

G+GENESYS™ 7.5kW

EMI DATA

DWG: IA922-58-02		
APPD	CHK	DWG
Yaniv Nisinman 03/03/22	Barak Marmor 22/02/2022	Amichai Wald 06/01/22

TDK-LAMBDA

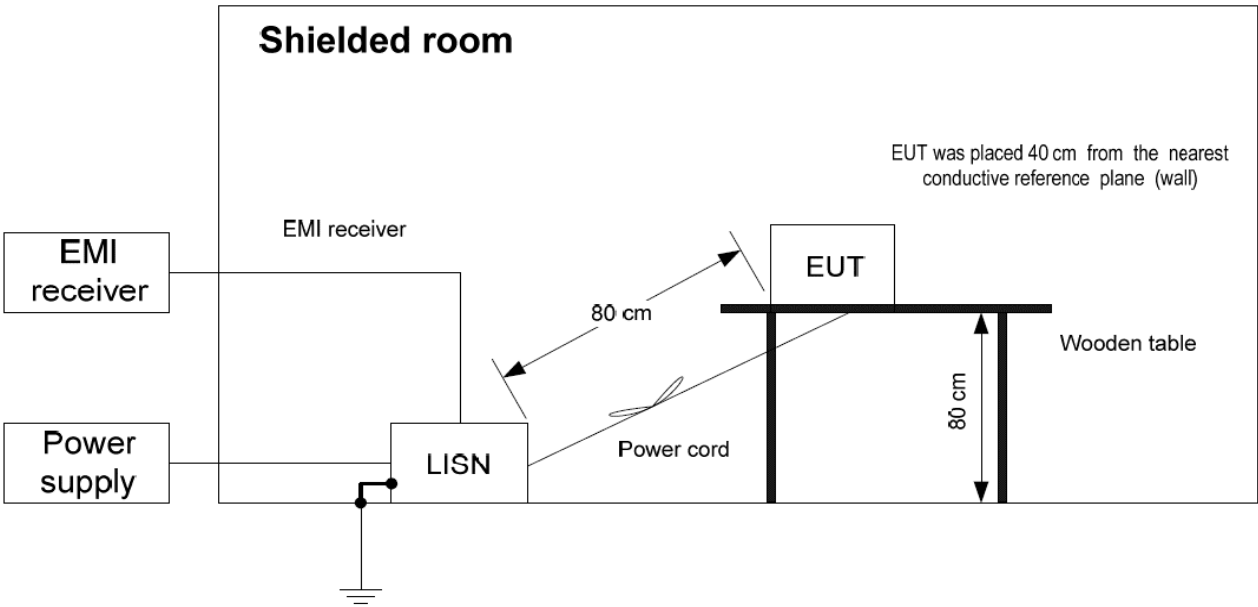
INDEX	PAGE
1. TEST METHOD	
1-1. Conducted emission -----	R-1
1-2. Radiated emission -----	R-1
2. TEST DATA	
2-1. Conducted emission -----	R-2~17
2-2. Radiated emission -----	R-18~25

The above data is typical value data.

The values are considered to be actual capability data.

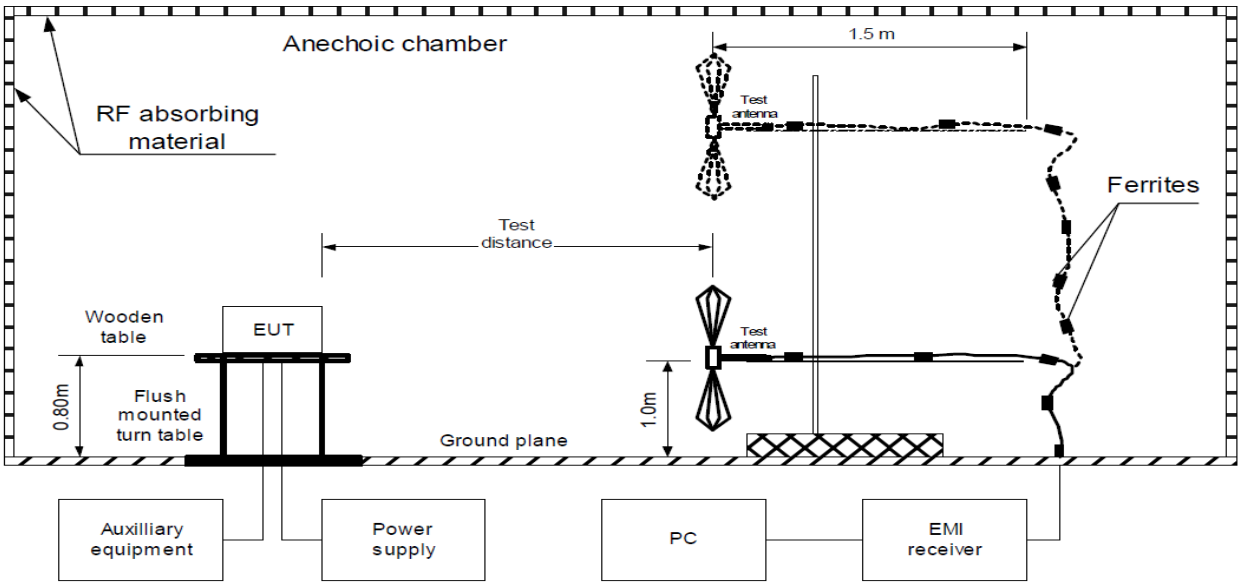
1. Test Method

(1) Conducted Emission



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

(2) Radiated Emission



SPECTRUM ANALYZER	MS2601A	(ANRITSU)
EMI TEST RECEIVER	85462A	(HEWLETT. PACKARD)
BICONICAL ANTENNA	3110BA30/200	(EMCO)
LOG-PERIODIC ANTENNA	LP200000	(ELECTROMETRIX)
	LPA2530	(ELECTROMETRIX)

2. Test Data

2.1 Conducted Emission

MODEL: G20-375 3P208

(1) Test condition

Input voltage/frequency: 3PHASE 200VAC/50Hz
 Output current: 100%
 Output voltage: 100%
 Ambient temperature: 25°C
 Regulation: FCC 47 CFR part 15 Class A, EN/IEC 61204-3, industrial environment

(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 47 CFR part 15 Class A, EN/IEC 61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBµV	dBµV	dBµV
L1	0.18137	56.64	66.00	9.36
L2	0.18173	56.67	66.00	9.33
L3	0.18119	56.38	66.00	9.62

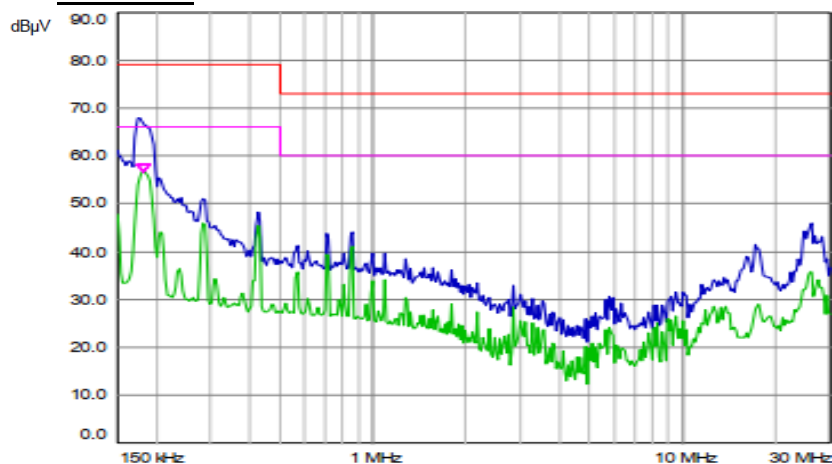
2. Test Data

2.1 Conducted Emission

MODEL: G20-375 3P208

Conditions: Vin: 3PHASE 200VAC
Iout: 100%
Vout: 100%
Ta: 25°C

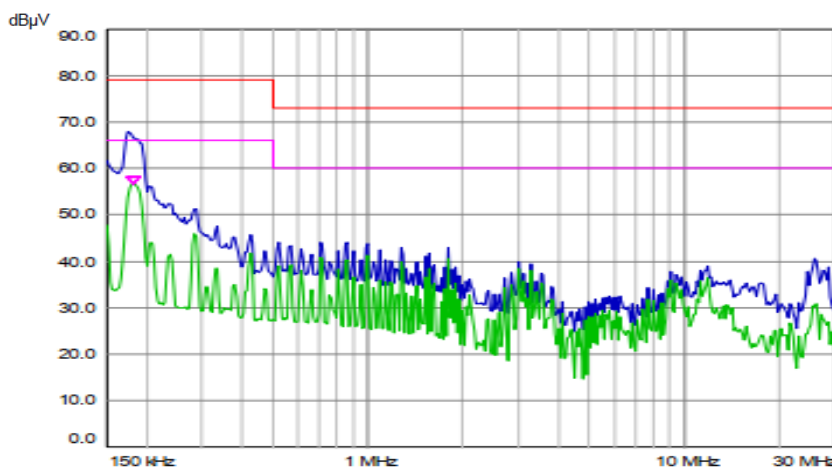
Phase L1



EN/IEC 61204-3 (QP)
FCC 47 CFR Class A (AVG)
EN/IEC 61204-3 (AVG)

Transducer
4200
Traces
PK+
AV

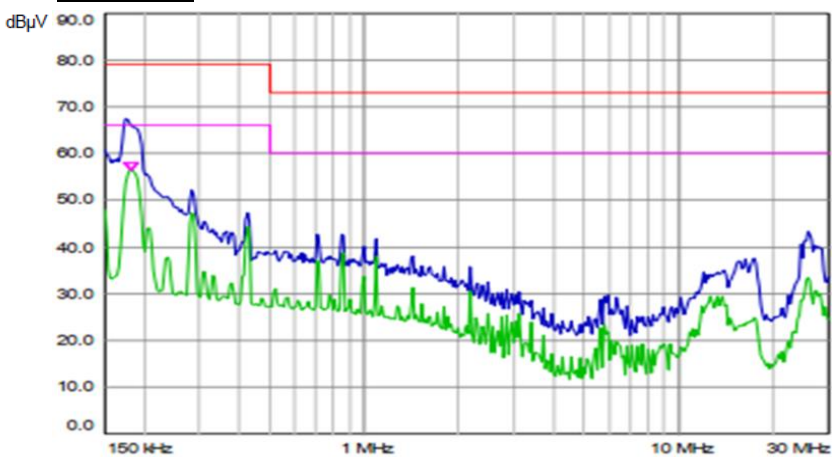
Phase L2



EN/IEC 61204-3 (QP)
FCC 47 CFR Class A (AVG)
EN/IEC 61204-3 (AVG)

Transducer
4200
Traces
PK+
AV

Phase L3



EN/IEC 61204-3 (QP)
FCC 47 CFR Class A (AVG)
EN/IEC 61204-3 (AVG)

Transducer
4200
Traces
PK+
AV

2. Test Data

2.1 Conducted Emission

MODEL: G20-375 3P480

(1) Test condition

Input voltage/frequency: 3PHASE 400VAC/50Hz
 Output current: 100%
 Output voltage: 100%
 Ambient temperature: 25°C
 Regulation: FCC 47 CFR part 15 Class A, EN/IEC 61204-3, industrial environment

(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 47 CFR part 15 Class A, EN/IEC 61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBµV	dBµV	dBµV
L1	0.15105	43.54	66.00	22.46
L1	1.80333	31.16	60.00	28.84
L2	0.15105	45.91	66.00	20.09
L2	10.18353	42.63	60.00	17.37
L3	0.15045	45.19	66.00	20.81
L3	1.80333	36.17	60.00	23.83

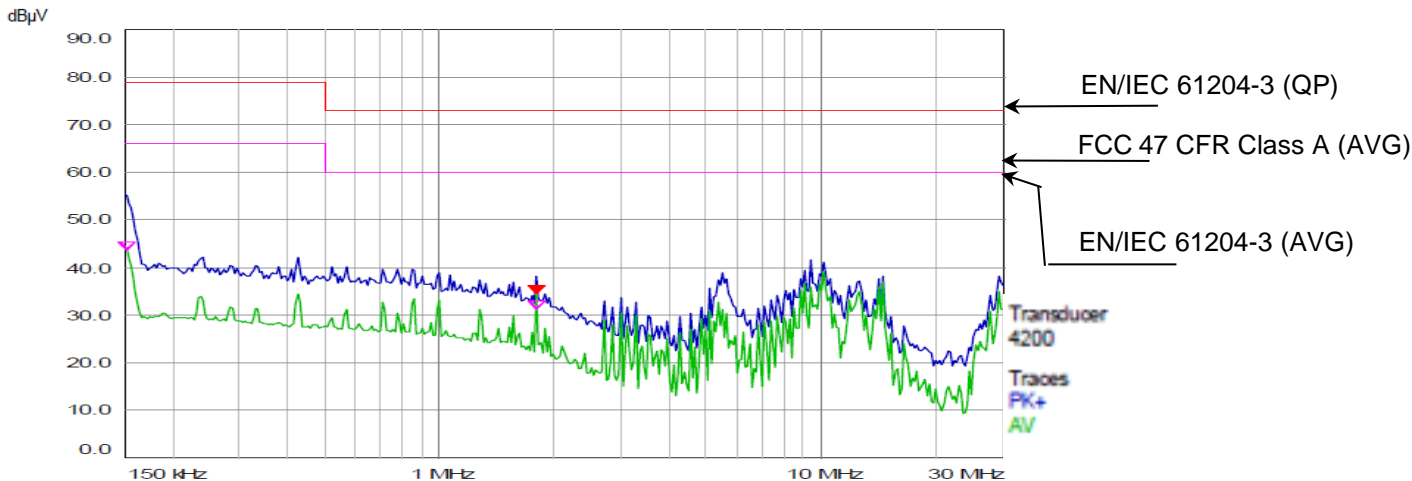
2. Test Data

2.1 Conducted Emission

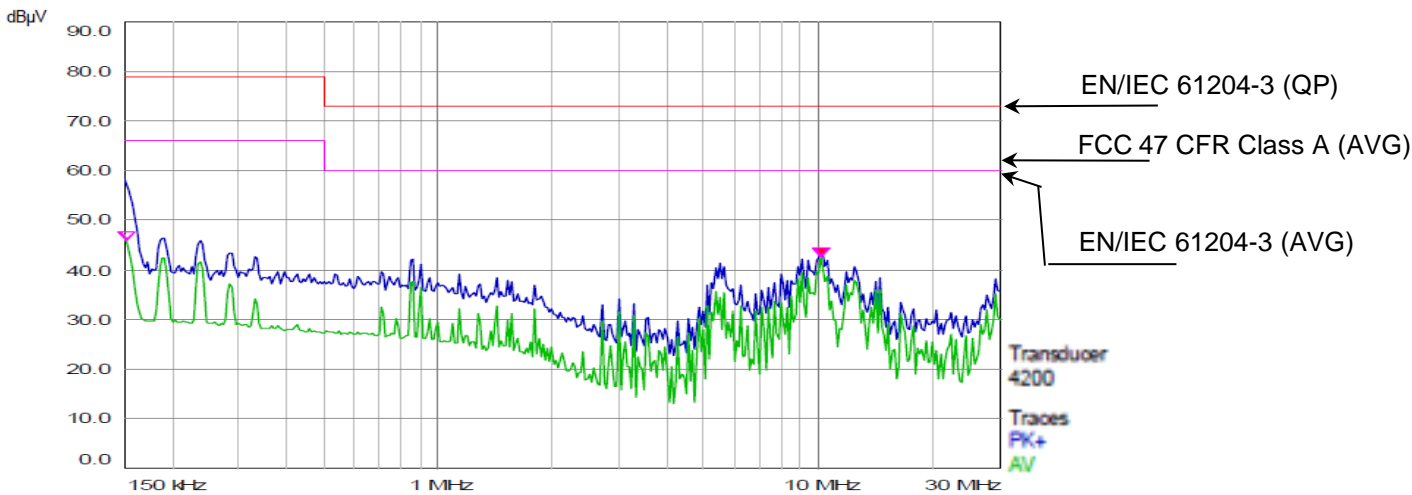
MODEL: G20-375 3P480

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

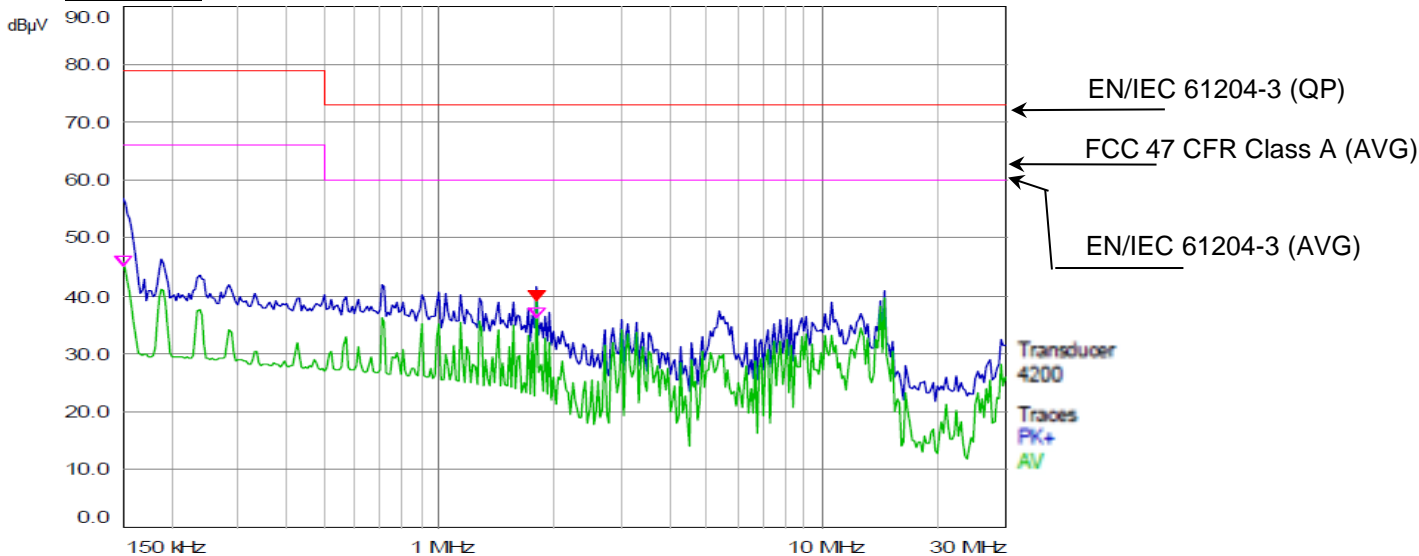
Phase L1



Phase L2



Phase L3



2. Test Data

2.1 Conducted Emission

MODEL: G100-75 3P208

(1) Test condition

Input voltage/frequency: 3PHASE 200VAC/50Hz
 Output current: 100%
 Output voltage: 100%
 Ambient temperature: 25°C
 Regulation: FCC 47 CFR part 15 Class A, EN/IEC 61204-3, industrial environment

(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 47 CFR part 15 Class A, EN/IEC 61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
		MHz	dBμV	dBμV
L1	0.23708	57.42	66.00	8.58
L2	0.23661	57.05	66.00	8.95
L3	0.23708	57.08	66.00	8.92

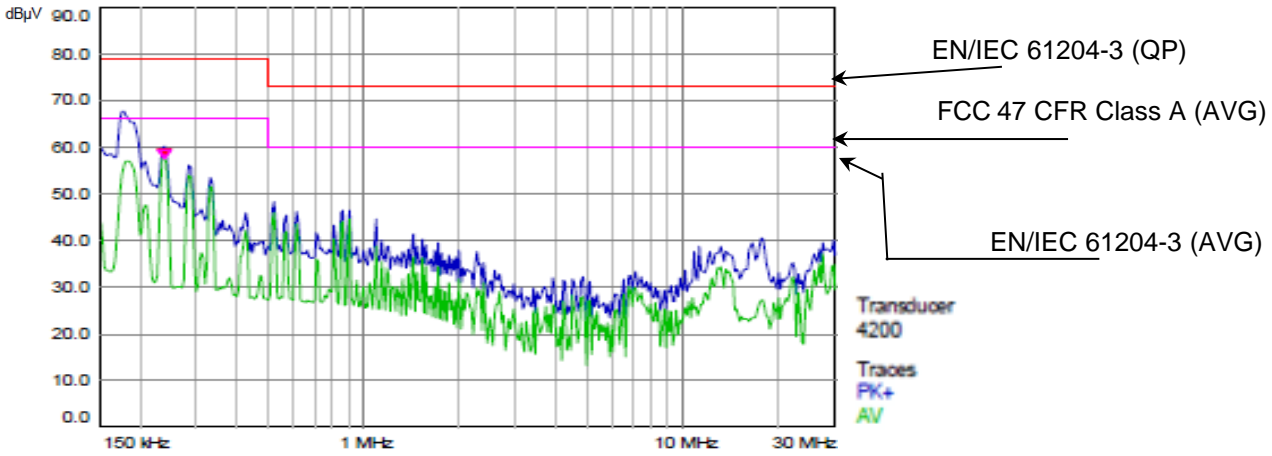
2. Test Data

2.1 Conducted Emission

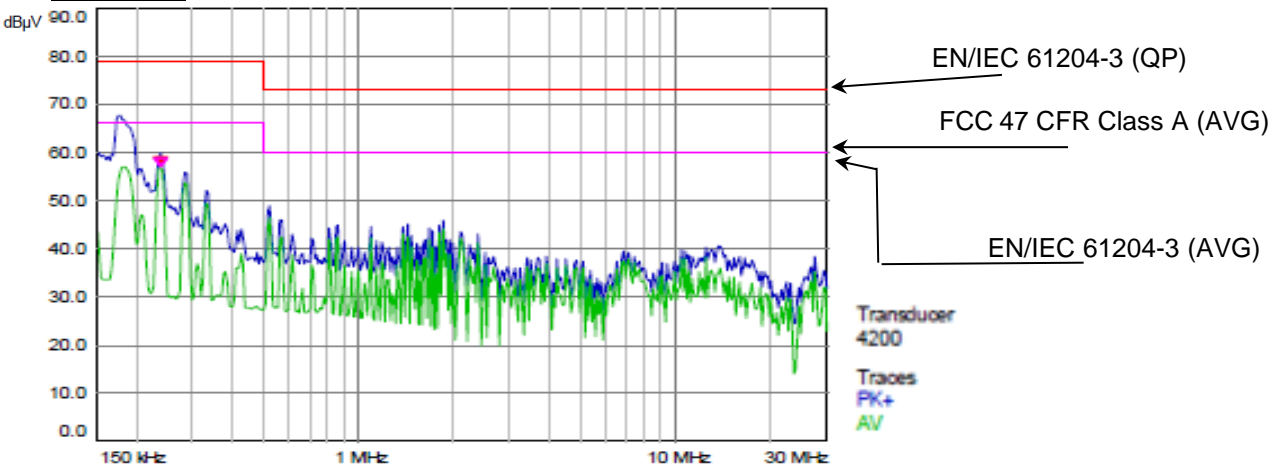
MODEL: G100-75 3P208

Conditions: Vin: 3PHASE 200VAC
Iout: 100%
Vout: 100%
Ta: 25°C

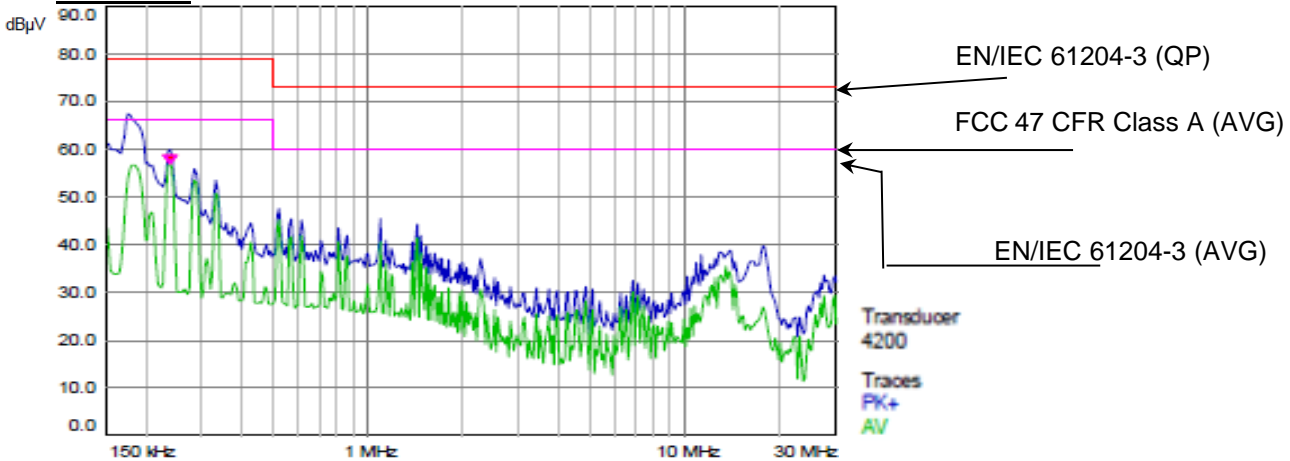
Phase L1



Phase L2



Phase L3



2. Test Data

2.1 Conducted Emission

MODEL: G100-75 3P480

(1) Test condition

Input voltage/frequency: 3PHASE 400VAC/50Hz
 Output current: 100%
 Output voltage: 100%
 Ambient temperature: 25°C
 Regulation: FCC 47 CFR part 15 Class A, EN/IEC 61204-3, industrial environment

(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 47 CFR part 15 Class A, EN/IEC 61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
		MHz	dBµV	dBµV
L1	1.42298	36.74	60.00	23.26
L2	1.42298	46.48	60.00	13.52
L3	1.42298	42.40	60.00	17.60

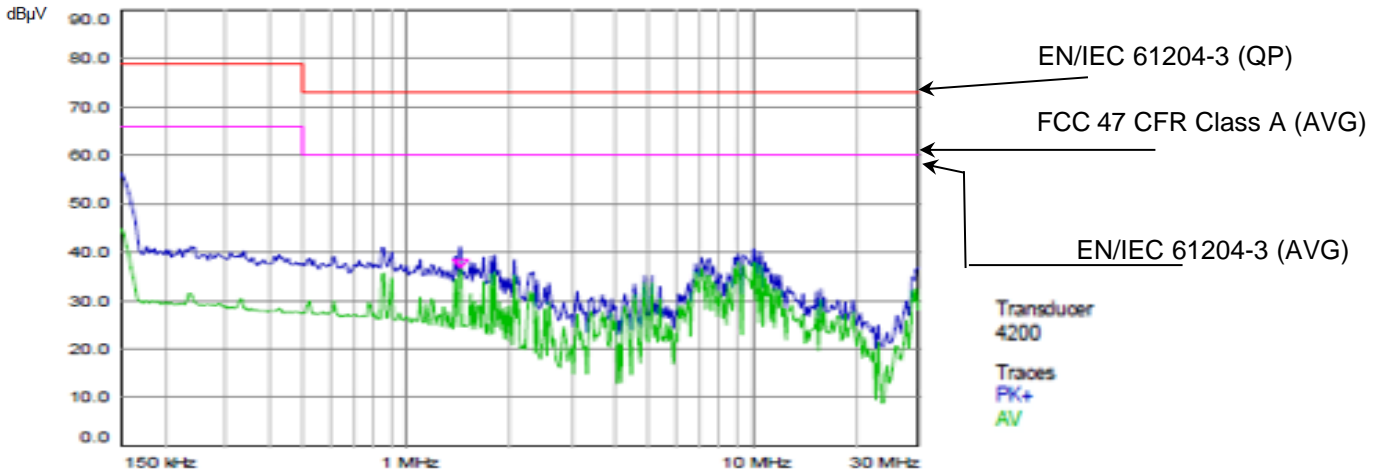
2. Test Data

2.1 Conducted Emission

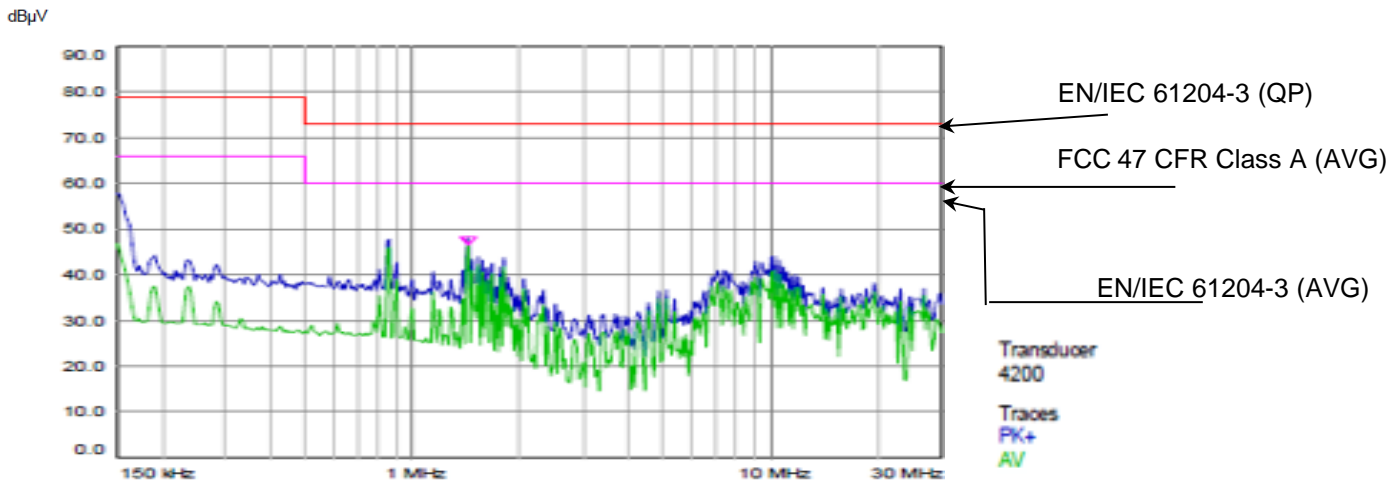
MODEL: G100-75 3P480

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

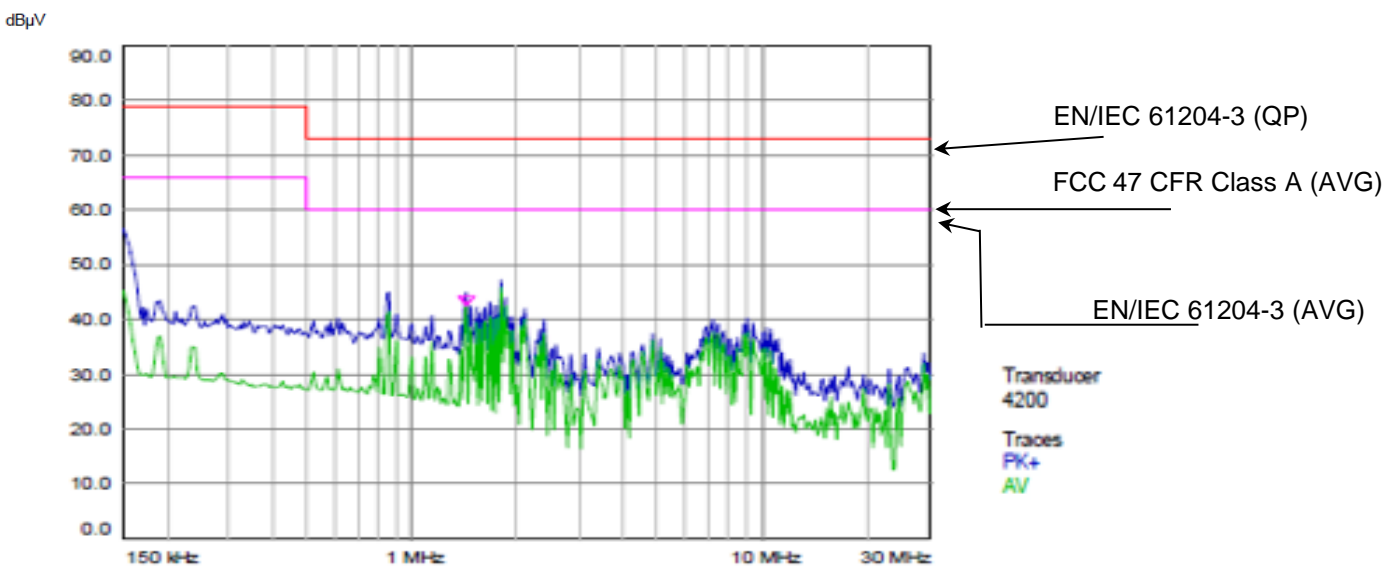
Phase L1



Phase L2



Phase L3



2. Test Data

2.1 Conducted Emission

MODEL: G600-12.5 3P208

(1) Test condition

Input voltage/frequency: 3PHASE 200VAC/50Hz
 Output current: 100%
 Output voltage: 100%
 Ambient temperature: 25°C
 Regulation: FCC 47 CFR part 15 Class A, EN/IEC 61204-3, industrial environment

(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 47 CFR part 15 Class A, EN/IEC 61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBµV	dBµV	dBµV
L1	0.42629	59.05	66.00	6.95
L2	0.42629	57.50	66.00	8.50
L3	0.42629	57.72	66.00	8.28

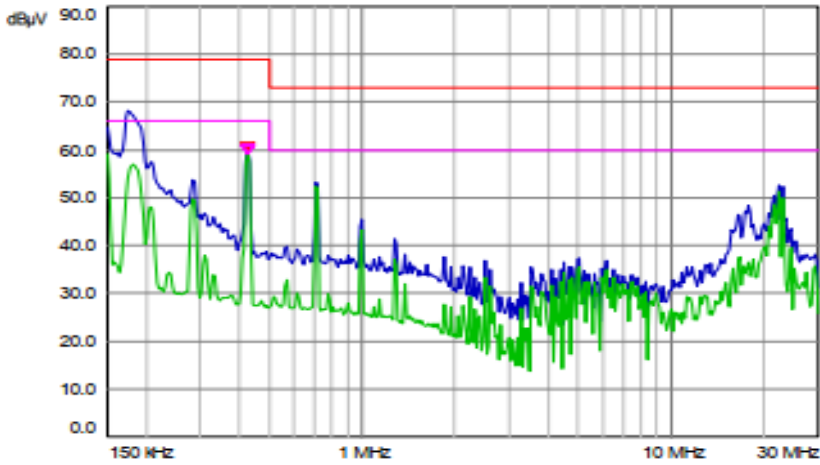
2. Test Data

2.1 Conducted Emission

MODEL: G600-12.5 3P208

Conditions: Vin: 3PHASE 200VAC
Iout: 100%
Vout: 100%
Ta: 25°C

Phase L1

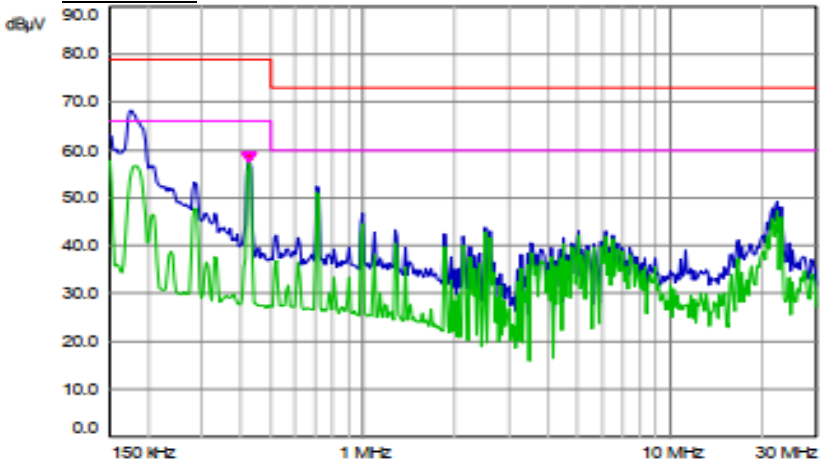


← EN/IEC 61204-3 (QP)
← FCC 47 CFR Class A (AVG)
← EN/IEC 61204-3 (AVG)

Transducer
4200

Traces
PK+
AV

Phase L2

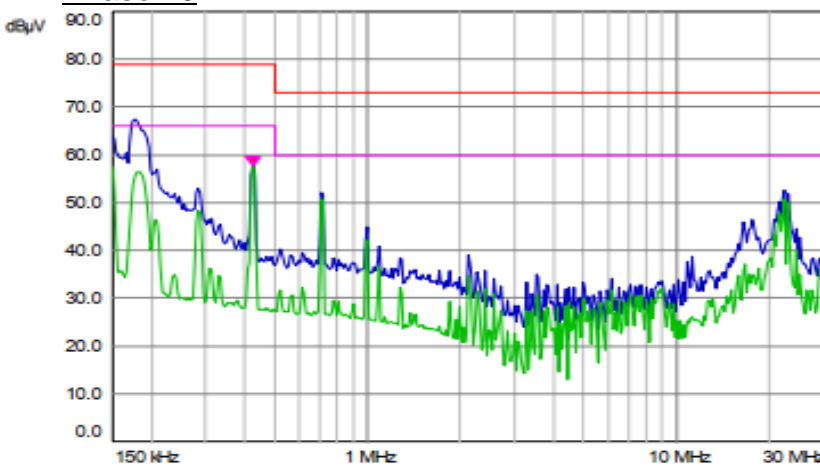


← EN/IEC 61204-3 (QP)
← FCC 47 CFR Class A (AVG)
← EN/IEC 61204-3 (AVG)

Transducer
4200

Traces
PK+
AV

Phase L3



← EN/IEC 61204-3 (QP)
← FCC 47 CFR Class A (AVG)
← EN/IEC 61204-3 (AVG)

Transducer
4200

Traces
PK+
AV

2. Test Data

2.1 Conducted Emission

MODEL: G600-12.5 3P480

(1) Test condition

Input voltage/frequency: 3PHASE 400VAC/50Hz
 Output current: 100%
 Output voltage: 100%
 Ambient temperature: 25°C
 Regulation: FCC 47 CFR part 15 Class A, EN/IEC 61204-3, industrial environment

(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

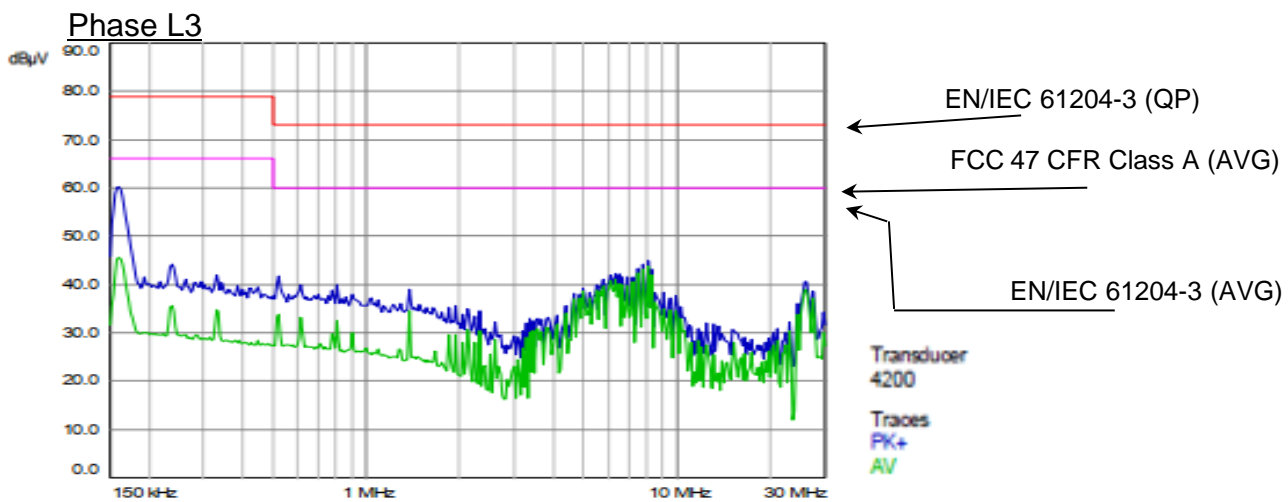
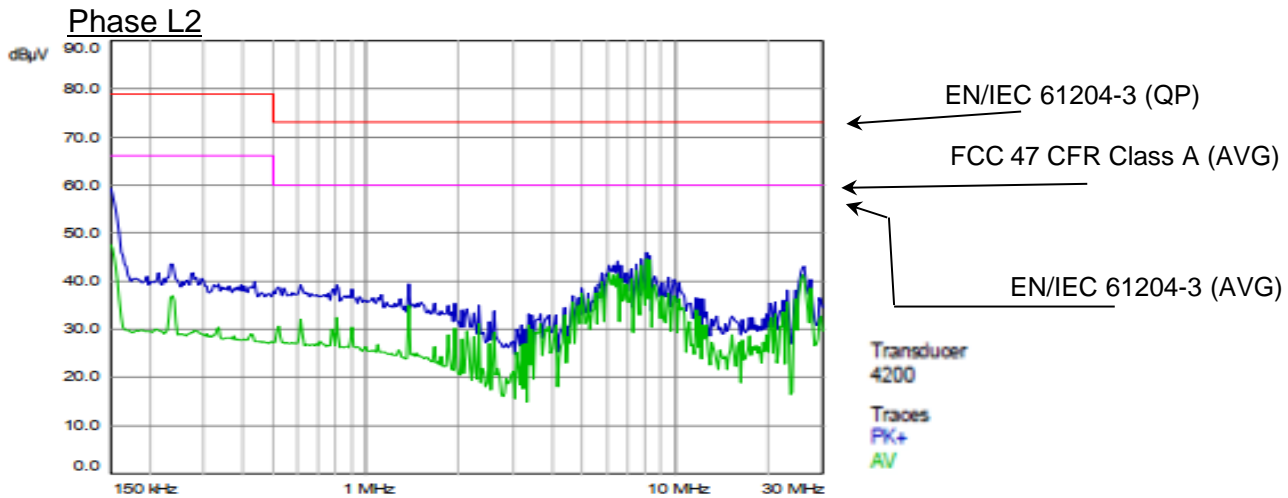
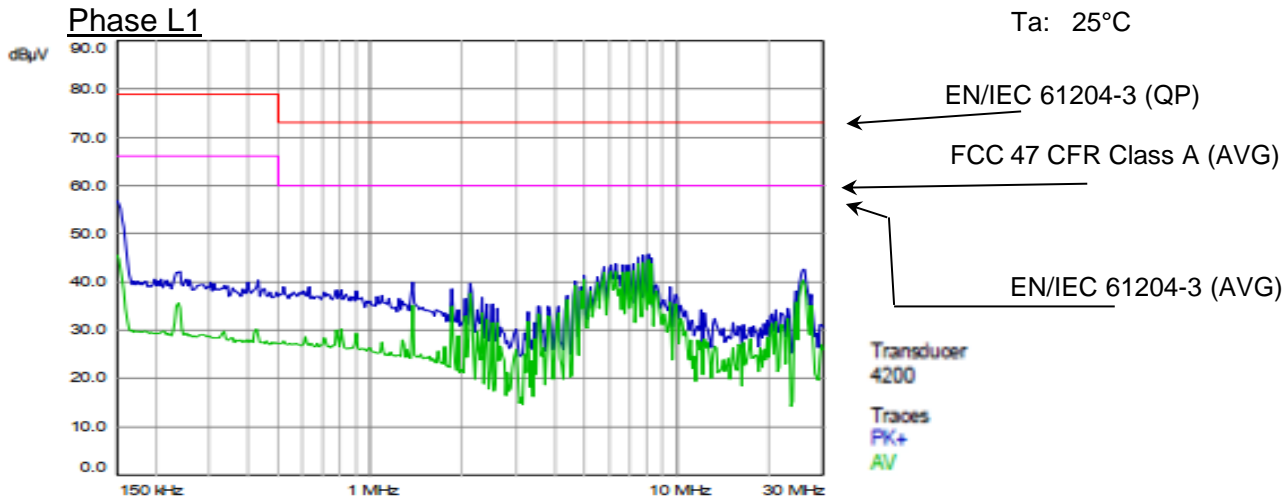
FCC 47 CFR part 15 Class A, EN/IEC 61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBµV	dBµV	dBµV
L1	ALL	N/A	Class A	>10 dB
L2	ALL	N/A	Class A	>10 dB
L3	ALL	N/A	Class A	>10 dB

2. Test Data

2.1 Conducted Emission

MODEL: G600-12.5 3P480

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



2. Test Data

2.1 Conducted Emission

MODEL: G1500-5 3P208

(1) Test condition

Input voltage/frequency: 3PHASE 200VAC/50Hz
 Output current: 100%
 Output voltage: 100%
 Ambient temperature: 25°C
 Regulation: FCC 47 CFR part 15 Class A, EN/IEC 61204-3, industrial environment

(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 47 CFR part 15 Class A, EN/IEC 61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBµV	dBµV	dBµV
L1	0.23685	50.28	66.00	15.72
L2	0.23708	49.45	66.00	16.55
L3	0.23708	48.68	66.00	17.32

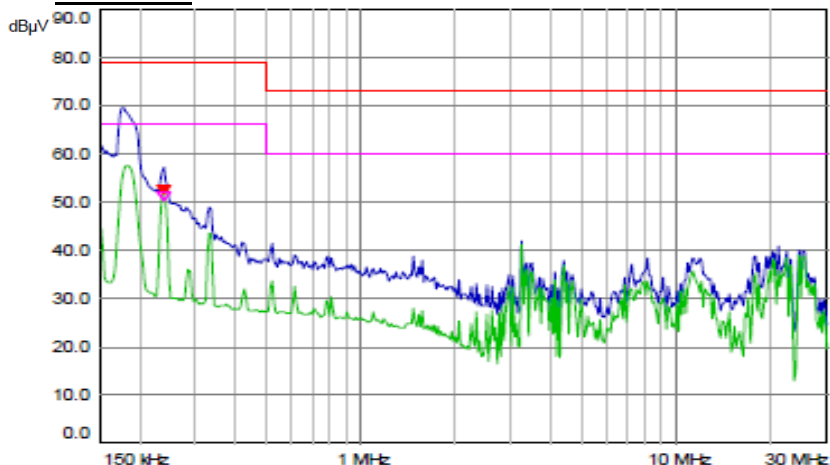
2. Test Data

2.1 Conducted Emission

MODEL: G1500-5 3P208

Conditions: Vin: 3PHASE 200VAC
Iout: 100%
Vout: 100%
Ta: 25°C

Phase L1



EN/IEC 61204-3 (QP)

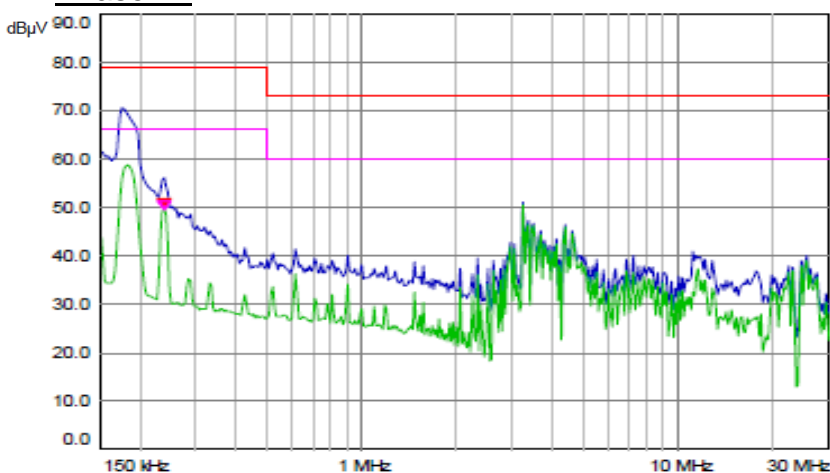
FCC 47 CFR Class A (AVG)

EN/IEC 61204-3 (AVG)

Transducer
4200

Traces
PK+
AV

Phase L2



EN/IEC 61204-3 (QP)

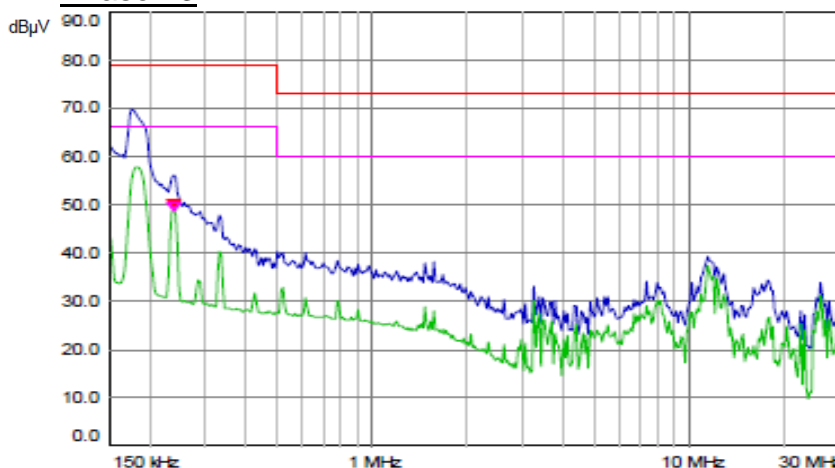
FCC 47 CFR Class A (AVG)

EN/IEC 61204-3 (AVG)

Transducer
4200

Traces
PK+
AV

Phase L3



EN/IEC 61204-3 (QP)

FCC 47 CFR Class A (AVG)

EN/IEC 61204-3 (AVG)

Transducer
4200

Traces
PK+
AV

2. Test Data

2.1 Conducted Emission

MODEL: G1500-5 3P480

(1) Test condition

Input voltage/frequency: 3PHASE 400VAC/50Hz
 Output current: 100%
 Output voltage: 100%
 Ambient temperature: 25°C
 Regulation: FCC 47 CFR part 15 Class A, EN/IEC 61204-3, industrial environment

(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

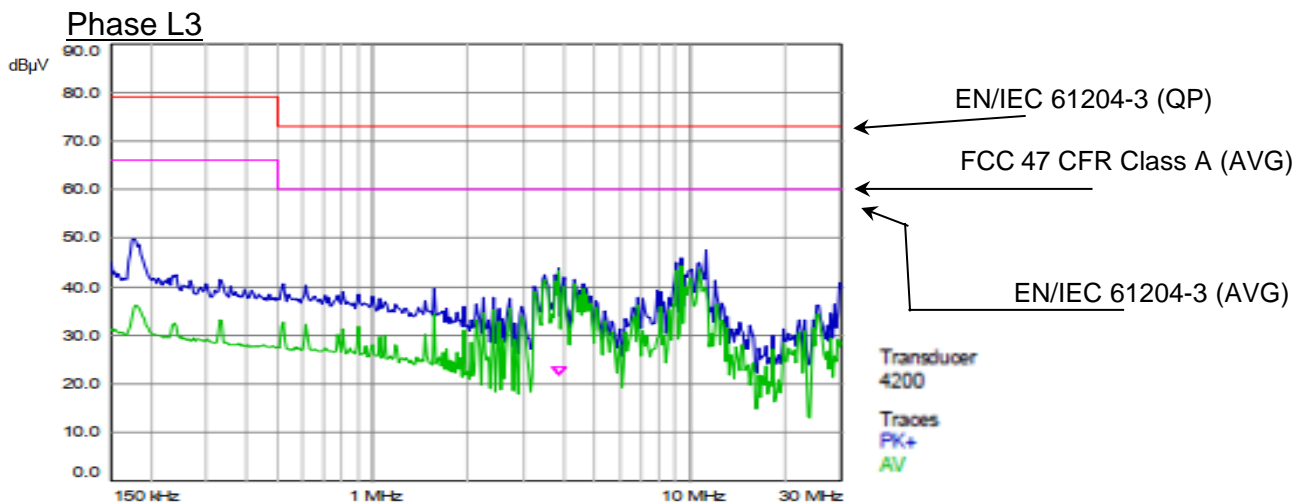
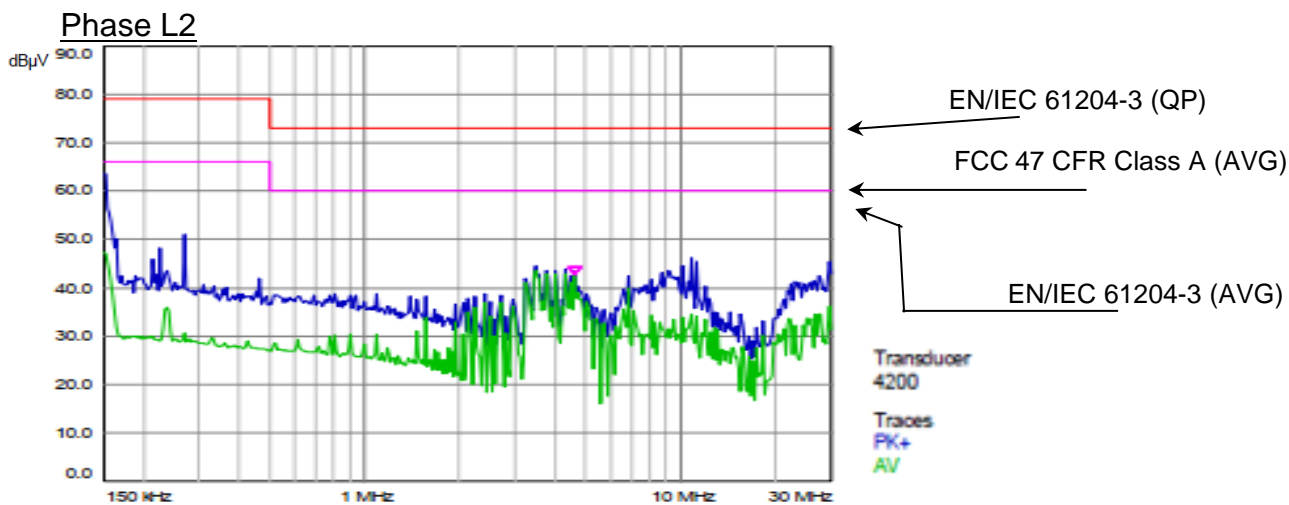
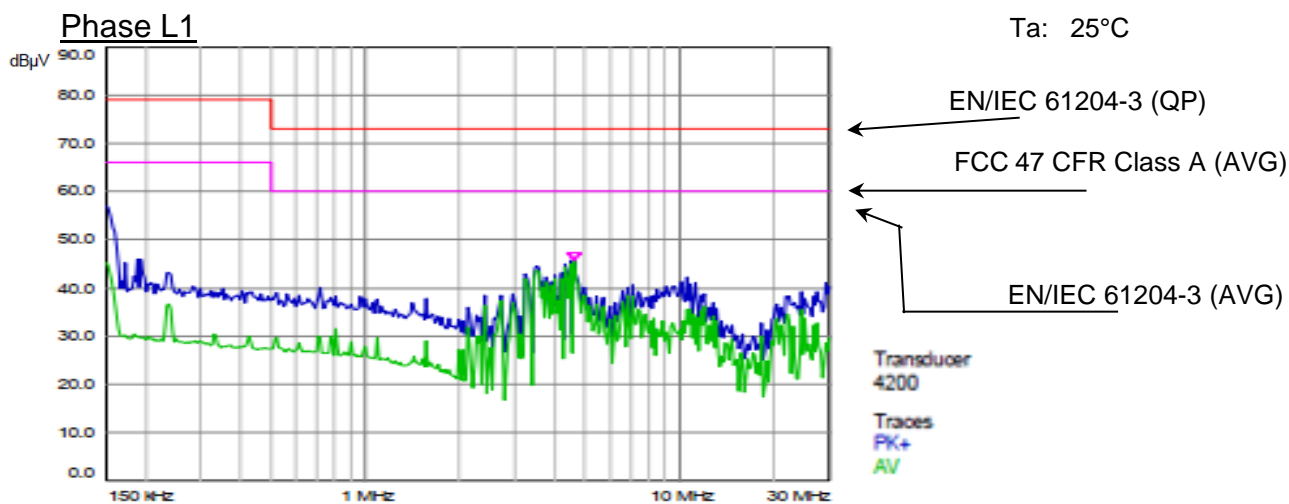
FCC 47 CFR part 15 Class A, EN/IEC 61204-3				
PHASE	FREQ	RESULT	LIMIT	MARGIN
		AV	AV	AV
	MHz	dBµV	dBµV	dBµV
L1	4.59592	45.65	60.00	14.35
L2	4.59592	42.59	60.00	17.41
L3	3.85071	21.84	60.00	38.16

2. Test Data

2.1 Conducted Emission

MODEL: G1500-5 3P480

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



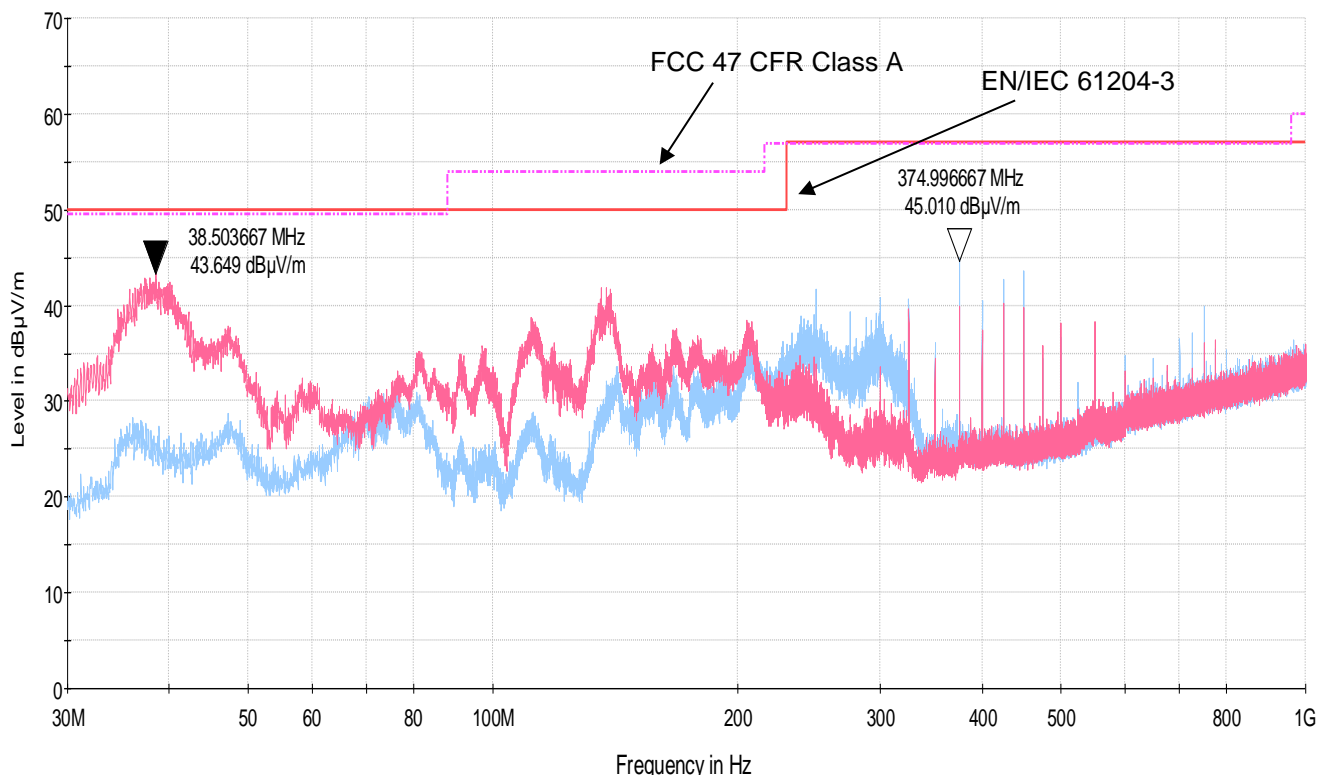
2. Test Data

2.2 Radiated Emission

MODEL: G20-375 3P208

Conditions: Vin: 200Vac (L-L)
 Vout: 100%
 Iout: 100%
 Ta: 25°C

HORIZONTAL and VERTICAL



PINK- VERTICAL
 BLUE- HORIZONTAL

Final Result						
FREQ	Quasi Peak	LIMIT	MARGIN	Hight	Pol	Azimuth
MHz	dBµV/m	dBµV/m	dB	cm		deg
38.503667	40.45	49.50	9.05	100.0	V	-153.0
374.996667	41.21	56.90	15.69	100.0	H	84.0

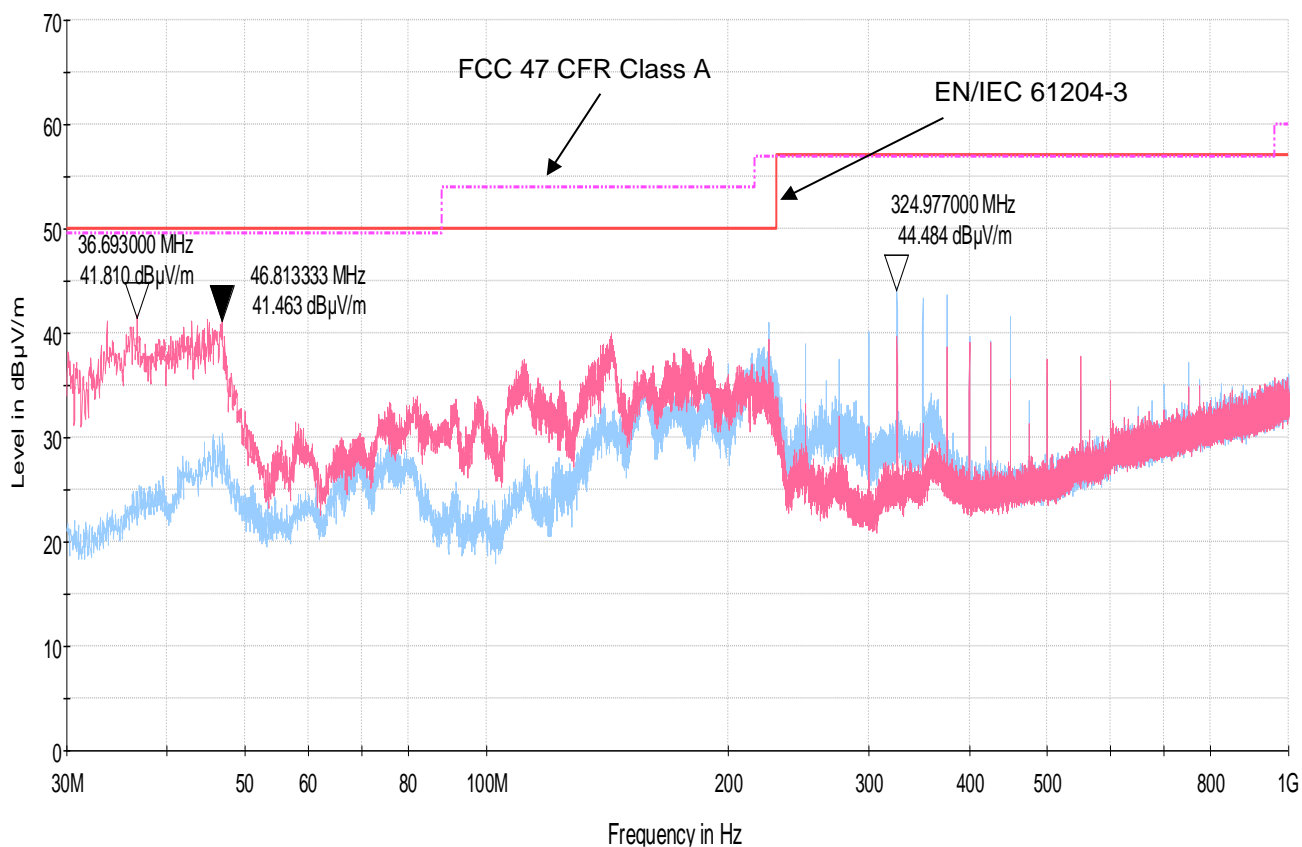
2. Test Data

2.2 Radiated Emission

MODEL: G20-375 3P480

Conditions: Vin: 400Vac (L-L)
 Vout: 100%
 Iout: 100%
 Ta: 25°C

HORIZONTAL and VERTICAL



PINK- VERTICAL
 BLUE- HORIZONTAL

Final Result						
FREQ	Quasi Peak	LIMIT	MARGIN	Hight	Pol	Azimuth
MHz	dBµV/m	dBµV/m	dB	cm		deg
36.693000	38.210	50.00	11.79	102.0	V	-156.0
46.813333	38.063	50.00	11.94	102.0	V	93.0
324.977000	40.784	57.00	16.22	100.0	H	94.0

2. Test Data

2.2 Radiated Emission

MODEL: G100-75 3P208

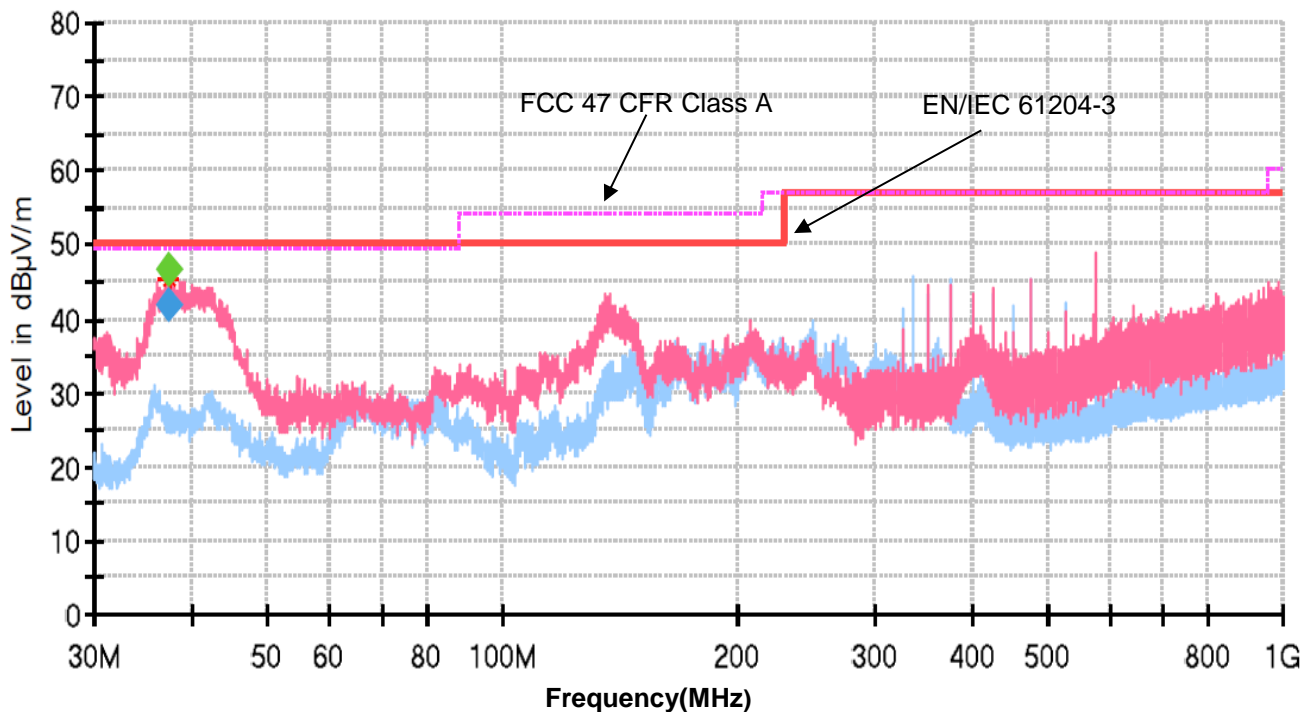
Conditions: Vin: 200Vac (L-L)

Vout: 100%

Iout: 100%

Ta: 25°C

HORIZONTAL and VERTICAL



PINK- VERTICAL
BLUE- HORIZONTAL

Final Result						
FREQ	Quasi Peak	LIMIT	MARGIN	Hight	Pol	Azimuth
MHz	dBµV/m	dBµV/m	dB	cm		deg
37.441631	41.84	49.50	7.66	102.0	V	161.0

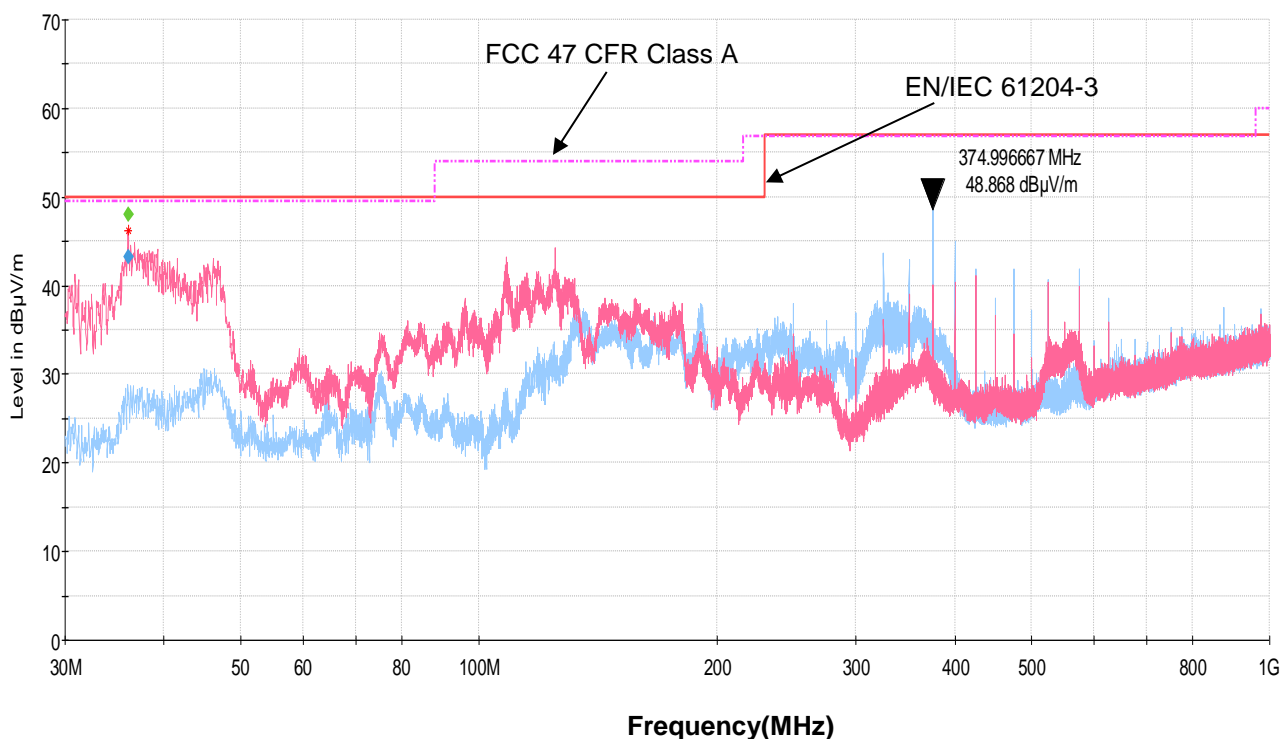
2. Test Data

2.2 Radiated Emission

MODEL: G100-75 3P480

Conditions: Vin: 400Vac (L-L)
 Vout: 100%
 Iout: 100%
 Ta: 25°C

HORIZONTAL and VERTICAL



PINK- VERTICAL
 BLUE- HORIZONTAL

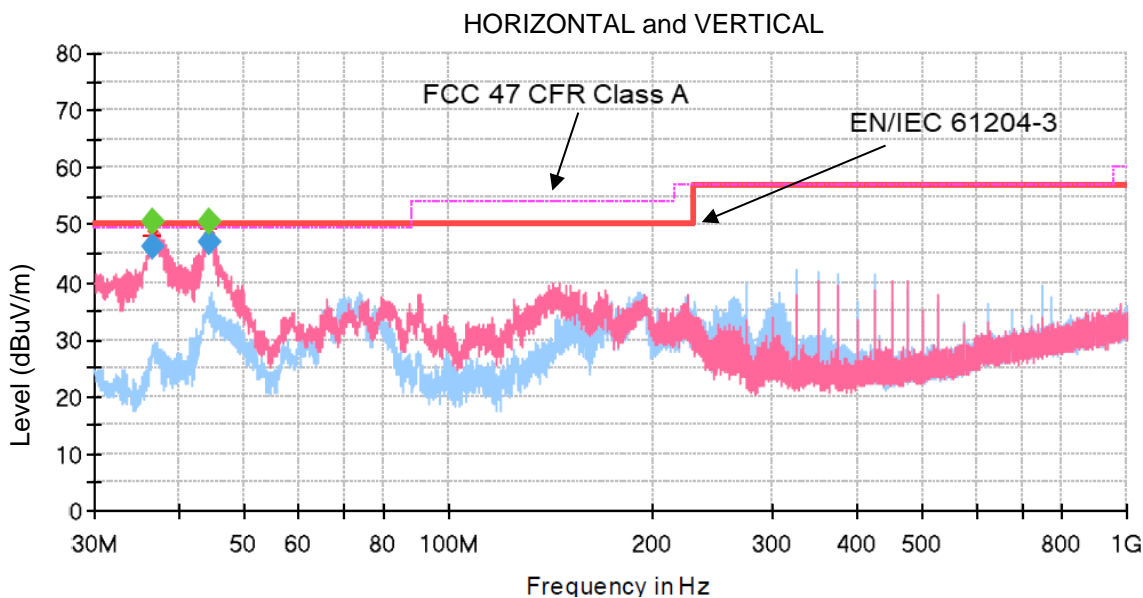
Final Result						
FREQ	Quasi Peak	LIMIT	MARGIN	Hight	Pol	Azimuth
MHz	dBµV/m	dBµV/m	dB	cm		deg
36.0	43.30	50.00	6.70	100.0	V	58.0
374.9967	45.27	57.00	11.73	101.0	H	59.0

2. Test Data

2.2 Radiated Emission

MODEL: G600-12.5 3P208

Conditions: Vin: 200Vac (L-L)
 Vout: 100%
 Iout: 100%
 Ta: 25°C



PINK- VERTICAL
 BLUE- HORIZONTAL

Final Result						
FREQ	Quasi Peak	LIMIT	MARGIN	Hight	Pol	Azimuth
MHz	dB μ V/m	dB μ V/m	dB	cm		deg
36.529019	46.15	49.50	3.35	102.0	V	-180.0
44.396204	46.96	49.50	2.54	102.0	V	104.0

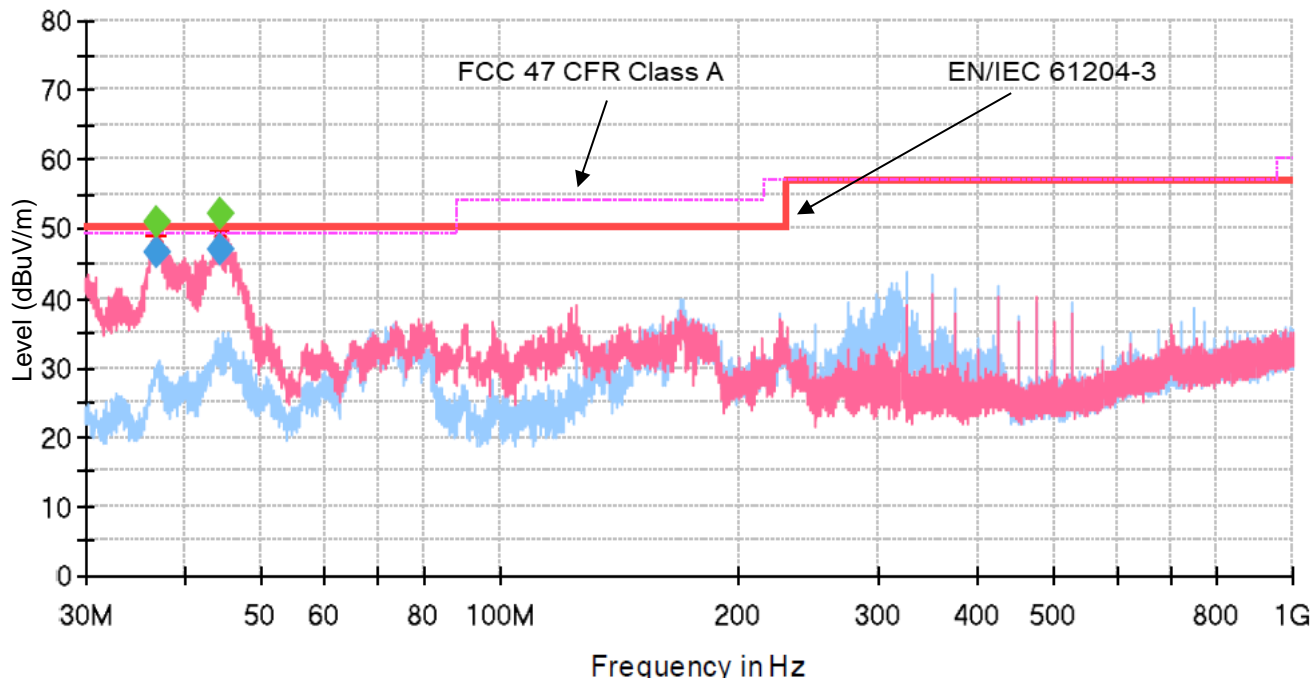
2. Test Data

2.2 Radiated Emission

MODEL: G600-12.5 3P480

Conditions: Vin: 400Vac (L-L)
 Vout: 100%
 Iout: 100%
 Ta: 25°C

HORIZONTAL and VERTICAL



PINK- VERTICAL
 BLUE- HORIZONTAL

Final Result						
FREQ	Quasi Peak	LIMIT	MARGIN	Hight	Pol	Azimuth
MHz	dBμV/m	dBμV/m	dB	cm		deg
36.765019	46.66	50.00	3.34	104.0	V	-156.0
44.424732	47.00	50.00	3.00	100.0	V	93.0

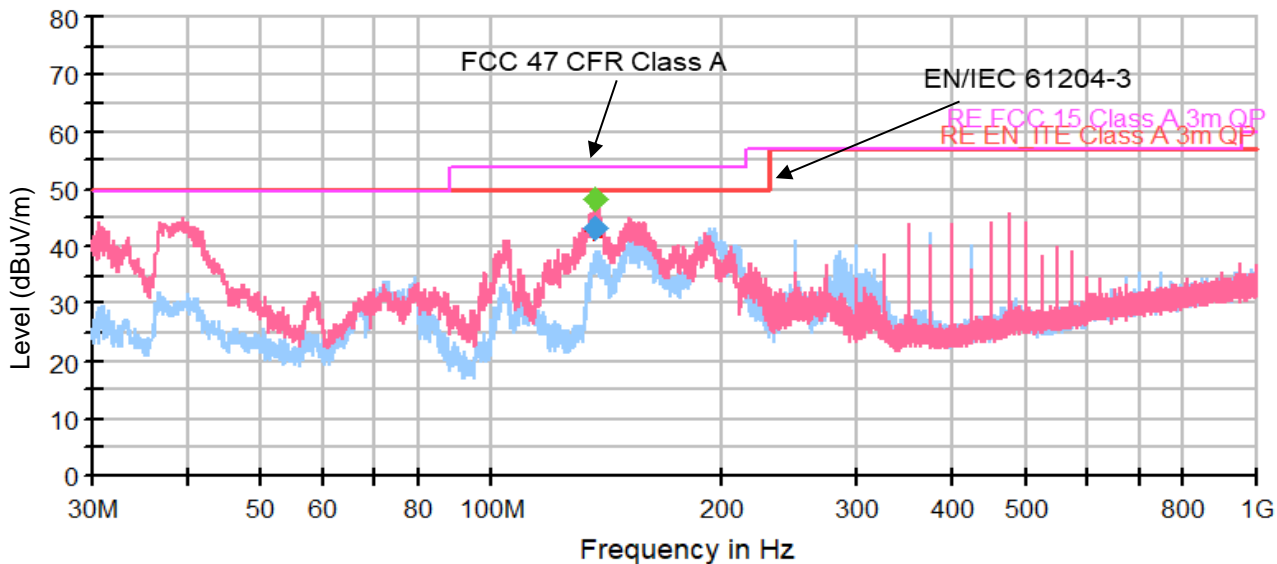
2. Test Data

2.2 Radiated Emission

MODEL: G1500-5 3P208

Conditions: Vin: 200Vac (L-L)
 Vout: 100%
 Iout: 100%
 Ta: 25°C

HORIZONTAL and VERTICAL



PINK- VERTICAL
 BLUE- HORIZONTAL

Final Result						
FREQ	Quasi Peak	LIMIT	MARGIN	Hight	Pol	Azimuth
MHz	dB μ V/m	dB μ V/m	dB	cm		deg
135.9920	43.18	54.00	10.82	100.0	V	25.0

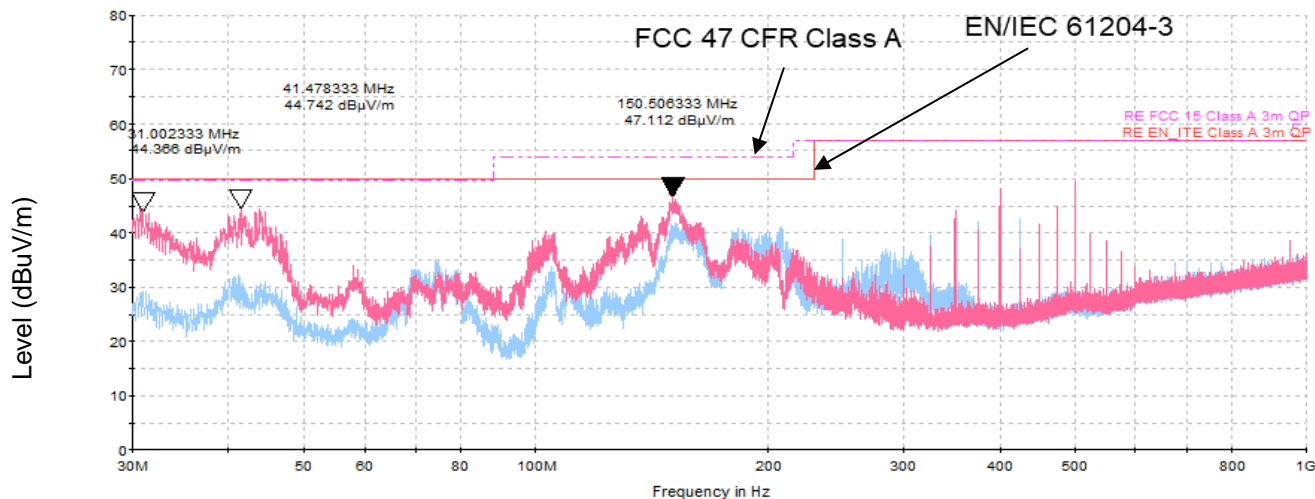
2. Test Data

2.2 Radiated Emission

MODEL: G1500-5 3P480

Conditions: Vin: 400Vac (L-L)
 Vout: 100%
 Iout: 100%
 Ta: 25°C

HORIZONTAL and VERTICAL



PINK- VERTICAL
 BLUE- HORIZONTAL

Final Result						
FREQ	Quasi Peak	LIMIT	MARGIN	Hight	Pol	Azimuth
MHz	dBuV/m	dBuV/m	dB	cm		deg
31.002333	41.066	50.00	8.93	102.0	V	156.0
41.478333	41.142	50.00	8.86	102.0	V	67.0
150.506333	44.012	50.00	5.99	100.0	V	94.0