APPLICATION FOR CERTIFICATION

On Behalf of

Powertech Industrial Co Ltd

Green Power Surge Protector

Model No.: (1)R9P125NI00 (2)R9P130NI00

FCC ID: NHS-R9P125

Prepared for: Powertech Industrial Co Ltd

10F, No. 407, Chung Shan Rd., Sec 2 Chung Ho City, Taipei Hsien, 235 Taiwan

Prepared by: AUDIX Technology Corporation

EMC Department

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File Number : C1M1009159 Report Number : EM-F990986

Date of Test : Sep. 29 ~ Oct. 29, 2010

Date of Report : Oct. 29, 2010

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TEST REPORT CERTIFICATION

Applicant : Powertech Industrial Co Ltd

EUT Description : Green Power Surge Protector

FCC ID : NHS-R9P125

(A) MODEL NO. : (1)R9P125NI00 (2)R9P130NI00

(B) SERIAL NO. : N/A

(C) POWER SUPPLY: AC 125V

(D) TEST VOLTAGE : AC 120V/60Hz

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, October 2009 AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.207, §15.249, §15.209)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test: Sep. 29 ~ Oct. 29, 2010 Date of Report: Oct. 29, 2010

Producer: Switz Lohn

(Julie Hsu/Administrator)

- Cory

Reviewer:

Signatory:

(Henning Chang/Supervisor)

(Ren Cheng/Managar)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Green Power Surge Protector

(Transceiver)

FCC ID : NHS-R9P125

Model Number : (1)R9P125NI00 (2)R9P130NI00

The models differences are as follow:

Ito	em	Model
	single	R9P125NI
With Relay	Package	R9P129NI00 {R9P125NI00 + R9P014 (FCC ID: NHS-R9P014)}
	single	R9P130NI
Without Relay	Package	R9P131NI00 {R9P130NI00 + R9P014 (FCC ID: NHS-R9P014)}

Remark: The FCC ID Number is NHS-R9P014 have been tested in other report of EM-F990986.

The M/N R9P125NI is representative selected to test in this report.

Applicant : Powertech Industrial Co Ltd

10F, No. 407, Chung Shan Rd., Sec 2 Chung Ho

City, Taipei Hsien, 235 Taiwan

Fundamental Frequency : 915MHz

AC Rating : 15A/125V

Date of Receipt of Sample : Sep. 15, 2010

Date of Test : Sep. 29 ~ Oct. 29, 2010

1.2. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**

EMC Department

No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,

Taipei Hsien, Taiwan.

Test Facility & Location

(C2/AC)

No. 2 Shielded Room &

Semi-Anechoic Chamber

No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,

Taipei Hsien, Taiwan.

Renewal on May 14, 2009

Federal Communication Commission

Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

1.3. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
	30MHz~300MHz	± 2.91dB
Radiation Test (Distance: 3m)	300MHz~1000MHz	± 2.94dB
(Distance, 3111)	Above 1GHz	± 5.02dB

Remark : Uncertainty = $ku_c(y)$

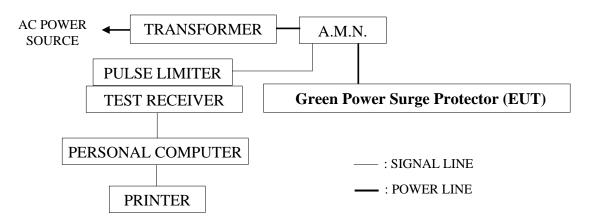
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment were used during the power line conducted measurement: (No. 2 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100339	Mar. 10, 10'	Mar. 09, 11'
2.	A.M.N.	R & S	ESH2-Z5	890485/023	Jan. 15, 10'	Jan. 14, 11'
3.	Pulse Limiter	R & S	ESH3-Z2	001	Feb. 08, 10'	Feb. 07, 11'

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit (§15.207)

Frequency	Maximum RF	Line Voltage
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBµV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT as shown on 2.2.
- 2.4.2. Turn on the power of all equipment.
- 2.4.3. The EUT was on Tranceive function at work during all testing.

2.5. Test Procedure

The EUT was put on table which was above the ground by 80cm and its power cord was connected to power mains through an Artificial Mains Network (A.M.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to FCC ANSI C63.4-2003 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

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

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Powerline Conducted Emission Measurement Results

PASSED.

All emissions not reported below are too low against the prescribed limits.

The EUT was measured during this section testing and all the test results are listed in next pages.

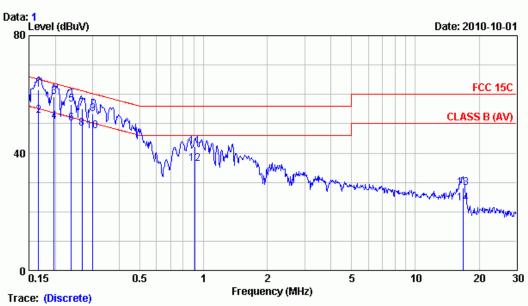
EUT: Green Power Surge Protector M/N: R9P125NI00

Test Date : Oct. 01, 2010 Temperature : 24°C Humidity : 54%

Mode	Test Mode	Reference	Test Data
Wrode Test Wrode		Neutral	Line
1.	Transceive	# 1	# 2



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Data

Site : No.2 Shielded room

Condition : ESH3-Z5 Phase : NEUTRAL

Limit : FCC 15C

Env. / Ins. : 24*C,54% / ESCS 30 (339) Engineer: Charles Yuan

EUT : R9P125NIO0
Power Rating : 120Vac/60Hz
Test Mode : operating

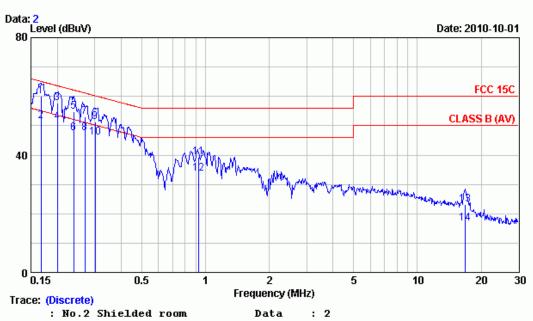
		AMN	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBµV)	(dBµV)	(dBµV)	(dB)	
1	0.167	0.10	0.24	61.31	61.65	65.12	3.47	QP
2	0.167	0.10	0.24	52.27	52.61	55.12	2.51	AVERAGE
3	0.198	0.10	0.26	58.71	59.07	63.72	4.65	QP
4	0.198	0.10	0.26	50.33	50.69	53.72	3.03	AVERAGE
5	0.238	0.10	0.28	56.27	56.65	62.17	5.53	QP
6	0.238	0.10	0.28	49.64	50.02	52.17	2.16	AVERAGE
7	0.267	0.10	0.29	54.84	55.23	61.21	5.98	QP
8	0.267	0.10	0.29	48.11	48.50	51.21	2.71	AVERAGE
9	0.300	0.10	0.30	52.91	53.31	60.24	6.93	QP
10	0.300	0.10	0.30	47.13	47.53	50.24	2.71	AVERAGE
11	0.915	0.10	0.39	41.61	42.10	56.00	13.90	QP
12	0.915	0.10	0.39	35.71	36.20	46.00	9.80	AVERAGE
13	16.751	0.60	0.70	26.96	28.26	60.00	31.74	QP
14	16.751	0.60	0.70	21.54	22.84	50.00	27.16	AVERAGE

Remarks: 1.Emission Level= AMN 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.



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Site : No.2 Shielded room Data : 2 Condition : ESH3-Z5 Phase : LINE

Limit : FCC 15C

Env. / Ins. : 24*C,54% / ESCS 30 (339) Engineer: Charles Yuan

EUT : R9P125NIOO
Power Rating : 120Vac/60Hz
Test Mode : operating

		AMN	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBµV)	(dBµV)	(dBµV)	(dB)	
1	0.168	0.10	0.25	59.82	60.17	65.08	4.91	QP
2	0.168	0.10	0.25	51.15	51.50	55.08	3.58	AVERAGE
3	0.200	0.10	0.26	57.44	57.80	63.60	5.80	QP
4	0.200	0.10	0.26	50.90	51.26	53.60	2.34	AVERAGE
5	0.239	0.10	0.28	54.51	54.89	62.13	7.24	QP
6	0.239	0.10	0.28	46.99	47.37	52.13	4.76	AVERAGE
7	0.269	0.10	0.29	52.74	53.13	61.13	8.01	QP
8	0.269	0.10	0.29	47.10	47.49	51.13	3.65	AVERAGE
9	0.301	0.10	0.30	50.93	51.33	60.20	8.88	QP
10	0.301	0.10	0.30	45.59	45.99	50.20	4.22	AVERAGE
11	0.924	0.10	0.39	38.66	39.15	56.00	16.85	QP
12	0.924	0.10	0.39	33.15	33.64	46.00	12.36	AVERAGE
13	16.750	0.74	0.70	21.62	23.06	60.00	36.94	QP
14	16.750	0.74	0.70	15.22	16.66	50.00	33.34	AVERAGE

Remarks: 1.Emission Level= AMN 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.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100339	Mar. 10, 10'	Mar. 09, 11'
2.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 27, 10'	Oct. 26, 11'
3.	Pre-Amplifier	HP	8447D	2944A06305	Feb. 03, 10'	Feb. 02, 11'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 13, 10'	Mar. 12, 11'
5.	Log Periodic	Schwarzbeck	UHALP	0810	Mar. 13, 10'	Mar 12 11'
	Antenna	Schwarzbeck	9108-A	0010	Wiai. 13, 10	14141. 12, 11

3.1.2. For Frequency Range Above 1GHz (Semi-Anechoic Chamber)

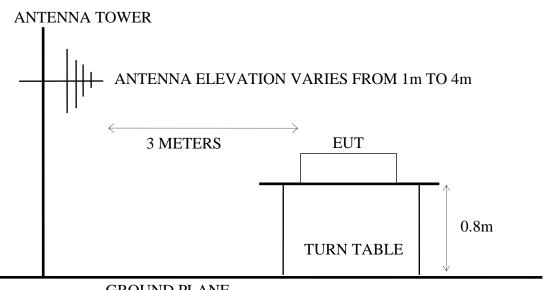
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 27, 10'	Oct. 26, 11'
2.	Amplifier	HP	8449B	3008A00529	Dec. 15, 09'	Dec. 14, 10'
3.	Horn Antenna	EMCO	3115	9112-3775	May 10, 10'	May 09, 11'

3.2. Test Setup

3.2.1. Block Diagram of connection between EUT and simulators

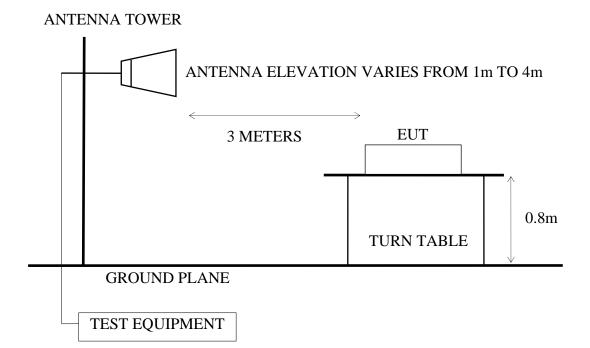
Green Power Surge Protector (EUT)

3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



GROUND PLANE

3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits (§15.209)

FREQUENCY	DISTANCE	FIELD STREN	GTHS LIMITS
MHz	Meters	μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dBµV	/m (Peak)
		54.0 dBμV/m (Average)	

Remark : (1) Emission level (dB μ V/m) = 20 log Emission level (μ V/m)

- (2) The tighter limit applies at the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
- (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Fundamental Frequency Limits (§15.249)

FUNDAMENTAL	QP
FREQUENCY	
MHZ	
902-928	94 dBμV/m

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT as shown on 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. The EUT was on Tranceive function at work during all testing.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 10GHz (Up to 10th harmonics from fundamental frequency) was checked.

3.7. Radiated Emission Measurement Test Results

PASSED.

(All emissions not reported below are too low against the prescribed limits.)

EUT: Green Power Surge Protector M/N: R9P125NI00

Test Date : Sep. 29, 2010 Temperature : 26° C Humidity : 53% Test Date : Oct. 29, 2010 Temperature : 26° C Humidity : 53%

For Frequency Range 30MHz~1000MHz:

The EUT was measured during this section testing and all the test results are listed in section 3.7.1.

Mode	Test Mode	Reference Test Data			
Mode	Test Mode	Horizontal	Vertical		
1.	Transceive	#7	# 8		

^{*} Above all final readings were measured with Quasi-Peak detector.

For Out of Band:

The EUT was measured during this section testing and all the test results are listed in section 3.7.2.

Mode	Test Mode	Reference	Test Data
Mode	Test Wode	Horizontal	Vertical
1.	Transceive	# 2	# 1

For Frequency above 1GHz:

The EUT with the following test modes was measured within semi-anechoic chamber. All the graphical results are listed in section 3.7.3.

NO.	Test Mode	Test Frequency Range
1.		1000-2680MHz
2.	Transceive	2680-5500MHz
3.		5500-10000MHz

^{*} Above emissions level is too low to be measured, therefore, the reading values not reported.

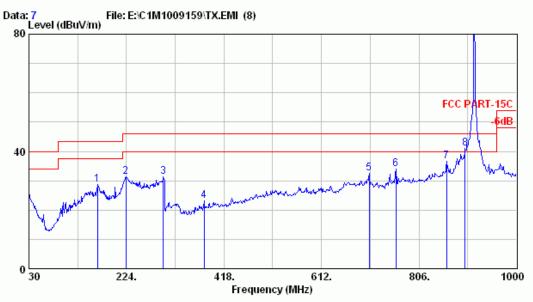
For Fundamental Frequency:

The EUT was measured during this section testing and all the test results are listed in section 3.7.4.

3.7.1. Frequency Range 30-1000MHz



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Site no. : A/C Chamber Data no. : 7

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL

Limit : FCC PART-15C

Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

EUT : Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NIOO

Test Mode : operating

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)		Margin Remark (dB)
1	166.770	20.96	2.70	5.18	28.84	43.50	14.66
2	223.030	21.94	3.30	6.17	31.41	46.00	14.59
3	297.720	26.68	3.98	0.81	31.47	46.00	14.53
4	378.230	17.19	4.60	1.33	23.12	46.00	22.88
5	707.060	23.55	6.60	2.31	32.46	46.00	13.54
6	760.410	23.66	6.75	3.47	33.88	46.00	12.12
7	861.290	26.09	7.20	3.45	36.74	46.00	9.26
8	898.150	24.98	7.30	8.85	41.13	46.00	4.87

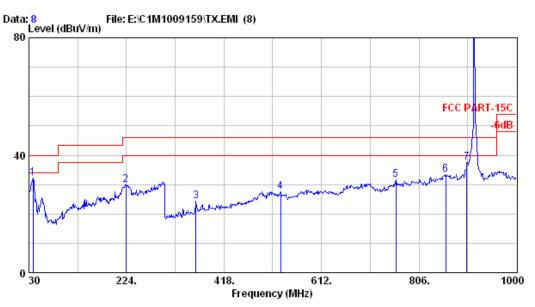
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

3. All readings are Quasi-Peak values.



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Site no. : A/C Chamber Data no. : 8

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL

Limit : FCC PART-15C

Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

EUT : Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NIOO

Test Mode : operating

	Freq. (MHz)	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)		Margin Remark (dB)	
1	37.760	21.58	1.20	9.59	32.37	40.00	7.63	
2	223.030	21.94	3.30	4.68	29.92	46.00	16.08	
3	362.710	16.38	4.50	3.35	24.23	46.00	21.77	
4	530.520	19.70	6.90	1.03	27.63	46.00	18.37	
5	760.410	23.66	6.75	1.25	31.66	46.00	14.34	
6	859.350	26.01	7.20	0.32	33.52	46.00	12.48	
7	901.060	24.95	7.40	5.22	37.57	46.00	8.43	

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

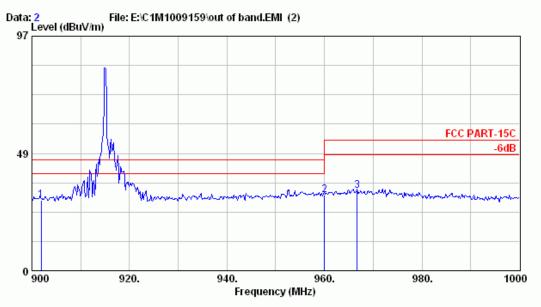
2. The emission levels that are 20dB below the official limit are not reported.

3. All readings are Quasi-Peak values.

3.7.2. Out of Band



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Site no. : A/C Chamber Data no. : 2

Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : HORIZONTAL

: FCC PART-15C Limit

Engineer : Jarwei Wang

Env. / Ins. : 8564EC 26*C /53%
EUT : Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NI00

: operating Test Mode

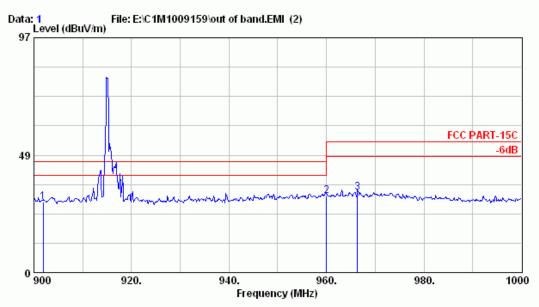
		Ant.	Cable		Emission		
	Freq. (MHz)			Reading (dBµV)	Level (dBµV/m)		Margin Remark (dB)
1	901.900	24.92	7.40	-3.28	29.04	46.00	16.96
2	960.000	26.42	7.60	-2.76	31.26	46.00	14.74
3	966.700	26.89	7.70	-1.60	33.00	54.00	21.00

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

2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber Data no. : 1

Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : VERTICAL

Limit : FCC PART-15C

Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

EUT : Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NIOO

Test Mode : operating

	Freq. (MHz)	Factor			Emission Level (dBµV/m)		Margin Remark (dB)
1 2 3	901.900 960.000 966.400	26.42	7.60	-3.16 -2.44 -1.58	29.15 31.59 33.02	46.00 46.00 54.00	16.85 14.41 20.98

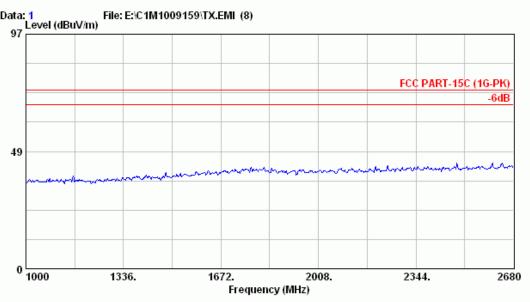
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

3.7.3. Frequency Range 1000-10000MHz



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Site no. : A/C Chamber Data no. : 1

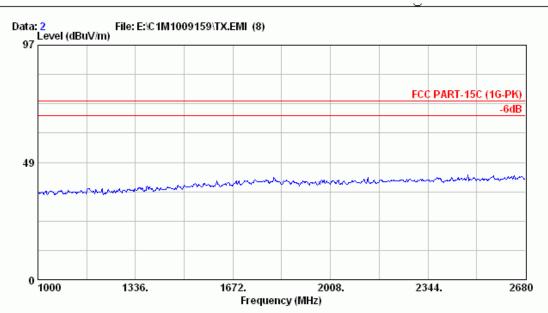
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-PK)

Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

EUT : Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NIOO

Test Mode : operating



Site no. : A/C Chamber Data no. : 2

Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-PK)

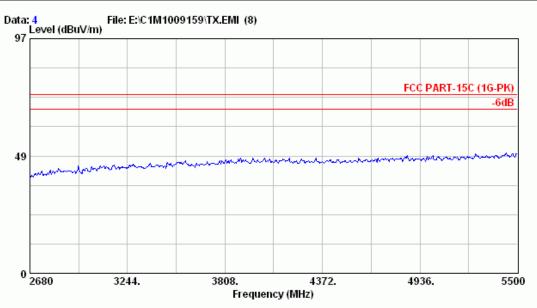
Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

EUT : Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NIO0

Test Mode : operating



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Site no. : A/C Chamber Data no. : 4

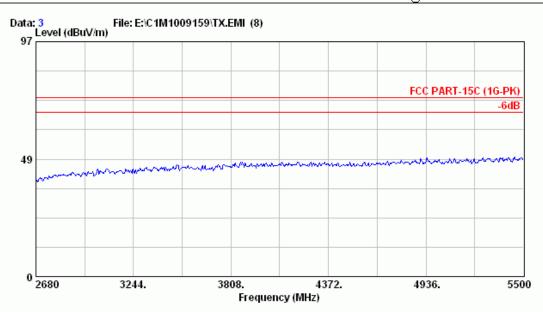
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-PK)

Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

: Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NI00

Test Mode : operating



: A/C Chamber Site no.

Data no. : 3 Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115(4927)

: FCC PART-15C (1G-PK) Limit

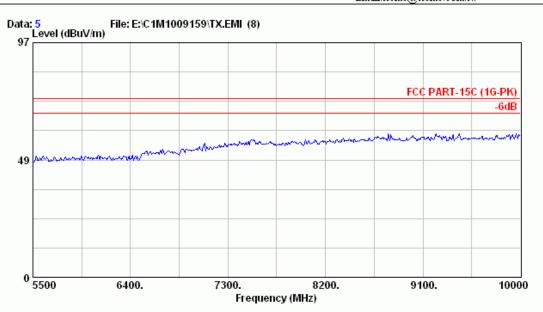
Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

: Green Power Surge Protector Power Rating: 120Vac/60Hz M/N:R9P125NIO0

Test Mode : operating



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Site no. : A/C Chamber Data no. : 5

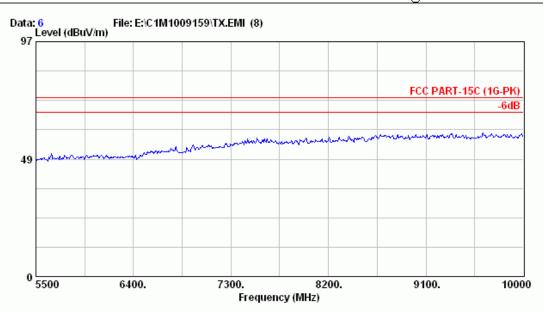
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

: FCC PART-15C (1G-PK) Limit

Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

: Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NI00

Test Mode : operating



: A/C Chamber Site no.

Data no. : 6 Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115(4927)

: FCC PART-15C (1G-PK) Limit

Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

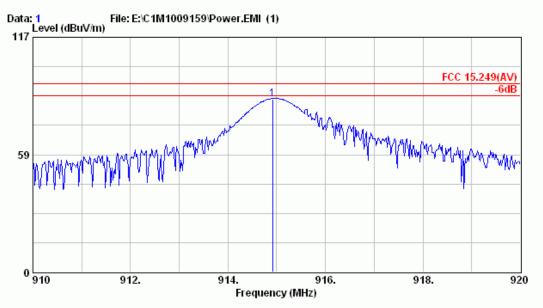
: Green Power Surge Protector Power Rating: 120Vac/60Hz M/N:R9P125NIO0

Test Mode : operating

3.7.4. Fundamental Frequency



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Site no. : A/C Chamber Data no. : 1

Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : HORIZONTAL

Limit : FCC 15.249(AV)

Env. / Ins. : 8564EC 26*C /53% Engineer : Jarwei Wang

EUT : Green Power Surge Protector Power Rating : 120Vac/60Hz M/N:R9P125NIO0

Test Mode : operating

		Ant.	Cable		Emission				
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)		
									-
1	914.920	24.92	7.40	53.70	86.02	94.00	7.98	QP	

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

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. Because fundament frequency peak values have bee lower than the average limit, so most don't measure the average value.

4. DEVIATION TO TEST SPECIFICATIONS

[NONE]