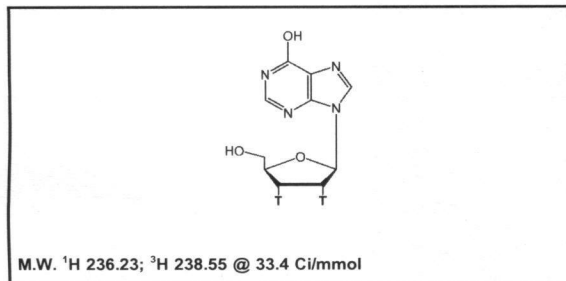




Product Data Sheet

MT-711

2',3'-Dideoxyinosine, [2',3'-³H(N)]-



Lot #: 191-061-0334-A-20091223-JG

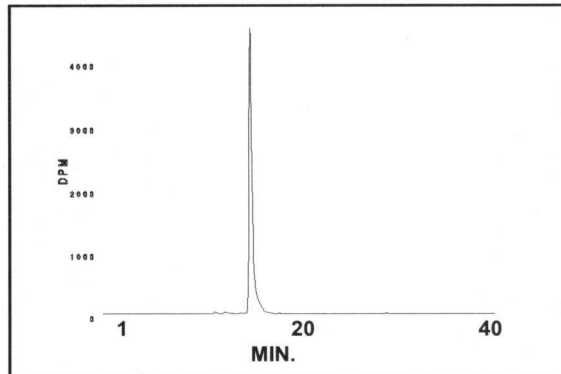
Specific Activity: 33.4 Ci/mmol

Concentration: 1.0 mCi/ml; 7.14 µg/ml

Packaged in: Ethanol : water (1 : 1) solution

Date of Analysis: February 25, 2010

Radiochemical Purity: 99.2%



HPLC ANALYSIS LOT 191-061-0334-A-20091223-JG
File Name: intj1442 Date and Time: 2/25/2010 11:47:16 A
Unit 19 Radio

| Peak # | Area % | Time | Area |
|--------|--------|----------|-------------|
| 1 | 0.27 | 11.44670 | 28.53596 |
| 2 | 99.24 | 15.08330 | 10496.68786 |
| 3 | 0.21 | 15.86670 | 21.87809 |
| 4 | 0.28 | 16.00000 | 29.71493 |
| Totals | 100.00 | | 10576.81684 |

Stability and Storage Recommendation: The rate of decomposition is approximately 0.5% / month for the first six months after purification when stored at -20°C.

Product Warranty: Stated on the reverse side of this Product Data Sheet.

Caution: Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.

MT-711

2',3'-Dideoxyinosine, [2',3'-³H(N)]-

Lot 191-061-0334-A-20091223-JG

A) All chromatograms were run using the HPLC method described on the Product Data Sheet.

Concentrations and volumes:

Standard solution concentration was 1.0 mg/ml.

2',3'-Dideoxyinosine, [2',3'-³H(N)]- concentration was 0.5 mCi/ml.

Volume of standard alone injection was 1.0 µl.

Volume of **2',3'-Dideoxyinosine, [2',3'-³H(N)]-** alone injection was 1.0 µl.

Co-injection solution consisted of 0.5 µl **2',3'-Dideoxyinosine, [2',3'-³H(N)]-** + 1.0 µl standard.

Volume of co-injection was 1.5 µl.

Volume of blank injection was 1.0 µl.

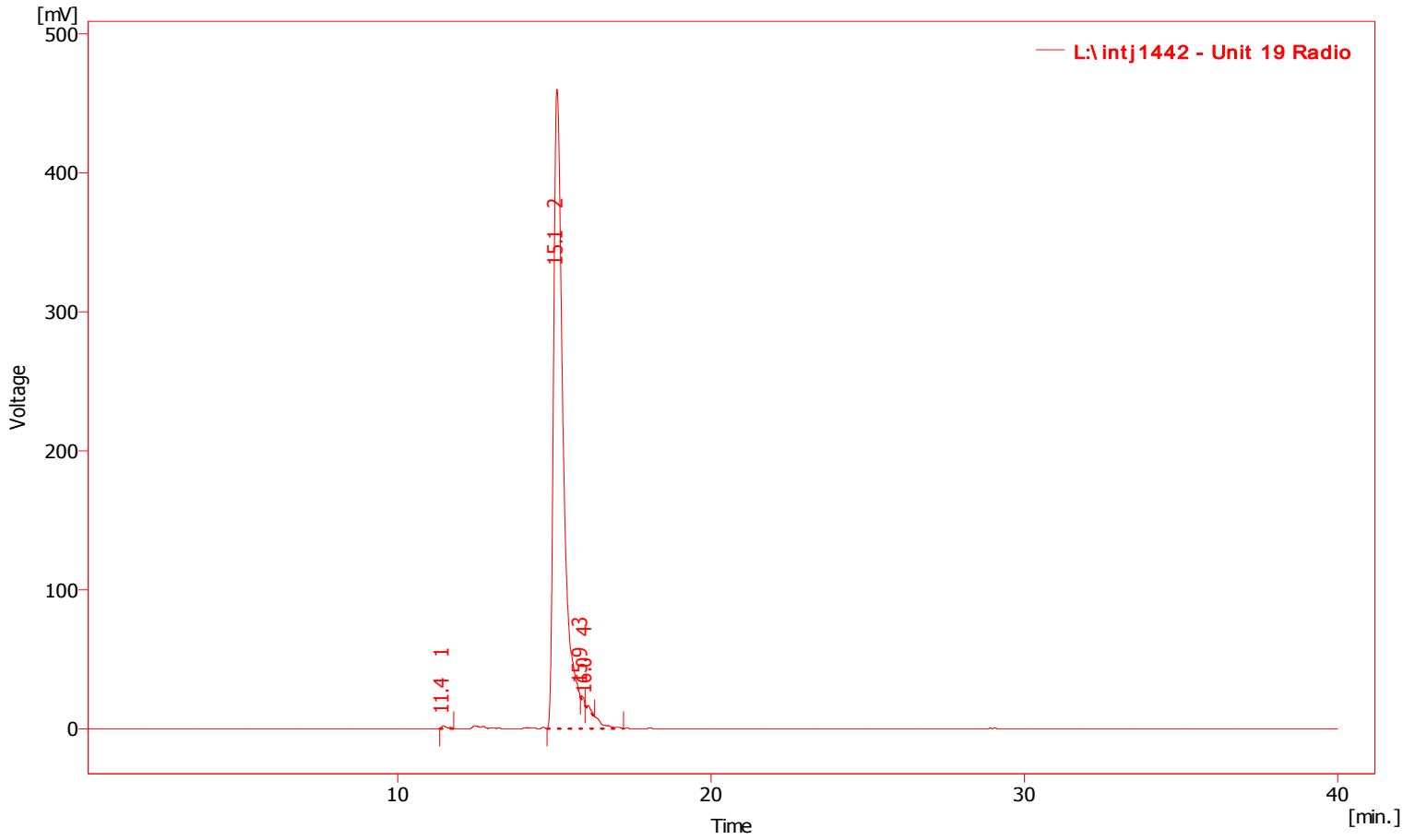
B) Mass spectrometry – Positive mode

C) NMR

MT-711
2',3'-Dideoxyinosine, [2',3'-3H(N)]-
Lot 191-061-0334-A-20091223-JG

Chromatogram Info:

| | | | |
|--------------|---|---------------|-------------------------|
| File Name | : L:\intj1442 | File Created | : 3/7/2014 9:02:47 AM |
| Origin | : Acquired, Acquisition started 2/25/2010 11:07:17 AM | Acquired Date | : 2/25/2010 11:47:16 AM |
| Project | : Test | By | : Administrator |
| Method | : Unit19_40_min_run | By | : Administrator |
| Description | : Radiochemical trace of 3H material alone | Modified | : 3/7/2014 11:13 AM |
| Created | : 8/9/2007 1:12 PM | | |
| Column | : | Detection | : Radiochemical |
| Mobile Phase | : | Temperature | : |
| Flow Rate | : | Pressure | : |
| Note | : | | |



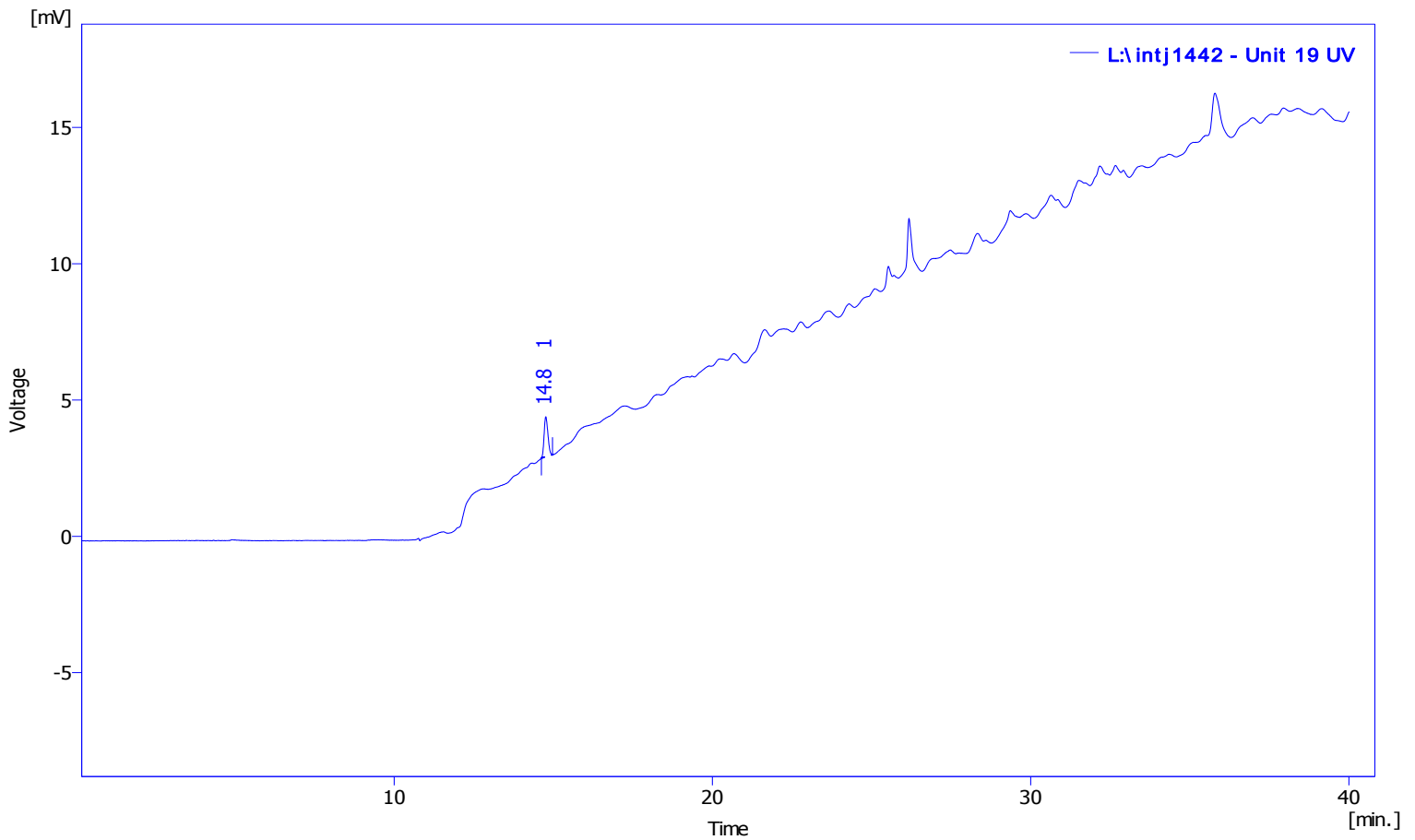
Result Table (Uncal - L:\intj1442 - Unit 19 Radio)

| | Compound Name | Reten. Time [min] | Area [mV.s] | Height [mV] | Area [%] | Height [%] | Efficiency [th.pl] | Eff/I [t.p./m] | Symmetry/Tailing [-] | Response Factor | Resolution [-] |
|---|---------------|-------------------|-------------|-------------|----------|------------|--------------------|----------------|----------------------|-----------------|----------------|
| 1 | | 11.45 | 28.536 | 2.05 | 0.27 | 0.44 | 10368.28 | 207365.53 | 2.13 | | |
| 2 | | 15.08 | 10496.688 | 460.08 | 99.24 | 98.73 | 0.00 | 0.00 | 3.96 | | 8.4 |
| 3 | | 15.87 | 21.878 | 2.89 | 0.21 | 0.62 | 238212.92 | 4764258.42 | 2.20 | | 2.3 |
| 4 | | 16.00 | 29.715 | 0.97 | 0.28 | 0.21 | 53221.26 | 1064425.28 | 7.58 | | 1.0 |
| | | Total | 10576.817 | 465.99 | 100.00 | 100.00 | | | | | |

MT-711
2',3'-Dideoxyinosine, [2',3'-3H(N)]-
Lot 191-061-0334-A-20091223-JG

Chromatogram Info:

| | | | |
|--------------|---|---------------|-------------------------|
| File Name | : L:\intj1442 | File Created | : 3/7/2014 9:02:47 AM |
| Origin | : Acquired, Acquisition started 2/25/2010 11:07:17 AM | Acquired Date | : 2/25/2010 11:47:16 AM |
| Project | : Test | By | : Administrator |
| Method | : Unit19_40_min_run | By | : Administrator |
| Description | : UV trace of 3H material alone | Modified | : 3/7/2014 11:12 AM |
| Created | : 8/9/2007 1:12 PM | | |
| Column | : | Detection | : UV 249nm |
| Mobile Phase | : | Temperature | : |
| Flow Rate | : | Pressure | : |
| Note | : | | |



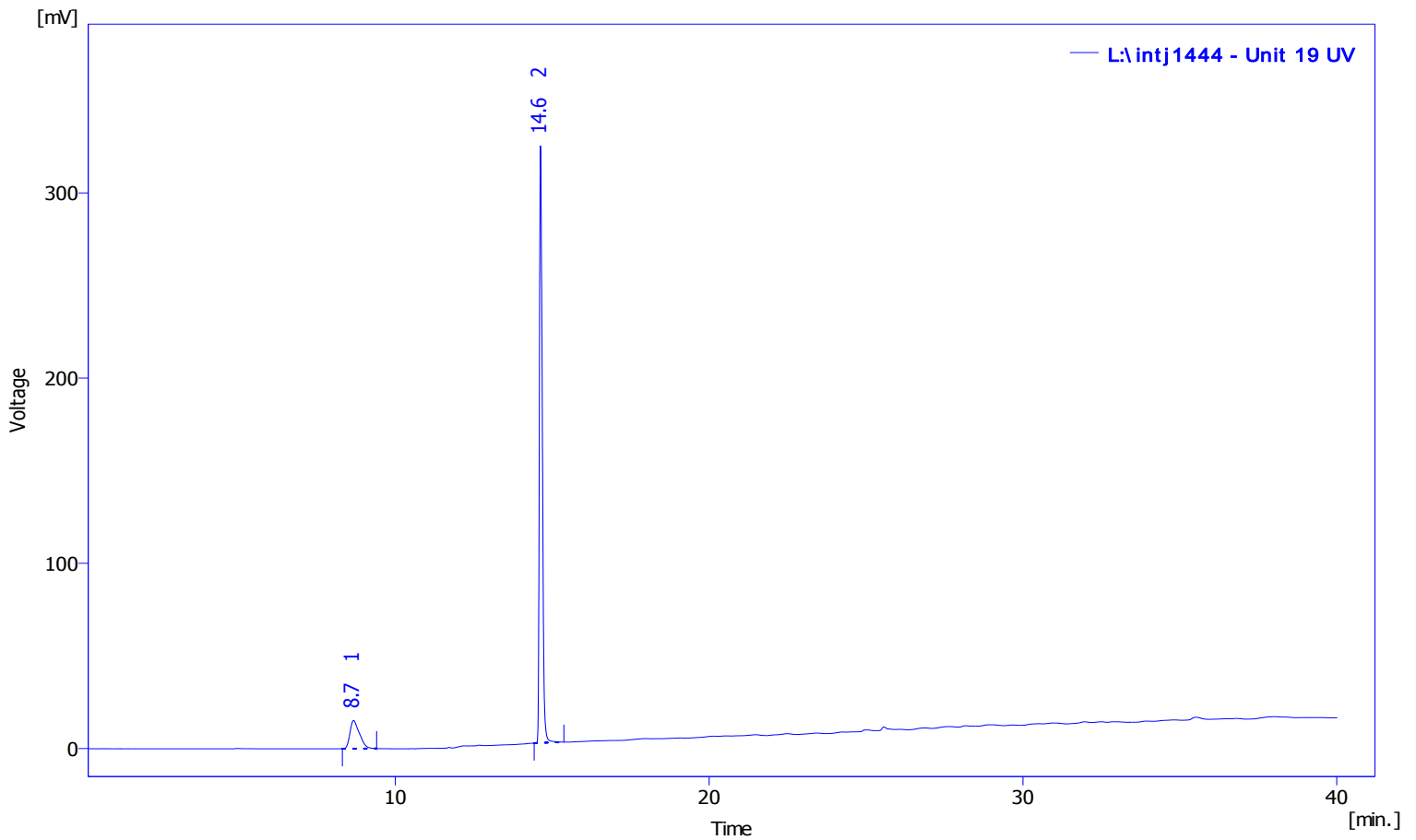
Result Table (Uncal - L:\intj1442 - Unit 19 UV)

| | Compound Name | Reten. Time [min] | Area [mV.s] | Height [mV] | Area [%] | Height [%] | Efficiency [th.pl] | Eff/I [t.p./m] | Symmetry/Tailing [-] | Response Factor | Resolution [-] |
|---|---------------|-------------------|-------------|-------------|----------|------------|--------------------|----------------|----------------------|-----------------|----------------|
| 1 | | 14.77 | 12.120 | 1.47 | 100.00 | 100.00 | 72896.76 | 1457935.25 | 1.18 | | |
| | | Total | 12.120 | 1.47 | 100.00 | 100.00 | | | | | |

MT-711
2',3'-Dideoxyinosine, [2',3'-3H(N)]-
Lot 191-061-0334-A-20091223-JG

Chromatogram Info:

| | | | |
|--------------|--|---------------|------------------------|
| File Name | : L:\intj1444 | File Created | : 3/7/2014 9:02:47 AM |
| Origin | : Acquired, Acquisition started 2/25/2010 1:22:10 PM | Acquired Date | : 2/25/2010 2:02:09 PM |
| Project | : Test | By | : Administrator |
| Method | : Unit19_40_min_run | By | : Administrator |
| Description | : UV trace of standard material alone | Modified | : 3/7/2014 11:14 AM |
| Created | : 8/9/2007 1:12 PM | | |
| Column | : | Detection | : UV 249nm |
| Mobile Phase | : | Temperature | : |
| Flow Rate | : | Pressure | : |
| Note | : | | |



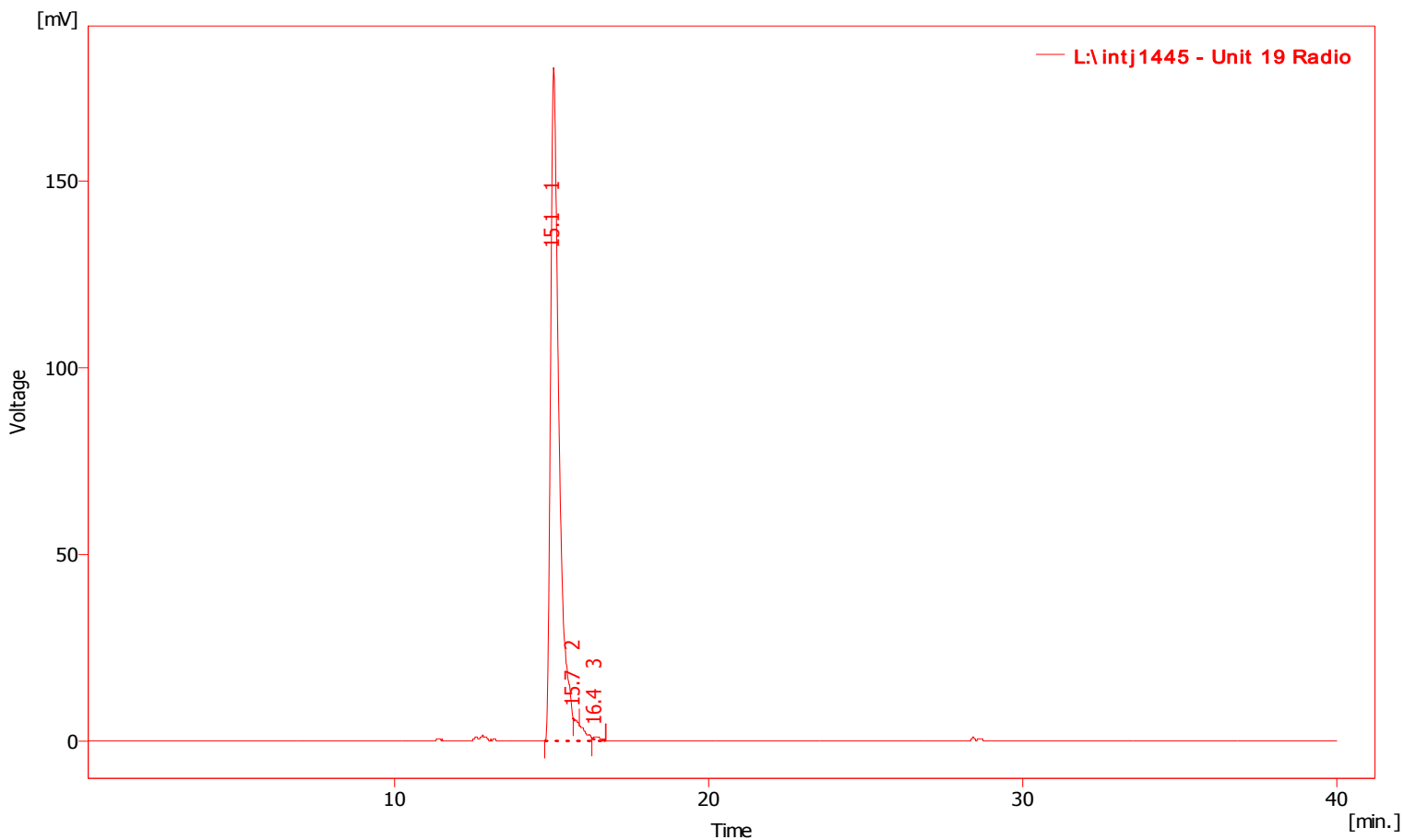
Result Table (Uncal - L:\intj1444 - Unit 19 UV)

| | Compound Name | Reten. Time [min] | Area [mV.s] | Height [mV] | Area [%] | Height [%] | Efficiency [th.pl] | Eff/I [t.p./m] | Symmetry/Tailing [-] | Response Factor | Resolution [-] |
|---|---------------|-------------------|-------------|-------------|----------|------------|--------------------|----------------|----------------------|-----------------|----------------|
| 1 | | 8.67 | 318.130 | 15.25 | 13.15 | 4.52 | 3432.34 | 68646.86 | 1.46 | | |
| 2 | | 14.63 | 2101.951 | 322.32 | 86.85 | 95.48 | 69513.69 | 1390273.86 | 1.39 | | 16.2 |
| | | Total | 2420.081 | 337.57 | 100.00 | 100.00 | | | | | |

MT-711
2',3'-Dideoxyinosine, [2',3'-3H(N)]-
Lot 191-061-0334-A-20091223-JG

Chromatogram Info:

| | | | |
|--------------|--|---------------|------------------------|
| File Name | : L:\intj1445 | File Created | : 3/7/2014 9:02:48 AM |
| Origin | : Acquired, Acquisition started 2/25/2010 2:28:43 PM | Acquired Date | : 2/25/2010 3:08:41 PM |
| Project | : Test | By | : Administrator |
| Method | : Unit19_40_min_run | By | : Administrator |
| Description | : Radiochemical trace of 3H material co-injected with standard | | |
| Created | : 8/9/2007 1:12 PM | Modified | : 3/7/2014 11:16 AM |
| Column | : | Detection | : Radiochemical |
| Mobile Phase | : | Temperature | : |
| Flow Rate | : | Pressure | : |
| Note | : | | |



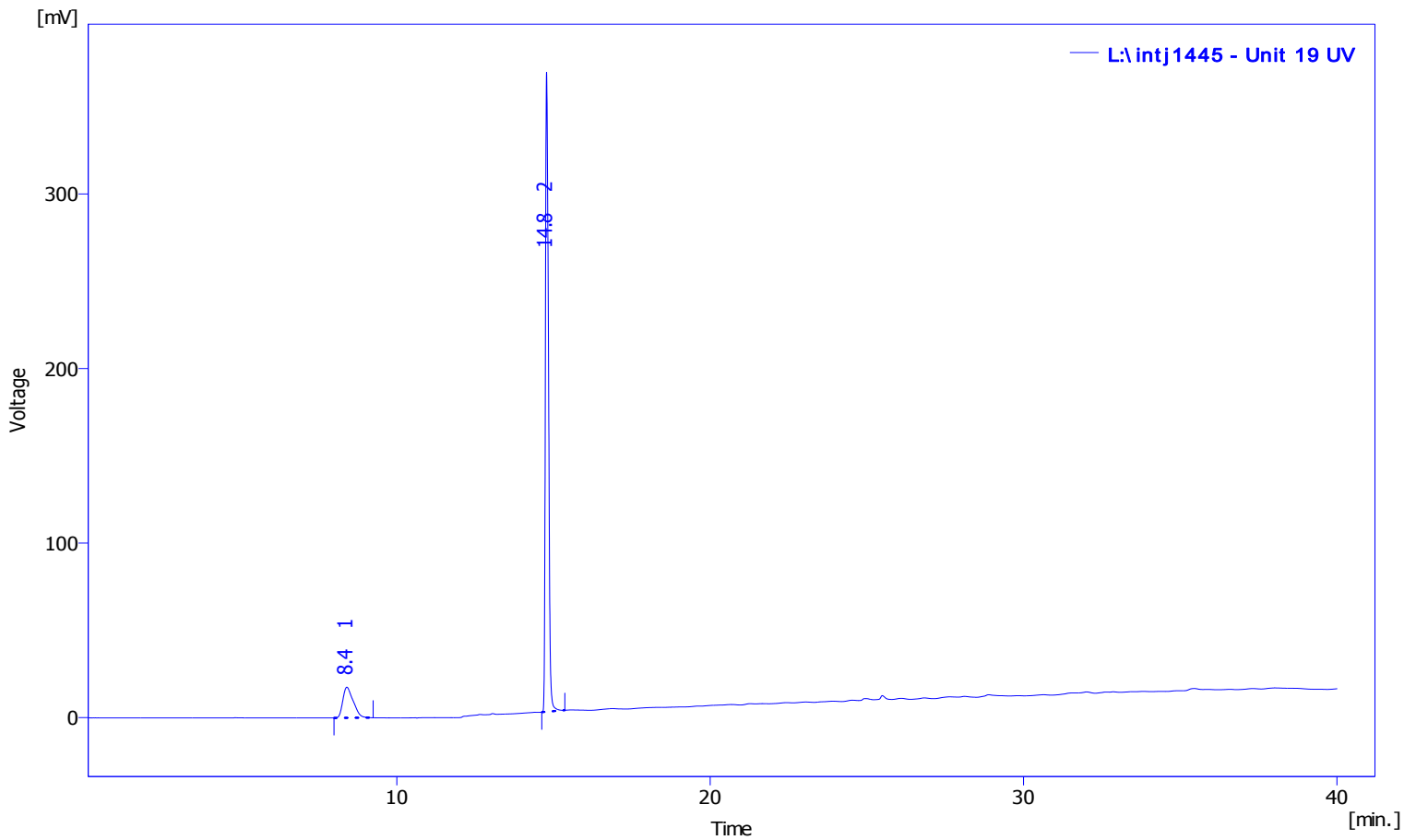
Result Table (Uncal - L:\intj1445 - Unit 19 Radio)

| | Compound Name | Reten. Time [min] | Area [mV.s] | Height [mV] | Area [%] | Height [%] | Efficiency [th.pl] | Eff/I [t.p./m] | Symmetry/Tailing [-] | Response Factor | Resolution [-] |
|---|---------------|-------------------|-------------|-------------|----------|------------|--------------------|----------------|----------------------|-----------------|----------------|
| 1 | | 15.06 | 3513.653 | 180.29 | 99.49 | 99.45 | 0.00 | 0.00 | 3.71 | | |
| 2 | | 15.72 | 4.760 | 0.35 | 0.13 | 0.19 | 122663.40 | 2453267.94 | 2.90 | | 2.5 |
| 3 | | 16.40 | 13.118 | 0.65 | 0.37 | 0.36 | 23569.27 | 471385.34 | 2.18 | | 3.2 |
| | | Total | 3531.532 | 181.28 | 100.00 | 100.00 | | | | | |

MT-711
2',3'-Dideoxyinosine, [2',3'-3H(N)]-
Lot 191-061-0334-A-20091223-JG

Chromatogram Info:

| | | | |
|--------------|--|---------------|------------------------|
| File Name | : L:\intj1445 | File Created | : 3/7/2014 9:02:48 AM |
| Origin | : Acquired, Acquisition started 2/25/2010 2:28:43 PM | Acquired Date | : 2/25/2010 3:08:41 PM |
| Project | : Test | By | : Administrator |
| Method | : Unit19_40_min_run | By | : Administrator |
| Description | : UV trace of 3H material co-injected with standard | Modified | : 3/7/2014 11:15 AM |
| Created | : 8/9/2007 1:12 PM | | |
| Column | : | Detection | : UV 249nm |
| Mobile Phase | : | Temperature | : |
| Flow Rate | : | Pressure | : |
| Note | : | | |



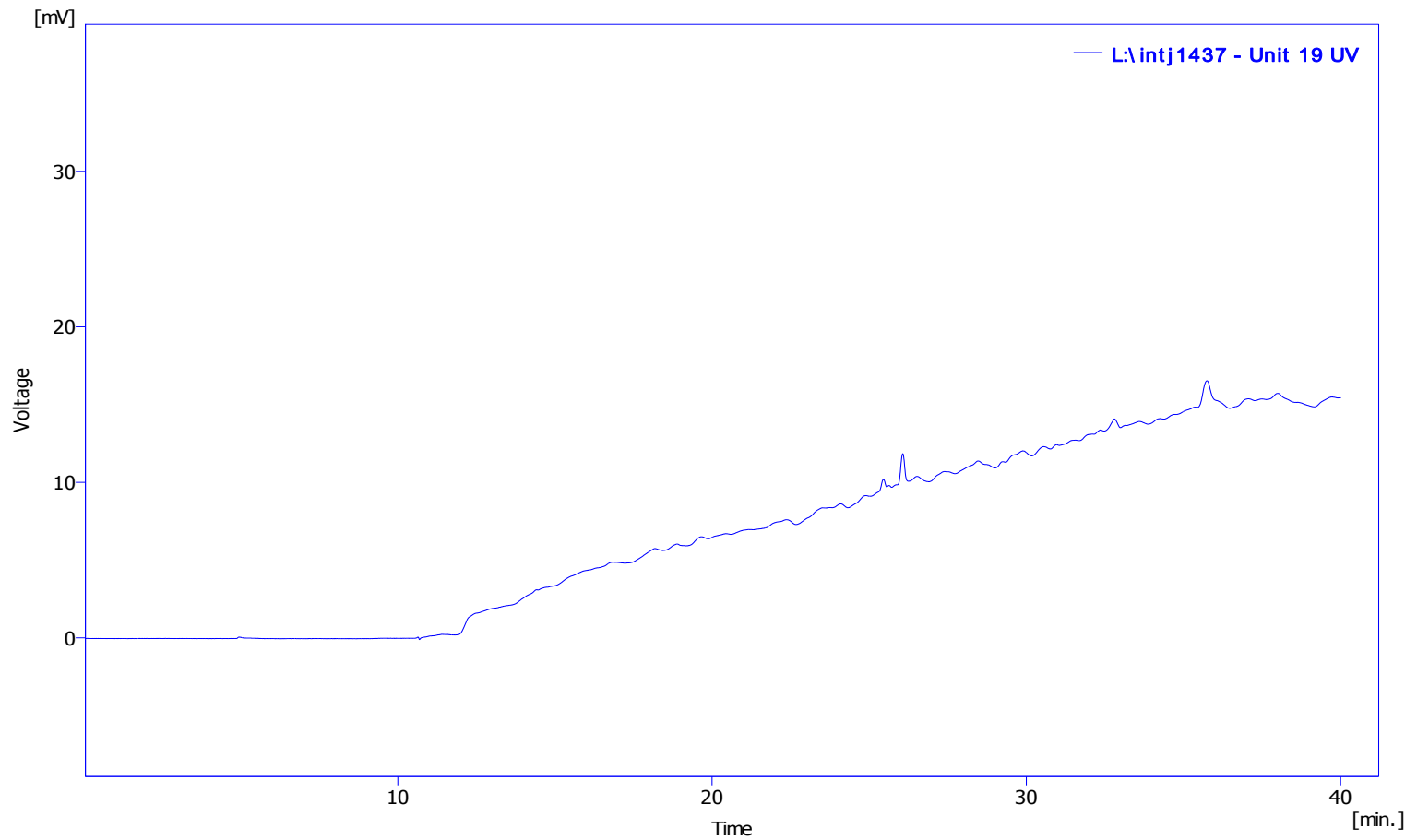
Result Table (Uncal - L:\intj1445 - Unit 19 UV)

| | Compound Name | Reten. Time [min] | Area [mV.s] | Height [mV] | Area [%] | Height [%] | Efficiency [th.pl] | Eff/I [t.p./m] | Symmetry/Tailing [-] | Response Factor | Resolution [-] |
|---|---------------|-------------------|-------------|-------------|----------|------------|--------------------|----------------|----------------------|-----------------|----------------|
| 1 | | 8.41 | 403.992 | 17.60 | 13.94 | 4.58 | 2771.41 | 55428.20 | 1.41 | | |
| 2 | | 14.78 | 2494.274 | 366.31 | 86.06 | 95.42 | 80395.96 | 1607919.27 | 1.32 | | 15.8 |
| | | Total | 2898.266 | 383.91 | 100.00 | 100.00 | | | | | |

MT-711
2',3'-Dideoxyinosine, [2',3'-3H(N)]-
Lot 191-061-0334-A-20091223-JG

Chromatogram Info:

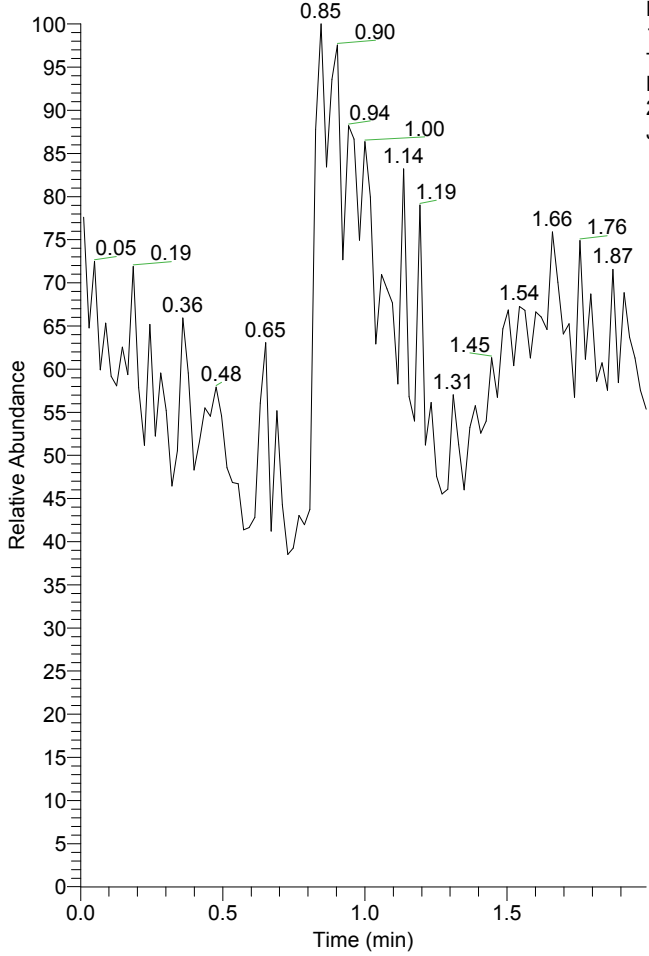
| | | | |
|--------------|--|---------------|------------------------|
| File Name | : L:\intj1437 | File Created | : 3/7/2014 9:02:48 AM |
| Origin | : Acquired, Acquisition started 2/24/2010 2:16:15 PM | Acquired Date | : 2/24/2010 2:56:14 PM |
| Project | : Test | By | : Administrator |
| Method | : Unit19_40_min_run | By | : Administrator |
| Description | : UV trace of blank injection | Modified | : 3/7/2014 11:17 AM |
| Created | : 8/9/2007 1:12 PM | | |
| Column | : | Detection | : UV 249nm |
| Mobile Phase | : | Temperature | : |
| Flow Rate | : | Pressure | : |
| Note | : | | |



Result Table (Uncal - L:\intj1437 - Unit 19 UV)

| Compound Name | Reten. Time [min] | Area [mV.s] | Height [mV] | Area [%] | Height [%] | Efficiency [th.pl] | Eff/I [t.p./m] | Symmetry/Tailing [-] | Response Factor | Resolution [-] |
|-------------------|-------------------|-------------|-------------|----------|------------|--------------------|----------------|----------------------|-----------------|----------------|
| No peak to report | | | | | | | | | | |

RT: 0.00 - 1.99



NL: 1.52E8
TIC MS
MT711-20091223-JG-MS

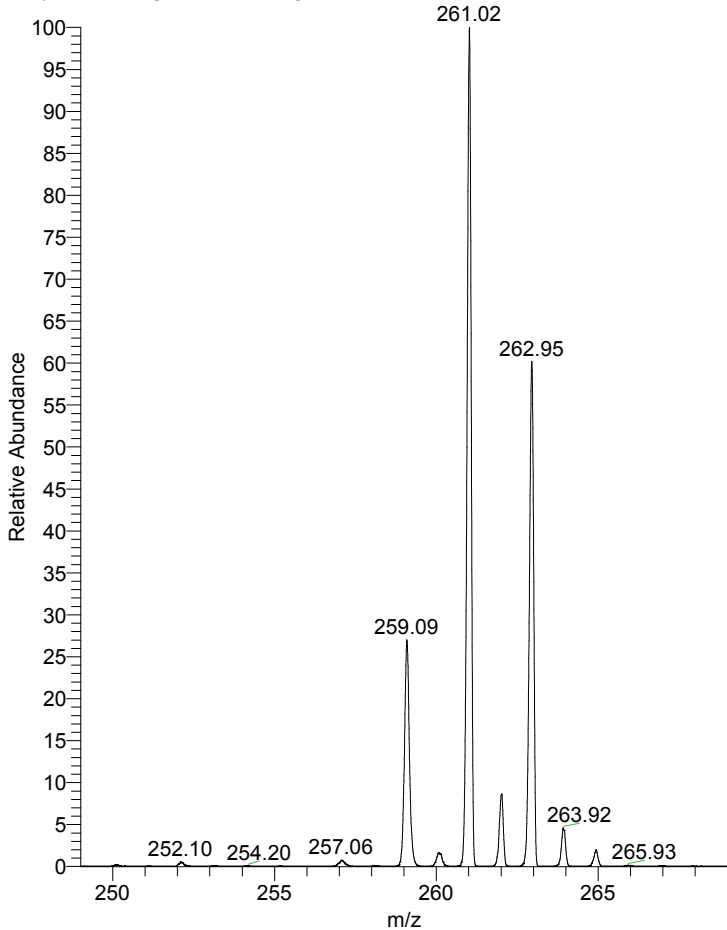
MT711-20091223-JG-MS#1-103 RT: 0.01-1.99

T: + p NSI Z ms [249.00-269.00]

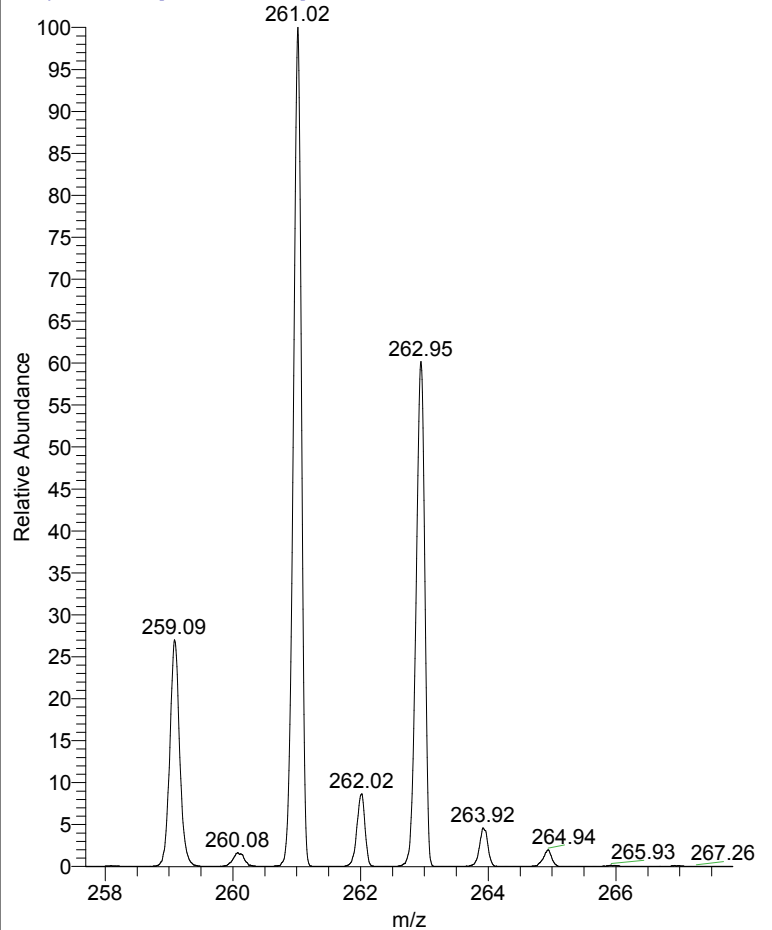
m/z = 257.94-267.27

| m/z | Intensity | Relative |
|--------|------------|----------|
| 258.09 | 55202.7 | 0.13 |
| 259.09 | 13930426.0 | 32.92 |
| 260.09 | 993139.6 | 2.35 |
| 261.01 | 42314792.0 | 100.00 |
| 262.00 | 3709696.5 | 8.77 |
| 262.93 | 27550404.0 | 65.11 |
| 263.92 | 2043310.9 | 4.83 |
| 264.92 | 904930.7 | 2.14 |
| 265.95 | 83151.5 | 0.20 |
| 266.96 | 57492.0 | 0.14 |

MT711-20091223-JG-MS #1-103 RT: 0.01-1.99 AV: 103 NL: 1.45E6
T: + p NSI Z ms [249.00-269.00]



MT711-20091223-JG-MS #1-103 RT: 0.01-1.99 AV: 103 NL: 1.45E6
T: + p NSI Z ms [249.00-269.00]



MT711 3H NMR in MeOD
Batch 20091223-JG



BRUKER

2.585
2.565
2.553
2.546
2.508
2.489
2.154
2.125
2.114

NAME MT711-20091223-JG
EXPNO 1
PROCNO 1
Date_ 20100208
Time_ 15.12
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 5000
DS 2
SWH 6172.839 Hz
FIDRES 0.376760 Hz
AQ 1.3271540 sec
RG 46341
DW 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 2.0000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 3H
P1 10.00 usec
PL1 2.00 dB
SF01 320.1321857 MHz
SI 32768
SF 320.1305850 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

