

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

According to:
FCC Regulations
Part 15.109, Part 15.247

for
Sony Mobile Communications

Tablet PC
(W-LAN 5.7 GHz-Band)

FCC-ID: PY7TM-0042

Laboratory Accreditation and Listings			
 DAkks Deutsche Akkreditierungsstelle D-PL-12047-01-01	 Reg. No.: 736496 MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
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1. Magnetic field strength measurements $f < 30\text{MHz}$

1.1. Channel 149 (a-Mode, 48Mbit data rate)

Diagram No. 2.01_UN3_Ch149_48MBit_HT20

Date: 11.03.2014 Page 1 of 2
 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

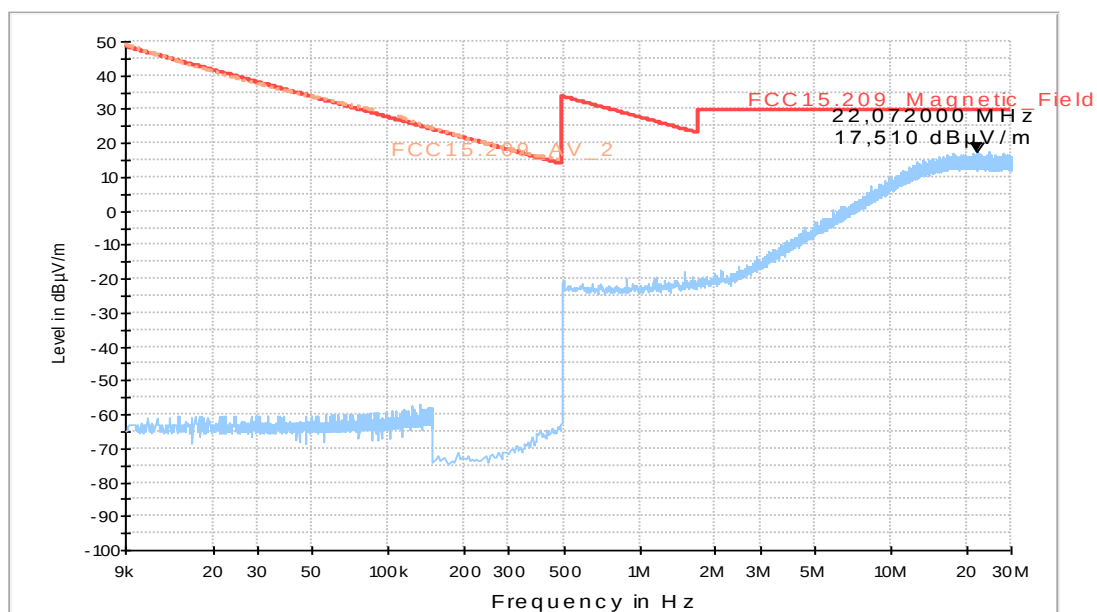
Operator: KRe
 Operating conditions: TX-on continuous, 48MBit, a-Mode
 Power during tests: 12V DC, 120V/60Hz, full loaded batteries
 Comment 1: Channel 149
 Comment 2:

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



EMI Auto Test Template: FCC15.209_magn hor+vert

1.2. Channel 155(AC80-Mode, MCS0 data rate)

Diagram No. 2.02_UN3_Ch155_MCS9_HT80

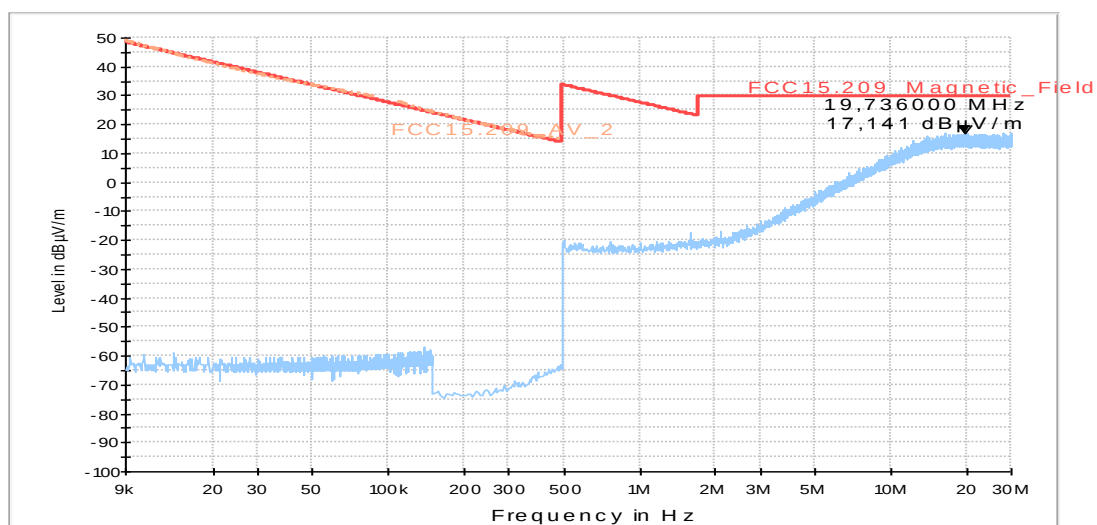
Test description:	Date: 11.03.2014 Page 1 of 2
Test site and distance:	Magnetic Fieldstrength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	8.51.0
Technical Data:	used accord. table, pls. see 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:	KRe
Operating conditions:	TX-on continuous, MCS9, ac80-Mode
Power during tests:	12V DC, 120V/60Hz, full loaded batteries
Comment 1:	Channel 155
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



EMI Auto Test Template: FCC15.209_magn hor+vert

2. Radiated field strength measurements 30MHz<f<1GHz

2.1. Channel 149 (a-Mode, 48Mbps data rate)

Diagram No. 3.01_UN3_Ch149_48MBit

13.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V8.51.0
 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

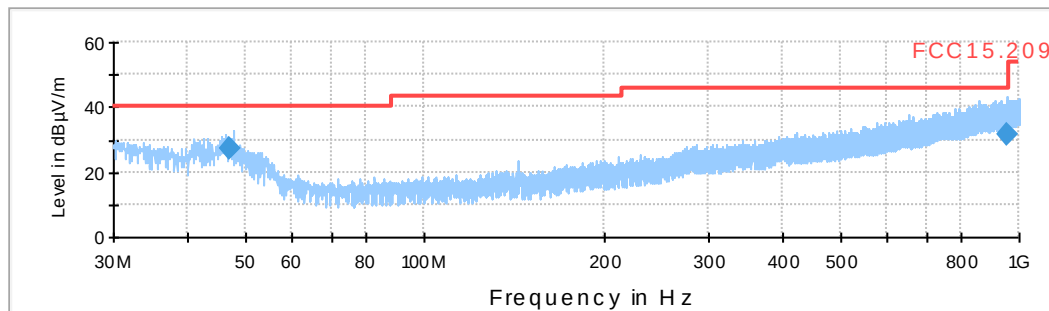
Operator: FTe
 Operating conditions: BT
 Power during tests: 120V 60Hz
 Comment 1:

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: 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: -

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)	Correction (dB)	Margin (dB)	Limit (dBµV/m)
46.960000	27.1	1000.0	120.000	105.0	V	277.0	90.0	14.7	12.90	40.00
952.150000	31.4	1000.0	120.000	148.0	V	110.0	0.0	27.5	14.60	46.00

2.2. Channel 157 (AC20-Mode, MCS5 data rate)

Diagram No. 3.02_UN3_Ch157_MCS5

13.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V8.51.0
 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

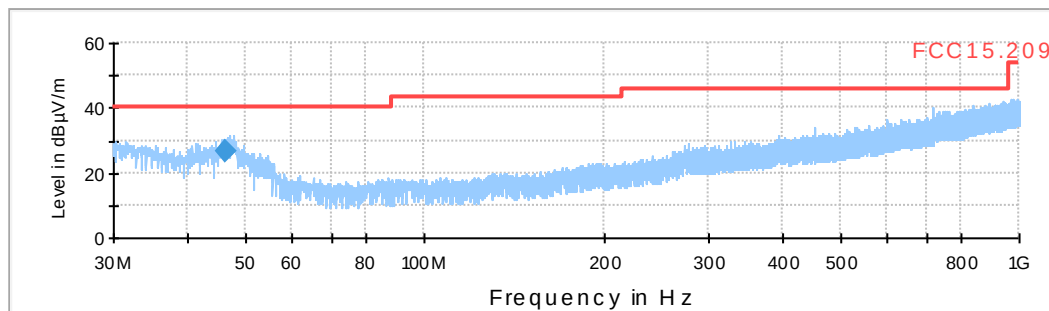
Operator: FTe
 Operating conditions: BT
 Power during tests: 120V 60Hz
 Comment 1:

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: 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: -

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)	Correction (dB)	Margin (dB)
46.170000	26.8	1000.0	120.000	105.0	V	320.0	90.0	15.0	13.20

(continuation of the "Final Result 1" table from column 10 ...)

Frequency	Limit (dBµV/m)
46.170000	40.00

2.3. Channel 165 (n-Mode, 26Mbit data rate)

Diagram No. 3.03_UN3_Ch165_26MBit

13.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V8.51.0
 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

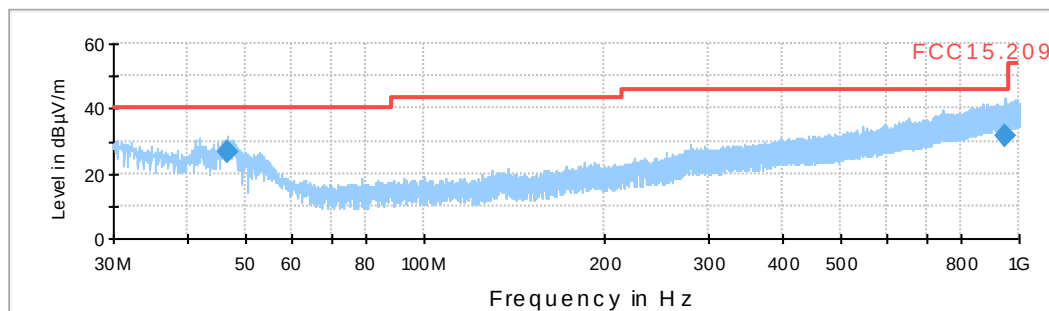
Operator: FTe
 Operating conditions: BT
 Power during tests: 120V 60Hz
 Comment 1:

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: 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: -

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 (dB)
46.790000	26.3	1000.0	120.000	105.0	V	270.0	90.0	14.7	13.70
...	...	...	...	...	...	...	...	...	...

(continuation of the "Final Result 1" table from column 10 ...)

Frequency	Limit (dBµV/m)
46.790000	40.00
...	...

2.4. Channel 151 (AC40-Mode, MCS4 data rate)

Diagram No. 3.04_UN3_Ch151_MCS4

13.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V8.51.0
 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

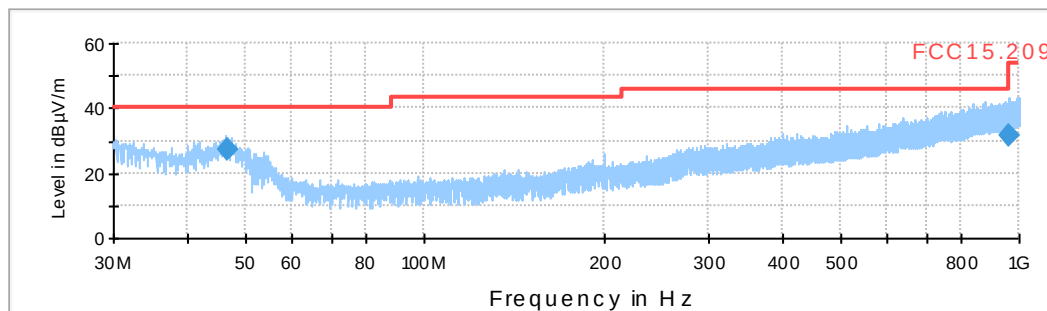
Operator: ABA
 Operating conditions: WLAN
 Power during tests: 120V 60Hz
 Comment 1:

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: 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: -

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)	Correction (dB)	Margin (dB)
46.710000	27.2	1000.0	120.000	105.0	V	273.0	90.0	14.8	12.80
...	...	...	...	...	...	...	...	...	...

(continuation of the "Final Result 1" table from column 10 ...)

Frequency	Limit (dBµV/m)
46.710000	40.00
...	...

2.5. Channel 159 (AC40-Mode, MCS6 data rate)

Diagram No. 3.05_UN3_Ch159_MCS6

14.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V8.51.0
 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

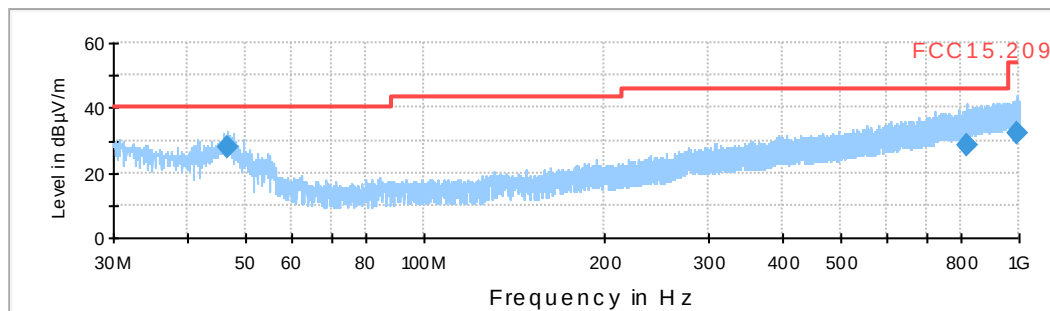
Operator: ABA
 Operating conditions: WLAN
 Power during tests: 120V 60Hz
 Comment 1:

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: 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: -

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)	Correction (dB)	Margin (dB)
46.580000	27.6	1000.0	120.000	105.0	V	257.0	90.0	14.8	12.40
...	...	...	...	...	...	...	...	...	...

(continuation of the "Final Result 1" table from column 10 ...)

Frequency	Limit (dBµV/m)
46.580000	40.00
...	...

2.6. Channel 155 (AC80-Mode, MCS0 data rate)

Diagram No. 3.06_UN3_Ch155_MCS0

14.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V8.51.0
 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

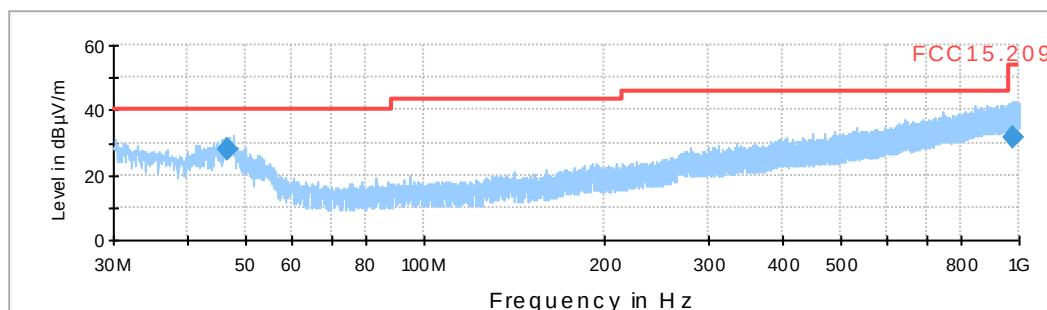
Operator: ABA
 Operating conditions: WLAN
 Power during tests: 120V 60Hz
 Comment 1:

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: 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: -

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 (dB)
46.770000	27.7	1000.0	120.000	105.0	V	285.0	90.0	14.8	12.30
...	...	...	...	...	...	...	...	...	...

(continuation of the "Final Result 1" table from column 10 ...)

Frequency	Limit (dBµV/m)
46.770000	40.00
...	...

3. Radiated field strength measurements $1\text{GHz} < f < 18\text{GHz}$

3.1. Channel 149 (a-Mode, 48Mbit data rate)

Diagram No.: 4.01a

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:	ABA
Comment:	Channel no. 149 a-Mode, 48MBit
Op. Mode:	WLAN 5GHz

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:	-

00431_FCC15247_5GHz_Band_SM1_KP1_WLAN_1ms

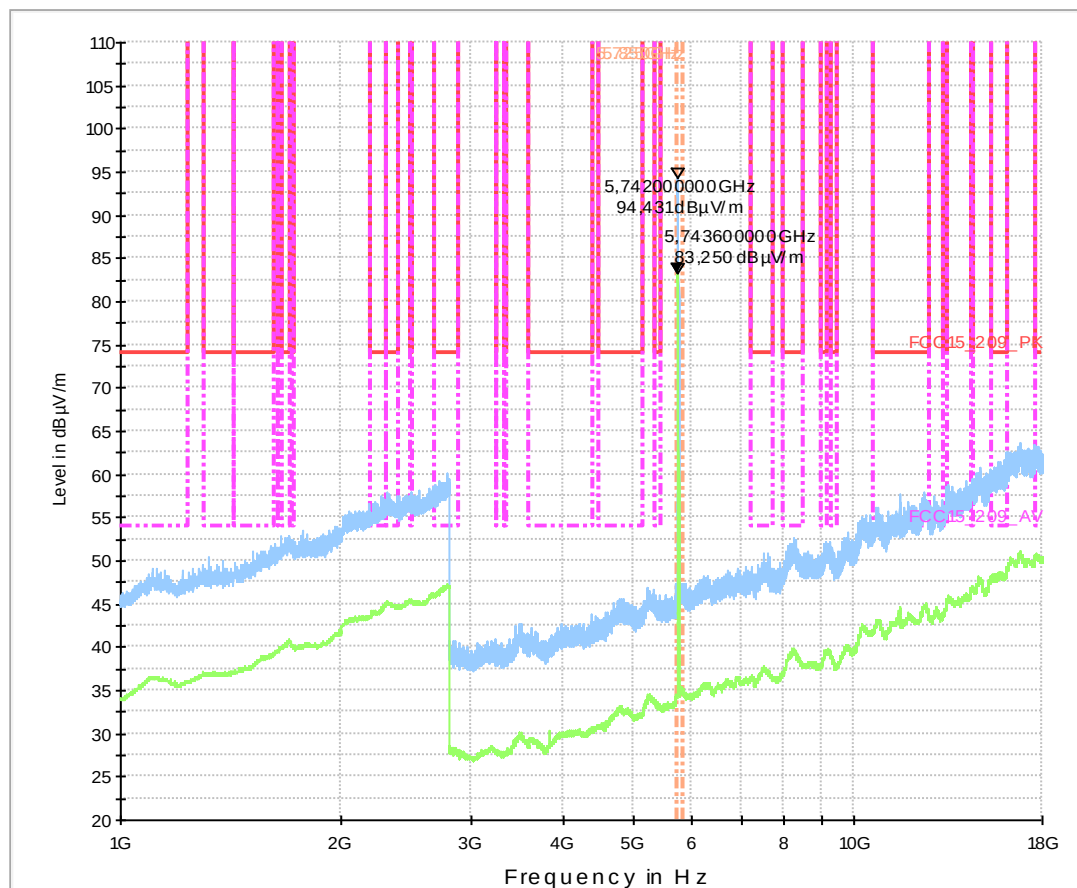


Diagram No.: 4.01b_UN3_Ch149_48MBit

Common Information

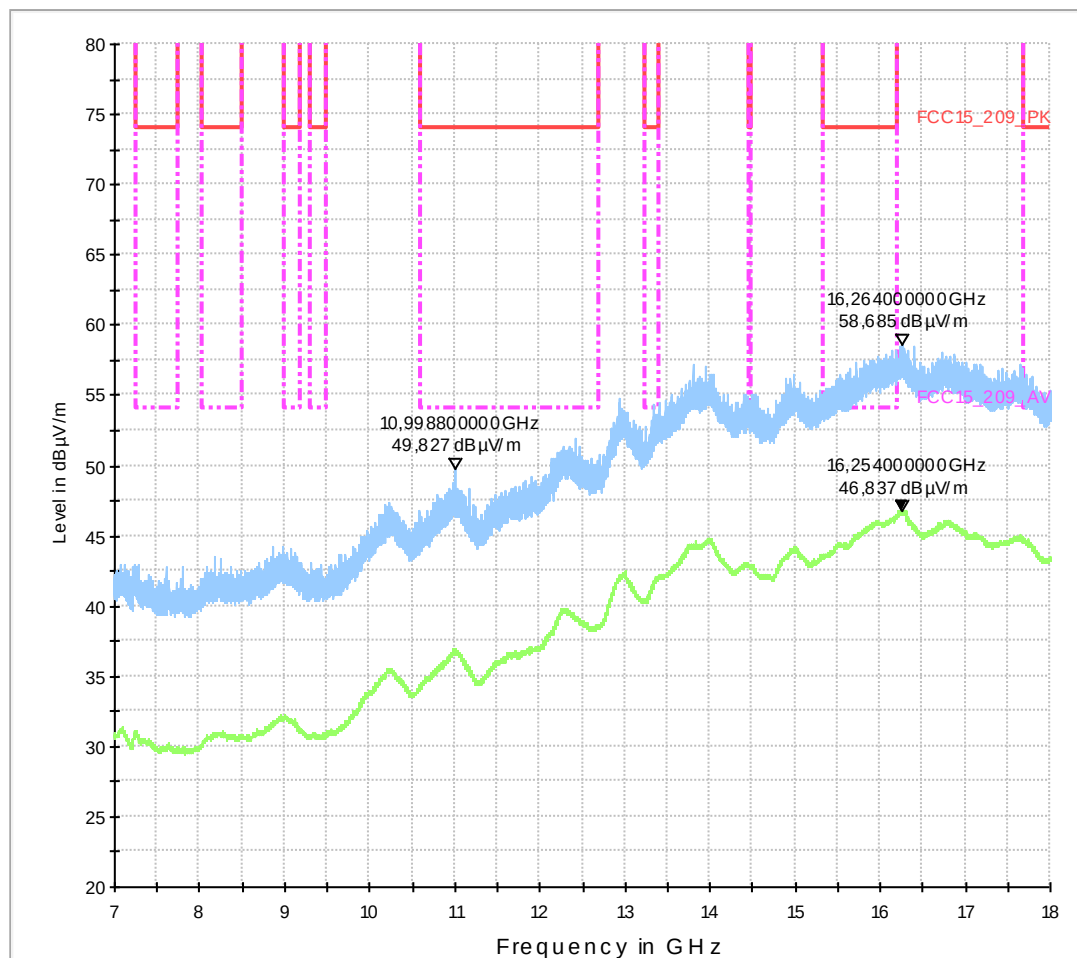
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Wlan 5G TX, continuous, a-Mode, 48MB, Ch149
Test Condition:	Humidity: 38%rH; Temperature: 20°C
Operator Name:	YZH

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:	-

Sweep2_SM1_KP1_W LAN_FCC15247



3.2. Channel 157 (AC20-Mode, MCS5 data rate)

Diagram No.: 4.02a_UN3_Ch157_MCS5

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous, a-Mode, MCS5
Operator Name:	ABA
Comment:	Channel no. low=157

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:	-

00431_Sweep1_SM1_KP1_W LAN_FCC15247

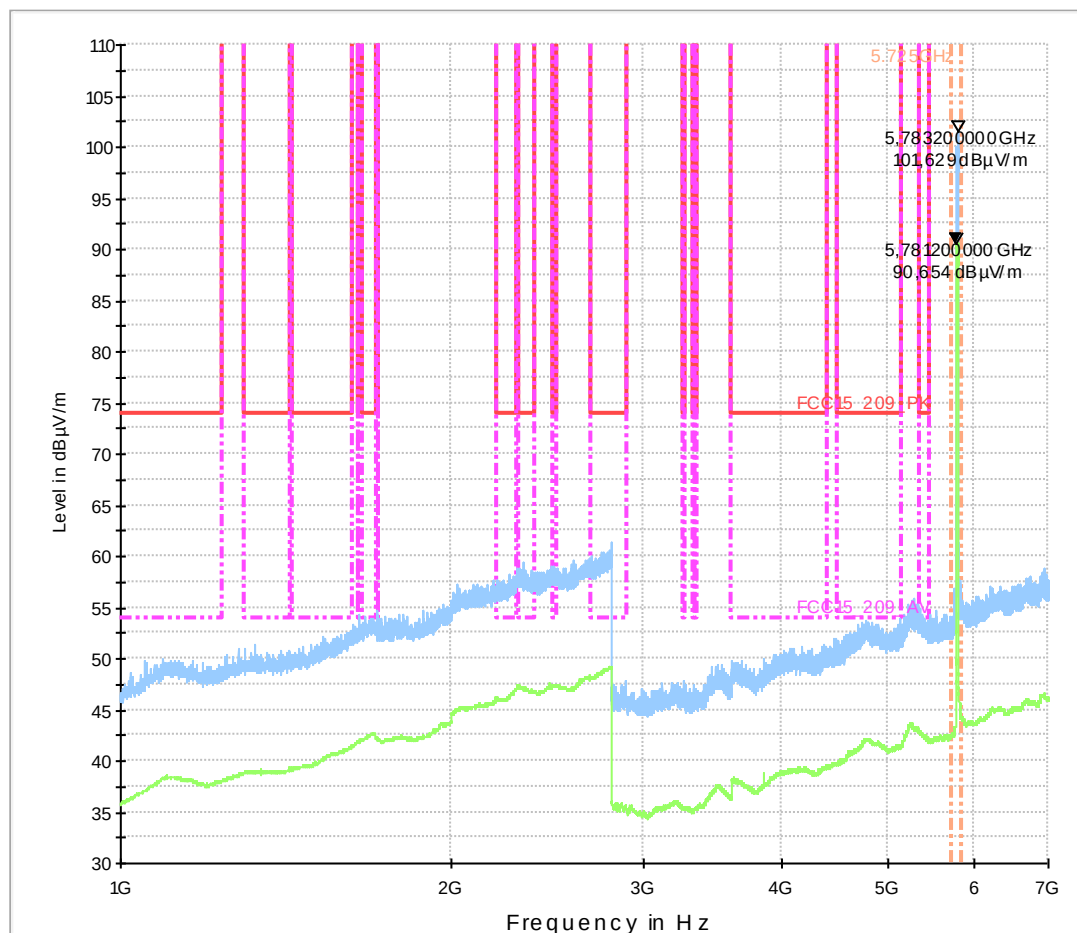


Diagram No.: 4.02b_UN3_Ch157_MCS5

Common Information

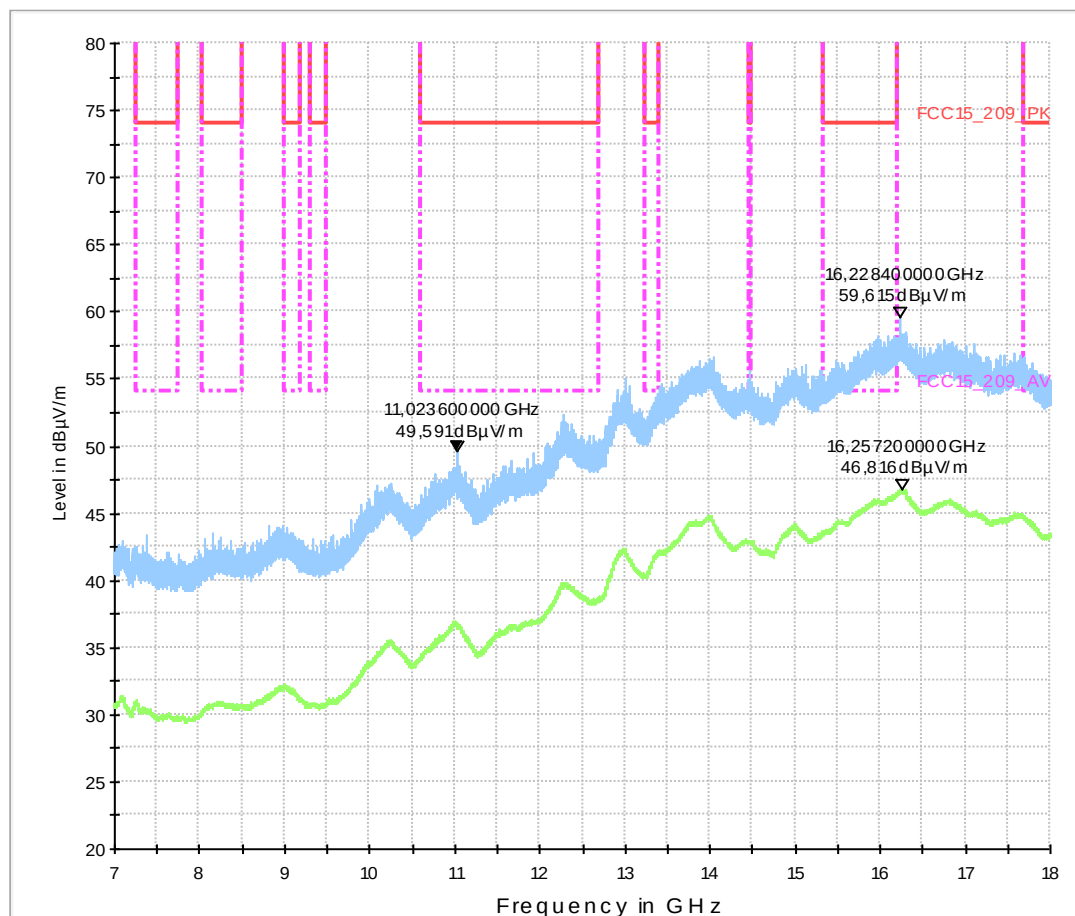
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Wlan 5G TX, continuous, AC20-Mode, MCS5, Ch157
Test Condition:	Humidity: 38%rH; Temperature: 20°C
Operator Name:	YZH

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:	-

Sweep2_SM1_KP1_W LAN_FCC15247



3.3. Channel 165 (n-Mode, MCS5 data rate)

Diagram No.: 4.03a_UN3_Ch165_MCS5

Common Information

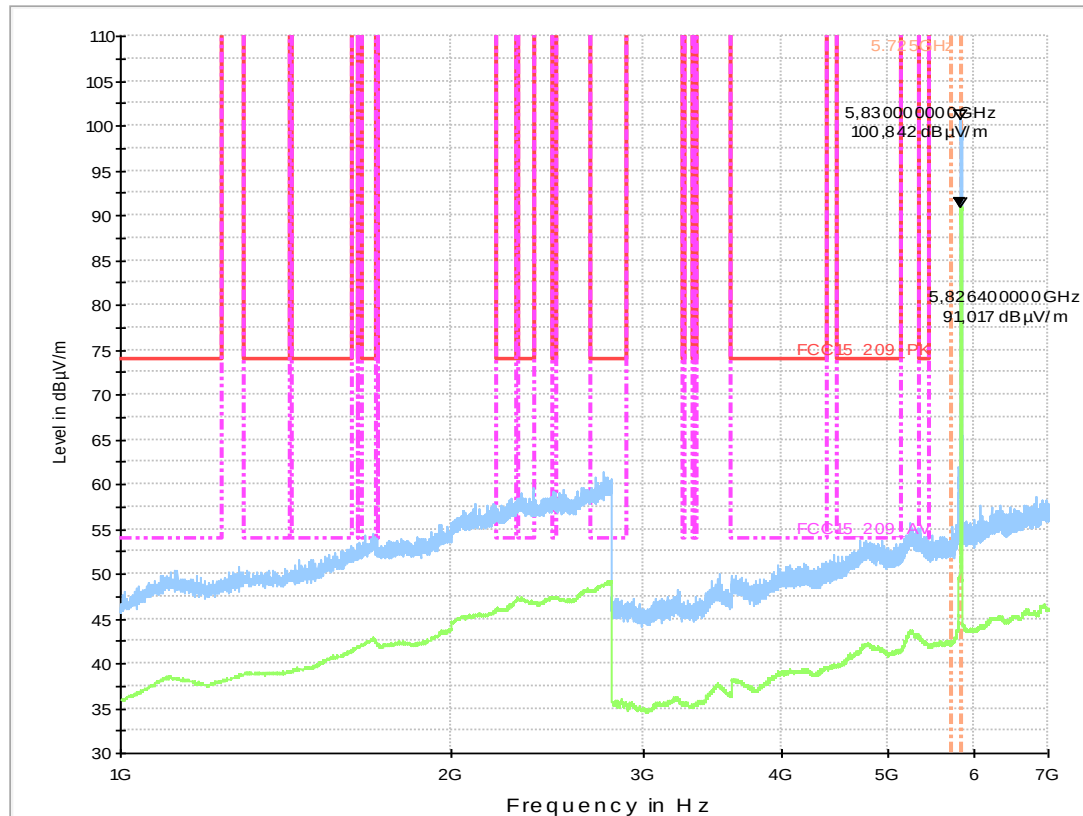
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous, n-Mode, MCS5 - 26MBit
Operator Name:	ABA
Comment:	Channel no. low=157

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:	-

00431_Sweep1_SM1_KP1_WLAN_FCC15247



EMI Auto Test Template: 00431_Sweep1_SM1_KP1_WLAN_FCC15247

Diagram No.: 4.03b_UN3_Ch165_MCS5

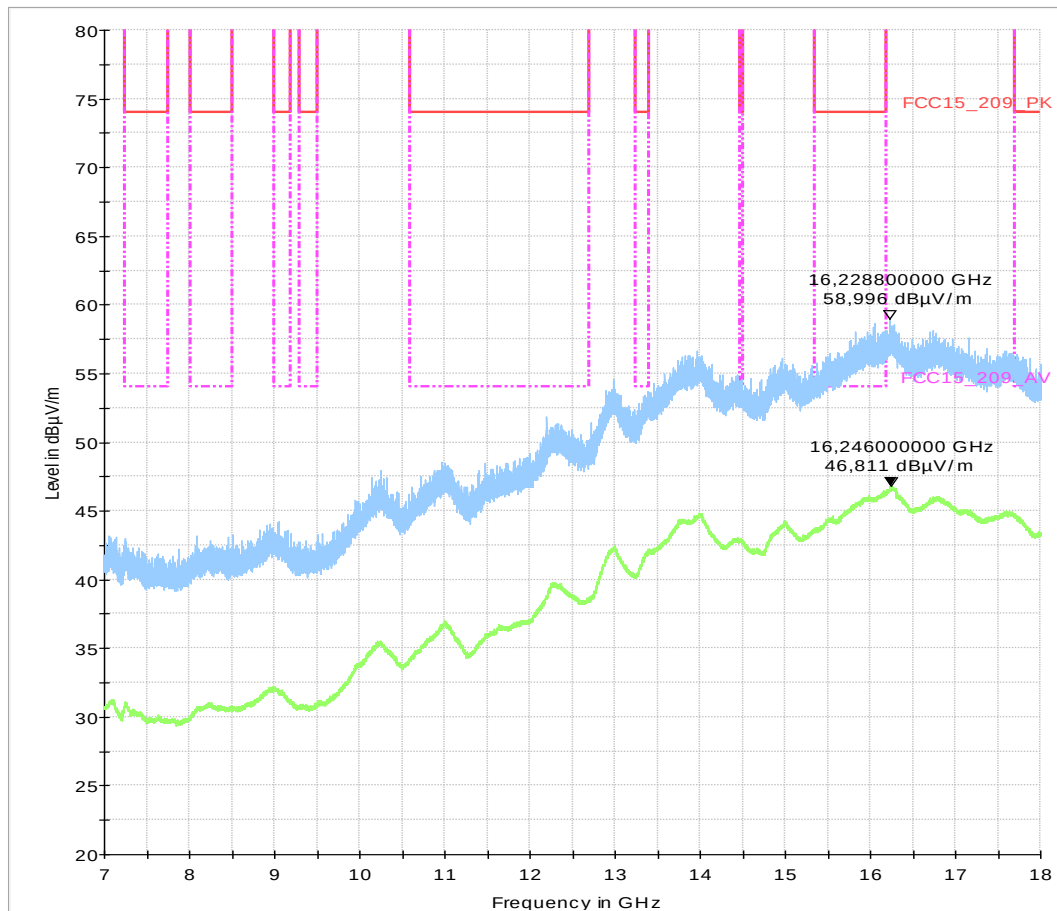
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous, n-Mode, MCS5 - 26MBit
Operator Name:	ABA
Comment:	Channel no. low=157

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:	-



3.4. Channel 151 (AC40-Mode, MCS4 data rate)

Diagram No.: 4.04a_UN3_Ch151_MCS4

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous, n-Mode, MCS4
Operator Name:	ABA
Comment:	Channel no. low=151

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:	-

00431_Sweep1_SM1_KP1_W LAN_FCC15247

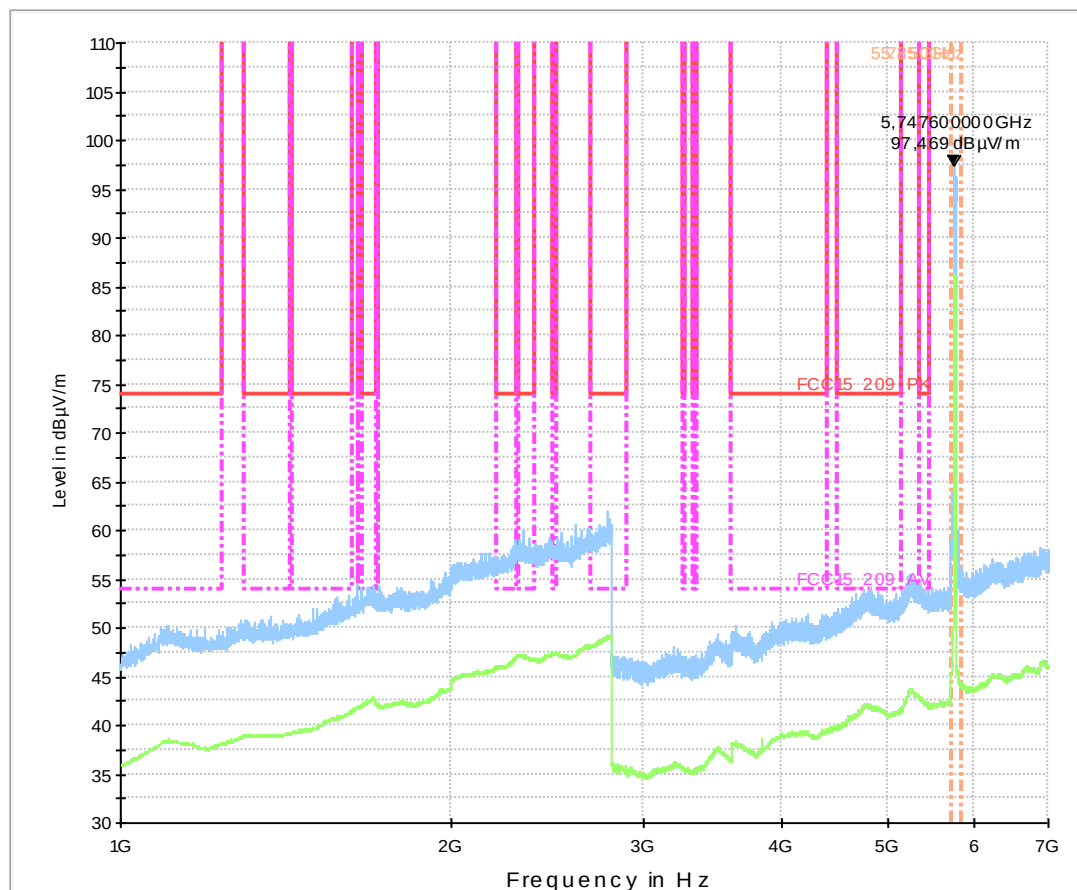


Diagram No.: 4.04b_UN3_Ch151_MCS4

Common Information

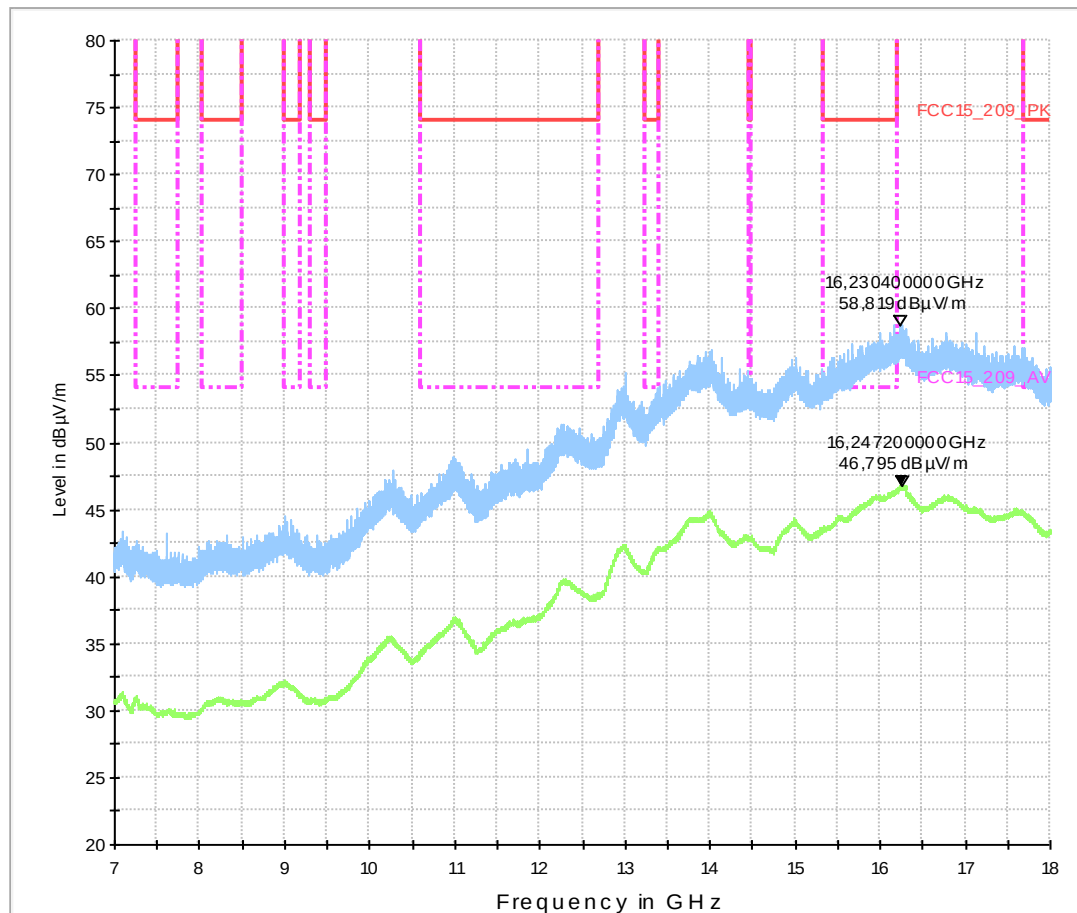
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Wlan 5G TX, continuous, AC40Mode, MCS4, Ch151
Test Condition:	Humidity: 38%rH; Temperature: 20°C
Operator Name:	YZH

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:	-

Sweep2_SM1_KP1_W LAN_FCC15247



3.5. Channel 159 (AC40-Mode, MCS6 data rate)

Diagram No.: 4.05a_UN3_Ch159_MCS6

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous, AC40-Mode, MCS6
Operator Name:	ka
Comment:	Channel no. low=159
Test Conditions:	Humidity: 34%rH; Temperature: 22°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:	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:	-

00431_Sweep1_SM1_KP1_W LAN_FCC15247

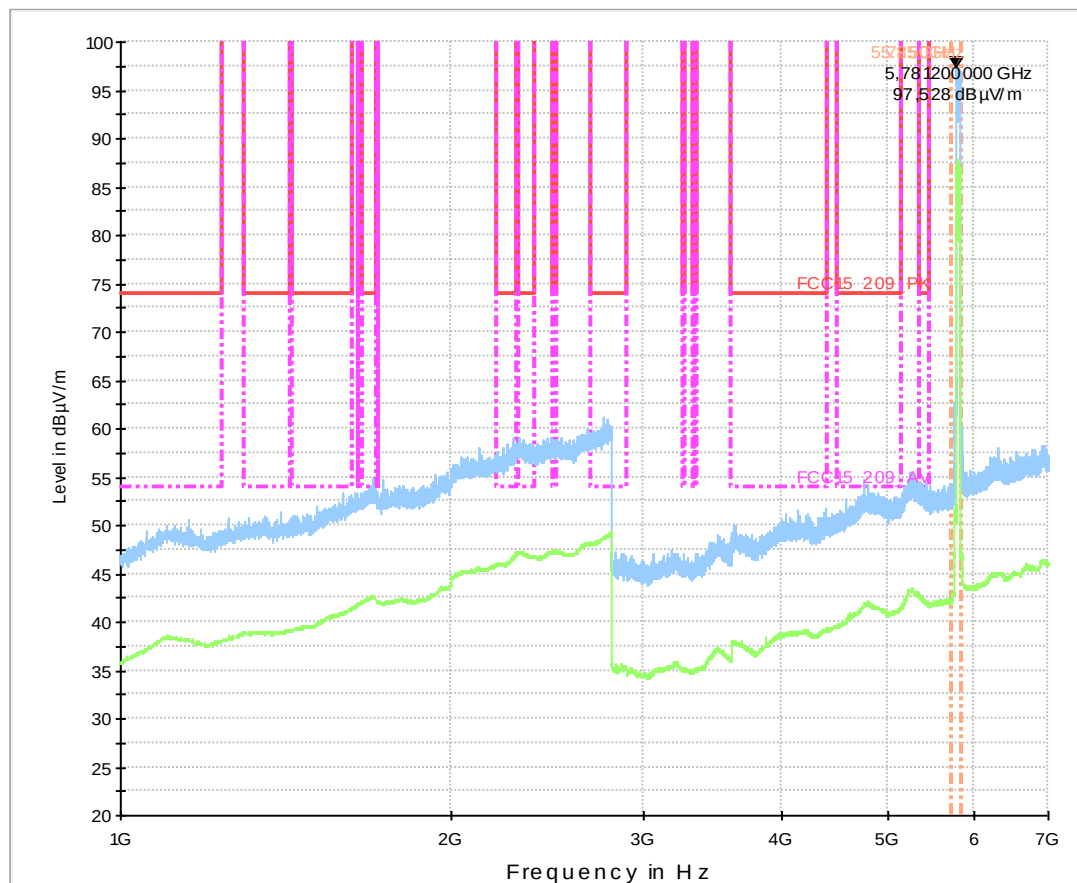


Diagram No.: 4.05b_UN3_Ch159_MCS6

Common Information

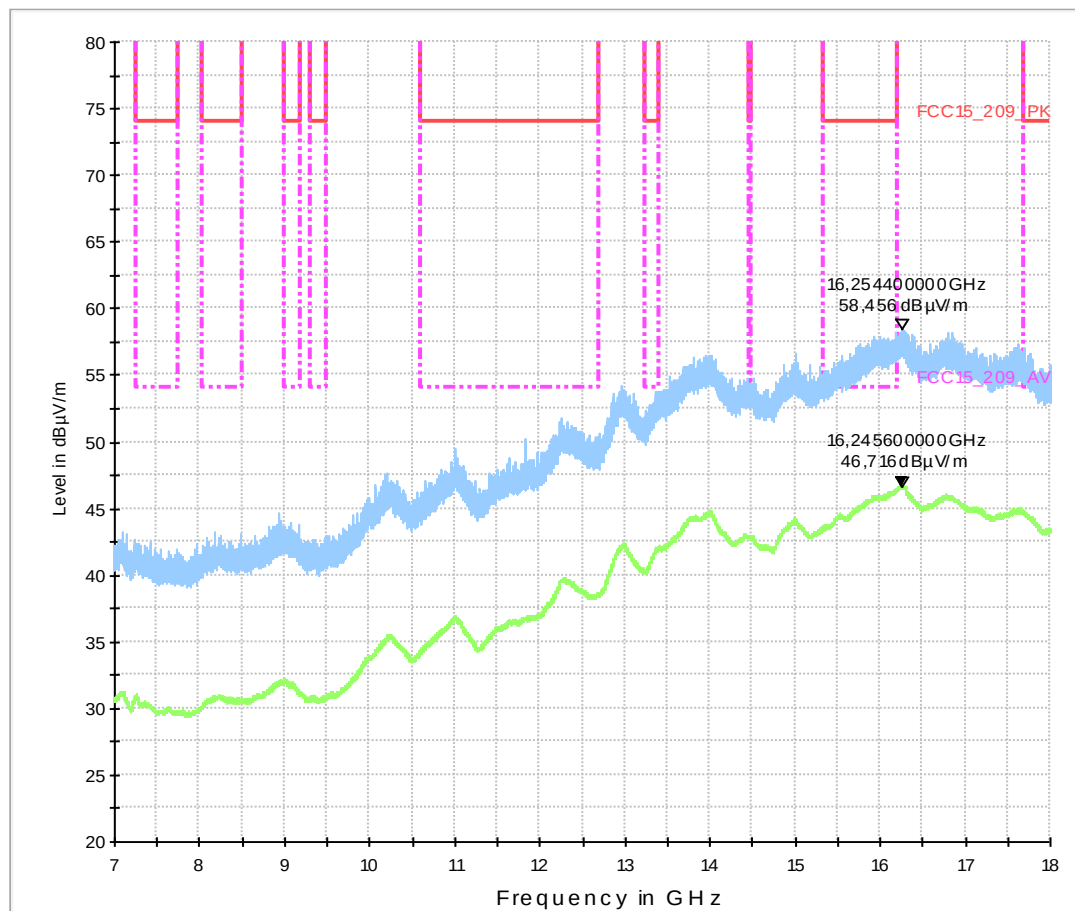
Test Description:	Radiated field strength emission in 1m distance
Test Standard:	FCC 15.247&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	WLAN 5G TX, continuous, AC40-Mode, MCS6
Operator Name:	hta
Comment:	Channel no. high=159
Test Conditions:	Humidity: 34%rH; Temperature: 22°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:	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:	-

Sweep2_SM1_KP1_WLAN_FCC15247



3.6. Channel 155 (AC80-Mode, MCS0 data rate)

Diagram No.: 4.06a_UN3_Ch155_MCS0

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
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous, AC80-Mode, MCS0
Operator Name:	ka
Comment:	Channel no.155
Test Conditions:	Humidity: 34%rH; Temperature: 22°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:	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:	-

00431_Sweep1_SM1_KP1_W LAN_FCC15247

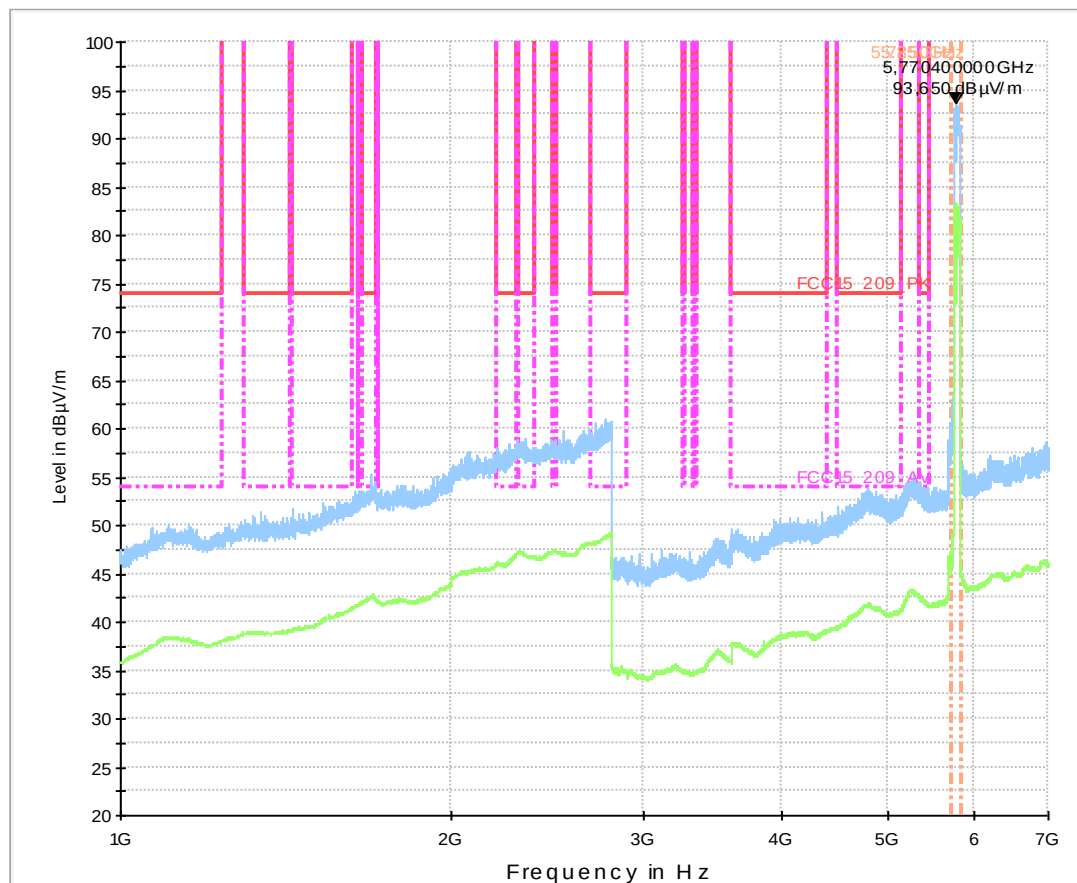


Diagram No.: 4.06b_UN3_Ch155_MCS0

Common Information

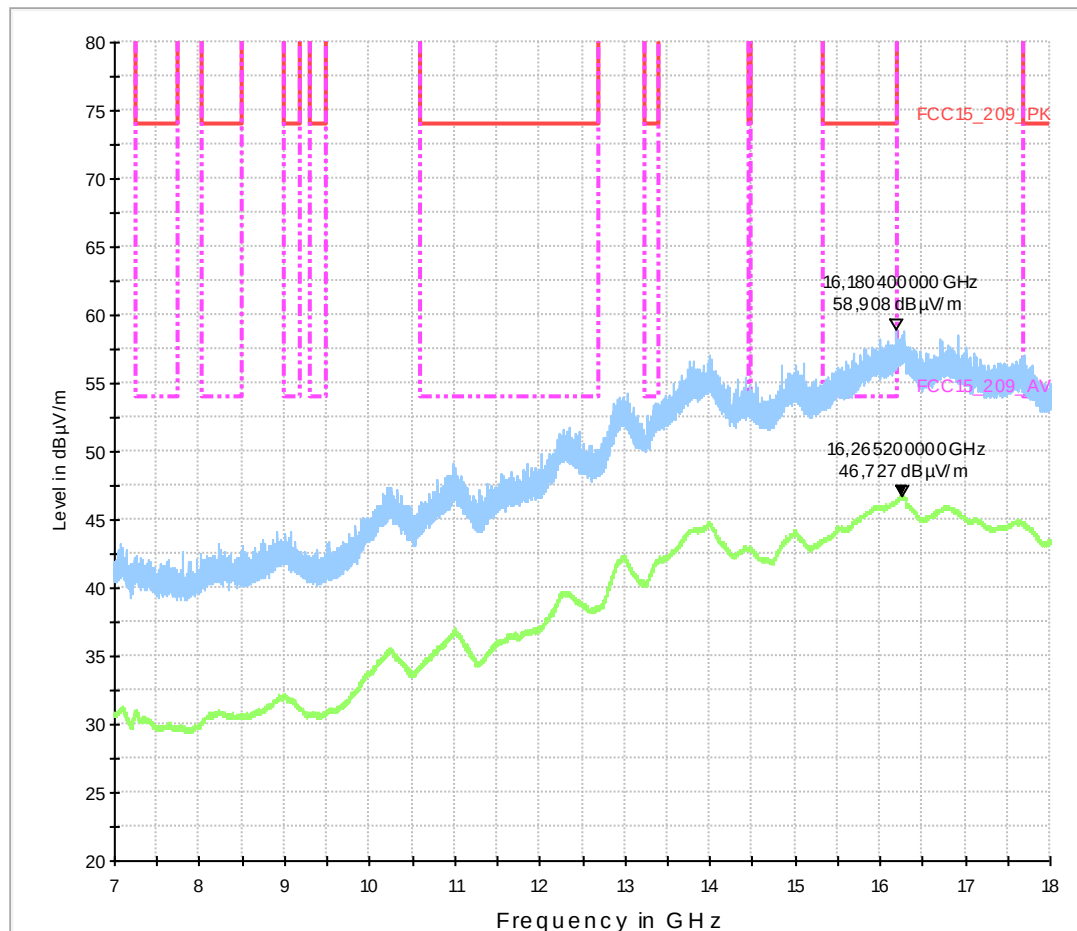
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous, AC80-Mode, MCS0
Operator Name:	ka
Comment:	Channel no.155
Test Conditions:	Humidity: 33%rH; Temperature: 22°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:	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:	-

Sweep2_SM1_KP1_W LAN_FCC15247



4. Radiated field strength measurements 18GHz < f < 40GHz

4.1. Channel 149 (a-Mode, 48Mbit)

Diagram No.: 4.01c

Common Information

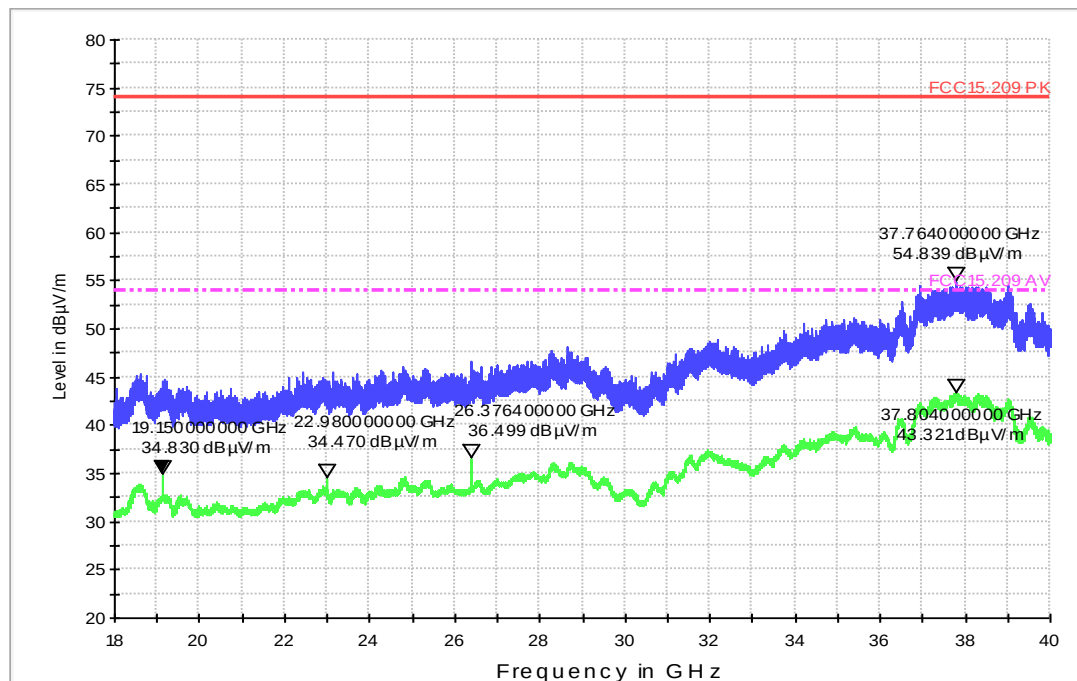
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
Operation mode:	Wlan 5GHz, TX mode continuous
Operator Name:	dpa
Comment:	Ch149, a-mode, 48 MB

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:	-

EMI Scan_18_40GHz_Pre_fast_500us



4.2. Channel 157 (AC20-Mode, MCS5)

Diagram No.: 4.02c

Common Information

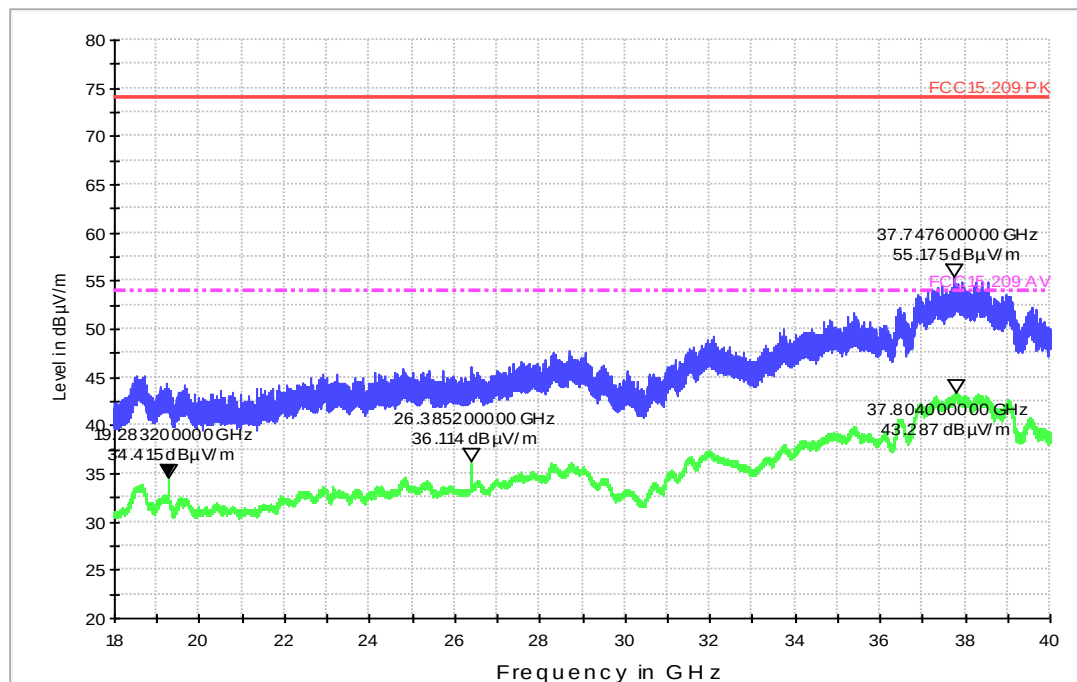
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
Operation mode:	WLAN 5GHz, TX mode continuous
Operator Name:	dpa
Comment:	Ch157, 20ac-mode, MCS5

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:	-

EMI Scan_18_40GHz_Pre_fast_500us



4.3. Channel 165 (n-Mode, 26Mbit)

Diagram No.: 4.03c

Common Information

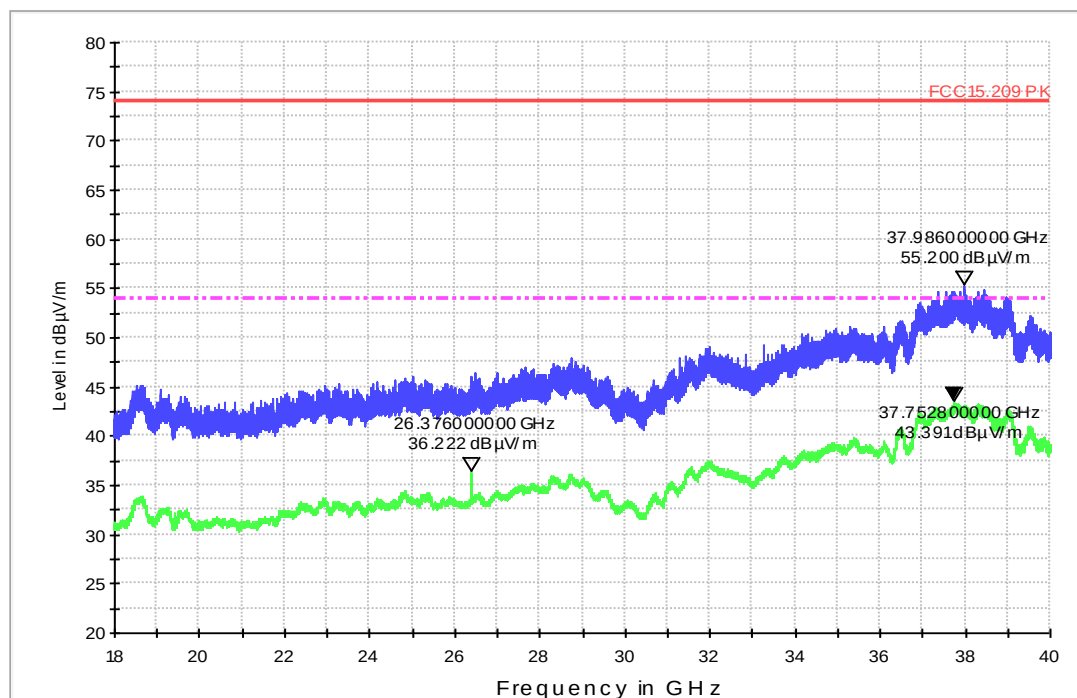
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
Operation mode:	WLAN 5GHz, TX mode continuous
Operator Name:	dpa
Comment:	Ch165, 20n-mode, 26MB

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:	-

EMI Scan_18_40GHz_Pre_fast_500us



4.4. Channel 151 (AC40-Mode, MCS4)

Diagram No.: 4.04c

Common Information

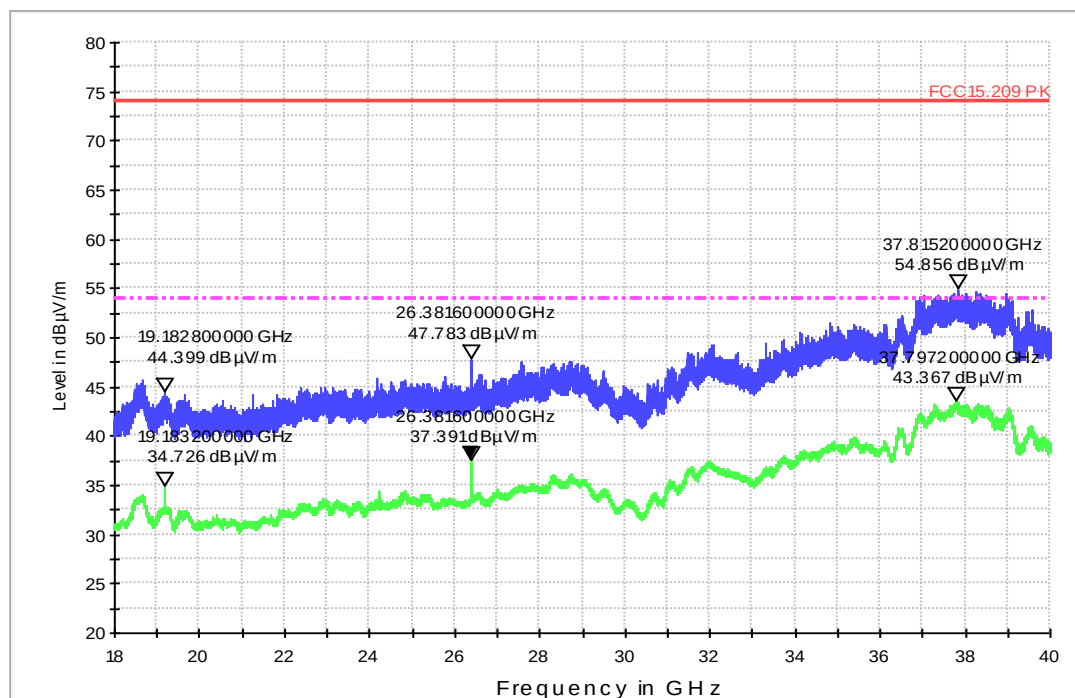
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
Operation mode:	WLAN 5GHz, TX mode continuous
Operator Name:	dpa
Comment:	Ch151, ac40-mode, MCS4

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:	-

EMI Scan_18_40GHz_Pre_fast_500us



4.5. Channel 159 (AC40-Mode, MCS6)

Diagram No.: 4.05c

Common Information

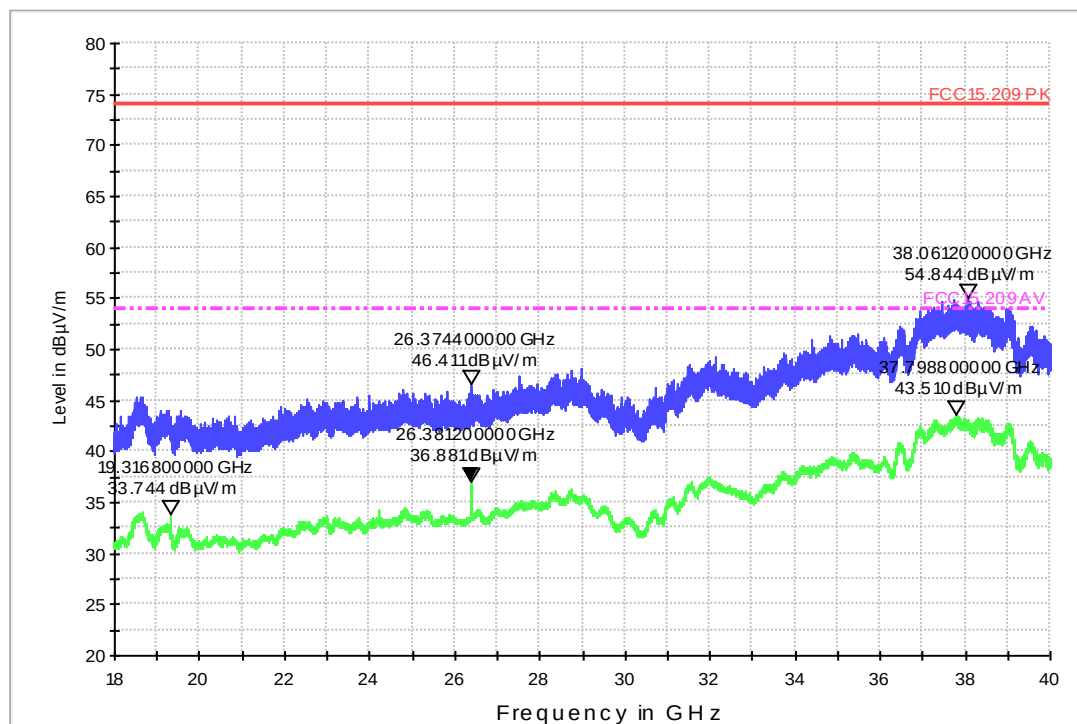
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
Operation mode:	Wlan 5GHz, TX mode continuous
Operator Name:	dpa
Comment:	Ch159, ac40-mode, MCS6

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:	-

EMI Scan_18_40GHz_Pre_fast_500us



4.6. Channel 155 (AC80-Mode, MCS0)

Diagram No.: 4.06c

Common Information

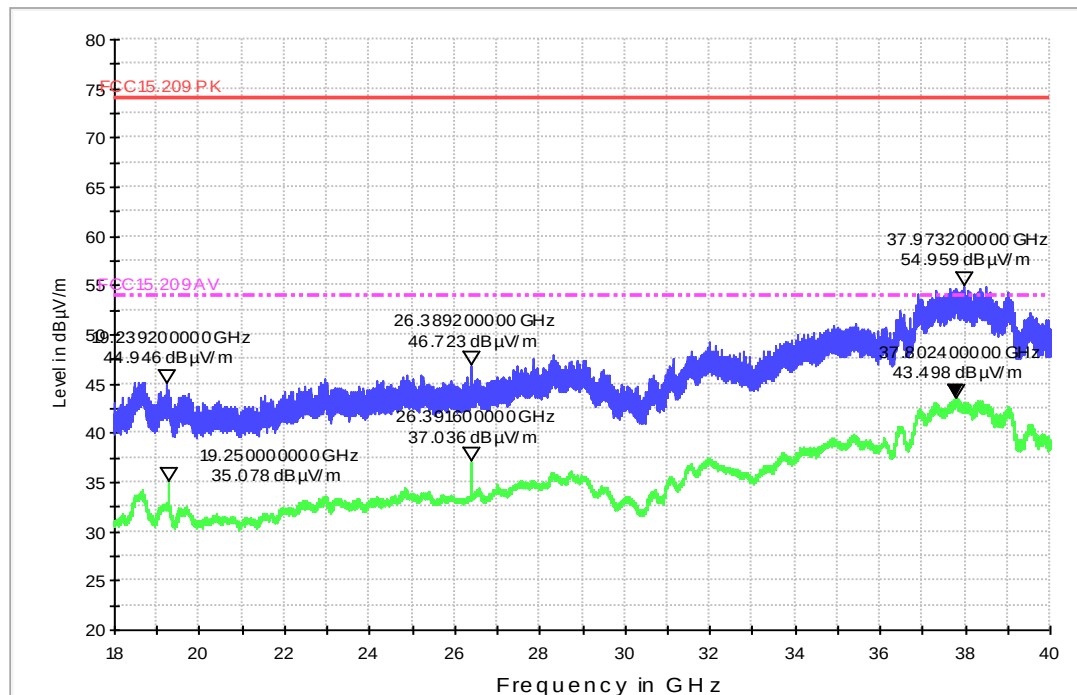
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
Operation mode:	WLAN 5GHz, TX mode continuous
Operator Name:	dpa
Comment:	Ch155, ac80-mode, MCS0

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:	-

EMI Scan_18_40GHz_Pre_fast_500us



5. Radiated band-edge measurements accord. §15.209 & §15.205

5.1. Channel 149 (a-Mode,48Mbit)

Diagram No.: 9.01_BE-Left_Ch149_48MBit

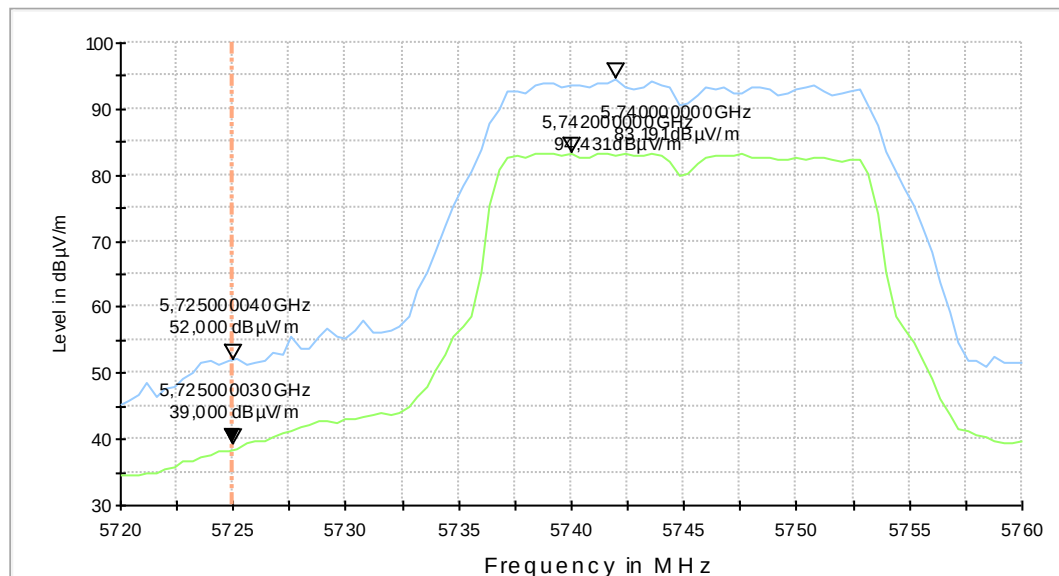
Common Information

Test Description:	Radiated Band-Edge emissions 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:	ABA
Comment:	Channel no. 149 a-Mode, 48MBit
Op. Mode:	WLAN 5GHz

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:	-

00431_FCC15247_5GHz_Band_SM1_KP1_WLAN_1ms



5.2. Channel 165 (n-Mode, 26Mbit)

Diagram No.: 9.03_BE_Ch165_26Mbit

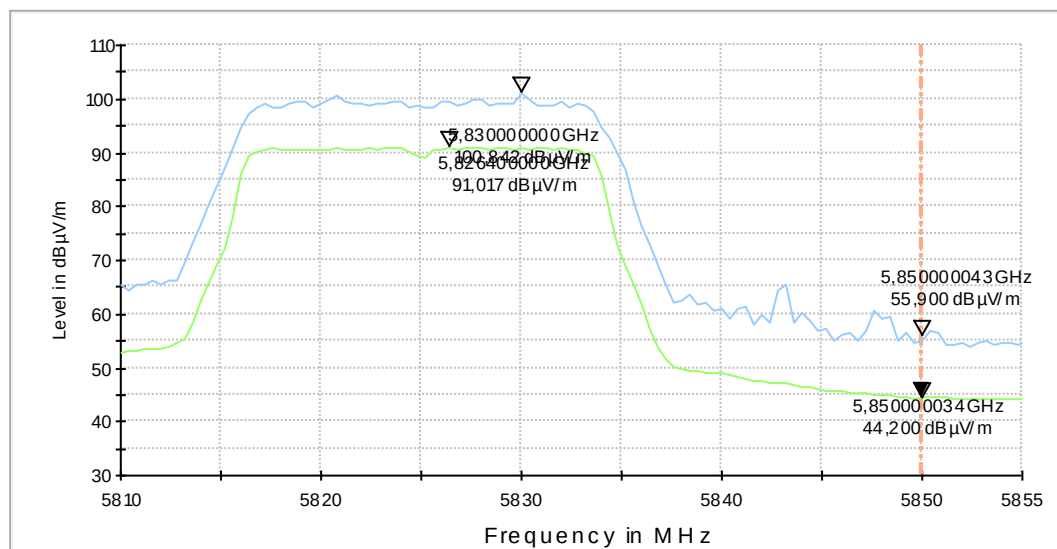
Common Information

Test Description:	Radiated Band-Edge emissions 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:	ABA
Comment:	Channel no. High=165
Op. Mode:	WLAN 5GHz

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:	-

00431_Sweep1_SM1_KP1_WLAN_FCC15247



5.3. Channel 151 (AC40-Mode, MCS4)

Diagram No.: 9.04_BE_Ch151_MCS4

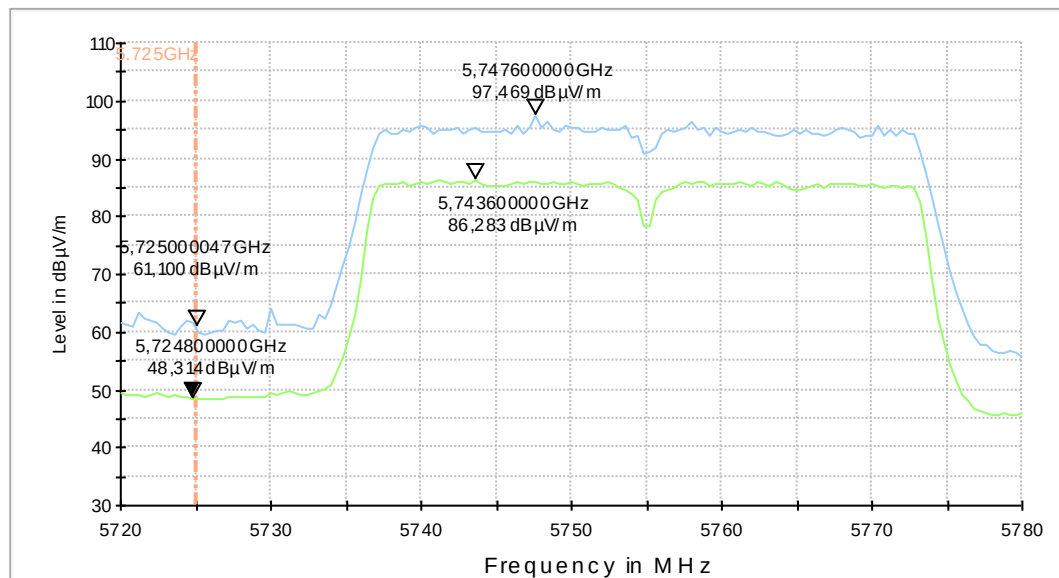
Common Information

Test Description:	Radiated Band-Edge emissions accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	ABA
Comment:	Channel no. low=151

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:	-

00431_Sweep1_SM1_KP1_W LAN_FCC15247



5.4. Channel 159 (AC40-Mode, MCS6)

Diagram No.: 9.05_BE_Ch159_MCS6

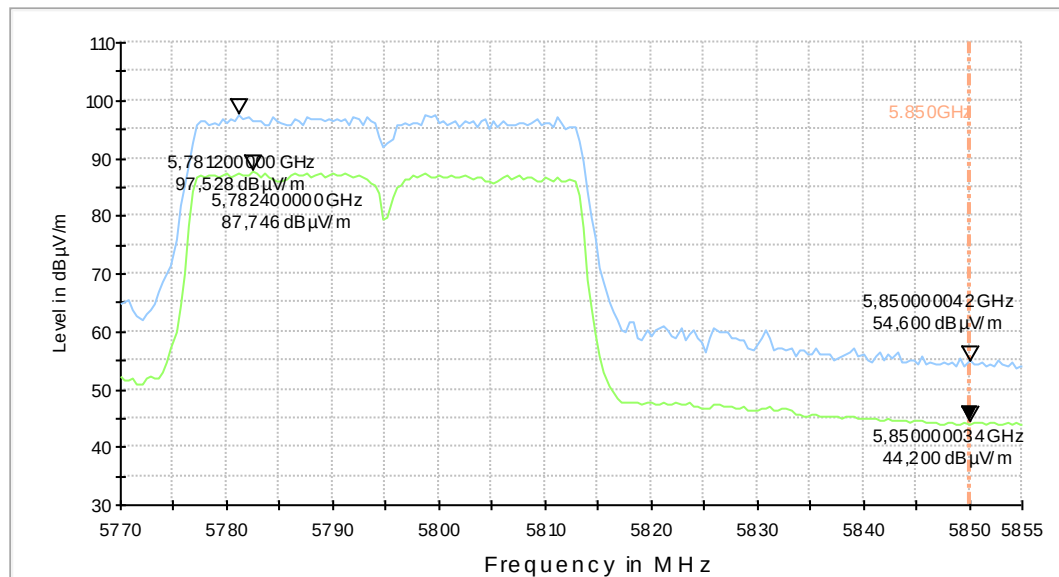
Common Information

Test Description:	Radiated Band-Edge emissions accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	ABA
Comment:	Channel no. high=159

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:	-

00431_Sweep1_SM1_KP1_W LAN_FCC15247



5.5. Channel 155 (AC80-Mode, MCS0)

Diagram No.: 9.06_BE_Ch155_MCS0

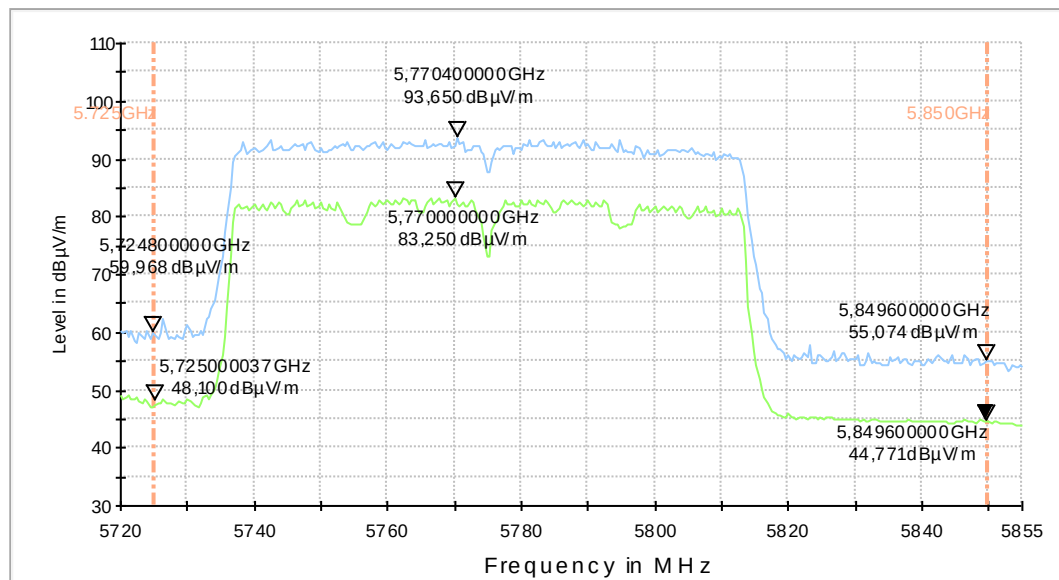
Common Information

Test Description:	Radiated Band-Edge emissions accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	ABA
Comment:	Channel no. middle=155

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:	-

00431_Sweep1_SM1_KP1_W LAN_FCC15247



6. Radiated EMI measurements accord. §15.109 class B

6.1. Frequency range 30MHz to 1000MHz

Diagram No. 3.07_RX_Mode_Ch157

Date: 17.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength 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
 Used filter: not used
 Test specification: FCC15.109, class B; RSS-Gen.: Issue 3

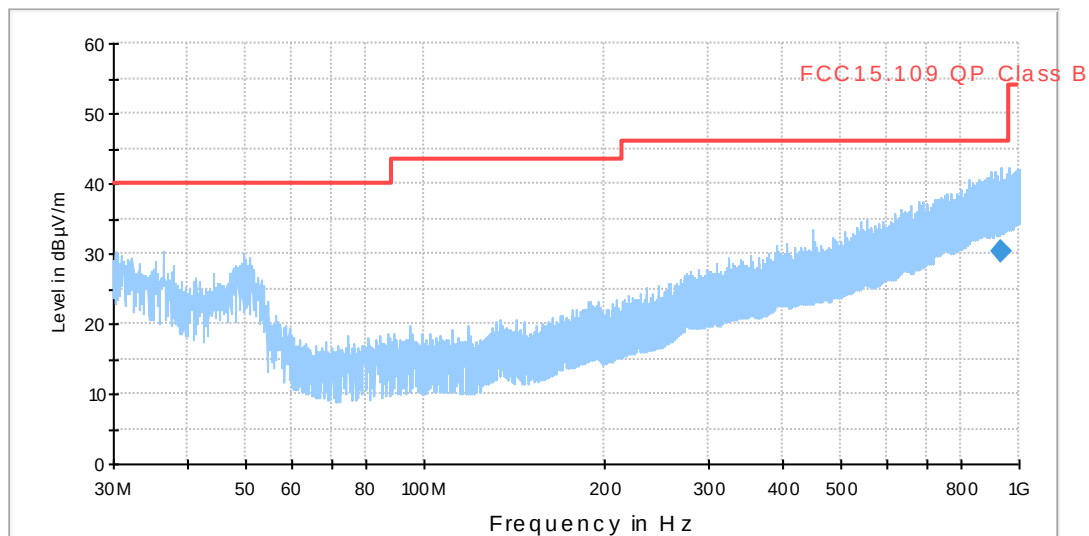
Operator: FTe
 Operating conditions: RX Mode, Ch157
 Measured sides of EUT: front, right, rear, left, top, under
 Power during tests: 110V 60Hz
 Comment 1: 120 V AC 60 Hz
 Comment 2:

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: 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)
934.210000	30.4	1000.0	120.000	105.0	H	7.0	90.0	27.0	15.6	46.0

6.2. Frequency range 1GHz to 18GHz

4.07_UN3_Ch157_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
Operating Mode:	WLAN 5G RX, Ch157
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:	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:	-

030442_FCC_Part15.109_Unint_Rad_Class_B_1G-20G_ESU40

