

APPENDIX I

GRAPHS of EMI MEASUREMENTS

Conducted Emissions:

Graph 1:	Active Line	0.145 to 30.5 MHz
	antenna terminals connected to antenna	
Graph 2:	Neutral Line	0.145 to 30.5 MHz
	antenna terminals connected to antenna	
Graph 3:	Active Line	0.145 to 30.5 MHz
	antenna terminals terminated	
Graph 4:	Neutral Line	0.145 to 30.5 MHz
	antenna terminals terminated	

Radiated Emissions:

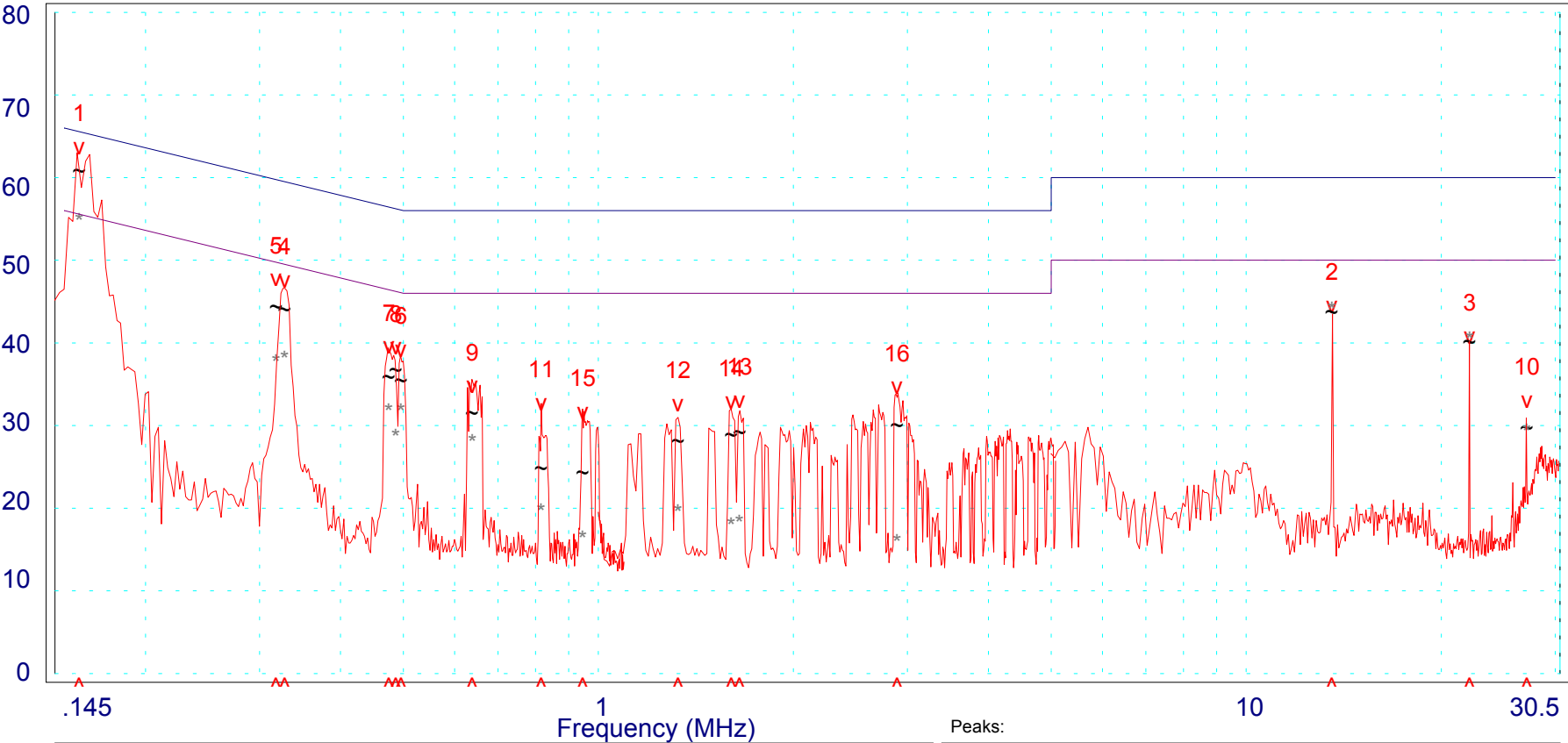
Graph 5:	Ambients	0.009 to 30 MHz
Graph 6:	Carrier	13.55 to 13.57 MHz
Graph 7:	Vertical Polarisation	29 to 1000 MHz
Graph 8:	Horizontal Polarisation	29 to 1000 MHz

EMC Technologies Pty. Ltd. - Global Product Certification

FCC Class B
Conducted Emissions (dBuV)

Job No:T50314F p:\PCF\T50314f_1.PCF
Test Date: 24/5/05

GRAPH No. 1



BQT Solutions Limited
Smart Card Reader
Model: BT815
Antenna terminals connected to antenna.

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

Legend:
Active Line

Ver 5.5 Build 107
Generic file for any test.
t:L0110705 c1:C0020905 c2:NONE p:NONE a:L0030705
Site ID: Syd Room#2
Test Officer:Jodie Foyle

Source:
T50314Cx 1 2 3

EMC Technologies (Sydney) 16/6 Gladstone Rd, Castle Hill, NSW, 2153, NSW, Australia
Phone +(612) 9899 4599 Fax+(612) 9899 4019

Peaks:								
No	Freq (MHz)	Peak (dBuV)	Qp Val (dBuV)	FCCN_BQP (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BAV (dBuV)	dL2 (dB)
1	0.158	63.4	60.4	65.6	-5.1	54.2	55.6	-1.4
2	13.56	44.2	43.3	60.0	-16.7	43.5	50.0	-6.5
3	22.12	40.5	39.7	60.0	-20.3	39.9	50.0	-10.1
4	0.328	47.2	43.7	59.5	-15.9	37.6	49.5	-11.9
5	0.318	47.4	43.9	59.8	-15.8	37.1	49.8	-12.7
6	0.496	38.9	35.0	56.1	-21.0	31.2	46.1	-14.9
7	0.475	39.2	35.5	56.4	-20.9	31.2	46.4	-15.2
8	0.487	39.1	36.3	56.2	-20.0	28.1	46.2	-18.1
9	0.639	34.5	31.1	56.0	-24.9	27.5	46.0	-18.5
10	27.12	32.7	29.3	60.0	-30.7	28.8	50.0	-21.2
11	0.816	32.4	24.4	56.0	-31.6	19.1	46.0	-26.9
12	1.327	32.3	27.7	56.0	-28.3	19.0	46.0	-27.0
13	1.652	32.7	28.8	56.0	-27.2	17.7	46.0	-28.3
14	1.603	32.5	28.4	56.0	-27.6	17.4	46.0	-28.6
15	0.946	31.3	23.9	56.0	-32.1	15.8	46.0	-30.2
16	2.891	34.3	29.6	56.0	-26.4	15.4	46.0	-30.6

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FCC Class B
Conducted Emissions (dBuV)

Job No:T50314F p:\PCF\T50314f_2.PCF
Test Date: 11/03/05

GRAPH No. 2



BQT Solutions Limited
Smart Card Reader
Model: BT815
Antenna terminals connected to antenna.

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

Legend:
— Neutral Line

Ver 5.5 Build 107
Generic file for any test.
t:L0110705 c1:C0020905 c2:NONE p:NONE a:L0030705
Site ID: Syd Room#2,
Test Officer:Kumar Thambiah

Source:
T50314Cx 4 5 6

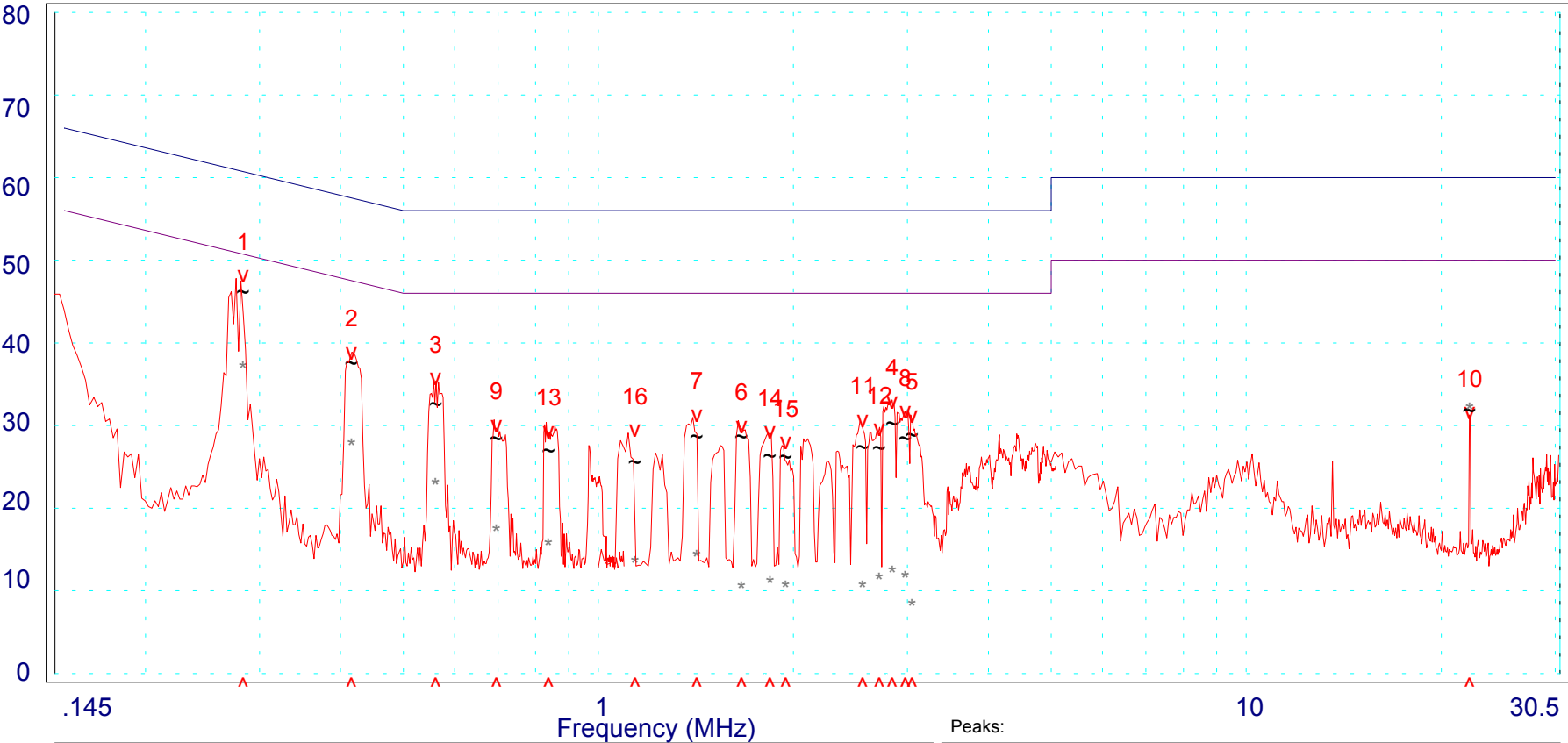
Peaks:								
No	Freq (MHz)	Peak (dBuV)	Qp Val (dBuV)	FCCN_BQP (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BAV (dBuV)	dL2 (dB)
1	13.56	51.5	51.0	60.0	-9.0	51.3	50.0	1.3
2	0.158	61.7	58.4	65.6	-7.1	53.6	55.6	-2.0
3	22.12	40.7	40.0	60.0	-20.0	40.2	50.0	-9.8
4	0.321	45.5	41.9	59.7	-17.8	36.2	49.7	-13.5
5	0.330	45.5	41.8	59.5	-17.7	35.1	49.5	-14.4
6	0.476	36.9	32.7	56.4	-23.7	25.9	46.4	-20.5
7	1.655	34.3	30.6	56.0	-25.4	19.8	46.0	-26.2
8	0.644	30.1	22.6	56.0	-33.4	18.2	46.0	-27.8
9	1.589	33.7	29.4	56.0	-26.6	17.3	46.0	-28.7
10	2.146	34.3	30.1	56.0	-25.9	17.2	46.0	-28.8
11	2.468	34.8	31.2	56.0	-24.8	17.0	46.0	-29.0
12	2.568	34.2	29.0	56.0	-27.0	17.0	46.0	-29.0
13	0.639	30.0	25.0	56.0	-31.0	16.7	46.0	-29.3
14	2.070	33.9	28.9	56.0	-27.1	16.2	46.0	-29.8
15	2.646	34.0	29.8	56.0	-26.2	15.9	46.0	-30.1
16	1.970	33.1	29.6	56.0	-26.4	14.7	46.0	-31.3

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FCC Class B
Conducted Emissions (dBuV)

Job No:T50314F p:\PCF\T50314f_3.PCF
Test Date: 11/03/05

GRAPH No. 3



BQT Solutions Limited
Smart Card Reader
Model: BT815
Antenna terminals terminated.

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

Legend:
Active Line

Ver 5.5 Build 107
Generic file for any test.
t:L0110705 c1:C0020905 c2:NONE p:NONE a:L0030705
Site ID: Syd Room#2
Test Officer:Kumar Thambiah

Source:
T50314Cx 7 8 9

Peaks:								
No	Freq (MHz)	Peak (dBuV)	Qp Val (dBuV)	FCCN_BQPdL1 (dB)	Av Val (dBuV)	FCCN_BAVdL2 (dB)		
1	0.283	47.8	45.7	60.7	-15.0	36.3	50.7	-14.4
2	0.416	38.5	37.1	57.5	-20.4	27.0	47.5	-20.5
3	0.561	35.4	32.2	56.0	-23.8	22.2	46.0	-23.8
4	2.843	32.6	29.9	56.0	-26.2	11.6	46.0	-34.4
5	3.049	30.9	28.4	56.0	-27.6	7.5	46.0	-38.5
6	1.663	29.6	28.2	56.0	-27.8	9.6	46.0	-36.4
7	1.419	31.0	28.2	56.0	-27.8	13.5	46.0	-32.5
8	2.977	31.4	28.0	56.0	-28.0	10.9	46.0	-35.1
9	0.696	29.7	28.0	56.0	-28.0	16.6	46.0	-29.4
10	22.12	31.3	31.4	60.0	-28.6	31.3	50.0	-18.7
11	2.558	30.4	26.9	56.0	-29.1	9.8	46.0	-36.2
12	2.715	29.3	26.8	56.0	-29.2	10.7	46.0	-35.3
13	0.838	29.0	26.5	56.0	-29.5	14.8	46.0	-31.2
14	1.841	28.9	25.9	56.0	-30.2	10.3	46.0	-35.7
15	1.946	27.7	25.8	56.0	-30.2	9.7	46.0	-36.3
16	1.139	29.1	25.2	56.0	-30.8	12.7	46.0	-33.3

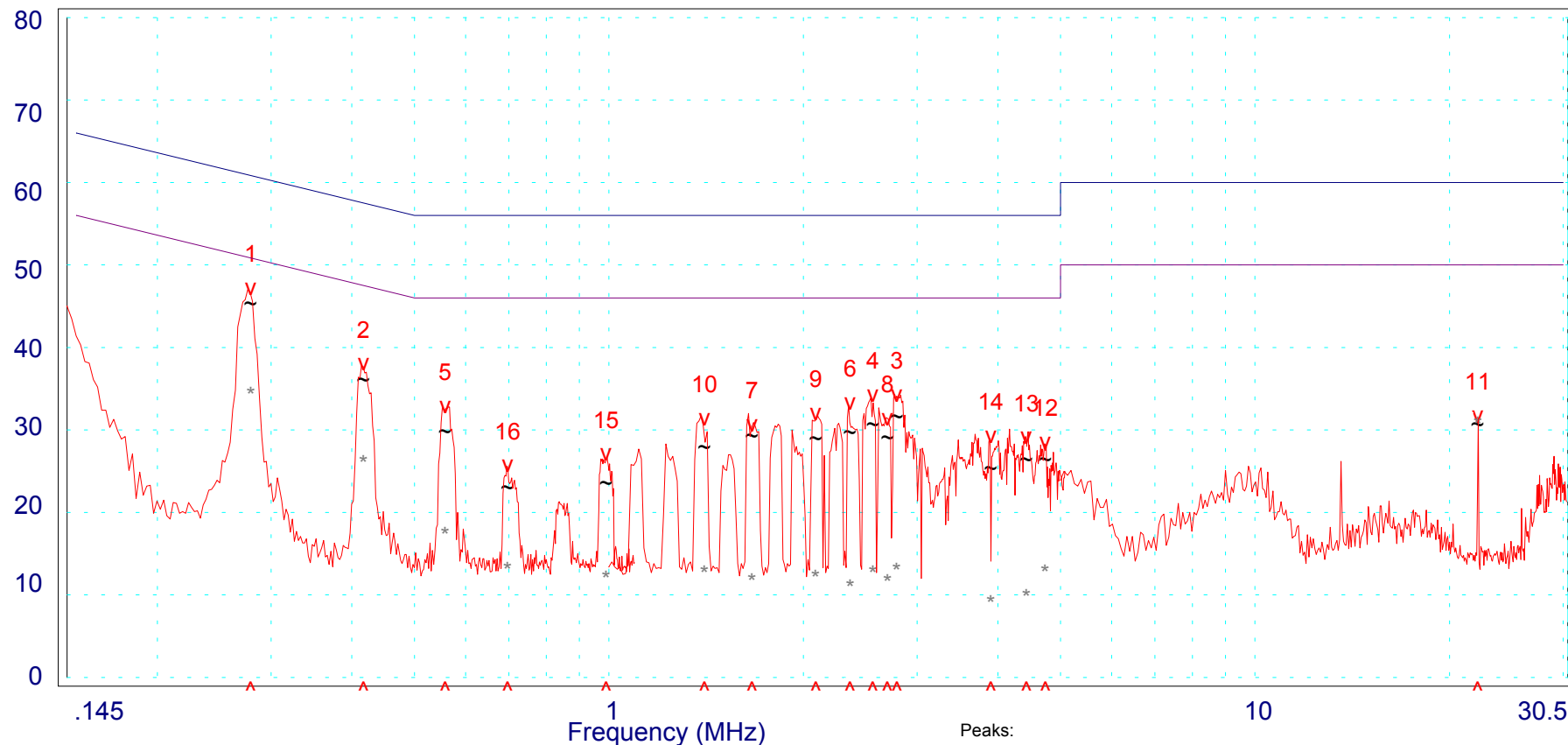
EMC Technologies Pty. Ltd. - Global Product Certification

FCC Class B
Conducted Emissions (dBuV)

Job No:T50314F p:\PCF\T50314f_4.PCF

Test Date: 11/03/05

GRAPH No. 4



BQT Solutions Limited
Smart Card Reader
Model: BT815
Antenna terminals terminated.

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

Legend:
— Neutral Line

Ver 5.5 Build 107
Generic file for any test.
t:L0110705 c1:C0020905 c2:NONE p:NONE a:L0030705
Site ID: Syd Room#2
Test Officer:Kumar Thambiah

Source:
T50314Cx 10 11 12

EMC Technologies (Sydney) 16/6 Gladstone Rd, Castle Hill, NSW, 2153, NSW, Australia
Phone +(612) 9899 4599 Fax+(612) 9899 4019

Peaks:

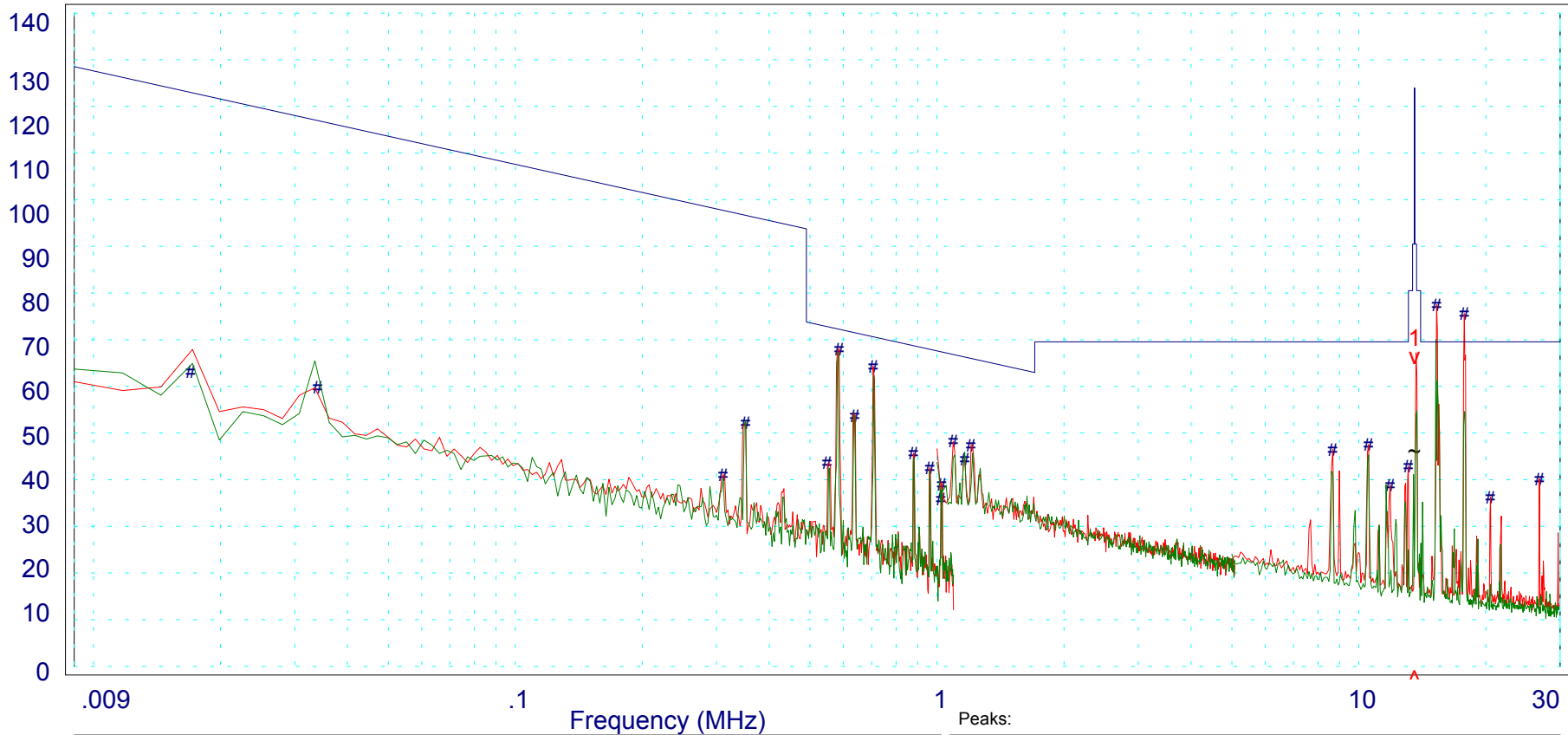
No	Freq (MHz)	Peak (dBuV)	Qp Val (dBuV)	FCCN_BQP (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BAV (dBuV)	dL2 (dB)
1	0.279	46.9	44.9	60.8	-15.9	33.8	50.8	-17.0
2	0.417	37.7	35.7	57.5	-21.8	25.5	47.5	-22.0
3	2.790	33.9	31.3	56.0	-24.8	12.4	46.0	-33.6
4	2.562	33.9	30.3	56.0	-25.7	12.1	46.0	-33.9
5	0.558	32.6	29.4	56.0	-26.6	16.8	46.0	-29.2
6	2.362	33.0	29.3	56.0	-26.7	10.4	46.0	-35.6
7	1.665	30.4	28.9	56.0	-27.1	11.1	46.0	-34.9
8	2.699	31.1	28.7	56.0	-27.4	11.0	46.0	-35.0
9	2.090	31.7	28.5	56.0	-27.5	11.6	46.0	-34.4
10	1.406	31.1	27.5	56.0	-28.5	12.1	46.0	-33.9
11	22.12	31.4	30.3	60.0	-29.7	30.1	50.0	-19.9
12	4.735	28.3	26.1	56.0	-30.0	12.2	46.0	-33.8
13	4.428	28.8	26.0	56.0	-30.0	9.2	46.0	-36.8
14	3.901	29.0	24.9	56.0	-31.1	8.5	46.0	-37.5
15	0.990	26.8	23.2	56.0	-32.9	11.4	46.0	-34.6
16	0.697	25.4	22.6	56.0	-33.5	12.5	46.0	-33.5

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

Job No:T50314F p:\PCF\T50314f_5.PCF
Test Date: 12/1/05

GRAPH No. 5



BQT Solutions Limited
Smart Card Reader
Model: BT815

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

Legend:
— Ambients
— Emissions

Ver 5.5 Build 107
Colo Radiated Test Setup Active Loop
t:A0081204E c1:C0201105 c2:NONE p:NONE a:NONE
Site ID: OATS#1,1247 Upper Colo Rd. Colo, NSW
Test Officer: Bruce Holdsworth

EMC Technologies (Sydney) 16/6 Gladstone Rd, Castle Hill, NSW, 2153, NSW, Australia
Phone +(612) 9899 4599 Fax+(612) 9899 4019

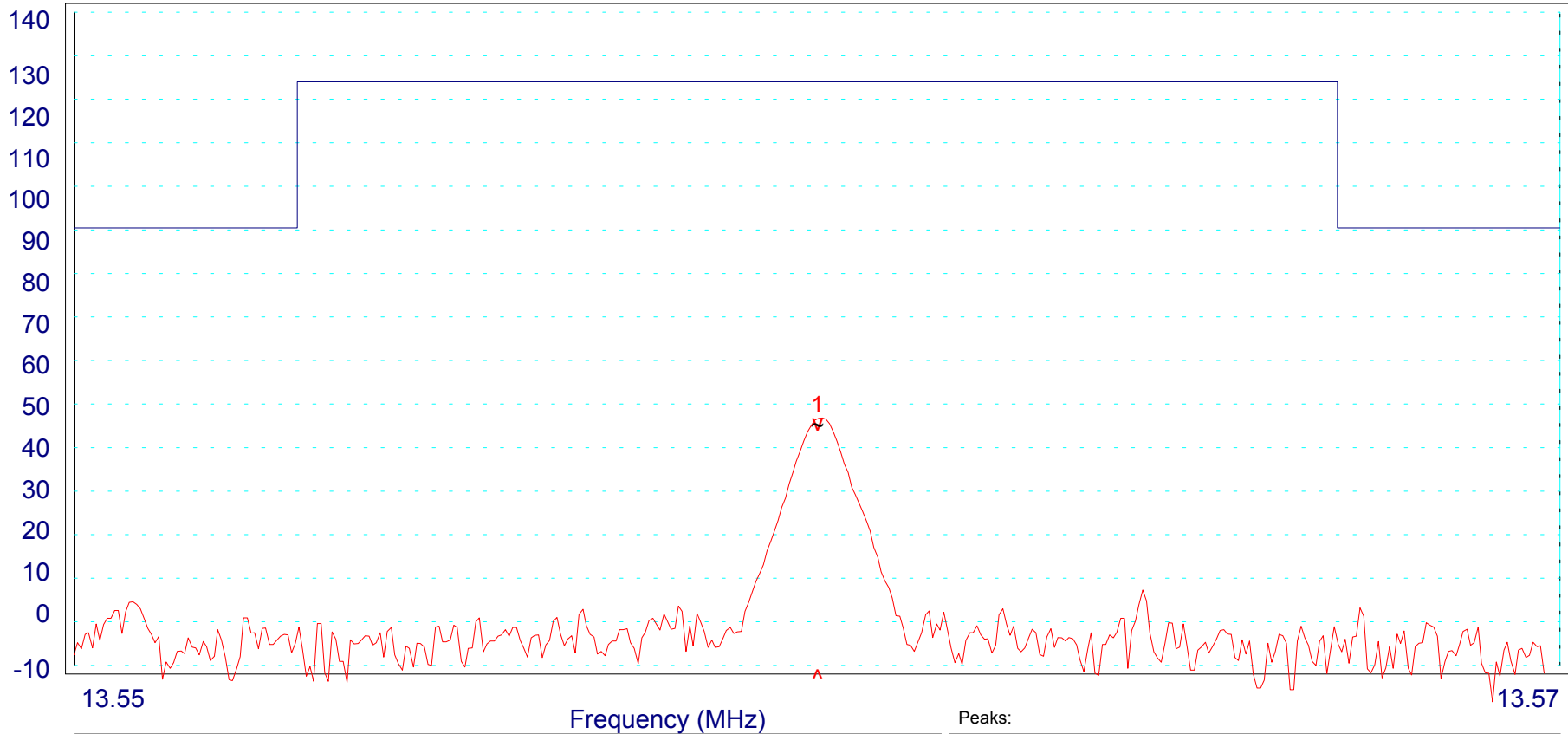
Peaks:				
No	Freq (MHz)	Peak (dBuV)	FCC_loop_3dL1 (dBuV)	3dL1 (dB)
1	13.56	67.2	124.0	-56.9

EMC Technologies Pty. Ltd. - Global Product Certification

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

Job No:T50314F p:\PCF\T50314f_6.PCF
Test Date: 12/1/05

GRAPH No. 6



BQT Solutions Limited
Smart Card Reader
Model: BT815

Peaks:

No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_loop_3dB	FCC_loop_3dB L1 (dB)
1	13.56	46.8	46.1	124.0	-77.9

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:A0081204E c1:C0201105 c2:NONE p:NONE a:NONE
Site ID: OATS#1,1247 Upper Colo Rd. Colo, NSW
Test Officer: Bruce Holdsworth

Source:
T40645r1 16

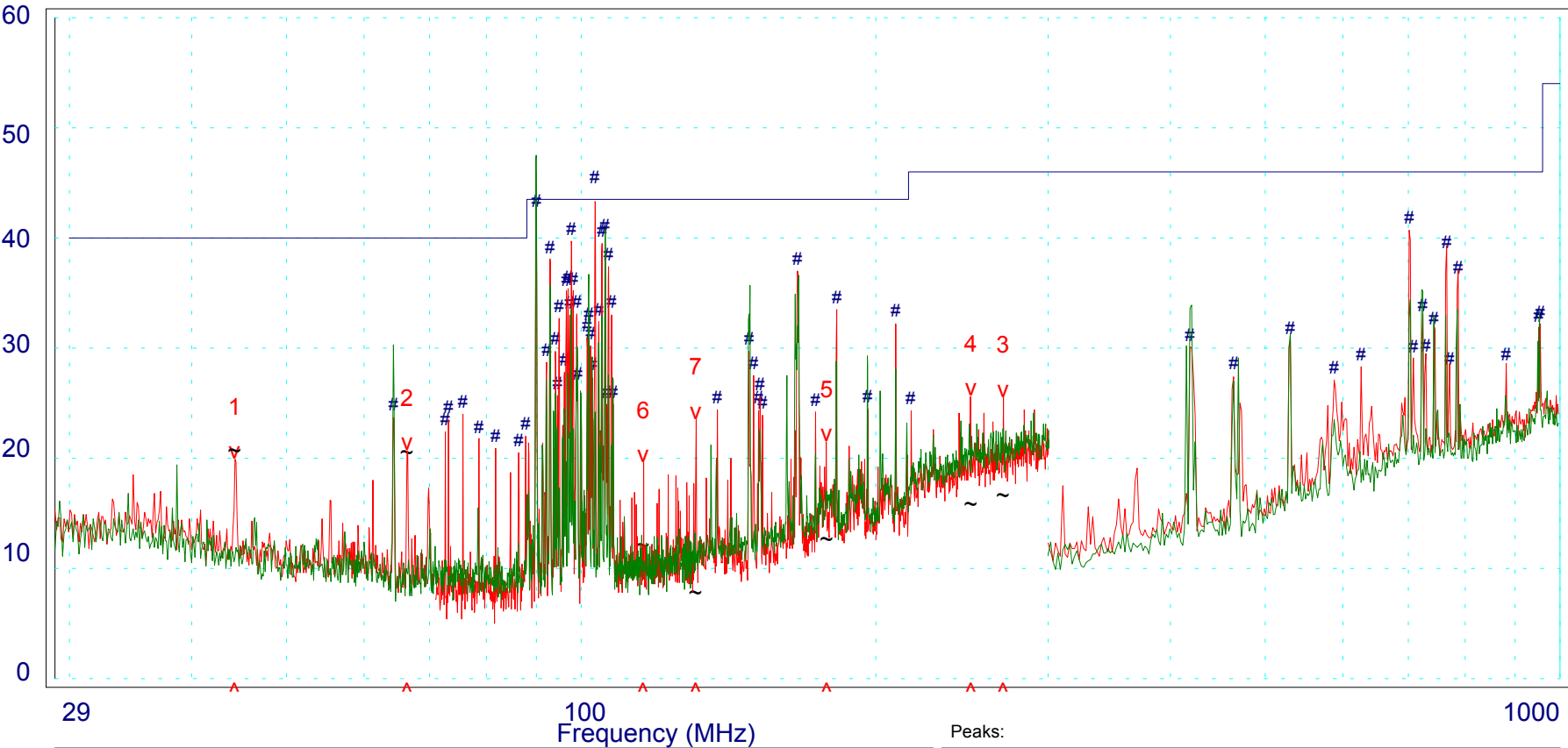
EMC Technologies (Sydney) 16/6 Gladstone Rd, Castle Hill, NSW, 2153, NSW, Australia
Phone +(612) 9899 4599 Fax+(612) 9899 4019

EMC Technologies Pty. Ltd. - Global Product Certification

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

Job No:T50314F p:\PCF\T50314f_7.PCF
Test Date: 12/1/05

GRAPH No. 7



BQT Solutions Limited
Smart Card Reader
Model: BT815

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

Legend:
— Vertical Ambients
— Vertical Emissions

Source:
V Amb1911 1 2 3 4 5 13
T40645r1 1 2 3 4 5 11

Ver 5.5 Build 107
Colo Radiated Test Setup
t:A0690305 c1:C0201105 c2:NONE p:A0961105 a:NONE
Site ID: OATS#1,1247 Upper Colo Rd. Colo, NSW
Test Officer: Bruce Holdsworth

EMC Technologies (Sydney) 16/6 Gladstone Rd, Castle Hill, NSW, 2153, NSW, Australia
Phone +(612) 9899 4599 Fax+(612) 9899 4019

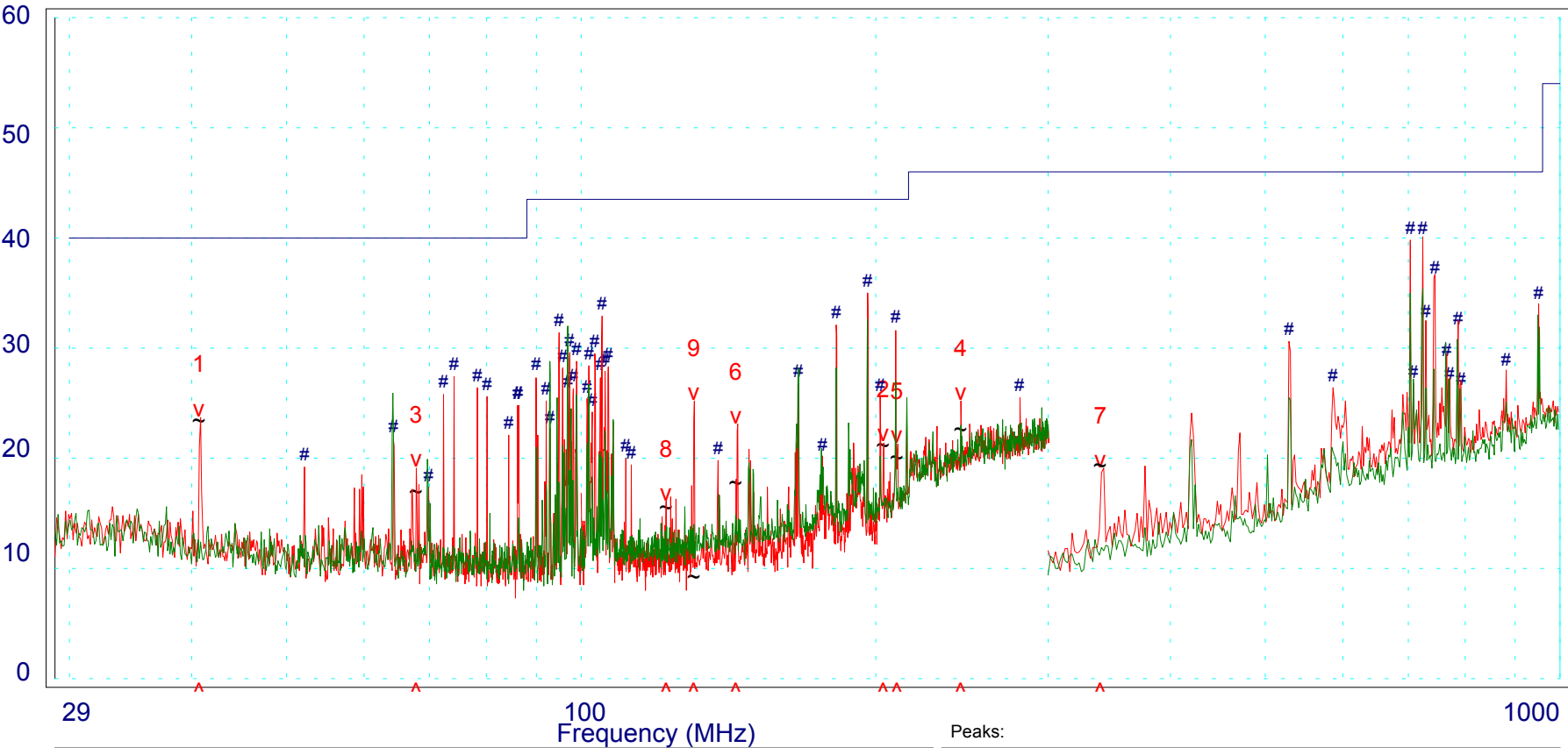
Peaks:					
No	Freq (MHz)	Peak (dBUV/m)	Qp Val	FCC-B3 (dBUV/m)	dL1 (dB)
1	44.24	19.9	19.9	40.0	-20.1
2	66.36	20.7	19.7	40.0	-20.3
3	269.74	25.5	15.8	46.0	-30.2
4	250.09	25.6	15.1	46.0	-31.0
5	178.12	21.5	11.9	43.5	-31.6
6	115.67	19.6	11.3	43.5	-32.2
7	130.88	23.5	7.0	43.5	-36.5

EMC Technologies Pty. Ltd. - Global Product Certification

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

Job No:T50314F p:\PCF\T50314f_8.PCF
Test Date: 12/1/05

GRAPH No. 8



BQT Solutions Limited
Smart Card Reader
Model: BT815

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

Legend:
— Horizontal Ambients
— Horizontal Emissions

Source:
V Amb1911 6 7 8 9 10 14
T40645r1 6 7 8 9 10 12

Ver 5.5 Build 107
Colo Radiated Test Setup
t:A0690305 c1:C0201105 c2:NONE p:A0961105 a:NONE
Site ID: OATS#1,1247 Upper Colo Rd. Colo, NSW
Test Officer: Bruce Holdsworth

EMC Technologies (Sydney) 16/6 Gladstone Rd, Castle Hill, NSW, 2153, NSW, Australia
Phone +(612) 9899 4599 Fax+(612) 9899 4019

Peaks:					
No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCC-B3 (dBuV/m)	dL1 (dB)
1	40.68	23.7	22.6	40.0	-17.4
2	203.41	21.5	20.4	43.5	-23.1
3	67.80	19.2	16.1	40.0	-23.9
4	244.07	25.2	21.8	46.0	-24.2
5	210.11	21.3	19.2	43.5	-24.3
6	143.81	23.0	16.9	43.5	-26.6
7	339.00	19.1	18.5	46.0	-27.5
8	122.06	16.0	14.7	43.5	-28.8
9	130.29	25.2	8.4	43.5	-35.1