

TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: Pro Tech Monitoring inc.
Smart Active Tracker MTD2000

To: Part 15 subpart B Clause 15.107/15.109

Test Report Serial No:
RFI/EMCE3/RP72155JD03A

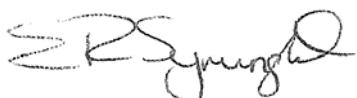
Supersedes Test Report Serial No:
RFI/EMCE2/RP72155JD03A

This Test Report Is Issued Under The Authority
Of Andrew Brown, Operations Manager:



Tested By: Giles Aldridge

pp



Checked By: Andrew Coombes



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Test Dates: 04 September 2006

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Test Of: **Pro Tech Monitoring inc.**
Smart Active Tracker MTD2000

To: **Part 15 subpart B Clause 15.107/15.109**

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1. Client Information

Company Name:	Pro Tech Monitoring inc
Address:	2549 Success Drive Odessa FL 33556
Contact Name:	Mr D Segal

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2. Equipment Under Test (EUT)

The following information (with the exception of the date of receipt) has been supplied by the client:

2.1. Identification of Equipment Under Test (EUT)

Description:	Mobile Station
Brand Name:	Pro Tech Monitoring
Model Name or Number:	MTD 2000
Serial Number:	33583968
IMEI Number:	353239001882478
Hardware Revision:	IC
Software Revision:	3
Software Version Number:	Not Applicable
FCC ID:	NC3MTD2000
Country of Manufacture:	United Stated
Date of Receipt:	01 September 2006

Description:	Docking Station
Brand Name:	Pro Tech Monitoring
Model Name or Number:	MCS 1000
Serial Number:	50352301
FCC ID:	NC3HC51000
Country of Manufacture:	United Stated
Date of Receipt:	01 September 2006

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Identification of Equipment Under Test (EUT) (Continued)

Description:	AC Charger/Adapter
Brand Name:	CUI Inc
Model Name or Number:	DSA-0151A-05A
Unique Type Identification:	DPS050240-P8
Serial Number:	5205
FCC ID:	Not Stated
Country of Manufacture:	China
Date of Receipt:	01 September 2006

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2.2. Description of EUT

The equipment under test is a smart passive tracker (850/1900) mobile station with infra-red functionality with docking station and AC (110 Volts 60 Hz) charger.

2.3. Modifications Incorporated in the EUT

During the course of testing the EUT was not modified.

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2.4. Additional Information Related to Testing

Equipment Category:	GSM 850/GSM 1900
Type of Unit:	Fixed Use (when powered by AC mains)
Weight:	450g
Dimensions:	12 cm x 5 cm x 9 cm
Transmit Output Power Characteristics:	GSM 850: +33dBm GSM 1900: +30dBm
Alignment Range:	
Transmitter	824 to 849 MHz
Receiver	1850 to 1910 MHz
Allocated (Test) Frequency:	
Transmitter	190
Receiver	660
Power Supply Requirement:	
DC Supply (Volts)	Not Applicable
AC Supply (Volts)	115 V 60 Hz AC Mains supply
Internal Battery Supply (Volts)	Not Applicable
Intended Operating Environment:	Within GSM Coverage
Cycle Time:	Less than 1 sec

2.5. Port Identification

Port	Description	Type	Applicable
1	Enclosure	-	Y
2	Power Lead	1.8	Y

2.6. Support Equipment

No support equipment was used to exercise the EUT during testing.

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3. Test Specification, Methods and Procedures

3.1. Test Specification

Reference:	FCC Part 15: 2001 Class B
Title:	Code of Federal Regulations, Part 15 (47CFR15) Radio Frequency Devices: Digital Devices.
Comments:	A description of the test facility used for this test is on file with, and has been accepted by, the Federal Communications Commission as required by Section 2.948 of Federal Rules.
Purpose of Test:	To determine whether the equipment complies with the requirements of the specification to achieve the relevant approval.

3.2. Methods and Procedures

The EUT has been configured and tested in accordance with the methods and procedures as detailed within the standard stated above.

3.3. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the methods & procedures section above. Appendix 1 contains a list of the test equipment used.

4. Deviations from the Test Specification

There were no deviations from the test specification.

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5. Operation of the EUT during Testing

5.1. Operating Modes

The EUT was tested in the following operating mode(s):

- 1.) Conducted Emissions – GSM850 and GSM1900 Idle mode
- 2.) Radiated Emissions – GSM850 Idle mode, with and without charger and cradle

The reason for choosing this configuration was that it has been defined by the customer as being typical of normal use and likely to be a worst case with regard to EMC.

5.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

EUT in cradle/charge station connected to mains via charger/plug connected to 115 Volts AC 60Hz for conducted. For radiated emissions it was tested in this configuration and also without the cradle connected.

Please refer to Appendix 2 for a schematic drawing of the test configuration, drawing number DRG\72155\001

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6. Summary of Test Results

Range of Measurements	Specification Reference	Port Type	Compliance Status
Conducted Emissions	FCC Part 15 Class B	AC Mains Input	Complied
Radiated Emissions (30 to 1000 MHz)	FCC Part 15 Class B	Radiated Emissions	Complied

6.1. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ.

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7. Measurements, Examinations and Derived Results

7.1. General Comments

This section contains test results only.

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to section 8 for details of measurement uncertainties.

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7.2. Test Results

7.2.1. AC Mains Conducted Emissions - Quasi Peak Detector Measurements on Live Lines **GSM 850 Idle @ 110 Volts 60 Hz**

7.2.1.1. Plots of the initial scans can be found in Appendix 3.

7.2.1.2. The following table lists frequencies at which emissions were measured using a quasi peak detector:

Test Summary:

Port:	AC Mains Input
Basic Standard:	FCC pt15.107 Class B

Environmental Conditions:

Temperature Variation (°C):	21.0 to 24.0
Relative Humidity Variation (%):	32.0 to 34.0
Atmospheric Pressure Variation (mb):	1010

Results:

Frequency (MHz)	Line	Quasi Peak Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.2050	Live	53.2	63.4	10.2	-	Complied
0.2054	Live	53.2	63.4	10.2	-	Complied
0.2087	Live	52.5	63.4	10.8	-	Complied
0.2107	Live	52.4	63.4	10.8	-	Complied
0.2125	Live	52.2	63.4	10.9	-	Complied
0.3792	Live	40.4	58.3	17.9	-	Complied
0.38176	Live	39.8	58.2	18.4	-	Complied
0.3922	Live	39.6	58.0	18.4	-	Complied
0.6797	Live	37.2	56.0	18.8	-	Complied
0.8454	Live	34.9	56.0	21.1	-	Complied
0.8472	Live	35.5	56.0	20.5	-	Complied
1.1510	Live	36.2	56.0	19.7	-	Complied
1.9828	Live	32.9	56.0	23.0	-	Complied

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AC Mains Conducted Emissions - Quasi Peak Detector Measurements on Live Lines
GSM 850 Idle @ 110 Volts 60 Hz (Continued)

Frequency (MHz)	Line	Quasi Peak Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
2.1702	Live	37.0	56.0	18.9	-	Complied
2.334	Live	39.1	56.0	16.8	-	Complied
2.4752	Live	36.0	56.0	19.9	-	Complied
3.654	Live	37.7	56.0	18.1	-	Complied
3.655	Live	36.8	56.0	19.0	-	Complied
4.6086	Live	40.7	56.0	15.1	-	Complied
4.7358	Live	37.6	56.0	18.4	-	Complied

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7.2.2. AC Mains Conducted Emissions - Average Detector Measurements on Live Lines
GSM 850 Idle @ 110 Volts 60 Hz

7.2.2.1. Following the initial scans and quasi peak measurements, further measurements were made at the relevant frequencies using an average detector. The measured levels were as follows:

Test Summary:

Port:	AC Mains Input
Basic Standard:	FCC pt15.107 Class B

Environmental Conditions:

Temperature Variation (°C):	21.0 to 24.0
Relative Humidity Variation (%):	32.0 to 34.0
Atmospheric Pressure Variation (mb):	1001 to 1010

Results:

Frequency (MHz)	Line	Average Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.2050	Live	40.0	53.4	13.4	-	Complied
0.2054	Live	40.3	53.4	13.1	-	Complied
0.2087	Live	42.4	53.3	10.85	-	Complied
0.2107	Live	42.3	53.2	10.87	-	Complied
0.2125	Live	41.8	53.1	11.30	-	Complied
0.3792	Live	30.5	48.3	17.79	-	Complied
0.38176	Live	30.6	48.2	17.64	-	Complied
0.3922	Live	30.9	48.0	17.11	-	Complied
0.6797	Live	22.6	46.0	23.4	-	Complied
0.8454	Live	19.3	46.0	26.7	-	Complied
0.8472	Live	19.7	46.0	26.25	-	Complied
1.1510	Live	21.6	46.0	24.32	-	Complied
1.9828	Live	17.4	46.0	28.48	-	Complied

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AC Mains Conducted Emissions - Average Detector Measurements on Live Lines GSM 850 Idle @ 110 Volts 60 Hz (Continued)

Frequency (MHz)	Line	Average Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
2.1702	Live	22.3	46.0	23.57	-	Complied
2.334	Live	22.8	46.0	23.06	-	Complied
2.4752	Live	20.9	46.0	24.96	-	Complied
3.654	Live	23.6	46.0	22.22	-	Complied
3.655	Live	23.4	46.0	22.42	-	Complied
4.6086	Live	23.4	46.0	22.40	-	Complied
4.7358	Live	23.5	46.0	22.50	-	Complied

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7.2.3. AC Mains Conducted Emissions - Quasi Peak Detector Measurements on Neutral Lines
GSM 850 Idle Mode @ 110 Volts 60Hz

7.2.3.1. Plots of the initial scans can be found in Appendix 3.

7.2.3.2. The following table lists frequencies at which emissions were measured using a quasi peak detector:

Test Summary:

Port:	AC Mains Input
Basic Standard:	FCC pt15.107 Class B

Environmental Conditions:

Temperature Variation (°C):	21.0 to 24.0
Relative Humidity Variation (%):	32.0 to 34.0
Atmospheric Pressure Variation (mb):	1001 to 1010

Results:

Frequency (MHz)	Line	Quasi Peak Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.223191	Neutral	51.7	62.7	11.0	-	Complied
0.2253	Neutral	51.4	62.6	11.2	-	Complied
0.2316	Neutral	50.6	62.4	11.8	-	Complied
0.2840	Neutral	47.0	60.7	13.7	-	Complied
0.3000	Neutral	46.7	60.2	13.5	-	Complied
0.4071	Neutral	39.8	57.7	17.9	-	Complied
0.5931	Neutral	36.1	56.0	19.9	-	Complied
0.6027	Neutral	37.6	56.0	18.4	-	Complied
0.7278	Neutral	31.2	56.0	24.8	-	Complied
0.734	Neutral	37.6	56.0	18.4	-	Complied
0.9248	Neutral	37.4	56.0	18.5	-	Complied

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AC Mains Conducted Emissions - Quasi Peak Detector Measurements on Neutral Lines
GSM 850 Idle Mode @ 110 Volts 60Hz (Continued)

Frequency (MHz)	Line	Quasi Peak Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
1.0397	Neutral	32.5	56.0	23.4	-	Complied
2.1444	Neutral	38.9	56.0	17.0	-	Complied
2.1951	Neutral	38.5	56.0	17.4	-	Complied
2.3968	Neutral	36.6	56.0	19.3	-	Complied
3.234	Neutral	35.8	56.0	20.0	-	Complied
3.5381	Neutral	39.6	56.0	16.2	-	Complied
3.764	Neutral	36.7	56.0	19.1	-	Complied
4.574	Neutral	38.9	56.0	16.9	-	Complied
4.902	Neutral	37.2	56.0	18.6	-	Complied

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7.2.4. AC Mains Conducted Emissions - Average Detector Measurements on Neutral Lines
GSM 850 Idle Mode @ 110 Volts 60Hz (Continued)

7.2.4.1. Following the initial scans and quasi peak measurements, further measurements were made at the relevant frequencies using an average detector. The measured levels were as follows:

Test Summary:

Port:	AC Mains Input
Basic Standard:	FCC pt15.107 Class B

Environmental Conditions:

Temperature Variation (°C):	21.0 to 24.0
Relative Humidity Variation (%):	32.0 to 34.0
Atmospheric Pressure Variation (mb):	1001 to 1010

Results:

Frequency (MHz)	Line	Average Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.223191	Neutral	40.3	52.7	12.4	-	Complied
0.2253	Neutral	42.1	52.6	10.5	-	Complied
0.2316	Neutral	41.9	52.4	10.48	-	Complied
0.2840	Neutral	38.0	50.7	12.69	-	Complied
0.3000	Neutral	12.9	50.2	37.34	-	Complied
0.4071	Neutral	29.4	47.7	18.30	-	Complied
0.5931	Neutral	22.2	46.0	23.80	-	Complied
0.6027	Neutral	25.6	46.0	20.40	-	Complied
0.7278	Neutral	18.3	46.0	27.66	-	Complied
0.734	Neutral	22.6	46.0	23.36	-	Complied
0.9248	Neutral	21.8	46.0	24.14	-	Complied

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AC Mains Conducted Emissions - Average Detector Measurements on Neutral Lines
GSM 850 Idle Mode @ 110 Volts 60Hz (Continued)

Frequency (MHz)	Line	Average Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
1.0397	Neutral	17.7	46.0	28.23	-	Complied
2.1444	Neutral	22.6	46.0	23.27	-	Complied
2.1951	Neutral	23.4	46.0	22.47	-	Complied
2.3968	Neutral	22.2	46.0	23.66	-	Complied
3.234	Neutral	20.8	46.0	25.03	-	Complied
3.5381	Neutral	24.0	46.0	21.83	-	Complied
3.764	Neutral	22.6	46.0	23.2	-	Complied
4.574	Neutral	22.0	46.0	23.8	-	Complied
4.902	Neutral	23.2	46.0	22.6	-	Complied

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7.2.5. AC Mains Conducted Emissions - Quasi Peak Detector Measurements on Live Lines
GSM 1900 Idle Mode 110 Volts @ 60 Hz

7.2.5.1. Plots of the initial scans can be found in Appendix 3.

7.2.5.2. The following table lists frequencies at which emissions were measured using a quasi peak detector:

Test Summary:

Port:	AC Mains Input
Basic Standard:	FCC pt15.107 Class B

Environmental Conditions:

Temperature Variation (°C):	21.0 to 24.0
Relative Humidity Variation (%):	32.0 to 34.0
Atmospheric Pressure Variation (mb):	1001 to 1010

Results:

Frequency (MHz)	Line	Quasi Peak Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.23761	Live	49.4	62.2	12.8	-	Complied
0.2378	Live	46.3	62.2	15.9	-	Complied
0.2399	Live	49.4	62.1	12.7	-	Complied
0.2419	Live	50.4	62.0	11.6	-	Complied
0.2499	Live	49.2	61.8	12.6	-	Complied
0.2538	Live	48.7	61.6	12.9	-	Complied
0.4499	Live	39.8	56.9	17.1	-	Complied
0.4530	Live	40.2	56.8	16.6	-	Complied
0.6580	Live	38.0	56.0	18.0	-	Complied
0.7991	Live	37.8	56.0	18.2	-	Complied

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GSM 1900 Idle Mode 110 Volts @ 60 Hz

Frequency (MHz)	Line	Quasi Peak Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.9997	Live	37.7	56.0	18.2	-	Complied
1.950	Live	33.6	56.0	22.3	-	Complied
2.0968	Live	35.1	56.0	20.8	-	Complied
2.150	Live	36.1	56.0	19.8	-	Complied
2.1599	Live	38.4	56.0	17.5	-	Complied
2.391	Live	34.7	56.0	21.2	-	Complied
3.482	Live	37.9	56.0	17.9	-	Complied
3.659	Live	38.6	56.0	17.2	-	Complied
4.705	Live	39.0	56.0	16.8	-	Complied
4.735	Live	37.8	56.0	18.2	-	Complied

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7.2.6. AC Mains Conducted Emissions - Average Detector Measurements on Live Lines
GSM 1900 Idle Mode 110 Volts @ 60 Hz

7.2.6.1. Following the initial scans and quasi peak measurements, further measurements were made at the relevant frequencies using an average detector. The measured levels were as follows:

Test Summary:

Port:	AC Mains Input
Basic Standard:	FCC pt15.107 Class B

Environmental Conditions:

Temperature Variation (°C):	21.0 to 24.0
Relative Humidity Variation (%):	32.0 to 34.0
Atmospheric Pressure Variation (mb):	1001 to 1010

Results:

Frequency (MHz)	Line	Average Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.23761	Live	33.3	52.2	18.9	-	Complied
0.2378	Live	31.3	52.2	20.9	-	Complied
0.2399	Live	34.9	52.1	17.19	-	Complied
0.2419	Live	39.1	52.0	12.92	-	Complied
0.2499	Live	42.0	51.8	9.759	-	Complied
0.2538	Live	41.3	51.6	10.32	-	Complied
0.4499	Live	31.0	46.9	15.87	-	Complied
0.4530	Live	31.1	46.8	15.72	-	Complied
0.6580	Live	20.2	46.0	19.8	-	Complied

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AC Mains Conducted Emissions - Average Detector Measurements on Live Lines
GSM 1900 Idle Mode 110 Volts @ 60 Hz (Continued)

Frequency (MHz)	Line	Average Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.7991	Live	24.1	46.0	21.9	-	Complied
0.9997	Live	22.4	46.0	23.54	-	Complied
1.950	Live	18.1	46.0	27.78	-	Complied
2.0968	Live	18.3	46.0	27.57	-	Complied
2.150	Live	19.6	46.0	26.27	-	Complied
2.1599	Live	21.7	46.0	24.17	-	Complied
2.391	Live	19.5	46.0	26.36	-	Complied
3.482	Live	21.8	46.0	24.03	-	Complied
3.659	Live	23.9	46.0	21.927	-	Complied
4.705	Live	22.0	46.0	23.80	-	Complied
4.735	Live	22.0	46.0	24.00	-	Complied

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7.2.7. AC Mains Conducted Emissions - Quasi Peak Detector Measurements on Neutral Lines
GSM 1900 Idle Mode 110 Volts @ 60 Hz

7.2.7.1. Plots of the initial scans can be found in Appendix 3.

7.2.7.2. The following table lists frequencies at which emissions were measured using a quasi peak detector:

Test Summary:

Port:	AC Mains Input
Basic Standard:	FCC pt15.107 Class B

Environmental Conditions:

Temperature Variation (°C):	21.0 to 24.0
Relative Humidity Variation (%):	32.0 to 34.0
Atmospheric Pressure Variation (mb):	1001 to 1010

Results:

Frequency (MHz)	Line	Quasi Peak Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.1649	Neutral	55.0	5.2	10.2	-	Complied
0.1650	Neutral	55.3	65.2	9.9	-	Complied
0.1652	Neutral	55.4	65.2	9.8	-	Complied
0.1656	Neutral	56.1	65.2	9.1	-	Complied
0.2656	Neutral	49.3	61.3	12.0	-	Complied
0.2657	Neutral	48.8	61.2	12.4	-	Complied
0.2666	Neutral	48.8	61.2	12.4	-	Complied
0.4845	Neutral	39.7	56.3	16.6	-	Complied
0.4854	Neutral	39.6	56.2	16.6	-	Complied

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AC Mains Conducted Emissions - Quasi Peak Detector Measurements on Neutral Lines
GSM 1900 Idle Mode 110 Volts @ 60 Hz (Continued)

Frequency (MHz)	Line	Quasi Peak Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.7047	Neutral	38.8	56.0	17.2	-	Complied
0.8582	Neutral	35.9	56.0	20.1	-	Complied
0.8591	Neutral	35.9	56.0	20.1	-	Complied
1.0733	Neutral	33.7	56.0	22.3	-	Complied
2.0869	Neutral	35.1	56.0	20.9	-	Complied
2.2731	Neutral	34.7	56.0	21.3	-	Complied
2.4350	Neutral	32.9	56.0	23.1	-	Complied
3.5651	Neutral	38.7	56.0	17.3	-	Complied
3.6792	Neutral	36.9	56.0	19.1	-	Complied
4.4939	Neutral	39.3	56.0	16.7	-	Complied
4.6731	Neutral	34.6	56.0	21.4	-	Complied

Test Of: Pro Tech Monitoring inc.
Smart Active Tracker MTD2000
To: Part 15 subpart B Clause 15.107/15.109

7.2.8. AC Mains Conducted Emissions - Average Detector Measurements on Neutral Lines
GSM 1900 Idle Mode 110 Volts @ 60 Hz

7.2.8.1. Following the initial scans and quasi peak measurements, further measurements were made at the relevant frequencies using an average detector. The measured levels were as follows:

Test Summary:

Port:	AC Mains Input
Basic Standard:	FCC pt15.107 Class B

Environmental Conditions:

Temperature Variation (°C):	21.0 to 24.0
Relative Humidity Variation (%):	32.0 to 24.0
Atmospheric Pressure Variation (mb):	1001 to 1010

Results:

Frequency (MHz)	Line	Average Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.1649	Neutral	42.4	55.2	12.8	-	Complied
0.1650	Neutral	41.9	55.2	13.3	-	Complied
0.1652	Neutral	41.9	55.2	13.29	-	Complied
0.1656	Neutral	42.0	55.2	13.17	-	Complied
0.2656	Neutral	40.6	51.3	10.65	-	Complied
0.2657	Neutral	40.6	51.2	10.64	-	Complied
0.2666	Neutral	41.1	51.2	10.12	-	Complied
0.4845	Neutral	30.9	46.3	15.36	-	Complied
0.4854	Neutral	31.1	46.2	15.14	-	Complied

Test Of: Pro Tech Monitoring inc.
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AC Mains Conducted Emissions - Average Detector Measurements on Neutral Lines
GSM 1900 Idle Mode 110 Volts @ 60 Hz (Continued)

Frequency (MHz)	Line	Average Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Note(s)	Result
0.7047	Neutral	26.6	46.0	19.4	-	Complied
0.8582	Neutral	19.9	46.0	26.7	-	Complied
0.8591	Neutral	19.9	46.0	26.1	-	Complied
1.0733	Neutral	16.5	46.0	29.5	-	Complied
2.0869	Neutral	18.2	46.0	27.8	-	Complied
2.2731	Neutral	18.7	46.0	27.3	-	Complied
2.4350	Neutral	18.0	46.0	28.0	-	Complied
3.5651	Neutral	23.1	46.0	22.9	-	Complied
3.6792	Neutral	21.9	46.0	24.1	-	Complied
4.4939	Neutral	19.4	46.0	26.6	-	Complied
4.6731	Neutral	19.3	46.0	26.7	-	Complied

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**7.2.9. Radiated Emissions - Electric Field Strength Measurements (Frequency Range: 30 to 1000 MHz)
 GSM 850 Idle Mode**

7.2.9.1. Plots of the initial scans can be found in Appendix 3.

7.2.9.2. The following table lists frequencies at which emissions were measured using a quasi peak detector, at a test measurement distance of 3 meters:

Test Summary:

Port:	Enclosure
Basic Standard:	FCC pt15.109 Class B

Environmental Conditions:

Temperature Variation (°C):	24.0
Relative Humidity Variation (%):	32.0
Atmospheric Pressure Variation (mb):	1000

Results:

Frequency (MHz)	Antenna Polarity	Quasi Peak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Note(s)	Result
See Note Below						

Note(s):

1. No emissions were detected below the noise floor of the measuring equipment and therefore no final measurements were made.

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 Smart Active Tracker MTD2000
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**7.2.10. Radiated Emissions - Electric Field Strength Measurements (Frequency Range: Above 1000 MHz)
 GSM 850 Idle Mode**

7.2.10.1. Plots of the initial scans can be found in Appendix 3.

7.2.10.2. The client has stated that the highest frequency for the EUT was 1910 MHz. Therefore tests were performed up to 10000 MHz.

7.2.10.3. The following table lists frequencies at which emissions were measured using a quasi peak detector, at a test measurement distance of 3 meters:

Test Summary:

Port:	Enclosure
Basic Standard:	FCC pt15.109 Class B

Environmental Conditions:

Temperature Variation (°C):	24.0 to 22.0
Relative Humidity Variation (%):	32.0 to 33.0
Atmospheric Pressure Variation (mb):	1001 to 1000

Results:

Frequency (MHz)	Antenna Polarity	Quasi Peak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Note(s)	Result
See Note Below						

Note(s):

1. No emissions were detected below the noise floor of the measuring equipment and therefore no final measurements were made.

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Smart Active Tracker MTD2000
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8. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Range	Confidence Level	Calculated Uncertainty
Radiated Emissions	30 to 1000 MHz	95%	± 4.54 dB
Radiated Emissions	1 to 2 GHz	95%	± 4.76 dB
Radiated Emissions	2 to 4 GHz	95%	± 4.76 dB
Radiated Emissions	4 to 6 GHz	95%	± 4.74 dB
Radiated Emissions	6 to 8 GHz	95%	± 4.76 dB
Radiated Emissions	8 to 12 GHz	95%	± 4.79 dB
Conducted Emissions AC (and DC) Lines	150 kHz to 30 MHz	95%	± 3.66 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

Where it has been necessary to perform measurements using the substitution method, it has not been possible to calculate an uncertainty for this measurement. Due to the complex effects on the emissions levels measured within a screened room with either a signal source or the equipment under test, the calculation of a general measurement uncertainty for this process would be unrepresentative for all possible measured results.

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Smart Active Tracker MTD2000
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Appendix 1. Measurement Methods

A1.1. AC Mains Conducted Emissions

A1.1.1. AC mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

A1.1.2. The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane and with the EUT powered via a 60 Hz AC mains supply.

A1.1.3. Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

A1.1.4. Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested (at individual frequencies) using the appropriate detector function.

A1.1.5. The test equipment settings for conducted emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements
Detector Type:	Peak	Quasi-Peak (CISPR)*
Mode:	Max Hold	Not applicable
Bandwidth:	10 kHz	9 kHz
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	> 1 s
Observation Time:	Not applicable	> 15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

* In some instances an Average detector function may also have been used.

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A1.2. Radiated Emissions

A1.2.1. Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

A1.2.2. Initial measurements covering the entire measurement band in the form of swept scans in a shielded enclosure were performed in order to identify frequencies on which the EUT was generating interference. This determined the frequencies on which the EUT should be re-measured in full on the open area test site. In order to minimise the time taken for the swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

A1.2.3. The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. Following the initial scans, graphs were produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested on the open area test site, at the appropriate distance, using a measuring receivers with a Quasi-Peak detector (below 1000 MHz), where applicable, for measurements above 1000 MHz average and peak detectors were used.

A1.2.4. For the main (final) measurements the EUT was arranged on a non-conducting table on an open area test site, as detailed in the specification.

A1.2.5. All measurements on the open area test site were performed using broadband antennas.

A1.2.6. On the open area test site, at each frequency where a signal was found, the levels were maximised by initially rotating the turntable through 360° and then varying the antenna height between 1 m and 4 m. At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT.

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Radiated Emissions (Continued)

A1.2.7. The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements Below 1GHz	Final Measurements Above 1 GHz
~	Peak	Quasi-Peak (CISPR)	Peak/Average
Mode:	Max Hold	Not applicable	Not applicable
Bandwidth:	100 kHz	120 kHz	1 MHz
Amplitude Range:	60 dB	20 dB	20 dB (typical)
Measurement Time:	Not applicable	> 1 s	> 1 s
Observation Time:	Not applicable	> 15 s	> 15 s
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

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Appendix 2. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval
A027	1 to 2 GHz Horn Antenna	Eaton	9188-2	301	08 June 2006	36
A031	2 to 4 GHz Horn Antenna	Eaton	91889-2	557	08 June 2006	36
A1227	Pre Amplifier	Agilent	8449B	3008A01566	30 Aug 2006	12
A1516	CMU200	Rohde & Schwarz	CMU200	1100.0008.02	N/A	-
A1529	Hyper LOG 7025	AARONIA AG	7025	02460	N/A	-
A253	WG 12 Microwave Horn	Flann Microwave	12240-20	128	02 Jul 2004	36
A427	WG 14 horn	Flann	14240-20	150	06 Oct 2003	36
A429	WG 16 horn	Flann	16240-20	561	18 Oct 2005	36
A553	Bi-log Antenna	Chase	CBL6111A	1593	18 Oct 2005	12
C1158	Utiflex	Rosenberger	FA210A1010 005G5G	3305 42447-1	01 Apr 2006	12
C1160	Utiflex	Rosenberger	FA210A1050 005050	3305 42449-2	01 Apr 2006	12
C1161	Utiflex	Rosenberger	05 42448-1	33	01 Apr 2006	12
C363	BNC Cable	Rosenberger	RG142	None	01 Apr 2006	12
M1180	Thermo-Hygro	RS	212-124	N/A	18 Feb 2006	12
M1273	ESIB 26 EMI Test Receiver	Rhode & Schwarz	ESIB 26	100275	26 Jan 2006	12

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

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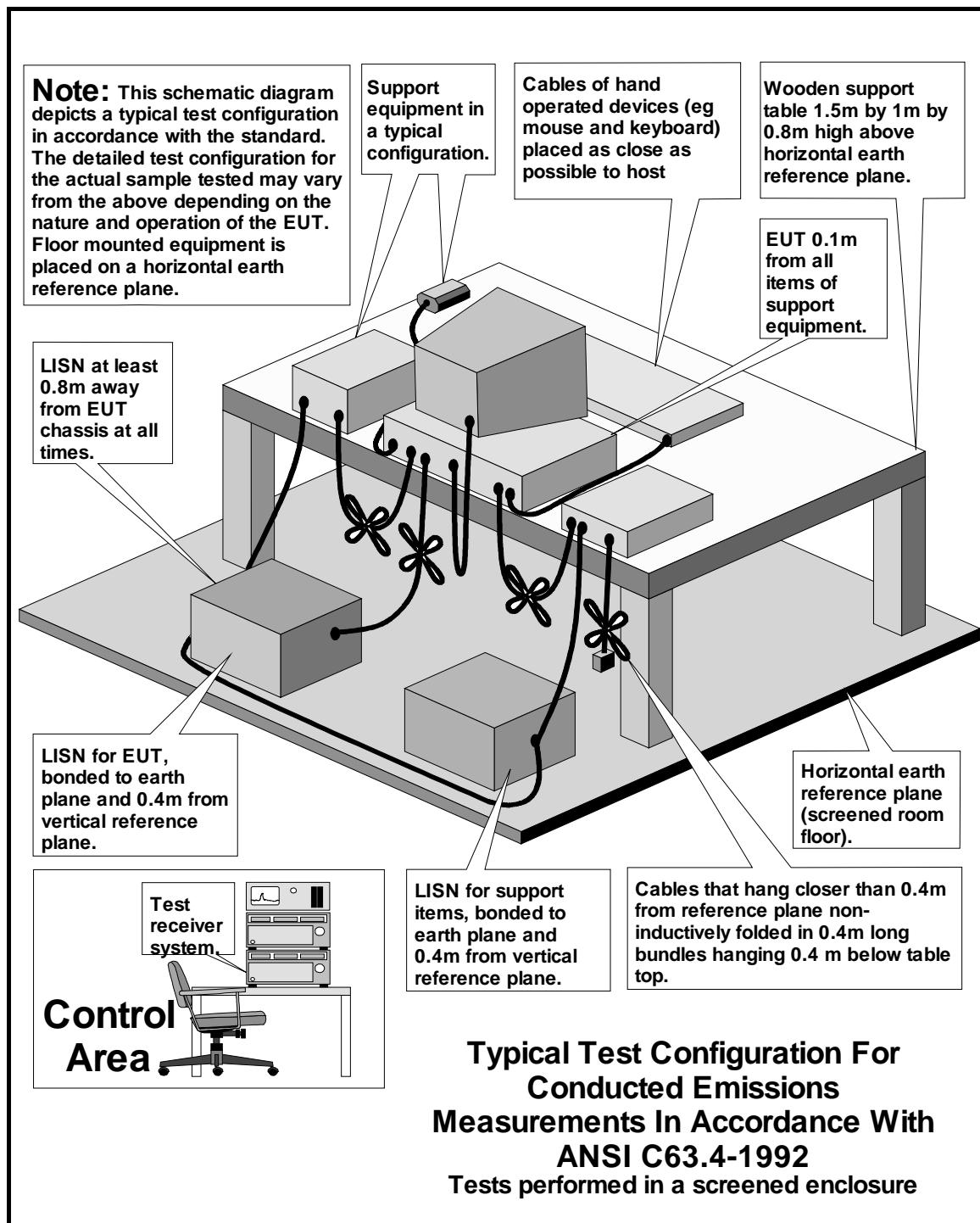
Appendix 3. Test Configuration Drawings and Photos

This Appendix contains the following drawings:

Drawing Reference Number	Title
DRG\72155\EMICON	Test configuration diagram for measurement of conducted emissions
DRG\72155\EMIRAD	Test configuration diagram for measurement of radiated emissions
DRG\72155\001	Schematic diagram of the EUT, support equipment and interconnecting cables used for the test
DRG\72155\002	Test configuration photo for measurement of conducted emissions
DRG\72155\003	Test configuration photo for radiated emissions pre-scans

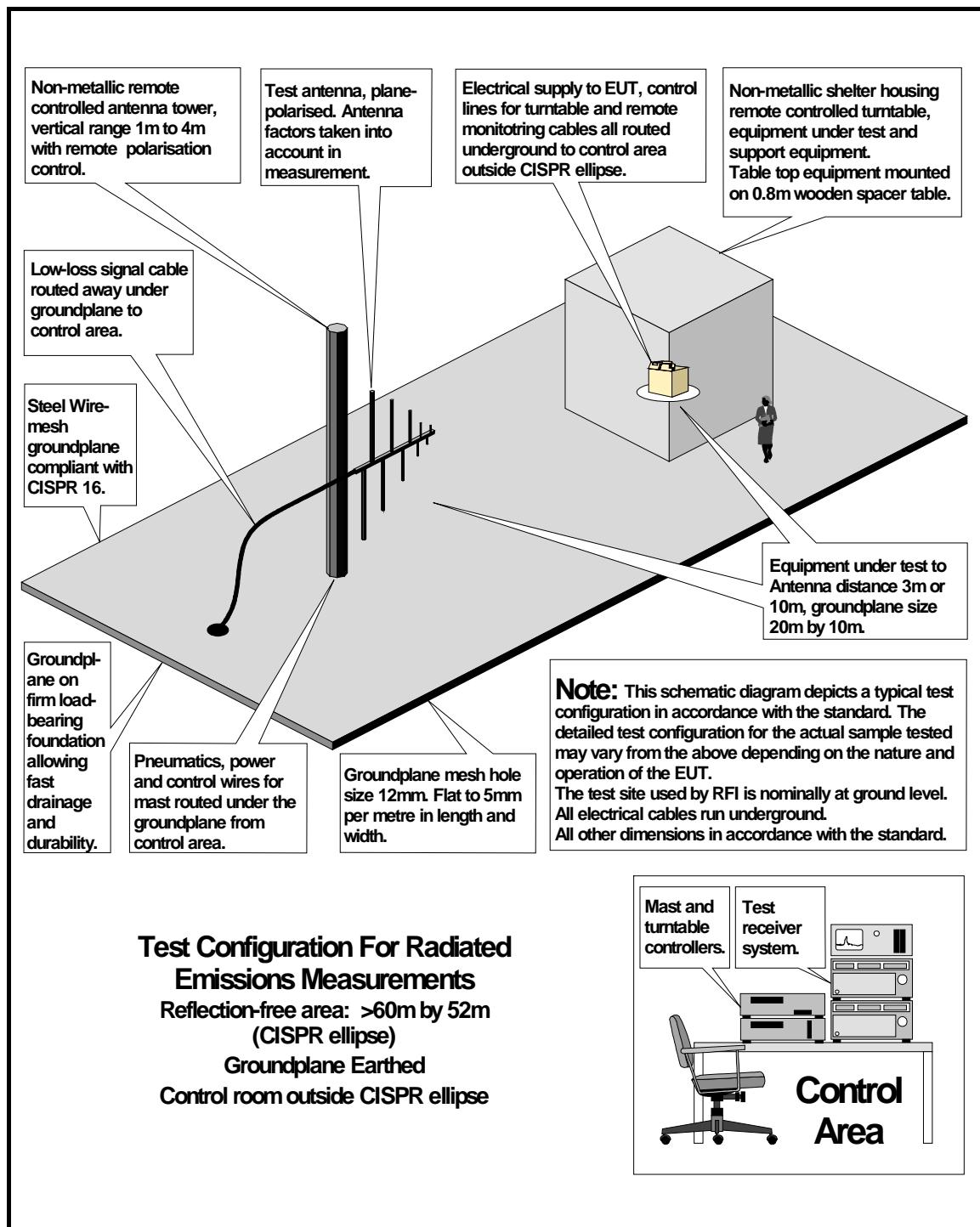
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DRG\72155\EMICON



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DRG\72155\EMIRAD

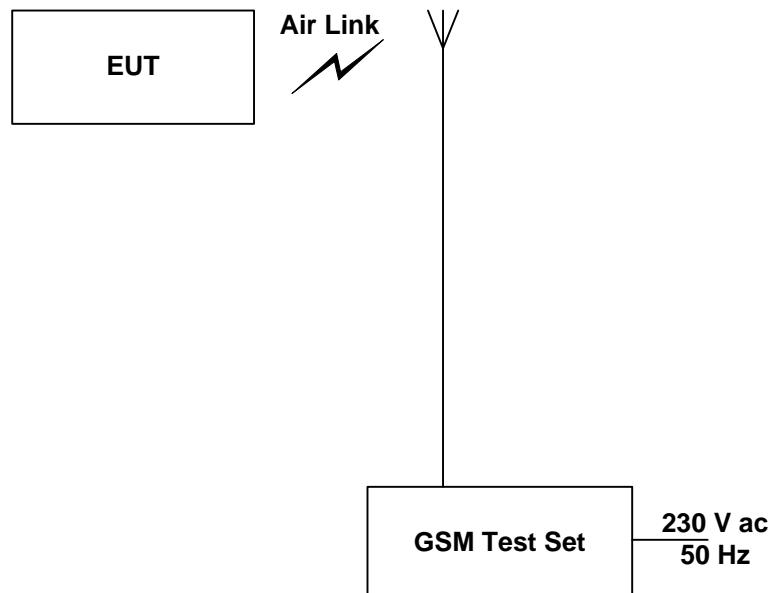


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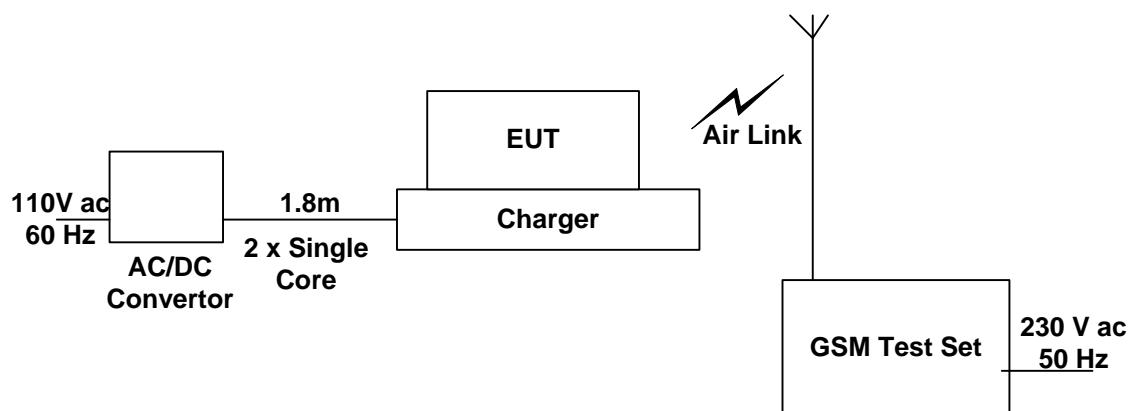
DRG\72155\001

Configuration of EUT and Local Support Equipment

Configuration 1



Configuration 2



Configuration of Remote Support Equipment

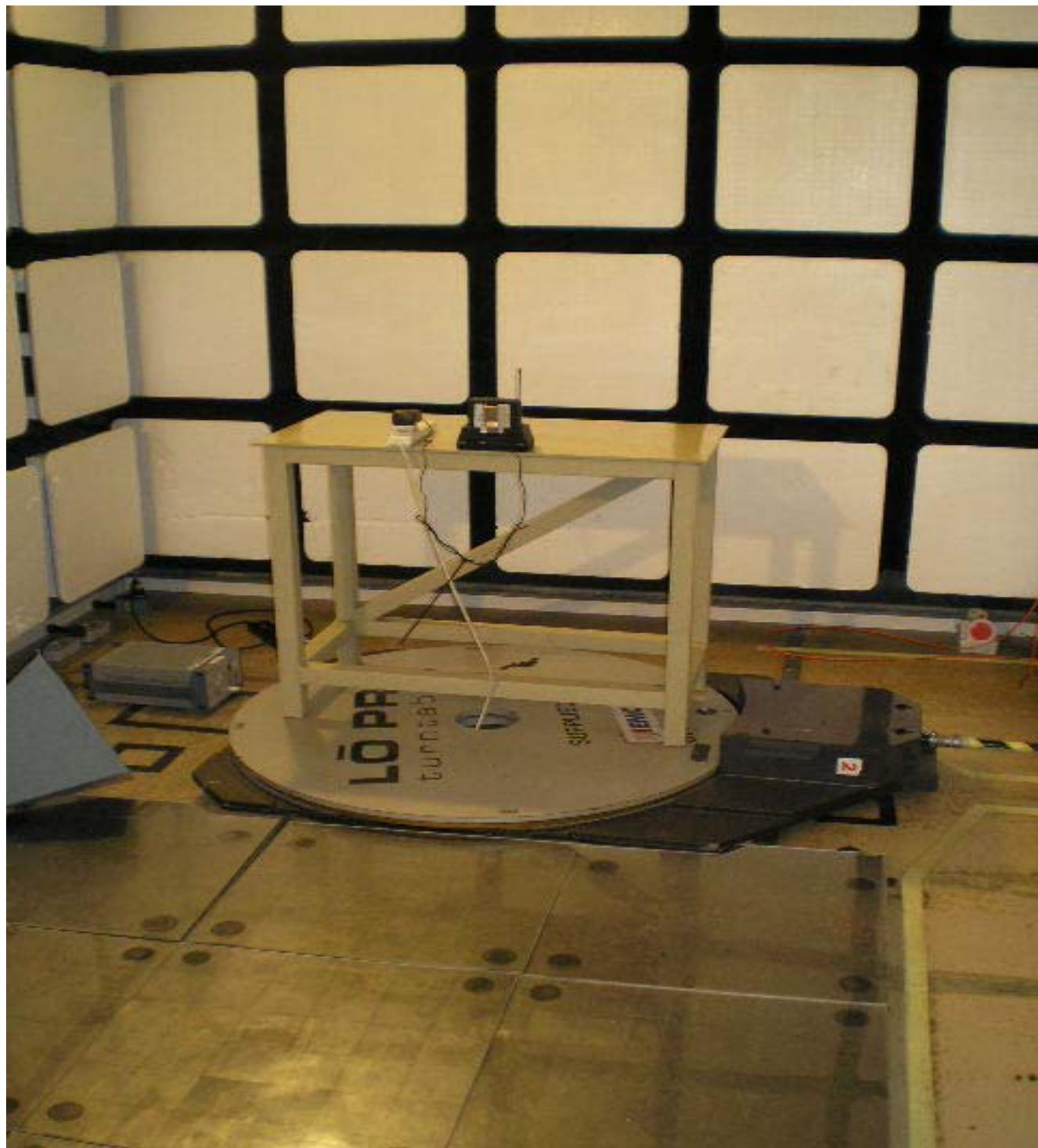
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DRG\72155\002



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DRG\72155\003



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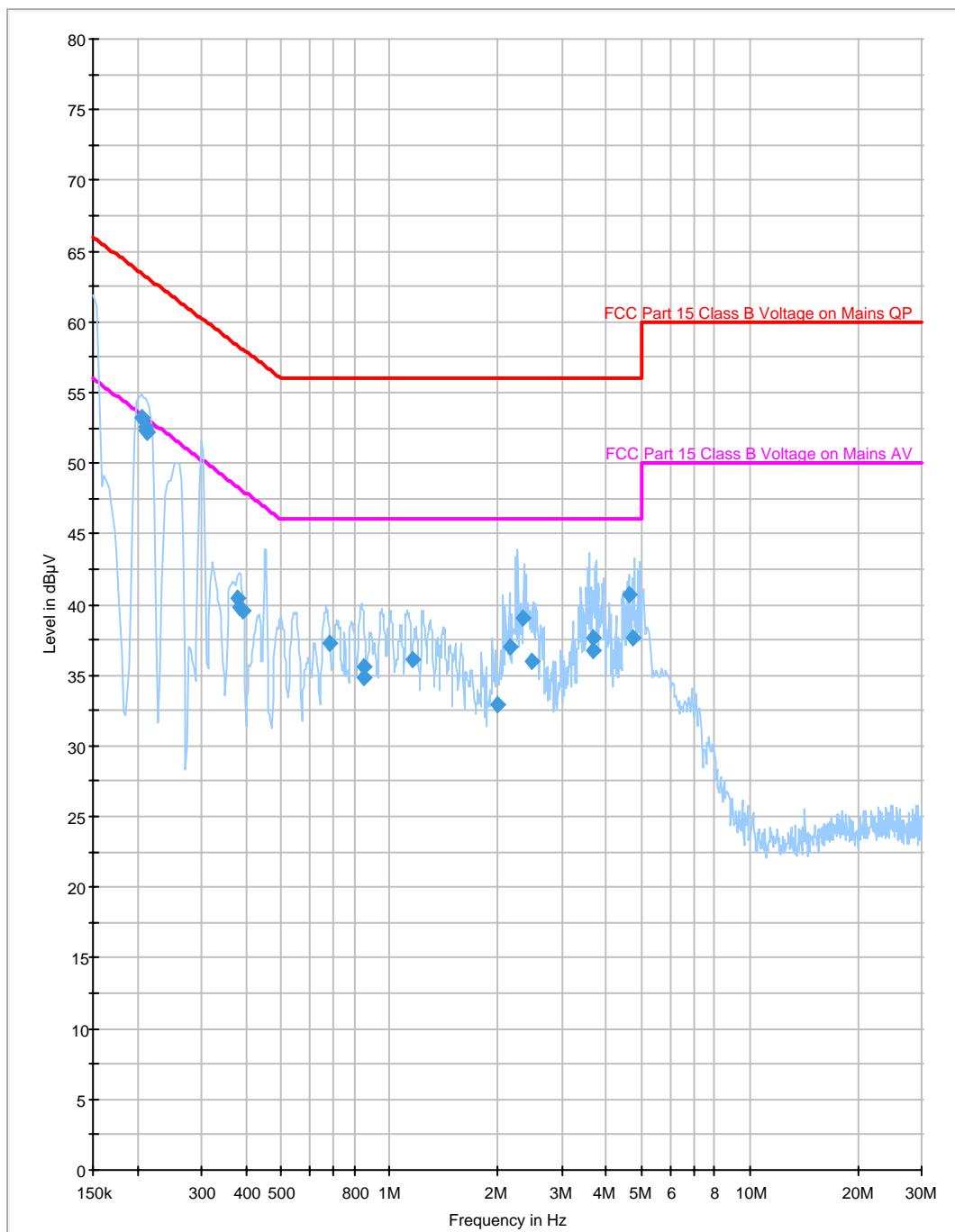
Appendix 4. Graphical Test Results

This Appendix contains the following graphs:

Graph Reference Number	Title
GPH\72155\001	Conducted Emissions Pre-Scan (0.15 MHz to 30.0 MHz) – GSM 850 MHz Idle – 110 Volts @ 60 Hz - Live
GPH\72155\002	Conducted Emissions Pre-Scan (0.15 MHz to 30.0 MHz) - GSM 850 MHz Idle – 110 Volts @ 60 Hz - Neutral
GPH\72155\003	Conducted Emissions Pre-Scan (0.15 MHz to 30.0 MHz)) – GSM 1900 MHz Idle – 110 Volts @ 60 Hz - Live
GPH\72155\004	Conducted Emissions Pre-Scan (0.15 MHz to 30.0 MHz) - GSM 1900 MHz Idle – 110 Volts @ 60 Hz - Neutral
GPH\72155\005	Radiated Emissions Pre-Scan (30.0 MHz to 1000.0 MHz) – GSM 850 MHz Idle (Without Cradle + Charger)
GPH\72155\006	Radiated Emissions Pre-Scan (1000.0 MHz to 2000.0 MHz) – GSM 850 MHz Idle (Without Cradle + Charger)
GPH\72155\007	Radiated Emissions Pre-Scan (2000.0 MHz to 4000.0 MHz) – GSM 850 MHz Idle (Without Cradle + Charger)
GPH\72155\008	Radiated Emissions Pre-Scan (4000.0 MHz to 6000.0 MHz) – GSM 850 MHz Idle (Without Cradle + Charger)
GPH\72155\009	Radiated Emissions Pre-Scan (6000.0 MHz to 8000.0 MHz) – GSM 850 MHz Idle (Without Cradle + Charger)
GPH\72155\010	Radiated Emissions Pre-Scan (8000.0 MHz to 12000.0 MHz) – GSM 850 MHz Idle (Without Cradle + Charger)
GPH\72155\011	Radiated Emissions Pre-Scan (30.0 MHz to 1000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)
GPH\72155\012	Radiated Emissions Pre-Scan (1000.0 MHz to 2000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)
GPH\72155\013	Radiated Emissions Pre-Scan (2000.0 MHz to 4000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)
GPH\72155\014	Radiated Emissions Pre-Scan (4000.0 MHz to 6000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)
GPH\72155\015	Radiated Emissions Pre-Scan (6000.0 MHz to 8000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)
GPH\72155\016	Radiated Emissions Pre-Scan (8000.0 MHz to 12000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)

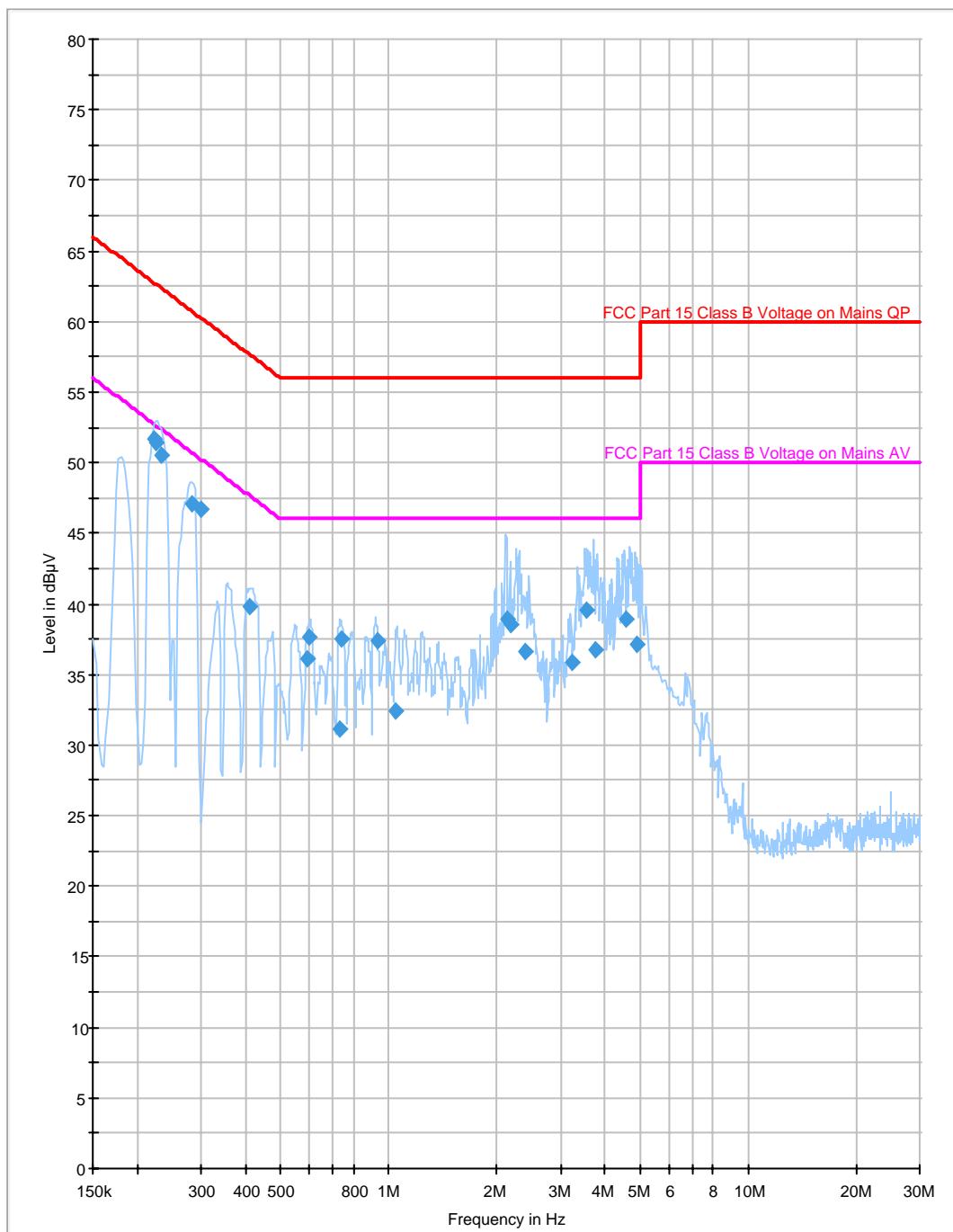
Test Of: Pro Tech Monitoring inc.
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GPH\72155\001
Conducted Emissions Pre-Scan
(0.15 MHz to 30.0 MHz) – GSM 850 MHz Idle – 110 Volts @ 60 Hz - Live



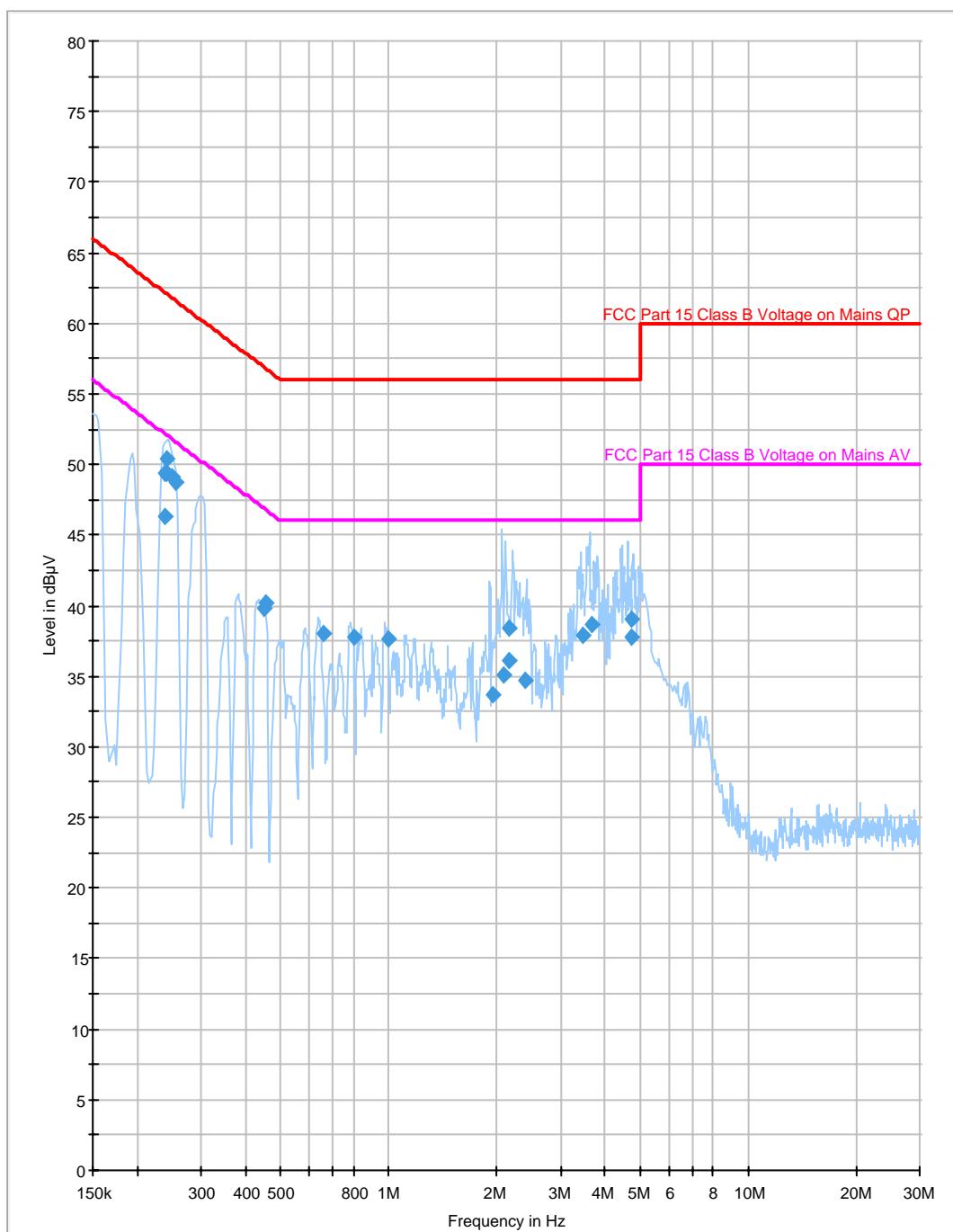
Test Of: Pro Tech Monitoring inc.
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GPH\72155\002
Conducted Emissions Pre-Scan
(0.15 MHz to 30.0 MHz) – GSM 850 MHz Idle – 110 Volts @ 60 Hz - Neutral



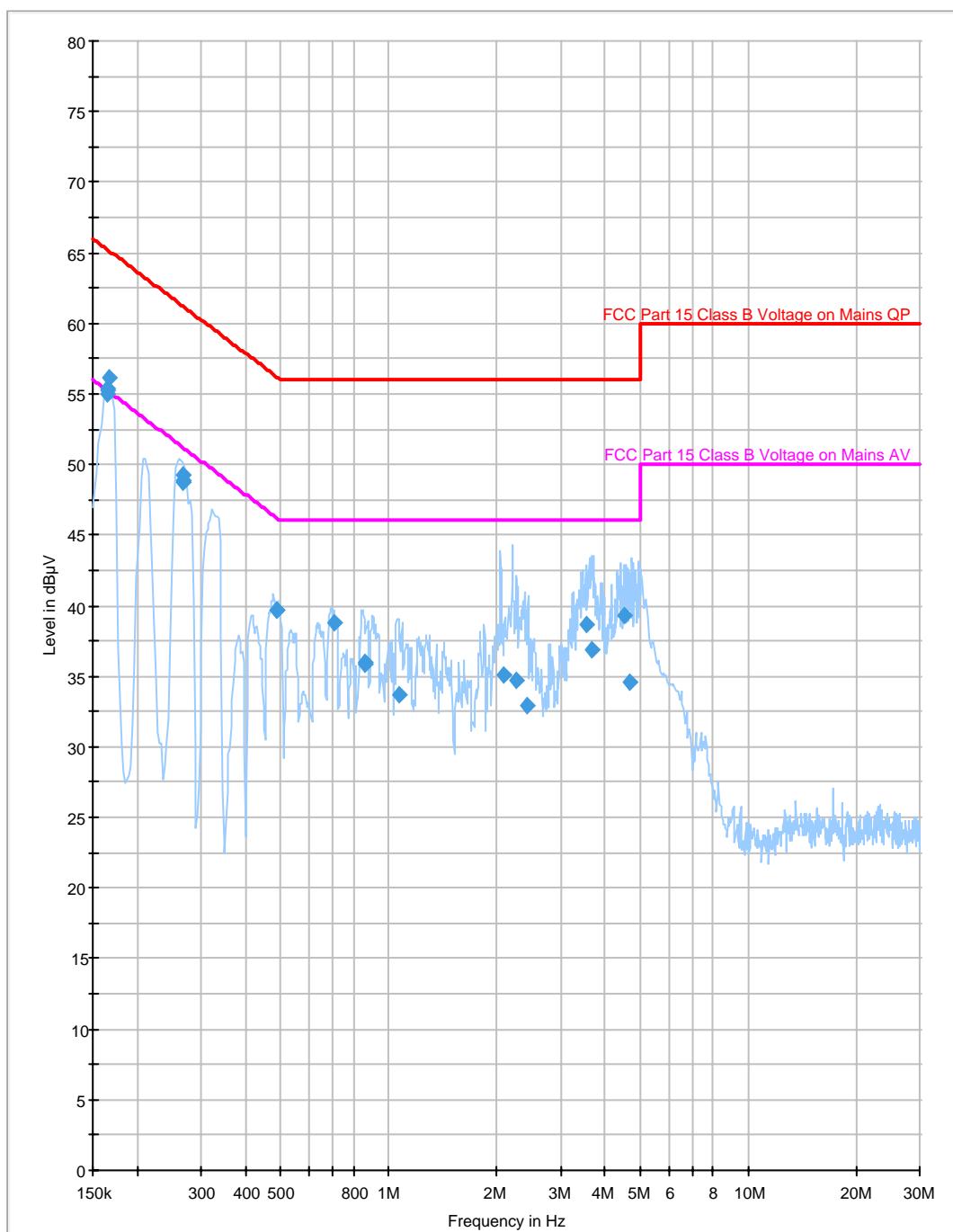
Test Of: Pro Tech Monitoring inc.
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GPH\72155\003
Conducted Emissions Pre-Scan
(0.15 MHz to 30.0 MHz) – GSM 1900 MHz Idle – 110 Volts @ 60 Hz - Live



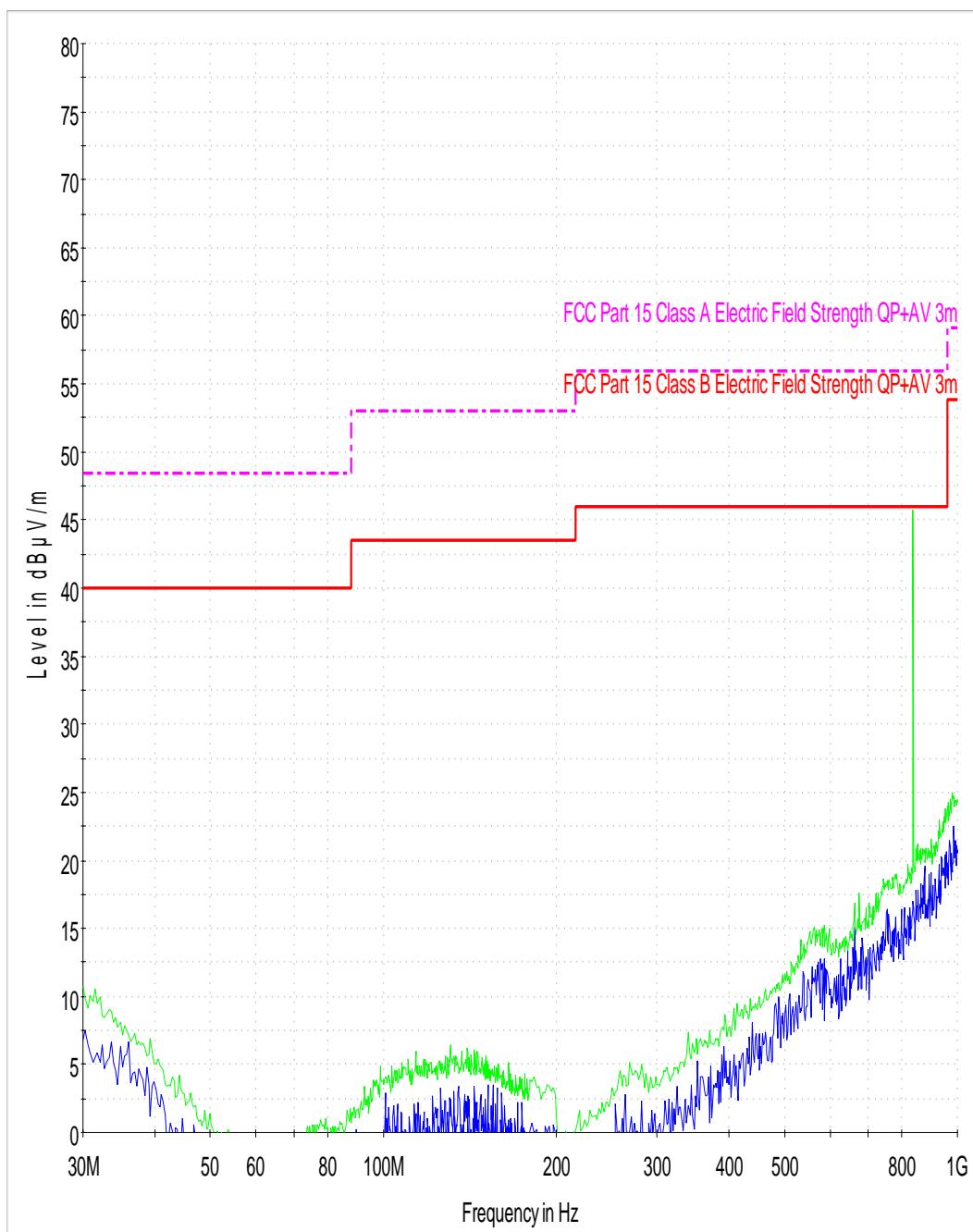
Test Of: Pro Tech Monitoring inc.
Smart Active Tracker MTD2000
To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\004
Conducted Emissions Pre-Scan
(0.15 MHz to 30.0 MHz) – GSM 1900 MHz Idle – 110 Volts @ 60 Hz – Neutral



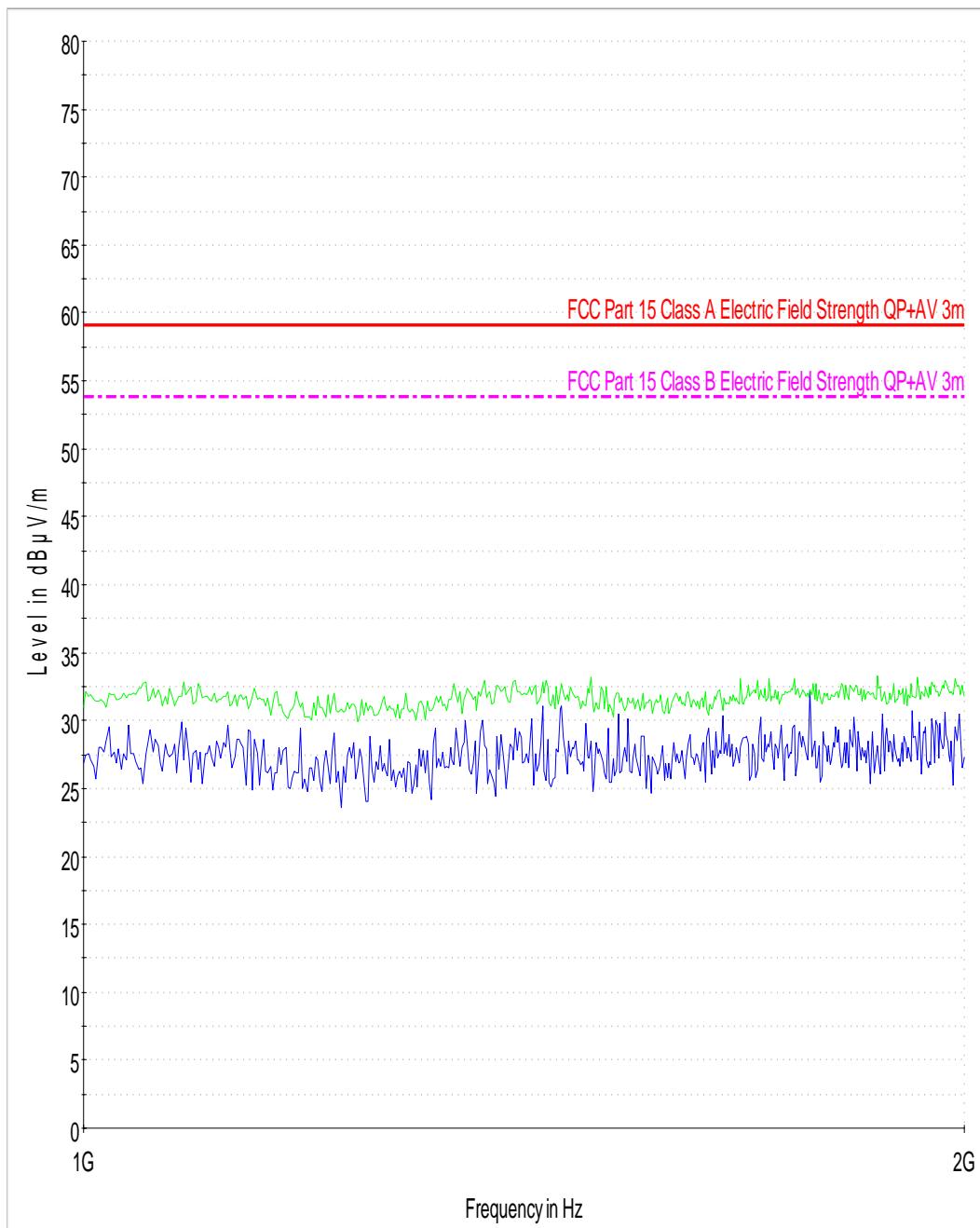
Test Of: Pro Tech Monitoring inc.
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To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\005
Radiated Emissions Pre-Scan
(30.0 MHz to 1000.0 MHz) - GSM 850 MHz Idle (Without Cradle + Charger)



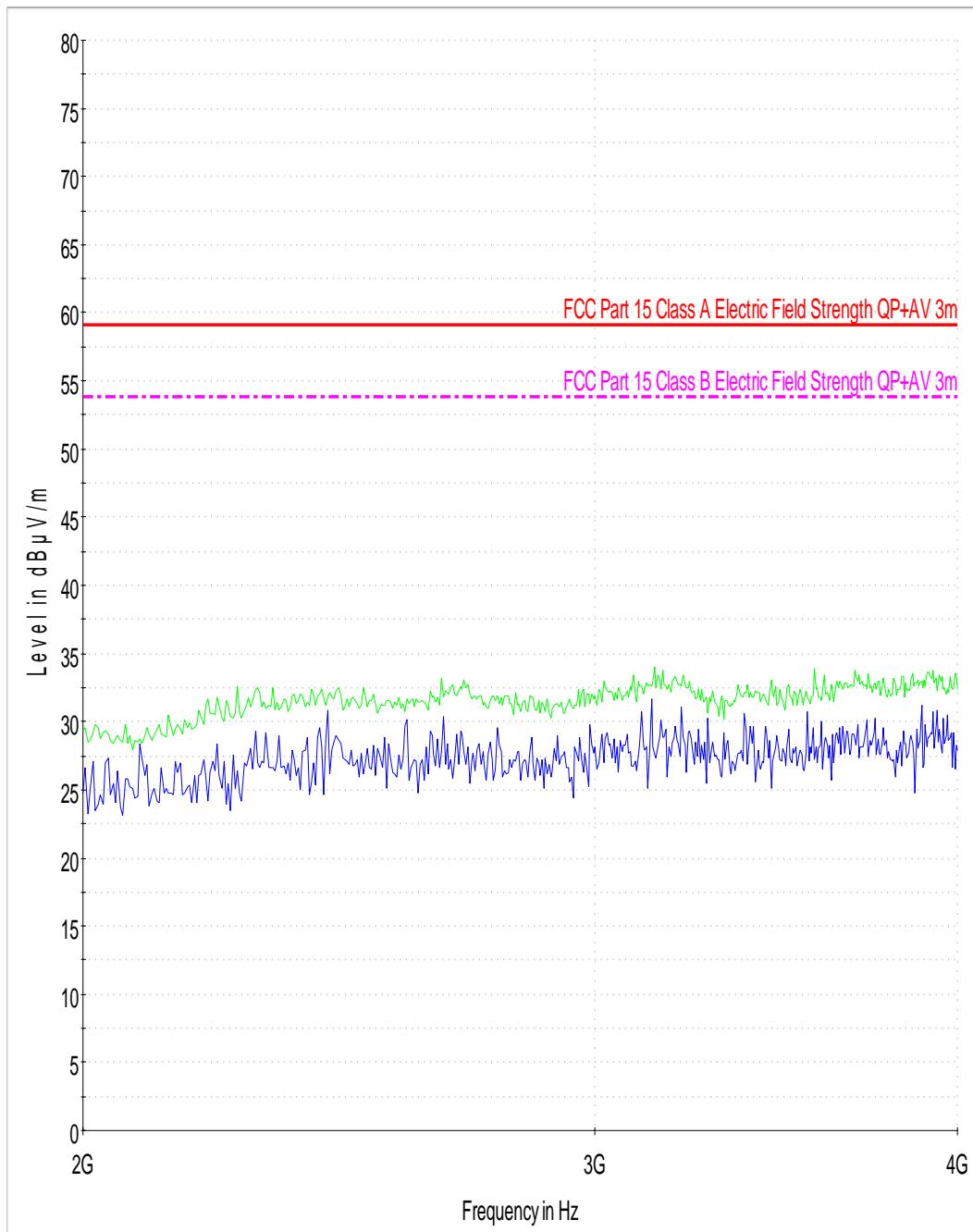
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To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\006
Radiated Emissions Pre-Scan
(1000.0 MHz to 2000.0 MHz) - GSM 850 MHz Idle (Without Cradle + Charger)



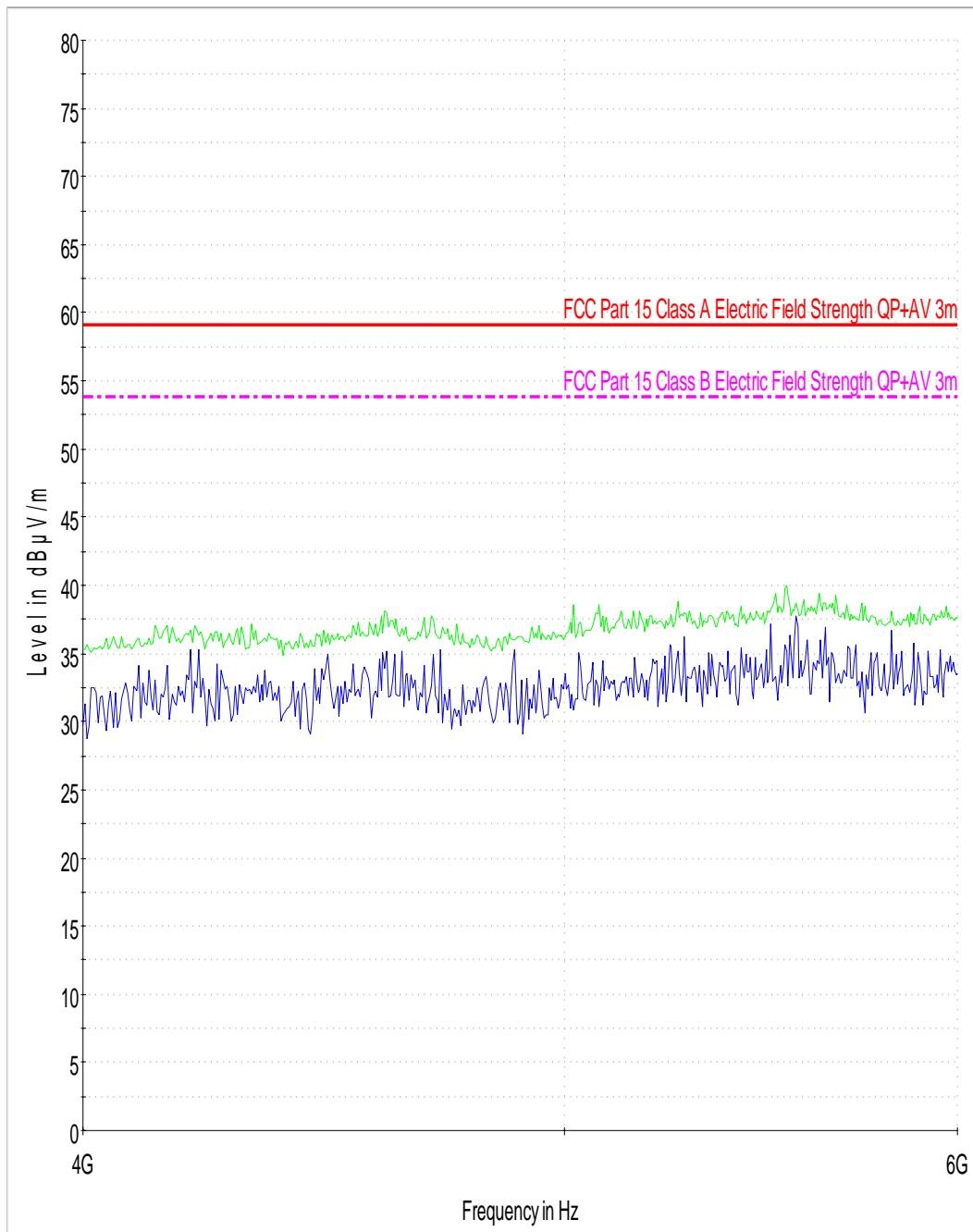
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Smart Active Tracker MTD2000
To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\007
Radiated Emissions Pre-Scan
(2000.0 MHz to 4000.0 MHz) - GSM 850 MHz Idle (Without Cradle + Charger)



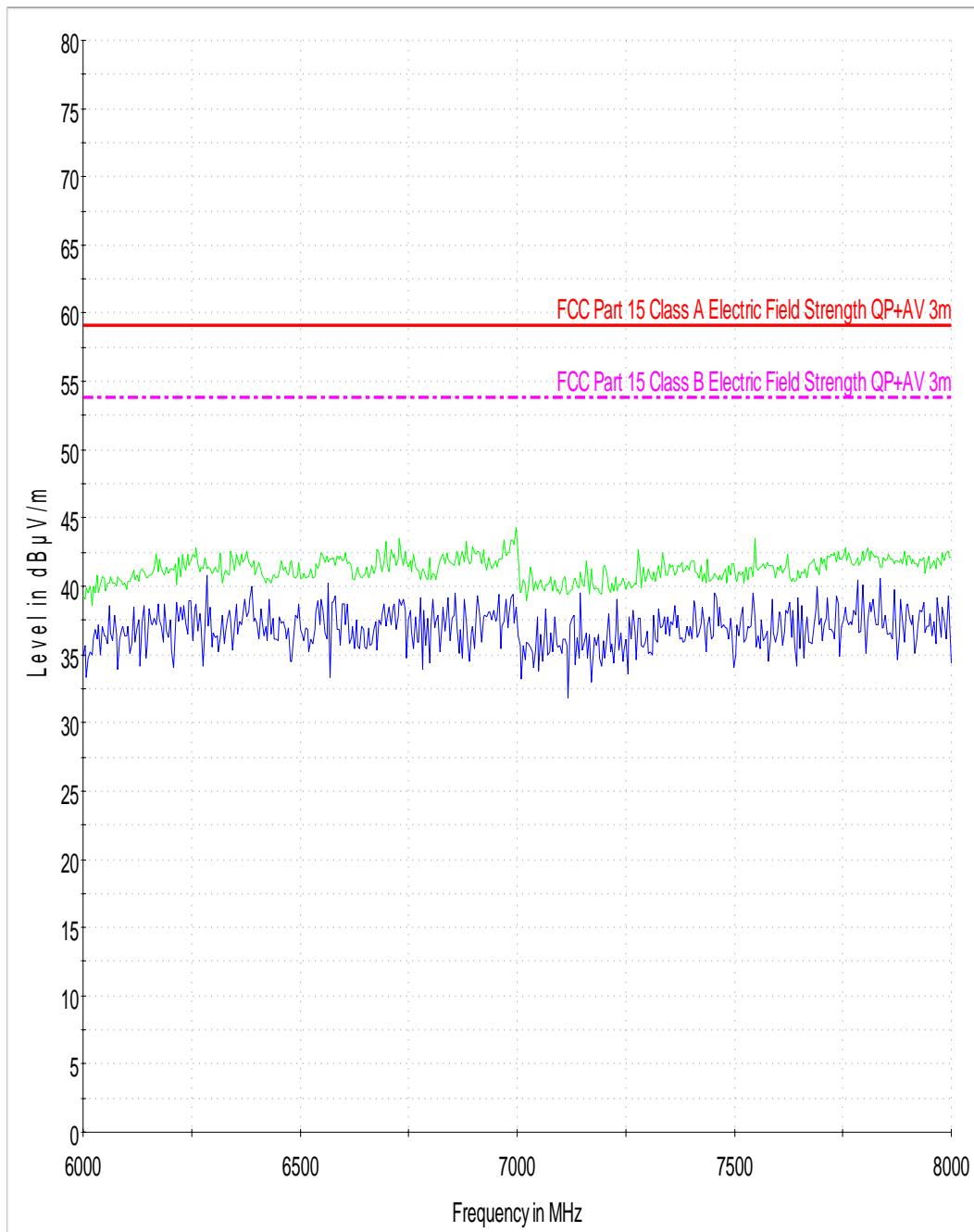
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To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\008
Radiated Emissions Pre-Scan
(4000.0 MHz to 6000.0 MHz) - GSM 850 MHz Idle (Without Cradle + Charger)



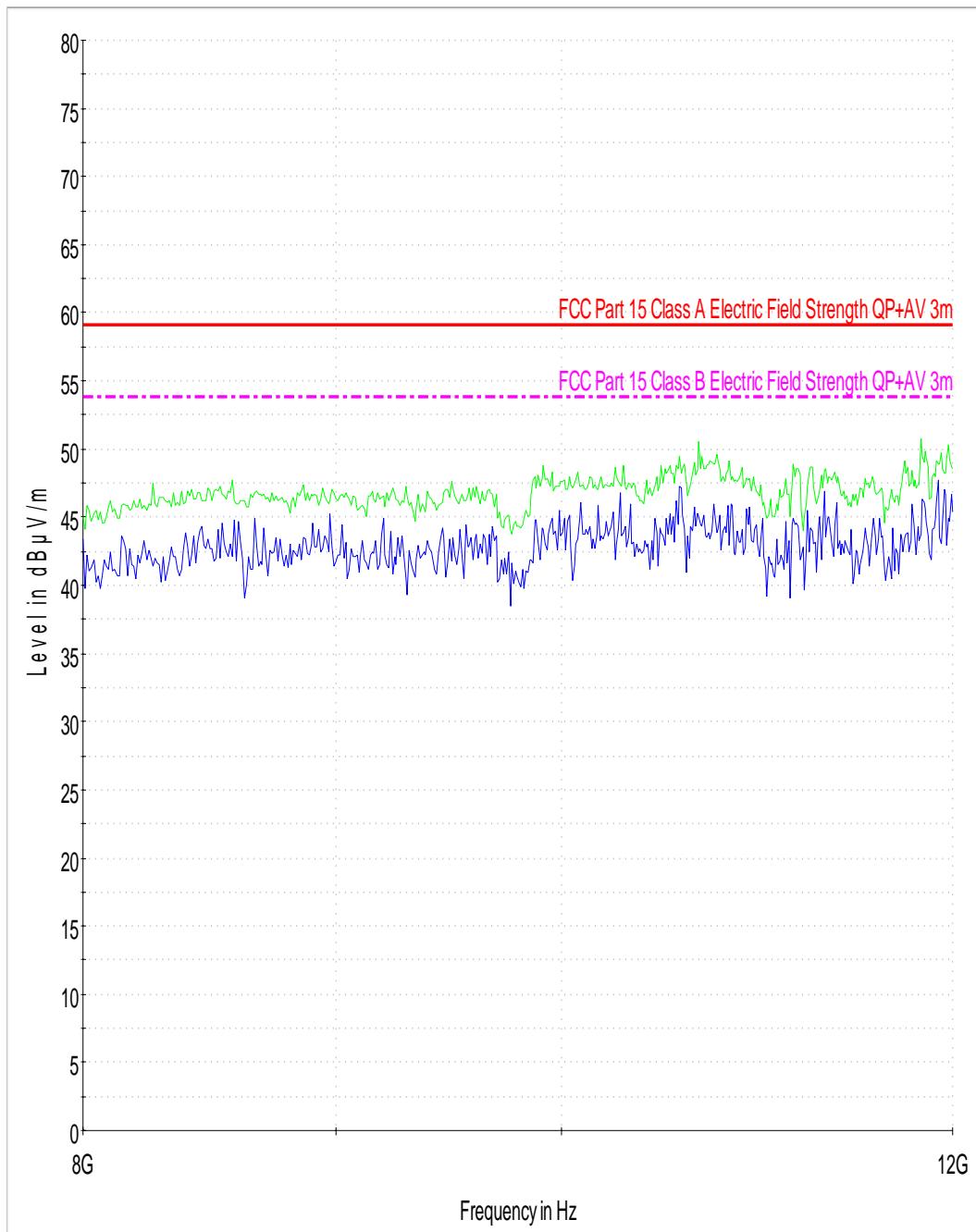
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Smart Active Tracker MTD2000
To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\009
Radiated Emissions Pre-Scan
(6000.0 MHz to 8000.0 MHz) - GSM 850 MHz Idle (Without Cradle + Charger)



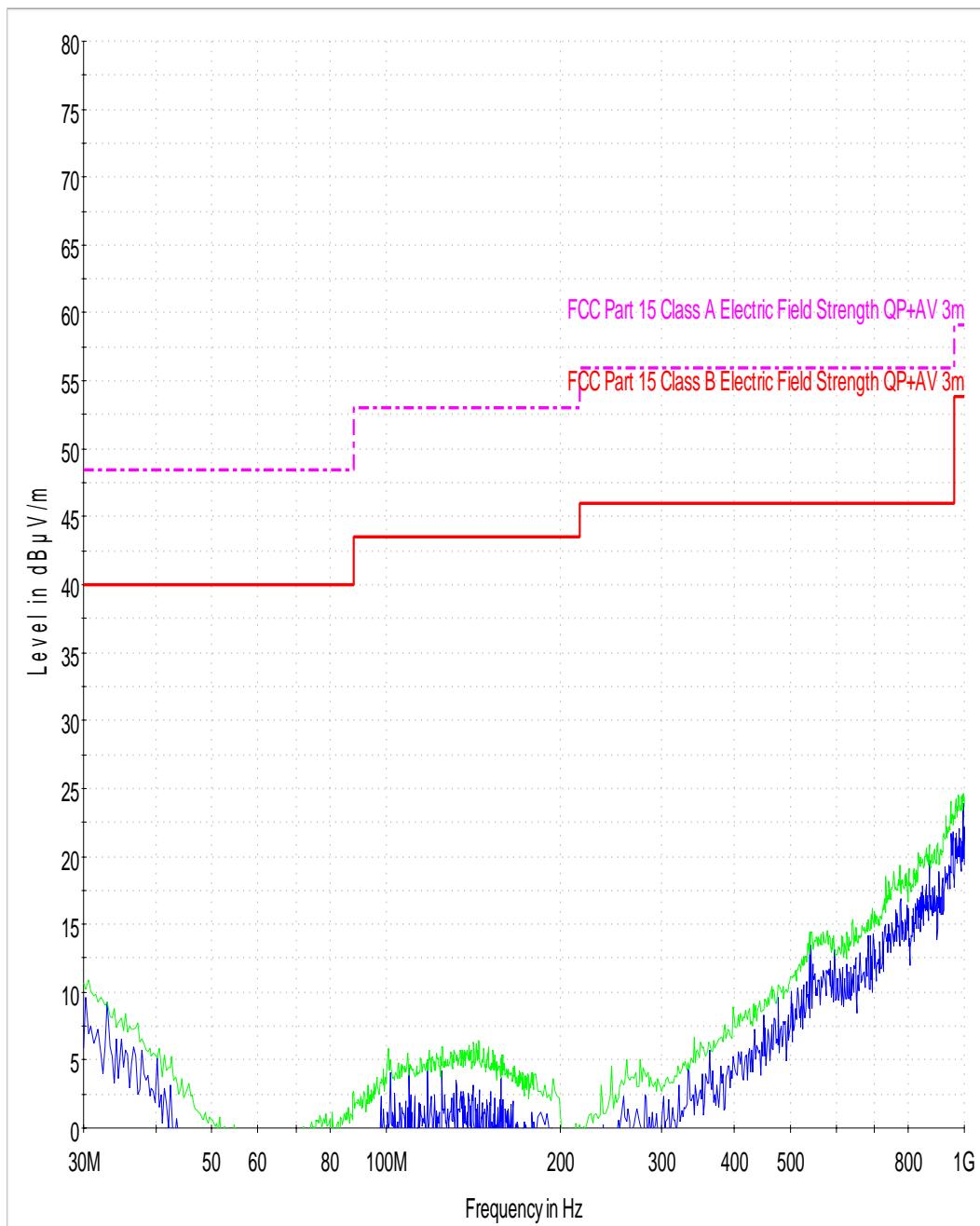
Test Of: Pro Tech Monitoring inc.
Smart Active Tracker MTD2000
To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\010
Radiated Emissions Pre-Scan
(8000.0 MHz to 12000.0 MHz) - GSM 850 MHz Idle (Without Cradle + Charger)



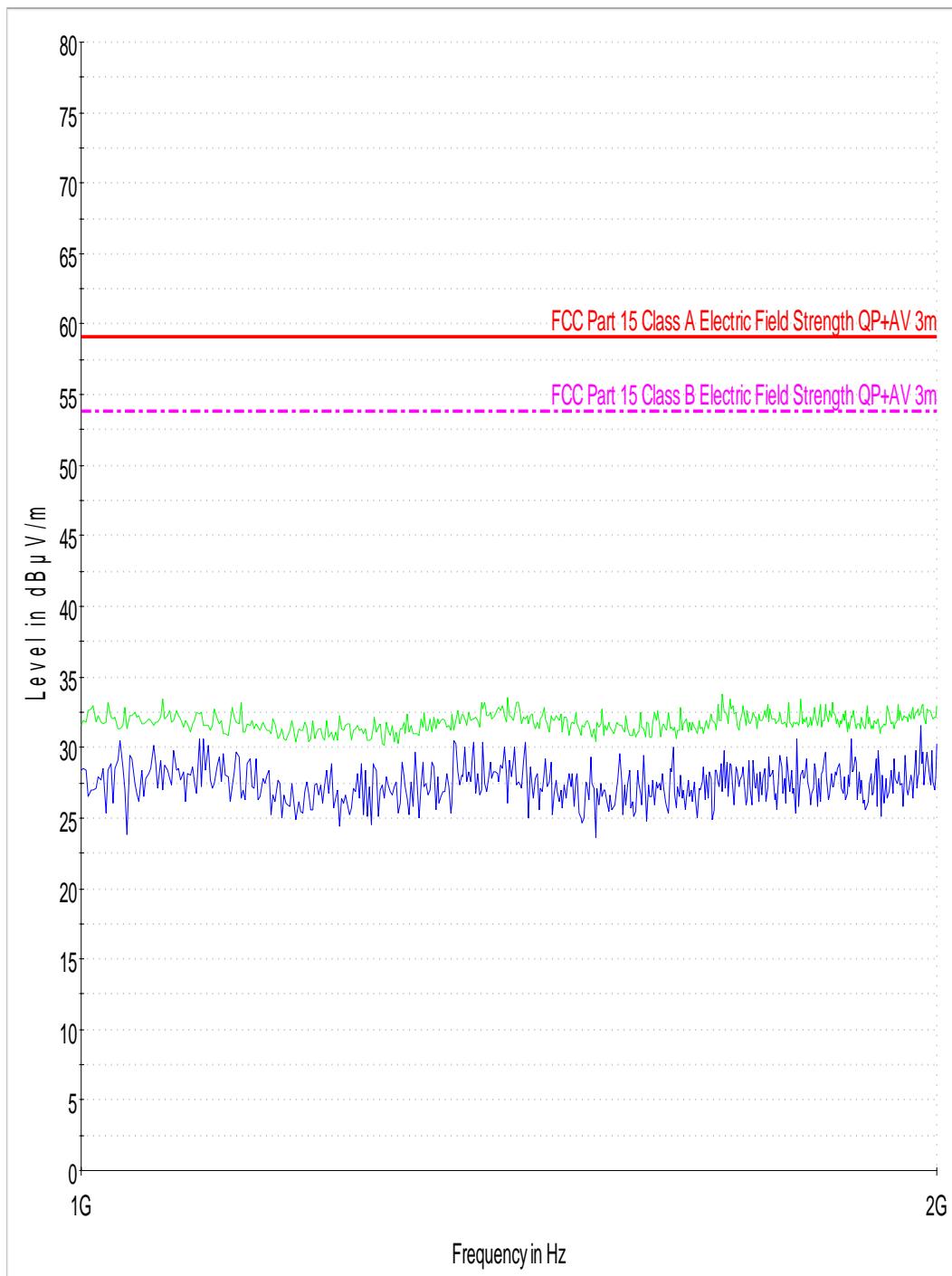
Test Of: Pro Tech Monitoring inc.
Smart Active Tracker MTD2000
To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\011
Radiated Emissions Pre-Scan
(30.0 MHz to 1000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)



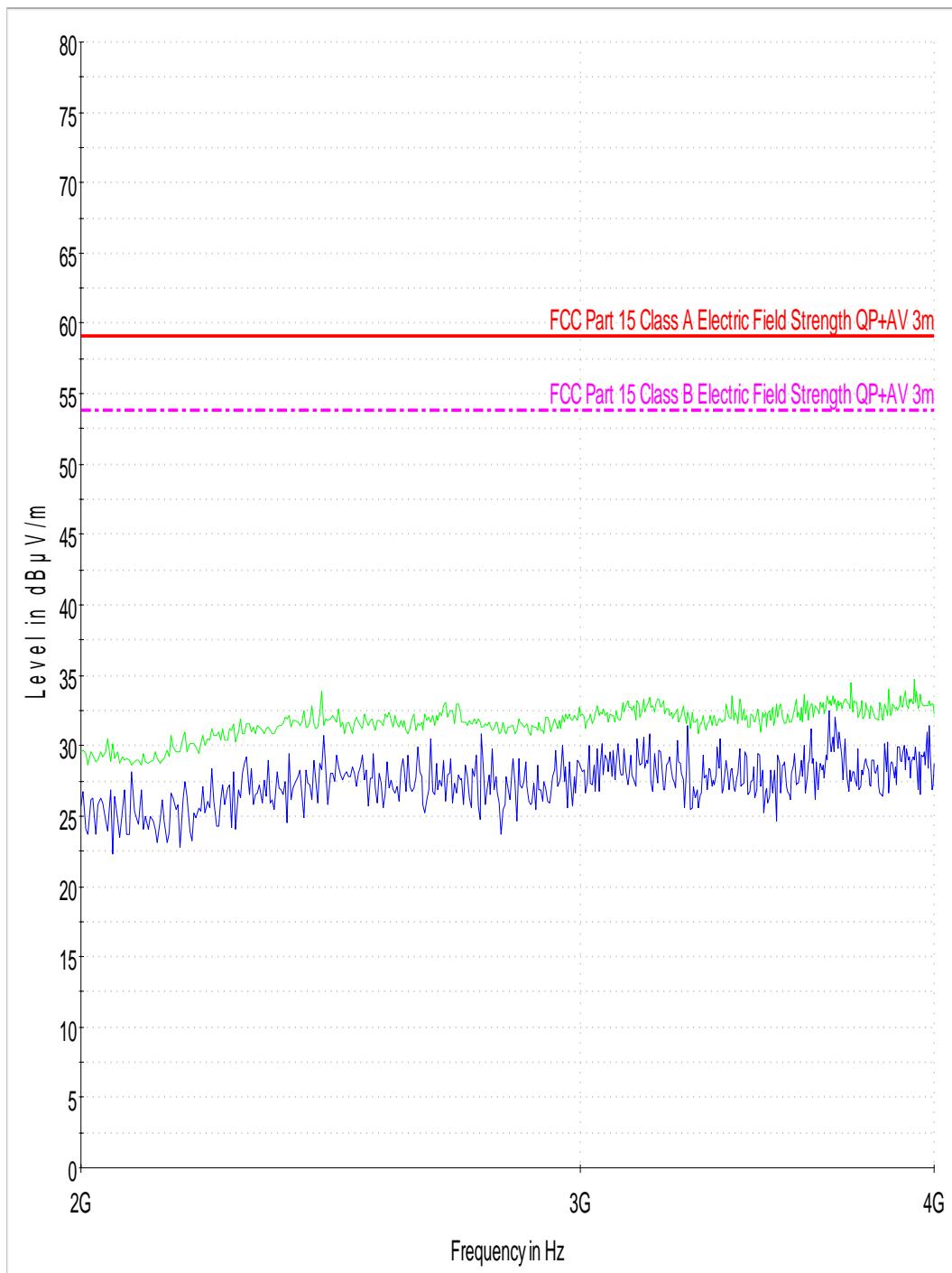
Test Of: Pro Tech Monitoring inc.
To: Smart Active Tracker MTD2000
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GPH\72155\012
Radiated Emissions Pre-Scan
(1000.0 MHz to 2000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)



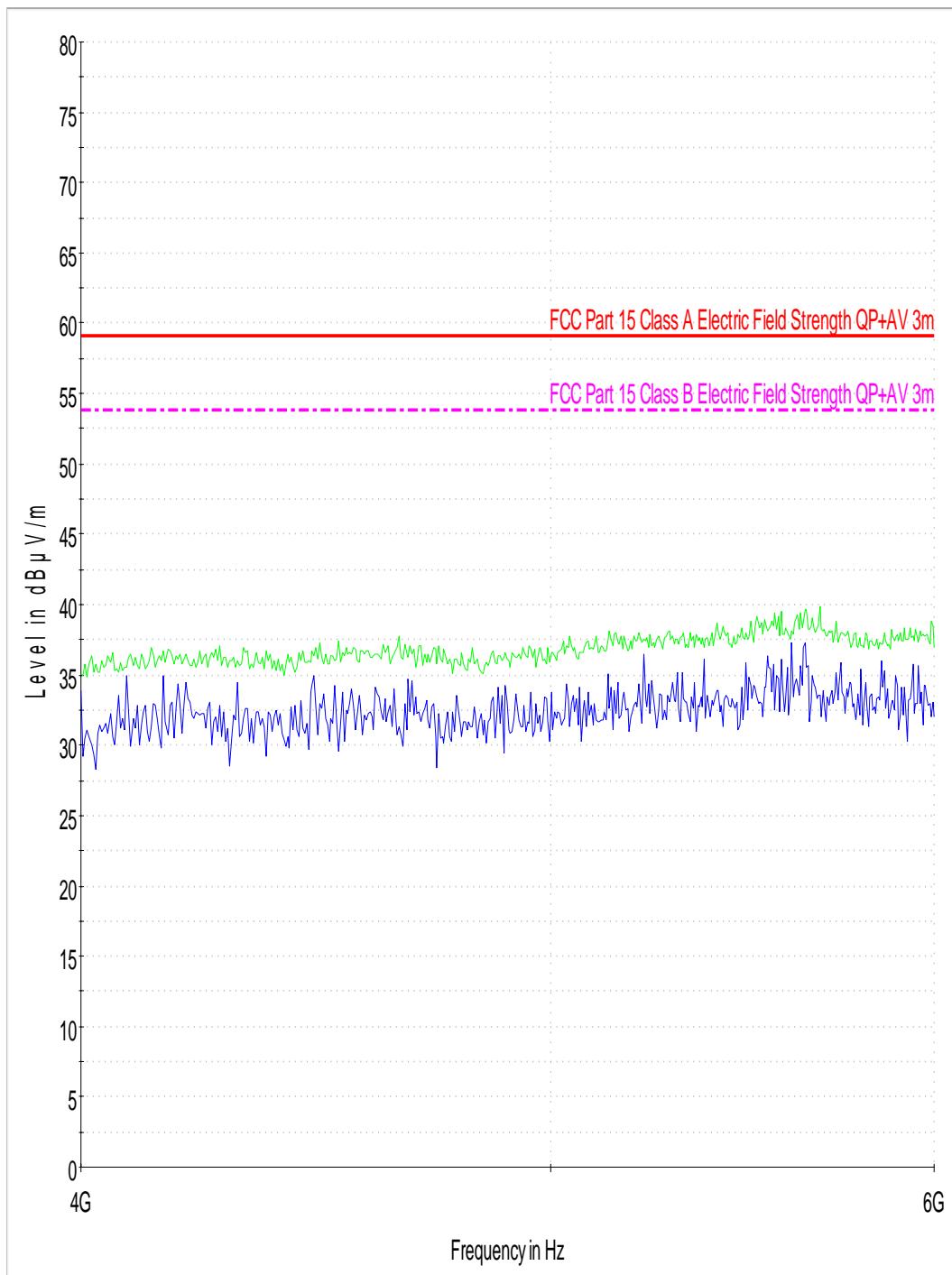
Test Of: Pro Tech Monitoring inc.
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To: Part 15 subpart B Clause 15.107/15.109

GPH\72155\013
Radiated Emissions Pre-Scan
(2000.0 MHz to 4000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)



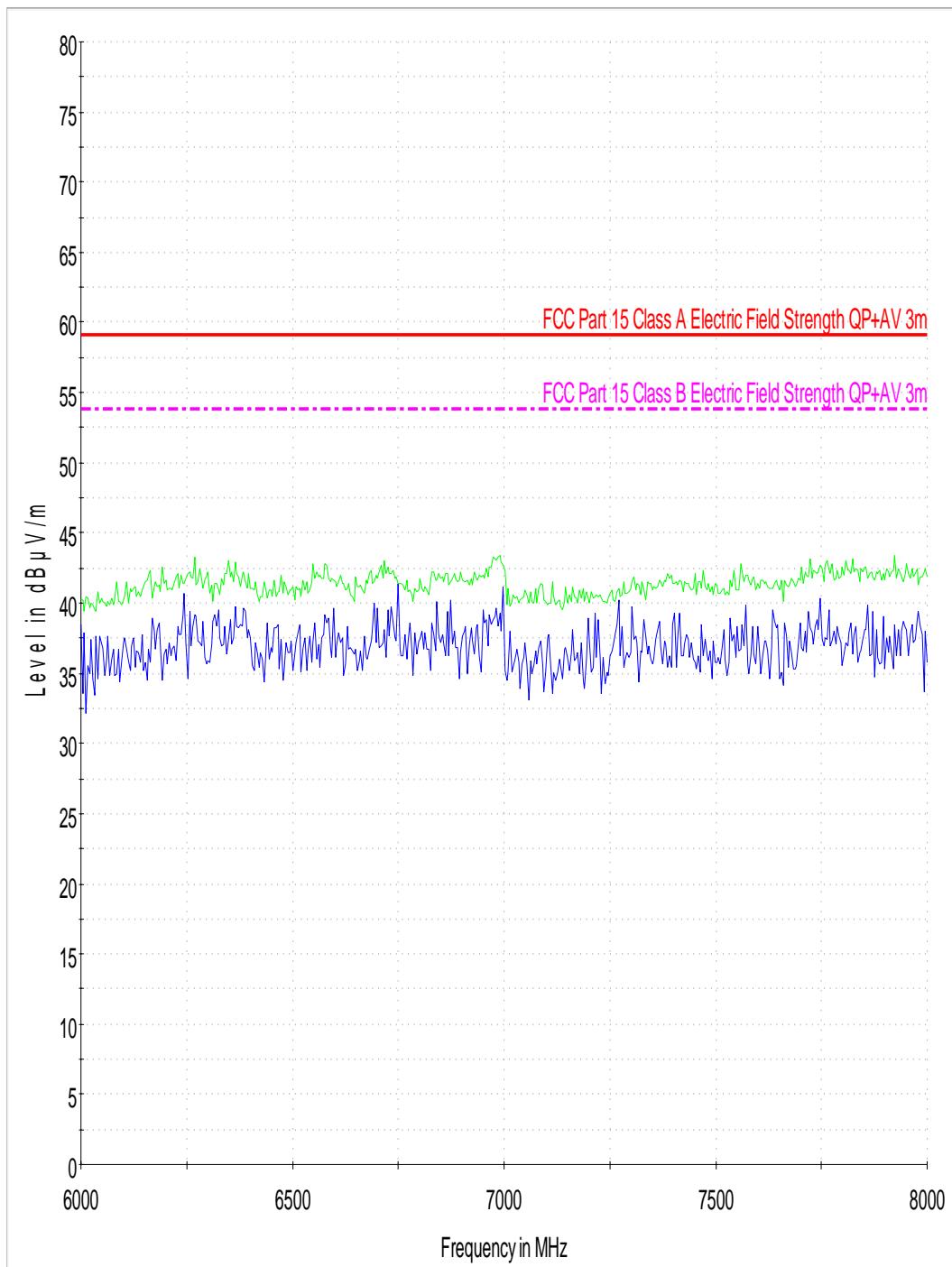
Test Of: Pro Tech Monitoring inc.
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GPH\72155\014
Radiated Emissions Pre-Scan
(4000.0 MHz to 6000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)



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Smart Active Tracker MTD2000
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GPH\72155\015
Radiated Emissions Pre-Scan
(6000.0 MHz to 8000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)



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Smart Active Tracker MTD2000
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GPH\72155\016
Radiated Emissions Pre-Scan
(8000.0 MHz to 12000.0 MHz) – GSM 850 MHz Idle (With Cradle + Charger)

