

Annex 4: Set-up photographs to
to T E S T R E P O R T
No.: 17-1-0264601T05

According to:
FCC Regulations
Part 15.517

for

Agilion GmbH

WIRELESS MESH GATEWAY PULSE | PHASE
Communication and Real time Location System

FCC ID: SCF6032502

Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION USA MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 ctia Authorized TM Test Lab Lab Code: 20011130-00		
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			

TABLE OF CONTENTS:

1. TRANSMISSION TIME MEASUREMENT	3
2. 10 DB BANDWIDTH MEASUREMENT	4
3. RADIATED RF-MEASUREMENTS SET-UP.....	5
3.1. Radiated Field Strength Emissions – 9 kHz to 30 MHz	5
3.2. Radiated Field Strength Emissions - 30 MHz to 960 MHz	6
3.3. Radiated Field Strength Emissions – 960 MHz – 3100 MHz and 10600 MHz – 18000 MHz	7
3.4. Radiated Field Strength Emissions –3100 MHz - 10600 MHz.....	9
3.5. Radiated Field Strength Emissions –18000 MHz – 40000 MHz	11
4. RADIATED EMISSIONS IN THE GPS BANDS	13
4.1. Frequency range 1164 MHz – 1240 MHz	13
4.2. Frequency range 1559 MHz – 1610 MHz	13
5. FUNDAMENTAL EMISSION PEAK POWER	13
6. GENERAL LIMIT - CONDUCTED EMISSIONS ON AC-POWER LINES, §15.209	14

1. Transmission time measurement



Photograph 1: Overall View



Photograph 2: Close View

2. 10 dB bandwidth measurement



Photograph 3: Overall View



Photograph 4: Close View

3. Radiated RF-Measurements Set-up

3.1. Radiated Field Strength Emissions – 9 kHz to 30 MHz



Photograph 5: Overall View

3.2. Radiated Field Strength Emissions - 30 MHz to 960 MHz

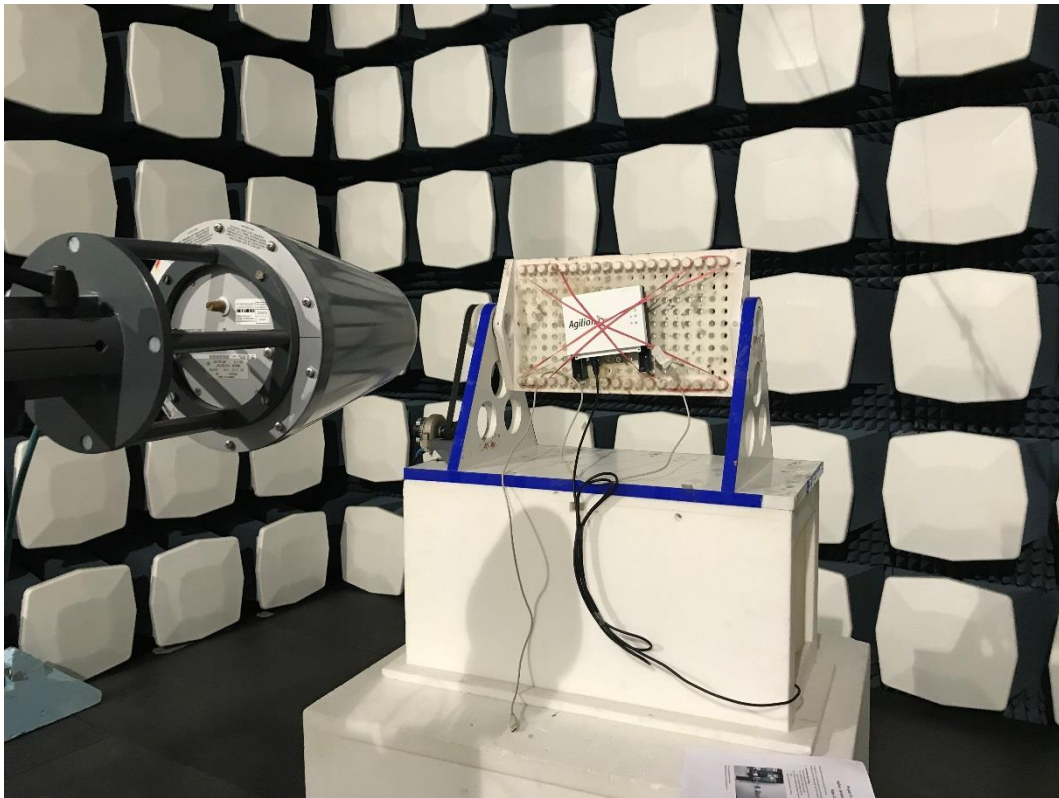


Photograph 6: Overall View

3.3. Radiated Field Strength Emissions – 960 MHz – 3100 MHz and 10600 MHz – 18000 MHz

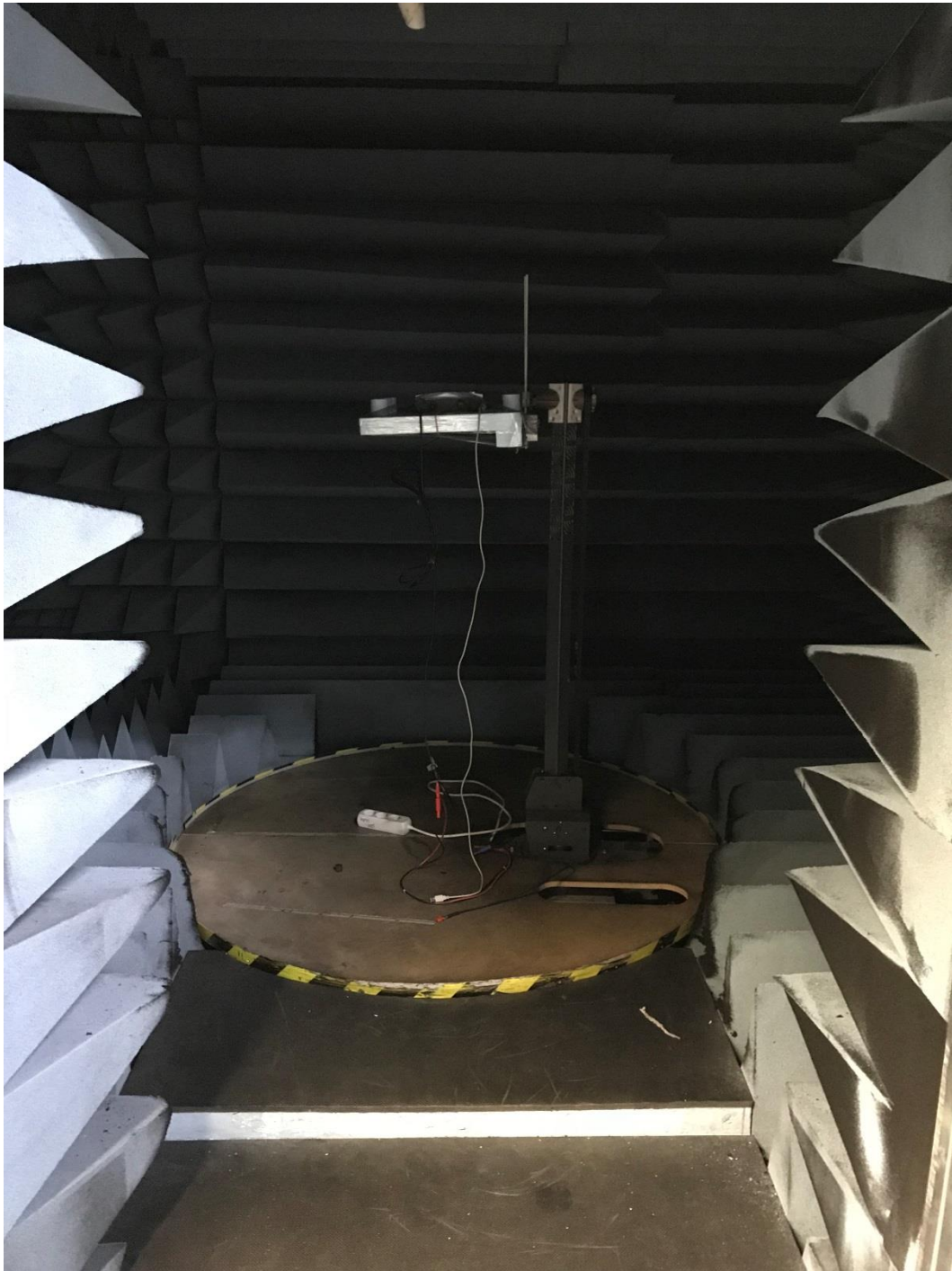


Photograph 7: Overall View



Photograph 8: Close View

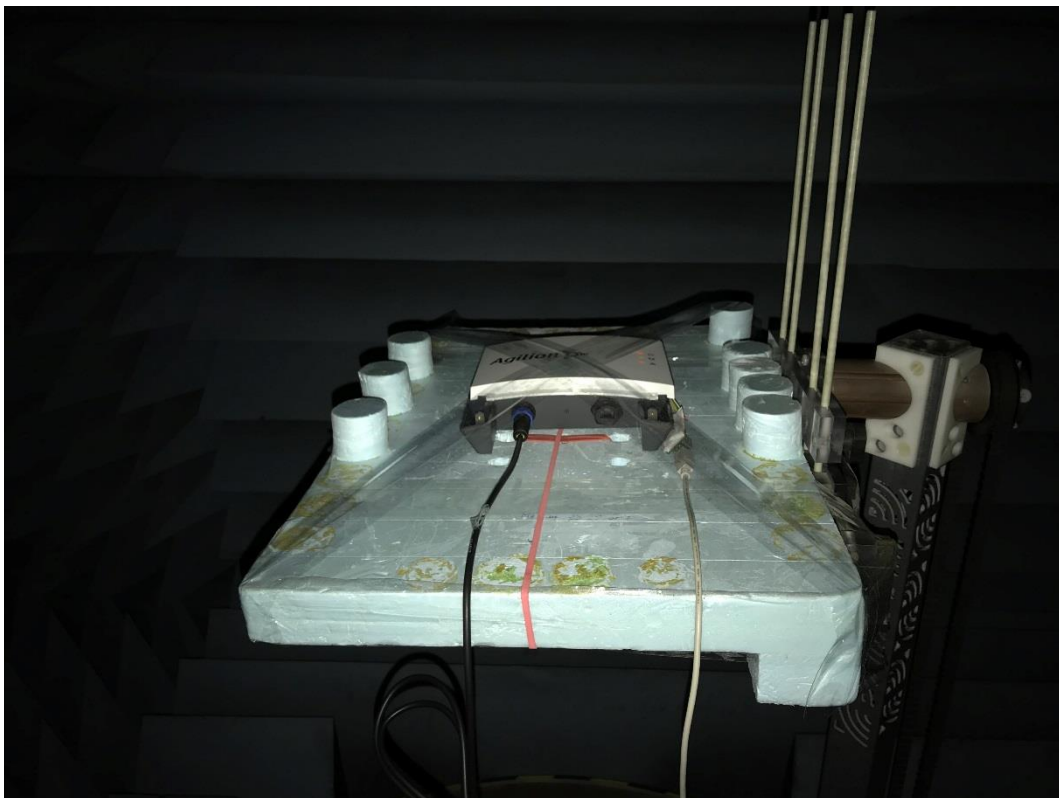
3.4. Radiated Field Strength Emissions –3100 MHz - 10600 MHz



Photograph 9: Overall View 1

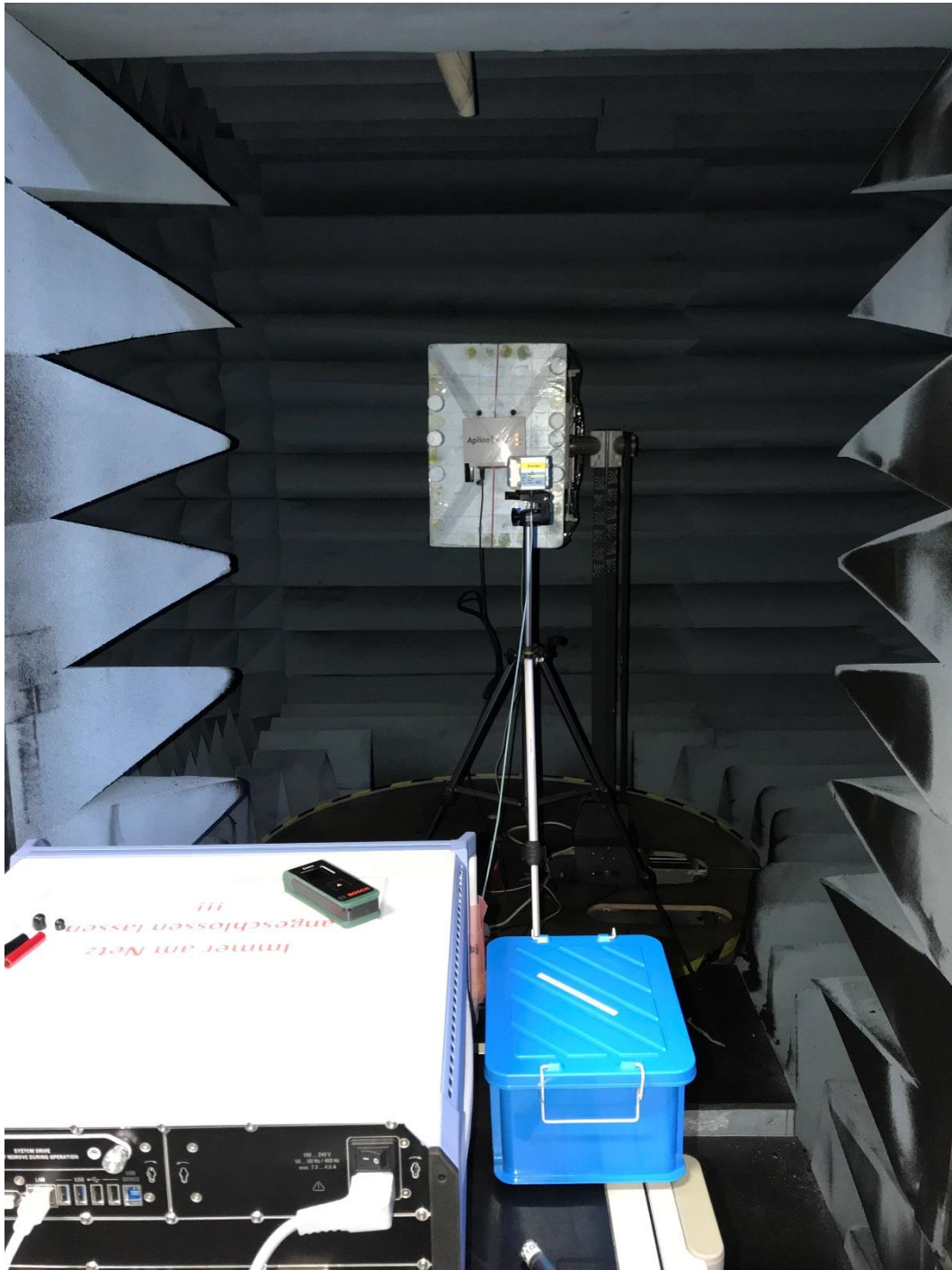


Photograph 10: Overall View 2

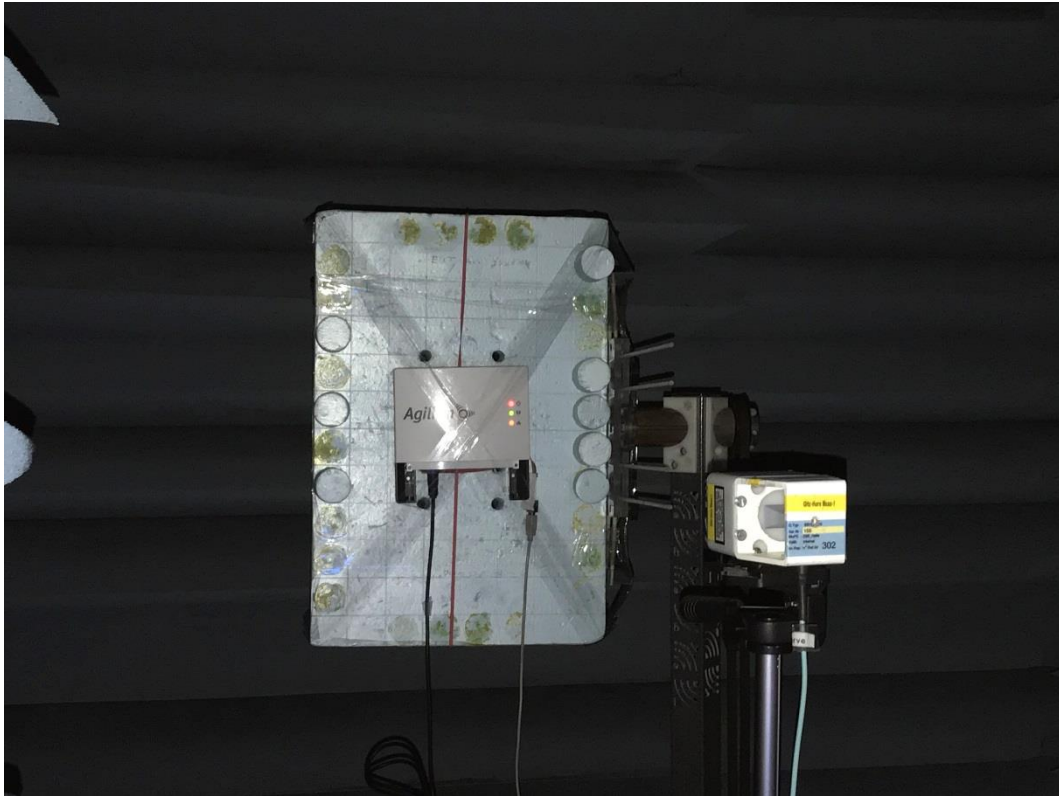


Photograph 11: Close View

3.5. Radiated Field Strength Emissions –18000 MHz – 40000 MHz



Photograph 12: Overall View



Photograph 13: Close View

4. Radiated emissions in the GPS bands

4.1. Frequency range 1164 MHz – 1240 MHz

See chapter 3.4.

4.2. Frequency range 1559 MHz – 1610 MHz

See chapter 3.4.

5. Fundamental emission peak power

See chapter 3.4.

6. General Limit - Conducted emissions on AC-Power lines, §15.209



Photograph 14: Overall View



Photograph 15: Close View