

Annex 4: Diagrams to
PARTIAL TEST REPORT
No.: 2-20823278k/13

According to:
FCC Regulations
Part 15.109, Part15.247

for
Sony Mobile Communications

PC Tablet

FCC-ID: PY7TM-0042

| Laboratory Accreditation and Listings | | | |
|---|---|--|---|
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1. Diagrams of testing

1.1. Transmitter spurious emissions

1.1.1. Frequency range $f < 30\text{MHz}$

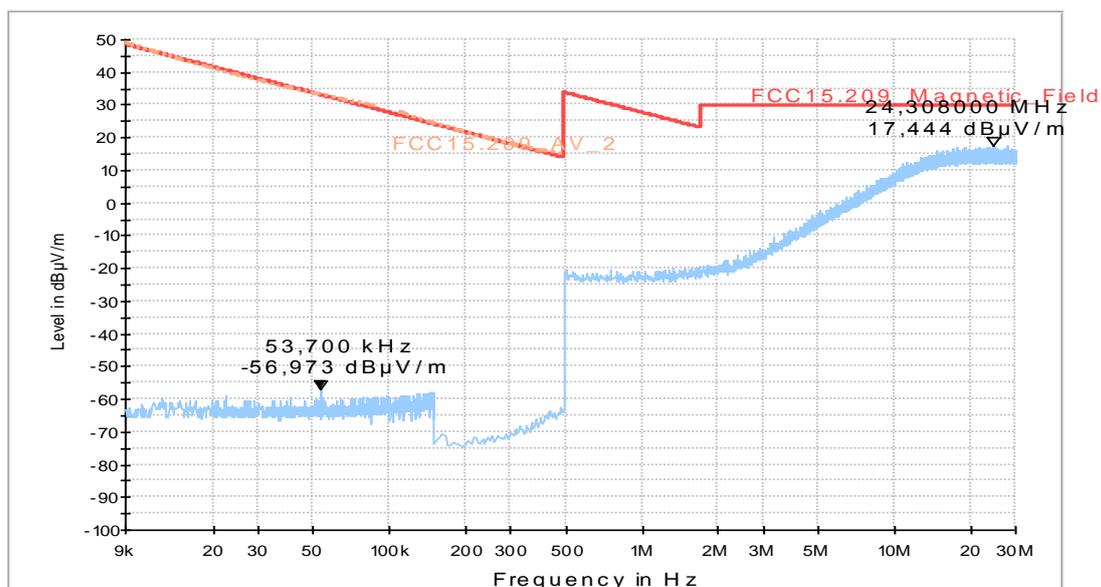
Diagram No. 2.01_Ch39_DH5

| | | |
|--------------------------|---|-------------|
| Date: | 11.03.2014 | Page 1 of 1 |
| Test description: | Magnetic Fieldstrength 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: | 8.51.0 | |
| 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 3 | |
| Operator: | HLa | |
| Operating conditions: | TX-on continuous, BT_Ch39_DH5 | |
| Power during tests: | 12V DC, 110V/60Hz, full loaded batteries | |
| Comment 1: | Channel middle | |
| Comment 2: | | |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DPP9 |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

FCC15.209_magn hor+vert



1.1.2. Frequency range 30MHz<f<1GHz

Diagram No. 3.01_Ch0_DH5

12.03.2014 Page 1 of 1
 Electric Fieldstrength Measurement
 Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: 8.51.0
 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 3

Operator: dpa
 Operating conditions: TX-on continuous, BT_Ch0_DH5
 Power during tests: 120V 60Hz
 Comment 1: -

EUT Information

Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA- /LTE Tablet PC

 EUT: RSE #01
 HW version: AP1
 SW version: 17.1.D.0.108
 SVN: -
 Config: -
 Serial number: CB5126DQ9V
 Connected Interfaces: Power Supply (EP850) ; USB-cable (EC700)
 Power Supply: Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test

Comments: -

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Elevation (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|-----------------|------------|-------------------|----------------------|
| 833.790000 | 29.3 | 1000.0 | 120.000 | 176.0 | V | 310.0 | 0.0 | 26.1 | 16.70 | 46.00 |
| 908.240000 | 30.4 | 1000.0 | 120.000 | 249.0 | H | 233.0 | 90.0 | 27.4 | 15.60 | 46.00 |
| 928.380000 | 30.3 | 1000.0 | 120.000 | 276.0 | V | 193.0 | 90.0 | 27.0 | 15.70 | 46.00 |
| 941.500000 | 30.6 | 1000.0 | 120.000 | 182.0 | V | 218.0 | 0.0 | 27.2 | 15.40 | 46.00 |
| 952.610000 | 31.1 | 1000.0 | 120.000 | 317.0 | V | 138.0 | 90.0 | 27.5 | 14.90 | 46.00 |

01_FCC 15.209_hor+vert_kipp

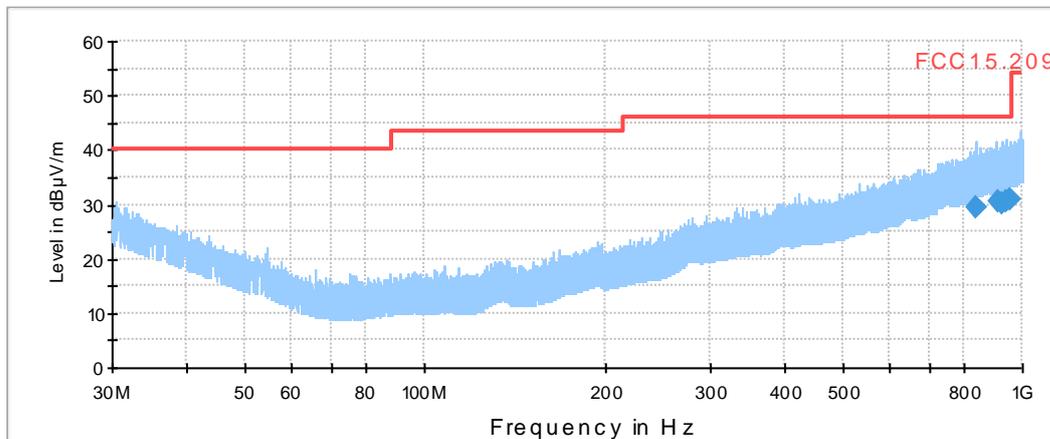


Diagram No. 3.02_Ch39_2DH5

| | |
|--------------------------|---|
| Test description: | 11.03.2014 Page 1 of 1 |
| Test site and distance: | Electric Fieldstrength Measurement |
| Version of Testsoftware: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Distance correction: | EMC32 V8.51.0 |
| Used filter: | not used |
| Technical Data: | not used |
| Test specification.: | please see page 2 for detailed data of measurement setup |
| | FCC 15.209; RSS-Gen: Issue 3 |
| Operator: | HLa |
| Operating conditions: | TX-on continuous, BT_Ch39_DH5 |
| Power during tests: | 12V DC, 110V/60Hz, full loaded batteries |
| Comment 1: | Channel middle |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

01_FCC15.209_hor+vert_kipp

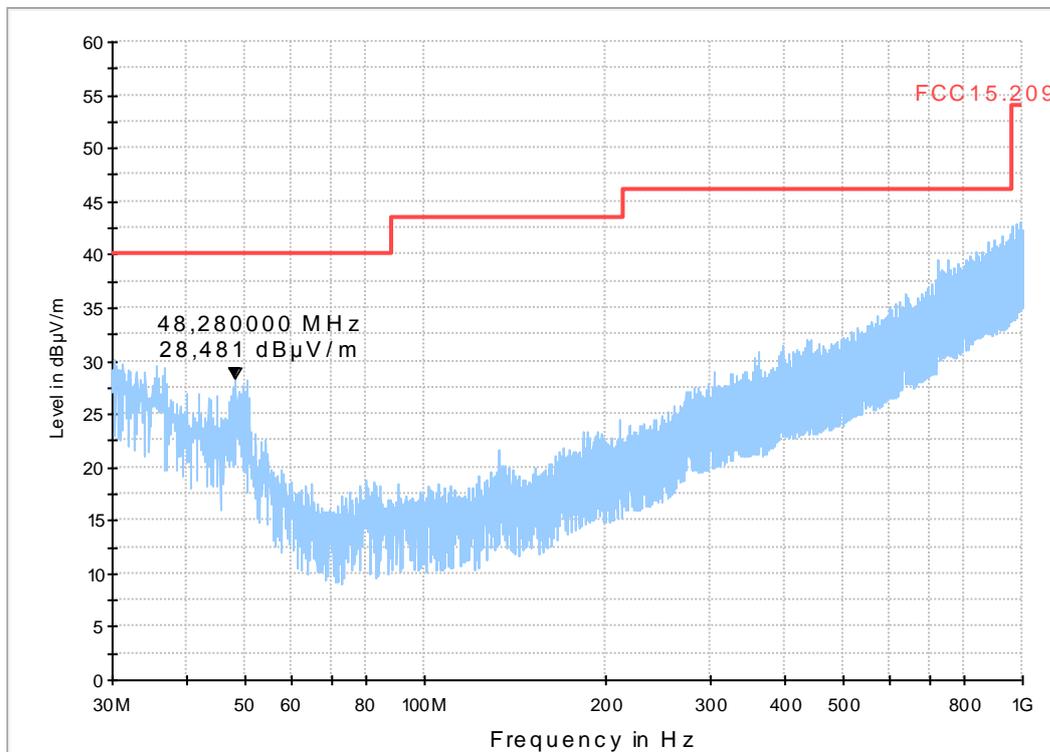


Diagram No. 3.03_Ch78_3DH5

12.03.2014 Page 1 of 1
 Electric Fieldstrength Measurement
 Test description: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Test site and distance: 8.51.0
 Version of Testsoftware: not used
 Distance correction: not used
 Used filter: please see page 2 for detailed data of measurement setup
 Technical Data: FCC 15.209; RSS-Gen: Issue 3
 Test specification.:
 Operator: dpa
 Operating conditions: TX-on continuous, BT_Ch78_3-DH5
 Power during tests: 120V 60Hz
 Comment 1: -

EUT Information

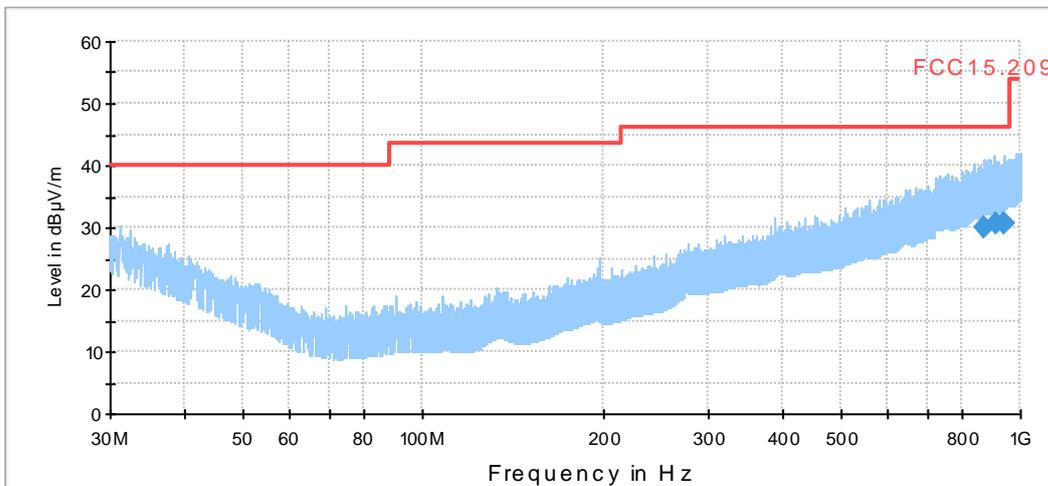
Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA- /LTE Tablet PC

 EUT: RSE #01
 HW version: AP1
 SW version: 17.1.D.0.108
 SVN: -
 Config: -
 Serial number: CB5126DQ9V
 Connected Interfaces: Power Supply (EP850) ; USB-cable (EC700)
 Power Supply: Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
 Comments: -

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Elevation (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|-----------------|------------|-------------------|----------------------|
| 867.780000 | 29.9 | 1000.0 | 120.000 | 231.0 | H | 116.0 | 0.0 | 26.6 | 16.10 | 46.00 |
| 908.590000 | 30.6 | 1000.0 | 120.000 | 356.0 | H | 324.0 | 0.0 | 27.4 | 15.40 | 46.00 |
| 937.630000 | 30.6 | 1000.0 | 120.000 | 105.0 | V | 114.0 | 90.0 | 27.1 | 15.40 | 46.00 |

01_FCC15.209_hor+vert_kipp



1.1.3. Frequency range $f > 1\text{GHz}$

Diagram No.: 4.01_BT_Ch0_DH5

Common Information

| | |
|-----------------------|---|
| Test Description: | Radiated field strength emission accord. §15.247 in 3m distance |
| Test Site: | CETECOM GmbH Essen |
| Test Standard: | §15.205 & 15.209 Intentional Radiator |
| Antenna polarisation: | horizontal/vertical |
| Operator Name: | GAr |
| Comment: | Channel no.0 |
| Op. Mode: | Bluetooth |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

00431_SM1_KP1_BT_1.5ms

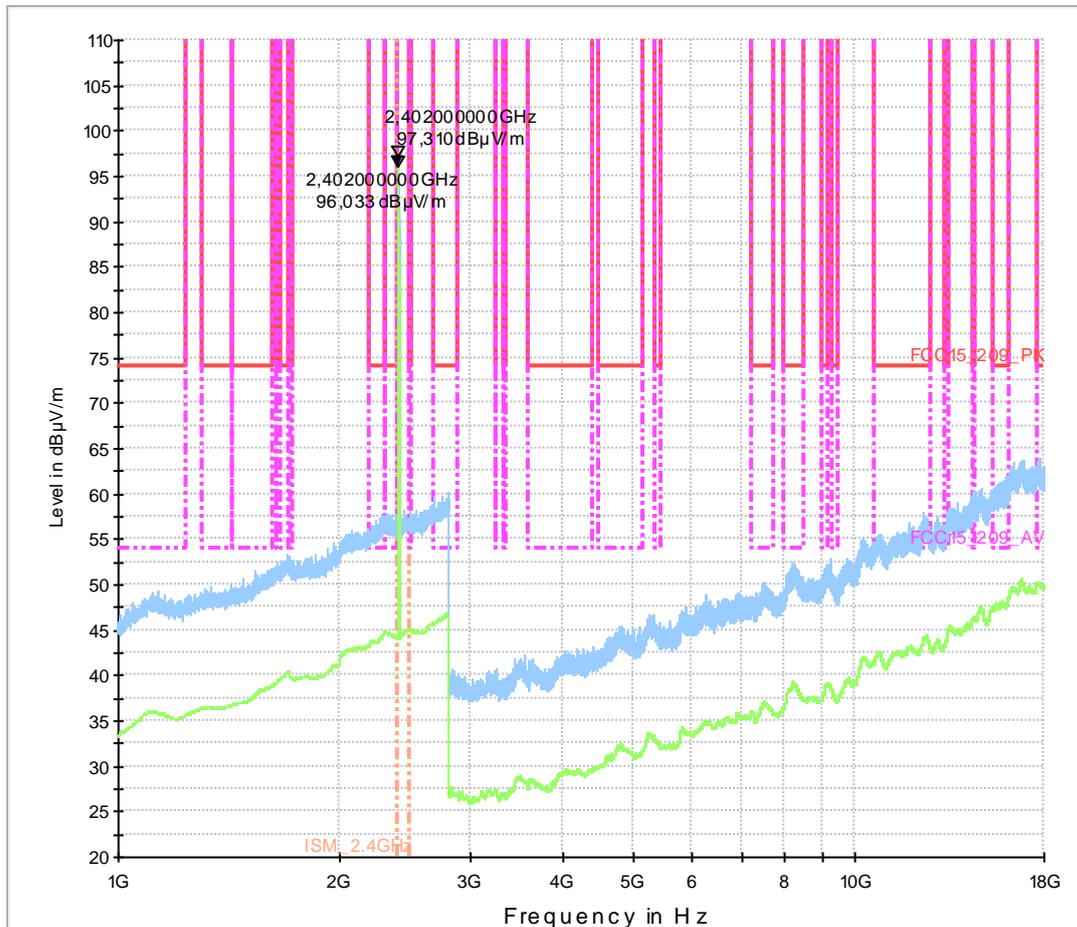


Diagram No.: 4.02_BT_Ch39_2DH5

Common Information

| | |
|-----------------------|---|
| Test Description: | Radiated field strength emission accord. §15.247 in 3m distance |
| Test Site: | CETECOM GmbH Essen |
| Test Standard: | §15.205 & §15.209 Intentional Radiator |
| Antenna polarisation: | horizontal/vertical |
| Operator Name: | GAr |
| Comment: | Channel no.39 |
| Op. Mode: | Bluetooth |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

00431_SM1_KP1_BT_1.5ms

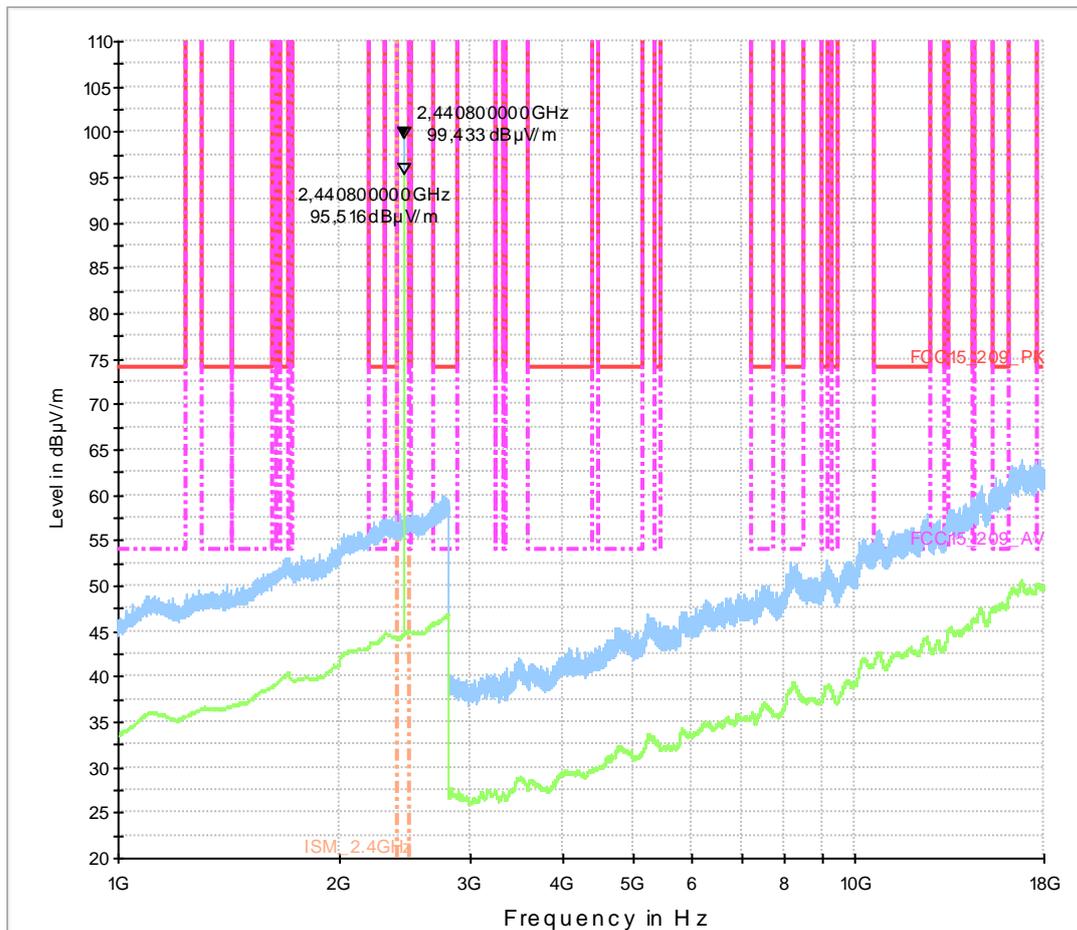


Diagram No.: 4.03_BT_Ch78_3DH5

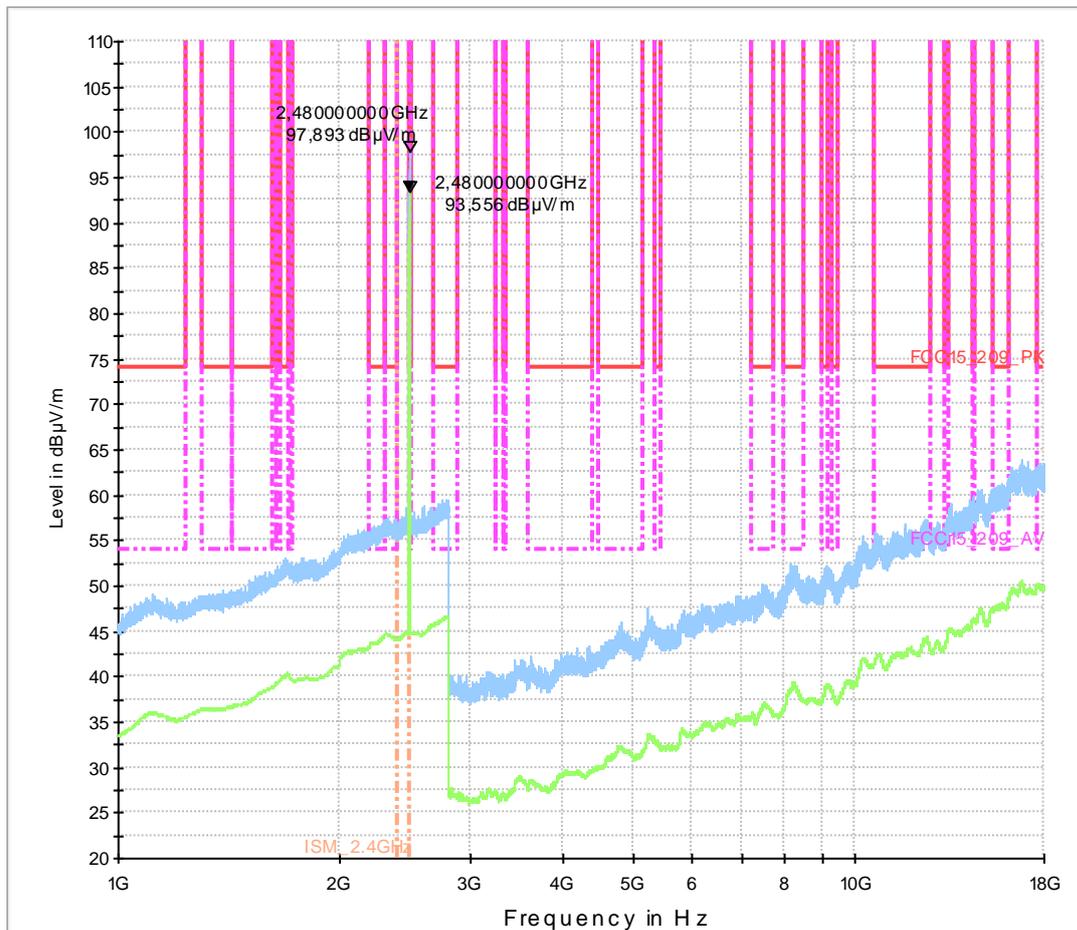
Common Information

| | |
|-----------------------|---|
| Test Description: | Radiated field strength emission accord. §15.247 in 3m distance |
| Test Site: | CETECOM GmbH Essen |
| Test Standard: | §15.205 & 15.209 Intentional Radiator |
| Antenna polarisation: | horizontal/vertical |
| Operator Name: | GAr |
| Comment: | Channel no.78 |
| Op. Mode: | Bluetooth |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

00431_SM1_KP1_BT_1.5ms



1.2. Band-Edge radiated
1.2.1. Left Band-Edge Channel 0

Diagram No.: 9.01_BT-Ch0-DH5

Common Information

| | |
|-----------------------|---|
| Test Description: | Radiated field strength emission accord. §15.247 in 3m distance |
| Test Site: | CETECOM GmbH Essen |
| Test Standard: | §15.205 & 15.209 Intentional Radiator |
| Antenna polarisation: | horizontal/vertical |
| Operator Name: | cta |
| Comment: | Channel no. low=0 DH5 |
| Op. Mode: | Bluetooth |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

00431_BE_Low_SM1_KP1_BT_2ms

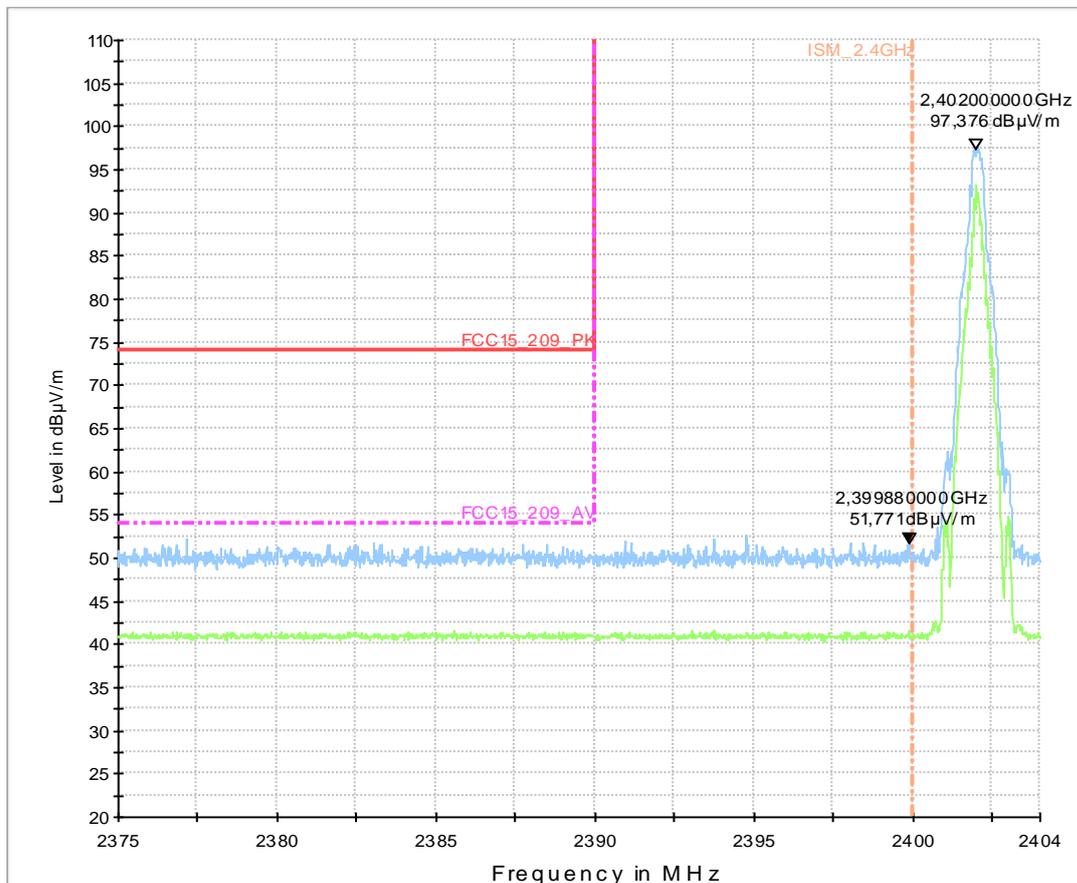


Diagram No.: 9.02_BT-Ch0-3DH5

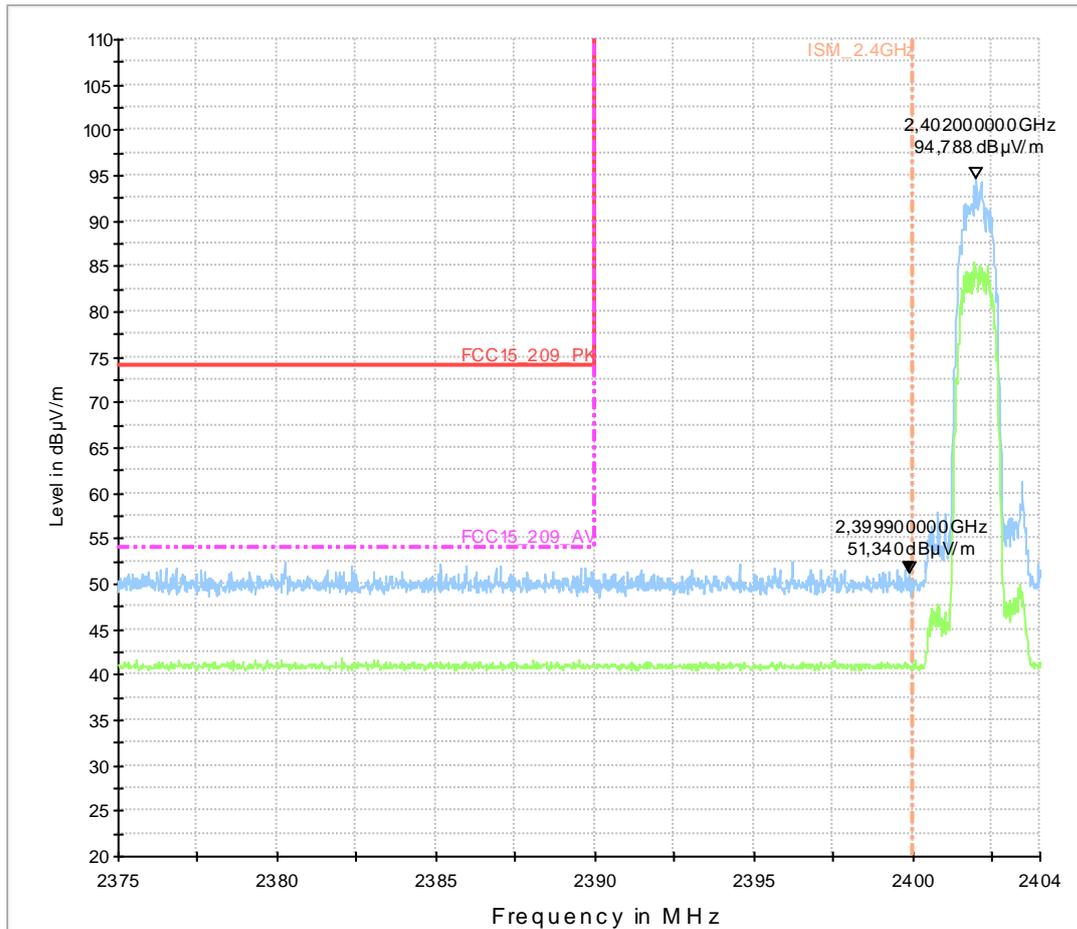
Common Information

| | |
|-----------------------|---|
| Test Description: | Radiated field strength emission accord. §15.247 in 3m distance |
| Test Site: | CETECOM GmbH Essen |
| Test Standard: | §15.205 & 15.209 Intentional Radiator |
| Antenna polarisation: | horizontal/vertical |
| Operator Name: | cta |
| Comment: | Channel no. low=0 , 3DH5 |
| Op. Mode: | Bluetooth |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

00431_BE_Low_SM1_KP1_BT_2ms



1.2.2. Right Band-Edge Channel 78

Diagram No.: 9.03_BT_Ch78_DH5

Common Information

Test Description: Radiated field strength emission accord. §15.247 in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: §15.205 & 15.209 Intentional Radiator
 Antenna polarisation: horizontal/vertical

Operator Name: kta
 Comment: Channel no. high=78 DH5
 Op. Mode: Bluetooth

EUT Information

Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA- /LTE Tablet PC

EUT: RSE #01
 HW version: AP1
 SW version: 17.1.D.0.108
 SVN: -
 Config: -
 Serial number: CB5126DQ9V
 Connected Interfaces: Power Supply (EP850) ; USB-cable (EC700)
 Power Supply: Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
 Comments: -

00431_BE_High_SM1_KP1_BT_2ms

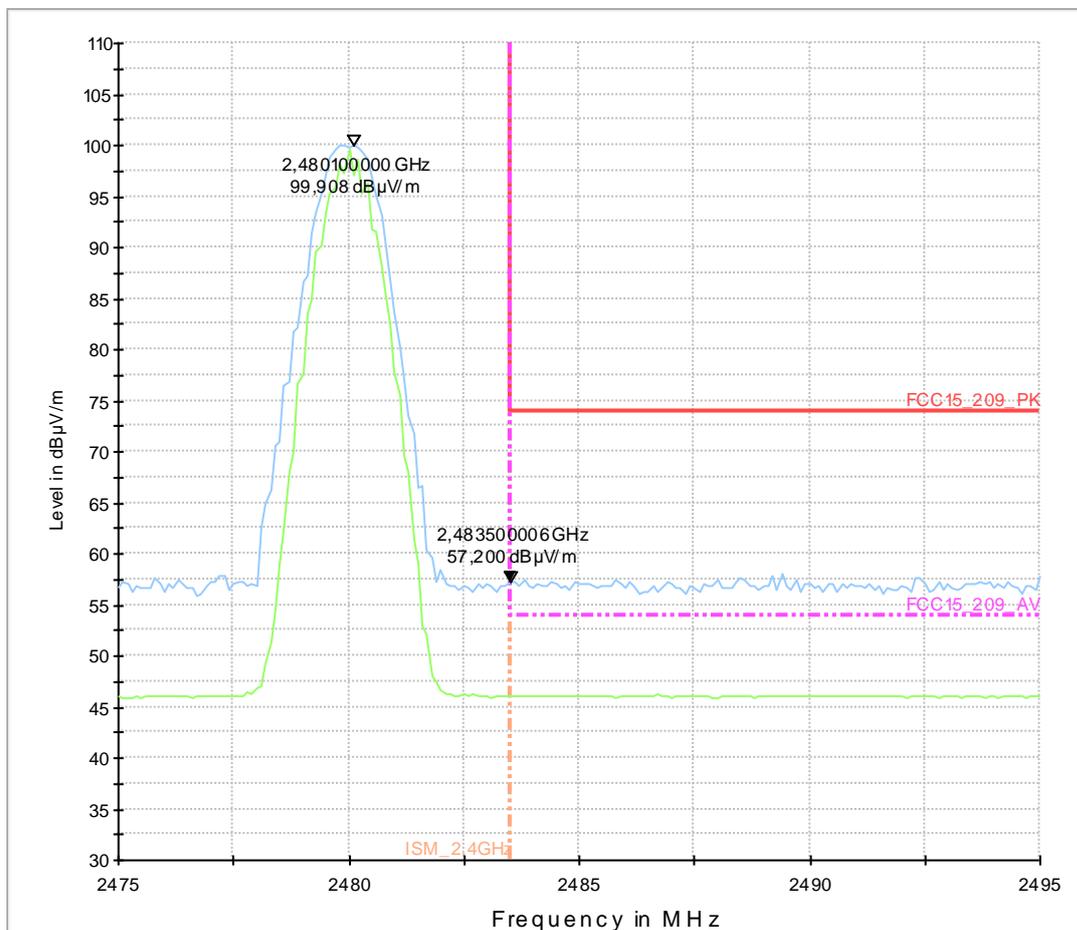


Diagram No.: 9.04_BT_Ch78_3DH5

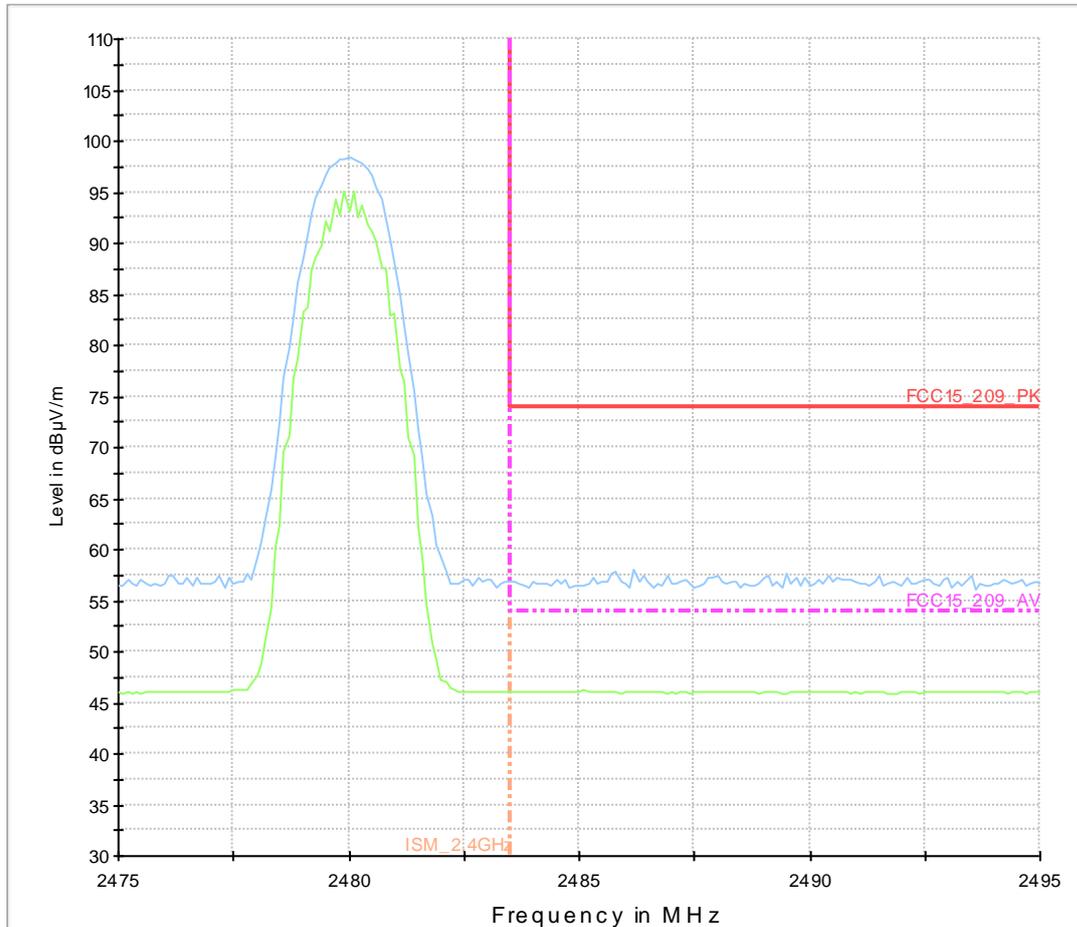
Common Information

| | |
|-----------------------|---|
| Test Description: | Radiated field strength emission accord. §15.247 in 3m distance |
| Test Site: | CETECOM GmbH Essen |
| Test Standard: | §15.205 & 15.209 Intentional Radiator |
| Antenna polarisation: | horizontal/vertical |
| Operator Name: | кта |
| Comment: | Channel no. high=78 3DH5 |
| Op. Mode: | Bluetooth |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

00431_BE_High_SM1_KP1_BT_2ms



1.3. Receiver spurious emissions
1.3.1. Frequency range 30MHz<f<1GHz

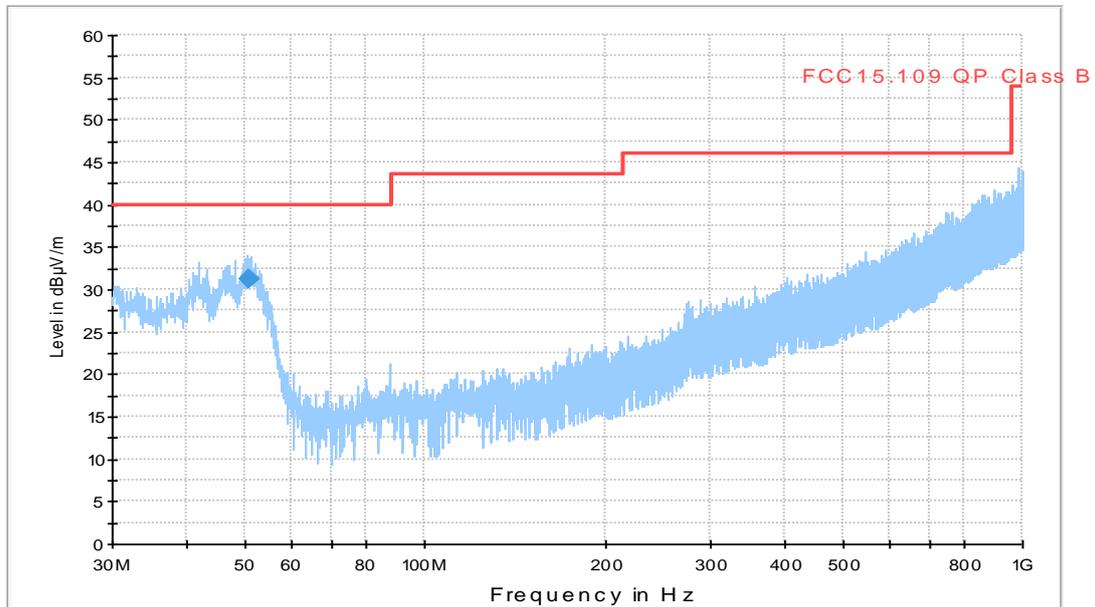
Diagram No. 3.04_Ch39_DH5_RX

| | |
|--------------------------|--|
| Test description: | Date: 13.03.2014 Page 1 of 2 |
| Test site and distance: | Electric Fieldstrength Measurement |
| Version of Testsoftware: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Distance correction: | EMC32 V8.51.0 |
| 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 3 |
| Operating conditions: | FTE |
| Measured sides of EUT: | BT_Ch39_RX |
| Power during tests: | front, right, rear, left |
| Comment 1: | 110V 60Hz |
| | 120 V AC 60 Hz |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

05_FCC15.109_hor+vert_kipp



Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Elevation (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|-----------------|------------|-------------|----------------|
| 50.710000 | 31.3 | 1000.0 | 120.000 | 105.0 | V | 269.0 | 90.0 | 13.3 | 8.7 | 40.0 |

1.3.2. Frequency range $f > 1\text{GHz}$

4.04_BT_Ch39_DH5_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 |
| Section: | 15.109 |
| Operating Mode: | BT Rx-Mode, Ch39 |
| Equipment Class: | Class B |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 20°C |
| Operator: | GAr |

EUT Information

| | |
|-----------------------|--|
| Manufacturer: | Sony |
| FCC ID: | PY7TM-0042 |
| Type: | GSM-/ WCDMA- /LTE Tablet PC |
| ----- | |
| EUT: | RSE #01 |
| HW version: | AP1 |
| SW version: | 17.1.D.0.108 |
| SVN: | - |
| Config: | - |
| Serial number: | CB5126DQ9V |
| Connected Interfaces: | Power Supply (EP850) ; USB-cable (EC700) |
| Power Supply: | Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test |
| Comments: | - |

030442_FCC_Part15.109_Unint_Rad_Class_B_1G-20G_ESU40

