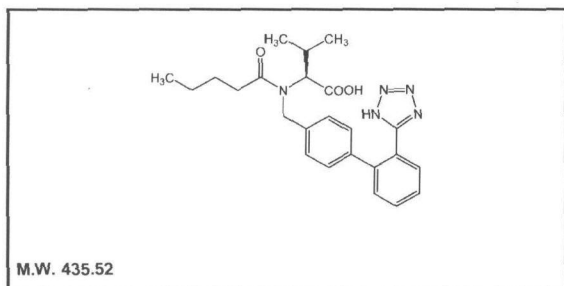




# Product Data Sheet

**M-1901**

**Valsartan**

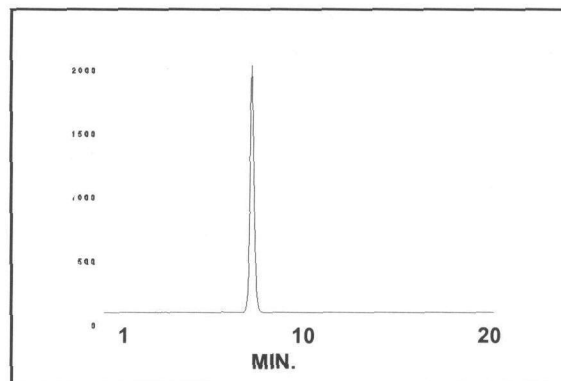


**Lot #:** 208-301-000-A-20100923-RT

**Packaged as:** Solid

**Date of Analysis:** November 29, 2010

**Chemical Purity @ 230nm:** 99.7%



HPLC ANALYSIS LOT 208-301-000-A-20100923-RT  
File Name: int20800 Date and Time: 11/29/2010 1:32:23 P  
Unit 2 UV

Peak #	Area %	Time	Area
1	0.05	4.95000	1.39711
2	0.20	6.09000	5.65161
3	99.71	7.63330	2877.63283
4	0.05	9.67330	1.36694
Totals	100.00		2886.04849

**Storage Recommendation:** Store at 0-5°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.

**M-1901**

**Valsartan**

**Lot 208-301-000-A-20100923-RT**

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

**Concentrations and volumes:**

**Valsartan** concentration was 0.55 mg/ml.

Volume of **Valsartan** injection was 2.0 µl.

Volume of blank injection was 2.0 µl.

**B) Mass spectrometry – Positive mode**

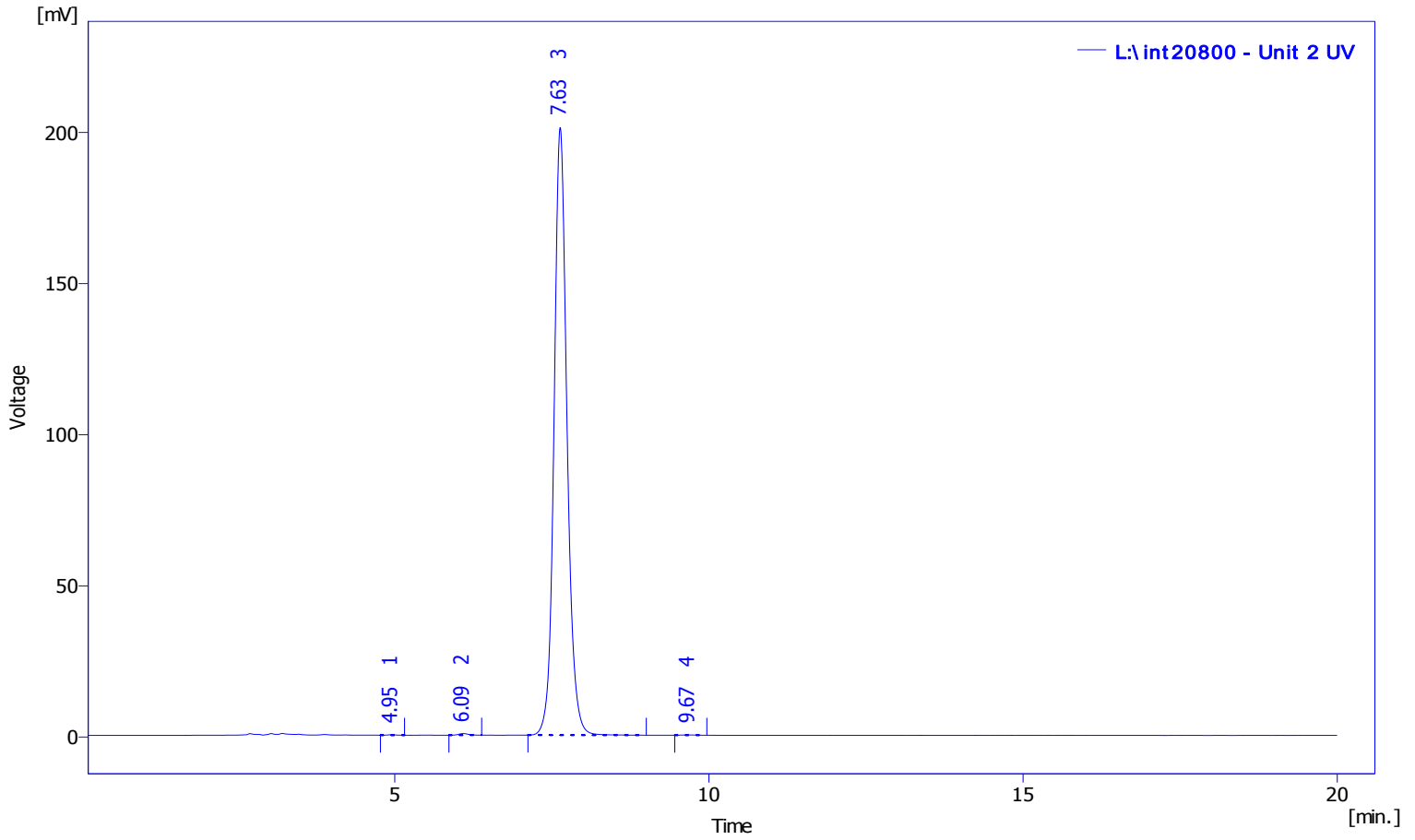
**C) NMR**

**D) UV spectrum**

**M-1901**  
**Valsartan**  
**Lot 208-301-000-A-20100923-RT**

Chromatogram Info:

File Name	: L:\int20800	File Created	: 2/5/2014 1:56:08 PM
Origin	: Acquired, Acquisition started 11/29/2010 1:12:23 PM	Acquired Date	: 11/29/2010 1:32:23 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of Valsartan	Modified	: 2/5/2014 2:04 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 230nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



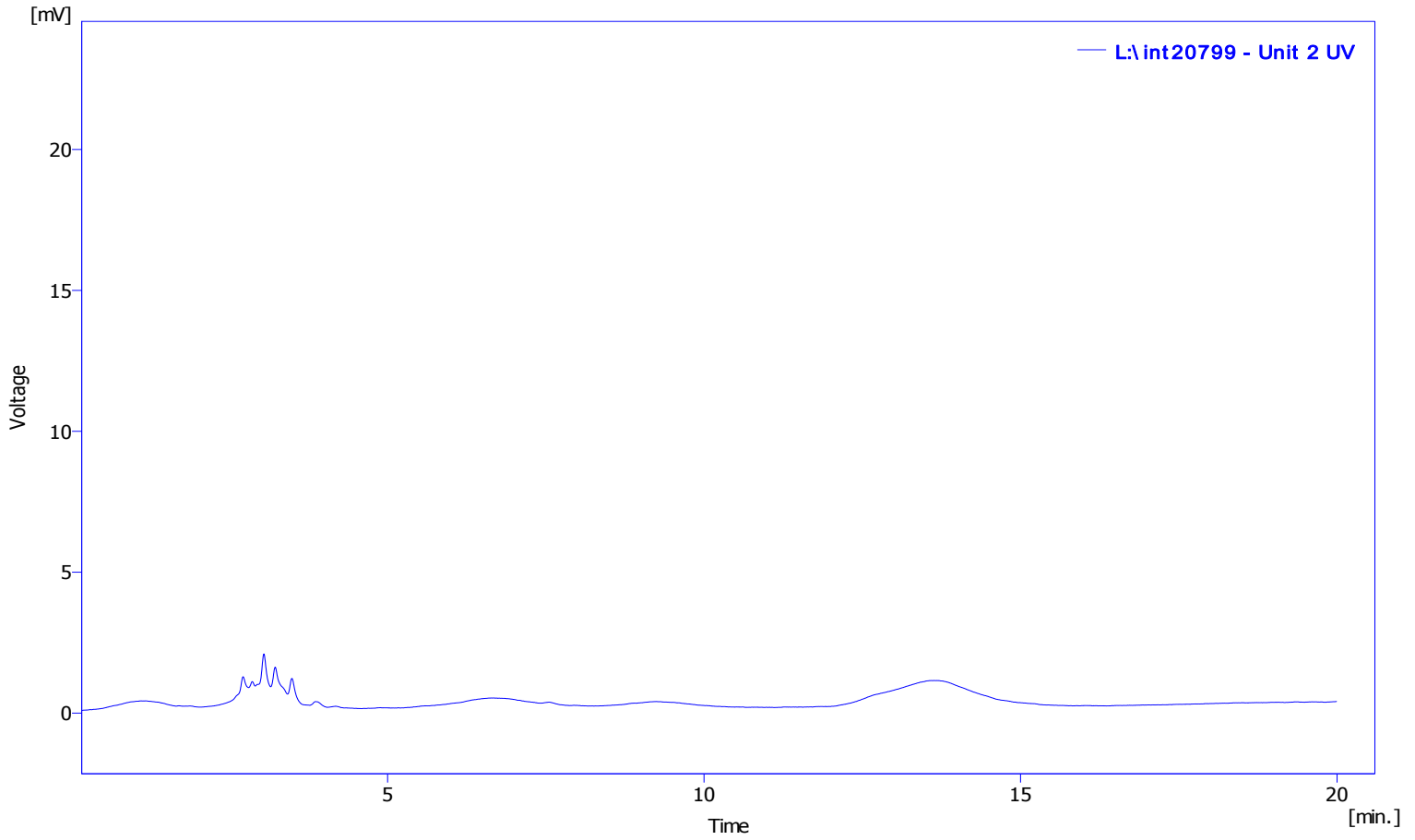
Result Table (Uncal - L:\int20800 - Unit 2 UV)

	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		4.95	1.397	0.15	0.05	0.08	6925.71	138514.13	1.08		
2		6.09	5.652	0.54	0.20	0.27	8026.10	160521.93	1.10		4.5
3		7.63	2877.633	201.05	99.71	99.61	6876.29	137525.75	1.11		4.8
4		9.67	1.367	0.09	0.05	0.05	9255.24	185104.88	1.13		5.3
		Total	2886.048	201.83	100.00	100.00					

**M-1901**  
**Valsartan**  
**Lot 208-301-000-A-20100923-RT**

Chromatogram Info:

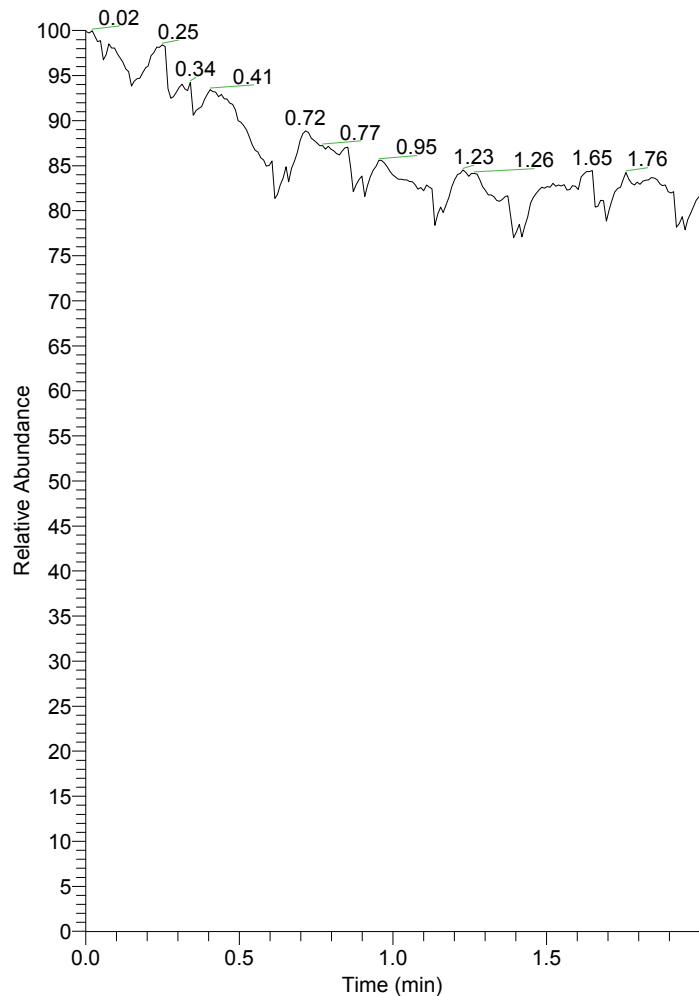
File Name	: L:\int20799	File Created	: 2/5/2014 1:56:08 PM
Origin	: Acquired, Acquisition started 11/29/2010 11:47:51 AM	Acquired Date	: 11/29/2010 12:07:50 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 2/5/2014 2:03 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 230nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



*Result Table (Uncal - L:\int20799 - 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 - 2.00



NL:  
1.11E8  
TIC F: MS  
M1901-  
20100923-  
RT

M1901-20100923-RT#1-219 RT: 0.00-2.00 AV:

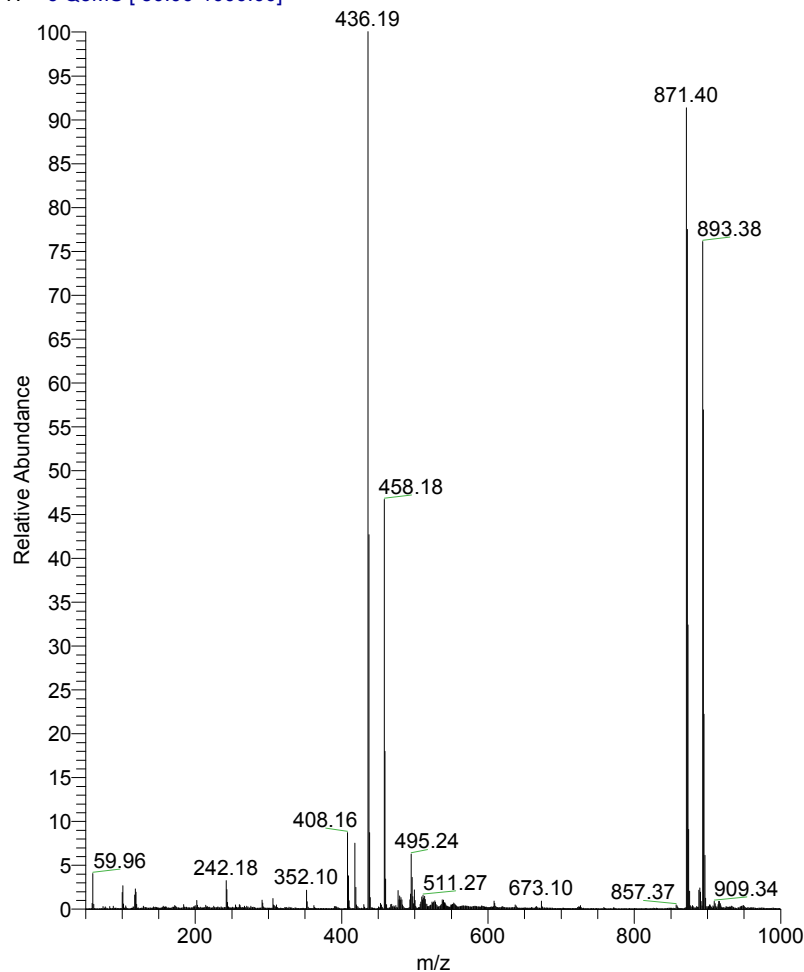
T: + c Q3MS [ 50.00-1000.00]

m/z = 431.38-450.42

m/z	Intensity	Relative
432.19	8727.8	0.07
433.22	6424.0	0.06
434.21	8210.9	0.07
435.54	11027.2	0.09
436.19	11651144.7	100.00
437.19	4971050.7	42.67
438.20	1013484.5	8.70
439.21	151895.7	1.30
440.23	20338.9	0.17
441.26	5362.0	0.05
442.22	12898.7	0.11
443.26	7014.9	0.06
444.20	11845.8	0.10
445.17	6409.8	0.06
446.21	3645.6	0.03
447.16	2065.2	0.02
448.26	1839.6	0.02
449.22	6818.4	0.06
450.22	29053.4	0.25

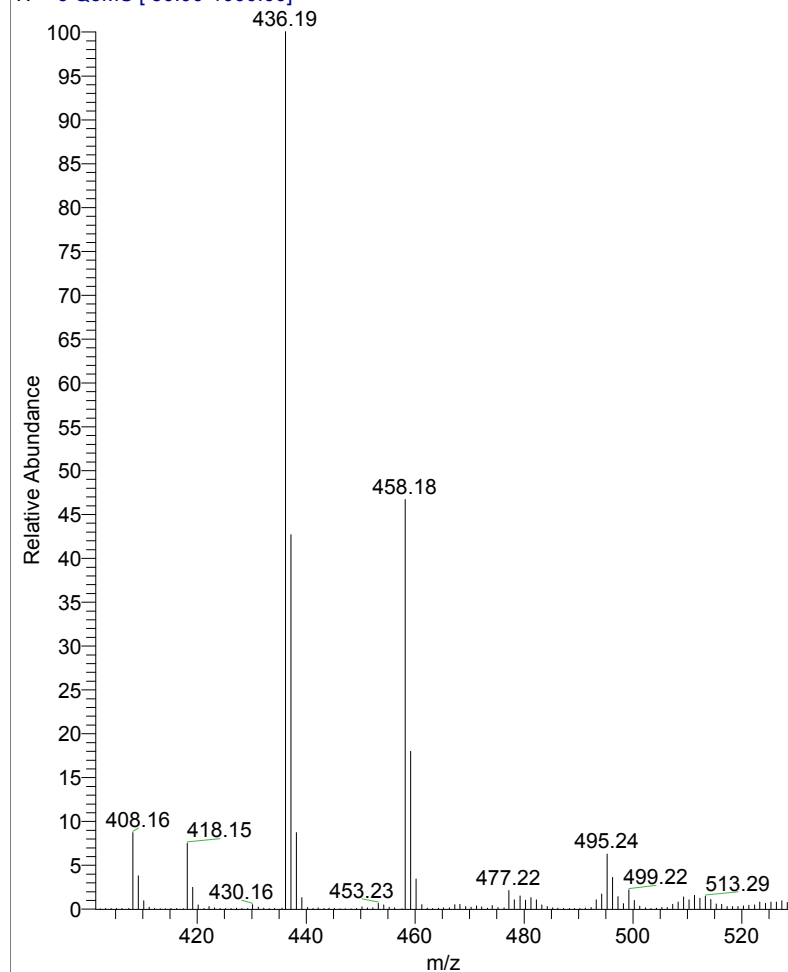
M1901-20100923-RT #1-219 RT: 0.00-2.00 AV: 219 NL: 1.17E7

T: + c Q3MS [ 50.00-1000.00]



M1901-20100923-RT #1-219 RT: 0.00-2.00 AV: 219 NL: 1.17E7

T: + c Q3MS [ 50.00-1000.00]



M1901 1H NMR in MeOD  
Batch 20100923-RT

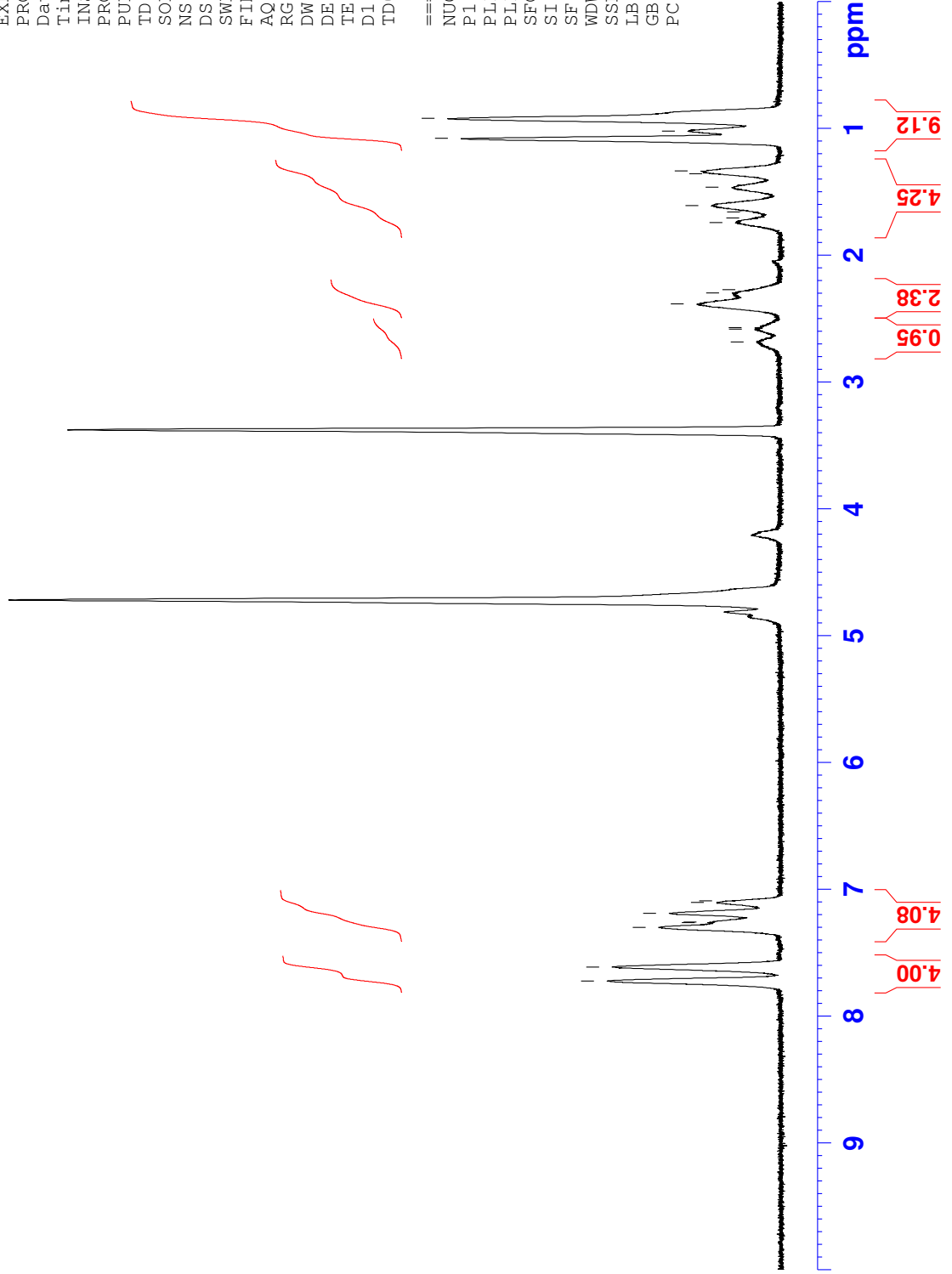


7.724  
7.614  
7.301  
7.263  
7.259  
7.190  
7.104  
7.091

2.684  
2.583  
2.571  
2.384  
2.298  
2.272  
1.743  
1.707  
1.659  
1.609  
1.464  
1.358  
1.336  
1.078  
1.022  
0.921

NAME M1901-20100923-RT  
EXPNO 1  
PROCNO 1  
Date\_ 20101129  
Time 10.18  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30  
TD 65536  
SOLVENT MeOD  
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 310.0 K  
D1 1.00000000 sec  
TD0 1

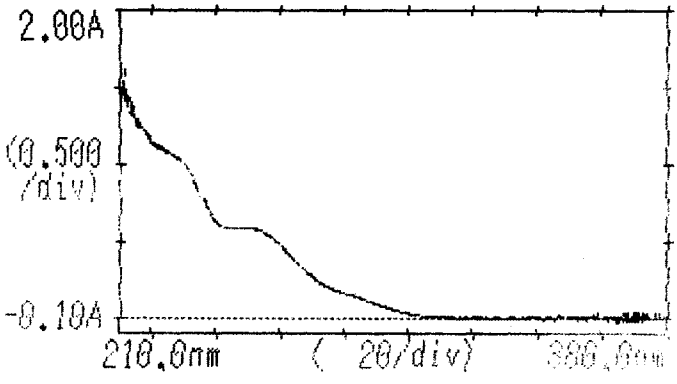
==== CHANNEL f1 =====  
NUC1 1H  
P1 14.50 usec  
PL1 -0.70 dB  
PL1W 10.03411102 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1299802 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00





19/Mar/;0 13:00:37

**Data Processing**



**PrintOut** **Peak** **Valley**

19/Mar/;0 13:00:37

**Peak detection**

Abciss.	ABS	Abciss.	ABS
211.9	1.591		

**Graph** **PrintOut** **Peak** **Valley**