

EMC Technologies Report Number: M060139_Cert_G3_Internal_Receiver**APPENDIX H****Graphs of EMI Measurement****CONDUCTED EMI (0.15 MHz to 30 MHz)****Graph 1:** Active Line,**Graph 2:** Neutral Line,**RADIATED EMI (30 MHz to 1000 MHz)****Graph 3:** Vertical Polarisation, Tuned to 30 MHz**Graph 4:** Horizontal Polarisation Tuned to 30 MHz**Graph 5:** Vertical Polarisation, Tuned to 495 MHz**Graph 6:** Horizontal Polarisation Tuned to 495 MHz**Graph 7:** Vertical Polarisation, Tuned to 960 MHz**Graph 8:** Horizontal Polarisation Tuned to 960 MHz

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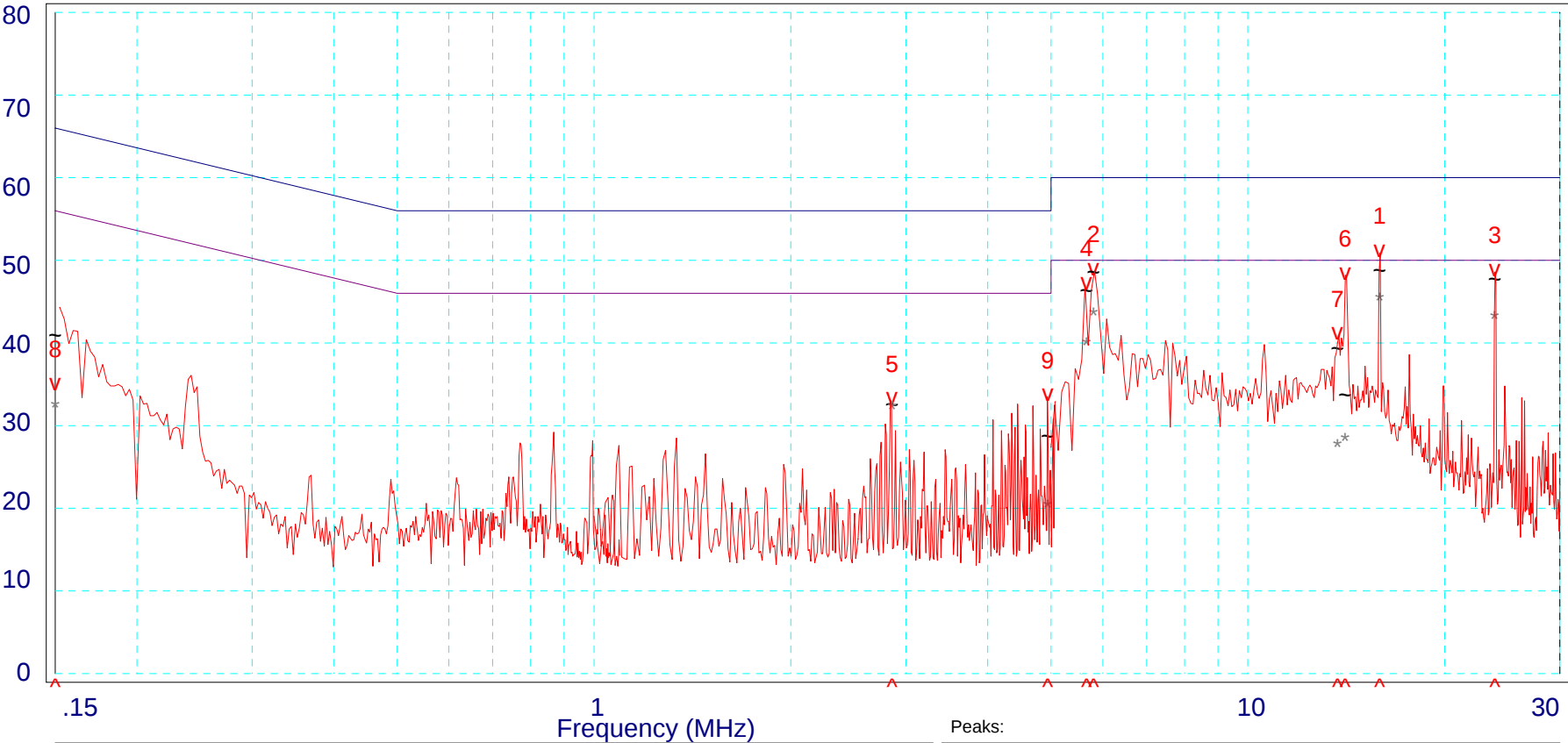
Conducted Emissions (dBUV)

Job No:m060139

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Test Date: 02/02/06

GRAPH No. 1



Rosetta Laboratories Pty Ltd
WinRadio G3 Series Receiver (PCI Version)

Conducted Emissions - Active line

Limits:
FCC_BQPN FCC PART 15 CLASS B CONDUCTED QP LIMITS (2002)
FCC_BAVN FCC PART 15 CLASS B CONDUCTED AVERAGE LIMIT (2002)

Legend:
Active Line

Ver 5.5 Build 110
conducted lab 3 using L-22 LISN
t:L0220506 c1:C1621206 c2:C1521206 p:NONE a:L0180706
Site ID: Room#3,57 Assembly Drv. Tullamarine, VIC
Test Officer:Kevin Hansen

Source:
M060139C 2 3 4

EMC Technologies (Melbourne) 57 Assembly Drv Tullamarine, 3043, Vic, Australia
Phone+(613) 9335 3333 Fax+(613) 9338 9260

Peaks:								
No	Freq (MHz)	Peak (dBUV)	QP Val (dBUV)	FCC_BQPN (dBUV)	dL1 (dB)	Av Val (dBUV)	FCC_BAVN (dBUV)	dL2 (dB)
1	15.90	51.0	48.4	60.0	-11.6	44.7	50.0	-5.3
2	5.809	48.8	48.2	60.0	-11.8	42.9	50.0	-7.1
3	23.85	48.6	47.4	60.0	-12.6	42.5	50.0	-7.5
4	5.666	47.0	45.9	60.0	-14.1	39.3	50.0	-10.7
5	2.857	33.1	32.2	56.0	-23.8	31.5	46.0	-14.5
6	14.09	48.2	33.3	60.0	-26.7	27.7	50.0	-22.3
7	13.71	40.9	39.0	60.0	-21.0	27.0	50.0	-23.0
8	0.150	34.8	40.6	66.0	-25.4	31.7	56.0	-24.3
9	4.942	33.5	28.4	56.0	-27.7	19.6	46.0	-26.4

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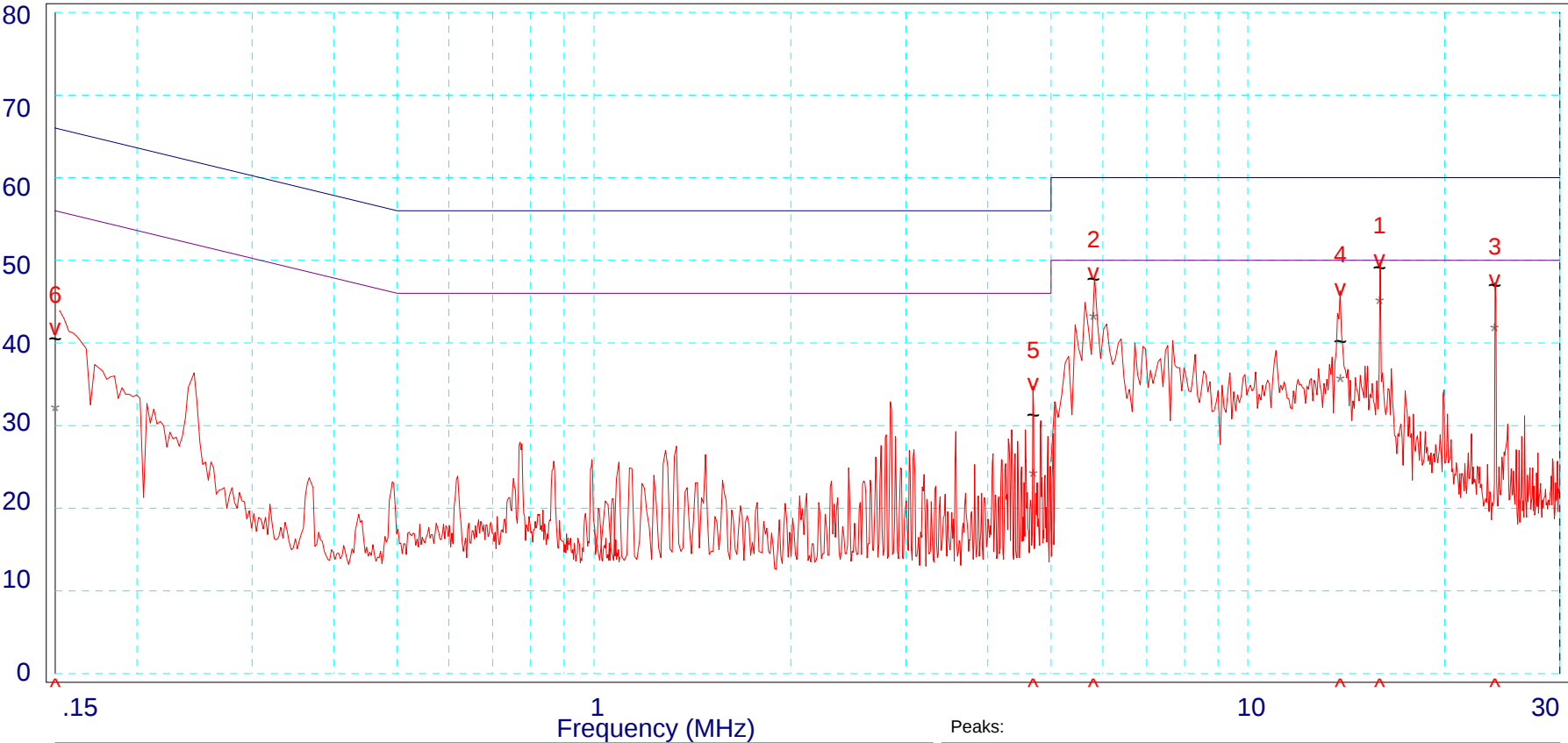
Conducted Emissions (dBUV)

Job No:m060139

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Test Date: 02/02/06

GRAPH No. 2



Rosetta Laboratories Pty Ltd
WinRadio G3 Series Receiver (PCI Version)

Conducted Emissions - Neutral line

Limits:
FCC_BQPN FCC PART 15 CLASS B CONDUCTED QP LIMITS (2002)
FCC_BAVN FCC PART 15 CLASS B CONDUCTED AVERAGE LIMIT (2002)

Legend:
— Neutral Line

Ver 5.5 Build 110
conducted lab 3 using L-22 LISN
t:L0220506 c1:C1621206 c2:C1521206 p:NONE a:L0180706
Site ID: Room#3,57 Assembly Drv. Tullamarine, VIC
Test Officer:Kevin Hansen

Source:
M060139C 5 6 7

EMC Technologies (Melbourne) 57 Assembly Drv Tullamarine, 3043, Vic, Australia
Phone+(613) 9335 3333 Fax+(613) 9338 9260

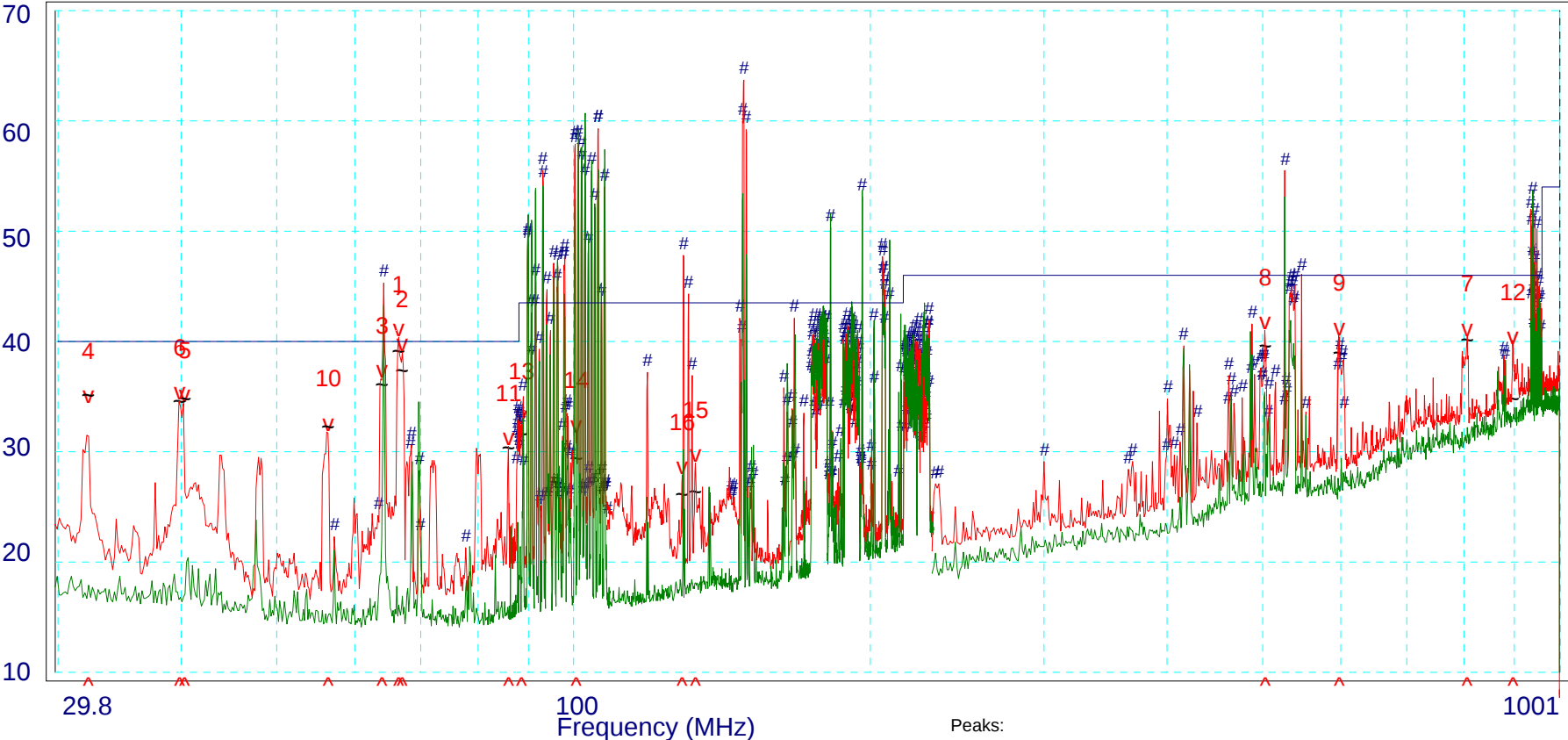
Peaks:								
No	Freq (MHz)	Peak (dBUV)	QP Val (dBUV)	FCC_BQPN dL1 (dB)	Av Val (dBUV)	FCC_BAVN dL2 (dB)		
1	15.90	49.8	48.8	60.0	-11.2	44.3	50.0	-5.7
2	5.806	48.1	47.3	60.0	-12.7	42.3	50.0	-7.7
3	23.85	47.3	46.6	60.0	-13.4	41.0	50.0	-9.0
4	13.85	46.3	39.8	60.0	-20.2	34.8	50.0	-15.2
5	4.696	34.8	30.9	56.0	-25.1	23.4	46.0	-22.6
6	0.150	41.5	40.1	66.0	-25.9	31.3	56.0	-24.7

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Radiated Emissions (dBuV/m)
= Ambient

Job No:m060139 p:\PCF\m060139_3.PCF
Test Date: 30/01/06

GRAPH No. 3



Rosetta Laboratories Pty Ltd
WinRadio G3 Series Receiver (PCI Version)
Tuned to 30MHz
Radiated Emissions - Vertical Polarity

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

Legend:
— Vertical Emissions

Ver 0.55 Build 112
radiated emissions site 2 lerderderg
t:A1370606_10M c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Kevin Hansen

Source:
m060139r 2 3 1 4 5 12 13 14

EMC Technologies (Melbourne) 57 Assembly Drv Tullamarine, 3043, Vic, Australia
Phone+(613) 9335 3333 Fax+(613) 9338 9260

Peaks:				
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC-B3 (dBuV/m)
1	66.47	40.4	38.3	40.0
2	67.02	39.0	36.6	40.0
3	63.93	36.6	35.3	40.0
4	32.20	34.3	34.3	40.0
5	40.33	34.4	34.0	40.0
6	39.86	34.6	33.8	40.0
7	806.29	40.4	39.3	46.0
8	502.97	41.0	38.8	46.0
9	597.92	40.5	38.1	46.0
10	56.39	31.8	31.5	40.0
11	85.93	30.5	29.5	40.0
12	897.05	39.7	34.1	46.0
13	88.57	32.5	30.9	43.5
14	100.67	31.7	28.6	43.5
15	132.97	29.0	25.6	43.5
16	128.87	27.9	25.4	43.5

dL1 (dB)
-1.7
-3.4
-4.7
-5.7
-6.0
-6.3
-6.7
-7.2
-7.9
-8.5
-10.5
-12.0
-12.7
-14.9
-17.9
-18.1

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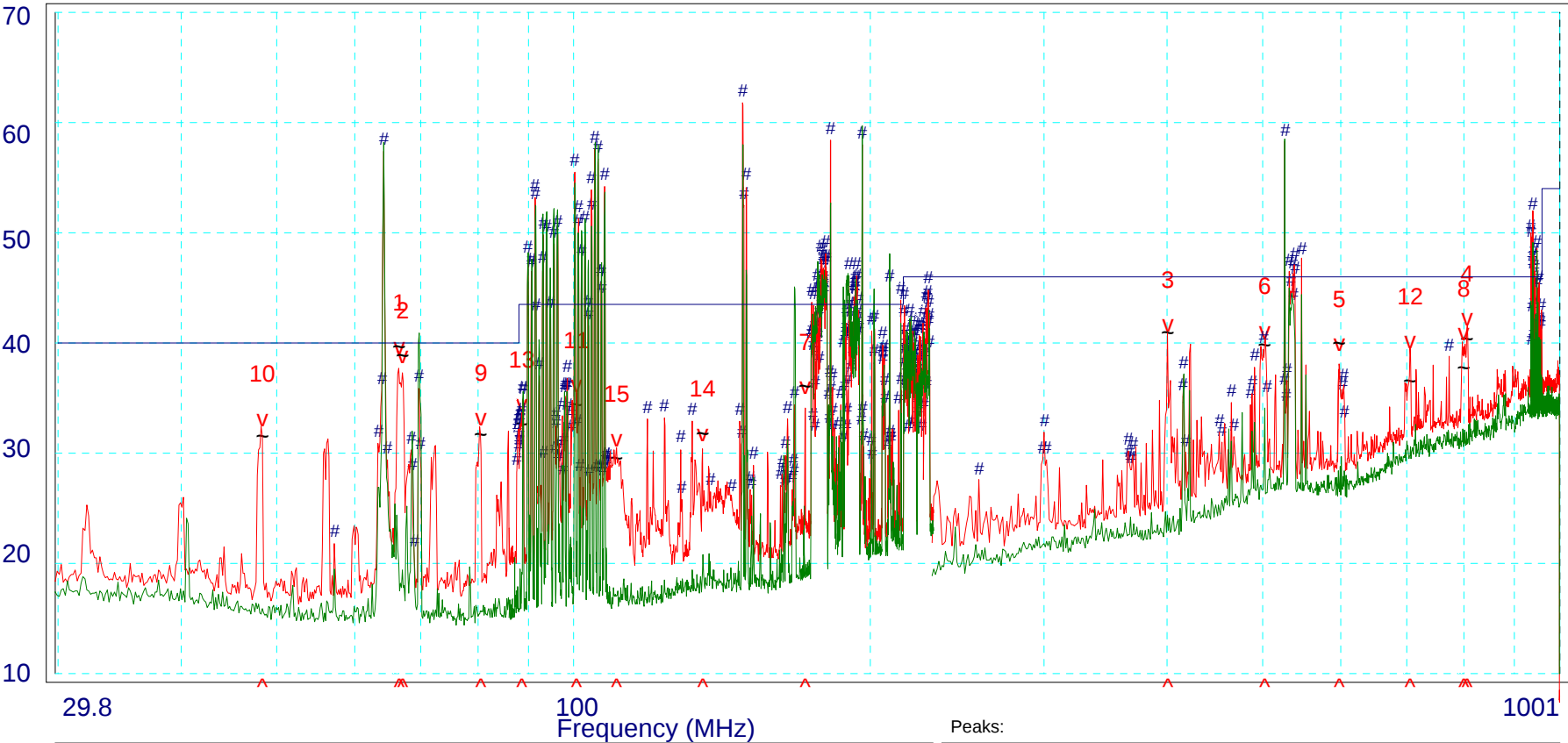
Radiated Emissions (dBuV/m)
= Ambient

Job No:m060139

p:\PCF\m060139_4.PCF

Test Date: 30/01/06

GRAPH No. 4



Rosetta Laboratories Pty Ltd
WinRadio G3 Series Receiver (PCI Version)
Tuned to 30MHz
Radiated Emissions - Horizontal Polarity

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

Legend:
— Horizontal Emissions

Ver 0.55 Build 112
radiated emissions site 2 lerderg
t:A1370606_10M c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Kevin Hansen

Source:
m060139r 6 7 8 9 10 15 16 17

EMC Technologies (Melbourne) 57 Assembly Drv Tullamarine, 3043, Vic, Australia
Phone+(613) 9335 3333 Fax+(613) 9338 9260

Peaks:					
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC-B3 (dBuV/m)	dL1 (dB)
1	66.55	38.9	38.9	40.0	-1.1
2	67.08	38.1	38.1	40.0	-1.9
3	400.88	40.9	40.2	46.0	-5.8
4	806.03	41.5	39.6	46.0	-6.4
5	598.12	39.2	39.2	46.0	-6.8
6	502.43	40.3	39.1	46.0	-6.9
7	171.84	35.3	35.3	43.5	-8.2
8	799.88	40.1	37.0	46.0	-9.0
9	80.54	32.5	30.9	40.0	-9.1
10	48.35	32.4	30.7	40.0	-9.3
11	100.69	35.5	33.6	43.5	-9.9
12	705.66	39.4	35.8	46.0	-10.2
13	88.62	33.7	31.9	43.5	-11.7
14	135.19	31.0	31.0	43.5	-12.5
15	110.60	30.6	28.8	43.5	-14.7

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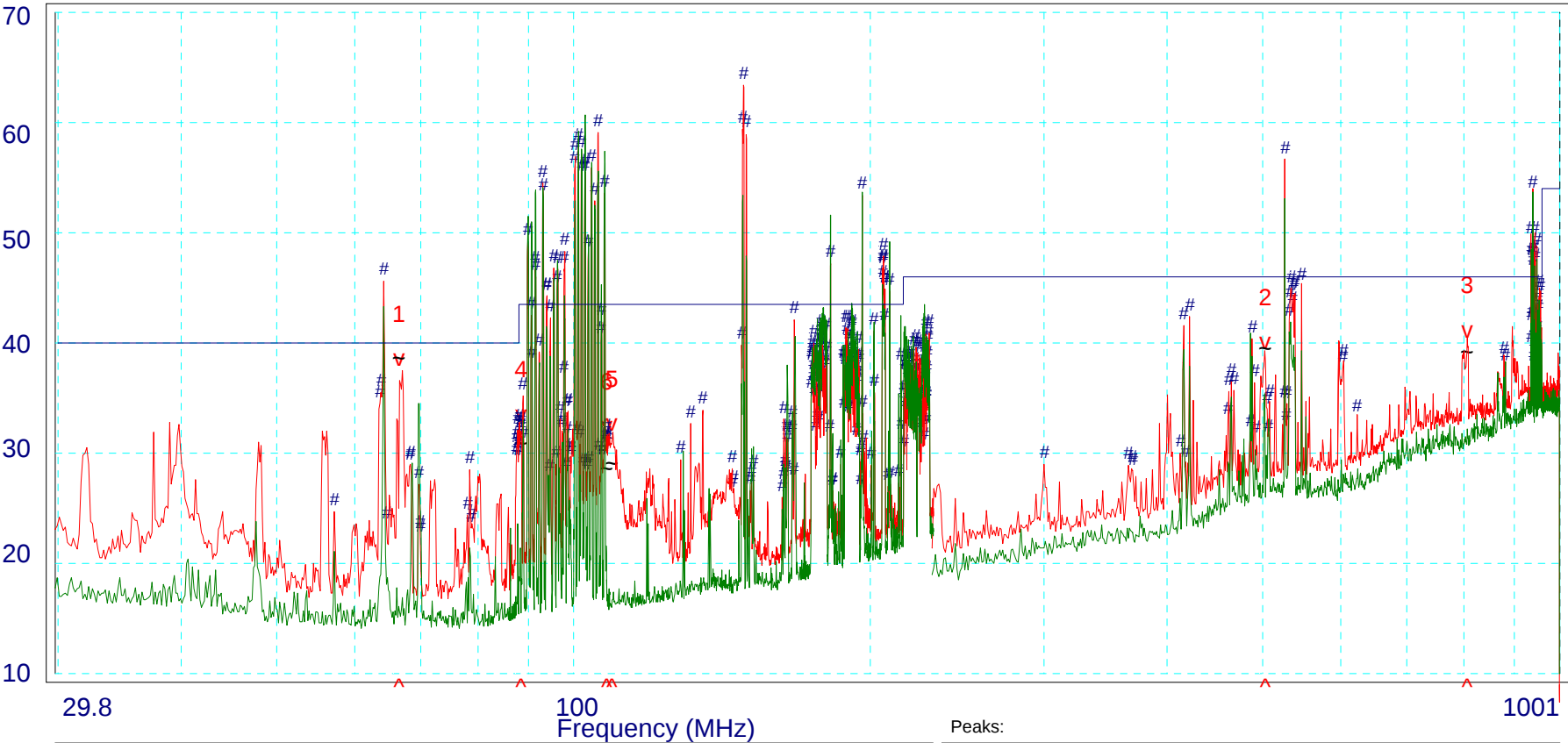
Radiated Emissions (dBUV/m)
= Ambient

Job No:m060139

p:\PCF\m060139_5.PCF

Test Date: 30/01/06

GRAPH No. 5



Rosetta Laboratories Pty Ltd
WinRadio G3 Series Receiver (PCI Version)
Tuned to 495 MHz
Radiated Emissions - Vertical Polarity

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

Legend: Vertical Emissions

Ver 0.55 Build 112
radiated emissions site 2 lerderderg
t:A1370606_10M c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Kevin Hansen

Source: m060139r 24 25 26 27 28 21 22 23

EMC Technologies (Melbourne) 57 Assembly Drv Tullamarine, 3043, Vic, Australia
Phone+(613) 9335 3333 Fax+(613) 9338 9260

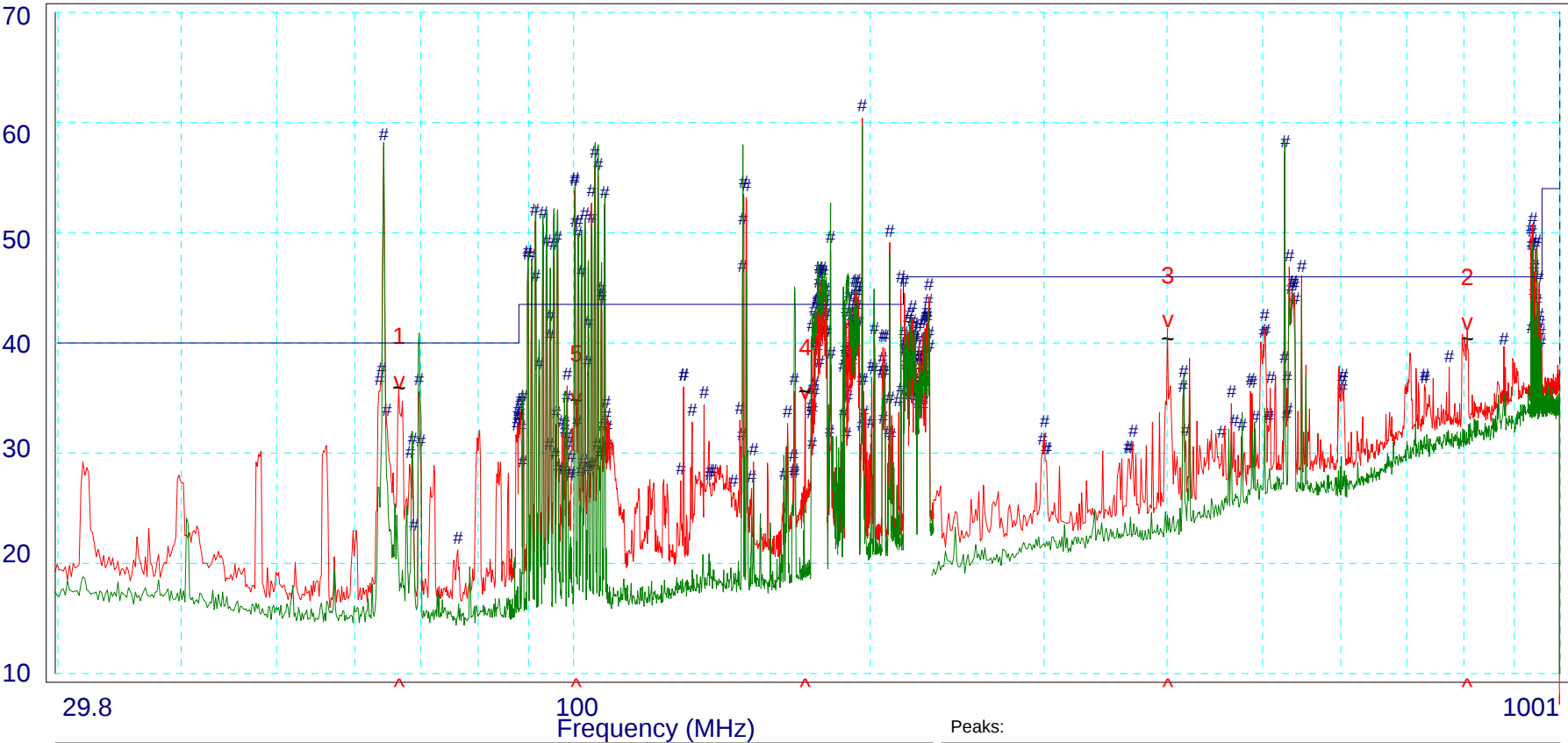
Peaks:					
No	Freq (MHz)	Peak (dBUV/m)	QP Val	FCC-B3 (dBUV/m)	dL1 (dB)
1	66.51	37.8	37.8	40.0	-2.2
2	502.97	39.3	38.7	46.0	-7.3
3	806.06	40.4	38.4	46.0	-7.6
4	88.47	32.8	30.1	43.5	-13.4
5	109.38	31.9	28.3	43.5	-15.2
6	108.04	31.7	27.8	43.5	-15.7

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Radiated Emissions (dBuV/m)
= Ambient

Job No:m060139 p:\PCF\m060139_6.PCF
Test Date: 30/01/06

GRAPH No. 6



Rosetta Laboratories Pty Ltd
WinRadio G3 Series Receiver (PCI Version)
Tuned to 495 MHz
Radiated Emissions - Horizontal Polarity

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

Legend: Horizontal Emissions

Ver 0.55 Build 112
radiated emissions site 2 lerderderg
t:A1370606_10M c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Kevin Hansen

Source: m060139r 29 30 31 32 33 18 19 20

EMC Technologies (Melbourne) 57 Assembly Drv Tullamarine, 3043, Vic, Australia
Phone+(613) 9335 3333 Fax+(613) 9338 9260

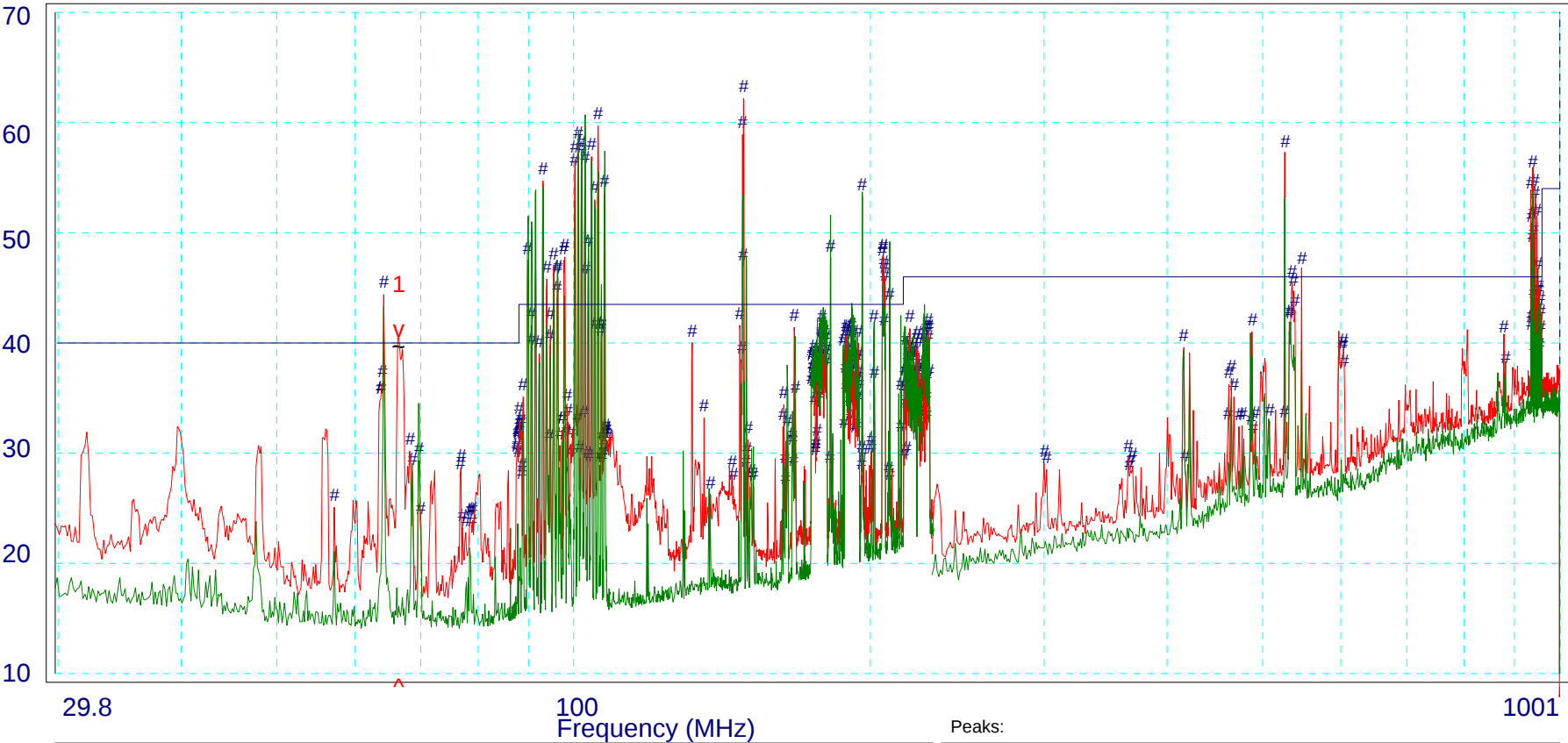
Peaks:					
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC-B3 (dBuV/m)	dL1 (dB)
1	66.56	35.8	35.1	40.0	-4.9
2	806.27	41.1	39.6	46.0	-6.4
3	400.87	41.3	39.6	46.0	-6.5
4	171.83	34.8	34.8	43.5	-8.7
5	100.67	34.3	34.0	43.5	-9.5

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Radiated Emissions (dBuV/m)
= Ambient

Job No:m060139 p:\PCF\m060139_7.PCF
Test Date: 30/01/06

GRAPH No. 7



Rosetta Laboratories Pty Ltd
WinRadio G3 Series Receiver (PCI Version)
Tuned to 960 MHz
Radiated Emissions - Vertical Polarity

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

Legend: Vertical Emissions

Ver 0.55 Build 112
radiated emissions site 2 lerderg
t:A1370606_10M c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Kevin Hansen

Source: m060139r 39 40 41 42 43 44 45 46

EMC Technologies (Melbourne) 57 Assembly Drv Tullamarine, 3043, Vic, Australia
Phone+(613) 9335 3333 Fax+(613) 9338 9260

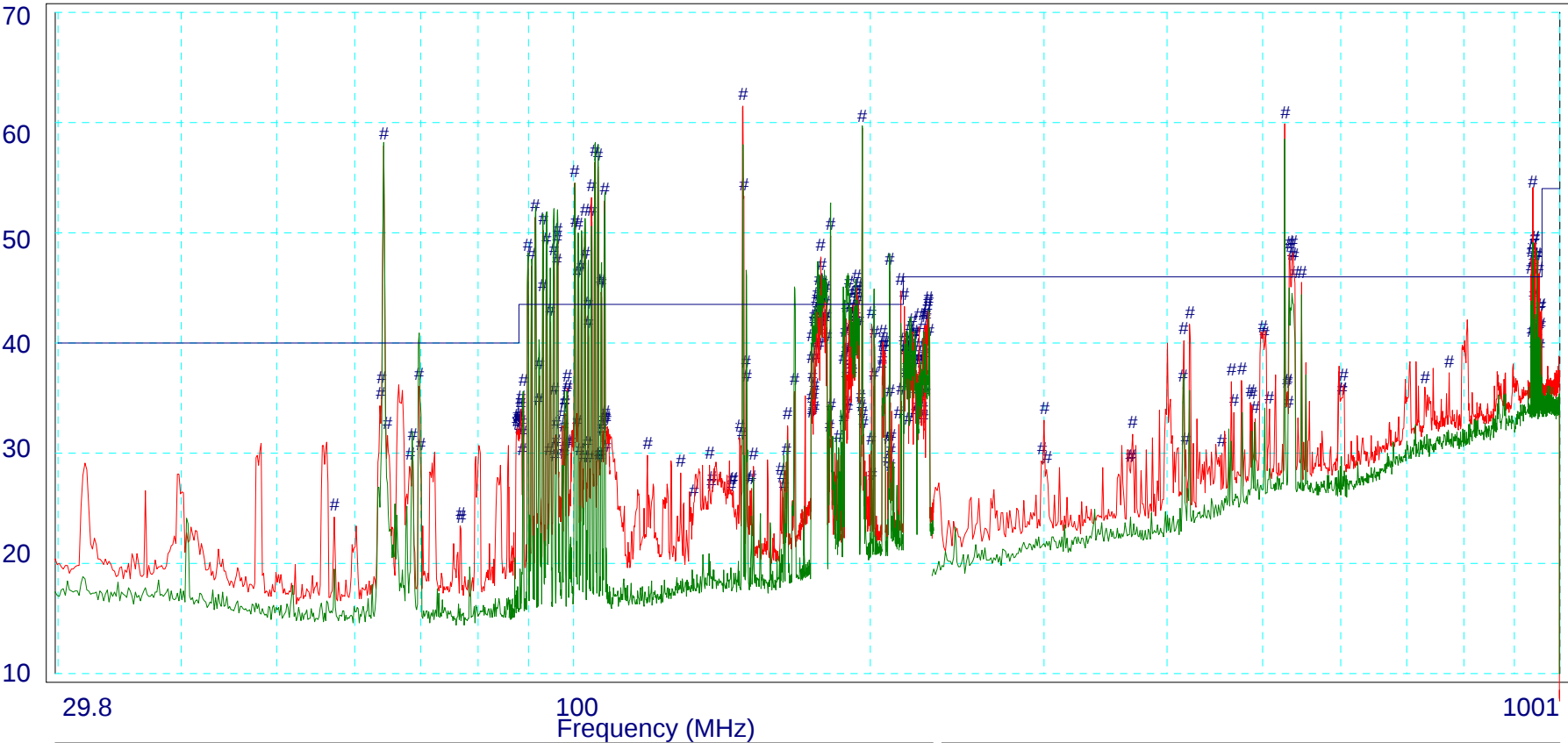
Peaks:					
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC-B3 (dBuV/m)	dL1 (dB)
1	66.49	40.5	38.9	40.0	-1.1

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Radiated Emissions (dBuV/m)
= Ambient

Job No:m060139 p:\PCF\m060139_8.PCF
Test Date: 30/01/06

GRAPH No. 8



Rosetta Laboratories Pty Ltd
WinRadio G3 Series Receiver (PCI Version)
Tuned to 960 MHz
Radiated Emissions - Horizontal Polarity

Limits: FCC-B3 FCC CLASS B RAD 3M LIMITS
Legend: Horizontal Emissions
Ver 0.55 Build 112
radiated emissions site 2 lerderg
t:A1370606_10M c1:C1701106 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Kevin Hansen
Source: m060139r 34 35 36 37 38 47 48 49

EMC Technologies (Melbourne) 57 Assembly Drv Tullamarine, 3043, Vic, Australia
Phone+(613) 9335 3333 Fax+(613) 9338 9260