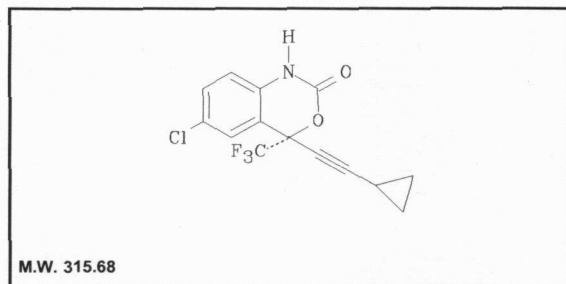




Product Data Sheet

M-1821

Efavirenz

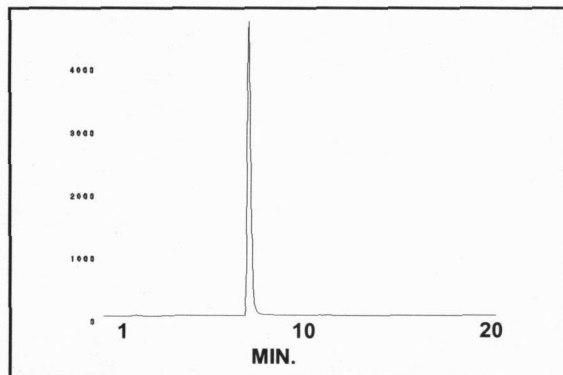


Lot #: 308-004-000-A-20110929-RTO

Packaged as: Solid

Date of Analysis: July 26, 2013

Chemical Purity @ 246nm: 99.8%



HPLC ANALYSIS LOT 308-004-000-A-20110929-RTO
File Name: intX1031 Date and Time: 7/26/2013 4:32:11 PM
Unit X UV

Peak #	Area %	Time	Area
1	99.84	7.45000	6107.18840
2	0.03	8.47000	1.95277
3	0.04	9.62670	2.24501
4	0.09	10.67670	5.47588
Totals	100.00		6116.86206

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-1821

Efavirenz

Lot 308-004-000-A-20110929-RTO

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

Concentrations and volumes:

Efavirenz solution concentration was 1 ~~µ~~ mg/ml.

Volume of **Efavirenz** injection was 1 ~~µ~~ µl.

Volume of blank injection was 1 ~~µ~~ µl.

B) Mass spectrometry – Negative mode

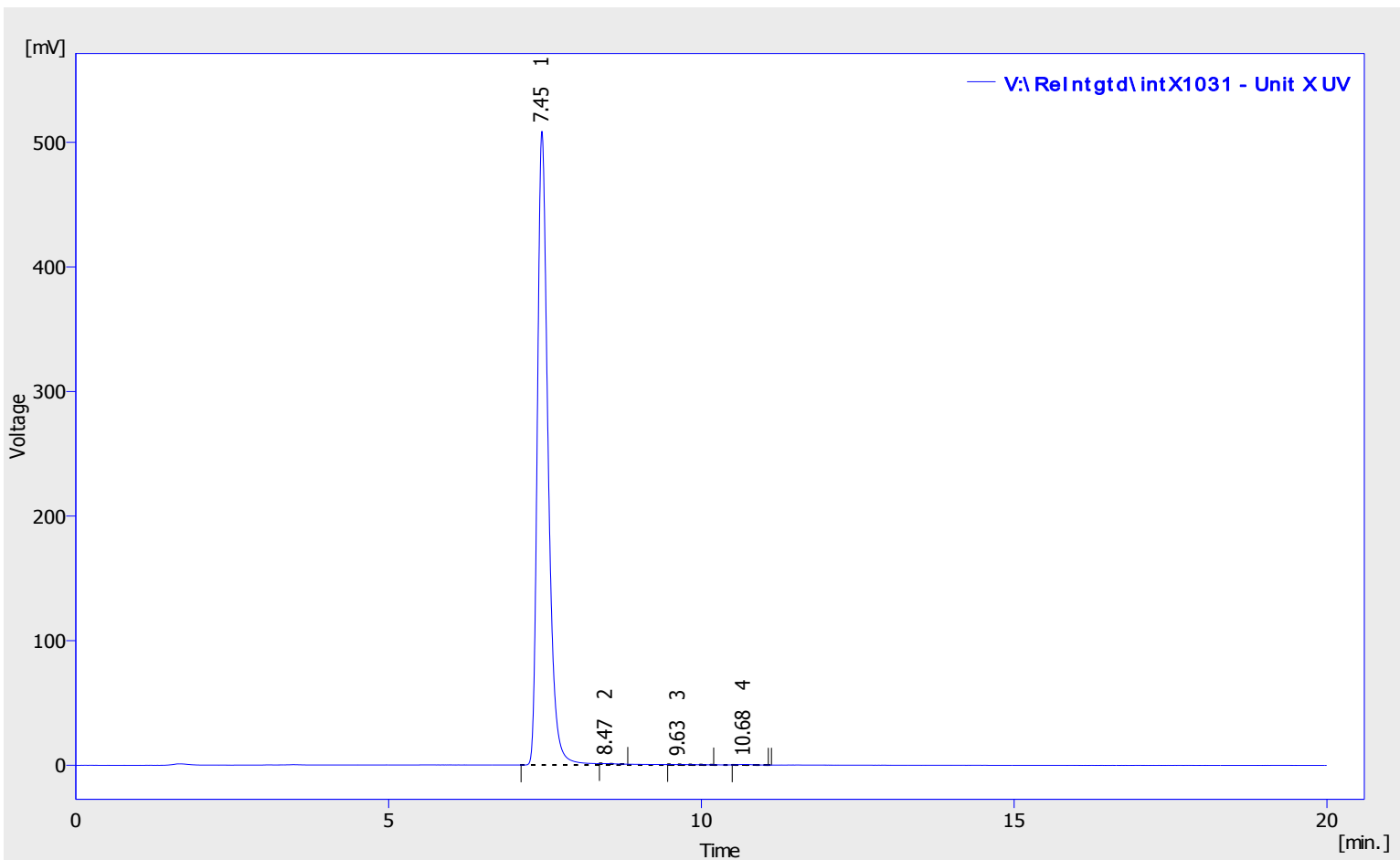
C) NMR

D) UV Spectrometry

M-1821
Efavirenz
Lot 308-004-000-A-20110929-RTO

Chromatogram Info:

File Name	: V:\ReIntgtd\intX1031	File Created	: 7/26/2013 4:36:59 PM
Origin	: Acquired, Acquisition started 7/26/2013 4:12:11 PM	Acquired Date	: 7/26/2013 4:32:11 PM
Project	: Test	By	: Administrator
Method	: UnitX-20minrun	By	: Administrator
Description	: UV trace of Efavirenz alone	Modified	: 7/26/2013 4:57 PM
Created	: 7/14/2007 11:01 AM		
Column	:	Detection	: UV 246nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



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Efavirenz
Lot 308-004-000-A-20110929-RTO

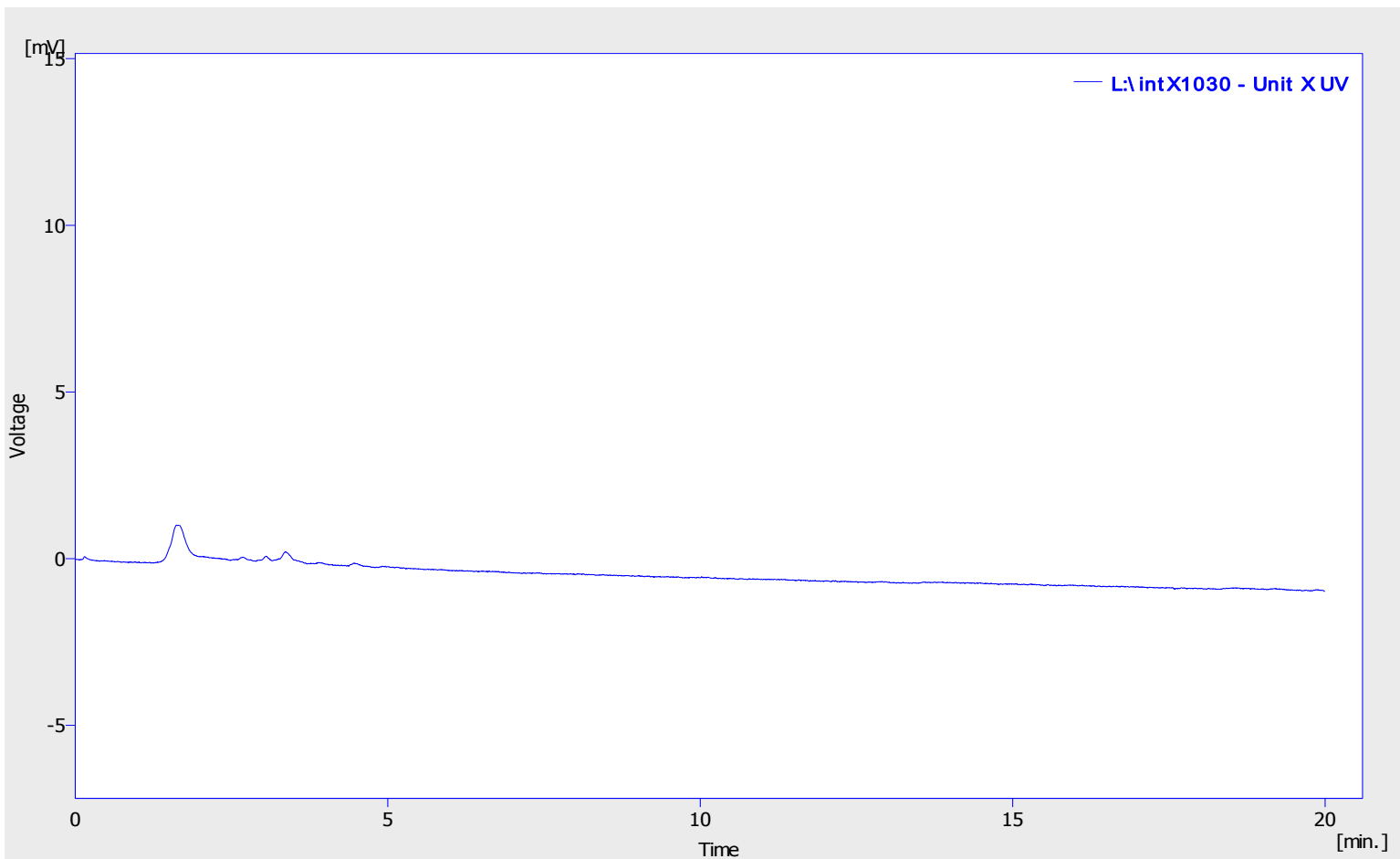
Result Table (Uncal - V:\ReIntgtd\intX1031 - Unit X UV)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Resolution [-]
1	7.450	6107.188	508.715	99.84	99.88	
2	8.470	1.953	0.149	0.03	0.03	3.406
3	9.627	2.245	0.091	0.04	0.02	2.904
4	10.677	5.476	0.386	0.09	0.08	2.353
	Total	6116.862	509.341	100.00	100.00	

M-1821
Efavirenz
Lot 308-004-000-A-20110929-RTO

Chromatogram Info:

File Name	: L:\intX1030	File Created	: 7/26/2013 4:05:00 PM
Origin	: Acquired, Acquisition started 7/26/2013 3:44:43 PM	Acquired Date	: 7/26/2013 4:04:43 PM
Project	: Test	By	: Administrator
Method	: UnitX-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 7/26/2013 5:00 PM
Created	: 7/14/2007 11:01 AM		
Column	:	Detection	: UV 246nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		

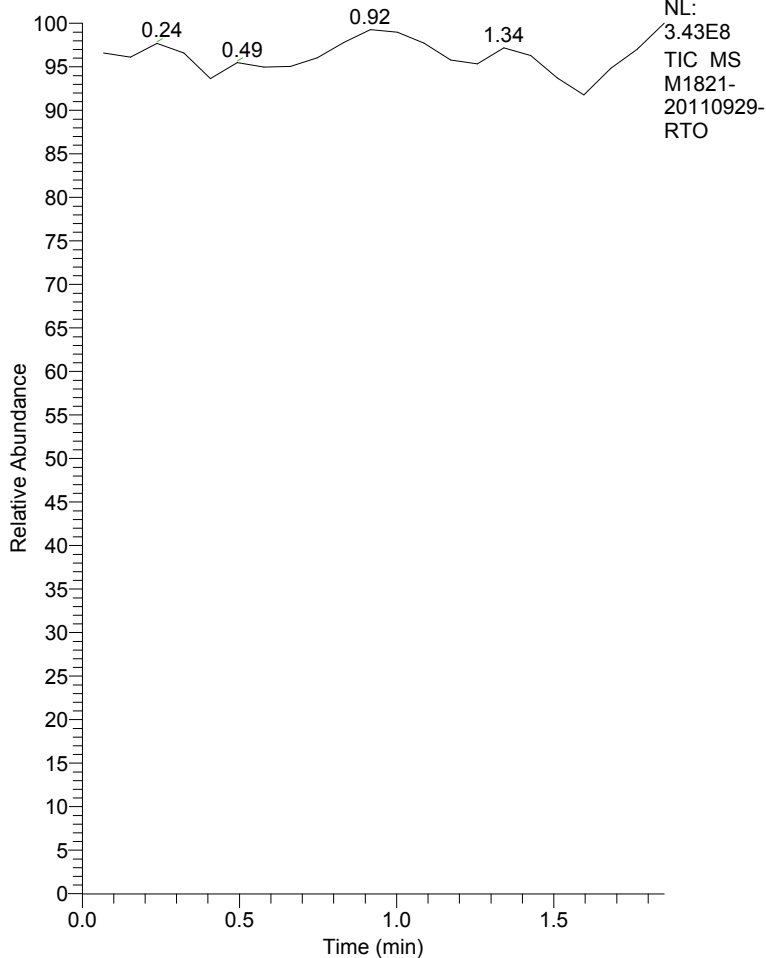


M-1821
Efavirenz
Lot 308-004-000-A-20110929-RTO

Result Table (Uncal - L:\intX1030 - Unit X UV)

Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Resolution [-]
No peak to report					

RT: 0.00 - 1.85



M1821-20110929-RTO#1-22 RT: 0.07-1.85 AV:

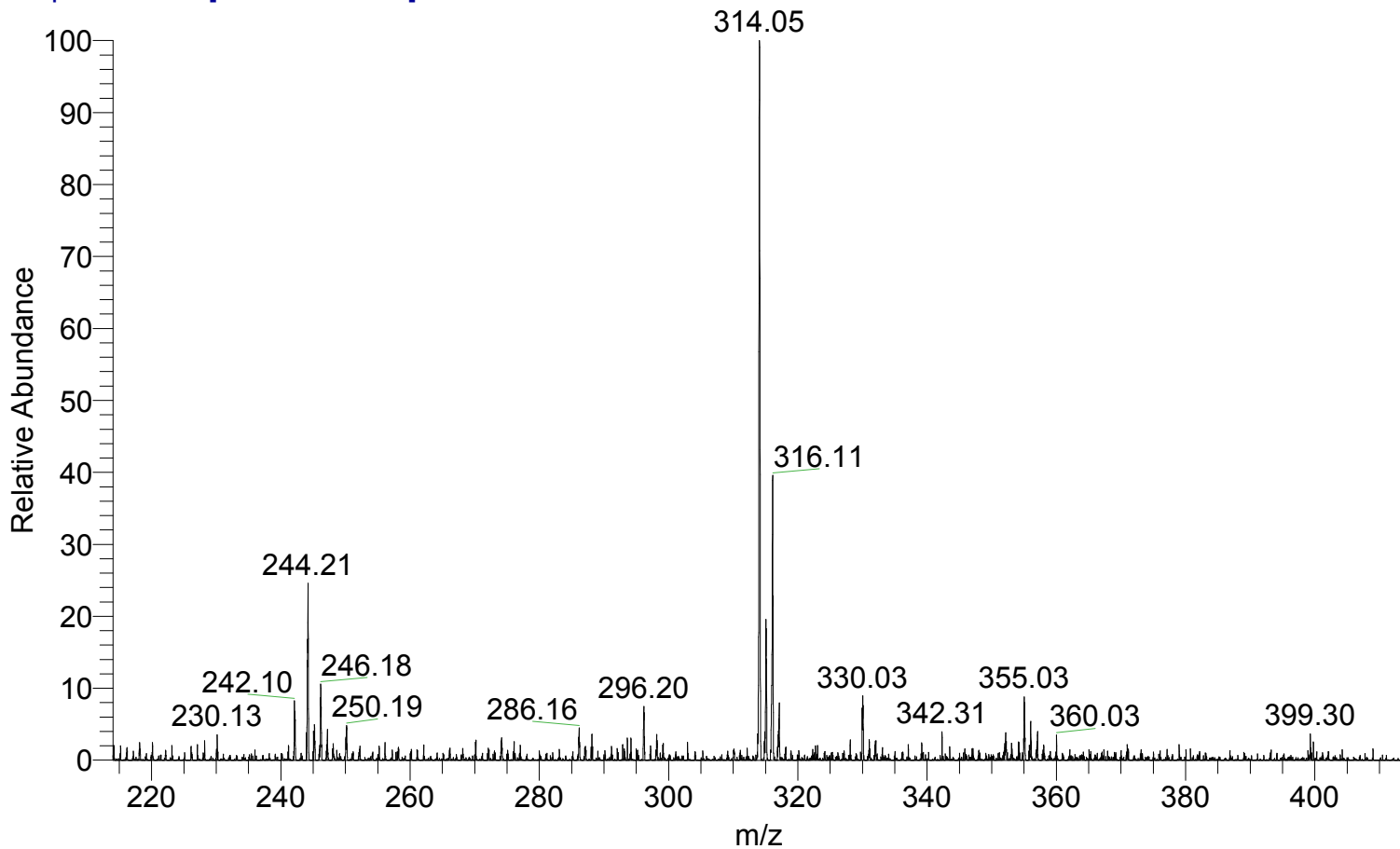
T: - p NSI Z ms [214.00-414.00]

m/z = 306.51-329.64

m/z	Intensity	Relative
312.15	600666.6	0.68
314.06	88413024.0	100.00
315.06	16004786.0	18.10
316.06	30924214.0	34.98
317.07	5981193.5	6.77
318.05	939006.8	1.06
318.98	509743.9	0.58
320.12	586289.3	0.66
321.01	447465.1	0.51
322.41	1356570.0	1.53
323.04	875778.8	0.99
324.15	754027.9	0.85
325.16	1053347.5	1.19
326.13	662731.5	0.75
327.10	798692.6	0.90
328.07	896271.9	1.01
329.07	510561.6	0.58

M1821-20110929-RTO #1-22 RT: 0.07-1.85 AV: 22 NL: 2.35E6

T: - p NSI Z ms [214.00-414.00]



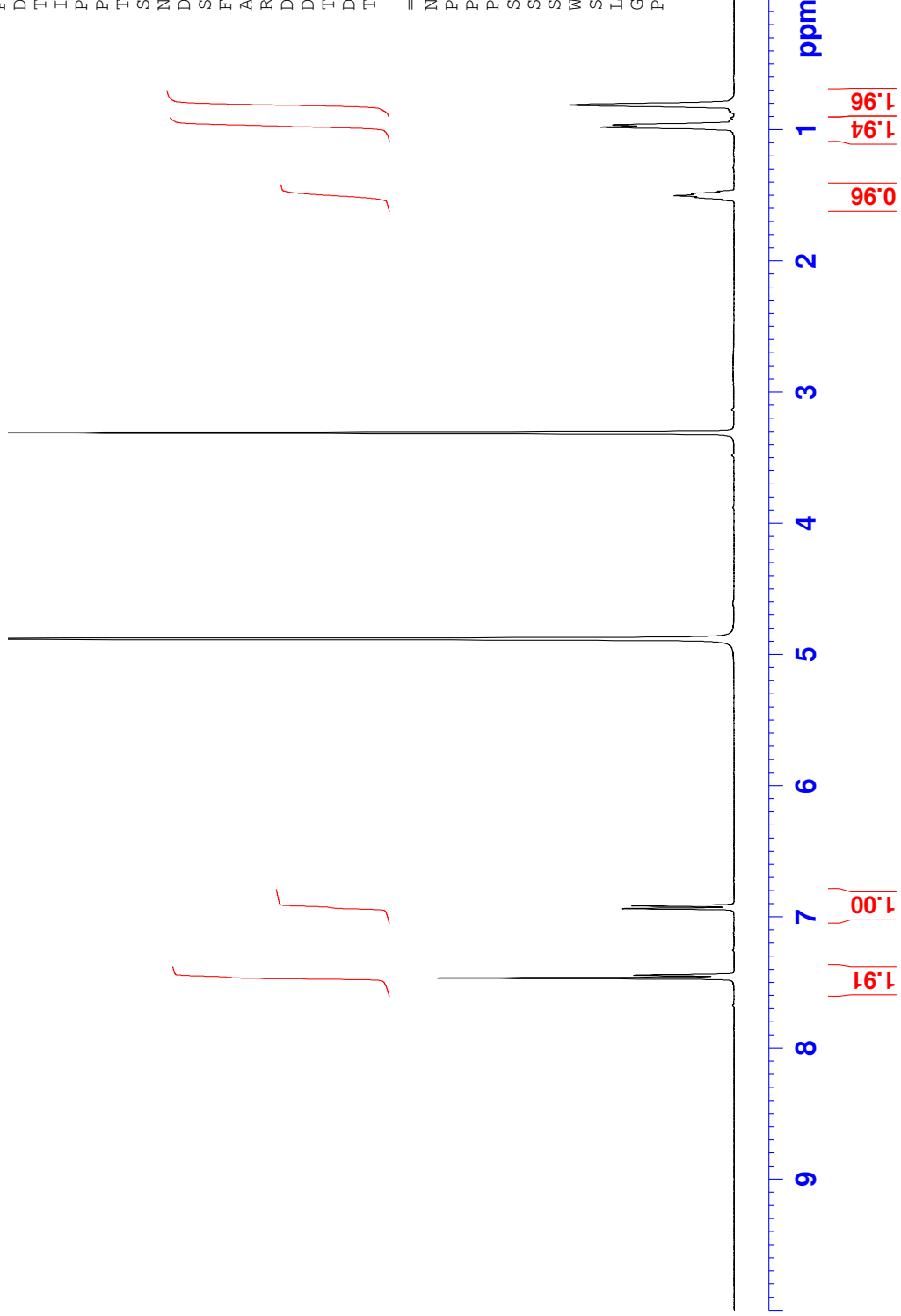
M1821 1H NMR in MeOD
Batch 20110929-RTO



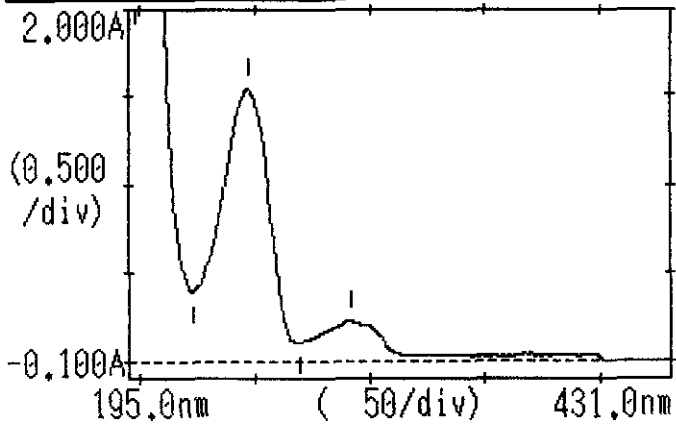
1.511
1.498
1.487
1.466
0.977
0.960
0.886

7.465
7.444
6.936
6.916

NAME M1821-20110929-RTO
EXPNO 1
PROCNO 1
Date_ 20120228
Time 14.49
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 512
DS 0
SWH 7183.908 Hz
FIDRES 0.109618 Hz
AQ 4.5613556 sec
RG 90.5
DW 69.600 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 400.1300091 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



Peak/Valley Detect



Date: 2012/03/01 10:30:30
Measure mode: Abs
Scan range / nm: 431.0 - 195.0
Scan pitch / nm: 1.0
Scan speed: Fast
Slit width / nm: 1.0

Peak
292.00 0.224
247.00 1.541
Valley
270.00 0.106
223.00 0.399