

APPENDIX I

GRAPHS of EMI MEASUREMENTS

Conducted Emissions:

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

Radiated Emissions:

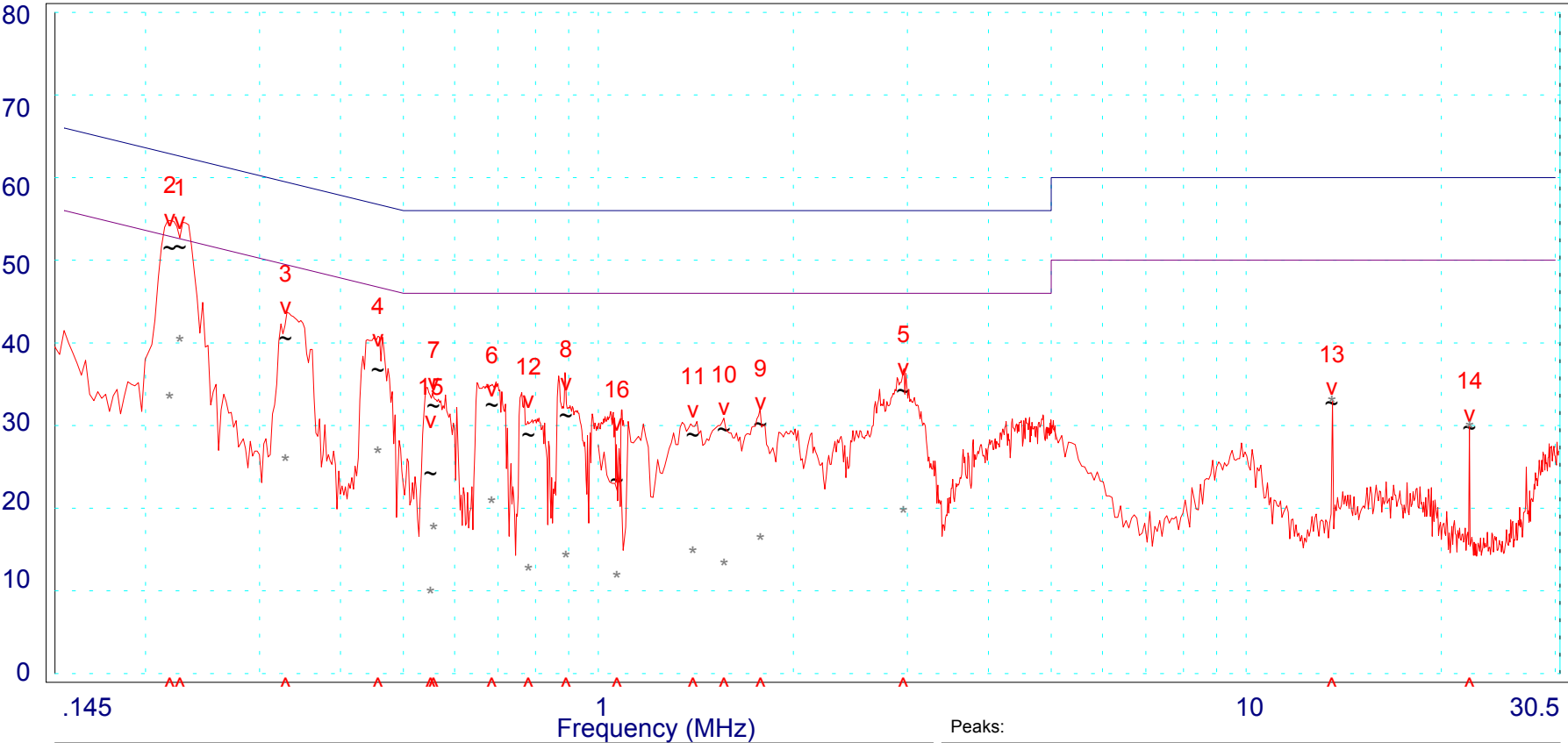
Graph 5:	Ambients	0.009 to 30 MHz
Graph 6:	Carrier	13.55 to 13.57 MHz
Graph 7:	Vertical Polarisation	29 to 1000 MHz
Graph 8:	Horizontal Polarisation	29 to 1000 MHz

EMC Technologies Pty. Ltd. - Global Product Certification

FCC Class B
Conducted Emissions (dBuV)

Job No:T40645F p:\PCF\T40645f_1.PCF
Test Date: 23/5/05

GRAPH No. 1



BQT Solutions Limited
Smart Card Reader
Model: BT817
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:Jodie Foyle

Source:
T40645cx 1 2 3

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

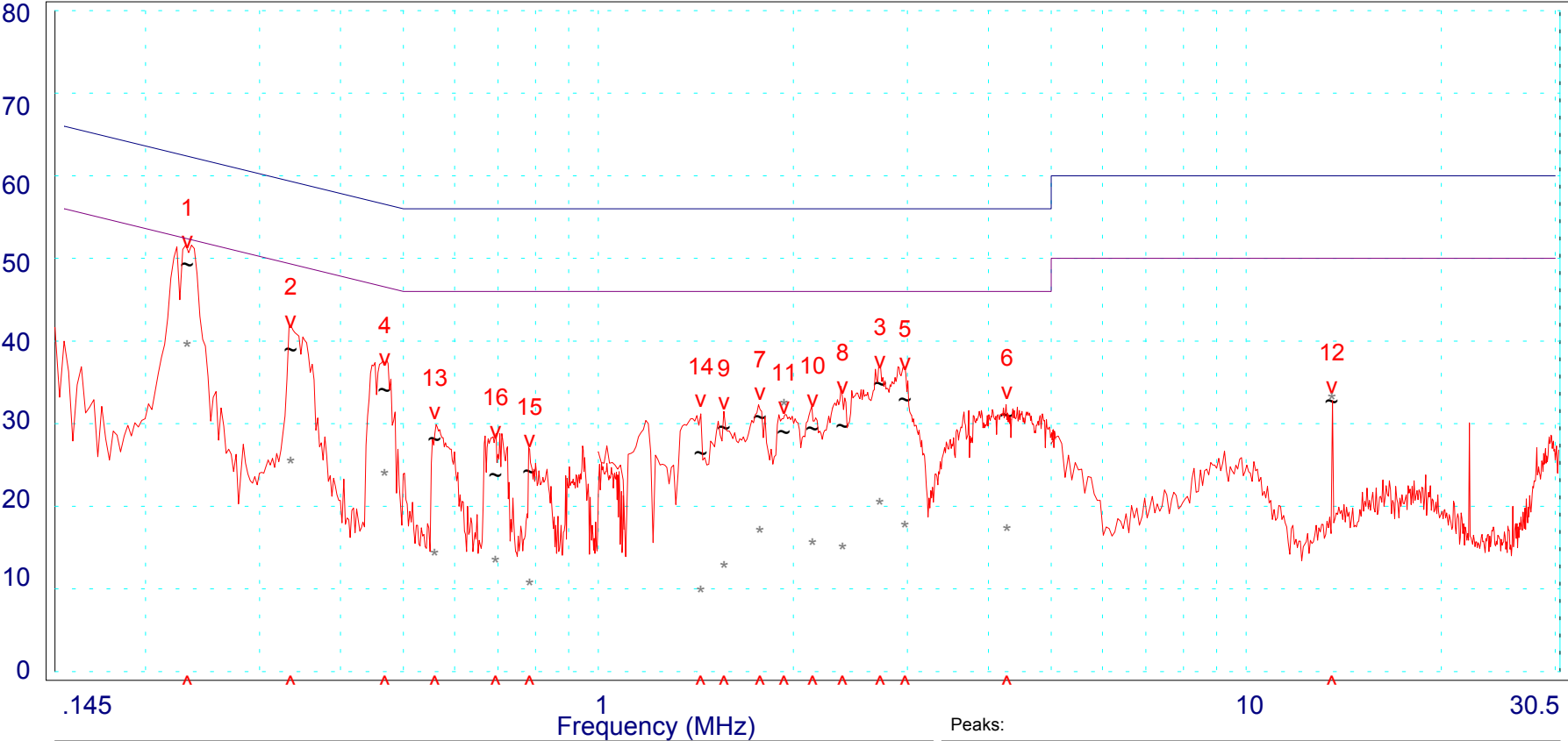
Peaks:								
No	Freq (MHz)	Peak (dBuV)	Qp Val (dBuV)	FCCN_BQPdL1 (dB)	Av Val (dBuV)	FCCN_BAVdL2 (dB)		
1	0.226	54.4	51.2	62.6	-11.4	39.5	52.6	-13.1
2	0.218	54.7	51.0	62.9	-11.9	32.6	52.9	-20.3
3	0.329	44.0	40.1	59.5	-19.3	25.0	49.5	-24.5
4	0.457	40.1	36.2	56.7	-20.5	26.0	46.7	-20.7
5	2.957	36.6	33.8	56.0	-22.2	18.8	46.0	-27.2
6	0.685	34.1	32.1	56.0	-23.9	20.0	46.0	-26.0
7	0.557	34.8	32.0	56.0	-24.0	16.8	46.0	-29.2
8	0.891	34.8	30.8	56.0	-25.2	13.4	46.0	-32.6
9	1.779	32.5	29.7	56.0	-26.3	15.5	46.0	-30.5
10	1.563	31.8	29.1	56.0	-26.9	12.4	46.0	-33.6
11	1.400	31.6	28.5	56.0	-27.5	13.9	46.0	-32.1
12	0.780	32.7	28.4	56.0	-27.6	11.8	46.0	-34.2
13	13.56	34.3	32.3	60.0	-27.7	32.2	50.0	-17.8
14	22.12	31.0	29.2	60.0	-30.8	29.1	50.0	-20.9
15	0.551	30.2	23.8	56.0	-32.2	9.0	46.0	-37.0
16	1.068	29.9	23.0	56.0	-33.0	10.9	46.0	-35.1

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FCC Class B
Conducted Emissions (dBuV)

Job No:T40645F p:\PCF\T40645f_2.PCF
Test Date: 23/5/05

GRAPH No. 2



BQT Solutions Limited
Smart Card Reader
Model: BT817
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

Source:
T40645cx 4 5 6

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

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

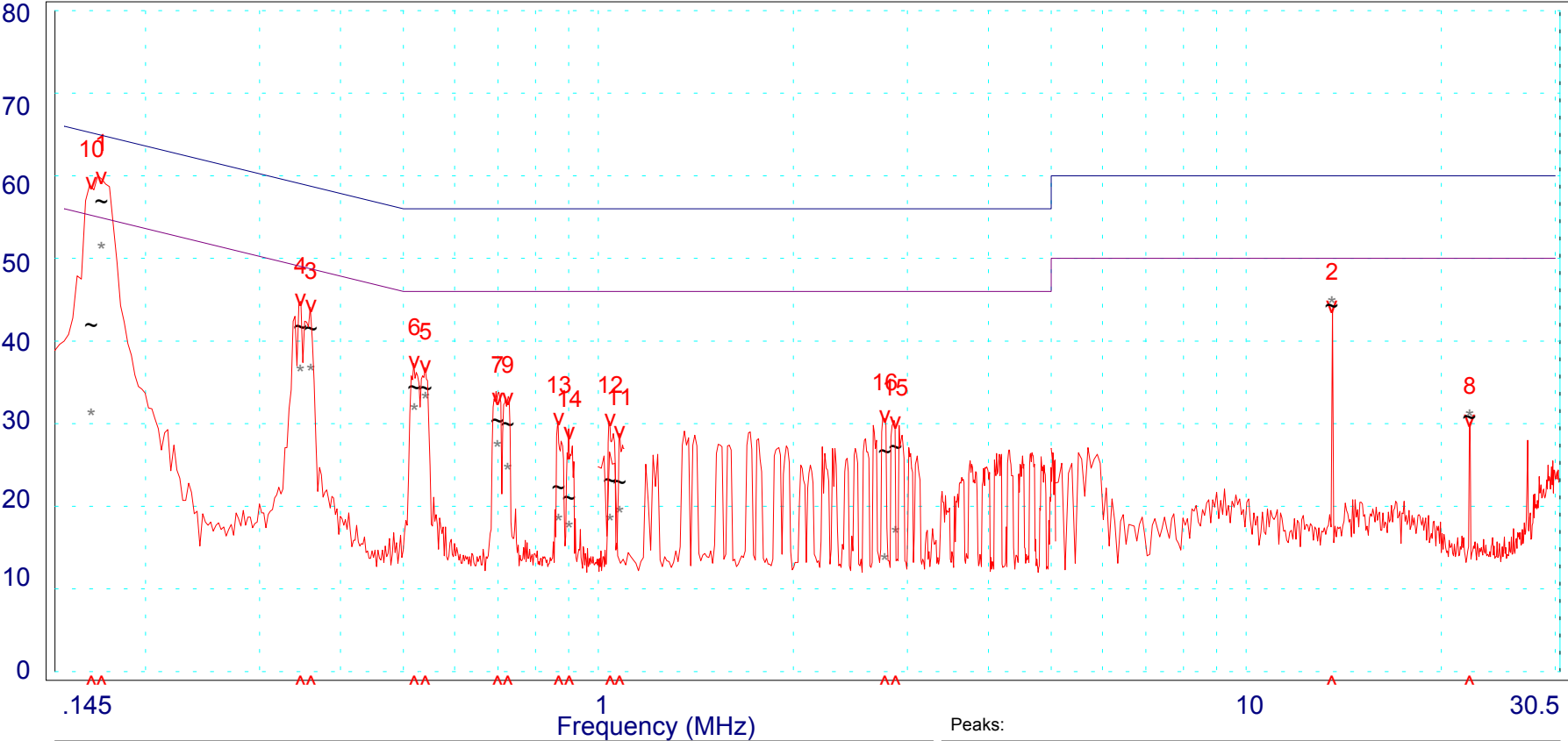
Peaks:								
No	Freq (MHz)	Peak (dBuV)	Qp Val (dBuV)	FCCN_BQP (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BAV (dBuV)	dL2 (dB)
1	0.232	51.8	48.8	62.4	-13.6	38.6	52.4	-13.8
2	0.335	42.1	38.5	59.3	-20.8	24.5	49.3	-24.8
3	2.721	37.3	34.4	56.0	-21.6	19.5	46.0	-26.5
4	0.468	37.5	33.7	56.5	-22.9	23.0	46.5	-23.5
5	2.973	37.0	32.5	56.0	-23.5	16.8	46.0	-29.2
6	4.271	33.6	30.6	56.0	-25.4	16.3	46.0	-29.7
7	1.776	33.4	30.3	56.0	-25.7	16.1	46.0	-29.9
8	2.382	34.2	29.3	56.0	-26.7	14.1	46.0	-31.9
9	1.563	32.3	29.1	56.0	-26.9	11.9	46.0	-34.1
10	2.142	32.6	29.0	56.0	-27.0	14.6	46.0	-31.4
11	1.935	31.7	28.6	56.0	-27.4	31.5	46.0	-14.5
12	13.56	34.2	32.3	60.0	-27.7	32.3	50.0	-17.7
13	0.559	31.1	27.7	56.0	-28.3	13.4	46.0	-32.6
14	1.439	32.6	26.0	56.0	-30.0	8.9	46.0	-37.1
15	0.783	27.7	23.7	56.0	-32.3	9.7	46.0	-36.3
16	0.694	28.7	23.3	56.0	-32.7	12.5	46.0	-33.5

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FCC Class B
Conducted Emissions (dBuV)

Job No:T40645F p:\PCF\T40645f_3.PCF
Test Date: 26/5/05

GRAPH No. 3



BQT Solutions Limited
Smart Card Reader
Model: BT817
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:L0110306 c1:C0020905 c2:NONE p:NONE a:L0030705
Site ID: Syd Room#2,
Test Officer:Jodie Foyle

Source:
T40645cx 7 8 9

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	0.171	59.6	56.4	64.9	-8.5	50.5	54.9	-4.4
2	13.56	43.9	43.8	60.0	-16.2	43.9	50.0	-6.1
3	0.360	44.1	41.1	58.7	-17.6	35.8	48.7	-12.9
4	0.347	44.8	41.3	59.0	-17.7	35.7	49.0	-13.3
5	0.541	36.8	33.8	56.0	-22.2	32.4	46.0	-13.6
6	0.520	37.3	33.9	56.0	-22.1	31.0	46.0	-15.0
7	0.699	32.8	29.9	56.0	-26.1	26.5	46.0	-19.5
8	22.12	30.2	30.4	60.0	-29.6	30.2	50.0	-19.8
9	0.725	32.8	29.5	56.0	-26.5	23.8	46.0	-22.2
10	0.165	58.9	41.5	65.2	-23.7	30.4	55.2	-24.8
11	1.079	28.8	22.4	56.0	-33.6	18.6	46.0	-27.4
12	1.043	30.3	22.8	56.0	-33.2	17.6	46.0	-28.4
13	0.869	30.3	21.9	56.0	-34.1	17.6	46.0	-28.4
14	0.902	28.6	20.6	56.0	-35.4	16.8	46.0	-29.2
15	2.876	30.0	26.8	56.0	-29.2	16.1	46.0	-29.9
16	2.769	30.7	26.2	56.0	-29.8	12.8	46.0	-33.2

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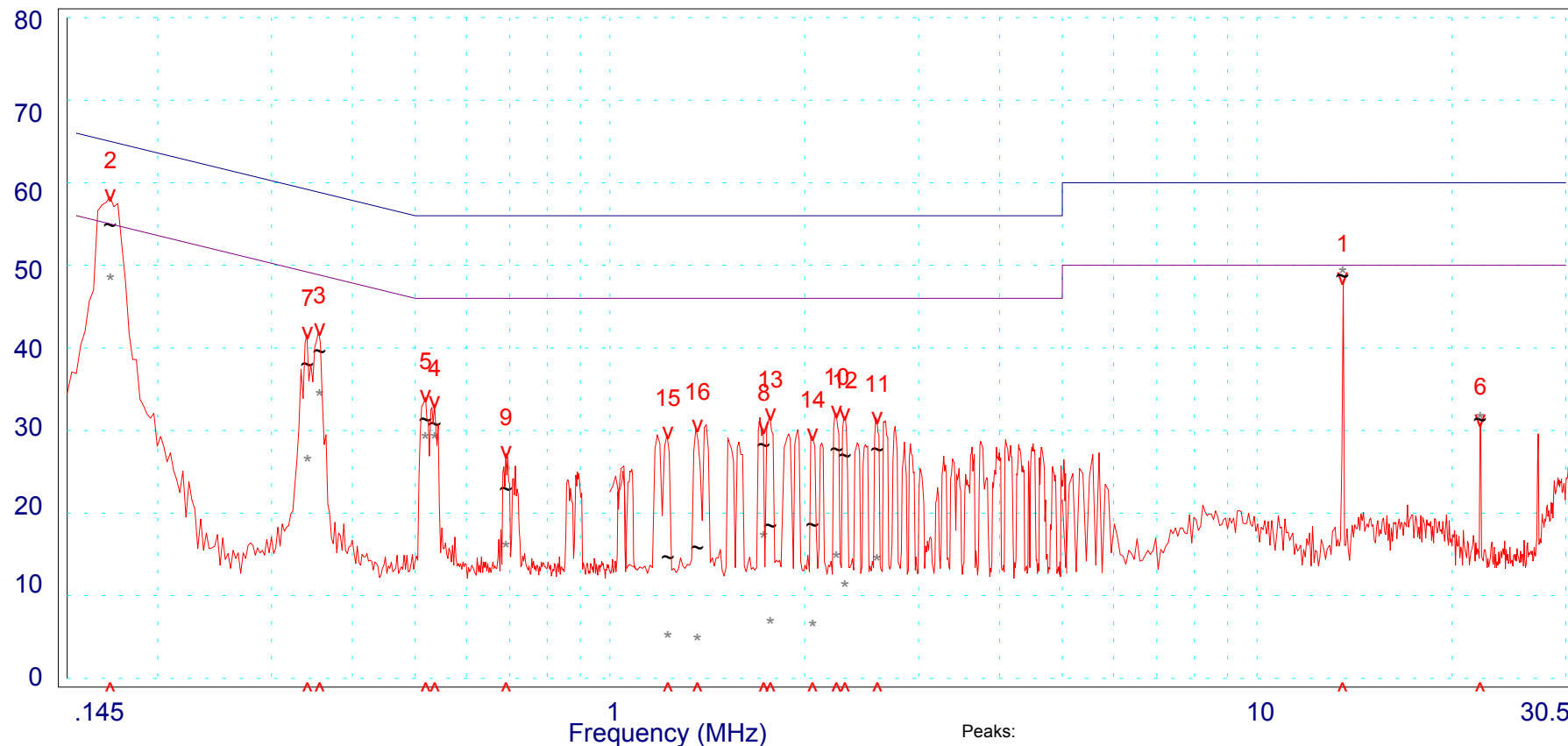
FCC Class B
Conducted Emissions (dBuV)

Job No:T40645F

p:\PCF\T40645f_4.PCF

Test Date: 26/5/05

GRAPH No. 4



BQT Solutions Limited
Smart Card Reader
Model: BT817
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:L0110306 c1:C0020905 c2:NONE p:NONE a:L0030705
Site ID: Syd Room#2,
Test Officer: Jodie Foyle

Source:
T40645cx 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:

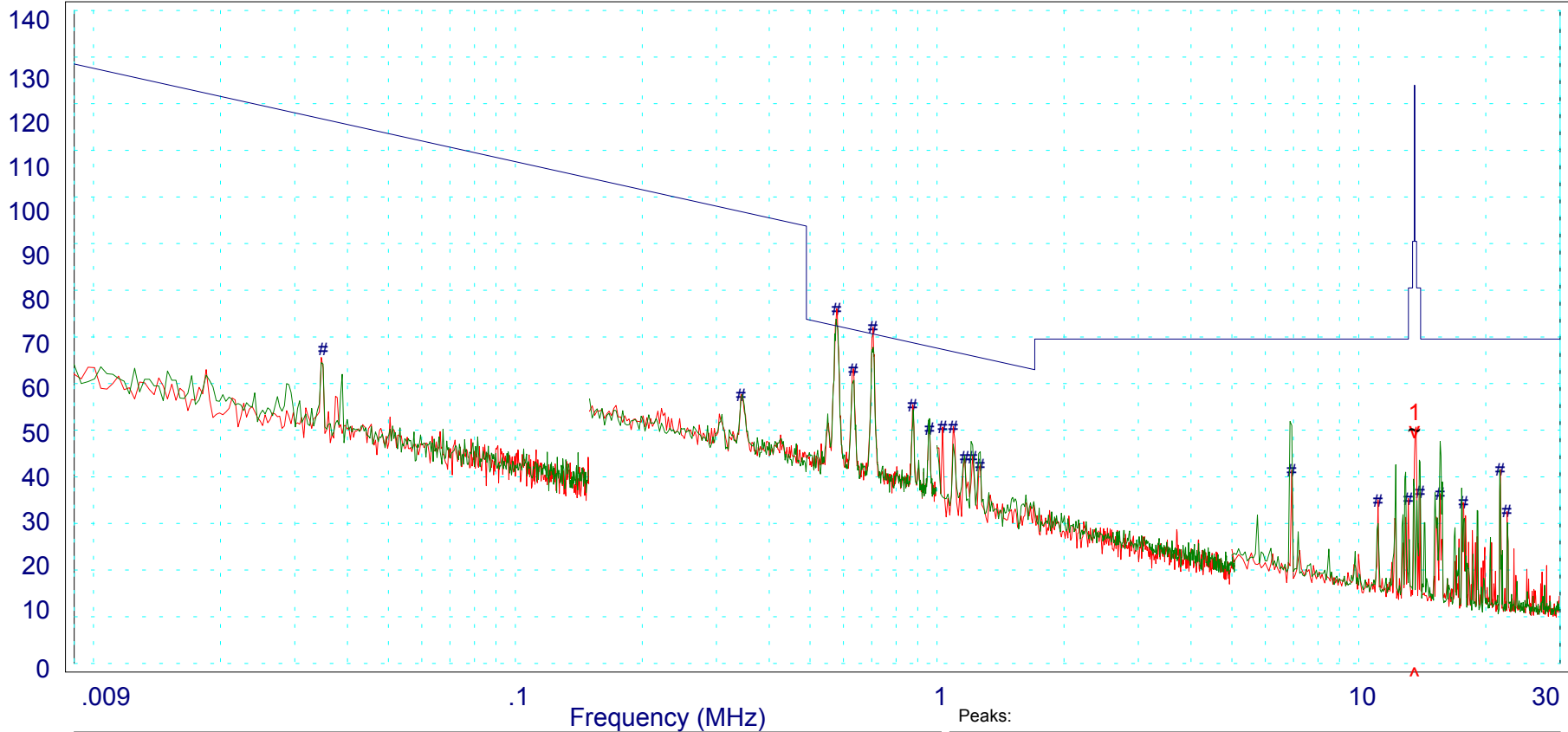
No	Freq (MHz)	Peak (dBuV)	Qp Val (dBuV)	FCCN_BQP (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BAV (dBuV)	dL2 (dB)
1	13.56	48.2	48.3	60.0	-11.7	48.4	50.0	-1.6
2	0.169	58.3	54.5	65.0	-10.5	47.6	55.0	-7.4
3	0.356	42.0	39.2	58.8	-19.6	33.5	48.8	-15.3
4	0.536	33.2	30.4	56.0	-25.7	28.3	46.0	-17.7
5	0.519	34.0	30.9	56.0	-25.1	28.3	46.0	-17.7
6	22.12	30.9	30.9	60.0	-29.1	30.8	50.0	-19.2
7	0.341	41.6	37.5	59.2	-21.7	25.6	49.2	-23.6
8	1.729	30.2	27.8	56.0	-28.2	16.3	46.0	-29.7
9	0.691	27.2	22.5	56.0	-33.5	15.2	46.0	-30.8
10	2.240	32.1	27.2	56.0	-28.8	13.9	46.0	-32.1
11	2.589	31.3	27.3	56.0	-28.7	13.6	46.0	-32.4
12	2.307	31.7	26.5	56.0	-29.5	10.4	46.0	-35.6
13	1.770	31.8	18.0	56.0	-38.0	5.9	46.0	-40.1
14	2.057	29.3	18.1	56.0	-37.9	5.6	46.0	-40.4
15	1.229	29.5	14.3	56.0	-41.8	4.3	46.0	-41.7
16	1.365	30.3	15.4	56.0	-40.6	3.9	46.0	-42.1

EMC Technologies Pty. Ltd. - Global Product Certification

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

Job No:T40645F p:\PCF\T40645f_5.PCF
Test Date: 16/3/05

GRAPH No. 5



BQT Solutions Limited
Smart Card Reader
Model: BT817

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

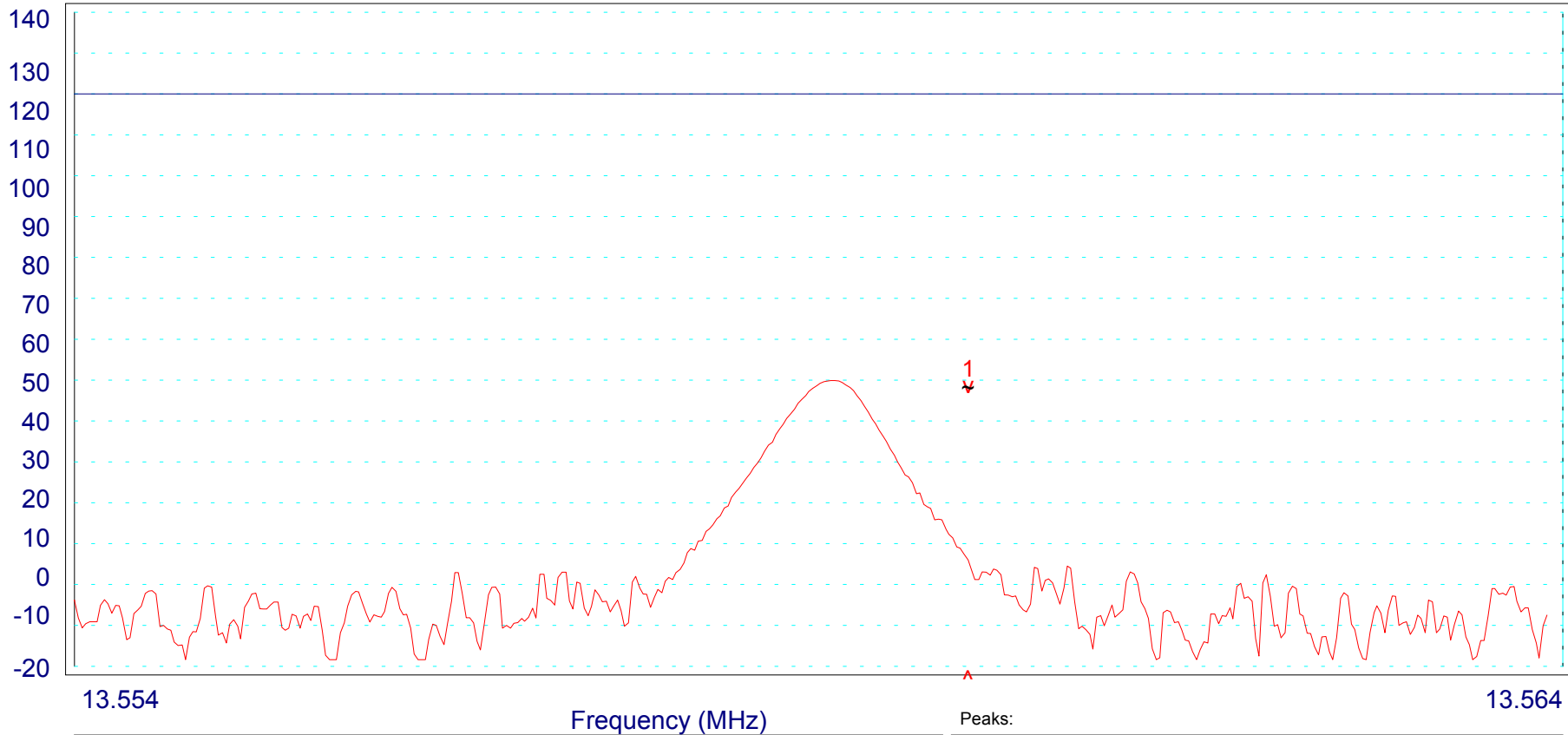
Peaks:					
No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_loop_3dL1 (dBuV)	3dL1 (dB)
1	13.56	50.7	50.7	124.0	-73.3

EMC Technologies Pty. Ltd. - Global Product Certification

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

Job No:T40645F p:\PCF\T40645f_6.PCF
Test Date: 16/3/05

GRAPH No. 6



BQT Solutions Limited
Smart Card Reader
Model: BT817

Peaks:

No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_loop (dBuV)	dL1 (dB)
1	13.56	49.9	49.3	120.0	-70.7

Limits: FCC_loop FCC Pt15 3 METRE LIMITS FOR LOOP ANTENNA 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: T40645R3 5

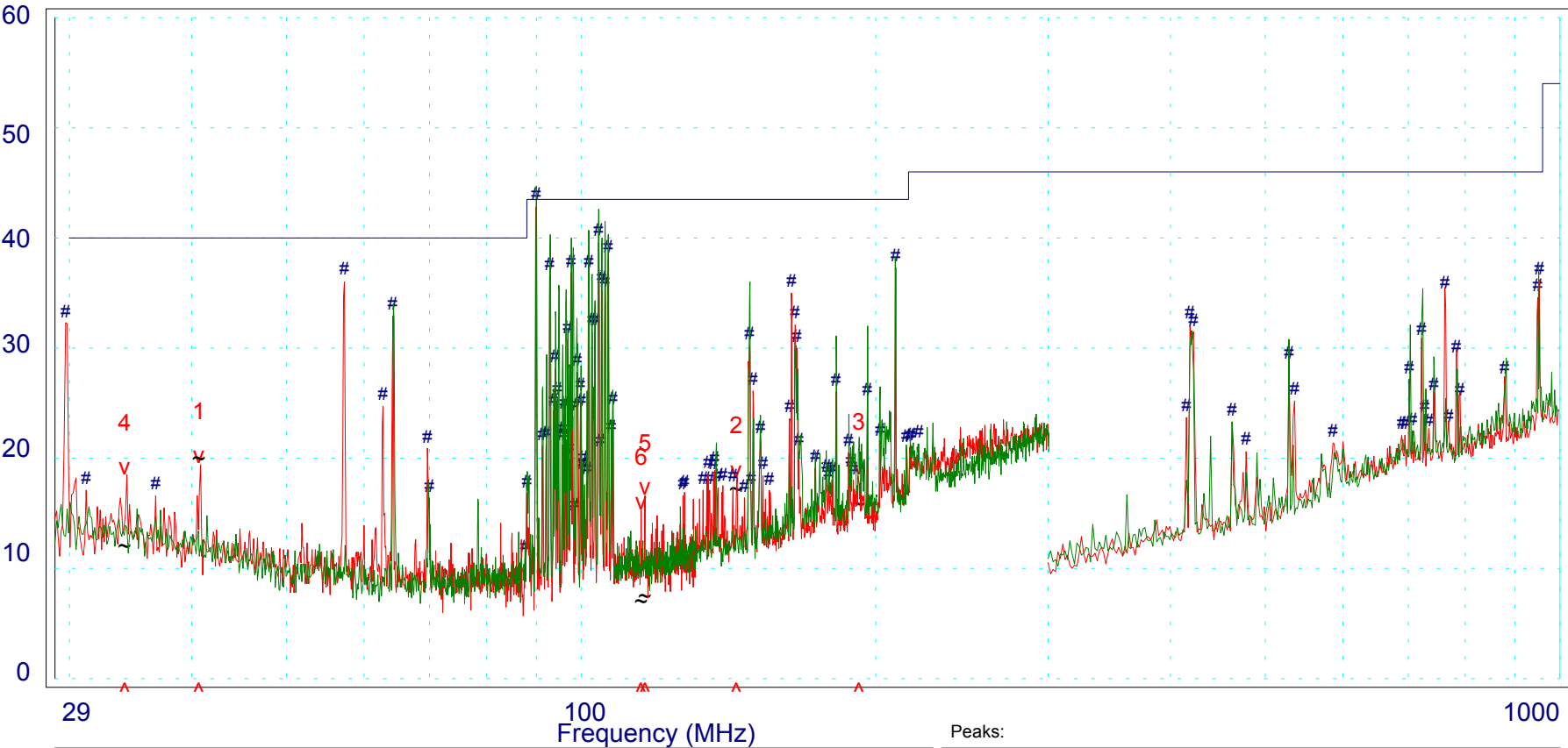
EMC Technologies (Sydney) 16/6 Gladstone Rd, Castle Hill, NSW, 2153, NSW, Australia
Phone +(612) 9899 4599 Fax+(612) 9899 4019

EMC Technologies Pty. Ltd. - Global Product Certification

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

Job No:T40645F p:\PCF\T40645f_7.PCF
Test Date: 16/3/05

GRAPH No. 7



BQT Solutions Limited
Smart Card Reader
Model: BT817

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

Legend:
— Vertical Ambients
— Vertical Emissions

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:

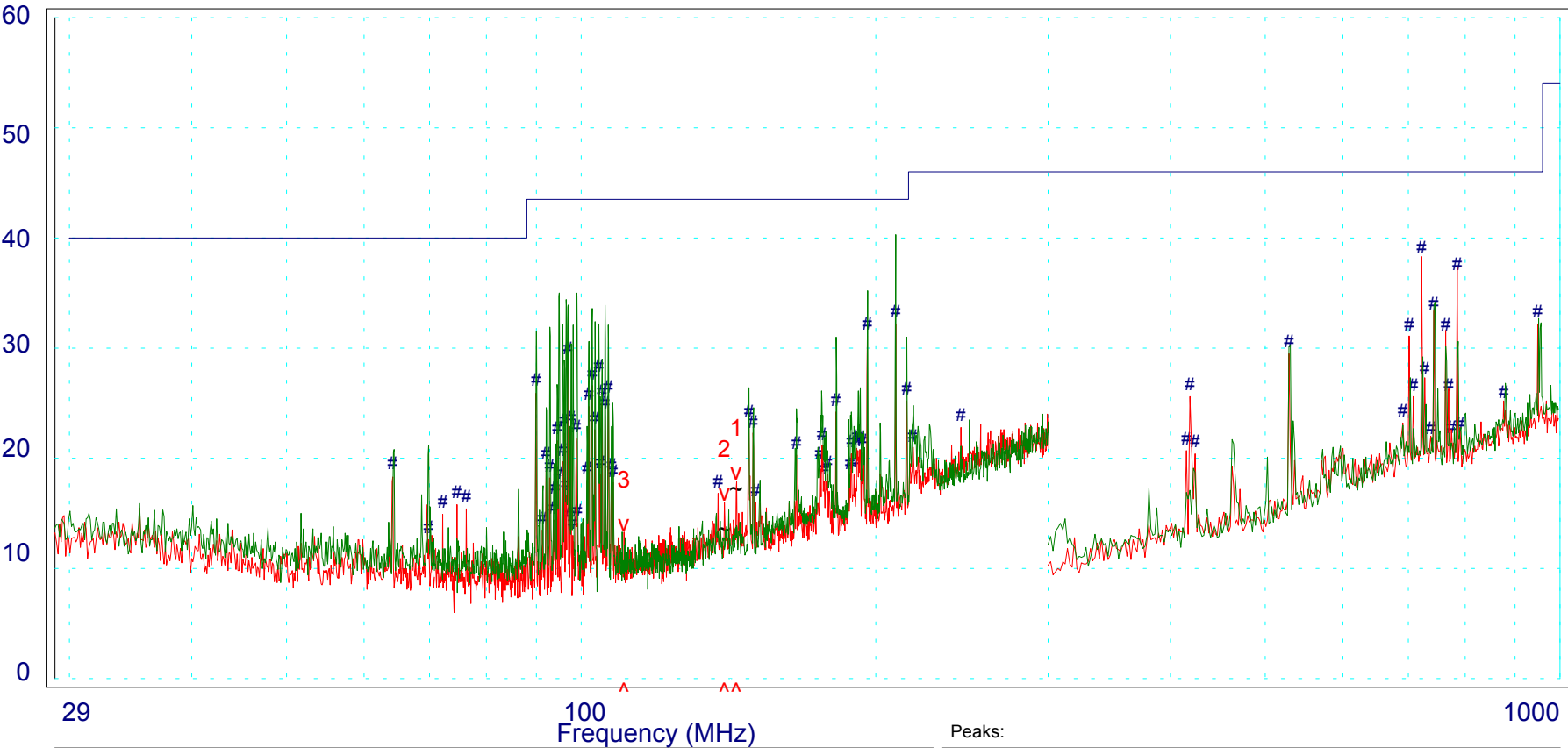
No	Freq (MHz)	Peak (dBUV/m)	Qp Val	FCC-B3 (dBUV/m)	dL1 (dB)
1	40.67	19.4	19.2	40.0	-20.8
2	144.00	18.2	16.4	43.5	-27.1
3	192.17	18.5	15.1	43.5	-28.5
4	34.16	18.4	11.2	40.0	-28.8
5	116.16	16.6	6.7	43.5	-36.8
6	115.13	15.3	6.2	43.5	-37.4

EMC Technologies Pty. Ltd. - Global Product Certification

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

Job No:T40645F p:\PCF\T40645f_8.PCF
Test Date: 16/3/05

GRAPH No. 8



BQT Solutions Limited
Smart Card Reader
Model: BT817

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

Legend:
Horizontal Ambients
Horizontal Emissions

Source:
V Amb0403 6 7 8 9 10 12
T40645r2 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	144.00	18.0	16.4	43.5	-27.1
2	140.00	16.0	12.7	43.5	-30.8
3	110.56	13.3	9.7	43.5	-33.8