

# Annex 1: Measurement diagrams to TEST REPORT No.: 18-1-0002701T01a

According to:

## FCC Regulations

Part 15.107

Part 15.109

for

Agilion GmbH

## WIRELESS TAG EPAPER 3 PULSE | PHASE

FCC-ID: SCF6032704

| Laboratory Accreditation and Listings                                                                                                                                                                                                                                                                                      |                                                                                                                                                                       |                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Deutsche<br>Akkreditierungsstelle<br>D-PL-12047-01-01<br>Accredited EMC-Test Laboratory                                                                                                                                             | <br>Industry Canada<br>Reg. No.: 3462D-1<br>Reg. No.: 3462D-2<br>Reg. No.: 3462D-3 | <br>Voluntary Controls for Electromagnetic<br>Emissions<br>Reg. No.:<br>R-20013, C-20009,<br>T-20006, G-20013 |
| <br>AUTHORIZED<br>RF LABORATORY                                                                                                                                                                                                         | <br>Authorized<br>Test Lab<br>Lab Code: 20011130-00                                | <br>MRA US-EU 0003                                                                                            |
| accredited according to DIN EN ISO/IEC 17025                                                                                                                                                                                                                                                                               |                                                                                                                                                                       |                                                                                                                                                                                                    |
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| Laboratory Accreditation and Listings                                                                                                                                                                                                                                                                                      |                                                                                                                                                                       |                                                                                                                                                                                                    |

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# 1. Radiated field strength measurements accord. §15.109

## 1.1. Field strength measurements 30MHz <f <1GHz

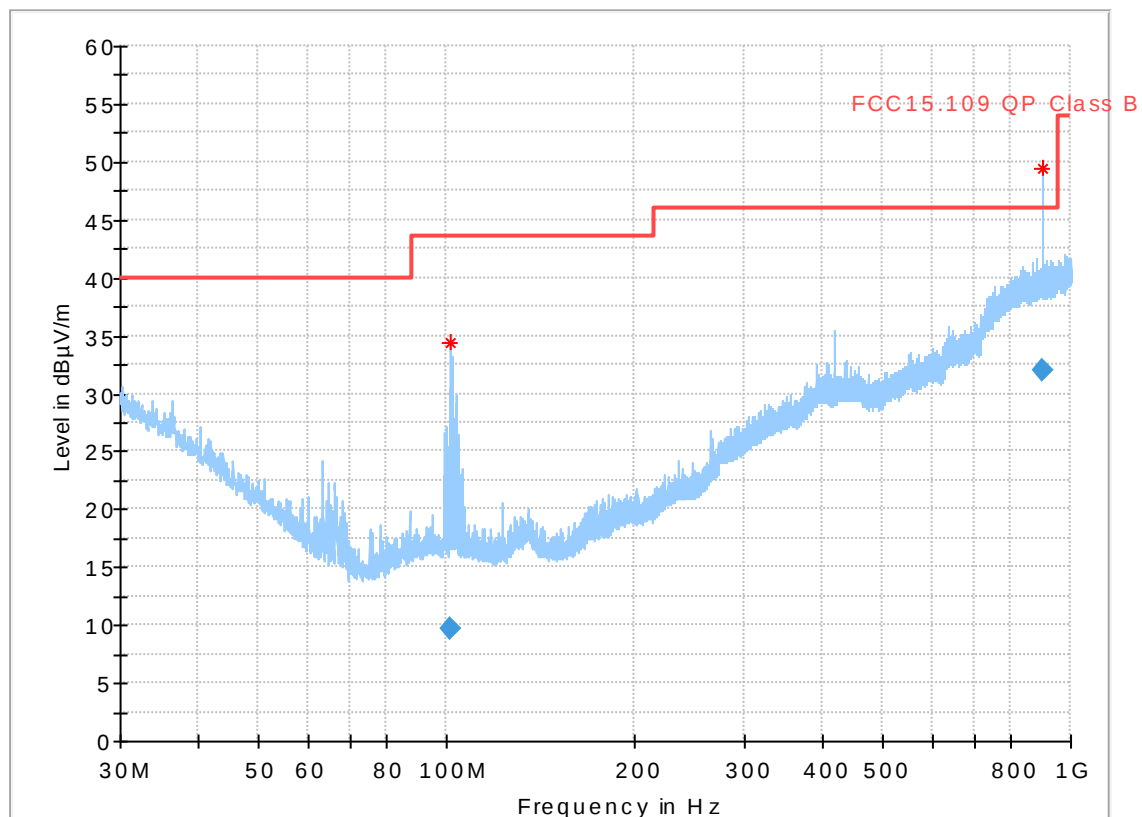
### 3.01\_15B

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| Test description:        | Date: 27.06.2018 Page 1 of 1                                       |
| Test site and distance:  | Electric Field Strength Measurement                                |
| Version of Testsoftware: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Distance correction:     | EMC32 V9.25.0                                                      |
| Technical Data:          | not used                                                           |
| Used filter:             | Please see page 2 for detailed data of measurement setup           |
| Test specification:      | not used                                                           |
| Operator:                | FCC15.109, class B; RSS-Gen.: Issue 4                              |
| Operating conditions:    | TFra                                                               |
| Measured sides of EUT:   | Humidity: 35%rH; Temperature: 20°C                                 |
|                          | front, right, rear, left                                           |

### EUT Information

|               |                             |
|---------------|-----------------------------|
| Manufacturer: | Agilion GmbH                |
| Product:      | Wireless Tag Epaper 3 Pulse |
| Power:        | 5V DC                       |
| EUT Model:    | tbd                         |
| HW version:   | tbd                         |
| SW version:   | tbd                         |
| Serial Nr:    | A48307                      |

Full Spectrum



### Final Result

| Frequency (MHz) | Quasi Peak (dBµ V/m) | Limit (dBµ V/m) | Margin (dB) | Meas. Time (ms) | Bandwidth h (kHz) | Height t (cm) | Pol | Azimuth h (deg) | Elevation n (deg) | Corr . (dB) |
|-----------------|----------------------|-----------------|-------------|-----------------|-------------------|---------------|-----|-----------------|-------------------|-------------|
| 101.438000      | 9.61                 | 43.50           | 33.89       | 1000.0          | 120.000           | 112.0         | H   | 269.0           | 90.0              | 8.1         |
| 902.342000      | 32.06                | 46.00           | 13.94       | 1000.0          | 120.000           | 359.0         | H   | 239.0           | 0.0               | 26.8        |

## 1.2. Field strength measurements $f < 18\text{GHz}$

### 4.01\_15B

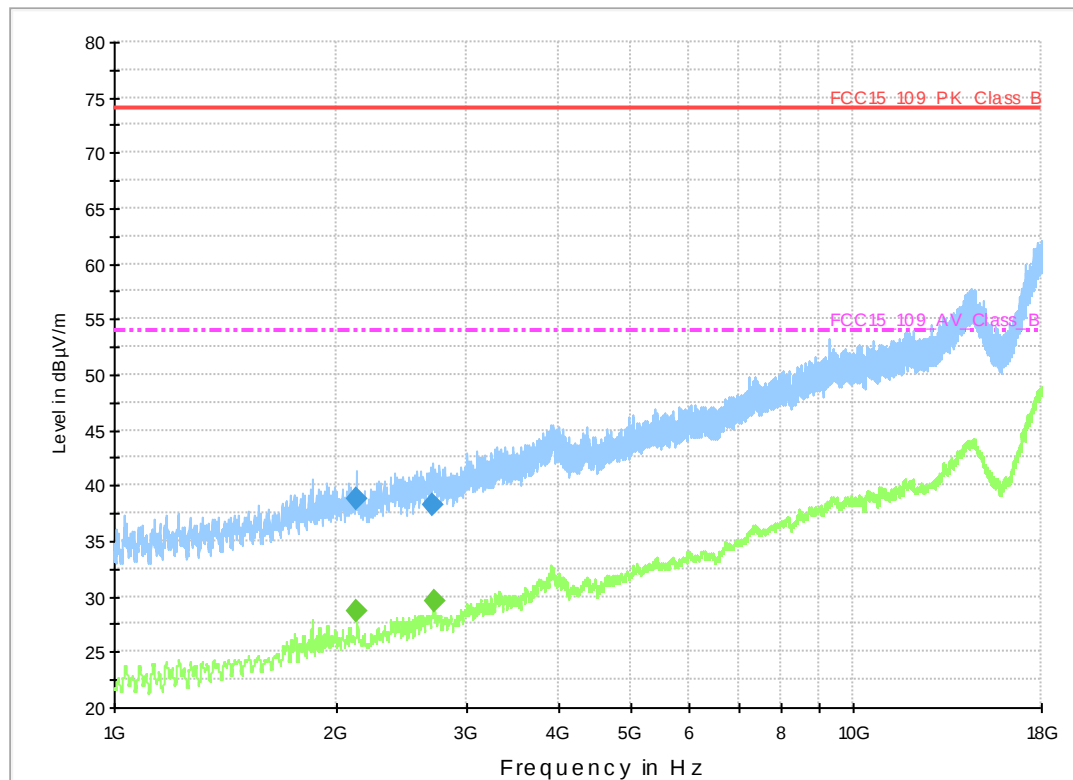
#### Common Information

|                           |                                              |
|---------------------------|----------------------------------------------|
| 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 / RSS-Gen., Issue 4 |
| Operating Mode:           | Operator, please fill in the operating mode  |
| Equipment Class:          | Class B                                      |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 25°C           |

#### EUT Information

|               |                             |
|---------------|-----------------------------|
| Manufacturer: | Agilion GmbH                |
| Product:      | Wireless Tag Epaper 3 Pulse |
| Power:        | 5V DC                       |
| EUT Model:    | tbd                         |
| HW version:   | tbd                         |
| SW version:   | tbd                         |
| Serial Nr:    | A48307                      |

030447\_FCC\_Part15.109\_Unint\_Rad\_Class\_B\_1G-18G\_FSU26\_OTa1



**Final Measurement Result 1**

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Polarization | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|------------------|------------------|-----------------|-----------------|--------------|---------------|-----------------|------------|
| 2126.674000     | 38.7             | ---              | 100.0           | 1000.000        | V            | 0.0           | 0.0             | -12.8      |
| 2693.202000     | 38.2             | ---              | 100.0           | 1000.000        | H            | -28.0         | 0.0             | -10.9      |

**Final Measurement Result 2**

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Polarization | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|------------------|------------------|-----------------|-----------------|--------------|---------------|-----------------|------------|
| 2132.054000     | ---              | 28.7             | 100.0           | 1000.000        | H            | 2.0           | 90.0            | -12.8      |
| 2714.590000     | ---              | 29.6             | 100.0           | 1000.000        | H            | 277.0         | 0.0             | -11.1      |