

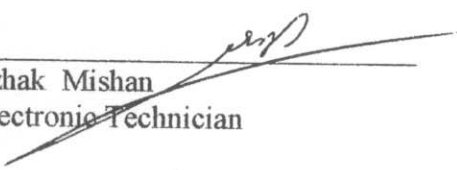
10. Signatures.

EMC TEST REPORT AND APPROVAL
FOR
"Main.net Communication Ltd. "
"NtPLUS"

Manufacturer responsible

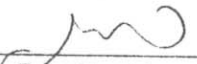
Persons: **Mr. Brkan Yossi**

Tested by :

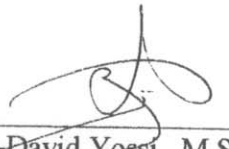

Itzhak Mishan
Electronic Technician


Ben-David Yossi M.Sc.
EMI Test Ltd.

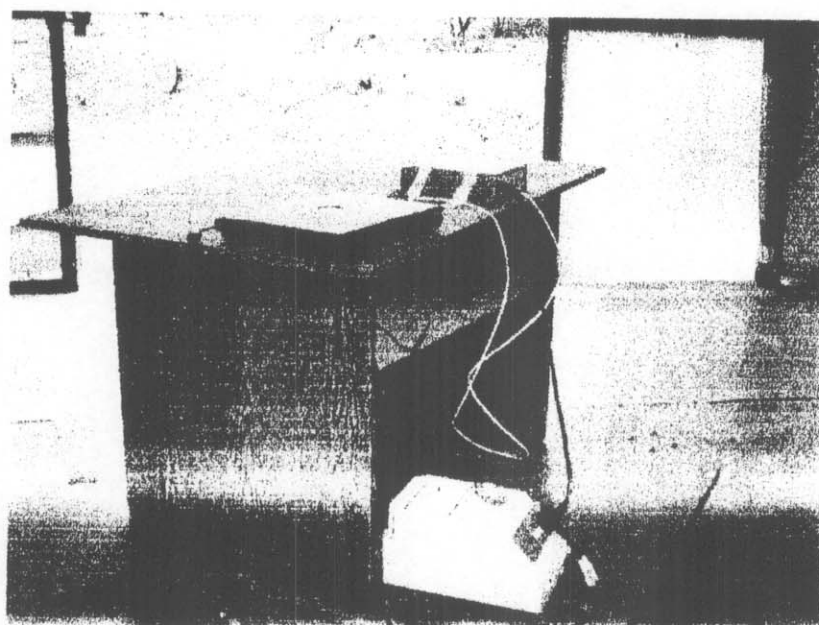
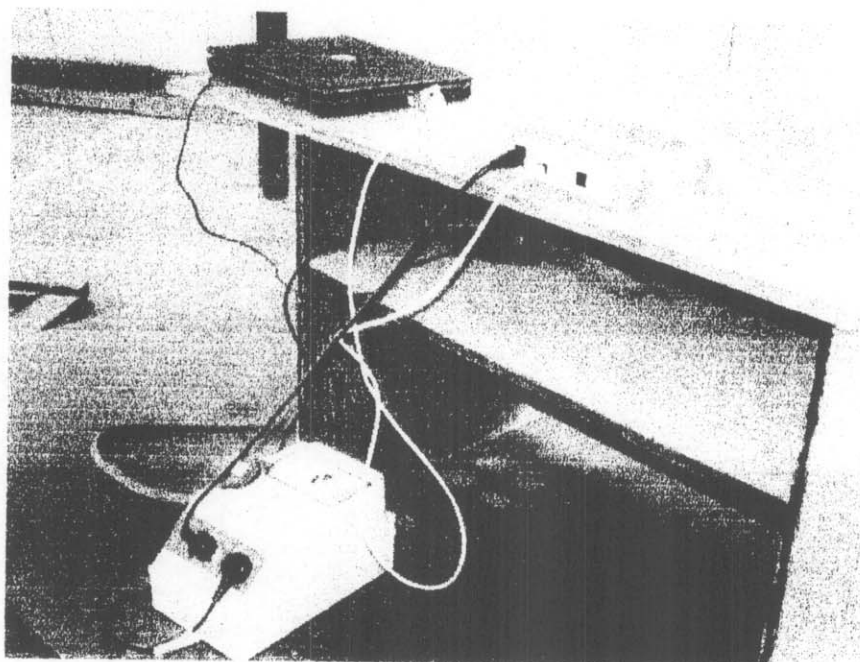
Report prepared by:


Dvora Ben-David
EMI Test Ltd.

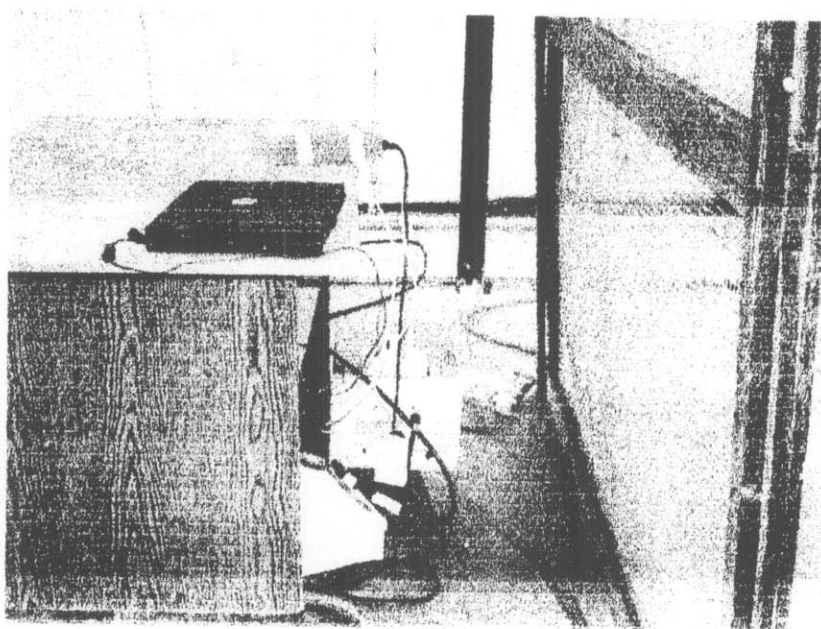
Approved by:


Ben-David Yossi M.Sc.
ORDOS & EMI Test Ltd. Manager

11. Setup Photographs.



Photographs #1, #2 . Test Setup for Measurements of Radiated Emissions .



Photograph #3. Test Setup for Measurements of **Conducted** Emissions .

Appendix A:

Radiated Emission

Test Results

Company: Mai.Net Communication Ltd.

E.U.T: NtPLUS

Standard: FCC Part 15 Class B

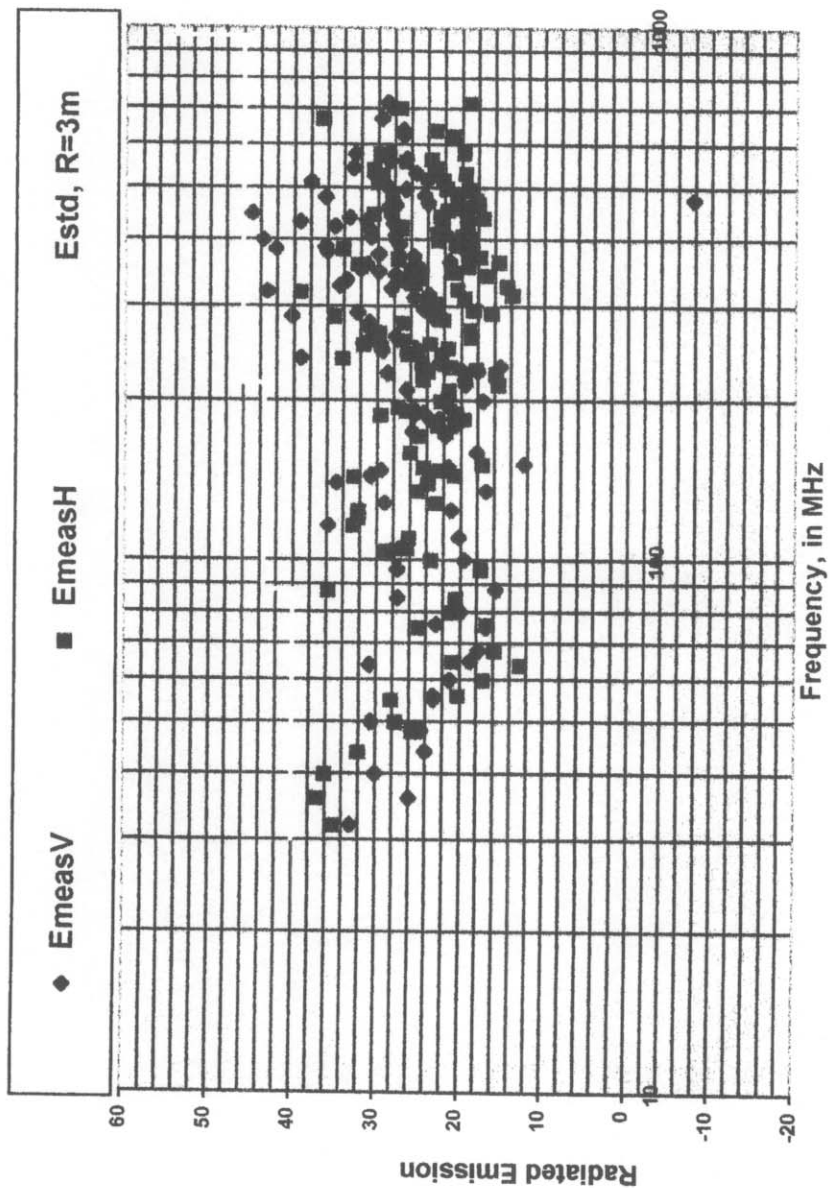
Distance: 3m

Radiated Test Results

Fer. (MHz)	Ameas Ver	Ameas Hor	AF dB/m	CL dB	Gain dB	Std Limit	E _{Ver} dB μ V/m	E _{Hor} dB μ V/m	Safety Margin dB
32.00	45.00	47.00	20.00	0.76	32.80	40.00	32.96	34.96	5.04
36.00	40.00	51.00	18.00	0.79	32.80	40.00	25.99	36.99	3.01
40.00	46.00	52.00	16.00	0.83	32.80	40.00	30.03	36.03	3.97
44.00	42.00	50.00	14.00	0.87	32.80	40.00	24.07	32.07	7.93
48.00	44.00	45.00	12.50	0.90	32.80	40.00	24.60	25.60	14.40
50.00	51.00	48.00	11.50	0.92	32.80	40.00	30.62	27.62	9.38
55.00	46.00	51.00	9.00	0.97	32.80	40.00	23.17	28.17	11.83
56.00	47.00	44.00	8.00	0.97	32.80	40.00	23.17	20.17	16.83
60.00	45.00	41.00	8.00	1.01	32.80	40.00	21.21	17.21	18.79
64.00	56.00	38.00	6.50	1.05	32.80	40.00	30.75	12.75	9.25
65.00	44.00	46.00	6.50	1.06	32.80	40.00	18.76	20.76	19.24
68.00	43.00	41.00	6.50	1.08	32.80	40.00	17.78	15.78	22.22
75.00	42.00	50.00	6.50	1.15	32.80	40.00	16.85	24.85	15.15
76.00	48.00	42.00	6.50	1.15	32.80	40.00	22.85	16.85	17.15
80.00	45.00	46.00	6.50	1.19	32.80	40.00	19.89	20.89	19.11
85.00	52.00	45.00	7.00	1.23	32.80	40.00	27.43	20.43	12.57
88.00	40.00	60.00	7.30	1.25	32.80	40.00	15.75	35.75	4.25
96.00	50.00	40.00	9.00	1.32	32.80	43.50	27.52	17.52	15.98
100.00	41.00	45.00	10.00	1.36	32.80	43.50	19.56	23.56	19.94
104.00	49.00	50.00	10.60	1.39	32.80	43.50	28.19	29.19	14.31
105.00	48.00	47.00	10.75	1.40	32.80	43.50	27.35	26.35	16.15
110.00	40.00	46.00	11.50	1.44	32.80	43.50	20.14	26.14	17.36
116.00	55.00	52.00	12.10	1.49	32.80	43.50	35.79	32.79	7.71
120.00	51.00	51.00	12.50	1.53	32.80	43.50	32.23	32.23	11.27
124.00	40.00	51.00	12.40	1.56	32.80	43.50	21.16	32.16	11.34
128.00	48.00	42.00	12.30	1.60	32.80	43.50	29.10	23.10	14.40
135.00	36.00	44.00	12.13	1.65	32.80	43.50	16.98	24.98	18.52
140.00	54.00	43.00	12.00	1.70	32.80	43.50	34.90	23.90	8.60
144.00	50.00	52.00	11.80	1.73	32.80	43.50	30.73	32.73	10.77
145.00	50.00	40.00	11.75	1.74	32.80	43.50	30.69	20.69	12.81
148.00	49.00	42.00	11.60	1.76	32.80	43.50	29.56	22.56	13.94
150.00	41.00	44.00	11.50	1.78	32.80	43.50	21.48	24.48	19.02
152.00	32.00	37.00	11.40	1.80	32.80	43.50	12.40	17.40	26.10
160.00	38.00	46.00	11.00	1.86	32.80	43.50	18.06	26.06	17.44
172.00	42.00	45.00	10.70	1.96	32.80	43.50	21.86	24.86	18.64
175.00	46.00	42.00	10.63	1.98	32.80	43.50	25.81	21.81	17.69
180.00	41.00	43.00	10.50	2.02	32.80	43.50	20.72	22.72	20.78
184.00	44.00	41.00	10.40	2.05	32.80	43.50	23.65	20.65	19.85
185.00	43.00	40.00	10.38	2.06	32.80	43.50	22.63	19.63	20.87
188.00	46.00	50.00	10.30	2.08	32.80	43.50	25.58	29.58	13.92

Fer. (MHz)	Ameas Ver	Ameas Hor	AF dB/m	CL dB	Gain dB	Std Limit	E _{Ver} dB μ V/m	E _{Hor} dB μ V/m	Safety Margin dB
190.00	45.00	41.00	10.25	2.09	32.80	43.50	24.54	20.54	18.96
192.00	46.00	47.00	10.20	2.11	32.80	43.50	25.51	26.51	16.99
195.00	42.00	48.00	10.13	2.13	32.80	43.50	21.46	27.46	16.04
200.00	38.00	43.00	10.00	2.17	32.80	43.50	17.37	22.37	21.13
210.00	47.00	42.00	10.00	2.25	32.80	43.50	26.45	21.45	17.05
215.00	40.00	36.00	10.00	2.29	32.80	43.50	19.49	15.49	24.01
220.00	40.00	45.00	10.00	2.33	32.80	46.00	19.53	24.53	21.47
225.00	49.00	36.00	10.25	2.37	32.80	46.00	28.82	15.82	17.18
228.00	38.00	44.00	10.40	2.39	32.80	46.00	17.99	23.99	22.01
230.00	40.00	38.00	10.50	2.41	32.80	46.00	20.11	18.11	25.89
232.00	35.00	41.00	10.70	2.42	32.80	46.00	15.32	21.32	24.68
235.00	42.00	44.00	11.00	2.44	32.80	46.00	22.64	24.64	21.36
240.00	58.00	53.00	11.50	2.48	32.80	46.00	39.18	34.18	6.82
244.00	44.00	41.00	11.60	2.51	32.80	46.00	25.31	22.31	20.69
245.00	44.00	45.00	11.63	2.51	32.80	46.00	25.34	26.34	19.66
248.00	48.00	44.00	11.70	2.54	32.80	46.00	29.44	25.44	16.56
250.00	48.00	45.00	11.75	2.55	32.80	46.00	29.50	26.50	16.50
252.00	44.00	40.00	11.80	2.56	32.80	46.00	25.56	21.56	20.44
255.00	48.00	50.00	11.88	2.59	32.80	46.00	29.66	31.66	14.34
256.00	50.00	42.00	11.90	2.59	32.80	46.00	31.69	23.69	14.31
260.00	49.00	45.00	12.00	2.62	32.80	46.00	30.82	26.82	15.18
264.00	46.00	37.00	12.00	2.65	32.80	46.00	27.85	18.85	18.15
268.00	48.00	48.00	12.00	2.68	32.80	46.00	29.88	29.88	16.12
272.00	49.00	37.00	12.00	2.71	32.80	46.00	30.91	18.91	15.09
280.00	49.00	45.00	12.00	2.77	32.80	46.00	30.97	26.97	15.03
284.00	41.00	40.00	12.10	2.79	32.80	46.00	23.09	22.09	22.91
288.00	58.00	53.00	12.20	2.82	32.80	46.00	40.22	35.22	5.78
292.00	50.00	34.00	12.30	2.85	32.80	46.00	32.35	16.35	13.65
296.00	42.00	36.00	12.40	2.88	32.80	46.00	24.48	18.48	21.52
304.00	41.00	40.00	12.80	2.94	32.80	46.00	23.94	22.94	22.06
312.00	42.00	36.00	13.40	2.99	32.80	46.00	25.59	19.59	20.41
316.00	40.00	30.00	13.70	3.02	32.80	46.00	23.92	13.92	22.08
320.00	59.00	55.00	14.00	3.05	32.80	46.00	43.25	39.25	2.75
324.00	44.00	36.00	14.10	3.07	32.80	46.00	28.37	20.37	17.63
328.00	50.00	30.00	14.20	3.10	32.80	46.00	34.50	14.50	11.50
332.00	42.00	41.00	14.30	3.13	32.80	46.00	26.63	25.63	19.37
336.00	49.00	42.00	14.40	3.15	32.80	46.00	33.75	26.75	12.25
340.00	40.00	40.00	14.50	3.18	32.80	46.00	24.88	24.88	21.12
344.00	43.00	32.00	14.50	3.21	32.80	46.00	27.91	16.91	18.09
348.00	45.00	36.00	14.50	3.24	32.80	46.00	29.94	20.94	16.06
352.00	47.00	41.00	14.56	3.26	32.80	46.00	32.02	26.02	13.98
356.00	40.00	34.00	14.68	3.29	32.80	46.00	25.17	19.17	20.83
360.00	46.00	47.00	14.80	3.31	32.80	46.00	31.31	32.31	13.69
364.00	36.00	30.00	14.92	3.34	32.80	46.00	21.46	15.46	24.54
368.00	42.00	42.00	15.04	3.37	32.80	46.00	27.61	27.61	18.39
372.00	40.00	32.00	15.16	3.39	32.80	46.00	25.75	17.75	20.25
376.00	44.00	33.00	15.28	3.42	32.80	46.00	29.90	18.90	16.10
380.00	50.00	33.00	15.40	3.44	32.80	46.00	36.04	19.04	9.96
384.00	56.00	48.00	15.52	3.46	32.80	46.00	42.18	34.18	3.82
388.00	50.00	33.00	15.64	3.49	32.80	46.00	36.33	19.33	9.67

Fer. (MHz)	Ameas Ver	Ameas Hor	AF dB/m	CL dB	Gain dB	Std Limit	E _{Ver} dB μ V/m	E _{Hor} dB μ V/m	Safety Margin dB
392.00	41.00	34.00	15.76	3.51	32.80	46.00	27.47	20.47	18.53
396.00	41.00	34.00	15.88	3.54	32.80	46.00	27.62	20.62	18.38
400.00	57.00	36.00	16.00	3.56	32.80	46.00	43.76	22.76	2.24
404.00	44.00	32.00	16.04	3.59	32.80	46.00	30.83	18.83	15.17
408.00	41.00	33.00	16.08	3.61	32.80	46.00	27.89	19.89	18.11
412.00	35.00	36.00	16.12	3.64	32.80	46.00	21.96	22.96	23.04
420.00	44.00	40.00	16.20	3.69	32.80	46.00	31.09	27.09	14.91
424.00	48.00	40.00	16.24	3.71	32.80	46.00	35.15	27.15	10.85
428.00	41.00	35.00	16.28	3.74	32.80	46.00	28.22	22.22	17.78
432.00	52.00	32.00	16.32	3.76	32.80	46.00	39.28	19.28	6.72
436.00	44.00	32.00	16.36	3.78	32.80	46.00	31.34	19.34	14.66
440.00	46.00	30.00	16.40	3.80	32.80	46.00	33.40	17.40	12.60
444.00	41.00	35.00	16.44	3.83	32.80	46.00	28.47	22.47	17.53
448.00	57.50	43.00	16.48	3.85	32.80	46.00	45.03	30.53	0.97
456.00	41.00	34.00	16.62	3.89	32.80	46.00	28.71	21.71	17.29
460.00	41.00	32.00	16.70	3.92	32.80	46.00	28.82	19.82	17.18
464.00	40.00	30.00	16.78	3.94	32.80	46.00	27.92	17.92	18.08
468.00	36.00	30.00	16.86	3.96	32.80	46.00	24.02	18.02	21.98
476.00	4.00	30.00	17.02	4.01	32.80	46.00	-7.77	18.23	53.77
480.00	48.00	40.00	17.10	4.03	32.80	46.00	36.33	28.33	9.67
484.00	36.00	32.00	17.18	4.05	32.80	46.00	24.43	20.43	21.57
496.00	38.00	30.00	17.42	4.12	32.80	46.00	26.74	18.74	19.26
500.00	40.00	33.00	17.50	4.14	32.80	46.00	28.84	21.84	17.16
512.00	49.00	41.00	17.60	4.20	32.80	46.00	38.00	30.00	8.00
516.00	35.00	33.00	17.80	4.22	32.80	46.00	24.22	22.22	21.78
528.00	41.00	40.00	18.00	4.29	32.80	46.00	30.49	29.49	15.51
532.00	36.00	30.00	18.00	4.31	32.80	46.00	25.51	19.51	20.49
540.00	41.00	41.00	18.00	4.35	32.80	46.00	30.55	30.55	15.45
544.00	43.00	33.00	18.40	4.37	32.80	46.00	32.97	22.97	13.03
560.00	38.00	36.00	19.00	4.45	32.80	46.00	28.65	26.65	17.35
564.00	36.00	33.00	19.00	4.47	32.80	46.00	26.67	23.67	19.33
576.00	42.00	39.00	19.00	4.52	32.80	46.00	32.72	29.72	13.28
580.00	38.00	29.00	19.00	4.54	32.80	46.00	28.74	19.74	17.26
624.00	36.00	30.00	19.00	4.75	32.80	46.00	26.95	20.95	19.05
640.00	36.00	32.00	19.00	4.81	32.80	46.00	27.01	23.01	18.99
672.00	38.00	45.00	19.44	4.94	32.80	46.00	29.58	36.58	9.42
704.00	36.00	35.00	20.12	5.06	32.80	46.00	28.38	27.38	17.62
720.00	36.00	26.00	20.60	5.12	32.80	46.00	28.92	18.92	17.08



Radiated Emission vrs. FCC Part 15 Class B Standard, Vertical/Horizontal Polarization

Appendix B:

Conducted Emission Test Results

Company: Main.net Communication Ltd.

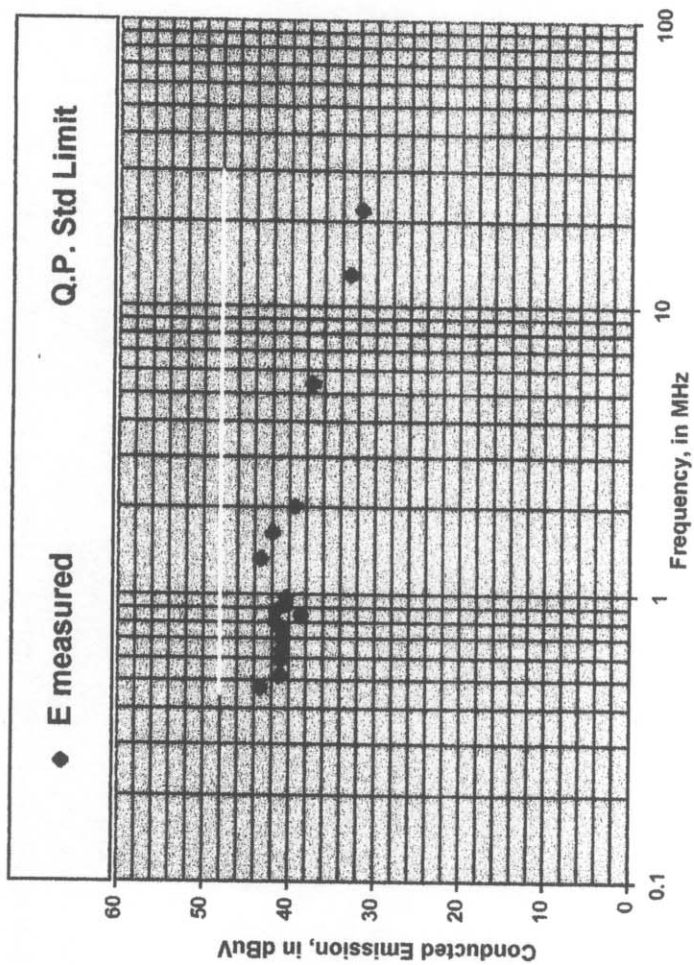
E.U.T: NtPLUS

Standard: EN55022 Class B Q.P. Detector

Lead: Neutral

Conducted Test Results

F Mhz	Vmeas dB μ V	Econd dB μ V	Estand dB μ V/m	Sf Marg dB
0.47	32.00	43.35	48.00	4.65
0.52	30.00	41.12	48.00	6.88
0.59	30.00	40.99	48.00	7.01
0.64	30.00	40.92	48.00	7.08
0.70	30.00	40.82	48.00	7.18
0.75	30.00	40.74	48.00	7.26
0.81	31.00	41.65	48.00	6.35
0.85	28.00	38.59	48.00	9.41
0.88	31.00	41.54	48.00	6.46
0.93	30.00	40.46	48.00	7.54
0.98	30.00	40.39	48.00	7.61
1.34	33.00	43.35	48.00	4.65
1.64	31.60	41.96	48.00	6.04
2.02	29.00	39.36	48.00	8.64
5.44	27.00	37.41	48.00	10.59
12.90	22.50	33.06	48.00	14.94
21.98	21.00	31.74	48.00	16.26



Conducted Emission on Neutral Lead vs. FCC Part 15 Class B Standard.

Company: Main.net Communication Ltd.

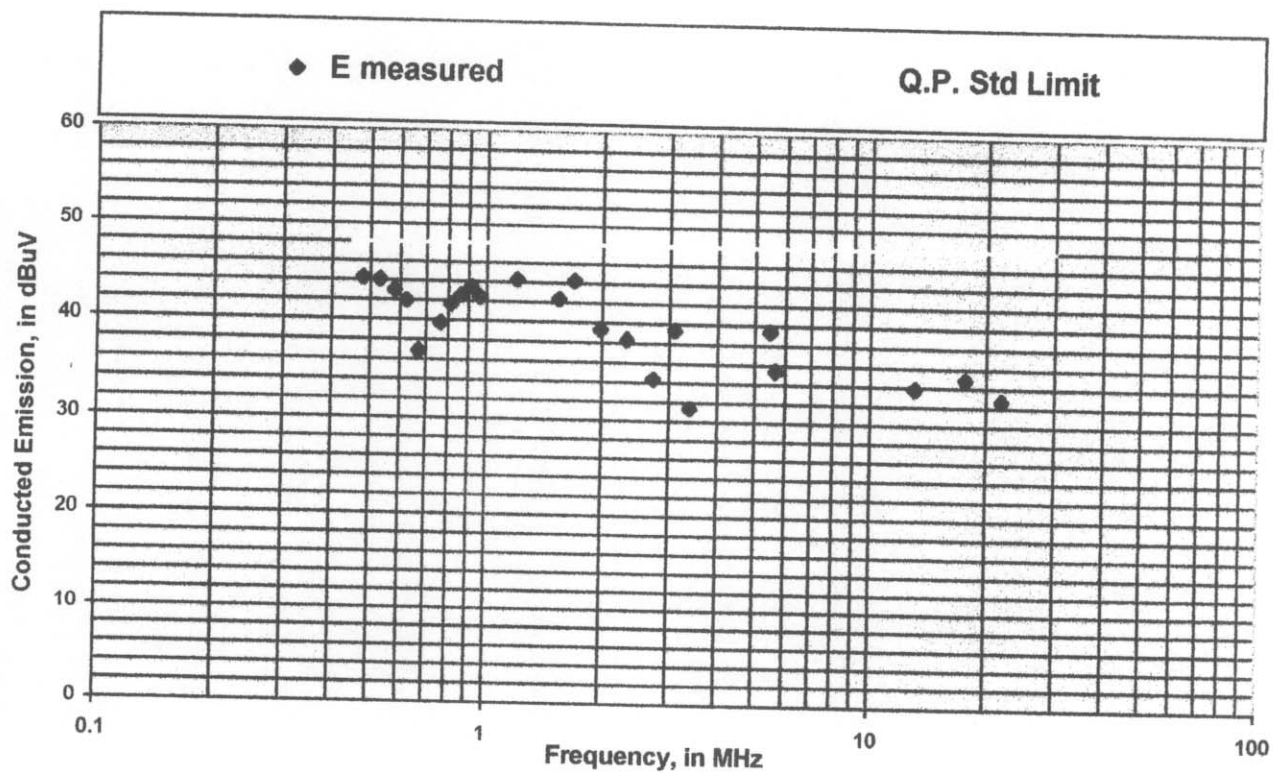
E.U.T: NtPLUS

Standard: EN55022 Class B Q.P. Detector

Lead: Phase

Conducted Test Results

F Mhz	Vmeas dB μ V	Econd dB μ V	Estand dB μ V/m	Sf Marg dB
0.48	33.00	44.27	48.00	3.73
0.53	33.00	44.10	48.00	3.90
0.58	32.00	43.02	48.00	4.98
0.62	31.00	41.95	48.00	6.05
0.67	26.00	36.87	48.00	11.13
0.76	29.00	39.72	48.00	8.28
0.81	31.00	41.64	48.00	6.36
0.86	32.00	42.57	48.00	5.43
0.91	33.00	43.49	48.00	4.51
0.96	32.00	42.42	48.00	5.58
1.20	33.95	44.30	48.00	3.70
1.54	32.00	42.36	48.00	5.64
1.69	33.90	44.26	48.00	3.74
1.98	29.00	39.36	48.00	8.64
2.32	28.00	38.37	48.00	9.63
2.72	24.00	34.37	48.00	13.63
3.09	29.00	39.38	48.00	8.62
3.39	21.00	31.38	48.00	16.62
5.47	29.00	39.41	48.00	8.59
5.66	25.00	35.41	48.00	12.59
13.00	23.30	33.86	48.00	14.14
17.61	24.20	34.85	48.00	13.15
21.87	22.00	32.74	48.00	15.26



Conducted Emission on Phase Lead vrs. FCC Part 15 Class B Standard.

Appendix C:

INFORMATIVE

Carrier Current

Radiated Emission

Test Results

1-30MHz

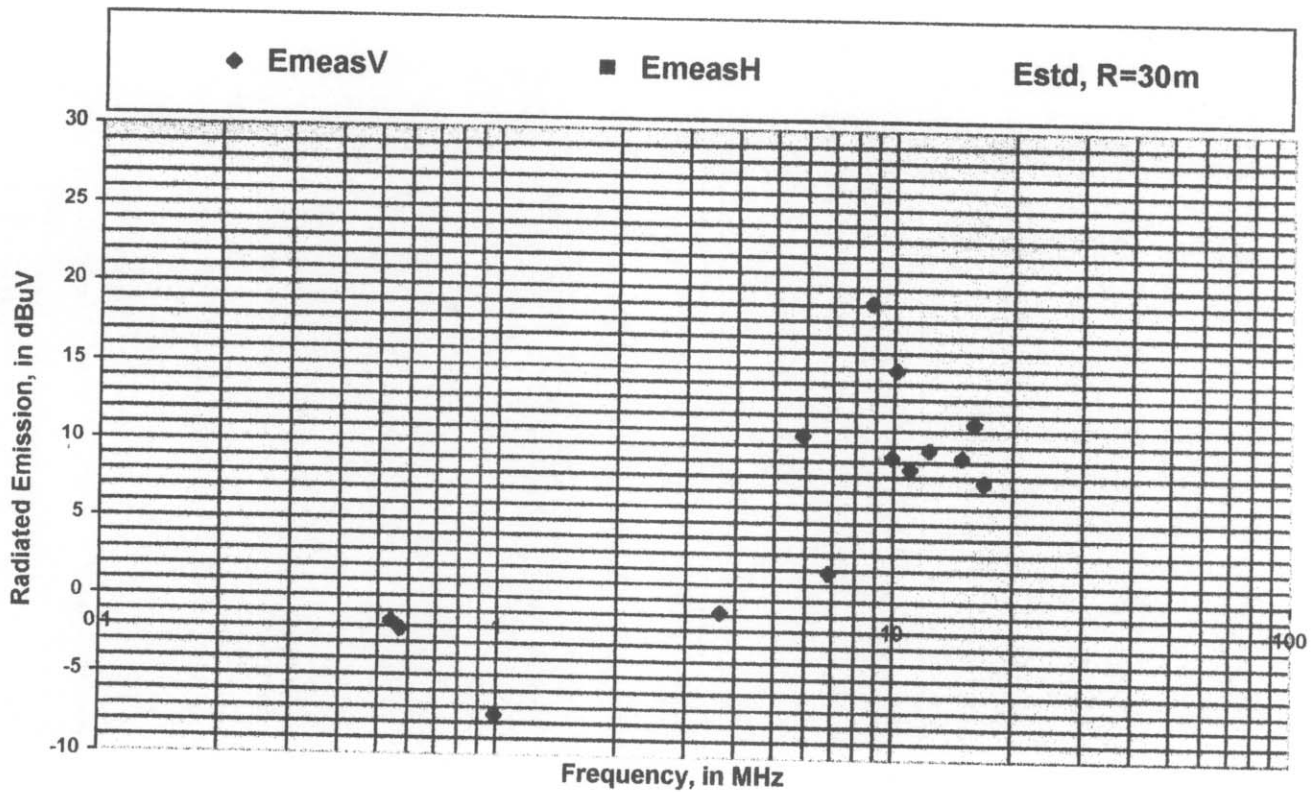
Company: Mai.Net Communication Ltd.

E.U.T: NtPLUS

Standard: Carrier Current Fcc Part 15 Class B Distance: 30m

Radiated Test Results

Frq. (MHz)	Ameas Ver	Ameas Hor	AF dB/m	CL dB	Gain dB	Std Limit	E _{Ver} dB μ V/m	E _{Hor} dB μ V/m	Safety Margin dB
0.54	24.00		7.00	0.16	32.80	44.40	-1.64		46.04
0.57	23.50		7.00	0.16	32.80	42.10	-2.14		44.24
0.99	18.00		7.07	0.25	32.80	24.10	-7.48		31.58
3.66	24.00		7.69	0.28	32.80	40.00	-0.83		40.83
5.88	35.00		8.12	0.32	32.80	40.00	10.64		29.36
6.85	26.00		8.26	0.34	32.80	40.00	1.80		38.20
8.74	43.00		8.52	0.37	32.80	40.00	19.10		20.90
9.87	33.00		8.68	0.40	32.80	40.00	9.28		30.72
10.12	38.60		8.72	0.40	32.80	29.50	14.92		14.58
10.98	32.00		8.88	0.42	32.80	29.50	8.50		21.00
12.28	33.00		9.11	0.45	32.80	29.50	9.76		19.74
14.84	32.00		9.57	0.50	32.80	29.50	9.27		20.23
15.92	34.00		9.77	0.52	32.80	29.50	11.48		18.02
16.92	30.00		9.95	0.54	32.80	29.50	7.68		21.82



Radiated Emission vrs. Carrier Current 30m Fcc Rad Standard, Vertical/Horizontal Polarization