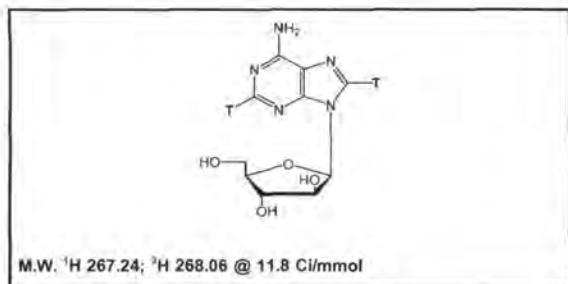




Product Data Sheet

MT-635

Adenine- β -D-arabinofuranoside, [2,8- 3 H]-



Lot #: 217-044-0118-A-20110816-TNG

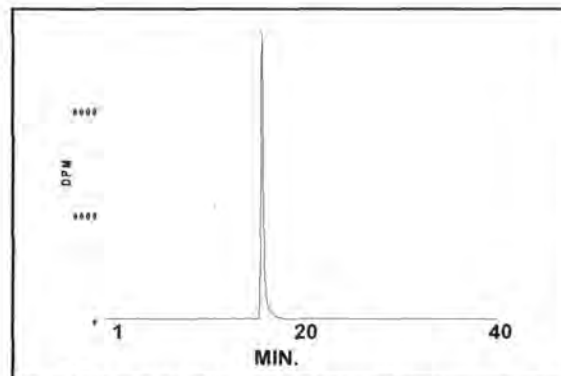
Specific Activity: 11.8 Ci/mmol

Concentration: 1.0 mCi/ml; 22.72 μ g/ml

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

Date of Analysis: November 30, 2011

Radiochemical Purity: 98.5%



HPLC ANALYSIS LOT 217-044-0118-A-20110816-TNG
File Name: Int21397 Date and Time: 11/30/2011 3:39:24 P
Unit 2 Radio

Peak #	Area %	Time	Area
1	0.20	3.23330	31.24970
2	0.30	12.98670	46.83533
3	0.73	14.43330	115.39332
4	98.58	15.94000	15540.83057
5	0.20	16.92670	31.04354
Totals	100.00		15765.35246

Stability and Storage Recommendation: The rate of decomposition is approximately 0.5-1% / 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.

MT-635

Adenine- β -D-arabinofuranoside, [2,8- 3 H]-

Lot 217-044-0118-A-20110816-TNG

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

Concentrations and volumes:

Standard solution concentration was 0.25 mg/ml.

Adenine- β -D-arabinofuranoside, [2,8- 3 H]- concentration was 0.2 mCi/ml.

Volume of standard alone injection was 1.0 μ l.

Volume of **Adenine- β -D-arabinofuranoside, [2,8- 3 H]-** alone injection was 1.5 μ l.

Co-injection solution consisted of 1.0 μ l **Adenine- β -D-arabinofuranoside, [2,8- 3 H]-** + 1.0 μ l standard.

Volume of co-injection was 2.0 μ l.

Volume of blank injection was 1.5 μ l.

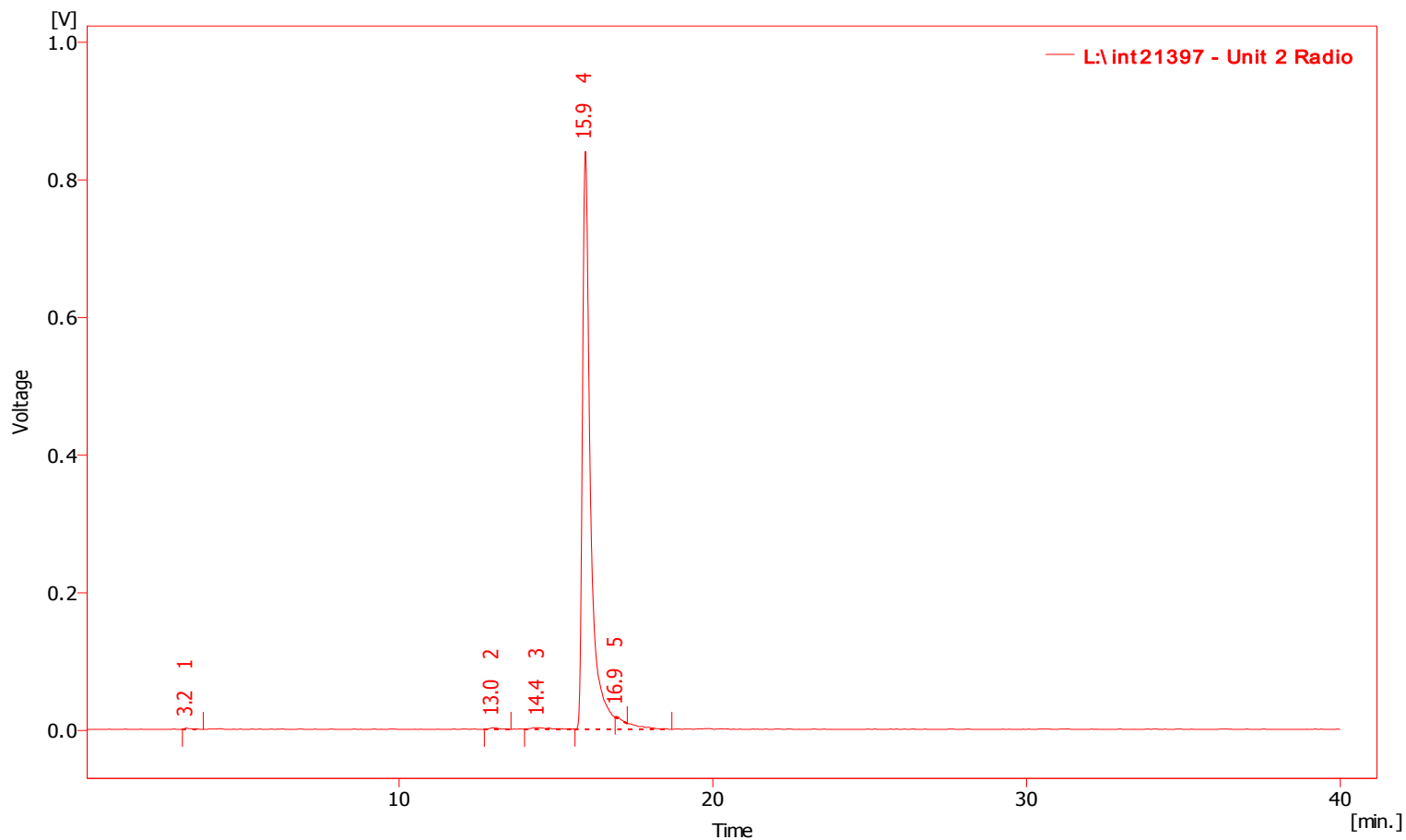
B) Mass spectrometry – Positive mode

C) NMR

MT-635
Adenine- β -D-arabinofuranoside, [2,8-3H]-
Lot 217-044-0118-A-20110816-TNG

Chromatogram Info:

File Name	: L:\int21397	File Created	: 2/26/2014 3:47:01 PM
Origin	: Acquired, Acquisition started 11/30/2011 2:59:25 PM	Acquired Date	: 11/30/2011 3:39:24 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 2/26/2014 4:00 PM
Created	: 6/16/2007 8:19 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



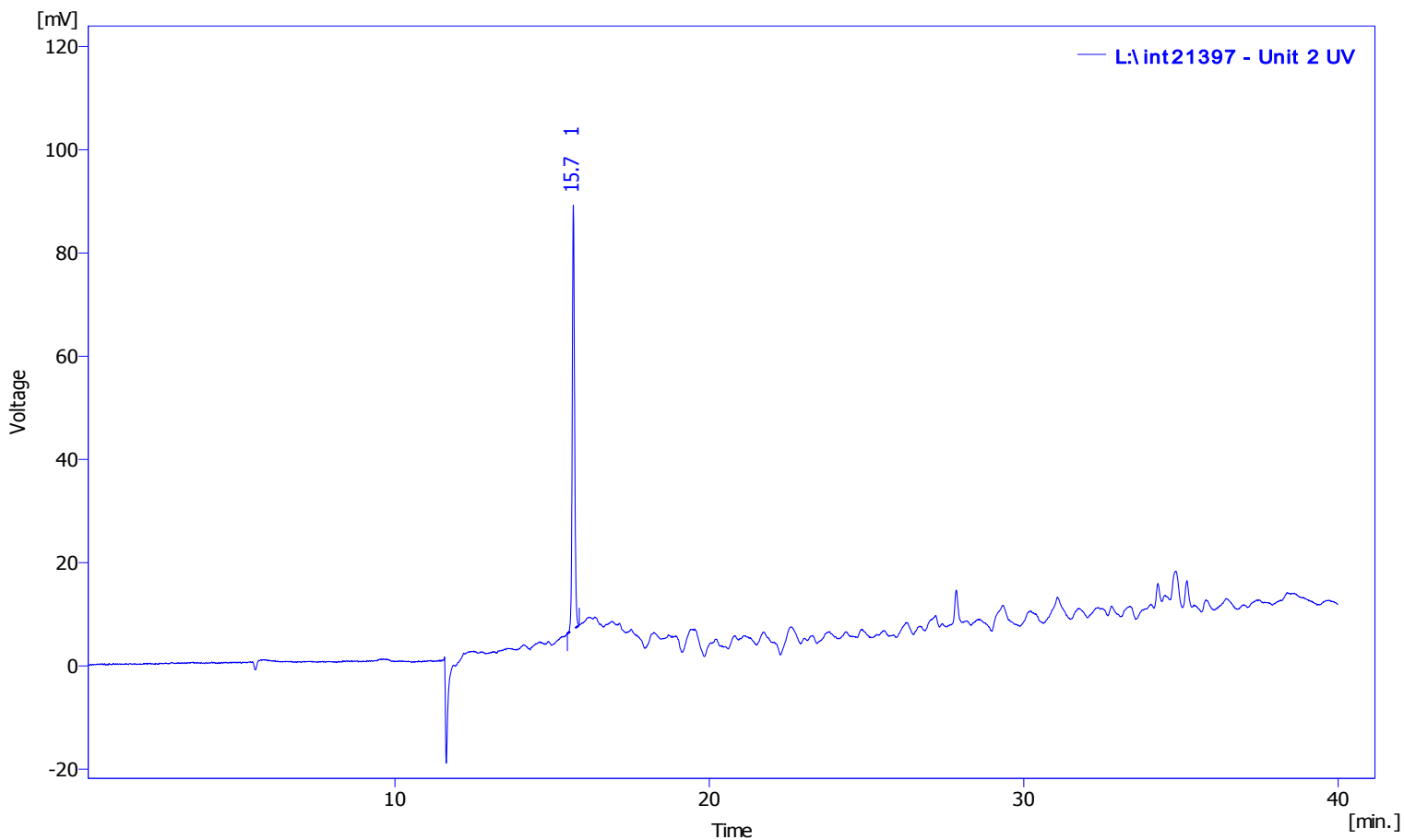
Result Table (Uncal - L:\int21397 - Unit 2 Radio)

	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		3.23	31.250	1.94	0.20	0.23	775.22	15504.42	2.05		
2		12.99	46.835	2.42	0.30	0.29	10858.81	217176.24	1.53		20.3
3		14.43	115.393	2.84	0.73	0.33	3067.96	61359.23	1.82		1.9
4		15.94	15540.831	839.67	98.58	98.90	23134.79	462695.70	4.57		2.1
5		16.93	31.044	2.15	0.20	0.25	123576.91	2471538.16	4.75		3.2
		Total	15765.352	849.03	100.00	100.00					

MT-635
Adenine- β -D-arabinofuranoside, [2,8-3H]-
Lot 217-044-0118-A-20110816-TNG

Chromatogram Info:

File Name	: L:\int21397	File Created	: 2/26/2014 3:47:01 PM
Origin	: Acquired, Acquisition started 11/30/2011 2:59:25 PM	Acquired Date	: 11/30/2011 3:39:24 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 2/26/2014 4:01 PM
Created	: 6/16/2007 8:19 AM	Detection	: UV 269nm
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



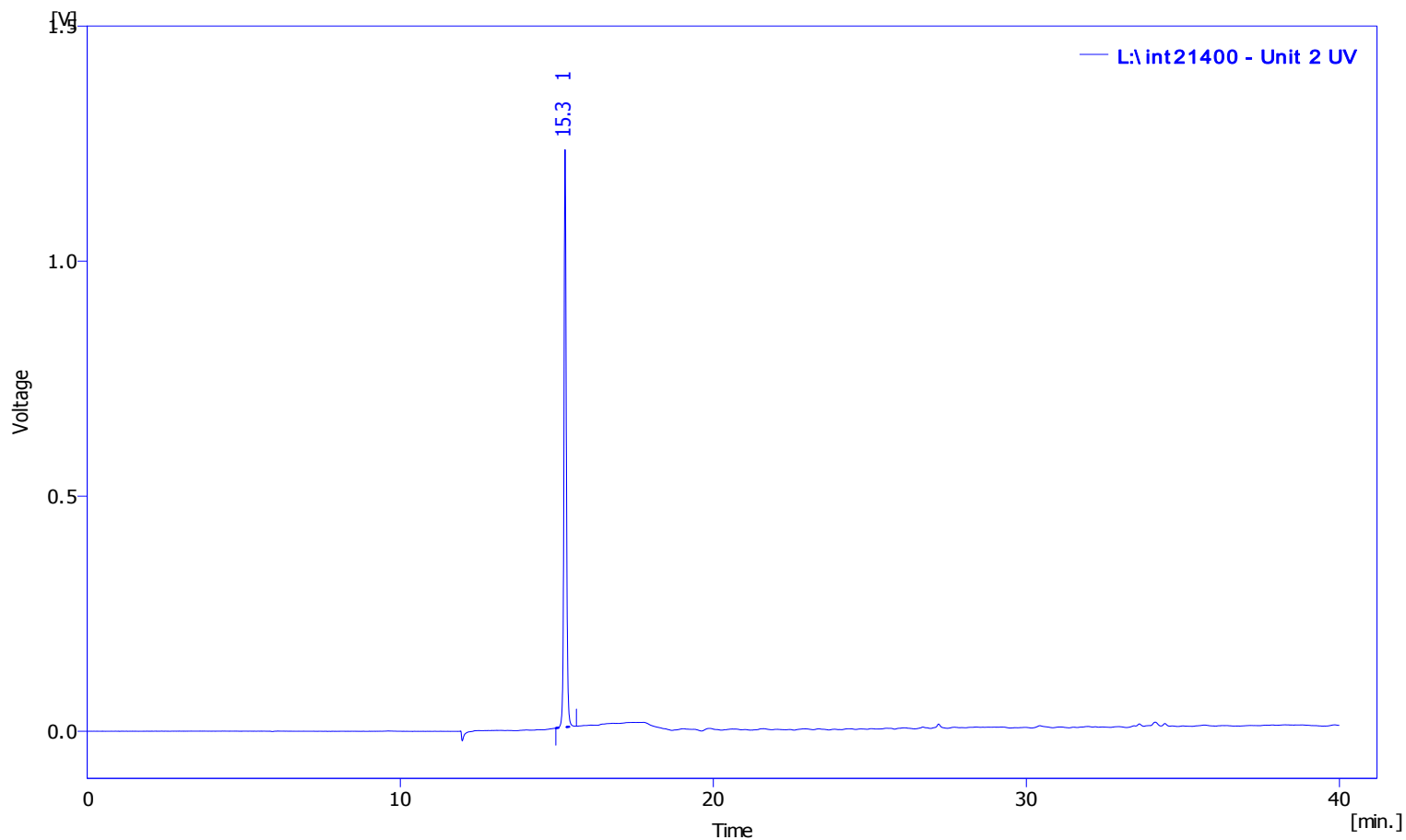
Result Table (Uncal - L:\int21397 - Unit 2 UV)

	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		15.67	430.956	82.22	100.00	100.00	195972.44	3919448.77	1.12		
		Total	430.956	82.22	100.00	100.00					

MT-635
Adenine-β-D-arabinofuranoside, [2,8-3H]-
Lot 217-044-0118-A-20110816-TNG

Chromatogram Info:

File Name	: L:\int21400	File Created	: 2/26/2014 3:47:02 PM
Origin	: Acquired, Acquisition started 12/1/2011 1:18:13 PM	Acquired Date	: 12/1/2011 1:58:13 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 2/26/2014 4:02 PM
Created	: 6/16/2007 8:19 AM	Detection	: UV 269nm
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



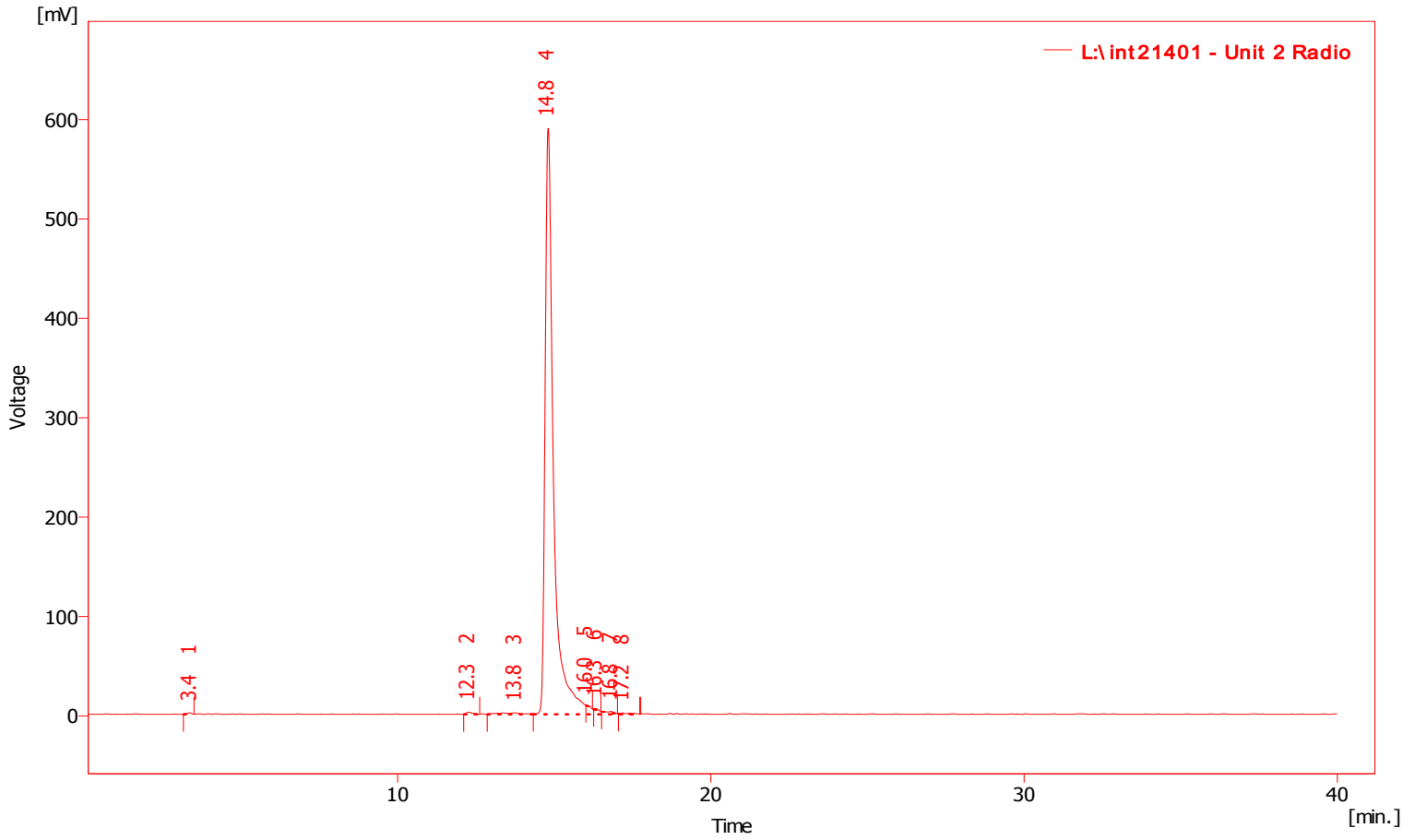
Result Table (Uncal - L:\int21400 - Unit 2 UV)

	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		15.26	6525.373	1228.56	100.00	100.00	185853.62	3717072.48	1.12		
		Total	6525.373	1228.56	100.00	100.00					

MT-635
Adenine- β -D-arabinofuranoside, [2,8-3H]-
Lot 217-044-0118-A-20110816-TNG

Chromatogram Info:

File Name	: L:\int21401	File Created	: 2/26/2014 3:47:02 PM
Origin	: Acquired, Acquisition started 12/1/2011 2:25:04 PM	Acquired Date	: 12/1/2011 3:05:03 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 2/26/2014 4:03 PM
Created	: 6/16/2007 8:19 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:		
Note	:		



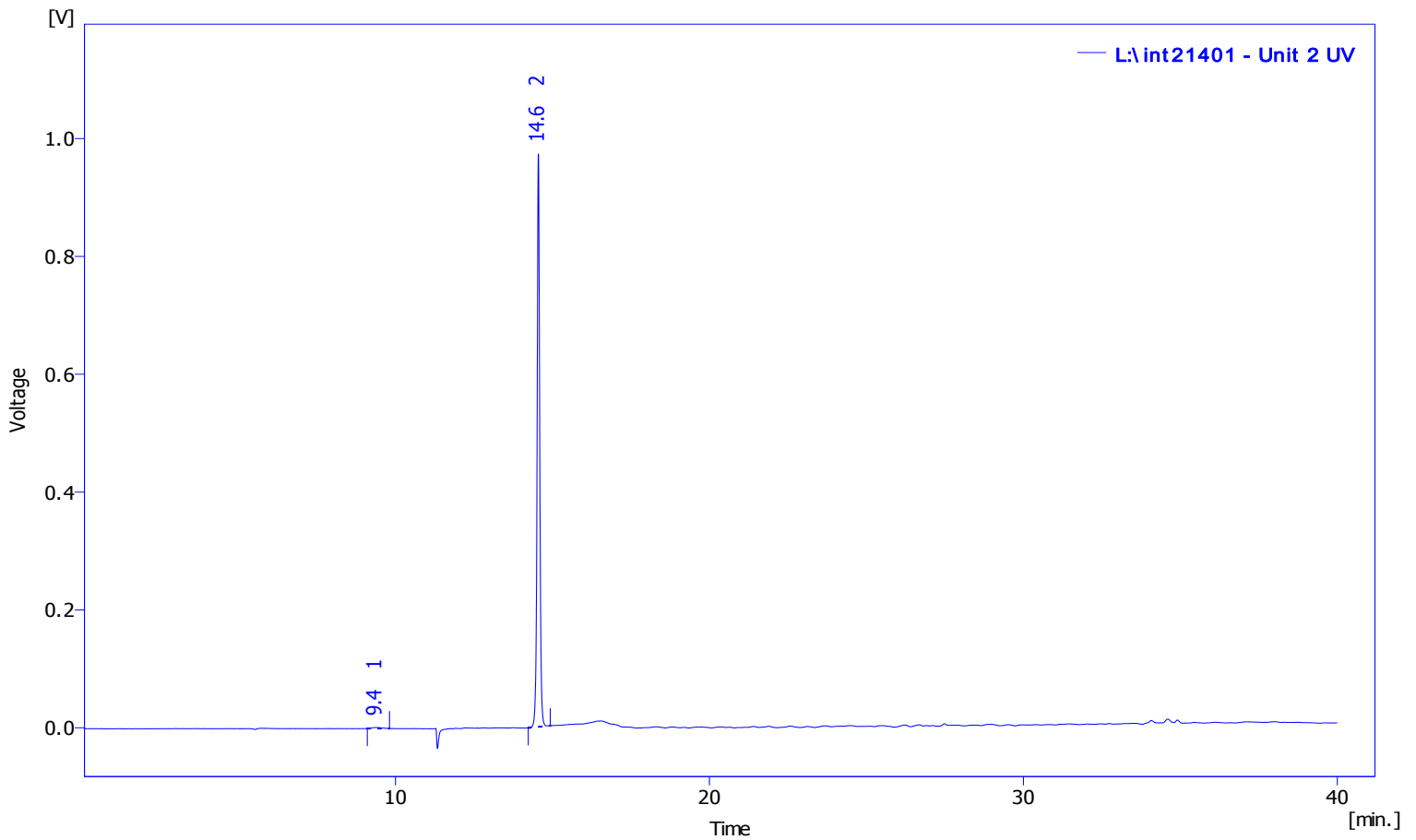
Result Table (Uncal - L:\int21401 - Unit 2 Radio)

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	3.38	15.493	1.46	0.14	0.24	1582.28	31645.59	0.73		
2	12.27	30.030	2.27	0.26	0.38	23104.24	462084.80	1.50		26.9
3	13.76	74.522	1.49	0.65	0.25	1638.95	32779.07	0.82		1.8
4	14.80	11240.845	589.43	98.39	98.30	19415.71	388314.11	3.65		1.2
5	16.03	11.312	0.63	0.10	0.10	569425.35	11388507.09	5.25		4.8
6	16.33	12.533	1.58	0.11	0.26	122094.69	2441893.73	1.57		2.2
7	16.83	19.938	1.67	0.17	0.28	61296.83	1225936.65	0.79		2.2
8	17.20	20.084	1.07	0.18	0.18	96979.50	1939590.06	3.05		1.5
Total		11424.756	599.59	100.00	100.00					

MT-635
Adenine- β -D-arabinofuranoside, [2,8-3H]-
Lot 217-044-0118-A-20110816-TNG

Chromatogram Info:

File Name	: L:\int21401	File Created	: 2/26/2014 3:47:02 PM
Origin	: Acquired, Acquisition started 12/1/2011 2:25:04 PM	Acquired Date	: 12/1/2011 3:05:03 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 2/26/2014 4:02 PM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 269nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



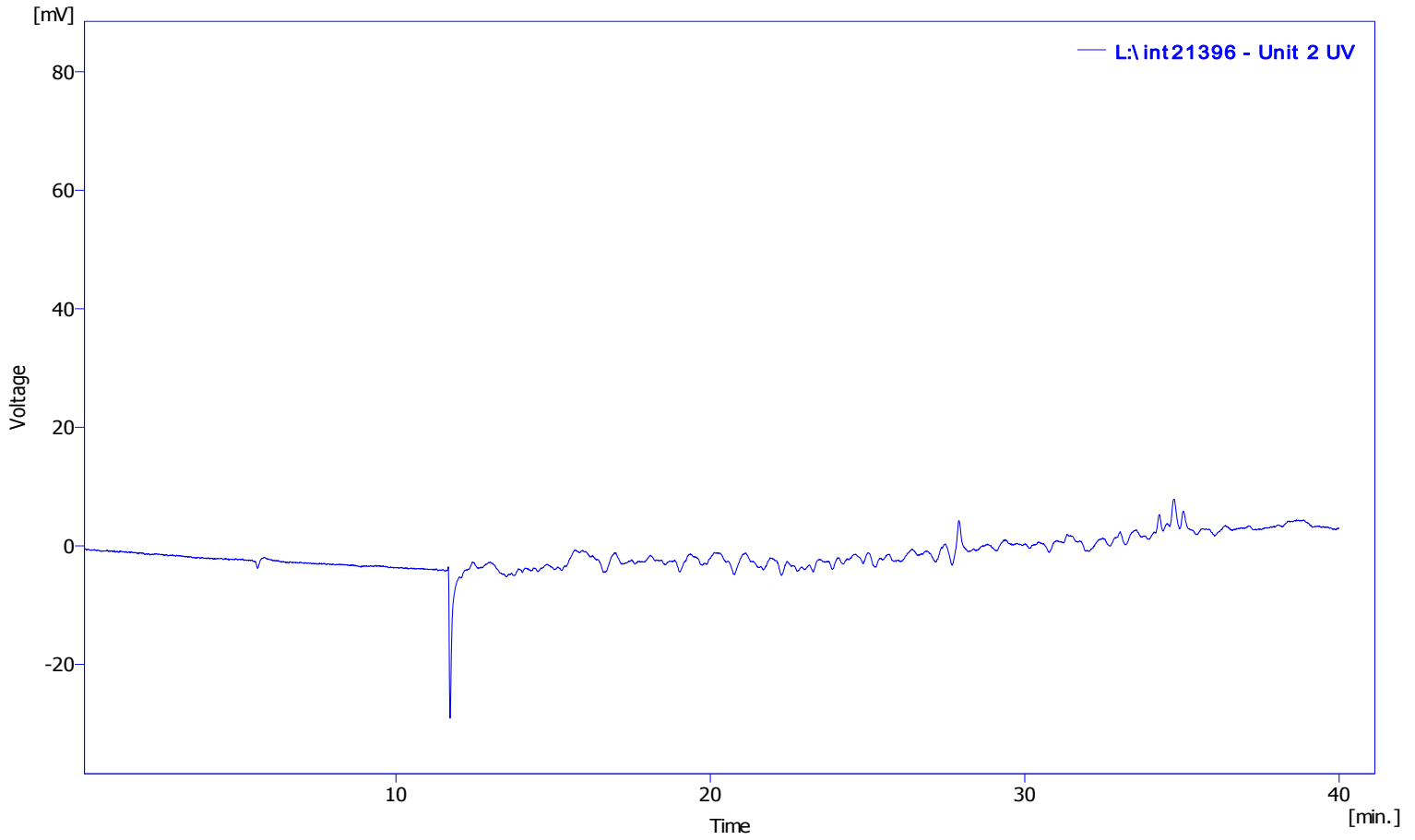
Result Table (Uncal - L:\int21401 - Unit 2 UV)

	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		9.37	38.805	1.88	0.68	0.19	3970.57	79411.40	1.27		
2		14.55	5636.349	972.29	99.32	99.81	144794.06	2895881.11	1.05		13.9
		Total	5675.154	974.18	100.00	100.00					

MT-635
Adenine- β -D-arabinofuranoside, [2,8-3H]-
Lot 217-044-0118-A-20110816-TNG

Chromatogram Info:

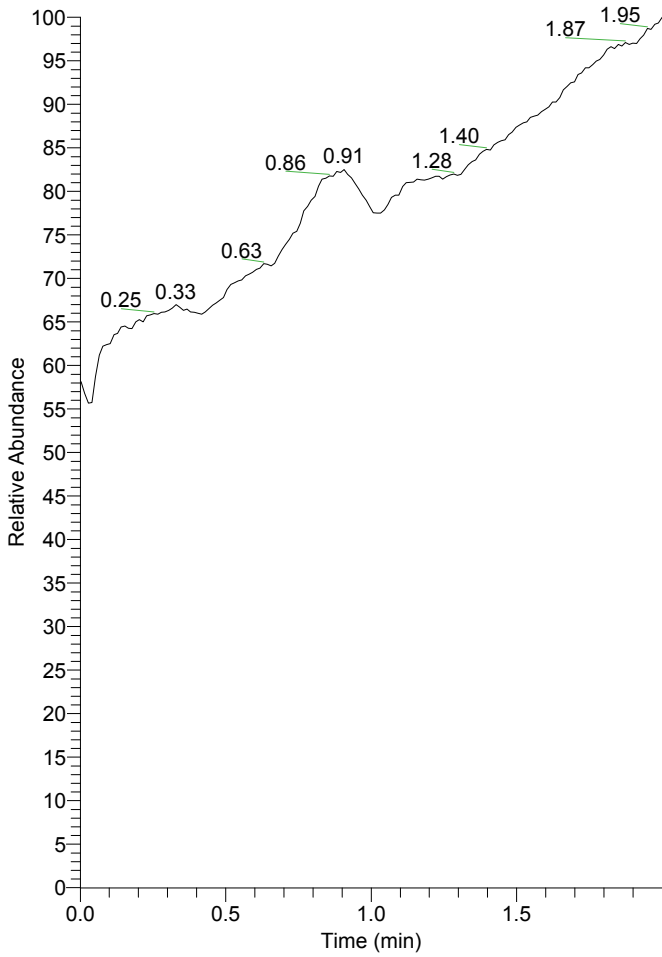
File Name	: L:\int21396	File Created	: 2/26/2014 3:47:01 PM
Origin	: Acquired, Acquisition started 11/30/2011 1:26:57 PM	Acquired Date	: 11/30/2011 2:06:56 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 2/26/2014 4:03 PM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 269nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int21396 - Unit 2 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										

RT: 0.00 - 2.00



NL: 5.95E7
TIC F: MS
MT635-20110816-TNG

MT635-20110816-TNG#1-160 RT: 0.00-2.00

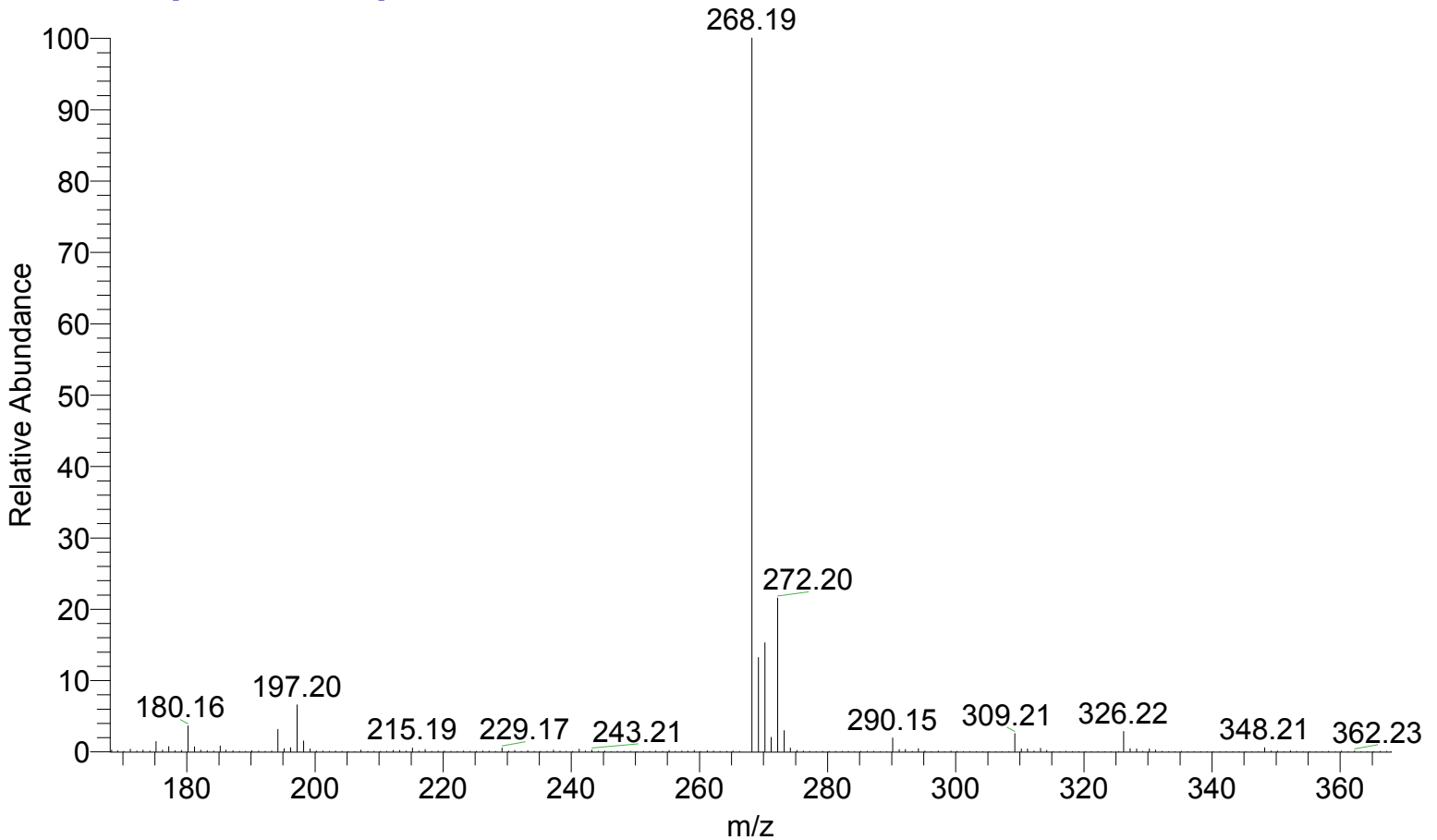
T: + c Q3MS [168.00-368.00]

m/z = 263.28-284.47

m/z	Intensity	Relative
266.23	14306.0	0.06
268.19	23380732.0	100.00
269.19	3085552.2	13.20
270.19	3568717.5	15.26
271.20	469396.0	2.01
272.20	5036961.5	21.54
273.20	696233.2	2.98
274.20	123368.2	0.53
275.20	39371.3	0.17
276.20	20295.7	0.09
277.20	14984.8	0.06
278.22	8581.8	0.04
279.22	13302.7	0.06
280.23	11856.6	0.05
281.23	14134.6	0.06
282.25	13913.6	0.06
283.22	15383.5	0.07
284.20	9074.0	0.04

MT635-20110816-TNG #1-160 RT: 0.00-2.00 AV: 160 NL: 2.34E7

T: + c Q3MS [168.00-368.00]



MT635 3H NMR in MeOD
Batch 20110816-TNG

0.469
0.399
0.381
0.226
0.204



BRUKER

NAME MT635-20110816-TNG
EXPNO 1
PROCNO 1
Date_ 20111202
Time_ 15.29
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

