



**ADDENDUM TO CERTIFICATION
TEST REPORT FC99-029**

FOR THE

**TRA ASSY, TRX 1000S, FE, 9.4, 38GHZ [S1],
MODEL PTM 1000-38**

**FCC PART 101
COMPLIANCE**

DATE OF ISSUE: JANUARY 5, 2000

PREPARED FOR:

Waytrace, Inc.
1545 134th Ave NE
Bellevue, WA 98005

P.O. No: 8590
W.O. No: 71941

PREPARED BY:

Joyce Walker
CKC Laboratories, Inc.
5473A Clouds Rest
Mariposa, CA 95338

Date of test: August 9-13, 17-20,
& 23-25, 1999

Report No: FC99-029A

DOCUMENTATION CONTROL:

Tracy Phillips
Documentation Control Supervisor
CKC Laboratories, Inc.

APPROVED BY:

Dennis Ward
Director of Laboratories
CKC Laboratories, Inc.

This report contains a total of 4 pages and may be reproduced in full only. Partial reproduction may only be done with the written consent of CKC Laboratories, Inc.

**TABLE OF CONTENTS FOR
CERTIFICATION TEST REPORT**

Administrative Information	3
Reformatted Test Data	4

ADMINISTRATIVE INFORMATION

DATE OF TEST: Date of test: August 9-13, 17-20 & 23-25, 1999

PURPOSE AND SUMMARY OF ADDENDUM: To demonstrate the compliance of the TRA Assy, TRX 1000S, FE, 9.4, 38GHz [S1], Model PTM 1000-38, with the requirements for FCC Part 101 devices. The spurious emissions data originally contained on pages 18 and 19 have been reformatted in a format directly recognizable to the FCC's paragraph 101.111(a)(2)(ii) and (iii).

MANUFACTURER: Wavtrace, Inc.
13434 NE 16th St., Suite 140
Bellevue, WA 98005

REPRESENTATIVE: Mel Fuchikami

TEST LOCATION: CKC Laboratories, Inc.
22105 Wilson River Hwy
Tillamook, OR 97141

TEST PERSONNEL: Mike Wilkinson, Adam Ross & Clark Vitek

TEST METHOD: FCC Part 2 and Part 101

FREQUENCY RANGE TESTED: 9kHz – 200GHz

EQUIPMENT UNDER TEST:

TRA Assy, TRX 1000S, FE, 9.4, 38GHz [S1]

Manuf: Wavtrace, Inc.
Model: PTM 1000-38
Serial: 38-22 & 38-27
FCC ID: XXX-PTM1000-38 (pending)

Reformatted Test Data

Wavtrace
Report # FC99-029A

Spurious Emissions Recalculation
to limits of 101.111(a) (2) (ii) and (iii)

Parameters for Limit Calculations

P = Percent of Authorized Bandwidth (B)
Authorized Bandwidth (B) 50 MHz

Attenuation Requirements :
Output Power 41.687 mW (16.2 dBm)
At P=50% 40.3 dB paragraph 101.111 (a) (2) (ii)
Linearly increasing to P=250% 56 dB paragraph 101.111 (a) (2) (ii)
Beyond P=250% 29 dB paragraph 101.111 (a) (2) (iii)

Channel 0 Data									
Carrier Frequency 38603.75 MHz									
Frequency (MHz)	Limit Calculation		Required Attenuation (dB)	Spurious Emissions Measurement			Measured Attenuation (dB)	RESULT (Pass/Fail)	MARGIN (dB)
	P= Percent Removed (%)	Limit Paragraph		Measurement	Masurement	Mean Operating Power (dBm)			
				(dBuV)	(dBm)				
48332.73	19457.9600	101.111(a)(2)iii	29.20	91.7	-15.3	16.2	31.5	PASS	-2.30
47556.22	17904.9400	101.111(a)(2)iii	29.20	88	-19	16.2	35.2	PASS	-6.00
50954.67	24701.8400	101.111(a)(2)iii	29.20	85.3	-21.7	16.2	37.9	PASS	-8.70
51383.33	25559.1600	101.111(a)(2)iii	29.20	84.7	-22.3	16.2	38.5	PASS	-9.30
44933.33	12659.1600	101.111(a)(2)iii	29.20	80.3	-26.7	16.2	42.9	PASS	-13.70
99325	121442.5000	101.111(a)(2)iii	29.20	66	-41	16.2	57.2	PASS	-28.00
40081.04	2954.5800	101.111(a)(2)iii	29.20	63.5	-43.5	16.2	59.7	PASS	-30.50

Channel 84 Data									
Carrier Frequency 39303.78 MHz									
Frequency (MHz)	Limit Calculation		Required Attenuation (dB)	Spurious Emissions Measurement			Measured Attenuation (dB)	RESULT (Pass/Fail)	MARGIN (dB)
	P= Percent Removed (%)	Limit Paragraph		Measurement	Masurement	Mean Operating Power (dBm)			
				(dBuV)	(dBm)				
48430.91	18254.2600	101.111(a)(2)iii	29.20	87.2	-19.8	16.2	36	PASS	-6.80
49208	19808.4400	101.111(a)(2)iii	29.20	84.3	-22.7	16.2	38.9	PASS	-9.70
55394.4	32181.2400	101.111(a)(2)iii	29.20	84	-23	16.2	39.2	PASS	-10.00
43020	7432.4400	101.111(a)(2)iii	29.20	83	-24	16.2	40.2	PASS	-11.00
56283.07	33958.5800	101.111(a)(2)iii	29.20	82.3	-24.7	16.2	40.9	PASS	-11.70
59921.88	41236.2000	101.111(a)(2)iii	29.20	80.7	-26.3	16.2	42.5	PASS	-13.30

Channel 167 Data									
Carrier Frequency 39995.83 MHz									
Frequency (MHz)	Limit Calculation		Required Attenuation (dB)	Spurious Emissions Measurement			Measured Attenuation (dB)	RESULT (Pass/Fail)	MARGIN (dB)
	P= Percent Removed (%)	Limit Paragraph		Measurement	Masurement	Mean Operating Power (dBm)			
				(dBuV)	(dBm)				
50072.5	21537.4400	101.111(a)(2)iii	29.20	88.3	-18.7	16.2	34.9	PASS	-5.70
49295.85	19984.1400	101.111(a)(2)iii	29.20	86.3	-20.7	16.2	36.9	PASS	-7.70
56379.63	34151.7000	101.111(a)(2)iii	29.20	84.8	-22.2	16.2	38.4	PASS	-9.20
52800	26992.4400	101.111(a)(2)iii	29.20	83.7	-23.3	16.2	39.5	PASS	-10.30
57270.07	35932.5800	101.111(a)(2)iii	29.20	82.7	-24.3	16.2	40.5	PASS	-11.30
43766.66	8925.7600	101.111(a)(2)iii	29.20	81.8	-25.2	16.2	41.4	PASS	-12.20