TEST REPORT

Application No.:	GZEM2011016408LM
Applicant:	Foshan Electrical and Lighting Co., Ltd.
Address of Applicant:	64 North Fenjiang Road, Foshan, Guangdong, China
Manufacturer:	The same as applicant
Address of Manufacturer:	The same as applicant
Factory:	The same as applicant
Address of Factory:	The same as applicant
Equipment Under Test (EUT):	
EUT Name:	LED LAMP
Model No.:	A60-6-XX/A12J/14/5/M, A60-6-XX/A13J/14/5/M, A60-9-XX/A12J/14/5, A60-9-XX/A13J/14/5, A60-14-XX/A12J/14/M, A60-14-XX/A13J/14/M, G45-5.5-XX/A12F/11/3, G45-5.5-XX/A13F/11/3, G45-5.5-XX/A11F/11/3, C37-5.5-XX/A12F/11/3, C37-5.5-XX/A13F/11/3, C37-5.5-XX/A11F/11/3, GU10-6-XX/A159/14/XJ, A60-6.5-XX/G128/5Y2, A60-6.5-XX/G138/5Y2, C35-4-XX/G118/5Y2, MR16-6-XX/E165/14/2J (For all models except A60-6.5-XX/G128/5Y2, A60-6.5-XX/G138/5Y2 and C35-4-XX/G118/5Y2: XX="27-65", means color temperature, 27means 2700K, 65 means 6500K.For A60-6.5-XX/G128/5Y2, A60-6.5-XX/G138/5Y2 and C35-4-XX/G118/5Y2: XX="18-65", means color temperature, 18 means 1800K, 65 means 6500K.) ¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s):	EN IEC 55015:2019, EN 61000-3-2:2014 EN 61000-3-3:2013+A1:2019, EN 61547:2009
Date of Receipt:	2020-11-12
Date of Test:	2020-11-16 to 2020-12-15
Date of Issue:	2021-02-24
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

This report GZEM201101640803 supersedes the previous report GZEM201101640802, issued on 2021-01-05 which is hereby deemed null and void.

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

Kobe Jian
EMC Laboratory Manager

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center EEC Laboratory.

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2020-12-29		Original (NULL)
02		2021-01-05		Amendment report: Updated Model and photo for typing error (Null)
03		2021-02-24		Amendment report: Added color temperature notes for models for typing error

Authorized for issue by:				
Tested By		Michael Huang **Michael_Huang /Project Engineer**		2020-11-16 to 2020-12-15 **Date**
Checked By		Terry Lai **Terry_Lai /Reviewer**		2021-02-24 **Date**

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2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at Mains Terminals (9kHz-30MHz)	EN IEC 55015:2019	EN IEC 55015:2019	N/A	Pass
Radiated Emissions (30MHz-1GHz)	EN IEC 55015:2019	EN IEC 55015:2019	N/A	Pass
Radiated Emissions (Magnetic field Induced Current) (9kHz-30MHz)	EN IEC 55015:2019	EN IEC 55015:2019	N/A	Pass
Harmonic Current Emission	EN 61000-3-2:2014	EN 61000-3-2:2014	Class C	pass
Voltage Fluctuations and Flicker	EN 61000-3-3: 2013+A1:2019	EN 61000-3-3: 2013 +A1:2019	Clause 5 of EN 61000-3-3	Pass

N/A: Not applicable

Immunity Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Electrostatic Discharge	EN 61547:2009	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz)	EN 61547:2009	EN 61000-4-3:2006 +A1:2008+A2:2010	3V/m, 80%, 1kHz Amp. Mod.	Pass
Electrical Fast Transients/Burst at Power Port	EN 61547:2009	EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz Repetition Frequency	Pass
Surge at Power Port	EN 61547:2009	EN 61000-4-5:2014	1.2/50μs Tr/Td 0.5kV Line to Line	Pass
Conducted Immunity at Power Port (150kHz-80MHz)	EN 61547:2009	EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions	EN 61547:2009	EN 61000-4-11:2004	0 % UT for 0.5cycle 70 % UT for 10cycles UT is Supply Voltage	Pass

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¤ Declaration of EUT Family Grouping:

Model No.: A60-6-XX/A12J/14/5/M, A60-6-XX/A13J/14/5/M, A60-9-XX/A12J/14/5, A60-9-XX/A13J/14/5, A60-14-XX/A12J/14/M, A60-14-XX/A13J/14/M, G45-5.5-XX/A12F/11/3, G45-5.5-XX/A13F/11/3, G45-5.5-XX/A11F/11/3, C37-5.5-XX/A12F/11/3, C37-5.5-XX/A13F/11/3, C37-5.5-XX/A11F/11/3, GU10-6-XX/A159/14/XJ, A60-6.5-XX/G128/5Y2, A60-6.5-XX/G138/5Y2, C35-4-XX/G118/5Y2, MR16-6-XX/E165/14/2J

All models detail difference as below.

Model	PCB layout and circuit	Difference	Rated Power(W)
A60-6-XX/A12J/14/5/M, **A60-6-XX/A13J/14/5/M**	same	color temperature and lamp cap	6
A60-9-XX/A12J/14/5, **A60-9-XX/A13J/14/5**	same	color temperature and lamp cap	9
A60-14-XX/A12J/14/M, A60-14-XX/A13J/14/M	same	color temperature and lamp cap	14
G45-5.5-XX/A12F/11/3, G45-5.5-XX/A13F/11/3, G45-5.5-XX/A11F/11/3	same	color temperature and lamp cap	5.5
GU10-6-XX/A159/14/XJ	/	/	6
C37-5.5-XX/A12F/11/3, C37-5.5-XX/A13F/11/3, **C37-5.5-XX/A11F/11/3**	same	color temperature and lamp cap	5.5
A60-6.5-XX/G128/5Y2	/	/	6.5
A60-6.5-XX/G138/5Y2	/	/	6.5
C35-4-XX/G118/5Y2	/	/	4
MR16-6-XX/E165/14/2J	/	/	6

Therefore, models A60-6-XX/A13J/14/5/M, A60-9-XX/A13J/14/5, A60-14-XX/A12J/14/M, G45-5.5-XX/A12F/11/3, GU10-6-XX/A159/14/XJ, C37-5.5-XX/A11F/11/3

A60-6.5-XX/G128/5Y2, A60-6.5-XX/G138/5Y2, C35-4-XX/G118/5Y2, MR16-6-XX/E165/14/2J were tested in this report.

Remark for report GZEM201101640802:

This report GZEM201101640802 supersedes the previous report GZEM201101640801, Updated Model and photo for typing error.

Data in report GZEM201101640801 was kept in this report GZEM201101640802.

Remark for report GZEM201101640803:

This report GZEM201101640803 supersedes the previous report GZEM201101640802, Added color temperature notes for models for typing error.

Data in report GZEM201101640802 was kept in this report GZEM201101640803.

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4 General Information

4.1 Details of E.U.T.

Power Supply: AC 220-240V 50/60Hz
Test Voltage: AC 230V 50Hz
Cable: 2 Pins, AC input
2 wires x about 1.0m unscreened AC mains cable.
(The AC cable and lamp holder, supply by the SGS).

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Use the GU10, E27, B22 of lamp holder, supply by the SGS.	/	/	/
Use the LED driver, supply by the client for model MR16-6-XX/E165/14/2J	/	model: FSL, Input: AC 100-240V 50/60Hz. Output: DC 46.6V	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Disturbance Voltage at Mains Terminals	3.63dB (9kHz to 150kHz)
		3.22dB (150kHz to 30MHz)
2	Disturbance Power	3.78dB
3	Radiated Emissions	5.0dB (30MHz-1GHz)
		5.2dB (1GHz-6GHz)
		5.5dB (6GHz-18GHz)

4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

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4.5 Test Facility

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

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

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

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

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

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

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

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

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

- **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584，G-10449 and T-11179 respectively.

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

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

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4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None

4.8 Monitoring of EUT for All Immunity Test

Visual: LED lighting of the EUT.

Audio: N/A

Other: N/A

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5 Equipment List

Conducted Emissions at Mains Terminals (9kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2020-01-10	2021-01-09
LISN	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2020-11-13	2021-11-12
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Voltage Probe	SGS-EMC	N/A	EMC0106	2019-05-10	2021-05-09
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2020-04-19	2022-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-08	2023-06-07
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2020-11-13	2021-11-12
Active Loop Antenna	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

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Radiated Emissions (Magnetic field Induced Current)(9kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Loop Antenna	ZHINAN	ZN30401	EMC2187	2020-03-27	2022-03-26
Coaxial Cable	INFINITE	CC223N-10	EMC0703	2019-06-28	2021-06-27
MXE EMI Receiver	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Voltage Fluctuations and Flicker					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
AC Power Source	California	50001iX	EMC0608	2020-03-27	2021-03-26
Power Analyzer	California	PACS	EMC0607	2020-03-27	2021-03-26
Test Software CTS4	California	Ver 4.14.0	GZE100-66	N/A	N/A

Electrostatic Discharge					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
ESD Simulator	TESEQ AG	NSG 435	EMC2071	2020-06-30	2021-06-30
ESD Simulator	EMTEST	NX30	EMC2186	2020-03-02	2021-03-01
ESD Ground Plane	SGS-EMC	3m x 3m	EMC0804	N/A	N/A
Temperature & Humidity	Shanghai Meteorological Instrument Factory Co., Ltd.	ZJ1-2B	EMC0078	2020-07-04	2021-07-03

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Radiated Immunity (80MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19
Laser Probe Interface	RF Microwave Instrumentation	FI7000	EMC2089	N/A	N/A
Open Switch And Control Unit	Rohde & Schwarz	OSP130	EMC2090	N/A	N/A
Broadband Amplifier(80MHz~1GHz/ 250W)	Rohde & Schwarz	BBA150	EMC2091	2020-01-10	2021-01-09
Broadband Amplifier(800MHz~3GHz /110W)	Rohde & Schwarz	BBA150	EMC2092	2020-01-10	2021-01-09
Signal Generator	Rohde & Schwarz	SMB100A	EMC2093	2020-01-10	2021-01-09
Laser Probe	RF Microwave Instrumentation	FL7006	EMC2094	2020-03-02	2021-03-21
NRP-Z91 Power Sensor 6GHz	Rohde & Schwarz	NPR-Z91	EMC2095	2020-01-10	2021-01-09
NRP-Z91 Power Sensor 6GHz	Rohde & Schwarz	NPR-Z91	EMC2096	2020-01-10	2021-01-09
High-Gain Log-preiodic Antenna	Rohde & Schwarz	HL046E	EMC2097	2019-02-15	2022-02-14
Stacked Logarithmic-Periodic Broadband Antenna (0.7~9GHz)/300W	SCHWARZBECK MESS - ELEKTRONIK	STLP 9149	SEM003-21	2018-09-18	2021-09-17
Broadband Amplifier （2.5~6GHZ/30W)	Rohde & Schwarz	BBA150	EMC2105	2020-09-18	2021-09-17
RI Cable	Rohde & Schwarz	7m	EMC2098	2020-05-24	2021-05-23
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
Audio Analyzer	Keysight	U8903B	EMC2180	2020-09-18	2021-09-17
Monitor System	Mitsubish Corp.	M-0552AB	EMC0909	N/A	N/A
Test Software EMC32	Rohde & Schwarz	Ver. 9.26.00	GZE100-63	N/A	N/A

Electrical Fast Transients/Burst at Power Port					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMC Immunity Test System	TESEQ AG	NSG 3060CDN3061I NA 6502 CIBCND3425	EMC2072	2020-01-10	2021-01-09
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

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Surge at Power Port					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Modular Impulse Surge Generator	EMC PARTNER	MIG0603EN	EMC2059	2020-01-10	2021-01-09
EMC Immunity Test System	TESEQ AG	NSG 3060CDN3061I NA 6502 CIBCND3425	EMC2072	2020-01-10	2021-01-09
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

Conducted Immunity at Power Port (150kHz-80MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Test System for Conducted and Radiated Immunity	TESEQ AG	NSG 4070B-80	EMC2115	2020-11-30	2021-11-29
Test Software NSG4070_Ctrl1	TESEQ AG	Ver.1.3.0.1	GZE100-72	N/A	N/A
CDN S502A	TESEQ AG	CDN S502A	EMC2113	2019-07-13	2021-07-12
CDN ST08A	TESEQ AG	CDN ST08A	EMC2112	2019-07-13	2021-07-12
CDN USB3.0	TESEQ AG	CDN USB3.0	EMC2114	2019-07-13	2021-07-12
Dual Directional coupler	Werlatone Inc.	C1795	EMC1105	2020-05-26	2021-05-25
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
CDN	Elektronik-Feinmechanik	L-801:M2/M3	EMC2048	2020-08-21	2022-08-20
CDN M2	Schaffner Chase	CDN-M2-16	EMC1107	2020-10-23	2023-10-22
Current Probe	Schaffner Chase	CIP9136	EMC1116	2020-03-27	2022-03-26
Current Probe	Schaffner Chase	CSP8445	EMC1117	2020-03-27	2022-03-26
Audio Analyzer	Keysight	U8903B	EMC2180	2020-09-18	2021-09-17

Voltage Dips and Interruptions					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMC Immunity Test System	TESEQ AG	NSG 3060CDN3061I NA 6502 CIBCND3425	EMC2072	2020-01-10	2021-01-09
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2020-07-09	2021-07-08
DMM	Fluke	73	EMC0007	2020-07-09	2021-07-08

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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (9kHz-30MHz)

Test Requirement:	EN IEC 55015:2019
Test Method:	EN IEC 55015:2019
Frequency Range:	9kHz to 30MHz
Limit:	
0.009MHz – 0.05MHz	110dB(μV) quasi-peak
0.05MHz – 0.15MHz	90dB(μV)-80dB(μV) quasi-peak
0.15MHz – 0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5MHz – 5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5MHz – 30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz
	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

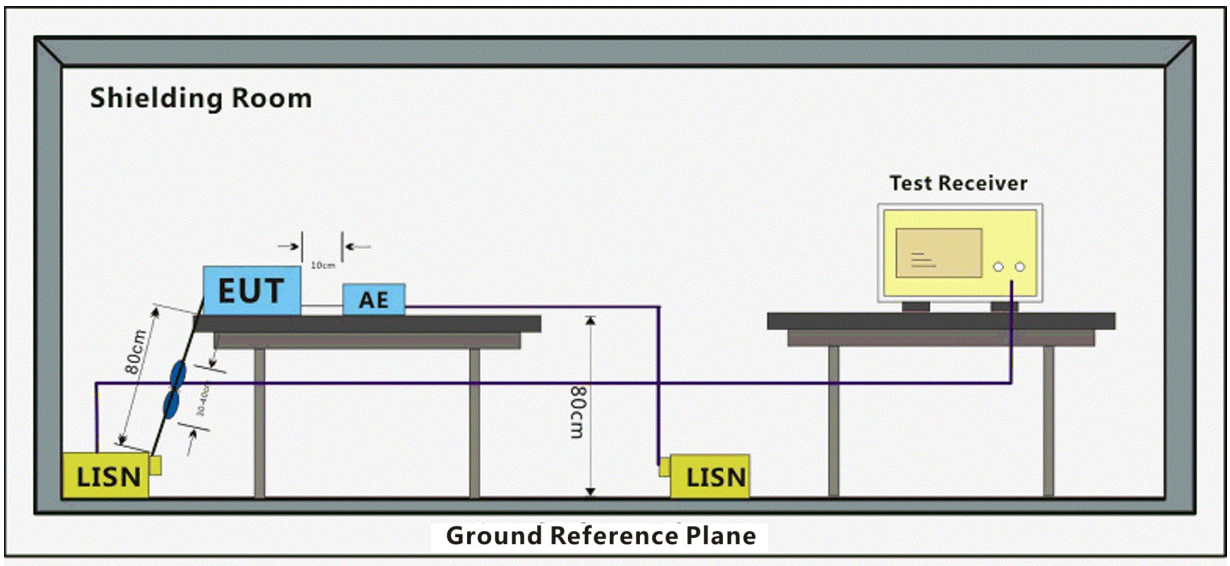
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

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

Measured Level = Read level + Cable Loss + LISN Factor

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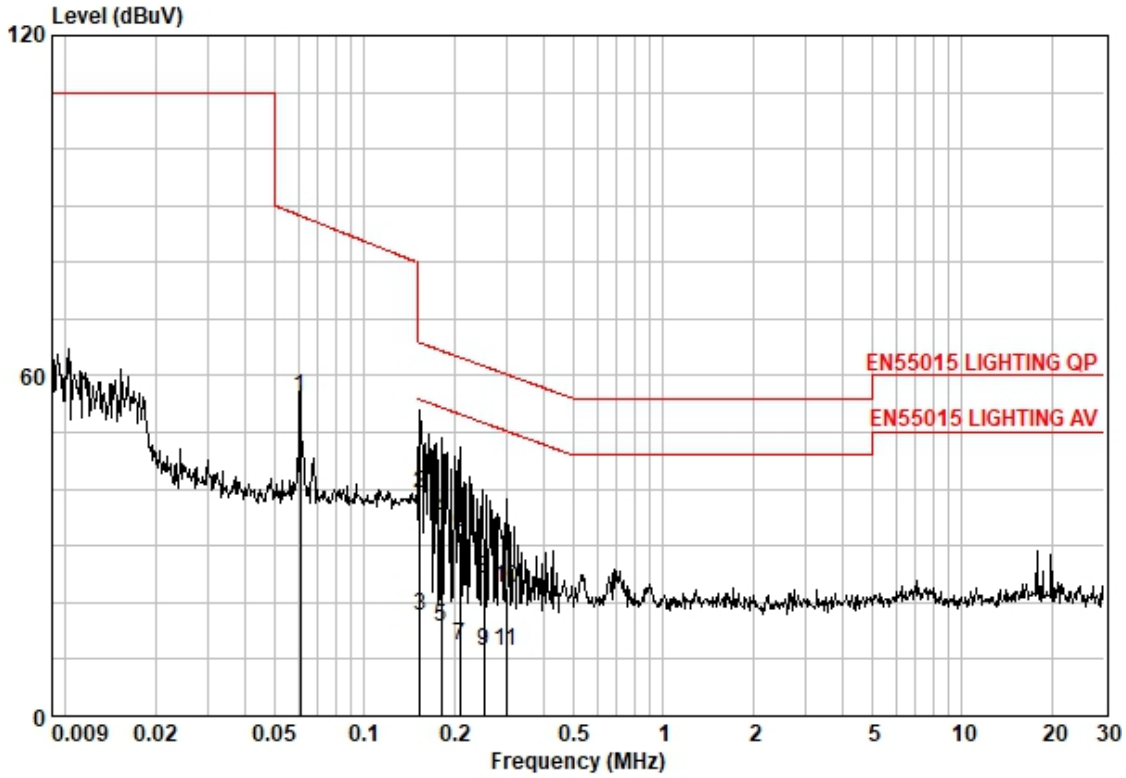
Mode:a; Line:Live Line; model: A60-14-XX/A12J/14/M



Pol :LIVE
Mode :M1
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	46.41	0.05	9.65	56.11	88.22	-32.11	QP
0.15	29.44	0.06	9.61	39.11	65.82	-26.72	QP
0.15	7.96	0.06	9.61	17.63	55.82	-38.20	AVERAGE
0.18	25.11	0.06	9.61	34.78	64.42	-29.64	QP
0.18	5.93	0.06	9.61	15.60	54.42	-38.82	AVERAGE
0.21	22.77	0.06	9.60	32.43	63.23	-30.80	QP
0.21	2.91	0.06	9.60	12.57	53.23	-40.66	AVERAGE
0.25	14.47	0.06	9.61	24.14	61.73	-37.59	QP
0.25	1.72	0.06	9.61	11.39	51.73	-40.34	AVERAGE
0.30	12.87	0.06	9.60	22.53	60.28	-37.75	QP
0.30	1.62	0.06	9.60	11.28	50.28	-39.00	AVERAGE

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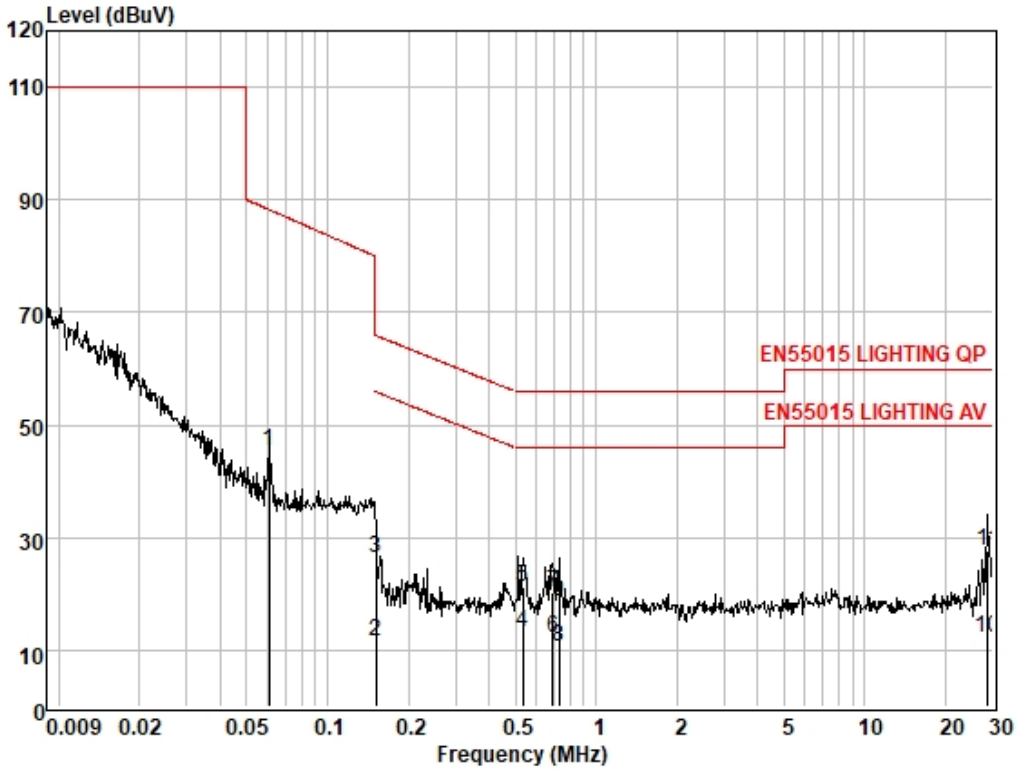
Mode:a; Line:Live Line; model: A60-6.5-XX/G138/5Y2



Pol :LINE
Mode :M7
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.06	35.81	0.05	9.65	45.51	88.25	-42.74	QP
0.15	1.94	0.06	9.62	11.62	55.91	-44.29	Average
0.15	16.63	0.06	9.62	26.31	65.91	-39.60	QP
0.53	3.63	0.07	9.63	13.33	46.00	-32.67	Average
0.53	11.66	0.07	9.63	21.36	56.00	-34.64	QP
0.69	2.55	0.07	9.63	12.25	46.00	-33.75	Average
0.69	10.57	0.07	9.63	20.27	56.00	-35.73	QP
0.73	0.97	0.07	9.63	10.67	46.00	-35.33	Average
0.73	8.90	0.07	9.63	18.60	56.00	-37.40	QP
28.75	1.86	0.43	9.97	12.26	50.00	-37.74	Average
28.75	17.19	0.43	9.97	27.59	60.00	-32.41	QP

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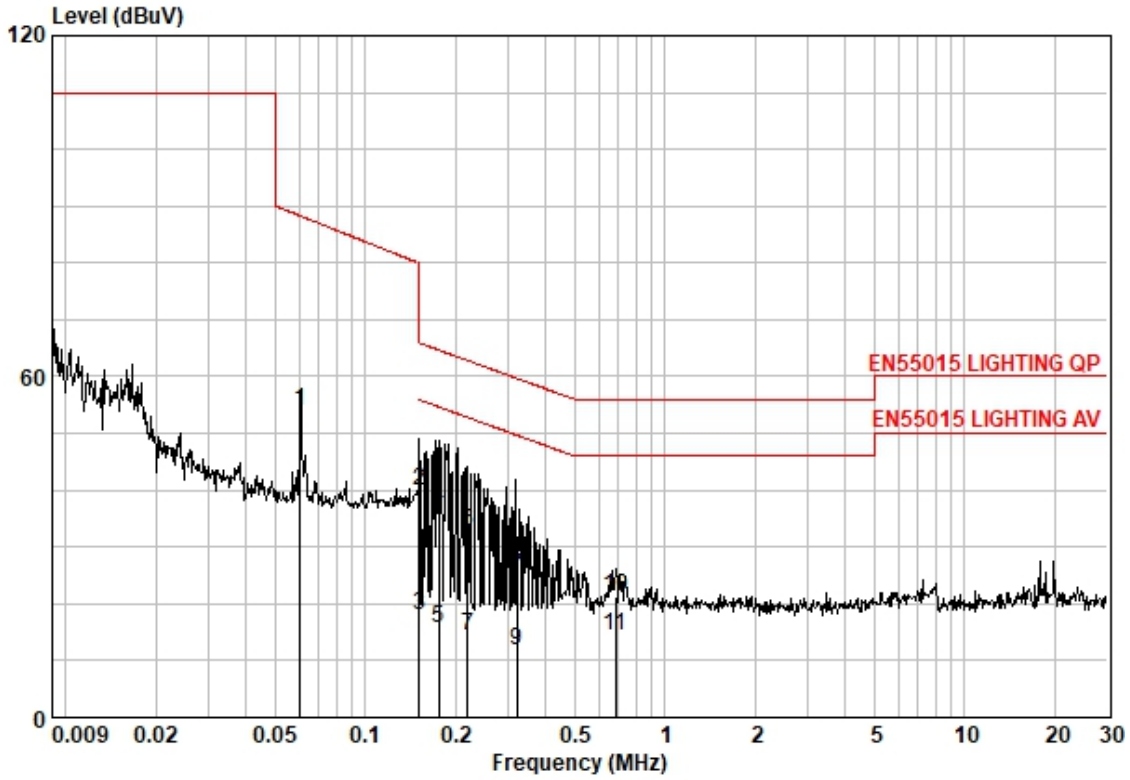
Mode:a; Line:Live Line; model: A60-6-XX/A13J/14/5/M



Pol :LIVE
Mode :M2
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	44.13	0.05	9.65	53.83	88.25	-34.41	QP
0.15	30.23	0.06	9.61	39.90	65.91	-26.01	QP
0.15	8.39	0.06	9.61	18.06	55.91	-37.85	AVERAGE
0.18	27.31	0.06	9.61	36.98	64.68	-27.70	QP
0.18	5.99	0.06	9.61	15.66	54.68	-39.02	AVERAGE
0.22	23.07	0.06	9.60	32.73	62.83	-30.10	QP
0.22	4.70	0.06	9.60	14.36	52.83	-38.47	AVERAGE
0.32	16.95	0.06	9.60	26.61	59.71	-33.09	QP
0.32	2.11	0.06	9.60	11.77	49.71	-37.93	AVERAGE
0.68	11.46	0.07	9.61	21.14	56.00	-34.86	QP
0.68	4.70	0.07	9.61	14.38	46.00	-31.62	AVERAGE

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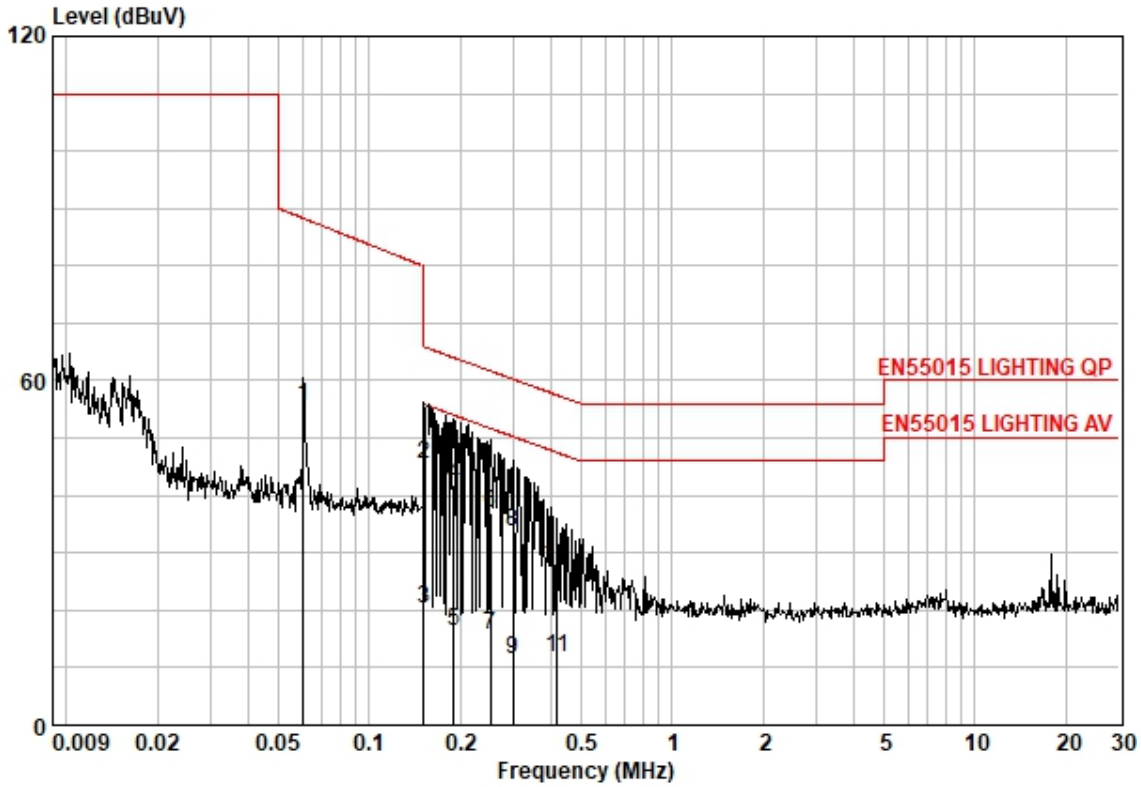
Mode:a; Line:Live Line; model: A60-9-XX/A12J/14/5



Pol :LIVE
Mode :M3
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	45.99	0.05	9.65	55.69	88.25	-32.55	QP
0.15	35.70	0.06	9.61	45.37	65.91	-20.54	QP
0.15	10.65	0.06	9.61	20.32	55.91	-35.59	AVERAGE
0.19	32.30	0.06	9.60	41.96	64.02	-22.06	QP
0.19	6.78	0.06	9.60	16.44	54.02	-37.58	AVERAGE
0.25	27.23	0.06	9.61	36.90	61.69	-24.79	QP
0.25	5.95	0.06	9.61	15.62	51.69	-36.07	AVERAGE
0.30	23.89	0.06	9.60	33.55	60.28	-26.73	QP
0.30	1.91	0.06	9.60	11.57	50.28	-38.71	AVERAGE
0.42	17.96	0.06	9.61	27.63	57.51	-29.87	QP
0.42	1.99	0.06	9.61	11.66	47.51	-35.84	AVERAGE

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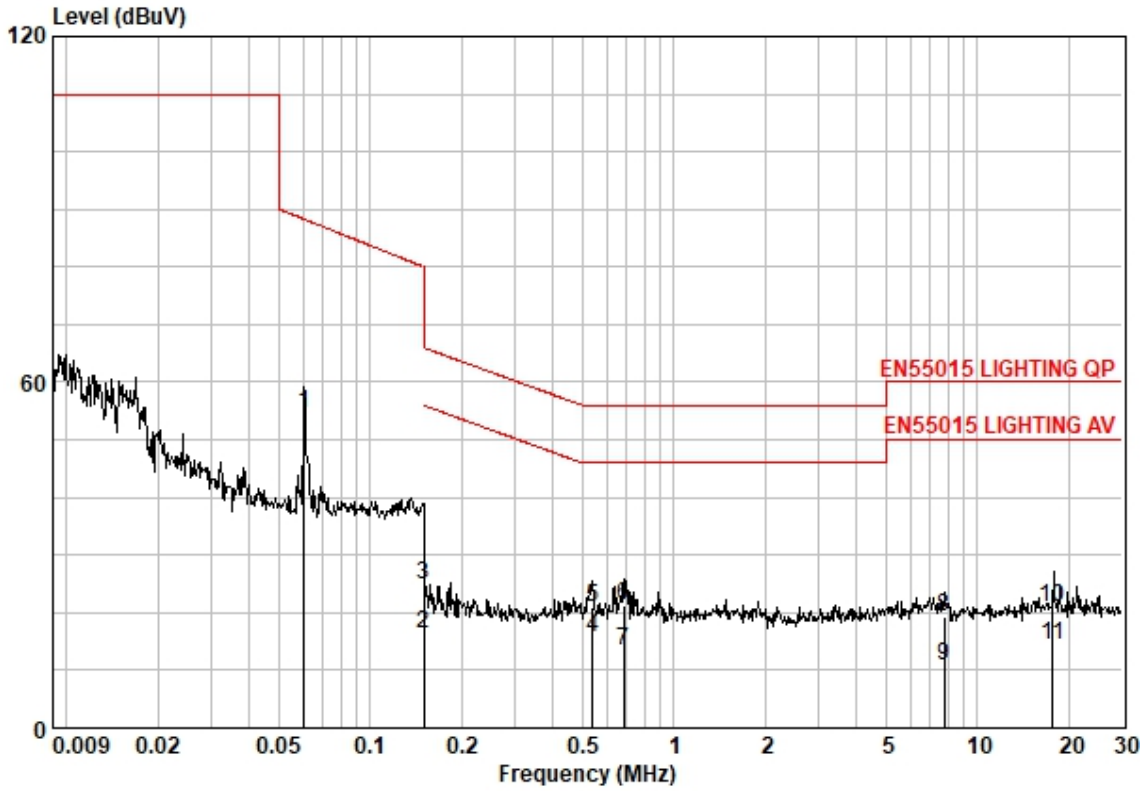
Mode:a; Line:Live Line; model: G45-5.5-XX/A12F/11/3



Pol :LIVE
Mode :M4
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	44.79	0.05	9.65	54.49	88.25	-33.75	QP
0.15	6.84	0.06	9.61	16.51	56.00	-39.49	AVERAGE
0.15	15.27	0.06	9.61	24.94	66.00	-41.06	QP
0.54	5.89	0.07	9.61	15.57	46.00	-30.43	AVERAGE
0.54	11.19	0.07	9.61	20.87	56.00	-35.13	QP
0.68	11.54	0.07	9.61	21.22	56.00	-34.78	QP
0.68	3.61	0.07	9.61	13.29	46.00	-32.71	AVERAGE
7.81	9.37	0.21	9.69	19.28	60.00	-40.72	QP
7.81	0.93	0.21	9.69	10.84	50.00	-39.16	AVERAGE
17.75	10.86	0.34	9.81	21.01	60.00	-38.99	QP
17.75	4.18	0.34	9.81	14.33	50.00	-35.67	AVERAGE

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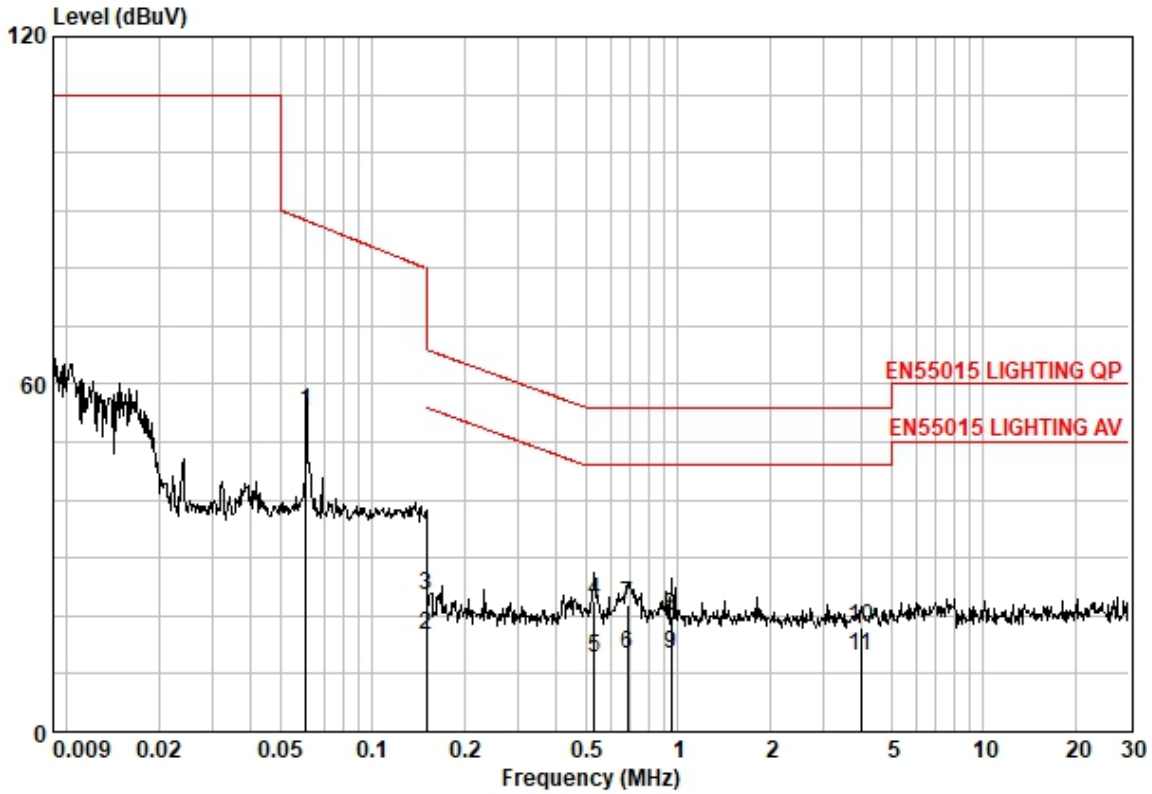
Mode:a; Line:Live Line; model: GU10-6-XX/A159/14/XJ



Pol :LIVE
Mode :M5
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	45.56	0.05	9.65	55.26	88.25	-32.98	QP
0.15	7.09	0.06	9.61	16.76	56.00	-39.24	AVERAGE
0.15	13.77	0.06	9.61	23.44	66.00	-42.56	QP
0.53	12.83	0.07	9.61	22.51	56.00	-33.49	QP
0.53	3.08	0.07	9.61	12.76	46.00	-33.24	AVERAGE
0.68	3.65	0.07	9.61	13.33	46.00	-32.67	AVERAGE
0.68	12.10	0.07	9.61	21.78	56.00	-34.22	QP
0.95	10.35	0.07	9.61	20.03	56.00	-35.97	QP
0.95	3.77	0.07	9.61	13.45	46.00	-32.55	AVERAGE
3.96	8.28	0.17	9.64	18.09	56.00	-37.91	QP
3.96	3.41	0.17	9.64	13.22	46.00	-32.78	AVERAGE

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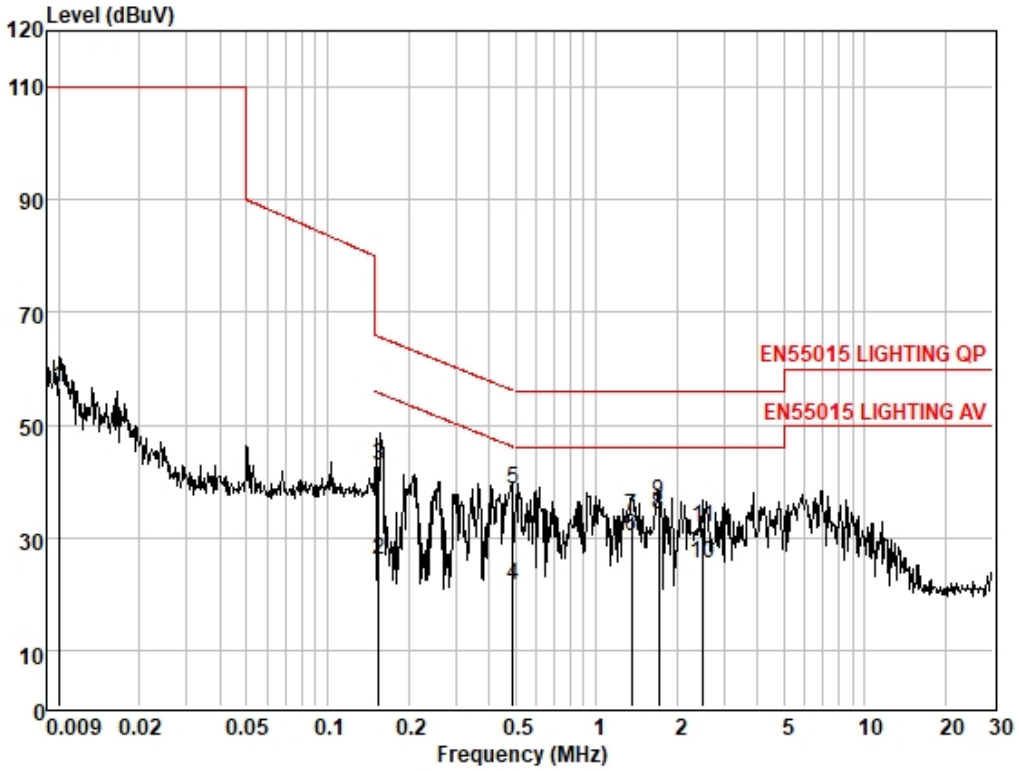

Pol :LINE
Mode :M10
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.01	46.32	0.04	10.29	56.65	110.00	-53.35	QP
0.16	16.48	0.06	9.62	26.16	55.69	-29.53	Average
0.16	33.10	0.06	9.62	42.78	65.69	-22.91	QP
0.49	11.99	0.07	9.63	21.69	46.19	-24.50	Average
0.49	28.91	0.07	9.63	38.61	56.19	-17.58	QP
1.35	20.62	0.09	9.61	30.32	46.00	-15.68	Average
1.35	23.96	0.09	9.61	33.66	56.00	-22.34	QP
1.71	24.25	0.11	9.61	33.97	46.00	-12.03	Average
1.71	26.66	0.11	9.61	36.38	56.00	-19.62	QP
2.51	15.73	0.13	9.62	25.48	46.00	-20.52	Average
2.51	22.18	0.13	9.62	31.93	56.00	-24.07	QP

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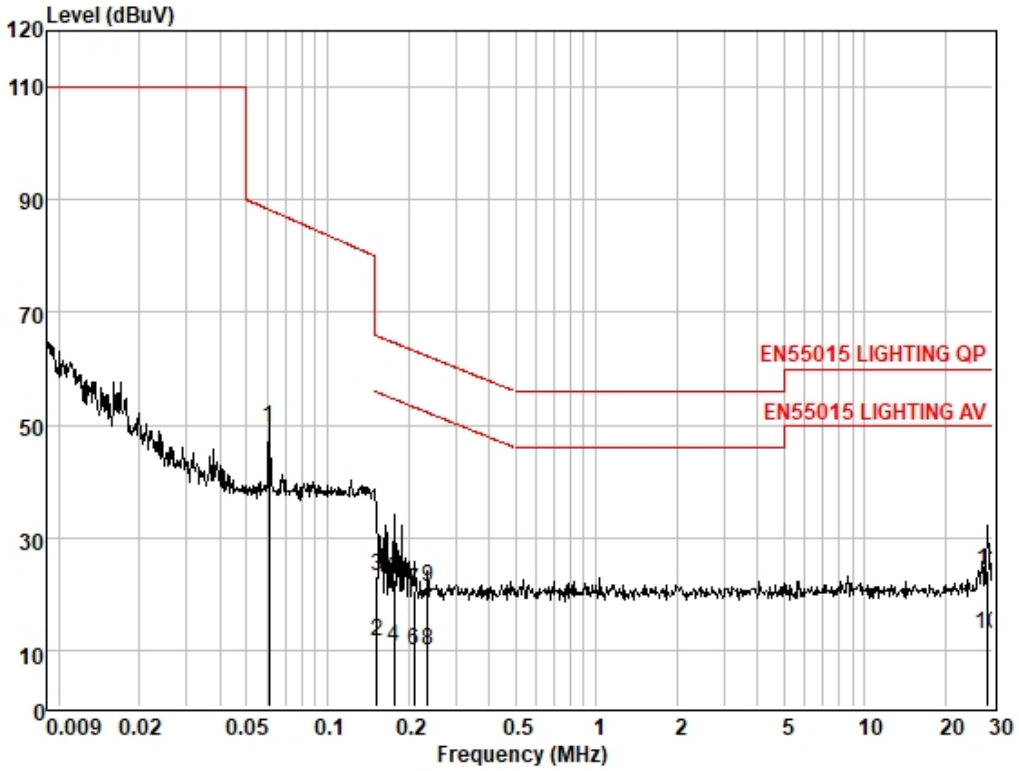

Pol :LINE
Mode :M6
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.06	39.88	0.05	9.65	49.58	88.25	-38.67	QP
0.15	1.97	0.06	9.62	11.65	55.87	-44.22	Average
0.15	13.58	0.06	9.62	23.26	65.87	-42.61	QP
0.18	1.02	0.06	9.62	10.70	54.59	-43.89	Average
0.18	12.84	0.06	9.62	22.52	64.59	-42.07	QP
0.21	0.44	0.06	9.63	10.13	53.18	-43.05	Average
0.21	11.00	0.06	9.63	20.69	63.18	-42.49	QP
0.24	0.44	0.06	9.62	10.12	52.26	-42.14	Average
0.24	11.50	0.06	9.62	21.18	62.26	-41.08	QP
28.75	2.56	0.43	9.97	12.96	50.00	-37.04	Average
28.75	13.72	0.43	9.97	24.12	60.00	-35.88	QP

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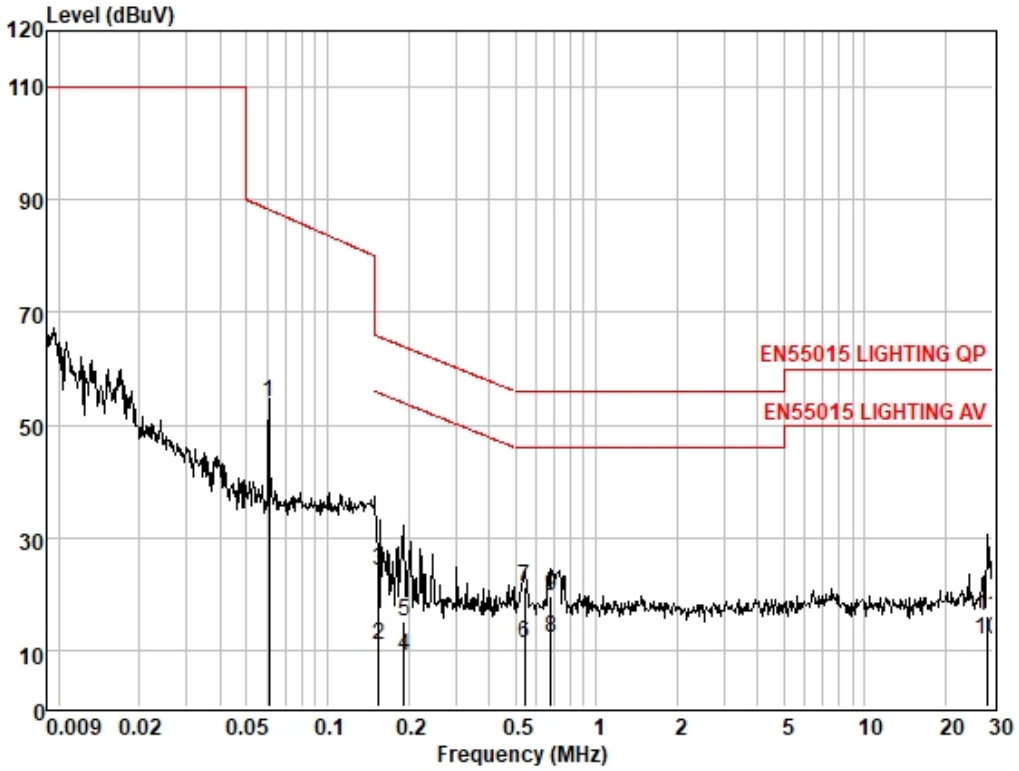
Mode:a; Line:Live Line; model: C35-4-XX/G118/5Y2



Pol :LINE
Mode :M9
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.06	44.20	0.05	9.65	53.90	88.27	-34.37	QP
0.16	1.20	0.06	9.62	10.88	55.69	-44.81	Average
0.16	14.43	0.06	9.62	24.11	65.69	-41.58	QP
0.19	-0.74	0.06	9.63	8.95	53.89	-44.94	Average
0.19	5.41	0.06	9.63	15.10	63.89	-48.79	QP
0.54	1.71	0.07	9.63	11.41	46.00	-34.59	Average
0.54	11.38	0.07	9.63	21.08	56.00	-34.92	QP
0.68	2.65	0.07	9.63	12.35	46.00	-33.65	Average
0.68	9.83	0.07	9.63	19.53	56.00	-36.47	QP
28.75	1.62	0.43	9.97	12.02	50.00	-37.98	Average
28.75	5.67	0.43	9.97	16.07	60.00	-43.93	QP

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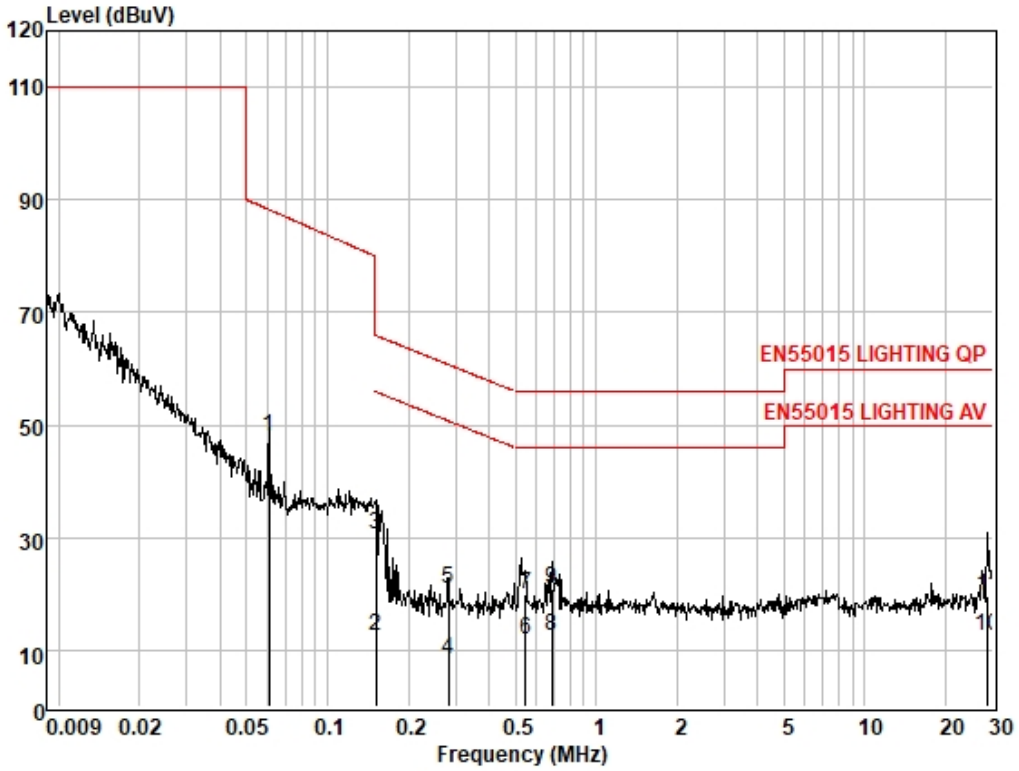

Pol :LINE
Mode :M8
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.06	38.35	0.05	9.65	48.05	88.25	-40.20	QP
0.15	2.78	0.06	9.62	12.46	55.91	-43.45	Average
0.15	20.78	0.06	9.62	30.46	65.91	-35.45	QP
0.28	-1.23	0.06	9.62	8.45	50.76	-42.31	Average
0.28	11.38	0.06	9.62	21.06	60.76	-39.70	QP
0.55	2.15	0.07	9.63	11.85	46.00	-34.15	Average
0.55	10.36	0.07	9.63	20.06	56.00	-35.94	QP
0.69	2.99	0.07	9.63	12.69	46.00	-33.31	Average
0.69	11.17	0.07	9.63	20.87	56.00	-35.13	QP
28.75	2.28	0.43	9.97	12.68	50.00	-37.32	Average
28.75	9.35	0.43	9.97	19.75	60.00	-40.25	QP

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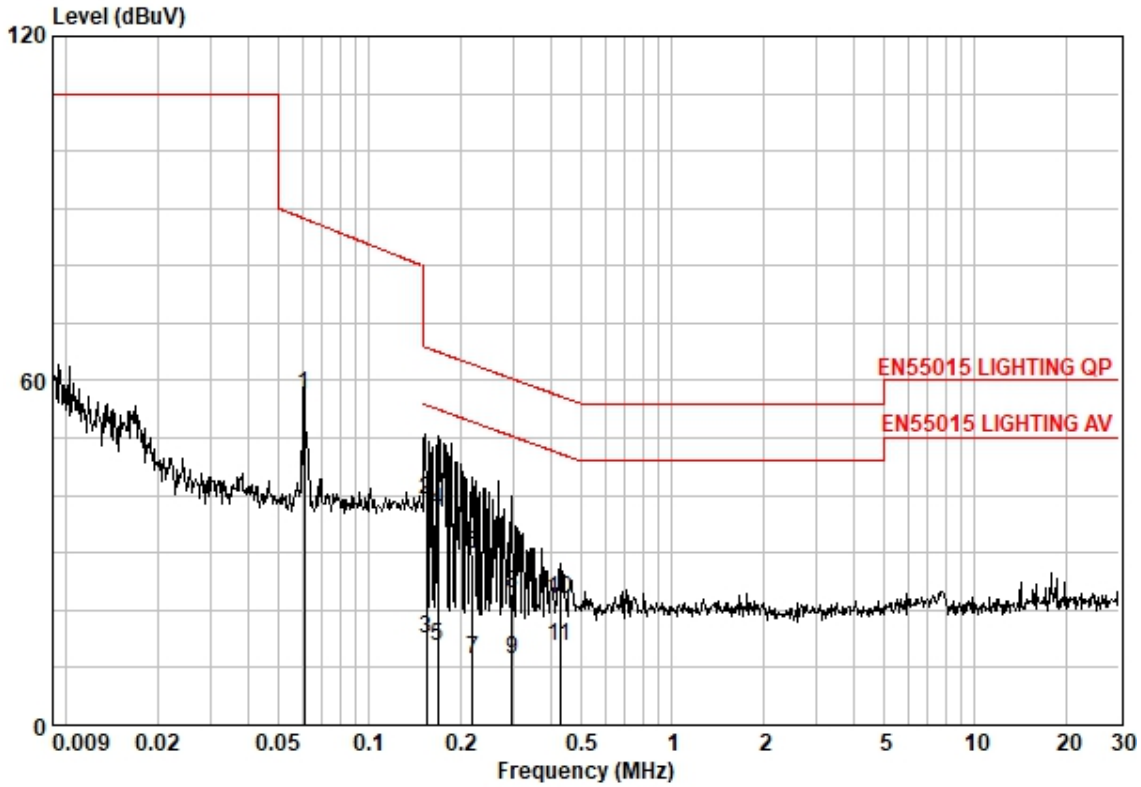
Mode:a; Line:Neutral Line; model: A60-14-XX/A12J/14/M



Pol :NEUTRAL
Mode :M1
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	47.95	0.05	9.63	57.63	88.22	-30.59	QP
0.15	29.66	0.06	9.61	39.33	65.78	-26.45	QP
0.15	5.38	0.06	9.61	15.05	55.78	-40.73	AVERAGE
0.17	27.70	0.06	9.62	37.38	65.03	-27.65	QP
0.17	4.00	0.06	9.62	13.68	55.03	-41.35	AVERAGE
0.22	20.21	0.06	9.62	29.89	62.83	-32.94	QP
0.22	1.69	0.06	9.62	11.37	52.83	-41.46	AVERAGE
0.30	13.35	0.06	9.63	23.04	60.32	-37.28	QP
0.30	1.68	0.06	9.63	11.37	50.32	-38.95	AVERAGE
0.43	12.32	0.06	9.64	22.02	57.29	-35.26	QP
0.43	3.93	0.06	9.64	13.63	47.29	-33.65	AVERAGE

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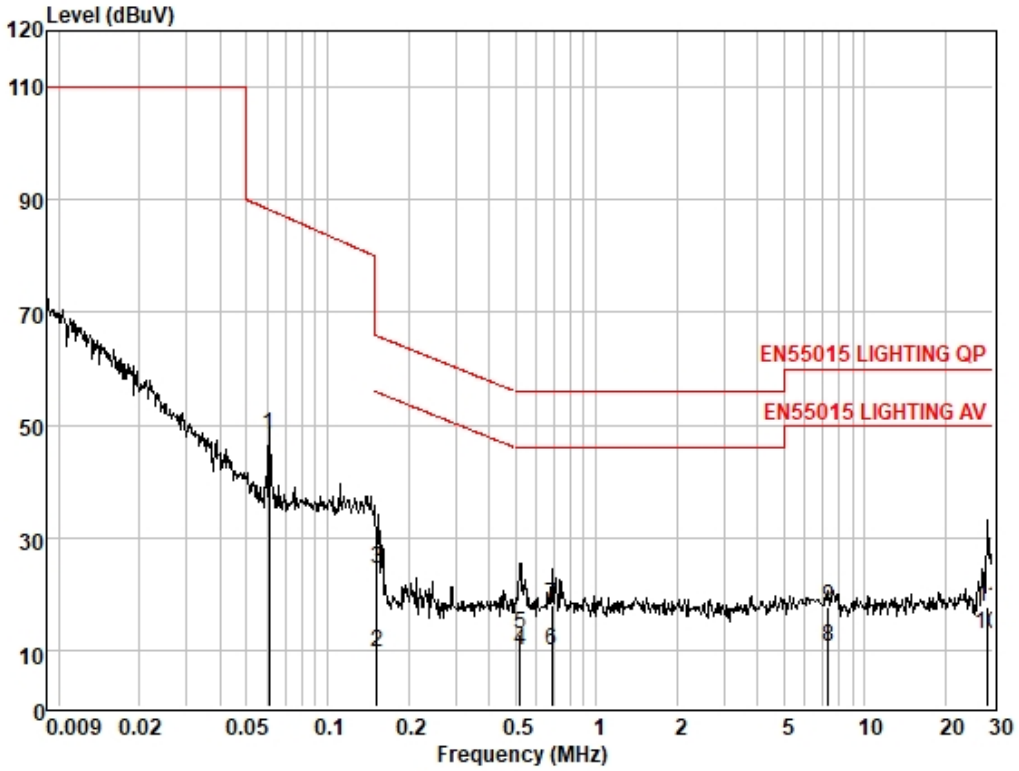
Mode:a; Line:Neutral Line; model: A60-6.5-XX/G138/5Y2



Pol :NEUTRAL
Mode :M7
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.06	38.69	0.05	9.58	48.32	88.25	-39.93	QP
0.15	0.18	0.06	9.55	9.79	55.82	-46.03	Average
0.15	14.85	0.06	9.55	24.46	65.82	-41.36	QP
0.52	0.26	0.07	9.55	9.88	46.00	-36.12	Average
0.52	3.34	0.07	9.55	12.96	56.00	-43.04	QP
0.69	0.47	0.07	9.55	10.09	46.00	-35.91	Average
0.69	8.25	0.07	9.55	17.87	56.00	-38.13	QP
7.33	0.86	0.21	9.58	10.65	50.00	-39.35	Average
7.33	7.75	0.21	9.58	17.54	60.00	-42.46	QP
28.75	2.65	0.43	9.90	12.98	50.00	-37.02	Average
28.75	7.27	0.43	9.90	17.60	60.00	-42.40	QP

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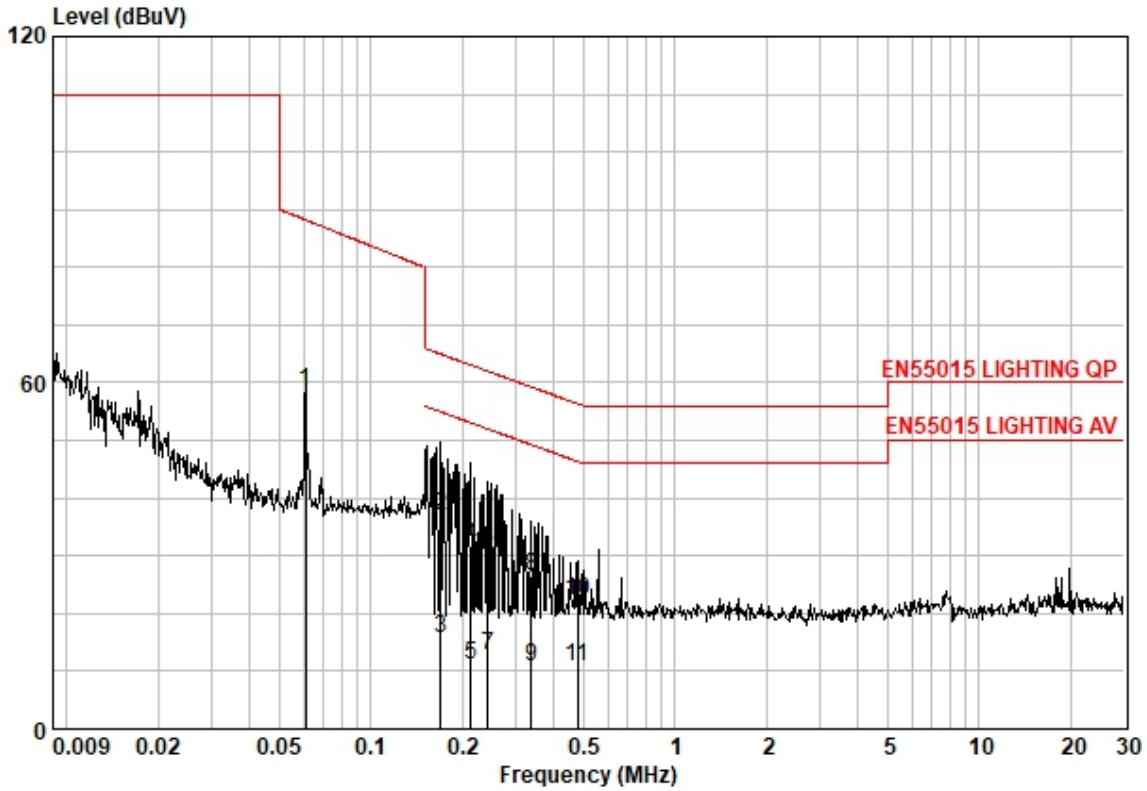

Pol :NEUTRAL
Mode :M2
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	48.86	0.05	9.63	58.54	88.22	-29.68	QP
0.17	27.38	0.06	9.62	37.06	64.99	-27.93	QP
0.17	5.89	0.06	9.62	15.57	54.99	-39.42	AVERAGE
0.21	22.08	0.06	9.62	31.76	63.10	-31.34	QP
0.21	1.42	0.06	9.62	11.10	53.10	-42.00	AVERAGE
0.24	21.23	0.06	9.62	30.91	62.00	-31.08	QP
0.24	3.07	0.06	9.62	12.75	52.00	-39.24	AVERAGE
0.34	16.78	0.06	9.63	26.47	59.27	-32.79	QP
0.34	1.25	0.06	9.63	10.94	49.27	-38.32	AVERAGE
0.48	12.61	0.07	9.64	22.32	56.36	-34.05	QP
0.48	0.94	0.07	9.64	10.65	46.36	-35.72	AVERAGE

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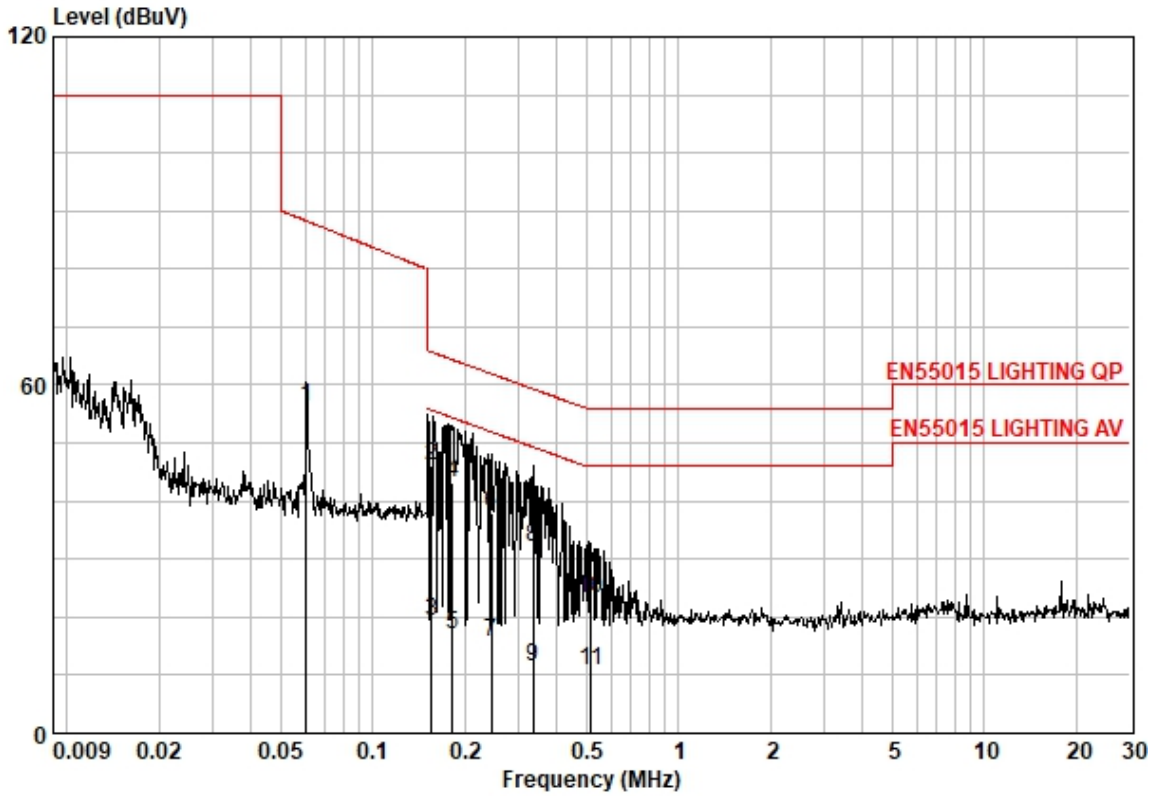
Mode:a; Line:Neutral Line; model: A60-9-XX/A12J/14/5



Pol :NEUTRAL
Mode :M3
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	46.49	0.05	9.63	56.17	88.25	-32.07	QP
0.16	36.48	0.06	9.61	46.15	65.69	-19.54	QP
0.16	9.54	0.06	9.61	19.21	55.69	-36.48	AVERAGE
0.18	33.34	0.06	9.62	43.02	64.37	-21.35	QP
0.18	7.47	0.06	9.62	17.15	54.37	-37.22	AVERAGE
0.24	28.13	0.06	9.62	37.81	61.95	-24.14	QP
0.24	5.95	0.06	9.62	15.63	51.95	-36.32	AVERAGE
0.34	22.44	0.06	9.63	32.13	59.31	-27.18	QP
0.34	1.82	0.06	9.63	11.51	49.31	-37.80	AVERAGE
0.52	13.41	0.07	9.64	23.12	56.00	-32.88	QP
0.52	1.04	0.07	9.64	10.75	46.00	-35.25	AVERAGE

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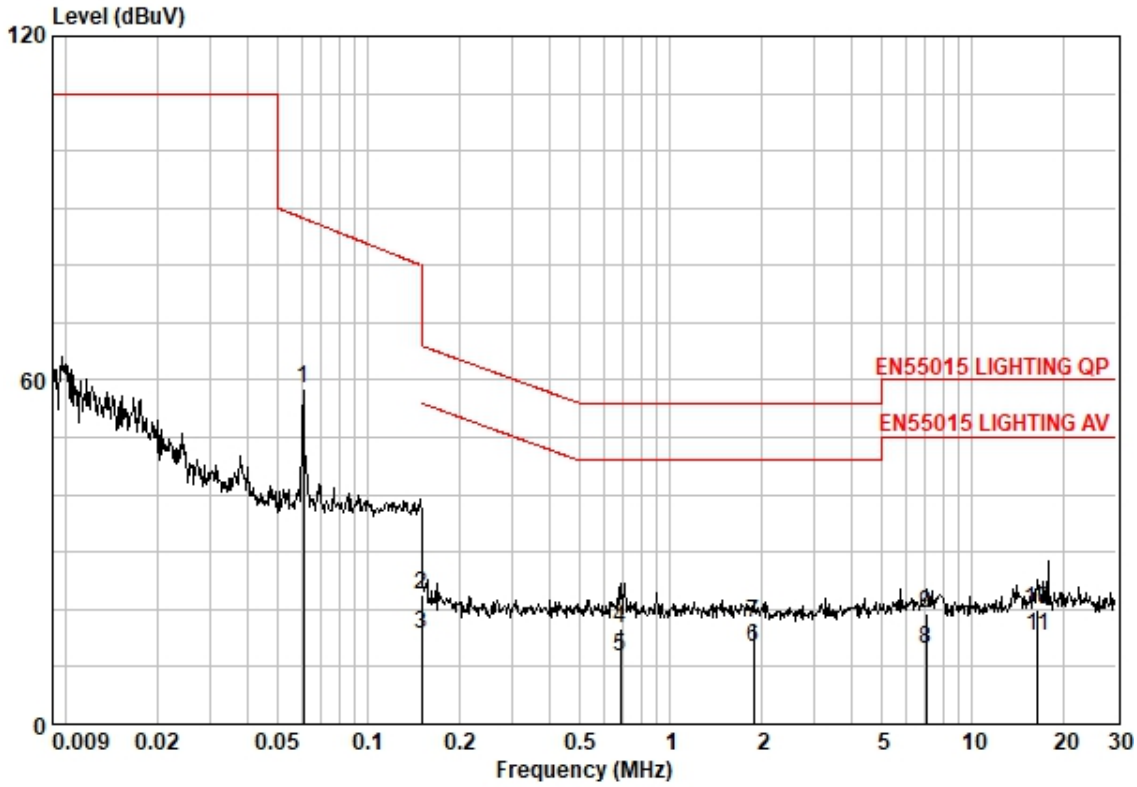
Mode:a; Line:Neutral Line; model: G45-5.5-XX/A12F/11/3



Pol :NEUTRAL
Mode :M4
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	48.90	0.05	9.63	58.58	88.22	-29.64	QP
0.15	12.89	0.06	9.61	22.56	66.00	-43.44	QP
0.15	6.18	0.06	9.61	15.85	56.00	-40.15	AVERAGE
0.68	7.06	0.07	9.66	16.79	56.00	-39.21	QP
0.68	1.92	0.07	9.66	11.65	46.00	-34.35	AVERAGE
1.89	3.46	0.11	9.72	13.30	46.00	-32.70	AVERAGE
1.89	7.71	0.11	9.72	17.55	56.00	-38.45	QP
7.06	3.00	0.21	9.88	13.09	50.00	-36.91	AVERAGE
7.06	9.22	0.21	9.88	19.31	60.00	-40.69	QP
16.49	9.39	0.33	10.12	19.84	60.00	-40.16	QP
16.49	4.99	0.33	10.12	15.44	50.00	-34.56	AVERAGE

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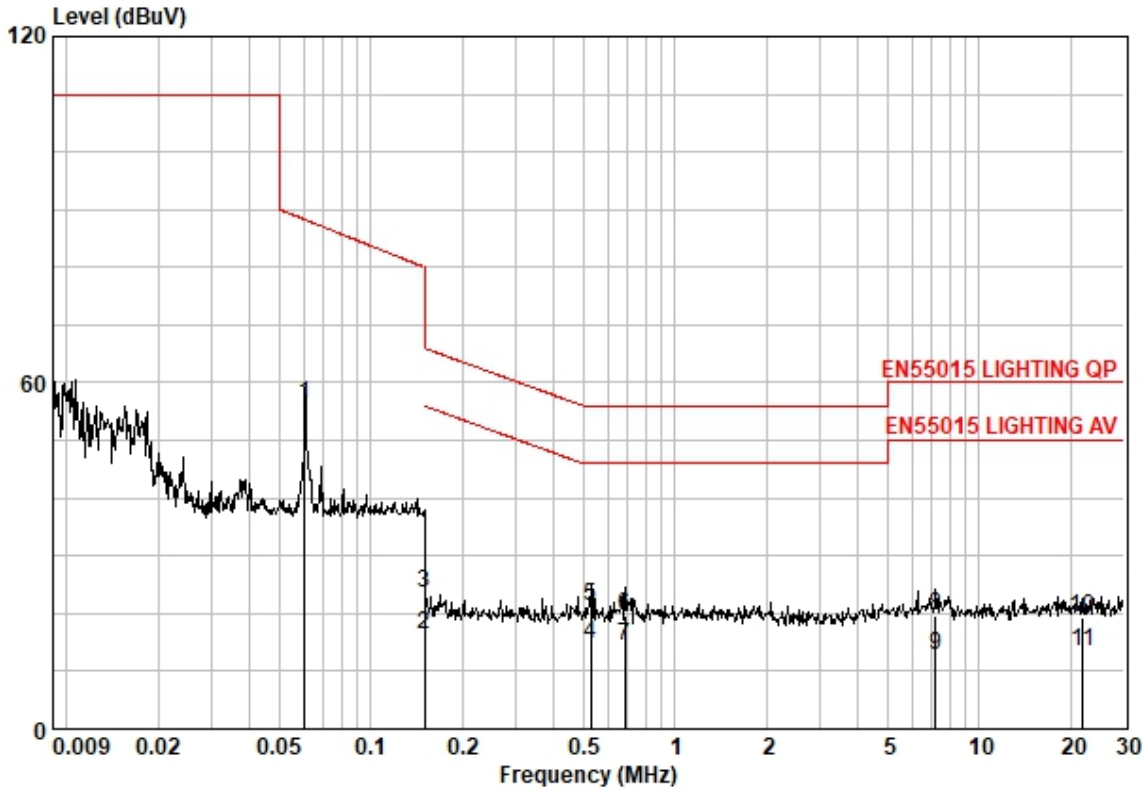

Pol :NEUTRAL
Mode :M5
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.06	46.49	0.05	9.63	56.17	88.25	-32.07	QP
0.15	6.65	0.06	9.61	16.32	56.00	-39.68	AVERAGE
0.15	14.03	0.06	9.61	23.70	66.00	-42.30	QP
0.53	4.86	0.07	9.64	14.57	46.00	-31.43	AVERAGE
0.53	11.55	0.07	9.64	21.26	56.00	-34.74	QP
0.68	9.90	0.07	9.66	19.63	56.00	-36.37	QP
0.68	4.63	0.07	9.66	14.36	46.00	-31.64	AVERAGE
7.18	9.58	0.21	9.88	19.67	60.00	-40.33	QP
7.18	2.74	0.21	9.88	12.83	50.00	-37.17	AVERAGE
21.95	8.91	0.38	10.13	19.43	60.00	-40.57	QP
21.95	3.05	0.38	10.13	13.57	50.00	-36.43	AVERAGE

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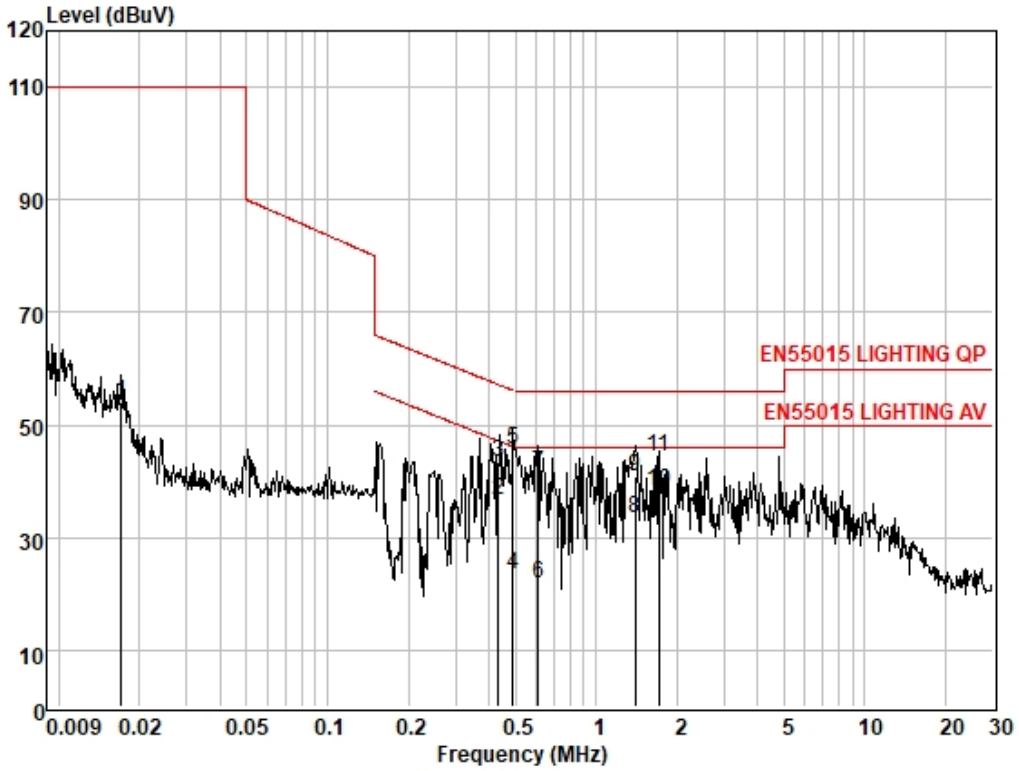

Pol :NEUTRAL
Mode :M10
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.02	44.02	0.04	10.01	54.07	110.00	-55.93	QP
0.43	26.95	0.06	9.56	36.57	47.20	-10.63	Average
0.43	33.96	0.06	9.56	43.58	57.20	-13.62	QP
0.49	13.84	0.07	9.55	23.46	46.14	-22.68	Average
0.49	35.96	0.07	9.55	45.58	56.14	-10.56	QP
0.61	12.34	0.07	9.54	21.95	46.00	-24.05	Average
0.61	31.86	0.07	9.54	41.47	56.00	-14.53	QP
1.40	23.68	0.09	9.55	33.32	46.00	-12.68	Average
1.40	31.24	0.09	9.55	40.88	56.00	-15.12	QP
1.72	28.67	0.11	9.55	38.33	46.00	-7.67	Average
1.72	34.59	0.11	9.55	44.25	56.00	-11.75	QP

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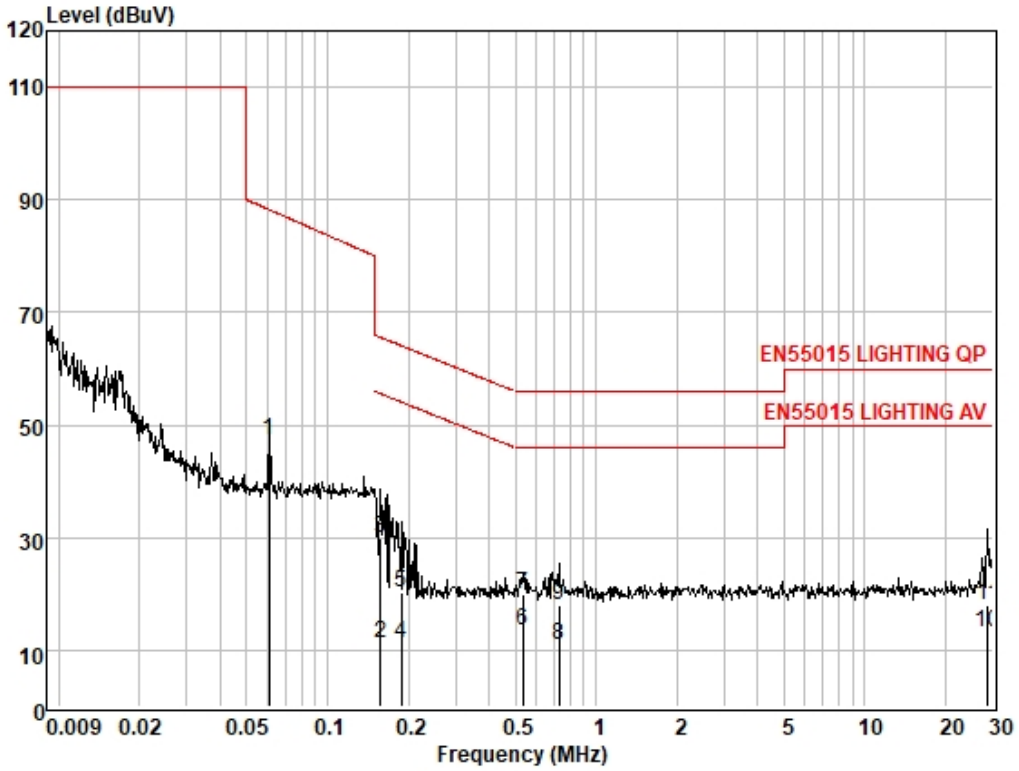
Mode:a; Line:Neutral Line; model: C37-5.5-XX/A11F/11/3



Pol :NEUTRAL
Mode :M6
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.06	37.80	0.05	9.58	47.43	88.25	-40.82	QP
0.16	1.62	0.06	9.55	11.23	55.60	-44.37	Average
0.16	20.24	0.06	9.55	29.85	65.60	-35.75	QP
0.19	1.51	0.06	9.54	11.11	54.11	-43.00	Average
0.19	10.80	0.06	9.54	20.40	64.11	-43.71	QP
0.53	3.73	0.07	9.55	13.35	46.00	-32.65	Average
0.53	10.33	0.07	9.55	19.95	56.00	-36.05	QP
0.73	1.39	0.07	9.55	11.01	46.00	-34.99	Average
0.73	8.30	0.07	9.55	17.92	56.00	-38.08	QP
28.75	2.82	0.43	9.90	13.15	50.00	-36.85	Average
28.75	7.72	0.43	9.90	18.05	60.00	-41.95	QP

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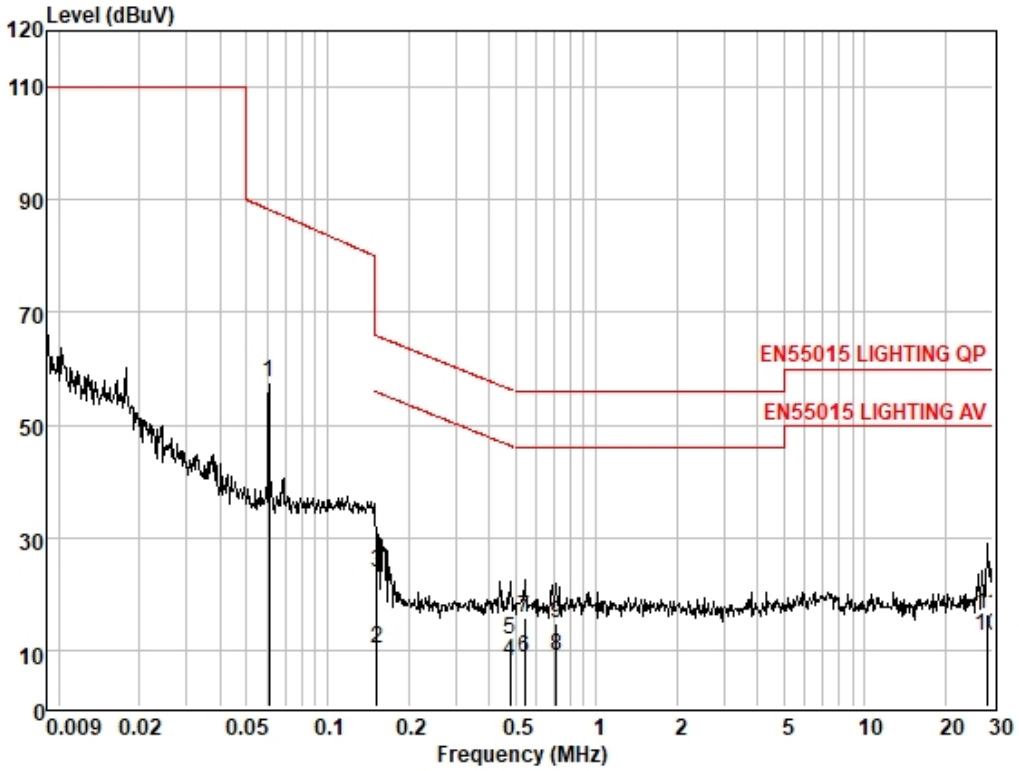
Mode:a; Line:Neutral Line; model: C35-4-27/G118/5Y2



Pol :NEUTRAL
Mode :M9
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.06	47.84	0.05	9.58	57.47	88.27	-30.80	QP
0.15	0.64	0.06	9.55	10.25	55.82	-45.57	Average
0.15	14.07	0.06	9.55	23.68	65.82	-42.14	QP
0.48	-1.47	0.07	9.55	8.15	46.36	-38.21	Average
0.48	2.21	0.07	9.55	11.83	56.36	-44.53	QP
0.54	-0.84	0.07	9.55	8.78	46.00	-37.22	Average
0.54	6.17	0.07	9.55	15.79	56.00	-40.21	QP
0.71	-0.62	0.07	9.55	9.00	46.00	-37.00	Average
0.71	5.21	0.07	9.55	14.83	56.00	-41.17	QP
28.75	2.12	0.43	9.90	12.45	50.00	-37.55	Average
28.75	6.13	0.43	9.90	16.46	60.00	-43.54	QP

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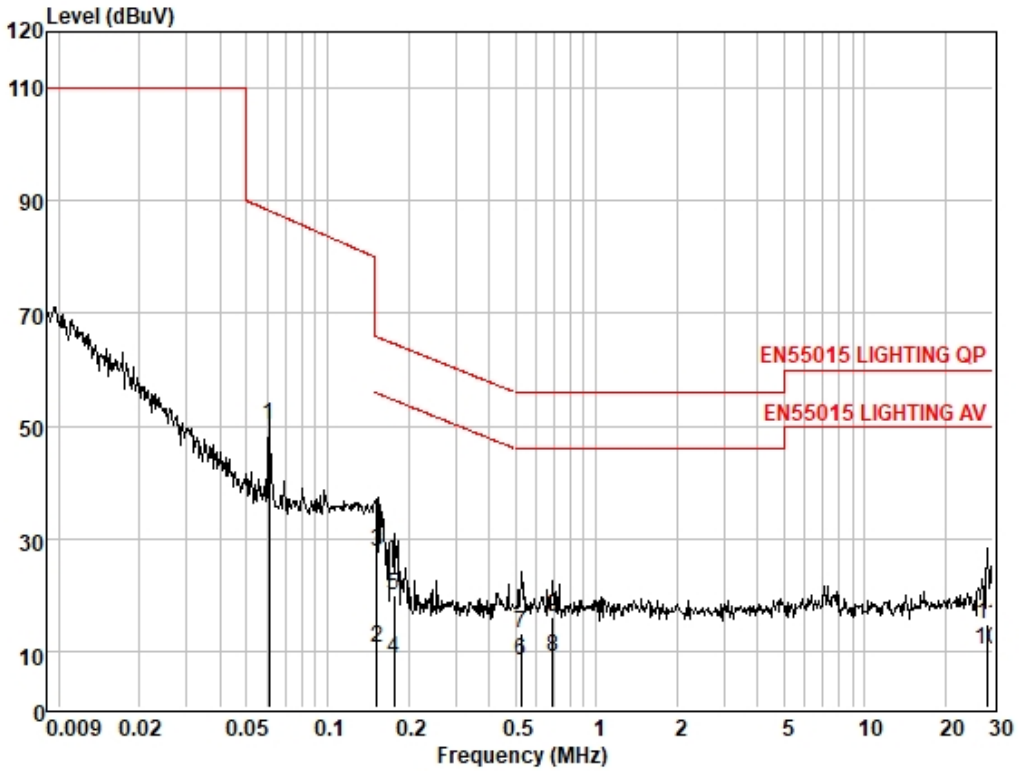
Mode:a; Line:Neutral Line; model: A60-6.5-27/G138/5Y2



Pol :NEUTRAL
Mode :M8
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.06	40.43	0.05	9.58	50.06	88.25	-38.19	QP
0.15	1.01	0.06	9.55	10.62	55.82	-45.20	Average
0.15	18.01	0.06	9.55	27.62	65.82	-38.20	QP
0.18	-1.06	0.06	9.55	8.55	54.59	-46.04	Average
0.18	10.45	0.06	9.55	20.06	64.59	-44.53	QP
0.52	-1.36	0.07	9.55	8.26	46.00	-37.74	Average
0.52	3.60	0.07	9.55	13.22	56.00	-42.78	QP
0.69	-0.76	0.07	9.55	8.86	46.00	-37.14	Average
0.69	6.35	0.07	9.55	15.97	56.00	-40.03	QP
28.75	0.02	0.43	9.90	10.35	50.00	-39.65	Average
28.75	4.45	0.43	9.90	14.78	60.00	-45.22	QP

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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	EN IEC 55015:2019
Test Method:	EN IEC 55015:2019
Frequency Range:	30MHz to 1GHz
Measurement Distance:	10m
Limit:	
30MHz-230MHz	30 dB(μV/m) quasi-peak
230MHz-1GHz	37 dB(μV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

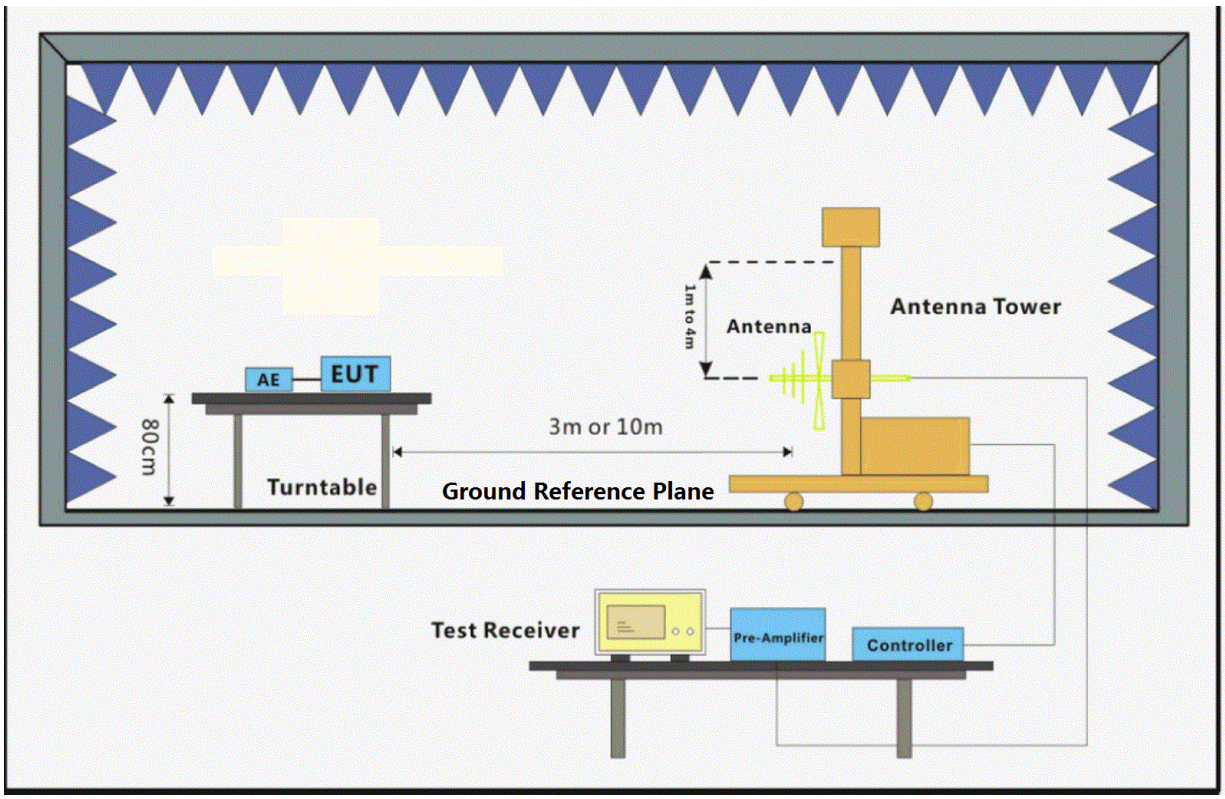
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

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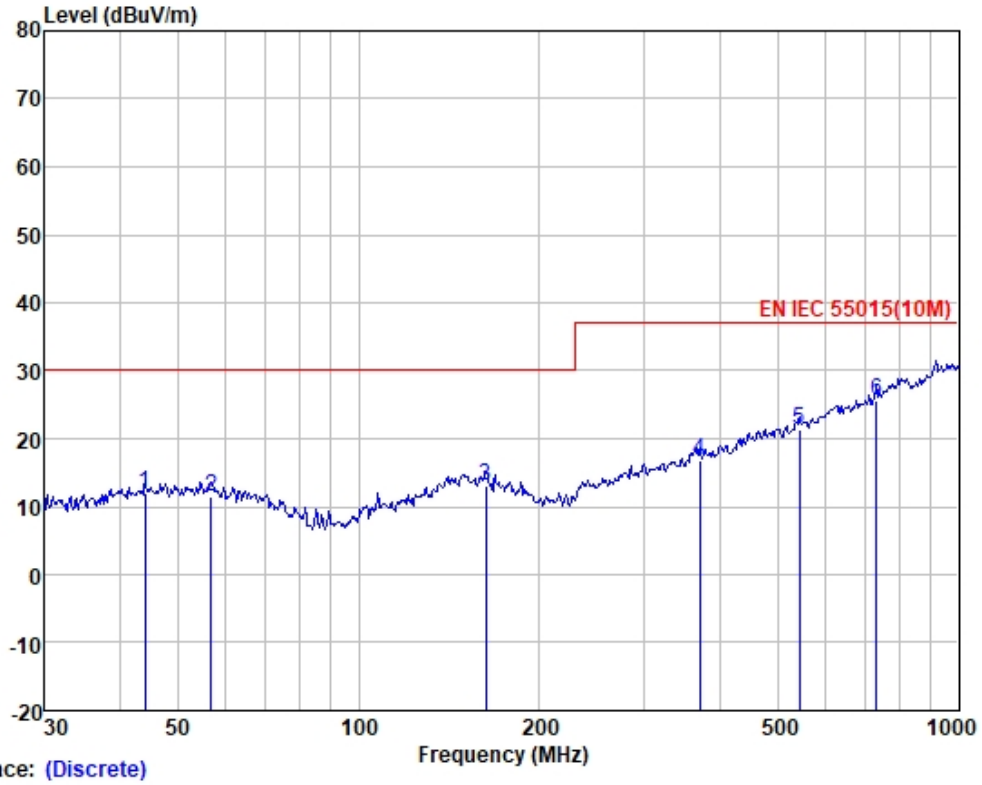
Mode:a; Polarization:Horizontal; model: GU10-6-XX/A159/14/XJ



Trace: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M5
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	44.120	24.09	13.81	1.17	27.17	11.90	30.00	-18.10	HORIZONTAL	QP
2	56.792	23.80	13.66	1.29	27.16	11.59	30.00	-18.41	HORIZONTAL	QP
3	163.182	24.24	13.53	2.17	26.79	13.15	30.00	-16.85	HORIZONTAL	QP
4	370.702	25.24	15.25	3.40	27.19	16.70	37.00	-20.30	HORIZONTAL	QP
5	543.274	26.62	18.50	4.26	28.08	21.30	37.00	-15.70	HORIZONTAL	QP
6	729.358	26.82	21.80	5.20	28.13	25.69	37.00	-11.31	HORIZONTAL	QP

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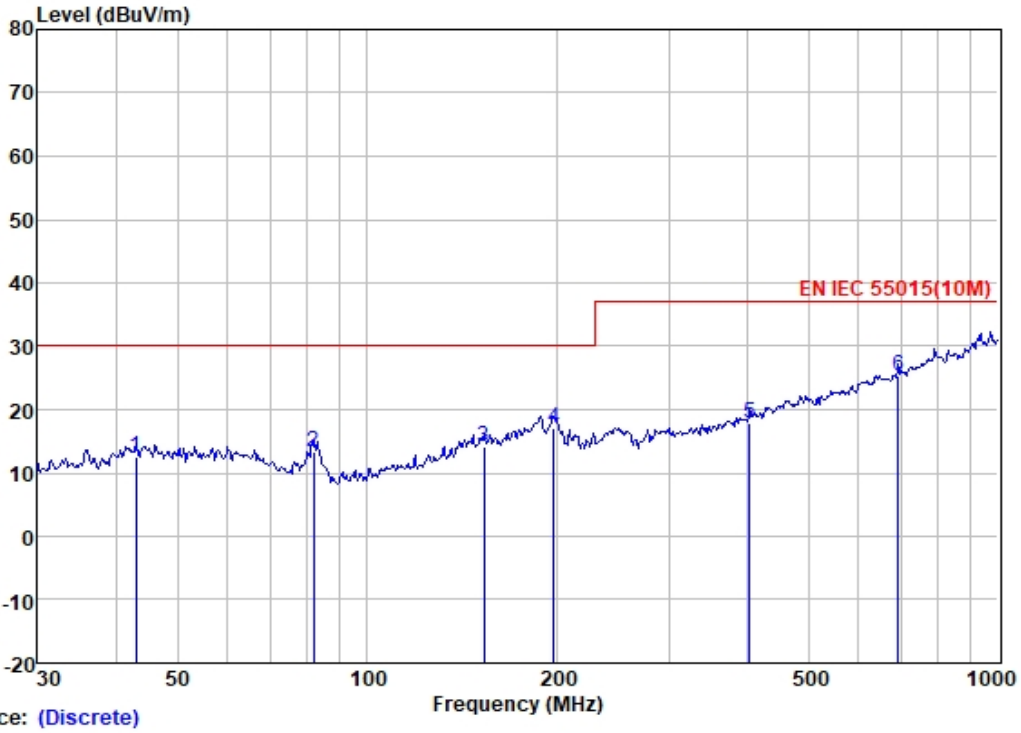
Mode:a; Polarization:Horizontal; model: MR16-6-XX/E165/14/2J



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M10
Power :
Test Mode:

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	42.900	24.92	13.75	1.14	27.17	12.64	30.00	-17.36	HORIZONTAL	QP
2	82.071	30.31	8.40	1.61	27.09	13.23	30.00	-16.77	HORIZONTAL	QP
3	153.200	25.05	13.80	2.09	26.82	14.12	30.00	-15.88	HORIZONTAL	QP
4	197.200	30.83	10.47	2.49	26.73	17.06	30.00	-12.94	HORIZONTAL	QP
5	403.250	25.64	15.77	3.85	27.34	17.92	37.00	-19.08	HORIZONTAL	QP
6	694.417	26.92	21.00	5.48	28.16	25.24	37.00	-11.76	HORIZONTAL	QP

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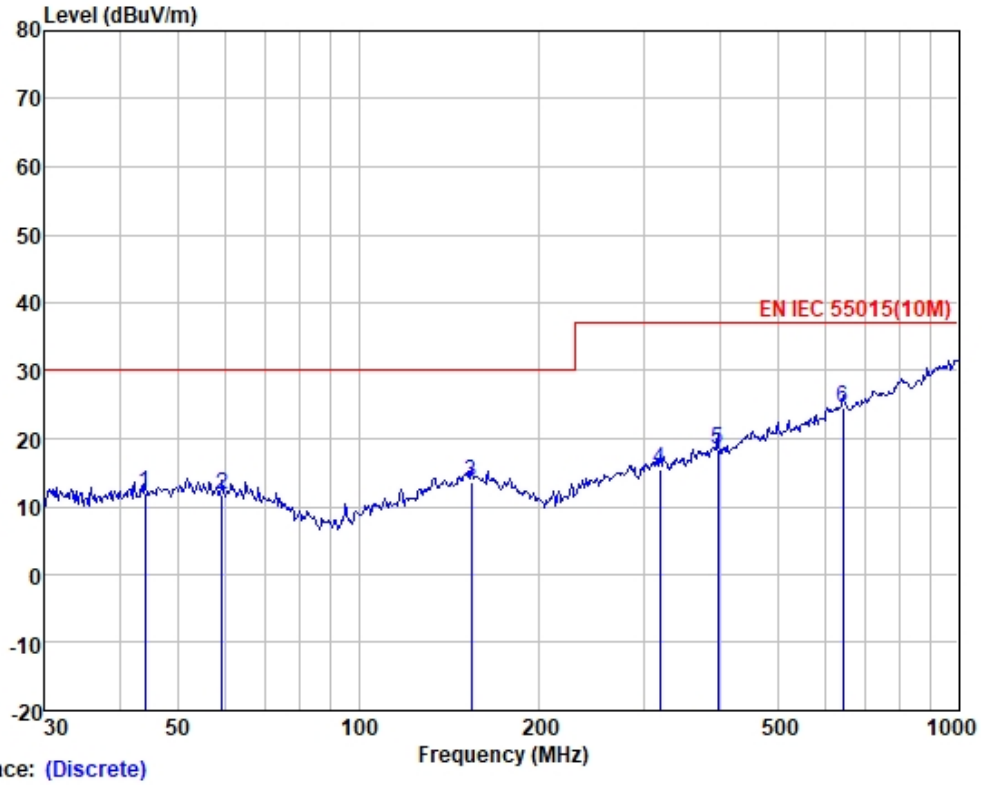
Mode:a; Polarization:Horizontal; model: G45-5.5-XX/A12F/11/3



Trace: (Discrete)

Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M4
Power :
Test Mode:

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	44.120	24.16	13.81	1.17	27.17	11.97	30.00	-18.03	HORIZONTAL	QP
2	59.232	24.22	13.48	1.32	27.16	11.86	30.00	-18.14	HORIZONTAL	QP
3	154.279	24.59	13.78	2.09	26.82	13.64	30.00	-16.36	HORIZONTAL	QP
4	317.701	24.97	14.20	3.00	26.65	15.52	37.00	-21.48	HORIZONTAL	QP
5	397.633	26.20	15.65	3.93	27.32	18.46	37.00	-18.54	HORIZONTAL	QP
6	642.861	27.26	20.42	4.93	28.19	24.42	37.00	-12.58	HORIZONTAL	QP

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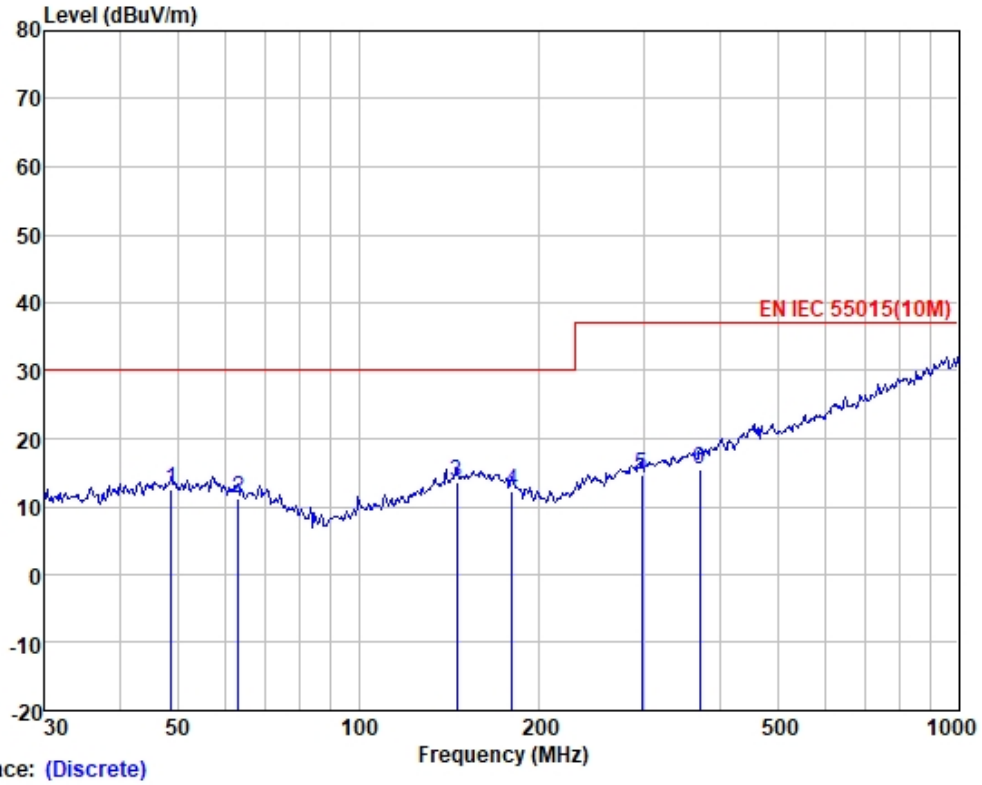
Mode:a; Polarization:Horizontal; model: A60-6-XX/A13J/14/5/M



Trace: (Discrete)

Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M2
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	48.672	24.43	13.97	1.19	27.17	12.42	30.00	-17.58	HORIZONTAL	QP
2	63.092	24.11	13.00	1.31	27.15	11.27	30.00	-18.73	HORIZONTAL	QP
3	145.861	24.87	13.70	2.02	26.86	13.73	30.00	-16.27	HORIZONTAL	QP
4	180.017	24.73	12.00	2.35	26.75	12.33	30.00	-17.67	HORIZONTAL	QP
5	296.184	24.85	13.52	2.94	26.55	14.76	37.00	-22.24	HORIZONTAL	QP
6	370.702	24.14	15.25	3.40	27.19	15.60	37.00	-21.40	HORIZONTAL	QP

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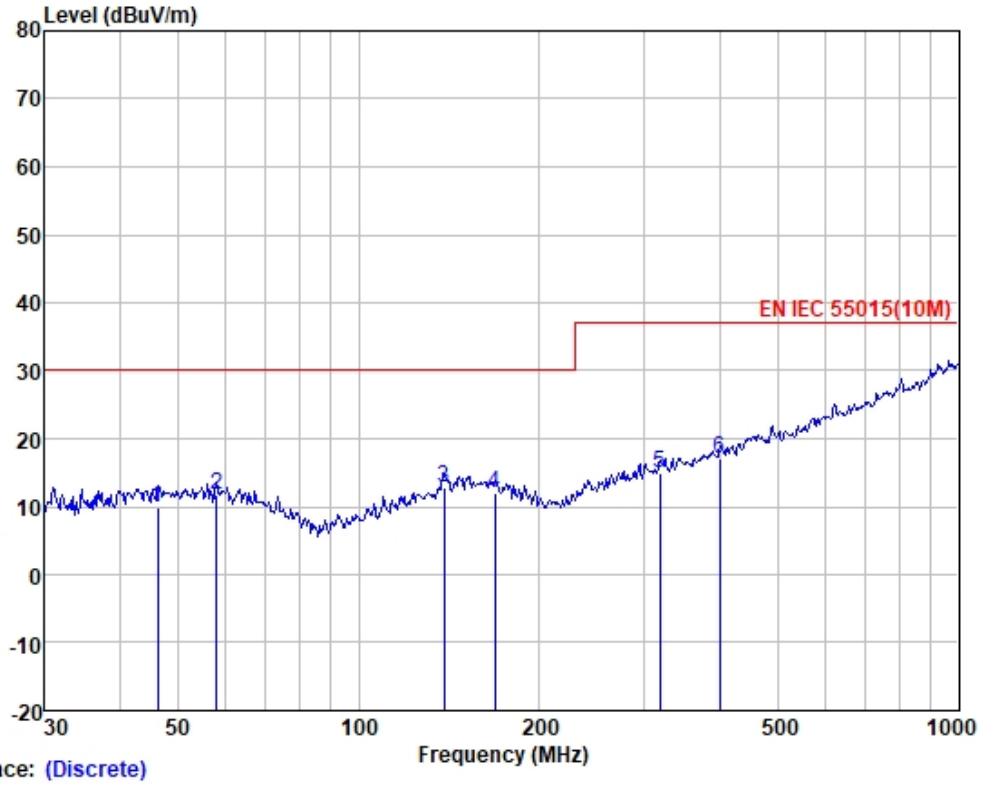
Mode:a; Polarization:Horizontal; model: A60-14-XX/A12J/14/M



Trace: (Discrete)

Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M1
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.340	22.04	13.91	1.19	27.17	9.97	30.00	-20.03	HORIZONTAL	QP
2	57.999	23.91	13.60	1.31	27.16	11.66	30.00	-18.34	HORIZONTAL	QP
3	138.874	24.57	13.15	1.96	26.94	12.74	30.00	-17.26	HORIZONTAL	QP
4	169.005	23.21	13.20	2.23	26.77	11.87	30.00	-18.13	HORIZONTAL	QP
5	317.701	24.33	14.20	3.00	26.65	14.88	37.00	-22.12	HORIZONTAL	QP
6	400.432	24.69	15.70	3.93	27.33	16.99	37.00	-20.01	HORIZONTAL	QP

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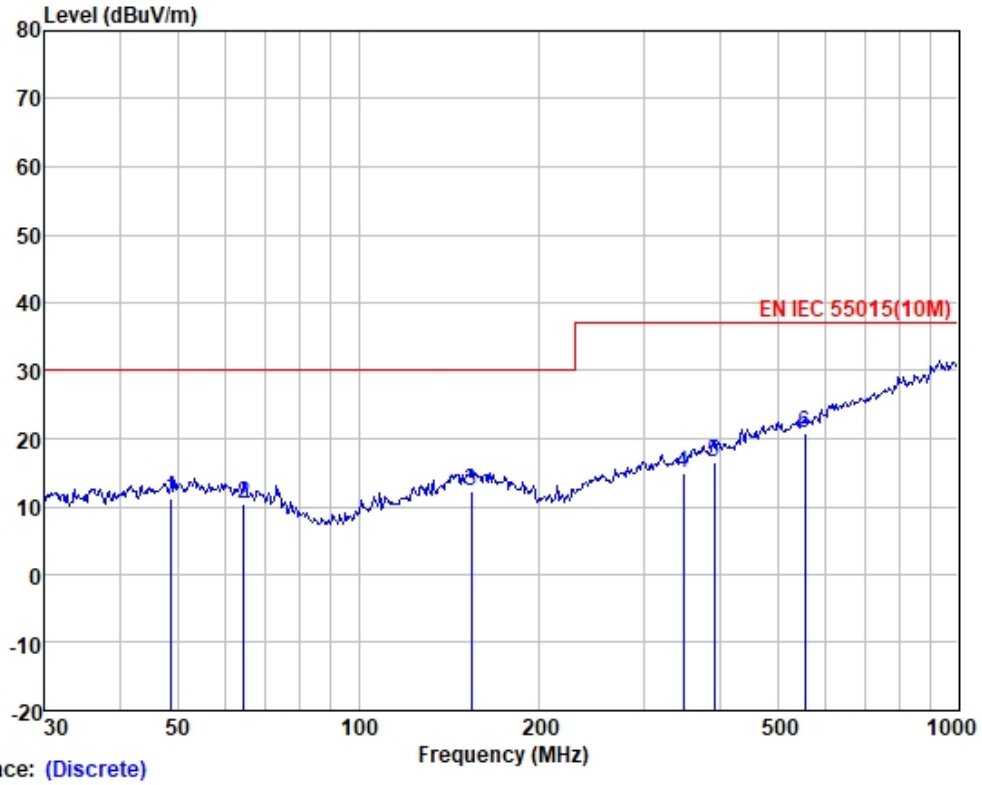
Mode:a; Polarization:Horizontal; model: A60-9-XX/A12J/14/5



Trace: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M3
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	48.672	23.31	13.97	1.19	27.17	11.30	30.00	-18.70	HORIZONTAL	QP
2	64.433	23.51	12.83	1.29	27.15	10.48	30.00	-19.52	HORIZONTAL	QP
3	154.279	23.31	13.78	2.09	26.82	12.36	30.00	-17.64	HORIZONTAL	QP
4	348.027	24.19	14.50	3.15	26.96	14.88	37.00	-22.12	HORIZONTAL	QP
5	392.095	24.54	15.60	3.70	27.30	16.54	37.00	-20.46	HORIZONTAL	QP
6	554.825	25.79	18.75	4.50	28.12	20.92	37.00	-16.08	HORIZONTAL	QP

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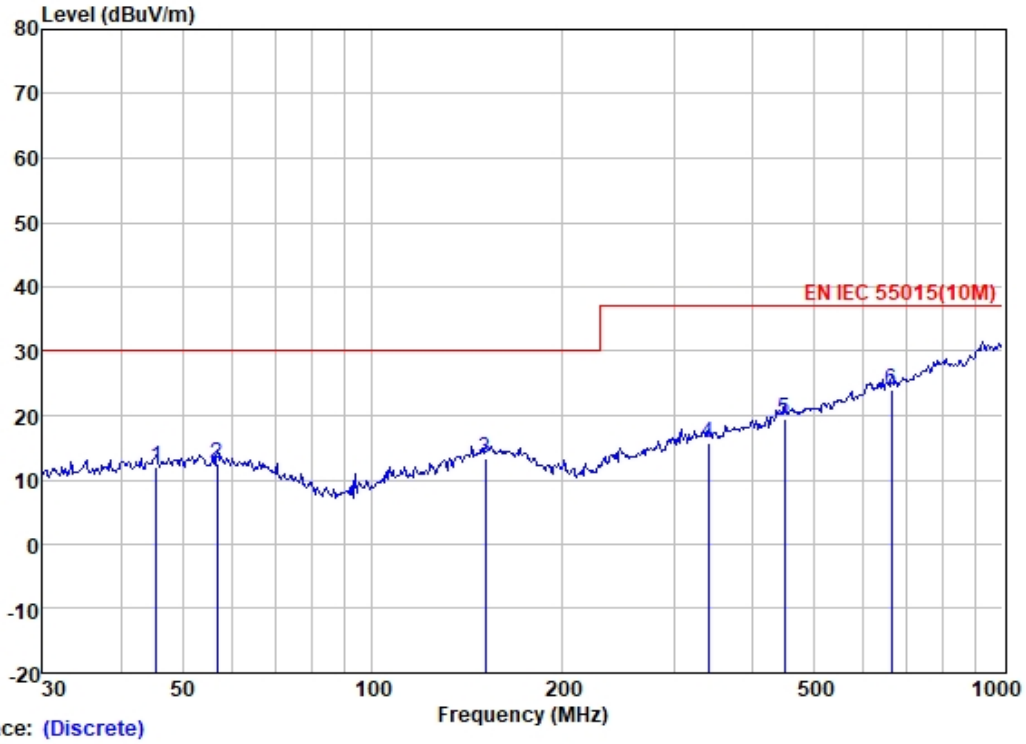
Mode:a; Polarization:Horizontal; model: C37-5.5-XX/A11F/11/3



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M6
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	45.375	24.08	13.87	1.19	27.17	11.97	30.00	-18.03	HORIZONTAL	QP
2	56.792	24.86	13.66	1.29	27.16	12.65	30.00	-17.35	HORIZONTAL	QP
3	151.067	24.20	13.80	2.06	26.83	13.23	30.00	-16.77	HORIZONTAL	QP
4	340.782	25.12	14.50	3.08	26.86	15.84	37.00	-21.16	HORIZONTAL	QP
5	449.556	25.83	17.30	4.05	27.70	19.48	37.00	-17.52	HORIZONTAL	QP
6	665.804	26.75	20.65	4.90	28.17	24.13	37.00	-12.87	HORIZONTAL	QP

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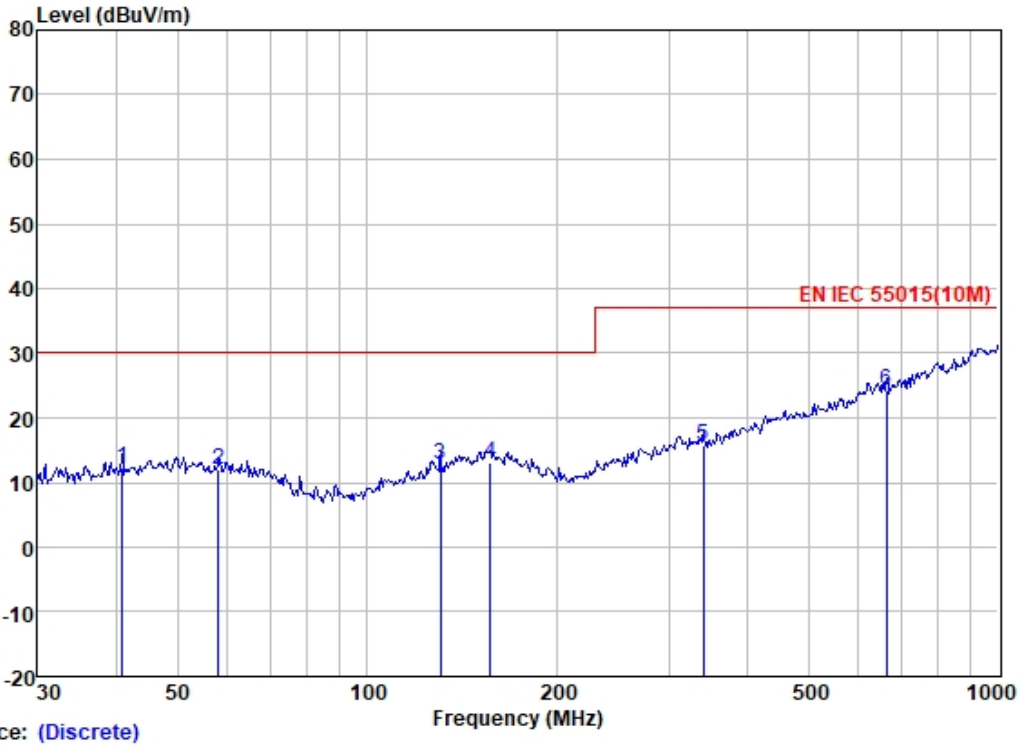
Mode:a; Polarization:Horizontal; model: A60-6.5-27/G138/5Y2



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M7
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	40.845	24.79	13.58	1.08	27.18	12.27	30.00	-17.73	HORIZONTAL	QP
2	57.999	24.22	13.60	1.31	27.16	11.97	30.00	-18.03	HORIZONTAL	QP
3	130.379	25.83	12.15	1.86	26.99	12.85	30.00	-17.15	HORIZONTAL	QP
4	156.458	23.98	13.70	2.10	26.81	12.97	30.00	-17.03	HORIZONTAL	QP
5	340.782	25.06	14.50	3.08	26.86	15.78	37.00	-21.22	HORIZONTAL	QP
6	665.804	26.80	20.65	4.90	28.17	24.18	37.00	-12.82	HORIZONTAL	QP

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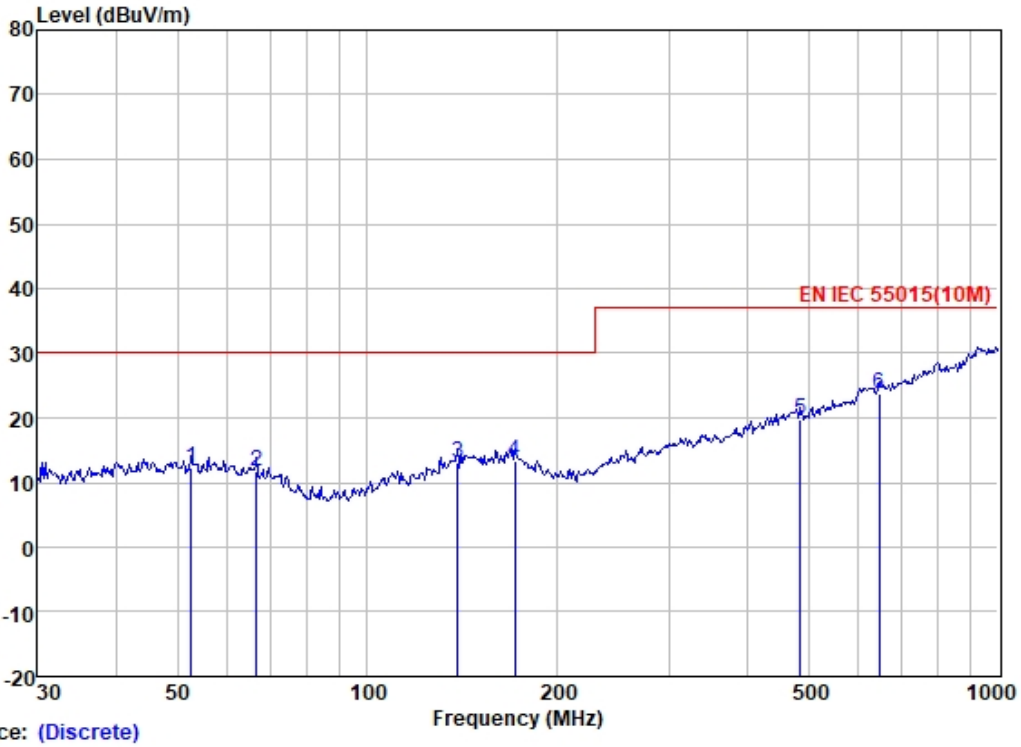
Mode:a; Polarization:Horizontal; model: A60-6.5-27/G138/5Y2



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M8
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	52.575	24.23	13.94	1.23	27.17	12.23	30.00	-17.77	HORIZONTAL	QP
2	66.733	25.18	12.46	1.32	27.14	11.82	30.00	-18.18	HORIZONTAL	QP
3	138.874	24.94	13.15	1.96	26.94	13.11	30.00	-16.89	HORIZONTAL	QP
4	171.393	24.72	13.03	2.25	26.77	13.23	30.00	-16.77	HORIZONTAL	QP
5	485.609	25.85	17.70	4.06	27.93	19.68	37.00	-17.32	HORIZONTAL	QP
6	647.386	26.39	20.48	4.92	28.18	23.61	37.00	-13.39	HORIZONTAL	QP

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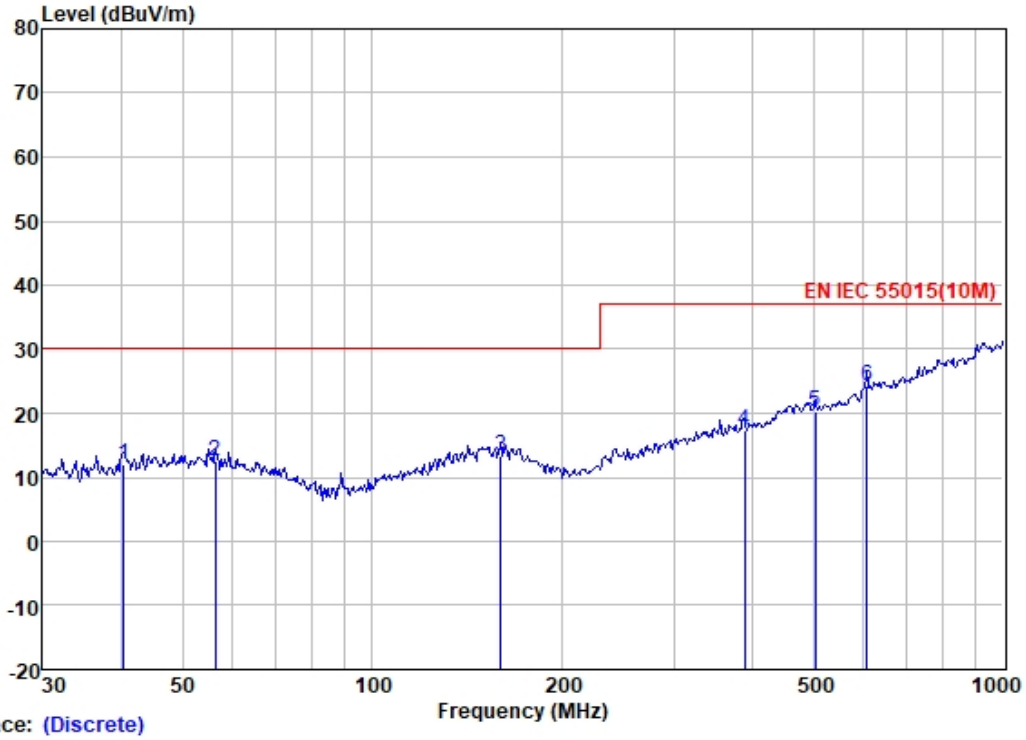
Mode:a; Polarization:Horizontal; model: C35-4-27/G118/5Y2



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m HORIZONTAL
Job :
Model : M9
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	40.276	24.56	13.52	1.07	27.18	11.97	30.00	-18.03	HORIZONTAL	QP
2	56.395	24.72	13.68	1.29	27.16	12.53	30.00	-17.47	HORIZONTAL	QP
3	159.784	24.32	13.60	2.13	26.80	13.25	30.00	-16.75	HORIZONTAL	QP
4	389.355	25.24	15.60	3.70	27.29	17.25	37.00	-19.75	HORIZONTAL	QP
5	502.940	26.34	17.96	3.89	27.98	20.21	37.00	-16.79	HORIZONTAL	QP
6	607.787	27.41	20.24	4.84	28.21	24.28	37.00	-12.72	HORIZONTAL	QP

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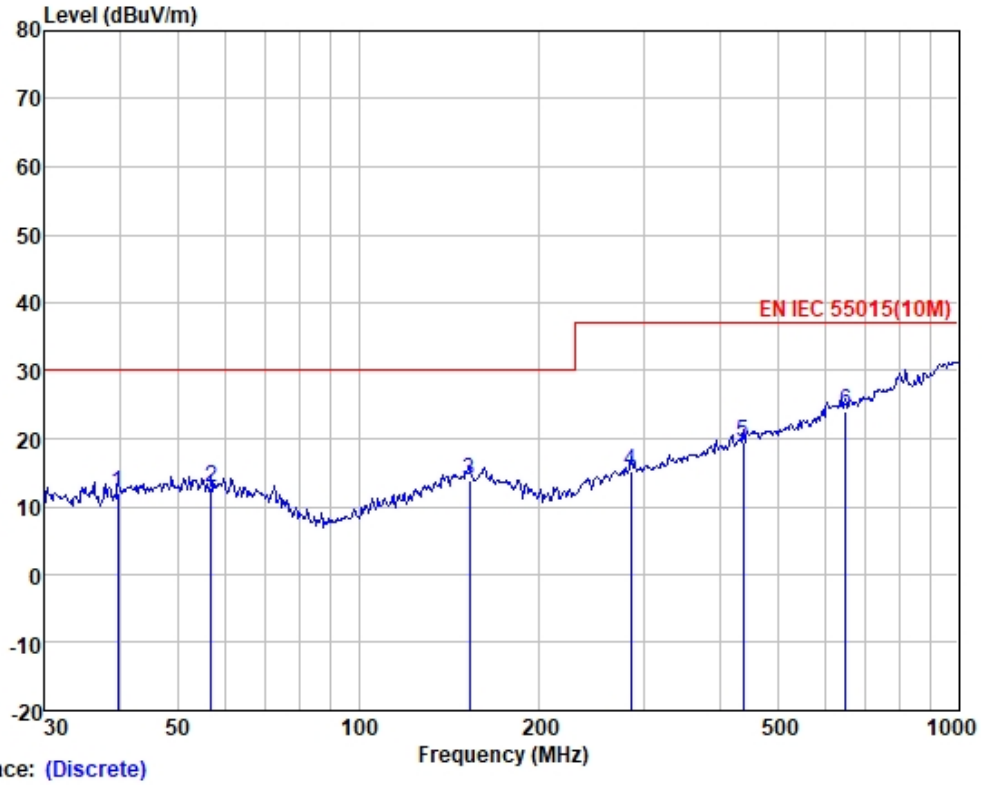
Mode:a; Polarization:Vertical; model: GU10-6-XX/A159/14/XJ



Trace: (Discrete)

Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M5
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	39.715	24.69	13.48	1.06	27.18	12.05	30.00	-17.95	VERTICAL	QP
2	56.792	24.90	13.66	1.29	27.16	12.69	30.00	-17.31	VERTICAL	QP
3	153.200	24.84	13.80	2.09	26.82	13.91	30.00	-16.09	VERTICAL	QP
4	283.979	25.75	13.28	2.85	26.56	15.32	37.00	-21.68	VERTICAL	QP
5	437.120	26.12	16.93	3.89	27.54	19.40	37.00	-17.60	VERTICAL	QP
6	647.386	26.71	20.48	4.92	28.18	23.93	37.00	-13.07	VERTICAL	QP

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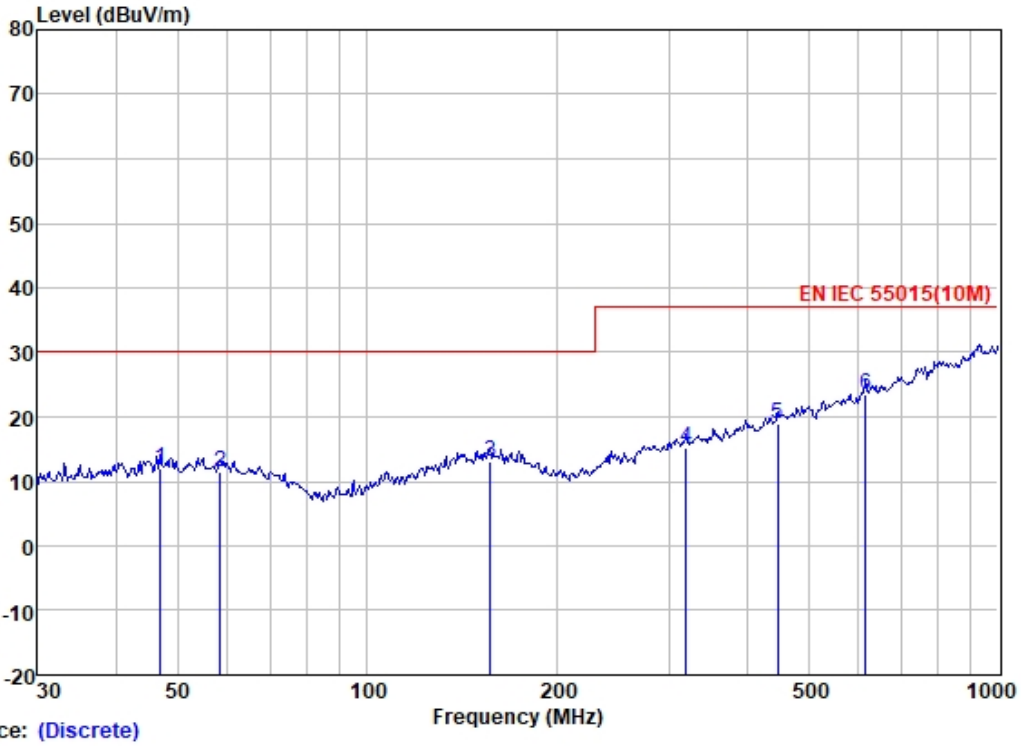

race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M8
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.995	24.12	13.95	1.19	27.17	12.09	30.00	-17.91	VERTICAL	QP
2	58.407	23.74	13.56	1.32	27.16	11.46	30.00	-18.54	VERTICAL	QP
3	156.458	23.98	13.70	2.10	26.81	12.97	30.00	-17.03	VERTICAL	QP
4	319.937	24.67	14.30	3.01	26.66	15.32	37.00	-21.68	VERTICAL	QP
5	446.414	25.26	17.23	4.05	27.65	18.89	37.00	-18.11	VERTICAL	QP
6	616.372	26.52	20.35	4.88	28.20	23.55	37.00	-13.45	VERTICAL	QP

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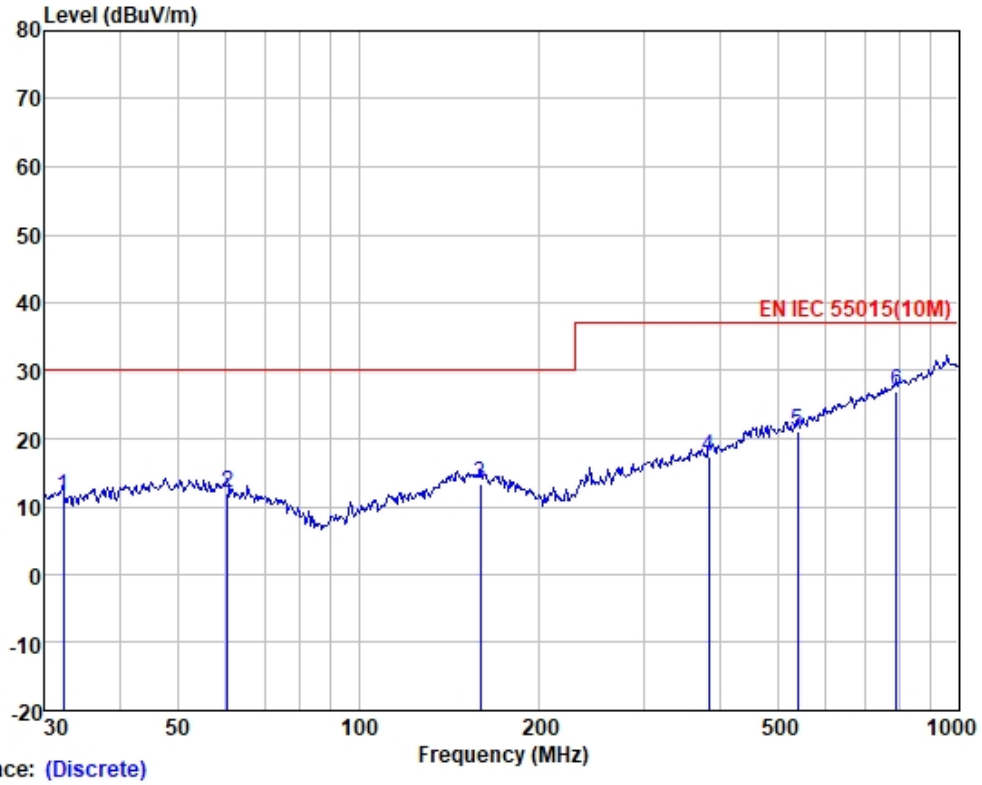
Mode:a; Polarization:Vertical; model: G45-5.5-XX/A12F/11/3



Trace: (Discrete)

Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M4
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	32.179	24.92	12.71	1.01	27.19	11.45	30.00	-18.55	VERTICAL	QP
2	60.492	24.60	13.33	1.32	27.16	12.09	30.00	-17.91	VERTICAL	QP
3	159.784	24.48	13.60	2.13	26.80	13.41	30.00	-16.59	VERTICAL	QP
4	383.932	25.56	15.50	3.57	27.26	17.37	37.00	-19.63	VERTICAL	QP
5	539.478	26.42	18.40	4.26	28.06	21.02	37.00	-15.98	VERTICAL	QP
6	787.851	26.82	22.45	5.58	28.04	26.81	37.00	-10.19	VERTICAL	QP

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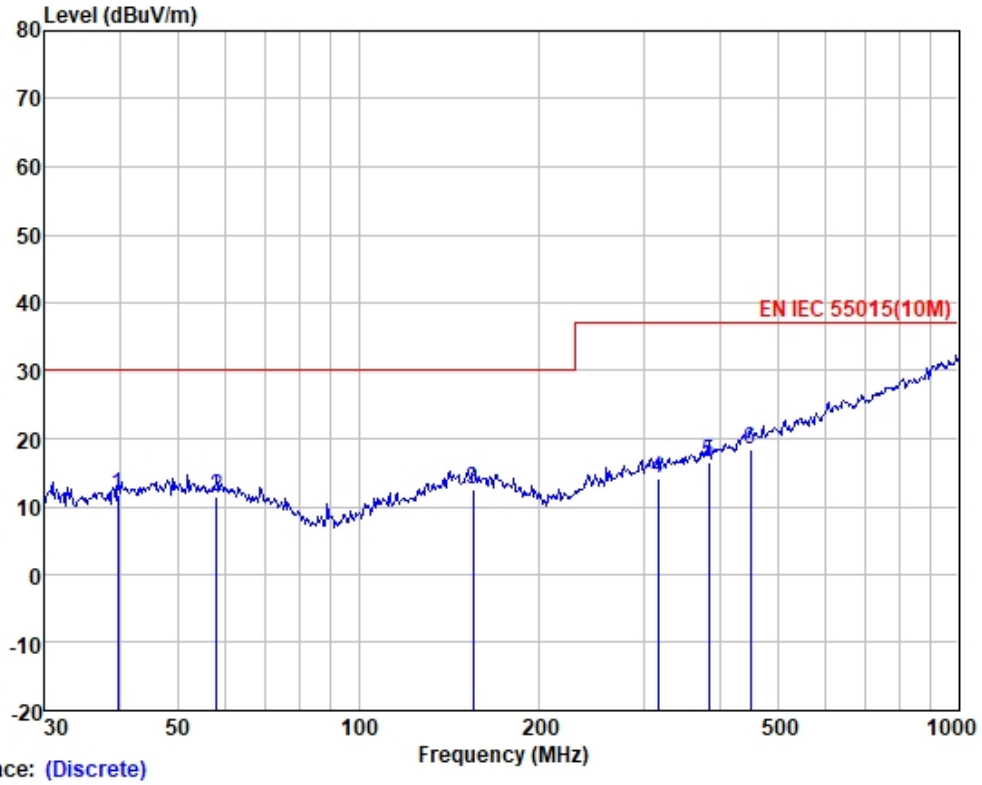
Mode:a; Polarization:Vertical; model: A60-6-XX/A13J/14/5/M



Trace: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M2
Power :
Test Mode:

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	39.715	24.48	13.48	1.06	27.18	11.84	30.00	-18.16	VERTICAL	QP
2	57.999	23.63	13.60	1.31	27.16	11.38	30.00	-18.62	VERTICAL	QP
3	155.364	23.41	13.72	2.10	26.81	12.42	30.00	-17.58	VERTICAL	QP
4	315.481	23.56	14.10	3.00	26.63	14.03	37.00	-22.97	VERTICAL	QP
5	383.932	24.65	15.50	3.57	27.26	16.46	37.00	-20.54	VERTICAL	QP
6	449.556	24.65	17.30	4.05	27.70	18.30	37.00	-18.70	VERTICAL	QP

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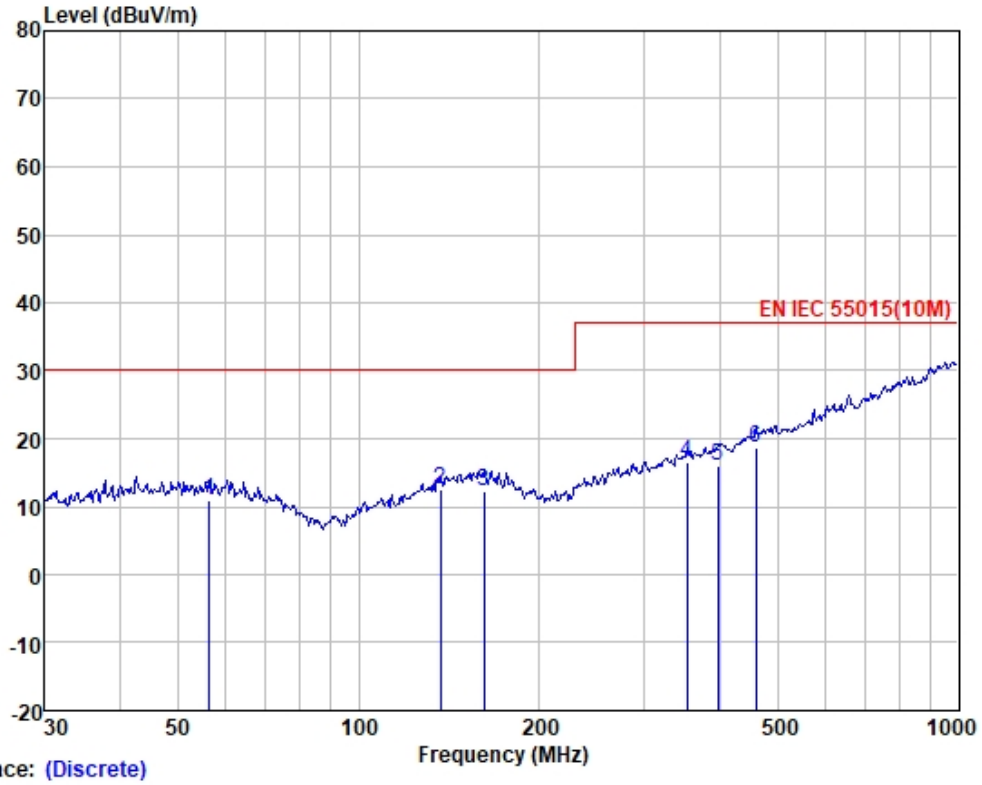
Mode:a; Polarization:Vertical; model: A60-9-XX/A12J/14/5



Trace: (Discrete)

Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M3
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	56.395	23.15	13.68	1.29	27.16	10.96	30.00	-19.04	VERTICAL	QP
2	136.939	24.64	12.90	1.94	26.95	12.53	30.00	-17.47	VERTICAL	QP
3	162.041	23.31	13.60	2.15	26.79	12.27	30.00	-17.73	VERTICAL	QP
4	352.943	25.94	14.55	3.20	27.04	16.65	37.00	-20.35	VERTICAL	QP
5	397.633	23.75	15.65	3.93	27.32	16.01	37.00	-20.99	VERTICAL	QP
6	459.114	24.80	17.48	4.18	27.78	18.68	37.00	-18.32	VERTICAL	QP

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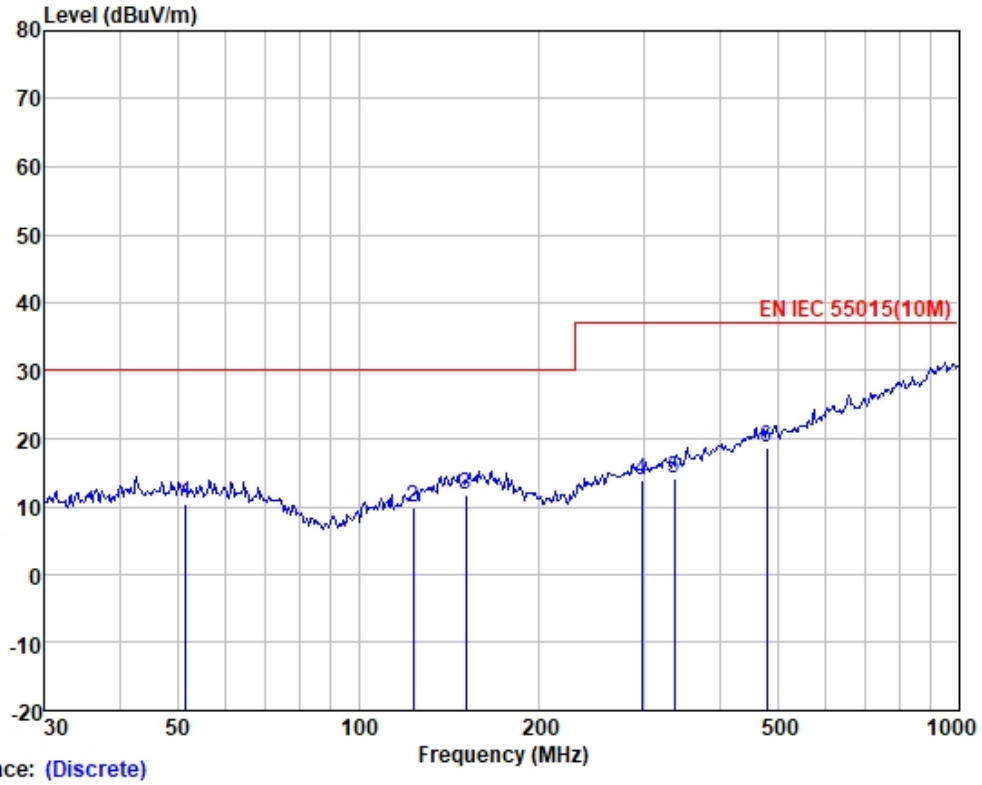
Mode:a; Polarization:Vertical; model: A60-14-XX/A12J/14/M



Trace: (Discrete)

Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M1
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	51.481	22.46	13.97	1.22	27.17	10.48	30.00	-19.52	VERTICAL	QP
2	123.266	23.72	11.30	1.79	27.02	9.79	30.00	-20.21	VERTICAL	QP
3	151.067	22.83	13.80	2.06	26.83	11.86	30.00	-18.14	VERTICAL	QP
4	296.184	23.94	13.52	2.94	26.55	13.85	37.00	-23.15	VERTICAL	QP
5	336.035	23.35	14.50	3.05	26.79	14.11	37.00	-22.89	VERTICAL	QP
6	478.846	24.85	17.57	4.08	27.90	18.60	37.00	-18.40	VERTICAL	QP

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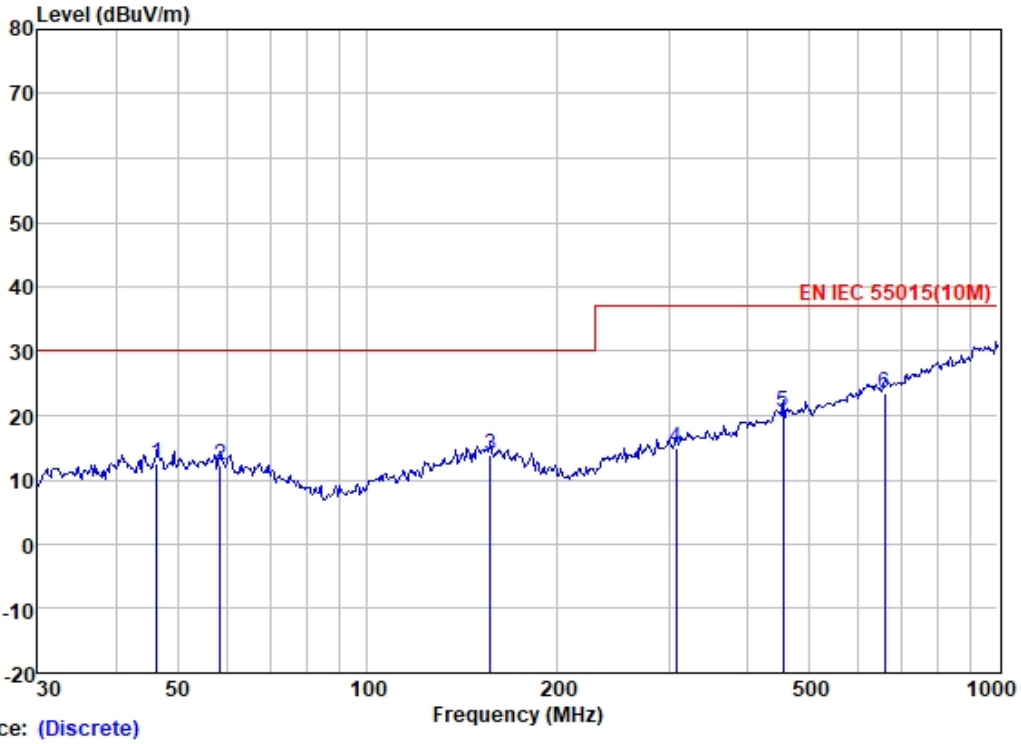
Mode:a; Polarization:Vertical; model: C35-4-27/G118/5Y2



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M9
Power :
Test Mode:

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.340	24.68	13.91	1.19	27.17	12.61	30.00	-17.39	VERTICAL	QP
2	58.407	24.65	13.56	1.32	27.16	12.37	30.00	-17.63	VERTICAL	QP
3	156.458	24.80	13.70	2.10	26.81	13.79	30.00	-16.21	VERTICAL	QP
4	308.913	24.63	13.85	2.99	26.60	14.87	37.00	-22.13	VERTICAL	QP
5	455.906	26.63	17.42	4.12	27.75	20.42	37.00	-16.58	VERTICAL	QP
6	661.151	26.21	20.60	4.91	28.18	23.54	37.00	-13.46	VERTICAL	QP

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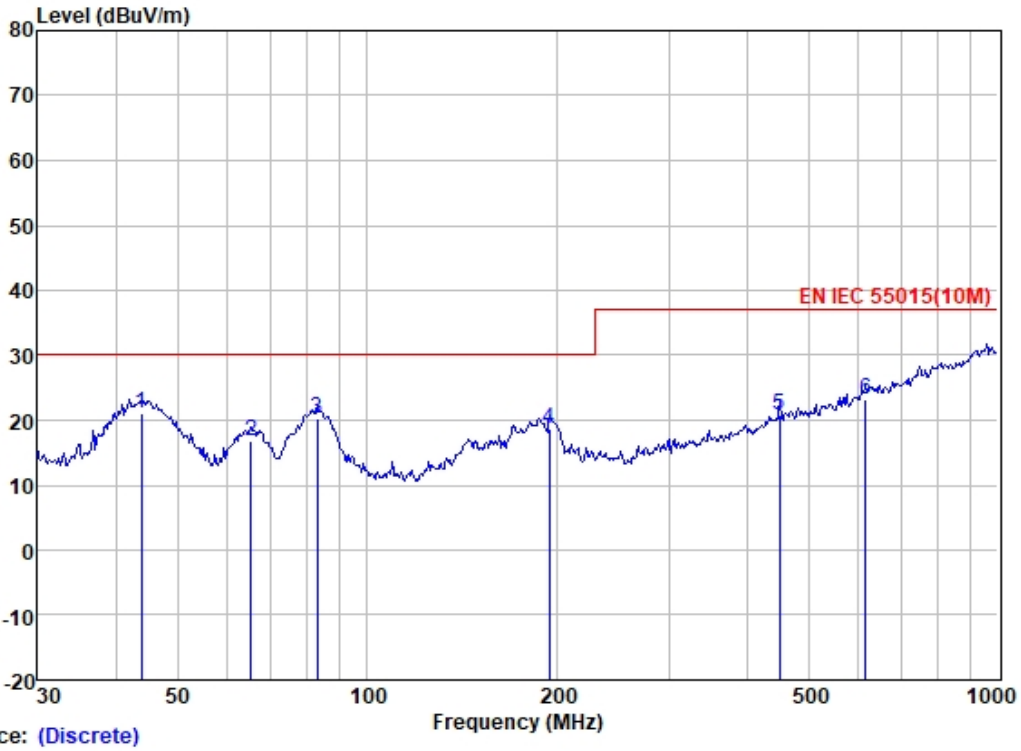
Mode:a; Polarization:Vertical; model: MR16-6-XX/E165/14/2J



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M10
Power :
Test Mode:

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	43.812	33.31	13.79	1.17	27.17	21.10	30.00	-8.90	VERTICAL	QP
2	65.343	30.10	12.68	1.28	27.15	16.91	30.00	-13.09	VERTICAL	QP
3	83.230	37.63	8.14	1.61	27.09	20.29	30.00	-9.71	VERTICAL	QP
4	194.453	32.23	10.73	2.47	26.74	18.69	30.00	-11.31	VERTICAL	QP
5	449.556	27.17	17.30	4.05	27.70	20.82	37.00	-16.18	VERTICAL	QP
6	616.372	26.19	20.35	4.88	28.20	23.22	37.00	-13.78	VERTICAL	QP

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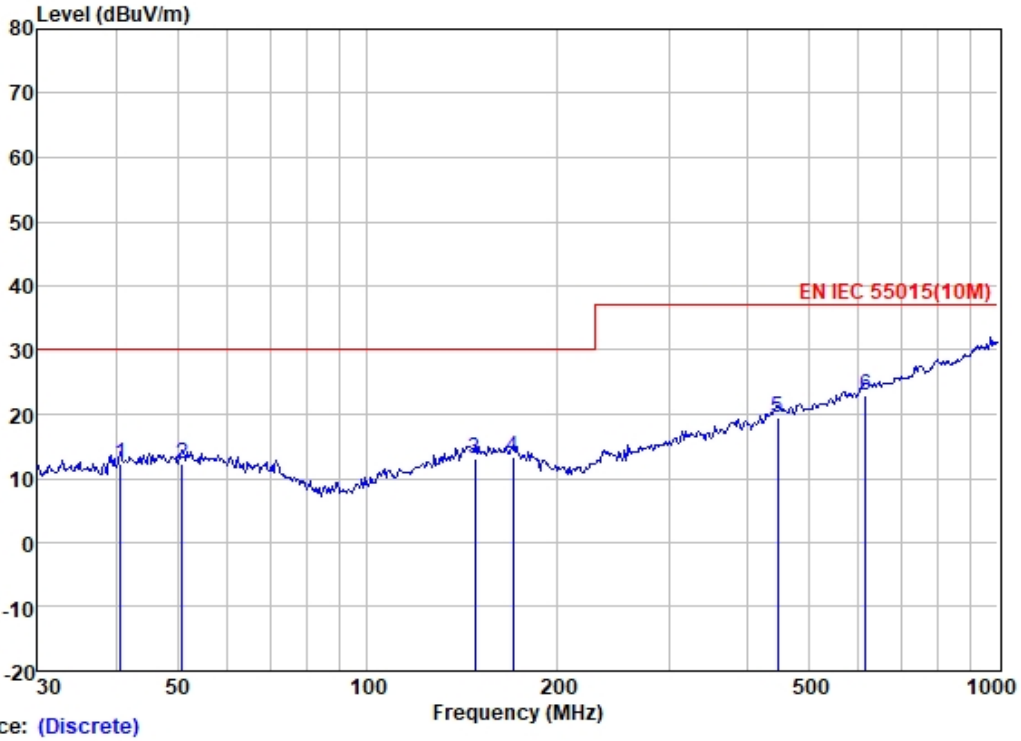
Mode:a; Polarization:Vertical; model: C37-5.5-XX/A11F/11/3



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M6
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	40.559	24.76	13.55	1.07	27.18	12.20	30.00	-17.80	VERTICAL	QP
2	50.764	24.39	13.93	1.20	27.17	12.35	30.00	-17.65	VERTICAL	QP
3	147.921	24.16	13.70	2.05	26.85	13.06	30.00	-16.94	VERTICAL	QP
4	170.195	24.71	13.10	2.25	26.77	13.29	30.00	-16.71	VERTICAL	QP
5	446.414	25.76	17.23	4.05	27.65	19.39	37.00	-17.61	VERTICAL	QP
6	616.372	25.84	20.35	4.88	28.20	22.87	37.00	-14.13	VERTICAL	QP

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检验检测专用章 Inspection & Testing Services

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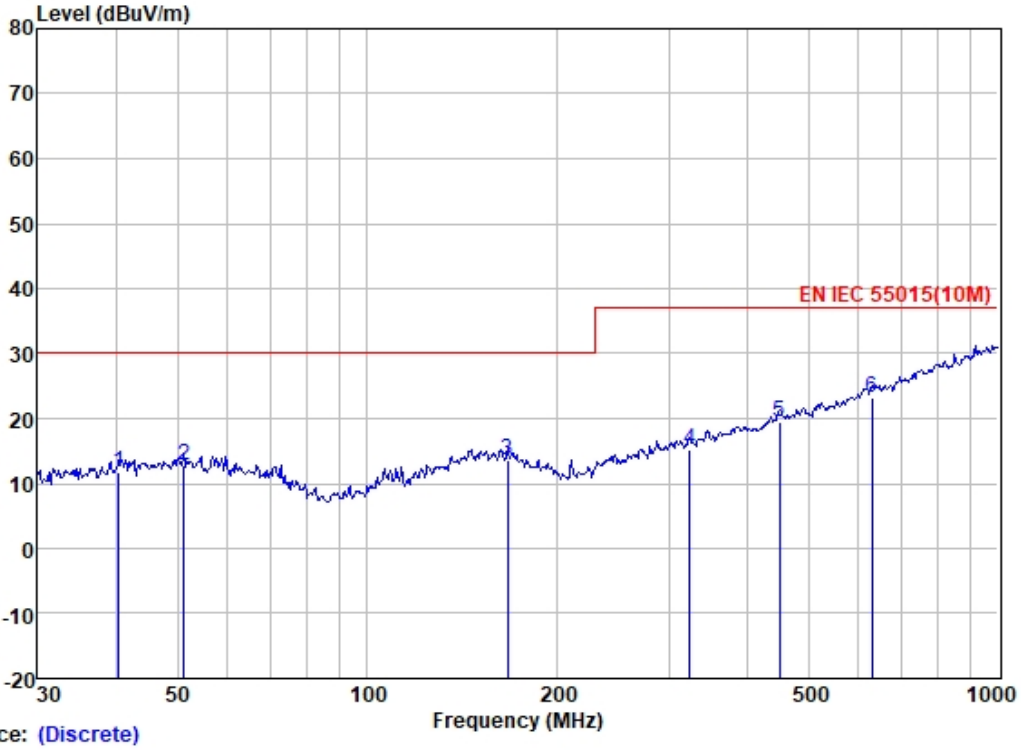
Mode:a; Polarization:Vertical; model: A60-6.5-27/G138/5Y2



race: (Discrete)
Site : SGS
Condition: EN IEC 55015(10M) 10m VERTICAL
Job :
Model : M7
Power :
Test Mode:

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	40.276	24.23	13.52	1.07	27.18	11.64	30.00	-18.36	VERTICAL	QP
2	51.121	24.72	13.95	1.21	27.17	12.71	30.00	-17.29	VERTICAL	QP
3	166.651	24.67	13.37	2.21	26.78	13.47	30.00	-16.53	VERTICAL	QP
4	324.456	24.46	14.40	3.01	26.69	15.18	37.00	-21.82	VERTICAL	QP
5	449.556	25.70	17.30	4.05	27.70	19.35	37.00	-17.65	VERTICAL	QP
6	629.477	25.96	20.40	4.94	28.20	23.10	37.00	-13.90	VERTICAL	QP

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6.3 Radiated Emissions (Magnetic field Induced Current)(9kHz-30MHz)

Test Requirement:	EN IEC 55015:2019
Test Method:	EN IEC 55015:2019
Frequency Range:	9kHz to 30MHz
Measurement Distance:	3m
Limit:	
0.009MHz-0.07MHz	88dB(μA) quasi-peak
0.07MHz-0.15MHz	88dB(μA)-58dB(μA) quasi-peak
0.15MHz-3MHz	58dB(μA)-22dB(μA) quasi-peak
3MHz-30MHz	22dB(μA) quasi-peak
Detector:	Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz
	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

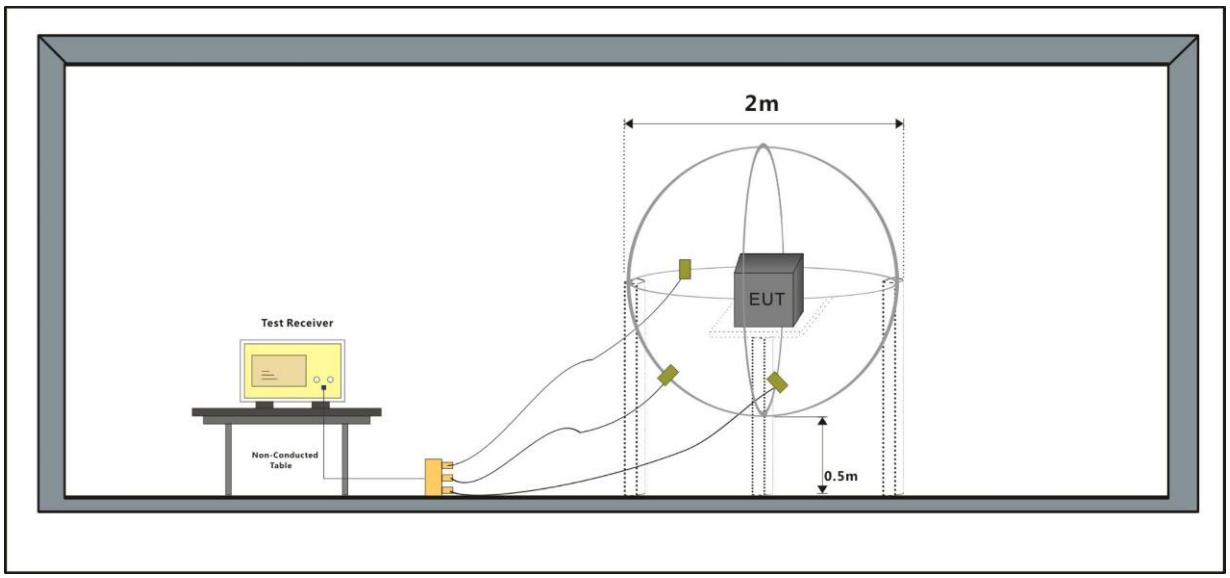
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

An initial pre-scan was performed in the 2m loop antenna using the spectrum analyser in peak detection mode. The EUT was measured for X(A), Y(B), Z(C) polarities.

Measured Level = Read Level + Antenna Factor + Cable Loss

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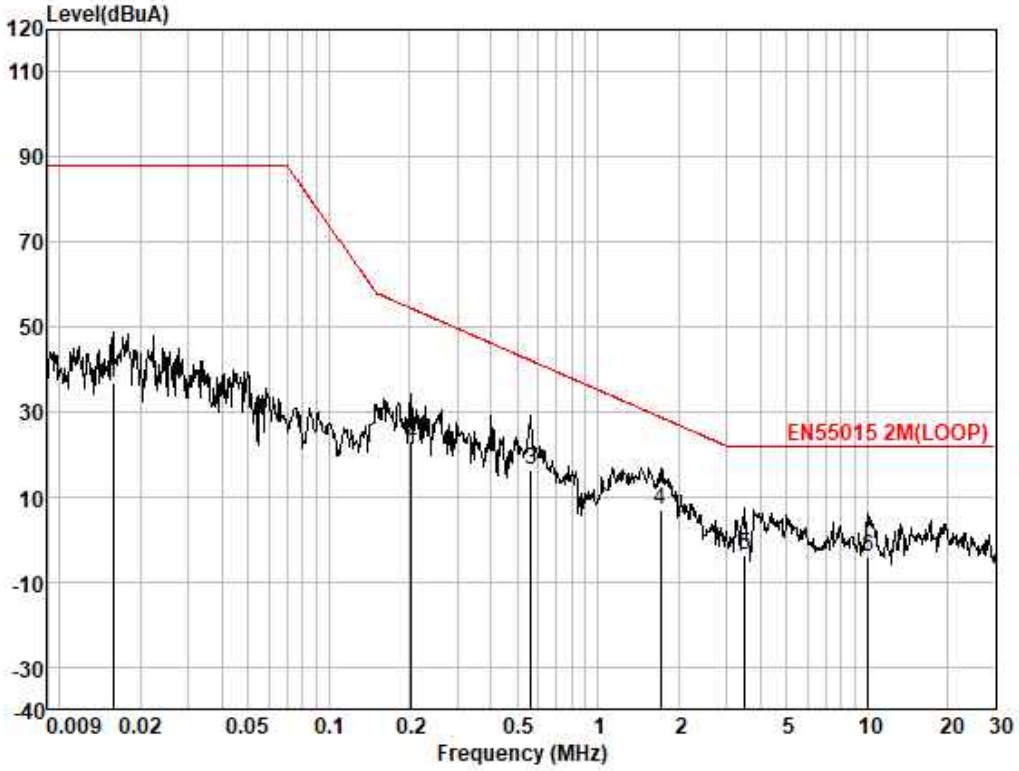
Mode:a; Axial:X; model: A60-14-XX/A12J/14/M



loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.02	36.90	0.00	-0.05	36.85	88.00	-51.15	QP
0.20	23.28	0.10	-0.20	23.18	54.38	-31.20	QP
0.56	16.18	0.10	0.00	16.28	42.09	-25.81	QP
1.71	6.29	0.19	0.34	6.82	28.74	-21.92	QP
3.52	-4.69	0.36	0.49	-3.84	22.00	-25.84	QP
10.12	-5.49	0.60	0.90	-3.99	22.00	-25.99	QP

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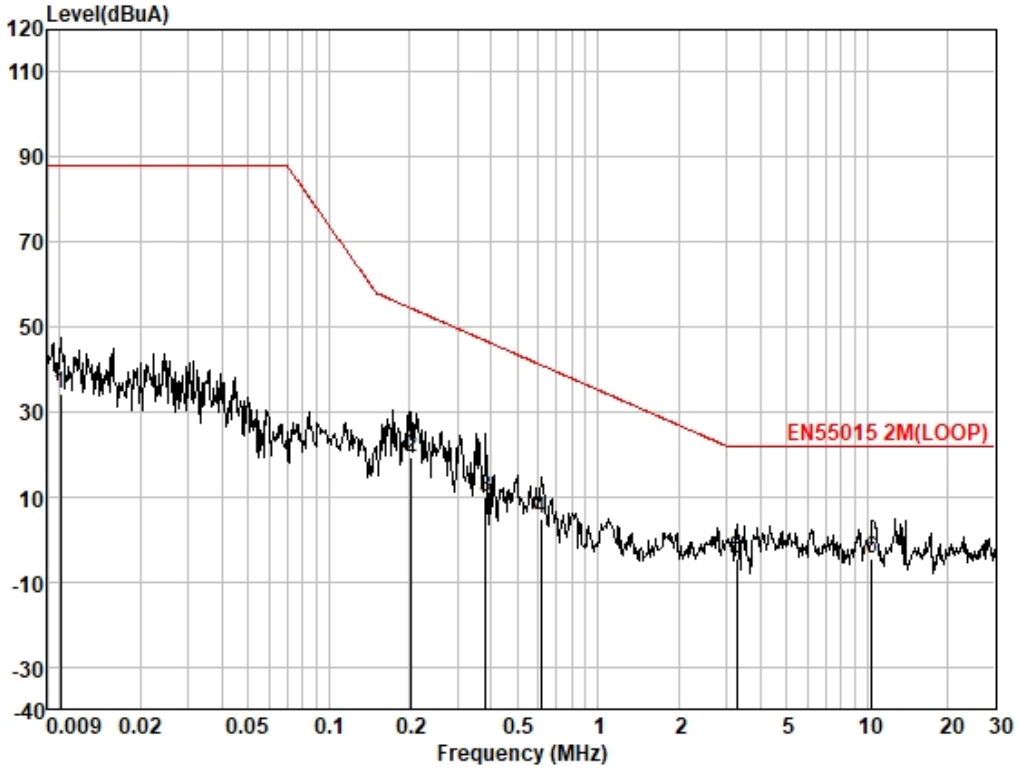
Mode:a; Axial:X; model: MR16-6-XX/E165/14/2J



loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	34.59	0.00	-0.20	34.39	88.00	-53.61	QP
0.20	19.28	0.10	-0.20	19.18	54.38	-35.20	QP
0.38	9.69	0.10	-0.01	9.78	46.77	-36.99	QP
0.62	4.62	0.10	0.00	4.72	41.02	-36.30	QP
3.28	-5.30	0.32	0.48	-4.50	22.00	-26.50	QP
10.45	-6.07	0.60	0.91	-4.56	22.00	-26.56	QP

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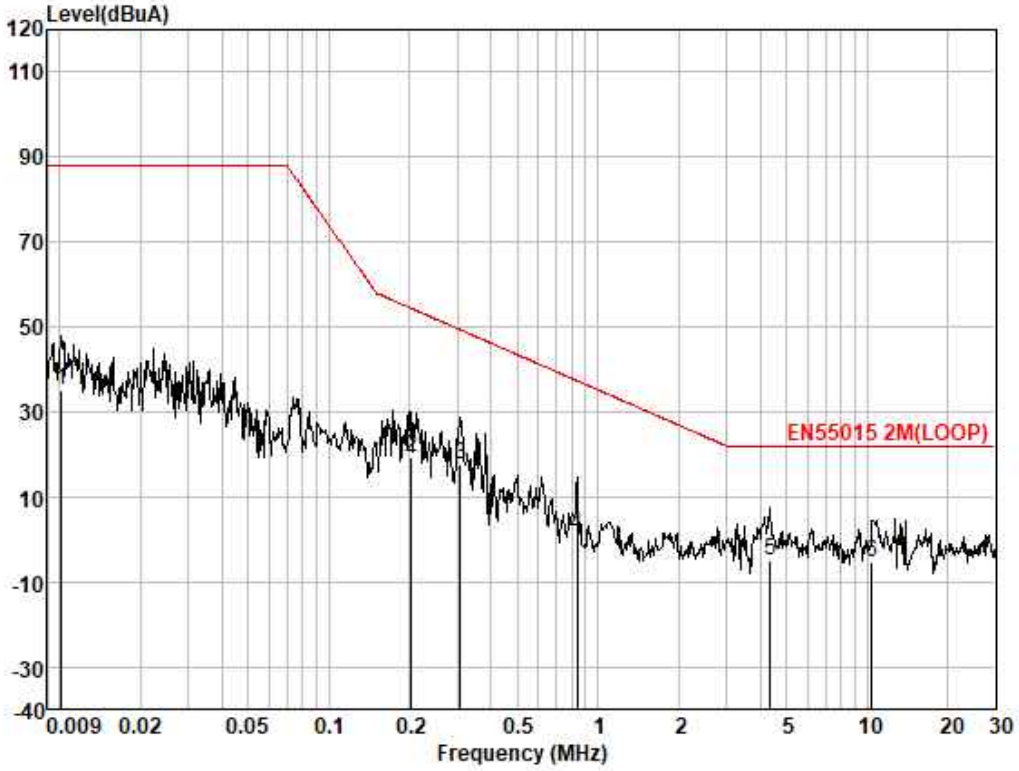
Mode:a; Axial:X; model: A60-6-XX/A13J/14/5/M



loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	35.28	0.00	-0.20	35.08	88.00	-52.92	QP
0.20	19.28	0.10	-0.20	19.18	54.38	-35.20	QP
0.31	17.53	0.10	-0.06	17.57	49.41	-31.84	QP
0.84	0.70	0.10	0.00	0.80	37.32	-36.52	QP
4.35	-5.78	0.40	0.58	-4.80	22.00	-26.80	QP
10.45	-7.07	0.60	0.91	-5.56	22.00	-27.56	QP

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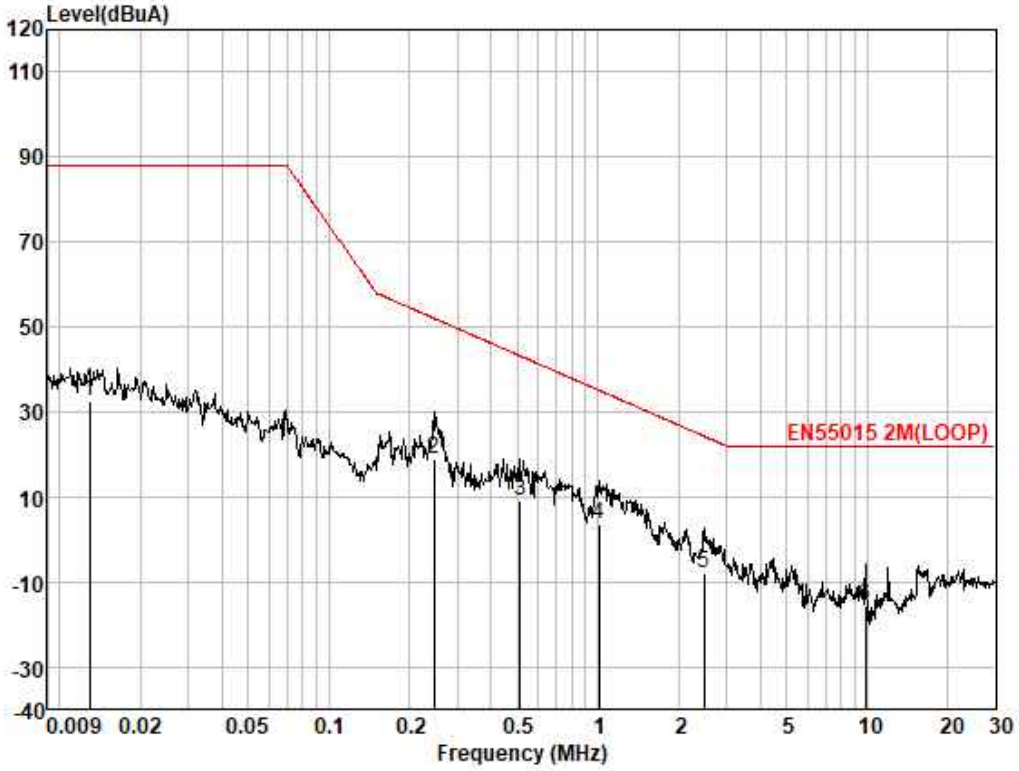
Mode:a; Axial:X; model: A60-9-XX/A12J/14/5



loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	32.58	0.00	-0.15	32.43	88.00	-55.57	QP
0.25	18.91	0.10	-0.16	18.85	52.04	-33.19	QP
0.52	8.93	0.10	0.00	9.03	43.17	-34.14	QP
1.01	3.54	0.10	0.00	3.64	35.08	-31.44	QP
2.49	-8.85	0.26	0.42	-8.17	24.26	-32.43	QP
9.87	-17.33	0.60	0.90	-15.83	22.00	-37.83	QP

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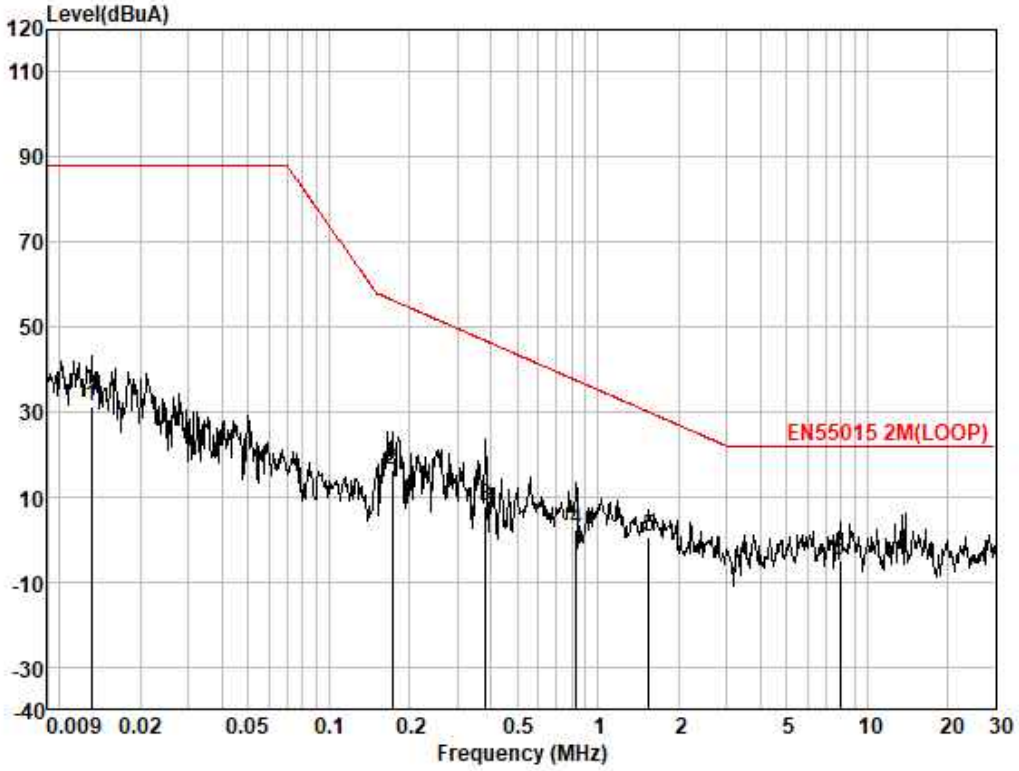
Mode:a; Axial:X; model: G45-5.5-XX/A12F/11/3



loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	31.37	0.00	-0.14	31.23	88.00	-56.77	QP
0.17	16.20	0.10	-0.19	16.11	56.33	-40.22	QP
0.38	7.69	0.10	-0.01	7.78	46.77	-38.99	QP
0.83	2.09	0.10	0.00	2.19	37.42	-35.23	QP
1.54	0.28	0.17	0.28	0.73	30.01	-29.28	QP
7.93	-6.38	0.50	0.90	-4.98	22.00	-26.98	QP

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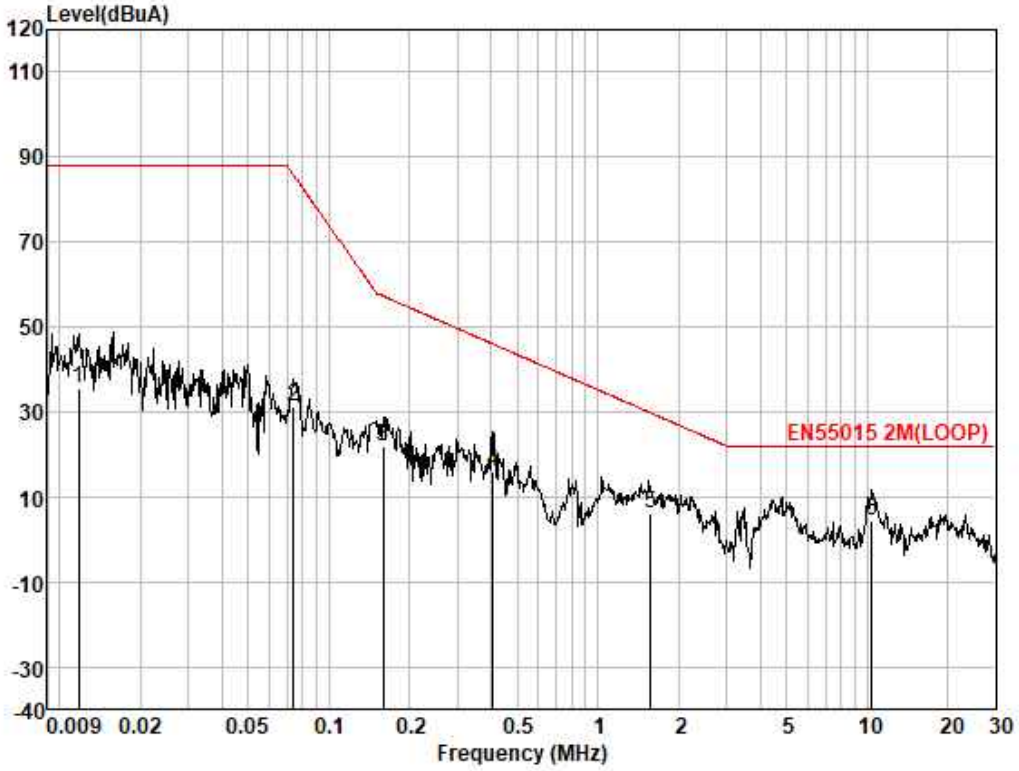
Mode:a; Axial:X; model: GU10-6-XX/A159/14/XJ



loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	35.48	0.00	-0.17	35.31	88.00	-52.69	QP
0.07	31.15	0.00	0.02	31.17	85.73	-54.56	QP
0.16	22.05	0.10	-0.18	21.97	57.30	-35.33	QP
0.41	15.96	0.10	0.00	16.06	45.99	-29.93	QP
1.57	5.73	0.17	0.30	6.20	29.81	-23.61	QP
10.45	2.65	0.60	0.91	4.16	22.00	-17.84	QP

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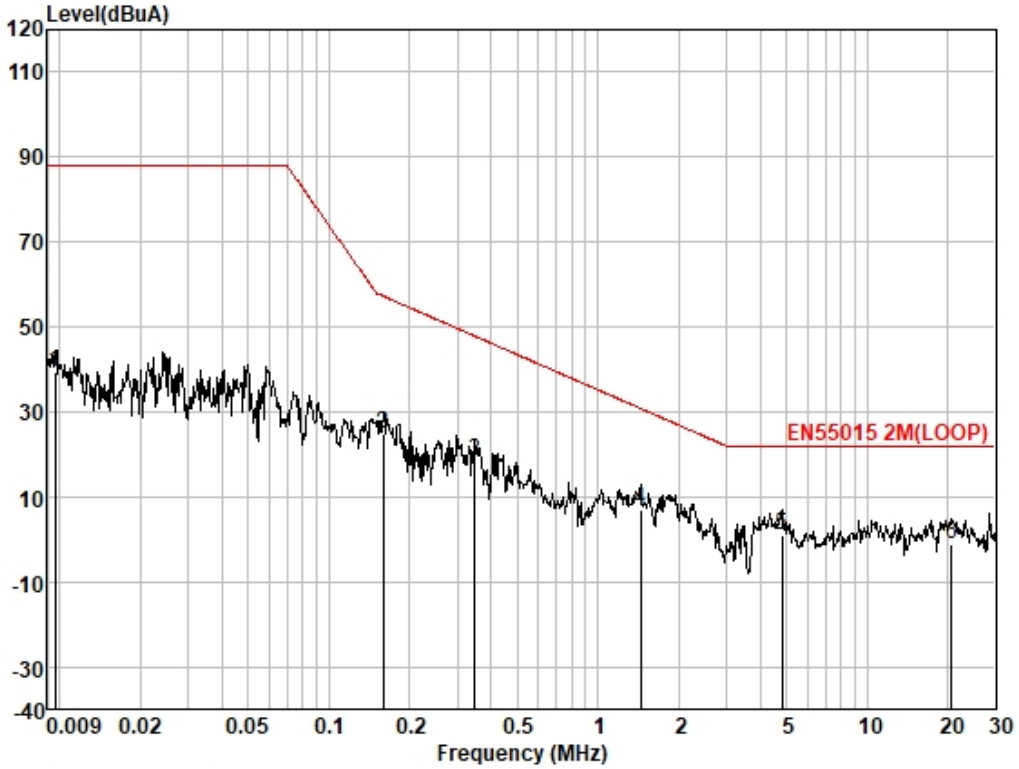

loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	39.69	0.00	-0.33	39.36	88.00	-48.64	QP
0.16	24.93	0.10	-0.18	24.85	57.30	-32.45	QP
0.35	18.40	0.10	-0.02	18.48	47.85	-29.37	QP
1.44	6.42	0.16	0.22	6.80	30.79	-23.99	QP
4.84	-0.31	0.40	0.76	0.85	22.00	-21.15	QP
20.66	-3.25	0.90	1.30	-1.05	22.00	-23.05	QP

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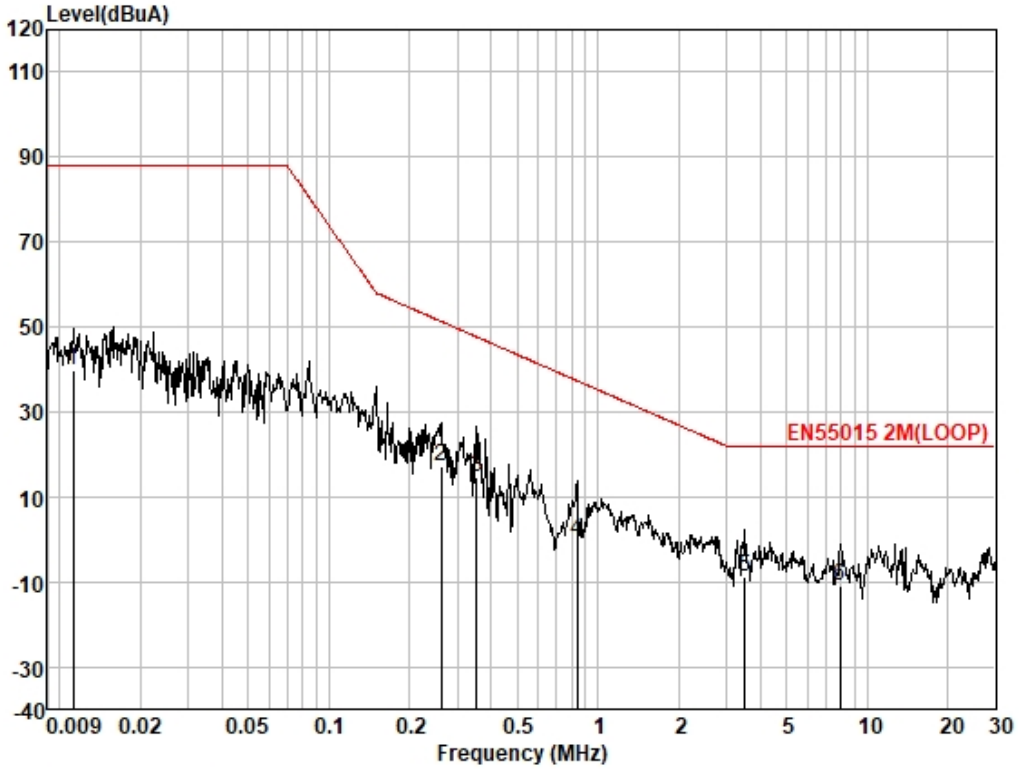
Mode:a; Axial:X; model: A60-6.5-27/G138/5Y2



loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	39.93	0.00	-0.18	39.75	88.00	-48.25	QP
0.26	17.25	0.10	-0.14	17.21	51.36	-34.15	QP
0.35	14.67	0.10	-0.02	14.75	47.65	-32.90	QP
0.84	-0.30	0.10	0.00	-0.20	37.32	-37.52	QP
3.52	-9.69	0.36	0.49	-8.84	22.00	-30.84	QP
7.93	-12.38	0.50	0.90	-10.98	22.00	-32.98	QP

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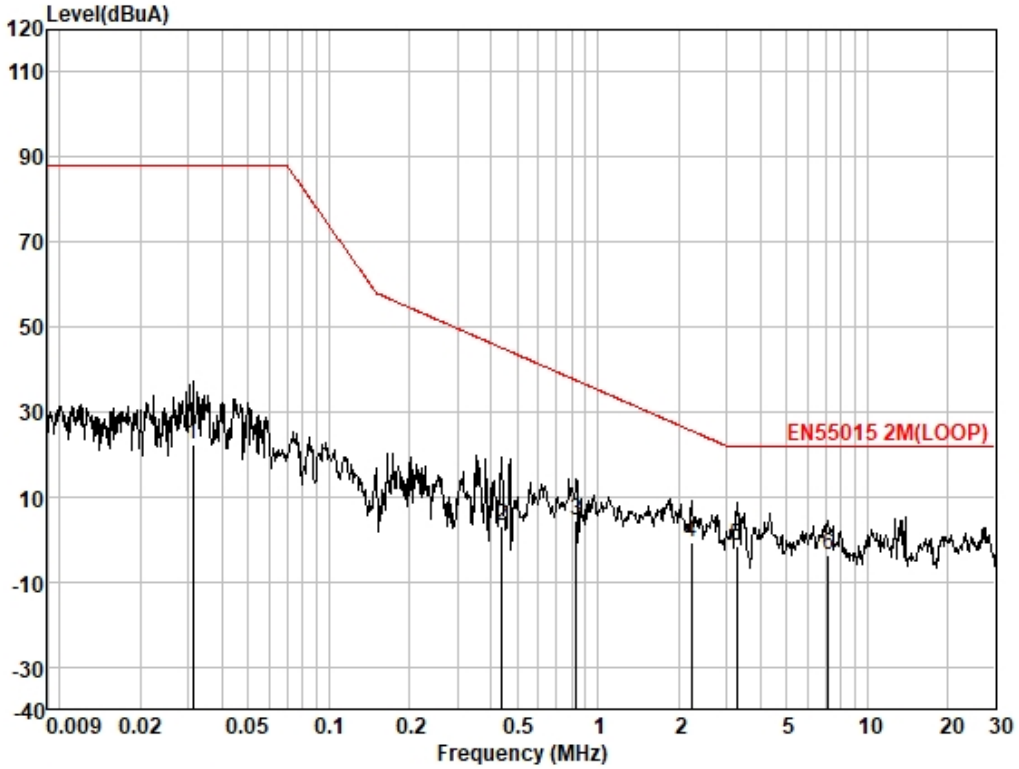

loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.03	21.76	0.00	0.37	22.13	88.00	-65.87	QP
0.44	3.18	0.10	0.00	3.28	45.12	-41.84	QP
0.83	4.09	0.10	0.00	4.19	37.42	-33.23	QP
2.22	-1.55	0.22	0.41	-0.92	25.62	-26.54	QP
3.28	-2.30	0.32	0.48	-1.50	22.00	-23.50	QP
7.20	-5.01	0.50	0.97	-3.54	22.00	-25.54	QP

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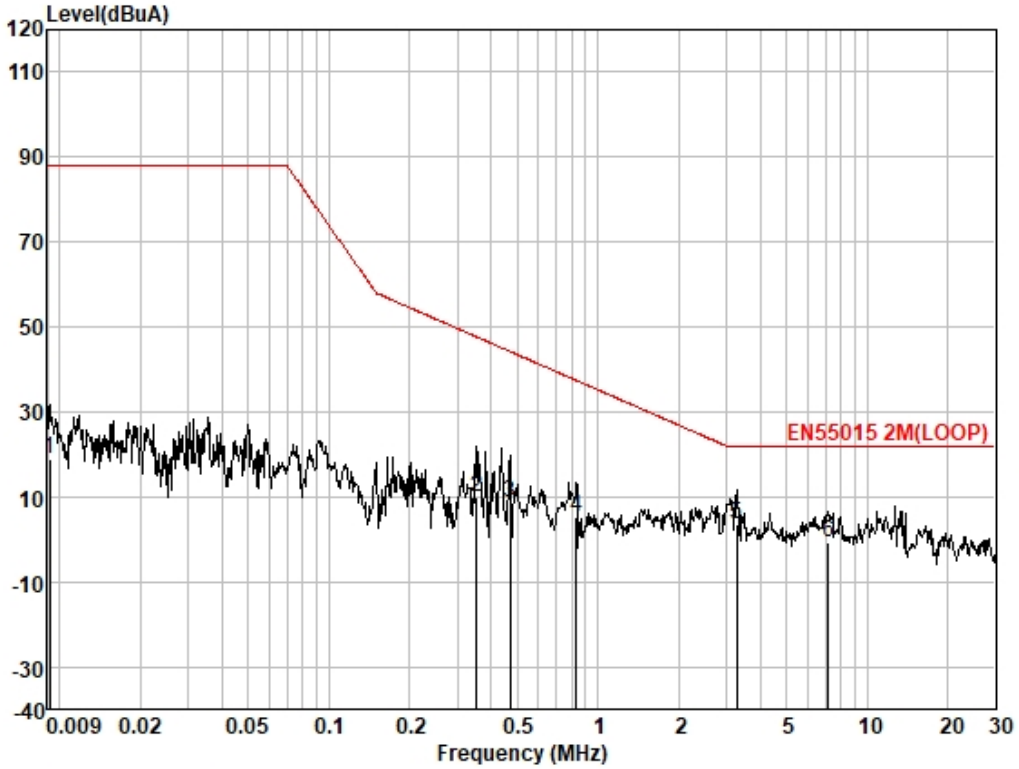
Mode:a; Axial:X; model: C35-4-27/G118/5Y2



loop : X
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	19.35	0.00	-0.54	18.81	88.00	-69.19	QP
0.35	9.67	0.10	-0.02	9.75	47.65	-37.90	QP
0.47	8.70	0.10	0.00	8.80	44.24	-35.44	QP
0.83	5.09	0.10	0.00	5.19	37.42	-32.23	QP
3.28	2.70	0.32	0.48	3.50	22.00	-18.50	QP
7.20	-2.01	0.50	0.97	-0.54	22.00	-22.54	QP

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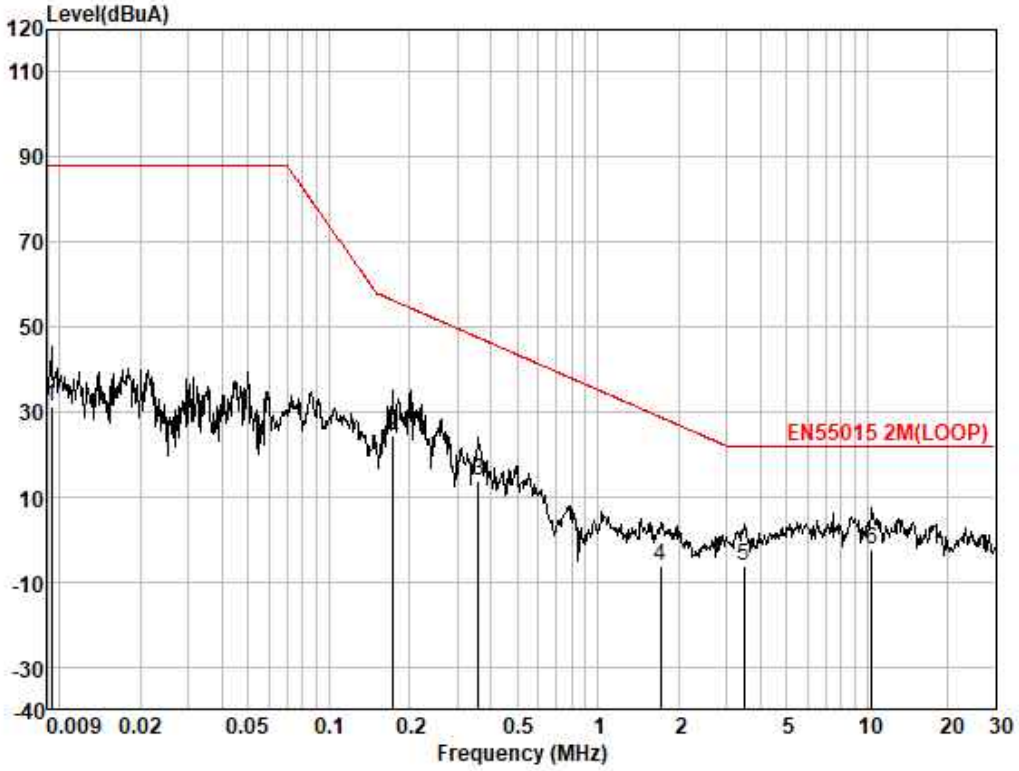
Mode:a; Axial:Y; model: A60-14-XX/A12J/14/M



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	32.07	0.00	-0.87	31.20	88.00	-56.80	QP
0.17	24.38	0.10	-0.21	24.27	56.23	-31.96	QP
0.36	13.81	0.10	-0.02	13.89	47.46	-33.57	QP
1.71	-6.34	0.19	-0.03	-6.18	28.74	-34.92	QP
3.50	-7.04	0.35	0.27	-6.42	22.00	-28.42	QP
10.45	-3.88	0.60	0.72	-2.56	22.00	-24.56	QP

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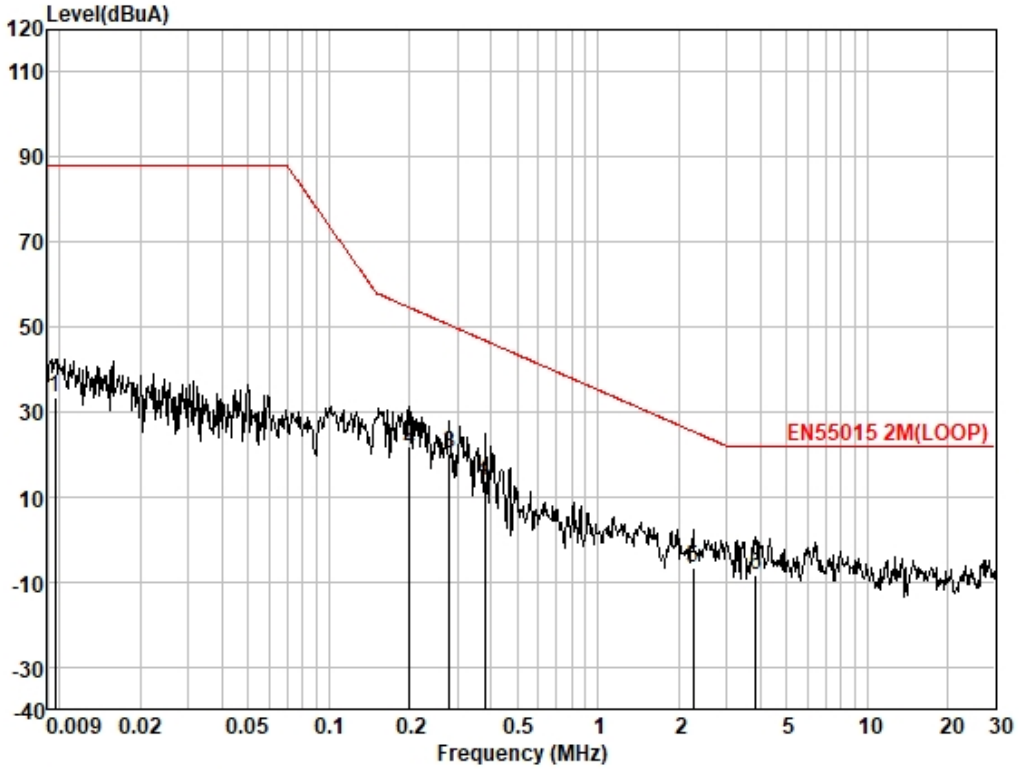
Mode:a; Axial:Y; model: MR16-6-XX/E165/14/2J



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	34.19	0.00	-0.83	33.36	88.00	-54.64	QP
0.20	22.14	0.10	-0.20	22.04	54.57	-32.53	QP
0.28	19.98	0.10	-0.11	19.97	50.48	-30.51	QP
0.38	13.74	0.10	-0.01	13.83	46.87	-33.04	QP
2.26	-7.07	0.22	0.03	-6.82	25.43	-32.25	QP
3.85	-9.08	0.39	0.29	-8.40	22.00	-30.40	QP

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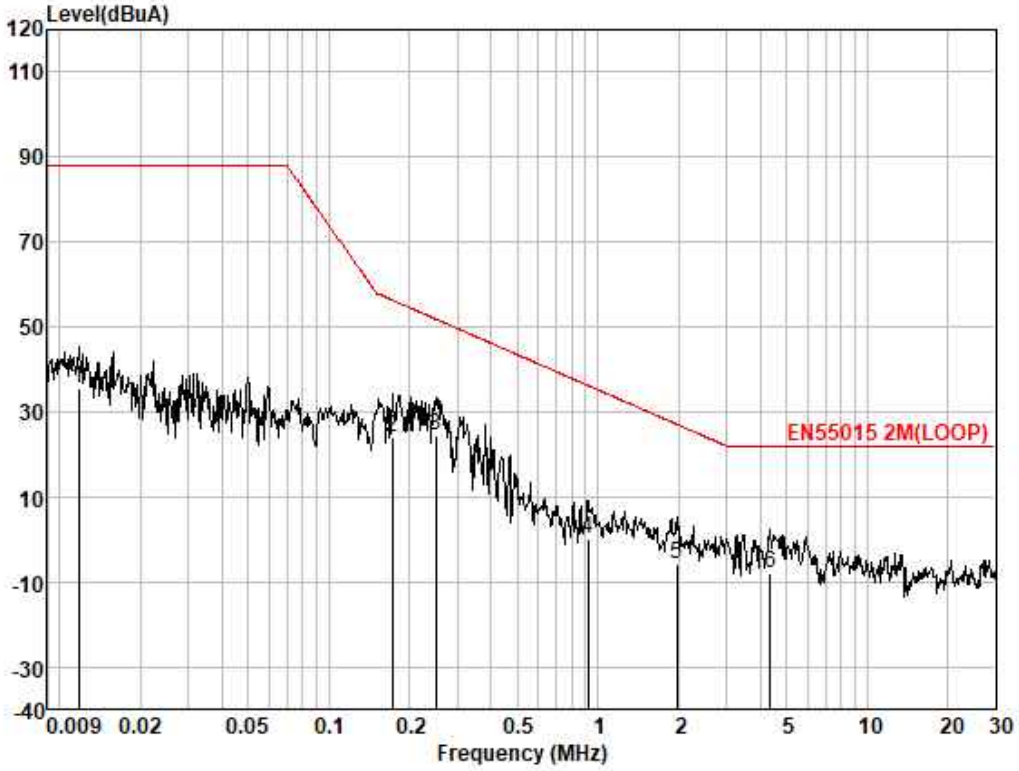
Mode:a; Axial:Y; model: A60-6-XX/A13J/14/5/M



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	36.05	0.00	-0.74	35.31	88.00	-52.69	QP
0.17	24.22	0.10	-0.21	24.11	56.33	-32.22	QP
0.25	24.53	0.10	-0.15	24.48	51.84	-27.36	QP
0.92	0.31	0.10	-0.20	0.21	36.25	-36.04	QP
1.97	-5.92	0.20	0.00	-5.72	27.08	-32.80	QP
4.35	-8.54	0.40	0.34	-7.80	22.00	-29.80	QP

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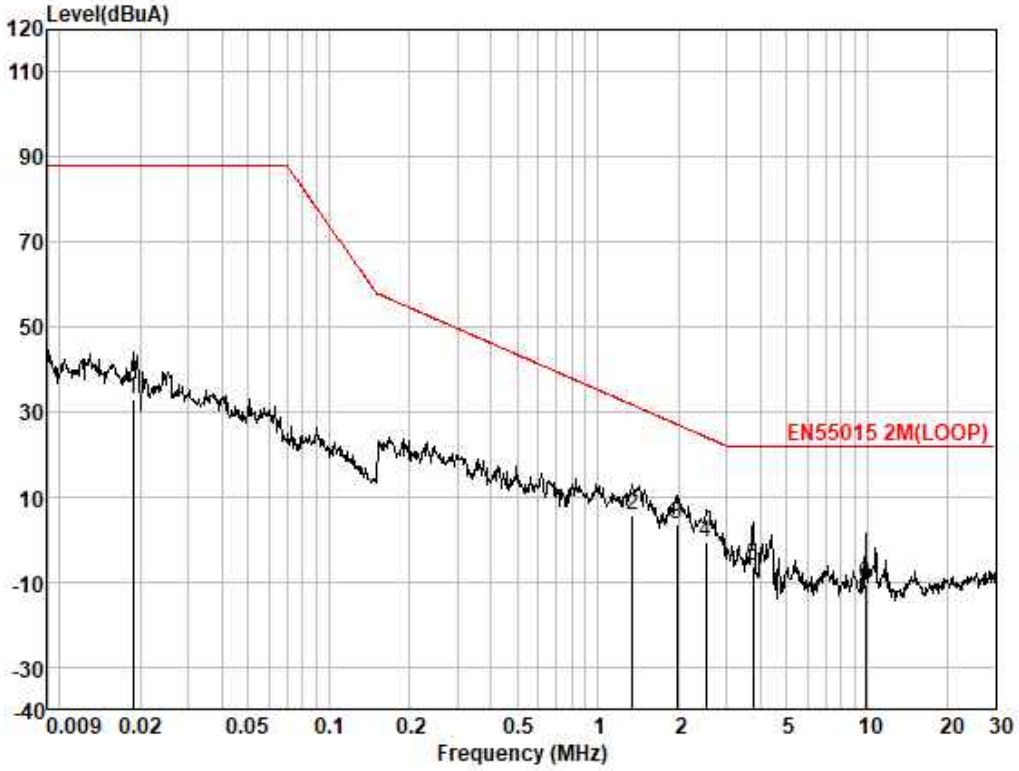
Mode:a; Axial:Y; model: A60-9-XX/A12J/14/5



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.02	32.92	0.00	0.09	33.01	88.00	-54.99	QP
1.34	5.66	0.13	0.00	5.79	31.66	-25.87	QP
1.97	3.12	0.20	0.20	3.52	27.08	-23.56	QP
2.53	-1.45	0.26	0.25	-0.94	24.06	-25.00	QP
3.76	-7.00	0.38	0.39	-6.23	22.00	-28.23	QP
9.87	-12.22	0.60	0.89	-10.73	22.00	-32.73	QP

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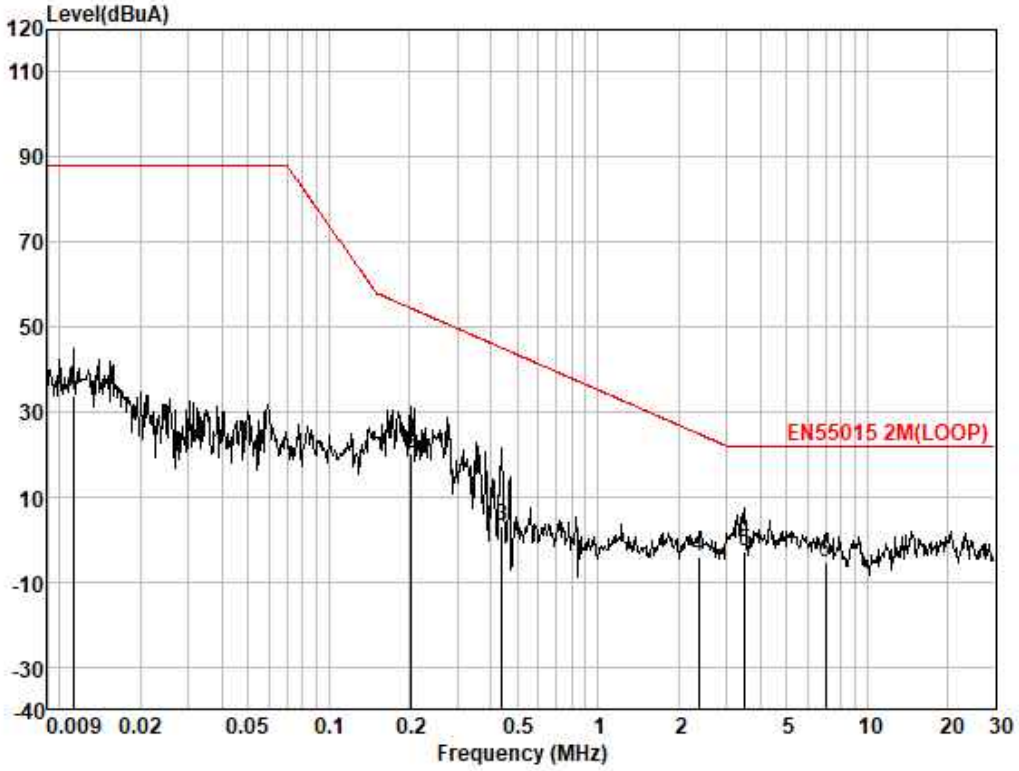
Mode:a; Axial:Y; model: G45-5.5-XX/A12F/11/3



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	34.51	0.00	-0.76	33.75	88.00	-54.25	QP
0.20	20.28	0.10	-0.20	20.18	54.38	-34.20	QP
0.44	3.21	0.10	-0.03	3.28	45.12	-41.84	QP
2.37	-4.55	0.24	0.05	-4.26	24.84	-29.10	QP
3.52	-3.47	0.36	0.27	-2.84	22.00	-24.84	QP
7.02	-6.56	0.50	0.60	-5.46	22.00	-27.46	QP

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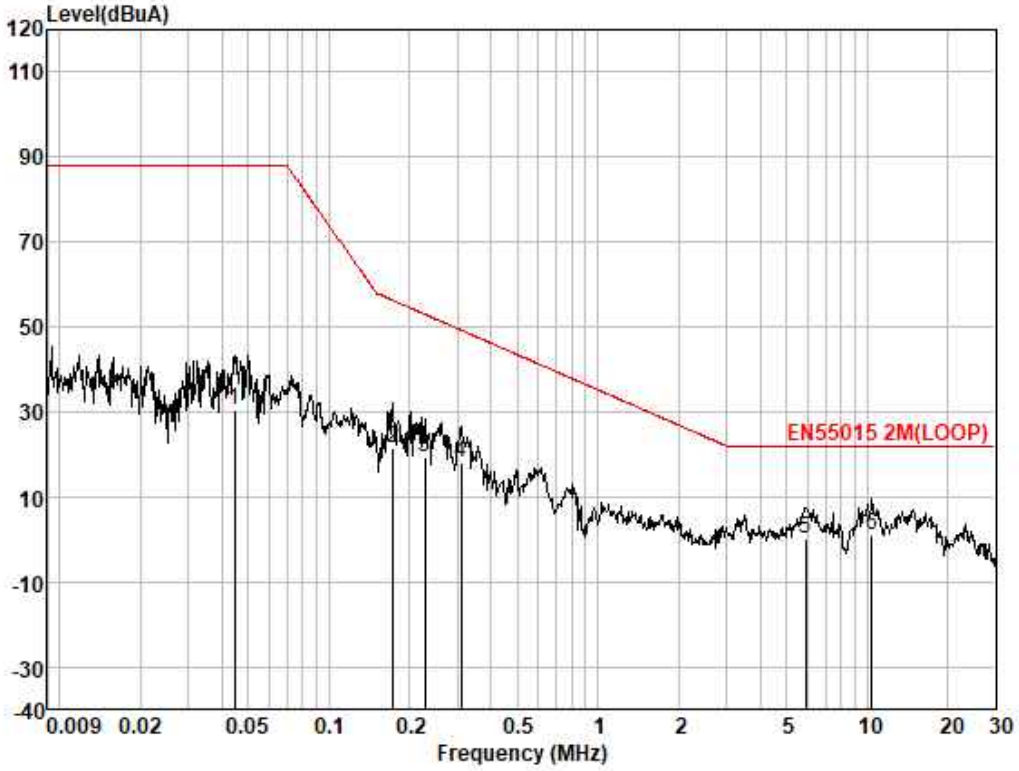
Mode:a; Axial:Y; model: GU10-6-XX/A159/14/XJ



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.04	30.95	0.00	-0.40	30.55	88.00	-57.45	QP
0.17	21.48	0.10	-0.21	21.37	56.23	-34.86	QP
0.23	19.59	0.10	-0.18	19.51	53.01	-33.50	QP
0.31	18.11	0.10	-0.06	18.15	49.31	-31.16	QP
5.92	-0.96	0.49	0.59	0.12	22.00	-21.88	QP
10.45	-0.37	0.60	0.72	0.95	22.00	-21.05	QP

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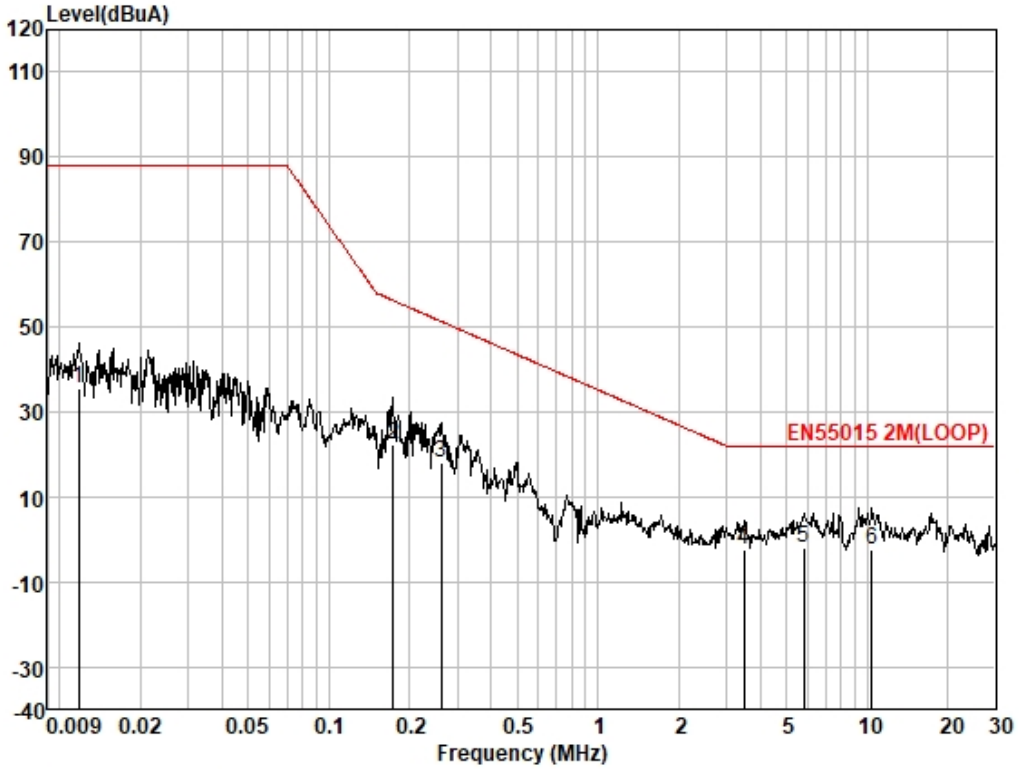
Mode:a; Axial:Y; model: C37-5.5-XX/A11F/11/3



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	36.05	0.00	-0.74	35.31	88.00	-52.69	QP
0.17	22.38	0.10	-0.21	22.27	56.23	-33.96	QP
0.26	18.25	0.10	-0.14	18.21	51.36	-33.15	QP
3.50	-3.04	0.35	0.27	-2.42	22.00	-24.42	QP
5.83	-2.92	0.49	0.59	-1.84	22.00	-23.84	QP
10.45	-3.88	0.60	0.72	-2.56	22.00	-24.56	QP

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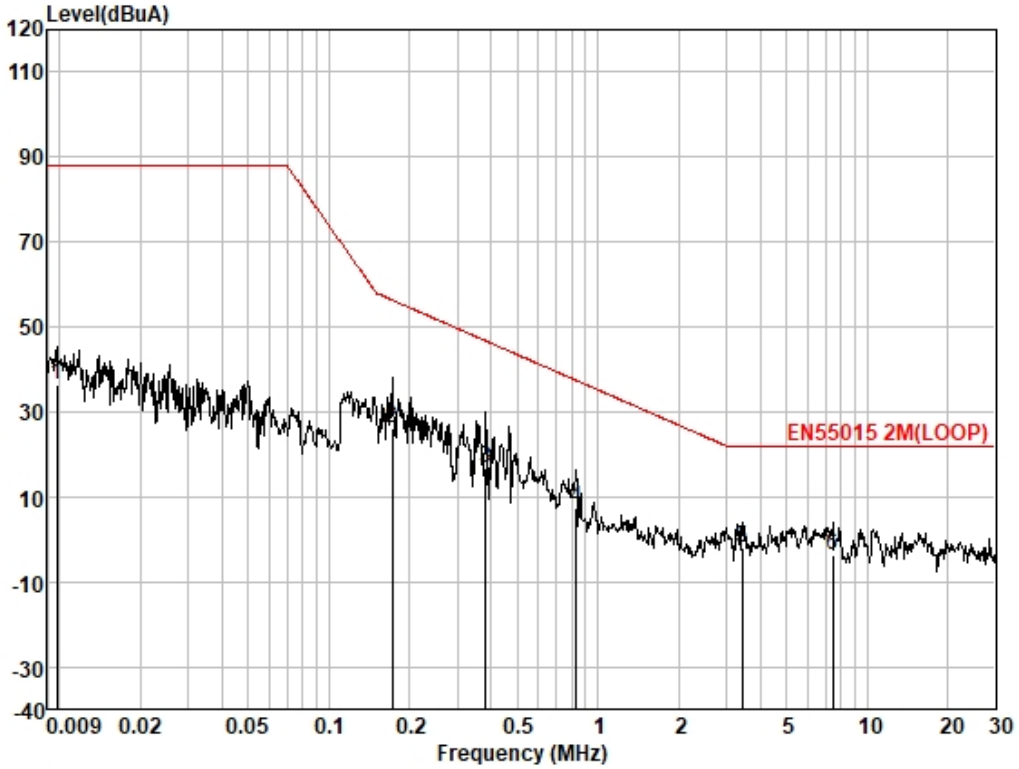
Mode:a; Axial:Y; model: A60-6.5-27/G138/5Y2



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	37.17	0.00	-0.82	36.35	88.00	-51.65	QP
0.17	26.22	0.10	-0.21	26.11	56.33	-30.22	QP
0.38	16.69	0.10	-0.01	16.78	46.77	-29.99	QP
0.83	7.29	0.10	-0.20	7.19	37.42	-30.23	QP
3.44	-2.51	0.35	0.26	-1.90	22.00	-23.90	QP
7.43	-4.98	0.50	0.60	-3.88	22.00	-25.88	QP

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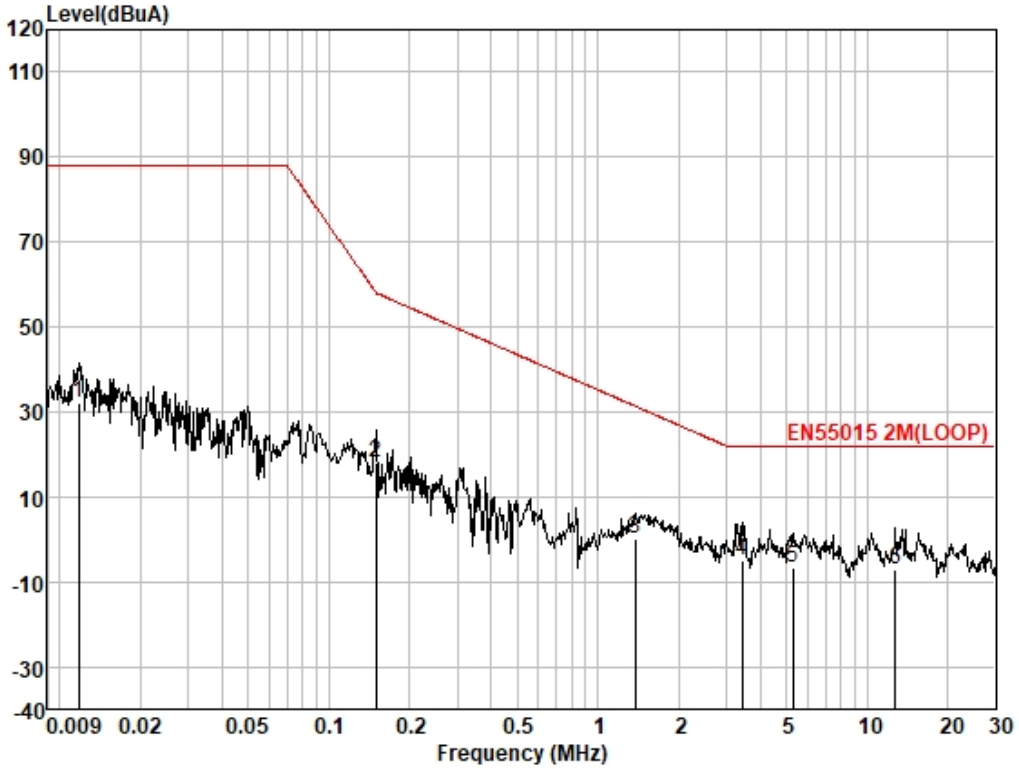
Mode:a; Axial:Y; model: A60-6.5-27/G138/5Y2



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	33.05	0.00	-0.74	32.31	88.00	-55.69	QP
0.15	18.00	0.10	-0.23	17.87	57.98	-40.11	QP
1.38	0.09	0.14	-0.12	0.11	31.37	-31.26	QP
3.44	-5.51	0.35	0.26	-4.90	22.00	-26.90	QP
5.29	-7.76	0.43	0.53	-6.80	22.00	-28.80	QP
12.70	-8.89	0.67	0.87	-7.35	22.00	-29.35	QP

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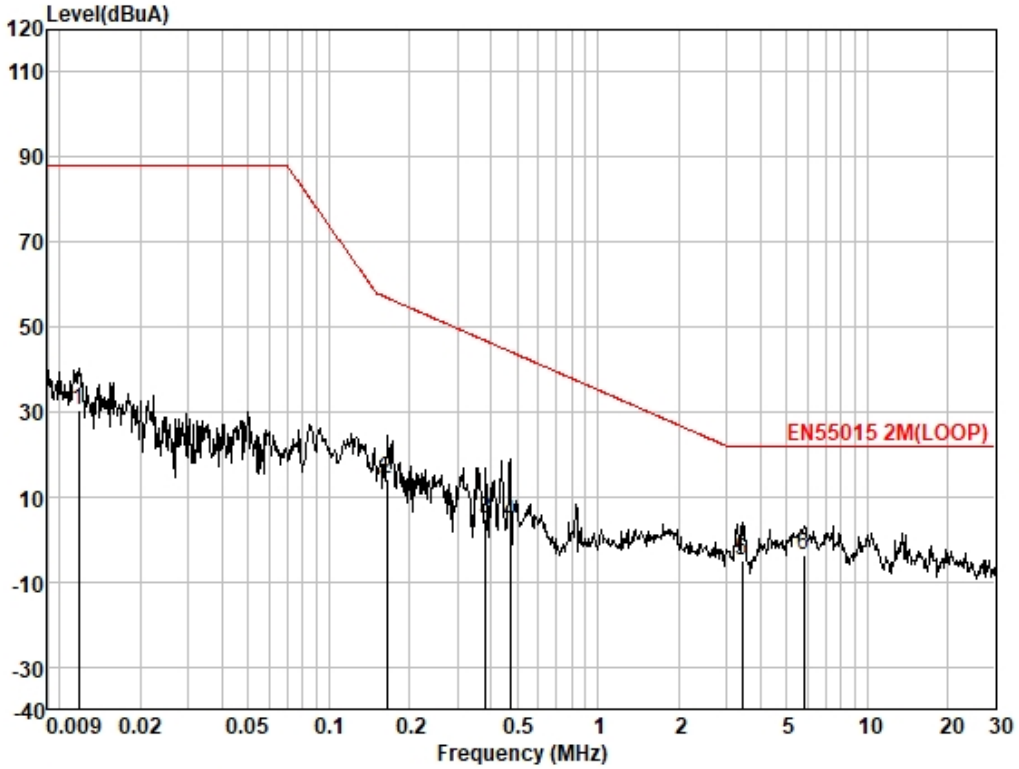
Mode:a; Axial:Y; model: C35-4-27/G118/5Y2



loop : Y
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	31.05	0.00	-0.74	30.31	88.00	-57.69	QP
0.16	14.40	0.10	-0.22	14.28	56.91	-42.63	QP
0.38	4.69	0.10	-0.01	4.78	46.77	-41.99	QP
0.47	3.77	0.10	-0.07	3.80	44.24	-40.44	QP
3.44	-5.51	0.35	0.26	-4.90	22.00	-26.90	QP
5.83	-4.92	0.49	0.59	-3.84	22.00	-25.84	QP

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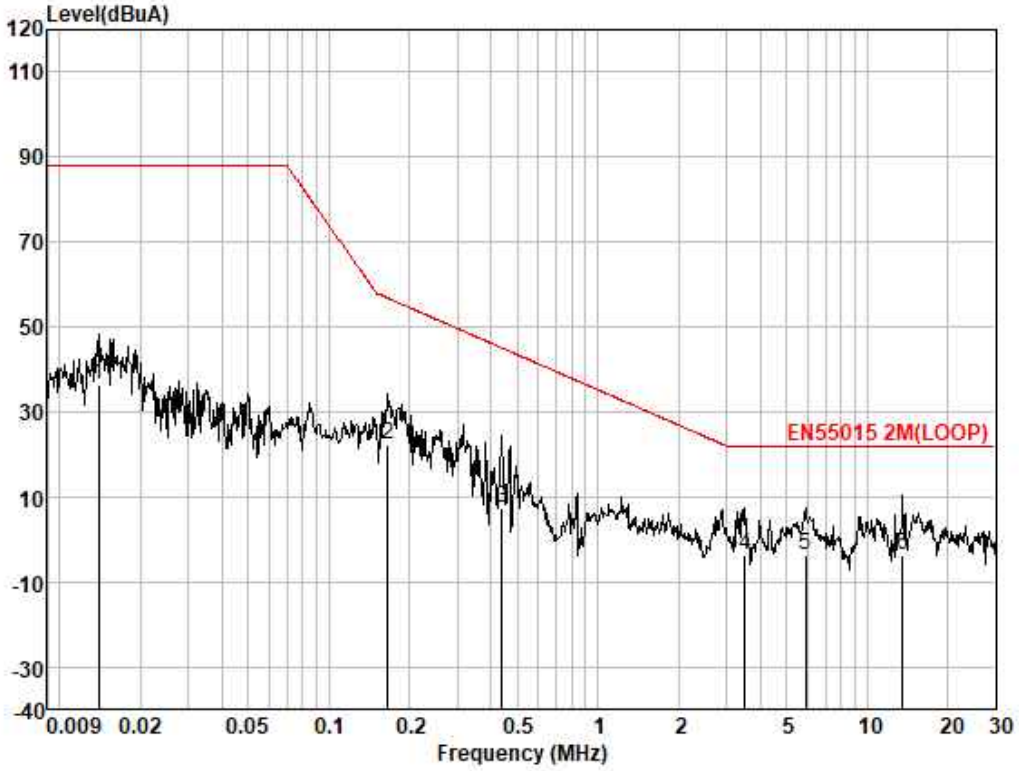
Mode:a; Axial:Z; model: A60-14-XX/A12J/14/M



loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	36.31	0.00	-0.01	36.30	88.00	-51.70	QP
0.17	22.29	0.10	-0.29	22.10	56.81	-34.71	QP
0.44	7.23	0.10	-0.05	7.28	45.12	-37.84	QP
3.52	-4.58	0.36	0.38	-3.84	22.00	-25.84	QP
5.92	-4.53	0.49	0.50	-3.54	22.00	-25.54	QP
13.55	-5.53	0.70	1.26	-3.57	22.00	-25.57	QP

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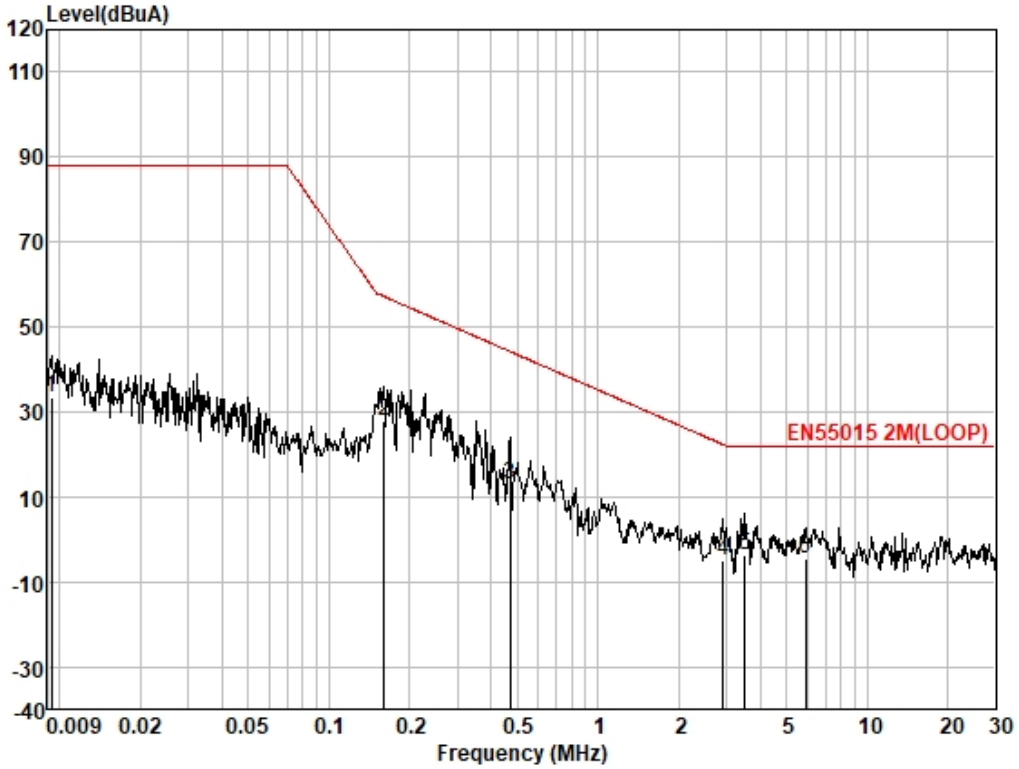
Mode:a; Axial:Z; model: MR16-6-XX/E165/14/2J



loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	33.86	0.00	-0.66	33.20	88.00	-54.80	QP
0.16	28.11	0.10	-0.31	27.90	57.20	-29.30	QP
0.47	12.80	0.10	-0.10	12.80	44.24	-31.44	QP
2.92	-5.77	0.30	0.32	-5.15	22.31	-27.46	QP
3.52	-4.58	0.36	0.38	-3.84	22.00	-25.84	QP
5.92	-5.53	0.49	0.50	-4.54	22.00	-26.54	QP

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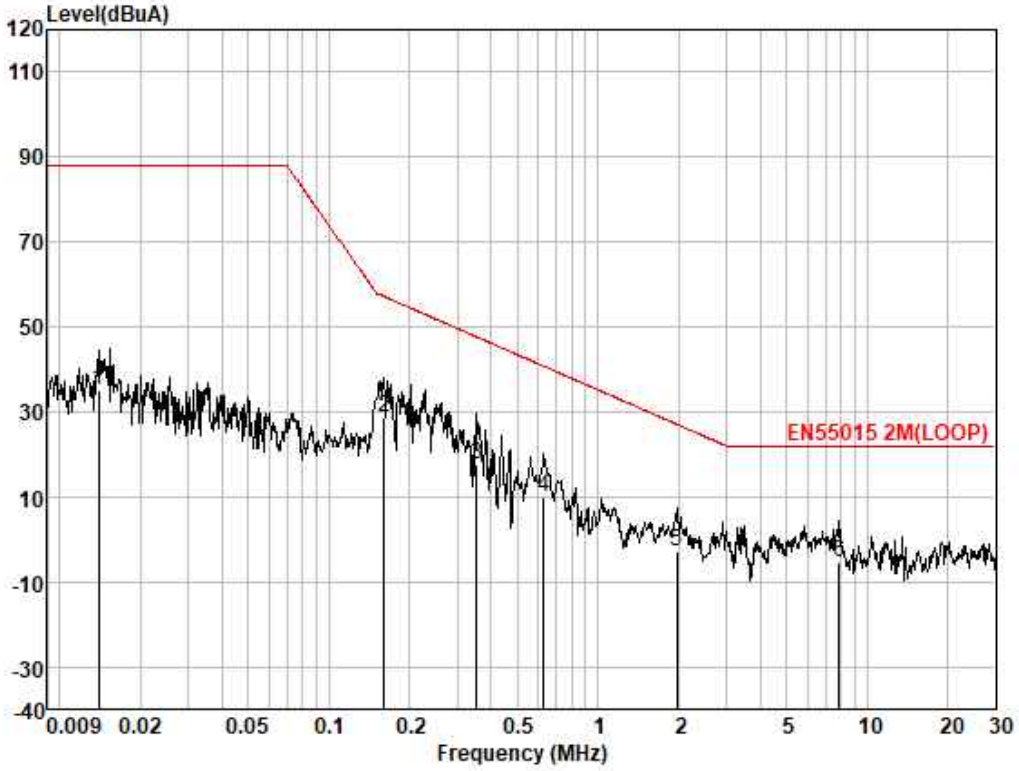
Mode:a; Axial:Z; model: A60-6-XX/A13J/14/5/M



loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	35.31	0.00	-0.01	35.30	88.00	-52.70	QP
0.16	29.11	0.10	-0.31	28.90	57.20	-28.30	QP
0.35	17.67	0.10	-0.02	17.75	47.65	-29.90	QP
0.63	10.22	0.10	-0.29	10.03	40.83	-30.80	QP
1.97	-3.12	0.20	0.20	-2.72	27.08	-29.80	QP
7.87	-6.65	0.50	0.69	-5.46	22.00	-27.46	QP

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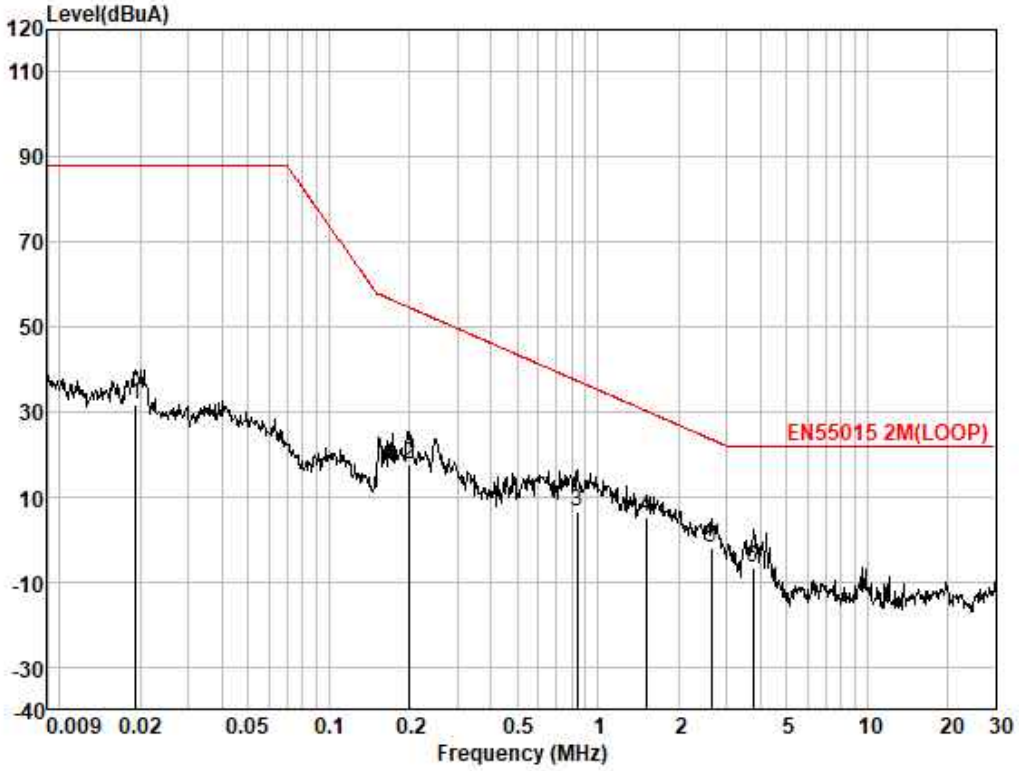

loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.02	31.78	0.00	0.09	31.87	88.00	-56.13	QP
0.20	17.54	0.10	-0.20	17.44	54.57	-37.13	QP
0.84	6.54	0.10	-0.18	6.46	37.32	-30.86	QP
1.50	5.00	0.17	0.10	5.27	30.30	-25.03	QP
2.63	-2.67	0.28	0.26	-2.13	23.57	-25.70	QP
3.76	-7.36	0.38	0.39	-6.59	22.00	-28.59	QP

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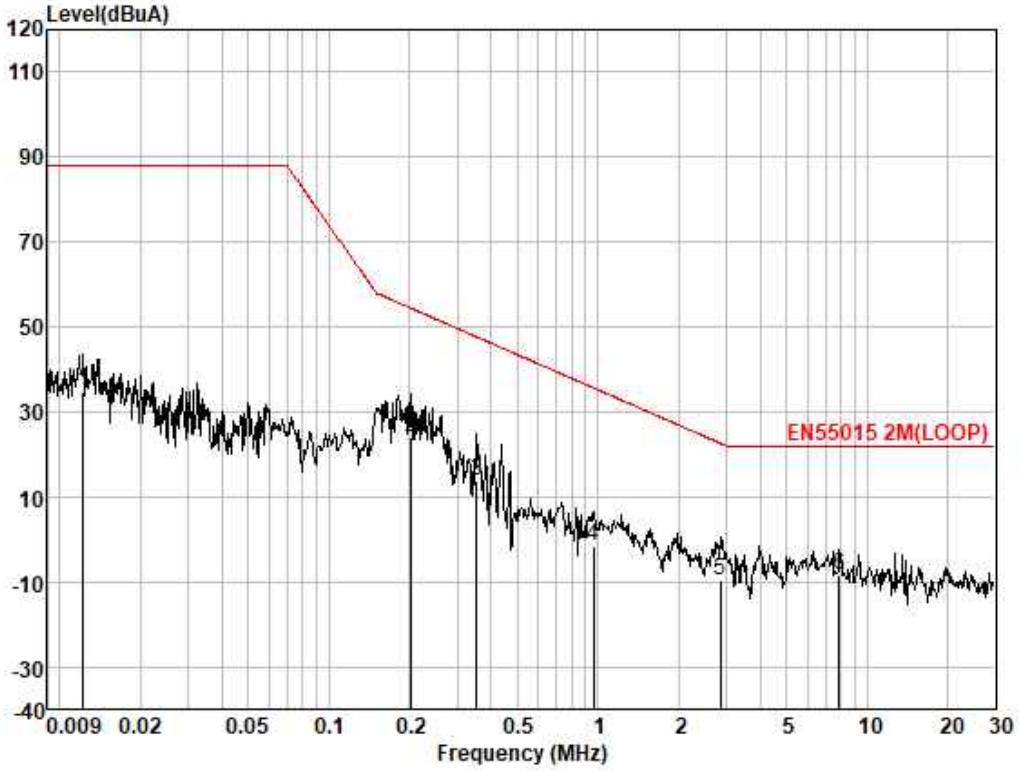
Mode:a; Axial:Z; model: G45-5.5-XX/A12F/11/3



loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	34.70	0.00	-0.06	34.64	88.00	-53.36	QP
0.20	24.28	0.10	-0.20	24.18	54.38	-30.20	QP
0.35	13.67	0.10	-0.02	13.75	47.65	-33.90	QP
0.96	-1.54	0.10	-0.11	-1.55	35.66	-37.21	QP
2.85	-10.12	0.29	0.31	-9.52	22.60	-32.12	QP
7.87	-9.65	0.50	0.69	-8.46	22.00	-30.46	QP

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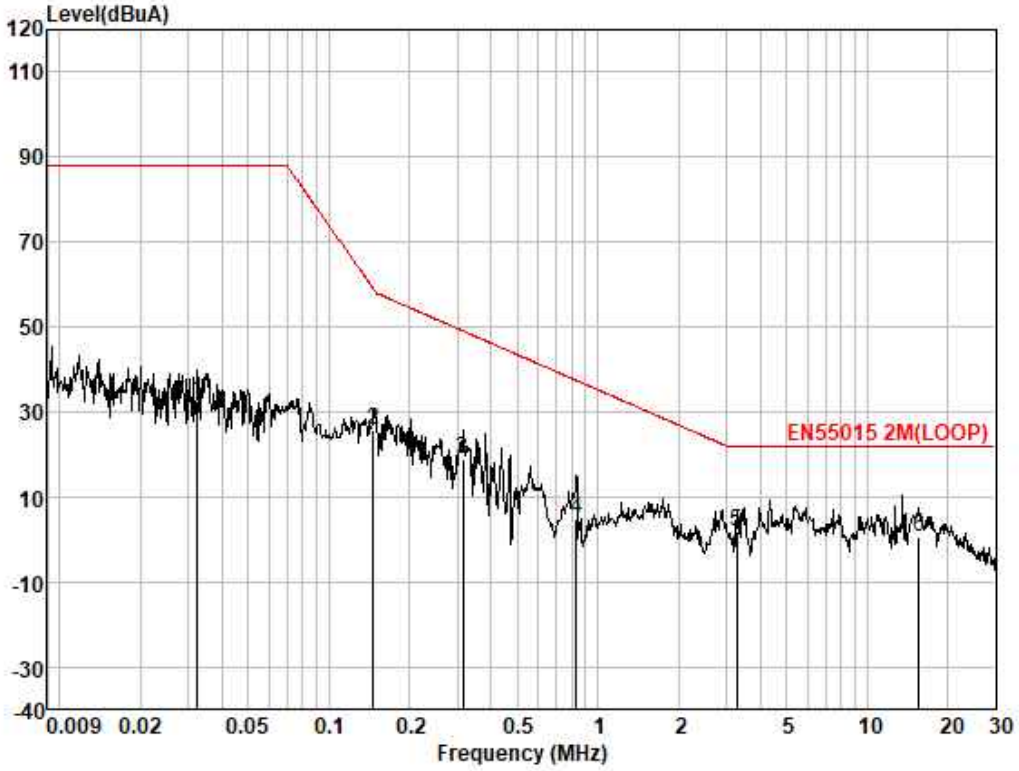
Mode:a; Axial:Z; model: GU10-6-XX/A159/14/XJ



loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.03	32.44	0.00	-0.06	32.38	88.00	-55.62	QP
0.15	25.80	0.10	-0.40	25.50	58.90	-33.40	QP
0.31	18.79	0.10	-0.05	18.84	49.11	-30.27	QP
0.83	4.93	0.10	-0.19	4.84	37.42	-32.58	QP
3.28	1.26	0.32	0.36	1.94	22.00	-20.06	QP
15.55	-1.93	0.75	1.63	0.45	22.00	-21.55	QP

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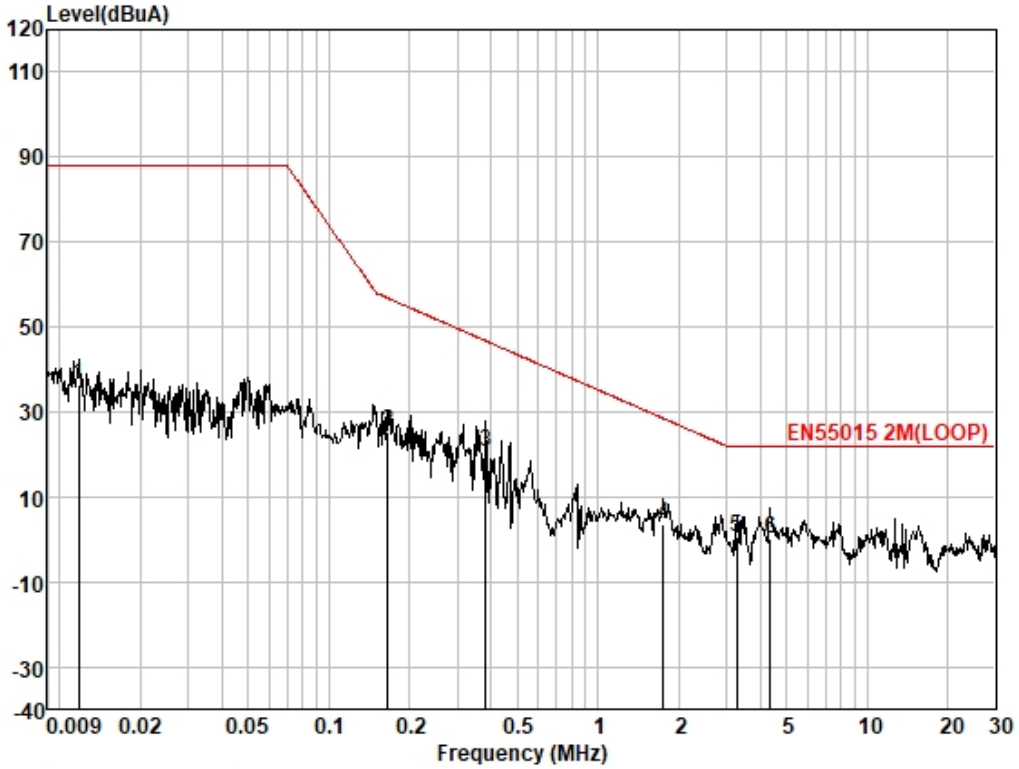

loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	36.38	0.00	-0.07	36.31	88.00	-51.69	QP
0.17	25.29	0.10	-0.29	25.10	56.81	-31.71	QP
0.38	20.69	0.10	-0.01	20.78	46.77	-25.99	QP
1.75	3.11	0.19	0.17	3.47	28.45	-24.98	QP
3.28	-0.18	0.32	0.36	0.50	22.00	-21.50	QP
4.35	-0.61	0.40	0.41	0.20	22.00	-21.80	QP

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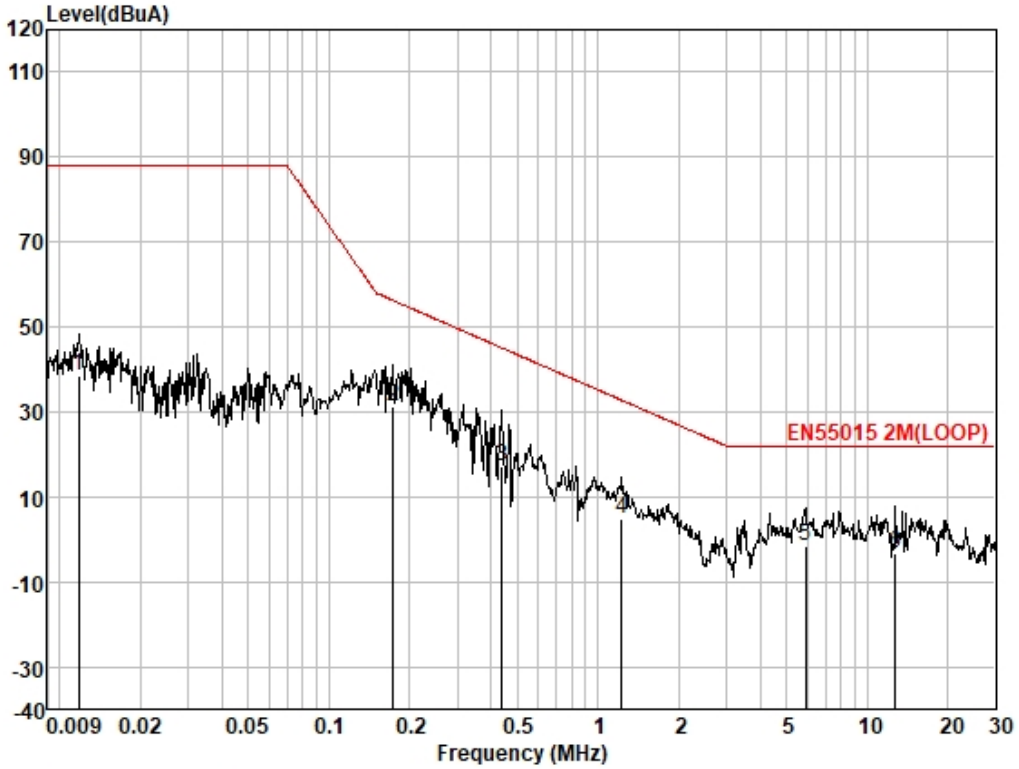

loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	38.38	0.00	-0.07	38.31	88.00	-49.69	QP
0.17	31.43	0.10	-0.26	31.27	56.23	-24.96	QP
0.44	17.23	0.10	-0.05	17.28	45.12	-27.84	QP
1.23	4.63	0.12	-0.04	4.71	32.74	-28.03	QP
5.92	-2.53	0.49	0.50	-1.54	22.00	-23.54	QP
12.70	-5.16	0.67	1.14	-3.35	22.00	-25.35	QP

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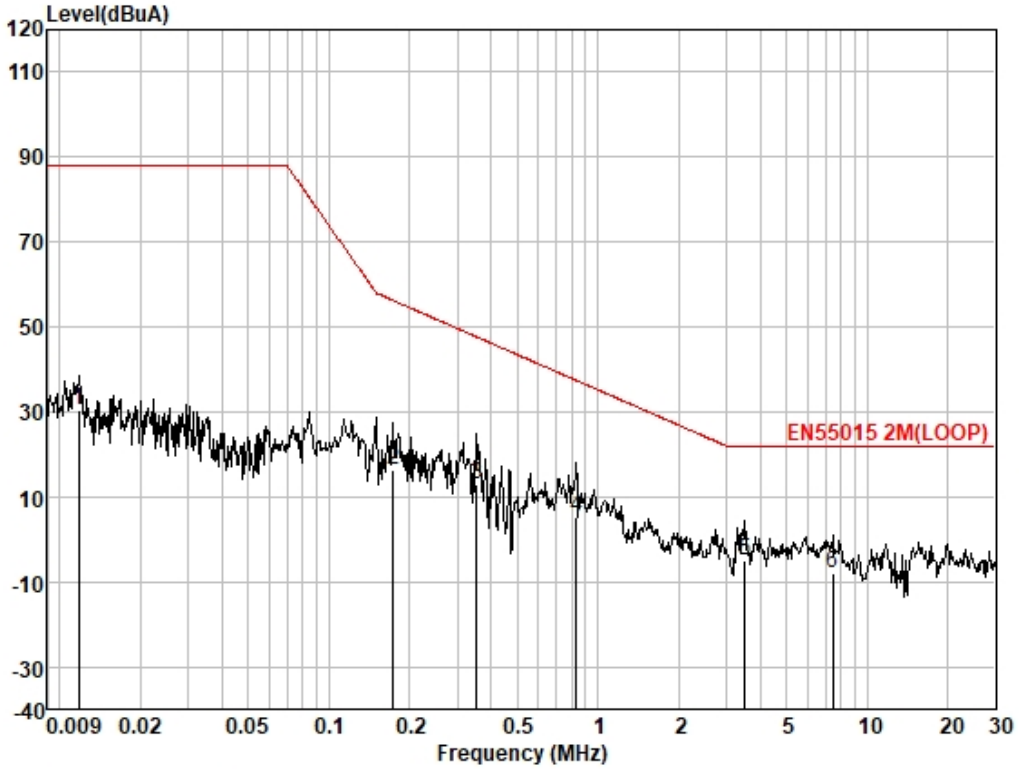

loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	30.38	0.00	-0.07	30.31	88.00	-57.69	QP
0.17	16.43	0.10	-0.26	16.27	56.23	-39.96	QP
0.35	12.67	0.10	-0.02	12.75	47.65	-34.90	QP
0.83	5.28	0.10	-0.19	5.19	37.42	-32.23	QP
3.52	-5.58	0.36	0.38	-4.84	22.00	-26.84	QP
7.43	-9.04	0.50	0.66	-7.88	22.00	-29.88	QP

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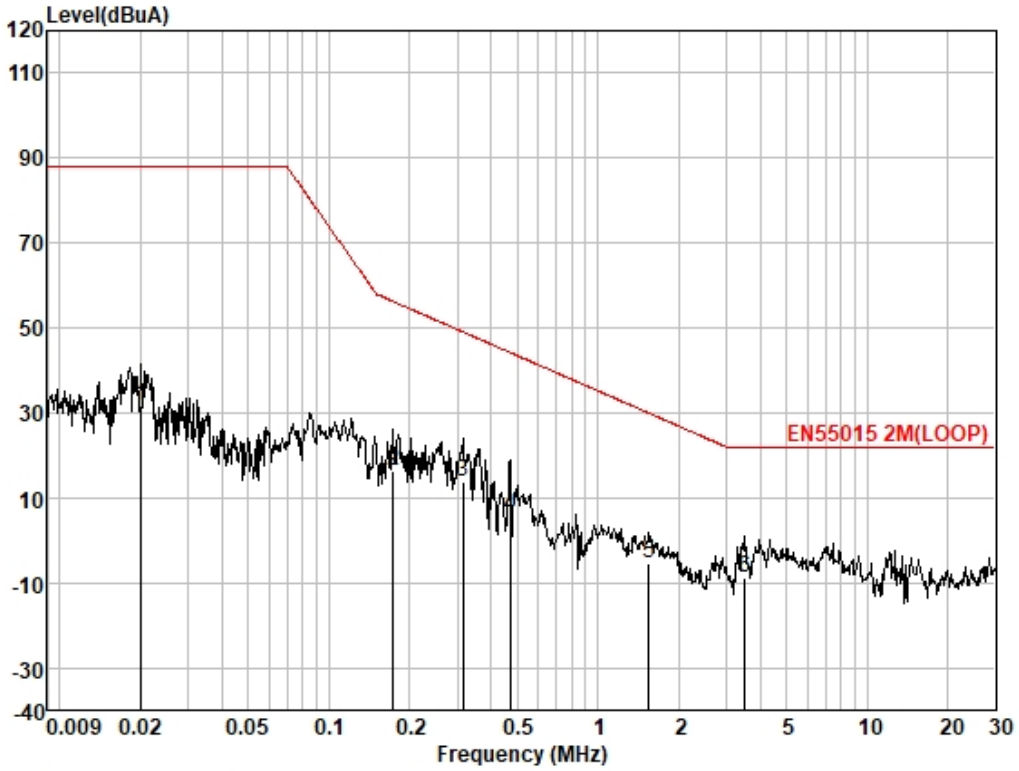

loop : Z
Test Mode:
Model :

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.02	31.49	0.00	0.10	31.59	88.00	-56.41	QP
0.17	16.43	0.10	-0.26	16.27	56.23	-39.96	QP
0.31	13.78	0.10	-0.05	13.83	49.11	-35.28	QP
0.47	5.80	0.10	-0.10	5.80	44.24	-38.44	QP
1.54	-5.55	0.17	0.11	-5.27	30.01	-35.28	QP
3.52	-9.58	0.36	0.38	-8.84	22.00	-30.84	QP

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6.4 Harmonic Current Emission

Test Requirement: EN 61000-3-2:2014

Test Method: See remark below

Remark:

No limit applies for all LED lighting equipment with active input power ≤25 W except Discharge lighting equipment (refer to 7.3 b）)

Therefore, it was deemed to conform to the requirements of this standard without further testing.

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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013+A1:2019

Test Method: EN 61000-3-3:2013 +A1:2019

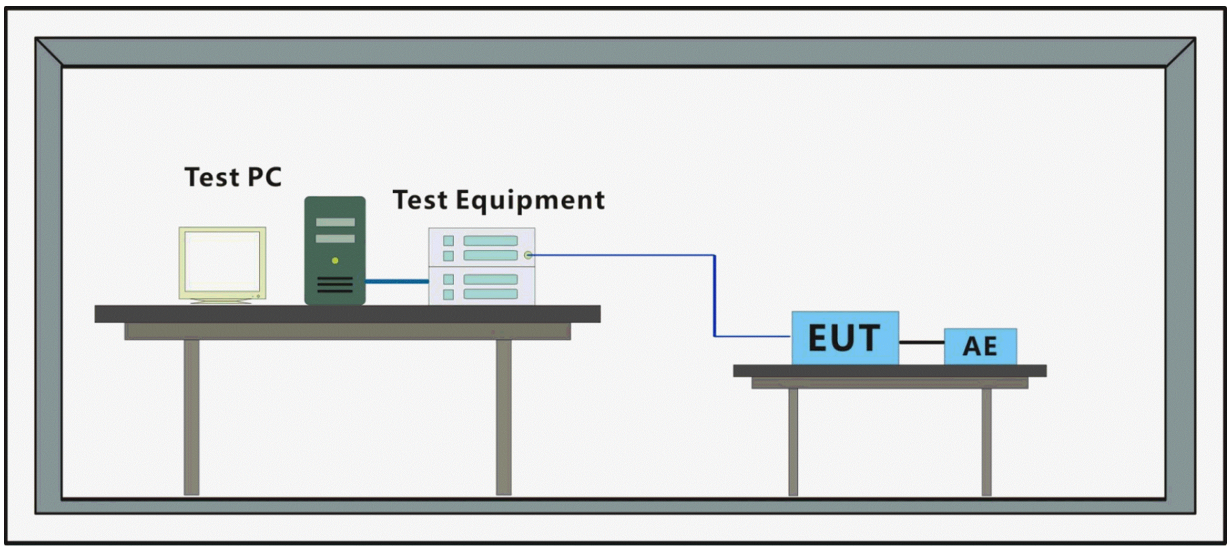
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

6.5.2 Test Setup Diagram



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6.5.3 Measurement Data

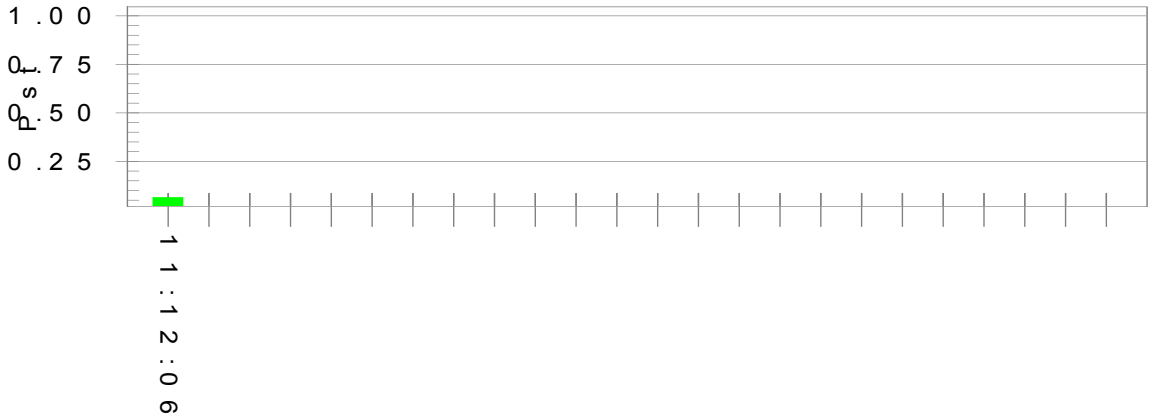
Mode:a; model: A60-14-XX/A12J/14/M

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**230.00**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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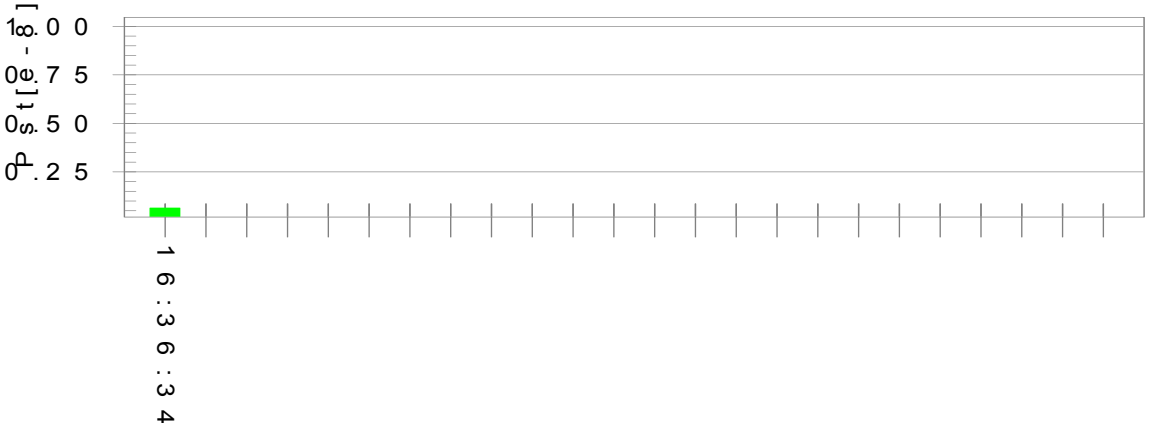
Mode:a; model: MR16-6-XX/E165/14/2J

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

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**229.87**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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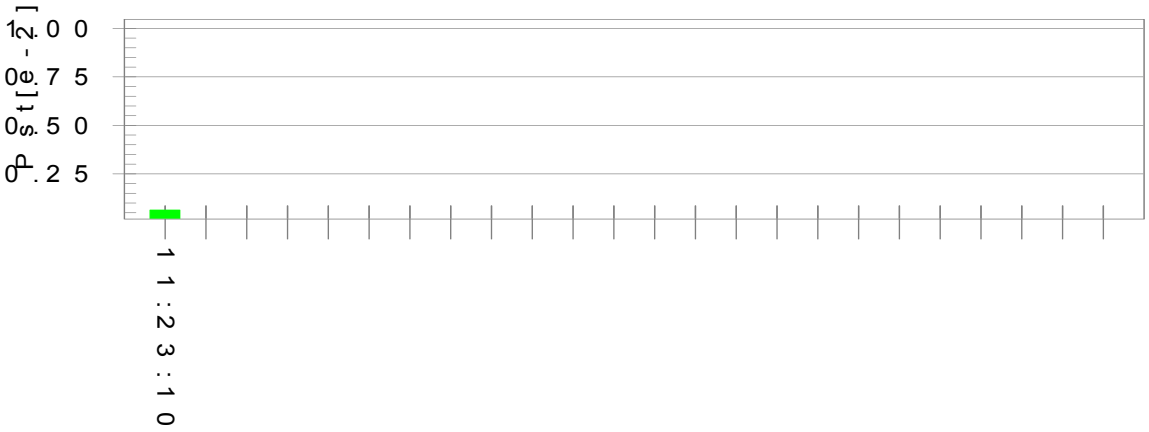
Mode:a; model: A60-6-XX/A13J/14/5/M

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**229.98**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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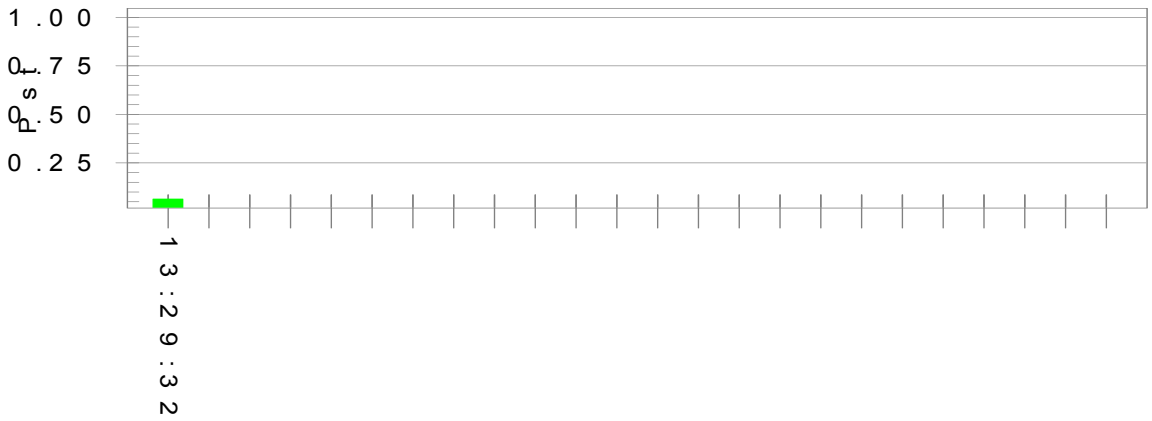
Mode:a; model: A60-9-XX/A12J/14/5

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**230.02**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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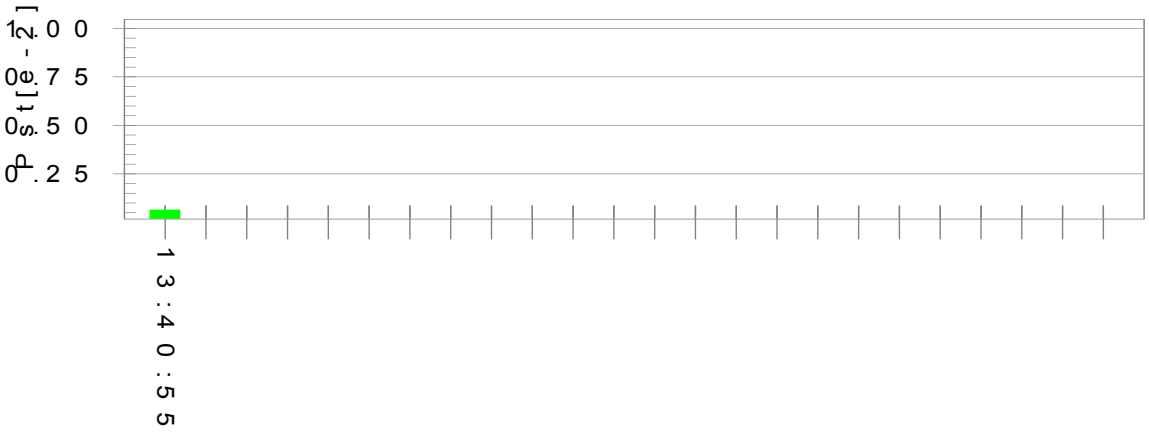
Mode:a; model: G45-5.5-XX/A12F/11/3

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**230.11**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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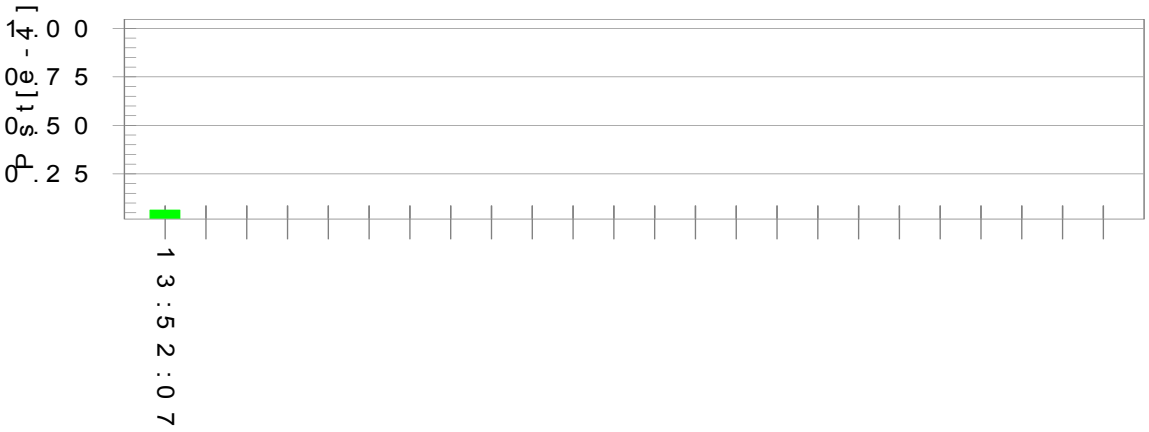
Mode:a; model: GU10-6-XX/A159/14/XJ

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**230.01**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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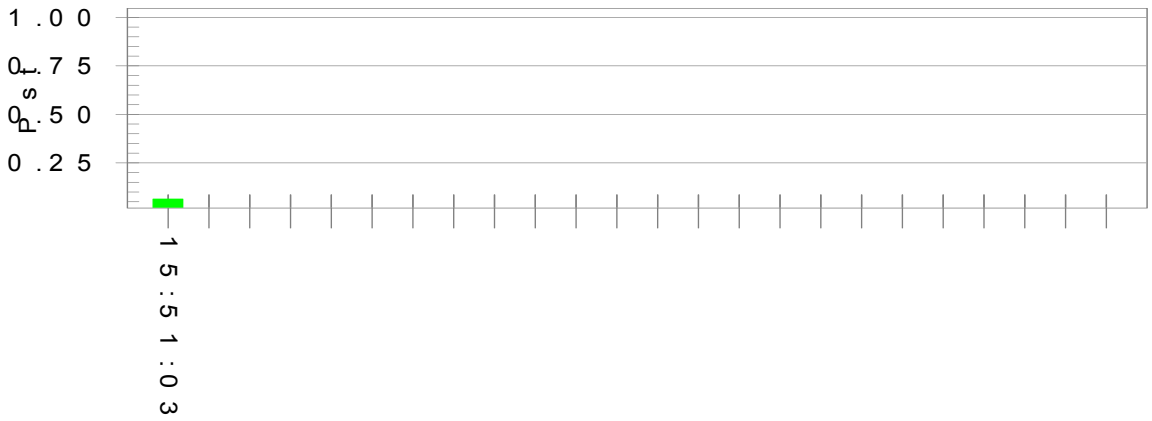
Mode:a; model: C37-5.5-XX/A11F/11/3

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**229.90**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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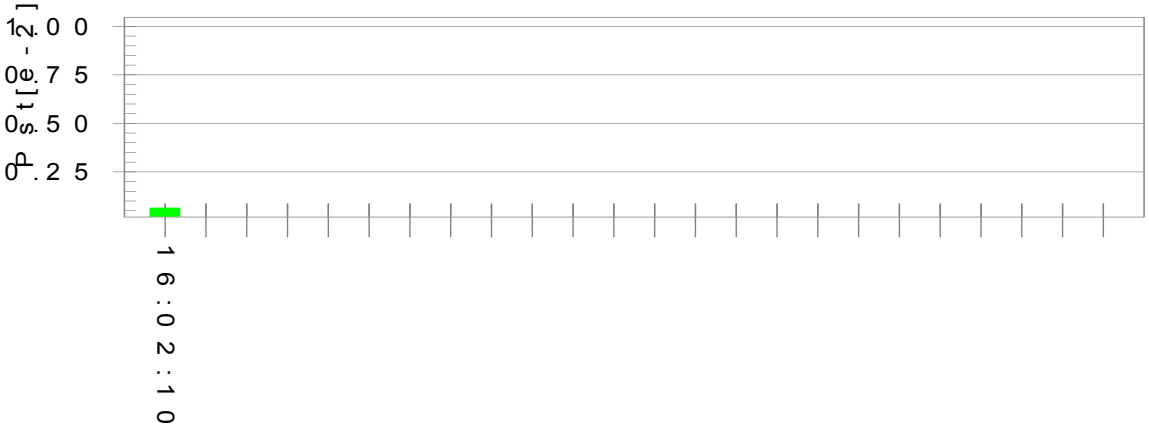
Mode:a; model: A60-6.5-27/G138/5Y2

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**230.01**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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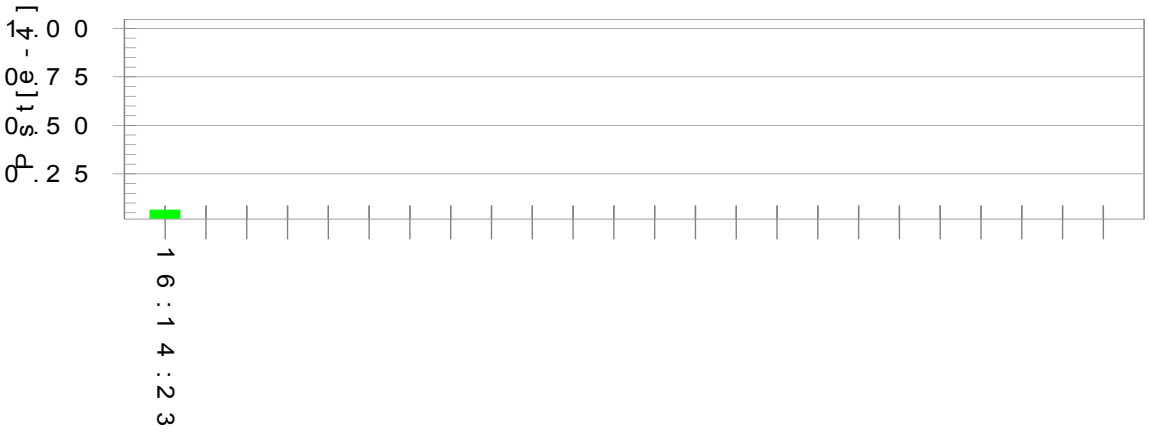
Mode:a; model: A60-6.5-27/G138/5Y2

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**229.97**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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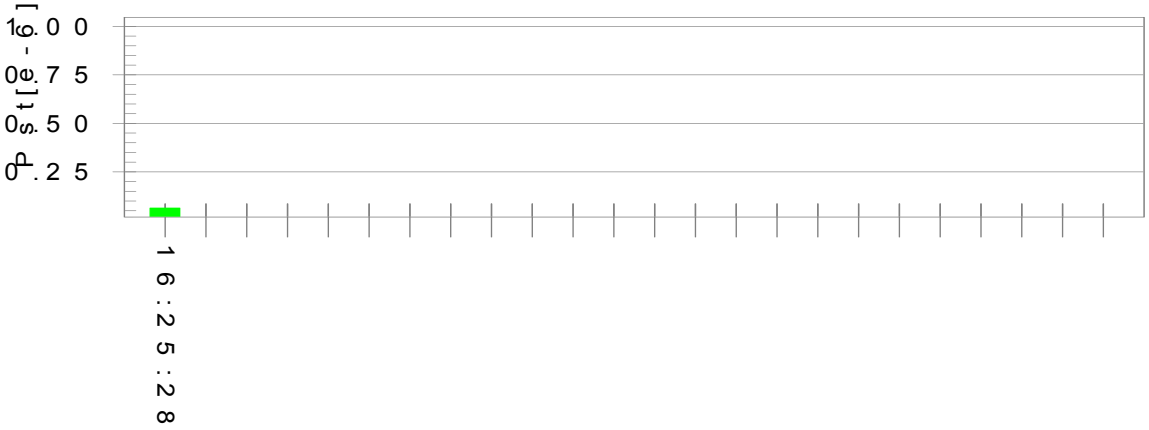
Mode:a; model: C35-4-27/G118/5Y2

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

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

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**229.95**			
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):	**0.064**	**Test limit:**	**1.000**	**Pass**

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7 Immunity Test Results

7.1 Performance Criteria Description in EN 61547:2009

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.

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.

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.

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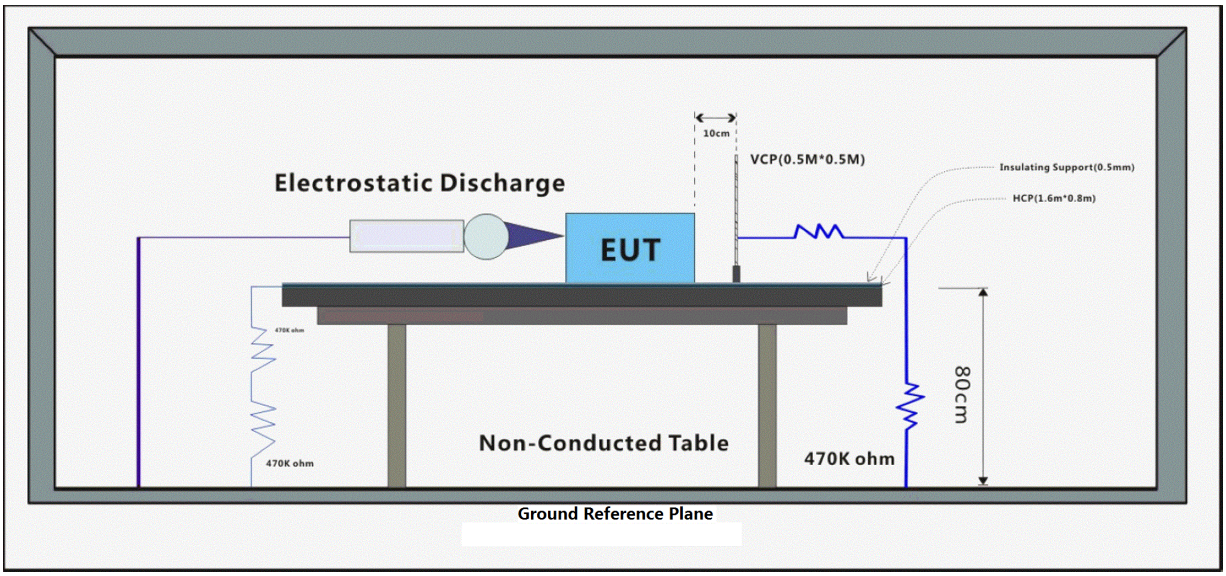
7.2 Electrostatic Discharge

Test Requirement: EN 61547:2009
Test Method: EN 61000-4-2:2009
Performance Criterion: B
Discharge Impedance: 330Ω/150pF
Number of Discharge: Minimum 10 times at each test point
Discharge Mode: Single Discharge
Discharge Period: 1 second minimum

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 21 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar
Test Mode: a: Test the EUT in LED lighting mode.

7.2.2 Test Setup Diagram



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7.2.3 Test Results

Observations:

Test Point:

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

For models: A60-14-XX/A12J/14/M, A60-6-XX/A13J/14/5/M, A60-9-XX/A12J/14/5, G45-5.5-XX/A12F/11/3, GU10-6-XX/A159/14/XJ, C37-5.5-XX/A11F/11/3, A60-6.5-27/G138/5Y2, A60-6.5-27/G138/5Y2, C35-4-27/G118/5Y2, MR16-6-XX/E165/14/2J

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

Results:

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

N/A:not applicable.

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7.3 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN 61547:2009

Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010

Performance Criterion: A

Frequency Range: 80MHz to 1GHz

Antenna Polarisation: Vertical and Horizontal

Modulation 1kHz,80% Amp. Mod,1% increment

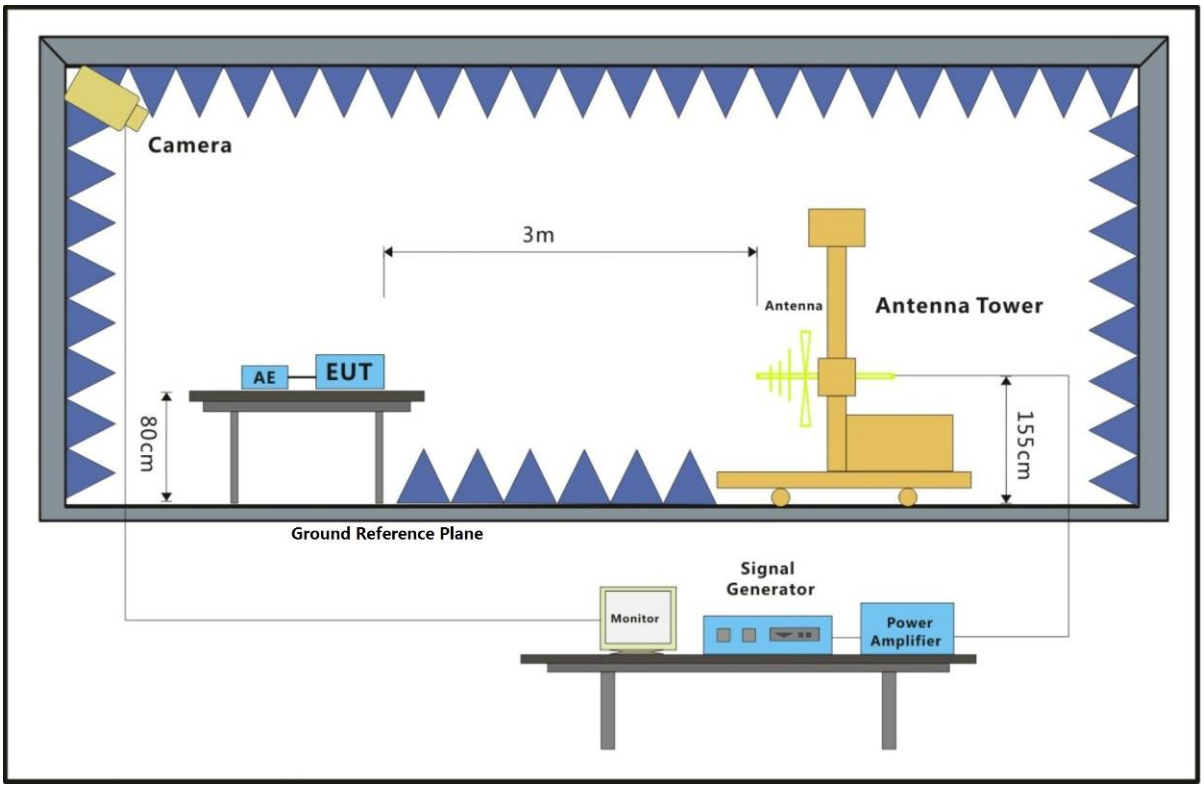
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

7.3.2 Test Setup Diagram



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7.3.3 Test Results

For models: A60-14-XX/A12J/14/M, A60-6-XX/A13J/14/5/M, A60-9-XX/A12J/14/5, G45-5.5-XX/A12F/11/3, GU10-6-XX/A159/14/XJ, C37-5.5-XX/A11F/11/3, A60-6.5-27/G138/5Y2, A60-6.5-27/G138/5Y2, C35-4-27/G118/5Y2, MR16-6-XX/E165/14/2J

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

Results:

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

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7.4 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 61547:2009

Test Method: EN 61000-4-4:2012

Performance Criterion: B

Repetition Frequency: 5kHz

Burst Period: 300ms

Test Duration: 2 minute per level & polarity

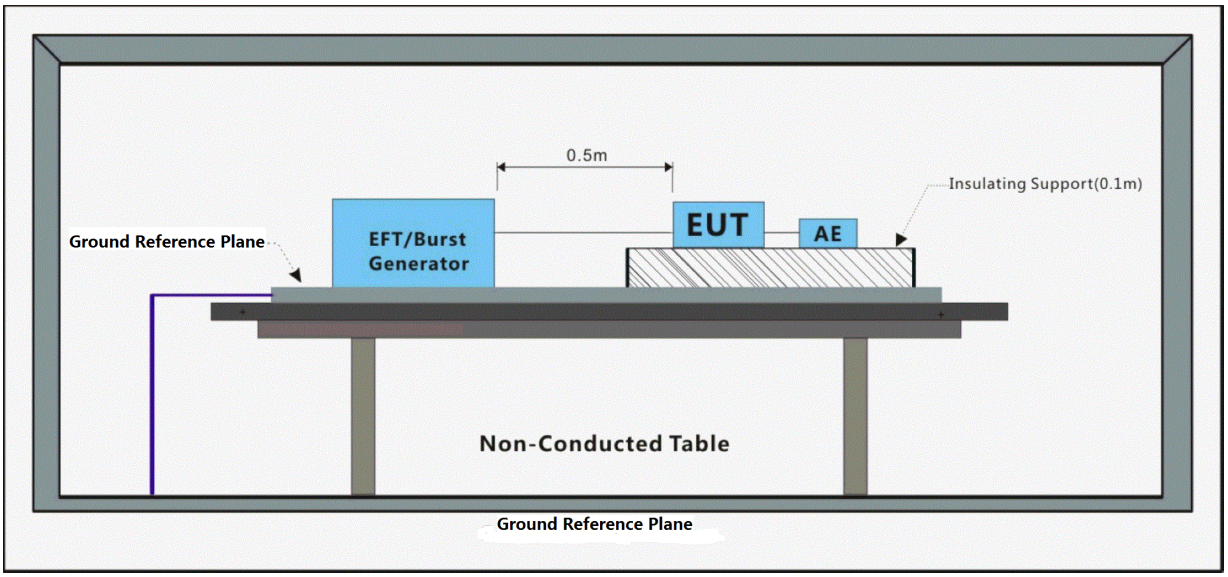
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 61.1 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

7.4.2 Test Setup Diagram



7.4.3 Test Results

For models: A60-14-XX/A12J/14/M, A60-6-XX/A13J/14/5/M, A60-9-XX/A12J/14/5, G45-5.5-XX/A12F/11/3, GU10-6-XX/A159/14/XJ, C37-5.5-XX/A11F/11/3, A60-6.5-27/G138/5Y2, A60-6.5-27/G138/5Y2, C35-4-27/G118/5Y2, MR16-6-XX/E165/14/2J

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

Results:

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

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7.5 Surge at Power Port

Test Requirement: EN 61547:2009

Test Method: EN 61000-4-5:2014

Performance Criterion: C

No. of surges: 5 positive at 90°, 5 negative at 270°.

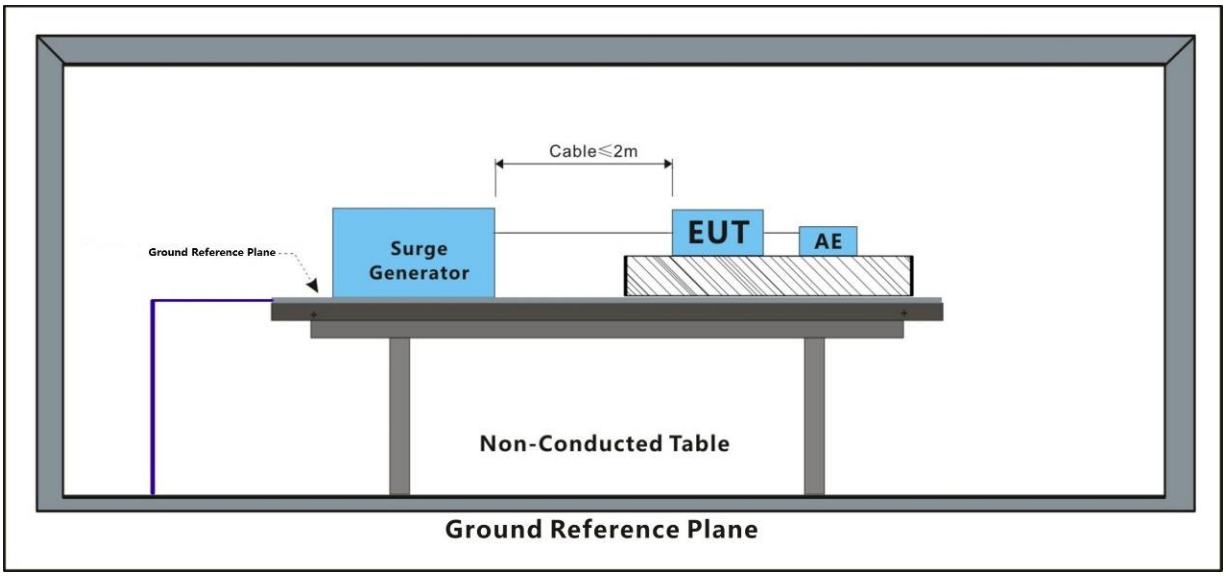
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 61.1 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

7.5.2 Test Setup Diagram



7.5.3 Test Results

For models: A60-14-XX/A12J/14/M, A60-6-XX/A13J/14/5/M, A60-9-XX/A12J/14/5, G45-5.5-XX/A12F/11/3, GU10-6-XX/A159/14/XJ, C37-5.5-XX/A11F/11/3, A60-6.5-27/G138/5Y2, A60-6.5-27/G138/5Y2, C35-4-27/G118/5Y2, MR16-6-XX/E165/14/2J

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	0.5	+	90°	A
L-N	0.5	-	270°	A

Results:

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

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7.6 Conducted Immunity at Power Port (150kHz-80MHz)

Test Requirement: EN 61547:2009

Test Method: EN 61000-4-6:2014

Performance Criterion: A

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

Step Size 1%

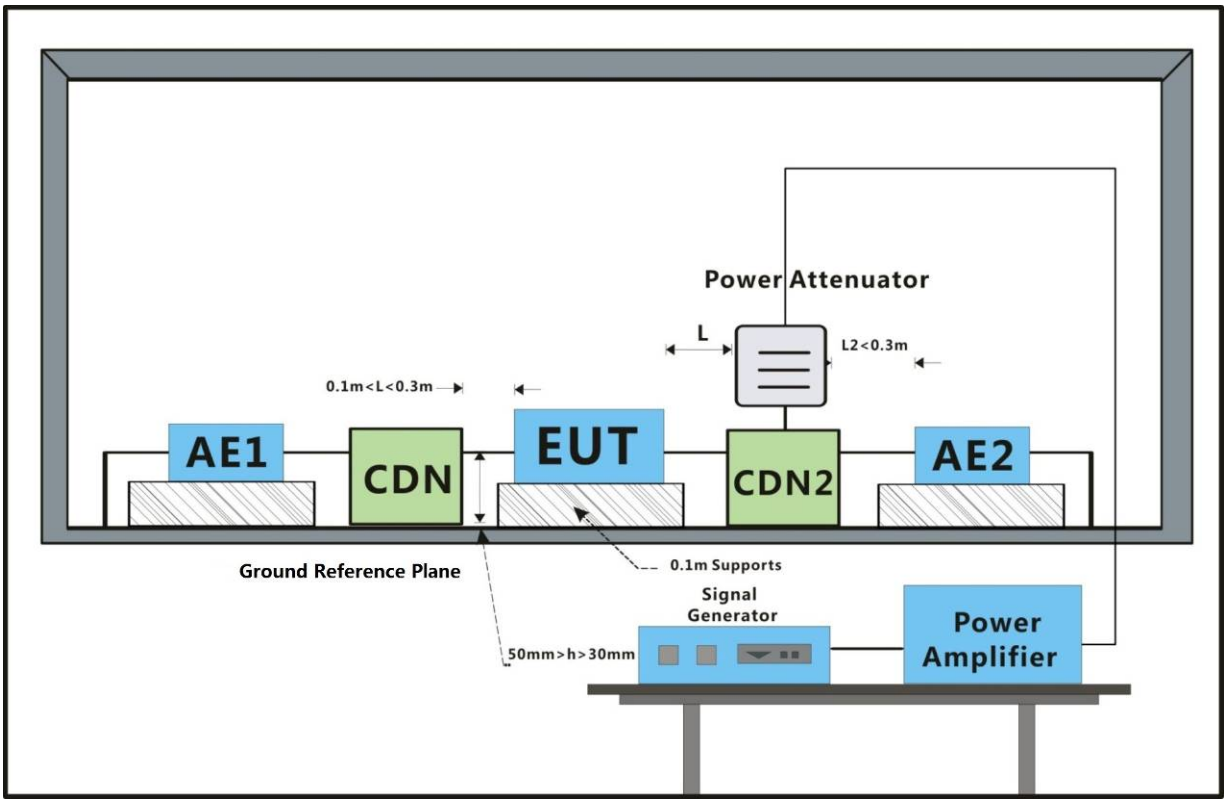
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 61.1 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

7.6.2 Test Setup Diagram



7.6.3 Test Results

For models: A60-14-XX/A12J/14/M, A60-6-XX/A13J/14/5/M, A60-9-XX/A12J/14/5, G45-5.5-XX/A12F/11/3, GU10-6-XX/A159/14/XJ, C37-5.5-XX/A11F/11/3, A60-6.5-27/G138/5Y2, A60-6.5-27/G138/5Y2, C35-4-27/G118/5Y2, MR16-6-XX/E165/14/2J

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

Results:

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

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7.7 Voltage Dips and Interruptions

Test Requirement: EN 61547:2009

Test Method: EN 61000-4-11:2004

Performance Criterion: 0% of UT (Supply Voltage) for 0.5 Cycle:B;
70 % of UT for 10 Cycles:C

No. of Dips / Interruptions: 3 per Level

Time between dropout 10s

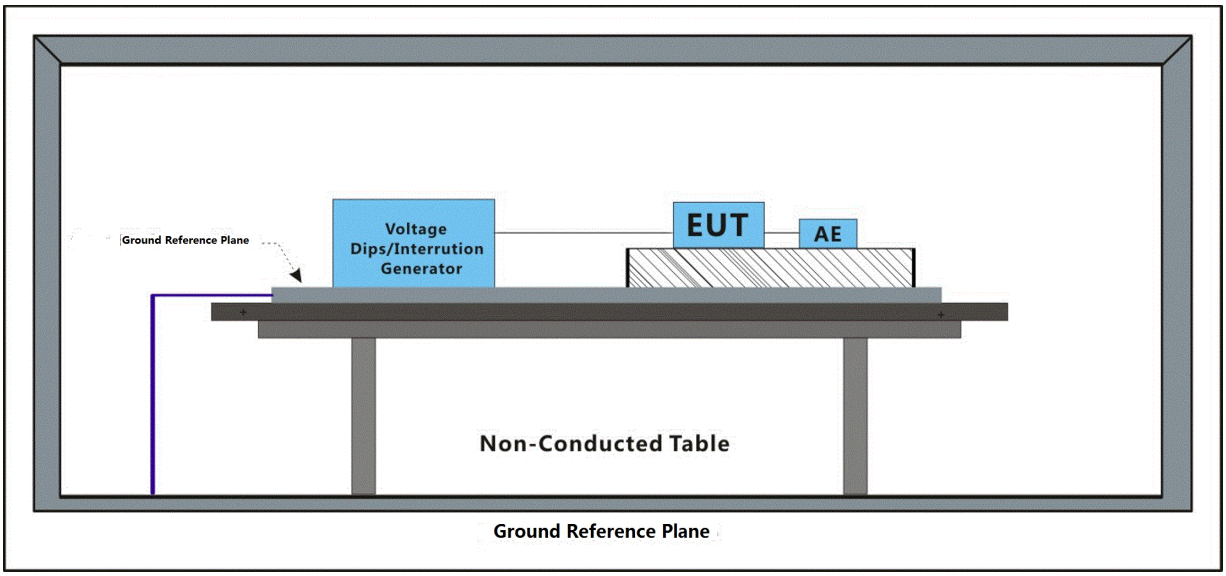
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 61.1 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in LED lighting mode.

7.7.2 Test Setup Diagram



7.7.3 Test Results

For models: A60-14-XX/A12J/14/M, A60-6-XX/A13J/14/5/M, A60-9-XX/A12J/14/5, G45-5.5-XX/A12F/11/3, GU10-6-XX/A159/14/XJ, C37-5.5-XX/A11F/11/3, A60-6.5-27/G138/5Y2, A60-6.5-27/G138/5Y2, C35-4-27/G118/5Y2, MR16-6-XX/E165/14/2J

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

Results:

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

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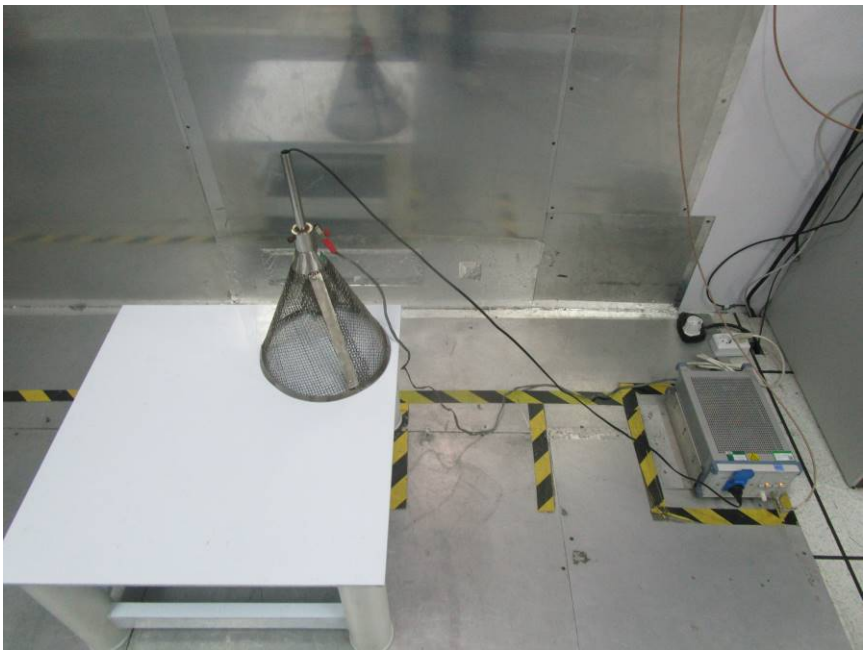
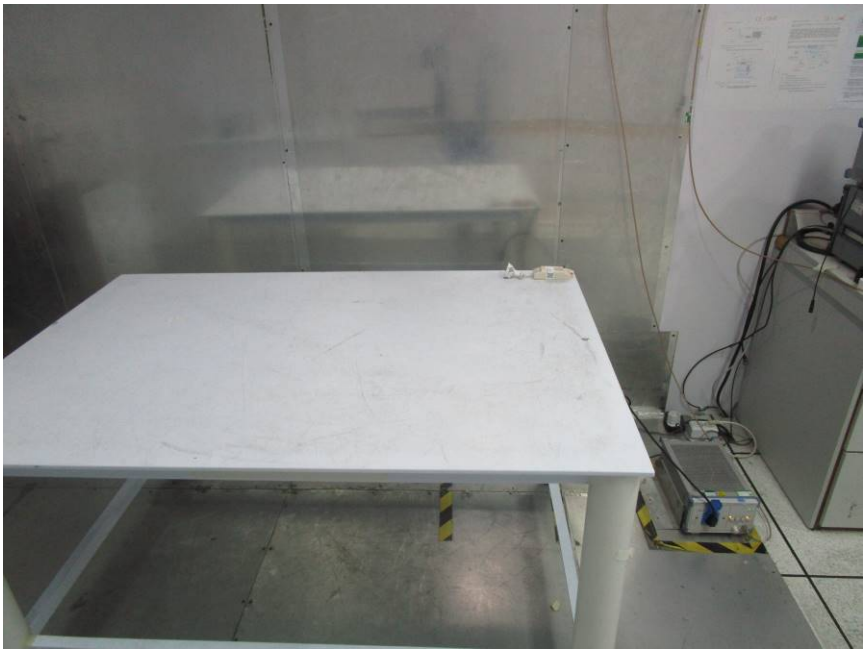
8 Photographs

8.1 Conducted Emissions at Mains Terminals (9kHz-30MHz) Test Setup

model: A60-14-XX/A12J/14/M



model: MR16-6-XX/E165/14/2J



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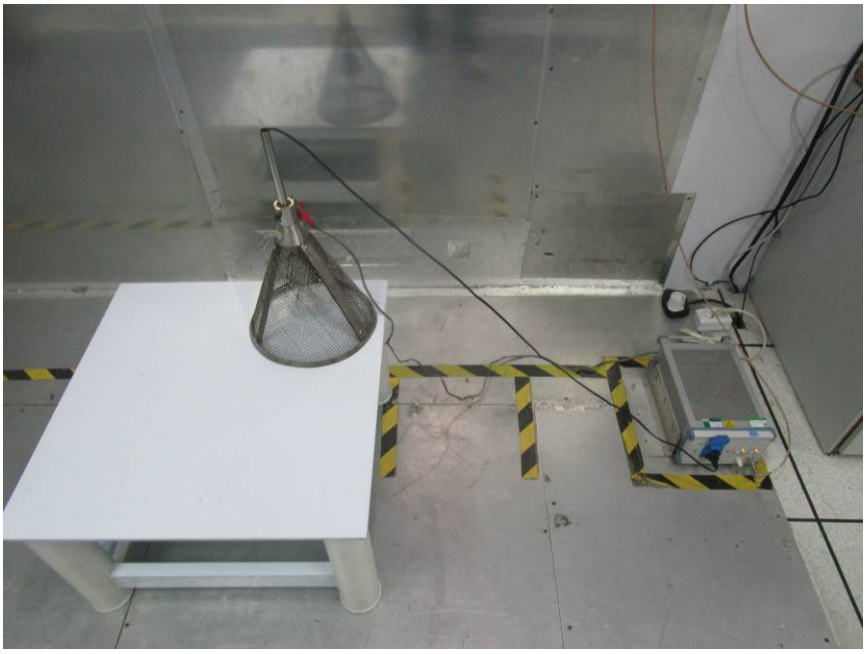
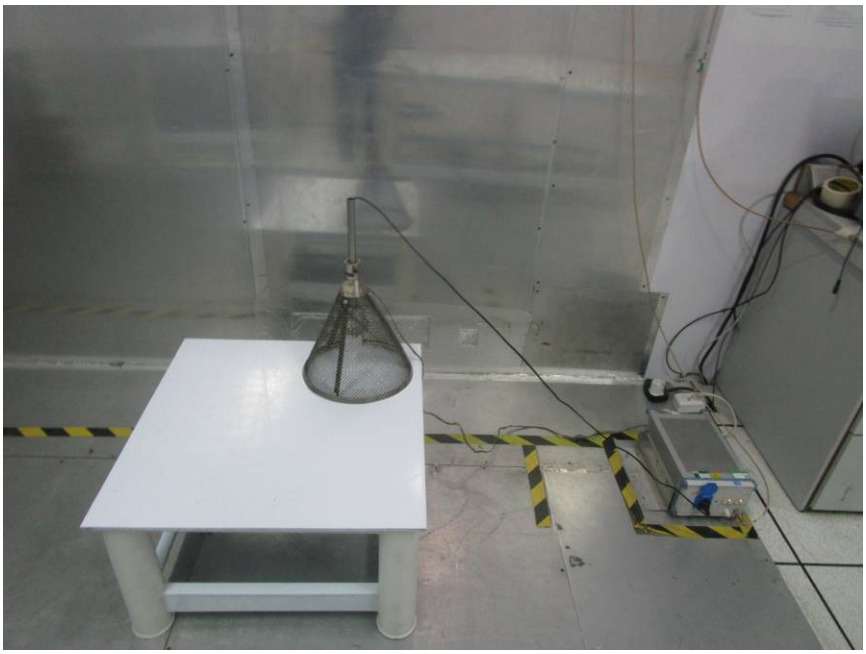
model: A60-6-XX/A13J/14/5/M



model: A60-9-XX/A12J/14/5



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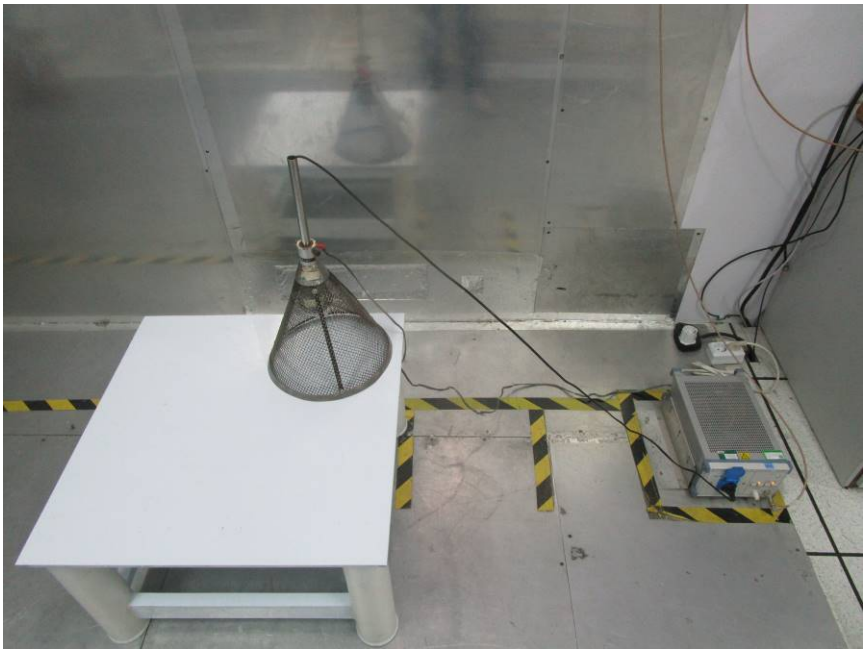
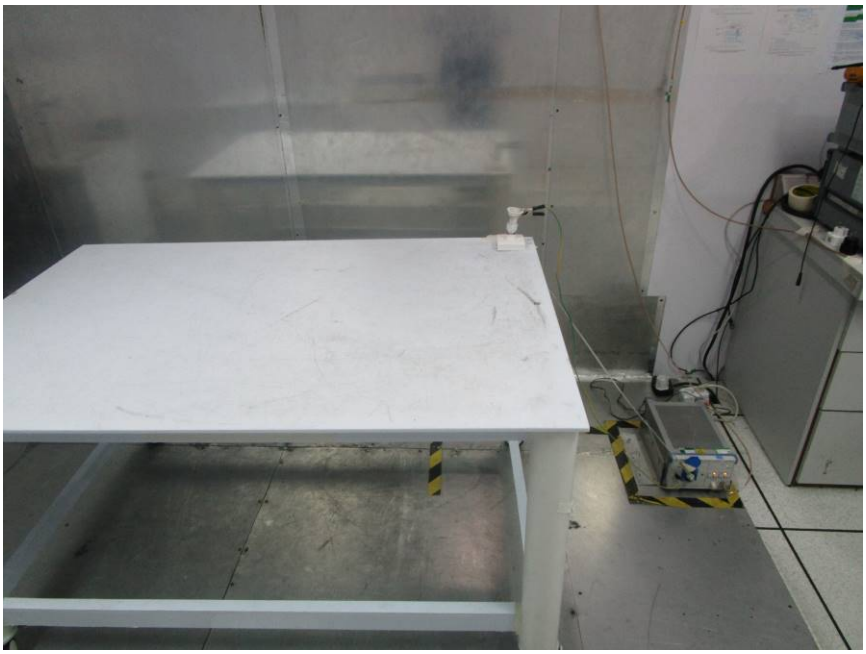
model: G45-5.5-XX/A12F/11/3



model: GU10-6-XX/A159/14/XJ



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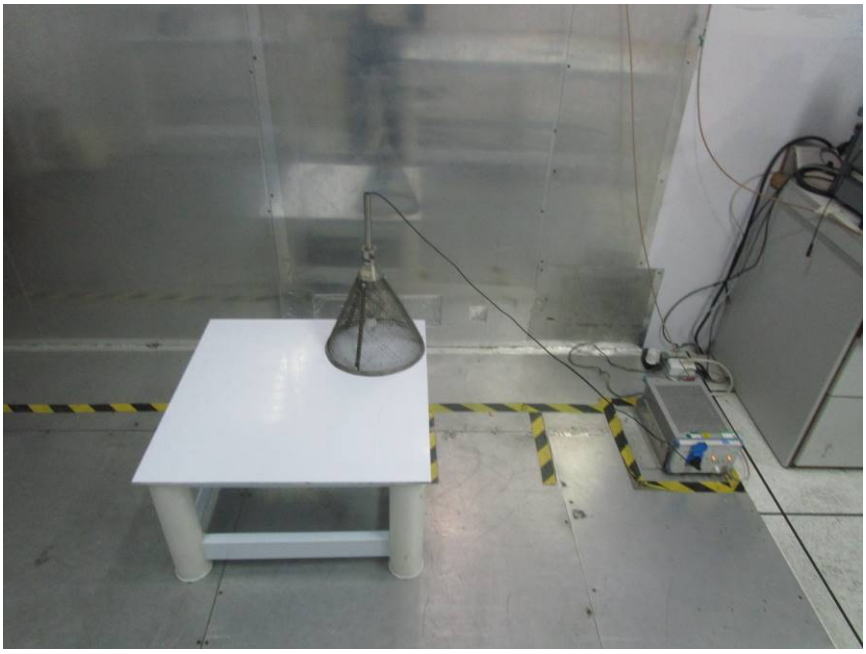
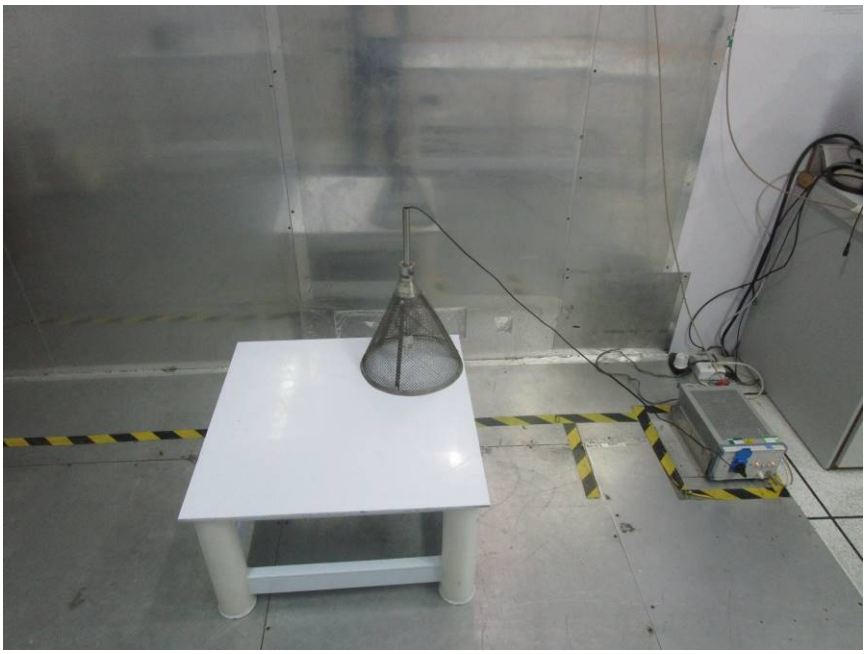
model: C37-5.5-XX/A11F/11/3



model: A60-6.5-27/G138/5Y2



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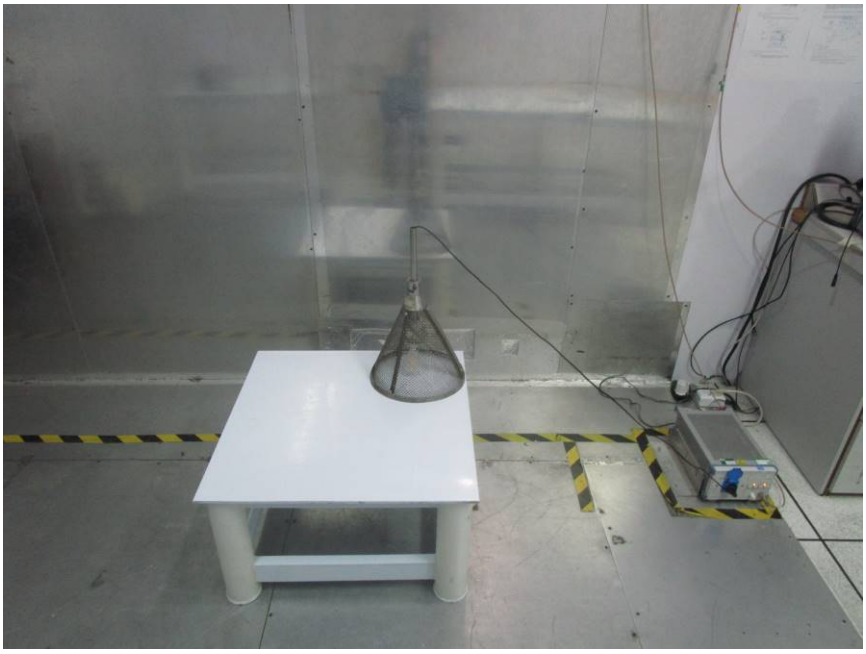
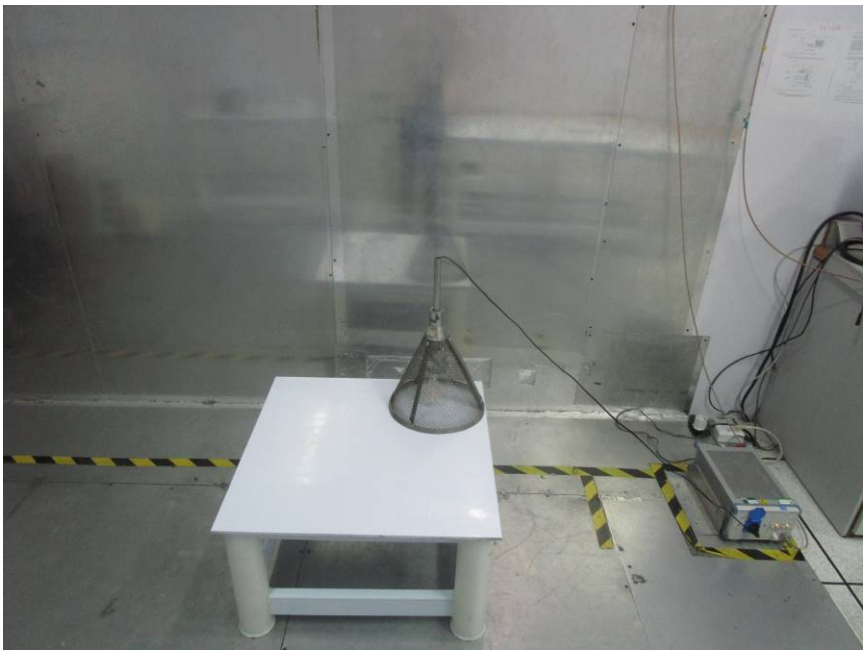
model: A60-6.5-27/G138/5Y2



model: C35-4-27/G118/5Y2



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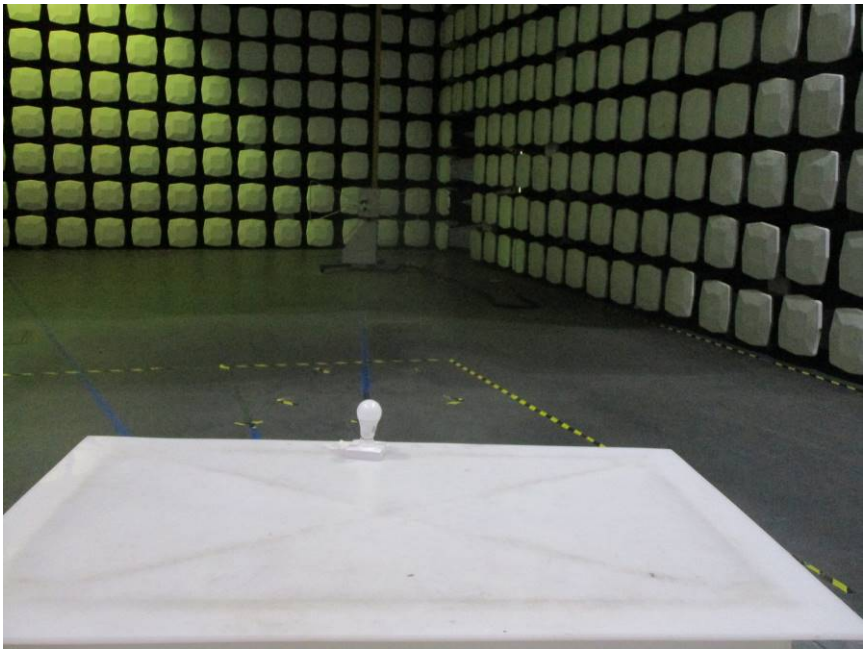
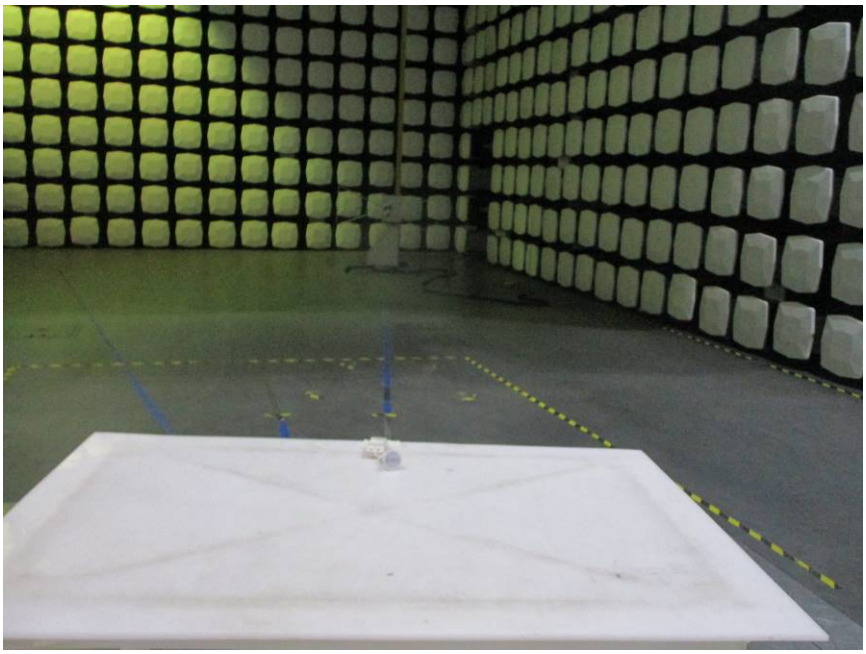
8.2 Radiated Emissions (30MHz-1GHz) Test Setup

model: A60-14-XX/A12J/14/M



model: MR16-6-XX/E165/14/2J



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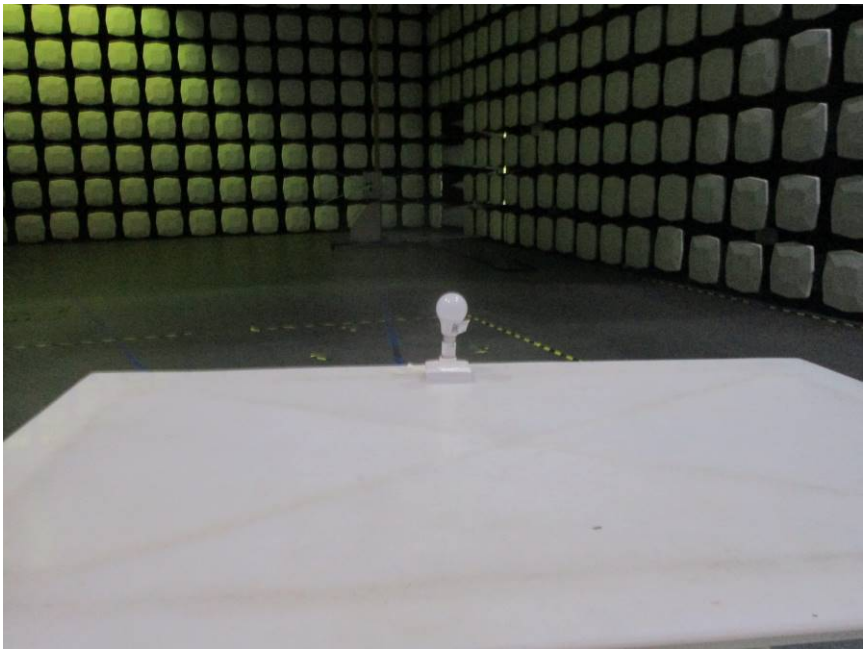
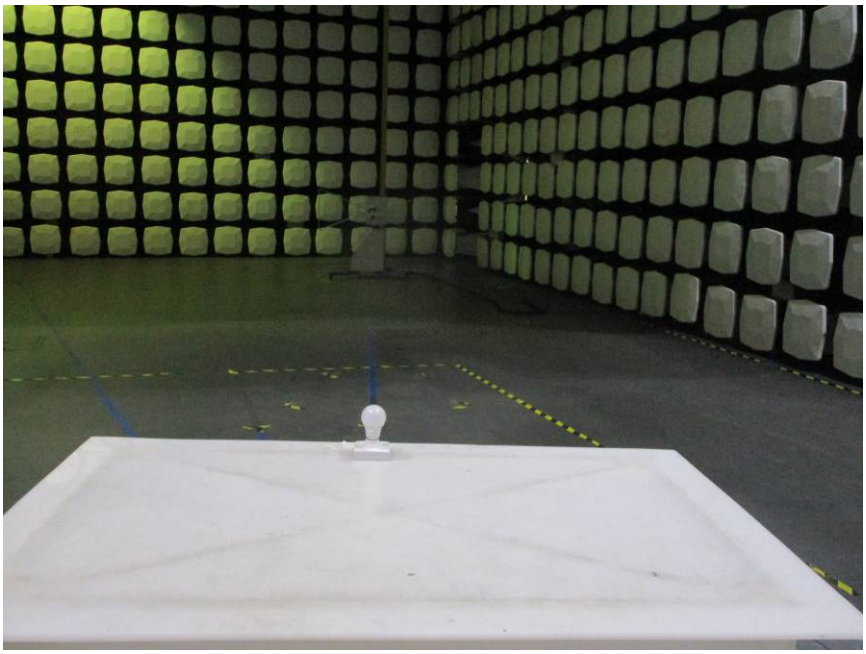
model: A60-6-XX/A13J/14/5/M



model: A60-9-XX/A12J/14/5



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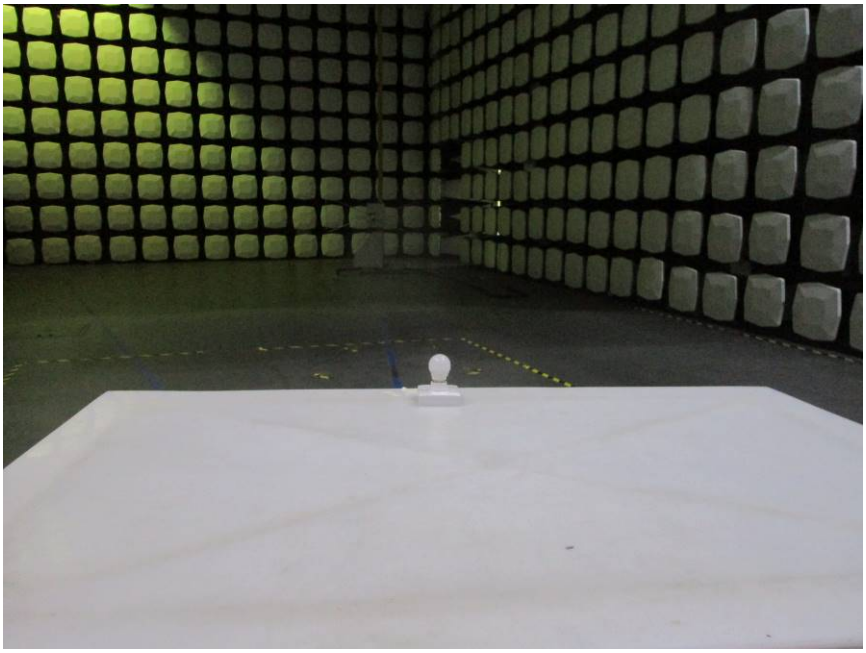
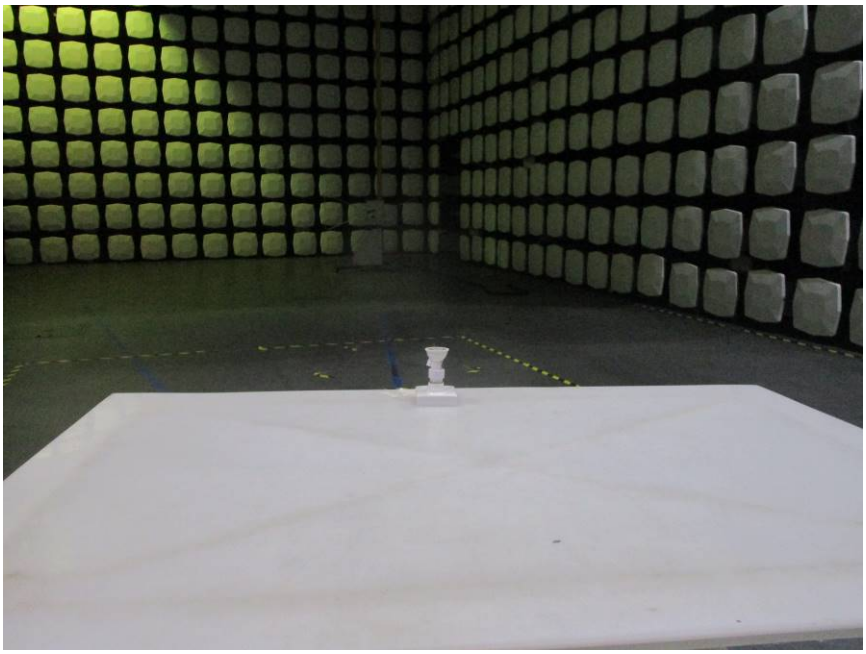
model: G45-5.5-XX/A12F/11/3



model: GU10-6-XX/A159/14/XJ



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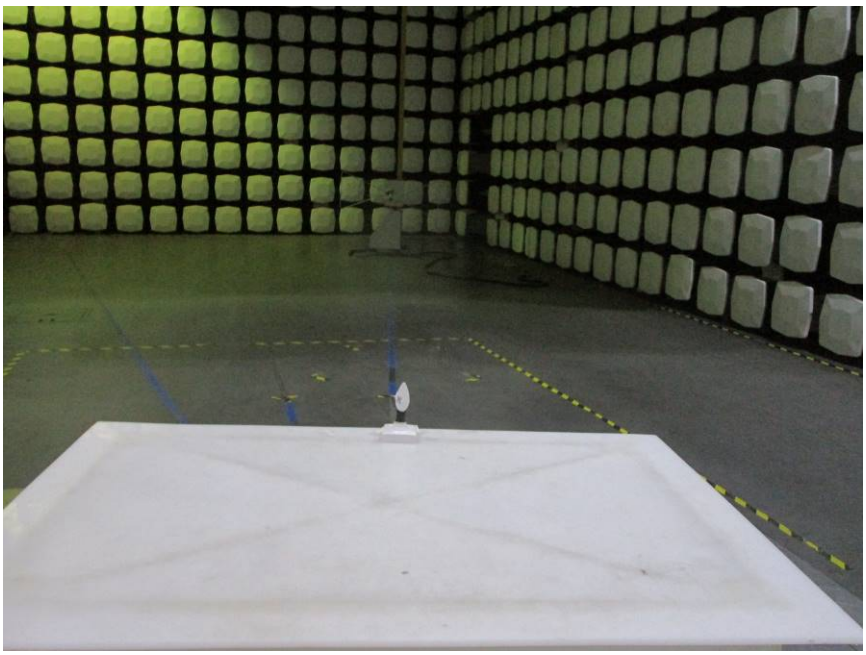
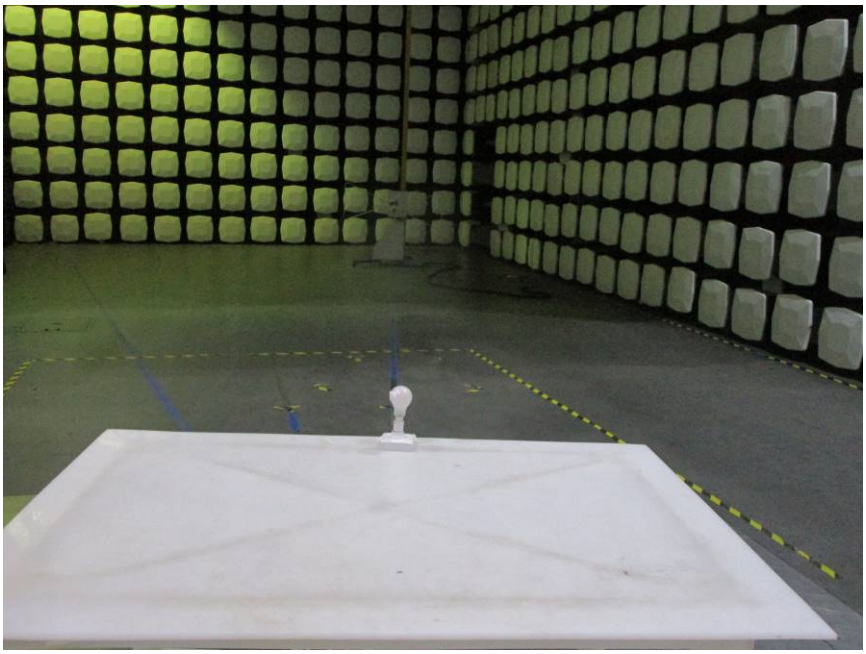
model: C37-5.5-XX/A11F/11/3



model: A60-6.5-27/G138/5Y2



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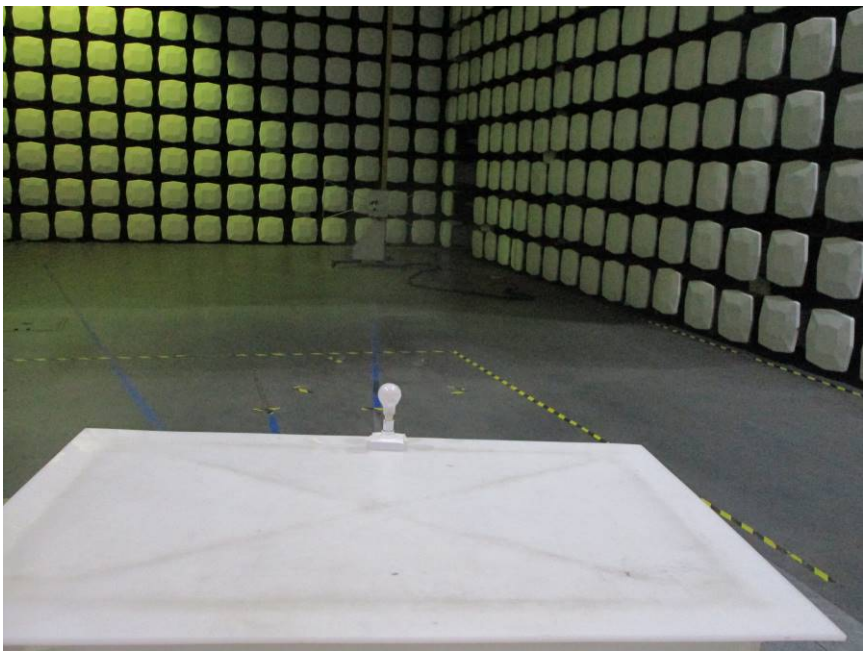
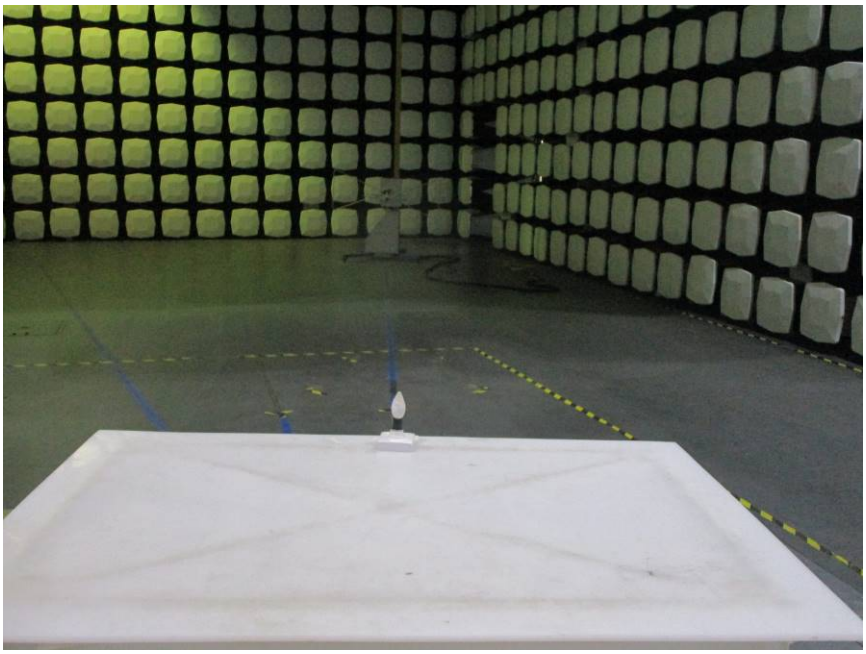
model: A60-6.5-27/G138/5Y2



model: C35-4-27/G118/5Y2



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8.3 Radiated Emissions (Magnetic field Induced Current)(9kHz-30MHz) Test Setup

model: A60-14-XX/A12J/14/M



model: A60-6-XX/A13J/14/5/M



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model: A60-6-XX/A13J/14/5/M



model: A60-9-XX/A12J/14/5



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8.4 Voltage Fluctuations and Flicker Test Setup

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8.5 Electrostatic Discharge Test Setup

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8.6 Radiated Immunity (80MHz-1GHz) Test Setup

model: MR16-6-XX/E165/14/2J



model: C37-5.5-XX/A11F/11/3



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model: A60-6.5-27/G138/5Y2



model: A60-6.5-27/G138/5Y2



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model: C35-4-27/G118/5Y2



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8.7 Electrical Fast Transients/Burst at Power Port Test Setup

model: A60-14-XX/A12J/14/M



model: MR16-6-XX/E165/14/2J



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model: A60-6-XX/A13J/14/5/M



model: A60-9-XX/A12J/14/5



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model: G45-5.5-XX/A12F/11/3



model: GU10-6-XX/A159/14/XJ



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model: C37-5.5-XX/A11F/11/3



model: A60-6.5-27/G138/5Y2



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model: A60-6.5-27/G138/5Y2



model: C35-4-27/G118/5Y2



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8.8 Surge at Power Port Test Setup

model: A60-14-XX/A12J/14/M



model: MR16-6-XX/E165/14/2J



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model: A60-6-XX/A13J/14/5/M



model: A60-9-XX/A12J/14/5



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model: G45-5.5-XX/A12F/11/3



model: GU10-6-XX/A159/14/XJ



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model: C37-5.5-XX/A11F/11/3



model: A60-6.5-27/G138/5Y2



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model: A60-6.5-27/G138/5Y2



model: C35-4-27/G118/5Y2



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8.9 Conducted Immunity at Power Port (150kHz-80MHz) Test Setup

model: A60-14-XX/A12J/14/M



model: MR16-6-XX/E165/14/2J



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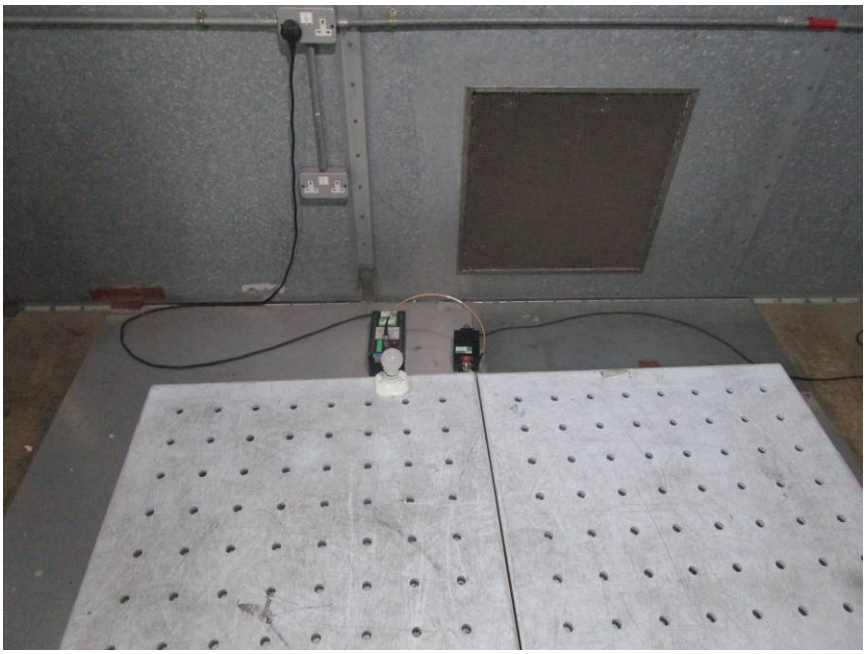
model: A60-6-XX/A13J/14/5/M



model: A60-9-XX/A12J/14/5



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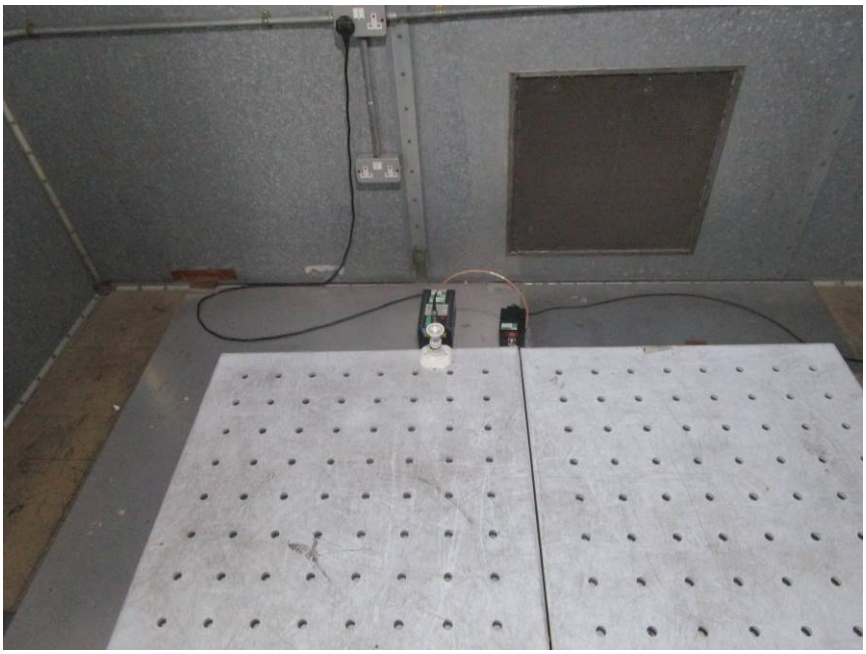
model: G45-5.5-XX/A12F/11/3



model: GU10-6-XX/A159/14/XJ



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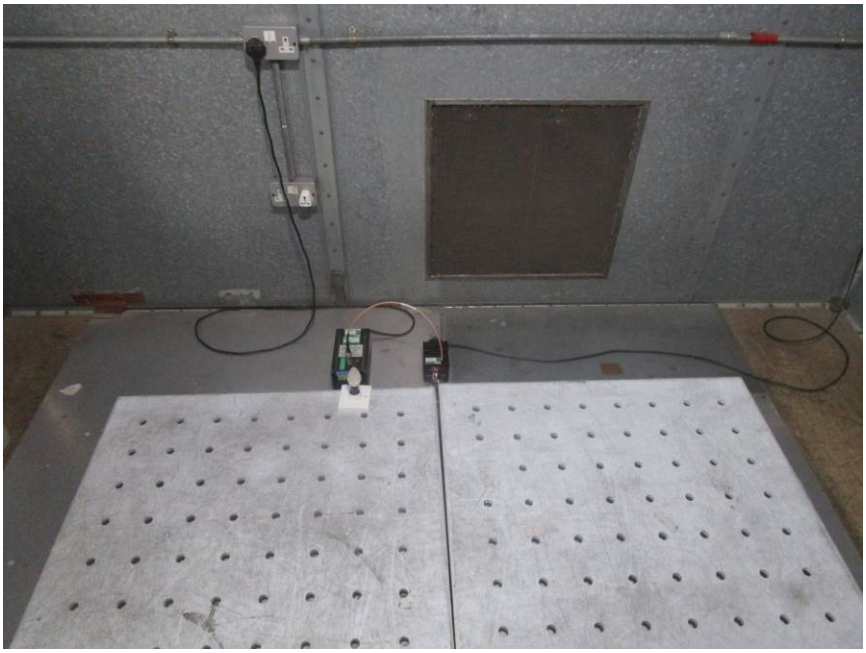
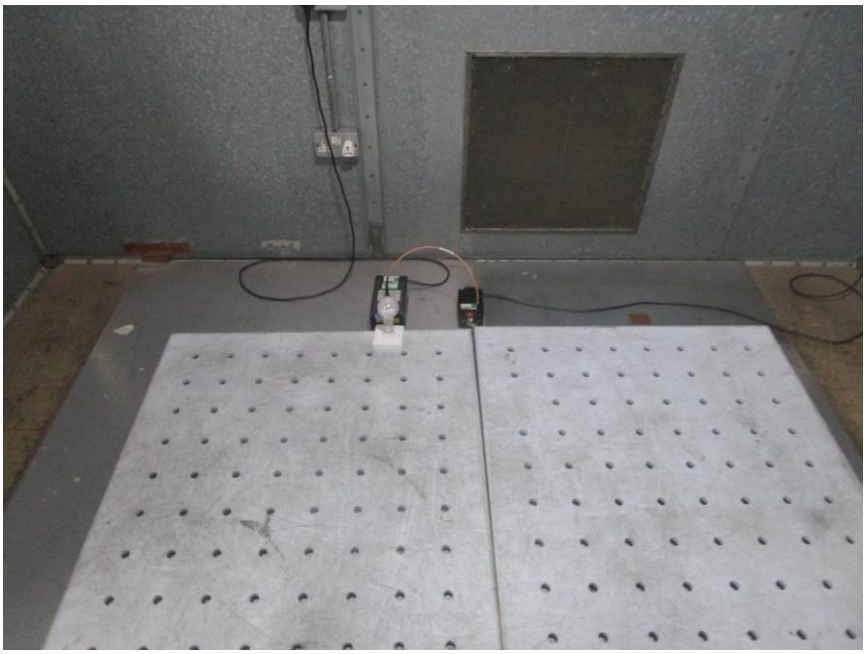
model: C37-5.5-XX/A11F/11/3



model: A60-6.5-27/G138/5Y2



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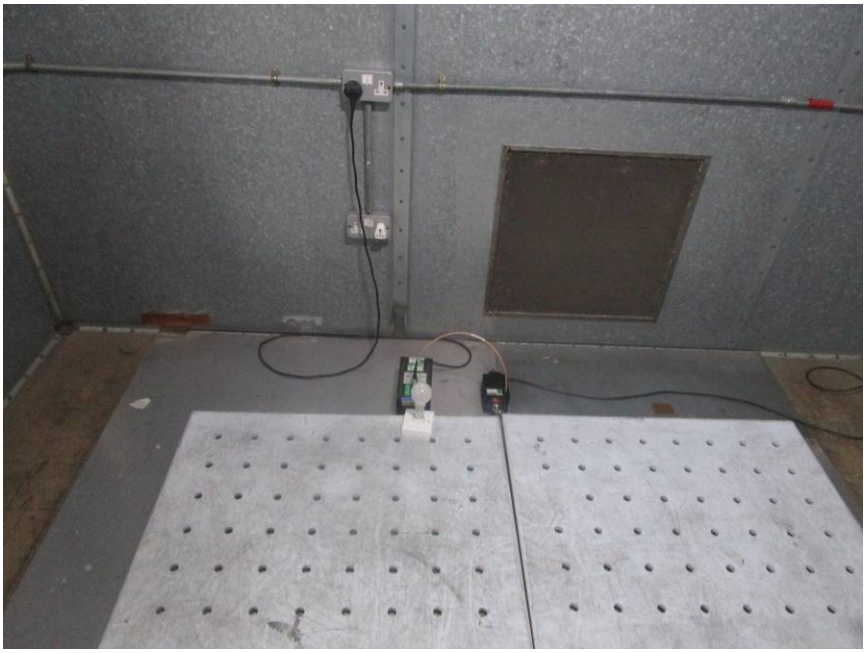
model: A60-6.5-27/G138/5Y2



model: C35-4-27/G118/5Y2



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8.10 Voltage Dips and Interruptions Test Setup

model: A60-14-XX/A12J/14/M



model: MR16-6-XX/E165/14/2J



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model: A60-6-XX/A13J/14/5/M



model: A60-9-XX/A12J/14/5



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model: G45-5.5-XX/A12F/11/3



model: GU10-6-XX/A159/14/XJ



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model: C37-5.5-XX/A11F/11/3



model: A60-6.5-27/G138/5Y2



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model: A60-6.5-27/G138/5Y2



model: C35-4-27/G118/5Y2



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8.11 EUT Constructional Details

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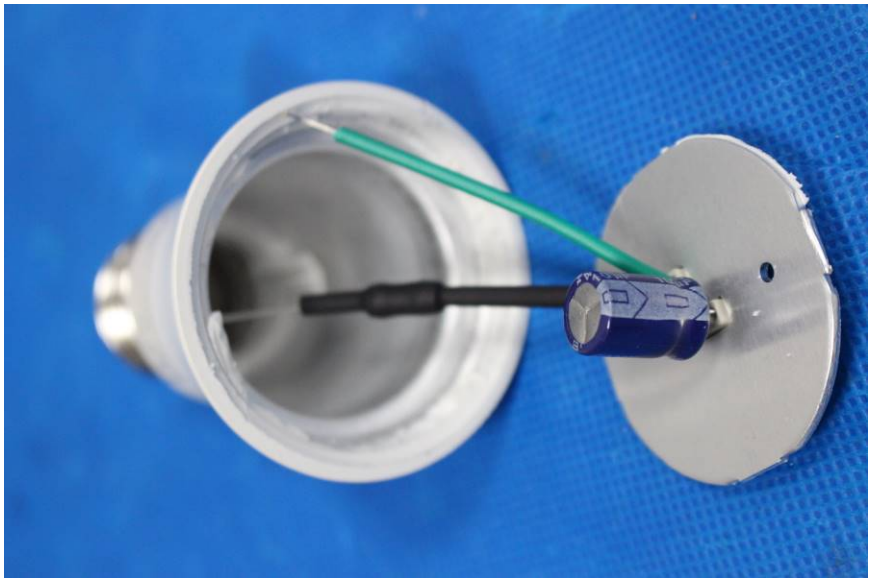

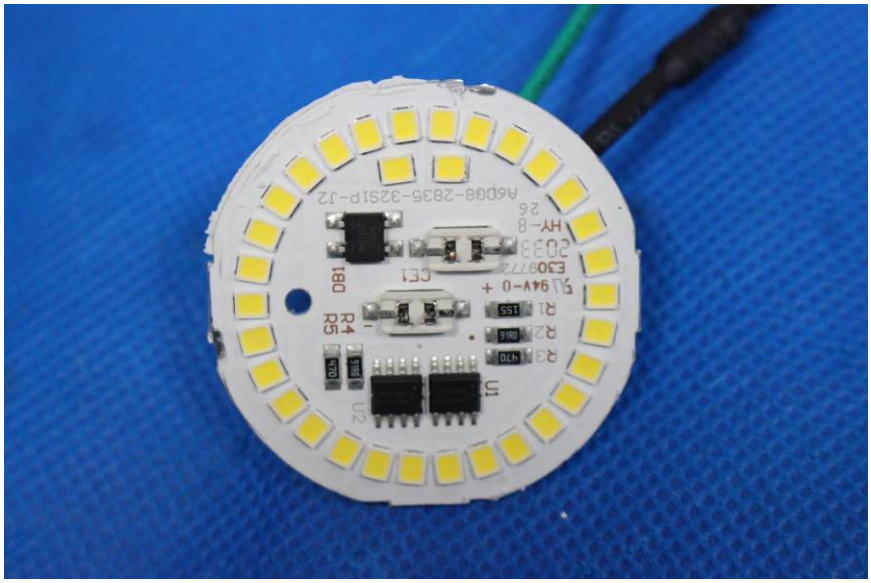

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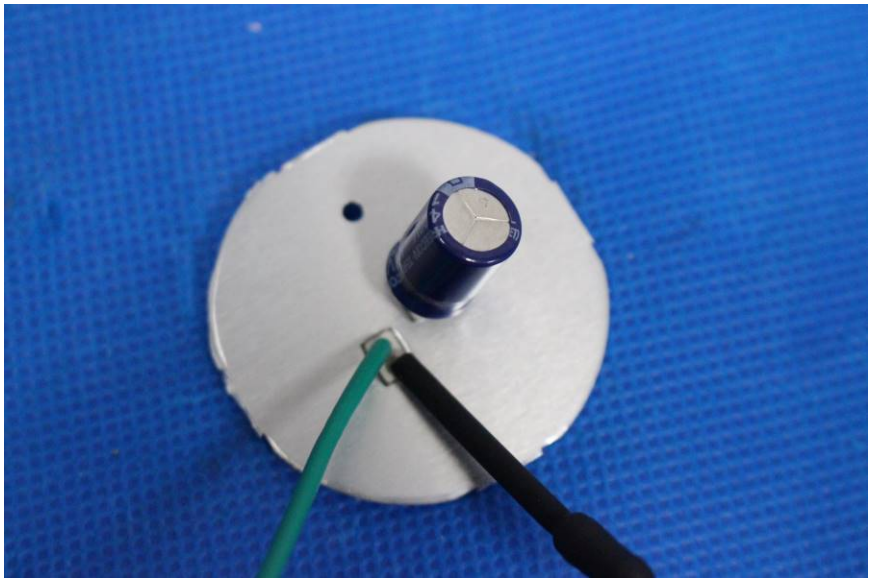

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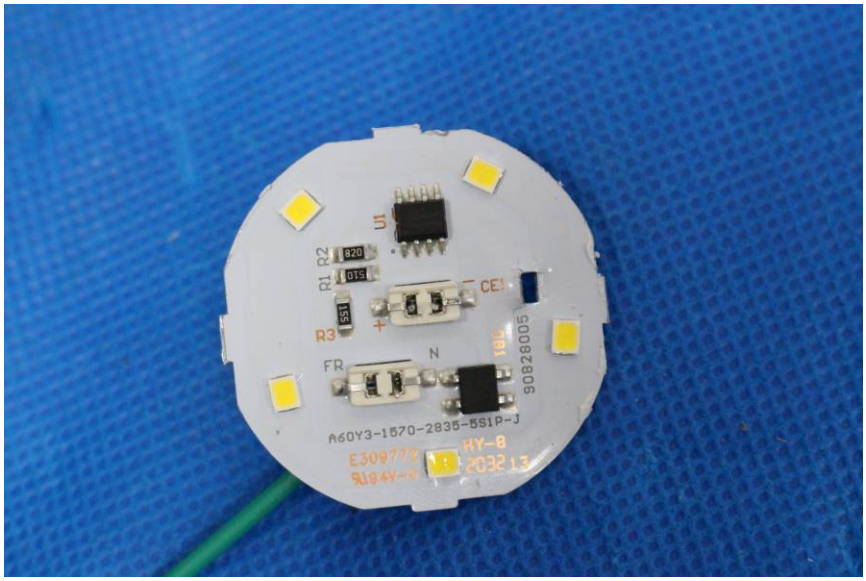

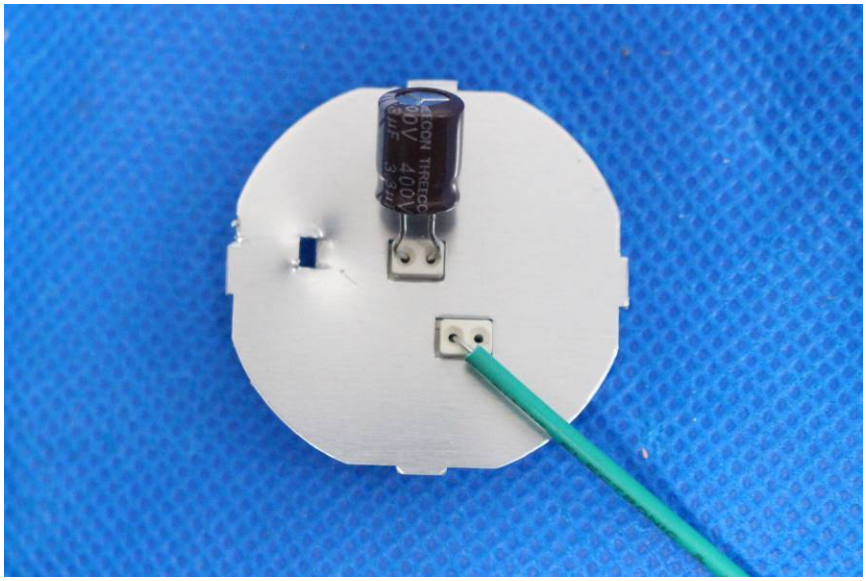

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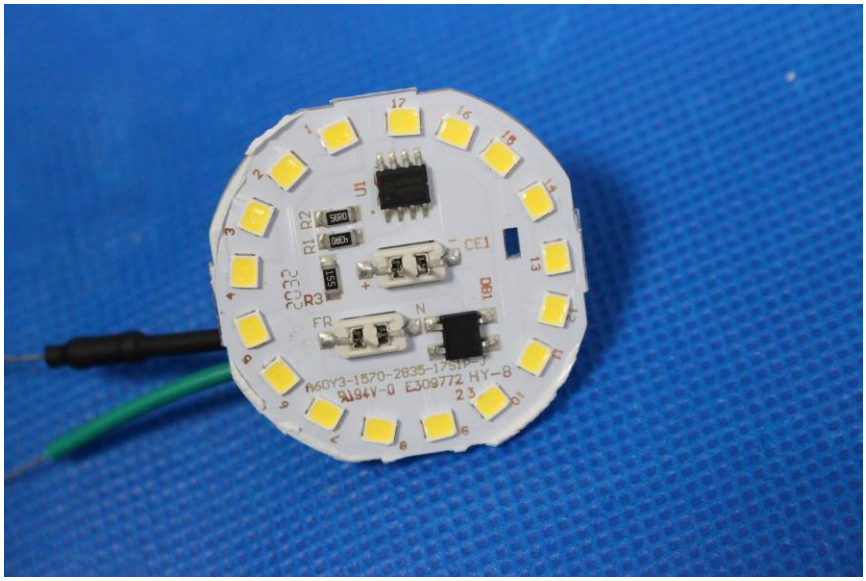

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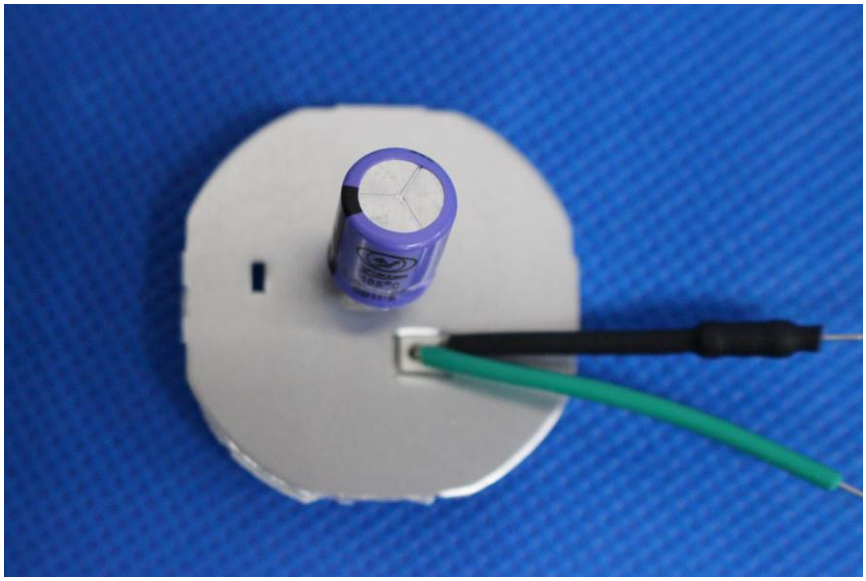

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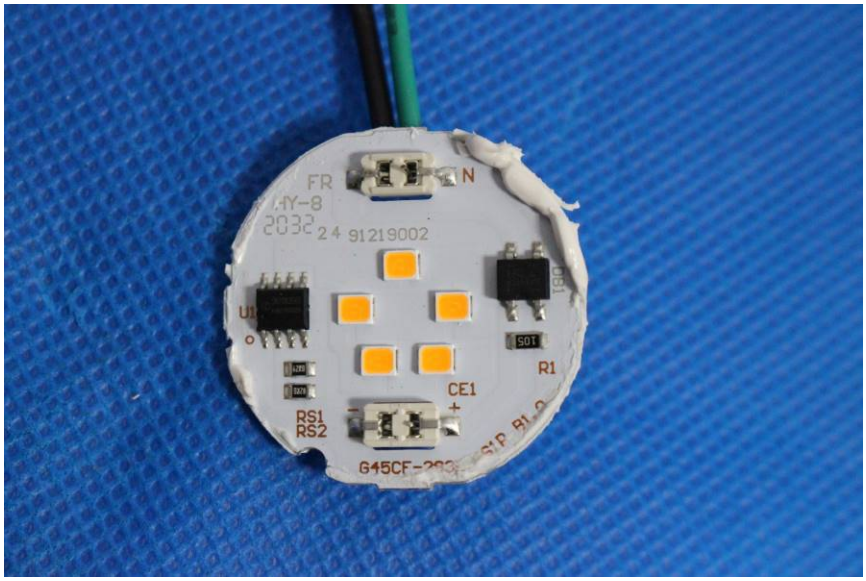

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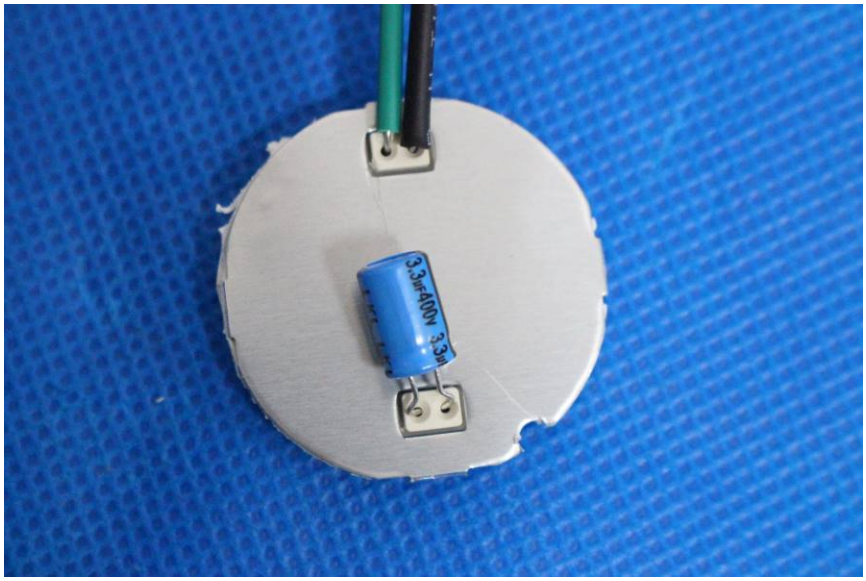

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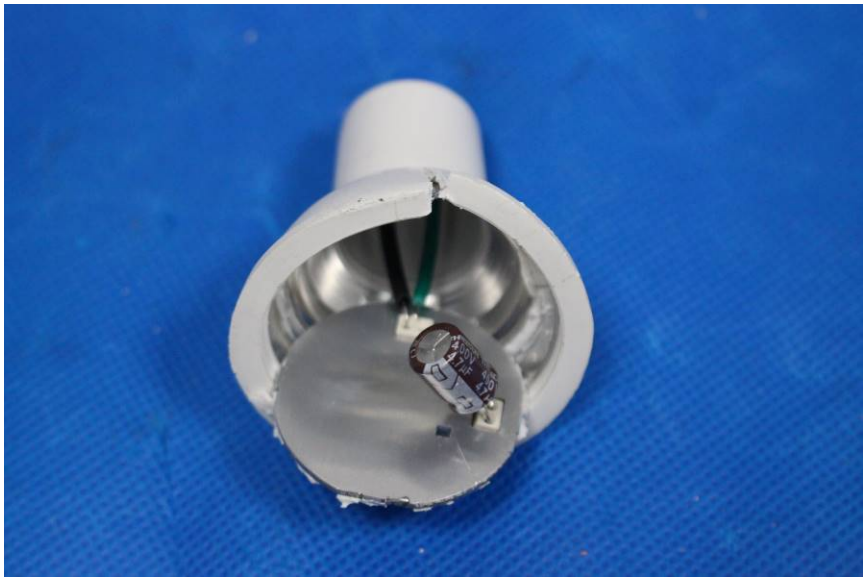

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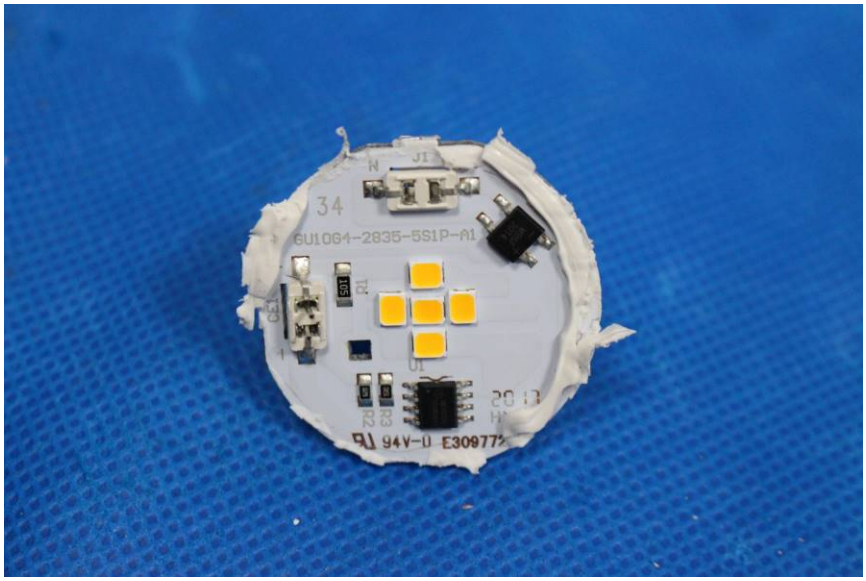

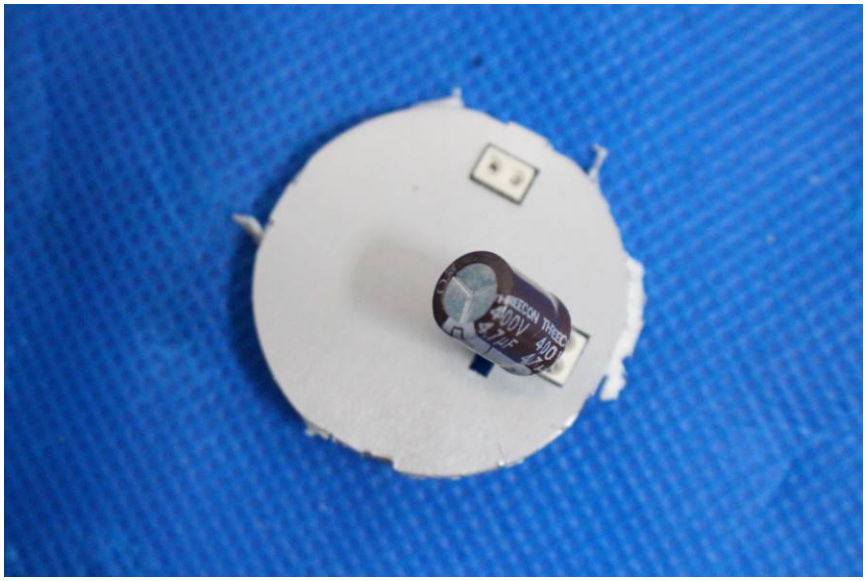

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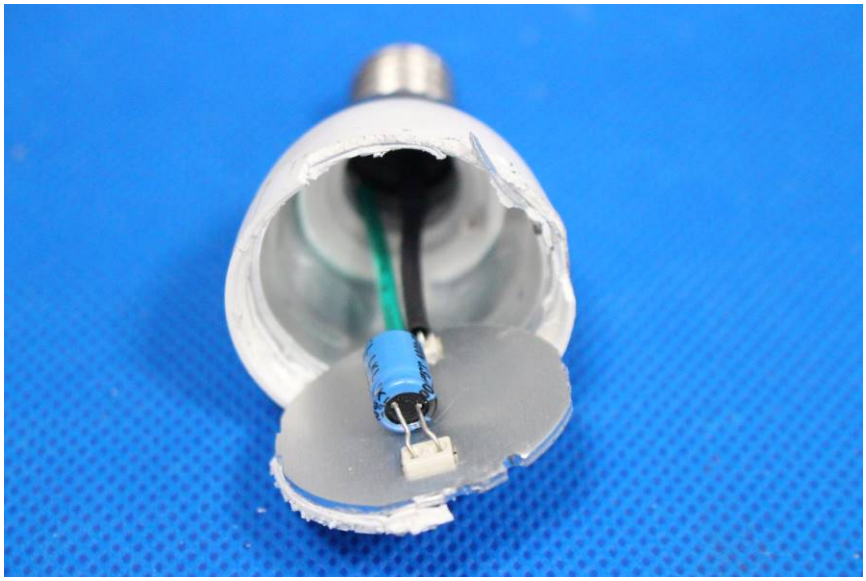

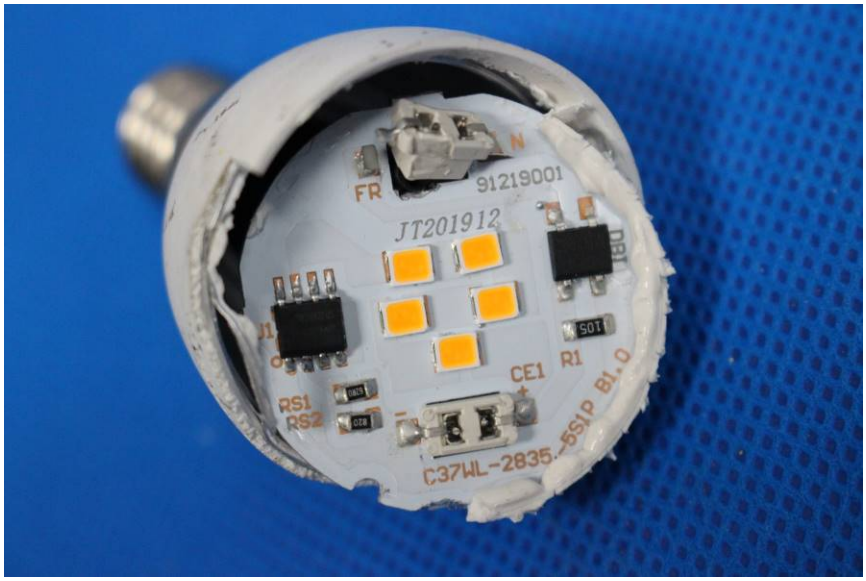

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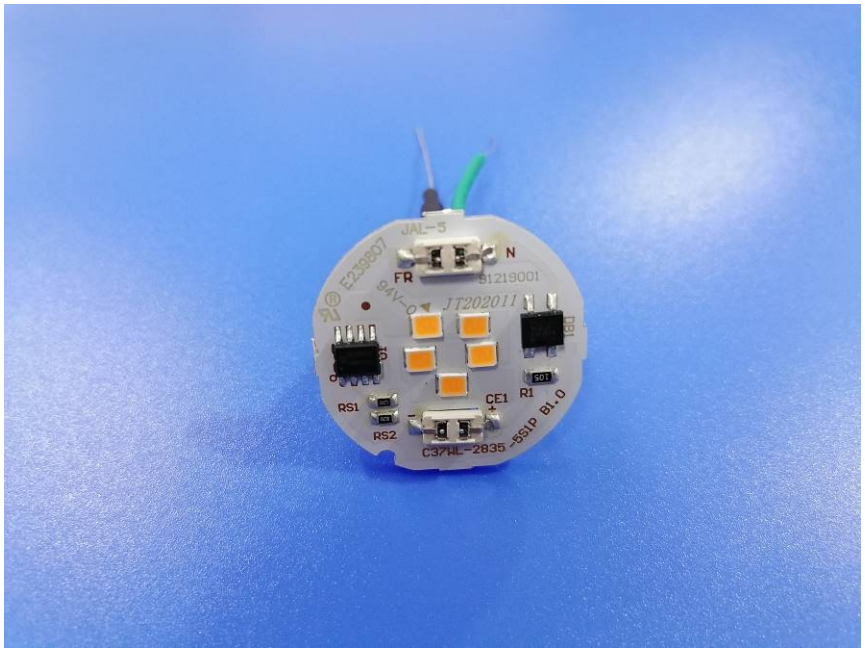

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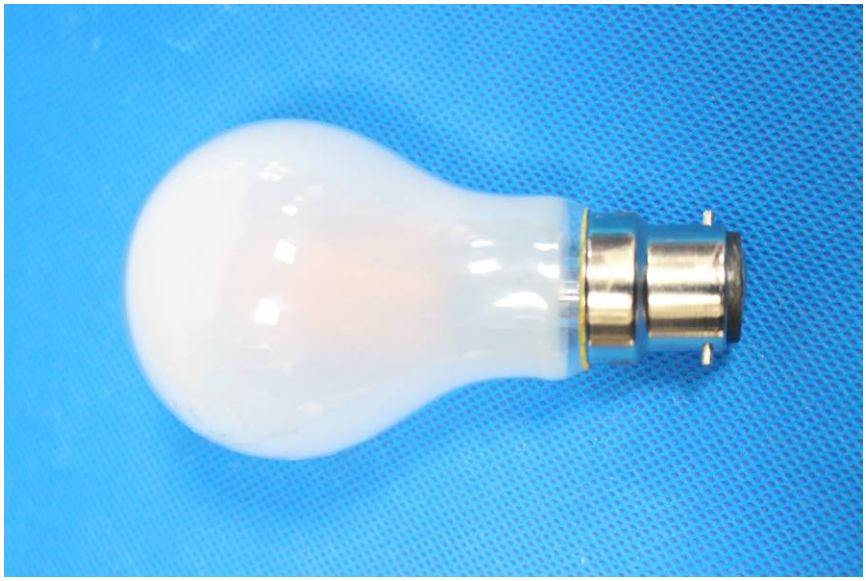

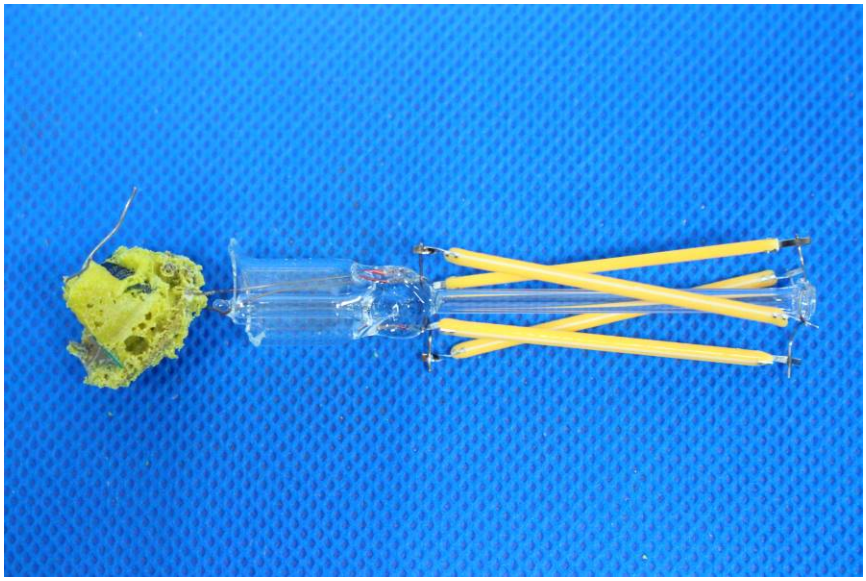

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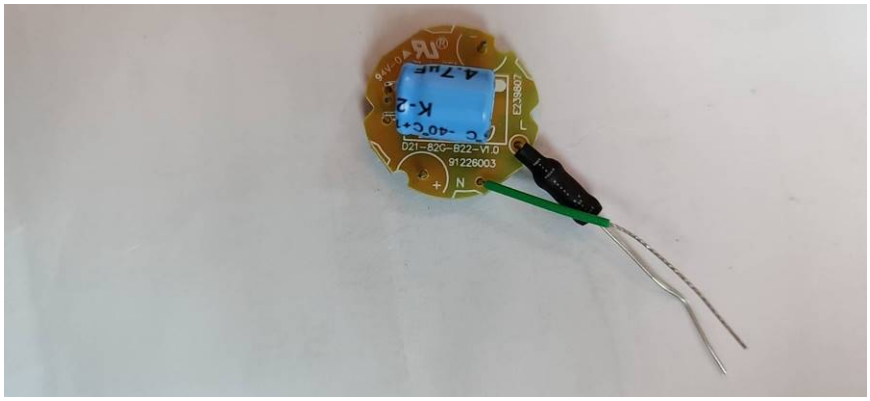

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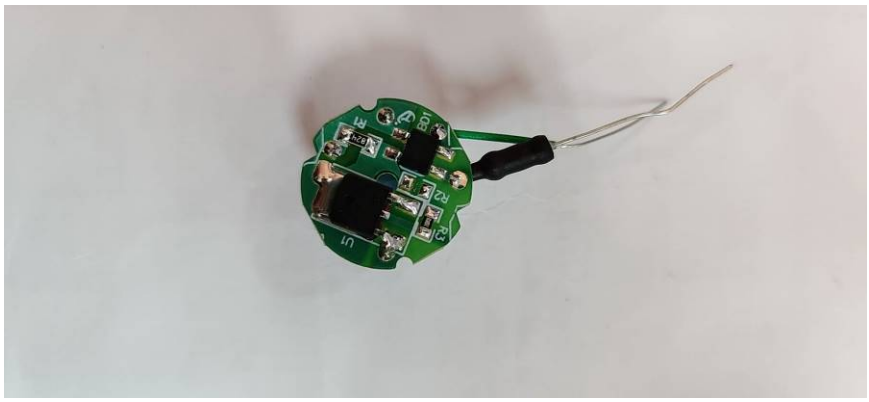

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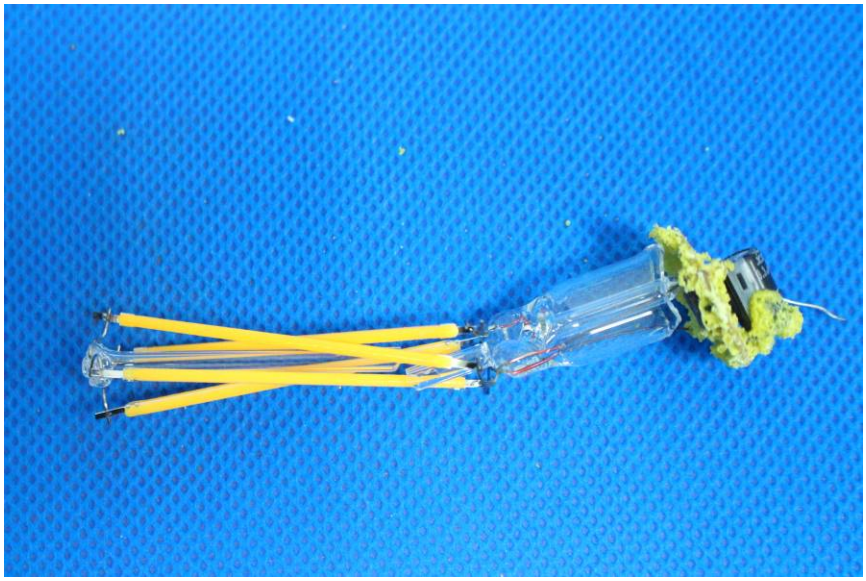

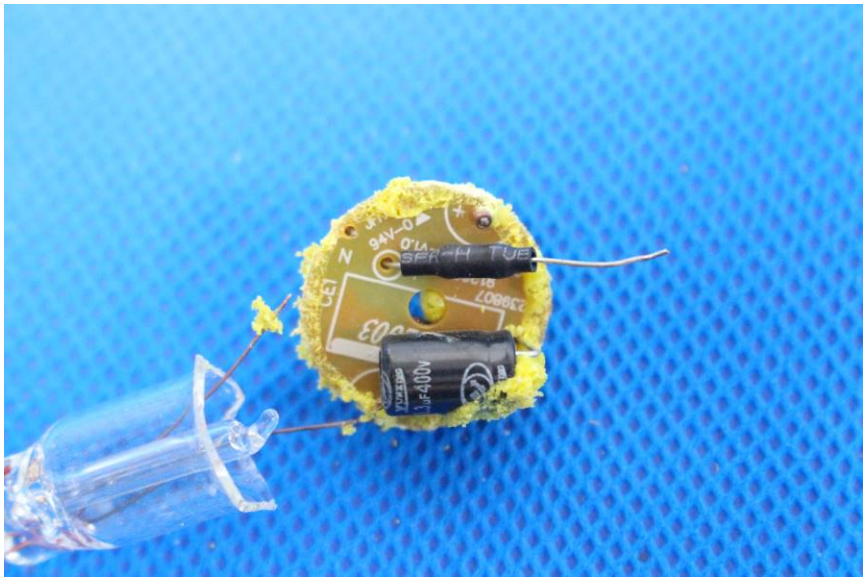

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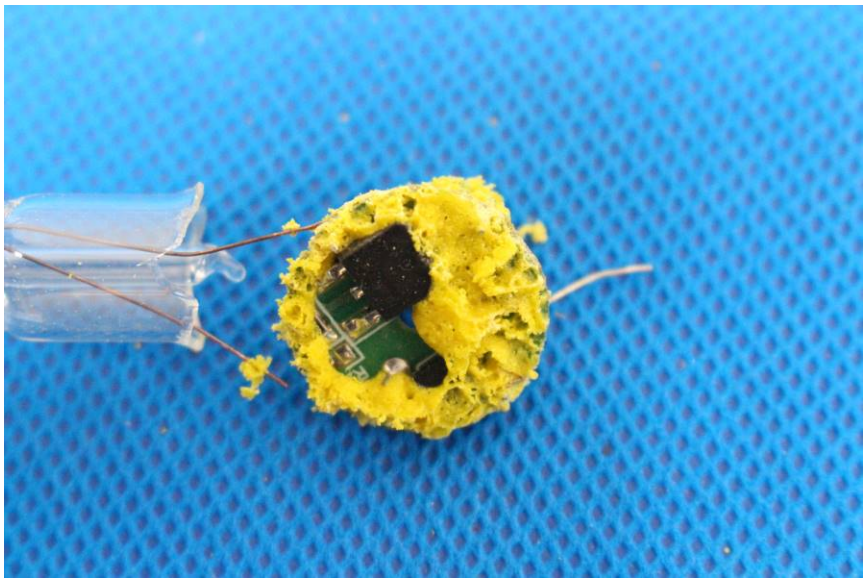

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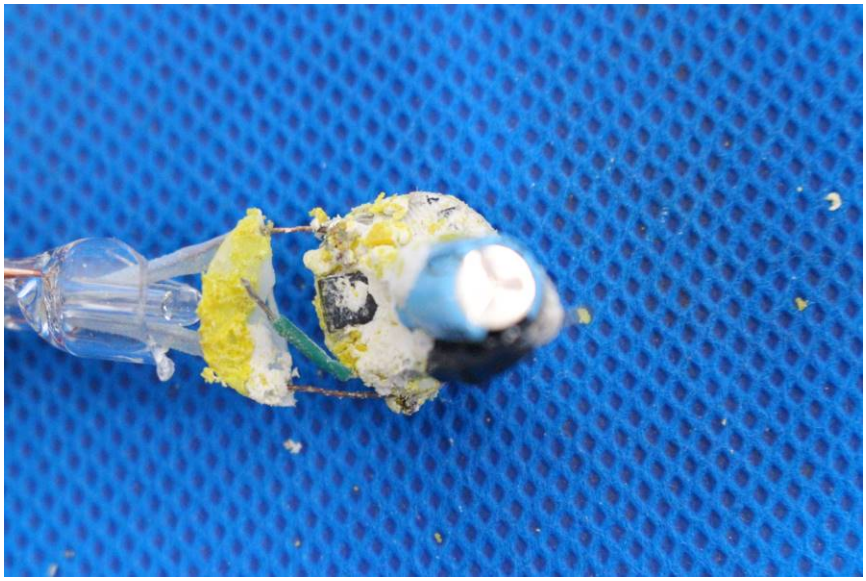

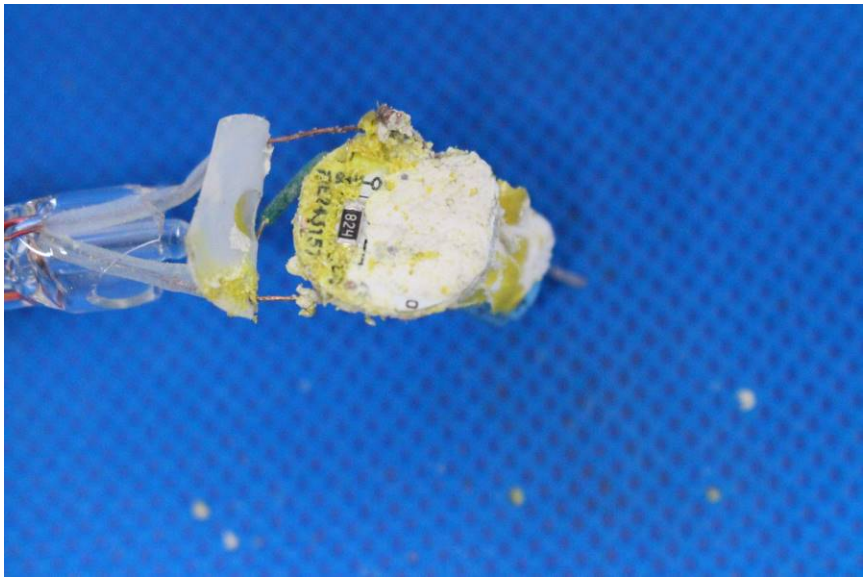

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model: MR16-6-XX/E165/14/2J





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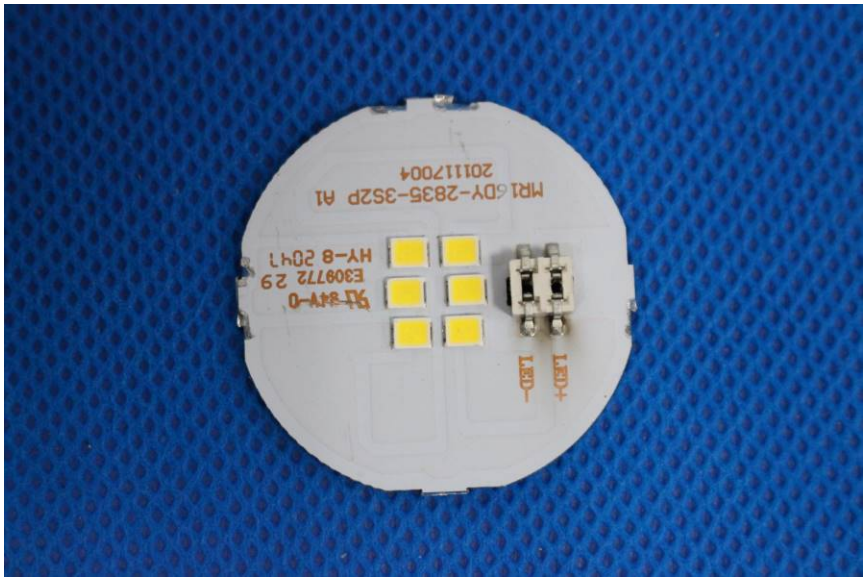

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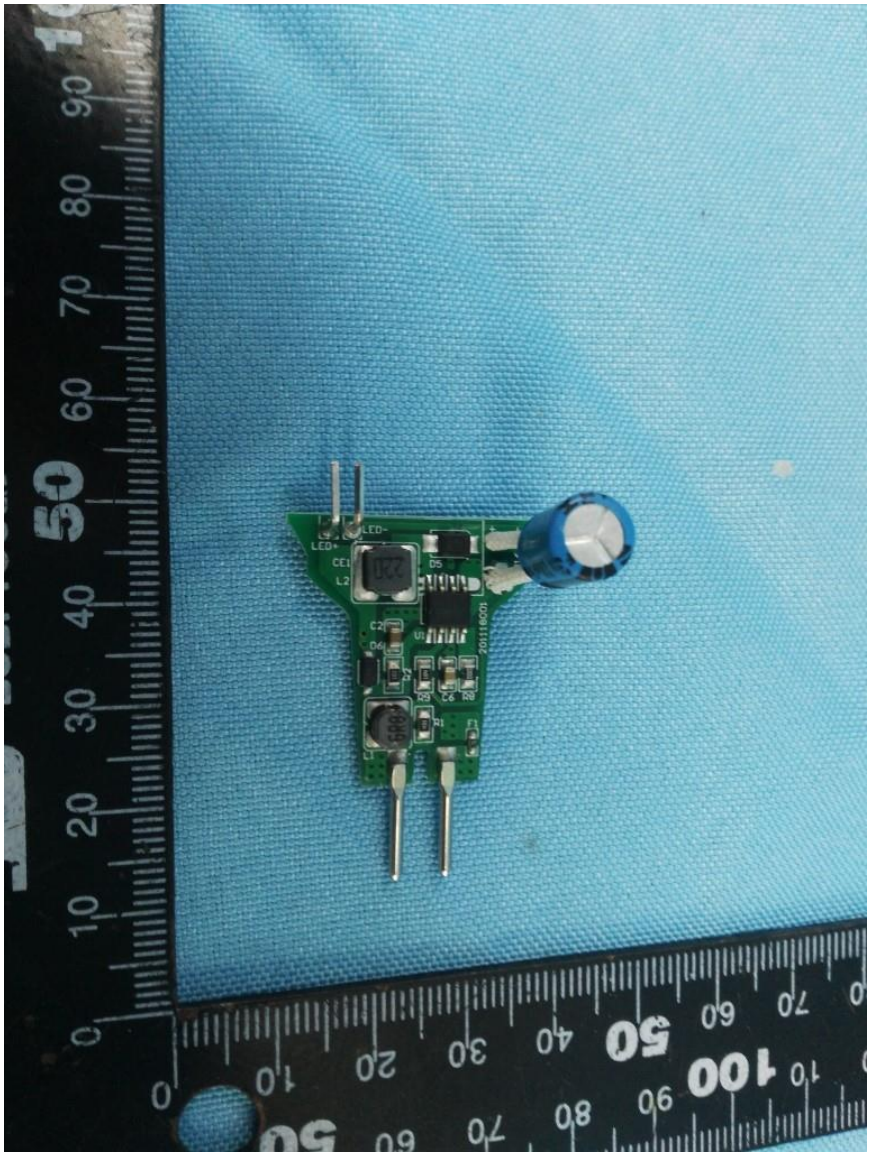

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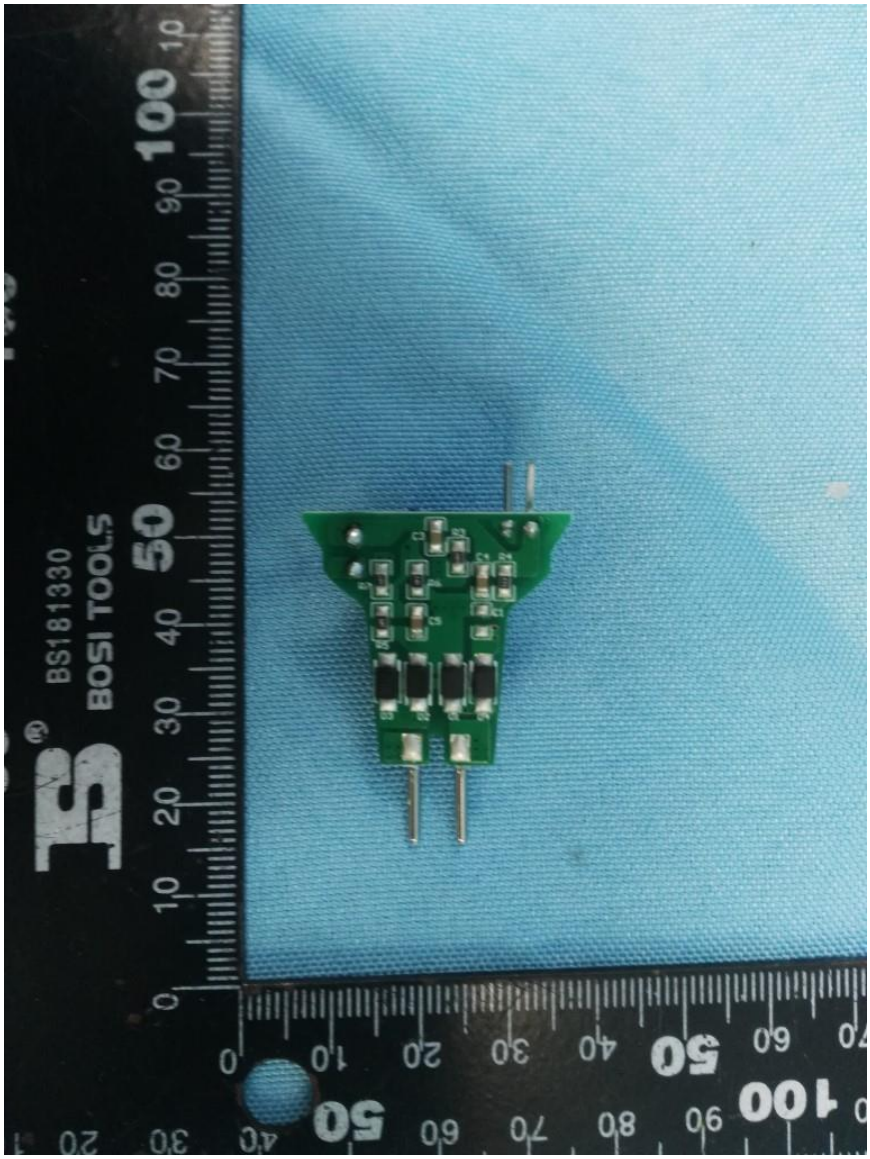

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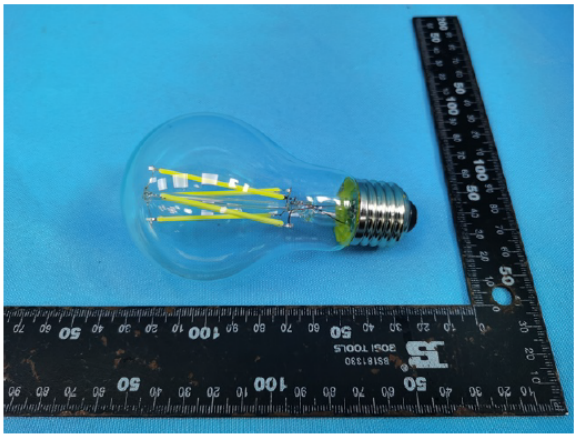
The photos below were supplied by applicant:

Model: A60-6.5-XX/G128-5Y2

View:
- ☒ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☐ top
- ☐ bottom
- ☐ internal



Model: A60-6.5-XX/G138-5Y2

View:
- ☒ general
- ☐ front
- ☐ rear
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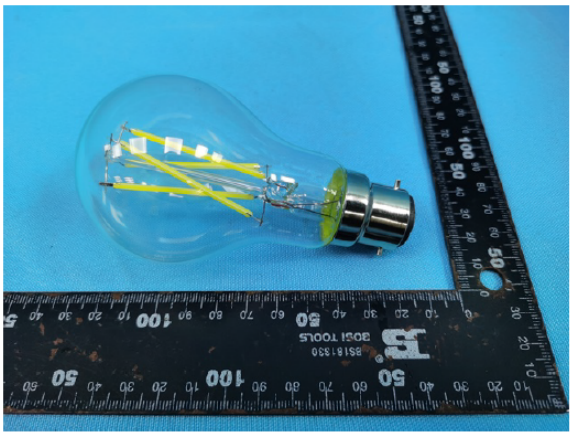

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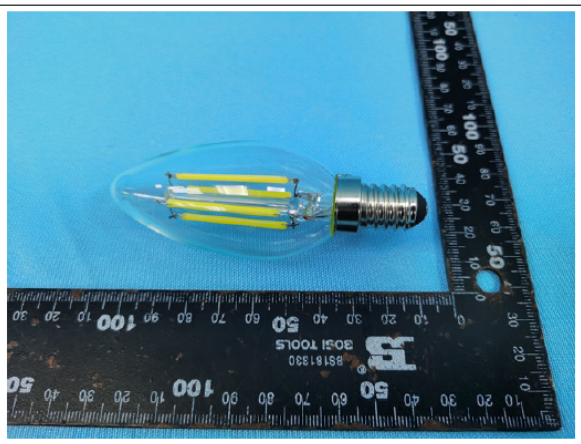
Model: C35-4-XX-G118-5Y2

View:

- ☒ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☐ top
- ☐ bottom
- ☐ internal



--End of Report--

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