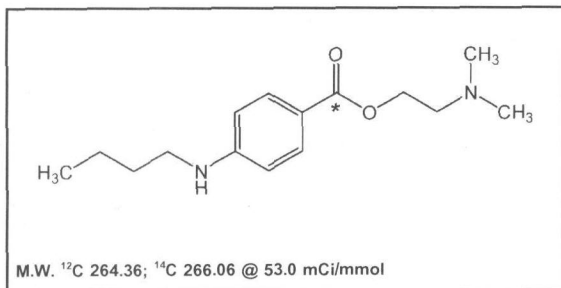




Product Data Sheet

MC-2062

Tetracaine, [carbonyl-¹⁴C]-



Lot #: 211-055-053-A-20101111-DR

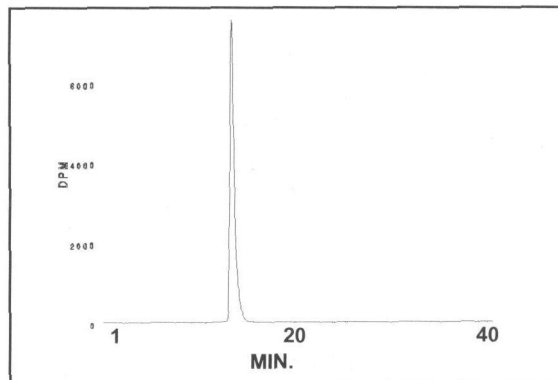
Specific Activity: 53.0 mCi/mmol

Concentration: 0.1 mCi/ml; 501.99 μ g/ml

Packaged in: Ethanol solution

Date of Analysis: November 29, 2010

Radiochemical Purity: 99.6%



HPLC ANALYSIS LOT 211-055-053-A-20101111-DR
File Name: intrn2860 Date and Time: 11/29/2010 9:45:35 A
Unit 21 Radio

Peak #	Area %	Time	Area
1	0.24	12.41670	59.02971
2	99.66	13.23670	24722.86540
3	0.04	15.28670	8.83152
4	0.01	15.71670	2.32459
5	0.01	16.37000	3.59999
6	0.04	18.95670	10.92662
Totals	100.00		24807.57783

Stability and 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.

MC-2062

Tetracaine, [carbonyl-¹⁴C]-

Lot 211-055-053-A-20101111-DR

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.

Tetracaine, [carbonyl-¹⁴C]- concentration was 0.1 mCi/ml.

Volume of standard alone injection was 15.0 µl.

Volume of **Tetracaine, [carbonyl-¹⁴C]-** alone injection was 1.0 µl.

Co-injection solution consisted of 1.0 µl **Tetracaine, [carbonyl-¹⁴C]-** + 15.0 µl standard.

Volume of co-injection was 16.0 µl.

Volume of blank injection was 1.0 µl.

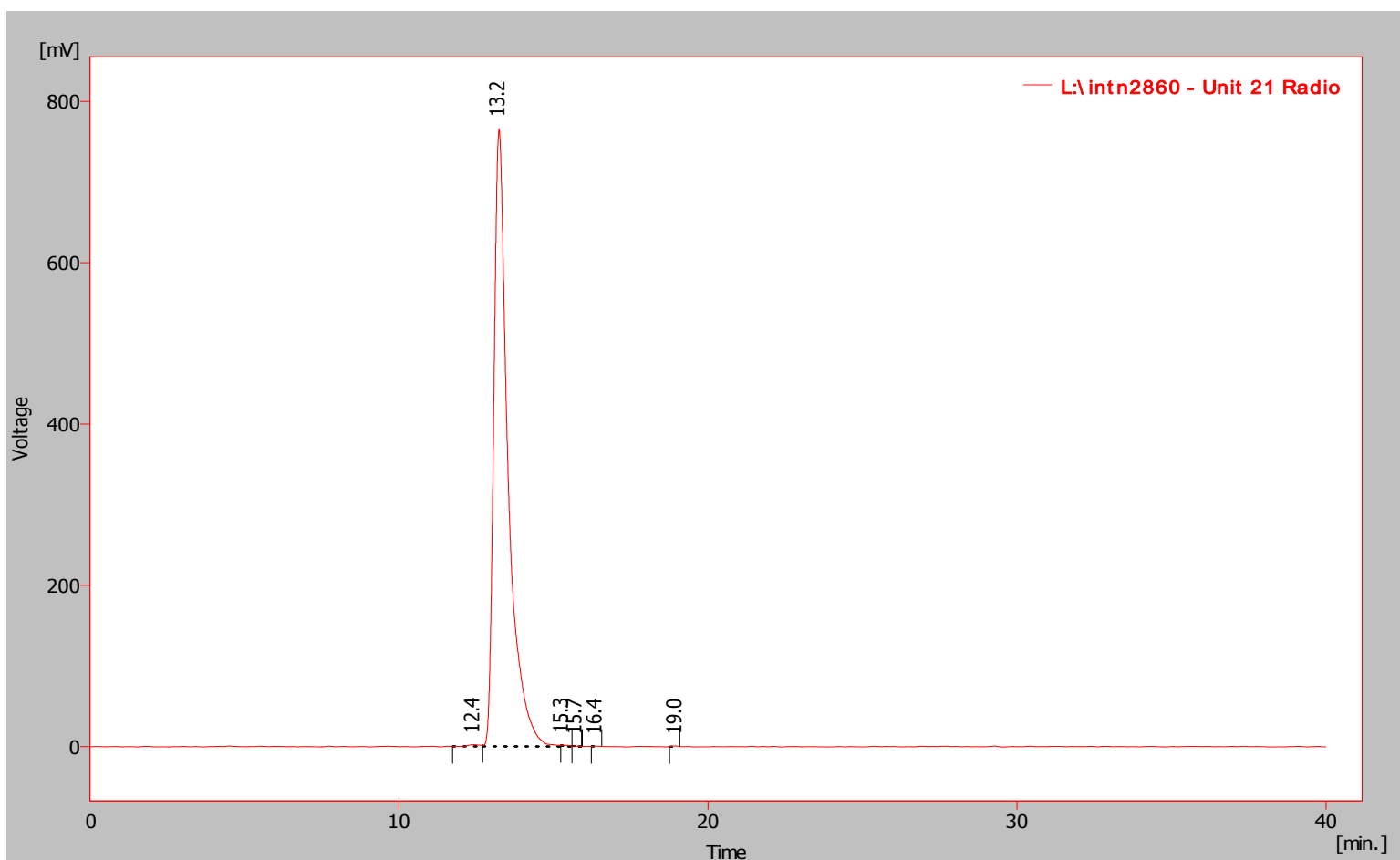
B) Mass spectrometry - Positive mode

C) NMR

MC-2062
Tetracaine, [carbonyl-14C]-
Lot 211-055-053-A-20101111-DR

Chromatogram Info:

File Name	: L:\intn2860	File Created	: 11/6/2013 2:21:19 PM
Origin	: Acquired, Acquisition started 11/29/2010 9:05:36 AM	Acquired Date	: 11/29/2010 9:45:35 AM
Project	: Test	By	: Administrator
Method	: Unit_21_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 11/6/2013 3:13 PM
Created	: 4/17/2008 10:21 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



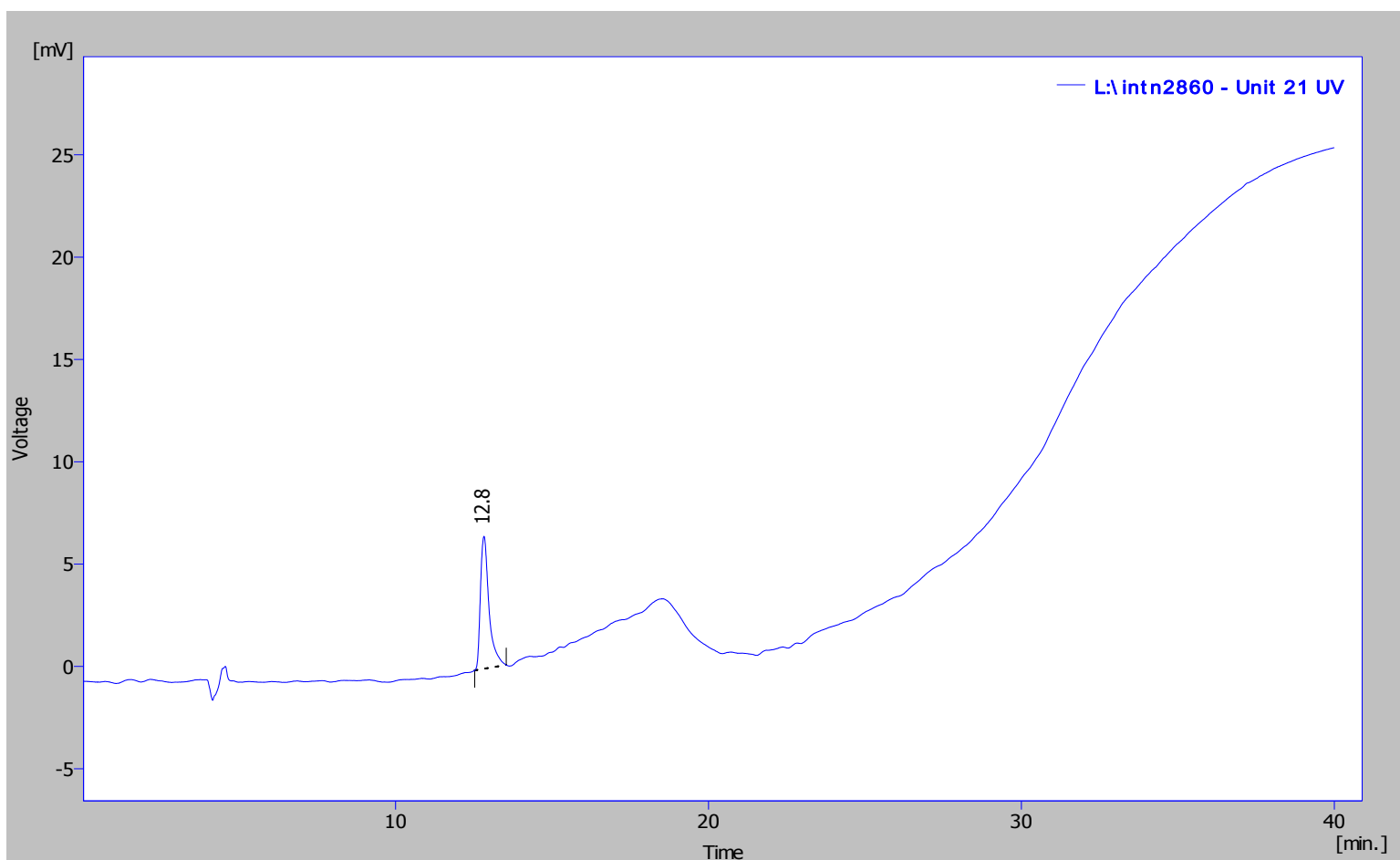
Result Table (Uncal - L:\intn2860 - Unit 21 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		12.417	0.24	59.030	2.271	0.295	3656.169
2		13.237	99.66	24722.865	765.864	99.450	4938.627
3		15.287	0.04	8.832	0.428	0.056	28445.785
4		15.717	0.01	2.325	0.257	0.033	481097.604
5		16.370	0.01	3.600	0.335	0.044	75744.491
6		18.957	0.04	10.927	0.941	0.122	36566.226
		Total	100.00	24807.578	770.097	100.000	

MC-2062
Tetracaine, [carbonyl-14C]-
Lot 211-055-053-A-20101111-DR

Chromatogram Info:

File Name	: L:\intn2860	File Created	: 11/6/2013 2:21:19 PM
Origin	: Acquired, Acquisition started 11/29/2010 9:05:36 AM	Acquired Date	: 11/29/2010 9:45:35 AM
Project	: Test	By	: Administrator
Method	: Unit_21_40_min_run	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 11/6/2013 3:15 PM
Created	: 4/17/2008 10:21 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



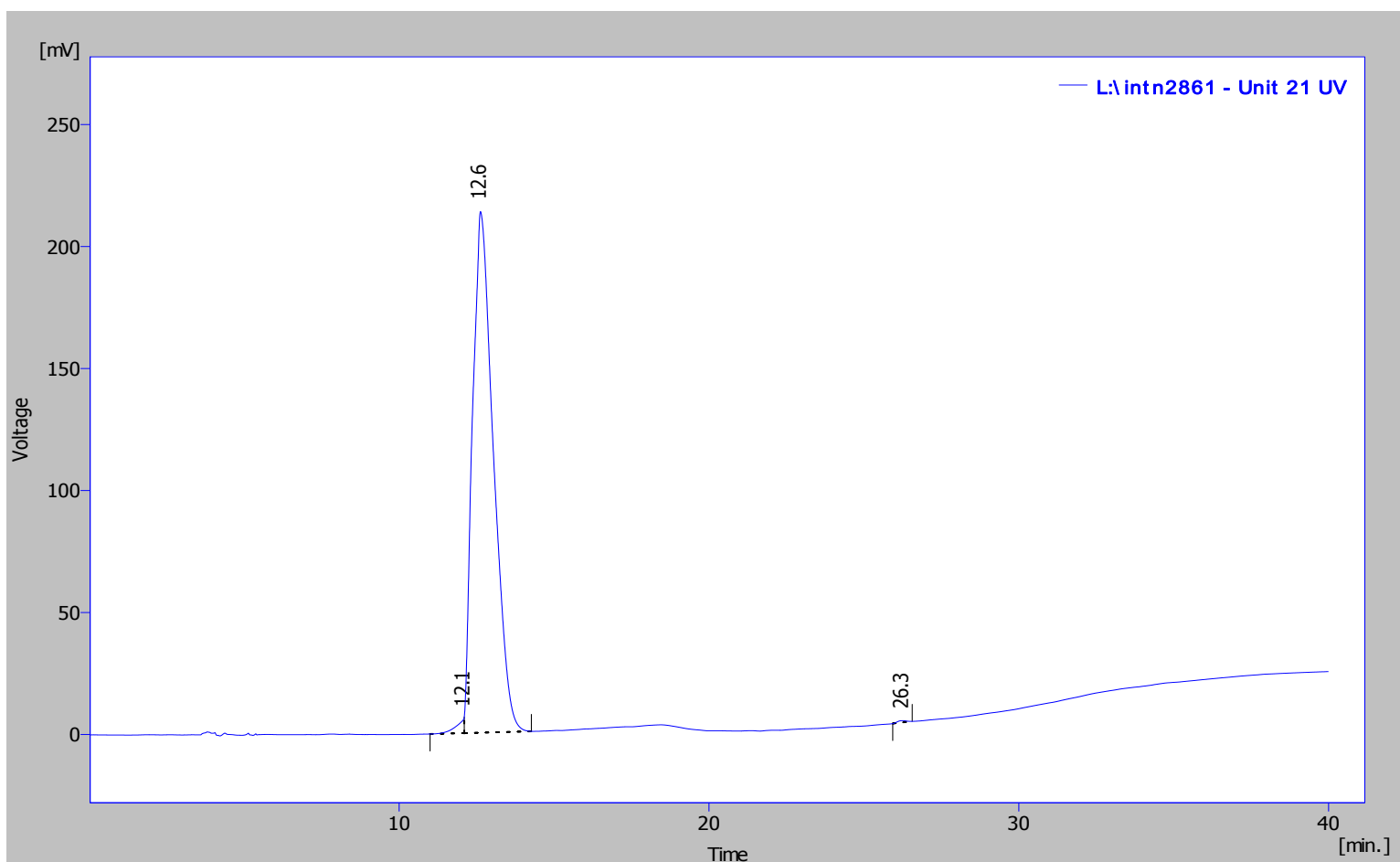
Result Table (Uncal - L:\intn2860 - Unit 21 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		12.823	100.00	123.403	6.477	100.000	11901.397
		Total	100.00	123.403	6.477	100.000	

MC-2062
Tetracaine, [carbonyl-14C]-
Lot 211-055-053-A-20101111-DR

Chromatogram Info:

File Name	: L:\intn2861	File Created	: 11/6/2013 2:21:19 PM
Origin	: Acquired, Acquisition started 11/29/2010 9:55:25 AM	Acquired Date	: 11/29/2010 10:35:24 AM
Project	: Test	By	: Administrator
Method	: Unit_21_40_min_run	By	: Administrator
Description	: UV trace of standard alone	Modified	: 11/6/2013 3:17 PM
Created	: 4/17/2008 10:21 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



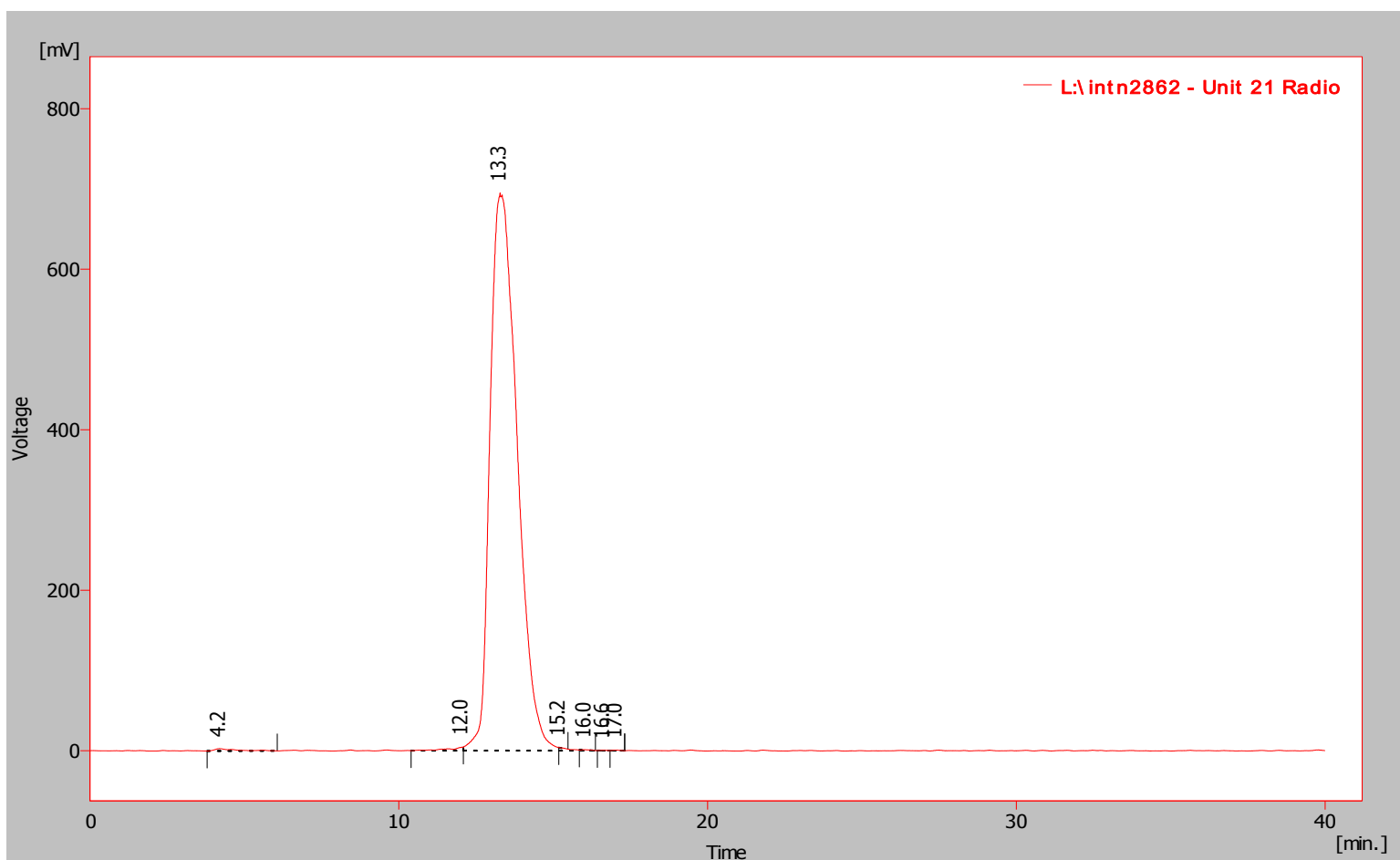
Result Table (Uncal - L:\intn2861 - Unit 21 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		12.097	1.03	104.178	6.127	2.779	14473.281
2		12.627	98.82	9983.622	213.596	96.885	1515.859
3		26.250	0.15	15.391	0.740	0.336	17782.028
		Total	100.00	10103.190	220.462	100.000	

MC-2062
Tetracaine, [carbonyl-14C]-
Lot 211-055-053-A-20101111-DR

Chromatogram Info:

File Name	: L:\intn2862	File Created	: 11/6/2013 2:21:18 PM
Origin	: Acquired, Acquisition started 11/29/2010 11:05:05 AM	Acquired Date	: 11/29/2010 11:45:04 AM
Project	: Test	By	: Administrator
Method	: Unit_21_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard	Modified	: 11/6/2013 3:20 PM
Created	: 4/17/2008 10:21 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



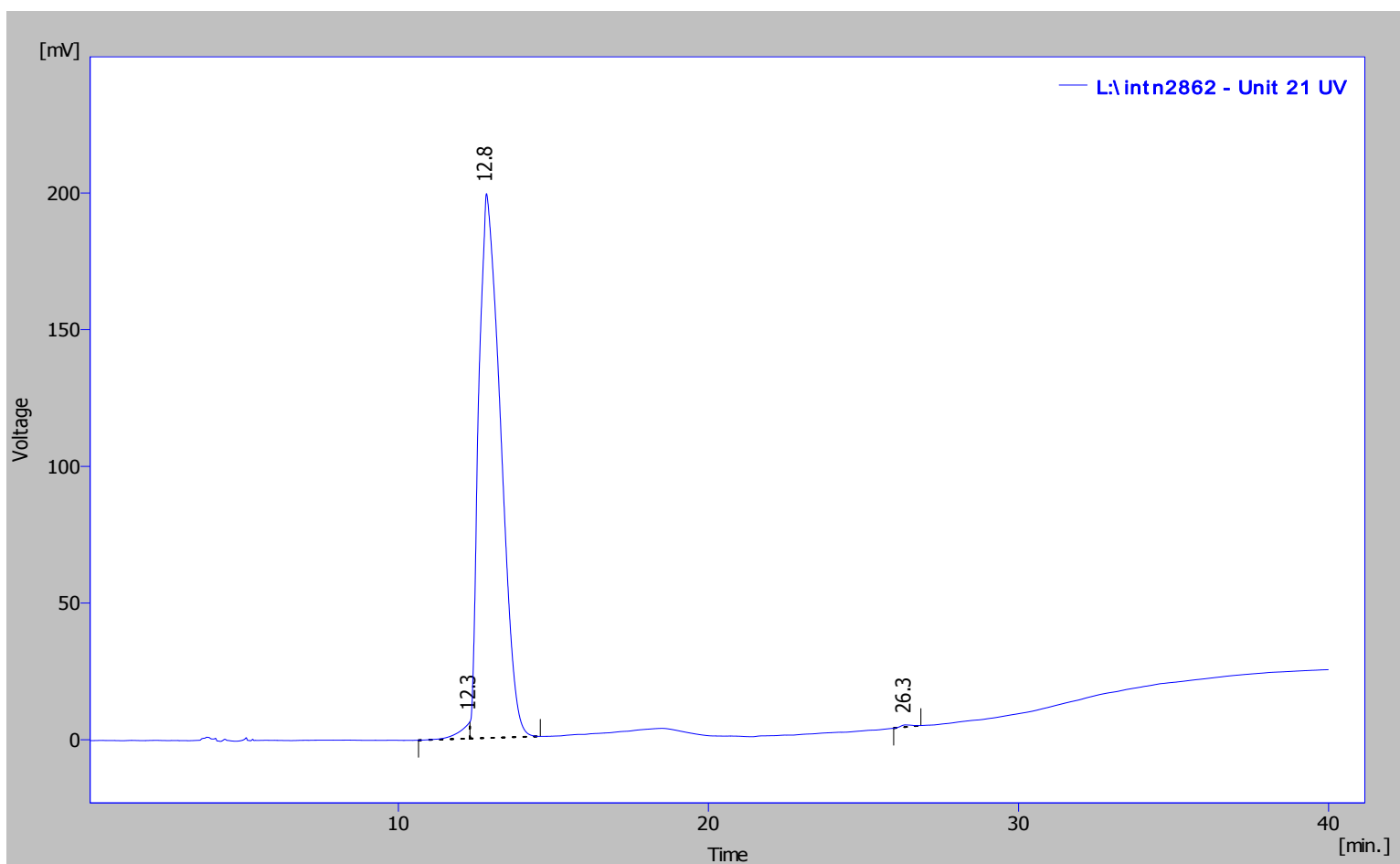
Result Table (Uncal - L:\intn2862 - Unit 21 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		4.193	0.33	142.779	3.147	0.446	235.373
2		12.047	0.38	161.281	4.605	0.653	13957.932
3		13.280	99.21	42525.290	695.072	98.592	1060.141
4		15.197	0.01	5.268	0.295	0.042	2349918.872
5		16.033	0.03	12.008	0.656	0.093	26921.654
6		16.627	0.02	6.518	0.467	0.066	30705.279
7		17.033	0.03	11.966	0.759	0.108	28696.892
		Total	100.00	42865.110	705.002	100.000	

MC-2062
Tetracaine, [carbonyl-14C]-
Lot 211-055-053-A-20101111-DR

Chromatogram Info:

File Name	: L:\intn2862	File Created	: 11/6/2013 2:21:18 PM
Origin	: Acquired, Acquisition started 11/29/2010 11:05:05 AM	Acquired Date	: 11/29/2010 11:45:04 AM
Project	: Test	By	: Administrator
Method	: Unit_21_40_min_run	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 11/6/2013 3:18 PM
Created	: 4/17/2008 10:21 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



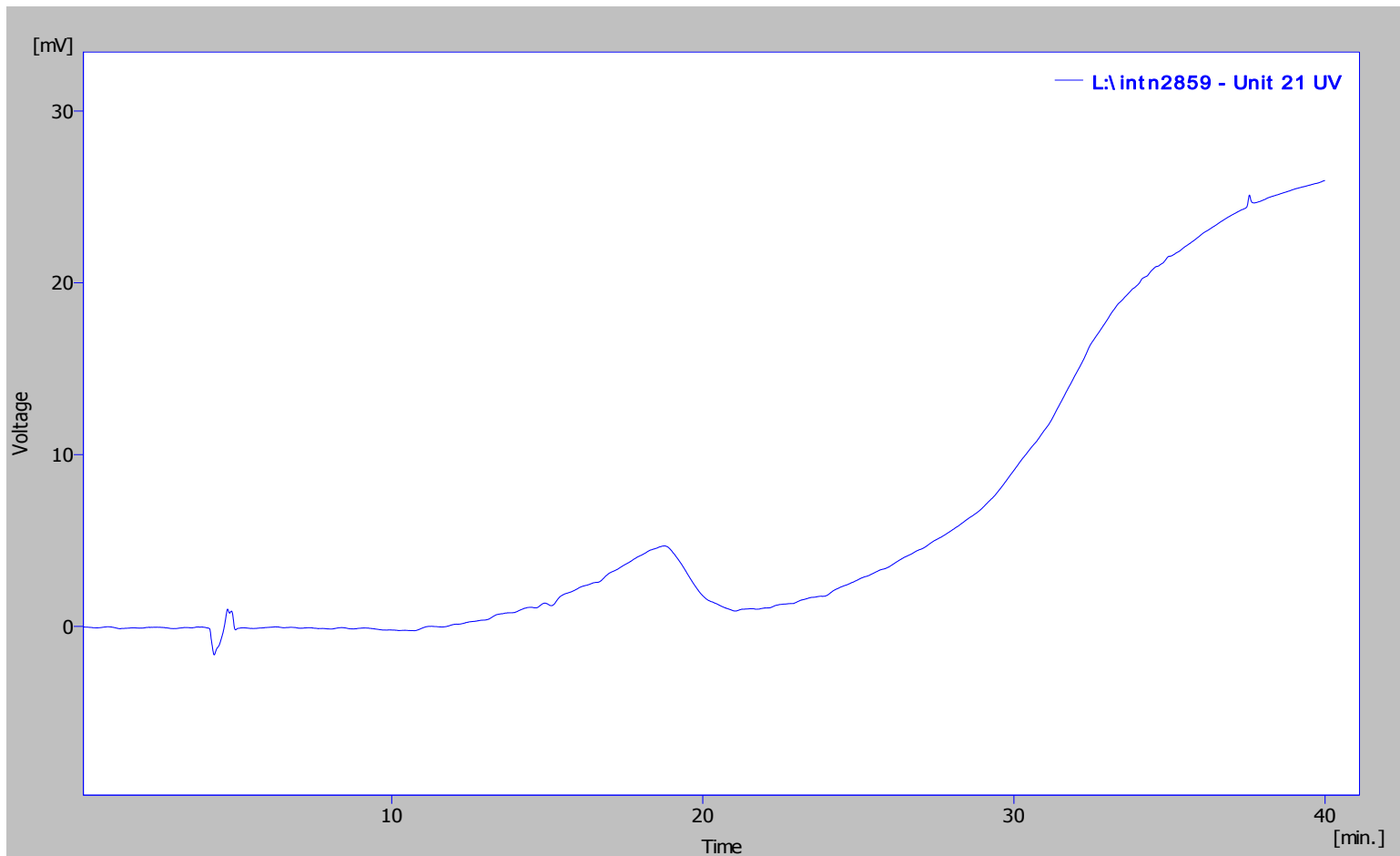
Result Table (Uncal - L:\intn2862 - Unit 21 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		12.303	1.33	131.503	6.069	2.946	10955.739
2		12.843	98.47	9716.378	199.156	96.664	1359.057
3		26.343	0.19	19.098	0.804	0.390	9484.774
		Total	100.00	9866.979	206.029	100.000	

MC-2062
Tetracaine, [carbonyl-14C]-
Lot 211-055-053-A-20101111-DR

Chromatogram Info:

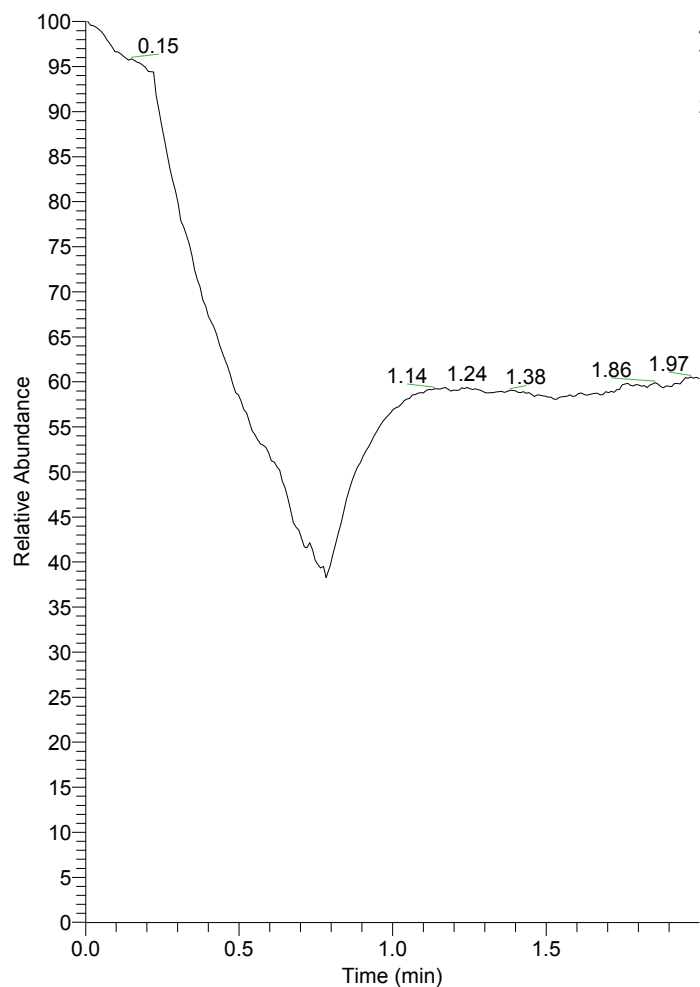
File Name	: L:\intn2859	File Created	: 11/6/2013 2:21:19 PM
Origin	: Acquired, Acquisition started 11/29/2010 8:12:14 AM	Acquired Date	: 11/29/2010 8:52:14 AM
Project	: Test	By	: Administrator
Method	: Unit_21_40_min_run	By	: Administrator
Description	: UV trace of blank injection	Modified	: 11/6/2013 3:21 PM
Created	: 4/17/2008 10:21 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intn2859 - Unit 21 UV)

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

RT: 0.00 - 2.00



NL:
4.14E8
TIC F: MS
MCS313-
20101111-
DR-MS

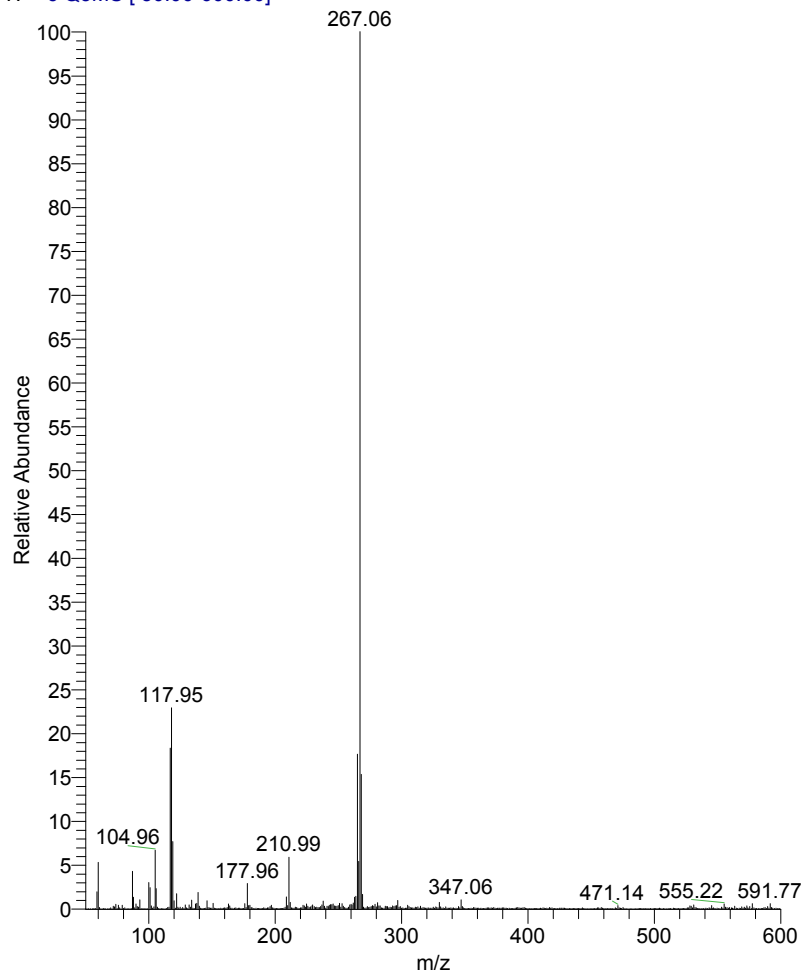
MC2062-20101111-DR-MS#1-223 RT: 0.01-2.00

T: + c Q3MS [50.00-600.00]

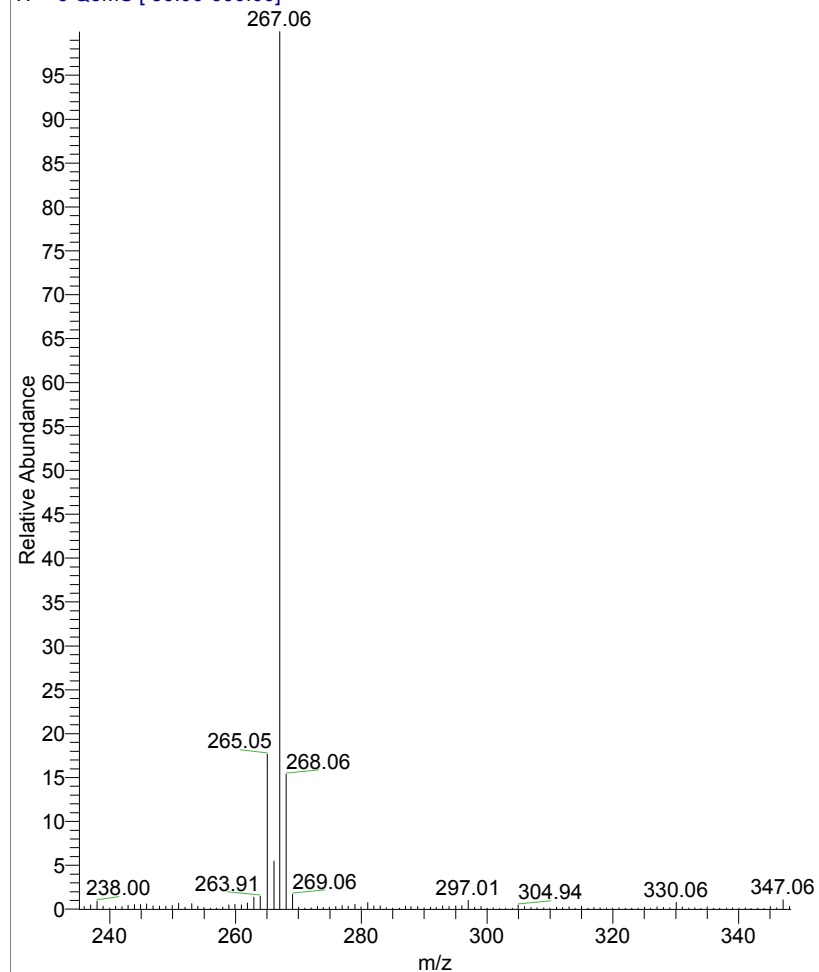
m/z= 257.85-281.65

m/z	Intensity	Relative
259.92	440057.9	0.53
260.92	377692.5	0.45
261.91	559782.4	0.67
262.92	1102283.3	1.32
263.91	1201717.4	1.44
265.05	14742318.3	17.62
266.10	4544008.4	5.43
267.06	83650499.6	100.00
268.06	12821007.9	15.33
269.06	1384473.6	1.66
270.02	166762.4	0.20
273.03	215985.3	0.26
275.93	227056.3	0.27
276.94	315547.9	0.38
277.90	244693.5	0.29
278.99	449192.6	0.54
279.98	197409.7	0.24
281.03	602357.1	0.72

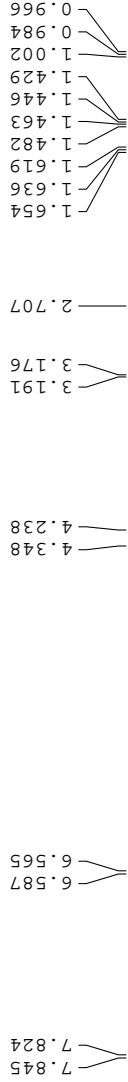
MC2062-20101111-DR-MS #1-223 RT: 0.01-2.00 AV: 223 NL: 8.37E7
T: + c Q3MS [50.00-600.00]



MC2062-20101111-DR-MS #1-223 RT: 0.01-2.00 AV: 223 NL: 8.37E7
T: + c Q3MS [50.00-600.00]



MC2062 1H NMR in CD2Cl2
 Batch 20101111-DR



```

NAME MC2062
EXPNO 1
PROCNO 1
Date_ 20101129
Time_ 15.57
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CD2Cl2
NS 512
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
SF01 400.1324710 MHz
SI 32768
SF 400.1300051 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
  
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