

CE/EMC COMPLIANCE REPORT

For

GlobTek, Inc.

Switching Adapter

Prepared for : GlobTek, Inc.

Address : 186 Veterans Dr. Northvale, NJ 07647 USA

Prepared by : EST Technology Co., Ltd.

Address : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

Tel: 86-769-83081888

Fax: 86-769-83081878

Report No. : ESTE-E1607005-3

Date of Report : Jan. 13, 2020

TABLE OF CONTENTS

Test Report Declaration	Page
1. GENERAL PRODUCT INFORMATION	4
1.1. Product Function	4
1.2. Description of Device (EUT)	4
1.3. Difference between Model Numbers	4
1.4. Independent Operation Modes	5
2. TEST STANDARDS AND SITES	6
2.1. Description of Standards and Results	6
2.2. Test Facilities	7
2.3. List of Test and Measurement Instruments	8
3. TEST SET-UP AND OPERATION MODES	10
3.1. Principle of Configuration Selection	10
3.2. Block Diagram of Test Set-up	10
3.3. Test Operation Mode and Test Software	10
3.4. Special Accessories and Auxiliary Equipment	10
3.5. Countermeasures to Achieve EMC Compliance	10
4. EMISSION TEST RESULTS	11
4.1. Conducted Emission at The Mains Terminals Test	11
4.2. Radiated Emission Test	44
4.3. Harmonic Current Emissions on AC Mains Test	77
4.4. Voltage Fluctuations and Flicker on AC Mains Test	78
5. IMMUNITY TEST RESULT	80
5.1. Description of Performance Criteria	80
5.2. Electrostatic Discharge Immunity Test	81
5.3. Radio Frequency Electromagnetic Field Immunity Test	83
5.4. Electrical Fast Transient/Burst Immunity Test	86
5.5. Surge Immunity Test	88
5.6. Injected Currents Susceptibility Test	90
5.7. Power Frequency Magnetic Field Immunity Test	92
5.8. Voltage Dips and Short Interruptions Immunity Test	93
6. PHOTOGRAPHS OF TEST SET-UP	95
6.1. Set-up for Conducted Emission at the Mains Terminals Test	95
6.2. Set-up for Radiated Emission Test	95
6.3. Set-up for Harmonic Current Emissions and Flicker on AC Mains Test	96
6.4. Set-up for Electrostatic Discharge Immunity Test	96
6.5. Set-up for Radio Frequency Electromagnetic Field Immunity(R/S) Test	97
6.6. Set-up for Electrical Fast Transient/Burst Immunity Test	97
6.7. Set-up for Surge Immunity Test	98
6.8. Set-up for Power Frequency Magnetic Field Immunity Test	98
6.9. Set-up for Injected Currents Susceptibility Test	99
6.10. Set-up for Voltage Dips and Short Interruptions Immunity Test	99
7. PHOTOGRAPHS OF THE EUT	100

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

Description : Switching Adapter

Model No. : GT-86120-WWVV-W2Z
(WW, VV, Z are variables, Refer to section 1.3)

System Input Voltage : AC 100V-240V, 50/60Hz, 0.5A

DC Line : Unshielded, Undetachable 1.5m

1.3. Difference between Model Numbers

Note:

No.	MODEL	INPUT	OUTPUT		
		V, A	V dc	Max. A	Max. W
1	GT-86120-1005-W2Z	100-240Vac, 0.5A	5.0	2.0	10.0
2	GT-86120-1205-0.8-W2Z	100-240Vac, 0.5A	4.2	1.5	6.3
3	GT-86120-1212-W2Z	100-240Vac, 0.5A	12.0	1.0	12.0

EST Technology Co., Ltd.

Applicant/ Manufacturer:	GlobTek, Inc.		
Address:	186 Veterans Dr. Northvale, NJ 07647 USA		
E.U.T:	Switching Adapter		
Model Number:	GT-86120-WWVV-W2Z WW, VV, Z are variables, Refer to section 1.3)		
Trade Name:	GlobTek, Inc.	Serial No.:	-----
Date of Receipt:	Jan. 13, 2017 Jan. 04, 2020	Date of Test:	Jan. 13-19, 2017 Jan. 06-10, 2020
Test Specification:	EN 55032:2015 CISPR 32:2012 EN IEC 61000-3-2:2019 EN 61000-3-3:2013 EN 55035:2017 CISPR 35:2016		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
Issue Date: Jan. 13, 2020			
Prepared by:	Reviewed by:	Approved by:	
 Lena/ Assistant	 Sean / Engineer	 Iceman Hu / Manager	
Other Aspects: This report is based on the previous report, which is numbered ESTE-E1607005-2, This report adds a new transformer.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
<i>This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. The statement of compliance in this report is based on the limit in the test standard, the measurement uncertainty is not considered.</i>			

1.4. Independent Operation Modes

The basic operation modes are:

1.4.1. Full Load

1.4.2. Half Load

1.4.3. No Load

2. TEST STANDARDS AND SITES

2.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION(EN 55032:2015)				
Description of Test Item	Standard	Limits		Results
Conducted disturbance at mains terminals	EN 55032:2015	Class B		PASS
		Minimum passing margin is 5.76dB at 0.16MHz		
Asymmetric mode conducted emissions	EN 55032:2015	Class B		N/A
		More than **** dB below the limit line.		
Radiated disturbance	EN 55032:2015	Class B		PASS
		Minimum passing margin is 5.58dB at 42.61MHz		
Harmonic current emissions	EN IEC 61000-3-2:2019	Class A		N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013	Section 4.4		PASS
IMMUNITY (EN 55035:2017)				
Description of Test Item	Basic Standard	Performance Criteria	Observation Criteria	Results
Electrostatic discharge (ESD)	EN 61000-4-2:2009	B	B	PASS
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3:2006+ A1:2008+A2:2010	A	A	PASS
Electrical fast transient (EFT)	EN 61000-4-4:2012	B	B	PASS
Surge (Input a.c. power port)	EN 61000-4-5:2014	B	B	PASS
Radio-frequency,Continuous conducted disturbance	EN 61000-4-6:2014	A	A	PASS
Power frequency magnetic field	EN 61000-4-8:2010	A	A	PASS
Voltage dips, >95% reduction	EN 61000-4-11:2004	B	B	PASS
Voltage dips, 30% reduction		C	C	PASS
Voltage interruptions		C	C	PASS
N/A is an abbreviation for Not Applicable.				

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
Date of registration: November 13, 2017

Certificated by FCC, USA
Designation Number: CN1215
Test Firm Registration Number: 722932
Date of registration: November 21, 2017

Certificated by A2LA, USA
Registration No.: 4366.01
Date of registration: November 07, 2017

Certificated by Industry Canada
CAB identifier No.: CN0035
Date of registration: January 04, 2019

Certificated by VCCI, Japan
Registration No.: R-13663; C-14103
Date of registration: July 25, 2017
This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3.List of Test and Measurement Instruments

2.3.1. For conducted emission at the mains terminals test (1# conduction)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	June 14,19	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	June 14,19	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

2.3.2. For radiated emission test (2# 966 radiation)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI3	EST-E071	June 14,19	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E053	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

2.3.3. For harmonic current emissions and voltage fluctuations/flicker test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Analyzer	California Instruments	3001IX-208-CTS	EST-E011	June 14,19	1 Year
Voltage Source	California Instruments	3001IX-208	EST-E012	June 14,19	1 Year
Test Software	California Instruments	CTS	N/A	N/A	N/A

2.3.4. For electrostatic discharge immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
ESD Generator	HAEFELY	ONYX16	EST-E013	June 14,19	1 Year

2.3.5. Radio Frequency Electromagnetic Field Immunity (R/S) Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Signal Generator	Agilent	N5181A	EST-E060	Sep. 06, 19	1 Year
Power Amplifier	SKET	HAP801000M-250W	EST-E061	N/A	N/A
Power Amplifier	SKET	HAP0103G-75W	EST-E062	N/A	N/A
Power Amplifier	SKET	HAP0306G-50W	EST-E063	N/A	N/A
Power Meter	Agilent	E4419B	EST-E064	June 14,19	1 Year
Power sensor	Agilent	E9301A	EST-E065	June 14,19	1 Year
Power sensor	HP	E9301A	EST-E066	June 14,19	1 Year
Antenna	Schwarzbeck	STLP 9129	EST-E059	N/A	N/A
E-Field Probe	Narda	EP-601	EST-E067	June 14,19	1 Year
Test Software	SKET	EMC-S	V1.2.0.48	N/A	N/A

2.3.6. For electrical fast transient/burst immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EFT Generator	EMC PARTNER	TRANSIENT 2000	EST-E074	June 14,19	1 Year
Capacitive Coupling Clamp	HAEFELY	IP4A	EST-E040	June 14,19	1 Year

2.3.7. For surge immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Surge Controller	HAEFELY	PSURGE8000	EST-E015	June 14,19	1 Year
Surge Impulse Module	HAEFELY	PIM100	EST-E016	June 14,19	1 Year
Surge Coupling Network	HAEFELY	PCD100	EST-E017	June 14,19	1 Year

2.3.8. For injected currents susceptibility test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Signal Generator	Rohde &Schwarz	SMB100A	EST-E025	June 14,19	1 Year
Power Amplifier	FRANKONIA	CIT-10	EST-E021	June 14,19	1 Year
Power Meter	Rohde &Schwarz	NRVS	EST-E027	June 14,19	1 Year
CDN	FRANKONIA	CDN-M2+M3	EST-E022	June 14,19	1 Year
EM-Clamp	FRANKONIA	EMCL-20	EST-E042	June 14,19	1 Year
Test Software	SKET	EMC-S	V1.2.0.80	N/A	N/A

2.3.9.For power frequency magnetic field immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Magnetic Field Tester	HAEFELY	MFS 100	EST-E018	June 14,19	1 Year

2.3.10.For voltage dips and short interruptions immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
DIPS Tester	EMC PARTNER	TRANSIENT 2000	EST-E074	June 14,19	1 Year

Note: All calibration reports of the equipment were provided by LiSai calibration and Testing

3. TEST SET-UP AND OPERATION MODES

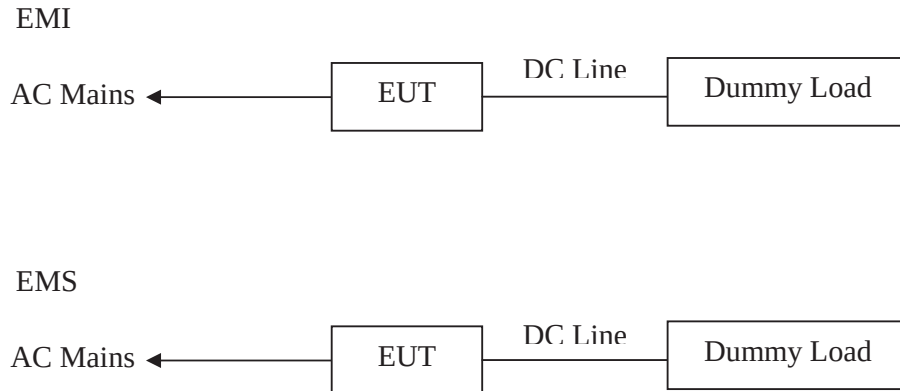
3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

Immunity: The equipment under test (EUT) was configured to the representative operating mode and conditions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Simulators



(EUT: Switching Adapter)

3.3. Test Operation Mode and Test Software

Refer to Test Setup in clause 4 & 5.

3.4. Special Accessories and Auxiliary Equipment

None.

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Conducted Emission at The Mains Terminals Test

RESULT : **Pass**
Test procedure : EN 55032:2015
Frequency range : 0.15~30MHz
Test Site : 1# Conduction Shielded Room
Limits : EN 55032:2015 Class B

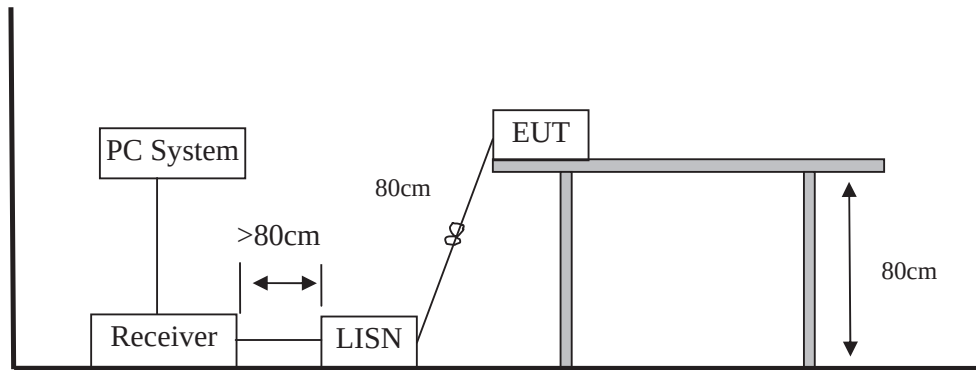
Test Setup

Date of test : Jan. 17, 2017; Jan. 06, 2020
Model No. : DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100,
DSA-12CB-05 050200, DSA-12CB-12 120100,
DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage : AC 230V/50Hz, AC 110V/60Hz
Operation Mode : Full Load, Half Load, No Load

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

The test data of the worst case condition(s) was reported on the following page.



Note: Test uncertainty: $\pm 3.38\text{dB}$ at a level of confidence of 95%.(1#CE)

Test Data

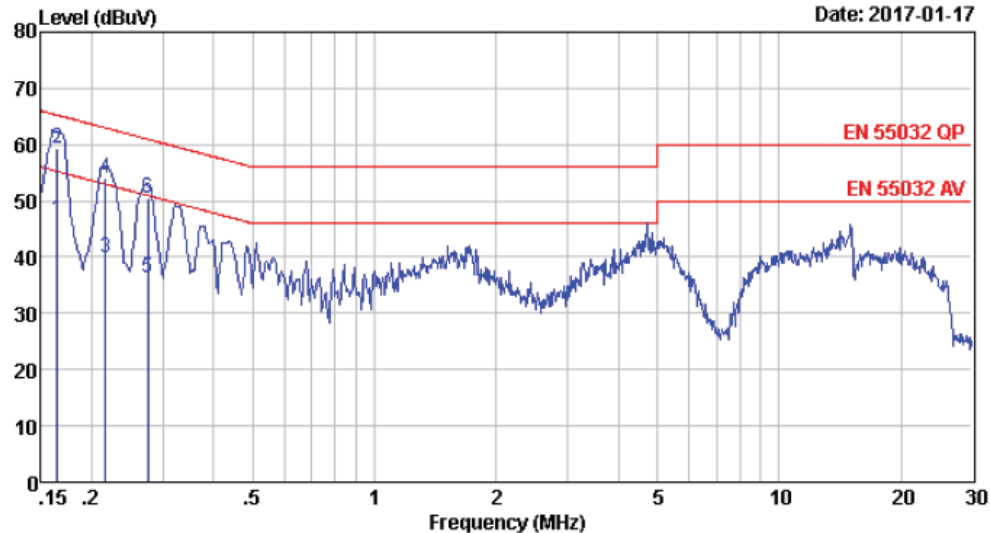
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 191

File: \\EST-CE\test data\2017\01\备份\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Distrubance Power Shield Room Data no. : 191
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFT-05 FEU 050200
Test Mode : Full Load(Output:5V/2A)

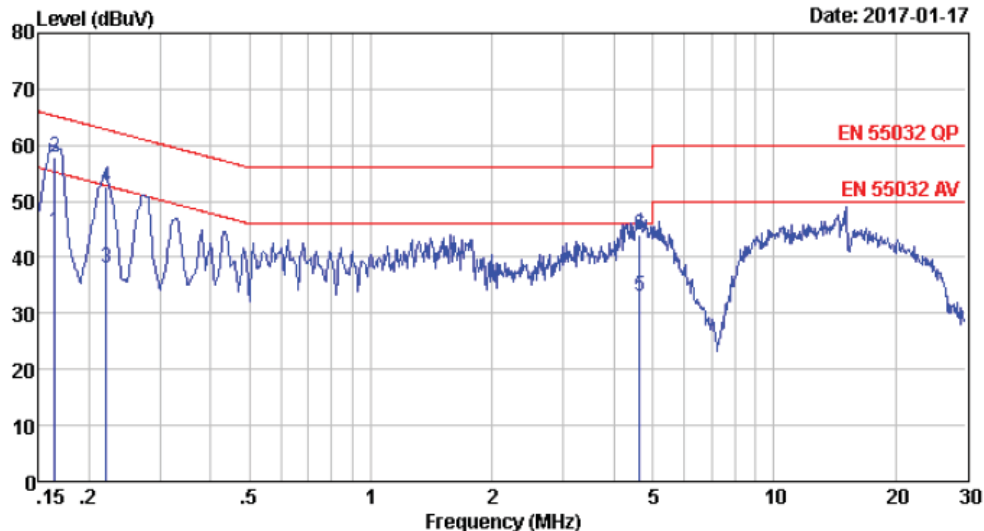
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.50	9.81	27.39	46.70	55.25	8.55	Average
2	0.16	9.50	9.81	39.89	59.20	65.25	6.05	QP
3	0.22	9.60	9.80	20.40	39.80	52.96	13.16	Average
4	0.22	9.60	9.80	34.71	54.11	62.96	8.85	QP
5	0.28	9.60	9.83	16.77	36.20	50.94	14.74	Average
6	0.28	9.60	9.83	31.18	50.61	60.94	10.33	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Data: 193

File: \\EST-CE\\test data\\2017\\0\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Distrubance Power Shield Room Data no. : 193
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12PFT-05 FEU 050200
 Test Mode : Full Load(Output:5V/2A)

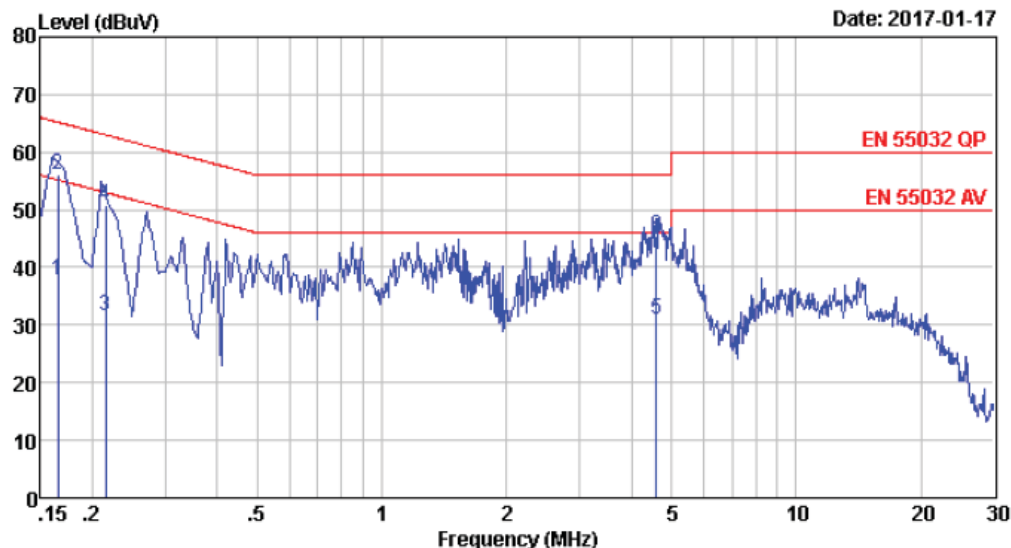
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.61	9.81	25.18	44.60	55.25	10.65	Average
2	0.16	9.61	9.81	38.30	57.72	65.25	7.53	QP
3	0.22	9.61	9.80	18.79	38.20	52.79	14.59	Average
4	0.22	9.61	9.80	33.04	52.45	62.79	10.34	QP
5	4.65	9.65	9.86	13.59	33.10	46.00	12.90	Average
6	4.65	9.65	9.86	24.36	43.87	56.00	12.13	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 195

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Disturbance Power Shield Room Data no. : 195
 Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFT-05 FEU 050200
 Test Mode : Full Load(Output:5V/2A)

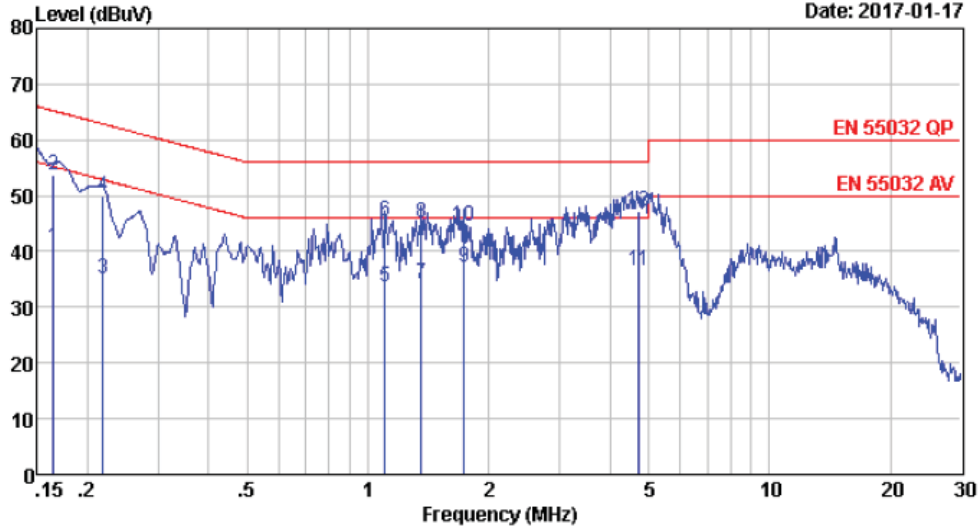
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.17	9.61	9.81	18.48	37.90	55.21	17.31	Average
2	0.17	9.61	9.81	36.81	56.23	65.21	8.98	QP
3	0.22	9.61	9.80	12.19	31.60	53.01	21.41	Average
4	0.22	9.61	9.80	31.31	50.72	63.01	12.29	QP
5	4.60	9.65	9.85	11.60	31.10	46.00	14.90	Average
6	4.60	9.65	9.85	25.85	45.35	56.00	10.65	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 197

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Disturbance Power Shield Room Data no. : 197
 Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFT-05 FEU 050200
 Test Mode : Full Load(Output:5V/2A)

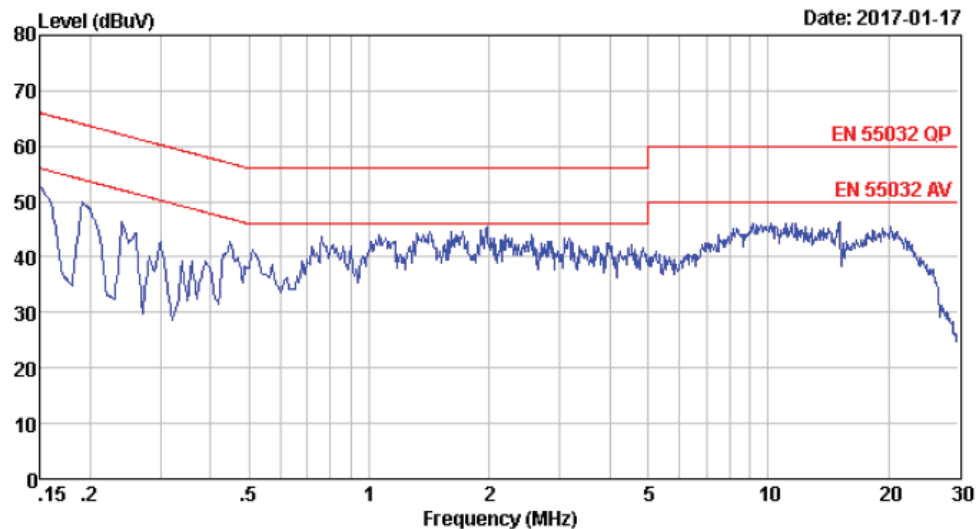
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.16	9.61	9.69	21.30	40.60	55.25	14.65	Average
2	0.16	9.61	9.69	34.51	53.81	65.25	11.44	QP
3	0.22	9.62	9.84	15.64	35.10	52.88	17.78	Average
4	0.22	9.62	9.84	30.53	49.99	62.88	12.89	QP
5	1.10	9.74	9.94	14.02	33.70	46.00	12.30	Average
6	1.10	9.74	9.94	25.68	45.36	56.00	10.64	QP
7	1.36	9.77	9.95	14.48	34.20	46.00	11.80	Average
8	1.36	9.77	9.95	25.33	45.05	56.00	10.95	QP
9	1.73	9.80	9.95	17.35	37.10	46.00	8.90	Average
10	1.73	9.80	9.95	24.85	44.60	56.00	11.40	QP
11	4.72	9.91	10.00	16.69	36.60	46.00	9.40	Average
12	4.72	9.91	10.00	27.26	47.17	56.00	8.83	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 199

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

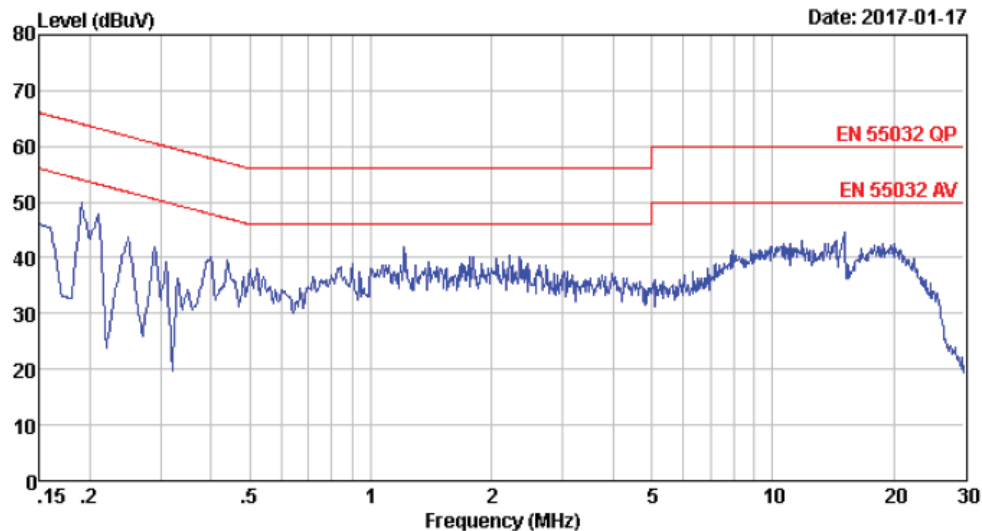


Site no : 844 Distrubance Power Shield Room Data no. : 199
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFT-12 FEU 120100
Test Mode : Full Load(Output:12V/1A)

Data: 201

File: \\EST-CE\test data\2017\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

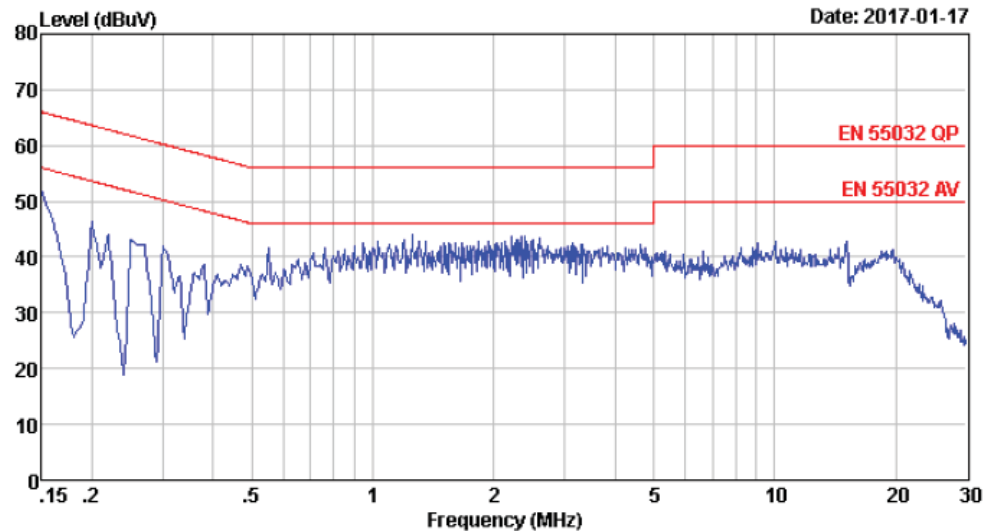


Site no : 844 Disturbance Power Shield Room Data no. : 201
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFT-12 FEU 120100
Test Mode : Full Load(Output:12V/1A)

Data: 203

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

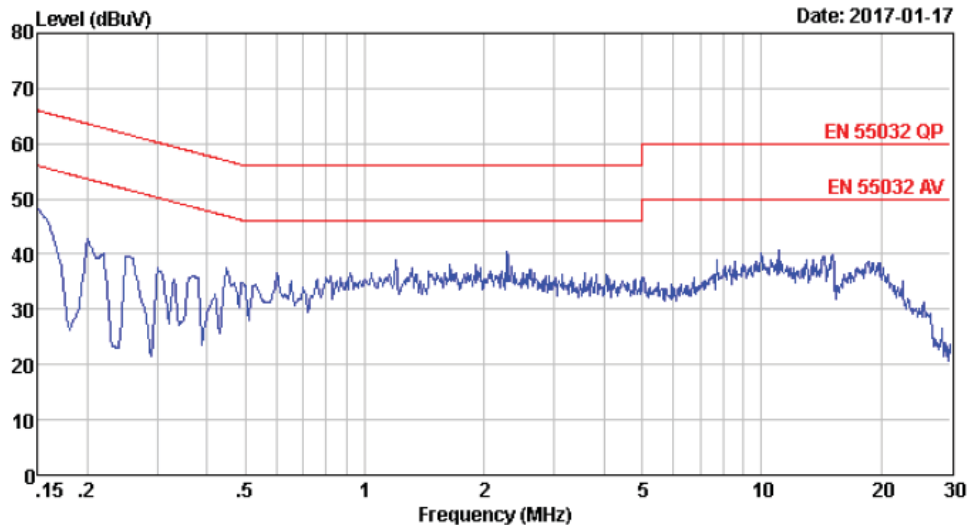


Site no : 844 Disturbance Power Shield Room Data no. : 203
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFT-12 FEU 120100
Test Mode : Full Load(Output:12V/1A)

Data: 205

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

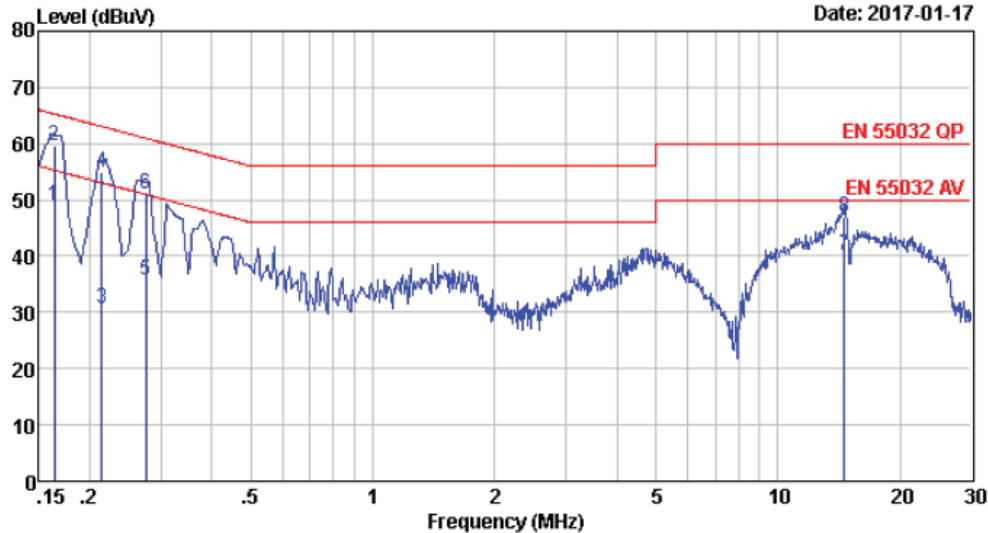


Site no : 844 Disturbance Power Shield Room Data no. : 205
Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFT-12 FEU 120100
Test Mode : Full Load(Output:12V/1A)

Data: 207

File: \\EST-CE\\test data\\2017\\D\\备份\\DIWEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Disturbance Power Shield Room Data no. : 207
 Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12CB-050200
 Test Mode : Full Load(Output:5V/2A)

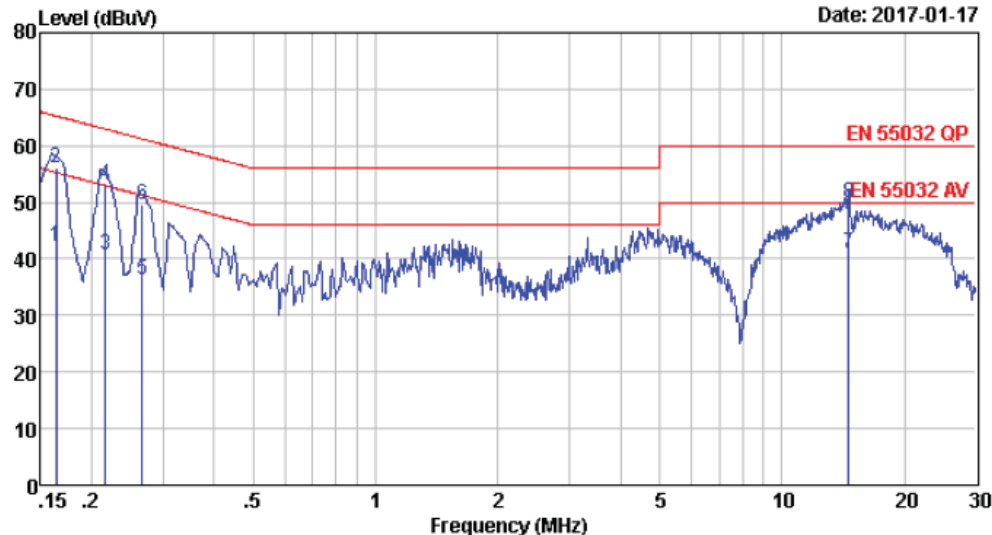
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.73	9.69	29.48	48.90	55.30	6.40	Average
2	0.16	9.73	9.69	40.12	59.54	65.30	5.76	QP
3	0.21	9.73	9.84	11.03	30.60	53.05	22.45	Average
4	0.21	9.73	9.84	35.38	54.95	63.05	8.10	QP
5	0.28	9.72	9.92	16.06	35.70	50.94	15.24	Average
6	0.28	9.72	9.92	31.53	51.17	60.94	9.77	QP
7	14.59	9.87	10.12	20.11	40.10	50.00	9.90	Average
8	14.59	9.87	10.12	27.01	47.00	60.00	13.00	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 209

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Disturbance Power Shield Room Data no. : 209
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12CB-050200
 Test Mode : Full Load(Output:5V/2A)

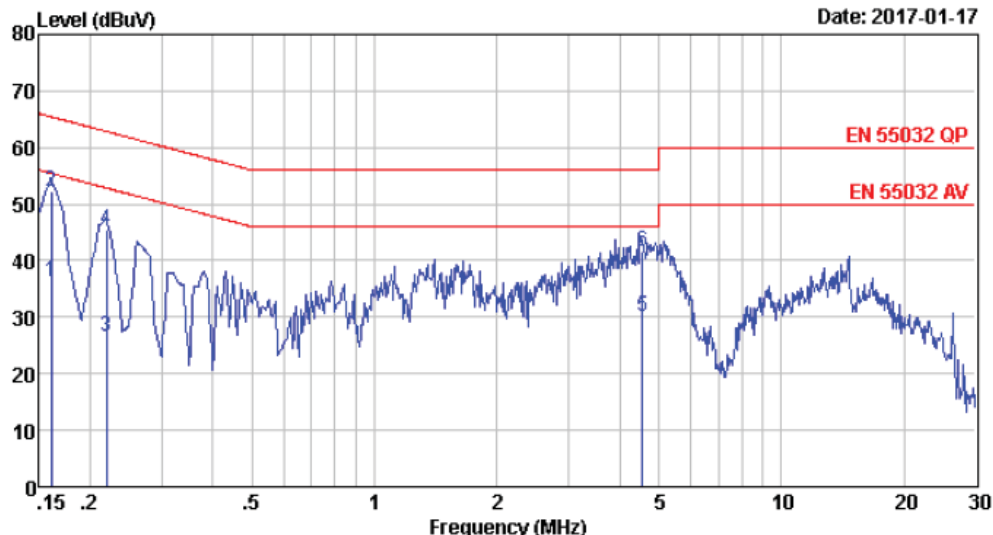
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.16	9.61	9.69	23.00	42.30	55.30	13.00	Average
2	0.16	9.61	9.69	36.86	56.16	65.30	9.14	QP
3	0.22	9.62	9.84	21.14	40.60	52.96	12.36	Average
4	0.22	9.62	9.84	33.78	53.24	62.96	9.72	QP
5	0.27	9.62	9.92	16.86	36.40	51.25	14.85	Average
6	0.27	9.62	9.92	29.95	49.49	61.25	11.76	QP
7	14.59	10.09	10.12	20.89	41.10	50.00	8.90	Average
8	14.59	10.09	10.12	29.63	49.84	60.00	10.16	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 211

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Disturbance Power Shield Room Data no. : 211
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12CB-050200
 Test Mode : Full Load(Output:5V/2A)

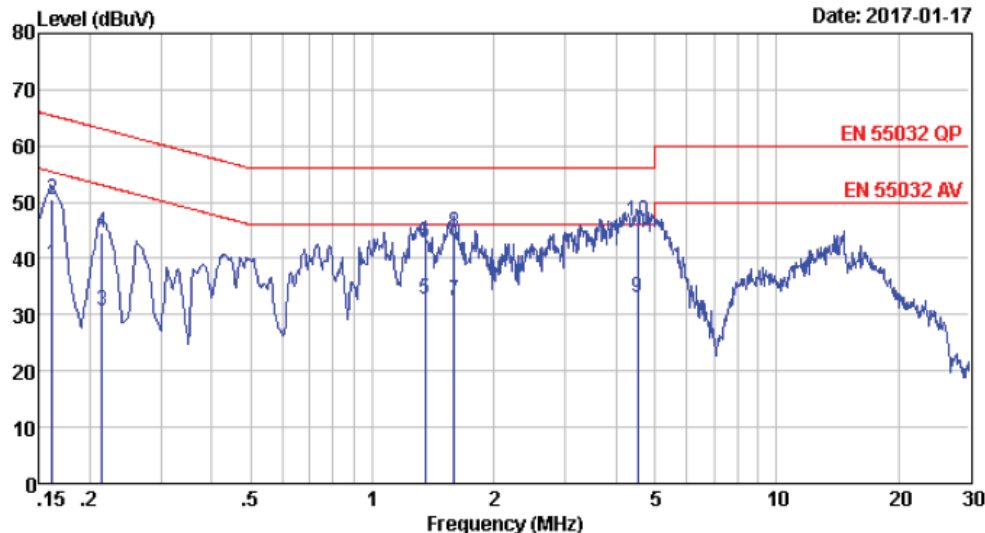
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.61	9.81	16.88	36.30	55.43	19.13	Average
2	0.16	9.61	9.81	32.81	52.23	65.43	13.20	QP
3	0.22	9.61	9.80	7.19	26.60	52.83	26.23	Average
4	0.22	9.61	9.80	26.17	45.58	62.83	17.25	QP
5	4.55	9.65	9.85	10.60	30.10	46.00	15.90	Average
6	4.55	9.65	9.85	22.02	41.52	56.00	14.48	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 213

File: \\EST-CE\\test data\\2017\\DI\\备份\\DI\\WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Disturbance Power Shield Room Data no. : 213
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12CB-050200
 Test Mode : Full Load(Output:5V/2A)

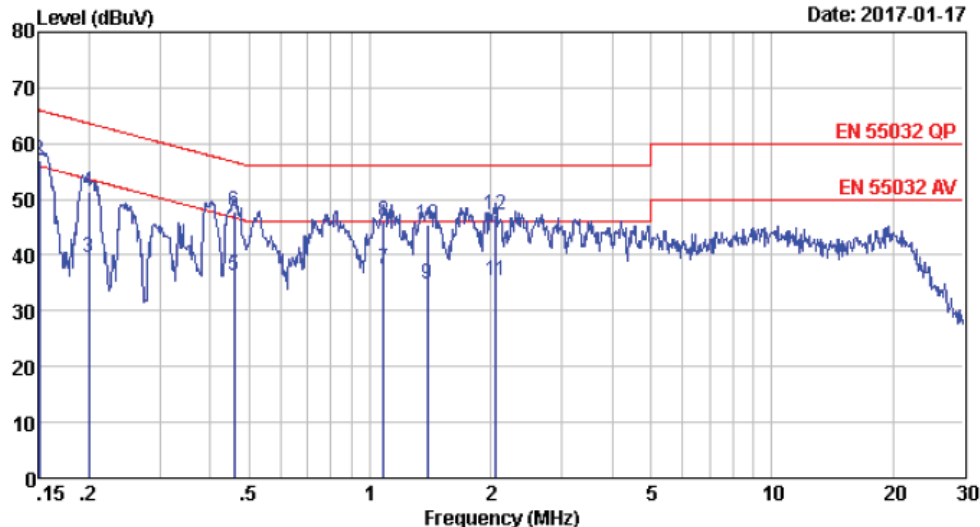
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.61	9.69	19.60	38.90	55.38	16.48	Average
2	0.16	9.61	9.69	31.15	50.45	65.38	14.93	QP
3	0.21	9.62	9.84	11.14	30.60	53.05	22.45	Average
4	0.21	9.62	9.84	25.24	44.70	63.05	18.35	QP
5	1.35	9.77	9.95	13.18	32.90	46.00	13.10	Average
6	1.35	9.77	9.95	22.99	42.71	56.00	13.29	QP
7	1.59	9.79	9.95	12.66	32.40	46.00	13.60	Average
8	1.59	9.79	9.95	24.69	44.43	56.00	11.57	QP
9	4.53	9.90	10.00	13.20	33.10	46.00	12.90	Average
10	4.53	9.90	10.00	26.60	46.50	56.00	9.50	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 215

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Shield Room Data no. : 215
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12CB-12 120100
 Test Mode : Full Load(Output:12V/1A)

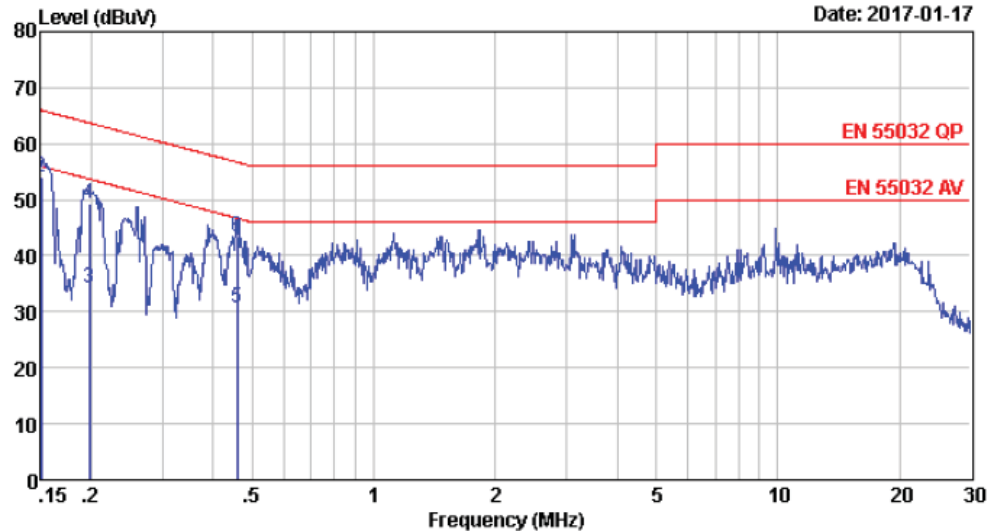
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.61	9.69	27.00	46.30	56.00	9.70	Average
2	0.15	9.61	9.69	37.61	56.91	66.00	9.09	QP
3	0.20	9.62	9.77	20.21	39.60	53.62	14.02	Average
4	0.20	9.62	9.77	31.84	51.23	63.62	12.39	QP
5	0.46	9.65	9.92	16.63	36.20	46.71	10.51	Average
6	0.46	9.65	9.92	28.24	47.81	56.71	8.90	QP
7	1.08	9.74	9.94	17.72	37.40	46.00	8.60	Average
8	1.08	9.74	9.94	26.37	46.05	56.00	9.95	QP
9	1.39	9.77	9.95	14.98	34.70	46.00	11.30	Average
10	1.39	9.77	9.95	25.76	45.48	56.00	10.52	QP
11	2.05	9.82	9.97	15.61	35.40	46.00	10.60	Average
12	2.05	9.82	9.97	27.37	47.16	56.00	8.84	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 217

File: \\EST-CE\test data\2017\01\备份\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Shield Room Data no. : 217
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12CB-12 120100
 Test Mode : Full Load(Output:12V/1A)

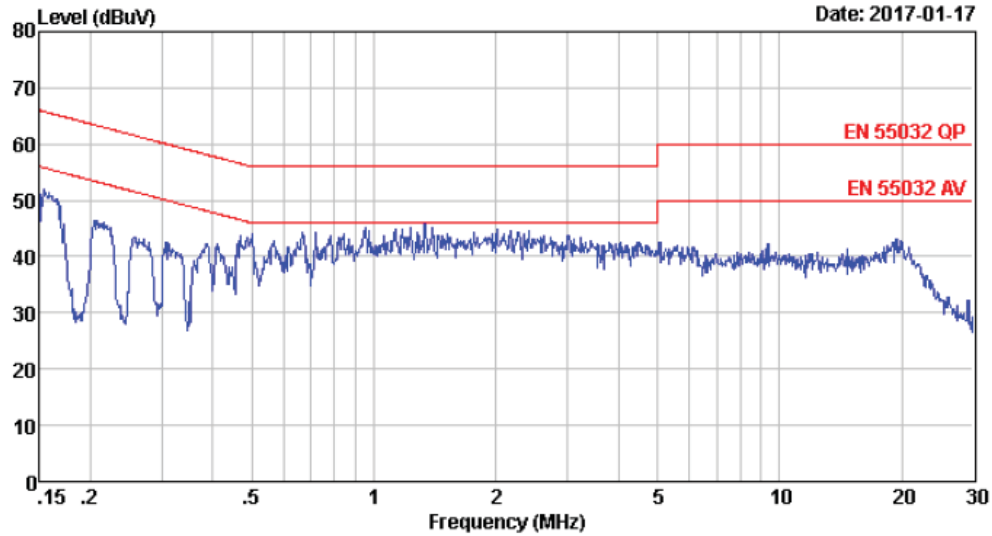
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.61	9.81	20.68	40.10	56.00	15.90	Average
2	0.15	9.61	9.81	34.57	53.99	66.00	12.01	QP
3	0.20	9.61	9.80	14.89	34.30	53.71	19.41	Average
4	0.20	9.61	9.80	30.02	49.43	63.71	14.28	QP
5	0.46	9.61	9.81	11.18	30.60	46.71	16.11	Average
6	0.46	9.61	9.81	23.83	43.25	56.71	13.46	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 219

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

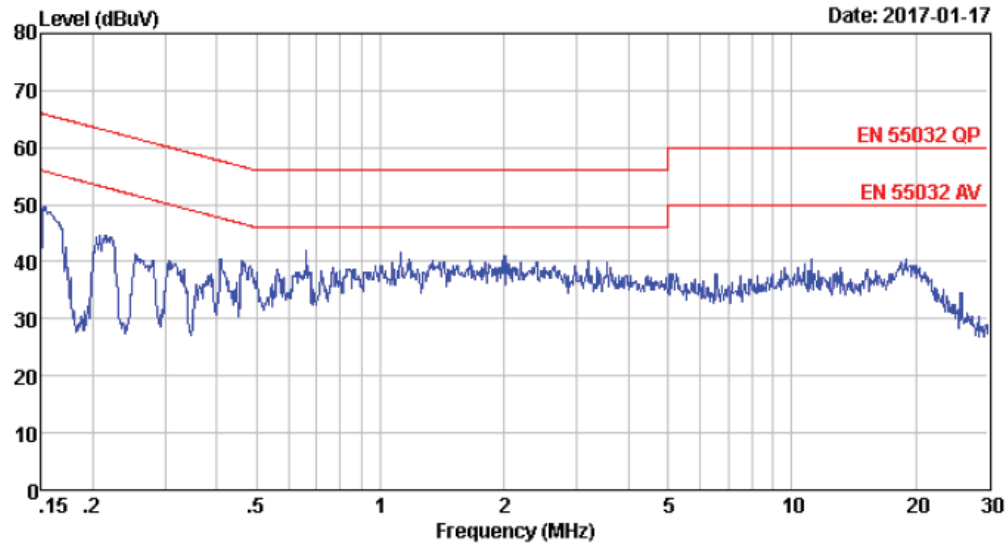


Site no : 844 Shield Room Data no. : 219
Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12CB-12 120100
Test Mode : Full Load(Output:12V/1A)

Data: 221

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

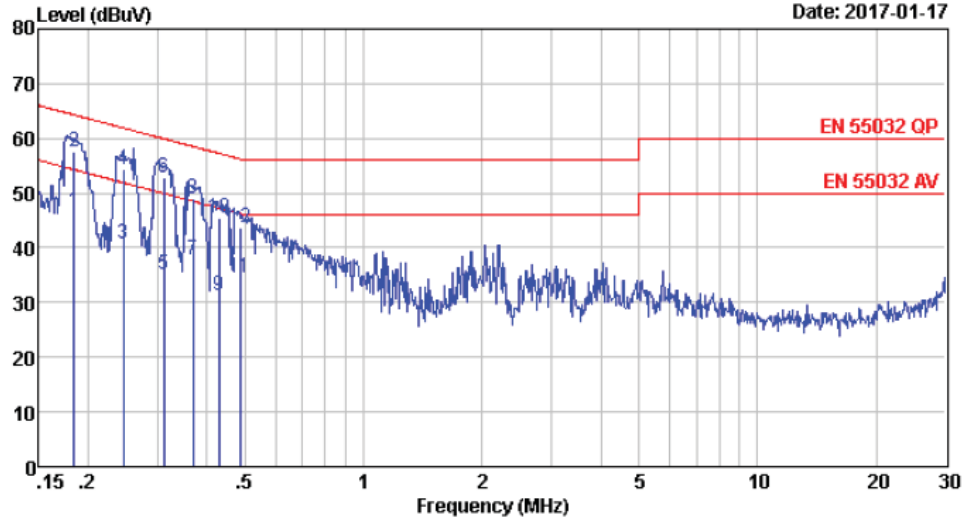


Site no : 844 Shield Room Data no. : 221
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12CB-12 120100
Test Mode : Full Load(Output:12V/1A)

Data: 223

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Shield Room Data no. : 223
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12PFA-09 FEU 120100A
 Test Mode : Full Load(Output:12V/1A)

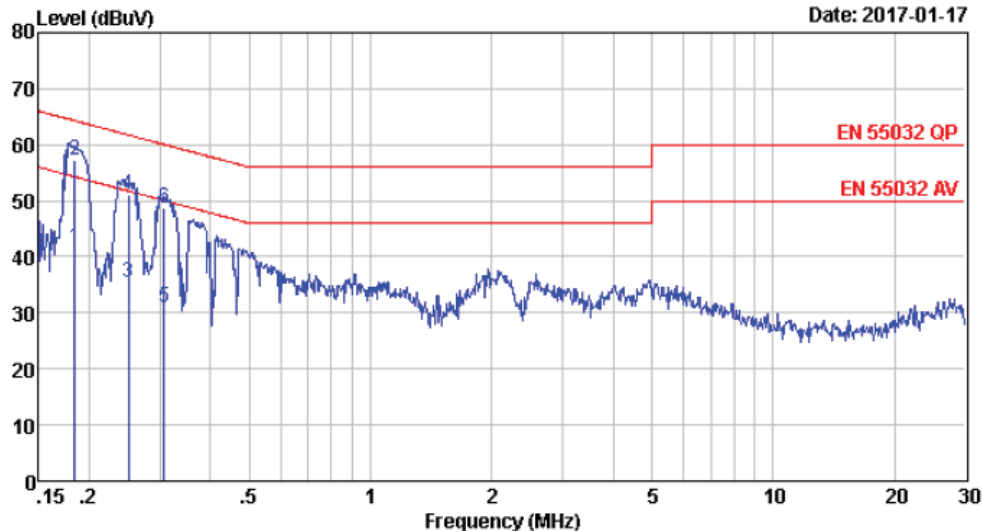
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	9.62	9.77	27.31	46.70	54.28	7.58	Average
2	0.18	9.62	9.77	38.32	57.71	64.28	6.57	QP
3	0.25	9.62	9.92	21.06	40.60	51.91	11.31	Average
4	0.25	9.62	9.92	34.86	54.40	61.91	7.51	QP
5	0.31	9.63	9.92	15.55	35.10	49.93	14.83	Average
6	0.31	9.63	9.92	33.34	52.89	59.93	7.04	QP
7	0.37	9.64	9.92	18.14	37.70	48.52	10.82	Average
8	0.37	9.64	9.92	29.56	49.12	58.52	9.40	QP
9	0.43	9.64	9.92	11.84	31.40	47.24	15.84	Average
10	0.43	9.64	9.92	25.84	45.40	57.24	11.84	QP
11	0.49	9.65	9.92	14.93	34.50	46.23	11.73	Average
12	0.49	9.65	9.92	24.24	43.81	56.23	12.42	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 225

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Shield Room Data no. : 225
 Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12PFA-09 FEU 120100A
 Test Mode : Full Load(Output:12V/1A)

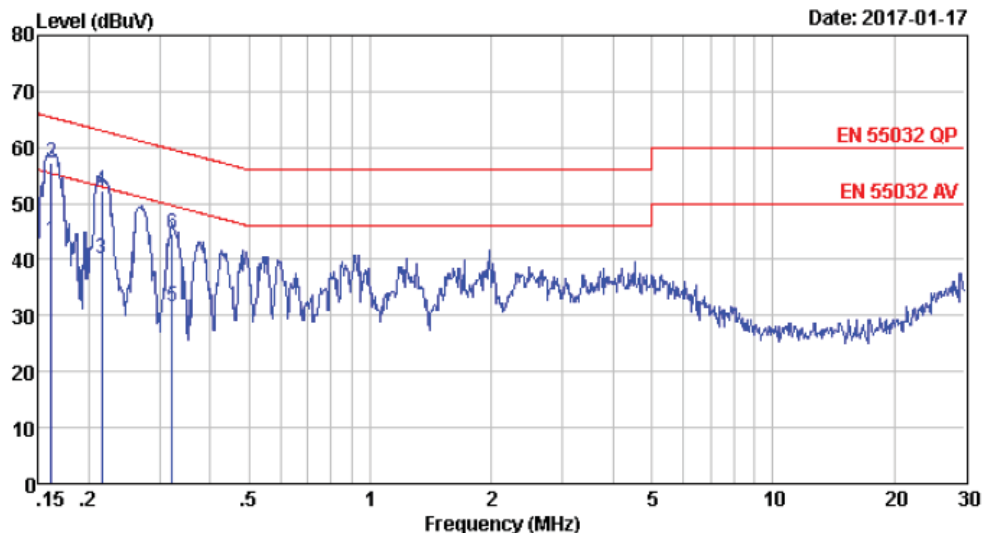
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	9.61	9.80	22.19	41.60	54.28	12.68	Average
2	0.18	9.61	9.80	37.90	57.31	64.28	6.97	QP
3	0.25	9.61	9.82	15.87	35.30	51.73	16.43	Average
4	0.25	9.61	9.82	31.59	51.02	61.73	10.71	QP
5	0.31	9.61	9.83	11.66	31.10	50.06	18.96	Average
6	0.31	9.61	9.83	29.34	48.78	60.06	11.28	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 227

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Shield Room Data no. : 227
 Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFA-09 FEU 120100A
 Test Mode : Full Load(Output:12V/1A)

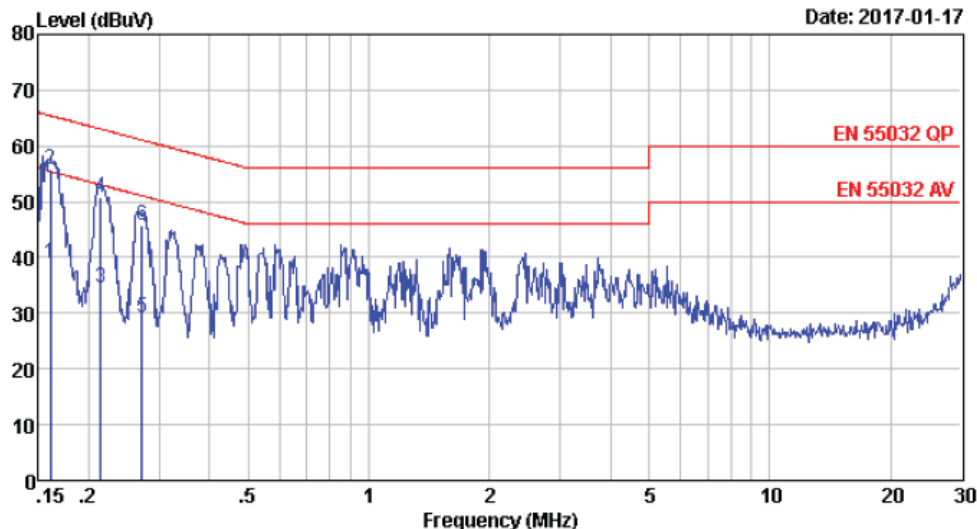
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.61	9.81	23.98	43.40	55.38	11.98	Average
2	0.16	9.61	9.81	37.71	57.13	65.38	8.25	QP
3	0.22	9.61	9.80	20.79	40.20	53.01	12.81	Average
4	0.22	9.61	9.80	32.70	52.11	63.01	10.90	QP
5	0.32	9.61	9.83	12.26	31.70	49.66	17.96	Average
6	0.32	9.61	9.83	25.13	44.57	59.66	15.09	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 229

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17



Site no : 844 Shield Room Data no. : 229
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : EN 55032 QP
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFA-09 FEU 120100A
 Test Mode : Full Load(Output:12V/1A)

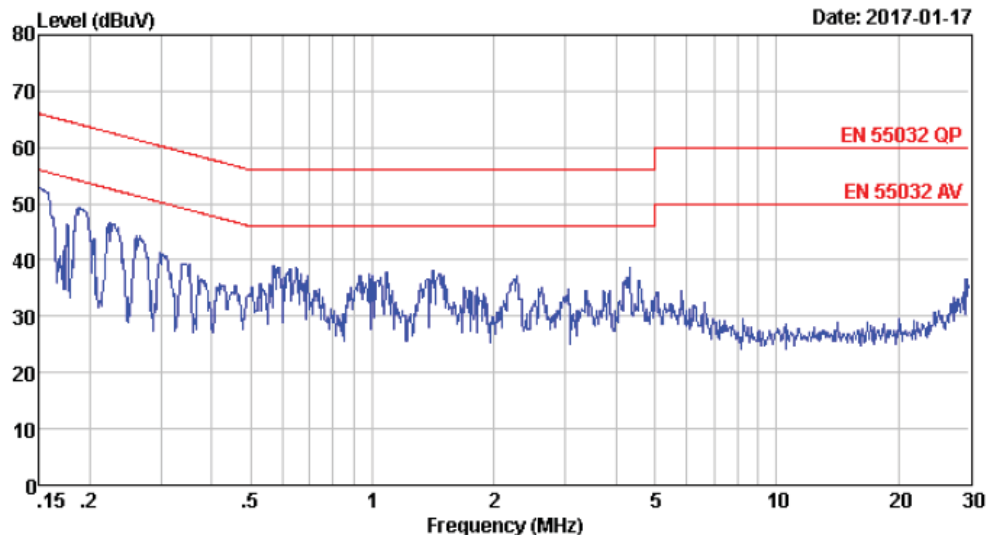
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.16	9.49	9.81	19.60	38.90	55.43	16.53	Average
2	0.16	9.49	9.81	36.41	55.71	65.43	9.72	QP
3	0.21	9.60	9.80	15.20	34.60	53.05	18.45	Average
4	0.21	9.60	9.80	31.38	50.78	63.05	12.27	QP
5	0.27	9.60	9.83	9.87	29.30	51.07	21.77	Average
6	0.27	9.60	9.83	26.28	45.71	61.07	15.36	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 231

File: \\EST-CE\\test data\\2017\\D\\备份\\DI\\WEN-20170414.EM6 (1047)

Date: 2017-01-17

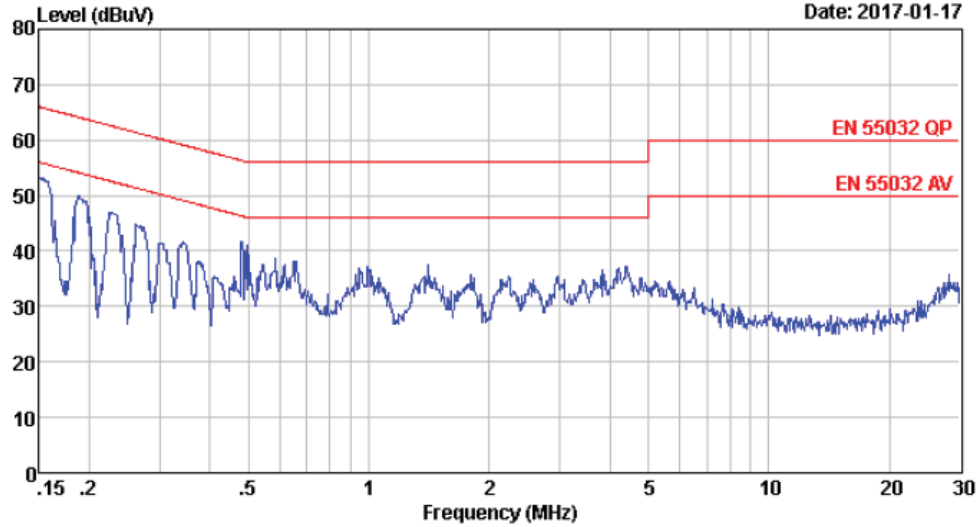


Site no : 844 Shield Room Data no. : 231
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFA-09 FEU 120100A
Test Mode : Half Load(Output:12V/0.5A)

Data: 233

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

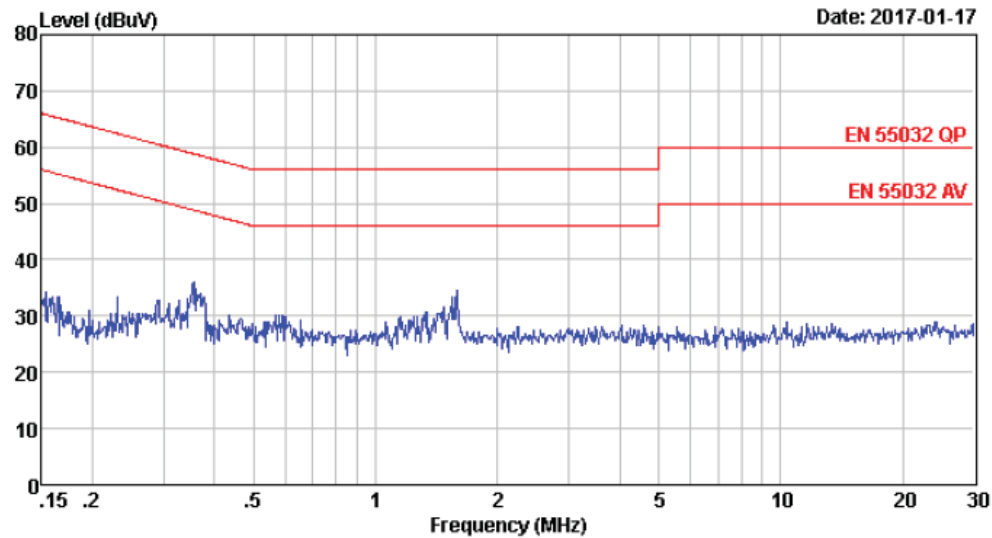


Site no : 844 Shield Room Data no. : 233
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFA-09 FEU 120100A
Test Mode : Half Load(Output:12V/0.5A)

Data: 235

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

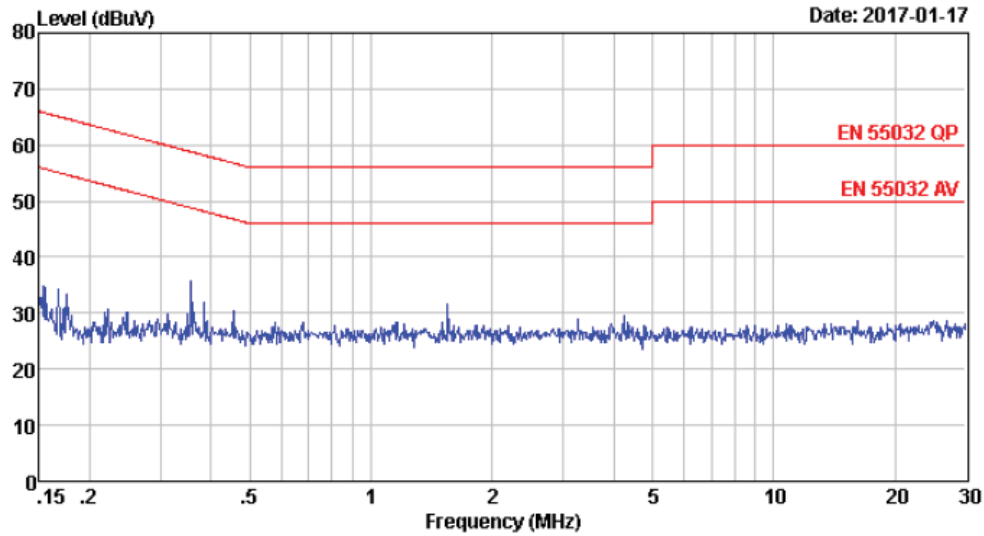


Site no : 844 Shield Room Data no. : 235
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFA-09 FEU 120100A
Test Mode : No Load

Data: 237

File: \\EST-CE\\test data\\2017\\D\\备份\\DI WEN-20170414.EM6 (1047)

Date: 2017-01-17

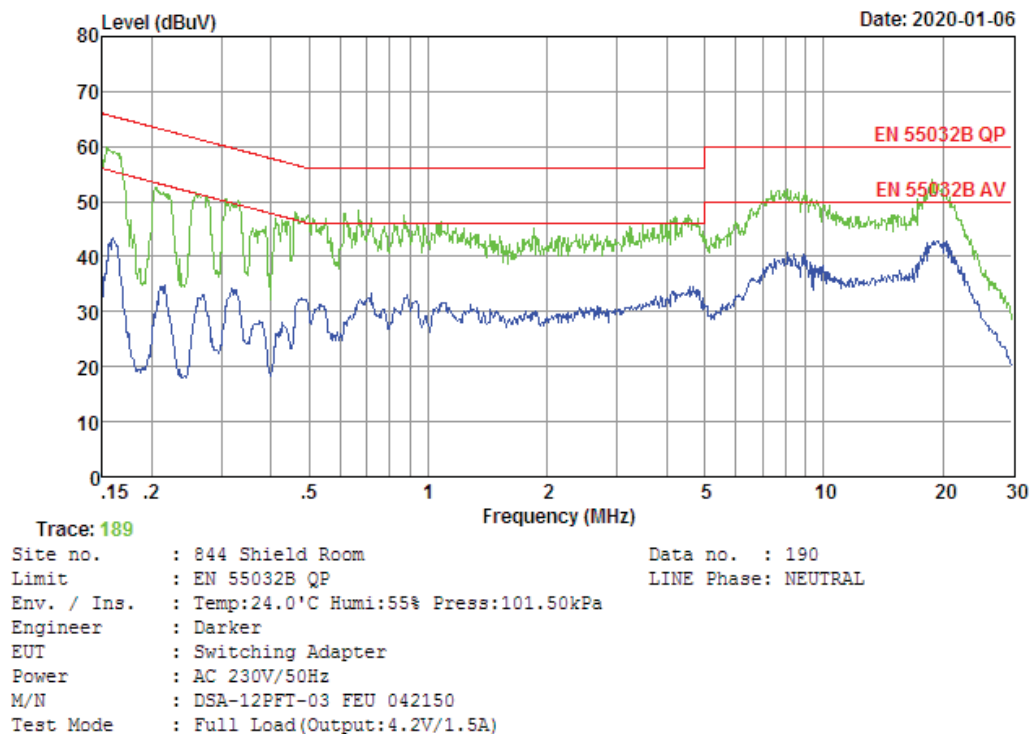


Site no : 844 Shield Room Data no. : 237
Env. / Ins. : Temp: 25.3°C Humi: 58% Press: 101.50kPa LINE Phase : NEUTRAL
Limit : EN 55032 QP
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFA-09 FEU 120100A
Test Mode : No Load

Data: 190

File: \\Emc-ce-1\Test data\2020\DI\DVE.EM6 (220)

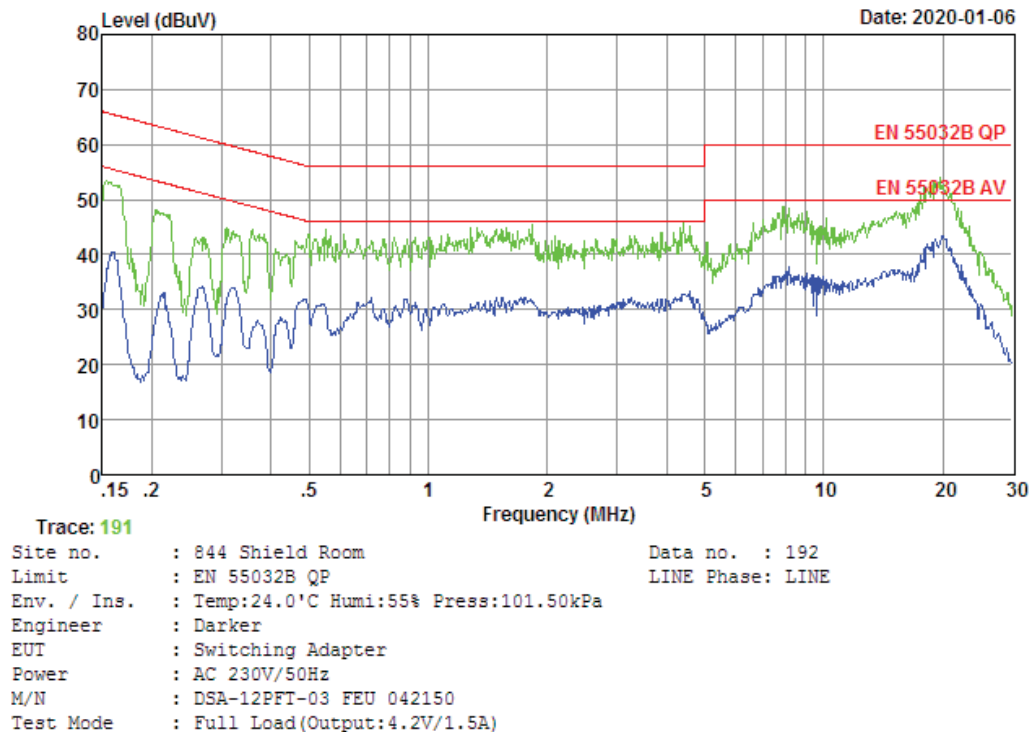
Date: 2020-01-06



Data: 192

File: \\Emc-ce-1\Test data\2020\DI\DVE.EM6 (220)

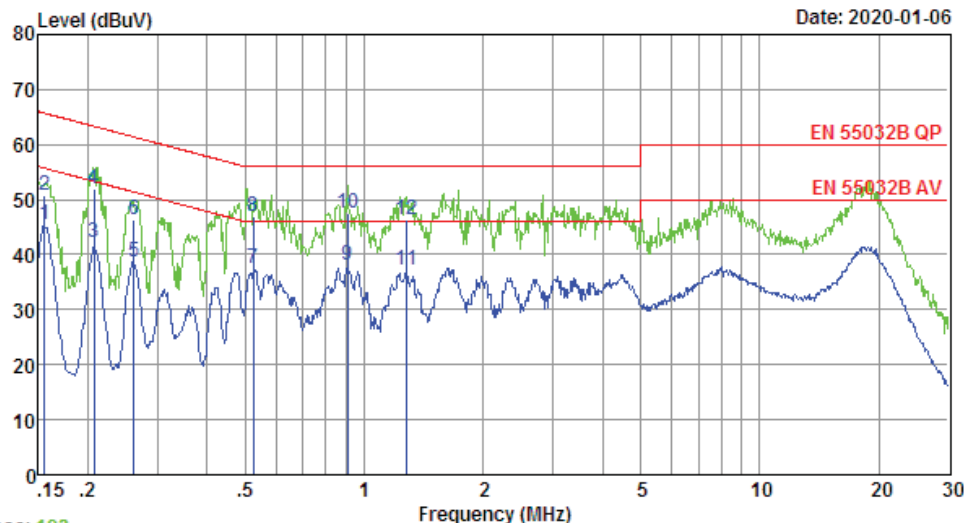
Date: 2020-01-06



Data: 194

File: \\Emc-ce-1\Test data\2020\DI\DI\VE.EM6 (220)

Date: 2020-01-06



Trace: 193

Site no. : 844 Shield Room
Limit : EN 55032B QP
Env. / Ins. : Temp:24.0°C Humi:55% Press:101.50kPa
Engineer : Darker
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFT-03 FEU 042150
Test Mode : Full Load (Output:4.2V/1.5A)

Data no. : 194

LINE Phase: LINE

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.79	9.69	25.93	45.41	55.69	10.28	Average
2	0.16	9.79	9.69	31.26	50.74	65.69	14.95	QP
3	0.21	9.75	9.84	22.50	42.09	53.32	11.23	Average
4	0.21	9.75	9.84	32.39	51.98	63.32	11.34	QP
5	0.26	9.70	9.92	19.11	38.73	51.38	12.65	Average
6	0.26	9.70	9.92	26.84	46.46	61.38	14.92	QP
7	0.52	9.93	9.92	17.60	37.45	46.00	8.55	Average
8	0.52	9.93	9.92	27.21	47.06	56.00	8.94	QP
9	0.91	9.79	9.94	18.26	37.99	46.00	8.01	Average
10	0.91	9.79	9.94	27.75	47.48	56.00	8.52	QP
11	1.28	9.79	9.94	17.56	37.29	46.00	8.71	Average
12	1.28	9.79	9.94	26.57	46.30	56.00	9.70	QP

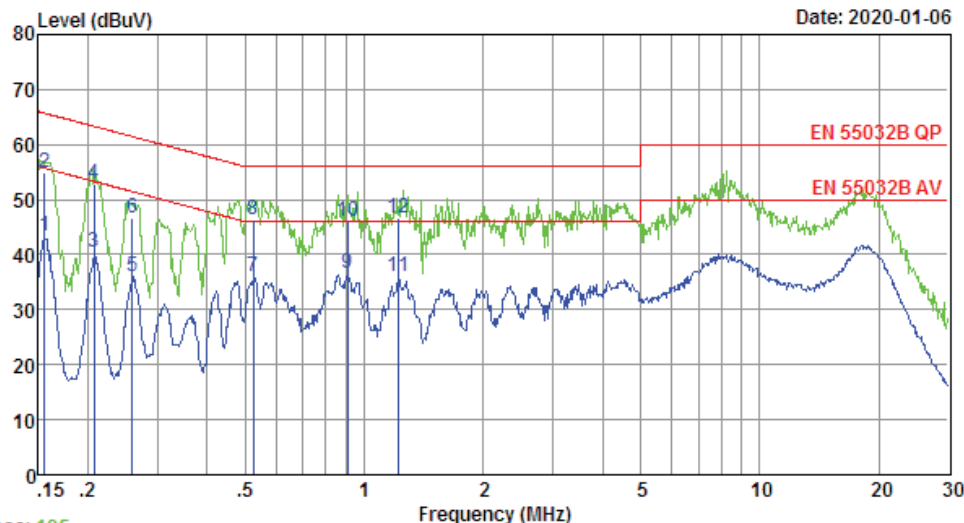
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Data: 196

File: \\Emc-ce-1\Test data\2020\DI\DI\VE.EM6 (220)

Date: 2020-01-06



Trace: 195

Site no. : 844 Shield Room
Limit : EN 55032B QP
Env. / Ins. : Temp:24.0°C Humi:55% Press:101.50kPa
Engineer : Darker
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFT-03 FEU 042150
Test Mode : Full Load (Output:4.2V/1.5A)

Data no. : 196
LINE Phase: NEUTRAL

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.62	9.69	23.99	43.30	55.69	12.39	Average
2	0.16	9.62	9.69	35.62	54.93	65.69	10.76	QP
3	0.21	9.70	9.84	20.88	40.42	53.32	12.90	Average
4	0.21	9.70	9.84	33.18	52.72	63.32	10.60	QP
5	0.26	9.71	9.92	16.36	35.99	51.47	15.48	Average
6	0.26	9.71	9.92	26.92	46.55	61.47	14.92	QP
7	0.52	9.78	9.92	16.26	35.96	46.00	10.04	Average
8	0.52	9.78	9.92	26.71	46.41	56.00	9.59	QP
9	0.91	9.69	9.94	16.98	36.61	46.00	9.39	Average
10	0.91	9.69	9.94	26.33	45.96	56.00	10.04	QP
11	1.22	9.67	9.94	16.45	36.06	46.00	9.94	Average
12	1.22	9.67	9.94	27.05	46.66	56.00	9.34	QP

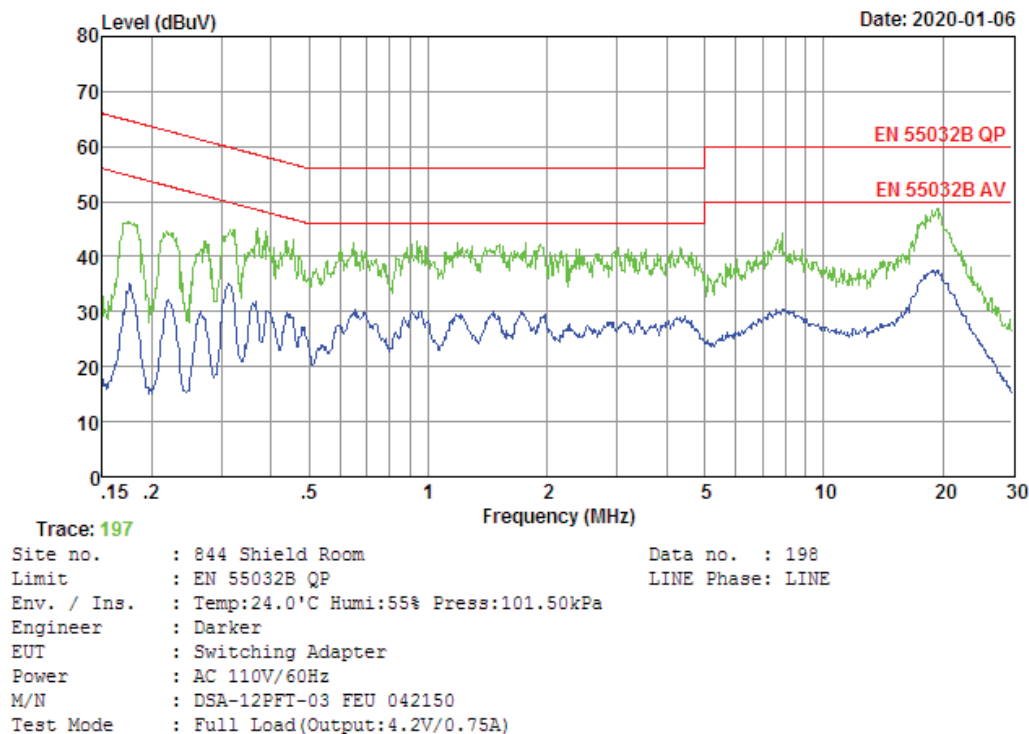
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Data: 198

File: \\Emc-ce-1\Test data\2020\DI\DVE.EM6 (220)

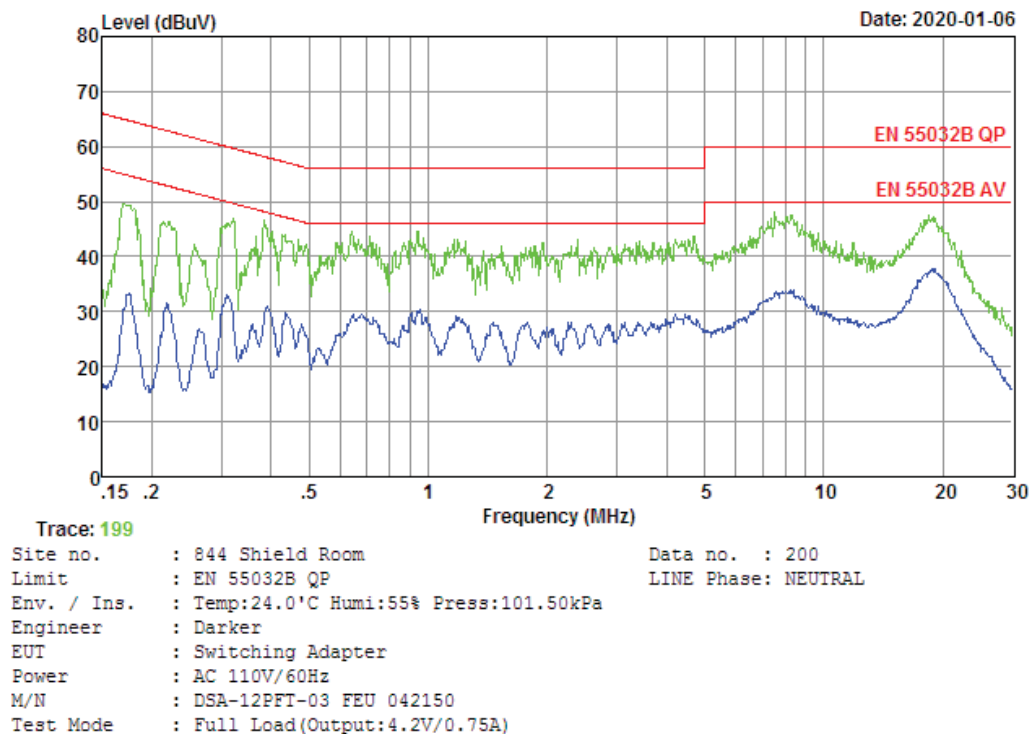
Date: 2020-01-06



Data: 200

File: \\Emc-ce-1\Test data\2020\DI\DVE.EM6 (220)

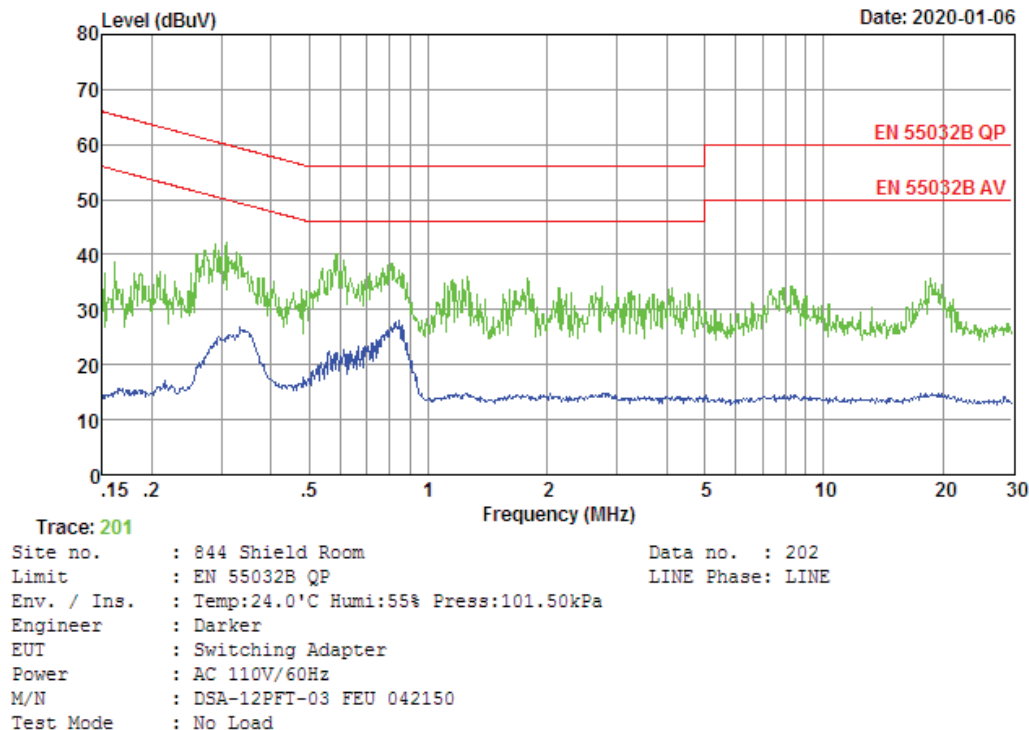
Date: 2020-01-06



Data: 202

File: \\Emc-ce-1\Test data\2020\DI\DVE.EM6 (220)

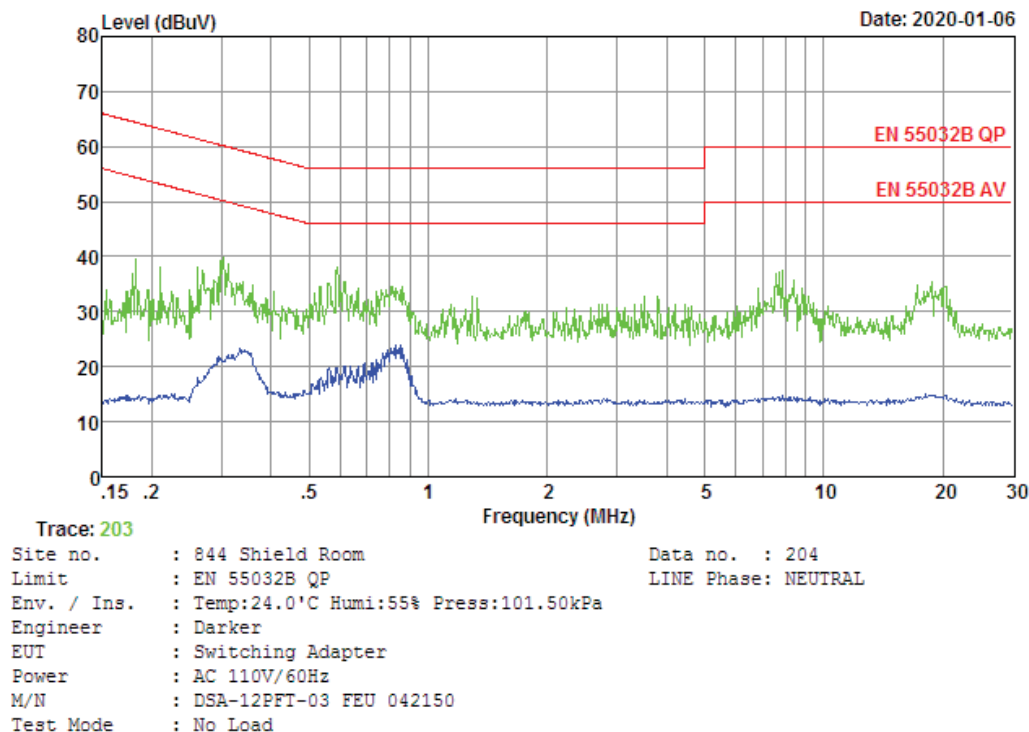
Date: 2020-01-06



Data: 204

File: \\Emc-ce-1\Test data\2020\DI\DVE.EM6 (220)

Date: 2020-01-06



4.2. Radiated Emission Test

RESULT : **Pass**
Test procedure : EN 55032:2015
Frequency range : 30~1000MHz
Test Site : 966 Chamber
Limits : EN 55032:2015 Class B

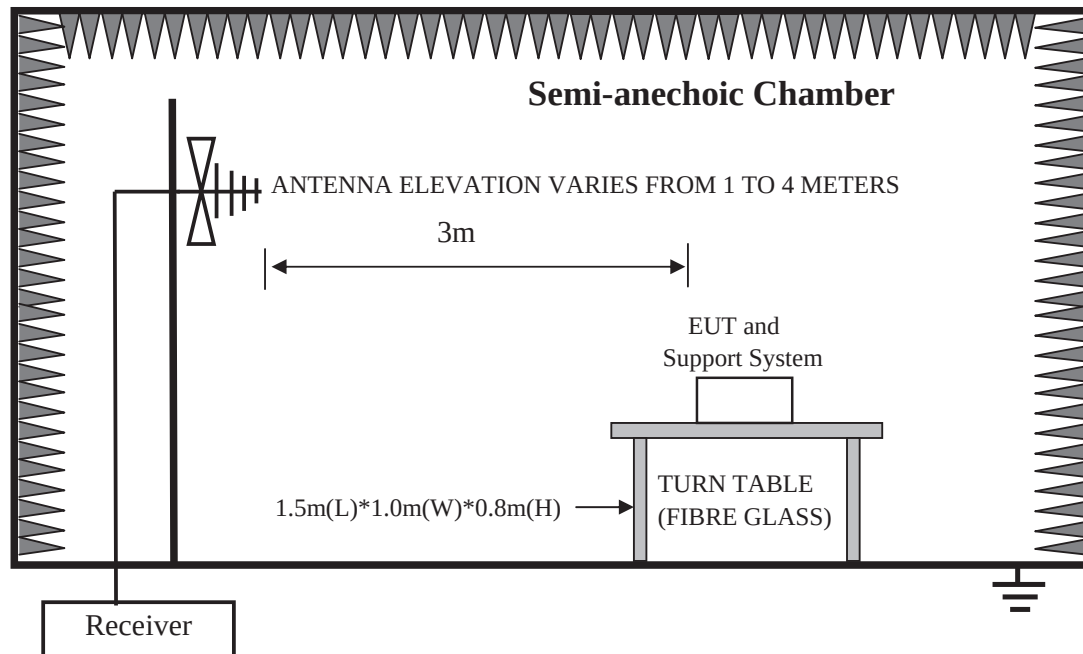
Test Setup

Date of test : Jan. 16, 2017, Jan. 07, 2020
Model No. : DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100,
DSA-12CB-05 050200, DSA-12CB-12 120100,
DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage : AC 230V/50Hz, AC 110V/60Hz
Operation Mode : Full Load, Half Load, No Load

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m distance from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth setting on the test receiver was 120 kHz.



Note: Test uncertainty: ± 4.48 dB (H); ± 4.58 dB (V) at a level of confidence of 95%.

Test Data

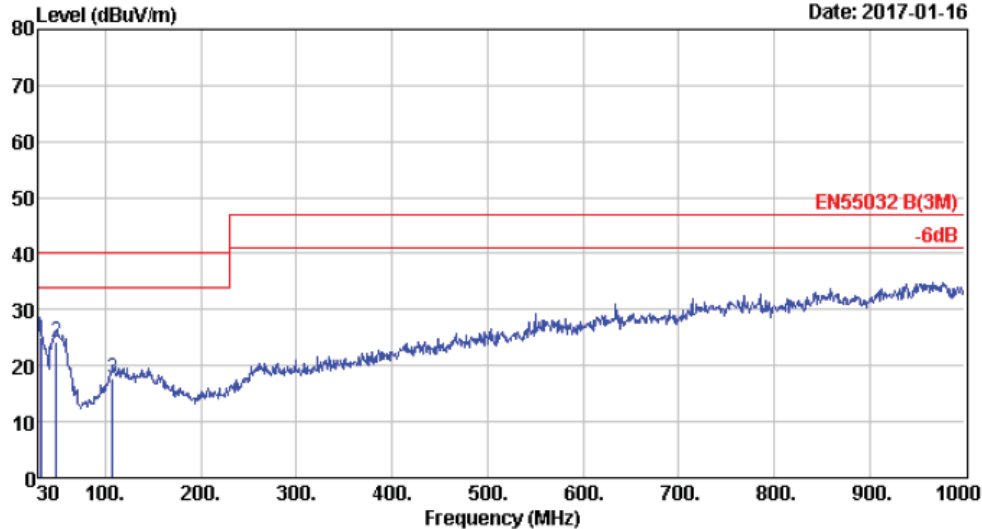
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 17

File: \\EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



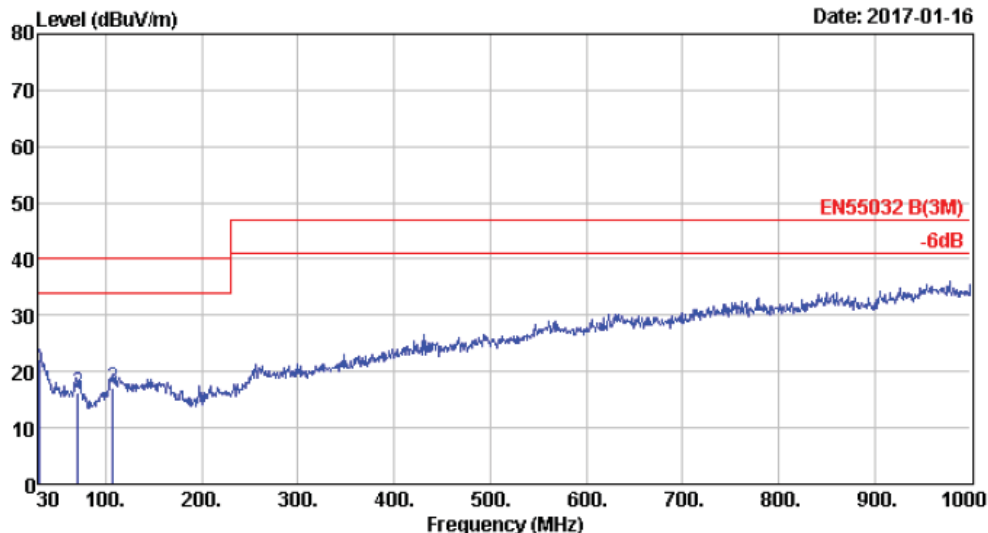
Site no. : 2# 966 chamber Data no. : 17
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PET-05 FEU 050200
Test Mode : Full Load(Output:5V/2A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.940	17.52	0.95	6.59	25.06	40.00	14.94	QP
2	48.430	8.65	1.30	14.30	24.25	40.00	15.75	QP
3	107.600	10.26	1.50	6.10	17.86	40.00	22.14	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 18 File: \\EMC-966-2\\966-2 test data\\2017\\D\\DI WEN\\EM6 (652)

Date: 2017-01-16



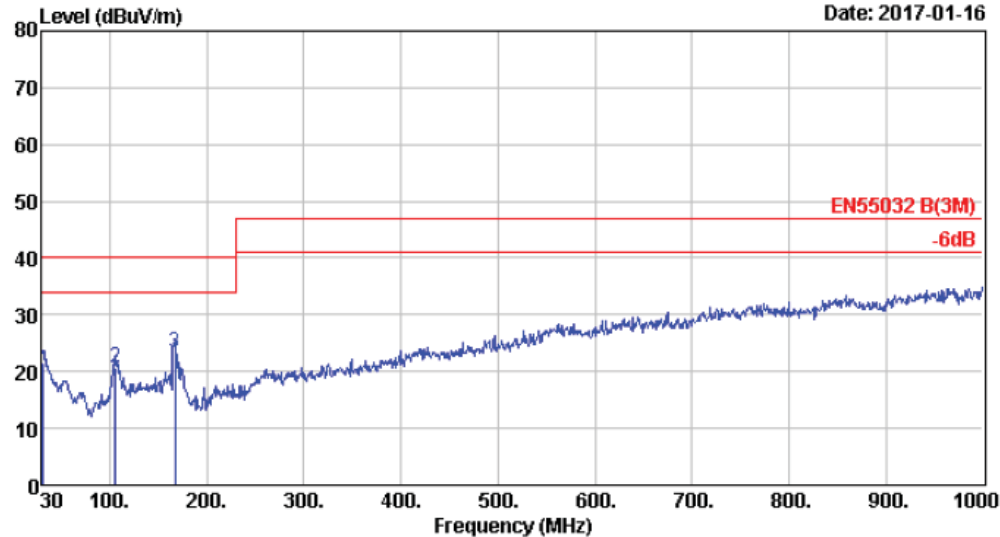
Site no. : 2# 966 chamber Data no. : 18
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PET-05 FEU 050200
 Test Mode : Full Load(Output:5V/2A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.90	22.03	40.00	17.97	QP
2	70.740	5.69	0.76	9.85	16.30	40.00	23.70	QP
3	107.600	10.26	1.50	5.43	17.19	40.00	22.81	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 19 File: \\EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 19
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PET-05 FEU 050200
Test Mode : Full Load(Output:5V/2A)

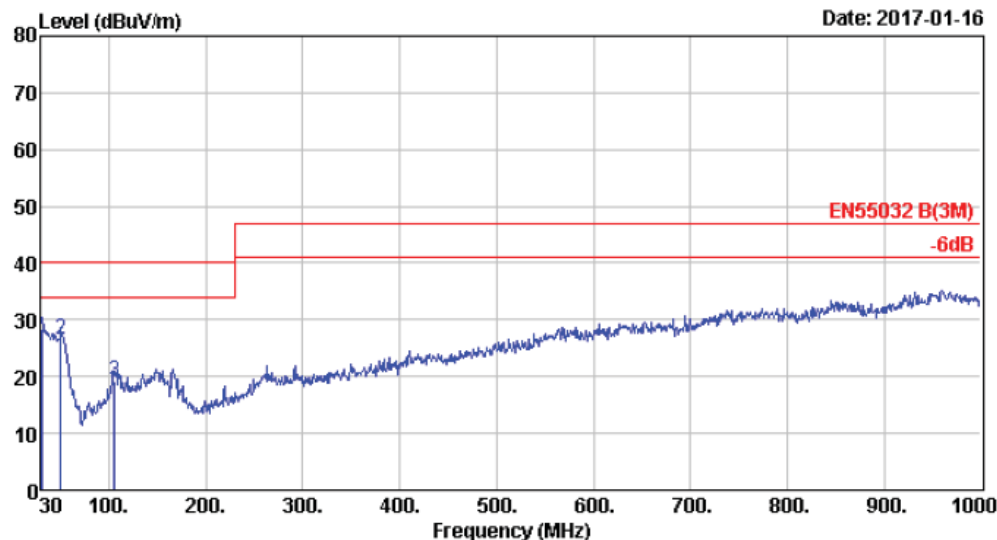
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.43	21.56	40.00	18.44	QP
2	105.660	10.11	1.50	9.07	20.68	40.00	19.32	QP
3	166.770	9.57	1.92	11.92	23.41	40.00	16.59	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 20

File: \EMC-966-2\966-2 test data\2017\DI WEN.EM6 (652)

Date: 2017-01-16



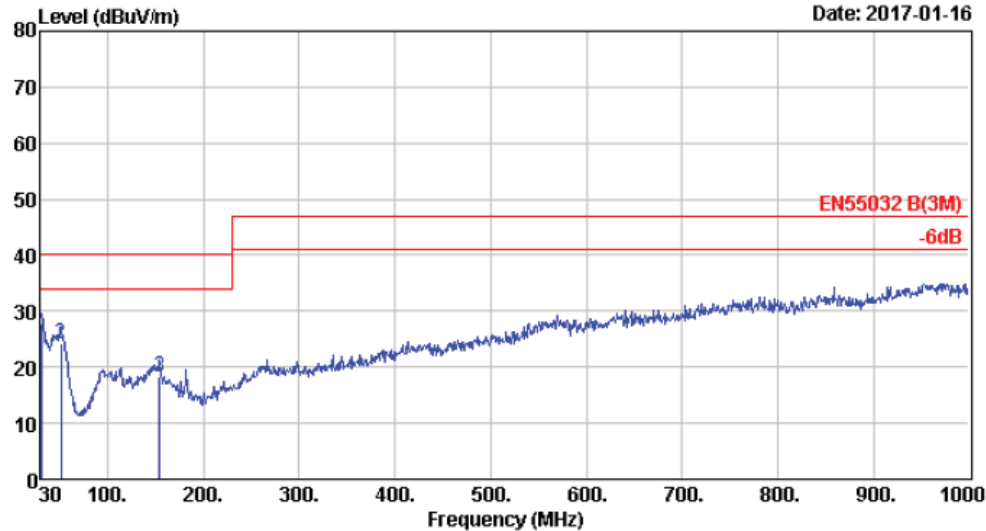
Site no. : 2# 966 chamber Data no. : 20
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12PET-05 FEU 050200
 Test Mode : Full Load(Output:5V/2A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	9.32	28.45	40.00	11.55	QP
2	50.370	7.57	1.28	17.66	26.51	40.00	13.49	QP
3	105.660	10.11	1.50	7.48	19.09	40.00	20.91	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 21 File: \\EMC-966-2\\966-2 test data\\2017\\D\\DI WEN\\EM6 (652)

Date: 2017-01-16

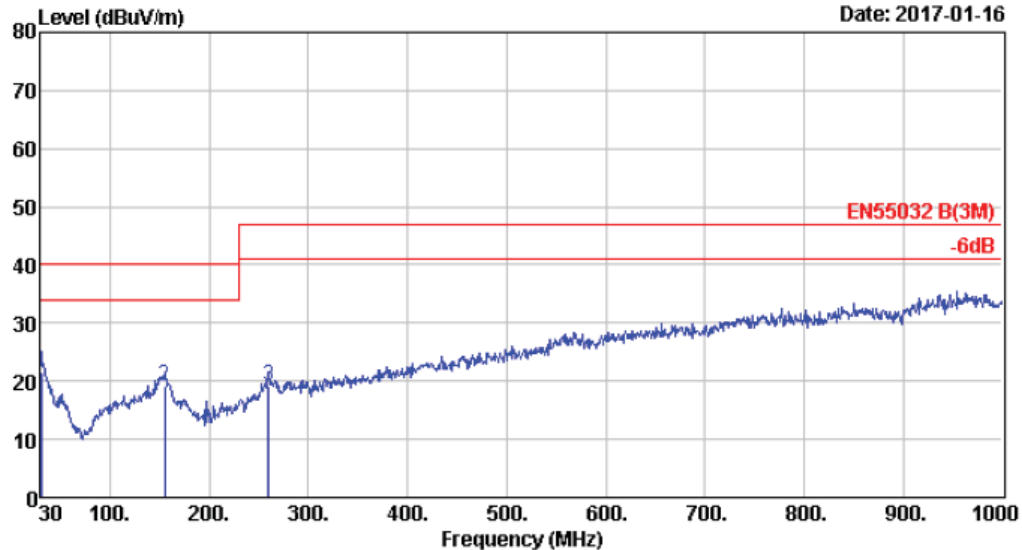


Site no. : 2# 966 chamber Data no. : 21
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFT-12 FEU 120100
Test Mode : Full Load(Output:12V/1A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	8.52	27.65	40.00	12.35	QP
2	51.340	7.11	1.38	15.71	24.20	40.00	15.80	QP
3	154.160	10.50	1.82	6.06	18.38	40.00	21.62	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 22 File: \\EMC-966-2\966-2 test data\2017\DI WEN.EM6 (652)



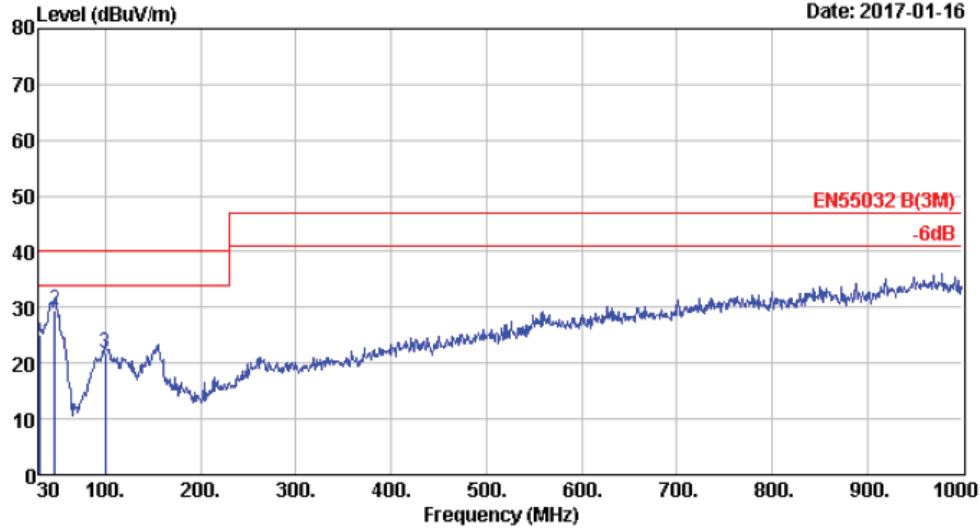
Site no. : 2# 966 chamber Data no. : 22
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12PFT-12 FEU 120100
 Test Mode : Full Load(Output:12V/1A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.970	17.81	1.00	2.82	21.63	40.00	18.37	QP
2	155.130	10.44	1.83	6.90	19.17	40.00	20.83	QP
3	259.890	13.40	2.37	3.38	19.15	47.00	27.85	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 23 File: \EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



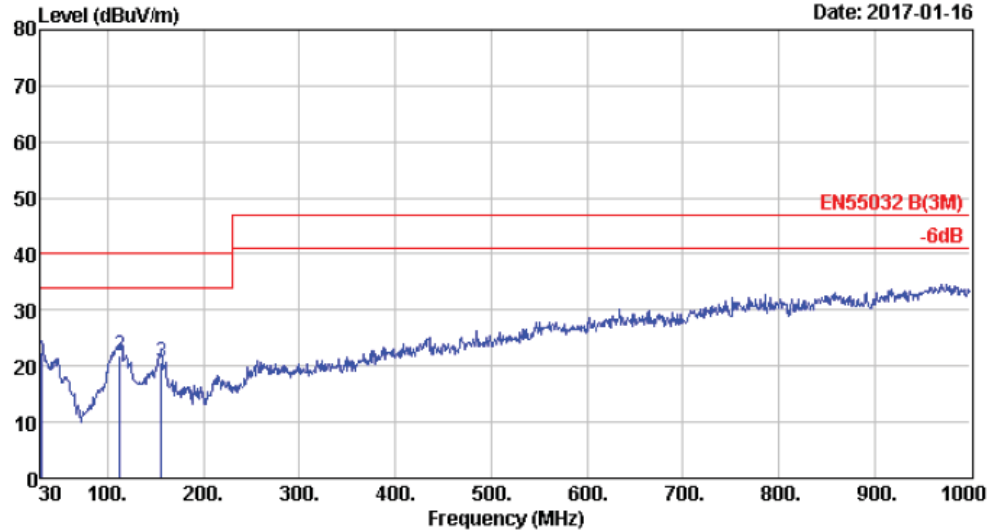
Site no. : 2# 966 chamber Data no. : 23
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFT-12 FEU 120100
Test Mode : Full Load(Output:12V/1A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	6.03	25.16	40.00	14.84	QP
2	46.490	9.40	1.34	18.89	29.63	40.00	10.37	QP
3	99.840	9.56	1.63	10.63	21.82	40.00	18.18	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 24 File: \EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 24
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFT-12 FEU 120100
 Test Mode : Full Load(Output:12V/1A)

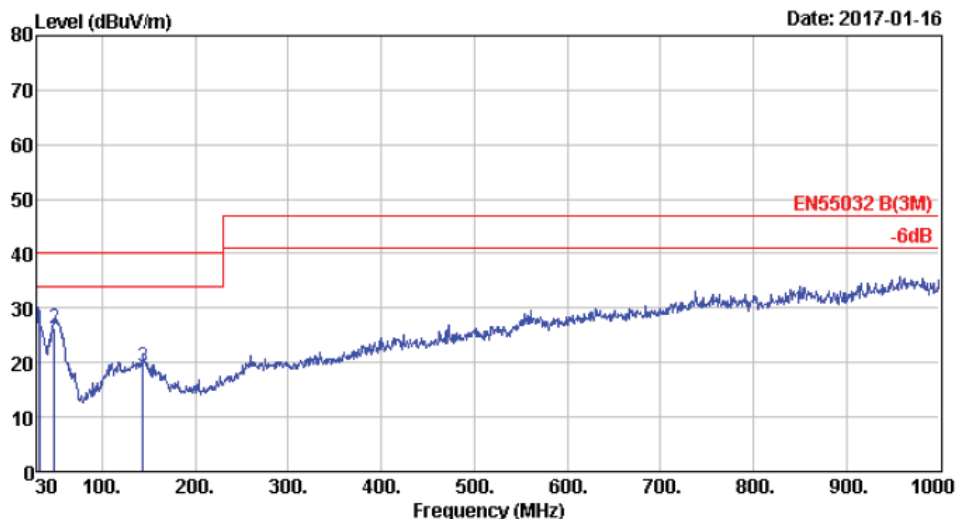
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	3.43	22.56	40.00	17.44	QP
2	112.450	10.69	1.51	9.66	21.86	40.00	18.14	QP
3	156.100	10.41	1.81	8.39	20.61	40.00	19.39	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 25

File: \\EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 25
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12CB-050200
 Test Mode : Full Load(Output: 5V/2A)

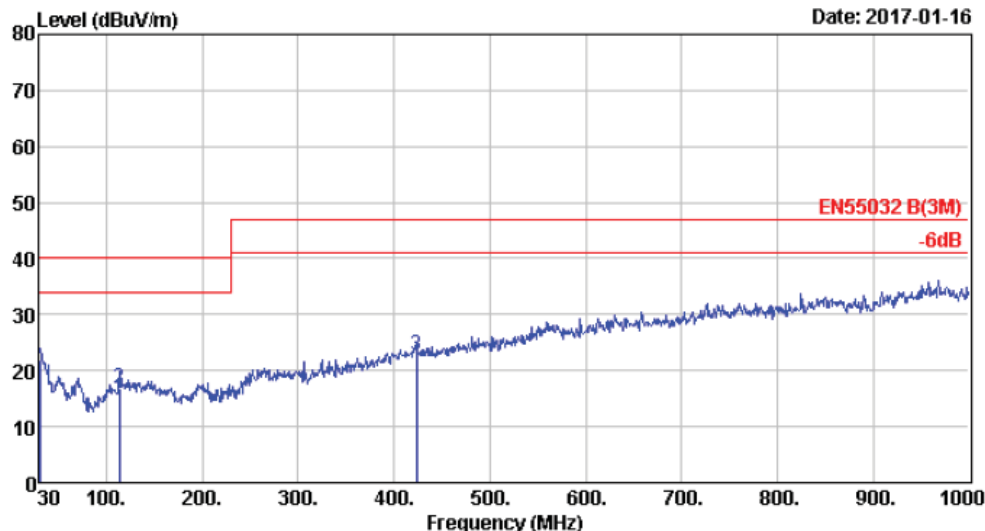
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.940	17.52	0.95	7.98	26.45	40.00	13.55	QP
2	48.430	8.65	1.30	16.20	26.15	40.00	13.85	QP
3	143.490	11.16	1.75	6.24	19.15	40.00	20.85	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 26

File: \\EMC-966-2\\966-2 test data\\2017\\D\\I\\WEN.EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 26
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12CB-050200
 Test Mode : Full Load(Output:5V/2A)

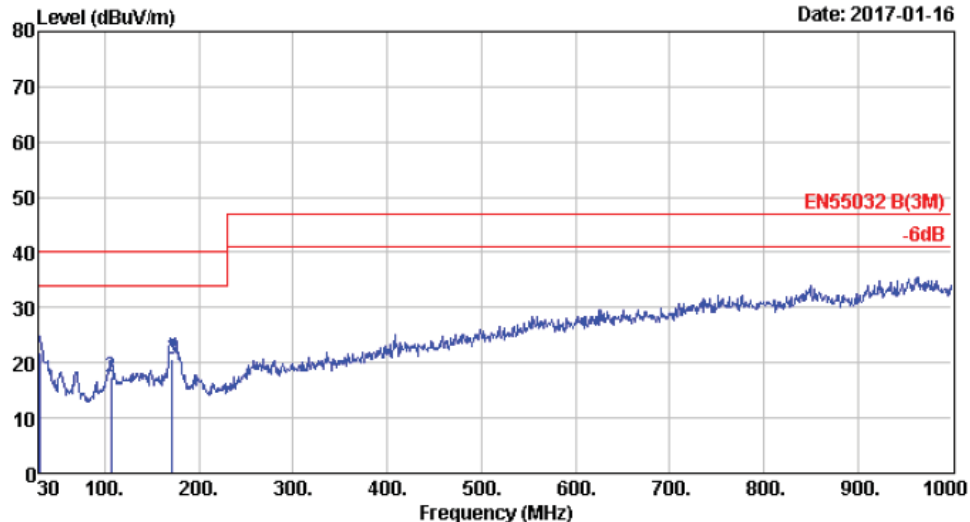
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.86	21.99	40.00	18.01	QP
2	113.420	10.79	1.61	4.31	16.71	40.00	23.29	QP
3	423.820	16.50	3.08	3.19	22.77	47.00	24.23	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 27

File: \EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



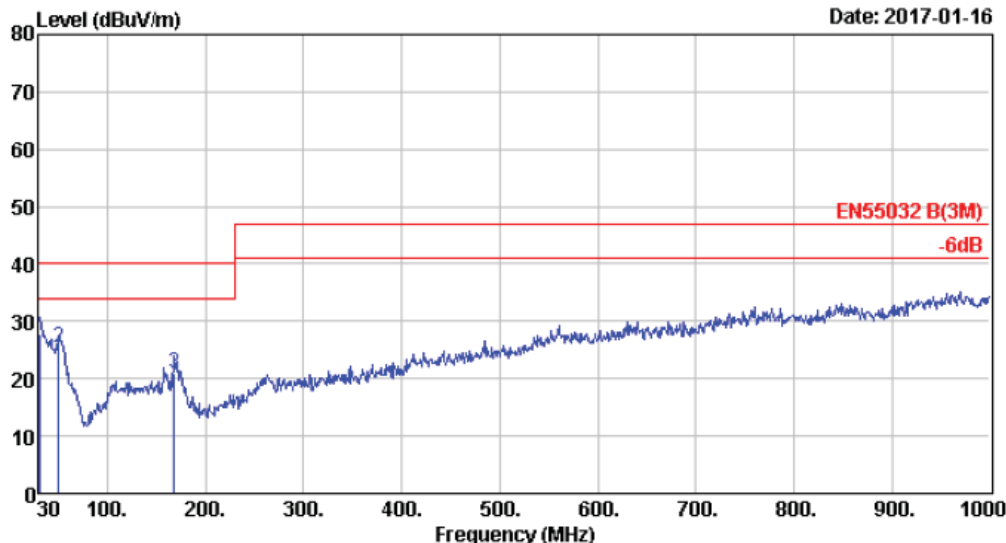
Site no. : 2# 966 chamber Data no. : 27
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12CB-050200
 Test Mode : Full Load(Output:5V/2A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.72	21.85	40.00	18.15	QP
2	106.630	10.18	1.45	5.84	17.47	40.00	22.53	QP
3	171.620	9.17	2.05	9.37	20.59	40.00	19.41	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 28 File: \\EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 28
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12CB-050200
Test Mode : Full Load(Output:5V/2A)

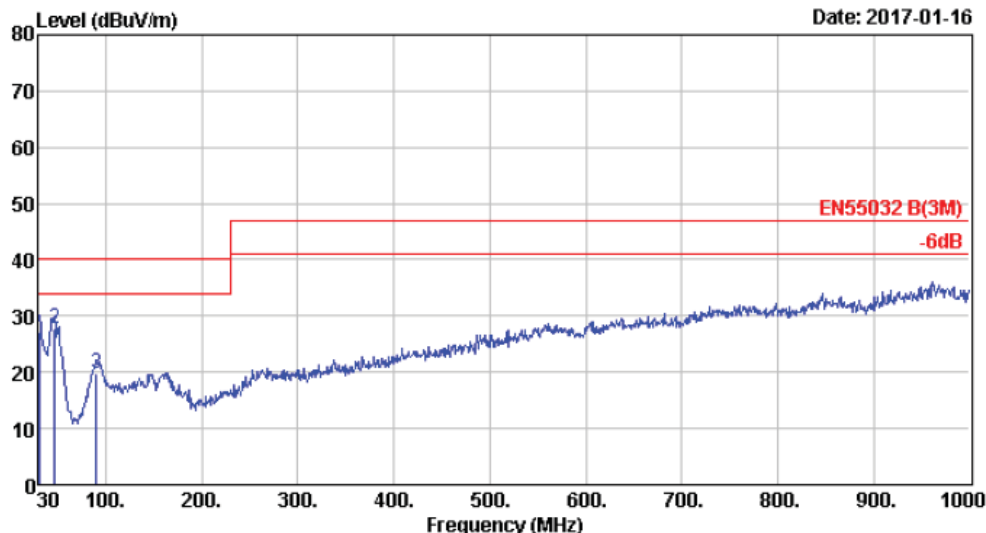
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	8.53	27.66	40.00	12.34	QP
2	50.370	7.57	1.28	16.49	25.34	40.00	14.66	QP
3	167.740	9.46	1.94	9.43	20.83	40.00	19.17	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 29

File: \\EMC-966-2\966-2 test data\2017\DI WEN.EM6 (652)

Date: 2017-01-16



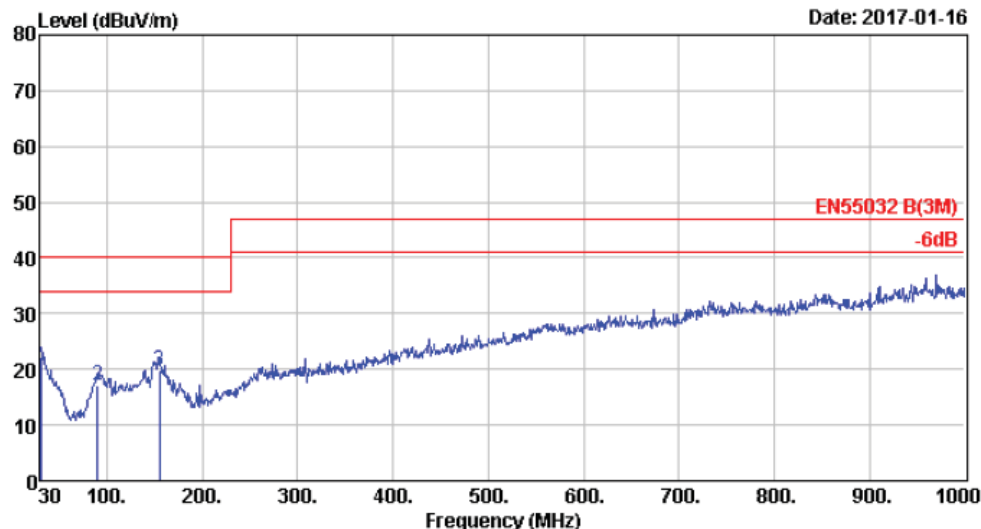
Site no. : 2# 966 chamber Data no. : 29
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12CB-12 120100
 Test Mode : Full Load(Output:12V/1A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	7.99	27.12	40.00	12.88	QP
2	46.490	9.40	1.34	16.99	27.73	40.00	12.27	QP
3	90.140	8.60	1.85	9.32	19.77	40.00	20.23	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 30 File: \\EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 30
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12CB-12 120100
Test Mode : Full Load(Output:12V/1A)

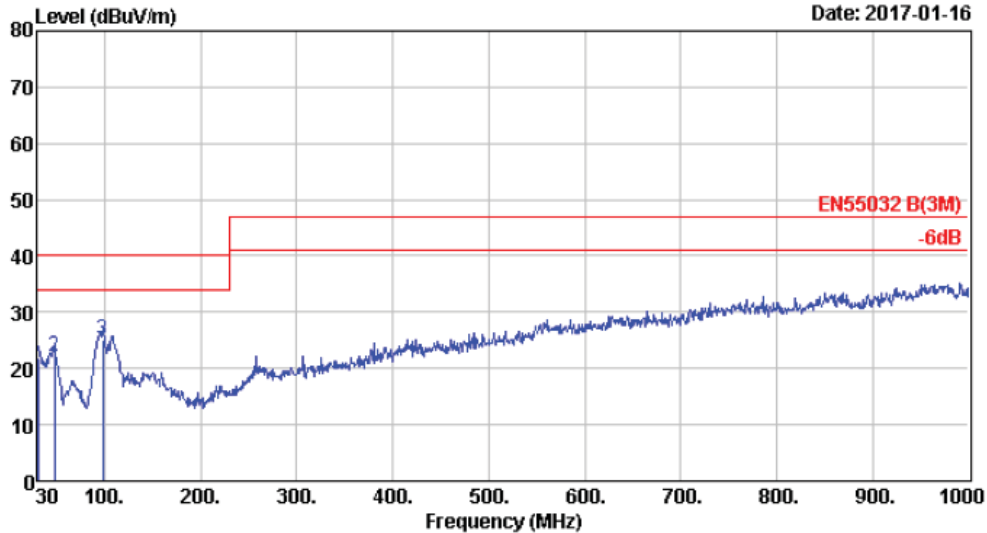
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.88	22.01	40.00	17.99	QP
2	90.140	8.60	1.85	6.68	17.13	40.00	22.87	QP
3	155.130	10.44	1.83	7.64	19.91	40.00	20.09	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 31

File: \EMC-966-2\966-2 test data\2017\DI WEN.EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 31
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12CB-12 120100
 Test Mode : Full Load(Output:12V/1A)

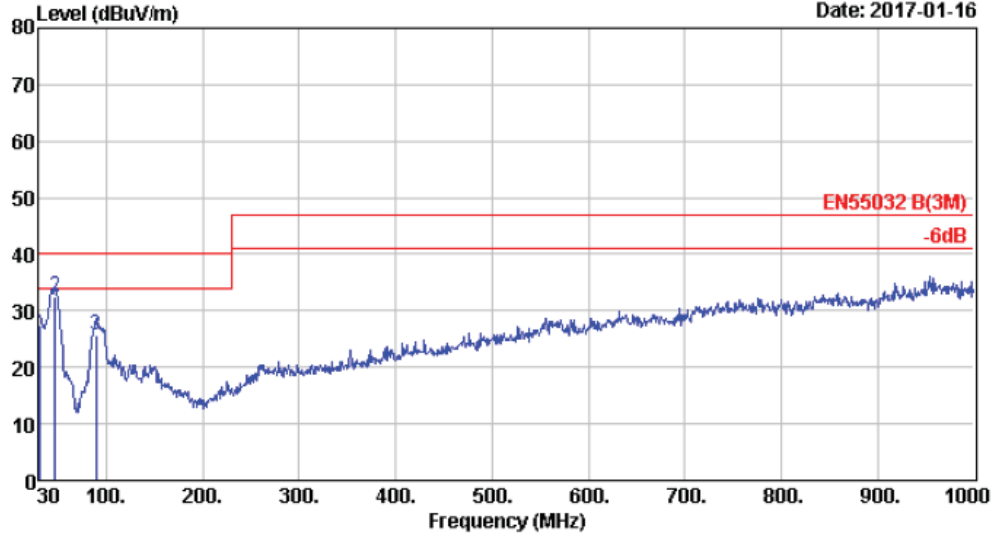
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.73	21.86	40.00	18.14	QP
2	47.460	9.02	1.42	11.60	22.04	40.00	17.96	QP
3	97.900	9.31	1.70	14.15	25.16	40.00	14.84	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 32

File: \EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



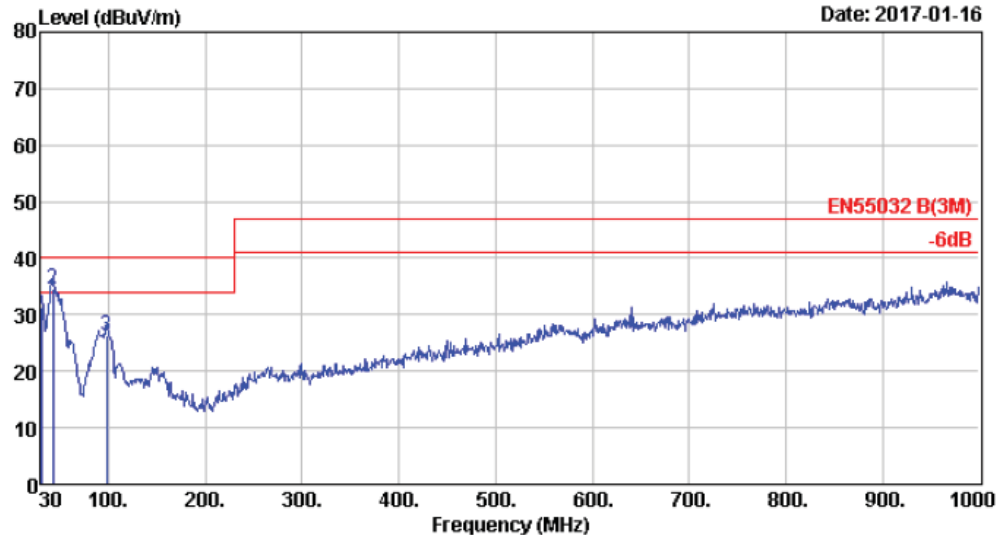
Site no. : 2# 966 chamber Data no. : 32
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12CB-12 120100
 Test Mode : Full Load(Output:12V/1A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	8.18	27.31	40.00	12.69	QP
2	46.490	9.40	1.34	21.63	32.37	40.00	7.63	QP
3	89.170	8.45	1.62	15.50	25.57	40.00	14.43	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 33 File: \\EMC-966-2\966-2 test data\2017\DI\WEN\EM6 (652)

Date: 2017-01-16



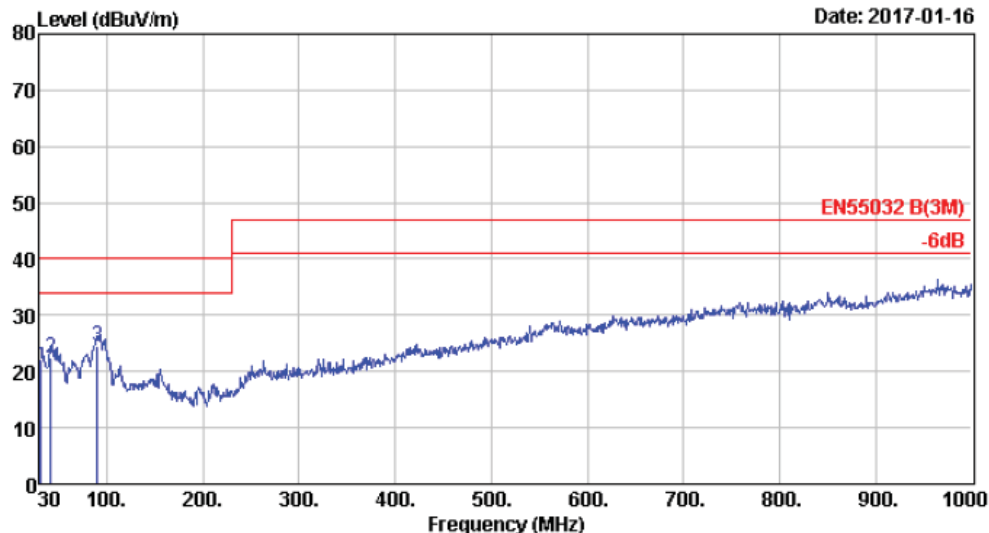
Site no. : 2# 966 chamber Data no. : 33
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFA-09 FEU 120100A
 Test Mode : Full Load(Output:12V/1A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	12.28	31.41	40.00	8.59	QP
2	42.610	11.23	1.18	22.01	34.42	40.00	5.58	QP
3	97.900	9.31	1.70	15.28	26.29	40.00	13.71	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 34 File: WEMC-966-2\966-2 test data\2017\D\DIWEN.EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 34
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFA-09 FEU 120100A
 Test Mode : Full Load(Output:12V/1A)

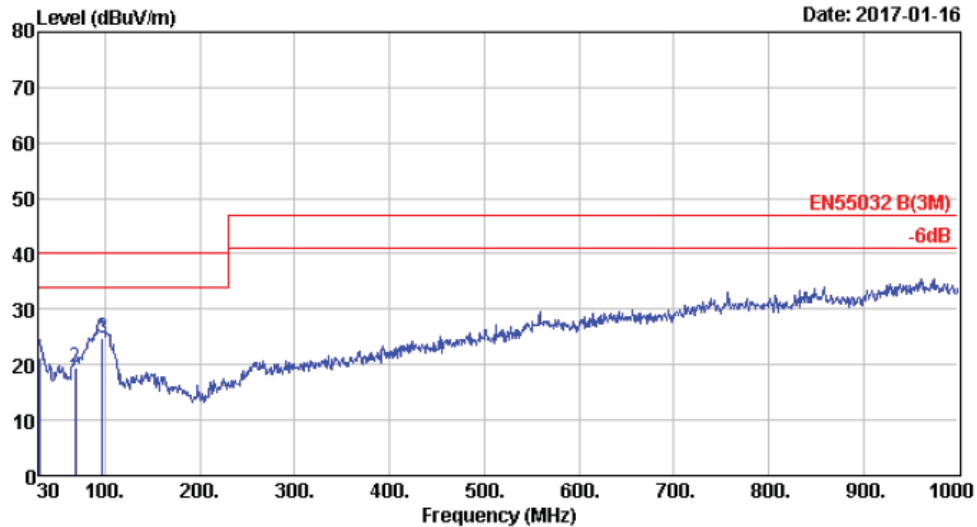
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.99	22.12	40.00	17.88	QP
2	41.640	11.73	1.18	9.60	22.51	40.00	17.49	QP
3	90.140	8.60	1.85	13.96	24.41	40.00	15.59	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 35

File: \\EMC-966-2\\966-2 test data\\2017\\DI WEN.EM6 (652)

Date: 2017-01-16



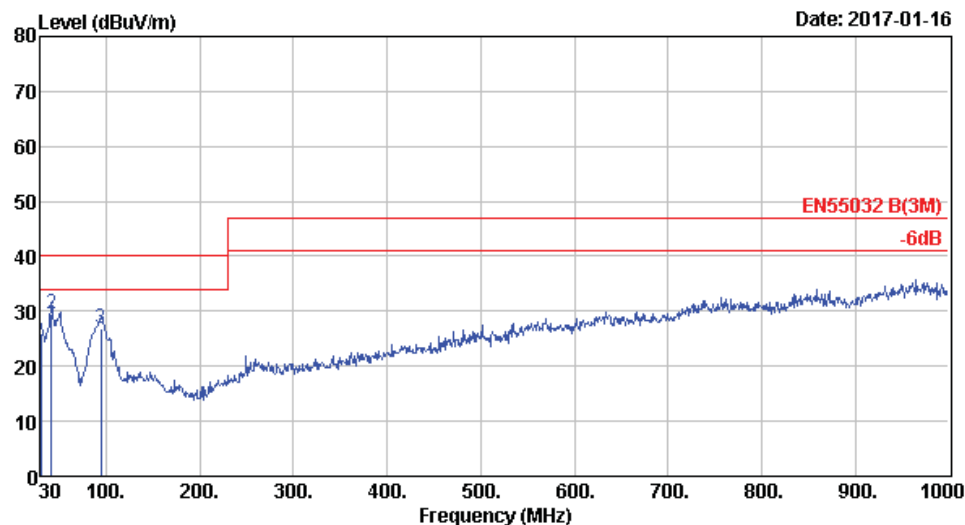
Site no. : 2# 966 chamber Data no. : 35
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 110V/60Hz
 M/N : DSA-12PFA-09 FEU 120100A
 Test Mode : Full Load(Output:12V/1A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.24	21.37	40.00	18.63	QP
2	68.800	5.39	1.06	12.98	19.43	40.00	20.57	QP
3	96.930	9.21	1.77	13.84	24.82	40.00	15.18	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 36 File: \\EMC-966-2\966-2 test data\2017\DI\WEN.EM6 (652)

Date: 2017-01-16



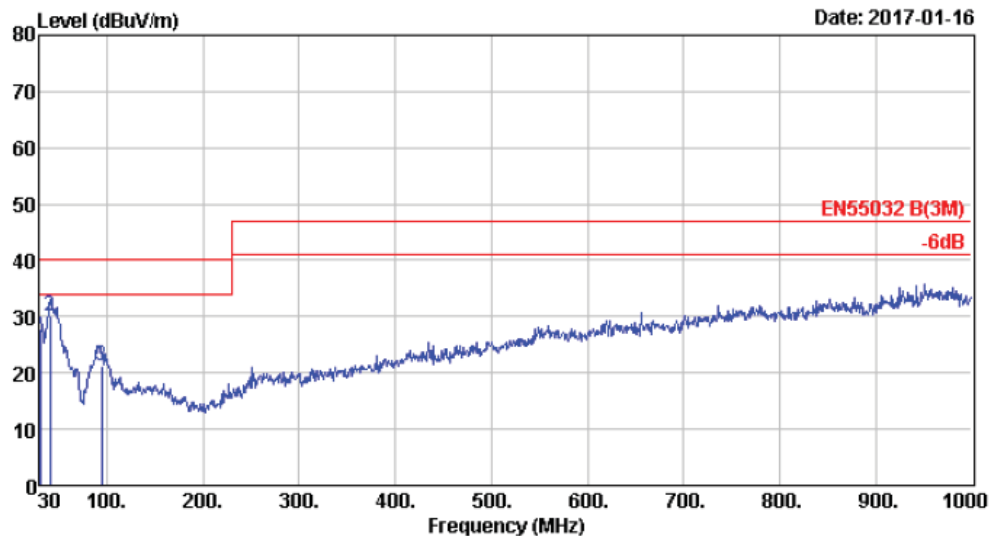
Site no. : 2# 966 chamber Data no. : 36
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFA-09 FEU 120100A
Test Mode : Full Load(Output:12V/1A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	6.73	25.86	40.00	14.14	QP
2	41.640	11.73	1.18	16.59	29.50	40.00	10.50	QP
3	94.020	8.95	1.62	16.38	26.95	40.00	13.05	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 37 File: \\EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 37
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFA-09 FEU 120100A
Test Mode : Half Load(Output:12V/0.5A)

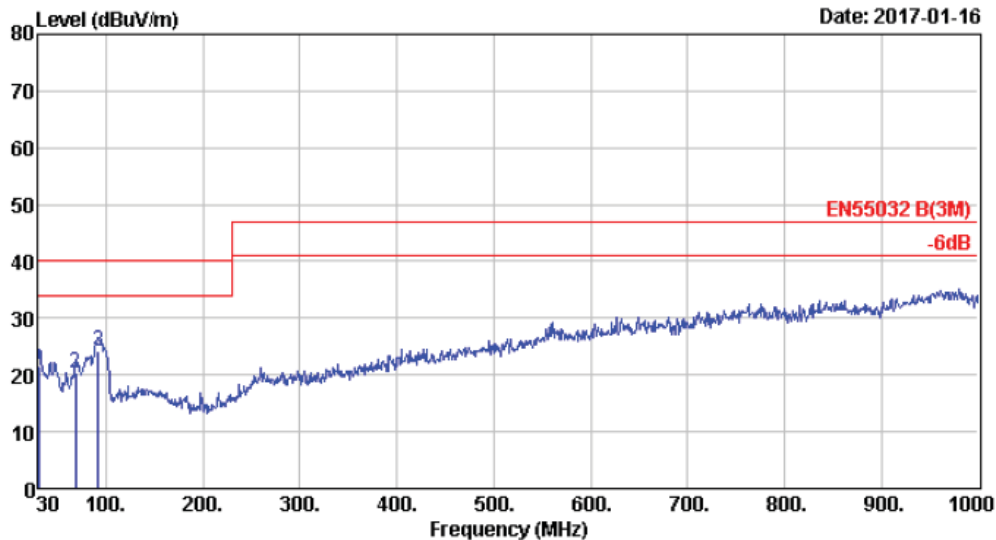
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	8.76	27.89	40.00	12.11	QP
2	40.670	12.31	1.16	16.68	30.15	40.00	9.85	QP
3	94.020	8.95	1.62	10.65	21.22	40.00	18.78	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 38

File: \EMC-966-2\966-2 test data\2017\DI WEN.EM6 (652)

Date: 2017-01-16



Site no. : 2# 966 chamber Data no. : 38
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Hale
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFA-09 FEU 120100A
 Test Mode : Half Load(Output:12V/0.5A)

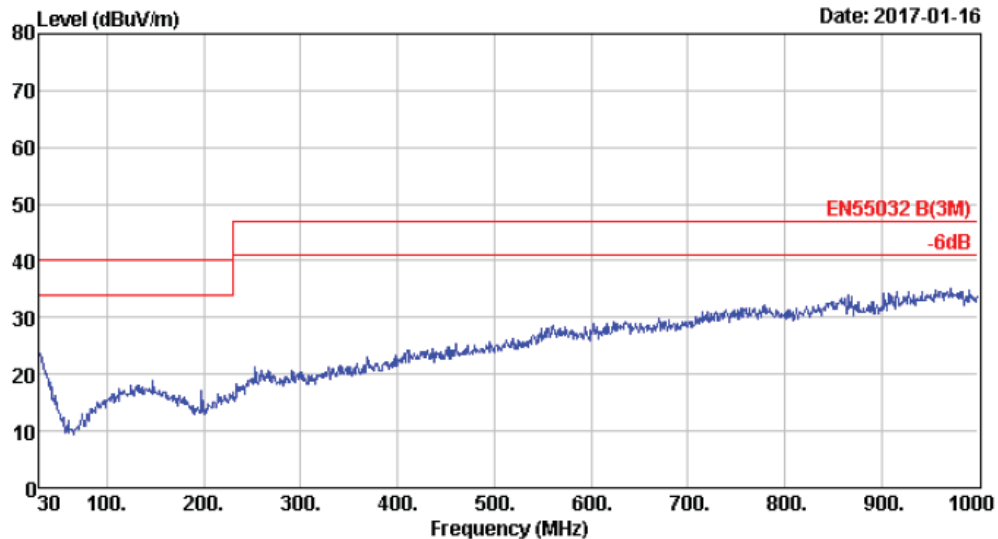
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	2.27	21.40	40.00	18.60	QP
2	68.800	5.39	1.06	14.01	20.46	40.00	19.54	QP
3	92.080	8.71	1.64	13.92	24.27	40.00	15.73	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 39

File: \\EMC-966-2\966-2 test data\2017\DI WEN\EM6 (652)

Date: 2017-01-16

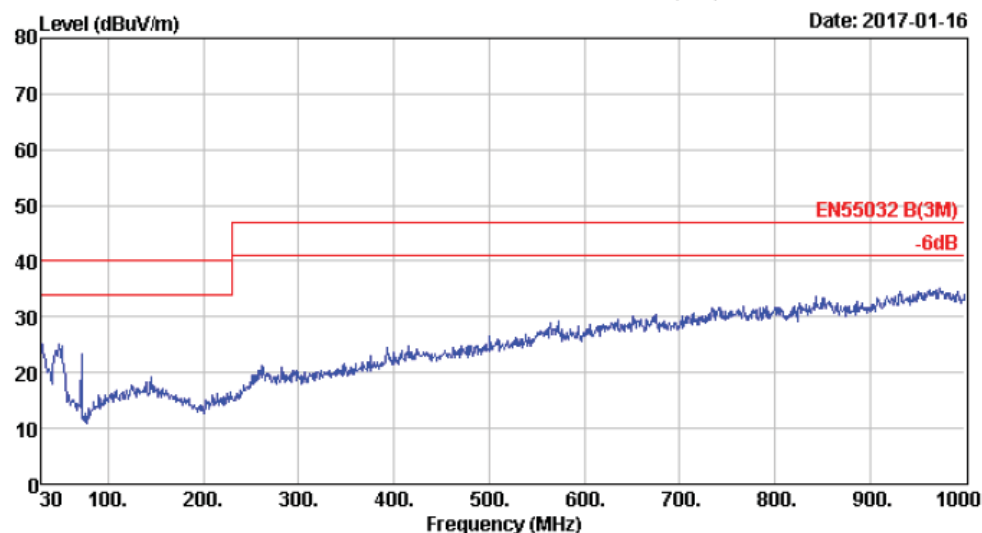


Site no.	: 2# 966 chamber	Data no.	: 39
Dis. / Ant.	: 3m 37062	Ant. pol.	: HORIZONTAL
Limit	: EN55032 B(3M)		
Env. / Ins.	: Temp:23.6';Humi:56%;Press:101.52kPa		
Engineer	: Hale		
EUT	: Switching Adapter		
Power	: AC 230V/50Hz		
M/N	: DSA-12PFA-09 FEU 120100A		
Test Mode	: No Load		

Data: 40

File: \\EMC-966-2\\966-2 test data\\2017\\D\\DI WEN.EM6 (652)

Date: 2017-01-16

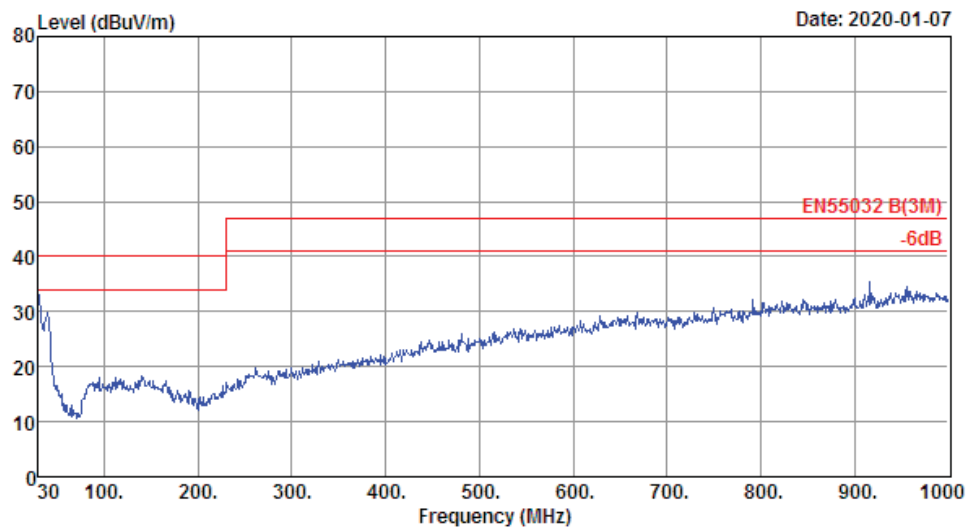


Site no. : 2# 966 chamber Data no. : 40
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Hale
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFA-09 FEU 120100A
Test Mode : No Load

Data: 1

File: \\Emc-966-2\\test data\\2020-3#966\\D\\帝闻\\DVE.EM6 (8)

Date: 2020-01-07

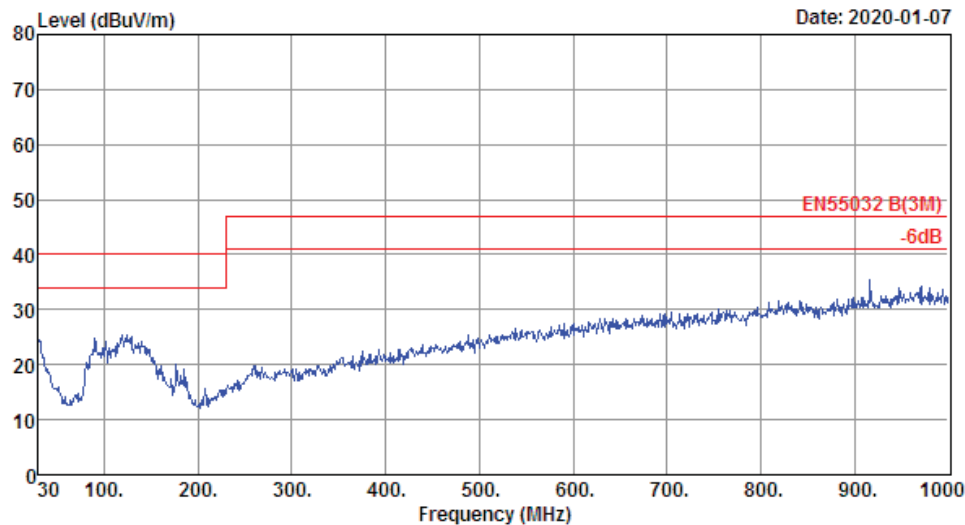


Site no. : 3# 966 Chamber Data no. : 1
Dis. / Ant. : 3m 31218 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Strive
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFT-03 FEU 042150
Test Mode : Full Load(Output:4.2V/1.5A)

Data: 2

File: \\Emc-966-2\\test data\\2020-3#966\\D\\帝闻\\DVE.EM6 (8)

Date: 2020-01-07

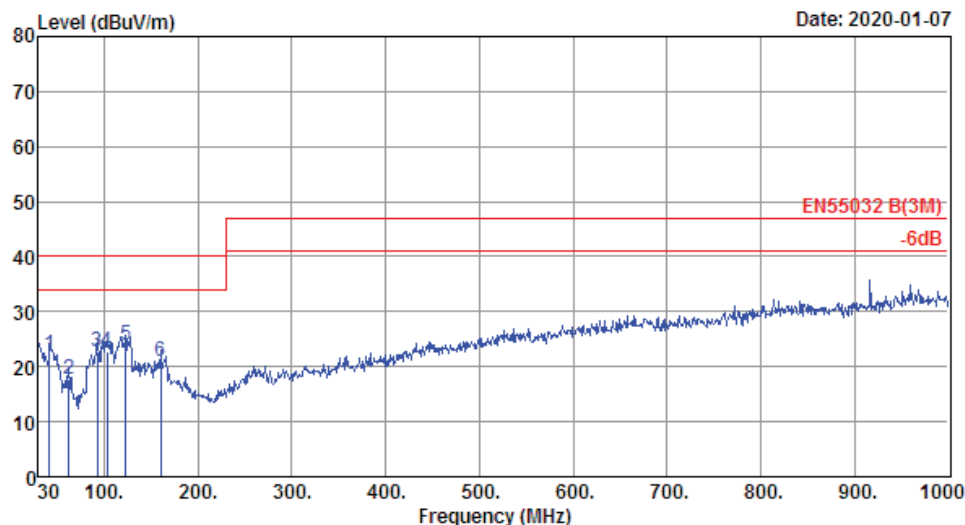


Site no. : 3# 966 Chamber Data no. : 2
Dis. / Ant. : 3m 31218 Ant. pol. : HORIZONTAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Strive
EUT : Switching Adapter
Power : AC 110V/60Hz
M/N : DSA-12PFT-03 FEU 042150
Test Mode : Full Load(Output:4.2V/1.5A)

Data: 3

File: \\Emc-966-2\\test data\\2020-3#966\\D\\帝闻\\DVE.EM6 (8)

Date: 2020-01-07



Site no. : 3# 966 Chamber Data no. : 3
 Dis. / Ant. : 3m 31218 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Strive
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFT-03 FEU 042150
 Test Mode : Full Load(Output:4.2V/1.5A)

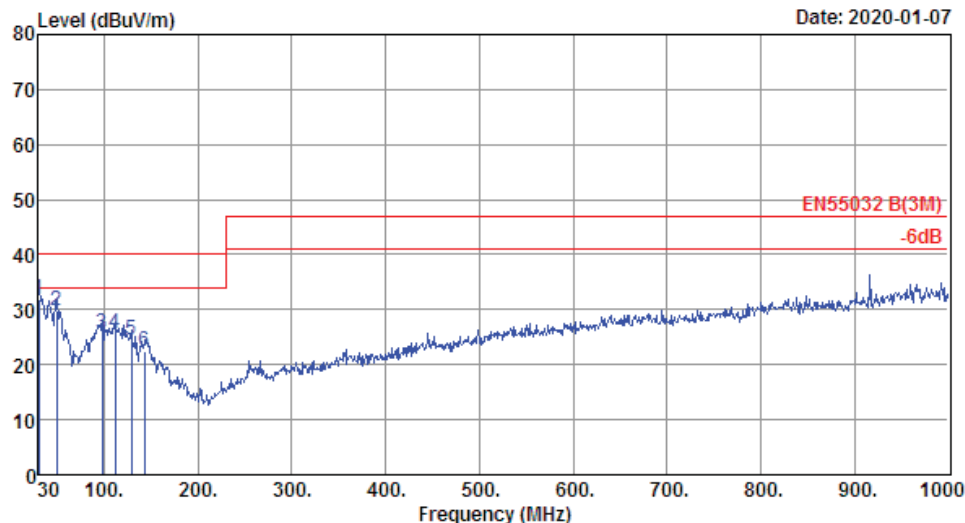
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	41.64	11.60	0.23	10.31	22.14	40.00	17.86	QP
2	62.01	5.20	0.41	12.04	17.65	40.00	22.35	QP
3	93.05	9.72	0.81	12.20	22.73	40.00	17.27	QP
4	102.75	10.30	0.81	11.63	22.74	40.00	17.26	QP
5	123.12	11.32	0.88	11.58	23.78	40.00	16.22	QP
6	159.98	11.20	1.04	8.72	20.96	40.00	19.04	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 4

File: \\Emc-966-2\\test data\\2020-3#966\\D\\帝闻\\DVE.EM6 (8)

Date: 2020-01-07



Site no. : 3# 966 Chamber Data no. : 4
 Dis. / Ant. : 3m 31218 Ant. pol. : VERTICAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Strive
 EUT : Switching Adapter
 Power : AC 230V/50Hz
 M/N : DSA-12PFT-03 FEU 042150
 Test Mode : Full Load(Output:4.2V/1.5A)

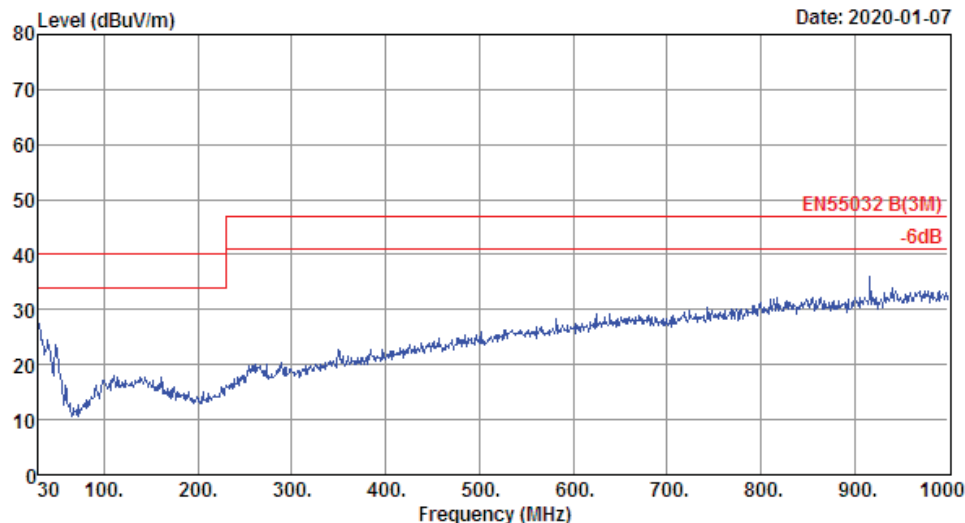
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.60	0.19	12.98	31.77	40.00	8.23	QP
2	49.40	9.00	0.28	20.58	29.86	40.00	10.14	QP
3	97.90	9.92	0.80	14.89	25.61	40.00	14.39	QP
4	111.48	11.13	0.85	13.68	25.66	40.00	14.34	QP
5	128.94	11.56	0.93	11.88	24.37	40.00	15.63	QP
6	142.52	12.00	0.96	9.51	22.47	40.00	17.53	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 5

File: \\Emc-966-2\\test data\\2020-3#966\\D\\帝闻\\DVE.EM6 (8)

Date: 2020-01-07

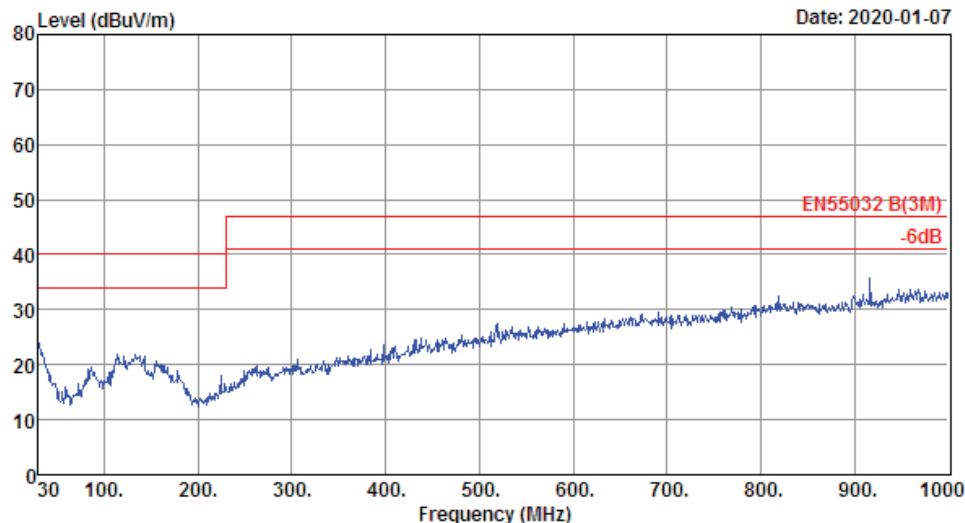


Site no. : 3# 966 Chamber Data no. : 5
Dis. / Ant. : 3m 31218 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Strive
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFT-03 FEU 042150
Test Mode : Half Load(Output:4.2V/0.75A)

Data: 6

File: \\Emc-966-2\\test data\\2020-3#966\\D\\帝闻\\DVE.EM6 (8)

Date: 2020-01-07

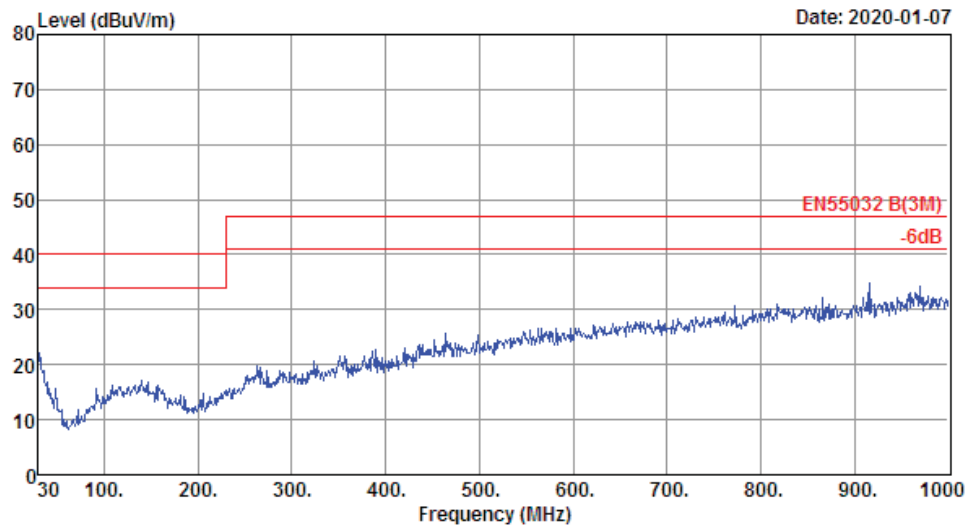


Site no. : 3# 966 Chamber Data no. : 6
Dis. / Ant. : 3m 31218 Ant. pol. : HORIZONTAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Strive
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFT-03 FEU 042150
Test Mode : Half Load(Output:4.2V/0.75A)

Data: 7

File: \\Emc-966-2\\test data\\2020-3#966\\D\\帝闻\\DVE.EM6 (8)

Date: 2020-01-07

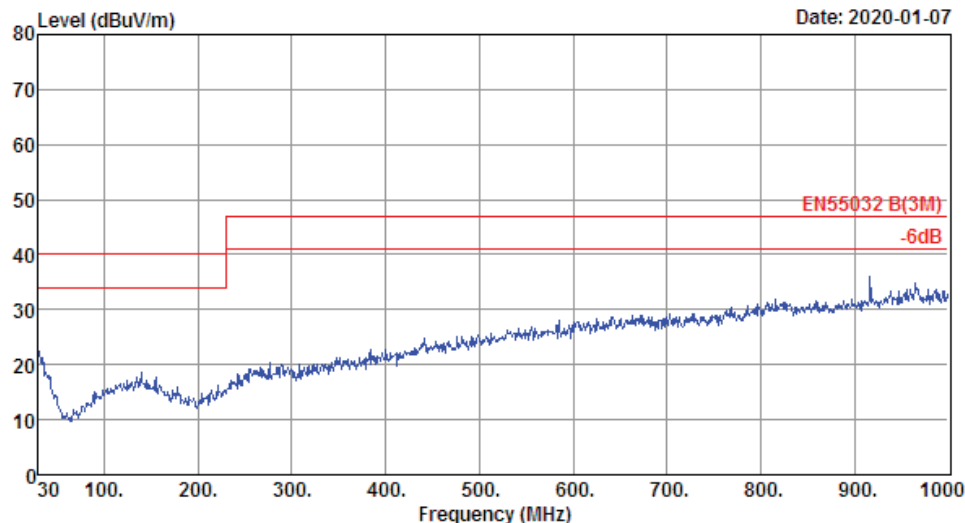


Site no. : 3# 966 Chamber Data no. : 7
Dis. / Ant. : 3m 31218 Ant. pol. : HORIZONTAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Strive
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFT-03 FEU 042150
Test Mode : No Load

Data: 8

File: \\Emc-966-2\\test data\\2020-3#966\\D\\帝闻\\DVE.EM6 (8)

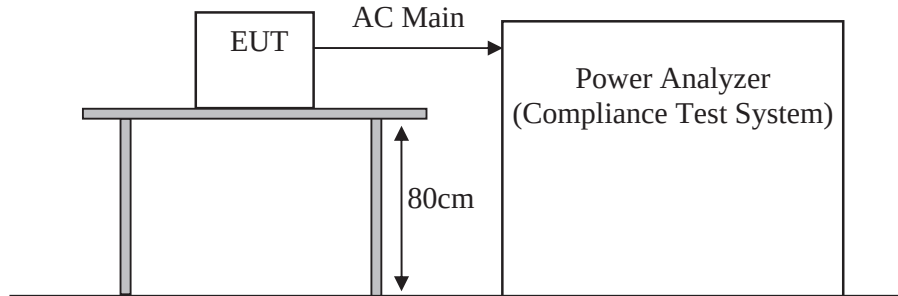
Date: 2020-01-07



Site no. : 3# 966 Chamber Data no. : 8
Dis. / Ant. : 3m 31218 Ant. pol. : VERTICAL
Limit : EN55032 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Strive
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : DSA-12PFT-03 FEU 042150
Test Mode : No Load

4.3. Harmonic Current Emissions on AC Mains Test

RESULT : N/A
Test procedure : EN IEC 61000-3-2:2019
Measured harmonics : 1~40th
Limits : EN IEC 61000-3-2:2019



There is no need for Harmonics test to be performed on this product (rated power is less than 75W) in accordance with EN IEC 61000-3-2:2019.

For further details, please refer to Clause 7 of EN IEC 61000-3-2:2019 which states:

“For the following categories of equipment, limits are not specified in this edition of the standard:

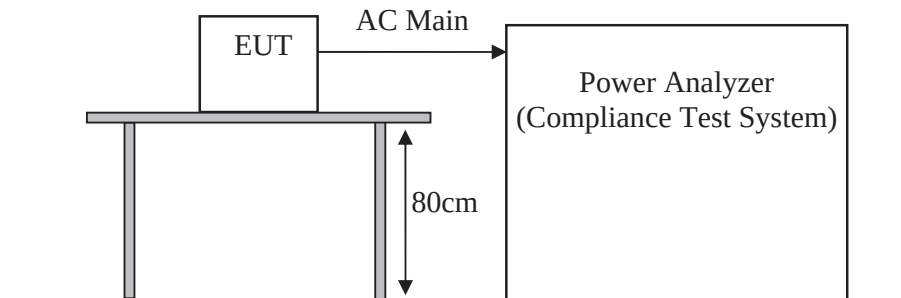
- equipment with a rated power of 75W or less, other than lighting equipment.”

4.4. Voltage Fluctuations and Flicker on AC Mains Test

RESULT : **Pass**(Please refer to the following page)

Test procedure : EN 61000-3-3:2013

Limits : EN 61000-3-3:2013



Test Data

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

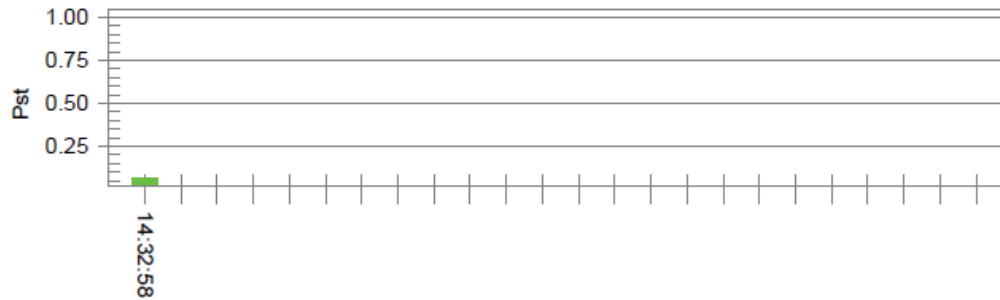
EUT: Switching Adapter M/N:ADS-12CB-12 120100 Tested by: Hale
Test category: All parameters (European limits) Test Margin: 100
Test date: 2016/12/30 Start time: 14:22:37 End time: 14:33:04
Test duration (min): 10 Data file name: F-000339.cts_data
Comment: Full Load
Customer: DVE

Test Result: Pass

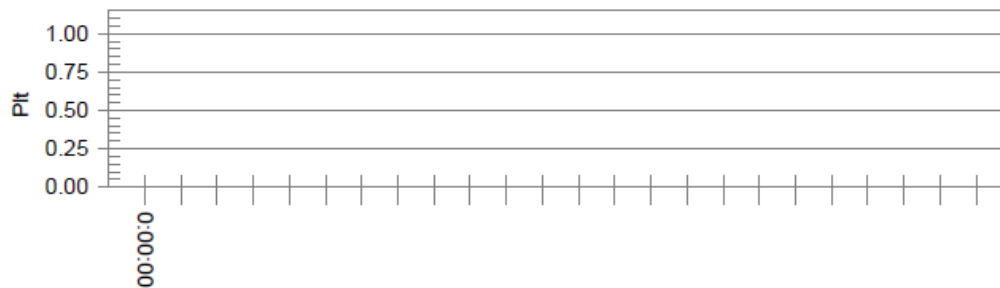
Status: Test Completed

Pst and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	230.03		
Highest dt (%):	0.00	Test limit (%):	N/A
T-max (mS):	0	Test limit (mS):	500.0
Highest dc (%):	0.00	Test limit (%):	3.30
Highest dmax (%):	0.00	Test limit (%):	4.00
Highest Pst (10 min. period):	0.064	Test limit:	1.000
Highest Plt (2 hr. period):	0.028	Test limit:	0.650

5. IMMUNITY TEST RESULT

5.1. Description of Performance Criteria:

Performance criteria A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

For audio output device: The measured acoustic interference ratio and/or the measured electrical interference during the test shall be -20dB or better(see note1)

Performance criteria B

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criteria C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

Note 1: This performance criterion only using for Continuous inducted RF disturbances and Continuous RF electromagnetic field disturbances item.

5.2. Electrostatic Discharge Immunity Test

RESULT	: Pass
Test procedure	: EN 55035:2017
Basic standard	: EN 61000-4-2:2009
Test specification	: +/-4.0kV(Contact discharge) +/-8.0kV(Air discharge)
Number of discharges	: ≥ 10 (Air discharge for single polarity discharge) ≥ 10 (Contact discharge for single polarity discharge)
Polarity	: Positive/Negative
Performance criterion	: B

Test Setup

Date of test	: Jan. 17, 2017; Jan. 10, 2020
Model No.	: DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100, DSA-12CB-05 050200, DSA-12CB-12 120100, DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage	: AC 230V/50Hz
Operation Mode	: Full Load, Half Load, No Load
Temperature	: 23.6°C
Humidity	: 55%
Pressure	: 101.1kPa

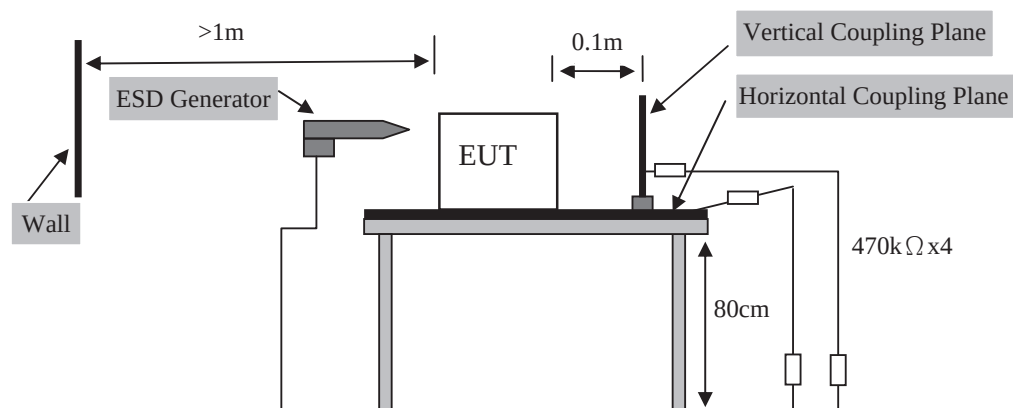


Table 1: Electrostatic Discharge Immunity Test Result

Discharge Location		Type of discharge	Result
HCP	4 points	Contact	Pass
VCP	4 points	Contact	Pass
DC Port	1 point	Contact	Pass
Slot	4 points	Air	Pass

*Remark: 1. The voltage was reduced during the test, but self-recoverable after the test.
2. Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).*

5.3. Radio Frequency Electromagnetic Field Immunity Test

RESULT : **Pass**
Test procedure : EN 55035:2017
Basic standard : EN 61000-4-3:2006+A1:2008+A2:2010
Frequency Range : 80-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz
Performance criterion : A
Test site : Dongguan Nore Testing Center Co., Ltd.

Test Setup

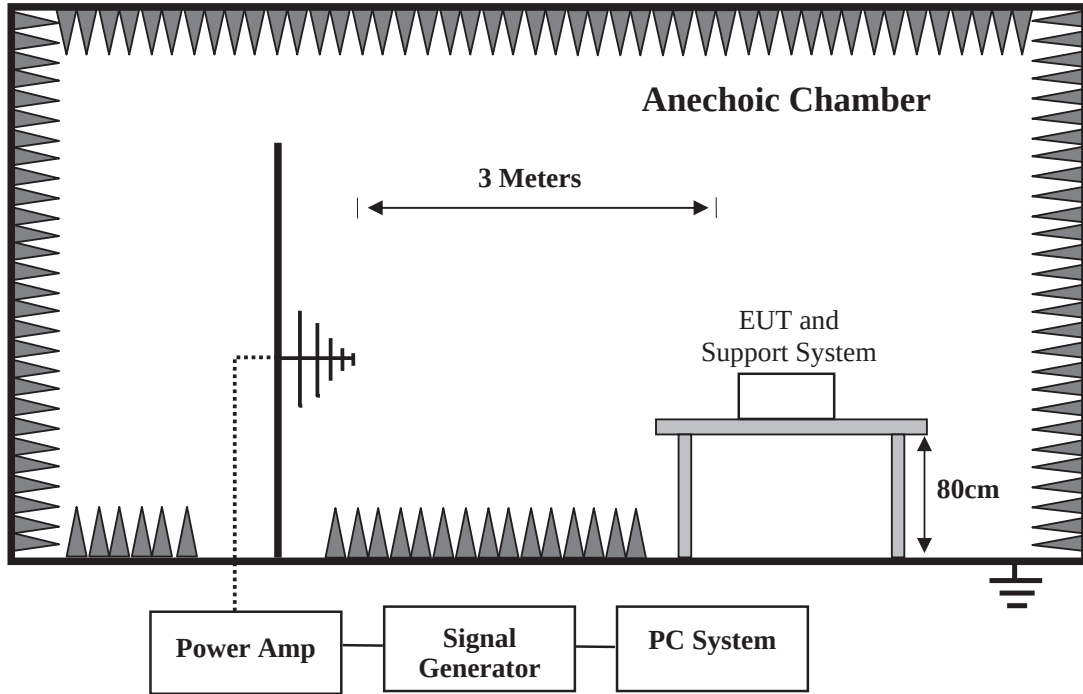
Date of test : Jan. 17, 2017; Jan. 10, 2020
Model No. : DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100,
DSA-12CB-05 050200, DSA-12CB-12 120100,
DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage : AC 230V/50Hz, AC 110V/60Hz
Operation Mode : Full Load, Half Load, No Load
Temperature : 23.6°C
Humidity : 55%
Pressure : 101.1kPa

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The EUT was set 3 m away from the transmitting antenna which was mounted on an antenna tower. Both horizontal and vertical polarization of the antenna were set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera was used to monitor EUT screen.

All the scanning conditions were as follows:

Condition of Test	Remarks
1. Field Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80 - 1000 MHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	at least 3 seconds



Condition of Test

Remarks

6. Field Strength	3 V/m (Severity Level 2)
7. Radiated Signal	Modulated
8. Scanning Frequency	1800MHz,2600MHz,3500MHz,5000MHz
9. Sweeping time of radiated	0.0015 decade/s
10. Dwell Time	at least 3 seconds

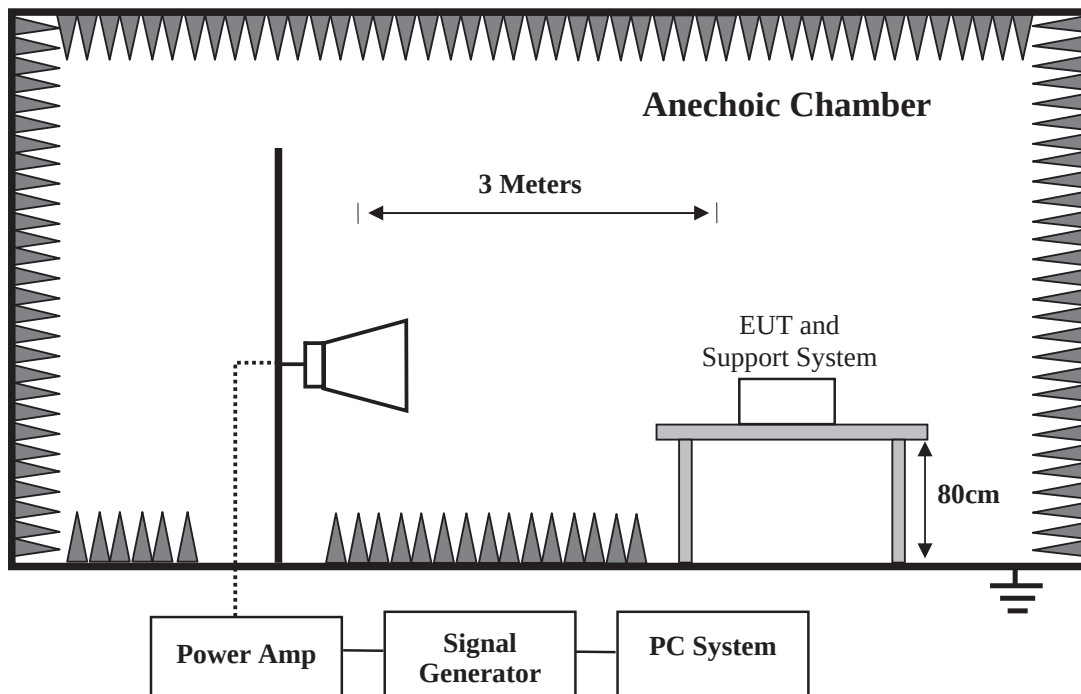


Table 2: Radio Frequency Electromagnetic Field Immunity Test Result

Position	Frequency Range	Test Level	Modulated Signal	Freq. Step	Dwell Time	Result
Front	80 to 1000 MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz	3 V/m	AM 80%, 1kHz sine wave	1%	3 s	Pass
Right						
Rear						
Left						
Remark: There was no change compared with initial operation during the test.						

5.4. Electrical Fast Transient/Burst Immunity Test

RESULT	: Pass
Test procedure	: EN 55035:2017
Basic standard	: EN 61000-4-4:2012
Pulse form	: Tr/Th = 5/50ns
Repetition Frequency	: 5 kHz ; (100 kHz : only for single lines of xDSL equipment)
Test Duration	: 120s
Performance criterion	: B

Test Setup

Date of test	: Jan. 17, 2017; Jan. 10, 2020
Model No.	: DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100, DSA-12CB-05 050200, DSA-12CB-12 120100, DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage	: AC 230V/50Hz, AC 110V/60Hz
Operation Mode	: Full Load, Half Load, No Load
Temperature	: 23.6°C
Humidity	: 55%
Pressure	: 101.1kPa

The EUT and its simulators were placed 0.1m high above the ground reference plane which was a min. 2m*2m metallic sheet with 0.65mm minimum thickness. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

1. For input and AC power ports:

The EUT was connected to the power mains by using a coupling device which coupled the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test can't less than 2 mains.

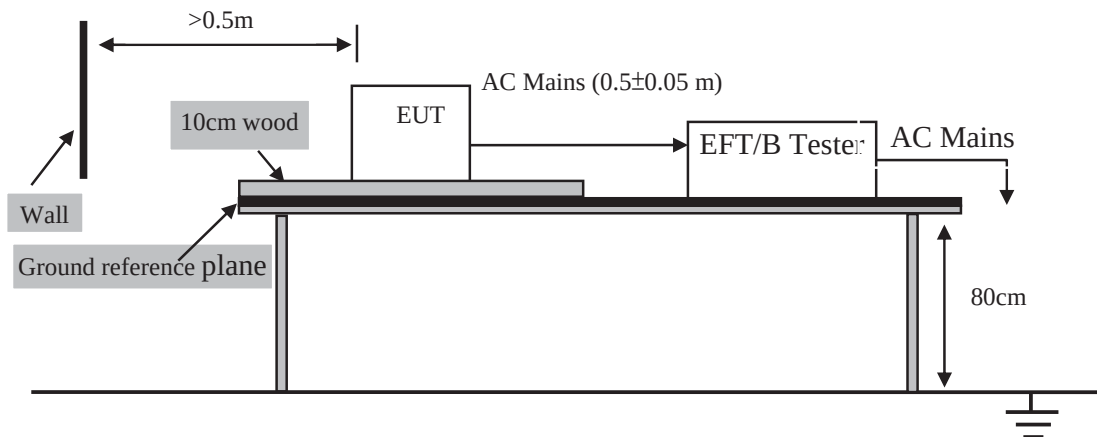


Table 3: Electrical Fast Transient/Burst Immunity Test Result

Coupling Ports		Coupling Voltage	Inject Method	Result
AC Power Ports	L	± 1 kV	Direct	Pass
	N	± 1 kV		Pass
	L-N	± 1 kV		Pass

Remark: The voltage was reduced during the test, but self-recoverable after the test.

5.5. Surge Immunity Test

RESULT : **Pass**
Test procedure : EN 55035:2017
Basic standard : EN 61000-4-5:2014
Pulseform : Tr/Td = 1.2/50us
Test Duration : 60s
Performance criterion : B

Test Setup

Date of test : Jan. 17, 2017; Jan. 10, 2020
Model No. : DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100,
DSA-12CB-05 050200, DSA-12CB-12 120100,
DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage : AC 230V/50Hz, AC 110V/60Hz
Operation Mode : Full Load, Half Load, No Load
Temperature : 23.6°C
Humidity : 55%
Pressure : 101.1kPa

2 Ω effective output impedance of the generator was used for L-N test. 12 Ω effective output impedance of the generator was used for L-PE, N-PE test.

5 positive and 5 negative (polarity) tests were applied successively synchronized to the voltage phase 90°, 270° to L-N respectively. The repetition rate was 1 per minute during test.

1. For input and AC power ports:

The EUT was connected to the power mains by using a coupling device which coupled the surge interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration was 1 minute.

2. For signal lines and control lines ports:

None.

3. For DC input and DC output power ports:

None.

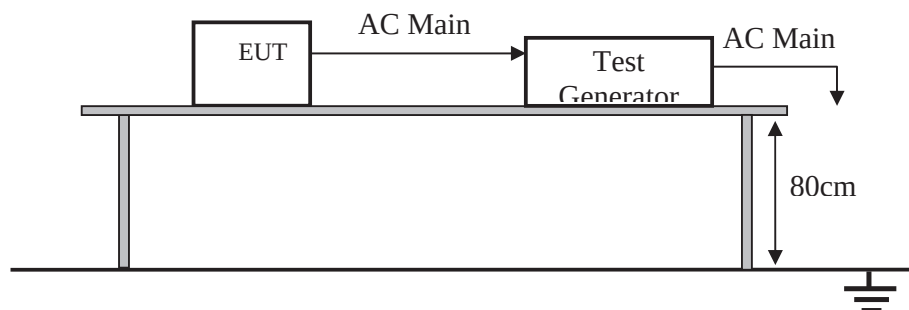


Table 4: Surge Immunity Test Result

Coupling Ports		Coupling Voltage	Coupling Phase / Result			
			0°	90°	180°	270°
AC power ports	L-N	+/-1kV Direct	---	Pass	---	Pass

Remark: The voltage was reduced during the test, but self-recoverable after the test.

5.6. Injected Currents Susceptibility Test

RESULT	: Pass
Test procedure	: EN 55035:2017
Basic standard	: EN 61000-4-6:2014
Test specification	: 3 Vr.m.s, 3 Vr.m.s - 1Vr.m.s, 1Vr.m.s, AM 80%, 0.15 MHz - 10 MHz, 10 MHz – 30 MHz, 30 MHz – 80MHz
Performance criterion	: A

Test Setup

Date of test	: Jan. 17, 2017; Jan. 10, 2020
Model No.	: DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100, DSA-12CB-05 050200, DSA-12CB-12 120100, DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage	: AC 230V/50Hz, AC 110V/60Hz
Operation Mode	: Full Load, Half Load, No Load
Temperature	: 23.6°C
Humidity	: 55%
Pressure	: 101.1kPa

The EUT were placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) was placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT were as short as possible, and their height above the ground reference plane were between 30 and 50 mm (where possible).

The frequency range was swept from 0.15 MHz - 10 MHz, 10 MHz – 30 MHz and 30 MHz – 80MHz using 3V, 3 V - 1V, 1V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.

The dwell time of the amplitude modulated carrier at each frequency shall not be less than the time necessary for the EUT to be exercised and to respond, but shall in no case be less than 0,5 s. The sensitive frequencies (e.g. clock frequencies) shall be analyzed separately.

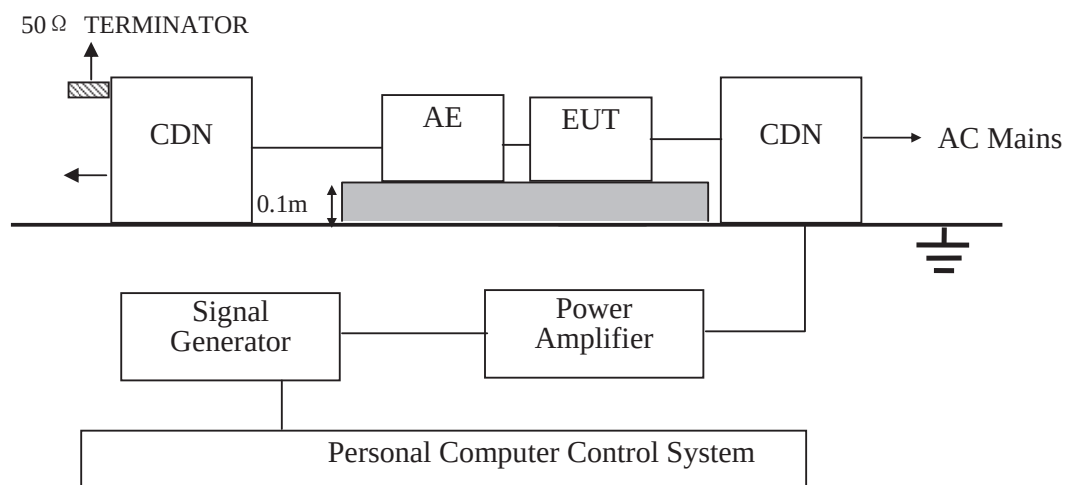


Table 5: Injected Currents Susceptibility Test Result

Coupling ports	Voltage (r.m.s)	Modulation	Freq. step	Dwell time	Coupling method	Result
AC power ports	3V	1kHz AM 80%	1%	1.5s	CDN	Pass
	3V-1V					Pass
	1V					Pass
DC power ports	/		/	/	EM Clamp	/
Signal/control	/		/	/	EM Clamp	/

Remark: There was no change compared with initial operation during the test

5.7. Power Frequency Magnetic Field Immunity Test

RESULT : **Pass**
Test procedure : EN 55035:2017
Basic standard : EN 61000-4-8:2010
Test specification : 1 A/m
Performance criterion : A

Test Setup

Date of test : Jan. 17, 2017; Jan. 10, 2020
Model No. : DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100,
DSA-12CB-05 050200, DSA-12CB-12 120100,
DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage : AC 230V/50Hz, AC 110V/60Hz
Operation Mode : Full Load, Half Load, No Load
Temperature : 23.6°C
Humidity : 55%
Pressure : 101.1kPa

The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m). The induction coil then was rotated by 90° in order to expose the EUT to the test field with different orientations.

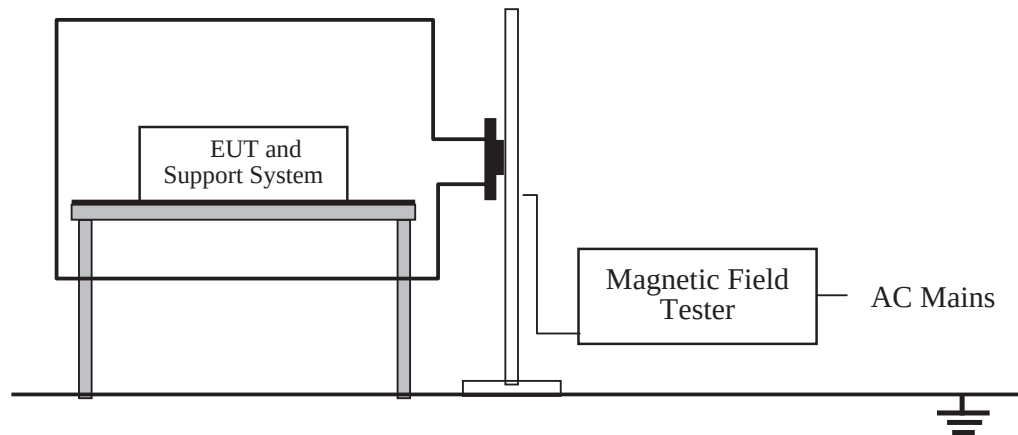


Table 6: Power Frequency Magnetic Field Immunity Test Result

Test Level	Testing Duration	Coil Orientation	Criterion	Result
1A/m	5 mins	X	A	Pass
1A/m	5 mins	Y	A	Pass
1A/m	5 mins	Z	A	Pass

Remark: There was no change compared with initial operation during the test.

5.8. Voltage Dips and Short Interruptions Immunity Test

RESULT : **Pass**
Test procedure : EN 55035:2017
Basic standard : EN 61000-4-11:2004
Test specification : 0%UT ; 0.5P, Criterion: B
70%UT; 25P/30P, Criterion: C
0%UT; 250P/300P, Criterion: C

Test Setup

Date of test : Jan. 17, 2017; Jan. 10, 2020
Model No. : DSA-12PFT-05 FEU 050200, DSA-12PFT-12 FEU 120100,
DSA-12CB-05 050200, DSA-12CB-12 120100,
DSA-12PFA-09 FEU 120100A, DSA-12PFT-03 FEU 042150
Input Voltage : AC 230V/50Hz; AC 110V/60Hz
Operation Mode : Full Load, Half Load, No Load
Temperature : 23.6°C
Humidity : 55%
Pressure : 101.1kPa

The interruptions was introduced at selected phase angles with specified duration.
Recorded any degradation of performance.

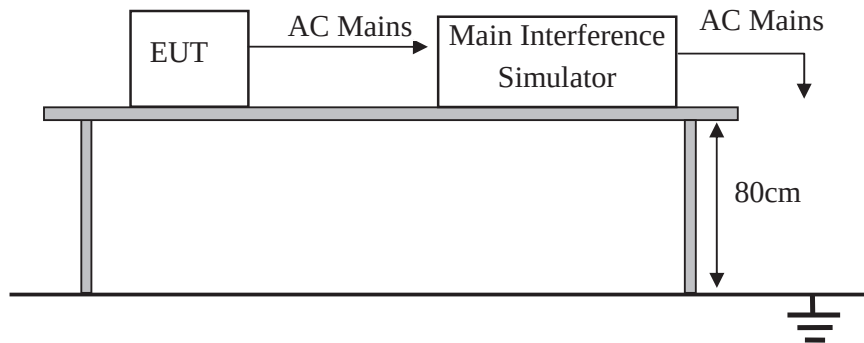


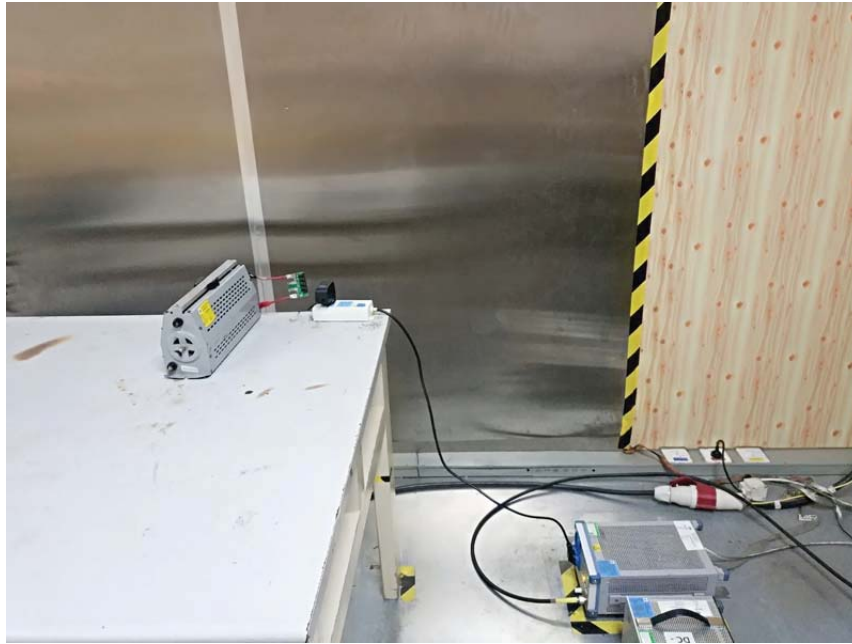
Table 7: Voltage Dips and Short Interruptions Immunity Test Result AC 230V/50Hz

Test Level % UT	Voltage Dips & Short Interruptions % UT	Duration (in period)	Criterion	Result
0	100	0.5P	B	PASS
70	30	25P	C	PASS
0	100	250P	C	PASS

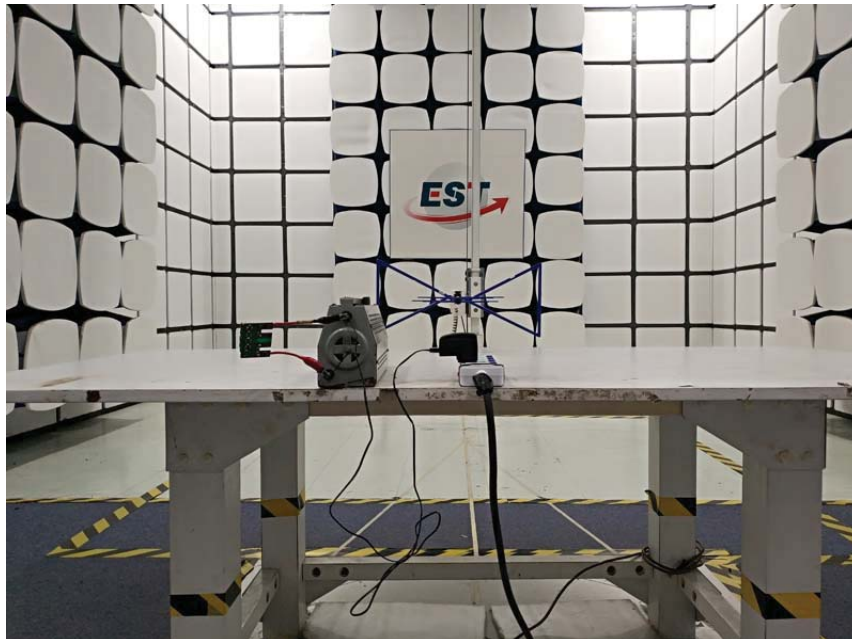
Remark: The voltage was reduced during the test, but self-recoverable after the test.

6. PHOTOGRAPHS OF TEST SET-UP

6.1.Set-up for Conducted Emission at the Mains Terminals Test



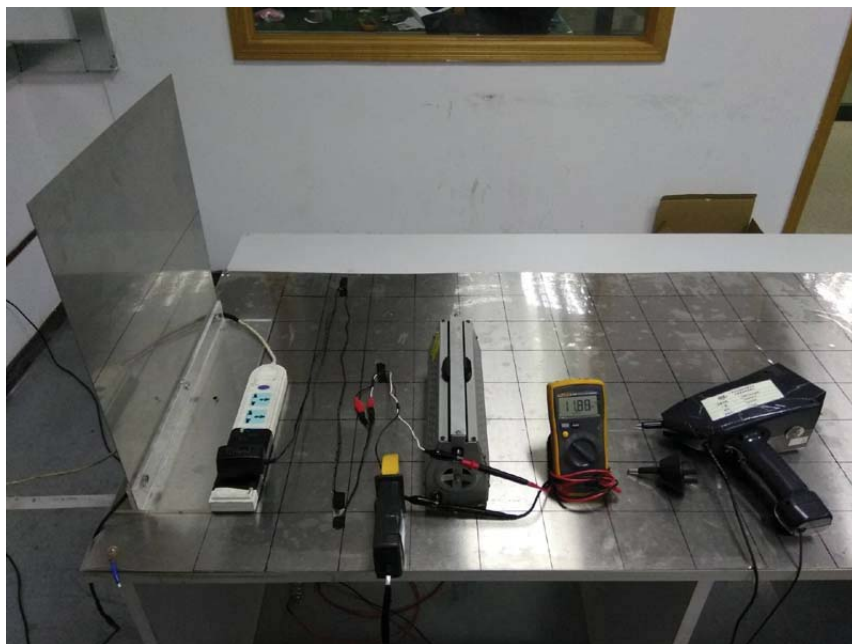
6.2.Set-up for Radiated Emission Test



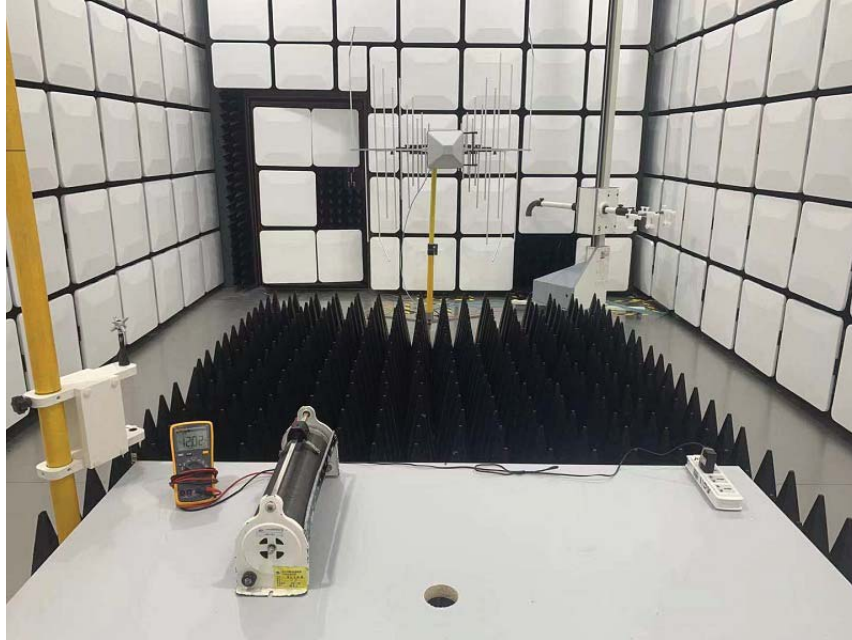
6.3. Set-up for Harmonic Current Emissions and Flicker on AC Mains Test



6.4. Set-up for Electrostatic Discharge Immunity Test



6.5.Set-up for Radio Frequency Electromagnetic Field Immunity(R/S) Test



6.6.Set-up for Electrical Fast Transient/Burst Immunity Test



6.7.Set-up for Surge Immunity Test



6.8.Set-up for Power Frequency Magnetic Field Immunity Test



6.9.Set-up for Injected Currents Susceptibility Test



6.10.Set-up for Voltage Dips and Short Interruptions Immunity Test



7. PHOTOGRAPHS OF THE EUT

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT



Figure 3
General Appearance of the EUT



Figure 4
General Appearance of the EUT



Figure 5
General Appearance of the EUT



Figure 6
General Appearance of the EUT



Figure 7
General Appearance of the EUT



Figure 8
General Appearance of the EUT



End of Test Report