

APPENDIX K
OF
TEST REPORT T60823_F

GRAPHS OF EMI MEASUREMENT

FCC ID: QVL-BT900P
Manufacturer: BQT Solutions (Australia) Pty Ltd
Test Sample: Contactless Smart Card Reader
Model: BT900-D
Serial Number: None

Date: 1st September 2006

APPENDIX K

GRAPHS OF EMI MEASUREMENT

CONDUCTED

Graph 1:	Active Line	0.145 to 30.5 MHz
Graph 2:	Neutral Line	0.145 to 30.5 MHz

RADIATED EMI

Graph 3:	Magnetic Loop Antenna	9 kHz to 30 MHz
Graph 4:	Carrier 13.56 MHz	13.552 to 13.568 MHz
Graph 5:	Vertical Antenna Polarisation	30 to 1000 MHz
Graph 6:	Horizontal Antenna Polarisation	30 to 1000 MHz

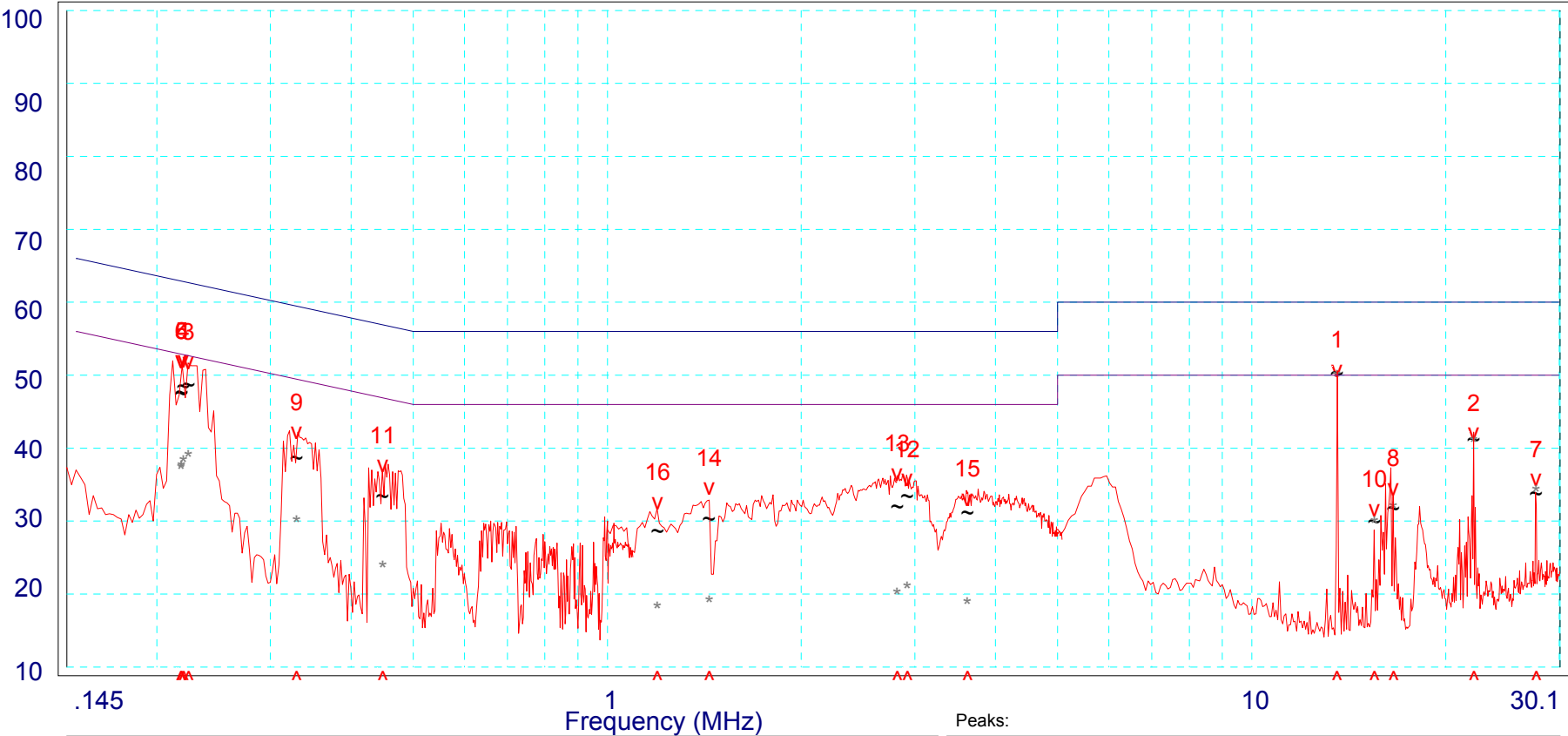
EMC Technologies Pty. Ltd. - Global Product Certification

FCC Class B
Conducted Emissions (dBuV)

Job No:T60823

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Test Date: 16-08-2006

GRAPH No. 1



BQT Solutions (Australia) Pty Ltd
Contactless smart card reader
Model No: BT 900
AC Source - 120V/60Hz

Limits:
FCCN_BQP FCC CLASS B QP CONDUCTED LIMITS (CISPR)
FCCN_BAV FCC CLASS B AV CONDUCTED LIMITS (CISPR)

Legend:
Active Line

Ver 0.55 Build 120

Source:
t:L0110107 c1:C0010906 c2:NONE p:NONE a:L0100407
Site ID: Syd Room#2,3/87 Station Rd, Seven Hills, NSW
Test Officer:Deepesh Rao

EMC Technologies (Sydney) 3/87 Station Rd, Seven Hills, NSW, 2147, NSW, Australia
Phone +(612) 9624 2777 Fax+(612) 9838 4050

Peaks:								
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCCN_BQP (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BAV (dBuV)	dL2 (dB)
1	13.56	50.6	50.0	60.0	-10.0	49.3	50.0	-7
2	22.12	42.0	40.9	60.0	-19.1	40.3	50.0	-9.7
3	0.224	51.7	48.5	62.7	-14.2	38.3	52.7	-14.4
4	0.220	51.9	48.2	62.8	-14.6	37.6	52.8	-15.2
5	0.218	51.8	47.4	62.9	-15.5	36.9	52.9	-16.0
6	0.218	51.9	47.2	62.9	-15.7	36.6	52.9	-16.3
7	27.65	35.7	33.5	60.0	-26.5	33.5	50.0	-16.5
8	16.59	34.4	31.5	60.0	-28.5	31.3	50.0	-18.7
9	0.329	42.1	38.4	59.5	-21.1	29.3	49.5	-20.2
10	15.51	31.5	29.7	60.0	-30.3	29.2	50.0	-20.8
11	0.448	37.6	33.1	56.9	-23.8	23.1	46.9	-23.8
12	2.920	35.7	33.2	56.0	-22.8	20.3	46.0	-25.7
13	2.818	36.4	31.7	56.0	-24.3	19.4	46.0	-26.6
14	1.439	34.5	30.1	56.0	-25.9	18.4	46.0	-27.6
15	3.623	33.0	31.0	56.0	-25.0	18.1	46.0	-27.9
16	1.196	32.5	28.4	56.0	-27.6	17.5	46.0	-28.5

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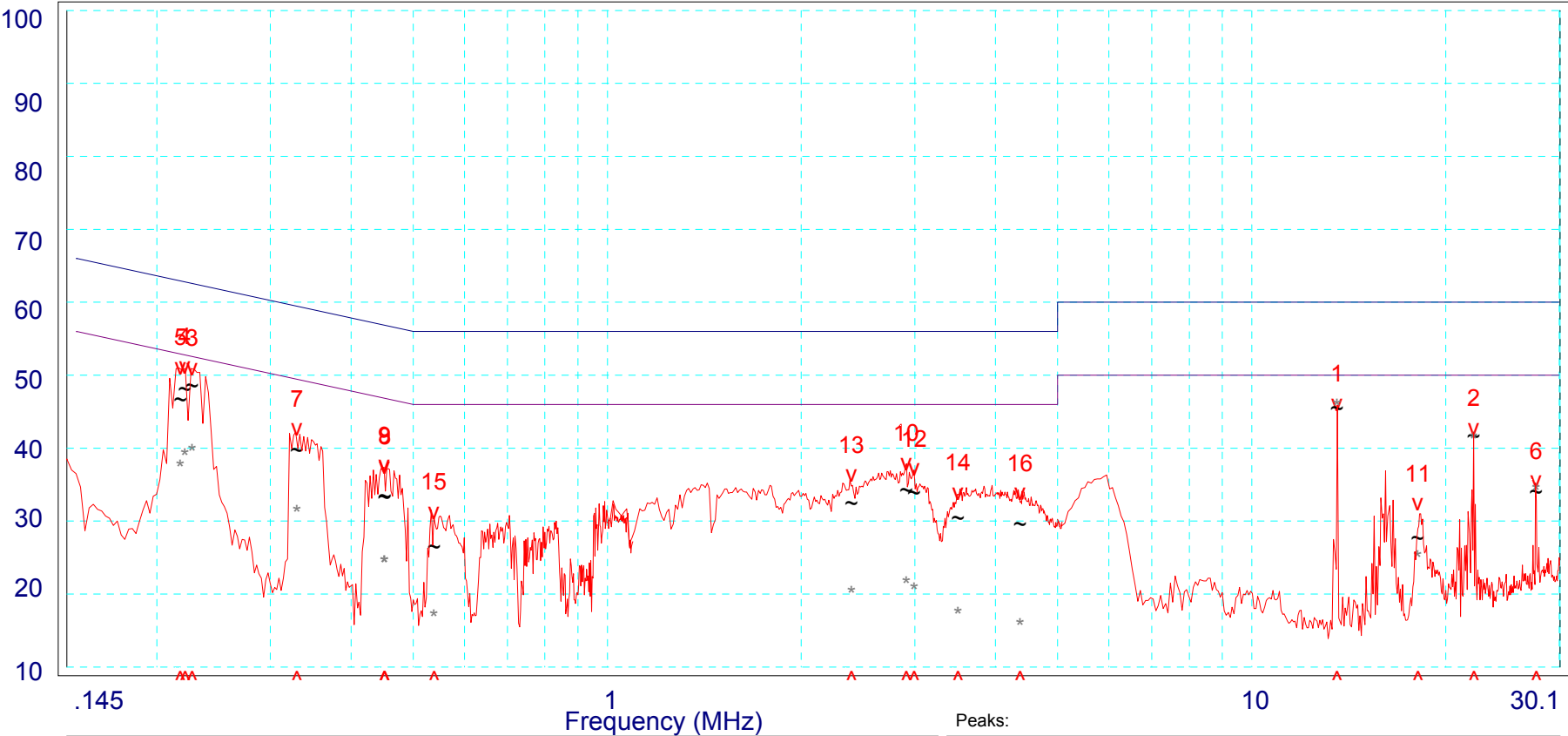
FCC Class B
Conducted Emissions (dBuV)

Job No:T60823

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Test Date: 16-08-2006

GRAPH No. 2



BQT Solutions (Australia) Pty Ltd
Contactless smart card reader
Model No: BT 900
AC Source - 120V/60Hz

Limits:
FCCN_BQP FCC CLASS B QP CONDUCTED LIMITS (CISPR)
FCCN_BAV FCC CLASS B AV CONDUCTED LIMITS (CISPR)

Legend:
— Neutral Line

Source:
t:L0110107 c1:C0010906 c2:NONE p:NONE a:L0100407
Site ID: Syd Room#2,3/87 Station Rd, Seven Hills, NSW
Test Officer:Deepesh Rao

Ver 0.55 Build 120

EMC Technologies (Sydney) 3/87 Station Rd, Seven Hills, NSW, 2147, NSW, Australia
Phone +(612) 9624 2777 Fax+(612) 9838 4050

No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCCN_BQP (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BAV (dBuV)	dL2 (dB)
1	13.56	46.0	45.3	60.0	-14.7	45.4	50.0	-4.6
2	22.12	42.6	41.4	60.0	-18.6	40.8	50.0	-9.2
3	0.227	50.8	48.3	62.6	-14.3	39.1	52.6	-13.5
4	0.221	51.1	47.9	62.8	-14.9	38.5	52.8	-14.3
5	0.217	51.0	46.4	62.9	-16.5	37.0	52.9	-15.9
6	27.65	35.4	33.8	60.0	-26.2	33.8	50.0	-16.2
7	0.330	42.6	39.5	59.5	-20.0	30.8	49.5	-18.7
8	0.451	37.4	33.2	56.9	-23.6	23.9	46.9	-23.0
9	0.451	37.5	33.1	56.9	-23.7	23.9	46.9	-23.0
10	2.911	37.8	34.0	56.0	-22.0	21.0	46.0	-25.0
11	18.11	32.3	27.5	60.0	-32.5	24.6	50.0	-25.4
12	2.993	37.1	33.7	56.0	-22.3	20.2	46.0	-25.8
13	2.392	36.2	32.3	56.0	-23.7	19.7	46.0	-26.3
14	3.500	33.8	30.1	56.0	-25.9	16.8	46.0	-29.2
15	0.538	31.2	26.3	56.0	-29.7	16.4	46.0	-29.6
16	4.370	33.7	29.4	56.0	-26.6	15.3	46.0	-30.7

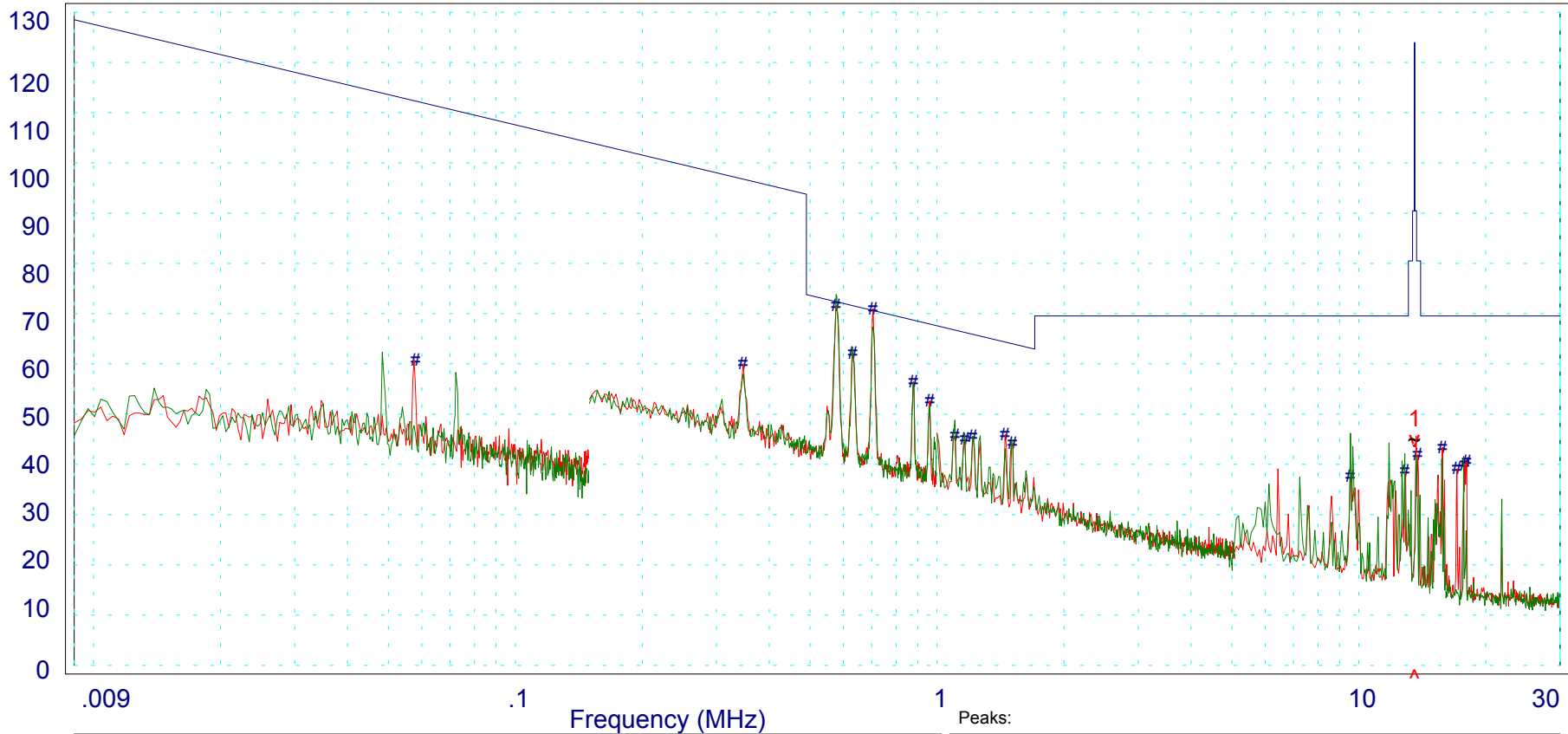
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FCC Class B
Radiated Emissions (dBuV/m)
= Ambient

Job No:T60823

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Test Date: 14-08-06

GRAPH No. 3



BQT Solutions (Australia) Pty Ltd
Contactless Smartcard Reader
Model: BT900-D

Limits:
FCC_loop_3mFcc Pt15 Subpart C Section 15.209(a) 3Metre Limits

Legend:
— Ambients
— Emissions

Source:
rtsVAMBe 1 2 3 4
T60823r2 1 2 3 4

Ver 5.5 Build 107
Colo Radiated Test Setup Active Loop
t:A0080408E c1:C0201206 c2:NONE p:NONE a:NONE
Site ID: OATS#1,1247 Upper Colo Rd. Colo, NSW
Test Officer: Bruce Holdsworth

EMC Technologies (Sydney) 3/87 Station Rd, Seven Hills, NSW, 2147, NSW, Australia
Phone +(612) 9624 2777 Fax+(612) 9838 4050

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCC_loop_3dL1 (dBuV/m)	3dL1 (dB)
1	13.56	45.7	45.4	124.0	-78.6

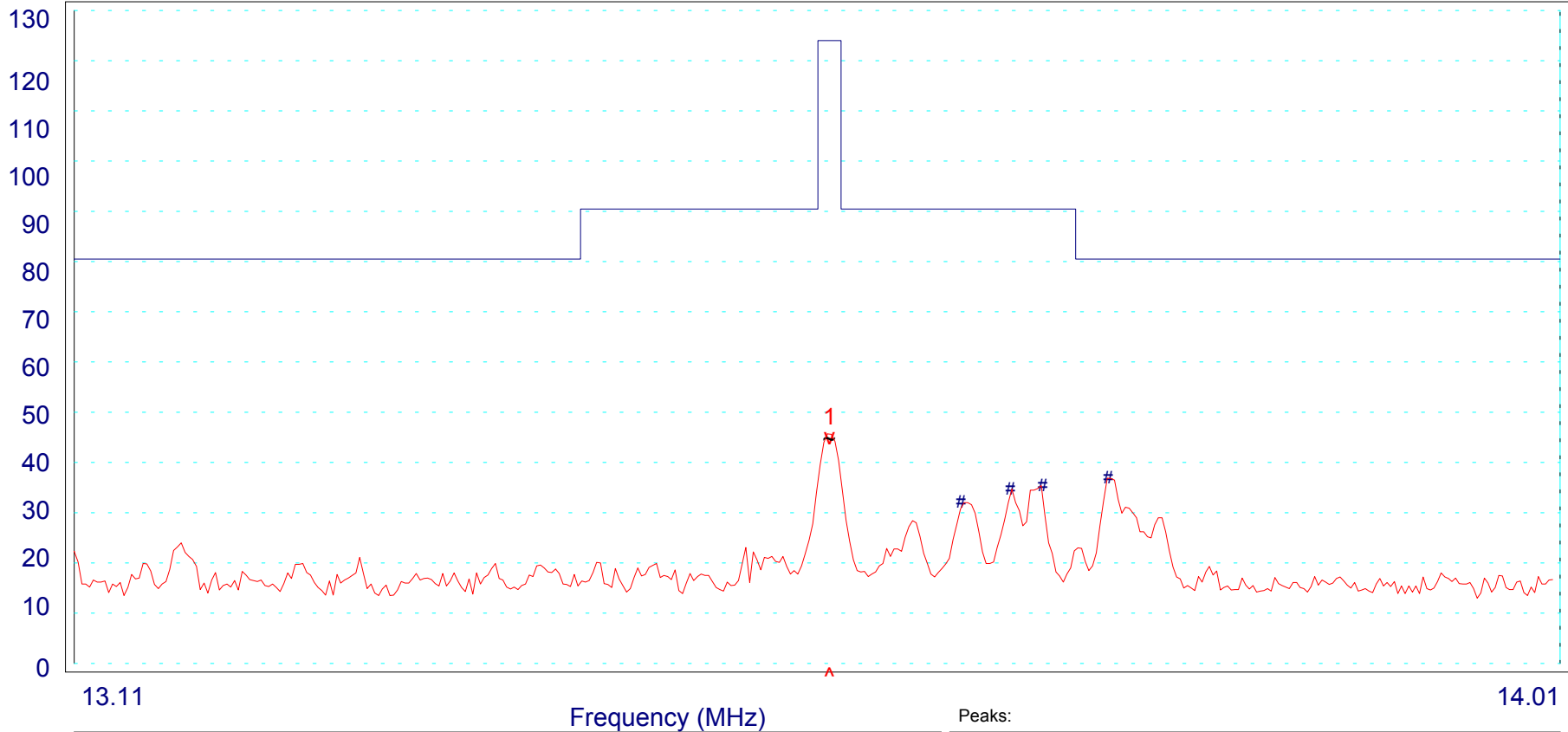
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FCC Class B
Radiated Emissions (dBUV/m)
= Ambient

Job No:T60823

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Test Date: 14-08-06

GRAPH No. 4



BQT Solutions (Australia) Pty Ltd
Contactless Smartcard Reader
Model: BT900-D

Peaks:					
No	Freq (MHz)	Peak (dBUV/m)	Qp Val	FCC_loop_3dL1 (dBUV/m)	3dL1 (dB)
1	13.56	45.7	45.3	124.0	-78.7

Limits:
FCC_loop_3mFcc Pt15 Subpart C Section 15.209(a) 3Metre Limits

Legend:
Carrier

Ver 5.5 Build 107
Colo Radiated Test Setup Active Loop
t:A0080408E c1:C0201206 c2:NONE p:NONE a:NONE
Site ID: OATS#1,1247 Upper Colo Rd. Colo, NSW
Test Officer: Bruce Holdsworth

Source:
T60823r2 5

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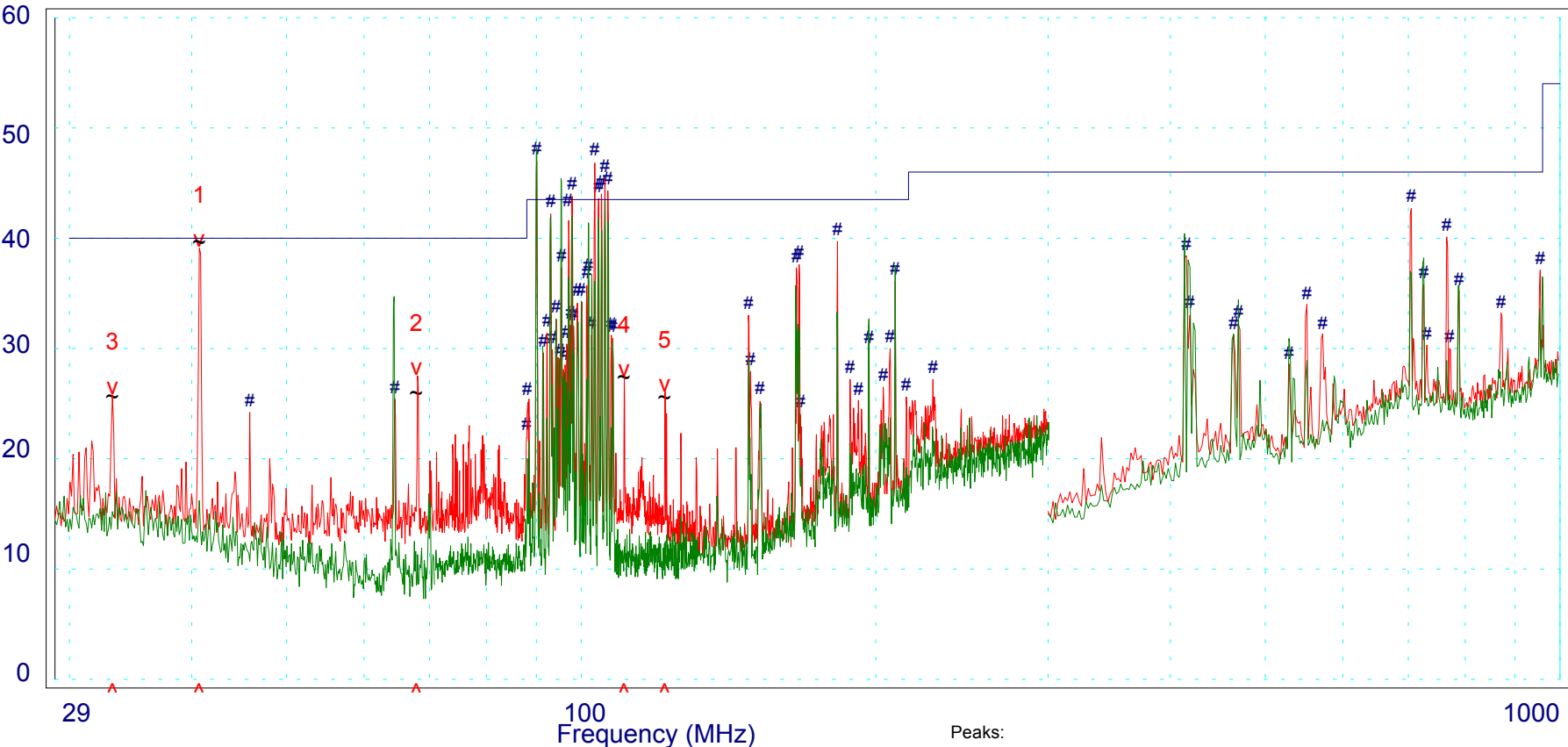
FCC Class B
Radiated Emissions (dBUV/m)
= Ambient

Job No:T60823

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Test Date: 15-08-06

GRAPH No. 5



BQT Solutions (Australia) Pty Ltd
Contactless Smartcard Reader
Model: BT900-D

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

Legend:
— Vertical Ambients
— Vertical Emissions

Ver 5.5 Build 107
Colo Radiated Test Setup
t:A0690207 c1:C0200207 c2:NONE p:A0960906 a:NONE
Site ID: OATS#1,1247 Upper Colo Rd. Colo, NSW
Test Officer: Bruce Holdsworth

Source:
V Amb 1108 1 2 3 4 5 11
T60823r3 1 2 3 4 5 11

Peaks:					
No	Freq (MHz)	Peak (dBUV/m)	Qp Val	FCC-B3 (dBUV/m)	dL1 (dB)
1	40.69	39.1	38.8	40.0	-1.2
2	67.84	27.5	25.1	40.0	-14.9
3	33.18	25.8	24.8	40.0	-15.2
4	110.61	27.3	26.5	43.5	-17.0
5	121.67	26.0	24.7	43.5	-18.8

EMC Technologies (Sydney) 3/87 Station Rd, Seven Hills, NSW, 2147, NSW, Australia
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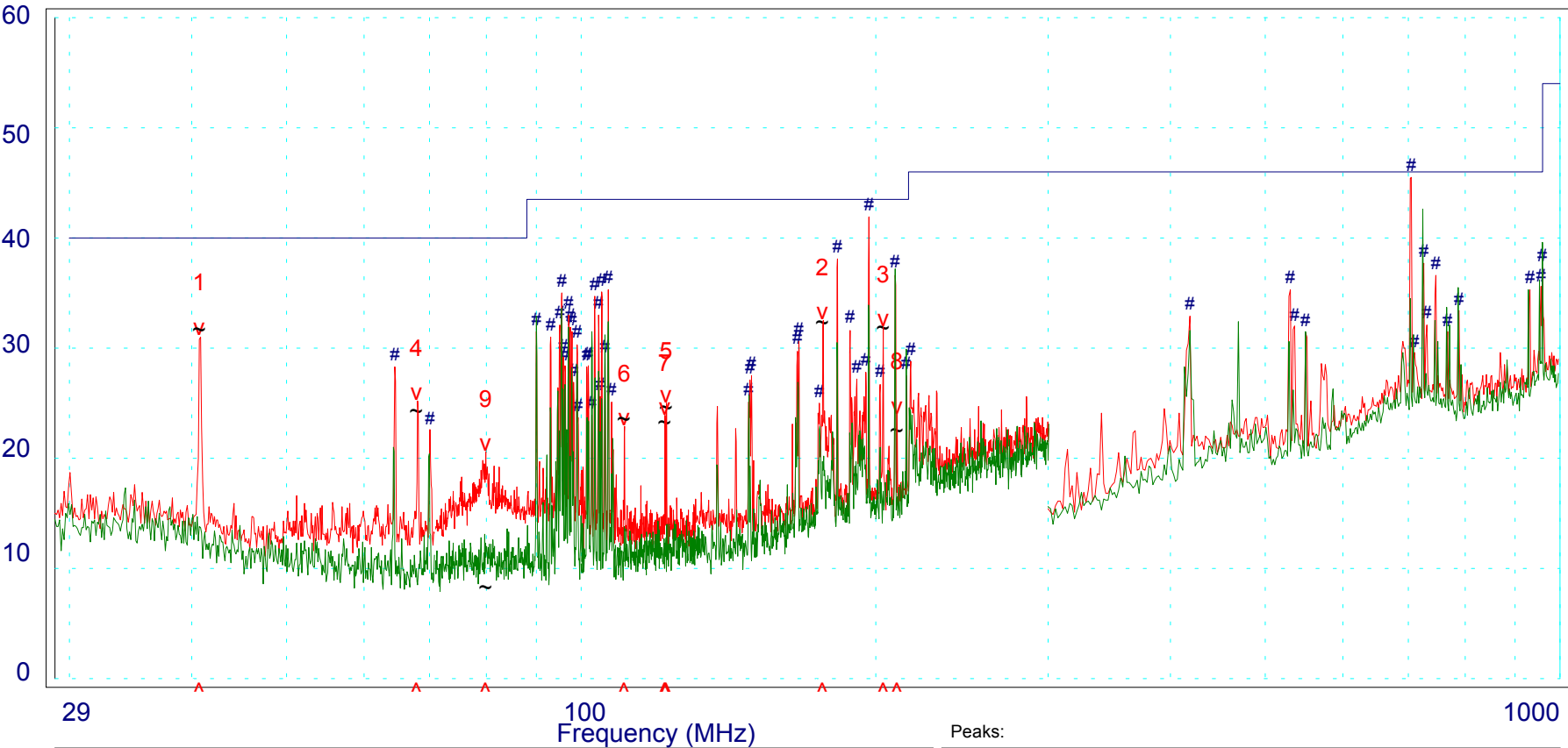
FCC Class B
Radiated Emissions (dBUV/m)
= Ambient

Job No:T60823

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Test Date: 15-08-06

GRAPH No. 6



BQT Solutions (Australia) Pty Ltd
Contactless Smartcard Reader
Model: BT900-D

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

Legend:
— Horizontal Ambients
— Horizontal Emissions

Source:
V Amb1108 6 7 8 9 10 12
T60823r3 6 7 8 9 10 12

Ver 5.5 Build 107
Colo Radiated Test Setup
t:A0690207 c1:C0200207 c2:NONE p:A0960906 a:NONE
Site ID: OATS#1,1247 Upper Colo Rd. Colo, NSW
Test Officer: Bruce Holdsworth

EMC Technologies (Sydney) 3/87 Station Rd, Seven Hills, NSW, 2147, NSW, Australia
Phone +(612) 9624 2777 Fax+(612) 9838 4050

Peaks:					
No	Freq (MHz)	Peak (dBUV/m)	Qp Val	FCC-B3 (dBUV/m)	dL1 (dB)
1	40.69	31.1	30.9	40.0	-9.1
2	176.28	32.5	31.5	43.5	-12.0
3	203.41	31.9	31.0	43.5	-12.5
4	67.84	25.2	23.5	40.0	-16.5
5	122.05	25.0	23.8	43.5	-19.7
6	110.61	22.9	22.8	43.5	-20.7
7	121.66	23.9	22.4	43.5	-21.1
8	210.15	24.0	21.7	43.5	-21.8
9	79.81	20.6	7.4	40.0	-32.6