



FCC TEST REPORT

REPORT NO.: RF900801R02

MODEL NO.: Solo9550

RECEIVED: August 1, 2001

TESTED: August 2 ~ August 6, 2001

APPLICANT: QUANTA COMPUTER INC.

ADDRESS: 7F, No. 116, Hou Kang St., Shih Lin, Taipei,
Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,
Taiwan, R.O.C.

This test report consists of 64 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CNLA, NVLAP or any government agencies. The test results in the report only apply to the tested sample.



0528



Lab Code: 200102-0



Table of Contents

1	CERTIFICATION	4
2	SUMMARY OF TEST RESULTS.....	5
3	GENERAL INFORMATION	6
3.1	GENERAL DESCRIPTION OF EUT	6
3.2	DESCRIPTION OF TEST MODES	7
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS.....	9
3.4	DESCRIPTION OF SUPPORT UNITS.....	10
4	TEST TYPES AND RESULTS	11
4.1	CONDUCTED EMISSION MEASUREMENT	11
4.1.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT.....	11
4.1.2	TEST INSTRUMENTS	11
4.1.3	TEST PROCEDURES.....	12
4.1.4	TEST SETUP	12
4.1.5	EUT OPERATING CONDITIONS	13
4.1.6	TEST RESULTS(A)	14
4.1.7	TEST RESULTS(B)	20
4.2	Radiated Emission Measurement	26
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	26
4.2.2	TEST INSTRUMENTS	27
4.2.3	TEST PROCEDURES.....	28
4.2.4	TEST SETUP	29
4.2.5	EUT OPERATING CONDITIONS	29
4.2.6	TEST RESULTS(A)	30
4.2.7	TEST RESULTS(B)	35
4.3	6dB BANDWIDTH MEASUREMENT	40
4.3.1	LIMITS OF 6dB BANDWIDTH MEASUREMENT	40
4.3.2	TEST INSTRUMENTS	40
4.3.3	TEST PROCEDURE	41
4.3.4	TEST SETUP	41
4.3.5	EUT OPERATING CONDITIONS	41
4.3.6	TEST RESULTS.....	42
4.4	MAXIMUM PEAK OUTPUT POWER	46
4.4.1	LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT.....	46
4.4.2	TEST INSTRUMENTS	46
4.4.3	TEST PROCEDURES.....	47



4.4.4	TEST SETUP	47
4.4.5	EUT OPERATING CONDITIONS	47
4.4.6	TEST RESULTS	48
4.5	POWER SPECTRAL DENSITY MEASUREMENT	49
4.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	49
4.5.2	TEST INSTRUMENTS	49
4.5.3	TEST PROCEDURE	50
4.5.4	TEST SETUP	50
4.5.5	EUT OPERATING CONDITIONS	50
4.5.6	TEST RESULTS	51
4.6	BAND EDGES MEASUREMENT	55
4.6.1	LIMITS OF BAND EDGES MEASUREMENT	55
4.6.2	TEST INSTRUMENTS	55
4.6.3	TEST PROCEDURE	55
4.6.4	EUT OPERATING CONDITION	56
4.6.5	TEST RESULTS	56
4.7	ANTENNA REQUIREMENT	61
4.7.1	STANDARD APPLICABLE	61
4.7.2	ANTENNA CONNECTED CONSTRUCTION	61
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	62
6	INFORMATION ON THE TESTING LABORATORIES	64



1 CERTIFICATION

PRODUCT : Notebook PC
BRAND NAME : Gateway
MODEL NO. : Solo9550
APPLICANT : QUANTA COMPUTER INC.
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.247),
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from August 2, 2001 to August 6, 2001, 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:** Aug 8, 2001
Gary Chang

CHECKED BY: Demi Chen, **DATE:** Aug. 8, 2001
Demi Chen

APPROVED BY: Alan Lane, **DATE:** Aug 8, 2001
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
15.107	AC Power Conducted Emission Limit: 48dBuV	PASS	Meet the requirement of limit Minimum passing margin is -8.83dBuV at 0.49200MHz
15.247(a)(2)	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
15.247(c)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is -2.5dBuV at 324.00 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	Notebook PC
MODEL NO.	Solo9550
POWER SUPPLY	3.3VDC from computer
MODULATION TYPE	CCK, BPSK, QPSK
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	15 dBm
ANTENNA TYPE	Printed antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

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

3.2 DESCRIPTION OF TEST MODES

A. 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.

B. 2 notebook computers have been used as the host equipment of this EUT. Both of these two modes have been tested. The following table is a list of components used in the host notebook.

Parts	Mode 1	Mode 2
15.0" TFT XGA LCD		Hitachi TX38D85
15.7" TFT SXGA LCD	LG LP157E1-C2	N/A
CPU	Intel 1.2 GHz	Celeron 866 MHz
Li-Ion battery	Sanyo 3UR18650F-3-QC-UA2 Lilon 2.0AH cell	Sanyo 3UR18650F-3-QC-UA2 Lilon 2.0AH cell
128MB PC133 SDRAM	U17128A4NC8612QP00	U17128A4WB8612QPB0
256MB PC133 SDRAM		
FDD	Panasonic JU-226A142	Panasonic JU-226A142
CD-ROM		
DVD-ROM 12.7mm		
CD-RW	QSI SCW-081	Panasonic UJKDA330
2 nd Battery		
DVD/CD-RW		
HDD 12.7mm (max), 2.5" ,10 ~30GB	Toshiba MK3017GAP (30GB)	Toshiba MK3017GAP (30GB)
BlueTooth module FCC ID: O9C-SL1021	3COM 3CRIB96	3COM 3CRIB96
Keyboard	Sunrex K990146I 88/90-key Thinkpad like key feeling	
Touch pad	Synaptics with S/P controller , CCR enabled P/N: TM41P-358	
AC Adapter	Astec SA80-3115	Astec SA80-3115
Inverter	3RUA2IV0003	3RUA2IV0003
Modem MDC card	ActionTec MDC560RQ	ActionTec MDC560RQ
Mini PCI Wireless LAN	Agere ORINOCO	Agere ORINOCO



- C. The following table is a list of the components which will also be used in the host notebook. The test results show in compliance with the requirement of FCC Part 15, subpart B when the listed component is used in the host notebook. The test report is upon request.

COMPONENT	BRAND	MODEL	SPECIFICATION
LCD PANEL	LG	LP150X1-J2QP	15.0" TFT XGA LCD
	LG	LP157E1-C2	15.7" TFT SXGA LCD
Tualatin	Intel	NA	866-1200 MHz
Celeron Processor	Intel	NA	733-933 MHz
Li-Ion battery	Sanyo	3UR18650F-3-QC-UA2	NA
	Lilon	2.0AH cell	
SDRAM	UNIFOSA	U17128A4WB8612QPA0 U17128A4WB8612QPB0 U17128A4NC8612QP00 U17128A4MI8612QMA0 U17128A4HY8612QPA0	128MB PC133
SDRAM	UNIFOSA	U17256A4KMI612QPB0 U17256A4HYI612QPOH	256MB PC133
FDD	Panasonic	JU-226A143	NA
CD-ROM	QSI	SCR-242	24x
DVD-ROM	QSI	SDR-081	12.7mm
CD-RW	Panasonic	UJKDA330	8X,4X,24X (CD-R, RW,CD) 8x,8X,24X (QSI) UJDA350 (10X,10X,24X)
2 nd Battery	Sanyo	3UF103450P-2-QP-15 Aux 6cell	NA
DVD/CD-RW	Panasonic	UJDA710	8X,8X,4X,24X
HDD	IBM	DJSA210 07N4390 (10GB)	NA
	Toshiba	MK1017GAP (10GB)	NA
		MK2016GAP (20GB)	
		MK3017GAP (30GB)	
Keyboard	Sunrex	K990146I 88/90-key	NA
	Thinkpad	NA	NA
Touch pad	Synaptics	NA	W/o buttons
AC Adapter	Astec	SA80T	NA
Inverter	NA	3RUA2IV0003	NA
Modem MDC Card	ActionTec	MDC560RP	NA
Mini PCI Wireless LAN	Agere	ORINOCO	NA



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Notebook PC. 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

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	PRINTER	HP	2225C+	3123S97230	DSI6XU2225
2	MODEM	ACEEX	1414	980020510	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
2	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

NOTE: 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

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. 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 Mains Network (for EUT)	ESH3-Z5	839135/006	July 3, 2002
ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 28, 2001
ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Dec. 3, 2001
*EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	July 3, 2002
*Software	Cond-V2J	NA	NA
*RF cable (JYEBAO)	RG-58A/U	Cable-C02.01	July 9, 2002
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 20, 2002
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 20, 2002
Shielded Room	Site 2	ADT-C02	NA
VCCI Site Registration No.	Site 2	C-240	NA

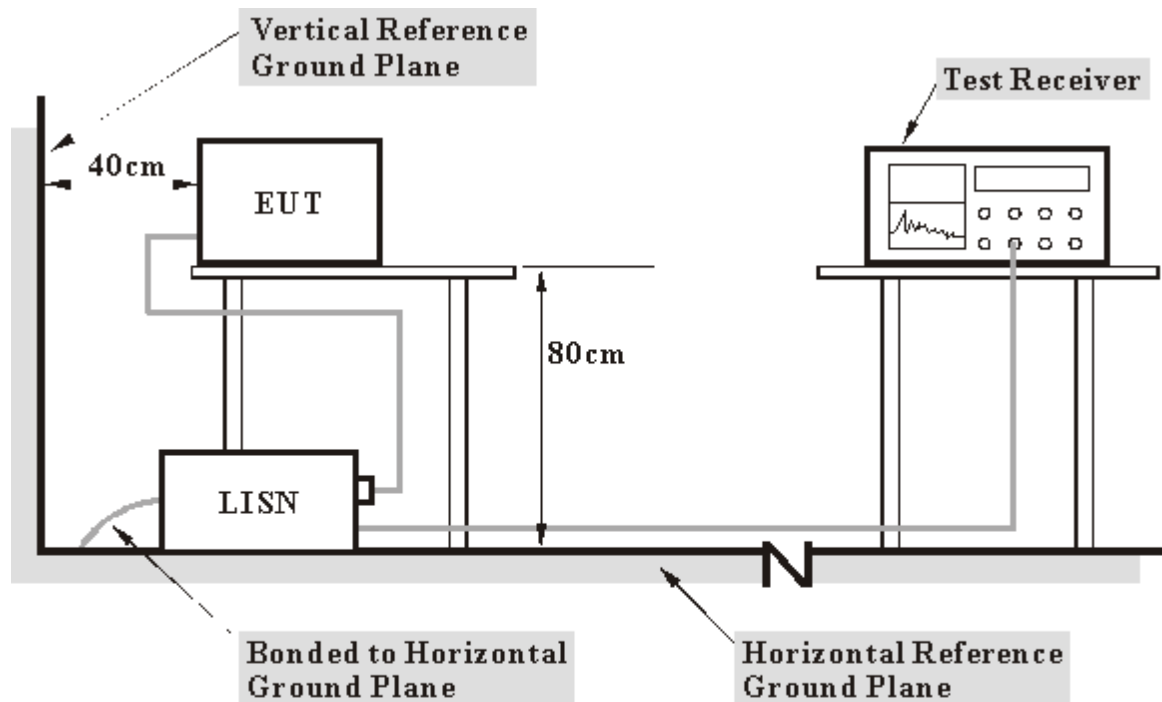
NOTE:

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

- 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.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 TEST SETUP



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) 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. Connected the EUT to a computer system placed on a testing table.
- b. The computer system ran a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The computer system sent "H" messages to 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.

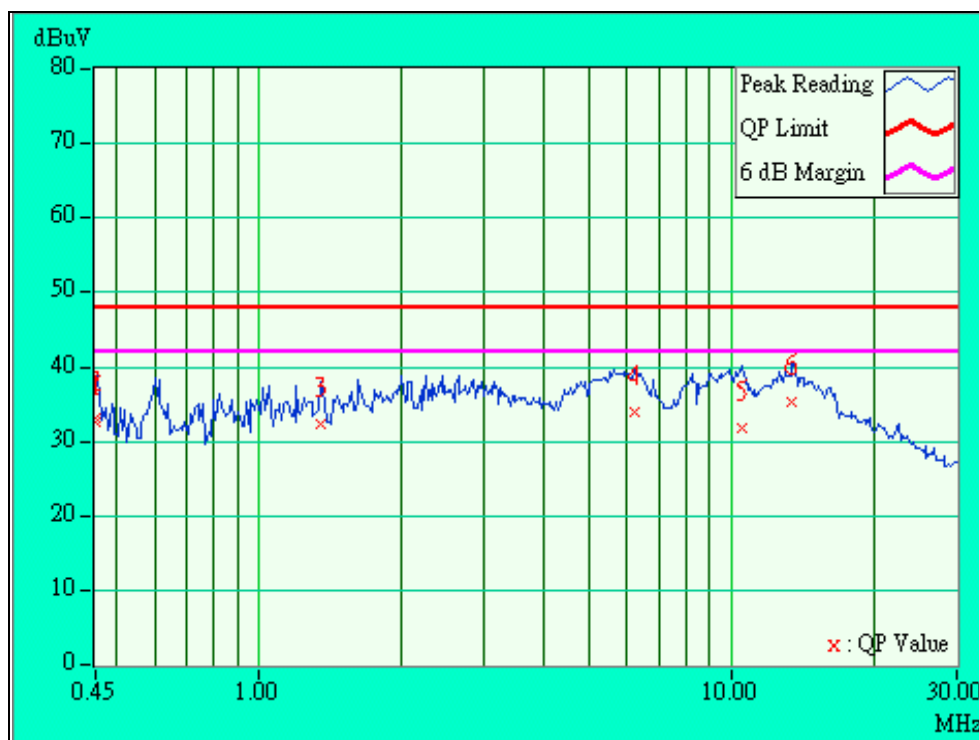
4.1.6 TEST RESULTS(A)

EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 1	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.45197	0.10	32.46	-	32.56	-	48.00	-	-15.44	-
2	0.45197	0.10	33.13	-	33.23	-	48.00	-	-14.77	-
3	1.34700	0.10	32.20	-	32.30	-	48.00	-	-15.70	-
4	6.24500	0.37	33.82	-	34.19	-	48.00	-	-13.81	-
5	10.49300	0.53	31.73	-	32.26	-	48.00	-	-15.74	-
6	13.44200	0.71	35.16	-	35.87	-	48.00	-	-12.13	-

NOTE:

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

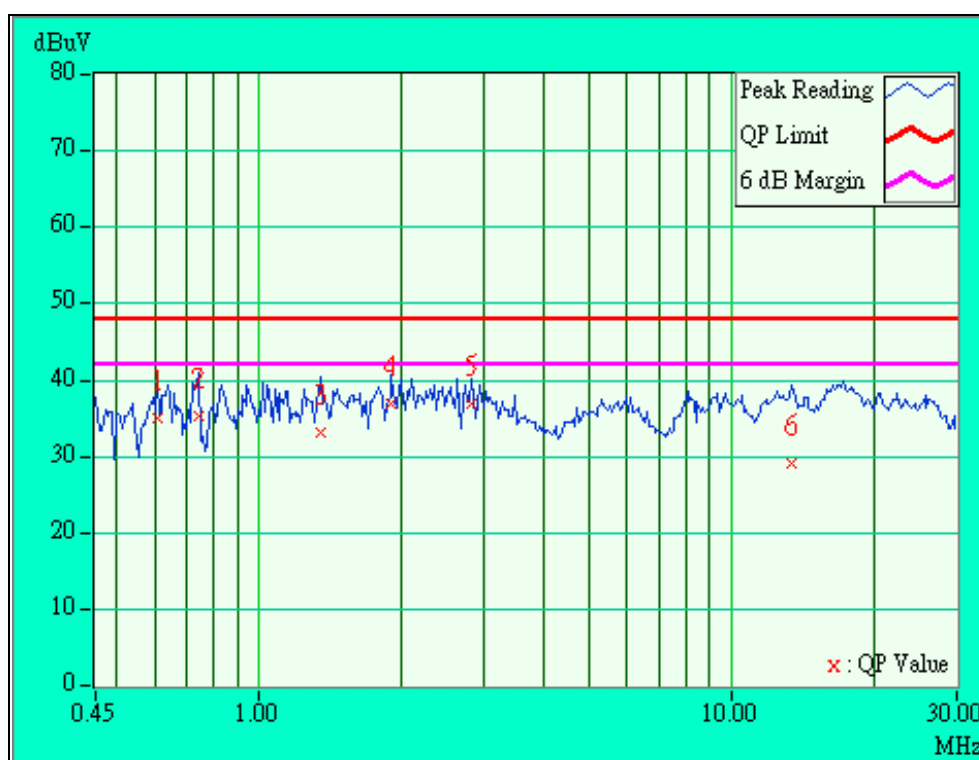


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 1	PHASE	Line (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.60600	0.10	35.07	-	35.17	-	48.00	-	-12.83	-
2	0.74100	0.10	35.38	-	35.48	-	48.00	-	-12.52	-
3	1.34700	0.10	33.15	-	33.25	-	48.00	-	-14.75	-
4	1.90200	0.10	36.90	-	37.00	-	48.00	-	-11.00	-
5	2.82300	0.18	36.88	-	37.06	-	48.00	-	-10.94	-
6	13.43300	0.54	29.18	-	29.72	-	48.00	-	-18.28	-

NOTE:

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

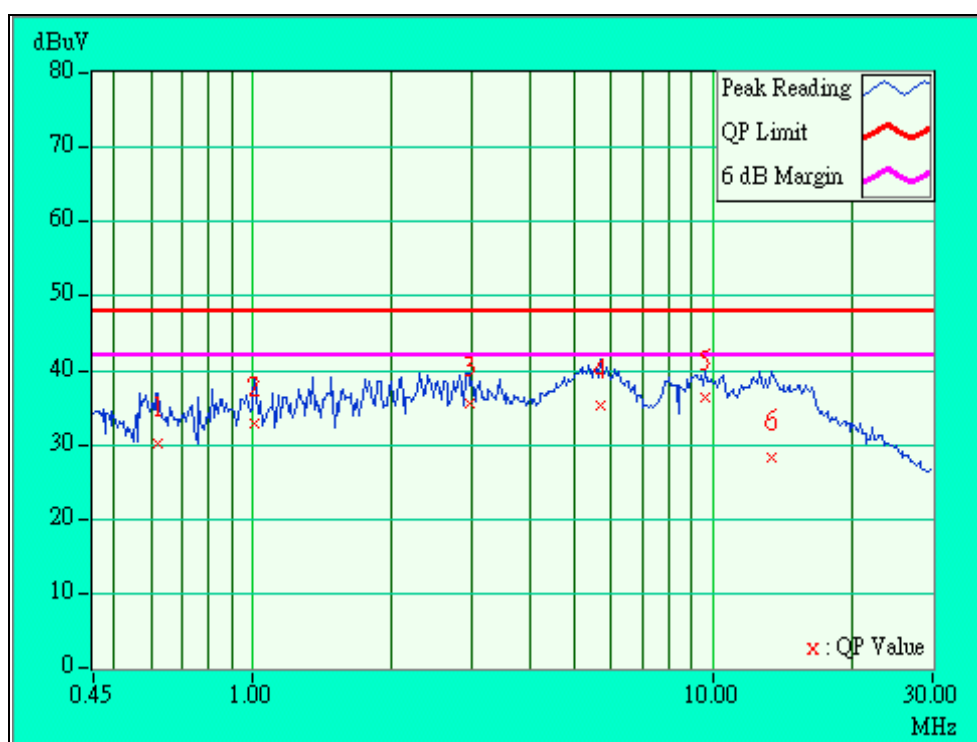


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 6	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.62019	0.10	30.28	-	30.38	-	48.00	-	-17.62	-
2	1.01100	0.10	32.87	-	32.97	-	48.00	-	-15.03	-
3	2.94600	0.19	35.52	-	35.71	-	48.00	-	-12.29	-
4	5.67800	0.36	35.30	-	35.66	-	48.00	-	-12.34	-
5	9.59900	0.49	36.26	-	36.75	-	48.00	-	-11.25	-
6	13.39100	0.70	28.40	-	29.10	-	48.00	-	-18.90	-

NOTE:

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

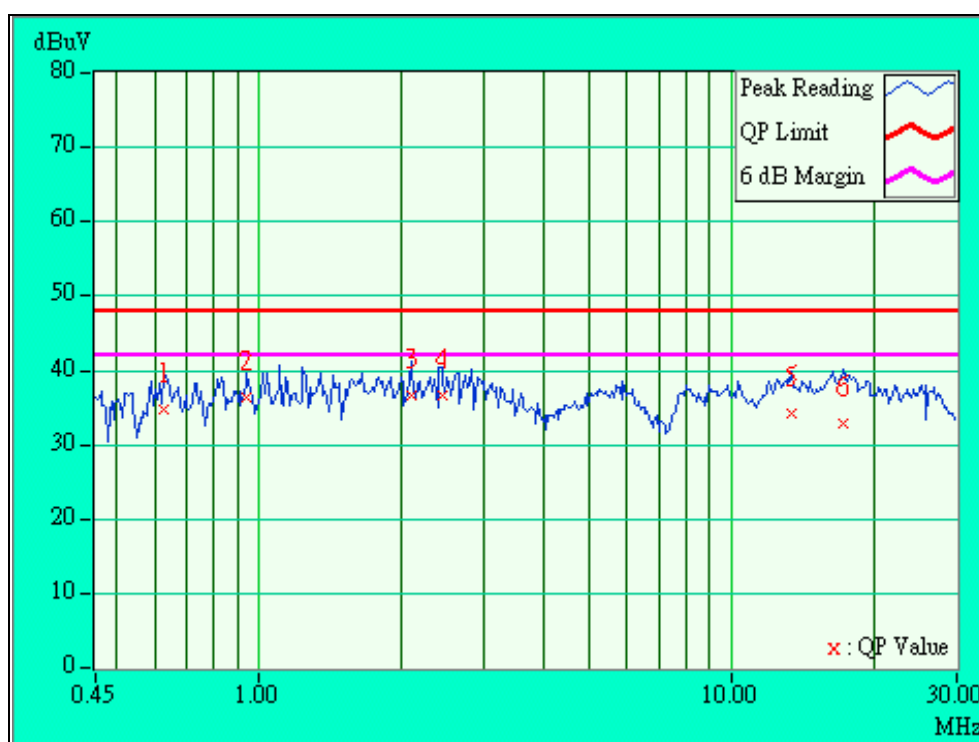


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 6	PHASE	Line (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.63000	0.10	34.69	-	34.79	-	48.00	-	-13.21	-
2	0.94200	0.10	36.39	-	36.49	-	48.00	-	-11.51	-
3	2.10000	0.11	36.60	-	36.71	-	48.00	-	-11.29	-
4	2.43900	0.14	36.53	-	36.67	-	48.00	-	-11.33	-
5	13.40000	0.54	34.28	-	34.82	-	48.00	-	-13.18	-
6	17.16200	0.69	32.81	-	33.50	-	48.00	-	-14.50	-

NOTE:

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

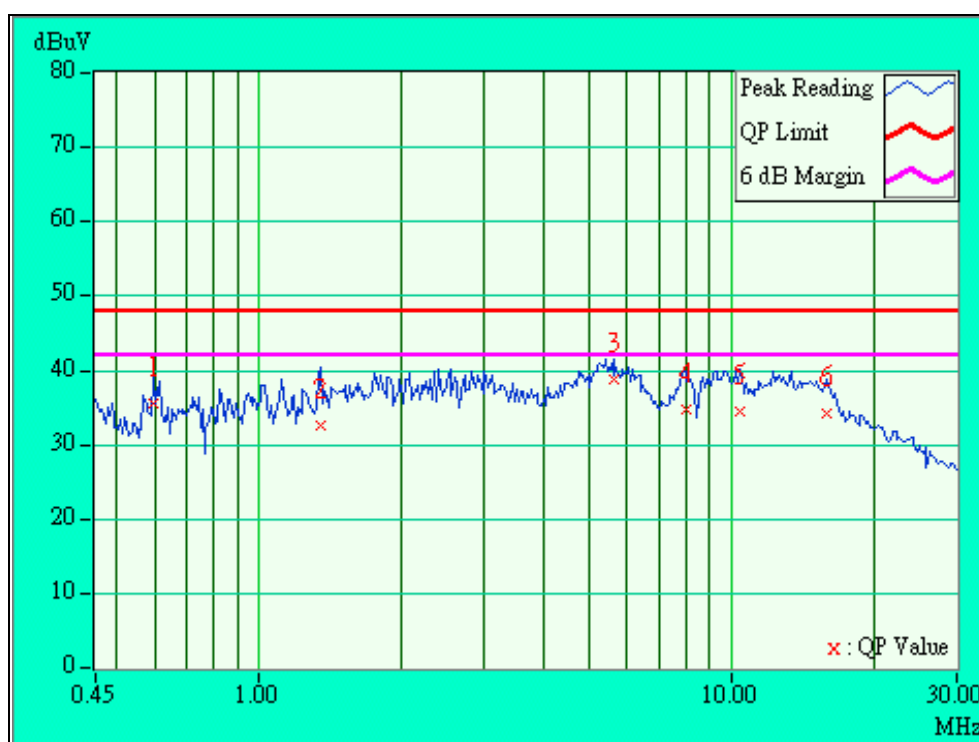


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 11	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.59400	0.10	35.53	-	35.63	-	48.00	-	-12.37	-
2	1.34700	0.10	32.52	-	32.62	-	48.00	-	-15.38	-
3	5.66300	0.36	38.78	-	39.14	-	48.00	-	-8.86	-
4	7.98200	0.43	34.65	-	35.08	-	48.00	-	-12.92	-
5	10.42400	0.53	34.55	-	35.08	-	48.00	-	-12.92	-
6	15.98000	0.84	34.31	-	35.15	-	48.00	-	-12.85	-

NOTE:

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

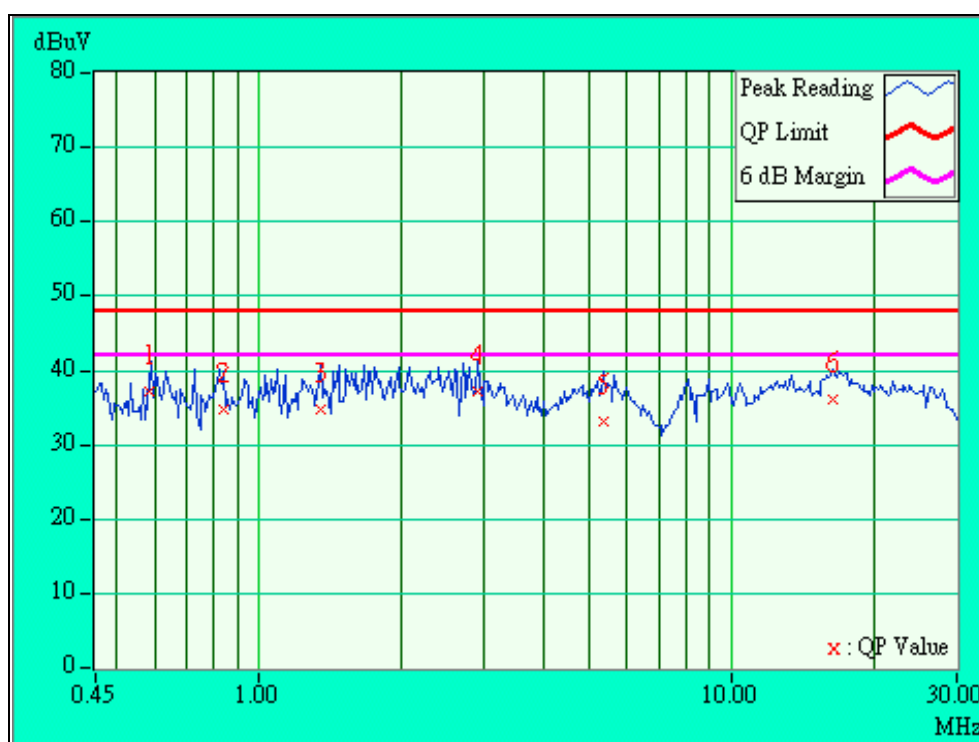


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 11	PHASE	Line (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.58675	0.10	37.26	-	37.36	-	48.00	-	-10.64	-
2	0.83700	0.10	34.78	-	34.88	-	48.00	-	-13.12	-
3	1.34700	0.10	34.72	-	34.82	-	48.00	-	-13.18	-
4	2.89592	0.19	37.26	-	37.45	-	48.00	-	-10.55	-
5	5.38700	0.32	33.20	-	33.52	-	48.00	-	-14.48	-
6	16.47353	0.66	36.05	-	36.71	-	48.00	-	-11.29	-

NOTE:

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



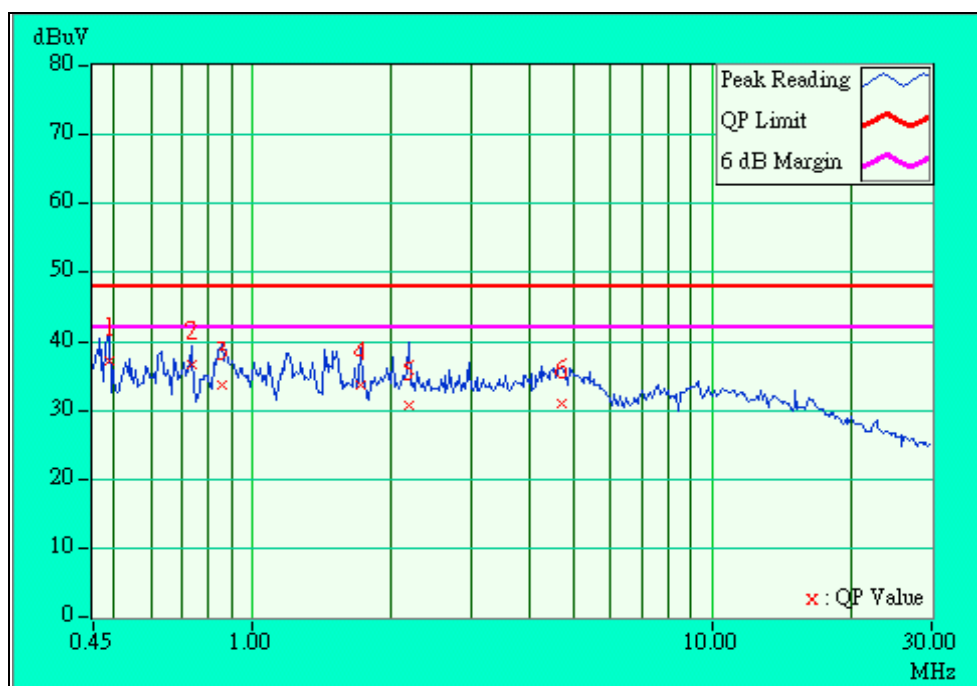
4.1.7 TEST RESULTS(B)

EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 1	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.48600	0.10	37.24	-	37.34	-	48.00	-	-10.66	-
2	0.73500	0.10	36.59	-	36.69	-	48.00	-	-11.31	-
3	0.85800	0.10	33.55	-	33.65	-	48.00	-	-14.35	-
4	1.71600	0.10	33.56	-	33.66	-	48.00	-	-14.34	-
5	2.18400	0.12	30.64	-	30.76	-	48.00	-	-17.24	-
6	4.69200	0.32	30.95	-	31.27	-	48.00	-	-16.73	-

NOTE:

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

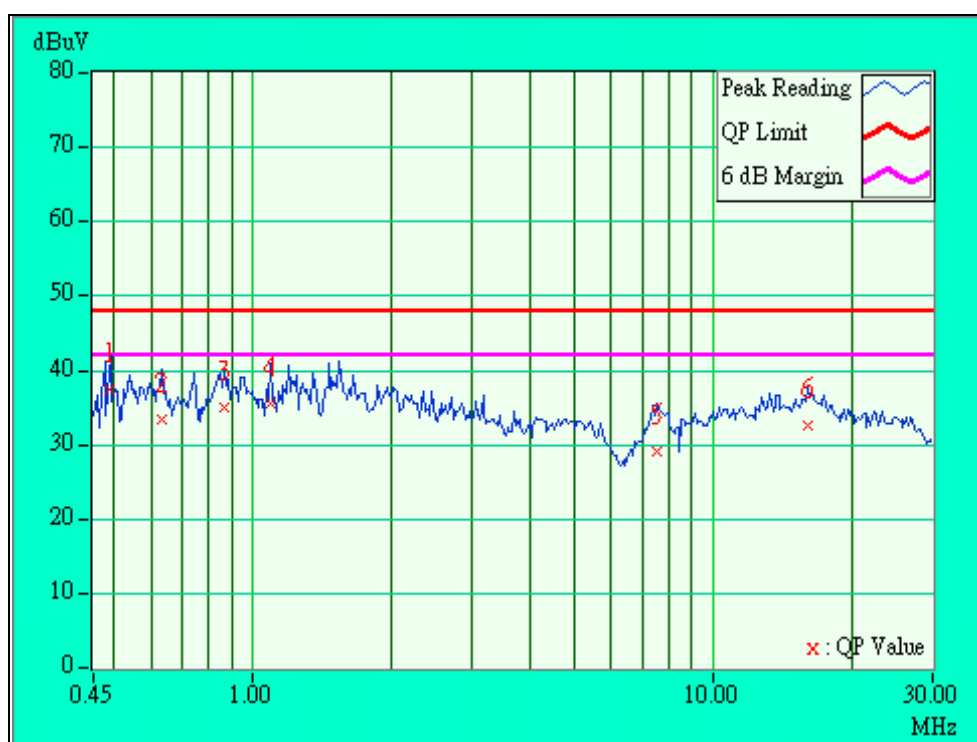


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 1	PHASE	Line (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.48820	0.10	37.44	-	37.54	-	48.00	-	-10.46	-
2	0.63600	0.10	33.28	-	33.38	-	48.00	-	-14.62	-
3	0.86700	0.10	34.92	-	35.02	-	48.00	-	-12.98	-
4	1.09500	0.10	35.67	-	35.77	-	48.00	-	-12.23	-
5	7.58000	0.36	29.06	-	29.42	-	48.00	-	-18.58	-
6	16.10600	0.64	32.58	-	33.22	-	48.00	-	-14.78	-

NOTE:

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

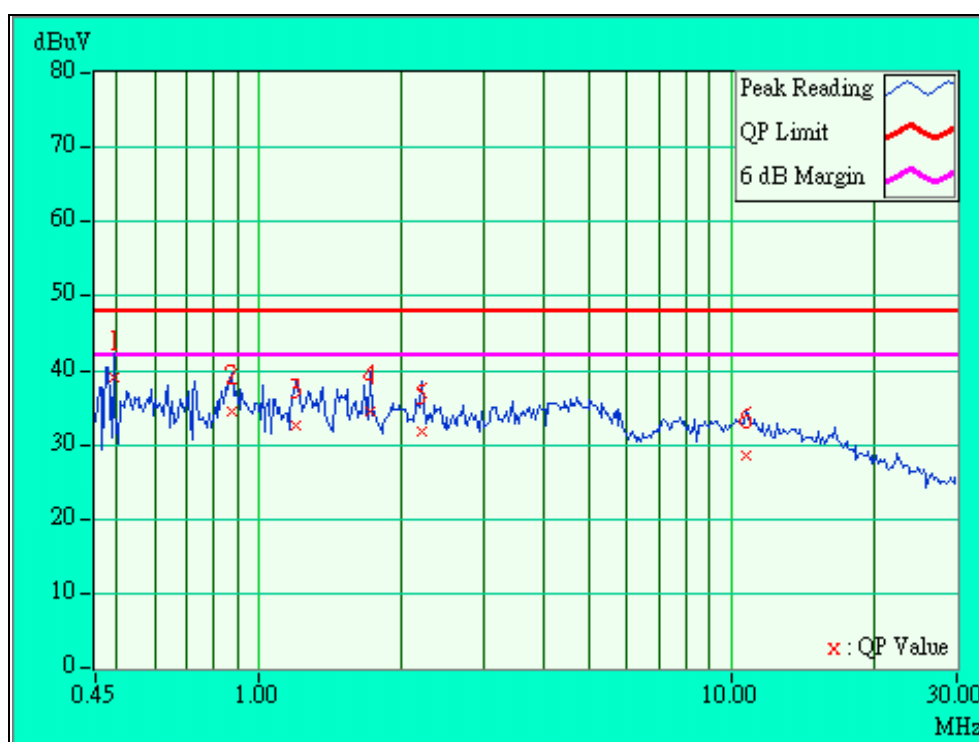


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 6	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.49200	0.10	39.07	-	39.17	-	48.00	-	-8.83	-
2	0.87300	0.10	34.58	-	34.68	-	48.00	-	-13.32	-
3	1.19700	0.10	32.68	-	32.78	-	48.00	-	-15.22	-
4	1.72200	0.10	34.39	-	34.49	-	48.00	-	-13.51	-
5	2.20800	0.12	31.75	-	31.87	-	48.00	-	-16.13	-
6	10.74200	0.54	28.55	-	29.09	-	48.00	-	-18.91	-

NOTE:

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

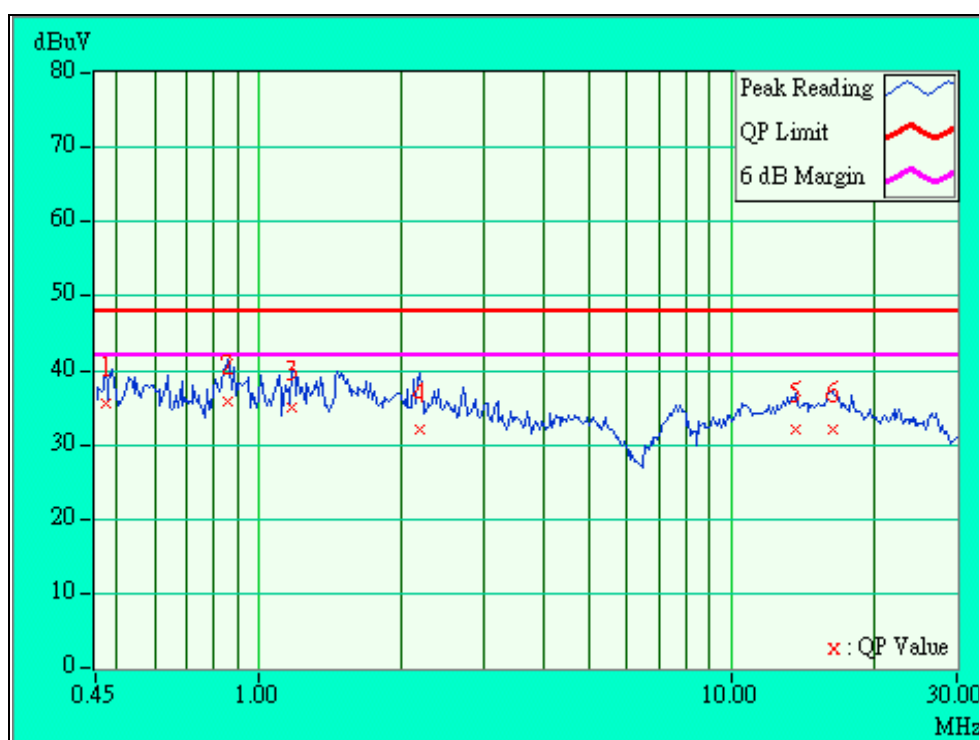


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 6	PHASE	Line (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.47400	0.10	35.43	-	35.53	-	48.00	-	-12.47	-
2	0.86100	0.10	35.82	-	35.92	-	48.00	-	-12.08	-
3	1.17000	0.10	34.98	-	35.08	-	48.00	-	-12.92	-
4	2.18100	0.12	32.12	-	32.24	-	48.00	-	-15.76	-
5	13.72700	0.55	32.02	-	32.57	-	48.00	-	-15.43	-
6	16.39400	0.66	32.03	-	32.69	-	48.00	-	-15.31	-

NOTE:

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

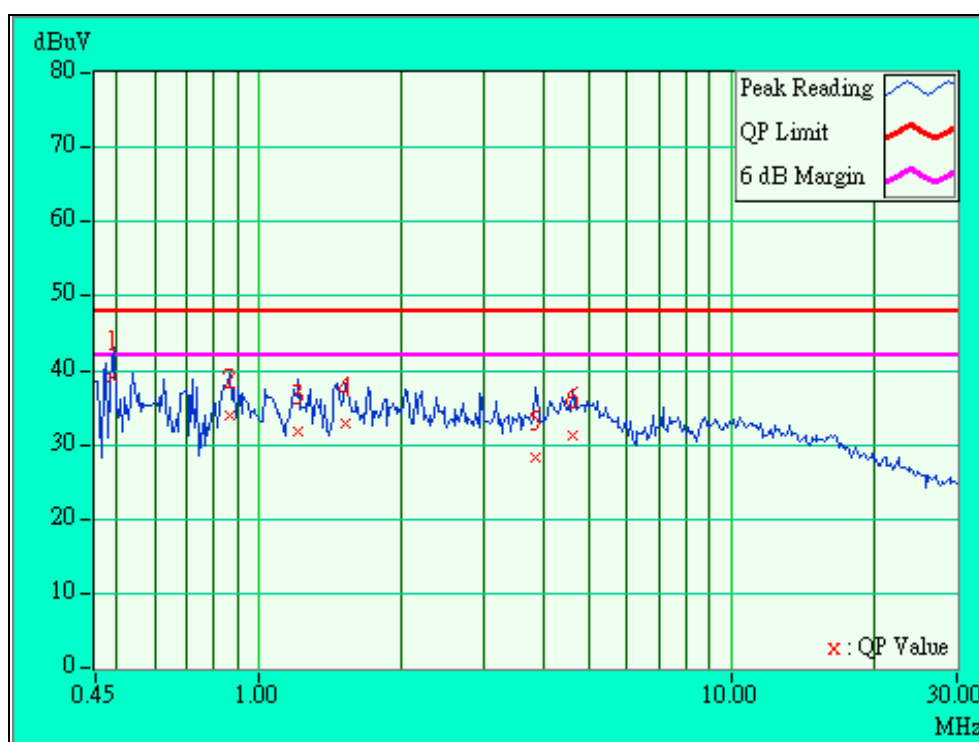


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 11	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.48960	0.10	39.05	-	39.15	-	48.00	-	-8.85	-
2	0.86400	0.10	34.01	-	34.11	-	48.00	-	-13.89	-
3	1.21200	0.10	31.82	-	31.92	-	48.00	-	-16.08	-
4	1.52400	0.10	32.85	-	32.95	-	48.00	-	-15.05	-
5	3.85200	0.29	28.40	-	28.69	-	48.00	-	-19.31	-
6	4.59300	0.32	31.23	-	31.55	-	48.00	-	-16.45	-

NOTE:

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

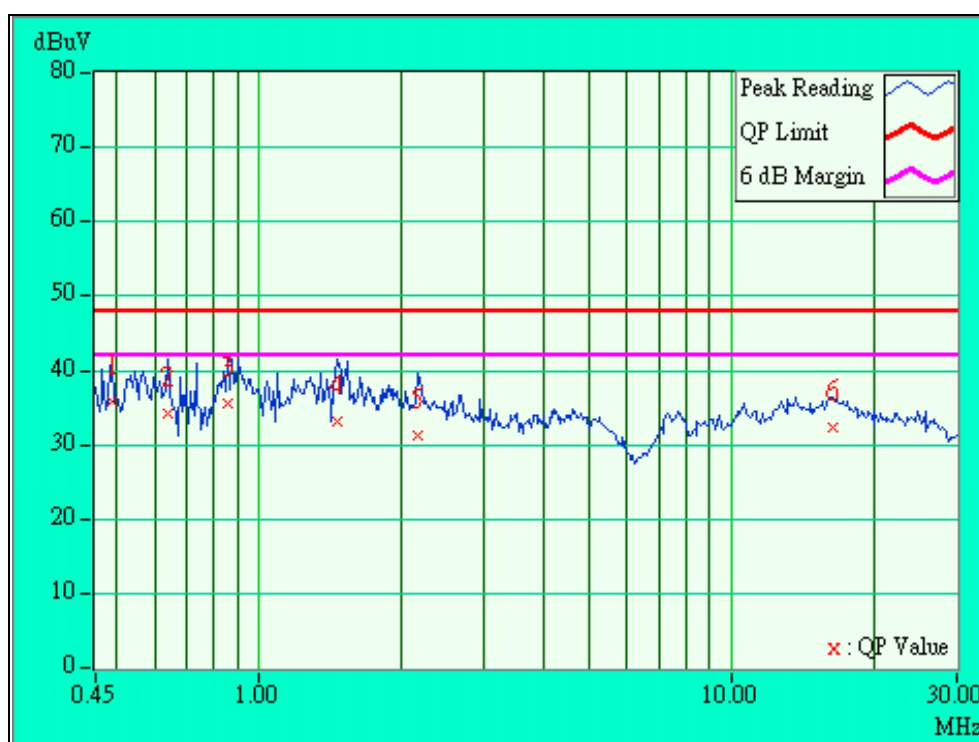


EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	6dB BANDWIDTH	10 kHz
MODE	Channel 11	PHASE	Line (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.48729	0.10	35.83	-	35.93	-	48.00	-	-12.07	-
2	0.64200	0.10	34.14	-	34.24	-	48.00	-	-13.76	-
3	0.85800	0.10	35.68	-	35.78	-	48.00	-	-12.22	-
4	1.45500	0.10	33.12	-	33.22	-	48.00	-	-14.78	-
5	2.17500	0.12	31.30	-	31.42	-	48.00	-	-16.58	-
6	16.47200	0.66	32.19	-	32.85	-	48.00	-	-15.15	-

NOTE:

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





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 (MHz)	Field Strength of Fundamental	
	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	Nov. 3, 2001
* HP Preamplifier	8449B	3008A01201	Dec. 13, 2001
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2001
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 25, 2002
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2001
* 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
* Antenna (Horn)	BBHA9120-D	D130	July 10, 2002
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 2, 2002
Open Field Test Site	Site 5	ADT-R05	July 28, 2002
VCCI Site Registration No.	Site 5	R-1039	NA
Site Registration No.	FCC: 90422 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.



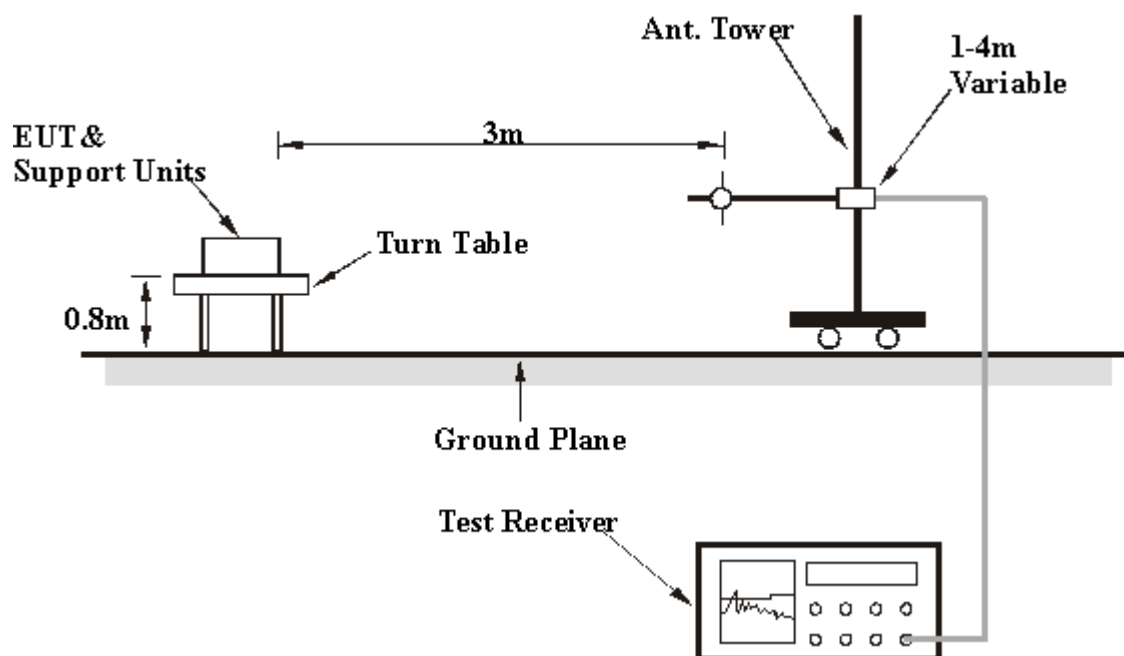
4.2.3 TEST PROCEDURES

- 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 peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection 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(A)

EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	FREQUENCY RANGE	30-1000 MHz
MODE	Channel 11	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	137.84	33.8 QP	43.50	-9.70	2.13H	237	20.40	10.84	2.55	0.00	-13.39
2	193.48	36.9 QP	43.50	-6.60	1.05H	249	25.70	8.49	2.74	0.00	-11.24
3	265.14	32.6 QP	46.00	-13.40	1.05H	297	17.60	12.00	2.96	0.00	-14.96
4	299.24	34.0 QP	46.00	-12.00	1.10H	52	18.40	12.54	3.10	0.00	-15.64
5	322.47	37.2 QP	46.00	-8.80	1.29H	68	20.80	13.14	3.23	0.00	-16.36
6	365.47	33.9 QP	46.00	-12.10	1.12H	54	16.20	14.25	3.40	0.00	-17.66
7	374.47	39.8 QP	46.00	-6.20	1.12H	331	21.80	14.55	3.42	0.00	-17.98
8	452.47	37.8 QP	46.00	-8.20	1.33H	1	18.40	16.11	3.24	0.00	-19.36
9	600.37	39.7 QP	46.00	-6.30	1.83H	358	18.50	17.72	3.53	0.00	-21.26
10	797.50	41.7 QP	46.00	-4.30	1.82H	43	18.50	19.13	4.09	0.00	-23.23
11	933.24	38.6 QP	46.00	-7.40	1.96H	279	13.40	19.85	5.30	0.00	-25.16

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.



EUT	Notebook PC	MODEL	Solo9550
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	64.19	37.0 QP	40.00	-3.00	1.53V	201	30.41	4.55	2.09	0.00	-6.64
2	129.10	34.0 QP	43.50	-9.50	1.00V	262	20.50	11.03	2.51	0.00	-13.54
3	132.50	37.0 QP	43.50	-6.50	1.05V	132	23.50	10.97	2.52	0.00	-13.49
4	192.55	40.4 QP	43.50	-3.10	1.07V	344	29.20	8.49	2.74	0.00	-11.24
5	194.90	41.2 QP	43.50	-2.30	1.00V	357	30.00	8.46	2.76	0.00	-11.23
6	220.47	31.1 QP	46.00	-14.90	2.55V	300	18.50	9.73	2.83	0.00	-12.56
7	260.47	33.1 QP	46.00	-12.90	1.00V	190	18.20	11.93	2.97	0.00	-14.90
8	324.00	43.5 QP	46.00	-2.50	1.69V	345	27.10	13.14	3.23	0.00	-16.36
9	332.93	40.9 QP	46.00	-5.10	1.43V	169	24.20	13.38	3.28	0.00	-16.66
10	385.44	42.4 QP	46.00	-3.60	1.39V	15	24.00	14.92	3.44	0.00	-18.38
11	438.24	43.5 QP	46.00	-2.50	1.15V	25	24.30	15.89	3.28	0.00	-19.19
12	665.85	39.3 QP	46.00	-6.70	1.68V	335	17.60	17.85	3.87	0.00	-21.72
13	796.40	38.6 QP	46.00	-7.40	1.76V	0	15.40	19.13	4.09	0.00	-23.24

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.



EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	FREQUENCY RANGE	Above 1000 MHz
MODE	Channel 1	DETECTOR FUNCTION	Peak, Average
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2060.40	47.4 PK	74.00	-26.60	1.05H	301	18.70	25.39	3.31	0.00	-28.70
2	*2410.70	102.5 PK	-	-	1.12H	280	71.69	27.19	3.62	0.00	-30.82
3	*2410.70	96.2 AV	-	-	1.12H	280	65.40	27.19	3.62	0.00	-30.82
4	4120.40	47.6 PK	74.00	-26.40	1.28H	224	12.54	30.28	4.79	0.00	-35.07
5	4824.10	50.8 PK	74.00	-23.20	1.35H	182	14.20	31.43	5.21	0.00	-36.64

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2060.00	46.9 PK	74.00	-27.10	1.24V	29	18.20	25.39	3.31	0.00	-28.70
2	*2414.70	102.0 PK	-	-	1.00V	169	71.24	27.19	3.62	0.00	-30.81
3	*2414.70	96.0 AV	-	-	1.00V	169	65.20	27.19	3.62	0.00	-30.81
4	4120.50	49.3 PK	74.00	-24.70	1.26V	132	14.20	30.28	4.79	0.00	-35.07
5	4824.10	51.1 PK	74.00	-22.90	1.10V	268	14.50	31.43	5.21	0.00	-36.64

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. " * " : Fundamental frequency
5. The other emission levels were very low against the limit.



EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	FREQUENCY RANGE	Above 1000 MHz
MODE	Channel 6	DETECTOR FUNCTION	Peak, Average
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2085.50	46.2 PK	74.00	-27.80	1.68H	17	17.40	25.50	3.33	0.00	-28.83
2	*2435.40	102.8 PK	-	-	1.10H	340	71.84	27.30	3.64	0.00	-30.94
3	*2435.40	96.1 AV	-	-	1.10H	340	65.20	27.30	3.64	0.00	-30.94
4	4170.50	51.0 PK	74.00	-23.00	1.54H	5	15.80	30.38	4.81	0.00	-35.19
5	4874.10	51.9 PK	74.00	-22.10	1.09H	296	15.20	31.47	5.25	0.00	-36.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2085.60	46.2 PK	74.00	-27.80	1.66V	347	17.40	25.50	3.33	0.00	-28.83
2	*2438.10	100.0 PK	-	-	1.52V	344	69.05	27.30	3.64	0.00	-30.95
3	*2438.10	93.6 AV	-	-	1.52V	344	62.70	27.30	3.64	0.00	-30.95
4	4170.90	50.0 PK	74.00	-24.00	1.37V	56	14.80	30.38	4.81	0.00	-35.19
5	4874.40	51.3 PK	74.00	-22.70	1.37V	30	14.60	31.47	5.25	0.00	-36.72
6	8340.10	57.5 PK	74.00	-16.50	1.38V	323	13.73	36.73	7.06	0.00	-43.80
7	8340.10	46.2 AV	54.00	-7.80	1.38V	323	2.40	36.73	7.06	0.00	-43.79

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. " * " : Fundamental frequency
5. The other emission levels were very low against the limit.



EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.0" TFT XGA LCD	FREQUENCY RANGE	Above 1000 MHz
MODE	Channel 11	DETECTOR FUNCTION	Peak, Average
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2110.00	47.4 PK	74.00	-26.60	1.51H	356	18.40	25.61	3.35	0.00	-28.96
2	*2463.70	103.2 PK	-	-	1.81H	54	72.10	27.41	3.66	0.00	-31.07.
3	*2463.70	95.6 AV	-	-	1.81H	54	64.50	27.41	3.66	0.00	-31.07.
4	2483.50	50.5 PK	74.00	-23.50	1.44H	119	19.34	27.52	3.68	0.00	-31.20
5	4220.10	50.7 PK	74.00	-23.30	1.58H	42	15.40	30.48	4.83	0.00	-35.30
6	4924.60	50.6 PK	74.00	-23.40	1.56H	164	13.80	31.51	5.28	0.00	-36.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2110.50	46.5 PK	74.00	-27.50	1.49V	10	17.50	25.61	3.35	0.00	-28.96
2	*2461.80	105.6 PK	-	-	1.36V	356	74.50	27.41	3.66	0.00	-31.08
3	*2461.80	99.5 AV	-	-	1.36V	356	68.40	27.41	3.66	0.00	-31.08
4	2483.70	51.9 PK	74.00	-22.10	1.80V	249	20.74	27.52	3.68	0.00	-31.20
5	4220.50	51.1 PK	74.00	-22.90	1.08V	269	15.80	30.48	4.83	0.00	-35.30
6	4924.60	51.4 PK	74.00	-22.60	1.08V	15	14.60	31.51	5.28	0.00	-36.80
7	8440.70	56.4 PK	74.00	-17.60	1.08V	15	12.51	36.78	7.11	0.00	-43.89.
8	8440.70	46.7 AV	54.00	-7.30	1.08V	15	2.80	36.78	7.11	0.00	-43.89

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. " * " : Fundamental frequency
5. The other emission levels were very low against the limit.

4.2.7 TEST RESULTS(B)

EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	FREQUENCY RANGE	30-1000 MHz
MODE	Channel 11	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	64.20	32.4 QP	40.00	-7.60	1.00H	22	25.80	4.55	2.09	0.00	-6.64
2	131.78	32.4 QP	43.50	-11.10	1.00H	148	18.90	10.97	2.52	0.00	-13.49
3	200.14	28.8 QP	43.50	-14.70	1.35H	102	17.56	8.41	2.79	0.00	-11.21
4	213.47	32.5 QP	43.50	-11.00	1.54H	99	20.40	9.29	2.82	0.00	-12.10
5	264.74	33.3 QP	46.00	-12.70	1.00H	87	18.30	12.00	2.96	0.00	-14.97
6	299.95	39.4 QP	46.00	-6.60	1.12H	329	23.80	12.54	3.10	0.00	-15.64
7	316.47	36.8 QP	46.00	-9.20	1.16H	111	20.70	12.95	3.19	0.00	-16.15
8	326.50	37.8 QP	46.00	-8.20	1.16H	355	21.40	13.20	3.24	0.00	-16.45
9	366.50	37.4 QP	46.00	-8.60	1.00H	9	19.70	14.33	3.40	0.00	-17.73
10	466.45	37.1 QP	46.00	-8.90	1.10H	184	17.40	16.37	3.37	0.00	-19.75
11	500.01	38.2 QP	46.00	-7.80	1.00H	59	17.60	16.96	3.68	0.00	-20.64
12	599.24	38.6 QP	46.00	-7.40	1.41H	336	17.40	17.72	3.53	0.00	-21.26
13	800.47	38.7 QP	46.00	-7.30	1.54H	212	15.40	19.17	4.08	0.00	-23.26

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.



EUT	Notebook PC	MODEL	Solo9550
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	69.70	27.9 QP	40.00	-12.10	1.18V	320	21.40	4.42	2.07	0.00	-6.49
2	112.50	37.5 QP	43.50	-6.00	1.18V	38	24.10	10.99	2.37	0.00	-13.36
3	132.47	33.9 QP	43.50	-9.60	1.38V	257	20.40	10.97	2.52	0.00	-13.49
4	166.47	35.9 QP	43.50	-7.60	1.19V	291	24.30	8.98	2.62	0.00	-11.61
5	199.24	31.6 QP	43.50	-11.90	2.12V	32	20.40	8.41	2.79	0.00	-11.21
6	219.40	36.5 QP	46.00	-9.50	2.23V	231	24.10	9.58	2.82	0.00	-12.42
7	266.41	35.4 QP	46.00	-10.60	1.83V	262	20.40	12.00	2.96	0.00	-14.96
8	338.40	34.2 QP	46.00	-11.80	1.43V	66	17.40	13.50	3.31	0.00	-16.81
9	454.97	34.8 QP	46.00	-11.20	1.11V	24	15.40	16.16	3.26	0.00	-19.43
10	463.47	36.5 QP	46.00	-9.50	1.18V	0	16.80	16.33	3.35	0.00	-19.68
11	586.84	38.6 QP	46.00	-7.40	1.39V	77	17.50	17.57	3.56	0.00	-21.13
12	599.47	38.0 QP	46.00	-8.00	1.01V	85	16.80	17.72	3.53	0.00	-21.25
13	799.48	39.7 QP	46.00	-6.30	1.02V	326	16.50	19.15	4.08	0.00	-23.24
14	866.35	41.5 QP	46.00	-4.50	1.55V	39	17.50	19.69	4.34	0.00	-24.02

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.



EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	FREQUENCY RANGE	Above 1000 MHz
MODE	Channel 1	DETECTOR FUNCTION	Peak, Average
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2060.50	47.1 PK	74.00	-26.90	1.44H	97	18.40	25.39	3.31	0.00	-28.70
2	*2411.00	105.0 PK	-	-	1.00H	108	74.15	27.19	3.62	0.00	-30.81
3	*2411.00	99.2 AV	-	-	1.00H	108	68.40	27.19	3.62	0.00	-30.81
4	4120.50	49.4 PK	74.00	-24.60	1.34H	108	14.30	30.28	4.79	0.00	-35.07
5	4824.20	50.3 PK	74.00	-23.70	1.23H	268	13.70	31.43	5.21	0.00	-36.64

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2060.70	46.9 PK	74.00	-27.10	1.06V	69	18.20	25.39	3.31	0.00	-28.70
2	*2411.20	104.3 PK	-	-	2.07V	310	73.47	27.19	3.62	0.00	-30.81
3	*2411.20	98.9 AV	-	-	2.07V	310	68.10	27.19	3.62	0.00	-30.81
4	4120.50	50.8 PK	74.00	-23.20	1.69V	255	15.70	30.28	4.79	0.00	-35.07
5	4824.50	51.1 PK	74.00	-22.90	1.48V	125	14.50	31.43	5.21	0.00	-36.64

NOTE:

6. Emission level = Raw value - Correction Factor
7. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
8. Margin value = Emission level - Limit value
9. " * " : Fundamental frequency
10. The other emission levels were very low against the limit.



EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	FREQUENCY RANGE	Above 1000 MHz
MODE	Channel 6	DETECTOR FUNCTION	Peak, Average
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2085.50	46.1 PK	74.00	-27.90	1.46H	7	17.30	25.50	3.33	0.00	-28.83
2	*2436.10	100.8 PK	-	-	1.21H	312	69.86	27.30	3.64	0.00	-30.94
3	*2436.10	95.7 AV	-	-	1.21H	312	64.80	27.30	3.64	0.00	-30.94
4	4170.10	49.9 PK	74.00	-24.10	1.45H	341	14.70	30.38	4.81	0.00	-35.19
5	4874.10	50.9 PK	74.00	-23.10	1.43H	334	14.20	31.47	5.25	0.00	-36.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2085.50	46.3 PK	74.00	-27.70	1.29V	315	17.50	25.50	3.33	0.00	-28.83
2	*2435.40	103.6 PK	-	-	1.16V	62	72.69	27.30	3.64	0.00	-30.94.
3	*2435.40	98.1 AV	-	-	1.16V	62	67.20	27.30	3.64	0.00	-30.94.
4	4170.10	51.0 PK	74.00	-23.00	1.13V	42	15.80	30.38	4.81	0.00	-35.19
5	4874.30	51.5 PK	74.00	-22.50	1.63V	355	14.80	31.47	5.25	0.00	-36.72

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. " * " : Fundamental frequency
5. The other emission levels were very low against the limit.



EUT	Notebook PC	MODEL	Solo9550
LCD PANEL	15.7" TFT XGA LCD	FREQUENCY RANGE	Above 1000 MHz
MODE	Channel 11	DETECTOR FUNCTION	Peak, Average
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 1050 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY: Gary Chang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2110.50	47.4 PK	74.00	-26.60	1.14H	349	18.40	25.61	3.35	0.00	-28.96
2	*2462.10	104.2 PK	-	-	1.00H	5	73.08	27.41	3.66	0.00	-31.08
3	*2462.10	96.8 AV	-	-	1.00H	5	65.70	27.41	3.66	0.00	-31.08
4	2483.50	49.8 PK	74.00	-24.20	1.86H	89	18.63	27.52	3.68	0.00	-31.21
5	4220.50	48.7 PK	74.00	-25.30	1.55H	38	13.40	30.48	4.83	0.00	-35.31
6	4925.50	50.9 PK	74.00	-23.10	1.37H	21	14.06	31.51	5.28	0.00	-36.81

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2110.00	46.2 PK	74.00	-27.80	1.50V	311	17.20	25.61	3.35	0.00	-28.96
2	*2461.20	104.5 PK	-	-	1.81V	350	73.47	27.41	3.66	0.00	-31.08
3	*2461.20	99.2 AV	-	-	1.81V	350	68.10	27.41	3.66	0.00	-31.08
4	2483.50	48.8 PK	74.00	-25.20	1.36V	74	17.60	27.52	3.68	0.00	-31.21
5	4221.50	50.7 PK	74.00	-23.30	1.48V	151	15.40	30.48	4.83	0.00	-35.30
6	4924.20	51.4 PK	74.00	-22.60	1.62V	58	14.60	31.51	5.28	0.00	-36.80

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. " * " : Fundamental frequency
5. The other emission levels were very low against the limit.

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
ROHDE & SCHWARZ TEST RECEIVER	ESMI	839379/002	Dec. 28, 2001
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7475A	2641V27755	N/A

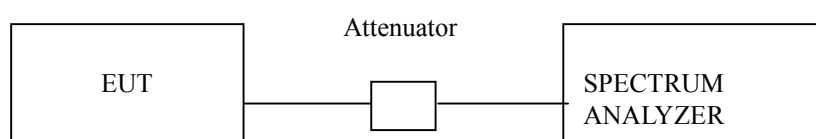
NOTE:

- 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.

4.3.3 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



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

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.

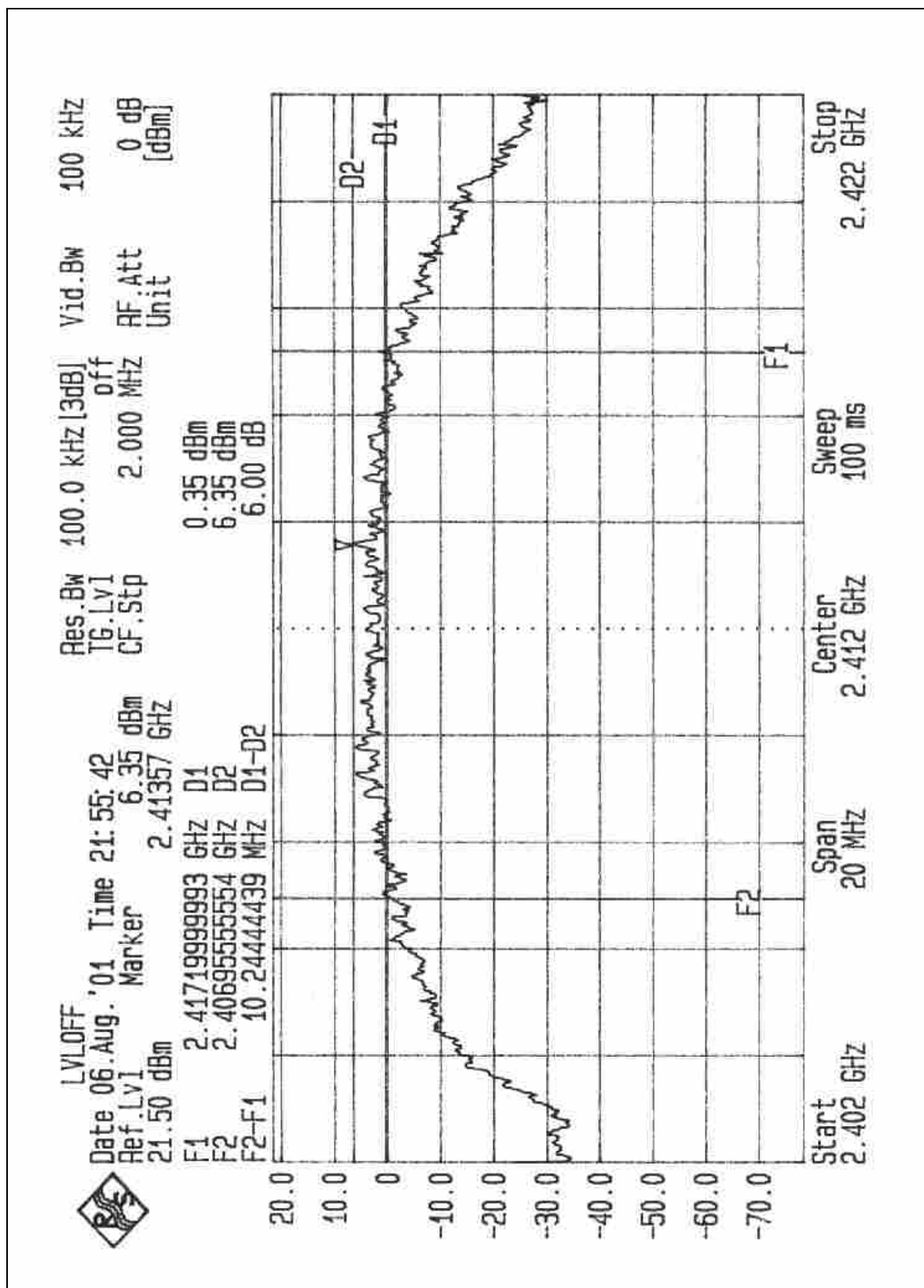


4.3.6 TEST RESULTS

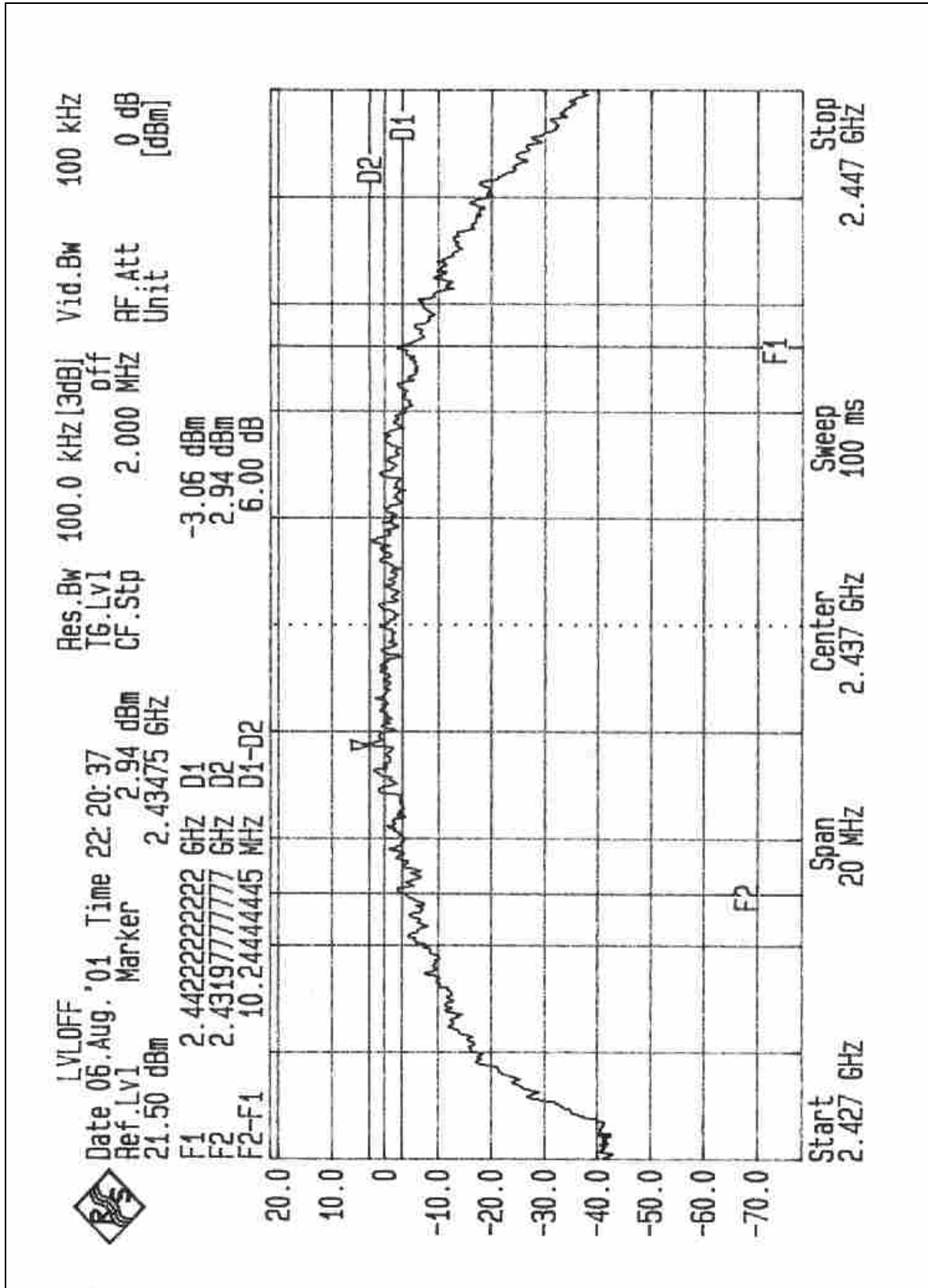
EUT	Notebook PC	MODEL	Solo9550
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa
TESTED BY: Gary Chang			

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.24	0.5	PASS
6	2437	10.24	0.5	PASS
11	2462	10.20	0.5	PASS

CH1

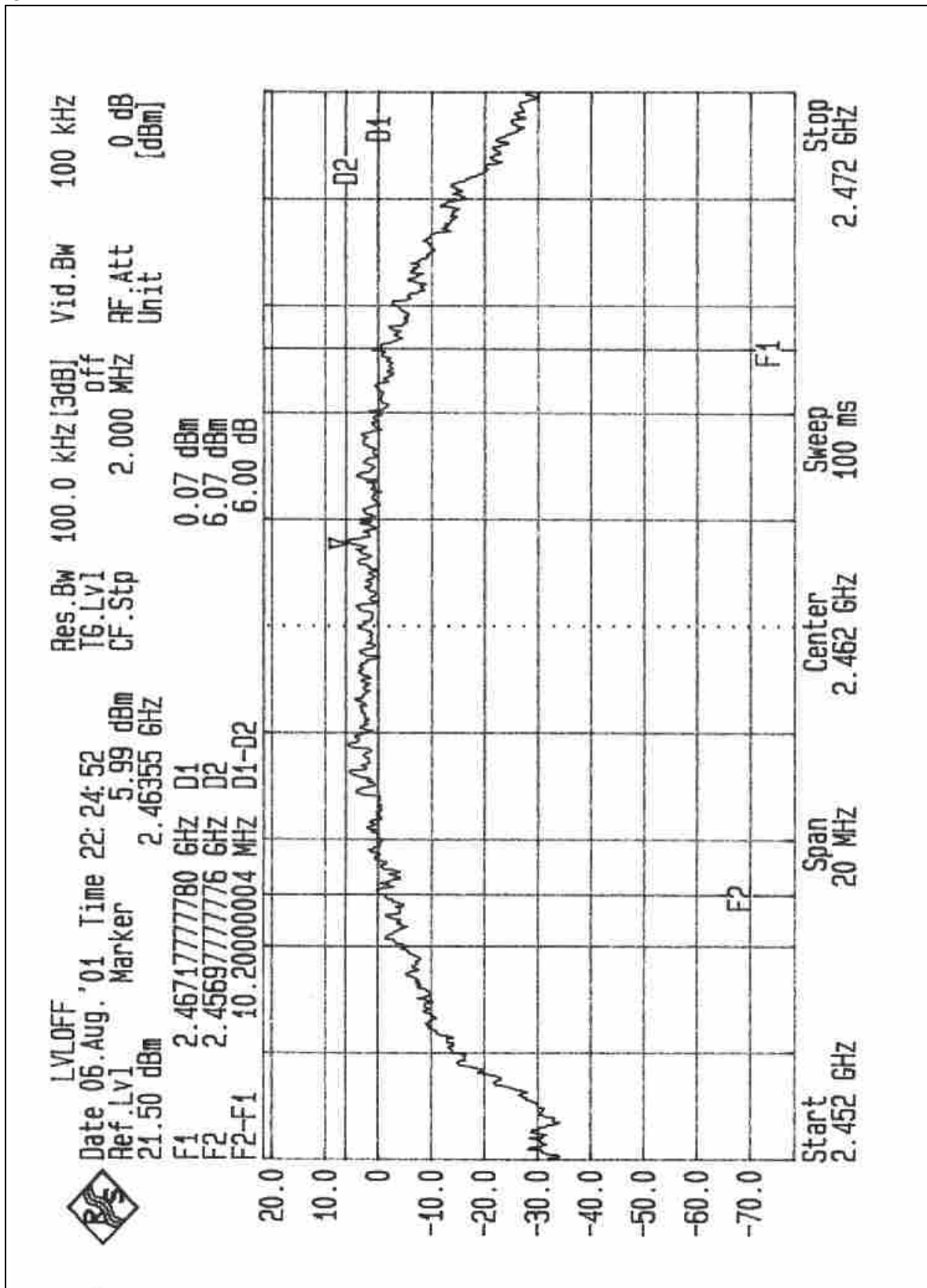


CH6





CH11



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 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ TEST RECEIVER	ESMI	839379/002	Dec. 28, 2001
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7475A	2641V27755	N/A

NOTE:

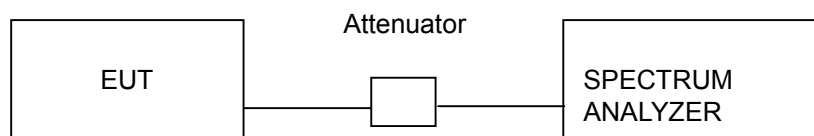
1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.3 TEST PROCEDURES

- a. The transmitter output was connected to the spectrum analyzer through an attenuator.
- b. The center frequency of the spectrum analyzer was set to the fundamental frequency and using 3 MHz RBW and 3 MHz VBW.
- c. The span of the spectrum analyzer should be larger than 6dB BandWidth plus 10MHz.
- d. Used Peak Search to read the peak power after Maximum Hold function was activated.
- e. Shifted the marker to +/- 3MHz and +/-6MHz, and recorded the reading.
- f. The Maximum Peak Output Power was the linear summation of the 5 readings in (4) and (5).

NOTE: This measurement is the total power of 15MHz bandwidth which is far more wider than 6dB bandwidth.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.5



4.4.6 TEST RESULTS

EUT	Notebook PC	MODEL	Solo9550
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	30 deg. C, 60%RH, 1005 hPa
TESTED BY: Gary Chang			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20.71	30	PASS
6	2437	17.68	30	PASS
11	2462	20.43	30	PASS

Note: The gain of the antenna is only – 5 dBi, so the EIRP output power of this device is smaller than 100mW.