RESPONSE TO ITEMS REQUESTED BY OET ON 10 November, 1999:

Re:	FCC ID GM3TRX7450		
Applicant:	Teklogix Inc		
Correspondence Ref. Number:	10606		
731 Confirmation Number:	EA95403		
Date of Original E-Mail:	11/10/1999		

1) Peak and average measurements above 1 GHz are required and were requested. Only average measurements were submitted. Please explain and correct accordingly.

ITEM #1: The Teklogix 900 MHz transmitter for which measurements were taken and submitted, is a small FM transceiver, which transfers codes via continuous phase FSK. Because of this, peak reading and average readings are nearly identical. Peak readings, when compared to the limit of 74 dBuv (54 dBuv plus 20 dB) were found to be greater than 20 dB below the limit, and were not reported. To further answer your query, an expanded signal list is supplied, with the peak values as measured with the HP8546A above 1 GHz included.

Date of Test:	September 8,9,29, 1999	Manufacturer:	Teklogix
Location:	L.S. Compliance, Inc.	Model No.:	Micro radio
	W66 N220 Commerce Court	_	
	Cedarburg, WI 53012	_	
Specifications:	Title 47CFR, FCC Part 15.249	Serial No.:	Pre-production
Distance:	3 meters, 1 meter	Configuration:	Continuous transmit
Equipment:	HP 8546A EMI Receiver	Detector(s) Used:	Quasi-peak, below 1 GHz
	EMCO 3115 Double Ridged Waveguide	_	Average, above 1 GHz
	EMCO 3146A Log Periodic	_	**= Peak above 1 GHz

The following table depicts the level of significant fundamental and harmonic emissions found:

Higher order harmonics were found to be below the noise floor of the receiving system:

Frequency (MHz)	Antenna Polarity	Height (meters)	Azimuth (0° - 360°)	Channel	EMI Meter Reading (dB µV/m)	15.249 Limit (dB μV/m)	Margin (dB)
902.63	V	1.0	216	0	92.5	94.0	1.5
903.92	V	1.0	83	6	89.0	94.0	5.0
925.76	V	1.0	85	8	92.1	94.0	1.9
927.26	V	1.0	85	15	90.8	94.0	3.2
1855	V	1.0	255	15	37.5	54.0	16.5
1855	Н	1.0	23	15	39.8	54.0	14.2
1805	Н	1.0	60	0	42.0	54.0	12.0
1855	V	1.0	255	15	**40.5	**74.0	33.5
1855	Н	1.0	23	15	**42.4	**74.0	31.6
1805	Н	1.0	60	0	**43.7	**74.0	30.3

Frequency (MHz)	Antenna Polarity	Height (meters)	Azimuth (0° - 360°)	EMI Meter Reading (dB µV/m)	15.249 Limit (dB μV/m)	Margin (dB)
176.0	Н	1.3	0	34.4	44.0	9.6
208.0	Н	1.3	17	30.1	44.0	13.9
256.0	Н	1.0	169	32.7	46.0	13.3
288.0	Н	1.0	169	34.3	46.0	11.7
288.0	V	1.0	62	28.8	46.0	17.2
320.0	Н	1.4	306	37.3	46.0	8.7
432.0	Н	1.0	130	40.3	46.0	5.7
928.0	Н	1.2	200	39.3	46.0	6.7
2056.0	V	1.0	178	40.2	54.0	13.8
2552.0	V	1.0	193	38.8	54.0	15.2
2565.0	Н	1.0	104	37.1	54.0	16.9
2056.0	V	1.0	178	**43.6	**74.0	30.4
2552.0	V	1.0	193	**41.6	**74.0	32.4
2565.0	Н	1.0	104	**43.8	**74.0	30.2

The following table depicts the level of significant spurious emissions found:

Kenneth Boston EMC lab manager L. S. Compliance