

Kessel Electronics (H.K.) Limited

Application
For
Certification
(FCC ID: M57-P660-001)

June 1, 1999

WO# 9904773

WN/at

June 1, 1999

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FCC ID: M57-P660-001

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INTERTEK TESTING SERVICES

MEASUREMENT/TECHNICAL REPORT

Application : Kessel Electronics (H.K.) Limited
Trade Name/Model No : Kessel's FRS 14 Channels Two Way Family Radio
Date : June 1, 1999

This report concerns (check one:)Original Grant X Class II Change _____

Equipment Type: Family Radio Service, FRS

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No X _____
If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Report prepared by:

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INTERTEK TESTING SERVICES

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List of attached file

Exhibit type	File Description	Filename
Cover Letter	Letter of Agency	letter.pdf
Operation Description	Technical Description	descri.pdf
Test Report	Bandwidth Plot	bw.pdf
Test Report	Modulation Frequency Response	mfr.pdf
Test Report	Modulation Limit Characteristic	mlc.pdf
Test Report	Spurious Emission	spurious.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Test Report	Test Report	report.doc
Test Setup Photo	Radiated Emission	radiated1.jpg to radiated2.jpg
Internal Photo	Internal Photo	iphoto1.jpg to iphoto6.jpg
External Photo	External Photo	ophoto1.jpg to ophoto2.jpg

EXHIBIT 1

GENERAL DESCRIPTION

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1.0 General Description

1.1 Product Description

The Equipment Under Test (EUT) is a 14-Channel Family Radio Service (FRS) Transceiver operating at 462.5625 MHz - 467.7125 MHz. The EUT is powered by 4.5V battery (3 x "AA" battery).

Transmitter portion:

- (i) Type of Emission: F3E
- (ii) Frequency Range: 462.5625 MHz - 462.7125 MHz and 467.5625 MHz - 467.7125 MHz
- (iii) Maximum Power Rating: 0.35W

The brief circuit description is saved with filename: descri.pdf

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1.2 Related Submittal(s) Grants

This is an Application for Certification of the transmitter portion of a FRS Transceiver. The receiver section of the FRS Transceiver is subject to verification process.

1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.4 (1992). All measurement were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. For each scan, the procedure of maximizing emissions in Appendices D and E were followed. All Radiated tests were performed at an antenna the EUT distance of 3 meters, unless stated otherwise in the **“Justification Section”** of this Application.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the emission data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. The test facility and site measurement data have been fully placed on file with the FCC.

EXHIBIT 2

SYSTEM TEST CONFIGURATION

2.0 System Test Configuration

2.1 Justification

The device was configured for testing in a typical fashion (as a customer would normally use it). The device was placed on a turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes. When the radiated emissions are measured.

The device was powered by 3 fully charged 1.5V "AA" battery.

The frequency range from 30 MHz to 10th harmonics was searched for spurious emissions from the device. Only those emissions reported were detected. All other emissions were at least 20 dB below the applicable limits.

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2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered on, a signal is transmitted.

2.3 Special Accessories

A special headset is provided by client for compliance of this device.

2.4 Equipment Modification

Any modification installed previous to testing by Kessel Electronics (H.K.) Limited will be incorporated in each production model sold/leased in the United States.

No modification were installed by Intertek Testing Services.

Confirmed by:

Wilbur Ng
Assistant Manager
Intertek Testing Services
Agent for Kessel Electronics (H.K.) Limited



Signature

June 2, 1999 Date

EXHIBIT 3

RF POWER OUTPUT

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3.0 RF Power Output (Section 2.985(a))

A. Equipment Used

Equipment	Brand Name	Model No.
Biconical Antenna	CDI	B300
Test receiver	Rohde & Schwarz	ESVS30
RF Filter	Tailithic	3VF
Tuned Dipole Antenna	CDI	Robert Antenna 4
Signal Generator	Maconi	2024

B. Testing Procedure

1. On a test site, the EUT shall be placed at 1.5m height on a turn table, and in the position closest to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarisation located 3m from EUT to correspond to the frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the quasi-peak detector is used for the measurement.
4. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.

INTERTEK TESTING SERVICES

6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. The transmitter shall be replaced by a tuned dipole (substitution antenna).
10. The substitution antenna shall be orientated for vertical polarisation and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
11. The substitution antenna shall be connected to a calibrated signal generator.
12. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
13. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
14. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
15. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
16. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarisation.
17. The measure of the effective radiated power is the larger of the two levels recorded, at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.

Table 1**Kessel Electronics (H.K.) Limited
Kessel P-660****Transmission Power**

Channel	Frequency (M H z)	E ffectived Radiated Power (W)	L im it (W)	M argin (W)
1	462.563	0.34	0.5	-0.16
2	462.589	0.34	0.5	-0.16
3	462.613	0.34	0.5	-0.16
4	462.638	0.34	0.5	-0.16
5	462.662	0.35	0.5	-0.15
6	462.688	0.35	0.5	-0.15
7	462.712	0.34	0.5	-0.16
8	467.562	0.34	0.5	-0.16
9	467.588	0.35	0.5	-0.15
10	467.611	0.35	0.5	-0.15
11	467.639	0.35	0.5	-0.15
12	467.663	0.34	0.5	-0.16
13	467.688	0.34	0.5	-0.16
14	467.711	0.34	0.5	-0.16

Notes: Negative sign in the margin column shows the value below limits.

Test Engineer: Liza C. Y. Chan

Date of Test: May 27, 1999

EXHIBIT 4

MODULATION CHARACTERISTICS

4.0 Modulation Characteristics

In order to satisfy the 95.637(a) requirement, Modulation Frequency Response and Modulation Limit Characteristics are attached in Exhibit 4.1 & 4.2.

Plots for each tests are saved with filename: mfr.pdf and mlc.pdf

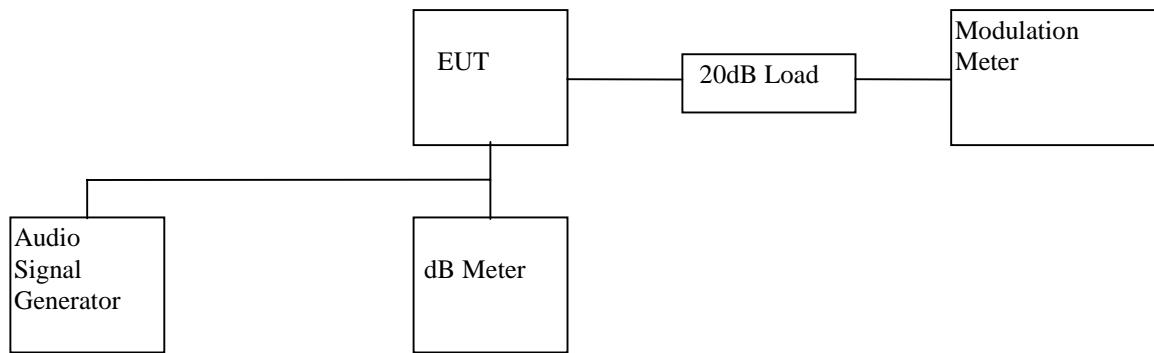
4.1 **Modulation Frequency Response**

A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	Leader	LFG-1300S
dB meter	Leader	LMV-182A
20 dB RF Load	Bird	8304-200-N
Modulation Meter	Marconi Instrument	2945

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Set the audio signal generator frequency to the sound pressure level 97.0dB SPL at the microphone of the EUT.
- 3) The frequency of the audio signal generator is changed from 300Hz to 5kHz.
- 4) Record the frequency deviation.

C. Test Result**Table 2****Kessel Electronics (H.K.) Limited
Kessel P-660****Modulation Frequency Response**

Test Channel : 11

Input level = 97.0dBSPL

Modulation Frequency (Hz)	Modulation index (%)
300	0.27
400	0.50
500	0.84
600	0.90
700	0.89
800	0.56
900	0.40
1000	0.39
1250	0.32
1500	0.27
1750	0.26
2000	0.16
2250	0.20
2500	0.11
2750	0.08
3000	0.04
3125	0.03
3250	0.02
3500	0.02
4000	0.02
5000	0.02

Test Engineer: Liza C. Y. Chan

Date of Test: May 27, 1999

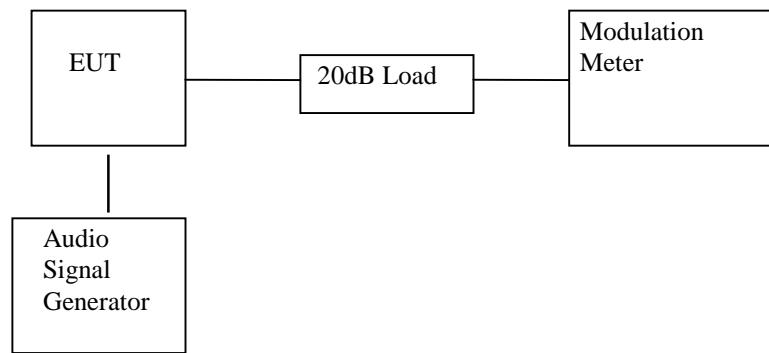
4.2 **Modulation Limiting Characteristics (Section 2.987(b))**

A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	Leader	LFG-1300S
20 dB RF Load	Bird	8304-200-N
Modulation Meter	Marconi	2950

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Set the frequency of the audio signal generator to 700Hz and adjust the level from 47dB SPL to 127dB SPL.
- 3) Record the maximum value of plus or minus peak frequency deviation.
- 4) Repeat the above procedure with frequency 1750Hz, 2250Hz & 3125Hz.

C. Test Result**Table 3****Kessel Electronics (H.K.) Limited
Kessel P-660****Modulation Limiting Characteristics**

Test Channel : 11

Modulation Input (dB SPL)	Peak Frequency Deviation (kHz) at 700Hz	Peak Frequency Deviation (kHz) at 1750Hz	Peak Frequency Deviation (kHz) at 2250Hz	Peak Frequency Deviation (kHz) at 3125Hz
47	0.20	0.12	0.19	0.30
57	0.20	0.12	0.19	0.30
67	0.20	0.12	0.19	0.30
77	0.20	0.12	0.19	0.30
87	0.62	0.45	0.55	0.30
97	1.52	1.04	0.86	0.30
107	1.82	1.18	0.94	0.50
117	1.83	1.20	0.93	0.55
127	1.84	1.22	0.94	0.56

Test Engineer: Liza C. Y. Chan

Date of Test: May 27, 1999

EXHIBIT 5

OCCUPIED BANDWIDTH

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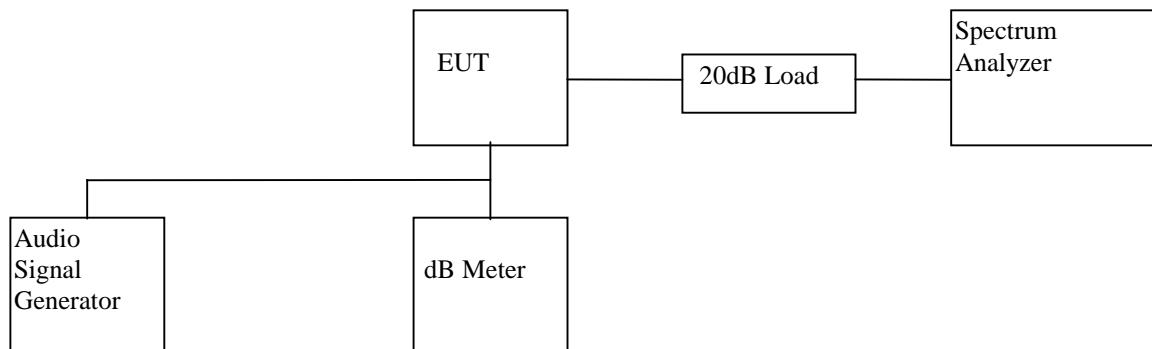
5.0 Occupied Bandwidth (Section 95.633(c))

A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	Leader	LFG-1300S
dB meter	Leader	LMV-182A
20 dB RF Load	Bird	8304-200-N
Spectrum Analyzer	Hewlett Packard	8951EM

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Set the level of audio signal generator to obtain 16 dB greater than required for 50% modulation.
- 3) The occupied bandwidth is measured with the spectrum analyzer set at 5kHz/div scan and 10dB/div.

C. Test Result

The occupied Bandwidth is measured to be 5.8 kHz.

For the electronic filing, the bandwidth plot is saved with filename:
bw.pdf

Test Engineer: Liza C. Y. Chan

Date of Test: May 27, 1999

EXHIBIT 6

SPURIOUS EMISSION

6.0 **Spurious Emission (Section 95.635)**

In order to satisfy the 95.635 requirement, the spurious emission from the EUT are measured and shown in the Exhibit 6.1.

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6.1 **Field Strength of Spurious Radiation (Section 95.635)**

A. Test Equipment

Equipment	Brand Name	Model No.
Antenna	CDI	B100,B200,B300, Horn
Test receiver	Rohde & Schwarz	ESVS30
RF Filter	Tailithic	3VF

B. Testing Procedure

Radiated emission measurements were performed according to the procedures in ANSI C63.4(1992). All measurements were performed in Open Area Test Sites located at Roof Top of Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.

C. Radiated Emission Configuration Photograph

Worst Case Radiated Emission

For electronic filing, the radiated emission configurations photograph is saved with filename: radiated1.pdf and radiated2.pdf

C. Test Result

Kessel Electronics (H.K.) Limited
Kessel P-660

Table 4(a)

1. Unwanted emission from CARRIER $\pm 6.25\text{kHz}$ to Carrier $\pm 31.25\text{kHz}$

(Refer to the plots which is saved with filename: spurious.pdf)

Region	Unwanted emission	
	Channel 4	Channel 11
CARRIER $\pm 6.25\text{kHz}$ to $\pm 12.5\text{kHz}$	<25dB	<25dB
CARRIER $\pm 12.5\text{kHz}$ to $\pm 31.25\text{kHz}$	<35dB	<35dB

Table 4(b): Channel 4

Orientation	Frequency (M Hz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Calculated Net at 3m (dB μ V/m)	Calculated Limit at 3m * (dB μ V/m)	Margin (dB)
V	925.275	43.1	16	33.0	60.1	82.2	-22.1
V	1387.911	82.5	34	25.5	74.0	82.2	-8.2
V	1850.553	77.4	34	26.5	69.9	82.2	-12.3
V	2313.185	66.4	34	29.1	61.5	82.2	-20.7
H	2775.832	67.3	34	29.1	62.4	82.2	-19.8
H	3238.467	66.9	34	31.4	64.3	82.2	-17.9
V	3701.108	52.1	34	32.8	50.9	82.2	-31.3
V	4163.750	55.8	34	34.2	56.0	82.2	-26.2
H	4626.374	64.7	34	34.0	64.7	82.2	-17.5
H	5089.015	53.2	34	35.2	54.4	82.2	-27.8

Remark:

1. Quasi-peak data for emission below 1000MHz.
2. ‘-‘ sign in margin column shows the value below the limits.
3. Any emissions and any other harmonics which are attenuated more than 20dB below the permissible value need not be recorded.
4. Horn Antenna and average detector is used for emission over 1000MHz.

$$\begin{aligned}
 * \text{ Calculated limit} &= 10 \log_{10} (\text{TP(W)}) - 43 - 10 \log_{10} (\text{TP}) \\
 &= -43 \text{dBW} \\
 &= 82.2 \text{dB}\mu\text{V/m at 3m}
 \end{aligned}$$

Test Engineer: Liza C. Y. Chan

Date of Test: May 27, 1999

INTERTEK TESTING SERVICES

Table 4(b): Channel 11 (Cont'd)

Orientation	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Calculated Net at 3m (dB μ V/m)	Calculated Limit at 3m * (dB μ V/m)	Margin (dB)
V	935.279	44.2	16	33.0	61.2	82.2	-21.0
V	1402.910	82.6	34	25.5	74.1	82.2	-8.1
V	1870.560	77.6	34	26.5	70.1	82.2	-12.1
V	2338.197	66.2	34	29.1	61.3	82.2	-20.9
H	2805.841	67.9	34	29.1	63.0	82.2	-19.2
H	3273.465	66.8	34	31.4	64.2	82.2	-18.0
V	3741.101	52.4	34	32.8	51.2	82.2	-31.0
V	4208.748	55.6	34	34.2	55.8	82.2	-26.4
H	4676.387	65.2	34	34.0	65.2	82.2	-17.0
H	5144.021	52.0	34	35.2	53.2	82.2	-29.0

Remark:

1. Quasi-peak data for emission below 1000MHz.
2. ‘-‘ sign in margin column shows the value below the limits.
3. Any emissions and any other harmonics which are attenuated more than 20dB below the permissible value need not be recorded.
4. Horn Antenna and average detector is used for emission over 1000MHz.

$$\begin{aligned}
 * \text{ Calculated limit} &= 10 \log_{10} (\text{TP(W)}) - 43 - 10 \log_{10} (\text{TP}) \\
 &= -43 \text{dBW} \\
 &= 82.2 \text{dB}\mu\text{V/m at 3m}
 \end{aligned}$$

Test Engineer: Liza C. Y. Chan

Date of Test: May 27, 1999

EXHIBIT 7

FREQUENCY STABILITY

7.0 Frequency Stability

The frequency tolerance was tested in normal condition & over extreme ambient conditions with respect to voltage and temperature variation.

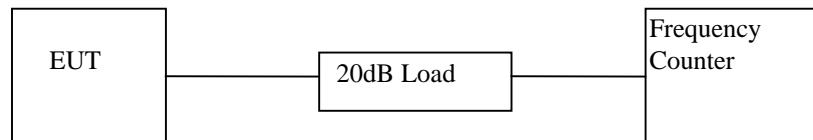
7.1 **Frequency Tolerance (Section 95.625)**

A. Test Equipment

Equipment	Brand Name	Model No.
Regulated Power Supply	PAD	30-35L
20 dB RF Load	Bird	8304-200-N
Frequency Counter	Phillips	PM6668

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Measure all transmit channel frequencies in MHz.

C. Test Result**Table 5****Kessel Electronics (H.k.) Limited
Kessel P-660****Frequency Tolerance**

Channel	Frequency (M H z)	M easured Frequency (M H z)	Tolerance (%)
1	462.5625	462.56218	0.000069
2	462.5875	462.58718	0.000069
3	462.6125	462.61250	0.000000
4	462.6375	462.63715	0.000076
5	462.6625	462.66213	0.000080
6	462.6875	462.68715	0.000076
7	462.7125	462.71213	0.000080
8	467.5625	467.56213	0.000079
9	467.5875	467.58710	0.000086
10	467.6125	467.61210	0.000086
11	467.6375	467.63708	0.000090
12	467.6625	467.66205	0.000096
13	467.6875	467.68708	0.000090
14	467.7125	467.71208	0.000090

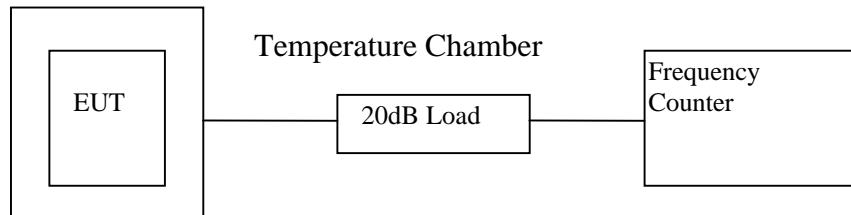
7.2 **Frequency Stability - Temperature (Section 2.995)**

A. Test Equipment

Equipment	Brand Name	Model No.
20 dB RF Load	Bird	8304-200-N
Frequency Counter	Phillips	PM6668

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Set the Temperature Chamber to -20°C and stabilize the EUT temperature for one hour. Set transmitter ON for two minutes.
- 3) Measure the channel frequency of channel 4, 11 in MHz.
- 4) Turn the EUT OFF
- 5) Repeat the above procedure from -20°C to 50°C with 10°C increment.

C. Test Result**Table 6(a)****Kessel Electronics (H.K.) Limited
Kessel P-660****Frequency Deviation with Temperature Variation**

Channel : 4

Temperature (°C)	Assigned Frequency (M Hz)	Measured Frequency (M Hz)	% Deviation
-20	462.6375	462.63708	-0.000091
-10	462.6375	462.63710	-0.000086
0	462.6375	462.63713	-0.000080
10	462.6375	462.63720	-0.000065
20	462.6375	462.63715	-0.000076
30	462.6375	462.63705	-0.000097
40	462.6375	462.63688	-0.000134
50	462.6375	462.63668	-0.000177

Test Engineer: Liza C. Y. Chan

Date of Test: May 27, 1999

C. Test Result**Table 6(b)**

Kessel Electronics (H.K.) Limited
Kessel P-660

Frequency Deviation with Temperature Variation

Channel : 11

Temperature (°C)	Assigned Frequency (M Hz)	Measured Frequency (M Hz)	% Deviation
-20	467.6375	467.63708	-0.000090
-10	467.6375	467.63710	-0.000086
0	467.6375	467.63715	-0.000075
10	467.6375	467.63720	-0.000064
20	467.6375	467.63708	-0.000090
30	467.6375	467.63710	-0.000086
40	467.6375	467.63688	-0.000133
50	467.6375	467.63665	-0.000182

Test Engineer: Liza C. Y. Chan

Date of Test: May 27, 1999

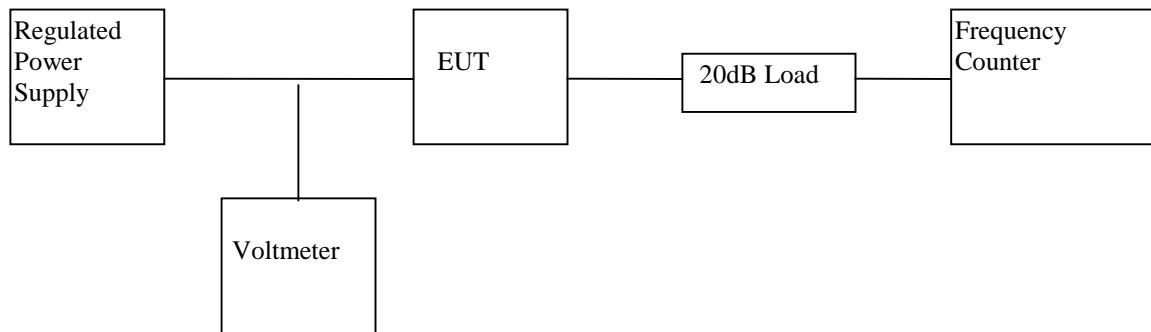
7.3 **Frequency Stability - Voltage (Section 2.995)**

A. Test Equipment

Equipment	Brand Name	Model No.
Regulated Power Supply	PAD	30-35L
20 dB RF Load	Bird	8304-200-N
Voltage meter	Fluke	87
Frequency Counter	Phillips	PM6668

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Vary the level of regulated power supply to [the manufacturer specified battery end point](#) of the EUT.
- 3) Measure the channel frequency from channel [4 to 11](#) in MHz.

C. Test Result

Table 7

Kessel Electronics (H.K.) Limited
Kessel P-660

Frequency Deviation with Voltage Variation

The manufacturer specified battery end point 3.3V

Channel	Frequency (M H z)	M easured Frequency (M H z)	Tolerance (%)
4	462.6375	462.63700	-0.000108
11	467.6375	467.63750	0.000000

EXHIBIT 8

TECHNICAL SPECIFICATIONS

8.0 Technical Specifications

8.1 Block Diagram

For electronic filing, the block diagram of the FRS is saved with filename:
block.pdf

Figure 8.1 Block Diagram

8.2 Schematic Diagram

For electronic filing, the schematic diagram of the FRS is saved with filename: circuit.pdf

Figure 8.2 Schematic Diagram

EXHIBIT 9

PRODUCT LABELLING

9.0 **Product Labelling**

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9.1 Label Artwork & Location

Figure 9.1 Label Artwork & Location

An engineering drawing of the label which will be permanently affixed to the unit. For electronic filing, the label artwork & location are saved with filename: label.pdf

EXHIBIT 10

PHOTOGRAPHS

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10.0 Equipment Photographs

For electronic filing, photographs of the tested EUT are saved with filename: ophoto1.jpg to [ophoto2.jpg](#) for external photo and iphoto1.jpg to [iphoto6.jpg](#) for internal photo.

EXHIBIT 11

INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

11.0 Instruction Manual

This manual will be provided to the end-user with each unit sold/leased in the United States.

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf