

Annex 1: Measurement diagrams to
TEST REPORT
No.: 17-1-0231001T12a

According to:
FCC Regulations
Part 15.109, Class B

IC-Regulations
RSS-Gen, Issue 5
ICES-003, Issue 6

for

IPETRONIK GmbH & Co KG

μCROS SL
Data Logger

FCC-ID: 2ARF8UCROS-SL

Laboratory Accreditation and Listings



accredited according to DIN EN ISO/IEC 17025

CETECOM GmbH
Laboratory Radio Communications & Electromagnetic Compatibility
Im Teelbruch 116 • 45219 Essen • Germany
Registered in Essen, Germany, Reg. No.: HRB Essen 8984
Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964
E-mail: info@cetecom.com • Internet: www.cetecom.com

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1. Measurement diagrams

1.1. Radiated emissions in the frequency range 30 to 1000MHz

1.1.1. Part 15B

3.01_Part_15B_GPS_RX

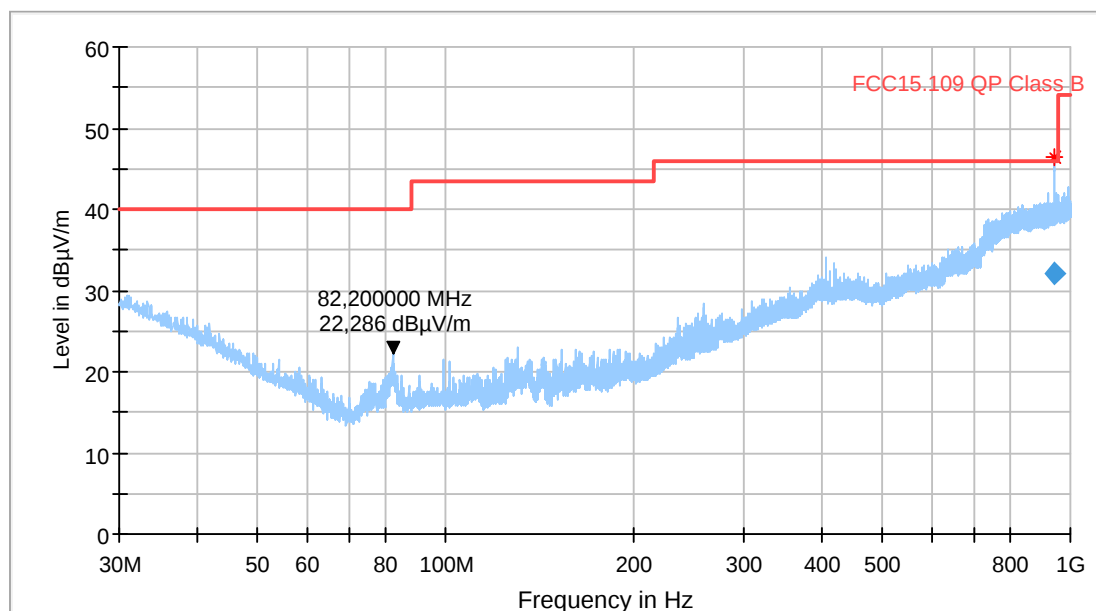
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Test specification.:	FCC 15.109 Class B; RSS-Gen. Issue 5
Operating Mode	GPS RX
Operating conditions:	Humidity: 55%rH; Temperature: 20°C
Power during tests:	24 V DC
Operator:	JVo
Comment 1:	Laying

EUT Information

Manufacturer:	IPETRONIK GmbH & Co KG
Model:	µCROS SL
Type:	Datalogger
HW version:	HW1.03
SW version:	SW1.30
Serial number:	CAETEC
Connected Interfaces:	Antennas (WLAN/ BT/ GNSS/ CELL)
Power Supply:	24 V DC

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Correction (dB)
945.420000	32.15	46.00	120.000	278.0	V	78.0	27.0

3.02_Part_15B_GPS_RX

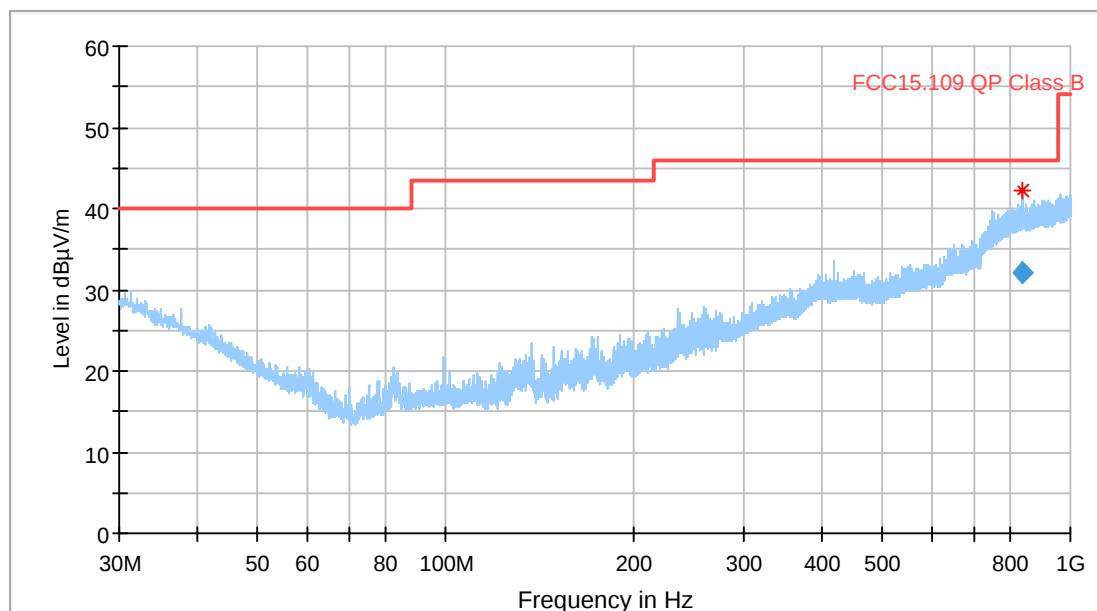
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Test specification.:	FCC 15.109 Class B; RSS-Gen. Issue 5
Operating Mode	GPS RX
Operating conditions:	Humidity: 55%rH; Temperature: 20°C
Power during tests:	24 V DC
Operator:	JVo
Comment 1:	Standing

EUT Information

Manufacturer:	IPETRONIK GmbH & Co KG
Model:	µCROS SL
Type:	Datalogger
HW version:	HW1.03
SW version:	SW1.30
Serial number:	CAETEC
Connected Interfaces:	Antennas (WLAN/ BT/ GNSS/ CELL)
Power Supply:	24 V DC

Full Spectrum



Final Result

Frequen cy (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/ m)	Bandwidht h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr . (dB)
838.7200 00	32.02	46.00	120.000	360.0	V	116.0	26.1

1.2. Radiated emissions in the frequency range above 1000MHz

1.2.1. Part 15B

4.01_FCC15B_GPS_RX

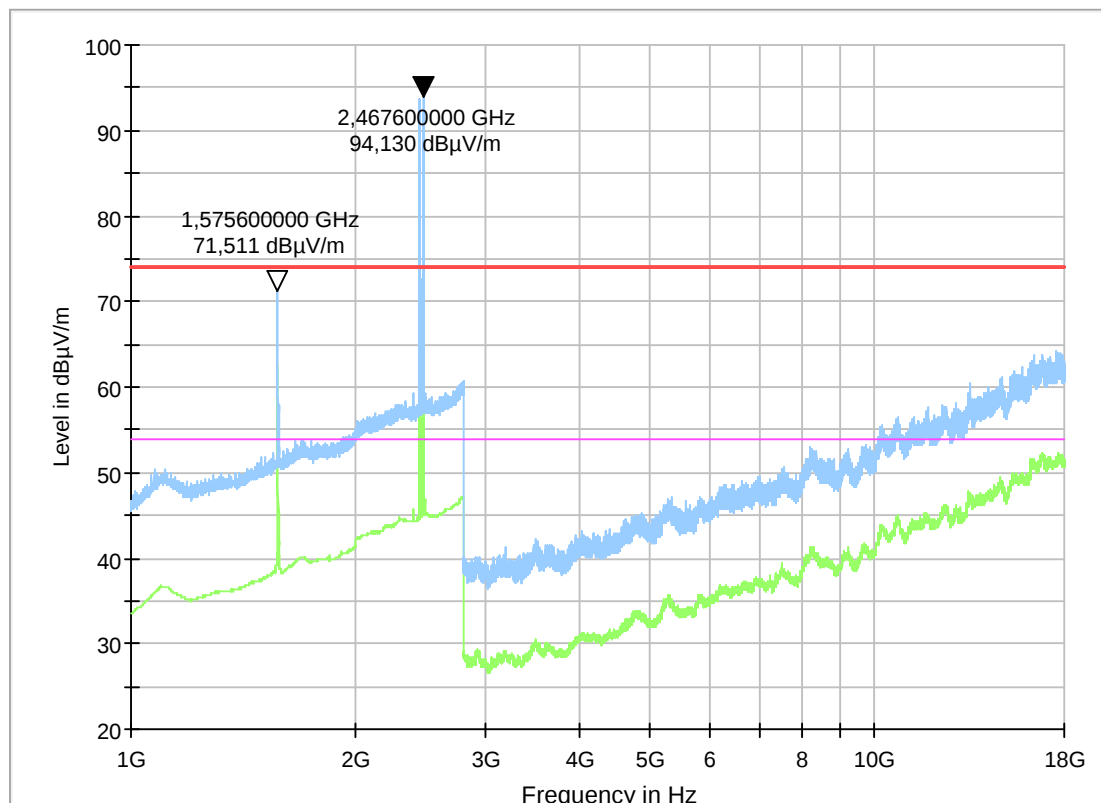
Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 5
Version of Testsoftware:	EMC32 V9.26.0
Operating Mode:	GPS RX
Equipment Class:	Class B
Antenna Polarisation:	Horizontal / Vertical
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	FKa
Comment:	24 V DC

EUT Information

Manufacturer:	IPETRONIK GmbH & Co KG
Model:	µCROS SL
Type:	Datalogger
HW version:	HW1.03
SW version:	SW1.30
Serial number:	CAETEC
Connected Interfaces:	Antennas (WLAN/ BT/ GNSS/ CELL)
Power Supply:	24 V DC

Full Spectrum



4.03_FCC15B

Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 5
Version of Testsoftware:	EMC32 V9.26.0
Operating Mode:	GPS RX
Equipment Class:	Class B
Antenna Polarisation:	Horizontal / Vertical
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	FKa
Comment:	24 V DC

EUT Information

Manufacturer:	IPETRONIK GmbH & Co KG
Model:	µCROS SL
Type:	Datalogger
HW version:	HW1.03
SW version:	SW1.30
Serial number:	CAETEC
Connected Interfaces:	Antennas (WLAN/ BT/ GNSS/ CELL)
Power Supply:	24 V DC

