

SGS-CSTC Standards Technical Services Co., Ltd.

1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
Yishan Road, Xuhui District, Shanghai, China

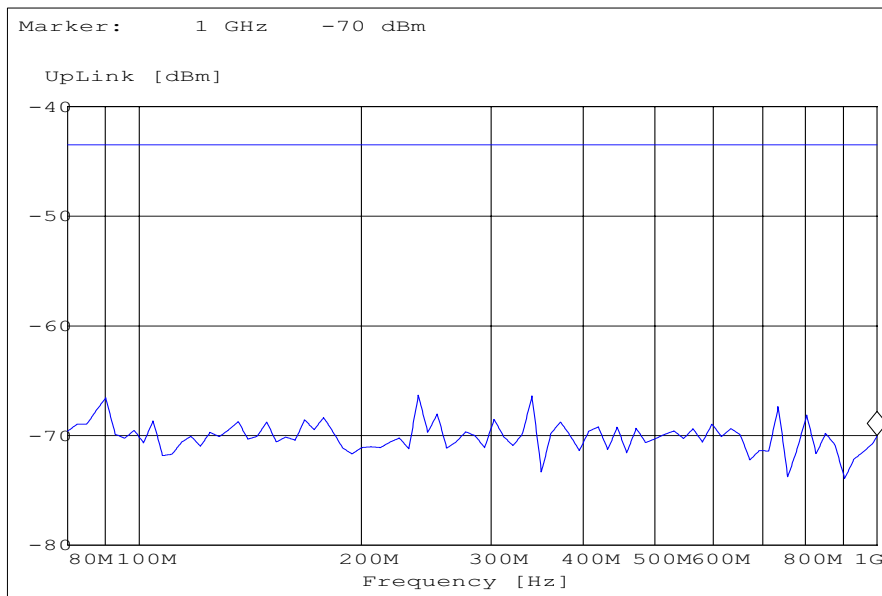
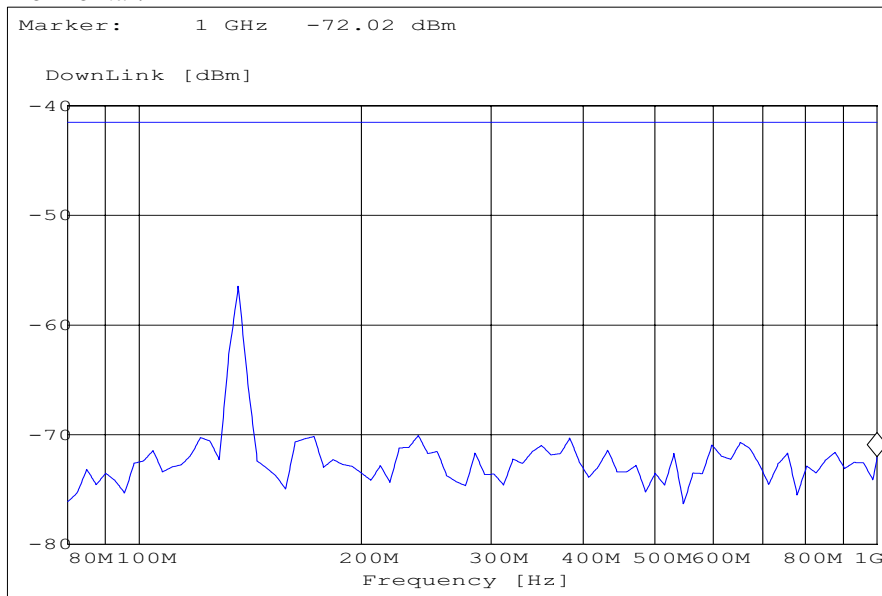
Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 101 of 209

Power Supply1:

GSM 850 charging with adaptor:

Horizontal:

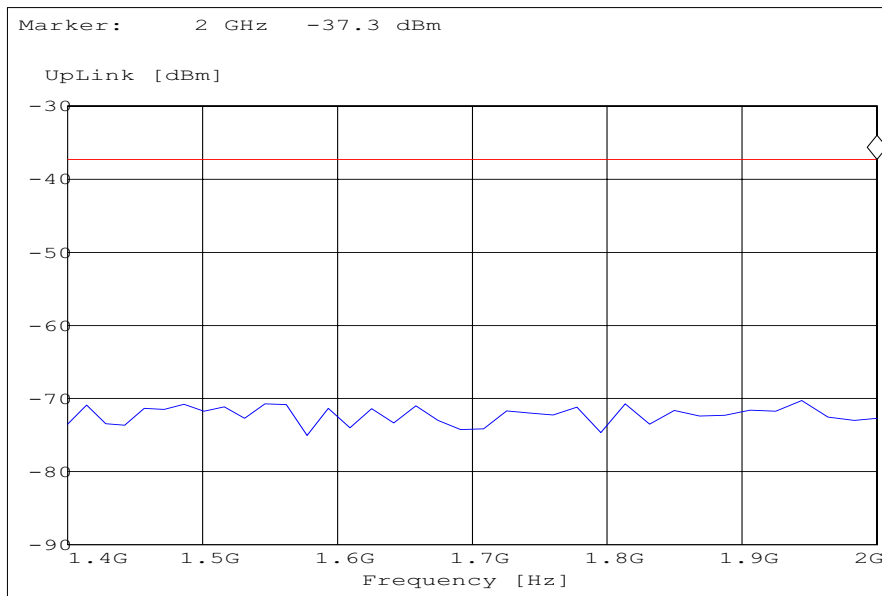
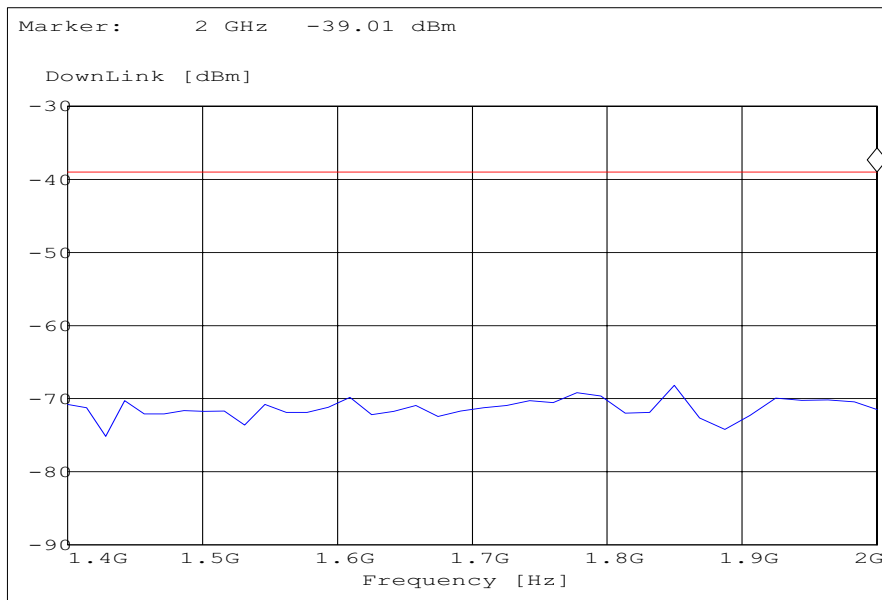


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Report No.: SHEMO051200623IT
Page 102 of 209



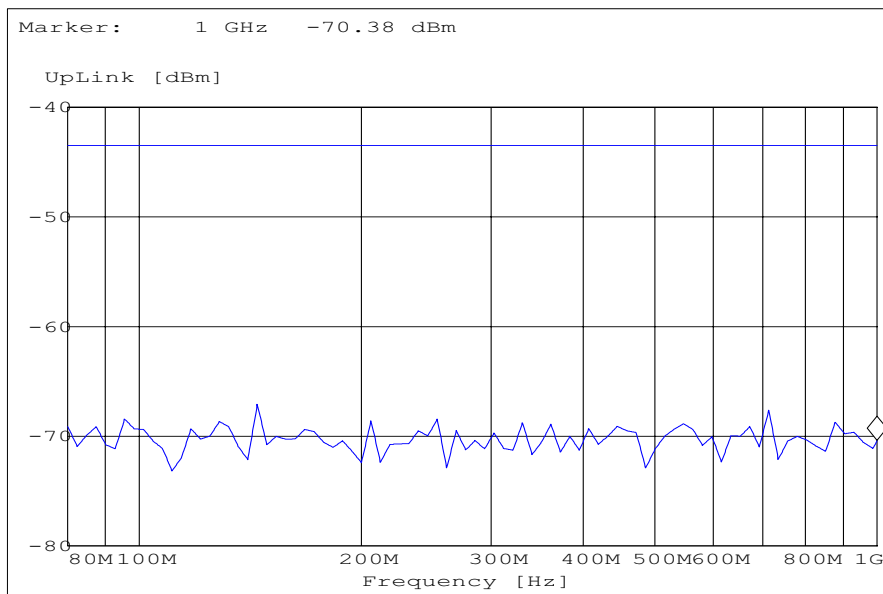
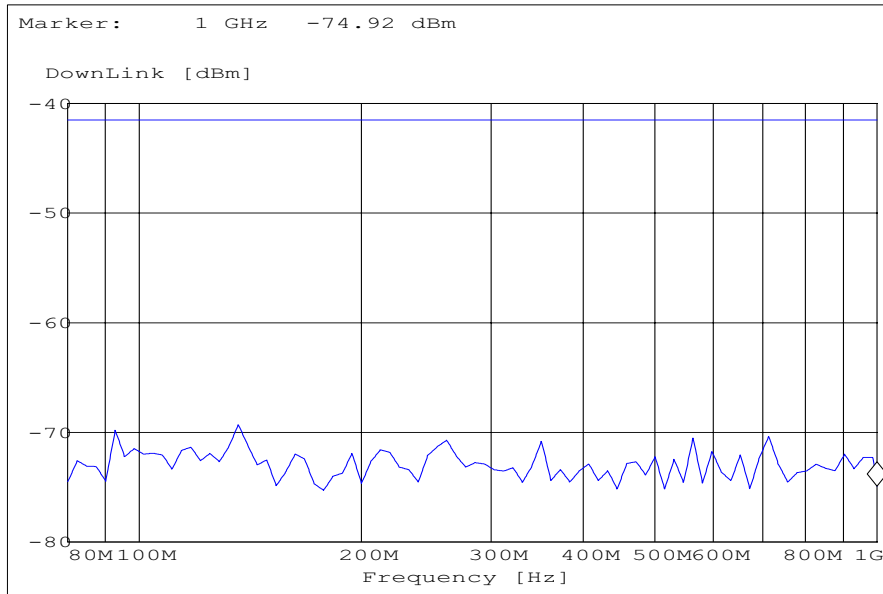
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Report No.: SHEMA051200623IT
Page 103 of 209

Vertical:

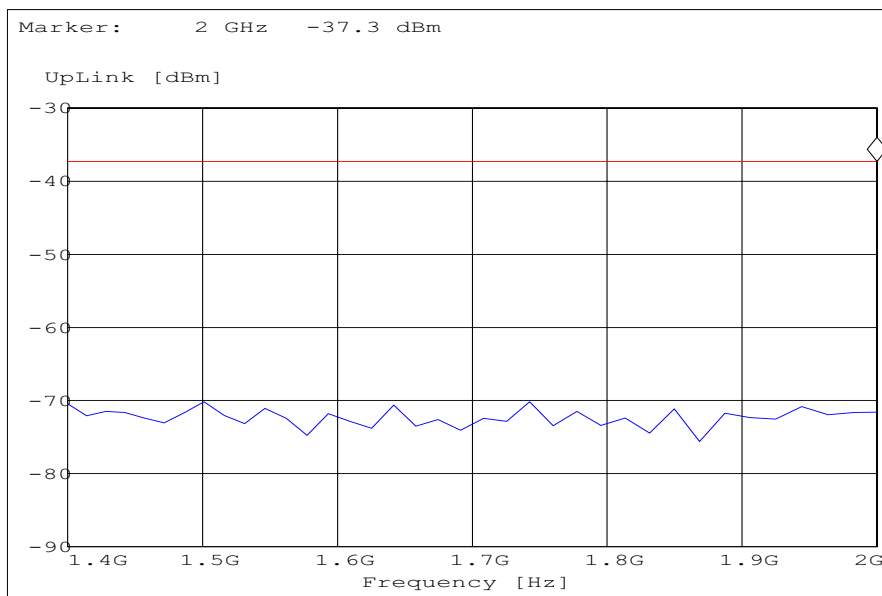
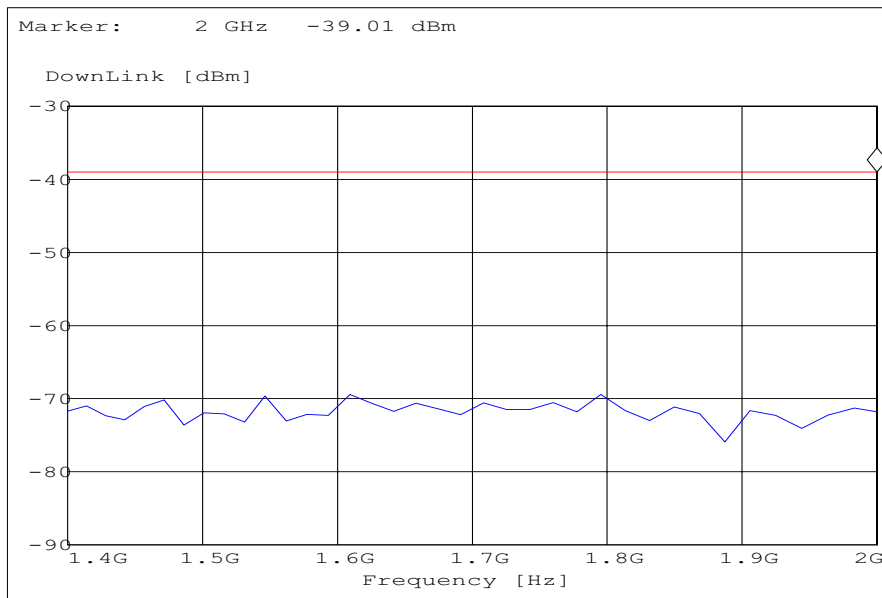


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Report No.: SHEMA051200623IT
Page 104 of 209



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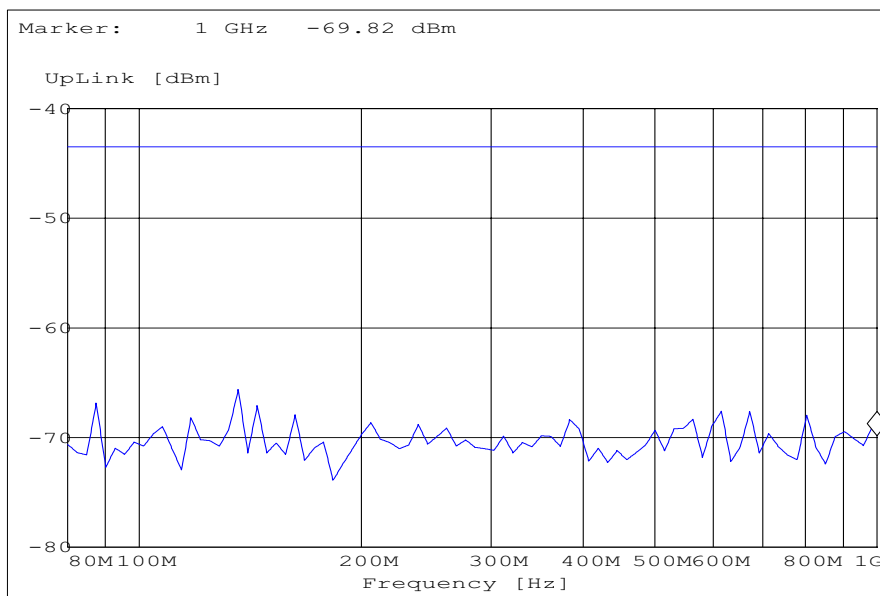
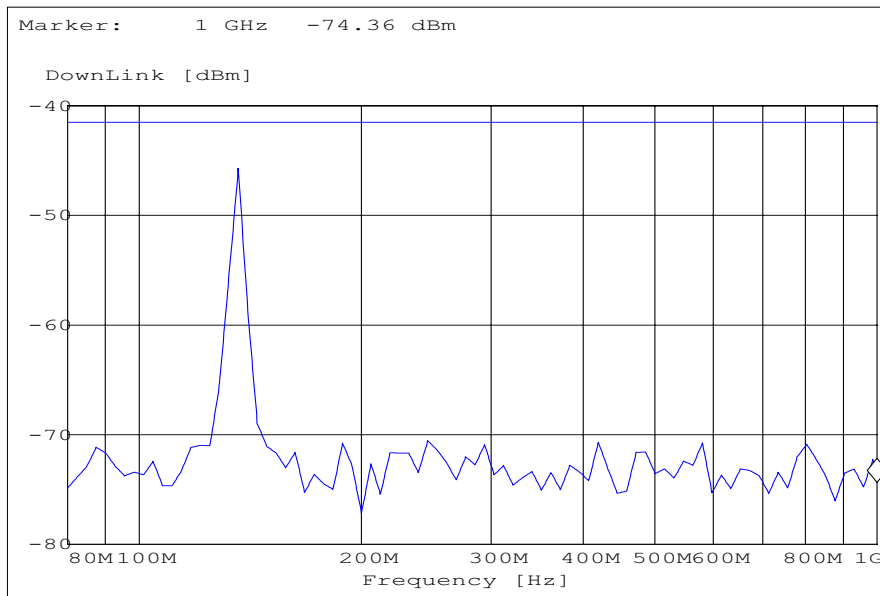
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Report No.: SHEMO051200623IT
Page 105 of 209

PCS 1900 charging with adaptor:

Horizontal:

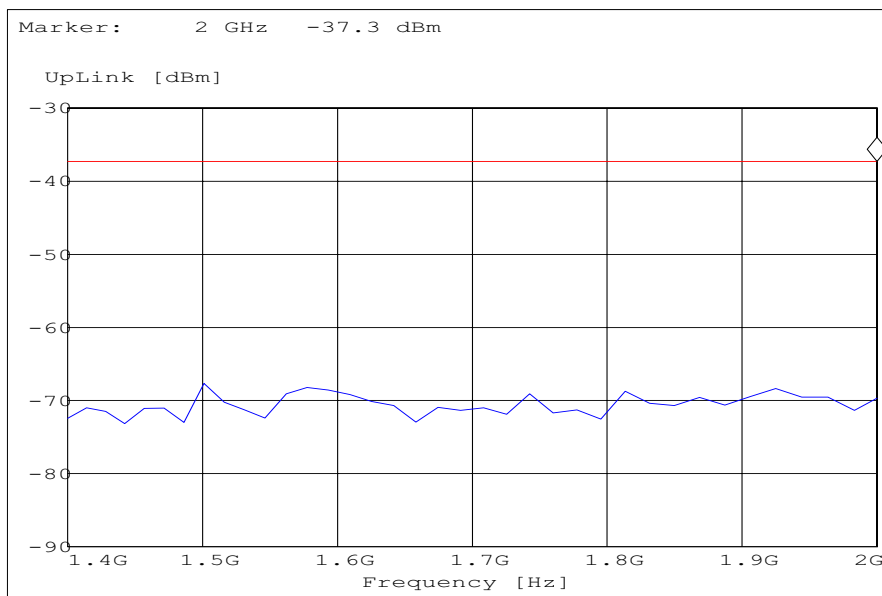
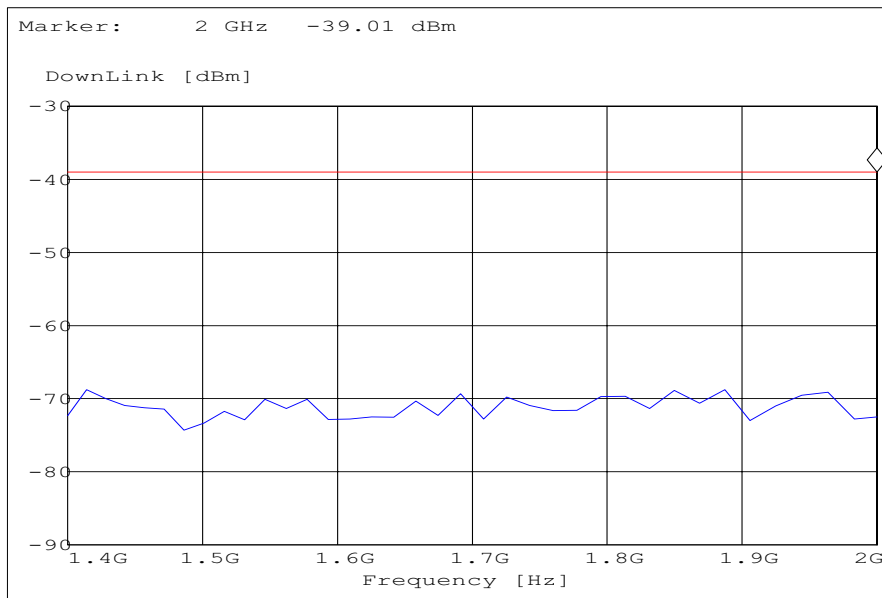


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Report No.: SHEMA051200623IT
Page 106 of 209



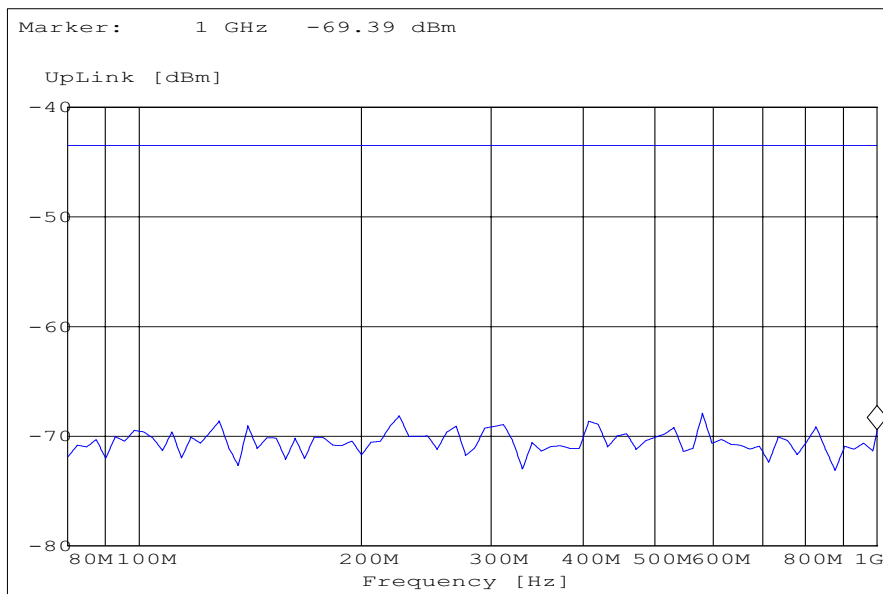
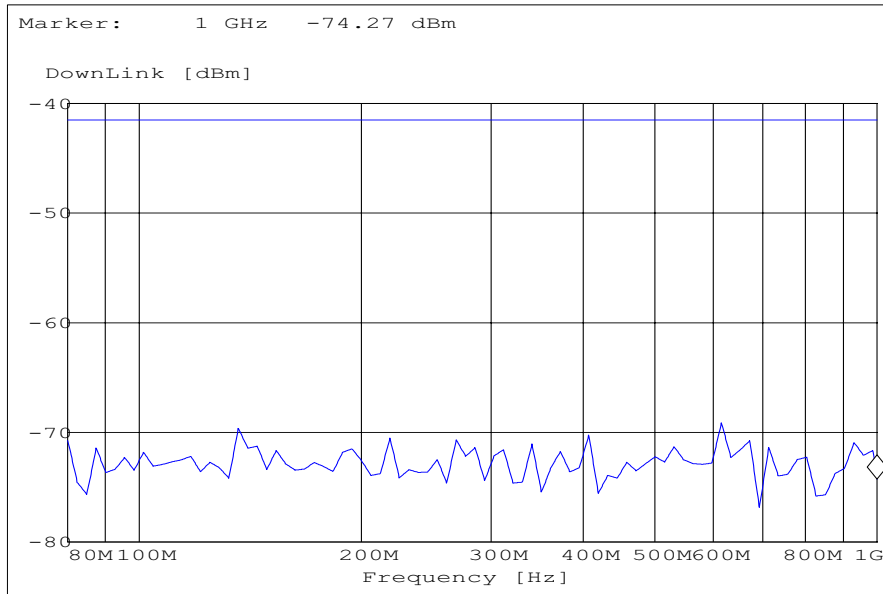
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Report No.: SHEMA0051200623IT
Page 107 of 209

Vertical:

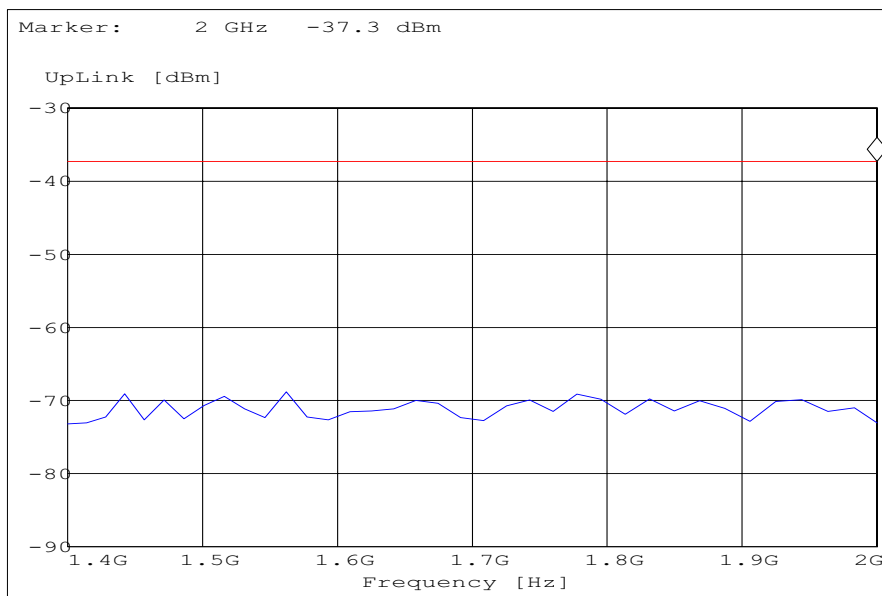
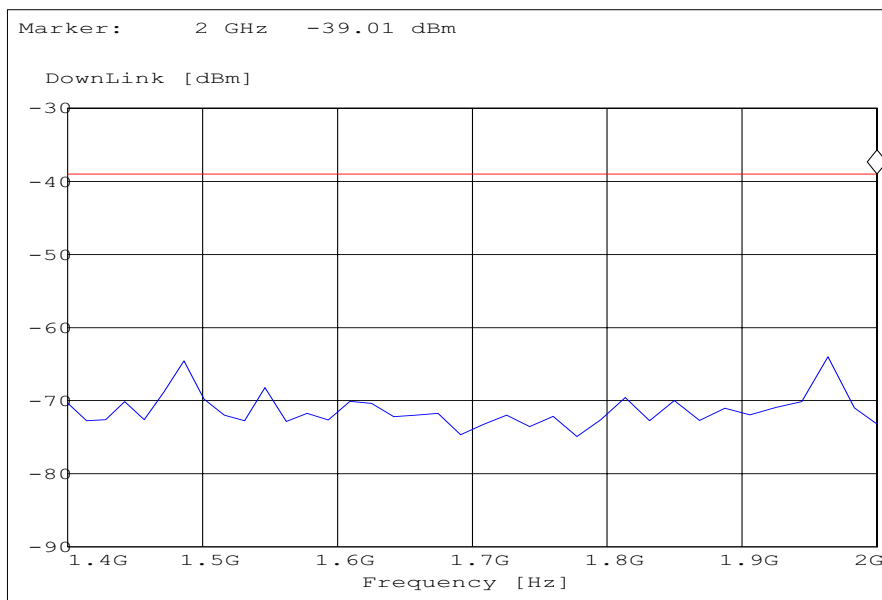


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Report No.: SHEMA0051200623IT
Page 108 of 209



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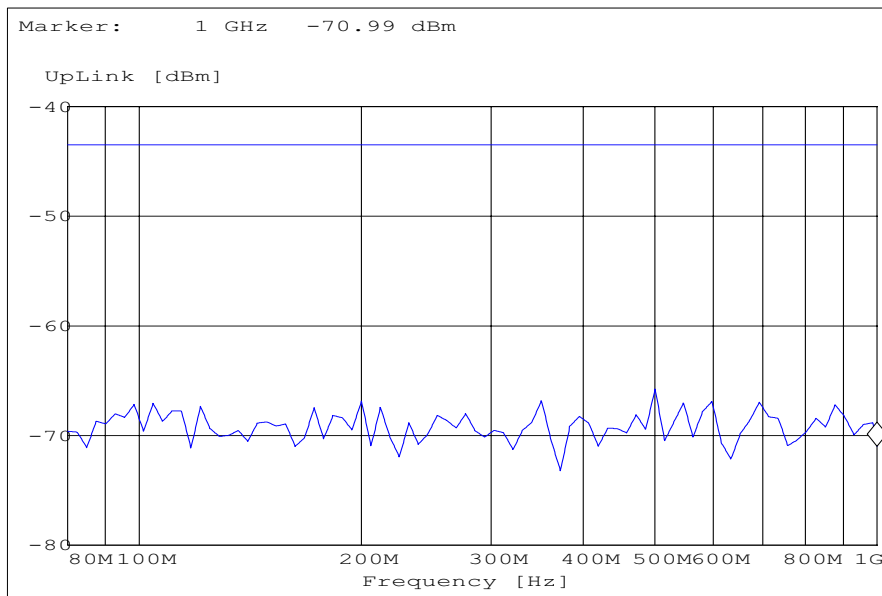
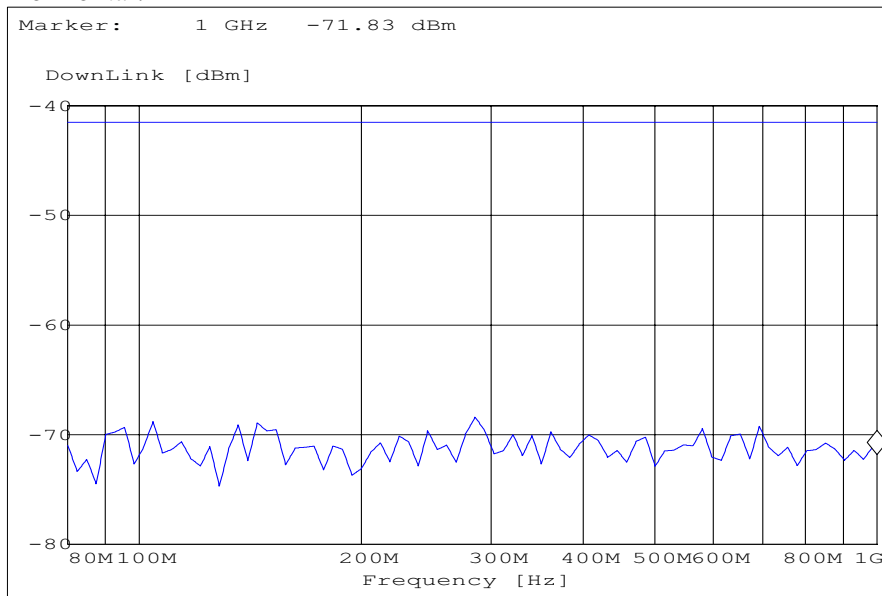
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Report No.: SHEMO051200623IT
Page 109 of 209

Power Supply2:

GSM 850 charging with adaptor:

Horizontal:

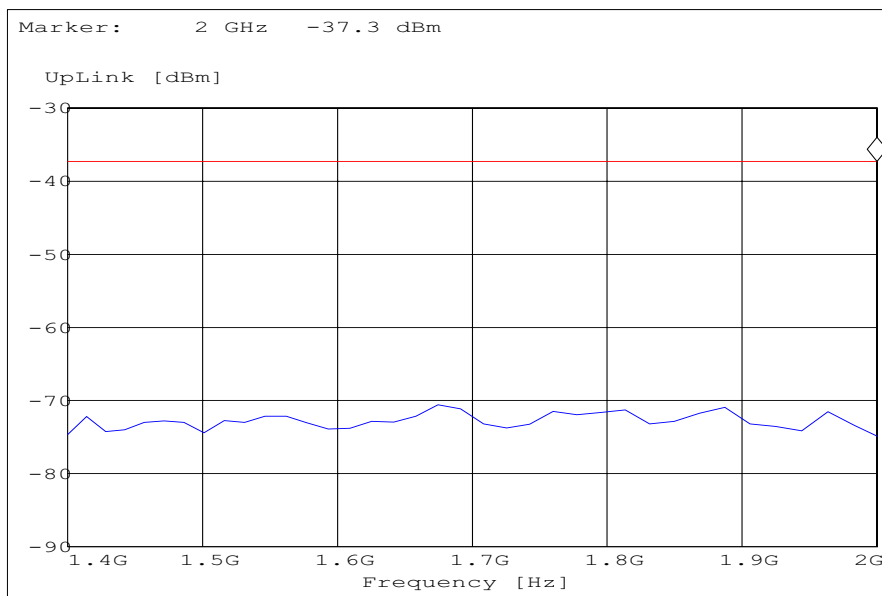
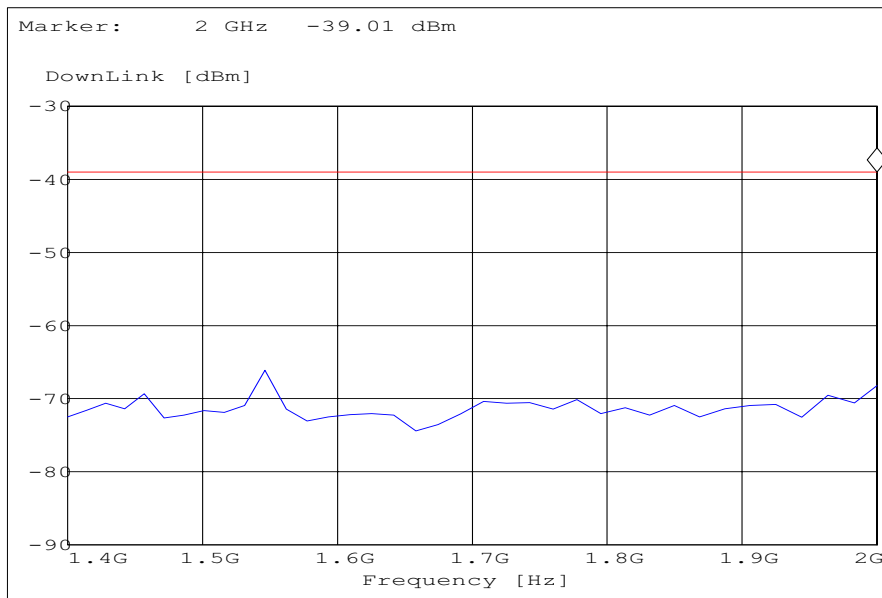


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Report No.: SHEMO051200623IT
Page 110 of 209



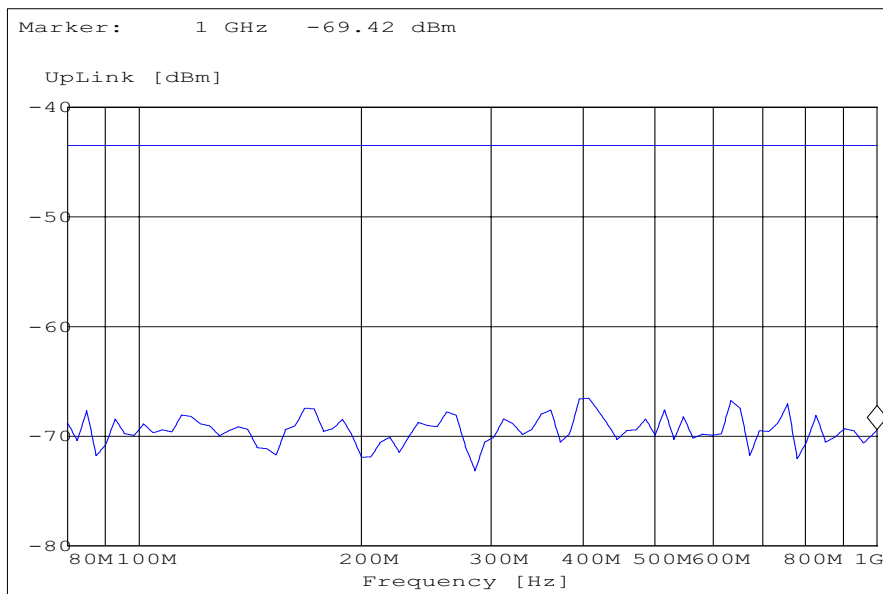
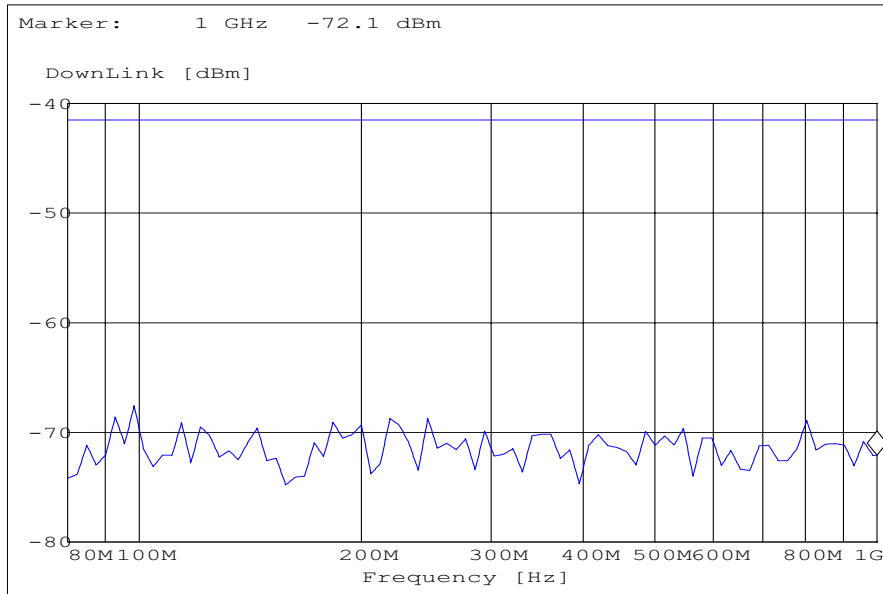
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Report No.: SHEMA051200623IT
Page 111 of 209

Vertical:



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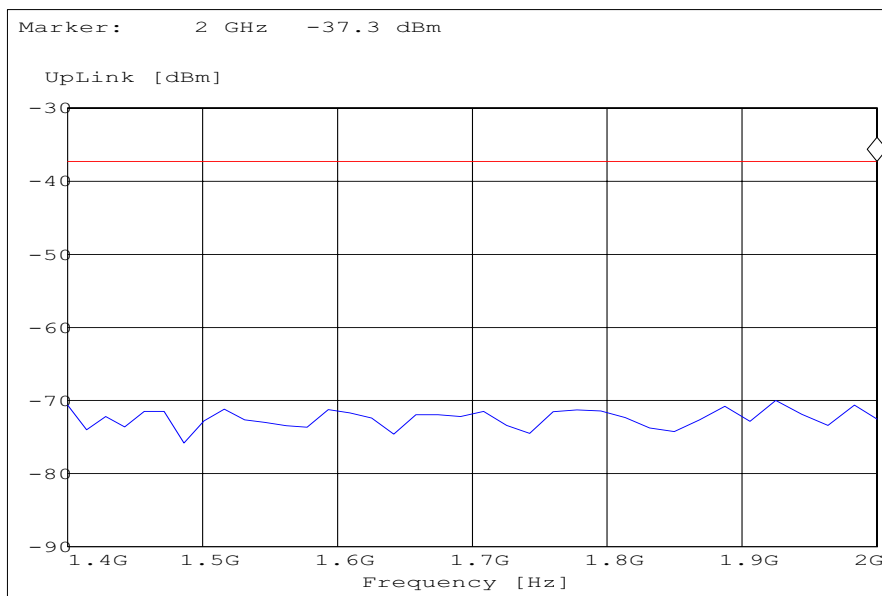
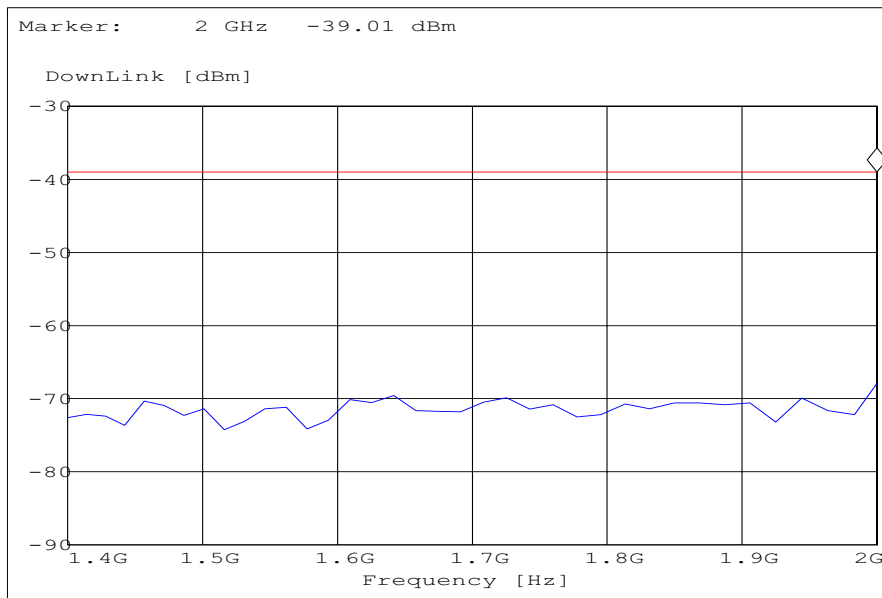
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Report No.: SHEMA0051200623IT

Page 112 of 209



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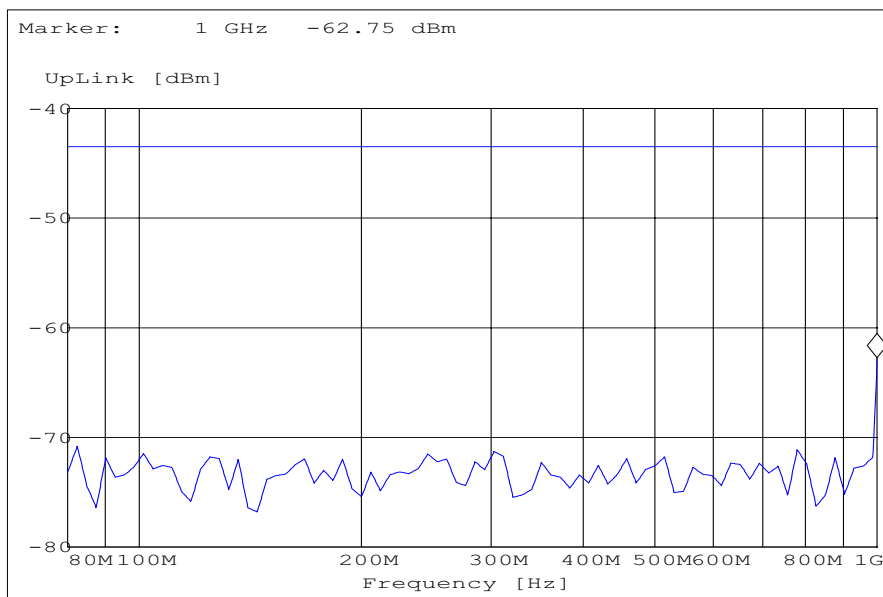
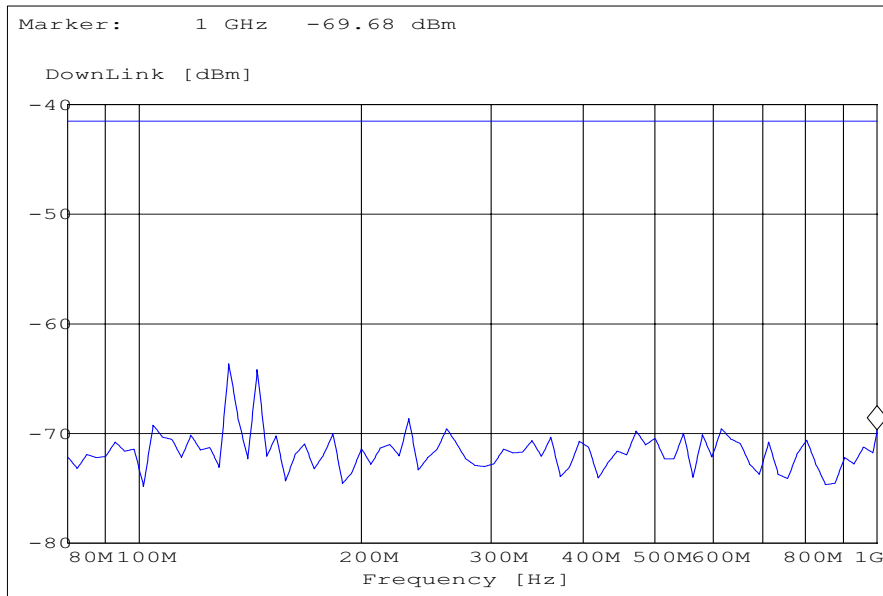
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Report No.: SHEMO051200623IT
Page 113 of 209

PCS 1900 charging with adaptor:

Horizontal:

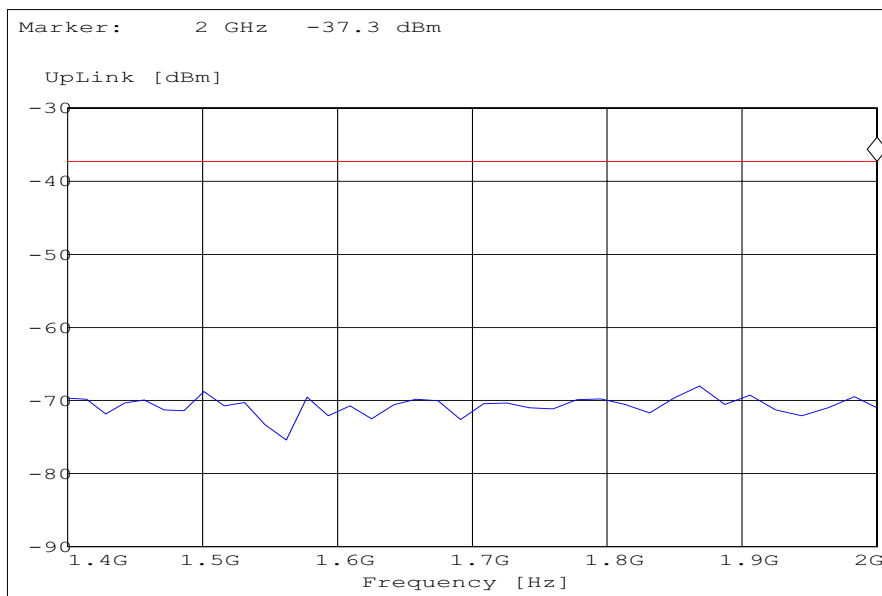
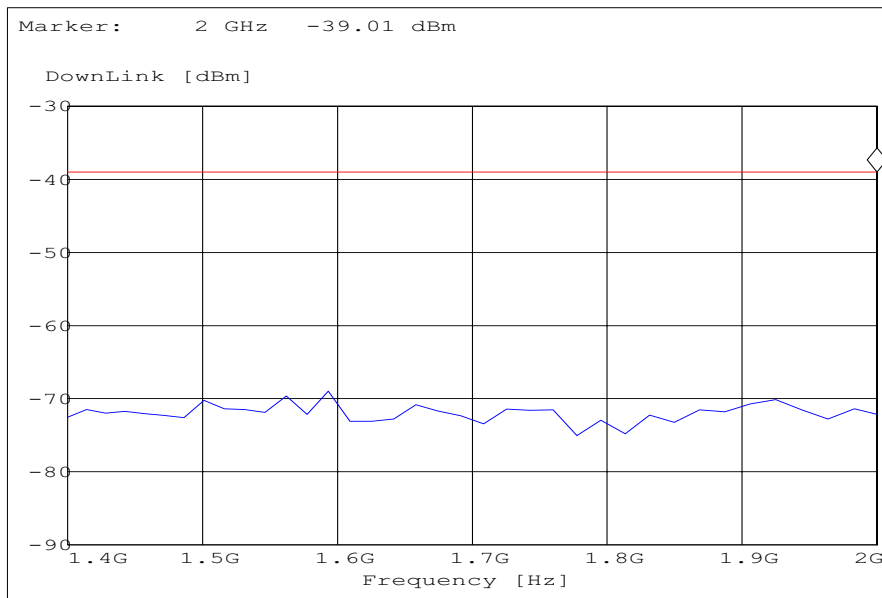


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Report No.: SHEMO051200623IT
Page 114 of 209



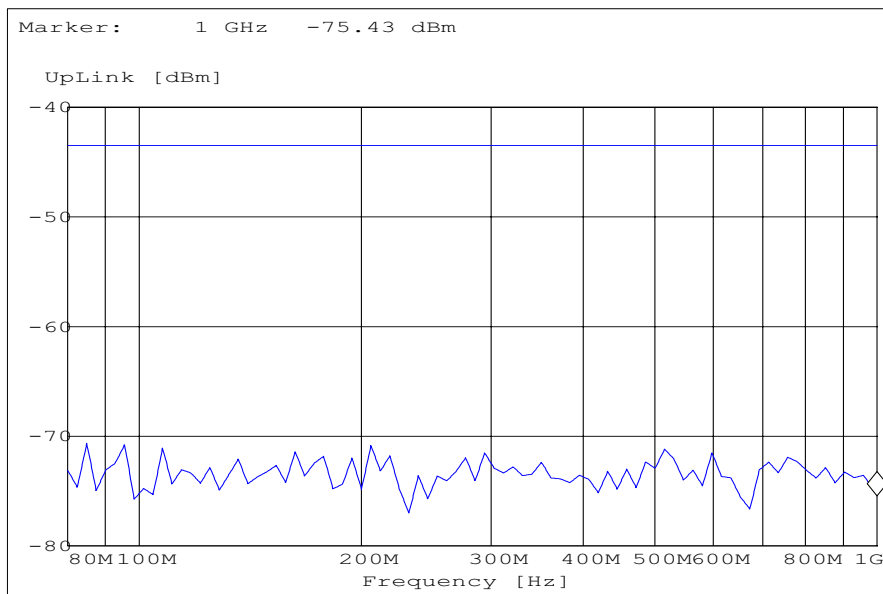
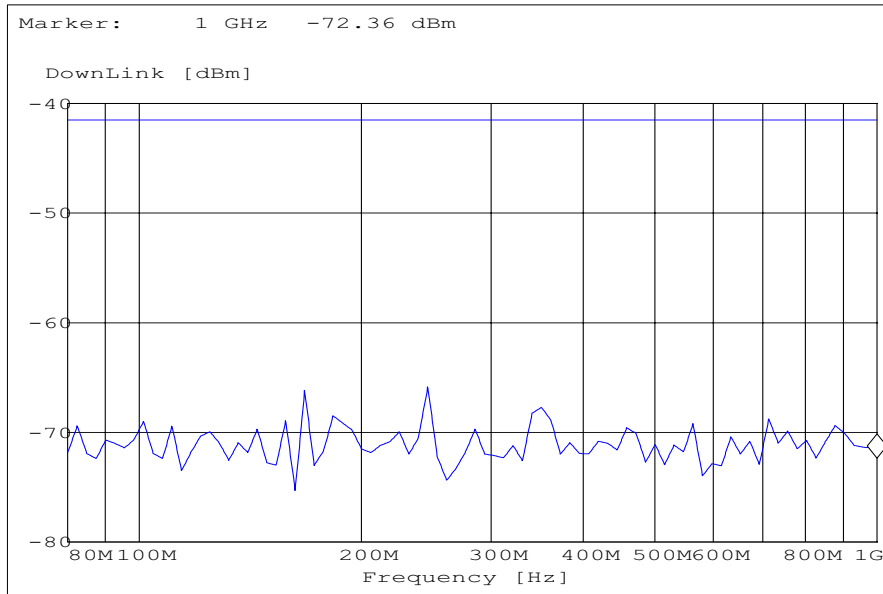
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Report No.: SHEMA051200623IT
Page 115 of 209

Vertical:

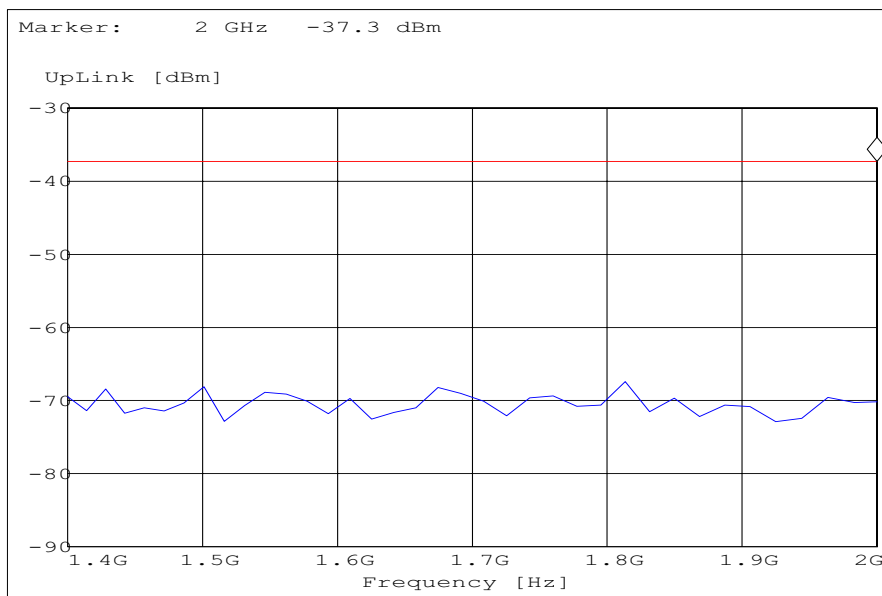
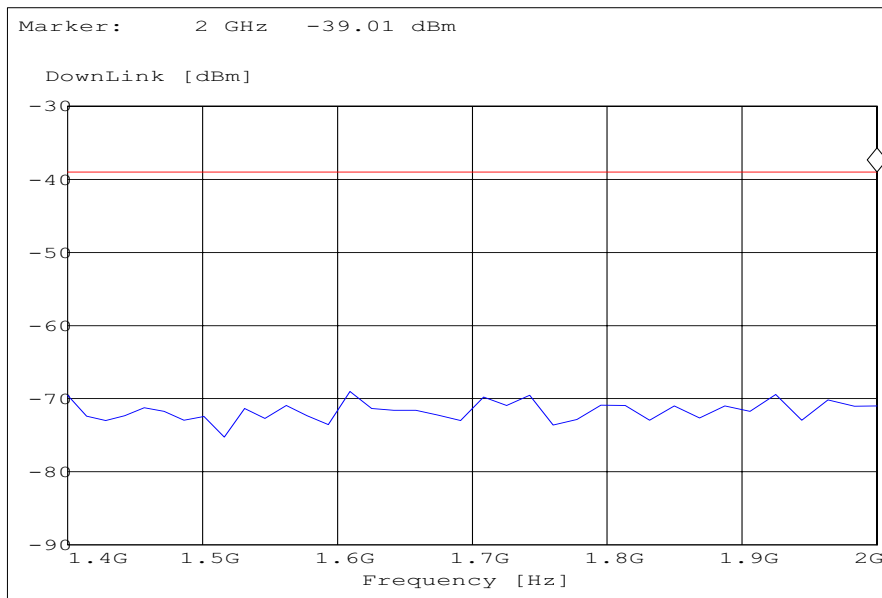


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Report No.: SHEMO051200623IT
Page 116 of 209



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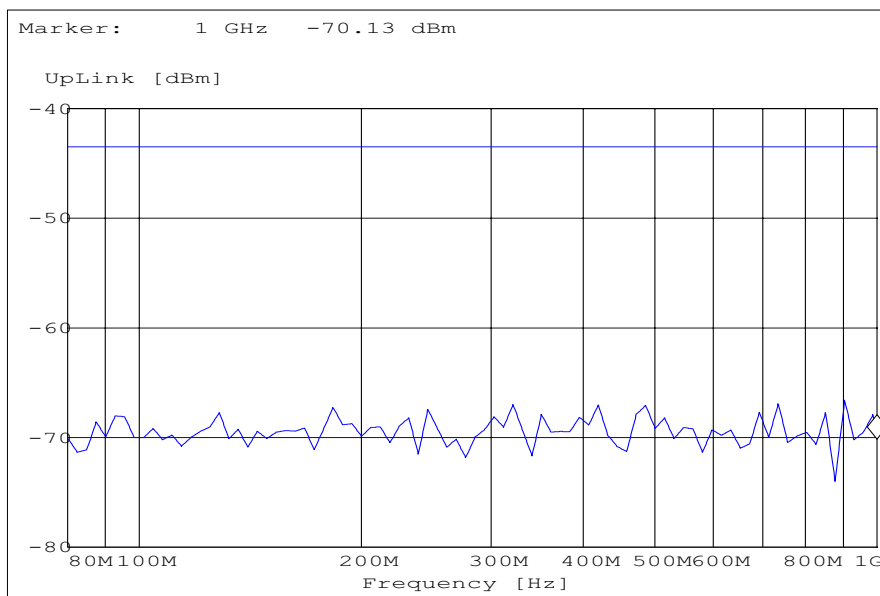
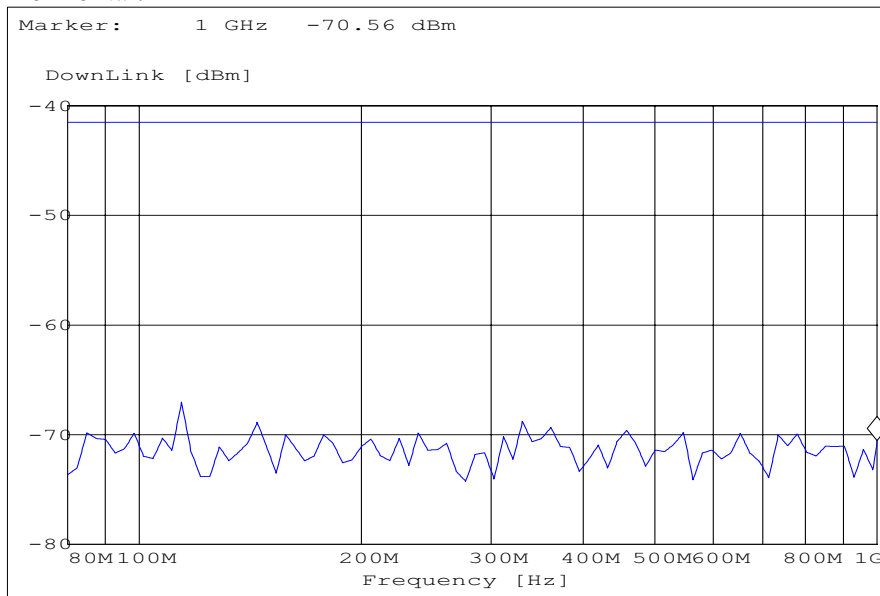
Telephone: +86 (0) 21 6495 1616
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Report No.: SHEMO051200623IT
Page 117 of 209

Power Supply3:

GSM 850 charging with adaptor:

Horizontal:



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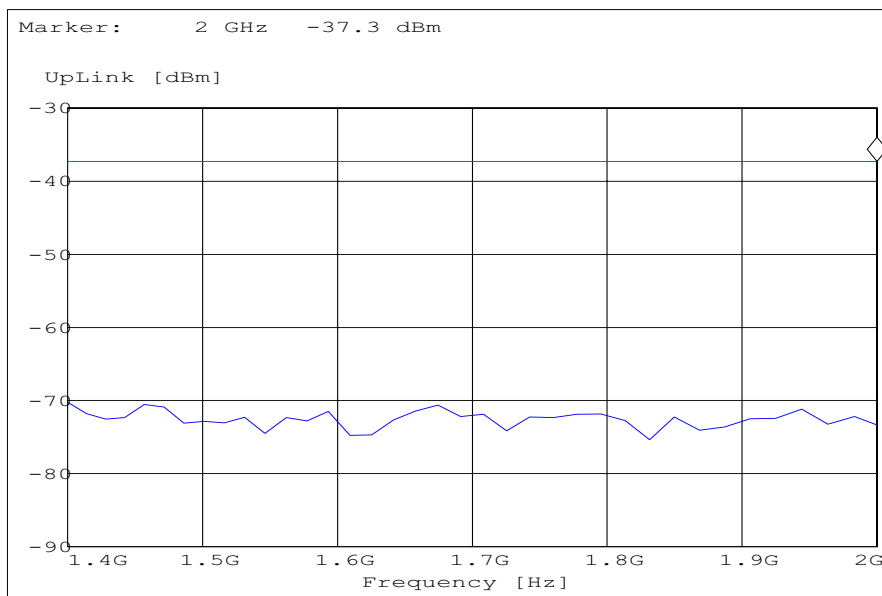
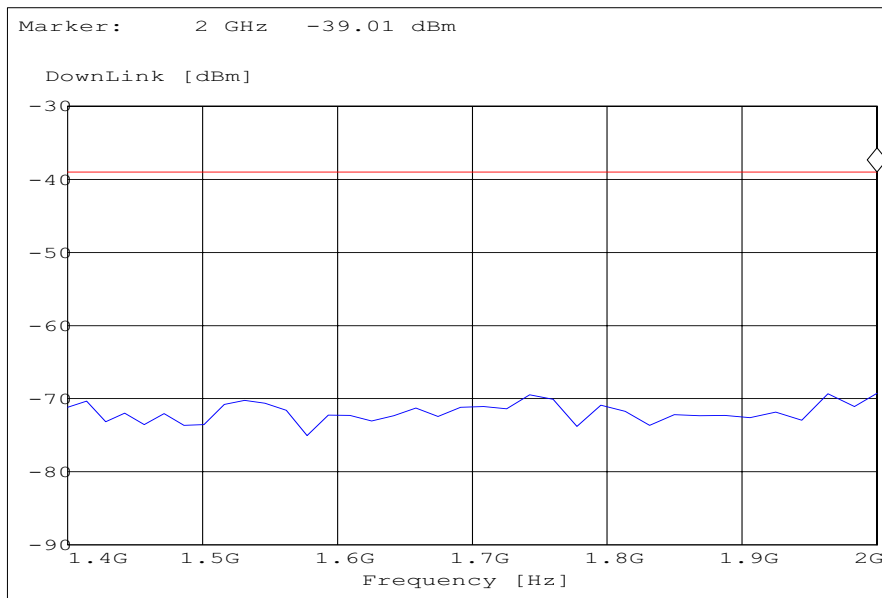
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Report No.: SHEMO051200623IT

Page 118 of 209



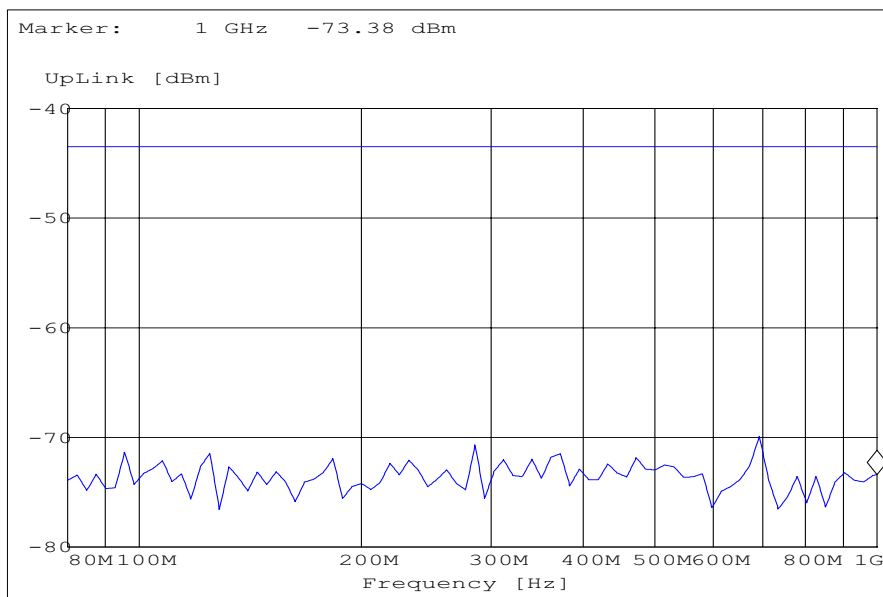
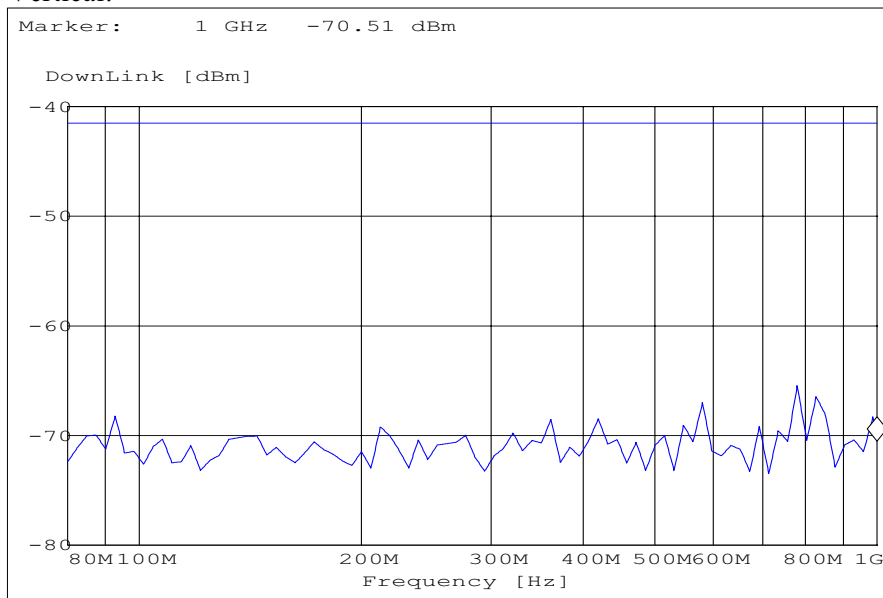
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Report No.: SHEMO051200623IT
Page 119 of 209

Vertical:

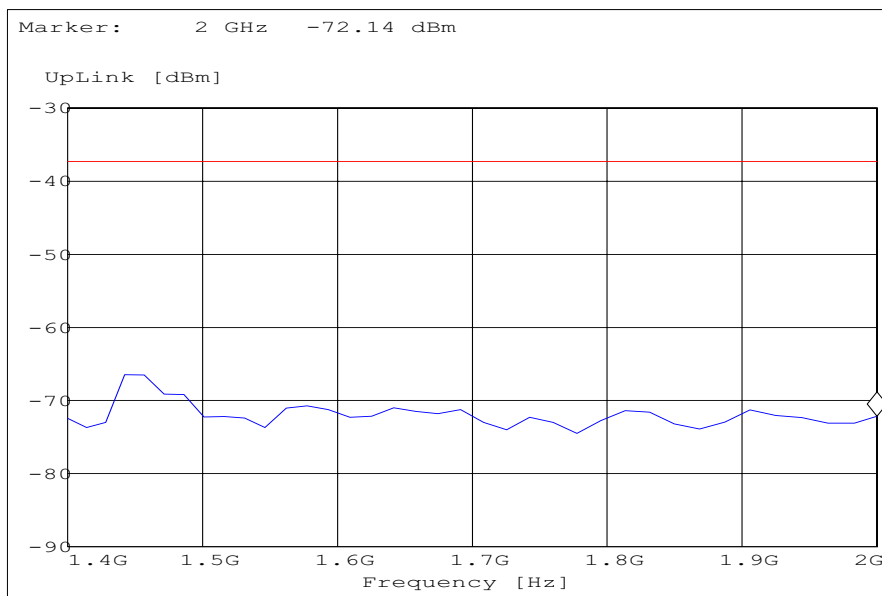
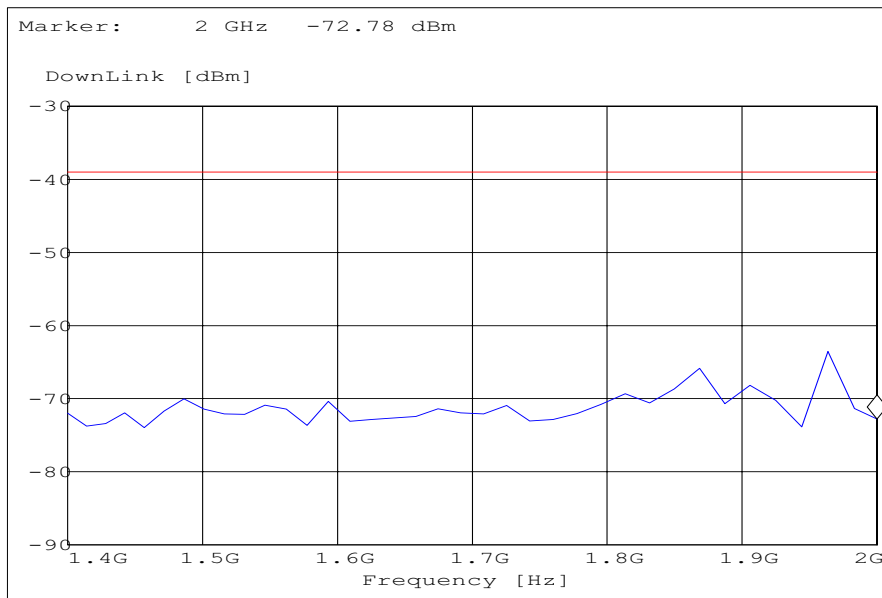


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Report No.: SHEMA0051200623IT
Page 120 of 209



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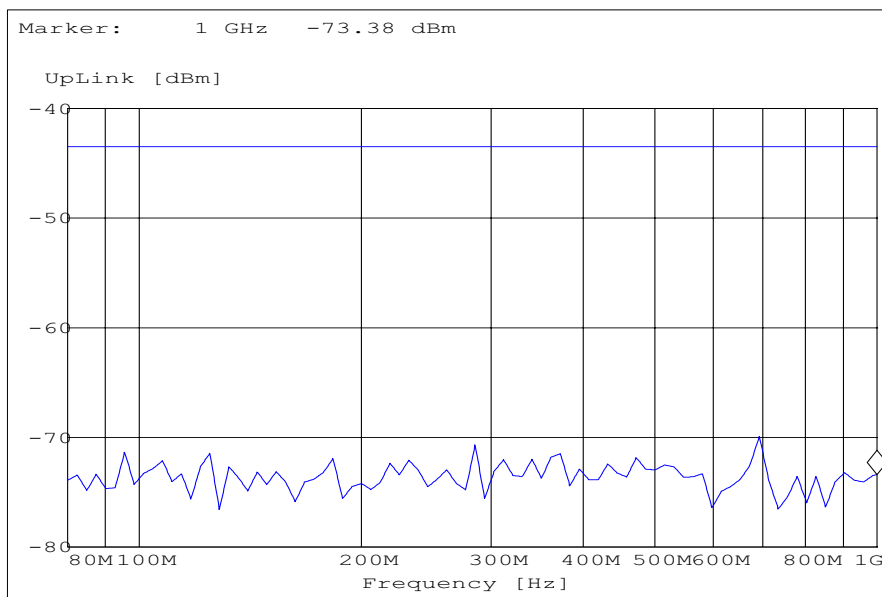
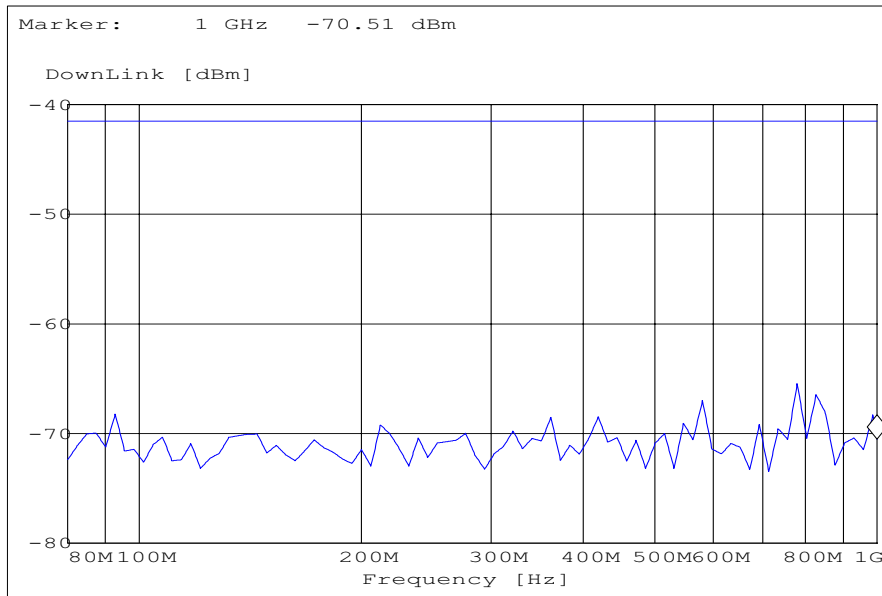
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Report No.: SHEMO051200623IT
Page 121 of 209

PCS 1900 charging with adaptor:

Horizontal:

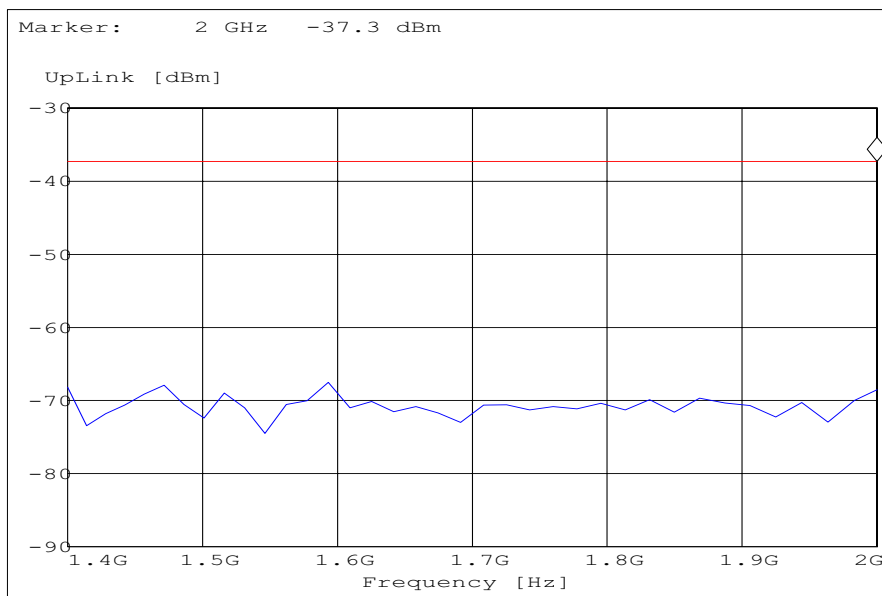
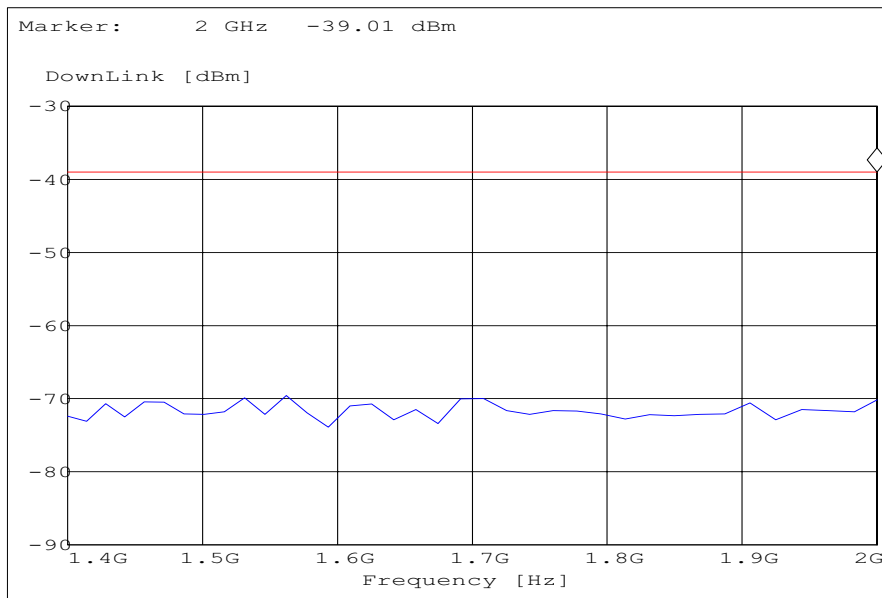


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Report No.: SHEMA0051200623IT
Page 122 of 209



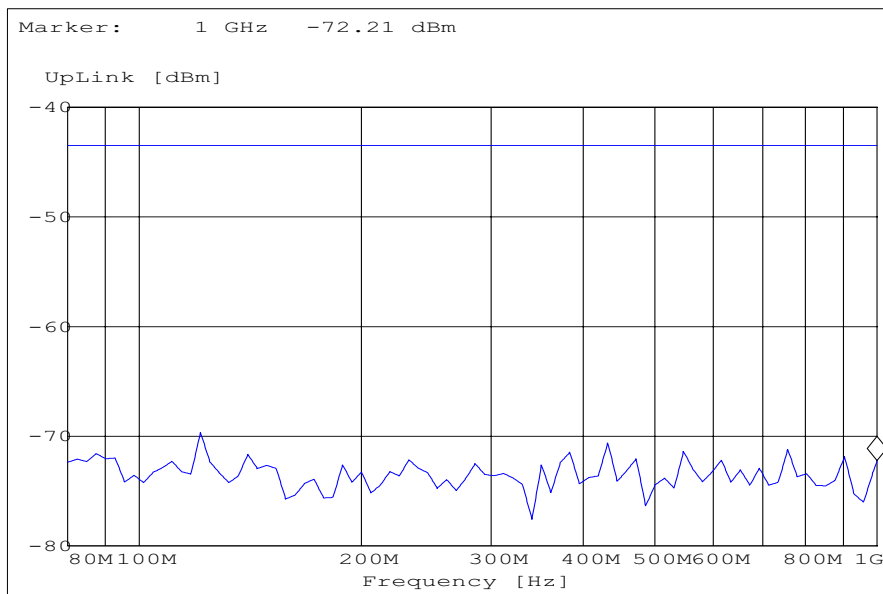
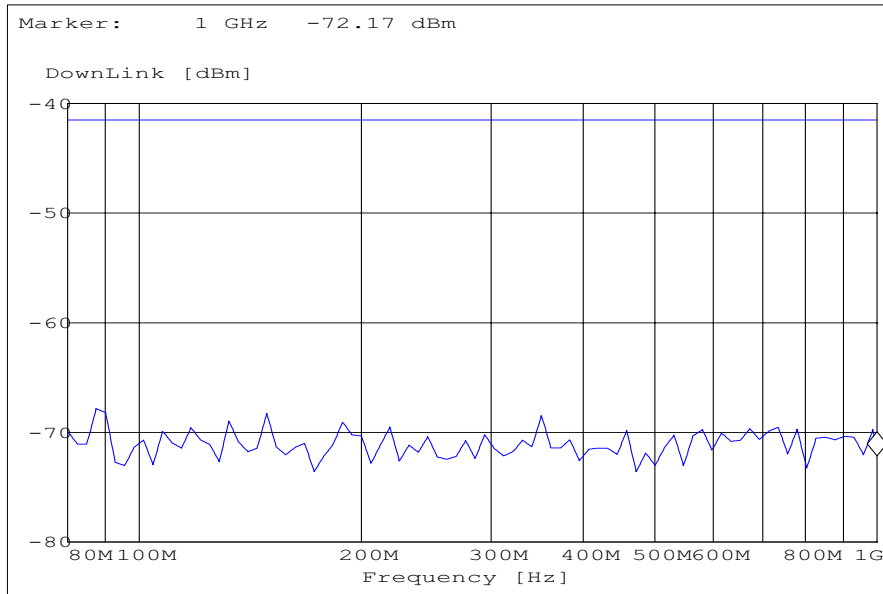
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Report No.: SHEMA0051200623IT
Page 123 of 209

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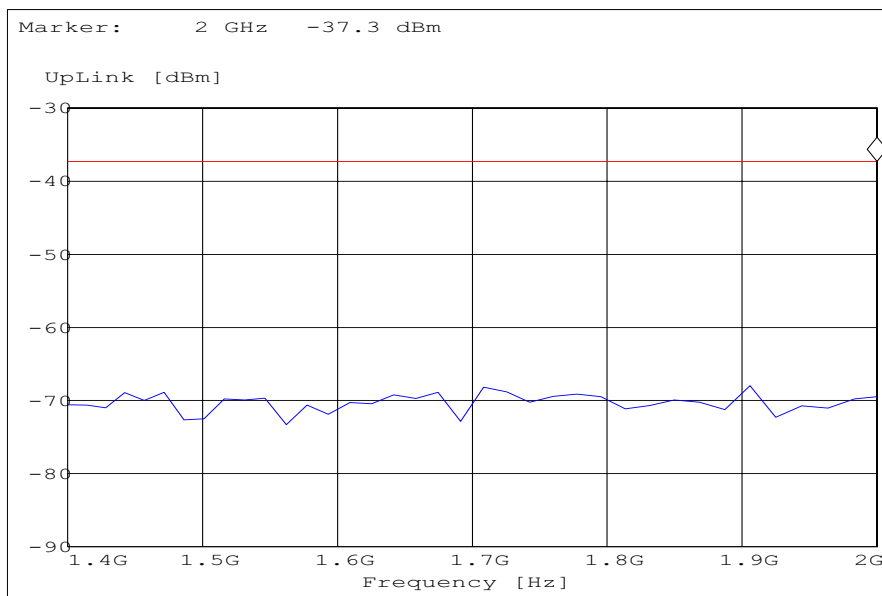
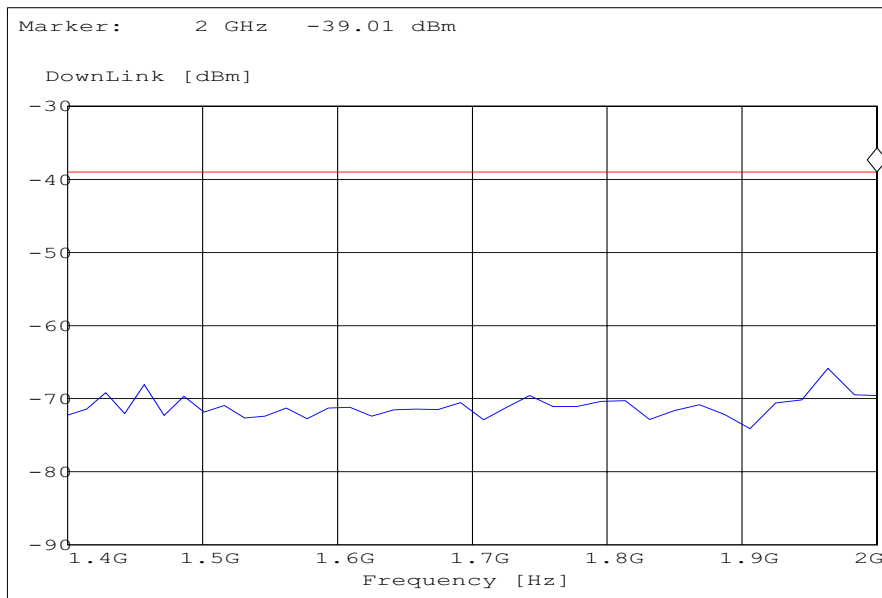


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Report No.: SHEMO051200623IT
Page 124 of 209



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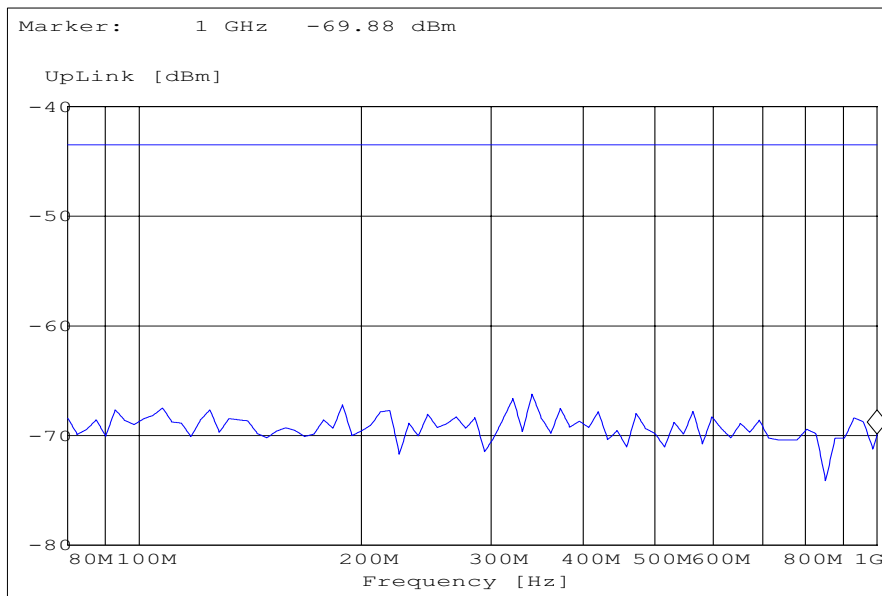
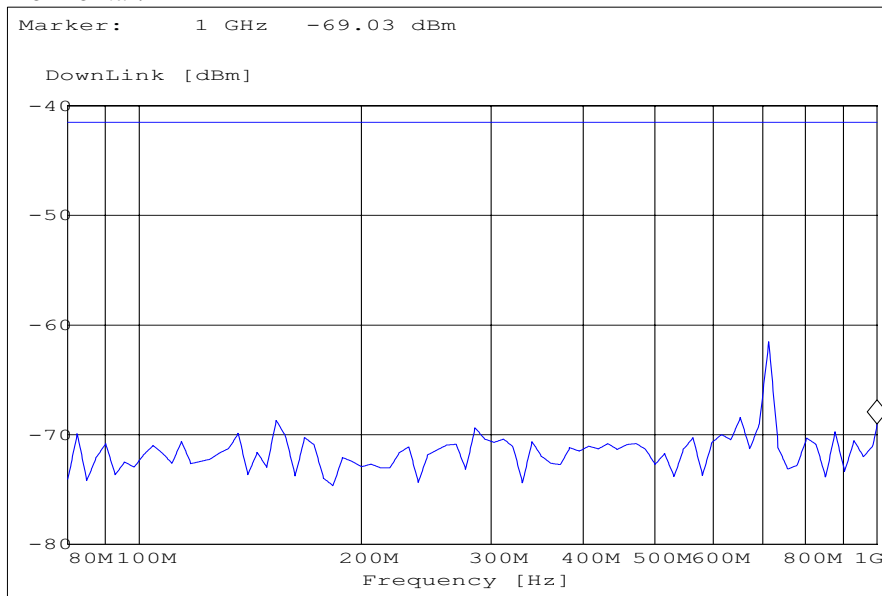
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Report No.: SHEMO051200623IT
Page 125 of 209

Power Supply4:

GSM 850 charging with adaptor:

Horizontal:

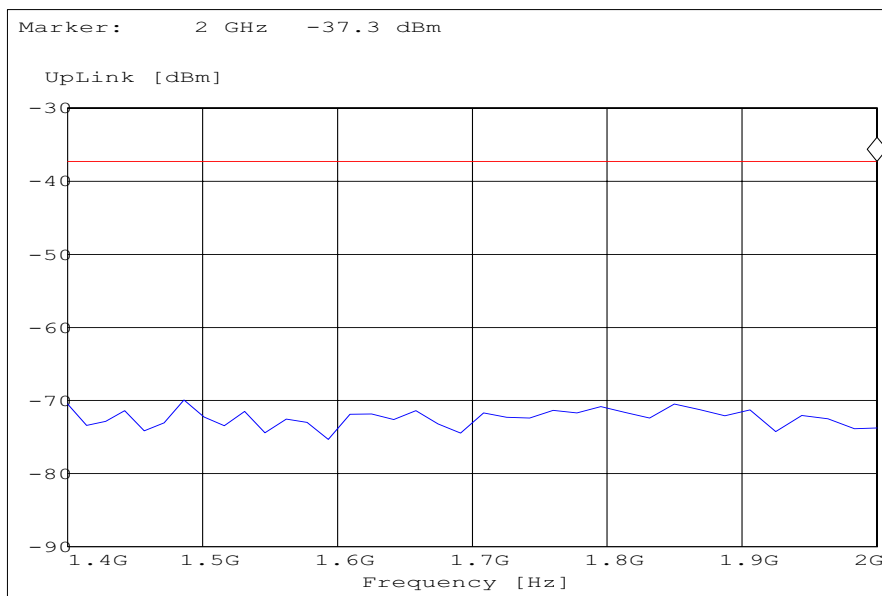
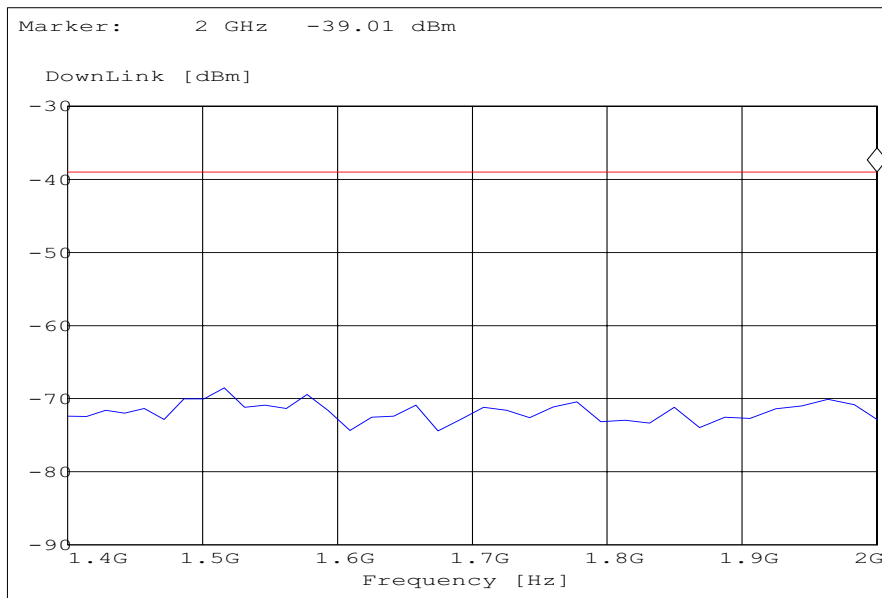


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Report No.: SHEMO051200623IT
Page 126 of 209



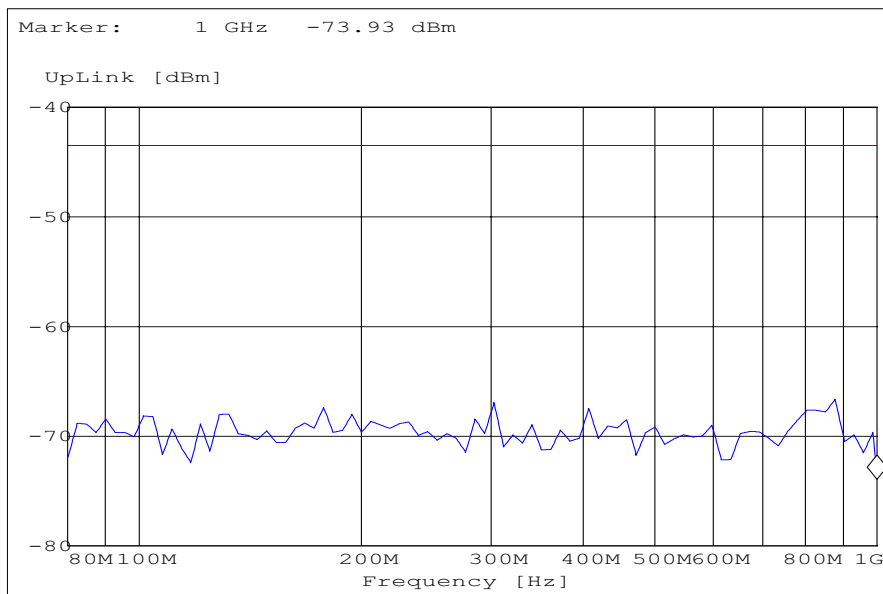
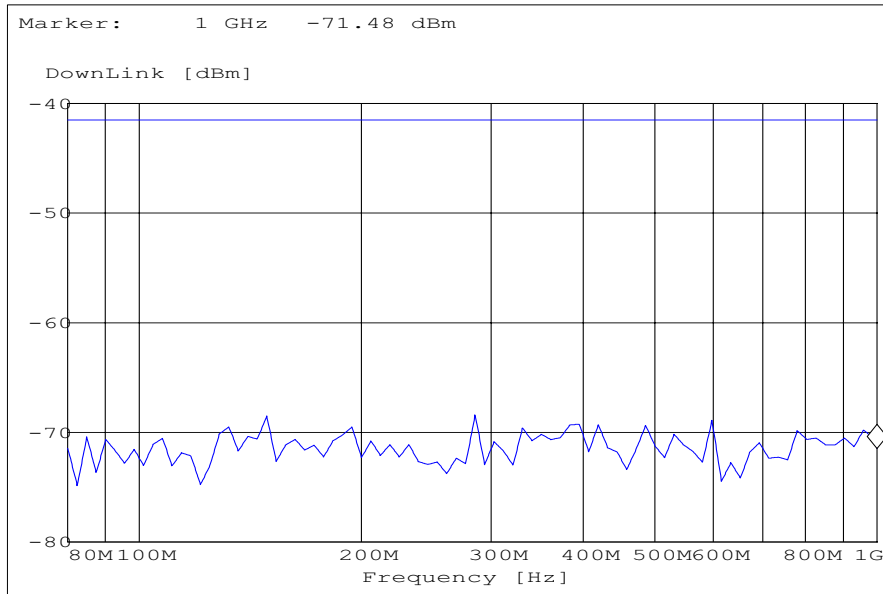
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Report No.: SHEMO051200623IT
Page 127 of 209

Vertical:



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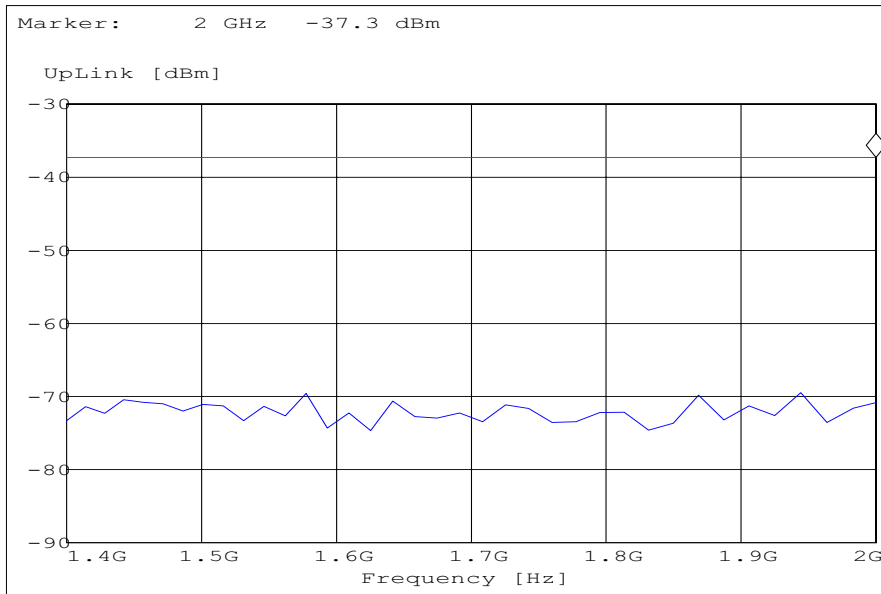
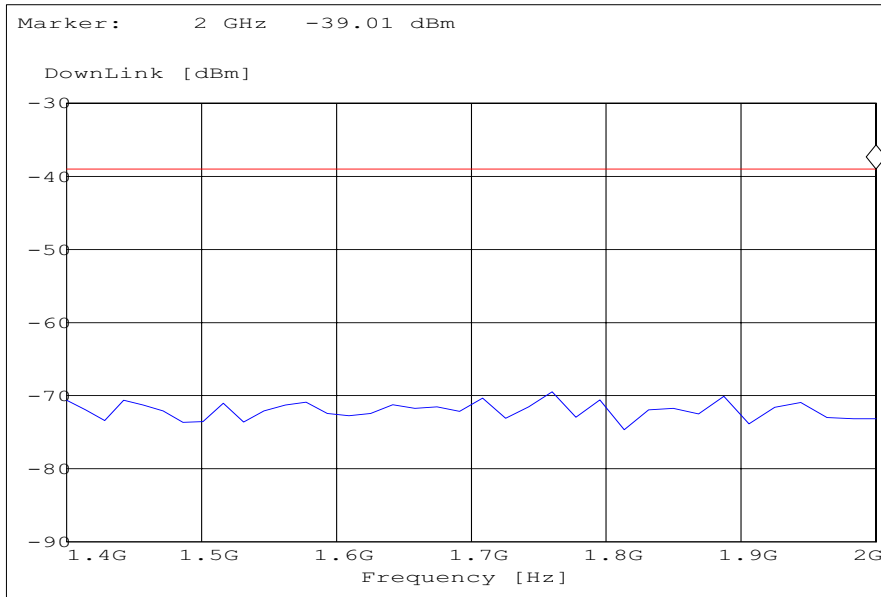
Telephone: +86 (0) 21 6495 1616

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Report No.: SHEMA051200623IT

Page 128 of 209



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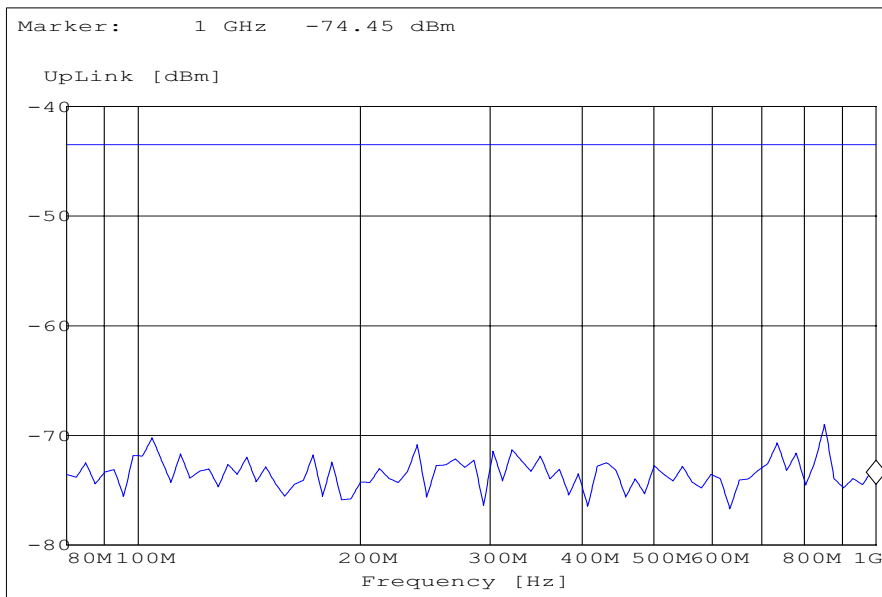
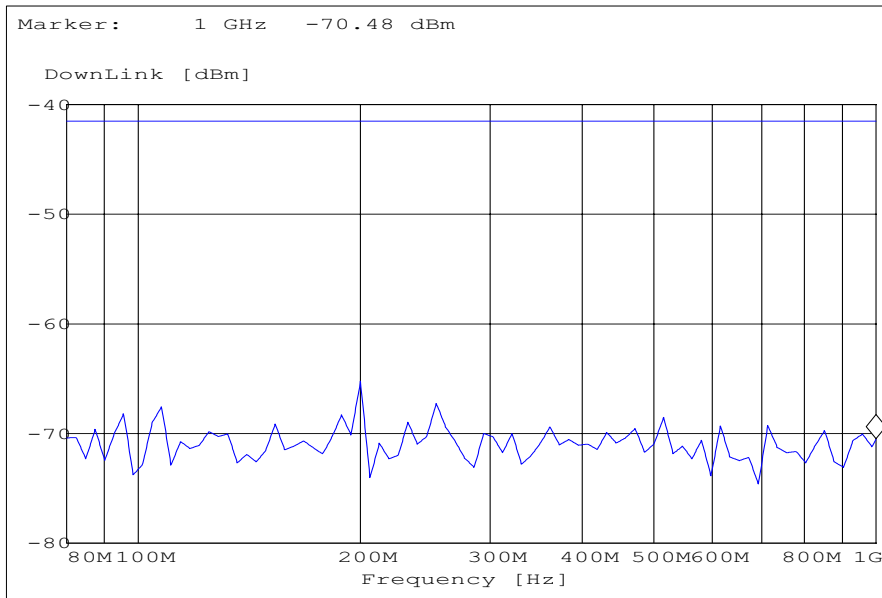
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
Yishan Road, Xuhui District, Shanghai, China

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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 129 of 209

PCS 1900 charging with adaptor:

Horizontal:

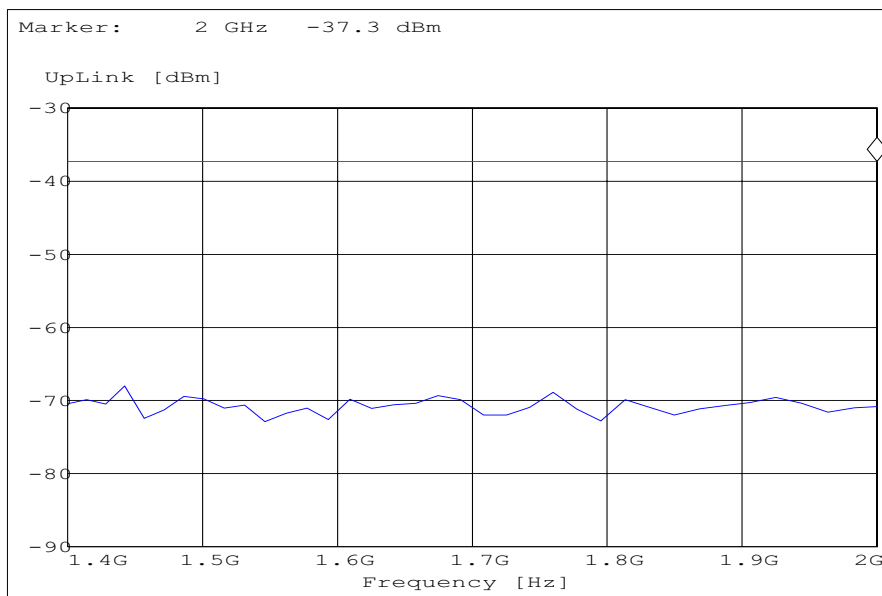
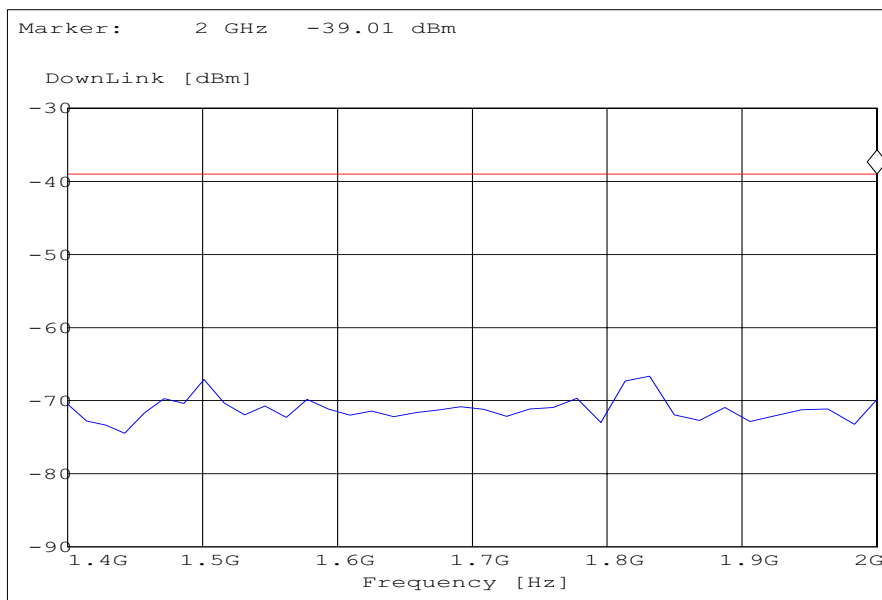


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Report No.: SHEMO051200623IT
Page 130 of 209



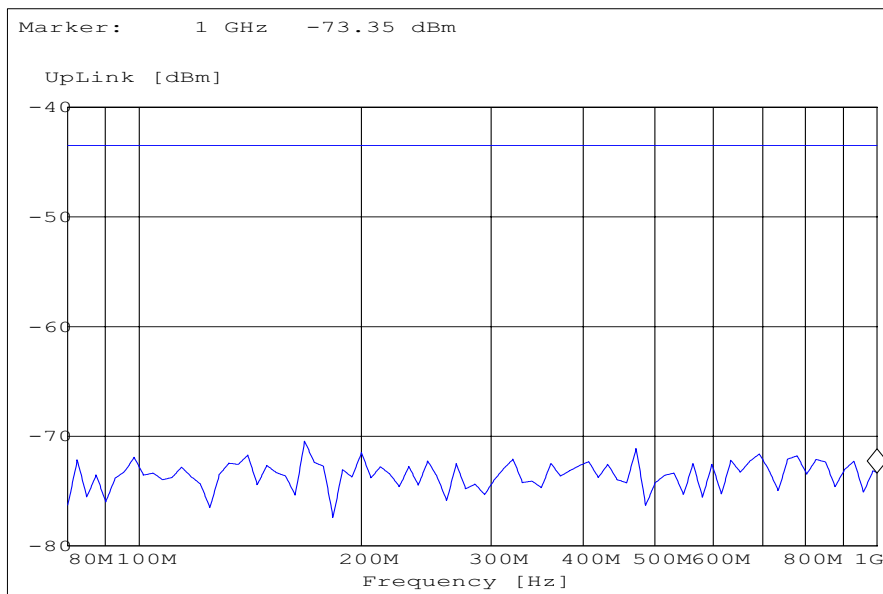
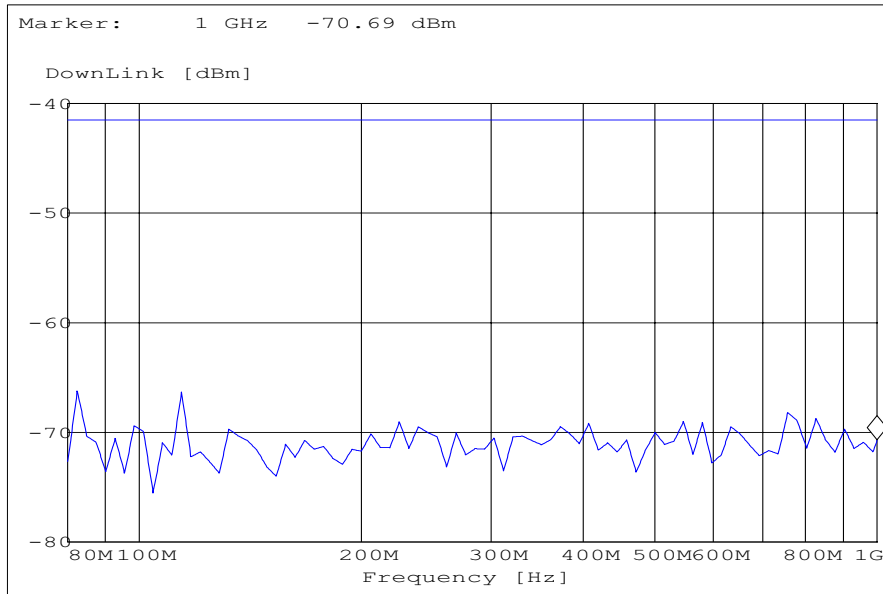
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Tino.Pan@sgs.com

Report No.: SHEMA0051200623IT
Page 131 of 209

Vertical:

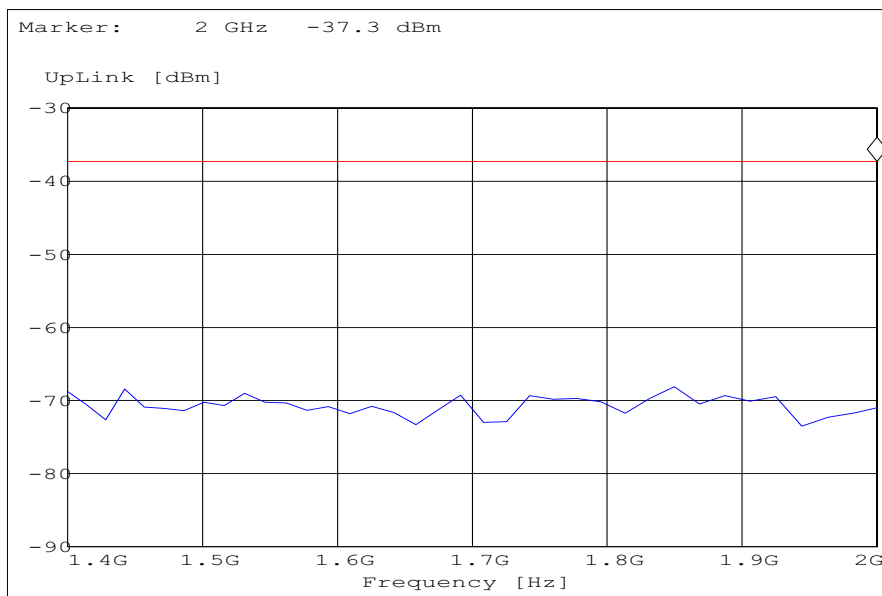
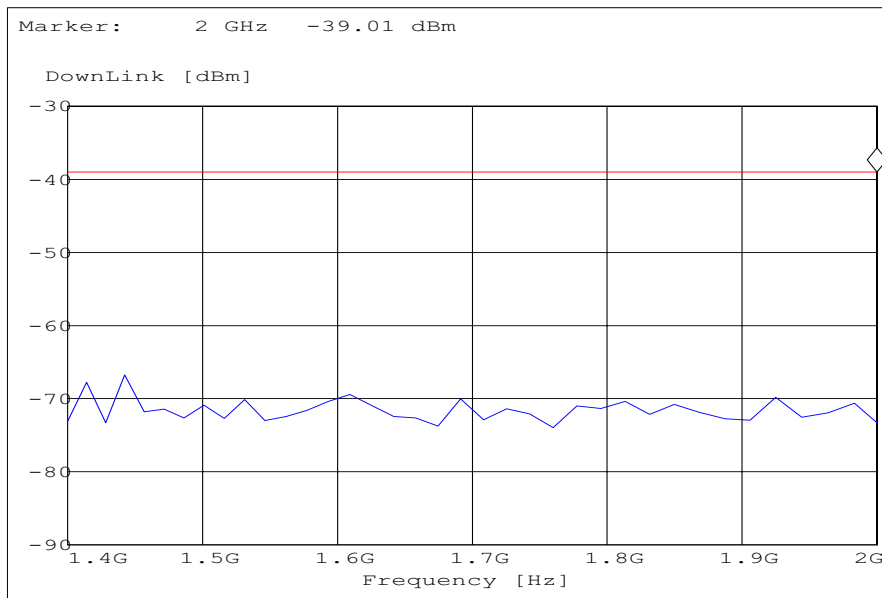


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Report No.: SHEMO051200623IT
Page 132 of 209



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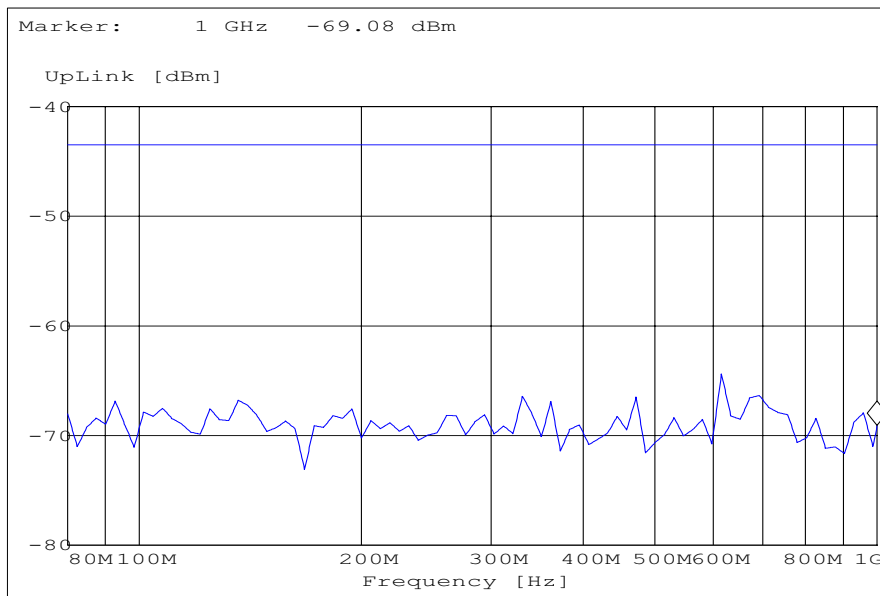
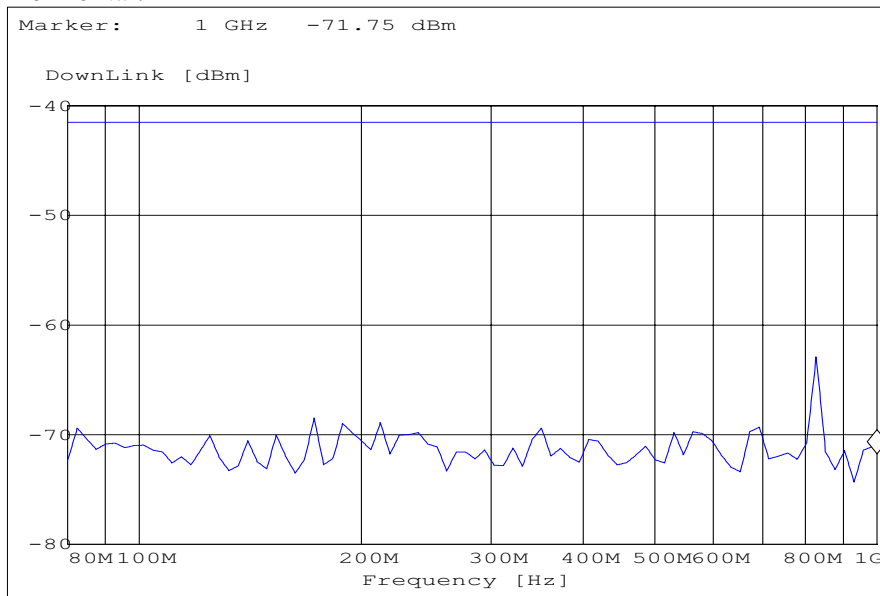
Telephone: +86 (0) 21 6495 1616
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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 133 of 209

Power Supply5:

GSM 850 charging with adaptor:

Horizontal:

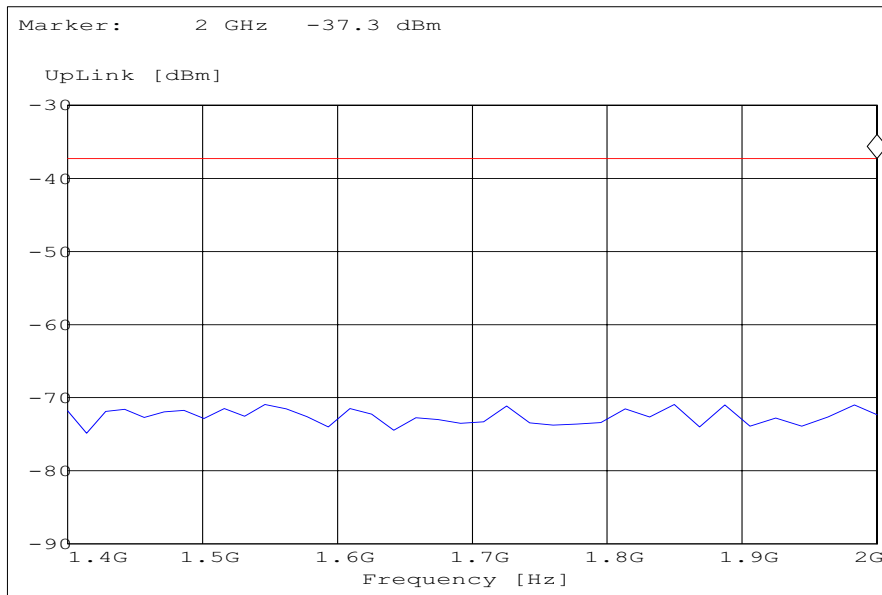
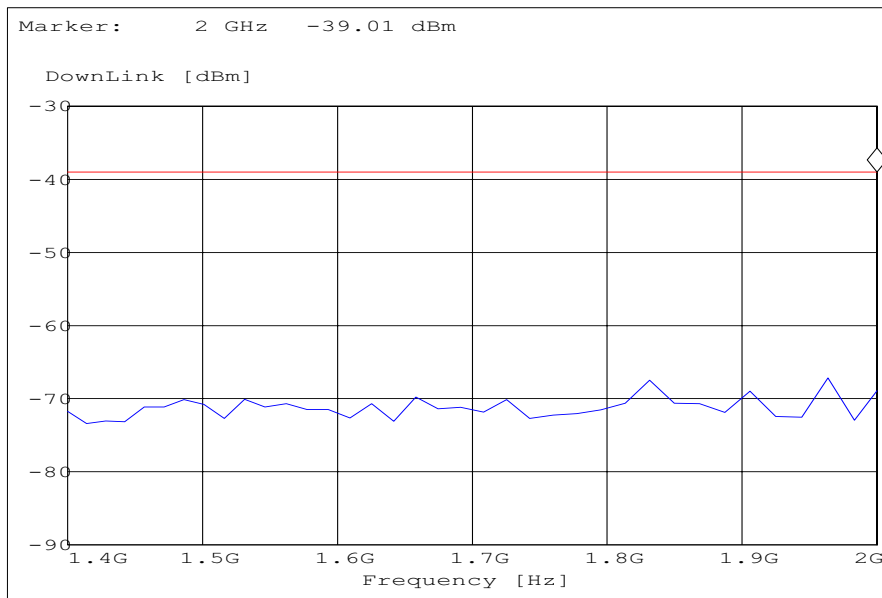


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Report No.: SHEMO051200623IT
Page 134 of 209



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Yishan Road, Xuhui District, Shanghai, China

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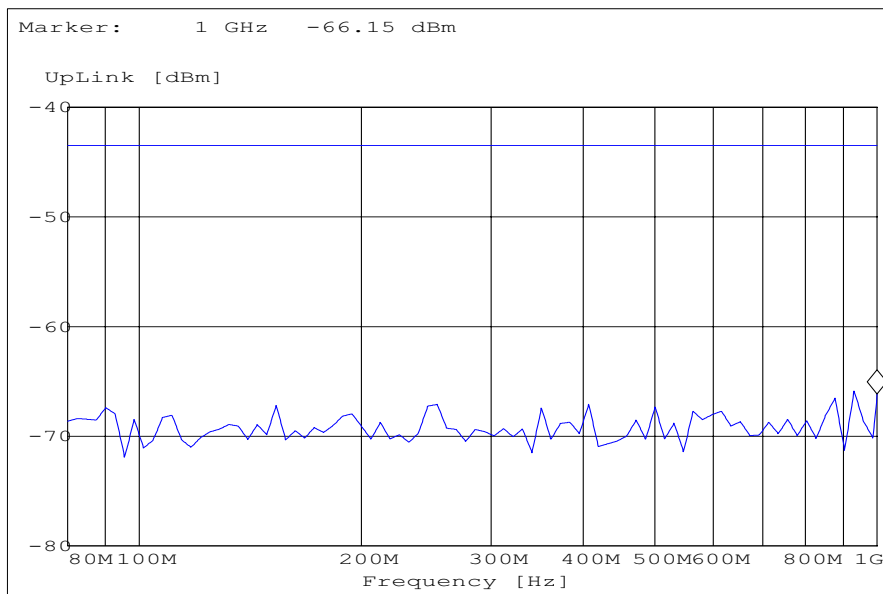
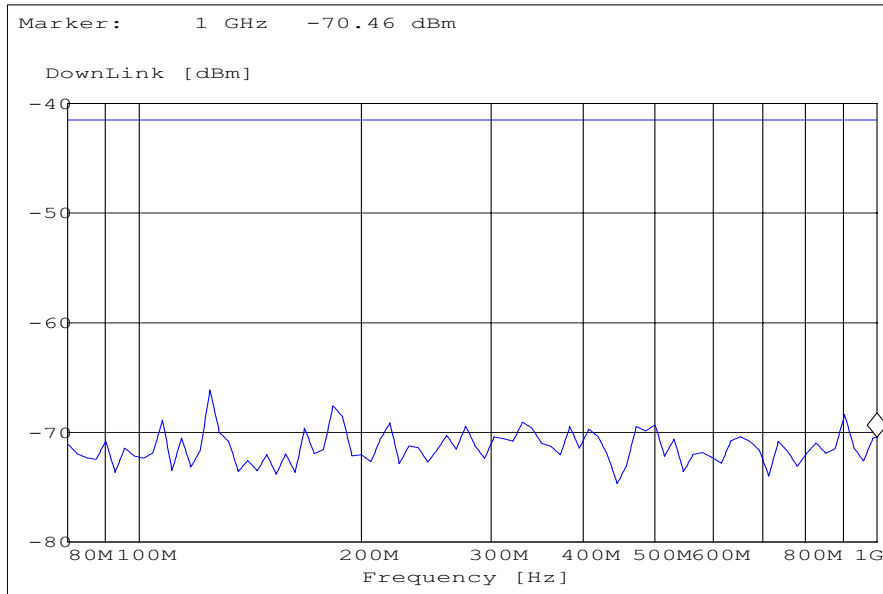
Fax: +86 (0) 21 5450 0954

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Report No.: SHEMA051200623IT

Page 135 of 209

Vertical:



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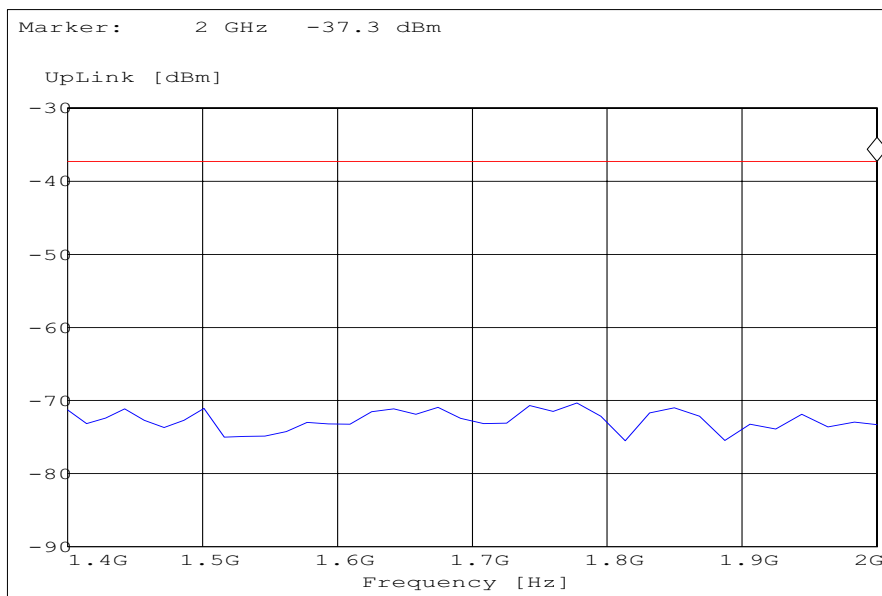
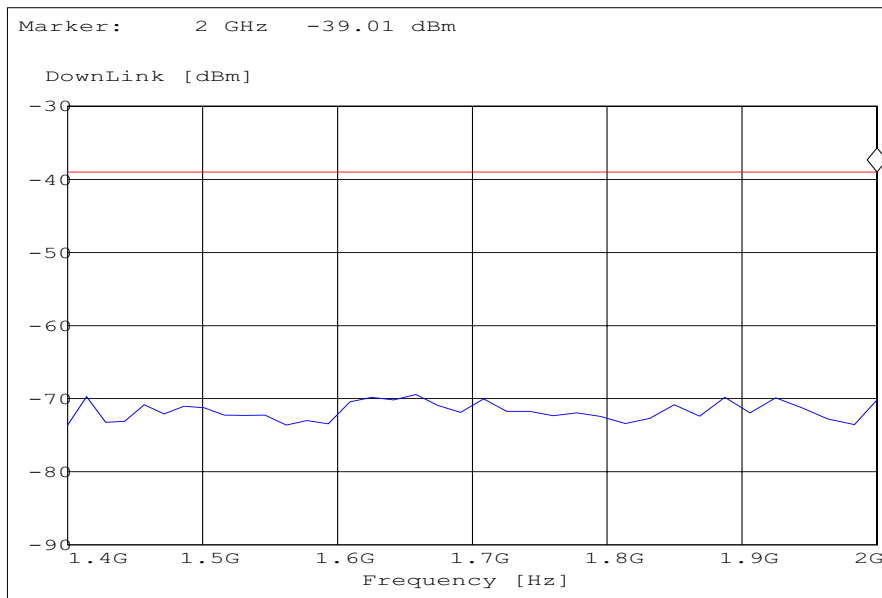
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Page 136 of 209



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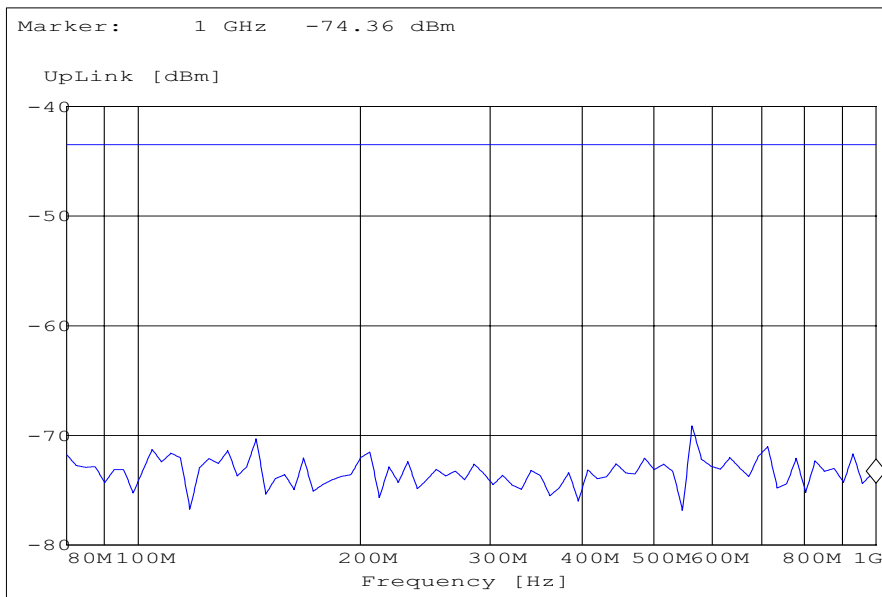
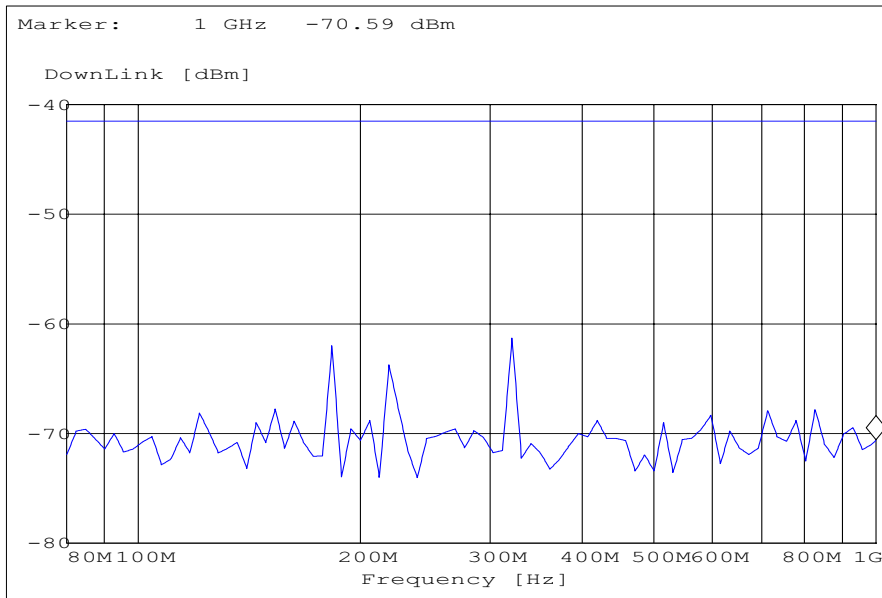
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 137 of 209

PCS 1900 charging with adaptor:

Horizontal:

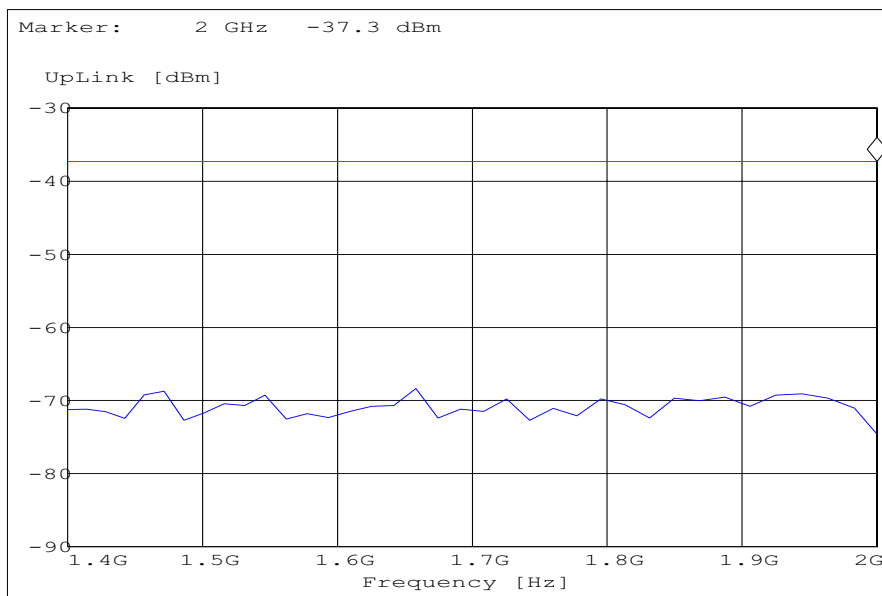
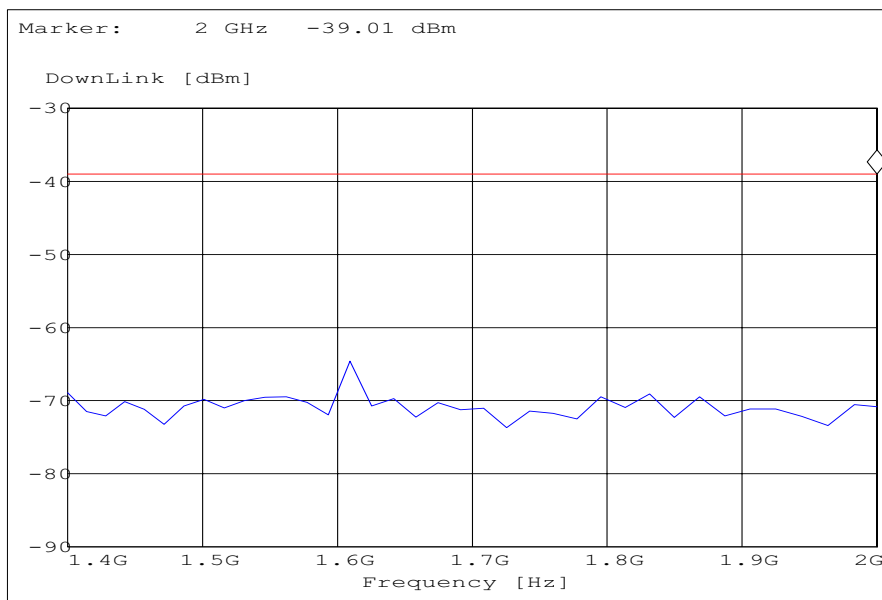


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Report No.: SHEMO051200623IT
Page 138 of 209



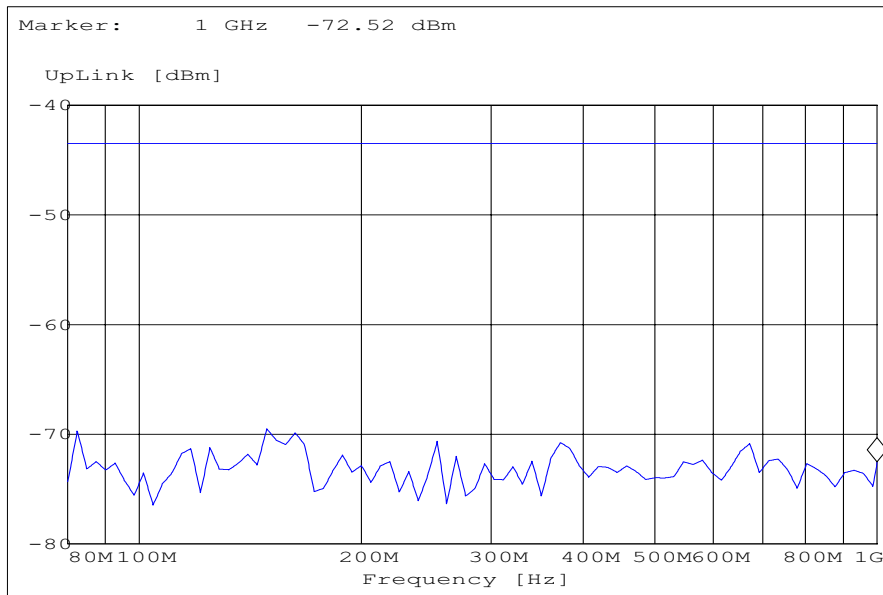
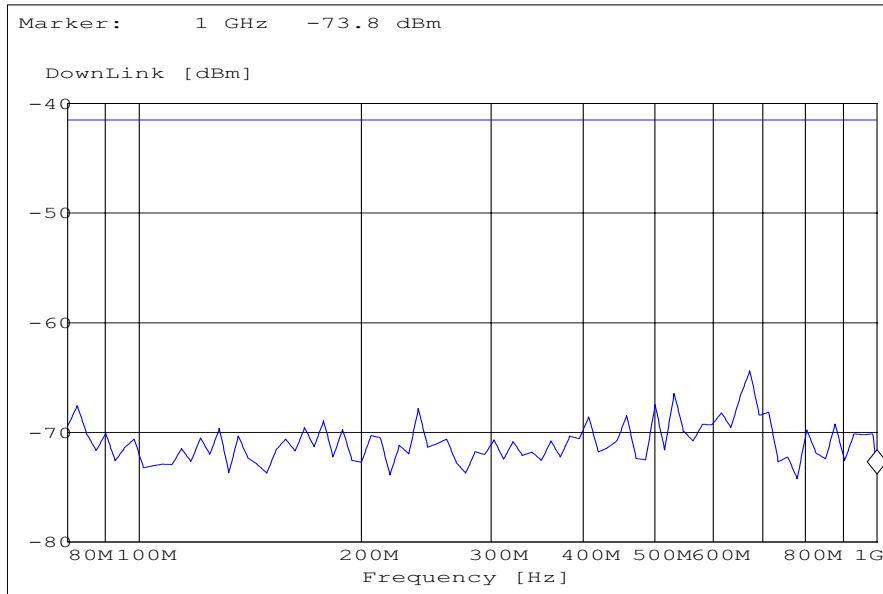
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Report No.: SHEMA051200623IT
Page 139 of 209

Vertical:

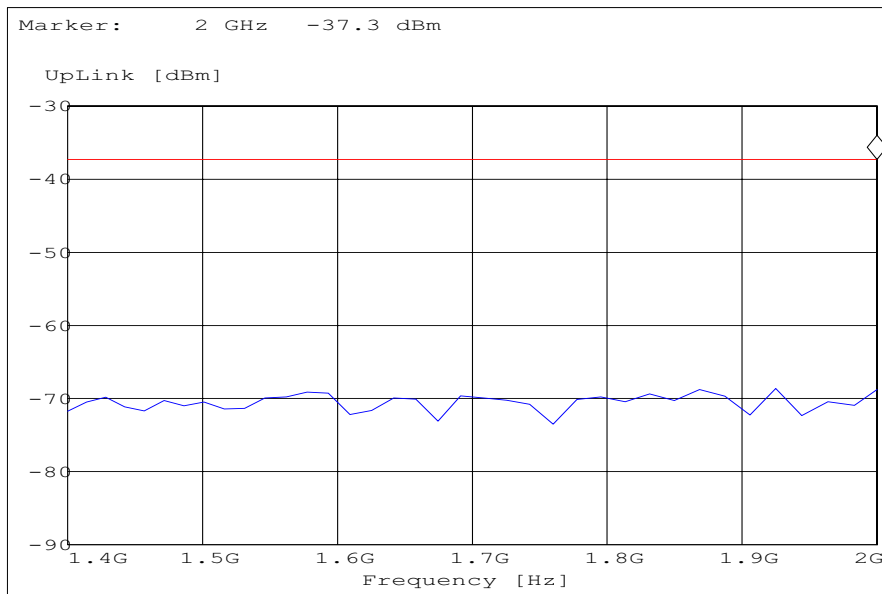
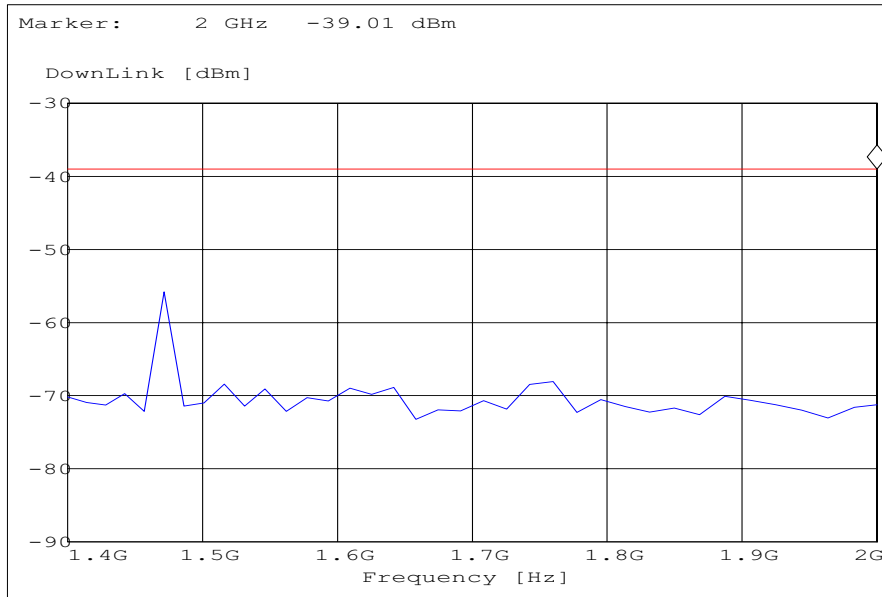


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Report No.: SHEMA051200623IT
Page 140 of 209



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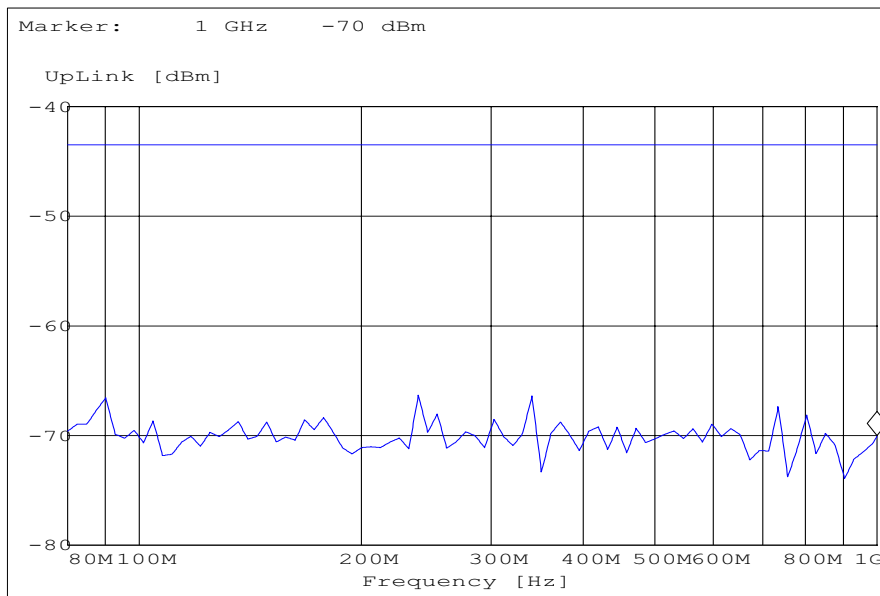
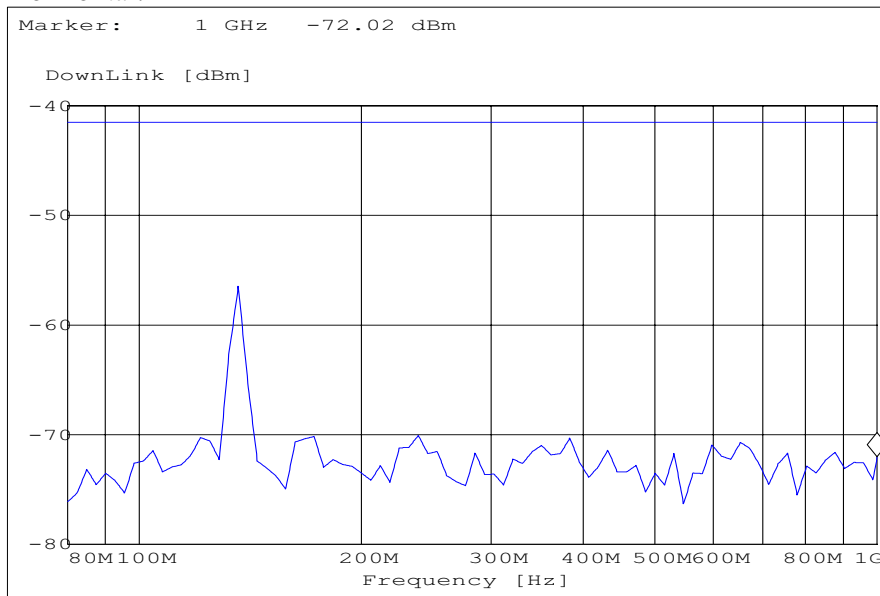
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Report No.: SHEMO051200623IT
Page 141 of 209

Connected with headset

GSM 850:

Horizontal:

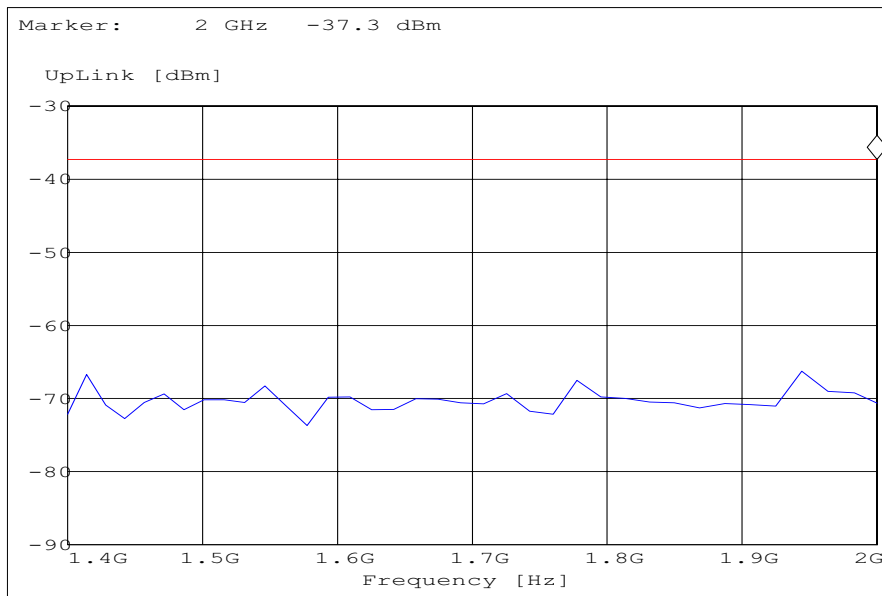
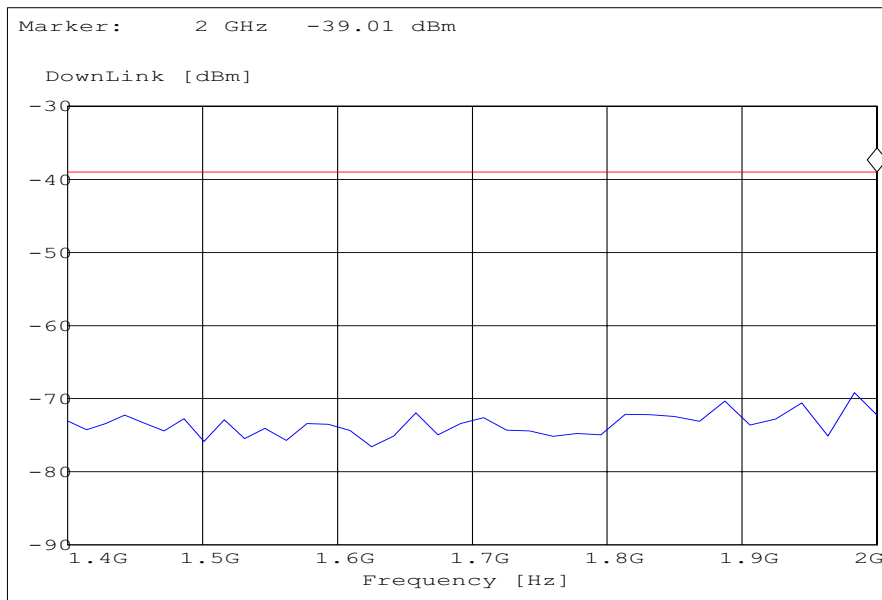


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Report No.: SHEMA0051200623IT
Page 142 of 209



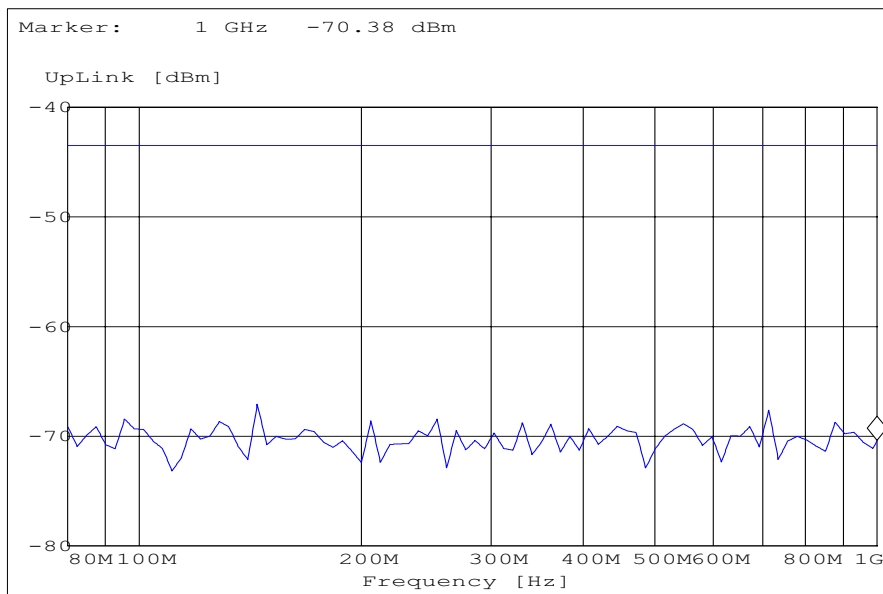
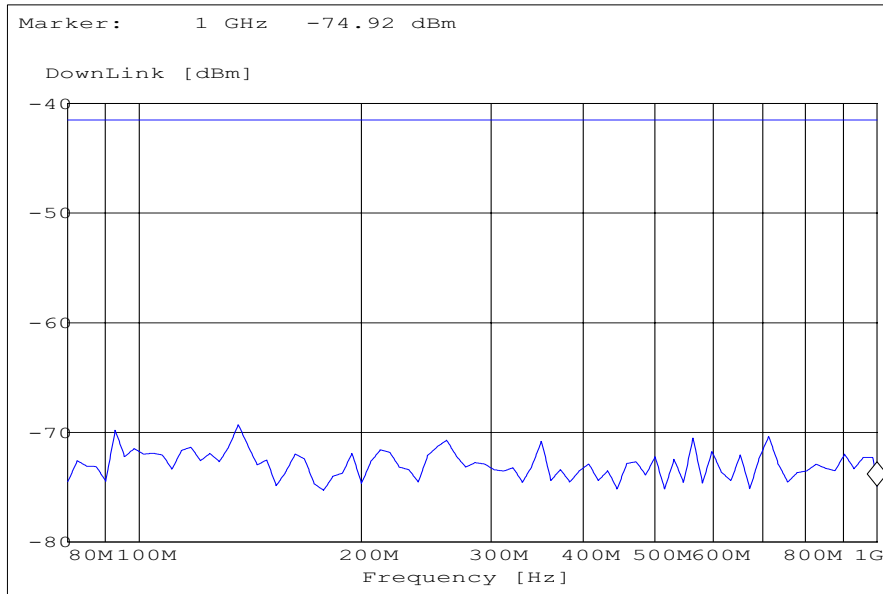
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Report No.: SHEMA051200623IT
Page 143 of 209

Vertical:

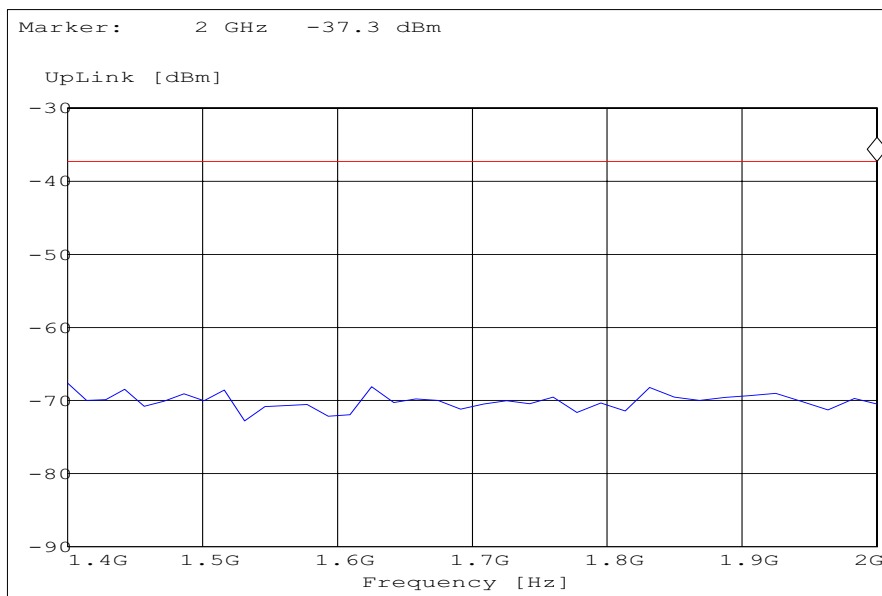
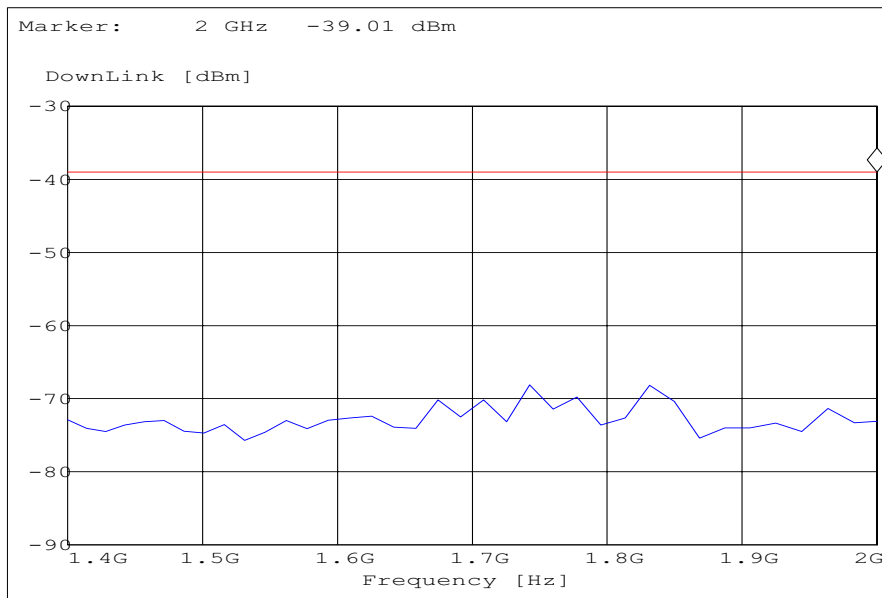


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Tino.Pan@sgs.com

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Page 144 of 209



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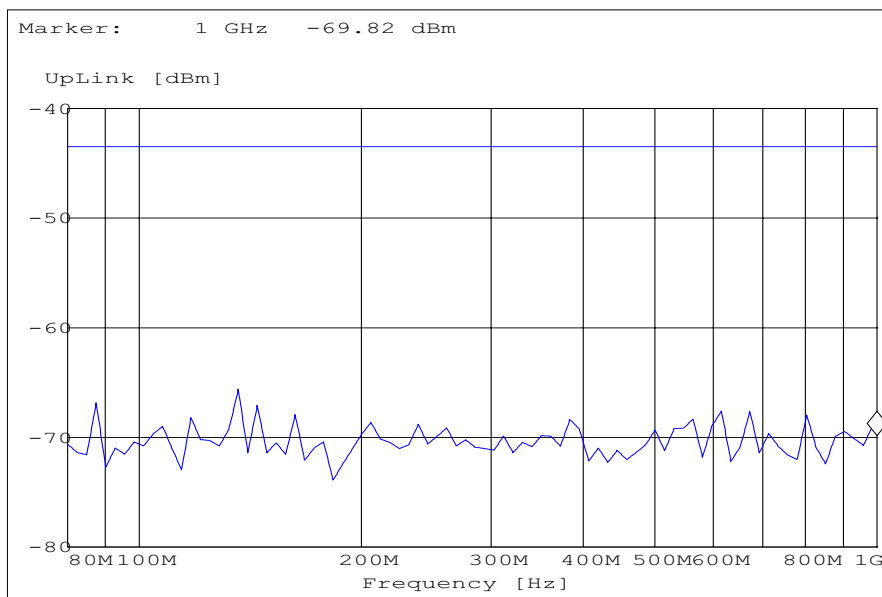
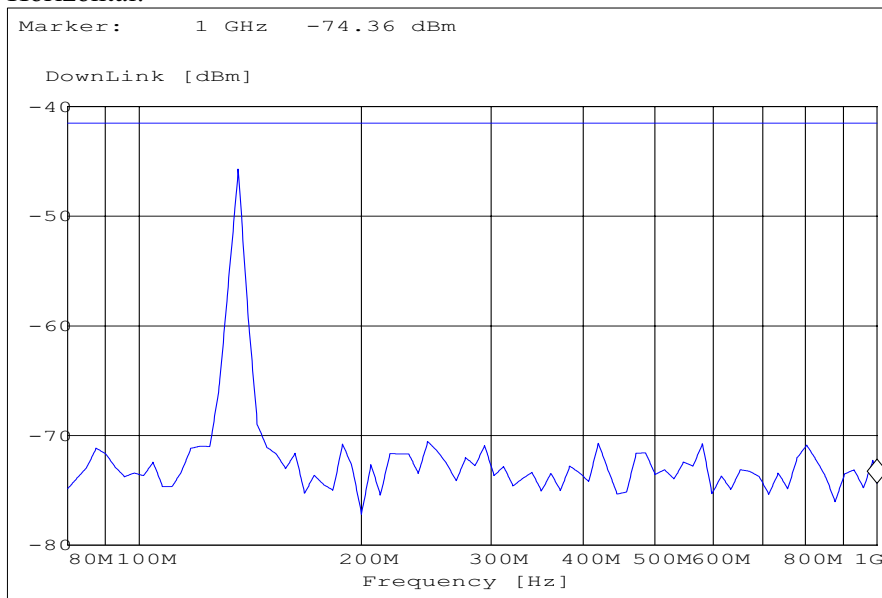
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 145 of 209

PCS 1900:

Horizontal:

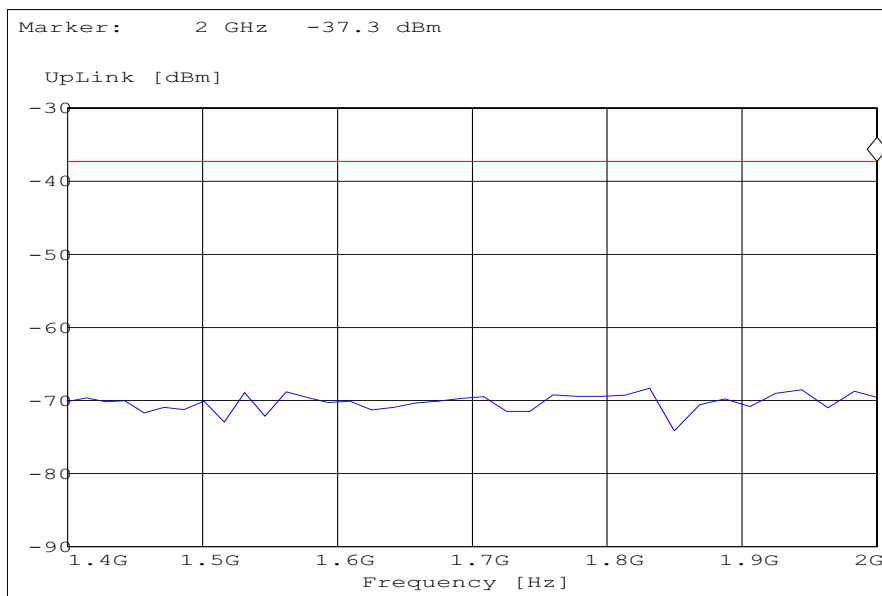
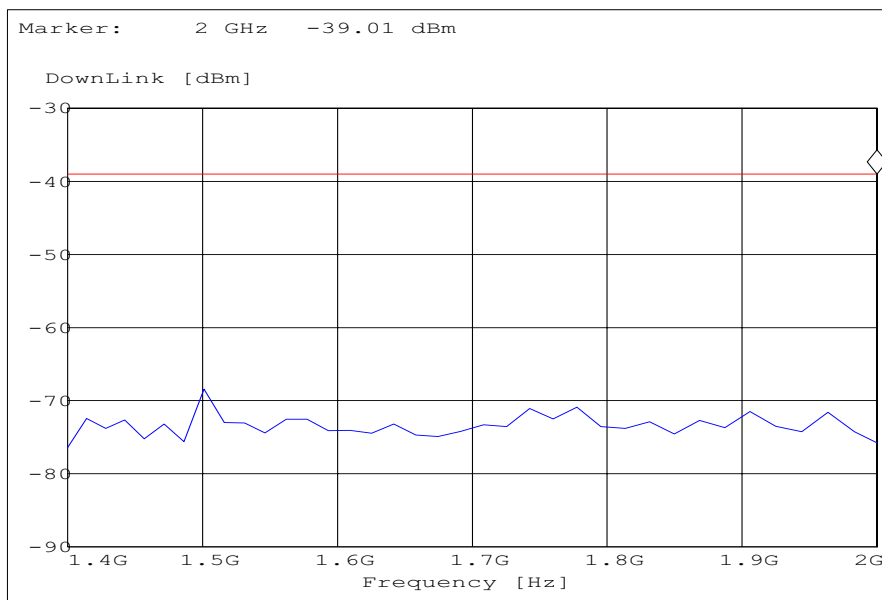


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Report No.: SHEMA0051200623IT
Page 146 of 209



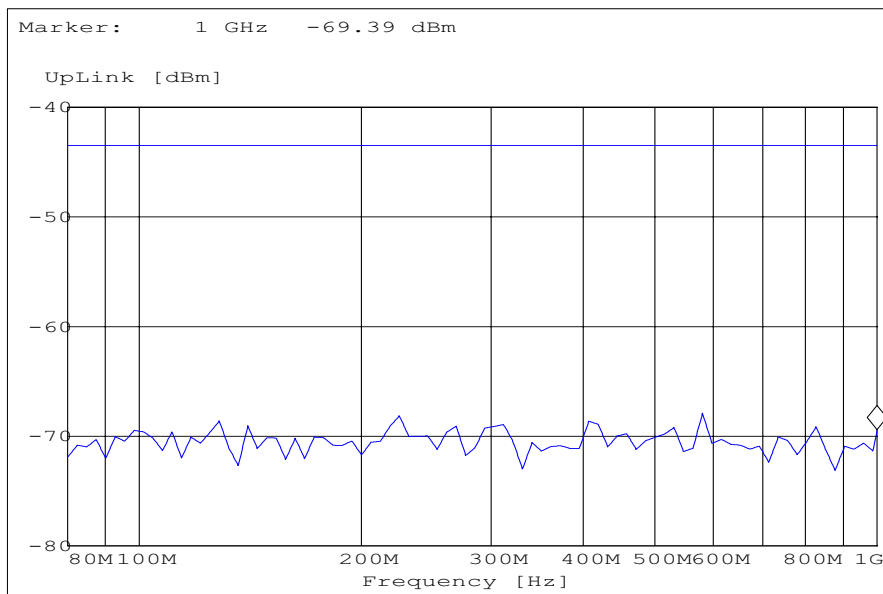
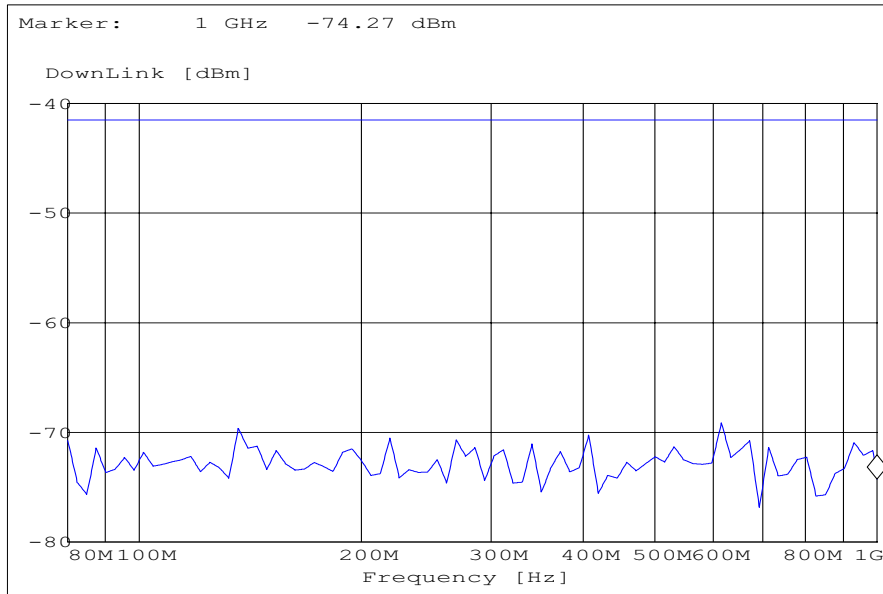
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Report No.: SHEMA051200623IT
Page 147 of 209

Vertical:



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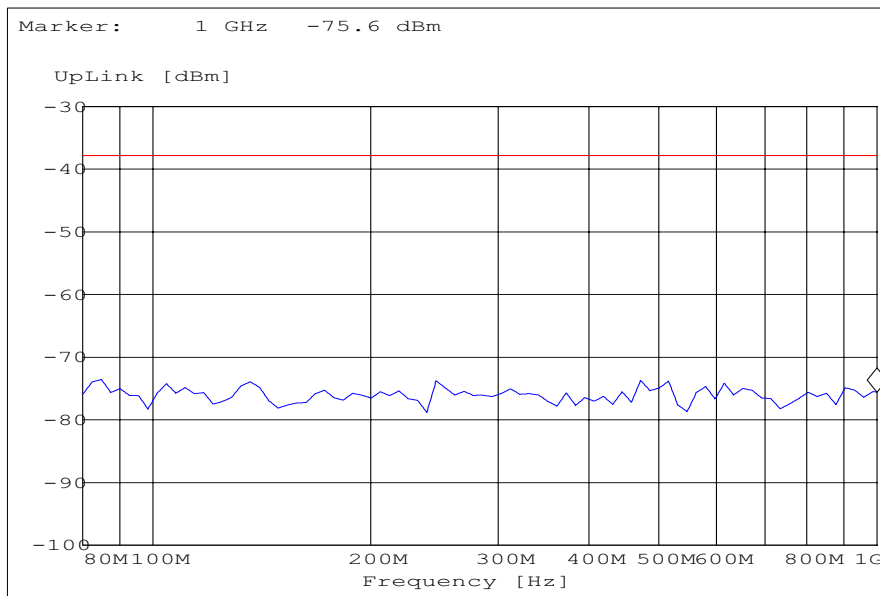
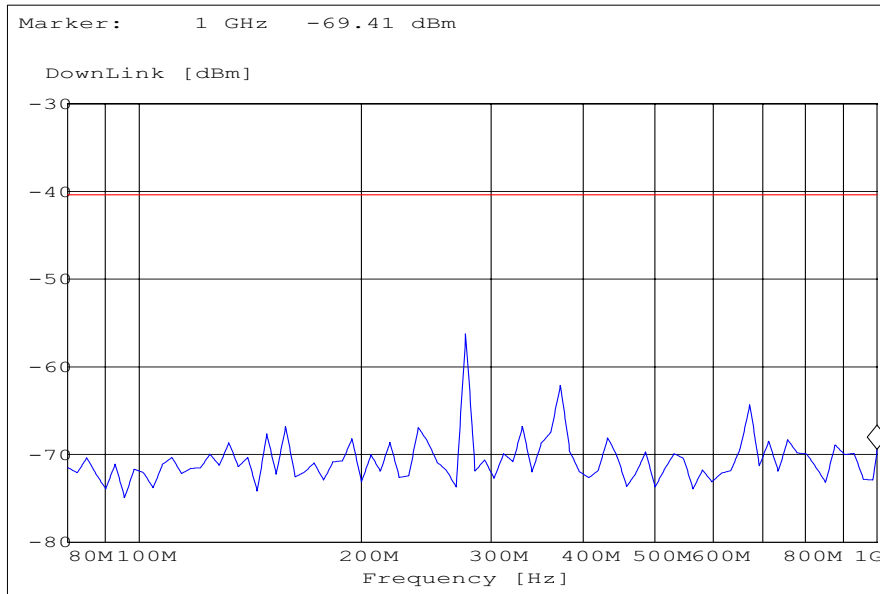
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Page 149 of 209

Power Supply7:

GSM 850 charging with adaptor:

Horizontal:

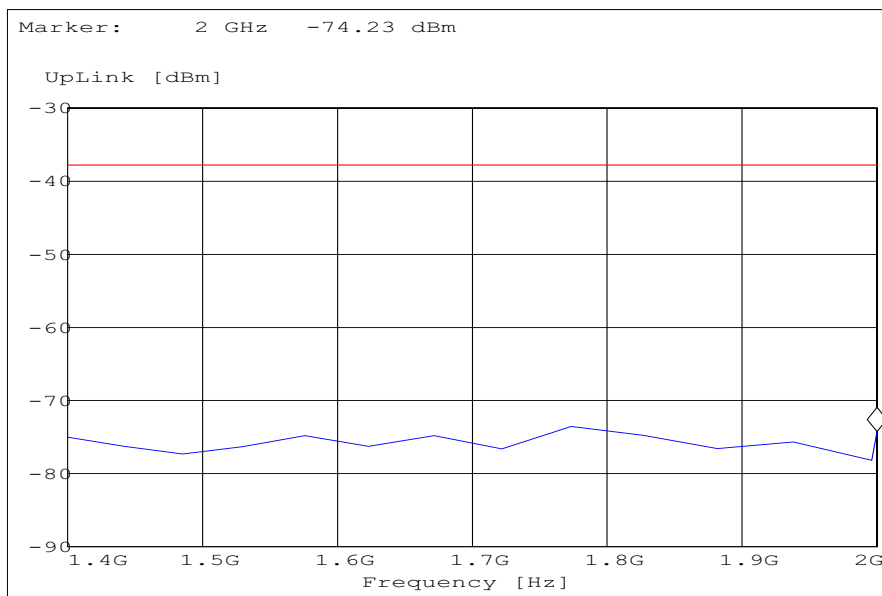
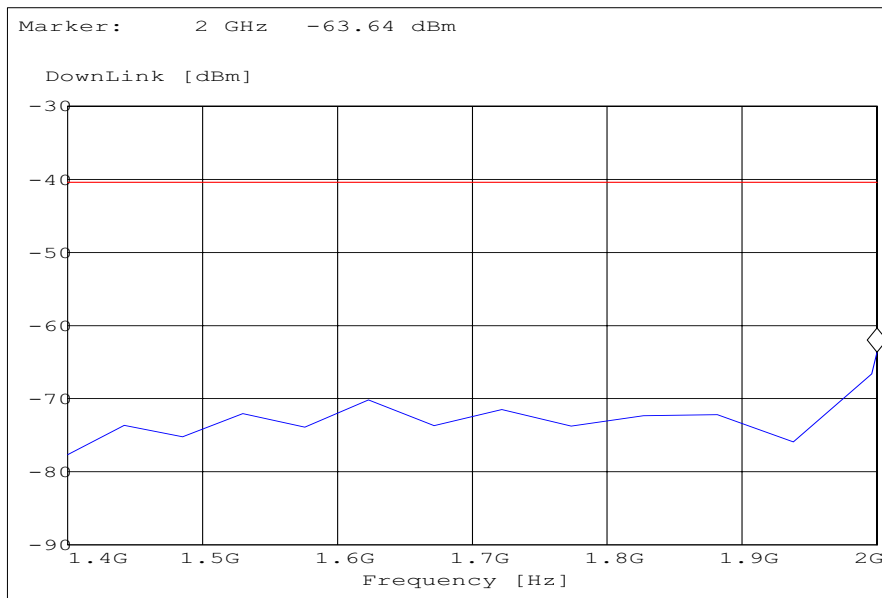


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Report No.: SHEMA0051200623IT
Page 150 of 209



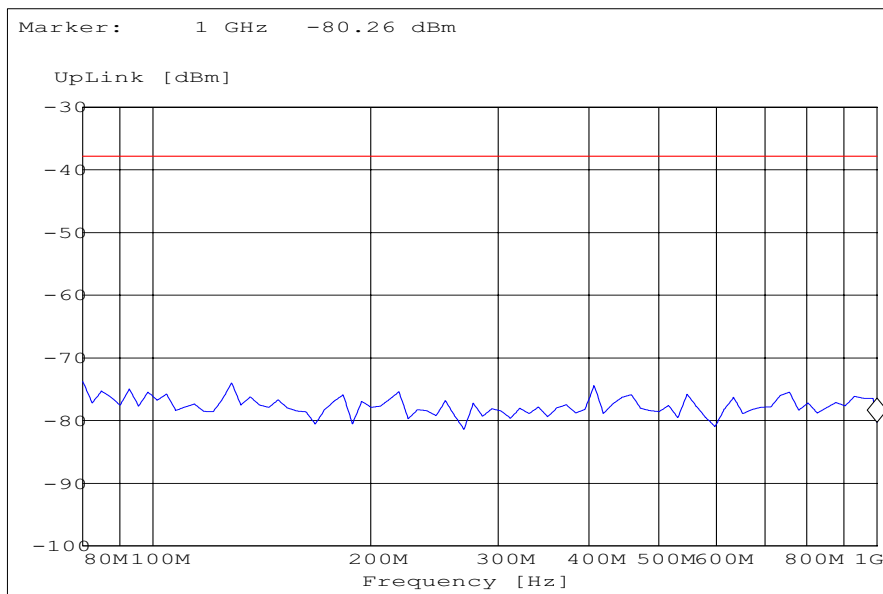
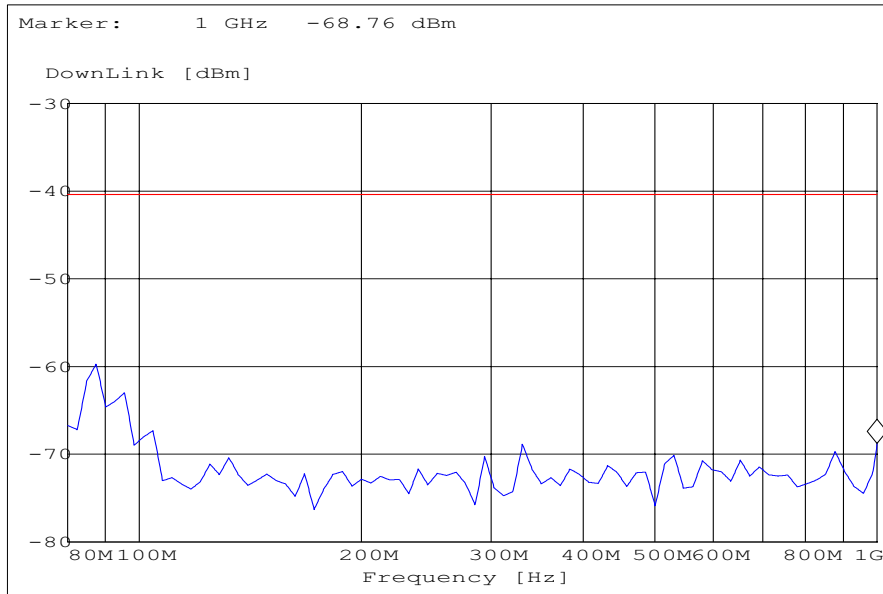
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Report No.: SHEMO051200623IT
Page 151 of 209

Vertical:

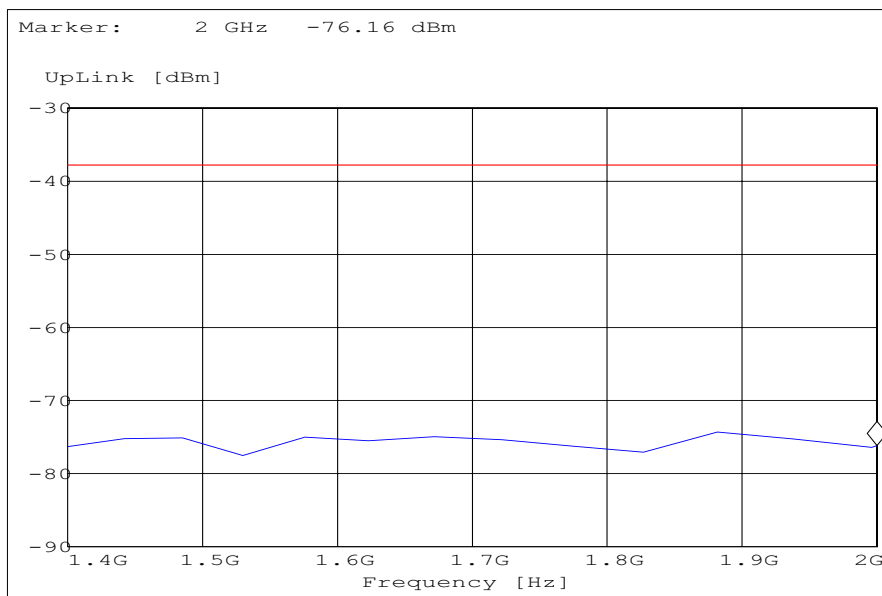
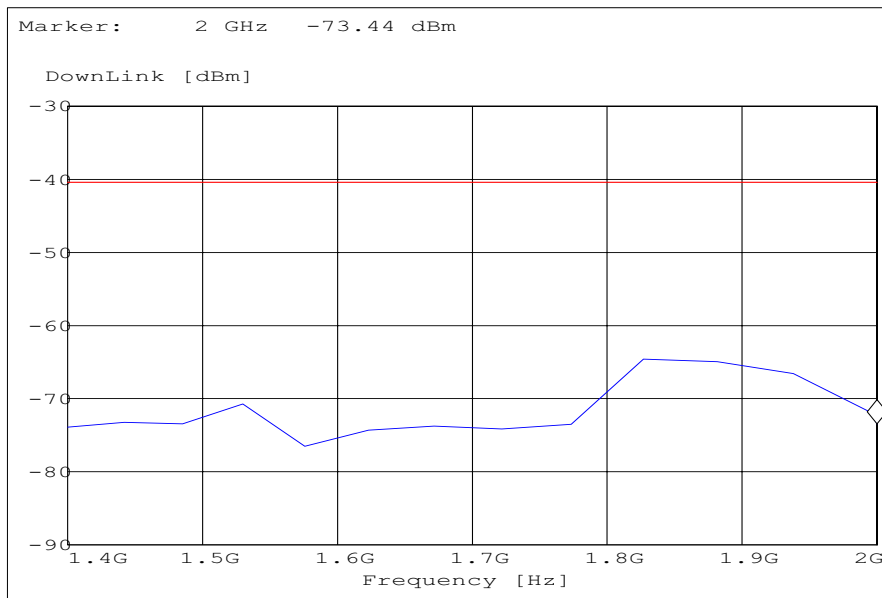


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Report No.: SHEMA0051200623IT
Page 152 of 209



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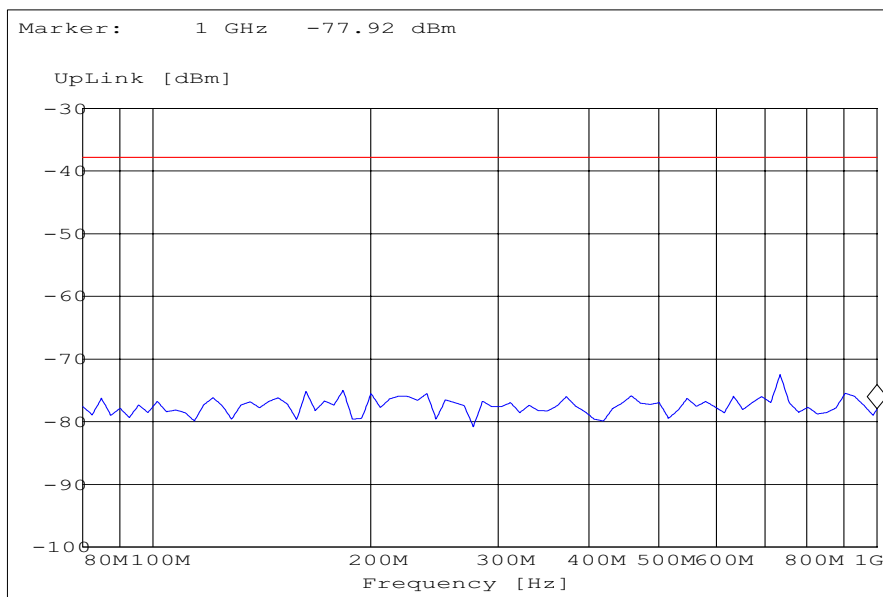
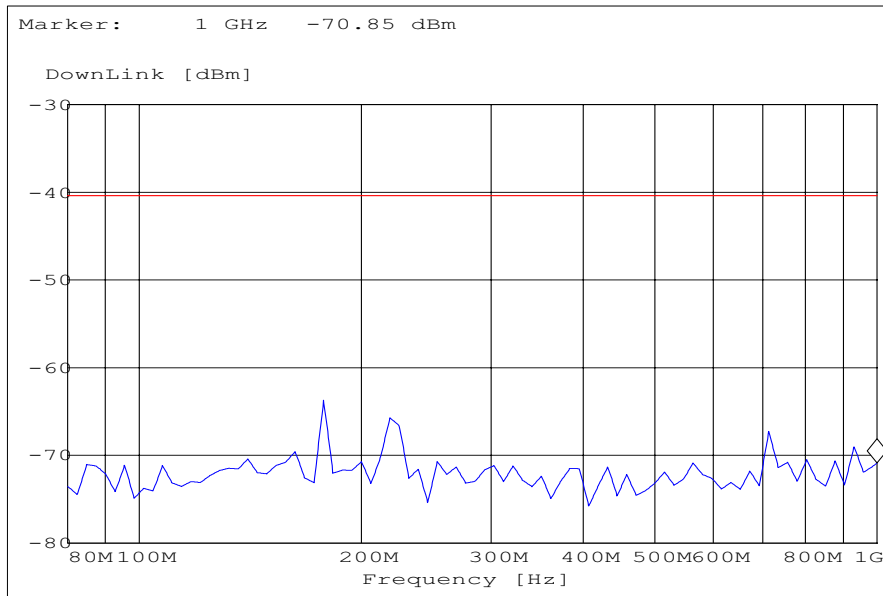
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 153 of 209

PCS 1900 charging with adaptor:

Horizontal:

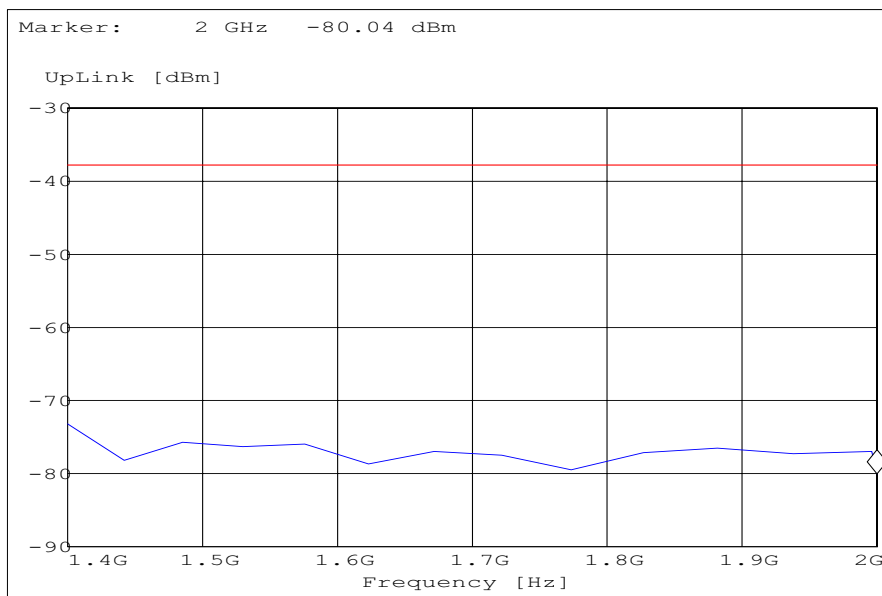
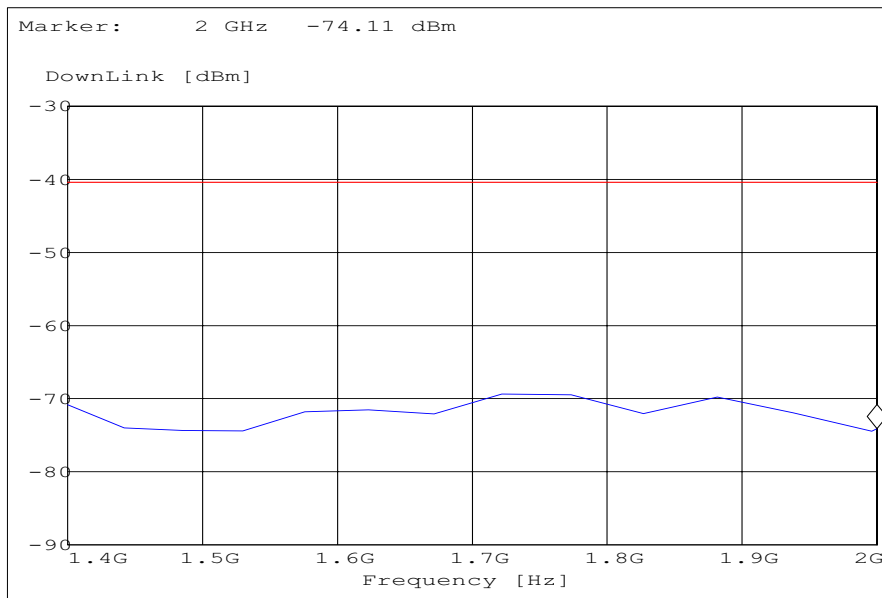


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Report No.: SHEMO051200623IT
Page 154 of 209



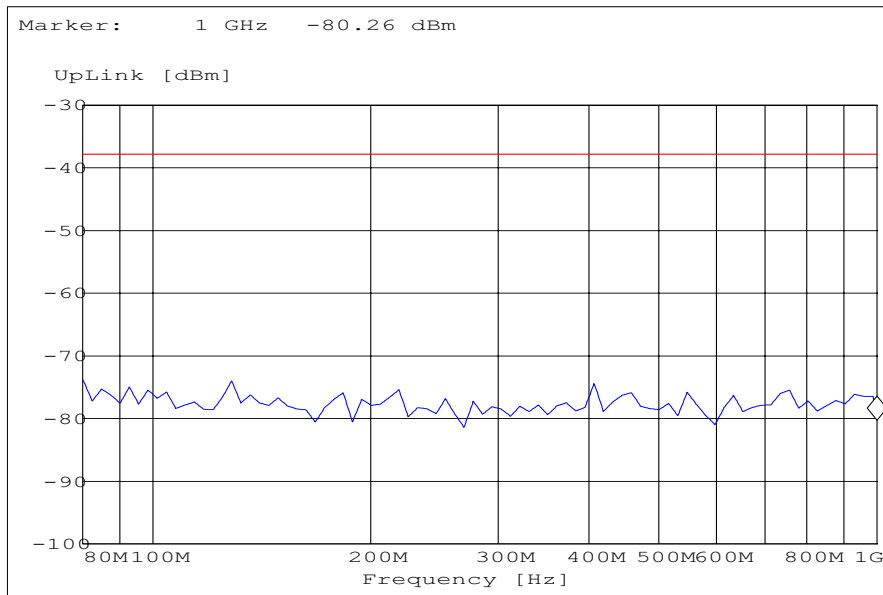
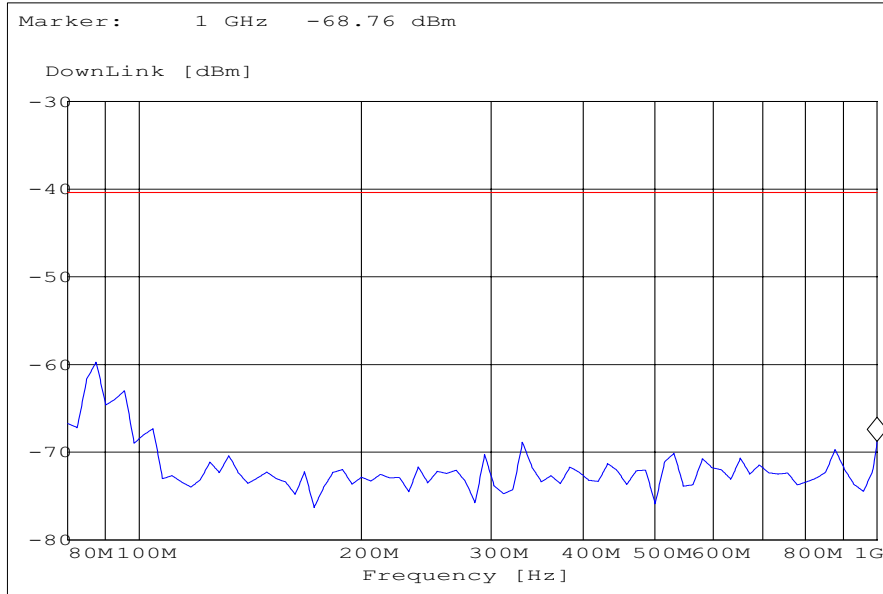
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Report No.: SHEMA0051200623IT
Page 155 of 209

Vertical:



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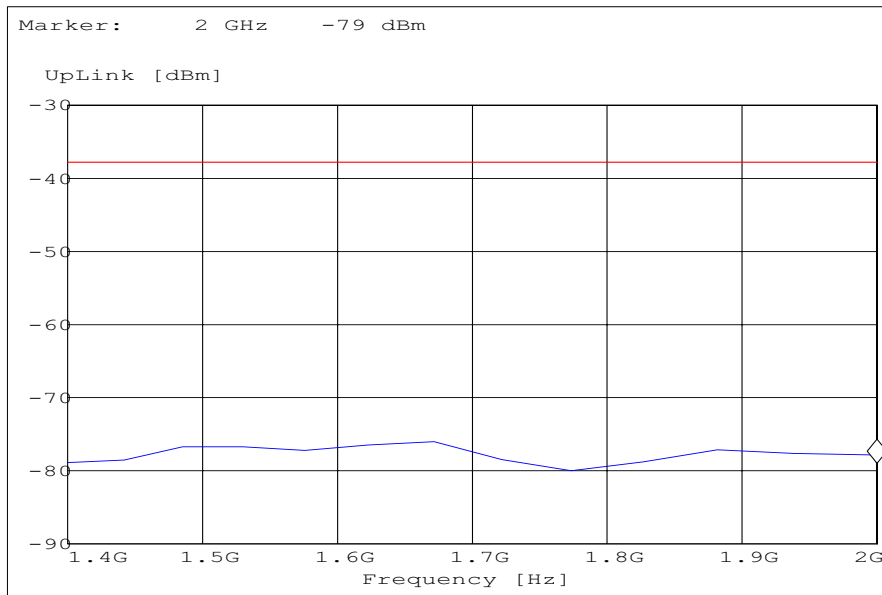
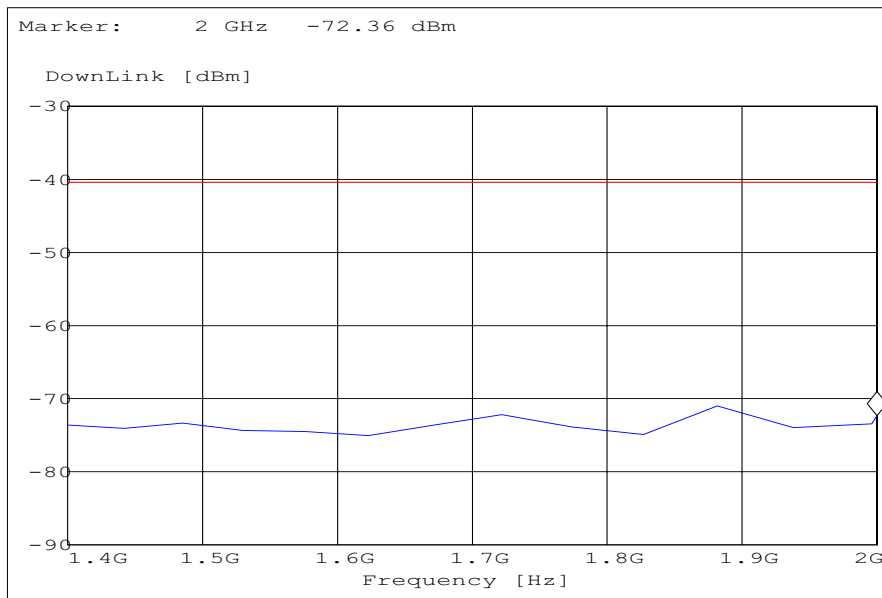
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Page 156 of 209



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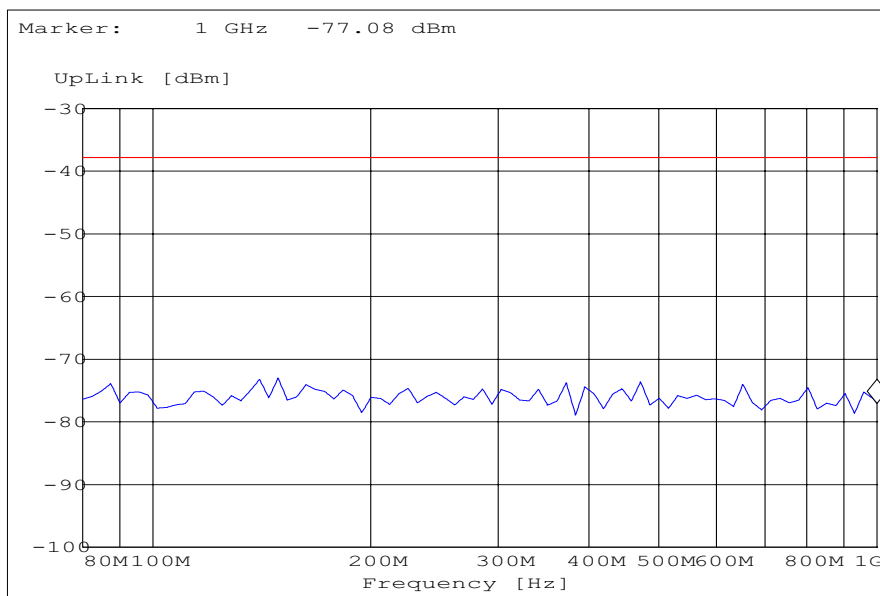
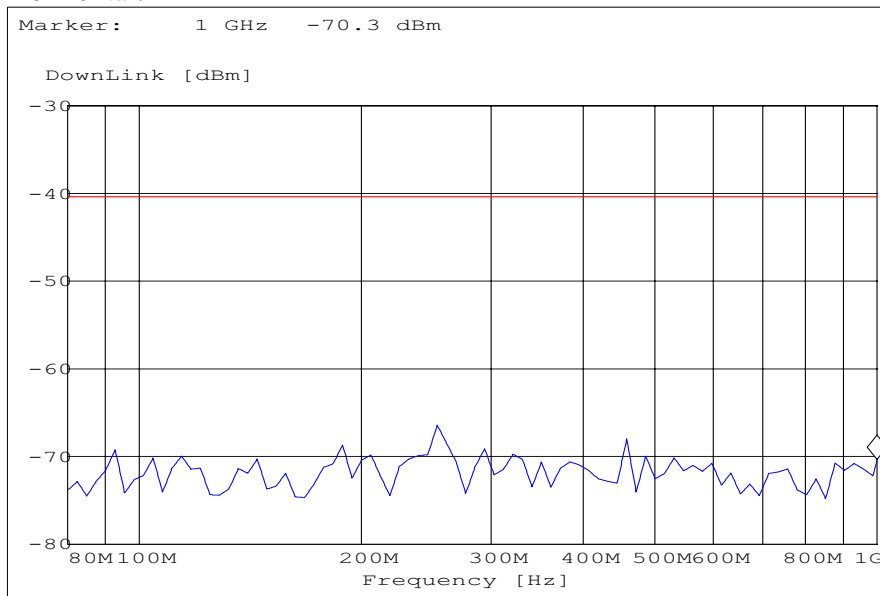
Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
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Report No.: SHEMO051200623IT
Page 157 of 209

Power Supply8:

GSM 850 charging with adaptor:

Horizontal:

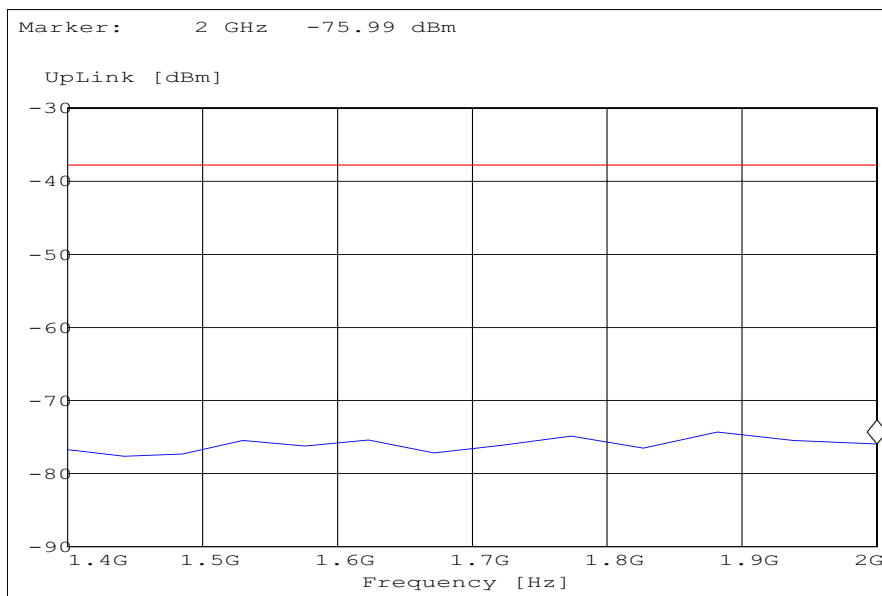
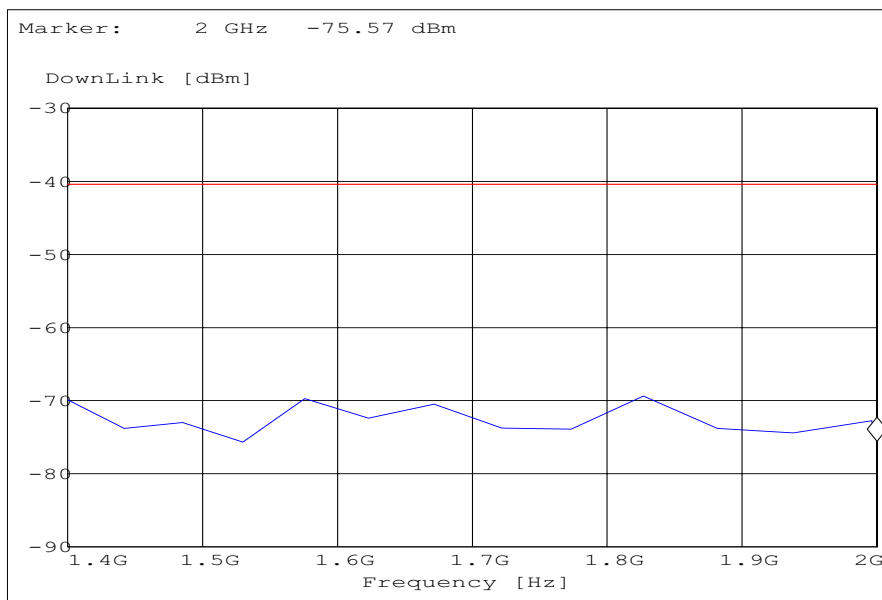


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Fax: +86 (0) 21 5450 0954
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Report No.: SHEMA0051200623IT
Page 158 of 209



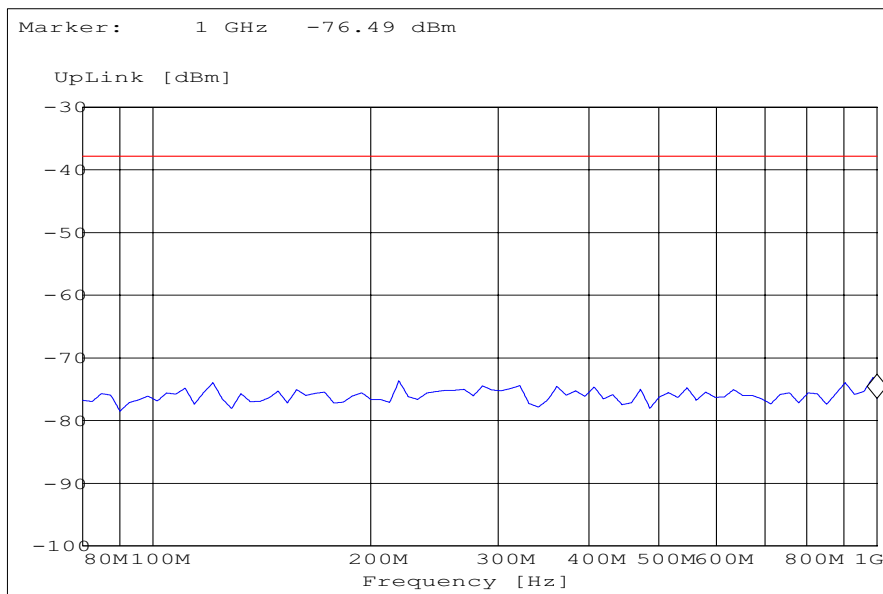
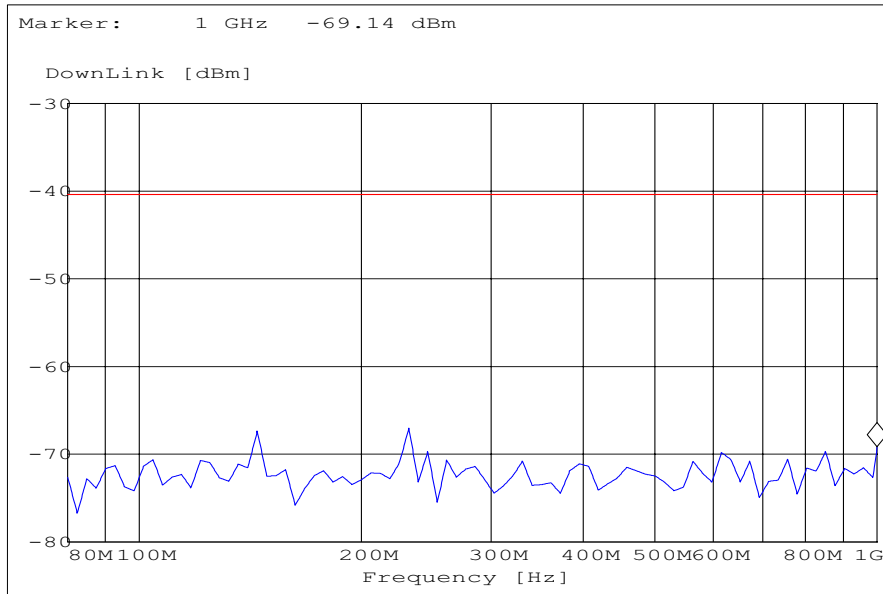
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Fax: +86 (0) 21 5450 0954
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Report No.: SHEMO051200623IT
Page 159 of 209

Vertical:

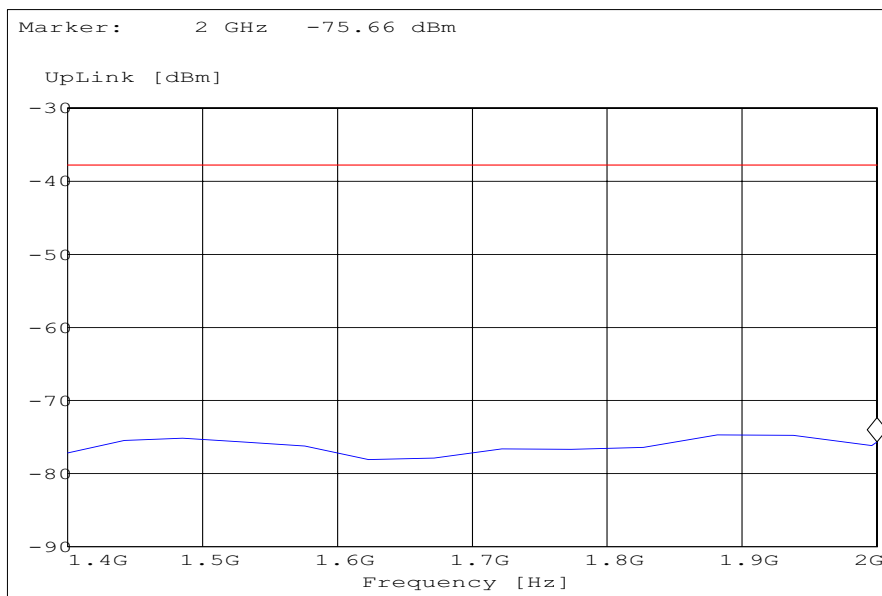
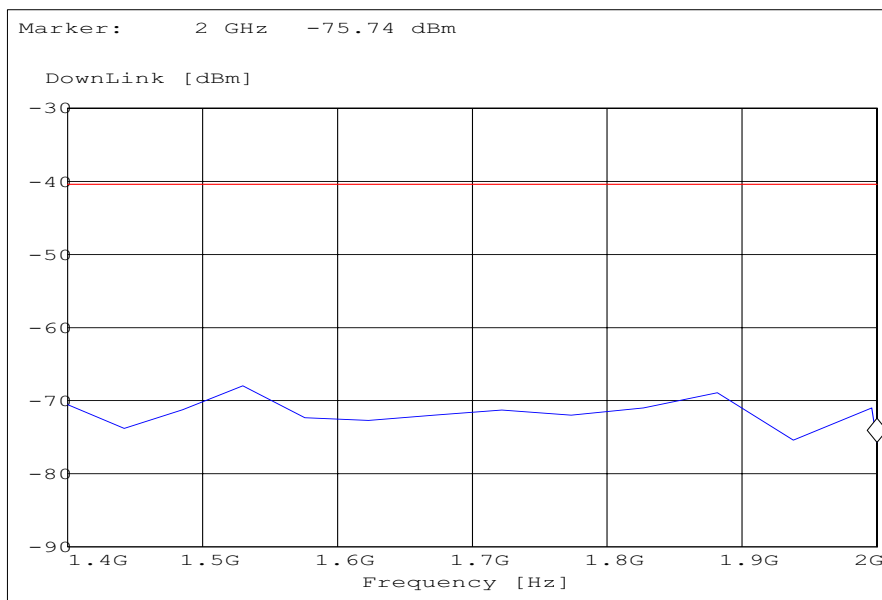


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Report No.: SHEMO051200623IT
Page 160 of 209



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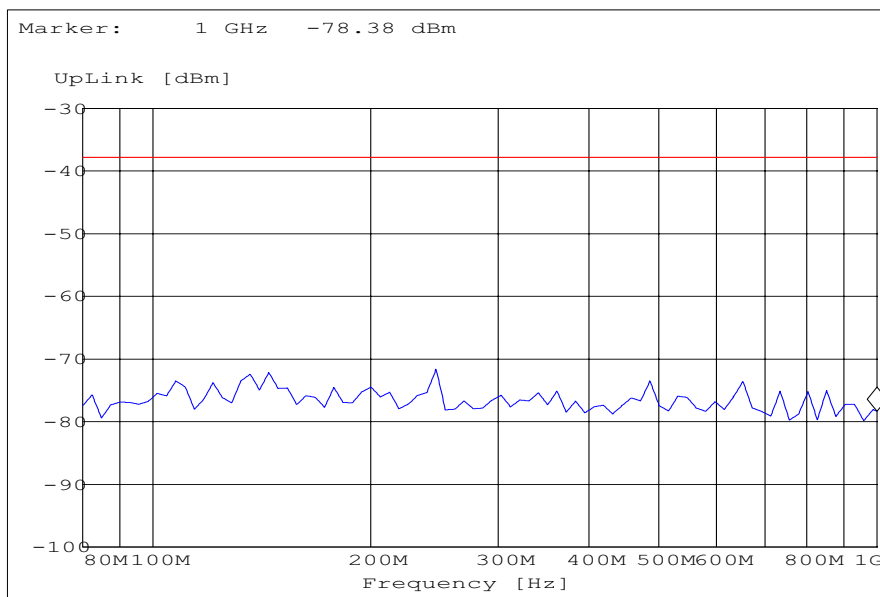
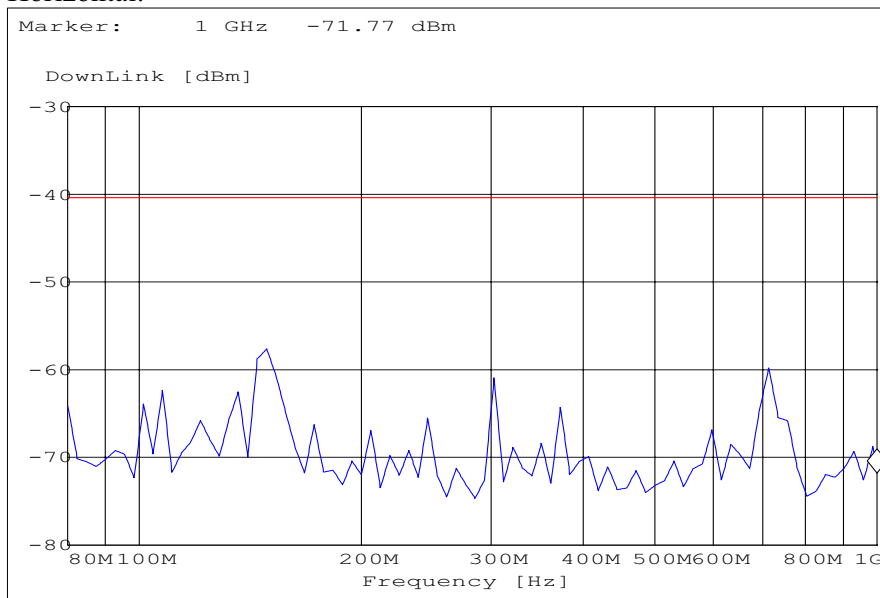
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Report No.: SHEMO051200623IT
Page 161 of 209

PCS 1900 charging with adaptor:

Horizontal:

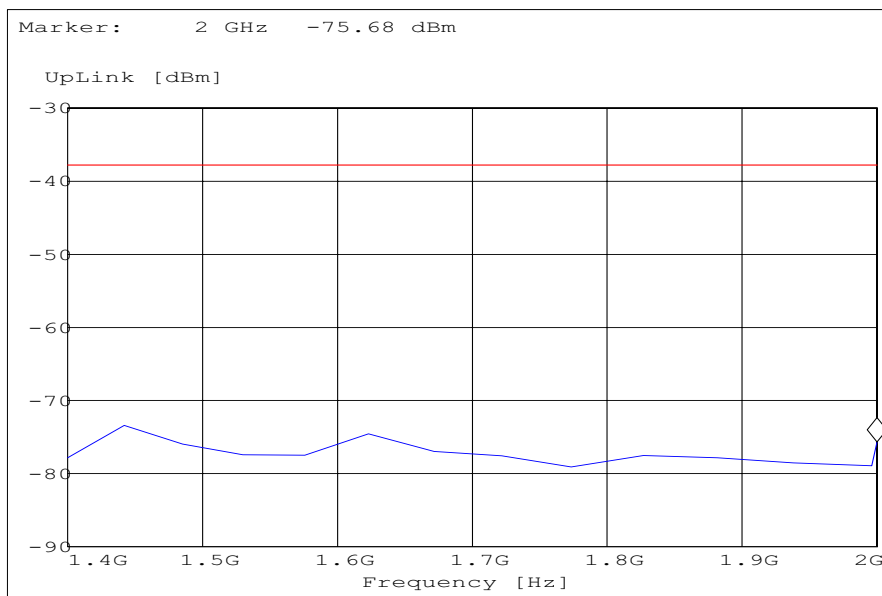
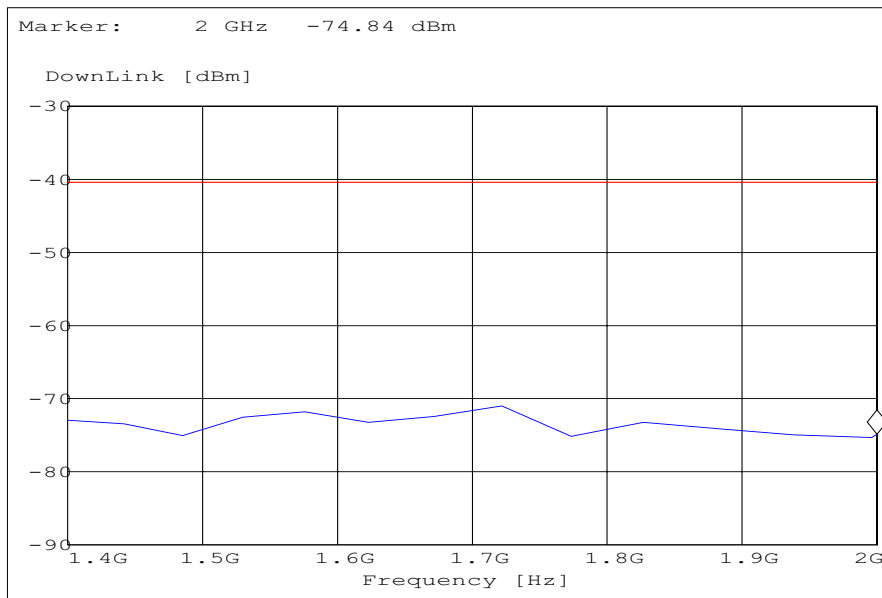


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Report No.: SHEMO051200623IT
Page 162 of 209



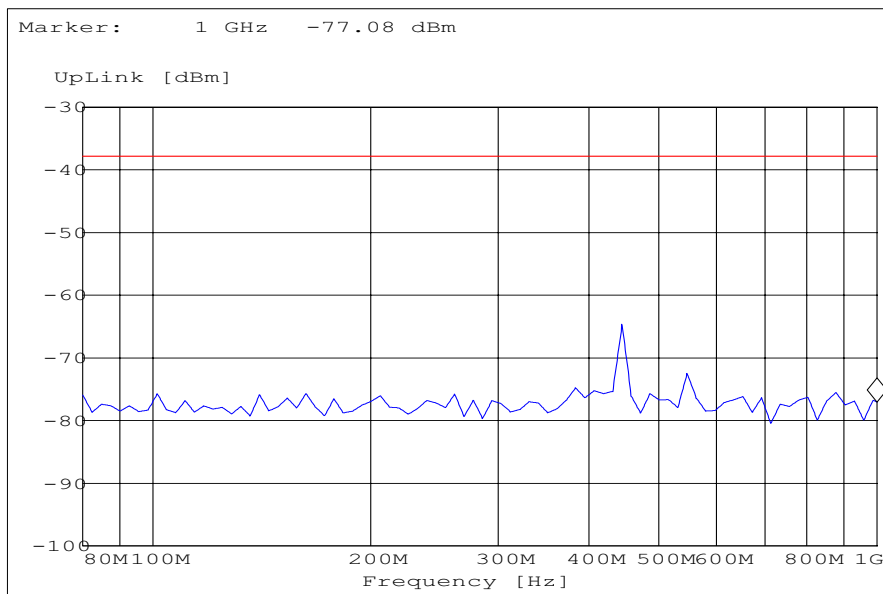
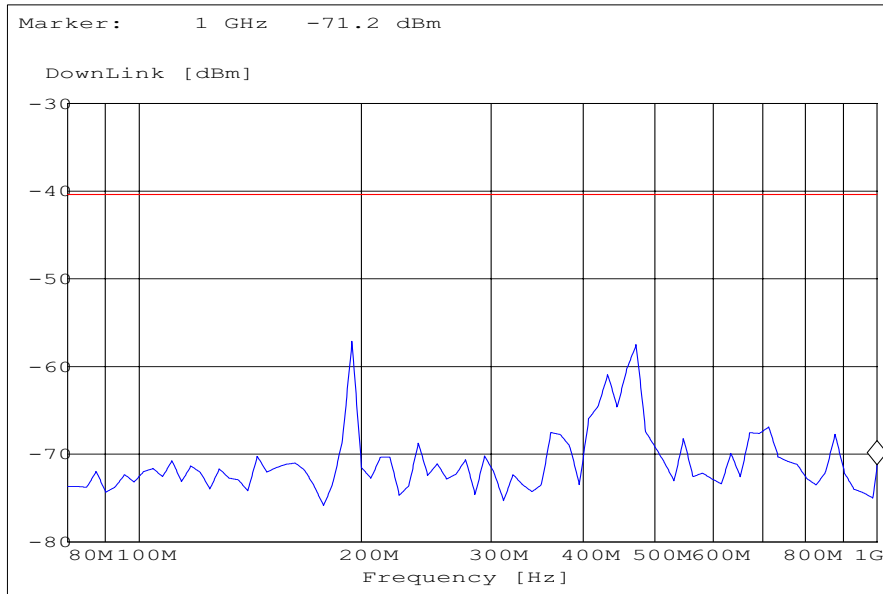
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Report No.: SHEMA051200623IT
Page 163 of 209

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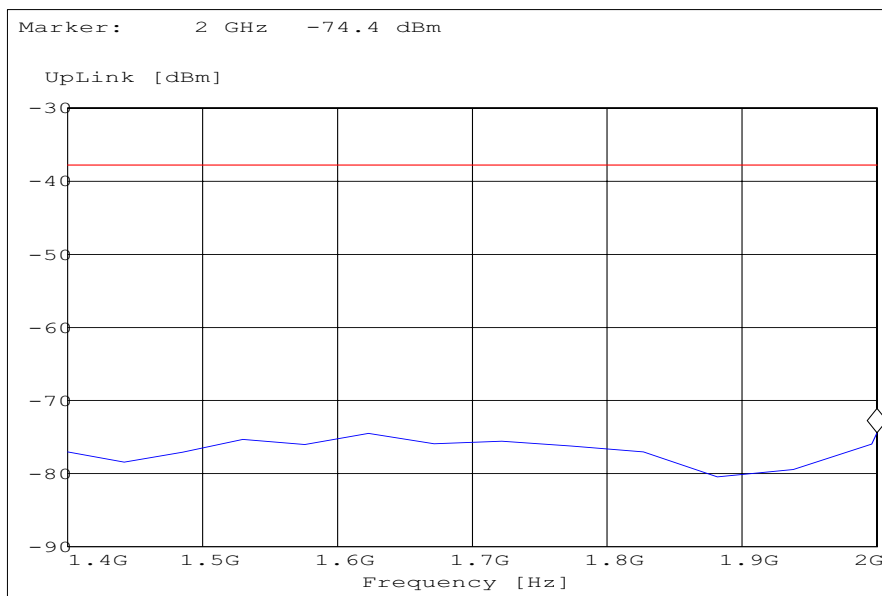
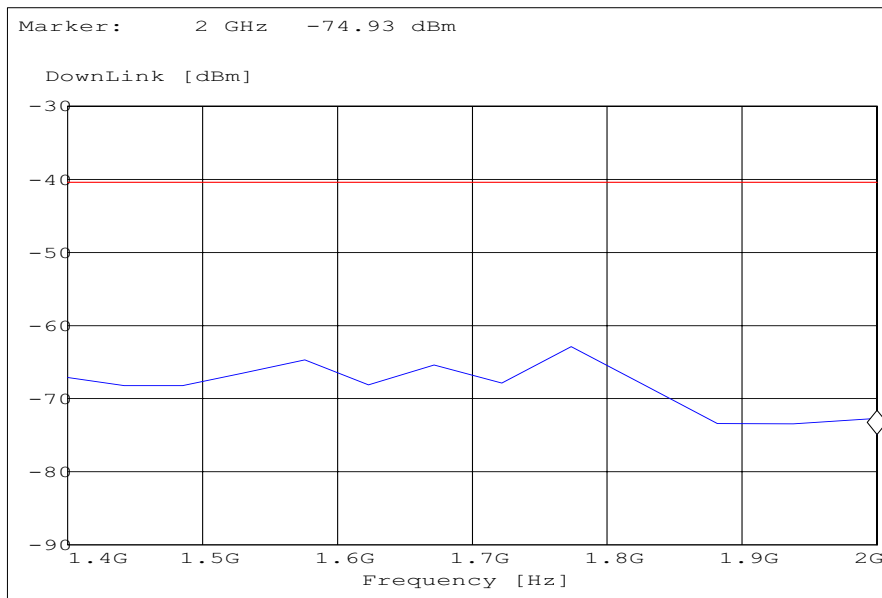


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Report No.: SHEMA0051200623IT
Page 164 of 209



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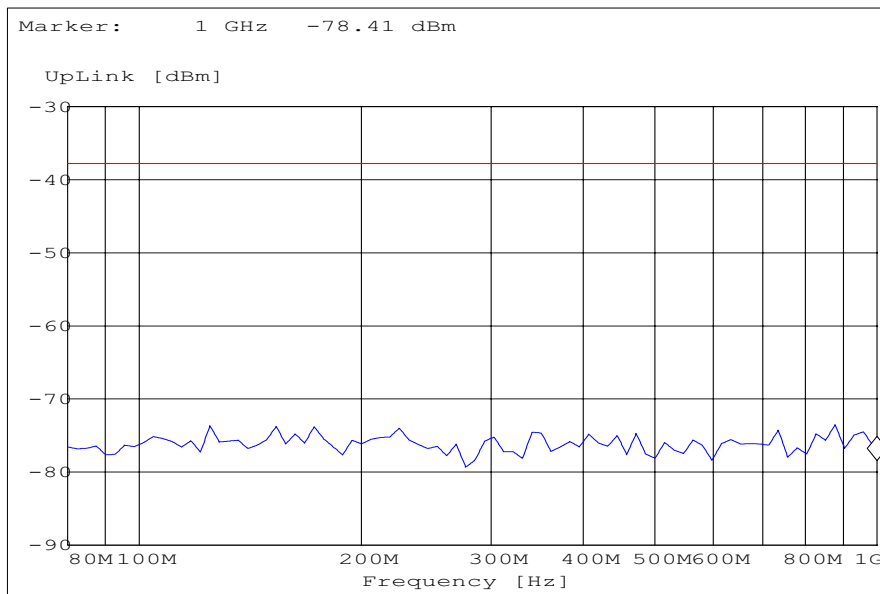
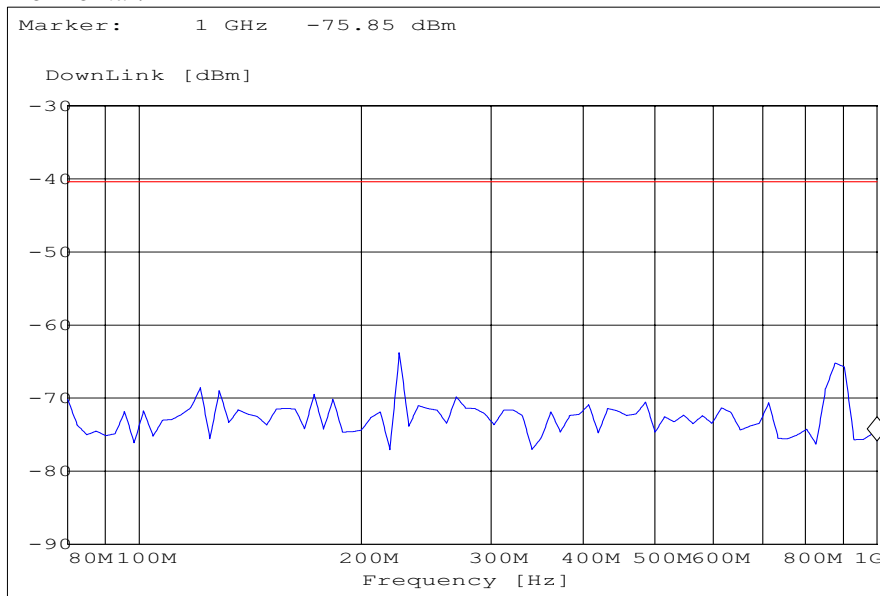
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Fax: +86 (0) 21 5450 0954
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Report No.: SHEMO051200623IT
Page 165 of 209

Power Supply9:

GSM 850 charging with adaptor:

Horizontal:

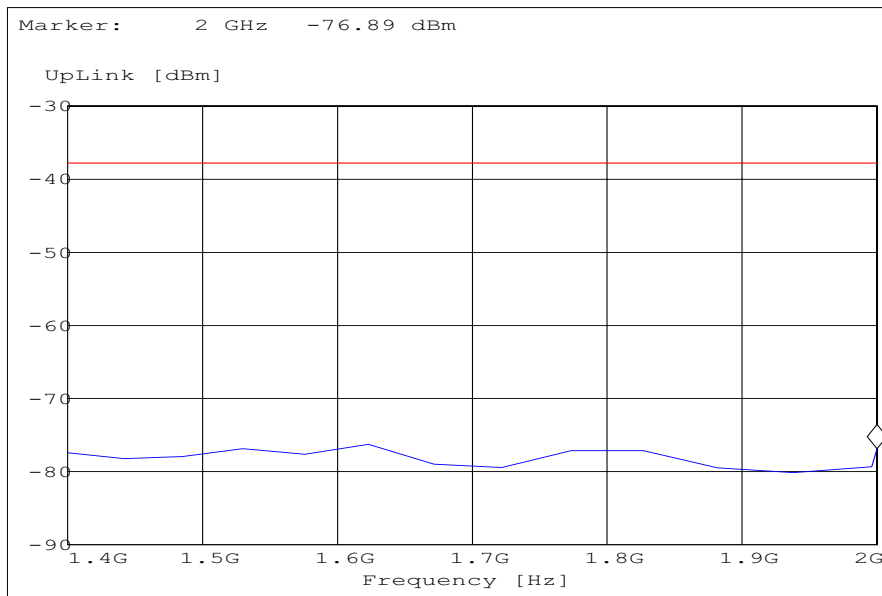
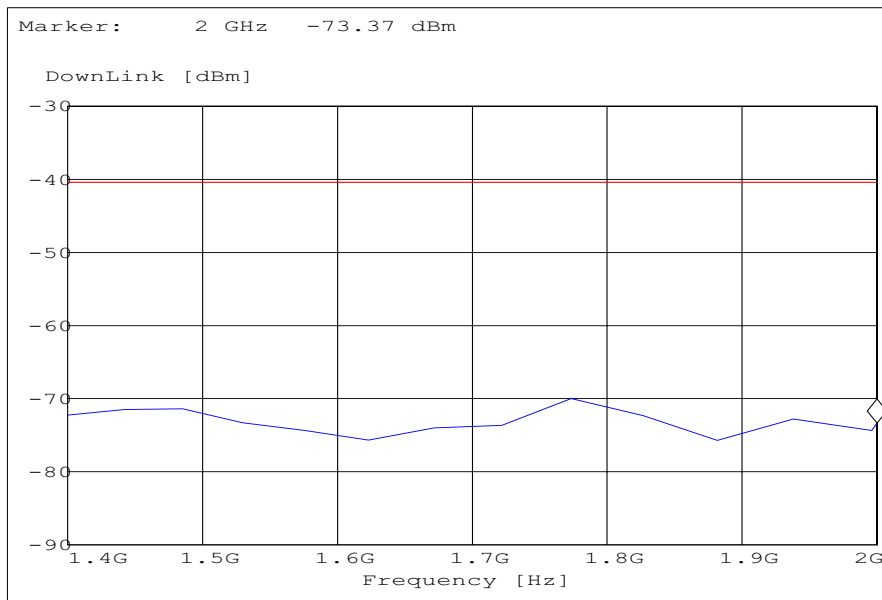


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Report No.: SHEMO051200623IT
Page 166 of 209



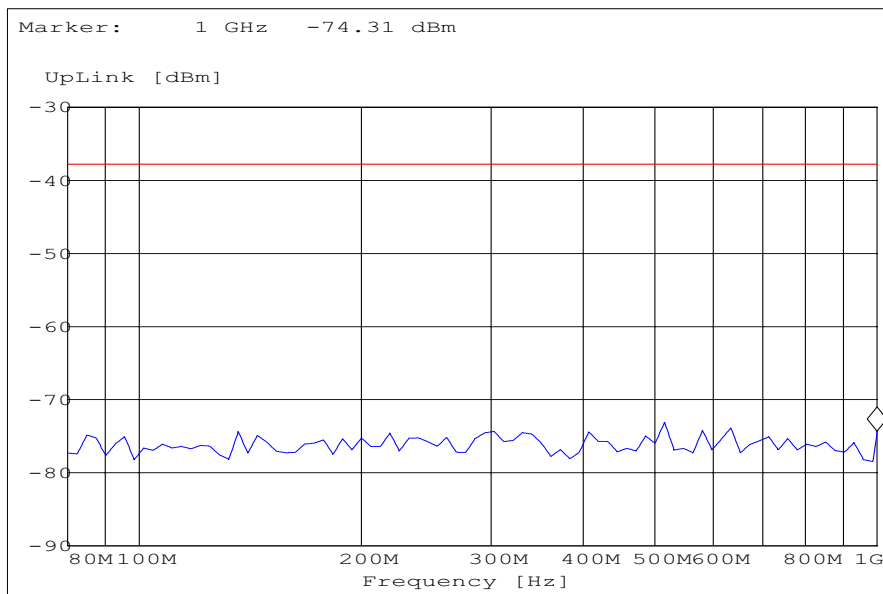
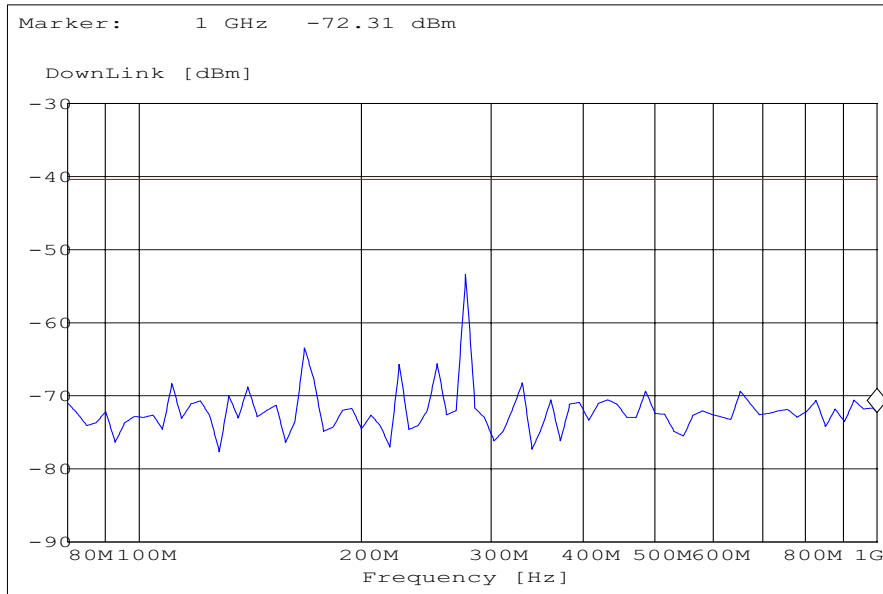
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Report No.: SHEMA051200623IT
Page 167 of 209

Vertical:

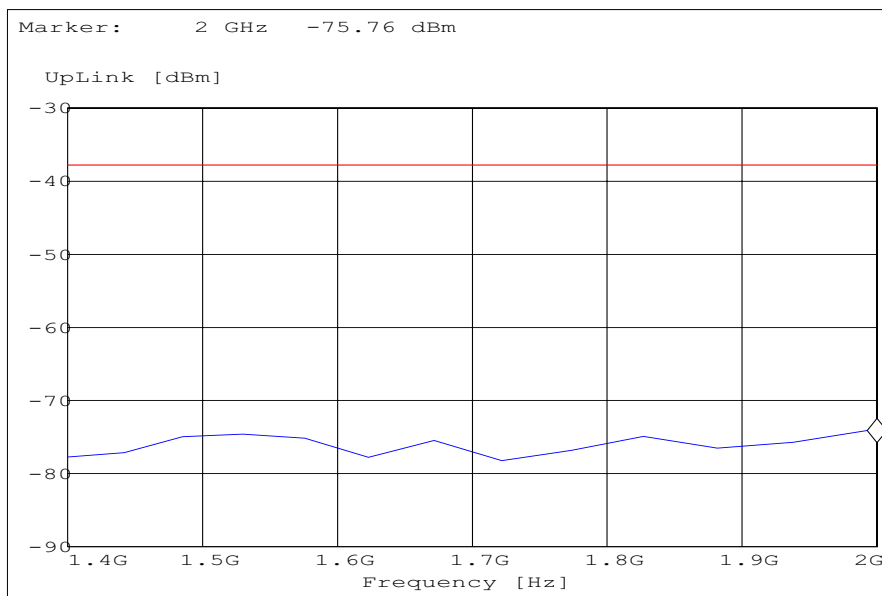
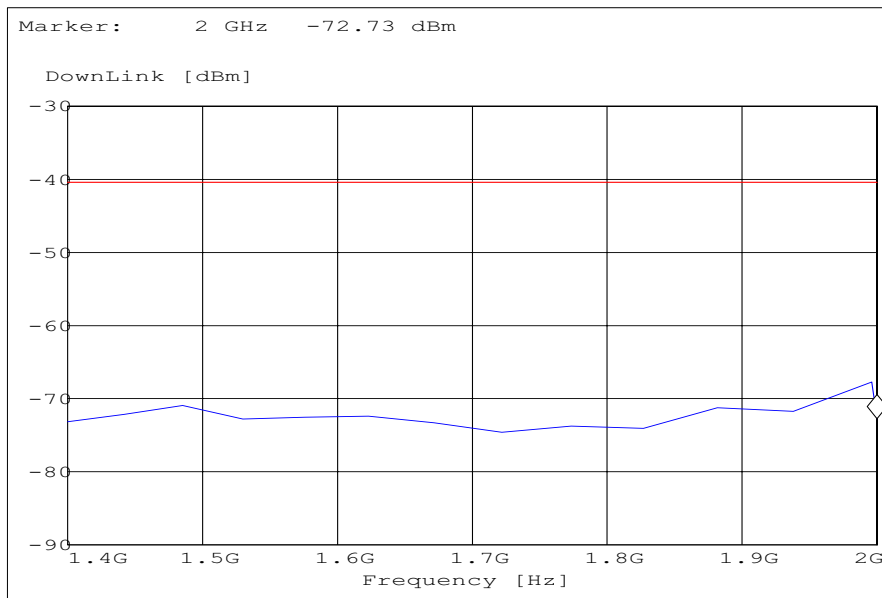


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Report No.: SHEMO051200623IT
Page 168 of 209



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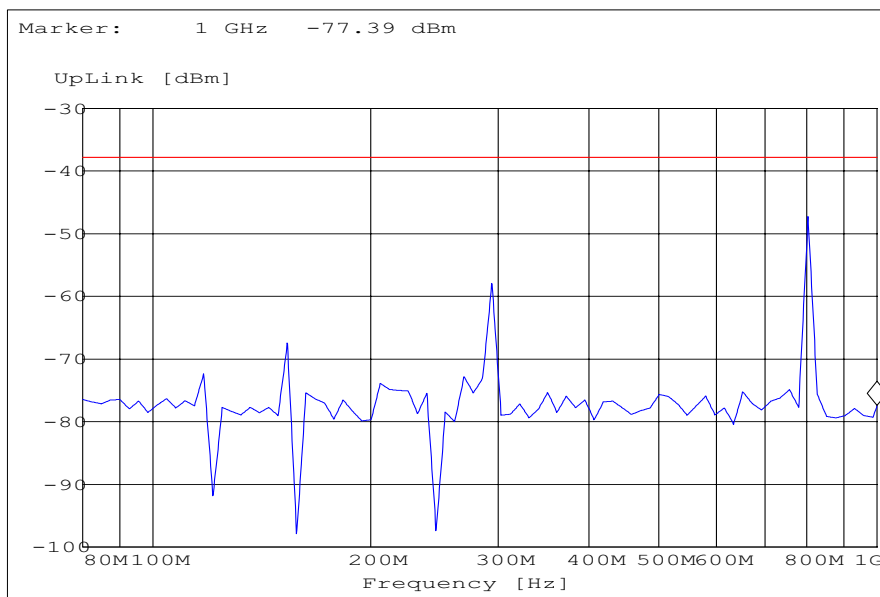
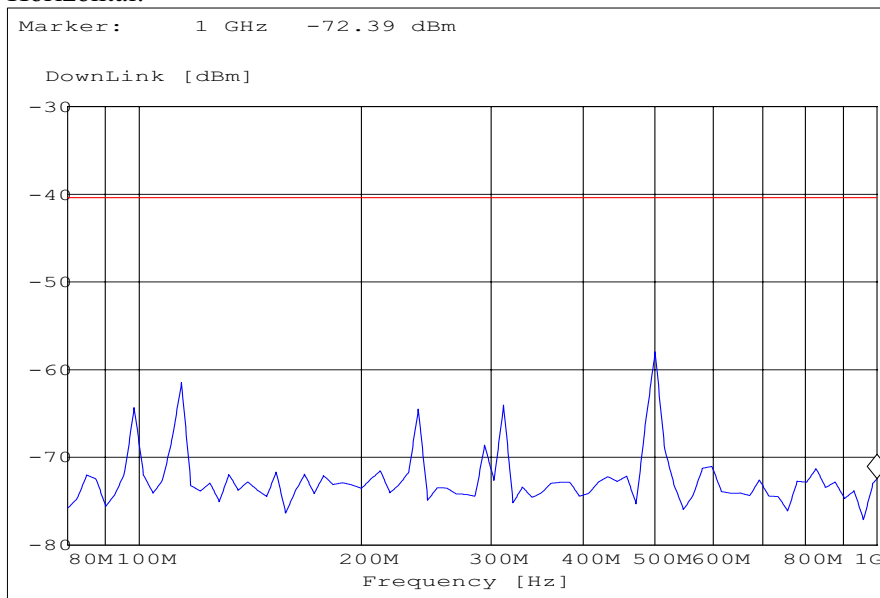
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Report No.: SHEMO051200623IT
Page 169 of 209

PCS 1900 charging with adaptor:

Horizontal:

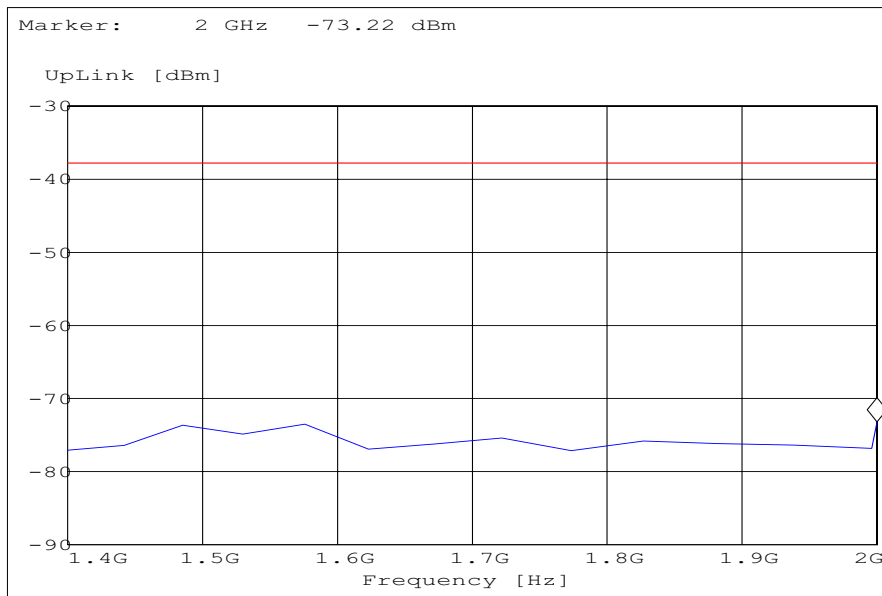
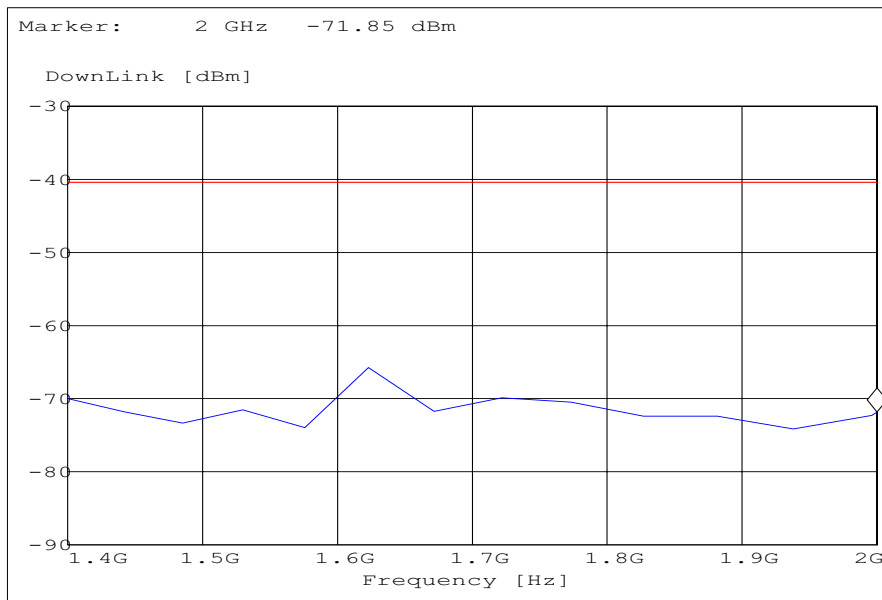


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Report No.: SHEMO051200623IT
Page 170 of 209



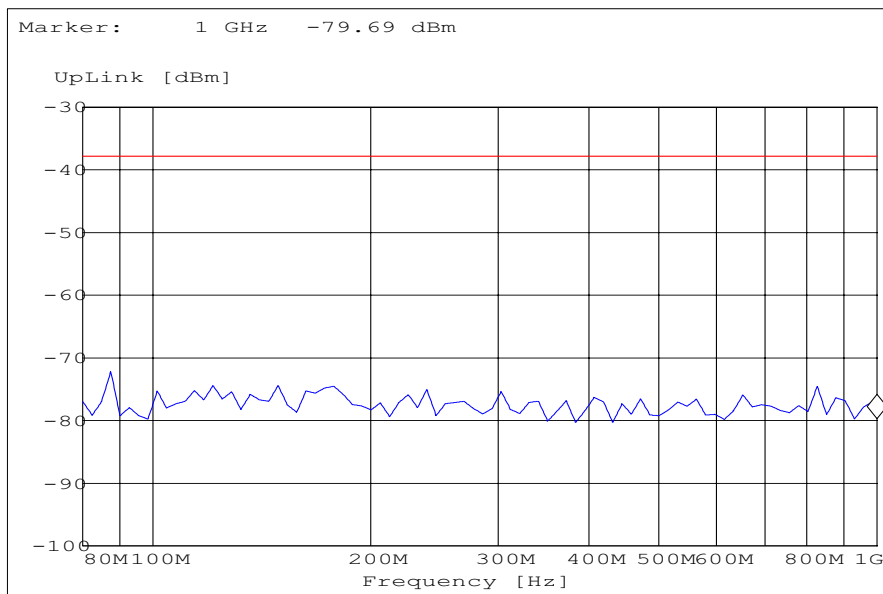
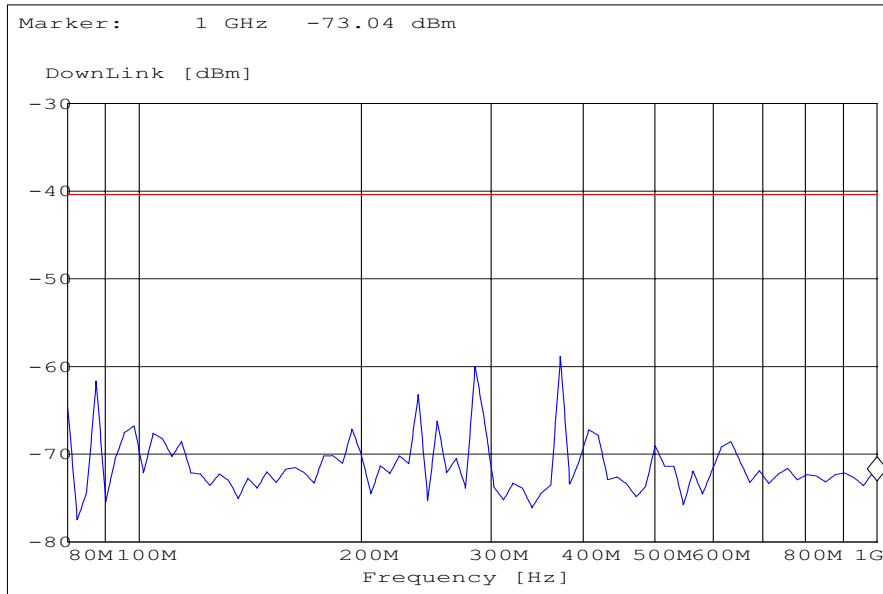
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Report No.: SHEMO051200623IT
Page 171 of 209

Vertical:

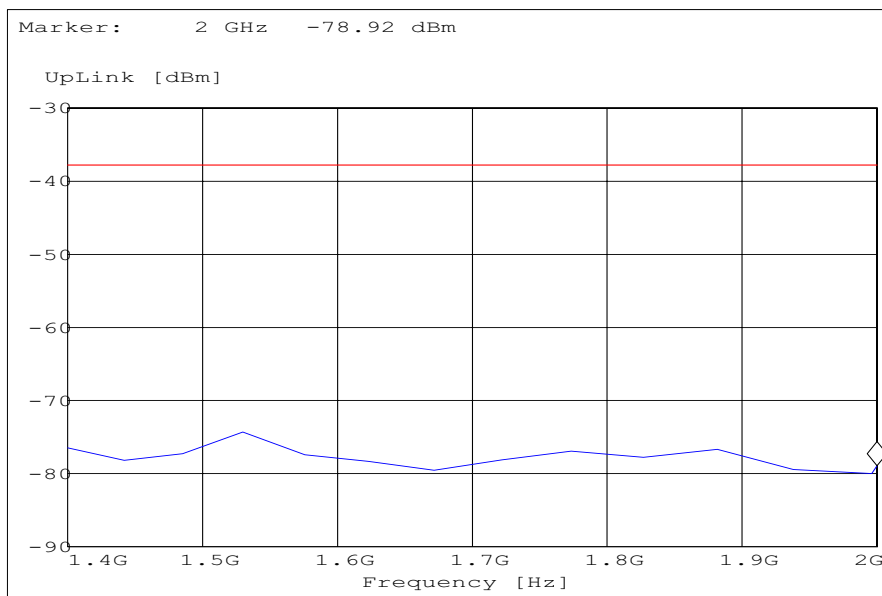
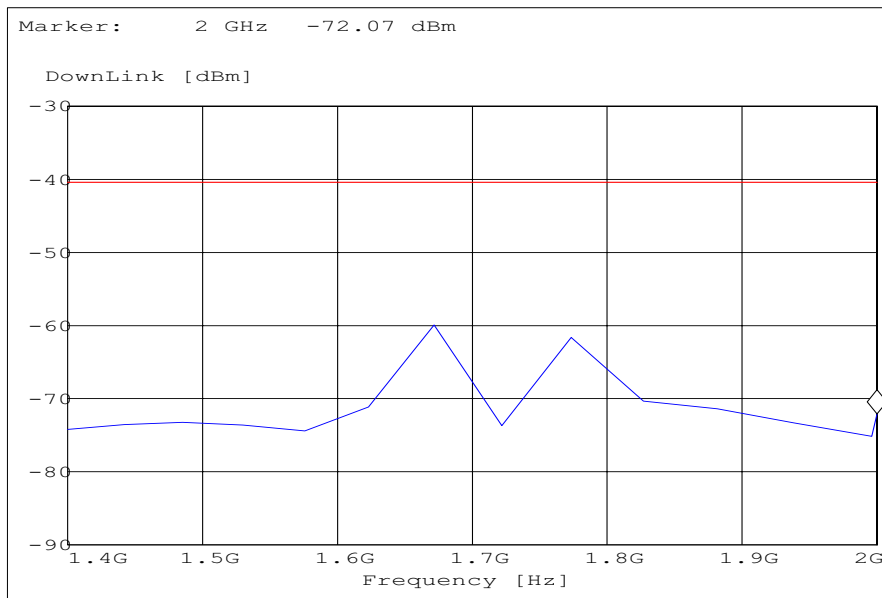


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Report No.: SHEMO051200623IT
Page 172 of 209



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Report No.: SHEMO051200623IT
Page 173 of 209

5.3 ESD

Test Requirement:	ETSI EN 301 489-1 V1.4.1 (2002-08) 9.3		
Test Method:	EN61000-4-2		
Test Date:	December 26, 2005		
Discharge Impedance:	330 Ω / 150 pF		
Discharge Voltage:	Air Discharge:	$\pm 2, \pm 4, \pm 8$ kV	
	Contact Discharge:	$\pm 2, \pm 4$ kV	
Polarity:	Positive & Negative		
Number of Discharge:	Minimum 10 times at each test point		
Discharge Mode:	Single Discharge		
Criteria	ETSI EN 301 489-7 V1.2.1 (2002-08) 6.2&6.4		
Discharge Period:	1 second minimum		

5.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar

EUT Test EUT is the in the allocated channel mode 850/1900MHz with headset

Operation: or charging with adaptor or connected with PC by USB.

5.3.2 Test Results

Pass

The communication link maintained and EUT operated as intended with no loss of user control functions or stored data, as declared by the manufacturer.

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Report No.: SHEMO051200623IT
Page 174 of 209

5.4 Fast transients common mode

Test Requirement: ETSI EN 301 489-1 V1.4.1 (2002-08) 9.4
Test Method: EN61000-4-4
Test Date: December 26, 2005
Port open Voltage(line-line): Voltage 1kV
Criteria ETSI EN 301 489-7 V1.2.1 (2002-08) 6.2&6.4
Period: 12 minute and 5 second minimum

5.4.1 E.U.T. Operation

Operating Environment:
Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar
EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with
Operation: adaptor.

5.4.2 Test result

Pass

No degradation in the performance of the EUT was observed

Test Procedure			IEC 61000-4- : Part 4		
Test setup:					
U:	1000	V			
f:	5	kHz			
td:	15	ms			
tr:	300	ms			
Mode:	Asynchron				
Polarity:	Alternate				
Coupling:	L, N, L+N				
Test duration:	2	minute	Time between Tests:	1	s

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Yishan Road, Xuhui District, Shanghai, China

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Report No.: SHEMO051200623IT
Page 175 of 209

5.5 Radio frequency common mode

Test Requirement:	ETSI EN 301 489-1 V1.4.1 (2002-08) 9.5
Test Method:	EN61000-4-6
Test Date:	December 21, 2005
Frequency	150 kHz to 80 MHz
Amplitude	3 V rms unmodulated
Modulation:	80%, 1kHz Amplitude Modulation
Criteria	ETSI EN 301 489-7 V1.2.1 (2002-08) 6.1&6.3

5.5.1 E.U.T. Operation

Operating Environment:

Temperature: 2400°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar

EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with

Operation: adaptor.

5.5.2 Test Results:

Pass

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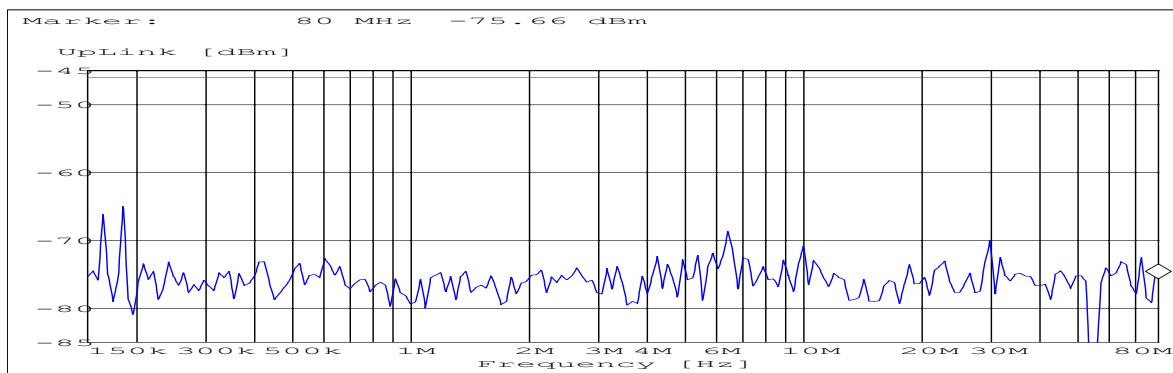
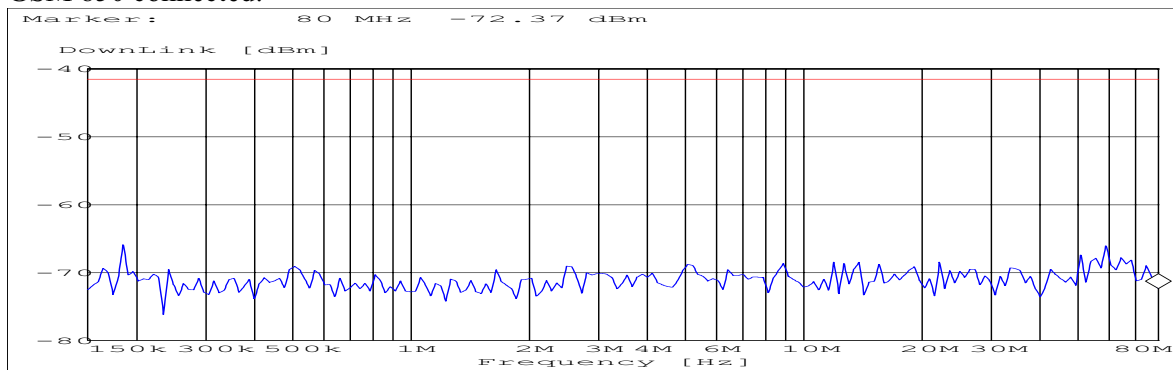
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Report No.: SHEMO051200623IT
Page 176 of 209

Power Supply1:

GSM 850 connected:



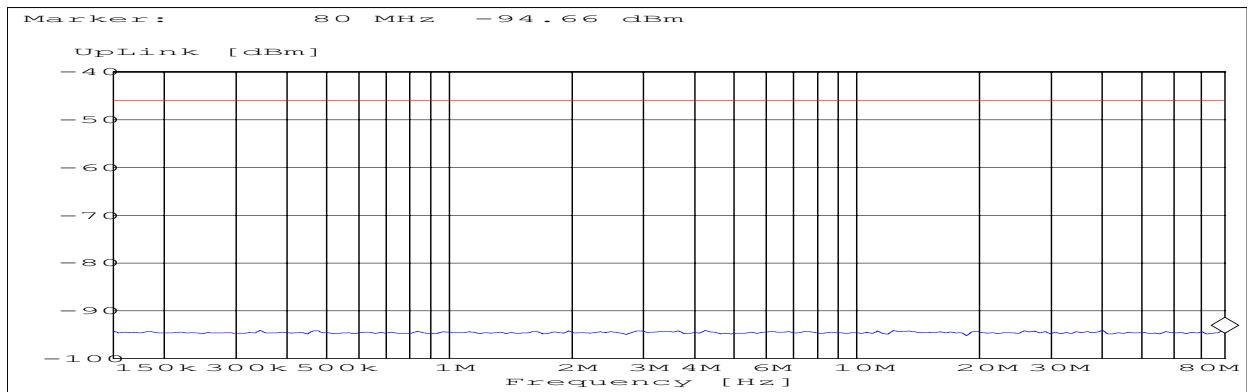
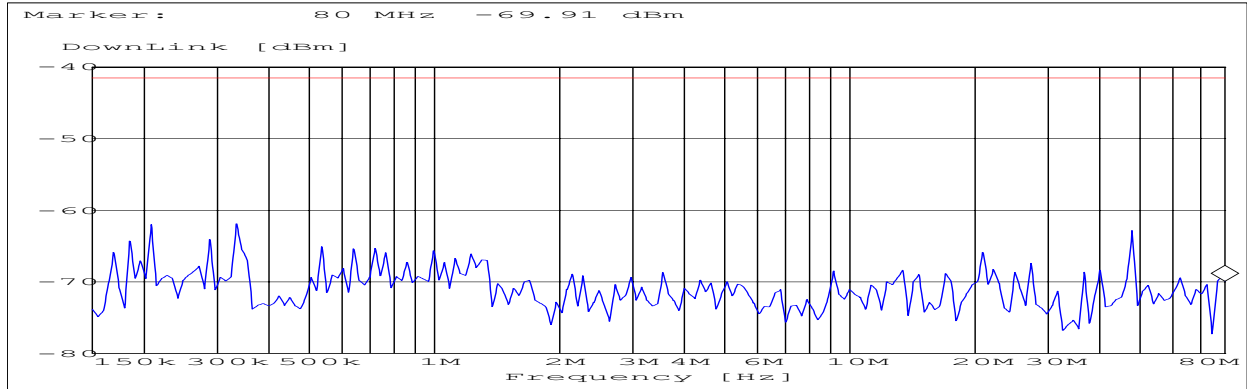
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Report No.: SHEMO051200623IT
Page 177 of 209

PCS 1900 connected:



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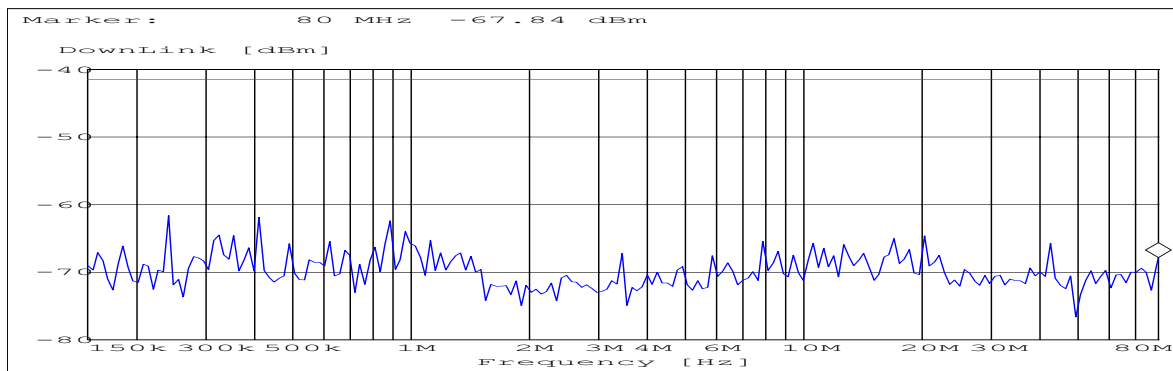
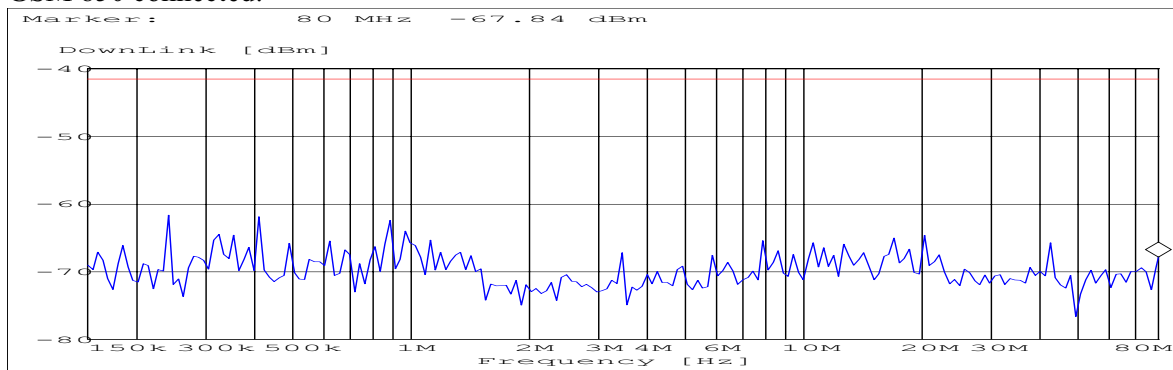
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Report No.: SHEMO051200623IT
Page 178 of 209

Power Supply2:

GSM 850 connected:



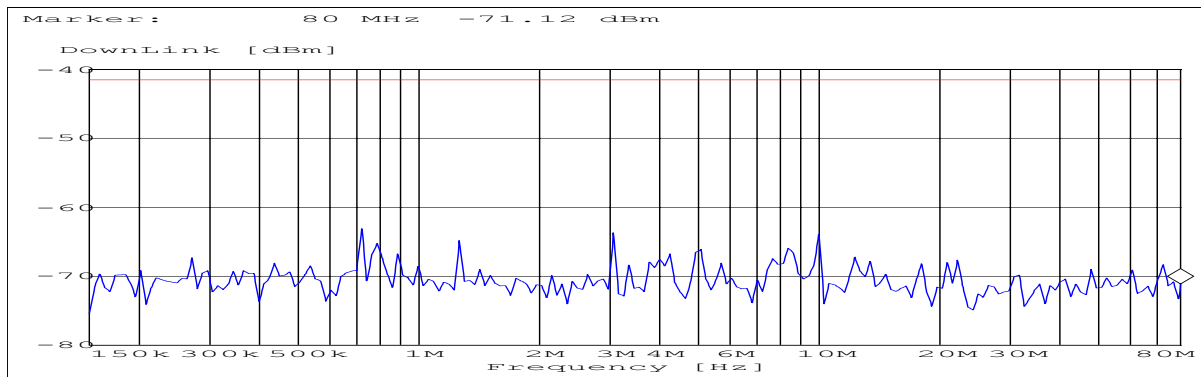
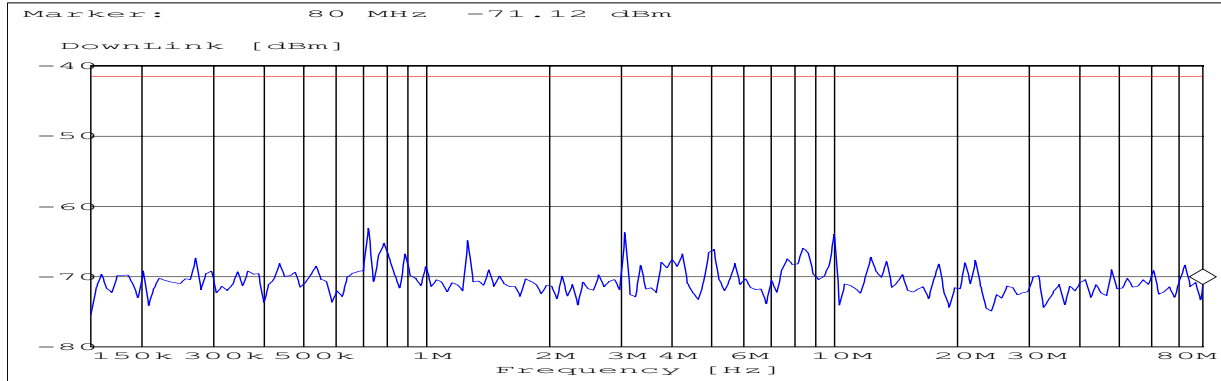
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Report No.: SHEMO051200623IT
Page 179 of 209

PCS 1900 connected:



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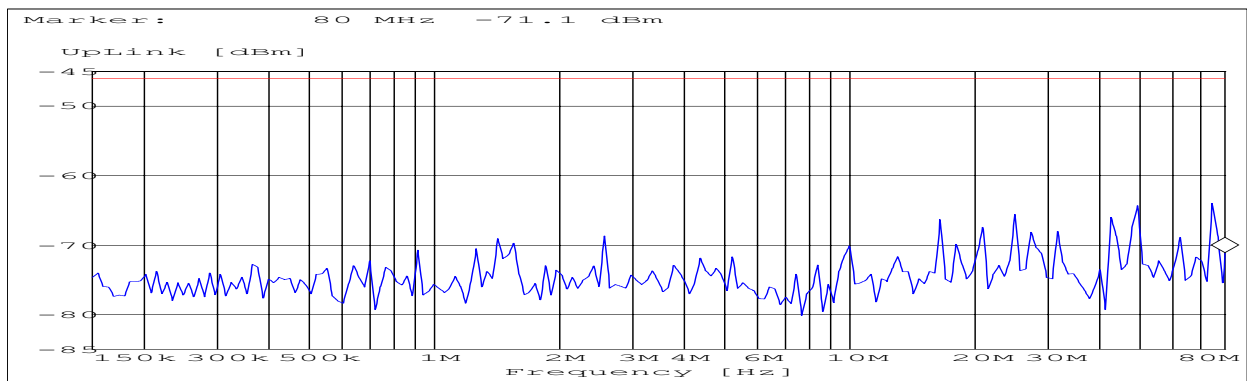
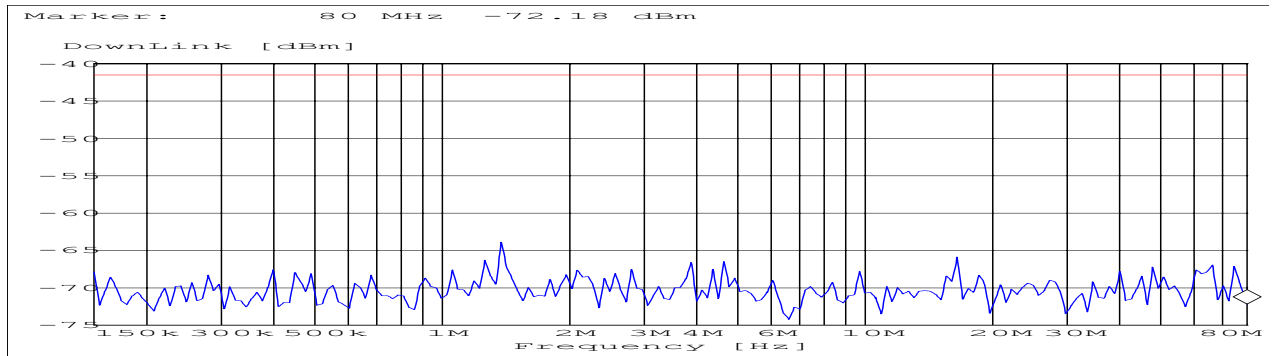
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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 180 of 209

Power Supply3:

GSM 850 connected:



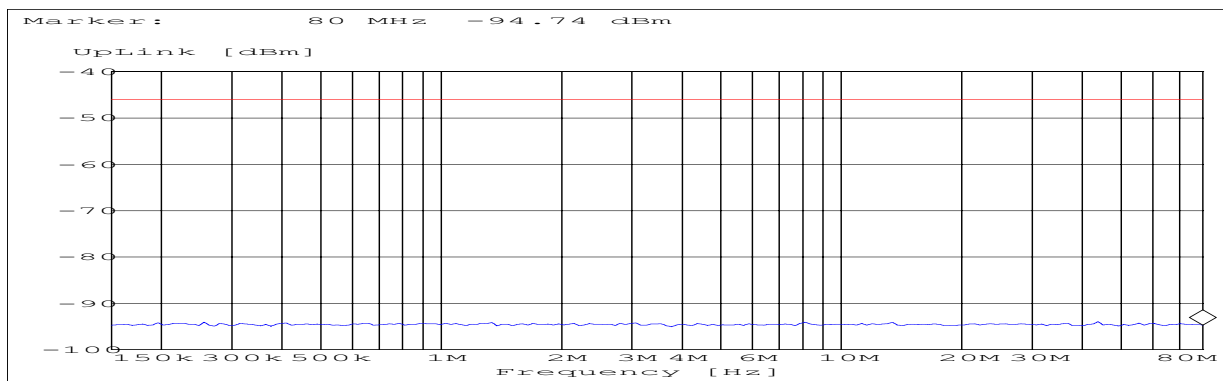
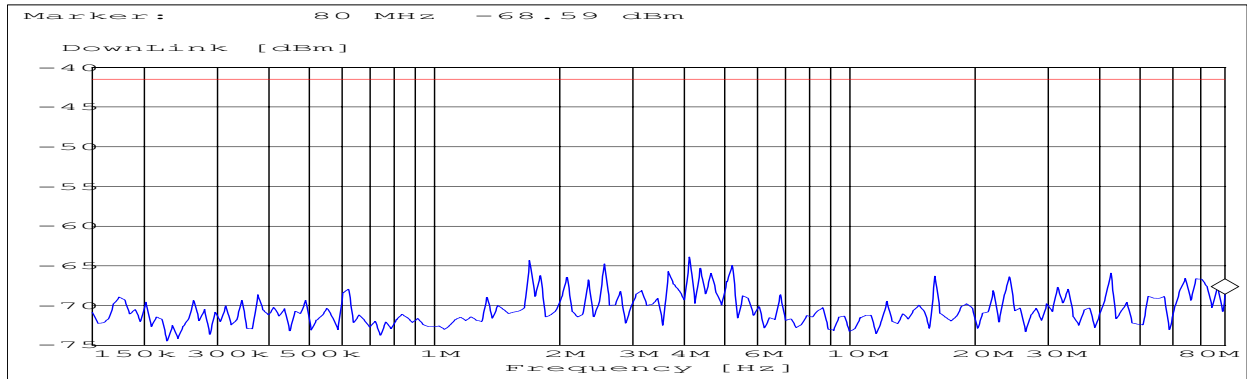
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Fax: +86 (0) 21 5450 0954
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Report No.: SHEMO051200623IT
Page 181 of 209

PCS 1900 connected:



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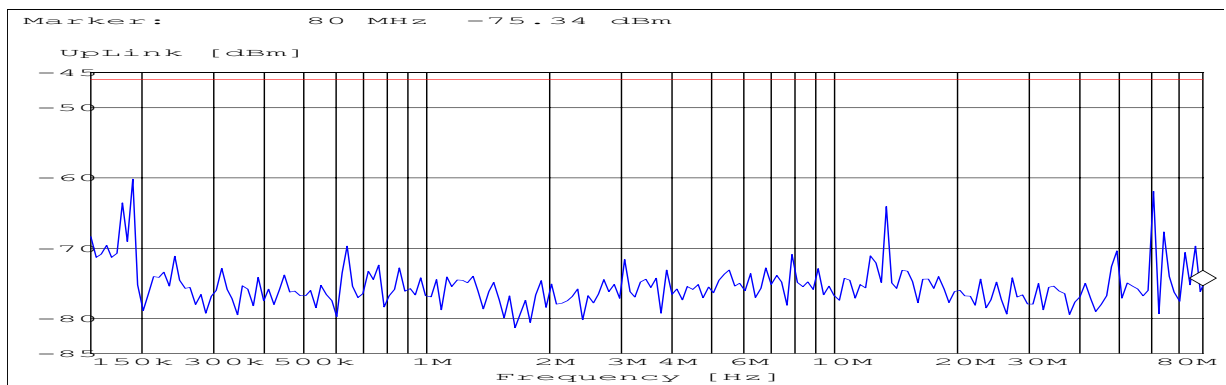
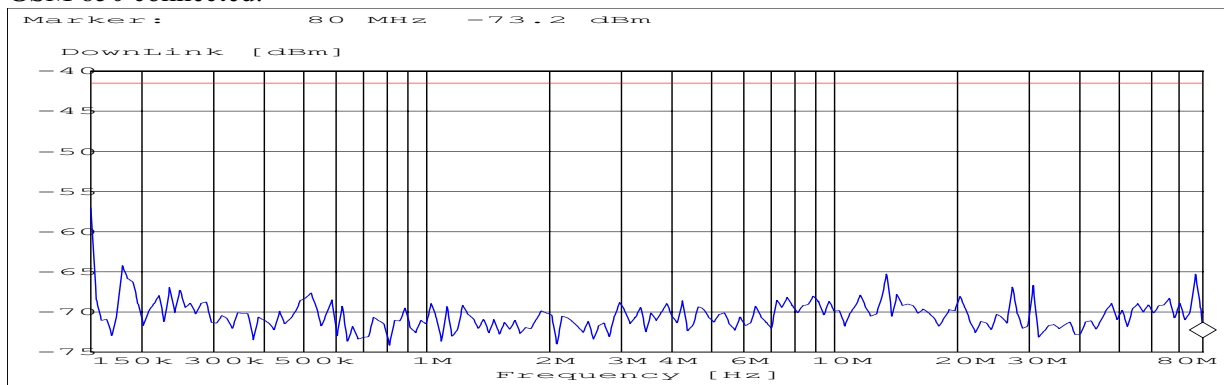
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Report No.: SHEMA051200623IT
Page 182 of 209

Power Supply4:

GSM 850 connected:



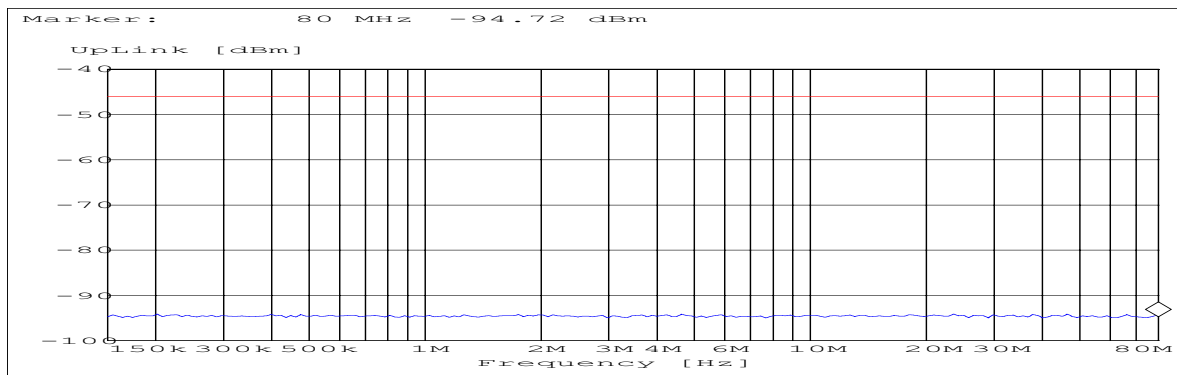
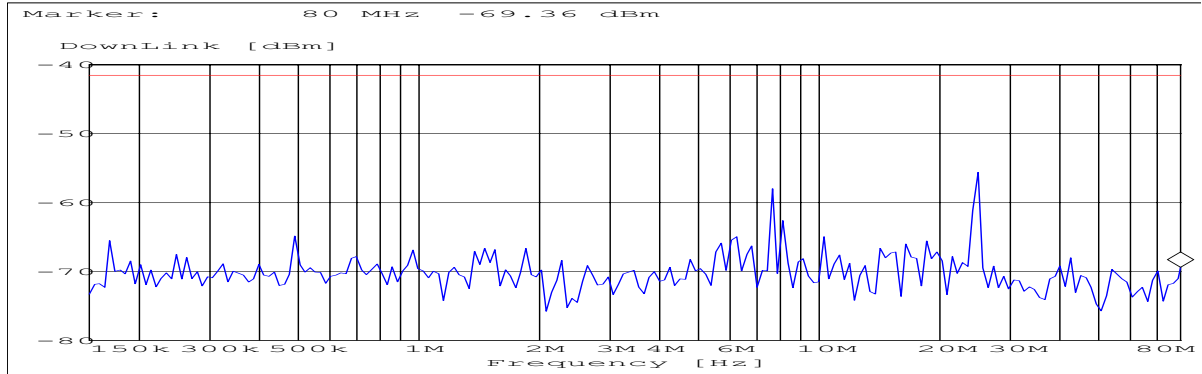
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Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
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Report No.: SHEMA0051200623IT
Page 183 of 209

PCS 1900 connected:



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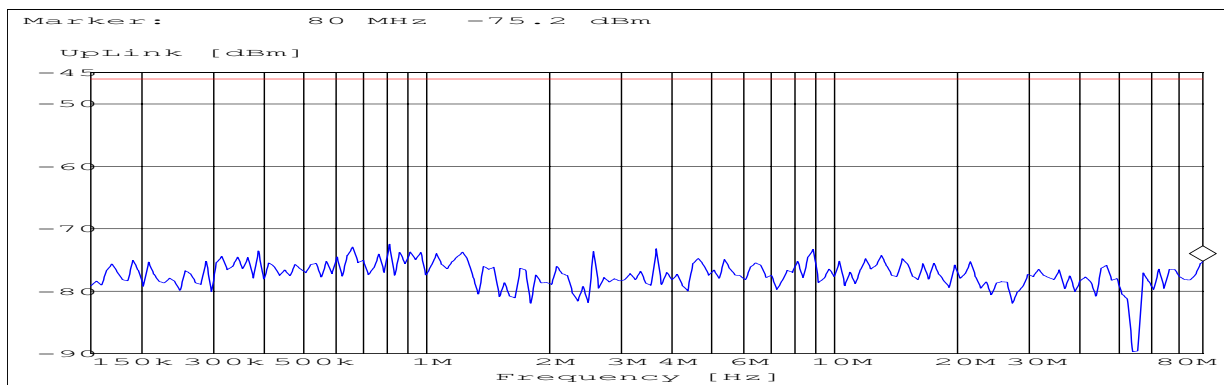
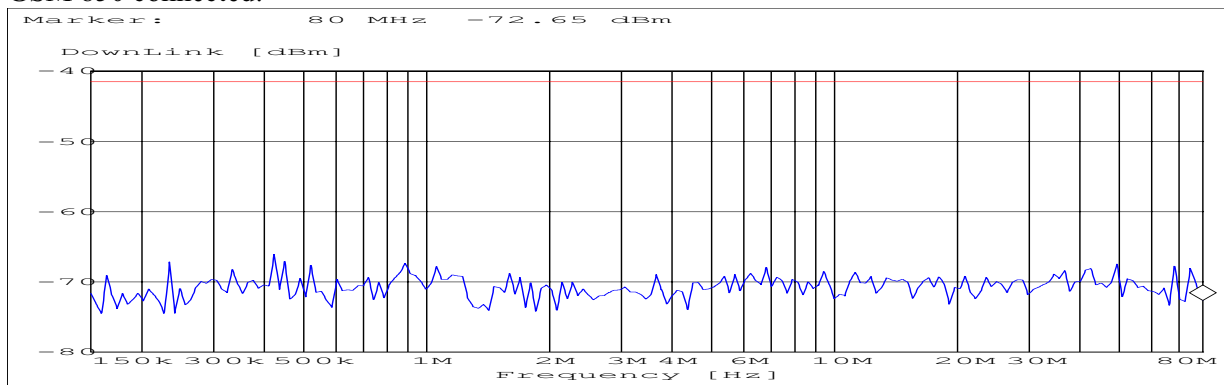
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 184 of 209

Power Supply5:

GSM 850 connected:



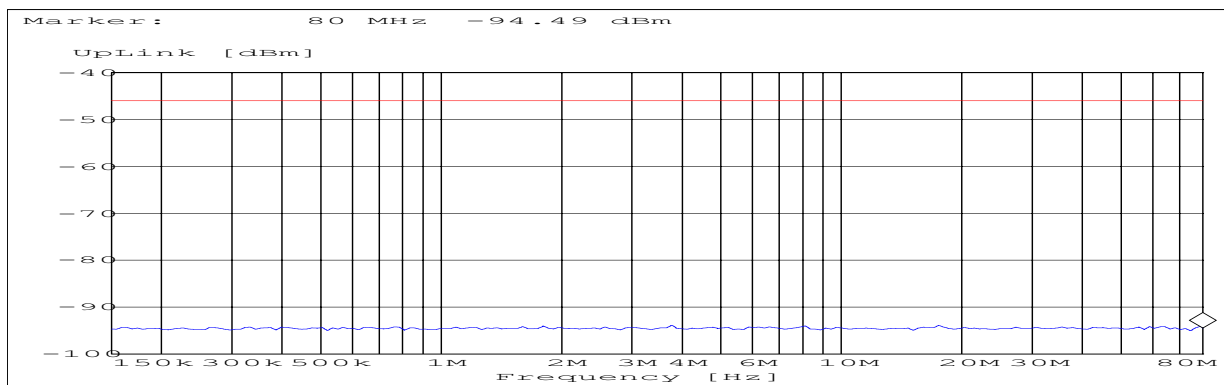
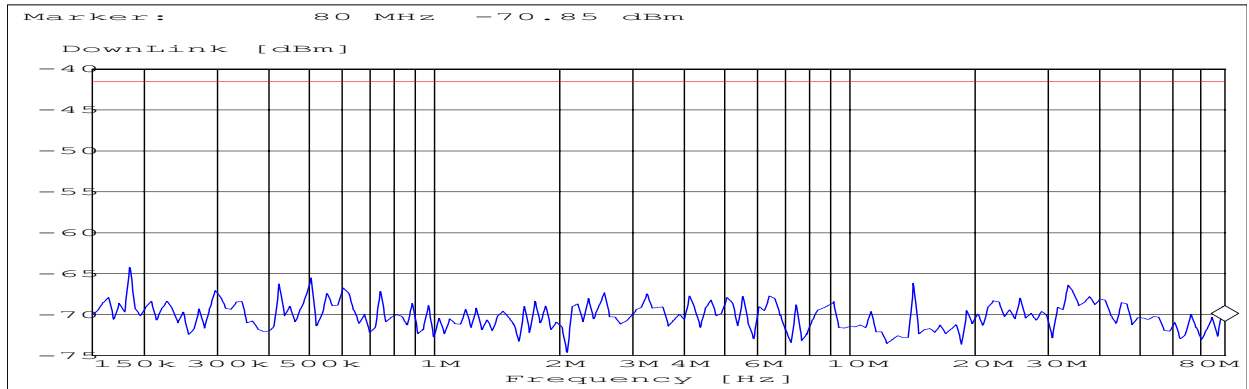
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Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

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Page 185 of 209

PCS 1900 connected:



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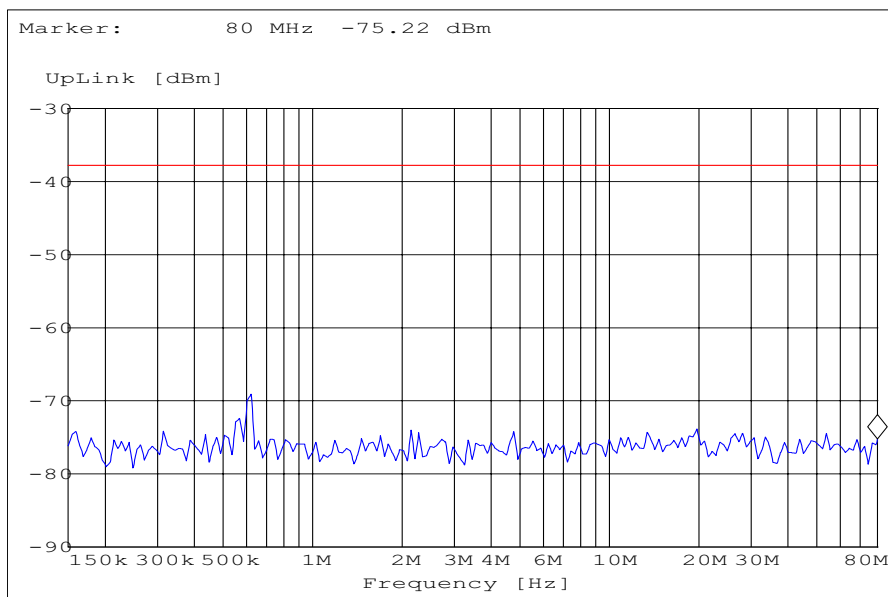
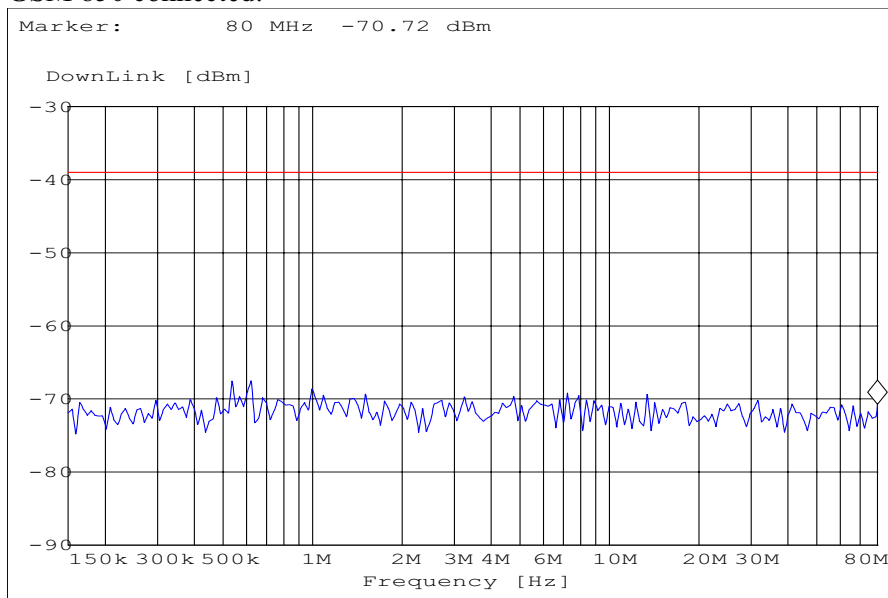
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 186 of 209

Power Supply7:

GSM 850 connected:



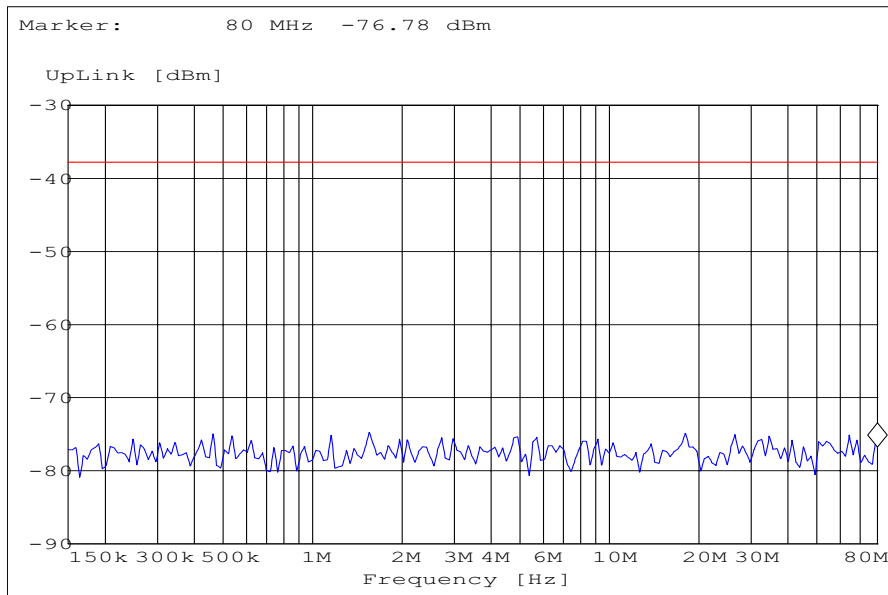
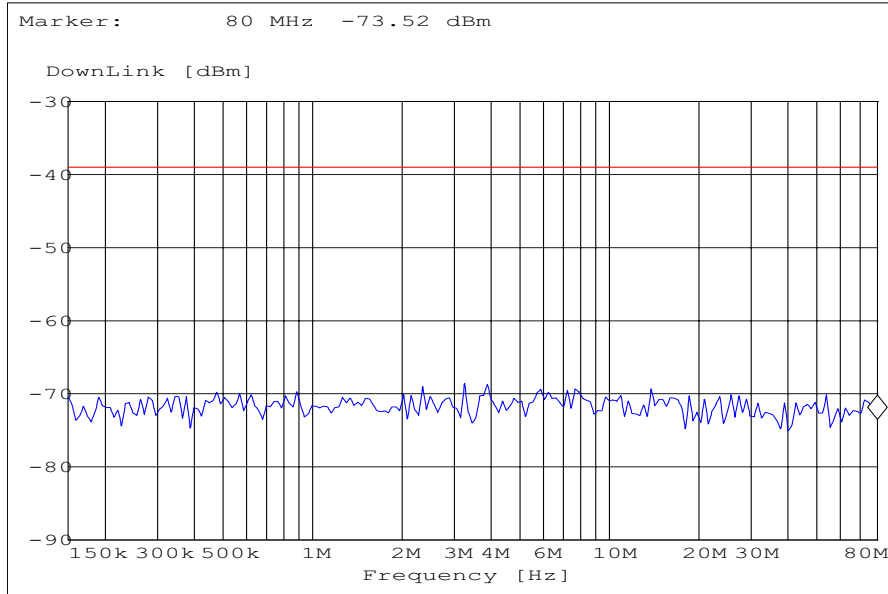
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Fax: +86 (0) 21 5450 0954
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Page 187 of 209

PCS 1900 connected:



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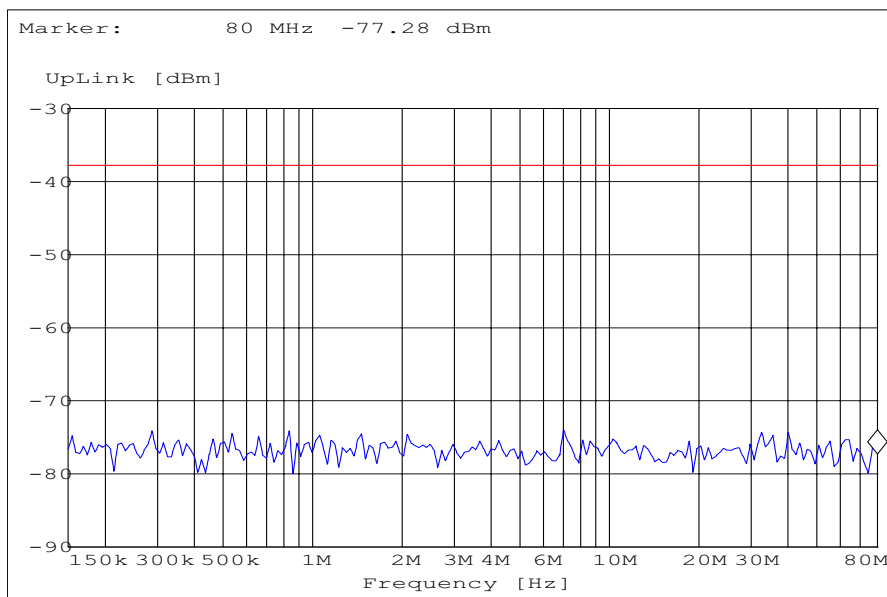
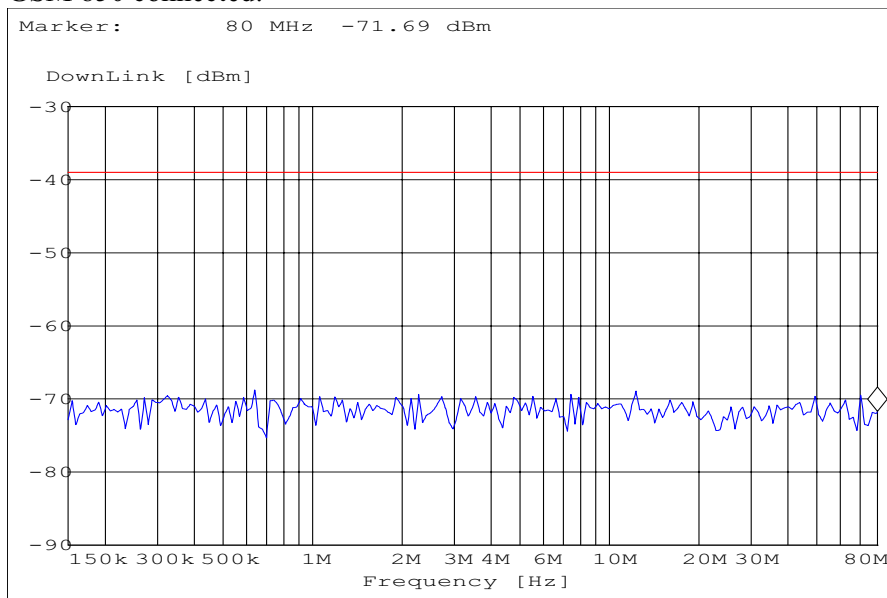
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Report No.: SHEMO051200623IT
Page 188 of 209

Power Supply8:

GSM 850 connected:



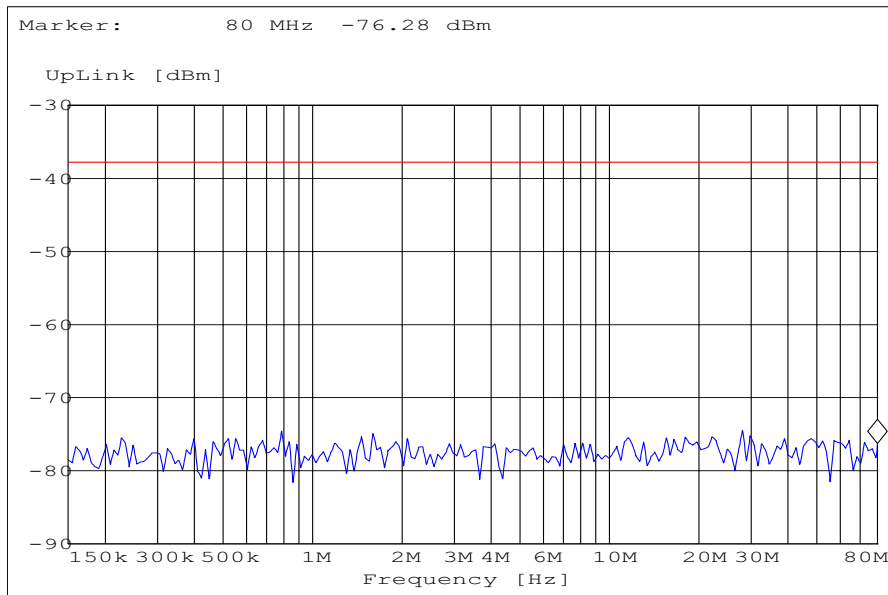
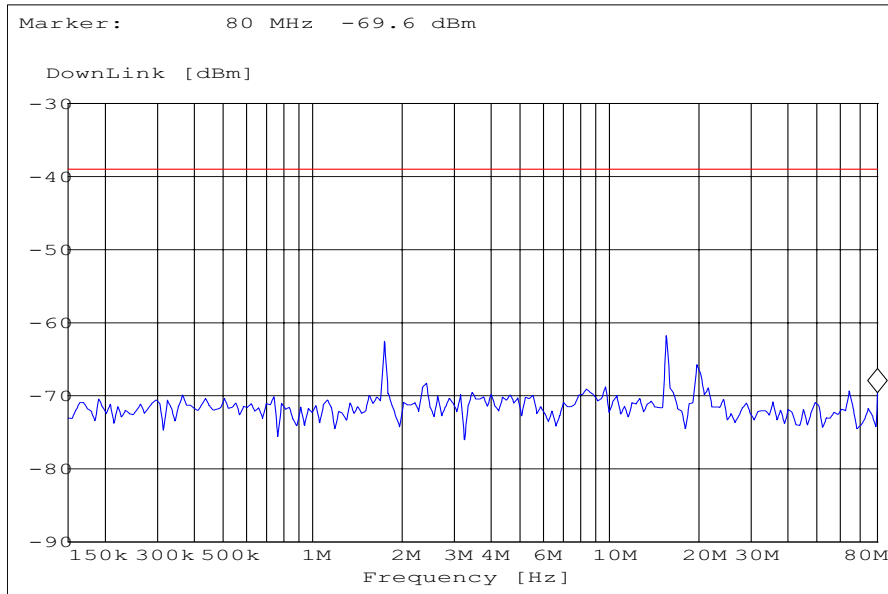
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Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

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Page 189 of 209

PCS 1900 connected:



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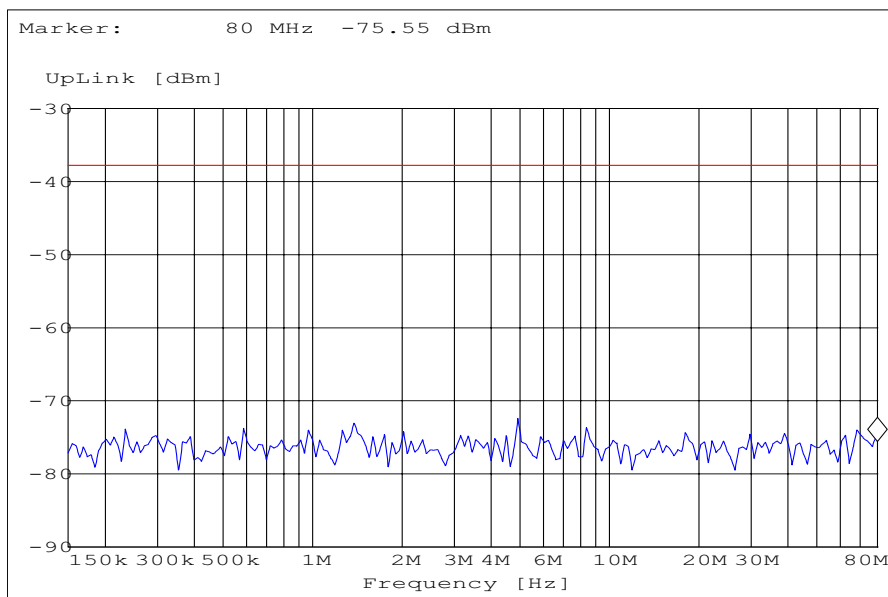
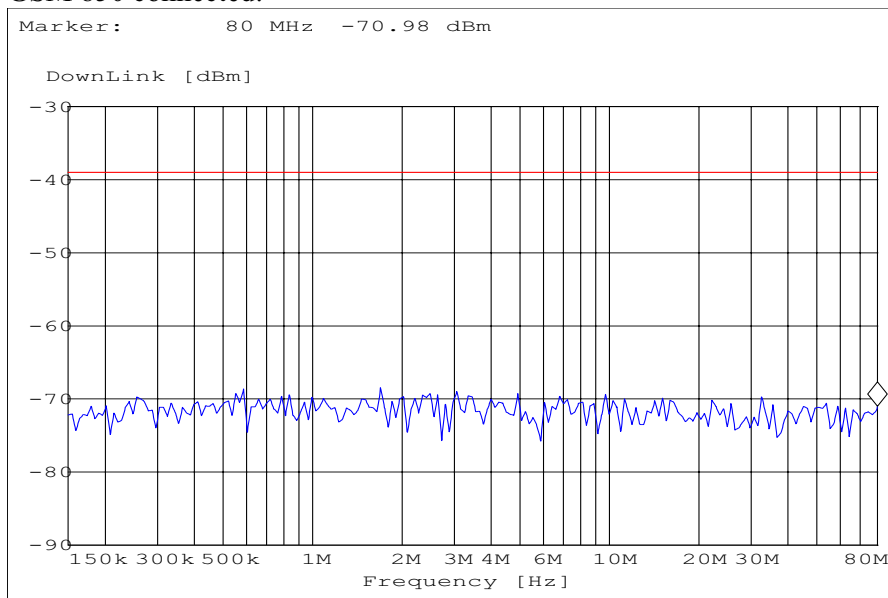
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 190 of 209

Power Supply9:

GSM 850 connected:



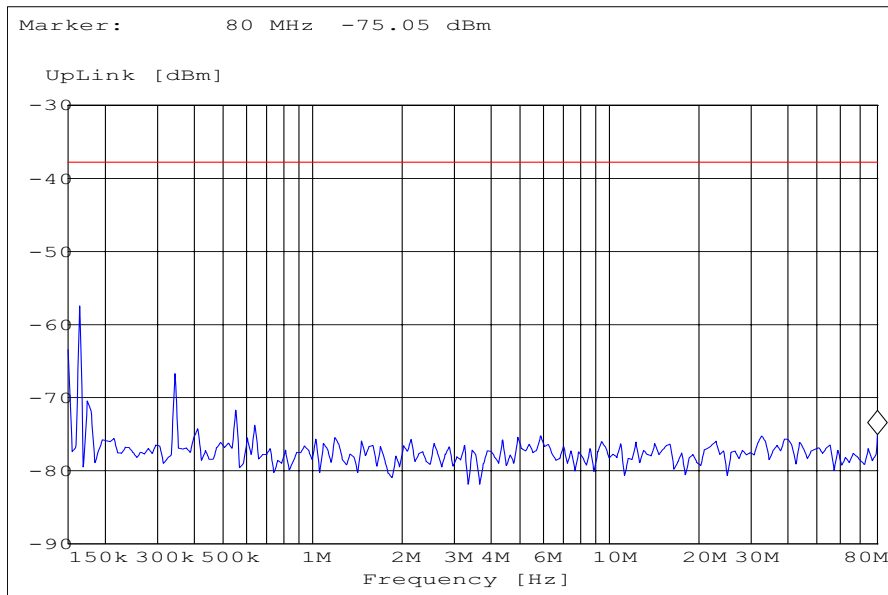
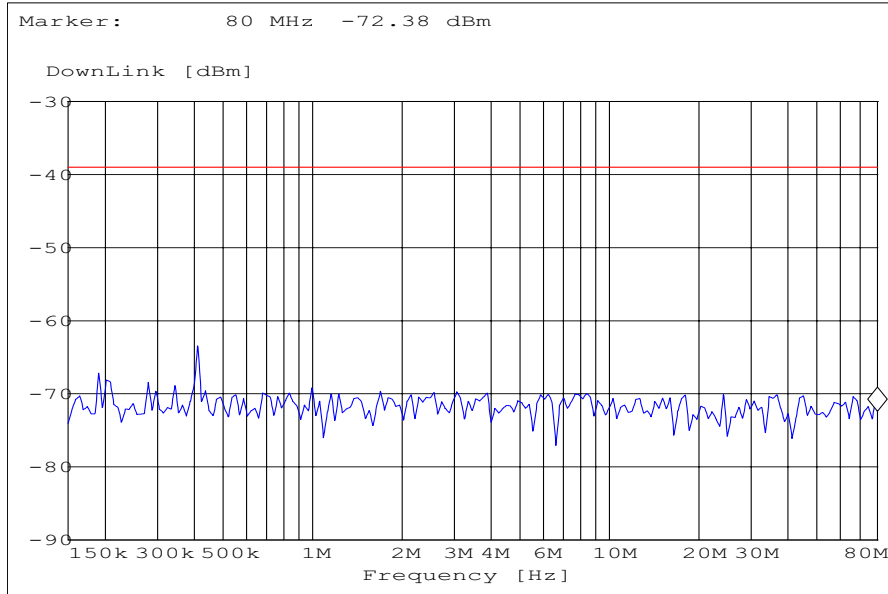
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Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
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Page 191 of 209

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1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 192 of 209

5.6 Voltage dips and interruptions

Test Requirement:	ETSI EN 301 489-1 V1.4.1 (2002-08) 9.7
Test Method:	EN61000-4-11
Test Date:	December 26, 2005
Voltage dip1	30 % for 10 ms
Voltage dip2	60 % for 100 ms
Voltage interruption	Greater than 95 % for 5 000 ms
Criteria	ETSI EN 301 489-7 V1.2.1 (2002-08) 6.2&6.4
Period	Half a hour minimum

5.6.1 E.U.T. Operation

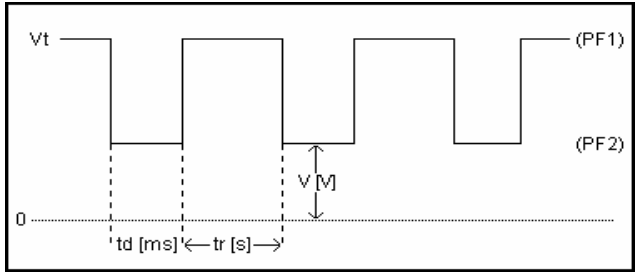
Operating Environment:

Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar
EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with
Operation: adaptor.

5.6.2 Test Results:

Pass

No obvious degradation in the performance of the EUT was observed

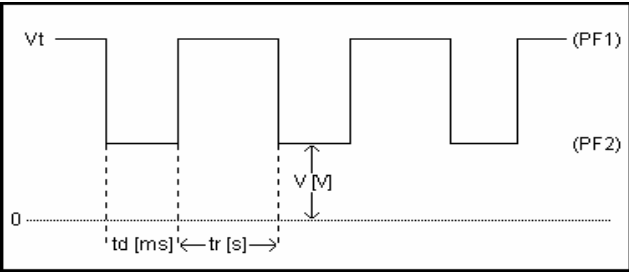
Test Procedure			IEC 61000-4- : Part 11	
Test setup:				
V:	154	V		
td:	10	ms		
tr:	10	s		
Mode:	Asynchron			
Test Type:	Dips			
Events:	5	Time between Tests:	10 s	

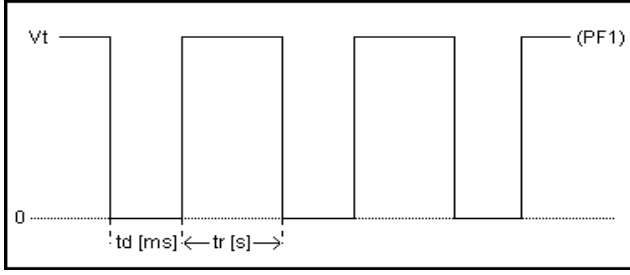
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Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6495 1616
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Report No.: SHEMO051200623IT
Page 193 of 209

Test Procedure			IEC 61000-4- : Part 11
Test setup:			
V:	88	V	
td:	100	ms	
tr:	10	s	
Mode:	Asynchron		
Test Type:	Dips		
Events:	5	Time between Tests:	10 s

Test Procedure			IEC 61000-4- : Part 11	
Test setup:				
td:	5000	ms		
tr:	10	s		
Mode:	Asynchron			
Test Type:	PF1			
Events:	5	Time between Tests:	10	s

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Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 194 of 209

5.7 Surges

Test Requirement: ETSI EN 301 489-1 V1.4.1 (2002-08) 9.8
Test Method: EN61000-4-5
Test Date: December 26, 2005
Line to Line voltage 0.5 kV
Criteria ETSI EN 301 489-7 V1.2.1 (2002-08) 6.2&6.4
Period 45 minute minimum

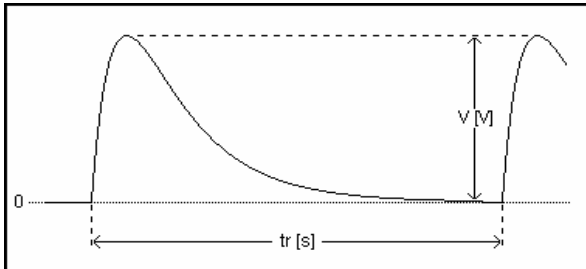
5.7.1 E.U.T. Operation

Operating Environment:
Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar
EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with
Operation: adaptor.

5.7.2 Test Results:

Pass

No obvious degradation in the performance of the EUT was observed

Test Procedure			IEC 61000-4- : Part 5	
Pulse (Open circuit)	1.2/50 us		Pulse (Short circuit)	8/20 us
Test setup:				
V:	500	V		
tr:	60	s		
Angle (Start):	0	°		
Angle (Stop):	270	°		
Angle (Step):	90	°		
Mode:		Synchron		
Polarity:		Alternate		
Coupling:		L-N		
Events:	5			

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Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 195 of 209

5.8 Transients and surges in the vehicular environment

Test Requirement: ETSI EN 301 489-1 V1.4.1 (2002-08) 9.6
Test Method: ETSI EN301 489-1 clause 9.6.2 (ISO 7637-1 [14])
ETSI EN301 489-1 clause 9.6.2 (ISO 7637-2 [15])
Test Date: December 26, 2005
Criteria ETSI EN 301 489-7 V1.2.1 (2002-08) 6.1&6.2&6.3&6.4

5.8.1 E.U.T. Operation

Operating Environment:
Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar
EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with
Operation: DC adaptor.

5.8.2 Test Results:

ETSI EN301 489-1 clause 9.6.2.1 (ISO 7637-1 [14]) for 12VDC power equipment	
Requirements	Observation (Performance Criterion)
Pulse 3a and 3b, level II, with the test time reduced to 5 min for each	No Loss of Function (A)
Pulse 4, level II, 5 pulses, with the characteristics as follows: $V_s = -5\text{ V}$; $V_a = -2,5\text{ V}$; $t_6 = 25\text{ ms}$; $t_7 = 50\text{ ms}$; $t_8 = 5\text{ s}$; $t_f = 5\text{ ms}$; pulse cycle time: 60 s	No Loss of Function (A)
Pulse 1, level II: $t_1 = 2,5\text{ s}$; 10 pulses	No Loss of Function (A)
Pulse 2, level II: $t_1 = 2,5\text{ s}$; 10 pulses	No Loss of Function (A)
Pulse 7, level II: 5 pulses	No Loss of Function (A)

ETSI EN301 489-1 clause 9.6.2.2 (ISO 7637-2 [15]) for 24VDC power equipment	
Requirements	Observation (Performance Criterion)
Pulse 3a and 3b, level II, with the test time reduced to 5 min for each	No Loss of Function (A)
Pulse 4, level II, 5 pulses, with the characteristics as follows: $V_s = -10\text{ V}$; $V_a = -5\text{ V}$; $t_6 = 25\text{ ms}$; $t_7 = 50\text{ ms}$; $t_8 = 5\text{ s}$; $t_f = 10\text{ ms}$; pulse cycle time: 60 s	No Loss of Function (A)
Pulse 1a, level II: $t_1 = 2,5\text{ s}$; $R_i = 25\Omega$; 10 pulses	No Loss of Function (A)
Pulse 1b, level II: $t_1 = 2,5\text{ s}$; $R_i = 100\Omega$; 10 pulses	No Loss of Function (A)
Pulse 2, level II: $t_1 = 2,5\text{ s}$; 10 pulses	No Loss of Function (A)

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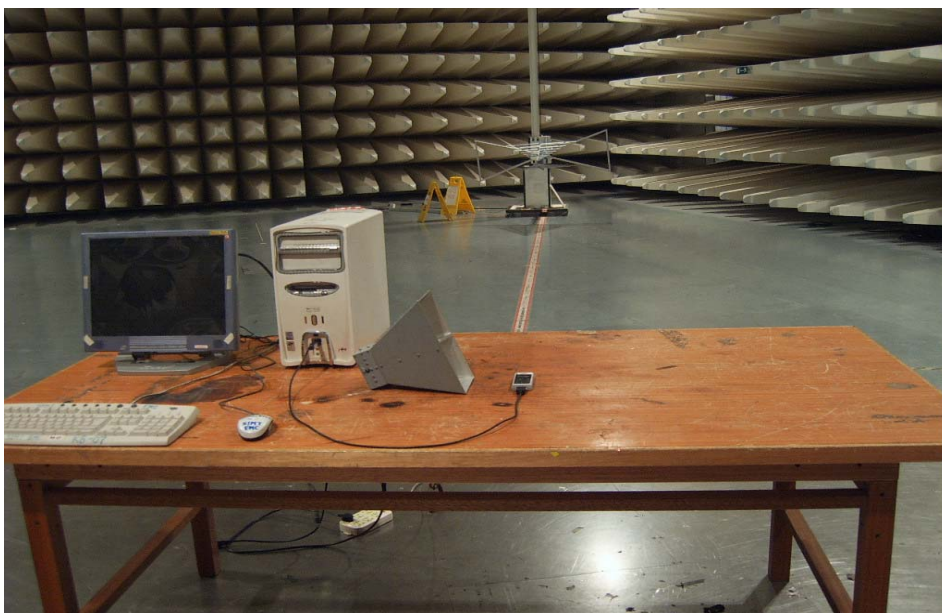
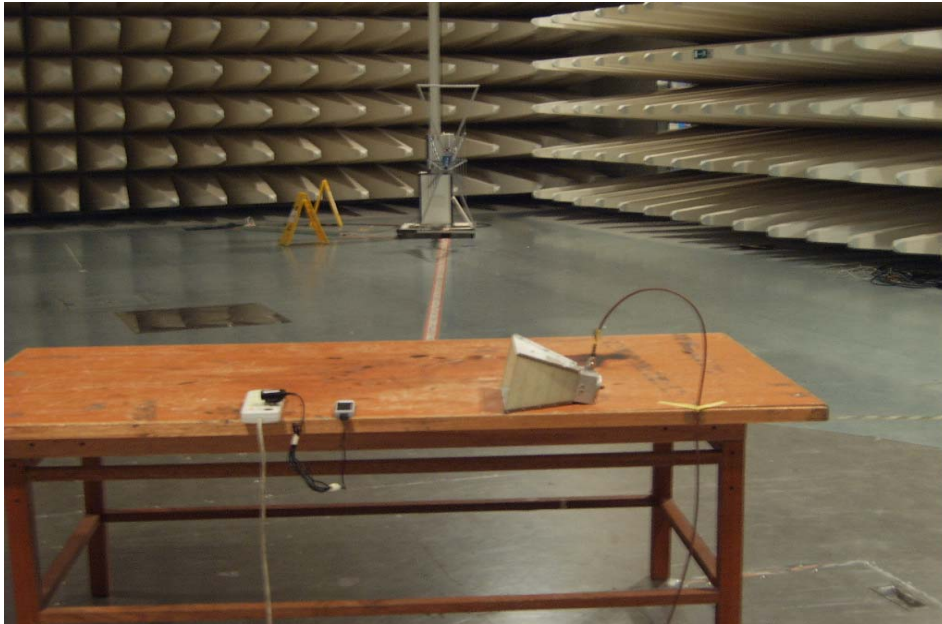
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Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
Tino.Pan@sgs.com

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Page 196 of 209

6 EQUIPMENT UNDER TEST PICTURES

6.1.1 Radiated Emission Test Setup



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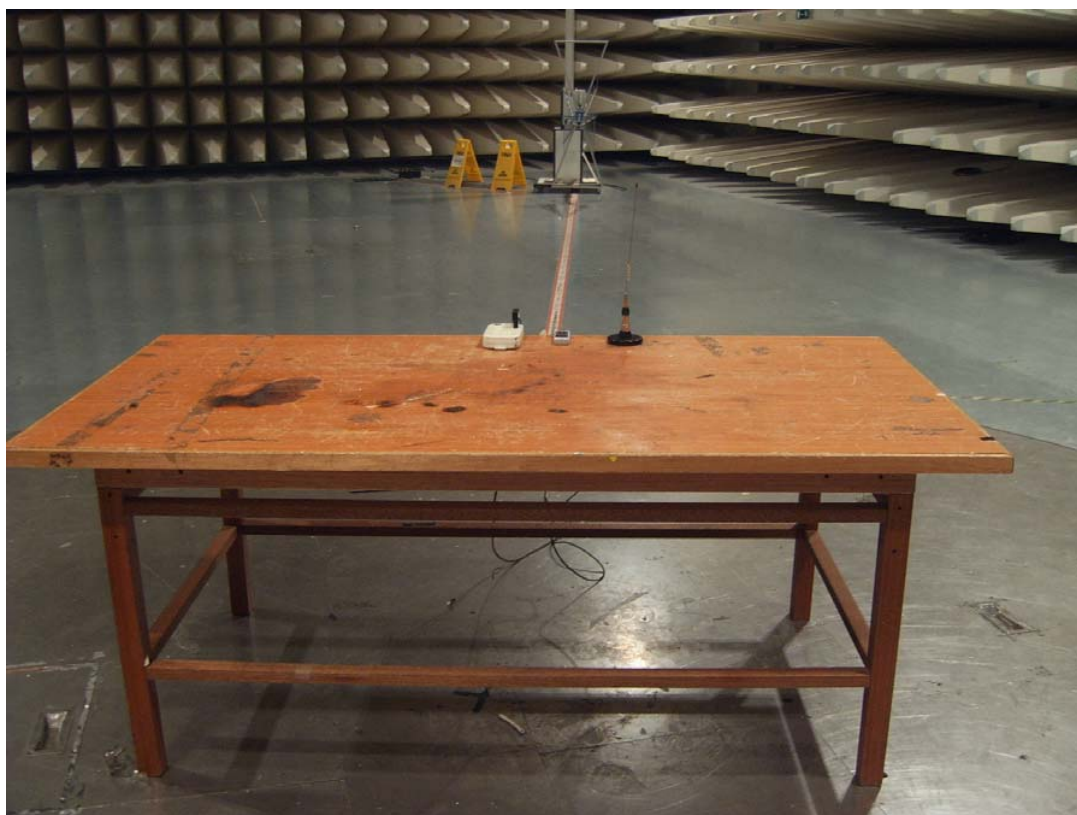
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Tino.Pan@sgs.com

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Page 197 of 209



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Fax: +86 (0) 21 5450 0954

Tino.Pan@sgs.com

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Page 198 of 209

6.1.2 Conducted Emission Test Setup



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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 199 of 209

6.1.3 ESD Test Setup



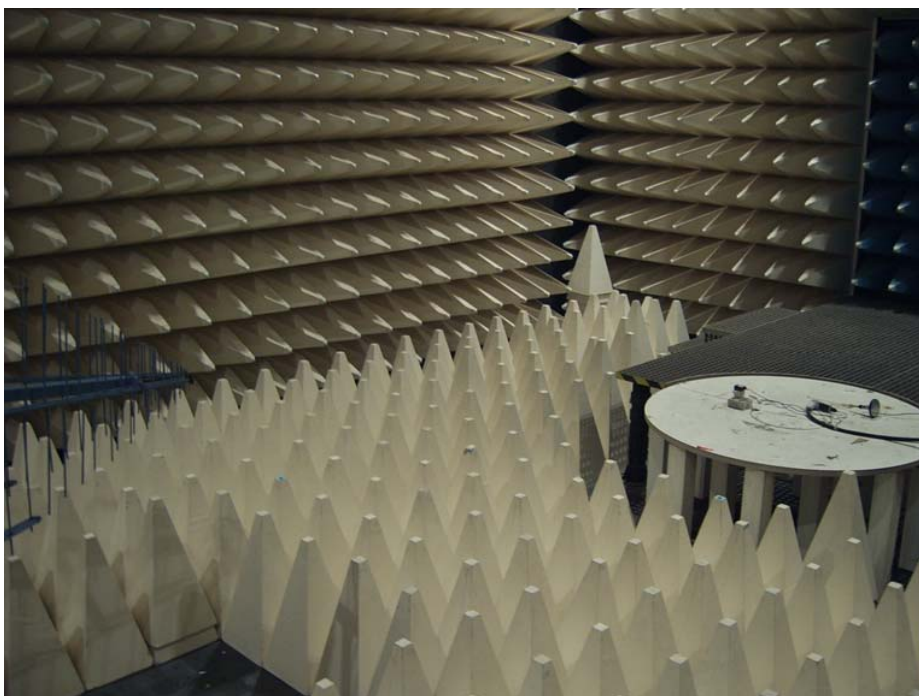
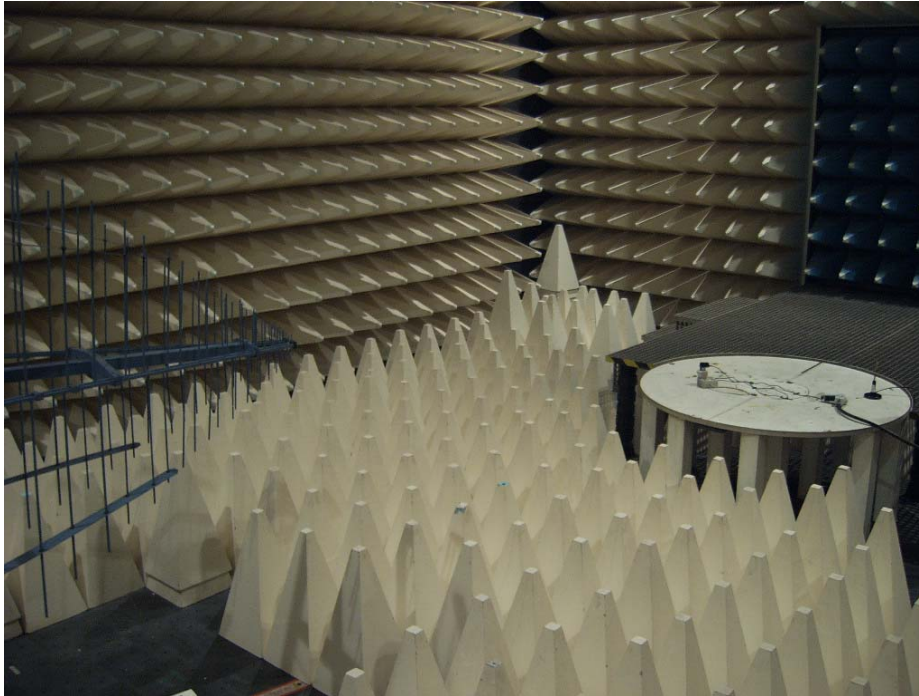
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Fax: +86 (0) 21 5450 0954
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Page 200 of 209

6.1.4 Radiated Immunity Test Setup



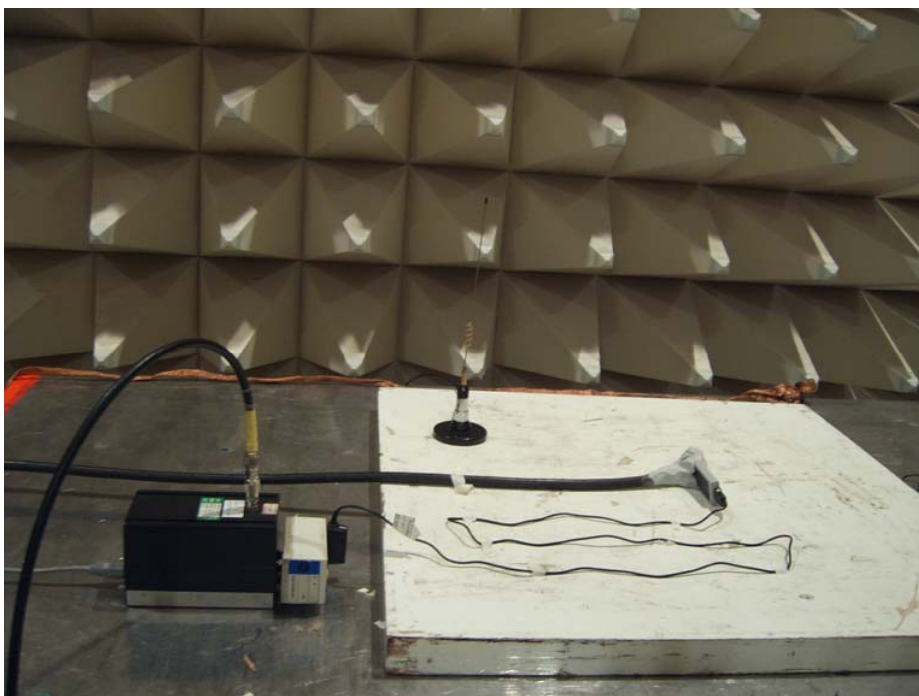
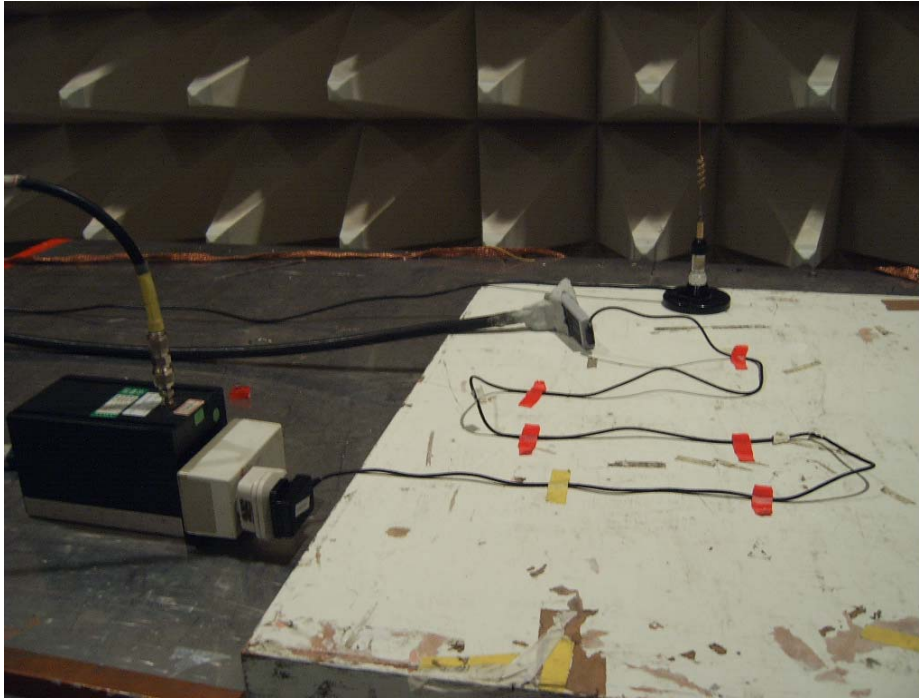
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Yishan Road, Xuhui District, Shanghai, China

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Fax: +86 (0) 21 5450 0954
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Page 201 of 209

6.1.5 Radio frequency common mode Test Setup



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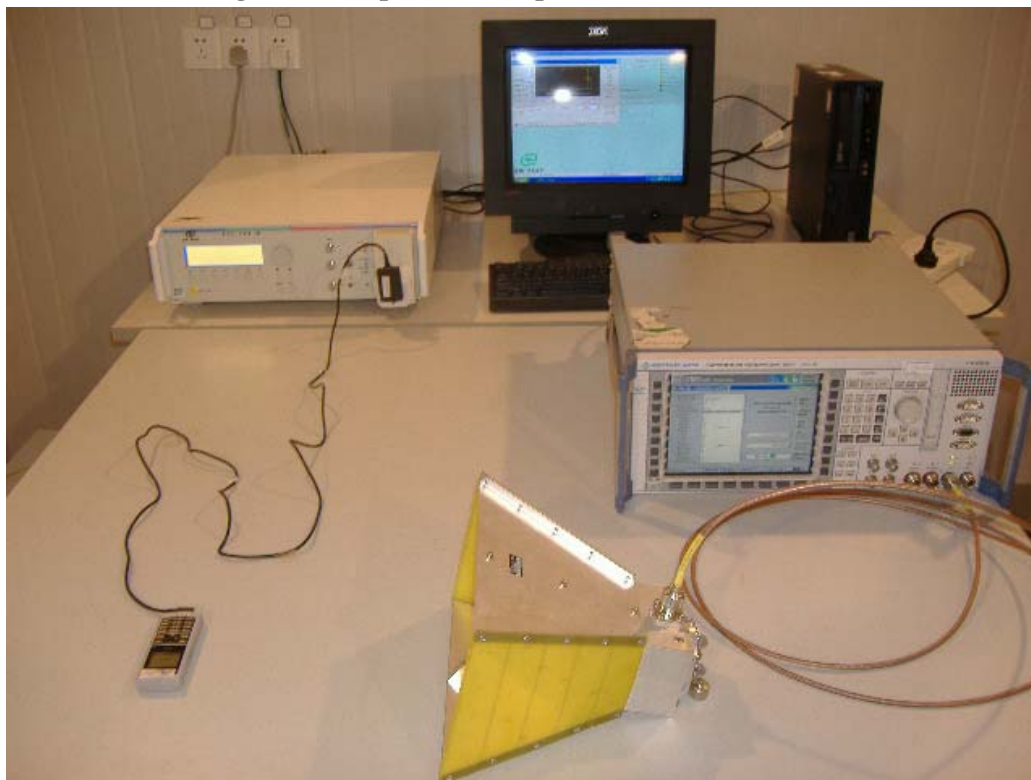
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Page 202 of 209

6.1.6 Surges/EFT/Dips Test Setup



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Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 5450 0954
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Report No.: SHEMO051200623IT
Page 203 of 209

6.1.7 Surges and Transients in the vehicular environment Test Setup



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Page 204 of 209

7 EUT Constructional Details



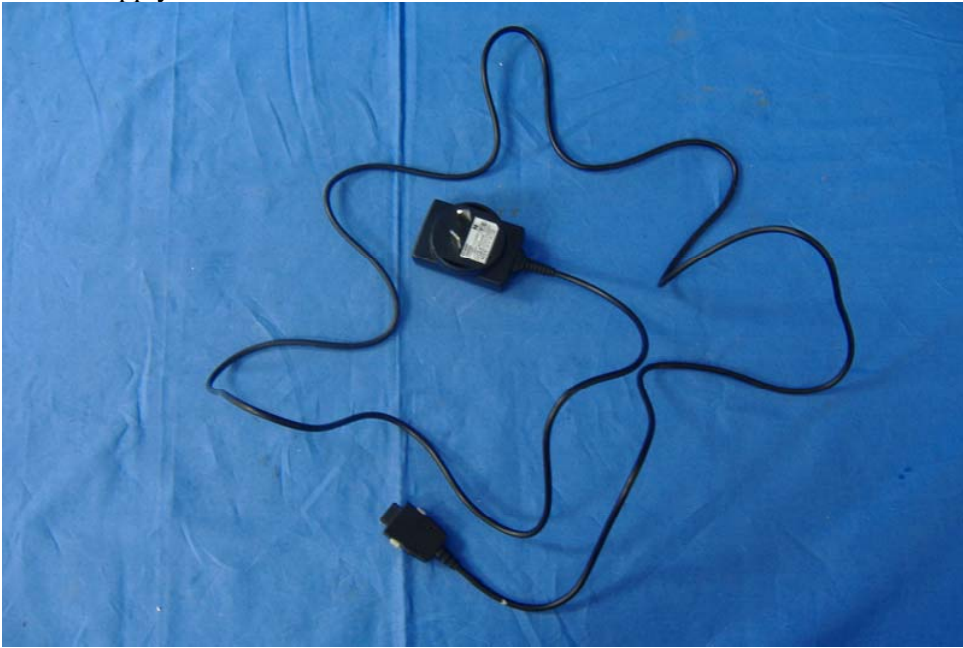
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Fax: +86 (0) 21 5450 0954
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Report No.: SHEMA0051200623IT
Page 205 of 209

Power Supply1:



Power Supply2:



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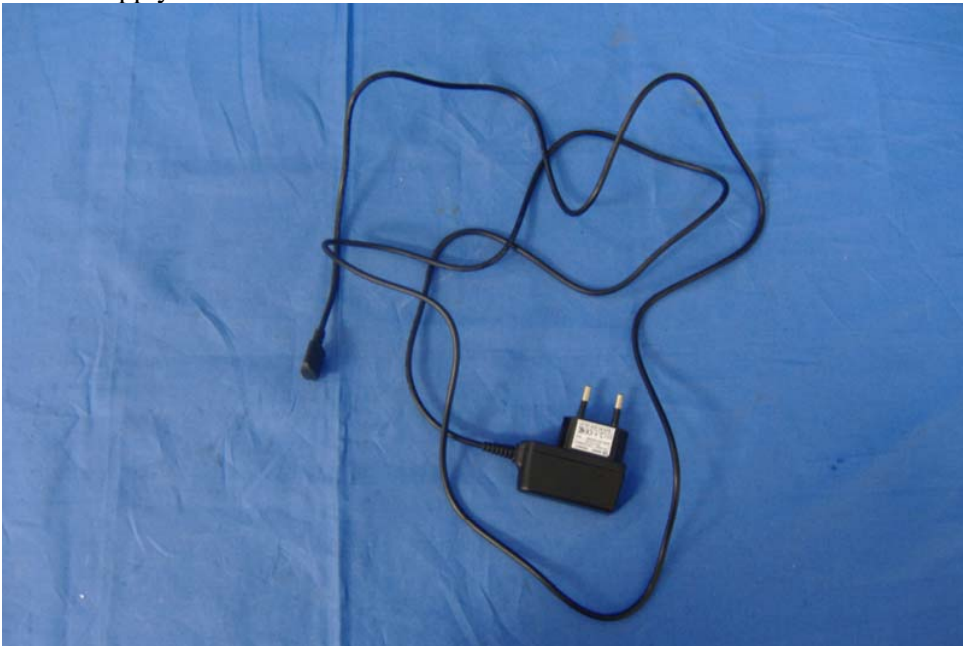
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Page 206 of 209

Power Supply3:



Power Supply4:



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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 207 of 209

Power Supply5:



Power Supply6:



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Telephone: +86 (0) 21 6495 1616
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Tino.Pan@sgs.com

Report No.: SHEMO051200623IT
Page 208 of 209

Power Supply7:



Power Supply8:



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Report No.: SHEMO051200623IT
Page 209 of 209

Power Supply9:



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