

Annex 1: Measurement diagrams 19-1-0200605T02a-A1

Number of pages:	7	Date of Report:	2021-May-03
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
Test Object / Tested Device(s):	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:	FCC Regulations: Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart B: §15.107, §15.109 (Class B limits) ISED Regulations: ICES-003, Issue 6 (2016+Update 2019)		



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1 Measurement diagrams

1.01

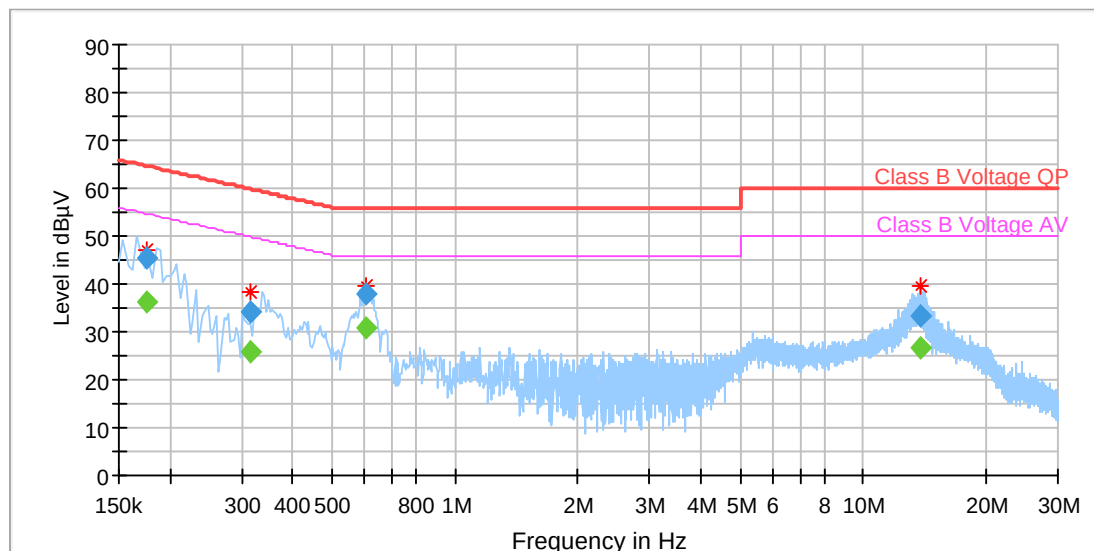
Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Standard:	FCC 15.107, FCC 15.207
Operating Mode:	Test mode
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity : 40% rH; Temperature: 23 °C
Operator:	HLA
Verdict:	Passed

EUT Information

PMT number:	20-1-02006S32_C01
Manufacturer:	Eppendorf AG

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.176563	---	36.18	54.65	18.47	1000.0	9.000	L1	GND	0.1
0.176563	45.41	---	64.65	19.24	1000.0	9.000	L1	GND	0.1
0.315000	---	25.67	49.84	24.17	1000.0	9.000	L1	GND	0.1
0.315000	34.16	---	59.84	25.68	1000.0	9.000	L1	GND	0.1
0.603438	---	30.89	46.00	15.11	1000.0	9.000	L1	GND	0.2
0.603438	37.92	---	56.00	18.08	1000.0	9.000	L1	GND	0.2
13.759688	---	26.68	50.00	23.32	1000.0	9.000	N	GND	0.6
13.759688	33.41	---	60.00	26.59	1000.0	9.000	N	GND	0.6

3.01_Laying

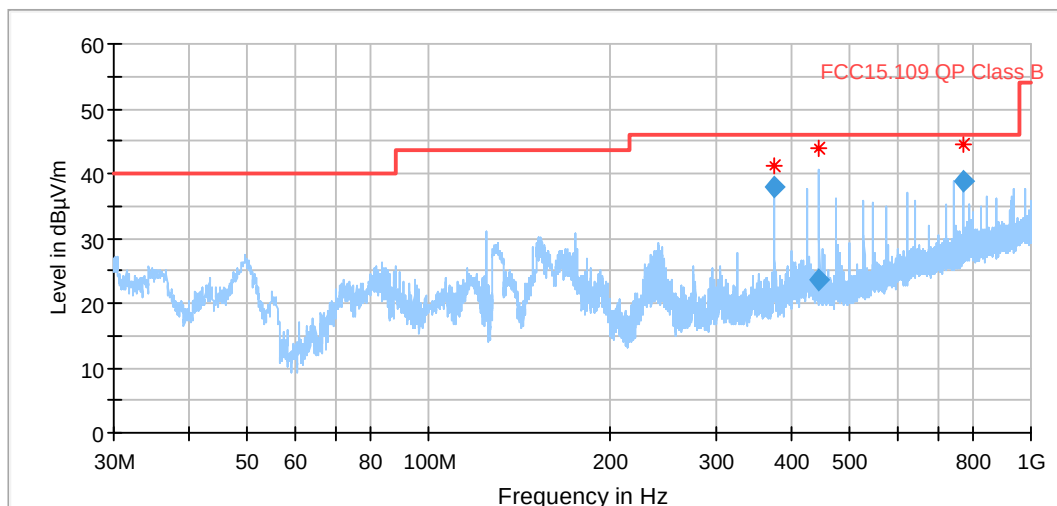
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operating Mode:	USB Connection beetwen Pipette and Pipette Manager + LAN connectin active
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	JRi
Verdict:	Passed

EUT Information

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

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB/m)
374.996000	37.98	46.00	8.02	1000.0	120.000	104.0	H	106.0	17.0
445.508000	23.50	46.00	22.50	1000.0	120.000	105.0	V	8.0	19.4
774.992000	38.91	46.00	7.09	1000.0	120.000	112.0	H	91.0	24.8

3.02_Standing

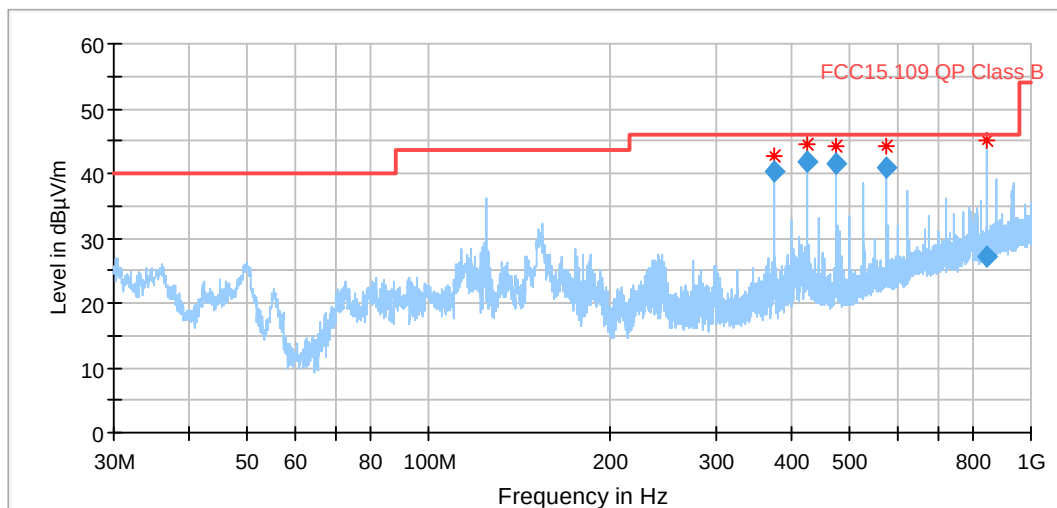
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.109 Unintentional Radiator
 Antenna polarisation: horizontal/vertical
 Operating Mode: USB Connection between Pipette and Pipette Manager + LAN connectin active
 Environmental Conditions: Humidity : 40% rH; Temperature: 20 °C
 Operator: JRi
 Verdict: Passed

EUT Information

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

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height (dBm)	Pol	Azimuth (°)	Corr. (dB/m)
375.016000	40.28	46.00	5.72	1000.0	120.000	161.0	V	0.0	17.0
425.014000	41.89	46.00	4.11	1000.0	120.000	121.0	V	0.0	19.2
475.012000	41.36	46.00	4.64	1000.0	120.000	109.0	V	23.0	19.2
575.002000	40.84	46.00	5.16	1000.0	120.000	105.0	V	353.0	21.7
841.556000	27.21	46.00	18.79	1000.0	120.000	178.0	V	355.0	25.9

4.01

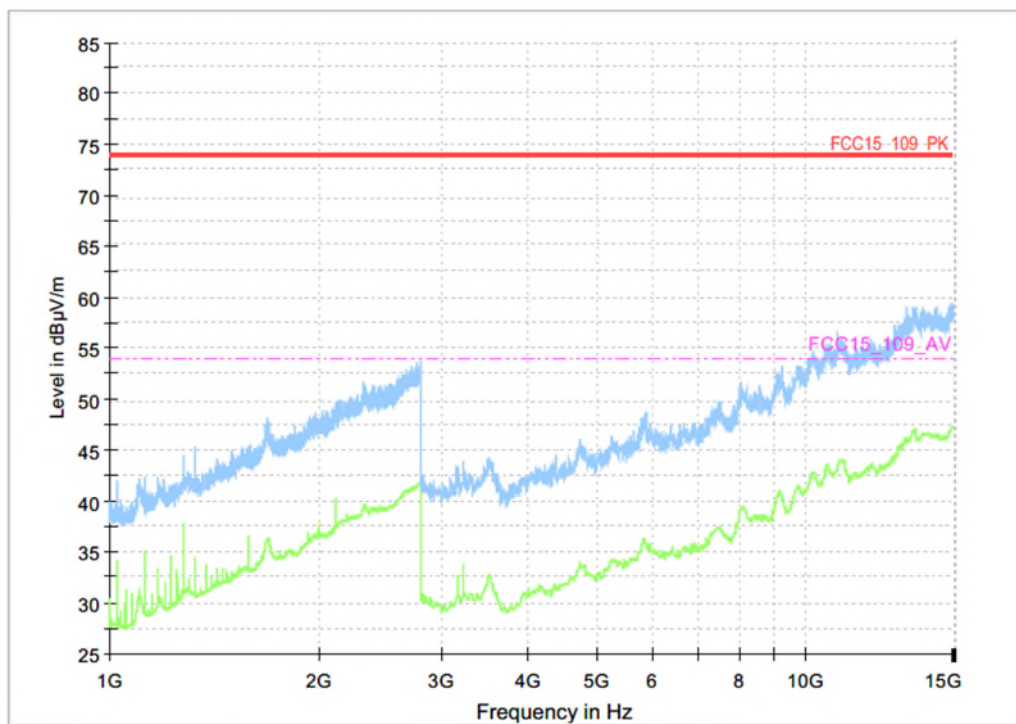
Common Information

Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	Test Mode
Equipment Class:	Class B
Environmental Conditions:	Humidity : 40% rH; Temperature: 19 °C
Operator:	TFA
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

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

Full Spectrum



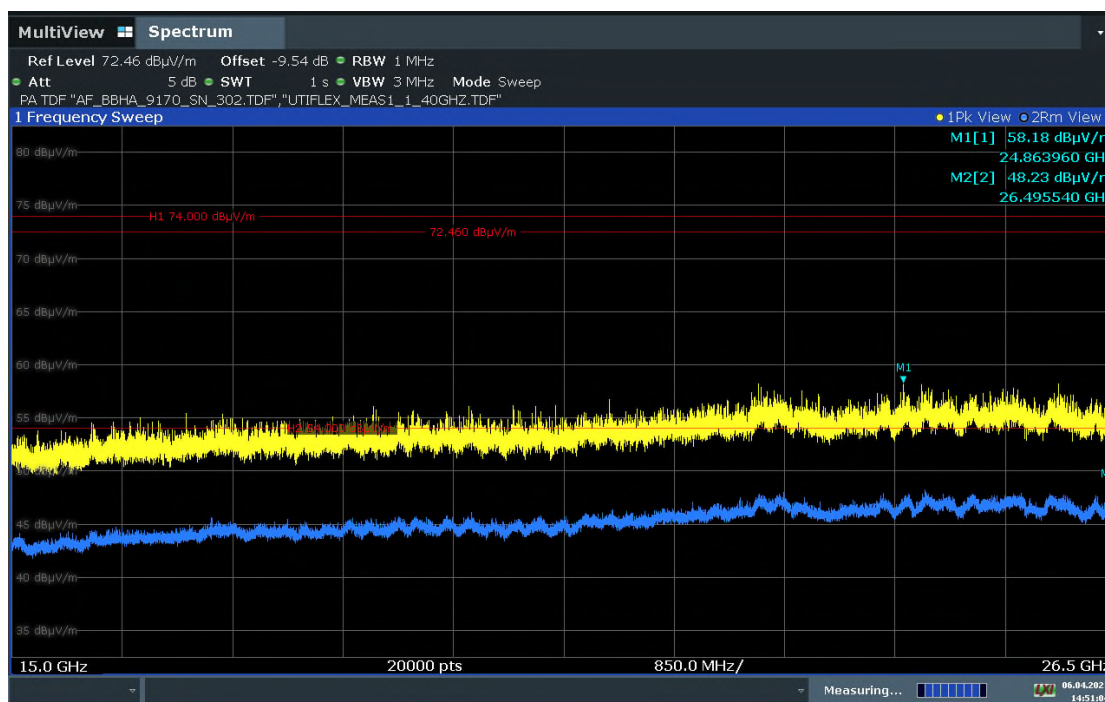
4.02

Common Information

Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	Test Mode
Equipment Class:	Class B
Environmental Conditions:	Humidity : 40% rH; Temperature: 19 °C
Operator:	TFA
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	19-1-02006S26_C01
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End Of Annex 1