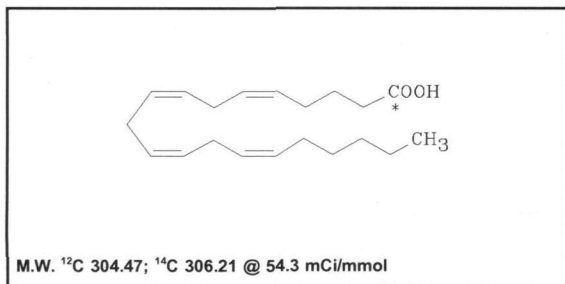




## Product Data Sheet

**MC-364**

**Arachidonic acid, [1-<sup>14</sup>C]-**



**Lot #:** 167-081-0543-A-20090330-NT

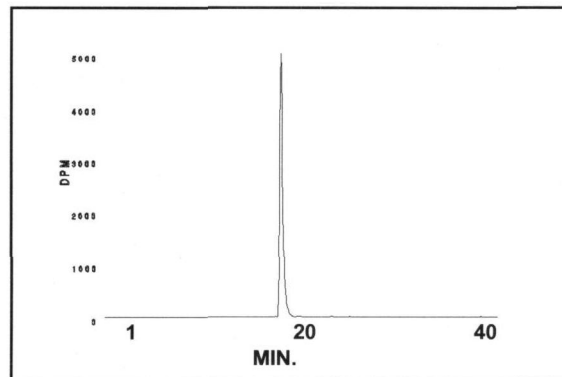
**Specific Activity:** 54.3 mCi/mmol

**Concentration:** 0.05 mCi/ml; 281.96 µg/ml

**Packaged in:** Ethanol solution under argon

**Date of Analysis:** April 2, 2009

**Radiochemical Purity:** 99.7%



HPLC ANALYSIS LOT 167-081-0543-A-20090330-NT  
File Name: intrn1078 Date and Time: 4/2/2009 10:01:37 AM  
Unit 21 Radio

Peak #	Area %	Time	Area
1	0.07	16.58330	7.42330
2	99.75	18.02670	10795.25097
3	0.18	23.19330	19.68911
Totals	100.00		10822.36338

**Stability and Storage Recommendation:** The rate of decomposition is approximately 0.1-0.5%/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-364**

**Arachidonic acid, [1-<sup>14</sup>C]-**

**Lot 167-081-0543-A-20090330-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.

**Arachidonic acid, [1-<sup>14</sup>C]-** concentration was 50.0 µCi/mL.

Volume of standard alone injection was 1.0 µL

Volume of **Arachidonic acid, [1-<sup>14</sup>C]-** alone injection was 1.0 µL.

Co-injection solution consisted of 0.5 µL **Arachidonic acid, [1-<sup>14</sup>C]-** + 0.5 µL standard.

Volume of co-injection was 1.0 µL.

Volume of blank injection was 1.0 µL.

**B) Mass spectrometry – Negative mode**

**C) NMR**

**MC-364**  
**Arachidonic acid, [1-14C]-**  
**Lot 167-081-0543-A-20090330-NT**

## Chromatogram Info:

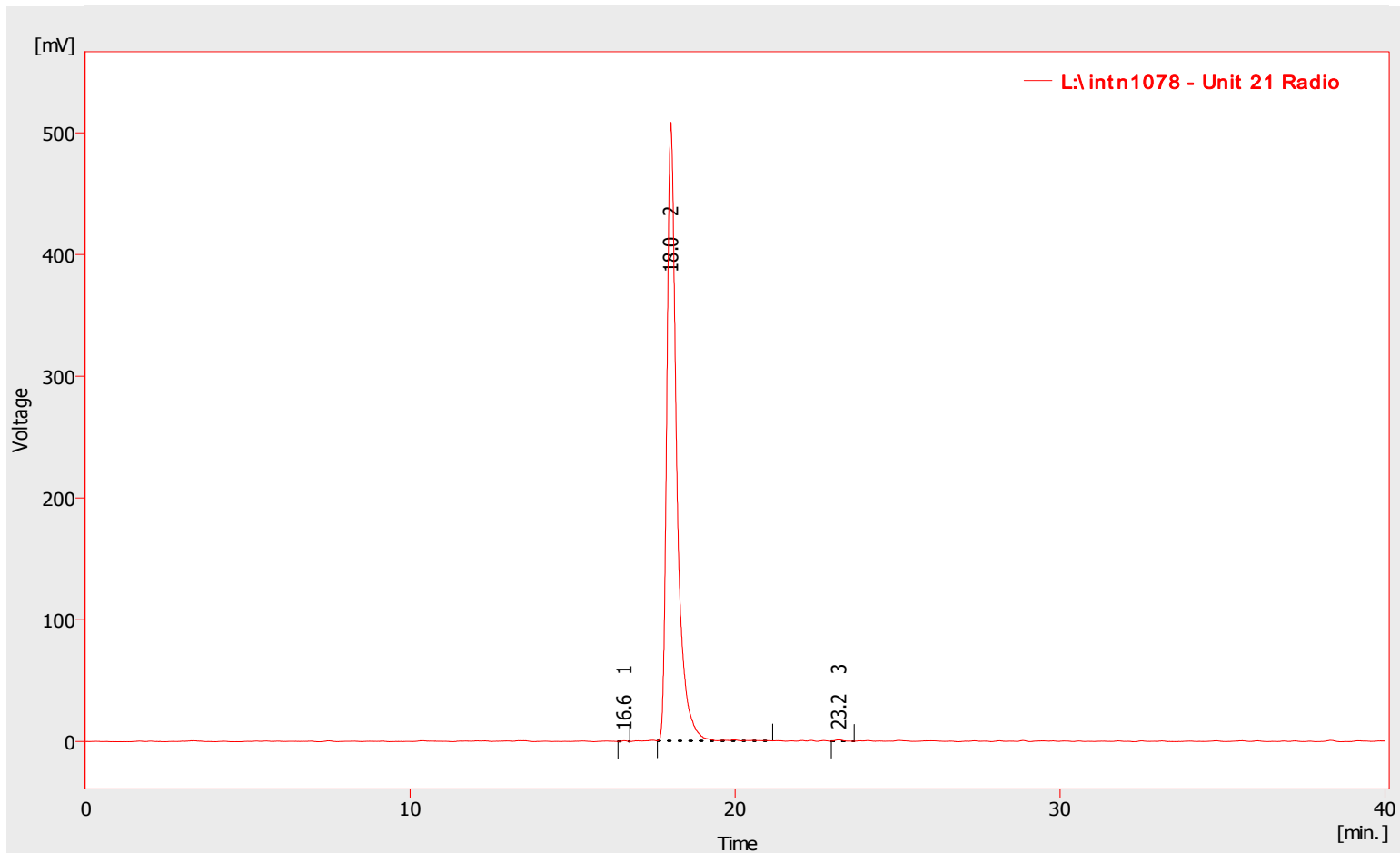
File Name	: L:\intn1078	File Created	: 4/2/2009 10:03:12 AM
Origin	: Acquired	Acquired Date	: 4/2/2009 10:01:37 AM
Project	: Work1	By	: Administrator

## Sample Info:

Sample ID	: Noname	Amount	: 0
Sample	: Noname	ISTD Amount	: 0
Inj. Volume [ml]	: 0	Dilution	: 1

Method	: Unit21_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 4/3/2009 10:40 AM
Created	: 4/17/2008 10:27 AM		

Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



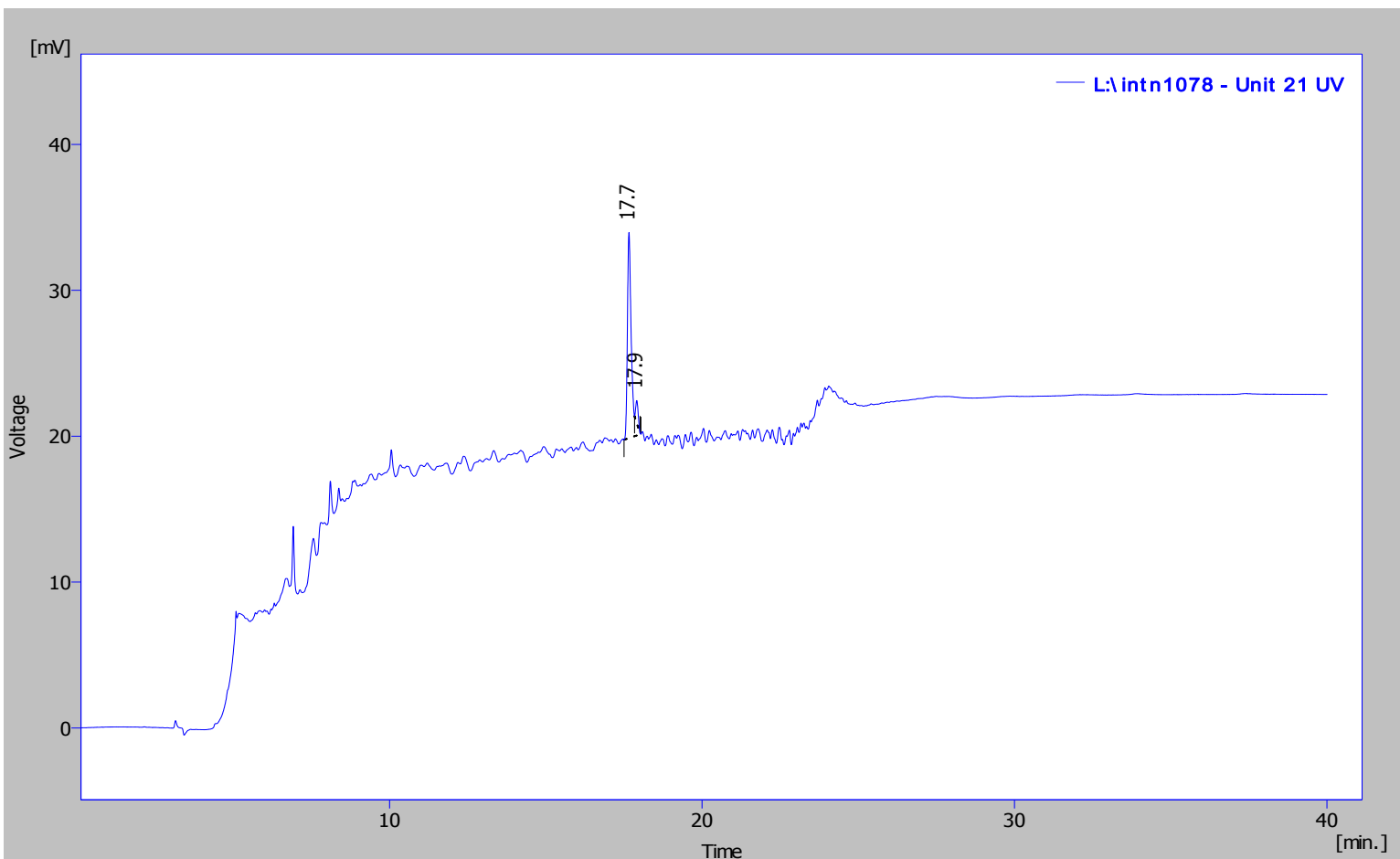
Result Table (Uncal - L:\intn1078 - Unit 21 Radio)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	16.583	7.423	0.672	0.07	0.1	0.20
2	18.027	10795.251	508.146	99.75	99.6	0.30
3	23.193	19.689	1.214	0.18	0.2	0.24
	Total	10822.363	510.032	100.00	100.0	

**MC-364**  
**Arachidonic acid, [1-14C]-**  
**Lot 167-081-0543-A-20090330-NT**

Chromatogram Info:

File Name	: L:\intn1078	File Created	: 10/24/2013 1:50:21 PM
Origin	: Acquired, Acquisition started 4/2/2009 9:21:39 AM	Acquired Date	: 4/2/2009 10:01:37 AM
Project	: Test	By	: Administrator
Method	: Unit21_40_min_run	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 10/24/2013 1:58 PM
Created	: 4/17/2008 10:27 AM	Detection	: UV 208nm
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



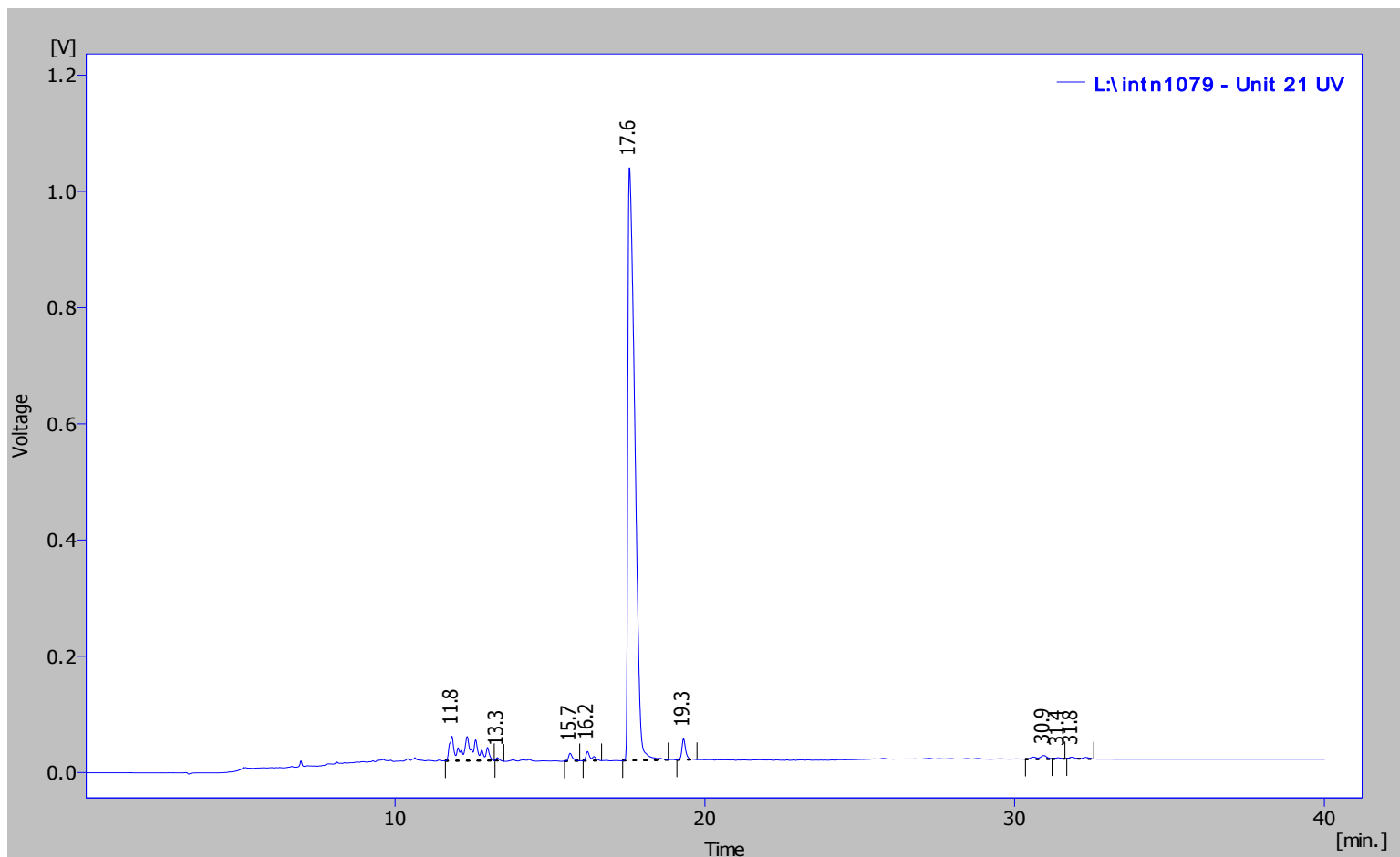
Result Table (Uncal - L:\intn1078 - Unit 21 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		17.660	93.708	124.241	14.093	90.213	107687.794
2		17.910	6.292	8.342	1.529	9.787	203998.692
		Total	100.000	132.583	15.622	100.000	

**MC-364**  
**Arachidonic acid, [1-14C]-**  
**Lot 167-081-0543-A-20090330-NT**

Chromatogram Info:

File Name	: L:\intn1079	File Created	: 10/24/2013 1:50:21 PM
Origin	: Acquired, Acquisition started 4/2/2009 10:24:37 AM	Acquired Date	: 4/2/2009 11:04:35 AM
Project	: Test	By	: Administrator
Method	: Unit21_40_min_run	By	: Administrator
Description	: UV trace of standard alone	Modified	: 10/24/2013 1:59 PM
Created	: 4/17/2008 10:27 AM		
Column	:	Detection	: UV 208nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intn1079 - Unit 21 UV)

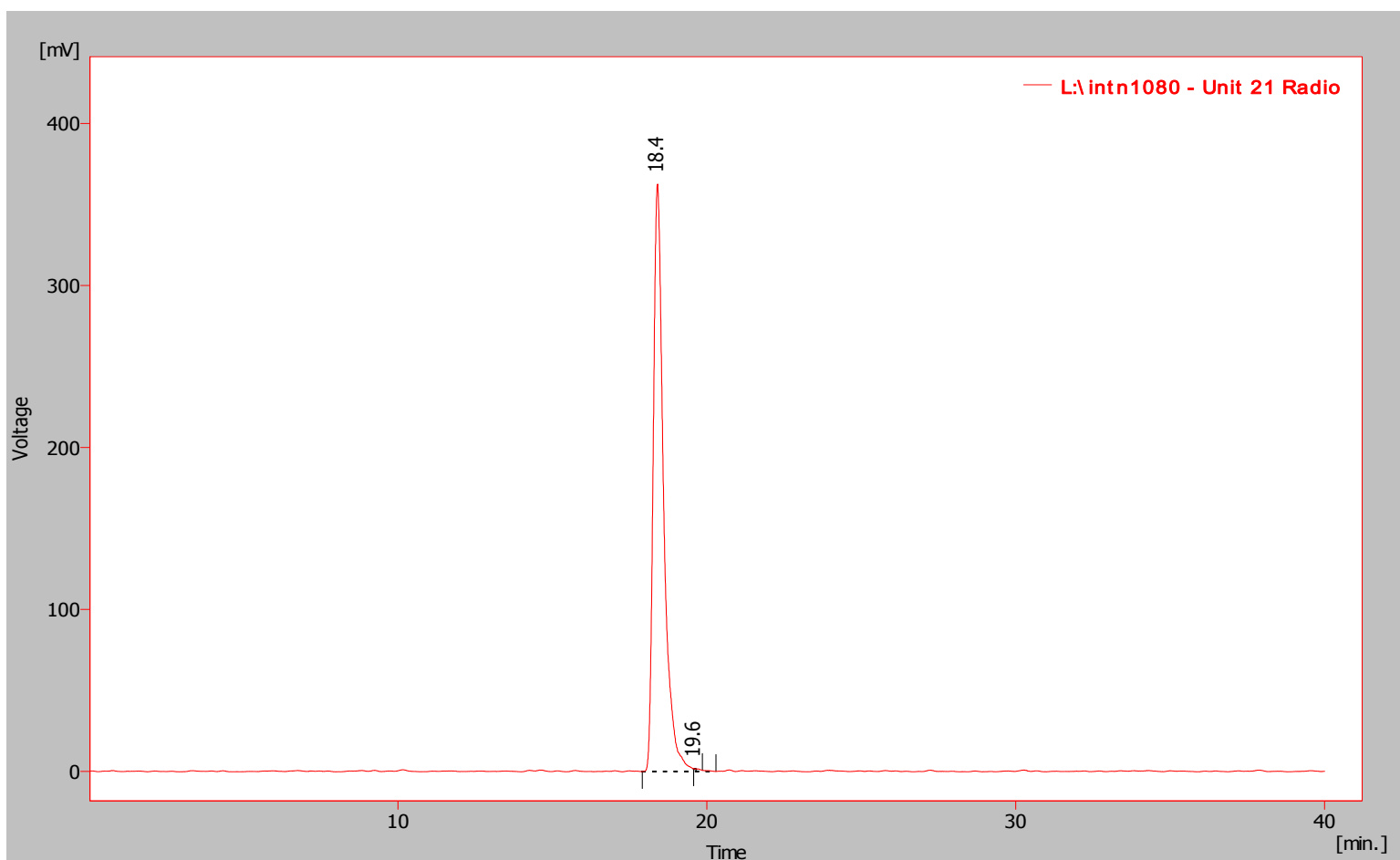
	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		11.837	9.039	1674.401	42.251	3.696	27942.876
2		13.300	0.187	34.585	4.998	0.437	86130.229
3		15.650	0.611	113.232	13.192	1.154	84569.500
4		16.210	0.983	182.140	15.852	1.387	95700.643
5		17.567	86.359	15996.927	1020.248	89.250	25950.728
6		19.310	1.676	310.394	36.189	3.166	128750.709
7		30.940	0.681	126.193	5.955	0.521	112970.794
8		31.407	0.122	22.536	1.863	0.163	146197.511
9		31.847	0.342	63.308	2.584	0.226	150322.591
		Total	100.000	18523.716	1143.132	100.000	



**MC-364**  
**Arachidonic acid, [1-14C]-**  
**Lot 167-081-0543-A-20090330-NT**

Chromatogram Info:

File Name	: L:\intn1080	File Created	: 10/24/2013 1:50:21 PM
Origin	: Acquired, Acquisition started 4/2/2009 11:16:54 AM	Acquired Date	: 4/2/2009 11:56:53 AM
Project	: Test	By	: Administrator
Method	: Unit21_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard	Modified	: 10/24/2013 2:02 PM
Created	: 4/17/2008 10:27 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



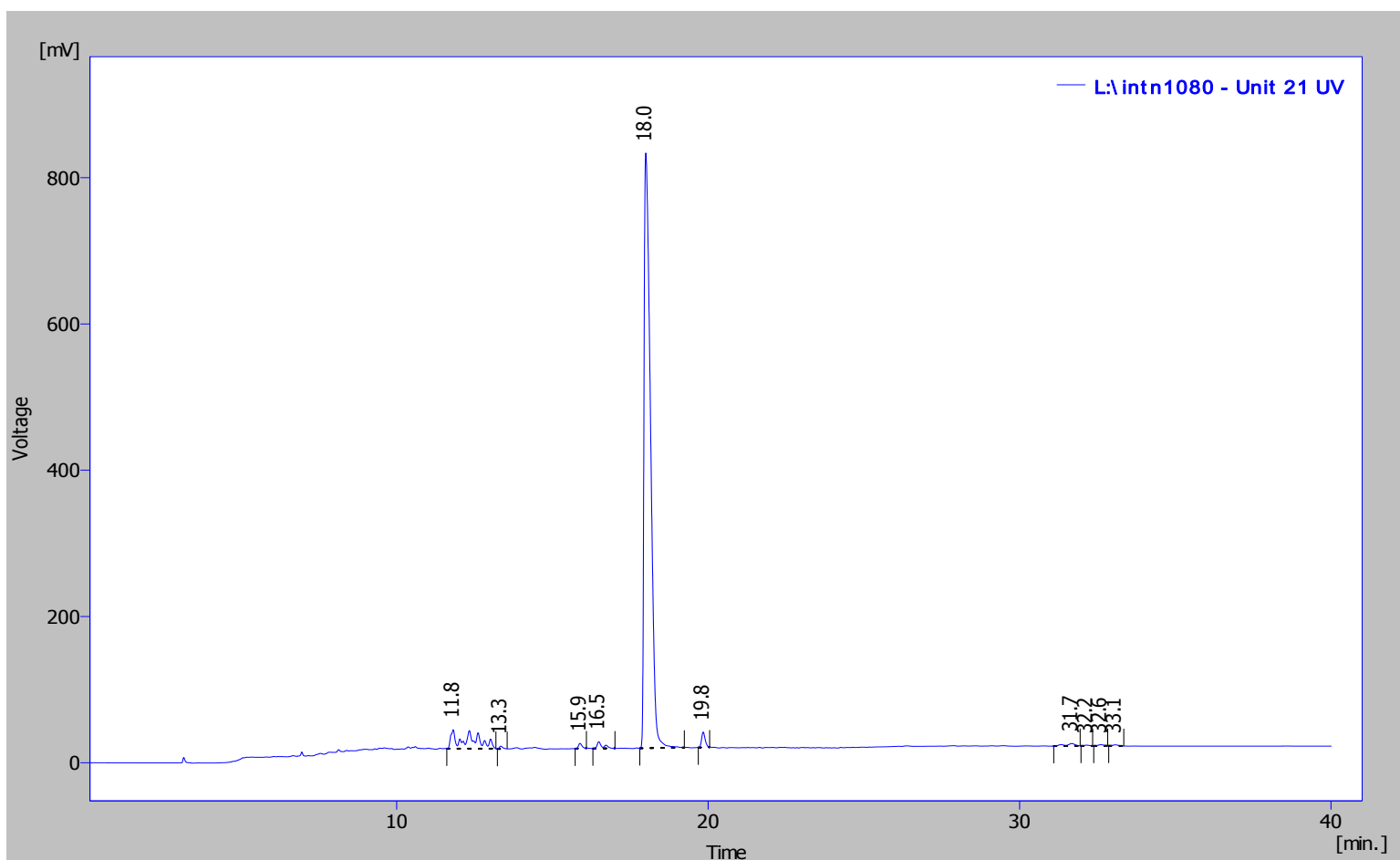
Result Table (Uncal - L:\intn1080 - Unit 21 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		18.410	99.949	8503.141	362.737	99.961	16565.979
2		19.597	0.051	4.324	0.140	0.039	1914770.311
		Total	100.000	8507.465	362.878	100.000	

**MC-364**  
**Arachidonic acid, [1-14C]-**  
**Lot 167-081-0543-A-20090330-NT**

Chromatogram Info:

File Name	: L:\intn1080	File Created	: 10/24/2013 1:50:21 PM
Origin	: Acquired, Acquisition started 4/2/2009 11:16:54 AM	Acquired Date	: 4/2/2009 11:56:53 AM
Project	: Test	By	: Administrator
Method	: Unit21_40_min_run	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 10/24/2013 2:03 PM
Created	: 4/17/2008 10:27 AM		
Column	:	Detection	: UV 208nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	: The impurities came from standard material.		



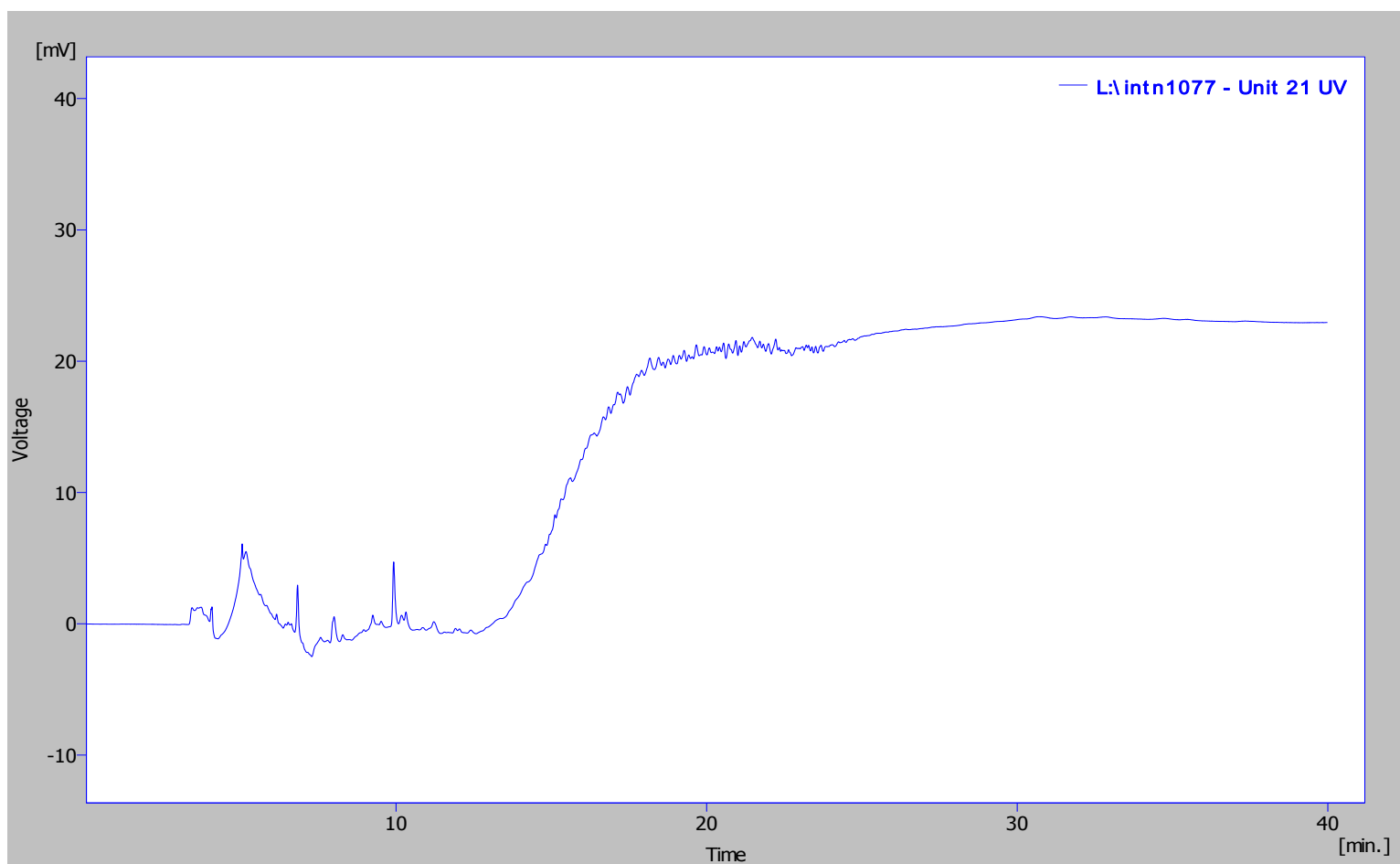
Result Table (Uncal - L:\intn1080 - Unit 21 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		11.817	7.504	988.919	25.906	2.917	28996.801
2		13.343	0.209	27.562	3.765	0.424	72467.763
3		15.887	0.409	53.840	7.005	0.789	97098.571
4		16.490	0.843	111.152	9.277	1.045	99035.326
5		18.000	88.871	11711.897	813.926	91.644	32968.653
6		19.843	1.271	167.458	21.092	2.375	143409.553
7		31.677	0.526	69.282	3.273	0.369	118414.398
8		32.153	0.082	10.868	0.973	0.110	164372.146
9		32.607	0.145	19.064	1.533	0.173	137905.537
10		33.073	0.140	18.469	1.392	0.157	133152.174
		Total	100.000	13178.511	888.142	100.000	

**MC-364**  
**Arachidonic acid, [1-14C]-**  
**Lot 167-081-0543-A-20090330-NT**

## Chromatogram Info:

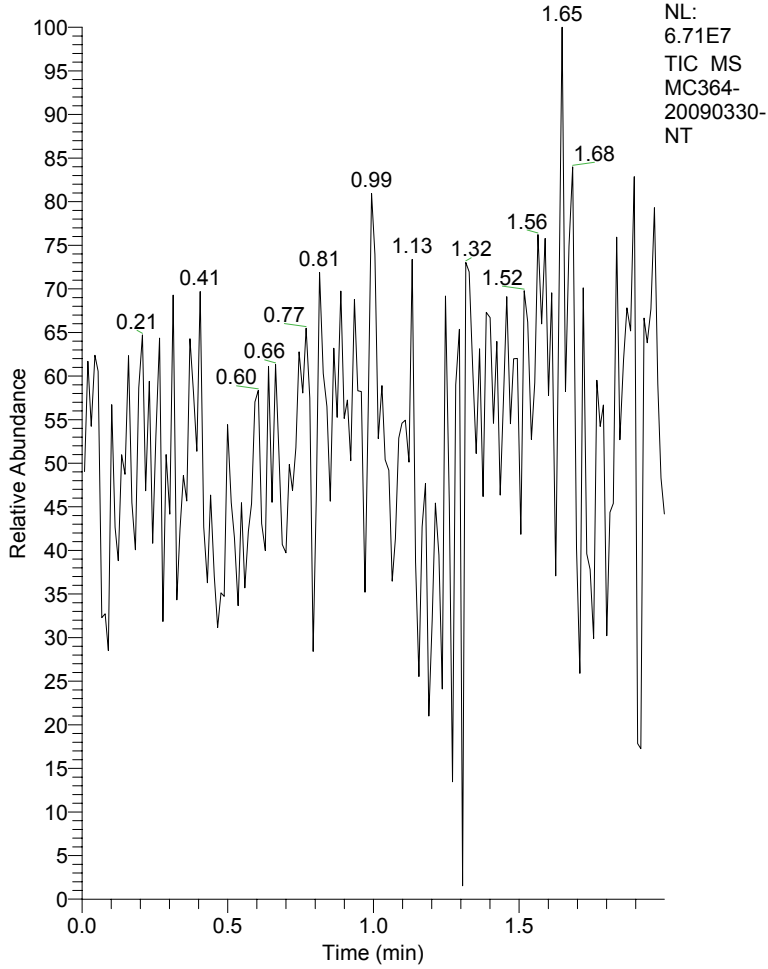
File Name	: L:\intn1077	File Created	: 10/24/2013 1:50:21 PM
Origin	: Acquired, Acquisition started 4/2/2009 8:03:14 AM	Acquired Date	: 4/2/2009 8:43:13 AM
Project	: Test	By	: Administrator
Method	: Unit21_40_min_run	By	: Administrator
Description	: UV trace of blank injection	Modified	: 10/24/2013 2:09 PM
Created	: 4/17/2008 10:27 AM		
Column	:	Detection	: UV 208nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



*Result Table (Uncal - L:\intn1077 - 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:  
6.71E7  
TIC MS  
MC364-  
20090330-  
NT

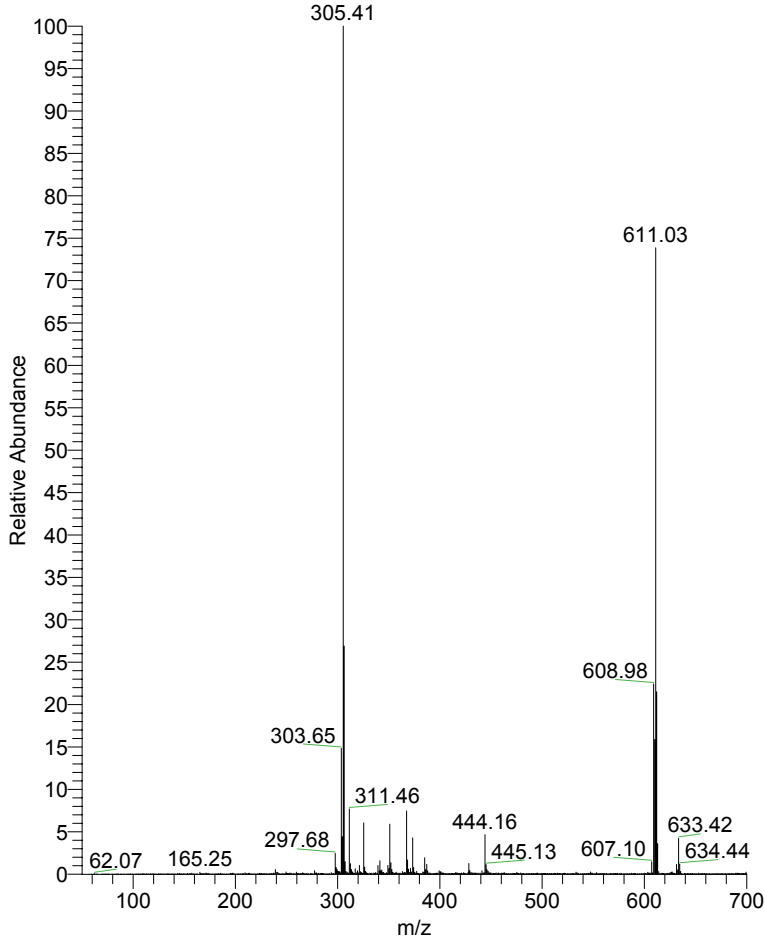
MC364-20090330-NT#1-171 RT: 0.01-2.00 AV:

T: - c NSI Full ms [50.00-700.00]

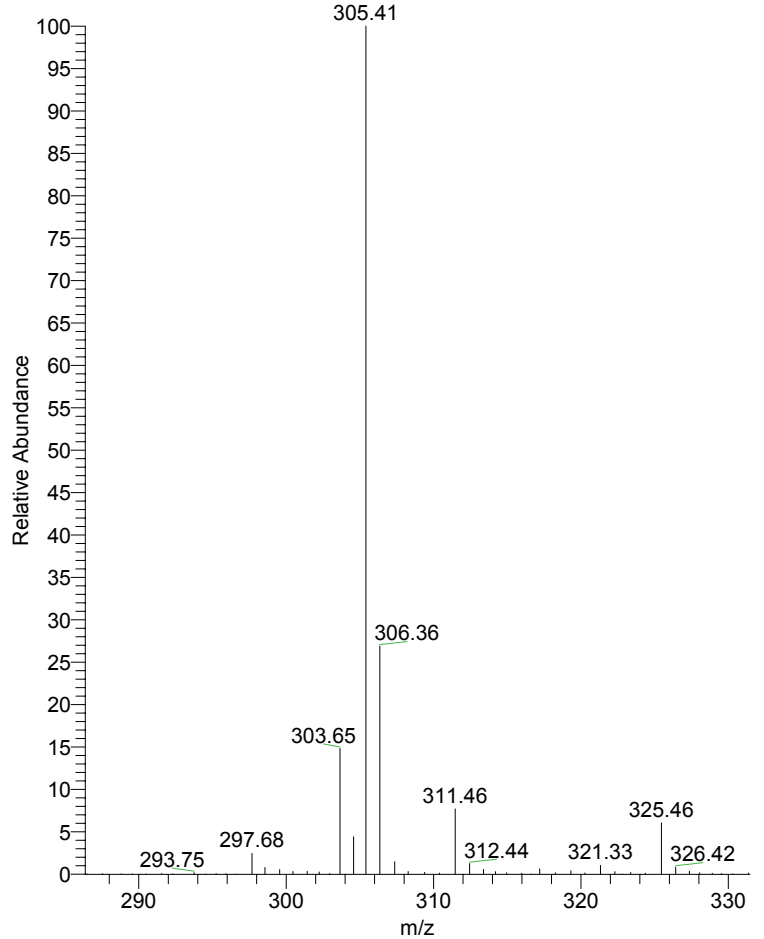
m/z = 301.58-310.10

m/z	Intensity	Relative
302.24	22612.1	0.26
302.96	6211.7	0.07
303.65	1290989.9	14.83
304.58	383322.6	4.40
305.41	8706491.0	100.00
306.36	2342029.8	26.90
307.37	127130.5	1.46
308.28	26592.8	0.31
309.39	19504.3	0.22

MC364-20090330-NT #1-171 RT: 0.01-2.00 AV: 171 NL: 8.71E6  
T: - c NSI Full ms [50.00-700.00]



MC364-20090330-NT #1-171 RT: 0.01-2.00 AV: 171 NL: 8.71E6  
T: - c NSI Full ms [50.00-700.00]



MT364 1H NMR in MeOD  
Batch 20090330-NT



**BRUKER**

5.461  
5.449  
5.445  
5.442  
5.426  
5.418  
5.414  
5.406  
5.399  
5.387  
5.377  
5.374  
5.372  
5.366  
5.358  
5.356  
5.354  
5.347  
5.344  
5.330  
5.323  
5.308  
2.918  
2.885  
2.867  
2.850  
2.839  
2.837  
2.821  
2.801  
2.337  
2.312  
2.288  
2.184  
2.163  
2.140  
2.124  
2.117  
2.103  
2.060  
2.060  
1.733  
1.708  
1.683  
1.659  
1.635  
1.437  
1.412  
1.412  
1.404  
1.389

Current Data Parameters  
NAME MC364-20090330-NT  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20090512  
Time 11.38  
INSTRUM spect  
PROBHD 5 mm DUX 3H-1H  
PULPROG zg30  
TD 65536  
SOLVENT MeOD  
NS 436  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.094190 Hz  
AQ 5.3084660 sec  
RG 362  
DW 81.000 usec  
DE 6.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

==== CHANNEL f1 =====  
NUC1 1H  
P1 10.25 usec  
PL1 0.00 dB  
SFO1 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00

