

Annex 1: Measurement diagrams 23-1-0078002T001a-A1

Number of pages:	8	Date of Report:	2023-Nov-29
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:	Eliko Technoloogia Arenduskeskus OÜ
Test Object / Tested Device(s):	Positioning device ELIKO TAG		
Contains FCC ID:	2AF2I-TAG	IC:	27124-TAG
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR, Chapter I, Subchapter A, Part 15 Subpart B Unintentional Radiators § 15.107 Conducted limits § 15.109 Radiated emission limits ISED-Regulations Radio Standards Specification RSS-Gen, Issue 5 General Requirements for Compliance of Radio Apparatus ICES-003, Issue 7 Information Technology Equipment (including Digital Apparatus)		



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1 Measurement diagrams

1.01_Tag

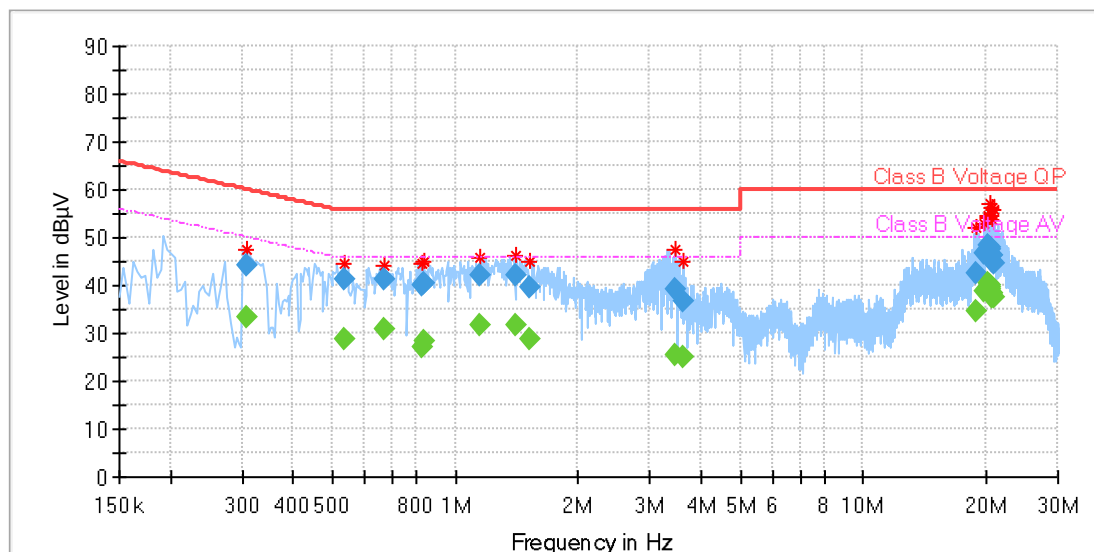
Common Information

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:	op mode 1
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 41% rH; Temperature: 21 °C
Operator:	HLA
Comments:	
EUT Setup:	
Verdict:	Passed

EUT Information

PMT number:	20-1-01949S33_C01
Manufacturer:	Eliko Technoloogia Arenduskeskus OÜ

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.309844	---	33.49	49.97	16.48	1000.0	9.000	L1	GND	0.2
0.309844	44.17	---	59.97	15.80	1000.0	9.000	L1	GND	0.2
0.535781	---	28.82	46.00	17.18	1000.0	9.000	L1	GND	0.1
0.535781	41.44	---	56.00	14.56	1000.0	9.000	L1	GND	0.1
0.671406	---	30.87	46.00	15.13	1000.0	9.000	L1	GND	0.3
0.671406	41.16	---	56.00	14.84	1000.0	9.000	L1	GND	0.3
0.826563	---	26.90	46.00	19.10	1000.0	9.000	L1	GND	0.2
0.826563	40.11	---	56.00	15.89	1000.0	9.000	L1	GND	0.2
0.838281	---	28.50	46.00	17.50	1000.0	9.000	L1	GND	0.2
0.838281	40.54	---	56.00	15.46	1000.0	9.000	L1	GND	0.2
1.154219	---	31.76	46.00	14.24	1000.0	9.000	L1	GND	0.3

1.154219	41.88	---	56.00	14.12	1000.0	9.000	L1	GND	0.3
1.409219	---	31.83	46.00	14.17	1000.0	9.000	L1	GND	0.3
1.409219	41.97	---	56.00	14.03	1000.0	9.000	L1	GND	0.3
1.529844	---	28.94	46.00	17.06	1000.0	9.000	N	GND	0.3
1.529844	39.68	---	56.00	16.32	1000.0	9.000	N	GND	0.3
3.467813	---	25.56	46.00	20.44	1000.0	9.000	N	GND	0.3
3.467813	39.25	---	56.00	16.75	1000.0	9.000	N	GND	0.3
3.617344	36.61	---	56.00	19.39	1000.0	9.000	N	GND	0.2
3.617344	---	25.10	46.00	20.90	1000.0	9.000	N	GND	0.2
18.976719	42.51	---	60.00	17.49	1000.0	9.000	N	GND	0.8
18.976719	---	34.39	50.00	15.61	1000.0	9.000	N	GND	0.8
19.826719	46.53	---	60.00	13.47	1000.0	9.000	N	GND	0.9
19.826719	---	38.64	50.00	11.36	1000.0	9.000	N	GND	0.9
20.142969	---	38.94	50.00	11.06	1000.0	9.000	L1	GND	0.8
20.142969	46.98	---	60.00	13.02	1000.0	9.000	L1	GND	0.8
20.291563	48.40	---	60.00	11.60	1000.0	9.000	N	GND	0.9
20.291563	---	40.60	50.00	9.40	1000.0	9.000	N	GND	0.9
20.414219	47.78	---	60.00	12.22	1000.0	9.000	N	GND	0.9
20.414219	---	40.07	50.00	9.93	1000.0	9.000	N	GND	0.9
20.475156	47.31	---	60.00	12.69	1000.0	9.000	N	GND	0.9
20.475156	---	39.43	50.00	10.57	1000.0	9.000	N	GND	0.9
20.556563	46.83	---	60.00	13.17	1000.0	9.000	N	GND	0.9
20.556563	---	39.06	50.00	10.94	1000.0	9.000	N	GND	0.9
20.664219	46.08	---	60.00	13.92	1000.0	9.000	N	GND	0.9
20.664219	---	38.26	50.00	11.74	1000.0	9.000	N	GND	0.9
20.762969	45.07	---	60.00	14.93	1000.0	9.000	N	GND	0.9
20.762969	---	37.58	50.00	12.42	1000.0	9.000	N	GND	0.9
20.786406	46.06	---	60.00	13.94	1000.0	9.000	L1	GND	0.8
20.786406	---	38.14	50.00	11.86	1000.0	9.000	L1	GND	0.8
20.825469	---	37.39	50.00	12.61	1000.0	9.000	N	GND	0.9
20.825469	44.47	---	60.00	15.53	1000.0	9.000	N	GND	0.9

3.01_Laying

Common Information

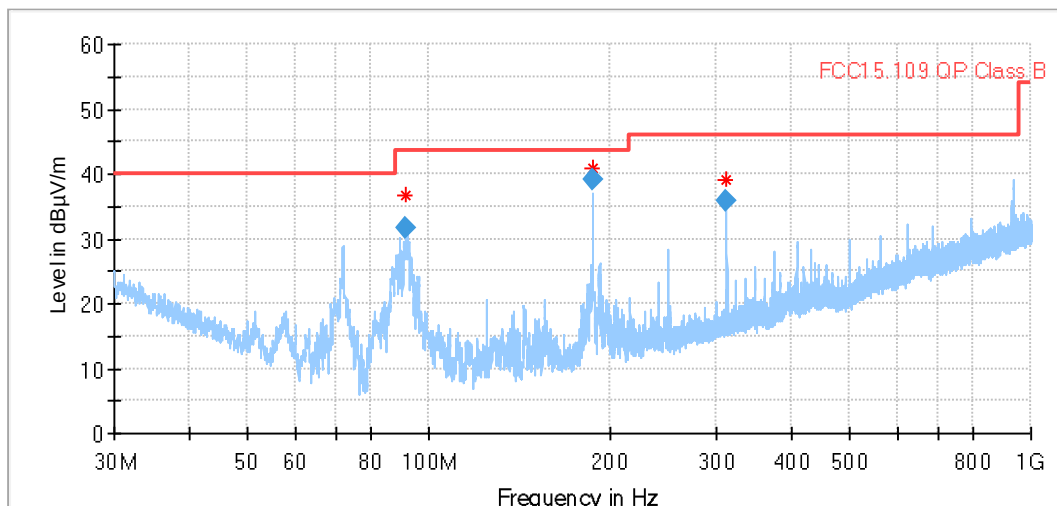
Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.109 Unintentional Radiator
 Antenna polarisation: horizontal/vertical

 Operating Mode: op 1
 Environmental Conditions: Humidity : 50% rH; Temperature: 21 °C
 Operator: GHu
 Verdict: Passed

EUT Information

PMT number: 20-1-01949S33_C01
 Manufacturer: Eliko Technoloogia Arenduskeskus OÜ

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
91.593000	31.49	43.50	12.01	1000.0	120.000	364.0	H	12.0	8.2
187.499000	39.24	43.50	4.26	1000.0	120.000	105.0	V	183.0	11.3
312.505000	35.82	46.00	10.18	1000.0	120.000	187.0	H	341.0	15.6

3.02_Standing

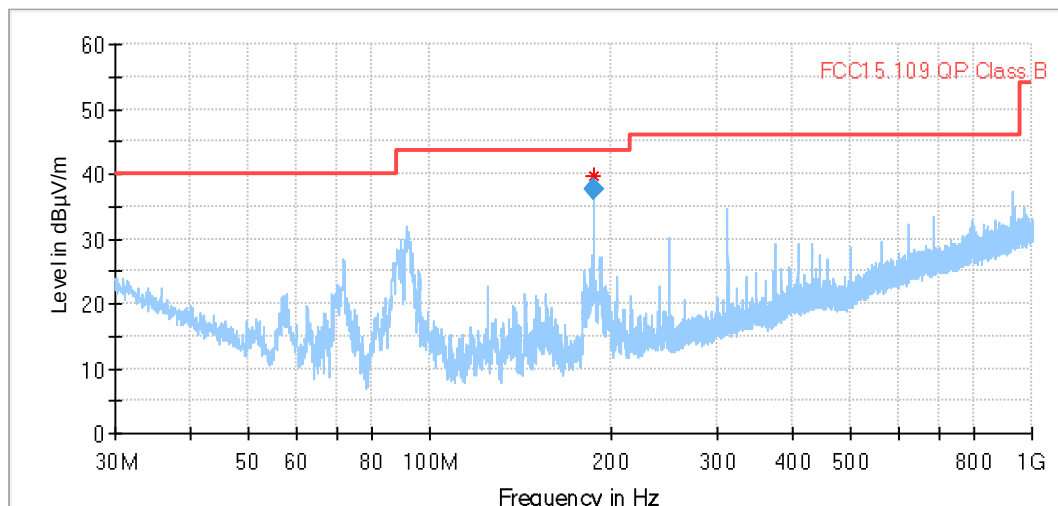
Common Information

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:	op 1
Environmental Conditions:	Humidity : 50% rH; Temperature: 21 °C
Operator:	HLA/JRi
Verdict:	Passed

EUT Information

PMT number:	20-1-01949S33_C01
Manufacturer:	Eliko Technoloogia Arenduskeskus OÜ

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
187.499000	37.69	43.50	5.81	1000.0	120.000	105.0	V	189.0	11.3

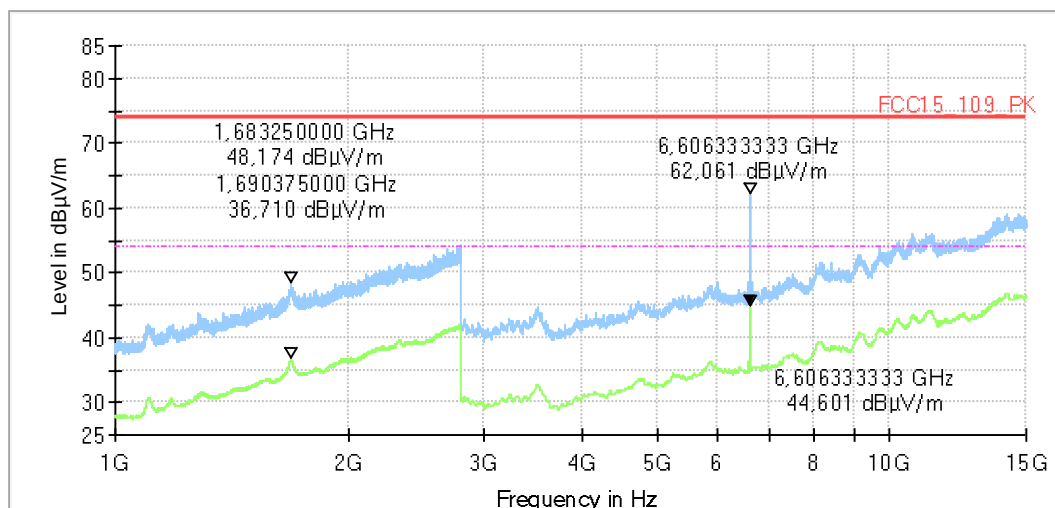
4.01

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operating Mode:	Op1
Operator:	HLA
Comment:	
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number:	20-1-01949S33_C01
Manufacturer:	Eliko Technoloogia Arenduskeskus OÜ
	Full Spectrum



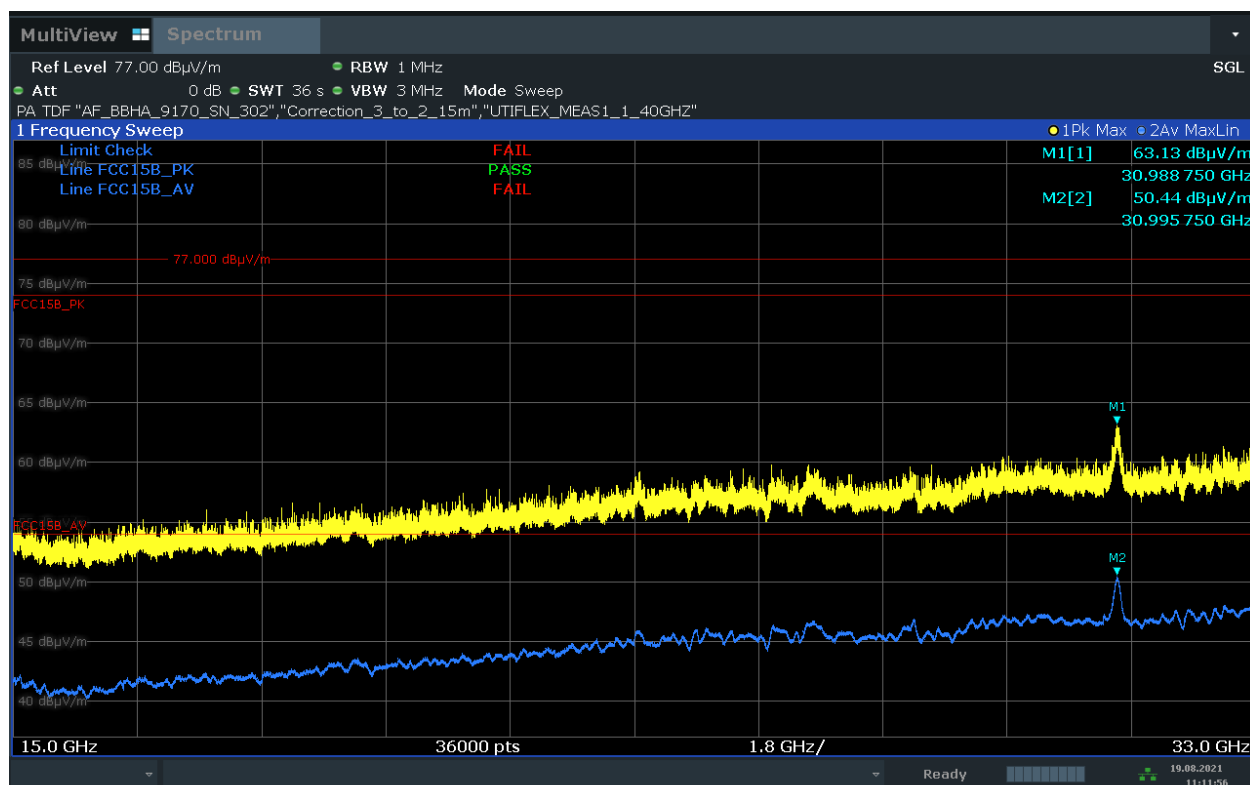
4.02

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC2) - EMC32 V10.50.0
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operating Mode:	Op1
Operator:	HLa
Comment:	
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT number:	20-1-01949S33_C01
Manufacturer:	Eliko Technologia Arenduskeskus OÜ



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End Of Annex 1