

TABLE OF CONTENTS LIST

APPLICANT: GLOBAL LINK CORPORATION LIMITED

FCC ID: QL2FRSFW34

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
PAGE 5.....	AUDIO LOW PASS FILTER GRAPH
PAGE 6.....	OCCUPIED BANDWIDTH
PAGE 7.....	OCCUPIED BANDWIDTH PLOT - GMRS
PAGE 8.....	OCCUPIED BANDWIDTH PLOT - FRS
PAGE 9.....	OCCUPIED BANDWIDTH PLOT - CW
PAGE 10.....	SPURIOUS EMISSIONS AT ANTENNA TERMINALS
PAGE 11.....	UNWANTED RADIATION - GMRS
PAGE 12.....	UNWANTED RADIATION - FRS
PAGE 13.....	METHOD OF MEASURING RADIATED SPURIOUS EMISSIONS
PAGE 14.....	FREQUENCY STABILITY
PAGE 15-16...	LIST OF TEST EQUIPMENT

EXHIBITS CONTAINING:

EXHIBIT 1.....	LABEL SAMPLE & LOCATION
EXHIBIT 2.....	BLOCK DIAGRAM
EXHIBIT 3.....	SCHEMATICS
EXHIBIT 4.....	USERS MANUAL
EXHIBIT 5.....	EXTERNAL PHOTOGRAPHS
EXHIBIT 6.....	INTERNAL PHOTOGRAPHS
EXHIBIT 7.....	OPERATIONAL DESCRIPTION
EXHIBIT 8.....	ALIGNMENT PROCEDURE
EXHIBIT 9.....	PARTS LIST
EXHIBIT 10.....	TEST SET UP PHOTOGRAPH

APPLICANT: GLOBAL LINK CORPORATION LIMITED

FCC ID: QL2FRSFW34

REPORT #: G/GlobalLink_QL2\1066AKC3\1066AKC3TestReport.doc
TABLE OF CONTENTS

GENERAL INFORMATION REQUIRED
FOR CERTIFICATION

2.1033(c)(1)(2) GLOBAL LINK CORPORATION LIMITED will manufacture the
FCCID: QL2FRSFW34 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 4.

2.1033(c) (4) Type of Emission: 8K6F3E
95.631

Bn = 2M + 2DK
M = 2.5K
D = 1.8K
Bn = 2(2500)+2(1800) = 8.6K

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 3.7 V, and the transmitter properly
adjusted the RF output measures:

GMRS - .148 Watts
FRS - .117 Watts

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

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

FOR LOW POWER SETTING INPUT POWER: $(3.7V)(.210A) = .777$ Watts

FOR HIGH POWER SETTING INPUT POWER: $(3.7V)(.600A) = 2.22$ 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 3 of this report. The block
diagrams are included as EXHIBIT 2 of this
report.

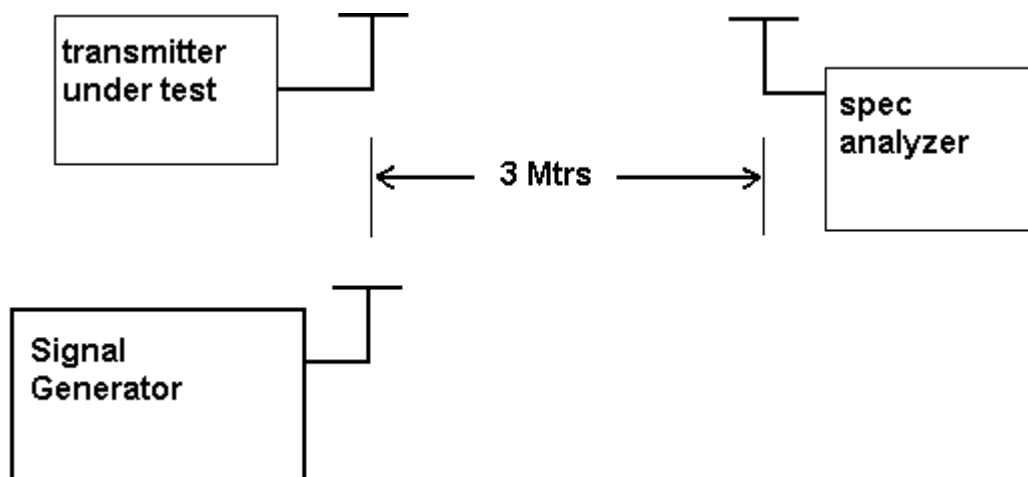
2.1033(c)(11) A photograph or a drawing of the equipment
identification label is included as exhibit No. 1.

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 5-6.

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 S2

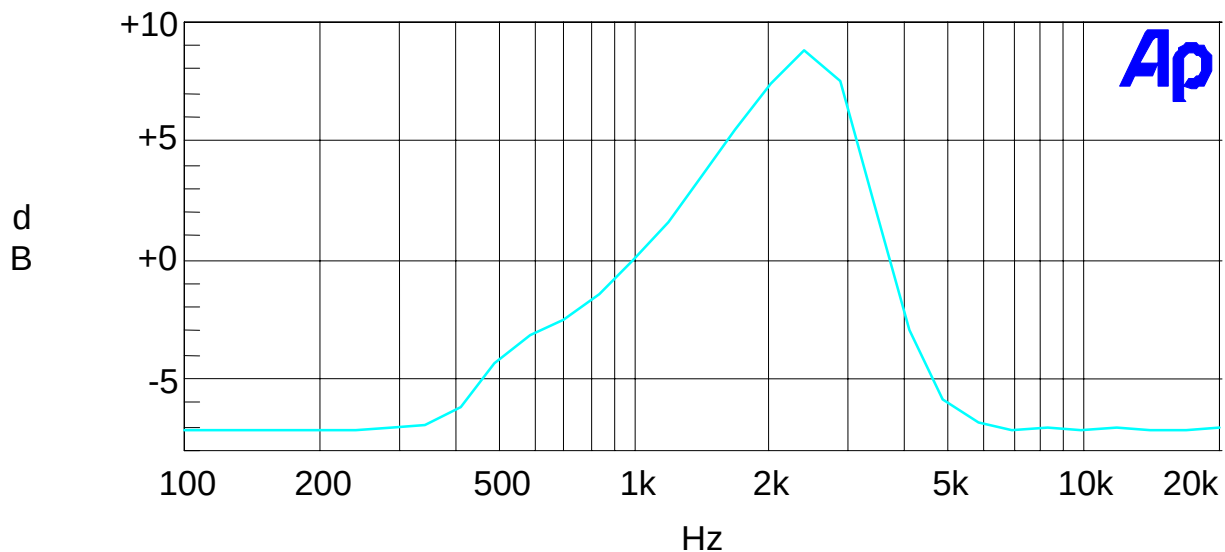


2.1047(a)(b) Modulation characteristics:

AUDIO FREQUENCY RESPONSE

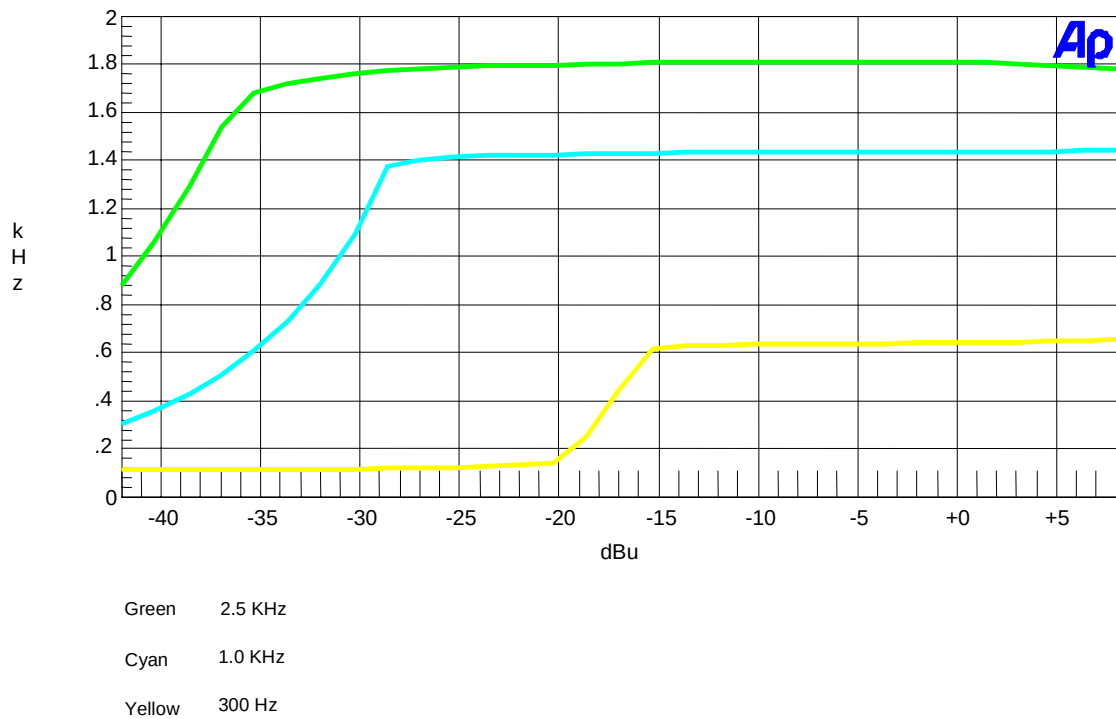
The audio frequency response was measured in accordance with TIA/EIA Specification 603. The audio frequency response curve is shown below. The audio signal was fed into a dummy microphone circuit and into the microphone connector. The input required to produce 30 percent modulation level was measured.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

Audio Frequency Response



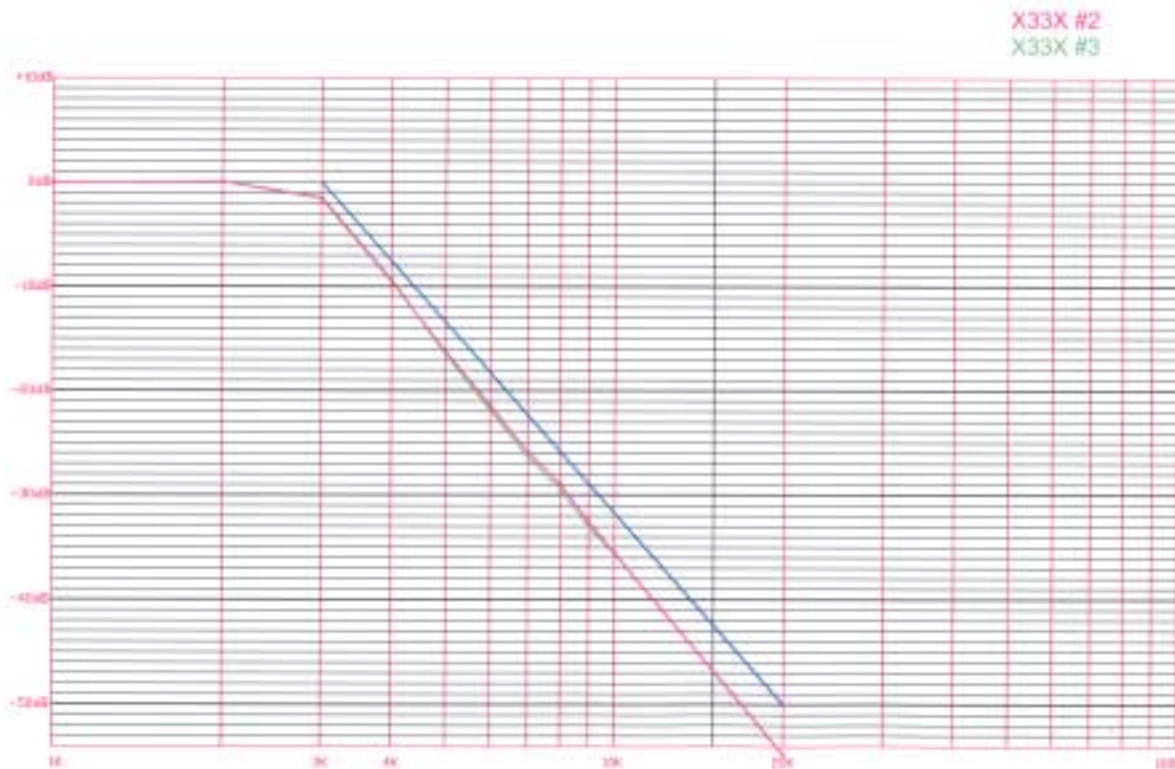
2.1047(b) Audio input versus modulation
The audio input level needed for a particular percentage of modulation was measured in accordance with TIA/EIA Specification 603. The audio input curves versus modulation are shown below. Curves are provided for audio input frequencies of 300, 1000, and 2500 Hz. See following plot.

MODULATION LIMITING PLOT : 2.5KHz, 1KHz, 300 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.

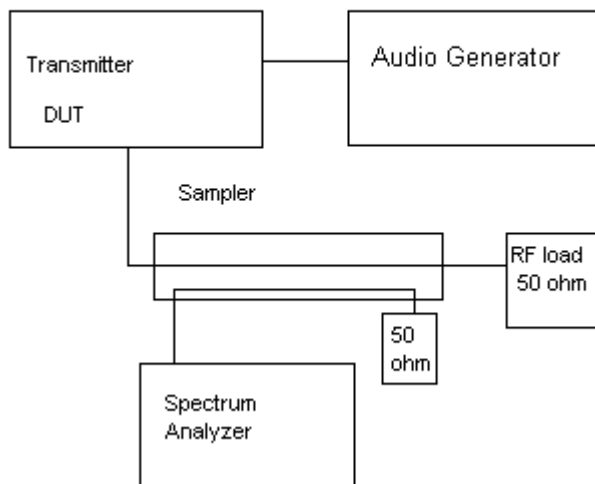
Frequency Response of the Audio Low Pass Filter



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 plots.

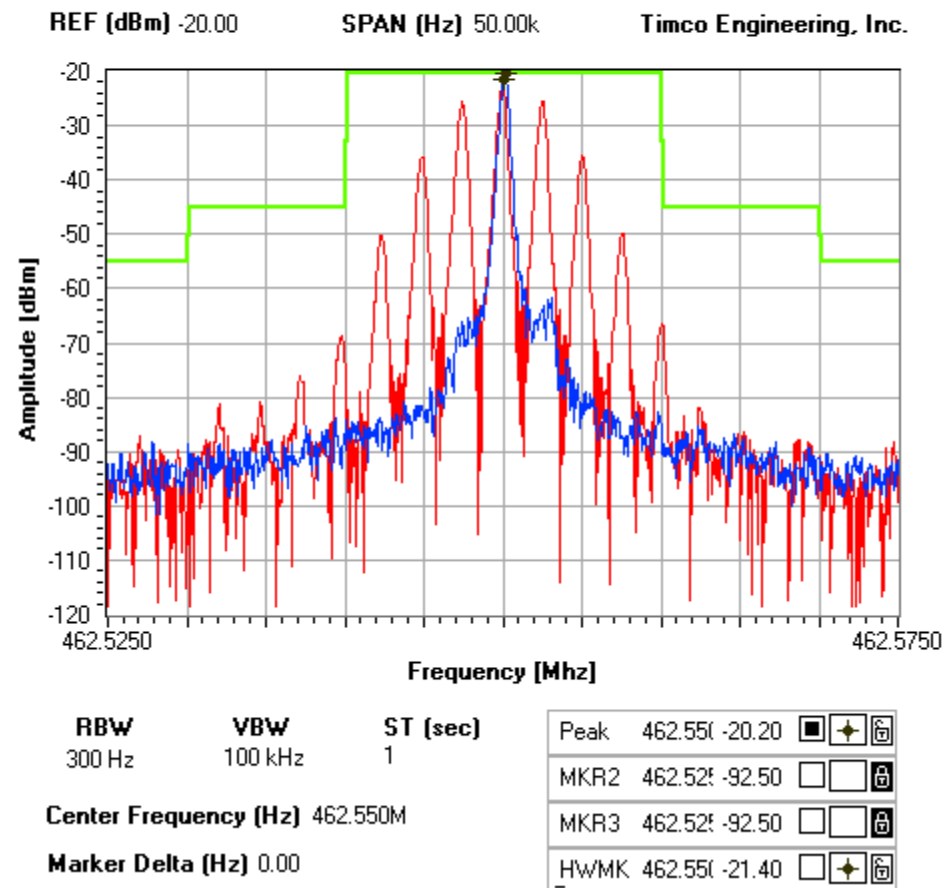
Occupied BW Test Equipment Setup



NOTES:

OCCUPIED BANDWIDTH PLOT _ GMRS _ CH15

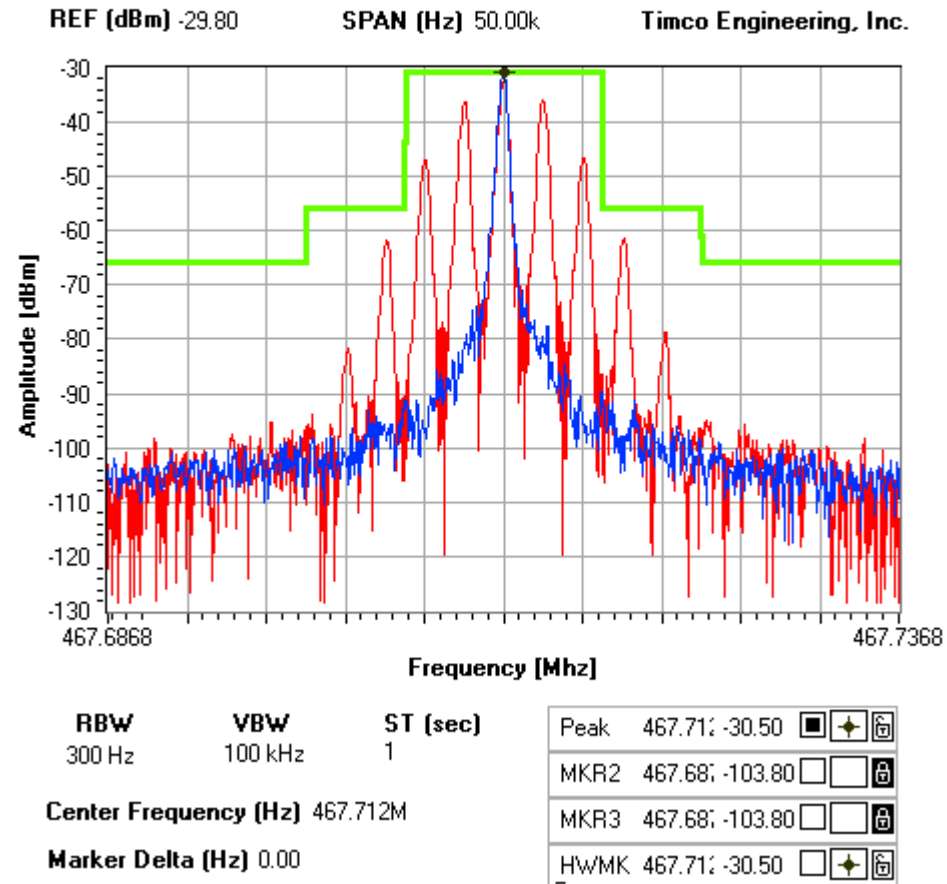
FCC 95.635 Mask (1) (3) (7)



NOTES:

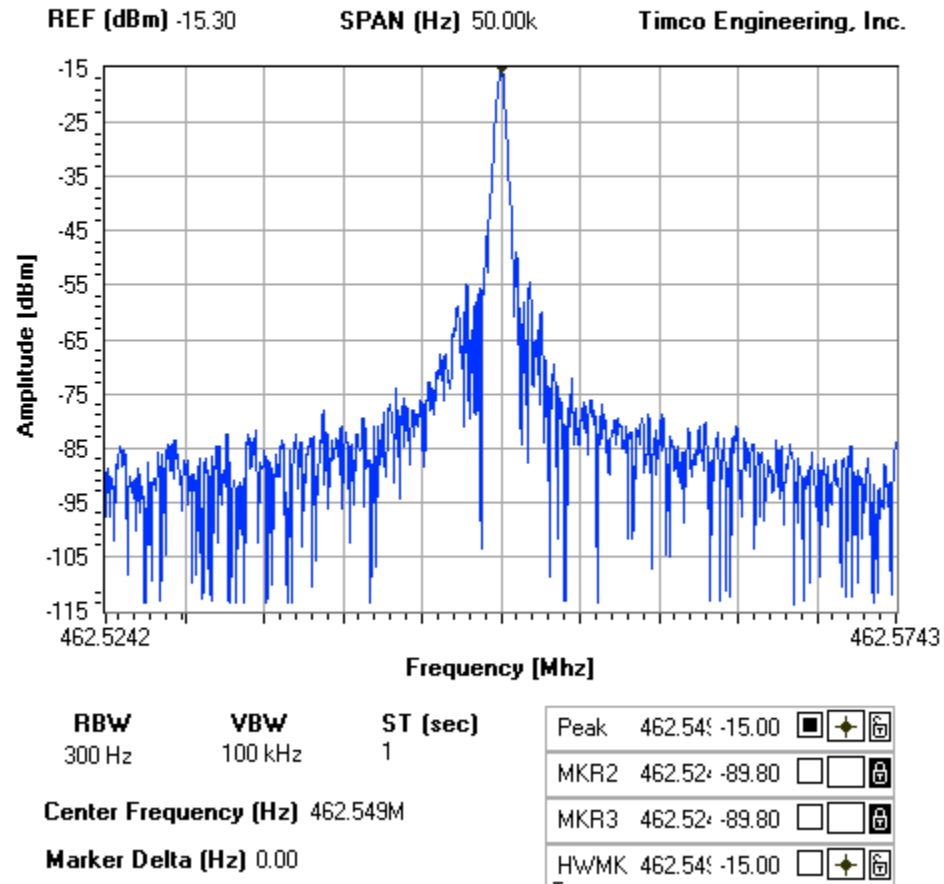
OCCUPIED BANDWIDTH PLOT - CH14 - FRS

FCC 95.635 Mask (1) (3) (7)



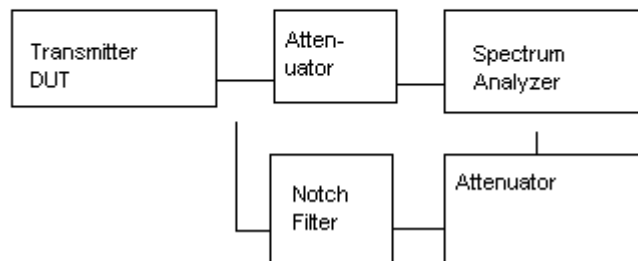
NOTES:

OCCUPIED BANDWIDTH CW PLOT



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: $43 + 10\log(.148) = 34.7$ dB

TEST DATA (GMRS):

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
462.55	V	21.7	0	0	0.00
925.30	H	-25.1	0	-1.32	48.12
1387.95	H	-12.9	1.1	-4.99	38.49
1850.60	H	-22.2	1.2	-5.24	47.94
2312.25	H	-23.2	1.25	-6.70	50.35
2775.90	V	-18.3	1.3	-7.20	45.90
3237.55	V	-26.6	1.4	-7.40	54.30
3700.20	V	-14.0	1.4	-7.50	41.80
4162.85	V	-8.3	1.45	-7.60	36.15
4625.50	V	-17.1	1.5	-8.30	45.60

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.

APPLICANT: GLOBAL LINK CORPORATION LIMITED
FCC ID: QL2FRSF34
REPORT #: G/GlobalLink_QL2\1066AKC3\1066AKC3TestReport.doc
Page 11 of 16

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: $43 + 10\log(.117) = 33.68$ dB

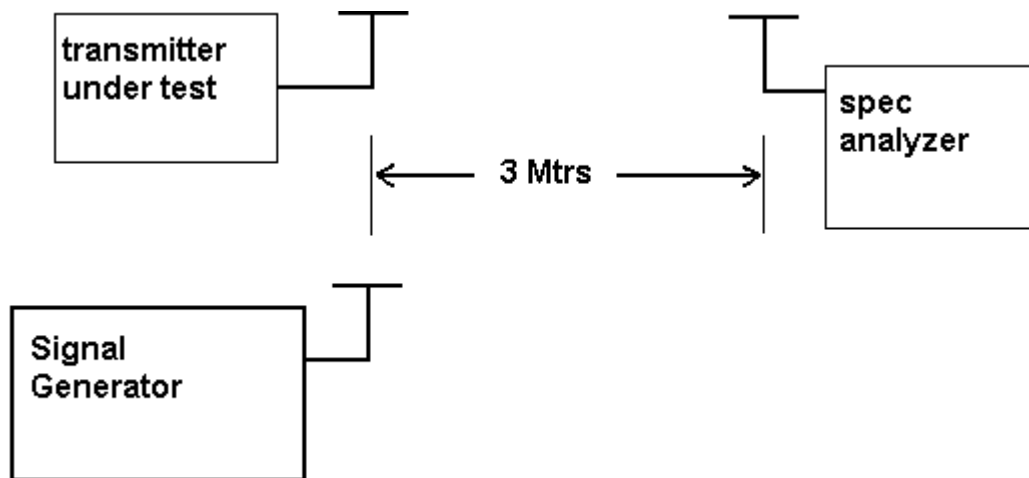
TEST DATA (FRS):

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
467.71	V	20.70	0	0	0
935.20	V	-27.30	0	-1.32	49.32
1402.80	H	-12.50	1.1	-4.99	37.09
1870.40	H	-25.70	1.2	-5.24	50.44
2338.00	H	-24.00	1.25	-6.7	50.15
2805.60	V	-17.40	1.3	-7.2	44.00
3273.20	V	-23.60	1.4	-7.4	50.30
3740.80	V	-17.20	1.4	-7.5	44.00
4208.40	V	-11.90	1.45	-7.6	38.75
4677.00	V	-16.60	1.5	-8.3	44.10

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.

APPLICANT: GLOBAL LINK CORPORATION LIMITED
FCC ID: QL2FRSFW34
REPORT #: G/GlobalLink_QL2\1066AKC3\1066AKC3TestReport.doc
Page 12 of 16

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 the end point of the battery voltage of 3.7 VDC.

MEASUREMENT DATA:

Assigned Frequency (Ref. Frequency): 462.6375

TEMPERATURE C	FREQUENCY MHz	PPM
REFERENCE_____	462.6375	00.00
-30C_____	462.6366	-1.95
-20C_____	462.63729	-0.45
-10C_____	462.63802	1.12
0C_____	462.63814	1.38
10C_____	462.63797	1.02
20C_____	462.63771	0.45
30C_____	462.63749	-0.02
40C_____	462.63764	0.30
50C_____	462.63758	0.17

BATT. %	BATT. DATA	VOLTS	BATT. PPM
-15%	462.63721	3.15	-0.63

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -1.95 to +1.38 ppm. The maximum frequency variation with voltage was -0.63 ppm.

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	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/26/01	3/26/04
3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/13/06
Biconnical Antenna	Eaton	94455-1	1057	CAL 3/18/03	3/18/05
Biconnical Antenna	Eaton	94455-1	1096	CAL 10/1/01	10/1/03
Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/26/01	4/26/03
Blue Tower Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/15/03	4/15/05
Blue Tower RF Preselector	HP	85685A	2926A00983	CAL 4/15/03	4/15/05
Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/15/03	4/15/05
LISN	Electro-Metrics	ANS-25/2	2604	CAL 10/9/01	10/9/03
LISN	Electro-Metrics	EM-7820	2682	CAL 3/12/03	3/12/05
Log-Periodic Antenna	Eaton	96005	1243	CAL 5/8/03	5/8/05
Log-Periodic Antenna	Electro-Metrics	EM-6950	632	CHAR 10/15/01	10/15/03
Log-Periodic Antenna	Electro-Metrics	LPA-25	1122	CAL 10/2/01	10/2/03
Log-Periodic Antenna	Electro-Metrics	LPA-30	409	CAL 3/4/03	3/4/05

APPLICANT: GLOBAL LINK CORPORATION LIMITED
 FCC ID: QL2FRSF34
 REPORT #: G/GlobalLink_QL2\1066AKC3\1066AKC3TestReport.doc
 Page 15 of 16

Modulation Analyzer	HP	8901A	3435A06868	CAL 9/5/01	9/5/03
Modulation Meter	Boonton	8220	10901AB	CAL 4/15/03	4/15/05
Oscilloscope	Tektronix	2230	300572	CAL 7/3/03	7/3/05
Silver Tower Preamplifier	HP	8449B	3008A01075	CHAR 1/28/02	1/28/04
Silver Tower Quasi-Peak Adapter	HP	85650A	3303A01844	CAL 10/14/02	10/14/04
Silver Tower RF Preselector	HP	85685A	2620A00294	CAL 10/14/02	10/14/04
Silver Tower Spectrum Analyzer	HP	8566B Opt 462	3552A22064 3638A08608	CAL 10/14/02	10/14/04
Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CHAR 3/4/01	3/4/03
Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 8/31/01	8/31/03
Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 8/31/01	8/31/03
Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 8/31/01	8/31/03