



Ref: US000151

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To FCC

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Overall Assessment Letter for the RAY49 Class D DSC VHF Radio

FCC id: PJ5RAY49

I have assessed the above referenced submission for the RAY49 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 during the evaluation.

1. The grantee has declared compliance with the following FCC regulations:-

- Part 80.203 (b), (c) and (d)
- Part 80.207 (a), (b) and (d)
- Part 80.225 (a) and (c)

2. RF Exposure

The equipment subject to RF exposure assessment is a Fixed Mount VHF radio model RAY49 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 July 2007.

Yours sincerely

Allen Ferry
Technical Certifier
For BABT TCB