

CONDUCTED EMISSIONS

Location #1 FCC Part 15 Class B

Client: E-Zone
Date : 10-Jun-98

File # 86076-1
Engr.: Norm Hansen

Rep : Don Lafont
System: E-Zone Tower Unit

Freq. (MHz)	Meas'd (dBuV)	LISN Factors (dB)	Cable Factors (dB)	Total Factors (dB)	Total (dBuV)	FCC Limit (dBuV)	Delta (dB)	Meas Type	Phase N,P1,P2,P3	HP/ R&S		Comments
								Ave QP Peak				
14.318	40.10	0.7	1.2	1.9	42.00	48.0	-6.00	QP	p1	R&S	QP	Run 3-Tune to frequency 902.1MHz
14.318	39.90	0.7	1.2	1.9	41.80	48.0	-6.20	QP	n	R&S	QP	Run 3-Tune to frequency 902.1MHz
24.576	37.50	2.0	1.3	3.3	40.80	48.0	-7.20	QP	p1	R&S	QP	Run 3-Tune to frequency 902.1MHz
6.494	39.70	0.3	0.7	1.0	40.70	48.0	-7.30	QP	n	R&S	QP	Run 3-Tune to frequency 914.0MHz
6.861	39.60	0.3	0.8	1.1	40.70	48.0	-7.30	QP	n	R&S	QP	Run 3-Tune to frequency 914.0MHz
6.805	39.30	0.3	0.8	1.1	40.40	48.0	-7.60	QP	n	R&S	QP	Run 3-Tune to frequency 927.5MHz
6.861	39.20	0.3	0.8	1.1	40.30	48.0	-7.70	QP	p1	R&S	QP	Run 3-Tune to frequency 914.0MHz
6.602	38.70	0.3	0.8	1.1	39.80	48.0	-8.20	QP	n	R&S	QP	Run 3-Tune to frequency 902.1MHz
6.623	38.30	0.3	0.8	1.1	39.40	48.0	-8.60	QP	p1	R&S	QP	Run 3-Tune to frequency 902.1MHz

RADIATED EMISSIONS
Location #1 FCC Part 15 Class B

Client: E-Zone

File # 86076-1

Rep. : Don Lafont

Date : 10-Jun-98

Engr.: Norm Hansen

Syste E-Zone Tower Unit

m:

Freq. (MHz)	Meas'd (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Total Factors (dBuV/m)	Total (dBuV/m)	3 Meter FCC Limit (dBuV/m)	Delta (dB)	Azimuth (degree)	Height (m)	Hor/ Vert	HP/ R&S	Meas Type	Comments
													Ave QP Peak	
902.100	77.8	27.1	7.5	23.6	4.0	81.80	94.0	-12.20	301	1.00	Vert	R&S	QP	Run 3.1-Tune to frequency 902.1MHz
902.100	75.0	27.1	7.5	23.6	4.0	79.00	94.0	-15.00	328	2.88	Hor/	R&S	QP	Run 3.1-Tune to frequency 902.1MHz
914.000	81.2	27.0	7.6	23.7	4.3	85.50	94.0	-8.50	0	1.00	Vert	R&S	QP	Run 2-Tune to frequency 914.0Mhz
914.000	79.3	27.0	7.6	23.7	4.3	83.60	94.0	-10.40	0	1.75	Hor/	R&S	QP	Run 2-Tune to frequency 914.0Mhz
927.500	82.8	27.0	7.6	23.8	4.4	87.20	94.0	-6.80	360	1.00	Vert	R&S	QP	Run 2.1-Tune to frequency 927.5Mhz
927.500	79.6	27.0	7.6	23.8	4.4	84.00	94.0	-10.00	360	1.00	Hor/	R&S	QP	Run 2.1-Tune to frequency 927.5Mhz
902.000	22.4	27.1	7.5	23.6	4.0	26.40	46.0	-19.60	339	1.00	Vert	R&S	QP	902.2 Mhz Side band are below noise floor of receiver.
928.000	23.5	27.0	7.6	23.8	4.4	27.90	46.0	-18.10	320	1.00	Vert	R&S	QP	928.0MHz side band are below noise floor of receiver

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Engr.: Norm Hansen

Rep. : Don LaFont
Syste E-Zone Tower Unit
m:

Freq (MHz)	Meas'd (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Total Factors (dBuV/m)	Total (dBuV/m)	3 Meter FCC Limit (dBuV/m)	Delta (dB)	Azimuth (degree)	Height (m)	Hor/ Vert	HP/ R&S	Meas Type Ave Peak	Comments
1804.480	31.6	26.5	3.4	27.3	4.2	35.8	54.0	-18.2	343	2.50	Hor/	HP/	Peak	Tune to frequency 902.2Mhz
1804.500	34.8	26.5	3.4	27.3	4.2	39.0	54.0	-15.0	343	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz
2706.586	39.8	27.7	4.1	29.5	5.9	45.7	54.0	-8.3	332	2.00	Hor/	HP/	Peak	Tune to frequency 902.2Mhz
2706.604	38.1	27.7	4.1	29.5	5.9	44.0	54.0	-10.0	354	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz
3608.782	34.6	28.3	4.7	30.4	6.8	41.4	54.0	-12.6	325	1.75	Hor/	HP/	Peak	Tune to frequency 902.2Mhz
3608.786	35.4	28.3	4.7	30.4	6.8	42.2	54.0	-11.8	334	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz
4510.984	31.1	29.3	5.9	32.2	8.8	39.9	54.0	-14.1	360	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz
4510.988	31.6	29.3	5.9	32.2	8.8	40.4	54.0	-13.6	360	1.00	Hor/	HP/	Peak	Tune to frequency 902.2Mhz
5413.184	35.1	29.0	6.0	34.0	10.9	46.0	54.0	-8.0	349	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz
5413.184	30.6	29.0	6.0	34.0	10.9	41.5	54.0	-12.5	326	1.00	Hor/	HP/	Peak	Tune to frequency 902.2Mhz
8119.600	26.6	28.5	8.8	37.5	17.9	44.5	54.0	-9.5	337	2.00	Hor/	HP/	Ave	Tune to frequency 902.2Mhz
8119.680	34.9	28.5	8.8	37.5	17.9	52.8	54.0	-1.2	337	2.00	Hor/	HP/	Peak	Tune to frequency 902.2Mhz
8119.820	29.6	28.5	8.8	37.5	17.9	47.4	54.0	-6.6	323	1.00	Vert	HP/	Ave	Tune to frequency 902.2Mhz
8119.820	37.5	28.5	8.8	37.5	17.9	55.4	54.0	1.4	323	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz
6315.320	27.7	30.3	7.2	35.7	12.6	40.4	54.0	-13.6	314	1.75	Hor/	HP/	Ave	Tune to frequency 902.2Mhz-noise floor
6315.320	37.7	30.3	7.2	35.7	12.6	50.3	54.0	-3.7	349	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz-noise floor
6315.800	28.1	30.3	7.2	35.7	12.6	40.7	54.0	-13.3	349	1.00	Vert	HP/	Ave	Tune to frequency 902.2Mhz-noise floor
6315.800	36.6	30.3	7.2	35.7	12.6	49.2	54.0	-4.8	314	1.75	Hor/	HP/	Peak	Tune to frequency 902.2Mhz-noise floor
7217.600	35.8	28.9	7.6	37.0	15.8	51.6	54.0	-2.4	0	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz-noise

														floor
7217.600	36.9	28.9	7.6	37.0	15.8	52.7	54.0	-1.3	0	1.50	Hor/	HP/	Peak	Tune to frequency 902.2Mhz-noise floor
9022.000	25.9	27.6	11.4	37.3	21.2	47.1	54.0	-6.9	360	1.00	Vert	HP/	Ave	Tune to frequency 902.2Mhz-noise floor
9022.000	26.2	27.6	11.4	37.3	21.2	47.3	54.0	-6.7	360	2.00	Hor/	HP/	Ave	Tune to frequency 902.2Mhz-noise floor
9022.000	35.1	27.6	11.4	37.3	21.2	56.3	54.0	2.3	360	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz-noise floor
9022.000	35.9	27.6	11.4	37.3	21.2	57.1	54.0	3.1	360	2.00	Hor/	HP/	Peak	Tune to frequency 902.2Mhz-noise floor
9924.200	25.2	24.7	9.1	38.2	22.6	47.8	54.0	-6.2	360	1.00	Vert	HP/	Ave	Tune to frequency 902.2Mhz-noise floor
9924.200	24.5	24.7	9.1	38.2	22.5	47.1	54.0	-6.9	360	2.00	Hor/	HP/	Ave	Tune to frequency 902.2Mhz-noise floor
9924.200	35.8	24.7	9.1	38.2	22.5	58.3	54.0	4.3	360	1.00	Vert	HP/	Peak	Tune to frequency 902.2Mhz-noise floor
9924.200	34.2	24.7	9.1	38.2	22.6	56.8	54.0	2.8	360	2.00	Hor/	HP/	Peak	Tune to frequency 902.2Mhz-noise floor
1828.100	35.4	26.5	3.4	27.4	4.3	39.7	54.0	-14.3	319	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz
1828.220	34.4	26.5	3.4	27.4	4.3	38.7	54.0	-15.3	346	2.00	Hor/	HP/	Peak	Tune to frequency 914Mhz
2742.120	41.3	27.7	4.1	29.6	6.0	47.3	54.0	-6.7	8	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz
2742.220	35.9	27.7	4.1	29.6	6.0	41.9	54.0	-12.1	93	2.25	Hor/	HP/	Peak	Tune to frequency 914Mhz
3655.920	37.9	28.3	4.8	30.5	7.0	44.9	54.0	-9.1	331	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz
3656.260	36.1	28.3	4.8	30.5	7.0	43.1	54.0	-10.9	360	2.00	Hor/	HP/	Peak	Tune to frequency 914Mhz
5484.060	36.4	29.0	6.0	34.0	11.0	47.4	54.0	-6.6	346	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz
5484.220	35.7	29.0	6.0	34.0	11.0	46.7	54.0	-7.3	360	1.50	Hor/	HP/	Peak	Tune to frequency 914Mhz
6397.940	38.9	30.3	7.3	35.9	12.9	51.8	54.0	-2.2	345	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz
6398.040	31.4	30.3	7.3	35.9	12.9	44.3	54.0	-9.7	345	1.00	Vert	HP/	Ave	Tune to frequency 914Mhz
6398.040	35.7	30.3	7.3	35.9	12.9	48.6	54.0	-5.4	0	2.20	Hor/	HP/	Peak	Tune to frequency 914Mhz
6398.040	26.2	30.3	7.3	35.9	12.9	39.1	54.0	-14.9	0	2.20	Hor/	HP/	Ave	Tune to frequency 914Mhz
7312.000	28.0	28.8	7.8	37.1	16.1	44.1	54.0	-9.9	330	1.00	Vert	HP/	Ave	Tune to frequency 914Mhz
7312.000	37.5	28.8	7.8	37.1	16.1	53.6	54.0	-0.4	330	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz
7312.000	34.8	28.8	7.8	37.1	16.1	50.9	54.0	-3.1	304	2.00	Hor/	HP/	Peak	Tune to frequency 914Mhz
7312.000	25.3	28.8	7.8	37.1	16.1	41.4	54.0	-12.6	304	2.00	Hor/	HP/	Ave	Tune to frequency 914Mhz
8225.520	25.2	28.2	9.0	37.5	18.3	43.5	54.0	-10.5	2	2.20	Hor/	HP/	Ave	Tune to frequency 914Mhz

8225.960	39.0	28.2	9.0	37.5	18.3	57.3	54.0	3.3	352	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz
8226.040	35.2	28.2	9.0	37.5	18.3	53.5	54.0	-0.5	2	2.20	Hor/	HP/	Peak	Tune to frequency 914Mhz
8226.040	30.9	28.2	9.0	37.5	18.3	49.2	54.0	-4.8	352	1.00	Vert	HP/	Ave	Tune to frequency 914Mhz
9140.000	35.8	27.5	10.9	37.5	20.9	56.7	54.0	2.7	0	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz
9140.000	25.3	27.5	10.9	37.5	20.9	46.2	54.0	-7.8	360	2.00	Hor/	HP/	Ave	Tune to frequency 914Mhz
9140.200	35.8	27.5	10.9	37.5	20.9	56.7	54.0	2.7	360	2.00	Hor/	HP/	Peak	Tune to frequency 914Mhz
9140.200	26.7	27.5	10.9	37.5	20.9	47.7	54.0	-6.3	0	1.00	Vert	HP/	Ave	Tune to frequency 914Mhz
4570.000	34.1	29.3	5.9	32.5	9.1	43.2	54.0	-10.8	360	1.00	Vert	HP/	Peak	Tune to frequency 914Mhz-noise floor-no signal with resolution down
4570.000	34.0	29.3	5.9	32.5	9.1	43.1	54.0	-10.9	360	2.00	Hor/	HP/	Peak	Tune to frequency 914Mhz-noise floor-no signal with resolution down
1855.220	37.1	26.5	3.4	27.6	4.5	41.6	54.0	-12.4	30	1.00	Vert	HP/	Peak	Tune to frequency 927.5Mhz
1855.140	34.2	26.5	3.4	27.6	4.5	38.7	54.0	-15.3	326	2.00	Hor/	HP/	Peak	Tune to frequency 927.5Mhz
2783.500	36.3	27.7	4.1	29.8	6.2	42.5	54.0	-11.5	178	1.00	Vert	HP/	Peak	Tune to frequency 927.5Mhz
2782.380	36.2	27.7	4.1	29.7	6.2	42.4	54.0	-11.6	54	1.75	Hor/	HP/	Peak	Tune to frequency 927.5Mhz
3710.400	37.3	28.3	4.9	30.6	7.2	44.5	54.0	-9.5	101	1.00	Vert	HP/	Peak	Tune to frequency 927.5Mhz
3710.100	36.3	28.3	4.9	30.6	7.2	43.5	54.0	-10.5	0	2.00	Hor/	HP/	Peak	Tune to frequency 927.5Mhz
6492.680	31.0	30.3	7.4	36.2	13.3	44.2	54.0	-9.8	351	1.00	Vert	HP/	Ave	Tune to frequency 927.5Mhz
6492.700	29.0	30.3	7.4	36.2	13.3	42.3	54.0	-11.7	343	2.00	Hor/	HP/	Ave	Tune to frequency 927.5Mhz
6492.680	38.9	30.3	7.4	36.2	13.3	52.2	54.0	-1.8	351	1.00	Vert	HP/	Peak	Tune to frequency 927.5Mhz
6492.700	37.5	30.3	7.4	36.2	13.3	50.8	54.0	-3.2	343	2.00	Hor/	HP/	Peak	Tune to frequency 927.5Mhz