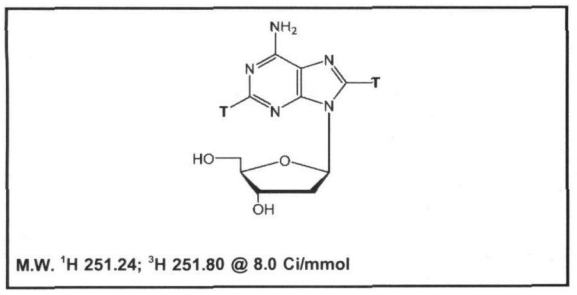
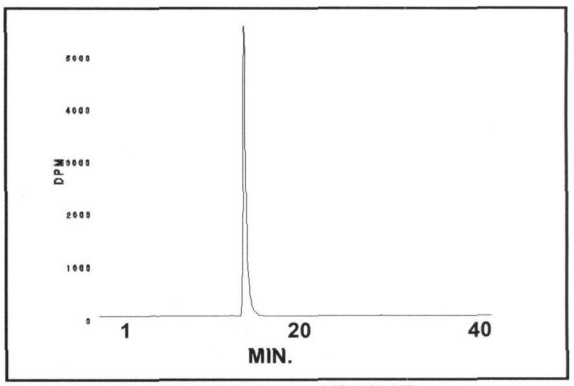
Product Data Sheet

MT-641

2'-Deoxyadenosine, [2,8-^{3}H]-



M.W. ^{1}H 251.24; ^{3}H 251.80 @ 8.0 Ci/mmol



HPLC ANALYSIS LOT 194-036-008-A-20100128-NT
File Name: intj1458 Date and Time: 3/2/2010 11:40:50 AM
Unit 19 Radio

Peak #	Area %	Time	Area
1	0.17	13.56000	20.69475
2	99.83	14.85000	12345.62992
Totals	100.00		12366.32467

Lot #: 194-036-008-A-20100128-NT

Specific Activity: 8.0 Ci/mmol

Concentration: 1.0 mCi/ml; 31.47 *µ*g/ml

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

Date of Analysis: March 02, 2010

Radiochemical Purity: 99.8%

Stability and Storage Recommendation: The rate of decomposition is approximately 1% / 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.

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MT-641

2'-Deoxyadenosine, [2,8-^{3}H]-

Lot 194-036-008-A-20100128-NT

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'-Deoxyadenosine, [2,8-^{3}H]- concentration was 0.5 mCi/ml.

Volume of standard alone injection was 1.5 µl.

Volume of **2'-Deoxyadenosine, [2,8-^{3}H]-** alone injection was 1.5 µl.

Co-injection solution consisted of 1.5 µl **2'-Deoxyadenosine, [2,8-^{3}H]-** + 1.5 µl standard.

Volume of co-injection was 3.0 µl.

Volume of blank injection was 1.5 µl.

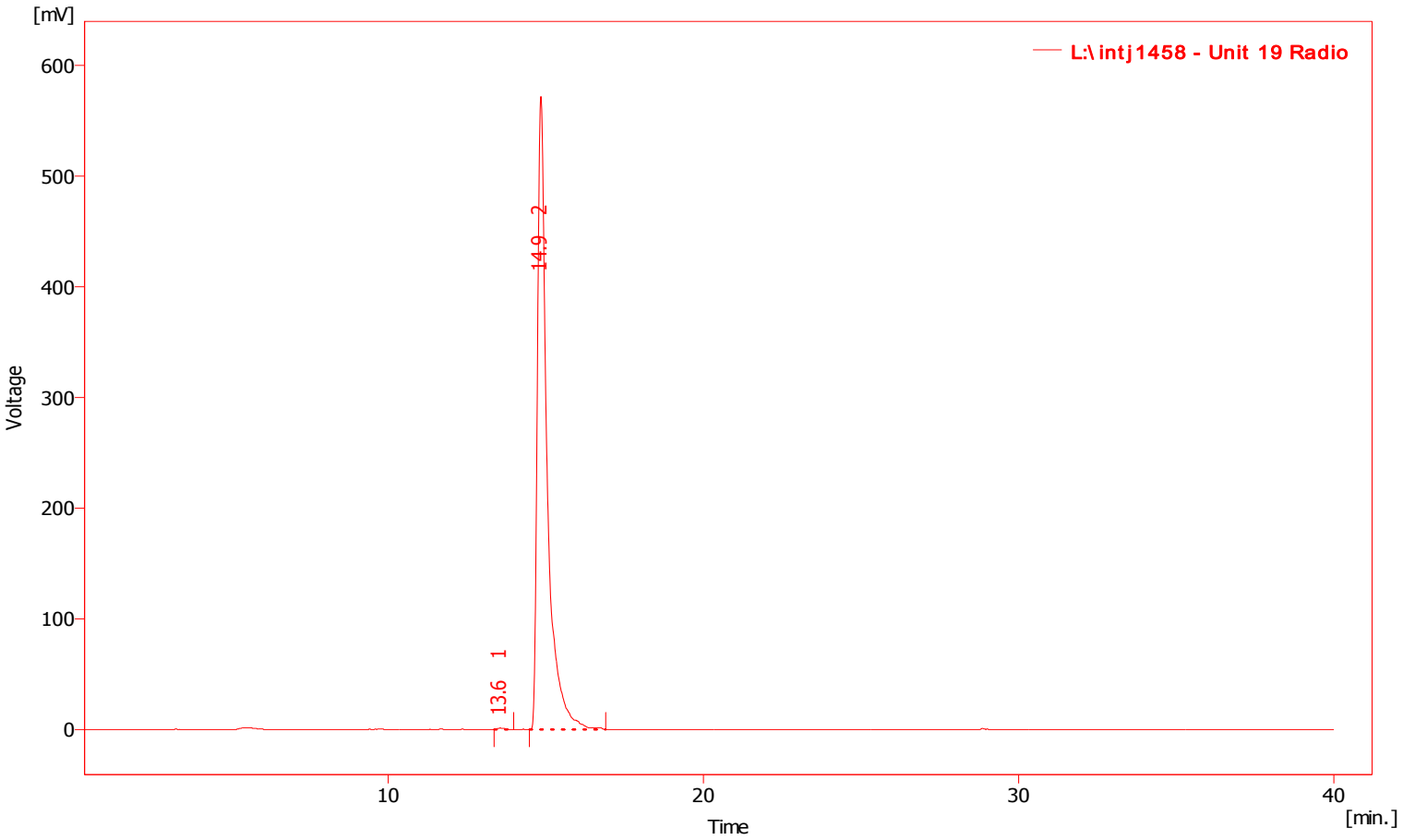
B) Mass spectrometry – Positive mode

C) NMR

MT-641
2'-Deoxyadenosine, [2,8-3H]-
Lot 194-036-008-A-20100128-NT

Chromatogram Info:

File Name	: L:\intj1458	File Created	: 2/27/2014 10:46:14 AM
Origin	: Acquired, Acquisition started 3/2/2010 11:00:52 AM	Acquired Date	: 3/2/2010 11:40:50 AM
Project	: Test	By	: Administrator
Method	: Unit19_40_min_run	By	: Administrator
Description	: Radiochemical trace of 3H material alone		
Created	: 8/9/2007 1:12 PM	Modified	: 2/27/2014 11:15 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



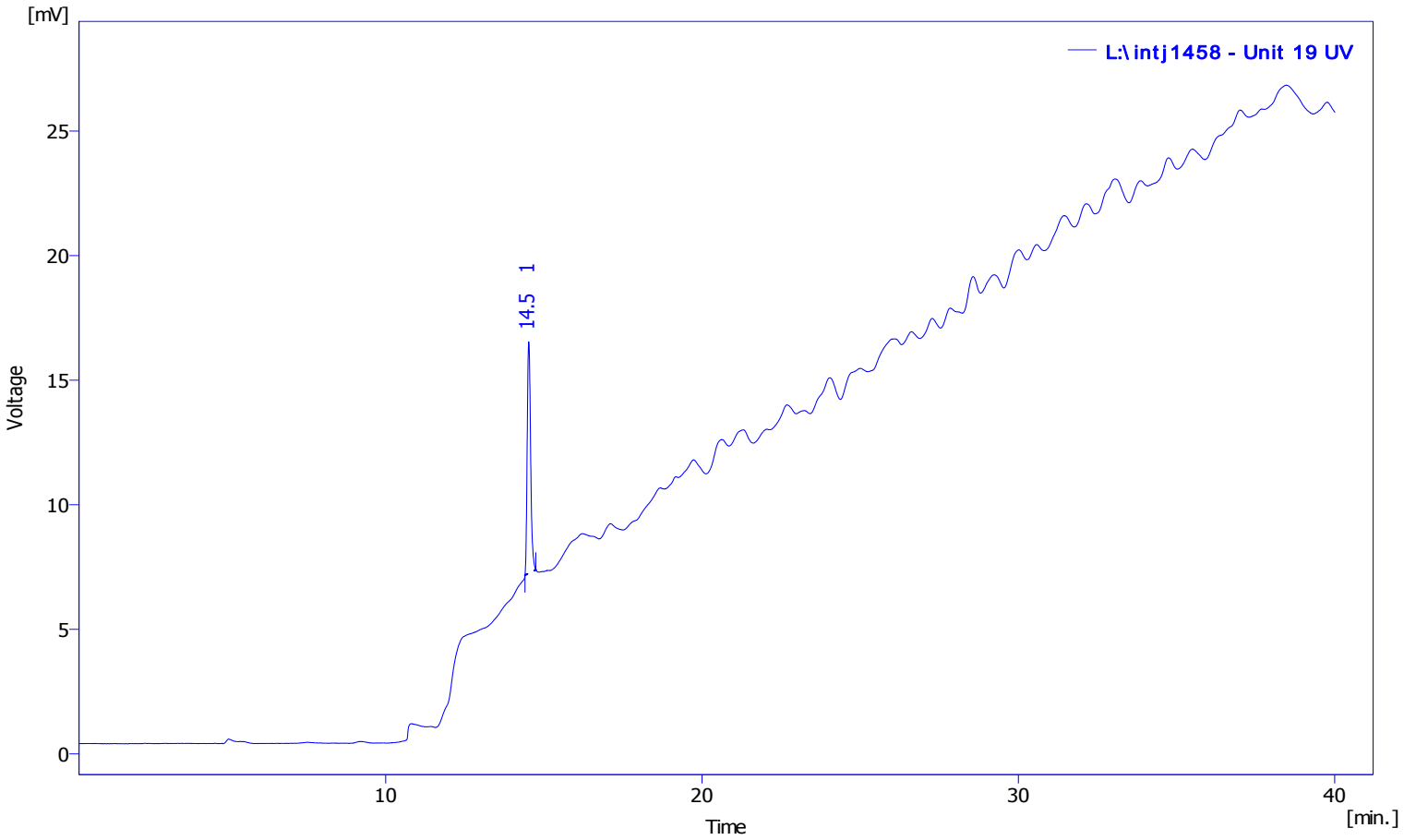
Result Table (Uncal - L:\intj1458 - Unit 19 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		13.56	20.695	1.59	0.17	0.28	20815.05	416301.07	1.46		
2		14.85	12345.630	571.81	99.83	99.72	3152.11	63042.24	2.02		2.8
		Total	12366.325	573.39	100.00	100.00					

MT-641
2'-Deoxyadenosine, [2,8-3H]-
Lot 194-036-008-A-20100128-NT

Chromatogram Info:

File Name	: L:\intj1458	File Created	: 2/27/2014 10:46:14 AM
Origin	: Acquired, Acquisition started 3/2/2010 11:00:52 AM	Acquired Date	: 3/2/2010 11:40:50 AM
Project	: Test	By	: Administrator
Method	: Unit19_40_min_run	By	: Administrator
Description	: UV trace of 3H material alone		
Created	: 8/9/2007 1:12 PM	Modified	: 2/27/2014 11:14 AM
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



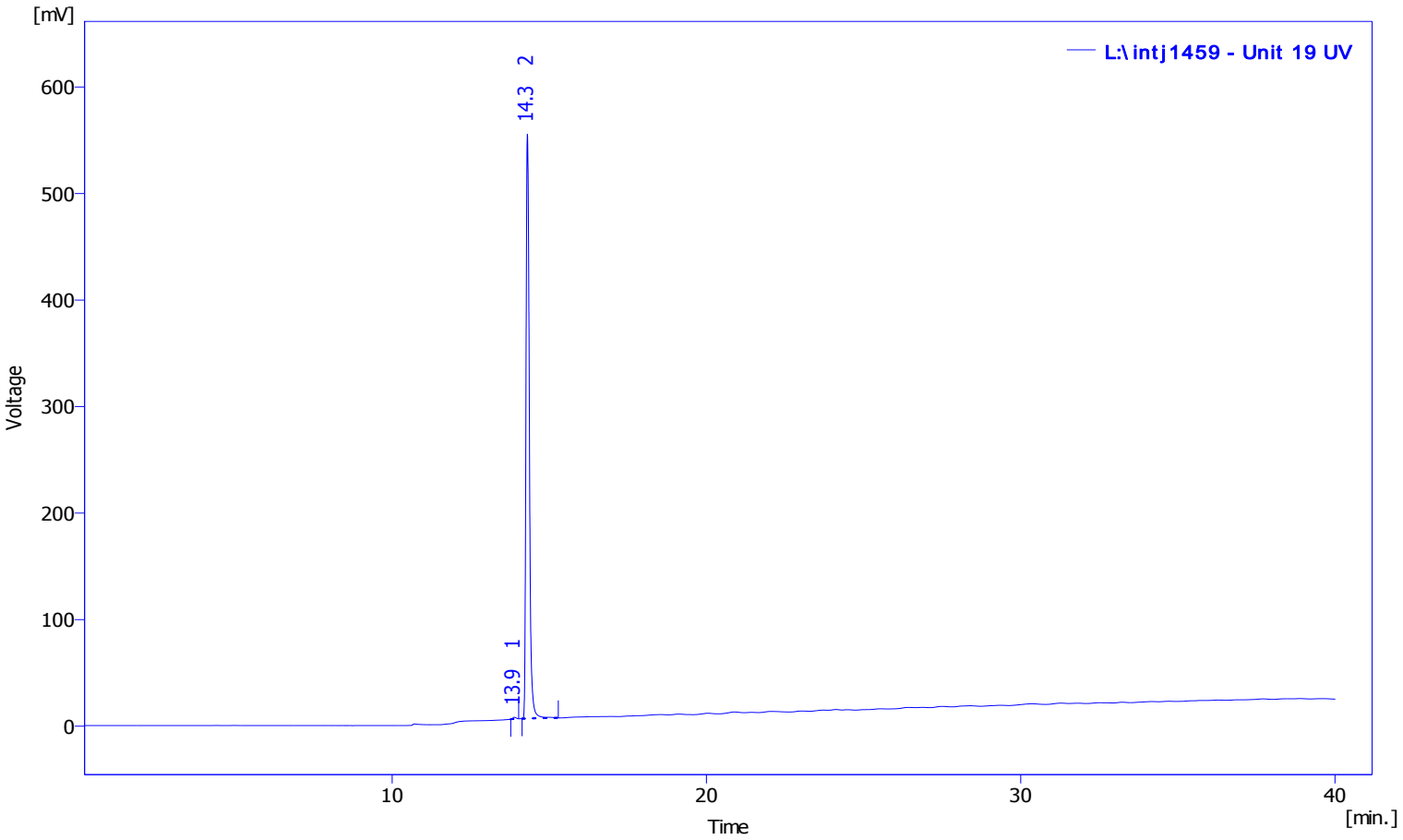
Result Table (Uncal - L:\intj1458 - Unit 19 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		14.52	69.459	9.29	100.00	100.00	80281.03	1605620.54	1.28		
		Total	69.459	9.29	100.00	100.00					

MT-641
2'-Deoxyadenosine, [2,8-3H]-
Lot 194-036-008-A-20100128-NT

Chromatogram Info:

File Name	: L:\intj1459	File Created	: 2/27/2014 10:46:14 AM
Origin	: Acquired, Acquisition started 3/2/2010 12:12:14 PM	Acquired Date	: 3/2/2010 12:52:13 PM
Project	: Test	By	: Administrator
Method	: Unit19_40_min_run	By	: Administrator
Description	: UV trace of standard material alone		
Created	: 8/9/2007 1:12 PM	Modified	: 2/27/2014 11:16 AM
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



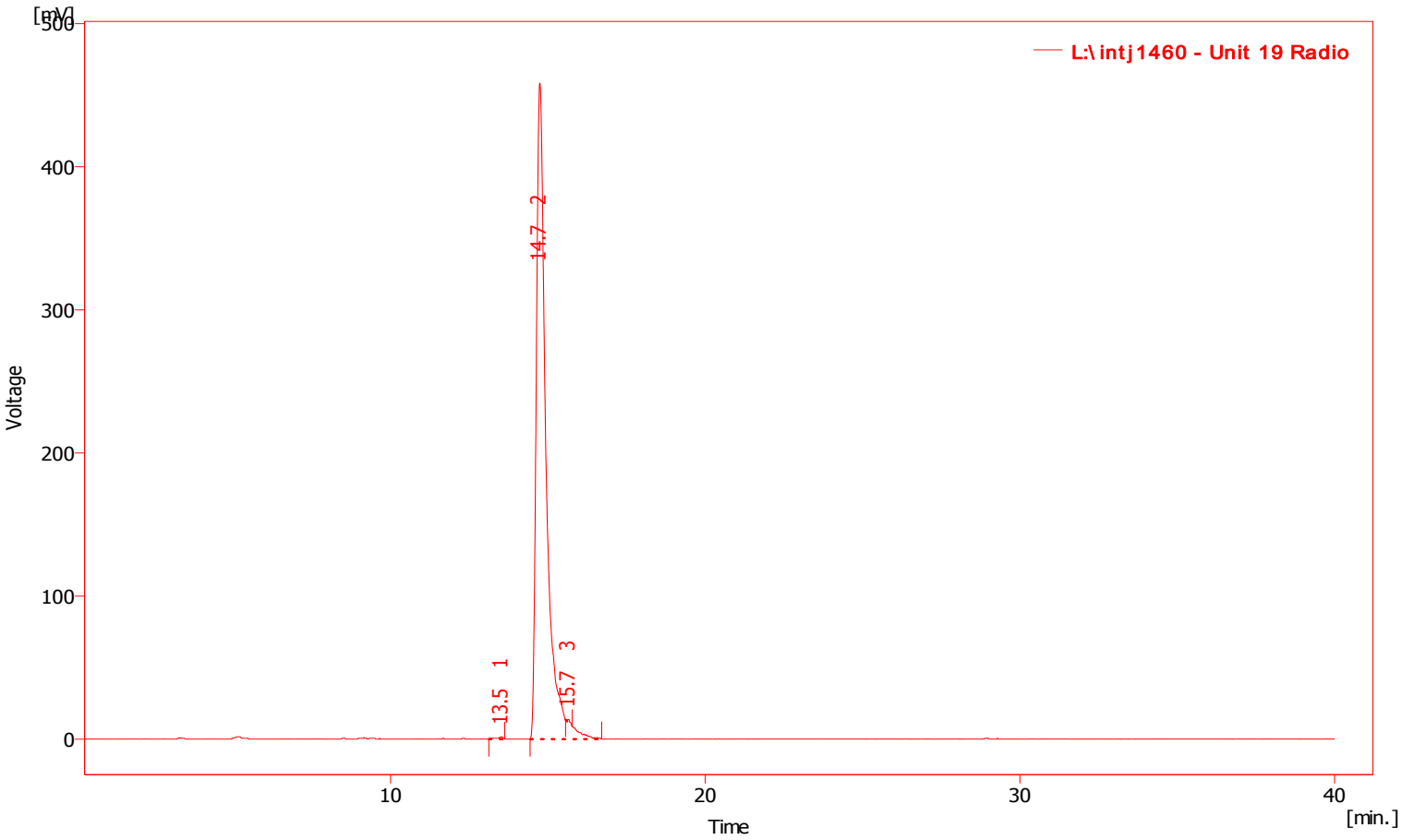
Result Table (Uncal - L:\intj1459 - Unit 19 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		13.88	12.167	1.62	0.30	0.29	91842.34	1836846.70	1.12		
2		14.30	4078.715	548.67	99.70	99.71	37894.17	757883.47	1.36		2.0
		Total	4090.882	550.29	100.00	100.00					

MT-641
2'-Deoxyadenosine, [2,8-3H]-
Lot 194-036-008-A-20100128-NT

Chromatogram Info:

File Name	: L:\intj1460	File Created	: 2/27/2014 10:46:15 AM
Origin	: Acquired, Acquisition started 3/2/2010 1:28:47 PM	Acquired Date	: 3/2/2010 2:08:46 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	: 2/27/2014 11:18 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intj1460 - Unit 19 Radio)

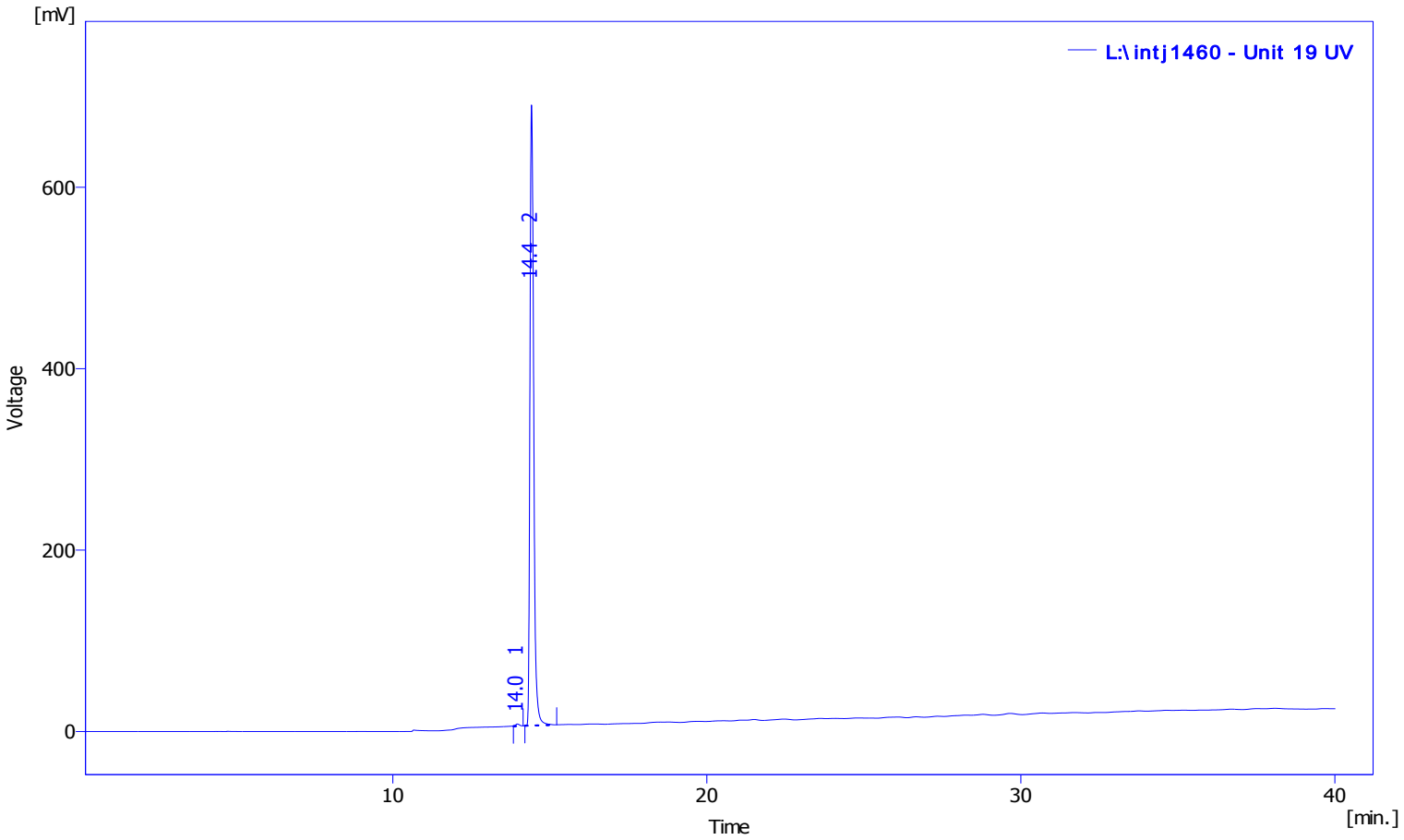
	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		13.53	22.567	1.59	0.22	0.34	9732.62	194652.50	0.61		
2		14.75	10019.795	458.37	99.61	99.07	0.00	0.00	3.67		3.1
3		15.67	16.193	2.72	0.16	0.59	138404.12	2768082.32	0.97		2.5
		Total	10058.555	462.68	100.00	100.00					

MT-641
2'-Deoxyadenosine, [2,8-3H]-
Lot 194-036-008-A-20100128-NT

Chromatogram Info:

File Name	: L:\intj1460	File Created	: 2/27/2014 10:46:15 AM
Origin	: Acquired, Acquisition started 3/2/2010 1:28:47 PM	Acquired Date	: 3/2/2010 2:08:46 PM
Project	: Test	By	: Administrator

Method	: Unit19_40_min_run	By	: Administrator
Description	: UV trace of 3H material co-injected with standard		
Created	: 8/9/2007 1:12 PM	Modified	: 2/27/2014 11:17 AM
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



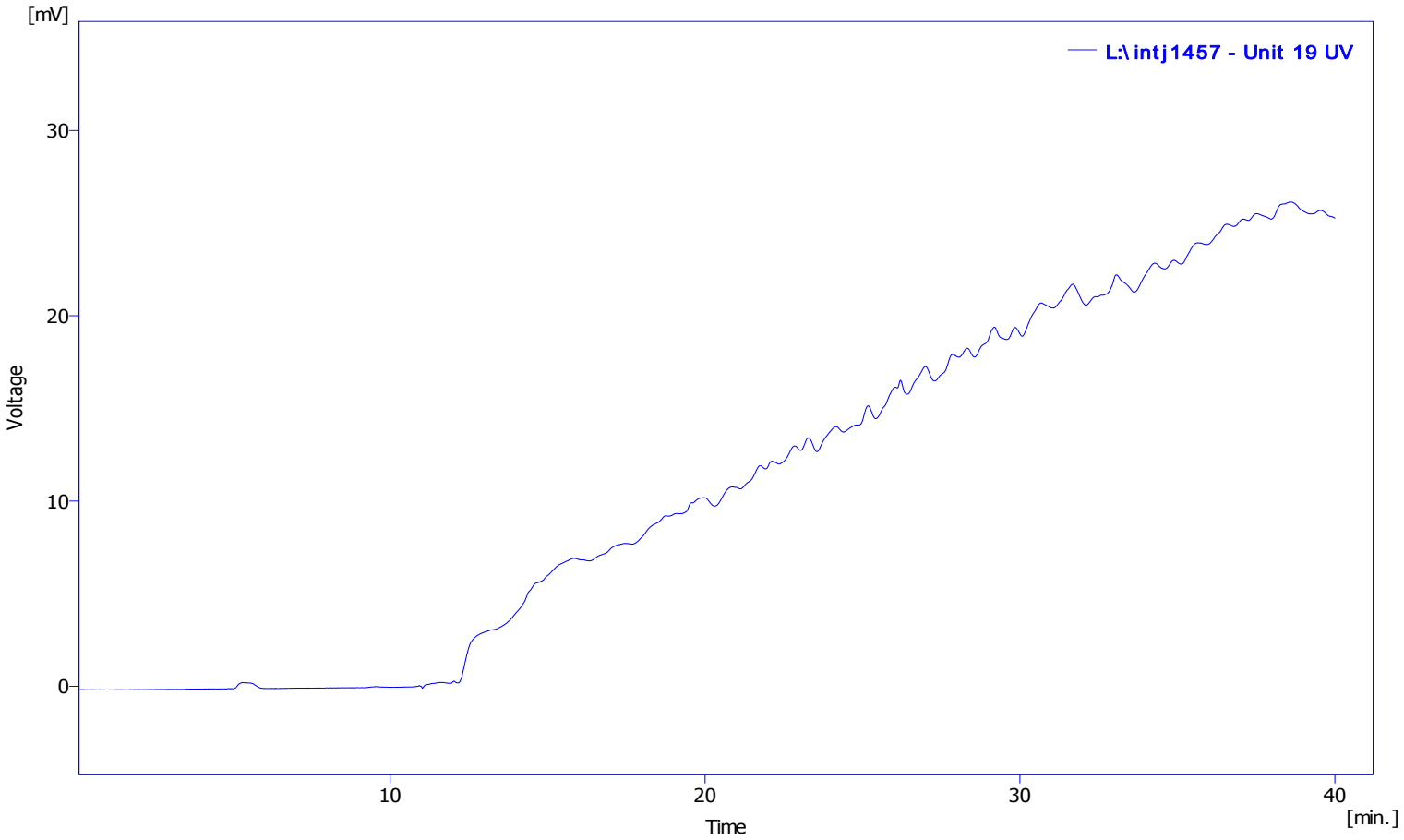
Result Table (Uncal - L:\intj1460 - Unit 19 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		13.96	17.186	2.20	0.30	0.32	78939.14	1578782.72	1.19		
2		14.42	5685.004	684.08	99.70	99.68	42637.46	852749.12	1.37		2.1
		Total	5702.190	686.27	100.00	100.00					

MT-641
2'-Deoxyadenosine, [2,8-3H]-
Lot 194-036-008-A-20100128-NT

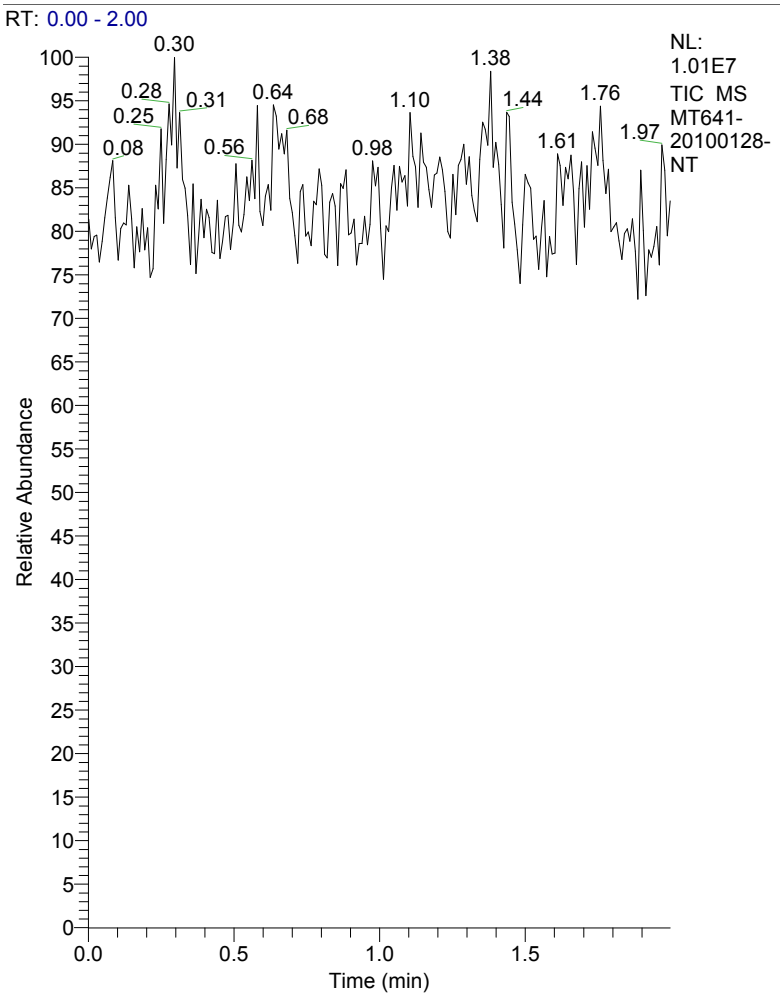
Chromatogram Info:

File Name	: L:\intj1457	File Created	: 2/27/2014 10:46:14 AM
Origin	: Acquired, Acquisition started 3/2/2010 9:46:04 AM	Acquired Date	: 3/2/2010 10:26:02 AM
Project	: Test	By	: Administrator
Method	: Unit19_40_min_run	By	: Administrator
Description	: UV trace of blank injection		
Created	: 8/9/2007 1:12 PM	Modified	: 2/27/2014 11:19 AM
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



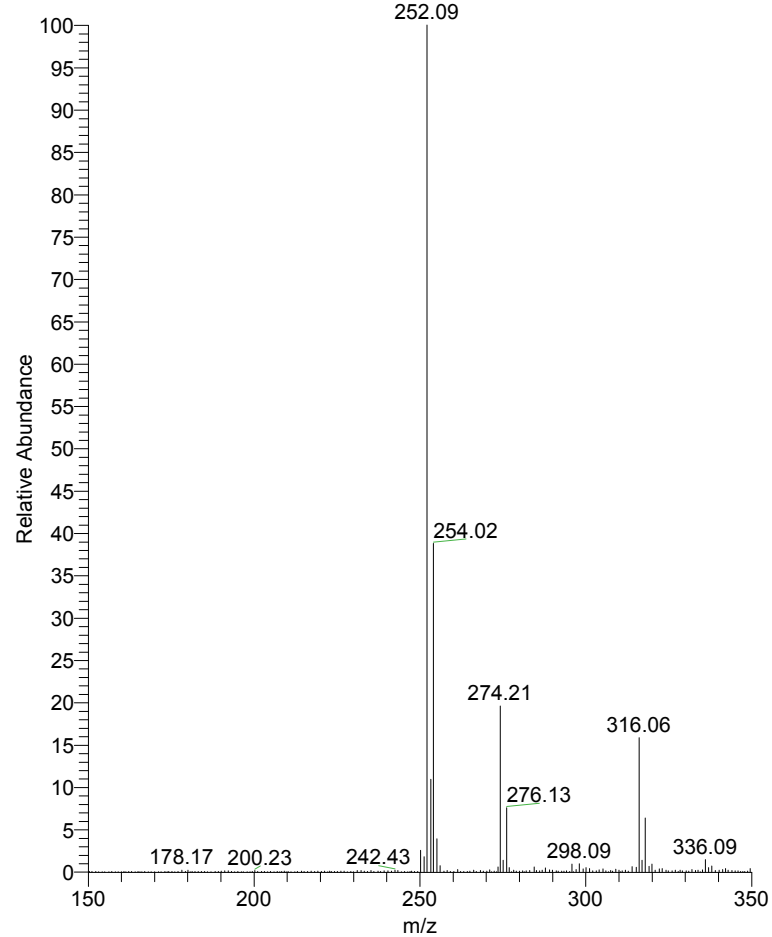
Result Table (Uncal - L:\intj1457 - Unit 19 UV)

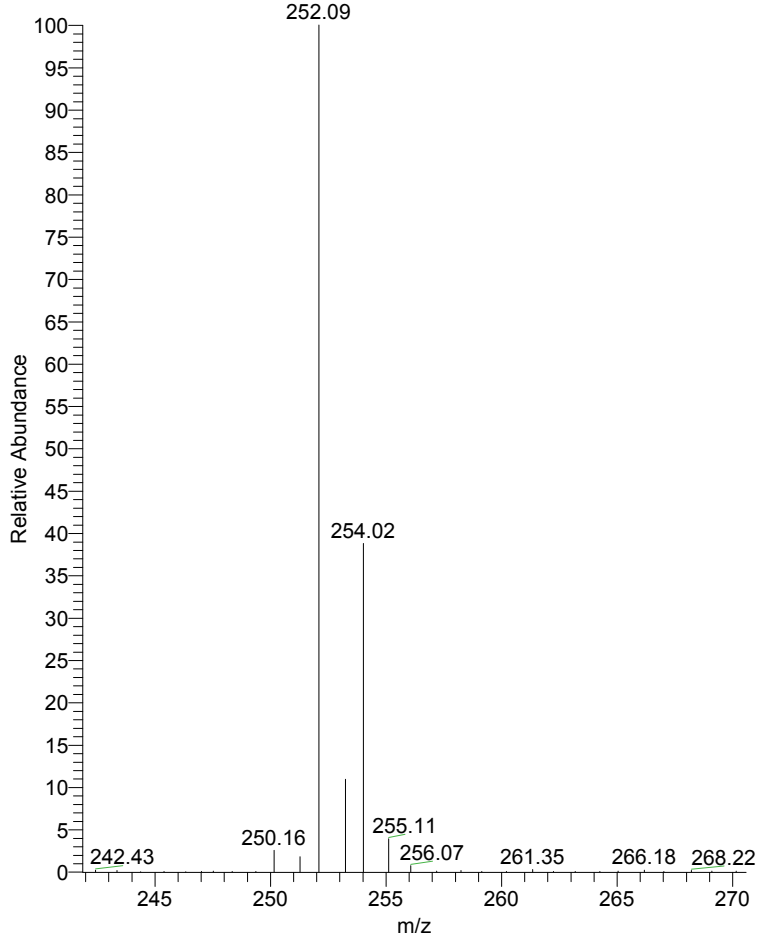
Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
No peak to report										



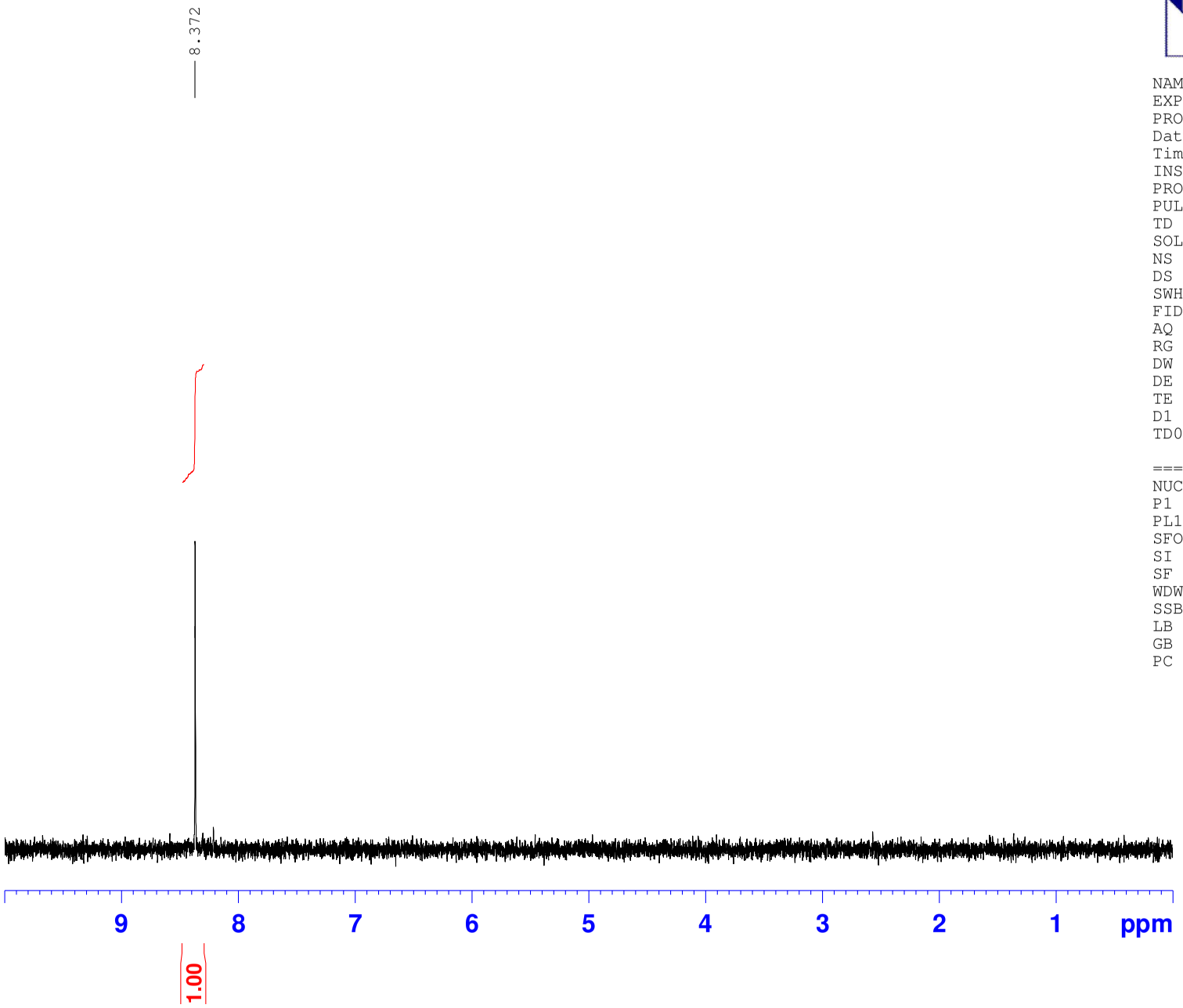
MT641-20100128-NT#1-218 RT: 0.00-2.00 AV:
T: + c NSI Full ms [150.00-350.00]
m/z= 248.94-261.44

m/z	Intensity	Relative
251.27	63050.3	1.81
252.09	3487550.1	100.00
253.24	382002.5	10.95
254.02	1352712.1	38.79
255.11	136022.3	3.90
256.07	26287.4	0.75
257.20	3822.9	0.11
258.24	5847.6	0.17
259.14	1829.6	0.05
260.21	2564.2	0.07
261.35	10003.6	0.29





MT641 3H NMR in MeOD
Batch 20100128-NT



NAME	MT641-20100128-NT
EXPNO	1
PROCNO	1
Date_	20100302
Time	20.57
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	2.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	3H
P1	10.00 usec
PL1	2.00 dB
SFO1	320.1321857 MHz
SI	32768
SF	320.1305850 MHz
WDW	no
SSB	0
LB	0.00 Hz
GB	0
PC	1.00