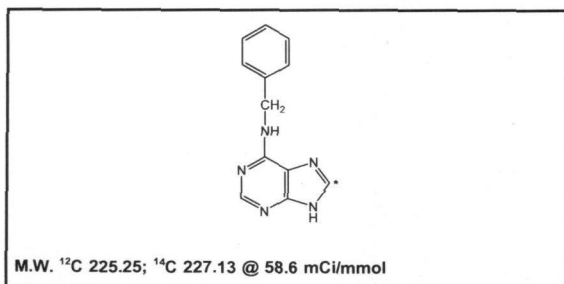




Product Data Sheet

MC-190

N⁶-Benzyladenine, [8-¹⁴C]-

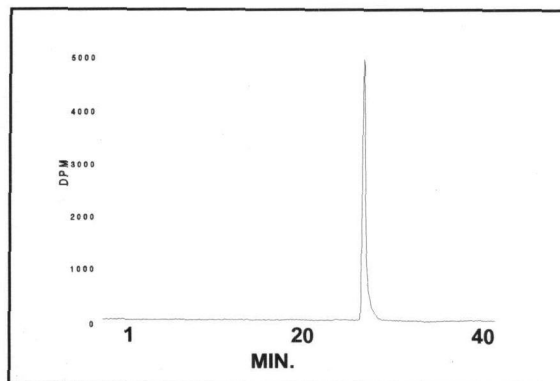


Lot #: 195-052-0586-A-20080620-JZ

Packaged as: Solid

Date of Analysis: August 9, 2012

Radiochemical Purity: 99.1%



HPLC ANALYSIS LOT 195-052-0586-A-20080620-JZ
File Name: intX522 Date and Time: 8/9/2012 1:49:04 PM
Unit X Radio

Peak #	Area %	Time	Area
1	0.20	14.75000	24.72532
2	0.42	23.81330	52.22261
3	99.12	26.59330	12471.22180
4	0.10	28.22670	13.09538
5	0.16	28.68670	20.10512
Totals	100.00		12581.37023

Stability and Storage Recommendation: The rate of decomposition is approximately 0.1 %/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.

MC-190

N⁶-Benzyladenine, [8-¹⁴C]-

Lot 195-052-0586-A-20080620-JZ

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

Concentrations and volumes:

Standard solution concentration was 0.5 mg/ml.

N⁶-Benzyladenine, [8-¹⁴C]- concentration was 36.0 µCi/ml.

Volume of standard alone injection was 1.0 µl.

Volume of **N⁶-Benzyladenine, [8-¹⁴C]-** alone injection was 1.5 µl.

Co-injection solution consisted of 1.5 µl **N⁶-Benzyladenine, [8-¹⁴C]-** + 1.0 µl standard.

Volume of co-injection was 2.5 µl.

Volume of blank injection was 1.5 µl.

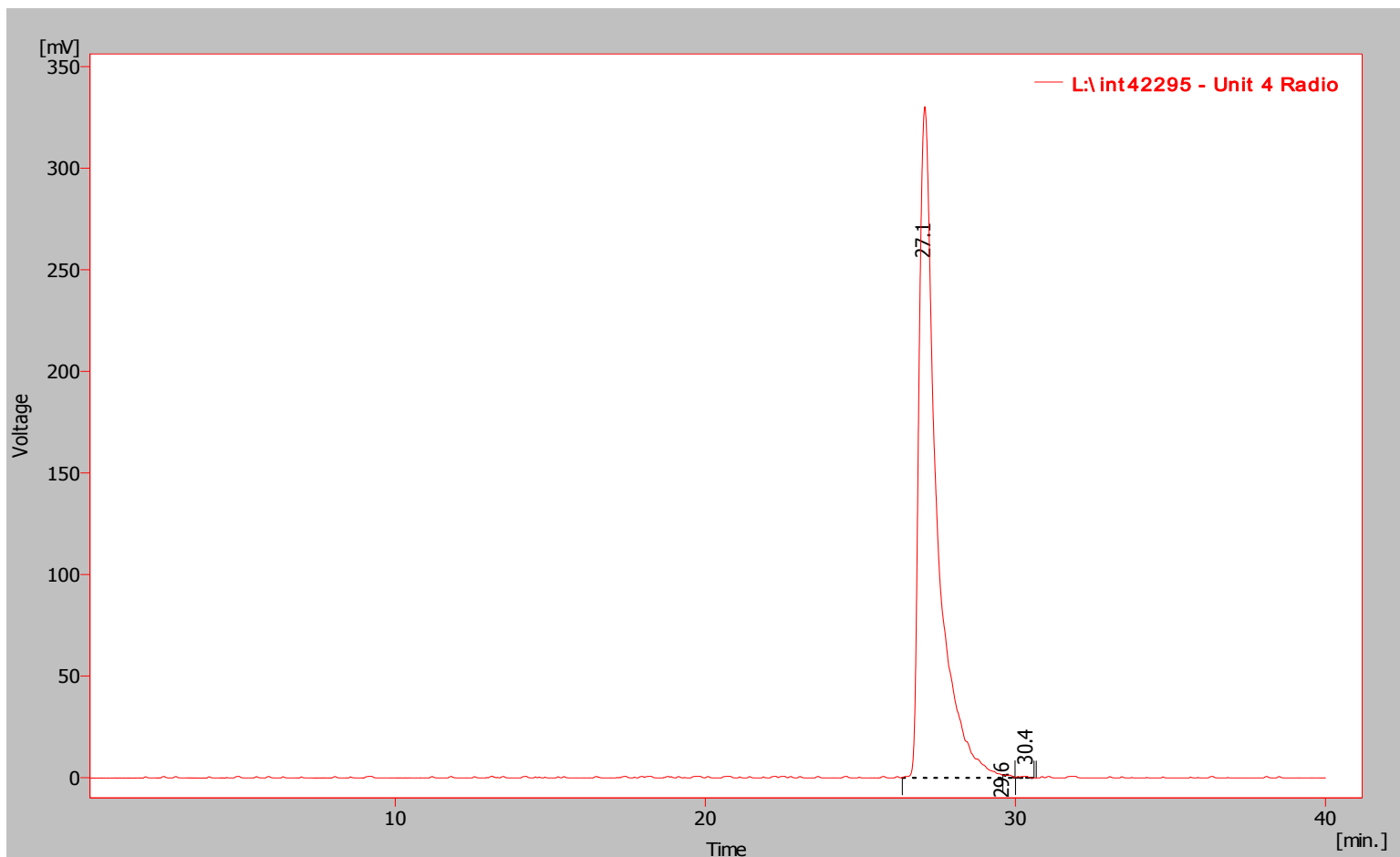
B) Mass spectrometry - Positive mode

C) NMR

MC-190
N6-Benzyladenine, [8-14C]
Lot 195-052-0586-A-20080620-JZ

Chromatogram Info:

File Name	: L:\int42295	File Created	: 10/18/2013 3:59:39 PM
Origin	: Acquired, Acquisition started 3/10/2010 12:03:07 PM	Acquired Date	: 3/10/2010 12:43:05 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 10/18/2013 4:04 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



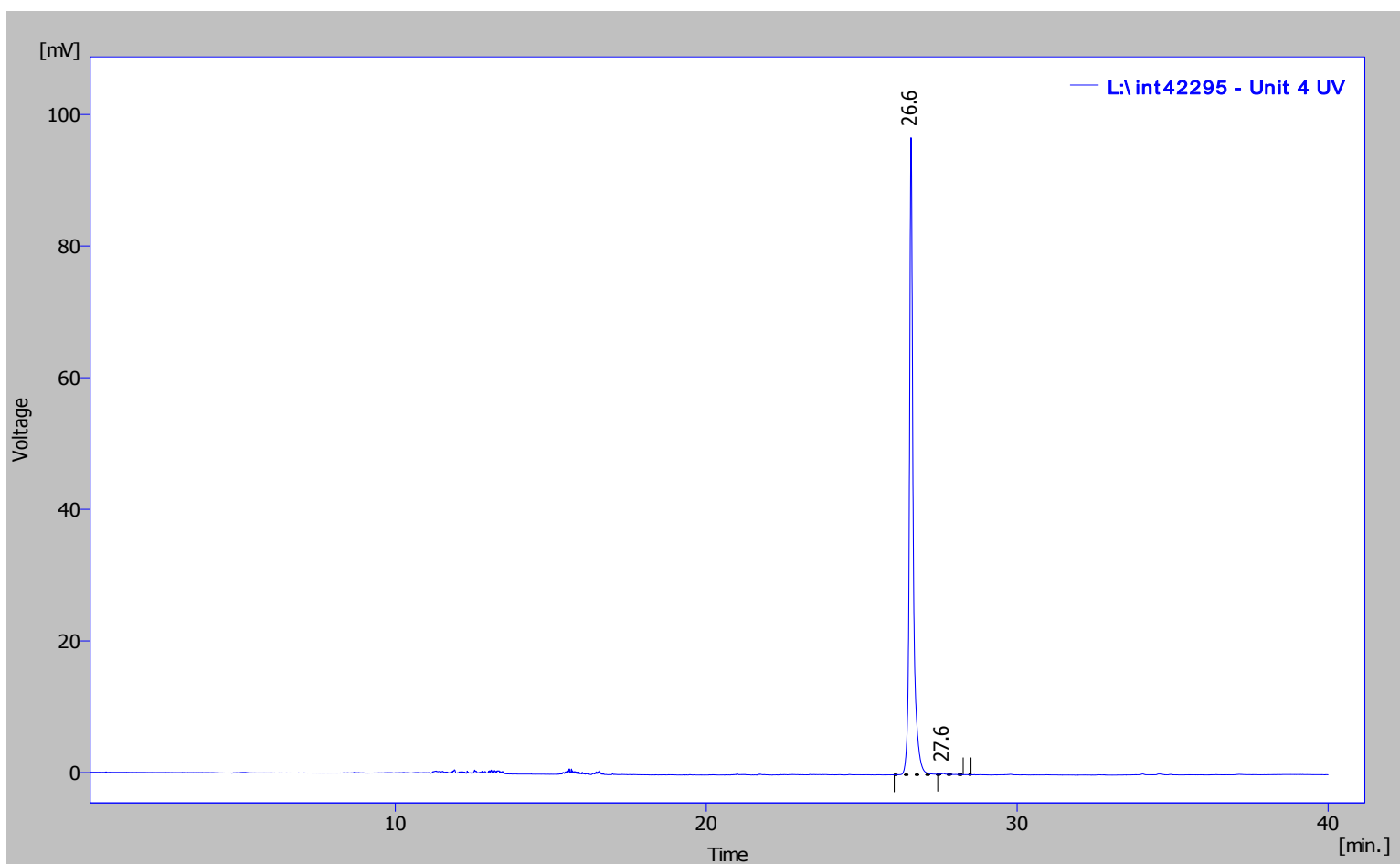
Result Table (Uncal - L:\int42295 - Unit 4 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		27.080	99.828	13158.009	330.424	99.774	15417.294
2		29.603	0.059	7.733	0.012	0.004	48550196.882
3		30.370	0.114	14.969	0.735	0.222	68393.394
		Total	100.000	13180.711	331.171	100.000	

MC-190
N6-Benzyladenine, [8-14C]
Lot 195-052-0586-A-20080620-JZ

Chromatogram Info:

File Name	: L:\int42295	File Created	: 10/18/2013 3:59:39 PM
Origin	: Acquired, Acquisition started 3/10/2010 12:03:07 PM	Acquired Date	: 3/10/2010 12:43:05 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 10/18/2013 4:05 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



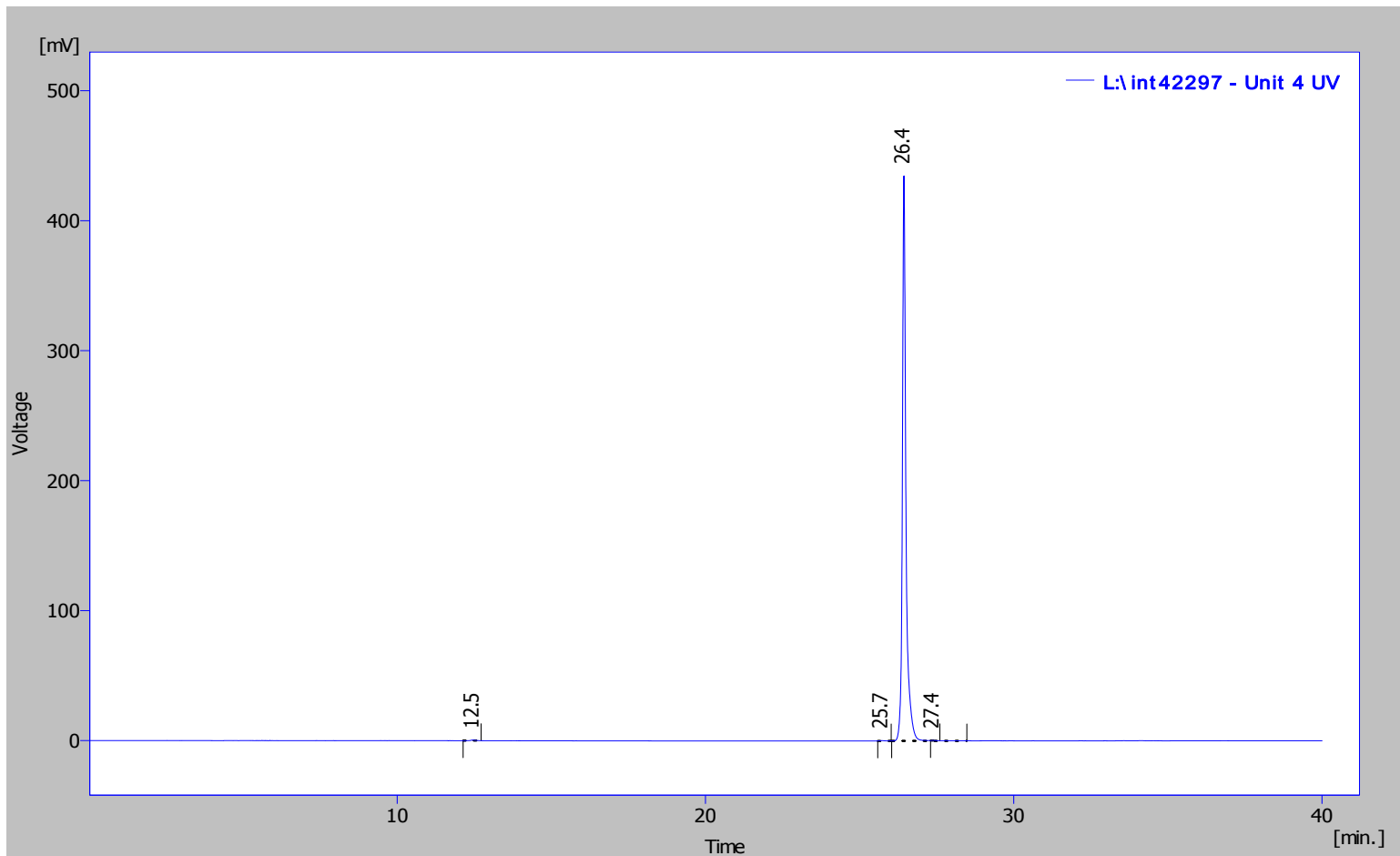
Result Table (Uncal - L:\int42295 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		26.590	99.823	814.682	96.822	99.856	323713.692
2		27.623	0.177	1.445	0.139	0.144	485275.516
		Total	100.000	816.127	96.961	100.000	

MC-190
N6-Benzyladenine, [8-14C]
Lot 195-052-0586-A-20080620-JZ

Chromatogram Info:

File Name	: L:\int42297	File Created	: 10/18/2013 3:59:39 PM
Origin	: Acquired, Acquisition started 3/10/2010 2:27:47 PM	Acquired Date	: 3/10/2010 3:07:45 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of standard alone	Modified	: 10/18/2013 4:05 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



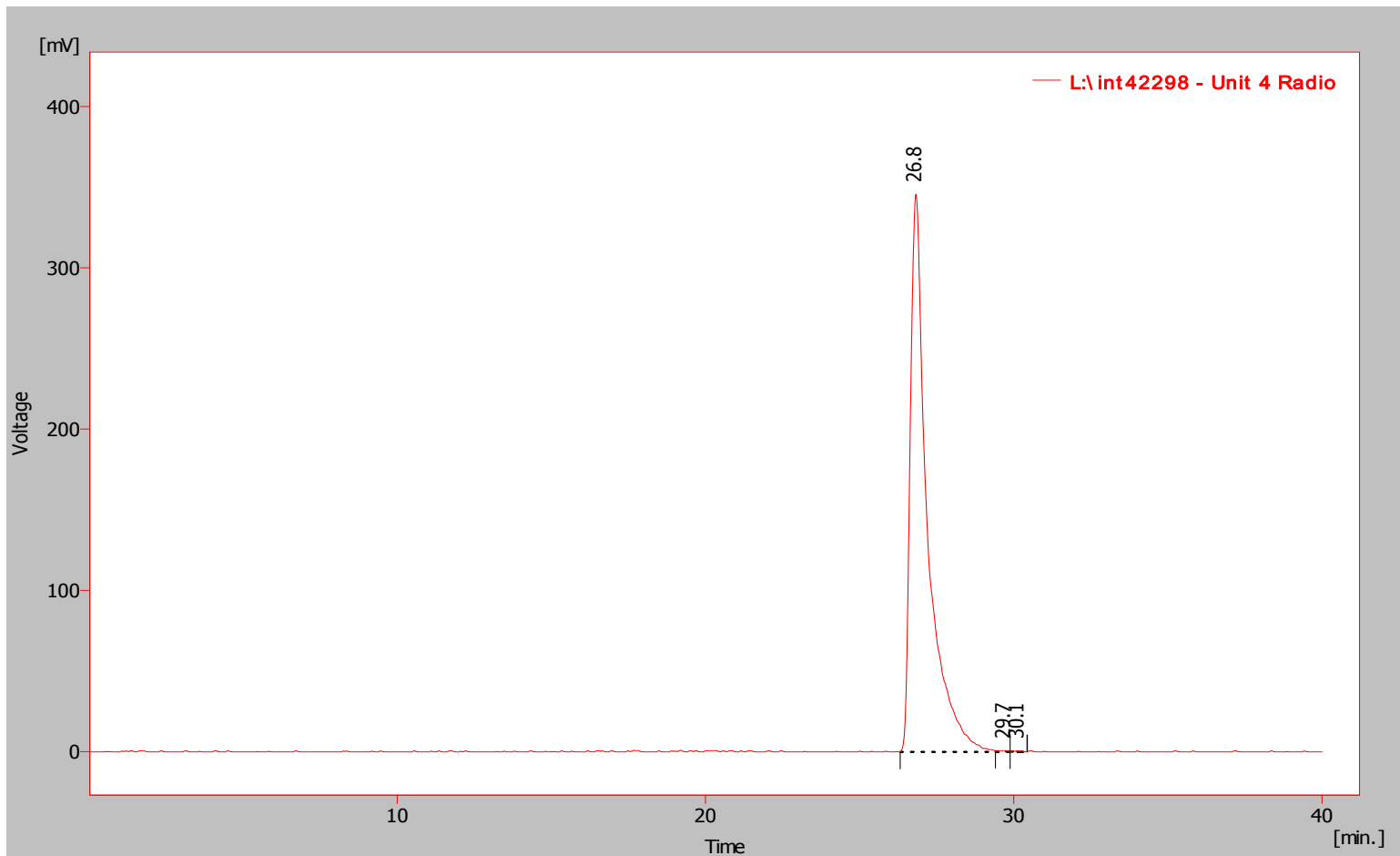
Result Table (Uncal - L:\int42297 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		12.457	0.139	4.927	0.480	0.110	36562.872
2		25.723	0.062	2.186	0.260	0.060	240992.384
3		26.440	99.777	3529.524	434.718	99.797	340388.767
4		27.387	0.022	0.774	0.143	0.033	706927.626
		Total	100.000	3537.412	435.601	100.000	

MC-190
N6-Benzyladenine, [8-14C]
Lot 195-052-0586-A-20080620-JZ

Chromatogram Info:

File Name	: L:\int42298	File Created	: 10/18/2013 3:59:39 PM
Origin	: Acquired, Acquisition started 3/10/2010 3:42:46 PM	Acquired Date	: 3/10/2010 4:22:45 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard	Modified	: 10/18/2013 4:07 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



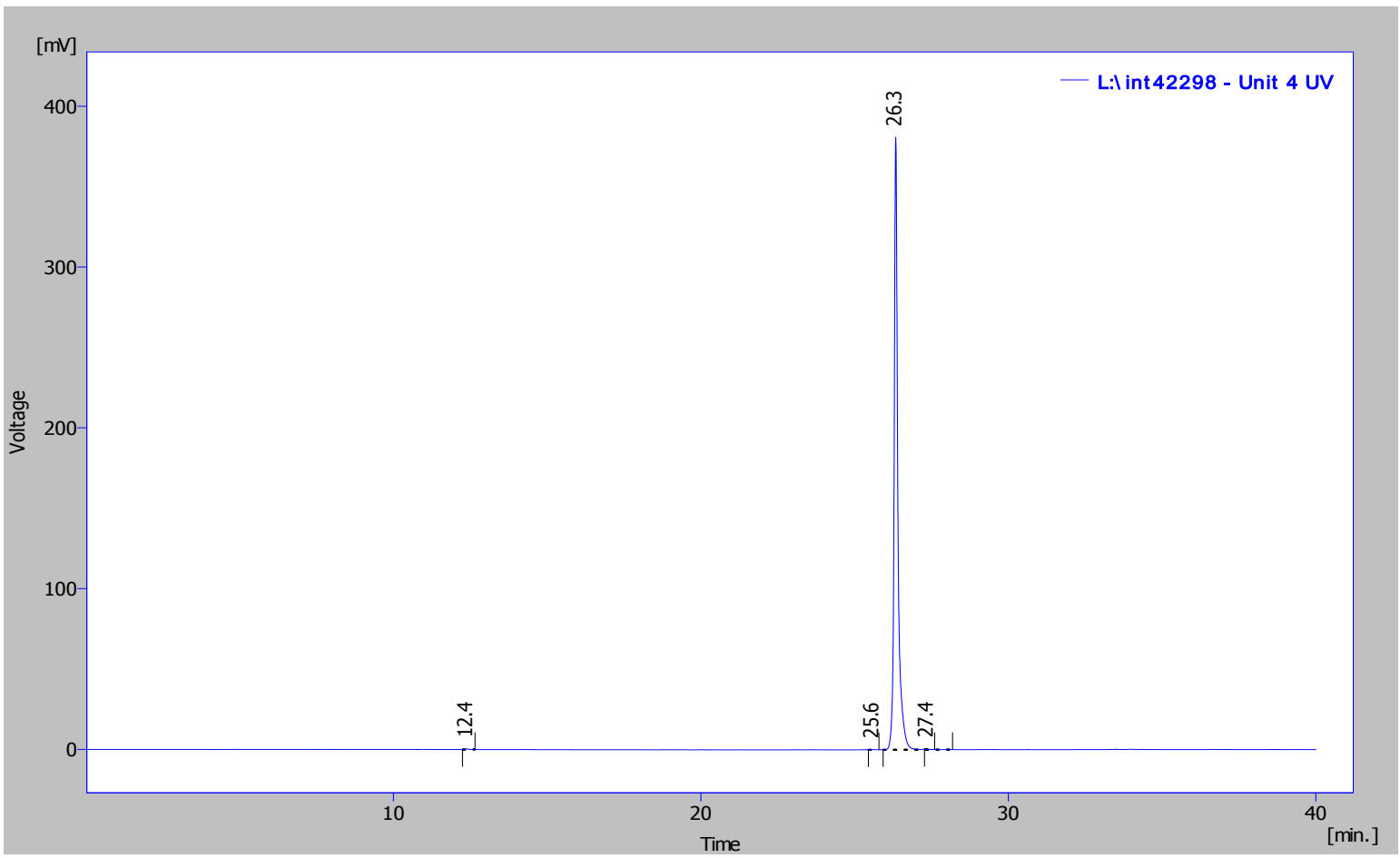
Result Table (Uncal - L:\int42298 - Unit 4 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		26.827	99.836	13489.686	345.703	99.652	15947.888
2		29.707	0.084	11.388	0.554	0.160	29083.716
3		30.137	0.080	10.822	0.653	0.188	391728.229
		Total	100.000	13511.896	346.909	100.000	

MC-190
N6-Benzyladenine, [8-14C]
Lot 195-052-0586-A-20080620-JZ

Chromatogram Info:

File Name	: L:\int42298	File Created	: 10/18/2013 3:59:39 PM
Origin	: Acquired, Acquisition started 3/10/2010 3:42:46 PM	Acquired Date	: 3/10/2010 4:22:45 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 10/18/2013 4:08 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



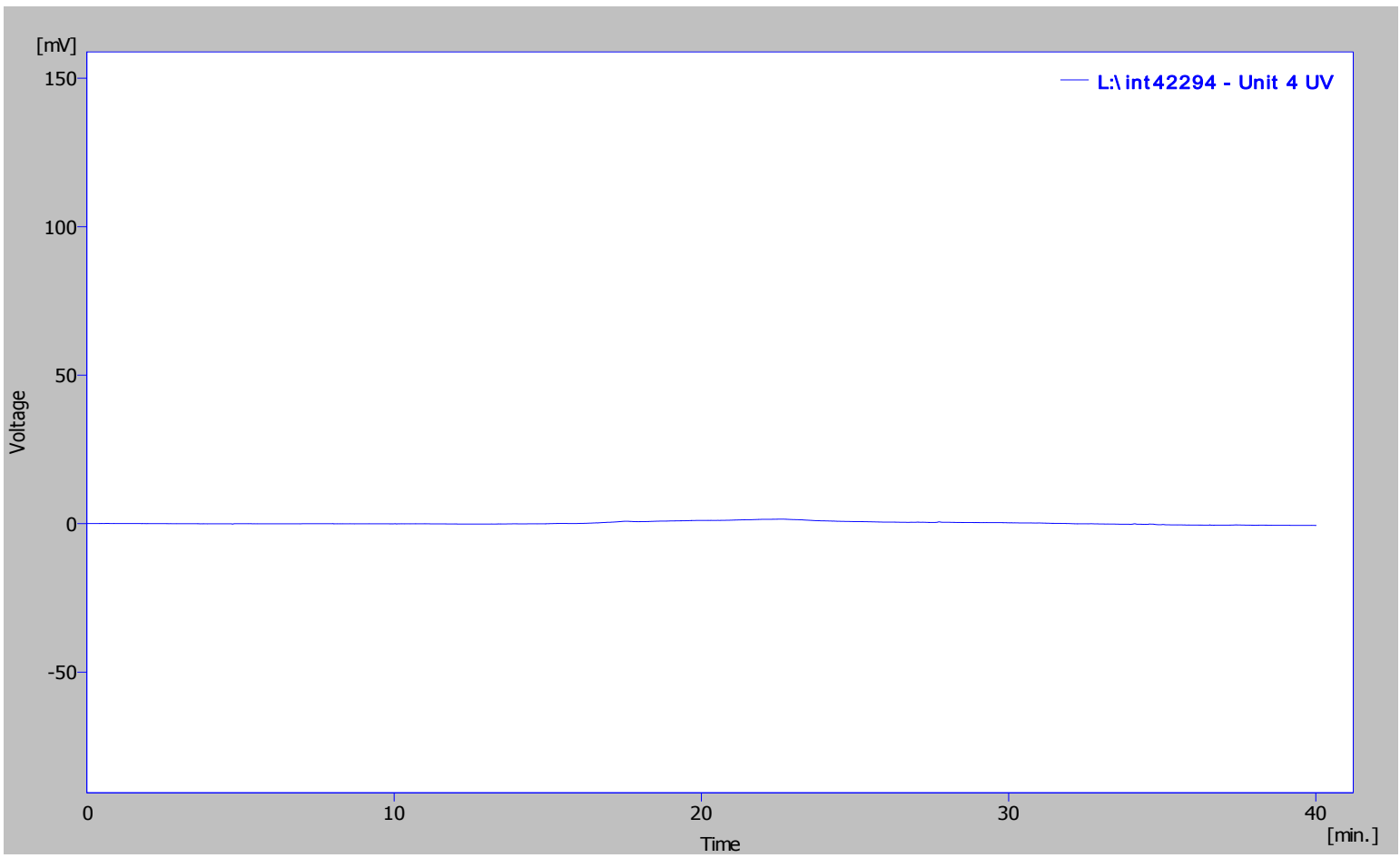
Result Table (Uncal - L:\int42298 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		12.383	0.101	3.240	0.417	0.109	66140.819
2		25.590	0.034	1.100	0.129	0.034	214666.182
3		26.337	99.834	3190.172	380.647	99.809	317574.782
4		27.367	0.030	0.969	0.181	0.047	648296.378
		Total	100.000	3195.480	381.374	100.000	

MC-190
N6-Benzyladenine, [8-14C]
Lot 195-052-0586-A-20080620-JZ

Chromatogram Info:

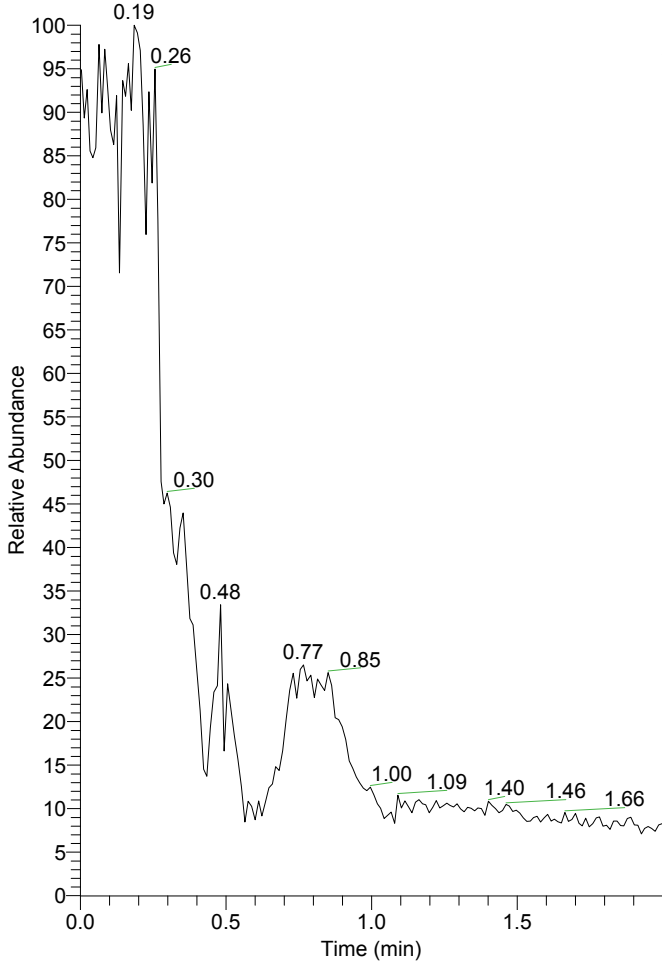
File Name	: L:\int42294	File Created	: 10/18/2013 3:59:39 PM
Origin	: Acquired, Acquisition started 3/10/2010 11:02:36 AM	Acquired Date	: 3/10/2010 11:42:35 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 10/18/2013 4:01 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int42294 - Unit 4 UV)

Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.p]
No peak to report						

RT: 0.00 - 2.00



NL:
9.87E7
TIC MS
MC190-
20080620-
JZ

MC190-20080620-JZ#1-173 RT: 0.00-2.00 AV:

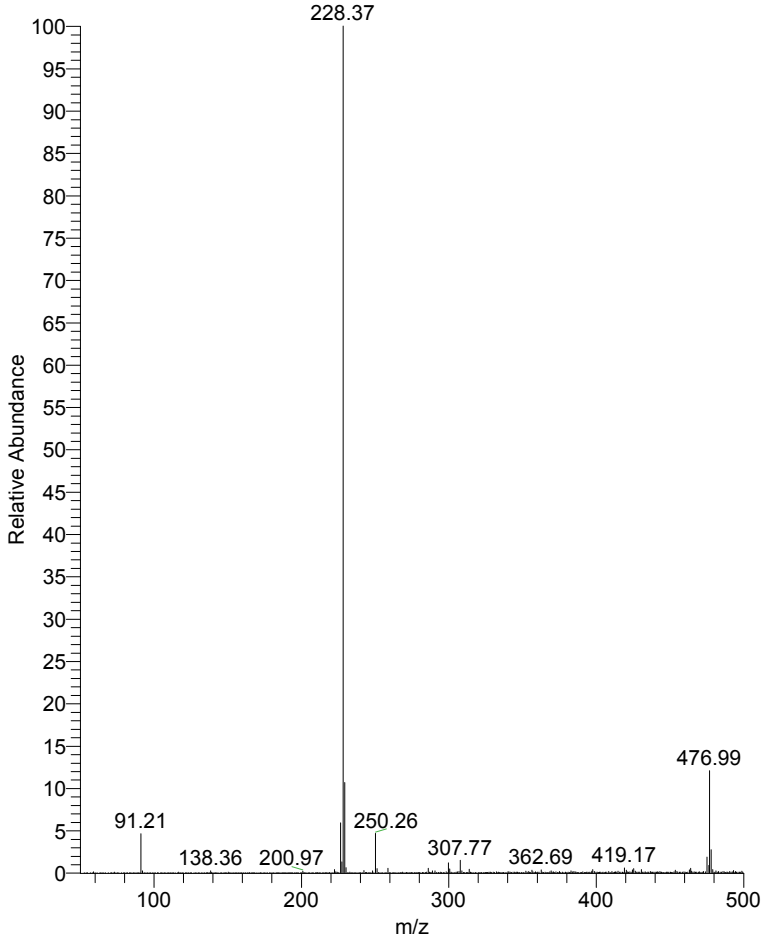
T: + c NSI Full ms [50.00-500.00]

m/z= 221.82-238.93

m/z	Intensity	Relative
224.90	8993.2	0.06
225.59	2064.2	0.01
226.56	849193.4	5.90
227.55	190047.0	1.32
228.37	14389348.5	100.00
229.35	1538050.4	10.69
230.36	91849.6	0.64
231.12	4928.9	0.03
231.82	1563.2	0.01
232.84	11434.5	0.08
233.75	1706.4	0.01
234.34	1983.2	0.01
235.14	2147.9	0.01
236.02	1270.9	0.01
236.83	2679.9	0.02
237.74	2397.4	0.02
238.50	2167.0	0.02

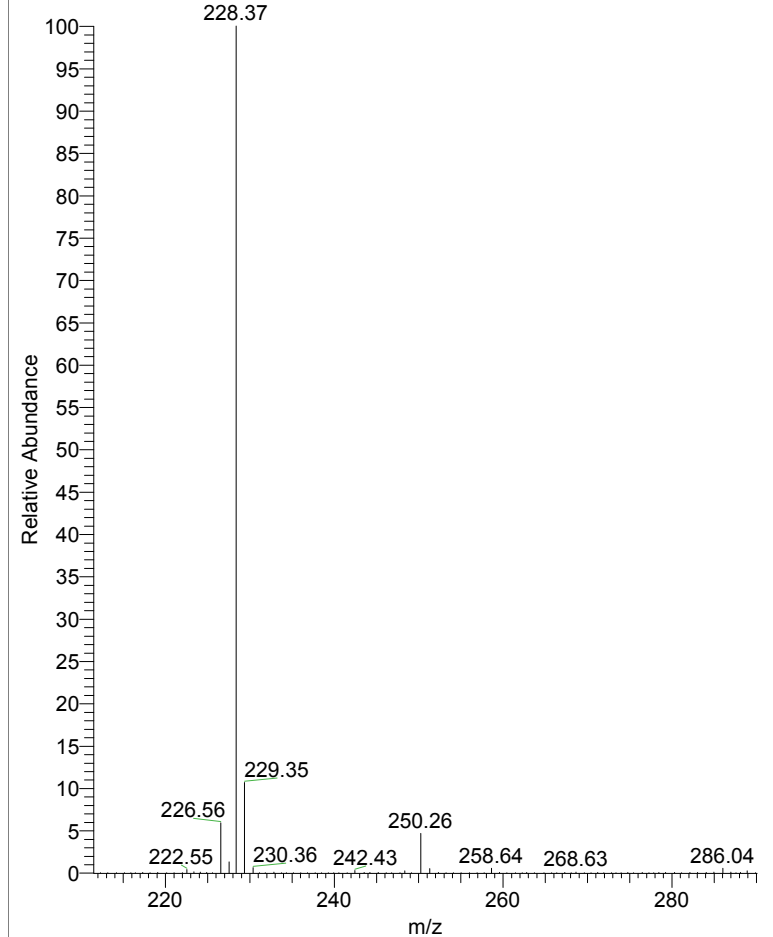
MC190-20080620-JZ #1-173 RT: 0.00-2.00 AV: 173 NL: 1.44E7

T: + c NSI Full ms [50.00-500.00]



MC190-20080620-JZ #1-173 RT: 0.00-2.00 AV: 173 NL: 1.44E7

T: + c NSI Full ms [50.00-500.00]



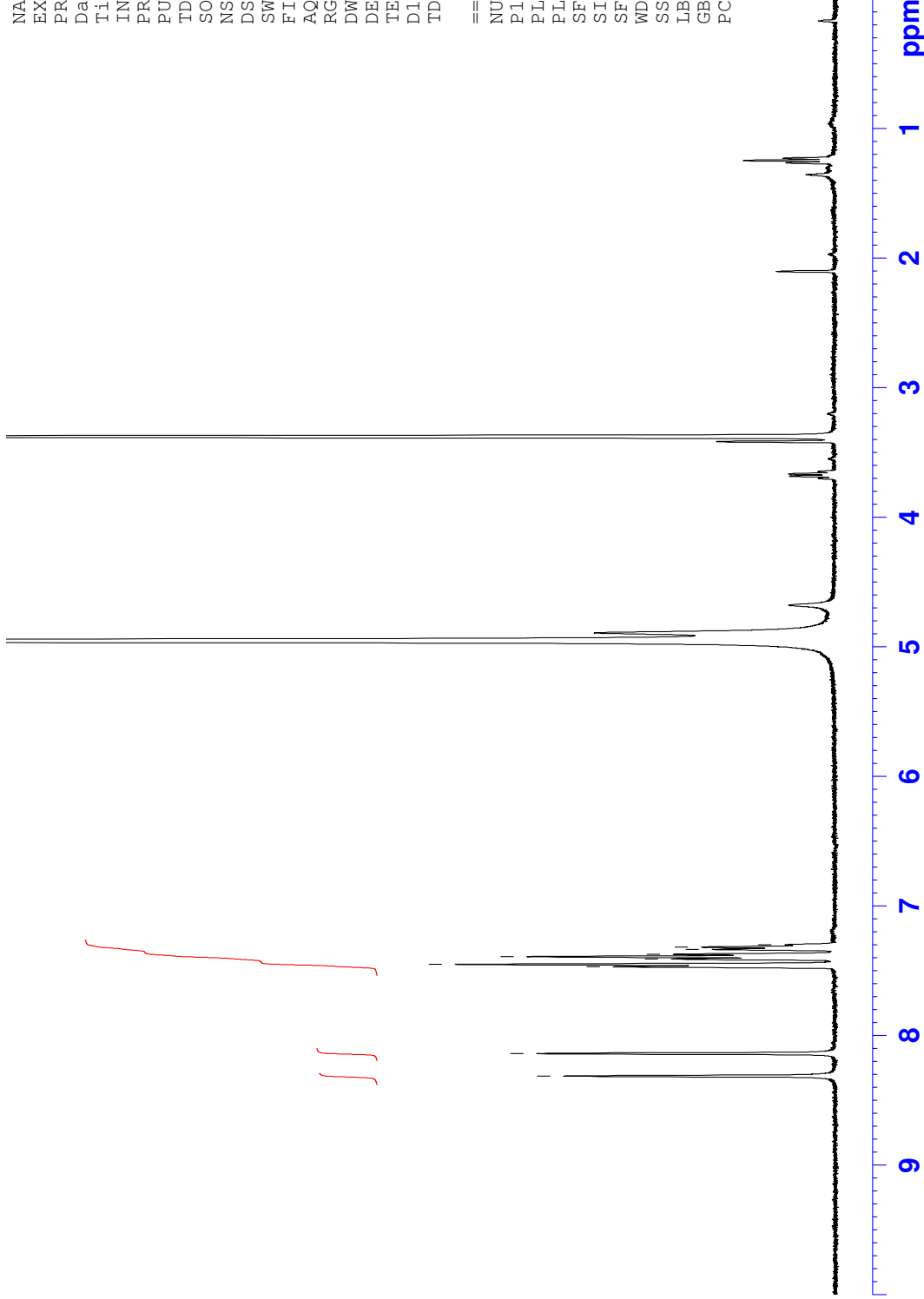
MC190 1H NMR in MeOD
Batch 20080620-JZ



8.314
8.140
7.470
7.451
7.410
7.391
7.373
7.336
7.318
7.300

NAME MC190-20080620-JZ
EXPNO 1
PROCNO 1
Date_ 20100310
Time 15.01
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 761
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 4
DW 60.400 usec
DE 6.50 usec
TE 294.7 K
D1 1.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1299812 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



1.00
1.04
5.04