

#### **Giant Electronics Limited**

Application
For
Certification
(FCC ID: K7GFV525)

April 20, 2005

05052971 TL/ Ann Choy April 20, 2005

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# **MEASUREMENT/TECHNICAL REPORT**

Application : Giant Electronics Limited

Trade Name/Model No : Motorola FV525 Date : April 20, 2005

This report concerns (check one:)Original Gr		<u> </u>
Equipment Type: FRF - Part 95 Family Radio	<u> Face Held Transmitte</u>	er
Deferred grant requested per 47 CFR 0.457(	d)(1)(ii)? Yes If yes, defer until:	
		date
Company Name agrees to notify the Commis	-	
	date	
Report prepared by:	Tommy Leung Intertek Testin 2/F., Garment 576 Castle Pe	g Services Centre,

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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	config photos.doc
Internal Photo	Internal Photo	internal photos.doc
External Photo	External Photo	external photos.doc
Test Report	Tune Up Procedure	tuneup.pdf
Test Report	Part List	partlist.pdf
Cover Letter	Confidentiality Request	request.pdf

# **EXHIBIT 1**

# **GENERAL DESCRIPTION**

#### 1.0 General Description

#### 1.1 Product Description

The Equipment Under Test (EUT) is a Two Way Radio with FRS operating between 462.5625MHz and 467.7125MHz. The EUT is powered by 3.6V (1 x 3.6V "Ni-MH" type rechargeable battery) or 4.5V (3 x "AA" size 1.5V alkaline batteries). According to user manual instruction, the EUT is turned off while in charging tray.

**Transmitter Portion** 

(i) Type of Emission : FRS - 10K4F3E

(ii) Frequency Range : FRS - 462.5625 to 462.7125MHz (7 Channels)

FRS - 467.5625 to 467.7125MHz (7 Channels)

(iii) Maximum Power Rating: FRS (Channel 1 – 7) - 0.15W ERP

FRS (Channel 8 - 14) - 0.10W ERP

(iv) Antenna Type : Integral

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

#### 1.2 Related Submittal(s) Grants

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

#### 1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.4 (2001) and ANSI/TIA/EIA-603-A-2001. 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 new "AA" size 1.5V alkaline batteries.

The frequency range from 30 MHz to 4.69 GHz 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.

#### 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

No special accessory is needed 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 Giant Electronics Limited will be incorporated in each production model sold/leased in the United States.

No modification were installed by Intertek Testing Services.

#### 2.6 Support Equipment

A headset with 1.2m unshielded cable. (Supplied by Client)

Confirmed by:

Tommy Leung
Assistant Manager
Intertek Testing Services
Agent for Giant Electronics Limited



April 20, 2005 Date

# **EXHIBIT 3**

# **RF POWER OUTPUT**

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

#### A. Equipment Used

Equipment	Brand Name	Model No.
Log Periodic Antenna	EMCO	3148
Test receiver	Rohde & Schwarz	ESVS30
Tuned Dipole Antenna	CDI	A100
Signal Generator	RFI	2023B

#### 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.

- 6. The transmitter shall then the 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 received, 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

Giant Electronics Limited

Motorola FV525

#### **Transmission Power**

Channel	Frequency	Effective Radiated Power		Limit	Margin
	(MHz)	(dBm)	(W)	(W)	(W)
1	462.5625	21.6	0.15	0.5	-0.35
2	462.5875	21.6	0.15	0.5	-0.35
3	462.6125	21.6	0.15	0.5	-0.35
4	462.6375	21.6	0.15	0.5	-0.35
5	462.6625	21.6	0.15	0.5	-0.35
6	462.6875	21.6	0.15	0.5	-0.35
7	462.7125	21.6	0.15	0.5	-0.35
8	467.5625	20.1	0.10	0.5	-0.40
9	467.5875	20.1	0.10	0.5	-0.40
10	467.6125	20.1	0.10	0.5	-0.40
11	467.6375	20.1	0.10	0.5	-0.40
12	467.6625	20.1	0.10	0.5	-0.40
13	467.6875	20.1	0.10	0.5	-0.40
14	467.7125	20.1	0.10	0.5	-0.40

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

Test Engineer: Kenneth C. C. Lam Date of Test: March 24-April 12, 2005

# **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

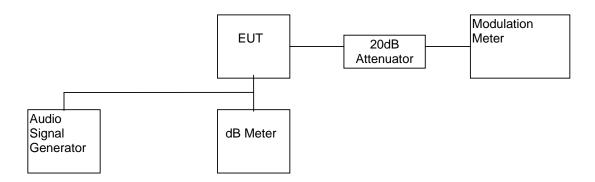
# 4.1 <u>Modulation Frequency Response</u>

#### A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	HP	HP8904A
AC Millivoltmeter	Leader	LMV-182A
20 dB RF Attenuator	Bird	8304-200-N
Communication Service Monitor	Marconi	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 99dBSPL 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

# Giant Electronics Limited Motorola FV525

# **Modulation Frequency Response**

Test Channel : 4 Input level = 99dBSPL

Modulation Frequency (Hz)	Modulation index (%)
300	0.17
400	0.19
500	0.28
600	0.33
700	0.65
800	0.76
900	0.69
1000	0.70
1250	0.71
1500	0.71
1750	0.81
2000	0.84
2250	0.67
2500	0.50
2750	0.48
3000	0.46
3125	0.45
3250	0.42
3500	0.34
4000	0.21
5000	0.09

Test Engineer: Kenneth C. C. Lam Date of Test: March 24-April 12, 2005

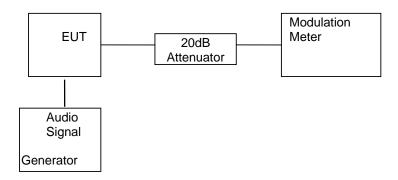
#### 4.2 Modulation Limiting Characteristics (Section 2.1047(b))

#### A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	HP	HP8904A
20 dB RF Attenuator	Bird	8304-200-N
Communication Service Monitor	Marconi	2945

#### **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 137dBSPL.
- 3) Record the maximum value of plus or minus peak frequency deviation.
- 4) Repeat the above procedure with frequency 1000Hz, 2500Hz & 3125Hz.

#### C. Test Result

Table 3

# Giant Electronics Limited Motorola FV525

# **Modulation Limiting Characteristics**

Test Channel: 4

Modulation	Peak Frequency	Peak Frequency	Peak Frequency	Peak Frequency
Input	Deviation (kHz)	Deviation (kHz)	Deviation (kHz)	Deviation (kHz)
(dBSPL)	at 500Hz	at 1000Hz	at 2500Hz	at 3125Hz
47	0.06	0.06	0.07	0.07
57	0.06	0.07	0.07	0.08
67	0.06	0.08	0.12	0.14
77	0.06	0.12	0.49	0.52
87	0.09	0.41	4.00	0.77
97	0.12	0.64	1.15	1.31
107	0.44	1.01	1.75	1.56
117	0.69	1.85	2.08	1.59
127	1.56	1.97	2.21	1.61
137	1.91	1.98	2.27	1.67

Test Engineer: Kenneth C. C. Lam Date of Test: March 24-April 12, 2005

# **EXHIBIT 5**

# **OCCUPIED BANDWIDTH**

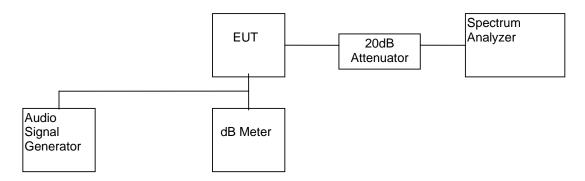
#### 5.0 Occupied Bandwidth (Section 95.633(c))

#### A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	HP	HP8904A
AC Millivoltmeter	Leader	LMV-182A
20 dB RF Attenuator	Bird	8304-200-N
Spectrum Analyzer	HP	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 2kHz/div scan and 10dB/div.

#### C. Test Result

The occupied Bandwidth is measured to be 10.4 kHz.

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

Test Engineer: Kenneth C. C. Lam Date of Test: March 24-April 12, 2005

# **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.

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

#### A. Test Equipment

Equipment	Brand Name	Model No.
Antenna	EMCO	A100, 3148, 3104C, 3115
Spectrum Analyzer	ADVANTEST	R3271
Test receiver	Rohde & Schwarz	ESVS30
RF Filter	Trilithic	3VF500/1000-5-50-CC

#### **B.** Testing Procedure

Radiated emission measurements were performed according to the procedures in ANSI C63.4(2001). 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: config photos.doc

#### C. Test Result

# Giant Electronics Limited Motorola FV525

# 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)

	Unwanted emission	
Region	Channel 4 Channel 11	
CARRIER ±6.25kHz to ±12.5kHz	<25dB	<25dB
CARRIER ±12.5kHz to ±31.25kHz	<35dB	<35dB

Table 4(b): Channel 4

Frequency	Effective Radiated Power	Transmission Power	Attenuation	Limit	Margin
(MHz)	(dBm)	(dBm)	(dB)	(dB)	(dB)
231.319	-40.6	21.6	62.2	34.6	-27.6
693.956	-46.0	21.6	67.6	34.6	-33.0
925.274	-32.0	21.6	53.6	34.6	-19.0
1156.592	-36.9	21.6	58.5	34.6	-23.9
1387.911	-25.6	21.6	47.2	34.6	-12.6
1619.229	-33.9	21.6	55.5	34.6	-20.9
1850.548	-36.2	21.6	57.8	34.6	-23.2
2081.866	-43.7	21.6	65.3	34.6	-30.7
2313.185	-35.8	21.6	57.4	34.6	-22.8
2544.503	-39.8	21.6	61.4	34.6	-26.8
2775.822	-29.9	21.6	51.5	34.6	-16.9

Remark: 1. Transmission power is 21.6 dBm or -8.4 dB(W).

- 2. According to Section 95.635(b7), the unwanted emission should be attenuated below TP by at least 43 + 10 log<sub>10</sub> (TP) dB or 34.6 dB.
- 3. The test is performed according to ANSI/TIA/EIA-603-A-2001.

Test Engineer: Kenneth C. C. Lam Date of Test: March 24-April 12, 2005

Table 4(b): Channel 11

Frequency	Effective Radiated Power	Transmission Power	Attenuation	Limit	Margin
(MHz)	(dBm)	(dBm)	(dB)	(dB)	(dB)
233.819	-46.5	20.1	66.6	33.1	-33.5
701.465	-43.8	20.1	63.9	33.1	-30.8
935.645	-32.8	20.1	52.9	33.1	-19.8
1169.102	-41.5	20.1	61.6	33.1	-28.5
1402.925	-31.9	20.1	52.0	33.1	-18.9
1636.730	-36.9	20.1	57.0	33.1	-23.9
1870.550	-35.0	20.1	55.1	33.1	-22.0
2338.182	-41.6	20.1	61.7	33.1	-28.6
2572.055	-42.8	20.1	62.9	33.1	-29.8
2805.848	-51.5	20.1	71.6	33.1	-38.5

Remark: 1. Transmission power is 20.1 dBm or -9.9 dB(W).

- 2. According to Section 95.635(b7), the unwanted emission should be attenuated below TP by at least 43 + 10 log<sub>10</sub> (TP) dB or 33.1 dB.
- 3. The test is performed according to ANSI/TIA/EIA-603-A-2001.

Test Engineer: Kenneth C. C. Lam Date of Test: March 24-April 12, 2005

# 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.

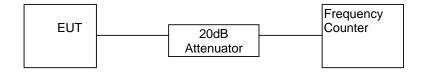
#### 7.1 Frequency Tolerance (Section 95.627)

# A. Test Equipment

Equipment	Brand Name	Model No.
20 dB RF Attenuator	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

# Giant Electronics Limited Motorola FV525

# **Frequency Tolerance**

Channel	Frequency	Measured	Tolerance
	(MHz)	Frequency (MHz)	(%)
1	462.5625	462.56234	-0.000035
2	462.5875	462.58732	-0.000039
3	462.6125	462.61227	-0.000050
4	462.6375	462.63723	-0.000058
5	462.6625	462.66218	-0.000069
6	462.6875	462.68716	-0.000073
7	462.7125	462.71211	-0.000084
8	467.5625	467.56209	-0.000088
9	467.5875	467.58707	-0.000092
10	467.6125	467.61207	-0.000092
11	467.6375	467.63707	-0.000092
12	467.6625	467.66208	-0.000090
13	467.6875	467.68708	-0.000090
14	467.7125	467.71207	-0.000092

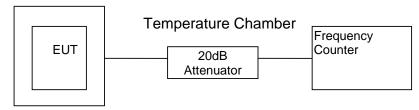
#### 7.2 Frequency Stability - Temperature (Section 2.1055)

#### A. Test Equipment

Equipment	Brand Name	Model No.
20 dB RF Attenuator	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)

#### Giant Electronics Limited Motorola FV525

# **Frequency Deviation with Temperature Variation**

Channel: 4

Temperature	Assigned	Measured	Deviation	*Frequency Tolerance with
	Frequency	Frequency		reference to its value at +20°C
(°C)	(MHz)	(MHz)	(%)	(ppm)
-20	462.6375	462.63773	0.000050	1.1
-10	462.6375	462.63777	0.000058	1.2
0	462.6375	462.63810	0.000130	1.9
10	462.6375	462.63806	0.000121	1.8
20	462.6375	462.63723	-0.000058	0.0
30	462.6375	462.63672	-0.000169	-1.1
40	462.6375	462.63643	-0.000231	-1.7
50	462.6375	462.63644	-0.000229	-1.7

<sup>\*</sup>Remark: This column is presentable for Industry Canada Certification only.

Test Engineer: Kenneth C. C. Lam Date of Test: March 24-April 12, 2005

#### C. Test Result

# Table 6(b)

# Giant Electronics Limited Motorola FV525

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

Channel: 11

Temperature	Assigned	Measured	Deviation	*Frequency Tolerance with
	Frequency	Frequency		reference to its value at +20°C
(°C)	(MHz)	(MHz)	(%)	(ppm)
-20	467.6375	467.63782	0.000068	1.6
-10	467.6375	467.63782	0.000068	1.6
0	467.6375	467.63818	0.000145	2.4
10	467.6375	467.63807	0.000122	2.1
20	467.6375	467.63707	-0.000092	0.0
30	467.6375	467.63671	-0.000169	-0.8
40	467.6375	467.63634	-0.000248	-1.6
50	467.6375	467.63643	-0.000229	-1.4

<sup>\*</sup>Remark: This column is presentable for Industry Canada Certification only.

Test Engineer: Kenneth C. C. Lam Date of Test: March 24-April 12, 2005

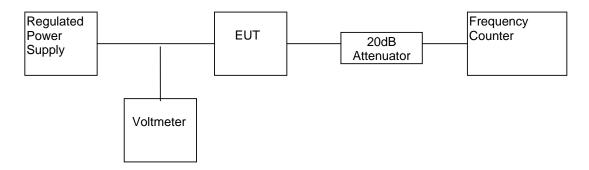
#### 7.3 Frequency Stability - Voltage (Section 2.995)

#### A. Test Equipment

Equipment	Brand Name	Model No.
Regulated Power Supply	PAD	30-35L
20 dB RF Attenuator	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 and 11 in MHz.

#### C. Test Result

#### Table 7

#### Giant Electronics Limited Motorola FV525

# **Frequency Deviation with Voltage Variation**

The manufacturer specified battery end point  $3.5\mbox{V}$ 

Channel	Frequency	Measured	Tolerance
	(MHz)	Frequency (MHz)	(%)
4	462.63750	462.63691	-0.000128
11	467.63750	467.63685	-0.000139

# **EXHIBIT 8**

### **TECHNICAL SPECIFICATIONS**

8.0 **Technical Specifications** 

### 8.1 Block Diagram

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

Figure 8.1 Block Diagram

#### 8.2 Schematic Diagram

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

Figure 8.2 Schematic Diagram

# **EXHIBIT 9**

### **PRODUCT LABELLING**

9.0 **Product Labelling** 

#### 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**

#### 10.0 Equipment Photographs

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

# **EXHIBIT 11**

### **INSTRUCTION MANUAL**

#### 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

# **EXHIBIT 12**

### **TUNE UP PROCEDURE**

### 12.0 Tune Up Procedure

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

# **EXHIBIT 13**

### **PART LIST**

#### 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 4.5VDC is 0.07A.

# **EXHIBIT 15**

# **RF EXPOSURE INFO**

### 15.0 **RF Exposure Info**

The RF Safety Information is shown on P.2-P.3 of User Manual.

# **EXHIBIT 16**

# **CONFIDENTIALITY REQUEST**

### 16.0 Confidentiality Request

For electronic filing, a confidentiality request is saved with filename: request.pdf