

**MODELS: FR-XC**

**TITLE: EMC DATA EXAMPLE (FR-XC)**

(1) EMC data example when using multi-function regenerative converter FR-XC in combination with inverter.

**Conditions**

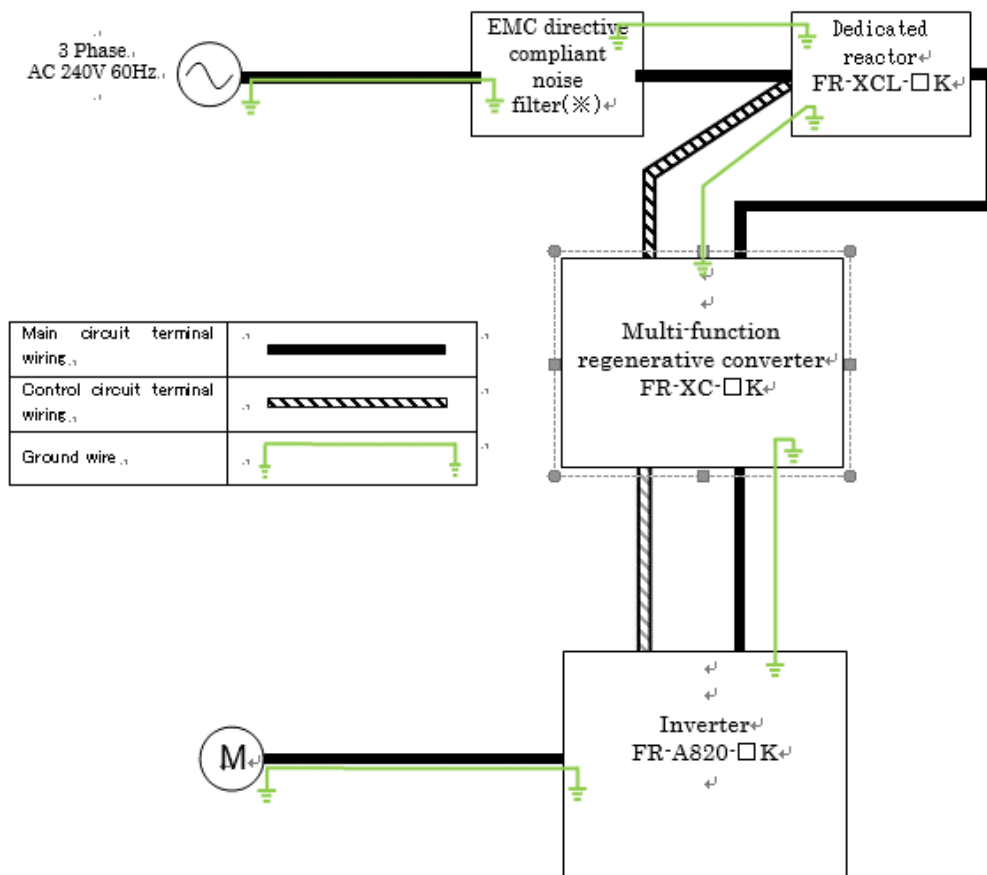
Inverter and multi-function regenerative converter conform to EN61800-3 product standard. Measurement conditions were based on 2nd Environment Category C3 as described in EN61800-3.

Output interconnection (motor) length : 20m

Output cable type : Shielded cable

Inverter frequency : 30Hz

Carrier frequency : Indicated above each graph



EMC directive compliant noise filters are used

Multi-function regenerative converter	Model	Manufacturer
FR-XC-11K	HF3060C-UQC	SOSHIN ELECTRIC CO., LTD.
FR-XC-15K	FTB-80-663-L	COSEL CO., LTD.
FR-XC-30K	FTB-150-663-L	

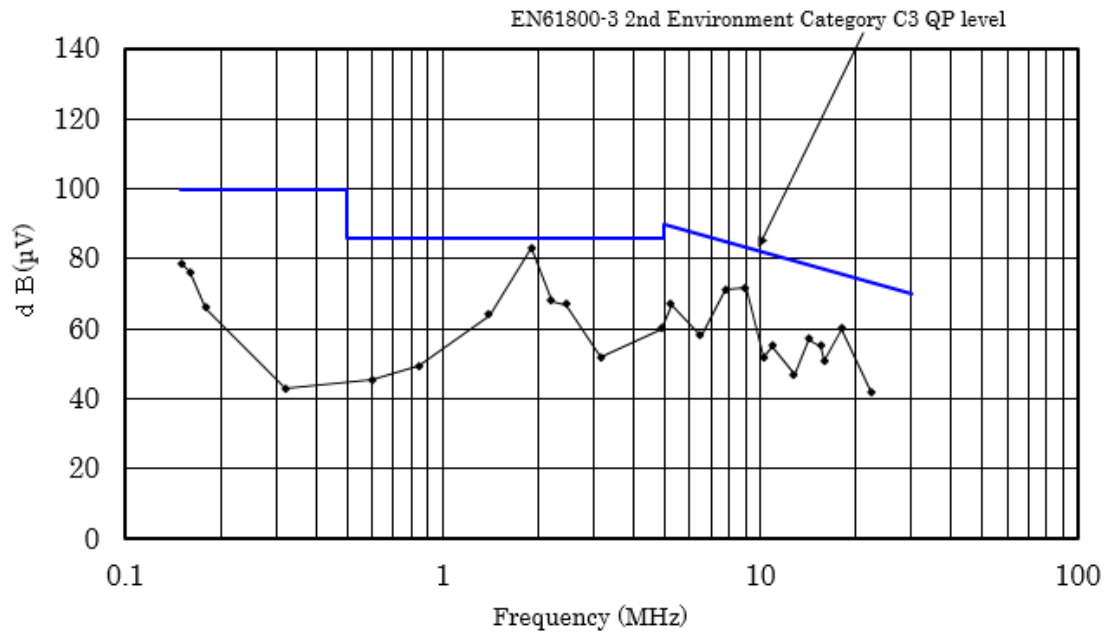
**MODELS: FR-XC**

**EXAMPLE OF MEASUREMENT RESULTS**

**FR-XC-11K**

◆ Conducted noise

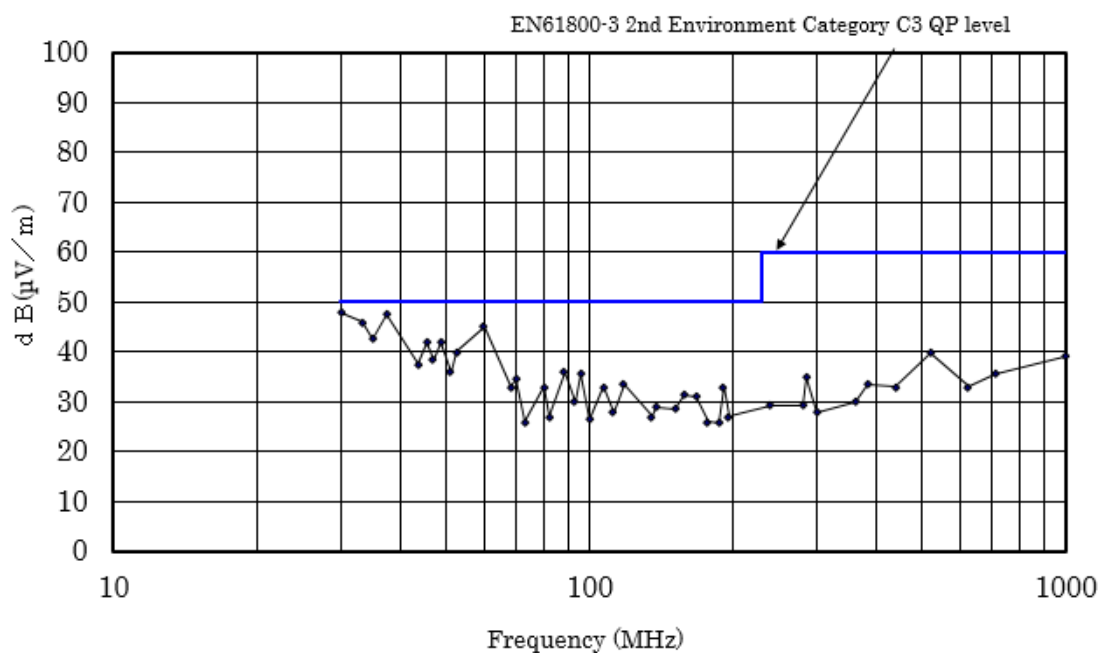
FR-XC-11K (Carrier frequency : 2kHz)



(Note) The QP value will not exceed the peak value

◆ Radiated noise

FR-XC-11K (Carrier frequency : 2kHz)



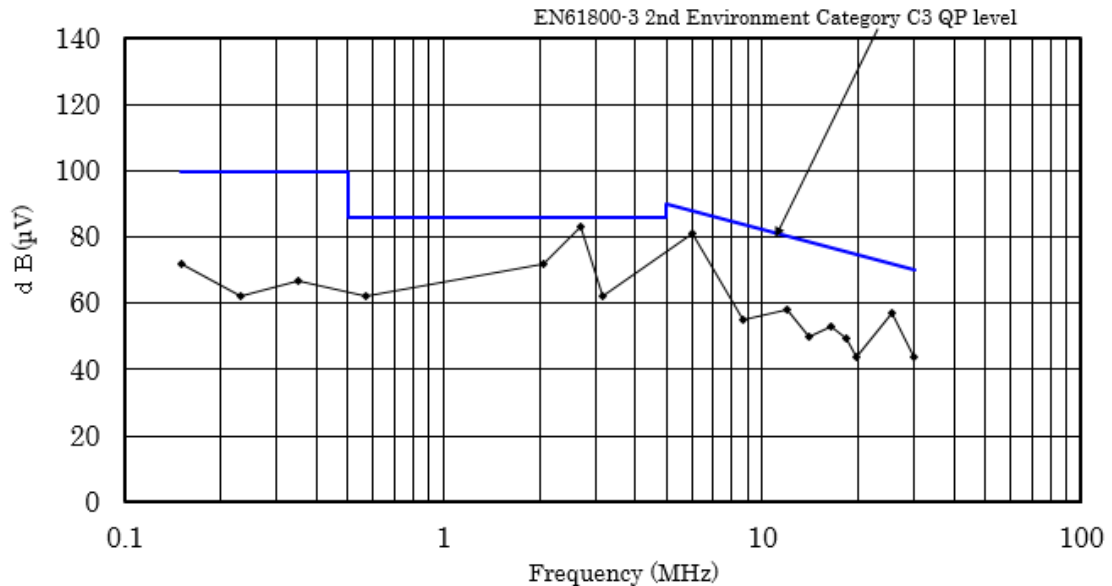
(Note) The QP value will not exceed the peak value

**MODELS: FR-XC**

**FR-XC 15K**

◆ Conducted noise

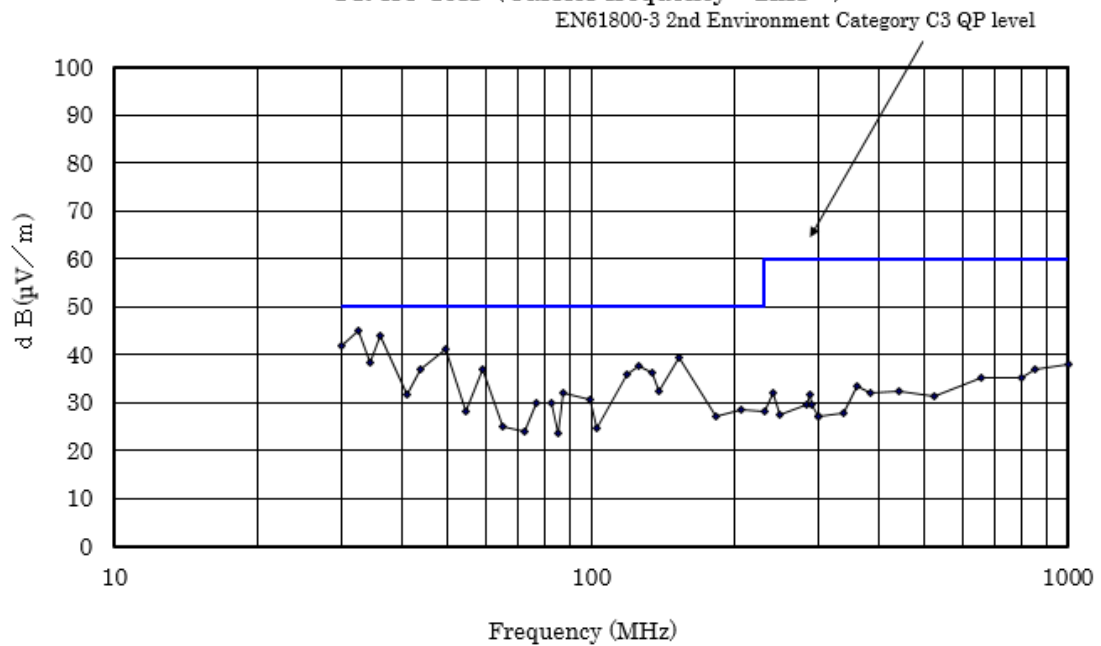
FR-XC-15K (Carrier frequency : 2kHz)



(Note) The QP value will not exceed the peak value

◆ Radiated noise

FR-XC-15K (Carrier frequency : 2kHz)

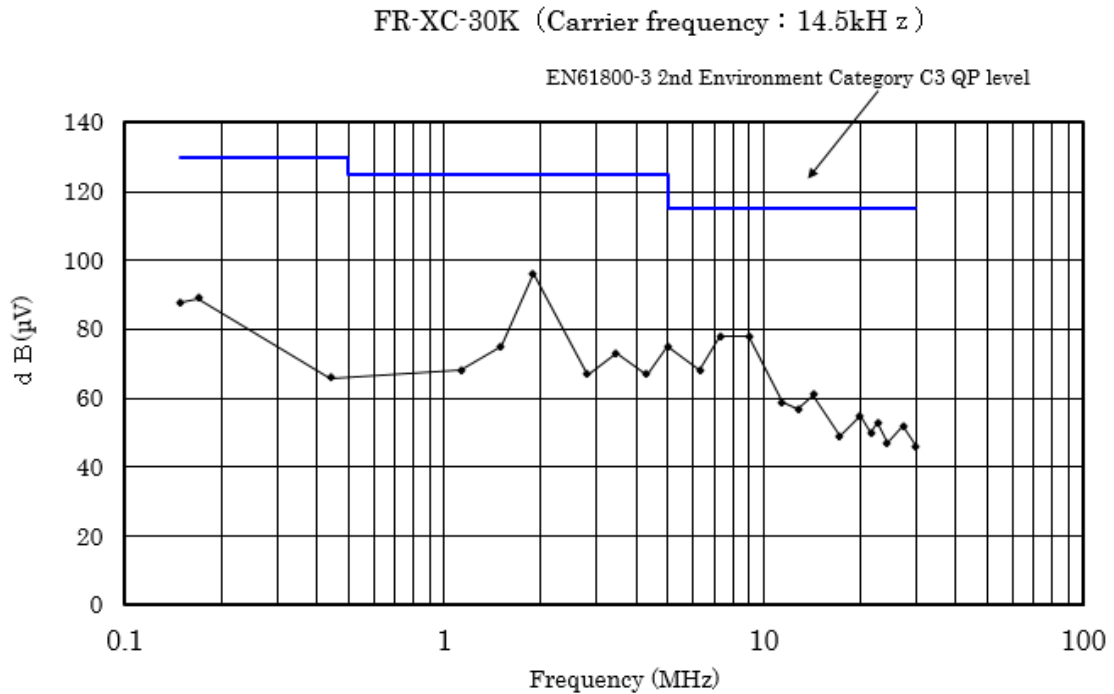


(Note) The QP value will not exceed the peak value

**MODELS: FR-XC**

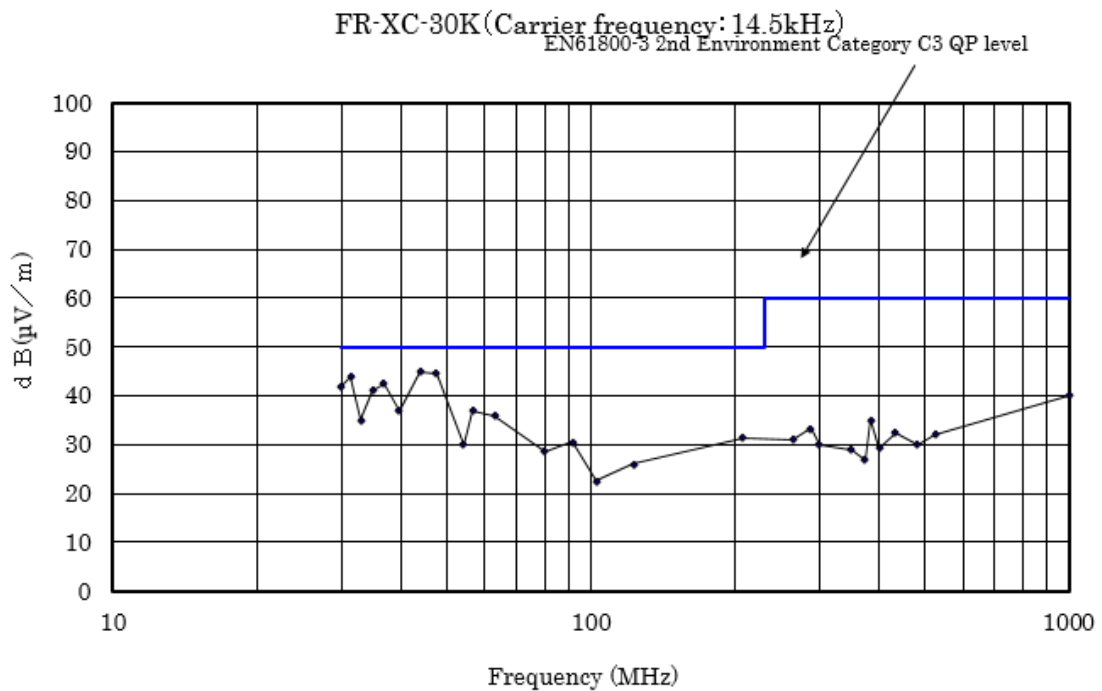
**FR-XC-30K**

◆ Conducted noise



(Note) The QP value will not exceed the peak value

◆ Radiated noise



(Note) The QP value will not exceed the peak value

**MODELS: FR-XC**

**FR-XC-PWM**

(2) EMC data example when using multi-function regenerative converter FR-XC-PWM in combination with inverter.

**Conditions**

Inverter and multi-function regenerative converter conform to EN61800-3 product standard.

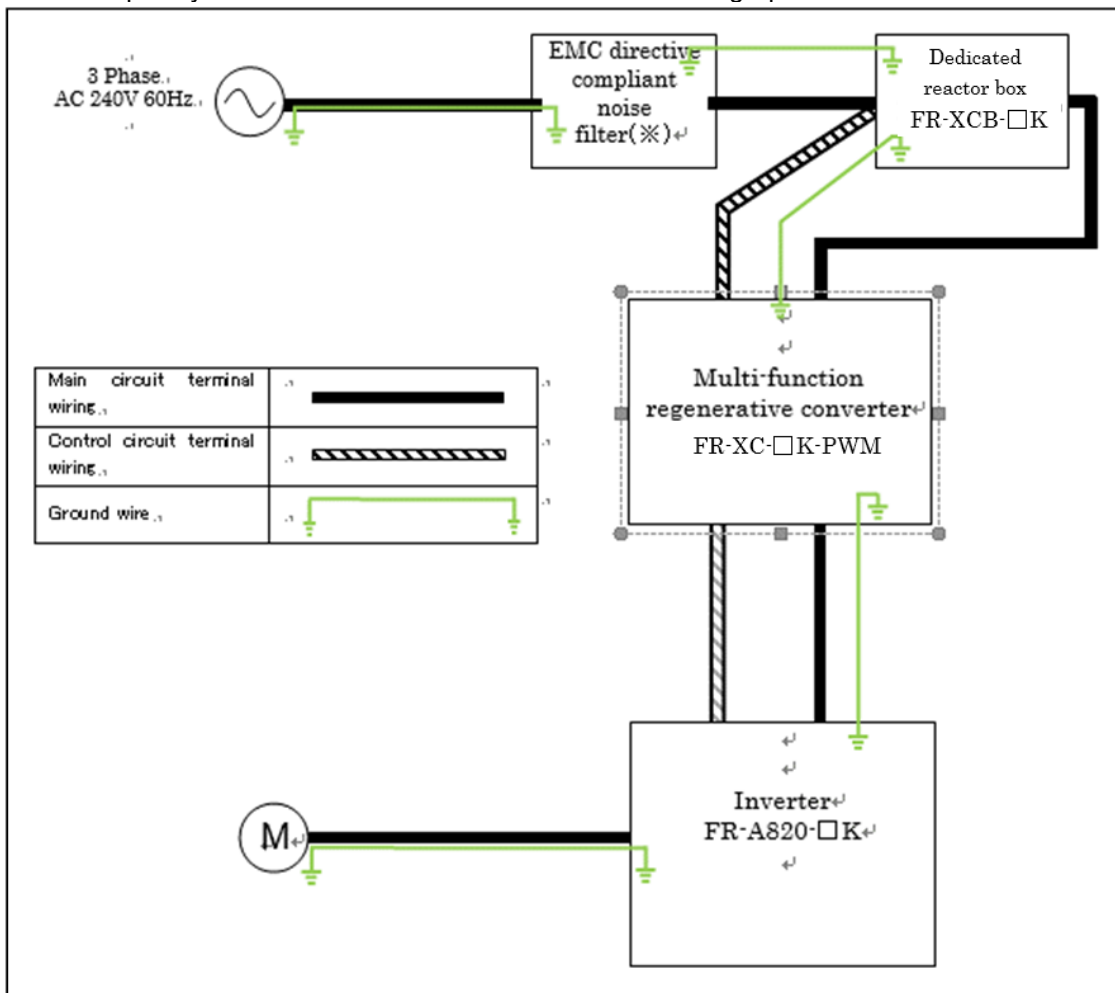
Measurement conditions were based on 2nd Environment Category C3 as described in EN61800-3.

Output interconnection (motor) length : 20m

Output cable type : Shielded cable

Inverter frequency : 30Hz

Carrier frequency : Indicated above each graph



EMC directive compliant noise filters are used

Multi-function regenerative converter	Model	Manufacturer
FR-XC-22K-PWM	FTB-150-663-L	COSEL CO., LTD.

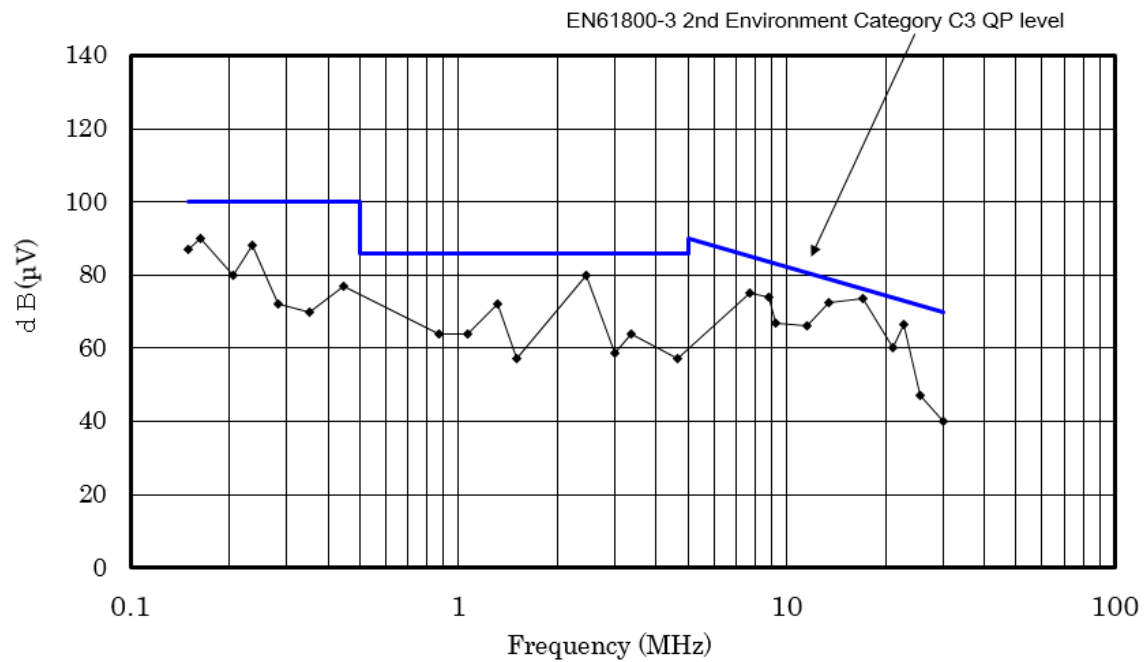
**MODELS: FR-XC**

**EXAMPLE OF MEASUREMENT RESULTS**

**FR-XC-22K-PWM**

◆ Conducted noise

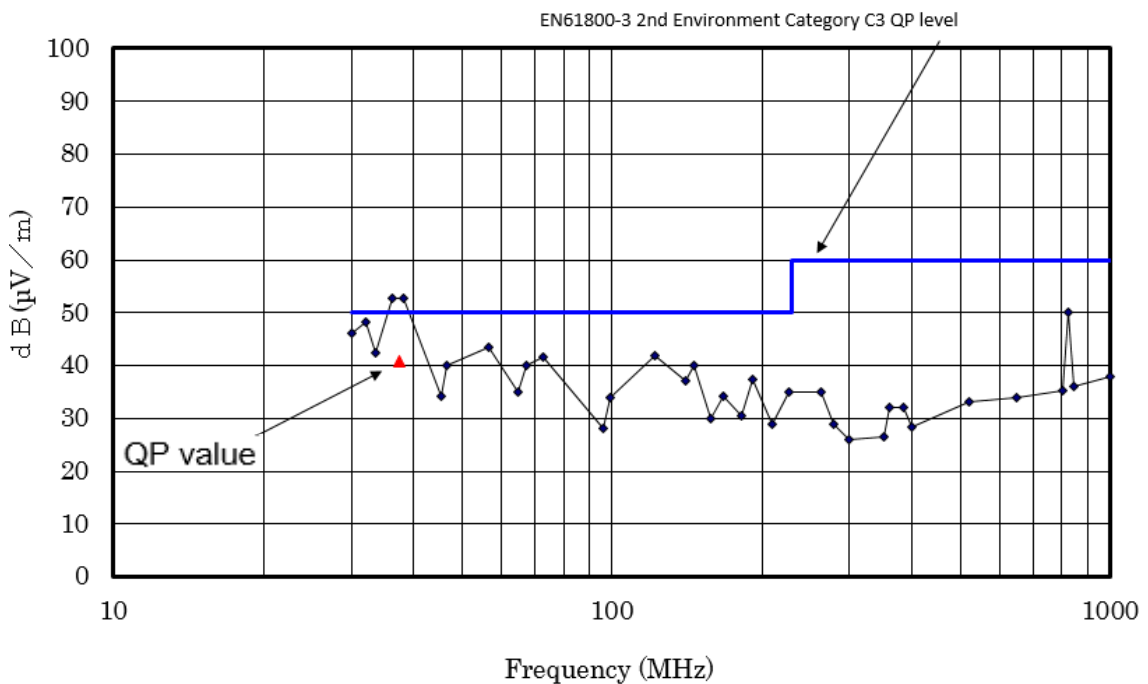
XC-22K-PWM ( Carrier frequency : 5kHz )



(Note) The QP value will not exceed the peak value

◆ Radiated noise

XC-22K-PWM ( Carrier frequency : 5kHz )



(Note) The QP value will not exceed the peak value