

# **G+GENESYS™ 3.4kW**

## *EMI*

## *DATA*

APPD	CHK	DWG
<i>Ujam</i> <i>22/08/19</i>	<i>ASAF.A</i> <i>22/08/19</i>	<i>PAVEL G.</i> <i>22/08/19</i>

**TDK-LAMBDA**

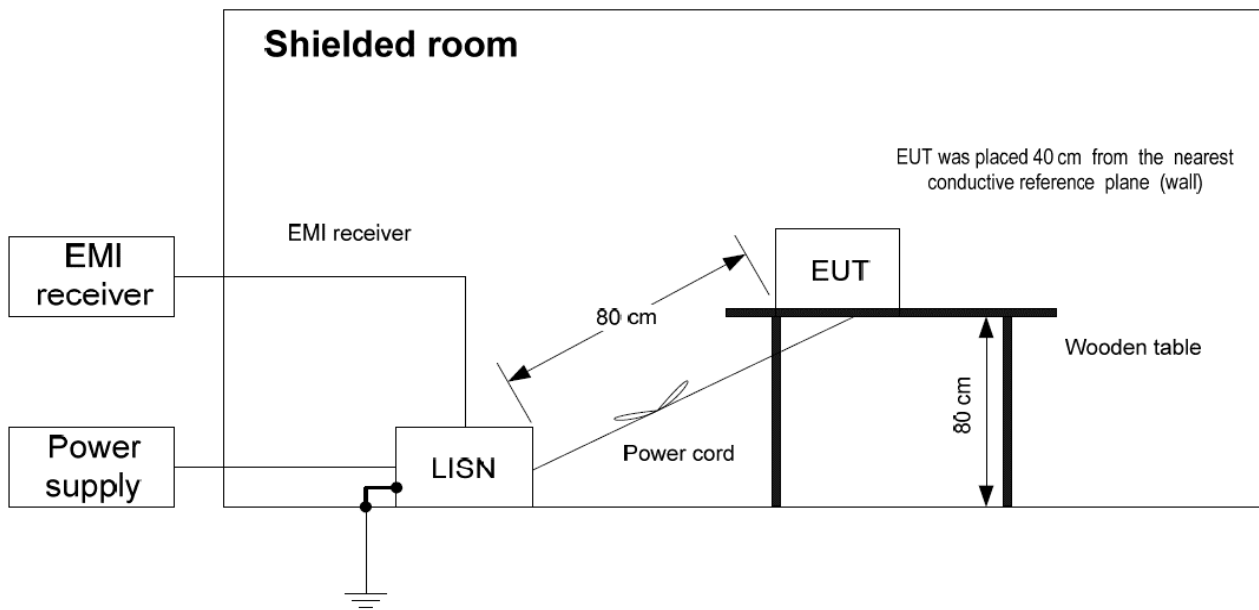
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The above data is typical value data.

The values are considered to be actual capability data.

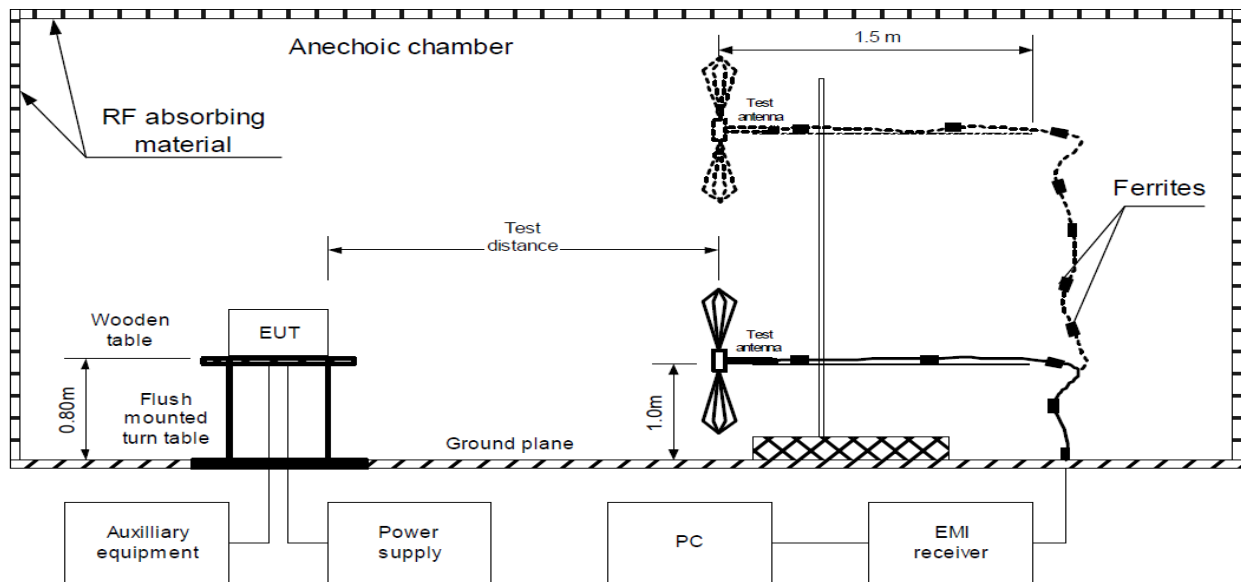
# 1. Test Method

## (1) Conducted Emission



EMI TEST RECEIVER	ESPI	(ROHDE & SCHWARZ)
LISN	ENV4200	(ROHDE & SCHWARZ)

## (2) Radiated Emission



Trilog Antenna	Frankonia	ALX-8000E
Active Horn Antenna	COM-POWER CORP.	AHA-118
EMI Test Receiver	Rohde&Schwarz	(EMCO)
Temp.&Humidity Meter	Mad Electronics	HTC-1
Microwave cable Assembly	Huber-Suhner	SUCOFLEX 102A
RF Cable	Huber-Suhner	SF118/11N

## 2. Test Data

### 2.1 Conducted Emission

<b>MODEL: G10-340 1P200</b>
-----------------------------

(1) Test condition

Input voltage/frequency: 1PHASE 230VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteference wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dB $\mu$ V	dB $\mu$ V	dB $\mu$ V
L	26.00536	48.05	50.00	1.95
N	26.00536	47.68	50.00	2.32

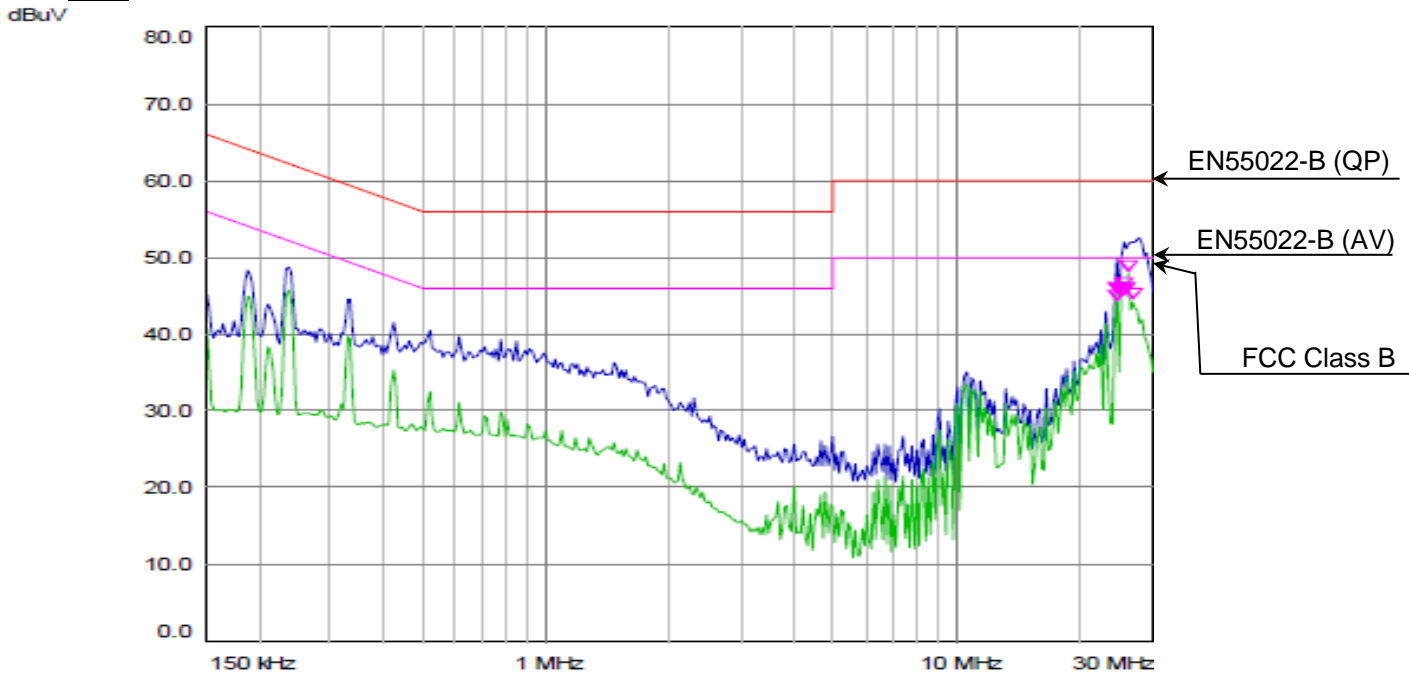
## 2. Test Data

### 2.1 Conducted Emission

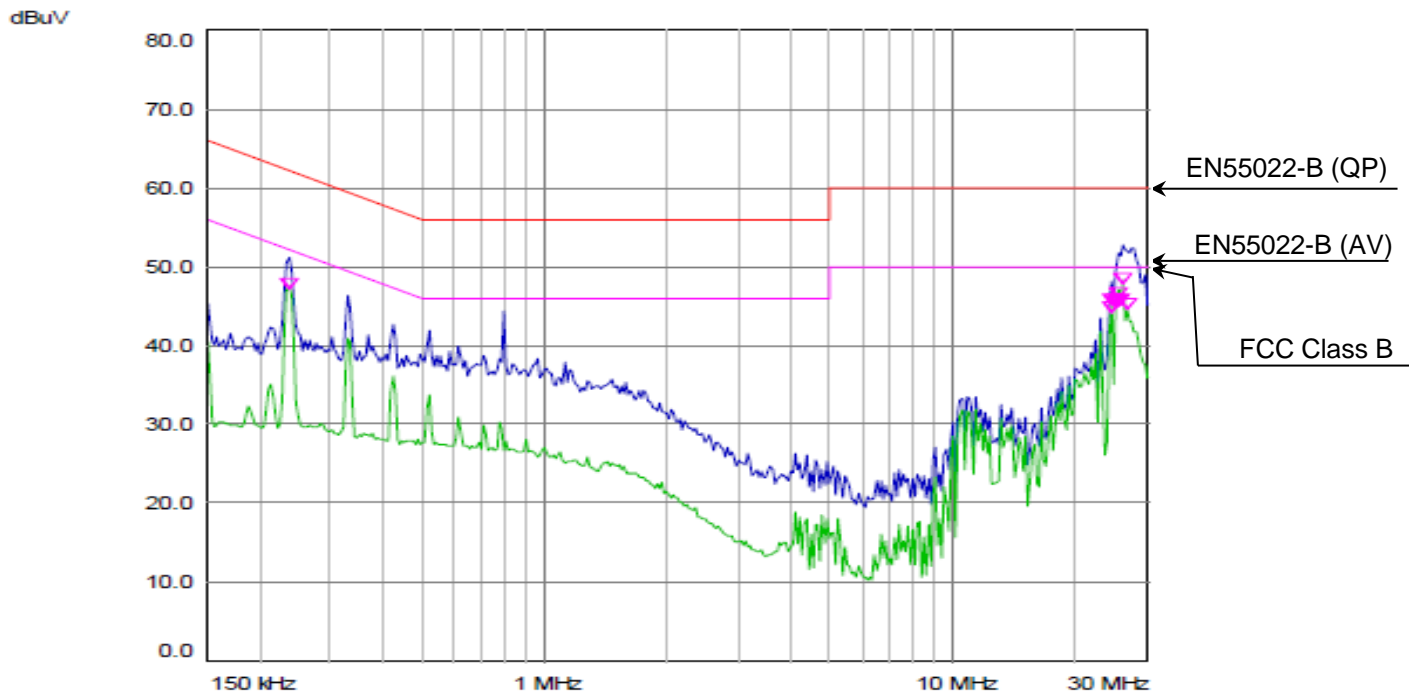
MODEL: G10-340 1P200

Vin: 1PHASE 100VAC  
Iout: 100%  
Vout: 100%  
Ta: 25°C

#### Line



#### Neutral



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G10-340 3P200**

(1) Test condition

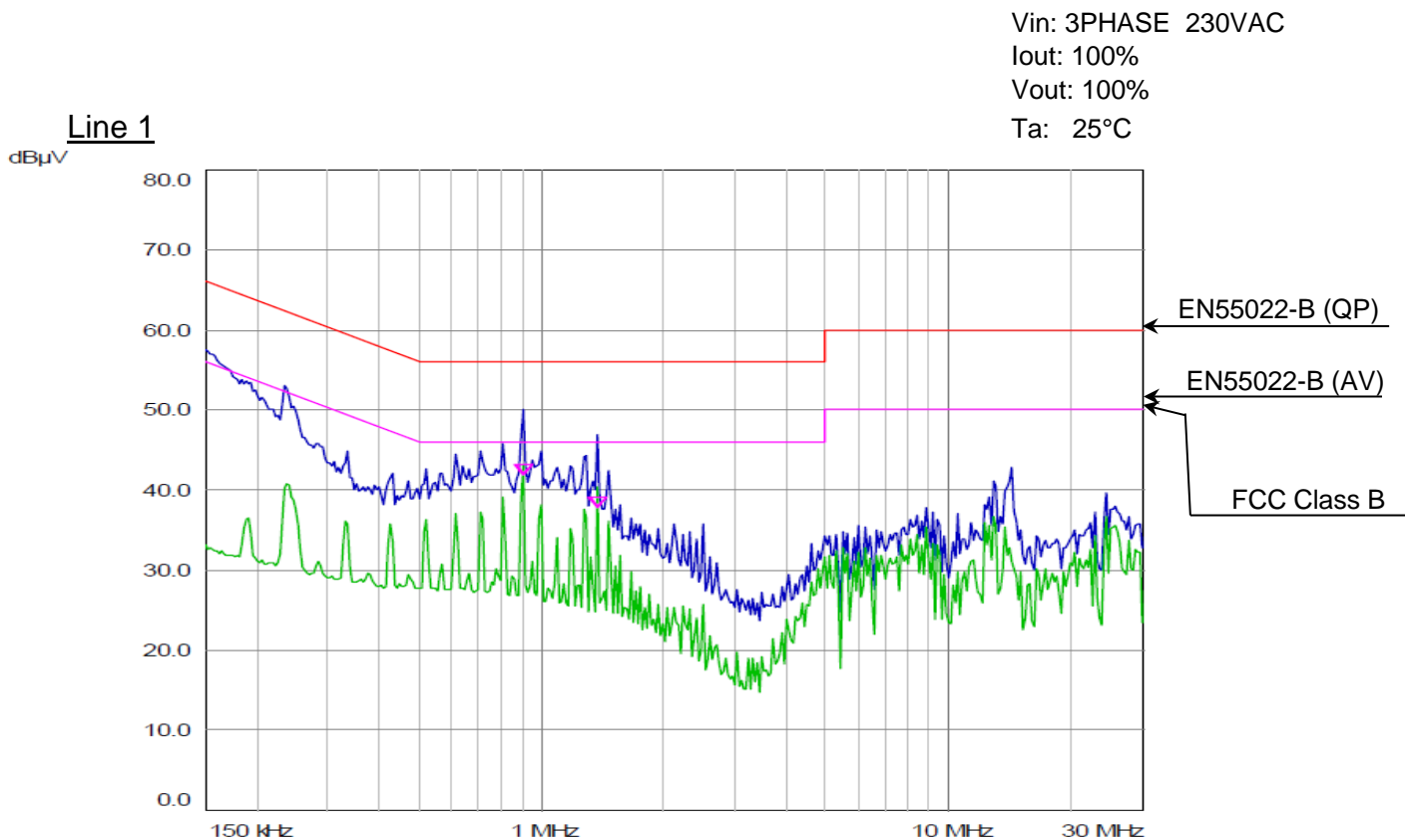
Input voltage/frequency: 3PHASE 230VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
	MHz	dBμV	dBμV	dBμV
L1	0.90211	41.94	46.00	4.06
L2	1.37681	37.96	46.00	8.04
L3	0.90121	42.00	46.00	4.00



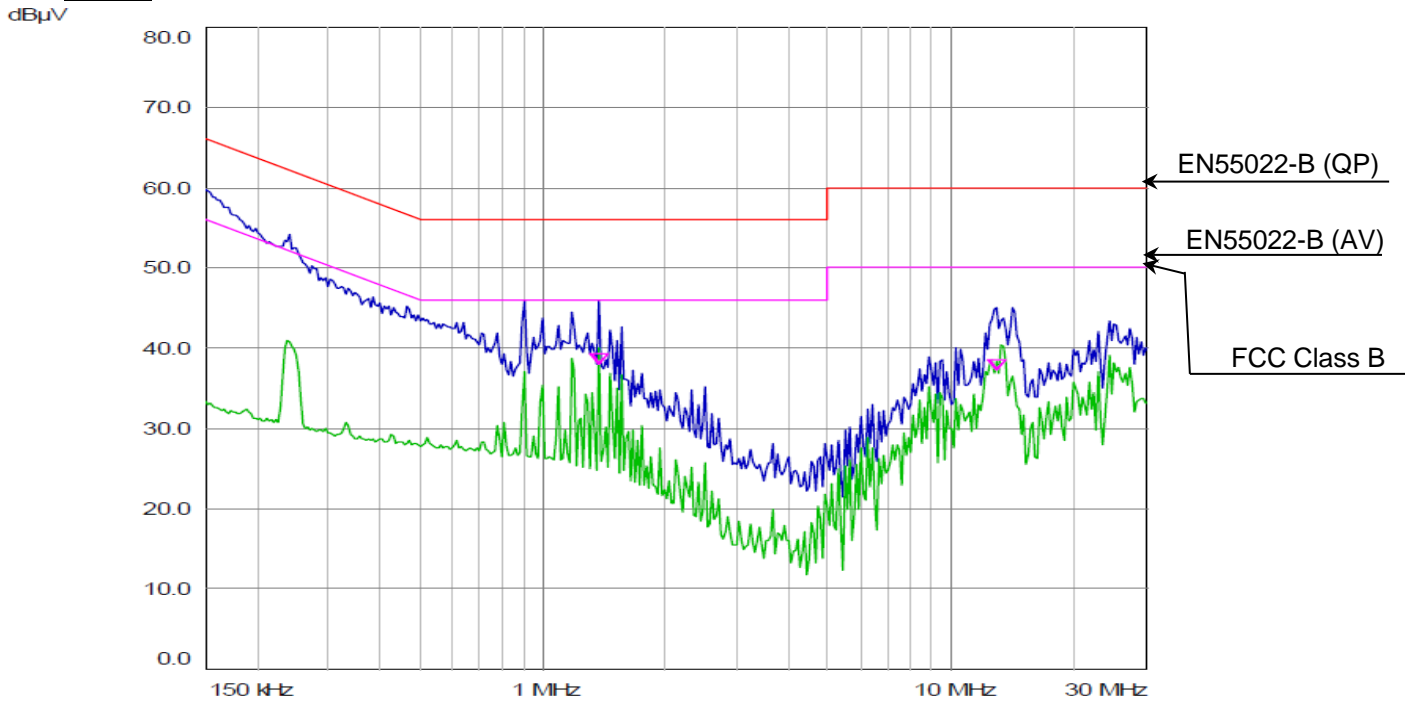
## 2. Test Data

### 2.1 Conducted Emission

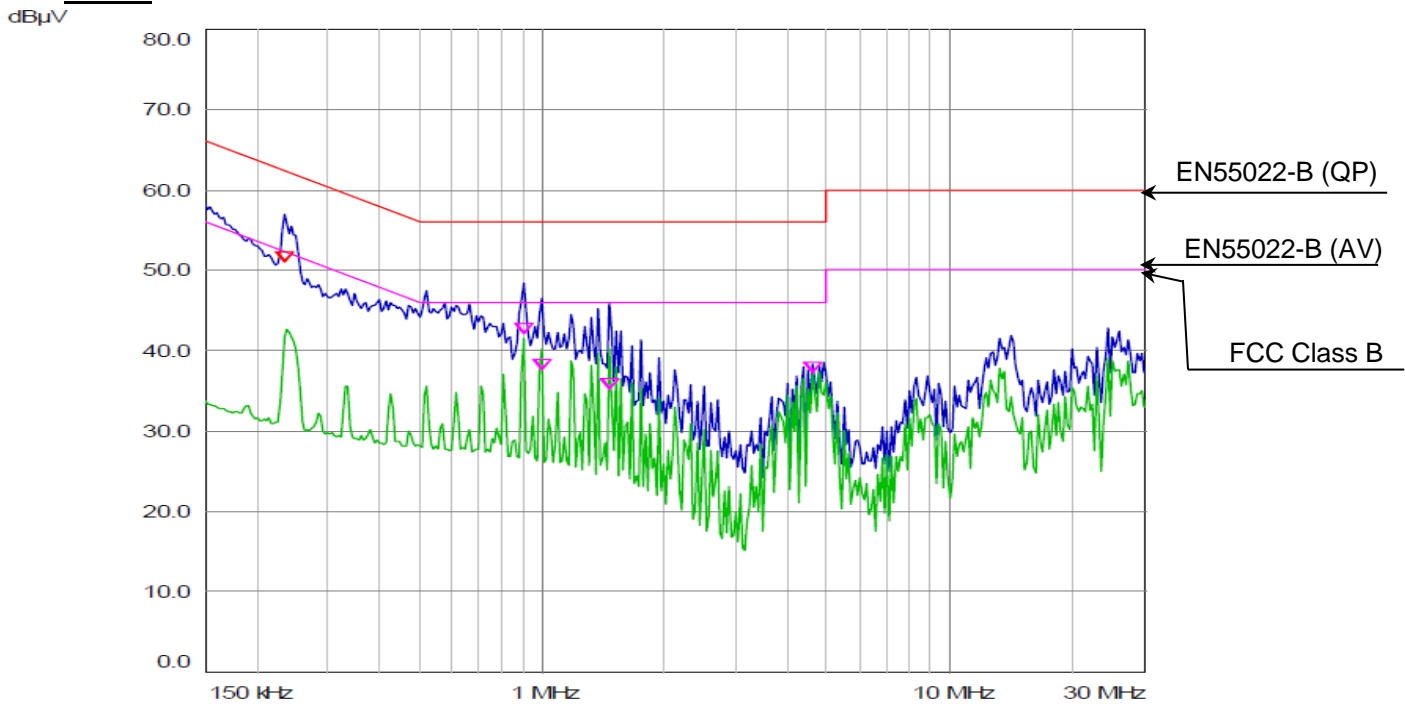
**MODEL: G10-340 3P200**

Vin: 3PHASE 230VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

#### Line 2



#### Line 3



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G10-340 3P400**

(1) Test condition

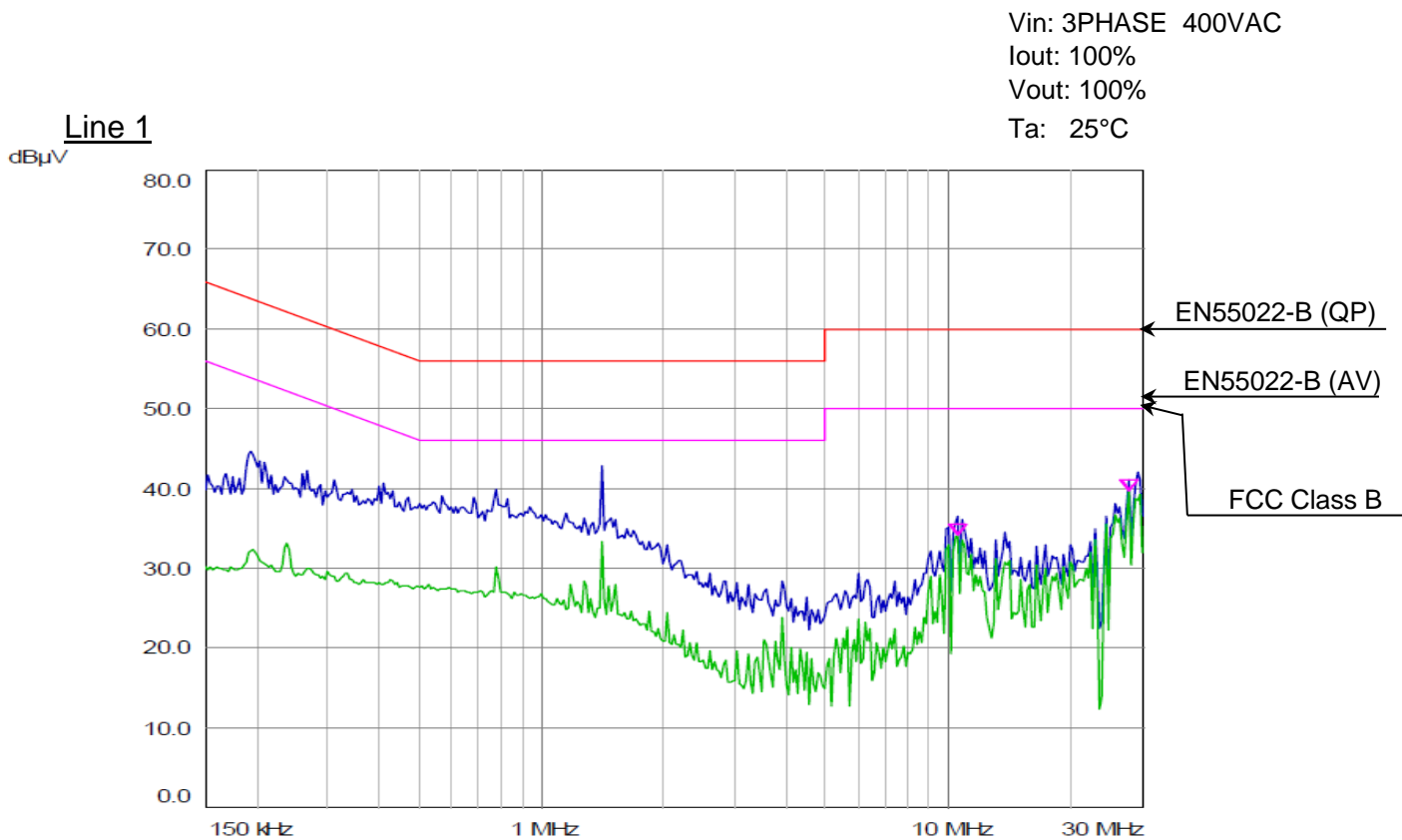
Input voltage/frequency: 3PHASE 400VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
	MHz	dBμV	dBμV	dBμV
L1	27.80649	39.66	50.00	10.34
L2	1.51850	35.87	46.00	10.13
L3	4.68872	33.74	46.00	12.26





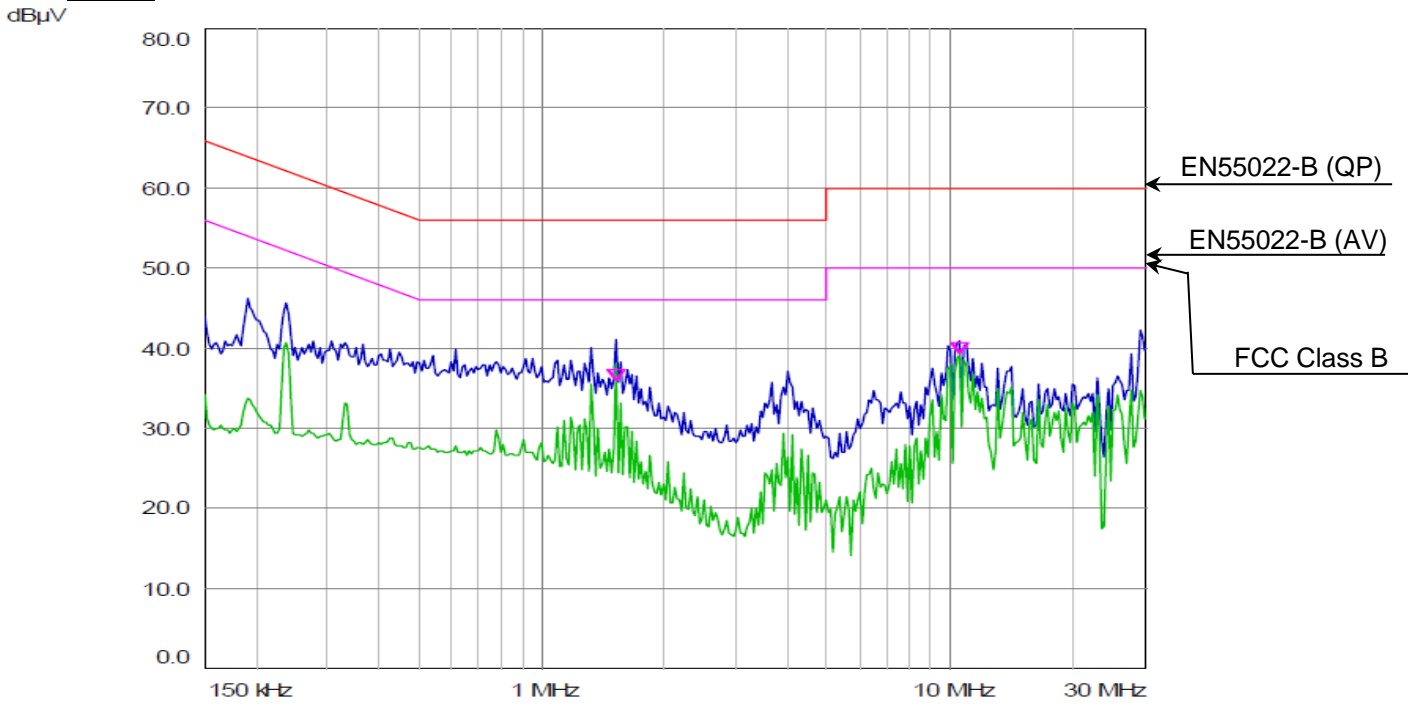
## 2. Test Data

### 2.1 Conducted Emission

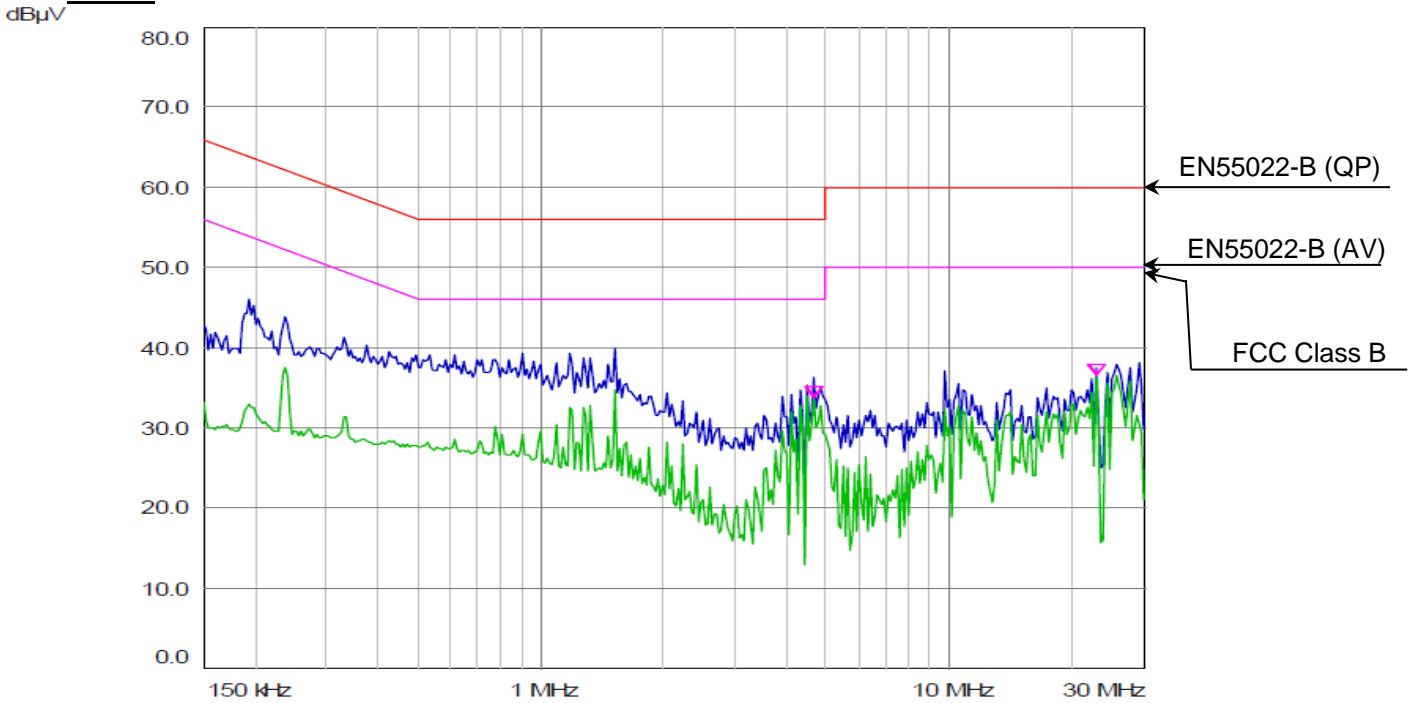
**MODEL: G10-340 3P400**

Vin: 3PHASE 400VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

#### Line 2



#### Line 3



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G10-340 3P480**

(1) Test condition

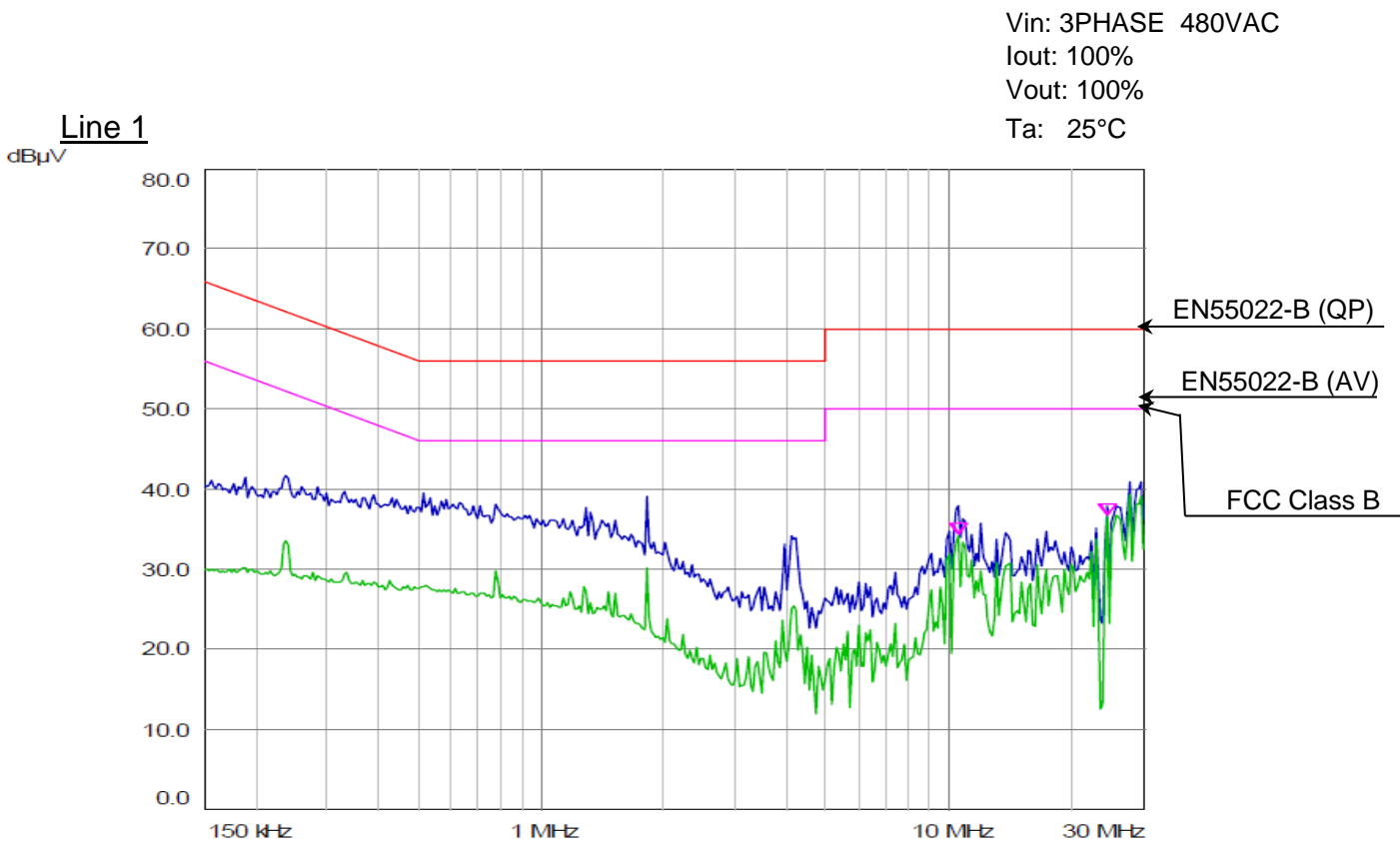
Input voltage/frequency: 3PHASE 480VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
	MHz	dBμV	dBμV	dBμV
L1	24.39394	36.65	50.00	13.35
L2	1.51850	35.94	46.00	10.06
L3	4.50046	33.74	46.00	12.26



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G10-340 3P480**

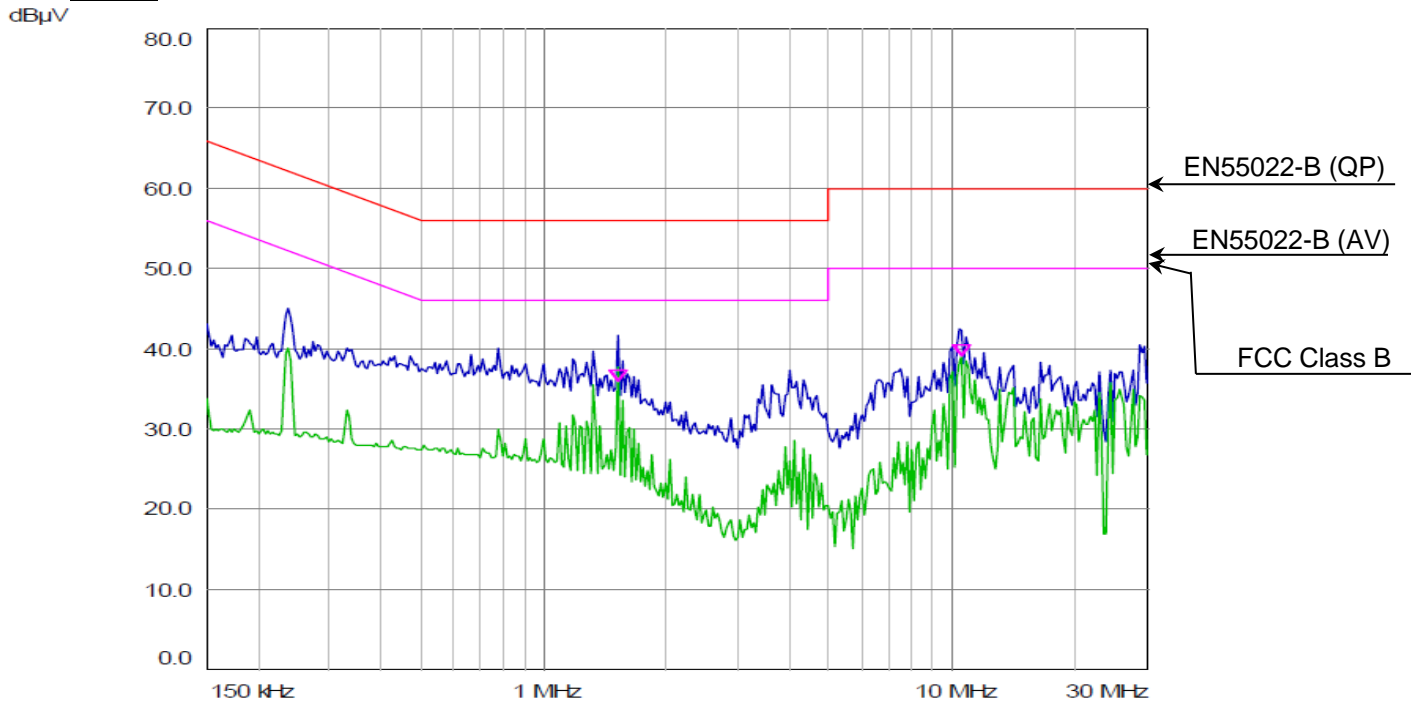
Vin: 3PHASE 480VAC

Iout: 100%

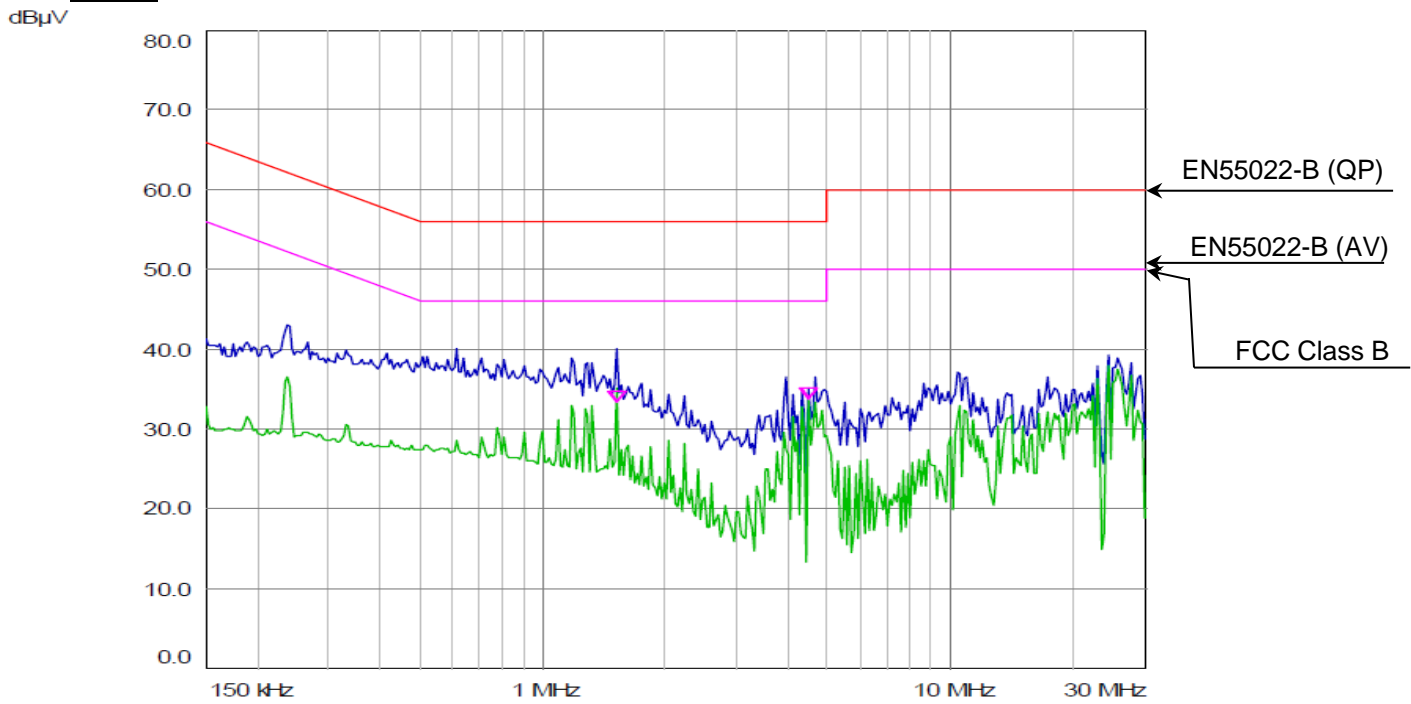
Vout: 100%

Ta: 25°C

#### Line 2



#### Line 3



## 2. Test Data

### 2.1 Conducted Emission

<b>MODEL: G60-56 1P200</b>
----------------------------

(1) Test condition

Input voltage/frequency: 1PHASE 230VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteference wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dB $\mu$ V	dB $\mu$ V	dB $\mu$ V
L	0.18971	49.26	54.05	4.79
N	0.23661	45.14	52.21	7.07

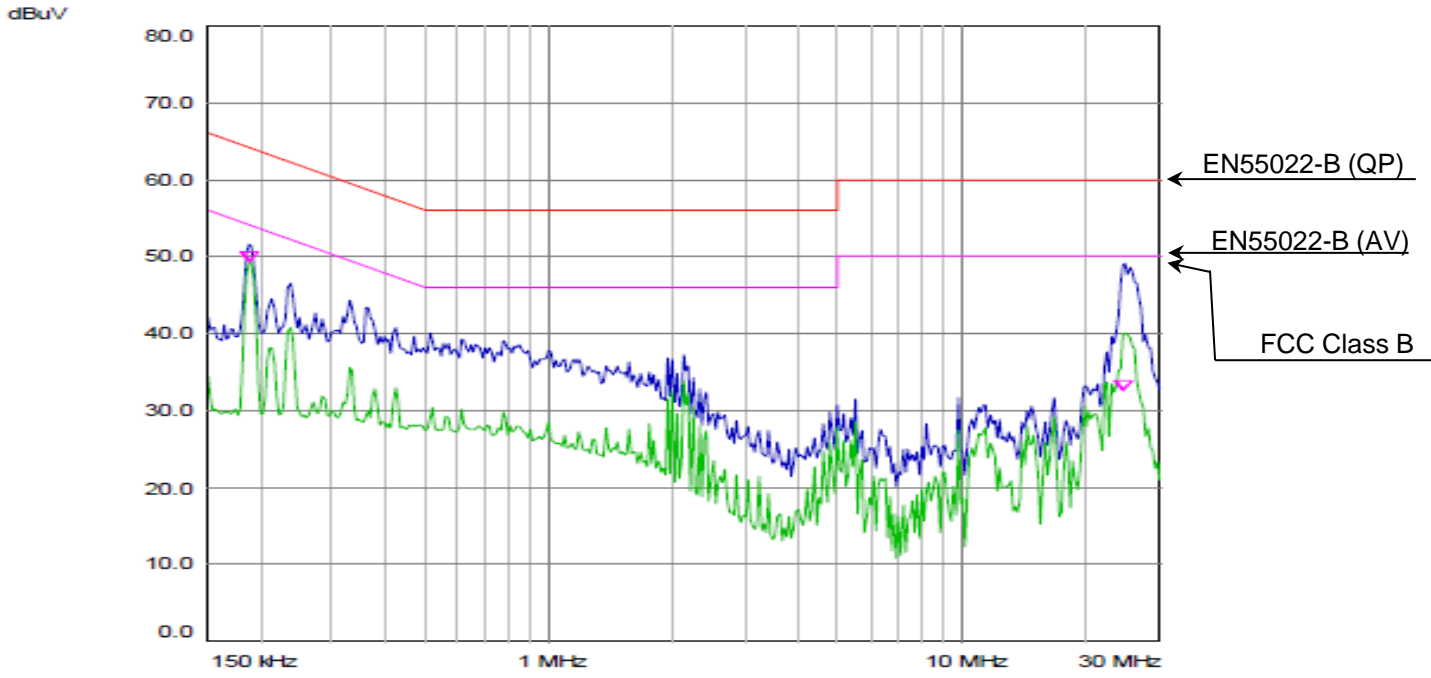
## 2. Test Data

### 2.1 Conducted Emission

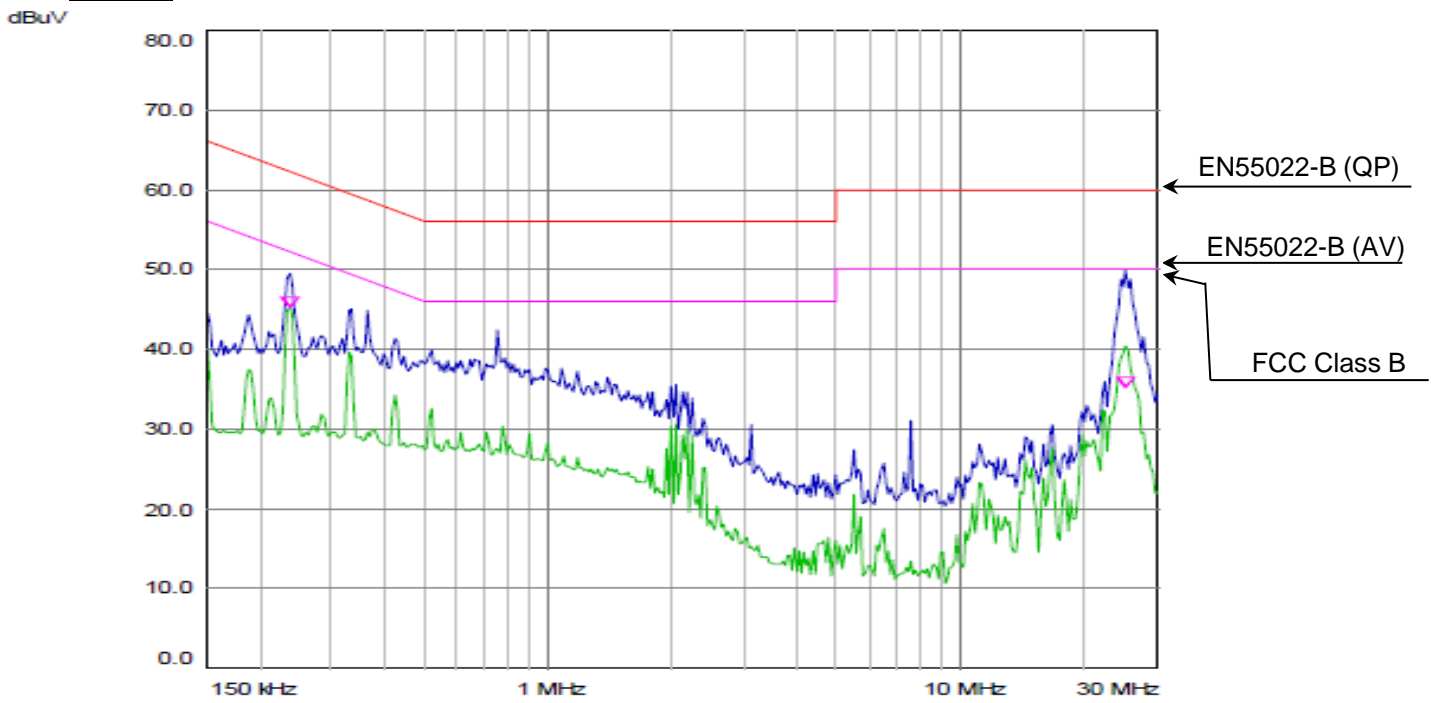
MODEL: G60-56 1P200

Conditions: Vin: 1PHASE 230VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

#### Line



#### Neutral



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G60-56 3P200**

(1) Test condition

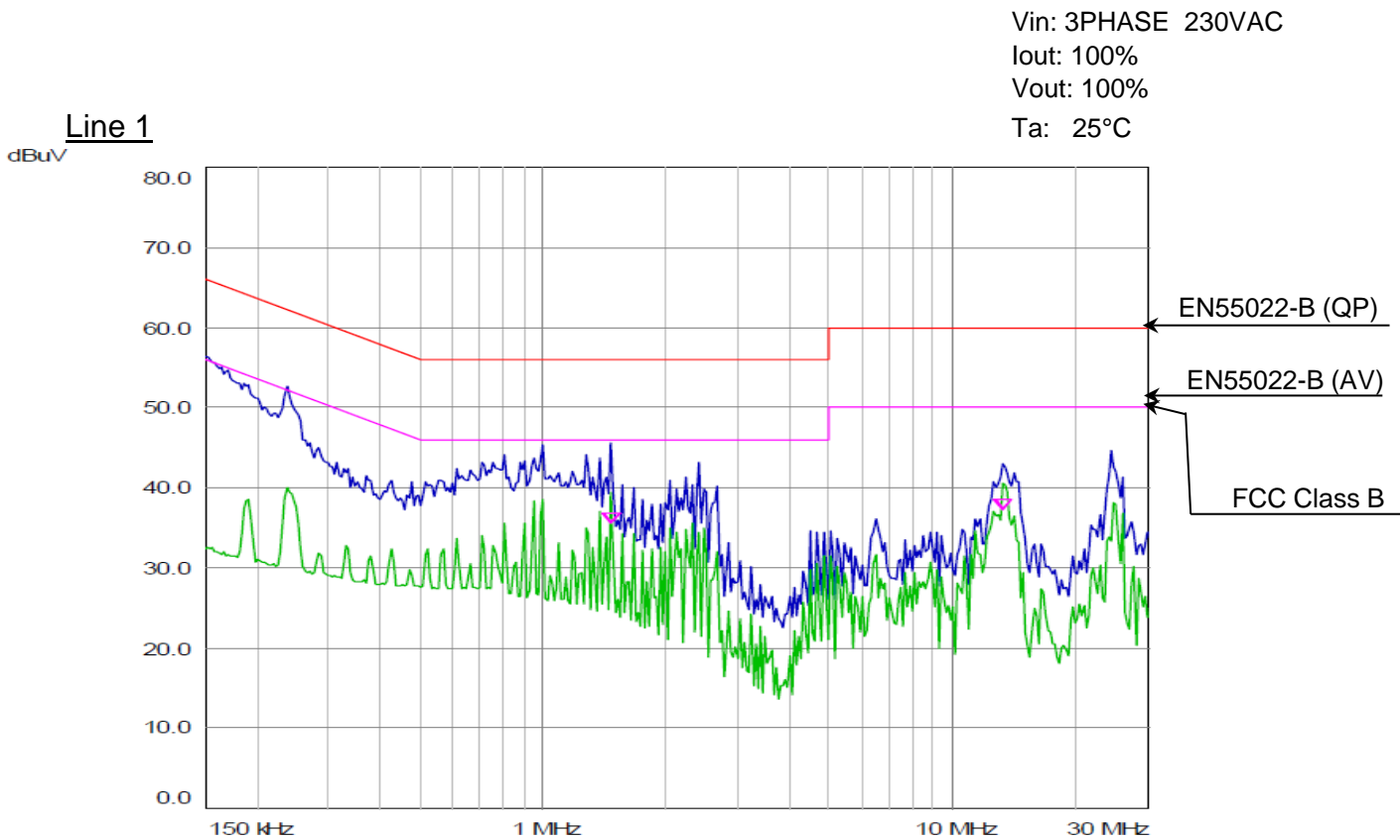
Input voltage/frequency: 3PHASE 230VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteference wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
	MHz	dBμV	dBμV	dBμV
L1	1.47217	35.63	46.00	10.37
L2	2.03720	38.09	46.00	7.91
L3	2.03720	42.93	46.00	3.07



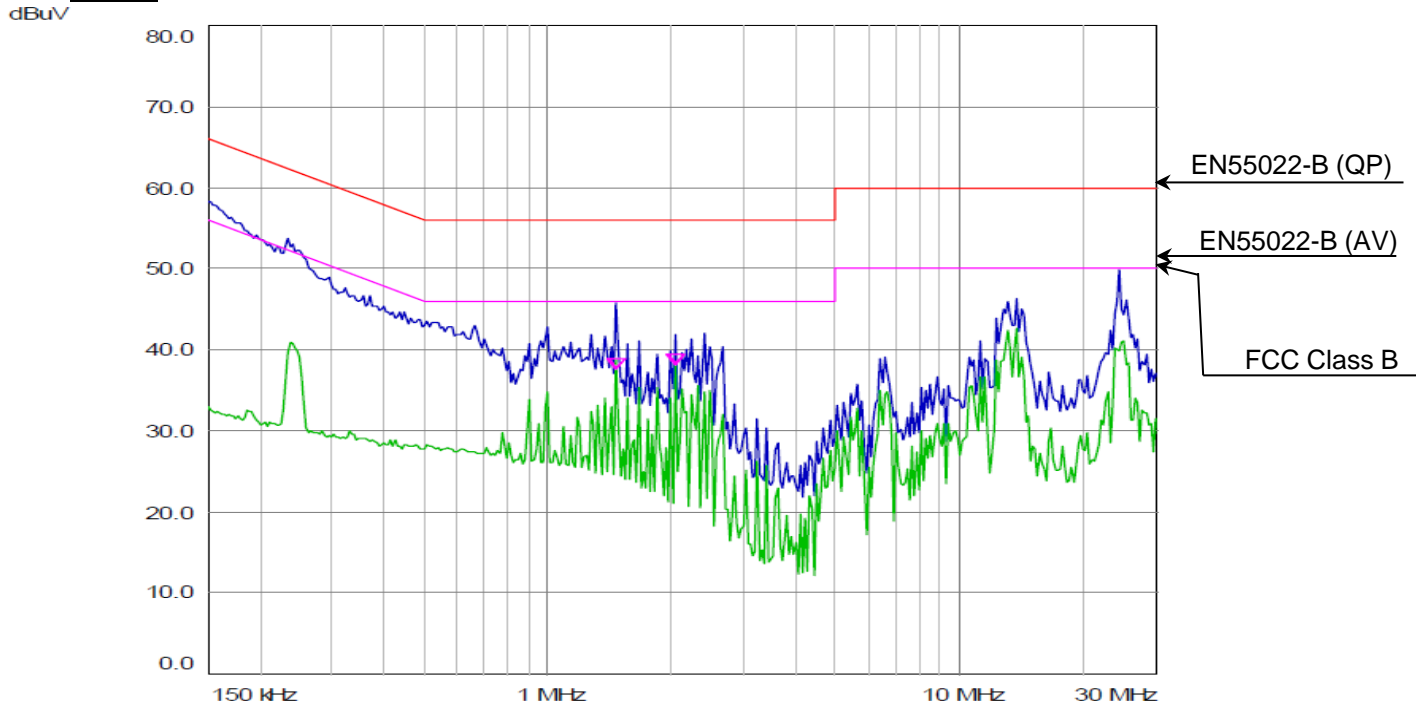
## 2. Test Data

### 2.1 Conducted Emission

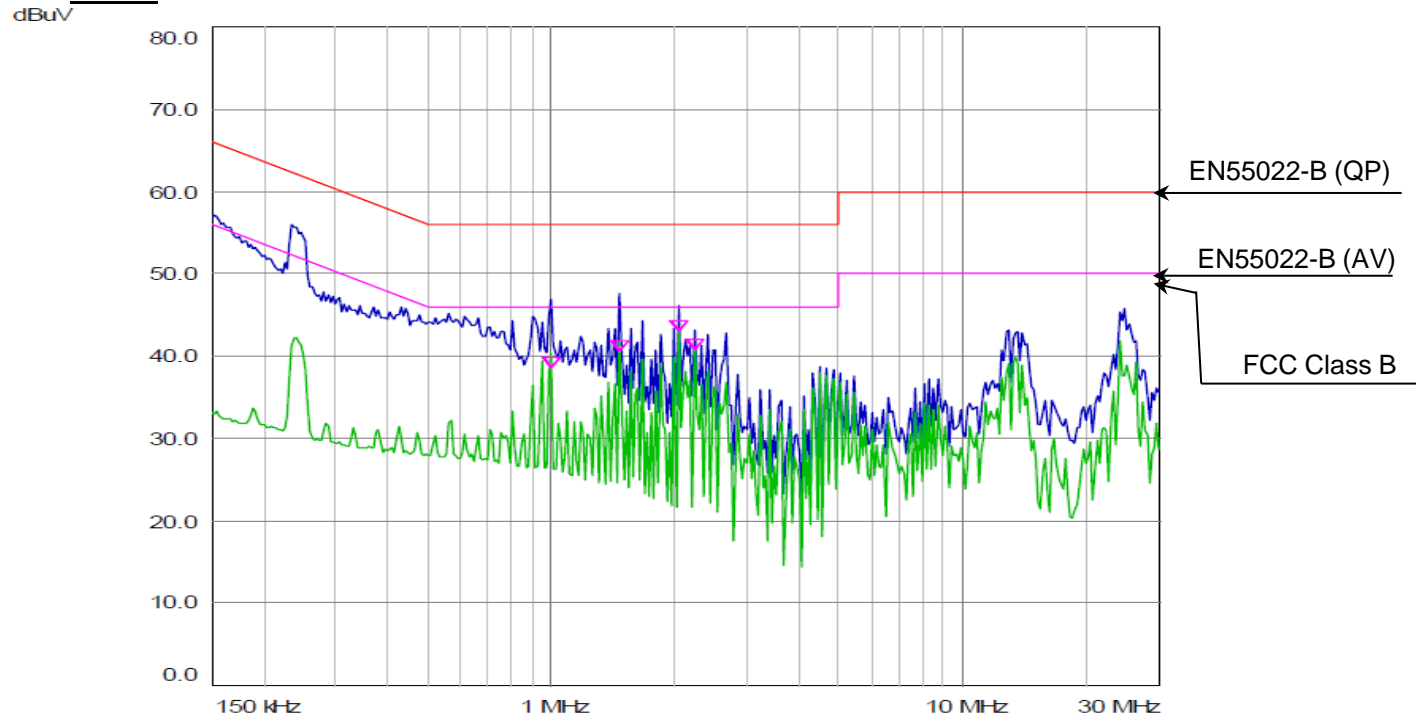
**MODEL: G60-56 3P200**

Vin: 3PHASE 230VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

Line 2



Line 3



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G60-56 3P400**

(1) Test condition

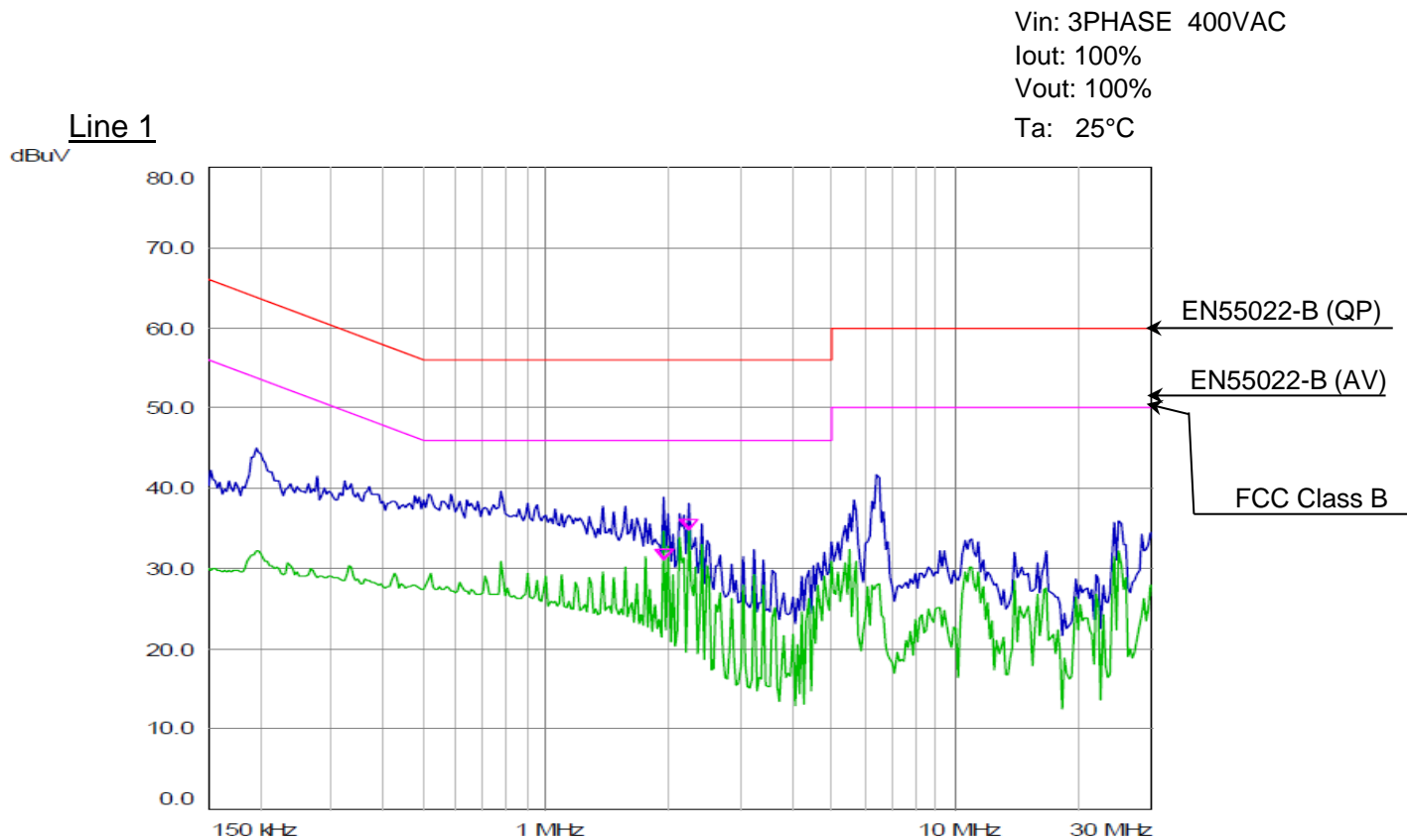
Input voltage/frequency: 3PHASE 400VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dB $\mu$ V	dB $\mu$ V	dB $\mu$ V
L1	2.22672	34.81	46.00	11.19
L2	2.22672	36.35	46.00	9.65
L3	2.13092	43.52	46.00	2.48





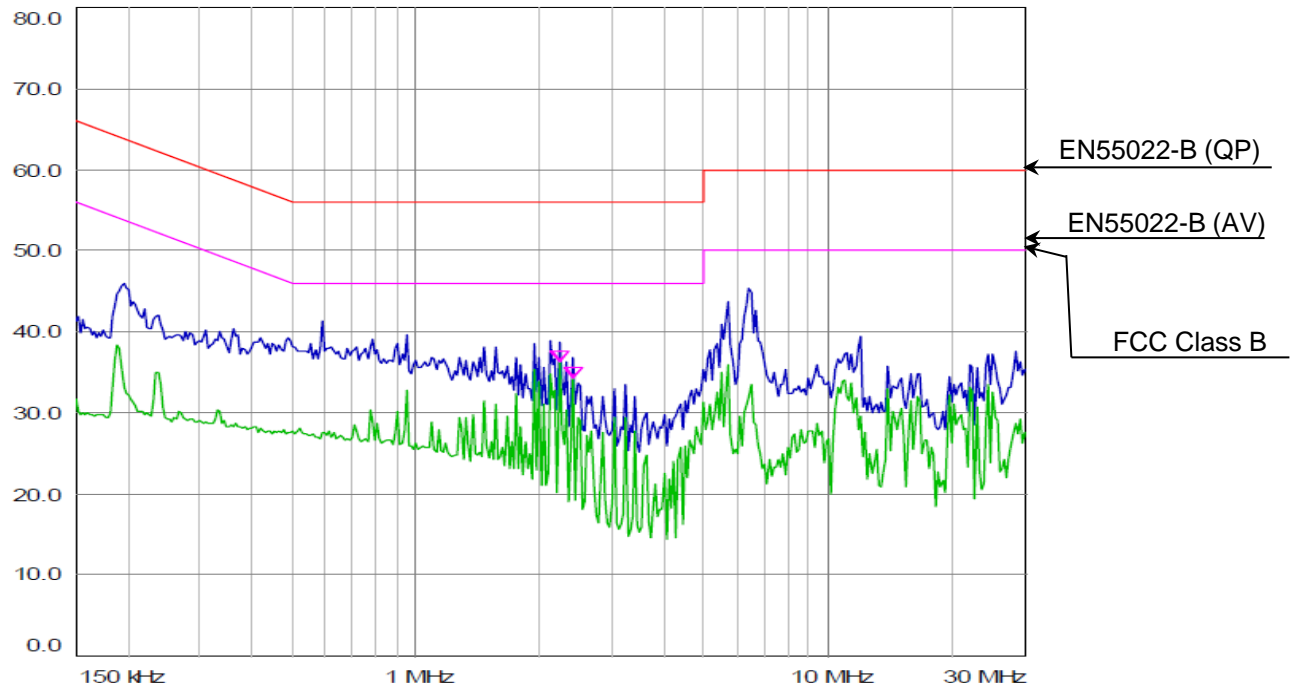
## 2. Test Data

### 2.1 Conducted Emission

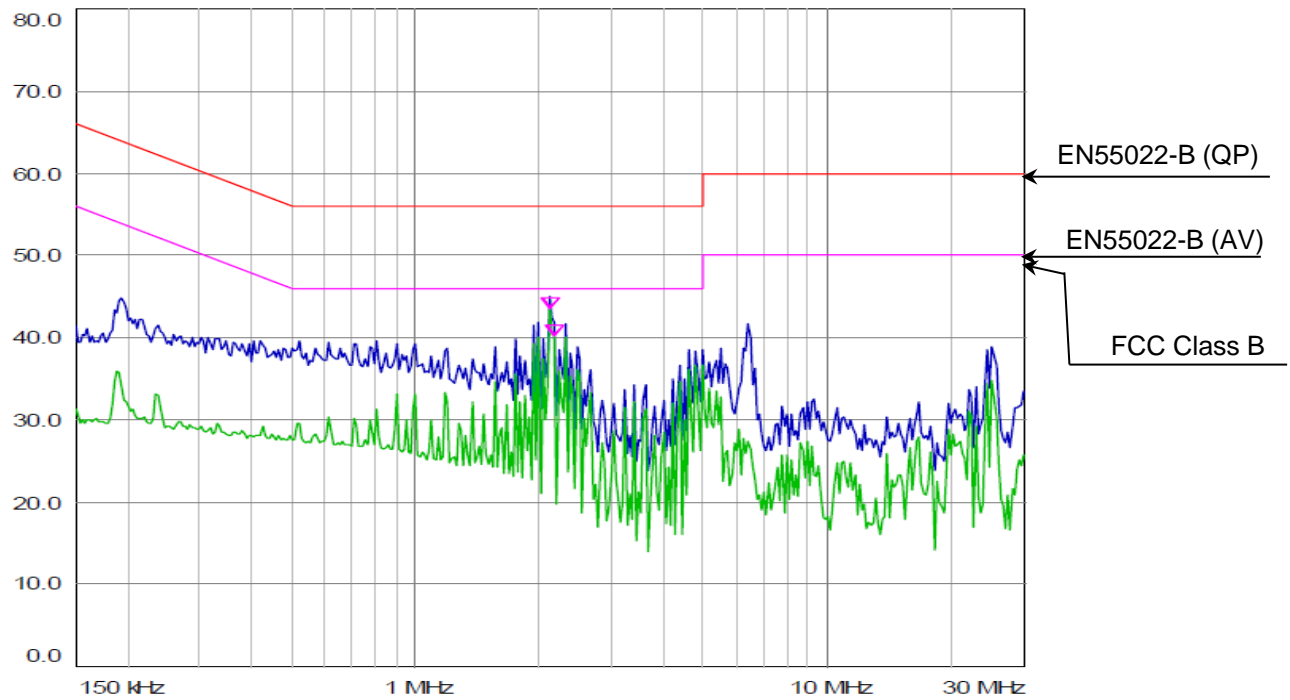
**MODEL: G60-56 3P400**

Vin: 3PHASE 400VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

Line 2  
 dBuV



Line 3  
 dBuV



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G60-56 3P480**

(1) Test condition

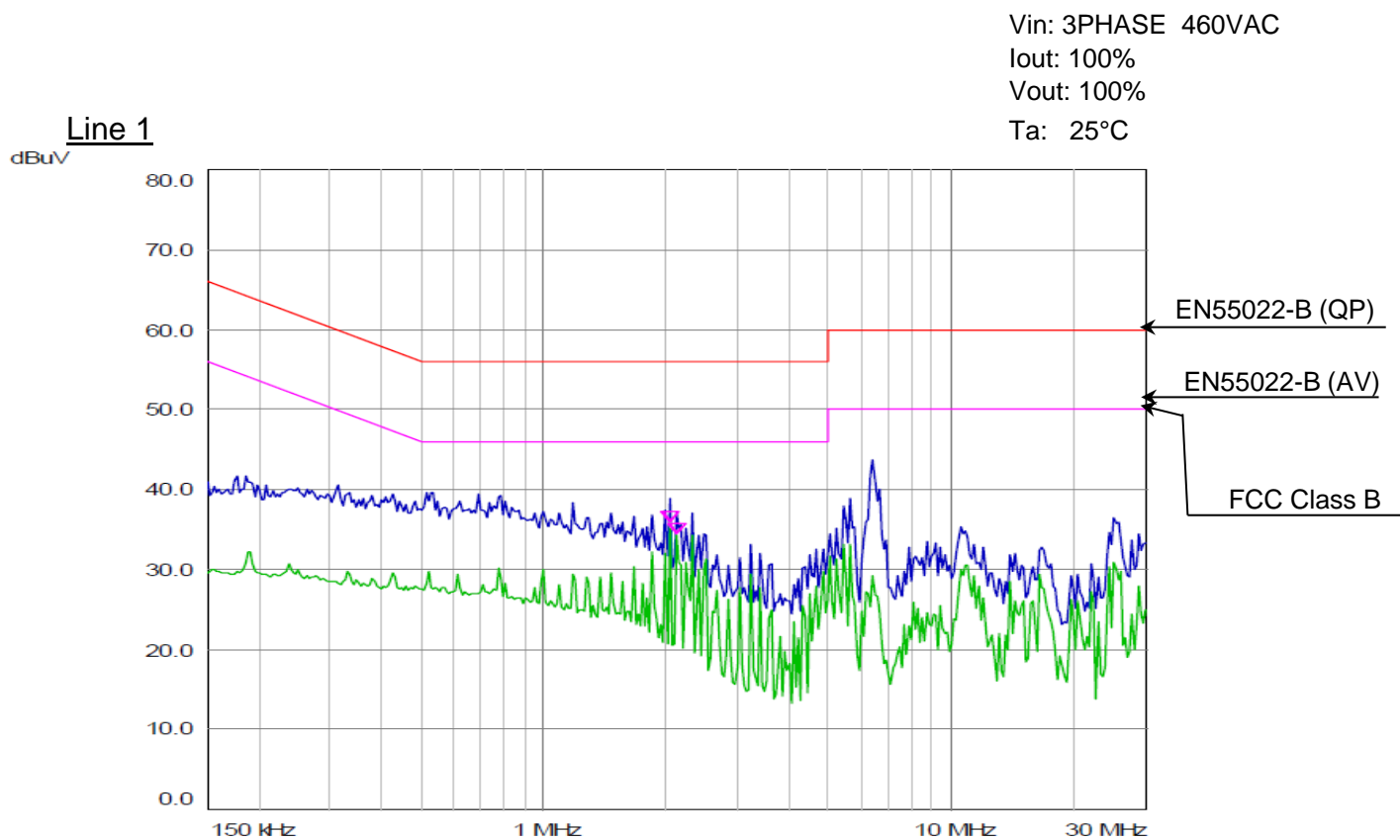
Input voltage/frequency: 3PHASE 460VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dB $\mu$ V	dB $\mu$ V	dB $\mu$ V
L1	2.03720	35.94	46.00	10.06
L2	2.03720	36.93	46.00	9.07
L3	2.03720	42.73	46.00	3.27



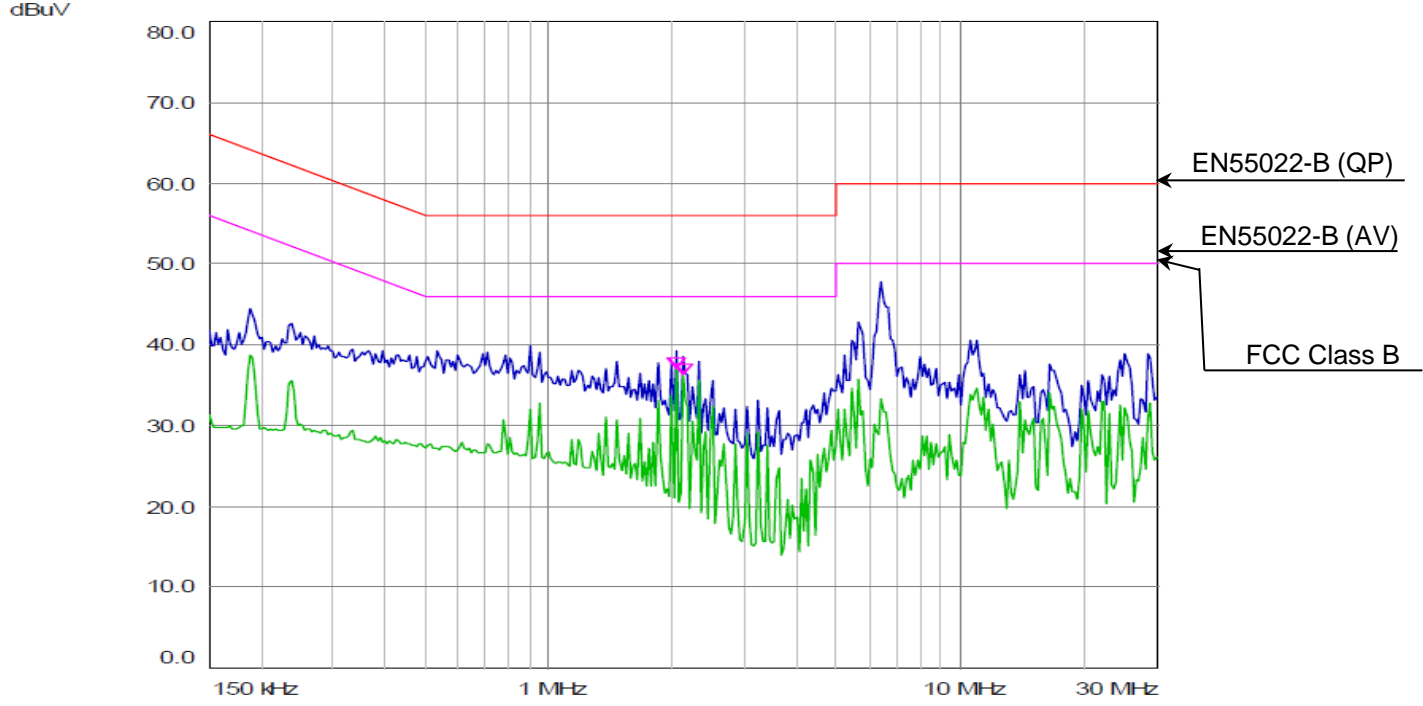
## 2. Test Data

### 2.1 Conducted Emission

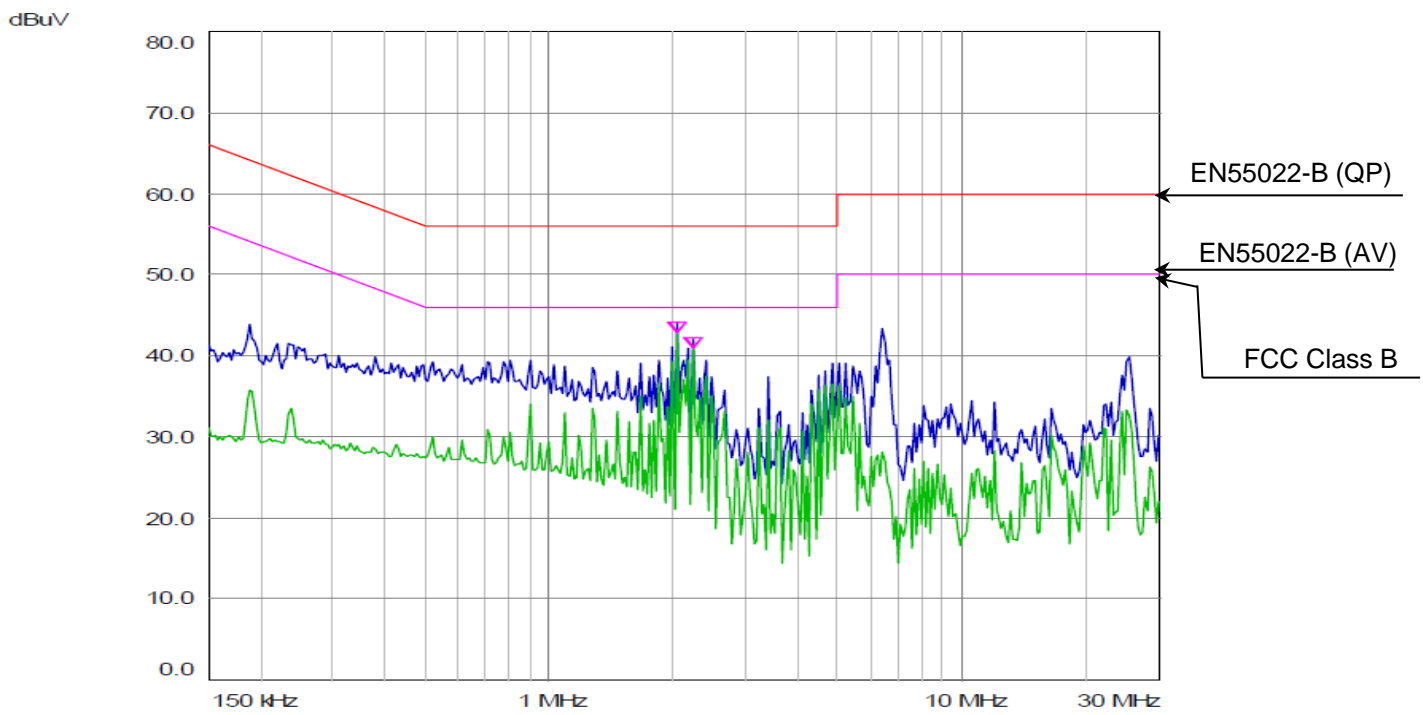
**MODEL: G60-56 3P480**

Vin: 3PHASE 460VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

Line 2



Line 3



## 2. Test Data

### 2.1 Conducted Emission

<b>MODEL: G150-22.5 1P200</b>
-------------------------------

(1) Test condition

Input voltage/frequency: 1PHASE 230VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteference wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dB $\mu$ V	dB $\mu$ V	dB $\mu$ V
L	25.72101	44.95	50.00	5.05
N	25.72101	44.25	50.00	5.75

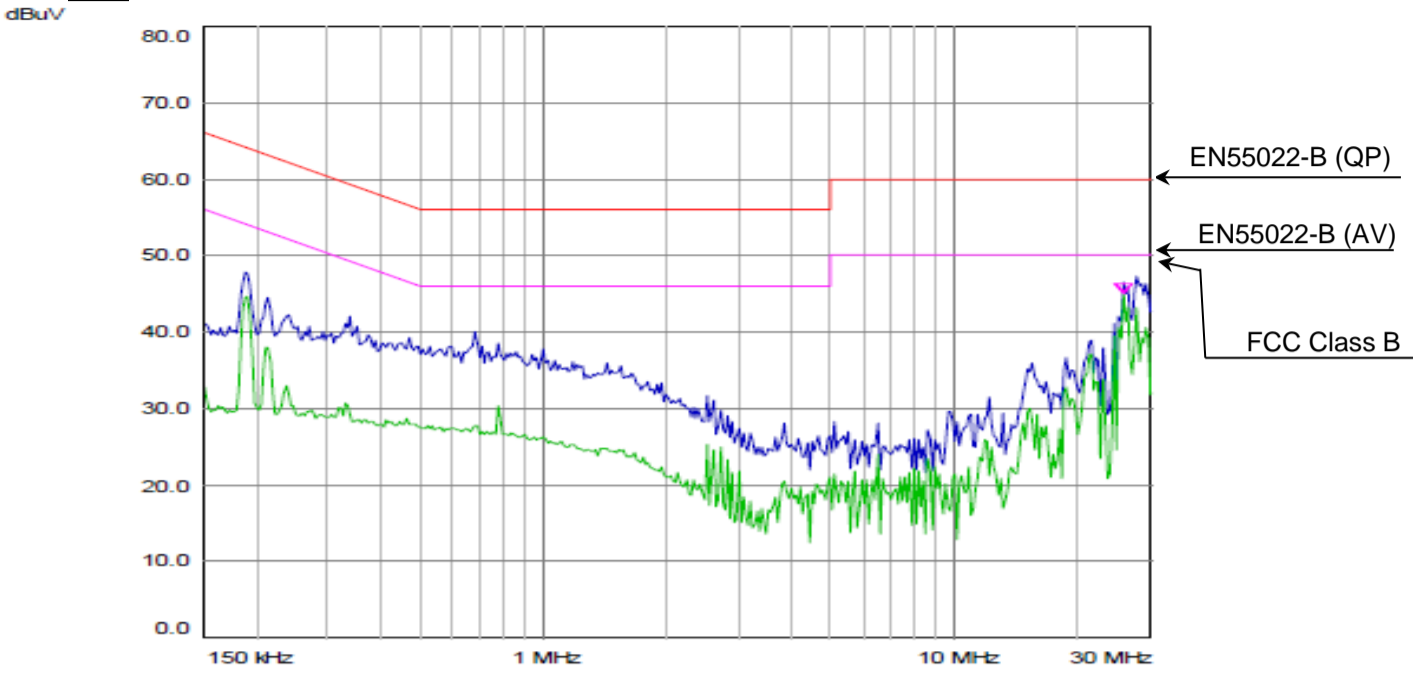
## 2. Test Data

### 2.1 Conducted Emission

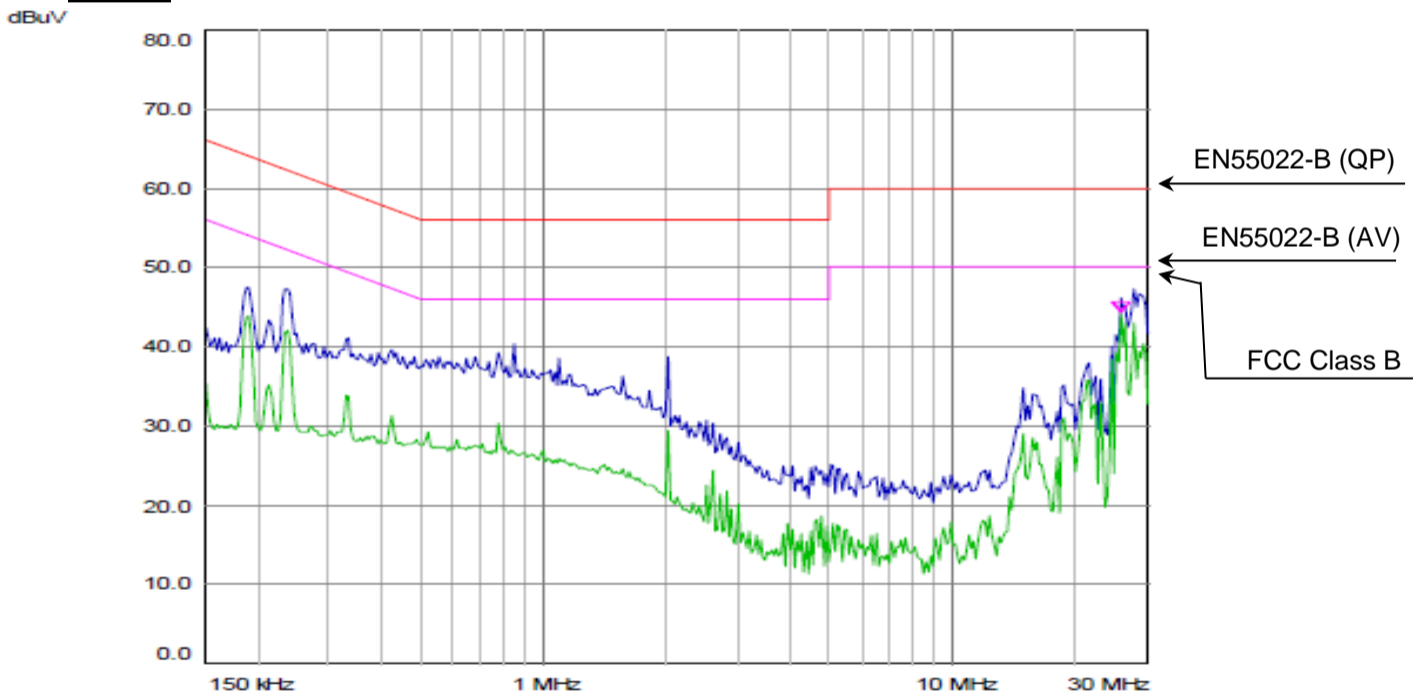
**MODEL: G150-22.5 1P200**

Conditions: Vin: 1PHASE 230VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

#### Line



#### Neutral



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G150-22.5 3P200**

(1) Test condition

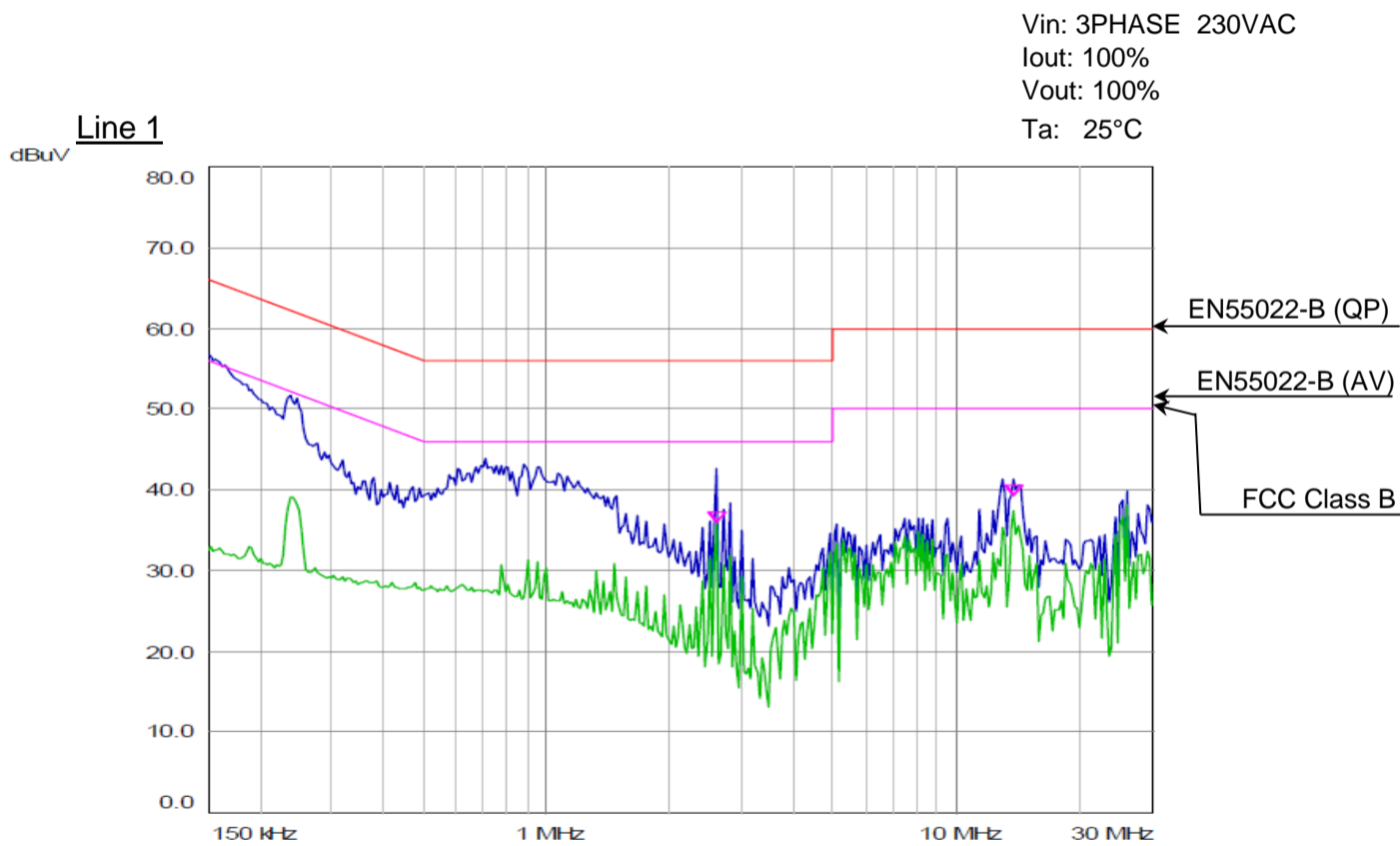
Input voltage/frequency: 3PHASE 230VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
	MHz	AV dBμV	AV dBμV	AV dBμV
L1	2.60505	35.94	46.00	10.06
L2	13.92402	40.87	50.00	9.13
L3	26.24035	42.31	50.00	7.69

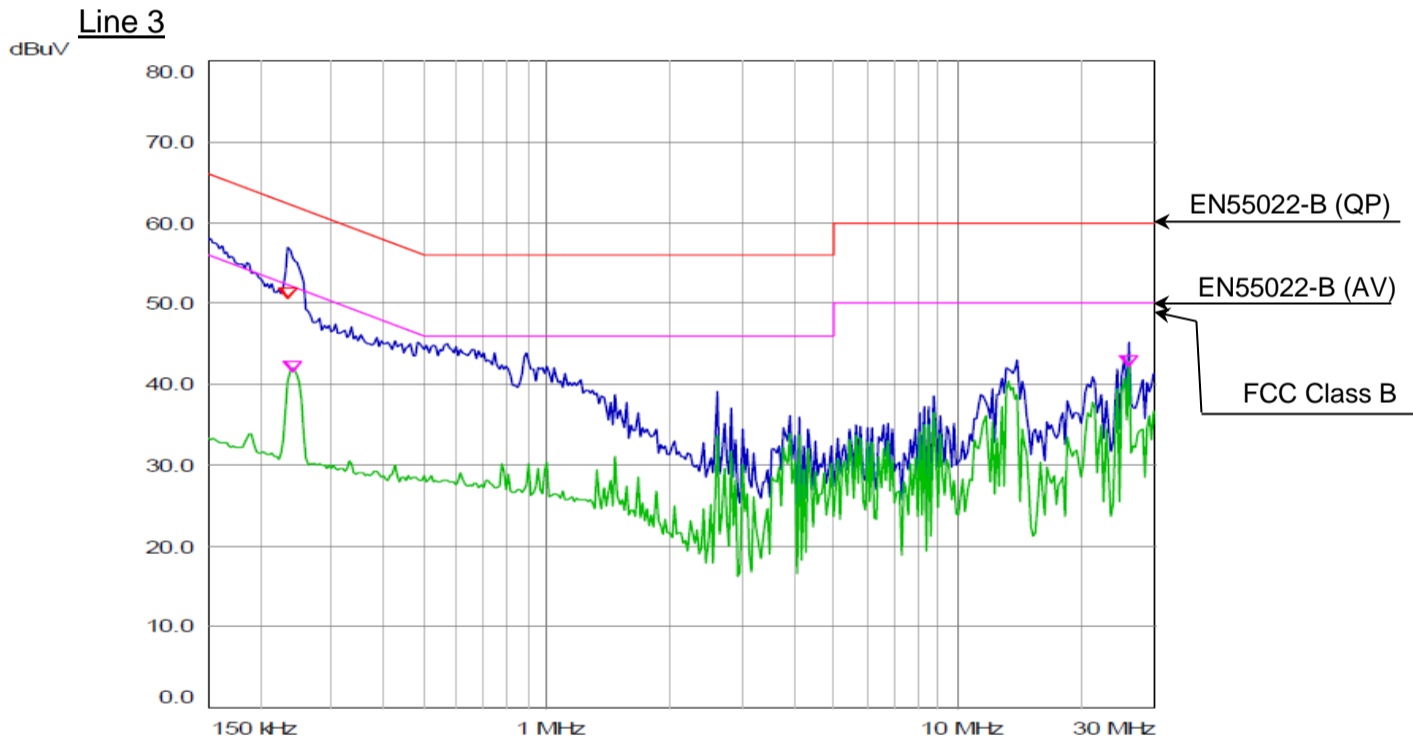
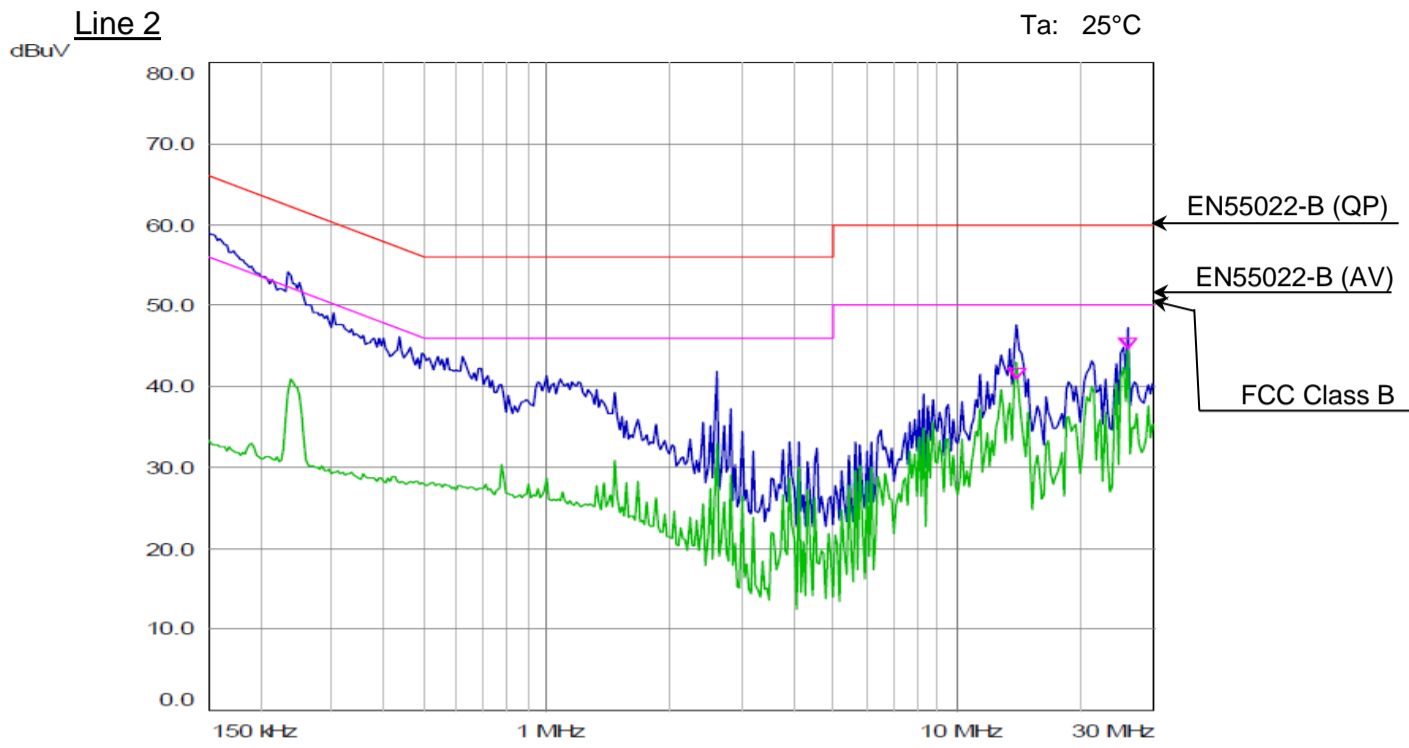


## 2. Test Data

### 2.1 Conducted Emission

MODEL: G150-22.5 3P200

Vin: 3PHASE 230VAC  
Iout: 100%  
Vout: 100%  
Ta: 25°C



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G150-22.5 3P400**

(1) Test condition

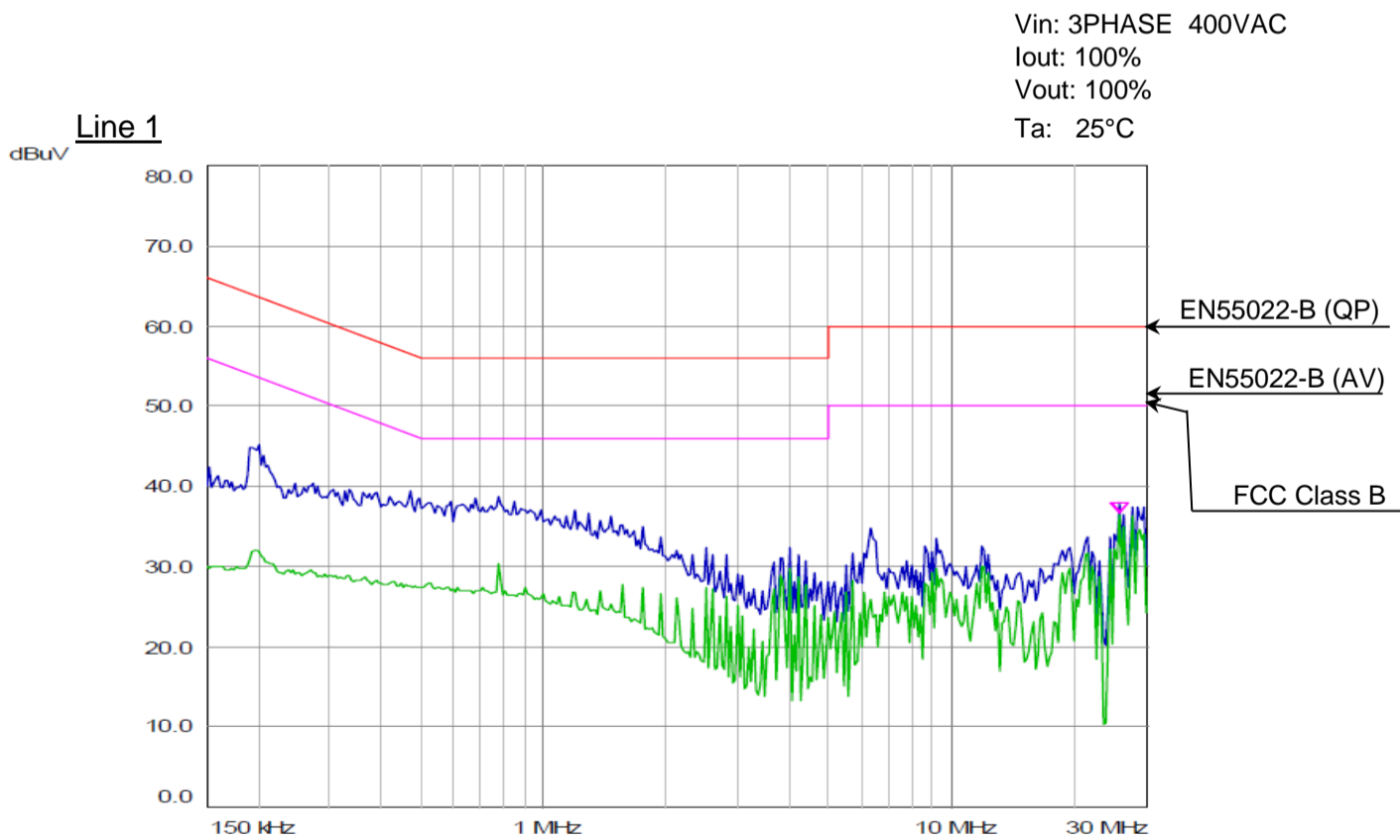
Input voltage/frequency: 3PHASE 400VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
	MHz	AV	AV	AV
		dBμV	dBμV	dBμV
L1	25.72101	36.64	50.00	13.36
L2	25.72101	43.17	50.00	6.83
L3	25.72101	41.75	50.00	8.25





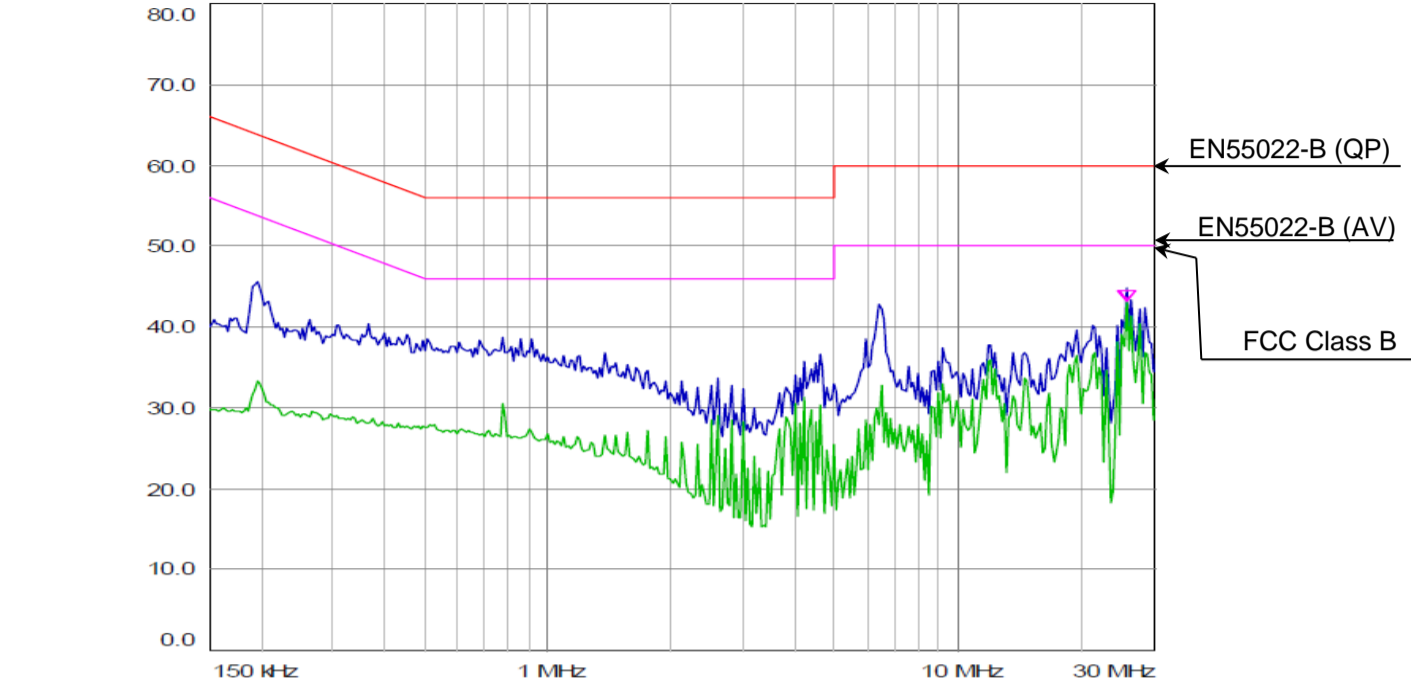
## 2. Test Data

### 2.1 Conducted Emission

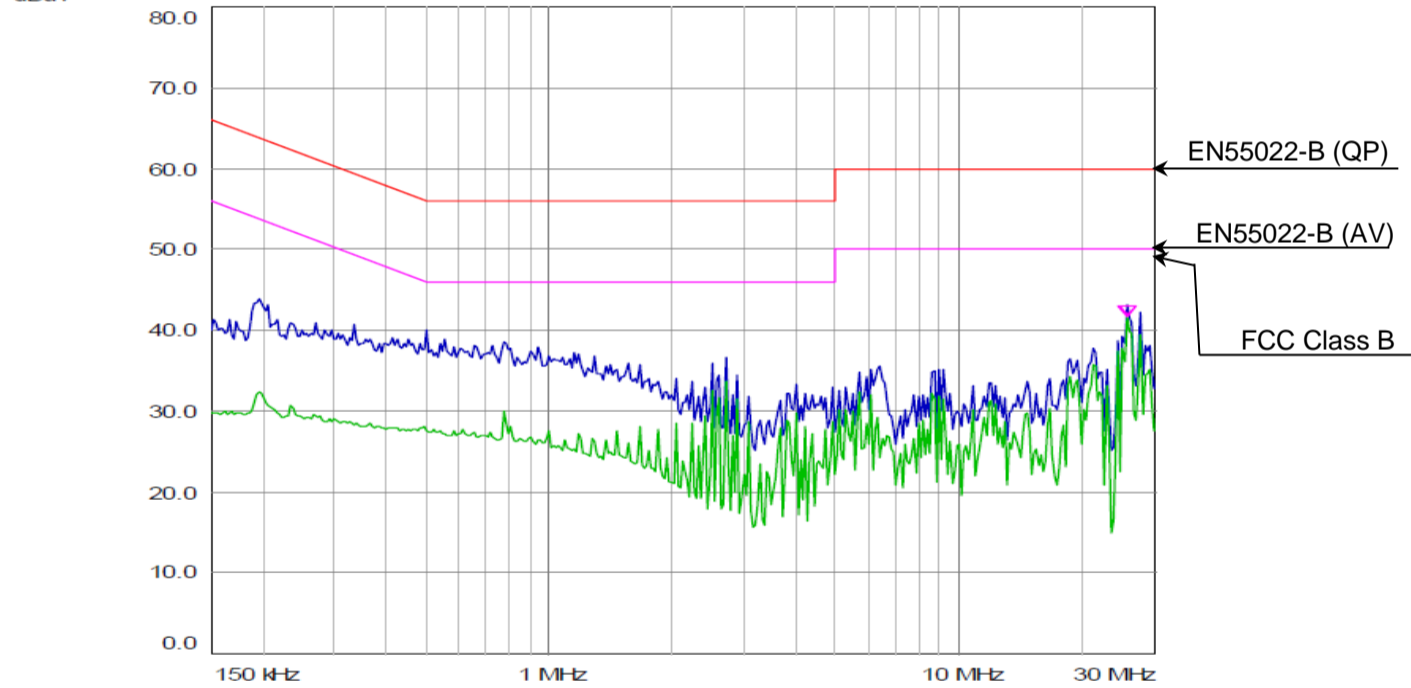
**MODEL: G150-22.5 3P400**

Vin: 3PHASE 400VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

Line 2



Line 3



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G150-22.5 3P480**

(1) Test condition

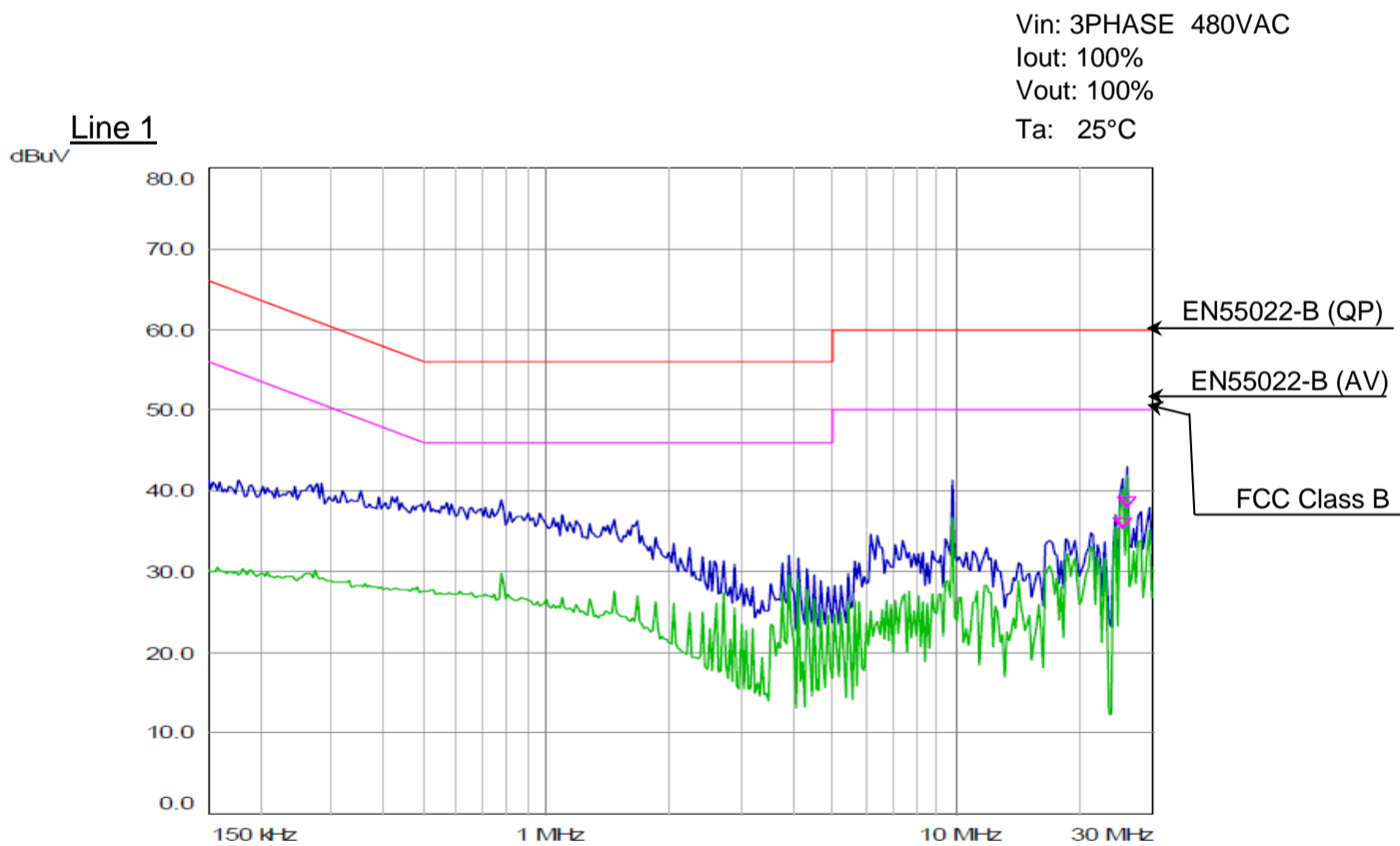
Input voltage/frequency: 3PHASE 480VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBμV	dBμV	dBμV
L1	26.00536	37.93	50.00	12.07
L2	26.00536	44.27	50.00	5.73
L3	26.00536	42.94	50.00	7.06

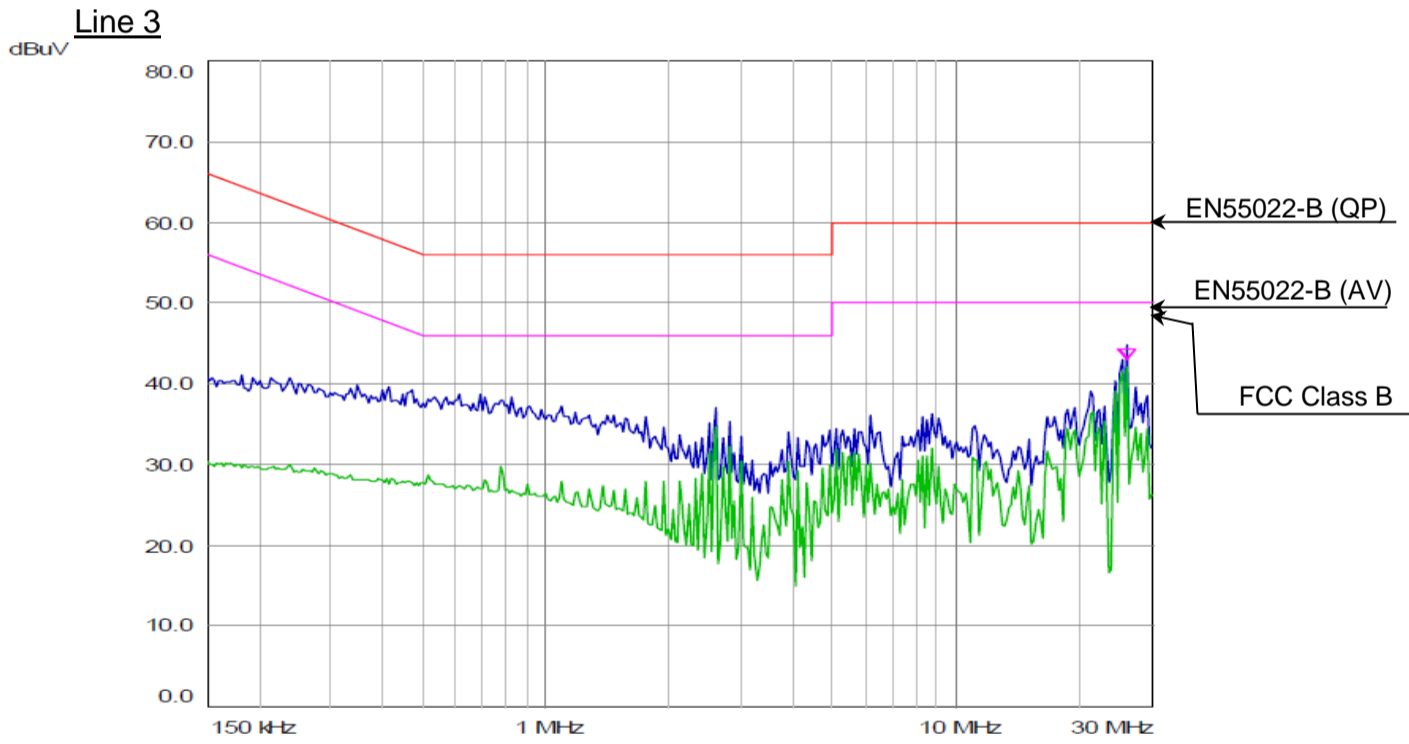
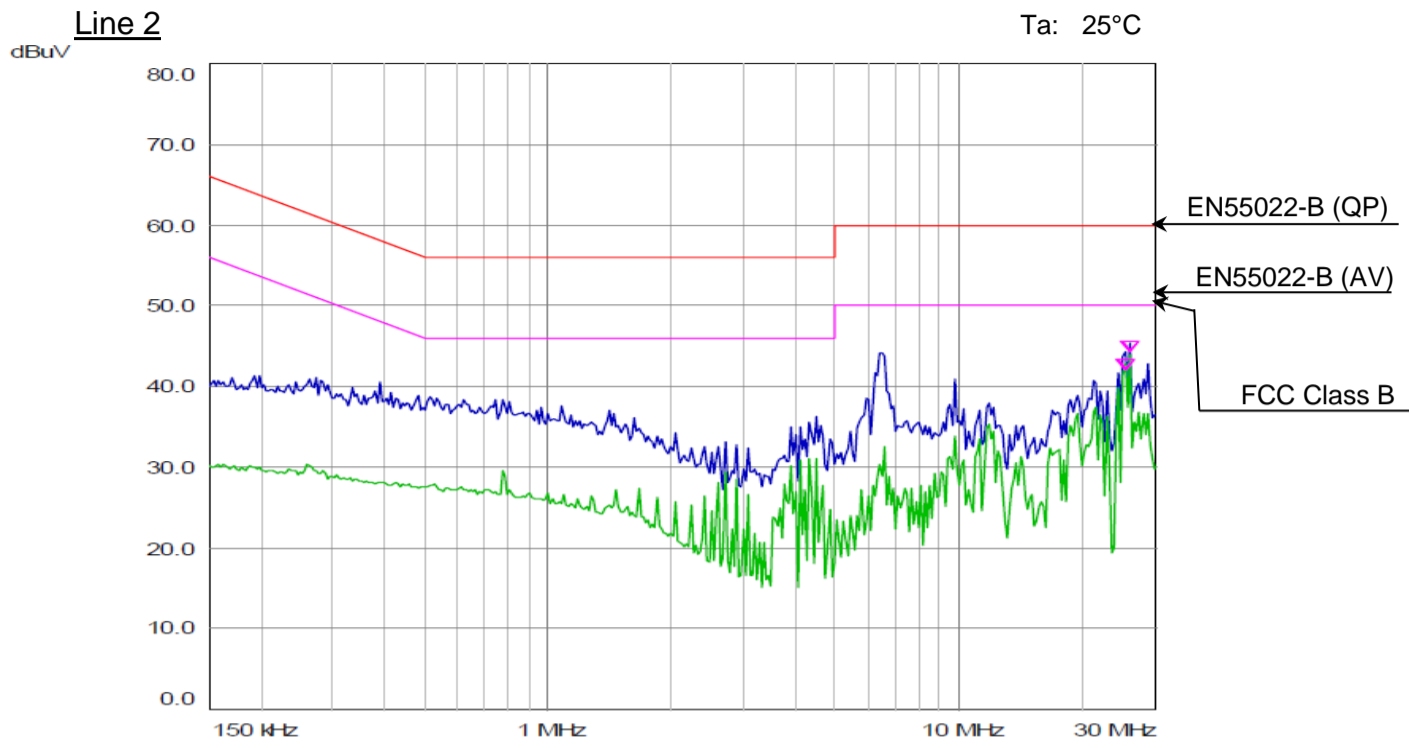


## 2. Test Data

### 2.1 Conducted Emission

MODEL: G150-22.5 3P480

Vin: 3PHASE 480VAC  
Iout: 100%  
Vout: 100%  
Ta: 25°C



## 2. Test Data

### 2.1 Conducted Emission

<b>MODEL: G600-5.6 1P200</b>
------------------------------

#### (1) Test condition

Input voltage/frequency: 1PHASE 100VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

#### (2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

#### Inteference wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBμV	dBμV	dBμV
L	0.18934	43.10	54.07	10.97
N	0.23637	47.47	52.22	4.75

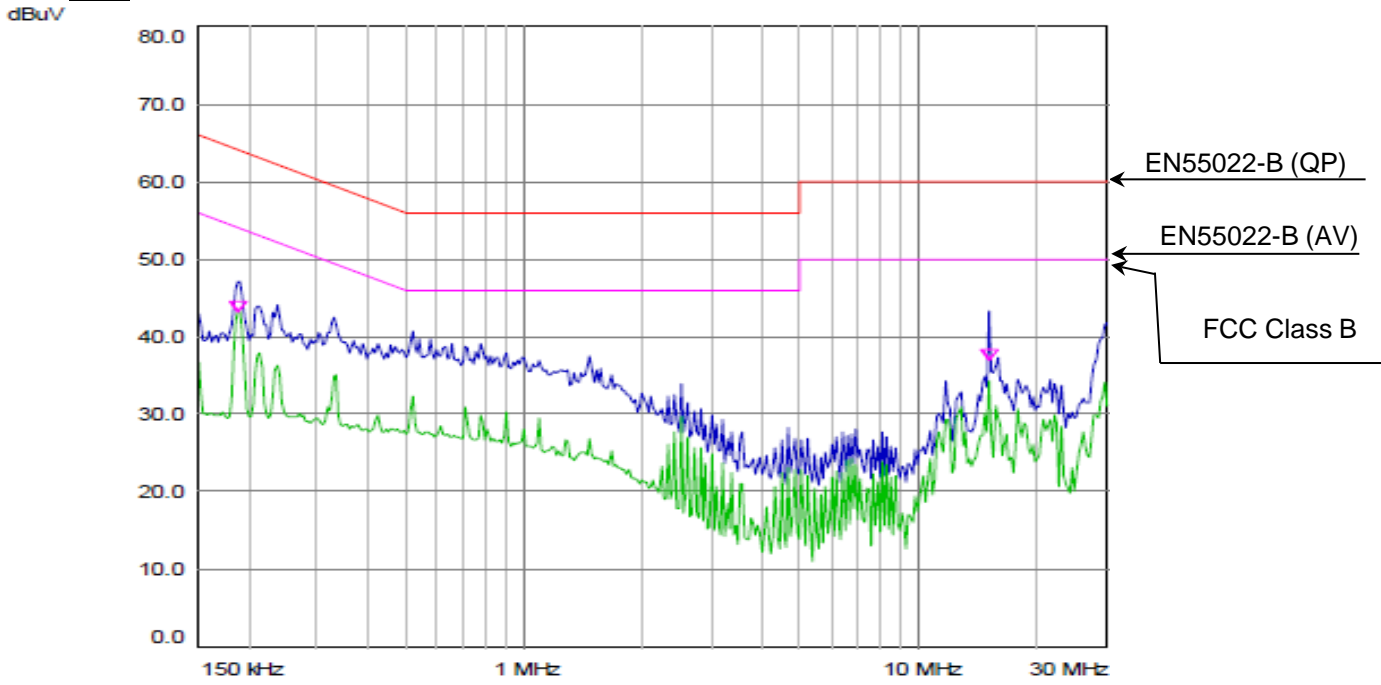
## 2. Test Data

### 2.1 Conducted Emission

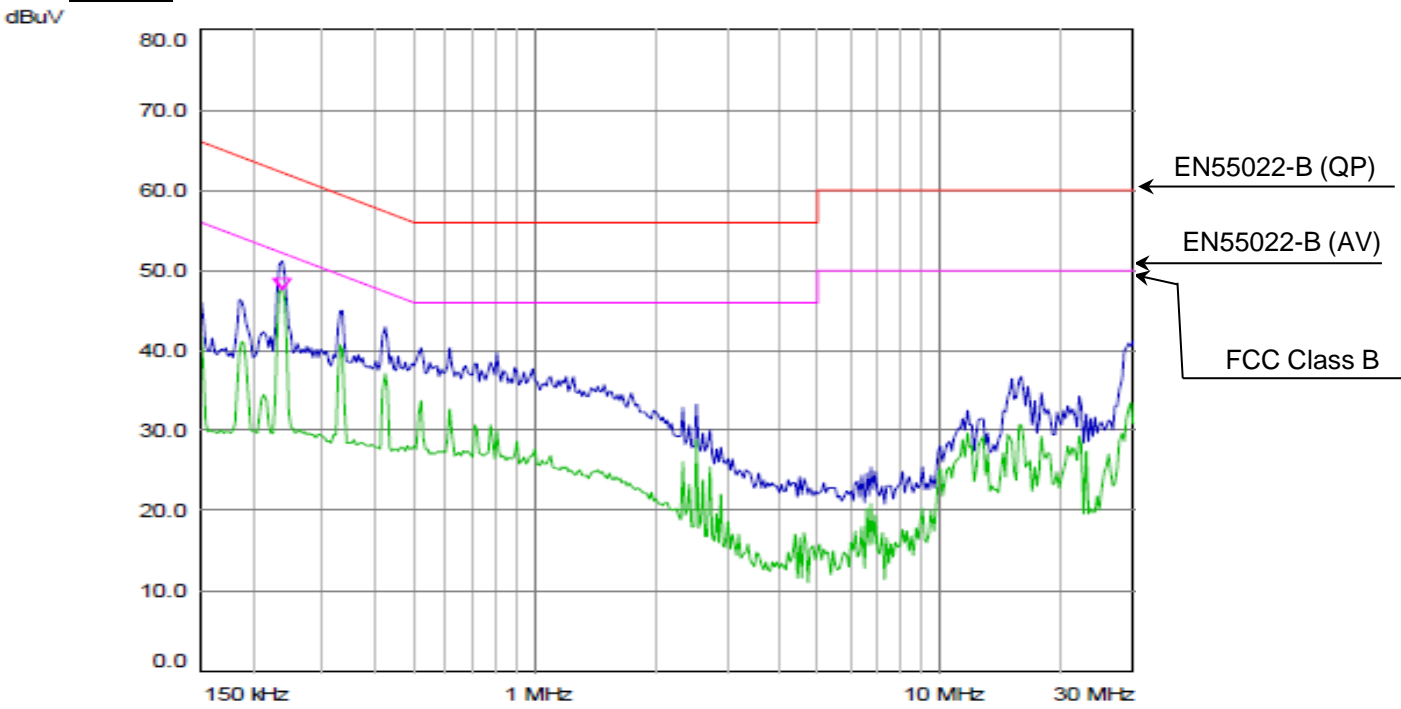
MODEL: G600-5.6 1P200

Conditions: Vin: 1PHASE 100VAC  
Iout: 100%  
Vout: 100%  
Ta: 25°C

#### Line



#### Neutral



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G600-5.6 3P200**

(1) Test condition

Input voltage/frequency: 3PHASE 230VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

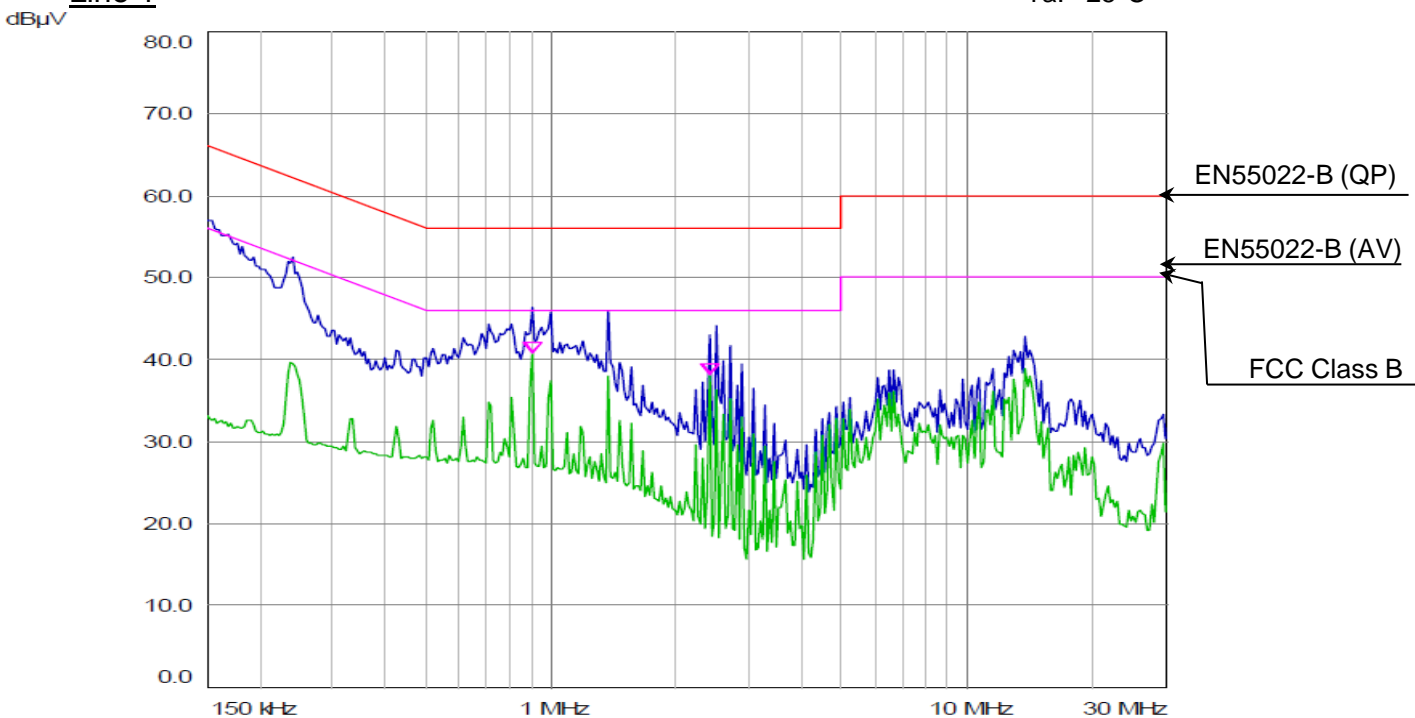
Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Intefereance wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBμV	dBμV	dBμV
L1	0.90121	40.81	46.00	5.19
L2	13.82694	43.45	50.00	6.55
L3	4.78339	39.70	46.00	6.30

Vin: 3PHASE 230VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

Line 1



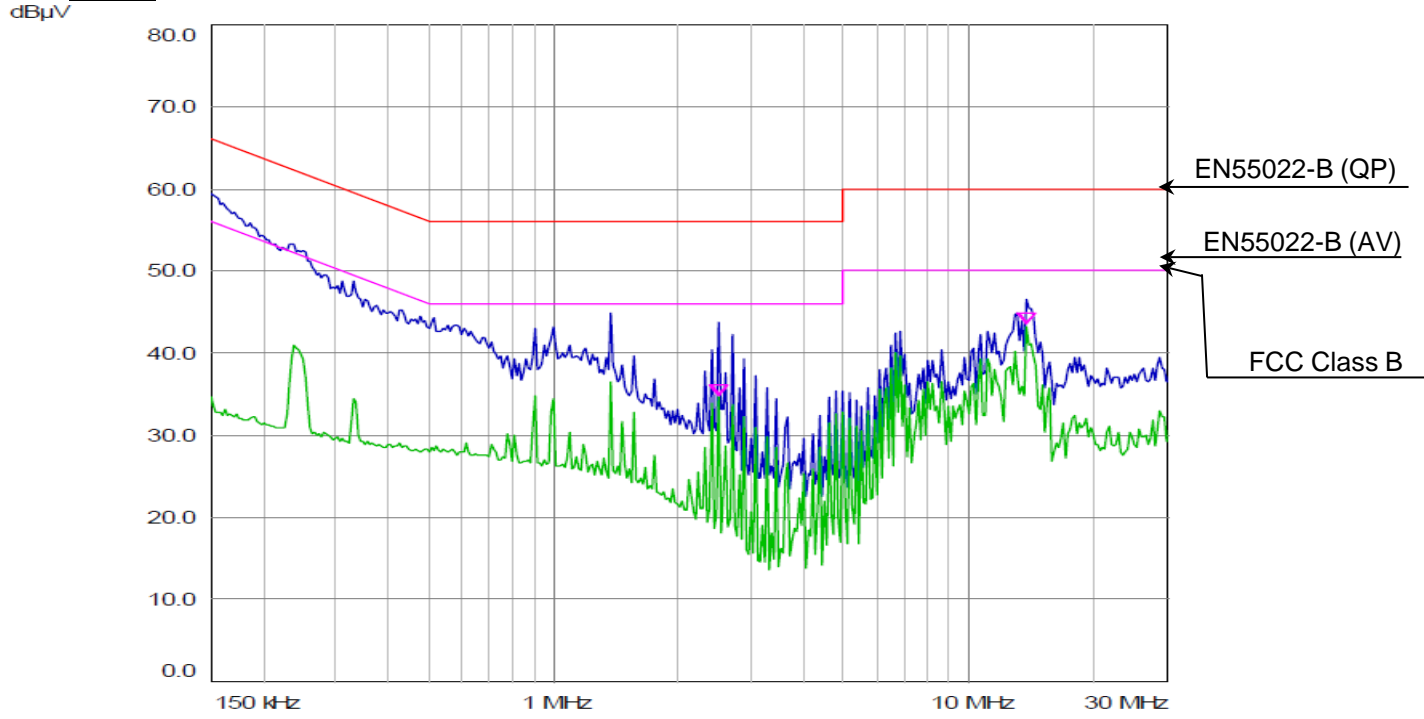
## 2. Test Data

### 2.1 Conducted Emission

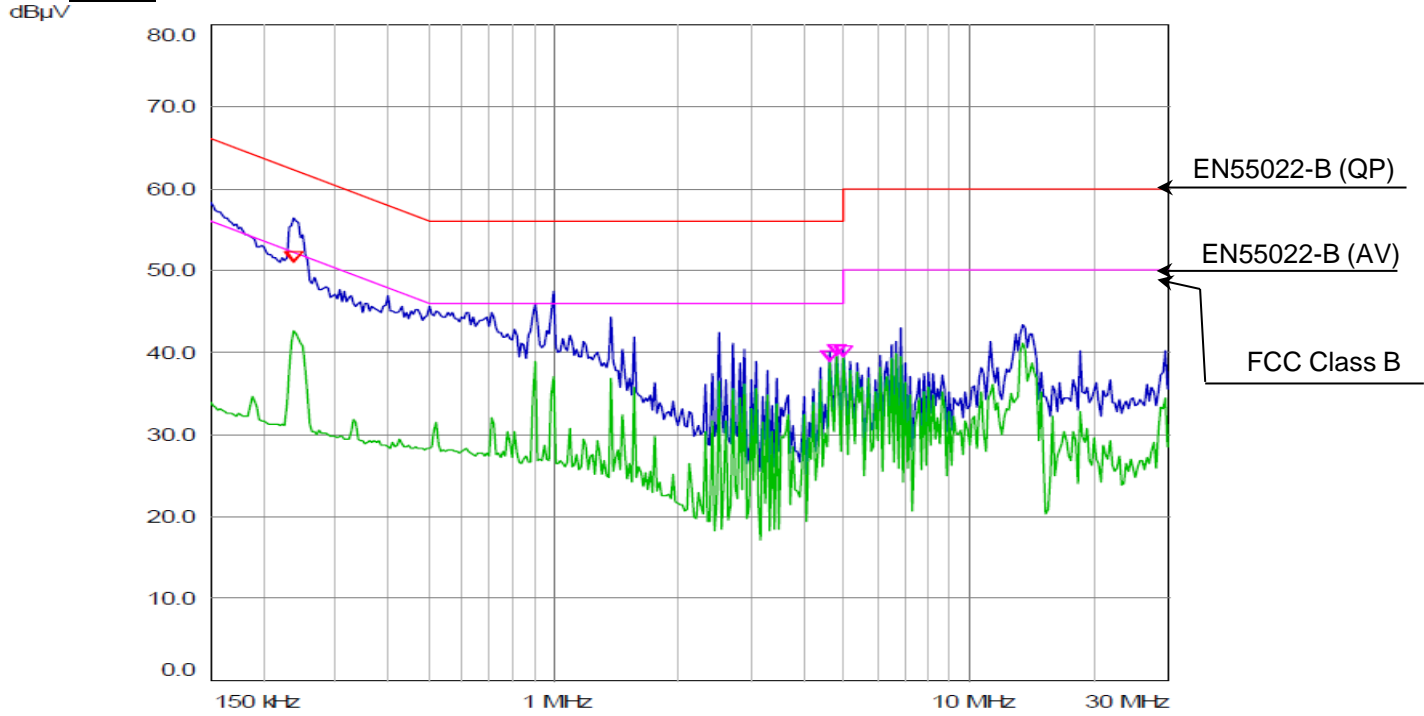
**MODEL: G600-5.6 3P200**

Vin: 3PHASE 230VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C

Line 2



Line 3



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G600-5.6 3P400**

(1) Test condition

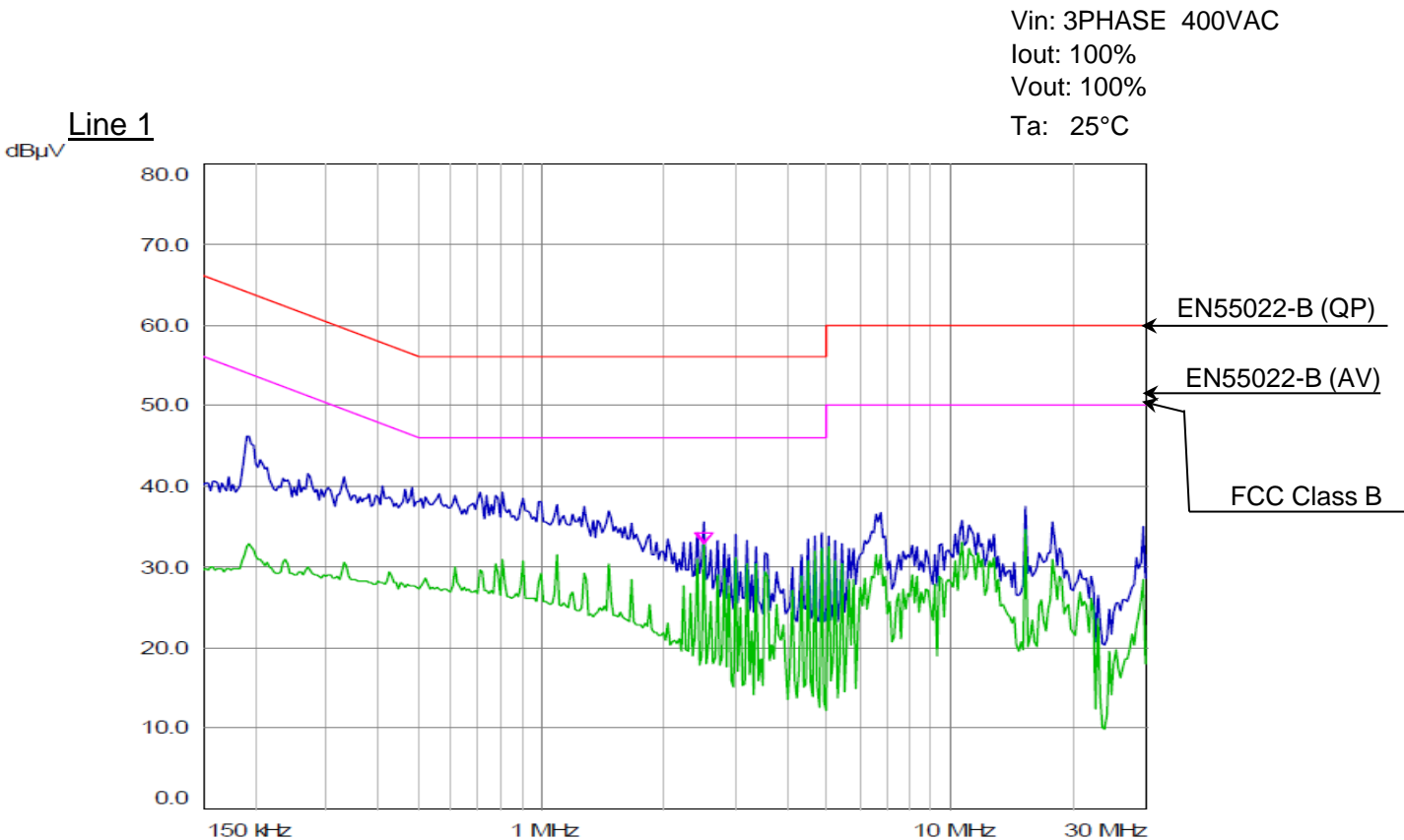
Input voltage/frequency: 3PHASE 400VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Intefereance wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBμV	dBμV	dBμV
L1	2.51047	32.80	46.00	13.20
L2	2.51047	32.88	46.00	13.12
L3	2.51047	37.60	46.00	8.40



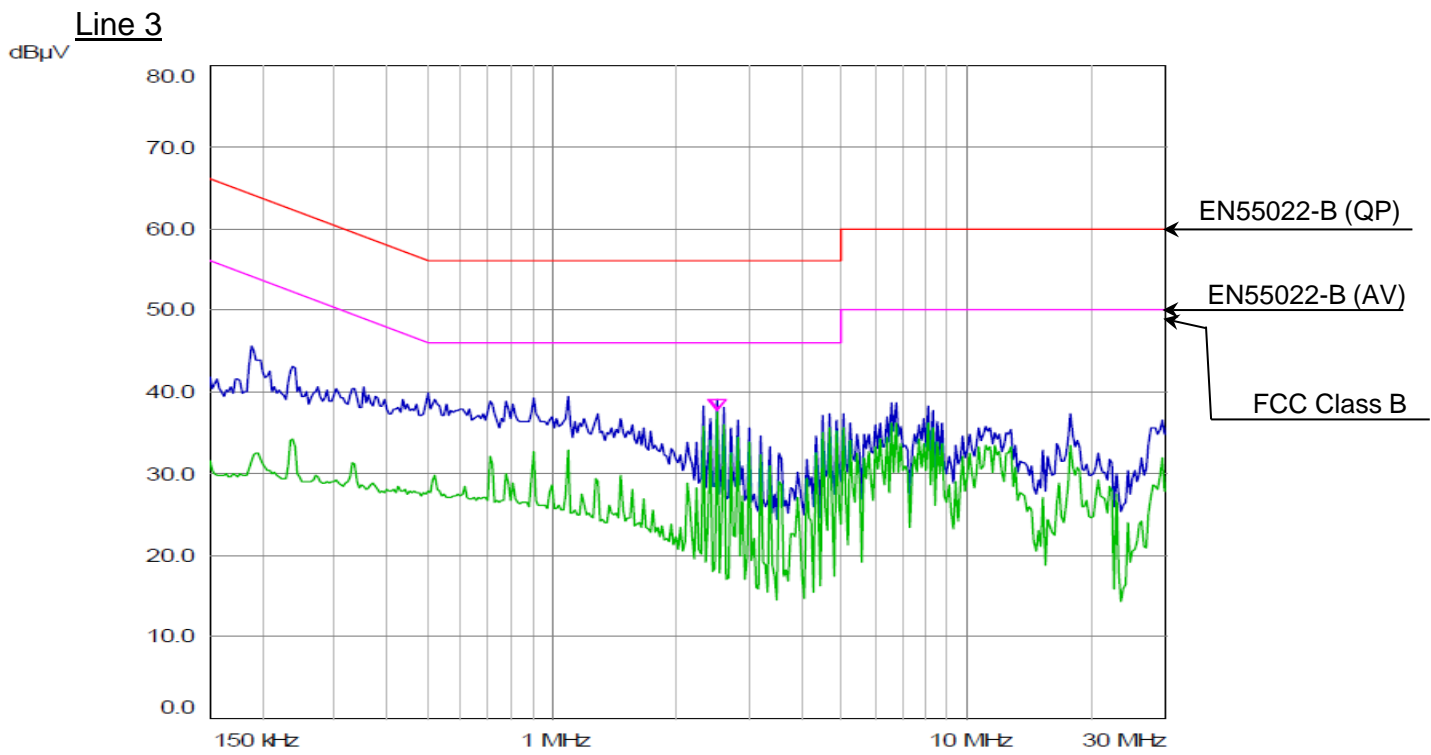
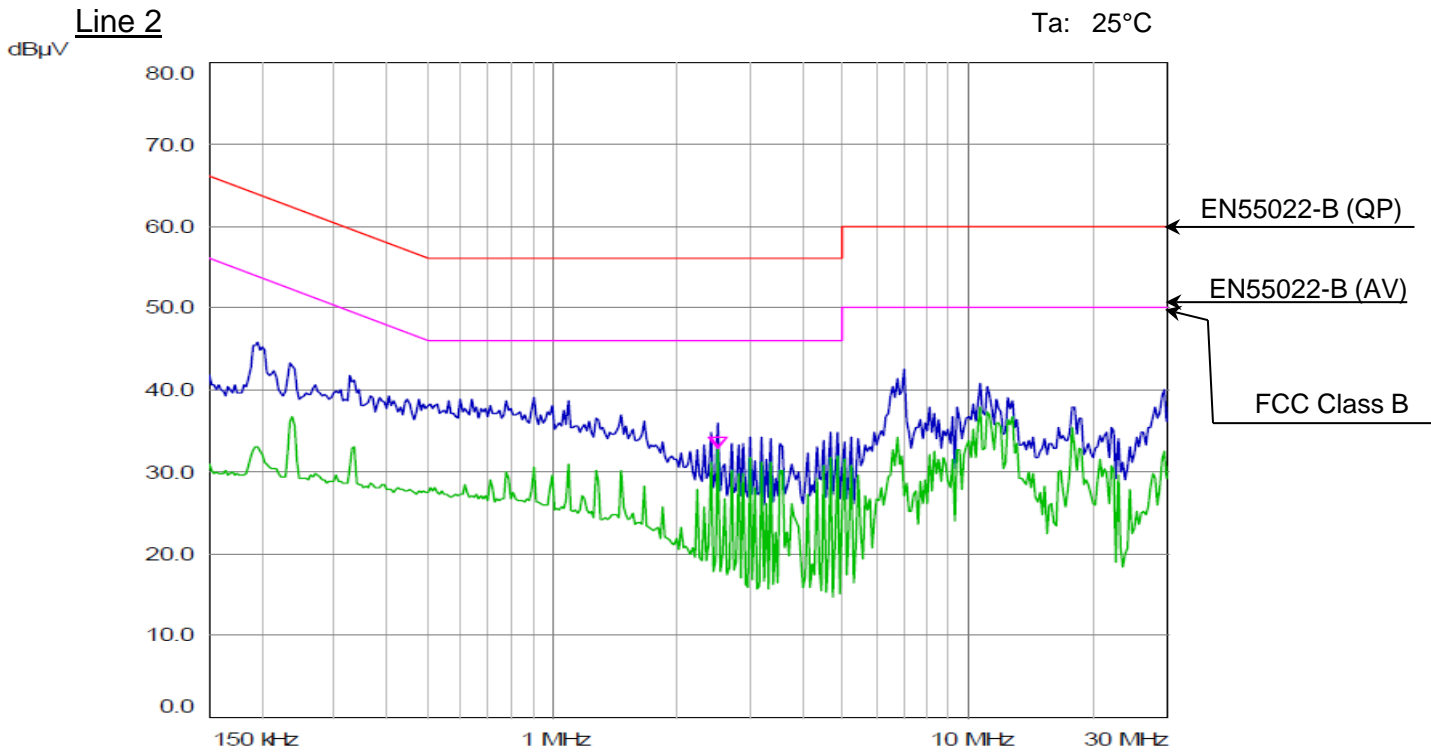


## 2. Test Data

### 2.1 Conducted Emission

MODEL: G600-5.6 3P400

Vin: 3PHASE 400VAC  
 Iout: 100%  
 Vout: 100%  
 Ta: 25°C



## 2. Test Data

### 2.1 Conducted Emission

**MODEL: G600-5.6 3P480**

(1) Test condition

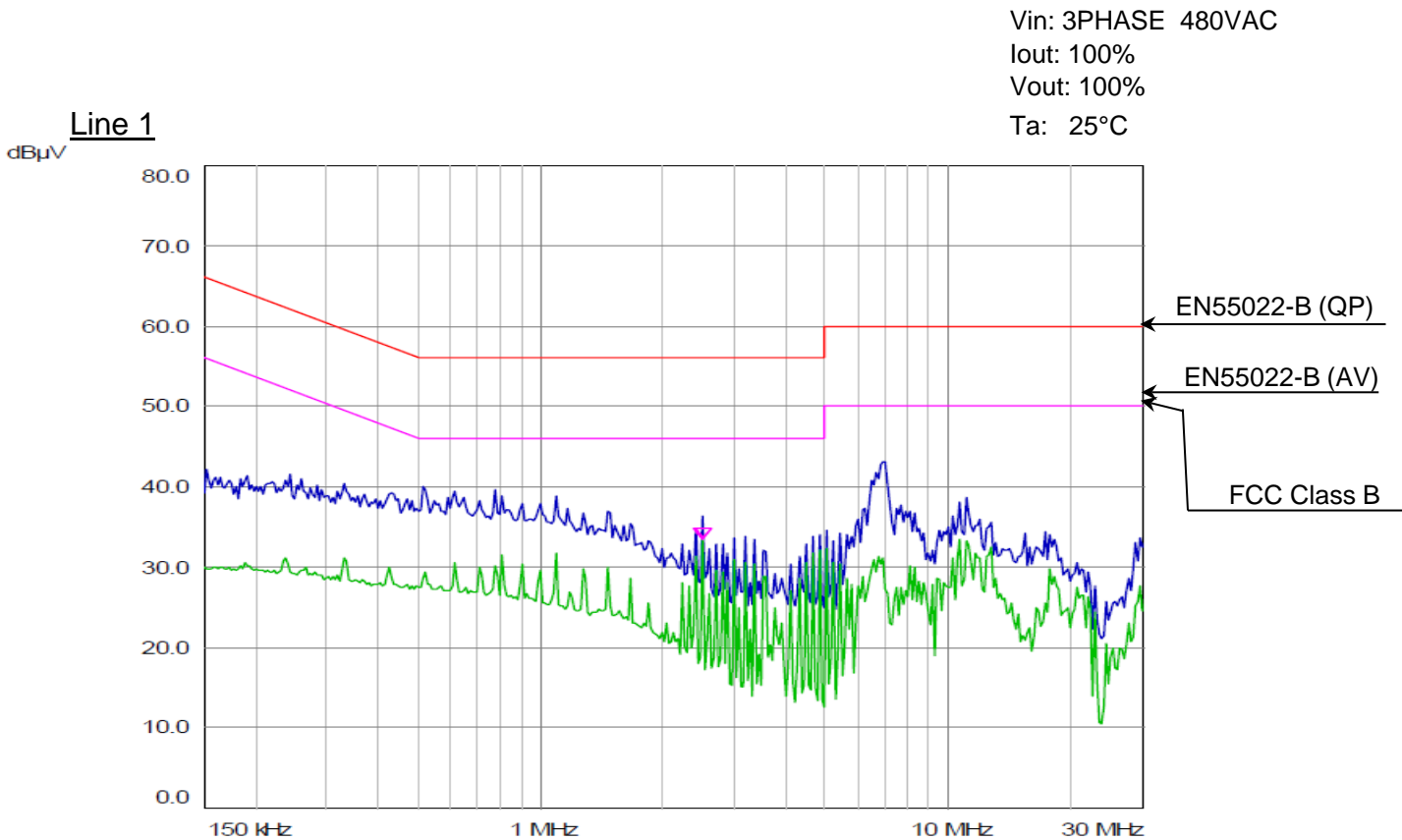
Input voltage/frequency: 3PHASE 480VAC/50Hz  
 Output current: 100%  
 Output voltage: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, IEC61204-3

(2) Test results

Under the above test condition, emission level was below the limit line.  
 Refer to the following interference wave list and next page for spectrum data.

Inteferece wave list

FCC Class B, IEC61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBμV	dBμV	dBμV
L1	2.51047	33.40	46.00	12.60
L2	2.51047	32.71	46.00	13.29
L3	2.51047	38.02	46.00	7.98

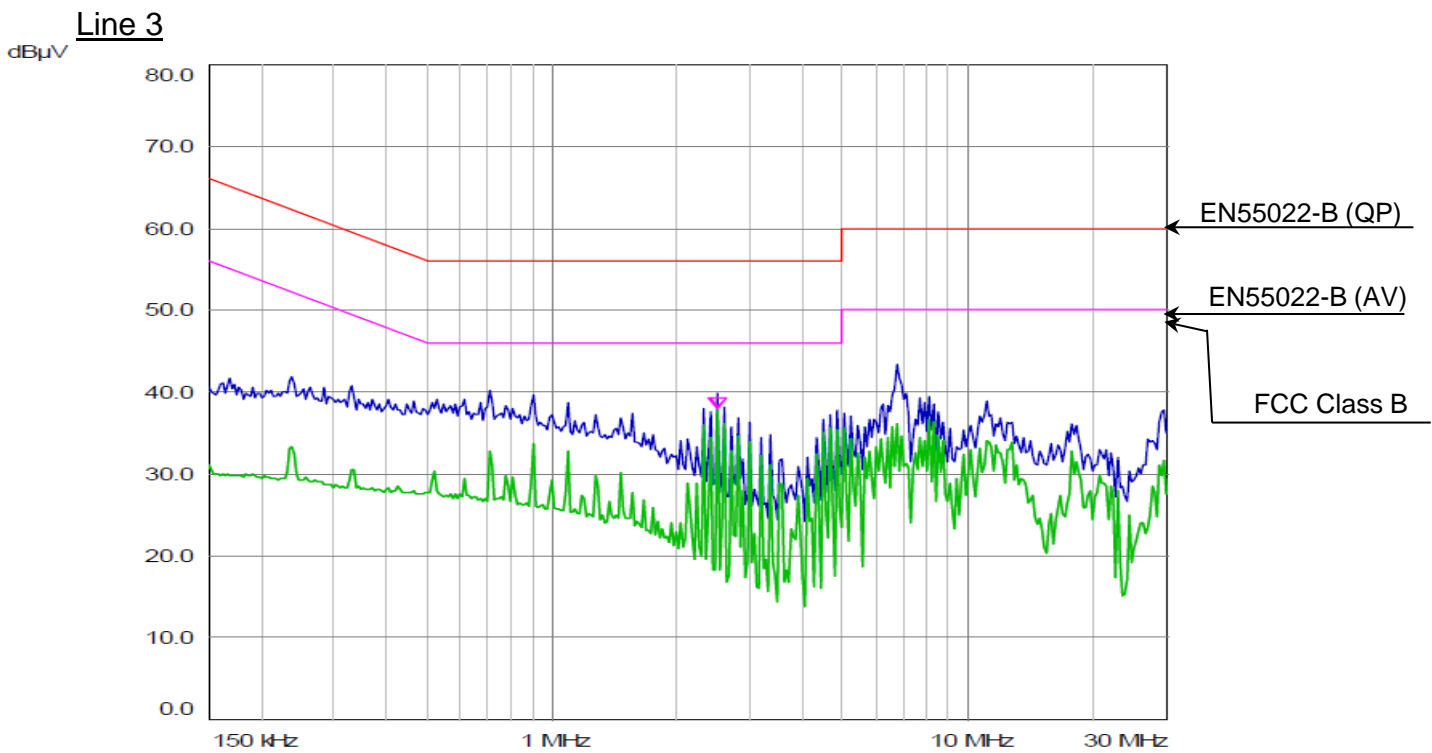
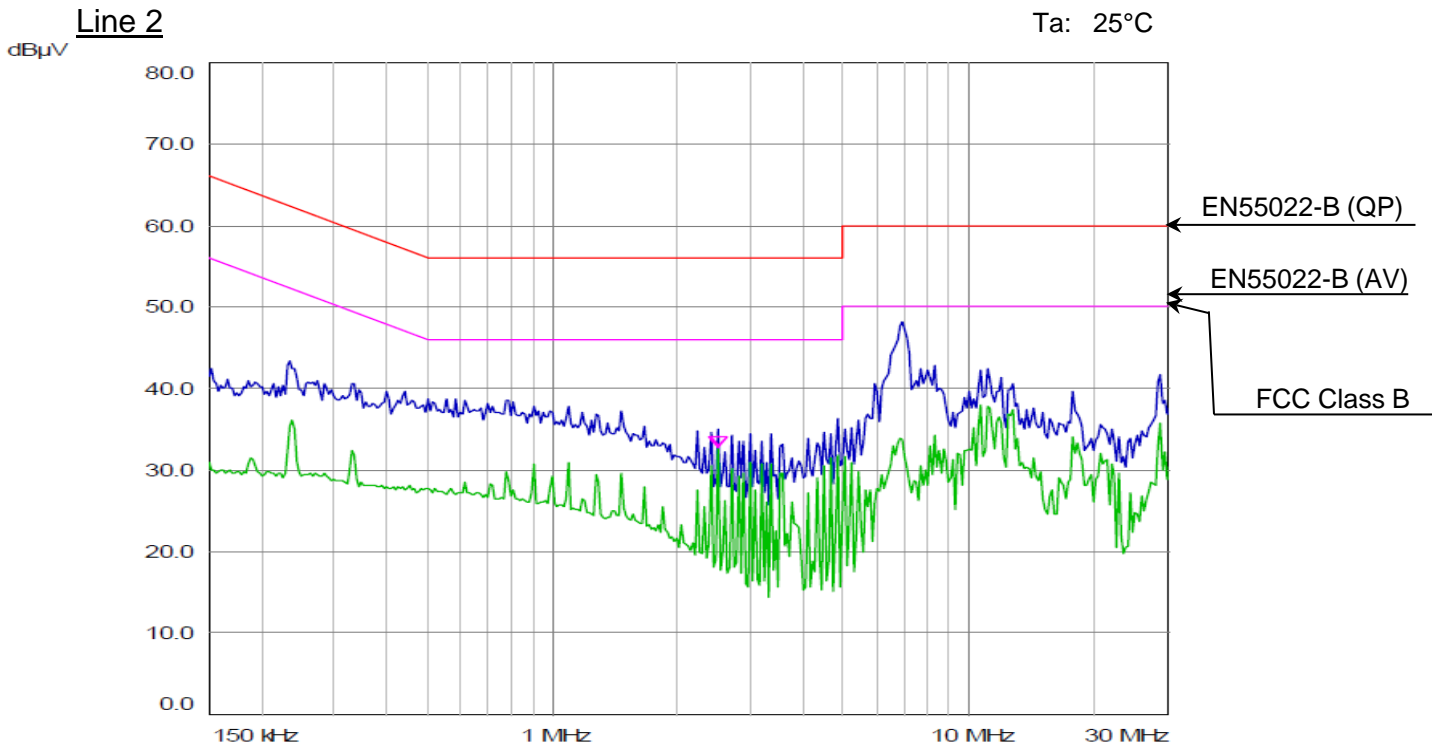


## 2. Test Data

### 2.1 Conducted Emission

MODEL: G600-5.6 3P480

Vin: 3PHASE 480VAC  
Iout: 100%  
Vout: 100%  
Ta: 25°C

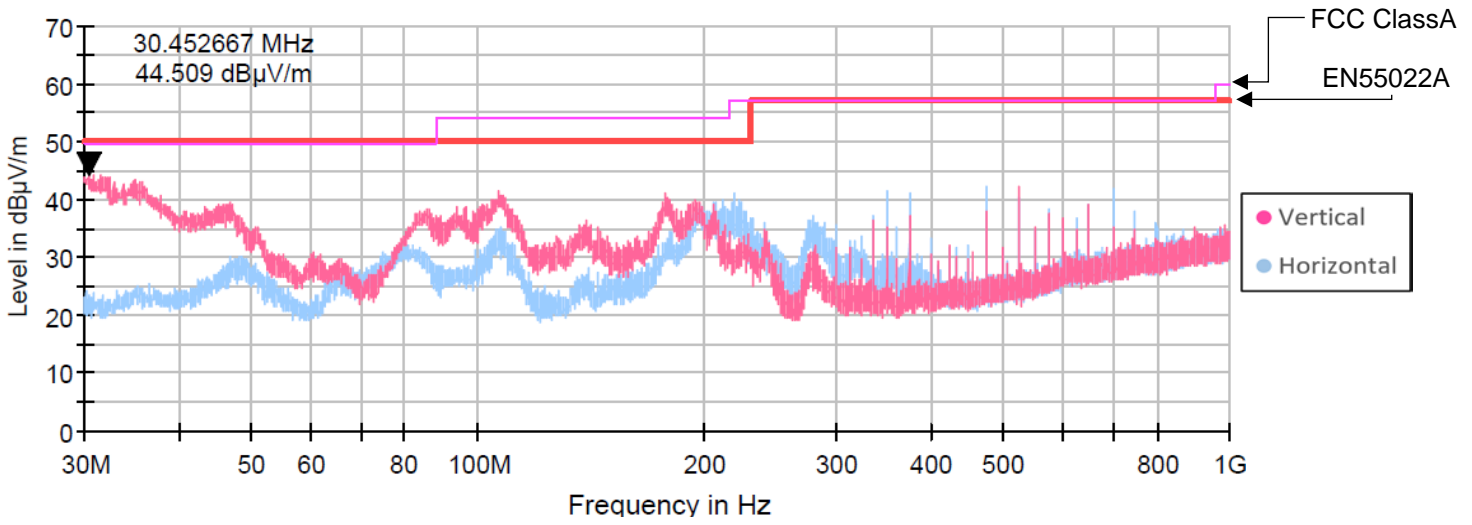


## 2. Test Data

### 2.2 Radiated Emission

**MODEL: G10-340 1P200**

Conditions: Vin: 1PHASE 230VAC  
Iout: 100%  
Vout: 100%  
Ta: 25°C



**MODEL: G600-5.6 1P200**

Conditions: Vin: 1PHASE 230VAC  
Iout: 100%  
Vout: 100%  
Ta: 25°C

