

Smiths Detection

1730 Aimco Boulevard
Mississauga, Ontario
Canada, L4W 1V1
Phone: 905-238-8837
Fax: 905-238-3018

CERTIFICATE NO.: DT-140504-01

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: G. Ranger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63 Nominal activity: 15.00 mCi

System serial No.: IONSCAN Prototype 500DT #2 IMS serial No.: 500DT-7/6

Source serial No.: MD 919/918 (eg. G-, KT-, KU-)

Collection method: Cotton swab at outer casing of detector (cover open)

Part 2- Leak Test Sample Measurement

Background counts / minute: 2 Sample counts / minute: 1

Net measured radioactivity: φ Bq. Passed [] Failed* []

Test Performed By: Ivan Santana Date: May 14 /04.

Signature: Ivan Santana

Test device: Protean Instruments; alpha/beta counter [] IPC-9025 [] MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**
In case of failure, notify contact listed above, quarantine device, submit second sample.
1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: **Dr. Georgia Ranger, 905 238 8837** CNSC Licence #: 15-1-11013

Smiths Detection

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CERTIFICATE NO.: DT-140504-02

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: [Signature]

Type of sample: Q-tip cotton swab

Type of source: Nickel-63 Nominal activity: 15.00 mCi

System serial No.: LAUSCAN Prototype #2 IMS serial No.: 500DT-7/6
(eg. SAB -, PIMS-, 400B -, 400 -)

Source serial No.: ND-919/918 (eg. G-, KT-, KU-)

Collection method: Cotton swab of outer casing of detector (cover closed)

Part 2- Leak Test Sample Measurement

Background counts / minute: 2 Sample counts / minute: φ

Net measured radioactivity: φ Bq. Passed Failed*

Test Performed By: Ivan Santana Date: May 14 04.

Signature: [Signature]

Test device: Protean Instruments; alpha/beta counter IPC-9025 MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**
In case of failure, notify contact listed above, quarantine device, submit second sample.
1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: Dr. Georgia Ranger, 905 238 8837

CNSC Licence #: 15-1-11013

Smiths Detection

CERTIFICATE NO.: DT-140504-03

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Fax: 905-238-3018

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013
Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1
Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018
Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121
Taken by: Georgia Ranger Signature: [Signature]
Type of sample: Q-tip cotton swab
Type of source: Nickel-63 Nominal activity: 15.00 mCi
System serial No.: 1025CAN Prototype #121 IMS serial No.: 500 DT - 7/6
(eg. SAB -, PIMS-, 400B -, 400 -)
Source serial No.: MD-919/918 (eg. G-, KT-, KU-)
Collection method: Cotton swab at detector surface

Part 2- Leak Test Sample Measurement

Background counts / minute: 2 Sample counts / minute: 2
Net measured radioactivity: ϕ Bq. Passed [] Failed* []
Test Performed By: Iwan Santana Date: May 14 / 04.
Signature: [Signature]
Test device: Protean Instruments; alpha/beta counter [] IPC-9025 [] MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: **Dr. Georgia Ranger, 905 238 8837**

CNSC Licence #: 15-1-11013

Smiths Detection

CERTIFICATE NO.: DT-140504-04

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Fax: 905-238-3018

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: GRanger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63

Nominal activity: 15.00 mCi

System serial No.: 10NSCAN Prototype #100
500 DT

IMS serial No.: 500 DT-7/6

(eg. SAB -, PIMS-, 400B -, 400 -)

Source serial No.: MD 919 / 918

(eg. G-, KT-, KU-)

Collection method: Cotton swab at Sem plan detector surface

Part 2- Leak Test Sample Measurement

Background counts / minute: 2

Sample counts / minute: 2

Net measured radioactivity: φ Bq.

Passed [] Failed* []

Test Performed By: Ivan Santana

Date: May 14 / 04.

Signature: fransy

Test device: Protean Instruments; alpha/beta counter

IPC-9025

MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: Dr. Georgia Ranger, 905 238 8837

CNSC Licence #: 15-1-11013

Smiths Detection

CERTIFICATE NO.: DT-140504-05

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Fax: 905-238-3018

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: GRanger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63

Nominal activity: 15.00 mCi

System serial No.: 10USCAN Prototype J#2
500DT

IMS serial No.: 500DT-7/6
(eg. SAB-, PIMS-, 400B-, 400-)

Source serial No.: MD919/918

(eg. G-, KT-, KU-)

Collection method: Cotton swab at 30cm from detector surface

Part 2- Leak Test Sample Measurement

Background counts / minute: 2

Sample counts / minute: 1

Net measured radioactivity: φ Bq.

Passed [] Failed* []

Test Performed By: Ivan Santana

Date: May 14 /04.

Signature: Ivan Santana

Test device: Protean Instruments; alpha/beta counter

IPC-9025

MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: Dr. Georgia Ranger, 905 238 8837

CNSC Licence #: 15-1-11013

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CERTIFICATE NO.: DT-140504-06

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: GRanger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63 Nominal activity: 15.00 mCi

System serial No.: BUSCAN Prototype
500DT #2 IMS serial No.: 500DT - 7/6

Source serial No.: MD 919/8 (eg. G-, KT-, KU-)

Collection method: Cotton swab taken from detector surface

Part 2- Leak Test Sample Measurement

Background counts / minute: 2 Sample counts / minute: 1

Net measured radioactivity: ϕ Bq. Passed [] Failed* []

Test Performed By: Ivan Santana Date: May 14 2004

Signature: Ivan Santana

Test device: Protean Instruments; alpha/beta counter [] IPC-9025 [] MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: Dr. Georgia Ranger, 905 238 8837

CNSC Licence #: 15-1-11013

Smiths Detection

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CERTIFICATE NO.: S-140504-07

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: GRanger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63

Nominal activity: 15.00 mCi

System serial No.: Sabe 4000 Production prototype #6

IMS serial No.: SAB-1961.F
(eg. SAB -, PIMS-, 400B -, 400 -)

Source serial No.: MD-805

(eg. G-, KT-, KU-)

Collection method: Cotton swab at outer casing of detector (cover open)

Part 2- Leak Test Sample Measurement

Background counts / minute: 2

Sample counts / minute: φ

Net measured radioactivity: φ Bq.

Passed [] Failed* []

Test Performed By: Ivan Santana

Date: May 14 04.

Signature: Ivan Santana

Test device: Protean Instruments: alpha/beta counter

[] IPC-9025 [] MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: Dr. Georgia Ranger, 905 238 8837

CNSC Licence #: 15-1-11013

Smiths Detection

CERTIFICATE NO.: S-140504-08

1730 Aimco Boulevard
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Fax: 905-238-3018

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: G. Ranger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63

Nominal activity: 15.00 mCi

System serial No.: Subie 4000 Production Prototype #6

IMS serial No.: SAB-161.F

(eg. SAB -, PIMS-, 400B -, 400 -)

Source serial No.: MD-805

(eg. G-, KT-, KU-)

Collection method: Cotton swab at outer casing of detector (cover closed)

Part 2- Leak Test Sample Measurement

Background counts / minute: 2

Sample counts / minute: 1

Net measured radioactivity: φ Bq.

Passed [] Failed* []

Test Performed By: Ivan Santana

Date: May 14 /04.

Signature: Ivan Santana

Test device: Protean Instruments; alpha/beta counter

IPC-9025

MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: **Dr. Georgia Ranger, 905 238 8837**

CNSC Licence #: 15-1-11013



Smiths Detection

CERTIFICATE NO.: S-140504-09

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Fax: 905-238-3018

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: GRanger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63

Nominal activity: 15.00 mCi

System serial No.: Scribe 4000 Production Prototype #6

IMS serial No.: SAB - P61. F
(eg. SAB -, PIMS-, 400B -, 400 -)

Source serial No.: MD-805

(eg. G-, KT-, KU-)

Collection method: Cotton swab at detector surface

Part 2- Leak Test Sample Measurement

Background counts / minute: 2

Sample counts / minute: ϕ

Net measured radioactivity: ϕ Bq.

Passed [] Failed* []

Test Performed By: Ivan Santana

Date: May 14 04.

Signature: Ivan Santana

Test device: Protean Instruments; alpha/beta counter

IPC-9025

MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: Dr. Georgia Ranger, 905 238 8837

CNSC Licence #: 15-1-11013

Smiths Detection

CERTIFICATE NO.: S-140504-10

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Fax: 905-238-3018

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: GRanger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63

Nominal activity: 15.00 mCi

System serial No.: Sa bre 4000 Productia Prototype #6

IMS serial No.: SAB-1961.F

(eg. SAB -, PIMS-, 400B -, 400 -)

Source serial No.: MD-805

(eg. G-, KT-, KU-)

Collection method: Cotton swab at 5cm from detector surface

Part 2- Leak Test Sample Measurement

Background counts / minute: 2

Sample counts / minute: ϕ

Net measured radioactivity: ϕ Bq.

Passed [] Failed* []

Test Performed By: Ivan Santana

Date: May 14 /04.

Signature: fransy

Test device: Protean Instruments; alpha/beta counter

IPC-9025

MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: **Dr. Georgia Ranger, 905 238 8837**

CNSC Licence #: 15-1-11013



CERTIFICATE NO.: S-140504-11

Smiths Detection

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Fax: 905-238-3018

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: GRanger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63 -

Nominal activity: 15.00 mCi

System serial No.: Production Prototype #6

IMS serial No.: SAB-1961.F

Source serial No.: Subre 4000 MD-805

(eg. SAB -, PIMS-, 400B -, 400 -)
(eg. G-, KT-, KU-)

Collection method: Cotton swab at 30cm from detector surface

Part 2- Leak Test Sample Measurement

Background counts / minute: 2

Sample counts / minute: φ

Net measured radioactivity: φ Bq.

Passed [] Failed* []

Test Performed By: Ivan Santana

Date: May 14 /04.

Signature: Ivan Santana

Test device: Protean Instruments; alpha/beta counter

IPC-9025 [] MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: **Dr. Georgia Ranger, 905 238 8837**

CNSC Licence #: 15-1-11013

Smiths Detection

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Fax: 905-238-3018

CERTIFICATE NO.: S-140504-12

RADIATION LEAK TEST CERTIFICATE

Part 1- Leak Test Sample Collection

Company name: Smiths Detection License #: 15-1-11013

Address: 1730 Aimco Boulevard, Mississauga, ON L4W 1V1

Phone & fax No.: Ph: 905 238 8837 Fx: 905 238 3018

Date taken: 13 May 2004 Contact person: Georgia Ranger, extension 121

Taken by: Georgia Ranger Signature: GRanger

Type of sample: Q-tip cotton swab

Type of source: Nickel-63

Nominal activity: 15.00 mCi

System serial No.: 3000 4000 Production Prototype #6

IMS serial No.: SAB-1961.F
(eg. SAB-, PIMS-, 400B-, 400-)

Source serial No.: MD-805

(eg. G-, KT-, KU-)

Collection method: Cotton swab at 100cm from detector surface

Part 2- Leak Test Sample Measurement

Background counts / minute: 2

Sample counts / minute: 2

Net measured radioactivity: ϕ Bq.

Passed [] Failed* []

Test Performed By: Ivan Santana

Date: May 14 /04.

Signature: fransj

Test device: Protean Instruments; alpha/beta counter

IPC-9025 [] MPC-9400

* **Rejectable Upper Limit: 200 Bq. (5.4 nCi)**

In case of failure, notify contact listed above, quarantine device, submit second sample.

1 Becquerel (Bq) = 1 disintegration per second (dps) = 27 picocuries (pCi)

Emergency Contact: Dr. Georgia Ranger, 905 238 8837

CNSC Licence #: 15-1-11013