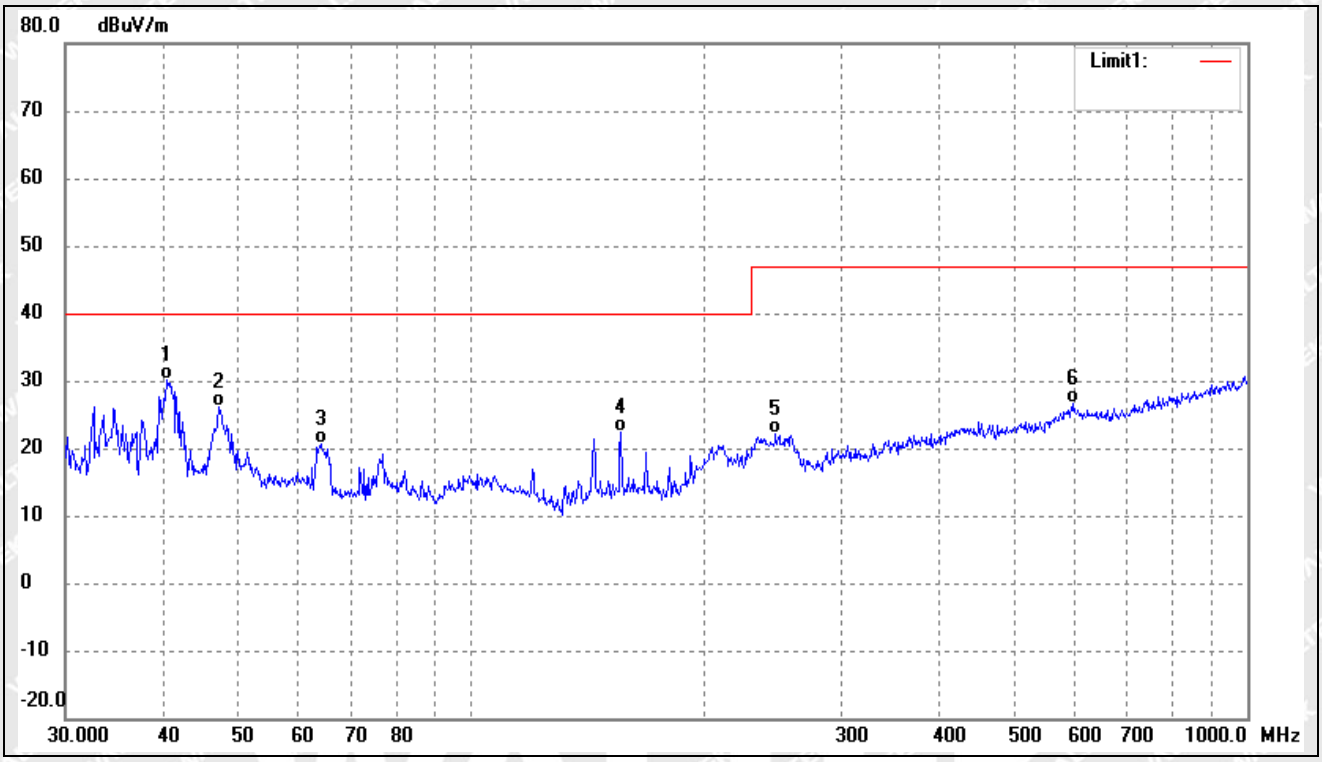
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.8446	41.95	-11.56	30.39	40.00	-9.61	QP
2	64.4331	35.64	-12.94	22.70	40.00	-17.30	QP
3	108.2667	31.48	-12.20	19.28	40.00	-20.72	QP
4	155.9101	36.66	-14.53	22.13	40.00	-17.87	QP
5	222.1698	36.33	-10.82	25.51	40.00	-14.49	QP
6	701.7610	28.89	-2.06	26.83	47.00	-20.17	QP

Test mode:	TM4	Polarity:	Horizontal



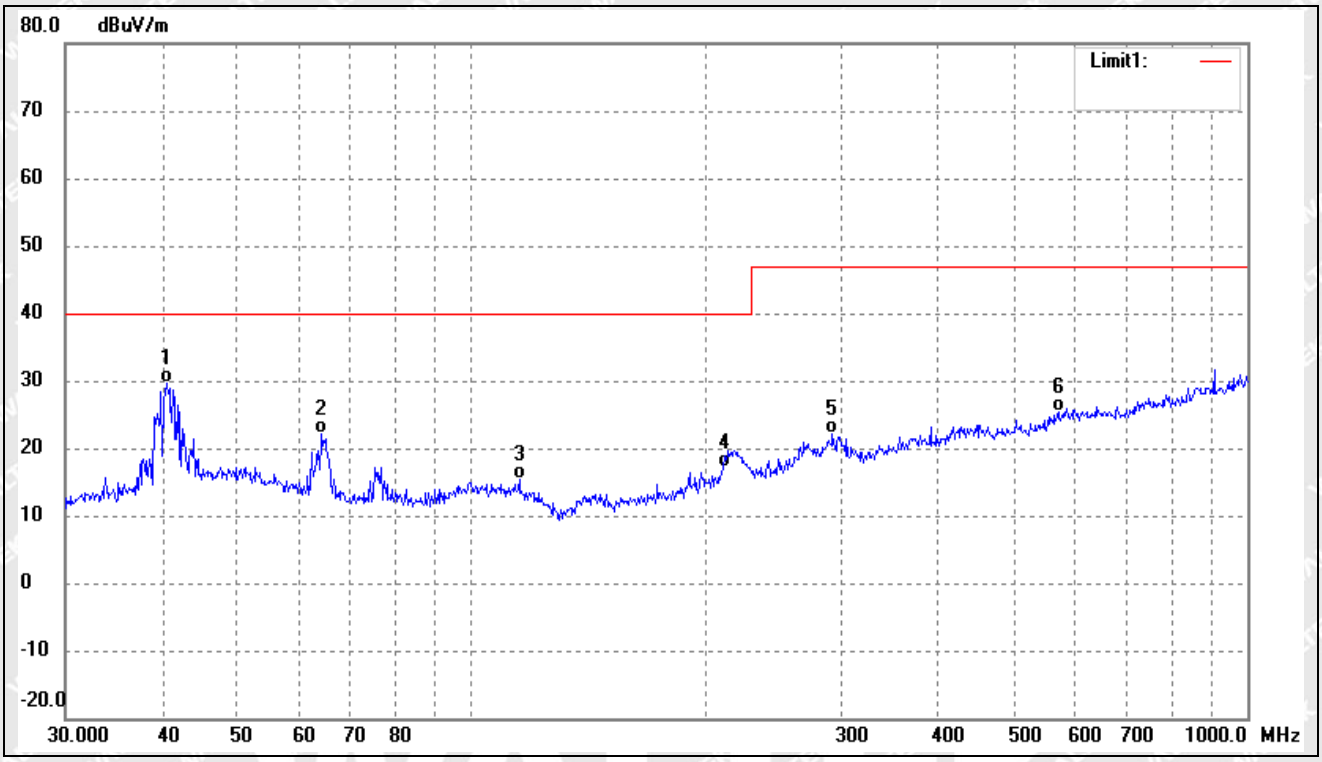
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.9881	41.57	-11.53	30.04	40.00	-9.96	QP
2	63.9828	34.48	-12.89	21.59	40.00	-18.41	QP
3	94.0979	28.96	-13.60	15.36	40.00	-24.64	QP
4	202.1005	32.99	-11.25	21.74	40.00	-18.26	QP
5	257.4222	37.62	-9.12	28.50	47.00	-18.50	QP
6	642.8613	28.65	-2.45	26.20	47.00	-20.80	QP

Test mode:	TM4	Polarity:	Vertical



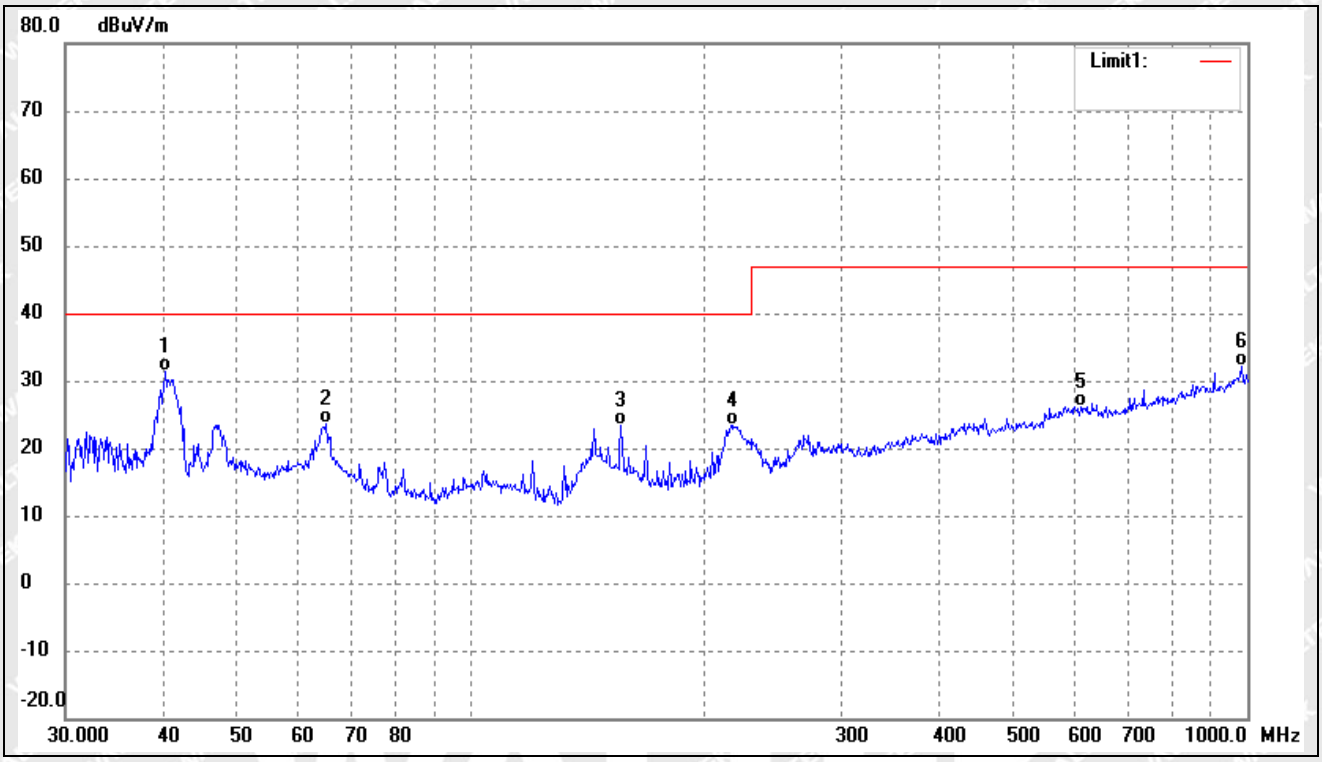
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.5591	41.70	-11.63	30.07	40.00	-9.93	QP
2	47.3255	36.63	-10.39	26.24	40.00	-13.76	QP
3	63.9828	33.57	-12.89	20.68	40.00	-19.32	QP
4	155.9101	36.83	-14.53	22.30	40.00	-17.70	QP
5	246.8149	31.72	-9.49	22.23	47.00	-24.77	QP
6	597.2234	28.88	-2.31	26.57	47.00	-20.43	QP

Test mode:	TM5	Polarity:	Horizontal



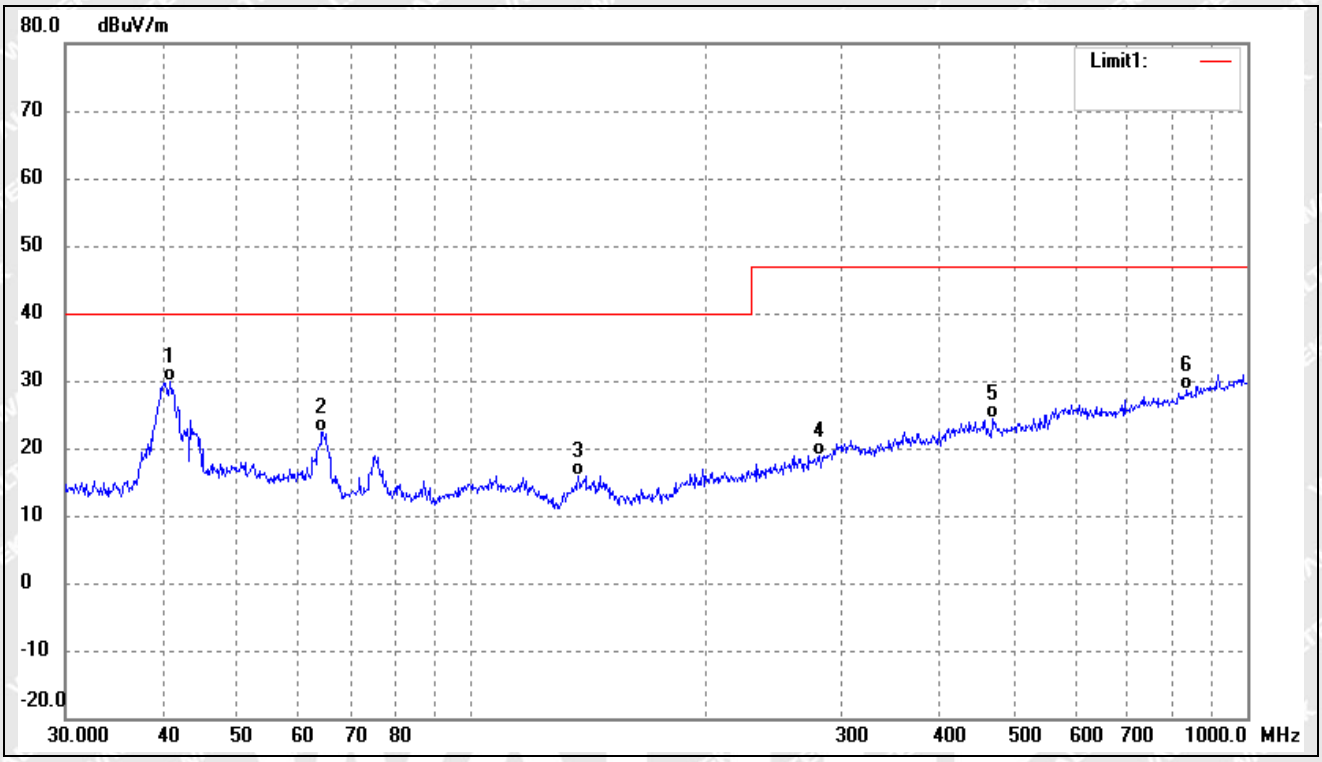
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	40.5591	41.35	-11.63	29.72	40.00	-10.28	QP
2	64.2074	35.13	-12.92	22.21	40.00	-17.79	QP
3	115.3205	28.01	-12.73	15.28	40.00	-24.72	QP
4	211.5265	28.15	-11.06	17.09	40.00	-22.91	QP
5	292.0583	29.89	-7.70	22.19	47.00	-24.81	QP
6	570.6100	28.17	-2.76	25.41	47.00	-21.59	QP

Test mode:	TM5	Polarity:	Vertical



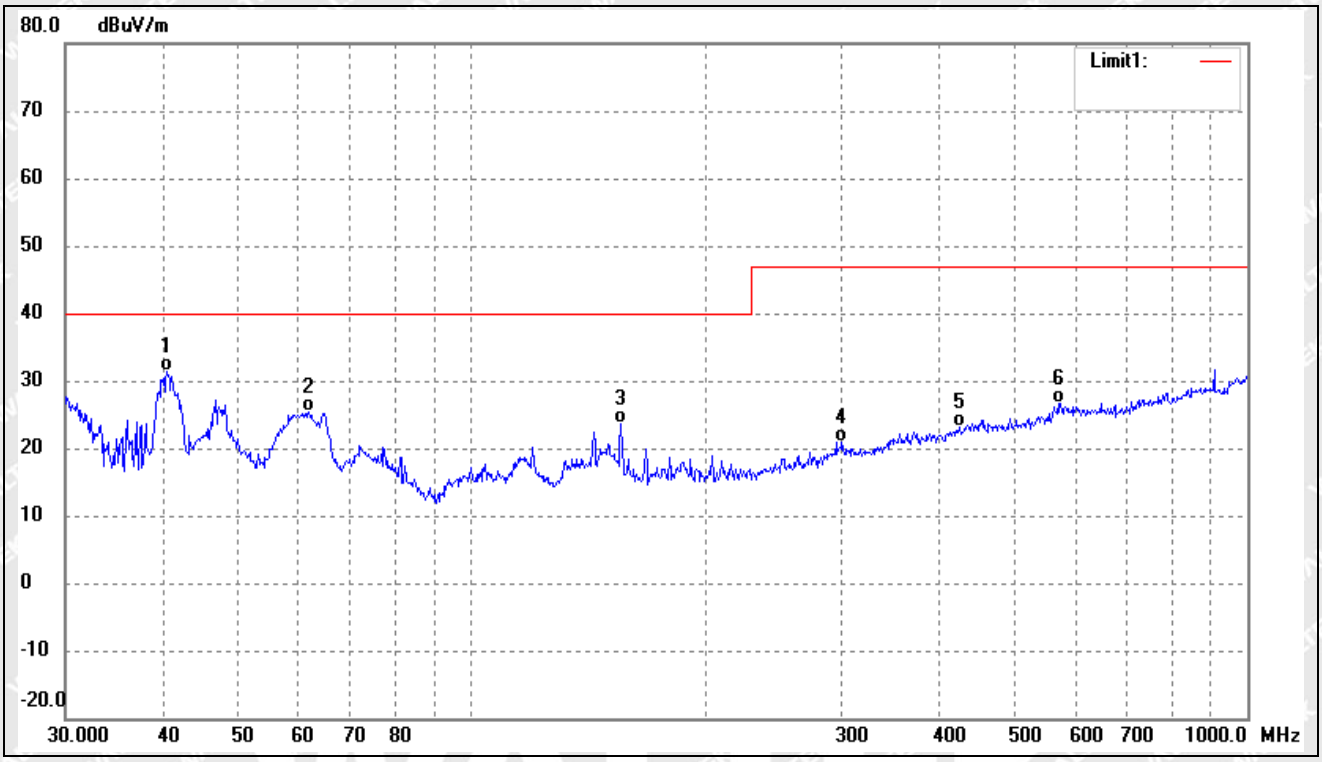
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.4172	42.99	-11.66	31.33	40.00	-8.67	QP
2	65.1145	36.56	-13.04	23.52	40.00	-16.48	QP
3	155.9101	37.79	-14.53	23.26	40.00	-16.74	QP
4	217.5443	34.37	-10.92	23.45	40.00	-16.55	QP
5	609.9217	28.57	-2.33	26.24	47.00	-20.76	QP
6	982.6200	29.37	2.82	32.19	47.00	-14.81	QP

Test mode:	TM6	Polarity:	Horizontal



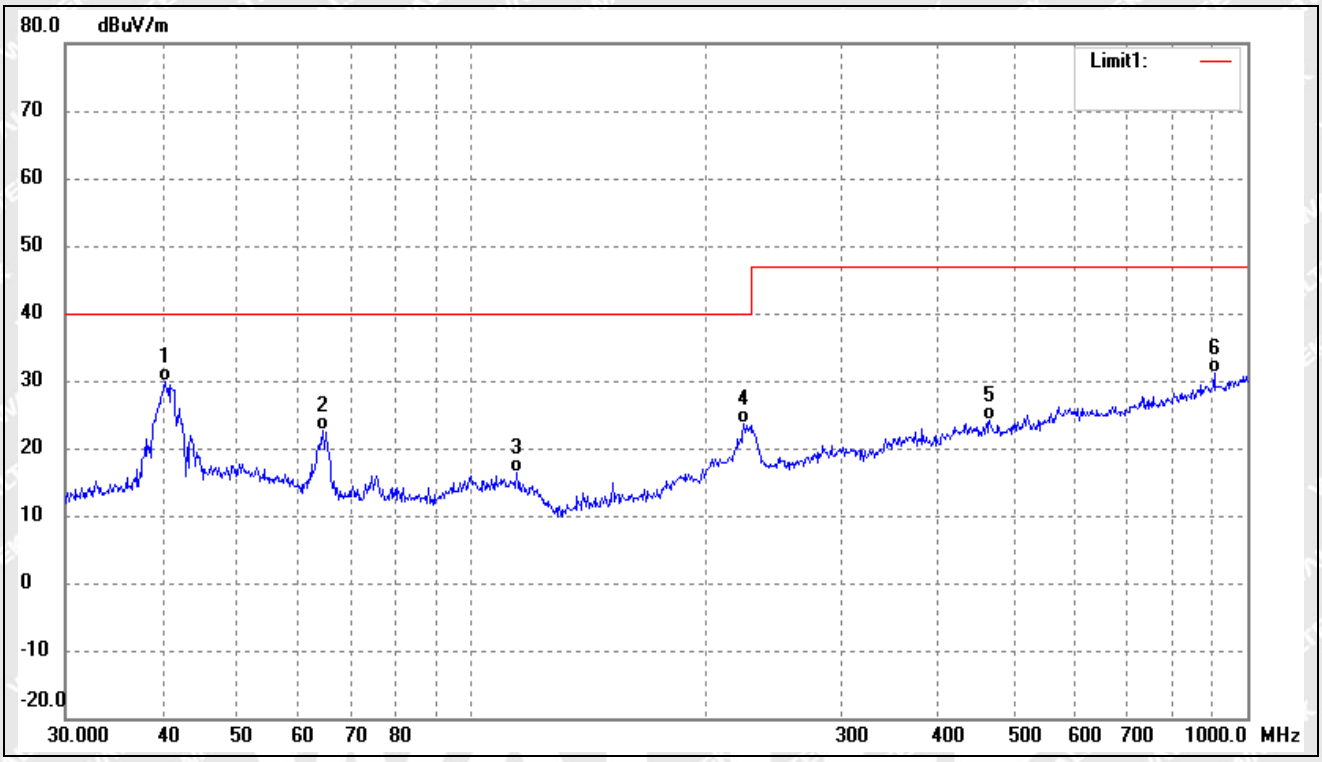
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.9881	41.39	-11.53	29.86	40.00	-10.14	QP
2	64.2074	35.40	-12.92	22.48	40.00	-17.52	QP
3	137.4202	30.68	-14.83	15.85	40.00	-24.15	QP
4	281.0075	27.29	-8.35	18.94	47.00	-28.06	QP
5	470.5232	29.24	-4.85	24.39	47.00	-22.61	QP
6	836.2443	28.16	0.45	28.61	47.00	-18.39	QP

Test mode:	TM6	Polarity:	Vertical



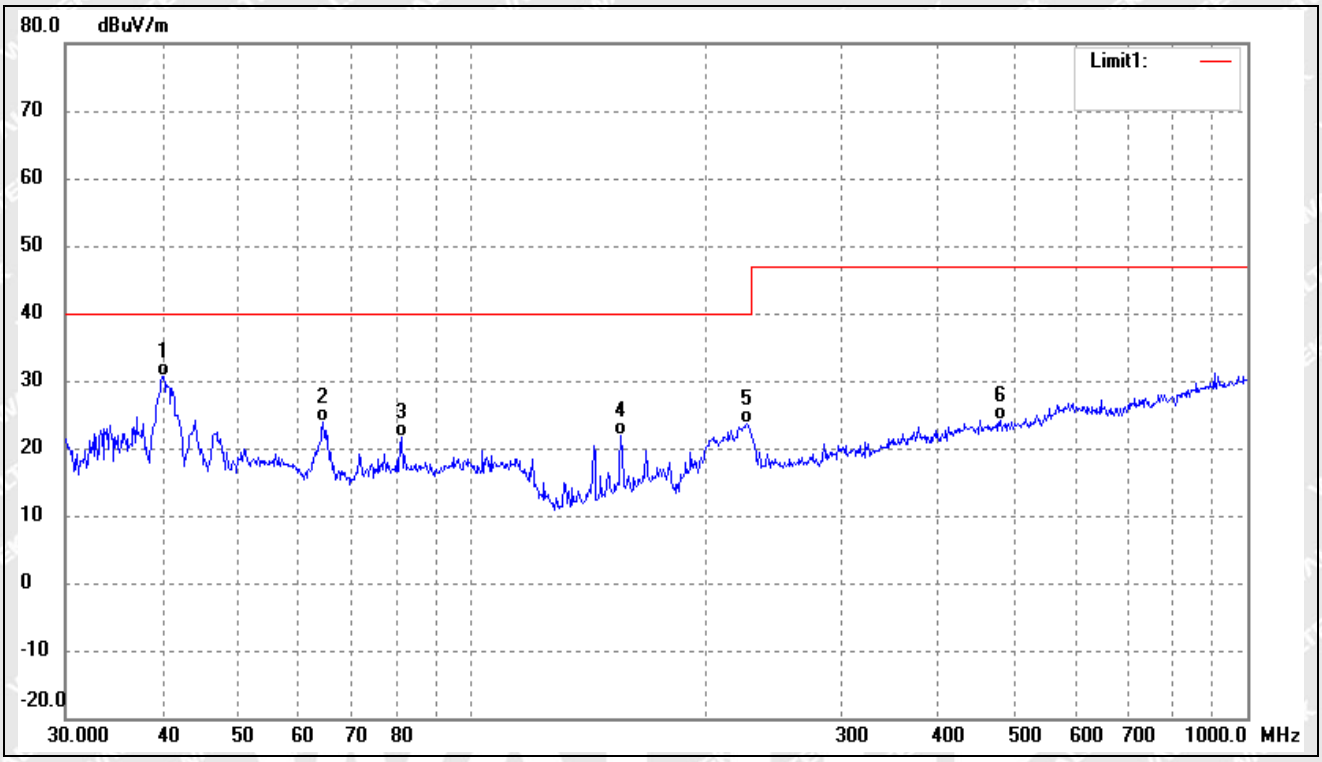
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.5591	42.99	-11.63	31.36	40.00	-8.64	QP
2	61.7781	38.01	-12.60	25.41	40.00	-14.59	QP
3	155.9101	38.13	-14.53	23.60	40.00	-16.40	QP
4	300.3672	28.21	-7.23	20.98	47.00	-26.02	QP
5	426.5210	27.61	-4.38	23.23	47.00	-23.77	QP
6	570.6100	29.47	-2.76	26.71	47.00	-20.29	QP

Test mode:	TM7	Polarity:	Horizontal



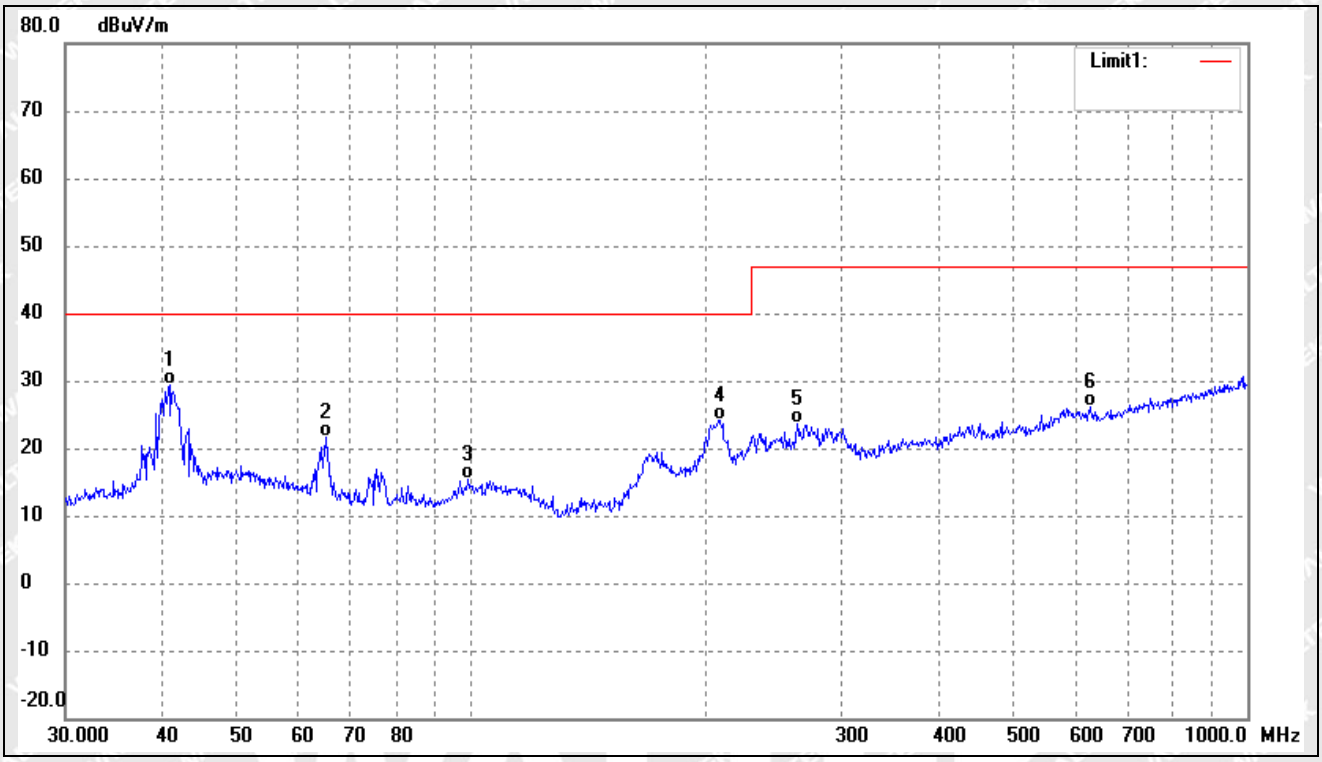
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	40.2757	41.55	-11.70	29.85	40.00	-10.15	QP
2	64.4331	35.67	-12.94	22.73	40.00	-17.27	QP
3	114.5146	29.10	-12.64	16.46	40.00	-23.54	QP
4	224.5193	34.41	-10.77	23.64	40.00	-16.36	QP
5	465.5994	29.08	-4.85	24.23	47.00	-22.77	QP
6	906.4824	29.43	1.70	31.13	47.00	-15.87	QP

Test mode:	TM7	Polarity:	Vertical



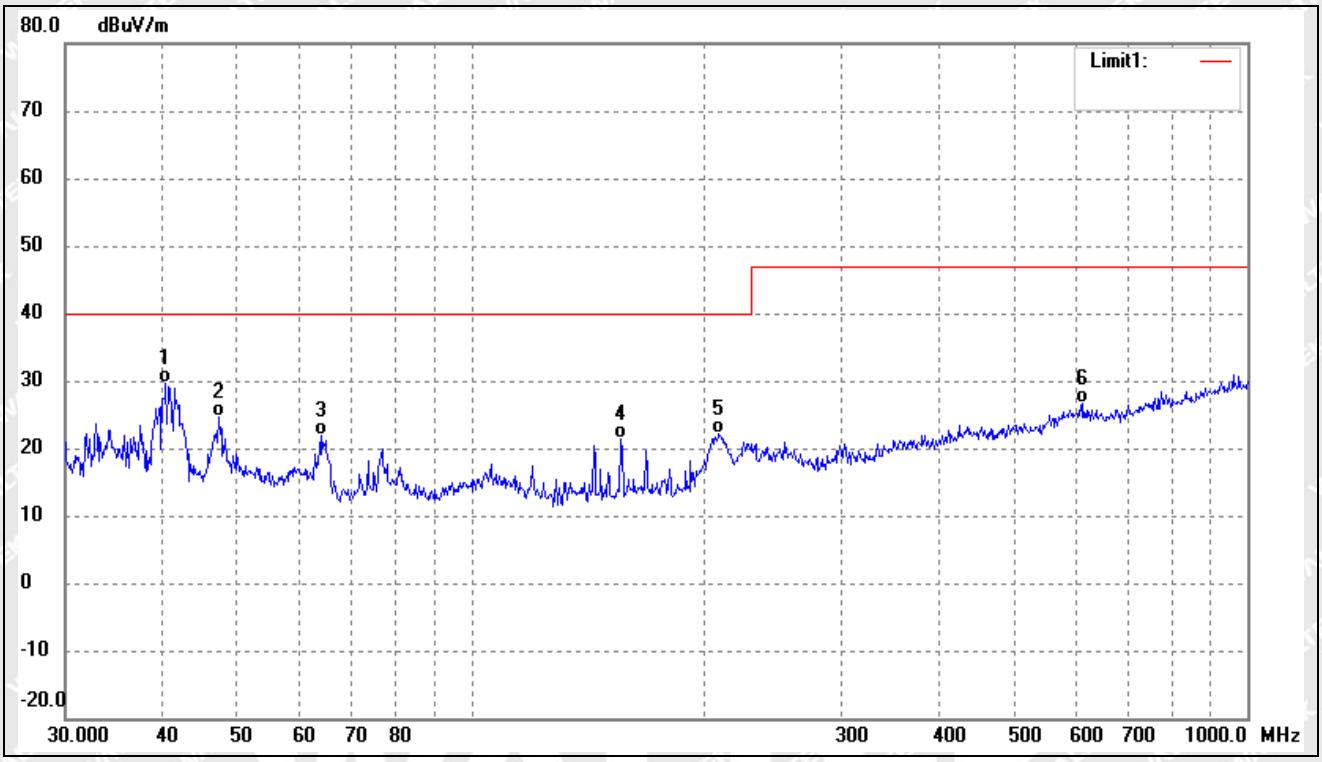
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.1347	42.36	-11.73	30.63	40.00	-9.37	QP
2	64.4331	36.80	-12.94	23.86	40.00	-16.14	QP
3	81.4970	35.98	-14.24	21.74	40.00	-18.26	QP
4	155.9101	36.39	-14.53	21.86	40.00	-18.14	QP
5	226.0994	34.31	-10.70	23.61	40.00	-16.39	QP
6	480.5276	28.73	-4.72	24.01	47.00	-22.99	QP

Test mode:	TM8	Polarity:	Horizontal



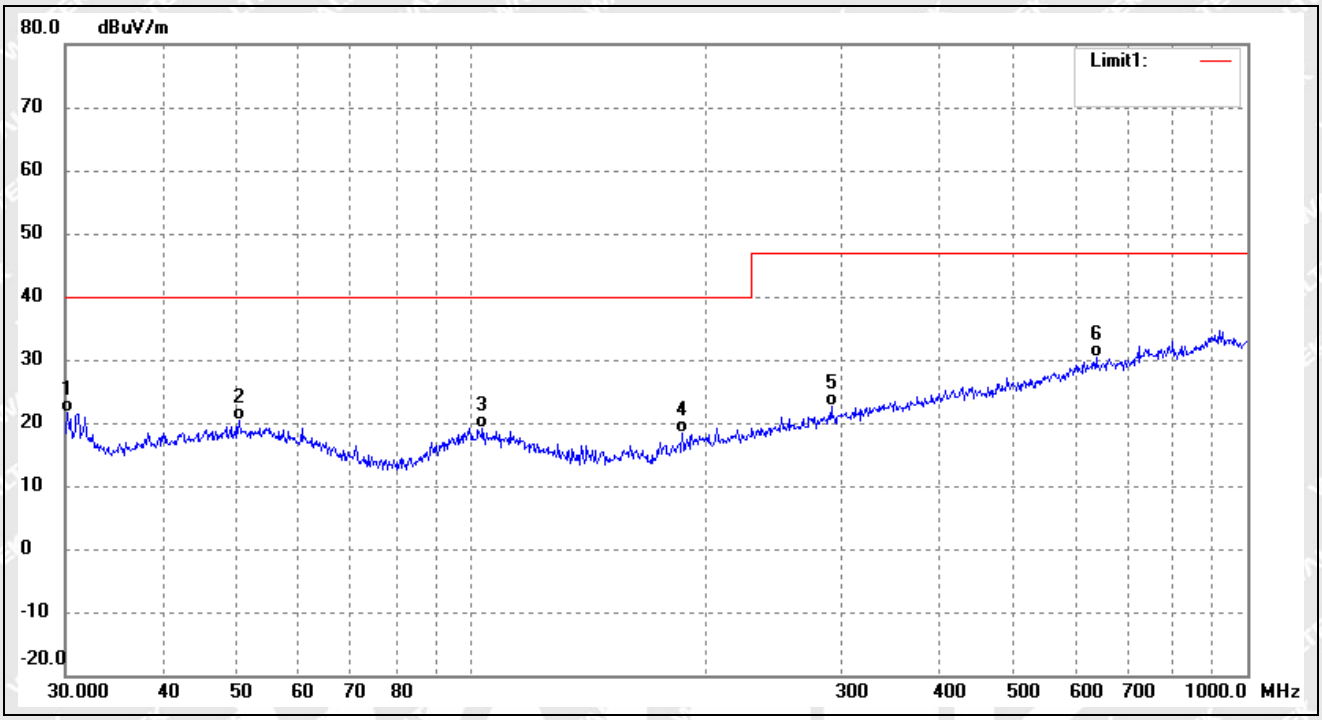
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.8446	40.98	-11.56	29.42	40.00	-10.58	QP
2	65.1145	34.67	-13.04	21.63	40.00	-18.37	QP
3	99.1797	27.83	-12.54	15.29	40.00	-24.71	QP
4	209.3129	35.26	-11.11	24.15	40.00	-15.85	QP
5	262.8955	32.70	-8.99	23.71	47.00	-23.29	QP
6	627.2738	28.46	-2.39	26.07	47.00	-20.93	QP

Test mode:	TM8	Polarity:	Vertical



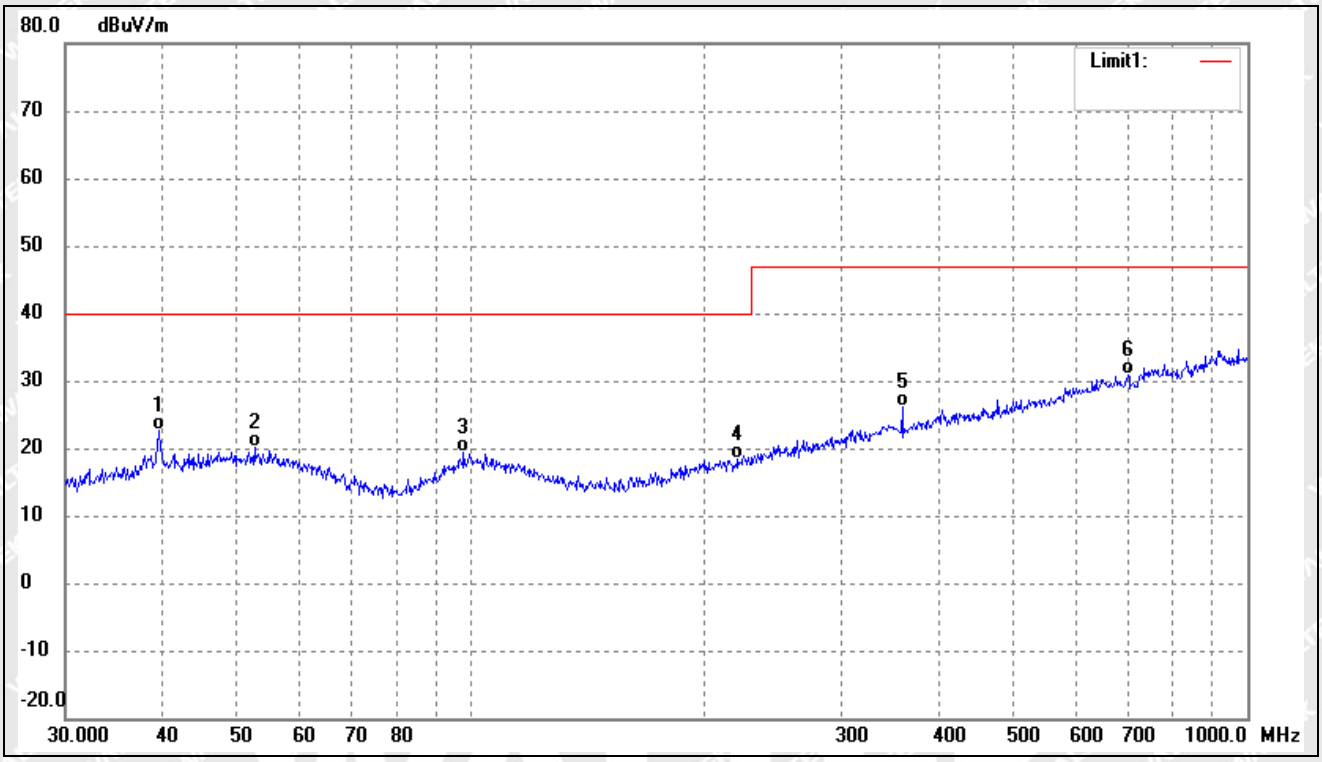
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	40.4172	41.19	-11.66	29.53	40.00	-10.47	QP
2	47.3255	35.05	-10.39	24.66	40.00	-15.34	QP
3	63.9828	34.89	-12.89	22.00	40.00	-18.00	QP
4	155.9101	35.88	-14.53	21.35	40.00	-18.65	QP
5	208.5803	33.26	-11.11	22.15	40.00	-17.85	QP
6	614.2142	28.91	-2.34	26.57	47.00	-20.43	QP

Test mode:	TM9	Polarity:	Horizontal



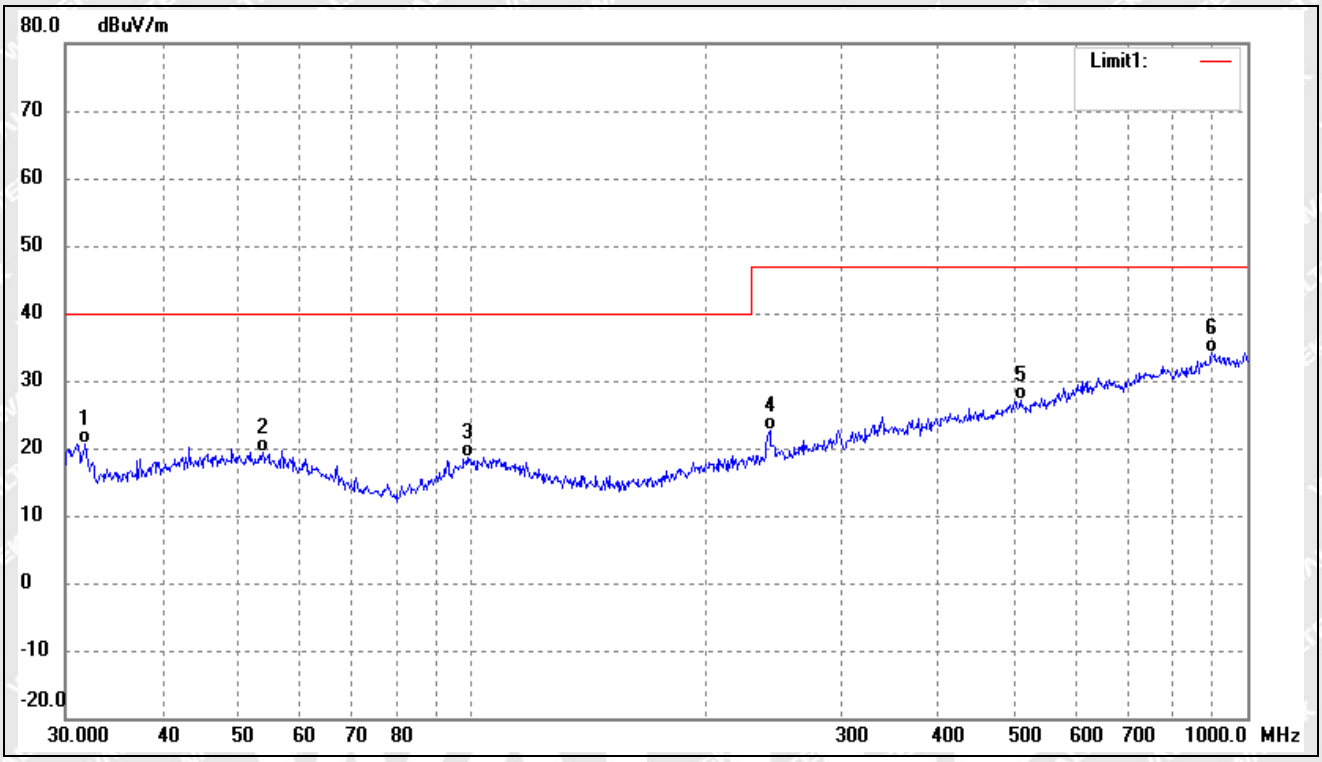
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	30.2111	33.02	-11.46	21.56	40.00	-18.44	QP
2	50.2324	28.25	-7.95	20.30	40.00	-19.70	QP
3	103.4421	27.79	-8.55	19.24	40.00	-20.76	QP
4	187.0956	27.56	-9.15	18.41	40.00	-21.59	QP
5	291.0360	27.63	-5.12	22.51	47.00	-24.49	QP
6	638.3686	28.85	1.58	30.43	47.00	-16.57	QP

Test mode:	TM9	Polarity:	Vertical



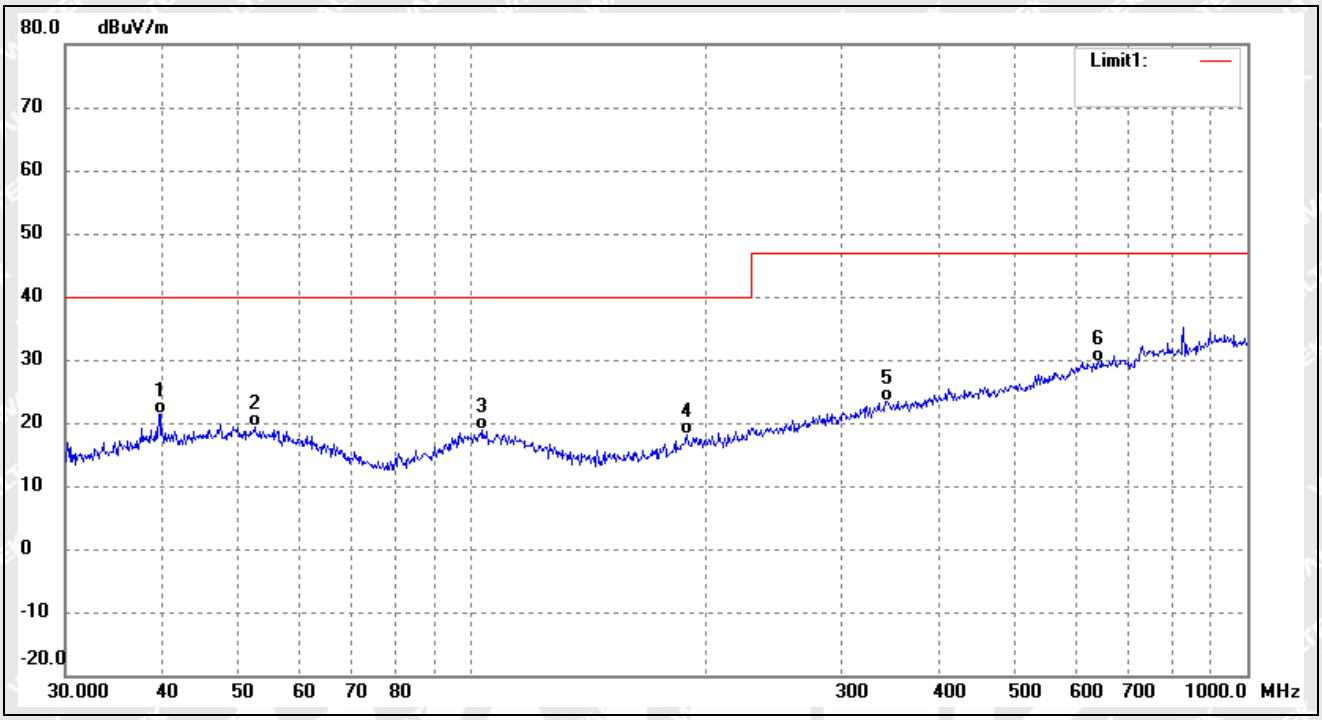
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	39.5757	31.87	-9.32	22.55	40.00	-17.45	QP
2	52.5753	28.02	-8.00	20.02	40.00	-19.98	QP
3	97.7983	28.49	-9.05	19.44	40.00	-20.56	QP
4	220.6171	26.02	-7.75	18.27	40.00	-21.73	QP
5	359.1860	29.87	-3.70	26.17	47.00	-20.83	QP
6	701.7610	52.25	-21.45	30.80	47.00	-16.20	QP

Test mode:	TM10	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	31.8427	31.90	-11.20	20.70	40.00	-19.30	QP
2	53.8818	27.37	-8.08	19.29	40.00	-20.71	QP
3	98.8326	27.54	-8.87	18.67	40.00	-21.33	QP
4	242.5253	29.43	-6.73	22.70	47.00	-24.30	QP
5	510.0436	28.12	-1.11	27.01	47.00	-19.99	QP
6	900.1474	54.73	-20.69	34.04	47.00	-12.96	QP

Test mode:	TM10	Polarity:	Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	39.7146	30.73	-9.29	21.44	40.00	-18.56	QP
2	52.5753	27.33	-8.00	19.33	40.00	-20.67	QP
3	103.4421	27.33	-8.55	18.78	40.00	-21.22	QP
4	189.7385	26.86	-8.85	18.01	40.00	-21.99	QP
5	343.1800	26.98	-3.49	23.49	47.00	-23.51	QP
6	642.8613	27.98	1.71	29.69	47.00	-17.31	QP

5. Harmonic Current Emissions

5.1 Test Procedure

Test is conducted under the description of IEC 61000-3-2.

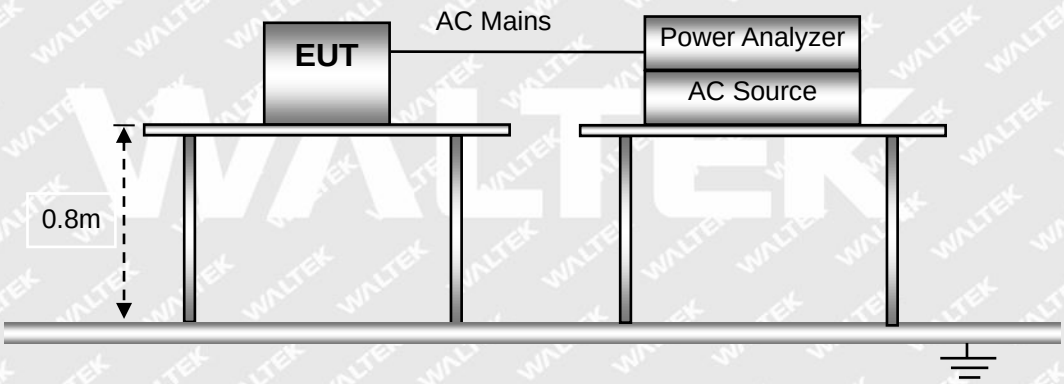
5.2 Test Standards

IEC 61000-3-2, Clause 7.2 Limits for Class A equipment.

5.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

5.4 Basic Test Setup Block Diagram



5.5 Harmonic Current Emissions Test Data

Test mode:	TM1

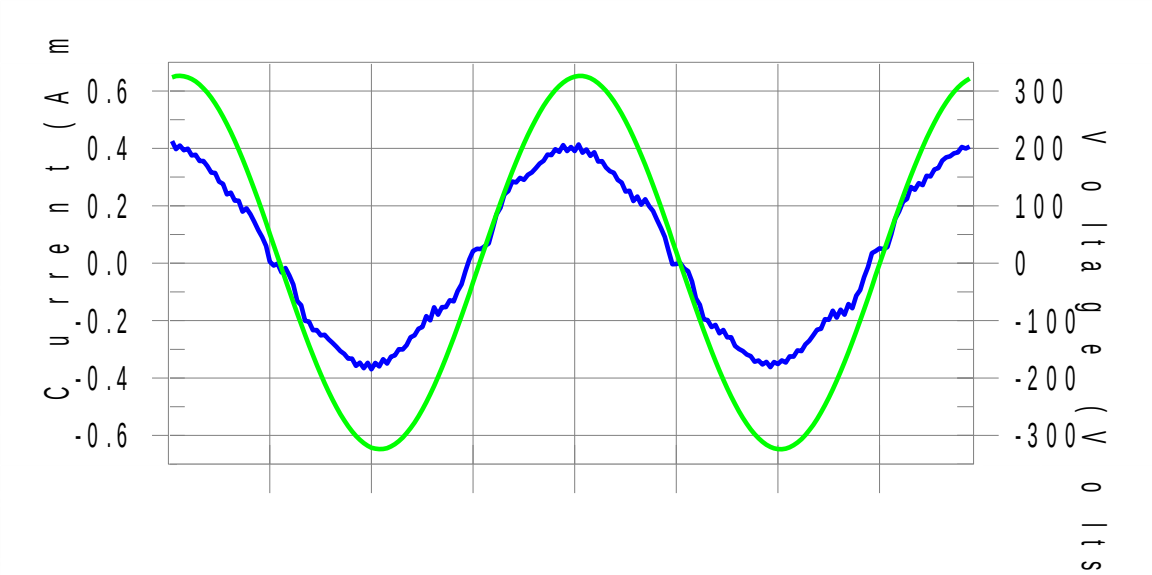
Harmonics – Class-A per IEC 61000-3-2:2018+AMD1:2020(Run time)

Comment: TM1

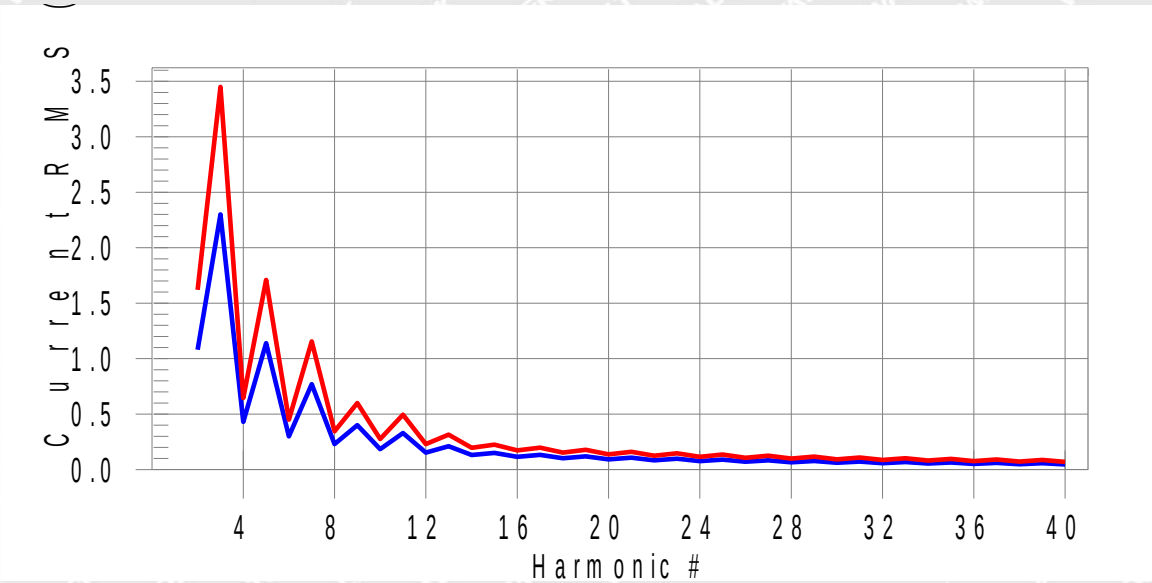
Customer: Customer information

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

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Test result: Pass **Worst harmonics H9-1.5% of 150% limit, H11-2.1% of 100% limit**

Current Test Result Summary (Run time)

Comment: TM1
Customer: Customer information

Test Result: Pass **Source qualification:** Normal
THC(A): 0.016 **I-THD(%):** 6.2 **POHC(A):** 0.002 **POHC Limit(A):** 0.251

Highest parameter values during test:

V_RMS (Volts):	230.10	Frequency(Hz):	50.00
I_Peak (Amps):	0.430	I_RMS (Amps):	0.267
I_Fund (Amps):	0.265	Crest Factor:	1.634
Power (Watts):	60.6	Power Factor:	0.988

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	N/A	0.001	1.620	N/A	Pass
3	0.007	2.300	0.3	0.008	3.450	0.2	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.007	1.140	0.6	0.007	1.710	0.4	Pass
6	0.000	0.300	N/A	0.001	0.450	N/A	Pass
7	0.003	0.770	N/A	0.004	1.155	N/A	Pass
8	0.000	0.230	N/A	0.000	0.345	N/A	Pass
9	0.009	0.400	2.1	0.009	0.600	1.5	Pass
10	0.000	0.184	N/A	0.000	0.276	N/A	Pass
11	0.007	0.330	2.1	0.007	0.495	1.4	Pass
12	0.000	0.153	N/A	0.000	0.230	N/A	Pass
13	0.004	0.210	N/A	0.004	0.315	N/A	Pass
14	0.000	0.131	N/A	0.000	0.197	N/A	Pass
15	0.003	0.150	N/A	0.003	0.225	N/A	Pass
16	0.000	0.115	N/A	0.000	0.173	N/A	Pass
17	0.002	0.132	N/A	0.002	0.198	N/A	Pass
18	0.000	0.102	N/A	0.000	0.153	N/A	Pass
19	0.001	0.118	N/A	0.001	0.178	N/A	Pass
20	0.000	0.092	N/A	0.000	0.138	N/A	Pass
21	0.000	0.107	N/A	0.001	0.161	N/A	Pass
22	0.000	0.084	N/A	0.000	0.125	N/A	Pass
23	0.000	0.098	N/A	0.000	0.147	N/A	Pass
24	0.000	0.077	N/A	0.000	0.115	N/A	Pass
25	0.001	0.090	N/A	0.001	0.135	N/A	Pass
26	0.000	0.071	N/A	0.000	0.107	N/A	Pass
27	0.001	0.083	N/A	0.001	0.125	N/A	Pass
28	0.000	0.066	N/A	0.000	0.099	N/A	Pass

29	0.001	0.078	N/A	0.001	0.116	N/A	Pass
30	0.000	0.061	N/A	0.000	0.092	N/A	Pass
31	0.001	0.073	N/A	0.001	0.109	N/A	Pass
32	0.000	0.058	N/A	0.000	0.086	N/A	Pass
33	0.001	0.068	N/A	0.001	0.102	N/A	Pass
34	0.000	0.054	N/A	0.000	0.081	N/A	Pass
35	0.001	0.064	N/A	0.001	0.096	N/A	Pass
36	0.000	0.051	N/A	0.000	0.077	N/A	Pass
37	0.001	0.061	N/A	0.001	0.091	N/A	Pass
38	0.000	0.048	N/A	0.000	0.073	N/A	Pass
39	0.001	0.058	N/A	0.001	0.087	N/A	Pass
40	0.000	0.046	N/A	0.000	0.069	N/A	Pass

Voltage Source Verification Data (Run time)

Comment: TM1
Customer: Customer information

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

Highest parameter values during test:

Voltage (Vrms):	230.10	Frequency(Hz):	50.00
I_Peak (Amps):	0.430	I_RMS (Amps):	0.267
I_Fund (Amps):	0.265	Crest Factor:	1.634
Power (Watts):	60.6	Power Factor:	0.988

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.056	0.460	12.18	OK
3	0.512	2.070	24.72	OK
4	0.076	0.460	16.43	OK
5	0.066	0.920	7.17	OK
6	0.037	0.460	8.10	OK
7	0.033	0.690	4.72	OK
8	0.015	0.460	3.20	OK
9	0.013	0.460	2.83	OK
10	0.011	0.460	2.42	OK
11	0.012	0.230	5.07	OK
12	0.010	0.230	4.33	OK
13	0.011	0.230	4.98	OK
14	0.007	0.230	3.20	OK
15	0.011	0.230	4.97	OK
16	0.008	0.230	3.34	OK
17	0.012	0.230	5.24	OK
18	0.011	0.230	4.74	OK
19	0.010	0.230	4.31	OK
20	0.015	0.230	6.68	OK
21	0.008	0.230	3.39	OK
22	0.004	0.230	1.76	OK
23	0.005	0.230	2.29	OK
24	0.004	0.230	1.60	OK
25	0.004	0.230	1.76	OK
26	0.003	0.230	1.43	OK
27	0.006	0.230	2.71	OK
28	0.005	0.230	2.25	OK
29	0.006	0.230	2.64	OK

30	**0.003**	**0.230**	**1.48**	**OK**
31	**0.004**	**0.230**	**1.84**	**OK**
32	**0.003**	**0.230**	**1.49**	**OK**
33	**0.006**	**0.230**	**2.52**	**OK**
34	**0.002**	**0.230**	**1.01**	**OK**
35	**0.004**	**0.230**	**1.58**	**OK**
36	**0.003**	**0.230**	**1.19**	**OK**
37	**0.005**	**0.230**	**2.03**	**OK**
38	**0.002**	**0.230**	**1.08**	**OK**
39	**0.005**	**0.230**	**2.15**	**OK**
40	**0.008**	**0.230**	**3.29**	**OK**

Test mode:	TM2

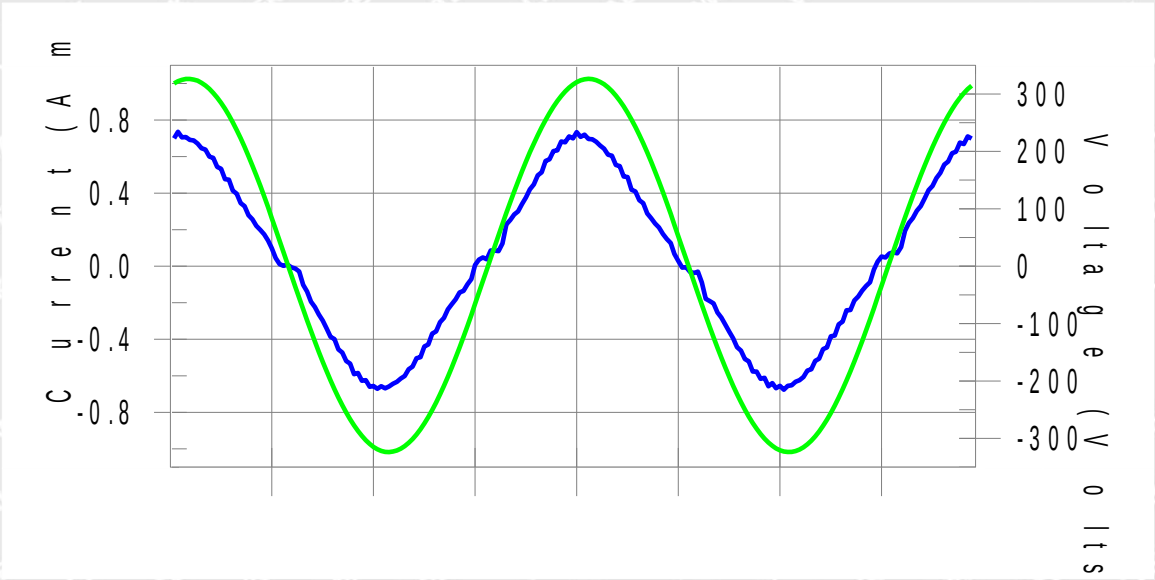
Harmonics – Class-A per IEC 61000-3-2:2018+AMD1:2020(Run time)

Comment: TM2

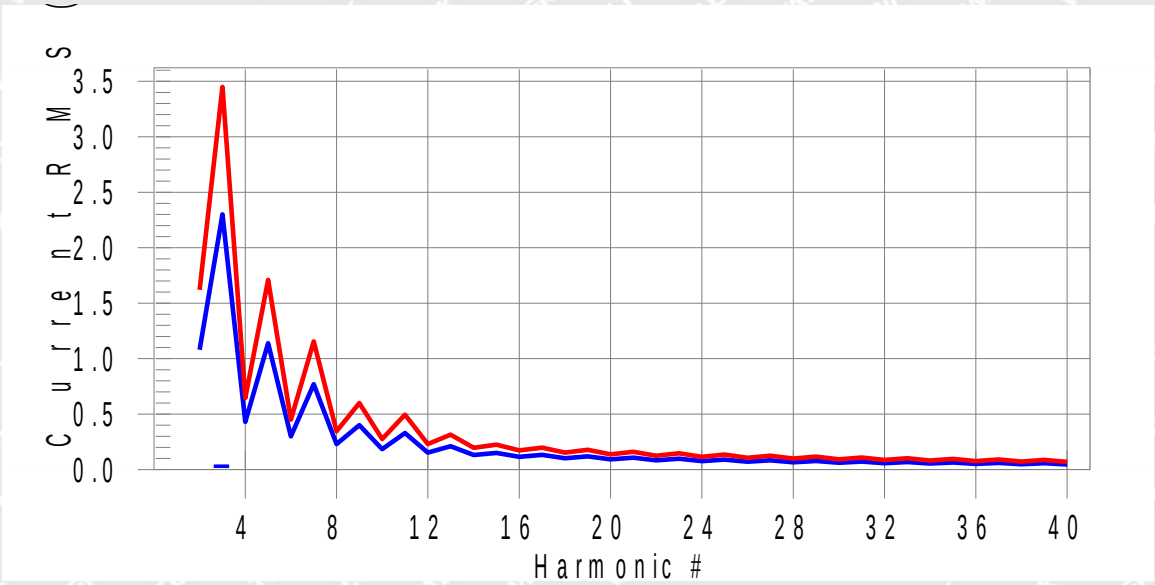
Customer: Customer information

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

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Test result: Pass **Worst harmonics H13-1.9% of 150% limit, H13-2.8% of 100% limit**

Current Test Result Summary (Run time)

Comment: TM2
Customer: Customer information

Test Result: Pass **Source qualification:** Normal
THC(A): 0.045 **I-THD(%):** 10.0 **POHC(A):** 0.005 **POHC Limit(A):** 0.251

Highest parameter values during test:

V_RMS (Volts):	230.08	Frequency(Hz):	50.00
I_Peak (Amps):	0.744	I_RMS (Amps):	0.453
I_Fund (Amps):	0.450	Crest Factor:	1.649
Power (Watts):	103.0	Power Factor:	0.989

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	N/A	0.001	1.620	N/A	Pass
3	0.043	2.300	1.9	0.044	3.450	1.3	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.005	1.140	0.5	0.005	1.710	0.3	Pass
6	0.000	0.300	N/A	0.000	0.450	N/A	Pass
7	0.004	0.770	N/A	0.005	1.155	N/A	Pass
8	0.000	0.230	N/A	0.000	0.345	N/A	Pass
9	0.005	0.400	1.4	0.006	0.600	1.0	Pass
10	0.000	0.184	N/A	0.000	0.276	N/A	Pass
11	0.006	0.330	1.9	0.006	0.495	1.3	Pass
12	0.000	0.153	N/A	0.000	0.230	N/A	Pass
13	0.006	0.210	2.8	0.006	0.315	1.9	Pass
14	0.000	0.131	N/A	0.000	0.197	N/A	Pass
15	0.005	0.150	N/A	0.005	0.225	N/A	Pass
16	0.000	0.115	N/A	0.000	0.173	N/A	Pass
17	0.003	0.132	N/A	0.003	0.198	N/A	Pass
18	0.000	0.102	N/A	0.000	0.153	N/A	Pass
19	0.001	0.118	N/A	0.001	0.178	N/A	Pass
20	0.000	0.092	N/A	0.000	0.138	N/A	Pass
21	0.001	0.107	N/A	0.001	0.161	N/A	Pass
22	0.000	0.084	N/A	0.000	0.125	N/A	Pass
23	0.002	0.098	N/A	0.002	0.147	N/A	Pass
24	0.000	0.077	N/A	0.000	0.115	N/A	Pass
25	0.002	0.090	N/A	0.002	0.135	N/A	Pass
26	0.000	0.071	N/A	0.000	0.107	N/A	Pass
27	0.002	0.083	N/A	0.002	0.125	N/A	Pass
28	0.000	0.066	N/A	0.000	0.099	N/A	Pass

29	0.002	0.078	N/A	0.002	0.116	N/A	Pass
30	0.000	0.061	N/A	0.000	0.092	N/A	Pass
31	0.002	0.073	N/A	0.002	0.109	N/A	Pass
32	0.000	0.058	N/A	0.000	0.086	N/A	Pass
33	0.001	0.068	N/A	0.001	0.102	N/A	Pass
34	0.000	0.054	N/A	0.000	0.081	N/A	Pass
35	0.001	0.064	N/A	0.001	0.096	N/A	Pass
36	0.000	0.051	N/A	0.000	0.077	N/A	Pass
37	0.001	0.061	N/A	0.001	0.091	N/A	Pass
38	0.000	0.048	N/A	0.000	0.073	N/A	Pass
39	0.000	0.058	N/A	0.001	0.087	N/A	Pass
40	0.000	0.046	N/A	0.000	0.069	N/A	Pass

Voltage Source Verification Data (Run time)

Comment: TM2
Customer: Customer information

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

Highest parameter values during test:

Voltage (Vrms):	230.08	Frequency(Hz):	50.00
I_Peak (Amps):	0.744	I_RMS (Amps):	0.453
I_Fund (Amps):	0.450	Crest Factor:	1.649
Power (Watts):	103.0	Power Factor:	0.989

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.066	0.460	14.34	OK
3	0.517	2.071	24.97	OK
4	0.076	0.460	16.50	OK
5	0.065	0.920	7.02	OK
6	0.037	0.460	8.09	OK
7	0.031	0.690	4.43	OK
8	0.014	0.460	3.02	OK
9	0.011	0.460	2.32	OK
10	0.011	0.460	2.48	OK
11	0.011	0.230	4.87	OK
12	0.010	0.230	4.23	OK
13	0.010	0.230	4.26	OK
14	0.007	0.230	2.94	OK
15	0.010	0.230	4.17	OK
16	0.008	0.230	3.31	OK
17	0.012	0.230	5.25	OK
18	0.010	0.230	4.34	OK
19	0.011	0.230	4.80	OK
20	0.015	0.230	6.63	OK
21	0.008	0.230	3.68	OK
22	0.003	0.230	1.47	OK
23	0.005	0.230	2.36	OK
24	0.003	0.230	1.39	OK
25	0.005	0.230	2.30	OK
26	0.003	0.230	1.49	OK
27	0.006	0.230	2.73	OK
28	0.005	0.230	2.08	OK
29	0.006	0.230	2.61	OK

30	**0.003**	**0.230**	**1.52**	**OK**
31	**0.005**	**0.230**	**2.28**	**OK**
32	**0.003**	**0.230**	**1.11**	**OK**
33	**0.005**	**0.230**	**2.19**	**OK**
34	**0.002**	**0.230**	**1.05**	**OK**
35	**0.003**	**0.230**	**1.45**	**OK**
36	**0.003**	**0.230**	**1.13**	**OK**
37	**0.004**	**0.230**	**1.63**	**OK**
38	**0.002**	**0.230**	**1.08**	**OK**
39	**0.005**	**0.230**	**2.05**	**OK**
40	**0.008**	**0.230**	**3.41**	**OK**

Test mode:	TM3

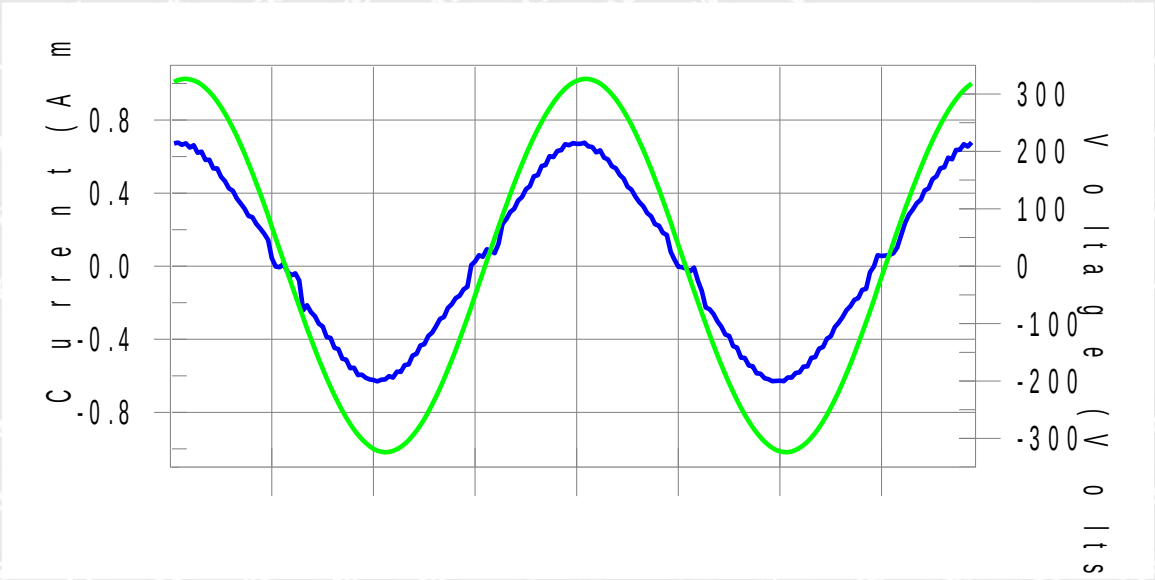
Harmonics – Class-A per IEC 61000-3-2:2018+AMD1:2020(Run time)

Comment: TM3

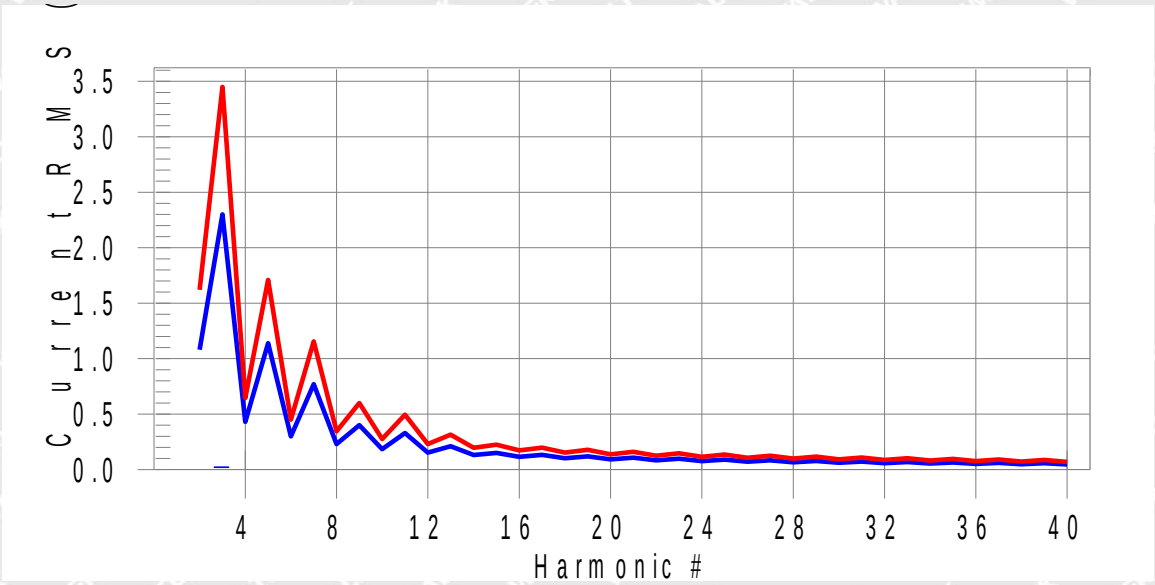
Customer: Customer information

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

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Test result: Pass **Worst harmonics H15-2.8% of 150% limit, H15-4% of 100% limit**

Current Test Result Summary (Run time)

Comment: TM3
Customer: Customer information

Test Result: Pass **Source qualification:** Normal
THC(A): 0.030 **I-THD(%):** 6.8 **POHC(A):** 0.006 **POHC Limit(A):** 0.251

Highest parameter values during test:

V_RMS (Volts):	230.09	Frequency(Hz):	50.00
I_Peak (Amps):	0.700	I_RMS (Amps):	0.440
I_Fund (Amps):	0.438	Crest Factor:	1.601
Power (Watts):	100.3	Power Factor:	0.992

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	N/A	0.001	1.620	N/A	Pass
3	0.024	2.300	1.0	0.025	3.450	0.7	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.002	1.140	N/A	0.002	1.710	N/A	Pass
6	0.000	0.300	N/A	0.000	0.450	N/A	Pass
7	0.005	0.770	N/A	0.005	1.155	N/A	Pass
8	0.000	0.230	N/A	0.000	0.345	N/A	Pass
9	0.008	0.400	2.0	0.008	0.600	1.3	Pass
10	0.000	0.184	N/A	0.000	0.276	N/A	Pass
11	0.009	0.330	2.7	0.009	0.495	1.8	Pass
12	0.000	0.153	N/A	0.000	0.230	N/A	Pass
13	0.008	0.210	3.9	0.008	0.315	2.6	Pass
14	0.000	0.131	N/A	0.000	0.197	N/A	Pass
15	0.006	0.150	4.0	0.006	0.225	2.8	Pass
16	0.000	0.115	N/A	0.000	0.173	N/A	Pass
17	0.003	0.132	N/A	0.004	0.198	N/A	Pass
18	0.000	0.102	N/A	0.000	0.153	N/A	Pass
19	0.001	0.118	N/A	0.001	0.178	N/A	Pass
20	0.000	0.092	N/A	0.000	0.138	N/A	Pass
21	0.002	0.107	N/A	0.002	0.161	N/A	Pass
22	0.000	0.084	N/A	0.000	0.125	N/A	Pass
23	0.003	0.098	N/A	0.003	0.147	N/A	Pass
24	0.000	0.077	N/A	0.000	0.115	N/A	Pass
25	0.003	0.090	N/A	0.003	0.135	N/A	Pass
26	0.000	0.071	N/A	0.000	0.107	N/A	Pass
27	0.003	0.083	N/A	0.003	0.125	N/A	Pass
28	0.000	0.066	N/A	0.000	0.099	N/A	Pass

29	0.002	0.078	N/A	0.002	0.116	N/A	Pass
30	0.000	0.061	N/A	0.000	0.092	N/A	Pass
31	0.001	0.073	N/A	0.001	0.109	N/A	Pass
32	0.000	0.058	N/A	0.000	0.086	N/A	Pass
33	0.001	0.068	N/A	0.001	0.102	N/A	Pass
34	0.000	0.054	N/A	0.000	0.081	N/A	Pass
35	0.001	0.064	N/A	0.001	0.096	N/A	Pass
36	0.000	0.051	N/A	0.000	0.077	N/A	Pass
37	0.001	0.061	N/A	0.001	0.091	N/A	Pass
38	0.000	0.048	N/A	0.000	0.073	N/A	Pass
39	0.000	0.058	N/A	0.001	0.087	N/A	Pass
40	0.000	0.046	N/A	0.000	0.069	N/A	Pass

Voltage Source Verification Data (Run time)

Comment: TM3
Customer: Customer information

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

Highest parameter values during test:

Voltage (Vrms):	230.09	Frequency(Hz):	50.00
I_Peak (Amps):	0.700	I_RMS (Amps):	0.440
I_Fund (Amps):	0.438	Crest Factor:	1.601
Power (Watts):	100.3	Power Factor:	0.992

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.069	0.460	14.97	OK
3	0.517	2.071	24.98	OK
4	0.074	0.460	16.00	OK
5	0.066	0.920	7.12	OK
6	0.037	0.460	7.97	OK
7	0.029	0.690	4.19	OK
8	0.015	0.460	3.26	OK
9	0.010	0.460	2.15	OK
10	0.012	0.460	2.55	OK
11	0.009	0.230	3.82	OK
12	0.009	0.230	4.04	OK
13	0.010	0.230	4.24	OK
14	0.007	0.230	2.90	OK
15	0.009	0.230	3.80	OK
16	0.008	0.230	3.37	OK
17	0.010	0.230	4.22	OK
18	0.011	0.230	4.67	OK
19	0.009	0.230	3.80	OK
20	0.016	0.230	6.79	OK
21	0.007	0.230	3.23	OK
22	0.003	0.230	1.37	OK
23	0.005	0.230	2.36	OK
24	0.003	0.230	1.25	OK
25	0.005	0.230	2.21	OK
26	0.003	0.230	1.46	OK
27	0.006	0.230	2.74	OK
28	0.005	0.230	1.97	OK
29	0.006	0.230	2.43	OK

30	**0.003**	**0.230**	**1.36**	**OK**
31	**0.004**	**0.230**	**1.85**	**OK**
32	**0.003**	**0.230**	**1.16**	**OK**
33	**0.005**	**0.230**	**2.05**	**OK**
34	**0.003**	**0.230**	**1.09**	**OK**
35	**0.003**	**0.230**	**1.33**	**OK**
36	**0.003**	**0.230**	**1.22**	**OK**
37	**0.004**	**0.230**	**1.88**	**OK**
38	**0.003**	**0.230**	**1.10**	**OK**
39	**0.005**	**0.230**	**2.12**	**OK**
40	**0.008**	**0.230**	**3.43**	**OK**

Test mode:	TM4

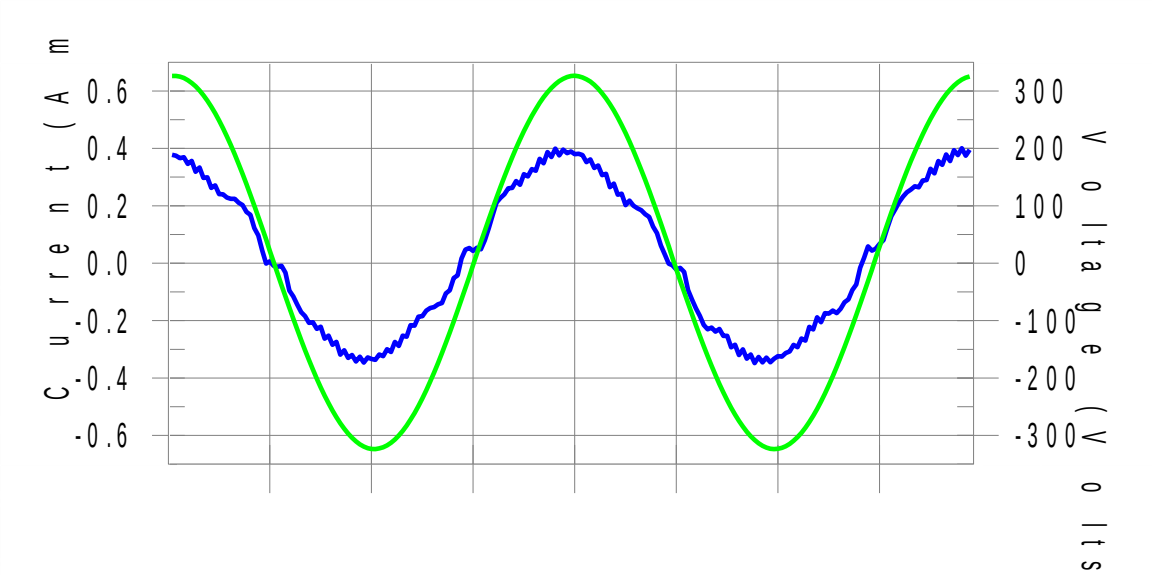
Harmonics – Class-A per IEC 61000-3-2:2018/AMD1:2020(Run time)

Comment: TM4

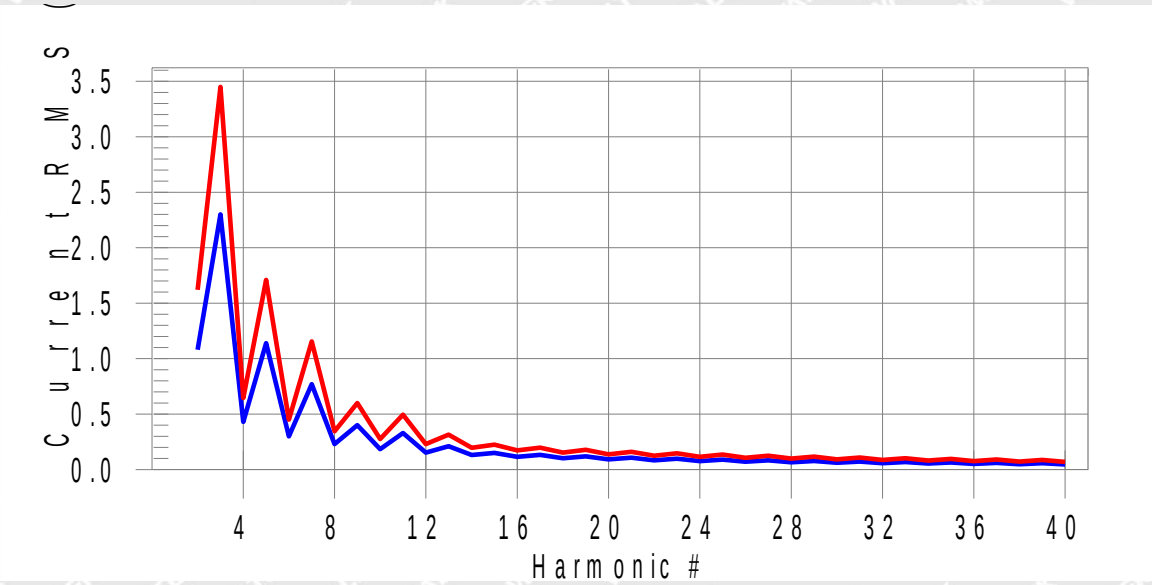
Customer: Customer information

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

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Test result: Pass **Worst harmonics H11-1.4% of 150% limit, H9-2.1% of 100% limit**

Current Test Result Summary (Run time)

Comment: TM4
Customer: Customer information

Test Result: Pass **Source qualification:** Normal
THC(A): 0.016 **I-THD(%):** 6.5 **POHC(A):** 0.002 **POHC Limit(A):** 0.251

Highest parameter values during test:

V_RMS (Volts):	230.09	Frequency(Hz):	50.00
I_Peak (Amps):	0.418	I_RMS (Amps):	0.254
I_Fund (Amps):	0.252	Crest Factor:	1.650
Power (Watts):	57.7	Power Factor:	0.987

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	N/A	0.001	1.620	N/A	Pass
3	0.007	2.300	0.3	0.008	3.450	0.2	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.008	1.140	0.7	0.008	1.710	0.5	Pass
6	0.000	0.300	N/A	0.001	0.450	N/A	Pass
7	0.003	0.770	N/A	0.003	1.155	N/A	Pass
8	0.000	0.230	N/A	0.000	0.345	N/A	Pass
9	0.008	0.400	2.1	0.009	0.600	1.4	Pass
10	0.000	0.184	N/A	0.000	0.276	N/A	Pass
11	0.007	0.330	2.1	0.007	0.495	1.4	Pass
12	0.000	0.153	N/A	0.000	0.230	N/A	Pass
13	0.004	0.210	N/A	0.004	0.315	N/A	Pass
14	0.000	0.131	N/A	0.000	0.197	N/A	Pass
15	0.002	0.150	N/A	0.003	0.225	N/A	Pass
16	0.000	0.115	N/A	0.000	0.173	N/A	Pass
17	0.002	0.132	N/A	0.002	0.198	N/A	Pass
18	0.000	0.102	N/A	0.000	0.153	N/A	Pass
19	0.001	0.118	N/A	0.001	0.178	N/A	Pass
20	0.000	0.092	N/A	0.000	0.138	N/A	Pass
21	0.000	0.107	N/A	0.001	0.161	N/A	Pass
22	0.000	0.084	N/A	0.000	0.125	N/A	Pass
23	0.000	0.098	N/A	0.000	0.147	N/A	Pass
24	0.000	0.077	N/A	0.000	0.115	N/A	Pass
25	0.001	0.090	N/A	0.001	0.135	N/A	Pass
26	0.000	0.071	N/A	0.000	0.107	N/A	Pass
27	0.001	0.083	N/A	0.001	0.125	N/A	Pass
28	0.000	0.066	N/A	0.000	0.099	N/A	Pass

29	0.001	0.078	N/A	0.001	0.116	N/A	Pass
30	0.000	0.061	N/A	0.000	0.092	N/A	Pass
31	0.001	0.073	N/A	0.001	0.109	N/A	Pass
32	0.000	0.058	N/A	0.000	0.086	N/A	Pass
33	0.001	0.068	N/A	0.001	0.102	N/A	Pass
34	0.000	0.054	N/A	0.000	0.081	N/A	Pass
35	0.001	0.064	N/A	0.001	0.096	N/A	Pass
36	0.000	0.051	N/A	0.000	0.077	N/A	Pass
37	0.001	0.061	N/A	0.001	0.091	N/A	Pass
38	0.000	0.048	N/A	0.000	0.073	N/A	Pass
39	0.001	0.058	N/A	0.001	0.087	N/A	Pass
40	0.000	0.046	N/A	0.000	0.069	N/A	Pass

Voltage Source Verification Data (Run time)

Comment: TM4
Customer: Customer information

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

Highest parameter values during test:

Voltage (Vrms):	230.09	Frequency(Hz):	50.00
I_Peak (Amps):	0.418	I_RMS (Amps):	0.254
I_Fund (Amps):	0.252	Crest Factor:	1.650
Power (Watts):	57.7	Power Factor:	0.987

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.060	0.460	13.15	OK
3	0.508	2.071	24.52	OK
4	0.076	0.460	16.54	OK
5	0.065	0.920	7.06	OK
6	0.037	0.460	8.08	OK
7	0.031	0.690	4.51	OK
8	0.015	0.460	3.37	OK
9	0.012	0.460	2.56	OK
10	0.013	0.460	2.82	OK
11	0.011	0.230	4.68	OK
12	0.011	0.230	4.61	OK
13	0.012	0.230	5.01	OK
14	0.007	0.230	3.20	OK
15	0.012	0.230	5.30	OK
16	0.007	0.230	3.18	OK
17	0.012	0.230	5.27	OK
18	0.012	0.230	5.08	OK
19	0.011	0.230	4.89	OK
20	0.015	0.230	6.49	OK
21	0.007	0.230	3.08	OK
22	0.004	0.230	1.53	OK
23	0.005	0.230	2.14	OK
24	0.003	0.230	1.29	OK
25	0.004	0.230	1.69	OK
26	0.003	0.230	1.34	OK
27	0.007	0.230	2.90	OK
28	0.005	0.230	2.28	OK
29	0.007	0.230	2.85	OK

30	**0.003**	**0.230**	**1.31**	**OK**
31	**0.004**	**0.230**	**1.84**	**OK**
32	**0.003**	**0.230**	**1.47**	**OK**
33	**0.004**	**0.230**	**1.95**	**OK**
34	**0.003**	**0.230**	**1.21**	**OK**
35	**0.004**	**0.230**	**1.61**	**OK**
36	**0.003**	**0.230**	**1.33**	**OK**
37	**0.004**	**0.230**	**1.80**	**OK**
38	**0.003**	**0.230**	**1.11**	**OK**
39	**0.005**	**0.230**	**2.18**	**OK**
40	**0.008**	**0.230**	**3.40**	**OK**

6. Voltage Fluctuation Flicker

6.1 Test Procedure

Test is conducted under the description of IEC 61000-3-3.

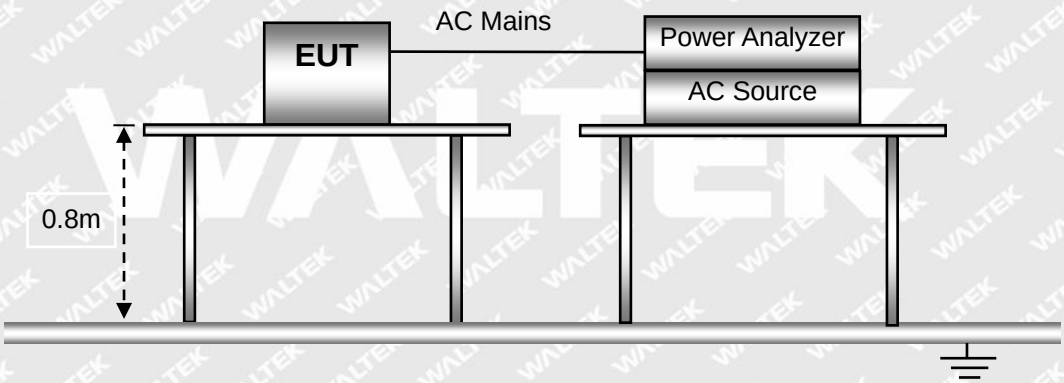
6.2 Test Standards

IEC 61000-3-3, Limit: Clause 5.

6.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

6.4 Basic Test Setup Block Diagram



6.5 Voltage Fluctuation and Flicker Test Data

Test mode:	TM1

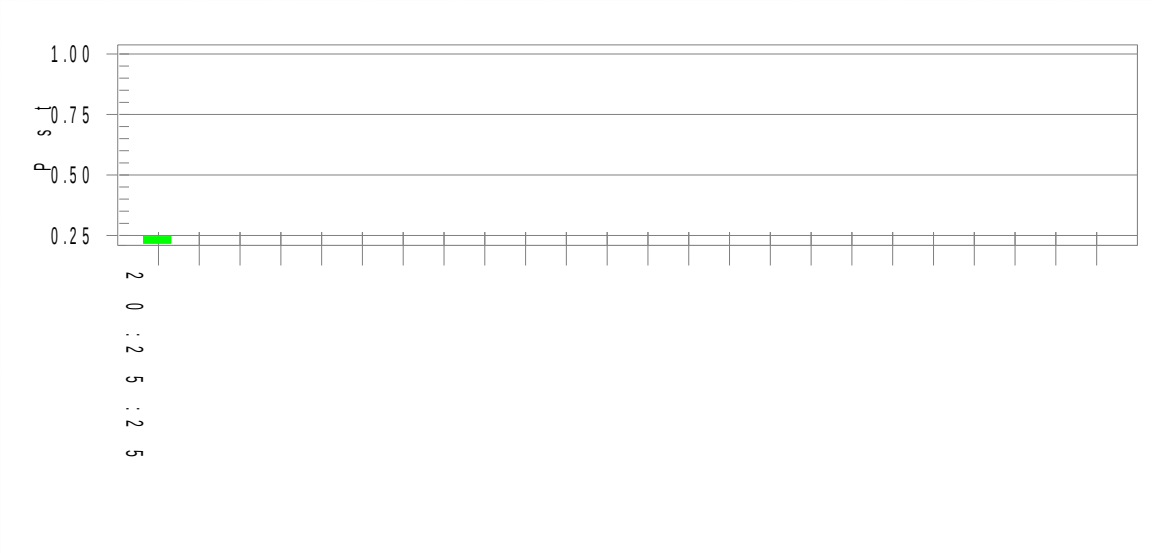
Flicker Test Summary per IEC61000-3-3:2013+AMD2:2021 (Run time)

Comment: TM1

Customer: Customer information

Test Result: Pass **Status: Test Completed**

Pst_1 and limit line **European Limits**



Plt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt): 230.02

Highest dt (%):		**Test limit (%):**		
T-max (mS):	**0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.00**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.247**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.108**	**Test limit:**	**0.650**	**Pass**

Test mode:	TM2

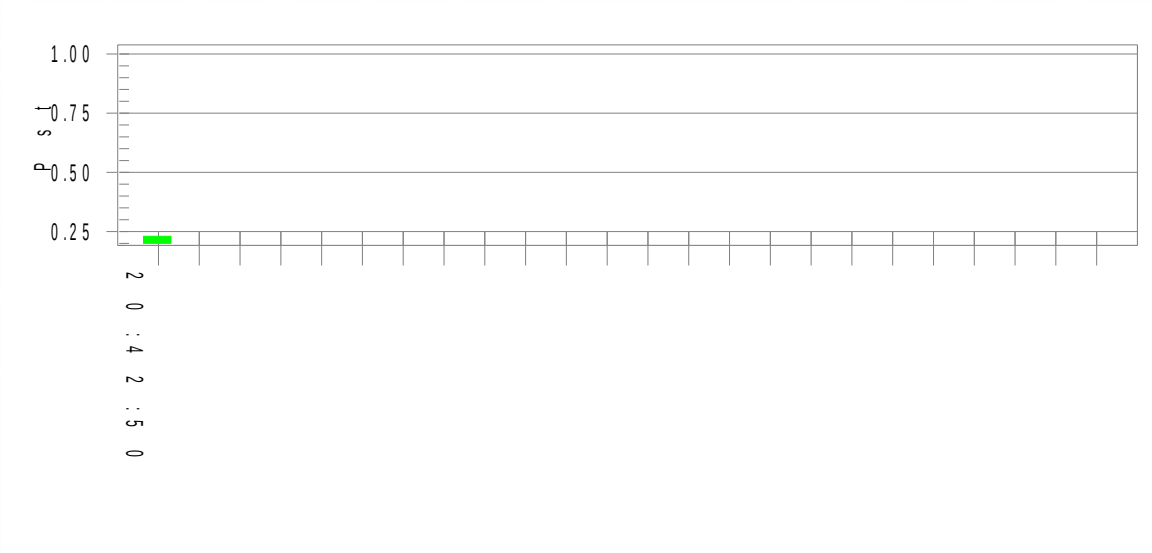
Flicker Test Summary per IEC61000-3-3:2013+AMD2:2021 (Run time)

Comment: TM2

Customer: Customer information

Test Result: Pass **Status: Test Completed**

Pst_1 and limit line **European Limits**



Plt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt):	**230.00**			
Highest dt (%):		**Test limit (%):**		
T-max (mS):	**0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.00**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.230**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.101**	**Test limit:**	**0.650**	**Pass**

Test mode:	TM3

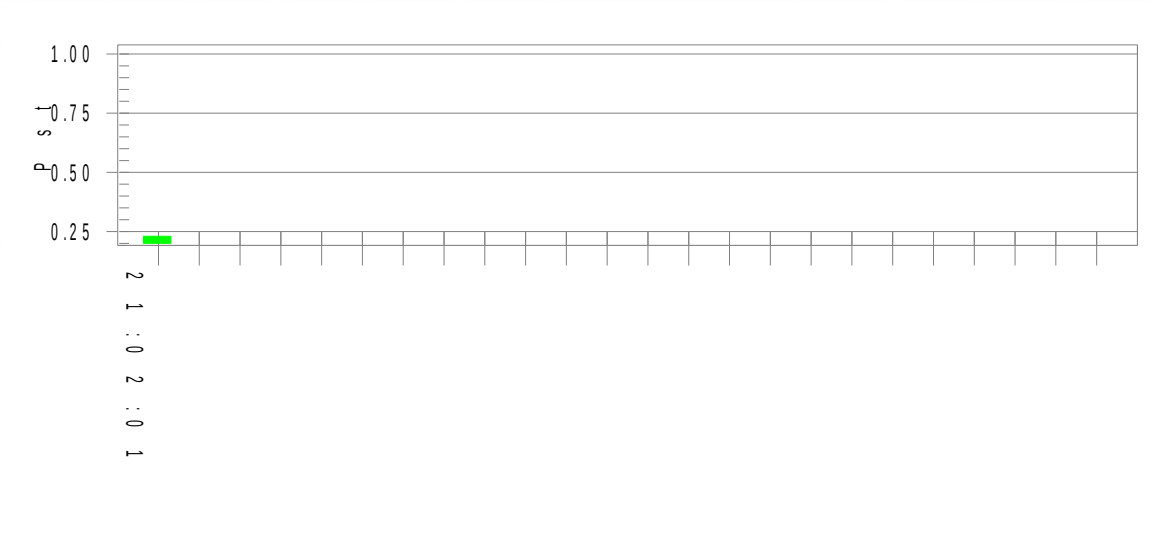
Flicker Test Summary per IEC61000-3-3:2013+AMD2:2021 (Run time)

Comment: TM3

Customer: Customer information

Test Result: Pass **Status: Test Completed**

Pst_1 and limit line **European Limits**



Plt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt): 230.01

Highest dt (%):		**Test limit (%):**		
T-max (mS):	**0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.00**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.230**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.101**	**Test limit:**	**0.650**	**Pass**

Test mode:	TM4

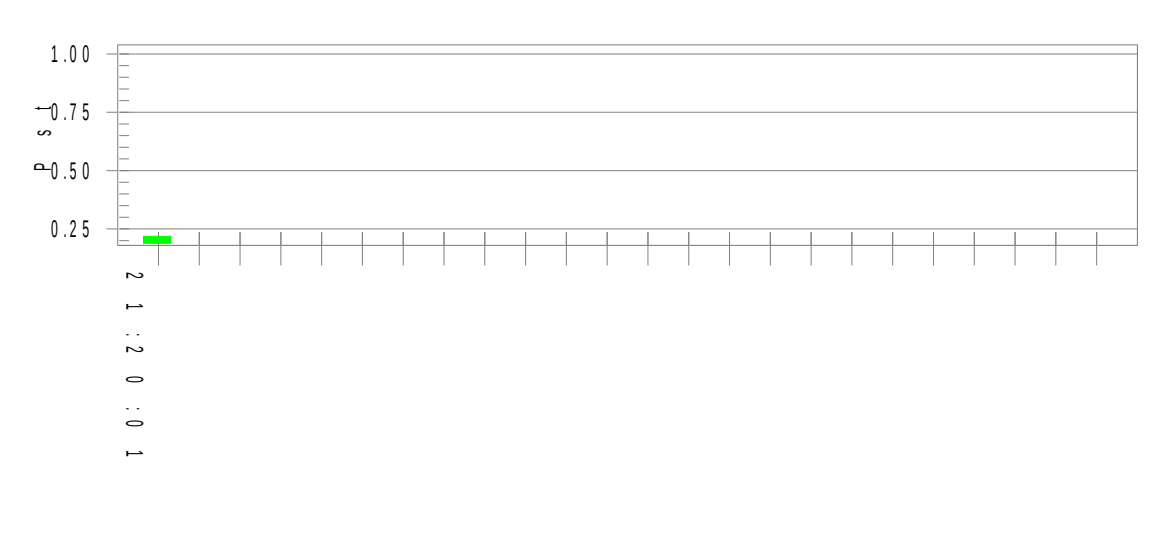
Flicker Test Summary per IEC61000-3-3:2013+AMD2:2021 (Run time)

Comment: TM4

Customer: Customer information

Test Result: Pass **Status: Test Completed**

Pst_1 and limit line **European Limits**



Plt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt): 230.01

Highest dt (%):		**Test limit (%):**		
T-max (mS):	**0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.00**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.219**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.096**	**Test limit:**	**0.650**	**Pass**

7. Electrostatic Discharges (ESD)

7.1 Test Procedure

Test is conducted under the description of IEC 61000-4-2.

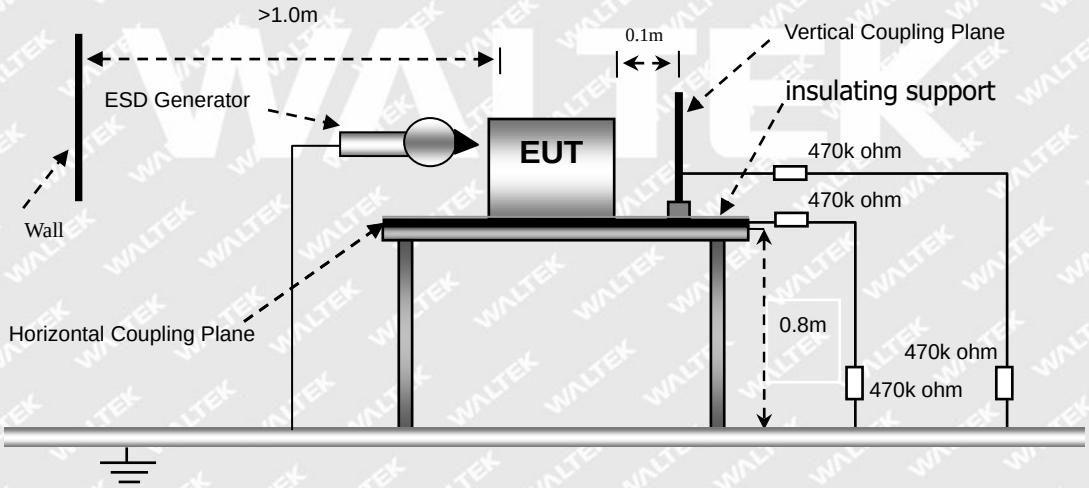
7.2 Test Performance

Performance Criterion: B

7.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

7.4 Basic Test Setup Block Diagram



7.5 Electrostatic Discharge Immunity Test Data

GTM9X1001P-10012-T2, GTM9X1001P-10054-T3A, GTM9X1001P-10024-T3, GTM9X1001P-6015-T2A/ 8016-000101

Table 1: Electrostatic Discharge Immunity (Air Discharge)

IEC 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-8	+8	-15	+15	-18	+18
Shell edge crack	A	A	A	A	A	A	A	A	A	A
DC output port	A	A	A	A	A	A	A	A	A	A

Table 2: Electrostatic Discharge Immunity (Direct Contact)

IEC 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-8	+8	-15	+15	-18	+18
/	/	/	/	/	/	/	/	/	/	/

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

IEC 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-10	+10
HCP (6 Sides)	A	A	A	A	A	A	A	A	A	A
VCP (4 Sides)	A	A	A	A	A	A	A	A	A	A

Test Result: Pass

8. Continuous RF Electromagnetic Field Disturbances (RS)

8.1 Test Procedure

Test is conducted under the description of IEC 61000-4-3.

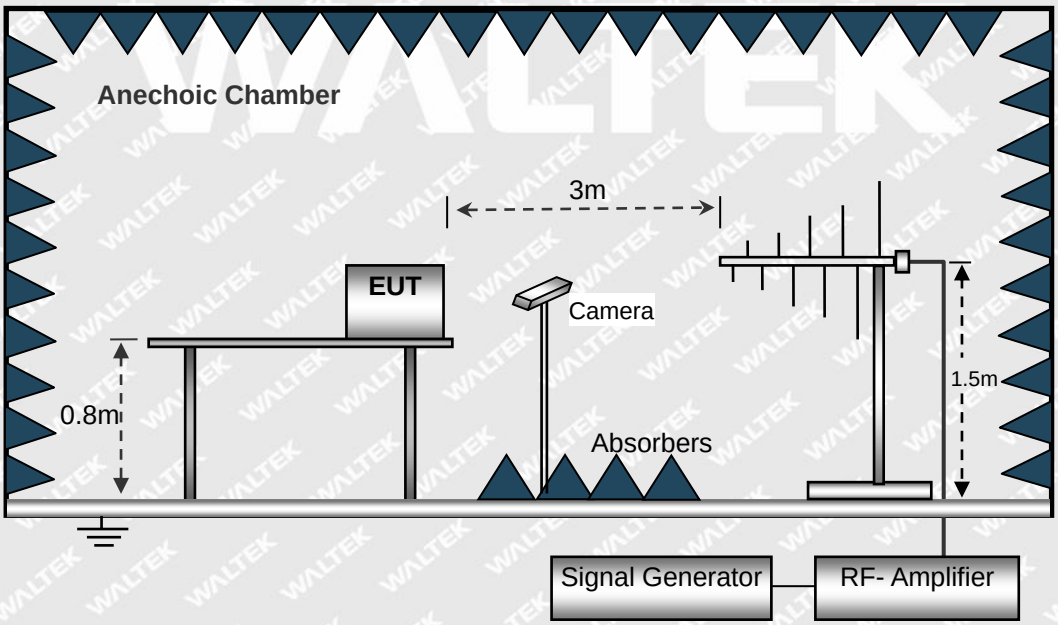
8.2 Test Performance

Performance Criterion: A

8.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

8.4 Basic Test Setup Block Diagram



8.5 Continuous Radiated Disturbances Test Data

8.5.1 Frequency step: 1% of fundamental

Dwell time: 1 second

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

GTM9X1001P-10012-T2, GTM9X1001P-10054-T3A, GTM9X1001P-10024-T3, GTM9X1001P-6015-T2A/8016-000101

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-2700	10	A	A	A	A	A	A	A	A

8.5.2 Modulation: Pulse modulation, repetition frequency 18Hz

GTM9X1001P-6015-T2A/8016-000101

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
380-390	27	A	A	A	A	A	A	A	A
800-960	28	A	A	A	A	A	A	A	A

8.5.3 Modulation: Pulse modulation, repetition frequency 1KHz

GTM9X1001P-6015-T2A/8016-000101

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
450	27	A	A	A	A	A	A	A	A
430-470	28	A	A	A	A	A	A	A	A

8.5.4 Modulation: Pulse modulation, repetition frequency 217Hz

GTM9X1001P-6015-T2A/8016-000101

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
710	9	A	A	A	A	A	A	A	A
740-787	9	A	A	A	A	A	A	A	A
1700-1990	28	A	A	A	A	A	A	A	A
2400-2570	28	A	A	A	A	A	A	A	A
5100-5800	9	A	A	A	A	A	A	A	A

Test Result: Pass

Note: The test (8.5.2-8.5.4) was tested by Shen zhen Huatongwei International Inspection Co.,Ltd Registration

9. Electrical Fast Transients (EFT)

9.1 Test Procedure

Test is conducted under the description of IEC 61000-4-4.

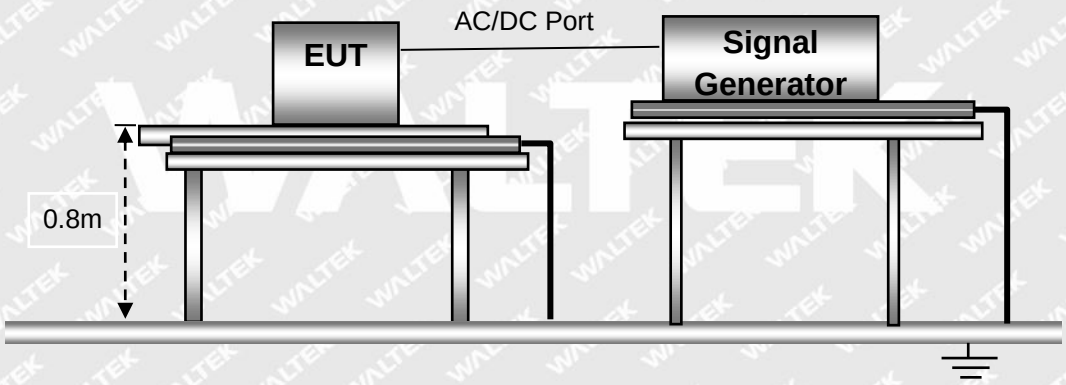
9.2 Test Performance

Performance Criterion: B

9.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

9.4 Basic Test Setup Block Diagram



9.5 Electrical Fast Transients Test Data

Repetition frequency 100 kHz

GTM9X1001P-10024-T3, GTM9X1001P-10054-T3A

IEC 61000-4-4 Test Points		Test Voltage (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L	/	/	/	/	A	A	A	A
	N	/	/	/	/	A	A	A	A
	PE	/	/	/	/	A	A	A	A
	L+N	/	/	/	/	A	A	A	A
	L+PE	/	/	/	/	A	A	A	A
	N+PE	/	/	/	/	A	A	A	A
	L+N+PE	/	/	/	/	A	A	A	A
Signal ports	RJ45	/	/	/	/	/	/	/	/

GTM9X1001P-10012-T2, GTM9X1001P-6015-T2A/8016-000101

IEC 61000-4-4 Test Points		Test Voltage (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L	/	/	/	/	A	A	A	A
	N	/	/	/	/	A	A	A	A
	PE	/	/	/	/	/	/	/	/
	L+N	/	/	/	/	A	A	A	A
	L+PE	/	/	/	/	/	/	/	/
	N+PE	/	/	/	/	/	/	/	/
	L+N+PE	/	/	/	/	/	/	/	/
Signal ports	RJ45	/	/	/	/	/	/	/	/

Test Result: Pass

10. Surges

10.1 Test Procedure

Test is conducted under the description of IEC 61000-4-5.

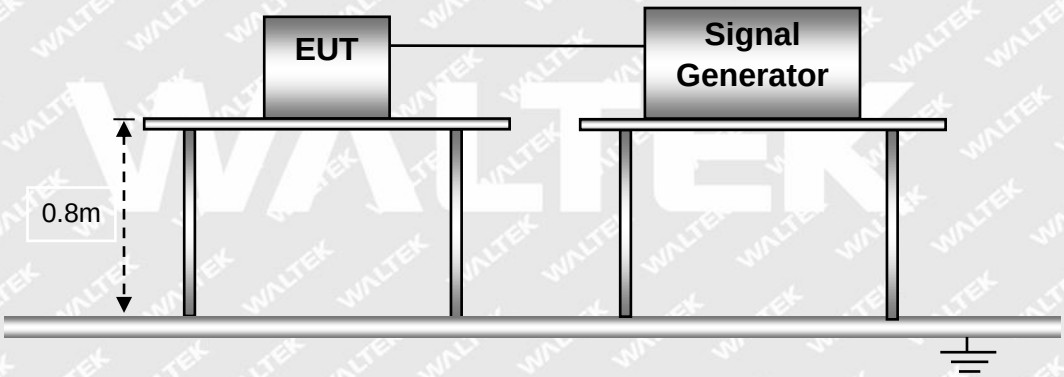
10.2 Test Performance

Performance Criterion: B

10.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

10.4 Basic Test Setup Block Diagram



10.5 Surge Test Data

GTM9X1001P-10054-T3A, GTM9X1001P-10024-T3

Test Voltage (kV)	Poll	Path	Pass	Fail
0.5kV	±	L-N, L-PE, N-PE	A	/
1kV	±	L-N, L-PE, N-PE	A	/
2kV	±	L-N, L-PE, N-PE	A	/
4kV	±	L-PE, N-PE	A	/

GTM9X1001P-10012-T2, GTM9X1001P-6015-T2A/8016-000101

Test Voltage (kV)	Poll	Path	Pass	Fail
0.5kV	±	L-N	A	/
1kV	±	L-N	A	/
2kV	±	L-N	A	/
4kV	±	L-PE, N-PE	/	/

Test Result: Pass

11. Continuous Induced RF Disturbances (C/S)

11.1 Test Procedure

Test is conducted under the description of IEC 61000-4-6.

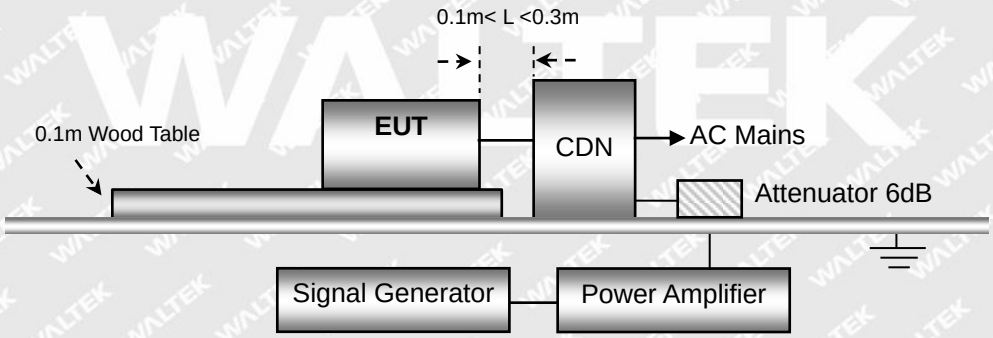
11.2 Test Performance

Performance Criterion: A

11.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

11.4 Basic Test Setup Block Diagram



11.5 Continuous Conducted Disturbances Test Data

Sweep frequency range: 0.15 MHz to 80 MHz
Frequency step: 1% of fundamental
Dwell time: 1 second

AC Port

GTM9X1001P-10012-T2, GTM9X1001P-10054-T3A, GTM9X1001P-10024-T3, GTM9X1001P-6015-T2A/ 8016-000101

Frequency MHz	Injected Position	Voltage level (e.m.f.)	Observations (Performance Criterion)	Result
0.15-80	AC Mains	1V	/	Pass
0.15-80	AC Mains	3V	/	Pass
0.15-80	AC Mains	6V	A	Pass

Test Result: Pass

12. Power-Frequency Magnetic Fields (PFMF)

12.1 Test Procedure

Test is conducted under the description of IEC 61000-4-8.

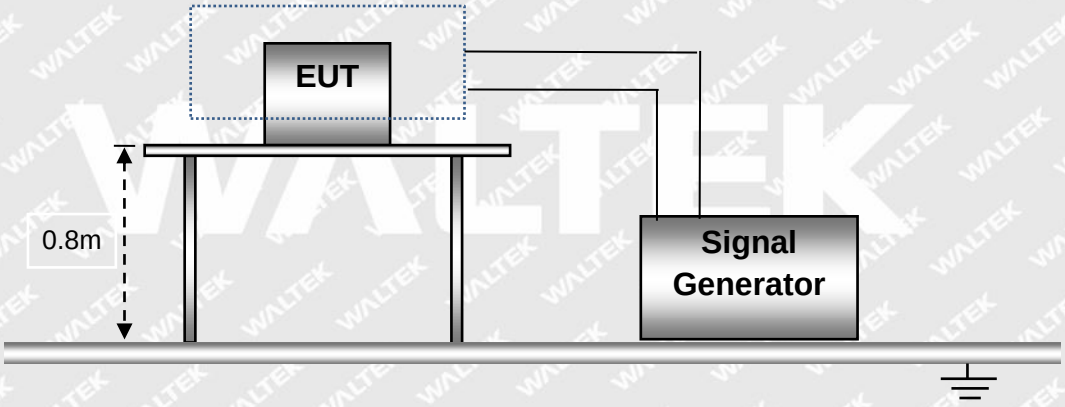
12.2 Test Performance

Performance Criterion: A

12.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

12.4 Basic Test Setup Block Diagram



12.5 Power-Frequency Magnetic Field Test Data

GTM9X1001P-10012-T2, GTM9X1001P-10054-T3A, GTM9X1001P-10024-T3, GTM9X1001P-6015-T2A/ 8016-000101

Level	Magnetic Field Strength (r.m.s) A/m	Frequency Hz	Induction Coil Postion	Pass	Fail
1	1	50/60	X, Y, Z	/	/
2	3	50/60	X, Y, Z	/	/
3	10	50/60	X, Y, Z	/	/
4	30	50/60	X, Y, Z	A	/

Test Result: Pass

13. Voltage Dips and Interruptions

13.1 Test Procedure

Test is conducted under the description of IEC 61000-4-11.

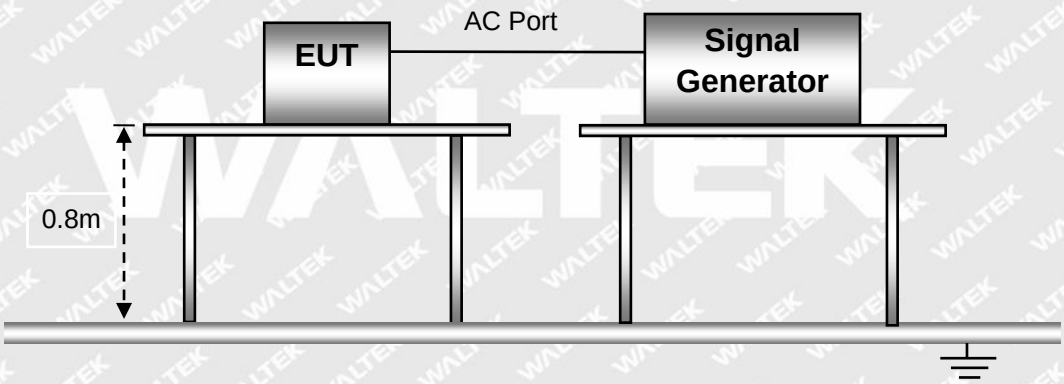
13.2 Test Performance

Performance Criterion: B/C

13.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	998 mbar

13.4 Basic Test Setup Block Diagram



13.5 Voltage Dips And Interruptions Test Data

U: Vlotage dips in % U_T (U_T is rated voltage for the EUT)

T: Test duration

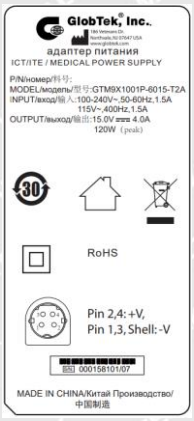
GTM9X1001P-10012-T2, GTM9X1001P-10054-T3A, GTM9X1001P-10024-T3, GTM9X1001P-6015-T2A/8016-000101

Level	U	T	Phase Angle	N	Pass	Fail
1	100%	10ms	0°/45°/90°/135°/180°,225°/270°/315°	3	A	/
2	100%	20ms	0°/45°/90°/135°/180°,225°/270°/315°	3	A	/
3	70%	500ms	0°/45°/90°/135°/180°,225°/270°/315°	3	B	/
4	70%	600ms	0°/45°/90°/135°/180°,225°/270°/315°	3	B	/
5	100%	5000ms	0°/45°/90°/135°/180°,225°/270°/315°	3	B	/
6	100%	6000ms	0°/45°/90°/135°/180°,225°/270°/315°	3	B	/

Test Result: Pass

EXHIBIT 1 - PRODUCT LABELING

Proposed CE Label Format



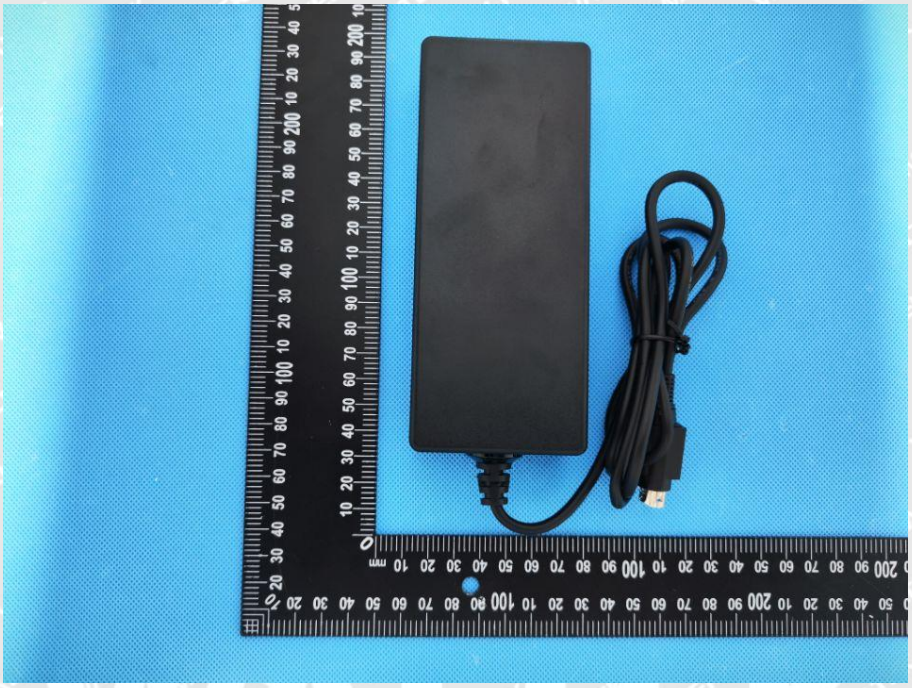
Specifications: Specifications: Labeling is printed in indelible ink on a permanent adhesive backing or silk-screened or laser-marked onto the EUT. The color of the markings are black if a white adhesive backed label is used. The color of the markings are white if silk-screened or laser-marked. The markings shall be affixed to 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 must have a height of at least 5 mm. 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

EXHIBIT 2 - EUT PHOTOGRAPHS

GTM9X1001P-10012-T2

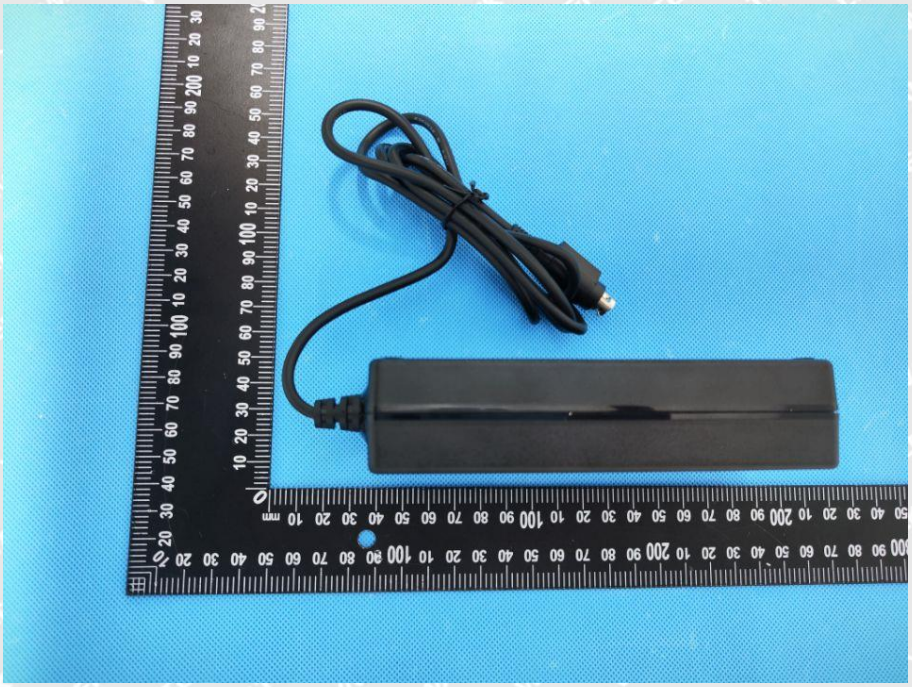
EUT View 1



EUT View 2

EUT View 3

EUT View 4



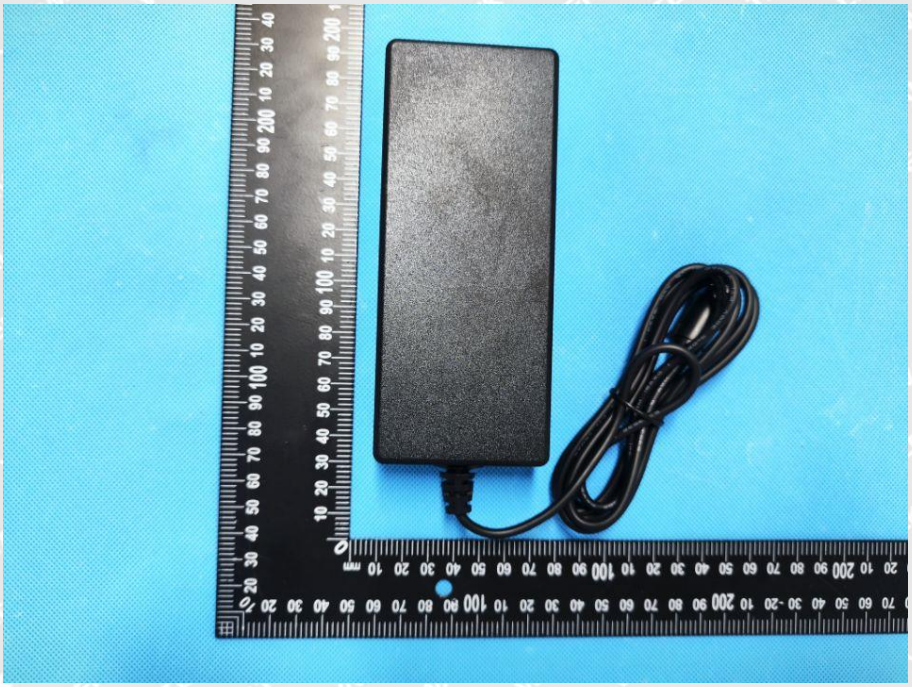
EUT View 5

EUT View 6

GTM9X1001P-10054-T3A

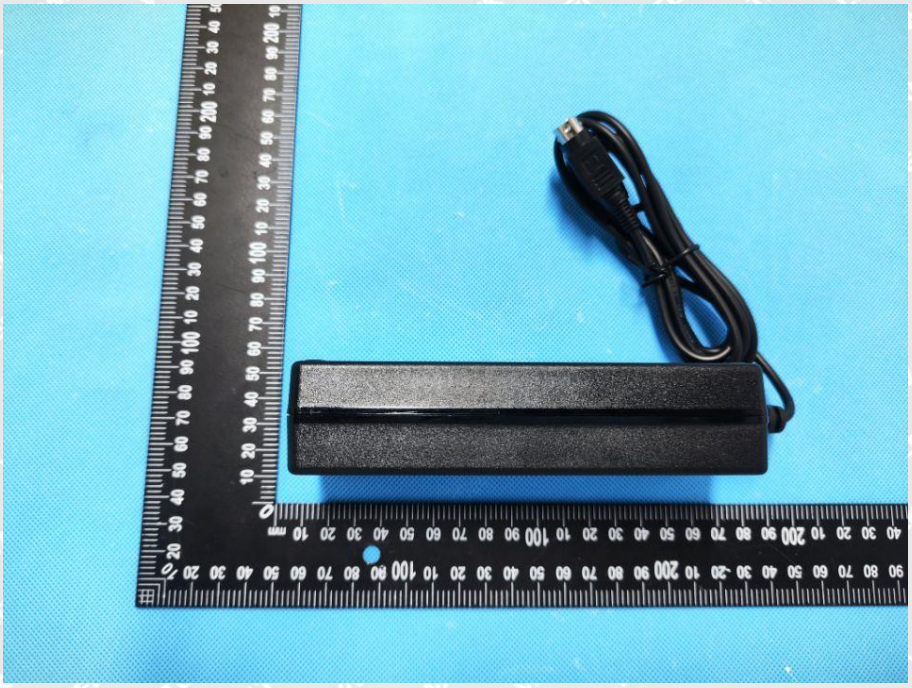
EUT View 7

EUT View 8

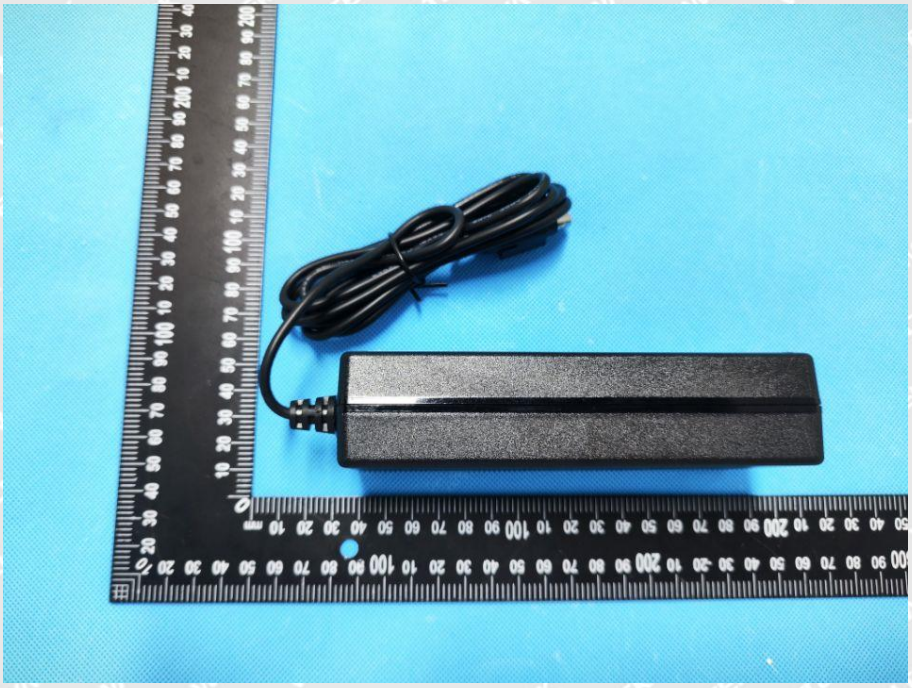


EUT View 9

EUT View 10

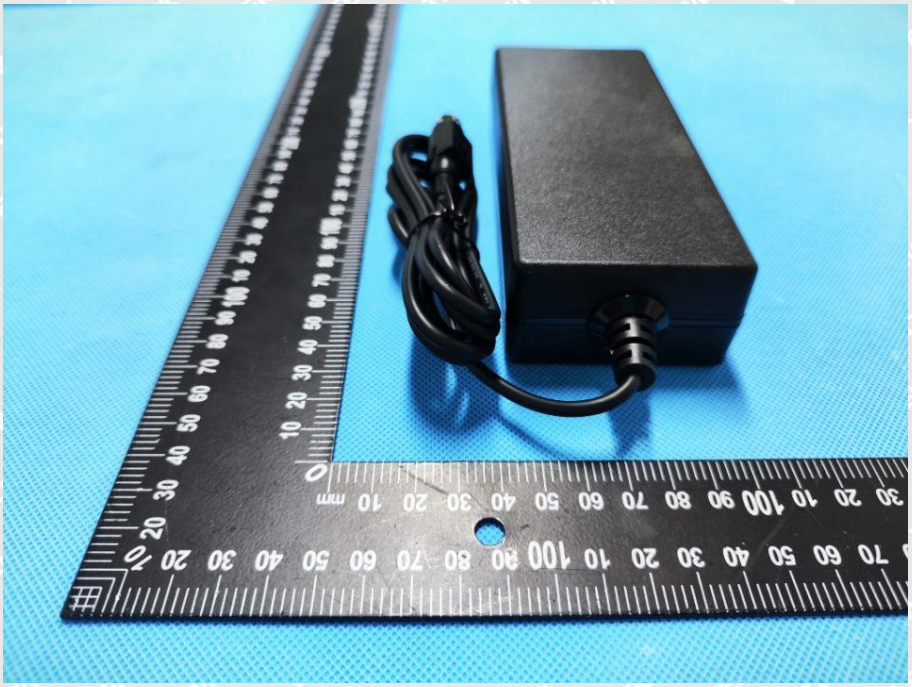


EUT View 11



EUT View 12

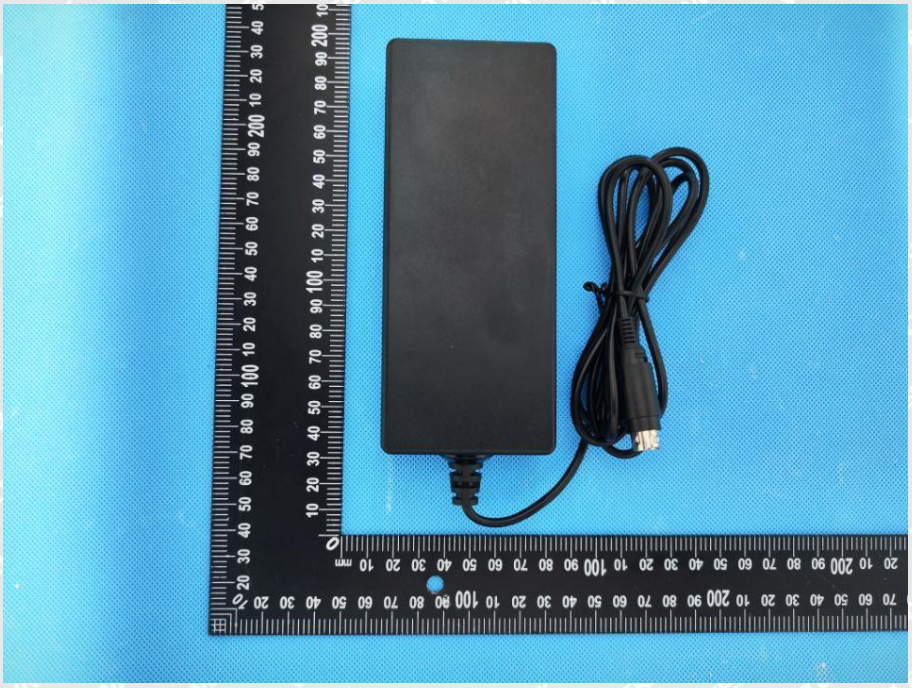
EUT View 13



GTM9X1001P-10024-T3

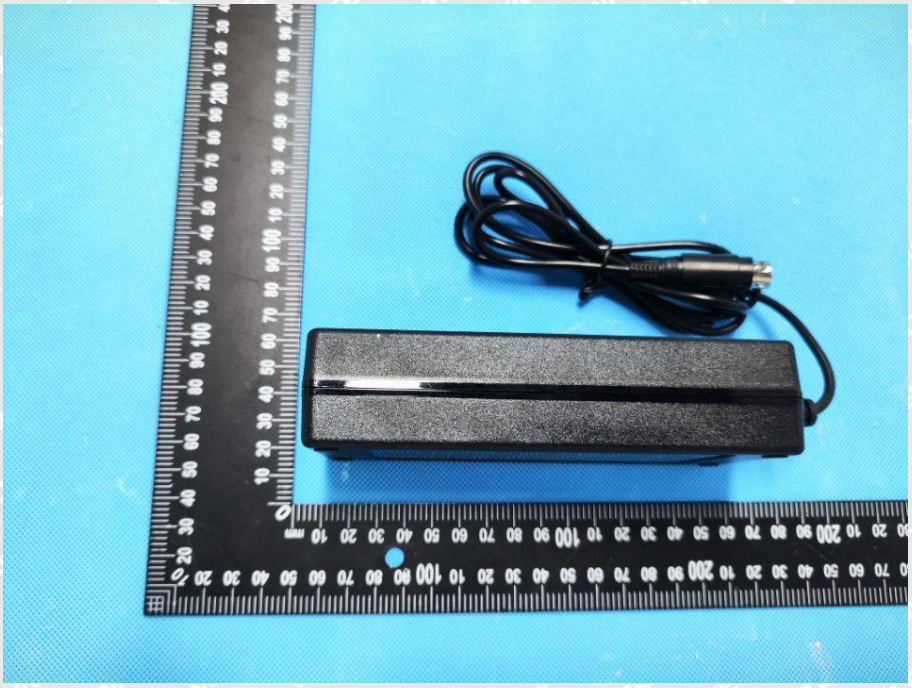
EUT View 14

EUT View 15



EUT View 16

EUT View 17



EUT View 18

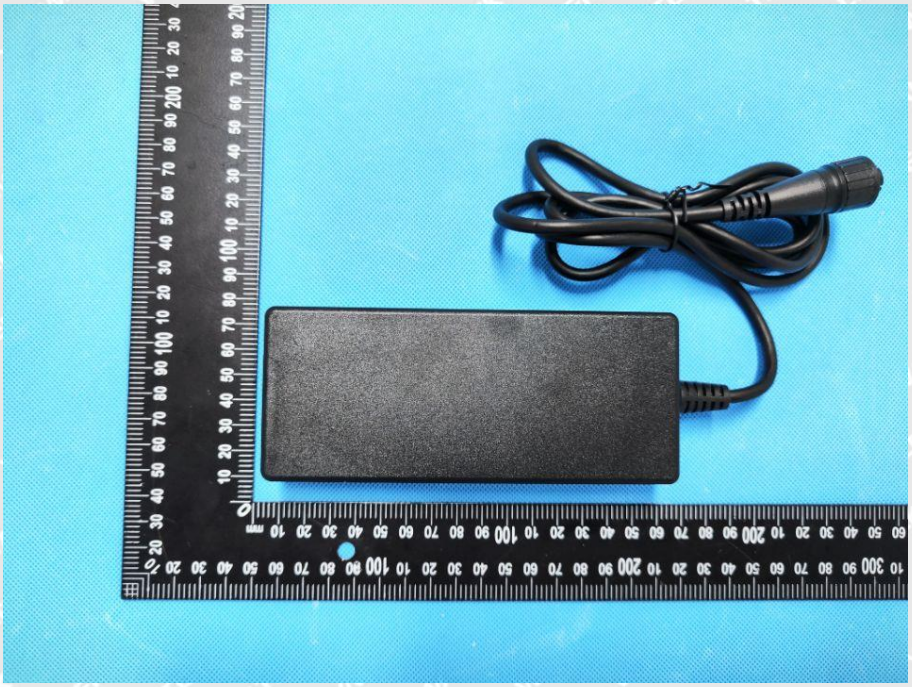
EUT View 19

EUT View 20

GTM9X1001P-6015-T2A

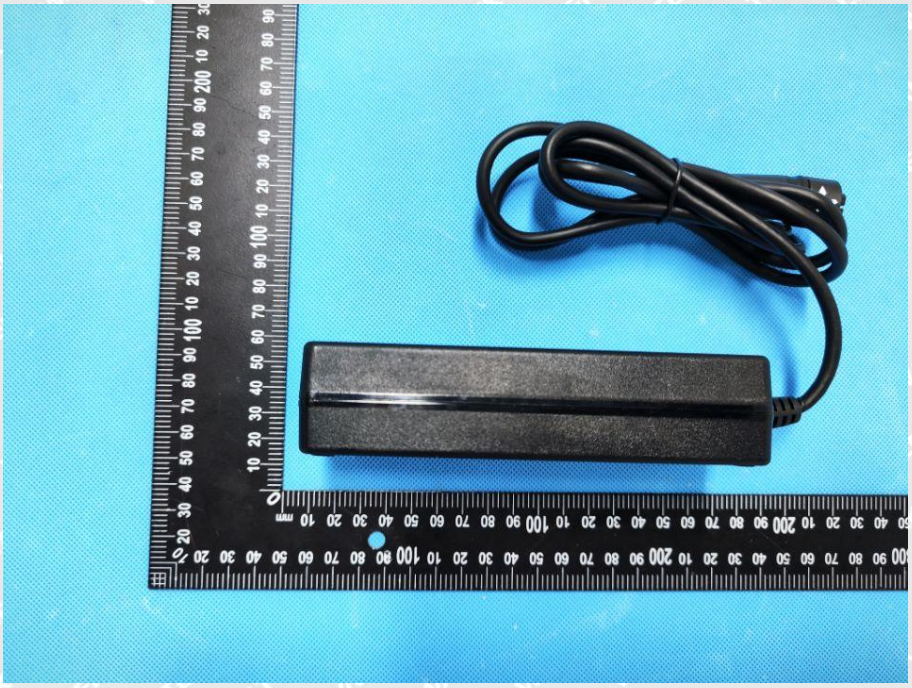
EUT View 21

EUT View 22



EUT View 23

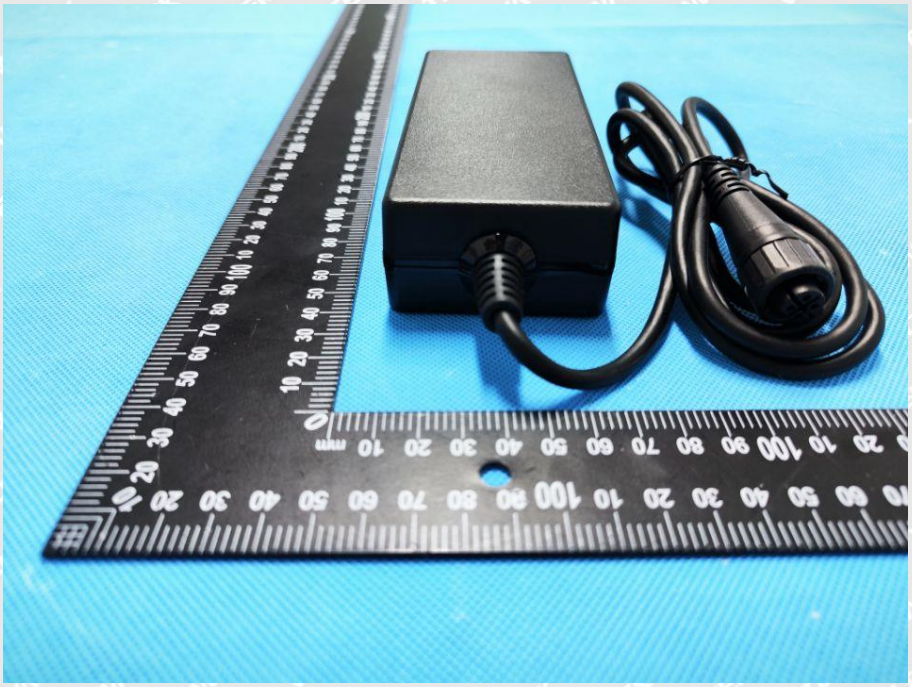
EUT View 24



EUT View 25

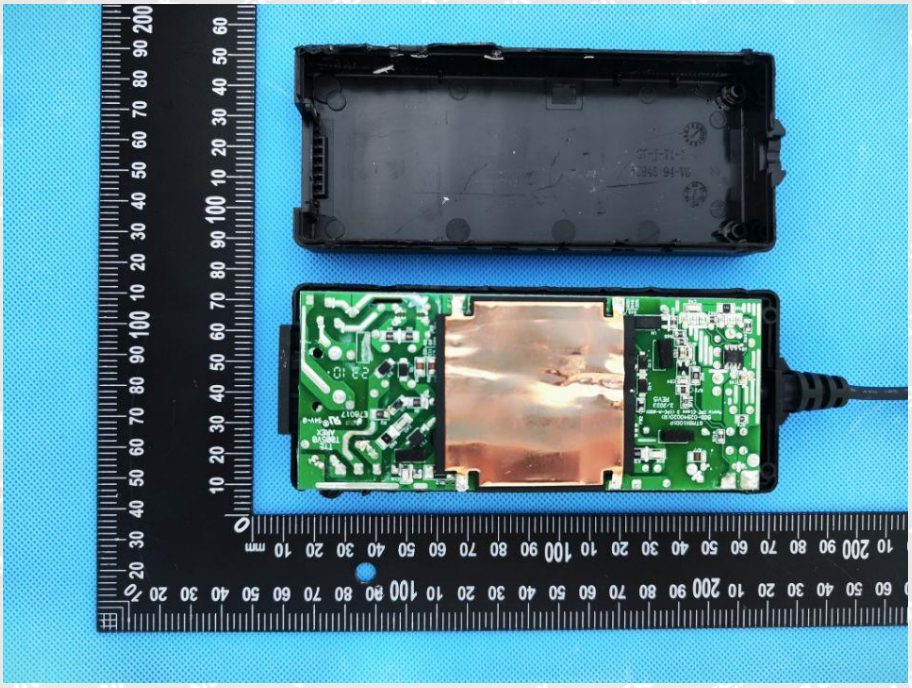
EUT View 26

EUT View 27

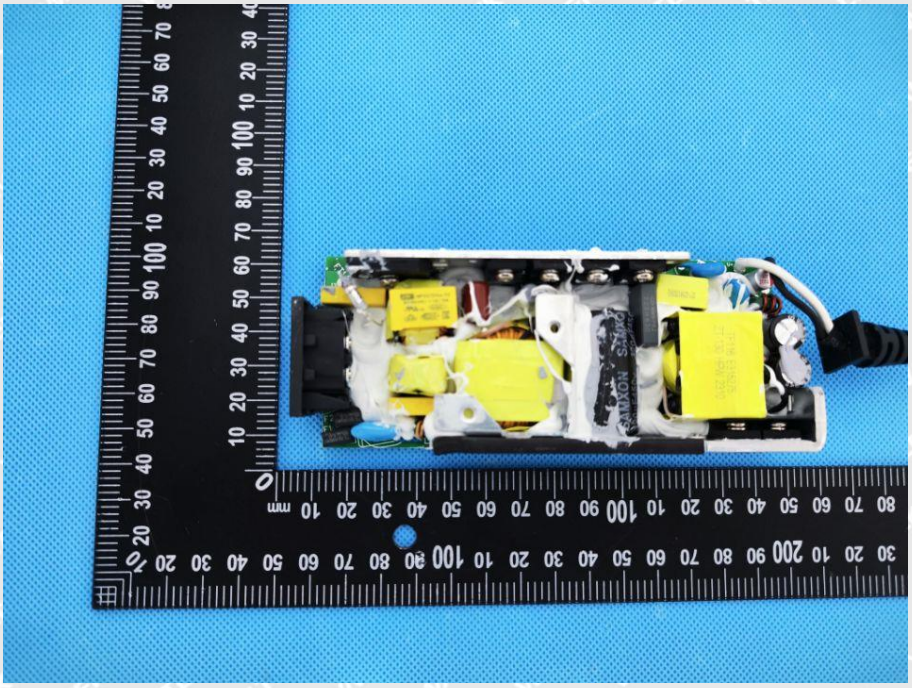


GTM9X1001P-10012-T2

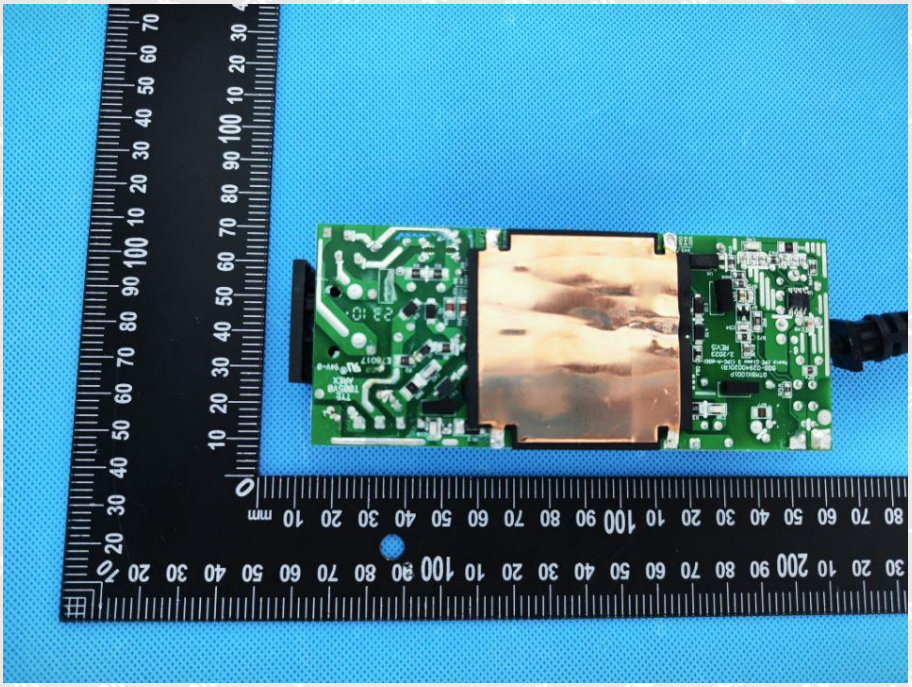
EUT Housing and Board View 1



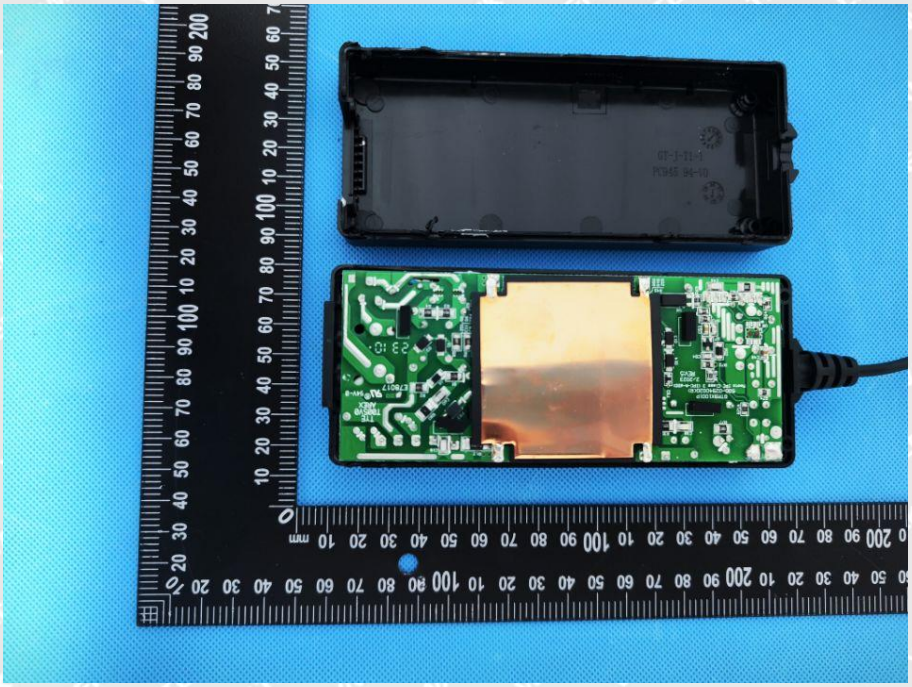
Solder Board-Component View 2



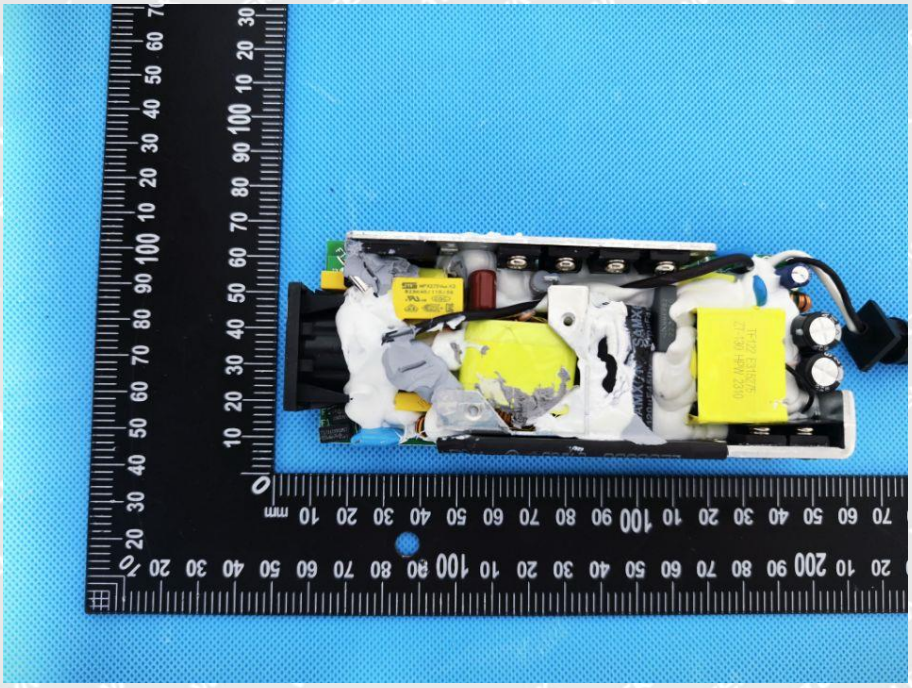
Solder Board-Component View 3



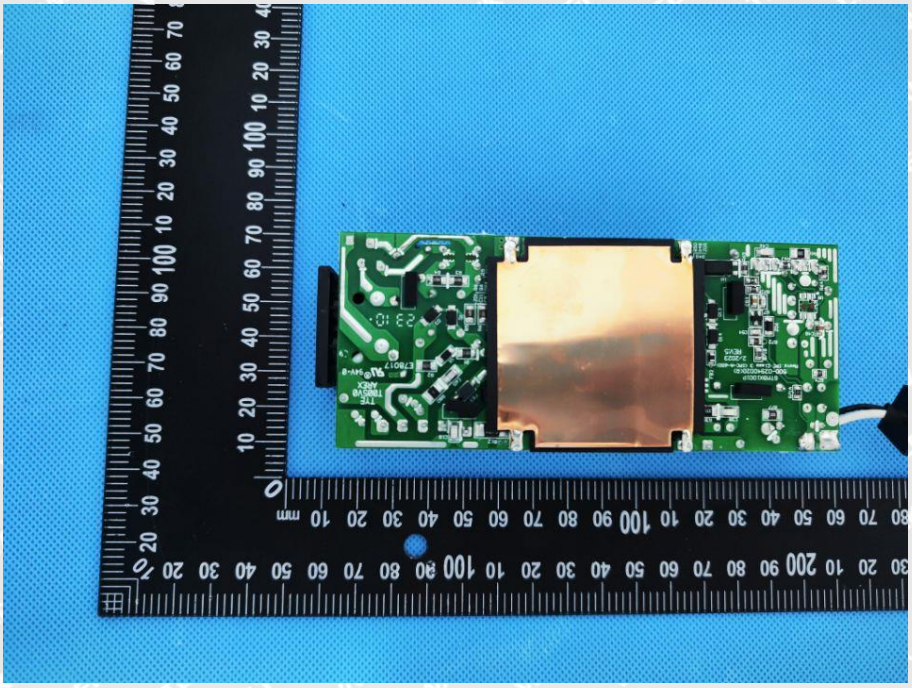
GTM9X1001P-10054-T3A
EUT Housing and Board View 4



Solder Board-Component View 5

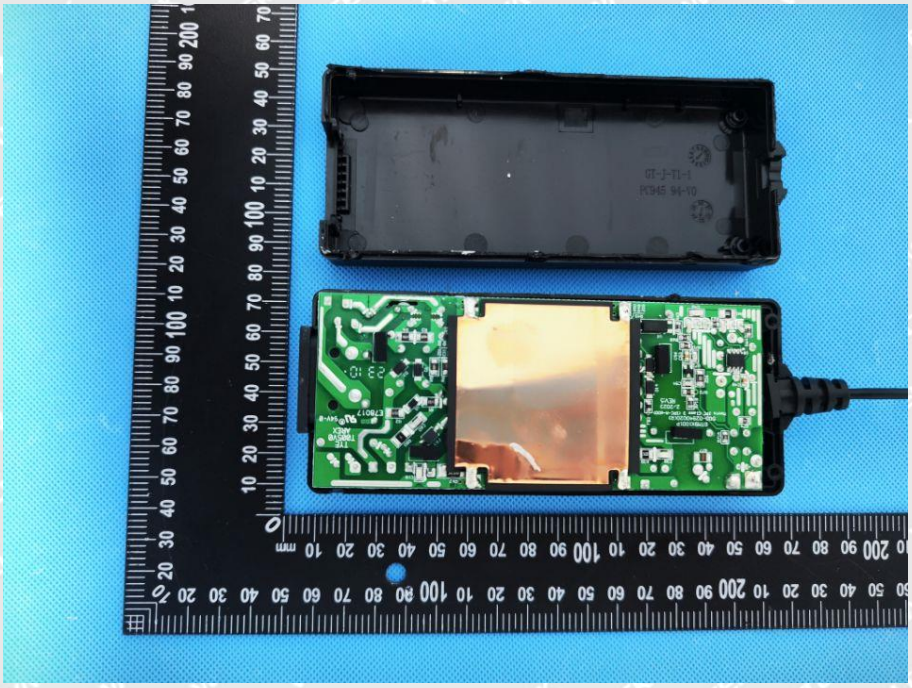


Solder Board-Component View 6

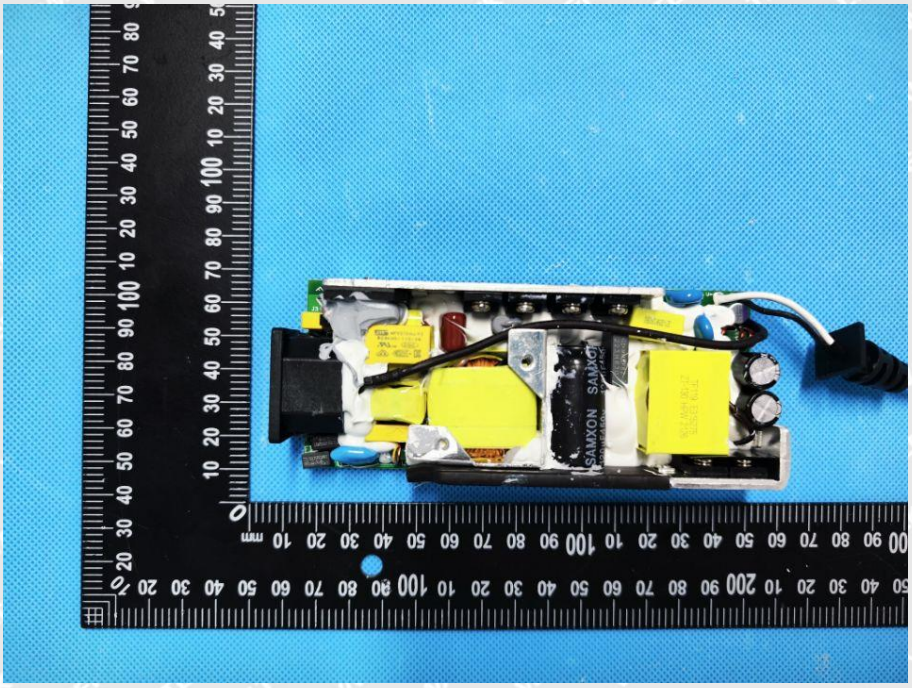


GTM9X1001P-10024-T3

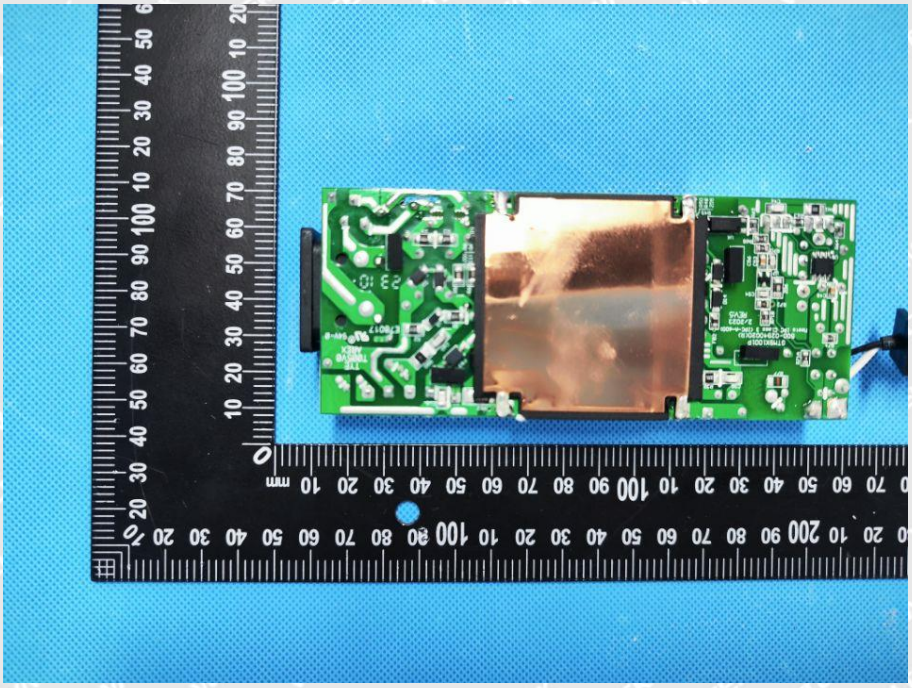
EUT Housing and Board View 7



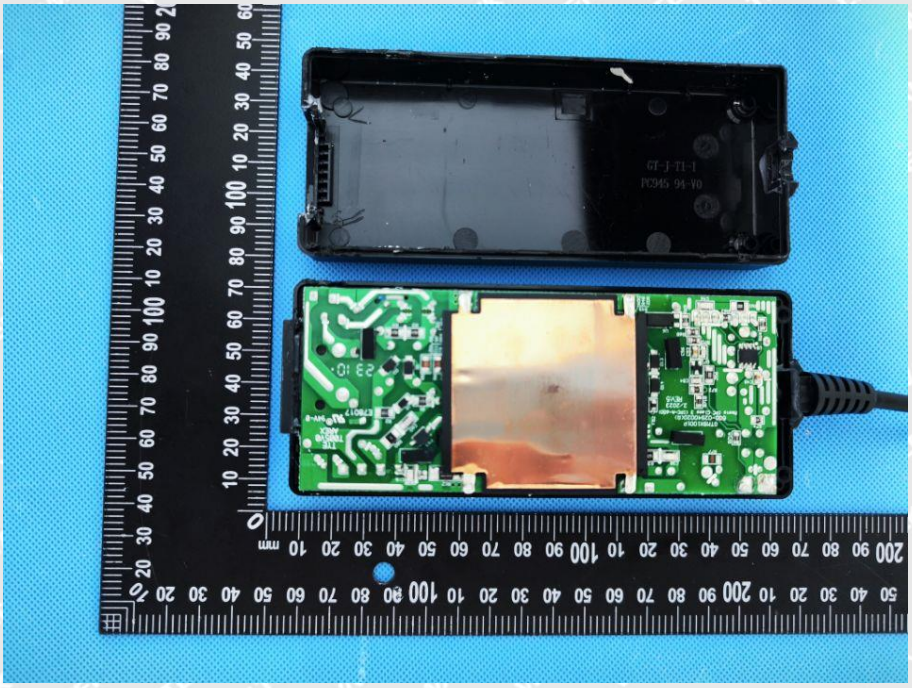
Solder Board-Component View 8



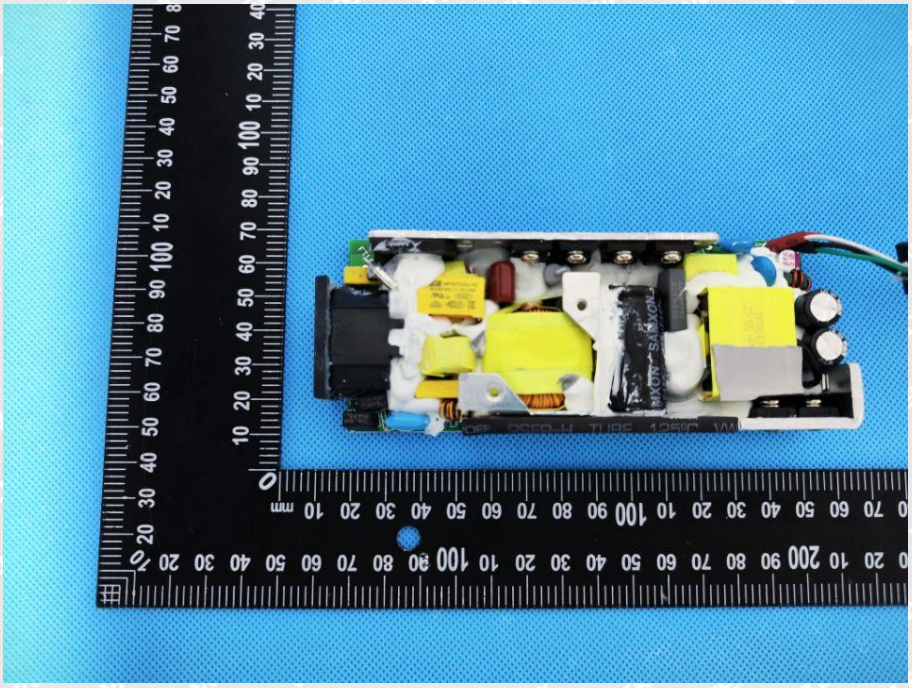
Solder Board-Component View 9



GTM9X1001P-6015-T2A
EUT Housing and Board View 10



Solder Board-Component View 11



Solder Board-Component View 12

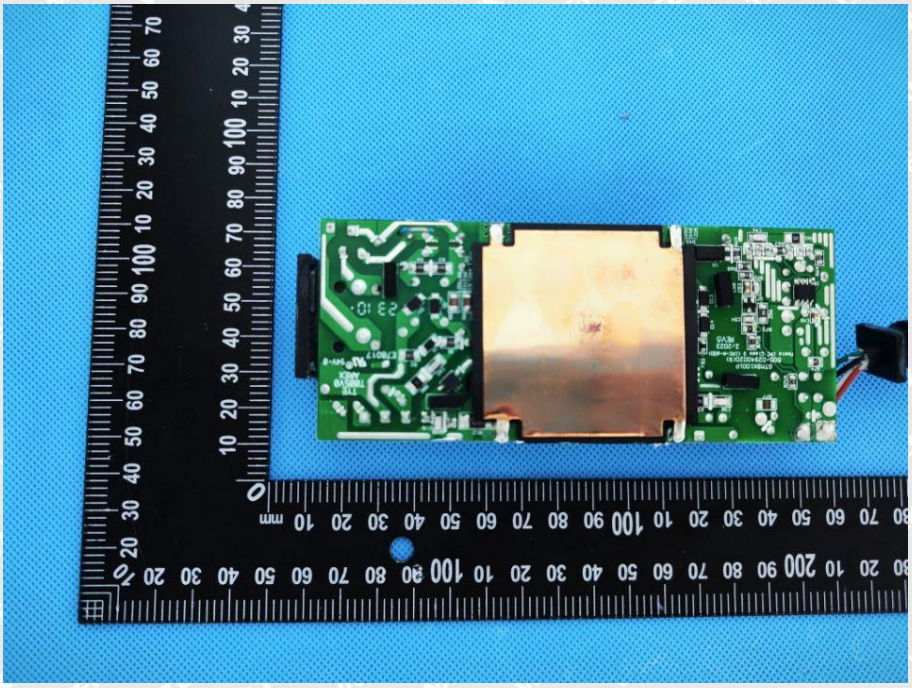
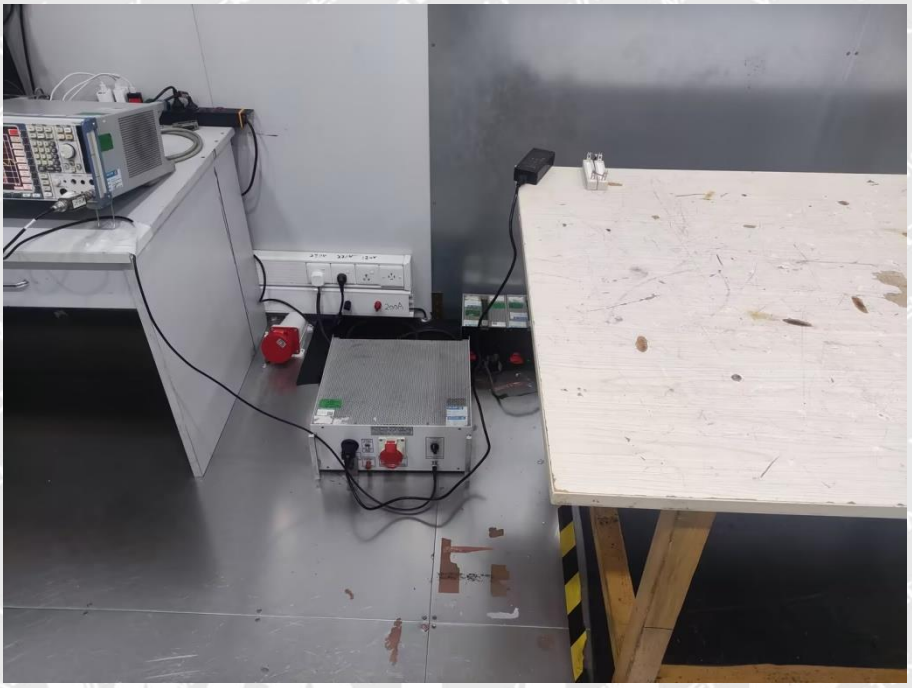


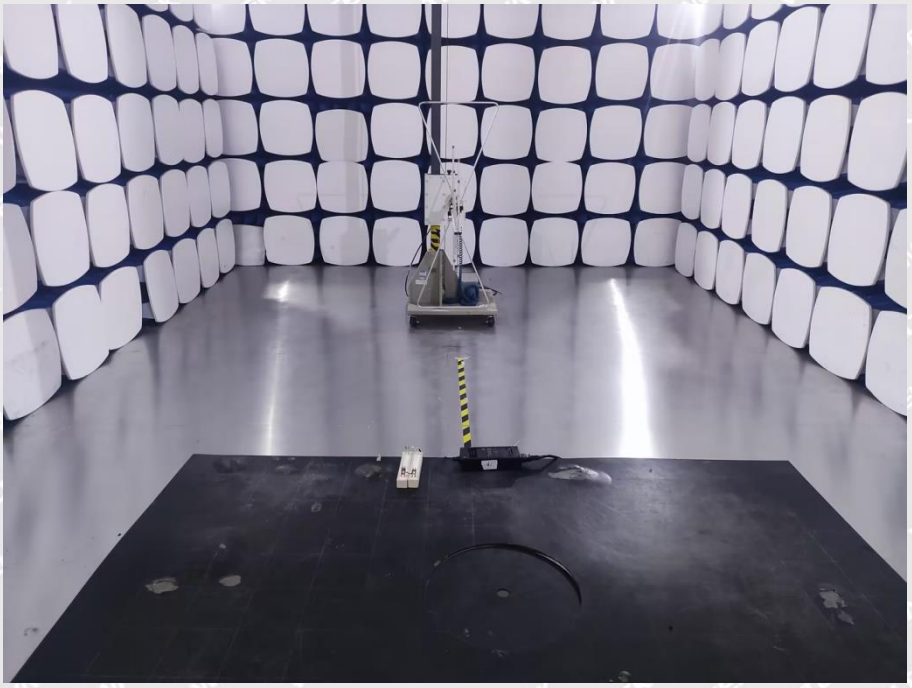
EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

Conduction Emission Test View

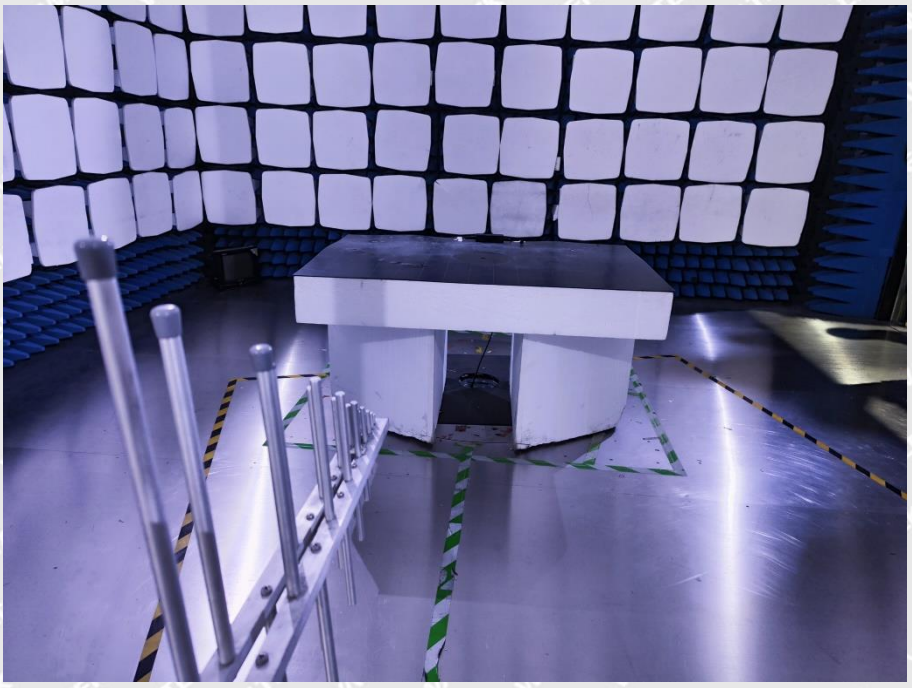


Conduction Emission Test View (TM9-TM10)

Radiation Emission Test View



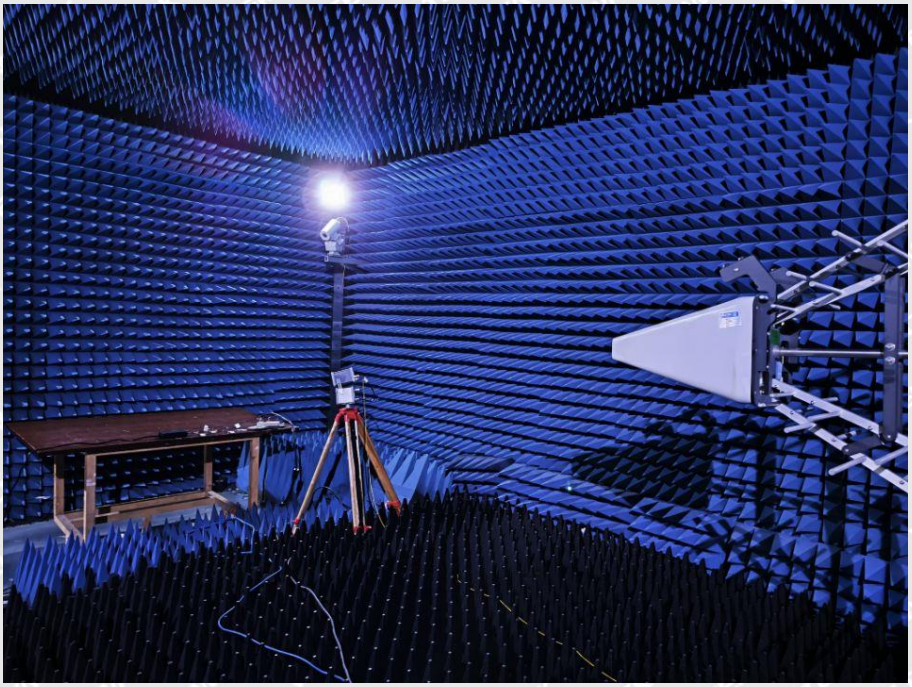
Radiation Emission Test View (TM9-TM10)



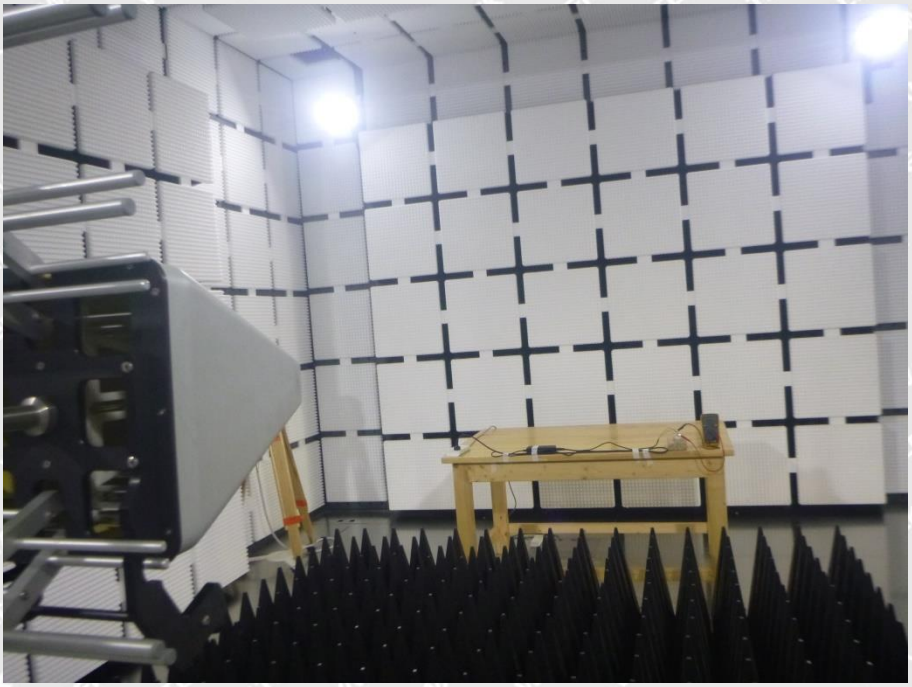
Harmonic/Flicker Test View

IEC 61000-4-2 Test View

IEC 61000-4-3 Test View

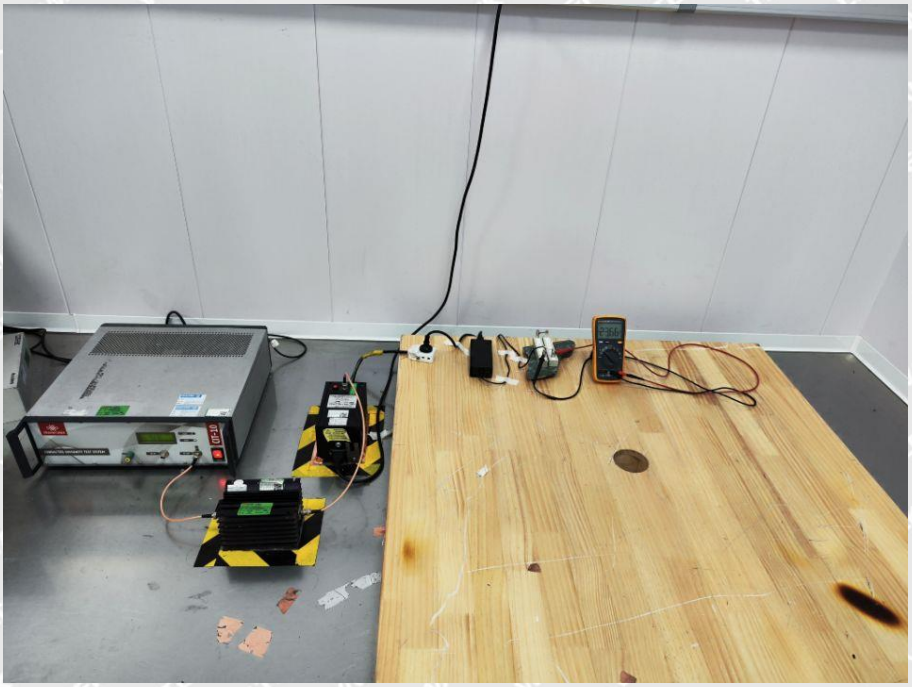


IEC 61000-4-3 Test View (8.5.2)

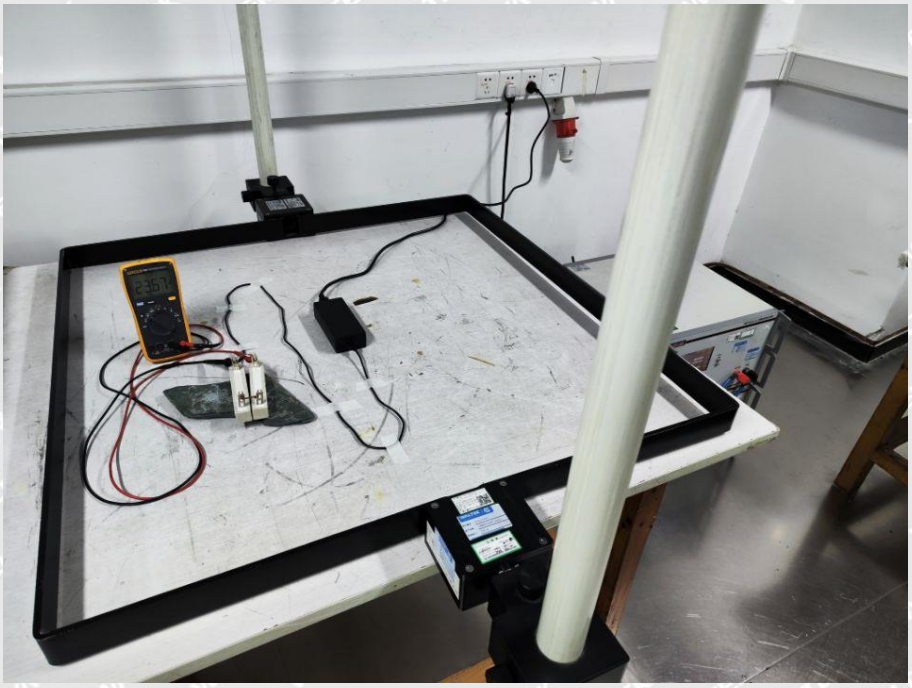


IEC 61000-4-4/5/11 Test View

IEC 61000-4-6 Test View



IEC 61000-4-8 Test View



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