

EMC Technologies Report Number: M060902_Cert_Rx

**APPENDIX H
GRAPHS OF EMI MEASUREMENT**

EMC Technologies Pty. Ltd. - Global Product Certification

Job No:m060902

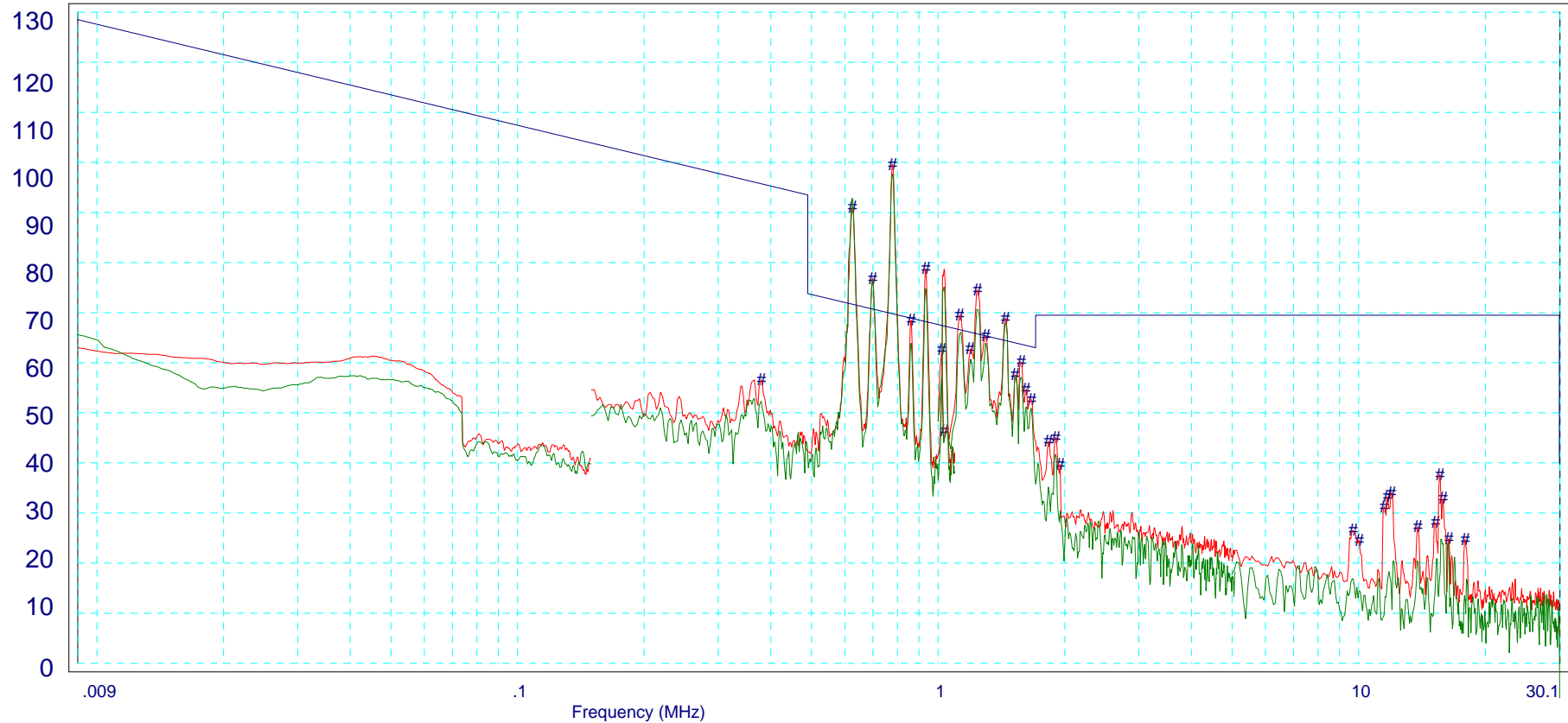
p:\PCF\m060902f_1.PCF

Test Date: 19/09/06

GRAPH No. 1

Radiated Emissions (dBuV)

= Ambient



Millennium Electronics
Proximity Card Reader

Radiated Emissions - Antenna Parallel to EUT

Limits: FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
— Ambients
— Parallel

Ver 5.5 Build 151
radiated emissions site 2 lerderderg
t:6502_E c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Chieu Huynh

Source:
m060902e 1 2 3 4
m060902e 13 14 15 16

EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
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Test Date: 19/09/06

GRAPH No. 2

Radiated Emissions (dBuV)

= Ambient



Millennium Electronics
Proximity Card Reader

Radiated Emissions - Antenna Perpendicular to EUT

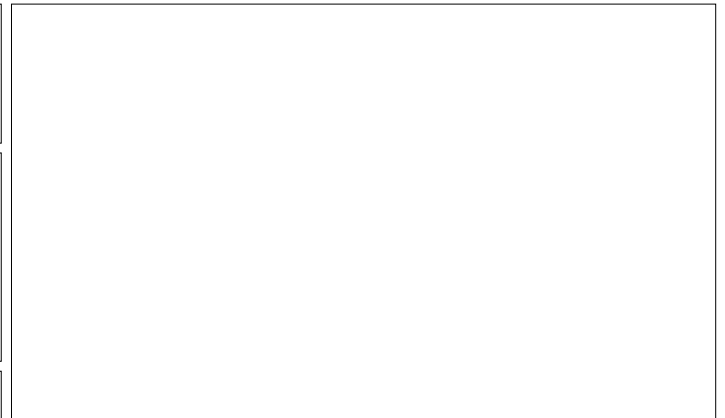
Limits: FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
— Ambients
— Perpendicular

Ver 5.5 Build 151
radiated emissions site 2 lerderderg
t:6502_E c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Chieu Huynh

Source:
m060902e 8 5 6 7
m060902e 9 10 11 12

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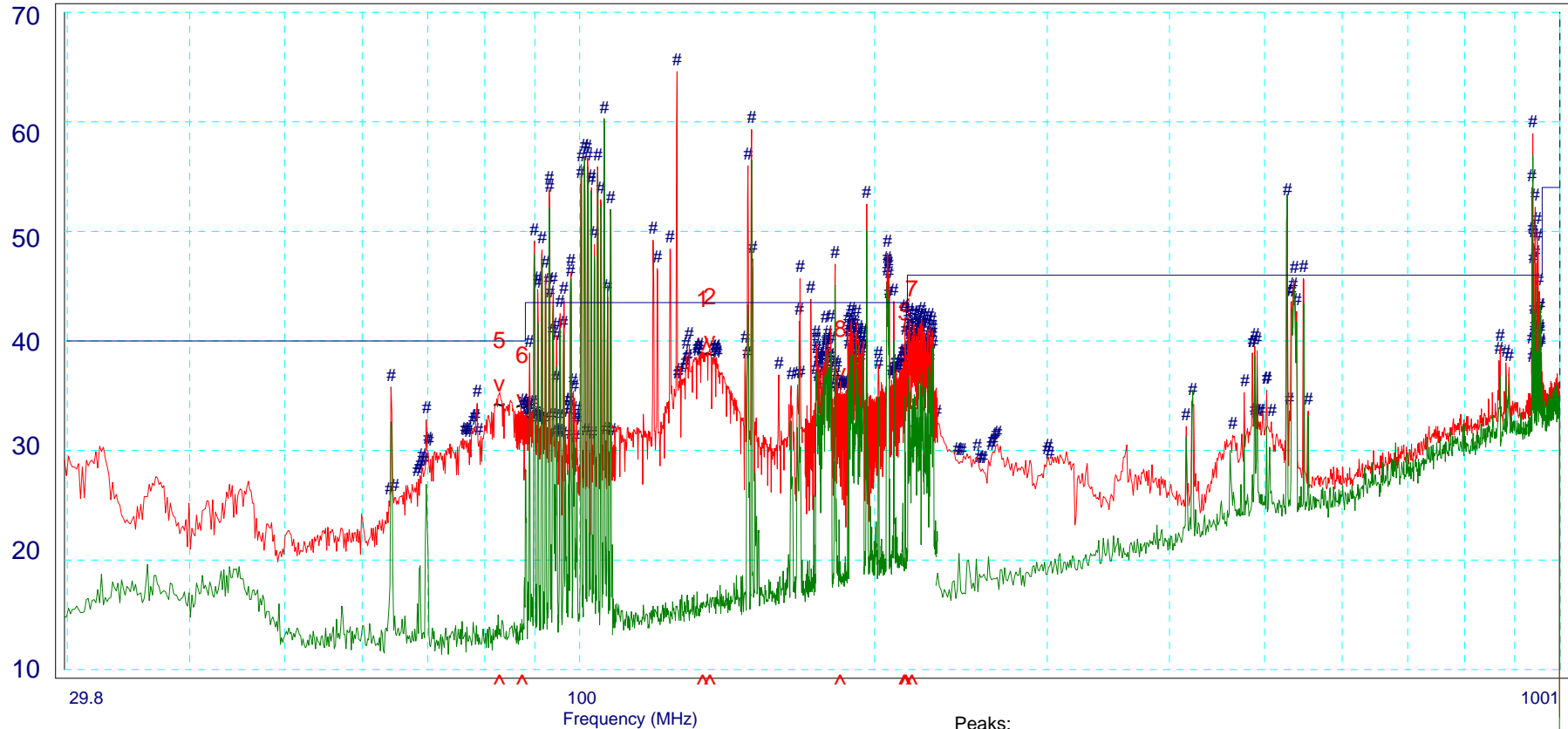
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Radiated Emissions (dBuV/m)

Test Date: 15/09/06

GRAPH No. 3

= Ambient



Millennium Electronics
Proximity Card Reader

Radiated Emissions - Vertical Polarity

Limits:
FCC-B3 FCC CLASS B RAD 3M LIMITS

Legend:
— Vertical Ambients
— Vertical Emissions

Ver 5.5 Build 151
radiated emissions site 2 lerderderg
t:A1370607_10M c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Chieu Huynh

Source:
m060902r 7 8 9 10 11 1 2 3
m060902r 22 23 24 25 26 27 28 29

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	QP Val (dBuV/m)	FCC-B3 (dBuV/m)	dL1 (dB)
1	133.53	39.0	38.2	43.5	-5.3
2	135.79	39.3	38.2	43.5	-5.3
3	214.48	37.8	37.6	43.5	-5.9
4	215.25	38.3	37.5	43.5	-6.0
5	82.81	35.3	33.6	40.0	-6.4
6	87.37	34.0	33.4	40.0	-6.6
7	218.26	40.0	39.3	46.0	-6.7
8	184.47	36.3	35.4	43.5	-8.1

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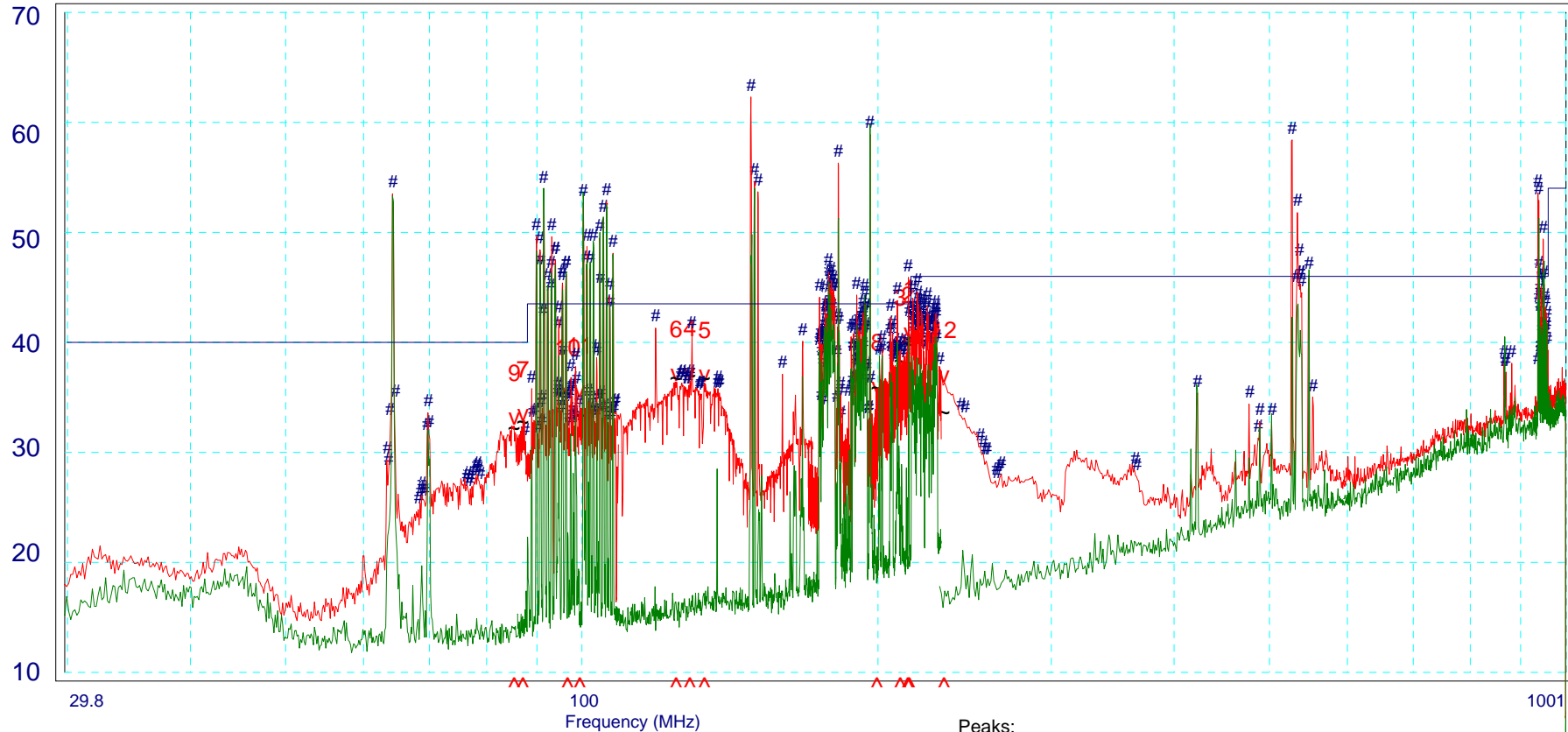
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Radiated Emissions (dBuV/m)

Test Date: 15/09/06

GRAPH No. 4

= Ambient



Millennium Electronics
Proximity Card Reader

Radiated Emissions - Horizontal Polarity

Limits:
FCC-B3 FCC CLASS B RAD 3M LIMITS

Legend:
— Horizontal Ambients
— Horizontal Emissions

Ver 5.5 Build 151
radiated emissions site 2 lerderderg
t:A1370607_10M c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Chieu Huynh

Source:
m060902r 12 13 14 15 16 4 5 6
m060902r 17 18 19 20 21 30 31 32

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC-B3 (dBuV/m)	dL1 (dB)
1	215.24	40.1	39.6	43.5	-4.0
2	214.49	39.5	39.2	43.5	-4.3
3	210.73	39.3	37.7	43.5	-5.8
4	128.73	36.5	36.3	43.5	-7.2
5	133.25	36.3	36.1	43.5	-7.4
6	124.69	36.4	36.1	43.5	-7.4
7	87.12	32.7	32.1	40.0	-7.9
8	199.61	35.2	35.2	43.5	-8.3
9	85.35	32.4	31.6	40.0	-8.4
10	96.70	34.8	34.7	43.5	-8.8
11	99.49	34.9	32.8	43.5	-10.8
12	233.38	36.3	33.0	46.0	-13.1

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