FCC ID: K66FT-89 M. Flom Associates, Inc. - Global Compliance Center 3356 North San Marcos Place Suite 107 Of the State M www.mflom.com general@mflom.com (480) 926-3100, FAX: 926-3598

CERTIFICATION

### of

RECEIVER MODEL: FT-897

FCC ID: K66FT-897

to

FEDERAL COMMUNICATIONS COMMISSION

Part 15(B) (New)

DATE OF REPORT: May 1, 2002

ON THE BEHALF OF THE APPLICANT:

Vertex Standard Co., Ltd.

AT THE REQUEST OF:

P.O. UPS 4/24/2002

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

U. Shull P. Eng

Morton Flom, P. Eng.

SUPERVISED BY:

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# RULE DESCRIPTION

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15.109	Receiver Spurious Emissions (Radiated)	6
15.121(b)	Scanning Receiver	11
15.107	A/C Powerline Conducted Emissions	13

PAGE NO.	1 of 19.
Required information	per ISO/IEC Guide 25-1990, paragraph 13.2:
a)	TEST REPORT
b) Laboratory: (FCC: 31040/SIT) (Canada: IC 2044)	M. Flom Associates, Inc. 3356 N. San Marcos Place, Suite 107 Chandler, AZ 85225
c) Report Number:	d0250001
d) Client:	Vertex Standard USA Inc. 10900 Walker Street Cypress, CA 90630
e) Identification: Description:	FT-897 FCC ID: K66FT-897 Scanning Receiver
f) EUT Condition:	Not required unless specified in individual tests.
g) Report Date: EUT Received:	May 1, 2002 April 24, 2002
h, j, k):	As indicated in individual tests.

- i) Sampling method: No sampling procedure used.
- 1) Uncertainty: In accordance with MFA internal quality manual.
- m) Supervised by:

U. Thuch P. Eng

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.

	American Association for Laboratory Accreditation
	SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999
THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION	M. FLOM ASSOCIATES, INC. Electronic Testing Laboratory 3356 North San Marcos Place, Suite 107 Chandler, AZ 85225 Morton Flom Phone: 480 926 3100
ACCREDITED LABORATORY	ELECTRICAL (EMC)
A2LA has accredited	Valid 6: December 31, 2002 Certificate Number: 1008-01 In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this lobgering to perform the following adoption manufalling in process, accreditation is granted to
M. FLOM ASSOCIATES, INC.	Tests Standard(s)
Chandler, AZ	RF Emissions FCC Part 15 (Subparts B and C) using ANSI C63.4-1992; CISPR 11; CISPR 13; CISPR 14; CISPR 22; EN 55011; EN 55012; EN 55014; EN 5502; EN 550141; EN 55012; ICES-003; ASINCS 1054; ASINCS 1053; ASINCS 1504;
	AS/NZS 4251.1; CNS 13438 Harmonic Currents EN 61000-3-2
Electrical (EMC) Testing	Fluctuation and Flicker EN 61000-3-3
The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration Laboratories" and any additional program requirements in the identified field of testing. Testing and calibration laborations that tomphy with this International Standard also	RF Immunity EN: 50082-1, 50082-2 (both excluding "Power Frequency Magnetic Field Immunity" and "Voltage Dips, Short Interruptions, and Line Voltage Variations"); AS/NZS 4251.1
operate in accordance with ISO 9001 or ISO 9002.	Radiated Susceptibility EN 61000-4-3; ENV 50140; ENV 50204; IEC 1000-4-3; IEC 801-3
Presented this 2 <sup>nd</sup> day of March, 2001.	EFT EN 61000-4-4; IEC 1000-4-4; IEC 801-4
$D_{i} = O_{i}$	Surge EN 61000-4-5; ENV 50142; IEC 1000-4-5; IEC 801-5
President For the Accreditation Council Certificate Number 1008.01 Valid to December 31, 2002	47 CFR (FCC) 2, 21, 22, 23, 24, 74, 80, 87, 90, 95, 97
For tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical (EMC) Scope of Accreditation	Peter Alnyen
	5301 Buckeystown Pike, Suite 350 • Frederick, MD 21704-8373 • Phone: 301-644 3248 • Fax: 301-662 2974

"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.

## 3 of 19. GENERAL INFORMATION

#### Part 2.948:

#### (a)(b) <u>DESCRIPTION OF MEASUREMENT FACILITIES</u>: 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 13, 2000. All pertinent changes will be reported to the Commission by up-date prior to March 2003.

(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 <u>PAGE NO.</u> 2.911: 2.1033(b)(6) 4 of 19.

#### TECHNICAL REPORT

#### MANUFACTURER:

Vertex Standard Co., Ltd. 4-8-8 Nakameguro, Meguro-Ku Tokyo 153-8644 Japan

FCC ID:

K66FT-897

#### MODEL NO:

FT-897

#### 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."

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#### EXPOSITORY STATEMENT

1.	NUMBER OF BANDS	=	4
2.	NUMBER OF CHANNELS	=	per manual
3.	TUNING RANGE, MHz	=	0.1 to 56.0 76 to 108 118 to 164 420 to 470
4.	OSCILLATOR RANGE, MHz	=	68.4 to 124.32 65.3 to 118.7 186.33 to 232.33 488.33 to 513.33
5.	I.F., MHz	=	68.33

- 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
- x The antenna requirement does not apply

11. Thuch P. Eng

Morton Flom, P. Eng.

SUPERVISED BY:

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NAME OF TEST: Receiver Spurious Emissions (Radiated)

SPECIFICATION:15.109:Radiated Interference Limits15.33:Frequency Range of Radiated Measurements80.217:Suppression of Interference Aboard Ships

GUIDE: See measurement procedure below

TEST CONDITIONS: Standard Temperature & Humidity

TEST EQUIPMENT: As per attached page

SEARCH ANTENNAS:

100	Hz	-	50	MHz:	Emco 3301B Active Rod
10	kHz	-	32	MHz:	Singer 94593-1 Loop
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 tot he 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:

$$E \mu V/m @ 3 m = Log_{10}^{-1}(\frac{dB\mu V + A.F. + C.L.}{20})$$

5. MEASUREMENT RESULTS: Attached for "Worst Case" conditions.

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# RADIATED TEST SETUP

	(c) —				
(a) (b)	<u>``</u> _				
(d) (d) (e) (f) (h,i) (k) (i) (i) (i) (i) (i) (i) (i) (i) (i) (i		(g) (g) 1m(a) (p)	(q)	(r)	
<pre>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</pre>	(j)C t(k)3 (l)E (m)1 c (n)2 (o)2 (p)C i (q)A (r)S	ables routed urntable cer 0 cm or less xternal powe 0 cm diamete able 5 cm (V), 1 5 cm from bo m normally alibrated Ca n length mplifier (or pectrum Anal	l th iter er s m-7 otto able otic	cource coil of m (V, m end e at le onal) er	hollow excess H) of 'V', east 10m
Asset Description (as applicable)		s/n	Cyc	cle ANSI C63.4-1993	Last Cal
TRANSDUCER   i00088 EMCO 3109-B 25MHz-300MHz   i00089 Aprel 2001 200MHz-1GHz   i00103 EMCO 3115 1GHz-18GHz   i00065 EMCO 3301-B Active Monop	pole	2336 001500 9208-3925 2635	12 12 12 12	mo. mo. mo.	Sep-01 Sep-01 Sep-01 Sep-01
AMPLIFIER i00028 HP 8449A SPECTRUM ANALYZER		2749A00121	12	mo.	Mar-02
i00029 HP 8563E i00033 HP 85462A i00048 HP 8566B		3213A00104 3625A00357 2511AD1467	12 12 6	mo. mo. mo.	Jan-02 Jan-02 Jan-02
MISCELLANEOUS Microphone Antenna All Ports Terminated					

# 8 of 19.

TEST SETUP: Radiated Emissions





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NAME OF TEST: Receiver Spurious Emissions (Radiated)

#### MEASUREMENT DETAILS

SITE REFERENCE	= 31040/SIT
SPECTRUM SEARCHED	= 0 to 10 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.
- b. Half-wave dipole antenna or manufacturer/applicant supplied antenna.

#### SAMPLE CALCULATION:

EMISSION FREQUENCY, MHz = 0.100000 LEVEL =  $\log_{10}^{-1} (21.37 + 55.2)$ 20 LEVEL,  $\mu V/m @ 0m = 6737.52$ 

MEASUREMENT RESULTS = ATTACHED

NOTE: WORST CASE OF SCAN AND NON-SCAN MODES REPORTED.

# <u>PAGE NO.</u> 10 of 19.

<u>NAME OF TEST</u>: Receiver Spurious Emissions (Radiated)

RULE 15.109(a)	LIMITS:	FREQUENCY,	FIELD STRENGTH DISTANC		ICE,	
		MHz	µV/m		m	
		30 - 88		100	3	
		88 - 216		150	3	
		216 - 960		200	3	
		Above 960		500	3	
g0240067: 2002	-Apr-25 Thu	16:13:00				
FREQUENCY	FREQUENC	Y LEVEL,	@ m	C.F., dB	µV/m	@ m
TUNED, MHz	EMISSION, I	MHz dBuV				
0.100000	68.43090	00 16.3	3	12.71	28.22	3
28.050000	96.38000	00 17.32	3	13.54	34.91	3
56.000000	124.33000	00 10.59	3	16.5	22.62	3
28.050000	192.76000	00 12.73	3	18.93	38.28	3
56.000000	248.61250	00 12.11	3	21.35	47.1	3
g0240065: 2002	-Apr-25 Thu	14:46:00				
FREQUENCY	FREOUENC	Y LEVEL,	@ m	C.F., dB	uV/m	@ m
TUNED, MHz	EMISSION, I	MHz dBuV			•	
76.000000	65.29800	00 14.09	3	13.35	23.55	3
92.00000	102.69800	00 16.87	3	14.48	36.94	3
108.000000	118.69800	00 7.92	3	16.02	15.74	3
76.000000	130.69000	00 11.2	3	16.71	24.86	3
92.00000	205.43300	00 8.54	3	19.55	25.38	3
108.000000	237.45800	00 12.22	3	20.91	45.34	3
g0240066: 2002	-Apr-25 Thu	15:28:00				
FREQUENCY	FREQUENC	Y LEVEL,	@ m	C.F., dB	µV/m	@ m
TUNED, MHz	EMISSION, I	MHz dBuV				
118.000000	186.32950	9.85	3	18.58	26.39	3
141.000000	209.32950	00 11.22	3	19.73	35.28	3
164.000000	232.32950	00 10.99	3	20.7	38.41	3
118.000000	372.66000	00 12.86	3	24.94	77.62	3
141.000000	418.65250	00 12.03	3	26.33	82.79	3
164.000000	464.6560	00 13.57	3	26.38	99.43	3
a0240064: 2002	$-\lambda nr - 25$ Thu	13.07.00				
FRECIIENCV	FPFOIIFNC		@ m		U177 / m	@ m
TUNED, MHZ	EMISSION, I	MHz dBuV	e ili	C.F., UB	$\mu v / m$	e iii
420,00000	488.33000	00 11.18	3	26.4	75.68	3
445,000000	513,3430	00 11.62	3	26.88	84.14	3
470 000000	538 34300	00 11 29	3	27 74	89 43	3
420 000000	976 2100	00 12.83	2	40 01	438 53	2
445 000000	1026 21000	00 12.05	2	36 16	266 69	2
445 000000	1076 64800		2	36 82	229 35	2
All other price	giong in th	e required mea	GIITOM	ent range	Were more	that
20 de holow +h	e realized .	limita	Surein	chic range	WCIE MOIE	ciiac
ZU UP DETOW (11	e required .	LIULLS.				



PERFORMED BY:

Doug Noble, B.A.S. E.E.T.

## PAGE NO. 11 of 19.

NAME OF TEST: Scanning Receivers Cellular Band Rejection

SPECIFICATION: FCC: 47 CFR 15.121(b)

TEST EQUIPMENT: As per attached page

<u>GUIDE</u>: <u>47 CFR 15.121(b)</u>: 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.

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#### SCANNING RECEIVER:



Reference Level Sensitivity measured in step 5 =

Frequency of EUT, MHz	Displayed Frequency, MHz	Level for 12 dB SINAD, dBm	Rejection, dB
0.100 - 056	848.97 836.4 824.04	< -113	< -130
76 - 108	848.97 836.4 824.04	< -113	< -130
118 - 164	848.97 836.4 824.04	< -113	< -130
420 - 470	848.97 836.4 824.04	< -113	< -130

NOTE: 1) System Sensitivity = -130 dbm

2) No spurious response detectable within these frequency ranges.

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PAGE NO. 13 of 19.

NAME OF TEST: A/C Powerline Conducted Emissions

SPECIFICATION: FCC: 47 CFR 15.107

GUIDE: IEEE Standard 213

TEST CONDITIONS: S. T. & H.

TEST EQUIPMENT: As per attached page

### MEASUREMENT PROCEDURE

- 1. A test sample was connected to the Public Utility lines through a LISN Ailtech Model 94641-1 (50  $\mu \text{H}).$
- 2. A reference level of 250  $\mu V$  was set on the Spectrum Analyzer. The spectrum was searched over the range of 450 kHz to 30 MHz.
- 3. All other emissions were 20 dB or more below limit.
- 4. <u>x</u> The test sample used a charger. \_\_\_\_\_ The test sample does not use a charger.
- 5. Measurement Results: Attached.

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TEST SETUP: A/C Powerline Conducted Emissions





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NAME OF TEST: A/C Powerline Conducted Emissions g0240068: 2002-Apr-30 Tue 11:55:00 STATE: 0:General

 $\square$ 

ACTV DET: Meas det: Log R0F 75.0 db,v	: POAK : POAK QP AVG MKR 13.97 MHz 31.73 dBµV
ATN 10 dB	
SC FC	in which
	A. Mr. And
START 450 kHz	STOP 30.00 MHz
KI #TF RM A'N KHZ HAP AM AN KHZ	SML C.JP SEC
NEUTRAL SIDE, GROUND	ED

Doug Noble, B.A.S. E.E.T.

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NAME OF TEST: A/C Powerline Conducted Emissions g0240069: 2002-Apr-30 Tue 11:57:00 STATE: 0:General

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LINE SIDE, GROUNDED

Doug Noble, B.A.S. E.E.T.

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NAME OF TEST: A/C Powerline Conducted Emissions g0240070: 2002-Apr-30 Tue 12:00:00 STATE: 0:General

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Doug Noble, B.A.S. E.E.T.

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NAME OF TEST: A/C Powerline Conducted Emissions g0240071: 2002-Apr-30 Tue 12:02:00 STATE: 0:General

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NEUTRAL SIDE, GROUNDED

Doug Noble, B.A.S. E.E.T.

PERFORMED BY: END OF TEST REPORT

#### 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.

#### LABELLING OF SCANNING RECEIVERS

Scanning receivers shall have a label permanently affixed to the product, and this label shall be readily visible to the purchaser at the time of purchase. The label shall read as follows:

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

"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.

1

# 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 \_\_\_\_

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-897 K66FT-897

#### BY APPLICANT:

- IF APPLICABLE: Subsection 2.1033
  - 1. LETTER OF AUTHORIZATION
  - 2. ATTESTATION
  - 3. IDENTIFICATION LABEL DRAWING \_\_\_\_\_LABEL
    - LOCATION OF LABEL
    - COMPLIANCE STATEMENT
    - LOCATION OF COMPLIANCE STATEMENT
  - 4. DOCUMENTATION: 2.1033(b)
    - (3) USER MANUAL
    - (4) OPERATIONAL DESCRIPTION
    - (5) BLOCK DIAGRAM
    - (5) SCHEMATIC DIAGRAM
    - (7) PHOTOGRAPHS

BY M.F.A. INC.

- A. STATEMENT OF COMPLIANCE
- B. STATEMENT OF QUALIFICATIONS