

Annex 1: Measurement results for TEST REPORT No.: 19-1-0103601T07-C1

According to: Title 47 CFR, Chapter I FCC Regulations, Subchapter A §15.247 (DTS)

> ISED-Regulations RSS-Gen, Issue 5 RSS 247 Issue 2 (DTS)

> > for

Continental Advanced Antenna GmbH

TRANSCVRP02 BT-Transceiver

FCC ID: 2ACC7TRANSCVRP02 ISED: 11980A-TRANSCVRP02

Laboratory Accreditation and Listings



Accredited EMC-Test Laboratory

accredited according to DIN EN ISO/IEC 17025

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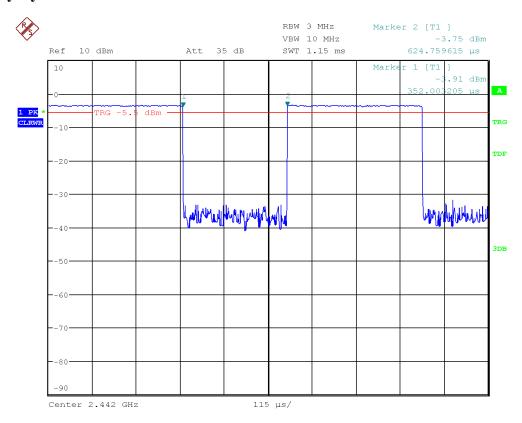
Table of contents

| 1. Conducted measurements on RF-antenna port | 3 |
|---|----|
| 1.1. Duty Cycle | |
| 1.2. Maximum Conducted Output Power (Average) | |
| 1.3. Maximum Conducted Output Power (Peak) | |
| 1.4. Minimum Emission Bandwidth 6 dB. | |
| 1.5. Power Spectral Density | 12 |
| 1.6. Occupied Channel Bandwidth 99% | 15 |
| 1.7. 20dBc Emissions | |
| 2. Radiated field strength measurements accord. §15.209&15.205 | 24 |
| 2.1. Magnetic field measurements f<30MHz | |
| 2.2. Field strength measurements 30MHz <f <1ghz<="" td=""><td>30</td></f> | 30 |
| 2.3. Field strength measurements f 1GHz - 18GHz | 37 |
| 2.4. Field strength measurements f 18GHz - 26GHz | 43 |
| 3. Radiated band-edge measurements accord. §15.209 & §15.205 (§15.247) | |



1. Conducted measurements on RF-antenna port

1.1. Duty Cycle



Duty Cycle for Channel 39 (2442 MHz)

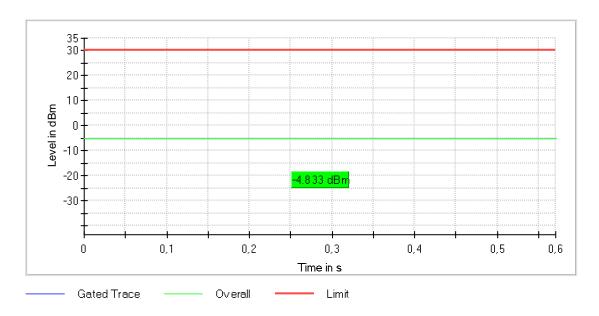


1.2. Maximum Conducted Output Power (Average)

RF output power (2402 MHz; 10,000 dBm; 1 MHz)

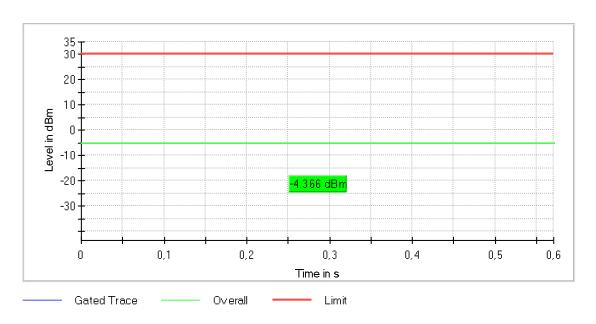
Result

| DUT Frequency | Gated RMS | Limit Max | Gated EIRP | DutyCycle | Result |
|---------------|-----------|-----------|------------|-----------|--------|
| (MHz) | (dBm) | (dBm) | (dBm) | (%) | |
| 2402.000000 | -4.8 | 30.0 | -4.8 | 56.952 | PASS |



RF output power (2442 MHz; 10,000 dBm; 1 MHz)

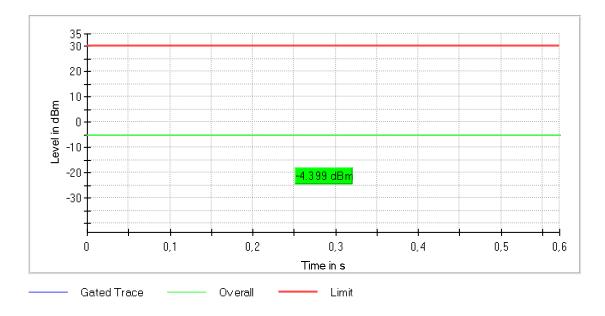
| | DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---|------------------------|--------------------|--------------------|---------------------|------------------|--------|
| Ī | 2440.000000 | -4.4 | 30.0 | -4.4 | 56.949 | PASS |





RF output power (2480 MHz; 10,000 dBm; 1 MHz)

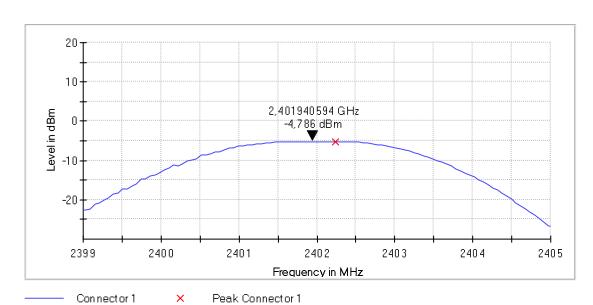
| DUT Frequency | Gated RMS | Limit Max | Gated EIRP | DutyCycle | Result |
|---------------|-----------|-----------|------------|-----------|--------|
| (MHz) | (dBm) | (dBm) | (dBm) | (%) | |
| 2442.000000 | -4.4 | 30.0 | -4.4 | 56.949 | PASS |





1.3. Maximum Conducted Output Power (Peak) Peak output power (Sweep) (2402 MHz; 10,000 dBm; 1 MHz)

| DUT Frequency | Peak Power | Limit Max | Result |
|---------------|------------|-----------|--------|
| (MHz) | (dBm) | (dBm) | |
| 2402,000000 | -4.8 | 30.0 | PASS |



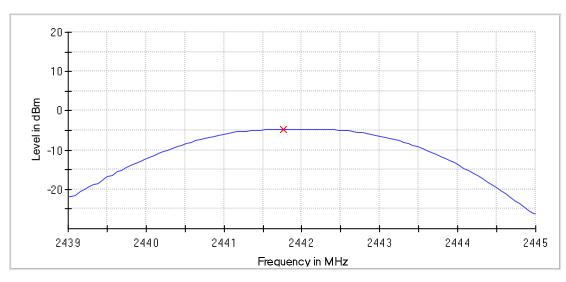
| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|--------------|
| Start Frequency | 2.39900 GHz | 2.39900 GHz |
| Stop Frequency | 2.40500 GHz | 2.40500 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 2.000 MHz | >= 1.000 MHz |
| VBW | 10.000 MHz | >= 6.000 MHz |
| SweepPoints | 101 | ~ 101 |
| Sweeptime | 1.000 ms | AUTO |
| Reference Level | 10.000 dBm | 10.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3/3 | 3 |
| Max Stable Difference | 0.08 dB | 0.50 dB |



Peak output power (Sweep) (2442 MHz; 10,000 dBm; 1 MHz)

Result

| DUT Frequency | Peak Power | Limit Max | Result |
|---------------|------------|-----------|--------|
| (MHz) | (dBm) | (dBm) | |
| 2442.000000 | -4.2 | 30.0 | PASS |



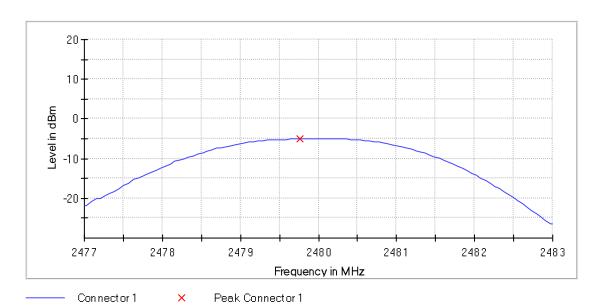
——— Connector1 × Peak Connector1

| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|--------------|
| Start Frequency | 2.43900 GHz | 2.43900 GHz |
| Stop Frequency | 2.44500 GHz | 2.44500 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 2.000 MHz | >= 1.000 MHz |
| VBW | 10.000 MHz | >= 6.000 MHz |
| SweepPoints | 101 | ~ 101 |
| Sweeptime | 1.000 ms | AUTO |
| Reference Level | 10.000 dBm | 10.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3/3 | 3 |
| Max Stable Difference | 0.10 dB | 0.50 dB |



Peak output power (Sweep) (2480 MHz; 10,000 dBm; 1 MHz)

| DUT Frequency | Peak Power | Limit Max | Result |
|---------------|------------|-----------|--------|
| (MHz) | (dBm) | (dBm) | |
| 2480.000000 | -4.8 | 30.0 | PASS |



| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|--------------|
| Start Frequency | 2.47700 GHz | 2.47700 GHz |
| Stop Frequency | 2.48300 GHz | 2.48300 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 2.000 MHz | >= 1.000 MHz |
| VBW | 10.000 MHz | >= 6.000 MHz |
| SweepPoints | 101 | ~ 101 |
| Sweeptime | 1.000 ms | AUTO |
| Reference Level | 10.000 dBm | 10.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 6 / max. 150 | max. 150 |
| Stable | 3/3 | 3 |
| Max Stable Difference | 0.14 dB | 0.50 dB |



1.4. Minimum Emission Bandwidth 6 dB

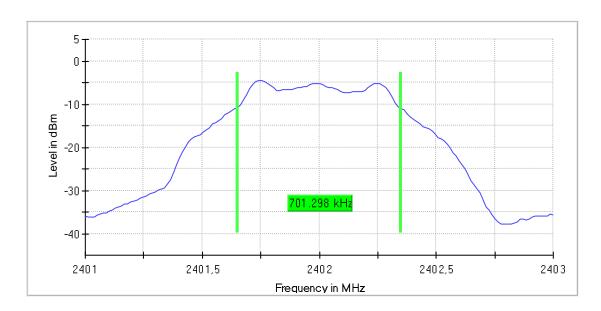
Minimum Emission Bandwidth 6 dB (2402 MHz; 10,000 dBm; 1 MHz)

6 dB Bandwidth

| DUT Frequency | Bandwidth | Limit Min | Limit Max | Band Edge Left | Band Edge Right |
|---------------|-----------|-----------|-----------|----------------|-----------------|
| (MHz) | (MHz) | (MHz) | (MHz) | (MHz) | (MHz) |
| 2402.000000 | 0.701298 | 0.500000 | | 2401.649351 | |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|------------------------|--------------------|--------|
| 2402.000000 | -4.6 | PASS |



| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|---------------|
| Start Frequency | 2.40100 GHz | 2.40100 GHz |
| Stop Frequency | 2.40300 GHz | 2.40300 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 155 | ~ 40 |
| Sweeptime | 2.500 ms | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 15.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 8 / max. 150 | max. 150 |
| Stable | 5/5 | 5 |
| Max Stable Difference | 0.01 dB | 0.50 dB |



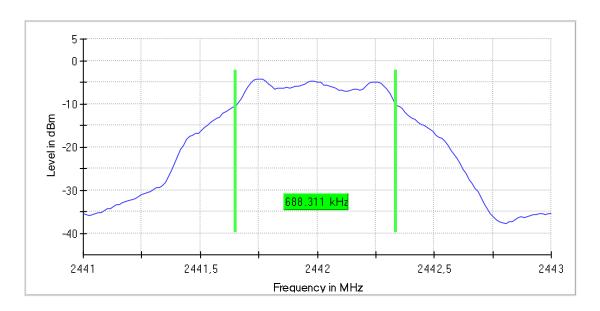
Minimum Emission Bandwidth 6 dB (2442 MHz; 10,000 dBm; 1 MHz)

6 dB Bandwidth

| DUT Frequency | Bandwidth | Limit Min | Limit Max | Band Edge Left | Band Edge Right |
|---------------|-----------|-----------|-----------|----------------|-----------------|
| (MHz) | (MHz) | (MHz) | (MHz) | (MHz) | (MHz) |
| 2442.000000 | 0.688311 | 0.500000 | | 2441.649351 | |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|------------------------|--------------------|--------|
| 2442.000000 | -4.2 | PASS |



| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|---------------|
| Start Frequency | 2.44100 GHz | 2.44100 GHz |
| Stop Frequency | 2.44300 GHz | 2.44300 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 155 | ~ 40 |
| Sweeptime | 2.500 ms | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 15.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 8 / max. 150 | max. 150 |
| Stable | 5/5 | 5 |
| Max Stable Difference | 0.04 dB | 0.50 dB |



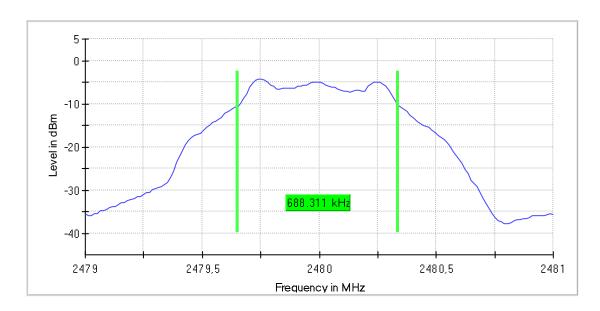
Minimum Emission Bandwidth 6 dB (2480 MHz; 10,000 dBm; 1 MHz)

6 dB Bandwidth

| DUT Frequency | Bandwidth | Limit Min | Limit Max | Band Edge Left | Band Edge Right |
|---------------|-----------|-----------|-----------|----------------|-----------------|
| (MHz) | (MHz) | (MHz) | (MHz) | (MHz) | (MHz) |
| 2480.000000 | 0.688311 | 0.500000 | | 2479.649351 | |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|------------------------|--------------------|--------|
| 2480.000000 | -4.4 | PASS |



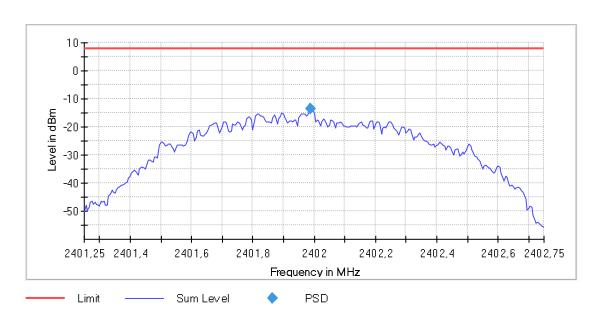
| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|---------------|
| Start Frequency | 2.47900 GHz | 2.47900 GHz |
| Stop Frequency | 2.48100 GHz | 2.48100 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 155 | ~ 40 |
| Sweeptime | 2.500 ms | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 15.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 6 / max. 150 | max. 150 |
| Stable | 5/5 | 5 |
| Max Stable Difference | 0.10 dB | 0.50 dB |



1.5. Power Spectral Density

Peak Power Spectral Density (2402 MHz; 10,000 dBm; 1 MHz)

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max | Result |
|------------------------|--------------------|--------------|--------------|--------|
| , , | , , | , , | (dBm) | |
| 2402.000000 | 2401.990000 | -13.541 | 8.0 | PASS |

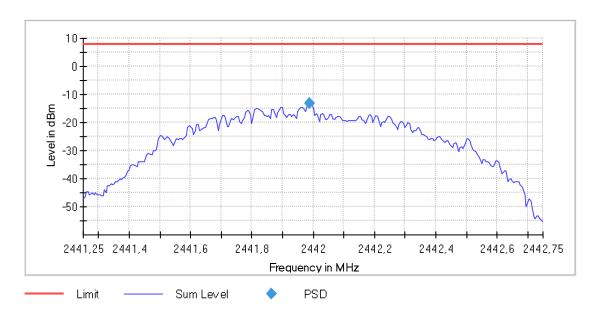


| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|---------------|
| Start Frequency | 2.40125 GHz | 2.40125 GHz |
| Stop Frequency | 2.40275 GHz | 2.40275 GHz |
| Span | 1.500 MHz | 1.500 MHz |
| RBW | 10.000 kHz | <= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 301 | ~ 300 |
| Sweeptime | 60.000 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 25.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 3 / max. 150 | max. 150 |
| Stable | 2/2 | 2 |
| Max Stable Difference | 0.00 dB | 0.50 dB |



Peak Power Spectral Density (2442 MHz; 10,000 dBm; 1 MHz)

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|------------------------|--------------------|--------------|-----------------------|--------|
| 2442.000000 | 2441.990000 | -13.048 | 8.0 | PASS |

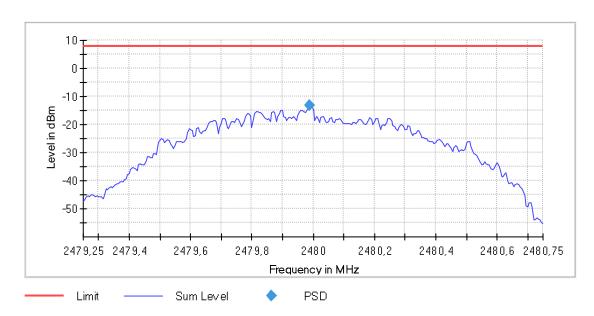


| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|---------------|
| Start Frequency | 2.44125 GHz | 2.44125 GHz |
| Stop Frequency | 2.44275 GHz | 2.44275 GHz |
| Span | 1.500 MHz | 1.500 MHz |
| RBW | 10.000 kHz | <= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 301 | ~ 300 |
| Sweeptime | 60.000 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 25.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 3 / max. 150 | max. 150 |
| Stable | 2/2 | 2 |
| Max Stable Difference | 0.18 dB | 0.50 dB |



Peak Power Spectral Density (2480 MHz; 10,000 dBm; 1 MHz)

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|------------------------|--------------------|--------------|-----------------------|--------|
| 2480.000000 | 2479.990000 | -13.383 | 8.0 | PASS |



| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|---------------|
| Start Frequency | 2.47925 GHz | 2.47925 GHz |
| Stop Frequency | 2.48075 GHz | 2.48075 GHz |
| Span | 1.500 MHz | 1.500 MHz |
| RBW | 10.000 kHz | <= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 301 | ~ 300 |
| Sweeptime | 60.000 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 25.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 3 / max. 150 | max. 150 |
| Stable | 2/2 | 2 |
| Max Stable Difference | 0.18 dB | 0.50 dB |



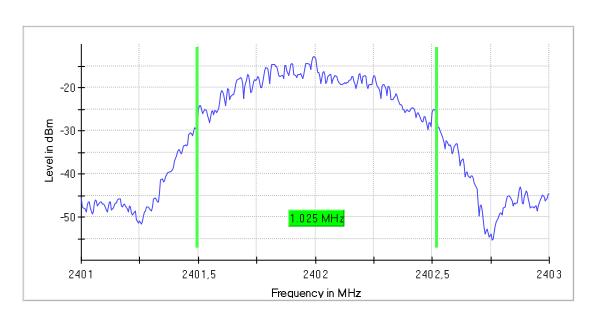
1.6. Occupied Channel Bandwidth 99% Occupied Channel Bandwidth 99% (2402 MHz; 10,000 dBm; 1 MHz)

99 % Bandwidth

| DUT Frequency | Bandwidth | Limit Min | Limit Max | Band Edge Left | Band Edge Right |
|---------------|-----------|-----------|-----------|----------------|-----------------|
| (MHz) | (MHz) | (MHz) | (MHz) | (MHz) | (MHz) |
| 2402.000000 | 1.025000 | | | 2401.495000 | |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|------------------------|--------|
| 2402.000000 | PASS |



| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|---------------|
| Start Frequency | 2.40100 GHz | 2.40100 GHz |
| Stop Frequency | 2.40300 GHz | 2.40300 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 10.000 kHz | >= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 401 | ~ 400 |
| Sweeptime | 80.000 ms | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 15.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3/3 | 3 |
| Max Stable Difference | 0.18 dB | 0.30 dB |



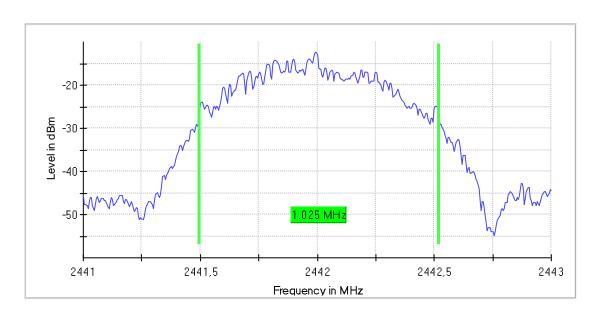
Occupied Channel Bandwidth 99% (2442 MHz; 10,000 dBm; 1 MHz)

99 % Bandwidth

| DUT Frequency | Bandwidth | Limit Min | Limit Max | Band Edge Left | Band Edge Right |
|---------------|-----------|-----------|-----------|----------------|-----------------|
| (MHz) | (MHz) | (MHz) | (MHz) | (MHz) | (MHz) |
| 2442.000000 | 1.025000 | | | 2441.495000 | 2442.520000 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|------------------------|--------|
| 2442.000000 | PASS |



| Setting | Instrument Value | Target Value |
|-----------------------|---------------------|---------------|
| Start Frequency | 2.44100 GHz | 2.44100 GHz |
| Stop Frequency | 2.44300 GHz | 2.44300 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 10.000 kHz | >= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 401 | ~ 400 |
| Sweeptime | 80.000 ms | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 15.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 5 / max. 150 | max. 150 |
| Stable | 3/3 | 3 |
| Max Stable Difference | 0.13 dB | 0.30 dB |



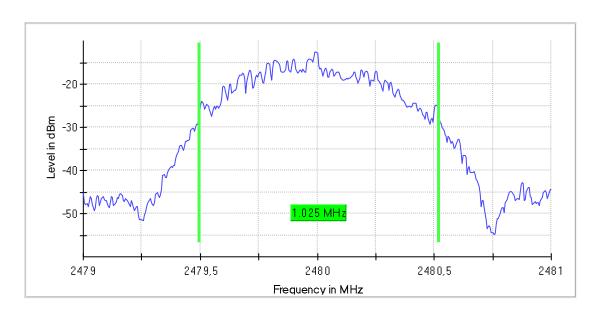
Occupied Channel Bandwidth 99% (2480 MHz; 10,000 dBm; 1 MHz)

99 % Bandwidth

| DUT Frequency | Bandwidth | Limit Min | Limit Max | Band Edge Left | Band Edge Right |
|---------------|-----------|-----------|-----------|----------------|-----------------|
| (MHz) | (MHz) | (MHz) | (MHz) | (MHz) | (MHz) |
| 2480.000000 | 1.025000 | | | 2479.495000 | |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|------------------------|--------|
| 2480.000000 | PASS |



| Setting | Instrument | Target Value |
|-----------------------|--------------|---------------|
| | Value | |
| Start Frequency | 2.47900 GHz | 2.47900 GHz |
| Stop Frequency | 2.48100 GHz | 2.48100 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 10.000 kHz | >= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 401 | ~ 400 |
| Sweeptime | 80.000 ms | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 15.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3/3 | 3 |
| Max Stable Difference | 0.17 dB | 0.30 dB |



1.7. 20dBc Emissions

Measurements done for Port1

→ values 3dB higher than the plots.

1.7.1. Channel 01

1.7.1.1. Channel 01 Reference

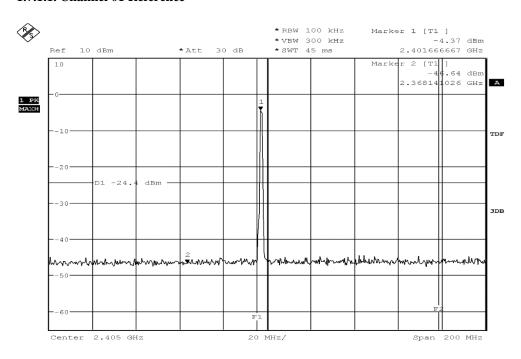


Diagram 1: Channel 01

1.7.1.2. Sweep 1: 150kHz to 30MHz

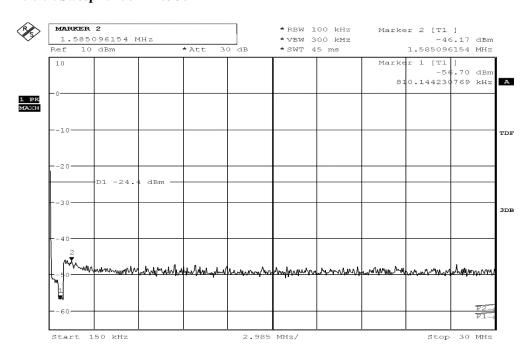
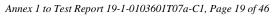


Diagram 2: Channel 01

1.7.1.3. Sweep 2: 30MHz to 2.8GHz





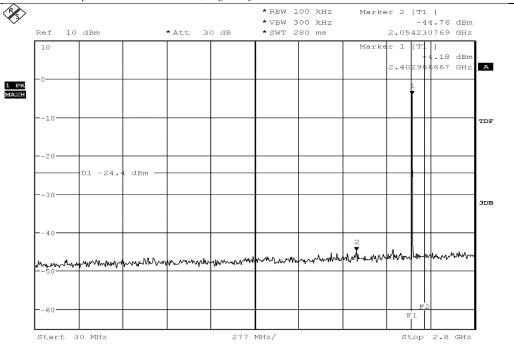


Diagram 3: Channel 01

1.7.1.4. Sweep 2: 2.8GHz to 26GHz

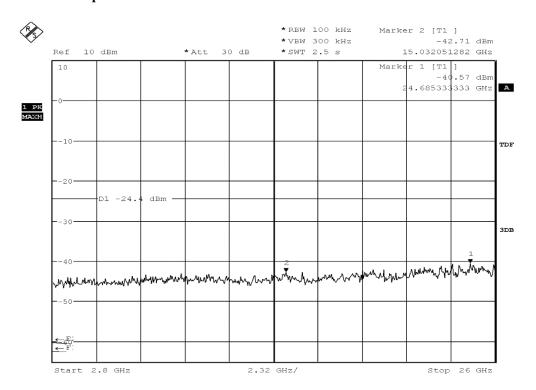


Diagram 4: Channel 01



1.7.2. Channel 20

1.7.2.1. Channel 20 Reference

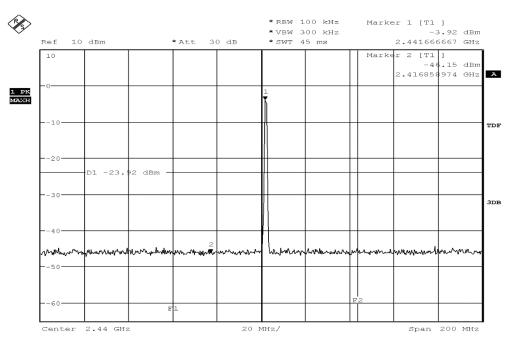


Diagram 5: Channel 20

1.7.2.2. Sweep 1: 150kHz to 30MHz

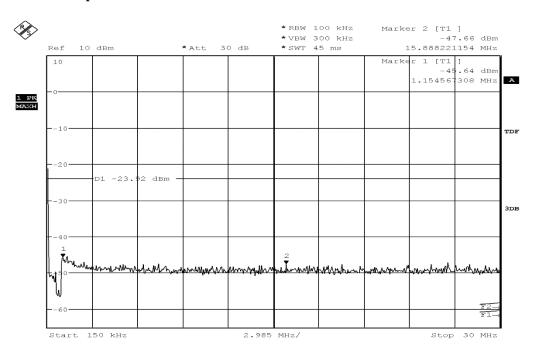


Diagram 6: Channel 20



1.7.2.3. Sweep 2: 30MGHz to 2.8GHz

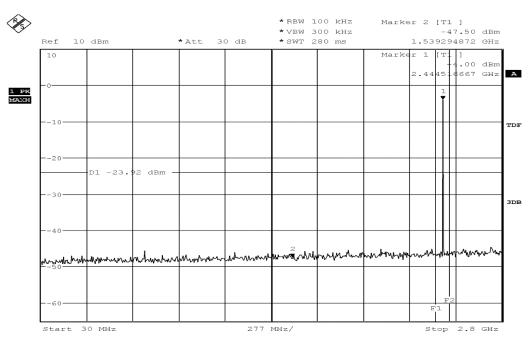


Diagram 7: Channel 20

1.7.2.4. Sweep 3: 2.8GHz to 26GHz

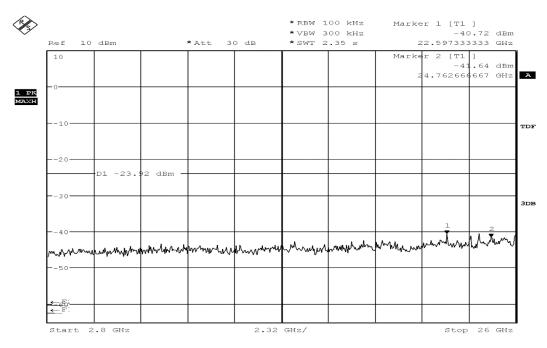


Diagram 8: Channel 20



1.7.3. Channel 39

1.7.3.1. Channel 39 Reference

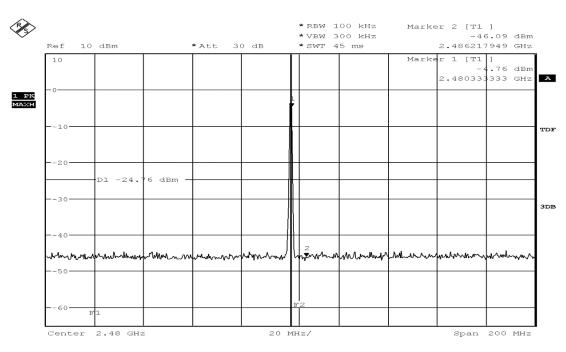


Diagram 9: Channel 39

1.7.3.2. Sweep 1: 150kHz to 30MHz

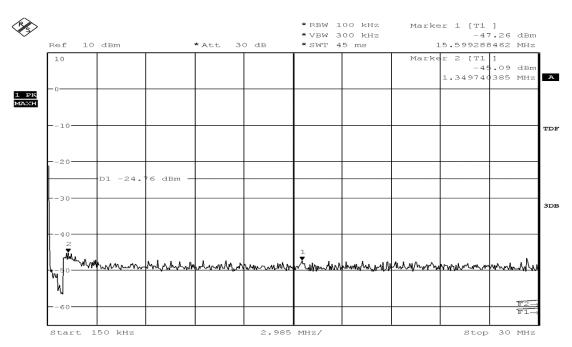
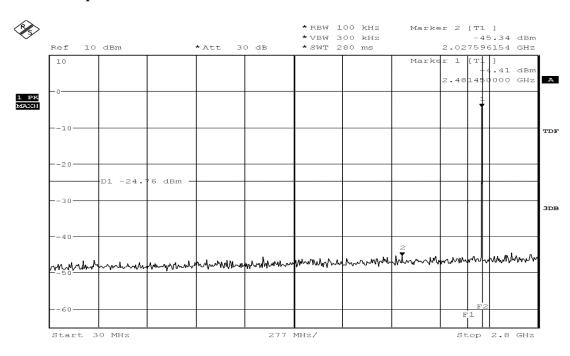


Diagram 10: Channel 39



1.7.3.3. Sweep 2: 30MHz to 2.8GHz



Date: 20.AUG.2019 13:22:59

Diagram 11: Channel 39

1.7.3.4. Sweep 3: 2.8GHz to 26GHz

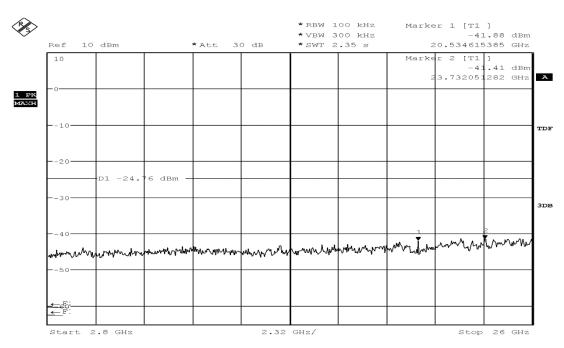


Diagram 12: Channel 39



2. Radiated field strength measurements accord. §15.209&15.205

2.1. Magnetic field measurements f<30MHz

2.01a_BT_LE_low_Standing

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: TFA

Operating Mode: BT-LE| GFSK | 1Mbit | low Channel 2402 MHz
Environmental Conditions:: Humidity: 56%rH; Temperature: 21,7°C

EUT Setup: Standing

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: Config:

Serial number:

000045

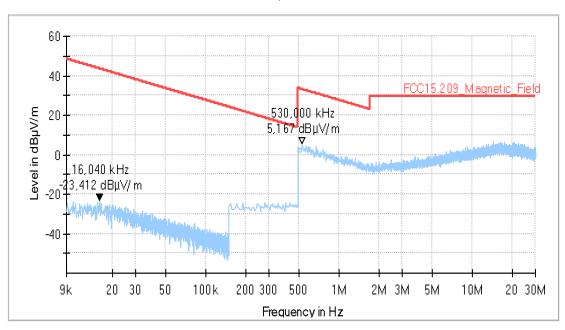
Connected Interfaces:

Power Supply:

Date received: 13.08.2019

Comments:

Full Spectrum



→ No remarkable peaks noticeable only noise floor



2.01b_BT_LE_low_laying

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: MKh/

Operating Mode: BT-LE| GFSK | 1Mbit | low Channel 2402 MHz

Power during tests: 12V DC

Environmental Conditions:: Humidity: 54,6%rH; Temperature: 21,6°C

EUT Setup: Laying

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

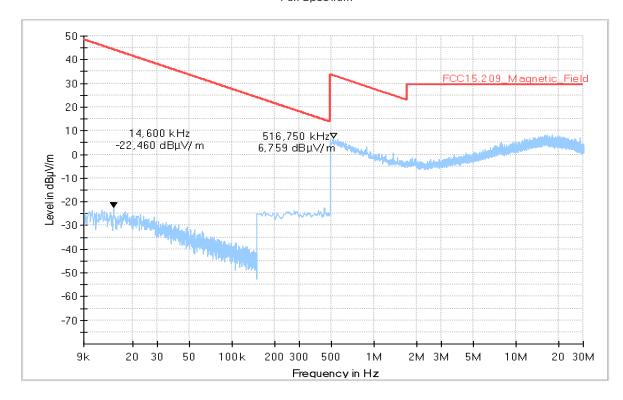
Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: -Power Supply: 12 VDC

Power Supply: 12 VDC Date received: 13.08.2019





2.02a_BT_LE_Mid_Standing

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: TFA

Operating Mode: Bluetooth LE - Mid Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 56%rH; Temperature: 21,8°C

EUT Setup: Standing Verdict: Initial

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

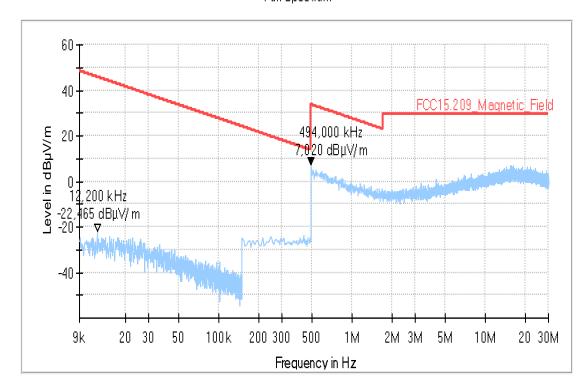
Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: --

Power Supply: 12 VDC Date received: 13.08.2019





2.02b_BT_LE_Mid_Laying

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: TFA

Operating Mode: Bluetooth LE - Mid Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 56%rH; Temperature: 21,9°C

EUT Setup: Laying Verdict: Initial

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

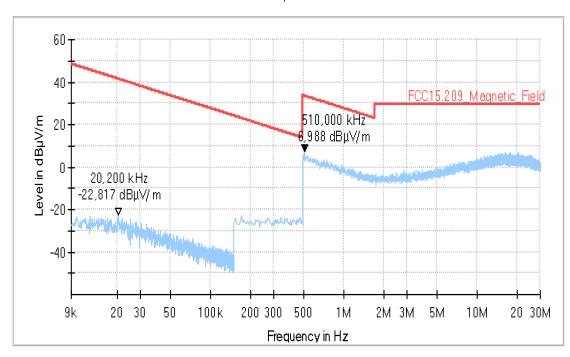
Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: --

Power Supply: 12 VDC Date received: 13.08.2019





2.03a_BT_LE_High_Standing

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: TFA

Operating Mode: Bluetooth LE - high Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 56%rH; Temperature: 21,9°C

EUT Setup: Standing Verdict: Initial

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

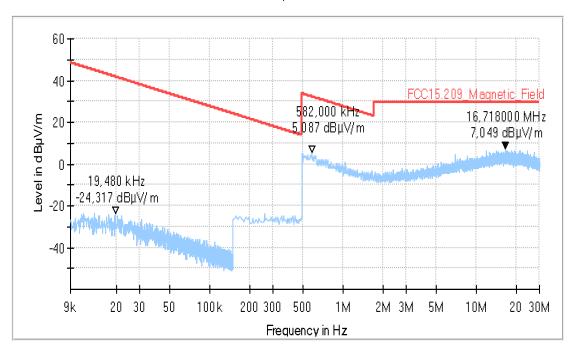
Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: -Power Supply: 12V DC

Power Supply: 12V DC Date received: 13.08.2019





2.03b_BT_LE_High_Laying

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: TFA

Operating Mode: Bluetooth LE - high Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 51,6%rH; Temperature: 21,9°C

EUT Setup: Laying Verdict: Initial

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

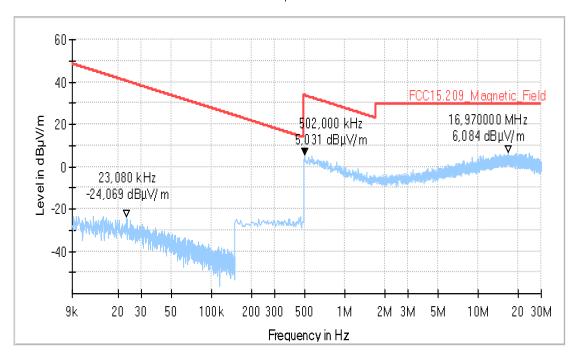
Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: --

Power Supply: 12V DC Date received: 13.08.2019





2.2. Field strength measurements 30MHz <f <1GHz

3.00_Reference_Measurement_30MHz-1GHz

Common Information

Test Description: Electric Field Strength Measurement

Test Site Location: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0 Distance correction: not used Used Filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

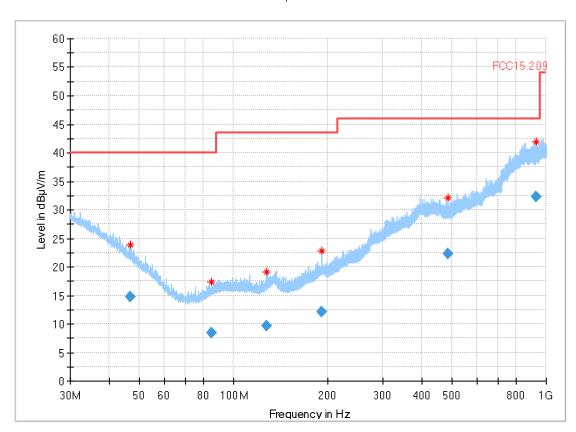
Test Standard.: FCC 15.209; RSS-Gen: Issue 5

Operator: MKh

Operating Mode: Leer Messung/ Reference measurement Environmental Conditions:: Humidity: 52%rH; Temperature: 20°C

Verdict: Passed

Full Spectrum



Final_Result

| Frequency (MHz) | QuasiP eak (dBµV/ m) | Limit (dBµV/ m) | Margin (dB) | Bandwidt h (kHz) | Heigh t (cm) | Pol | Azimut h (deg) | Corr. (dB) |
|--------------------|-------------------------------|-----------------------|----------------|------------------------|--------------------|-----|----------------------|---------------|
| 46.676000 | 14.76 | 40.00 | 25.24 | 120.000 | 294.0 | V | 98.0 | 14.4 |
| 84.664000 | 8.50 | 40.00 | 31.50 | 120.000 | 200.0 | Н | 240.0 | 7.7 |
| 127.356000 | 9.63 | 43.50 | 33.87 | 120.000 | 352.0 | V | 211.0 | 8.6 |
| 191.036000 | 12.04 | 43.50 | 31.46 | 120.000 | 134.0 | Н | 70.0 | 11.5 |
| 485.828000 | 22.30 | 46.00 | 23.70 | 120.000 | 175.0 | Н | 0.0 | 19.5 |
| 927.688000 | 32.21 | 46.00 | 13.79 | 120.000 | 223.0 | ٧ | 244.0 | 27.0 |



3.01a_BT_LE_low_standing

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

Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 5

Operator: RAbdurrahi

Operating Mode: Bluetooth LE-low Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 46,3%rH; Temperature: 21,2°C

EUT Setup: Standing
Verdict: Initial

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

 SVN:
 -

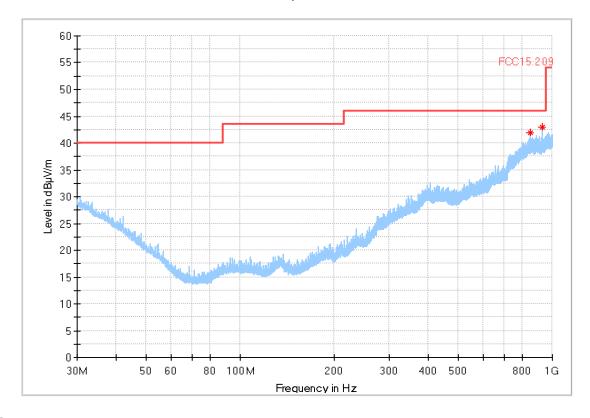
 Config:
 -

 Serial number:
 000045

 Power Supply:
 12V DC

 Date received:
 13.08.2019

Full Spectrum



→ No remarkable peaks noticeable only noise floor



3.01b_BT_LE_low_laying

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

Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 5

Operator: RAbdurrahi

Operating Mode: Bluetooth LE-low Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 45,9%rH; Temperature: 21,1°C

EUT Setup: Laying Verdict: Passed

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

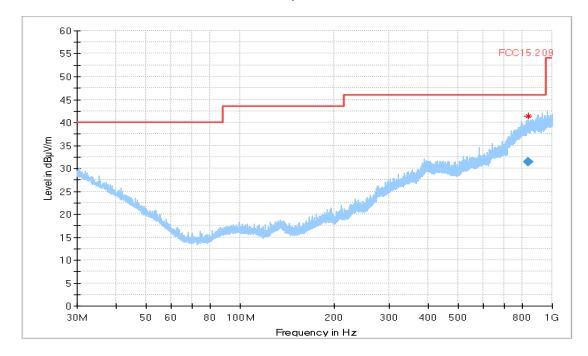
HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: --

Power Supply: 12V DC Date received: 13.08.2019

Full Spectrum



Final_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|--------------------|-----------------------|-------------------|----------------|--------------------|-------------|-----|---------------|------------|
| 839.196000 | 31.45 | 46.00 | 14.55 | 120.000 | 292.0 | V | 109.0 | 26.1 |



3.02a_BT_LE_mid_standing

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

Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 5

Operator: RAbdurrahi

Operating Mode: Bluetooth LE - Mid Channel-2442 MHz

Power during tests: 12V DC

Environmental Conditions:: Humidity: 46,8%rH; Temperature: 21,3°C

EUT Setup: Standing Verdict: Initial

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

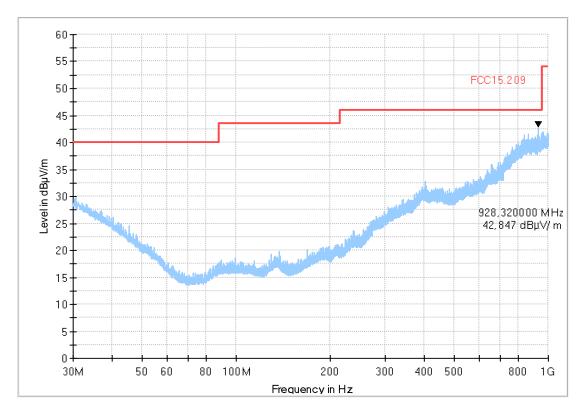
HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: -Paymer Symples: 12V DC

Power Supply: 12V DC Date received: 13.08.2019

Full Spectrum



→ No remarkable peaks noticeable only noise floor



3.02b_BT_LE_mid_laying

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

Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 5

Operator: RAbdurrahi

Operating Mode: Bluetooth LE - Mid Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 46,7%rH; Temperature: 21,5°C

EUT Setup: Laying Verdict: Passed

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

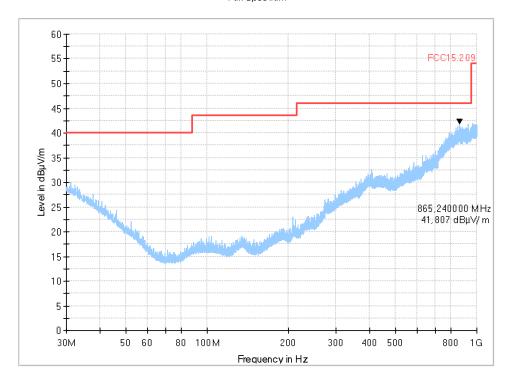
HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: -Power Supply: 12V DC

Power Supply: 12V DC Date received: 13.08.2019

Full Spectrum



→ No remarkable peaks noticeable only noise floor



3.03a_BT_LE_high_standing

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

Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 5

Operator: RAbdurrahi

Operating Mode: Bluetooth LE - high Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 46,7%rH; Temperature: 21,7°C

EUT Setup: Standing Verdict: Passed

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

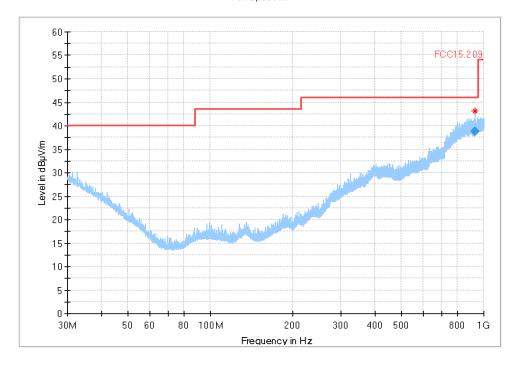
HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: --

Power Supply: 12V DC
Date received: 13.08.2019

Full Spectrum



Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|--------------------|-----------------------|-------------------|----------------|--------------------|-------------|-----|---------------|---------------|
| 928.336000 | 38.77 | 46.00 | 7.23 | 120.000 | 235.0 | V | 47.0 | 27.0 |



3.03b_BT_LE_high_laying

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

Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 5

Operator: RAbdurrahi

Operating Mode: Bluetooth LE - high Channel

Power during tests: 12V DC

Environmental Conditions:: Humidity: 46,6%rH; Temperature: 21,6°C

EUT Setup: Laying Verdict: Passed

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

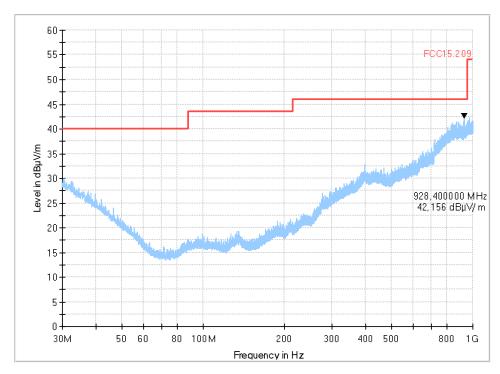
HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: -Power Supply: 12V DC

Power Supply: 12V DC Date received: 13.08.2019

Full Spectrum



→ No remarkable peaks noticeable only noise floor



2.3. Field strength measurements f 1GHz - 18GHz

4.01_BT_LE_low

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical
Operating Mode: low (2402MHz | ch low)

Operator: HEI

Comment: BLE_TX: Ch 0

EUT Setup:

Verdict: Passed

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

HW version: 01S

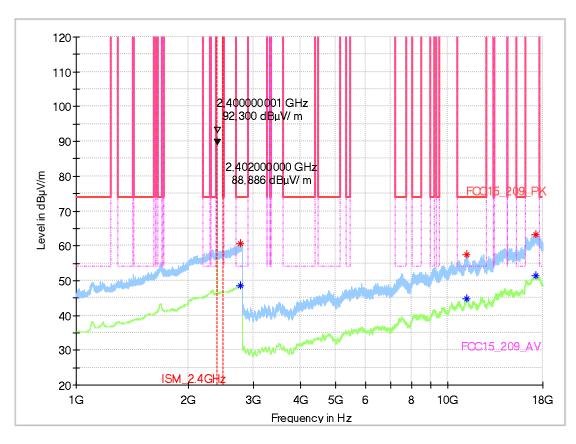
SW version: BT:STACK: 01.03.05

Serial number: 000045

Power Supply:

Date received: 13.08.2019

Full Spectrum



→ No remarkable peaks noticeable only noise floor



Marker_Freqs

| markor_r rodo | | | | | | | | | |
|--------------------|---------------------|-----------------|-------------------|----------------|----------------|-----|------------------|--------------------|-----------------|
| Frequency (MHz) | MaxPeak (dBµV/m) | RMS (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB/m) |
| 2766.800000 | | 48.61 | 54.00 | 5.39 | 155.0 | Н | 135.0 | 90.0 | 39 |
| 2773.200000 | 60.53 | | 74.00 | 13.47 | 155.0 | Н | 0.0 | 0.0 | 39 |
| 11222.400000 | | 44.73 | 54.00 | 9.27 | 155.0 | Н | 225.0 | 0.0 | 20 |
| 11238.000000 | 57.40 | | 74.00 | 16.60 | 155.0 | V | 315.0 | 0.0 | 20 |
| 17187.600000 | - | 51.37 | 150.00 | 98.63 | 155.0 | V | 315.0 | 0.0 | 30 |
| 17200.000000 | 63.23 | | 150.00 | 86.77 | 155.0 | Н | 180.0 | 90.0 | 30 |



4.02_BT_LE_mid

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical Operating Mode: horizontal/vertical BLE_TX_mid

Operator: HEl

Comment: BLE_TX_Ch20

EUT Setup: 1
Verdict: Initial

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

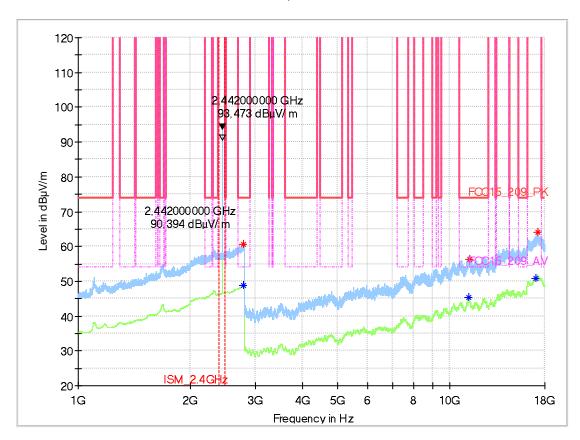
SVN: -- Config: --

Serial number: 000045

Connected Interfaces: --

Power Supply: 12V DC Date received: 13.08.2019

Full Spectrum



→ No remarkable peaks noticeable only noise floor



Marker_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | RMS (dBµV/m) | Limit (dBµV/m) | Margi n (dB) | Heigh t (cm) | Pol | Azimut h (deg) | Elevati on (deg) | Corr. (dB/m) |
|--------------------|-------------------------|---------------------|-----------------------|--------------------|--------------------|-----|----------------------|------------------------|-----------------|
| 2780.800000 | 60.64 | | 74.00 | 13.36 | 155.0 | V | 225.0 | 0.0 | 39 |
| 2786.400000 | | 48.82 | 54.00 | 5.18 | 155.0 | V | 270.0 | 90.0 | 39 |
| 11201.200000 | | 45.22 | 54.00 | 8.78 | 155.0 | Н | 225.0 | 0.0 | 20 |
| 11283.600000 | 56.21 | | 74.00 | 17.79 | 155.0 | Н | 225.0 | 0.0 | 20 |
| 17063.600000 | | 50.72 | 150.00 | 99.28 | 155.0 | Н | 315.0 | 0.0 | 30 |
| 17236.800000 | 64.19 | | 150.00 | 85.81 | 155.0 | V | 90.0 | 0.0 | 31 |



4.03_BT_LE_high

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical
Operating Mode: high (2480MHz | ch high)

Operator: HEI

Comment: BLE_TX_high

EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

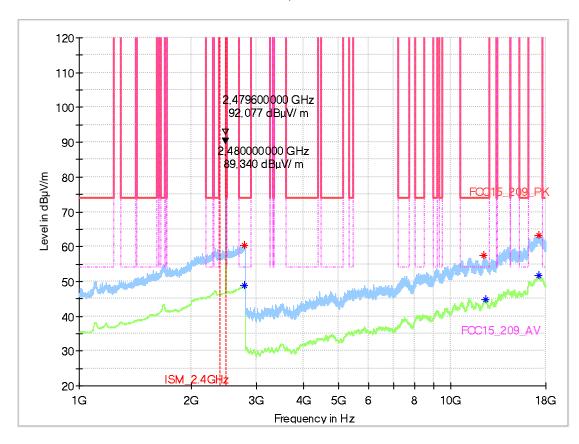
HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: --

Power Supply: 12V DC Date received: 13.08.2019

Full Spectrum



→ No remarkable peaks noticeable only noise floor



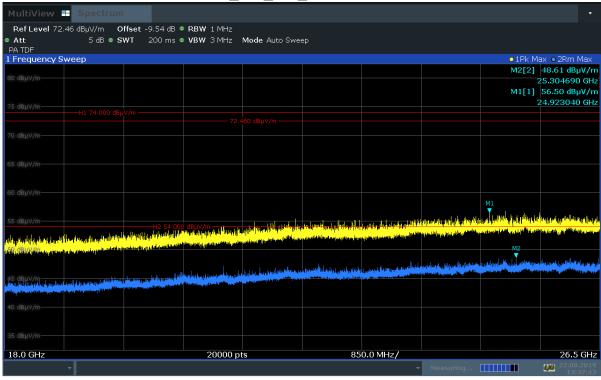
Marker_Freqs

| | Frequency (MHz) | MaxPeak (dBµV/m) | RMS (dBµV/m) | Limit (dBµV/m) | Margi n (dB) | Heigh t (cm) | Pol | Azimut h (deg) | Elevati on (deg) | Corr. (dB/m) |
|---|--------------------|-------------------------|---------------------|-----------------------|--------------------|--------------------|-----|----------------------|------------------------|-----------------|
| Г | 2786.400000 | | 48.75 | 54.00 | 5.25 | 155.0 | Н | 270.0 | 0.0 | 39 |
| | 2788.800000 | 60.33 | | 74.00 | 13.67 | 155.0 | V | 45.0 | 90.0 | 39 |
| | 12290.000000 | 57.37 | | 74.00 | 16.63 | 155.0 | V | 315.0 | 90.0 | 19 |
| | 12394.400000 | | 44.87 | 54.00 | 9.13 | 155.0 | V | 315.0 | 0.0 | 20 |
| | 17187.600000 | 63.35 | | 150.00 | 86.65 | 155.0 | Η | 315.0 | 90.0 | 30 |
| | 17246.800000 | | 51.80 | 150.00 | 98.20 | 155.0 | Н | 135.0 | 0.0 | 31 |



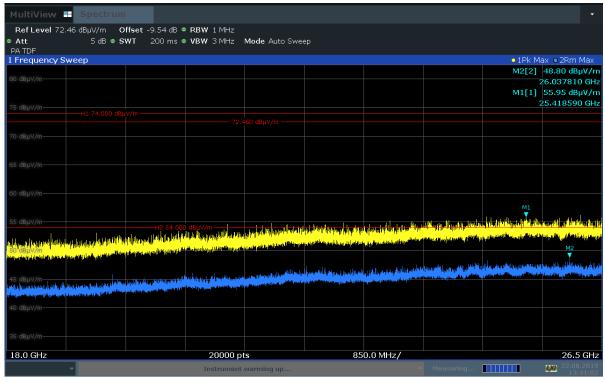
2.4. Field strength measurements f 18GHz - 26GHz

4.04_BT_LE_low Channel



13:37:43 22.08.2019

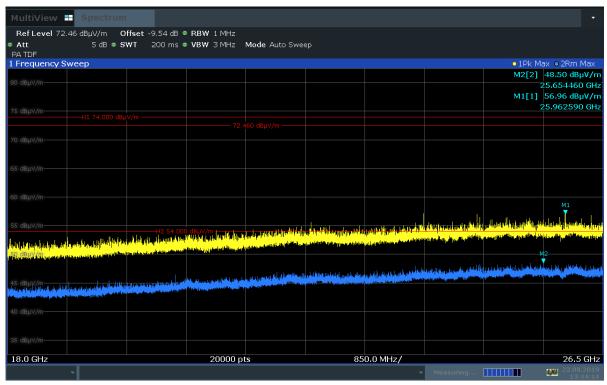
4.05_BT_LE_mid_channel



13:41:03 22.08.2019



4.06_BT_LE_high_channel



13:44:14 22.08.2019



3. Radiated band-edge measurements accord. §15.209 & §15.205 (§15.247)

9.01_BT_LE_high

Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operating Mode: high (2480MHz | ch high)

Operator: HEl
EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

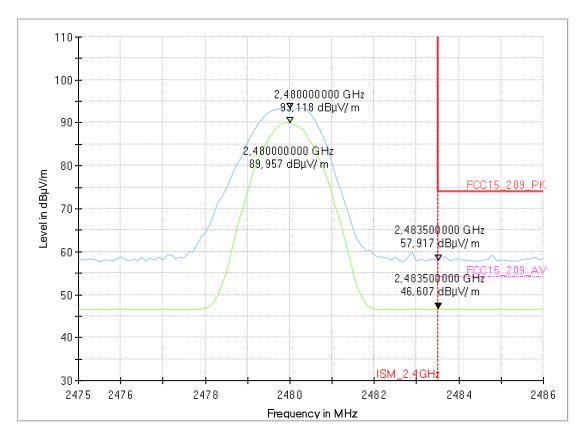
Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -Config: -Serial number: 000045
Connected Interfaces: --

Power Supply: 12V DC Date received: 13.08.2019





9.02_BT_LE_low

Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operating Mode: high (2402MHz | ch low)

Operator: HEl
EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 19-1-01036S06

Manufacturer: Continental Advanced Antenna GmbH

Product: IPA 2 Transreceiver

Model: 9J1.051.515

HW version: 01S

SW version: BT:STACK: 01.03.05

SVN: -- Config: --

Serial number: 000045

Connected Interfaces:

Power Supply: 12V DC Date received: 13.08.2019

