

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

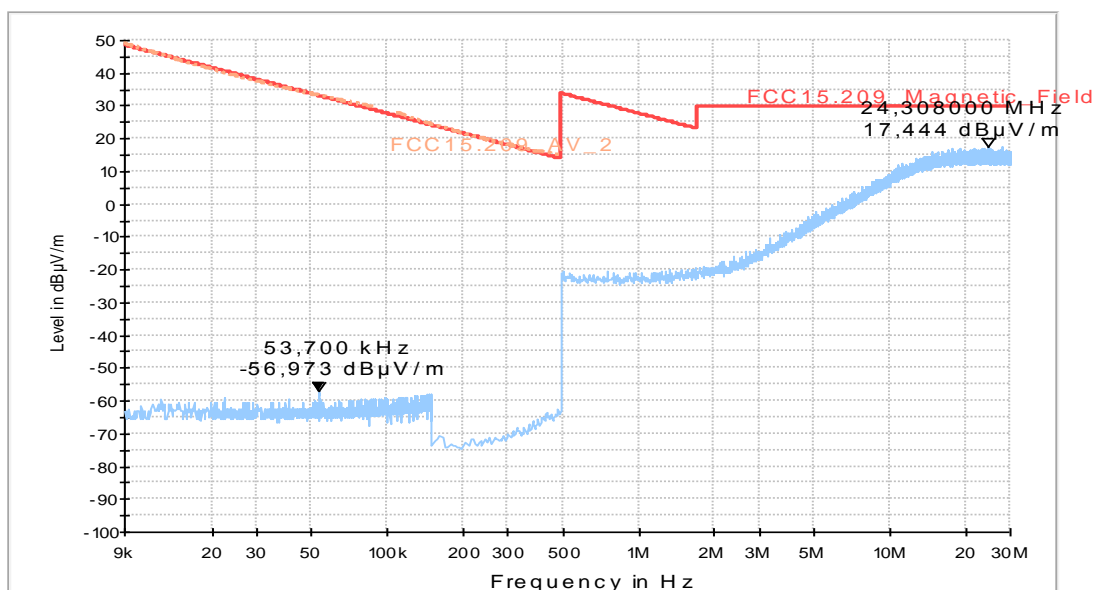
Date:	11.03.2014	Page 1 of 1
Test description:	Magnetic Fieldstrength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	8.51.0	
Distance correction:	used accord. table, pls. see test report	
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)	Margi n - 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_FCC15.209_hor+vert_kipp

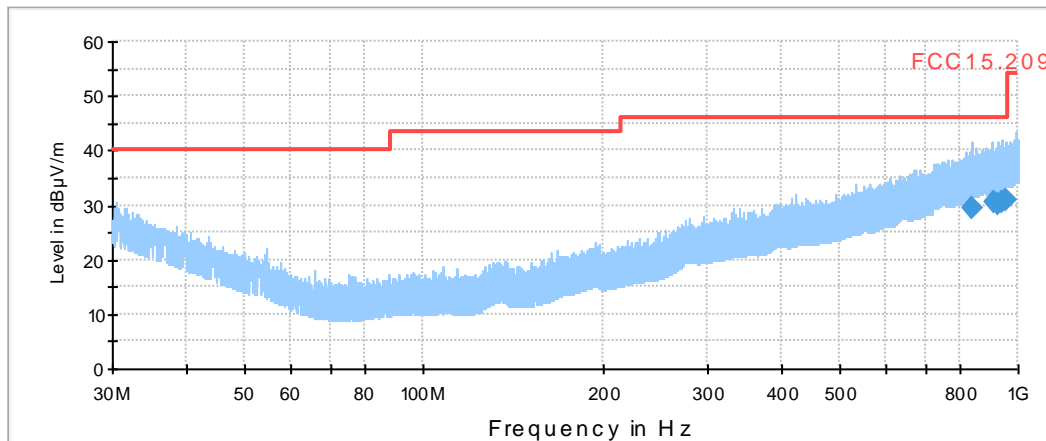


Diagram No. 3.02_Ch39_2DH5

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

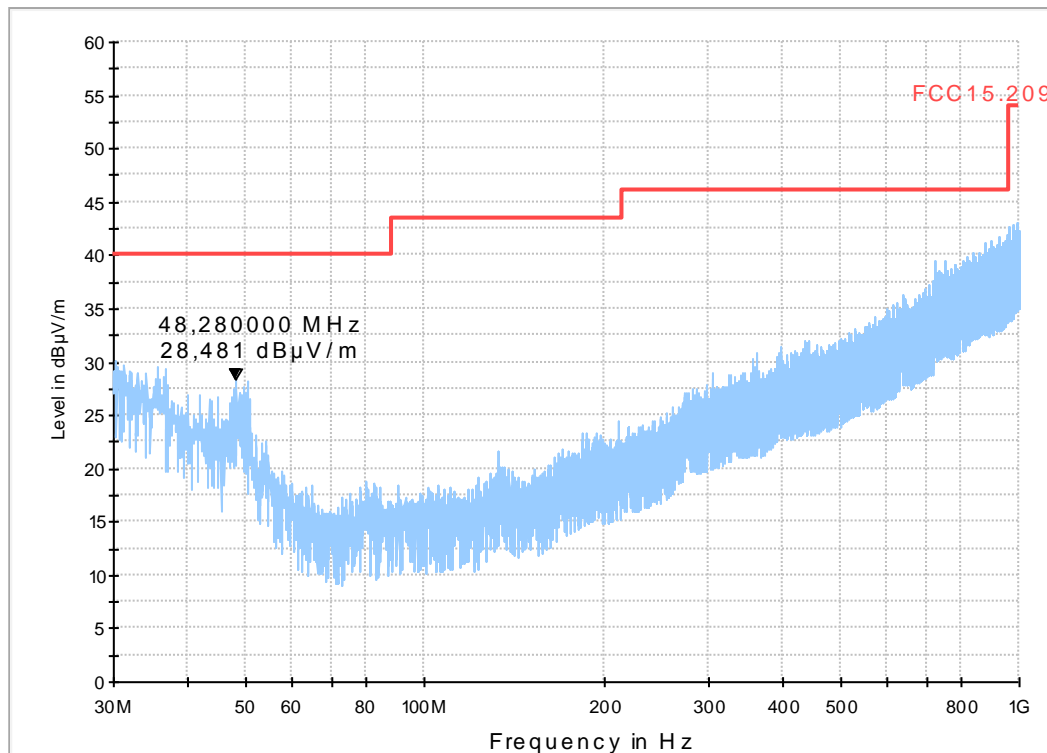


Diagram No. 3.03_Ch78_3DH5

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

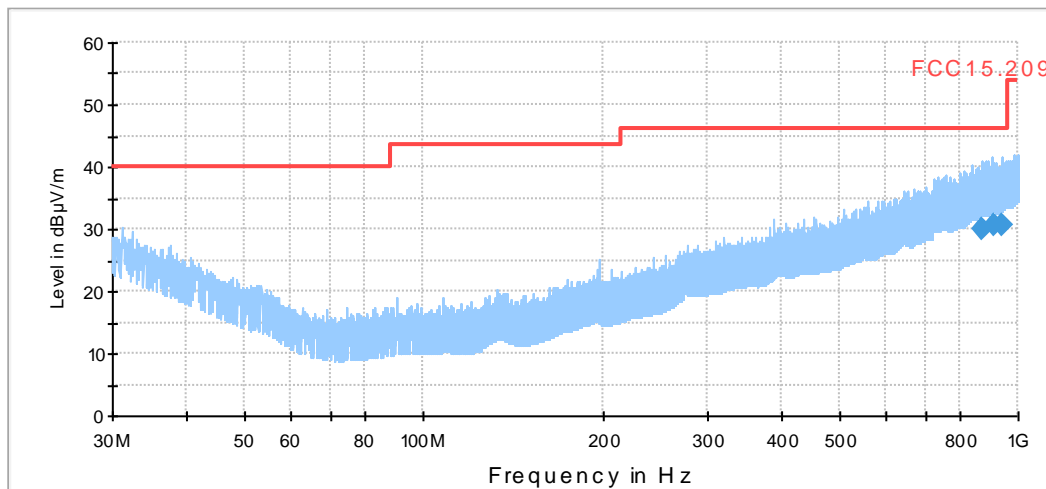
Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA- /LTE Tablet PC

 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

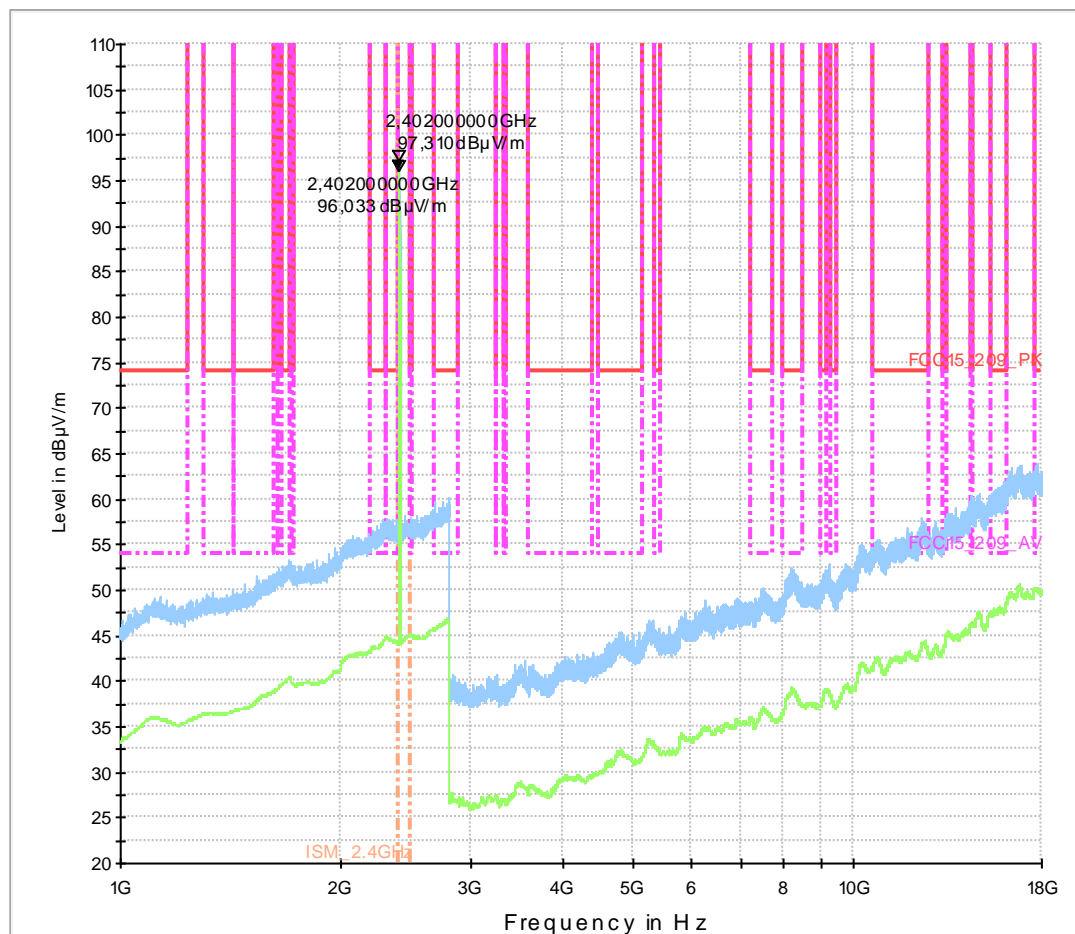


Diagram No.: 4.02_BT_Ch39_2DH5

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

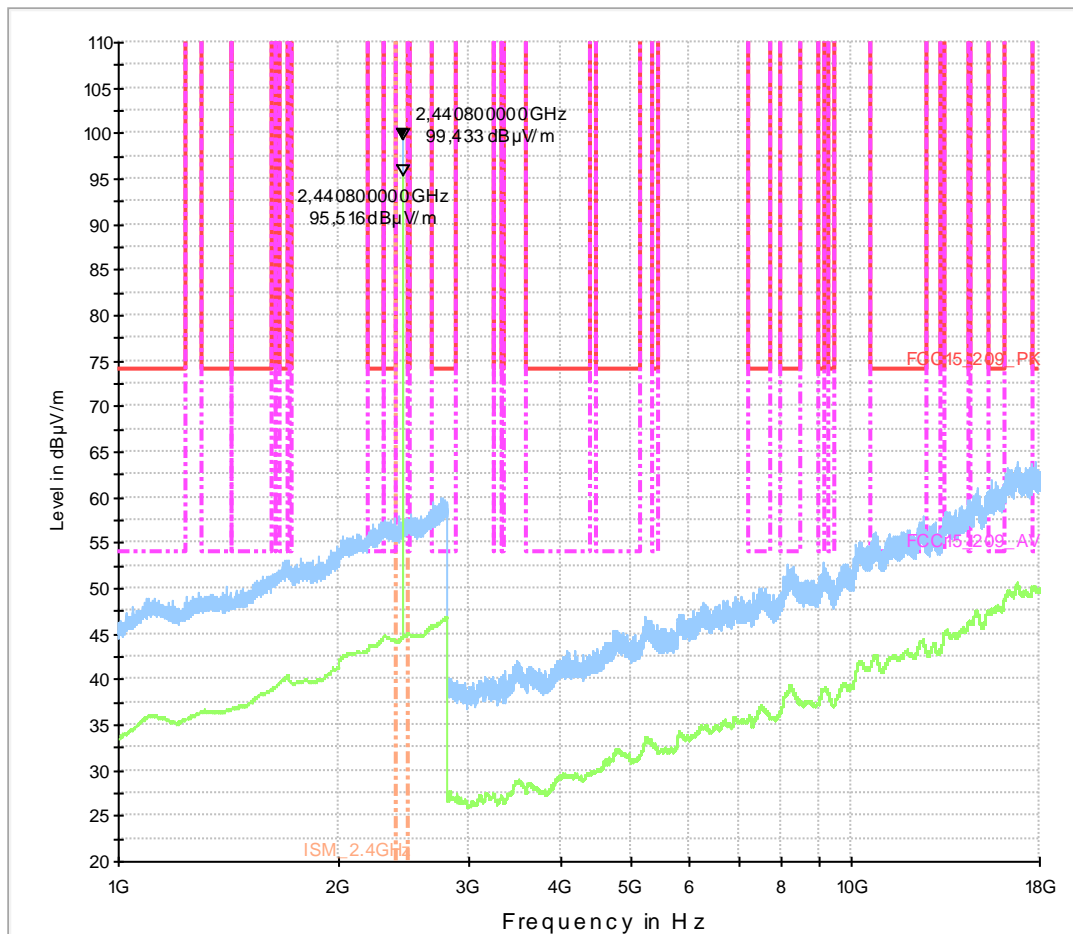


Diagram No.: 4.03_BT_Ch78_3DH5

Common Information

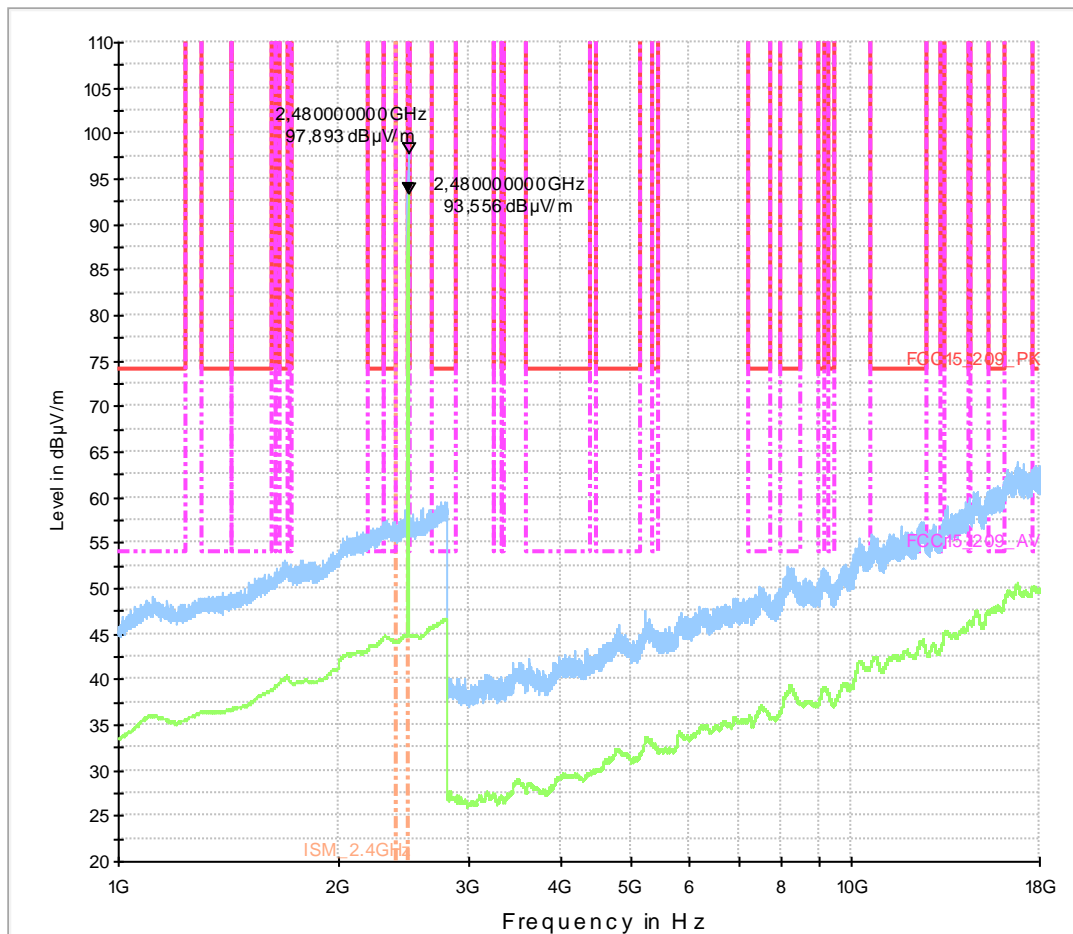
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	GAr
Comment:	Channel no.78
Op. Mode:	Bluetooth

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

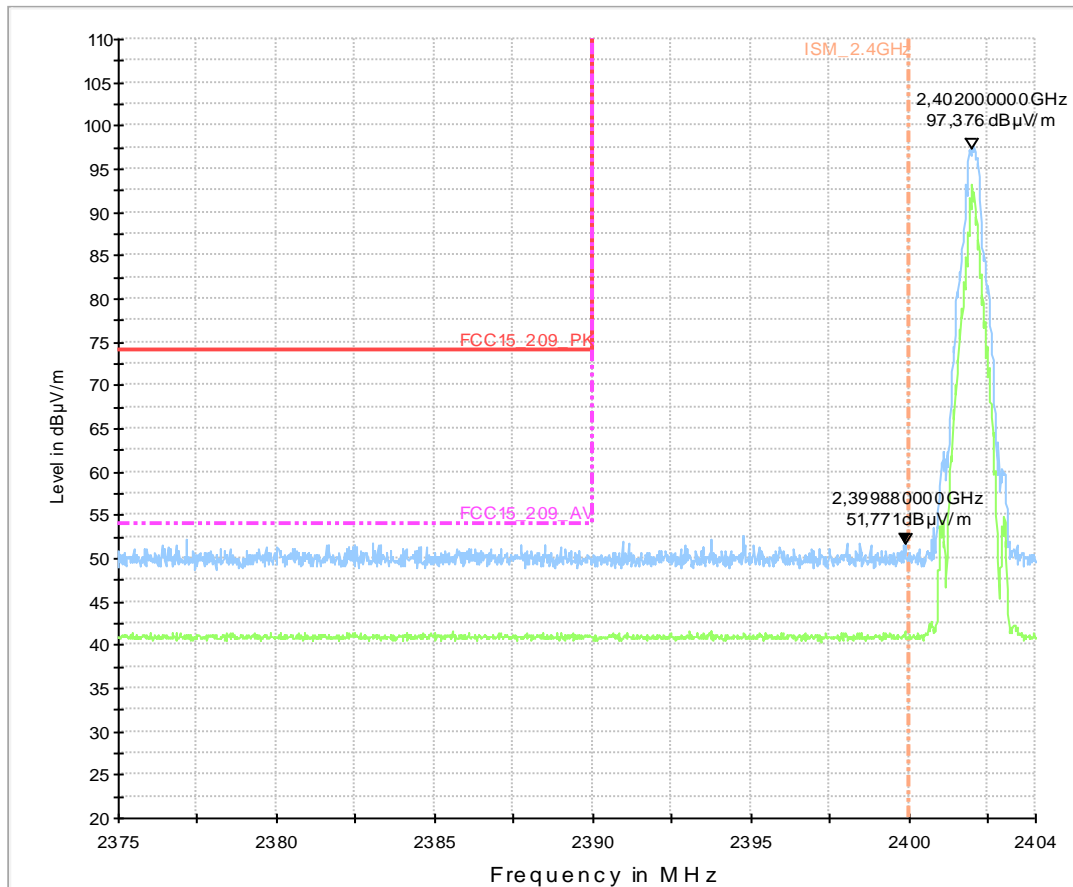


Diagram No.: 9.02_BT-Ch0-3DH5

Common Information

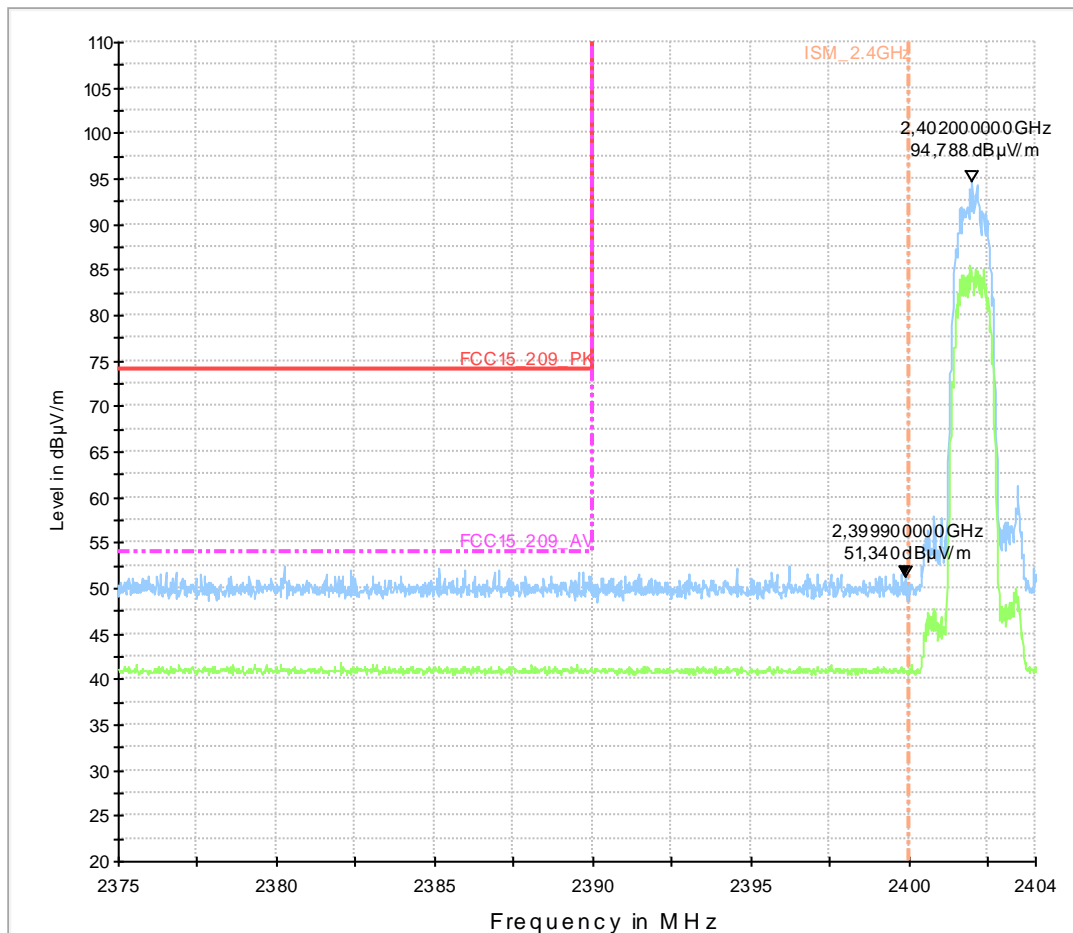
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	cta
Comment:	Channel no. low=0 , 3DH5
Op. Mode:	Bluetooth

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

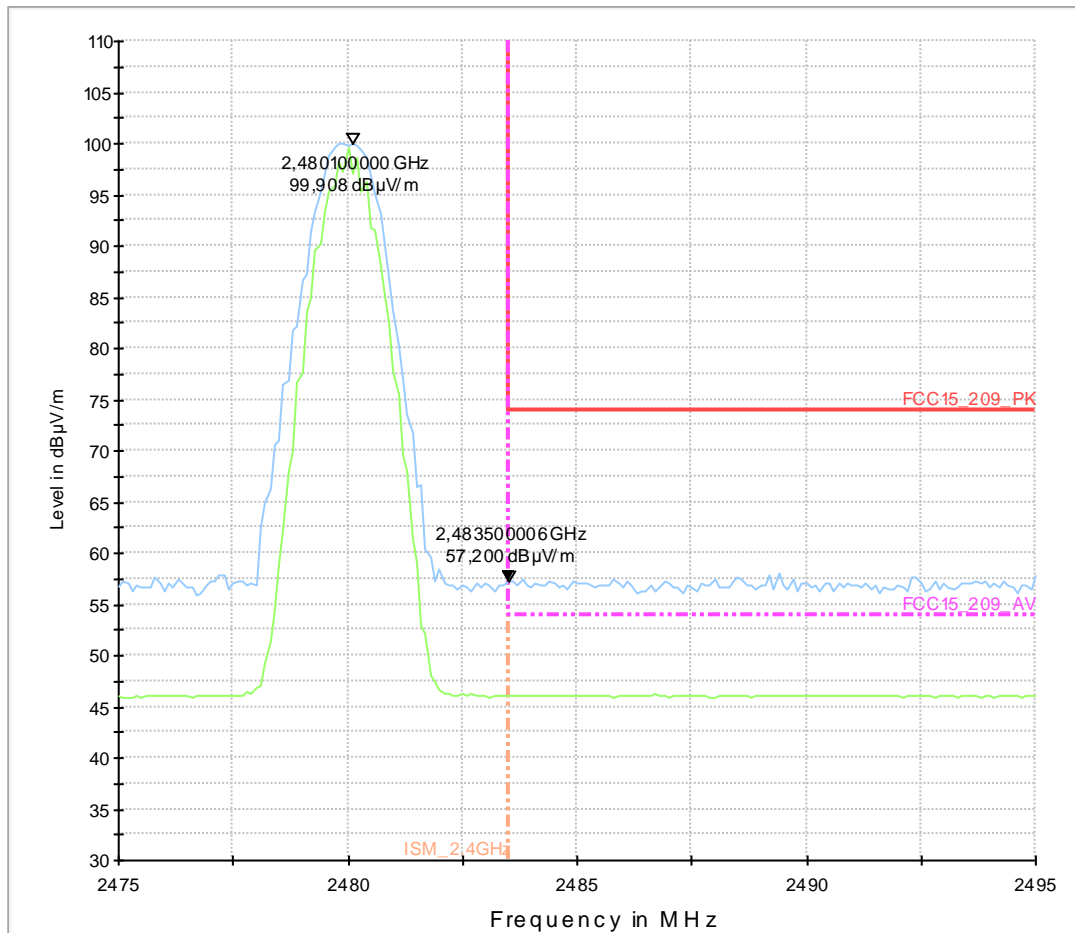


Diagram No.: 9.04_BT_Ch78_3DH5

Common Information

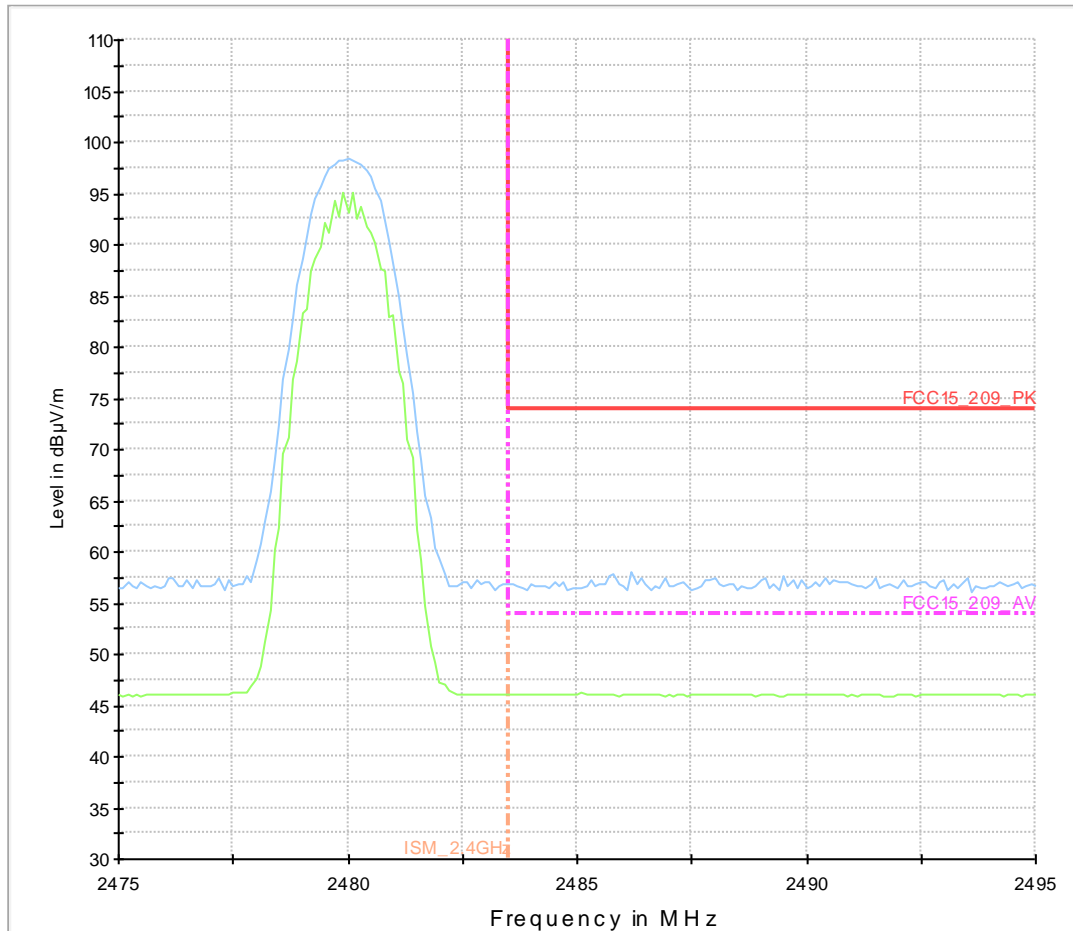
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	кта
Comment:	Channel no. high=78 3DH5
Op. Mode:	Bluetooth

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

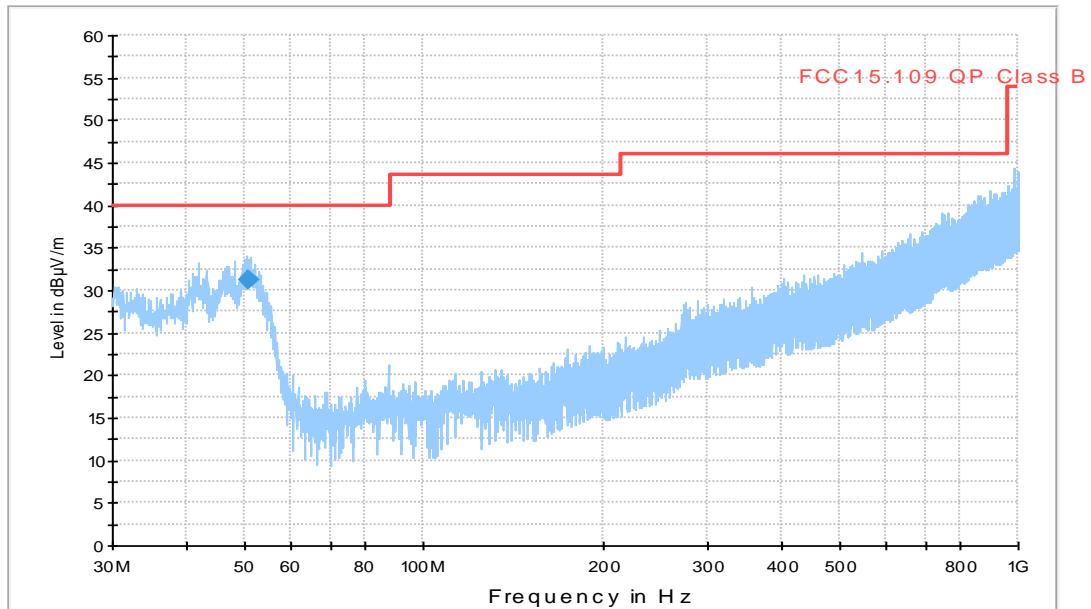
Test description:	Date: 13.03.2014 Page 1 of 2
Test site and distance:	Electric Fieldstrength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Distance correction:	EMC32 V8.51.0
Technical Data:	not used
Used filter:	Please see page 2 for detailed 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

