

Annex 4: Measurement diagrams to
TEST REPORT
 No.: 2-20828020a-14

FCC Regulations
 Part 22, Subpart H
 Part 24, Subpart E
 Part 27, Subpart C

for

Sony Mobile Communications

Smartphone FCC-ID: PY7PM-0740
 with
 Qi-Charging Phone Cover AI-0070

Laboratory Accreditation and Listings			
 DAkKS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION USA 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
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 CTIA Authorized Test Lab LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
<p align="center"> CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com </p>			

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1. Measurements diagrams

8.01_GSM850_Ch192

Common Information

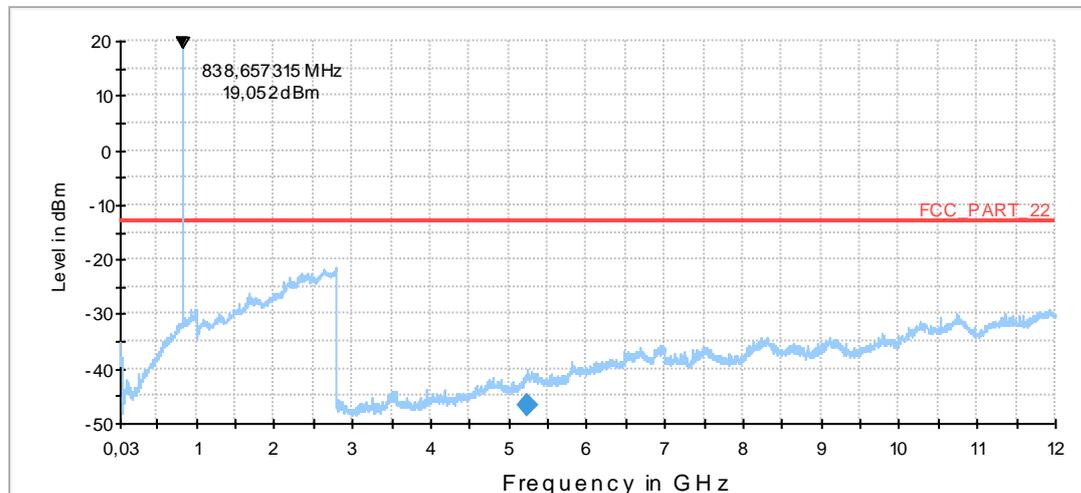
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test SW:	R&S EMC32, V8.53.0
Operating Mode:	GSM850 - MS allocated UL channel 192 (33dBm) and Qi charging
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 44%rH; Temperature: 20°C
Operator:	dpa

EUT Information

Manufacturer:	Sony
Model:	AI-0700
Type:	Qi Cover

EUT:	WCR12
HW version:	#24967
SW version:	-
SVN:	-
Config:	-
Serial number:	1415FF2E0000252
Connected Interfaces:	Mobile #24734, SW 17.1.A.0.70 ; USB-cable EC803 Type AI-0404, SN 134912A71205832 ; HS MH-410c, Type AG-1100, SN12311A150001F46 ; Qi Transmitter LPIC-L0001, HW Rev04, FW Rev1.1.0349.1, SN 070811000261
Power Supply:	120VAC/60Hz during test
Comments:	-

030401_FCC_Part22_GSM850_TX_all_channels_30M-12G



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5251.913828	-46.7	5000.0	1000.000	H	202.0	0.0	-88.5	33.7	-13.0

Diagram No. 8.02_GSM1900_Ch661

Common Information

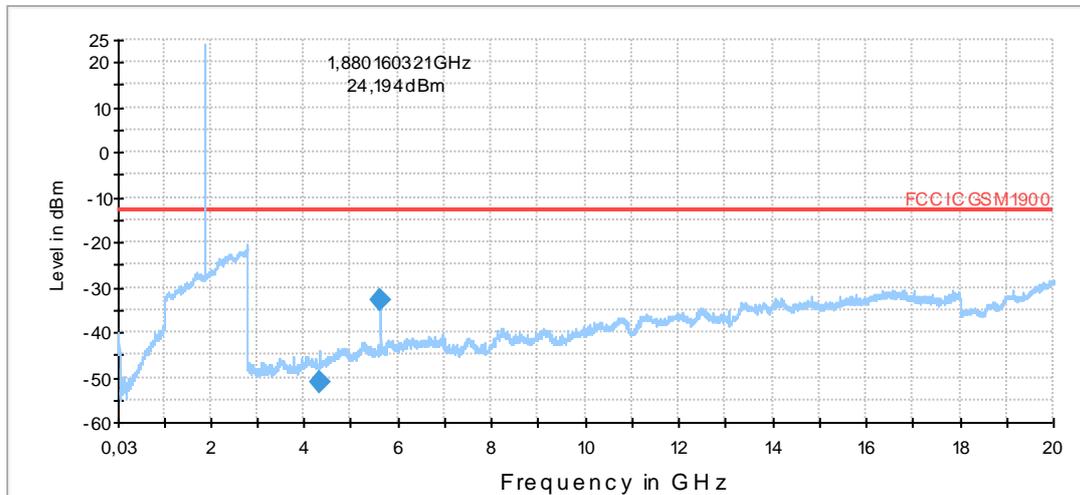
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Test SW:	R&S EMC32, V8.53.0
Comm. Link:	GSM1900, Voice
Operating Mode:	MS allocated channel 661(UL = 1880.0MHz) and Qi charging
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 44%rH; Temperature: 20°C
Operator:	FTE

EUT Information

Manufacturer:	Sony
Model:	AI-0700
Type:	Qi Cover

EUT:	WCR12
HW version:	#24967
SW version:	-
SVN:	-
Config:	-
Serial number:	1415FF2E0000252
Connected Interfaces:	Mobile #24734, SW 17.1.A.0.70 ; USB-cable EC803 Type AI-0404, SN 134912A71205832 ; HS MH-410c, Type AG-1100, SN12311A150001F46 ; Qi Transmitter LPIC-L0001, HW Rev04, FW Rev1.1.0349.1, SN 070811000261
Power Supply:	120VAC/60Hz during test
Comments:	-

030404_FCC_Part24_GSM1900_TX_all_channels_30M-20G



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
4346.087175	-51.2	1000.0	1000.000	H	13.0	0.0	-93.3	38.2	-13.0
5640.195391	-32.8	1000.0	1000.000	H	-35.0	90.0	-89.7	19.8	-13.0

Diagram No.: 8.03_UMTS_FDD_IV_Ch1450

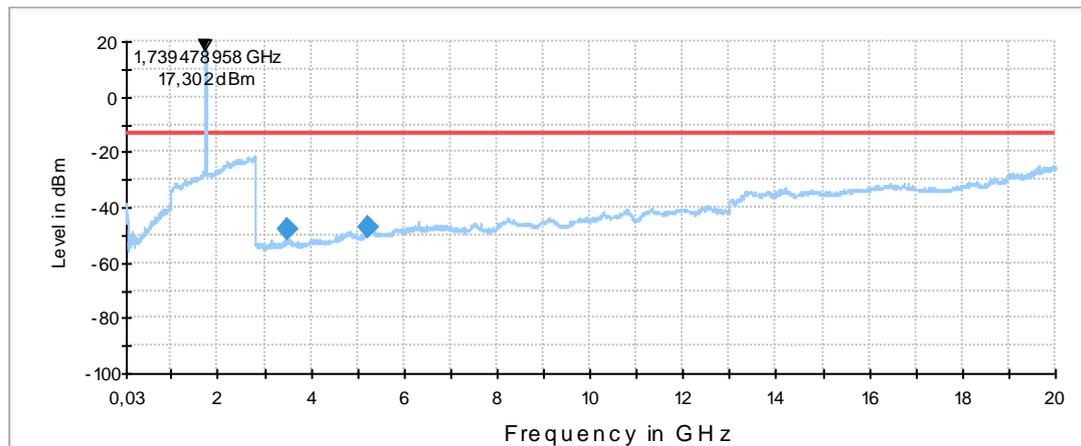
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 27.53(g)
 Test SW: R&S EMC32, V8.53.0
 Antenna polarisation: horizontal/vertical
 Operation mode: TX, continuous UMTS FDD IV and Qi charging
 Operator Name: FTe
 Comment: Channel no. 1450; Uplink at 1,740 GHz

EUT Information

Manufacturer: Sony
 Model: AI-0700
 Type: Qi Cover

EUT: WCR12
 HW version: #24967
 SW version: -
 SVN: -
 Config: -
 Serial number: 1415FF2E0000252
 Connected Interfaces: Mobile #24734, SW 17.1.A.0.70 ; USB-cable EC803 Type AI-0404, SN 134912A71205832 ; HS MH-410c, Type AG-1100, SN12311A150001F46 ; Qi Transmitter LPIC-L0001, HW Rev04, FW Rev1.1.0349.1, SN 070811000261
 Power Supply: 120VAC/60Hz during test
 Comments: -



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
3478.256513	-48.3	10000.0	1000.000	V	276.0	0.0	-93.9	35.3	-13.0
5220.941883	-47.5	10000.0	1000.000	V	258.0	0.0	-88.8	34.5	-13.0