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Prüflabor akkreditiert nach ISO 17025 durch die Schweizerische Akkreditierungsstelle SAS

Registration number  
Numéro d'accréditation  
Akkreditierungsnummer

**STS 024**

Schweizerischer Prüfstellendienst  
Service suisse d'essai  
Swiss testing service



Report: Rapport: Bericht:	<i>FCC Test report (FCC ID V380I7P1)</i>		Report no: Rapport no: Bericht Nr:	15'303
Product name: Nom du produit: Produktname	<i>SpotMell Handheld</i>		Mandate no: Mandat no: Auftrag Nr:	20077722
Serial no: No de série: Seriennummer:	<i>074714</i>	Model number: Numéro de modèle: Modellnummer:	<i>S-02</i>	
Customer: Client: Kunde:	<i>Shockfish SA PSE C, EPFL CH-1015 Lausanne</i>	Date of test: Date de l'essai: Prüfdatum:	<i>April 7 to 28, 2008</i>	

Standards / Normes / Normen

**CFR 47, Part 15, Subpart C, Intentional radiator**

Test performed by  
Essai effectué par :  
Prüfer

*Mr Erich Staub*

Test report prepared by  
Rapport d'essai préparé par :  
Berichterstatter

*Mr Erich Staub*

Test report controlled and approved by  
Rapport d'essai contrôlé et approuvé par :  
Prüfbericht kontrolliert und genehmigt durch

*Mr Raymond Schneuwly*

*Rossens, July 14, 2008*

(Issue Date / Date d'édition / Ausstelldatum)

V2008Jul11

Main language / Langue principale / Hauptsprache : *english / français / deutsch*

The present document results from tests on a specimen and does not prejudice to the conformity of all the manufactured products. - Le présent document résulte d'essais sur un spécimen. Il ne préjuge pas de la conformité de l'ensemble des produits fabriqués à l'objet essayé. - Dieser Bericht beinhaltet die Prüfergebnisse eines Mustergerätes. Es kann daraus nicht auf die Übereinstimmung der Seriegeräte mit dem Mustergerät geschlossen werden.

q:\mandats\2007\20077722\_shockfish\_spotmell\rap\_shockfish sa\_15303\_spotmeil.doc

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## 1. Summary of test results / Résumé des résultats d'essais / Zusammenfassung der Prüfergebnisse

✓ Pass / Réussi / Bestanden

✗ Fail / Echoué / Nicht bestanden

∅ Not applicable to this product / Pas applicable à ce produit / Nicht anwendbar für dieses Produkt

— Not tested / Pas testé / Nicht geprüft

■ No requirements / Pas d'exigence / Keine Anforderung

	§	Test Type / Type d'essai / Art der Prüfung	Result / Résultat / Ergebnis
RFID	-	H-field carrier Champ H porteuse H-Feld Träger CFR 47 § 15.225 (a) to (c)	∅ <sup>2</sup>
	-	H-field carrier stability Champ H stabilité de la porteuse H-Feld Trägerstabilität CFR 47 § 15.225 (e)	∅ <sup>3</sup>
	6.1	Spurious emission Emissions parasites Nebenaussendung CFR 47 § 15.225 (d) and § 15.209	✓
CSSS	-	6dB spectrum bandwidth Bande passante 6dB 6dB-Bandbreite CFR 47 § 15.247 (a)(2)	∅ <sup>3</sup>
	6.2	Maximum peak power Puissance maximale peak Maximale Spitzenleistung CFR 47 § 15.247 (b)(3)	✓
	-	Peak power spectral density Densité spectrale de la puissance peak Spektrale Spitzenleistungsdichte CFR 47 § 15.247 (e)	∅ <sup>3</sup>
	6.2	Band edges emission Emissions aux bords de la bande Emission an den Bandgrenzen CFR 47 § 15.247 (d)	✓
	6.3	Spurious emission Emissions parasites Nebenaussendung CFR 47 § 15.247 (d)	✓
WLAN	-	6dB spectrum bandwidth Bande passante 6dB 6dB-Bandbreite CFR 47 § 15.247 (a)(2)	∅ <sup>3</sup>
	6.4	Maximum peak power Puissance maximale peak Maximale Spitzenleistung CFR 47 § 15.247 (b)(3)	✓
	-	Peak power spectral density Densité spectrale de la puissance peak Spektrale Spitzenleistungsdichte CFR 47 § 15.247 (e)	∅ <sup>3</sup>
	6.4	Band edges emission Emissions aux bords de la bande Emission an den Bandgrenzen CFR 47 § 15.247 (d)	✓
	6.5	Spurious emission Emissions parasites Nebenaussendung CFR 47 § 15.247 (d)	✓
Standby	-	Conducted emission Émission par conduction Geleitete Emission CFR 47 § 15.107 (Class B)	∅ <sup>1</sup>
	6.6	Spurious emission Emissions parasites Nebenaussendung CFR 47 § 15.109 (Class B)	✓

1. Powered with / Alimenté avec / Gespeist mit : 4.2VDC (battery)

2. Emission of carrier is below general limits of §15.209.

3. Covered by tests of the chip manufacturer.

**2. Applied standards / Normes appliquées / Verwendete Normen**

47 CFR Part 15	Code of Federal Regulations - Telecommunication, FCC Part 15 - Radio frequency devices
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**3. Client / Client / Kunde**

Client name and address Nom et adresse du client Name und Adresse des Kunden	<i>Shockfish SA PSE C, EPFL CH-1015 Lausanne</i>
Contact Person / Responsable / Kontaktperson	<i>Mr Roger Meyer</i>
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Fax / Télécopieur / Telefax	<i>+41 21 693 85 16</i>
E-mail / Courrier électronique / E-mail	<i>shockfish@shockfish.com</i>
Mandate no / No. de mandat / Auftragsnr.	<i>20077722</i>

**4. Equipment under test / Equipement à l'essai / Prüfling****4.1 Identification / Identification / Identifikation**

Manufacturer name and address Nom et adresse du fabricant Name und Adresse des Herstellers	<i>Shockfish SA PSE C, EPFL CH-1015 Lausanne</i>
Production country / Pays de fabrication / Ursprungsland	<i>Switzerland</i>
Brand name / nom de marque / Verkaufsmarke	<i>Spotme</i>
Product name / Nom du produit / Produktname	<i>SpotMell Handheld</i>
Product description / Description du produit / Produktbeschreibung	<i>PDA with 802.11b/g WLAN, CSSS and RFID radio functions. It is intended to be used as a communicator device for conferences, events or trade shows on a rental basis.</i>
Model number / Numéro de modèle / Modellnummer	<i>S-02</i>
Serial no / No. de série / Seriennummer	<i>074714</i>
Software version / Version du logiciel / Softwareversion	<i>revC2.2</i>
Highest frequency / Fréquence la plus élevée / Höchste Frequenz	<i>2462 MHz (channel 11)</i>
Supply / Alimentation / Speisung	<i>U = 4.2VDC (battery)</i>
Technical documentation Documentation technique Technische Dokumentation	<i>None. The equipment is completely identified by its serial no. according to ISO 9001.</i>

4.2 Pictures of the EUT / Photos de l'EST / Fotos des Prüflings

	<p>Top view closed</p>
	<p>Top view open</p>
	<p>Rear view open</p>



#### 4.3 Classification / Classification / Klassierung

CFR 47 Part 15	<input type="checkbox"/> Unintentional radiator (Subpart B) <input checked="" type="checkbox"/> Intentional radiator (Subpart C) <input type="checkbox"/> Class A digital device <input type="checkbox"/> Class B digital device
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#### 4.4 Ports / Accès / Anschlüsse

Port / Accès / Anschluss	Cable / Câble / Kabel			Remark / Remarque / Bemerkung
	Max. length / Longueur max. / Max. Länge	Type / Type / Typ	Screen / Blindage / Schirm	
Charging contacts	---	---	---	---

#### 4.5 Modifications / Modifications / Angebrachte Änderungen

None
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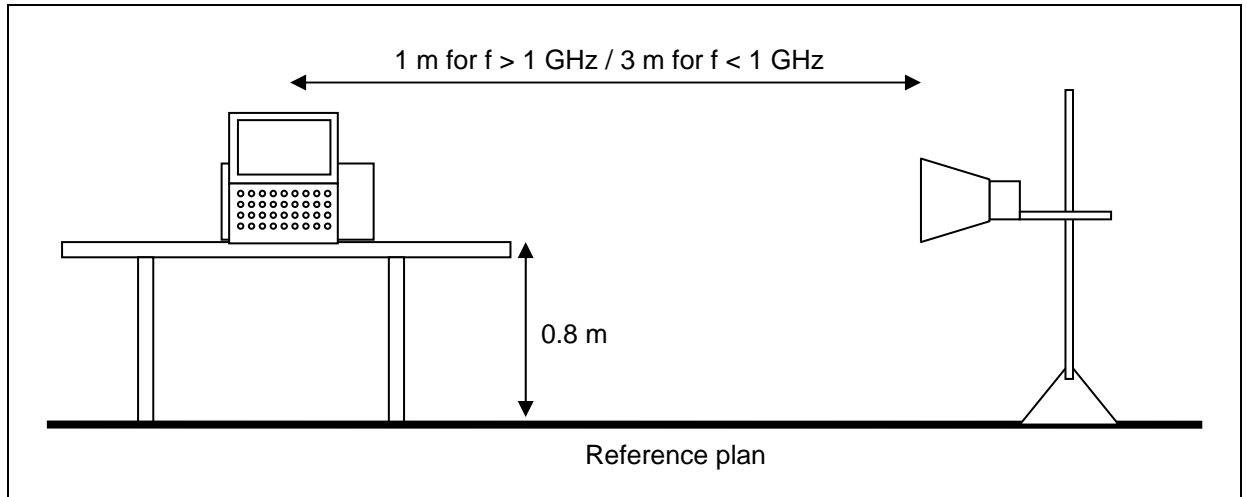
### 5. Test conditions / Conditions d'essai / Testbedingungen

#### 5.1 Climatic conditions, location and date / conditions climatiques, lieu et date / klimatische Bedingungen, Ort und Datum

Location / Lieu / Ort:	Date / Date / Datum:	Temp. / Temp. / Temp.:	Pressure / Pression / Druck [QFF]:	Rel. humidity / Humidité rel. / Rel. Luftfeuchtigkeit:
montena emc sa CH-1728 Rossens	April 7 to 28, 2008	18 - 25 °C	1000 – 1050 hPa	30 - 40 %

#### 5.2 Test facility and methodology / Lieu d'essai et méthodologie / Prüfort und Methodik

<p>The alternate test site (ferrite chamber) is accepted by FCC (Reg. No. 0009508433).</p> <p>Conducted and radiated measurements are performed according to the ANSI C63.4 (2003) procedure.</p>
---

**5.3 Attendant persons / Personnes présentes / Anwesende Personen****Test Engineer(s) / Ingénieur(s) d'essai / Prüfingenieur(e) :***Mr Erich Staub***5.4 Test configuration / Configuration d'essai / Prüfkonfiguration**

## 6. Emission tests



**6.1 Spurious emission (RFID)**

**6.1.1 Radiated emission - Magnetic field (150 kHz – 30 MHz)**

Test site:  semi-anechoic chamber (ferrites)  open test site  
 semi-anechoic chamber (foam)  .....

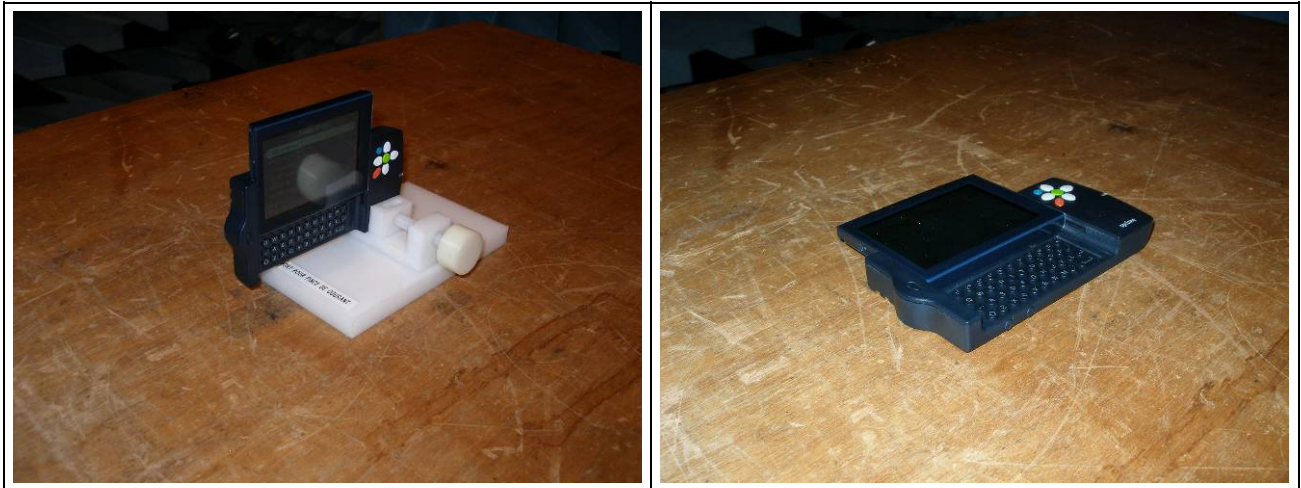
Meas. distance:  3 m  10 m  30 m  ..... m

Meas. uncertainty: ± 2.8 dB (10 m)

Position of EUT: 0.8 m (height above floor of equipment under test)

Measuring method: The magnetic disturbance radiated by the equipment under test is measured using a spectrum analyser and a wide band magnetic antenna. The center of the antenna is placed at 1 m of height, first in the direction of the apparatus under test, then at 90° to the apparatus and if required also horizontally. If possible the turning table is operated through 360° during the measurement. The recording is carried out taking into account the maximum value of the disturbance appearing during the functioning of the apparatus under test. The peak values are recorded continuously on a graph. The values exceeding the limits are remeasured using a measuring receiver.

Test set-up:



Remarks:

- Limit values expressed in dBµA/m (factor used = 377 Ω = -51.5 dB = free-space wave impedance) and transformed to a measuring distance of 3m (factor used = 40 dB/decade) if necessary e.g.: for f = 9kHz the limit is 2400/f(kHz)µV/m at 300 m;

$$20 \log \left( \frac{2400 / 9_{[\mu V / m]}}{1_{[\mu V / m]}} \right) - 20 \log(377_{[\Omega]}) + 40 \log \left( \frac{300_{[m]}}{3_{[m]}} \right) = 77 \text{ dB} \mu A \text{ at } 3m$$

for f = 30MHz the limit is 30µV/m at 30 m;

$$20 \log \left( \frac{30_{[\mu V / m]}}{1_{[\mu V / m]}} \right) - 20 \log(377_{[\Omega]}) + 40 \log \left( \frac{30_{[m]}}{3_{[m]}} \right) = 18 \text{ dB} \mu A \text{ at } 3m$$

Test equipment:

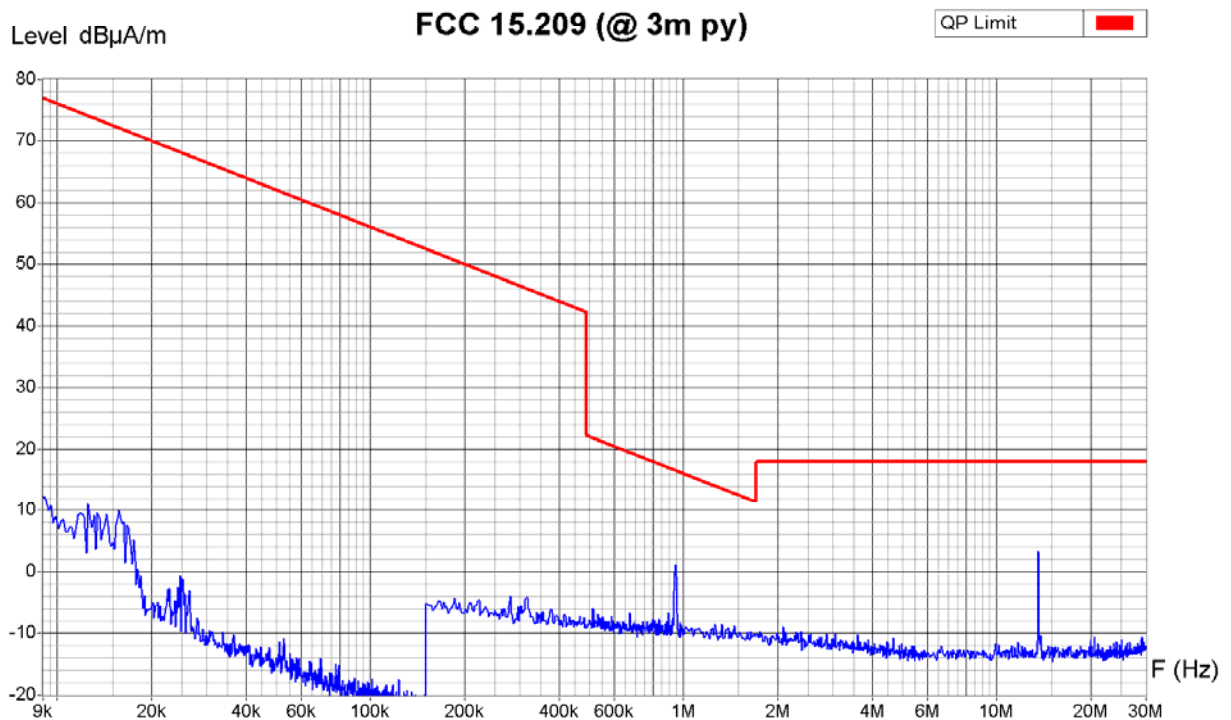
Spectrum analyser	<input type="checkbox"/> 88-14	<input type="checkbox"/> 90-26	<input type="checkbox"/> 94-24	<input type="checkbox"/> 02-06	<input type="checkbox"/> 03-45	<input checked="" type="checkbox"/> 03-57
Receiver	<input type="checkbox"/> 85-12	<input type="checkbox"/> 90-11	<input type="checkbox"/> 94-34	<input type="checkbox"/> 04-28	<input type="checkbox"/> .....	
Antenna (typ: magnetic)	<input checked="" type="checkbox"/> 90-25	<input type="checkbox"/> 90-28	<input type="checkbox"/> 99-32	<input type="checkbox"/> .....		
Cables	<input checked="" type="checkbox"/> 06-00					

**Result:**  pass  fail  not applicable  not tested

Measurement Type : Radiated Field  
 Polarisation : Parallel  
 Table Angle : 0 - 360°  
 Antenna Height : 1m (center of loop antenna)



Equipment Under Test : SpotMell handheld  
 Set-Up : handheld open, upright  
 Operating Conditions : Tx, RFID, Pmax  
 Remarks :



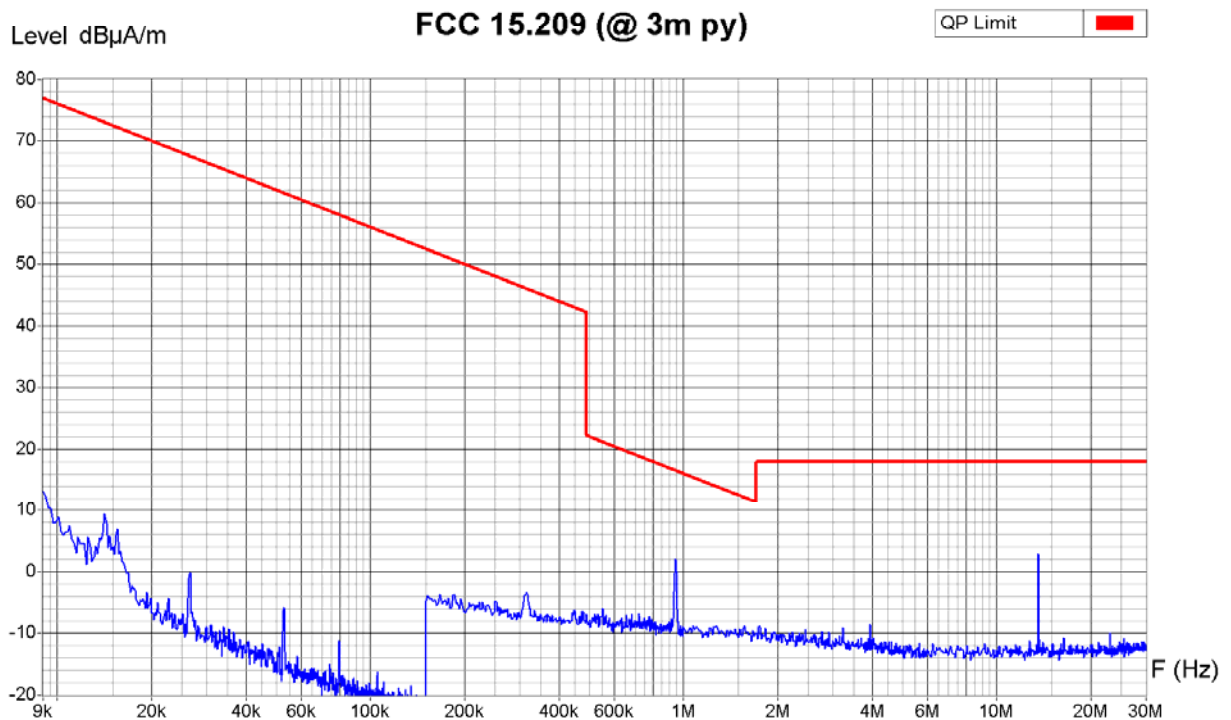
Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: E. Staub  
 Date/Time: 15.04.08 13:37  
 Filename:  
 2007722\_handheld\_FCC  
 SP-RFID\_000pa.png/.txt

Measurement Type : Radiated Field  
 Polarisation : Perpendicular  
 Table Angle : 0 - 360°  
 Antenna Height : 1m (center of loop antenna)



Equipment Under Test : SpotMell handheld  
 Set-Up : handheld open, upright  
 Operating Conditions : Tx, RFID, Pmax  
 Remarks :



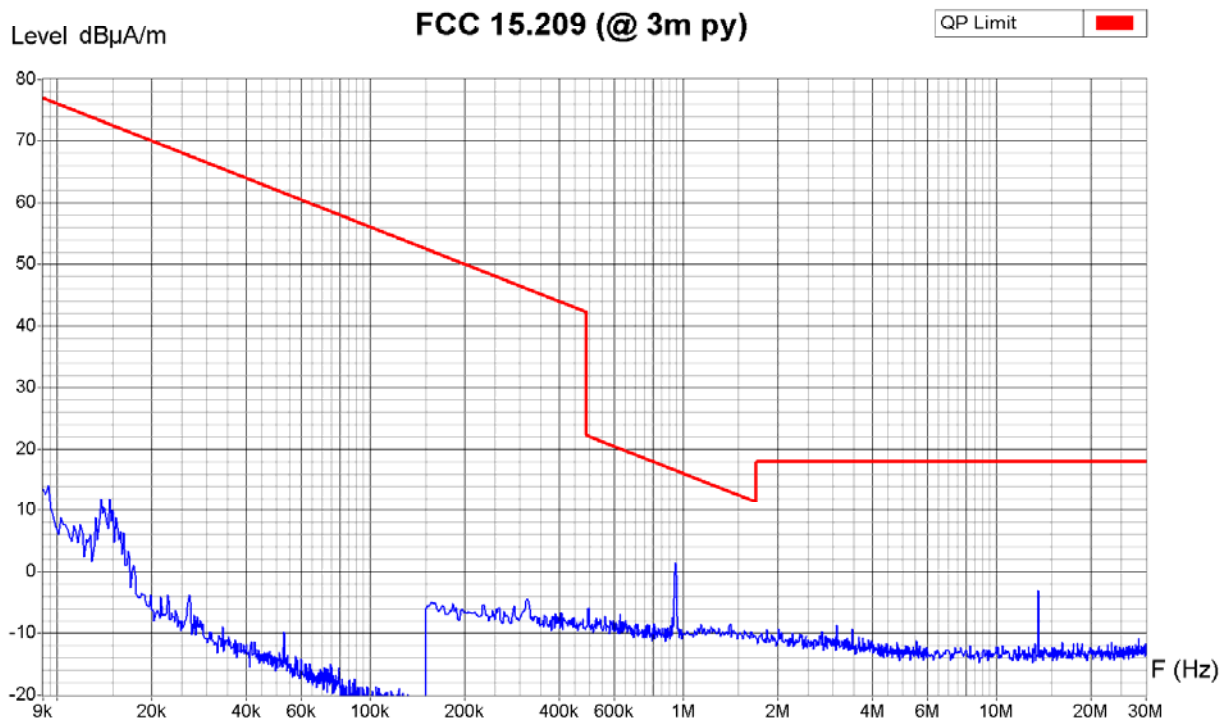
Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: E. Staub  
 Date/Time: 15.04.08 12:53  
 Filename:  
 2007722\_handheld\_FCC  
 SP-RFID\_000pe.png/.txt

Measurement Type : Radiated Field  
 Polarisation : Parallel  
 Table Angle : 0 - 360°  
 Antenna Height : 1m (center of loop antenna)



Equipment Under Test : SpotMell handheld  
 Set-Up : handheld open, laying  
 Operating Conditions : Tx, RFID, Pmax  
 Remarks :



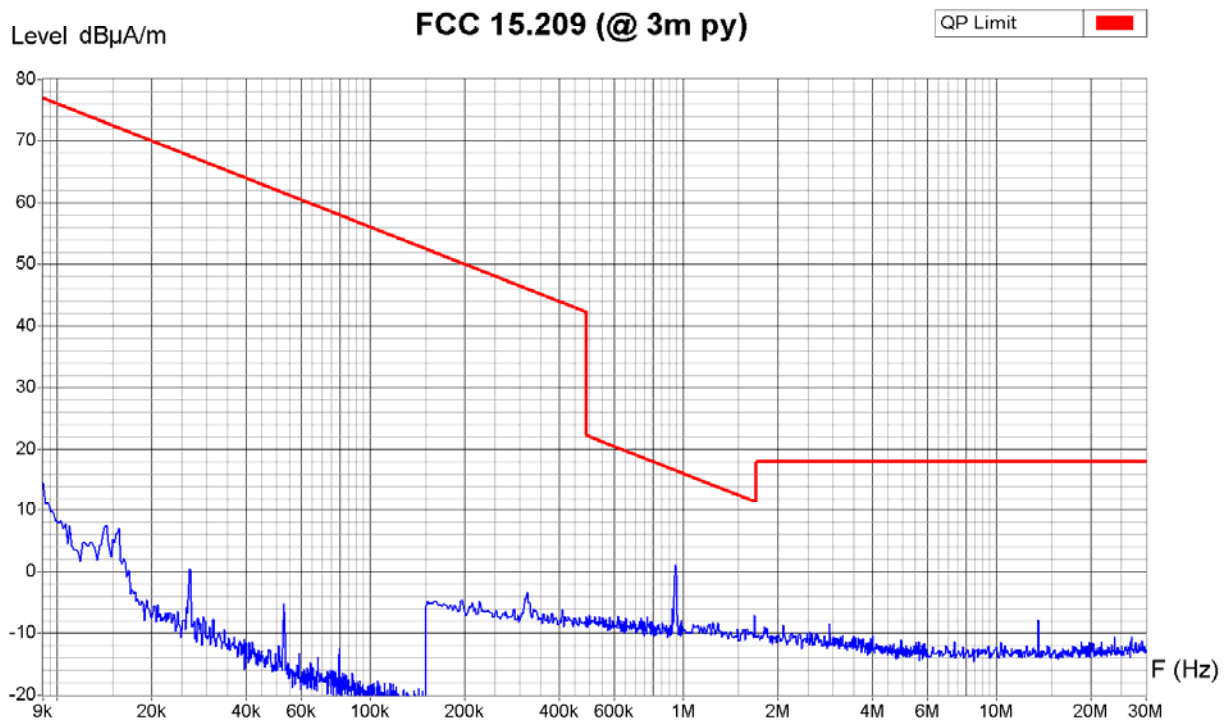
Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: E. Staub  
 Date/Time: 15.04.08 13:45  
 Filename:  
 2007722\_handheld\_FCC  
 SP-RFID\_001pa.png/.txt

Measurement Type : Radiated Field  
 Polarisation : Perpendicular  
 Table Angle : 0 - 360°  
 Antenna Height : 1m (center of loop antenna)



Equipment Under Test : SpotMell handheld  
 Set-Up : handheld open, laying  
 Operating Conditions : Tx, RFID, Pmax  
 Remarks :



Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: E. Staub  
 Date/Time: 15.04.08 13:02  
 Filename:  
 2007722\_handheld\_FCC  
 SP-RFID\_001pe.png/.txt

**6.1.2 Radiated emission - Electromagnetic field (30 MHz – 1 GHz)**

Test site:  semi-anechoic chamber (foam)  open test site  
 semi-anechoic chamber (ferrites)  .....

Distance:  30 m  10 m  3 m  .....

Position of EUT: 0.8 m (height of the equipment under test above floor)

Meas. uncertainty: ± 4.6 dB (30 - 300 MHz) / ± 3.7 dB (300 - 1000 MHz)

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is moved from 1 to 4 m in height successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver.

Test set-up:



Remarks: *Limit values expressed in dBµV/m and transformed to a measuring distance of 3m (factor used = 20 dB/decade) if necessary  
 e.g.: for f = 40MHz the limit is 100µV/m at 3m;*

$$20 \log \left( \frac{100_{[\mu V / m]}}{1_{[\mu V / m]}} \right) = 40dB\mu V \text{ at } 3m$$

Test equipment:

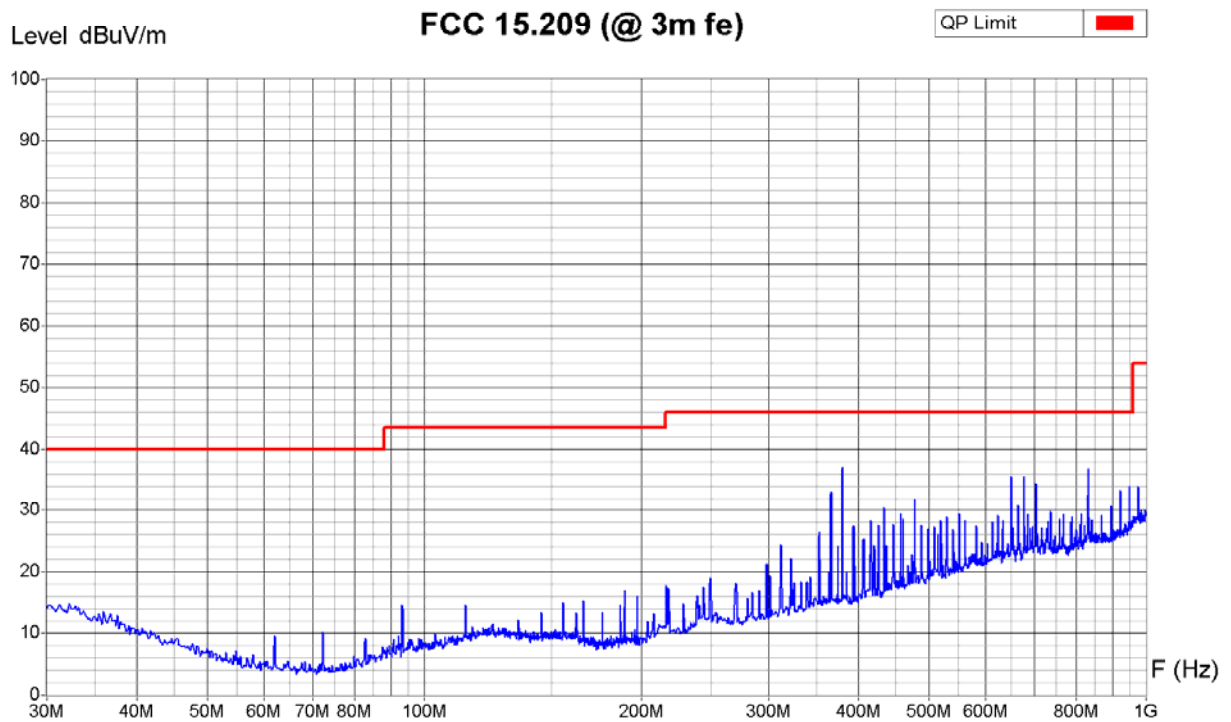
Spectrum analyser	<input type="checkbox"/> 88-14	<input type="checkbox"/> 90-26	<input type="checkbox"/> 94-24	<input type="checkbox"/> 02-06	<input checked="" type="checkbox"/> 03-45	<input type="checkbox"/> 03-57
Receiver	<input type="checkbox"/> 85-04	<input type="checkbox"/> 90-43	<input checked="" type="checkbox"/> 94-35			
Preamplifier	<input type="checkbox"/> 90-01	<input type="checkbox"/> 95-86	<input type="checkbox"/> 05-56	<input checked="" type="checkbox"/> 05-59	<input type="checkbox"/> 05-62	<input type="checkbox"/> .....
Antenna (biconical)	<input type="checkbox"/> 82-02	<input type="checkbox"/> 87-05	<input type="checkbox"/> 87-16	<input type="checkbox"/> 91-05	<input type="checkbox"/> 94-37	
Antenna (log-per)	<input type="checkbox"/> 88-20	<input type="checkbox"/> 90-30	<input type="checkbox"/> 91-35	<input type="checkbox"/> 94-64		
Antenna (bilog)	<input checked="" type="checkbox"/> 94-03	<input type="checkbox"/> 05-38	<input type="checkbox"/> .....			
Antenna (horn)	<input type="checkbox"/> 90-24	<input type="checkbox"/> 90-29	<input type="checkbox"/> 98-12	<input type="checkbox"/> 98-13	<input type="checkbox"/> .....	
Cables	<input checked="" type="checkbox"/> 06-01					

**Result:**  pass  fail  not applicable  not tested

Measurement Type : Radiated Field  
 Polarisation : Horizontal  
 Table Angle : 0 - 360°  
 Antenna Height : 1 - 4m



Equipment Under Test : SpotMell handheld  
 Set-Up : handheld open, upright  
 Operating Conditions : Tx, RFID, Pmax  
 Remarks :



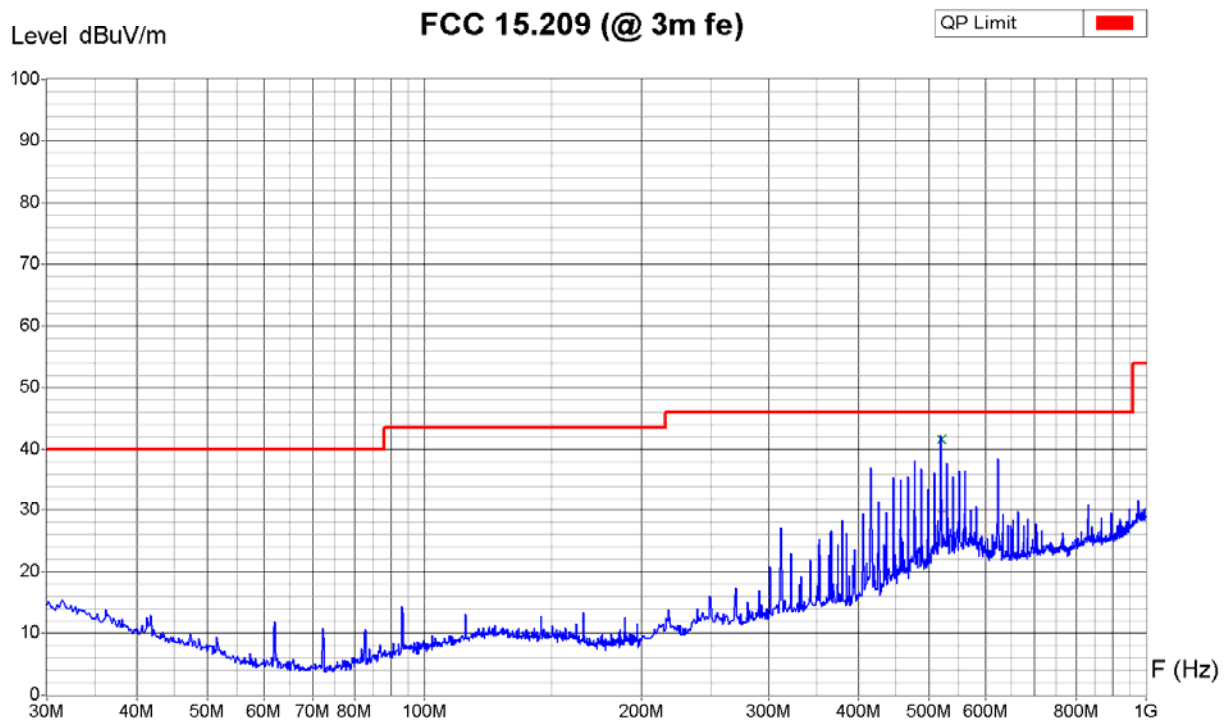
Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: E. Staub  
 Date/Time: 28.04.08 12:32  
 Filename:  
 2007722\_handheld\_FCC  
 SP-RFID\_001h.png/.txt

Measurement Type : Radiated Field  
 Polarisation : Vertical  
 Table Angle : 0 - 360°  
 Antenna Height : 1 - 4m



Equipment Under Test : SpotMell handheld  
 Set-Up : handheld open, upright  
 Operating Conditions : Tx, RFID, Pmax  
 Remarks :



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Receiver Measures

Frequency	Peak	QuasiPeak (x)	Average (+)	QP Margin
520 MHz	44.9 dBuV/m	41.6 dBuV/m	29.7 dBuV/m	4.4 dB

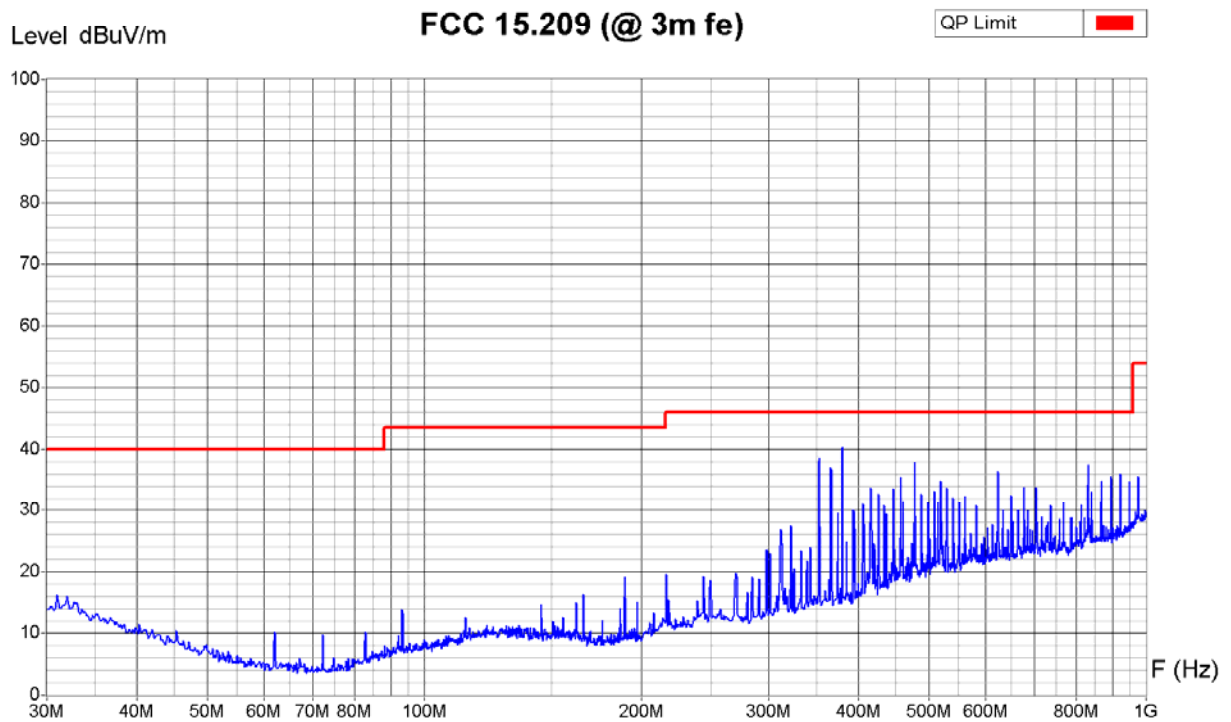
Operator: E. Staub  
 Date/Time: 28.04.08 12:22  
 Filename:  
 2007722\_handheld\_FCC  
 SP-RFID\_001v.png/.txt



Measurement Type : Radiated Field  
 Polarisation : Horizontal  
 Table Angle : 0 - 360°  
 Antenna Height : 1 - 4m



Equipment Under Test : SpotMell handheld  
 Set-Up : handheld open, laying  
 Operating Conditions : Tx, RFID, Pmax  
 Remarks :



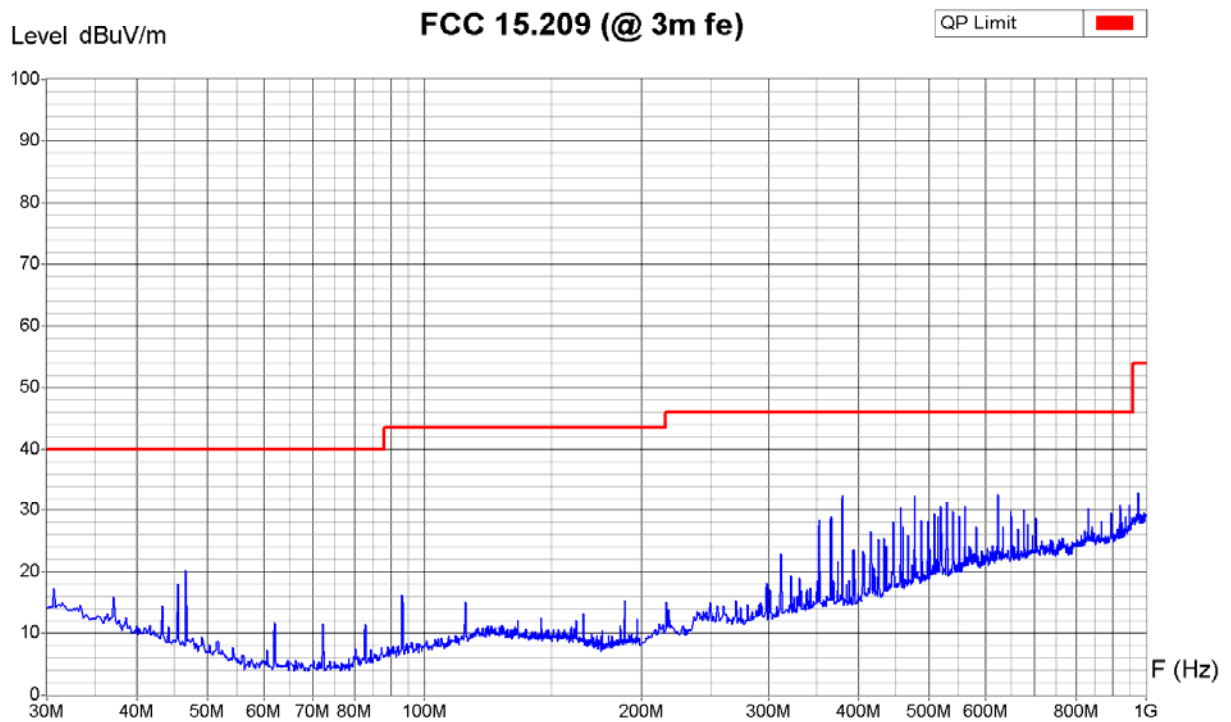
Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: E. Staub  
 Date/Time: 28.04.08 12:40  
 Filename:  
 2007722\_handheld\_FCC  
 SP-RFID\_002h.png/.txt

Measurement Type : Radiated Field  
 Polarisation : Vertical  
 Table Angle : 0 - 360°  
 Antenna Height : 1 - 4m



Equipment Under Test : SpotMell handheld  
 Set-Up : handheld open, laying  
 Operating Conditions : Tx, RFID, Pmax  
 Remarks :



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: E. Staub  
 Date/Time: 28.04.08 12:47  
 Filename:  
 2007722\_handheld\_FCC  
 SP-RFID\_002v.png/.txt