

Annex 1: Measurement diagrams to
TEST REPORT
No.: 18-1-0029001T01a

According to:
Title 47 - FCC Regulations
Part 15, Subpart B
§5.107, §15.109

for

ELOKON GmbH

Stationary Module
ELOShield Warning System
100868

FCC-ID: 2ASP7-STATM-V01

Laboratory Accreditation
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01 D-PL-12047-01-03 D-PL-12047-01-04
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Table of contents

1. MEASUREMENT DIAGRAMS	3
1.1. Conducted emissions on AC Power lines	3
1.2. Radiated emissions in the frequency range 30 to 1000MHz	4
1.3. Radiated emissions in the frequency range above 1000MHz	5

1. Measurement diagrams

1.1. Conducted emissions on AC Power lines

1.01

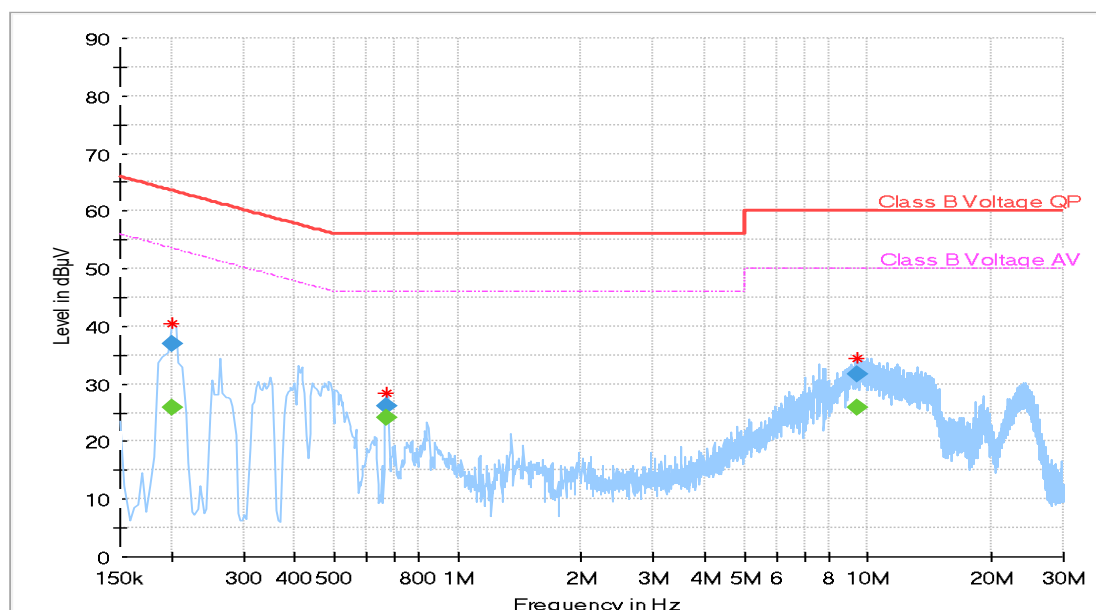
Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site & Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Specification:	§15.107
Operating Mode:	Stationery Panel – Relay On/Off – UWB Off
Measured on line:	120V AC N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 45% rH; Temperature: 20° C
Operator:	JVo

EUT Information

Manufacturer:	ELOKON GmbH
Model:	Stationery Panel
Type:	Indoor Warning System
EUT:	100868
HW version:	1.1
SW version:	1.1.0.4
Config:	Elo Shield Manager 1.1.9.8
Serial number:	18070046
Connected Interfaces:	CAN Bus, 120V AC, USB Cable, 2 x Ant Cable
Power Supply:	120 V AC
Comments:	Relay On/Off, UWB Off

Full Spectrum



Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Corr. (dB)
0.200781	37.02	---	63.58	26.56	9.000	0.1
0.200781	---	25.86	53.58	27.72	9.000	0.1
0.669531	26.11	---	56.00	29.89	9.000	0.2
0.669531	---	24.16	46.00	21.84	9.000	0.2
9.411719	---	25.85	50.00	24.15	9.000	0.4
9.411719	31.63	---	60.00	28.37	9.000	0.4

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

3.01

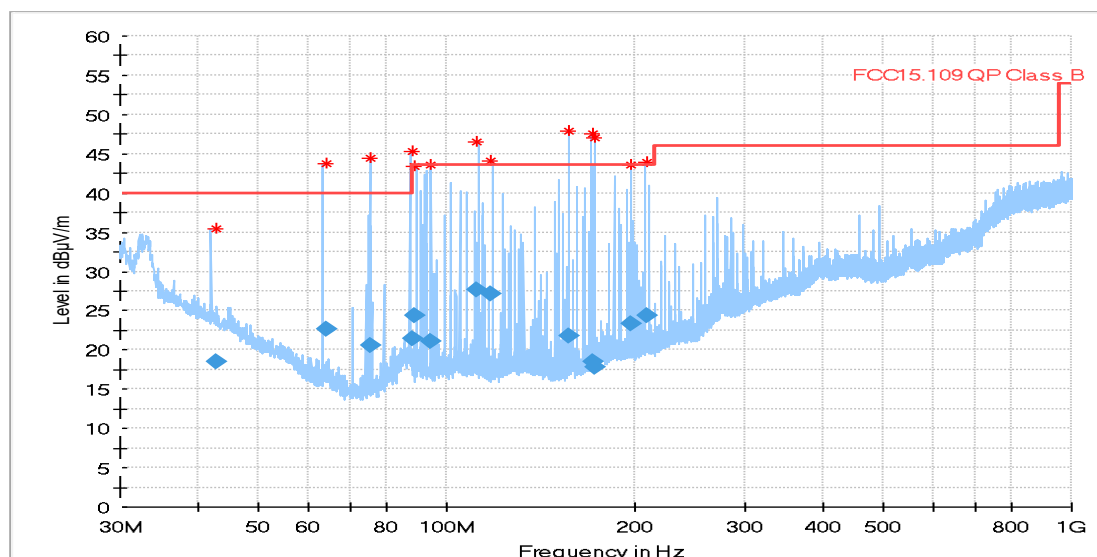
Common Information

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
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	§15.109 Class B
Operator:	HEI
Operating conditions:	Stationery Panel – Relay On/off- UWB Off
Power during tests:	120 V
Environmental Conditions:	Humidity: 48% rH; Temperature: 20° C
Comment 1:	--

EUT Information

Manufacturer:	ELOKON GmbH
Model:	Stationery Panel
Type:	Indoor Warning System
EUT:	100868
HW version:	1.1
SW version:	1.1.0.4
Config:	Elo Shield Manager 1.1.9.8
Serial number:	18070046
Connected Interfaces:	CAN Bus, 120V AC, USB Cable, 2 x Ant B
Power Supply:	120 V AC
Comments:	Relay On/off- UWB Off

Full Spectrum



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Corr. (dB)
42.670000	18.55	40.00	21.45	120.000	16.0
64.200000	22.64	40.00	17.36	120.000	7.5
75.270000	20.52	40.00	19.48	120.000	6.7
87.850000	21.44	40.00	18.56	120.000	8.1
88.760000	24.35	43.50	19.15	120.000	8.1
94.030000	21.05	43.50	22.45	120.000	8.3
111.400000	27.68	43.50	15.82	120.000	8.2
117.710000	27.18	43.50	16.32	120.000	7.9
156.290000	21.83	43.50	21.67	120.000	9.0
171.540000	18.46	43.50	25.04	120.000	10.3
171.980000	17.74	43.50	25.76	120.000	10.3
197.740000	23.42	43.50	20.08	120.000	11.4
208.860000	24.41	43.50	19.09	120.000	11.6

1.3. Radiated emissions in the frequency range above 1000MHz

4.01

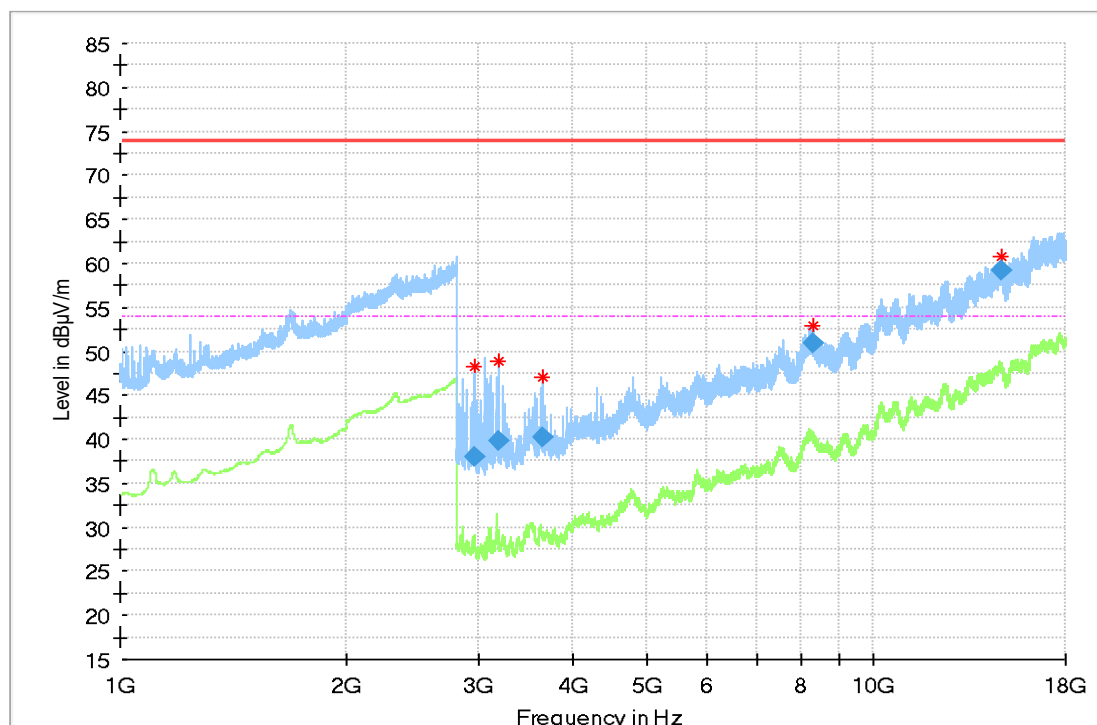
Common Information

Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109, class B
Operating Mode:	Relay On/Off, no TX
Equipment Class:	Class B
Environmental Conditions:	Humidity: 40% rH; Temperature: 19.7° C
Operator:	JVo

EUT Information

Manufacturer:	ELOKON GmbH
Model:	Stationery Panel
Type:	Indoor Warning System
EUT:	100868
HW version:	1.1
SW version:	1.1.0.4
Config:	Elo Shield Manager 1.1.9.8
Serial number:	18070046
Connected Interfaces:	CAN Bus, 120V AC, USB Cable, 2 x Ant B
Power Supply:	120V AC
Comments:	Relay On/off- UWB Off

Full Spectrum



Frequency (MHz)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Corr. (dB)
2960.020000	74.00	36.02	1000.000	H	-1.3
3173.100000	74.00	34.17	1000.000	V	-0.2
3629.460000	74.00	33.85	1000.000	H	0.5
8329.940000	74.00	23.13	1000.000	V	13.6
14826.820000	74.00	14.83	1000.000	H	22.8