

FCC TEST REPORT

REPORT NO.: RF910220R03

MODEL NO.: SL-2511SR, EL-2511SR

RECEIVED: Feb. 22, 2002

TESTED: Feb. 19 ~ Feb. 26. 2002

APPLICANT: SENAO INTERNATIONAL CO., LTD.

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ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,

Taiwan, R.O.C.

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0528 ILAC MRA nvlap

Lab Code: 200102-0



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CERTIFICATION

PRODUCT: 2-Port Switch Wireless Router

BRAND NAME: SENAO, EnGenius

SL-2511SR (For SENAO), EL-2511SR (For EnGenius) MODEL NO.:

APPLICANT: SENAO INTERNATIONAL CO., LTD.

STANDARDS: 47 CFR Part 15, Subpart C (Section 15.247),

ANSI C63.4-1992, Canada RSS 210.

New Zealand RFS 29

We, Advance Data Technology Corporation, hereby certify that one sample of the designation has been tested in our facility from Feb. 19, 2002 to Feb. 26, 2002. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Gary Chang, DATE: Mar. 4, 2002

Gary Chang

CHECKED BY: Anna Kuo, DATE: Mar. 4, 2002

Anna Kuo

APPROVED BY: Dr. Alan Lang, DATE: Mar. 4, 2002

APPROVED BY:

Dr. Alan Lane Manager



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C							
Standard Section	Test Type and Limit	Result	REMARK				
	AC Dower Conducted Emission		Meet the requirement of limit				
15.207	AC Power Conducted Emission Limit: 48dBuV	PASS	Minimum passing margin is –4.34dBuV at 0.575MHz				
Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz		PASS	Meet the requirement of limit				
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit				
	Radiated Emissions		Meet the requirement of limit				
15.247(c)	Limit: Table 15.209	PASS	Minimum passing margin is –3.60dBuV at 200.00 MHz				
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit				
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit				



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	2-Port Switch Wireless Router
MODEL NO.	SL-2511SR, EL-2511SR
POWER SUPPLY	5VDC from AC adapter
MODULATION TYPE	BPSK, QPSK, CCK
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	15.48dBm
ANTENNA TYPE	Dipole antenna
POWER CABLE	NA
I/O PORTS	WAN port, LAN port, and Serial port
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT is operated with the following power adapter.

Brand Name :	Sino-Ameircan
Model No.:	SA125A-1220V-S
Input Power:	100-240V, 50-60Hz, 0.8A
Output Power :	12V, 1.5A

2. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided in this EUT.

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

NOTE:

- 1. Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
- 2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 2-Port Switch Wireless Router. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart C. (15.247)

ANSI C63.4: 1992, Canada RSS 210, New Zealand RFS 29

All tests have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Personal	HP	Brio BA410	SG12902766	FCC DoC
	Computer				APPROVED
2	MONITOR	ADI	937G	83201CT20100199	BR8937G
3	PS/2	FORWARD	FDA-104GA	FDKB8110111	F4ZDA-104G
	KEYBOARD				
4	PS/2 MOUSE	LOGITECH	M-S43	LZE00703207	DZL211106
5	PRINTER	HP	2225C+	3123S97230	DSI6XU2225
6	MODEM	ACEEX	1414	980020510	IFAXDM1414
7	Notebook	Dell	PP01L	TW-09C748-12800-	FCC DoC
				19O-B220	APPROVED
8	USB 10/100 Fast	D-Link	DU-E100	UR15001597	FCC DoC
	Ethernet				APPROVED

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA
3	1.5 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
4	1.8 m foil shielded wire, terminated with PS/2 connector via drain wire, w/o core.
5	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic
	frame, w/o core.
6	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame,
	w/o core.
7	NA
8	NA

OTE: All power cords of the above support units are non shielded (1.8m).



4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

EDECLIENCY (MILL)	Class B (dBuV)				
FREQUENCY (MHz)	Quasi-peak	Average			
0.45 – 30	48	-			

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- All emanations from a class B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL	
ROHDE & SCHWARZ Test Receiver	ESHS30	828109/007	July 4, 2002	
ROHDE & SCHWARZ Artificial	ESH3-Z5	839135/006	July 2, 2002	
Mains Network (for EUT)	ESH3-25	639133/000	July 3, 2002	
* ROHDE & SCHWARZ	ENY41	838119/028	Dog 2 2002	
4-wire ISN	⊏IN I 4 I	030119/020	Dec. 2, 2002	
* ROHDE & SCHWARZ	ENY22	837497/016	Dec. 2, 2002	
2-wire ISN	EN 1 ZZ	0374977010	Dec. 2, 2002	
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	July 3, 2002	
Software	Cond-V2L	NA	NA	
RF cable (JYEBAO)	5D-FB	Cable-C02.01	July 5, 2002	
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 20, 2003	
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 20, 2003	
Shielded Room	Site 2	ADT-C02	NA	
VCCI Site Registration No.	Site 2	C-240	NA	

NOTE:

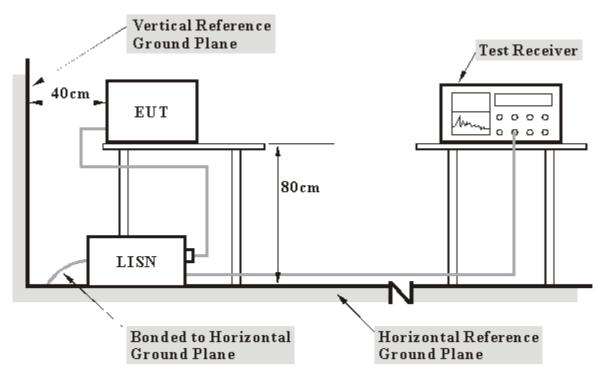
- 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 3. "*" = These equipments are used for the final measurement.



4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 450 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



4.1.5 EUT OPERATING CONDITIONS

- a. Placed the EUT (with a computer system) on the testing table.
- b. The computer system sent data to EUT by command "PIN" via an RJ 45 cable.
- c. The computer system sent "H" messages to Color Monitor and Monitor displayed "H" patterns on its screen.
- d. The computer system sent "H" messages to modem.
- e. The computer system sent "H" messages to printer, and the printer prints them on paper.
- f. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- g. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ 45 cable.
- h. The communication partner sent data to EUT by command "PIN".

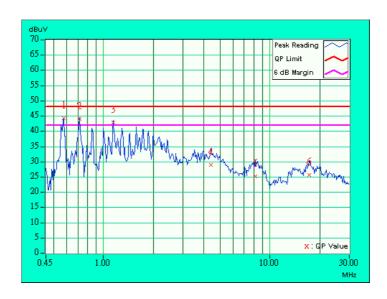


4.1.6 TEST RESULTS

EUT	2-Port Switch Wireless	MODEL	SL-2511SR, EL-	
	Router		2511SR	
MODE	Channel 1	6dB BANDWIDTH	10 kHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)	
ENVIRONMENTAL	20 deg. C, 70%RH,	TESTED BY: James Lee		
CONDITIONS	1005 hPa			

No Freq.		Corr. Factor	Readin	_	Emissio	n Level (uV)]	Lir [dB (nit (uV)]	Mar (dl	•
	(IVITZ)	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.575	0.13	43.53	-	43.66	-	48.00	-	-4.34	-
2	0.716	0.15	43.31	1	43.46	-	48.00	-	-4.54	-
3	1.145	0.20	41.97	-	42.17	i	48.00	i	-5.83	-
4	4.414	0.41	28.26	1	28.67	-	48.00	-	-19.33	-
5	8.148	0.54	24.37	-	24.91	-	48.00	ı	-23.09	-
6	17.207	0.83	24.74	ı	25.57	-	48.00	ı	-22.43	-

- 1. "*": Undetectable
- 2. QP. and AV. are abbreviations of quasi-peak and average individually.
- 3. "-": NA
- 4. The emission levels of other frequencies were very low against the limit.
- 5. Margin value = Emission level Limit value
- 6. Emission Level = Correction Factor + Reading Value.

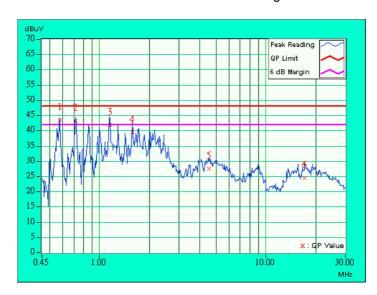




EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL- 2511SR
MODE	Channel 1	6dB BANDWIDTH	10 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 1005 hPa	TESTED BY: James	S Lee

No	Freq.	Corr. Factor	Readin	_	Emission [dB	on Level (uV)]	Lir [dB (nit (uV)]	Mar (d	_
	(IVITZ)	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.575	0.13	42.96	-	43.09	-	48.00	-	-4.91	-
2	0.720	0.15	42.76	-	42.91	-	48.00	-	-5.09	-
3	1.152	0.20	41.44	-	41.64	-	48.00	-	-6.36	-
4	1.578	0.20	39.05	-	39.25	-	48.00	-	-8.75	-
5	4.531	0.31	27.04	ı	27.35	-	48.00	ı	-20.65	-
6	17.055	0.62	23.81	-	24.43	-	48.00	-	-23.57	-

- 1. "*": Undetectable
- 2. QP. and AV. are abbreviations of quasi-peak and average individually.
- 3. "-": NA
- 4. The emission levels of other frequencies were very low against the limit.
- 5. Margin value = Emission level Limit value
- 6. Emission Level = Correction Factor + Reading Value.

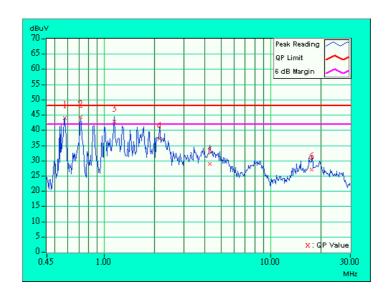




EUT	2-Port Switch Wireless	MODEL	SL-2511SR, EL-	
	Router		2511SR	
MODE	Channel 6	6dB BANDWIDTH	10 kHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)	
ENVIRONMENTAL	20 deg. C, 70%RH,	TESTED BY: James Lee		
CONDITIONS	1005 hPa			

No	Freq.	Corr. Factor	Reading	_	Emission [dB	on Level (uV)]	Lir [dB (nit (uV)]	Mar (dl	_
	(IVITZ)	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.575	0.13	43.15	-	43.28	-	48.00	-	-4.72	-
2	0.716	0.15	43.43	-	43.58	-	48.00	-	-4.42	-
3	1.146	0.20	41.93	-	42.13	-	48.00	-	-5.87	-
4	2.145	0.21	36.32	-	36.53	-	48.00	-	-11.47	-
5	4.297	0.41	28.13	-	28.54	-	48.00	-	-19.46	-
6	17.563	0.85	26.36	-	27.21	-	48.00	-	-20.79	-

- 1. "*": Undetectable
- 2. QP. and AV. are abbreviations of quasi-peak and average individually.
- 3. "-": NA
- 4. The emission levels of other frequencies were very low against the limit.
- 5. Margin value = Emission level Limit value
- 6. Emission Level = Correction Factor + Reading Value.

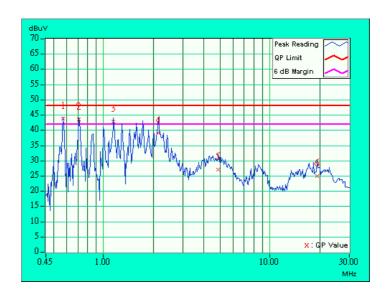




EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL- 2511SR	
MODE	Channel 6	6dB BANDWIDTH	10 kHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)	
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 1005 hPa	TESTED BY: James L	ee	

No	Freq.	Corr. Factor	Readin	_	Emission [dB	n Level (uV)]	Lir [dB (nit (uV)]	Mar (dl	_
	(IVITZ)	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.571	0.13	43.17	-	43.30	-	48.00	-	-4.70	-
2	0.712	0.15	42.79	-	42.94	-	48.00	-	-5.06	-
3	1.148	0.20	42.15	-	42.35	-	48.00	-	-5.65	-
4	2.133	0.21	38.27	-	38.48	-	48.00	-	-9.52	-
5	4.887	0.31	26.46	-	26.77	-	48.00	ı	-21.23	-
6	19.160	0.75	24.27	-	25.02	-	48.00	-	-22.98	-

- 1. "*": Undetectable
- 2. QP. and AV. are abbreviations of quasi-peak and average individually.
- 3 "-"· NA
- 4. The emission levels of other frequencies were very low against the limit.
- 5. Margin value = Emission level Limit value
- 6. Emission Level = Correction Factor + Reading Value.

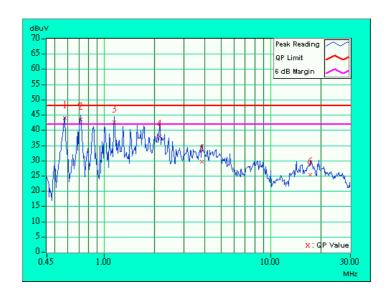




EUT	2-Port Switch Wireless	MODEL	SL-2511SR, EL-	
	Router		2511SR	
MODE	Channel 11	6dB BANDWIDTH	10 kHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)	
ENVIRONMENTAL	20 deg. C, 70%RH,	TESTED BY: James Lee		
CONDITIONS	1005 hPa			

No	Freq.	Corr. Factor	Readin	_	Emissio		Lir [dB (Mar (dl	_
	(IVITZ)	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.575	0.13	43.25	-	43.38	-	48.00	-	-4.62	-
2	0.720	0.15	42.88	1	43.03	1	48.00	-	-4.97	-
3	1.148	0.20	41.72	-	41.92	-	48.00	i	-6.08	ı
4	2.137	0.21	37.01	1	37.22	-	48.00	-	-10.78	-
5	3.848	0.38	28.90	-	29.28	-	48.00	-	-18.72	-
6	17.180	0.83	24.58	-	25.41	_	48.00	-	-22.59	-

- 1. "*": Undetectable
- 2. QP. and AV. are abbreviations of quasi-peak and average individually.
- 3. "-": NA
- 4. The emission levels of other frequencies were very low against the limit.
- 5. Margin value = Emission level Limit value
- 6. Emission Level = Correction Factor + Reading Value.

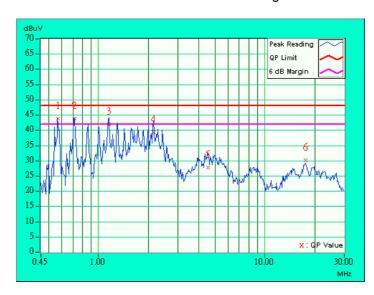




EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL- 2511SR	
MODE	Channel 11	6dB BANDWIDTH	10 kHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)	
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 1005 hPa	TESTED BY: James L	ee	

No	Freq.	Corr. Factor		g Value (uV)]	Emissio		Lir [dB (Mar (dl	_
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.570	0.13	43.15	-	43.28	-	48.00	i	-4.72	ı
2	0.716	0.15	43.23	1	43.38	-	48.00	-	-4.62	-
3	1.152	0.20	41.33	-	41.53	-	48.00	i	-6.47	ı
4	2.145	0.21	38.66	1	38.87	-	48.00	-	-9.13	-
5	4.563	0.31	27.16	-	27.47	-	48.00	-	-20.53	-
6	17.563	0.65	29.54	-	30.19	_	48.00	-	-17.81	-

- 1. "*": Undetectable
- 2. QP. and AV. are abbreviations of quasi-peak and average individually.
- 3. "-": NA
- 4. The emission levels of other frequencies were very low against the limit.
- 5. Margin value = Emission level Limit value
- 6. Emission Level = Correction Factor + Reading Value.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies	Field Strength of Fundamental				
(MHz)	uV/m	dBuV/m			
30-88	100	40.0			
88-216	150	43.5			
216-960	200	46.0			
Above 960	500	54.0			

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL			
* HP Spectrum Analyzer	8590L	3544A01176	May 7, 2002			
* HP Preamplifier	8447D	2944A08485	May 7, 2002			
* HP Preamplifier	8449B	3008A01201	Dec. 06, 2002			
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002			
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 27, 2003			
SCHWARZBECK Tunable	VHA 9103	E101051	Nov. 23, 2002			
Dipole Antenna	UHA 9105	E101055	·			
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 2, 2002			
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 6, 2002			
* EMCO Horn Antenna	3115	9312-4192	April 15, 2002			
* EMCO Turn Table	1060	1115	NA			
* SHOSHIN Tower	AP-4701	A6Y005	NA			
* Software	AS61D4	NA	NA			
* ANRITSU RF Switches	MP59B	M35046	Aug. 2, 2002			
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 2, 2002			
Antenna (Horn)	BBHA9120-D	D130	July 10, 2002			
Open Field Test Site	Site 5	ADT-R05	July 28, 2002			
VCCI Site Registration No.	Site 5	R-1039	NA			
	FCC: 90422					
Site Registration No.	Canada IC: IC 3789					
	VCCI : R-1039					

NOTE: 1.The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

- 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
- 3. "*" = These equipment are used for the final measurement.
- 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.



4.2.3 TEST PROCEDURES

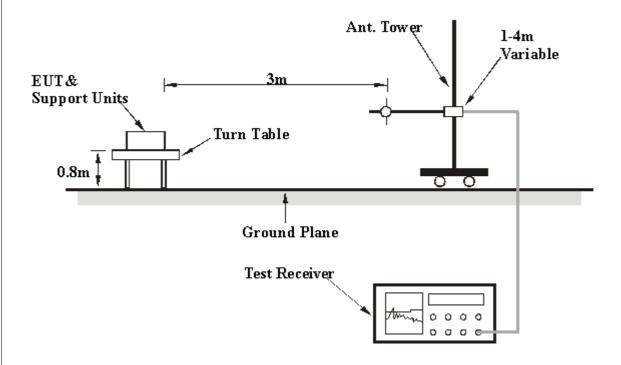
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.



4.2.4 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.5.



4.2.6 TEST RESULTS

EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL-2511SR
MODE	Channel 11	FREQUENCY	30-1000 MHz
MODE		RANGE	30-1000 WHZ
INPUT POWER	120\/00 60Ц-	DETECTOR	Overal Dead
(SYSTEM)	120Vac, 60Hz	FUNCTION	Quasi-Peak
ENVIRONMENTAL	20 deg. C, 70%RH,	TESTED BY: G	ary Chang
CONDITIONS	1005 Hpa		

	AN'	TENNA	POLAR	ITY &	TEST	DISTA	NCE:	HORIZ	ONTA	L AT 3	М
	Eroa	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction
No.	Freq. (MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor
	(IVITZ)	(dBuV/m)	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
1	125.00	30.6 QP	43.50	-12.90	1.79H	356	18.00	11.47	1.10	0.00	-12.57
2	180.00	30.3 QP	43.50	-13.20	1.60H	293	20.00	8.91	1.35	0.00	-10.27
3	200.00	39.9 QP	43.50	-3.60	1.52H	226	29.50	8.98	1.42	0.00	-10.41
4	220.00	35.6 QP	46.00	-10.40	1.42H	155	24.00	10.12	1.51	0.00	-11.63
5	240.00	34.0 QP	46.00	-12.00	1.31H	77	21.00	11.41	1.62	0.00	-13.03
6	250.00	33.7 QP	46.00	-12.30	1.39H	83	20.00	12.02	1.66	0.00	-13.69
7	280.00	35.5 QP	46.00	-10.50	1.28H	152	21.00	12.71	1.77	0.00	-14.47
8	480.00	37.4 QP	46.00	-8.60	1.17H	211	18.00	16.92	2.47	0.00	-19.39
9	500.00	39.8 QP	46.00	-6.20	1.02H	315	20.00	17.26	2.50	0.00	-19.77
10	550.00	36.6 QP	46.00	-9.40	1.11H	239	16.00	17.93	2.68	0.00	-20.61
11	560.00	34.8 QP	46.00	-11.20	1.02H	199	14.00	18.09	2.71	0.00	-20.80
12	600.00	33.4 QP	46.00	-12.60	1.13H	148	12.00	18.61	2.83	0.00	-21.44
13	616.00	32.7 QP	46.00	-13.30	1.26H	101	11.00	18.82	2.89	0.00	-21.71
14	624.00	31.8 QP	46.00	-14.20	1.09H	44	10.00	18.91	2.92	0.00	-21.83
15	660.50	32.3 QP	46.00	-13.70	1.02H	166	10.00	19.25	3.05	0.00	-22.29
16	680.00	35.4 QP	46.00	-10.60	1.03H	180	13.00	19.28	3.10	0.00	-22.38
17	700.00	34.5 QP	46.00	-11.50	1.10H	251	12.00	19.31	3.15	0.00	-22.46
18	720.00	35.4 QP	46.00	-10.60	1.15H	307	12.50	19.68	3.20	0.00	-22.87
19	726.00	35.0 QP	46.00	-11.00	1.20H	290	12.00	19.76	3.21	0.00	-22.97
20	748.50	36.6 QP	46.00	-9.40	1.21H	218	13.20	20.14	3.26	0.00	-23.41
21	750.00	35.9 QP	46.00	-10.10	1.26H	163	12.50	20.18	3.26	0.00	-23.44
22	760.00	34.6 QP	46.00	-11.40	1.21H	124	11.00	20.28	3.27	0.00	-23.55
23	800.00	34.5 QP	46.00	-11.50	1.14H	79	10.50	20.69	3.32	0.00	-24.02
24	880.00	34.2 QP	46.00	-11.80	1.08H	58	10.00	20.68	3.55	0.00	-24.23

NOTE: 1 Emission level = Raw Value - Correction Factor

- 2 Correction Factor = External Preamp. Gain Ant. Factor Cable loss (External Preamp. Gain = 0, when the test receiver is used for the test.)
- 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
- 4. The other emission levels were very low against the limit.
- 5. Margin value = Emission level Limit value



EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL-2511SR
MODE	Channel 11	FREQUENCY	20 4000 MHz
MODE	Chamiler 11	RANGE	30-1000 MHz
INPUT POWER	120Vac, 60Hz	DETECTOR	Overal Deads
(SYSTEM)	120 vac, 00112	FUNCTION	Quasi-Peak
ENVIRONMENTAL	20 deg. C, 70%RH,	TESTED BY: G	ary Chang
CONDITIONS	1005 Hpa		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
	Frea.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
	(1011 12)	(dBuV/m)	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)		
1	80.00	28.2 QP	40.00	-11.80	1.11V	102	20.00	7.33	0.85	0.00	-8.18		
2	120.00	31.7 QP	43.50	-11.80	1.02V	127	19.00	11.65	1.08	0.00	-12.73		
3	160.00	30.9 QP	43.50	-12.60	1.06V	169	20.00	9.62	1.26	0.00	-10.89		
4	175.00	28.8 QP	43.50	-14.70	1.02V	212	18.40	9.08	1.33	0.00	-10.41		
5	200.00	37.4 QP	43.50	-6.10	1.11V	296	27.00	8.98	1.42	0.00	-10.40		
6	220.00	33.6 QP	46.00	-12.40	1.22V	263	22.00	10.12	1.51	0.00	-11.63		
7	240.00	33.0 QP	46.00	-13.00	1.17V	226	20.00	11.41	1.62	0.00	-13.03		
8	280.00	35.5 QP	46.00	-10.50	1.28V	178	21.00	12.71	1.77	0.00	-14.47		
9	320.00	32.6 QP	46.00	-13.40	1.34V	110	17.00	13.62	1.95	0.00	-15.57		
10	400.00	33.3 QP	46.00	-12.70	1.27V	94	15.00	16.11	2.24	0.00	-18.36		
11	420.00	34.5 QP	46.00	-11.50	1.22V	140	16.00	16.21	2.31	0.00	-18.52		
12	440.00	35.7 QP	46.00	-10.30	1.17V	174	17.00	16.32	2.38	0.00	-18.69		
13	500.00	37.8 QP	46.00	-8.20	1.11V	210	18.00	17.26	2.50	0.00	-19.77		
14	560.00	35.8 QP	46.00	-10.20	1.06V	251	15.00	18.09	2.71	0.00	-20.80		
15	600.00	36.4 QP	46.00	-9.60	1.02V	294	15.00	18.61	2.83	0.00	-21.44		
16	616.00	35.7 QP	46.00	-10.30	1.06V	298	14.00	18.82	2.89	0.00	-21.71		
17	680.00	37.4 QP	46.00	-8.60	1.03V	249	15.00	19.28	3.10	0.00	-22.38		
18	700.00	36.5 QP	46.00	-9.50	1.03V	220	14.00	19.31	3.15	0.00	-22.46		
19	748.50	39.4 QP	46.00	-6.60	1.07V	159	16.00	20.14	3.26	0.00	-23.40		
20	760.00	35.6 QP	46.00	-10.40	1.10V	102	12.00	20.28	3.27	0.00	-23.55		
21	840.00	35.0 QP	46.00	-11.00	1.10V	70	11.00	20.52	3.46	0.00	-24.00		
22	880.00	34.2 QP	46.00	-11.80	1.07V	46	10.00	20.68	3.55	0.00	-24.23		

NOTE: 1 Emission level = Raw Value - Correction Factor

- 2 Correction Factor = External Preamp. Gain Ant. Factor Cable loss (External Preamp. Gain = 0, when the test receiver is used for the test.)
- 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
- 4. The other emission levels were very low against the limit.
- 5. Margin value = Emission level Limit value



EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL-2511SR
MODE	Channel 1	FREQUENCY	Above 1000 MHz
WODL	Chamiler	RANGE	Above 1000 MHz
INPUT POWER	120\/20 60∐-7	DETECTOR	Peak(PK)
(SYSTEM)	120Vac, 60Hz	FUNCTION	Average (AV)
ENVIRONMENTAL	20 deg. C, 70%RH,	TESTED BY: G	ary Chang
CONDITIONS	1005 Hpa		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction	
No.	' '	Level	-	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor	
	(MHz) (dBuV/m) (dBuV/m)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)			
1	2038.0	45.7 pk	74.00	-28.3	1.39H	61	50.50	25.20	4.86	34.90	4.84	
2	*2412.0	100.4 pk			1.00H	301	68.20	27.11	5.10	0.00	-32.21	
3	*2412.0	94.2 Av			1.00H	301	62.00	27.11	5.10	0.00	-32.21	
4	4076.0	48.6 pk	74.00	-25.4	1.17H	197	46.20	30.13	6.78	34.52	-2.39	
5	4824.0	49.0 pk	74.00	-25.0	1.34H	2	45.00	31.43	7.23	34.63	-4.02	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	•	Level	(dBuV/m)	-	Height	Angle	Value	Factor	Factor	Factor	Factor		
	(MHz)	(dBuV/m)	(ubuv/III)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)		
1	2038.0	46.2 pk	74.00	-27.8	1.57V	355	51.00	25.20	4.86	34.90	4.84		
2	*2412.0	103.2 Av			1.12V	110	71.00	27.11	5.10	0.00	-32.21		
3	*2412.0	108.2 pk			1.12V	110	76.00	27.11	5.10	0.00	-32.21		
4	4076.0	49.6 pk	74.00	-24.4	1.18V	52	47.20	30.13	6.78	34.52	-2.39		
5	4824.0	48.3 pk	74.00	-25.7	1.16V	356	44.30	31.43	7.23	34.63	-4.02		

NOTE: 1. Emission level = Raw Value - Correction Factor

- 2. Correction Factor = External Preamp. Gain Ant. Factor Cable loss (External Preamp. Gain = 0, when the test receiver is used for the test.)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. The limit value is defined as per 15.247
- 6. " * ": Fundamental frequency



EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL- 2511SR
MODE	Channel 6	FREQUENCY	Above 4000 MI I=
WODL	Chamero	RANGE	Above 1000 MHz
INPUT POWER	120Vac, 60Hz	DETECTOR	Peak(PK)
(SYSTEM)	120 vac, 00112	FUNCTION	Average (AV)
ENVIRONMENTAL	20 deg. C, 70%RH,	TESTED BY: Gary (Chang
CONDITIONS	1005 Hpa		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M												
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	,	Level		(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
	(MHz) (dBuV/m) (dBuV/m)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)				
1	2063.0	46.5 pk	74.00	-27.5	1.18H	207	51.00	25.41	4.96	34.90	4.53		
2	*2438.0	93.4 Av			1.14H	50	61.00	27.33	5.08	0.00	-32.41		
3	*2438.0	100.9 pk			1.14H	50	68.50	27.33	5.08	0.00	-32.41		
4	4126.0	46.7 pk	74.00	-27.3	1.21H	97	44.20	30.32	6.70	34.56	-2.46		
5	4874.0	49.3 pk	74.00	-24.7	1.32H	342	45.20	31.47	7.21	34.63	-4.05		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	'	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
	` ′ (dBuV/m)	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)			
1	2063.0	47.5 pk	74.00	-26.5	1.15V	1	52.00	25.41	4.96	34.90	4.53		
2	*2437.0	108.4 pk			1.02V	215	76.00	27.33	5.08	0.00	-32.40		
3	*2437.0	101.4 Av			1.02V	215	69.00	27.33	5.08	0.00	-32.40		
4	4126.0	50.0 pk	74.00	-24.0	1.49V	356	47.50	30.32	6.70	34.56	-2.46		
5	4874.0	48.1 pk	74.00	-25.9	1.49V	52	44.00	31.47	7.21	34.63	-4.06		

NOTE: 1. Emission level = Raw Value - Correction Factor

- 2. Correction Factor = External Preamp. Gain Ant. Factor Cable loss (External Preamp. Gain = 0, when the test receiver is used for the test.)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. The limit value is defined as per 15.247
- 6. " * ": Fundamental frequency



EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL- 2511SR
MODE	Channel 11	FREQUENCY	Above 1000 MHz
		RANGE	,
INPUT POWER	120Vac, 60Hz	DETECTOR	Peak(PK)
(SYSTEM)	120 000, 00112	FUNCTION	Average (AV)
ENVIRONMENTAL	20 deg. C, 70%RH,	TESTED BY: Gar	y Chang
CONDITIONS	1005 Hpa		

	AN'	TENNA	POLAR	ITY &	TEST	DISTA	NCE:	HORIZ	ATNO	L AT 3	M	
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction	
No.	(MHz)	Level	-	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor	
	(IVIITZ)	(dBuV/m)	- 1	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
1	2088.0	45.7 pk	74.00	-28.3	1.28H	196	50.00	25.62	5.02	34.90	4.26	
2	*2463.0	98.8 pk			1.51H	300	66.35	27.33	5.08	0.00	-32.41	
3	*2463.0	91.8 Av			1.51H	300	59.40	27.33	5.08	0.00	-32.41	
4	2492.0	46.2 pk	74.00	-27.8	1.28H	334	48.50	27.54	5.06	34.90	2.31	
5	4176.0	46.5 pk	74.00	-27.5	1.33H	68	44.00	30.41	6.68	34.58	-2.51	
6	4924.0	49.1 pk	74.00	-24.9	1.63H	150	45.00	31.51	7.21	34.62	-4.10	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction
No.	•	Level	(dBuV/m)		Height	Angle	Value	Factor	Factor	Factor	Factor
	(IVIITZ)	(MHz) (dBuV/m)	(ubuv/III)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
1	2088.0	47.7 pk	74.00	-26.3	1.25V	248	52.00	25.62	5.02	34.90	4.26
2	*2463.0	104.4 Av			1.08V	65	72.00	27.33	5.08	0.00	-32.40
3	*2463.0	108.8 pk			1.08V	65	76.40	27.33	5.08	0.00	-32.40
4	2491.0	47.9 pk	74.00	-26.1	1.42V	65	50.20	27.54	5.06	34.90	2.32
5	4176.0	48.7 pk	74.00	-25.3	1.02V	297	46.20	30.41	6.68	34.58	-2.51
6	4924.0	49.2 pk	74.00	-24.8	1.31V	176	45.10	31.51	7.21	34.62	-4.10

NOTE: 1. Emission level= Raw Value - Correction Factor

- 2. Correction Factor = External Preamp. Gain Ant. Factor Cable loss (External Preamp. Gain = 0, when the test receiver is used for the test.)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. The limit value is defined as per 15.247
- 6. " * " : Fundamental frequency



4.3 6DB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

NOTES:

- 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

4.3.4 TEST SETUP



4.3.5 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



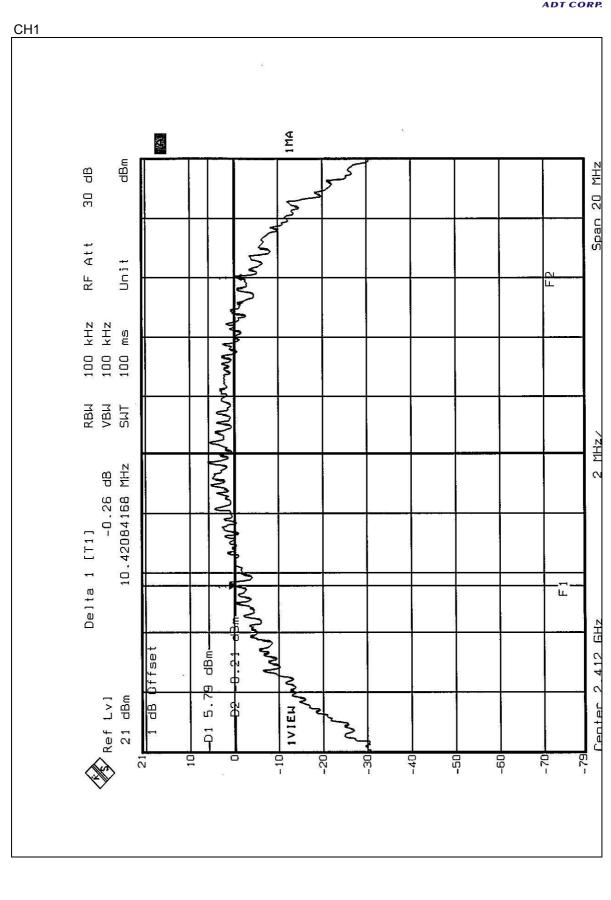
4.3.6 TEST RESULTS

EUT	2-Port Switch Wireless Router	_	SL-2511SR, EL- 2511SR
INPUT POWER	120Vac, 60Hz	ENVIRONMENTAL	22 deg. C, 55%RH,
(SYSTEM)	120 vac, 00112	CONDITIONS	1005 hPa

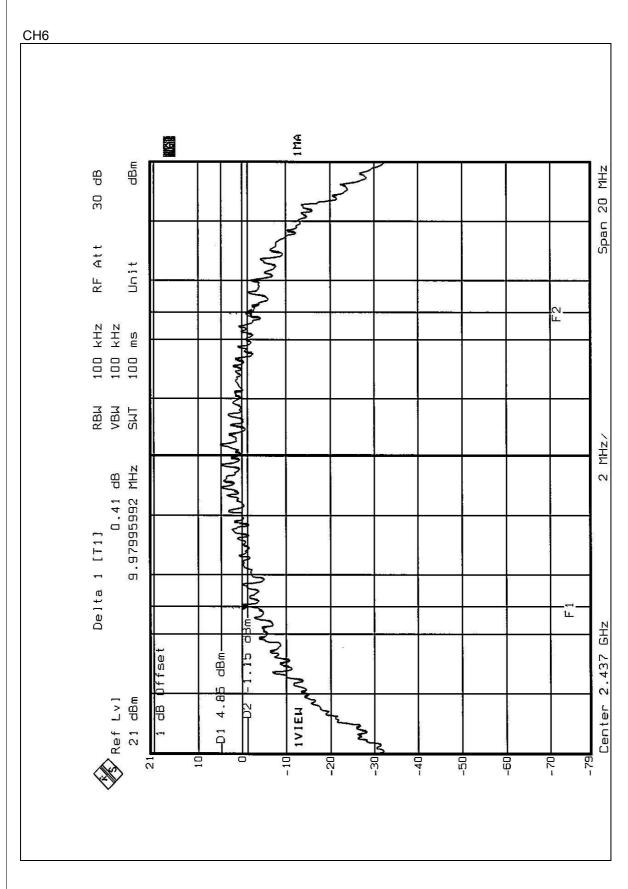
TESTED BY: Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.42	0.5	PASS
6	2437	9.98	0.5	PASS
11	2462	9.90	0.5	PASS

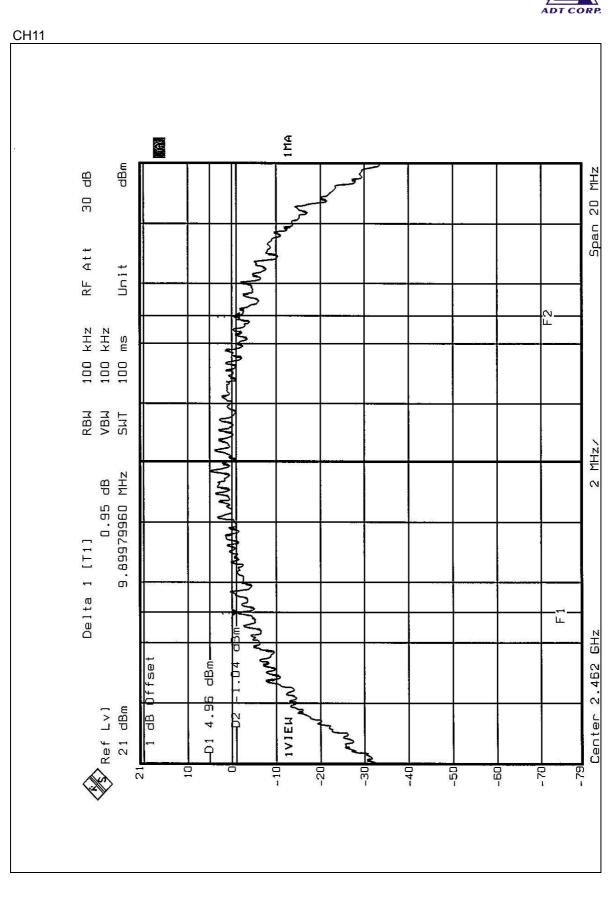














4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SINGLE CHANNEL POWER METER	NRVS	100026	Feb. 21, 2003
PEAK POWER SENSOR	NRV-Z32	100013	Feb. 21, 2003

NOTE:

- 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.4.3 TEST PROCEDURES

1. The transmitter output was connected to the peak power meter.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

Same as Item 3.4.5



4.4.6 TEST RESULTS

EUT	2-Port Switch Wireless Router		SL-2511SR, EL- 2511SR
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	22 deg. C, 55%RH, 1005 hPa

TESTED BY: Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.48	30	PASS
6	2437	15.00	30	PASS
11	2462	14.11	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

NOTE:

- 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 TEST SETUP



4.5.5 EUT OPERATING CONDITION

Same as Item 3.4.5



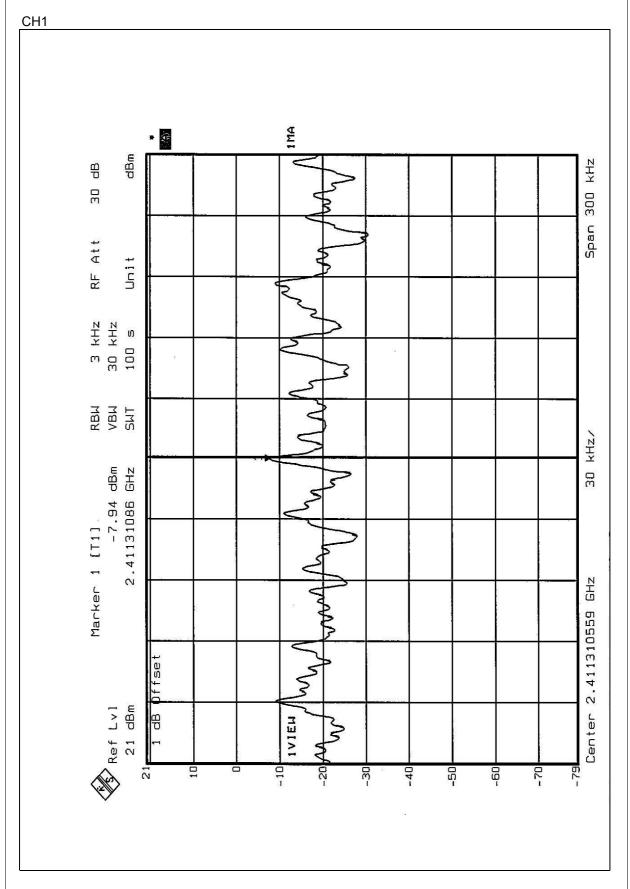
4.5.6 TEST RESULTS

EUT	2-Port Switch Wireless Router	MODEL	SL-2511SR, EL-2511SR
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL	22 deg. C, 55%RH,
		CONDITIONS	1005 hPa

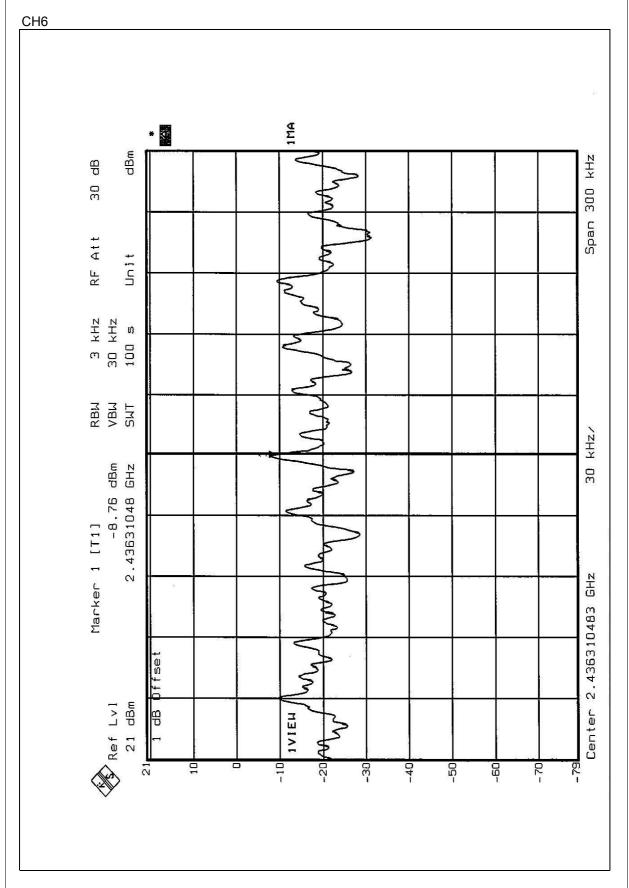
TESTED BY: Steven Lu

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.94	8	PASS
6	2437	-8.76	8	PASS
11	2462	-9.12	8	PASS

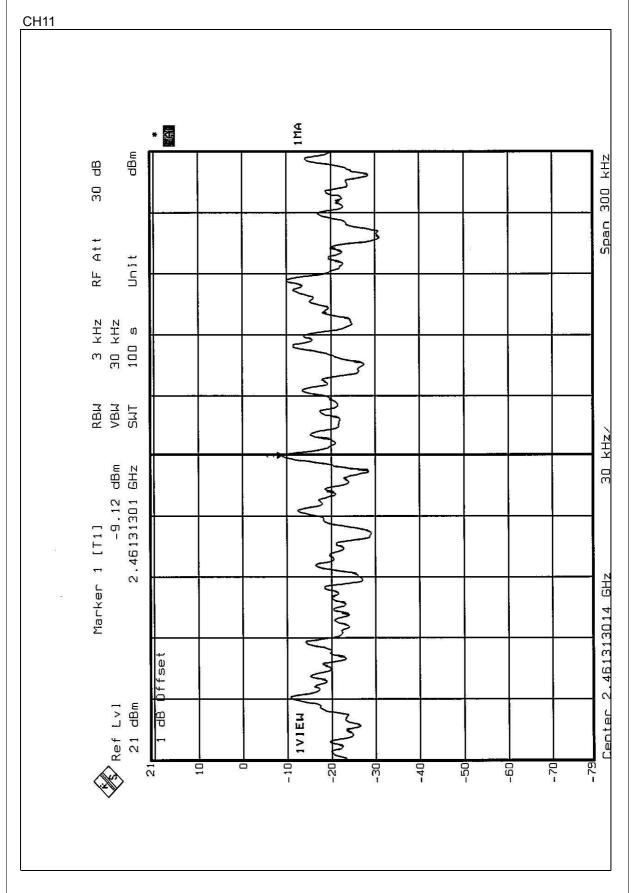














4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.



4.6.4 EUT OPERATING CONDITION

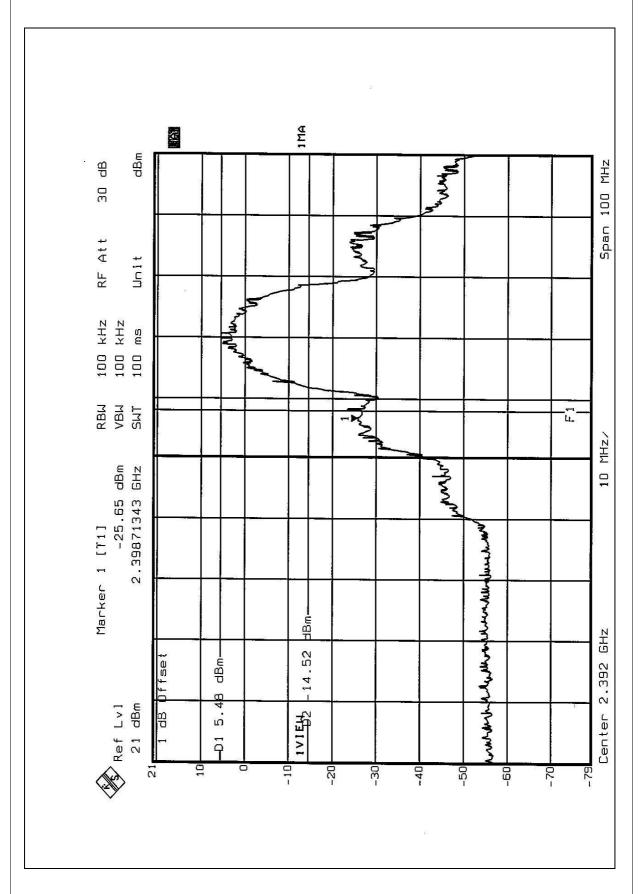
Same as Item 3.4.5

4.6.5 TEST RESULTS

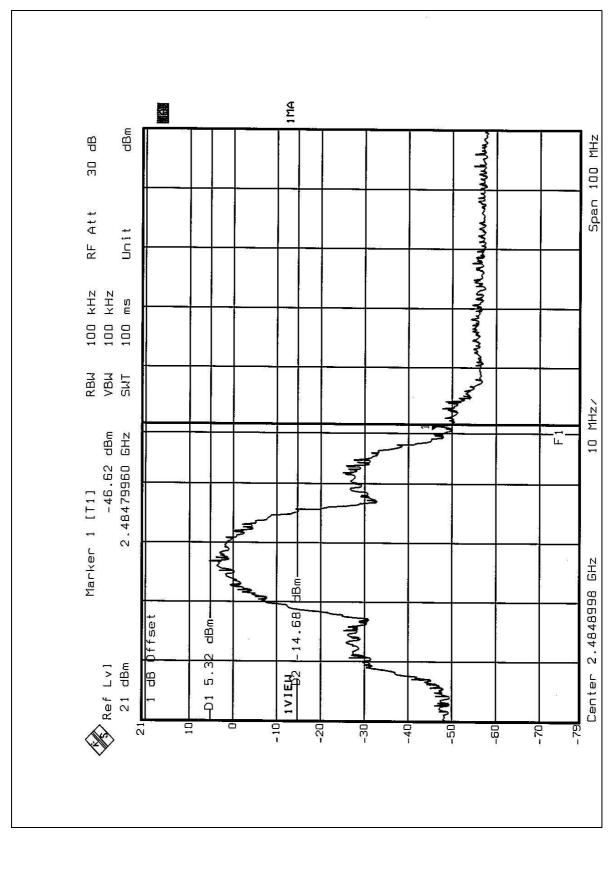
The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE: The band edge emission plot on the following 2 pages shows 51.94dB delta between carrier maximum power and local maximum emission in restrict band (2.4848GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.6 (Page 26) is 104.4BuV/m, so the maximum field strength in restrict band is 104.4-51.94=52.46 dBuV/m which is under 54 dBuV/m limit.











4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

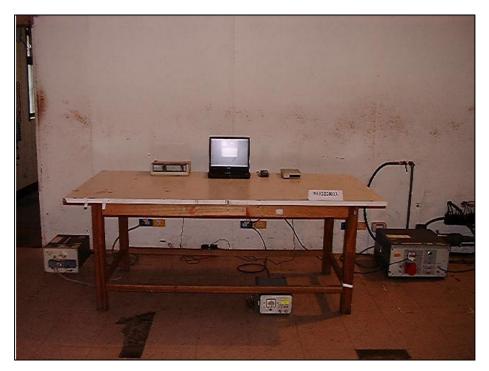
4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Dipole Antenna and used Inverted TNC antenna connector. The maximum Gain of the antenna is 2dBi only.



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST







RADIATED EMISSION TEST







6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA FCC, NVLAP, UL TUV Rheinland

Japan VCCI New Zealand MoC Norway NEMKO

R.O.C. BSMI, DGT, CNLA

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

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Email: service@mail.adt.com.tw
Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.