



M. Flom Associates, Inc. - Global Compliance Center

3356 North San Marcos Place, Suite 107, Chandler, Arizona 85225-7176

www.mflom.com general@mflom.com (480) 926-3100, FAX: 926-3598

Date: June 15, 2000

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Yaesu Musen Co., Ltd.
Equipment: VR-5000
FCC ID: K66VR-5000
FCC Rules: 15.109, 15.121

Gentlemen:

On behalf of the Applicant, enclosed please find Application Form 731, Engineering Test Report and all pertinent documentation, the whole for approval of the referenced equipment as shown.

Filing fees are attached.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'M. Flom P. Eng.', with a horizontal line drawn underneath.

Morton Flom, P. Eng.

enclosure(s)
cc: Applicant
MF/cvr



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C E R T I F I C A T I O N

of

RECEIVER MODEL: VR-5000

FCC ID: K66VR-5000

to

FEDERAL COMMUNICATIONS COMMISSION

Part 15(B)
(New)

DATE OF REPORT: June 15, 2000

ON THE BEHALF OF THE APPLICANT:

Yaesu Musen Co., Ltd.

AT THE REQUEST OF:

P.O. UPS 6/7/2000

Yaesu U.S.A.
17210 Edwards Rd.
Cerritos, CA 90703

Attention of:

Mikio Maruya, Executive Vice President
(800) 255-9237; FAX: (800) 477-9237
(562) 404-2700, x280; FAX: -1210
mmaruya@yaesuusa.com

SUPERVISED BY:

A handwritten signature in black ink, reading 'M. Flom P. Eng.' with a stylized flourish at the end.

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: d0060035

d) Client: Yaesu U.S.A.
17210 Edwards Rd.
Cerritos, CA 90703

e) Identification: VR-5000
FCC ID: K66VR-5000
Description: Scanning Receiver

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

g) Report Date: June 15, 2000
EUT Received: June 7, 2000

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

i) Sampling method: No sampling procedure used.

l) 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.



**THE AMERICAN
ASSOCIATION
FOR LABORATORY
ACCREDITATION**

ACCREDITED LABORATORY

A2LA has accredited

M. FLOM ASSOCIATES, INC.
Chandler, AZ

for technical competence in the field of

Electrical (EMC) Testing

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 Guide 25-1990 "General Requirements for the Competence of Calibration and Testing Laboratories" (equivalent to relevant requirements of the ISO 9000 series of standards) and any additional program requirements in the identified field of testing.

Presented this 24th day of November, 1998.



Peter Mlynar
President
For the Accreditation Council
Certificate Number 1008.01
Valid to December 31, 2000

For tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical (EMC) Scope of Accreditation



American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 25-1990 AND EN 45001

M. FLOM ASSOCIATES, INC.
Electronic Testing Laboratory
3356 North San Marcos Place, Suite 107
Chandler, AZ 85225
Morton Flom Phone: 480 926 3100

ELECTRICAL (EMC)

Valid to: December 31, 2000 Certificate Number: 1008-01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electromagnetic compatibility tests:

<u>Tests</u>	<u>Standard(s)</u>
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 55013; EN 55014; EN 55022; EN 50081-1; EN 50081-2; FCC Part 18; ICES-003; AS/NZS 1044; AS/NZS 1053; AS/NZS 3548; AS/NZS 4251.1; CNS 13438
RF Immunity	EN 50082-1; EN 50082-2; AS/NZS 4251.1
Radiated Susceptibility	EN 61000-4-3; ENV 50140; ENV 50204; IEC 1000-4-3; IEC 801-3
ESD	EN 61000-4-2; IEC 1000-4-2; IEC 801-2
EFT	EN 61000-4-4; IEC 1000-4-4; IEC 801-4
Surge	EN 61000-4-5; ENV 50142; IEC 1000-4-5; IEC 801-5
47 CFR (FCC)	2, 21, 22, 23, 24, 74, 80, 87, 90, 95, 97

Revised 2/2/2000

Peter Mlynar

5301 Buckeystown Pike, Suite 350 • Frederick, MD 21704-8370 • 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.

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GENERAL INFORMATIONPart 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 3, 1997. All pertinent changes will be reported to the Commission by up-date prior to March 2000.

(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:

Yaesu Musen Co., Ltd.
4-8-8 Nakameguro, Meguro-Ku
Tokyo 153-8644 Japan

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2.911:
2.1033(b)(6)

TECHNICAL REPORT

MANUFACTURER:

Yaesu Musen Co., Ltd.
4-8-8 Nakameguro, Meguro-Ku
Tokyo 153-8644 Japan

TRADE NAME:

Yaesu

FCC ID:

K66VR-5000

MODEL NO:

VR-5000

PHOTOGRAPHS:

SEE LIST OF EXHIBITS

15.31: MEASUREMENT STANDARD & PROCEDURE:

- ___ IEEE STANDARD 187 WAS USED AS A GUIDE.
- ___ FCC MEASUREMENT PROCEDURE MP-1
- x ANSI 63.4 (1992) "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 = 1
2. NUMBER OF CHANNELS = 1200
3. TUNING RANGE, MHz = 0.1 to 2599.9
4. OSCILLATOR RANGE, MHz = 10.8 to 3215
5. I.F., MHz = 614, 45.775, 10.7
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
☒ The antenna requirement does not apply

SUPERVISED BY:

Morton Flom P. Eng.
Morton Flom, P. Eng.

PAGE NO. 6 of 17.

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:

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

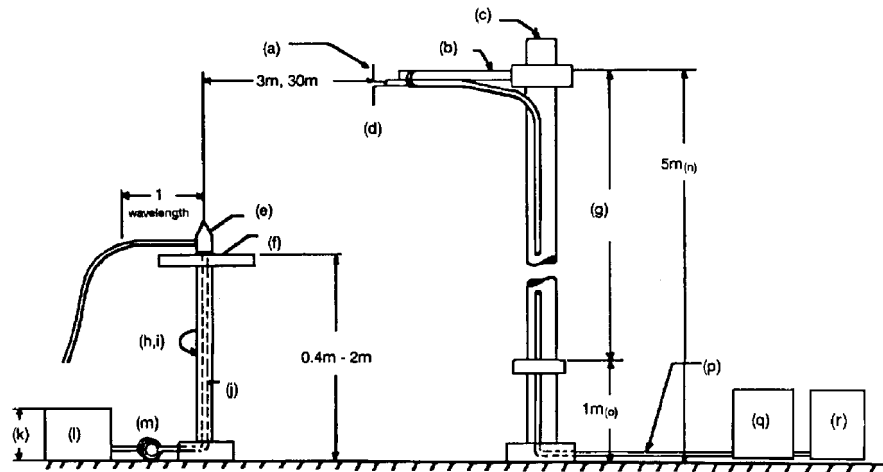
1. At first, bench tests were performed to locate the spurious emissions at the antenna terminals.
2. In the field, tests were conducted over the range shown, The test sample was set up on a wooden turntable above ground, and at a distance of three meters from the antenna connected tot he Spectrum Analyzer.
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:

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

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
 (l) 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
(as applicable)

s/n

Cycle

Last Cal

Per ANSI C63.4-1992, 10.1.4

TRANSDUCER

i00088	EMCO 3109-B 25MHz-300MHz	2336	12 mo.	Sep-99
i00089	Apriel 2001 200MHz-1GHz	001500	12 mo.	Sep-99
i00103	EMCO 3115 1GHz-18GHz	9208-3925	12 mo.	Sep-99
i00065	EMCO 3301-B Active Monopole	2635	12 mo.	Sep-99

AMPLIFIER

i00028	HP 8449A	2749A00121	12 mo.	Mar-00
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SPECTRUM ANALYZER

i00029	HP 8563E	3213A00104	12 mo.	Aug-99
i00033	HP 85462A	3625A00357	12 mo.	May-00
i00048	HP 8566B	2511AD1467	6 mo.	May-00

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TEST SETUP: Radiated Emissions
g0060046: 2000-Jun-14 Wed 08:25:11
STATE: 0:General



TEST SETUP: Radiated Emissions
g0060047: 2000-Jun-14 Wed 08:25:11
STATE: 0:General



PAGE NO. 9 of 17.

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 = 567.224000
 LEVEL = $\text{Log}_{10}^{-1} \left(\frac{-3.75 + 25.86}{20} \right)$
 LEVEL, $\mu\text{V/m}$ @ 3m = 30.23

MEASUREMENT RESULTS = ATTACHED

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

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NAME OF TEST: Receiver Spurious Emissions (Radiated)
 g0060067: 2000-Jun-14 Wed 07:51:00
 STATE: 0:General

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

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	LEVEL, dBuV	@ m	C.F., dB	μV/m	@ m
622.000000	567.224000	3.75	3	25.86	30.23	3
621.995000	567.264000	3.75	3	25.86	30.23	3
311.050000	568.201000	3.83	3	25.89	30.62	3
931.000000	568.244000	2.71	3	25.9	26.95	3
0.100000	569.161000	2.06	3	25.93	25.09	3
1850.000000	569.239000	4.23	3	25.93	32.21	3
1240.000000	569.249000	2.45	3	25.93	26.24	3
2225.000000	569.256000	3.85	3	25.93	30.83	3
1545.000000	569.264000	2.71	3	25.93	27.04	3
1241.000000	570.246000	2.97	3	25.97	27.99	3
1849.000000	573.246000	2.94	3	26.07	28.22	3
2599.950000	574.243000	2.69	3	26.11	27.54	3
622.000000	1134.481000	-2.38	3	34.14	38.73	3
621.995000	1134.499000	-0.56	3	34.14	47.75	3
311.050000	1136.371000	-1.21	3	34.16	44.41	3
931.000000	1136.481000	-1.64	3	34.16	42.27	3
0.100000	1138.283000	-0.17	3	34.17	50.12	3
2225.000000	1138.469000	-0.88	3	34.19	46.29	3
1240.000000	1138.481000	-0.86	3	34.19	46.4	3
1545.000000	1138.489000	-2.09	3	34.19	40.27	3
1850.000000	1138.490000	-0.51	3	34.19	48.31	3
1241.000000	1140.499000	-0.56	3	34.2	48.08	3
1849.000000	1146.497000	-2.23	3	34.27	39.99	3
2599.995000	1148.323000	0.07	3	34.29	52.24	3

SUPERVISED BY:

Morton Flom, P. Eng.

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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.

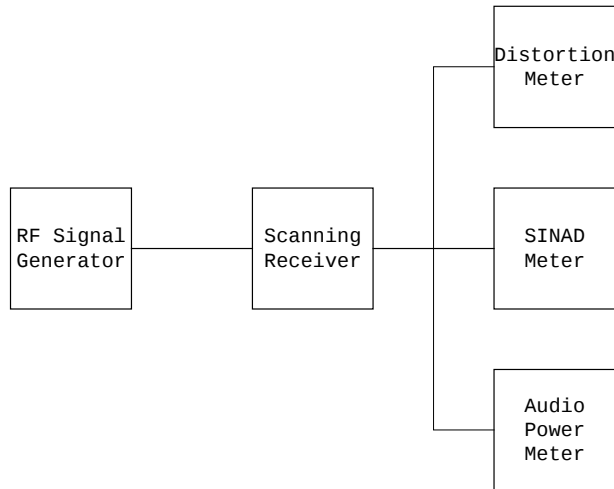
WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

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.

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SCANNING RECEIVER:

Reference Level Sensitivity measured in step 5 = -130 dbm

RF Signal Generator, MHz	Displayed Frequency, MHz	Level for 12 dB SINAD, dBm	Rejection, dB
0.1000-622.00	836.4	113	<-130
	848.97		
	824.04		
622.00-1240.00	836.4	113	<-130
	848.97		
	824.04		
1240.00-1850.00	836.4	113	<-130
	848.97		
	824.04		
1850.00-2600.00	836.4	113	<-130
	848.97		
	824.04		

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Morton Flom, P. Eng.

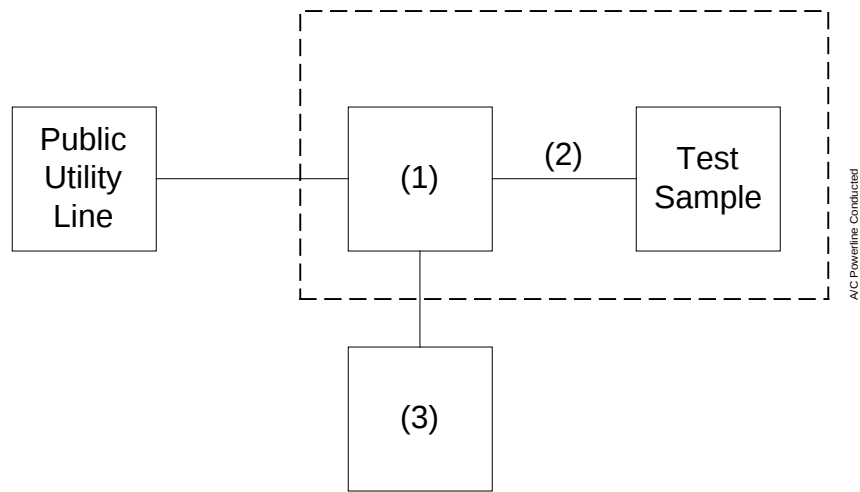
PAGE NO. 13 of 17.
NAME OF TEST: A/C Powerline Conducted Emissions
SPECIFICATION: FCC: 47 CFR 15.107
GUIDE: IEEE Standard 213
TEST CONDITIONS: S. T. & H.
TEST EQUIPMENT: As per attached page

MEASUREMENT PROCEDURE

1. A test sample was connected to the Public Utility lines through a LISN Ailtech Model 94641-1 (50 μ H).
2. A reference level of 250 μ 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. ☐ The test sample used a charger.
☒ The test sample does not use a charger.
5. Measurement Results: Attached.

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AC POWERLINE CONDUCTED MEASUREMENTS

Asset Description (as applicable)	s/n	Cycle	Last Cal
Per ANSI C63.4-1992, 10.1.4			
(1) LINE IMPEDANCE STABILIZATION NETWORK			
i00077 Singer 91221-1 (5 μH)	0396	12 mo.	Sep-99
i00155 Eaton 94641-1 (50 μH)	178	12 mo.	
i00167 Ailtech 94641-1 (50 μH)	0103	12 mo.	
(2) SCREEN ROOM			
i00169 Lindgren 22-2/2-0	3861	N/A	none
i00170 Lindgren LG170	4999		
(3) SPECTRUM ANALYZER			
i00029 HP 8563E	3213A00104	12 mo.	Aug-99
i00033 HP 85462A	3625A00357	12 mo.	May-00
i00048 HP 8566B	2511AD1467	6 mo.	May-00

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TEST SETUP: A/C Powerline Conducted Emissions
g0060070: 2000-Jun-14 Wed 14:55:14
STATE: 0:General



TEST SETUP: A/C Powerline Conducted Emissions
g0060071: 2000-Jun-14 Wed 14:55:14
STATE: 0:General



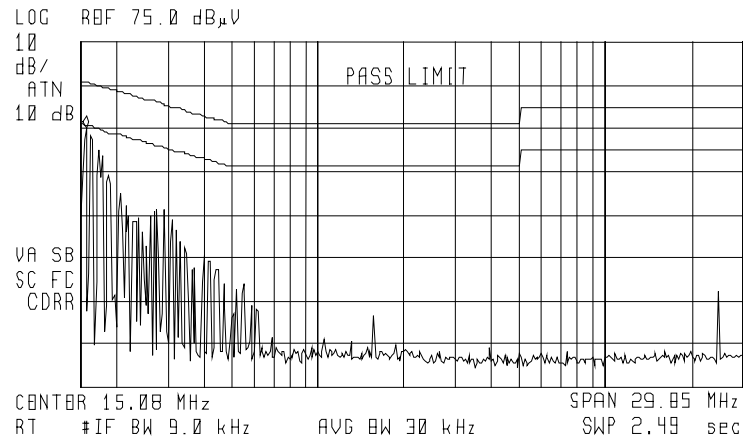
PAGE NO.

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NAME OF TEST: A/C Powerline Conducted Emissions
 g0060069: 2000-Jun-14 Wed 14:16:00
 STATE: 0:General



ACTV DET: PBAK
 MEAS DET: PBAK QP AVG
 MKR 160 kHz
 54.94 dBμV



SUPERVISED BY:

Morton Flom P. Eng
 Morton Flom, P. Eng.

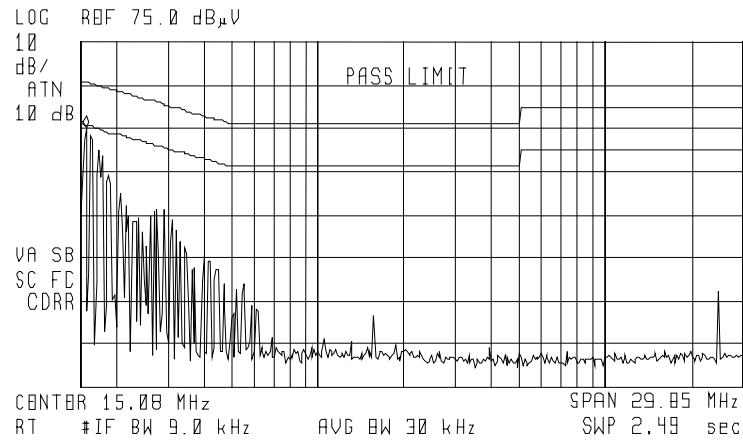
PAGE NO.

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NAME OF TEST: A/C Powerline Conducted Emissions
 g0060069: 2000-Jun-14 Wed 14:16:00
 STATE: 0:General



ACTV DET: PBAK
 MEAS DET: PBAK QP AVG
 MKR 160 kHz
 54.94 dBμV



SUPERVISED BY:

M. Flom P. Eng
 Morton Flom, P. Eng.

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

1

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.

LIMITS: RULE 15.109(a): RECEIVER RADIATED EMISSION LIMITS

FREQUENCY, MHz	FIELD STRENGTH, $\mu\text{V}/\text{m}$	DISTANCE, m
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

LIMITS: RULE 15.111: RECEIVER CONDUCTED EMISSION LIMITS

The power at the antenna terminal at any frequency within the range of measurements shall not exceed 2.0 nanowatts.

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 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: Yaesu Musen Co., Ltd.

EQUIPMENT: VR-5000
K66VR-5000

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