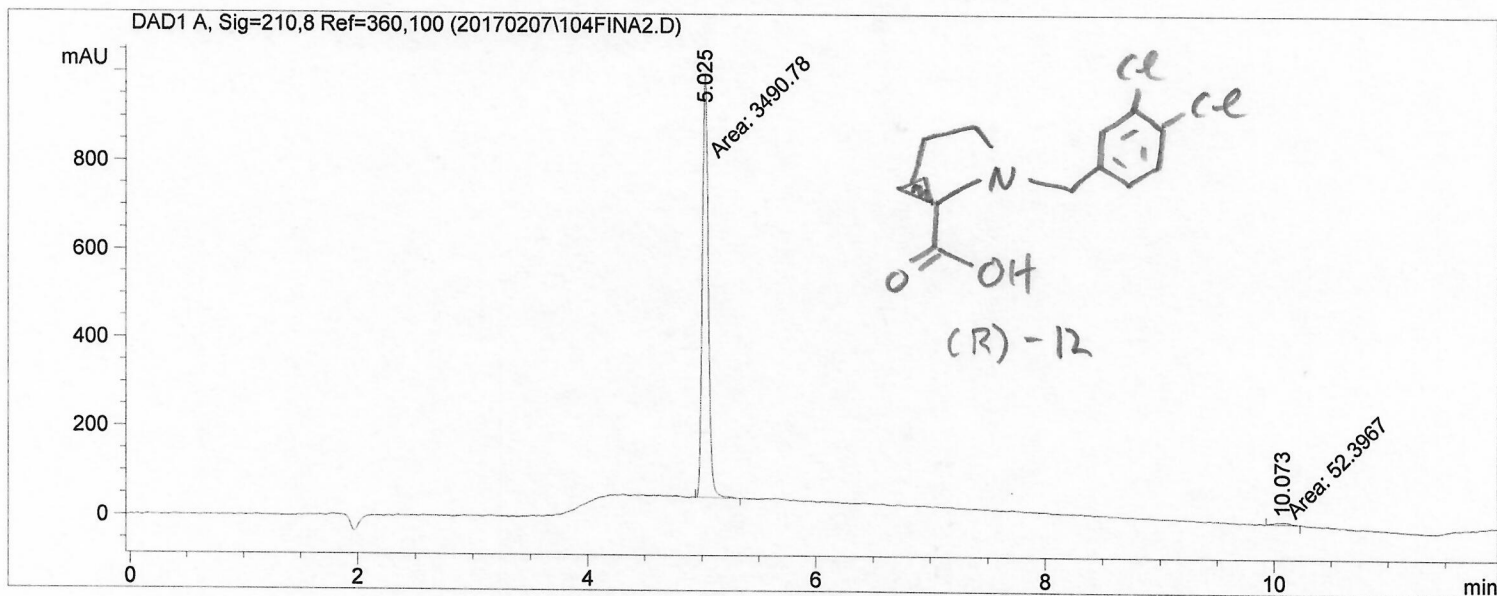


```

=====
Injection Date   : 10/9/2016 7:07:04 AM      Seq. Line :    1
Sample Name     : 104 final                  Location  : Vial 95
Acq. Operator   : SDRC                      Inj       :    1
                                           Inj Volume: 5 µl

Acq. Method    : C:\HPCHEM\1\METHODS\AGRADP.M
Last changed   : 10/9/2016 5:57:27 AM by SDRC
Analysis Method: C:\HPCHEM\1\METHODS\ZOLNIAAP.M
Last changed   : 10/9/2016 11:15:23 PM by SDRC
SOL Ni AA Method, Positive Mass
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By           :      Signal
Multiplier          :      1.0000
Dilution           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=210,8 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.025	MM	0.0605	3490.77954	961.76099	98.5212
2	10.073	MM	0.1599	52.39672	5.46170	1.4788

```
Totals :                      3543.17627  967.22269
```

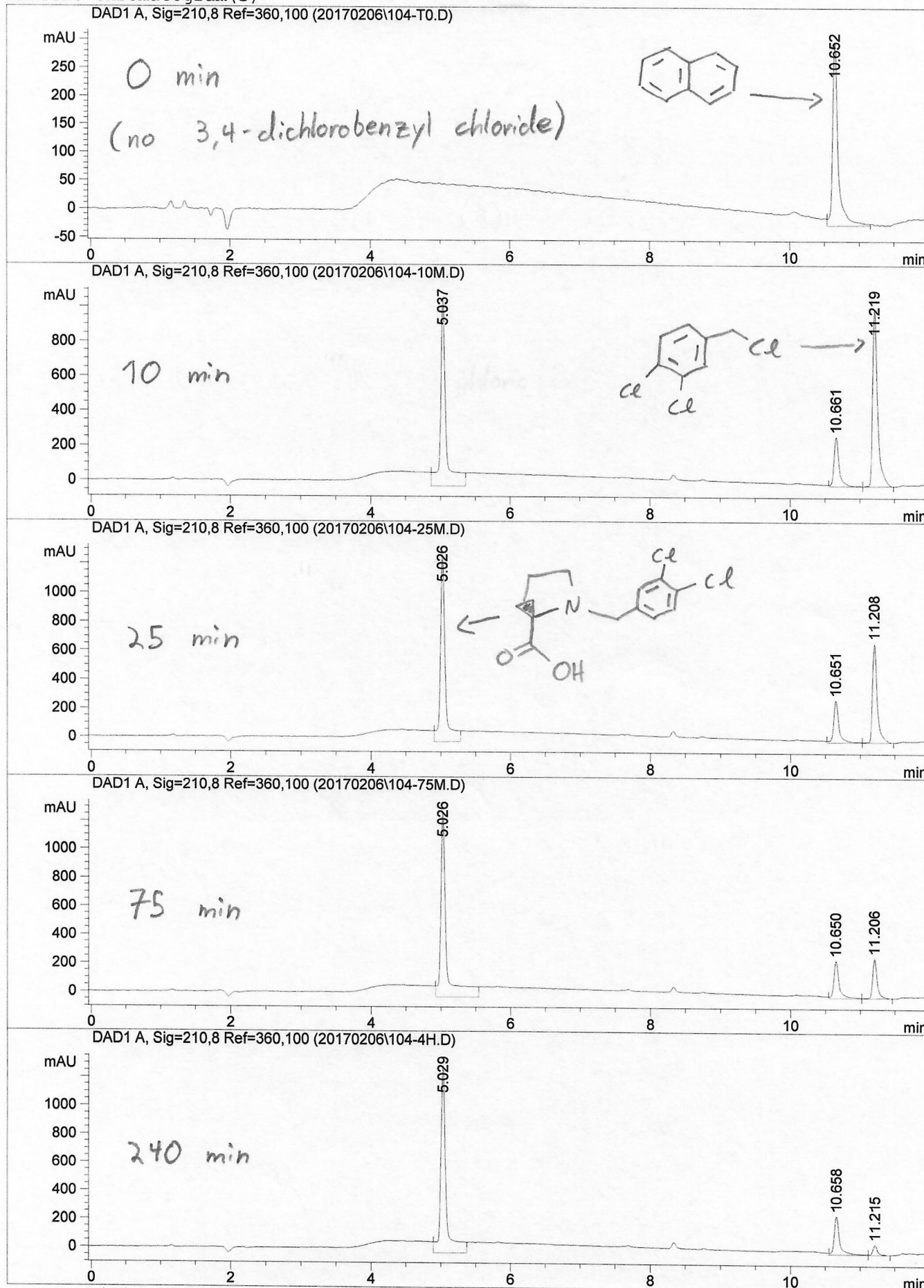
```

=====
*** End of Report ***

```

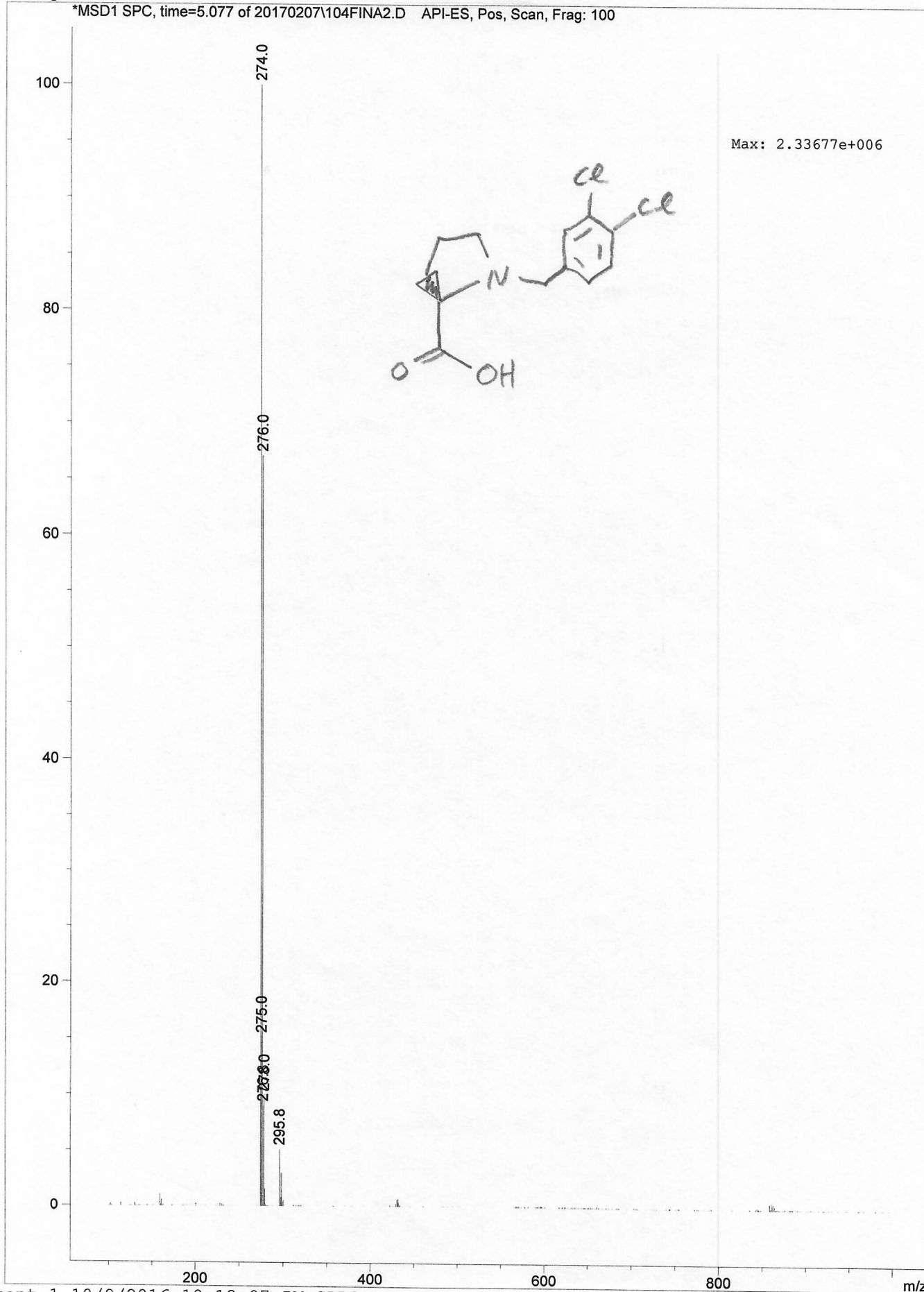
(R)-12 Reaction Course

Current Chromatogram(s)



MS Spectrum

*MSD1 SPC, time=5.077 of 20170207\104FINA2.D API-ES, Pos, Scan, Frag: 100

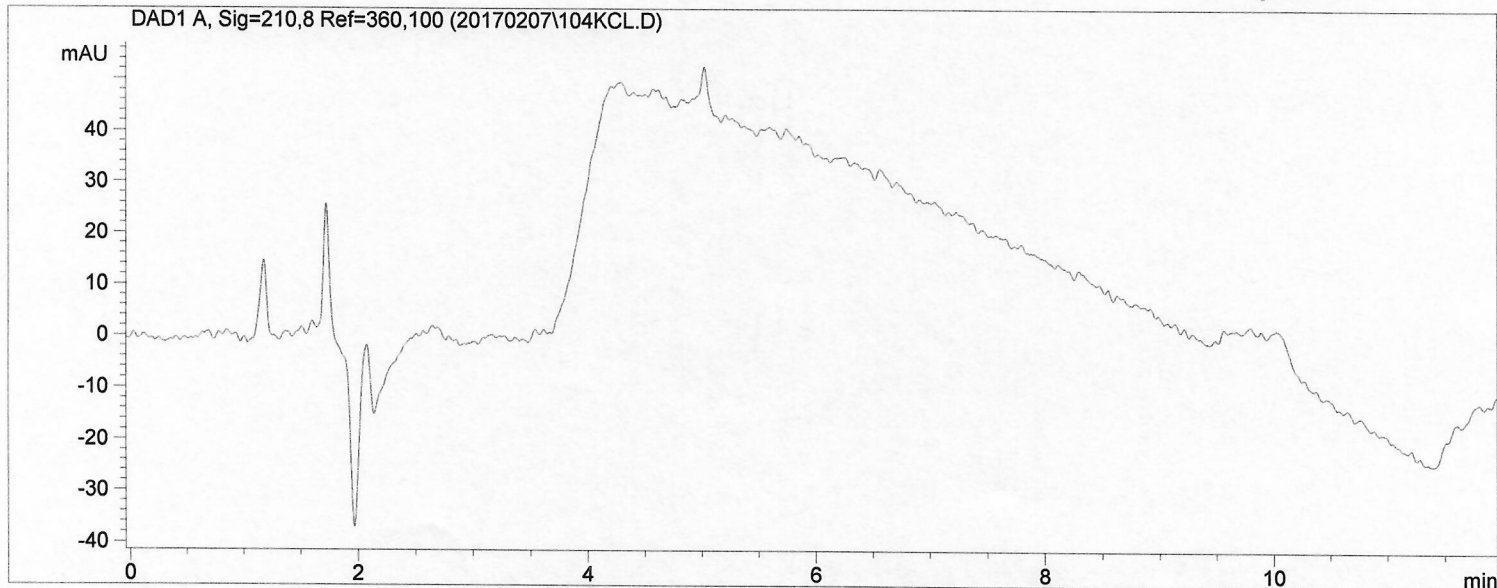


```

=====
Injection Date   : 10/9/2016 5:08:36 AM      Seq. Line   :    1
Sample Name     : 104 KCl 1 mg/mL           Location    : Vial 93
Acq. Operator   : SDRC                      Inj         :    1
                                           Inj Volume  : 5 µl
Acq. Method     : C:\HPCHEM\1\METHODS\AGRADP.M
Last changed    : 10/9/2016 5:57:27 AM by SDRC
Analysis Method : C:\HPCHEM\1\METHODS\ZOLNIAAP.M
Last changed    : 10/9/2016 11:15:23 PM by SDRC
SOL Ni AA Method, Positive Mass
=====

```

*Precipitate in
(R)-72 formation
1 mg/mL*



=====
Area Percent Report
=====

```

Sorted By       :      Signal
Multiplier      :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

No peaks found

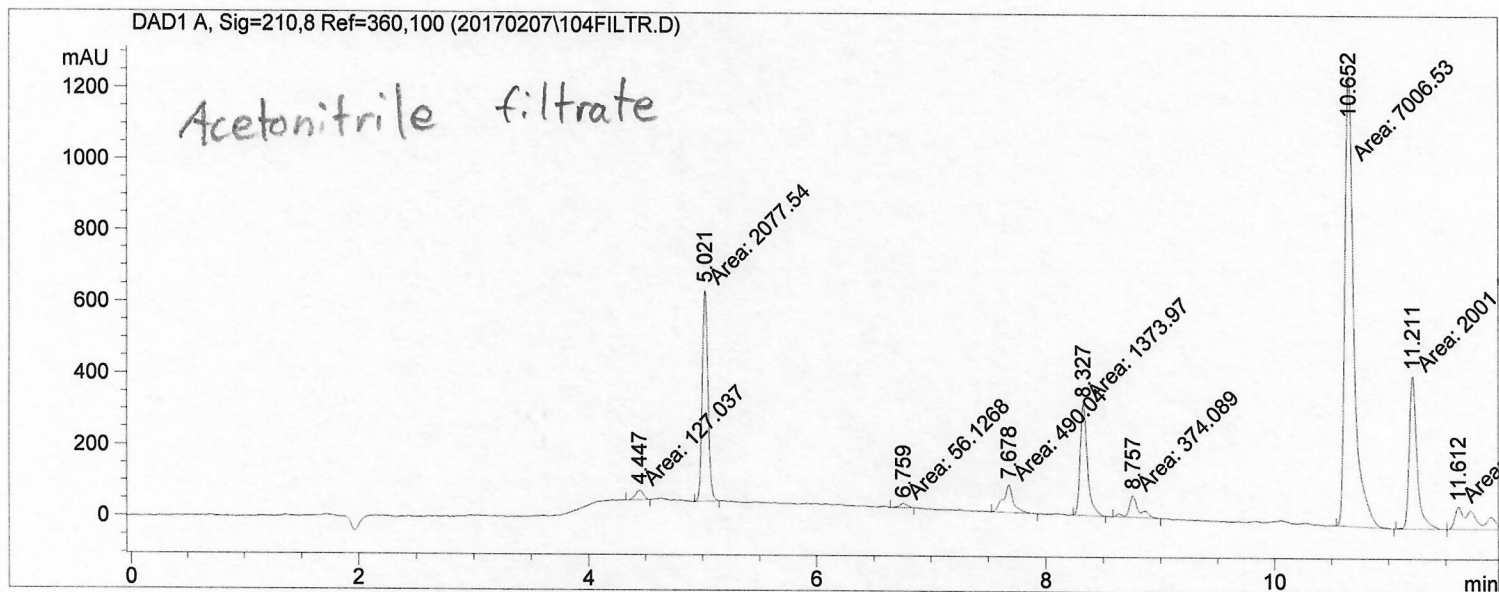
=====
*** End of Report ***
=====

```

=====
Injection Date   : 10/9/2016 5:45:05 AM      Seq. Line :    1
Sample Name     : 104 filtrate 20x          Location  : Vial 94
Acq. Operator   : SDRC                      Inj       :    1
                                           Inj Volume: 5 µl

Acq. Method    : C:\HPCHEM\1\METHODS\AGRADP.M
Last changed   : 10/9/2016 5:57:27 AM by SDRC
Analysis Method: C:\HPCHEM\1\METHODS\ZOLNIAAP.M
Last changed   : 10/9/2016 11:15:23 PM by SDRC
SOL Ni AA Method, Positive Mass
=====

```



```

=====
Area Percent Report
=====

```

```

Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=210,8 Ref=360,100

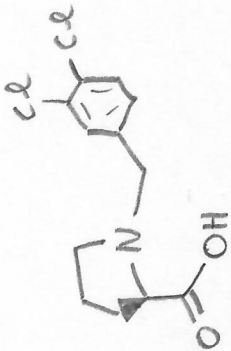
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.447	MM	0.0813	127.03664	26.05042	0.8893
2	5.021	MM	0.0583	2077.54492	593.51038	14.5434
3	6.759	MM	0.0789	56.12676	11.85121	0.3929
4	7.678	MM	0.1043	490.03979	78.28110	3.4304
5	8.327	MM	0.0733	1373.96558	312.57278	9.6182
6	8.757	MM	0.1018	374.08914	61.23238	2.6187
7	10.652	MM	0.0923	7006.53418	1265.51611	49.0479
8	11.211	MM	0.0778	2001.47607	428.71692	14.0109
9	11.612	MM	0.2095	778.28320	61.92008	5.4482

```
Totals :                1.42851e4  2839.65138
```

```

=====
*** End of Report ***

```



(R)-72

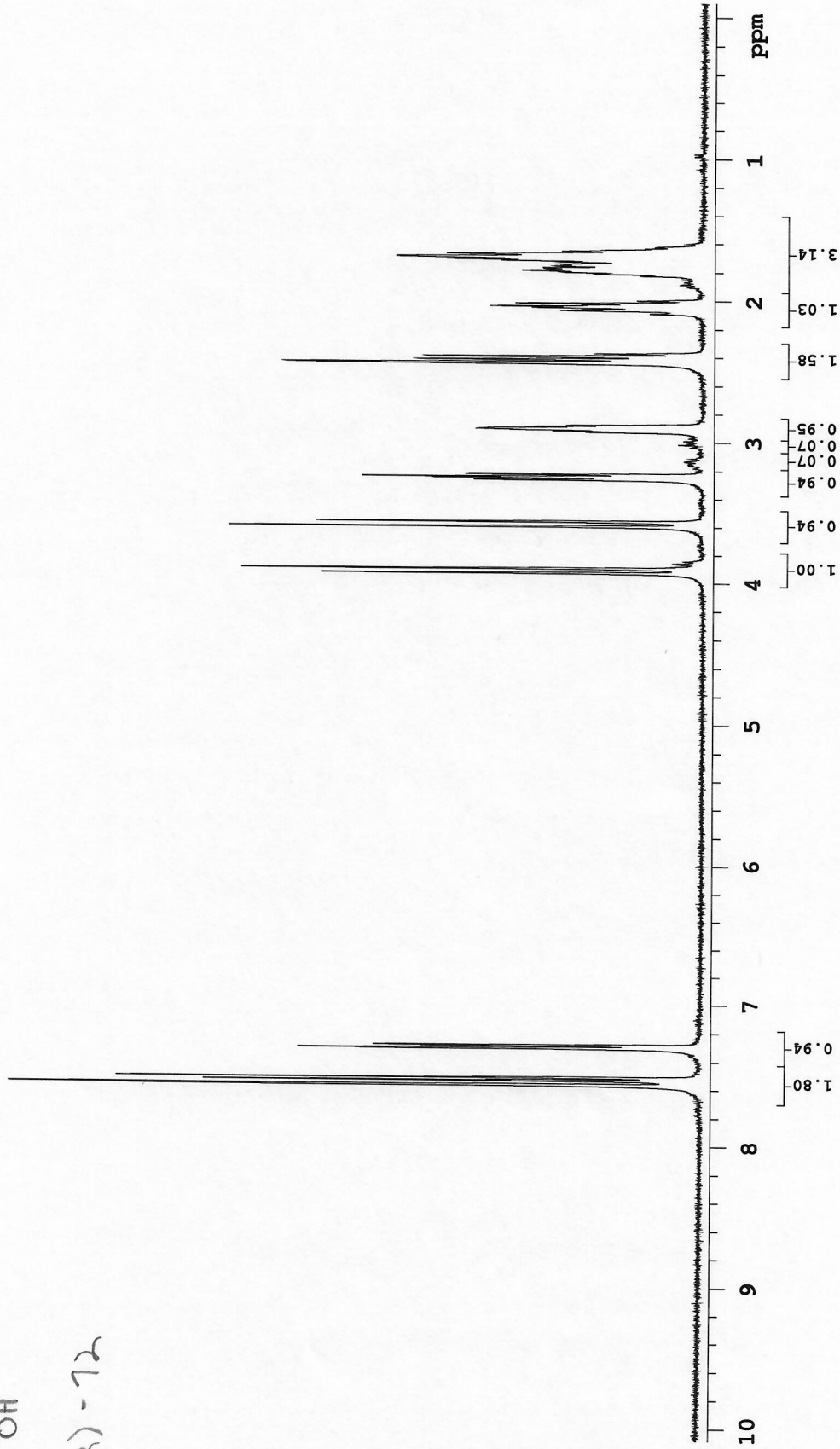
TR-2-104_final

Sample Name TR-2-104_final
Date collected 2017-02-07

Pulse sequence PROTON
Solvent dmsc

Temperature 21
Spectrometer hamarimr-inova400

Study owner walkup
Operator walkup



TR-2-104_final

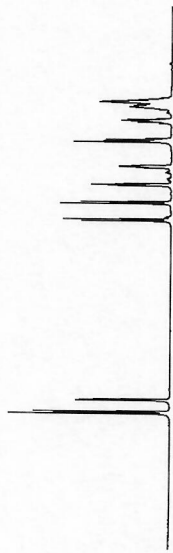
Sample Name TR-2-104_final
Date collected 2017-02-07

Pulse sequence PROTON
Solvent dmso

Temperature 21
Spectrometer hamarimr-inova400

Study owner walkup
Operator walkup

(R) - 72



SAMPLE date Feb 7 2017 solvent dmso

file /home/walkup/vnmrs
vs/data/TR-2-104_final_2
0170207_01/PROTON_01.fid

ACQUISITION

sw 6398.5 at 2.561
np 32768 fb 4000
bs 32 d1 1.000
nt 8 ct 8

temp 21.0 gain 42
spin 20 hst 0.008
pw90 13.200
alpha 10.000

FLAGS il n in n
dp y hs nn

PROCESsing fn not used

DISPLAY sp -40.6
wip 4073.6
rfi 799.8
rfp 0
rp -143.1
lp -76.5

PLOT wc 234
sc 8
vs 179
th 20
ai cdc ph

PRESATURATION n

satmode

PEAK FREQUENCIES(CONTINUED)

index	freq(ppm)	intensity
27	2.05267	27.4737
28	2.0429	34.1261
29	2.02142	30.04
30	1.80169	22.5315
31	1.789	28.9817
32	1.7763	25.6181
33	1.77044	25.6919
34	1.75872	23.8264
35	1.74505	23.1046
36	1.72845	23.2533
37	1.71868	32.4792
38	1.70892	41.193
39	1.69036	49.2401
40	1.67279	41.2159
41	1.65228	22.5888

INTEGRAL VALUES

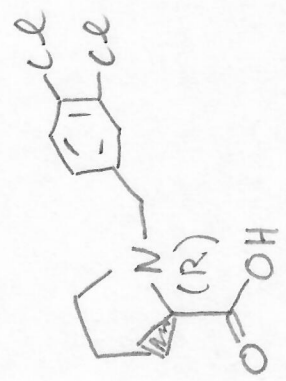
Integral	start(ppm)	end	value
1	10.0849	7.69404	0.600
2	7.69404	7.41426	1.796
3	7.41426	7.17264	0.000
4	7.17264	4.01876	0.941
5	7.17264	3.77713	-0.656
6	4.01876	3.70083	1.000
7	3.77713	3.47192	0.000
8	3.70083	3.37018	0.936
9	3.47192	3.17942	-0.003
10	3.37018	3.17942	0.940
11	3.17942	3.06497	0.000
12	3.17942	3.06497	0.066
13	3.06497	2.97595	0.000
14	3.06497	2.97595	0.066
15	2.97595	2.82334	0.000
16	2.97595	2.82334	0.948
17	2.82334	2.54356	-0.025
18	2.54356	2.28922	1.581
19	2.28922	2.17476	0.001
20	2.17476	1.93313	1.025
21	1.93313	1.93313	0.000
22	1.93313	1.39901	3.143
23	1.39901	-0.101625	-0.231

PEAK FREQUENCIES

index	freq(ppm)	intensity
1	7.57024	91.7929
2	7.56536	110.958
3	7.53801	79.6315
4	7.5302	34.1024
5	7.51751	93.6756
6	7.50969	36.2651
7	7.31047	54.4593
8	7.30657	64.4881
9	7.28997	44.6891
10	7.28606	52.3322
11	3.93353	61.1436
12	3.90032	73.9595
13	3.60052	76.0056
14	3.56634	61.9644
15	3.26653	36.6573
16	3.25189	43.4938
17	3.24505	54.6467
18	3.2304	38.0243
19	2.92474	24.0011
20	2.90716	35.8565
21	2.89349	27.0281
22	2.86372	21.8415
23	2.44036	67.2116
24	2.41888	45.8179
25	2.3974	44.4276
26	2.07318	22.5885

173.69

1701HAMA.358A
TR-12
DMSO, C-13
NUMEGA 3-27-2017



(R)-12

139.37
130.77
130.58
130.29
129.63
128.99

65.14
56.15
52.66
40.01
39.85
39.68
39.51
39.34
39.17
39.01
28.83
28.72
22.80

