

**SK TECH CO., LTD.**

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# Certificate of Compliance

Test Report No.:	SKTFCE-041204-104		
NVLAP CODE :	200220-0		
Applicant:	SPACESENSING CO., LTD.		
Applicant Address:	#150, TechnoPark A Dong 709 Yatap-Dong, Bundang-Gu, SungNam-Si, GyeongGi-Do, Korea 463-760		
Manufacturer:	SPACESENSING CO., LTD.		
Manufacturer Address:	#150, TechnoPark A Dong 709 Yatap-Dong, Bundang-Gu, SungNam-Si, GyeongGi-Do, Korea 463-760		
Product:	Multi-functional Wireless Receiver	FCC ID	STLSW-R120
Model No.:	SW-R120	Serial No.:	N/A
Buyer Model/ Multi Model No	N/A		
Receipt No.:	SKTEU04-0520	Date of receipt:	Nov. 10 , 2004
Date of Issue:	Dec.04.2004		
Testing location:	SK TECH CO., LTD. 820-2, Wolmoon-Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea		
Test Standards:	ANSI C63.4 / 2003		
Rule Parts:	FCC part 15 Subpart B /This Class B digital apparatus complies with Canadian ICES-003		
Equipment Class :	Class B Digital Device Peripheral		
Test Result:	The above mentioned product has been tested and passed.		

Tested by: J.S.Hyun /Engineer

Approved by: C.H.Jeong/Manager &amp; Chief Engineer

Dec. 04, 2004

Dec. 04, 2004

Signature

Date

Signature

Date

Other Aspects :

Abbreviations : • OK, Pass = passed • Fail = failed • N/A = not applicable



- This test report is not permitted to copy partly without our permission.
- This test result is dependent on only equipment to be used.
- This test result is based on a single evaluation of one sample of the above mentioned.
- This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S Government.
- We certify that this test report has been based on the measurement standards that is traceable to the national or International standards.

NVLAP Lab. Code: 200220-0

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## **1. General**

This equipment has been shown to be capable of compliance with the applicable technical standards and was tested in accordance with the measurement procedures as indicated in this report.

We attest to the accuracy of data. All measurements reported herein were performed by SK Tech Co., Ltd. and were made under Chief Engineer's supervision.

We assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

## **2. Test Site**

SK TECH Co., Ltd.

### **2.1 Location**

820-2, Wolmoon Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea

The test site is in compliance with ISO/IEC 17025 for general requirements for the competence of testing and calibration laboratories.

This laboratory is accredited by NVLAP for NVLAP Lab. Code : 200220-0 and DATech for DAR-Registration No.:DAT-P-076/97-01



## 2.2 List of Test and Measurement Instruments

**Table 1 : List of Test and Measurement Equipment**

### ■ Conducted Disturbance

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESHS10	862970/019	10.2005
Artificial Mains Network	ESH2-Z5	834549/011	08.2005
EMI Receiver	ESHS10	835871/002	10.2005
Artificial Mains Network	ESH3-Z5	836679/018	08.2005

### ■ Radiated Disturbance

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESVS 10	825120/013	10.2005
EMI Receiver	ESVS 10	834468/008	10.2005
Spectrum Analyzer	R3361A	11730187	10.2005
Amplifier	8447F	3113A05153	08.2005
Log Periodic Antenna	UHALP9107	1819	10.2005
Biconical Antenna	BBA9106	91031626	10.2005
Open Site Cable	N/A	N/A	N/A
Antenna Turntable Driver	5907	N/A	N/A
Antenna Turntable controller	5906	N/A	N/A
Amp & Receiver connection cable	N/A	N/A	N/A
Amp & Spectrum connection cable	N/A	N/A	N/A
50Ω Switcher	MP59B	6100214538	N/A

## 2.3 Test Date

Date of Application : Nov. 10, 2004

Date of Test : Nov. 13, 2004 ~ Nov. 22, 2004

## 2.4 Test Environment

See each test item's description.



### **3. Description of the tested samples**

The EUT is the Multi-functional Wireless Receiver.

#### **3.1 Ratings and Physical Characteristics**

OS	Windows 98, 2000, ME, XP
System	IBM PC compatible
Interface	USB
Power	5V PC USB Power
Size	25mm(W)*50mm(L)*13mm(H)
Memory	128MB Flash Memory

#### **3.2 Submitted Documents**

N/A



## 4. Measurement Conditions

Operating of EUT voltage is PC USB Power

### 4.1 Modes of Operation

The EUT was in the following operation mode during all testing;

During all tests, the EUT was connected with the PC.

The EUT received wireless mouse signal continuously.

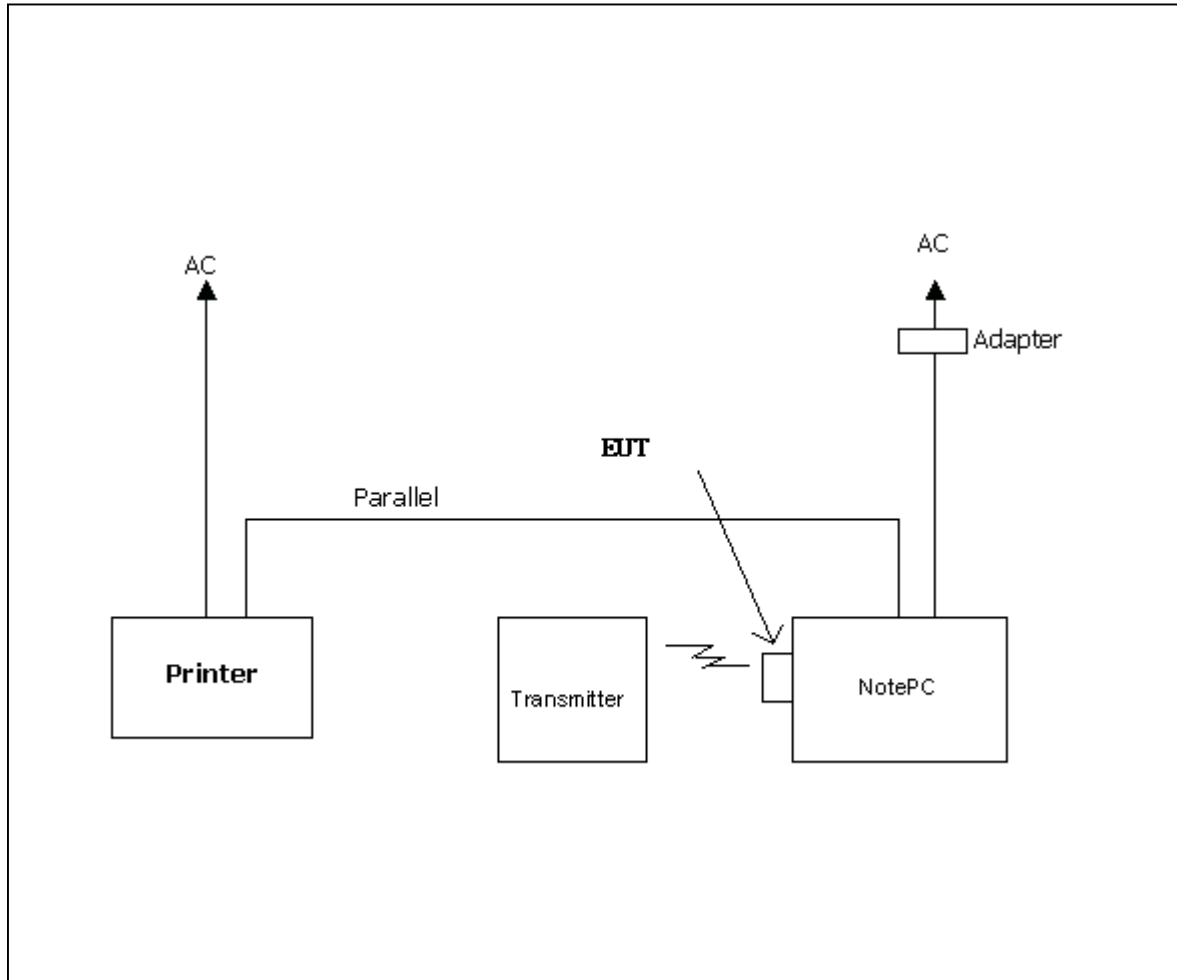
### 4.2 Additional Equipments

Equipment	Manufacturer	Model No.	Serial No.
Notebook PC	LG IBM PC	2681-LK6	FX-P2816
Adapter (for Notebook PC)	Astec Electronics Co., Ltd.	08K8202	11S08K8202Z1 Z6LR38F053
Printer	Epson Precision (Philippines) Inc.	Epson Stylus 830	ELTK014633
Transmitter	SPACESENSING	SW-T100	



## 4.3 Test Setup

The test setup photographs showed the external supply connections and interfaces.



[ System Block Diagram of Test Configuration ]





## 4.4 Uncertainty

### 1) Radiated disturbance

⊙ Horizontally polarized radiated disturbances from 30MHz to 1000MHz at a distance of 10m

Input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver reading	±0.1	K=1	0.1	1	<b>0.1</b>	0.10
2) Attenuation: antenna-receiver	±0.18	K=2	0.09	1	<b>0.09</b>	0.05
3) Antenna factor	±1.5	K=2	0.75	1	<b>0.75</b>	1.00
RECEIVER CORRECTIONS:						
4) Sine wave voltage	±0.56	K=2	0.28	1	<b>0.50</b>	0.50
5) Pulse amplitude response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
6) Pulse repetition rate response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
7) Noise floor proximity	±0.5	K=2	0.25	1	<b>0.25</b>	0.25
8) AF frequency interpolation	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
9) Balance	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.53
10) AF height deviations	±0.5	Rectangular (√3)	0.29	1	<b>0.29</b>	0.29
11) Phase center location	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
12) Directive difference	+1.0	Rectangular (√3)	0.29	1	<b>0.29</b>	0.29
13) Cross polarization	±0.9	Rectangular (√3)	0.52	1	<b>0.52</b>	0.52
14) Site corrections	±2.6	Rectangular (√3)	1.5	1	<b>1.5</b>	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped (√2)	0.75	1	<b>0.75</b>	0.67

Combined Uncertainty

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2 + (9)^2 + (10)^2 + (11)^2 + (12)^2 + (13)^2 + (14)^2 + (15)^2} = 2.37$$

Expanded Uncertainty

$$U = k \cdot U_c(x_i) = 2 \cdot 2.37 = \mathbf{4.74dB} \text{ (The coverage factor } k=2 \text{ yields approximately a 95\% level of confidence)}$$



⊙ Vertically polarized radiated disturbances from 30MHz to 1000MHz at a distance of 10m

Input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver reading	±0.1	K=1	0.1	1	<b>0.1</b>	0.10
2) Attenuation: antenna-receiver	±0.18	K=2	0.09	1	<b>0.09</b>	0.05
3) Antenna factor	±1.5	K=2	0.75	1	<b>0.75</b>	1.00
RECEIVER CORRECTIONS:						
4) Sine wave voltage	±0.56	K=2	0.28	1	<b>0.50</b>	0.50
5) Pulse amplitude response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
6) Pulse repetition rate response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
7) Noise floor proximity	±0.5	K=2	0.25	1	<b>0.25</b>	0.25
8) AF frequency interpolation	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
9) Balance	±0.9	Rectangular (√3)	0.52	1	<b>0.52</b>	0.52
10) AF height deviations	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
11) phase center location	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
12) directive difference	+1.0	Rectangular (√3)	0.29	1	<b>0.29</b>	0.29
13) cross polarization	±0.9	Rectangular (√3)	0.52	1	<b>0.52</b>	0.52
14) site corrections	±2.6	Rectangular (√3)	1.5	1	<b>1.5</b>	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped (√2)	0.75	1	<b>0.75</b>	0.67

Combined Uncertainty

$$Uc(xi) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2 + (9)^2 + (10)^2 + (11)^2 + (12)^2 + (13)^2 + (14)^2 + (15)^2} = \mathbf{2.43}$$

Expanded Uncertainty

$$U = k * Uc(xi) = 2 * 2.43 = \mathbf{4.86dB}$$

(The coverage factor k=2 yields approximately a 95% level of confidence)

**2) Conducted disturbance**

⊙ **Conducted disturbance from 150KHz to 30MHz using a 50Ω/50uH AMN**

input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver Reading	±0.1	K =1	0.1	1	<b>0.1</b>	0.10
2) Attenuation:AMN-receiver	±0.36	Triangular (√6)	0.15	1	<b>0.15</b>	0.05
RECEIVER CORRECTIONS:						
3) Sine wave voltage	±0.5	K=2	0.25	1	<b>0.25</b>	0.50
4) Pulse amplitude response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
5) Pulse repetition rate response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
6) AMN voltage division factor	±0.07	K=2	0.04	1	<b>0.04</b>	0.1
7) Mismatch : AMN-receiver	±0.55	U-shaped (√2)	0.39	1	<b>0.39</b>	0.53
8) AMN impedance	±1.52	Triangular (√6)	0.62	1	<b>0.62</b>	1.08

- 1)~8) For numbered comments, refer to following articles

**Combined Uncertainty**

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2} = \mathbf{1.47}$$

**Expanded uncertainty**

$$U = k \cdot U_c(x_i) = 2 \cdot 1.47 = \mathbf{2.94dB}$$

The coverage factor  $k = 2$  yields approximately a 95% level of confidence

⊙ **Refer**

- 1) receiver's resolution capacity
- 2) refer to the sub clause 11. of a calibration report
- 3) quoted from CISPR 16-4
- 4) refer to a calibration report
- 5) refer to CISPR 16-4 article 5. 7)
- 6) refer to a calibration report and a measured AMN impedance data



## 5. Test Results

### 5.1 Conducted Emissions

#### Result

**PASS**

The line-conducted facility is located inside a 2.0M x 3.6M x 7.2M shielded enclosure. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 604-05. A 1m x 1.5m wooden table 80cm. high is placed 40cm. away from the vertical wall and 1.5m away from the side wall of the shielded room. ROHDE & SCHWARZ Model ESH3-Z5 (10kHz-30MHz) 50ohm/50 uH Line-Impedance Stabilization Networks(LISNs) are bonded to the shielded room. The EUT is powered from the ROHDE & SCHWARZ LISN and the support equipment is powered from the ROHDE & SCHWARZ LISN. Power to the LISNs are filtered by a high-current high-insertion loss Lindgren enclosures power line filters (100dB 14kHz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the ROHDE & SCHWARZ LISN. All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 150kHz to 30MHz with 100msec. sweep time. The frequency producing the maximum level was reexamined using EMI/field Intensity Meter (ESHS 10) and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in photograph of conducted test. Each EME reported was calibrated using self-calibrating mode.

**✳ *Supplementing the conduction graphs and data to next 4 pages.***

**Supplement 1 : Spectral Diagram, LINE – PE**

18 Nov 2004 14:38

**CONDUCTED DISTURBANCE**

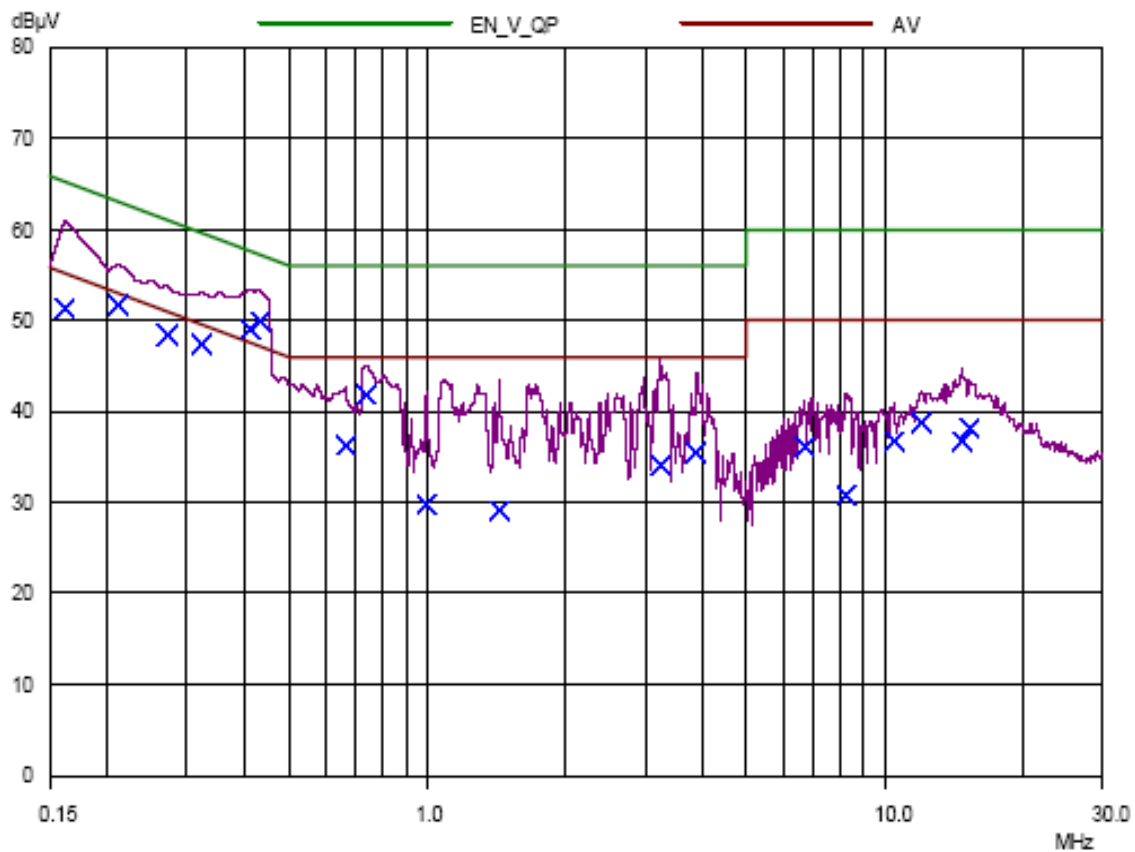
EUT: SW-R120  
Manuf:  
Op Cond:  
Operator:  
Test Spec:  
Comment: LINE-PE

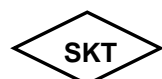
Result File: R120 L.dat : SW-R120

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement: Detector: X QP  
Meas Time: 1sec  
Peaks: 8  
Acc Margin: 35 dB



**Supplement 2 : Test Data, LINE – PE**

18 Nov 2004 14:38

**CONDUCTED DISTURBANCE**

EUT: SW-R120

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE

Result File: R120 L.dat : SW-R120

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preampl	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement:      Detector: X QP  
                                  Meas Time: 1sec  
                                  Peaks: 8  
                                  Acc Margin: 35 dB

**Final Measurement Results**

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.16	51.38	65.46	14.08
0.21	51.64	63.21	11.57
0.27	48.42	61.12	12.70
0.32	47.51	59.71	12.20
0.41	49.05	57.65	8.60
0.43	49.92	57.25	7.33
0.66	36.31	56.00	19.69
0.73	41.87	56.00	14.13
0.99	29.75	56.00	26.25
1.43	29.18	56.00	26.82
3.23	34.11	56.00	21.89
3.68	35.45	56.00	20.55
6.69	36.09	60.00	23.91
8.21	30.74	60.00	29.26
10.46	36.70	60.00	23.30
11.97	38.81	60.00	21.19
14.66	36.74	60.00	23.26
15.32	38.08	60.00	21.92

\* limit exceeded

**Supplement 3: Test Data, LINE - PE (AV)**

18 Nov 2004 14:40

**CONDUCTED DISTURBANCE**

EUT: SW-R120

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE

Result File: R120 LA.dat : SW-R120

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement:      Detector:      X AV  
                                  Meas Time:      1sec  
                                  Peaks:          8  
                                  Acc Margin:      35 dB

## Final Measurement Results

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.16	19.26	55.39	36.13
0.21	30.82	53.15	22.33
0.27	24.01	51.08	27.07
0.32	27.02	49.68	22.66
0.41	30.61	47.63	17.02
0.43	32.35	47.24	14.89

\* limit exceeded

**Supplement 4 : Spectral Diagram, Neutral – PE**

18 Nov 2004 15:05

**CONDUCTED DISTURBANCE**

EUT: SW-R120

Manuf:

Op Cond:

Operator:

Test Spec:

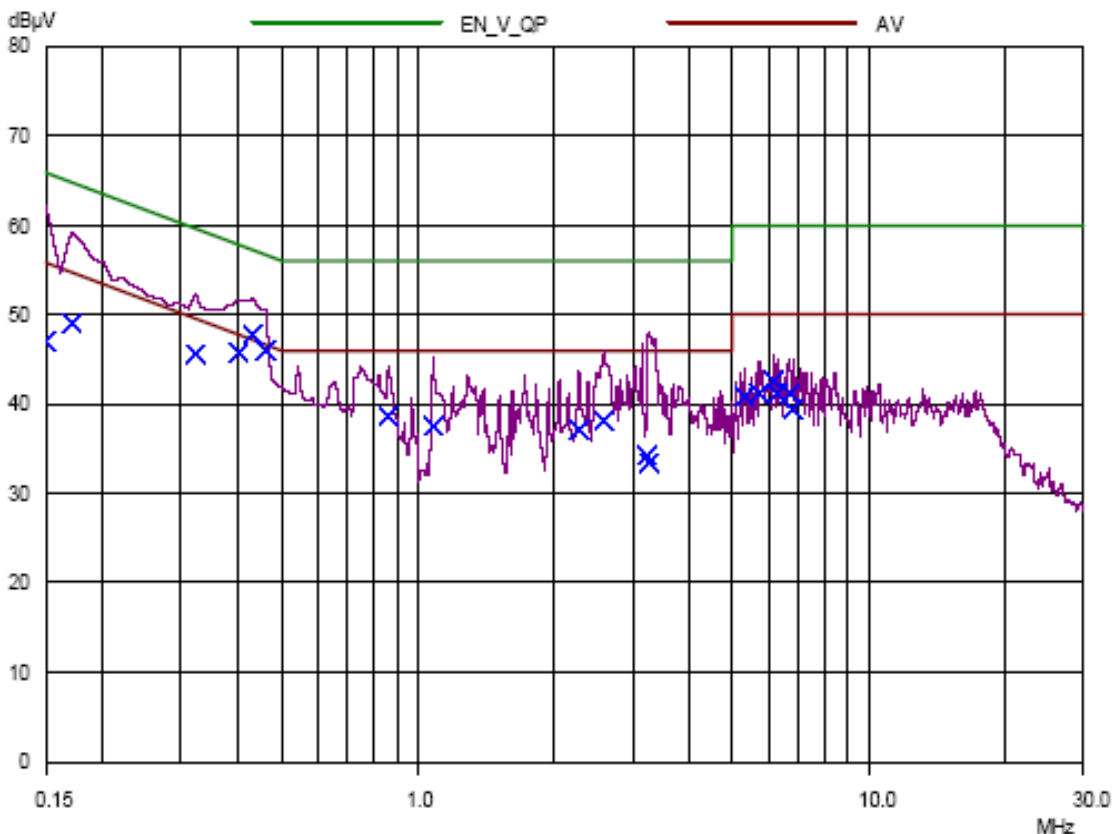
Comment: NEUTRAL-PE

Result File: R120N.dat : SW-R120

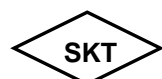
Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	35 dB





**Supplement 5 : Test Data, Neutral – PE**

18 Nov 2004 15:05

**CONDUCTED DISTURBANCE**

EUT: SW-R120  
 Manuf:  
 Op Cond:  
 Operator:  
 Test Spec:  
 Comment: NEUTRAL-PE

Result File: R120N.dat : SW-R120

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preampl	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement: Detector: X QP  
 Meas Time: 1sec  
 Peaks: 8  
 Acc Margin: 35 dB

**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15	47.09	66.00	18.91
0.17	48.97	64.96	15.99
0.32	45.48	59.71	14.23
0.4	45.78	57.85	12.07
0.43	47.76	57.25	9.49
0.46	46.02	56.69	10.67
0.86	38.53	56.00	17.47
1.08	37.64	56.00	18.36
2.27	37.16	56.00	18.84
2.59	38.14	56.00	17.86
3.23	34.35	56.00	21.65
3.25	33.50	56.00	22.50
5.29	40.85	60.00	19.15
5.72	41.33	60.00	18.67
6.15	42.77	60.00	17.23
6.26	41.26	60.00	18.74
6.69	41.29	60.00	18.71
6.8	39.45	60.00	20.55

\* limit exceeded

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**Supplement 6: Test Data, Neutral - PE (AV)**

18 Nov 2004 15:07

**CONDUCTED DISTURBANCE**

EUT: SW-R120  
 Manuf:  
 Op Cond:  
 Operator:  
 Test Spec:  
 Comment: NEUTRAL-PE  
 Result File: R120NA.dat : SW-R120

**Scan Settings (1 Range)**

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement: Detector: X AV  
 Meas Time: 1sec  
 Peaks: 8  
 Acc Margin: 35 dB

**Final Measurement Results**

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15	13.01	55.92	42.91
0.17	17.01	54.89	37.88
0.32	34.29	49.68	15.39
0.4	26.27	47.84	21.57
0.43	36.87	47.24	10.37
0.46	21.79	46.69	24.90

\* limit exceeded



## 5.2 Radiated Emissions

### Result

**PASS**

Preliminary measurements were made indoors at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 300 MHz using biconical antenna and from 300 to 1000 MHz using log-periodic antenna. Above 1GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 10meter test range using SCHWARZBECK dipole antennas. The test equipment was placed on a wooden table situated on a 4x4 meter area adjacent to the measurement area. Turntable was to protect from weather in the dome that made with FRP. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter(ESVS 10) and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1MHz depending on the frequency or type of signal.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table.

The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed, and/or support equipment, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of radiated emission test. Each EME reported was calibrated using self-calibrating mode.

**Table 2 : Test Data, Radiated Emissions**

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
30.36	V	1.1	13.9	18.9	0.4	19.3	33.2	40.0	6.8
193.88	V	1.7	14.5	16.0	2.3	18.3	32.8	43.5	10.7
200.64	H	1.2	16.0	16.2	2.4	18.6	34.6	43.5	8.9
486.37	H	3.7	14.9	18.5	4.4	22.9	37.8	46.0	8.2
578.19	V	4.0	11.7	20.6	5.4	26.0	37.7	46.0	8.3
721.41	V	1.1	10.4	22.4	6.2	28.6	39.0	46.0	7.0

**NOTES:**

1. All modes of operation were investigated  
and the worst-case emission are reported.
2. All other emission are non-significant.
3. All readings are calibrated by self-mode in receiver.
4. Measurements using CISPR quasi-peak mode.
5. H = Horizontal, V = Vertical Polarization
6. DATA = Real Reading + T-FACTOR(=Antenna + Cable)
7. Margin = Limit - DATA