## Certification

of

Receiver Model: FT-7800R

FCC ID: K6620165X40

to

#### **Federal Communications Commission**

Part 15.121, Confidentiality

Date of Report: September 17, 2003

#### On the Behalf of the Applicant:

Vertex Standard Co., Ltd.

At the Request of: P.O. UPS 09/03/2003

> Vertex Standard USA Inc. 10900 Walker Street Cypress, CA 90630

Attention of: Mikio Maruya, Executive Vice President

(800) 255-9237; FAX: (800) 477-9237

(714) 827-7600; FAX: -8100 m.maruya@vxstdusa.com

Supervised By:

Morton Flom, P. Eng.

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Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a) Test Report

b) Laboratory: M. Flom Associates, Inc.

(FCC: 31040/SIT) 3356 N. San Marcos Place, Suite 107

(Canada: IC 2044) Chandler, AZ 85225

c) Report Number: d0390075

d) Client: Vertex Standard USA Inc.

10900 Walker Street Cypress, CA 90630

e) Identification: FT-7800R

FCC ID: K6620165X40

Description: Amateur Transmitter with Scanning Receiver

f) EUT Condition: Not required unless specified in individual tests.

g) Report Date: September 17, 2003 EUT Received: September 3, 2003

h, j, k): As indicated in individual tests.

i) Sampling method: No sampling procedure used.

I) Uncertainty: In accordance with MFA internal quality manual.

m) Supervised by:

Morton Flom, P. Eng.

n) Results: The results presented in this report relate only to the item tested.

o) Reproduction: This report must not be reproduced, except in full, without written

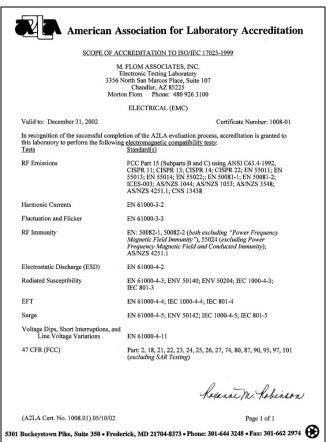
permission from this laboratory.

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M. Flom Associates, Inc. is accredited by the American Association for Laboratory Association (A2LA) as shown in the scope below.





"This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report."

Should this report contain any data for tests for which we are not accredited, or which have been undertaken by a subcontractor that is not A2LA accredited, such data would not covered by this laboratory's A2LA accreditation.

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#### **General Information**

#### Part 2.948:

## (a)(b) **Description Of Measurement Facilities**:

File: 31040/SIT

A description of the measurement facilities was filed with the Commission and was found to be in compliance with the requirements of Section 2.948, by letter dated March 5, 2003. All pertinent changes will be reported to the Commission by up-date prior to March 2006.

## (b)(4) **Supporting Structures**:

Sketch - Attached Exhibits

#### (b)(5)(6) **Test Instrumentation**:

List - See Exhibits

#### 2.925: Identification of an Authorized Device:

Drawing - See Exhibits

Location of Label - See Photos

## Name and Address of Applicant:

Vertex Standard Co., Ltd. 4-8-8 Nakameguro, Meguro-Ku Tokyo 153-8644 Japan Page Number 4 of 14. **2.911**: 2.1033(b)(6)

2.1033(3)(0)	
	Technical Report
	Manufacturer:
	Vertex Standard Co., Ltd. 4-8-8 Nakameguro, Meguro-Ku Tokyo 153-8644 Japan
	FCC ID:
	K6620165X40
	Model Number:
	FT-7800R
	Photographs:
	See List of Exhibits
	DUT Description:
	This unit Passes
15.31:	Measurement Standard & Procedure:
	IEEE Standard 187 was used as a guide. FCC Measurement Procedure MP-1  X ANSI 63.4 (1992/2000) "Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz."

## **Expository Statement**

1	Number of Dands	 _
Ι.	Number of Bands	 J

- 2. Number of Channels = 1
- 3. Tuning Range, MHz = 108 to 200 200 to 300 300 to 400 400 to 520 700 to 1000
- 4. Oscillator Range, MHz = 153 to 245 155 to 255 345 to 445 355 to 475 655 to 955
- 5. I.F., MHz = 45.05
- 6. Block Diagram = Attached
- 7. For cellular receiver only, the radio transceiver meets the requirements of FCC Bulletin OET 53 ("Cellular System Mobile Stations-Land-System Compatibility Specification."). See attached affidavit.

## **15.203**: Antenna Requirement:

	The antenna is permanently attached to the EUT
	The antenna uses a unique coupling
	The EUT must be professionally installed
Х	The antenna requirement does not apply

Supervised By:

Morton Flom, P. Eng.

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**Name of Test**: Receiver Spurious Emissions (Radiated)

Specification:

15.109: Radiated Interference Limits

15.33: Frequency Range of Radiated Measurements 80.217: Suppression of Interference Aboard Ships

**Guide**: See measurement procedure below

**Test Conditions**: Standard Temperature & Humidity

**Test Equipment**: As per attached page

Search Antennas:

25 MHz - 300 MHz: Emco 3109 Biconical 200 MHz - 1 GHz: Aprel 2001 Log Periodic

1 GHz - 18 GHz: Emco 3115 Horn

10 GHz - 40 GHz: Emco 3116 Horn with HP11970A Mixer

#### **Measurement Procedure**

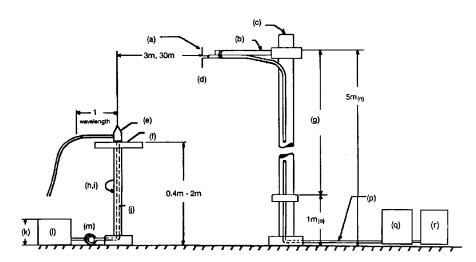
- 1. At first, bench tests were performed to locate the spurious emissions at the antenna terminals.
- 2. In the field, tests were conducted over the range shown, The test sample was set up on a wooden turntable above ground, and at a distance of three meters from the antenna connected to the Spectrum Analyzer.
- 3. In order to obtain the maximum response at each frequency, the turntable was rotated, and the search antenna was raised and lowered. The EUT was also adjusted for maximum response. Tests were conducted in Horizontal & Vertical polarization modes.
- 4. The field strength was calculated from:

E 
$$\mu$$
V/m @ 3 m = Log<sub>10</sub><sup>-1</sup>(dB $\mu$ V + A.F. + C.L.)  
20

5. Measurement Results: Attached for "Worst Case" conditions.

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#### **Radiated Test Setup**



#### NOTES:

- (a)Search Antenna Rotatable on boom
- (b) Non-metallic boom
- (c) Non-metallic mast
- (d) Adjustable horizontally
- (e) Equipment Under Test
- (f) Turntable
- (g) Boom adjustable in height.
- (h) External control cables routed horizontally at least one wavelength.
- (i) Rotatable

- (j) Cables routed through hollow turntable center
- (k) 30 cm or less
- (I) External power source
- (m) 10 cm diameter coil of excess cable
- (n) 25 cm (V), 1 m-7 m (V, H)
- (o) 25 cm from bottom end of 'V', 1m normally
- (p) Calibrated Cable at least 10m in length
- (q) Amplifier (optional)
- (r) Spectrum Analyzer

Asset	Description	s/n	Cycle	Last Cal
(as ap	oplicable)		Per ANSI Cé	33.4-1992/2000 Draft, 10.1.4
Transduc	er			
i0008	8 EMCO 3109-B 25MHz-300MHz	2336	12 mo.	Sep-02
i0008	9 Aprel 2001 200MHz-1GHz	001500	12 mo.	Sep-02
i0010	3 EMCO 3115 1GHz-18GHz	9208-3925	12 mo.	Sep-02
i0006	5 EMCO 3301-B Active Monopole	2635	12 mo.	Sep-02
<b>Amplifier</b>				
i0002	8 HP 8449A	2749A00121	12 mo.	Mar-03
Spectrum	Analyzer			
i00029	9 HP 8563E	3213A00104	12 mo.	Jan-03
i0003	3 HP 85462A	3625A00357	12 mo.	Jan-03
i0004	8 HP 8566B	2511AD1467	6 mo.	Jul-03
Miscellan	eous			
Micro	phone <u>Yes</u>			

Whip

N/A

Antenna

All Ports Terminated

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**Test Setup**: Radiated Emissions







Page Number 9 of 14.

Name of Test: Receiver Spurious Emissions (Radiated)

### **Measurement Details**

Site Reference = 31040/SIT

Spectrum Searched  $= 0 \text{ to } 10 \text{ x } F_R$ 

Worst Case = V

Limits = 15.109(a) (Attached)

All Other Emissions = 20 dB or More Below Limit

#### Tests were conducted with:

a. All controls and switches operated.

Half-wave dipole antenna or manufacturer/applicant supplied antenna. b.

# **Sample Calculation:**

Emission Frequency, MHz = 354.949600Level =  $Log_{10}^{-1}$  ( 12.83 + 23.97 )

Level, µV/m @ 3m = 69.18

Measurement Results = Attached

Note: Worst Case of Scan and Non-Scan Modes Reported.

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Name of Test: Receiver Spurious Emissions (Radiated)

Rule 15.109(a) Limits:

Frequency, MHz	Field Strength μV/m	Distance, m
30 - 88	μν/π 100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

g0390085: 2003-Sep-03 Wed 14:36:00

Frequency	Level, @	m	C.F.,	μV/m	@ m
Emission, MHz	dBuV		dB		
153.050000	22.83	3	17.4	102.68	3
199.049833	17.73	3	19.25	70.63	3
245.050000	16.07	3	21.21	73.11	3
306.098333	15.73	3	20.66	65.99	3
398.099998	7.23	3	26.21	46.99	3
459.146667	12.57	3	26.39	88.72	3
490.103333	13.07	3	26.39	93.97	3
597.149997	6.9	3	30.08	70.63	3
612.196667	7.07	3	30.3	73.88	3
735.148333	6.23	3	31.72	78.98	3
765.246667	2.07	3	32.16	51.46	3
796.199996	3.07	3	32.56	60.46	3
980.198333	5.07	3	40.37	187.07	3
995.249995	2.57	3	41.69	163.31	3
1225.250000	7.4	3	37.53	176.4	3
	Emission, MHz  153.050000 199.049833 245.050000 306.098333 398.099998 459.146667 490.103333 597.149997 612.196667 735.148333 765.246667 796.199996 980.198333 995.249995	Emission, MHz         dBuV           153.050000         22.83           199.049833         17.73           245.050000         16.07           306.098333         15.73           398.099998         7.23           459.146667         12.57           490.103333         13.07           597.149997         6.9           612.196667         7.07           735.148333         6.23           765.246667         2.07           796.199996         3.07           980.198333         5.07           995.249995         2.57	Emission, MHz         dBuV           153.050000         22.83         3           199.049833         17.73         3           245.050000         16.07         3           306.098333         15.73         3           398.099998         7.23         3           459.146667         12.57         3           490.103333         13.07         3           597.149997         6.9         3           612.196667         7.07         3           735.148333         6.23         3           765.246667         2.07         3           796.199996         3.07         3           980.198333         5.07         3           995.249995         2.57         3	Emission, MHz         dBuV         dB           153.050000         22.83         3         17.4           199.049833         17.73         3         19.25           245.050000         16.07         3         21.21           306.098333         15.73         3         20.66           398.099998         7.23         3         26.21           459.146667         12.57         3         26.39           490.103333         13.07         3         26.39           597.149997         6.9         3         30.08           612.196667         7.07         3         30.3           735.148333         6.23         3         31.72           765.246667         2.07         3         32.16           796.199996         3.07         3         32.56           980.198333         5.07         3         40.37           995.249995         2.57         3         41.69	Emission, MHz         dBuV         dB           153.050000         22.83         3         17.4         102.68           199.049833         17.73         3         19.25         70.63           245.050000         16.07         3         21.21         73.11           306.098333         15.73         3         20.66         65.99           398.099998         7.23         3         26.21         46.99           459.146667         12.57         3         26.39         88.72           490.103333         13.07         3         26.39         93.97           597.149997         6.9         3         30.08         70.63           612.196667         7.07         3         30.3         73.88           735.148333         6.23         3         31.72         78.98           765.246667         2.07         3         32.16         51.46           796.199996         3.07         3         32.56         60.46           980.198333         5.07         3         40.37         187.07           995.249995         2.57         3         41.69         163.31

g0390086: 2003-Sep-03 Wed 15:47:00

9000000 = 000		•				
Frequenc	y Frequency	Level,	@ m	C.F.,	μV/m	@ m
Tuned, MH	z Emission, MHz	dBuV		dB		
200.000000	154.950000	3.73	3	17.44	11.44	3
250.000000	204.950000	5.07	3	19.53	16.98	3
299.987500	254.937200	14.57	3	22.57	71.94	3
200.000000	309.900000	4.67	3	20.93	19.05	3
250.000000	409.900000	9.67	3	26.31	62.95	3
200.000000	464.850000	12.17	3	26.38	84.63	3
299.987500	509.875000	6.17	3	26.75	44.26	3
250.000000	614.850000	9.5	3	30.31	97.84	3
200.000000	619.800000	9.33	3	30.35	96.38	3
299.987500	764.812500	-1.33	3	32.15	34.75	3
200.000000	774.750000	-1.33	3	32.28	35.28	3
250.000000	819.800000	-7.5	3	32.54	17.86	3
299.987500	1019.750000	4	3	34.7	86.1	3
250.000000	1024.750000	2.83	3	34.78	75.95	3
299.987500	1274.687500	0.83	3	38.12	88.61	3

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Name of Test: Receiver Spurious Emissions (Radiated)

g0390087: 2003-Sep-04 Thu 09:12:00

Frequency	Frequency	Level, @	m	C.F.,	μV/m	@ m
 Tuned, MHz	Emission, MHz	dBuV		dB		
300.000000	345.050000	19.67	3	23.35	141.58	3
350.000000	395.050000	9.83	3	26.07	62.37	3
399.987500	445.037333	7.5	3	26.37	49.37	3
300.000000	690.100000	4.5	3	30.99	59.5	3
350.000000	790.100000	7	3	32.48	94.19	3
399.987500	890.074533	5.33	3	32.65	79.25	3
300.000000	1035.150000	0.17	3	34.93	56.89	3
350.000000	1185.150000	0	3	37.02	70.96	3
399.987500	1335.112033	-1.33	3	38.83	74.99	3
300.000000	1380.200000	0.17	3	39.33	94.41	3
350.000000	1580.200000	1.33	3	41.03	131.22	3
300.000000	1725.250000	1.17	3	41.75	139.96	3
399.987500	1780.149533	2.5	3	42.01	168.07	3
350.000000	1975.250000	-1.33	3	44.4	142.4	3
399.987500	2225.187500	0.33	3	46.72	225.16	3

g0390088: 2003-Sep-04 Thu 10:12:00

Frequency	Frequency	Level, @	m	C.F.,	μV/m	@ m
Tuned, MHz	Emission, MHz	dBuV		dB		
400.000000	354.949600	12.83	3	23.97	69.18	3
460.000000	414.949750	11.67	3	26.33	79.43	3
520.000000	474.949433	7.83	3	26.39	51.4	3
400.000000	709.900500	5.33	3	31.27	67.61	3
460.000000	829.900042	6.67	3	32.51	90.99	3
520.000000	949.899433	-5.5	3	37.62	40.36	3
400.000000	1064.849267	10.17	3	35.37	189.23	3
460.000000	1244.849233	5.5	3	37.76	145.55	3
400.000000	1419.799267	-0.33	3	39.76	93.65	3
520.000000	1424.850000	-2.33	3	39.81	74.82	3
460.000000	1659.799233	1.17	3	41.43	134.9	3
400.000000	1774.749267	-0.83	3	41.99	114.29	3
520.000000	1899.800000	-3	3	43.43	105.08	3
460.000000	2074.750000	-2.5	3	45.4	139.64	3
520.000000	2374.750000	-0.67	3	47.96	231.47	3

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Name of Test: Receiver Spurious Emissions (Radiated)

g0390089: 2003-Sep-04 Thu 11:08:00

Frequency	Level,	@ m	C.F.,	μV/m	@ m
Emission, MHz	dBuV	-	dB	. ,	
654.950000	7.2	3	30.6	77	3
804.950000	-1.0	3	32.6	38	3
954.937500	1.0	3	38.1	90	3
1309.900000	-2.2	3	38.5	66	3
1609.900000	-0.3	3	41.2	110	3
1909.875000	-4.0	3	43.6	95	3
1964.850000	-3.8	3	44.3	105	3
2414.850000	-0.8	3	48.3	236	3
2619.800000	-4.8	3	49.9	178	3
2864.812500	-13.0	3	51.6	86	3
3219.788250	14.2	3	4.5	9	3
3274.750000	16.8	3	4.6	12	3
3819.753000	12.5	3	6.0	8	3
4024.738250	14.5	3	6.5	11	3
4774.691250	13.3	3	8.1	12	3
	654.950000 804.950000 954.937500 1309.900000 1609.900000 1964.850000 2414.850000 2619.800000 2864.812500 3219.788250 3274.750000 4024.738250	Emission, MHz         dBuV           654.950000         7.2           804.950000         -1.0           954.937500         1.0           1309.900000         -2.2           1609.900000         -0.3           1909.875000         -4.0           1964.850000         -3.8           2414.850000         -0.8           2619.800000         -4.8           2864.812500         -13.0           3219.788250         14.2           3274.750000         16.8           3819.753000         12.5           4024.738250         14.5	Emission, MHz         dBuV           654.950000         7.2         3           804.950000         -1.0         3           954.937500         1.0         3           1309.900000         -2.2         3           1609.900000         -0.3         3           1909.875000         -4.0         3           1964.850000         -3.8         3           2414.850000         -0.8         3           2619.800000         -4.8         3           2864.812500         -13.0         3           3219.788250         14.2         3           3274.750000         16.8         3           3819.753000         12.5         3           4024.738250         14.5         3	Emission, MHz         dBuV         dB           654.950000         7.2         3         30.6           804.950000         -1.0         3         32.6           954.937500         1.0         3         38.1           1309.900000         -2.2         3         38.5           1609.900000         -0.3         3         41.2           1909.875000         -4.0         3         43.6           1964.850000         -3.8         3         44.3           2414.850000         -0.8         3         48.3           2619.800000         -4.8         3         49.9           2864.812500         -13.0         3         51.6           3219.788250         14.2         3         4.5           3274.750000         16.8         3         4.6           3819.753000         12.5         3         6.0           4024.738250         14.5         3         6.5	Emission, MHz         dBuV         dB           654.950000         7.2         3         30.6         77           804.950000         -1.0         3         32.6         38           954.937500         1.0         3         38.1         90           1309.900000         -2.2         3         38.5         66           1609.900000         -0.3         3         41.2         110           1909.875000         -4.0         3         43.6         95           1964.850000         -3.8         3         44.3         105           2414.850000         -0.8         3         48.3         236           2619.800000         -4.8         3         49.9         178           2864.812500         -13.0         3         51.6         86           3219.788250         14.2         3         4.5         9           3274.750000         16.8         3         4.6         12           3819.753000         12.5         3         6.0         8           4024.738250         14.5         3         6.5         11

All other emissions in the required measurement range were more that 20 dB below the required limits.

Performed By:

David Lee

Page Number 13 of 14.

Name of Test: Scanning Receivers Cellular Band Rejection

**Specification**: FCC: 47 CFR 15.121(b)

**Test Equipment**: As per attached page

**Guide**: **47 CFR 15.121(b):** Except as provided in paragraph (c) of this

section, scanning receivers shall reject any signals from Cellular Radiotelephone Service frequency bands that are 38 dB or higher based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any

interference that may be present.

**Warning**: Modification of this device to receive cellular radiotelephone service

signals is prohibited under FCC rules and federal law.

#### **Measurement Procedure**

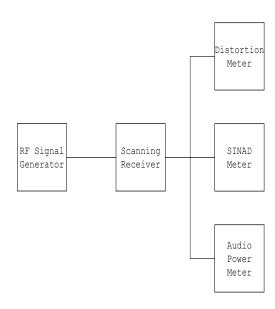
1. Equipment was connected as illustrated in the block diagram.

- 2. A standard signal was applied to the receiver input terminals.
- 3. Receiver output audio output was adjusted for rated output and with distortion no greater than 10%.
- 4. The RF Signal generator was adjusted to produce 12dB SINAD without the audio output power dropping by more than 3dB.
- 5. This was repeated at three frequencies across all bands to establish a reference sensitivity level. The reference sensitivity taken was the lowest, or worst-case sensitivity for all of the bands.
- 6. The output of the signal generator was then adjusted to a level of +60dB above the reference level sensitivity established in step 5 and set to the first of three frequencies in the cellular subscriber transmit band.
- 7. Receiver squelch threshold, the signal level required to open the squelch, should be set to open no greater than +20dB above the reference sensitivity.
- 8. The receiver was then put in the scanning mode and allowed to scan across it's complete receive range.
- 9. If the receiver unsquelched or stopped on any frequency, the displayed frequency was recorded. The signal generator was then adjusted in output level until a 12dB SINAD from the receiver was produced. The signal generator level associated with this response was also noted.
- 10. This procedure was repeated for three frequencies in the cellular base station transmit band.
- 11. The difference in between the signal generator output for any response recorded and the reference sensitivity is the rejection ratio.

Page Number

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## **Scanning Receiver:**



Reference Level Sensitivity measured in step 5 = -110 dBm

RF Signal Generator,	Displayed Frequency,	Level for 12 dB	Rejection, dB
MHz	MHz	SINAD, dBm	
824.000	None	-72.0	>38
836.500	None	-72.0	>38
849.000	None	-72.0	>38
869.000	None	-72.0	>38
881.500	None	-72.0	>38
894.000	None	-72.0	>38

Performed By:

END OF TEST REPORT

David Lee

### The applicant has been cautioned as to the following:

#### 15.21 Information to User.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### 15.27(a) Special Accessories.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

### **Labeling of Scanning Receivers**

'

## Rule 15.19(a)(3) 2-Part Statement: Conspicuous Location on Unit

'This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions (1) This device may not caus4e harmful interference; and (2) this device must accept any interference including interference that may cause undesired operation.'

## **Rule Part 15.121(f)**: Permanently Affixed to Unit Must Be on Device:

'WARNING: Modification of this device to receive cellular radiotelephone service signals is prohibited under FCC Rules and Federal Law.'

#### Rule 15.21: Can Be in Manual. Show What Page and Extract It

'Information to User: The User's Manual or Instruction Manual for an intentional or unintentional radiator shall caution the User that changes or modifications not expressly approved by the party responsible for compliance could void the User's authority to operate the equipment.'

"Permanently affixed" means that the label is etched, engrave, stamped, silkscreened, indelibly printed or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal plastic or other material fastened to the equipment by welding, riveting, or permanent adhesive. The label shall be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable. The label shall not be a stick-on, paper label.

# **Statement of Compliance**

# This is to certify:

That, on the basis of the measurements made, the equipment tested is capable of complying with the requirements of

FCC Rule Part 15, Subpart B x

FCC Rule Part 15, Subpart C\_\_\_\_

Using ANSI C63.4-1992/2000 draft in effect as of this date, under normal operation, with the usual maintenance.

That the data contained herein is a summary (worst case) of that obtained on several randomly-selected production samples.

That the equipment meets or exceeds the requirements of Part 15.

#### **List of Exhibits**

(FCC **Certification** (Receivers) - Revised 9/28/98)

Applicant: Vertex Standard Co., Ltd. **Equipment:** FT-7800R K6620165X40 By Applicant: If Applicable: Subsection 2.1033 1. Letter Of Authorization Х 2. Attestations Χ 3. Identification Label Drawing x Label x Location of Label x Compliance Statement x Location of Compliance Statement 4. Documentation: 2.1033(b) (3) User Manual Х (4) Operational Description Х (5) Block Diagram Х (5) Schematic Diagram Χ (7) Photographs Х 5. Request for Confidentiality Χ

# By M.F.A. Inc.

A. Statement of Compliance