







Annex 4: Diagrams to  
PARTIAL TEST REPORT  
No.: 2-20823287o-13

According to:  
**FCC Regulations**  
Part 15.109, Part15.249

for  
Sony Mobile Communications

Tablet PC  
(ANT+)

FCC-ID: PY7TM-0042

Laboratory Accreditation and Listings			
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# 1. Transmitter spurious emissions

## 1.1. Max. Power radiated - EIRP-Value

### Diagram No.: 7.01\_Ch1

#### 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. low=1  
 Op. Mode: ANT+ TX continuous  
 Test Conditions: Humidity: 40%rH; Temperature: 21°C

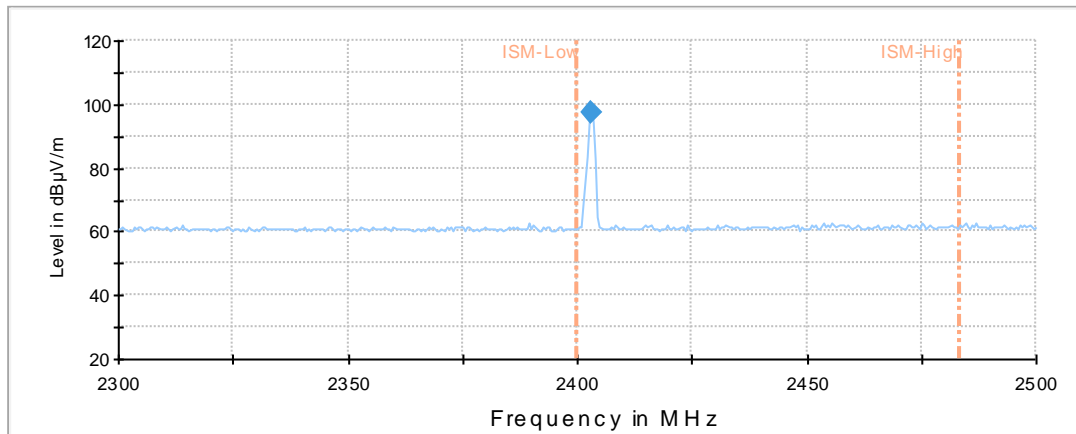
#### EUT Information

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: -

Carrier\_measurement\_SM1\_PA0\_KP1\_WLAN



#### Final Result 1

Frequency (MHz)	MaxPeak (dBµV/m)	Meas Time	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr (dB)	Comment
2403.000000	97.6	100.0	1000.000	155.0	H	191.0	0.0	35.5	

## Diagram No.: 7.02\_Ch39

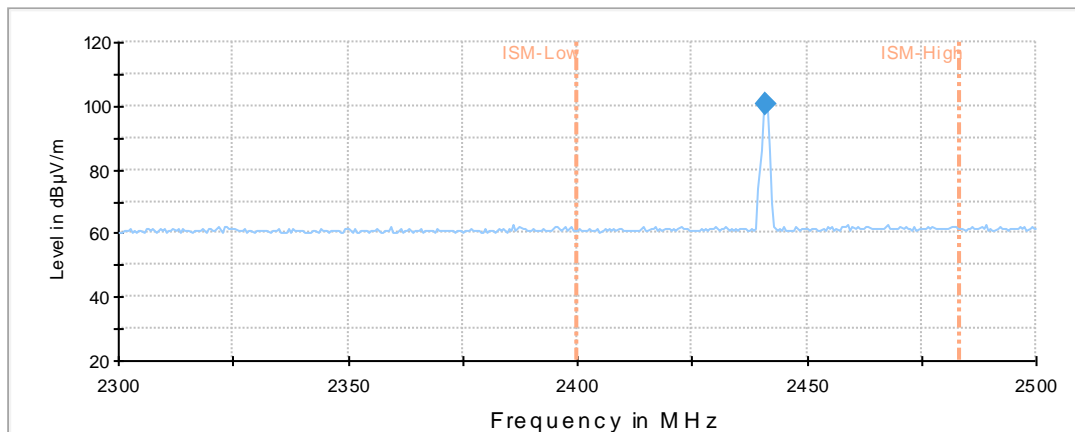
### Common Information

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. middle=39  
 Op. Mode: ANT+ TX continuous  
 Test Conditions: Humidity: 40%rH; Temperature: 21°C

### 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: -

Carrier\_measurement\_SM1\_PA0\_KP1\_WLAN



### Final Result 1

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
2441.000000	100.7	100.0	1000.000	155.0	H	221.0	0.0	35.6	

## Diagram No.: 7.03\_Ch78

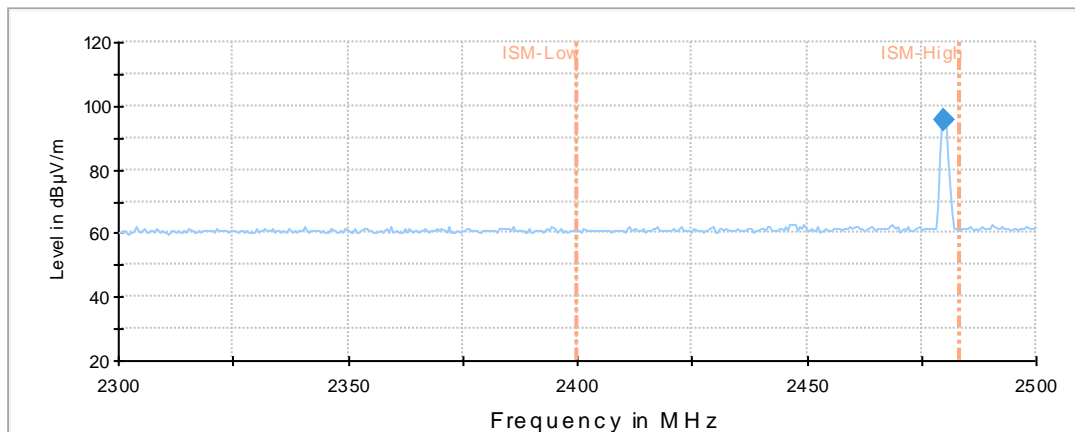
### Common Information

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  
 Op. Mode: ANT+ TX continuous  
 Test Conditions: Humidity: 32%rH; Temperature: 23°C

### 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: -

Carrier\_measurement\_SM1\_PA0\_KP1\_WLAN



### Final Result 1

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
2480.000000	95.5	100.0	1000.000	155.0	H	221.0	90.0	35.7	

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

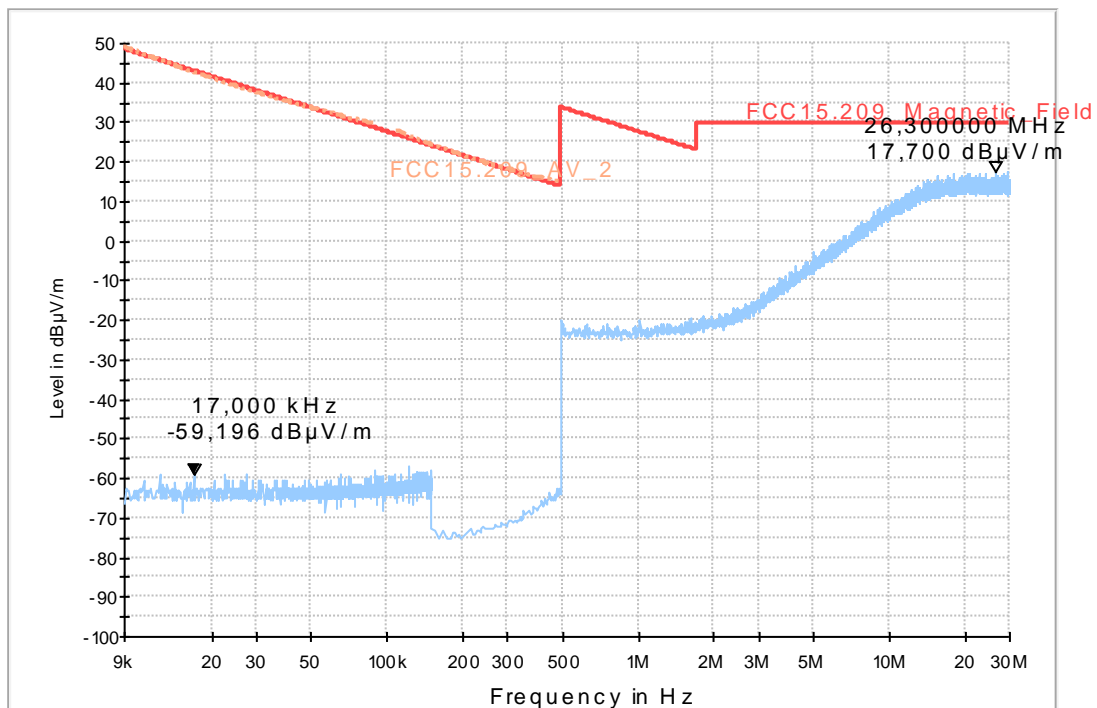
### Diagram No. 2.03\_ANT\_Ch39

Test description:	Date: 11.03.2014 Page 1 of 1
Test site and distance:	Magnetic Field strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	8.51.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	HLA
Operating conditions:	TX-on continuous, ANT_Ch39
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



### 1.3. Frequency range 30MHz<f<1GHz

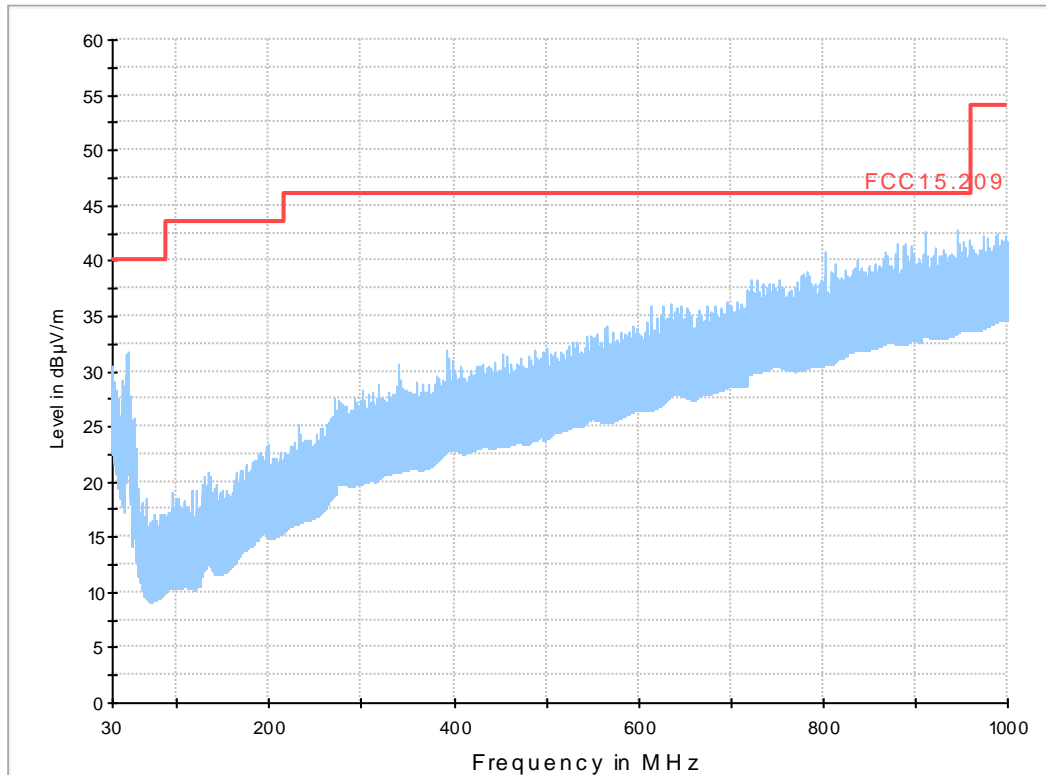
## Diagram No. 3.07\_Ant\_Ch1

Test description:	13.03.2014 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:	8.51.0
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:	dpa
Operating conditions:	TX-on continuous, Ant+_Ch1
Power during tests:	120V 60Hz

### 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. 3.08\_Ant\_Ch39

13.03.2014 Page 1 of 1  
 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: 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: GAr / DPa  
 Operating conditions: TX-on continuous, Ant+\_Ch39  
 Power during tests: 120V 60Hz

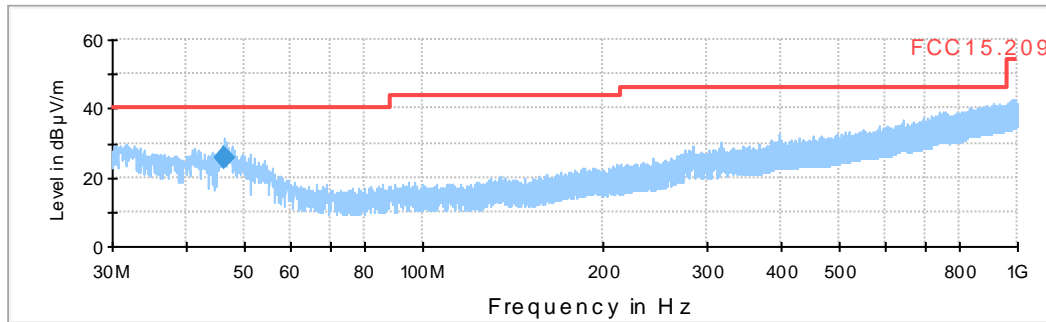
#### EUT Information

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



#### 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)
46.290000	25.7	1000.0	120.000	232.0	V	227.0	0.0	15.0	14.30	40.00



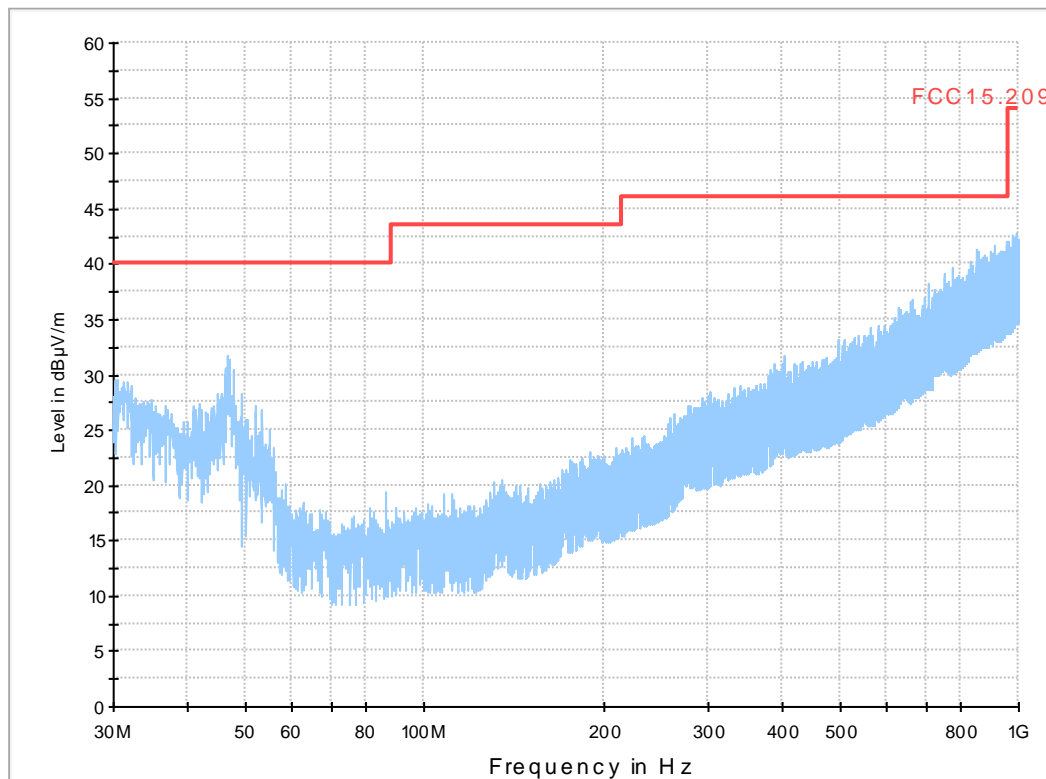
## Diagram No. 3.09\_Ant\_Ch78

Test description:	13.03.2014 Page 1 of 1
Test site and distance:	Electric Field strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	8.51.0
Used filter:	not used
Technical Data:	TP
Test specification.:	please see page 2 for detailed data of measurement setup
	FCC 15.209; RSS-Gen: Issue 3
Operator:	GAr / DPa
Operating conditions:	TX-on continuous, Ant+_Ch78
Power during tests:	120V 60Hz

### 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



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

## Diagram 4.04\_ANT\_Ch1

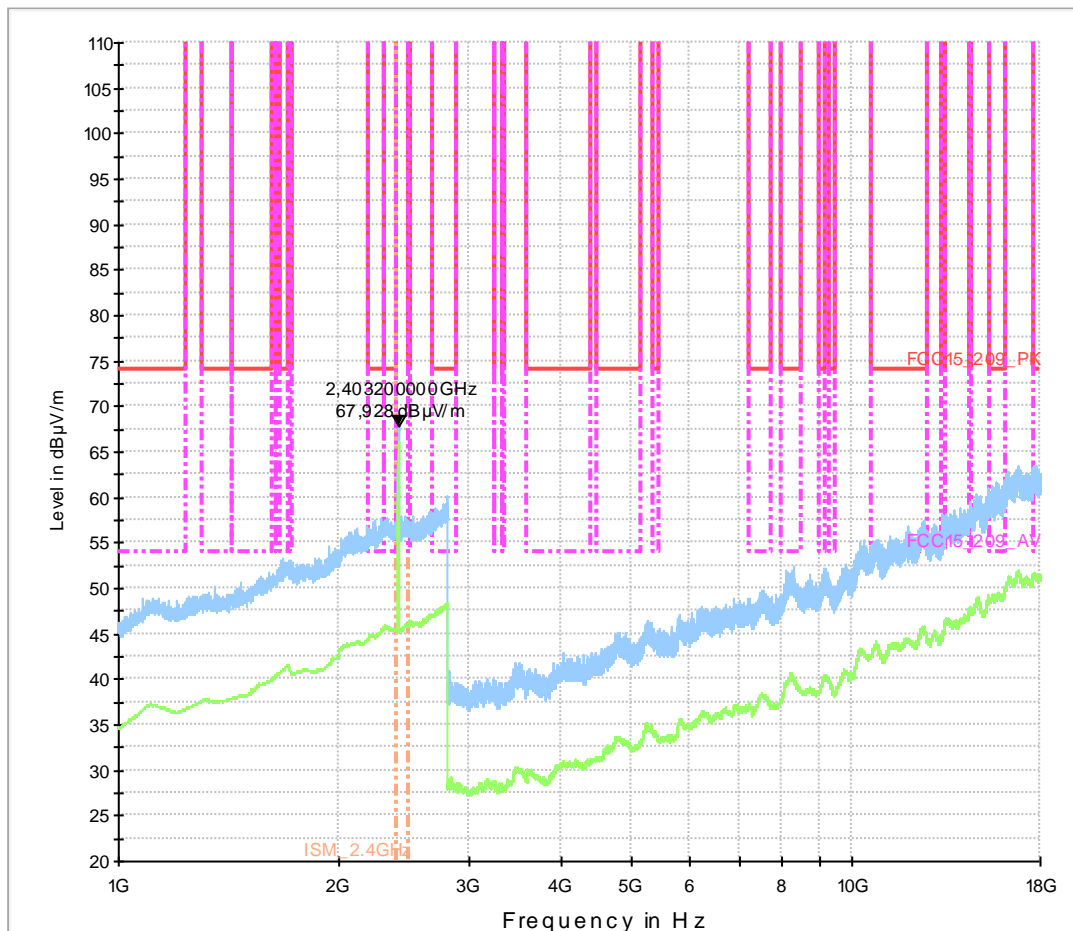
#### Common Information

Test Description:	Radiated Field Strength Emission
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	кта
Comment:	Channel no. low=1
Op. Mode:	ANT+ TX continuous
Test Conditions:	Humidity: 33%rH; Temperature: 24°C

#### 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\_W LAN\_1\_5 ms



## Diagram No.: 4.05\_ANT\_Ch39

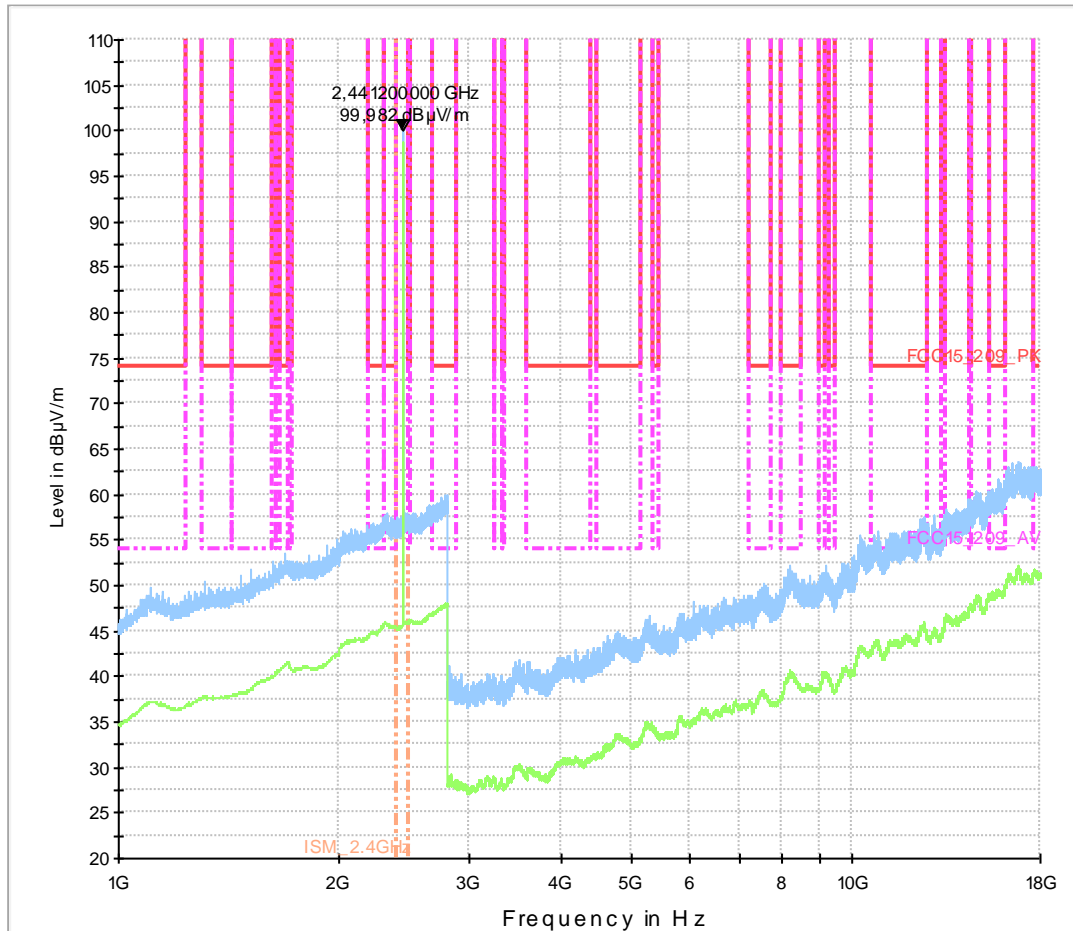
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.249 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	кта
Comment:	Channel no. middle=39
Op. Mode:	ANT+ TX continuous
Test Conditions:	Humidity: 33%rH; Temperature: 24°C

### 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\_W LAN\_1\_5ms



## Diagram No.: 4.06a\_ANT\_Ch78

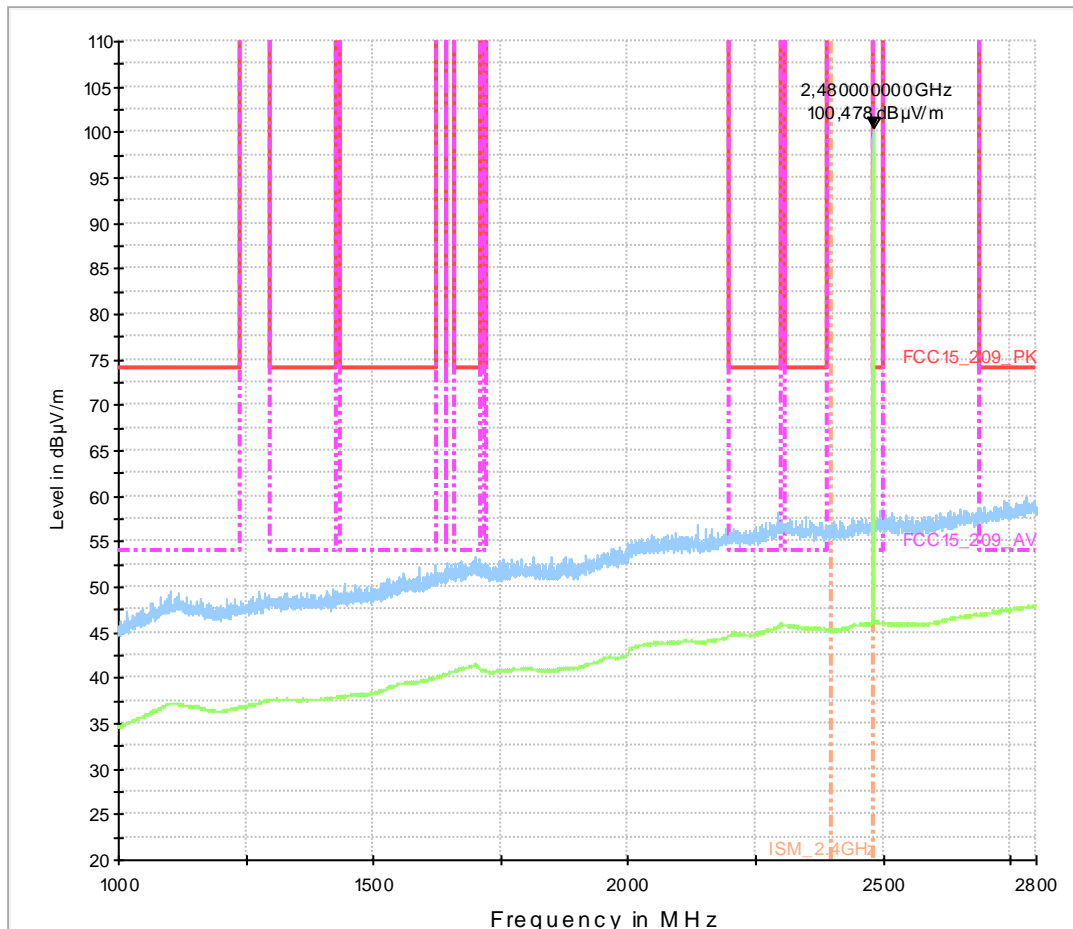
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.249 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	кта
Comment:	Channel no. high=78
Op. Mode:	ANT+ TX continuous
Test Conditions:	Humidity: 33%rH; Temperature: 24°C

### 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\_W LAN\_1\_5 ms



## Diagram No.: 4.06b\_ANT\_Ch78

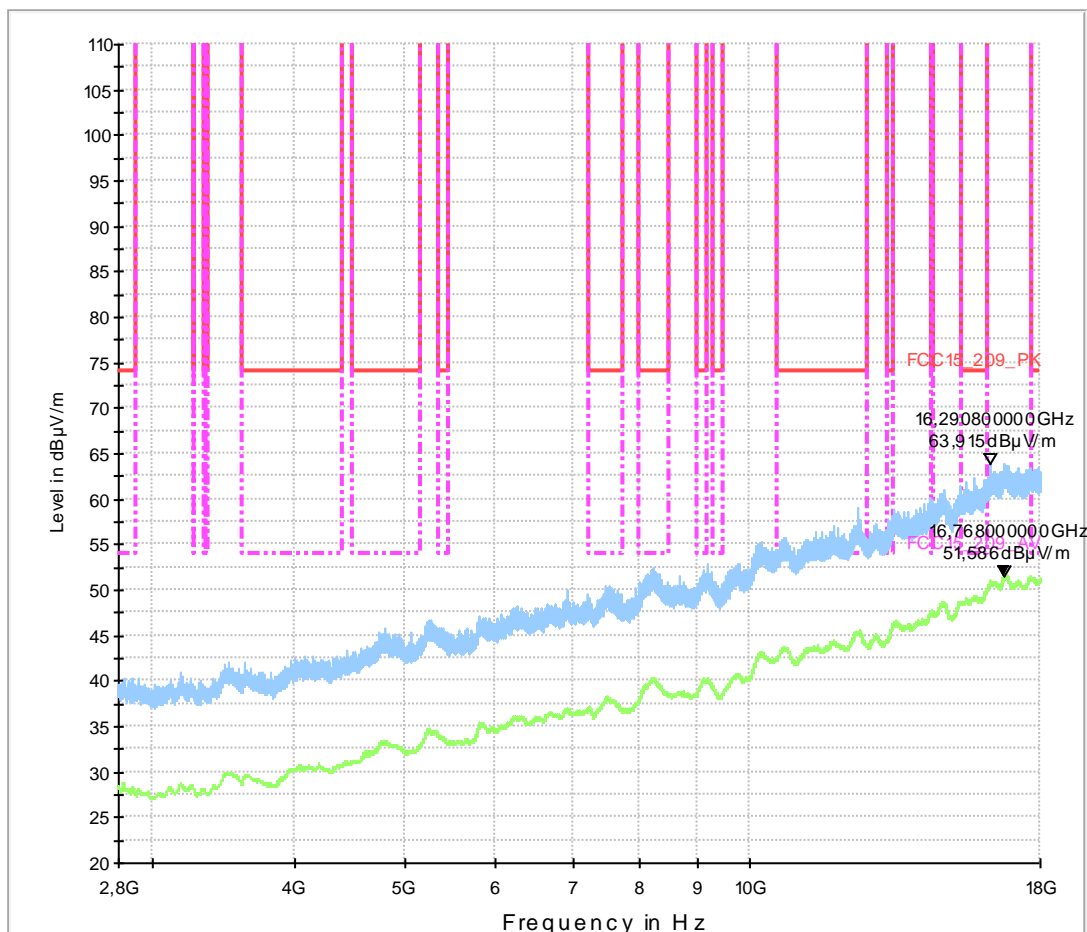
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.249 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	кта
Comment:	Channel no. high=78
Op. Mode:	ANT+ TX continuous
Test Conditions:	Humidity: 32%rH; Temperature: 23°C

### 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\_W LAN\_1\_5 ms



**1.5. Band-Edge radiated**  
**1.5.1. Left Band-Edge on Channel 1**

**Diagram No.: 9.01\_BE\_Ch1**

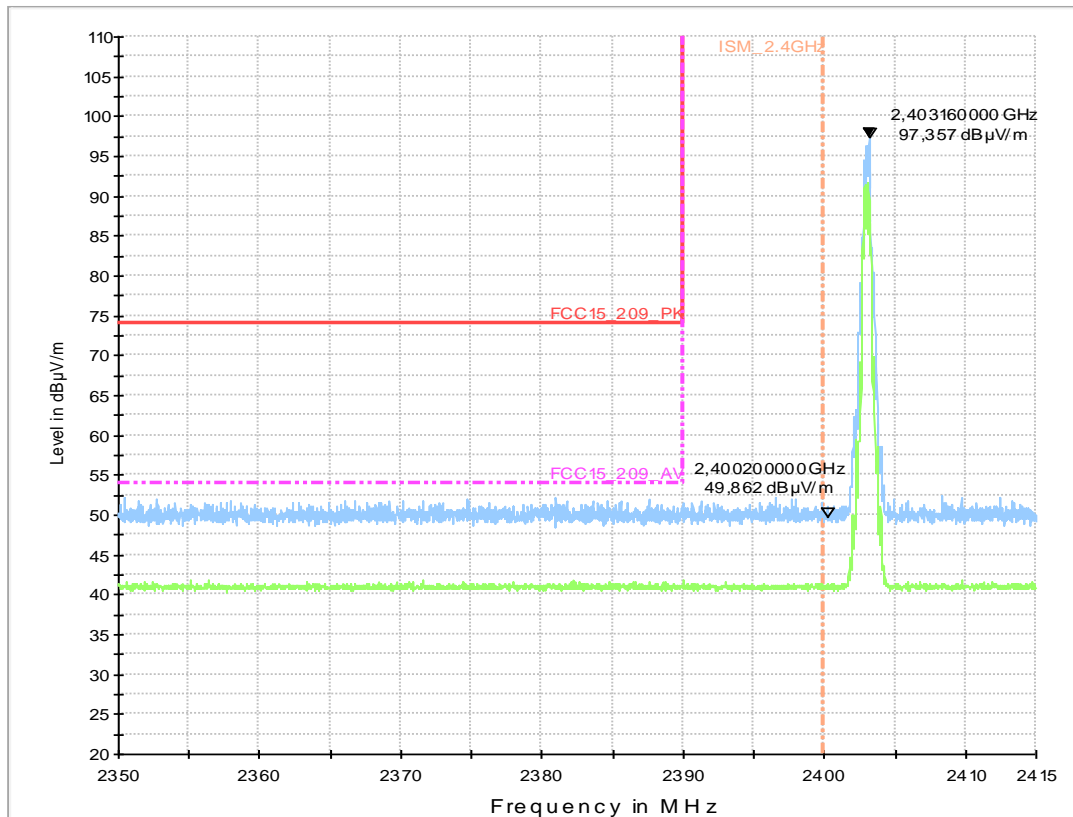
**Common Information**

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. low=1
Op. Mode:	ANT+ TX continuous

**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\_W LAN\_1ms



### 1.5.2. Right Band-Edge Channel 78

## Diagram No.: 9.02\_BE\_Ch78

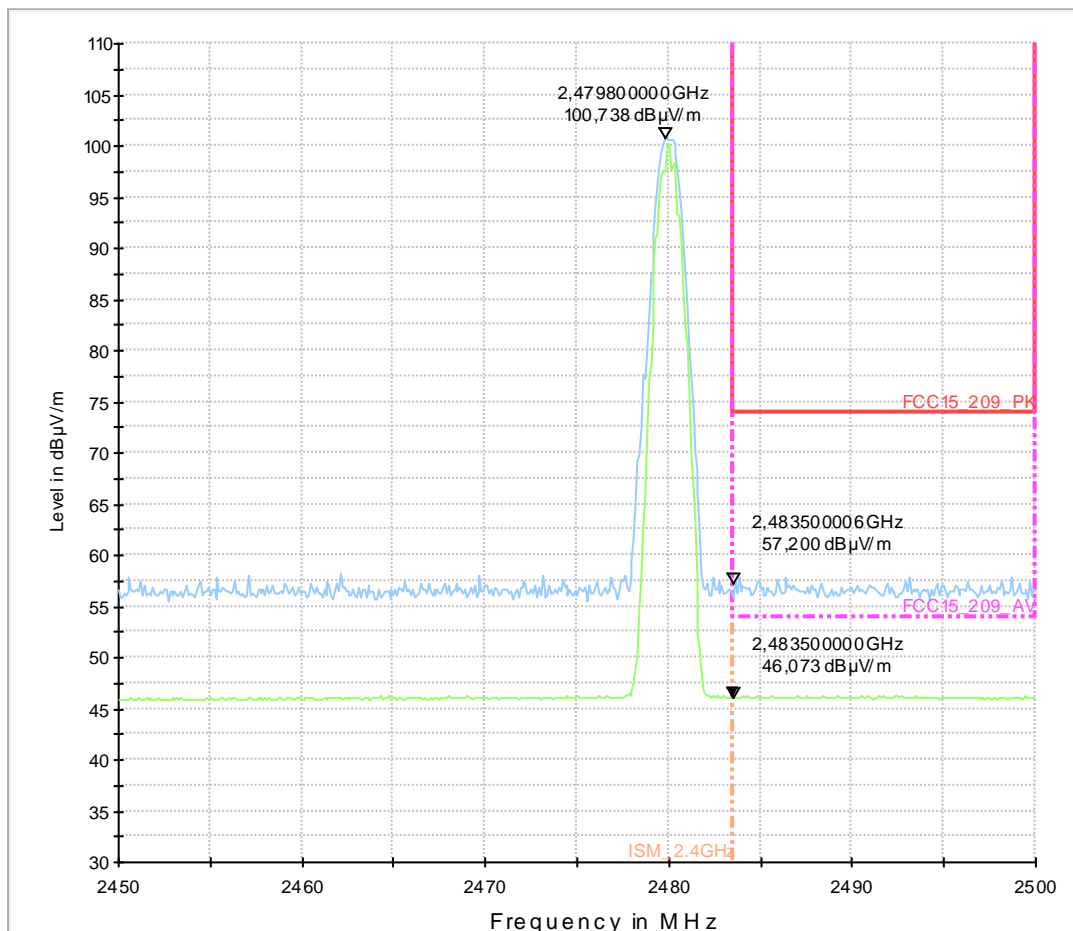
#### Common Information

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. high=78
Op. Mode:	ANT+ TX continuous

#### 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\_W LAN\_1 ms



## 2. Receiver spurious emissions

### 2.1. Frequency range f<1GHz

#### Diagram No. 3.10\_ANT+\_Ch39\_RX

Date: 20.03.2014 Page 1 of 2  
 Test description: Electric Field strength Measurement  
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance  
 Version of Testsoftware: 8.51.0  
 Distance correction: not used  
 Technical Data: Please see page 2 for detailed data of measurement setup  
 Used filter: not used  
 Test specification: FCC15.109, class B; RSS-Gen.: Issue 3

Operator: dpa  
 Operating conditions: ANT+, Ch39\_RX  
 Measured sides of EUT: front, right, rear, left  
 Power during tests: 12V DC, 110V/60Hz, full loaded batteries  
 Comment 1:

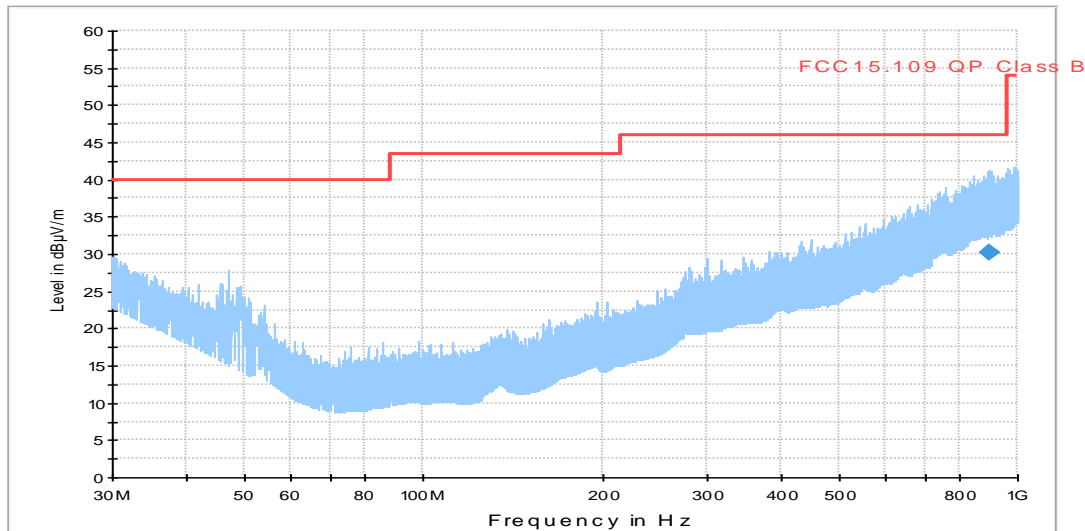
#### EUT Information

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: -

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 - QPK (dB)	Limit - QPK (dBµV/m)
895.220000	30.2	1000.0	120.000	165.0	H	269.0	90.0	27.0	15.8	46.0



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

### Diagram No.: 4.07\_ANT\_Ch39\_RX

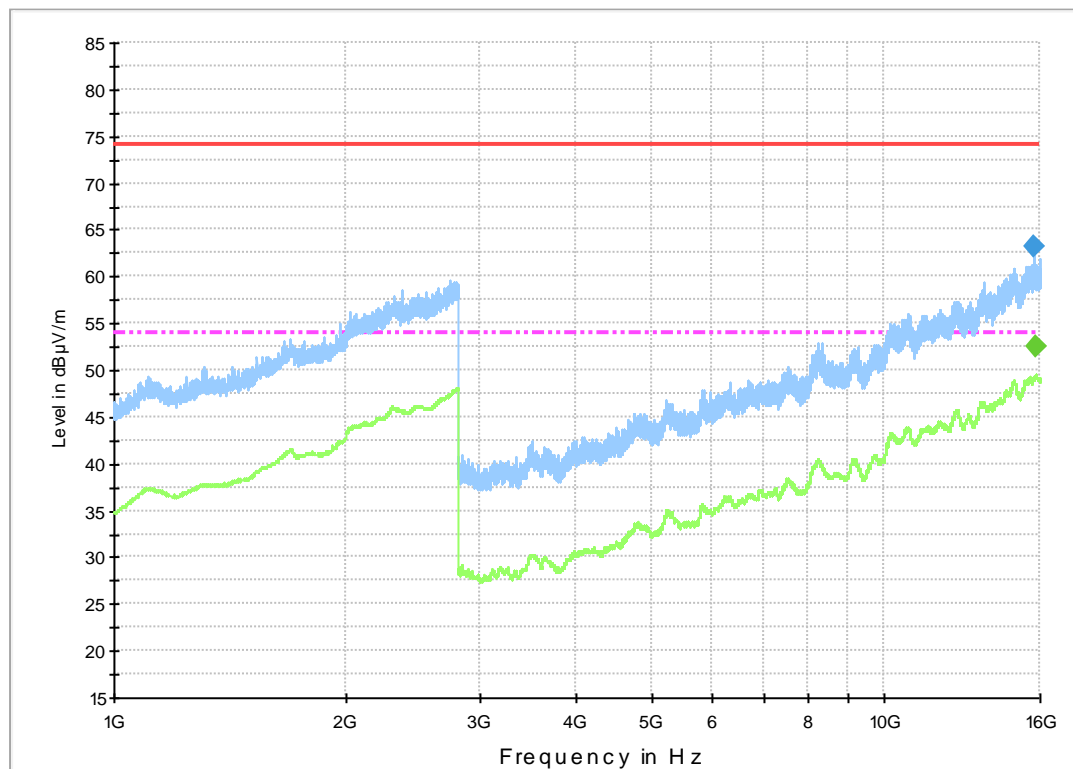
#### Common Information

Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109
Section:	15.109
Operating Mode:	ANT+ RX-Mode
Equipment Class:	Class B
Environmental Conditions:	Humidity: 44%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



## Final Result 1

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
15699.800	63.2	100.0	1000.000	V	315.0	90.0	23.6	10.8	74.0

## Final Result 2

Frequency (MHz)	RMS (dB $\mu$ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
15790.600	52.6	100.0	1000.000	H	274.0	0.0	23.7	1.4	54.0