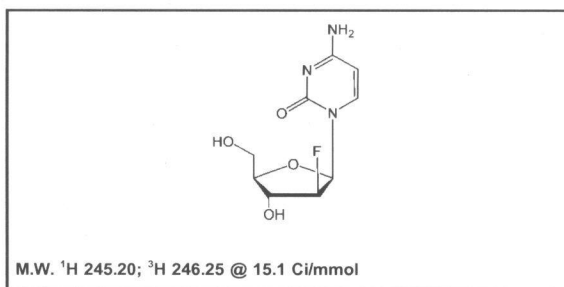




Product Data Sheet

MT-1858

2'-Deoxy-2'-fluoroarabinofuranosylcytosine, [³H]-



Lot #: 211-165-0151-A-20110512-NT

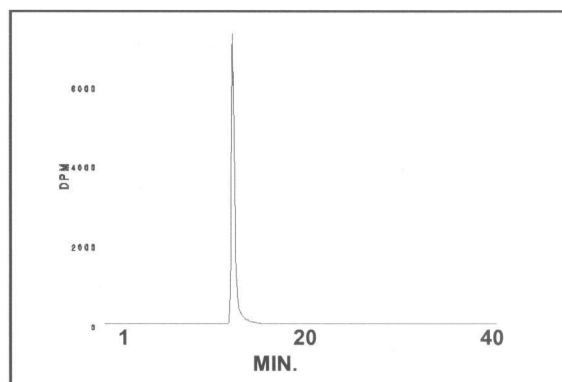
Specific Activity: 15.1 Ci/mmol

Concentration: 1.0 mCi/ml; 16.31 µg/ml

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

Date of Analysis: July 11, 2011

Radiochemical Purity: 99.6%



HPLC ANALYSIS LOT 211-165-0151-A-20110512-NT
File Name: int21210 Date and Time: 7/11/2011 11:16:33 A
Unit 2 Radio

Peak #	Area %	Time	Area
1	99.64	13.07000	18020.49171
2	0.05	14.21670	9.79518
3	0.10	14.57000	17.91613
4	0.21	14.83330	38.10847
Totals	100.00		18086.31149

Storage Recommendation: Store 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-1858

2'-Deoxy-2'-fluoroarabinofuranosylcytosine, [³H]-

Lot 211-165-0151-A-20110512-NT

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

Concentrations and volumes:

Standard solution concentration was 2.0 mg/ml.

³H Material concentration was 0.2 mCi/ml.

Volume of standard alone injection was 1.0 µl.

Volume of ³H Material alone injection was 1.0 µl.

Co-injection solution consisted of 1.0 µl ³H Material + 1.0 µl standard.

Volume of co-injection was 2.0 µl.

Volume of blank injection was 1.0 µl.

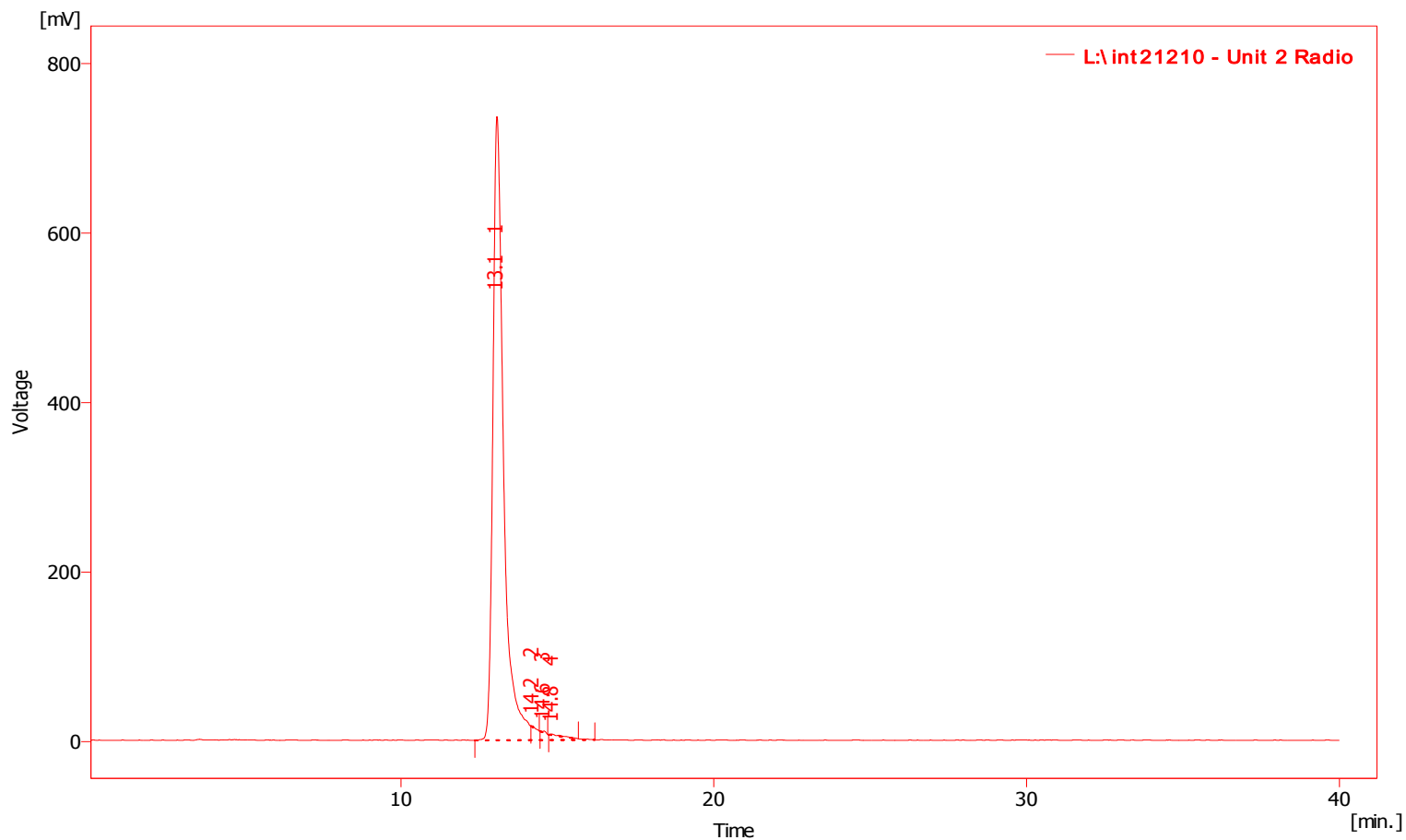
B) Mass spectrometry – Positive mode

C) NMR

MT-1858
2'-Deoxy-2'-fluoroarabinofuranosylcytosine, [3H]-
Lot 211-165-0151-A-20110512-NT

Chromatogram Info:

File Name	: L:\int21210	File Created	: 4/4/2014 1:13:26 PM
Origin	: Acquired, Acquisition started 7/11/2011 10:36:34 AM	Acquired Date	: 7/11/2011 11:16:33 AM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 4/4/2014 1:21 PM
Created	: 6/16/2007 8:19 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



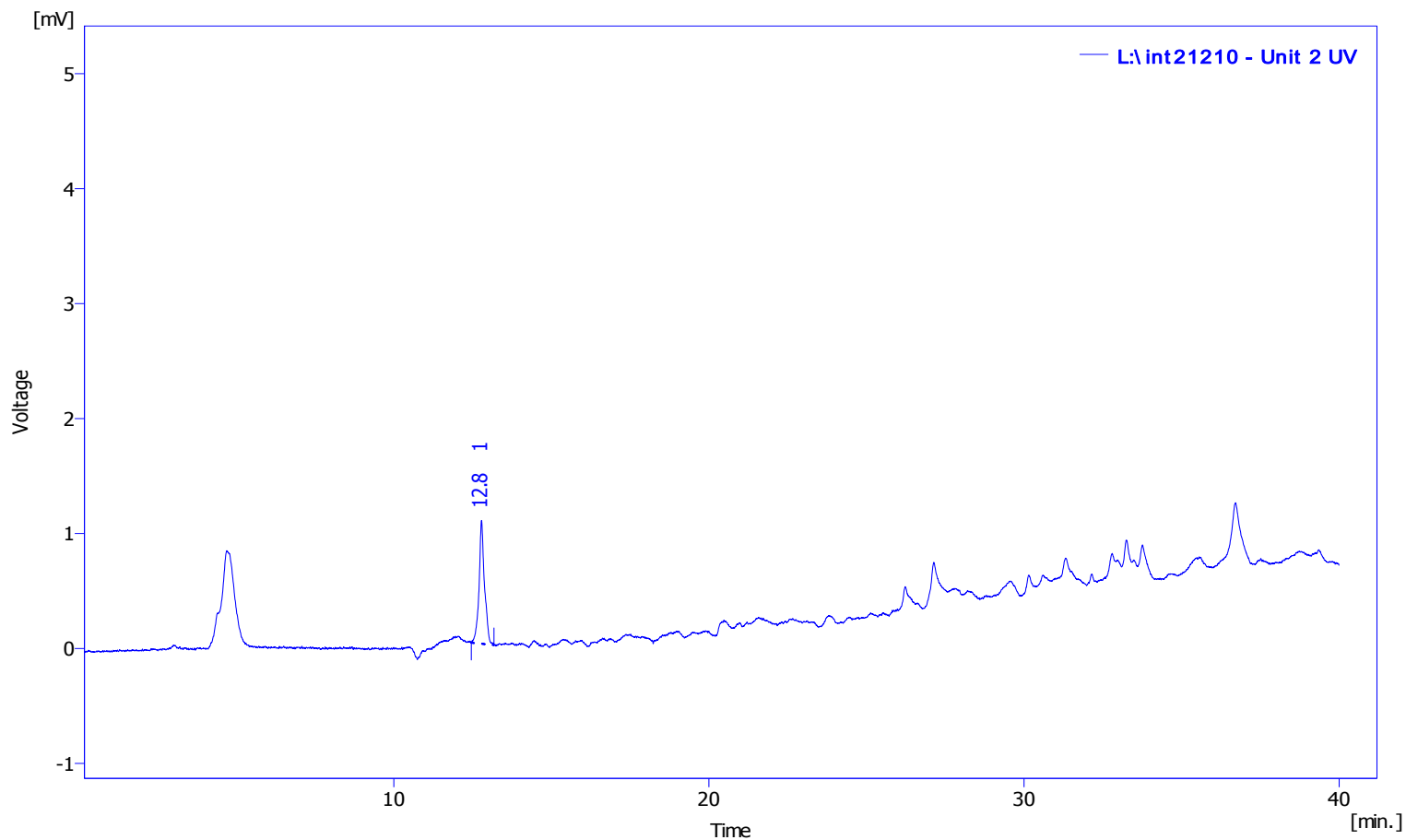
Result Table (Uncal - L:\int21210 - Unit 2 Radio)

	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		13.07	18020.492	735.84	99.64	99.26	8517.33	170346.59	2.71		
2		14.22	9.795	1.66	0.05	0.22	138235.73	2764714.58	1.25		3.2
3		14.57	17.916	2.31	0.10	0.31	37680.76	753615.17	0.99		1.6
4		14.83	38.108	1.49	0.21	0.20	54175.73	1083514.57	3.45		1.0
		Total	18086.311	741.29	100.00	100.00					

MT-1858
2'-Deoxy-2'-fluoroarabinofuranosylcytosine, [3H]-
Lot 211-165-0151-A-20110512-NT

Chromatogram Info:

File Name	: L:\int21210	File Created	: 4/4/2014 1:13:26 PM
Origin	: Acquired, Acquisition started 7/11/2011 10:36:34 AM	Acquired Date	: 7/11/2011 11:16:33 AM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 4/4/2014 1:21 PM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 270nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



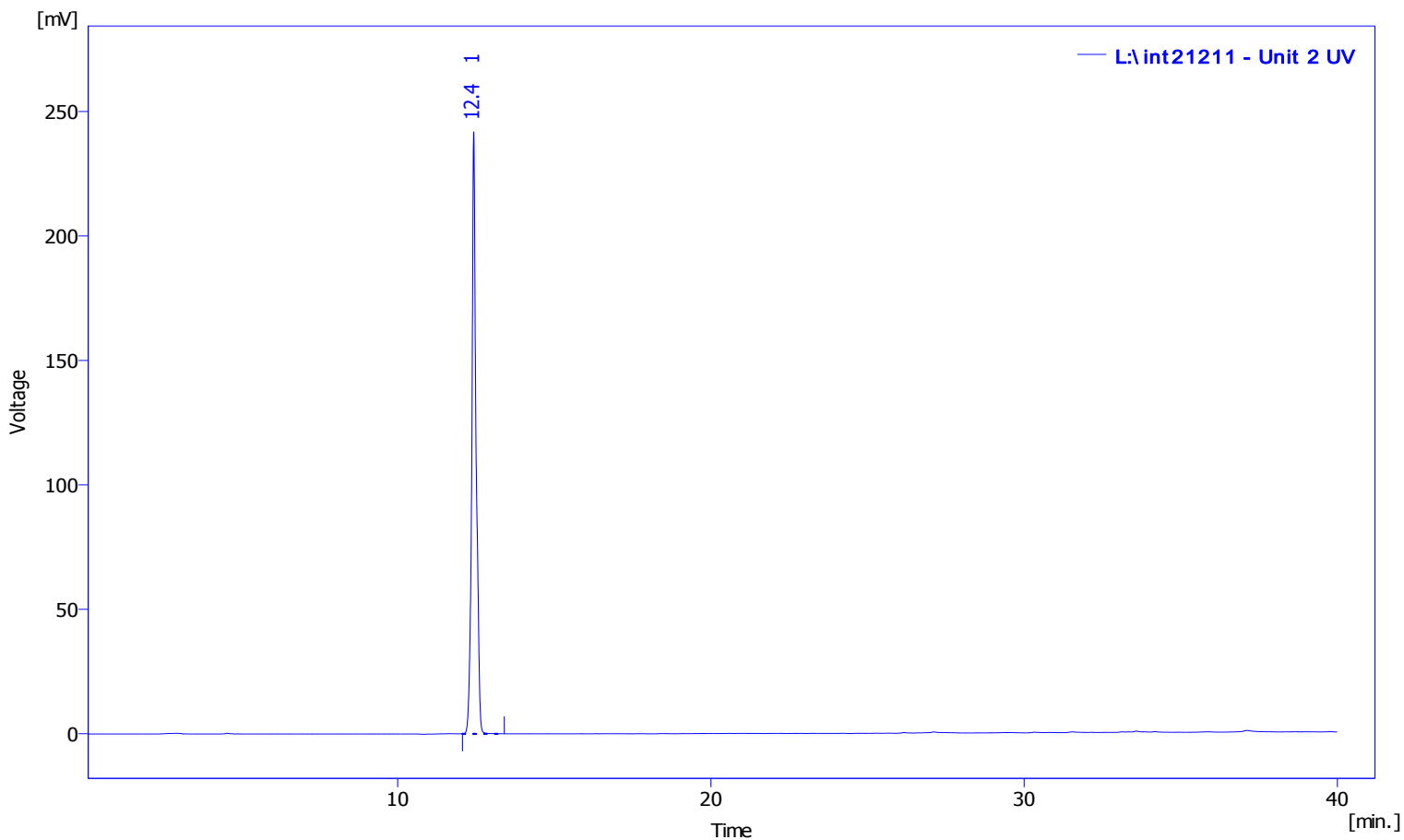
Result Table (Uncal - L:\int21210 - Unit 2 UV)

	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		12.78	13.004	1.07	100.00	100.00	33935.04	678700.76	1.04		
		Total	13.004	1.07	100.00	100.00					

MT-1858
2'-Deoxy-2'-fluoroarabinofuranosylcytosine, [3H]-
Lot 211-165-0151-A-20110512-NT

Chromatogram Info:

File Name	: L:\int21211	File Created	: 4/4/2014 1:13:27 PM
Origin	: Acquired, Acquisition started 7/11/2011 11:57:53 AM	Acquired Date	: 7/11/2011 12:37:52 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 4/4/2014 1:23 PM
Created	: 6/16/2007 8:19 AM	Detection	: UV 270nm
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



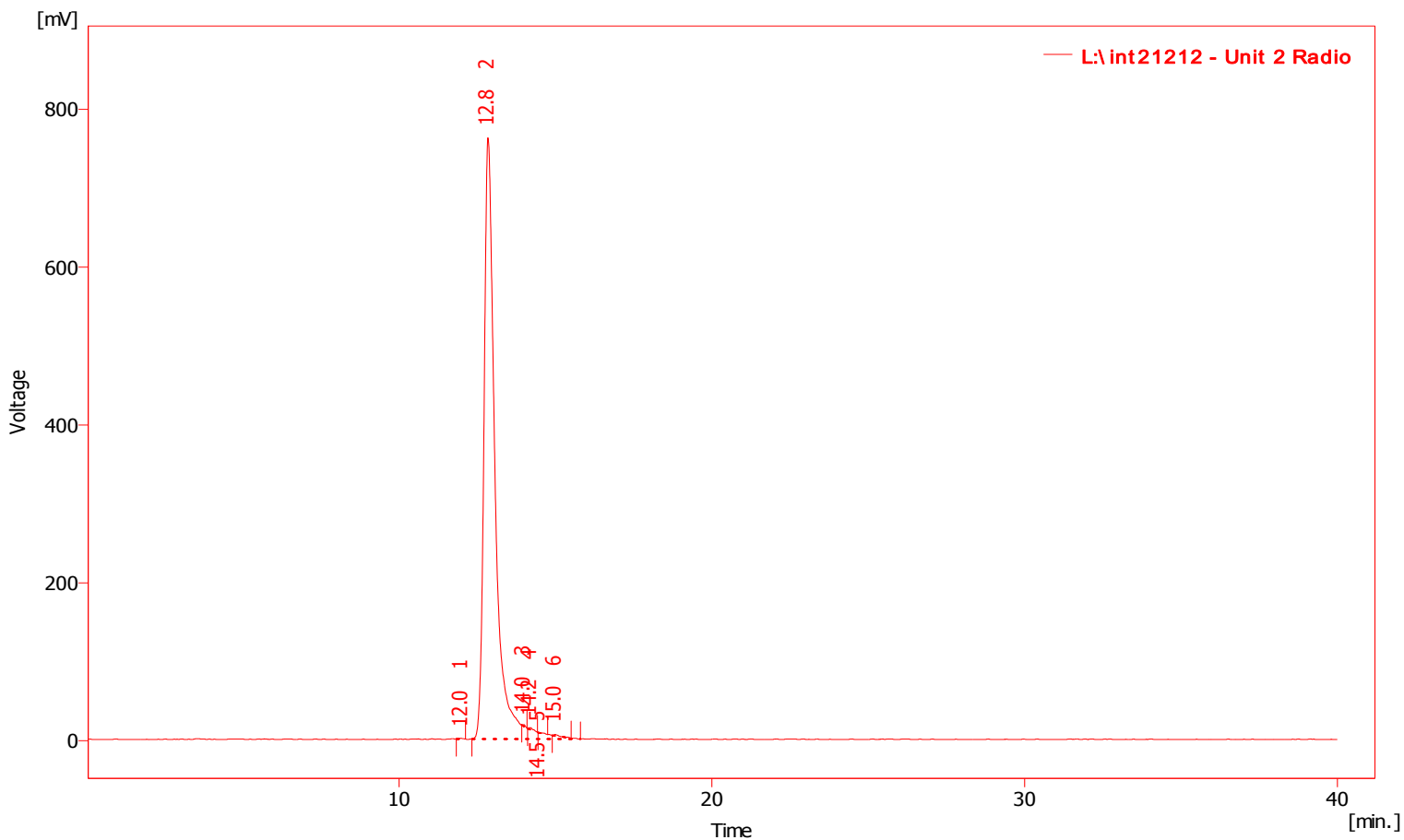
Result Table (Uncal - L:\int21211 - Unit 2 UV)

	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		12.43	2320.615	241.85	100.00	100.00	50621.19	1012423.82	1.10		
		Total	2320.615	241.85	100.00	100.00					

MT-1858
2'-Deoxy-2'-fluoroarabinofuranosylcytosine, [3H]-
Lot 211-165-0151-A-20110512-NT

Chromatogram Info:

File Name	: L:\int21212	File Created	: 4/4/2014 1:13:26 PM
Origin	: Acquired, Acquisition started 7/11/2011 1:18:58 PM	Acquired Date	: 7/11/2011 1:58:57 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 4/4/2014 1:24 PM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



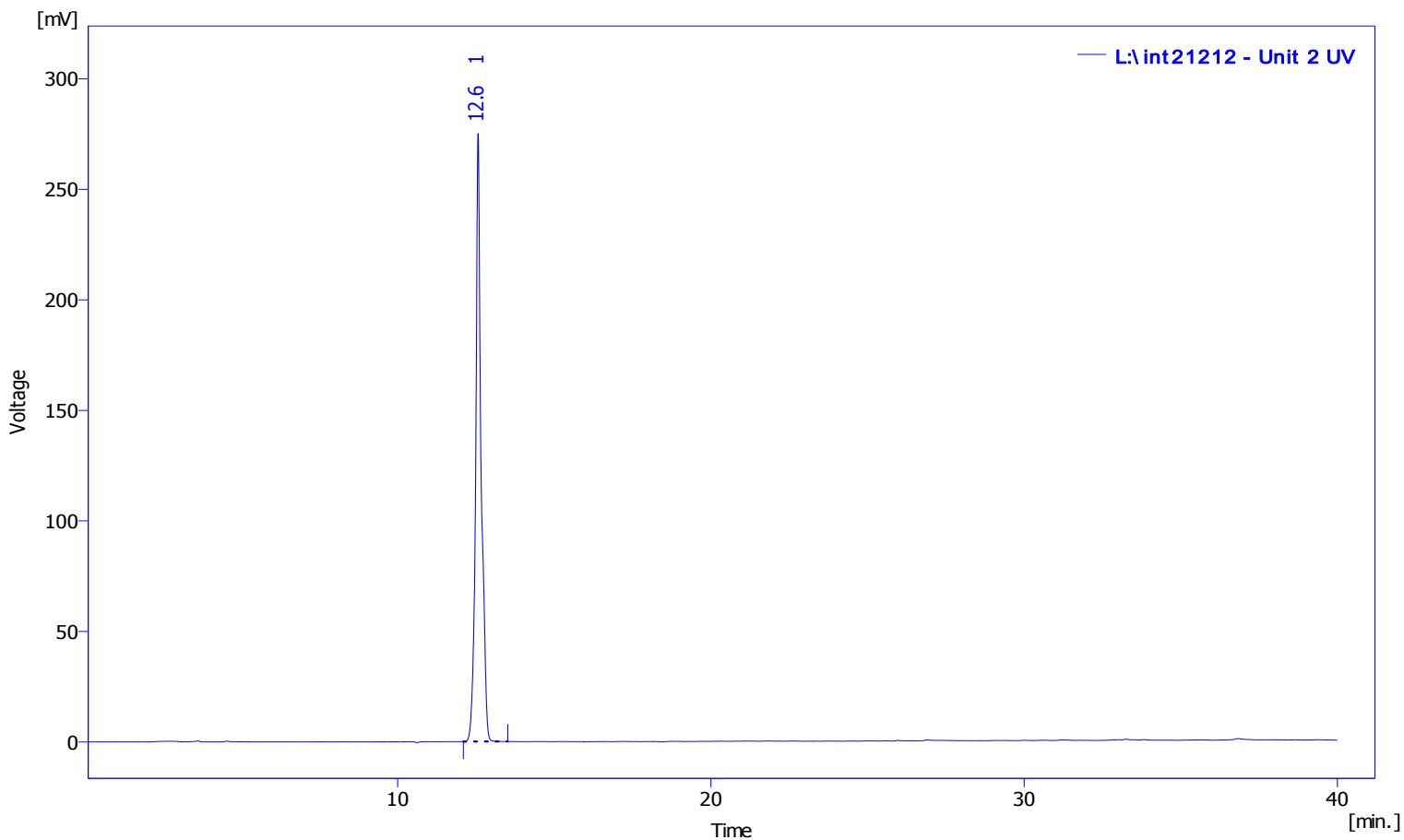
Result Table (Uncal - L:\int21212 - Unit 2 Radio)

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	12.00	9.551	0.97	0.05	0.13	42687.99	853759.88	0.83		
2	12.84	19054.285	761.90	99.59	98.94	7896.90	157937.93	3.40		2.1
3	14.00	11.769	2.49	0.06	0.32	108532.30	2170645.99	1.18		3.1
4	14.20	27.243	2.67	0.14	0.35	56994.16	1139883.27	1.68		1.0
5	14.47	7.856	0.22	0.04	0.03	862390.28	17247805.62	6.36		1.8
6	14.98	21.691	1.85	0.11	0.24	69959.90	1399197.98	1.76		3.6
Total		19132.395	770.10	100.00	100.00					

MT-1858
2'-Deoxy-2'-fluoroarabinofuranosylcytosine, [3H]-
Lot 211-165-0151-A-20110512-NT

Chromatogram Info:

File Name	: L:\int21212	File Created	: 4/4/2014 1:13:26 PM
Origin	: Acquired, Acquisition started 7/11/2011 1:18:58 PM	Acquired Date	: 7/11/2011 1:58:57 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 4/4/2014 1:23 PM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 270nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



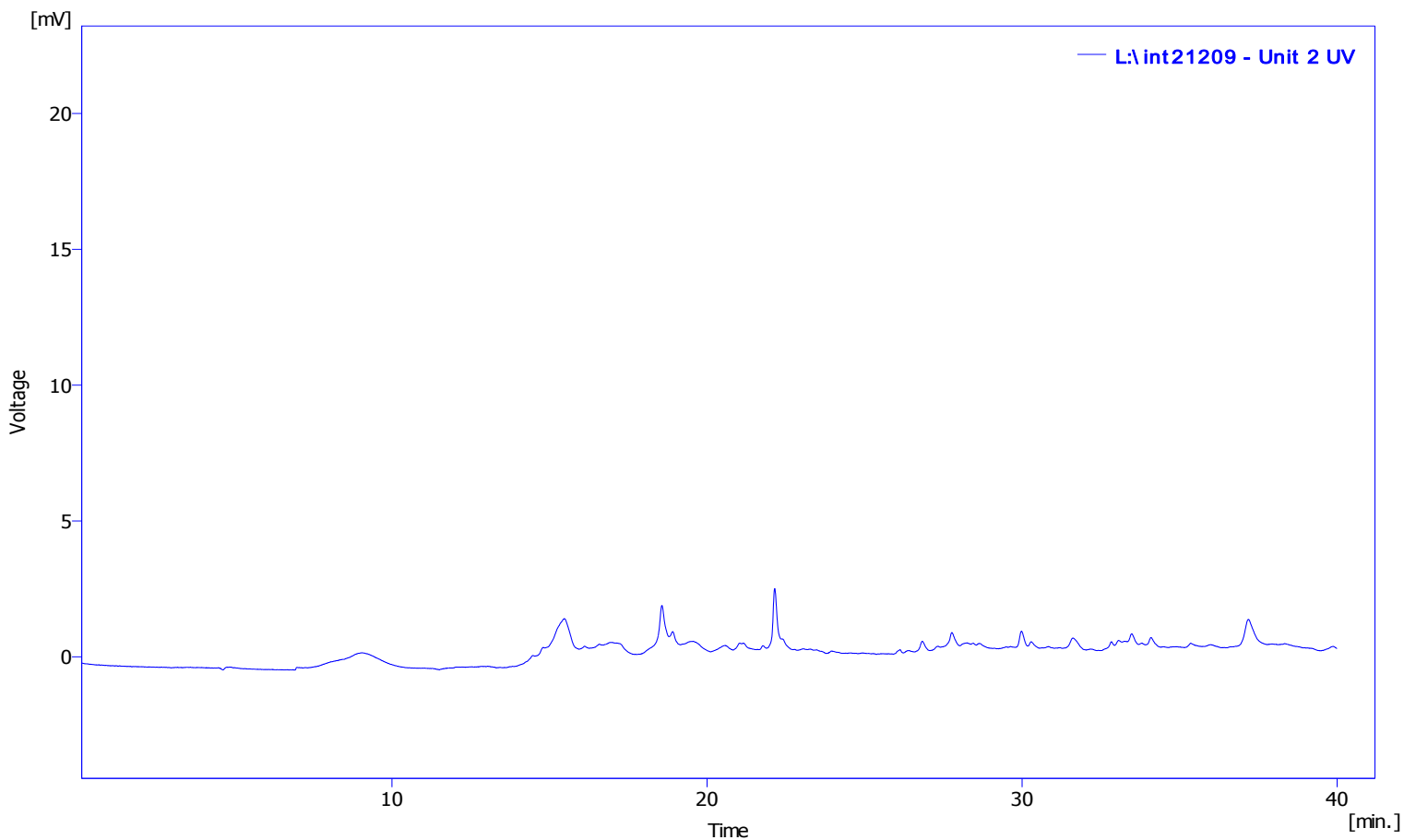
Result Table (Uncal - L:\int21212 - Unit 2 UV)

	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		12.57	3355.205	275.15	100.00	100.00	37211.47	744229.36	1.14		
		Total	3355.205	275.15	100.00	100.00					

MT-1858
2'-Deoxy-2'-fluoroarabinofuranosylcytosine, [3H]-
Lot 211-165-0151-A-20110512-NT

Chromatogram Info:

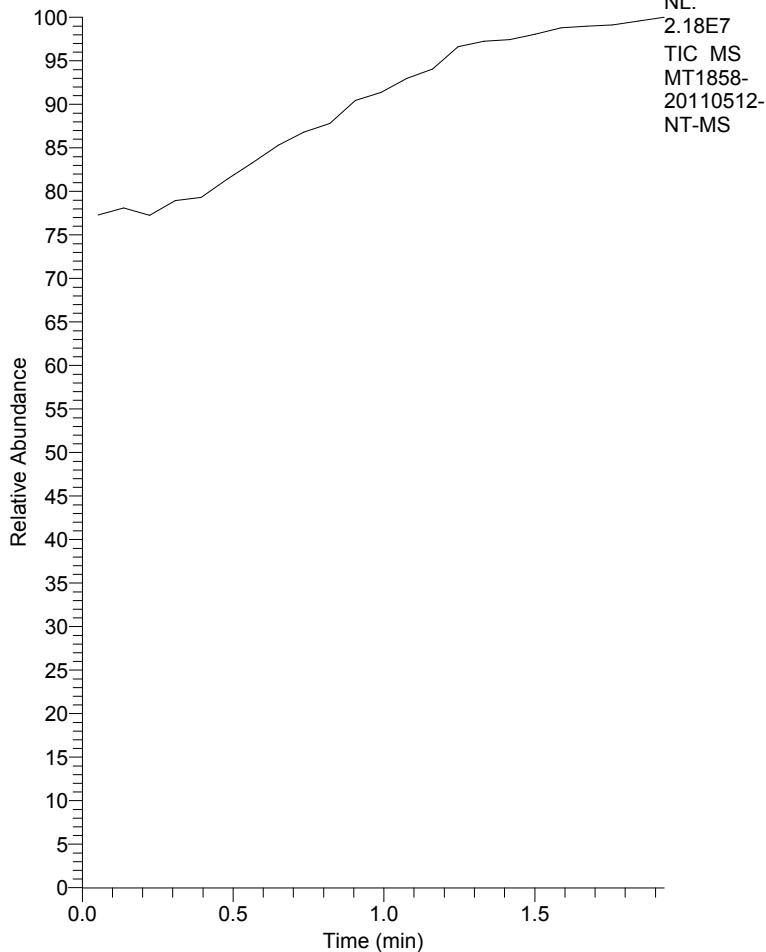
File Name	: L:\int21209	File Created	: 4/4/2014 1:13:26 PM
Origin	: Acquired, Acquisition started 7/11/2011 9:22:48 AM	Acquired Date	: 7/11/2011 10:02:47 AM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 4/4/2014 1:25 PM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 270nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int21209 - 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 - 1.93



MT1858-20110512-NT-MS#1-23 RT: 0.05-1.93

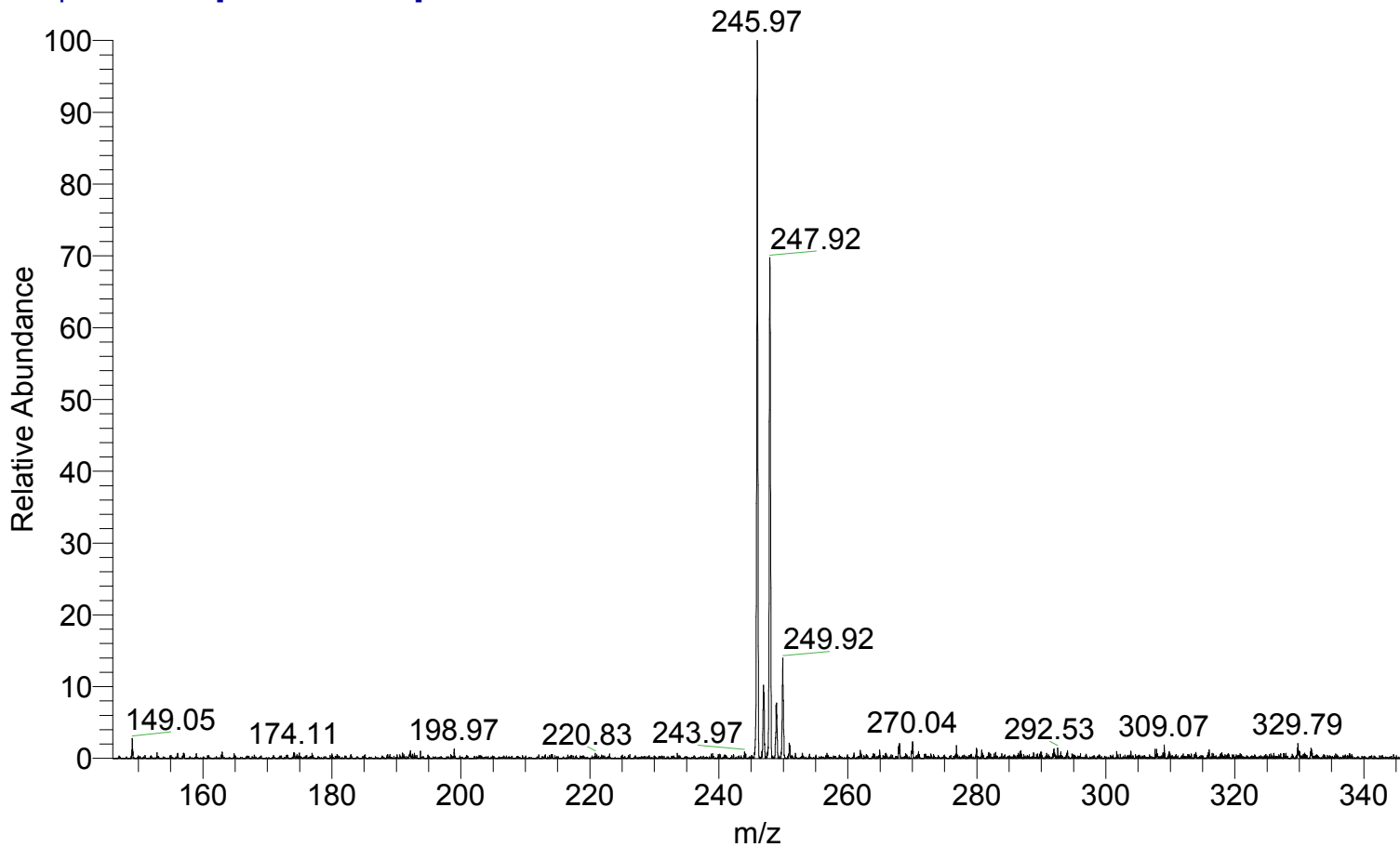
T: + p NSI Z ms [146.00-346.00]

m/z= 233.67-275.30

m/z	Intensity	Relative
244.04	37268.4	0.57
245.94	6576309.5	100.00
246.93	724398.2	11.02
247.91	5225690.5	79.46
248.92	553031.5	8.41
249.91	906092.2	13.78
250.97	139117.0	2.12
252.93	28904.6	0.44
256.82	29310.3	0.45
261.93	59475.9	0.90
262.86	28760.5	0.44
264.00	40117.3	0.61
264.89	37506.4	0.57
265.85	45528.0	0.69
267.97	142207.3	2.16
268.96	38936.5	0.59
269.99	136582.8	2.08
270.88	41658.0	0.63
272.03	42370.2	0.64
272.91	33818.0	0.51

MT1858-20110512-NT-MS #1-23 RT: 0.05-1.93 AV: 23 NL: 1.61E5

T: + p NSI Z ms [146.00-346.00]



MT1858 3H NMR in MeOD
Batch 20110512-NT



BRUKER

5.965
5.941
5.914

7.878
7.852

NAME MT1858-20110512-NT
EXPNO 1
PROCNO 1
Date_ 20110711
Time_ 19.50
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
SF01 320.1321857 MHz
SI 32768
SF 320.1305850 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

