



ATC Lab Co., Ltd

25 South Ronggu Rd, Shunde, Foshan, Guangdong,
China
Telephone: +86 (0) 757 2361 2690
Fax: +86 (0) 757 2361 2537

Report No.: ATC090458901
Page: 1 of 14
FCC ID: XCKNB001

TEST REPORT

Application No.: ATC0904589RF
Applicant: FUHONGXING SCIENCE AND TECHNOLOGY CO, LTD.
Address of Applicant: Number 2,Heping Industrial Park ,Longguan Road,Sanlian village,Longhua Street,Baoan Area,Shenzhen, Guangdong
FCC ID: XCKNB001
Fundamental Carrier Frequency : 2.412GHz to 2.462GHz
Equipment Under Test (EUT):
Name: Notebook computer
Model No.: NB001
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Standards: FCC PART 15 Subpart B: 2008
Date of Receipt: 18 April 2009
Date of Test: 20 April to 26 May 2009
Date of Issue: 26 May 2009

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Louis Lu
Laboratory QC Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of ATC International Electrical Approvals or testing done by ATC International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by ATC International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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1 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Conducted Emissions	FCC PART 15:2008	Section 15.107	PASS
Radiated Emission	FCC PART 15:2008	Section 15.109	PASS

Remark:

Item No.: NB001(white), NB001(red), NB001(black), NB001(yellow);

Only the Item NB001(white) was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above items.

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3 General Information

3.1 General Description of E.U.T.

Name: Notebook computer
Item No.: NB001
Frequency Range: 2412MHz-2462MHz
Channel number: 11 channels
Type of modulation(802.11b): DSSS (CCK, DQPSK, DBPSK)
Type of modulation(802.11g): OFDM (64QAM, 16QAM, QPSK, BPSK)
Data rate(802.11b): 1/2/5.5/11Mbps
Data rate(802.11g): 6/9/12/18/24/36/48/54Mbps
Antenna Type: Integral
Antenna Gain: +1.30dBi

Working Frequency of Each channel:

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
001	2412	002	2417	003	2422
004	2427	005	2432	006	2437
007	2442	008	2447	009	2452
010	2457	011	2462		

Note:

Regards to the frequency band over 10MHz, the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.

So the there channel as follow:

Lowest channel: 2412MHz

Middle channel: 2437MHz

Highest channel: 2462 MHz

3.2 Test Location

All tests were performed at:

25 South Ronggu Rd, Shunde, Foshan, Guandong, China

No tests were sub-contracted.

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3.3 Test Facility

The test facility was recognized, certified, or accredited by the following organizations:

- **CNAL – LAB Code: L2244**

ATC Lab Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC – Registration No.: 580210**

ATC Lab Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC was maintained in our files.

3.4 Other Information Requested by the Customer

None

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4 Test Results

4.1 Test Instruments

RE in chamber					
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due Date
GAL-EMC001	Semi-anechoic Chamber	ETS	N/A	N/A	2009-05-24
GAL-EMC003	Receiver	SCHAFFNER	SMR4503	11725	2009-07-08
GAL-EMC004	Spectrum analyzer	R&S	FSP B4	100366	2009-07-08
GAL-EMC007	Double-ridged horn (1-18GHz)	ETS	3115	6587	2010-08-02
GAL-EMC008	amplifier (0.5G-26.5G)	Agilent	83017A	MY39500438	2009-07-11
GAL-EMC017	Biconilog Antenna (26-1300MHz)	ETS	3142C	00042672	2009-09-28
GAL-EMC018	Pre-amplifier (0.1-1300MHz)	Agilent	8447D	MY3952386	2009-11-23
GAL-EMC025	Coaxial cable	ATC	NA	NA	2009-10-15
GAL-EMC027	Band filter	ASI	82346	S06389	2009-9-27

Conducted Emission					
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due Date
GAL-EMC002	Shielding Room	ETS	N/A	N/A	2009-05-30
GAL-EMC003	Receiver	SCHAFFNER	SMR4503	11725	2009-07-08
GAL-EMC005	Line impedance stabilization network	ETS	4825/2	1161	2009-07-08
GAL-EMC072	Absorbing Clamp	TESEQ	AMZ41A	22179	2008-11-30
GAL-EMC024	Coaxial cable	ATC	NA	NA	2009-10-15

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4.2 E.U.T. Operation

	Model: YS06-19034D
Power supply:	Input: AC 100-240V 50/60Hz 1.5A MAX Output: DC 19V 3.4A
Test Voltage	AC 120V 60Hz
Operating Environment	
Temperature:	24 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
USB port mode	Connect the EUT with U-disk, and exchange data between them.
SD card mode	Connect the EUT with SD card, and exchange data between them.
VGA port mode	Connect the EUT with display, and the
LAN mode	Connect internet by LAN network line, and keep the EUT in playing internet program.
WIFI mode	Connect internet by wireless router, and keep the EUT in playing internet program.
Work-1 mode	Keep the EUT connect Port-related equipment, for example: USB port connect U-disk, SD port connect SD card, and exchange data between them. the output video VGA port connect the LCD display. And the EUT play internet program by LAN port. The EUT power supply by AC adapter.
Work-2 mode	Keep the EUT connect Port-related equipment, for example: USB port connect U-disk, SD port connect SD card, and exchange data between them. the output video VGA port connect the LCD display. And the EUT play internet program by LAN port. The EUT power supply by itself DC battery

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4.3 Test Procedure & Measurement Data

4.3.1 Conducted Emissions

Test Requirement: FCC Part15 B Section 15.107

Test Method: ANSI C63.4:2003

Frequency Range: 150KHz to 30MHz

Class / Severity: Class B

Receive Detector: RBW=9KHz VBW=30KHz

Operating Environment:

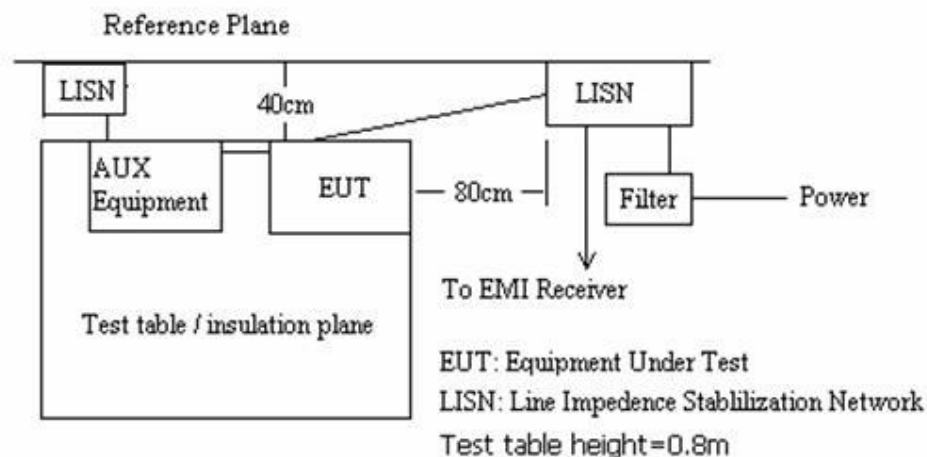
Temperature: 24 °C Humidity: 52 % RH Atmospheric Pressure: 1010 Mbar

Test mode: Scan USB port mode, SD card mode, VGA mode, LAN mode, WIFI mode, work-1 mode and work-2 mode

1>.First change the EUT screen resolution, and found the 1024x600 which it is worse resolution.

Test procedure: 2>.Holding the screen resolution 1024x600, Pre-scan the USB port mode, SD card mode, VGA mode, LAN mode, WIFI mode, work-1 mode and work-2 mode, and found the work-1 mode which it is worse mode.

Plan View of Test Setup



4.3.1.1 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector and average detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected. The EUT communicating with worst case mode is work-1 mode.

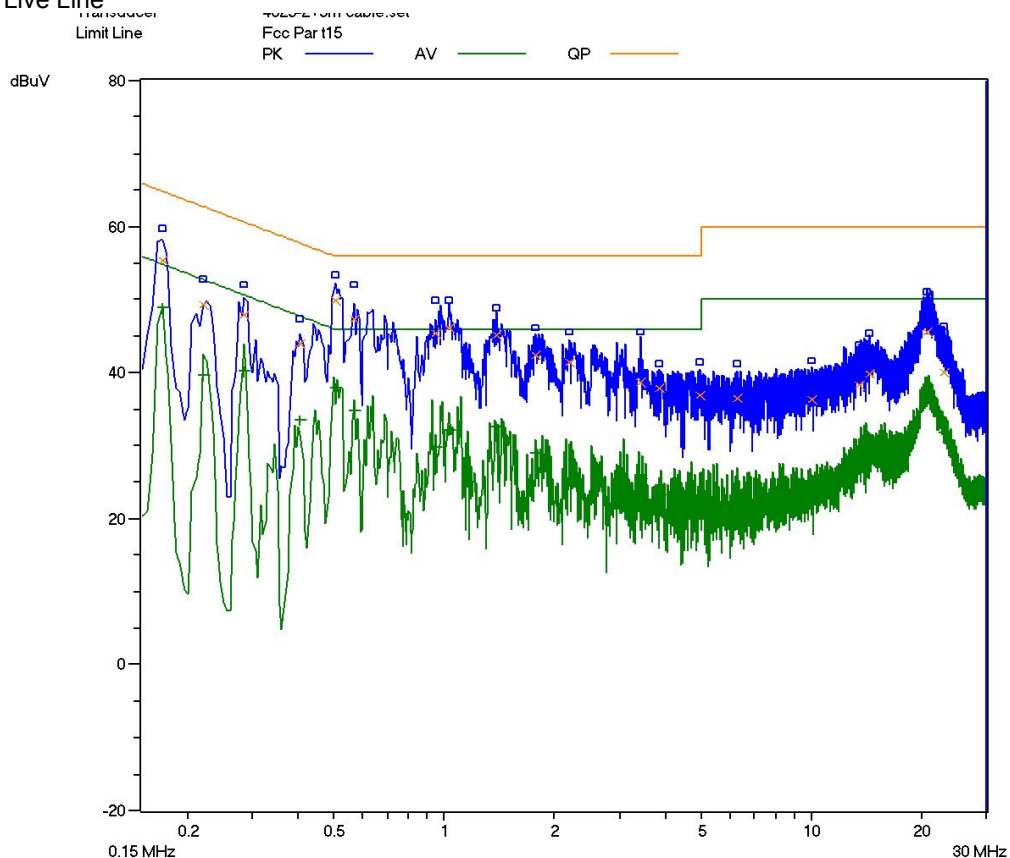
The following Quasi-Peak and Average measurements were performed on the EUT:

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Live Line



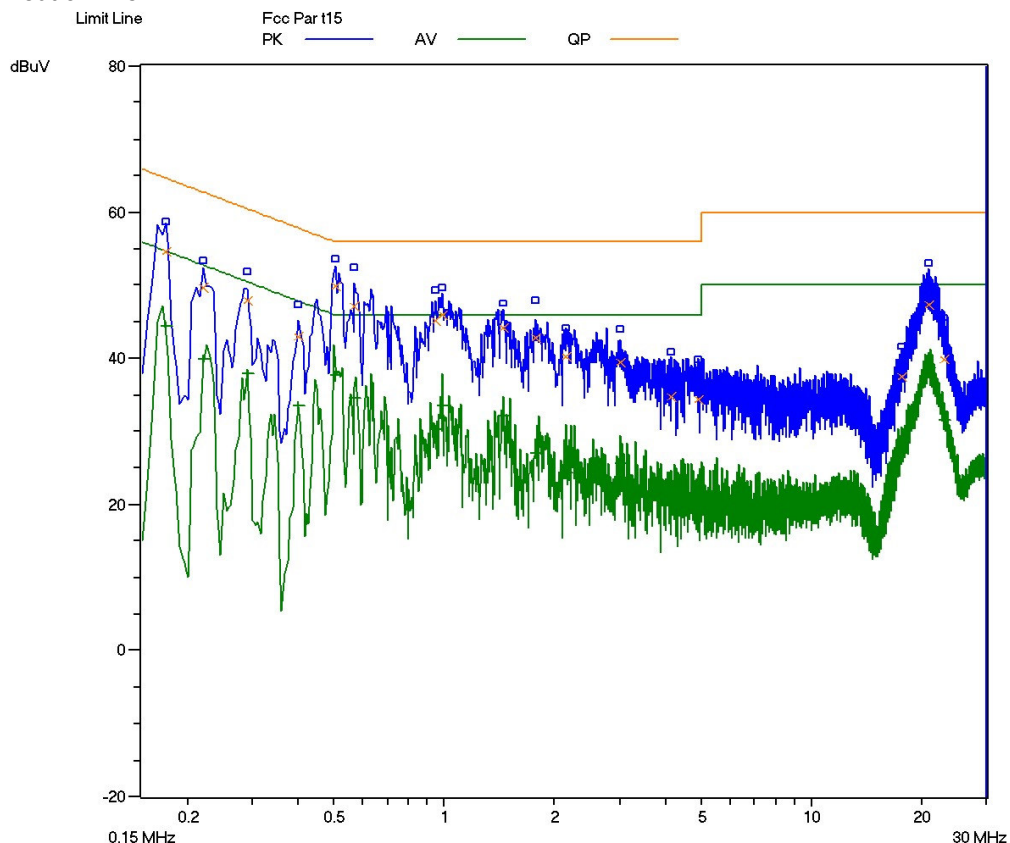
Frequency (MHz)	Level PK (dBuV)	Level AV (dBuV)	Level QP (dBuV)	Limit AV (dBuV)	Limit QP (dBuV)	Over Limit AV	Over Limit QP
0.170	59.61	48.93	55.42	55.00	65.00	-6.07	-9.58
0.505	53.50	37.87	49.95	46.00	56.00	-8.13	-6.05
0.570	52.45	34.73	47.43	46.00	56.00	-11.27	-8.57
1.385	48.91	32.67	45.17	46.00	56.00	-13.33	-10.83
3.430	45.50	25.52	38.65	46.00	56.00	-20.48	-17.35
20.635	51.16	37.33	45.64	50.00	60.00	-12.67	-14.36

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Neutral Line



Frequency (MHz)	Level PK (dBuV)	Level AV (dBuV)	Level QP (dBuV)	Limit AV (dBuV)	Limit QP (dBuV)	Over Limit AV	Over Limit QP
0.175	58.81	44.44	54.63	54.70	64.70	-10.26	-10.07
0.290	51.93	37.97	47.95	50.50	60.50	-12.53	-12.55
0.505	53.66	37.72	49.84	46.00	56.00	-8.28	-6.16
0.570	52.54	34.57	47.28	46.00	56.00	-11.43	-8.72
1.765	47.91	27.14	42.86	46.00	56.00	-18.86	-13.14
20.885	53.07	38.74	47.32	50.00	60.00	-11.26	-12.68

TEST RESULTS: The unit does meet the FCC requirement

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4.3.2 Radiated Emissions

Test Requirement: FCC Part15 C Section 15.109

Test Method: ANSI C63.4

Test site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Test Range: 30MHz to 5GHz

Receive setup:

Frequency (MHz)	Receive detector	RBW	VBW	Value
30-1000	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1000	Peak	1MHz	1MHz	Peak, average

15.209 Limit:

Frequency range (MHz)	Limit (dBuV/m@3m)
30-88	40.0 (QP Value)
88-216	43.5 (QP Value)
216-960	46.0 (QP Value)
960-1000	54.0(QP Value)
Above 1000	54.0 (Average Value) 74.0 (Peak Value)

Remark: The supreme clock frequency of this product is 1.6GHz; According to FCC part 15.33(b), the frequency range of unwanted radiation will be tested to 8.0GHz.

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Test Configuration

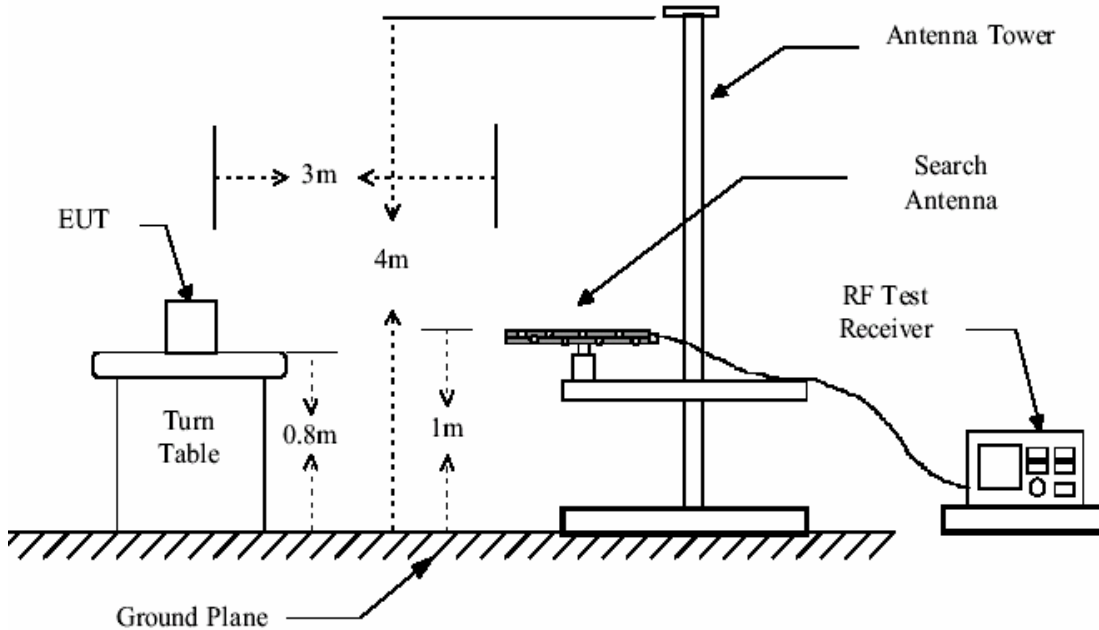


Figure1: 30MHz to 1GHz radiated emissions test configuration

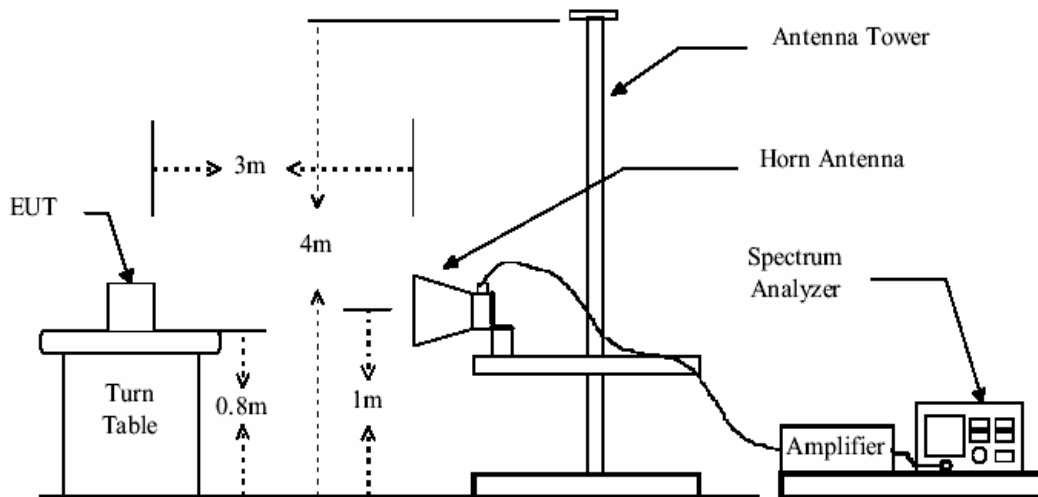


Figure 2: Above 1GHz radiated emissions test configuration

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**Test Procedure:**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. The EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. Change the EUT screen resolution, and found the 1024x600 which it is worse resolution.
8. Holding the screen resolution 1024x600, Pre-scan the USB port mode, SD card mode, VGA mode, LAN mode, WIFI mode, work-1 mode and work-2 mode, and found the work-1 mode which it is worse mode.

Radiated emission below 1GHz:**Test in work-1 mode****Vertical**

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
140.58	1.30	8.15	27.52	47.46	29.39	43.50	-14.11
203.63	1.42	10.40	27.13	45.55	30.24	43.50	-13.26
299.66	1.90	13.85	26.72	43.58	32.61	46.00	-13.39
479.11	2.52	17.80	27.65	39.80	32.47	46.00	-13.53
629.46	2.76	20.52	27.51	40.57	36.34	46.00	-9.66
797.27	3.20	22.09	26.95	36.36	34.70	46.00	-11.30

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
48.43	0.78	8.47	28.11	53.51	34.65	40.00	-5.35
123.96	1.26	7.82	27.65	54.86	36.29	43.50	-7.21
206.54	1.44	10.52	27.12	42.19	27.03	43.50	-16.47
311.30	1.94	14.33	26.81	41.48	30.94	46.00	-15.06
431.58	2.34	16.52	27.51	41.24	32.59	46.00	-13.41
629.46	2.76	20.52	27.51	43.91	39.68	46.00	-6.32

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Radiated emission above 1GHz:

Vertical:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Value
1869.5	4.31	30.94	38.02	60.18	57.41	74.00	-16.59	Peak
3218.7	5.43	32.57	38.46	58.49	58.03	74.00	-15.97	Peak
5538.4	6.86	34.58	38.27	56.87	60.04	74.00	-13.96	Peak
6903.6	7.15	34.85	38.11	58.94	62.83	74.00	-11.17	Peak
7618.2	7.59	35.93	37.38	57.22	63.36	74.00	-10.64	Peak
1869.5	4.31	30.94	38.02	45.73	42.96	54.00	-11.04	average
3218.7	5.43	32.57	38.46	43.61	43.15	54.00	-10.85	average
5538.4	6.86	34.58	38.27	42.58	45.75	54.00	-8.25	average
6903.6	7.15	34.85	38.11	43.67	47.56	54.00	-6.44	average
7618.2	7.59	35.93	37.38	42.49	48.63	54.00	-5.37	average

Horizontal:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Value
1578.8	3.86	28.56	38.07	62.48	56.83	74.00	-17.17	Peak
2783.2	5.12	32.50	38.42	59.87	59.07	74.00	-14.93	Peak
3685.4	5.64	32.61	38.51	59.42	59.16	74.00	-14.84	Peak
5231.6	6.72	34.32	38.56	58.73	61.21	74.00	-12.79	Peak
7835.5	7.62	36.08	37.27	56.64	63.07	74.00	-10.93	Peak
1578.8	3.86	28.56	38.07	48.76	43.11	54.00	-10.89	average
2783.2	5.12	32.50	38.42	45.61	44.81	54.00	-9.19	average
3685.4	5.64	32.61	38.51	45.68	45.42	54.00	-8.58	average
5231.6	6.72	34.32	38.56	45.91	48.39	54.00	-5.61	average
7835.5	7.62	36.08	37.27	42.18	48.61	54.00	-5.39	average

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor.

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