

**DSI (HK) Limited**

Application  
For  
Certification  
**(FCC ID: KNZ48417)**

February 17, 2003

WO# 0301539  
CKL/  
February 18, 2003

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# INTERTEK TESTING SERVICES

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## INTERTEK TESTING SERVICES

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### MEASUREMENT/TECHNICAL REPORT

**Application** : DSI (HK) Limited  
**Trade Name/Model No** : 48417  
**Date** : February 18, 2003

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
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.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
External Photo	External Photo	external photos.pdf
Test Report	Tune Up Procedure	tuneup.pdf
Test Report	Part List	partlist.pdf
Test Report	Audio Low Pass Filter Response	lpf.pdf

# **INTERTEK TESTING SERVICES**

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## **EXHIBIT 1**

### **GENERAL DESCRIPTION**

## INTERTEK TESTING SERVICES

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### 1.0 **General Description**

#### 1.1 Product Description

The equipment Under Test (EUT) is a Channel Family Radio Service Transceiver operating at 462.6375 MHz. The EUT is powered by 6.0V d.c. (4 x 1.5V “LR44” batteries).

Transmitter Portion:

- i) Type of Emission : 1K15F3E
- ii) Frequency Range : 462.6375MHz
- iii) Maximum Power Rating : 0.000048W ERP
- iv) Antenna Type : Integral

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) and ANSI/TIA/EIA-603-1992. 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.



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## **EXHIBIT 2**

### **SYSTEM TEST CONFIGURATION**

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### 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 4 x new 1.5V "LR44" "AAA" batteries.

The frequency range from 30 MHz to 10<sup>th</sup> 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 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

### 2.5 Equipment Modification

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

No modification were installed by Intertek Testing Services.

*Confirmed by:*

*C. K. Lam*

*Manager*

*Intertek Testing Services*

*Agent for DSI (HK) Limited*



\_\_\_\_\_  
Signature

\_\_\_\_\_  
February 18, 2003

\_\_\_\_\_  
Date

## **INTERTEK TESTING SERVICES**

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### **EXHIBIT 3**

### **RF POWER OUTPUT**

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## INTERTEK TESTING SERVICES

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### 3.0 **RF Power Output (Section 2.1046(a))**

#### A. Equipment Used

<b>Equipment</b>	<b>Brand Name</b>	<b>Model No.</b>
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**

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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.

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## INTERTEK TESTING SERVICES

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**Table 1**

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**Transmission Power**

Channel	Frequency (MHz)	Effective Radiated Power		Limit (mW)	Margin (mW)
		(dBm)	(mW)		
4	467.6375	-13.2	0.048	500	-499.952

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

Test Engineer: Anthony K. M. Chan

Date of Test: November 11, 2002

**EXHIBIT 4**

**MODULATION CHARACTERISTICS**



## INTERTEK TESTING SERVICES

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### 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

## INTERTEK TESTING SERVICES

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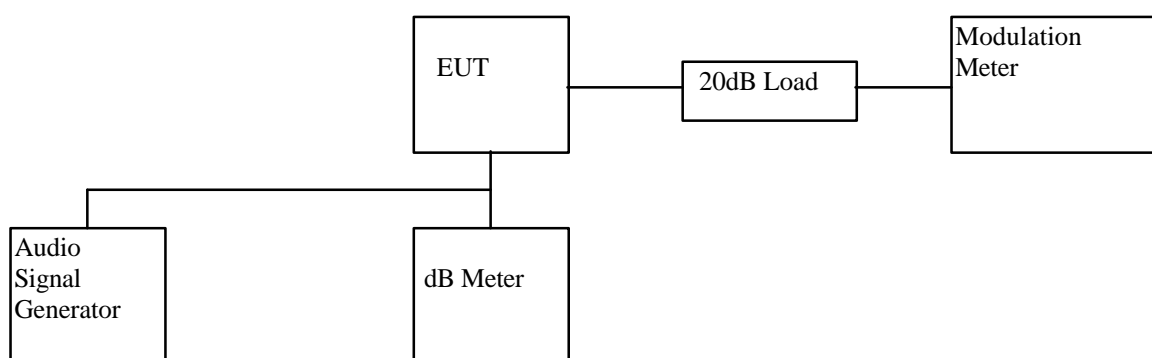
### 4.1 Modulation Frequency Response

#### 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 200Hz to 5kHz.
- 4) Record the frequency deviation.

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## INTERTEK TESTING SERVICES

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### C. Test Result

Table 2

**DSI (HK) Limited**  
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### Modulation Frequency Response

Test Channel : 4

Input level = 97.0dB SPL

Modulation Frequency (Hz)	Frequency Deviation (kHz)	Modulation Index (%)
200	0.004	0.020
300	0.004	0.013
400	0.004	0.010
500	0.003	0.008
600	0.003	0.005
700	0.003	0.004
800	0.003	0.004
900	0.003	0.003
1000	0.003	0.003
1250	0.003	0.002
1500	0.003	0.002
1750	0.003	0.002
2000	0.003	0.002
2250	0.003	0.001
2500	0.003	0.001
2750	0.003	0.001
3000	0.003	0.001
3125	0.003	0.001
3250	0.003	0.001
3500	0.003	0.001
4000	0.003	0.001
5000	0.003	0.001

Test Engineer: Anthony K. M. Chan

Date of Test: November 11, 2002

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## INTERTEK TESTING SERVICES

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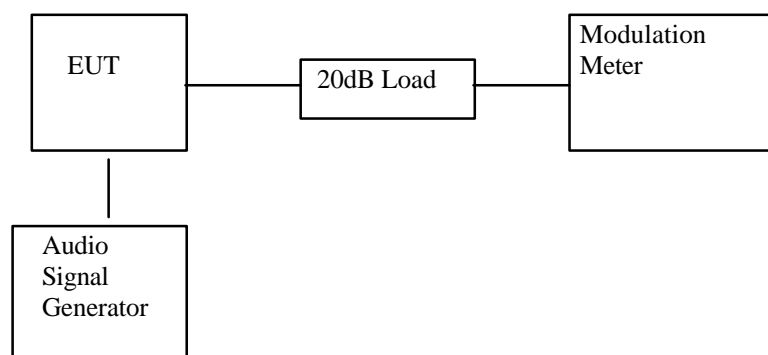
### 4.2 Modulation Limiting Characteristics (Section 2.1047(b))

#### 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 500Hz and adjust the level from 47dBSPL to 127dBSPL.
- 3) Record the maximum value of plus or minus peak frequency deviation.
- 4) Repeat the above procedure with frequency 1000Hz, 2500Hz & 3125Hz.

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## INTERTEK TESTING SERVICES

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### C. Test Result

**Table 3**

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### **Modulation Limiting Characteristics**

Test Channel : 4

<b>Modulation Input (dB SPL)</b>	<b>Peak Frequency Deviation (kHz) at 500Hz</b>	<b>Peak Frequency Deviation (kHz) at 1000Hz</b>	<b>Peak Frequency Deviation (kHz) at 2500Hz</b>	<b>Peak Frequency Deviation (kHz) at 3125Hz</b>
47	0.004	0.004	0.003	0.003
57	0.004	0.004	0.003	0.003
67	0.004	0.004	0.003	0.003
77	0.004	0.004	0.003	0.003
87	0.004	0.004	0.003	0.003
97	0.005	0.004	0.003	0.003
107	0.006	0.004	0.003	0.003
117	0.019	0.010	0.003	0.003
127	0.061	0.032	0.004	0.003
137	0.140	0.073	0.006	0.004

Test Engineer: Anthony K. M. Chan

Date of Test: November 11, 2002

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## INTERTEK TESTING SERVICES

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### 4.3 Audio Low Pass Filter Response (Section 95.637(b))

#### A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	Leader	LFG-1300S
dB meter	Leader	LMV-182A

#### B. Testing Procedure

- 1) Connect the audio signal generator to the input of the post limiter low pass filter and the dB meter to the output of the post limiter low pass filter.
- 2) Apply a 1000 Hz tone from the audio signal generator and adjust the level per manufacturer's specifications. Record the dB level of the 1000 Hz tone as  $LEV_{REF}$ .
- 3) Set the audio signal generator to the desired test frequency between 3000 Hz and the upper low pass filter limit. Record the dB level at the test frequency as  $LEV_{FREQ}$ .
- 4) Calculate the audio frequency response at the test frequency as:

$$low\ pass\ filter\ response = LEV_{FREQ} - LEV_{REF}$$

- 5) Repeat the above procedure for all the desired test frequencies.

#### C. Test Result

For electronic filing, the audio low pass frequency response is saved with filename: lpf.pdf.

**EXHIBIT 5**

**OCCUPIED BANDWIDTH**

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## INTERTEK TESTING SERVICES

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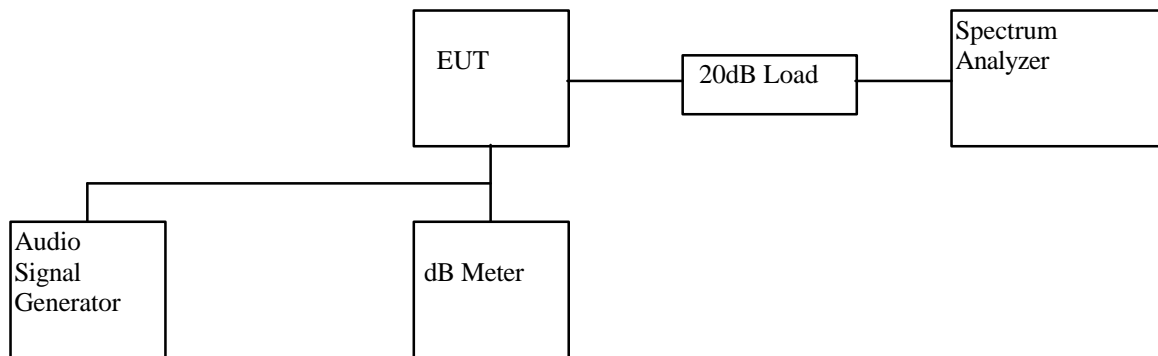
### 5.0 Occupied Bandwidth (Section 95.633(c))

#### 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 1.15 kHz.

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

Test Engineer: Anthony K. M. Chan

Date of Test: November 11, 2002



## **INTERTEK TESTING SERVICES**

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### **EXHIBIT 6**

### **SPURIOUS EMISSION**

## INTERTEK TESTING SERVICES

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### 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.

## **INTERTEK TESTING SERVICES**

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### **C. Radiated Emission Configuration Photograph**

#### **Worst Case Radiated Emission**

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

**C. Test Result**

**DSI (HK) Limited  
48417**

**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)

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

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## INTERTEK TESTING SERVICES

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**Table 4(b): Channel 4**

<b>Frequency</b> <b>(MHz)</b>	<b>Effective Radiated Power (dBm)</b>	<b>Transmission Power (dBm)</b>	<b>Attenuation (dB)</b>	<b>Limit (dB)</b>	<b>Margin (dB)</b>
925.274	-60.0	-13.2	46.8	-0.2	47.0
1387.911	-47.0	-13.2	33.8	-0.2	34.0
1850.548	-57.0	-13.2	43.8	-0.2	44.0
2313.185	-57.0	-13.2	43.8	-0.2	44.0
2775.822	-54.0	-13.2	40.8	-0.2	41.0
3238.459	-60.0	-13.2	46.8	-0.2	47.0
3701.096	-60.0	-13.2	46.8	-0.2	47.0

- Remark:
1. Transmission power is -13.2 dBm or -43.2 dB(W).
  2. According to Section 95.635(b7), the unwanted emission should be attenuated below TP by at least  $43 + 10 \log_{10} (TP)$  dB or -0.2 dB.
  3. The test is performed according to ANSI/TIA/EIA-603-1992.

Test Engineer: Anthony K. M. Chan

Date of Test: November 11, 2002

## **INTERTEK TESTING SERVICES**

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### **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.



## INTERTEK TESTING SERVICES

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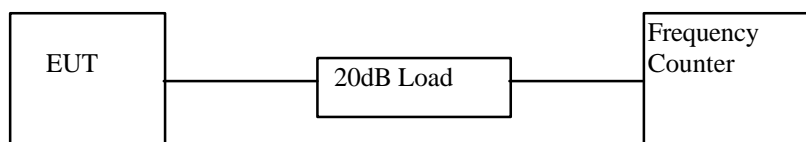
### 7.1 Frequency Tolerance (Section 95.627)

#### 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.

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## INTERTEK TESTING SERVICES

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### C. Test Result

**Table 5**

**DSI (HK) Limited  
48417**

#### **Frequency Tolerance**

Channel	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (%)
4	462.6375	462.637915	0.000090

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## INTERTEK TESTING SERVICES

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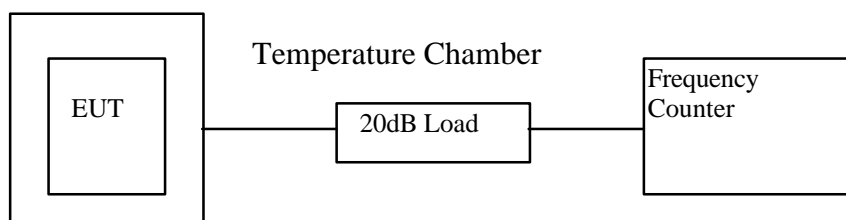
### 7.2 Frequency Stability - Temperature (Section 2.1055)

#### 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 in MHz.
- 4) Turn the EUT OFF
- 5) Repeat the above procedure from -20°C to 50°C with 10°C increment.

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## INTERTEK TESTING SERVICES

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### C. Test Result

**Table 6(a)**

**DSI (HK) Limited  
48417**

### **Frequency Deviation with Temperature Variation**

Channel : 4

Temperature (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	% Deviation
-20	462.6375	462.63644	-0.000229
-10	462.6375	462.63641	-0.000236
0	462.6375	462.63685	-0.000141
10	462.6375	462.63729	-0.000046
20	462.6375	462.63792	0.000090
30	462.6375	No Transmission	N/A
40	462.6375	No Transmission	N/A
50	462.6375	No Transmission	N/A

Test Engineer: Anthony K. M. Chan

Date of Test: November 11, 2002

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## INTERTEK TESTING SERVICES

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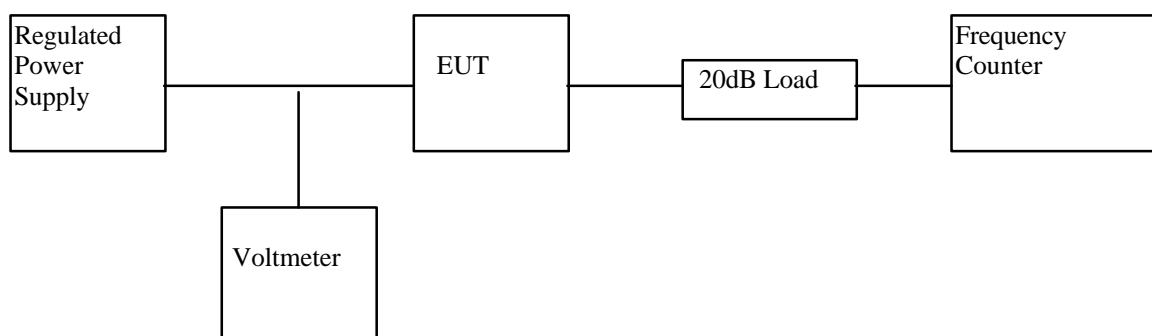
### 7.3 Frequency Stability - Voltage (Section 2.995)

#### 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 of channel 4 in MHz.

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## INTERTEK TESTING SERVICES

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### C. Test Result

**Table 7**

**DSI (HK) Limited  
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#### **Frequency Deviation with Voltage Variation**

The manufacturer specified battery end point 5.5V

Channel	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (%)
4	462.6375	462.637420	-0.000017

# **INTERTEK TESTING SERVICES**

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## **EXHIBIT 8**

### **TECHNICAL SPECIFICATIONS**

## INTERTEK TESTING SERVICES

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### 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**

## **INTERTEK TESTING SERVICES**

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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

## **INTERTEK TESTING SERVICES**

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### **EXHIBIT 10**

### **PHOTOGRAPHS**

## INTERTEK TESTING SERVICES

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### 10.0 **Equipment Photographs**

For electronic filing, photographs of the tested EUT are saved with filename: external photos.pdf and internal photos.pdf

**EXHIBIT 11**  
**INSTRUCTION MANUAL**



## INTERTEK TESTING SERVICES

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### 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

## **INTERTEK TESTING SERVICES**

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### **EXHIBIT 12**

### **TUNE UP PROCEDURE**

## INTERTEK TESTING SERVICES

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### 12.0 **Tune Up Procedure**

For electronic filing, a preliminary copy of the Tune Up Procedure is saved with filename: tuneup.pdf

## **INTERTEK TESTING SERVICES**

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### **EXHIBIT 13**

### **PART LIST**

## INTERTEK TESTING SERVICES

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### 13.0 **Part List**

For electronic filing, a preliminary copy of the Part List is saved with filename: partlist.pdf

**EXHIBIT 14**  
**INPUT CURRENT**

### 14.0 **Input Current**

The input current to final r.f. stage at 6.0V d.c. is 60mA.

**EXHIBIT 15**

**RF EXPOSURE INFO**



### 15.0 **RF Exposure Info**

The RF Safety Information is shown on P.44 of User Manual.