

TABLE OF CONTENTS LIST

APPLICANT: GLOBAL LINK CORPORATION LIMITED

FCC ID: QL2FRSFW14

TEST REPORT:

PAGE 1.....GENERAL INFORMATION & TECHNICAL DESCRIPTION
PAGE 2.....TECHNICAL DESCRIPTION CONTINUED & RF POWER OUTPUT
PAGE 3.....MODULATION CHARACTERISTICS
 AUDIO FREQUENCY RESPONSE GRAPH
PAGE 4.....MODULATION LIMITING GRAPH - 300 Hz
 MODULATION LIMITING GRAPH - 1000 Hz
PAGE 5.....MODULATION LIMITING GRAPH - 2500 Hz
 AUDIO LOW PASS FILTER GRAPH
PAGE 6.....OCCUPIED BANDWIDTH
PAGE 7.....OCCUPIED BANDWIDTH PLOT
PAGE 8.....SPURIOUS EMISSIONS AT ANTENNA TERMINALS
PAGE 9.....UNWANTED RADIATION - GMRS
PAGE 10.....UNWANTED RADIATION - FRS
PAGE 11.....METHOD OF MEASURING RADIATED SPURIOUS EMISSIONS
PAGE 12.....FREQUENCY STABILITY
PAGE 13-16..LIST OF TEST EQUIPMENT

EXHIBITS CONTAINING:

EXHIBIT 1.....FCC ID LABEL SAMPLE & LOCATION
EXHIBIT 2.....EXTERNAL PHOTOGRAPHS
EXHIBIT 3.....INTERNAL PHOTOGRAPHS
EXHIBIT 4.....BLOCK DIAGRAM
EXHIBIT 5.....SCHEMATICS
EXHIBIT 6.....USER'S MANUAL
EXHIBIT 7.....THEORY OF OPERATION
EXHIBIT 8.....ALIGNMENT PROCEDURE
EXHIBIT 9.....PARTS LIST
EXHIBIT 10.....TEST SET UP PHOTO

APPLICANT: GLOBAL LINK CORPORATION LIMITED

FCC ID: QL2FRSFW14

REPORT #: G/GlobalLink_QL2\752AKT3\752AKT3TestReport.doc

TABLE OF CONTENTS

GENERAL INFORMATION REQUIRED
FOR CERTIFICATION

2.1033(c)(1)(2) GLOBAL LINK CORPORATION LIMITED will manufacture the FCCID: QL2FRSFW14 GMRS/FRS COMBINATION TRANSCEIVER in quantity, for use under FCC RULES PART 95.

GLOBAL LINK CORPORATION LIMITED
ROOM 13B, CHINA MINMETALS TOWER
79 CHATHAM ROAD SOUTH
TSIM SHA TSUI, KOWLOON
HONG KONG

2.1033 (c) TECHNICAL DESCRIPTION

2.1033(c)(3) Instruction book. A draft copy of the instruction manual is included as EXHIBIT 6.

2.1033(c) (4) Type of Emission: 11KOF3E
95.631

Bn = 2M + 2DK
M = 3000
D = 2.5k
Bn = 2(3000)+2(2500) = 11.0k

GMRS Authorized Bandwidth 20.0 kHz

2.1033(c)(5) GMRS Frequency Range: 1. 462.5500 13. 462.7000
95.621 2. 462.5625 14. 462.7125
3. 462.5750 15. 462.7250
4. 462.5875 16. 467.5500
5. 462.6000 17. 467.5750
6. 462.6125 18. 467.6000
7. 462.6250 19. 467.6250
8. 462.6375 20. 467.6500
9. 462.6500 21. 467.6750
10. 462.6625 22. 467.7000
11. 462.6750 23. 467.7250
12. 462.6875

FRS Authorized Bandwidth 12.5kHz

2.1033(c)(5) FRS Frequency Range: 1. 462.5625 8. 467.5625
95.627 2. 462.5875 9. 467.5875
3. 462.6125 10. 467.6125
4. 462.6375 11. 467.6375
5. 462.6625 12. 467.6625
6. 462.6875 13. 467.6875
7. 462.7125 14. 467.7125 MHz

2.10311c)(6)(7) RF power is measured by the substitution method as 2.1046(a) outlined in TIA/EIA - 603. With a nominal battery voltage of 6.9 V, and the transmitter properly adjusted the RF output measures:

GMRS - .14 Watts ERP
FRS - .13 Watts ERP

APPLICANT: GLOBAL LINK CORPORATION LIMITED
FCC ID: QL2FRSFW14
REPORT #: G/GlobalLink_QL2\752AKT3\752AKT3TestReport.doc
Page 1 of 16

2.1033(c)(6)(7) Power Output shall not exceed 0.50 Watts effective radiated power. There can be no provisions for increasing the power or varying the power.
95.639
95.649

2.1033(c)(8) DC Voltages and Current into Final Amplifier:
FINAL AMPLIFIER ONLY

FOR LOW POWER SETTING INPUT POWER: (6.9V)(.210A) = 1.45 Watts
FOR HIGH POWER SETTING INPUT POWER: (6.9V)(.600A) = 4.14 Watts

2.1033(c)(9) Tune-up procedure. The tune-up procedure is included as EXHIBIT # 8.

2.1033(c)(10) Complete Circuit Diagrams: The circuit diagram is included as EXHIBIT 5 of this report. The block diagrams are included as EXHIBIT 4 of this report.

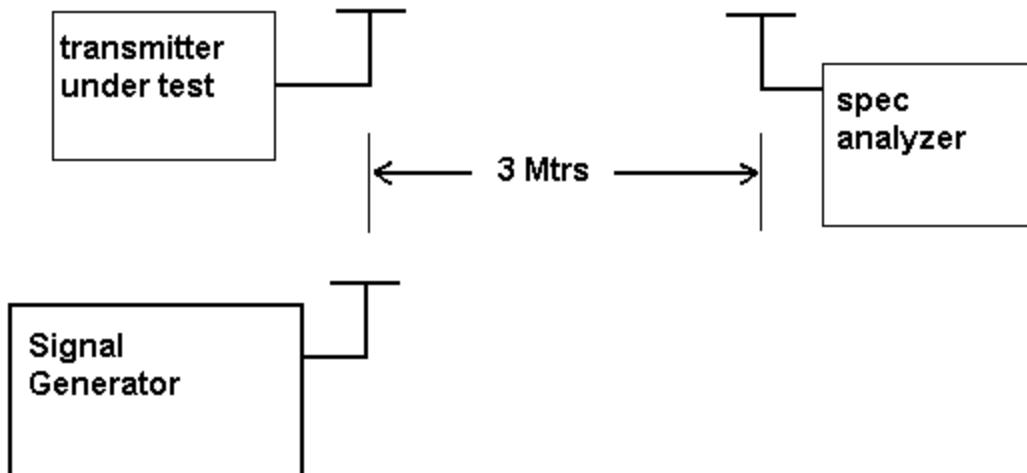
2.1033(c)(11) A photograph or a drawing of the equipment identification label is included as exhibit No. 1.

2.1033(c)(12) Photographs(8"X10") of the equipment of sufficient clarity to reveal equipment construction and layout, including meters, labels for controls, including any view under shields. See exhibits 2-3.

2.1033(c)(13) Digital modulation is not allowed.

2.1033(c)(14) The data required by 2.1046 through 2.1057 is submitted below.

2.1046(a) RF power output. The test procedure used was TIA/EIA-603.

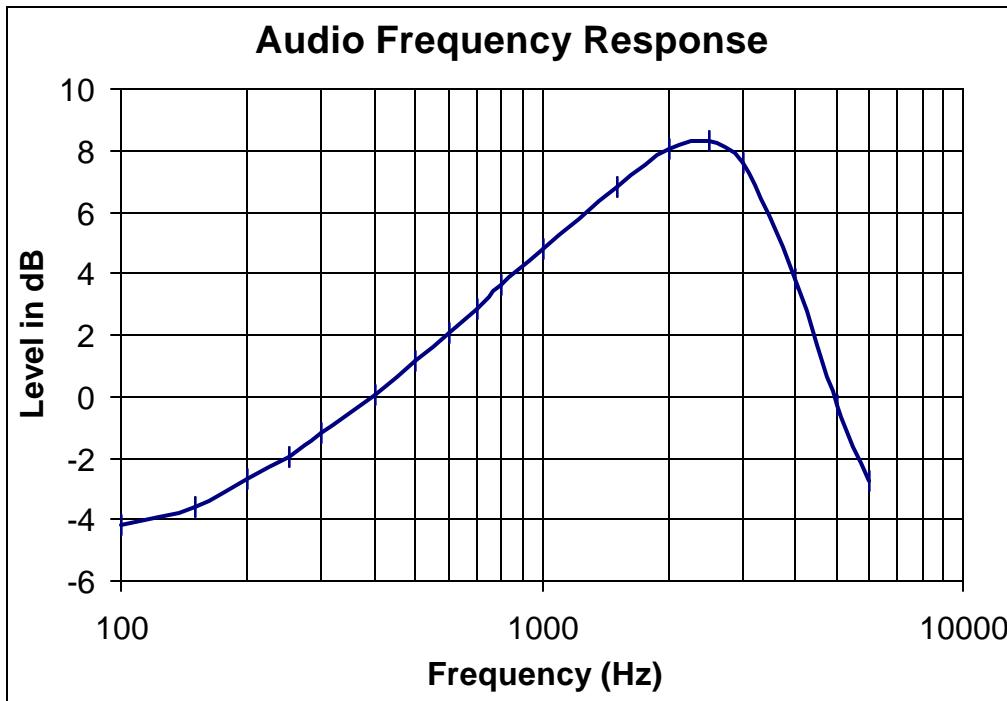


2.1047(a)(b)

Modulation characteristics:

AUDIO FREQUENCY RESPONSE

The audio frequency response was measured in accordance with TIA/EIA Specification 603. The audio frequency response curve is shown on the next page. The audio signal was fed into a dummy microphone circuit and into the microphone connector. The input required to produce 30 percent modulation level was measured. See plot below.

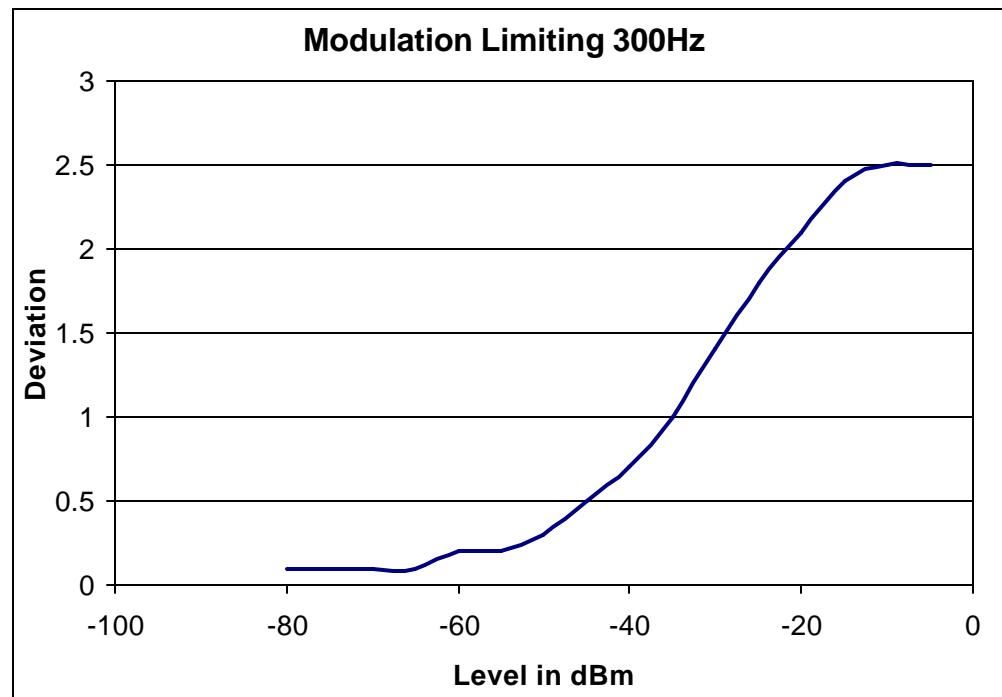


2.1047(b)

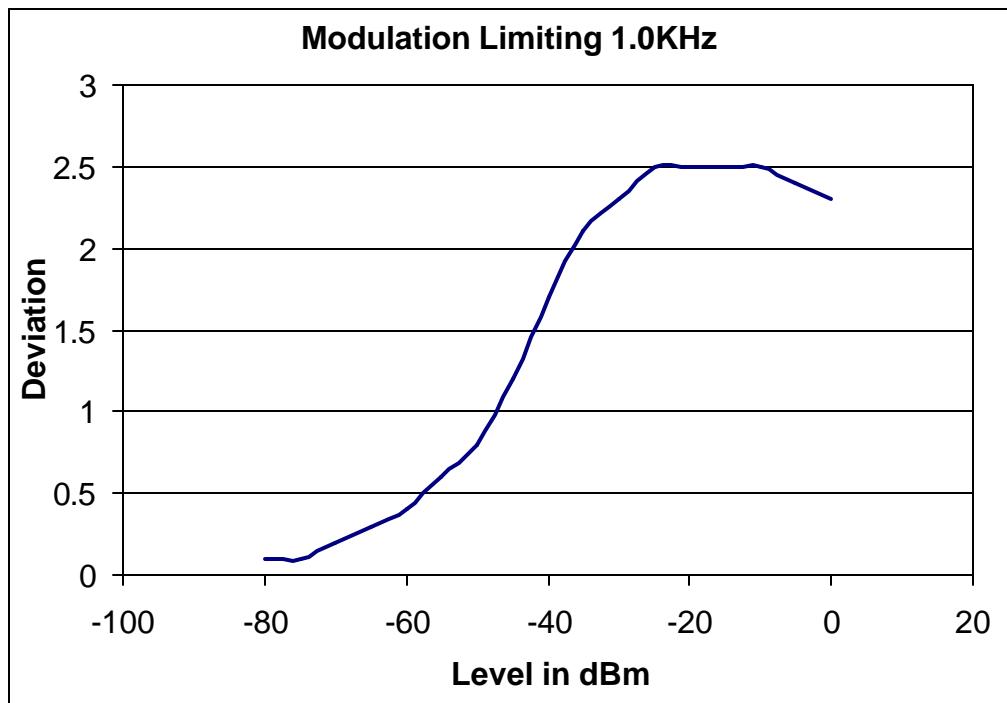
Audio input versus modulation

The audio input level needed for a particular percentage of modulation was measured in accordance with TIA/EIA Specification 603. The audio input curves versus modulation are on the following pages. Curves are provided for audio input frequencies of 300, 1000, and 2500 Hz. See the following plots.

MODULATION LIMITING PLOT - 300 Hz



MODULATION LIMITING PLOT - 1000 Hz



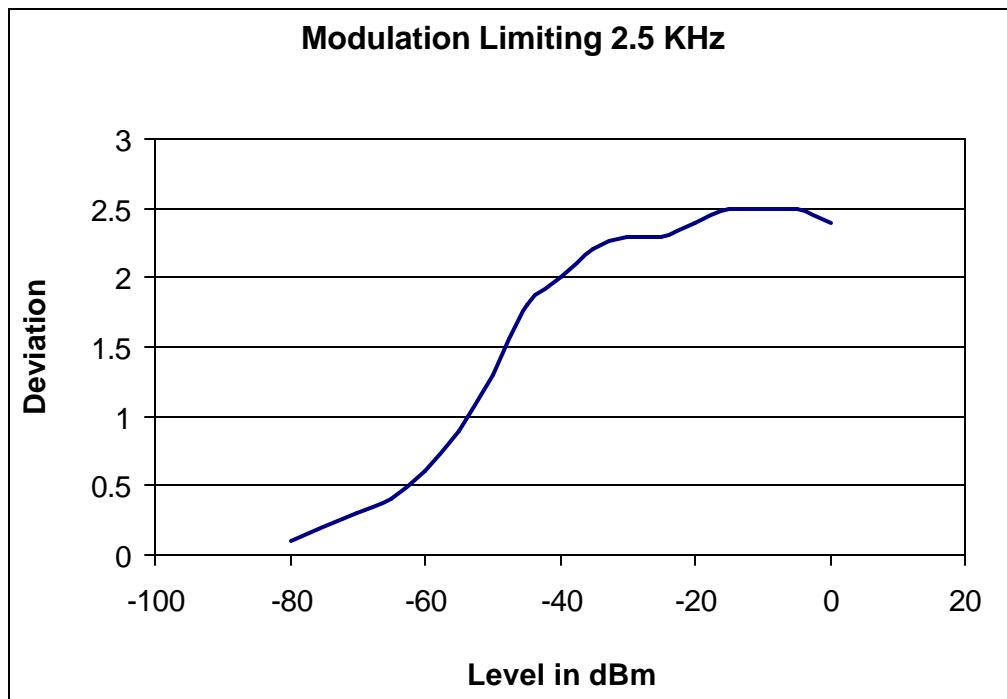
APPLICANT: GLOBAL LINK CORPORATION LIMITED

FCC ID: QL2FRSFW14

REPORT #: G/GlobalLink_QL2\752AKT3\752AKT3TestReport.doc

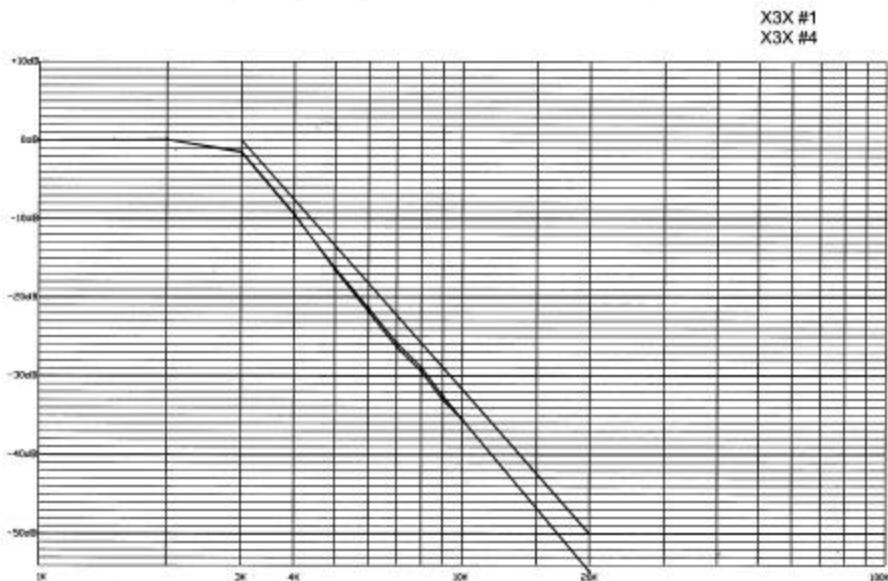
Page 4 of 16

MODULATION LIMITING PLOT - 2500 Hz



95.637 Post Limiter Filter Each GMRS transmitter, except a mobile station transmitter with a power of 2.5Watts or less, must be equipped with an audio low pass filter. At any frequency between 3 & 20 kHz the filter must have an attenuation of $60\log(f/3)$ greater than the attenuation at 1KHz. See below.

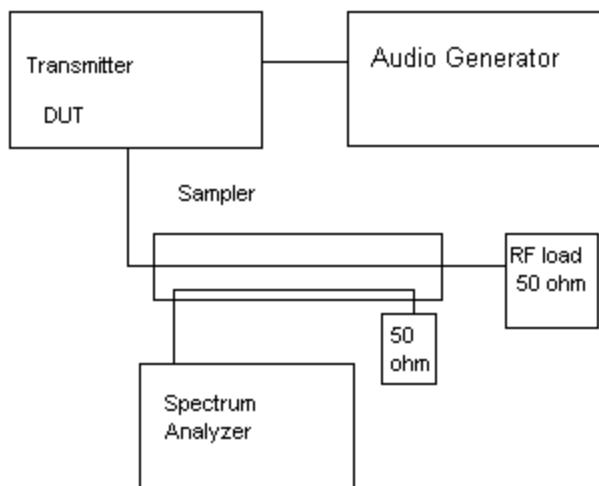
Frequency Response of the Audio Low Pass Filter



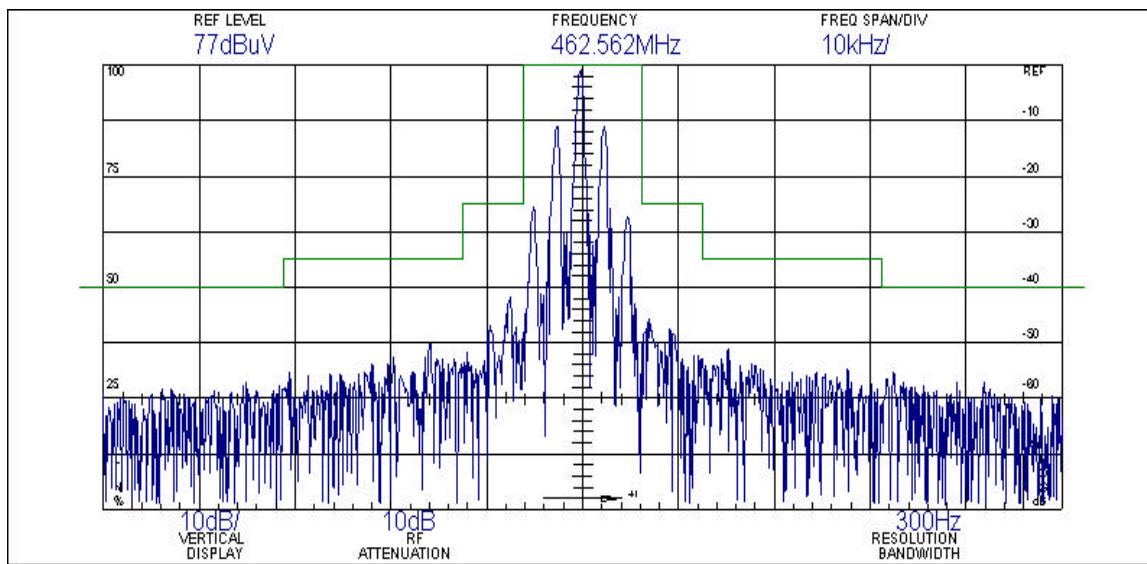
2.1049 Occupied bandwidth:
95.635(b)(1)(3)(7)

At least 25dB on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth. At least 35 dB on any frequency removed from the center of the authorized BW by more than 100% up to and including 250% of the authorized BW. At least $43 + \log_{10}(TP)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%. See the following plot.

Occupied BW Test Equipment Setup



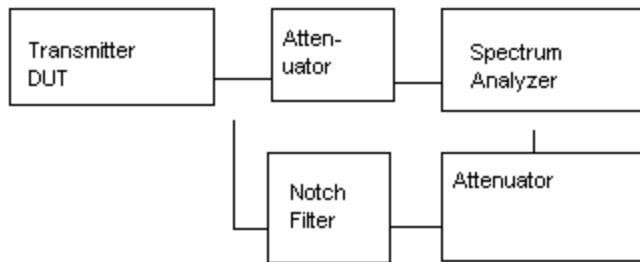
OCCUPIED BANDWIDTH PLOT



APPLICANT: GLOBAL LINK CORPORATION LIMITED
FCC ID: QL2FRSFW14
REPORT #: G/GlobalLink_QL2\752AKT3\752AKT3TestReport.doc
Page 7 of 16

2.1051 Spurious emissions at antenna terminals (conducted):
The following data shows the level of conducted spurious responses at the antenna terminal. The test procedure used was TIA/EIA 603 S2.2.13 with the exception that the emissions were recorded in dBc. The spectrum was scanned from 0.4 to at least the 10th harmonic of the fundamental.

Spurious Emissions at
Antenna Terminals



Method of Measuring Conducted Spurious Emissions

2.1051 Spurious emissions at the Antenna Terminals

NAME OF TEST: SPURIOUS EMISSIONS AT ANTENNA TERMINALS

2.1051 Not Applicable, no antenna terminal allowed.

2.1053
95.635(b)(7)

UNWANTED RADIATION:

The tabulated Data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the 10th harmonic of the fundamental. This test was conducted per ANSI C63.4-1992.

REQUIREMENTS: GMRS: $43 + 10\log(.14) = 34.46$ dB

TEST DATA (GMRS):

EMISSION FREQUENCY	ATTN dBm	MARGIN dBc	MARGIN dB
462.62	14.5	0.00	0.00
925.54	-46	60.07	25.65
1387.87	-49	63.11	28.70
1850.49	-52	65.88	31.46
2313.11	-52	65.57	31.15
2775.73	-55	69.28	34.86
3238.35	-54	67.71	33.29
3700.97	-54	67.68	33.26
4163.60	-50	63.90	29.48
4626.22	-49	62.82	28.41

METHOD OF MEASUREMENT: The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA STANDARD 603 using the substitution method. Measurements were made at the open field test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

2.1053
95.635(b)(7)

UNWANTED RADIATION:

The tabulated Data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the 10th harmonic of the fundamental. This test was conducted per ANSI C63.4-1992.

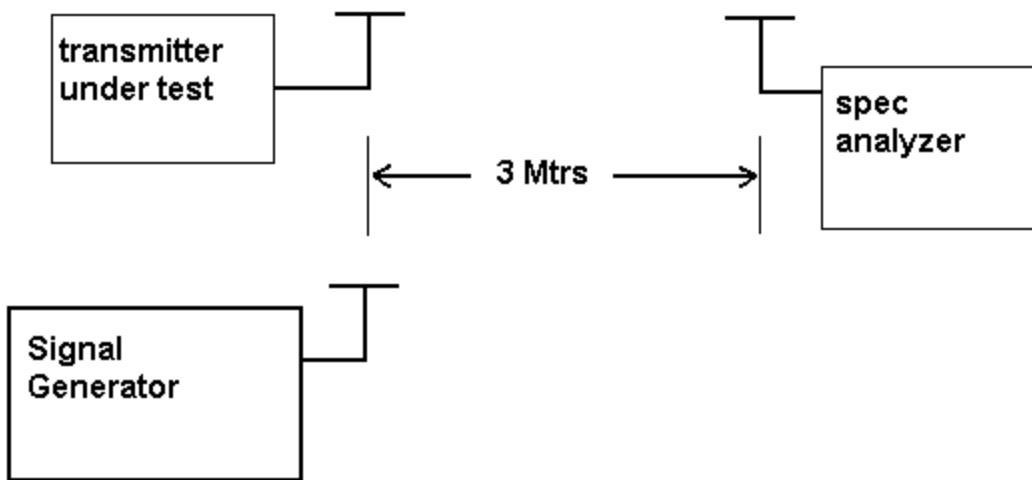
REQUIREMENTS: FRS: $43 + 10\log(.13) = 34.14$ dB

TEST DATA (FRS):

EMISSION FREQUENCY	ATTN dBm	ATTN dBc	MARGIN dB
467.63	14.5	0.00	0.00
935.26	-43	57.57	23.58
1402.89	-46	60.95	26.97
1870.51	-48	62.35	28.36
2338.14	-51	65.41	31.42
2805.77	-49	63.73	29.74
3273.40	-50	64.75	30.76
3741.03	-48	62.62	28.63
4208.66	-47	61.73	27.74
4676.29	-45	58.92	24.93

METHOD OF MEASUREMENT: The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA STANDARD 603 using the substitution method. Measurements were made at the open field test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

Method of Measuring Radiated Spurious Emissions



Equipment placed 80 cm above ground
on a rotatable platform.

* Appropriate antenna raised from 1 to 4 M.

2.1055
95.621(b)

Frequency stability:

Temperature and voltage tests were performed to verify that the frequency remains within the 0.0005%, 5 ppm specification limit. The test was conducted as follows: The transmitter was placed in the temperature chamber at 25 degrees C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which four frequency readings were recorded at 15 second intervals. The worse case number was taken for temperature plotting. The assigned channel frequency was considered to be the reference frequency. The temperature was then reduced to -30 degrees C after which the transmitter was again allowed to stabilize for one hour. The transmitter was keyed ON for one minute, and again frequency readings were noted at 15 second intervals. The worst case number was recorded for temperature plotting. This procedure was repeated in 10 degree increments up to + 50 degrees C.

Readings were also taken at battery end point.

MEASUREMENT DATA:

Assigned Frequency (Ref. Frequency): 462.6375

TEMPERATURE C	FREQUENCY MHZ	PPM
REFERENCE_____	462.637 5	00.00
-30C_____	462.636 83	-1.45
-20C_____	462.638 18	1.47
-10C_____	462.638 6	2.38
0C_____	462.638 49	2.14
10C_____	462.638 05	1.19
20C_____	462.637 57	0.15
30C_____	462.637 26	-0.52
40C_____	462.637 13	-0.80
50C_____	462.637 41	-0.19

	DATA	VOLTS	PPM
BATTERY END POINT	462.637 31	6.9	-0.41

Note: This EUT meets the frequency stability requirement for a FRS: +/- 2.5ppm over temp range of -20 degrees C to +50 degrees C. It also meets the GMRS frequency stability requirements: +/- 5ppm over the temp range -30 degrees C to +50 degrees C.

EMC Equipment List

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
X	3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/13/06
	3/10-Meter OATS	TEI	N/A	N/A	Listed 3/26/01	3/26/04
	Receiver, Beige Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 8/31/01	8/31/03
	RF Preselector	HP	85685A	3221A01400	CAL 8/31/01	8/31/03
	Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 8/31/01	8/31/03
X	Receiver, Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/15/03	4/15/05
X	RF Preselector	HP	85685A	2926A00983	CAL 4/15/03	4/15/05
X	Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/15/03	4/15/05
	Receiver, Silver/Grey Tower Spectrum Analyzer	HP	8566B Opt 462	3552A22064 3638A08608	CAL 10/14/02	10/14/04
	RF Preselector	HP	85685A	2620A00294	CAL 10/14/02	10/14/04
	Quasi-Peak Adapter	HP	85650A	3303A01844	CAL 10/14/02	10/14/04
	Preamplifier	HP	8449B	3008A01075	CHAR 1/28/02	1/28/04
X	Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/26/01	4/26/03
	Biconnical Antenna	Eaton	94455-1	1096	CAL 10/1/01	10/1/03
	Biconnical Antenna	Eaton	94455-1	1057	CAL 3/18/03	3/18/05
	BiconiLog Antenna	EMCO	3143	9409-1043		
X	Log-Periodic Antenna	Electro-Metrics	LPA-25	1122	CAL 10/2/01	10/2/03
	Log-Periodic Antenna	Electro-Metrics	EM-6950	632	CHAR 10/15/01	10/15/03
	Log-Periodic Antenna	Electro-Metrics	LPA-30	409	CAL 3/4/03	3/4/05
	Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	152	CAL 3/21/01	3/21/04
	Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	153	CAL 9/26/02	9/26/05

APPLICANT: GLOBAL LINK CORPORATION LIMITED

FCC ID: QL2FRSFW14

REPORT #: G/GlobalLink_QL2\752AKT3\752AKT3TestReport.doc

DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUe DATE or STATUS
Double-Ridged Horn Antenna	Electro-Metrics	RGA -180	2319	CAL 2/17/03	2/17/05
Horn Antenna	Electro-Metrics	EM-6961	6246	CAL 3/31/03	3/31/05
Horn Antenna	ATM	19-443-6R	None	No Cal Required	
Passive Loop Antenna	EMC Test Systems	EMCO 6512	9706-1211	CHAR 7/10/01	7/10/03
Line Impedance Stabilization . . .	Electro-Metrics	ANS-25/2	2604	CAL 10/9/01	10/9/03
Line Impedance Stabilization . . .	Electro-Metrics	EM-7820	2682	CAL 3/12/03	3/12/05
Termaline Wattmeter	Bird Electronic Corporation	611	16405	CAL 5/25/99	5/25/01
Termaline Wattmeter	Bird Electronic Corporation	6104	1926	CHAR 12/12/01	12/12/03
Oscilloscope	Tektronix	2230	300572	CHAR 2/1/01	2/1/03
System One	Audio Precision	System One	SYS1-45868	CHAR 4/25/02	4/25/04
Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 1/22/02	1/22/04
AC Voltmeter	HP	400FL	2213A14499	CAL 10/9/01	10/9/03
AC Voltmeter	HP	400FL	2213A14261	CHAR 10/15/01	10/15/03
AC Voltmeter	HP	400FL	2213A14728	CHAR 10/15/01	10/15/03
X	Digital Multimeter	Fluke	77	CHAR 1/8/02	1/8/04
	Digital Multimeter	Fluke	77	CHAR 1/8/02	1/8/04
	Digital Multimeter	HP	E2377A	CHAR 1/8/02	1/8/04
	Multimeter	Fluke	FLUKE-77-3	CHAR 9/26/01	9/26/03
	Peak Power Meter	HP	8900C	CHAR 1/26/01	1/26/03
	Power Meter	HP	432A	CAL 4/15/03	4/15/05
	Power Meter And Sensor	Bird	4421-107 4022	CAL 4/16/03	4/16/05
	Power Sensor	HP	478A	CAL 4/15/03	4/15/05
	Digital Thermometer	Fluke	2166A	CAL 1/16/02	1/16/04
	Thermometer	Traulsen	SK-128	CHAR 1/22/02	1/22/04
	Thermometer	Extech	4028	CAL 3/7/03	3/7/05

APPLICANT: GLOBAL LINK CORPORATION LIMITED

FCC ID: QL2FRSFW14

REPORT #: G/GlobalLink_QL2\752AKT3\752AKT3TestReport.doc

DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUe DATE or STATUS
X	Hygro-Thermometer	Extech	445703	0602 CAL 10/4/02	10/4/04
	Frequency Counter	HP	5352B	2632A00165 CAL 11/28/01	11/28/03
	Frequency Counter	HP	5385A	2730A03025 CAL 3/7/03	3/7/05
	Power Sensor	Agilent Technologies	84811A	2551A02705 CHAR 1/26/01	1/26/03
	Service Monitor	IFR	FM/AM 500A	5182 CAL 11/22/00	11/22/02
	Comm. Serv. Monitor	IFR	FM/AM 1200S	6593 CAL 5/12/02	5/12/04
	Signal Generator	HP	8640B	2308A21464 CAL 2/15/02	2/15/04
	Sweep Generator	Wiltron	6648	101009 CAL 4/15/03	4/15/05
	Sweep Generator	Wiltron	6669M	007005 CAL 3/3/03	3/3/05
	Modulation Analyzer	HP	8901A	3435A06868 CAL 9/5/01	9/5/03
	Modulation Meter	Boonton	8220	10901AB CAL 4/15/03	4/15/05
	Near Field Probe	HP	HP11940A	2650A02748 CHAR 2/1/01	2/1/03
	BandReject Filter	Lorch Microwave	5BR4-2400/ 60-N	Z1 CHAR 3/2/01	3/2/03
	BandReject Filter	Lorch Microwave	6BR6-2442/ 300-N	Z1 CHAR 3/2/01	3/2/03
	BandReject Filter	Lorch Microwave	5BR4-10525/ 900-S	Z1 CHAR 3/2/01	3/2/03
	High Pass Filter	Microlab	HA-10N		CHAR 10/4/01
	High Pass Filter	Microlab	HA-20N		CHAR 2/7/03
	Audio Oscillator	HP	653A	832-00260 CHAR 3/1/01	3/1/03
	Frequency Counter	HP	5382A	1620A03535 CHAR 3/2/01	3/2/03
	Frequency Counter	HP	5385A	3242A07460 CAL 3/7/03	3/7/05
	Preamplifier	HP	8449B-H02	3008A00372 CHAR 3/4/01	3/4/03
	Amplifier	HP	11975A	2738A01969 CHAR 3/1/01	3/1/03
	Egg Timer	Unk			CHAR 8/31/01
	Measuring Tape, 20M	Kraftixx	0631-20		CHAR 2/1/02
	Measuring Tape, 7.5M	Kraftixx	7.5M PROFI		2/1/02
					2/1/04

APPLICANT: GLOBAL LINK CORPORATION LIMITED

FCC ID: QL2FRSFW14

REPORT #: G/GlobalLink_QL2\752AKT3\752AKT3TestReport.doc

DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
Coaxial Cable #51	Insulated Wire Inc.	NPS 2251-2880	Timco #51	CHAR 1/23/02	1/23/04
Coaxial Cable #64	Semflex Inc.	60637	Timco #64	CHAR 1/24/02	1/24/04
Coaxial Cable #65	General Cable Co.	E9917 RG233/U	Timco #65	CHAR 1/23/02	1/23/04
Coaxial Cable #106	Unknown	Unknown	Timco #106	CHAR 1/23/02	1/23/04

APPLICANT: GLOBAL LINK CORPORATION LIMITED
 FCC ID: QL2FRSFW14
 REPORT #: G/GlobalLink_QL2\752AKT3\752AKT3TestReport.doc
 Page 16 of 16