

Annex 1: Measurement diagrams

21-1-0062601T02a-C03-Annex1

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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:	KOSTAL Industrie Elektrik GmbH
Product: Model:	Frequency inverter Inveor MB / IV01 PW09 LP02 AP03 GH01 DK01 CO00		
FCC ID:	SX4INVEOR-M-BG-B	IC:	--
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 A limits) Conducted emissions in the frequency range 0.15 to 30 MHz Radiated emissions in the frequency range 30 to 1000 MHz		



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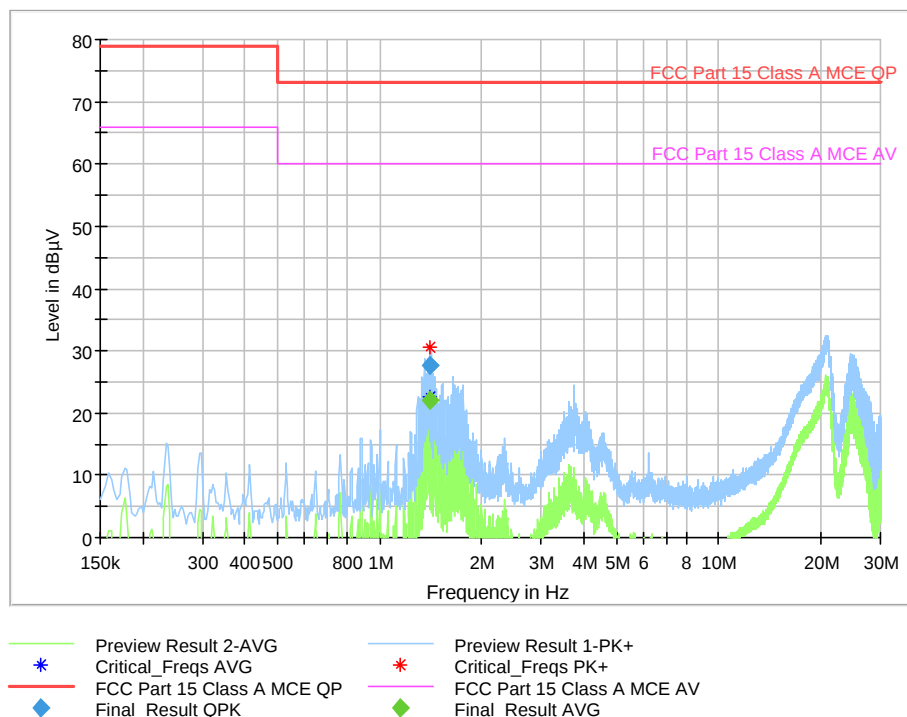
1 Measurement diagrams

1.01

Common Information

Test Description:	Mains conducted emission
Test Site & Location:	Shielded Room 1 (Lab 1); CETECOM GmbH Düsseldorf
Version of Testsoftware:	EMC32 V10.50.40
Test Specification:	FCC 15B, class A
Environmental Conditions:	Humidity: 36 %rH; Temperature: 23.2 °C; Pressure: 1018 hPa
Operating Mode:	10 Hz
Operator:	PSc
Comment:	

Full Spectrum



Final_Result

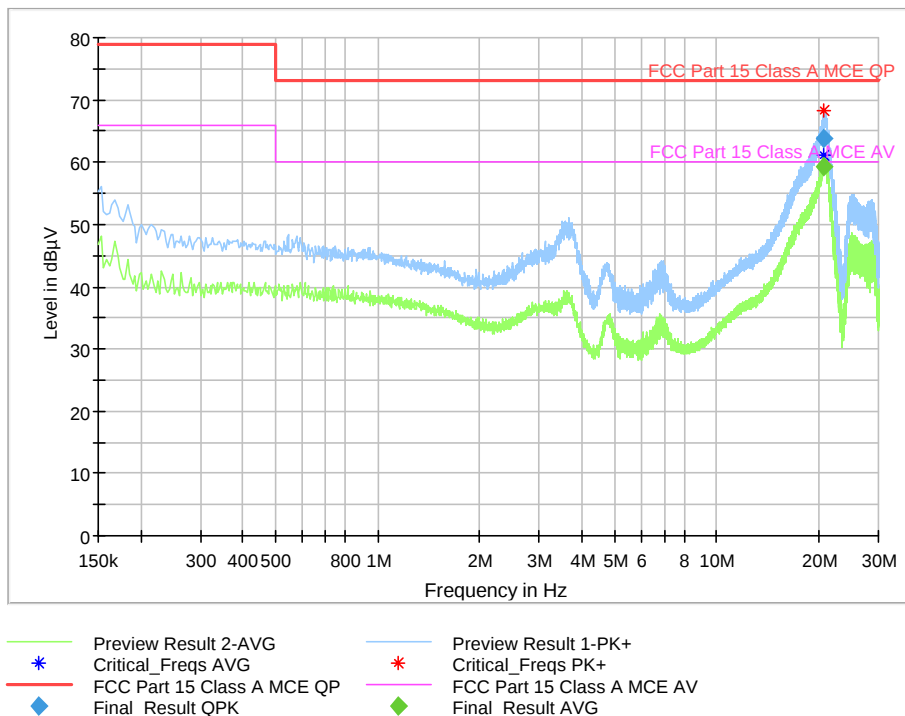
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.413000	27.64	---	73.00	45.36	1000.0	9.000	N	0.2
1.413000	---	22.12	60.00	37.88	1000.0	9.000	N	0.2

1.02

Common Information

Test Description:	Mains conducted emission
Test Site & Location:	Shielded Room 1 (Lab 1); CETECOM GmbH Düsseldorf
Version of Testsoftware:	EMC32 V10.50.40
Test Specification:	FCC 15B, class A
Environmental Conditions:	Humidity: 36 %rH; Temperature: 23.2 °C; Pressure: 1018 hPa
Operating Mode:	10 Hz
Operator:	PSc
Comment:	

Full Spectrum



Final_Result

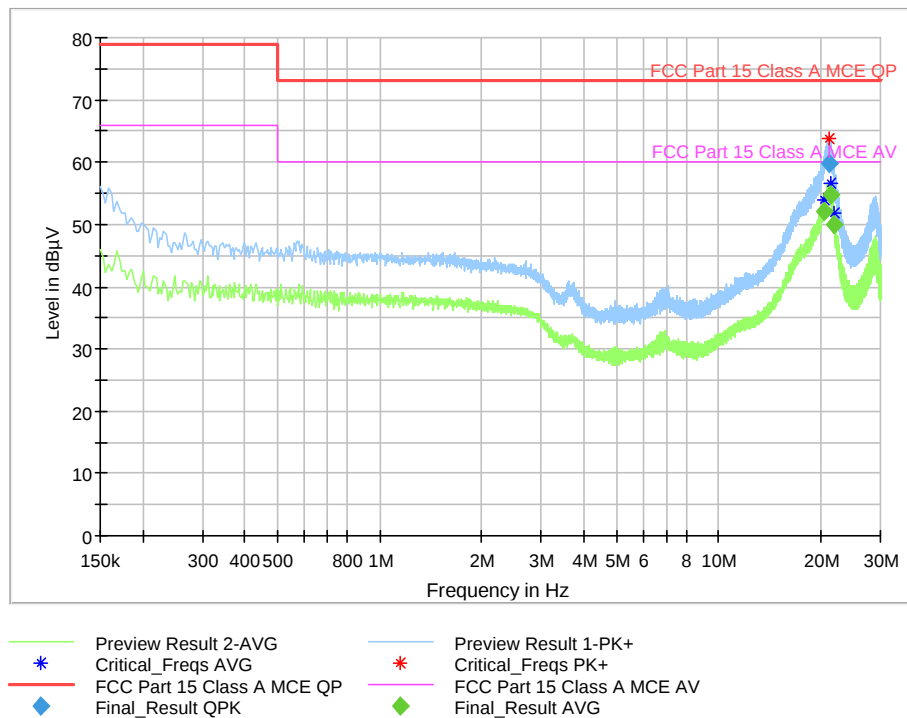
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
20.775000	63.91	---	73.00	9.09	1000.0	9.000	L1	1.1
20.808000	---	59.34	60.00	0.66	1000.0	9.000	L1	1.1

1.03

Common Information

Test Description:	Mains conducted emission
Test Site & Location:	Shielded Room 1 (Lab 1); CETECOM GmbH Düsseldorf
Version of Testsoftware:	EMC32 V10.50.40
Test Specification:	FCC 15B, class A
Environmental Conditions:	Humidity: 36 %rH; Temperature: 23.2 °C; Pressure: 1018 hPa
Operating Mode:	10 Hz
Operator:	PSc
Comment:	

Full Spectrum



Final_Result

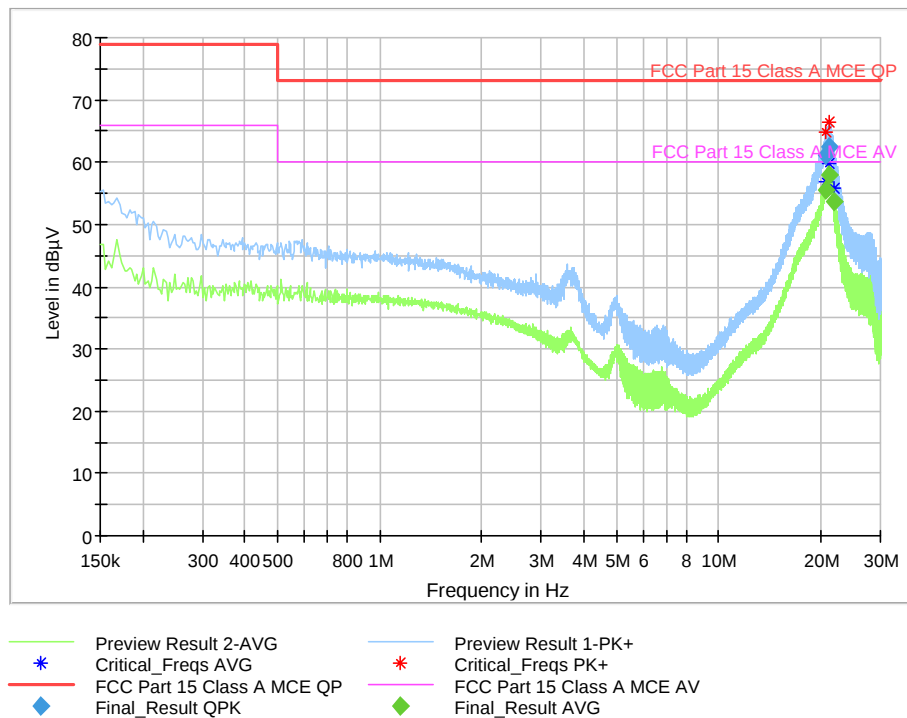
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
20.499000	---	52.22	60.00	7.78	1000.0	9.000	L2	1.1
21.105000	59.88	---	73.00	13.12	1000.0	9.000	L2	1.2
21.294000	---	54.77	60.00	5.23	1000.0	9.000	L2	1.2
21.855000	---	50.00	60.00	10.00	1000.0	9.000	L2	1.2

1.04

Common Information

Test Description:	Mains conducted emission
Test Site & Location:	Shielded Room 1 (Lab 1); CETECOM GmbH Düsseldorf
Version of Testsoftware:	EMC32 V10.50.40
Test Specification:	FCC 15B, class A
Environmental Conditions:	Humidity: 36 %rH; Temperature: 23.2 °C; Pressure: 1018 hPa
Operating Mode:	10 Hz
Operator:	PSc
Comment:	

Full Spectrum



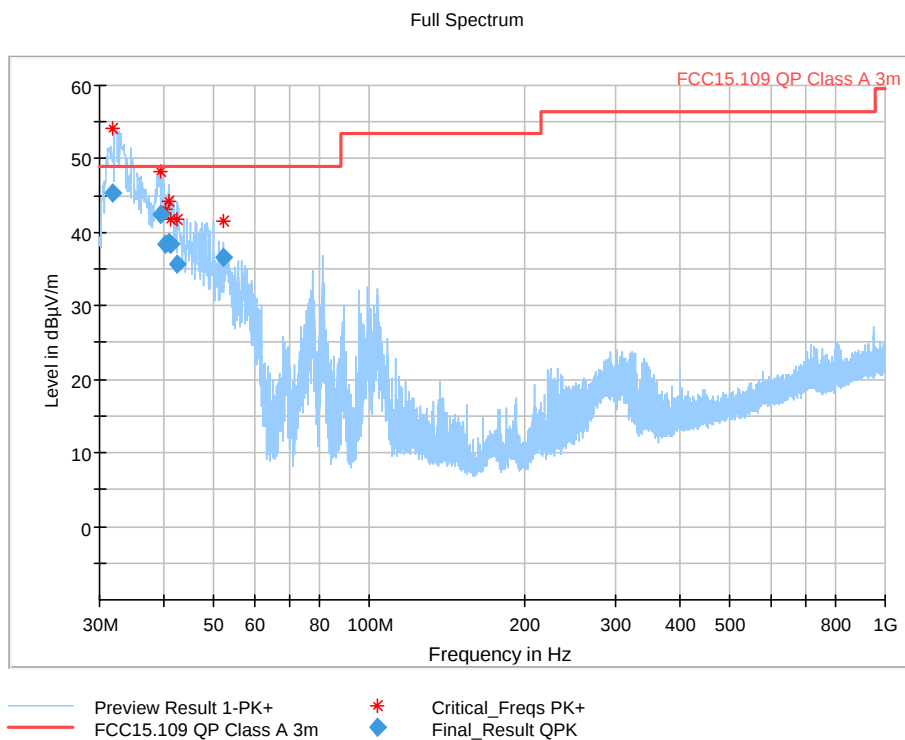
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
20.646000	---	55.46	60.00	4.54	1000.0	9.000	L3	1.1
20.781000	61.01	---	73.00	11.99	1000.0	9.000	L3	1.1
21.138000	62.57	---	73.00	10.43	1000.0	9.000	L3	1.2
21.165000	---	57.82	60.00	2.18	1000.0	9.000	L3	1.2
21.801000	---	53.58	60.00	6.42	1000.0	9.000	L3	1.2

3.01

Date: 28.05.2021
 Test Description: Electric Fieldstrength Measurement above 1GHz
 Test Site & Location: Semi Anechoic Chamber 2 (SAC); CETECOM GmbH Düsseldorf
 Version of Testsoftware: EMC32 V10.0.0
 Test Specification: FCC15.109, class A; RSS-Gen.: Issue 4
 Operating Mode: 25Hz
 Used Filter: none
 Measured side(s): front, right, rear, left
 Distance correction: no, measurement in 3m Distance with 3m Limits
 Environmental conditions: Humidity: 37% rH; Temperature: 20.2 °C; Pressure: 1010 hPa
 Operator: A. Ueberbach
 Comments:

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.800000	45.32	49.00	3.68	120.000	100.0	V	273.0	18.9
39.316000	42.38	49.00	6.62	120.000	104.0	V	281.0	14.7
40.312000	38.41	49.00	10.59	120.000	104.0	V	318.0	14.1
40.788000	38.57	49.00	10.43	120.000	100.0	V	325.0	13.8
41.124000	38.33	49.00	10.67	120.000	100.0	V	286.0	13.6
42.352000	35.59	49.00	13.41	120.000	100.0	V	305.0	12.9
52.236000	36.67	49.00	12.33	120.000	128.0	V	337.0	6.6

End Of Annex 1