

APPENDIX H

Graphs of EMI Measurement

CONDUCTED EMI (0.15 MHz to 30 MHz)

Graph 1:	Active Line,	Tuned to 30 MHz
Graph 2:	Neutral Line,	Tuned to 30 MHz
Graph 3:	Active Line,	Tuned to 475 MHz
Graph 4:	Neutral Line,	Tuned to 475MHz
Graph 5:	Active Line,	Tuned to 960 MHz
Graph 6:	Neutral Line,	Tuned to 960 MHz

RADIATED EMI (30 MHz to 1000 MHz)

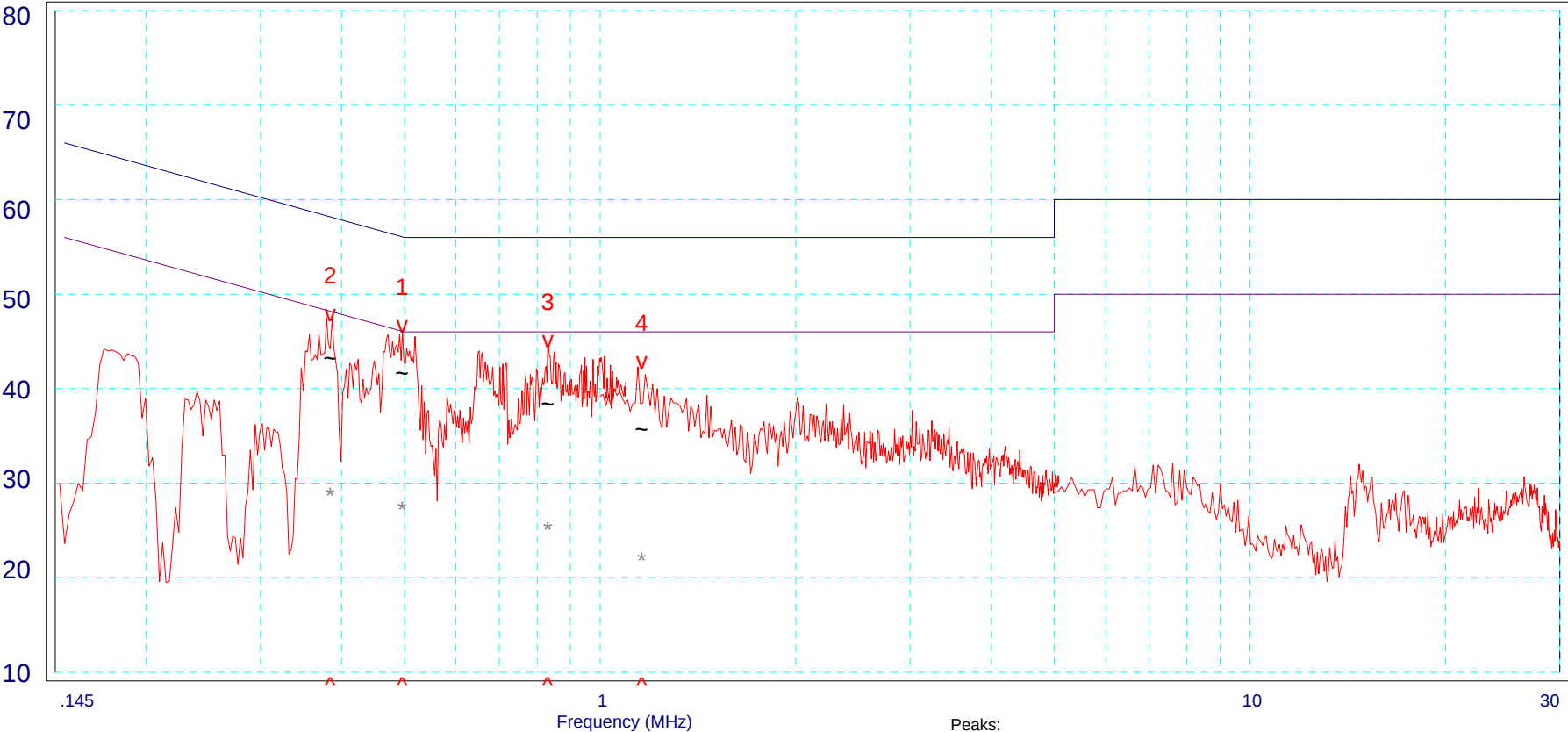
Graph 7:	Vertical Polarisation,	Tuned to 30 MHz
Graph 8:	Horizontal Polarisation	Tuned to 30 MHz
Graph 9:	Vertical Polarisation,	Tuned to 475 MHz
Graph 10:	Horizontal Polarisation	Tuned to 475 MHz
Graph 11:	Vertical Polarisation,	Tuned to 960 MHz
Graph 12:	Horizontal Polarisation	Tuned to 960 MHz

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FCC Class B
Conducted Emissions (dBuV)

Job No:M110931 p:\PCFM110931_1.PCF
Test Date: 06/10/2011

GRAPH No. 1



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 30 MHz
Conducted Emissions - Active line

Peaks:

No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	0.496	46.2	41.1	56.1	-15.0	26.6	46.1	-19.5
2	0.384	47.4	42.6	58.2	-15.6	28.0	48.2	-20.2
3	0.831	44.6	37.8	56.0	-18.2	24.4	46.0	-21.6
4	1.159	42.3	35.1	56.0	-20.9	21.2	46.0	-24.8

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 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

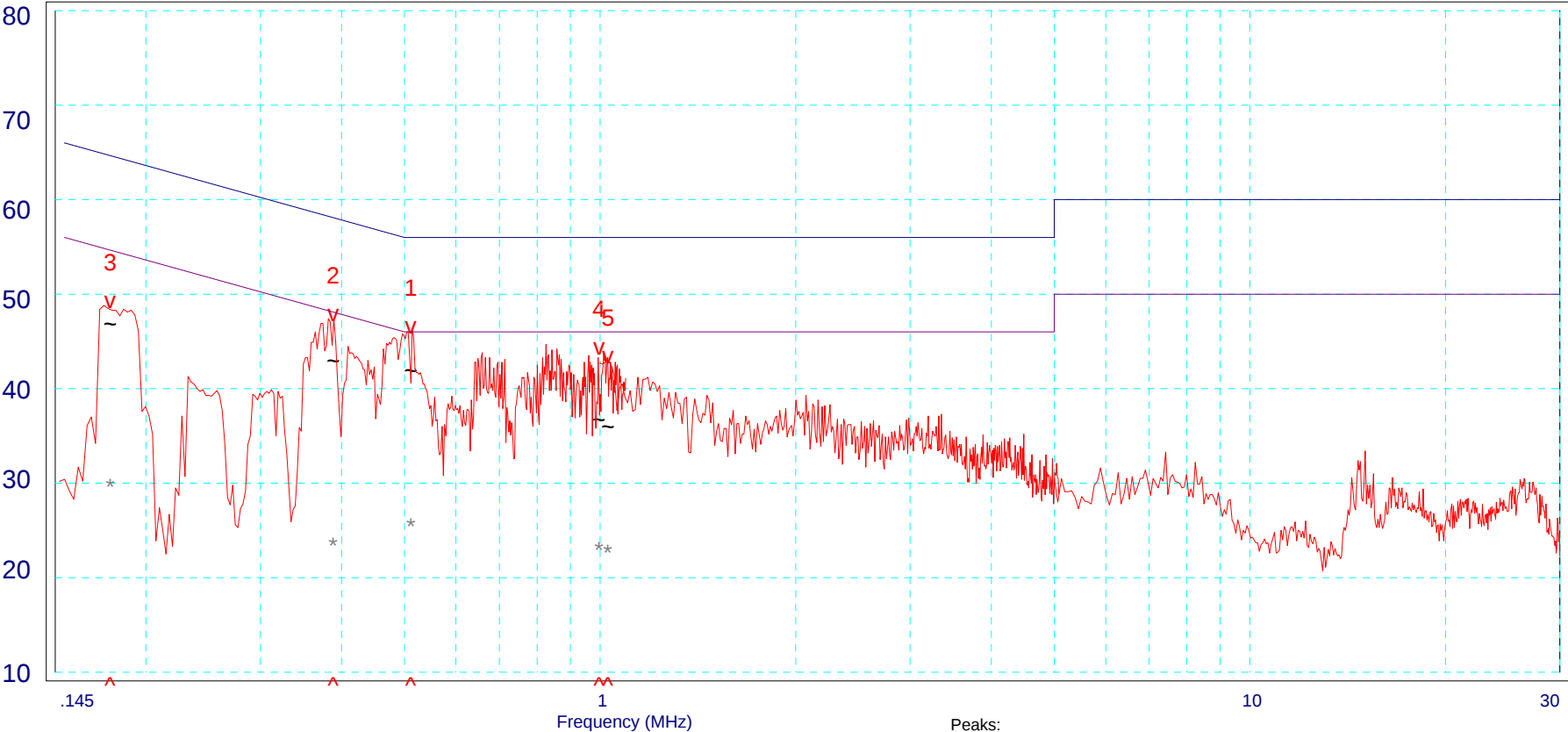
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FCC Class B
Conducted Emissions (dBuV)

Job No:M110931 p:\PCFM110931_2.PCF
Test Date: 06/10/2011

GRAPH No. 2



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 30 MHz
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)

Ver 5.5 Build 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

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Phone+(613) 9365 1000 Fax+(613) 9331 7455

Peaks:

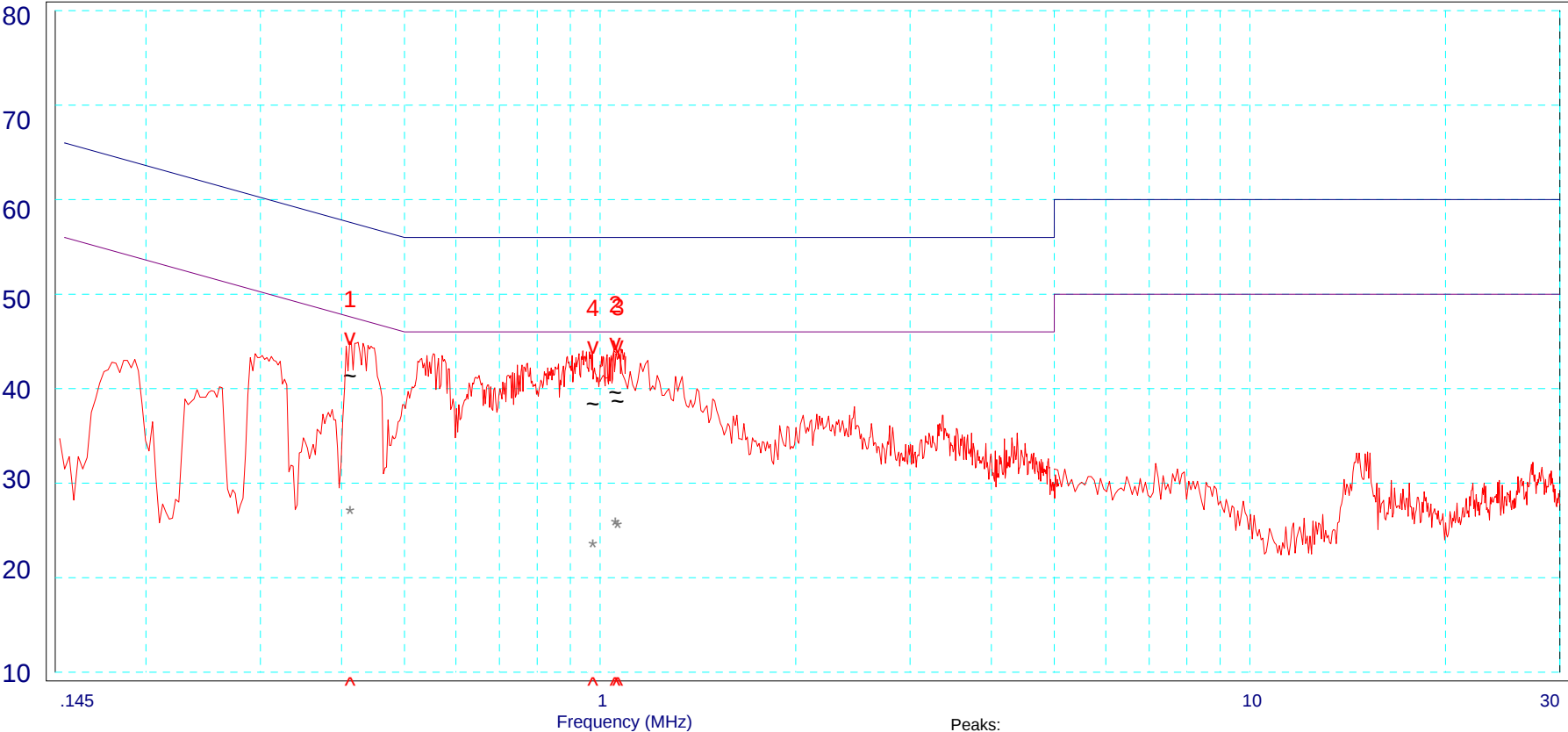
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	0.511	46.1	41.4	56.0	-14.6	24.8	46.0	-21.2
2	0.388	47.4	42.3	58.1	-15.8	22.7	48.1	-25.4
3	0.176	48.7	46.2	64.7	-18.5	29.0	54.7	-25.7
4	0.996	43.9	36.1	56.0	-19.9	22.3	46.0	-23.7
5	1.028	42.9	35.4	56.0	-20.6	22.0	46.0	-24.0

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FCC Class B
Conducted Emissions (dBuV)

Job No:M110931 p:\PCFM110931_3.PCF
Test Date: 06/10/2011

GRAPH No. 3



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 475 MHz
Conducted Emissions - Active line

Peaks:

No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	0.412	44.8	40.8	57.6	-16.8	26.1	47.6	-21.5
2	1.055	44.2	39.0	56.0	-17.0	24.9	46.0	-21.1
3	1.065	44.0	38.1	56.0	-17.9	24.6	46.0	-21.4
4	0.975	43.9	37.8	56.0	-18.2	22.6	46.0	-23.4

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 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110931 7 , 8 , 9

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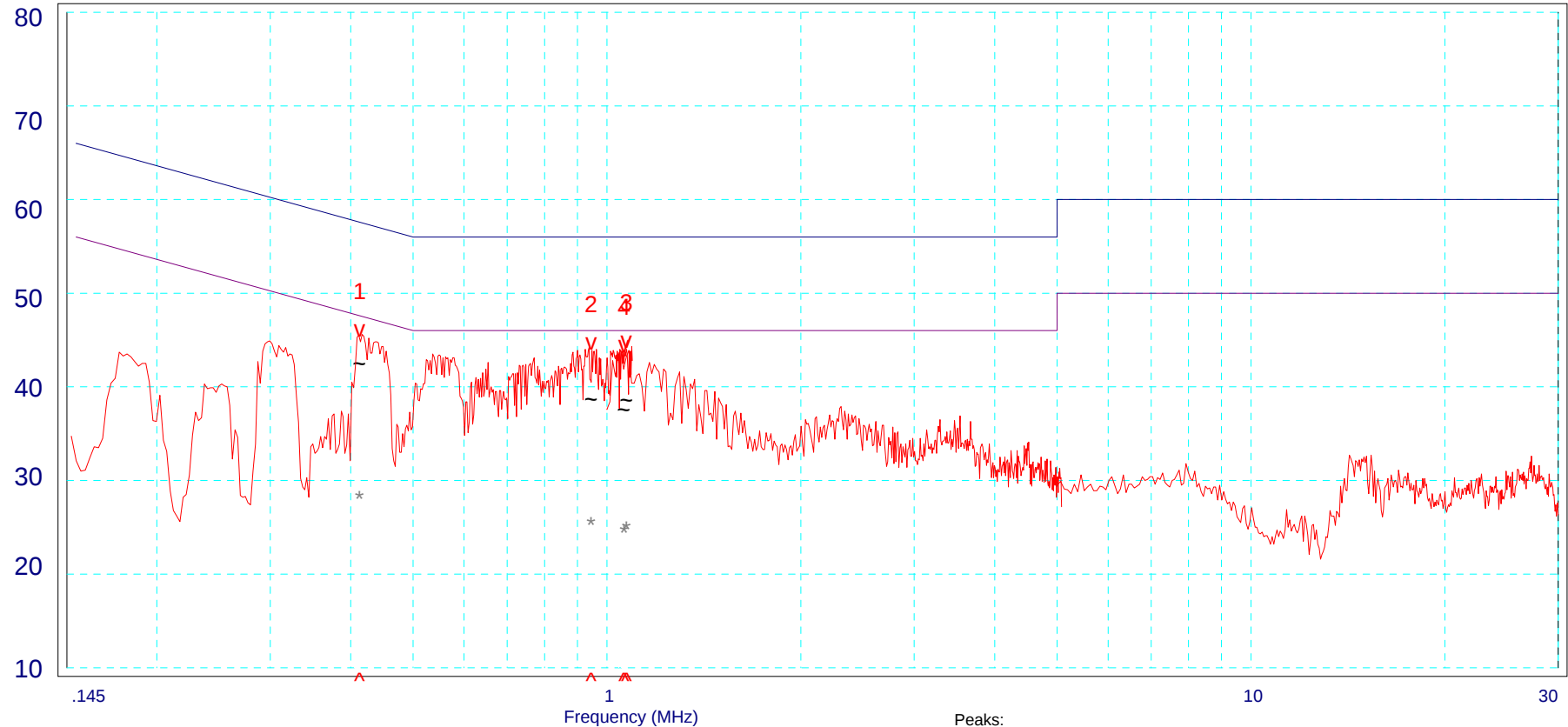
FCC Class B
Conducted Emissions (dBuV)

Job No:M110931

p:\PCFM110931_4.PCF

Test Date: 06/10/2011

GRAPH No. 4



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 475 MHz
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 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110931d0 ,11 ,12

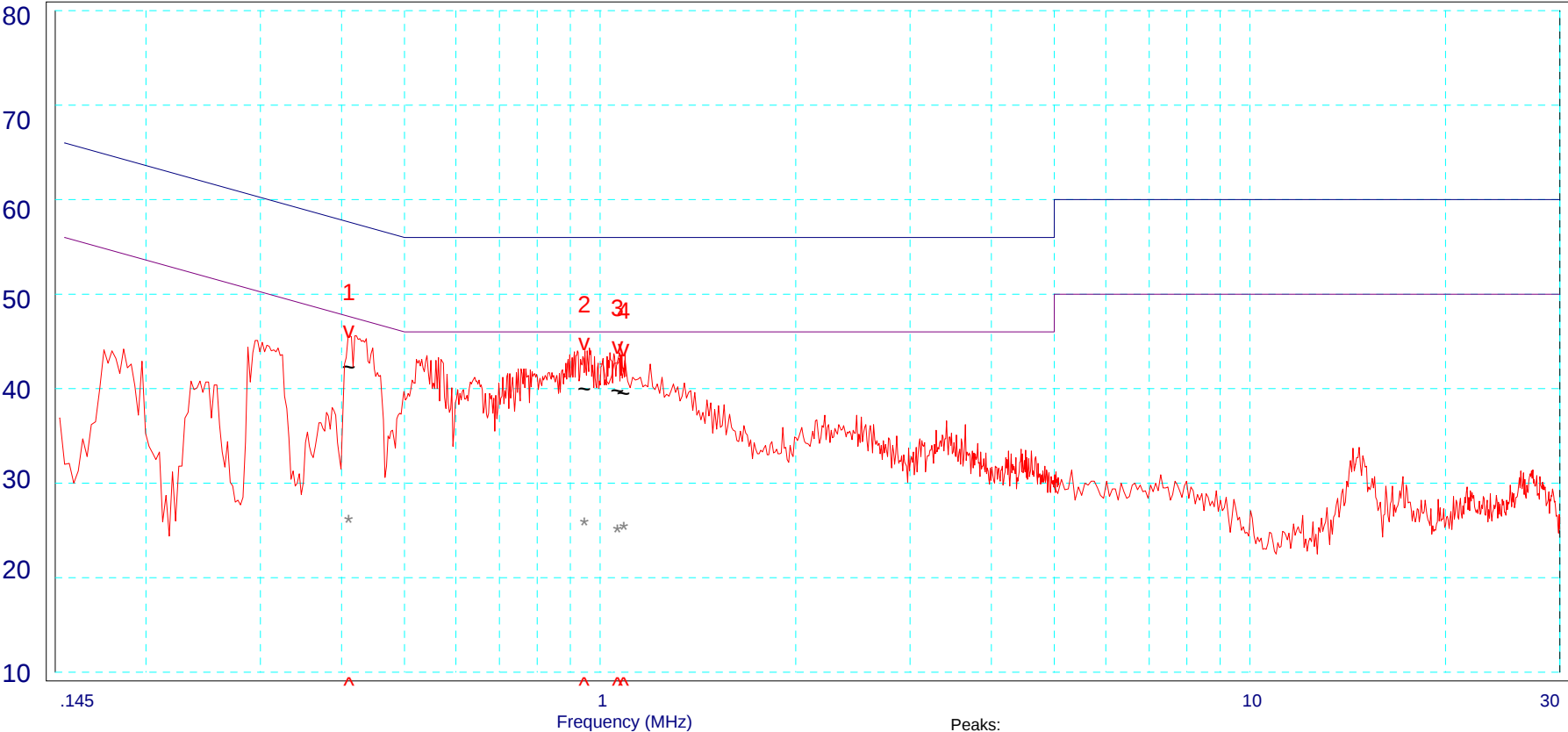
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FCC Class B
Conducted Emissions (dBuV)

Job No:M110931 p:\PCFM110931_5.PCF
Test Date: 06/10/2011

GRAPH No. 5



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 960 MHz
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 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110931Q3 ,14 ,15

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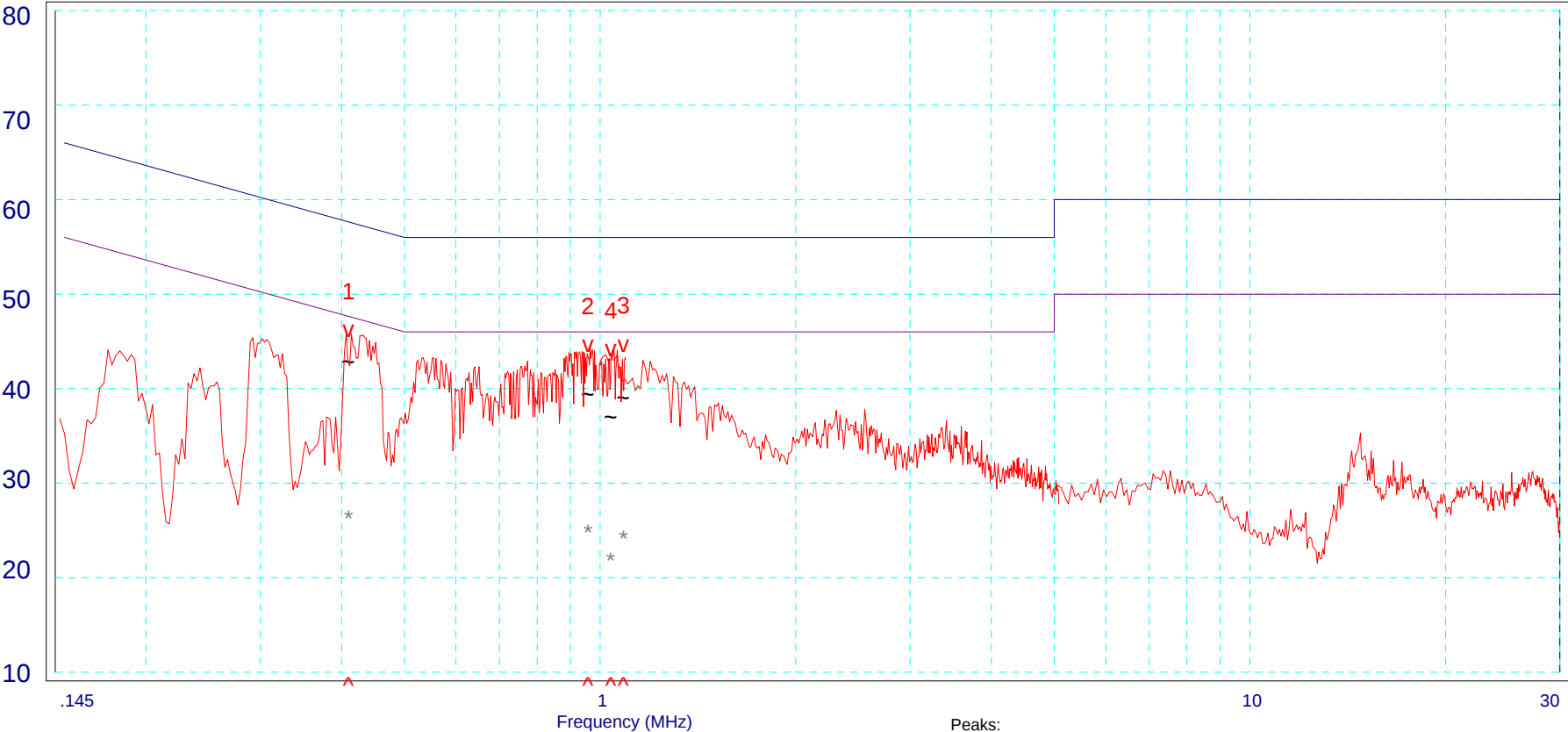
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	0.410	45.6	41.7	57.6	-15.9	25.2	47.6	-22.4
2	0.946	44.3	39.4	56.0	-16.6	24.9	46.0	-21.1
3	1.064	43.9	39.2	56.0	-16.8	24.1	46.0	-21.9
4	1.087	43.6	38.9	56.0	-17.1	24.4	46.0	-21.6

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FCC Class B
Conducted Emissions (dBuV)

Job No:M110931 p:\PCFM110931_6.PCF
Test Date: 06/10/2011

GRAPH No. 6



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 960 MHz
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 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110931d6 ,17 ,18

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Phone+(613) 9365 1000 Fax+(613) 9331 7455

Peaks:								
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	0.410	45.7	42.3	57.6	-15.3	25.6	47.6	-22.0
2	0.958	44.1	38.8	56.0	-17.2	24.1	46.0	-21.9
3	1.086	44.2	38.5	56.0	-17.5	23.5	46.0	-22.5
4	1.039	43.6	36.4	56.0	-19.6	21.2	46.0	-24.8

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

Job No:M110931 p:\PCFM110931_7.PCF
Test Date: 04/10/2011

GRAPH No. 7



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 30 MHz
Radiated Emissions - Vertical

Limits: FCC15209 FCC PART 15.209 3mtr LMTS

Legend: Vertical Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source: M110931R , 2 , 5 , 7 , 8

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Peaks:

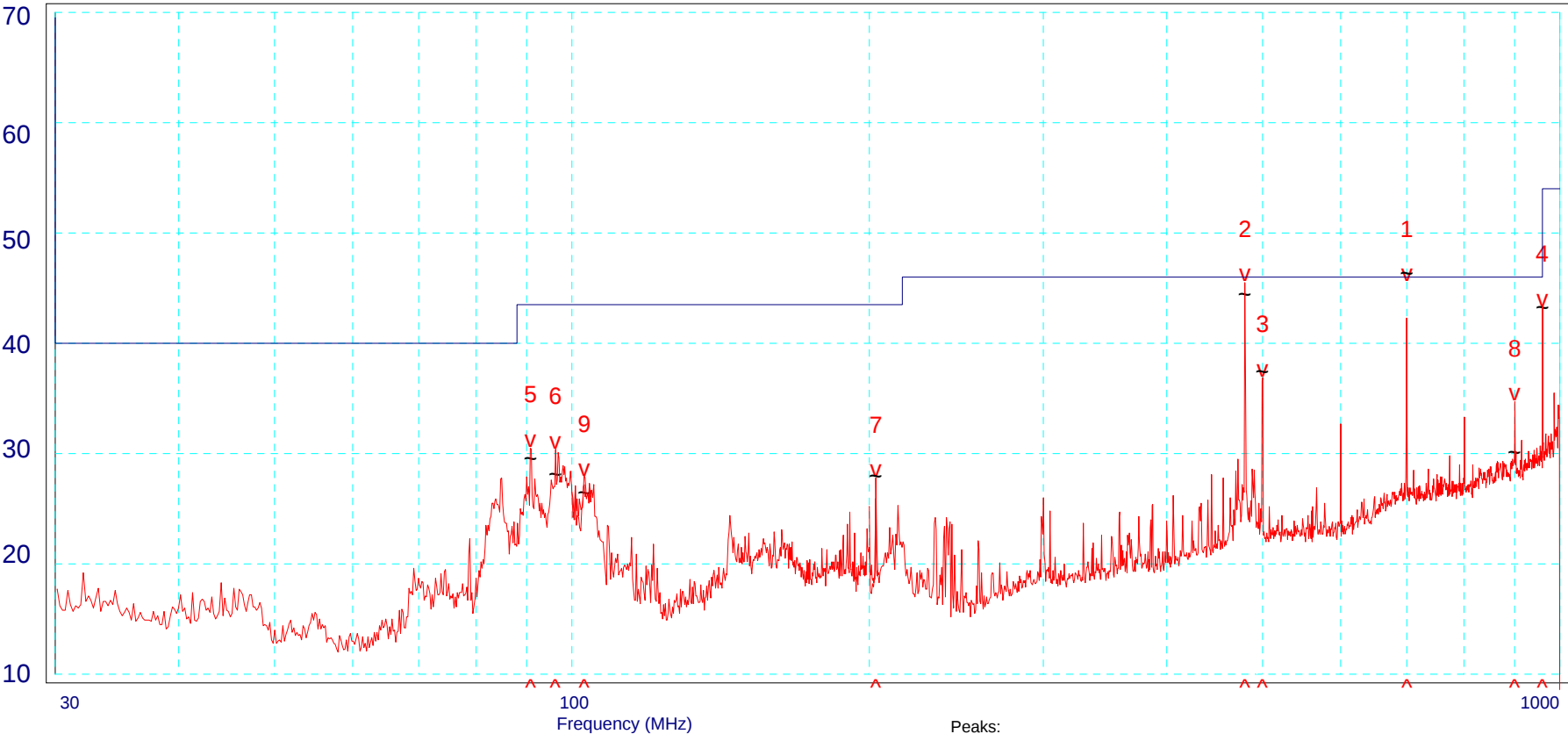
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)	dL1 (dB)
1	700.00	44.3	44.3	46.0	-1.7
2	800.00	41.7	41.6	46.0	-4.4
3	480.04	35.7	32.9	46.0	-13.1
4	34.25	29.6	25.0	40.0	-15.0
5	46.59	29.8	24.9	40.0	-15.1
6	83.84	28.7	23.9	40.0	-16.1
7	960.15	37.1	36.1	54.0	-17.9

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

Job No:M110931 p:\PCFM110931_8.PCF
Test Date: 04/10/2011

GRAPH No. 8



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 30 MHz
Radiated Emissions - Horizontal

Limits:
FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
— Horizontal Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110931R , 4 , 9 , 10 ,11

EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
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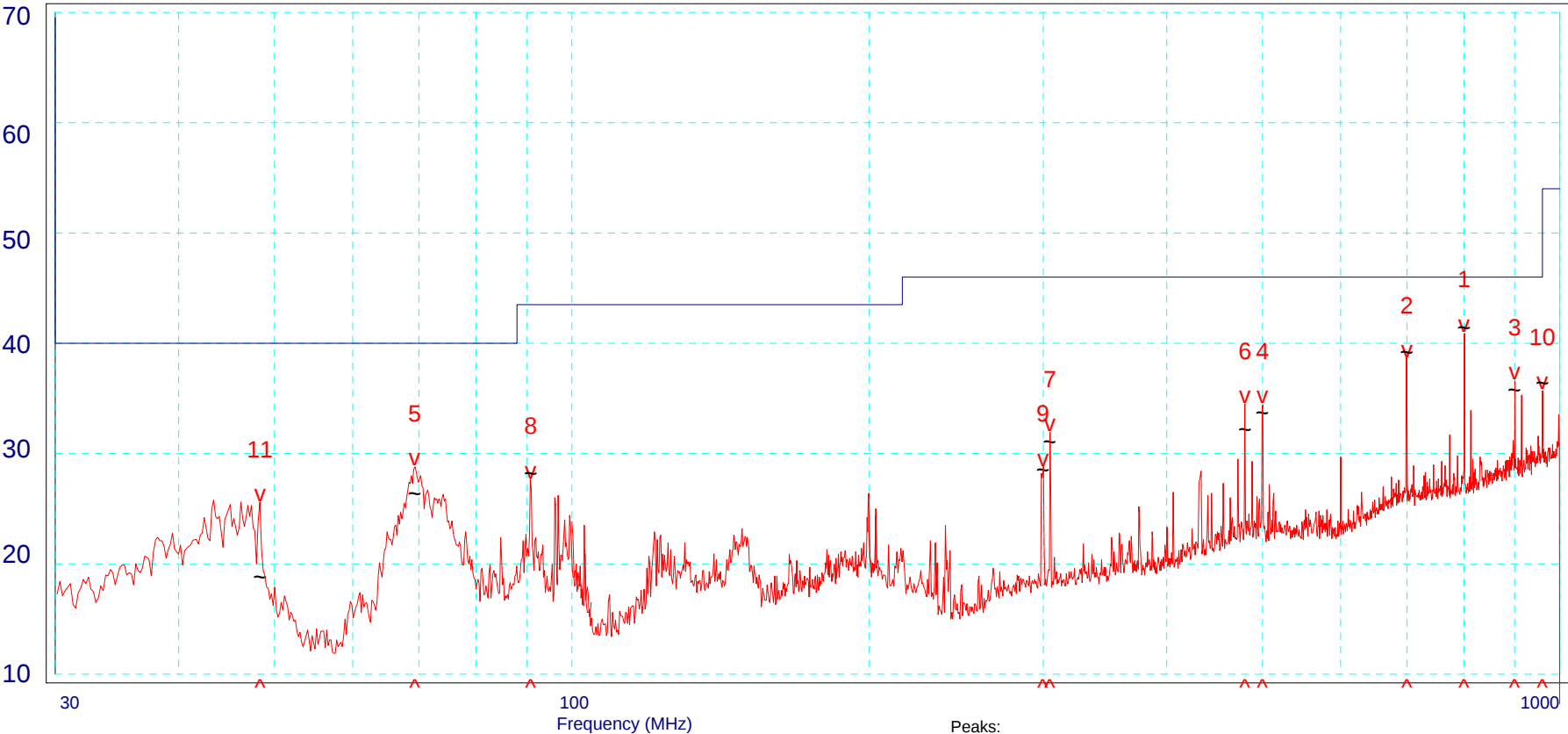
Peaks:				
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)
1	700.00	45.6	45.6	46.0
2	480.04	45.5	43.6	46.0
3	500.00	36.9	36.6	46.0
4	960.13	43.3	42.4	54.0
5	90.84	30.5	28.8	43.5
6	96.22	30.4	27.4	43.5
7	203.09	27.8	27.2	43.5
8	899.97	34.7	29.4	46.0
9	102.95	27.9	25.7	43.5

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

Job No:M110931 p:\PCFM110931_9.PCF
Test Date: 04/10/2011

GRAPH No. 9



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 475 MHz
Radiated Emissions - Vertical

Limits:
FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
— Vertical Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110931R8 ,19 ,15 ,16 ,17

EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
Phone+(613) 9365 1000 Fax+(613) 9331 7455

Peaks:				
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)
1	799.99	41.0	40.6	46.0
2	700.00	38.6	38.4	46.0
3	899.98	36.6	35.0	46.0
4	499.98	34.5	32.9	46.0
5	69.34	28.8	25.6	40.0
6	480.05	34.5	31.4	46.0
7	304.63	31.9	30.3	46.0
8	90.85	27.7	27.4	43.5
9	299.81	28.8	27.8	46.0
10	960.13	35.7	35.6	54.0
11	48.35	25.6	18.0	40.0

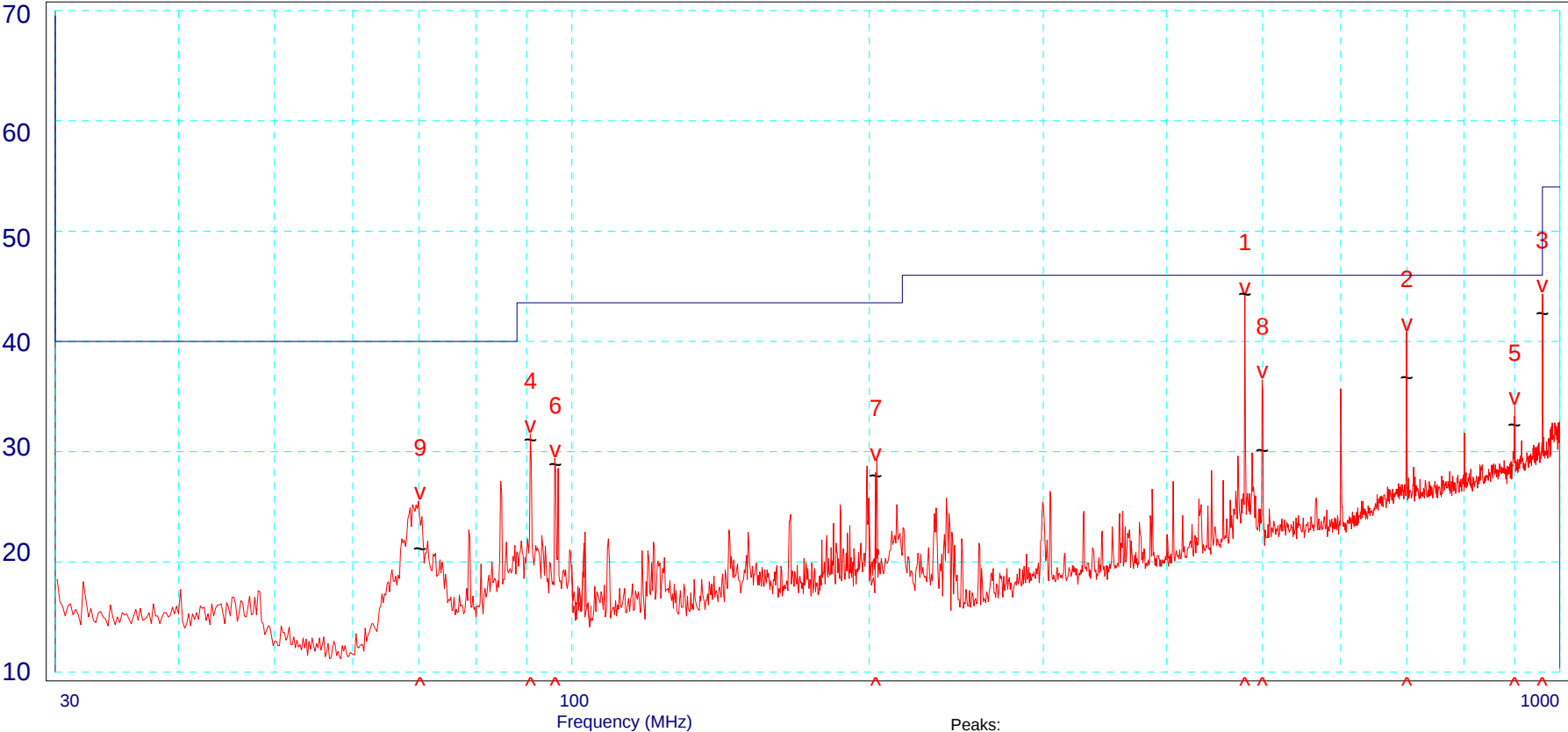
dL1 (dB)
-5.4
-7.6
-11.0
-13.1
-14.4
-14.6
-15.7
-16.1
-18.2
-18.4
-22.0

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

Job No:M110931 p:\PCFM110931_10.PCF
Test Date: 04/10/2011

GRAPH No. 10



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 475 MHz
Radiated Emissions - Horizontal

Limits: FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
— Horizontal Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110931R0 ,21 ,12 ,13 ,14

EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
Phone+(613) 9365 1000 Fax+(613) 9331 7455

Peaks:					
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)	dL1 (dB)
1	480.06	44.2	43.5	46.0	-2.5
2	700.00	40.9	35.9	46.0	-10.1
3	960.13	44.4	41.7	54.0	-12.3
4	90.83	31.6	30.2	43.5	-13.3
5	899.95	34.2	31.7	46.0	-14.3
6	96.22	29.4	28.0	43.5	-15.5
7	203.09	29.1	27.0	43.5	-16.5
8	500.01	36.6	29.4	46.0	-16.6
9	70.22	25.6	20.4	40.0	-19.6

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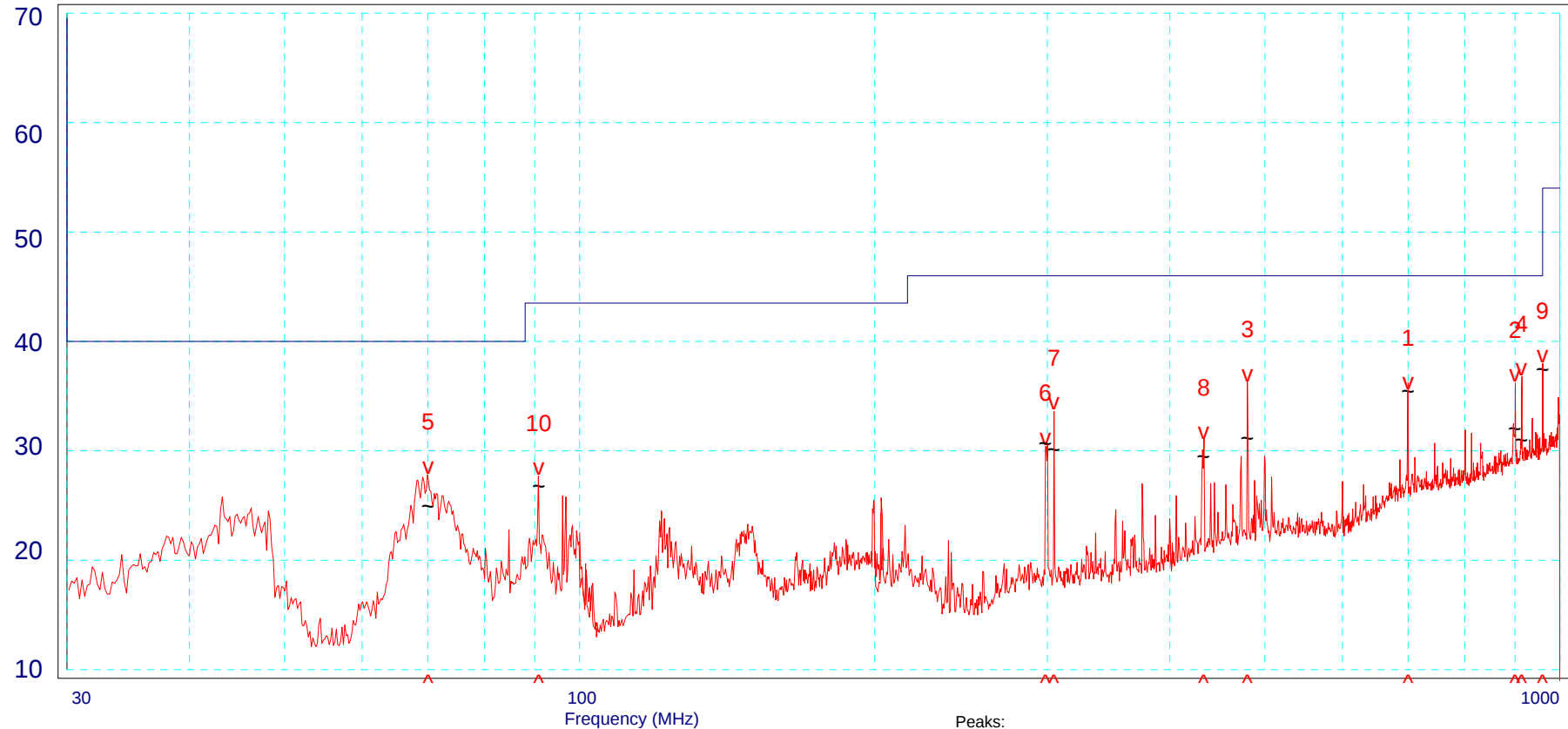
FCC Class B
Radiated Emissions (dBuV/m)
= Ambient

Job No:M110931

p:\PCFM110931_11.PCF

Test Date: 04/10/2011

GRAPH No. 11



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 960 MHz
Radiated Emissions - Vertical

Limits:
FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
— Vertical Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M11093125, 26, 27, 28, 29

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Phone+(613) 9365 1000 Fax+(613) 9331 7455

Peaks:

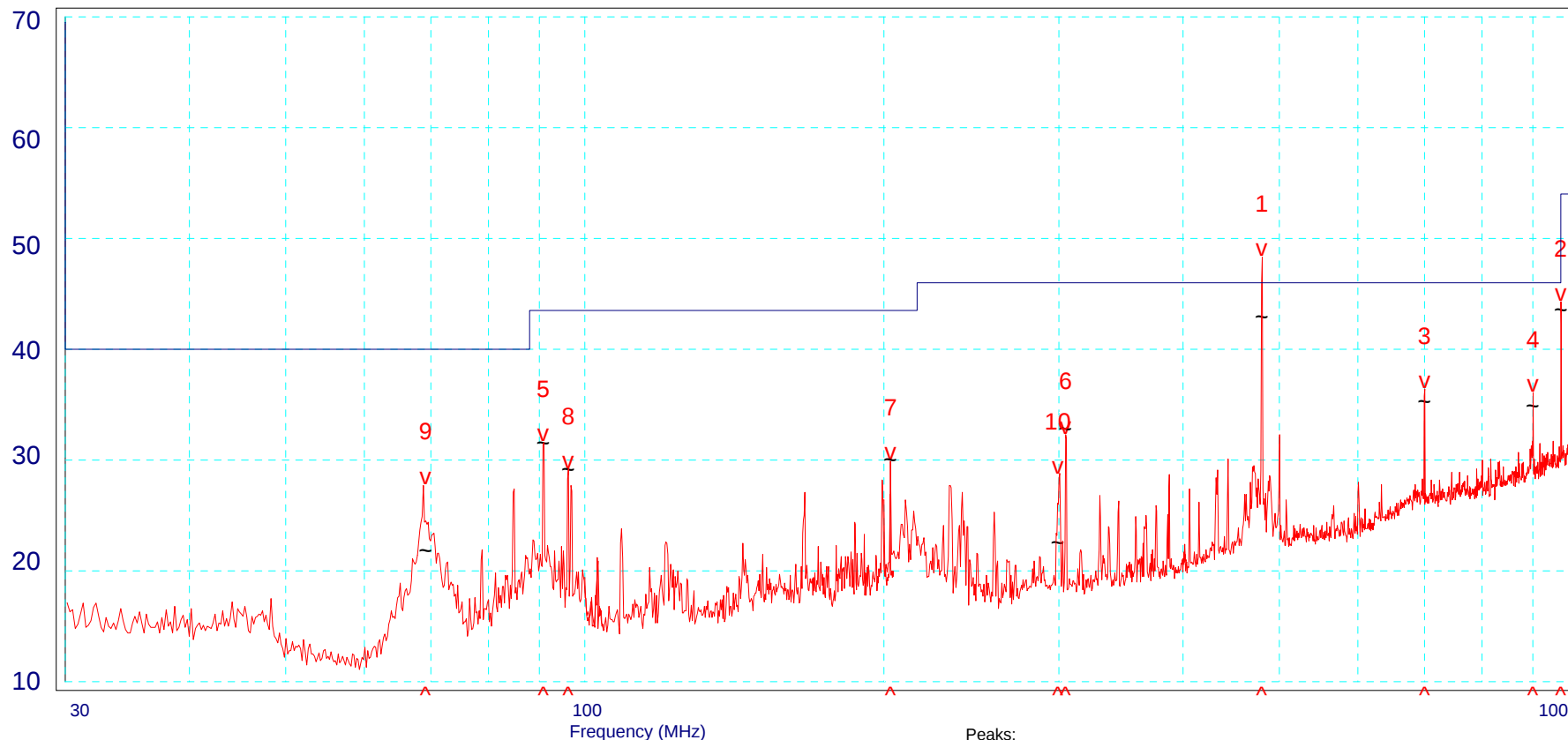
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)	dL1 (dB)
1	699.99	35.5	34.7	46.0	-11.3
2	899.94	36.3	31.2	46.0	-14.8
3	480.02	36.3	30.4	46.0	-15.6
4	913.92	36.8	30.2	46.0	-15.8
5	70.06	27.8	24.2	40.0	-15.8
6	298.66	30.5	29.9	46.0	-16.1
7	304.63	33.7	29.4	46.0	-16.6
8	433.07	31.0	28.7	46.0	-17.3
9	960.11	38.0	36.6	54.0	-17.4
10	90.85	27.7	25.9	43.5	-17.6

EMC Technologies Pty. Ltd. - Global Product Certification

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

Job No:M110931 p:\PCFM110931_12.PCF
Test Date: 04/10/2011

GRAPH No. 12



Radixon Group
G3 Series Radio Receiver - USB
Tuned to 960 MHz
Radiated Emissions - Horizontal

Limits:
FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
Horizontal Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110931R3 ,24 ,30 ,31 ,32

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