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To FCC

# Overall Assessment Letter for the Ray 218 Class D DSC VHF Radio

FCC id: PJ5VHFGEN1

I have assessed the above referenced submission for the Ray 218 and found it to be compliant.

The product is a VHF marine radio which incorporates Class "D" Digital Selective Calling.

The following points were noted and resolved during the evaluation.

Managing Director

Jean-Louis Evans

## 1. Application

The application form did not provide accurate power output information required for the grant to reflect the test results recorded in the reports. This information was subsequently revised.

## 2. External & Internal Photographs

The file sizes for the external and internal photographs were not in a suitable format for uploading to the server. These photos were converted to pdf for ease of uploading.





## 3. Schematics

The schematics were in an unsuitable format for uploading to the FCC server and so were converted to a single pdf format to reduce storage space and speed up the transmission.

#### 4. General

The equipment subject to RF exposure assessment is a Fixed Mount VHF radio model RAY218 and was based upon the following criteria:-

- The Fixed Mount VHF radio operates in the frequency range of 156.025 MHz to 157.425 MHz, the numeric gain of the radio is 1.995.
- The length of the radio is assumed to be 40.64 centimetres.
- The radio has a maximum output power of 25 Watts
- The point of investigation is calculated to be 1.41 metre with an assumed maximum antenna gain of 3 dBi

The calculations have shown that the radio meets the General and Occupational limits shown in the FCC 47 CFR § 1.1310 Guidelines.

I underwent the FCC RF exposure evaluation training at BABT in May 2006.

Yours sincerely

Tom Twynam **Technical Certifier** For BABT TCB

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British Approvals Board for Telecommunications TÜV SÜD Group