

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO.: FL528D102U

DATE: August 29, 1979

PAGE 1 OF 2

DEVICE TYPE: Mass Spectrometer

MODEL: Phemto-Chem MMS-160

MANUFACTURER/DISTRIBUTOR: PCP, Inc.
2155 Indian Road
West Palm Beach, FL 33409

MANUFACTURER/DISTRIBUTOR:

SEALED SOURCE MODEL DESIGNATION: NEN NER-004

ISOTOPE: Nickel-63

MAXIMUM ACTIVITY: 15 millicuries

LEAK TEST FREQUENCY: 6 months

PRINCIPAL USE: Other

CUSTOM DEVICE: ☐ YES ☒ NO

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PDR FOIA
HAMMITT84-74 PDR

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PAGE 2 OF 2

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DESCRIPTION:

The model MMS-160 Phento-Chem Mass Spectrometer has a New England Nuclear Model NER 004 radioactive source mounted in a spectrometer head. The source is clamped in a stainless steel guard and mounting device. The mounting device is then sealed inside a 1/8 inch stainless steel chamber which is 4" in diameter and 8" long. There are two openings through which air and a sample can enter the chamber. All gasses leave the chamber through a single port. Heaters are used to raise the chamber temperature. There is an adjustable thermostat that can operate up to 299 degrees Centigrade and a limit switch that turns off the power at 325 degrees Centigrade. The limit switch must be reset manually.

LABELING:

The inner source mounting device is marked with the radiation symbol, the isotope, amount, and serial number of the source. The spectrometer head also has a Radioactive Material label permanently attached externally. This label is worded according to requirements for either general or specific license.

EXTERNAL RADIATION LEVELS:

The radiation level at the external surface of the stainless steel chamber is background.

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE:

The instruction manual includes warnings of radioactive materials and instructions for 6-month leak testing at the gas exit port. Specific training is provided each purchaser of the equipment by the manufacturer.

The instruction manual warns users that all repairs should be made by the manufacturer or others specially licensed to make such repairs.

ISSUING AGENCY:

State of Florida