

Annex 1: Measurement diagrams

21-1-0062601T01a-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 MA / IV01 PW06 LP01 AP10 GH01 DK01 CO00		
FCC ID:	SX4INVEOR-M-BG-A	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		



Table of Contents

1 Measurement diagrams.....3

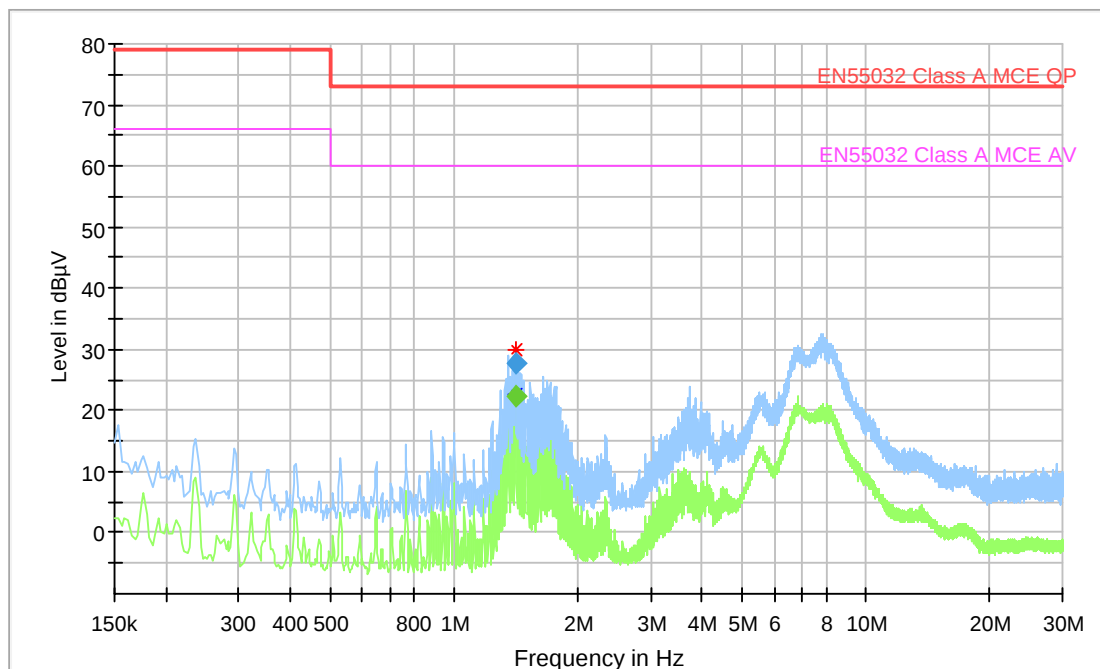
1 Measurement diagrams

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
Environmental Conditions: Humidity: 36 %rH; Temperature: 23.2 °C; Pressure: 1018 hPa
Operating Mode: 10 Hz
Operator: PSc
Comment:

Full Spectrum



Preview Result 2-AVG
Critical_Freqs PK+
Final_Result QPK
Preview Result 1-PK+
EN55032 Class A MCE QP
Final_Result AVG
Critical_Freqs AVG
EN55032 Class A MCE AV

Final_Result

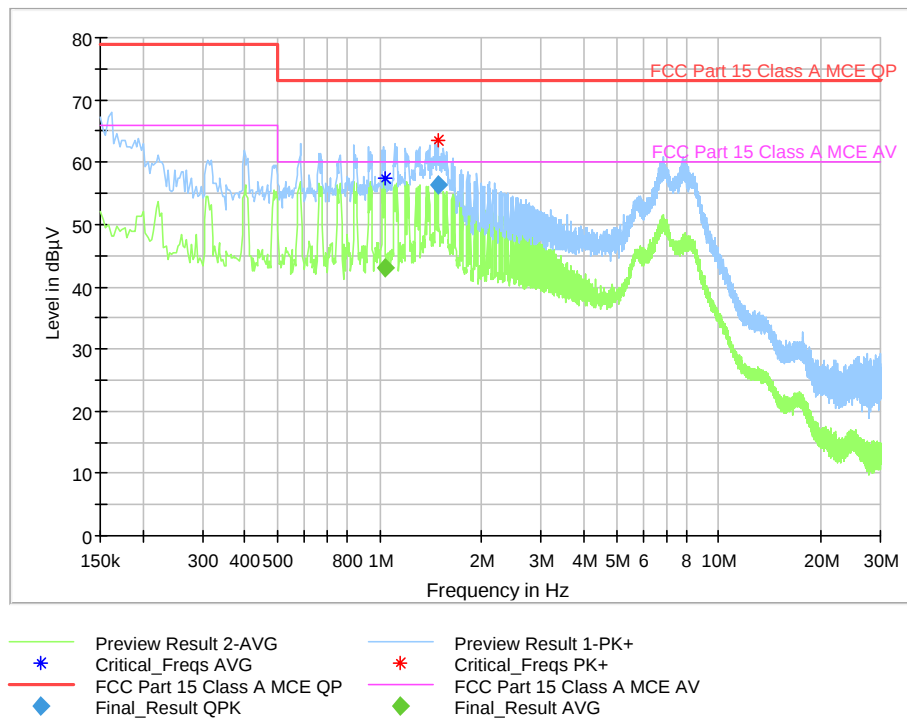
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.413000	---	22.19	46.00	23.81	1000.0	9.000	N	0.2
1.413000	27.61	---	56.00	28.39	1000.0	9.000	N	0.2

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 part 15 B 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

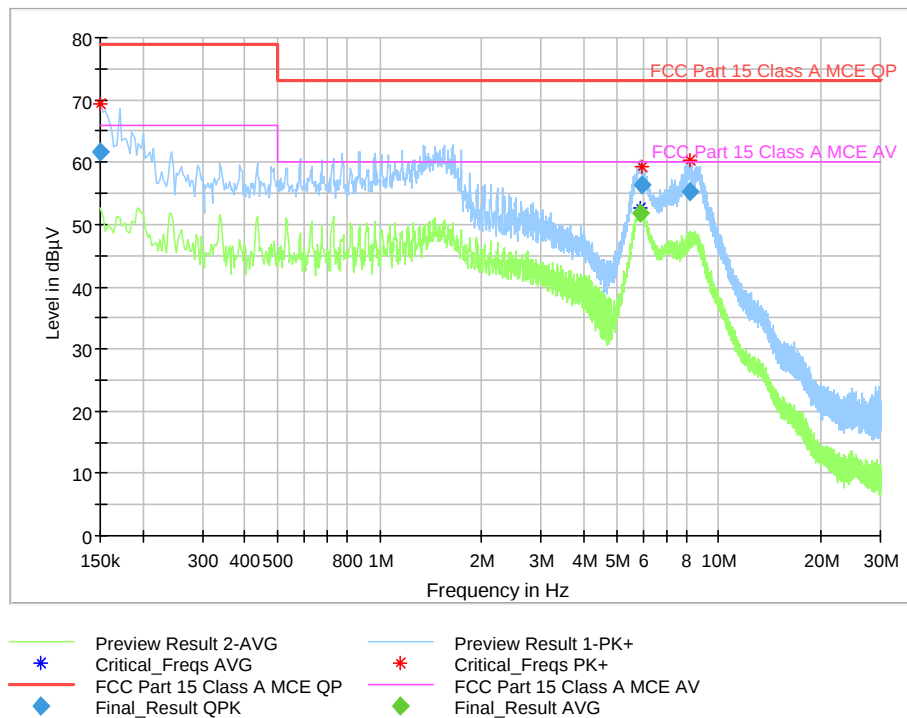
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.035000	---	43.03	60.00	16.97	1000.0	9.000	L1	0.2
1.488000	56.41	---	73.00	16.59	1000.0	9.000	L1	0.2

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 part 15 B 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

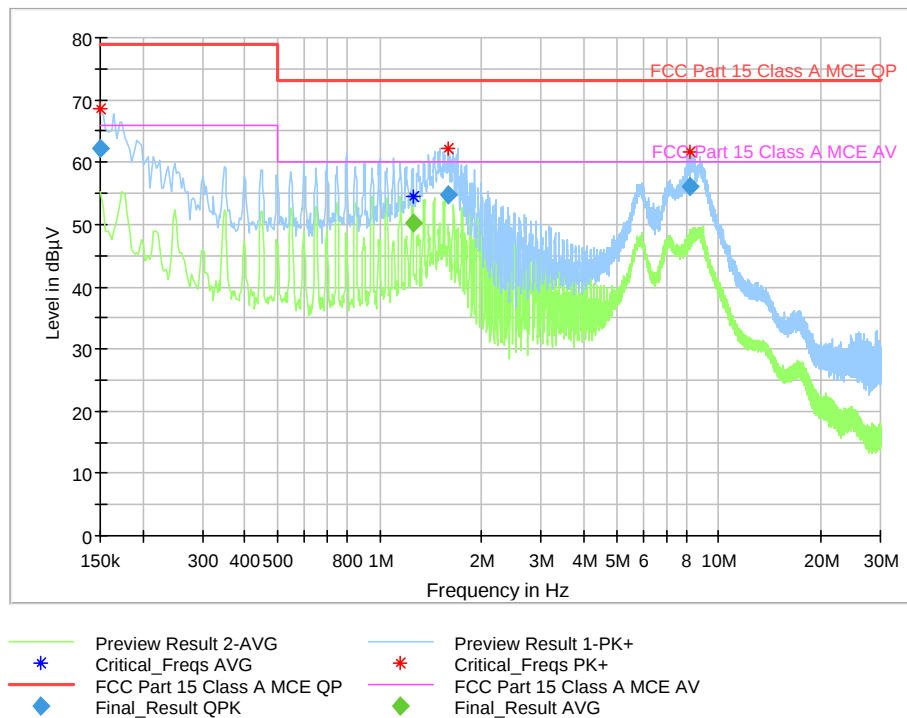
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	61.68	---	79.00	17.32	1000.0	9.000	L2	0.1
5.898000	---	51.86	60.00	8.14	1000.0	9.000	L2	0.3
5.946000	56.40	---	73.00	16.60	1000.0	9.000	L2	0.3
8.190000	55.22	---	73.00	17.78	1000.0	9.000	L2	0.4

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 part 15 B 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

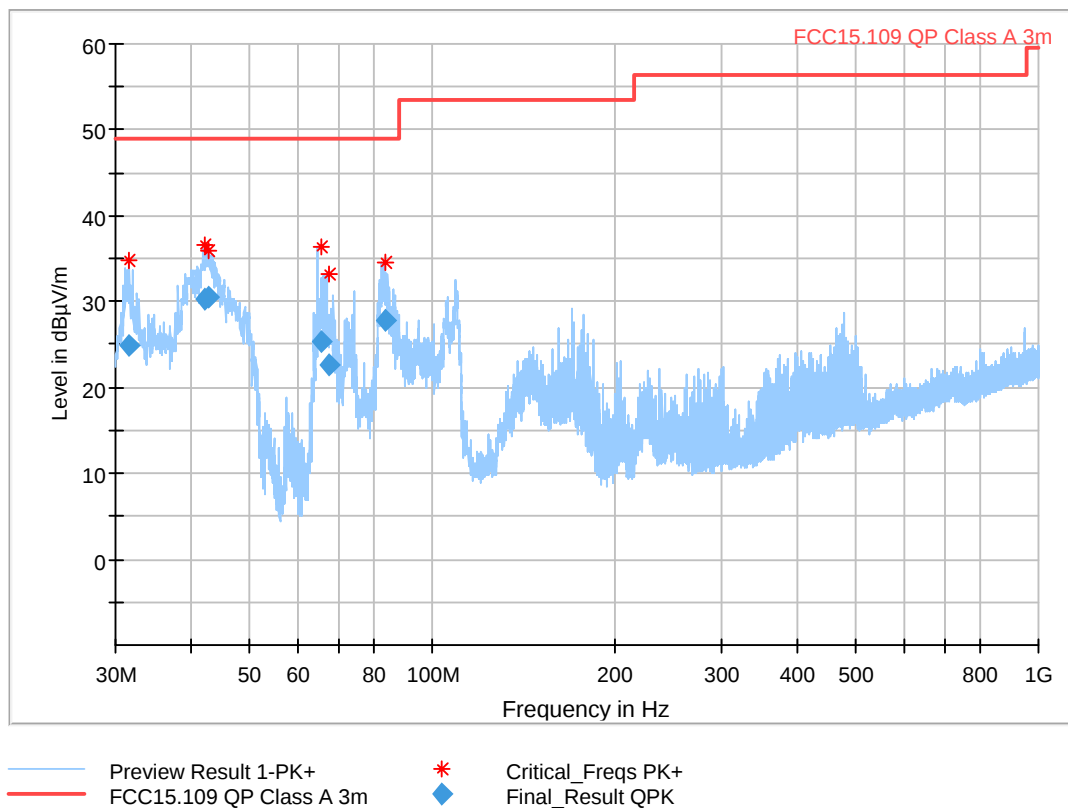
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	62.29	---	79.00	16.71	1000.0	9.000	L3	0.1
1.254000	---	50.16	60.00	9.84	1000.0	9.000	L3	0.2
1.593000	54.87	---	73.00	18.13	1000.0	9.000	L3	0.2
8.271000	56.14	---	73.00	16.86	1000.0	9.000	L3	0.4

3.01

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

Full Spectrum

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Band width (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.644000	24.81	40.00	15.19	120.0	111.0	V	178.0	19.0
42.164000	30.40	40.00	9.60	120.0	104.0	V	228.0	13.0
42.808000	30.43	40.00	9.57	120.0	100.0	V	245.0	12.6
65.608000	25.24	40.00	14.76	120.0	162.0	V	2.0	8.1
67.532000	22.55	40.00	17.45	120.0	106.0	V	180.0	8.7
83.408000	27.84	40.00	12.16	120.0	114.0	V	266.0	11.2

End Of Annex 1