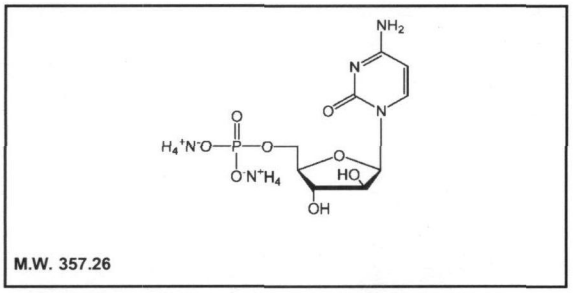
Product Data Sheet

M-1145

Cytosine-ß-D-arabinofuranoside 5'-monophosphate, diammonium salt

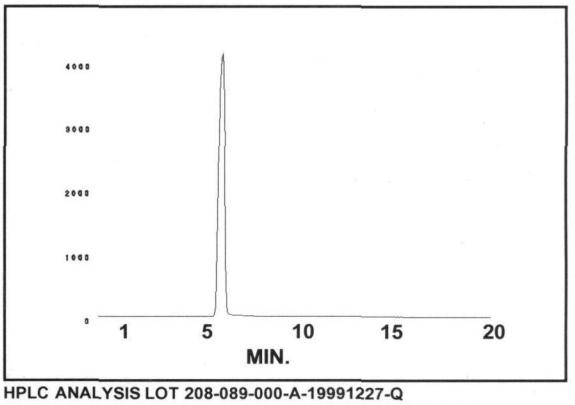


Lot #: 208-089-000-A-19991227-Q

Packaged as: Solid

Date of Analysis: January 22, 2013

Chemical Purity @ 279nm: 99.9%



HPLC ANALYSIS LOT 208-089-000-A-19991227-Q
File Name: int52691 Date and Time: 1/22/2013 9:38:29 AM
Unit 5 UV

Peak #	Area %	Time	Area
1	0.02	3.67330	1.32036
2	0.01	4.68670	0.60016
3	99.93	6.38670	8600.82591
4	0.05	7.13330	3.90875
Totals	100.00		8606.65518

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.

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M-1145

Cytosine ß-D-arabinofuranoside 5'-monophosphate, diammonium salt

Lot 208-089-000-A-19991227-Q

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

Concentrations and volumes:

Cytosine ß-D-arabinofuranoside 5'-monophosphate, diammonium salt concentration was 1.0 mg/ml.

Volume of **Cytosine ß-D-arabinofuranoside 5'-monophosphate, diammonium salt** injection was 2.0 µl.

Volume of blank injection was 2.0 µl.

B) Mass spectrometry – Positive Mode

C) NMR

D) UV Spectrum

M-1145

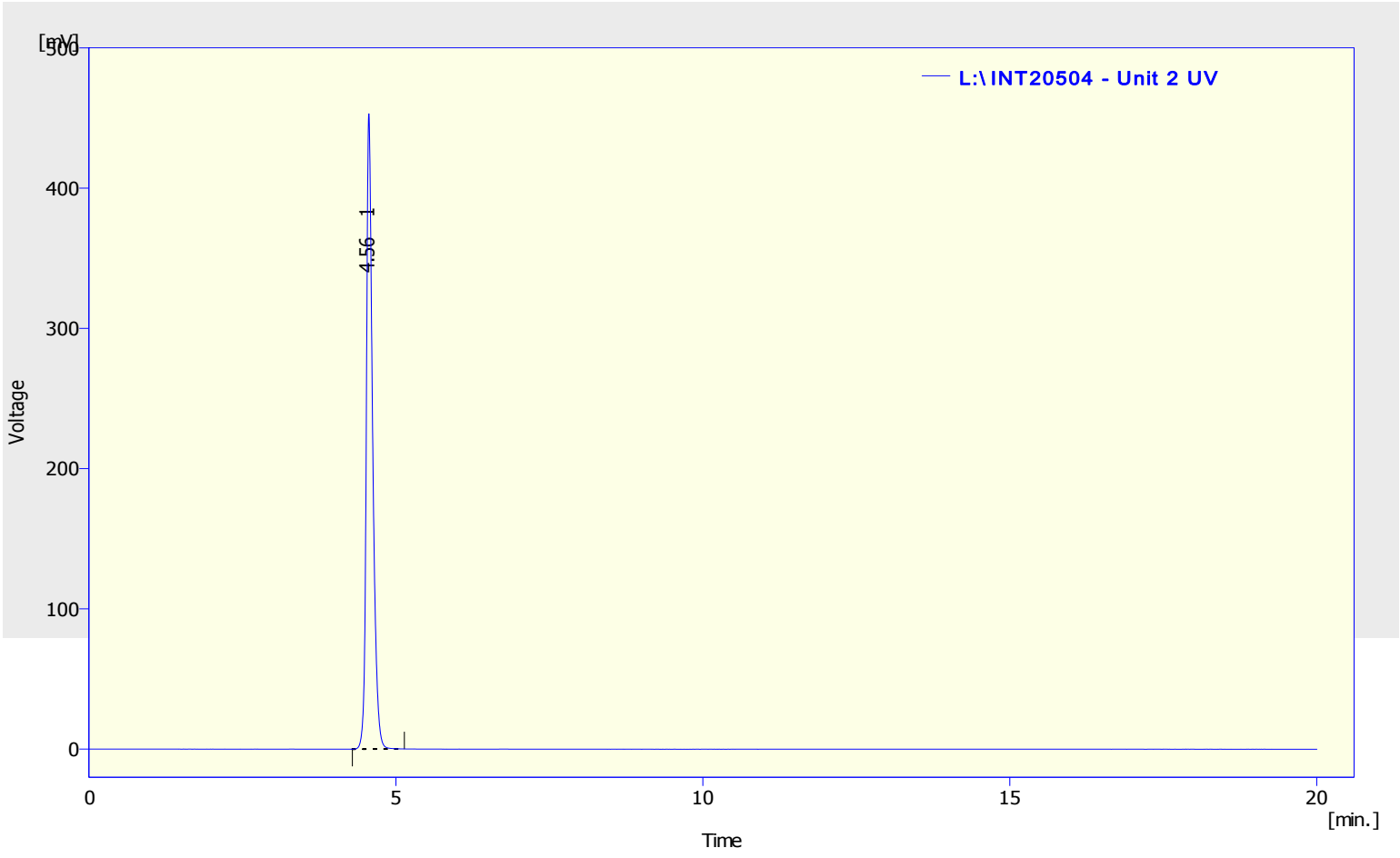
Cytosine ß-D-arabinofuranoside 5'-monophosphate, diammonium salt

Lot 208-089-000-A-19991227-Q

Chromatogram Info:

File Name	: L:\INT20504	File Created	: 4/29/2010 11:54:00 AM
Origin	: Acquired	Acquired Date	: 4/29/2010 11:53:29 AM
Project	: Test	By	: Administrator

Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of Cytosine ß-D-arabinofuranoside 5'-monophosphate, diammonium salt		
Created	: 8/8/2007 9:12 AM	Modified	: 5/4/2010 10:56 AM
Column	:	Detection	: 279nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\INT20504 - Unit 2 UV)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	4.560	3223.642	453.025	100.00	100.0	0.11
	Total	3223.642	453.025	100.00	100.0	

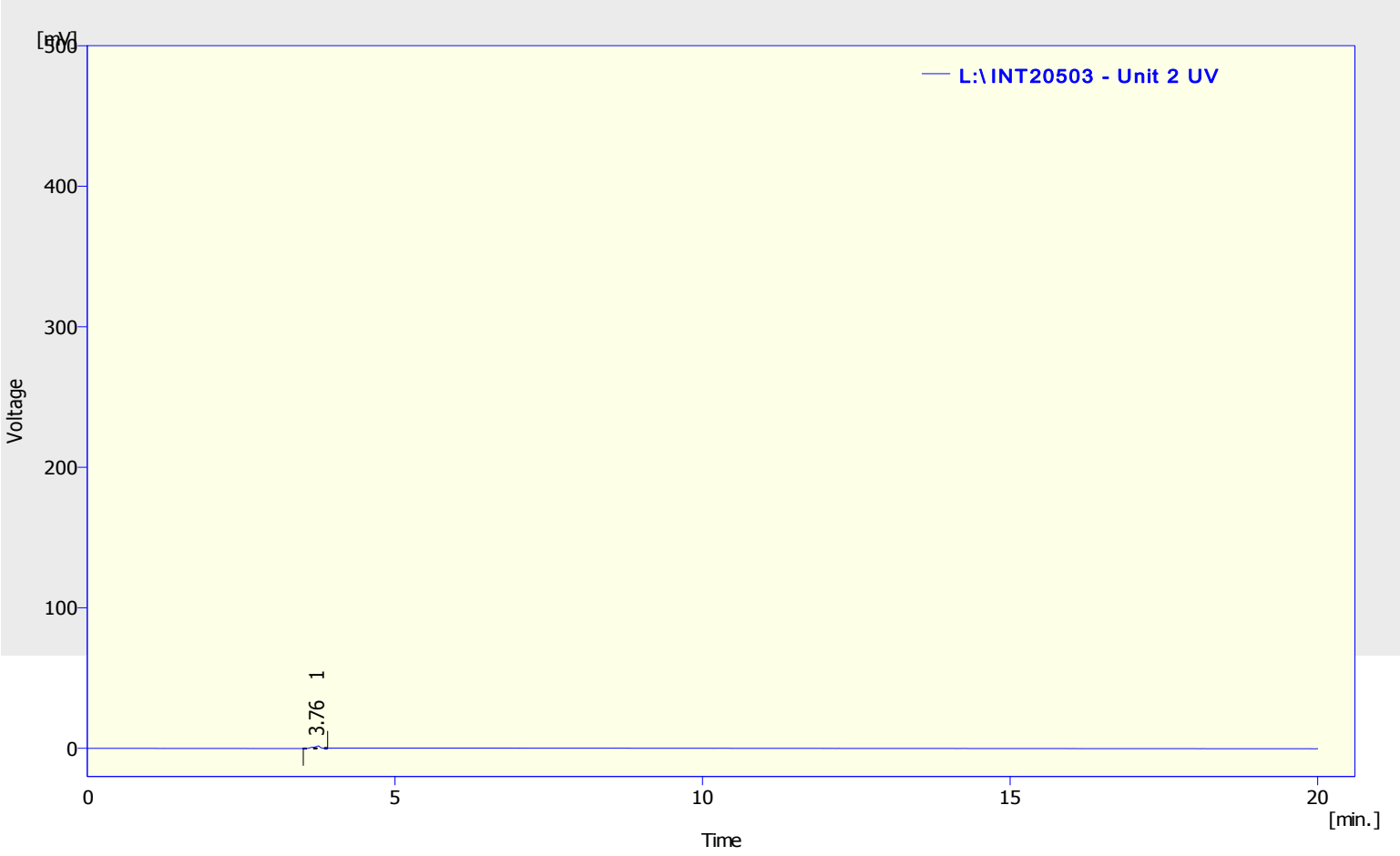
M-1145

Cytosine ß-D-arabinofuranoside 5'-monophosphate, diammonium salt

Lot 208-089-000-A-19991227-Q

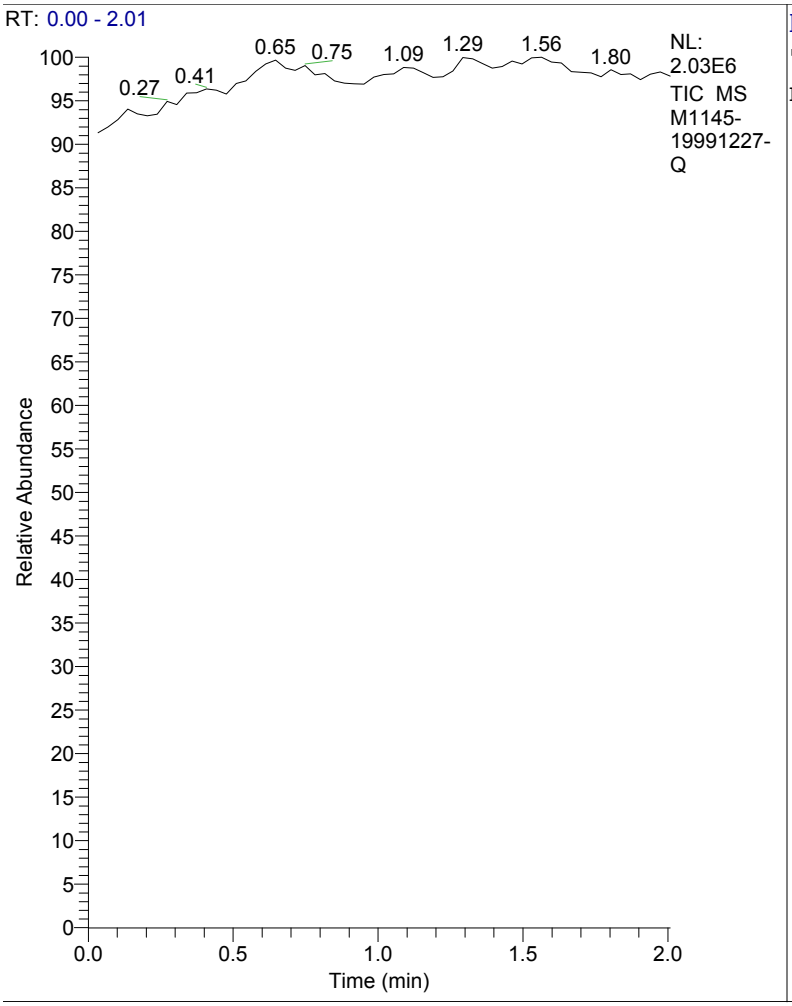
Chromatogram Info:

File Name	: L:\INT20503	File Created	: 4/29/2010 11:23:44 AM
Origin	: Acquired	Acquired Date	: 4/29/2010 11:23:17 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection		
Created	: 8/8/2007 9:12 AM	Modified	: 5/4/2010 11:16 AM
Column	:	Detection	: 279nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\INT20503 - Unit 2 UV)

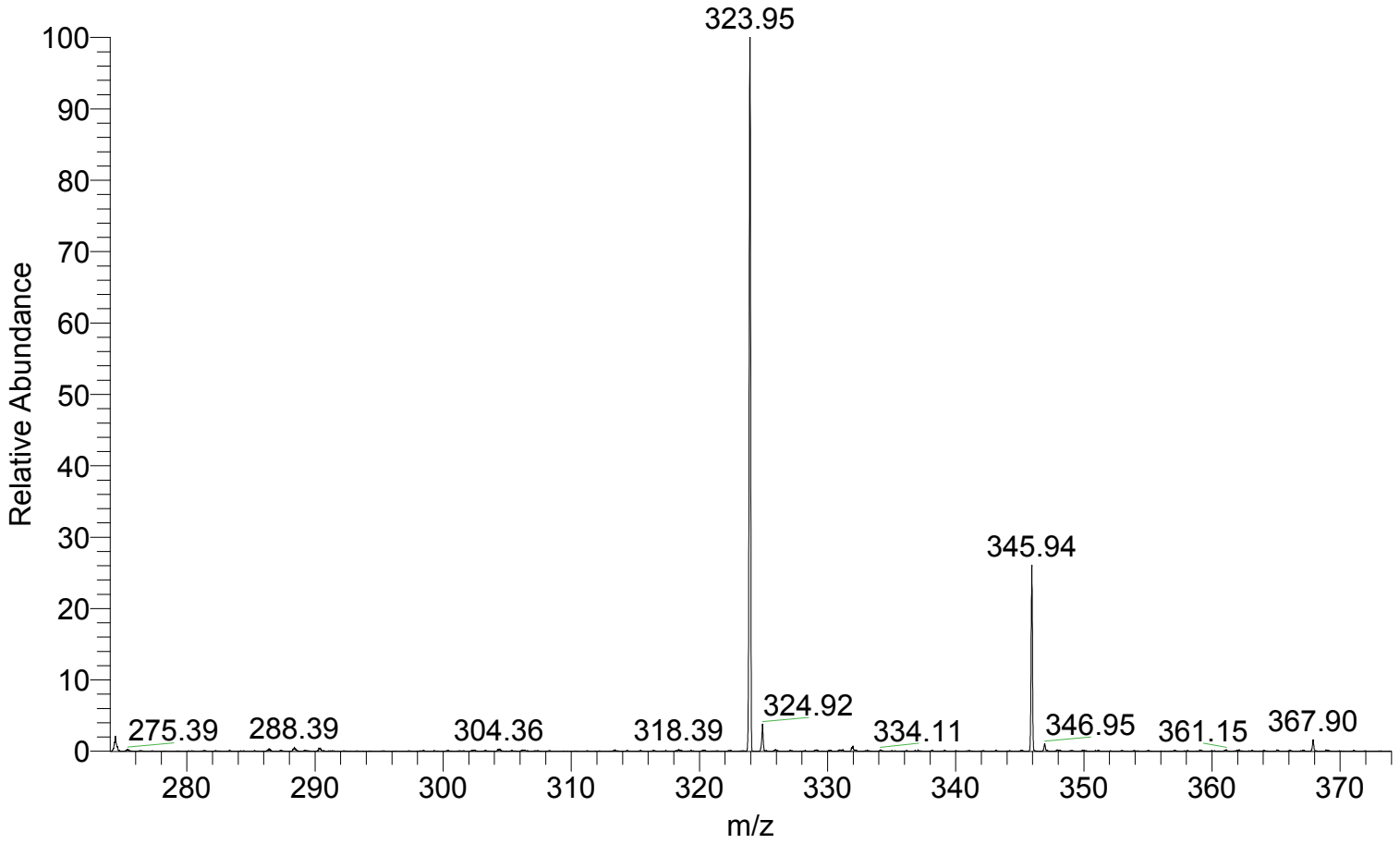
	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	3.757	11.721	1.678	100.00	100.0	0.09
	Total	11.721	1.678	100.00	100.0	



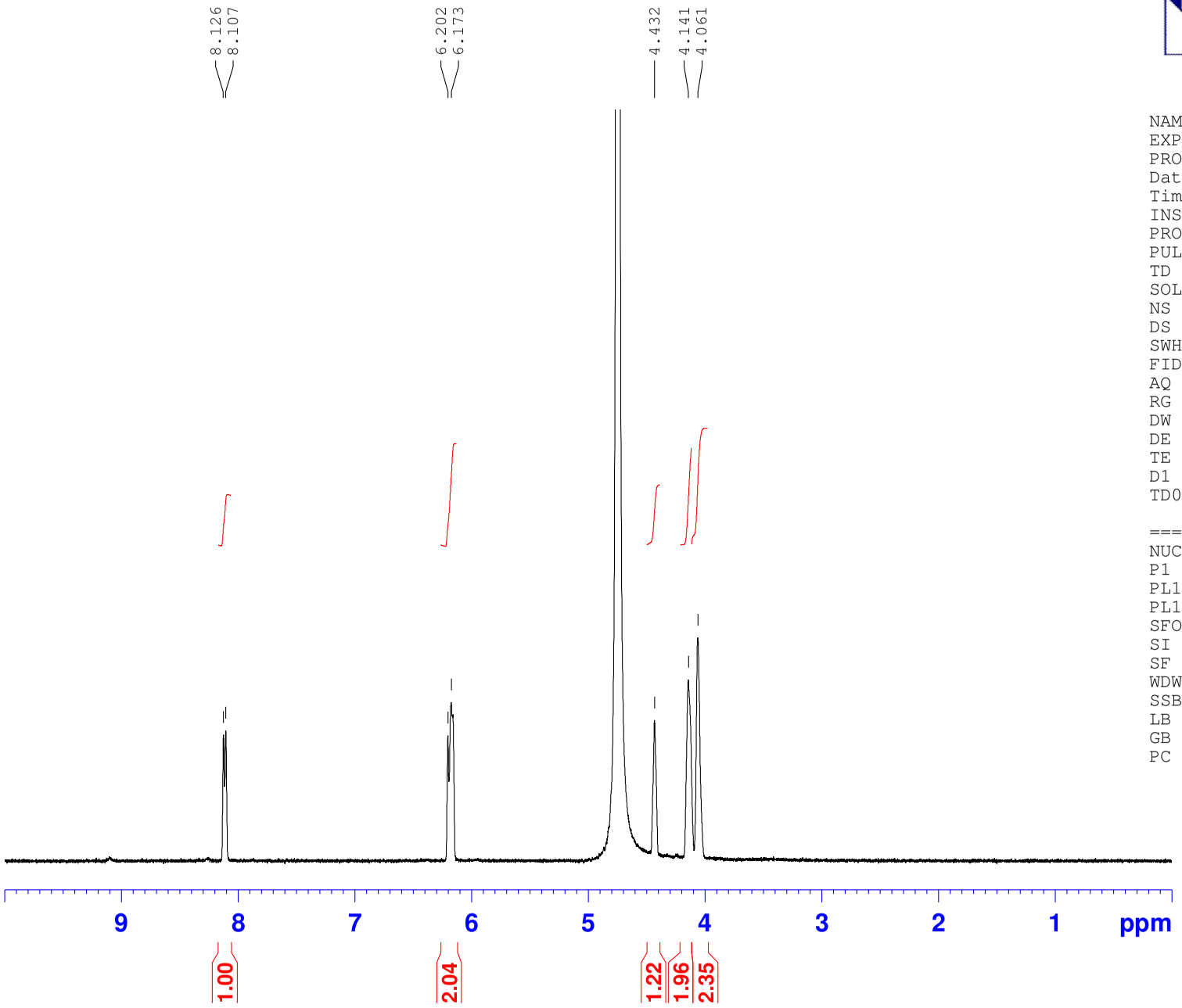
M1145-19991227-Q#1-59 RT: 0.03-2.01 AV:
T: + p NSI Z ms [274.00-374.00]
m/z= 318.17-339.03

m/z	Intensity	Relative
321.26	2015.2	0.16
322.37	3245.8	0.26
323.93	1260766.1	100.00
324.92	47540.3	3.77
325.96	4603.4	0.37
327.08	2926.6	0.23
328.16	2165.6	0.17
329.12	4618.8	0.37
330.13	3322.5	0.26
331.06	6067.3	0.48
332.00	13501.3	1.07
333.09	3296.3	0.26
334.14	3445.1	0.27
335.10	1759.5	0.14
336.10	2228.6	0.18
337.03	3108.3	0.25
338.14	2515.3	0.20

M1145-19991227-Q #1-59 RT: 0.03-2.01 AV: 59 NL: 4.77E4
T: + p NSI Z ms [274.00-374.00]



M1145 1H NMR in D2O
Batch 19991227-Q



NAME	M1145-19991227-Q	
EXPNO	1	
PROCNO	1	
Date_	20100324	
Time	12.48	
INSTRUM	spect	
PROBHD	5 mm PABBO BB-	
PULPROG	zg30	
TD	65536	
SOLVENT	D2O	
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	294.4	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	

10/Dec/;0 09:42:37

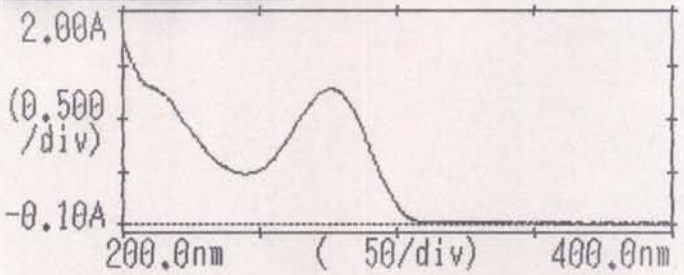
Peak detection

Abscis.	ABS	Abscis.	ABS
276.5	1.270		

Graph | PrintOut | | Valley

10/Dec/;0 09:43:04

Data Processing



1.CH operation 2.Derivative 3.Peak
4.Area calc. 5.Point pick

Input item No.

Chg Disp | CallCurv | Restore |