

Annex 1: Measurement diagrams to Test Report 19-1-0200601T10a-C1-A1



Number of pages:	10	Date of Report:	2021-Jan-27
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	Eppendorf AG
Product: Model:	Touch server to handle electronic pipettes of Eppendorf Xplorer® family via WiFi VisioNize® pipette manager		
FCC ID:	2AXZD1004000001	IC:	26635-1004000001
Testing has been carried out in accordance with:	Title 47 CFR, Chapter I FCC Regulations, Subchapter A §15.247 (DTS) ISED-Regulations RSS-Gen, Issue 5 RSS 247, Issue 2 Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		

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1 Measurement diagrams

2.01a_g-mode_ch06

Common Information

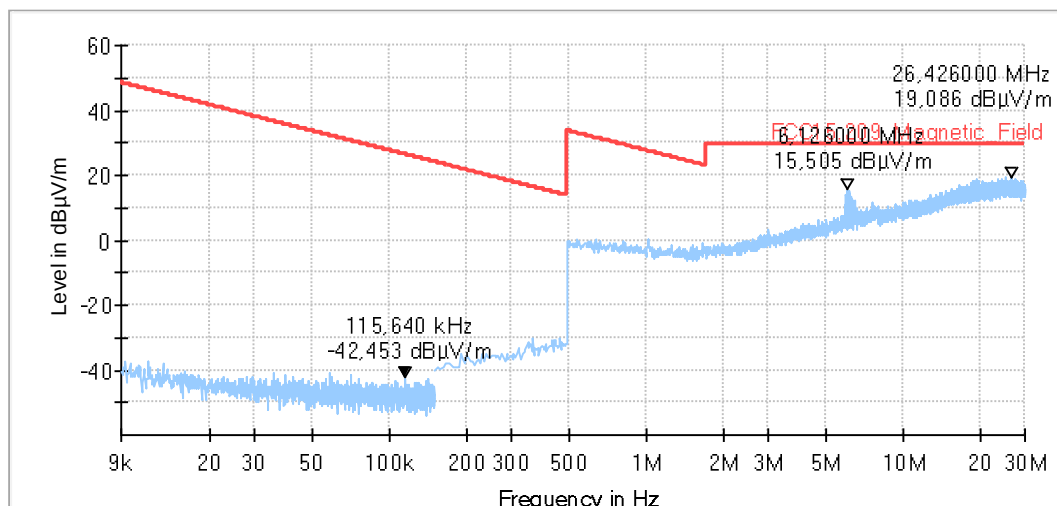
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see 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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator:	npe
Operating Mode:	g-mode 6MBit ch06
Power during tests:	120V/60Hz
Comment 1:	-
Comment 2:	-
Environmental Conditions:	Humidity : 20%rH; Temperature: 37°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-02006S26_C01
Manufacturer:	Eppendorf AG

Full Spectrum



2.01b_g-mode_ch06

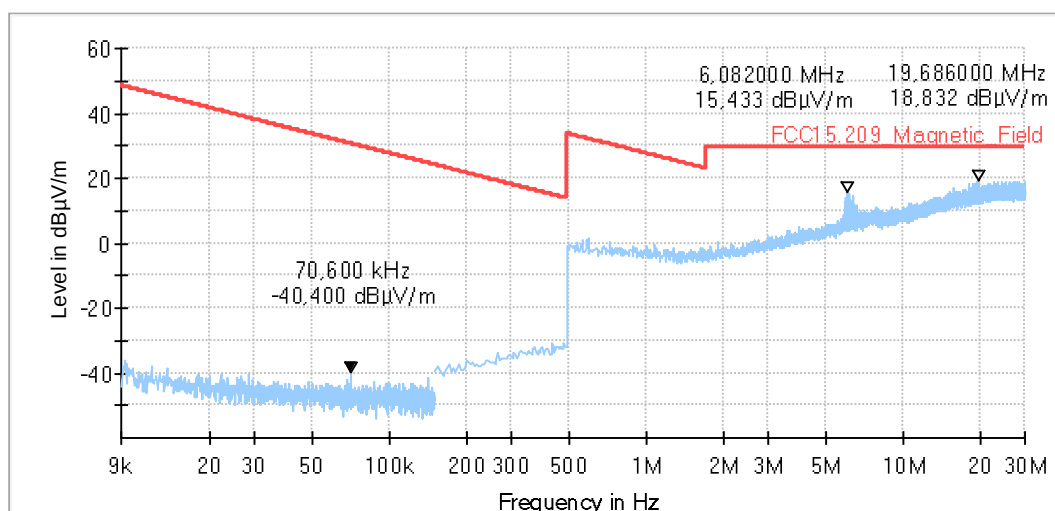
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	npe
Operating Mode:	g-mode 6MBit ch06
Power during tests:	120V/60Hz
Comment 1:	-
Comment 2:	-
Environmental Conditions:	Humidity : 37%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	PassedComment:

EUT Information

PMT number:	19-1-02006S26_C01
Manufacturer:	Eppendorf AG

Full Spectrum



3.01a_g-mode_ch06

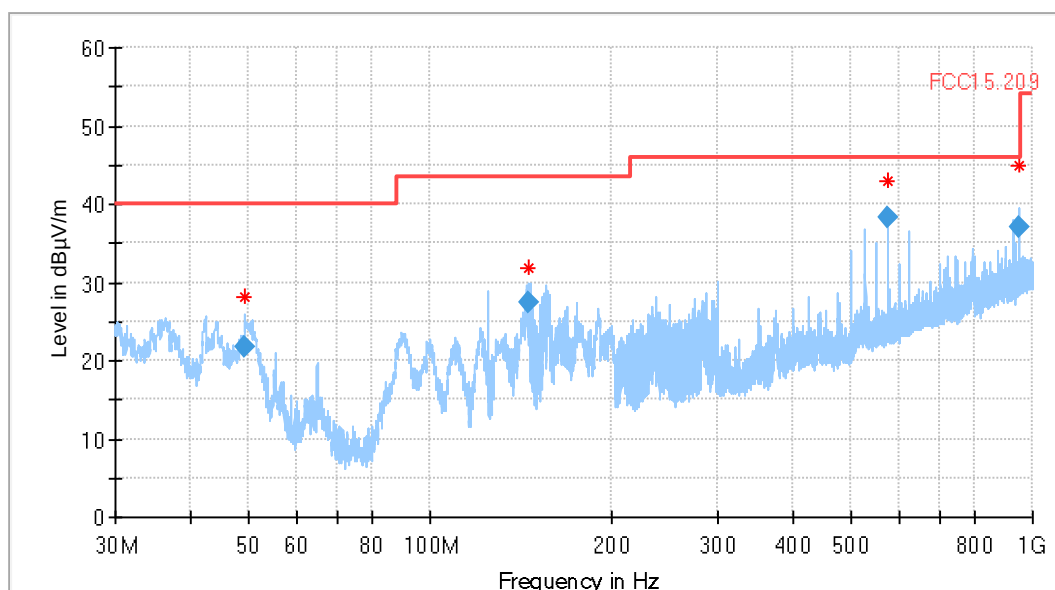
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity : 59%rH; Temperature: 21°C
Operator Name:	TFa
Operating Mode:	g-mode 6MBit ch06
Power supply:	120 V AC 60Hz
Comment:	Channel no. low
Verdict:	Passed

EUT Information

PMT number:	19-1-02006S29_C01
Manufacturer:	Eppendorf AG

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
49.098000	21.83	40.00	18.17	120.000	109.0	V	120.0	13.2	14:32:24 - 13.01.2021
145.426000	27.37	43.50	16.13	120.000	117.0	V	123.0	8.6	14:27:23 - 13.01.2021
575.040000	38.37	46.00	7.63	120.000	109.0	V	10.0	21.7	14:22:33 - 13.01.2021
950.054000	37.10	46.00	8.90	120.000	105.0	V	189.0	27.4	14:37:16 - 13.01.2021

3.01b_g-mode_ch06

Common Information

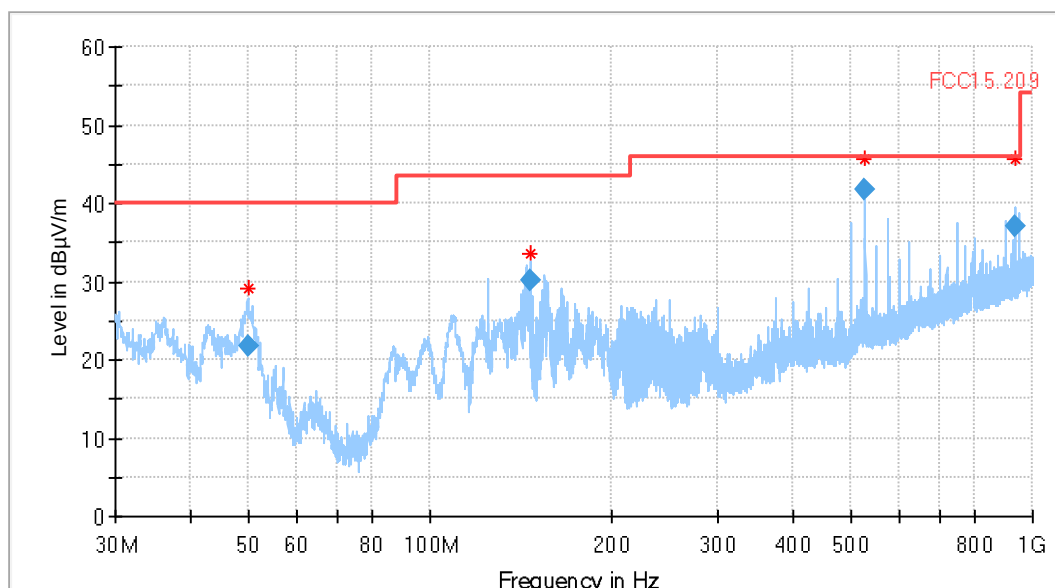
Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity : 45%rH; Temperature: 20°C
 Operator Name: TFa
 Operating Mode: g-mode | 6MBit | ch06
 Power supply: 120 V AC 60Hz
 Comment: Channel no. low
 Verdict: Passed

EUT Information

PMT number: 19-1-02006S29_C01
 Manufacturer: Eppendorf AG

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
49.750000	21.71	40.00	18.29	120.000	160.0	V	171.0	13.0	15:06:30 - 13.01.2021
146.624000	30.17	43.50	13.33	120.000	105.0	V	119.0	8.6	15:01:45 - 13.01.2021
525.026000	41.68	46.00	4.32	120.000	105.0	V	20.0	20.6	14:57:01 - 13.01.2021
933.398000	36.96	46.00	9.04	120.000	209.0	V	326.0	26.9	15:10:58 - 13.01.2021

4.01a_g-mode_ch06

Common Information

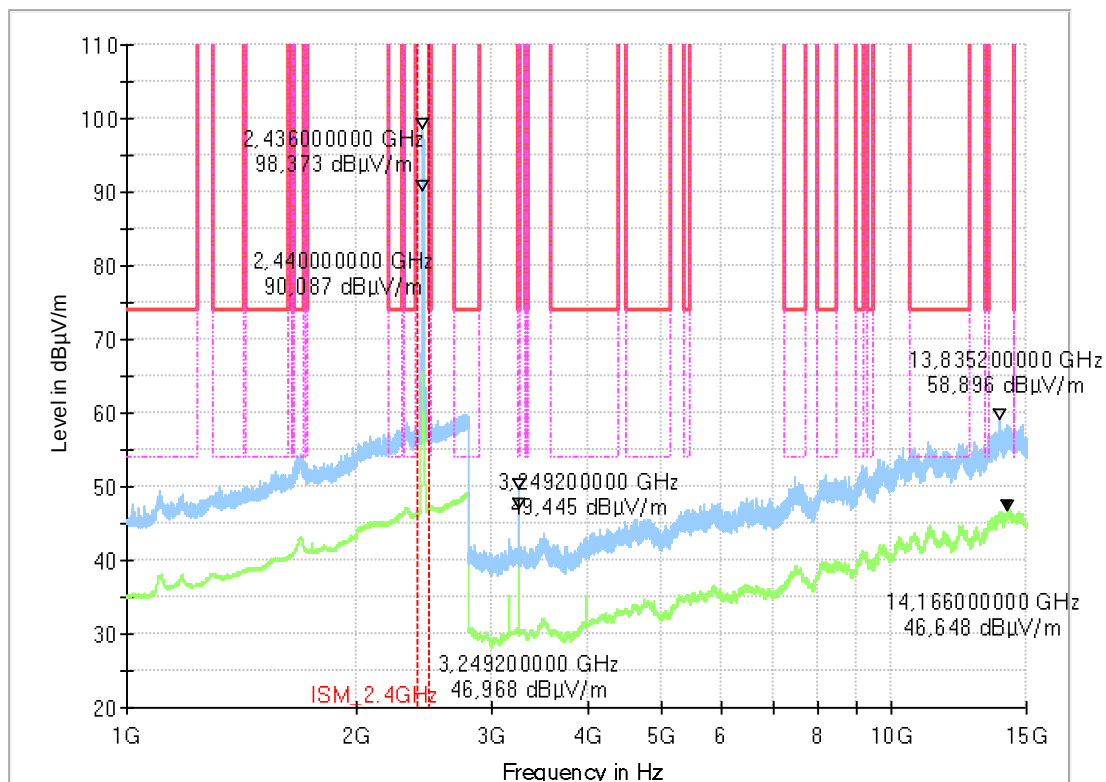
Test Description: Radiated Field Strength Emissions Emissions in 3m distance
Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation: horizontal/vertical

Operating Mode: g-mode | 6Mbit | ch6
Operator: npe
Comment: -
Comment2: -
EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 19-1-02006S29_C01
Manufacturer: Eppendorf AG

Full Spectrum



4.01b_g-mode_ch06

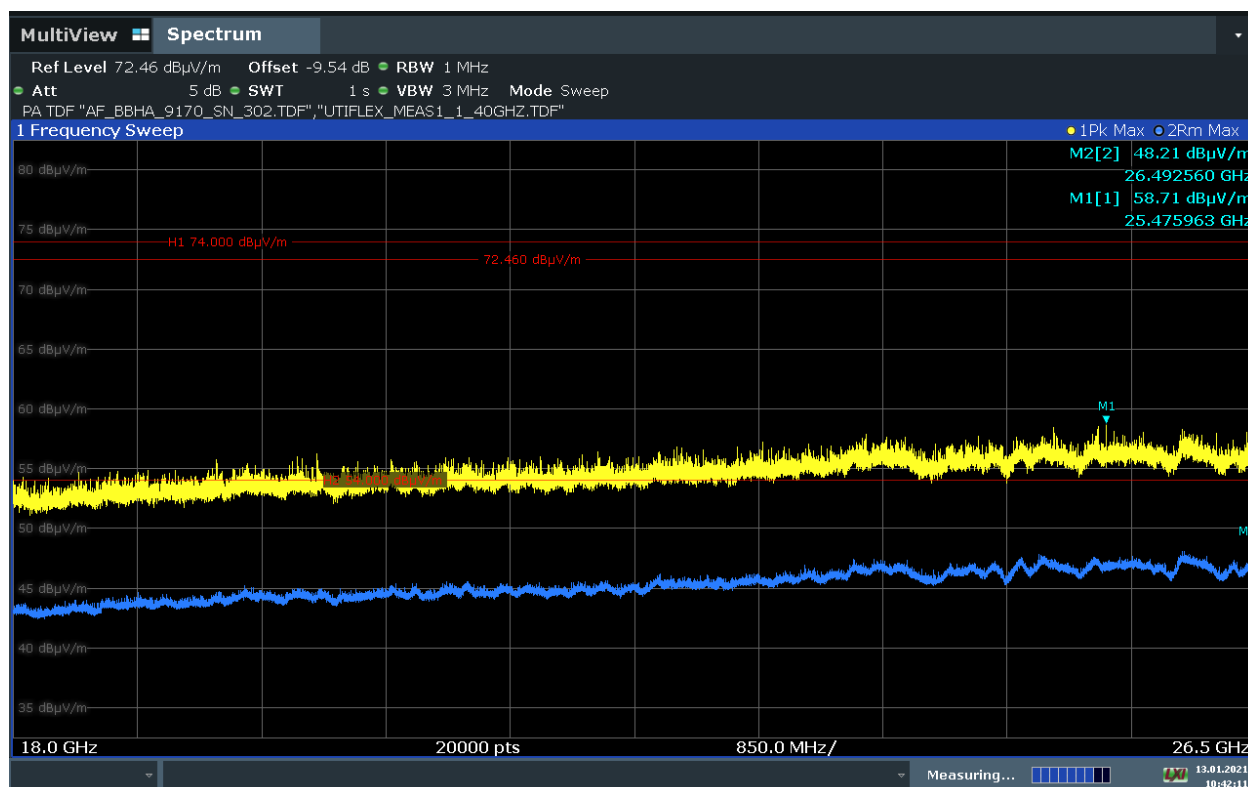
Common Information

Test Description: Radiated Field Strength Emissions Emissions in 3m distance
Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation: horizontal/vertical

Operating Mode: g-mode | 6MBit | ch6
Operator: npe
Comment: -
Comment2: -
EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 19-1-02006S29_C01
Manufacturer: Eppendorf AG



10:42:11 13.01.2021

9.01_g-mode_ch01

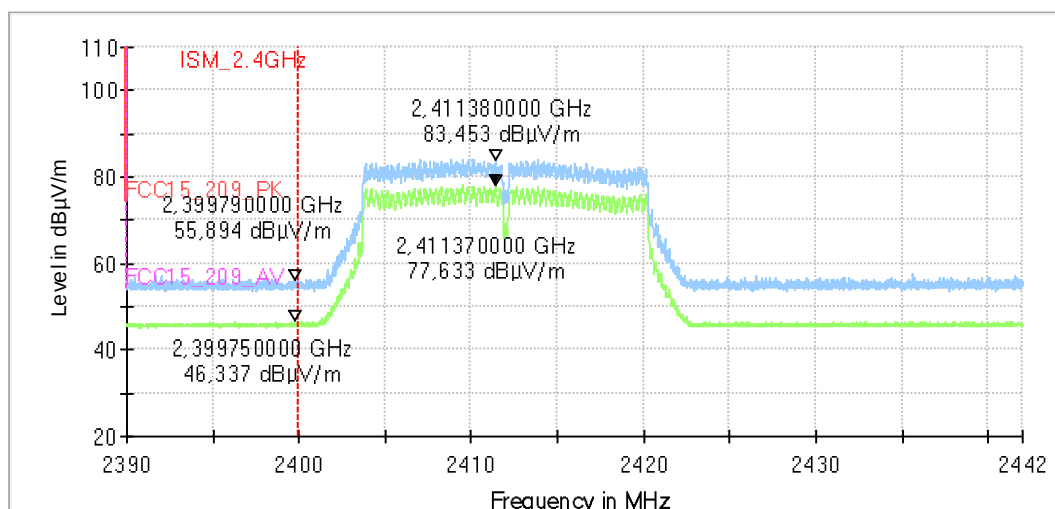
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operating Mode:	g-mode 6Mbit ch1
Operator:	npe
Comment:	-
Comment2:	-
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-02006S29_C01
Manufacturer:	Eppendorf AG

Full Spectrum



9.02_g-mode_ch11

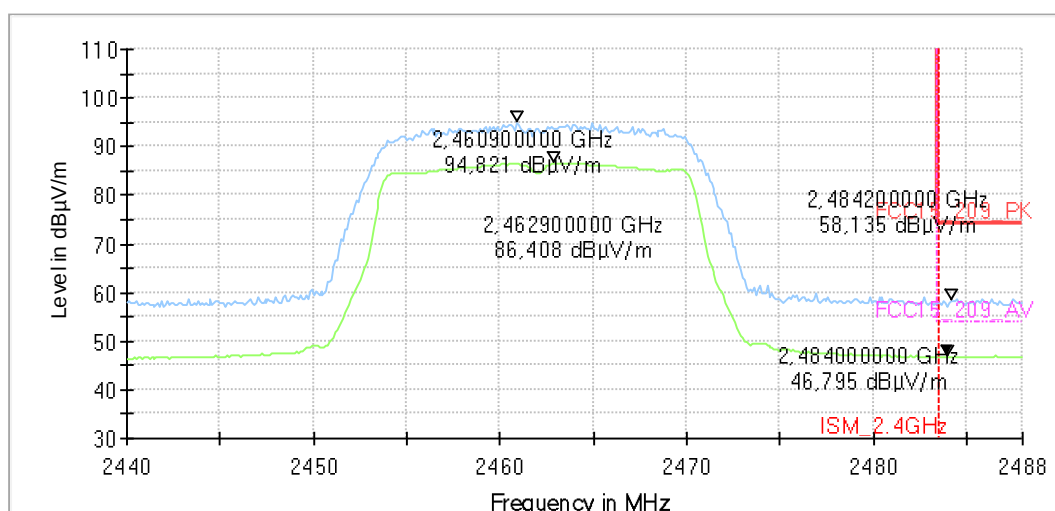
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operating Mode:	g-mode 6Mbit ch11
Operator:	npe
Comment:	-
Comment2:	-
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-02006S29_C01
Manufacturer:	Eppendorf AG

Full Spectrum



End Of Annex 1